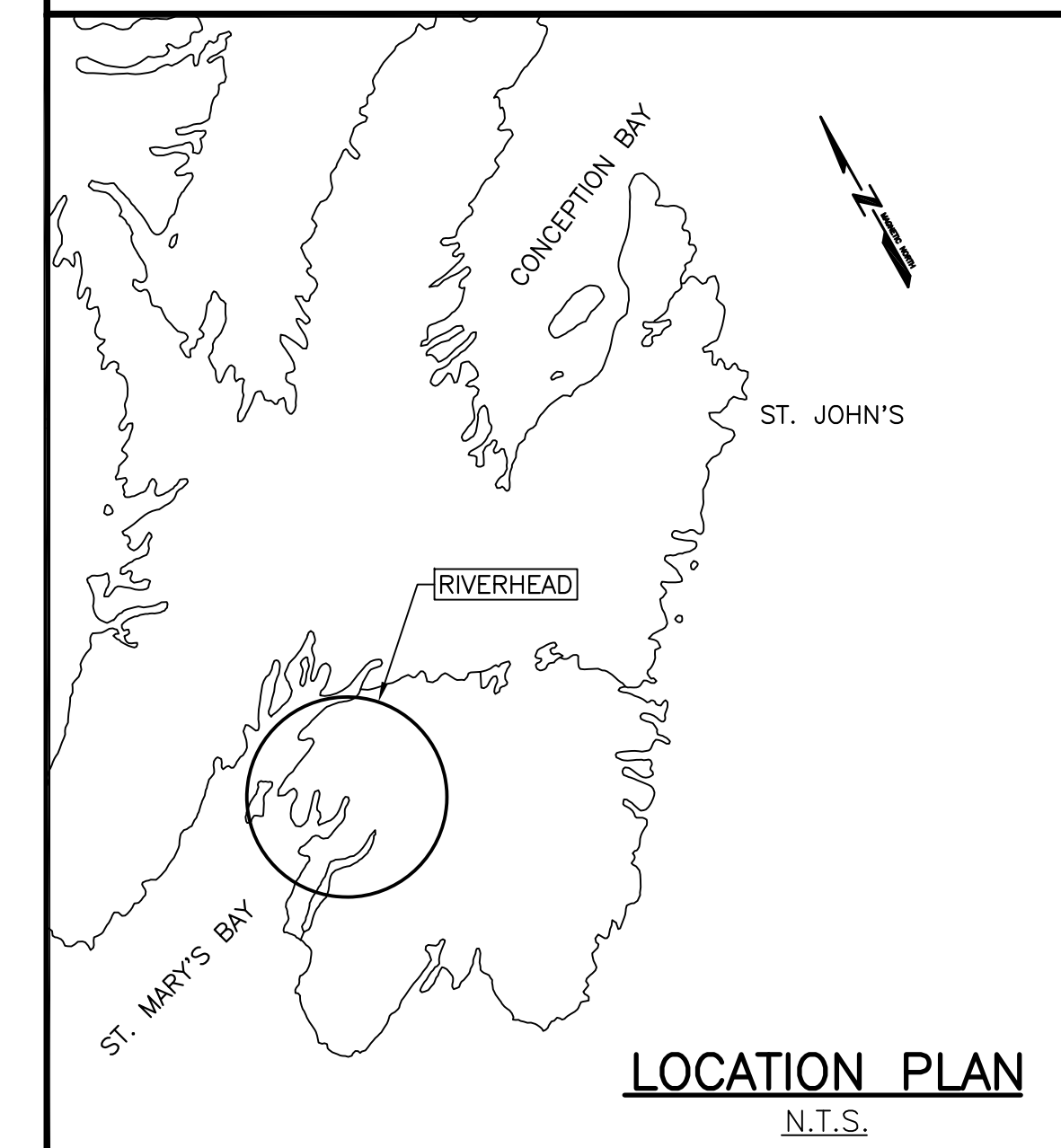
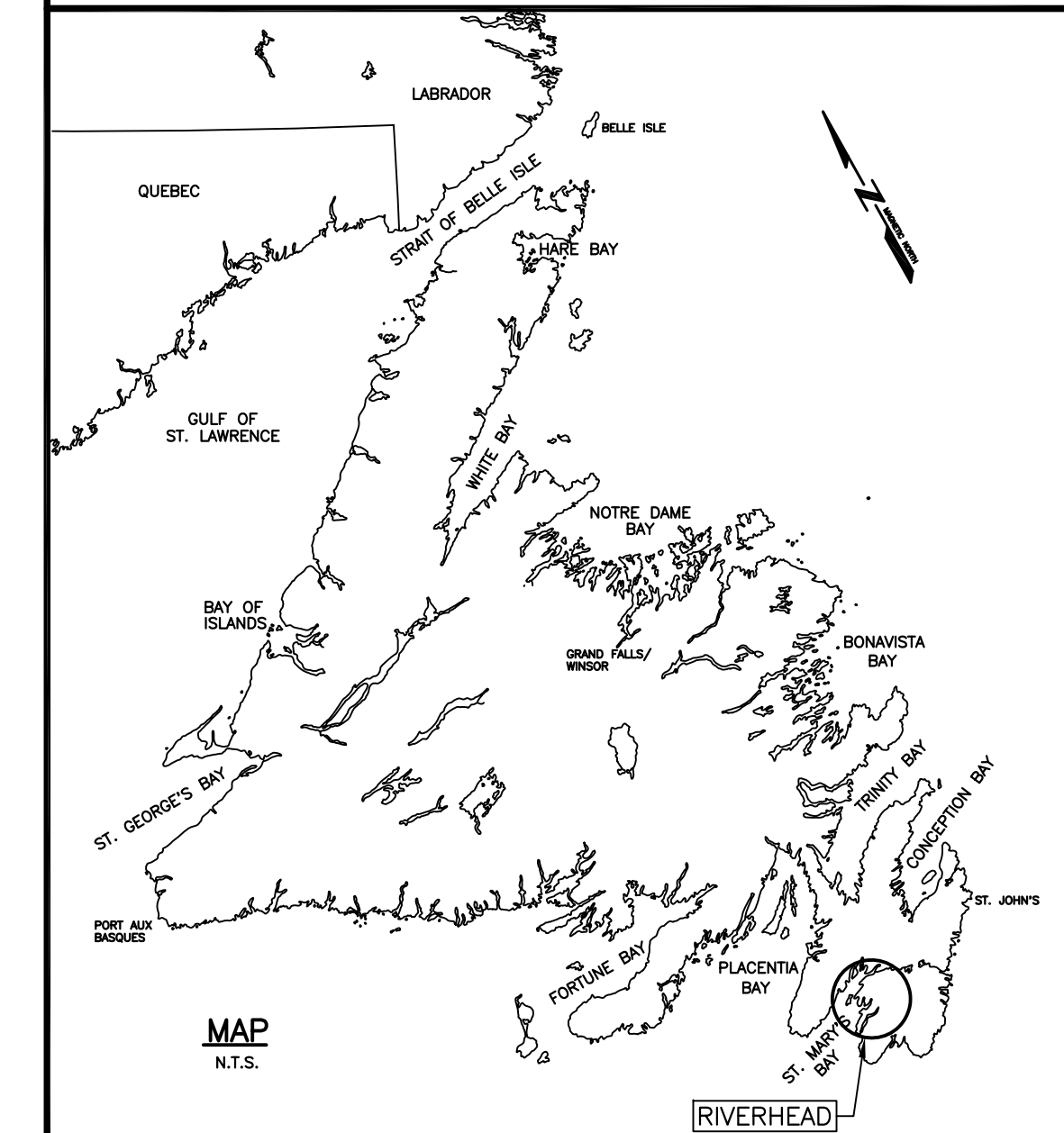




FISHERIES AND OCEANS CANADA

SMALL CRAFT HARBOURS



WHARF CONSTRUCTION RIVERHEAD NEWFOUNDLAND AND LABRADOR

PROJECT No. 723230 ISSUED FOR TENDER

LIST OF DRAWINGS:

C1 OF 5	SOUNDING AND TOPOGRAPHIC SURVEY	E1 OF 4	EXISTING SITE PLAN
C2 OF 5	NEW SITE PLAN	E2 OF 4	NEW SITE PLAN
C3 OF 5	NEW WHARF PLAN AND LAYOUT	E3 OF 4	NEW WHARF PLAN AND ELECTRICAL DETAILS
C4 OF 5	NEW ELEVATIONS AND SECTIONS	E4 OF 4	ELECTRICAL DETAILS
C5 OF 5	DETAILS		



SCALE : 1:300
0m 5m 10m 15m 20m 25m 30m

Plot Scale: PLOT SCALE

SMALL CRAFT HARBOURS



NOTES:
1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

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PERMIT HOLDER
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Permit No. as issued by APNGU, F0282 which is valid for the year 2022.



SURVEY LEGEND

- SYMBOLS**
- ANCHOR BLOCK
 - BOLLARD
 - BOREHOLE
 - BOUNDARY MARKER
 - CATCH BASIN
 - CULVERT
 - DERRICK
 - DISPOSAL
 - DREDGE CONTROL
 - ELECTRICAL OUTLET
 - FIRE HYDRANT
 - FIRE ALARM
 - FISH HANDLING EQUIP.
 - FISH HORN
 - FUEL PUMP
 - H FILE
 - HORIZONTAL CONTROL
 - ICE PLANT
 - INVERT PIPE
 - JIB CRANE
 - FLAG POLE
 - LADDER
 - LIFE RING
 - LIGHT STANDARD
 - MANHOLE
 - MARSH
 - MAST/TOWER
 - NAVIGATION LIGHT
 - OBSERVED BUOY
 - OBSERVED SPAR BUOY
 - PIPE PILE
 - RANGE LIGHT
 - SAFETY POST
 - SEWER OUTFLOW PIPE
 - SON
 - TELEPHONE
 - TELEPHONE POLE
 - TIDE GAUGE/STAFF
 - TREE
 - UTILITY POLE
 - VERTICAL CONTROL
 - WATER TAP/OUTLET
 - WATER VALVE
 - WATER WELL
 - WOOD PILE
- LINE TYPE**
- ARMOUR STONE
 - CL RAILROAD
 - DRAIN PIPE
 - EDGE ROAD / SHOULDER
 - FENCE LINE
 - FLUATING WATERBREAK
 - GUARD RAIL
 - HIGH WATER MARK
 - LOW WATER MARK
 - MARSH OUTLINE
 - PROPERTY BOUNDARY
 - RANGE LIGHT EXTENSION
 - RETAINING WALL
 - RIPRAP
 - TOE OF BANK
 - TREE LINE
 - UNDERGROUND CABLE

SURVEY NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
SURVEY VESSEL ALUMINIUM BOAT
SURVEY DATE(S) SEPTEMBER 05, 2019

SONDAR TYPE: SINGLE TRANSDUCER
SONDAR SETTING: MIN/INST VEL. OF SOUND 1501 m/s
DEPTH GATE USED: N/A. FREQ. OF TRANS. 200 KHZ

POSITIONING SYSTEM USED TRIMBLE R7 GNSS DGPS (WITH OTF)
LAND SURVEY POSITION BY TRIMBLE R7 GNSS DGPS (WITH OTF)

DATA TAPE/DISC(S) USED
CAD DRAWING FILE(S):

OFFICE PROCESSOR EDDIE BEARNS
DATE OF PROCESSING OCTOBER 2019

MODE OF PLOTTING LEAST OF MINIMUM DEPTHS
MATRIX CELL WIDTH X LENGTH
REDUCTION OF MATRIX CELLS

CONTROL POINTS:

PL. NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
83C3436	308367.450	5204546.918	+27.54m	C.I. BRASS PLAQUE SET IN CONC. CYLINDER
PWC 1-2003	308117.109	5204146.713	+3.15 m	NAIL, RANGEMET IN DECK
PWC 2-2008	308117.319	5204121.770	+3.29 m	X-CUT IN TOP OF STEEL CATCH BASIN
BM 89F128	308529.211	5202589.985	+6.366 m	GEODETIC BRONZE TABLET SET IN CONCRETE BRIDGE

ALL SOUNDINGS & ELEVATIONS IN METRES.

ALL SOUNDINGS & ELEVATIONS REFERRED TO GEODETIC BM 89F128 ELEV.+6.366 m (ELEV. ADJUSTED TO CHART DATUM BY ADDING 1.28 TO GEODETIC ELEV.) (SEE GEODETIC BENCH MARK BOOK DESCRIPTIONS FOR A LOCATION OF BM.)

SOUNDINGS TAKEN USING NAVISOUND 210 ECHO SONDEUR AND POSITIONED BY TRIMBLE R7 GNSS DIFFERENTIAL GPS POSITIONING SYSTEM ON SEPTEMBER 05, 2019 BY PWGSC SURVEY CREW.

COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 22, USING THE NORTH AMERICAN DATUM OF 1983(NAD83).

SOUNDINGS WERE REDUCED BY DIGITRACE & RE-CHECKED FROM SOUNDING CHARTS BEFORE BEING CORRECTED FOR TIDE & BAR CHECK CORRECTION.

SOUNDINGS WERE REDUCED USING HYPACK MAX VER. 2013J.A.
SPEED OF SOUND WAS OBTAINED USING A DIGIBAR-PRO VELOCIMETER.

ALL FIELD NOTES ARE IN RIVERHEAD ST. MARY'S BOOK #94.

revision	date
C	ISSUED FOR TENDER 1/28/22
B	ISSUED FOR 99% REVIEW 2/13/20
A	ISSUED FOR REVIEW 12/18/19

WHARF CONSTRUCTION
RIVERHEAD, NL

SOUNDING AND
TOPOGRAPHIC SURVEY

designed N.H. concu
date JANUARY 28, 2022
drawn P.H. dessine
date JANUARY 28, 2022
approved
Tender Paul Curran Submission
DFO Project Manager
project number 723230 no. du projet
drawing no. C1 no. du dessin

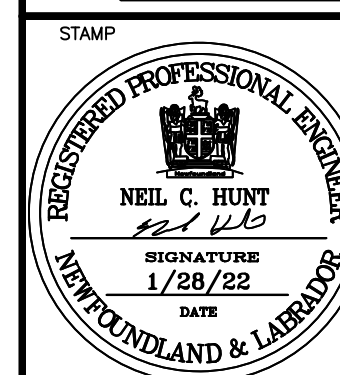
SMALL CRAFT HARBOURS



- NOTES:
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 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

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A	ISSUED FOR REVIEW	12/18/19
revisions		date
project		project

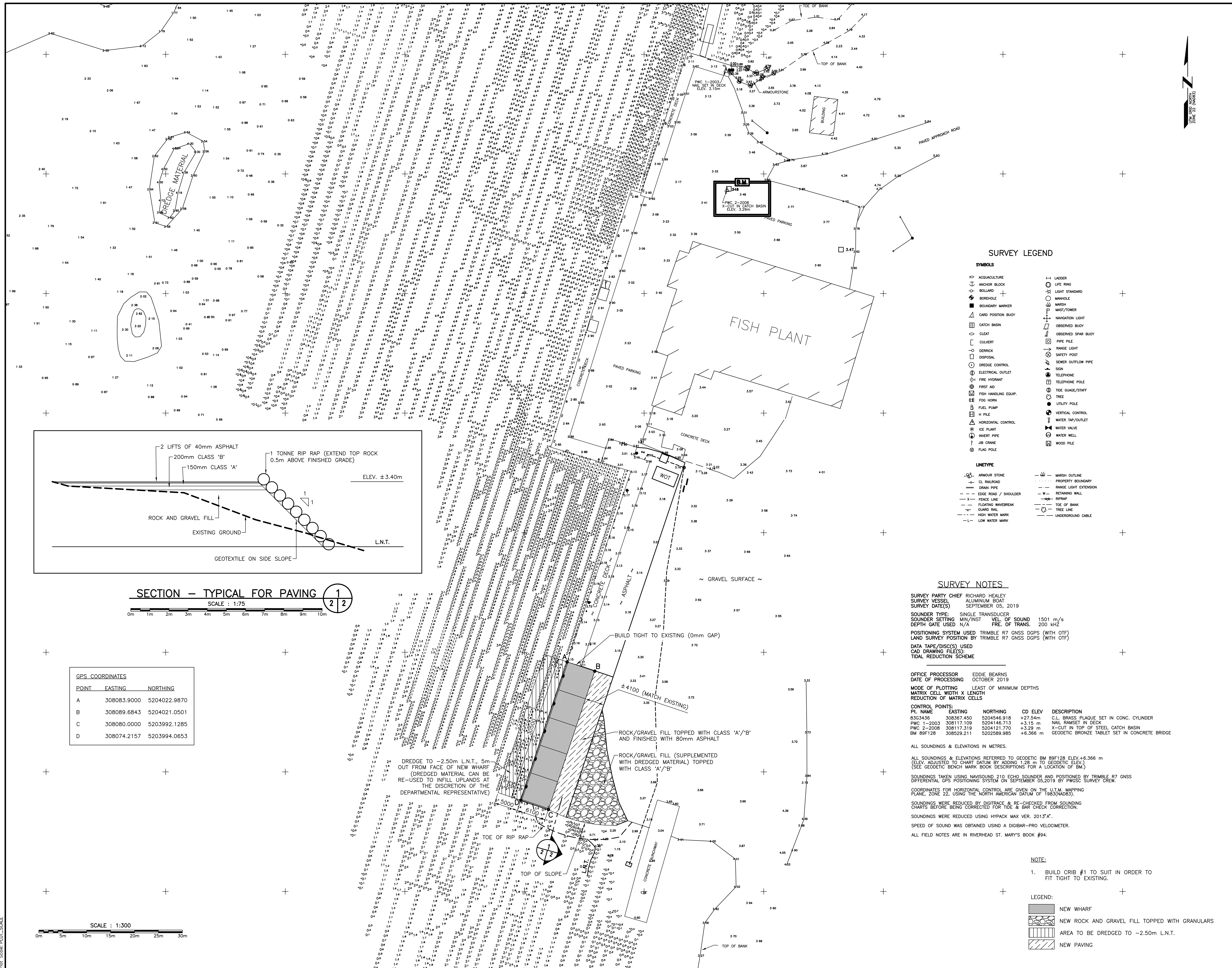
WHARF CONSTRUCTION

RIVERHEAD, NL

drawing no. desin

NEW SITE PLAN

designed N.H.	concu
date JANUARY 28, 2022	
drawn P.H.	desin
date JANUARY 28, 2022	
approved	approve
Tender <i>Paul Curran</i>	Submission
DFO Project Manager	
project number 723230	no. du projet
drawing no. C2	no. du desin



SURVEY LEGEND

- SYMBOLS**
- ANCHOR BLOCK
 - BOLLARD
 - BOREHOLE
 - BOUNDARY MARKER
 - CATCH BASIN
 - CLEAT
 - CULVERT
 - DERRICK
 - DISPOSAL
 - DREDGE CONTROL
 - ELECTRICAL OUTLET
 - FIRE HYDRANT
 - FIRST AID
 - FISH HANDLING EQUIP.
 - FOG HORN
 - FUEL PUMP
 - H FILE
 - HORIZONTAL CONTROL
 - ICE PLANT
 - INVERT PIPE
 - JIB CRANE
 - FLAG POLE
 - LADDER
 - LIFE RING
 - LIGHT STANDARD
 - MANHOLE
 - MARSH
 - MAST/TOWER
 - NAVIGATION LIGHT
 - OBSERVED BUOY
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 - PIPE FILE
 - RANGE LIGHT
 - SAFETY POST
 - SEWER OUTFLOW PIPE
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 - WATER WELL
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SURVEY VESSEL ALUMINIUM BOAT
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SOUNDER SETTING MIN/INST VEL. OF SOUND 1501 m/s
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POSITIONING SYSTEM USED TRIMBLE R7 GNSS DGPS (WITH OTF)
LAND SURVEY POSITION BY TRIMBLE R7 GNSS DGPS (WITH OTF)
DATA TAPE/DISC(S) USED
CAD DRAWING FILE(S):
TIDAL REDUCTION SCHEME

OFFICE PROCESSOR EDDIE BEARNS
DATE OF PROCESSING OCTOBER 2019
MODE OF PLOTTING LEAST OF MINIMUM DEPTHS
MATRIX CELL WIDTH X LENGTH
REDUCTION OF MATRIX CELLS

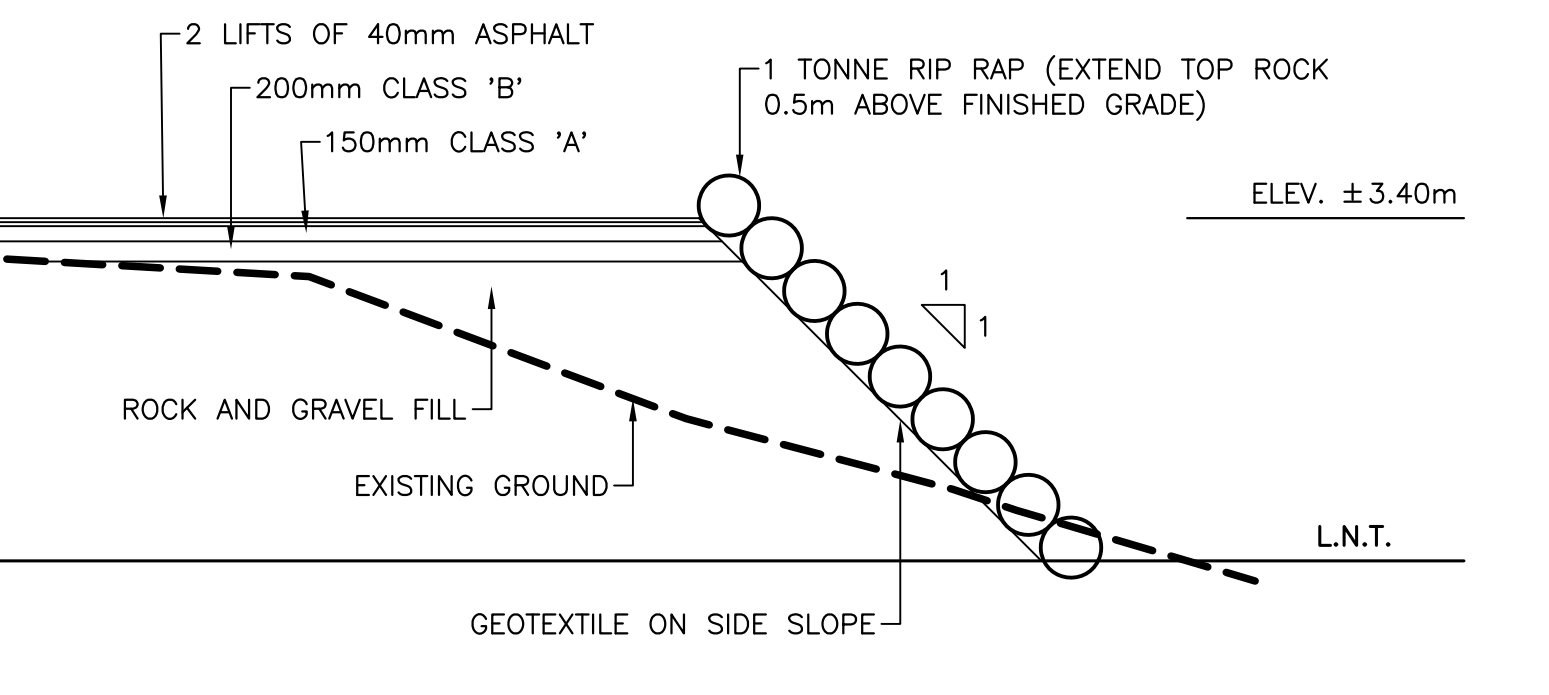
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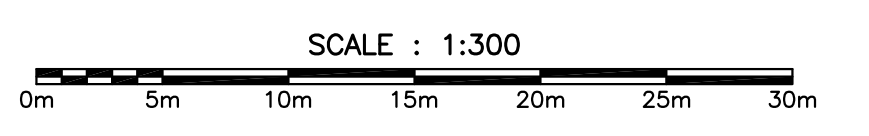
- NOTE:
1. BUILD CRIB #1 TO SUIT IN ORDER TO FIT TIGHT TO EXISTING.

- LEGEND:
- NEW WHARF
 - NEW ROCK AND GRAVEL FILL TOPPED WITH GRANULARS
 - AREA TO BE DREDGED TO -2.50m L.N.T.
 - NEW PAVING



GPS COORDINATES

POINT	EASTING	NORTHING
A	308083.9000	5204022.9870
B	308089.6843	5204021.0501
C	308080.0000	5203992.1285
D	308074.2157	5203994.0653



SMALL CRAFT HARBOURS



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A	ISSUED FOR REVIEW	12/18/19
revisions		date
project		project

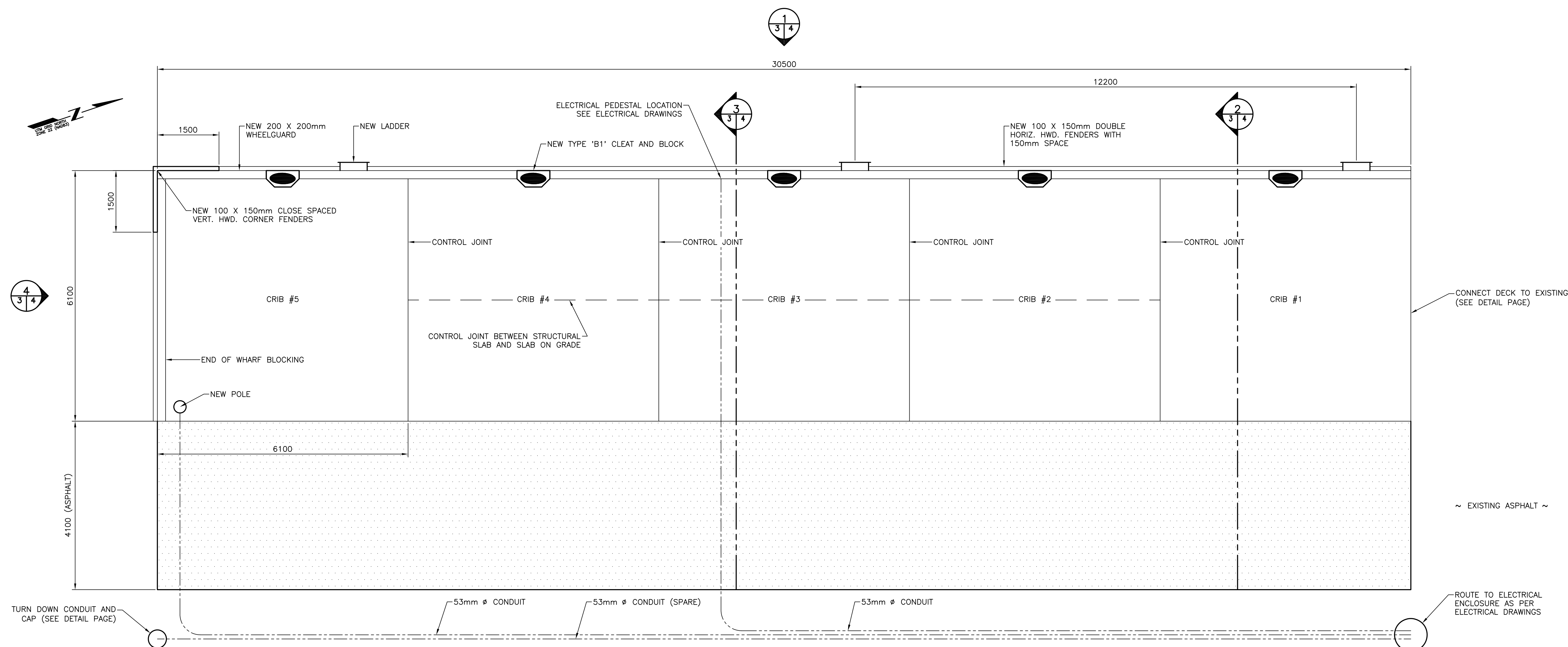
WHARF CONSTRUCTION
 RIVERHEAD, NL

NEW WHARF PLAN
 AND LAYOUT

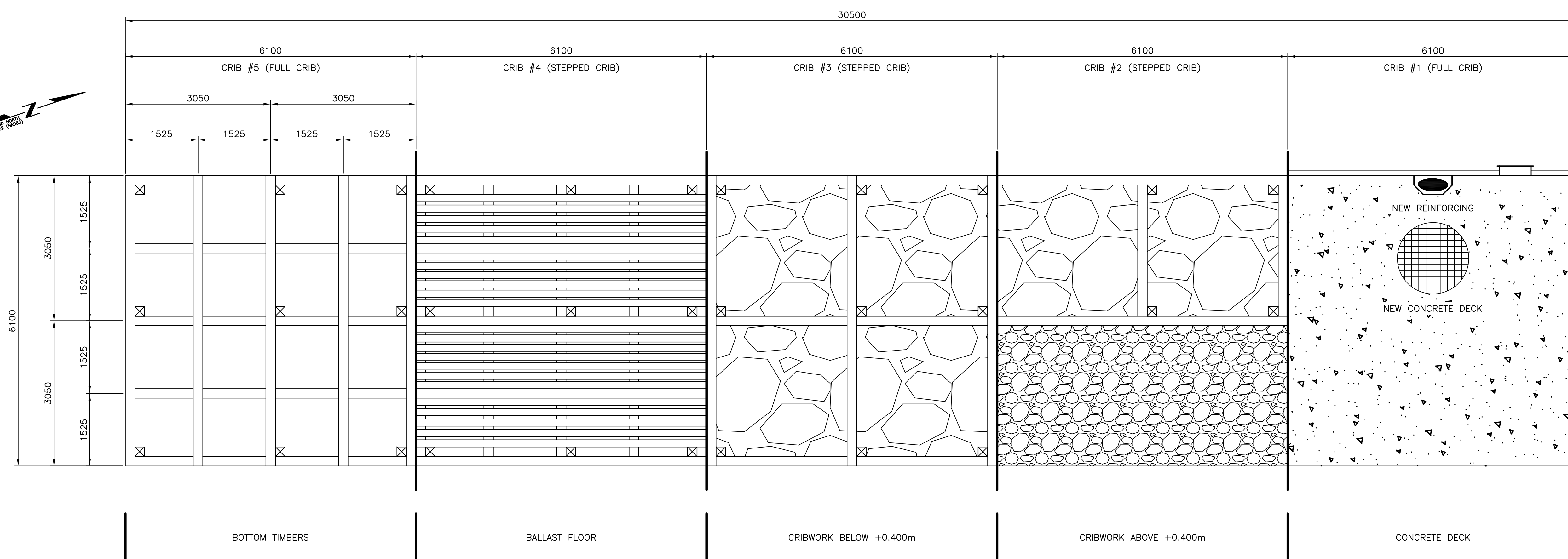
designed N.H. concu
 date JANUARY 28, 2022
 drawn P.H. dessine
 date JANUARY 28, 2022
 approved approve

Tender *Paul Curran* Submission
 DFO Project Manager
 project number 723230 no. du projet

drawing no. C3 no. du dessin



NEW WHARF PLAN
 SCALE : 1:50

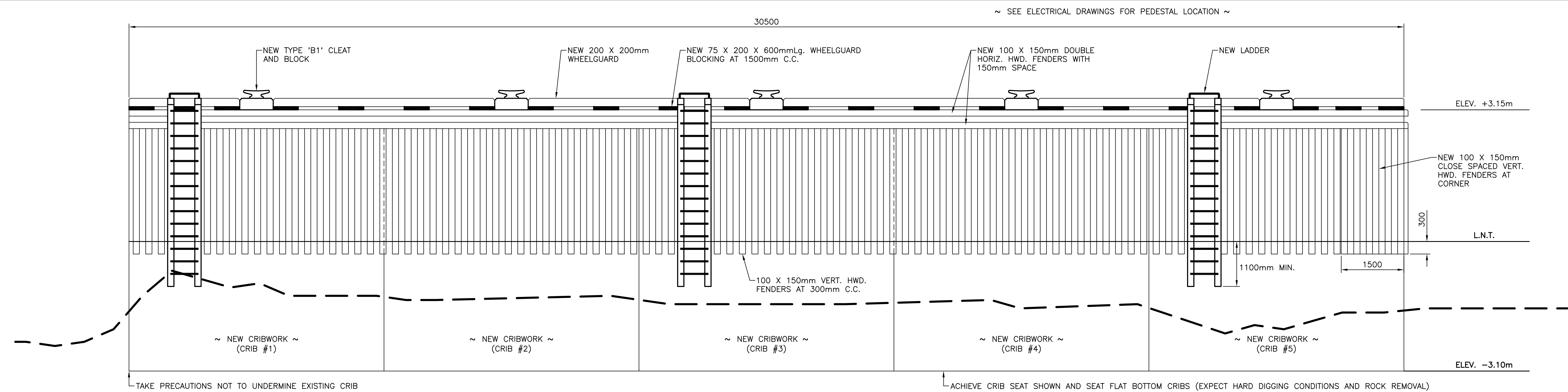
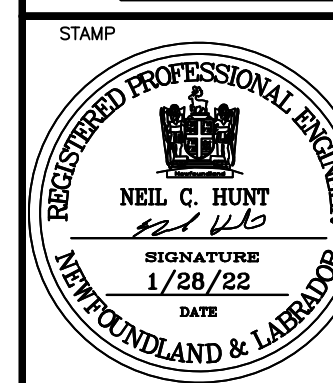


NEW WHARF LAYOUT
 SCALE : 1:50

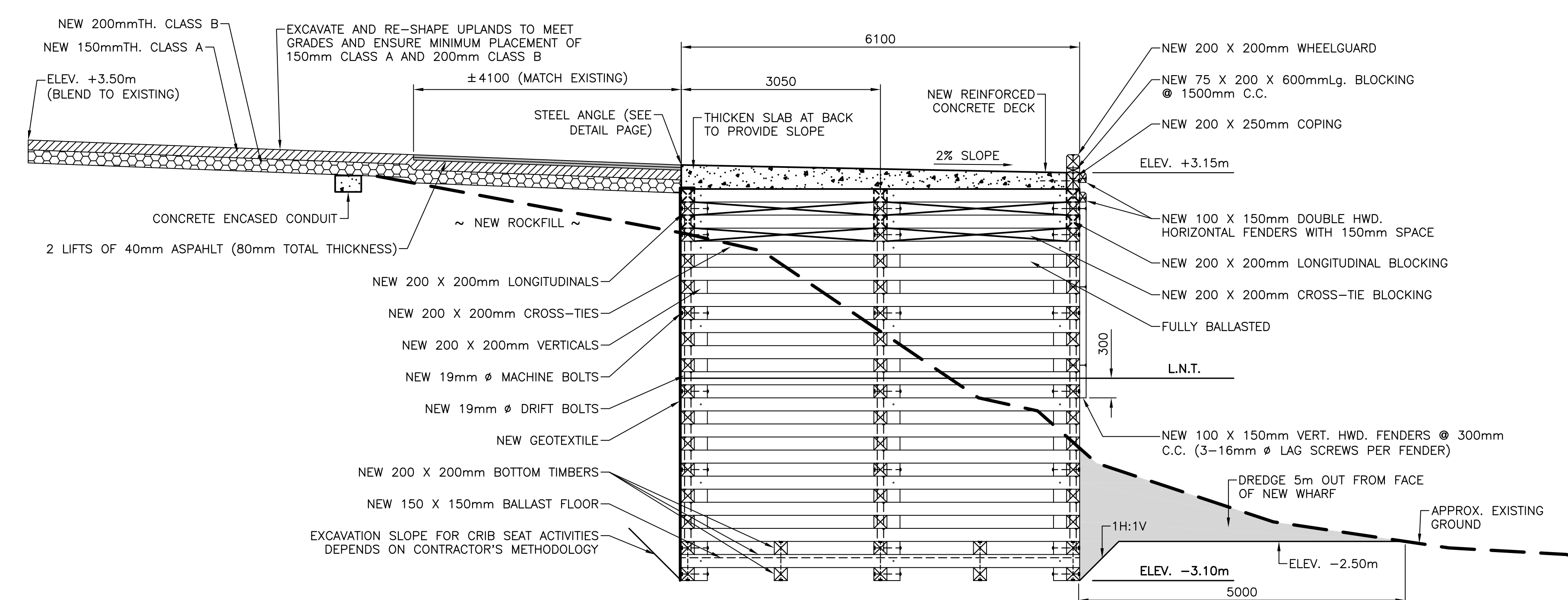


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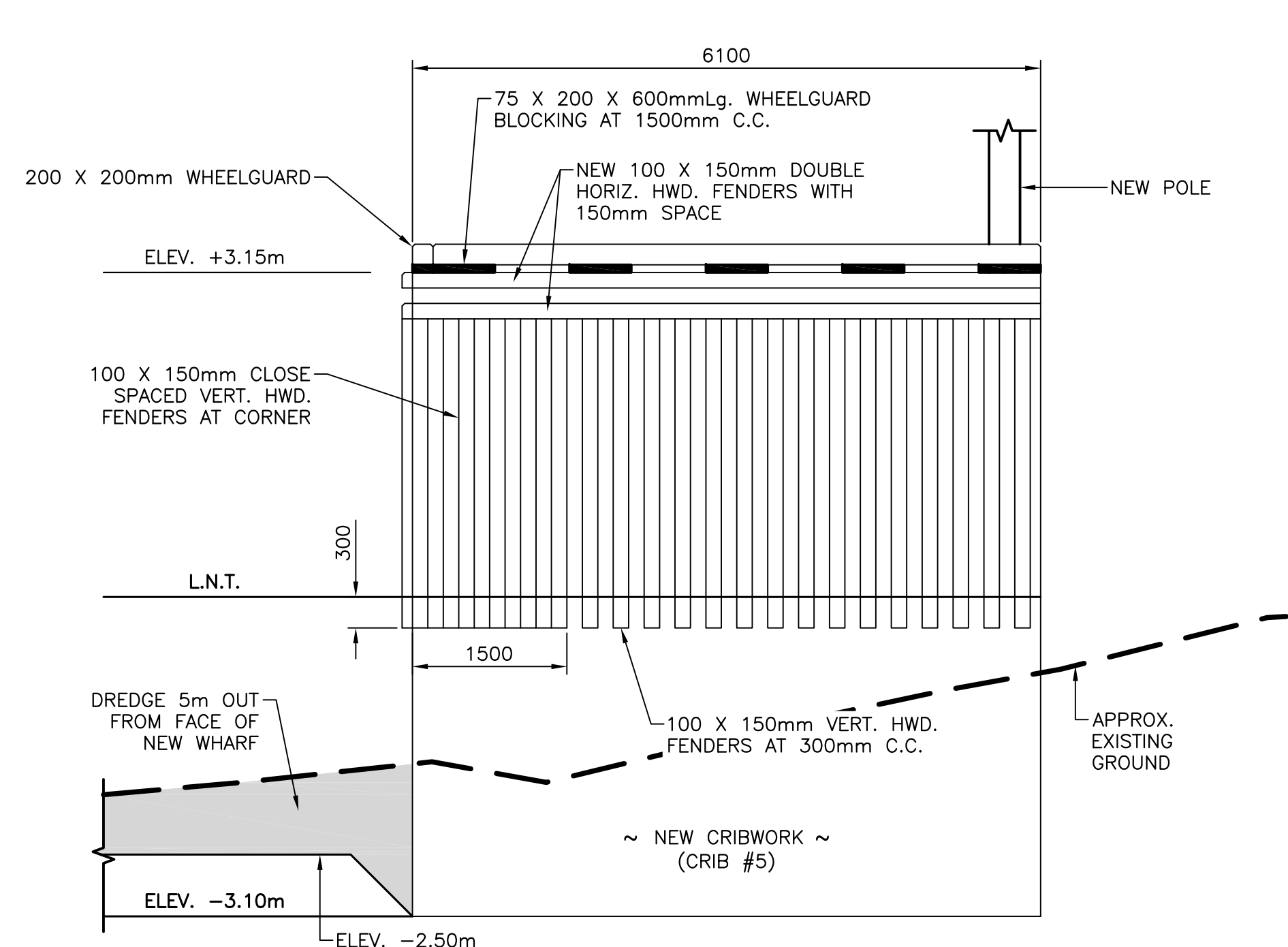
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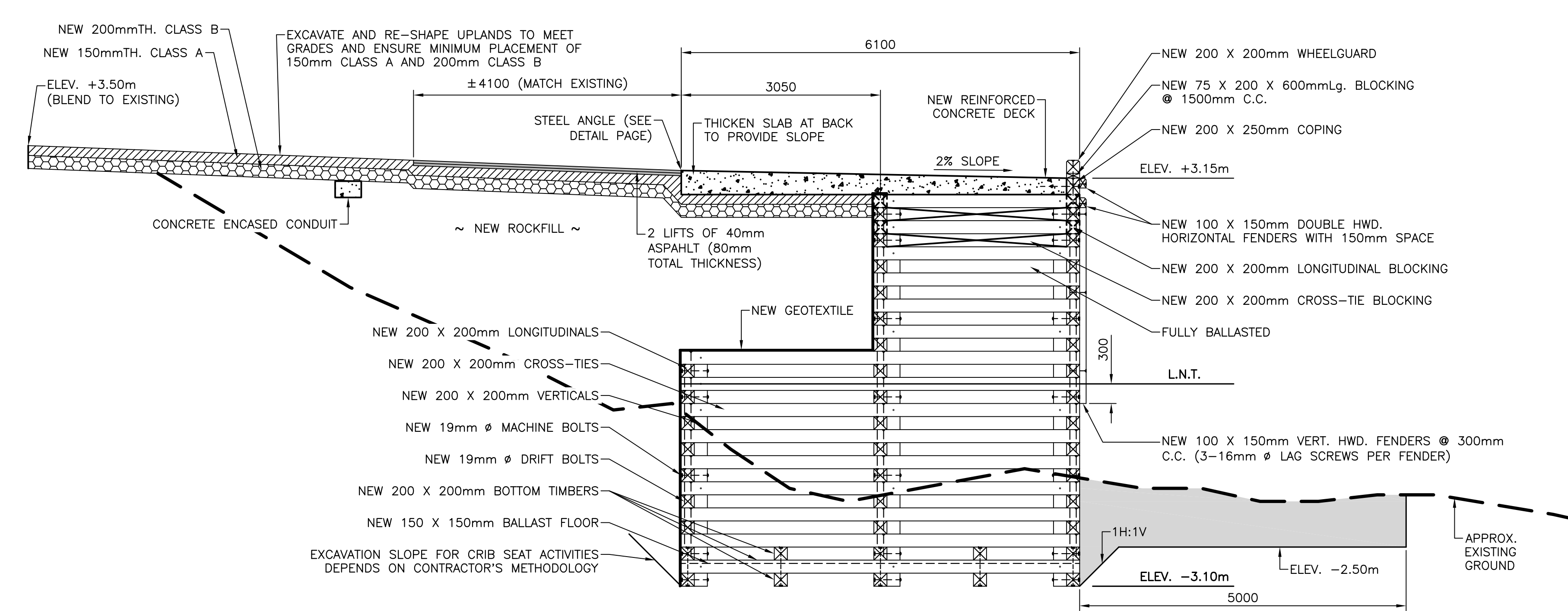
ELEVATION
 SCALE: 1:50
 1
 3 4



SECTION - CRIBS #1 AND #5
 SCALE: 1:50
 2
 3 4



ELEVATION
 SCALE: 1:50
 4
 3 4



SECTION - CRIBS #2, #3, #4
 SCALE: 1:50
 3
 3 4

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A	ISSUED FOR REVIEW	12/18/19
revisions		date
project		project

WHARF CONSTRUCTION
 RIVERHEAD, NL

NEW ELEVATIONS
 AND SECTIONS

designed N.H.	concu
date JANUARY 28, 2022	
drawn P.H.	dessine
date JANUARY 28, 2022	
approved	approve

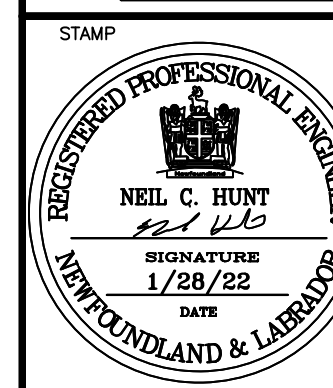
Tender Paul Curran Submission
 DFO Project Manager
 project number 723230 no. du projet
 drawing no. C4 no. du dessin

SMALL CRAFT HARBOURS



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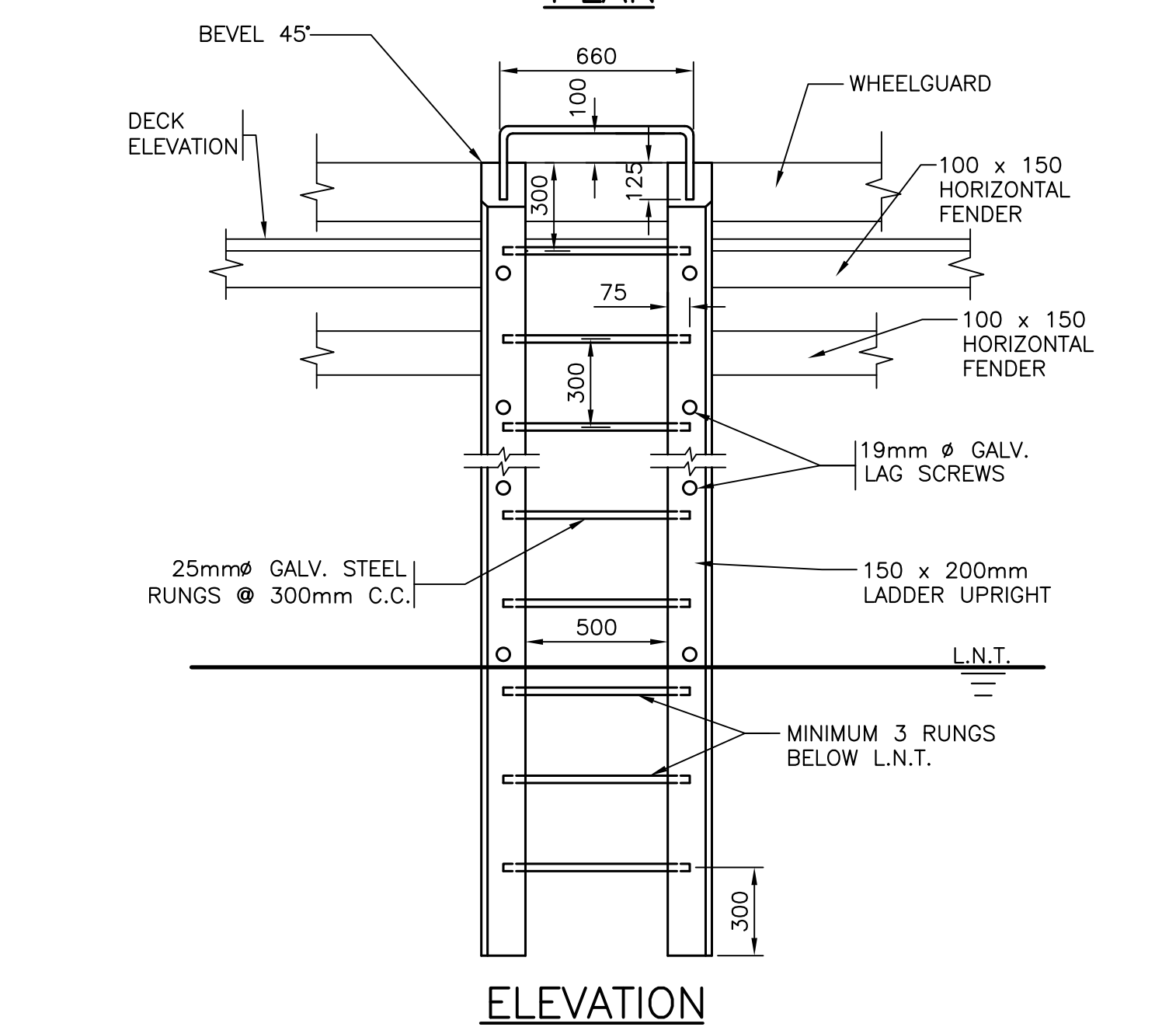
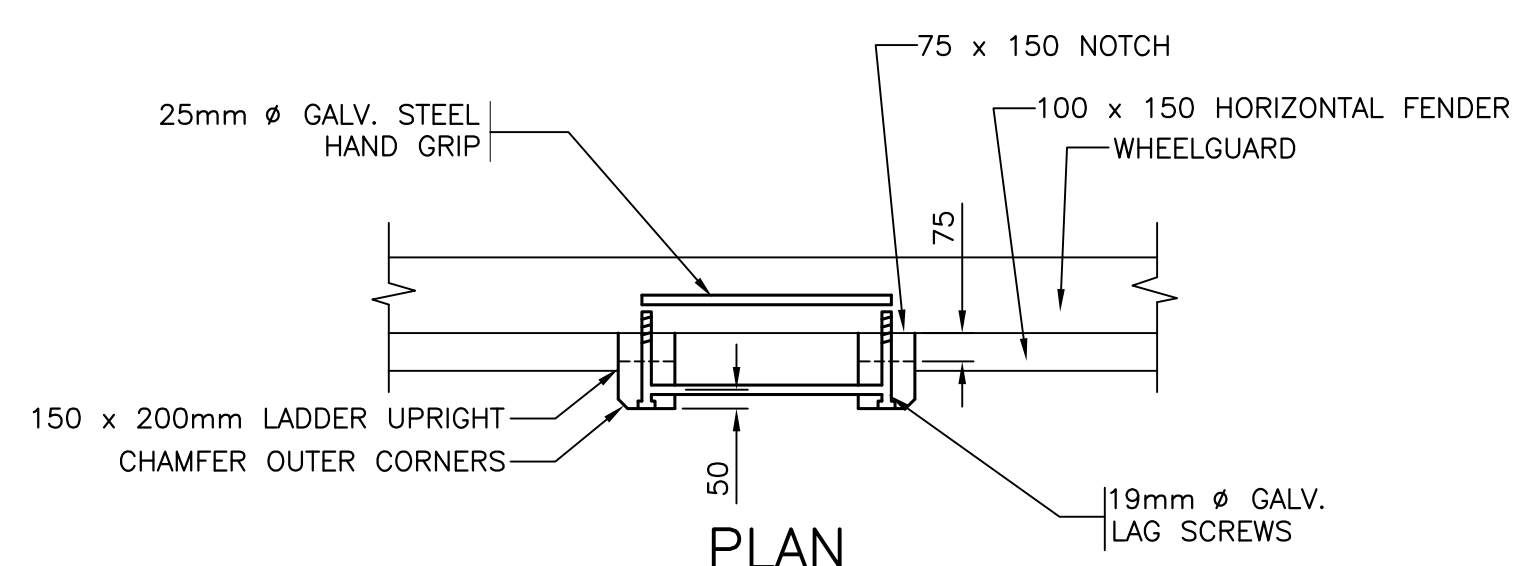


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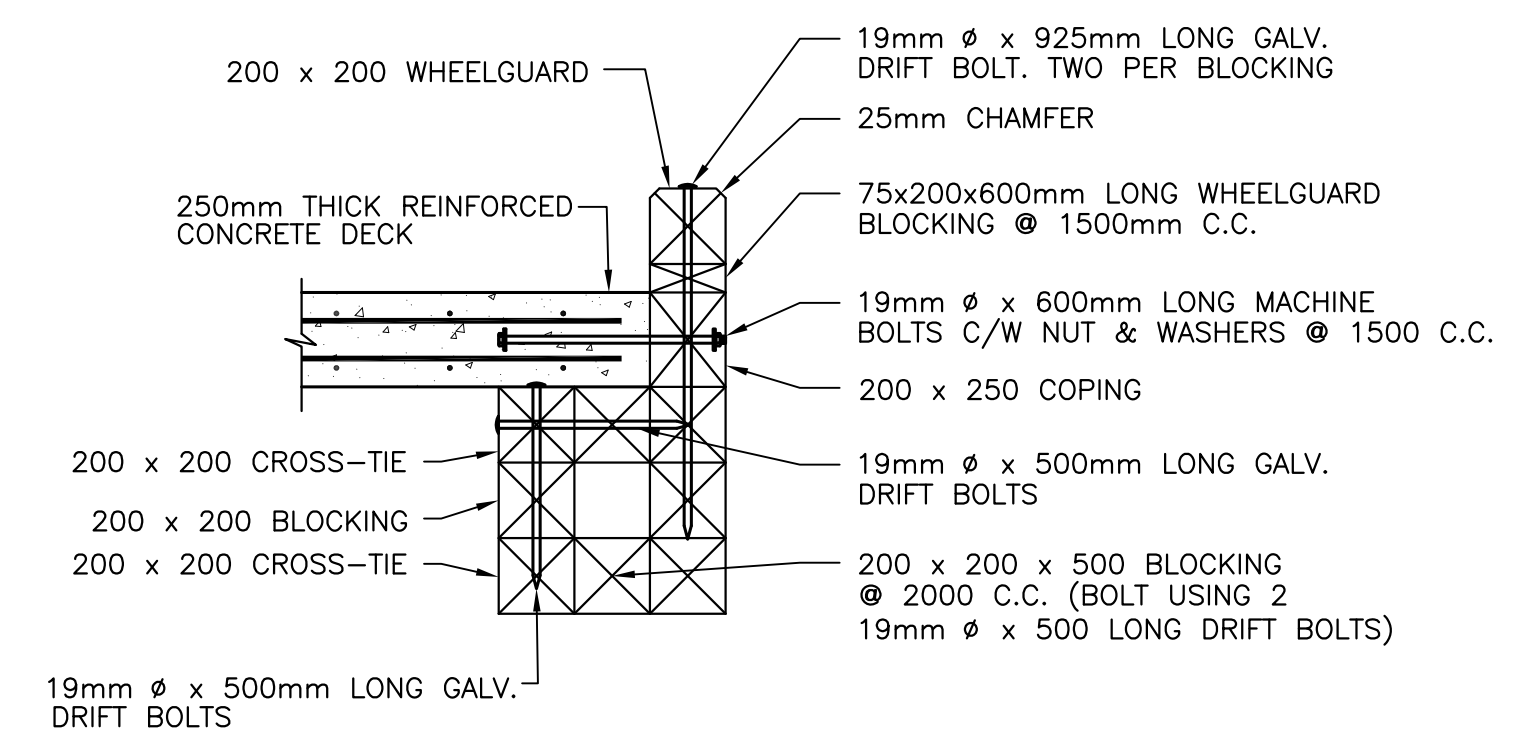
WHARF CONSTRUCTION
 RIVERHEAD, NL

DETAILS

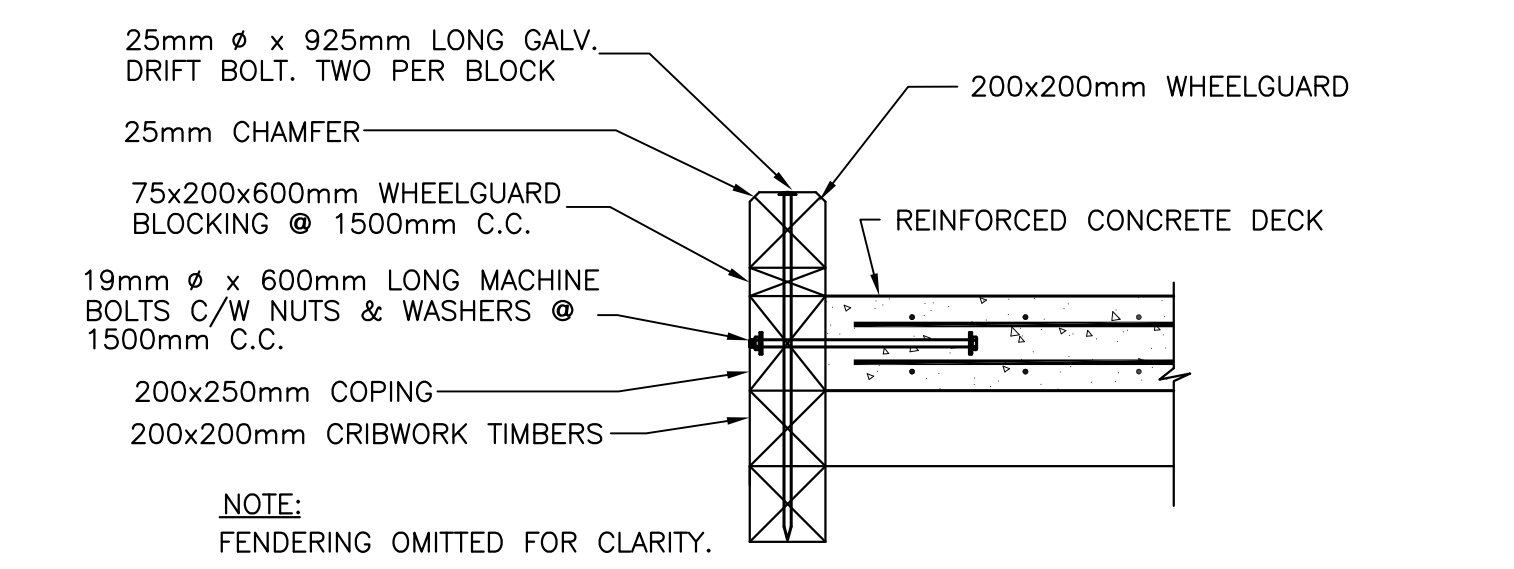
designed	N.H.	concu
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Tender	Paul Curran	Submission
DFO Project Manager		
project number	723230	no. du projet
drawing no.	C5	no. du dessin



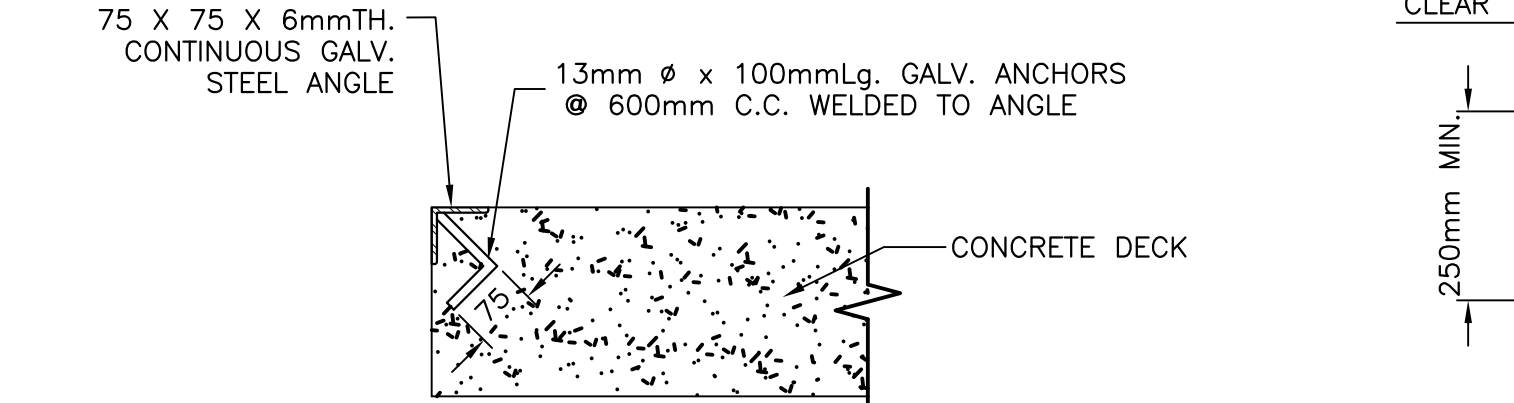
LADDER - AREA OF DOUBLE HORIZ. FENDER
 SCALE: 1:20



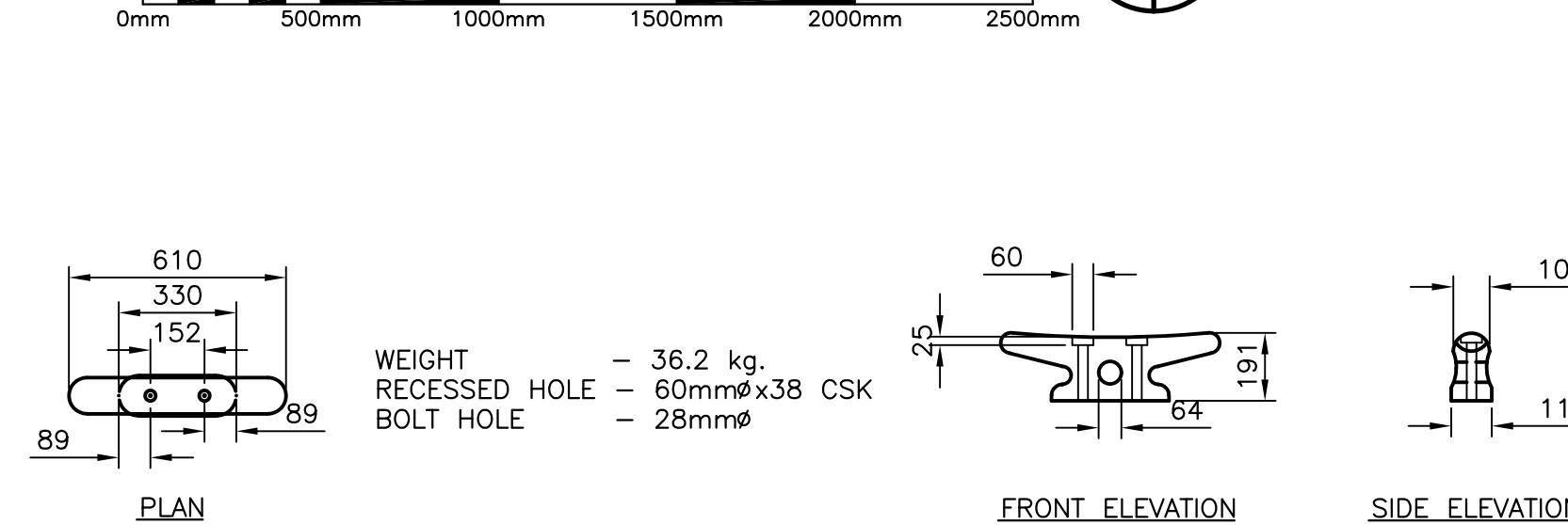
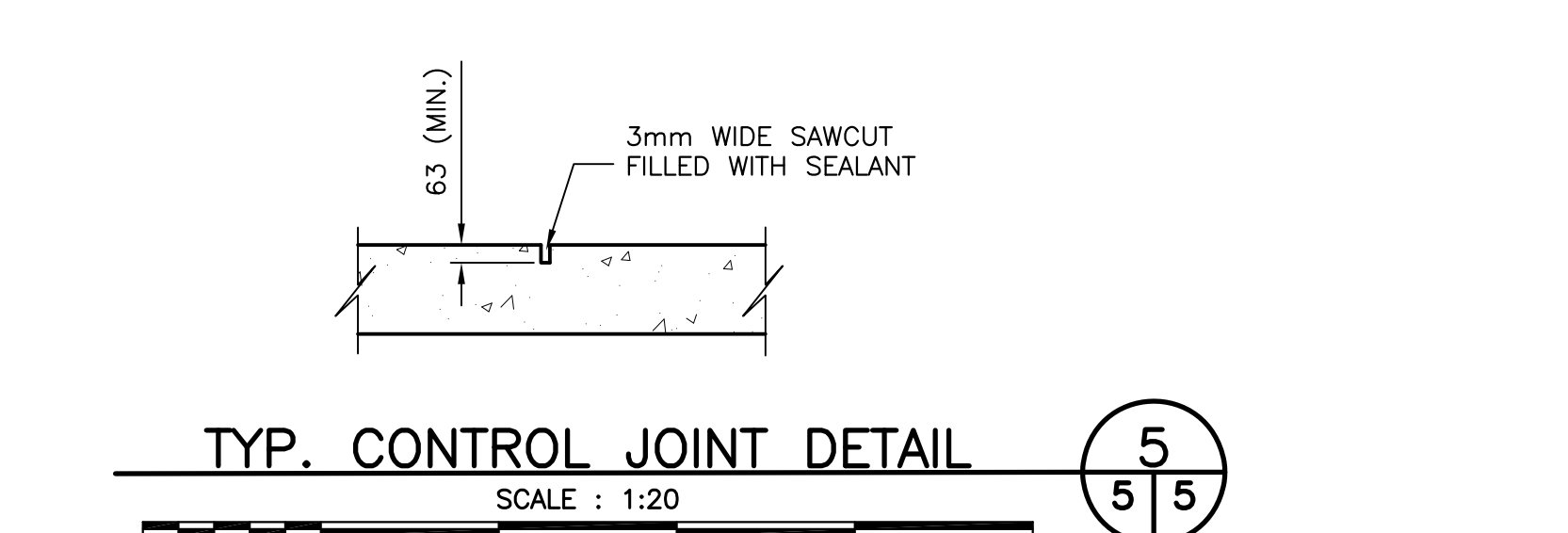
WHEELGUARD AND COPING DETAIL
 SCALE: 1:20



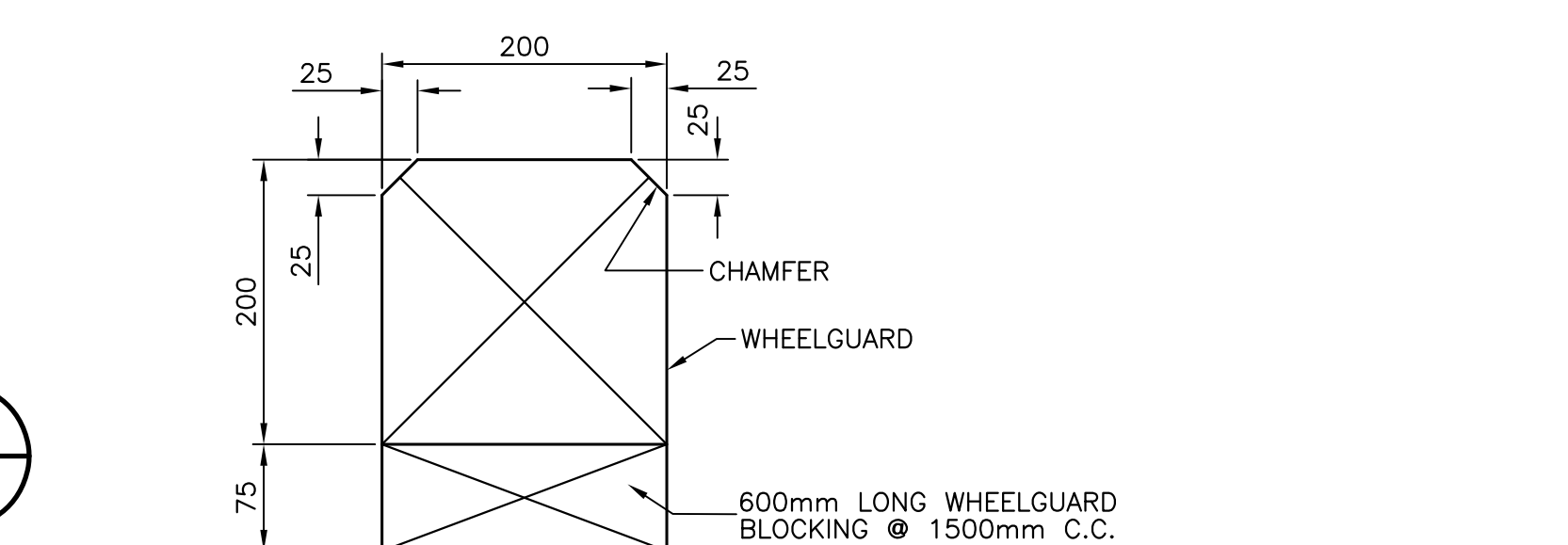
STEEL ANGLE DETAIL
 SCALE: 1:10



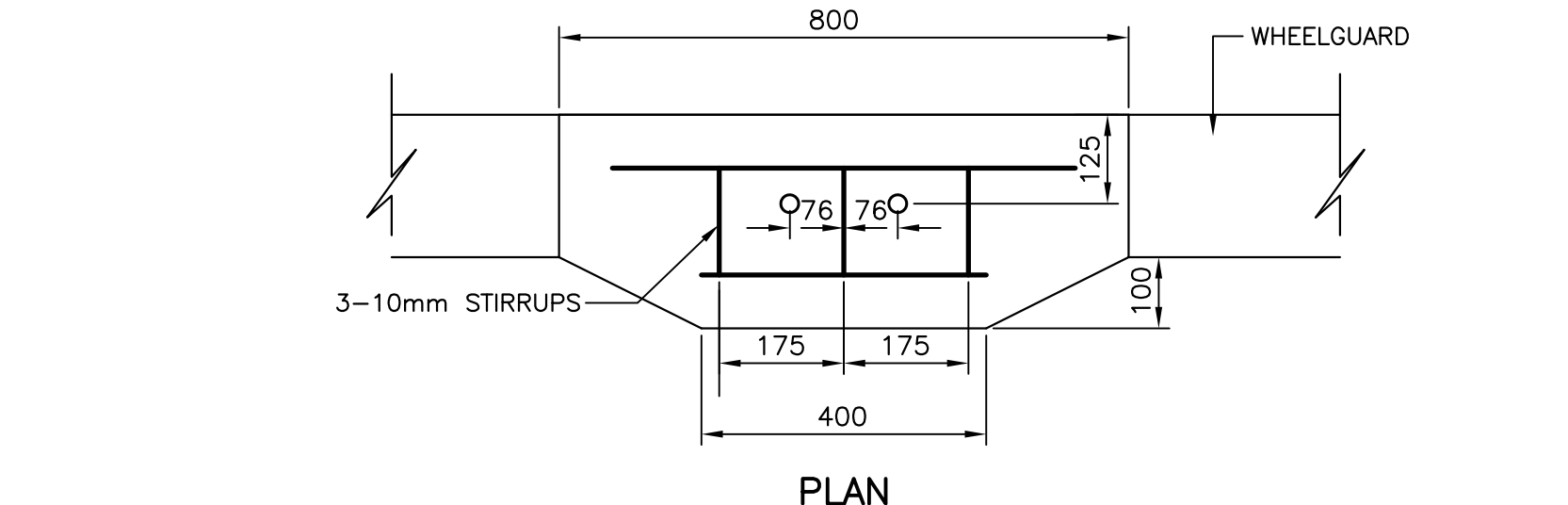
STRUCTURAL DECK & SLAB ON GRADE
 SCALE: 1:10



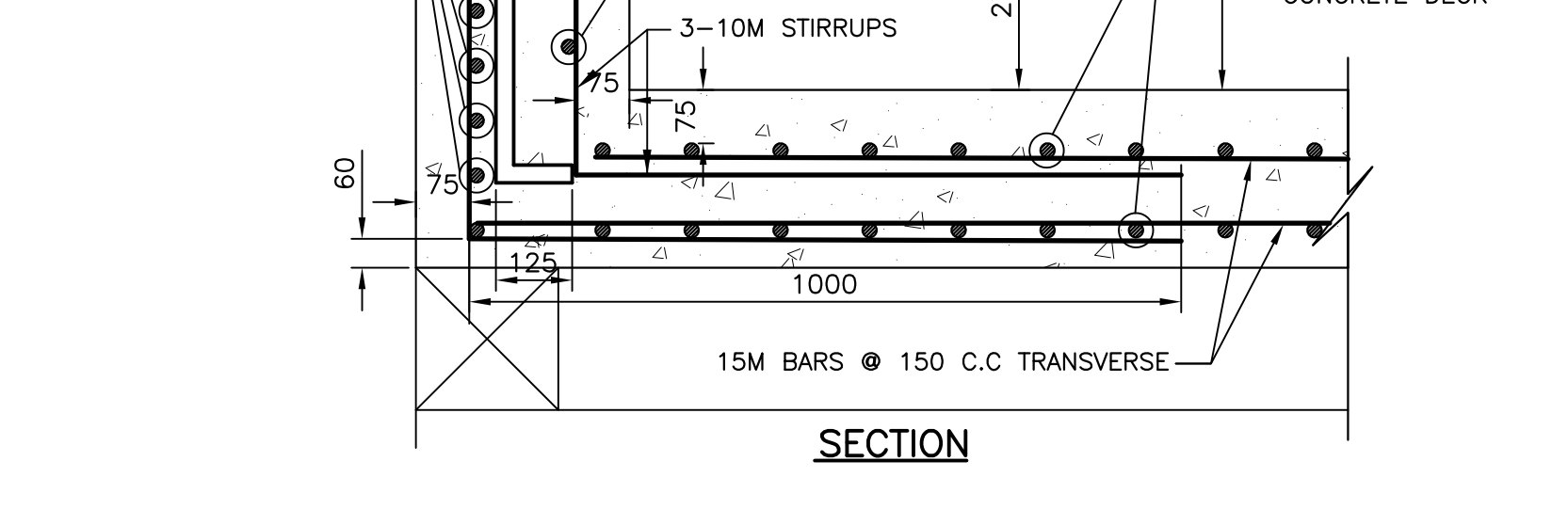
TYPE "B1" CLEAT
 SCALE: 1:20



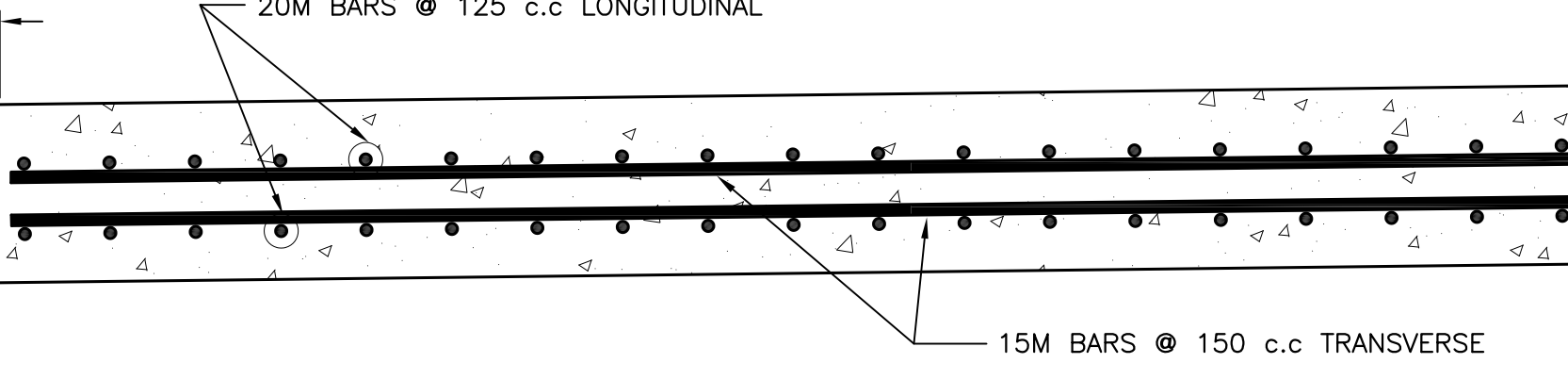
WHEELGUARD SECTION
 SCALE: 1:5



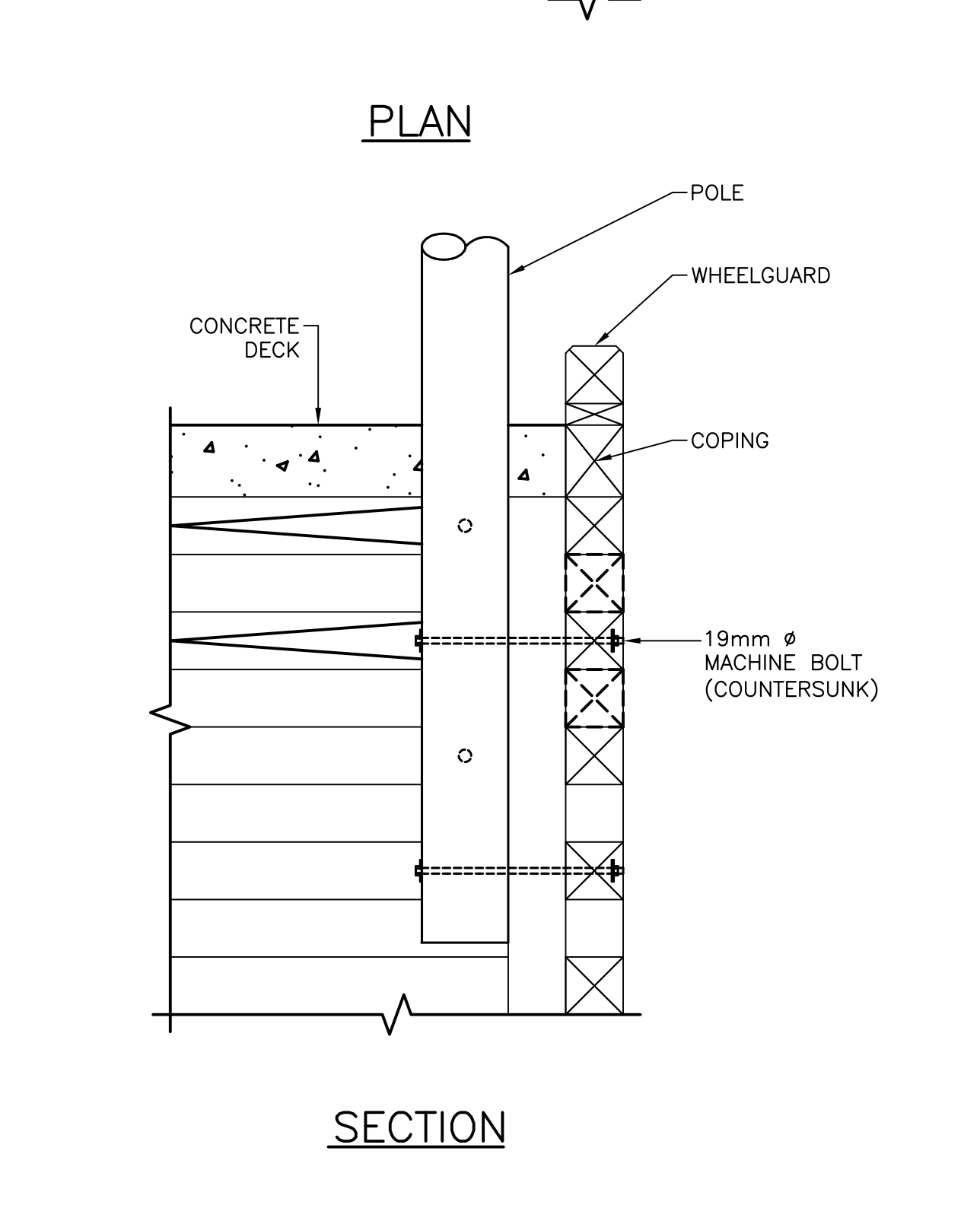
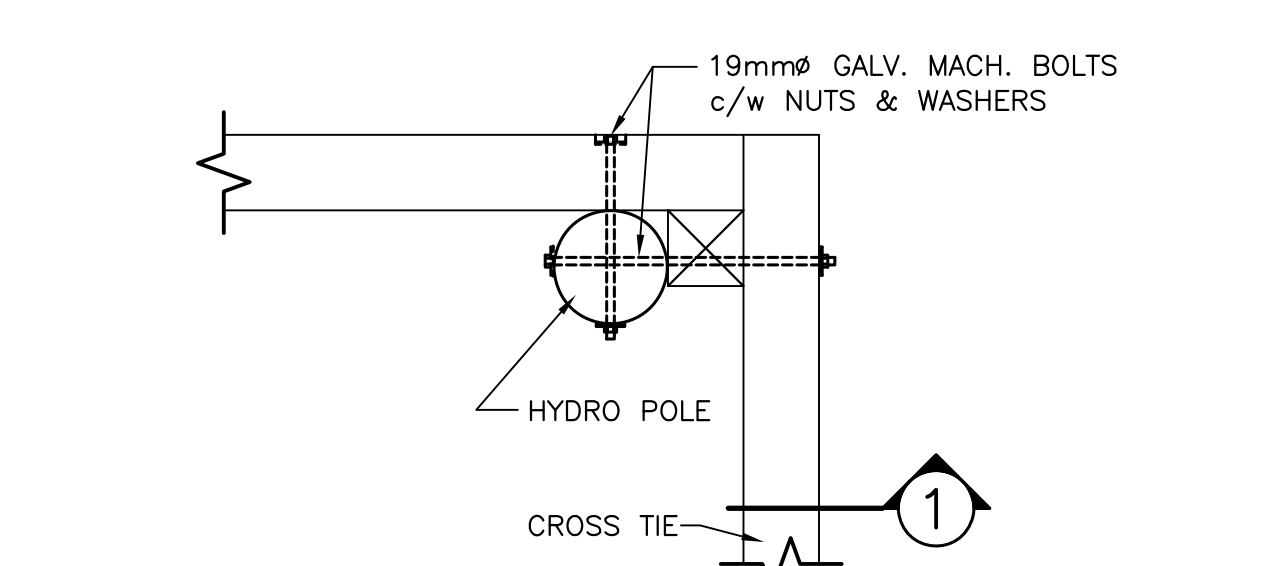
END OF WHARF BLOCKING DETAIL
 SCALE: 1:20



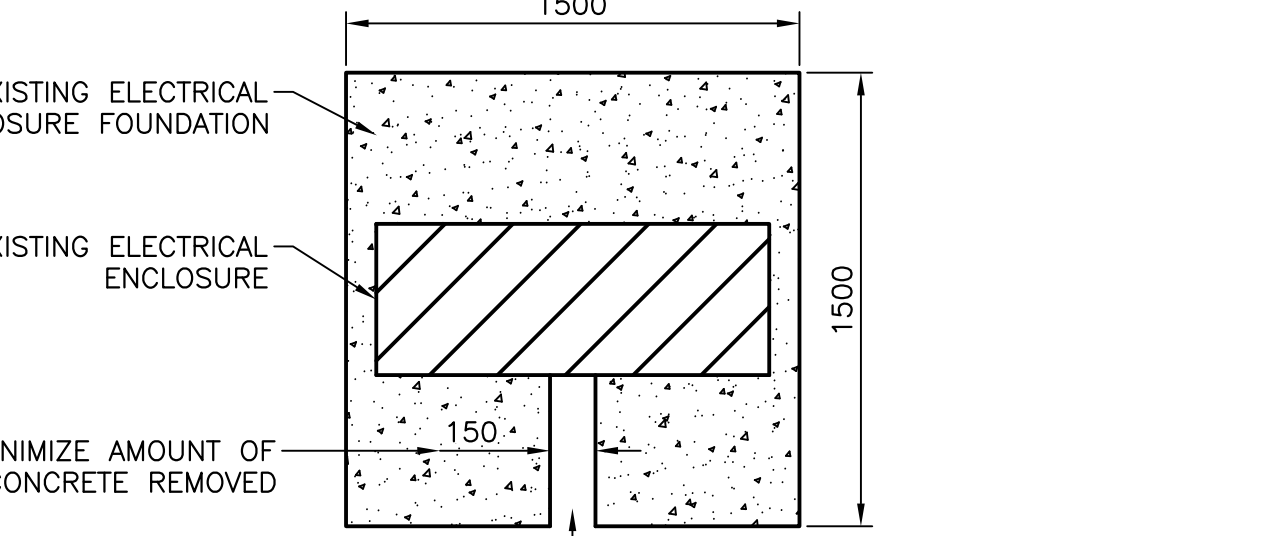
TYPE "B1" CLEAT BLOCK
 SCALE: 1:10



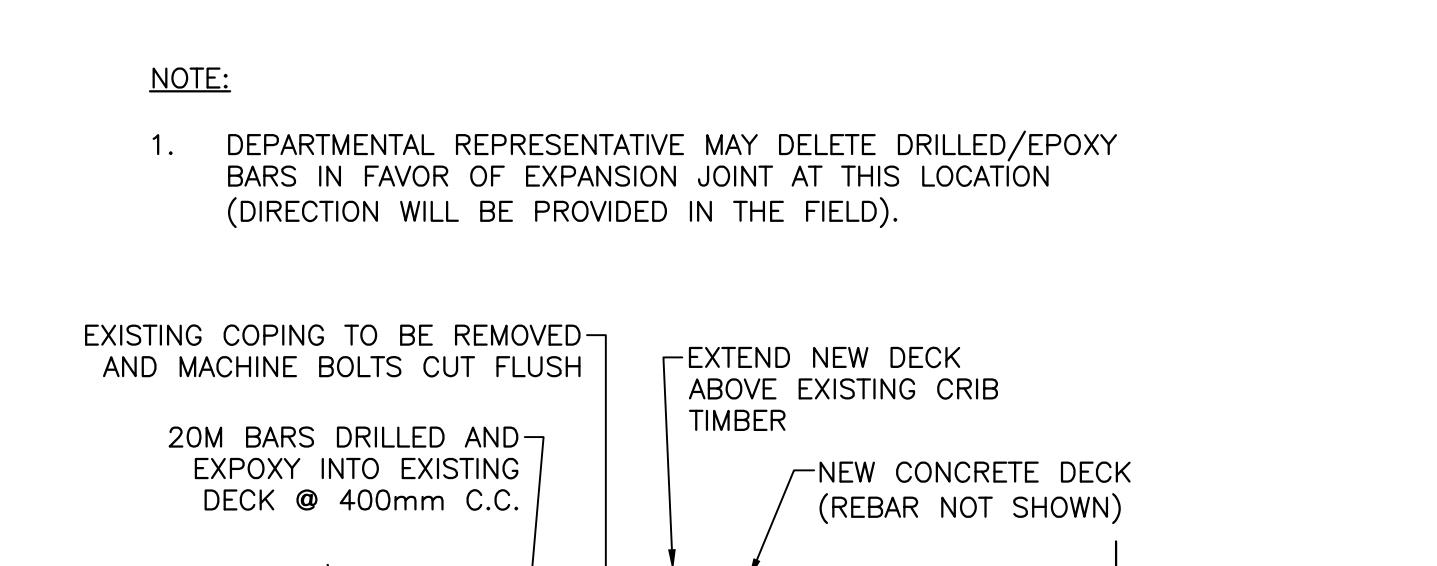
CONDUIT ROUTE TO ENCLOSURE
 SCALE: 1:25



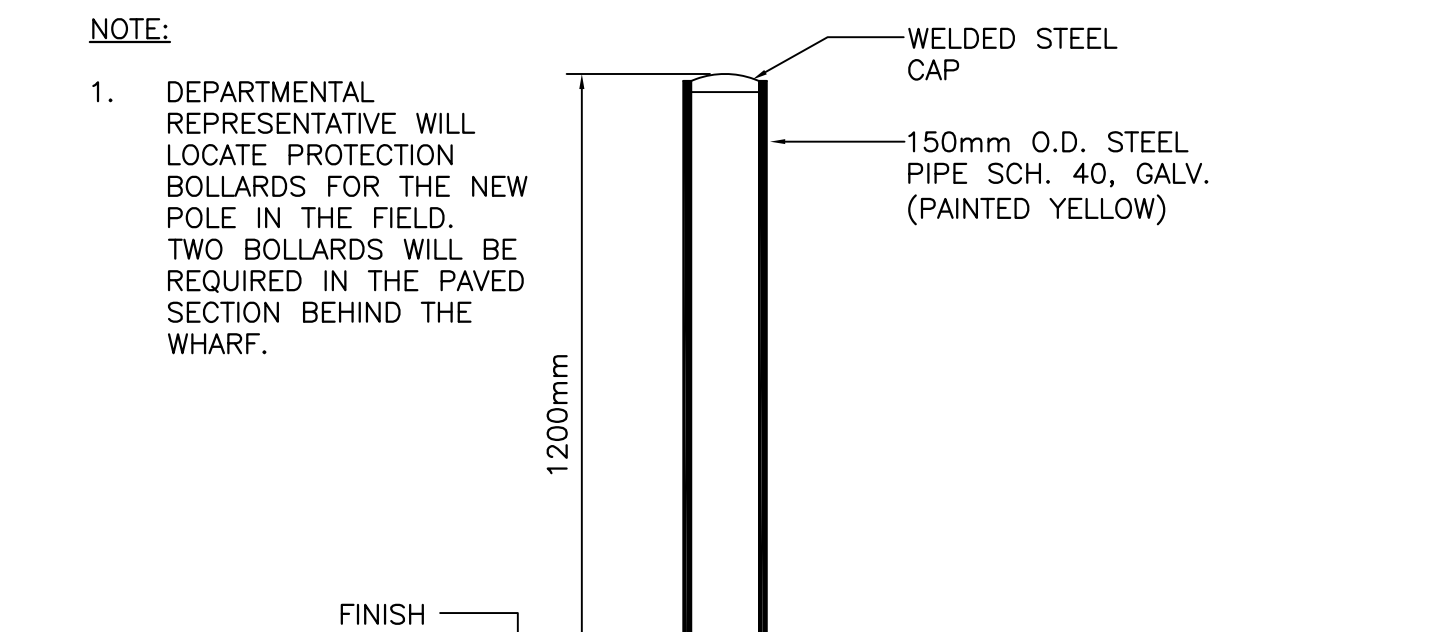
POLE PROTECTION BOLLARD
 SCALE: N.T.S.



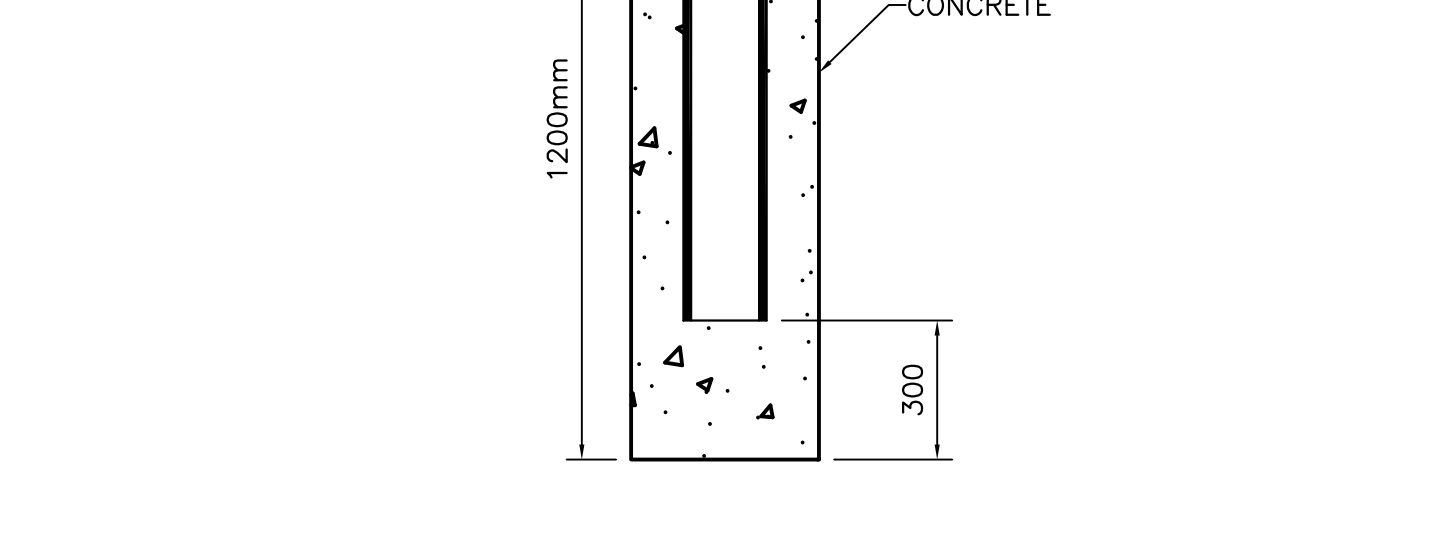
DETAIL - TYPICAL SPLICE IN LONGITUDINAL TIMBERS
 SCALE: 1:20



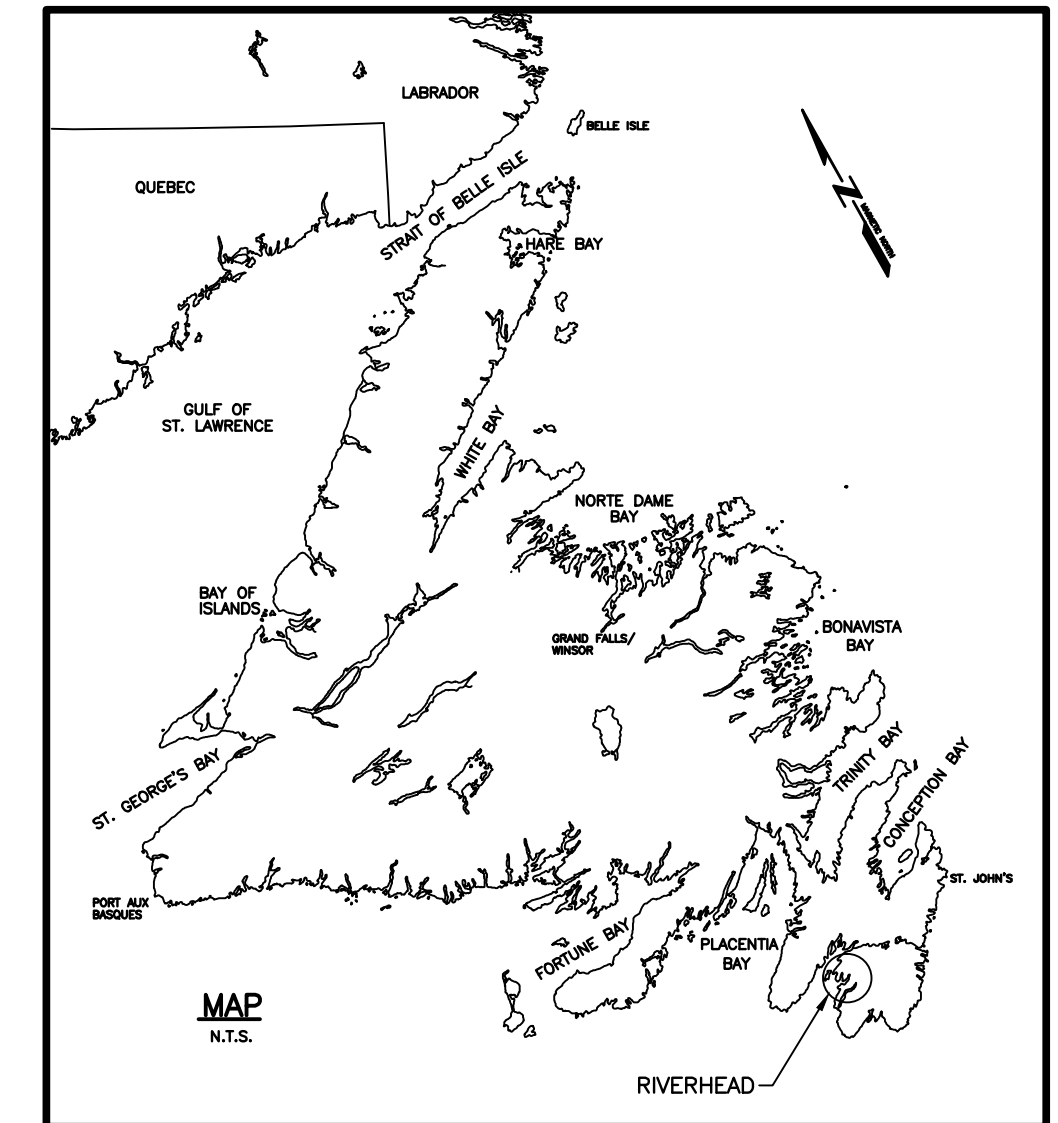
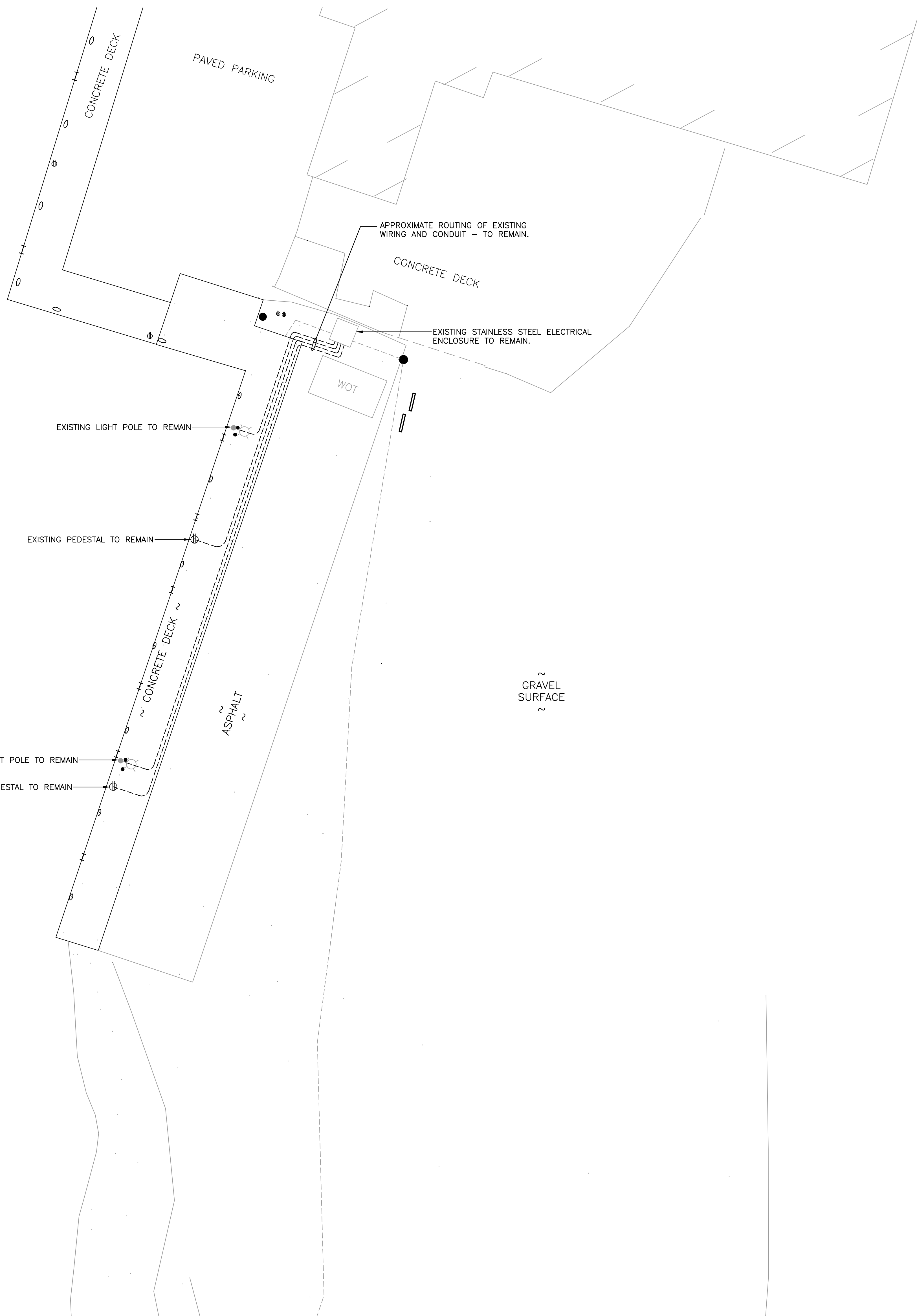
CONNECT TO EXISTING DECK
 SCALE: 1:15



CONDUIT ROUTE TO ENCLOSURE
 SCALE: 1:25



DETAIL - TYPICAL SPLICE IN LONGITUDINAL TIMBERS
 SCALE: 1:20



ELECTRICAL LEGEND

- ⊕ EXISTING ELECTRICAL PEDESTAL TO REMAIN
- ⊙ EXISTING LIGHT POLE TO REMAIN

- GENERAL NOTES:**
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE BEFORE PROCEEDING WITH ANY PORTION OF THIS WORK. DO NOT SCALE FROM DRAWINGS. CONTRACTOR TO ASSESS WORK AREA IN ADVANCE WITH OWNER REPRESENTATIVE FOR COORDINATION OF RELATED DAILY WORK SCHEDULES, PARKING, BUILDING ACCESS, AND STORAGE OF EQUIPMENT.
 - ALL WORK TO BE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF: THE NATIONAL BUILDING CODE OF CANADA, LATEST EDITION; CANADIAN ELECTRICAL CODE, CURRENT EDITION; ANY OTHER AUTHORITIES HAVING JURISDICTION.
 - WORK SHALL BE SCHEDULED DURING NORMAL WORKING HOURS. CONTRACTOR MAY WORK AFTER NORMAL WORKING HOURS AS COORDINATED BY OWNER REPRESENTATIVE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP AND DISPOSALS OF WORK AREA ON A DAILY BASIS. AFTER EACH WORKING SHIFT BUILDING TO BE CLEANED AND FREE OF DEBRIS. BUILDING GARBAGE BINS ARE NOT TO BE USED.
 - ANY ELECTRICAL SYSTEM SHUTDOWN TO BE SCHEDULED AND COORDINATED WITH OWNER REPRESENTATIVE. SUFFICIENT NOTICE SHALL BE GIVEN. 5 WORKING DAYS NOTICE IS REQUIRED FOR ANY DISRUPTION.
 - WORK TO BE CARRIED OUT IN CONSIDERATION OF CLIENT COMFORT AND OPERATIONS.
 - ALL WIRING TO BE INSTALLED IN CONDUIT AS INDICATED.
 - ACCESS TO FACILITY TO BE COORDINATED WITH OWNER REPRESENTATIVE.
 - PROVIDE TYPED REVISED PANELBOARD DIRECTORIES FOR ALL PANELBOARDS.
 - LABEL ALL EQUIPMENT WITH LAMACOID TAGS AS PER SPECIFICATION.
 - ALL EXISTING ELECTRICAL EQUIPMENT REMOVED TO BE TURNED OVER TO OWNER. IF OWNER REFUSES THEN CONTRACTOR TO REMOVE FROM SITE AND DISPOSE.

EXISTING SITE PLAN
SCALE : 1:150
0m 5m 10m 15m

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

NOTES:

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- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
Class "A"
This Permit Allows
CROSBIE ENGINEERING LIMITED
To practice Professional Engineering in Newfoundland and Labrador
Permit No. 09 issued by PEG-NS 00123 which is valid for the year 2022.

REGISTERED PROFESSIONAL ENGINEER
KENNETH P. NEIL
SIGNATURE
JAN 28, 2022
NEWFOUNDLAND & LABRADOR

0	ISSUED FOR TENDER	01/28/22
A	ISSUED FOR REVIEW	05/21/21
revisions		date
project		projct

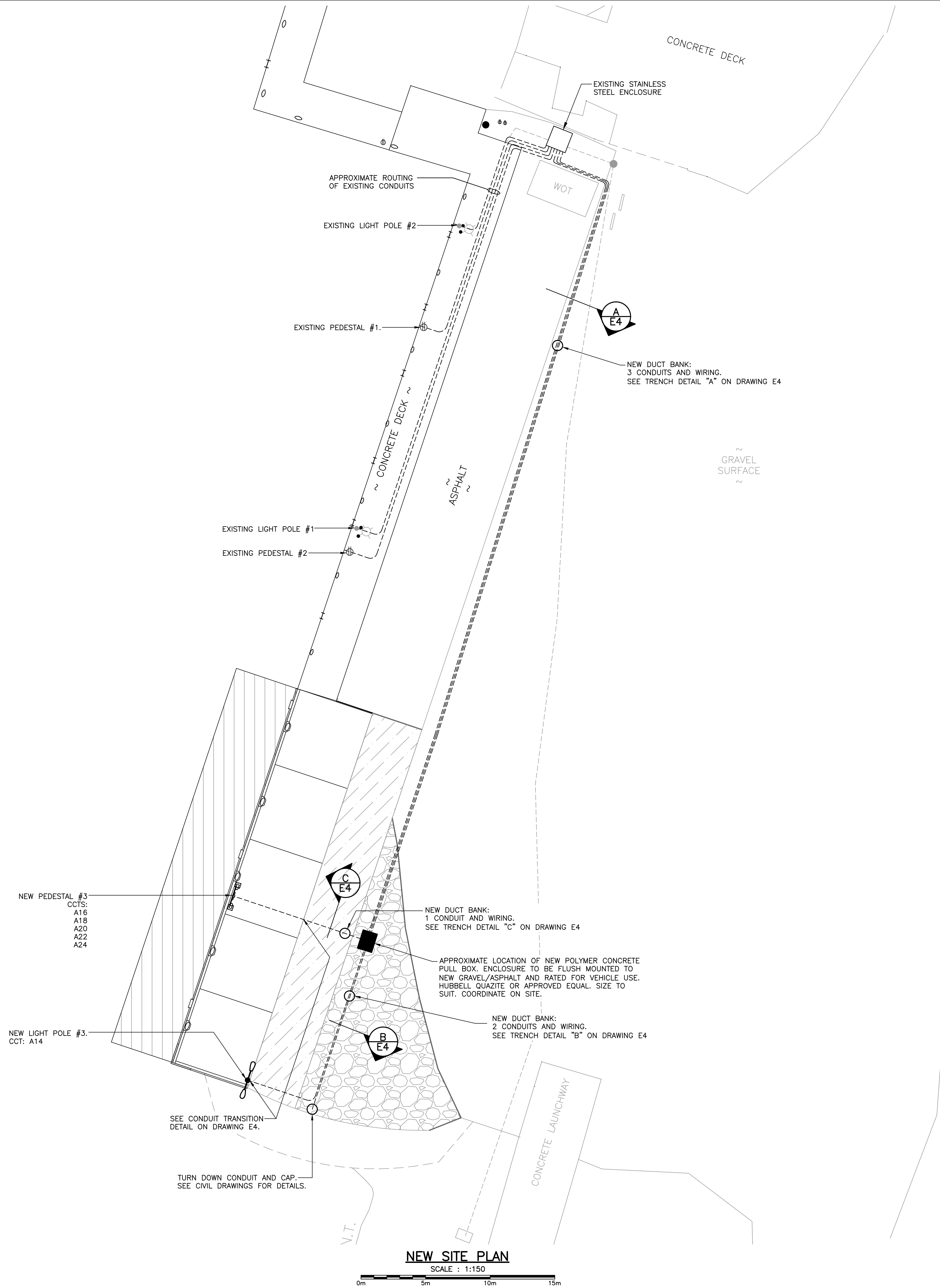
WHARF CONSTRUCTION
RIVERHEAD, NL

drawing dessin

EXISTING SITE PLAN

designed K.N. concu
date JANUARY 2022
drawn R.J. dessine
date JANUARY 2022
approved approve

Tender *Paul Curran* Submission
DFO Project Manager
project number 723230 no. du projet
drawing no. E1 no. du dessin



LEGEND

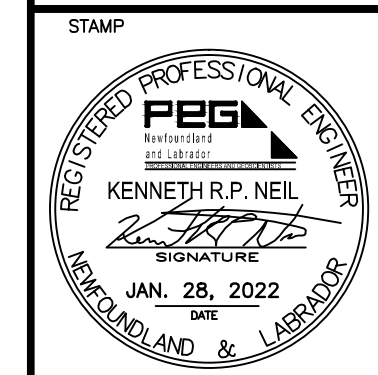
- NEW ELECTRICAL PEDESTAL. SEE DETAILS ON DRAWING E3.
- NEW LIGHT POLE. SEE DETAILS ON DRAWING E4.
- ⊕ EXISTING ELECTRICAL PEDESTAL TO REMAIN
- ⊙ EXISTING LIGHT POLE TO REMAIN

SMALL CRAFT HARBOURS



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project		projct

WHARF CONSTRUCTION
RIVERHEAD, NL

NEW SITE PLAN

designed K.N.	concu
date JANUARY 2022	
drawn R.J.	dessine
date JANUARY 2022	
approved	approuve

Tender Paul Curran	Submission
DFO Project Manager	
project number 723230	no. du projct
drawing no. E2	no. du dessin

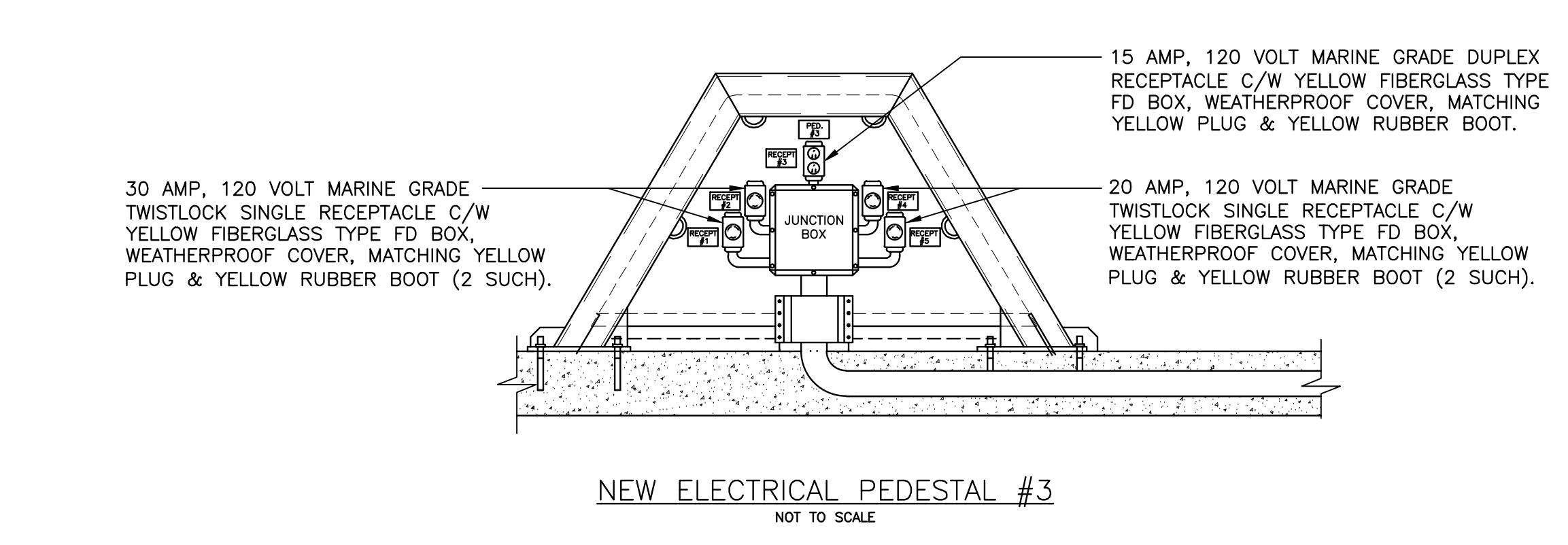
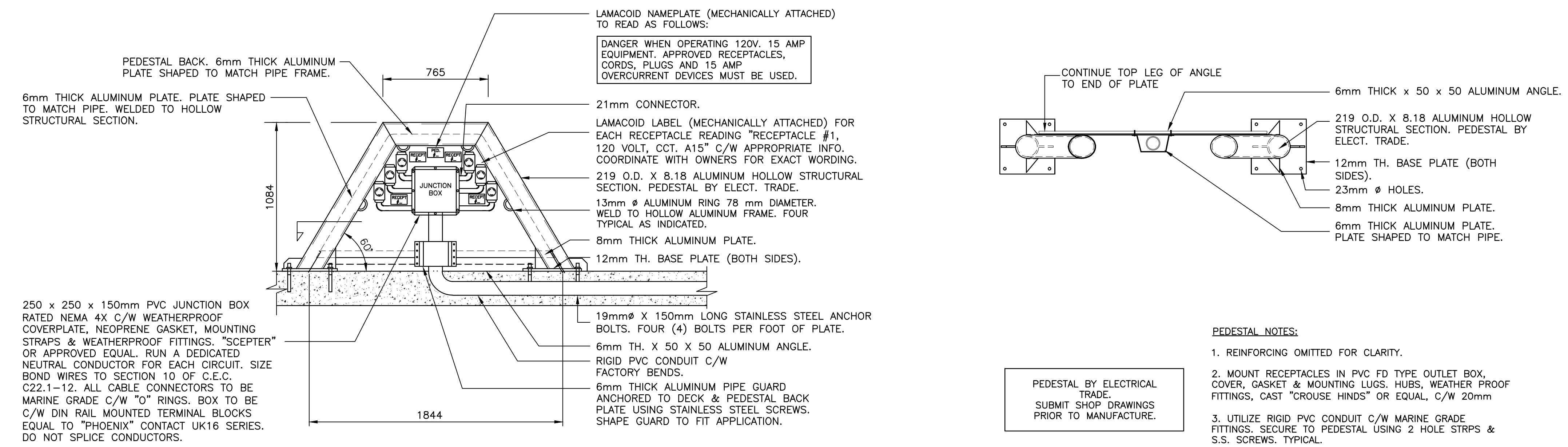
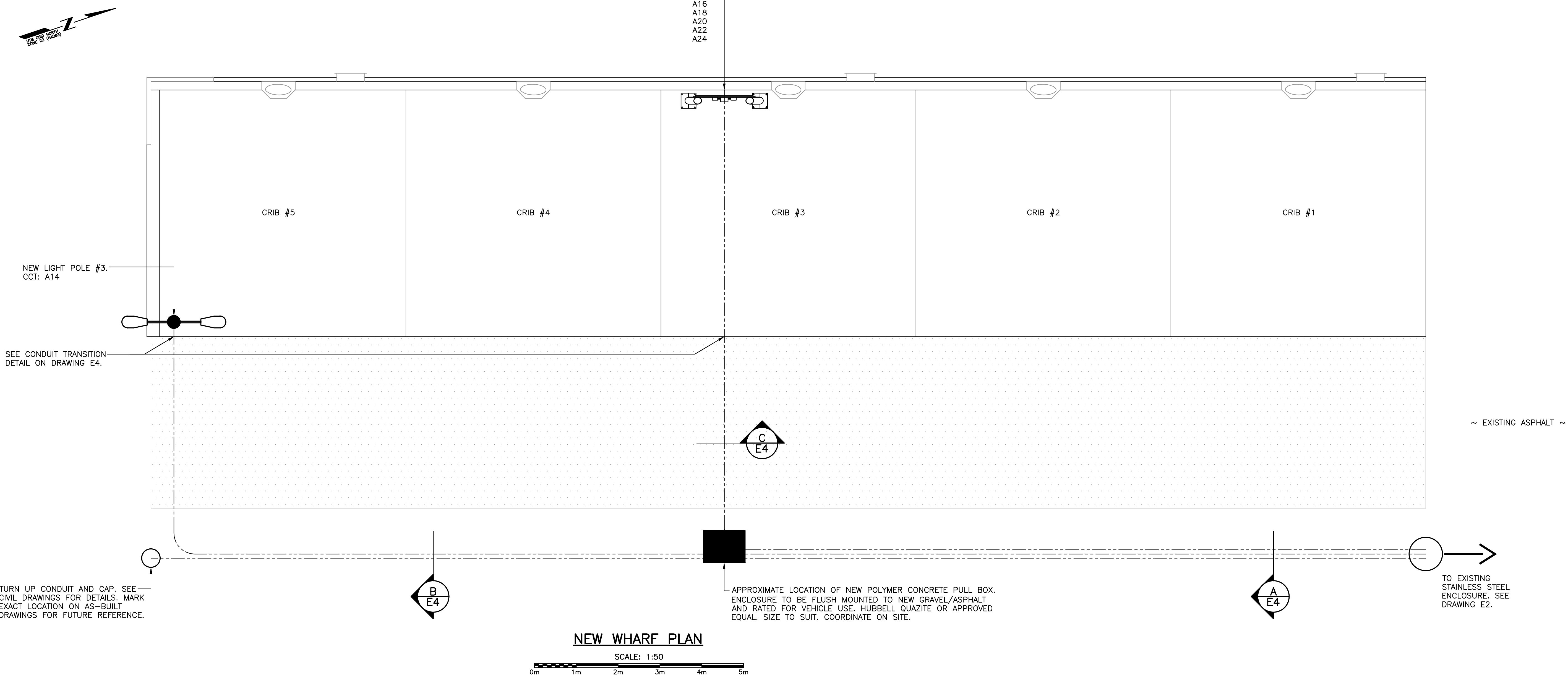
SMALL CRAFT HARBOURS



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PEG
 KENNETH P. NEIL
 SIGNATURE
 JAN. 28, 2022
 NEWFOUNDLAND & LABRADOR



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revisions		date

project project
WHARF CONSTRUCTION
RIVERHEAD, NL

NEW WHARF PLAN AND ELECTRICAL DETAILS

designed K.N. concu
 date JANUARY 2022
 drawn R.J. desine
 date JANUARY 2022
 approved
 Tender *Paul Curran* Submission
 DFO Project Manager
 project number **723230** no. du projet
 drawing no. **E3** no. du dessin

EXISTING PANEL

VOLTS	120/240	PANEL NAME	"A"	MAINS RATED	200 AMPS	C/W 200 AMP, 2 POLE MAIN BREAKER
PHASE	1	LOCATION	ELECTRICAL ENCLOSURE	MOUNTING SURFACE		
WIRE	3	FED FROM	UTILITY	ENTER AT		CIRCUITS 30

DESIGNATION	WATTAGE		WIRE	BKR	CCT	A	B	CCT	BKR	WIRE	WATTAGE		DESIGNATION
	φ A	φ B									φ A	φ B	
N,GF EXISTING RECEPT - PED. #2			E	15	1			2	15	E			EXISTING RECEPT - PED. #1
N,GF EXISTING RECEPT - PED. #1			E	20	3			4	30	E			EXISTING RECEPT - PED. #1
N,GF EXISTING RECEPT - PED. #2			E	20	5			6	30	E			EXISTING RECEPT - PED. #1
N,GF30 EXISTING RECEPT - PED. #2			E	30	7			8	50	E			
N,GF30 EXISTING RECEPT - PED. #2			E	30	9			10	2	E			EXISTING RECEPT - PED. #2
EXISTING CIRCUIT - LIGHT IN ENCL.			E	15	11			12	20	E			EXISTING RECEPT - PED. #1
EXISTING CIRCUIT - HEATER IN ENCL.			E	15	13			14	15	10	300		LIGHT POLE #3
SPARE					15			16	30	3	2880		RECEPTACLE #1 - PED #3
N,GF30 EXISTING CIRCUIT - POLE LIGHT #1			E	15	17			18	30	3	2880		RECEPTACLE #2 - PED #3
N,GF30 EXISTING CIRCUIT - POLE LIGHT #2			E	15	19			20	15	6	1440		RECEPTACLE #3 - PED #3
SPARE					15			22	20	4	1920		RECEPTACLE #4 - PED #3
SPARE					15			24	20	4	1920		RECEPTACLE #5 - PED #3
SPARE					15			26					
SPARE					15			28					
SPARE					15			30	15	E			EXISTING RECEPT C/W GFCI BREAKER

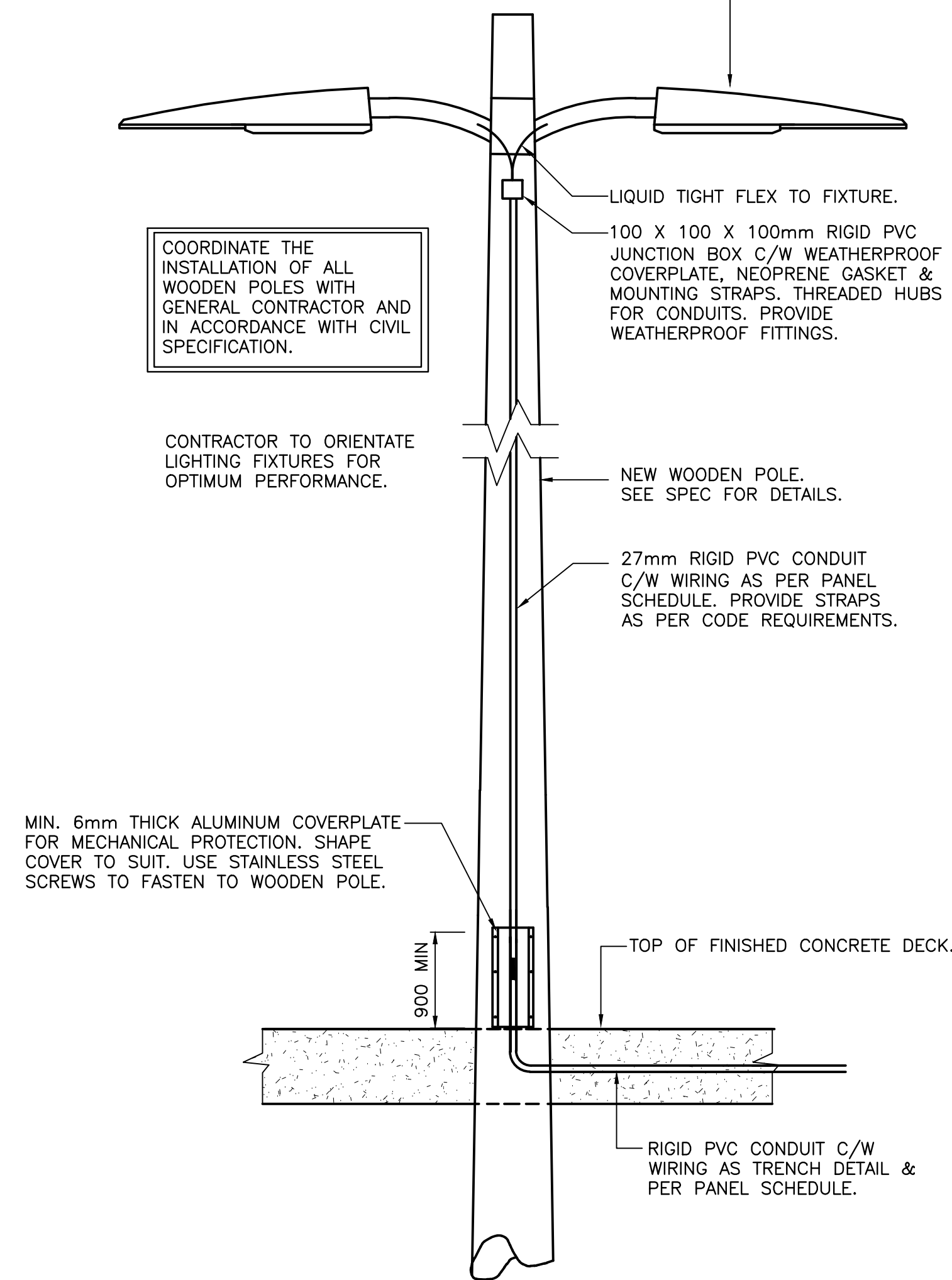
φ A TOTAL : 11630
φ B TOTAL : 12874

TOTAL DEMAND 41.4 KW 172.2 AMP

WHERE INDICATED, SUPPLY AND INSTALL NEW CIRCUIT BREAKER FOR EXISTING CIRCUITS. CONNECT EXISTING CIRCUIT TO NEW CIRCUIT BREAKER. COORDINATE ON SITE.

* - INDICATES LOCK ON DEVICE
** - INDICATES GROUND FAULT CIRCUIT BREAKER
GF - INDICATES CIRCUIT BREAKER SHALL BE GFCI CLASS A TYPE
GF30 - INDICATES CIRCUIT BREAKER SHALL BE GFCI CIRCUIT BREAKER WITH GROUND FAULT SETTING AT 30ma.
N - INDICATES SUPPLY AND INSTALL NEW CIRCUIT BREAKER WITHIN EXISTING PANEL C/W MOUNTING HARDWARE. IC RATING TO MATCH. COORDINATE ON SITE.
E - INDICATES EXISTING TO REMAIN

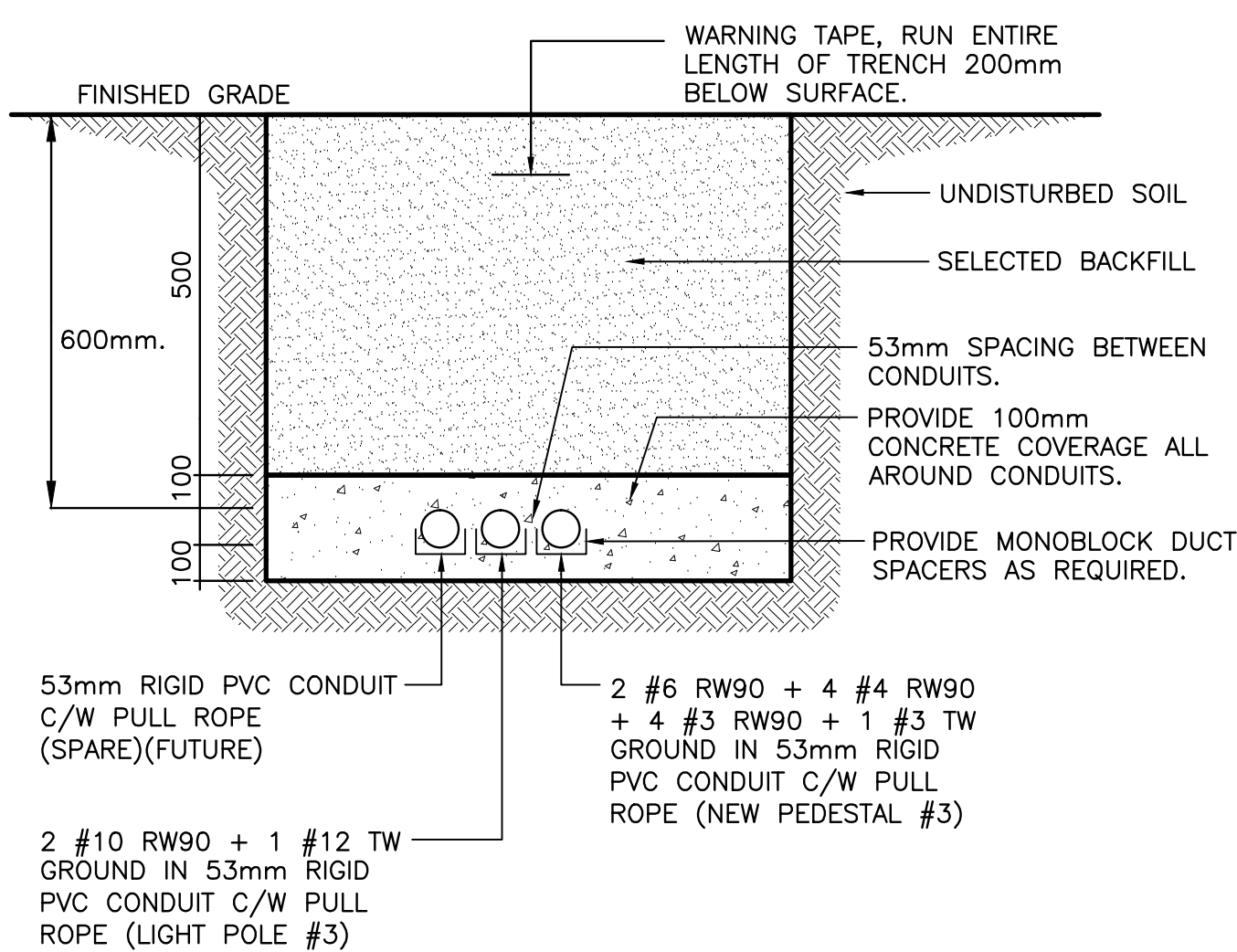
LIGHT FIXTURE, PHOTOCCELL, UPSWING ARM AND LAMP TO BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. OWNER SUPPLIED MATERIALS TO BE PICKED UP BY THE CONTRACTOR AT DFO'S WAREHOUSE IN MOUNT PEARL, NL. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL OTHER REQUIRED JUNCTION BOXES, CONDUIT, COVERPLATES, ETC FOR A COMPLETE INSTALLATION. FIXTURES SHALL BE MOUNTED 8.8 METERS ABOVE FINISHED DECK.



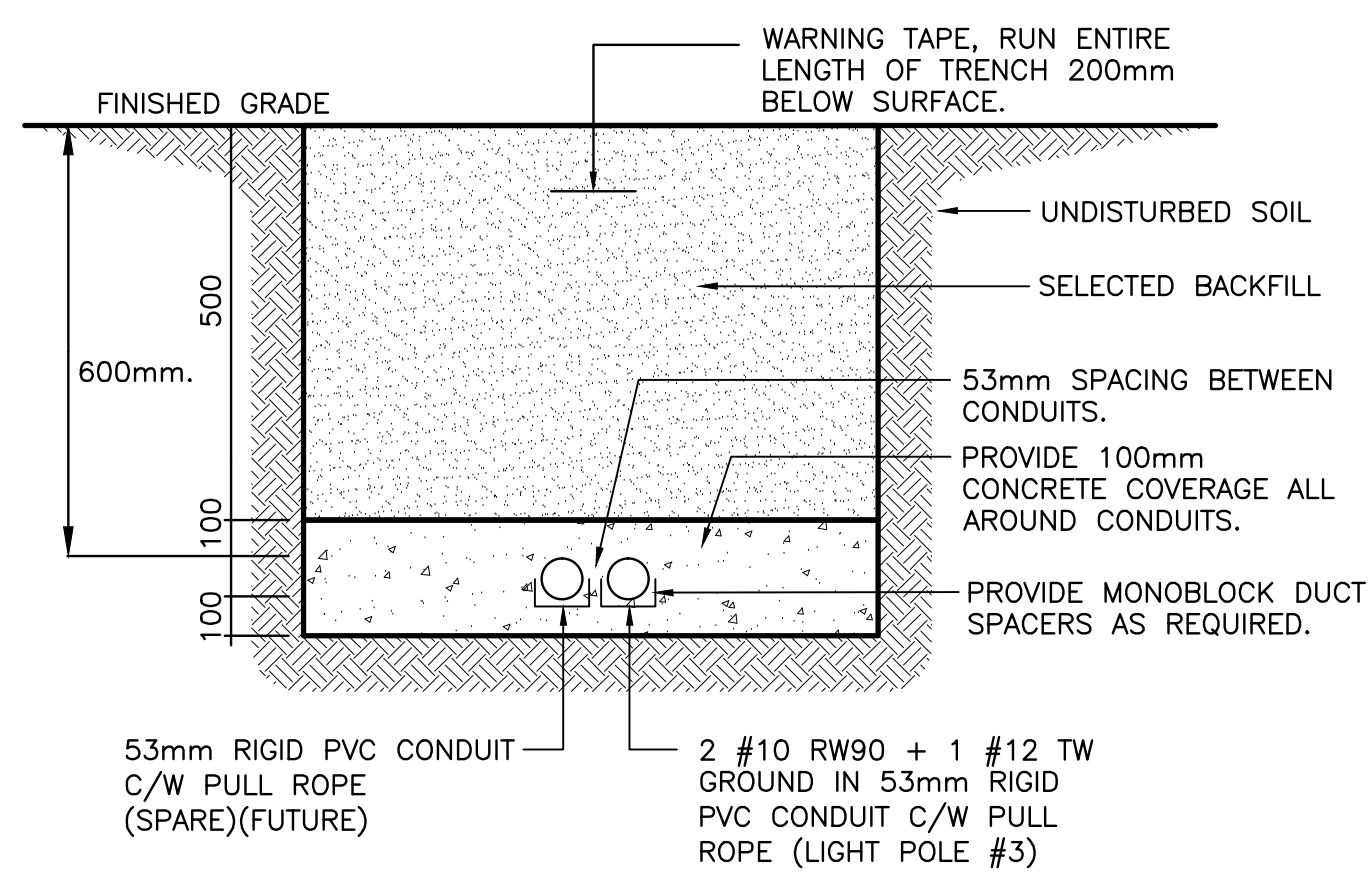
NEW LIGHT POLE DETAIL
N.T.S.

TRENCHING NOTES:

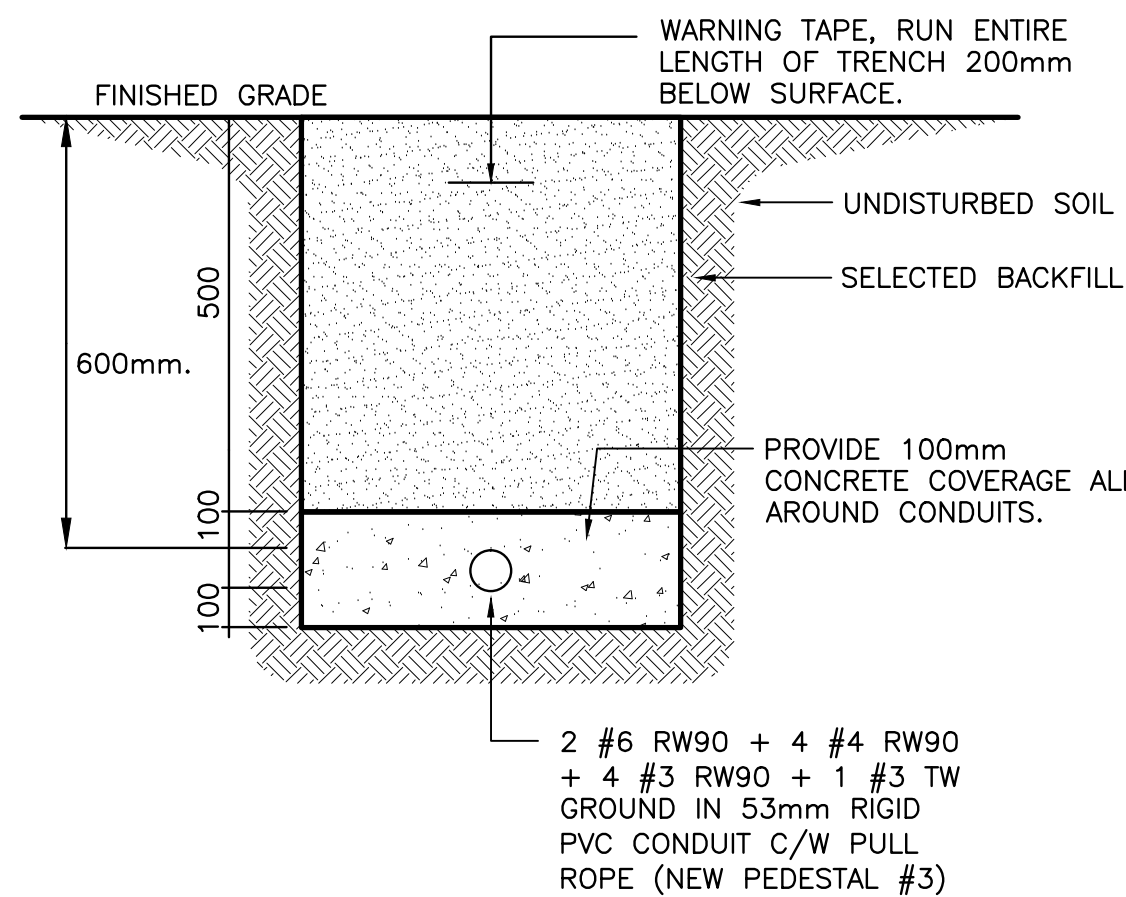
- ALL TRENCHES SHALL BE BACKFILLED WITH SELECTED BACKFILL AND TAMPED IN 300mm LAYERS. EXCEPT AT ROAD CROSSINGS WHERE THE BACKFILL SHALL BE THE SAME MATERIAL AS THE ROAD BED AND TAMPED IN 150mm LAYERS. EXCESS FILL SHALL BE PLACED ON TOP TO ALLOW FOR SETTLING.
- THE DUCTS SHALL BE SUPPORTED BY APPROVED SPACERS. NO WIRE OR METAL TIES TO BE USED.
- COPPER FISH WIRE MINIMUM #8 MUST BE INSTALLED IN ALL DUCTS.
- ELECTRICAL DUCT MUST BE RIGID PVC OR APPROVED EQUIVALENT.
- ALL DUCTS AND FITTINGS MUST BE CSA APPROVED.
- ALL DUCTS ARE TO BE SECURELY CAPPED AT BOTH ENDS.
- ALL FITTINGS, COUPLINGS AND ADAPTERS ARE TO BE SOLVENT WELD



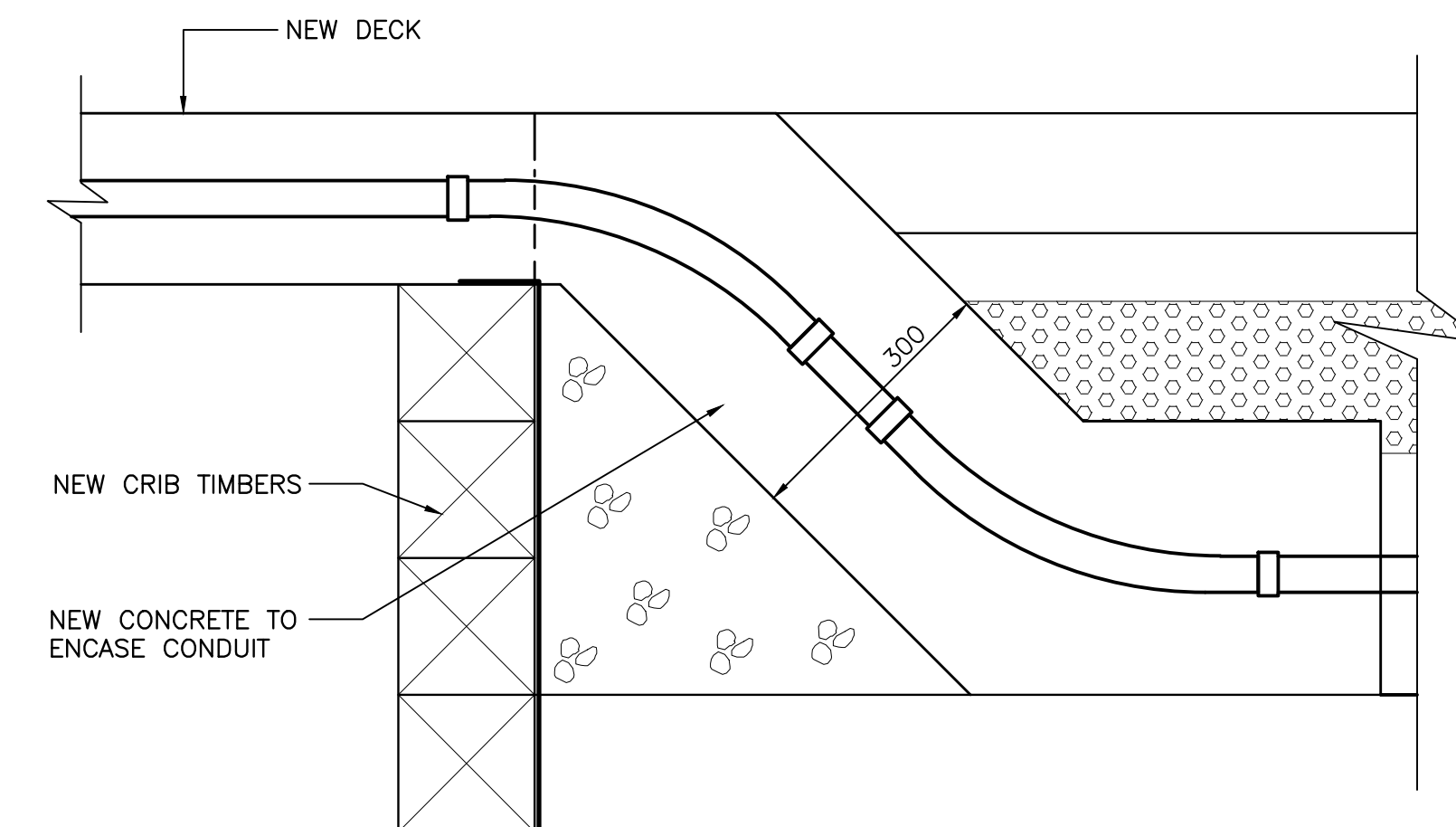
TRENCH DETAIL A
SCALE : N.T.S.



TRENCH DETAIL B
SCALE : N.T.S.



TRENCH DETAIL C
SCALE : N.T.S.



CONDUIT TRANSITION DETAIL
N.T.S.

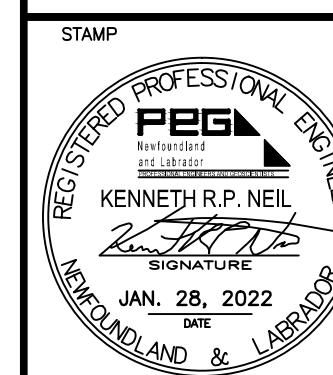
SMALL CRAFT HARBOURS



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WHARF CONSTRUCTION
RIVERHEAD, NL

ELECTRICAL DETAILS

designed	K.N.	concu
date	JANUARY 2022	
drawn	R.J.	desine
date	JANUARY 2022	
approved		approve
Tender	Paul Curran	Submission
DFO Project Manager		
project number	723230	no. du projet
drawing no.	E4	no. du dessin