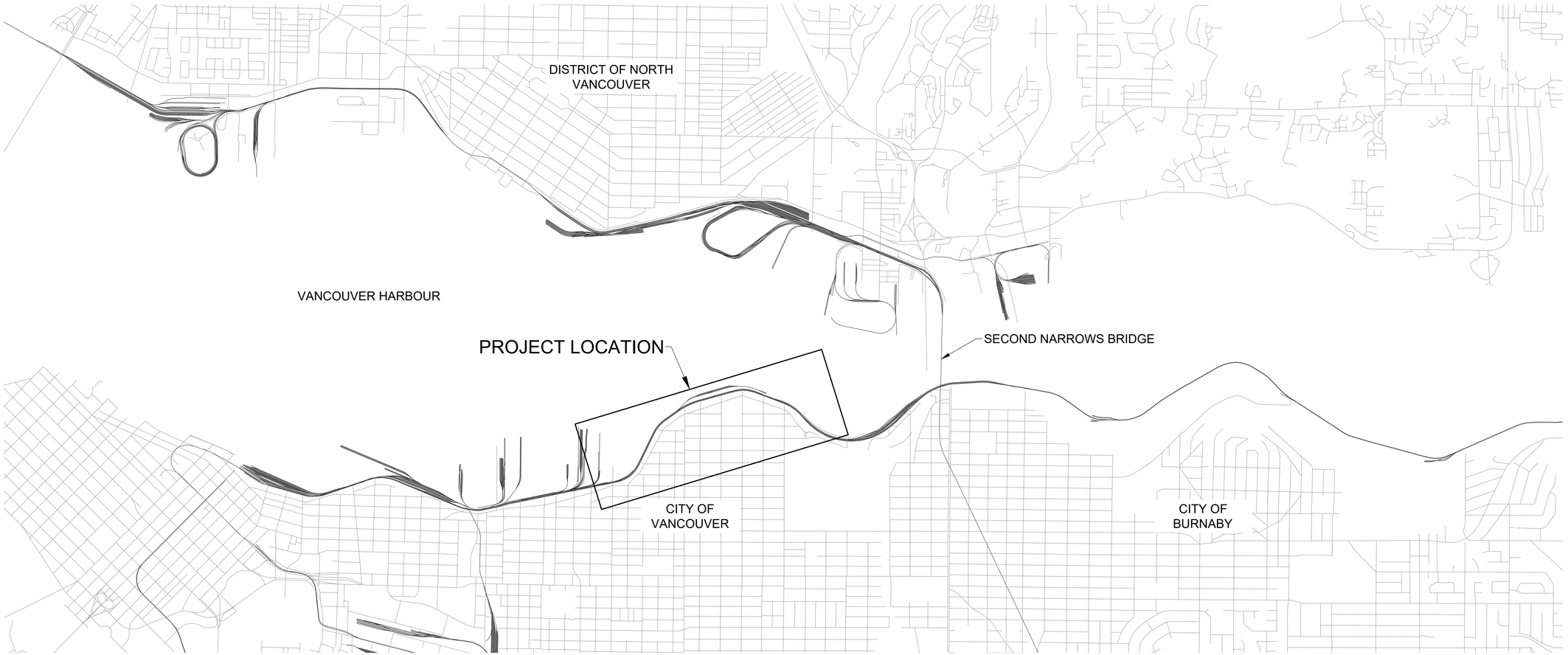
EAST L YARD EXPANSION
WESTERN REGION - VANCOUVER DIVISION
ISSUED FOR 90% DESIGN



MILE 125.37 TO 127.00 CASCADE SUBDIVISION
EAST L YARD EXPANSION

AUGUST 03, 2021

ENGINEERING PROJECTS - WEST

PROJECT No: 362376
H362376-RW-100-S0-0001 REV C

NOT FOR CONSTRUCTION

DRAWING LIST

PLAN NO.	DESCRIPTION	REVISION
H362376-GA-100-S0-0001	EAST L YARD EXPANSION, GENERAL, COVER SHEET	C
H362376-GA-100-S0-1001	EAST L YARD EXPANSION, GENERAL, DRAWING INDEX	C
H362376-GA-100-S0-1005	EAST L YARD EXPANSION, GENERAL, ABBREVIATIONS AND LEGEND	C
H362376-GA-100-S0-1010	EAST L YARD EXPANSION, GENERAL, NOTES	C
H362376-GA-100-S0-2001	EAST L YARD EXPANSION, GENERAL, KEY PLAN	C
H362376-GA-100-S0-2002	EAST L YARD EXPANSION, GENERAL, TRACK CAPACITY	C
H362376-GA-100-S0-2100	EAST L YARD EXPANSION, GENERAL, SITE PLAN	A
H362376-RW-100-S0-3001	EAST L YARD EXPANSION, RAIL, ALIGNMENT DATA CONTROL - SHEET 1	C
H362376-RW-100-S0-3002	EAST L YARD EXPANSION, RAIL, ALIGNMENT DATA CONTROL - SHEET 2	C
H362376-RW-100-S0-3003	EAST L YARD EXPANSION, RAIL, ALIGNMENT DATA CONTROL - SHEET 3	C
H362376-RW-100-S0-4001	EAST L YARD EXPANSION, RAIL - PLAN & PROFILE, TRACK L30 - STA 0+085 TO 0+430	C
H362376-RW-100-S0-4002	EAST L YARD EXPANSION, RAIL - PLAN & PROFILE, TRACK L30 - STA 0+430 TO 0+760	C
H362376-RW-100-S0-4003	EAST L YARD EXPANSION, RAIL - PLAN & PROFILE, TRACK L30 - STA 0+760 TO 1+100	C
H362376-RW-100-S0-4004	EAST L YARD EXPANSION, RAIL - PLAN & PROFILE, TRACK L30 - STA 1+100 TO 1+440	C
H362376-RW-100-S0-4005	EAST L YARD EXPANSION, RAIL - PLAN & PROFILE, TRACK L30 - STA 1+440 TO 1+780	C
H362376-RW-100-S0-4006	EAST L YARD EXPANSION, RAIL - PLAN & PROFILE, TRACK L30 - STA 1+780 TO 2+120	C
H362376-RW-100-S0-4007	EAST L YARD EXPANSION, RAIL - PLAN & PROFILE, TRACK L30 - STA 2+120 TO 2+460	C
H362376-RW-100-S0-4008	EAST L YARD EXPANSION, RAIL - PLAN & PROFILE, TRACK L31 CONNECTION & SALISBURY DRIVE CROSSOVER	C
H362376-RW-100-S0-4100	EAST L YARD EXPANSION, RAIL, REMOVAL PLAN - SHEET 1 OF 4	A
H362376-RW-100-S0-4101	EAST L YARD EXPANSION, RAIL, REMOVAL PLAN - SHEET 2 OF 4	A
H362376-RW-100-S0-4102	EAST L YARD EXPANSION, RAIL, REMOVAL PLAN - SHEET 3 OF 4	A
H362376-RW-100-S0-4103	EAST L YARD EXPANSION, RAIL, REMOVAL PLAN - SHEET 4 OF 4	A
H362376-RW-100-S0-4601	EAST L YARD EXPANSION, COLUMBIA CONTAINERS CROSSING - MI 126.3, OVERVIEW	A
H362376-RW-100-S0-4602	EAST L YARD EXPANSION, COLUMBIA CONTAINERS CROSSING - MI 126.3, LAYOUT	A
H362376-RW-100-S0-4603	EAST L YARD EXPANSION, COLUMBIA CONTAINERS CROSSING - MI 126.3, SECTIONS - COMMISSIONER STREET	A
H362376-RW-100-S0-4604	EAST L YARD EXPANSION, COLUMBIA CONTAINERS CROSSING - MI 126.3, SECTIONS - TENANT ACCESS	A
H362376-RW-100-S0-5001	EAST L YARD EXPANSION, RAIL - PROFILE, TRACK K09	B
H362376-RW-100-S0-5002	EAST L YARD EXPANSION, RAIL - PROFILE, TRACK K02, TRACK K02 TO K01	B
H362376-RW-100-S0-5003	EAST L YARD EXPANSION, RAIL - PROFILE, TRACK K01 & TRACK K09/K10 CONNECTION	B
H362376-RW-100-S0-5004	EAST L YARD EXPANSION, RAIL - PROFILE, TRACK L29 & TRACK L28	B
H362376-RW-100-S0-5005	EAST L YARD EXPANSION, RAIL - PROFILE, TRACK L31 - SHEET 1	C
H362376-RW-100-S0-5006	EAST L YARD EXPANSION, RAIL - PROFILE, TRACK L31 - SHEET 2	C
H362376-RW-100-S0-5007	EAST L YARD EXPANSION, RAIL - PROFILE, COLUMBIA CONTAINERS LEAD TRACK	B
H362376-RW-100-S0-6001	EAST L YARD EXPANSION, RAIL - SECTIONS, SHEET 1 - STA 0+219.028 & 0+453.894	C
H362376-RW-100-S0-6002	EAST L YARD EXPANSION, RAIL - SECTIONS, SHEET 2 - STA 0+472.174	C
H362376-RW-100-S0-6003	EAST L YARD EXPANSION, RAIL - SECTIONS, SHEET 3 - STA 0+543.789 & 0+632.821	C
H362376-RW-100-S0-6004	EAST L YARD EXPANSION, RAIL - SECTIONS, SHEET 4 - STA 0+800.000 & 0+956.559	C
H362376-RW-100-S0-6005	EAST L YARD EXPANSION, RAIL - SECTIONS, SHEET 5 - STA 1+333.337	C
H362376-RW-100-S0-6006	EAST L YARD EXPANSION, RAIL - SECTIONS, SHEET 6 - STA 1+497.643 & 1+531.139	C

DRAWING LIST

PLAN NO.	DESCRIPTION	REVISION
H362376-RW-100-S0-6007	EAST L YARD EXPANSION, RAIL - SECTIONS, SHEET 7 - STA 1+685.961 & 1+865.672	C
H362376-RW-100-S0-6008	EAST L YARD EXPANSION, RAIL - SECTIONS, SHEET 8 - STA 1+955.701 & 2+031.878	C
H362376-RW-100-S0-6009	EAST L YARD EXPANSION, RAIL - SECTIONS, SHEET 9 - STA 2+295.000	C
H362376-RW-100-S0-7000 TO 7057	EAST L YARD EXPANSION, RAIL - GRADING SECTIONS	A
H362376-RW-100-S0-8010	EAST L YARD EXPANSION, RAIL, STAGING PLAN - STAGE 1, REMOVALS	A
H362376-RW-100-S0-8020	EAST L YARD EXPANSION, RAIL, STAGING PLAN - STAGE 2, PART A: K10 GRADING	A
H362376-RW-100-S0-8021	EAST L YARD EXPANSION, RAIL, STAGING PLAN - STAGE 2, PART B: L30 & L31 GRADING	A
H362376-RW-100-S0-8030	EAST L YARD EXPANSION, RAIL, STAGING PLAN - STAGE 3, K10 CONSTRUCTION	A
H362376-RW-100-S0-8040	EAST L YARD EXPANSION, RAIL, STAGING PLAN - STAGE 4, TRACK SHIFT - K01 & K02 SHIFT	A
H362376-RW-100-S0-8050	EAST L YARD EXPANSION, RAIL, STAGING PLAN - STAGE 5, TRACK SHIFT - K09 & K10 SHIFT	A
H362376-RW-100-S0-8060	EAST L YARD EXPANSION, RAIL, STAGING PLAN - STAGE 6, PART A: L30 & L31 TRACK CONSTRUCTION	A
H362376-RW-100-S0-8061	EAST L YARD EXPANSION, RAIL, STAGING PLAN - STAGE 6, PART B: L30 & L31 WEST CONNECTION	A
H362376-RW-100-S0-8070	EAST L YARD EXPANSION, RAIL, STAGING PLAN - STAGE 7, CCL UTILITY WORKS	A
H362376-RW-100-S0-8080	EAST L YARD EXPANSION, RAIL, STAGING PLAN - STAGE 8, PART A & B: DETOUR AND UTILITY PROTECTION	A
H362376-RW-100-S0-8081	EAST L YARD EXPANSION, RAIL, STAGING PLAN - STAGE 8, PART C & D: UTILITY PROTECTION & TRK CONSTRUCTION	A
H362376-RW-100-S0-8082	EAST L YARD EXPANSION, RAIL, STAGING PLAN - STAGE 8, PART E & F: DETOUR AND COMMISSIONING	A
H362376-RW-100-S0-8083	EAST L YARD EXPANSION, RAIL, STAGING PLAN - STAGE 8, PART G: CCL TRACK COMMISSIONING	A
H362376-RW-100-S0-8090	EAST L YARD EXPANSION, RAIL, STAGING PLAN - STAGE 9, PART A: PAVING AND L30 & L31 GRADING	A
H362376-RW-100-S0-8091	EAST L YARD EXPANSION, RAIL, STAGING PLAN - STAGE 9, PART B: L30 & L31 TRACK COMPLETION	A
H362376-DG-100-S0-3200	EAST L YARD EXPANSION, DRAINAGE, STRUCTURE AND CLEANOUT TABLES	A
H362376-DG-100-S0-6200	EAST L YARD EXPANSION, DRAINAGE, DETAILS - SHEET 1 OF 2	A
H362376-DG-100-S0-6201	EAST L YARD EXPANSION, DRAINAGE, DETAILS - SHEET 2 OF 2	A
H362376-UT-100-S0-4400	EAST L YARD EXPANSION, UTILITY CONFLICT PLAN - SHEET 1 OF 8	C
H362376-UT-100-S0-4401	EAST L YARD EXPANSION, UTILITY CONFLICT PLAN - SHEET 2 OF 8	C
H362376-UT-100-S0-4402	EAST L YARD EXPANSION, UTILITY CONFLICT PLAN - SHEET 3 OF 8	C
H362376-UT-100-S0-4403	EAST L YARD EXPANSION, UTILITY CONFLICT PLAN - SHEET 4 OF 8	C
H362376-UT-100-S0-4404	EAST L YARD EXPANSION, UTILITY CONFLICT PLAN - SHEET 5 OF 8	C
H362376-UT-100-S0-4405	EAST L YARD EXPANSION, UTILITY CONFLICT PLAN - SHEET 6 OF 8	C
H362376-UT-100-S0-4406	EAST L YARD EXPANSION, UTILITY CONFLICT PLAN - SHEET 7 OF 8	C
H362376-UT-100-S0-4407	EAST L YARD EXPANSION, UTILITY CONFLICT PLAN - SHEET 8 OF 8	C
H362376-SR-100-S0-1000	EAST L YARD EXPANSION, GENERAL STRUCTURAL NOTES	B
H362376-SR-100-S0-1001	EAST L YARD EXPANSION, STRUCTURES - RETAINING WALL GENERAL ARRANGEMENT	B
H362376-SR-100-S0-1002	EAST L YARD EXPANSION, STRUCTURES - PROTECTION SLAB GENERAL ARRANGEMENT	A
H362376-SR-100-S0-1003	EAST L YARD EXPANSION, STRUCTURES - PROTECTION SLAB REINFORCING PLAN & SECTIONS	A
H362376-SR-100-S0-1004	EAST L YARD EXPANSION, STRUCTURES - RETAINING WALL - DETAILS	
H362376-EL-100-S0-4001	EAST L YARD EXPANSION, VITERRA DERAIL CABINET, PLAN AND SECTION	A
H362376-EL-100-S0-4002	EAST L YARD EXPANSION, VITERRA DERAIL CABINET, DETAIL VIEWS	A

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **L.C.** DATE: **11-09-20**	DRAWN BY: **L.C.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **N/A**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
C	03-08-21	ISSUED FOR 90% DESIGN	P.S.
B	31-05-21	REISSUED FOR 30% DESIGN	B.B.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP

ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION GENERAL DRAWING INDEX

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H360165-GA-100-S0-1001 Rev. C

Aug 03 , 2021 , 7:44pm Login name: mcke92314
Drawing Name: C:\pwworking\hh\mcke92314\d0694063\H362376-GA-100-S0-1001.dwg

ABBREVIATIONS

&	AND	mph	MILES PER HOUR
@	AT	MS	STAINLESS STEEL BARS
AREMA	AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION	MW	WELDABLE GRADE BARS
APPROX	APPROXIMATE	N	NORTHING
AVE	AVENUE	N/A	NOT APPLICABLE
		NB	NORTH BOUND
BCH	BC HYDRO	NF	NEAR FACE
		NIC	NOT IN CONTACT
℄, C/L	CENTRELINE	No.,#	NUMBER, NUMBERS
C/C	CENTRE TO CENTRE	NTS	NOT TO SCALE
C/W	COMPLETE WITH		
CLR	CLEAR	OC	ON CENTRE
COL	COLUMN	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OPP	OPPOSITE
CONST	CONSTRUCTION		
CONT	CONTINUOUS	%	PER CENT
CONT'D	CONTINUED	PERF	PERFORATED
CP	CLEARANCE POINT	PERP	PERPENDICULAR
CSRR	COMMISSIONER STREET ROAD RELOCATION	PF	POINT OF FROG
		PL	PLATE
Dc	DEGREE OF CURVE	PROJ	PROJECTION
DIA,Ø	DIAMETER	PR, PROP	PROPOSED
DWG	DRAWING	PS	POINT OF SWITCH
		PT	POINT
E	EASTING		
EB	EASTBOUND	QTY	QUANTITY
EA	EACH		
EF	EACH FACE	R	RADIUS
EG	EXEMPLI GRATIA (FOR EXAMPLE)	RBM	RAILBOUND MANGANESE
EL, ELEV	ELEVATION	RD	ROAD
EOP	EDGE OF PAVEMENT	REF	REFERENCE
EQ	EQUAL	REINF	REINFORCING
ET	END OF TRACK	REQ'D	REQUIRED
EW	EACH WAY	REV	REVISION
EX, EXIST	EXISTING	RH	RIGHT HAND
EXP	EXPANSION	RW	RETAINING WALL
		R/W, R.O.W.	RIGHT-OF-WAY
FA	FAR FACE		
FG, FIN GRADE	FINISHED GRADE	SB	SUBBALLAST
FIN	FINISHED	SD	STORM DRAIN
FS	FINISHED SURFACE	SG	SUBGRADE
FT	FOOT OR FEET	SGL	SINGLE
FTG	FOOTING	SGM	SELF-GUARDED MANGANESE
		SHLD	SHOULDER
GALV	GALVANIZED	SHT	SHEET
GRP	GROUP	sp	SPECIAL / SWITCH POINT
		SPCS	SPACES
HS	HIGH STRENGTH	SS	STAINLESS STEEL
HWY	HIGHWAY	ST	STREET
		STA	STATION
ID	INSIDE DIAMETER	STD	STANDARD
IJ	INSULATED JOINT	SW	SWITCH
IN	INCH OR INCHES	S/B	SOUTH BOUND
INT DIAP	INTERMEDIATE DIAPHRAGM		
INV	INVERT	TBD	TO BE DETERMINED
		TC	TRACK CENTRES
JT	JOINT	TEMP	TEMPORARY
		THEO	THEORETICAL
KPH	KILOMETRES PER HOUR	THK	THICK
		TO	TURNOUT
lb	POUND	T/R	TOP OF RAIL ELEVATION
LG	LONG	TRK	TRACK
LONGIT	LONGITUDINAL	TYP	TYPICAL
LH	LEFT HAND		
LST	LAST SWITCH TIE	UNO	UNLESS NOTED OTHERWISE
		U/S	UNDERSIDE
m	METRE, METRES		
mm	MILLIMETRE, MILLIMETRES	VERT	VERTICAL
MAX	MAXIMUM		
MB	EPOXY COATED BARS	WB	WESTBOUND
MF	MID FACE	W/	WITH
MFX	MFX BAR	W/O	WITHOUT
MG	GALVANIZED BARS	WP	WORK POINT
MH	MANHOLE		
MIN	MINIMUM	X-ING, XING	CROSSING
MK	MARK	XOVER	CROSSOVER

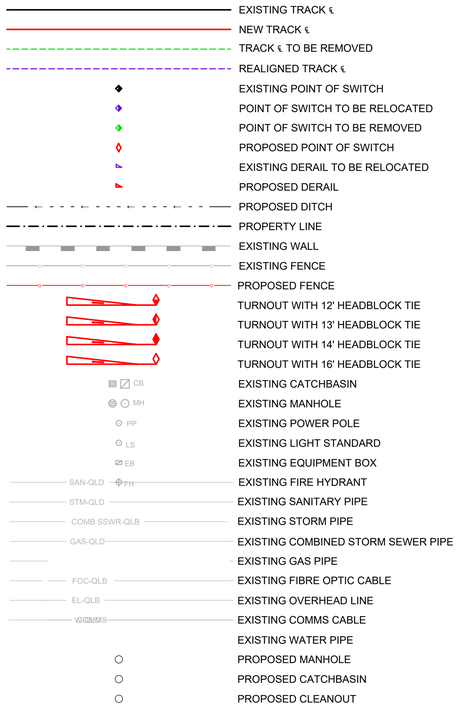
TRACK ALIGNMENT HORIZONTAL

Δ	TOTAL CENTRAL ANGLE OF CIRCULAR CURVE
BC	BEGINNING OF CURVE
CS	CURVE TO SPIRAL POINT
EC	END OF CURVE
LS	LENGTH OF SPIRAL
PI	POINT OF INTERSECTION OF TWO TANGENTS
PITO	POINT OF INTERSECTION OF TURNOUT
R	RADIUS
SC	SPIRAL TO CURVE POINT
ST	SPIRAL TO TANGENT POINT
T	TANGENT LENGTH
TS	TANGENT TO SPIRAL POINT

TRACK ALIGNMENT VERTICAL

A	CHANGE IN GRADE
LVC	LENGTH OF VERTICAL CURVE
PVC	START OF VERTICAL CURVE
PVT	START OF VERTICAL TANGENT
PVI	POINT OF INTERSECTION OF TWO PROFILE TANGENTS

LEGEND



EXISTING TRACK ℄
NEW TRACK ℄
TRACK ℄ TO BE REMOVED
REALIGNED TRACK ℄
EXISTING POINT OF SWITCH
POINT OF SWITCH TO BE RELOCATED
POINT OF SWITCH TO BE REMOVED
PROPOSED POINT OF SWITCH
EXISTING DERAIL TO BE RELOCATED
PROPOSED DERAIL
PROPOSED DITCH
PROPERTY LINE
EXISTING WALL
EXISTING FENCE
PROPOSED FENCE
TURNOUT WITH 12' HEADBLOCK TIE
TURNOUT WITH 13' HEADBLOCK TIE
TURNOUT WITH 14' HEADBLOCK TIE
TURNOUT WITH 16' HEADBLOCK TIE
EXISTING CATCHBASIN
EXISTING MANHOLE
EXISTING POWER POLE
EXISTING LIGHT STANDARD
EXISTING EQUIPMENT BOX
EXISTING FIRE HYDRANT
EXISTING SANITARY PIPE
EXISTING STORM PIPE
EXISTING COMBINED STORM SEWER PIPE
EXISTING GAS PIPE
EXISTING FIBRE OPTIC CABLE
EXISTING OVERHEAD LINE
EXISTING COMMS CABLE
EXISTING WATER PIPE
PROPOSED MANHOLE
PROPOSED CATCHBASIN
PROPOSED CLEANOUT

NOT FOR CONSTRUCTION

HATCH

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DESIGNED BY: **L.C.** DATE: **11-09-20**	DRAWN BY: **L.C.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **N/A**

PROFESSIONAL SEALS

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CP

ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
GENERAL
ABBREVIATIONS AND LEGEND

DWG, BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR, PROJECT SERVICES WEST	PLAN No. H360165-RW-100-S0-1005 Rev. C

Aug 03 , 2021 , 9:17am Login name: shobl1128
Drawing Name: C:\pwworking\hl\aastha.shobel@hatch.com\d0694\l9391362376-GA-100-S0-1005.dwg

GENERAL NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. DRAWING IS IN UTM COORDINATES, ZONE 10N. SURVEY COMPLETED BY UNDERHILL GEOMATICS LTD. DRAWING V19131-TOP-01-U-R4 DATED 05/06/2020.
3. TO COMPUTE GROUND LEVEL COORDINATES, DIVIDE UTM COORDINATES BY THE COMBINED FACTOR OF 0.9996020642.
4. AECOM SURVEY AND DESIGN FOR CSRR PROJECT PROVIDED IN LOCAL GROUND COORDINATE SYSTEM AND HAVE BEEN SCALED TO UTM NAD83 COORDINATES TO INTEGRATE WITH RAIL CORRIDOR SURVEY AND DESIGN. AECOM SURVEY AND DESIGN FILES SCALED USING GROUND TO GRID SCALING FACTOR 0.9996025 ABOUT MON V-3898 LOCATED AT N: 5459856.531 E: 495871.394.
5. ELEVATIONS ARE IN METRES, TO GEODETIC DATUM.
6. THE EXISTENCE, LOCATION AND ELEVATION OF UTILITIES AND/OR CONCEALED STRUCTURES AT THE PROJECT SITE ARE NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND/OR STRUCTURES AND IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE COMPANY, DEPARTMENT OR PERSON(S) OF ITS INTENTION TO CARRY OUT ITS OPERATIONS.
7. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE RELOCATIONS REQUIRED BY THIS CONTRACT.
8. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER TERMS OF CONSTRUCTION.
9. CONTRACTOR MUST MAINTAIN POSITIVE DRAINAGE AT ALL TIMES. DRAINAGE MUST NOT BE DIRECTED OFF-SITE UNLESS INDICATED ON THE PLANS.
10. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MAINTAINING, & REMOVING ANY TEMPORARY FACILITIES NECESSARY TO ACCESS THE SITE, INCLUDING, BUT NOT LIMITED TO, FENCES, GATES, CULVERTS, GRANULAR, SILT FENCES, & TRAFFIC CONTROL DEVICES.
11. THE CONTRACTOR MUST LIMIT MOVEMENT OF CONSTRUCTION TRAFFIC TO WITHIN THE CONSTRUCTION LIMITS. ANY AND ALL DAMAGE TO EXISTING FACILITIES (INCL. BUT NOT LIMITED TO FENCES, PAVEMENT, CULVERTS, ETC.) WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
12. THE CONTRACTOR MUST NOT REMOVE OR ADJUST ANY FENCES, NOR ENTER ADJACENT PROPERTIES WITHOUT THE APPROVAL OF THE ENGINEER.
13. ALL RAILWAY SIGNS (EX. MILE MARKERS, SPEED SIGNS, EQUIPMENT DETECTOR SIGN, ETC.) THAT MUST BE REMOVED SHALL BE RE-INSTALLED OR STORED IMMEDIATELY, ALL TO THE SATISFACTIONS OF THE ENGINEER.
14. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING ACCESS TO THE SITE. ALL CONSTRUCTION ACCESSES FROM THE ROADWAY SHALL BE INCORPORATED IN THE TRAFFIC MANAGEMENT PLAN AND APPROVED BY CP AND VFPA PRIOR TO CONSTRUCTION. ALL MODIFICATIONS TO THE ROADWAY SHALL BE REINSTATED TO THE ORIGINAL CONDITION UPON CONSTRUCTION COMPLETION.
15. THE CONTRACTOR IS ADVISED THAT THERE ARE POWER, FIBRE OPTIC, AND SIGNAL CABLES WITHIN THE CONSTRUCTION LIMITS. THESE CABLES MAY BE UNPROTECTED AND MUST BE IDENTIFIED PRIOR TO ANY EXCAVATION. THESE UTILITIES MAY BE UNREGISTERED WITH BC ONE CALL. SPECIAL CARE MUST BE TAKEN TO ENSURE THAT THE CABLES ARE MARKED AND PROTECTED.

TRACKWORK NOTES

1. TRACK CENTRES LISTED ON DRAWINGS ARE NOMINAL DIMENSIONS. FOR EXACT TRACK LAYOUT REFER TO TRACK ALIGNMENT DATA.
2. TRACK CURVES ARE DEFINED BY CHORD DEFINITION.
3. NEW RAIL SHALL BE 136lb RE CONTINUOUS WELDED RAIL UNLESS OTHERWISE NOTED.
4. DESIGN SPEED FOR YARD TRACKS IS 15mph.
5. TRACK DESIGN IN ACCORDANCE WITH THE FOLLOWING:
   a) CP ENGINEERING GUIDELINES FOR PRIVATE SIDING DESIGN AND CONSTRUCTION.
   b) AREMA, CURRENT EDITION

UTILITY NOTES

1. THE COLLECTION AND DEPICTION OF INFORMATION SHOWN ON THIS DRAWINGS CONFORMS TO THE PROVISIONS OF CI/ ASCE 38-02, STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA.
2. BASE MAP WAS PROVIDED BY UNDERHILL IN JULY 2020, AND IS SHOWN IN GREY. EXISTING SUBSURFACE UTILITY INFORMATION SHOWN IS COMBINED FROM VFPA GIS DATA, AS-BUILT UTILITY DRAWINGS, AND ON-SITE UTILITY LOCATES.
3. CONTRACTORS ARE REQUIRED TO OBTAIN THEIR OWN LOCATE DATA PRIOR TO ANY EXCAVATION.
4. ALL UTILITY INFORMATION SHALL BE VERIFIED AND CONFIRMED ON SITE BY THE CONTRACTOR.
5. ALL MILEAGES ARE APPROXIMATE.
6. UTILITY OWNERS TO BE CONSULTED PRIOR TO FINALIZATION OF RELOCATION STRATEGY. CONTRACTOR TO COORDINATE ALL CONSENT REQUIREMENTS FROM UTILITY OWNERS. ANY MODIFICATIONS TO UTILITIES BY CONTRACTOR REQUIRES ENGINEER, VFPA, AND UTILITY OWNER'S APPROVAL.
7. SIZE OF BURIED CABLES AND TELECOMMUNICATION UTILITIES INDICATES THE NOMINAL WIDTH OF THE DUCT OR PIPE AND TO BE FIELD VERIFIED.

ENVIRONMENTAL MANAGEMENT

1. THE CONTRACTOR TO CONFORM TO THE ENVIRONMENTAL MANAGEMENT PLAN TO BE PREPARED BY THE OWNER.
2. THE OWNER (CP) WILL HAVE AN ENVIRONMENTAL MONITOR ON SITE DURING GRADING OPERATIONS TO ENSURE THE OWNERS ENVIRONMENTAL STANDARD PRACTICE CIRCULARS (SPCS) AND BEST MANAGEMENT PRACTICES (BMPS) ARE IMPLEMENTED AND ADHERED TO. THE OWNER'S ENVIRONMENTAL MONITOR SHALL HAVE THE OWNER'S FULL AUTHORITY TO ALTER OR HALT ALL CONSTRUCTION ACTIVITY THAT IS DEEMED TO BE DETRIMENTAL TO THE ENVIRONMENT.
3. THE CONTRACTOR SHALL REGULARLY MONITOR, MAINTAIN AND REPAIR ALL SEDIMENT CONTROL MEASURES INDICATED ON THE DRAWINGS, SPECIFICATIONS AND/OR REQUIRED BY THIS ENVIRONMENTAL MANAGEMENT SECTION, AS NECESSARY, TO ENSURE THEY ARE WORKING EFFECTIVELY. IF DAMAGE IS OBSERVED, THE CONTRACTOR SHALL IMMEDIATELY MAKE REPAIRS AS REQUIRED. THESE COMPONENTS SHALL BE MAINTAINED UNTIL THE WORK AREAS ARE COMPLETELY STABILIZED AND THERE IS NO LONGER A RISK OF SEDIMENT RELEASE TO ADJACENT AREAS.
4. THE CONTRACTOR SHALL MINIMIZE THE DURATION OF SOIL EXPOSURE THROUGH IMPLEMENTATION OF AN EFFECTIVELY STAGED CONSTRUCTION PLAN.
5. THE CONTRACTOR SHALL KEEP ALL STOCKPILED MATERIAL ON STABLE GROUND AWAY FROM DESIGNATED AREAS OF ENVIRONMENTAL AND OR ARCHAEOLOGICAL SENSITIVITY.
6. THE CONTRACTOR SHALL BE PREPARED FOR EMERGENCY EROSION PROTECTION AND SHALL HAVE PERSONNEL AND EQUIPMENT ON STANDBY ON-SITE TO HANDLE POTENTIAL EMERGENCIES.
7. THE CONTRACTOR SHALL STABILIZE EXCAVATIONS AS SOON AS PRACTICAL BY BACKFILLING OR SHORING.
8. THE CONTRACTOR SHALL HALT GRADING WORK DURING PERIODS OF HEAVY RAINFALL.
9. THE CONTRACTOR SHALL REPORT ALL ENVIRONMENTAL INCIDENTS TO THE OWNER IMMEDIATELY.

UTILITY QUALITY LEVEL:

1. THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS WAS COLLECTED IN ACCORDANCE TO CI-ASCE 38-02 (STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUB-SURFACE DATA).
   ——————UTILITY–QLB —————— - QUALITY LEVEL "B"
   ——————UTILITY–QLC —————— - QUALITY LEVEL "C"
   ——————UTILITY–QLD —————— - QUALITY LEVEL "D"
2. THE INFORMATION IS SHOWN BY QUALITY LEVEL, AS DEFINED BELOW;

INCREASED QUALITY ▽

QUALITY LEVEL "D" - INFORMATION DERIVED FROM EXISTING RECORDS OR VERBAL RECOLLECTIONS

QUALITY LEVEL "C" - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE GROUND FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION WITH EXISTING UTILITY RECORDS

QUALITY LEVEL "B" - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHOD TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF THE UTILITIES

QUALITY LEVEL "A" - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES

DRAINAGE NOTES

GENERAL NOTES:

1. UNLESS OTHERWISE NOTED, WHOLE NUMBERS INDICATE MILLIMETRES, DECIMALIZED NUMBERS INDICATE METERS.

ENVIRONMENTAL CONSIDERATIONS:

1. CONTRACTOR TO GRADE AND MAINTAIN WORK SITE AREA AS NECESSARY IN ORDER CARRY OUT THE PIPE INSTALLATION OR EXTENSION.

PIPE CHARACTERISTICS:

1. DESIGN LOAD : E80 + IMPACT.
2. DURABILITY BASED ON 75 YEAR SERVICE LIFE.
3. CORRUGATED HDPE PIPE SHALL BE ADS DUAL WALL N-12 ST IB PIPE (IN ACCORDANCE WITH CSA B182.8) OR APPROVED EQUIVALENT.
4. PERFORATION PATTERN: PERFORATIONS TO BE IN ACCORDANCE WITH AASHTO M294 ON THE TOP HALF OF THE CORRUGATED HDPE PIPES.

HDPE PIPES TRENCH NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL.
3. WHERE THE TRENCH BOTTOM IS UNSTABLE, EXCAVATE UNSUITABLE MATERIAL TO THE REQUIRED DEPTH AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE SITE ENGINEER. DEPTH OF FOUNDATION IMPROVEMENT MAY BE REDUCED BY USE OF GEOTEXTILE FABRIC AND GRID. REQUIRED TRENCH WIDTH MAY INCREASE WHEN FOUNDATION MATERIAL IS MODIFIED.
4. SOLID PIPE: MINIMUM BEDDING THICKNESS SHALL BE 100mm FOR 300-600mm DIAMETER PIPES. THE MIDDLE THIRD OF THE BEDDING SHALL BE LOOSE AND UNIFORM IN DEPTH AND CONSISTENCY. AFTER PIPE IS IN PLACE, PLACE AND COMPACT BEDDING. BEDDING TO BE 25mm WELL GRADED BASE COURSE AGGREGATE AS PER TABLE 202-C COMPACTION REQUIREMENTS AS PER SECTION 202.34.02 SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2004).
5. WHERE BACKFILL MAY BECOME SATURATED AFTER PLACEMENT, ONLY 25mm WELL GRADED BASE COURSE AGGREGATE BEDDING AND BACKFILL SHOULD BE USED AS PER TABLE 202-C. COMPACTION REQUIREMENTS AS PER SECTION 202.34.02 SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2004).
6. PERFORATED PIPE BEDDING AND BACKFILL TO BE 19mm DIA. CLEAR CRUSH WASHED DRAIN ROCK. CLEAR CRUSH WASHED DRAIN ROCK TRENCH TO BE WRAPPED IN LP-8 NON-WOVEN GEOTEXTILE, OR APPROVED EQUIVALENT WITH A MIN. OF 300mm OVERLAP.
7. FLUSH OR CLEAN PIPE AFTER CONSTRUCTION COMPLETION.
8. ALL FITTINGS ARE FOR N12 DUAL WALL PIPE OR APPROVED EQUIVALENT. FITTINGS TO BE BELL X BELL WATER TIGHT.
9. ALL SUBDRAINS TRENCHES TO BE PLACED AT EDGE OF SUBBALLAST. REFER TO DWG H362376-DG-100-S0-6201 FOR CLEANOUT NOTES.

MANHOLES AND CATCH BASINS:

1. MANHOLES TO BE SIZED AS PER BC MOT SP582-03.04 AND BUILT TO WITHSTAND E-80 LOADING. BEDDING TO BE 300mm COMPACTED 25mm WELL GRADED BASE COURSE AGGREGATE. SOLID MANHOLE FRAME AND COVER TO BE AS PER SP582-06.01
2. CATCH BASINS TO BE AS PER BC MOT SP582-02.02 AND BUILT TO WITHSTAND E-80 LOADING. BEDDING TO BE 300mm COMPACTED 25mm WELL GRADED BASE COURSE AGGREGATE. INSTALL LANGLEY CONCRETE GROUP SOLID TR26A FRAME AND GRATE OR APPROVED EQUIVALENT.
3. BACKFILL WITH 25mm WELL GRADED BASE COURSE AGGREGATE.
4. INSTALL 1m X 1m PIECE OF SILTATION CONTROL FENCE INSIDE THE CATCH BASIN GRATE UPON COMPLETION.

GEOTECHNICAL NOTES

1. PLACE SUBBALLAST TO DESIGN LINES BETWEEN STA 2+130 AND 2+230.
2. INSTALL ONE SETTLEMENT MONITORING GAUGE EACH OF THE FOLLOWING STATIONS: STA 2+165, 2+180, AND 2+195. GAUGES TO BE PLACED MIDPOINT BE L30 AND L31.
3. PERFORM SETTLEMENT READINGS EVERY 2 DAYS FOR TWO WEEKS AFTER PLACING FILL AND PROVIDE READINGS TO THE ENGINEER. READINGS TO INCLUDE VERTICAL AND HORIZONTAL MOVEMENT DURING MONITORING.
4. 150mm OF SETTLEMENT IS ANTICIPATED WITHIN TWO WEEKS OF SUBBALLAST PLACEMENT. ADD ADDITIONAL SUBBALLAST TO TOP OF DESIGN LINES AS DIRECTED BY THE ENGINEER.
5. REPLACE SUBBALLAST MONITORING GAUGES WITH TRACK MOUNTED MONITORING GAUGES AFTER SKELETON TRACK ASSEMBLY AND PRIOR TO BALLAST PLACEMENT.
6. PERFORM WEEKLY SETTLEMENT MONITORING FOR FOUR WEEKS FOLLOWING TRACK CONSTRUCTION AND PROVIDE READINGS TO THE ENGINEER.
7. 50mm OF SETTLEMENT IS ANTICIPATED AFTER TRACK AND BALLAST HAVE BEEN PLACED. RESURFACE TRACK AS DIRECTED BY THE ENGINEER.

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **L.C.** DATE: **11-09-20**	DRAWN BY: **L.C.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **N/A**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
C	03-08-21	ISSUED FOR 90% DESIGN	P.S.
B	31-05-21	REISSUED FOR 30% DESIGN	B.B.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

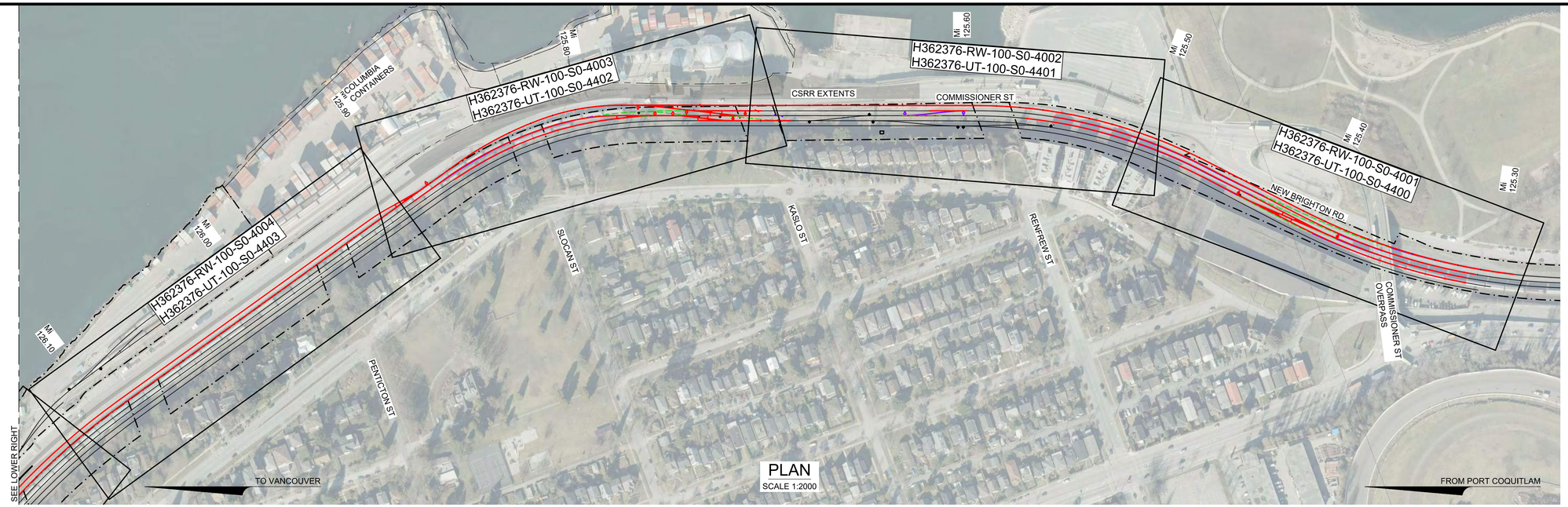
CP
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

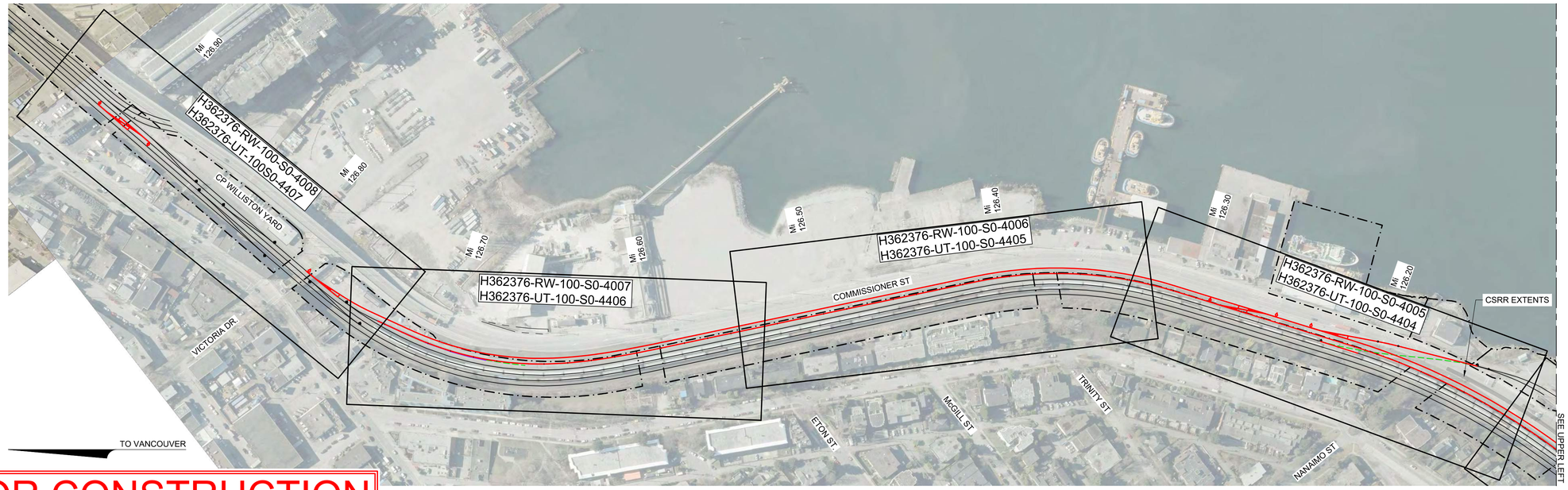
EAST L YARD EXPANSION GENERAL NOTES

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE: DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H360165-GA-100-S0-1010 Rev. C

Aug 03 , 2021 6:58pm Login name: mcke92314
Drawing Name: C:\pwworking\vi\mcke92314\d0694063\H362376-GA-100-S0-1010.dwg



PLAN
SCALE 1:2000



PLAN
SCALE 1:2000

20 m 0 1:2000 100 m

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **A.S.** DATE: **06-30-21**	DRAWN BY: **A.S.** DATE: **06-30-21**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:2000**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
C	03-08-21	ISSUED FOR 90% DESIGN	A.S.
B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP

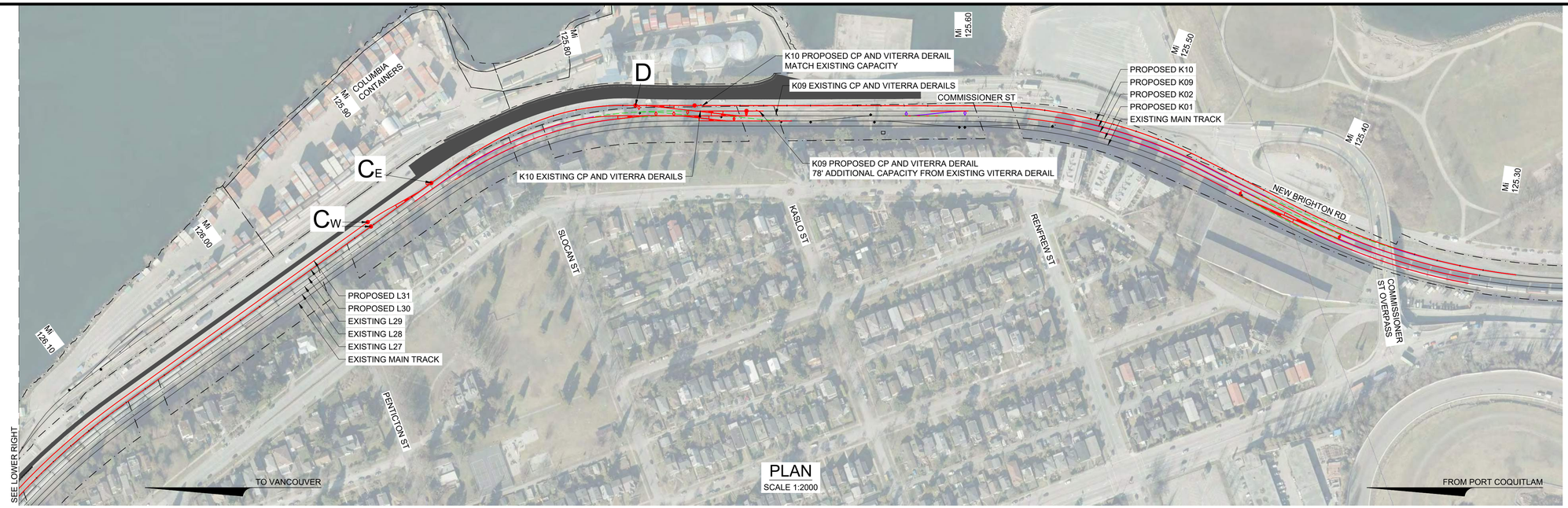
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION GENERAL KEY PLAN

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR, PROJECT SERVICES WEST	PLAN No. H362376-GA-100-S0-2001 Rev. C

Aug 03 , 2021 , 9:24am Login name: shob11128
Drawing Name: C:\pwworking\h\\posha.shoberi@hatch.com\d0694063\H362376-GA-100-S0-2001.dwg



PLAN
SCALE 1:2000

PLAN
SCALE 1:2000

20 m 0 1:2000 100 m

CAPACITY	L30	L31
A - B_W	666m (2185')	717m (2353')
B_E - C_W	524m (1721')	447m (1468')
C_E - D	190m (625')	N/A
A - C_W	1254m (4115')	1303m (4277')
A - D	1508m (4948')	N/A

NOTE: ALL CAPACITY DISTANCES ARE ROUNDED DOWN TO THE NEAREST WHOLE UNIT AND REPRESENT CAPACITY BETWEEN CLEARANCE POINTS.

● CLEARANCE POINT

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
A.S. DATE: **06-30-21**	**A.S.** DATE: **06-30-21**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:2000**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
C	03-08-21	ISSUED FOR 90% DESIGN	A.S.
B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

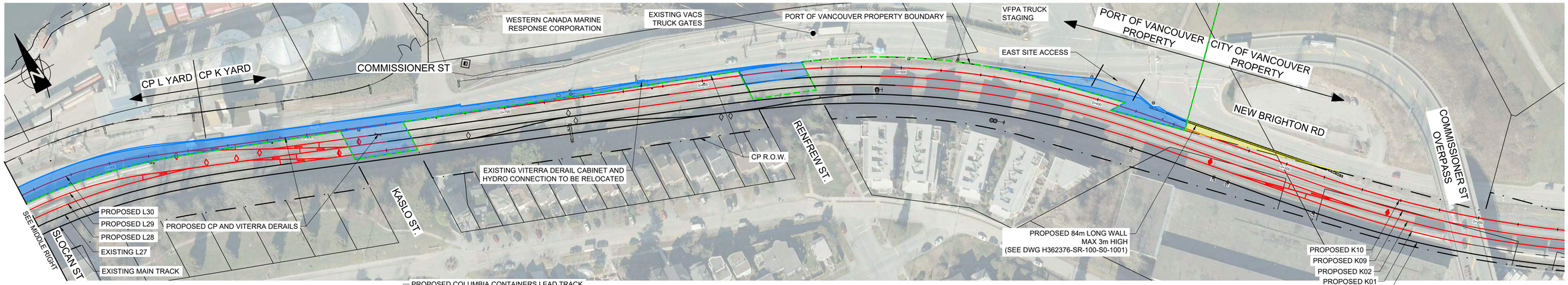
CP
ENGINEERING PROJECTS - WEST

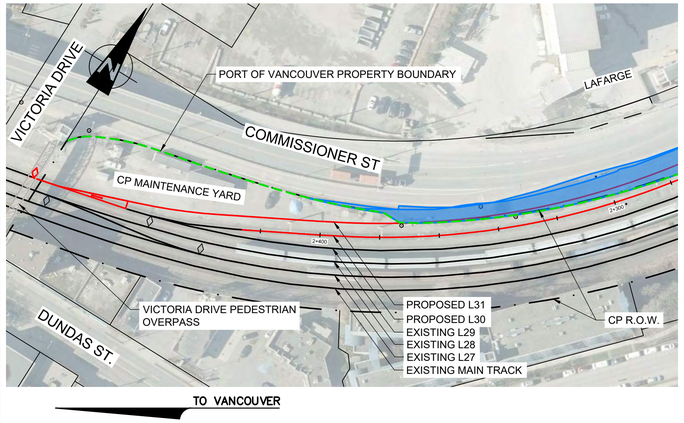
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

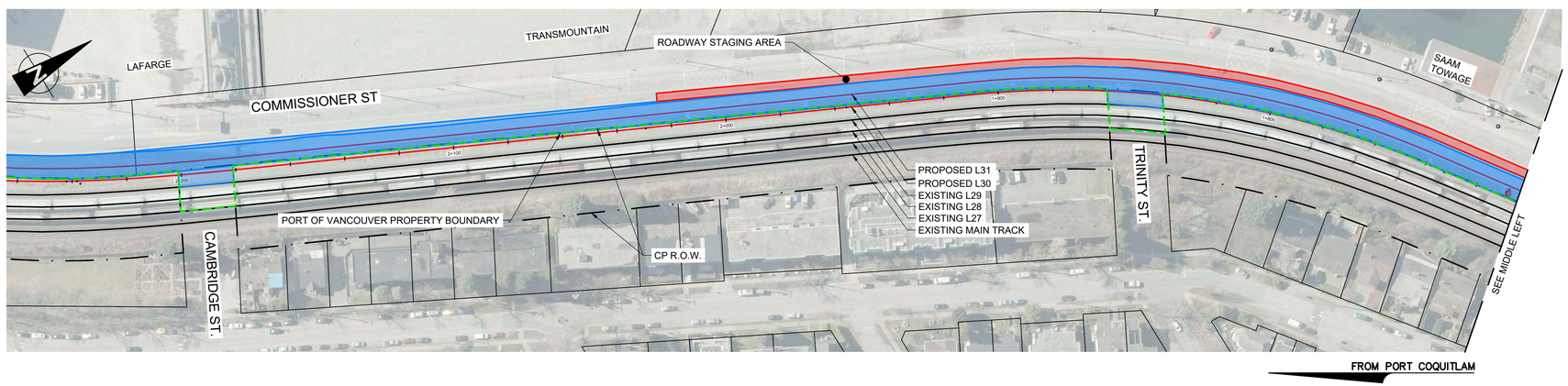
EAST L YARD EXPANSION GENERAL TRACK CAPACITY

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-GA-100-S0-2002	Rev. C

Aug 04 , 2021 - 9:46am Login name: mcke92314
Drawing Name: C:\pwworking\rh\mcke92314\d0694063\H362376-GA-100-S0-2001.dwg







PLAN

SCALE 1:1000

10 m 0 1:1000 50 m

LEGEND:

- VFPA LAND TENURE
- CITY OF VANCOUVER LAND TENURE
- STAGING AREA

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
A.S. DATE: 06-30-21	A.S. DATE: 06-30-21
CHECKED BY: V.C. DATE: 04-09-20	PROJECT MANAGER: V.C. DATE: 04-09-20
HATCH PROJECT No: H362376	DWG SCALE(FULL SIZE): 1:1000

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
C	05-10-21	REISSUED FOR 90% DESIGN	A.S.
B	24-09-21	REISSUED FOR 90% DESIGN	A.S.
A	03-08-21	ISSUED FOR 90% DESIGN	A.S.

ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.27 TO 127.00 CASCADE SUBDIVISION

COMMISSIONER STREET RAIL EXPANSION GENERAL SITE PLAN

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-GA-100-S0-2100	Rev. C

Nov 17 , 2021 , 4:43pm Login name: DU831563
Drawing Name: C:\pwworking\hi\du831563\d0694063\H362376-GA-100-S0-2100.dwg

PROPOSED TRACK K10/L30																							
POINT	CURVE NUMBER	STATION	NORTHING	EASTING	LENGTH	PI STATION	PI NORTHING	PI EASTING	RADIUS	Dc	CHORD DIRECTION	DELTA	BEARING	SHORT TANGENT	LONG TANGENT	A	P	K	RADIUS IN	RADIUS OUT	SPI STATION	SPI NORTHING	SPI EASTING	ELEMENT
BC	C14	0+091.670	5459597.588	497165.709	190.978	0+188.182	5459641.222	497079.624	536.044	3°15'30"	N52° 54' 52.48"W	20°24'46.60"												
EC		0+282.648	5459712.141	497014.163	90.899								N42° 42' 29.18"W											
BC	C15	0+373.548	5459778.935	496952.510	203.962	0+477.473	5459855.301	496882.021	431.294	4°03'00"	N56° 15' 21.23"W	27°05'44.11"												
EC		0+577.510	5459891.180	496784.486	304.008								N69° 48' 13.29"W											
BC	C16	0+881.518	5459996.135	496499.169	65.965	0+914.822	5460020.235	496433.654	194.241	9°00'00"	N79° 31' 57.66"W	19°27'28.75"												
PCC	C16A	0+947.484	5460008.062	496434.613	84.817	0+990.181	5460020.235	496433.654	298.124	5°51'38"	N82° 35' 16.54"W	16°18'02.84"												
EC		1+032.301	5459997.157	496350.788	354.192								S74° 26' 15.12"W											
BC	C17	1+386.493	5459902.131	496009.581	198.0192	1+486.468	5459875.309	495913.271	582.192	3°00'00"	S64° 41' 36.96"W	19°29'16.33"												
EC		1+584.512	5459817.894	495831.426	154.204								S54° 56' 58.79"W											
BC	C18	1+738.716	5459729.335	495705.188	171.233	1+826.210	5459679.087	495633.561	338.123	5°10'00"	S40° 26' 30.37"W	29°00'56.84"												
EC		1+909.949	5459600.404	495595.296	258.179								S25° 56' 01.95"W											
TS	C19	2+168.128	5459368.223	495482.386	125.000							13°49'58.94"		41.899	83.589	179.886	2.510	62.379	INFINITY	258.872	2+251.717	5459293.052	495445.830	
SC		2+293.128	5459260.846	495419.028	89.735	2+338.450	5459238.350	495419.228	258.872	6°45'00"	S49° 41' 50.53"W	19°51'39.27"												
CS		2+382.863	5459203.093	495350.935	25.000							2°45'59.79"		8.335	16.669	80.447	0.101	12.499	258.872	INFINITY	2+391.198	5459198.879	495343.743	
ST		2+407.863	5459191.155	495328.972	18.587								S62° 23' 39.95"W											
BC	C20	2+426.450	5459182.542	495312.501	30.990	2+441.459	5459175.344	495298.736	179.838	9°43'21"	S67° 19' 51.65"W	9°52'23.40"												
EP		2+457.440	5459170.613	495283.941																				

PROPOSED TRACK K09														
POINT	CURVE NUMBER	STATION	NORTHING	EASTING	LENGTH	PI STATION	PI NORTHING	PI EASTING	RADIUS	Dc	CHORD DIRECTION	DELTA	BEARING	ELEMENT
BC	C2	2+001.912	5459608.887	497134.838	154.209	2+078.676	5459646.979	497068.191	510.000	3°25'29"	N51° 28' 40.01"W	17°32'21.67"		
EC		2+156.121	5459704.791	497014.828	96.509								N42° 42' 29.18"W	
BC	C7	2+252.630	5459775.708	496949.370	135.731	2+355.924	5459851.610	496879.309	427.774	4°05'00"	N56° 17' 00.00"W	27°09'01.65"		
EC		2+388.361	5459859.297	496843.155									N69° 51' 30.83"W	

PROPOSED TRACK K02 TO K01 CROSSOVER														
POINT	CURVE NUMBER	STATION	NORTHING	EASTING	LENGTH	PI STATION	PI NORTHING	PI EASTING	RADIUS	Dc	CHORD DIRECTION	DELTA	BEARING	ELEMENT
BP		3+000.000	5459607.872	497128.189	1.484								N59° 36' 46.07"W	
BC	C3	3+001.484	5459608.623	497126.908	114.156	3+058.812	5459637.621	497077.456	500.000	3°29'36"	N53° 04' 19.69"W	13°04'52.76"		
EC		3+115.641	5459677.060	497035.851	82.429								N46° 31' 53.31"W	
PITO		3+198.070	5459733.768	496976.028	12.180								N42° 42' 47.31"W	
PS		3+210.250	5459742.717	496967.766									N42° 42' 47.31"W	No. 15 LH TURNOUT

PROPOSED TRACK K02														
POINT	CURVE NUMBER	STATION	NORTHING	EASTING	LENGTH	PI STATION	PI NORTHING	PI EASTING	RADIUS	Dc	CHORD DIRECTION	DELTA	BEARING	ELEMENT
PS		4+000.000	5459678.487	497034.346	12.181								N46° 31' 53.31"W	No. 15 LH TURNOUT
PITO		4+012.181	5459686.866	497025.506	115.792								N42° 42' 47.31"W	
BC	C8	4+127.972	5459771.945	496946.961	158.299	4+231.602	5459848.088	496876.666	429.527	4°04'00"	N56° 16' 38.50"W	27°07'42.39"		
EC		4+286.271	5459866.078	496820.806									N69° 50' 29.70"W	

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: 11-09-20	**A.S.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **N/A**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
C	03-08-31	ISSUED FOR 90% DESIGN	F.D.
B	31-05-21	REISSUED FOR 30% DESIGN	B.B.
A	11-09-20	ISSUED FOR 30% DESIGN	M.K.G.

ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD
RAIL
ALIGNMENT DATA CONTROL - SHEET 1

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362676-RW-100-S0-3001	Rev. C

Aug 03 , 2021 , 5:14pm Login name: mcke92314
Drawing Name: C:\pwworking\hi\mcke92314\d0694048\H362676-RW-100-S0-3001 TO 3003.dwg

PROPOSED K01														
POINT	CURVE NUMBER	STATION	NORTHING	EASTING	LENGTH	PI STATION	PI NORTHING	PI EASTING	RADIUS	Dc	CHORD DIRECTION	DELTA	BEARING	ELEMENT
BP		5+000.000	5459604.204	497126.071	1.270								N59° 35' 58.42"W	
BC	C4	5+001.270	5459604.847	497124.975	150.309	5+076.973	5459643.156	497059.681	510.000	3°25'29"	N51° 09' 22.86"W	16°53'11.11"		
EC		5+151.579	5459698.779	497008.329	93.642								N42° 42' 47.31"W	
BC	C5	5+245.221	5459767.584	496944.809	54.599	5+349.153	5459843.948	496874.309	433.075	4°02'00"	N56° 12' 28.88"W	26°59'23.15"		
EC		5+299.820	5459805.263	496905.346									N69° 42' 10.46"W	

PROPOSED TRACK L31																							
POINT	CURVE NUMBER	STATION	NORTHING	EASTING	LENGTH	PI STATION	PI NORTHING	PI EASTING	RADIUS	Dc	CHORD DIRECTION	DELTA	BEARING	SHORT TANGENT	LONG TANGENT	A	P	K	RADIUS IN	RADIUS OUT	SPI STATION	SPI NORTHING	SPI EASTING	ELEMENT
PS		6+000.000	5459988.974	496321.406	9.030								S74° 26' 15.12"W											No. 9 RH TURNOUT
PITO		6+009.030	5459986.552	496312.707	31.050								S80° 47' 50.12"W											
BC	C13	6+040.080	5459981.586	496282.057	20.428	6+050.304	5459979.951	496271.964	184.040	9°30'00"	S77° 37' 02.62"W	6°21'35.00"												
EC		6+060.508	5459977.208	496262.114	263.567								S74° 26' 15.12"W											
BC	C14	6+324.135	5459906.479	496008.152	198.019	6+424.110	5459879.657	495911.842	582.192	3°00'00"	S64° 41' 36.96"W	19°29'16.33"												
EC		6+522.154	5459822.242	495829.998	157.061								S54° 56' 58.79"W											
BC	C17	6+679.215	5459732.042	495701.420	171.233	6+766.709	5459681.795	495629.793	338.123	5°10'00"	S40° 26' 30.37"W	29°00'56.84"												
EC		6+850.447	5459603.111	495591.529	257.461								S25° 56' 01.95"W											
TS	C19	7+107.908	5459371.577	495478.933	125.000							13°49'58.94"		41.899	83.589	179.886	2.510	62.379	INFINITY	258.872	7+191.497	5459296.405	495442.376	
SC		7+232.908	5459264.199	495415.575	89.736	7+278.231	5459241.703	495415.775	258.872	6°45'00"	S49° 41' 51.09"W	19°51'40.40"												
CS		7+322.644	5459206.446	495347.480	25.000							2°45'59.79"		8.335	16.669	80.447	0.101	12.499	258.872	INFINITY	7+330.980	5459202.232	495340.289	
ST		7+347.644	5459194.508	495325.518	24.599								S62° 23' 41.08"W											
BC	C21	7+372.244	5459183.109	495303.719	28.097	7+386.317	5459176.588	495291.248	194.241	9°00'00"	S66° 32' 19.07"W	8°17'15.98"												
EC		7+400.340	5459171.933	495277.968	26.717								S70° 40' 57.06"W											
PITO		7+427.058	5459163.094	495252.754	19.030								S77° 02' 32.06"W											
PS		7+446.088	5459158.827	495234.209																				No. 9 RH TURNOUT

PROPOSED COLUMBIA CONTAINER LEAD														
POINT	CURVE NUMBER	STATION	NORTHING	EASTING	LENGTH	PI STATION	PI NORTHING	PI EASTING	RADIUS	Dc	CHORD DIRECTION	DELTA	BEARING	ELEMENT
PS		8+000.000	5459800.893	495799.565	9.030								N54° 56' 58.79"E	No.9 LH TURNOUT
PITO		8+009.030	5459806.079	495806.957	49.218								N48° 35' 23.79"E	
BC	C16	8+058.247	5459838.633	495843.870	17.593	8+067.046	5459844.453	495850.469	291.196	6°00'00"	N50° 19' 14.56"E	3°27'41.54"		
EC		8+075.840	5459849.864	495857.408	65.571								N52° 03' 05.33"E	
EP		8+141.411	5459890.187	495909.115										

PROPOSED TRACK L29														
POINT	CURVE NUMBER	STATION	NORTHING	EASTING	LENGTH	PI STATION	PI NORTHING	PI EASTING	RADIUS	Dc	CHORD DIRECTION	DELTA	BEARING	ELEMENT
PS		9+090.464	5459977.598	496524.093	30.100									No.9 LH TURNOUT
BC	C12A	9+120.564	5459987.990	496495.844	57.370	9+149.459	5459997.966	496468.725	194.241	9°00'00"	N78° 15' 53.74"W	16°55'20.90"		
PCC		9+177.933	5459999.616	496439.877	104.428	9+230.623	5460002.625	496387.274	317.645	5°30'00"	S83° 51' 20.47"W	18°50'10.70"		
EC	C13	9+282.361	5459988.489	496336.517	63.937								S74° 26' 15.12"W	
EP		9+346.298	5459971.335	496274.924									S74° 26' 15.12"W	

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: 11-09-20	**A.S.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **N/A**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (TCLIENT) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (THATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

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C	03-08-31	ISSUED FOR 90% DESIGN	F.D.
B	31-05-21	REISSUED FOR 30% DESIGN	B.B.
A	11-09-20	ISSUED FOR 30% DESIGN	M.K.G.

CP

ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD RAIL ALIGNMENT DATA CONTROL - SHEET 2

DWG. BY:	CHK BY:	OFFICE FILE:	
MANAGER - DESIGN:		SCALE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		DATE:	
		PLAN No. H362676-RW-100-S0-3002	Rev. C

Aug 03 , 2021 , 5:15pm Login name: mcke92314
Drawing Name: C:\pwworking\ri\mcke92314\d0694048\H362676-RW-100-S0-3001 TO 3003.dwg

PROPOSED K2 TO K10 CROSSOVER														
POINT	CURVE NUMBER	STATION	NORTHING	EASTING	LENGTH	PI STATION	PI NORTHING	PI EASTING	RADIUS	Dc	CHORD DIRECTION	DELTA	BEARING	ELEMENT
BP		10+713.455	5459930.034	496653.406	60.697								N69° 48' 23.92"W	
PS		10+774.152	5459950.985	496596.940	6.375								N63° 26' 38.28"W	No. 9 SP RH TURNOUT
PITO		10+780.528	5459953.186	496590.456	37.388									
PITO		10+817.906	5459969.897	496557.022	6.375									
PS		10+824.281	5459972.747	496551.319	35.622									No. 9 SP LH TURNOUT
PITO		10+859.903	5459988.673	496519.455	6.375								N69° 48' 13.29"W	
EP/PS		10+866.278	5459990.874	496513.472										No. 9 SP RH TURNOUT

PROPOSED TRACK L28														
POINT	CURVE NUMBER	STATION	NORTHING	EASTING	LENGTH	PI STATION	PI NORTHING	PI EASTING	RADIUS	Dc	CHORD DIRECTION	DELTA	BEARING	ELEMENT
PS		11+000.000	5459974.938	496531.326	16.736								N69° 48' 13.29"W	No.9 LH TURNOUT
PITO		11+016.736	5459980.716	496515.619	24.706								N76° 09' 48.29"W	
BC	C12	11+041.442	5459986.624	496491.630	130.757	11+107.911	5460002.520	496427.090	295.293	5°55'00"	N88° 50' 55.83"W	25°22'15.09"		
PCC		11+172.200	5459989.230	496361.964	55.911	11+200.166	5459983.638	496334.562	800.000	2°10'59"	S76° 27' 48.86"W	4°00'15.52"		
EC	C12A	11+228.110	5459976.146	496307.618	46.201								S74° 27' 41.10"W	
EP		11+274.311	5459963.769	496263.106										

PROPOSED TRACK K1 TO K29 CROSSOVER														
POINT	CURVE NUMBER	STATION	NORTHING	EASTING	LENGTH	PI STATION	PI NORTHING	PI EASTING	RADIUS	Dc	CHORD DIRECTION	DELTA	BEARING	ELEMENT
BP		8+977.149	5459934.525	496628.732	46.503								N69° 48' 13.29"W	
PS		9+023.652	5459950.580	496585.088	6.375									No.9 SP RH TURNOUT
PITO		9+030.028	5459952.781	496579.105	38.821								N63° 26' 41.85"W	
PITO		9+068.849	5459970.136	496544.379	6.375								N69° 48' 13.29"W	
PS		9+075.224	5459972.338	496538.396	15.241									No.9 SP RH TURNOUT
EP/PS		9+090.464	5459977.598	496524.093										

PROPOSED TRACK K09 TO K10														
POINT	CURVE NUMBER	STATION	NORTHING	EASTING	LENGTH	PI STATION	PI NORTHING	PI EASTING	RADIUS	Dc	CHORD DIRECTION	DELTA	BEARING	ELEMENT
BP		10+759.848	5459949.853	496611.510	58.058								N69° 48' 13.29"W	
PITO		10+817.906	5459969.897	496557.022	41.997								N63° 26' 38.31"W	
PS		10+824.281	5459972.747	496551.319	35.622									No. 9 SP LH TURNOUT
PITO		10+859.903	5459988.673	496519.455	6.375								N69° 48' 13.29"W	
EP/PS		10+866.278	5459990.874	496513.472										No. 9 SP RH TURNOUT

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES
UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D.	**A.S.**
DATE: 11-09-20	DATE: **11-09-20**
CHECKED BY:	PROJECT MANAGER:
V.C.	**I.M.**
DATE: **11-09-20**	DATE: **11-09-20**
HATCH PROJECT No:	DWG SCALE(FULL SIZE):
H362376	**N/A**

PROFESSIONAL SEALS

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C	03-08-31	ISSUED FOR 90% DESIGN	F.D.
B	31-05-21	REISSUED FOR 30% DESIGN	B.B.
A	11-09-20	ISSUED FOR 30% DESIGN	M.K.G.

CP

ENGINEERING PROJECTS - WEST

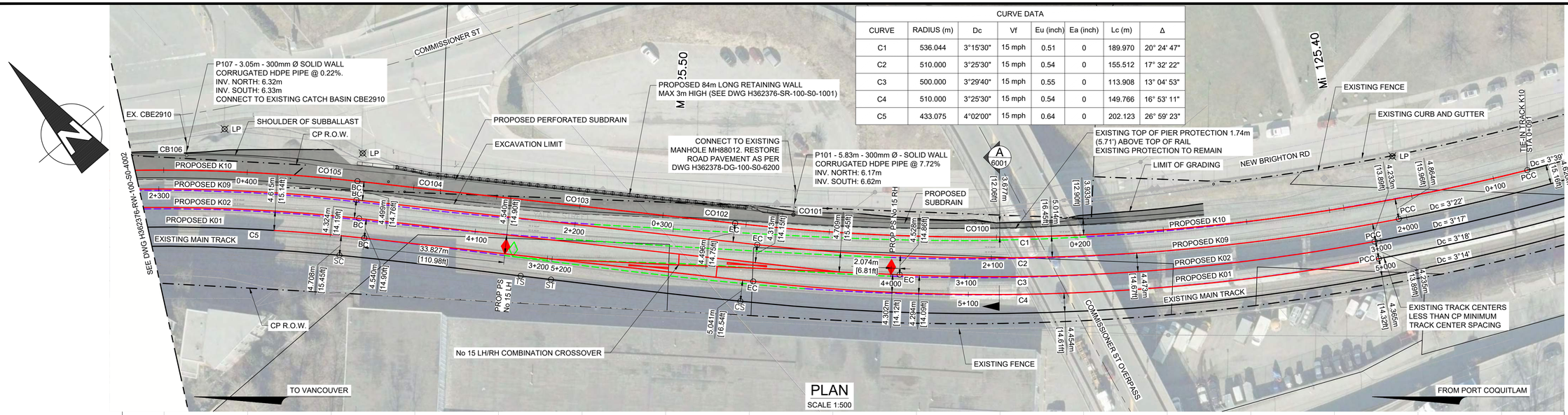
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD
RAIL
ALIGNMENT DATA CONTROL - SHEET 3

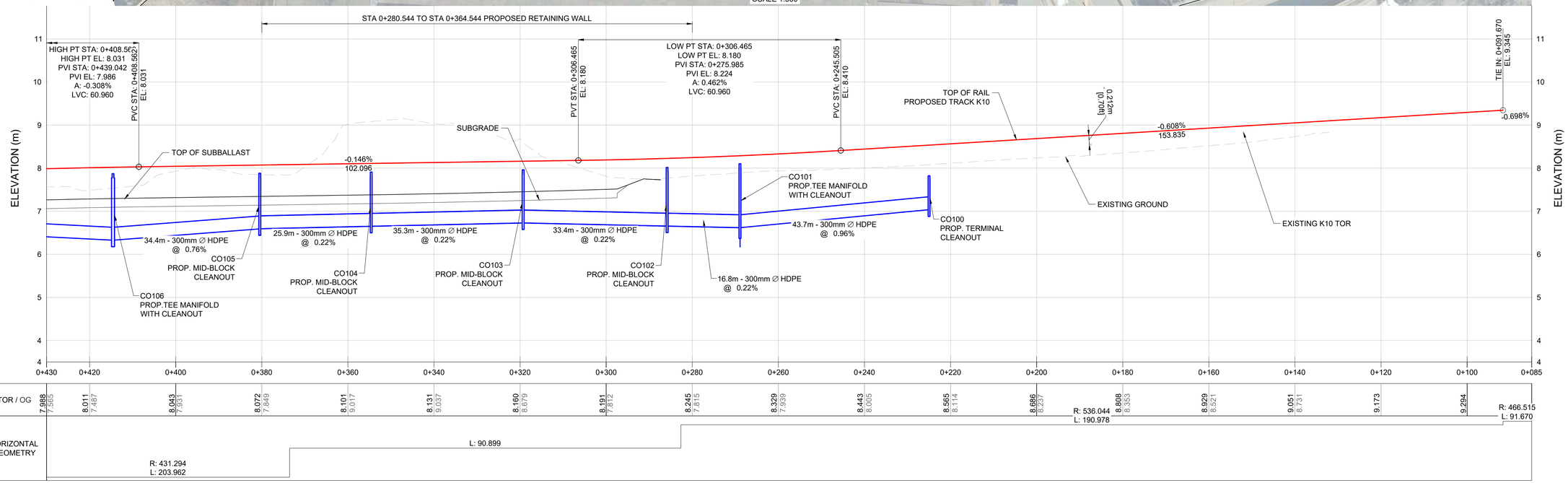
DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362676-RW-100-S0-3003	Rev. C

Aug 03 , 2021 , 5:15pm Login name: mcke92314
Drawing Name: C:\pwworking\ri\mcke92314\d0694048\H362676-RW-100-S0-3001 TO 3003.dwg

CURVE DATA							
CURVE	RADIUS (m)	Dc	Vf	Eu (inch)	Ea (inch)	Lc (m)	Δ
C1	536.044	3°15'30"	15 mph	0.51	0	189.970	20° 24' 47"
C2	510.000	3°25'30"	15 mph	0.54	0	155.512	17° 32' 22"
C3	500.000	3°29'40"	15 mph	0.55	0	113.908	13° 04' 53"
C4	510.000	3°25'30"	15 mph	0.54	0	149.766	16° 53' 11"
C5	433.075	4°02'00"	15 mph	0.64	0	202.123	26° 59' 23"



PLAN
SCALE 1:500



PROFILE
SCALE H 1:500
V 1:50

5 m 0 H: 1:500 25 m
0.5 m 0 V: 1:50 2.5 m

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: 11-09-20	DRAWN BY: **A.S.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
C	03-08-21	ISSUED FOR 90% DESIGN	F.D.
B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

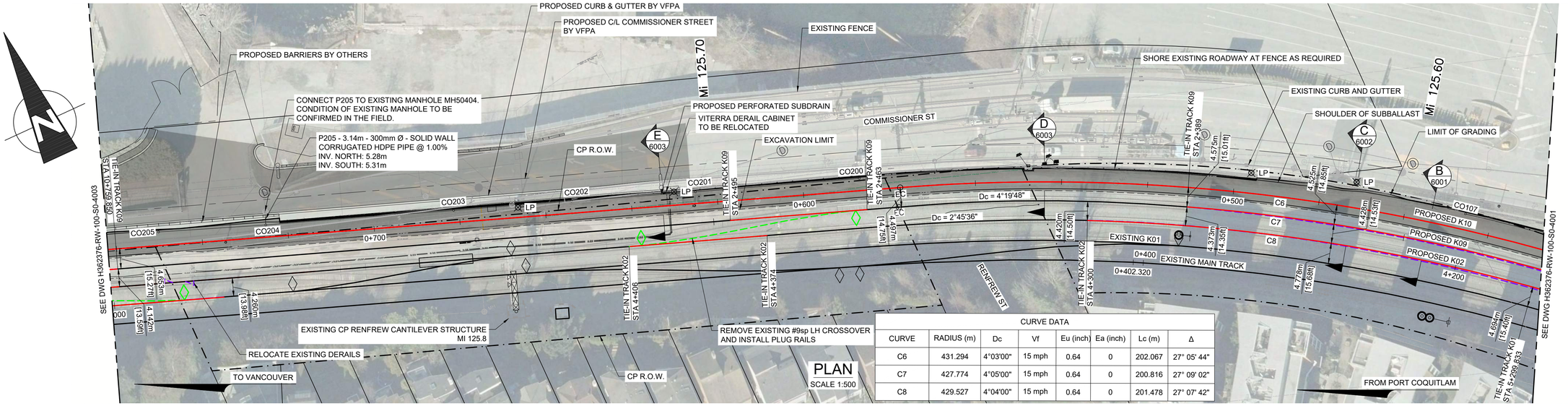
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - PLAN & PROFILE
TRACK K10 - STA 0+085 TO 0+430

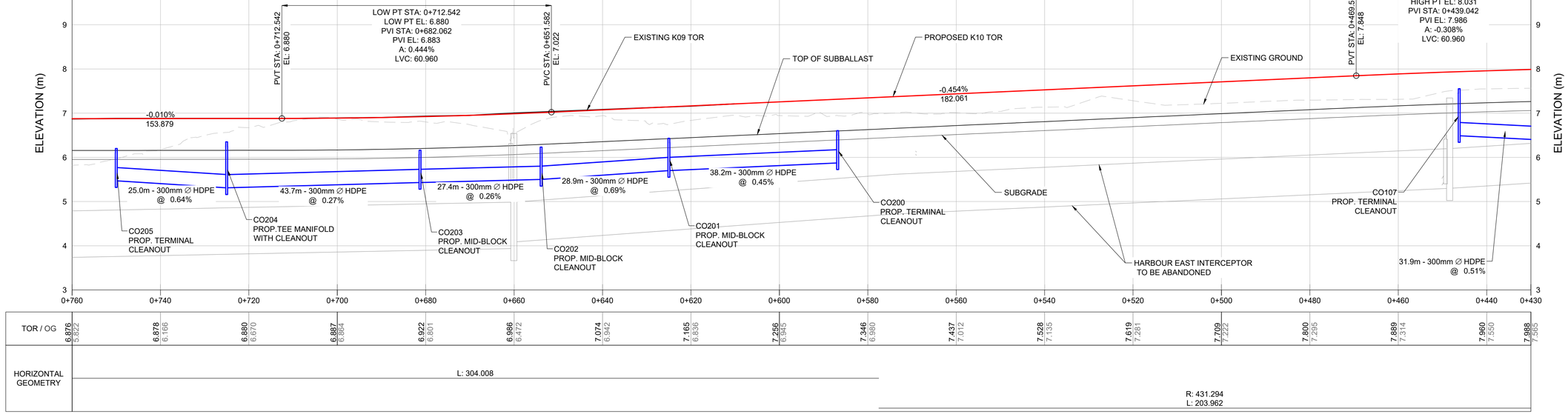
DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-4001 Rev. C

Aug 03 , 2021 , 4:59pm Login name: shobi11128
Drawing Name: C:\pwworking\hi\yashna.shobini@hatch.com\d0694048\H362376-RW-100-S0-4001 to 4008.dwg



PLAN
SCALE 1:500

CURVE DATA							
CURVE	RADIUS (m)	Dc	Vf	Eu (inch)	Ea (inch)	Lc (m)	Δ
C6	431.294	4°03'00"	15 mph	0.64	0	202.067	27° 05' 44"
C7	427.774	4°05'00"	15 mph	0.64	0	200.816	27° 09' 02"
C8	429.527	4°04'00"	15 mph	0.64	0	201.478	27° 07' 42"



PROFILE
SCALE H 1:500
V 1:50

5 m 0 H: 1:500 25 m
0.5 m 0 V: 1:50 2.5 m

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **11-09-20**	DRAWN BY: **A.S.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

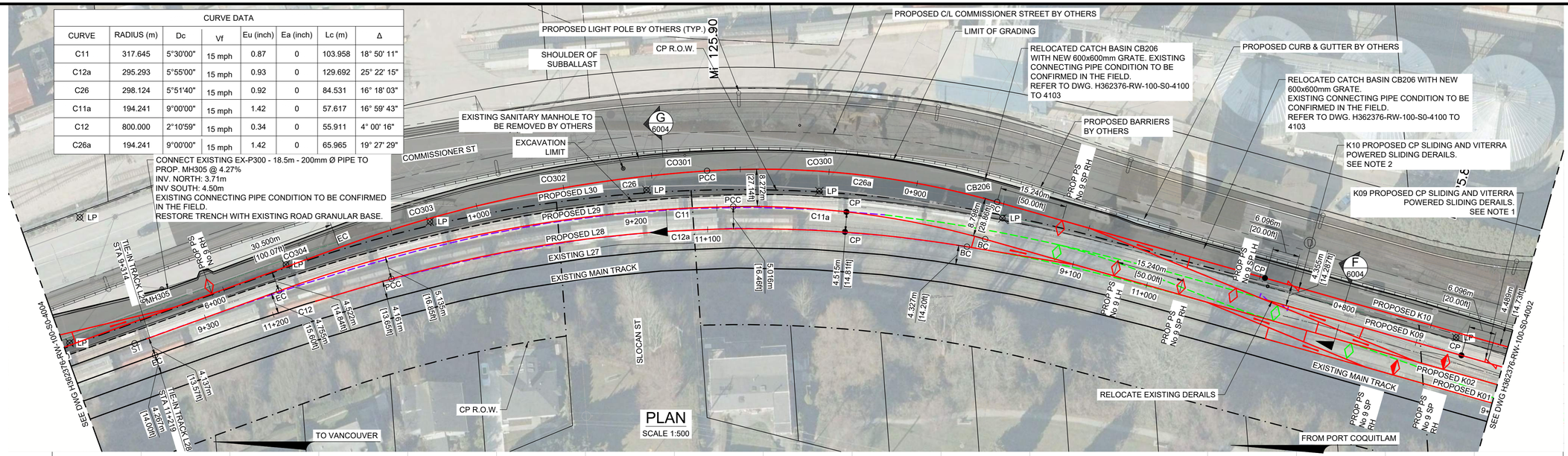
EAST L YARD EXPANSION
RAIL - PLAN & PROFILE
TRACK K10 - STA 0+430 TO 0+760

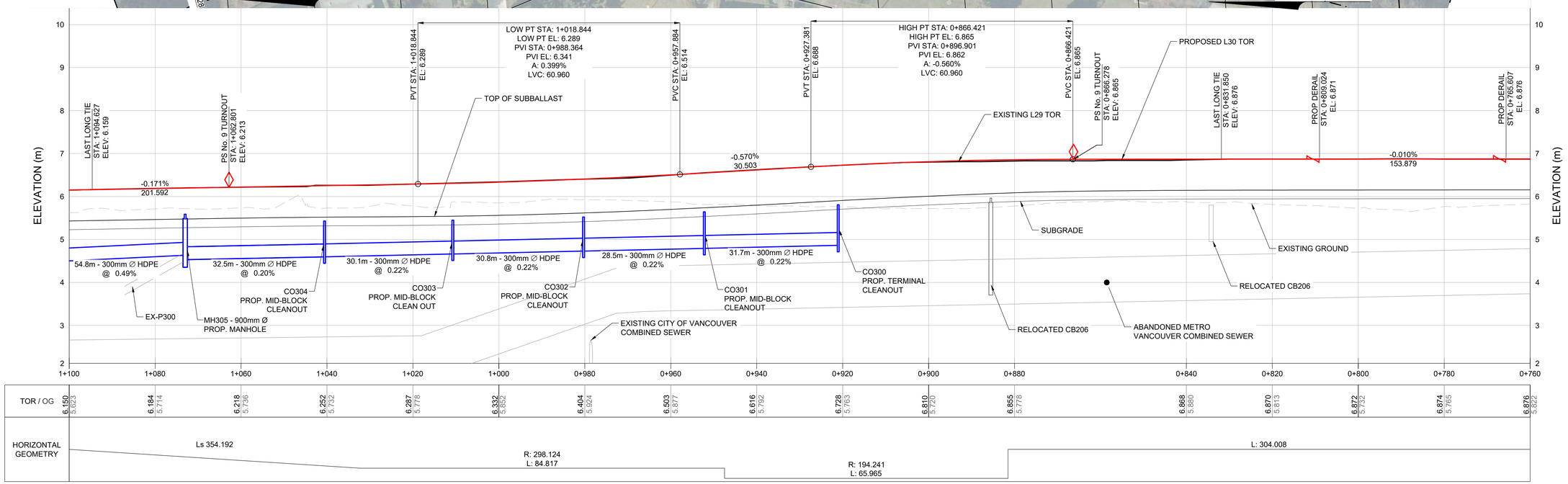
DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE:
M.FAVREAU DIR. PROJECT SERVICES WEST	DATE:
	PLAN No. H362376-RW-100-S0-4002
	Rev. C

Aug 03 , 2021 - 6:54pm Login name: mcke92314
Drawing Name: C:\pwworking\hl\mcke92314\d0694048\H362376-RW-100-S0-4001 to 4008.dwg

CURVE DATA							
CURVE	RADIUS (m)	Dc	Vf	Eu (inch)	Ea (inch)	Lc (m)	Δ
C11	317.645	5°30'00"	15 mph	0.87	0	103.958	18° 50' 11"
C12a	295.293	5°55'00"	15 mph	0.93	0	129.692	25° 22' 15"
C26	298.124	5°51'40"	15 mph	0.92	0	84.531	16° 18' 03"
C11a	194.241	9°00'00"	15 mph	1.42	0	57.617	16° 59' 43"
C12	800.000	2°10'59"	15 mph	0.34	0	55.911	4° 00' 16"
C26a	194.241	9°00'00"	15 mph	1.42	0	65.965	19° 27' 29"

CONNECT EXISTING EX-P300 - 18.5m - 200mm Ø PIPE TO PROP. MH305 @ 4.27%
INV. NORTH: 3.71m
INV SOUTH: 4.50m
EXISTING CONNECTING PIPE CONDITION TO BE CONFIRMED IN THE FIELD.
RESTORE TRENCH WITH EXISTING ROAD GRANULAR BASE.





PROFILE
SCALE H 1:500
V 1:50

5 m 0 H: 1:500 25 m
0.5 m 0 V: 1:50 2.5 m

NOTES:
1. K09 - CP SLIDING DERAIL LOCATED AT STA 10+765.237, 20' EAST OF CLEARANCE POINT VITERRA POWERED SLIDING DERAIL LOCATED AT STA 10+763.713, 25' EAST OF CLEARANCE POINT
2. K10 - CP SLIDING DERAIL LOCATED AT STA 0+812.610, 20' EAST OF CLEARANCE POINT VITERRA POWERED SLIDING DERAIL LOCATED AT STA 0+811.500, 25' EAST OF CLEARANCE POINT

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: 11-09-20	**A.S.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
C	03-08-21	ISSUED FOR 90% DESIGN	F.D.
B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP
ENGINEERING PROJECTS - WEST

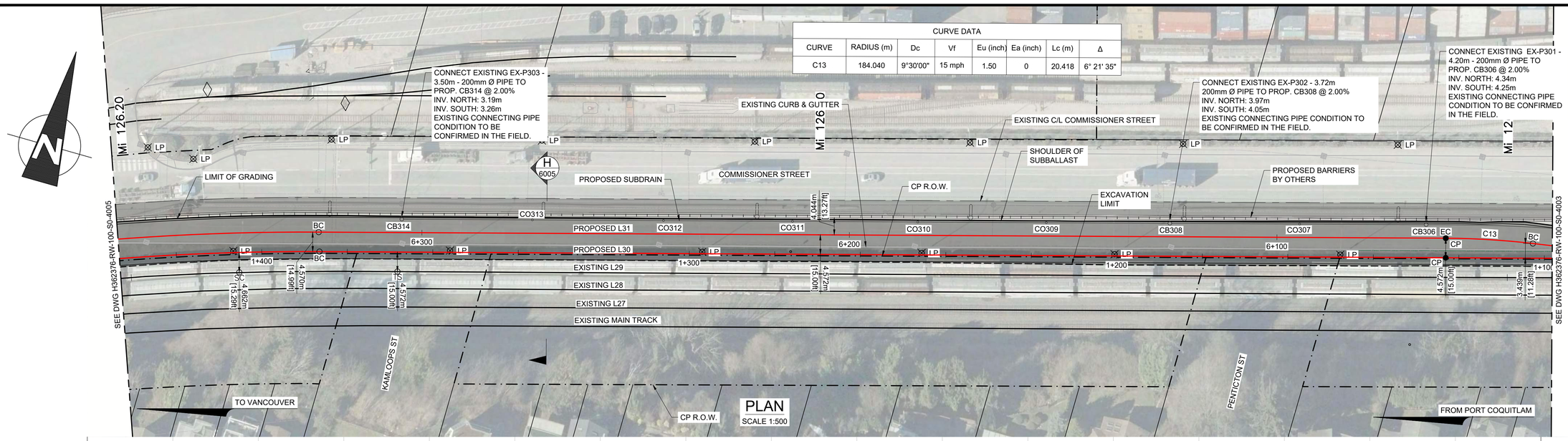
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - PLAN & PROFILE
TRACK L30 - STA 0+760 TO 1+100

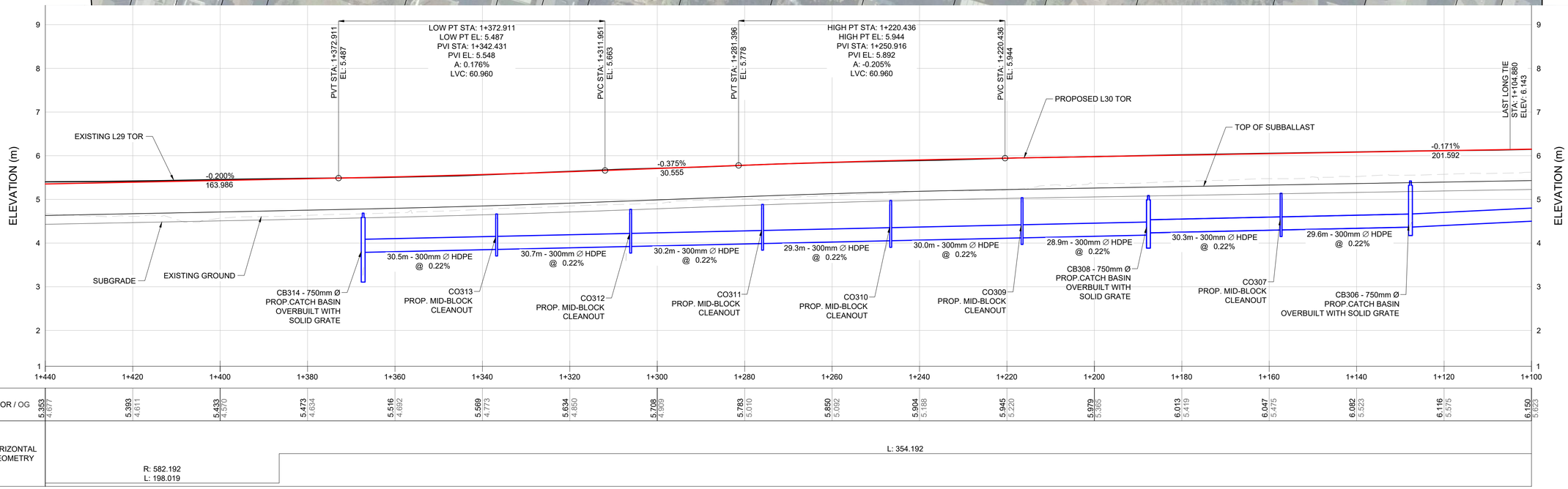
DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-4003	Rev. C

Aug 03 , 2021 - 6:51pm Login name: mcke92314
Drawing Name: C:\pwworking\hi\mcke92314\d0694048\H362376-RW-100-S0-4001 to 4008.dwg

CURVE DATA							
CURVE	RADIUS (m)	Dc	Vf	Eu (inch)	Ea (inch)	Lc (m)	Δ
C13	184.040	9°30'00"	15 mph	1.50	0	20.418	6° 21' 35"



PLAN
SCALE 1:500



PROFILE
SCALE H 1:500
V 1:50

5 m 0 H: 1:500 25 m
0.5 m 0 V: 1:50 2.5 m

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **11-09-20**	DRAWN BY: **A.S.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
C	03-08-21	ISSUED FOR 90% DESIGN	F.D.
B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

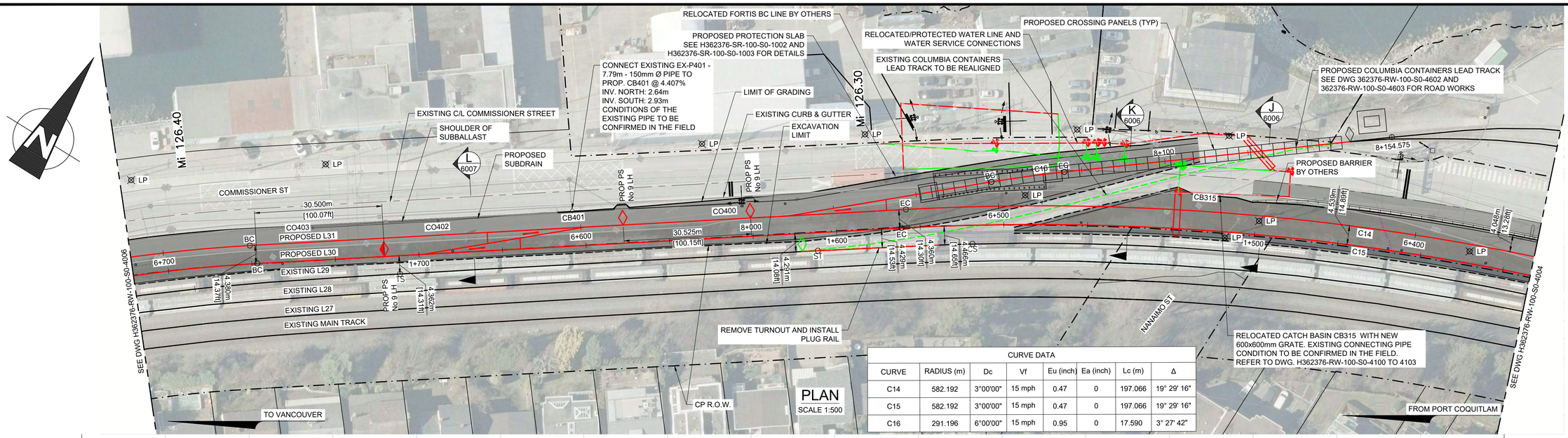
CP
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - PLAN & PROFILE
TRACK L30 - STA 1+100 TO 1+440

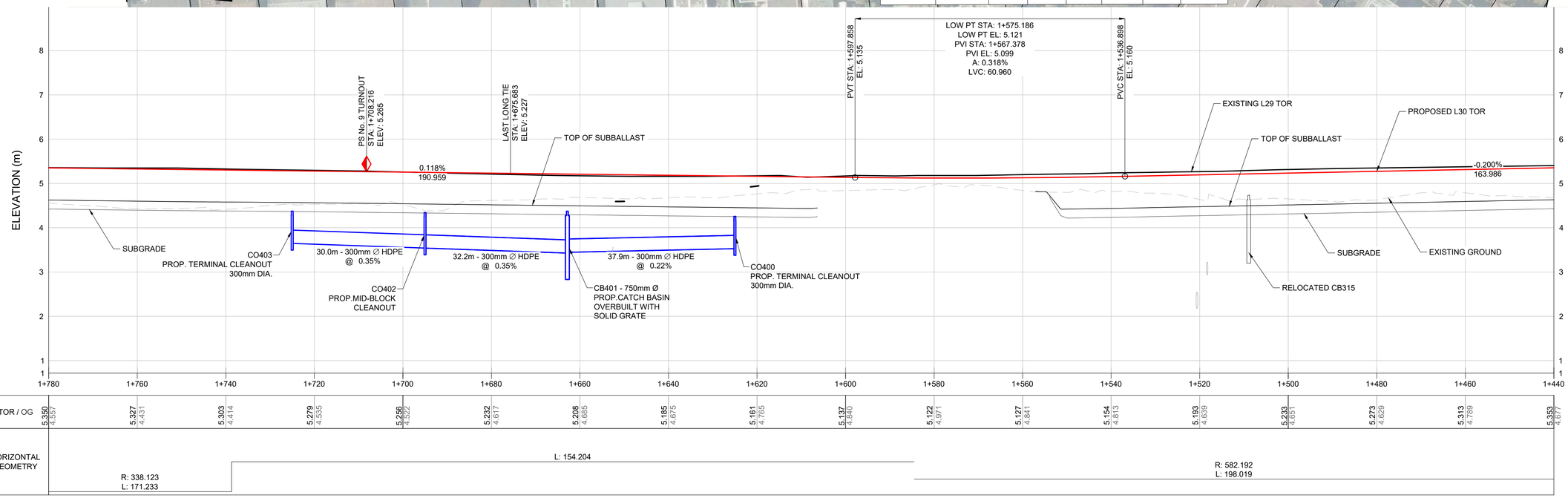
DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-4004 Rev. C

Aug 03 , 2021 , 5:01pm Login name: shobi11128
Drawing Name: C:\pwworking\h\\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-4001 to 4008.dwg



PLAN
SCALE 1:500

CURVE DATA							
CURVE	RADIUS (m)	Dc	Vf	Eu (inch)	Ea (inch)	Lc (m)	Δ
C14	582.192	3°00'00"	15 mph	0.47	0	197.066	19° 29' 16"
C15	582.192	3°00'00"	15 mph	0.47	0	197.066	19° 29' 16"
C16	291.196	6°00'00"	15 mph	0.95	0	17.590	3° 27' 42"



NOT FOR CONSTRUCTION

PROFILE
SCALE H 1:500
V 1:50

5 m 0 H: 1:500 25 m
0.5 m 0 V: 1:50 2.5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: 11-09-20	DRAWN BY: **A.S.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

ENGINEERING PROJECTS - WEST

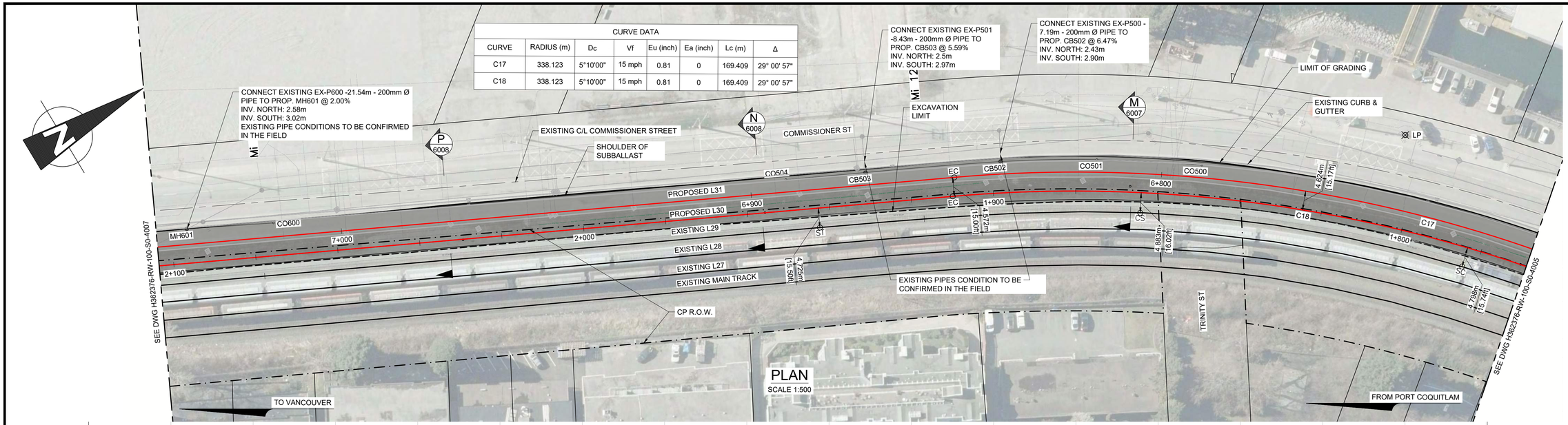
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - PLAN & PROFILE
TRACK L30 - STA 1+440 TO 1+780

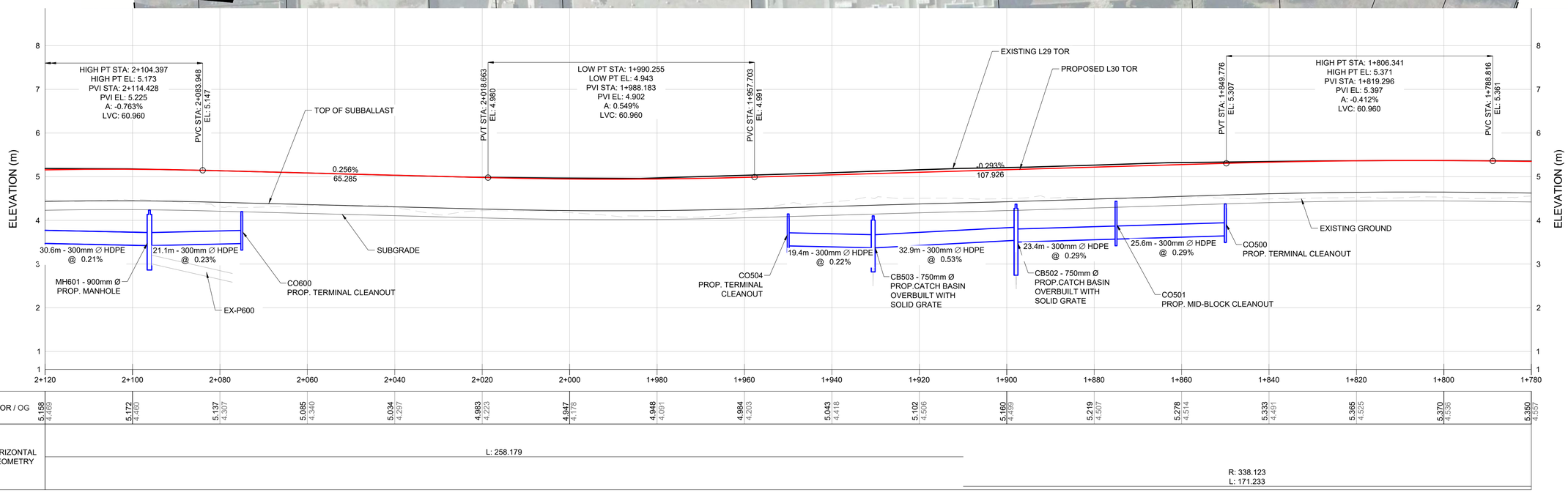
DWG. BY:	CHK BY:	OFFICE FILE:	
MANAGER - DESIGN:		SCALE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		DATE:	
		PLAN No. H362376-RW-100-S0-4005	Rev. C

Aug 03 , 2021 - 6:56pm Login name: mcke92314
Drawing Name: C:\pwworking\hl\mcke92314\d0694048\H362376-RW-100-S0-4001 to 4008.dwg

CURVE DATA							
CURVE	RADIUS (m)	Dc	Vf	Eu (inch)	Ea (inch)	Lc (m)	Δ
C17	338.123	5°10'00"	15 mph	0.81	0	169.409	29° 00' 57"
C18	338.123	5°10'00"	15 mph	0.81	0	169.409	29° 00' 57"



PLAN
SCALE 1:500



NOT FOR CONSTRUCTION

PROFILE
SCALE H 1:500
V 1:50

5 m 0 H: 1:500 25 m
0.5 m 0 V: 1:50 2.5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: 11-09-20	**A.S.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

ENGINEERING PROJECTS - WEST

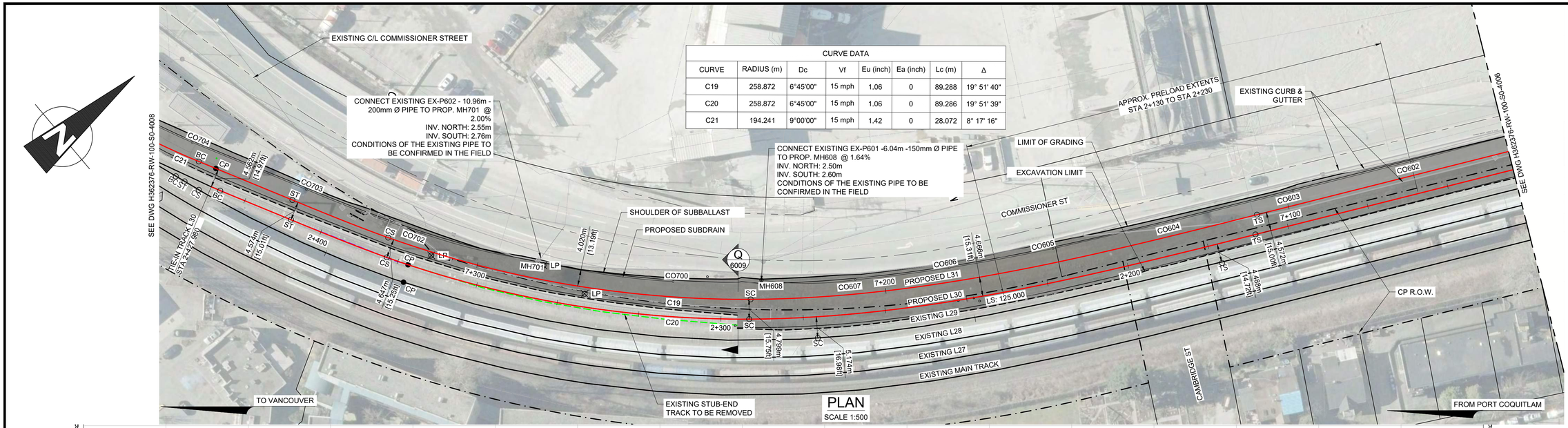
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - PLAN & PROFILE
TRACK L30 - STA 1+780 TO 2+120

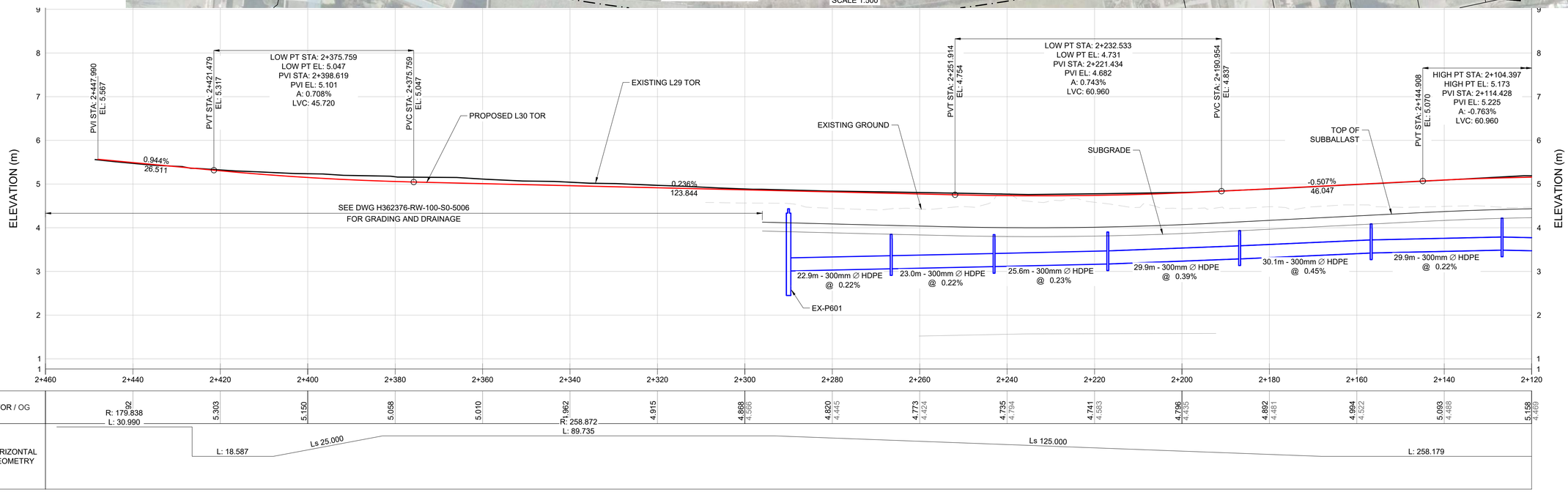
DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-4006	Rev. C

Aug 03 , 2021 , 5:02pm Login name: shob11128
Drawing Name: C:\pwworking\h\\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-4001 to 4008.dwg

CURVE DATA							
CURVE	RADIUS (m)	Dc	Vf	Eu (inch)	Ea (inch)	Lc (m)	Δ
C19	258.872	6°45'00"	15 mph	1.06	0	89.288	19° 51' 40"
C20	258.872	6°45'00"	15 mph	1.06	0	89.286	19° 51' 39"
C21	194.241	9°00'00"	15 mph	1.42	0	28.072	8° 17' 16"



PLAN
SCALE 1:500



PROFILE
SCALE H 1:500
V 1:50

5 m 0 H: 1:500 25 m
0.5 m 0 V: 1:50 2.5 m

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: 11-09-20	DRAWN BY: **A.S.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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C	03-08-21	ISSUED FOR 90% DESIGN	F.D.
B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

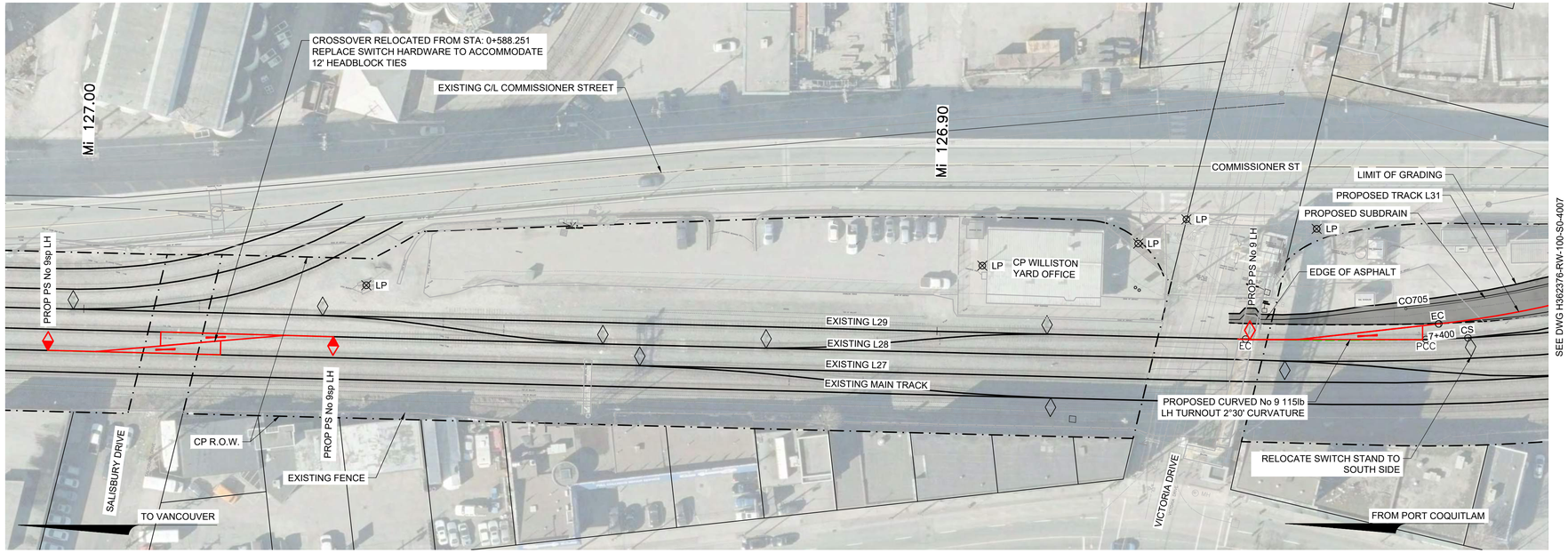
CP
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - PLAN & PROFILE
TRACK L30 - STA 2+120 TO 2+460

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-4007 Rev. C

Aug 03 , 2021 - 5:03pm Login name: shob11128
Drawing Name: C:\pwworking\rh\posha.shober@hatch.com\d0694048\H362376-RW-100-S0-4001 to 4008.dwg



SEE DWG H362376-RW-100-S0-4007

SEE DWG H362376-RW-100-S0-5006 FOR L31 PROFILE AND DRAINAGE

PLAN

SCALE 1:500

5 m 0 1:500 25 m

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES
UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: 11-09-20	DRAWN BY: **A.S.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:500**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
C	03-08-21	ISSUED FOR 90% DESIGN	F.D.
B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP

ENGINEERING PROJECTS - WEST

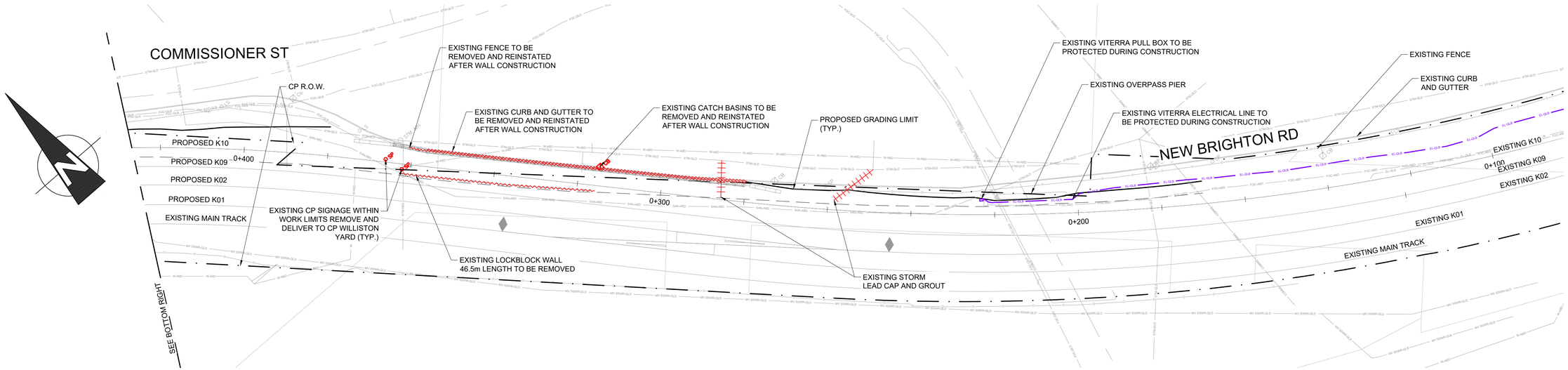
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - PLAN & PROFILE
L31 CONNECTION AND SALISBURY DRIVE CROSSOVER

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE: DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-4008 Rev. C

Aug 03 , 2021 , 5:03pm Login name: shob11128
Drawing Name: C:\pwworking\ir\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-4001 to 4008.dwg

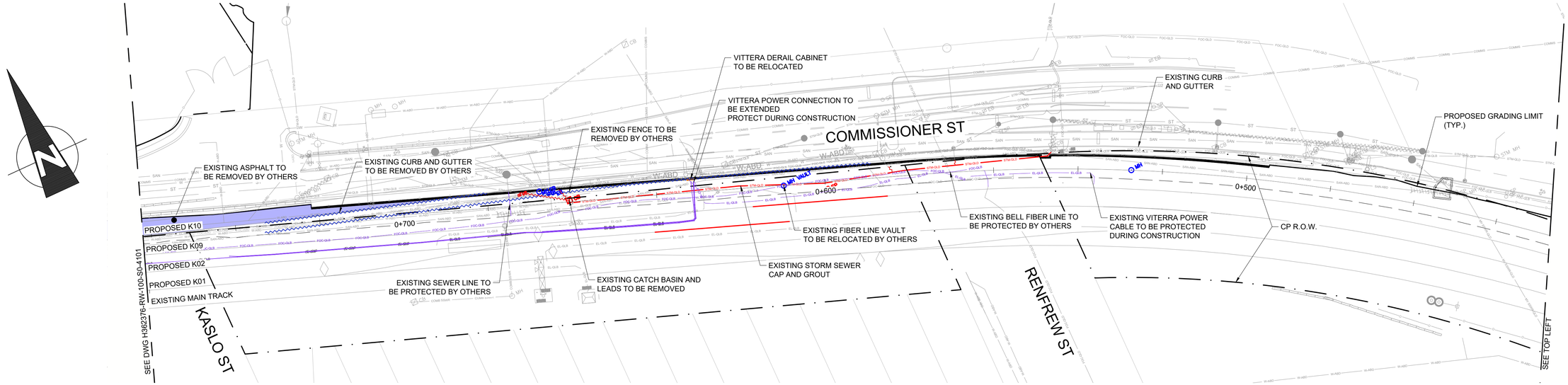
NOT FOR CONSTRUCTION



PLAN

SCALE 1:500

5 m 0 1:500 25 m



REMOVAL LEGEND:

EXISTING LINEAR FEATURES TO BE REMOVED
EXISTING AREA FEATURES TO BE REMOVED
EXISTING LINEAR FEATURES TO BE ABANDONED
EXISTING FEATURES TO BE REMOVED
EXISTING FEATURES TO BE RELOCATED

EXISTING LINEAR FEATURES TO BE REMOVED BY OTHERS
EXISTING AREA FEATURES TO BE REMOVED BY OTHERS
EXISTING FEATURES TO BE ABANDONED BY OTHERS
EXISTING FEATURES TO BE REMOVED BY OTHERS
EXISTING FEATURES TO BE PROTECTED

NOTES:

1. CONTRACTOR TO VERIFY PRESENCE AND LOCATION OF ALL UTILITIES BEFORE REMOVAL.
2. VARIOUS ITEMS NOTED FOR REMOVAL MAY BE REMOVED PRIOR TO CONSTRUCTION BY CSRR ROADWAY CONTRACTOR

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
P.S.	P.S.
DATE: 03-08-21	DATE: 03-08-21
CHECKED BY:	PROJECT MANAGER:
V.C.	I.M.
DATE: 03-08-21	DATE: 03-08-21
HATCH PROJECT No:	DWG SCALE(FULL SIZE):
H362376	1:500

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	P.S.

ENGINEERING PROJECTS - WEST

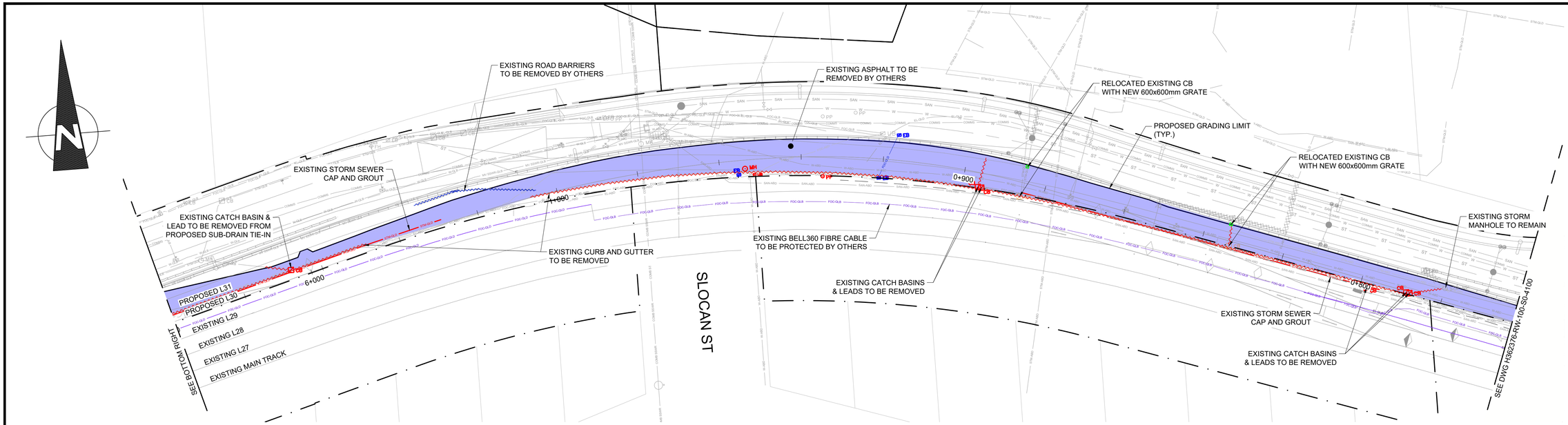
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - REMOVAL PLAN
SHEET 1 OF 4

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-4100	Rev. A

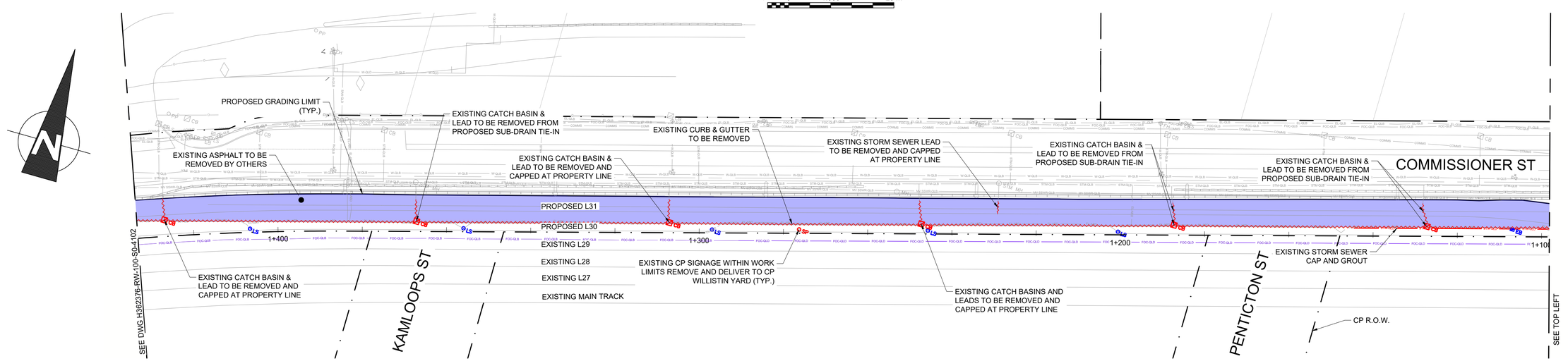
Aug 03 , 2021 , 9:04am Login name: shobi11128
Drawing Name: C:\pwworking\h\\posha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-4100 to 4103.dwg

NOT FOR CONSTRUCTION



PLAN
SCALE 1:500

5 m 0 1:500 25 m



REMOVAL LEGEND:

EXISTING LINEAR FEATURES TO BE REMOVED
EXISTING AREA FEATURES TO BE REMOVED
EXISTING LINEAR FEATURES TO BE ABANDONED
EXISTING FEATURES TO BE REMOVED
EXISTING FEATURES TO BE RELOCATED

EXISTING LINEAR FEATURES TO BE REMOVED BY OTHERS
EXISTING AREA FEATURES TO BE REMOVED BY OTHERS
EXISTING FEATURES TO BE ABANDONED BY OTHERS
EXISTING FEATURES TO BE REMOVED BY OTHERS
EXISTING FEATURES TO BE PROTECTED

NOTES:

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2. VARIOUS ITEMS NOTED FOR REMOVAL MAY BE REMOVED PRIOR TO CONSTRUCTION BY CSRR ROADWAY CONTRACTOR

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **P.S.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:500**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	P.S.

CP

ENGINEERING PROJECTS - WEST

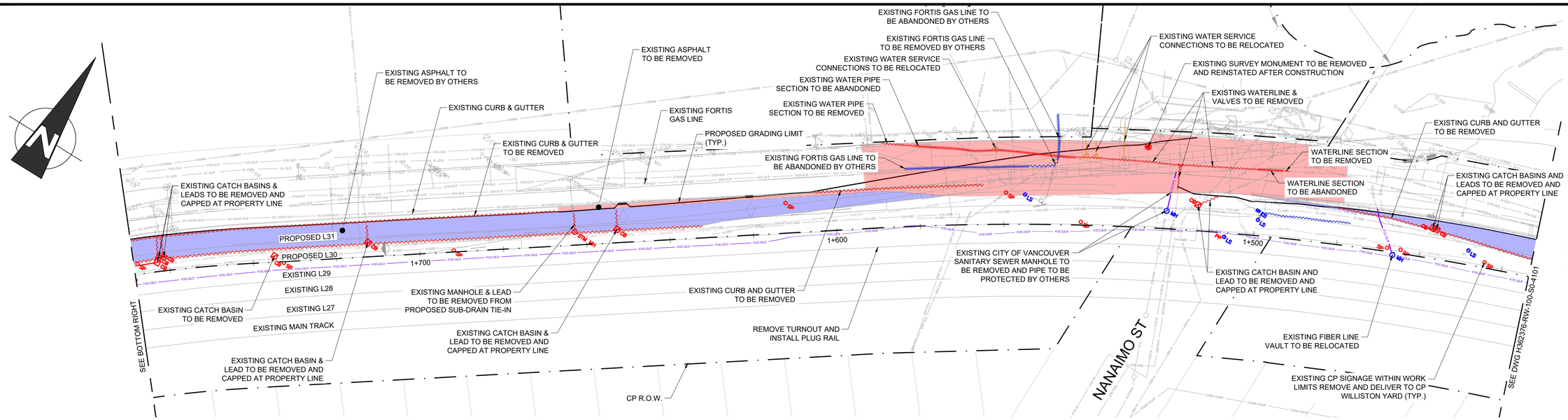
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION RAIL - REMOVAL PLAN SHEET 2 OF 4

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-4101	Rev. A

Aug 03 , 2021 , 9:04am Login name: shobl1128
Drawing Name: C:\pwworking\hi\posha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-4100 to 4103.dwg

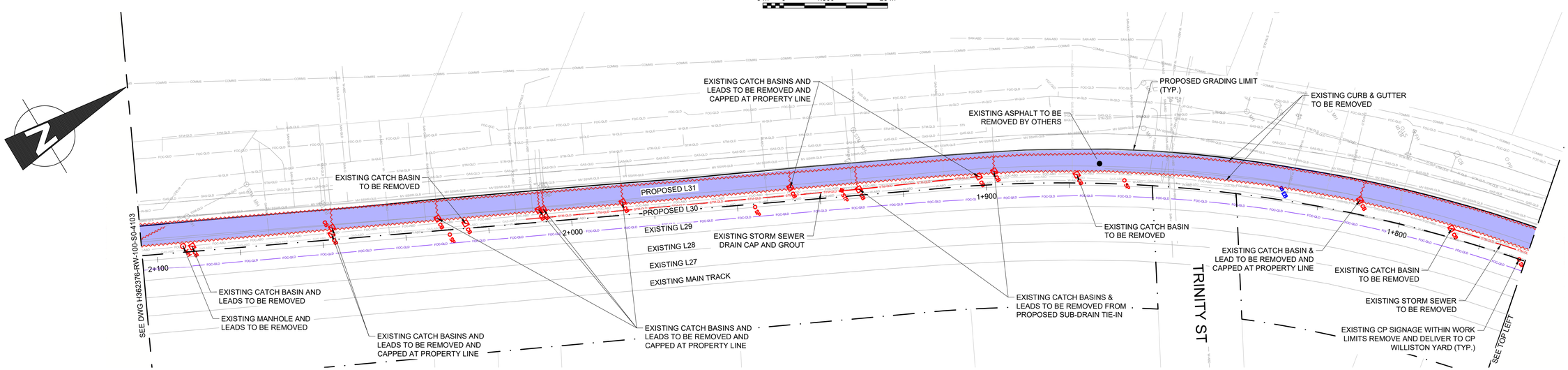
NOT FOR CONSTRUCTION



PLAN

SCALE 1:500

5 m 0 1:500 25 m



REMOVAL LEGEND:

EXISTING LINEAR FEATURES TO BE REMOVED
EXISTING AREA FEATURES TO BE REMOVED
EXISTING LINEAR FEATURES TO BE ABANDONED
EXISTING FEATURES TO BE REMOVED
EXISTING FEATURES TO BE RELOCATED

EXISTING LINEAR FEATURES TO BE REMOVED BY OTHERS
EXISTING AREA FEATURES TO BE REMOVED BY OTHERS
EXISTING FEATURES TO BE ABANDONED BY OTHERS
EXISTING FEATURES TO BE REMOVED BY OTHERS
EXISTING FEATURES TO BE PROTECTED

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HATCH

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DESIGNED BY: P.S. DATE: 03-08-21	DRAWN BY: P.S. DATE: 03-08-21
CHECKED BY: V.C. DATE: 03-08-21	PROJECT MANAGER: I.M. DATE: 03-08-21
HATCH PROJECT No: H362376	DWG SCALE(FULL SIZE): 1:500

PROFESSIONAL SEALS

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A	03-08-21	ISSUED FOR 90% DESIGN	P.S.

ENGINEERING PROJECTS - WEST

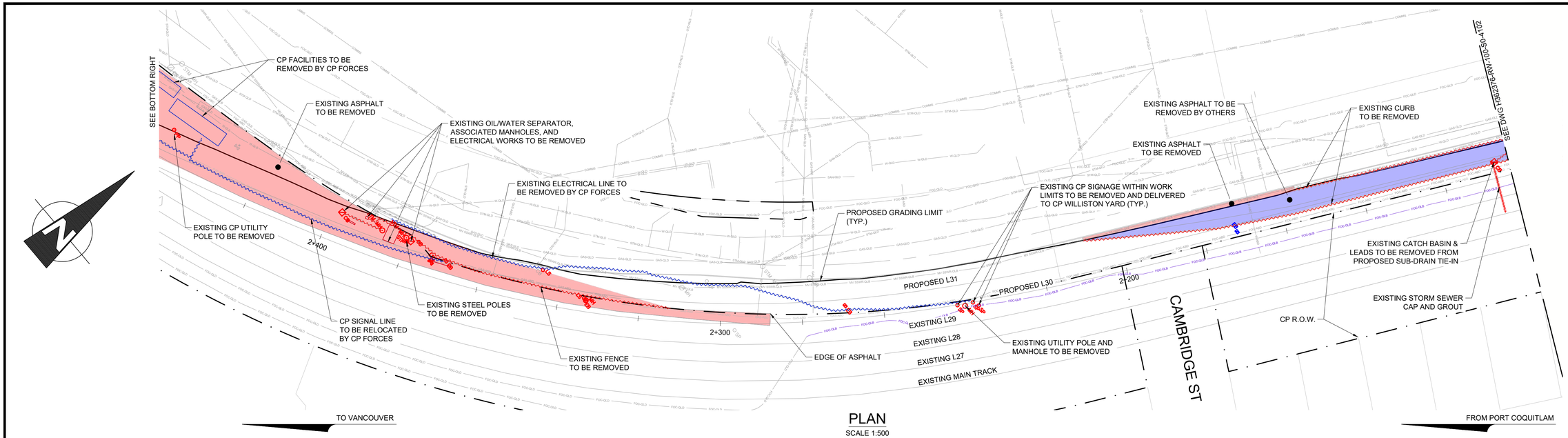
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION RAIL - REMOVAL PLAN SHEET 3 OF 4

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-4102 Rev. A

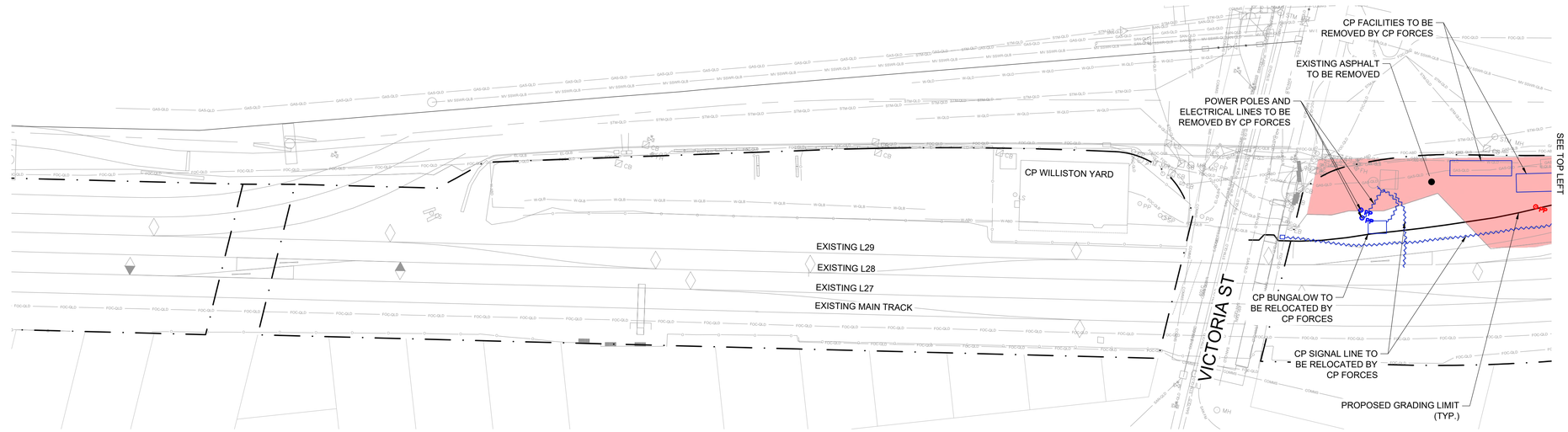
Aug 03 , 2021 , 9:05am Login name: shobi11128
Drawing Name: C:\pwworking\hi\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-4100 to 4103.dwg

NOT FOR CONSTRUCTION



PLAN
SCALE 1:500

5 m 0 1:500 25 m



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EXISTING AREA FEATURES TO BE REMOVED
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EXISTING FEATURES TO BE REMOVED BY OTHERS
EXISTING FEATURES TO BE PROTECTED

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HATCH

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DESIGNED BY: **P.S.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:500**

PROFESSIONAL SEALS

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A	03-08-21	ISSUED FOR 90% DESIGN	P.S.

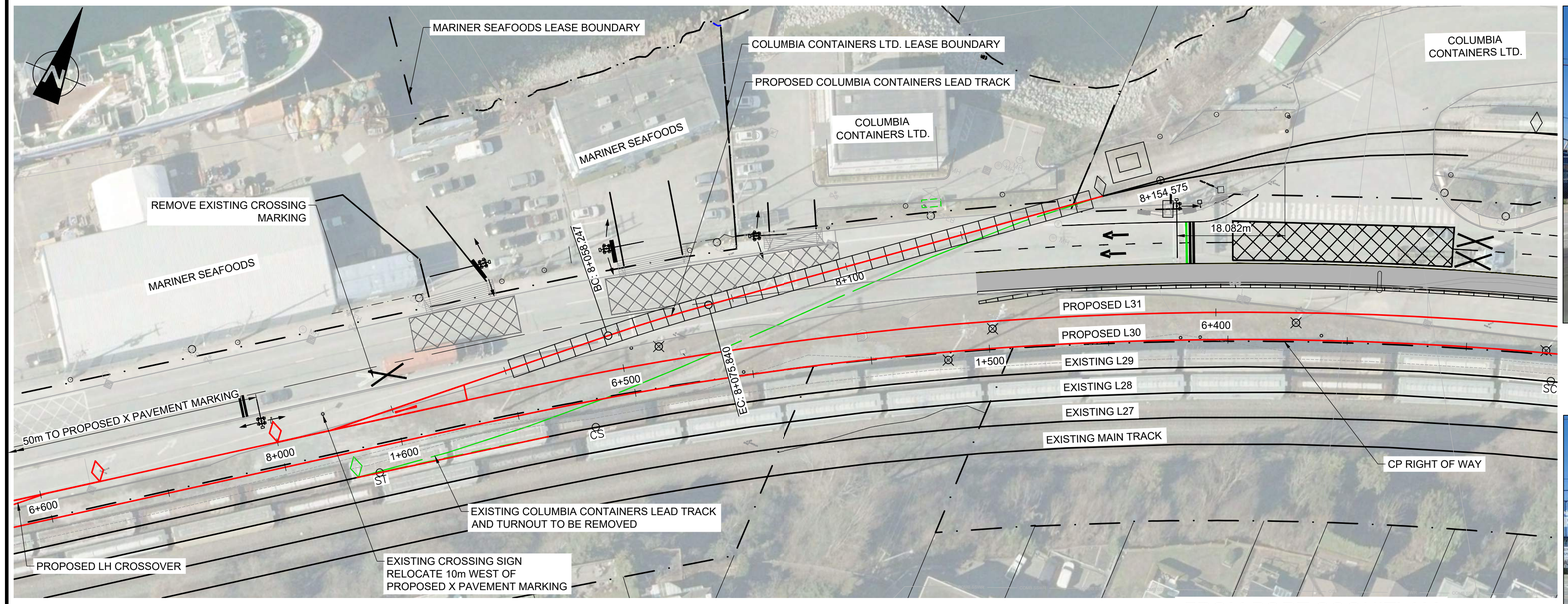
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - REMOVAL PLAN
SHEET 4 OF 4

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN: **M.FAVREAU** DIR. PROJECT SERVICES WEST	SCALE: DATE: PLAN No. H362376-RW-100-S0-4103 Rev. A

Aug 03 , 2021 , 9:05am Login name: shobi11128
Drawing Name: C:\pwworking\hi\posha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-4100 to 4103.dwg

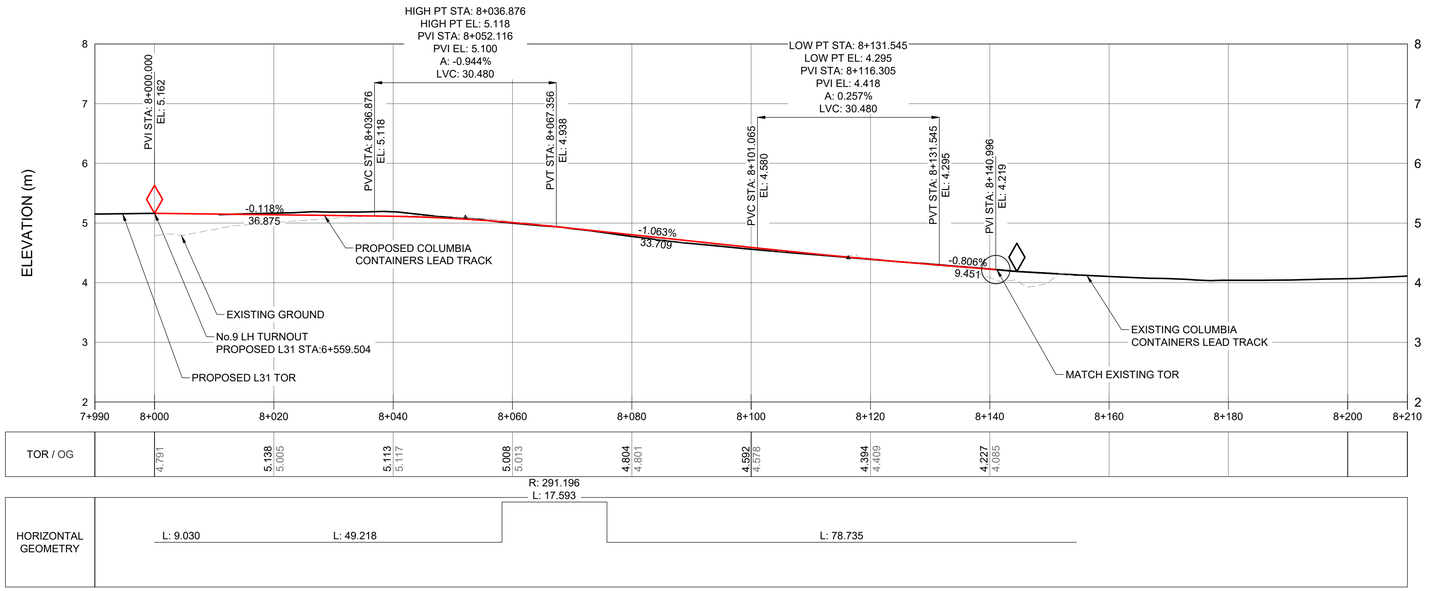


TO VANCOUVER

FROM PORT COQUITLAM

5 m 0 1:500 25 m

SITE PLAN
SCALE 1:500



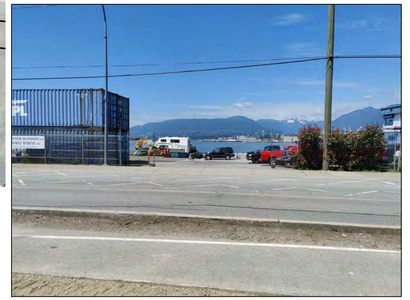
NOT FOR CONSTRUCTION

COLUMBIA CONTAINERS LEAD TRACK PROFILE
SCALE H:1:500 V:1:50

H:1:500
V:1:50
5 m 0 25 m

MARINER SEAFOODS OFFICE ACCESS
LOOKING NORTH

COLUMBIA CONTAINERS OFFICE ACCESS
LOOKING NORTH



MARINER SEAFOODS WAREHOUSE ACCESS
LOOKING NORTH

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE
2. PROJECT COORDINATES UTM NAD 83 (CSRS), ZONE 10N
   ELEVATIONS ARE IN METRES, TO GEODETIC DATUM
3. CONSTRUCTION TO BE IN ACCORDANCE WITH TRANSPORT CANADA GRADE CROSSING STANDARDS 2019
4. ALL UNDERGROUND UTILITIES TO BE PROTECTED AS PER TC-E10 STANDARDS RESPECTING PIPELINE CROSSINGS UNDER RAILWAYS (2000) AND OVERHEAD UTILITIES AS PER G.O. E-11 WIRE CROSSINGS AND PROXIMITIES REGULATIONS
5. PROPERTY LINES TO BE CONFIRMED BY LEGAL SURVEY
6. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL BURIED UTILITIES

RAILWAY DESIGN INFO:

A1. AVERAGE No. OF TRAINS PER DAY:	3
A2. FREIGHT TRAIN DESIGN SPEED:	15 MPH
A3. PASSENGER TRAIN DESIGN SPEED:	15 MPH
A4. EXISTING CROSSING PROTECTION:	FLB
A5. NUMBER OF TRACKS AT EXISTING CROSSING:	1
A6. NUMBER OF TRACKS AT PROPOSED CROSSING:	1

ROADWAY DESIGN INFO:

B1. No OF LANES:	2
B2. ROAD CLASSIFICATION:	INDUSTRIAL (PRIVATE)
B3. AADT:	6500*
B4. ROADWAY SPEED:	50 km/h
B5. DESIGN VEHICLE:	WB-20 (COMMISSIONER ST) HEAVY SINGLE UNIT (TENANT ACCESSES)
B6. PEDESTRIAN COUNT:	NO AVAILABLE DATA

CROSSING DESIGN INFO:

C1. EXISTING ROAD SURFACE:	ASPHALT
C2. PROPOSED ROAD SURFACE:	ASPHALT
C3. EXISTING CROSSING SURFACE:	ASPHALT
C4. PROPOSED CROSSING SURFACE:	CONCRETE PANELS
C5. CROSSING DIMENSIONS:	
EXISTING ROAD WIDTH :	6.8m WEST 3.6m EAST
PROPOSED ROAD WIDTH :	7.0m WEST 3.2m EAST
EXISTING ROAD CROSSING WIDTH:	11.4m
PROPOSED ROAD CROSSING WIDTH:	11.2m
C6. PROPOSED CROSSING PROTECTION:	FLBG
C7. PRE-EMPTION REQUIRED:	NO
C8: ADVANCED WARNING SYSTEM REQUIRED:	NO

*VALUES FROM TRANSPORT CANADA CROSSING INVENTORY RECORDS

HATCH

METRIC
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DESIGNED BY: **A.S.** DATE: **06-29-21**	DRAWN BY: **A.S.** DATE: **06-29-21**
CHECKED BY: **P.B.** DATE: **08-03-21**	PROJECT MANAGER: **I.M.** DATE: **08-03-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	A.S.

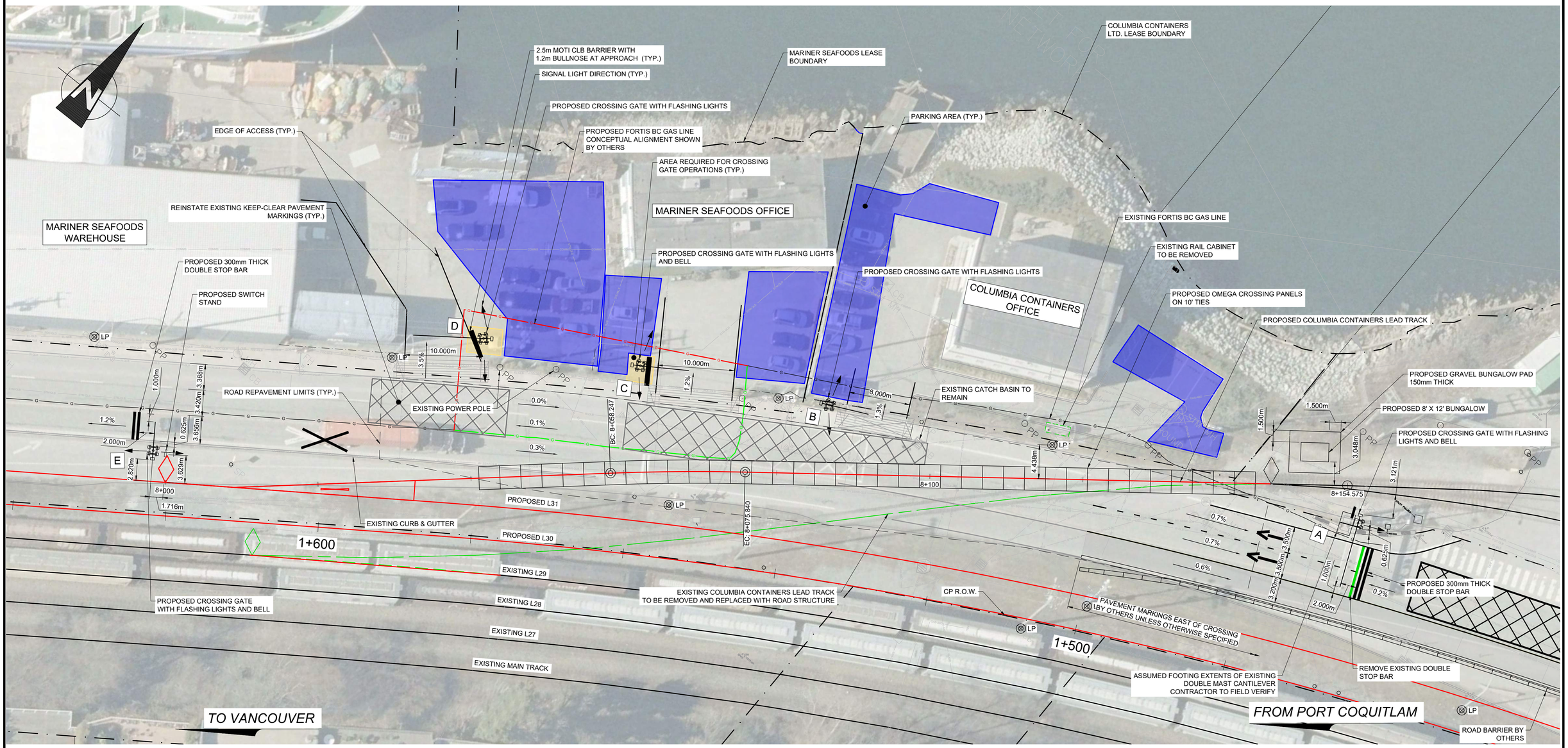
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.27 TO 126.93 CASCADE SUBDIVISION

EAST L YARD EXPANSION
COLUMBIA CONTAINERS CROSSING - MI 126.3
OVERVIEW

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-4601	Rev. A

Aug 03 , 2021 , 7:42pm Login name: mcke92314
Drawing Name: C:\pwworking\hh\mcke92314\d0694048\H362376-RW-100-S0-4601 to 4604.dwg



NOTE:

CONTRACTOR TO REINSTATE ALL PAVEMENT MARKINGS DAMAGED DURING CONSTRUCTION

2 m 0 1:250 10 m

PLAN
SCALE 1:250

GATE ARM LENGTH					
	A	B	C	D	E
ARM LENGTH FROM SIGNAL MAST	8.67	5.25	6.34	9.17	3.74

NOT FOR CONSTRUCTION

HATCH

METRIC
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DESIGNED BY:	DRAWN BY:
A.S. DATE: **06-29-21**	**A.S.** DATE: **06-29-21**
CHECKED BY: **P.B.** DATE: **08-03-21**	PROJECT MANAGER: **I.M.** DATE: **08-03-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

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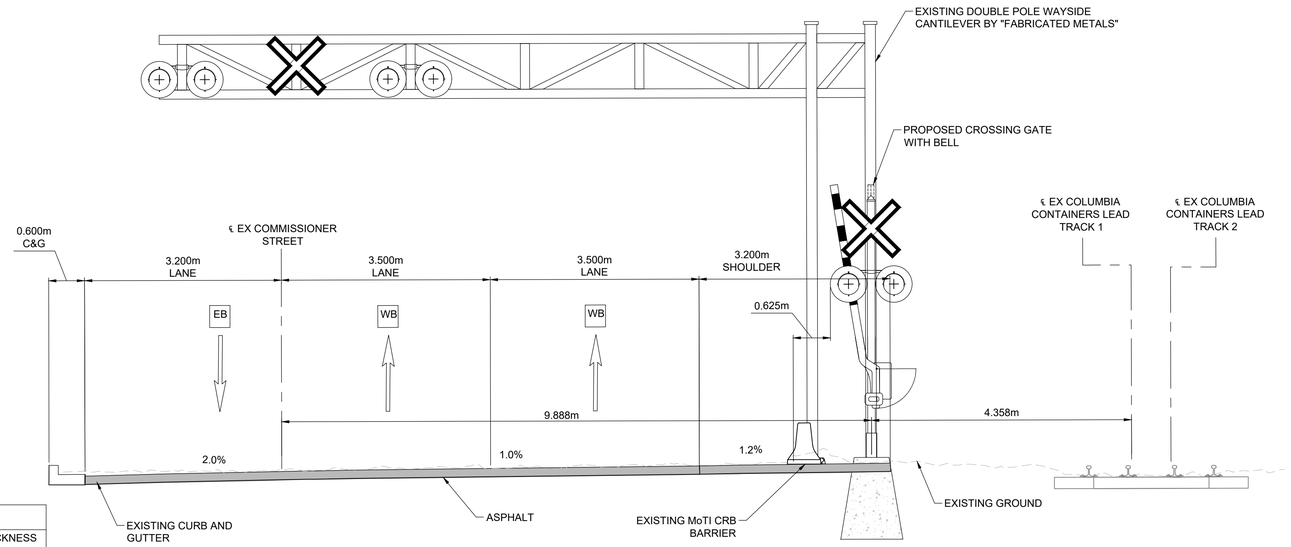
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.27 TO 126.93 CASCADE SUBDIVISION

EAST L YARD EXPANSION
COLUMBIA CONTAINERS CROSSING - MI 126.3
CROSSING LAYOUT

DWG. BY:	CHK BY:	OFFICE FILE:	
MANAGER - DESIGN:		SCALE:	
		DATE:	
M.FAVREAU DIR, PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-4602	Rev. A

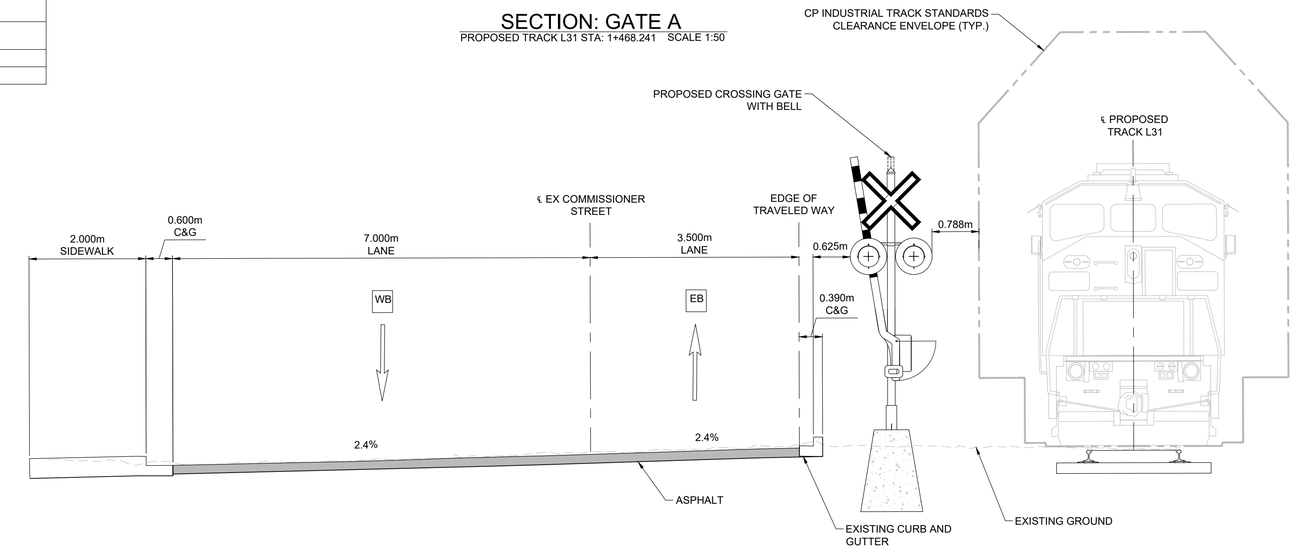
Aug 03 , 2021 , 7:39pm Login name: mcke92314
Drawing Name: C:\pwworking\hi\mcke92314\d0694048\H362376-RW-100-S0-4601 to 4604.dwg



SECTION: GATE A

PROPOSED TRACK L31 STA: 1+468.241 SCALE 1:50

ROAD STRUCTURE TABLE				
COMPONENT	THICKNESS (in)	THICKNESS (mm)	CUMULATIVE THICKNESS (in)	CUMULATIVE THICKNESS (mm)
12.5mm SUPERPAVE ASPHALTIC CONCRETE	2.0	50	2.0	50
LOWER COURSE #1 ASPHALTIC CONCRETE	6.9	175	8.9	225
25mm MINUS WELL GRADED BASE	7.9	200	16.8	425
75mm MINUS GRANULAR SUB-BASE	14.8	375	31.6	800



SECTION: GATE E

PROPOSED TRACK L30 STA: 1+622.253 SCALE 1:50

0.5 m 0 1:50 2.5 m

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
A.S. DATE: **06-29-21**	**A.S.** DATE: **06-29-21**
CHECKED BY: **P.B.** DATE: **08-03-21**	PROJECT MANAGER: **I.M.** DATE: **08-03-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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A	03-08-21	ISSUED FOR 90% DESIGN	A.S.

CP

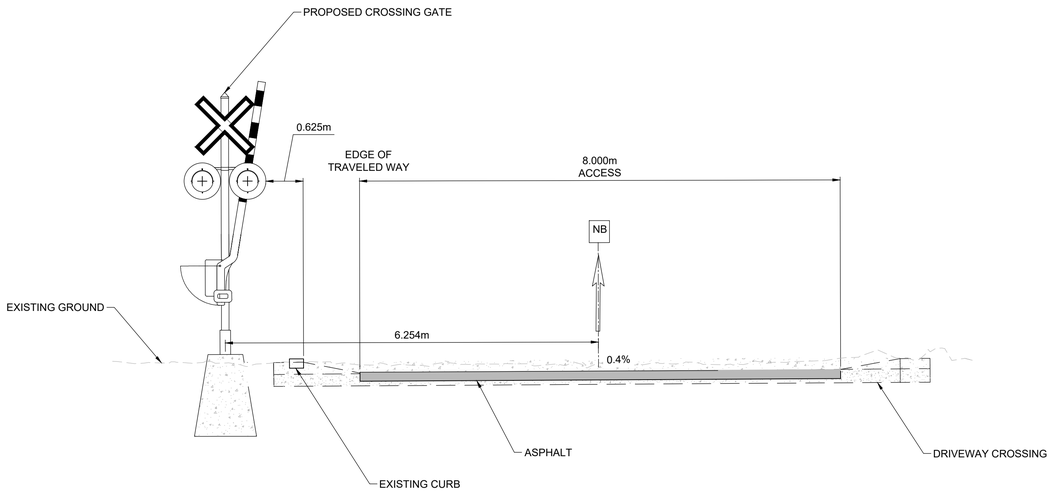
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.27 TO 126.93 CASCADE SUBDIVISION

EAST L YARD EXPANSION
COLUMBIA CONTAINERS CROSSING - MI 126.3
SECTIONS - COMMISSIONER STREET

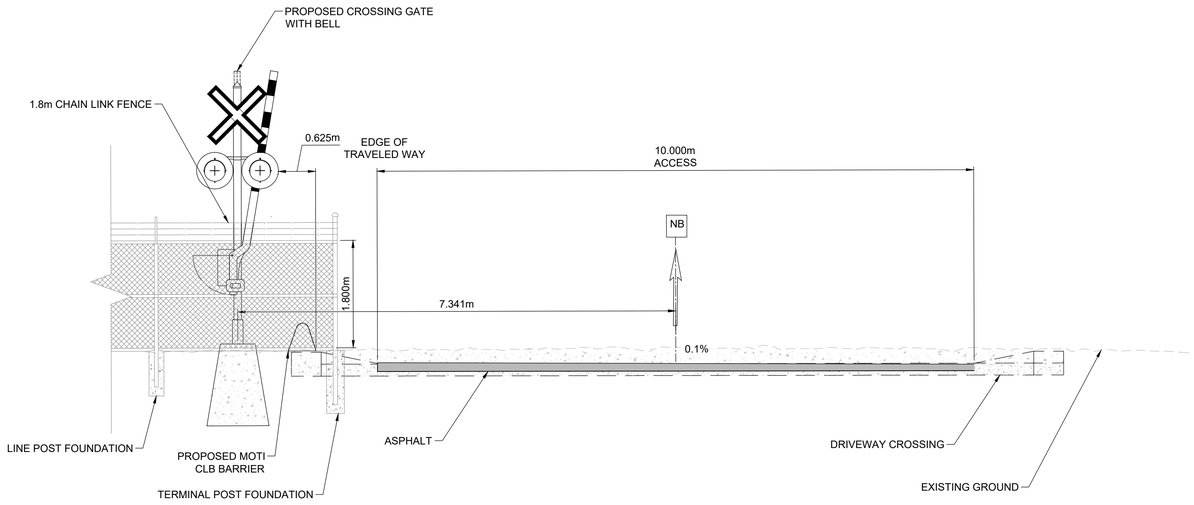
DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-4603	Rev. A

Aug 03 , 2021 , 4:12pm Login name: shob11128
Drawing Name: C:\pwworking\h\\posha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-4601 to 4604.dwg



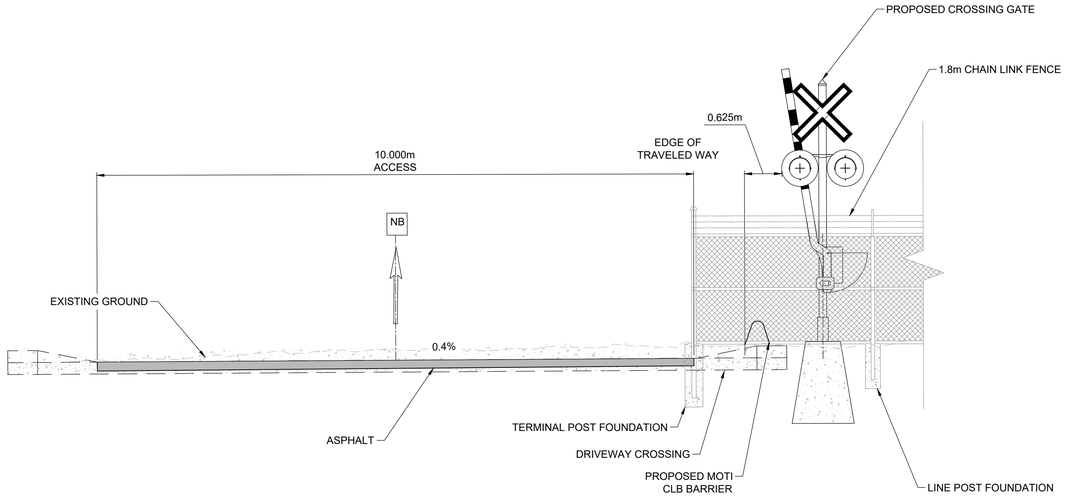
SECTION: GATE B - COLUMBIA CONTAINERS OFFICE ACCESS

STA: 8+088.121 SCALE 1:50



SECTION: GATE C - MARINER SEAFOODS OFFICE ACCESS

STA: 8+063.556 SCALE 1:50



SECTION: GATE D - MARINER SEAFOODS WAREHOUSE ACCESS

STA: 8+042.521 SCALE 1:50

0.5 m 0 1:50 2.5 m

NOT FOR CONSTRUCTION

HATCH

METRIC
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DESIGNED BY: **A.S.** DATE: **06-29-21**	DRAWN BY: **A.S.** DATE: **06-29-21**
CHECKED BY: **P.B.** DATE: **08-03-21**	PROJECT MANAGER: **I.M.** DATE: **08-03-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	A.S.

CP

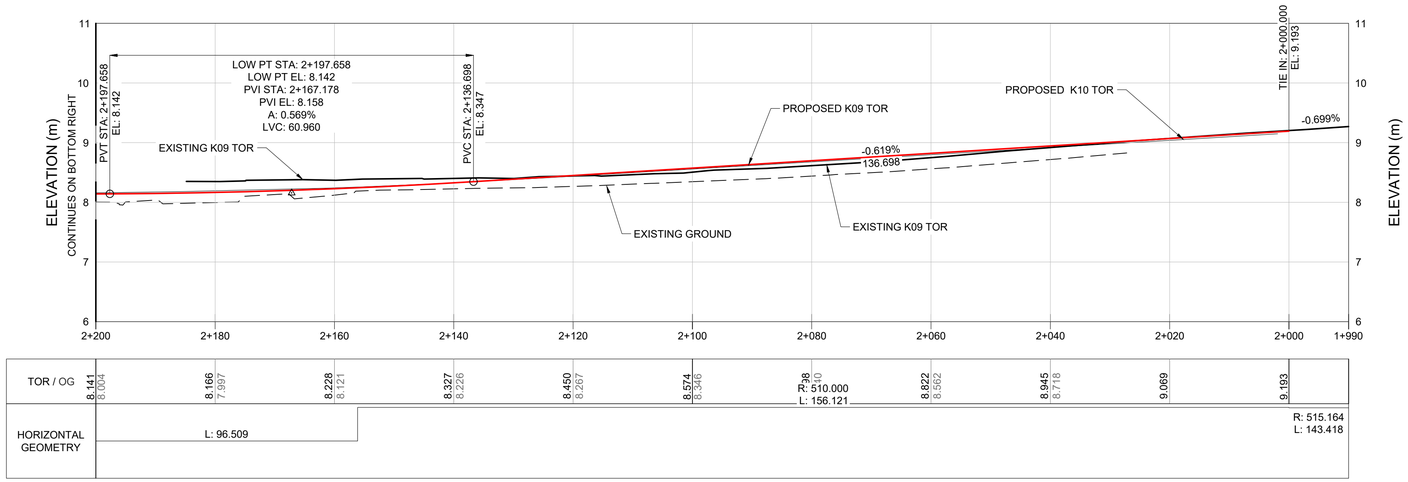
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.27 TO 126.93 CASCADE SUBDIVISION

EAST L YARD EXPANSION
COLUMBIA CONTAINERS CROSSING - MI 126.3
SECTIONS - TENANT ACCESS

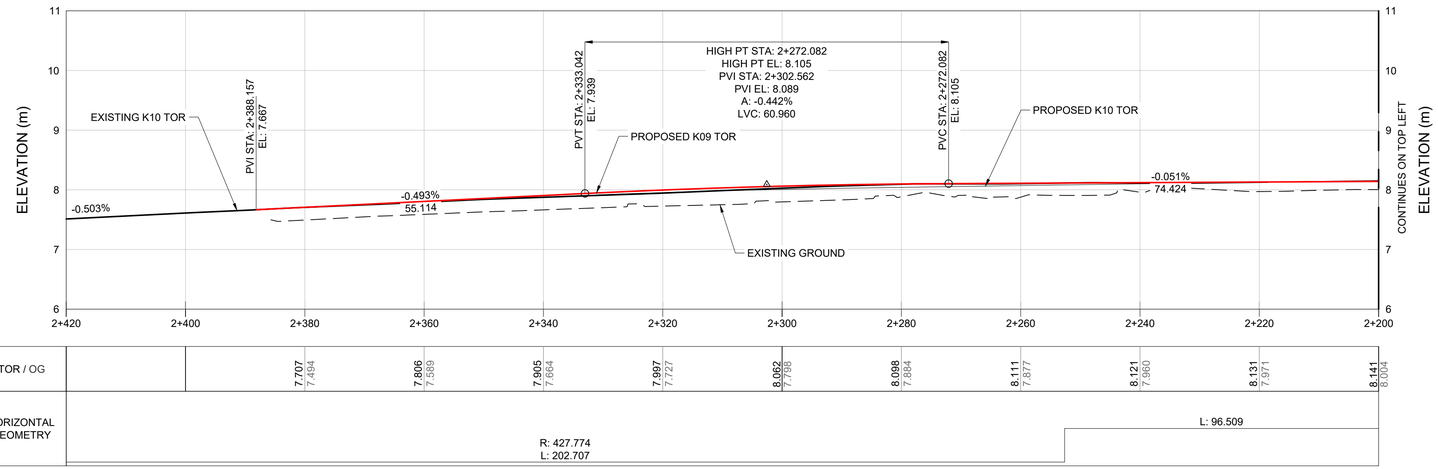
DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-4604 Rev. A

Aug 03 , 2021 , 4:12pm Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shoberi@hatch.com\d0694048\H362376-RW-100-S0-4601 to 4604.dwg



PROFILE TRACK K09 STA 2+000 TO 2+200

H SCALE 1:500
V SCALE 1:50



PROFILE TRACK K09 STA 2+200 TO 2+388.157

H SCALE 1:500
V SCALE 1:50

NOT FOR CONSTRUCTION

5 m 0 1:500 25 m

0.5 m 0 1:50 2.5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
L.C.	L.C.
DATE: 11-09-20	DATE: 11-09-20
CHECKED BY:	PROJECT MANAGER:
V.C.	I.M.
DATE: 11-09-20	DATE: 11-09-20
HATCH PROJECT No:	DWG SCALE(FULL SIZE):
H362376	AS SHOWN

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
B	30-07-21	ISSUED FOR 90% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP

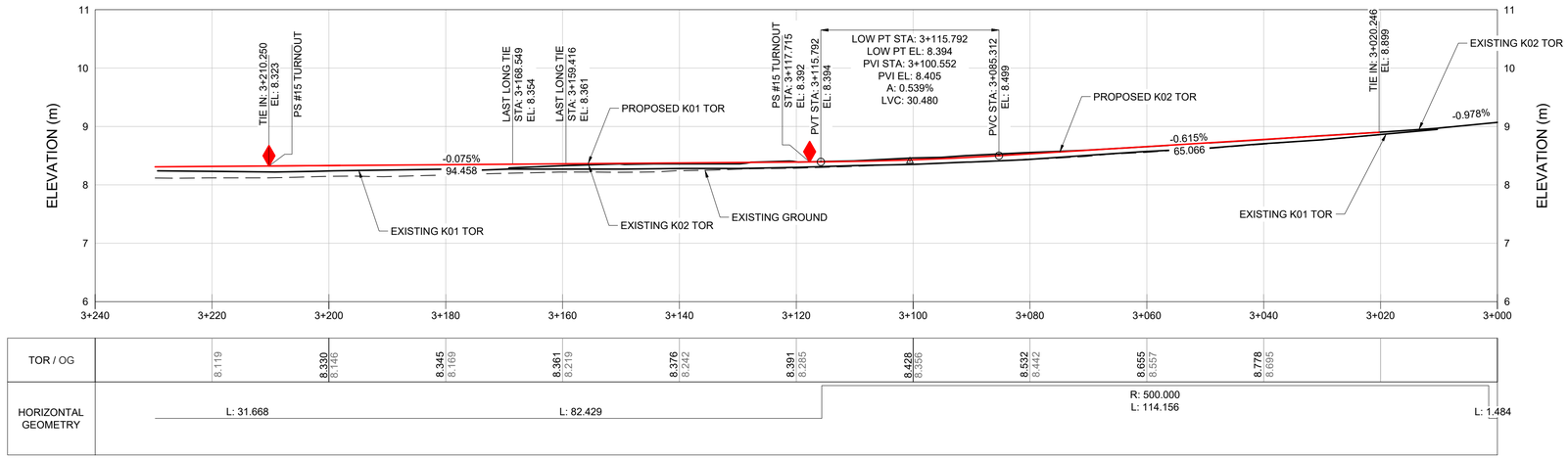
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - PROFILE
TRACK K09

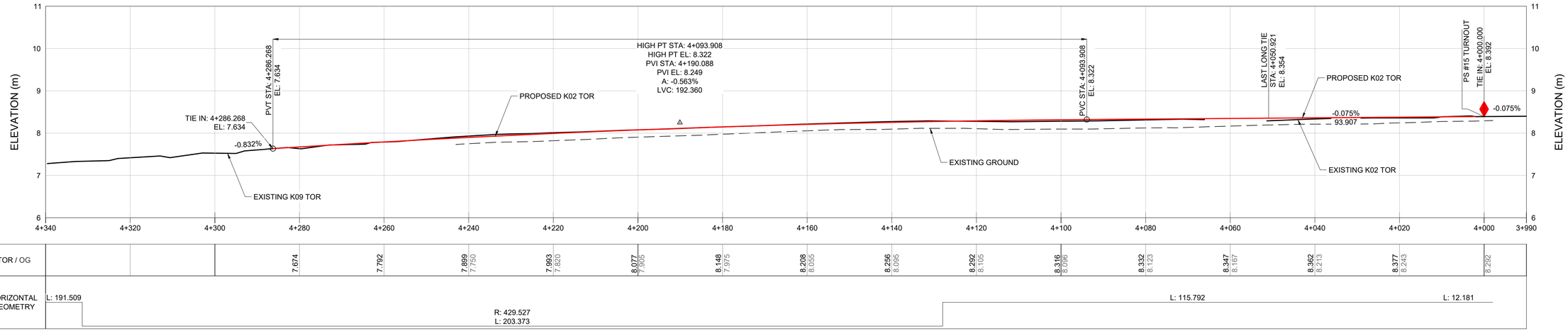
DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-5001	Rev. B

Aug 03 , 2021 , 12:40pm Login name: shobi11128
Drawing Name: C:\pwworking\hh\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-5001 to 5003.dwg



PROFILE TRACK K02 TO K01 CROSSOVER STA 3+000 TO 3+210.250

H SCALE 1:500
V SCALE 1:50



PROFILE TRACK K02 STA 4+000 TO 4+286.268

H SCALE 1:500
V SCALE 1:50

NOT FOR CONSTRUCTION

5 m 0 1:500 25 m

0.5 m 0 1:50 2.5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **L.C.** DATE: **11-09-20**	DRAWN BY: **L.C.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
B	30-07-21	ISSUED FOR 90% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP

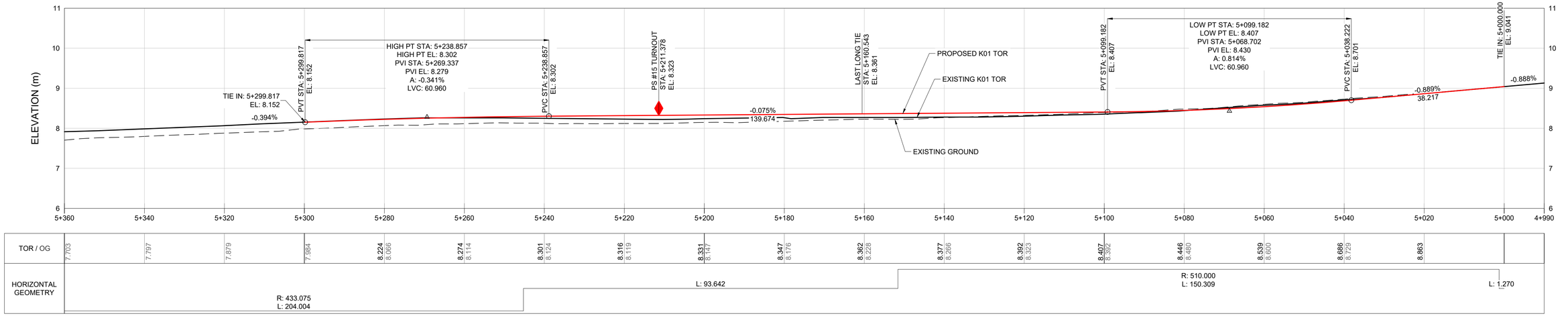
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - PROFILE
TRACK K01 & TRACK K02 TO K01

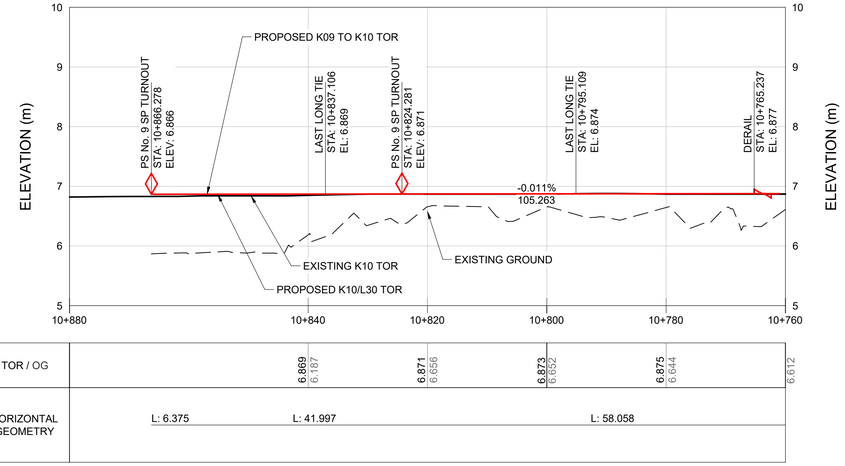
DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-5002 Rev. B

Aug 03 , 2021 , 12:40pm Login name: shob11128
Drawing Name: C:\pwworking\h\\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-5001 to 5003.dwg



PROFILE TRACK K01 STA 5+000 TO 5+299.817

H SCALE 1:500
V SCALE 1:50



PROFILE TRACK K09 TO K10 STA 10+760 TO 10+866.278

H SCALE 1:500
V SCALE 1:50

NOT FOR CONSTRUCTION

5 m 0 1:500 25 m

0.5 m 0 1:50 2.5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
L.C.	L.C.
DATE: 11-09-20	DATE: 11-09-20
CHECKED BY:	PROJECT MANAGER:
V.C.	I.M.
DATE: 11-09-20	DATE: 11-09-20
HATCH PROJECT No:	DWG SCALE(FULL SIZE):
H362376	AS SHOWN

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
B	30-07-21	ISSUED FOR 90% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP

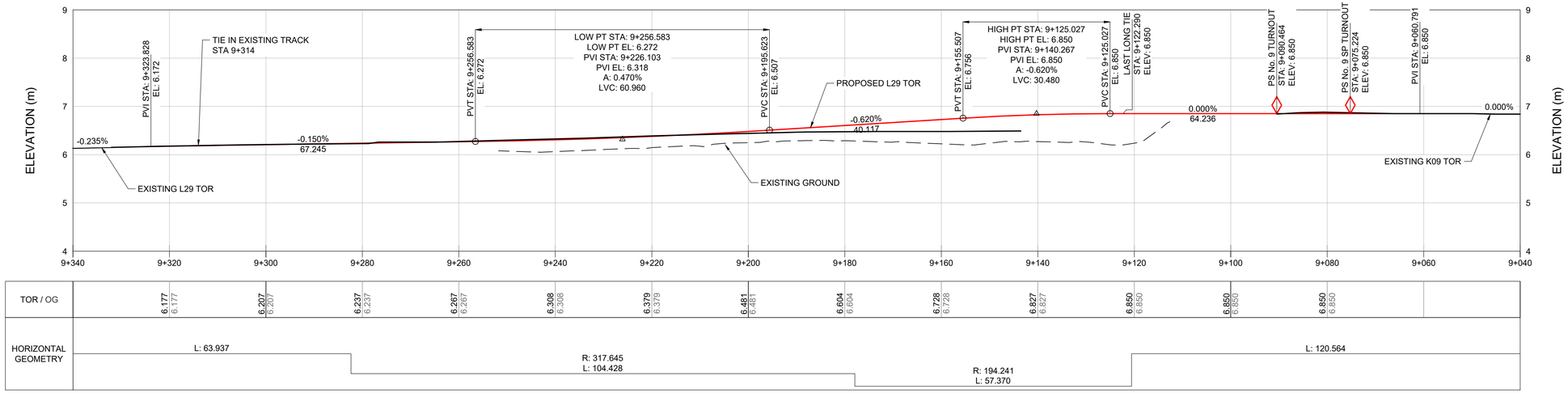
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - PROFILE
TRACK K01 & TRACK K09-K10 CONNECTION

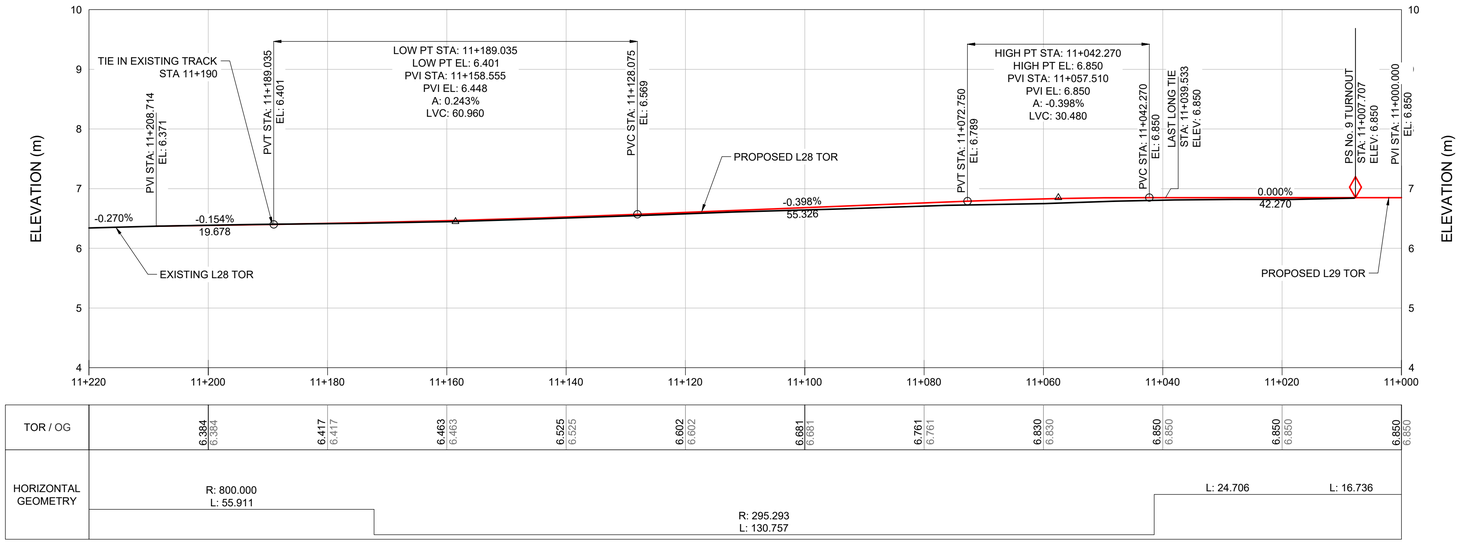
DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-5003	Rev. B

Aug 03 , 2021 , 12:40pm Login name: stobl11128
Drawing Name: C:\pwworking\hi\posha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-5001 to 5003.dwg



PROFILE TRACK L29 STA 9+075.224 TO 9+314

SCALE 1:500
V SCALE 1:50



PROFILE TRACK L28 STA 11+007.707 TO 11+190H

SCALE 1:500
V SCALE 1:50

NOT FOR CONSTRUCTION

5 m 0 1:500 25 m

0.5 m 0 1:50 2.5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **L.C.** DATE: 11-09-20	DRAWN BY: **A.S.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
B	30-07-21	ISSUED FOR 90% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

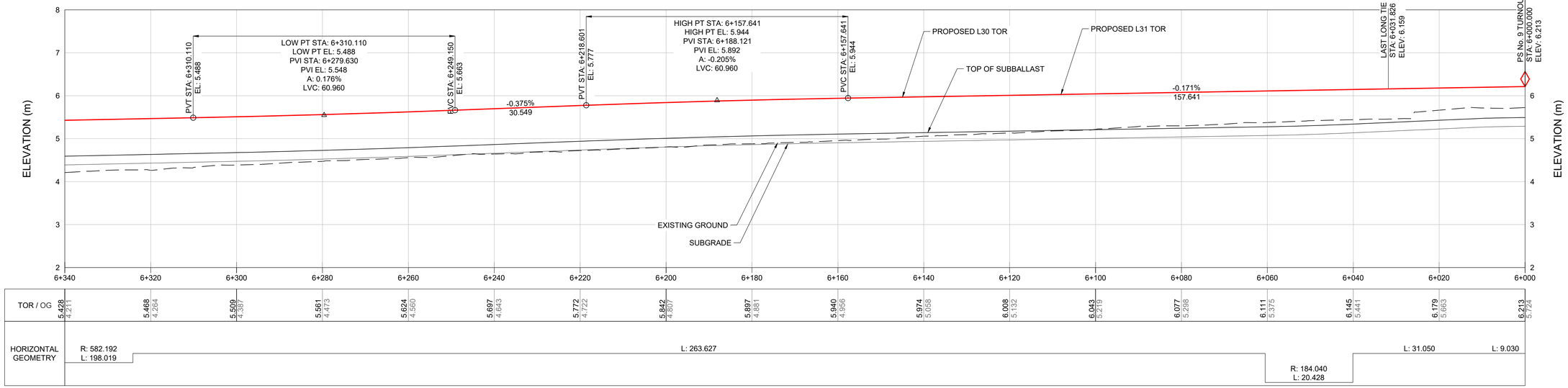
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.27 TO 126.93 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - PROFILE
TRACK L29 & TRACK L28

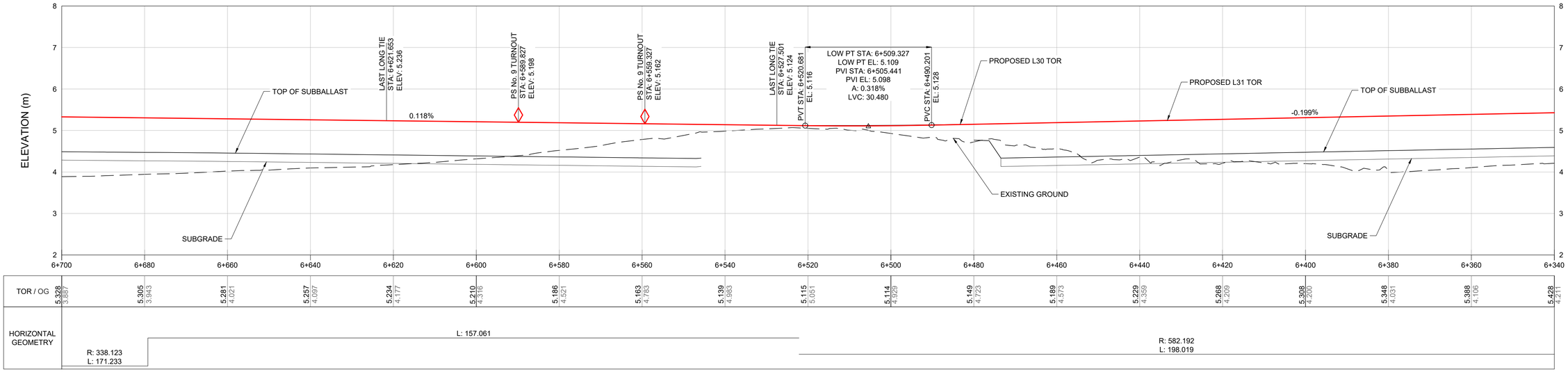
DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE: DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-5004 Rev. B

Aug 03 , 2021 , 2:44pm Login name: shob11128
Drawing Name: C:\pwworking\h\\posha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-5004 to 5007-UPDATE.dwg



PROFILE TRACK L31 STA 6+000 TO 6+340

H SCALE 1:500
V SCALE 1:50



PROFILE TRACK L31 STA 6+340 TO 6+700

H SCALE 1:500
V SCALE 1:50

NOT FOR CONSTRUCTION

5 m 0 1:500 25 m

0.5 m 0 1:50 2.5 m

Aug 03 , 2021 - 2:48pm Login name: shob11128
Drawing Name: C:\pwworking\jh\posha.shoberi@hatch.com\d0694048\H362376-RW-100-S0-5004 to 5007-UPDATE.dwg

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
L.C. DATE: 11-09-20	**A.S.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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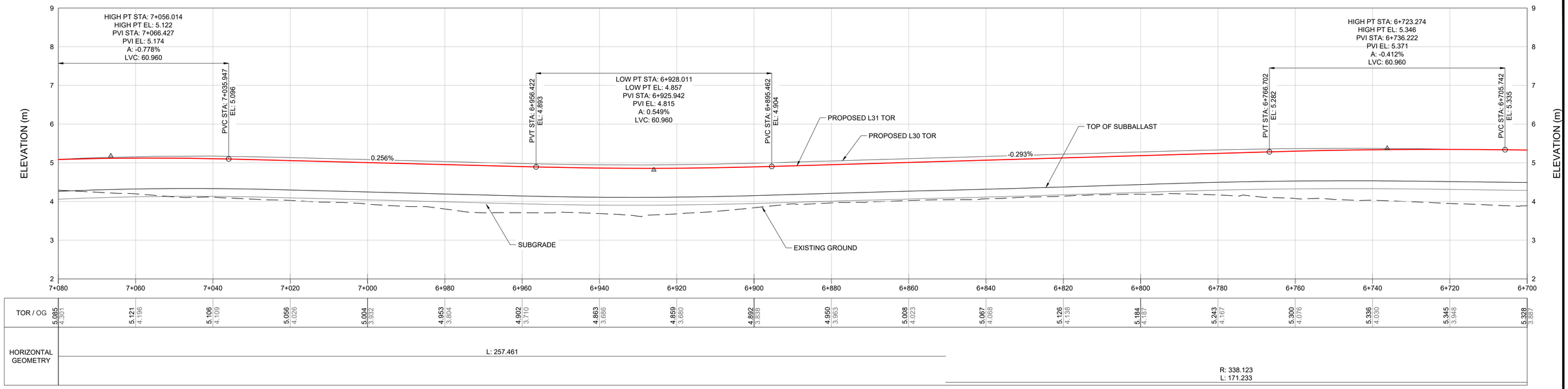
No.	DATE	REVISION	BY
C	30-07-21	ISSUED FOR 90% DESIGN	F.D.
B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.27 TO 126.93 CASCADE SUBDIVISION

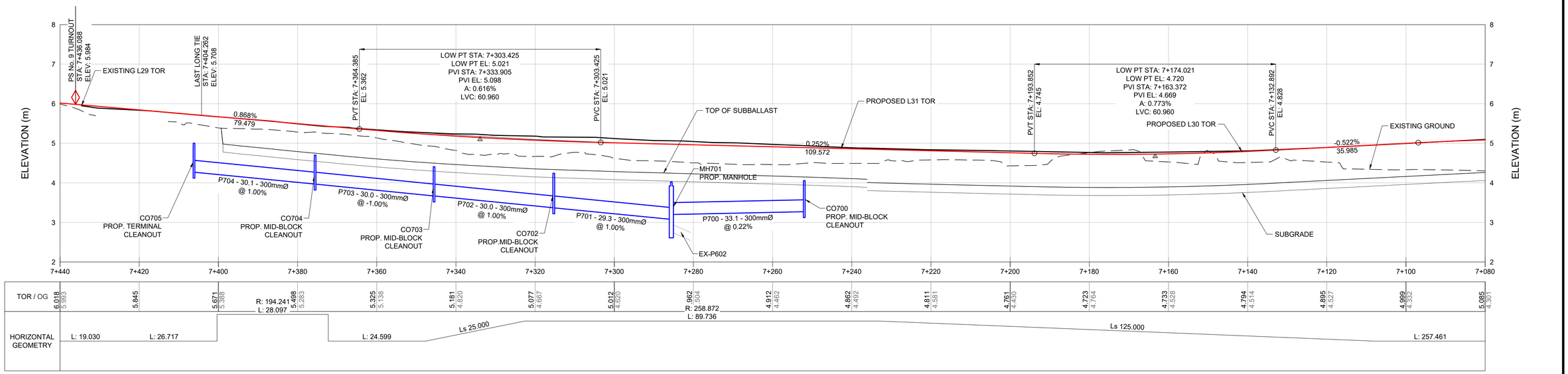
EAST L YARD EXPANSION
RAIL - PROFILE
TRACK L31 - SHEET 1

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-5005	Rev. C



PROFILE TRACK L31 STA 6+700 TO 7+080

H SCALE 1:500
V SCALE 1:50



PROFILE TRACK L31 STA 7+080 TO 7+436.088

H SCALE 1:500
V SCALE 1:50

NOT FOR CONSTRUCTION

5 m 0 1:500 25 m

0.5 m 0 1:50 2.5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **L.C.** DATE: **11-09-20**	DRAWN BY: **A.S.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (CLIENT) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
C	30-07-21	ISSUED FOR 90% DESIGN	F.D.
B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP

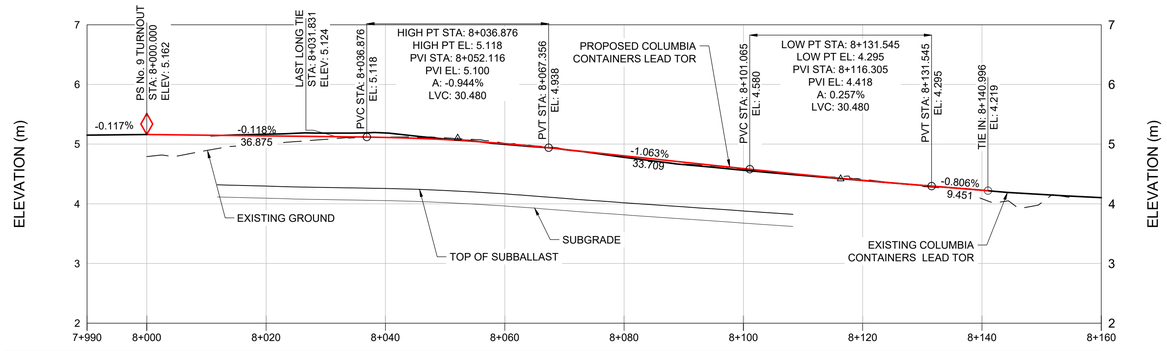
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.27 TO 126.93 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - PROFILE
TRACK L31 - PROFILE 2

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-5006 Rev. C

Aug 03 , 2021 , 2:48pm Login name: shobi11128
Drawing Name: C:\pwworking\in\posha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-5004 to 5007-UPDATE.dwg



PROFILE - COLUMBIA CONTAINERS LEAD TRACK STA 8+000 TO 8+140.996

H SCALE 1:500
V SCALE 1:50

5 m 0 1:500 25 m

0.5 m 0 1:50 2.5 m

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES
UNLESS OTHERWISE NOTED

DESIGNED BY: **L.C.** DATE: **11-09-20**	DRAWN BY: **A.S.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
B	30-07-21	ISSUED FOR 90% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

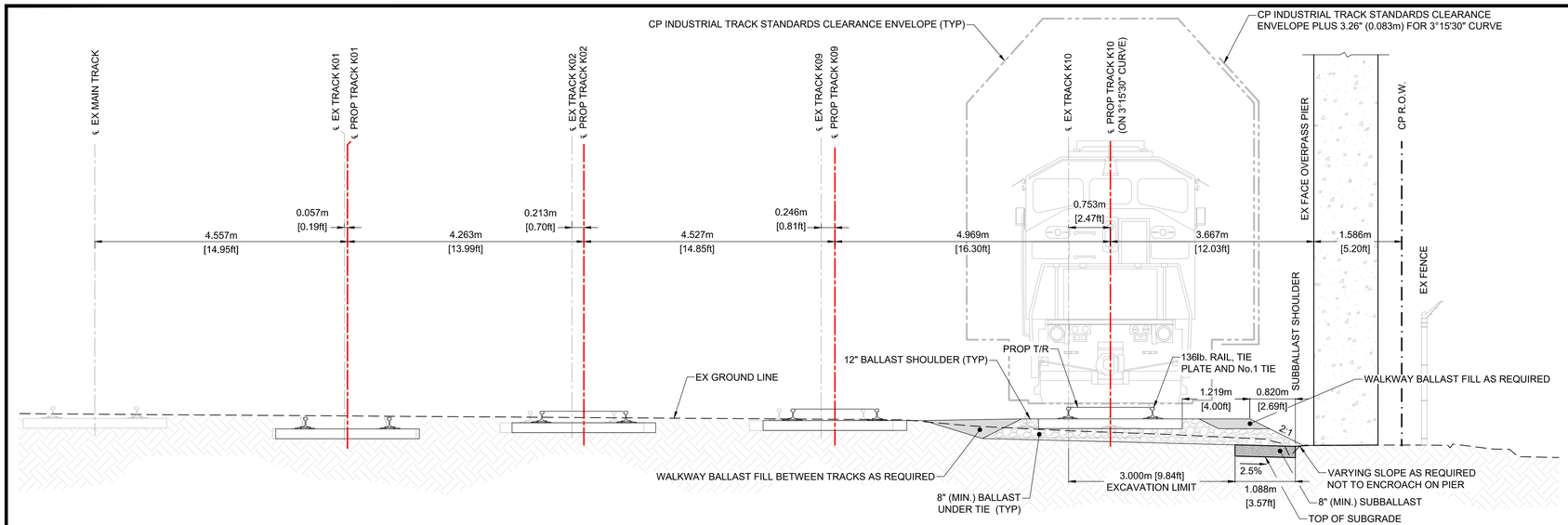
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.27 TO 126.93 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - PROFILE
COLUMBIA CONTAINERS LEAD TRACK

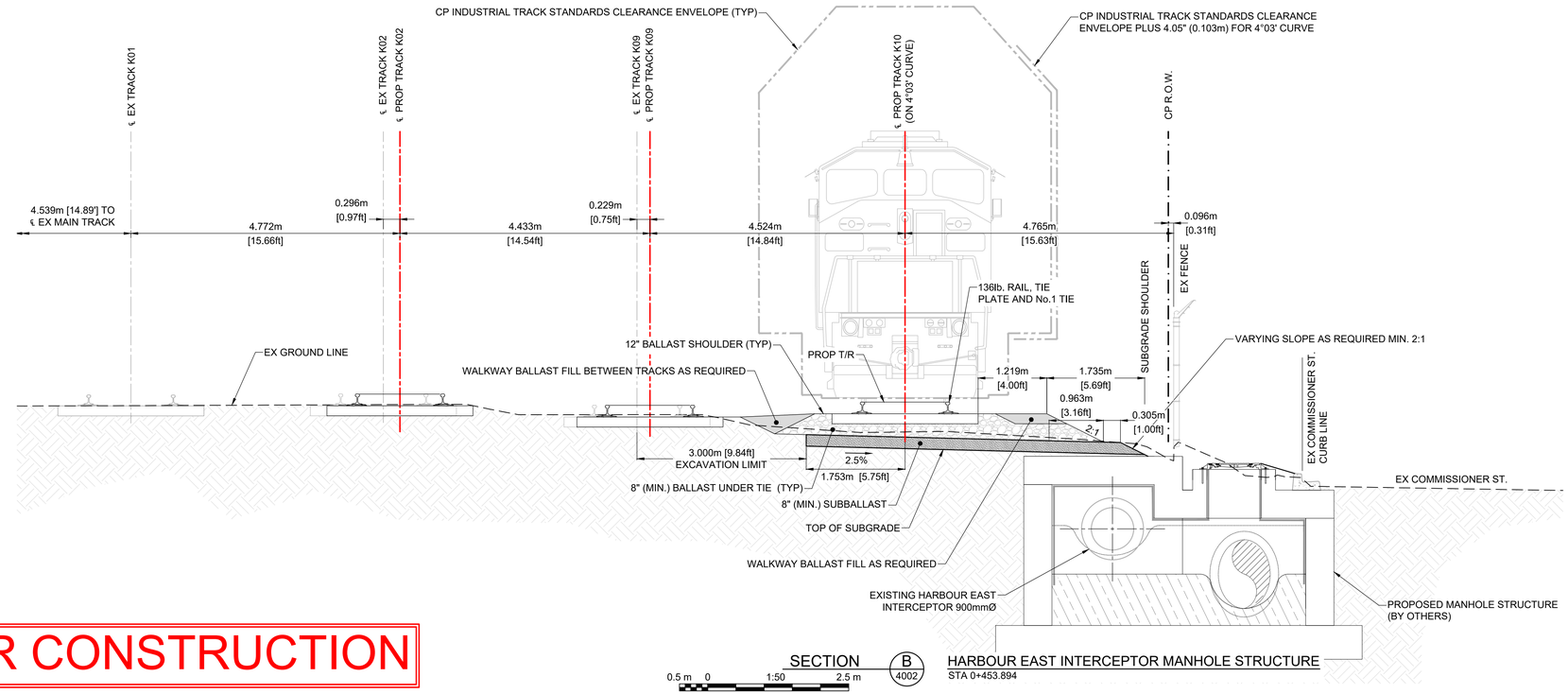
DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-5007 Rev. B

Aug 03 , 2021 , 2:49pm Login name: shob11128
Drawing Name: C:\pwworking\vi\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-5004 to 5007-UPDATE.dwg



SECTION A 4001 — OVERPASS PIER
STA 0+219.028

0.5 m 0 1:50 2.5 m



SECTION B 4002 — HARBOUR EAST INTERCEPTOR MANHOLE STRUCTURE
STA 0+453.894

0.5 m 0 1:50 2.5 m

NOTE:

1. TOP 175mm OF BALLAST WALKWAY TO BE GRADE 3 WALKING BALLAST THROUGH PROJECT CORRIDOR

NOT FOR CONSTRUCTION

Aug 03 , 2021 , 2:16pm Login name: fros78200
Drawing Name: C:\pwworking\hh\fros78200\d0694048\t362376-RW-100-S0-6001.dwg

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **11-09-20**	DRAWN BY: **A.S./D.B.F.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:50**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (CLIENT) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

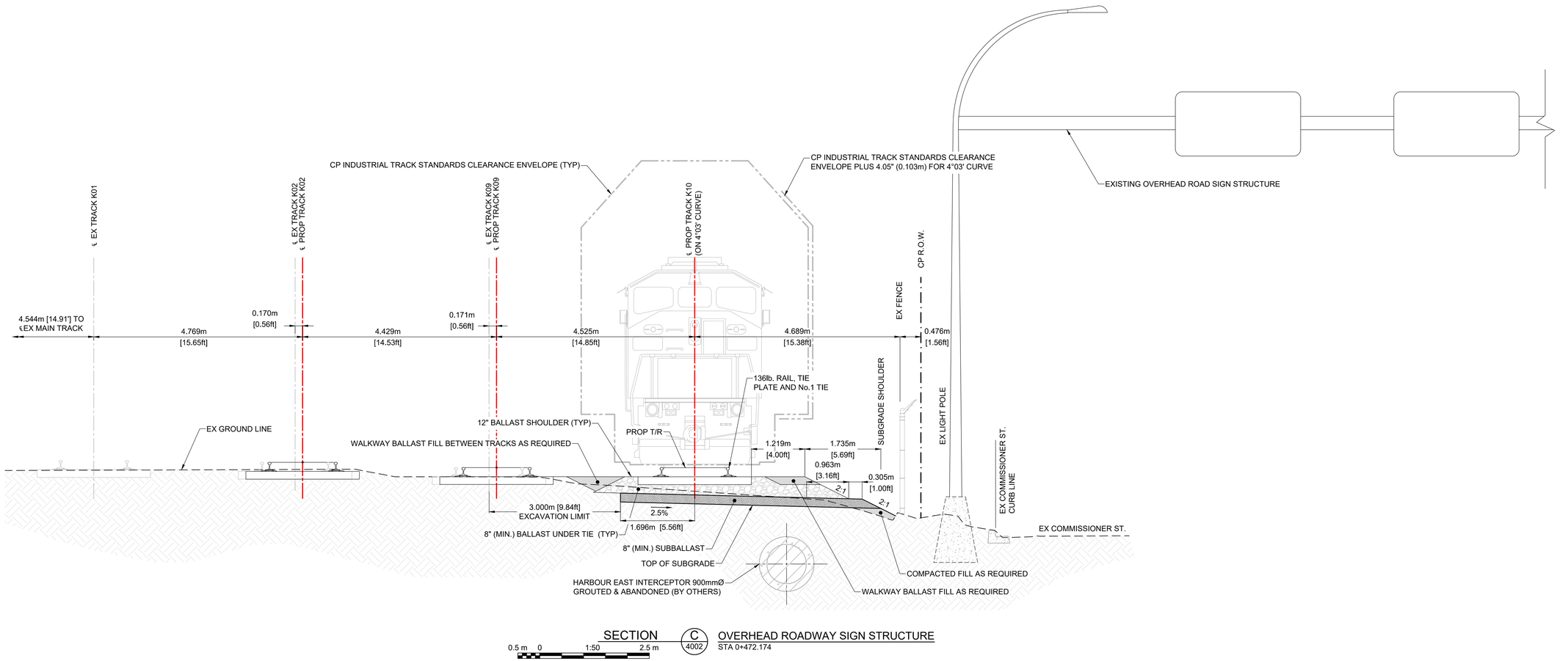
No.	DATE	REVISION	BY
C	03-08-21	ISSUED FOR 90% DESIGN	F.D.
B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - SECTIONS
SHEET 1 - STA 0+219.028 & 0+453.894

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-6001 Rev. C



SECTION C 4002 OVERHEAD ROADWAY SIGN STRUCTURE
STA 0+472.174

0.5 m 0 1:50 2.5 m

NOT FOR CONSTRUCTION

NOTE:

1. TOP 175mm OF BALLAST WALKWAY TO BE GRADE 3 WALKING BALLAST THROUGH PROJECT CORRIDOR

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **11-09-20**	DRAWN BY: **A.S./D.B.F.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:50**

PROFESSIONAL SEALS

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B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP

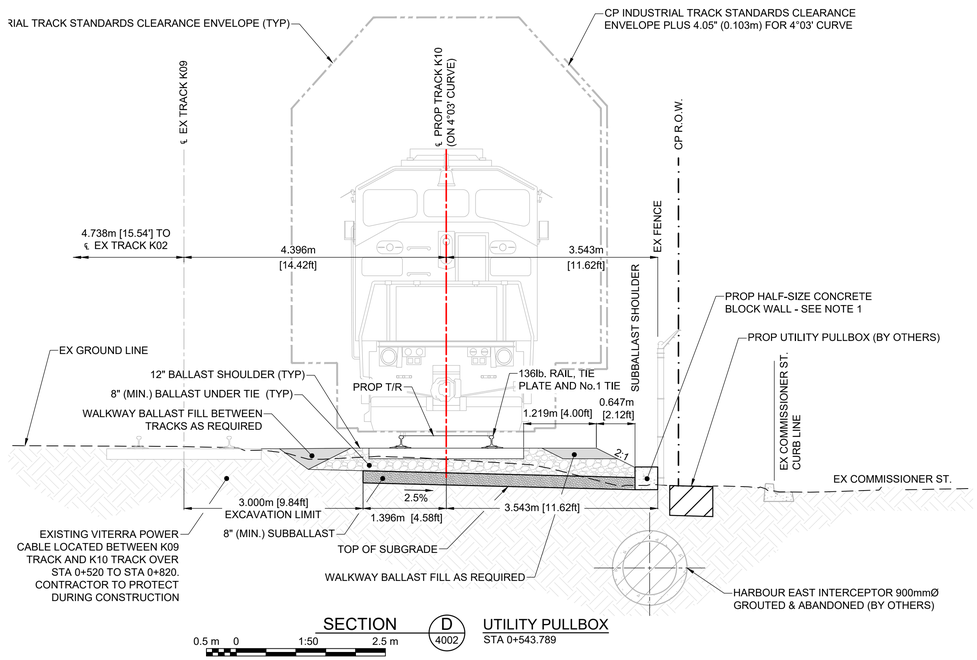
ENGINEERING PROJECTS - WEST

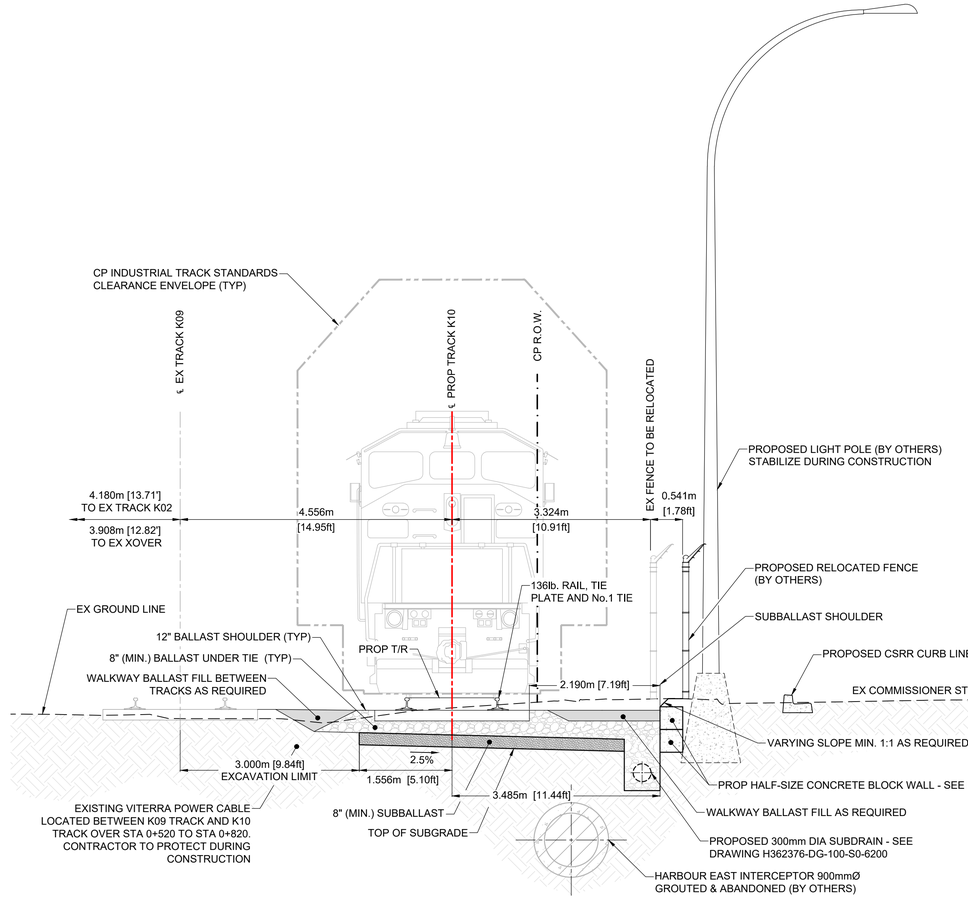
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - SECTIONS
SHEET 2 - STA 0+472.174

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-6002 Rev. C

Aug 03 , 2021 , 2:17pm Login name: tras78200
Drawing Name: C:\pwworking\hi\tras78200\d0694048\H362376-RW-100-S0-6001.dwg





NOTE:

1. CONTRACTOR TO PLACE HALF SIZE CONCRETE BLOCK WALL, OR APPROVED EQUIVALENT, AS REQUIRED TO STABILIZE SLOPE PRIOR TO BALLAST PLACEMENT. CUT SLOPE NOT TO EXCEED 1H:2V DURING BLOCK PLACEMENT, AND 1H:1V AFTER BLOCK PLACEMENT. EXISTING FENCE TO REMAIN DURING CONSTRUCTION.
2. TOP 175mm OF BALLAST WALKWAY TO BE GRADE 3 WALKING BALLAST THROUGH PROJECT CORRIDOR

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: **11-09-20**	**A.S./D.B.F.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:50**

PROFESSIONAL SEALS

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B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP

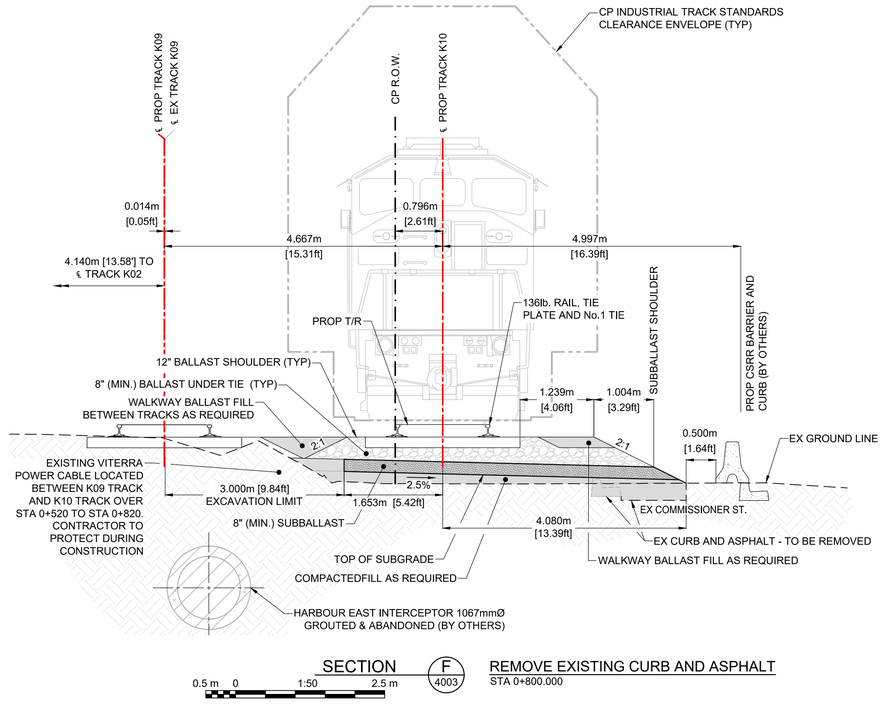
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - SECTIONS
SHEET 3 - STA 0+543.789 & STA 0+632.821

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-6003 / Rev. C

Aug 03 , 2021 , 2:18pm Login name: fras78200
Drawing Name: C:\pwworking\ir\fras78200\d069048\H362376-RW-100-S0-6001.dwg

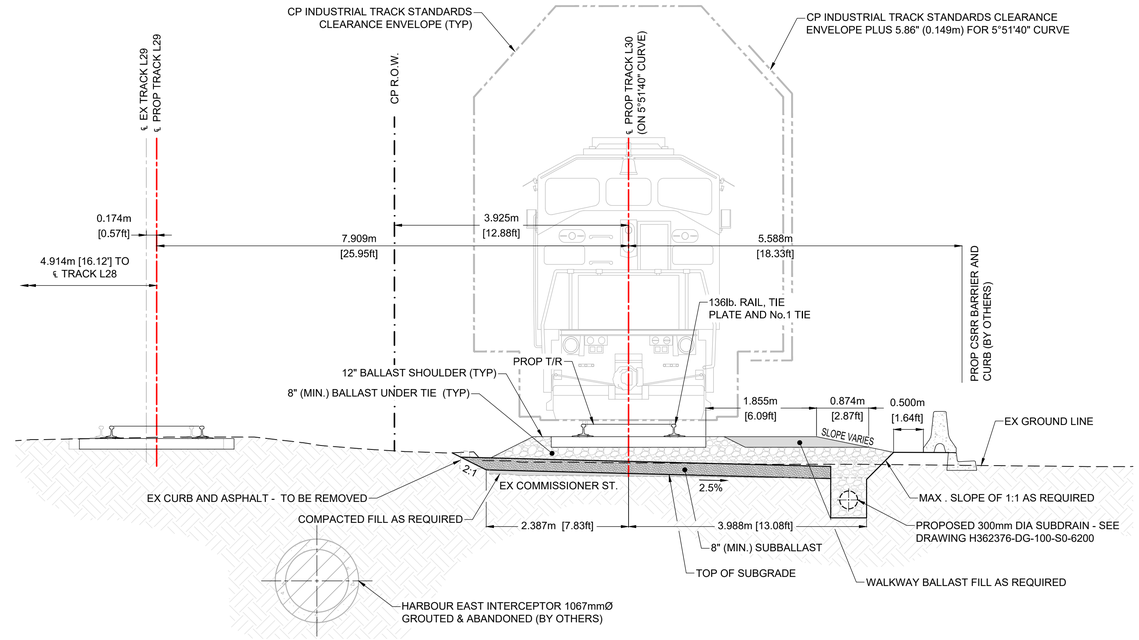


SECTION F 4003

0.5 m 0 1:50 2.5 m

REMOVE EXISTING CURB AND ASPHALT

STA 0+800.000



SECTION G 4003

0.5 m 0 1:50 2.5 m

GRADE BACK TO PROPOSED BARRIER

STA 0+956.559

NOTE:

1. TOP 175mm OF BALLAST WALKWAY TO BE GRADE 3 WALKING BALLAST THROUGH PROJECT CORRIDOR

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **11-09-20**	DRAWN BY: **A.S./D.B.F.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:50**

PROFESSIONAL SEALS

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C	03-08-21	ISSUED FOR 90% DESIGN	F.D.
B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP

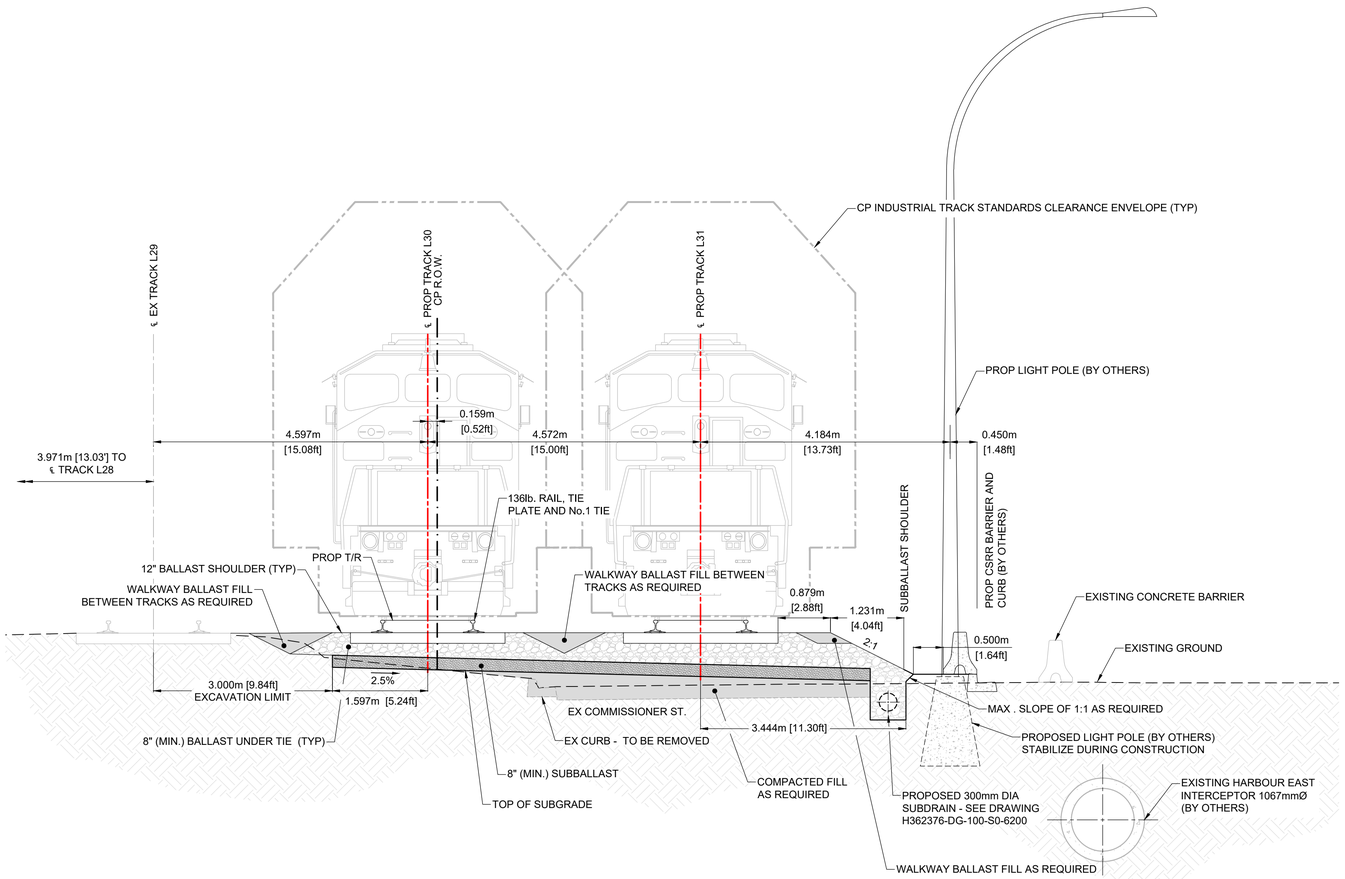
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - SECTIONS
SHEET 4 - STA 0+800.000 & 0+956.559

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-6004 Rev. C

Aug 03 , 2021 , 2:20pm Login name: fras78200
Drawing Name: C:\pwworking\h\fras78200\d0694048\H362376-RW-100-S0-6001.dwg



SECTION H 4004

NEW LIGHT POLE AND BARRIER
STA 1+333.337

0.5 m 0 1:50 2.5 m

NOTE:

1. TOP 175mm OF BALLAST WALKWAY TO BE GRADE 3 WALKING BALLAST THROUGH PROJECT CORRIDOR

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **11-09-20**	DRAWN BY: **A.S./D.B.F.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:50**

PROFESSIONAL SEALS

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B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

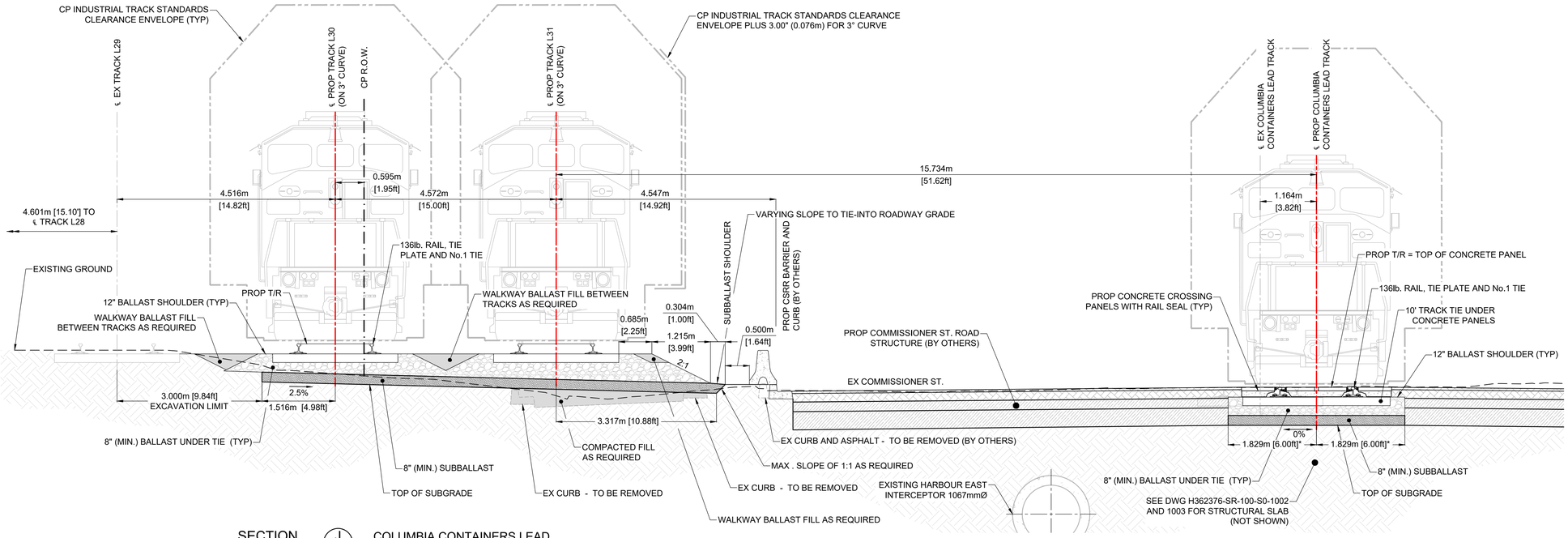
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - SECTIONS
SHEET 5 - STA 1+333.337

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE: DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-6005 Rev. C

Aug 03 , 2021 , 2:20pm Login name: frss78200
Drawing Name: C:\pwworking\hi\frss78200\d0694046\H362376-RW-100-S0-6001.dwg

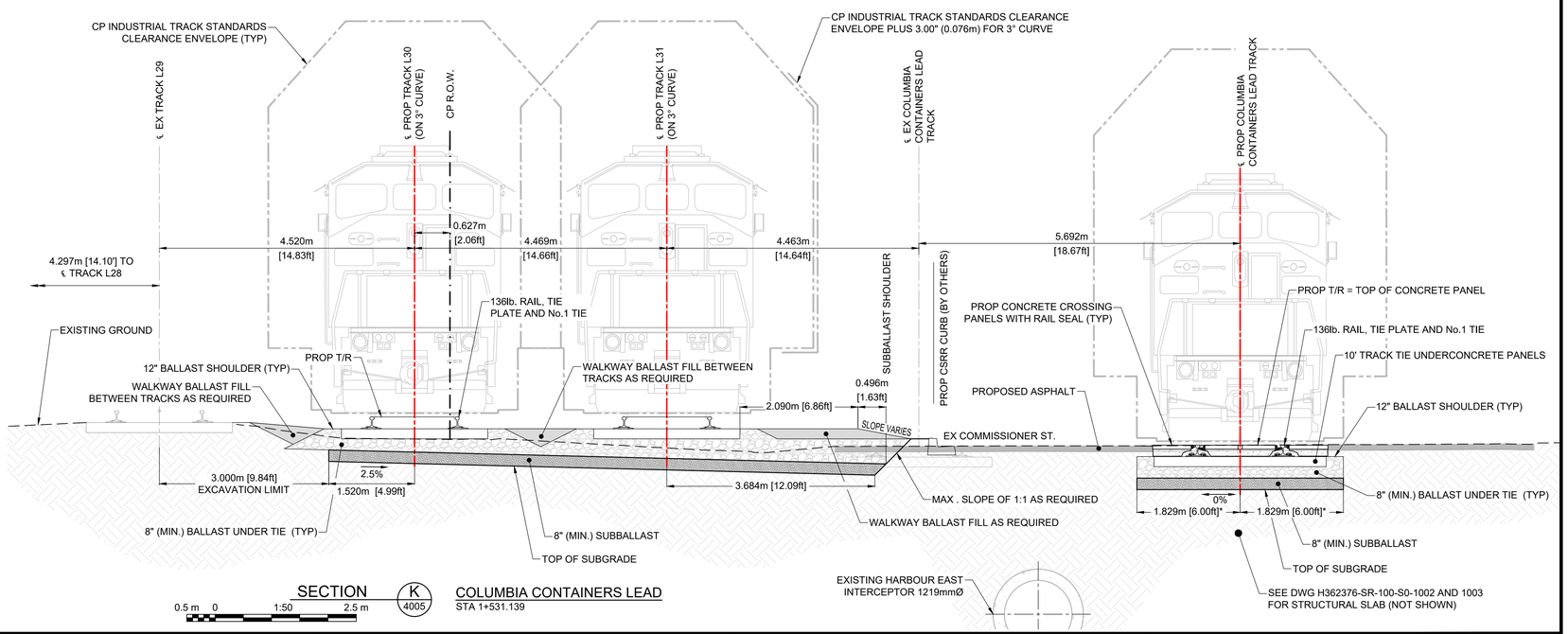


SECTION J 4005
0.5 m 0 1:50 2.5 m

COLUMBIA CONTAINERS LEAD
STA 1+497.643

NOTE:

1. TOP 175mm OF BALLAST WALKWAY TO BE GRADE 3 WALKING BALLAST THROUGH PROJECT CORRIDOR.
2. ON PROP COLUMBIA CONTAINER LEAD TRACK, ASTERISK DIMENSION (*) IS 1.600M (5.25FT) WHEN AN 8.5' TRACK TIE IS USED. ASTERISK DIMENSION, AS SHOWN, IS FOR A 10' TRACK TIE.



SECTION K 4005
0.5 m 0 1:50 2.5 m

COLUMBIA CONTAINERS LEAD
STA 1+531.139

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **11-09-20**	DRAWN BY: **A.S./D.B.F.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:50**

PROFESSIONAL SEALS

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B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP

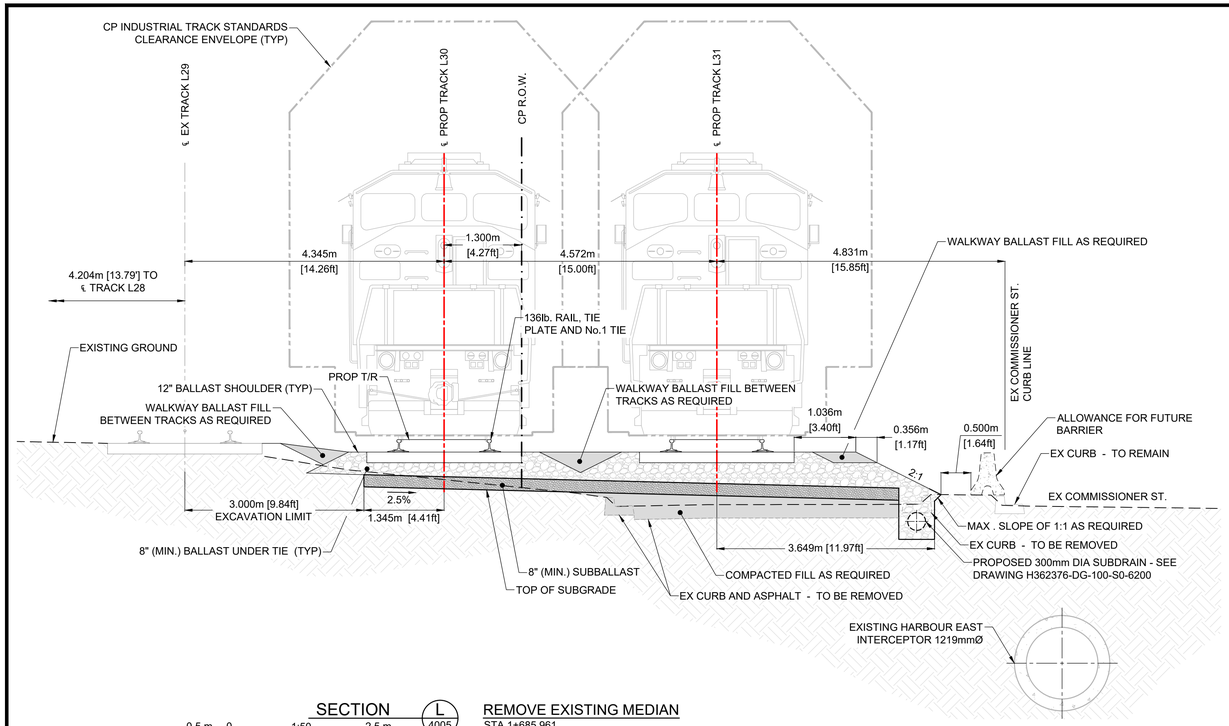
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - SECTIONS
SHEET 6 - STA 1+497.643 & 1+531.139

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-6006 Rev. C

Aug 03 , 2021 , 2:20pm Login name: fros78200
Drawing Name: C:\pwworking\h\fros78200\d0694048\H362376-RW-100-S0-6001.dwg



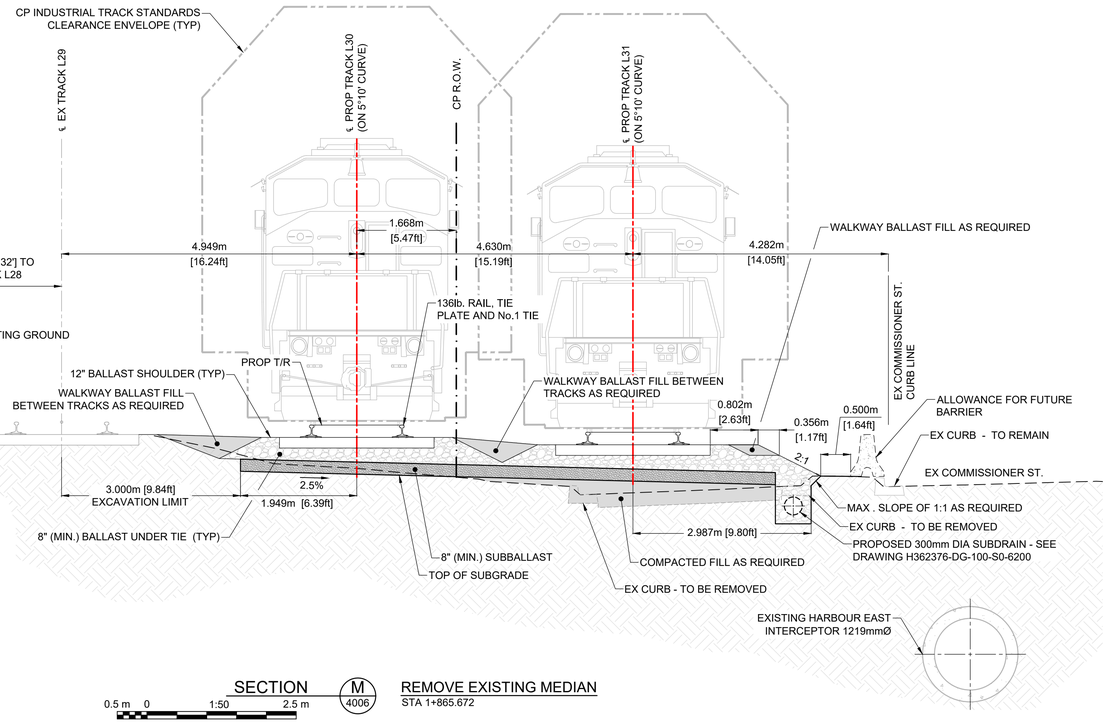
SECTION L 4005

0.5 m 0 1:50 2.5 m

REMOVE EXISTING MEDIAN
STA 1+685.961

NOTE:

1. TOP 175mm OF BALLAST WALKWAY TO BE GRADE 3 WALKING BALLAST THROUGH PROJECT CORRIDOR



SECTION M 4006

0.5 m 0 1:50 2.5 m

REMOVE EXISTING MEDIAN
STA 1+865.672

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **11-09-20**	DRAWN BY: **A.S./D.B.F.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:50**

PROFESSIONAL SEALS

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A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP

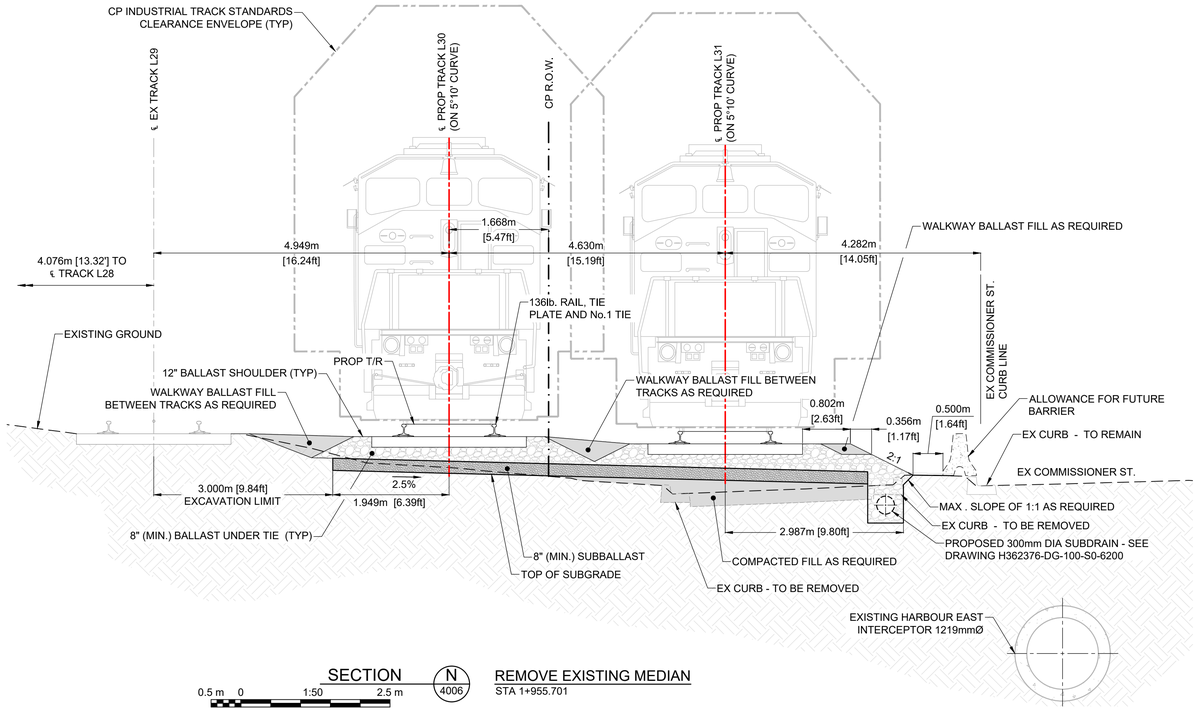
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - SECTIONS
SHEET 7 - STA 1+685.961 & 1+865.672

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-6007 Rev. C

Aug 03 , 2021 , 2:24pm Login name: frost8200
Drawing Name: C:\pwworking\hi\frost8200\d0694048\H362376-RW-100-S0-6001.dwg



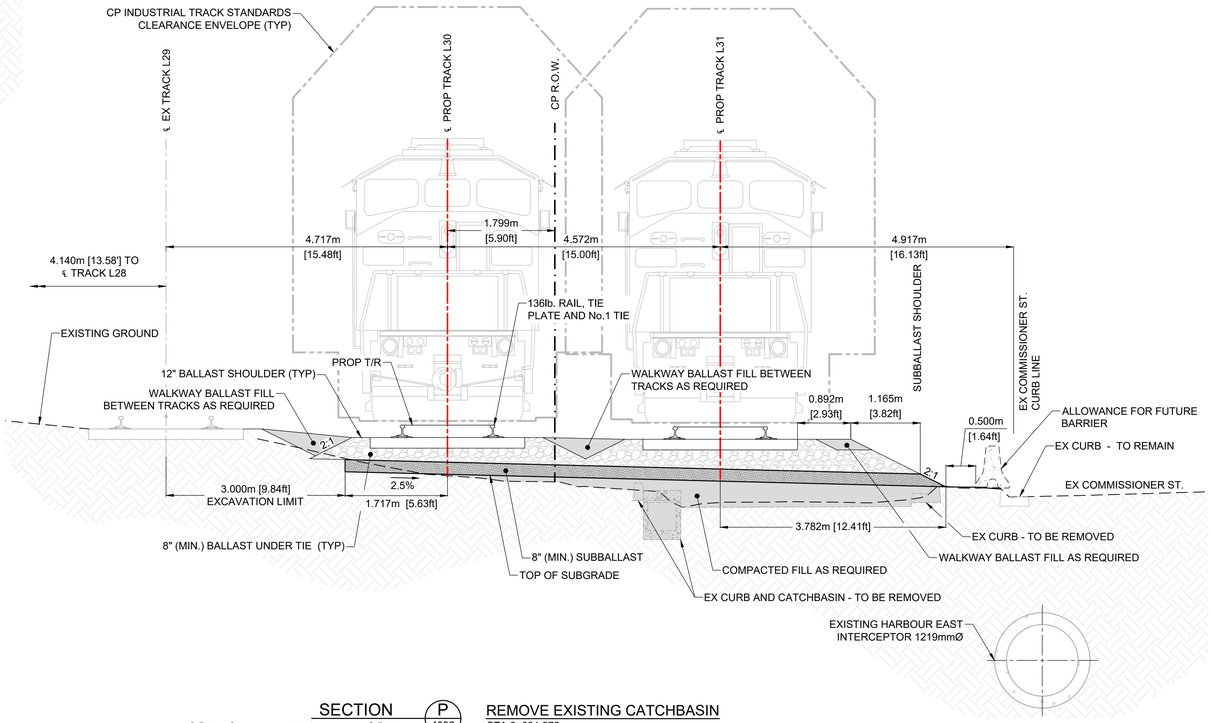
SECTION N 4006

0.5 m 0 1:50 2.5 m

REMOVE EXISTING MEDIAN
STA 1+955.701

NOTE:

1. TOP 175mm OF BALLAST WALKWAY TO BE GRADE 3 WALKING BALLAST THROUGH PROJECT CORRIDOR



SECTION P 4006

0.5 m 0 1:50 2.5 m

REMOVE EXISTING CATCHBASIN
STA 2+031.878

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **11-09-20**	DRAWN BY: **A.S./D.B.F.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:50**

PROFESSIONAL SEALS

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B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP

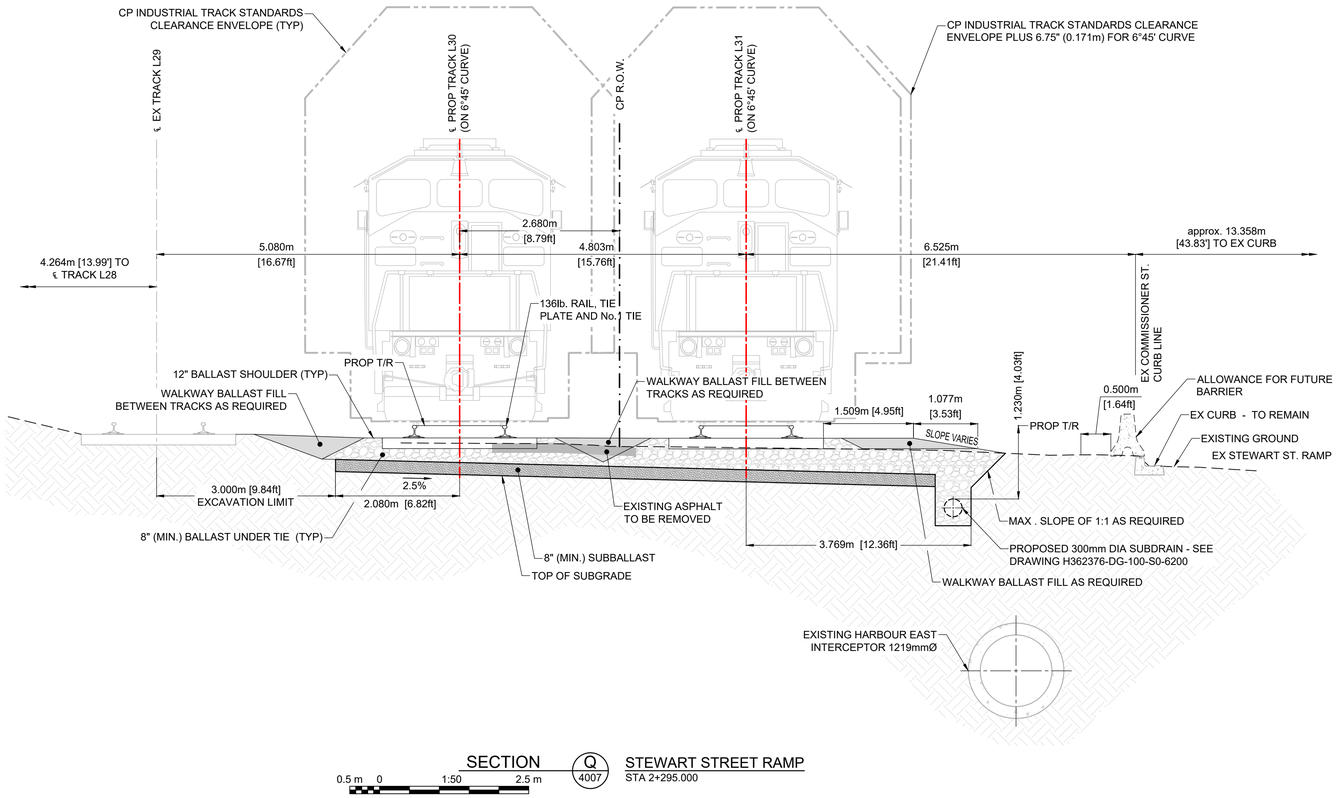
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - SECTIONS
SHEET 8 - STA 1+955.701 & 2+031.878

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-6008 Rev. C

Aug 03 , 2021 , 2:24pm Login name: fras78200
Drawing Name: C:\pwworking\h\fras78200\d0694048\H362376-RW-100-S0-6001.dwg



SECTION Q 4007 STEWART STREET RAMP
STA 2+295.000

0.5 m 0 1:50 2.5 m

NOT FOR CONSTRUCTION

NOTE:

1. TOP 175mm OF BALLAST WALKWAY TO BE GRADE 3 WALKING BALLAST THROUGH PROJECT CORRIDOR

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: **11-09-20**	**M.M./D.B.F.** DATE: **11-09-20**
CHECKED BY: **V.C.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:50**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-OF ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
C	03-08-21	ISSUED FOR 90% DESIGN	F.D.
B	31-05-21	REISSUED FOR 30% DESIGN	F.D.
A	11-09-20	ISSUED FOR 30% DESIGN	L.C.

CP

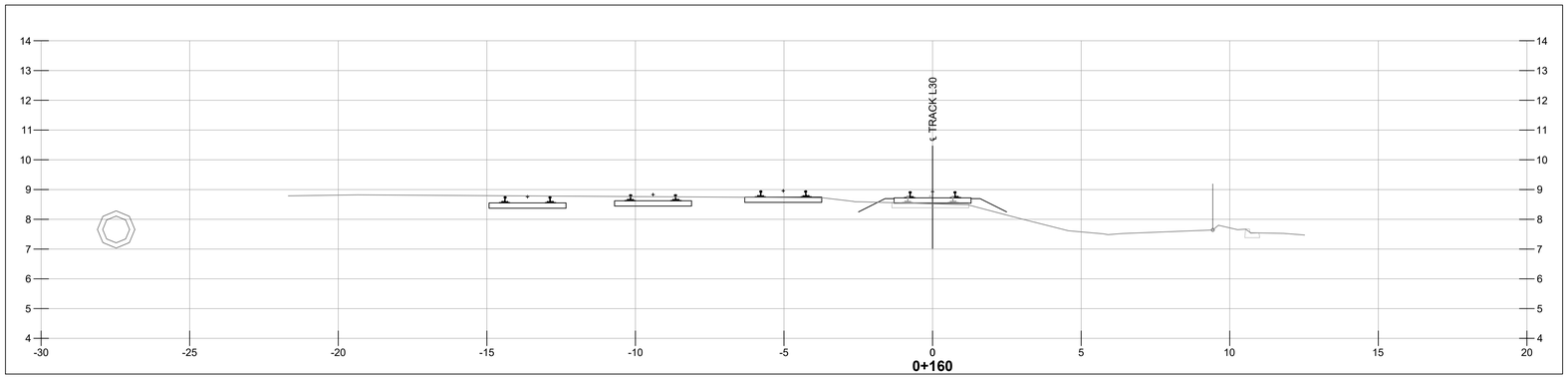
ENGINEERING PROJECTS - WEST

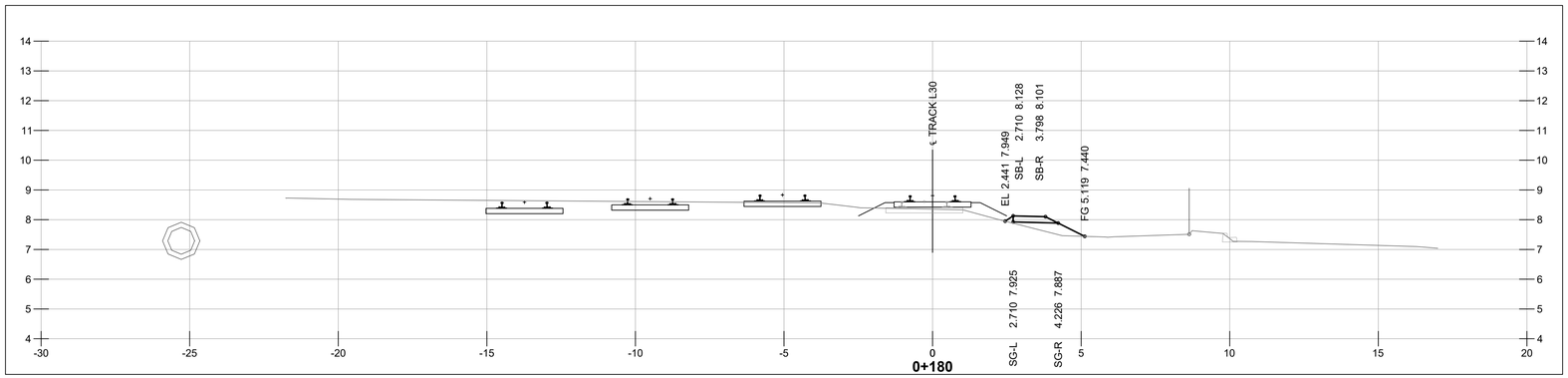
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - SECTIONS
SHEET 9 - STA 2+295.000

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-6009	Rev. C

Aug 03 , 2021 , 2:25pm Login name: fras78200
Drawing Name: C:\pwworking\hi\fras78200\d0694048\H362376-RW-100-S0-6001.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: **03-08-21**	**P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

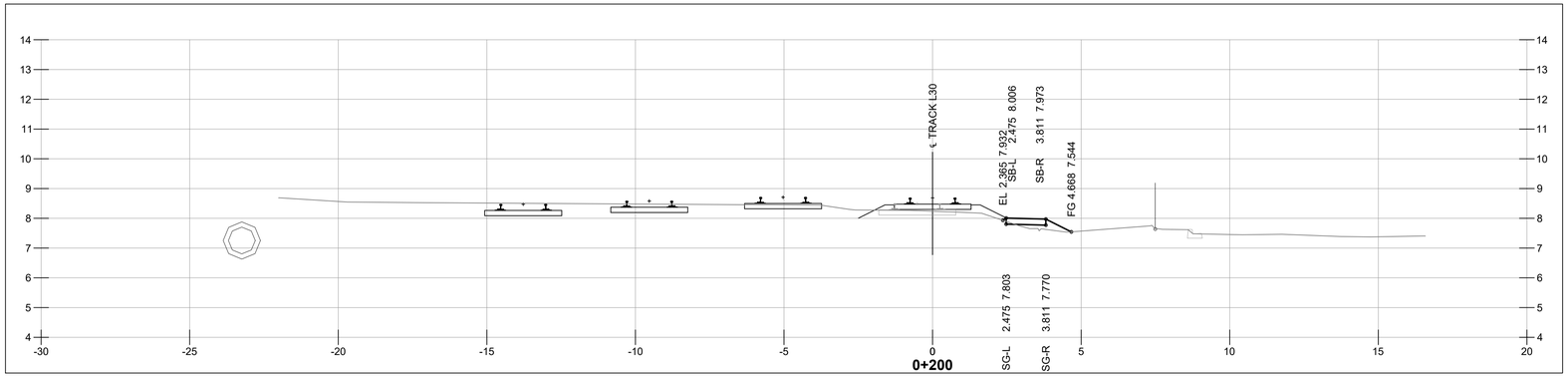
ENGINEERING PROJECTS - WEST

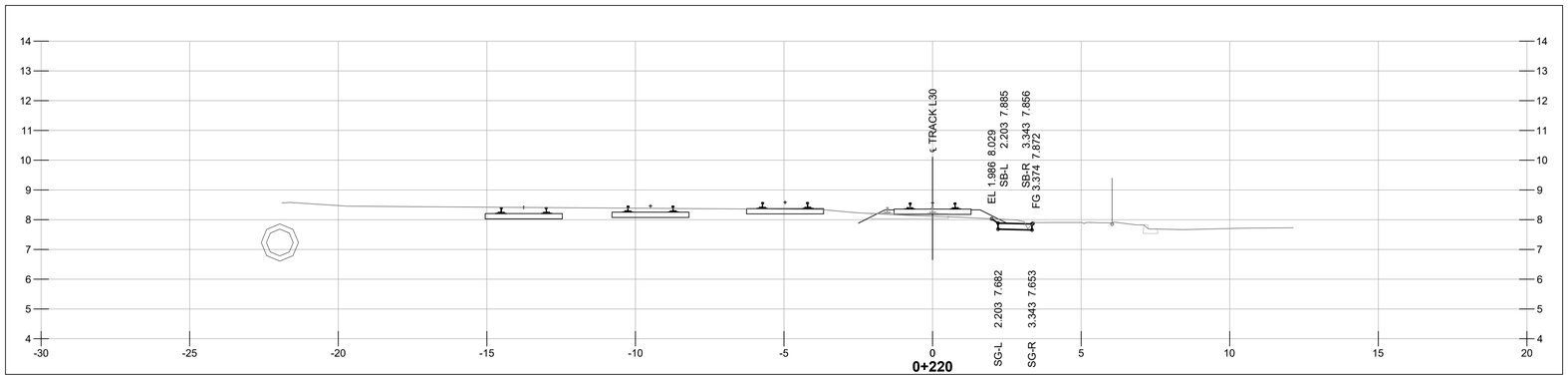
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+160 & STA 0+180

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7000 Rev. A

Aug 03 , 2021 , 9:08am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

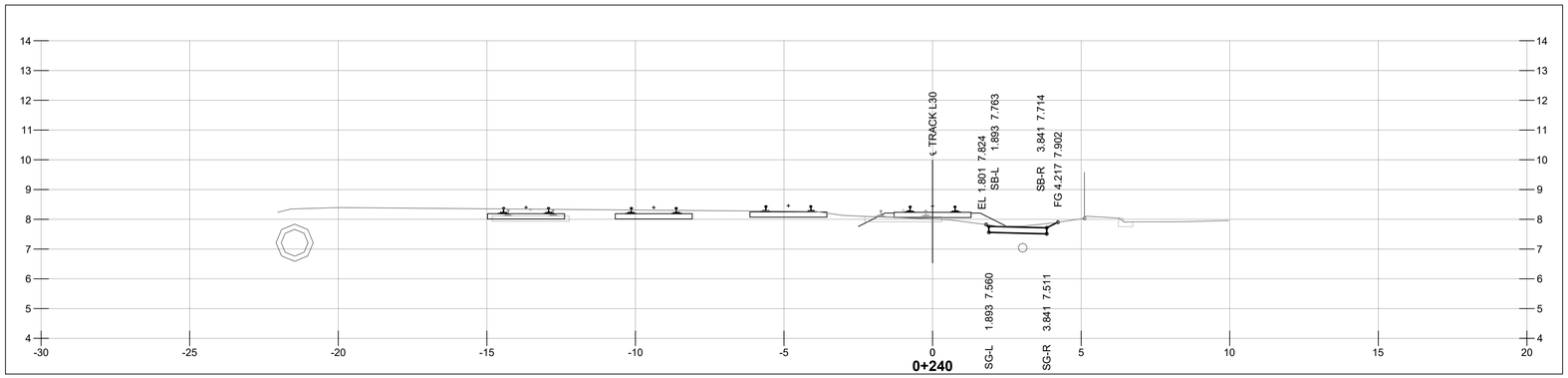
ENGINEERING PROJECTS - WEST

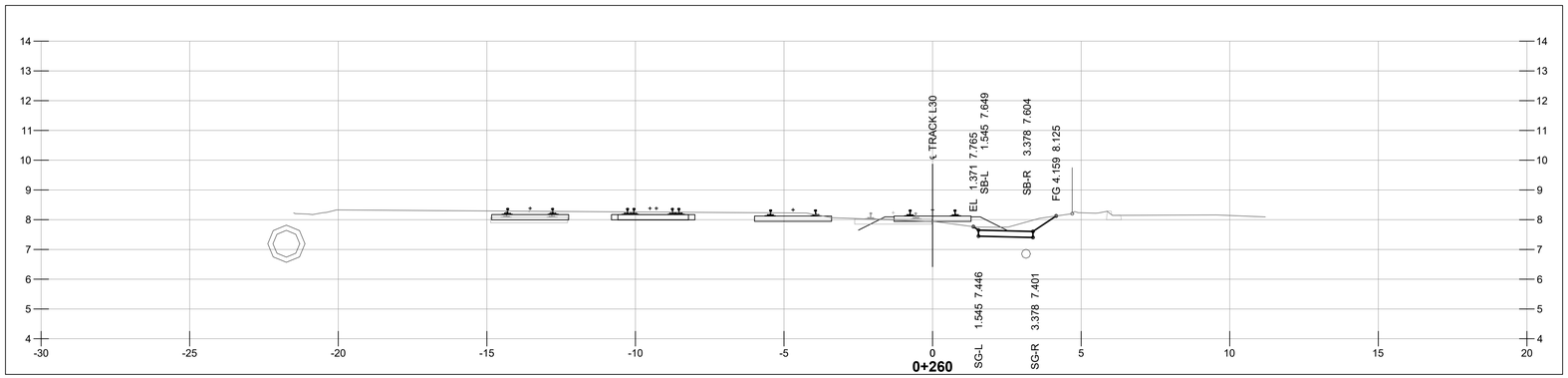
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+200 & STA 0+220

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7001 Rev. A

Aug 03 , 2021 , 9:08am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D.	**P.S.**
DATE: **03-08-21**	DATE: **03-08-21**
CHECKED BY:	PROJECT MANAGER:
V.C.	**I.M.**
DATE: **03-08-21**	DATE: **03-08-21**
HATCH PROJECT No:	DWG SCALE(FULL SIZE):
H362376	**1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

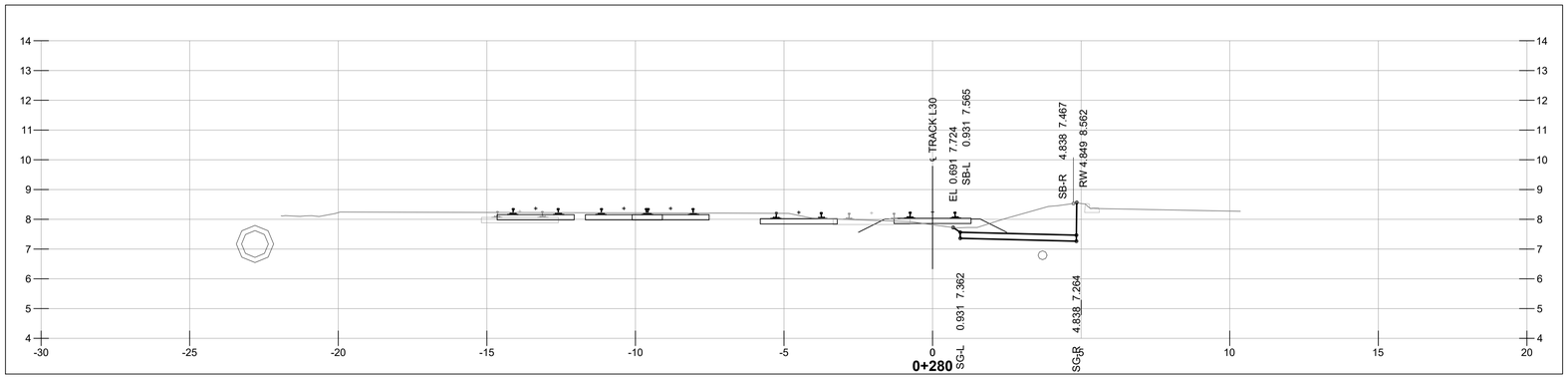
ENGINEERING PROJECTS - WEST

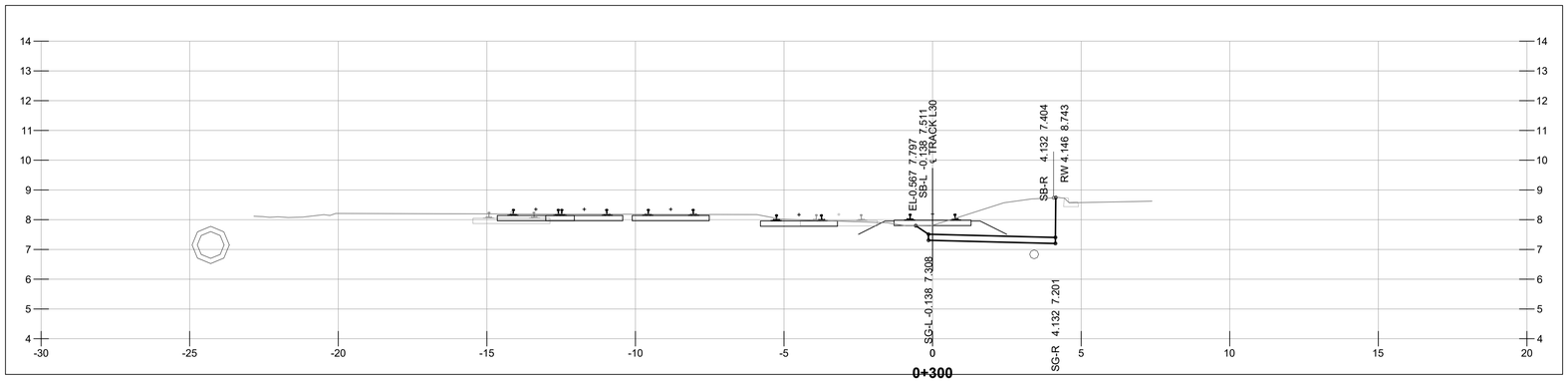
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+240 & STA 0+260

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-7002	Rev. A

Aug 03 , 2021 , 9:09am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

CP

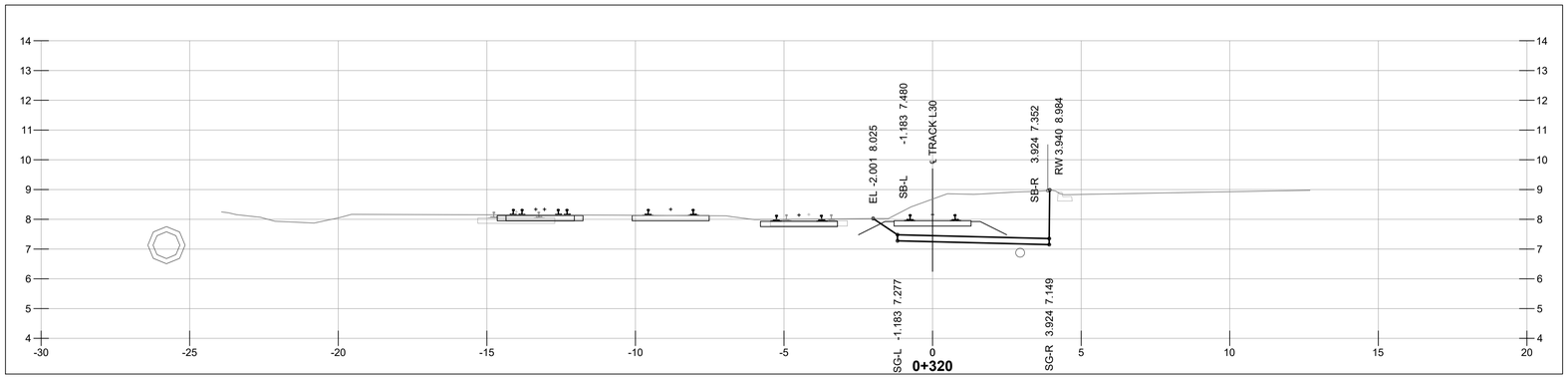
ENGINEERING PROJECTS - WEST

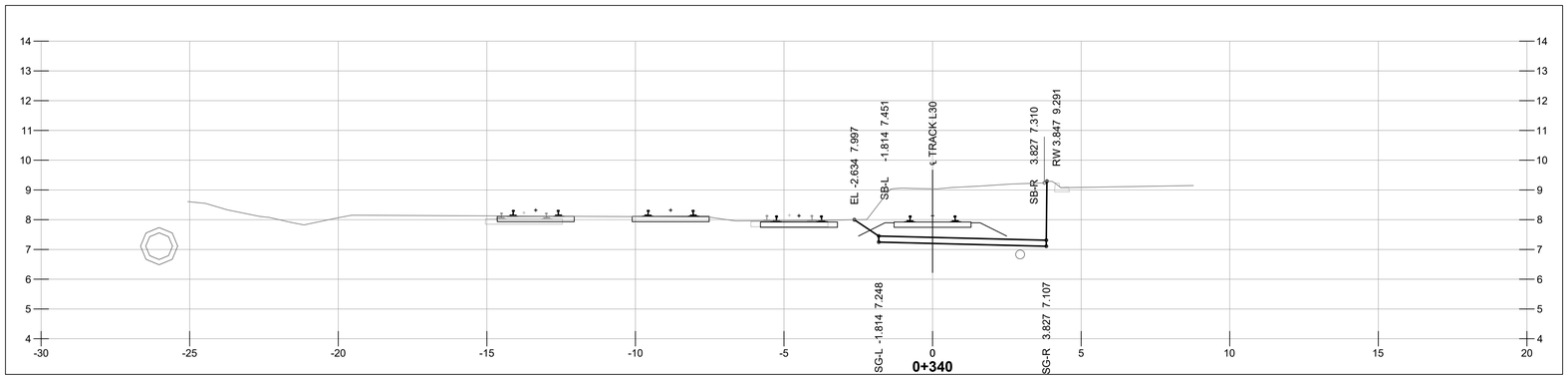
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+280 & STA 0+300

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7004 Rev. A

Aug 03 , 2021 , 9:09am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

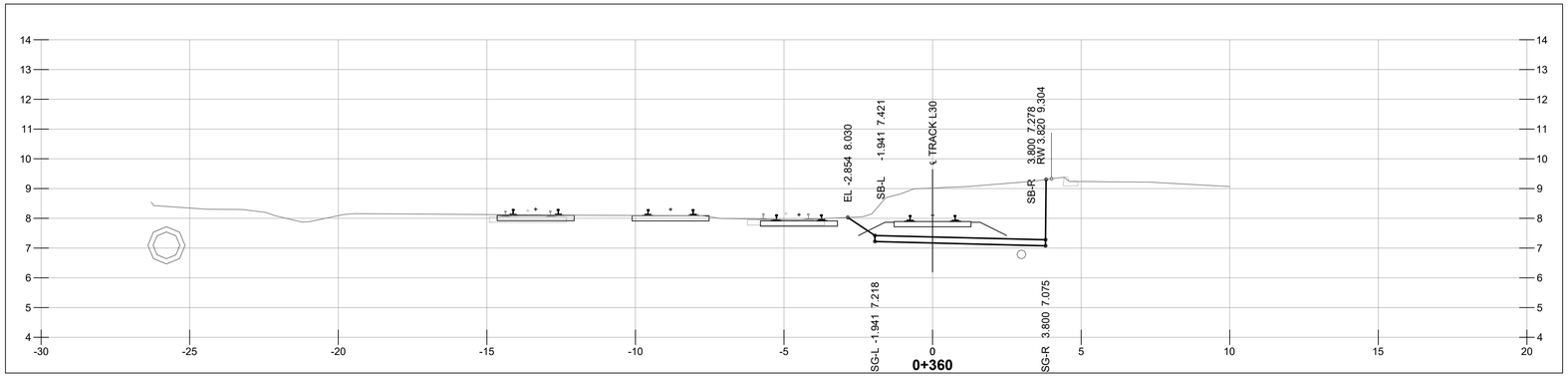
ENGINEERING PROJECTS - WEST

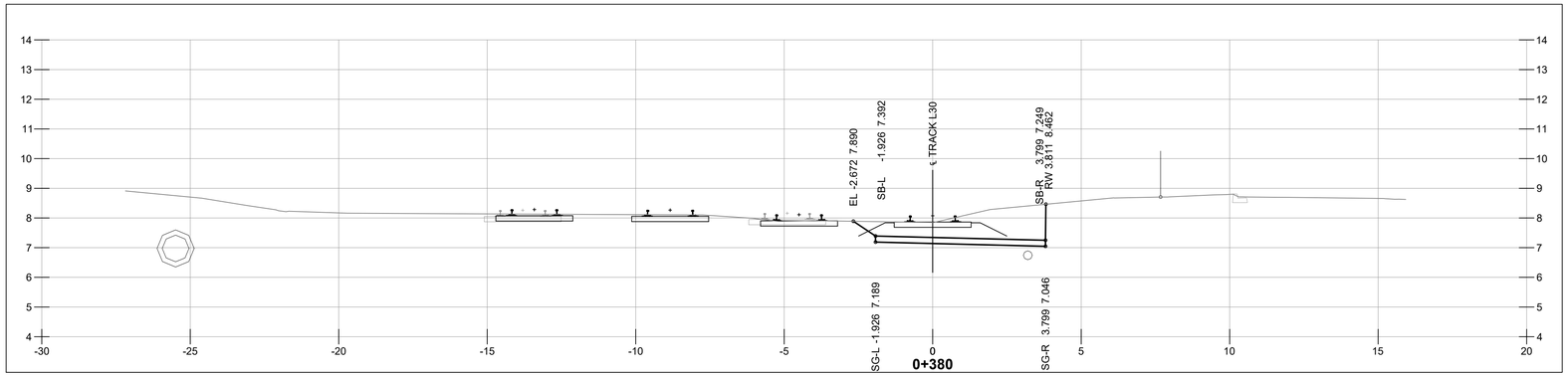
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+320 & STA 0+340

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7004 Rev. A

Aug 03 , 2021 , 9:09am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: **03-08-21**	**P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

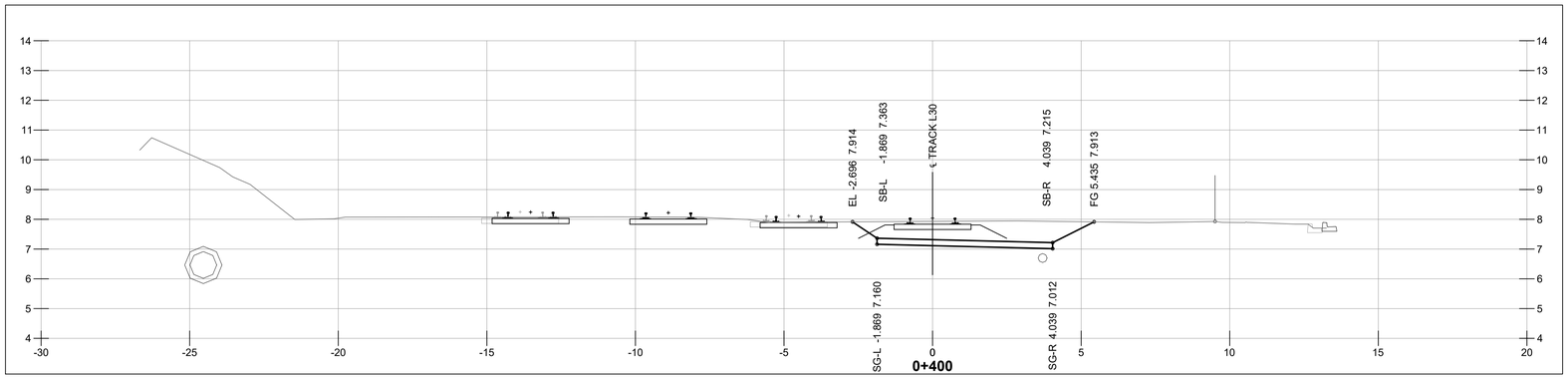
ENGINEERING PROJECTS - WEST

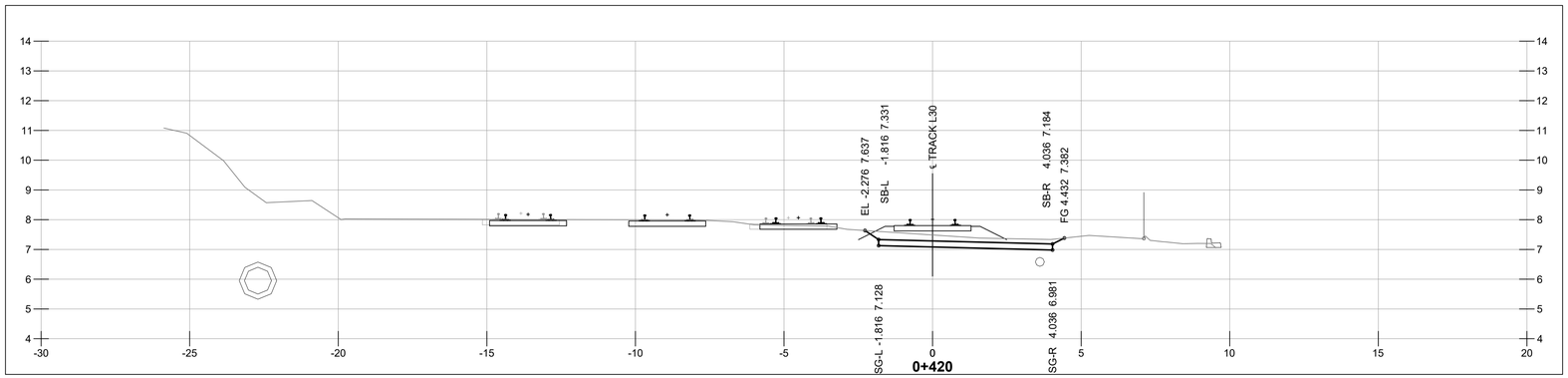
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+360 & STA 0+380

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-7005	Rev. A

Aug 03 , 2021 , 9:09am Login name: shob11128
Drawing Name: C:\pwworking\h\\posha.shoberi@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

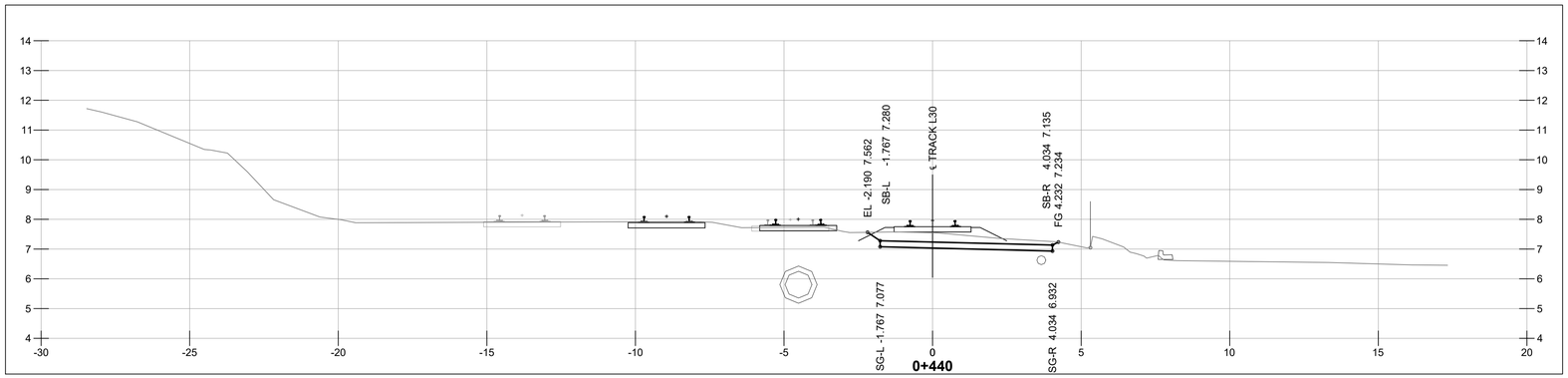
ENGINEERING PROJECTS - WEST

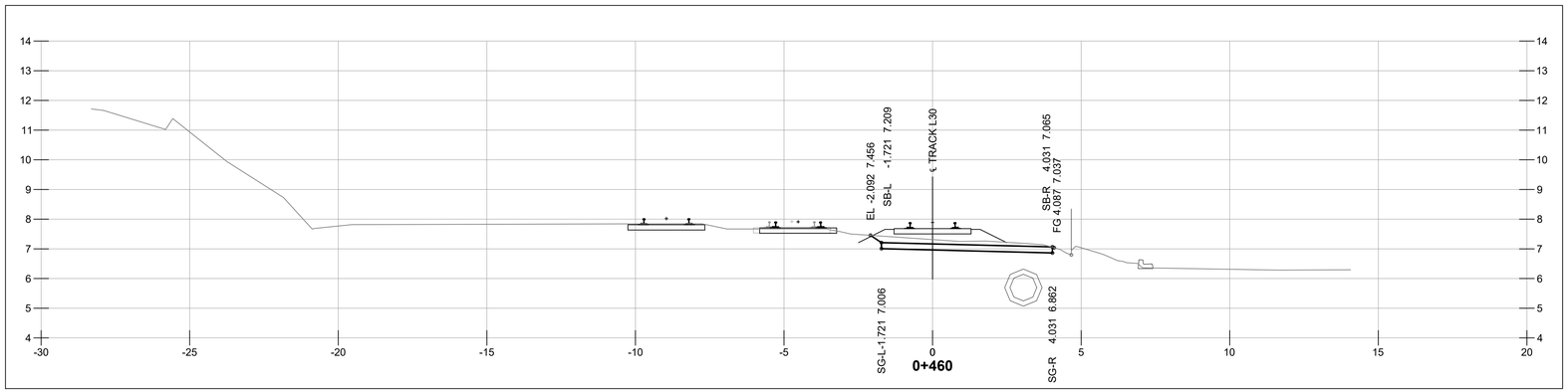
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+400 & STA 0+420

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7006 / Rev. A

Aug 03 , 2021 , 9:10am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

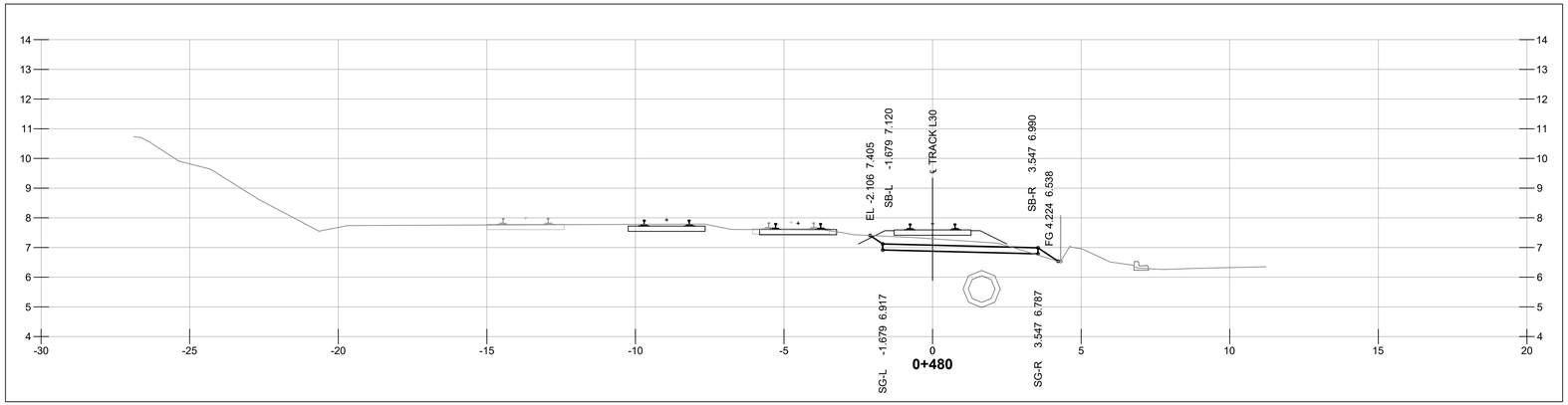
ENGINEERING PROJECTS - WEST

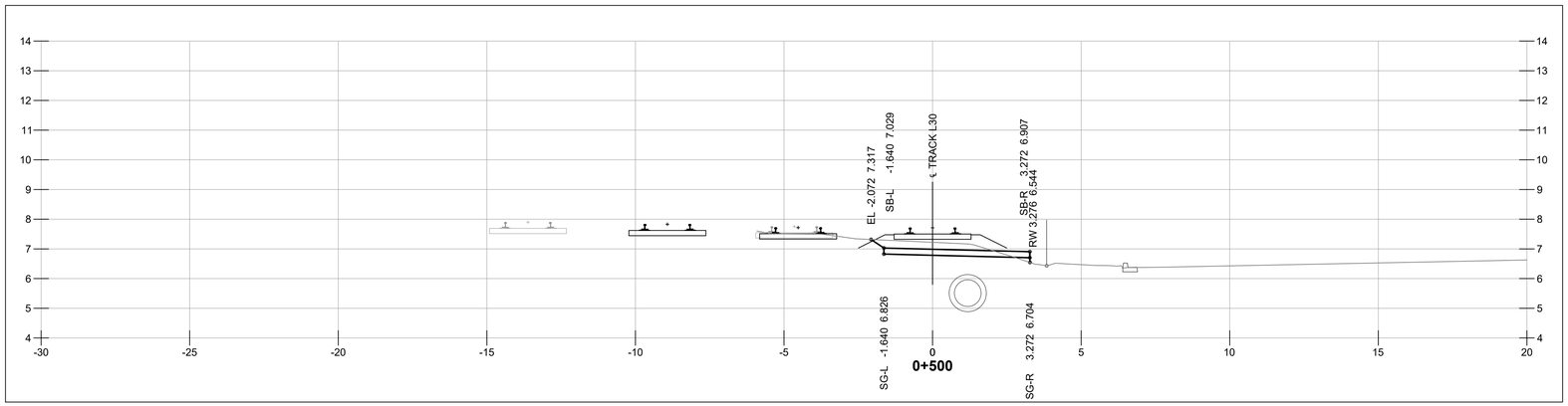
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+440 & STA 0+460

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7007 Rev. A

Aug 03 , 2021 , 9:10am Login name: shob11128
Drawing Name: C:\pwworking\h\\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

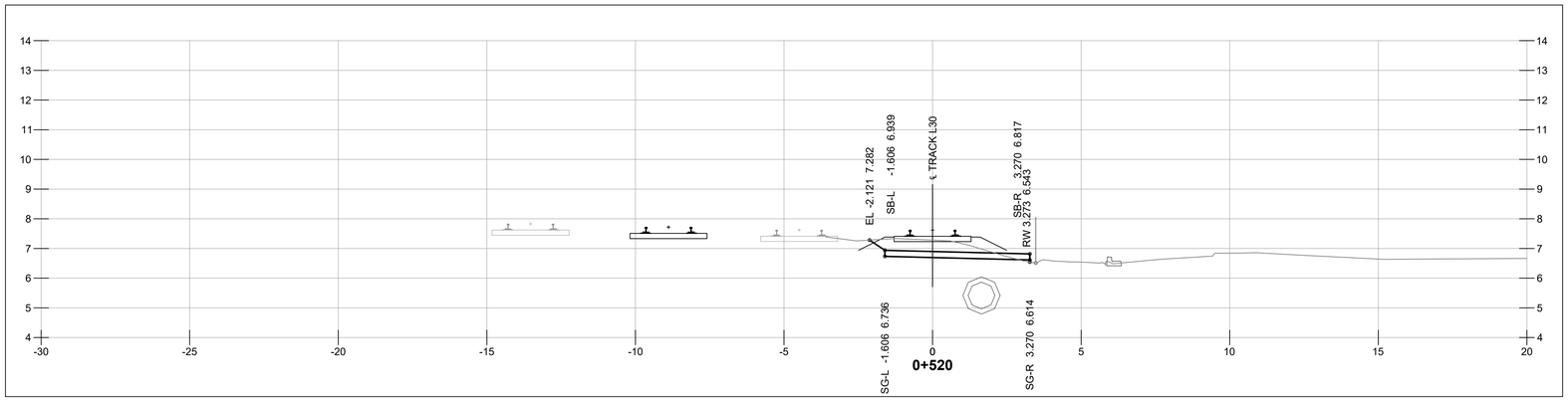
ENGINEERING PROJECTS - WEST

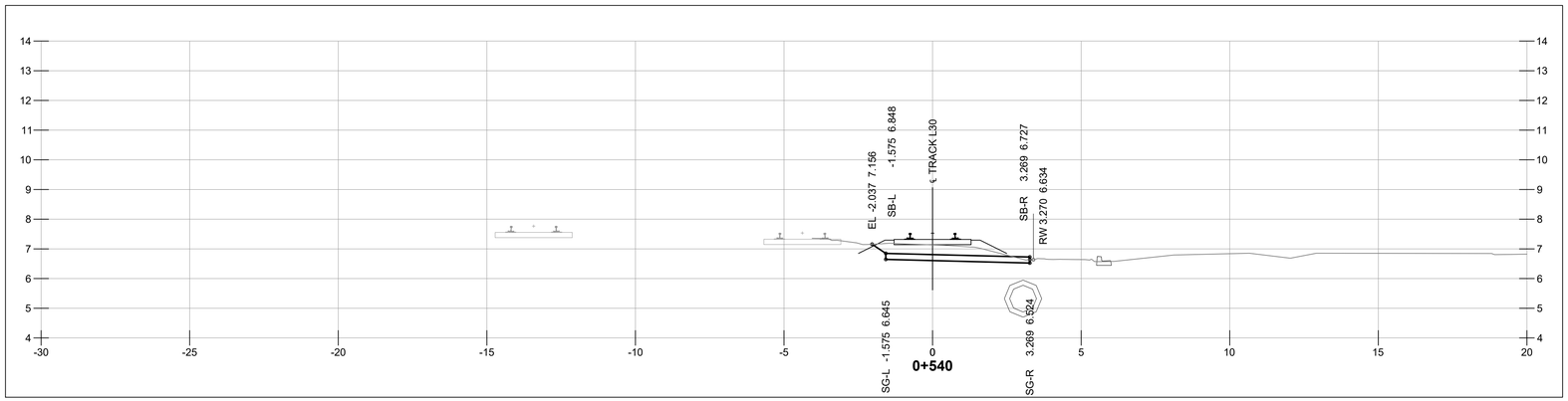
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+480 & STA 0+500

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7008 / Rev. A

Aug 03 , 2021 , 9:10am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: **03-08-21**	**P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

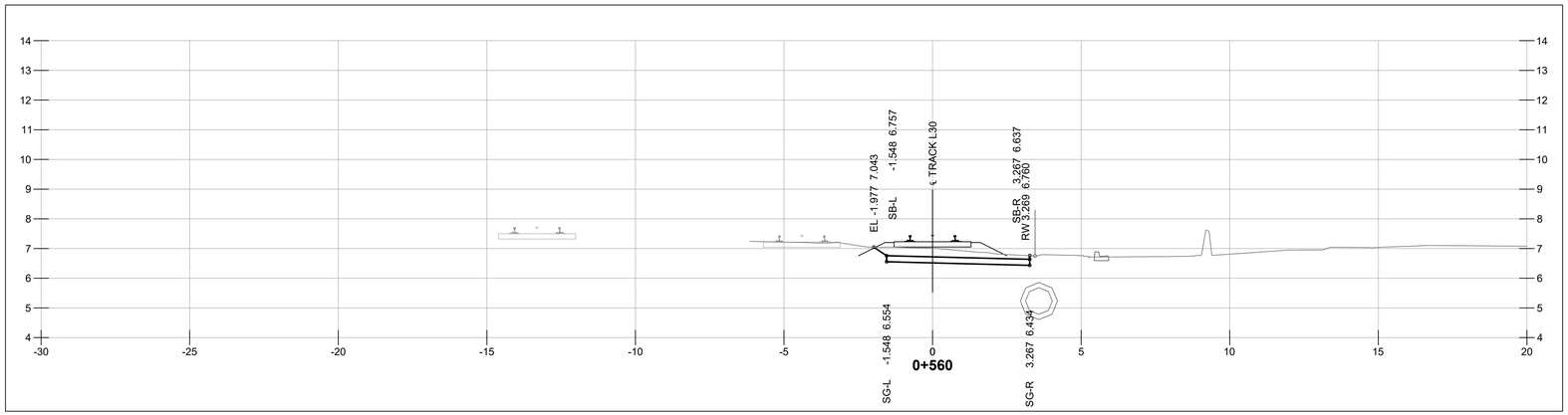
ENGINEERING PROJECTS - WEST

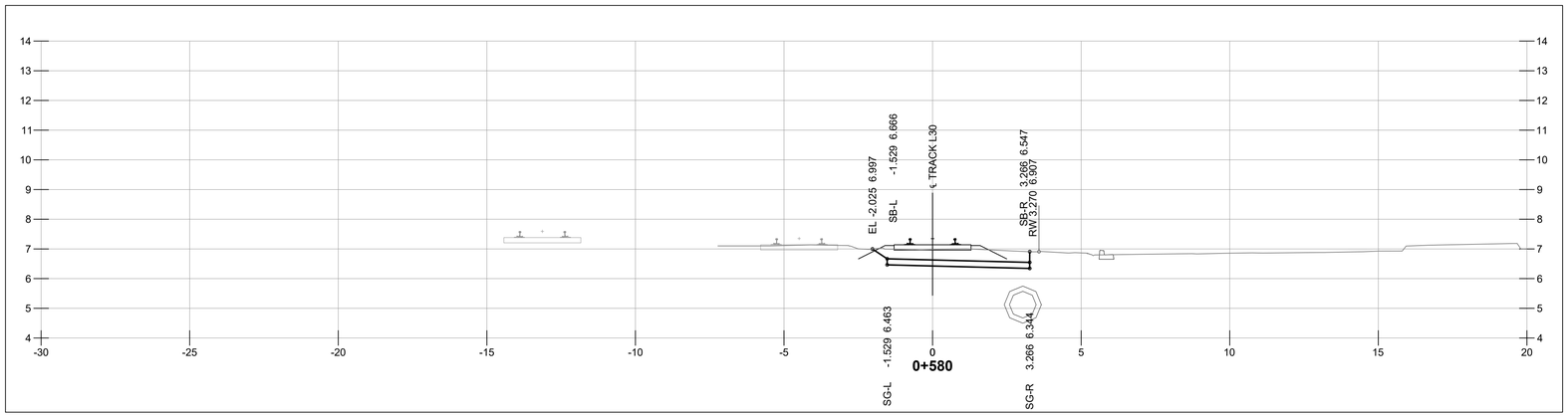
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+520 & STA 0+540

DWG. BY: CHK BY:	OFFICE FILE:	
	SCALE:	
MANAGER - DESIGN:	DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7009	Rev. A

Aug 03 , 2021 , 9:10am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: **03-08-21**	**P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

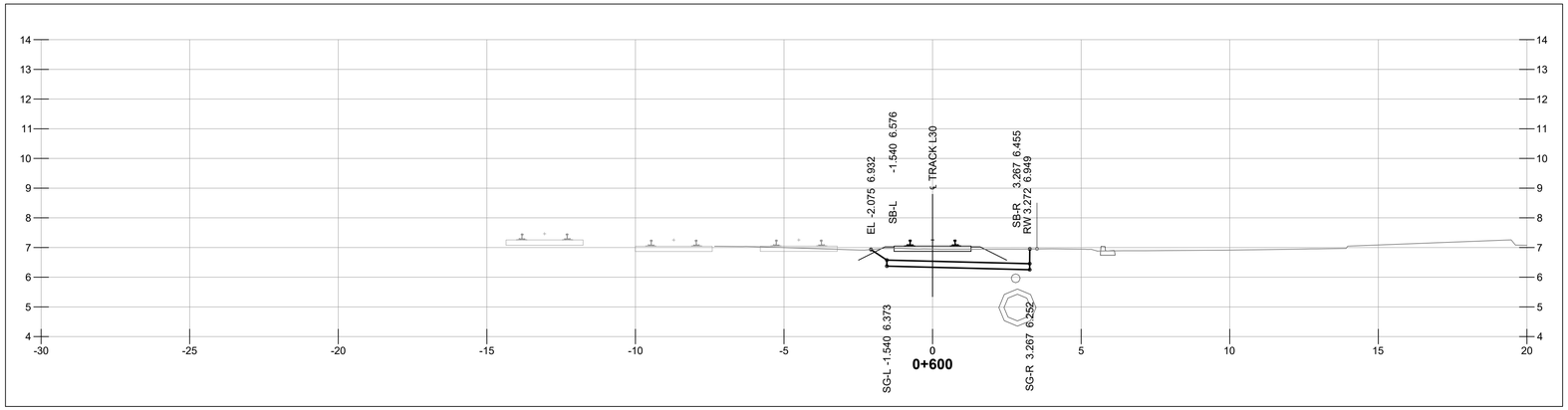
ENGINEERING PROJECTS - WEST

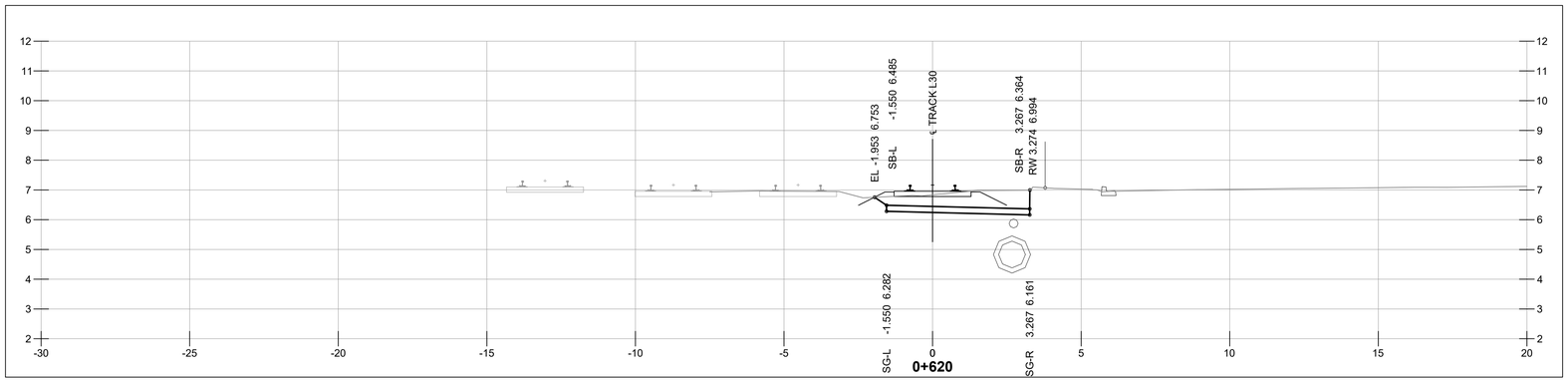
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+560 & STA 0+580

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-7010	Rev. A

Aug 03 , 2021 , 9:11am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: **03-08-21**	**P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

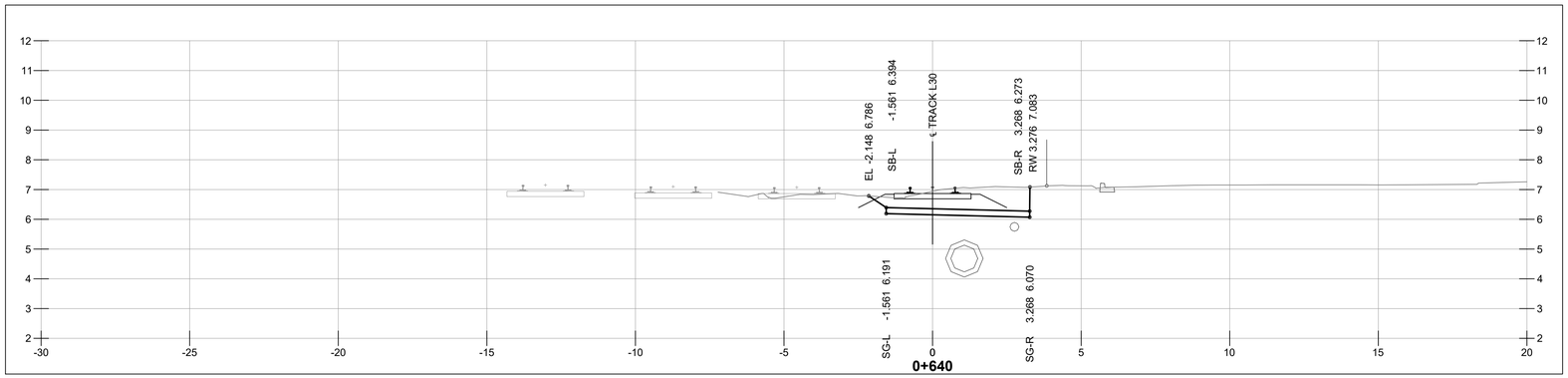
ENGINEERING PROJECTS - WEST

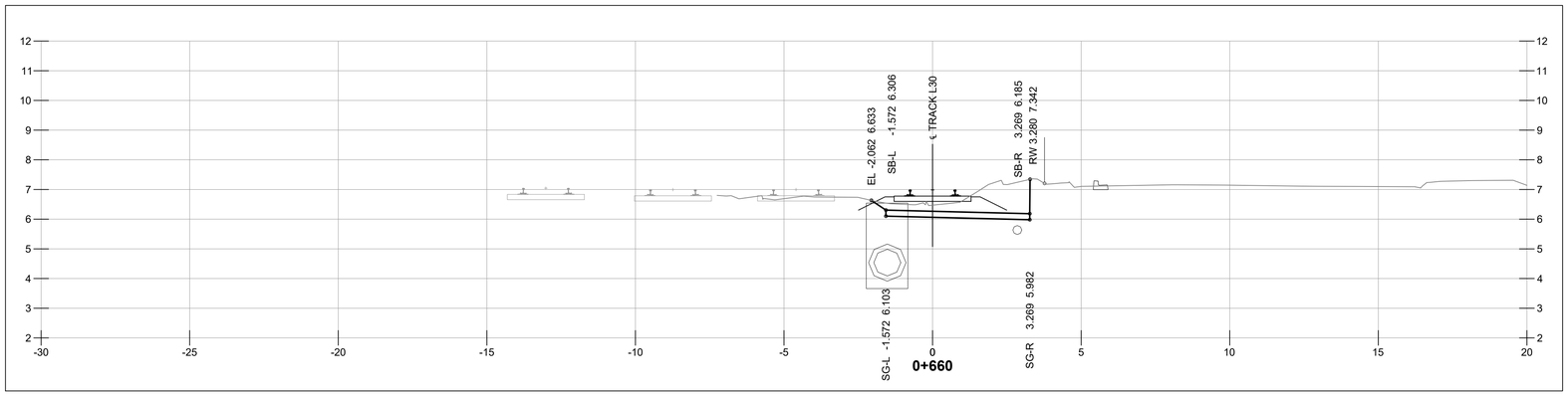
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+600 & STA 0+620

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-7011	Rev. A

Aug 03 , 2021 , 9:11am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

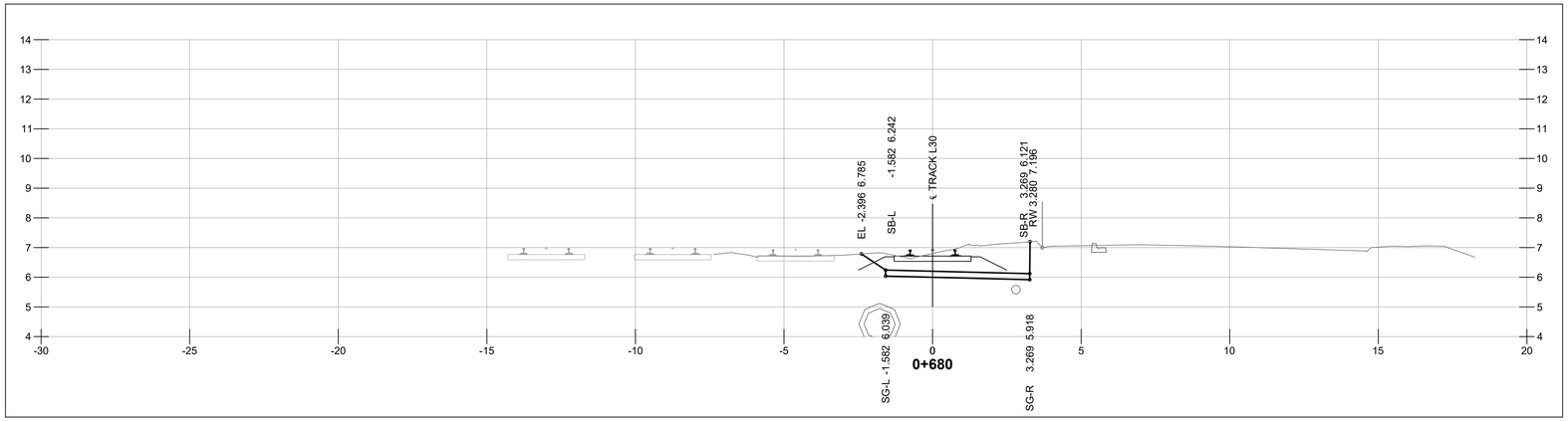
ENGINEERING PROJECTS - WEST

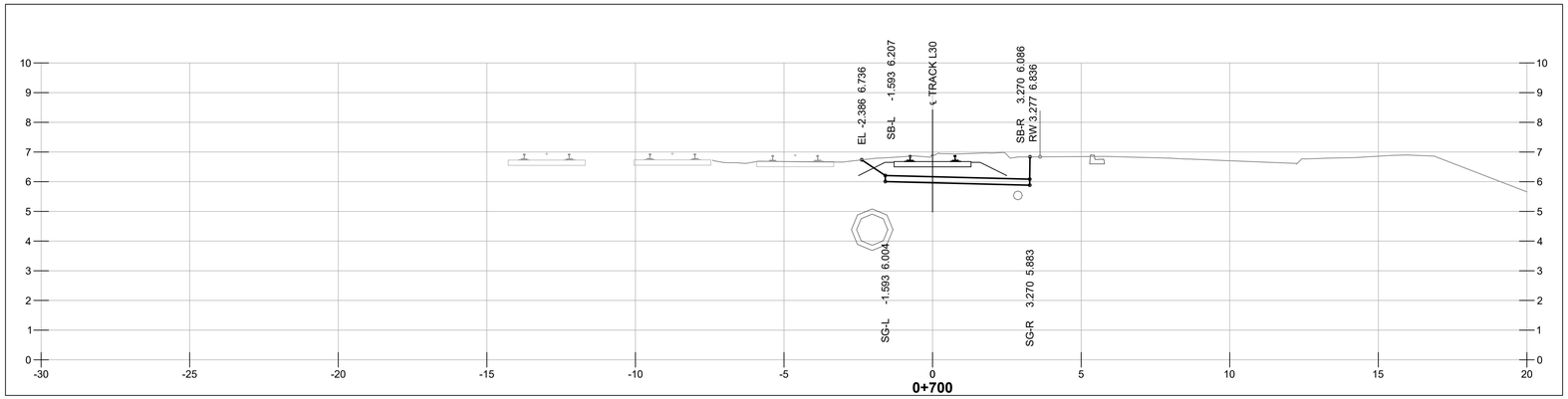
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+640 & STA 0+660

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7012 / Rev. A

Aug 03 , 2021 , 9:11am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES
UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

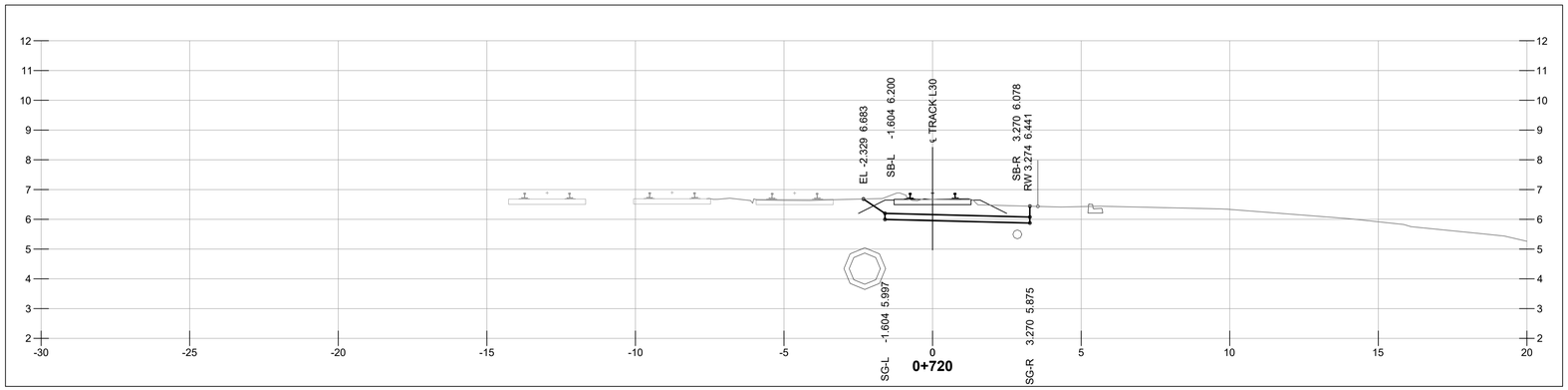
ENGINEERING PROJECTS - WEST

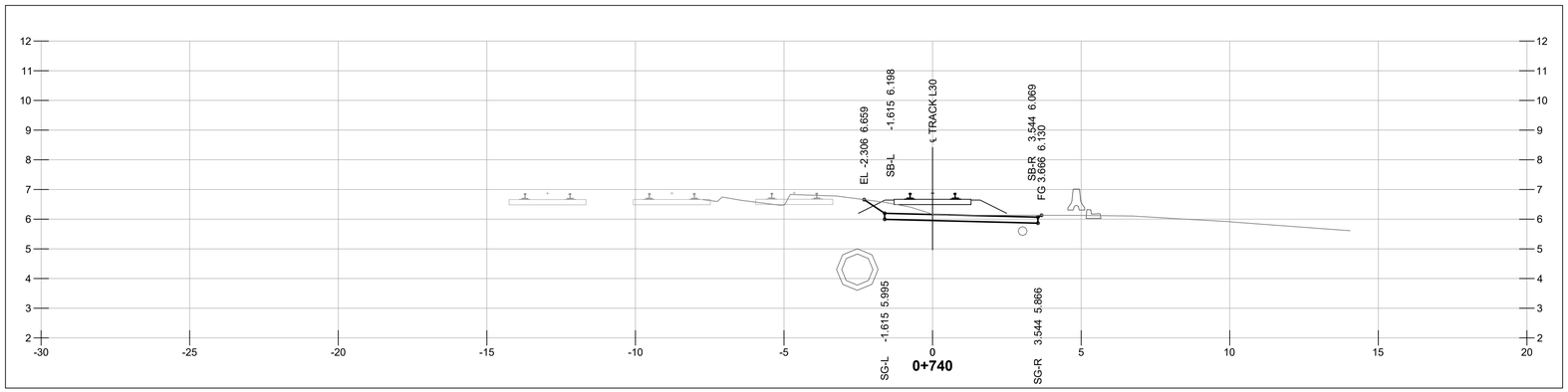
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+680 & STA 0+700

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7013 / Rev. A

Aug 03 , 2021 , 9:11am Login name: stobb11128
Drawing Name: C:\pwworking\hi\posha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

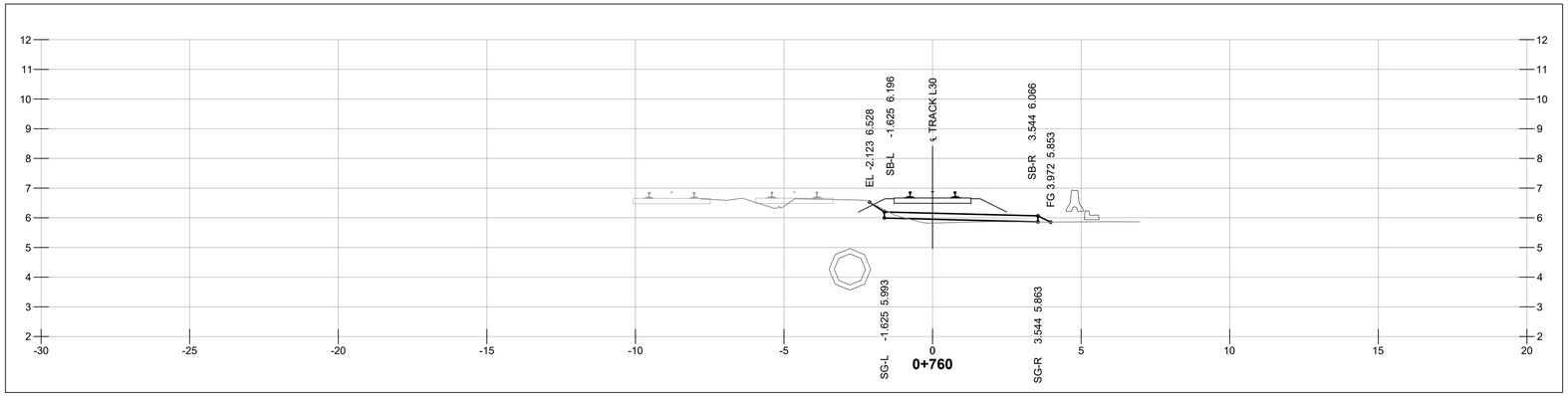
ENGINEERING PROJECTS - WEST

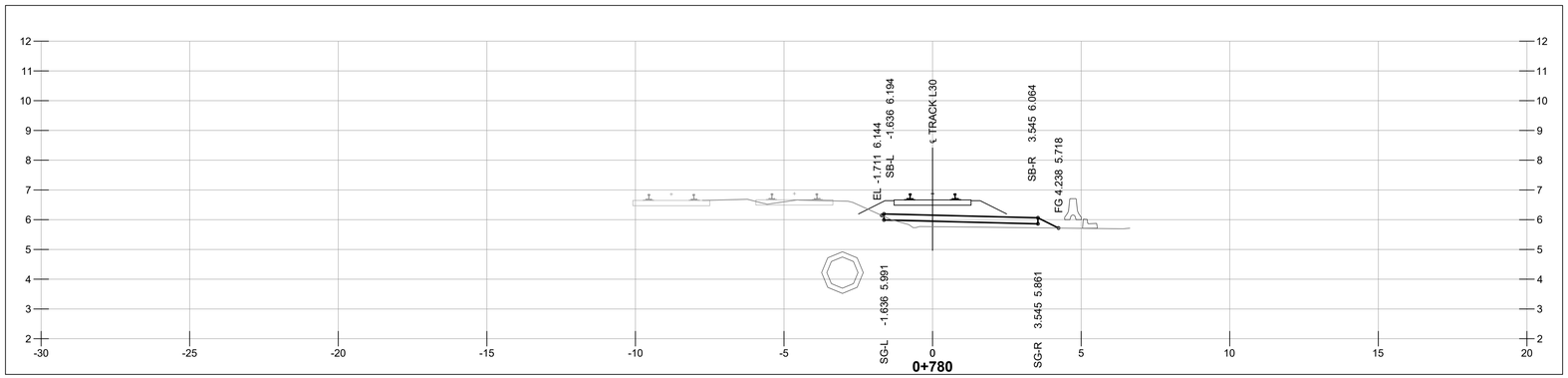
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+720 & STA 0+740

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7014 Rev. A

Aug 03 , 2021 , 9:12am Login name: shob11128
Drawing Name: C:\pwworking\h\\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D.	**P.S.**
DATE: **03-08-21**	DATE: **03-08-21**
CHECKED BY:	PROJECT MANAGER:
V.C.	**I.M.**
DATE: **03-08-21**	DATE: **03-08-21**
HATCH PROJECT No:	DWG SCALE(FULL SIZE):
H362376	**1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	**ISSUED FOR 90% DESIGN**	F.D.

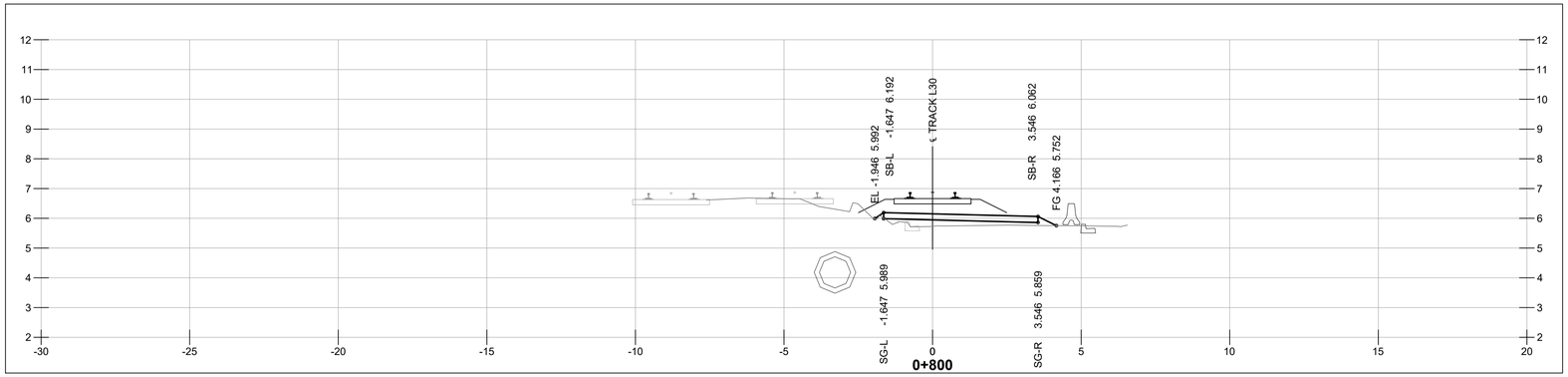
ENGINEERING PROJECTS - WEST

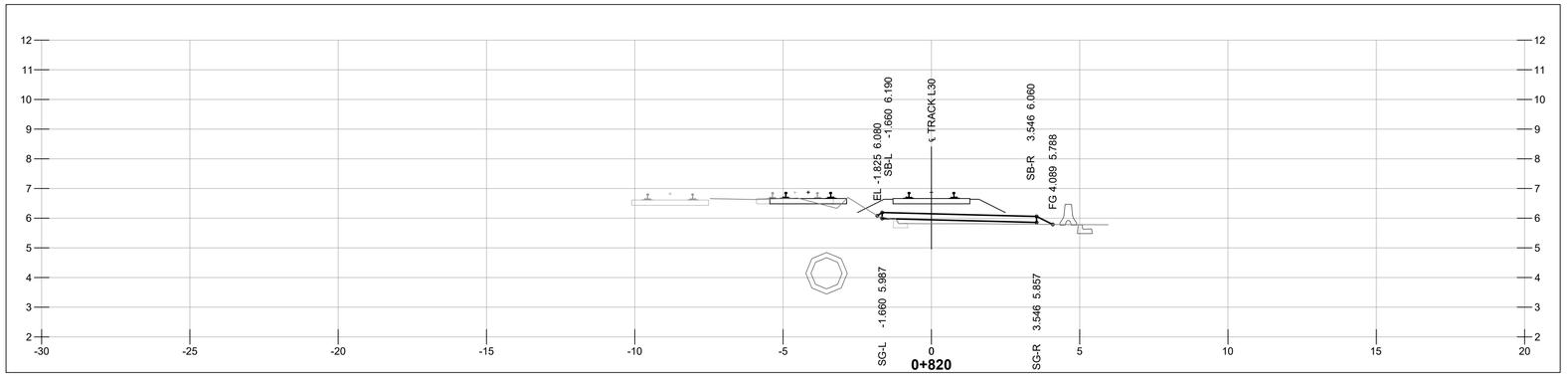
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+760 & STA 0+780

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-7015	Rev. A

Aug 03 , 2021 , 9:12am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: **03-08-21**	**P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

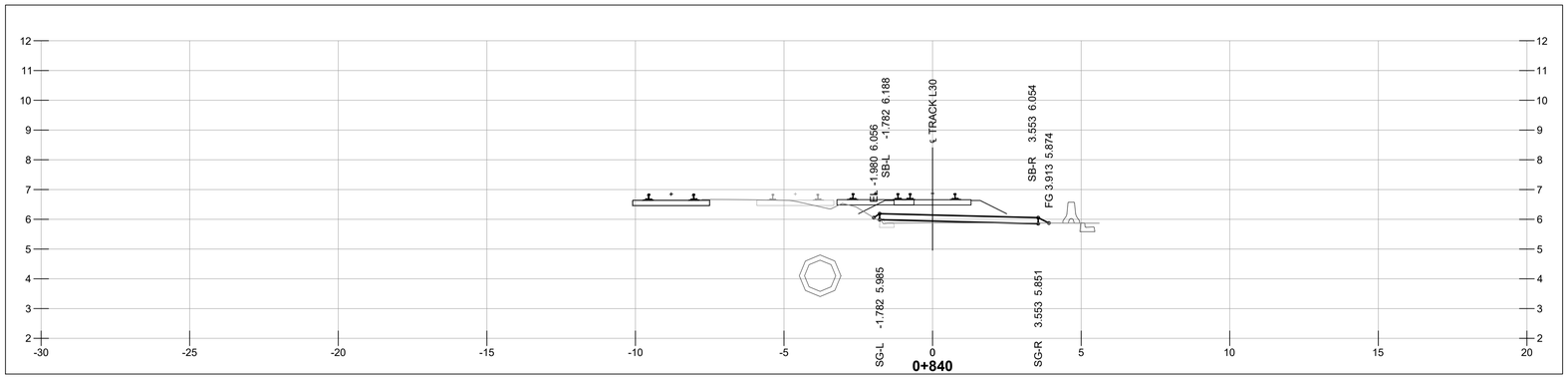
ENGINEERING PROJECTS - WEST

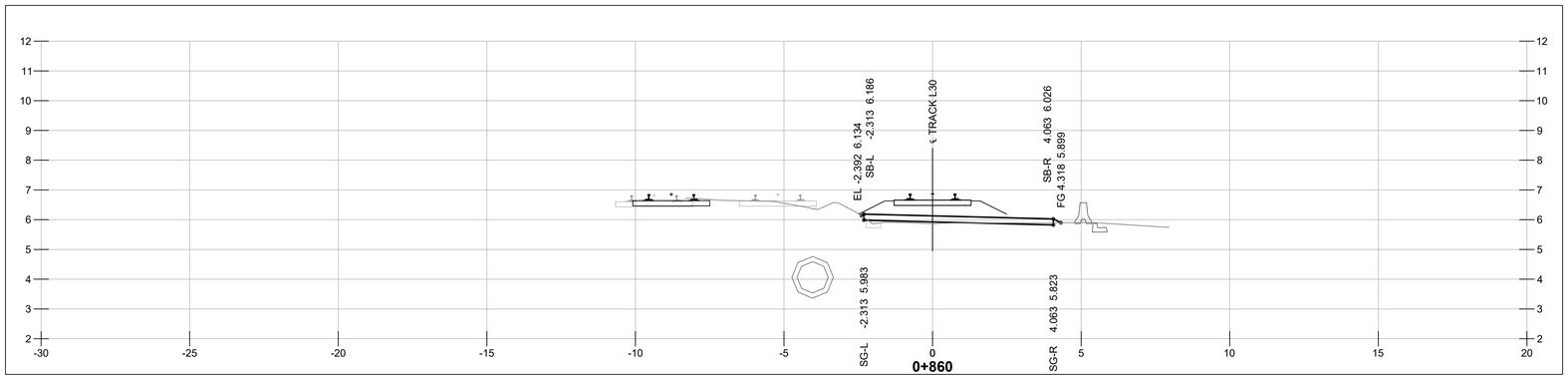
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+800 & STA 0+820

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-7016	Rev. A

Aug 03 , 2021 , 9:12am Login name: shobi11128
Drawing Name: C:\pwworking\hi\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

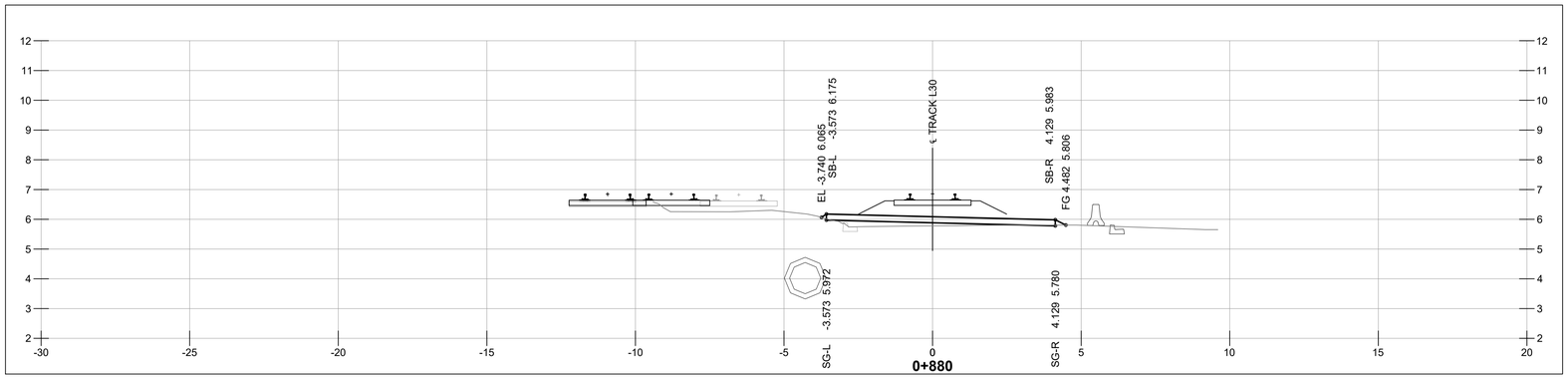
ENGINEERING PROJECTS - WEST

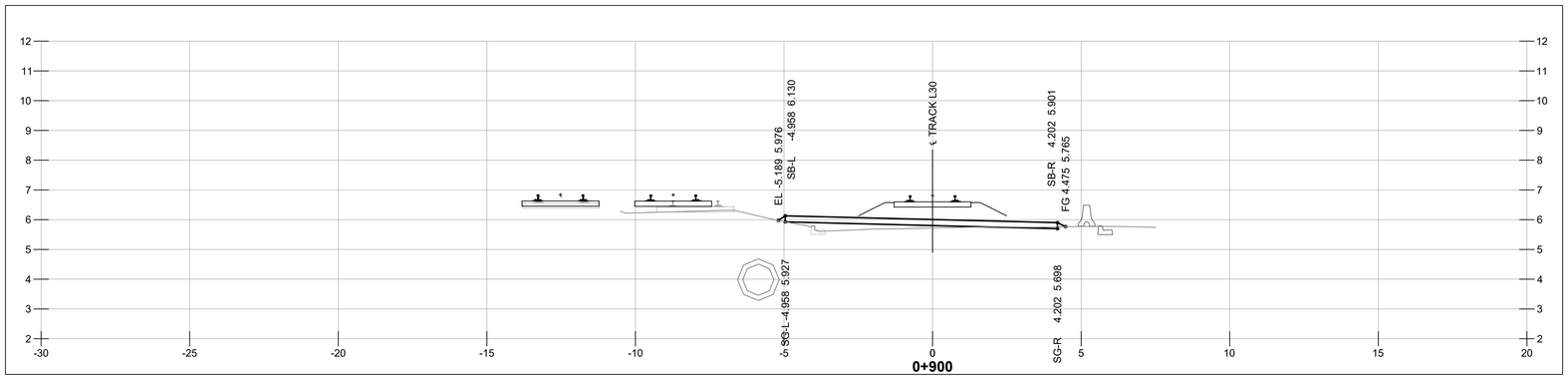
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+840 & STA 0+860

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7017 Rev. A

Aug 03 , 2021 , 9:13am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

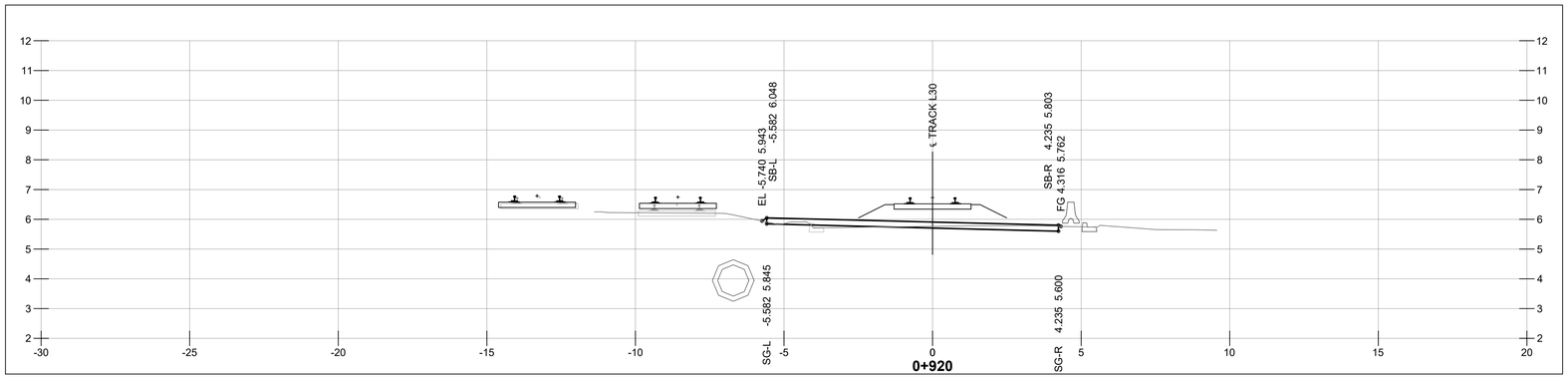
ENGINEERING PROJECTS - WEST

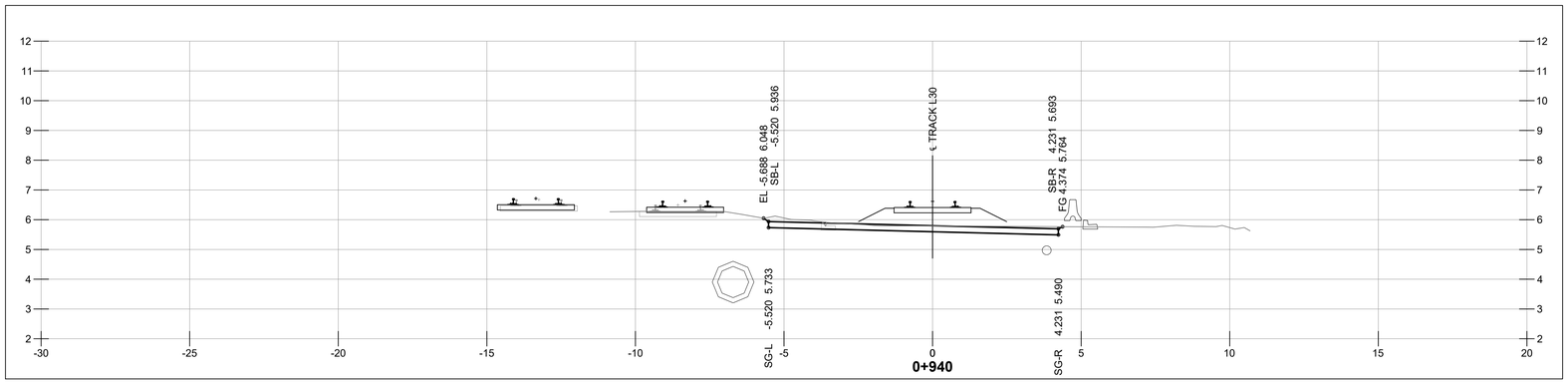
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+880 & STA 0+900

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7018 Rev. A

Aug 03 , 2021 , 9:13am Login name: shob11128
Drawing Name: C:\pwworking\h\\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

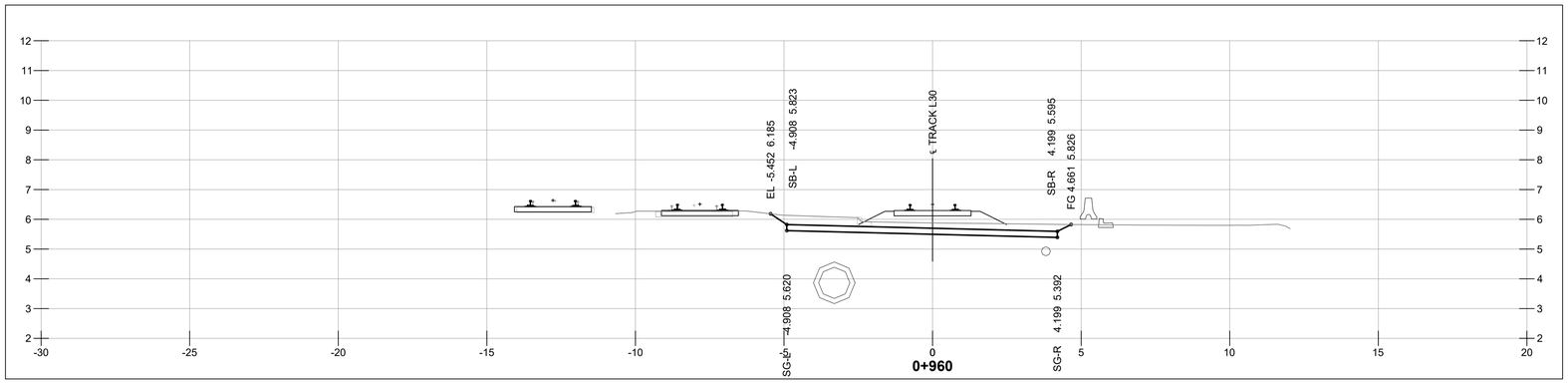
ENGINEERING PROJECTS - WEST

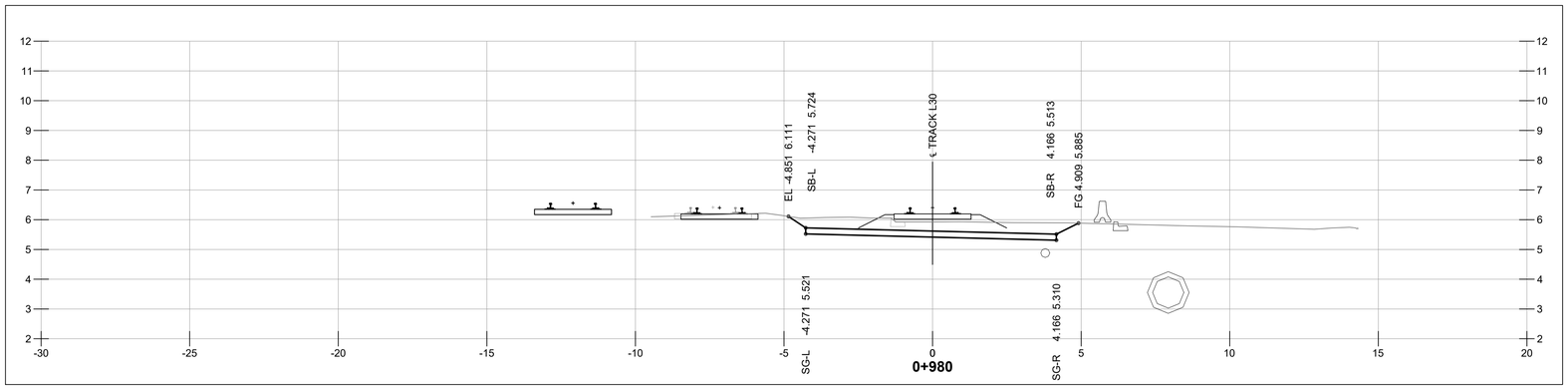
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+920 & STA 0+940

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7019 Rev. A

Aug 03 , 2021 , 9:13am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES
UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D.	**P.S.**
DATE: **03-08-21**	DATE: **03-08-21**
CHECKED BY:	PROJECT MANAGER:
V.C.	**I.M.**
DATE: **03-08-21**	DATE: **03-08-21**
HATCH PROJECT No:	DWG SCALE(FULL SIZE):
H362376	**1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

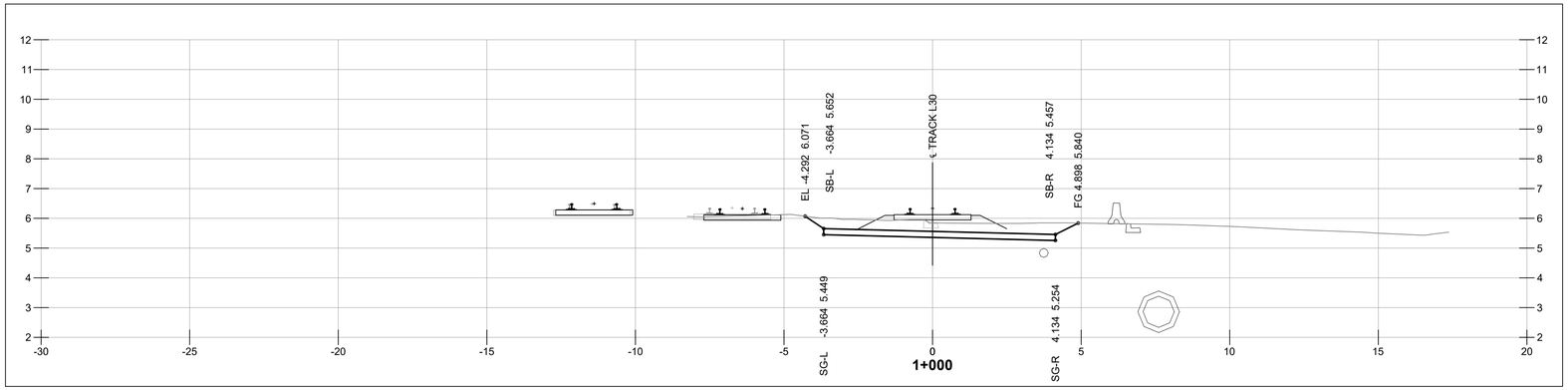
ENGINEERING PROJECTS - WEST

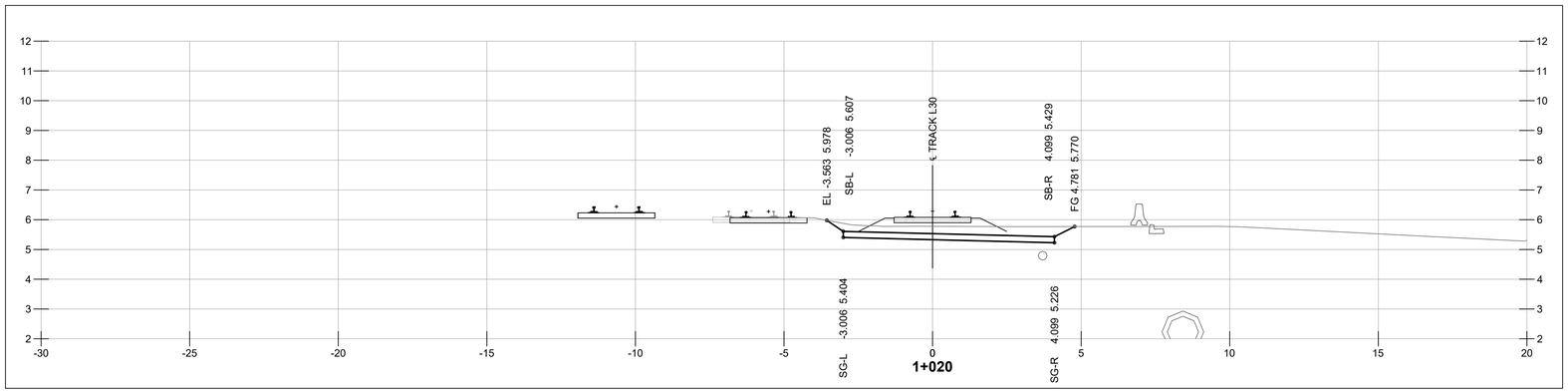
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 0+960 & STA 0+980

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-7020	Rev. A

Aug 03 , 2021 , 9:13am Login name: shob11128
Drawing Name: C:\pwworking\h\\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: **03-08-21**	**P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

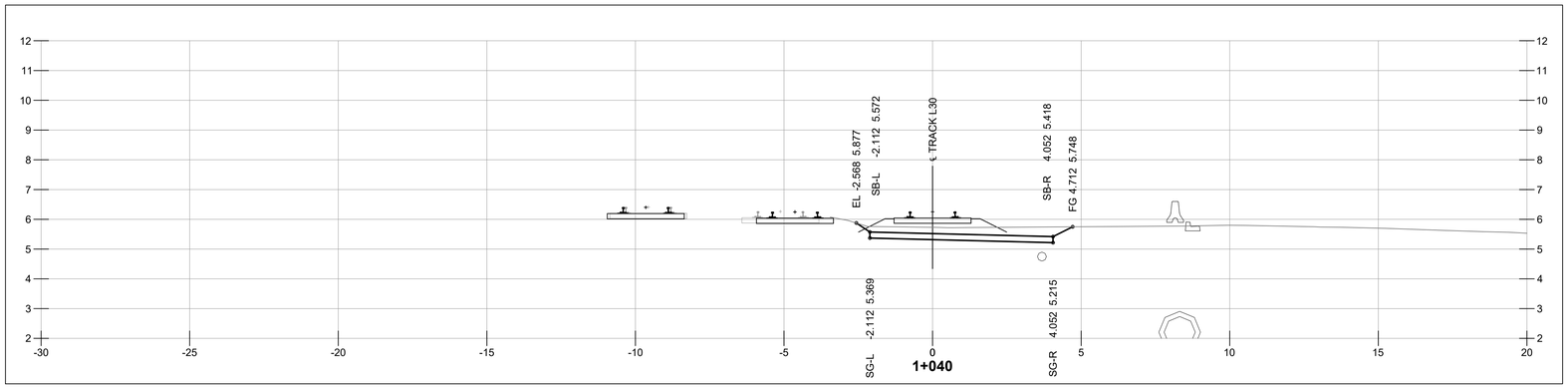
ENGINEERING PROJECTS - WEST

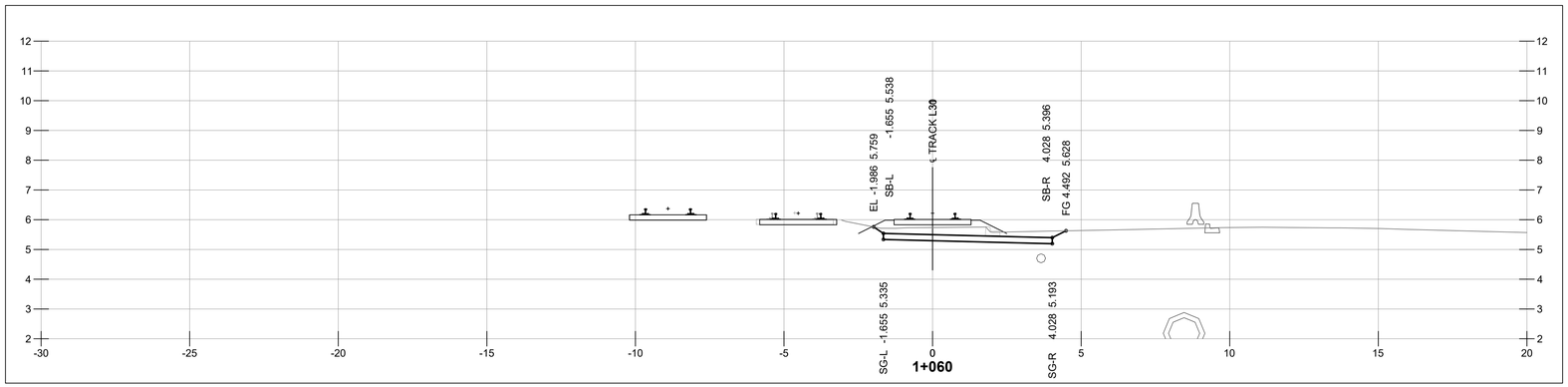
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+000 & STA 1+020

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-7021	Rev. A

Aug 03 , 2021 , 9:14am Login name: shob11128
Drawing Name: C:\pwworking\h\\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D.	**P.S.**
DATE: **03-08-21**	DATE: **03-08-21**
CHECKED BY:	PROJECT MANAGER:
V.C.	**I.M.**
DATE: **03-08-21**	DATE: **03-08-21**
HATCH PROJECT No:	DWG SCALE(FULL SIZE):
H362376	**1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

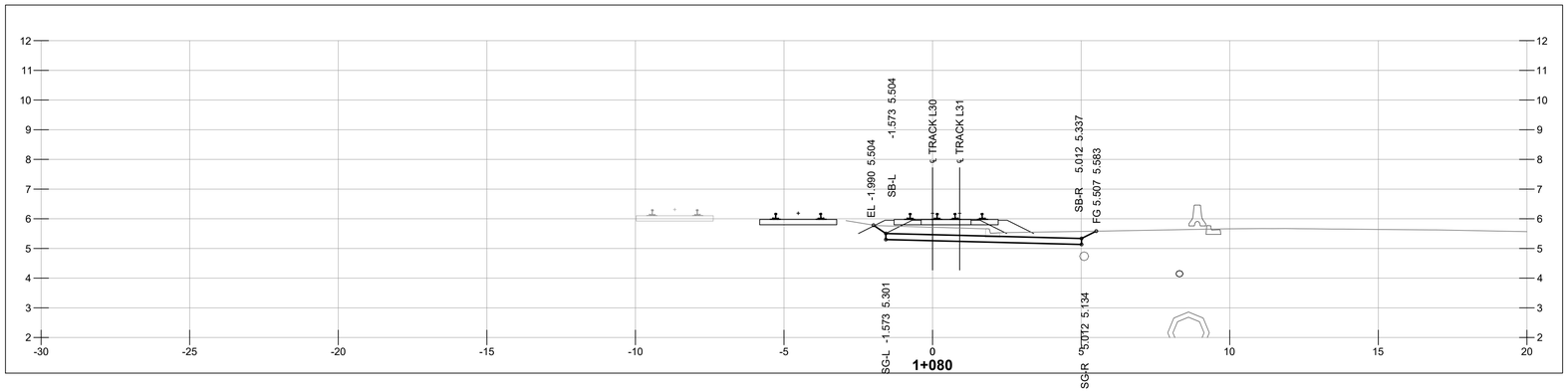
ENGINEERING PROJECTS - WEST

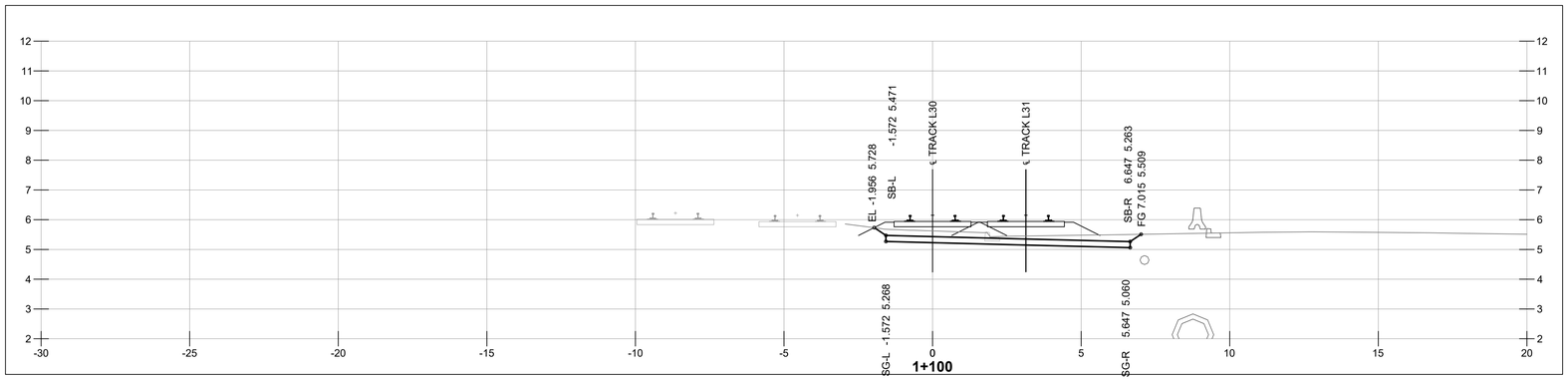
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+040 & STA 1+060

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-7022	Rev. A

Aug 03 , 2021 , 9:14am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

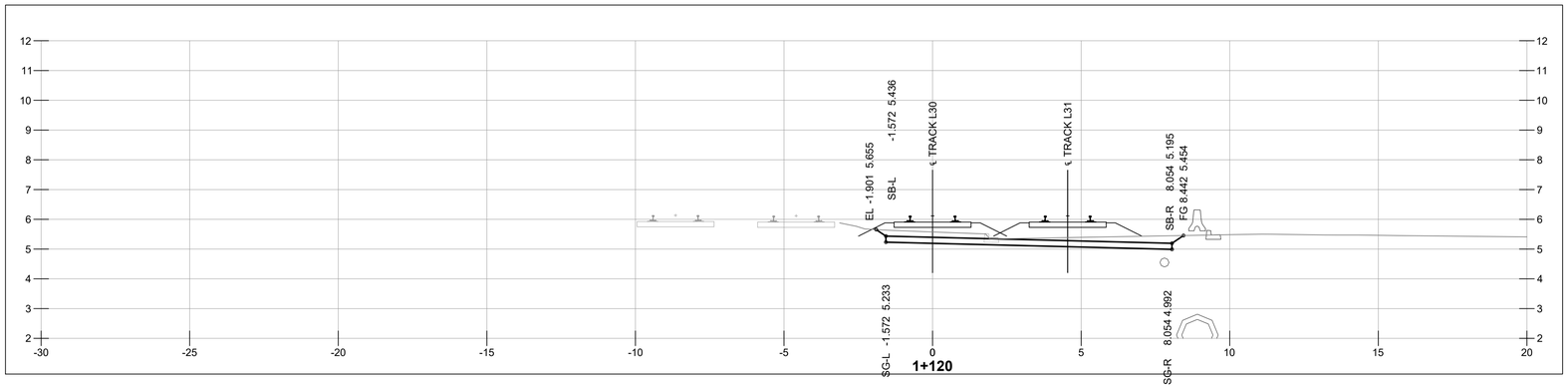
ENGINEERING PROJECTS - WEST

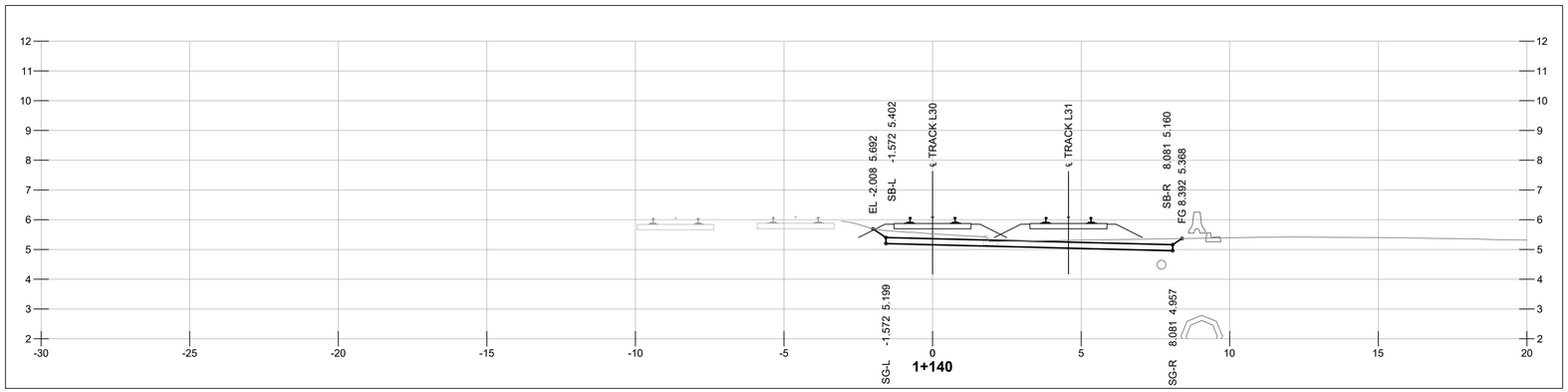
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+080 & STA 1+100

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7023 Rev. A

Aug 03 , 2021 , 9:14am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

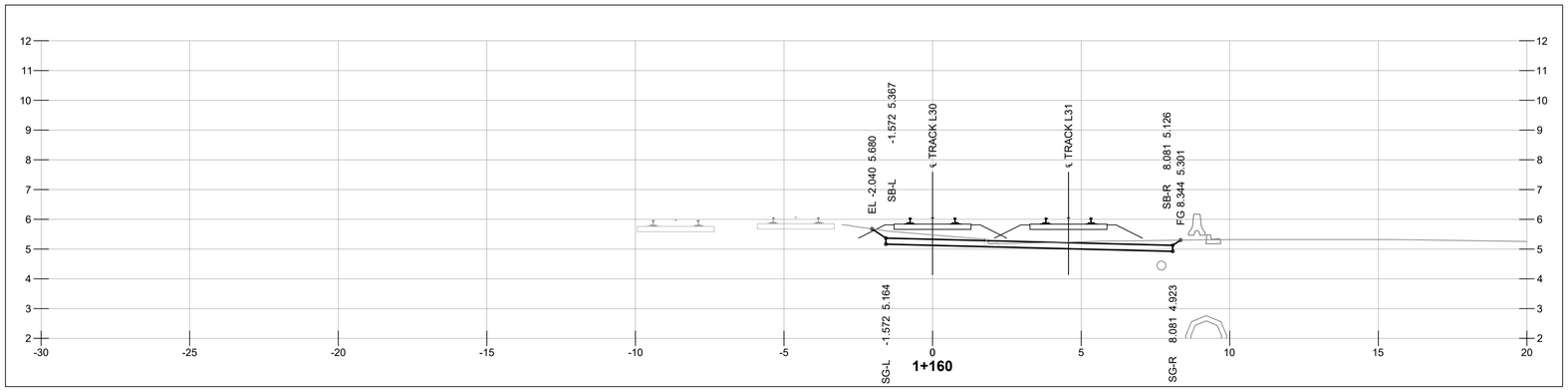
ENGINEERING PROJECTS - WEST

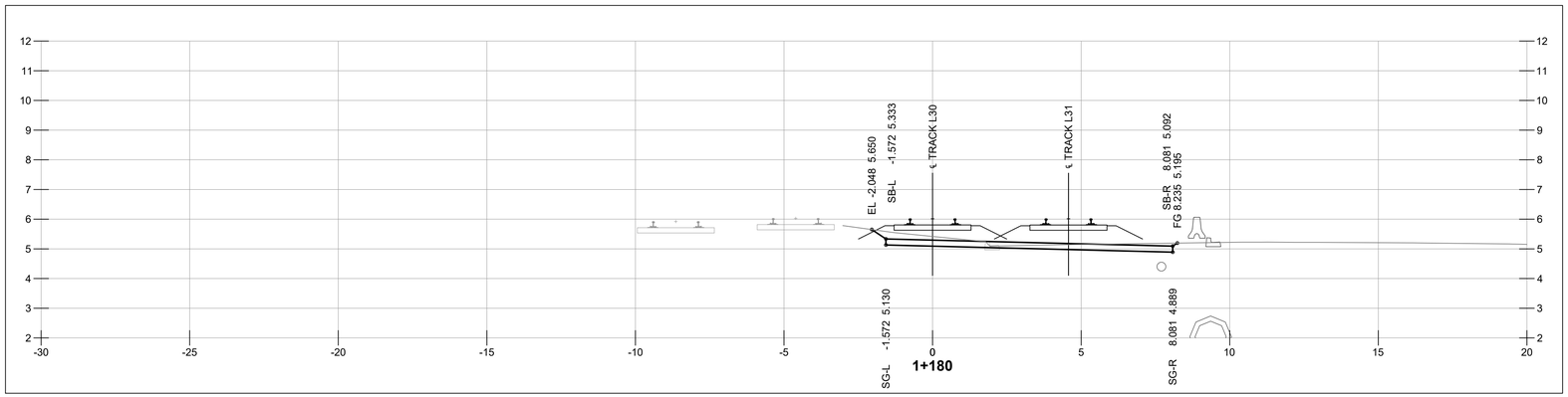
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+120 & STA 1+140

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7024 Rev. A

Aug 03 , 2021 , 9:14am Login name: shob11128
Drawing Name: C:\pwworking\h\\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: **03-08-21**	**P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

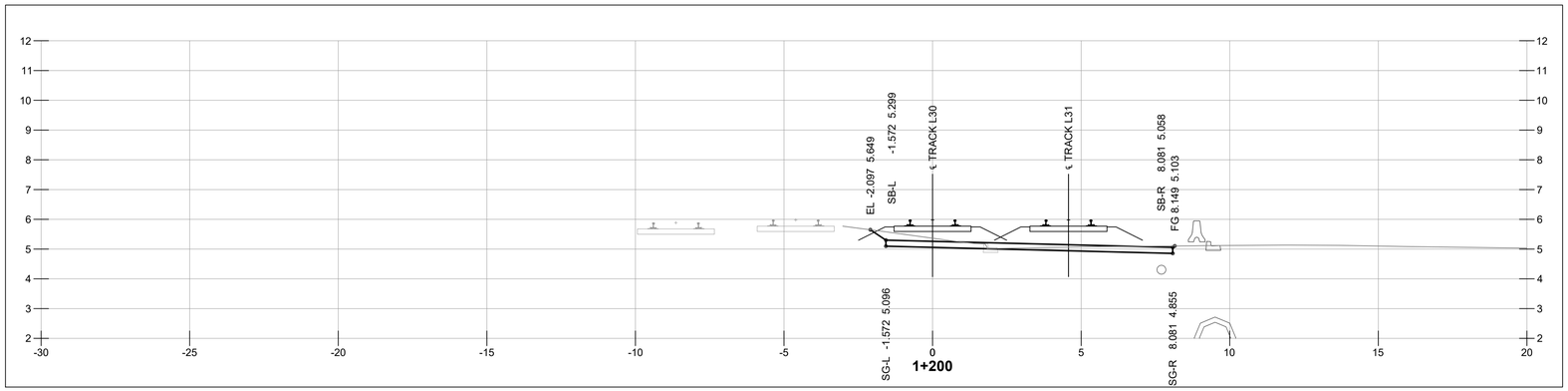
ENGINEERING PROJECTS - WEST

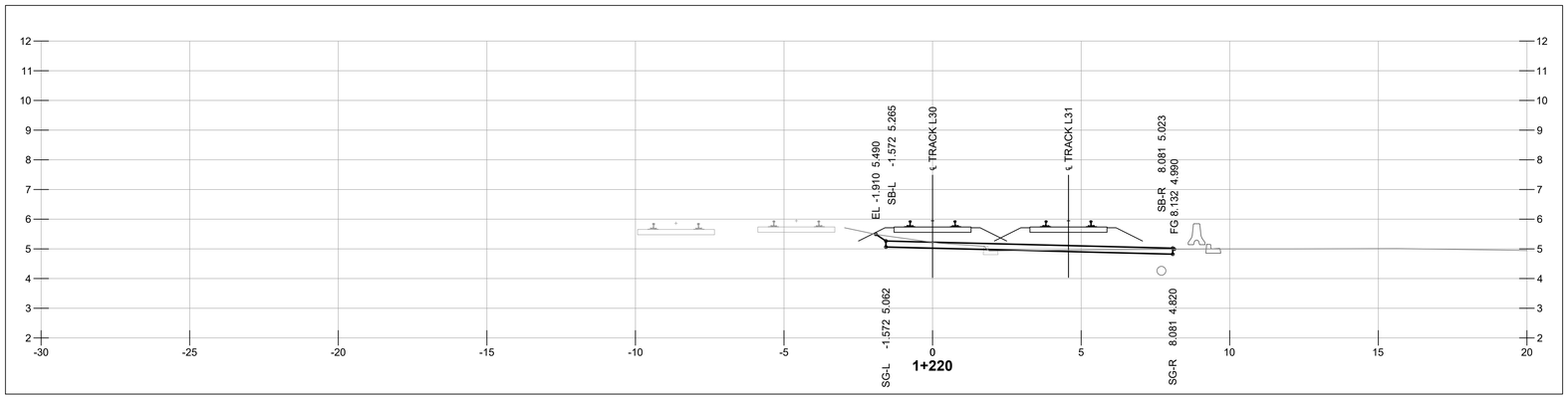
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+160 & STA 1+180

DWG. BY: CHK BY:	OFFICE FILE:	
	SCALE:	
MANAGER - DESIGN:	DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7025	Rev. A

Aug 03 , 2021 , 9:15am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

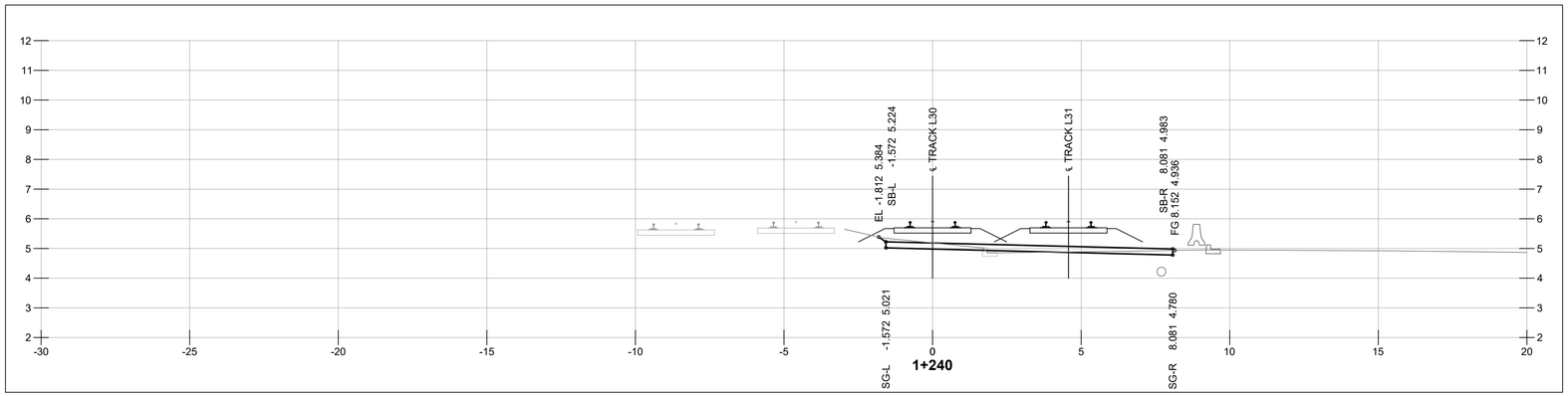
ENGINEERING PROJECTS - WEST

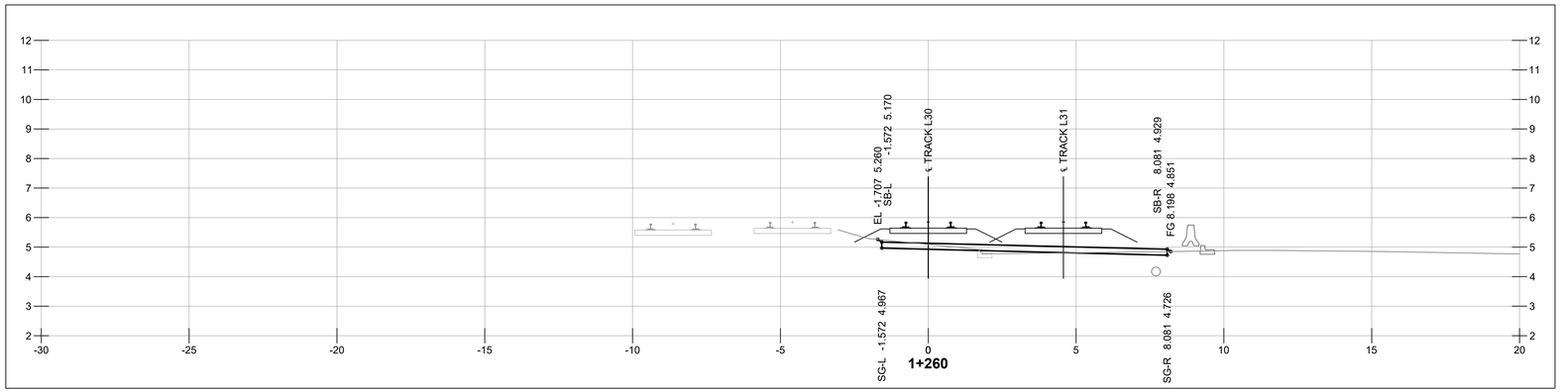
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+200 & STA 1+220

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7026 Rev. A

Aug 03 , 2021 , 9:15am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

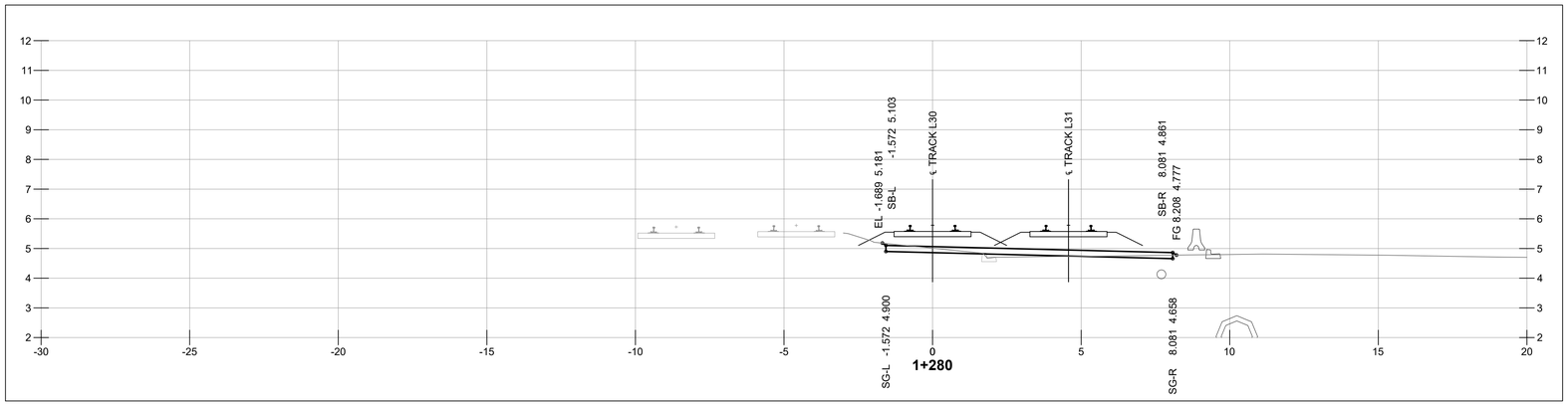
ENGINEERING PROJECTS - WEST

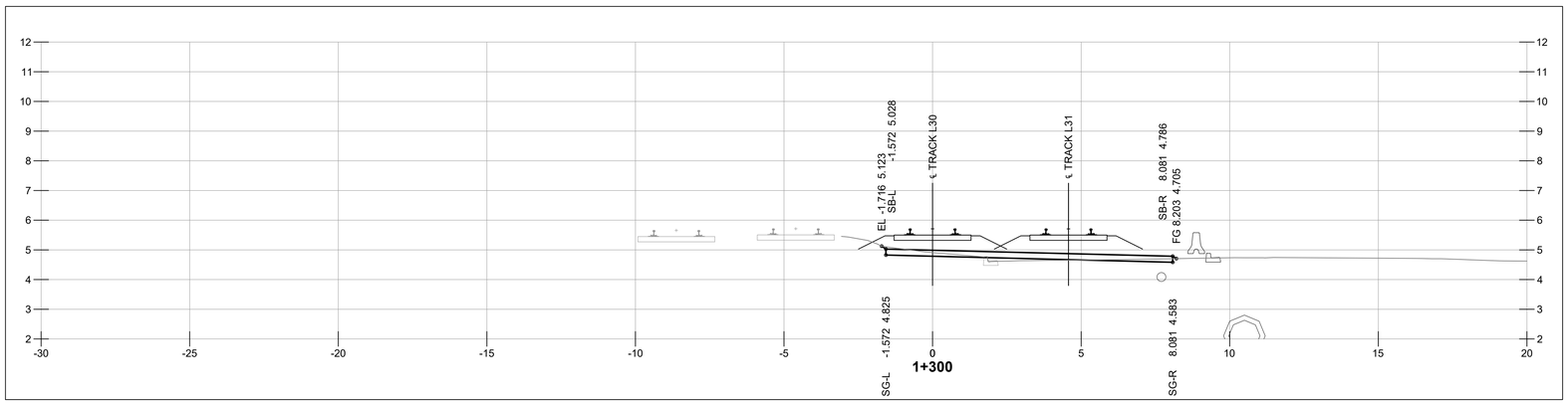
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+240 & STA 1+260

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7027 Rev. A

Aug 03 , 2021 , 9:15am Login name: shob11128
Drawing Name: C:\pwworking\hh\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

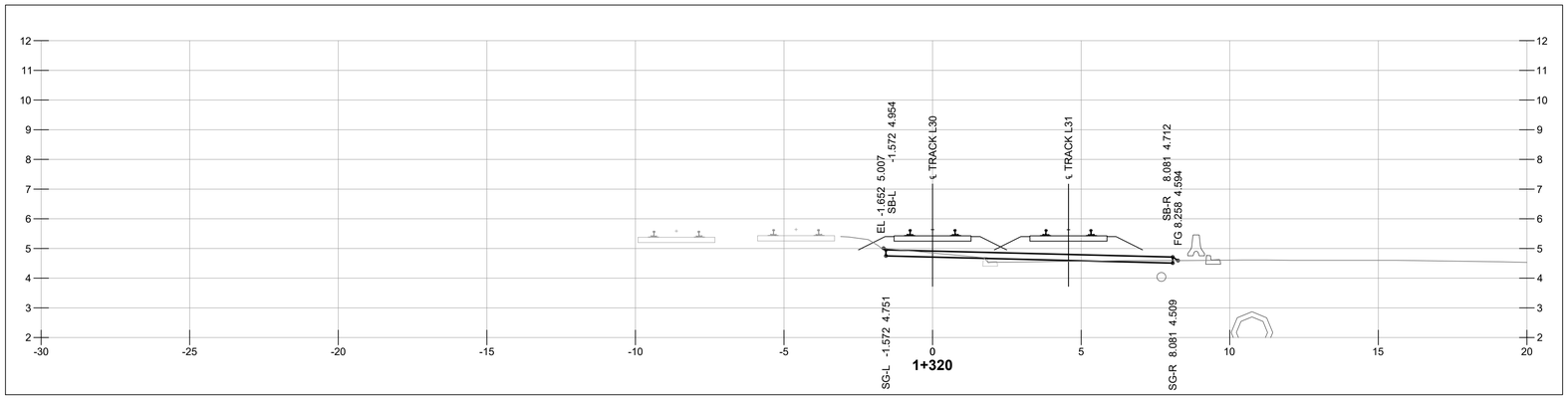
ENGINEERING PROJECTS - WEST

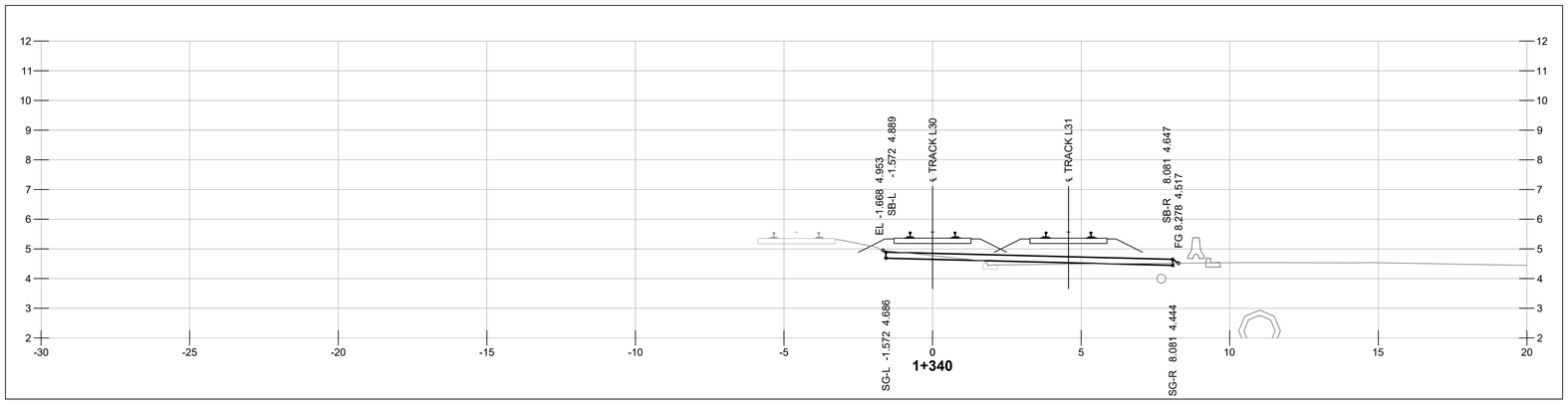
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+280 & STA 1+300

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7028 Rev. A

Aug 03 , 2021 , 9:16am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

CP

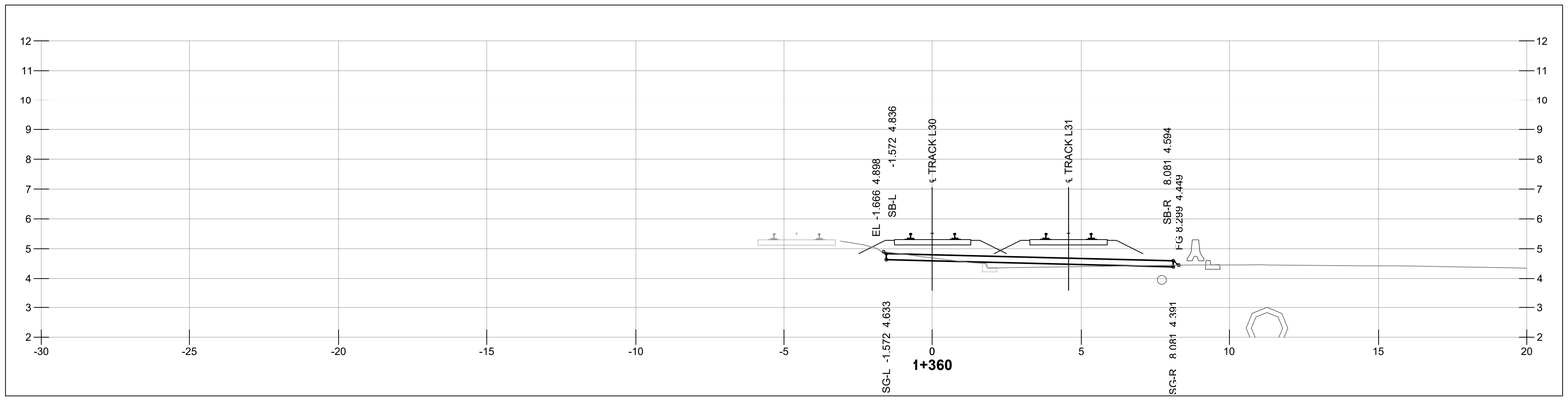
ENGINEERING PROJECTS - WEST

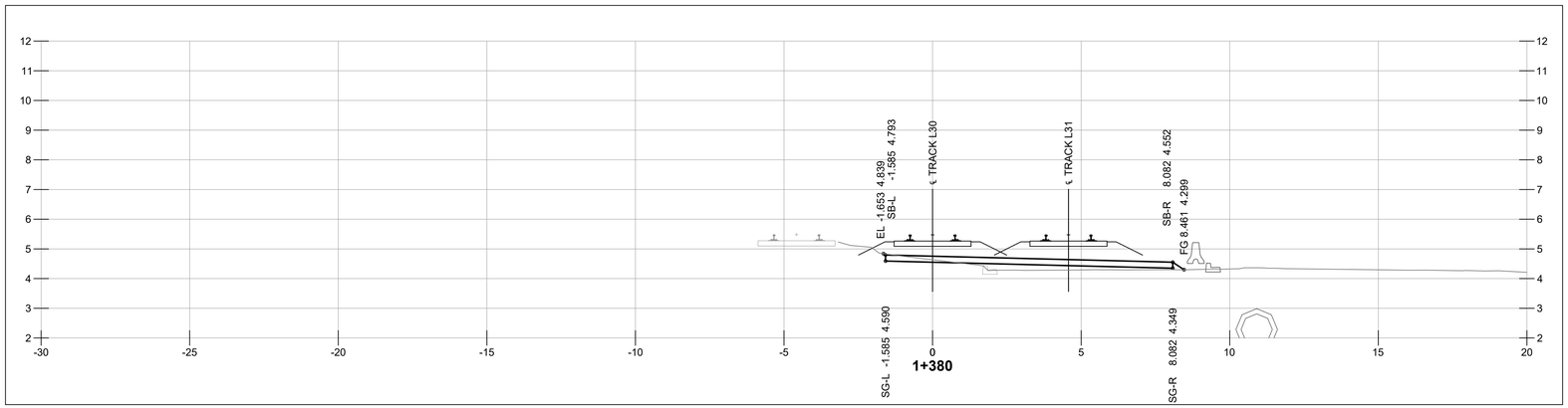
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+320 & STA 1+340

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7029 Rev. A

Aug 03 , 2021 , 9:16am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

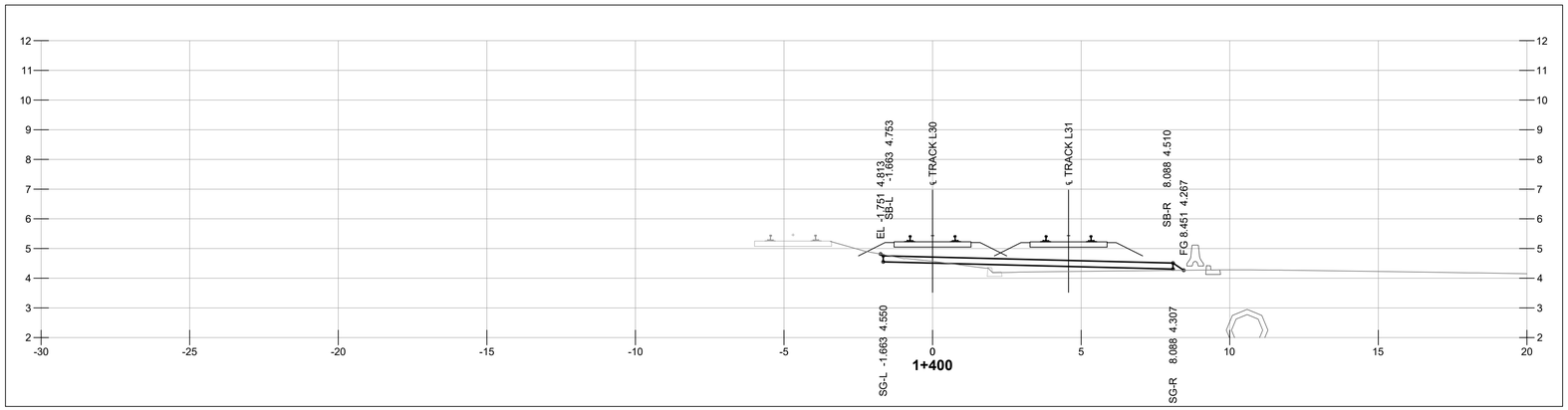
ENGINEERING PROJECTS - WEST

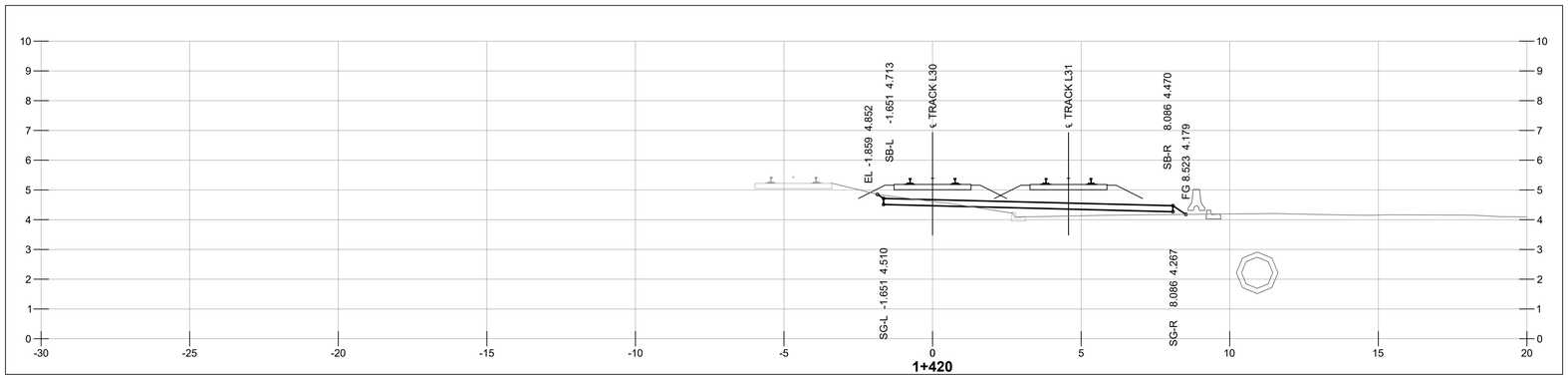
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+360 & STA 1+380

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7030 Rev. A

Aug 03 , 2021 , 9:16am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

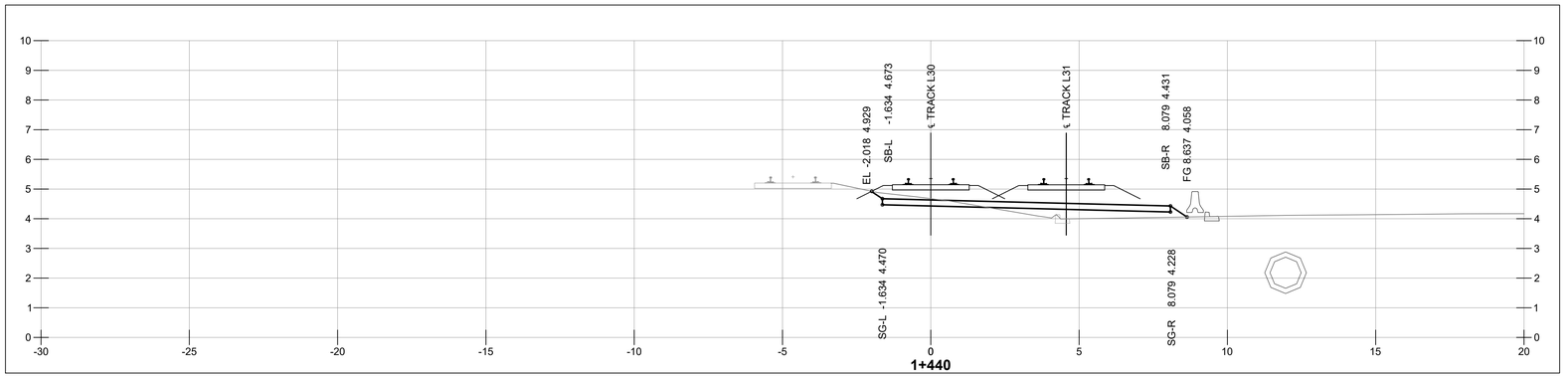
ENGINEERING PROJECTS - WEST

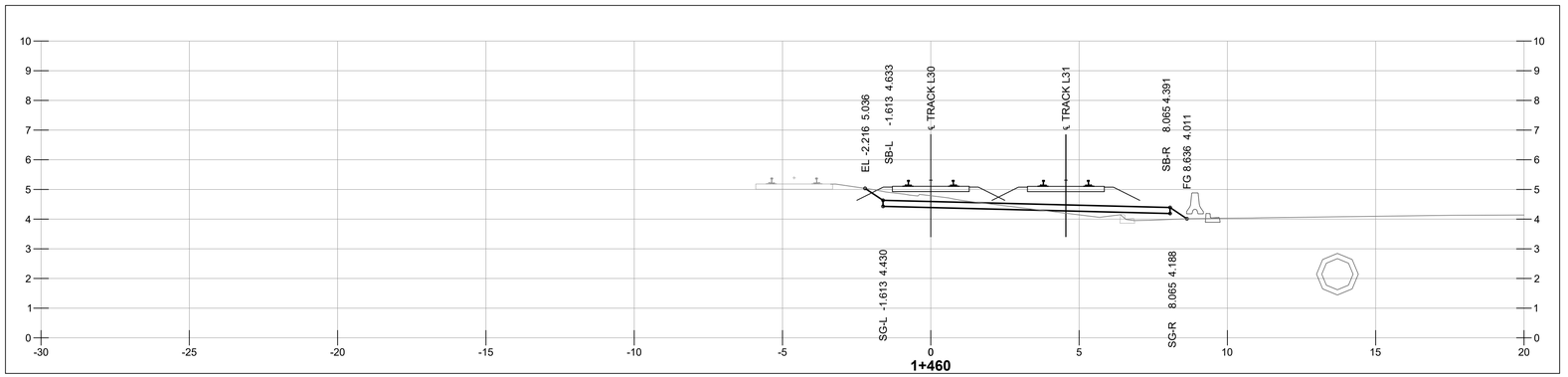
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+400 & STA 1+420

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7031 Rev. A

Aug 03 , 2021 , 9:16am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D.	**P.S.**
DATE: **03-08-21**	DATE: **03-08-21**
CHECKED BY:	PROJECT MANAGER:
V.C.	**I.M.**
DATE: **03-08-21**	DATE: **03-08-21**
HATCH PROJECT No:	DWG SCALE(FULL SIZE):
H362376	**1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	**ISSUED FOR 90% DESIGN**	F.D.

CP

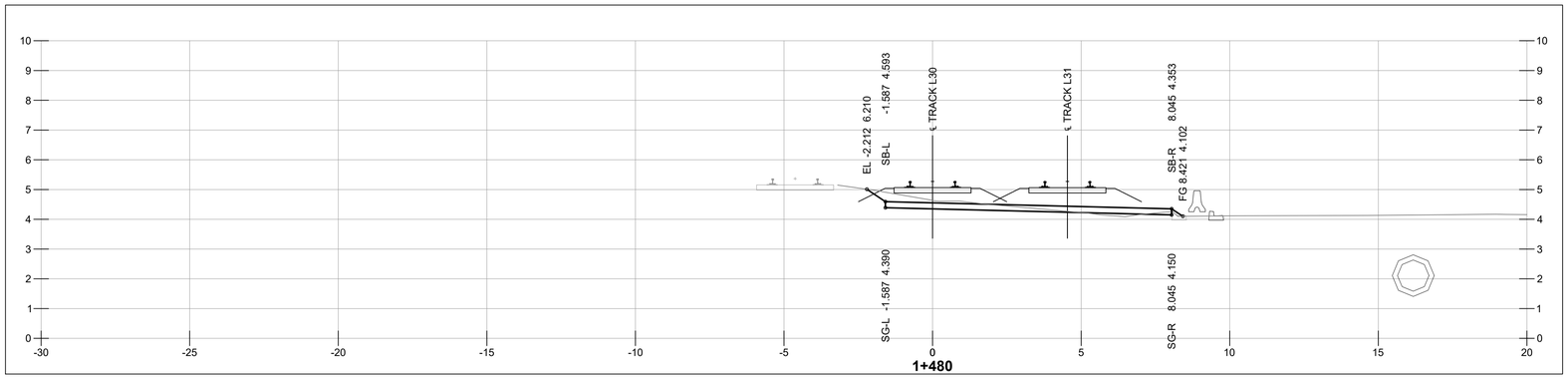
ENGINEERING PROJECTS - WEST

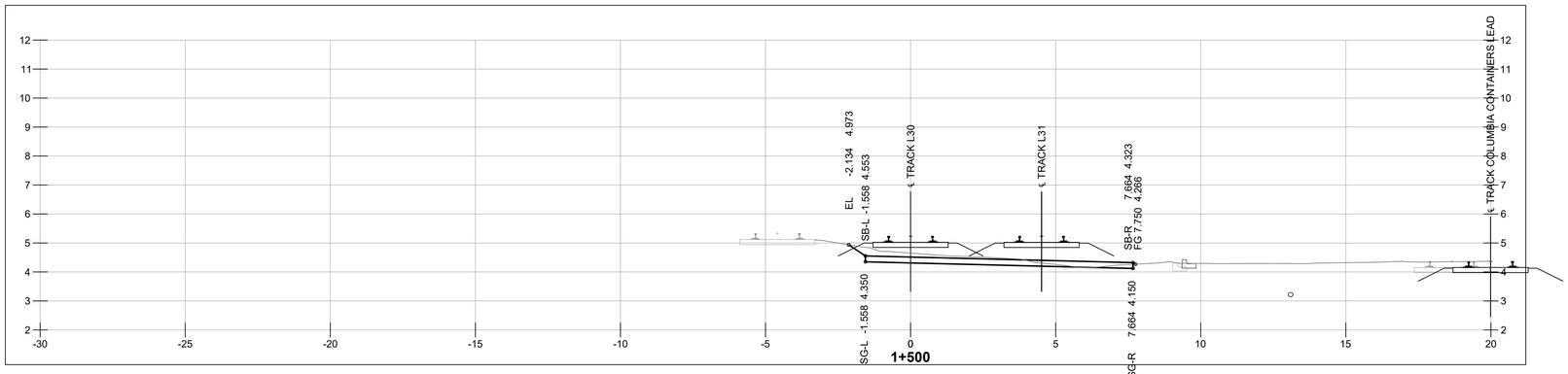
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+440 & STA 1+460

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-7032	Rev. A

Aug 03 , 2021 , 9:17am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

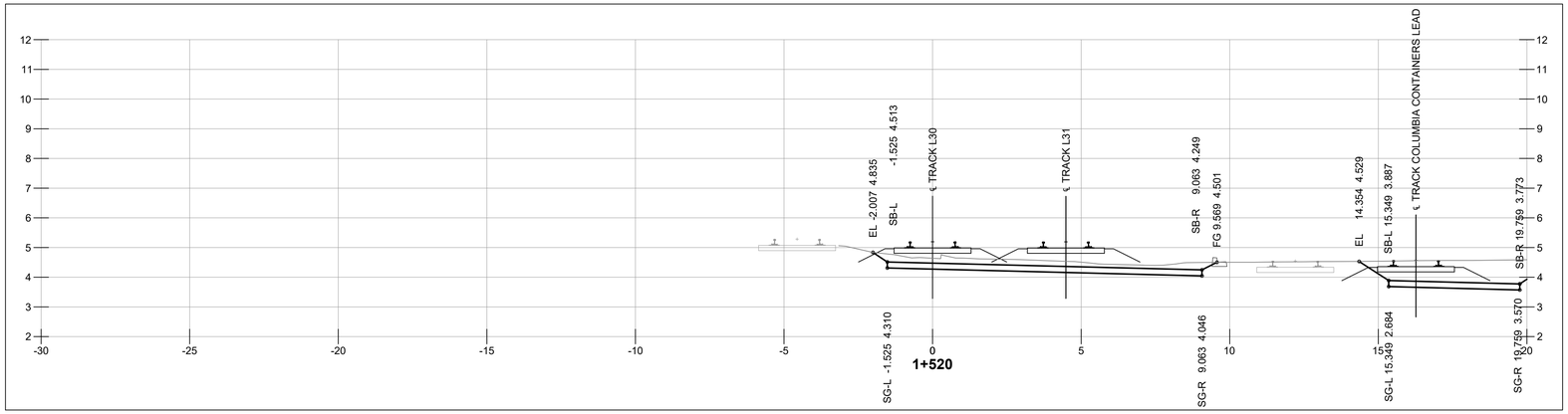
ENGINEERING PROJECTS - WEST

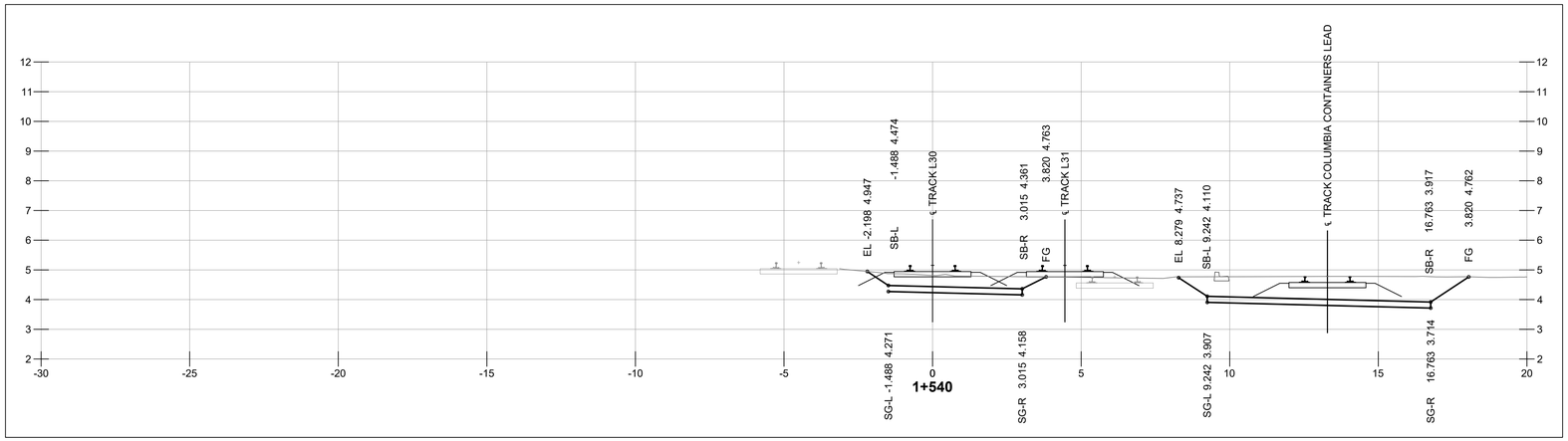
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+480 & STA 1+500

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7033 Rev. A

Aug 03 , 2021 , 9:17am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

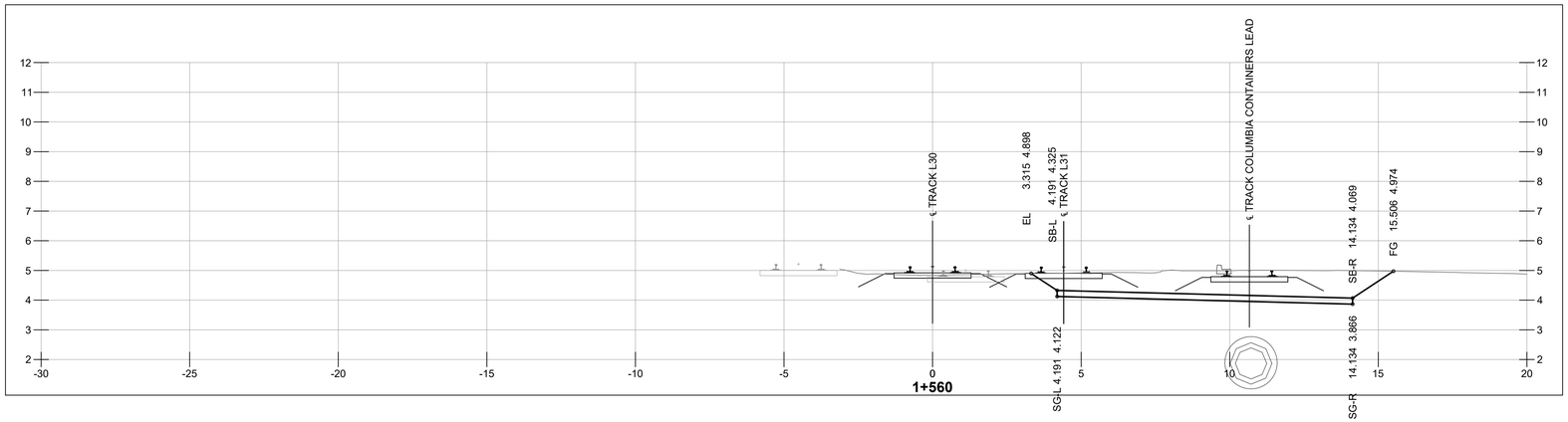
ENGINEERING PROJECTS - WEST

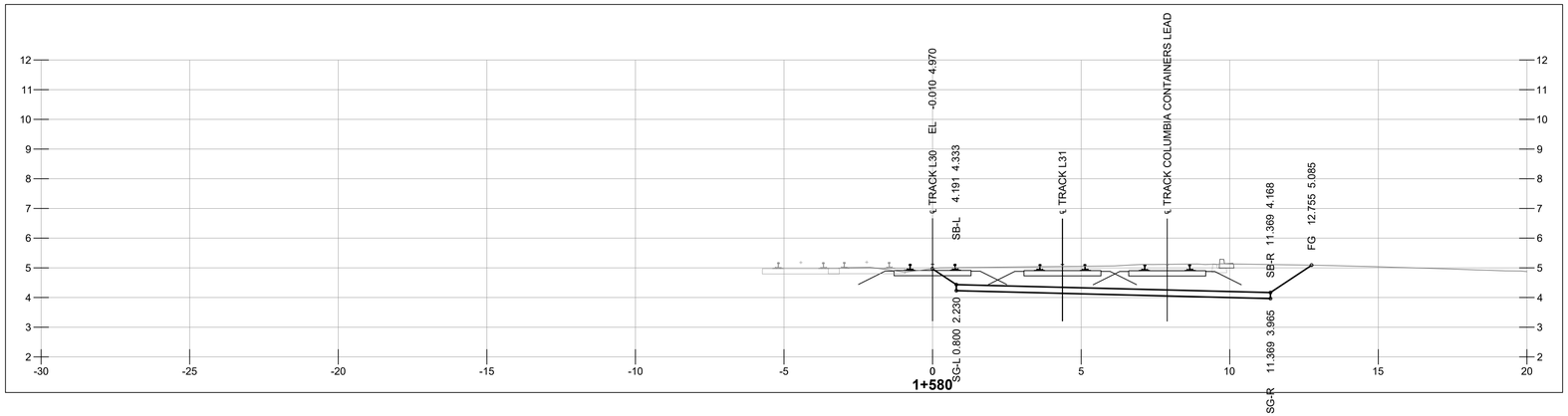
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+520 & STA 1+540

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7034 / Rev. A

Aug 03 , 2021 , 9:17am Login name: shob11128
Drawing Name: C:\pwworking\vi\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

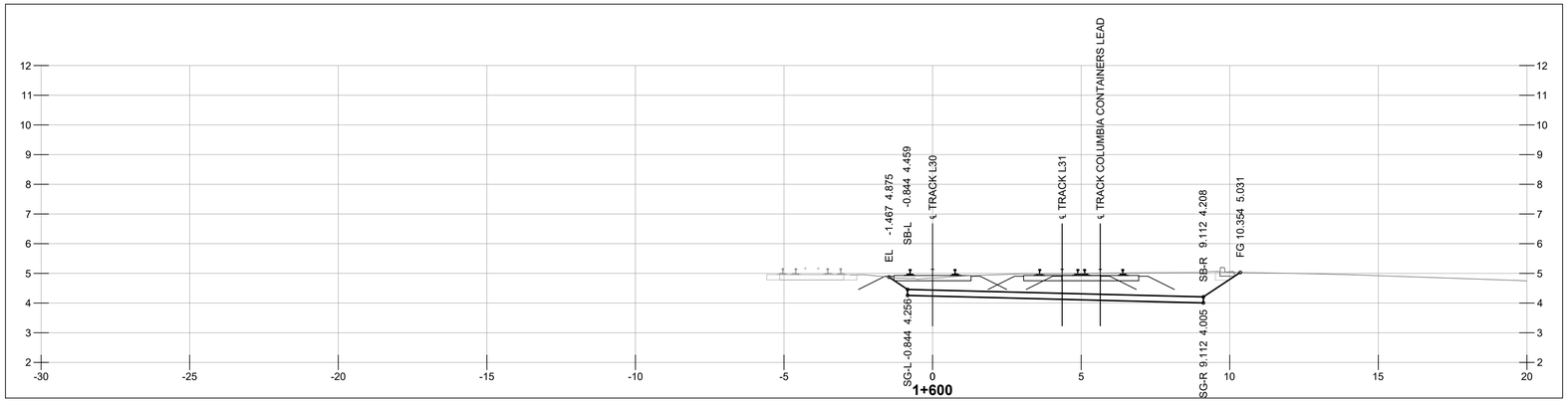
ENGINEERING PROJECTS - WEST

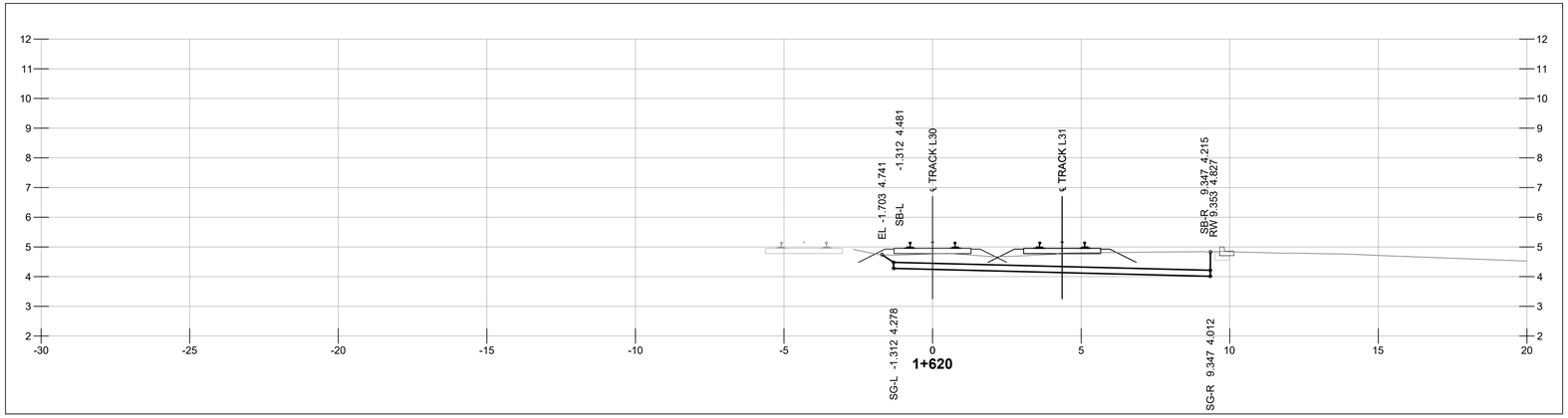
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+560 & STA 1+580

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7035 / Rev. A

Aug 03 , 2021 , 9:17am Login name: shob11128
Drawing Name: C:\pwworking\rh\posha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

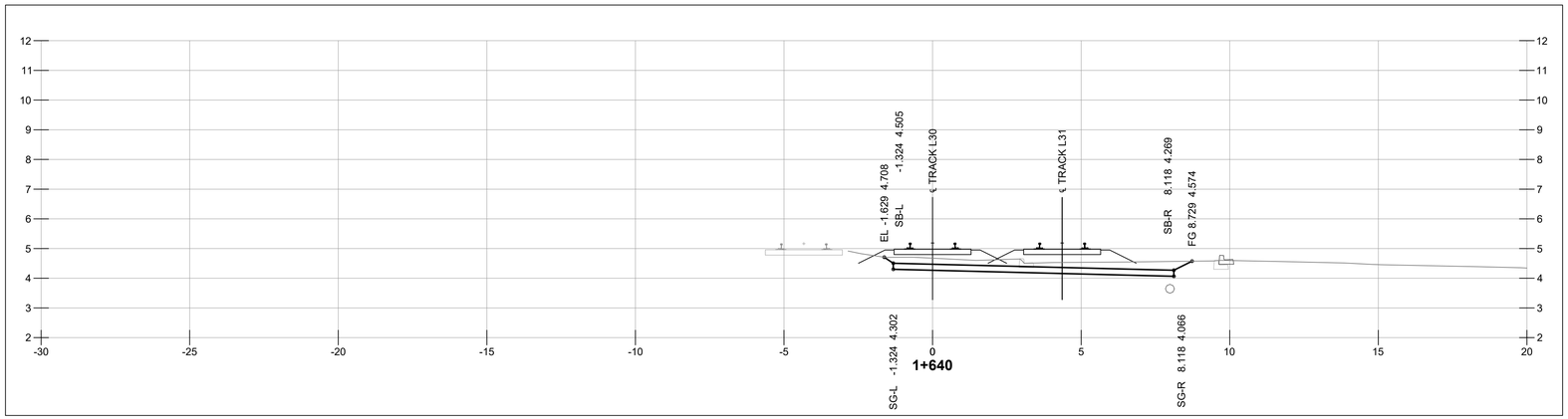
ENGINEERING PROJECTS - WEST

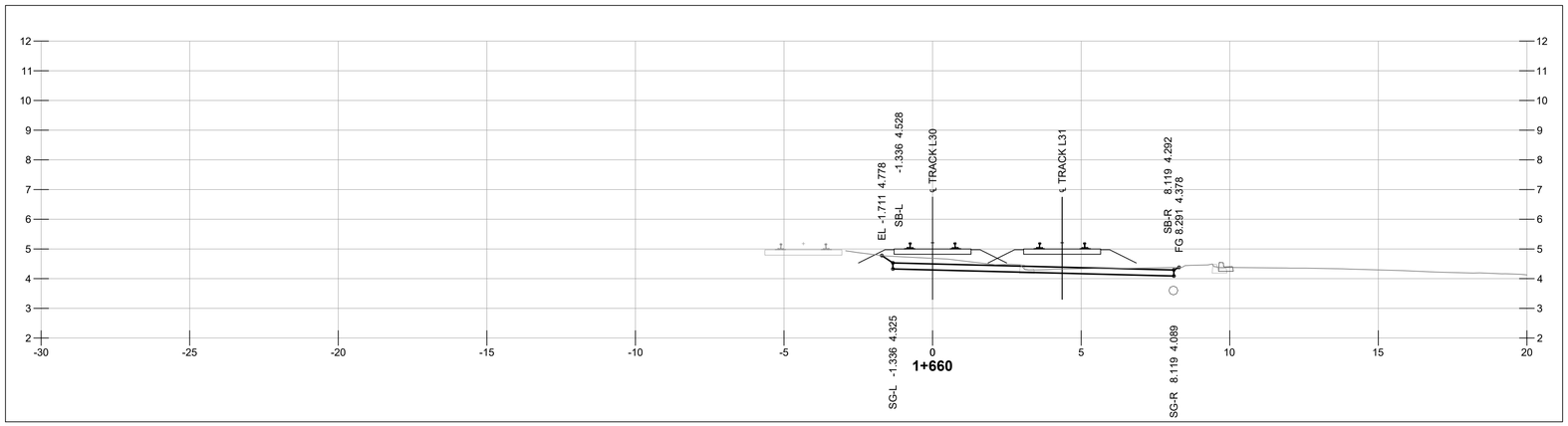
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+600 & STA 1+620

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7036 Rev. A

Aug 03 , 2021 , 9:17am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES
UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D.	**P.S.**
DATE: **03-08-21**	DATE: **03-08-21**
CHECKED BY:	PROJECT MANAGER:
V.C.	**I.M.**
DATE: **03-08-21**	DATE: **03-08-21**
HATCH PROJECT No:	DWG SCALE(FULL SIZE):
H362376	**1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

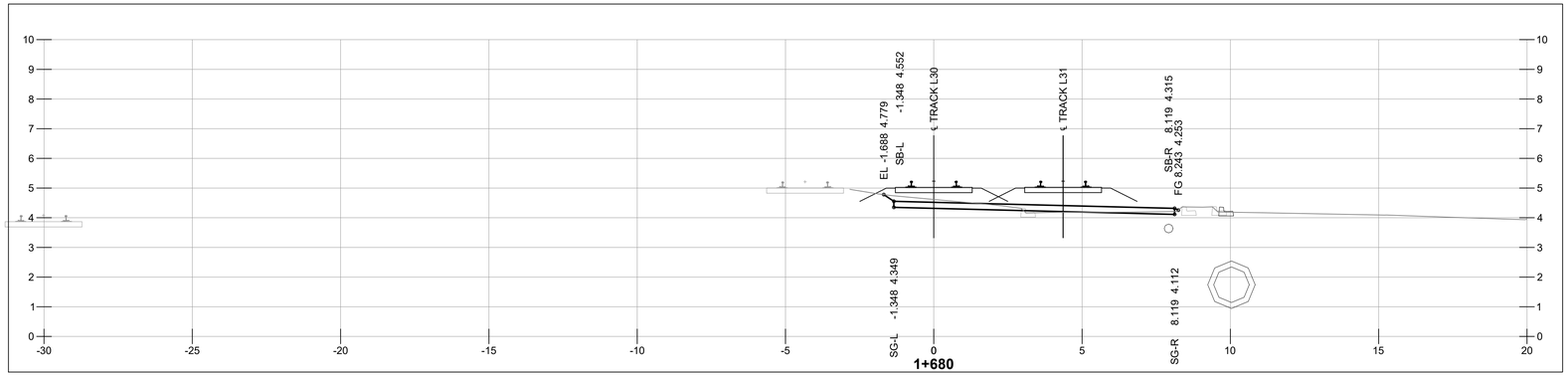
ENGINEERING PROJECTS - WEST

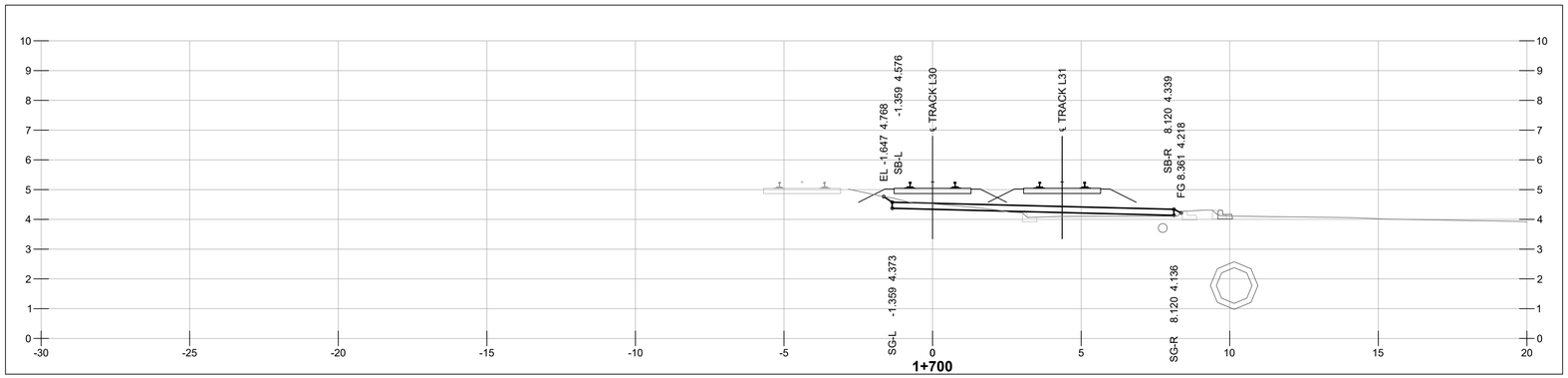
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+640 & STA 1+660

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-7037	Rev. A

Aug 03 , 2021 , 9:18am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: **03-08-21**	**P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+680 & STA 1+700

DWG. BY: CHK BY:	OFFICE FILE:	
	SCALE:	
MANAGER - DESIGN:	DATE:	
M.FAVREAU DIR, PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7038	Rev. A

Aug 03 , 2021 , 9:18am Login name: shob11128
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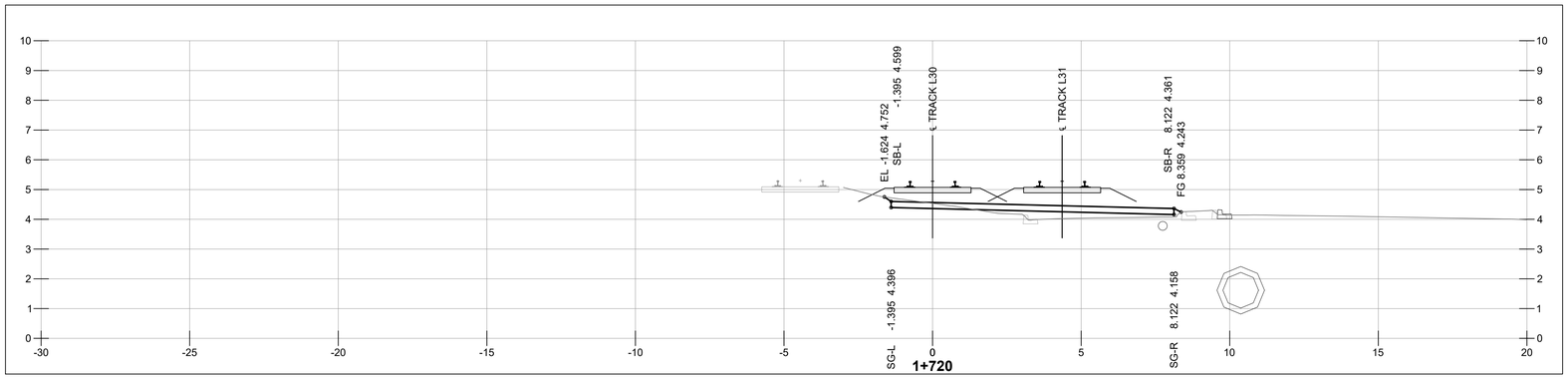
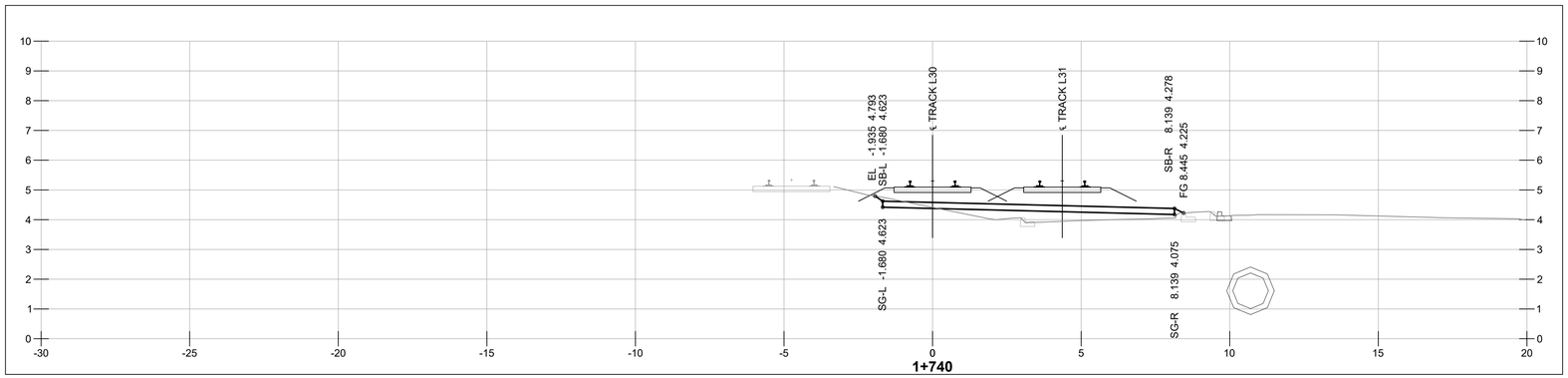




NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

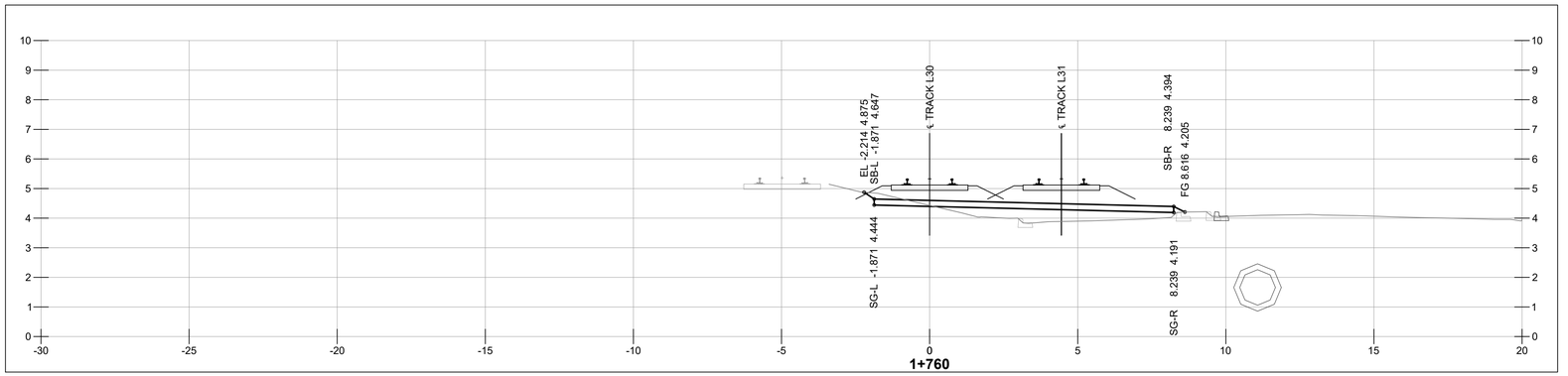
ENGINEERING PROJECTS - WEST

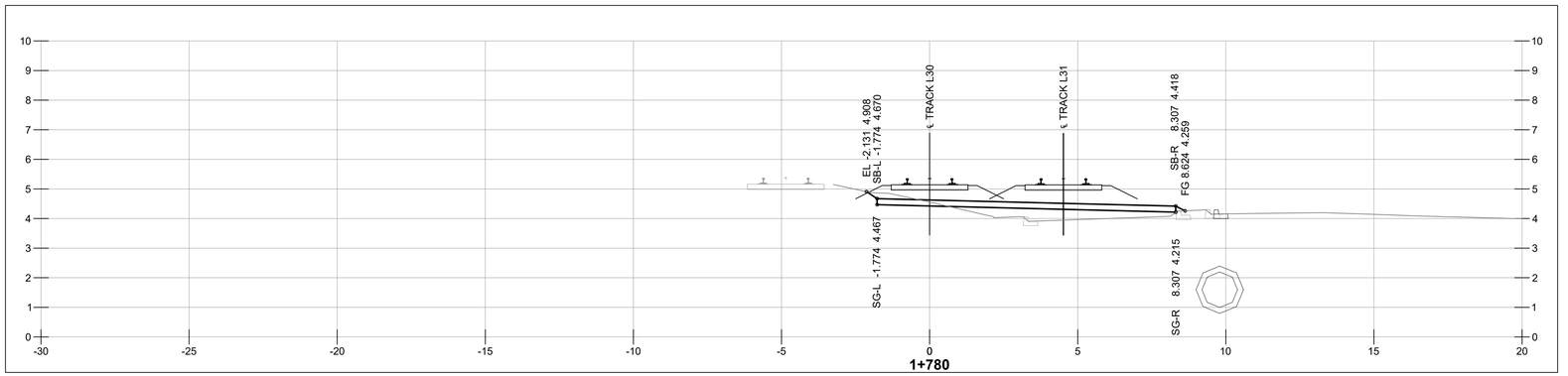
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+720 & STA 1+740

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7039 Rev. A

Aug 03 , 2021 , 9:18am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D.	**P.S.**
DATE: **03-08-21**	DATE: **03-08-21**
CHECKED BY:	PROJECT MANAGER:
V.C.	**I.M.**
DATE: **03-08-21**	DATE: **03-08-21**
HATCH PROJECT No:	DWG SCALE(FULL SIZE):
H362376	**1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

CP

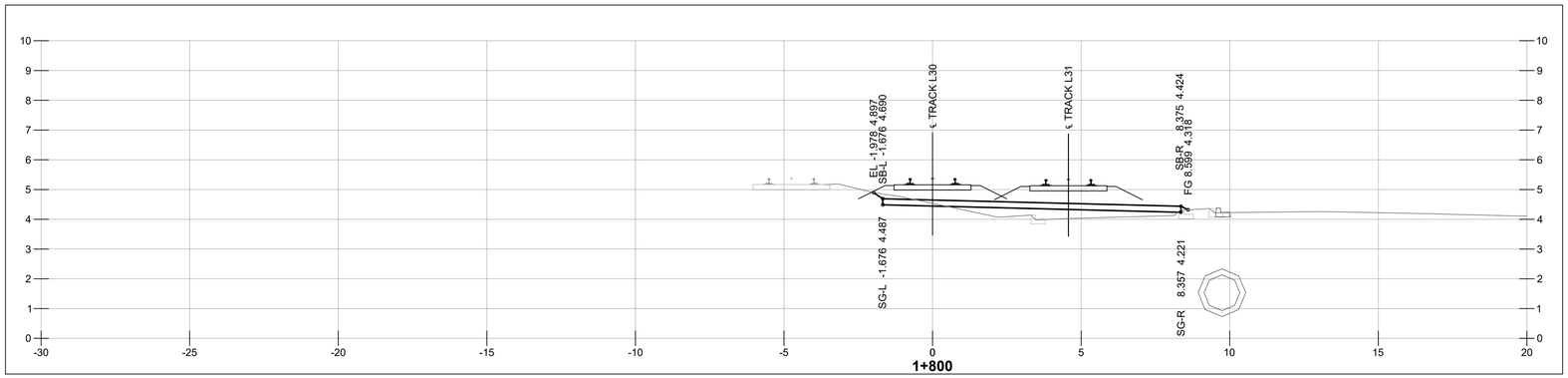
ENGINEERING PROJECTS - WEST

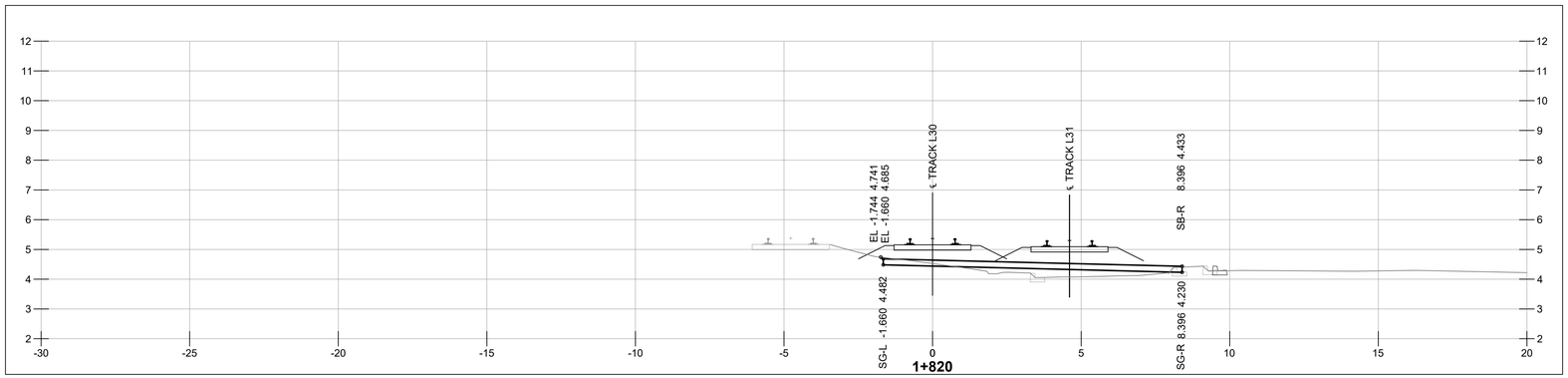
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+760 & STA 1+780

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-7040	Rev. A

Aug 03 , 2021 , 9:18am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

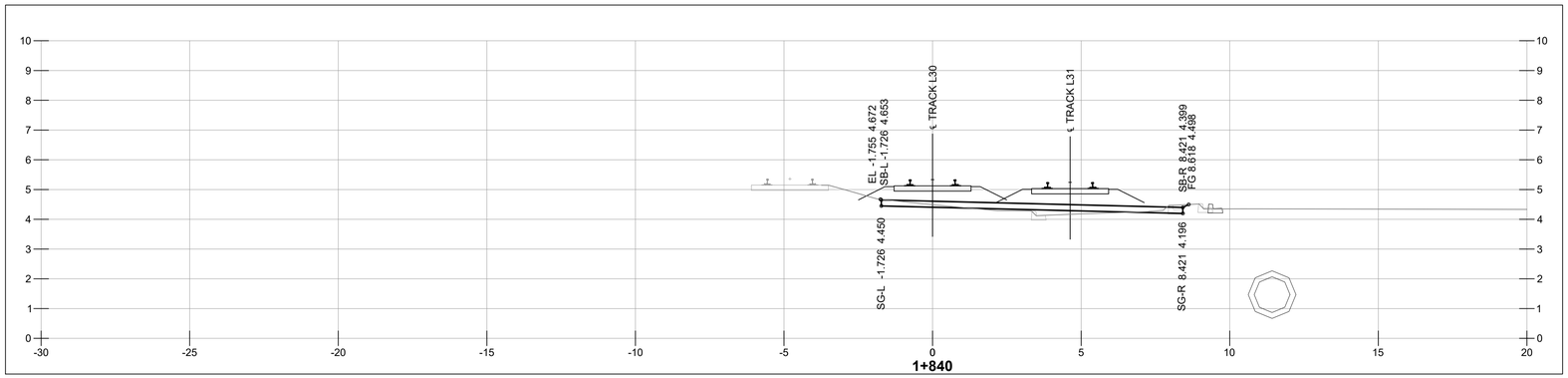
ENGINEERING PROJECTS - WEST

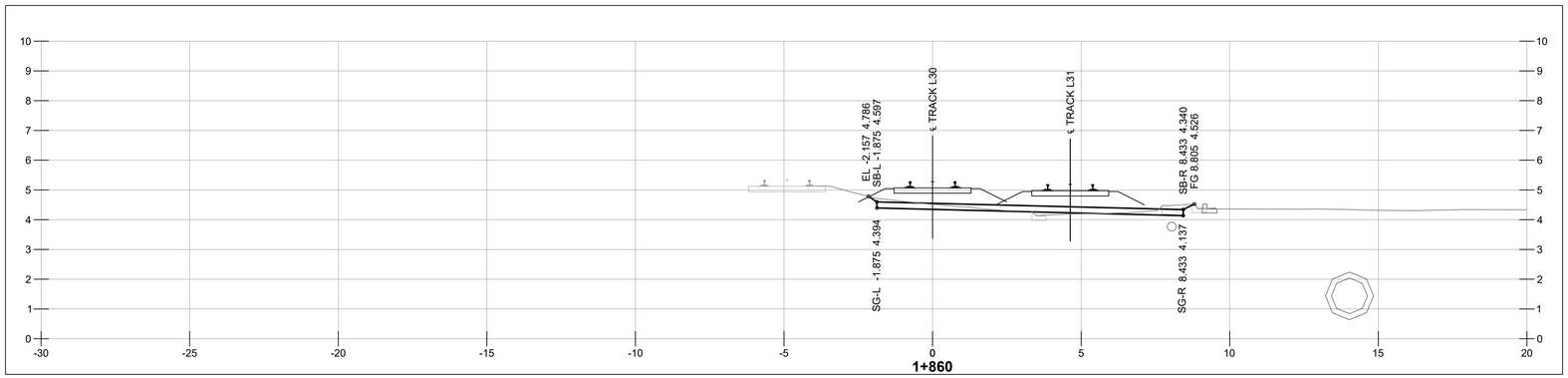
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+800 & STA 1+820

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7041 Rev. A

Aug 03 , 2021 , 9:19am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: **03-08-21**	**P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

CP

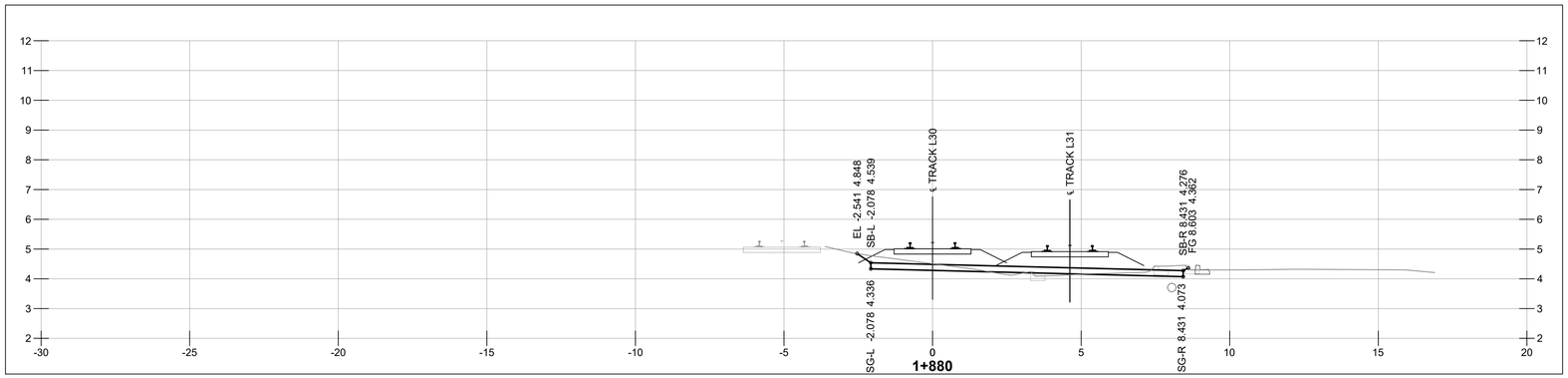
ENGINEERING PROJECTS - WEST

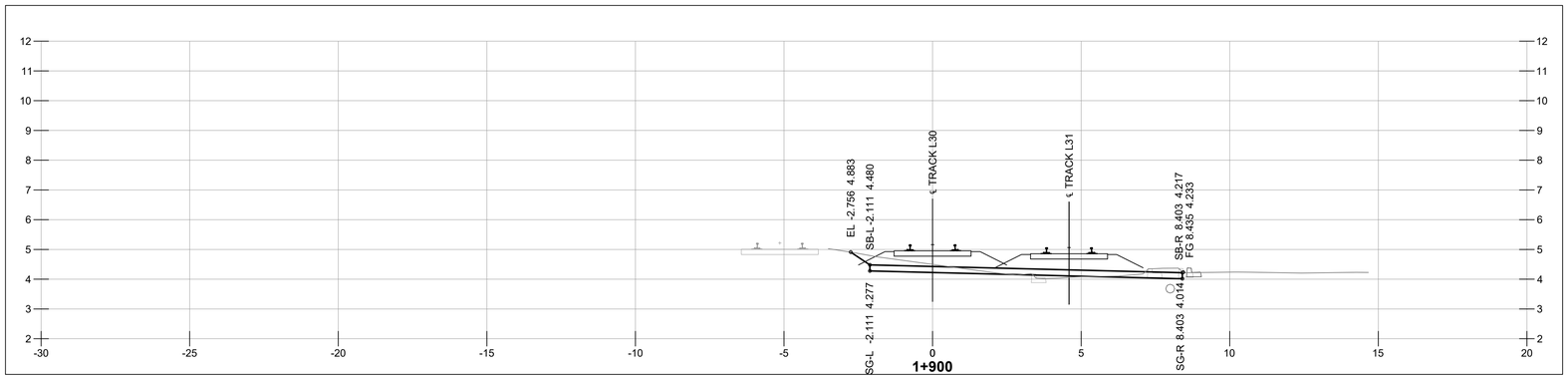
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+840 & STA 1+860

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-7042	Rev. A

Aug 03 , 2021 , 9:19am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

CP

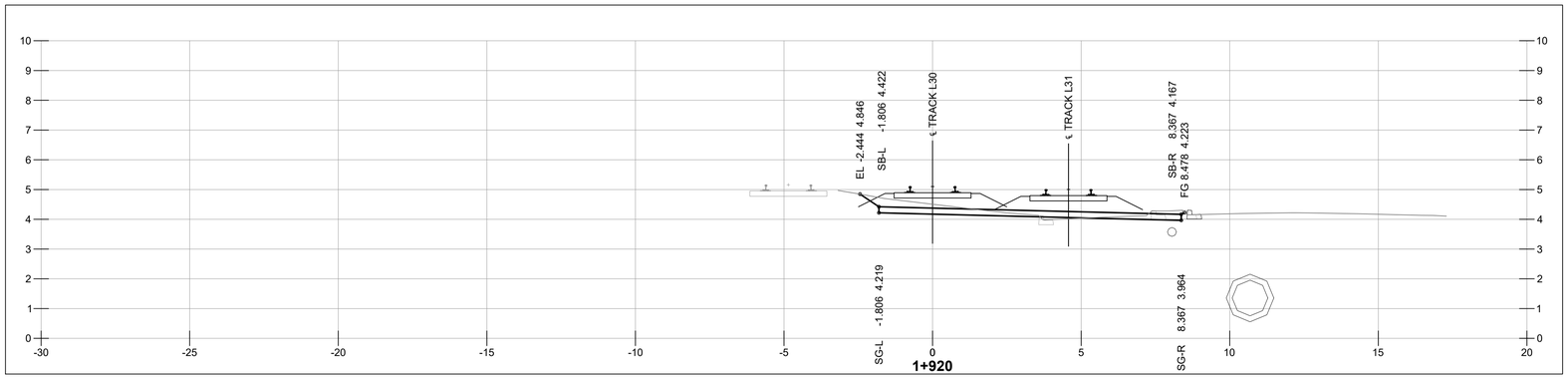
ENGINEERING PROJECTS - WEST

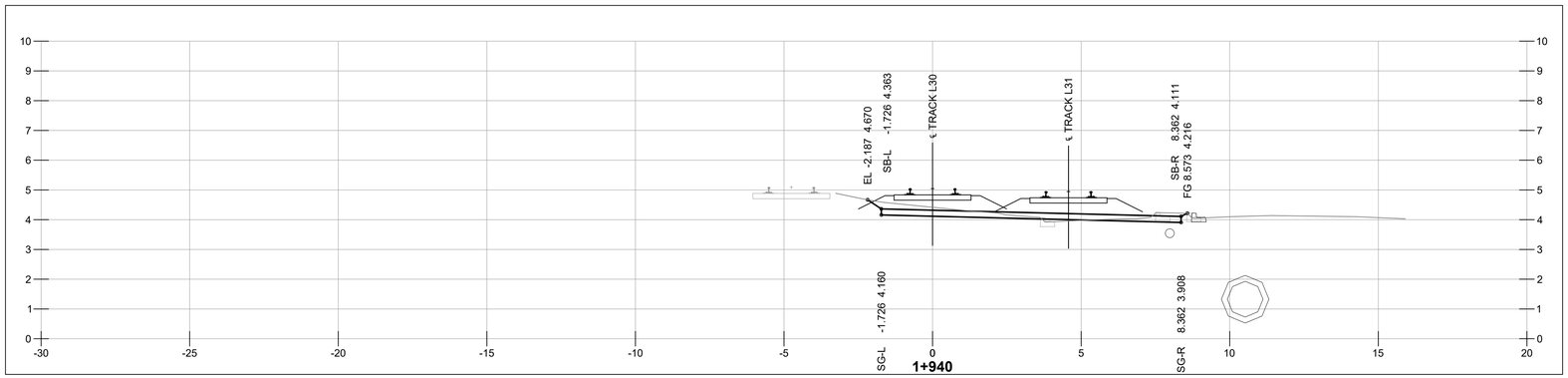
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+880 & STA 1+900

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7043 Rev. A

Aug 03 , 2021 , 9:19am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (CLIENT) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

CP

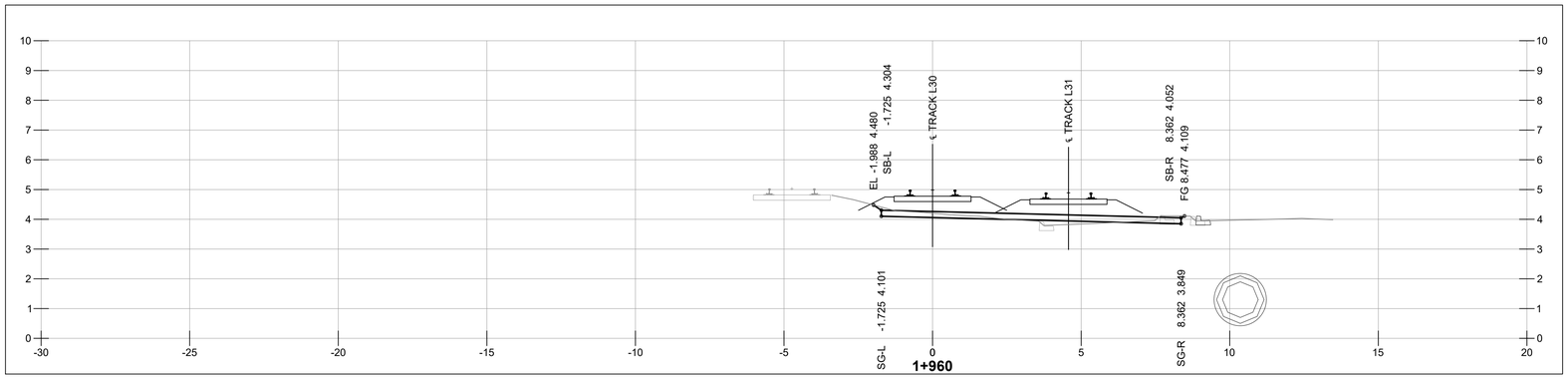
ENGINEERING PROJECTS - WEST

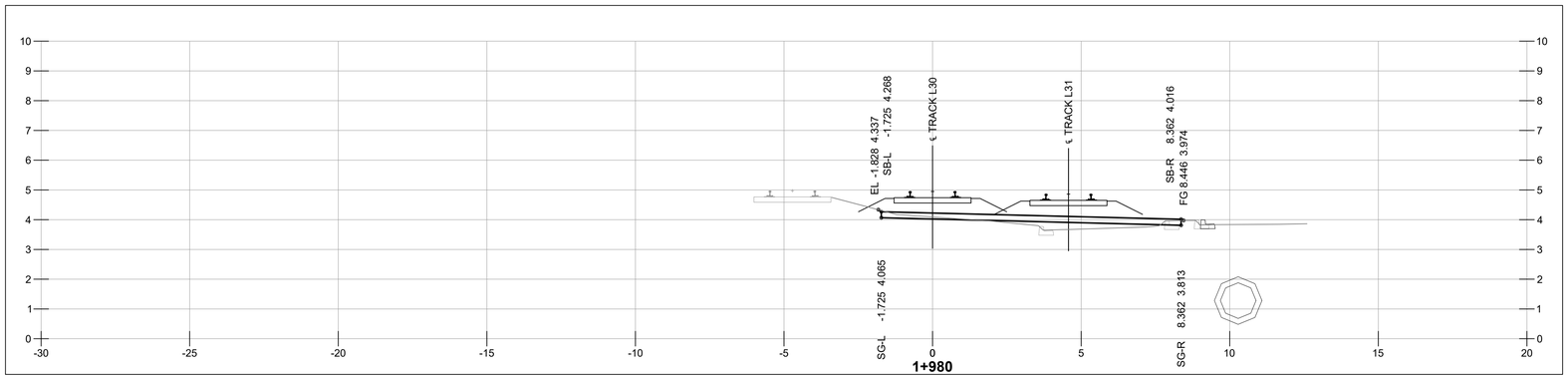
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+920 & STA 1+940

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7044 Rev. A

Aug 03 , 2021 , 9:19am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D.	**P.S.**
DATE: **03-08-21**	DATE: **03-08-21**
CHECKED BY:	PROJECT MANAGER:
V.C.	**I.M.**
DATE: **03-08-21**	DATE: **03-08-21**
HATCH PROJECT No:	DWG SCALE(FULL SIZE):
H362376	**1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

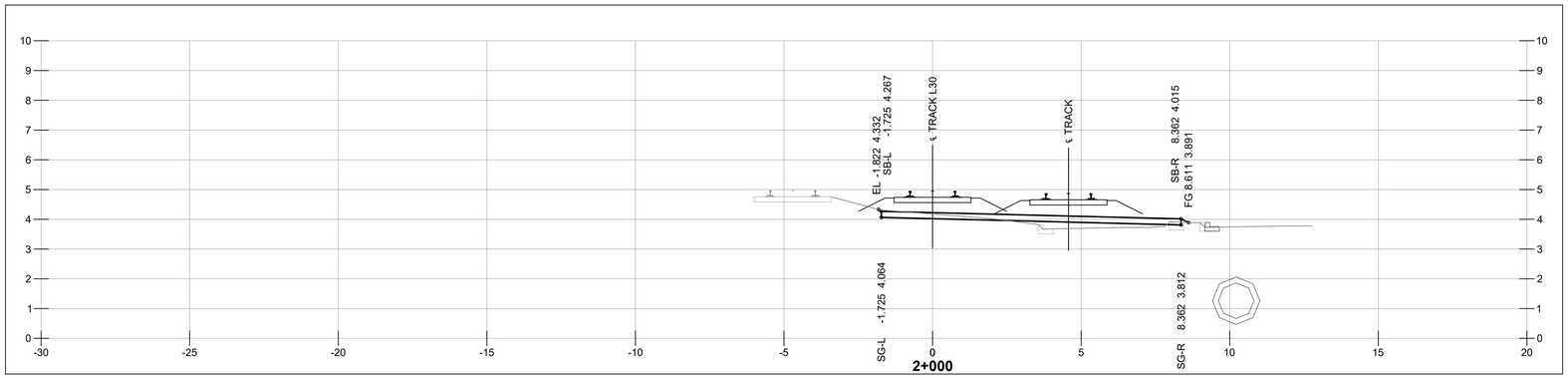
ENGINEERING PROJECTS - WEST

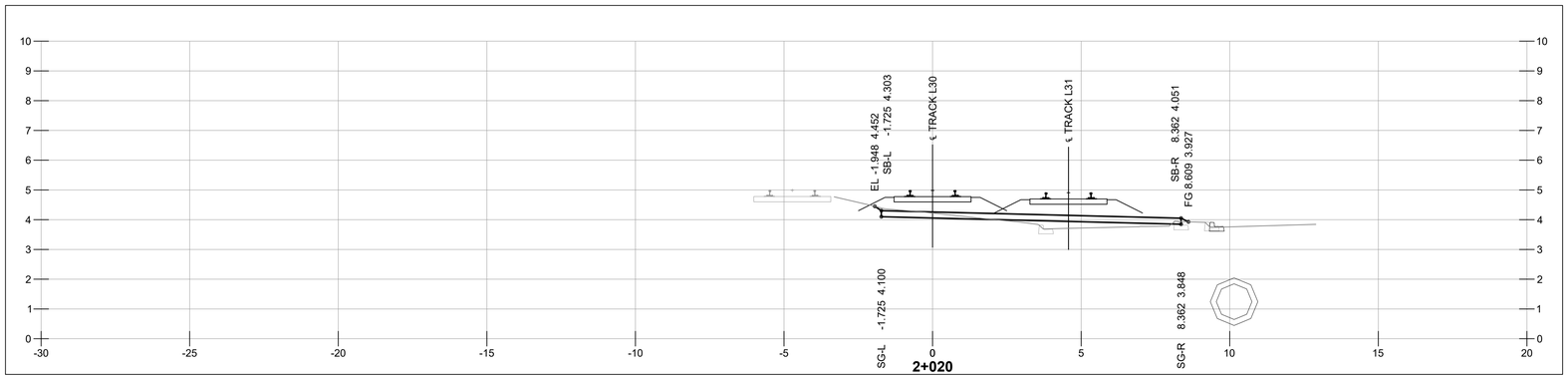
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 1+960 & STA 1+980

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-7045	Rev. A

Aug 03 , 2021 , 9:20am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D.	**P.S.**
DATE: **03-08-21**	DATE: **03-08-21**
CHECKED BY:	PROJECT MANAGER:
V.C.	**I.M.**
DATE: **03-08-21**	DATE: **03-08-21**
HATCH PROJECT No:	DWG SCALE(FULL SIZE):
H362376	**1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	**ISSUED FOR 90% DESIGN**	F.D.

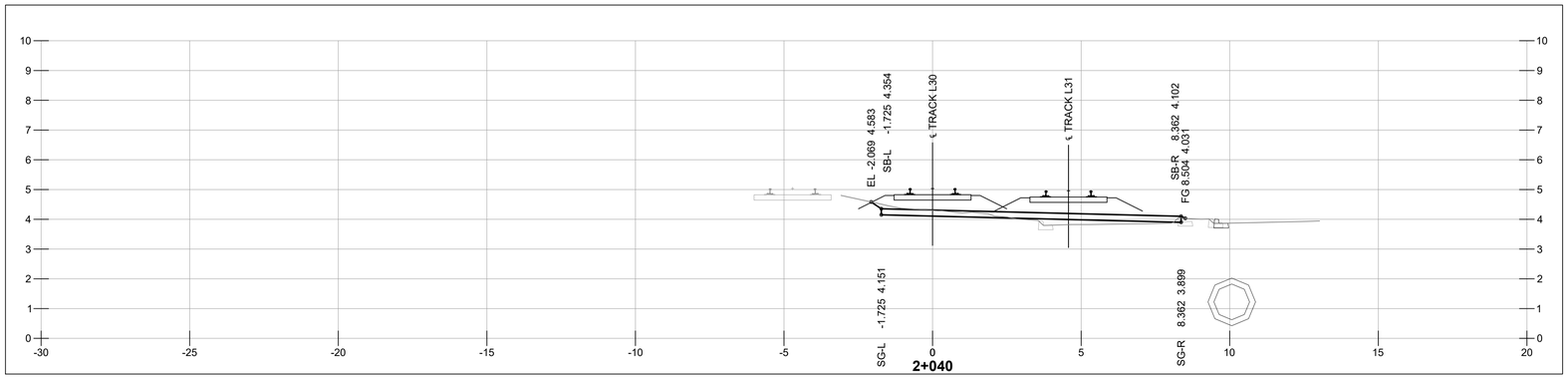
ENGINEERING PROJECTS - WEST

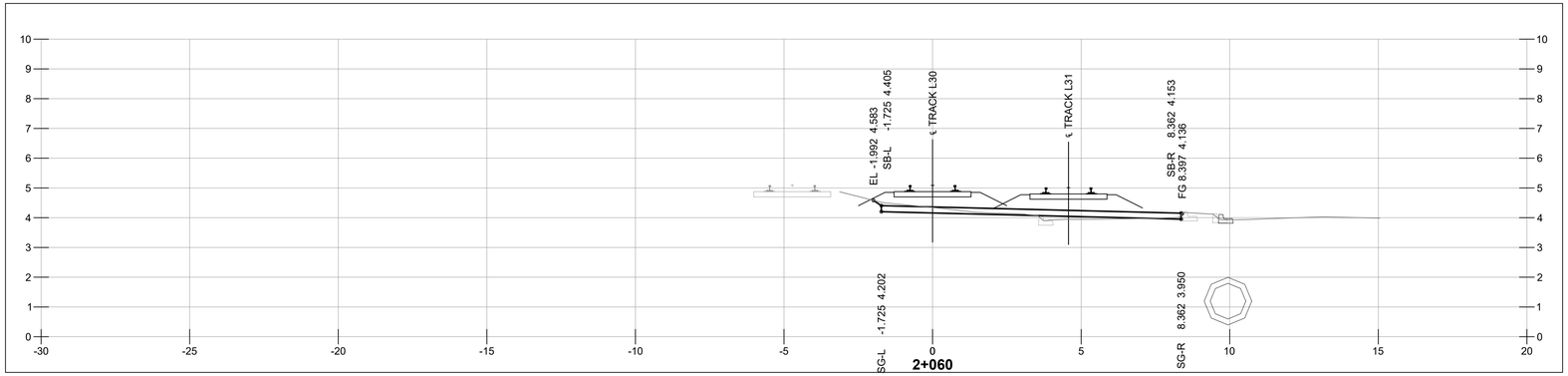
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 2+000 & STA 2+020

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-7046	Rev. A

Aug 03 , 2021 , 9:20am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

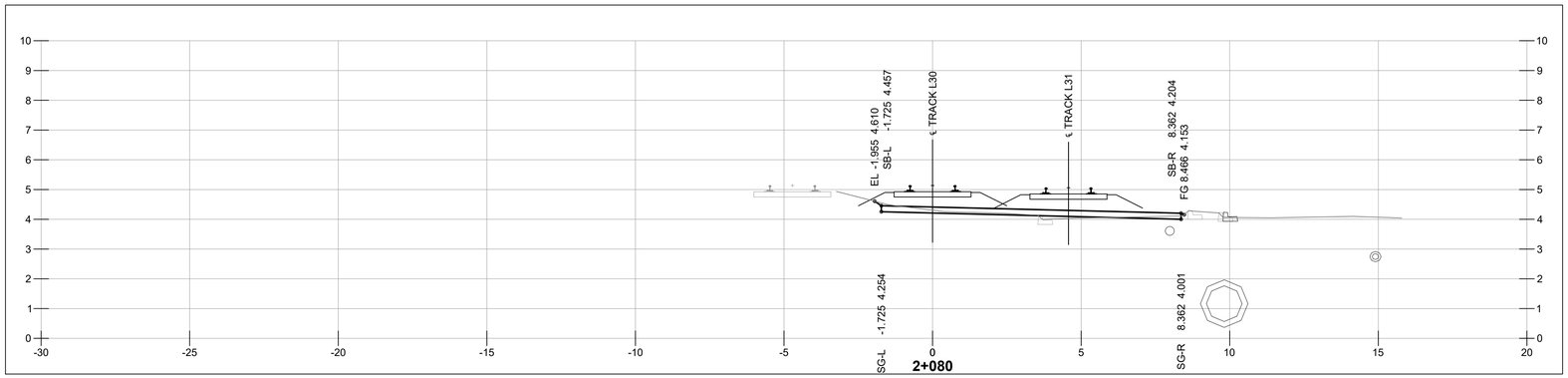
ENGINEERING PROJECTS - WEST

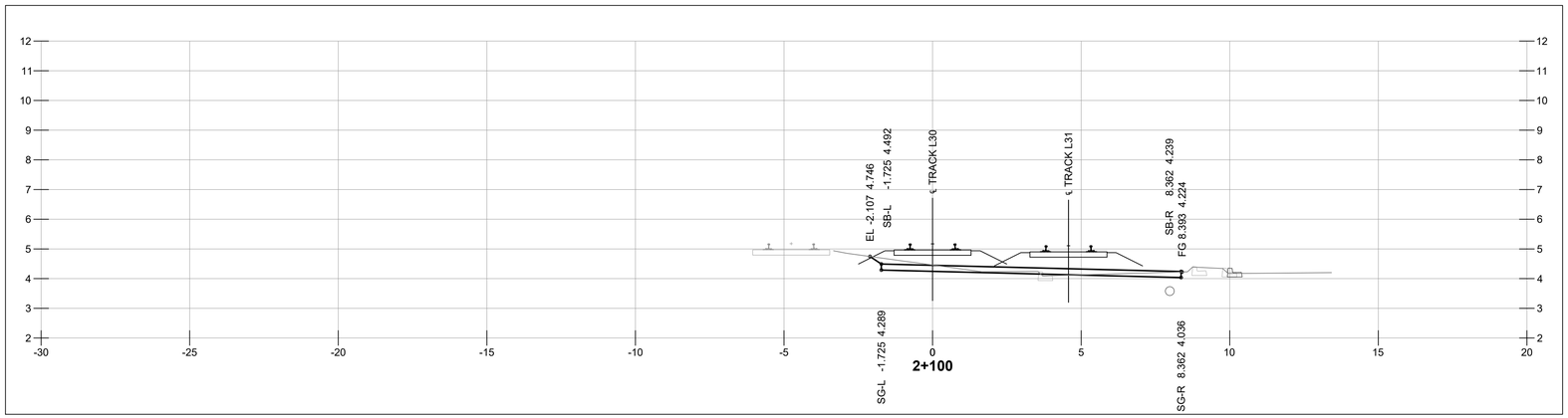
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 2+040 & STA 2+060

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7047 Rev. A

Aug 03 , 2021 , 9:20am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

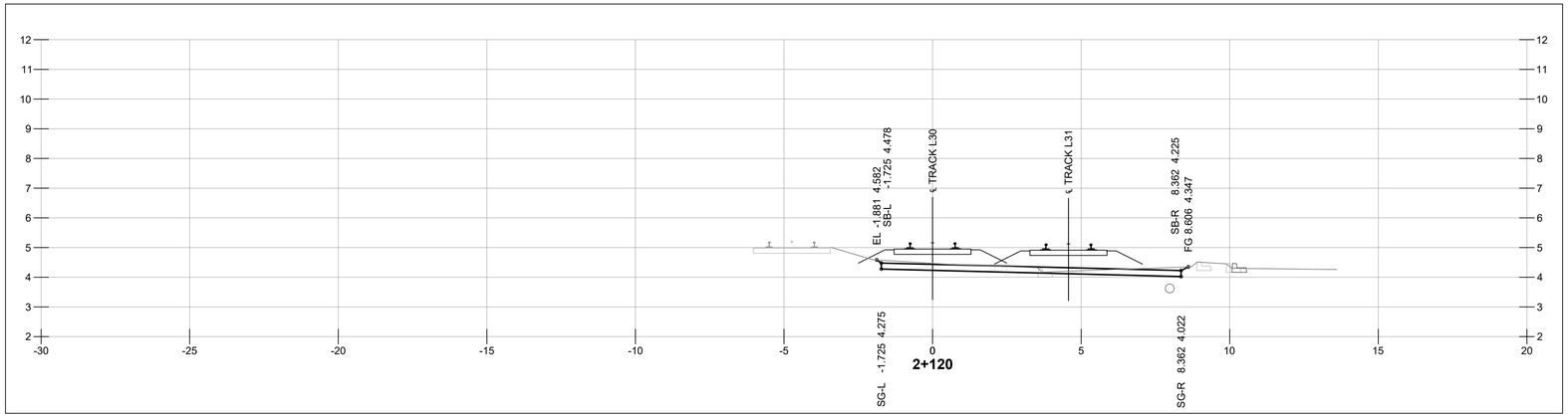
ENGINEERING PROJECTS - WEST

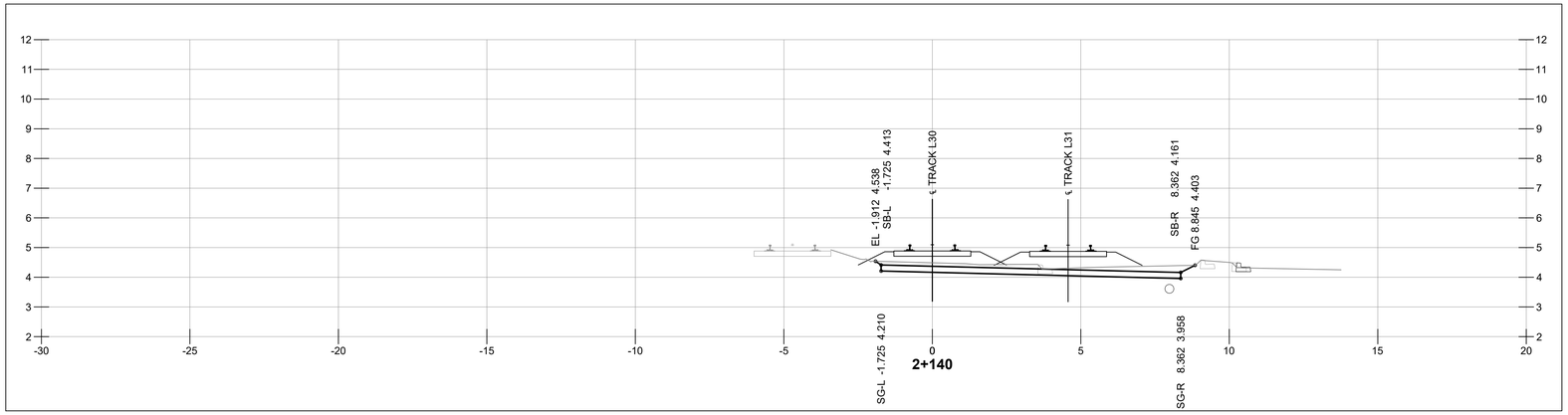
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 2+080 & STA 2+100

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7048 Rev. A

Aug 03 , 2021 , 9:20am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

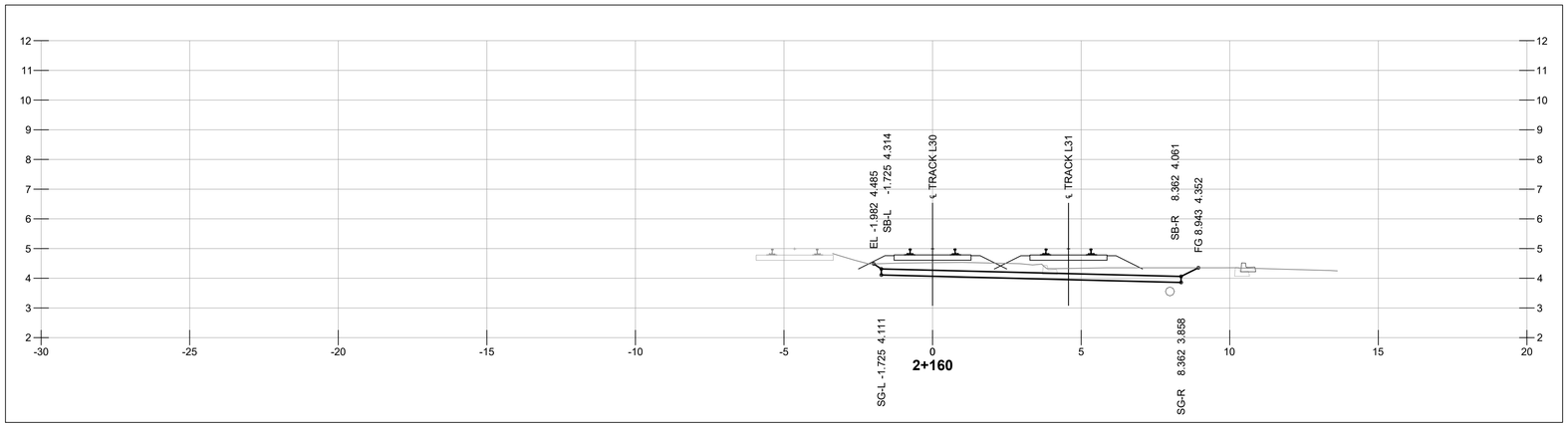
ENGINEERING PROJECTS - WEST

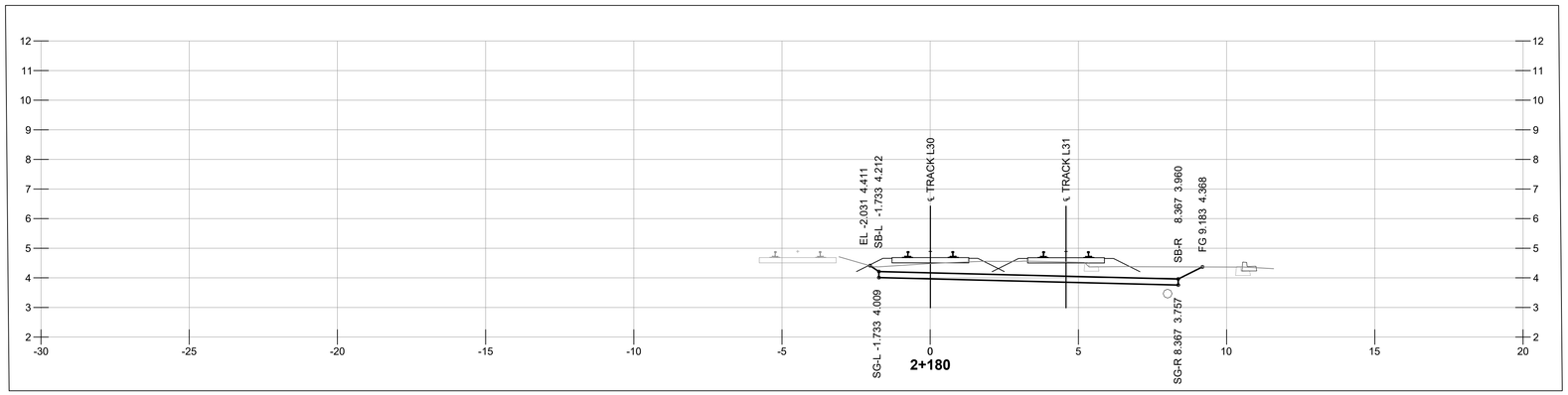
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 2+120 & STA 2+140

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7049 Rev. A

Aug 03 , 2021 , 9:21am Login name: shob11128
Drawing Name: C:\pwworking\hl\posha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

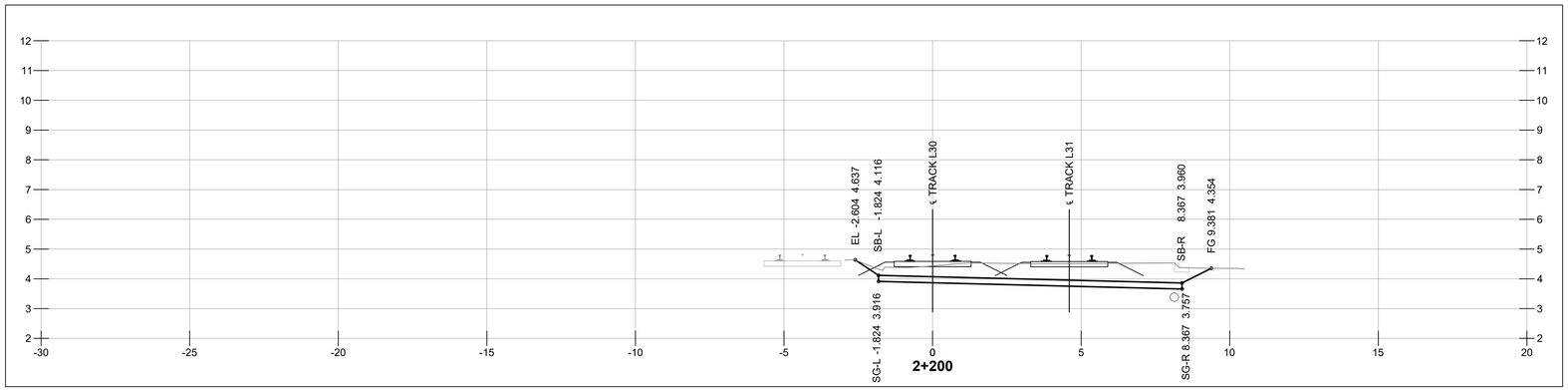
ENGINEERING PROJECTS - WEST

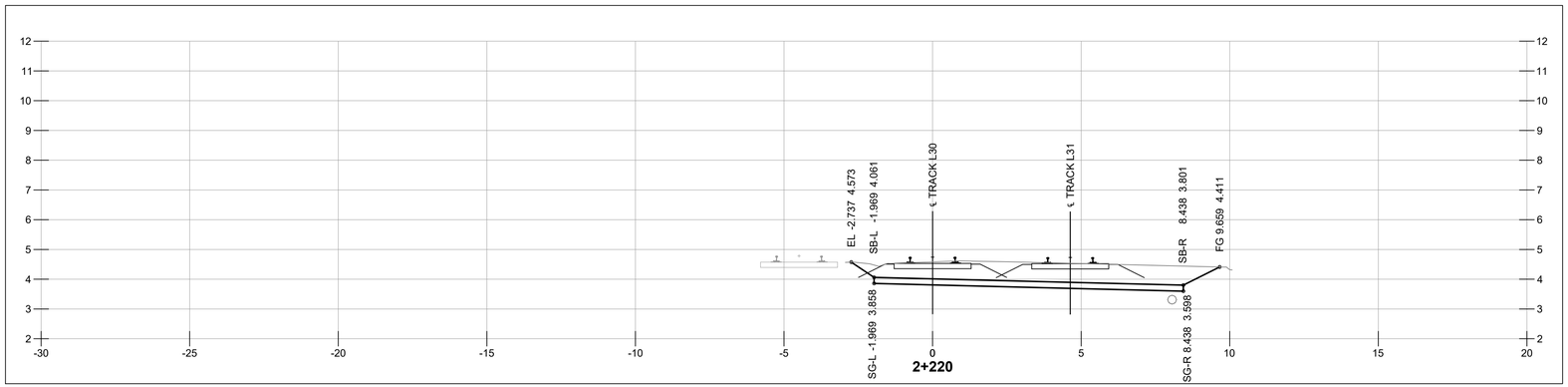
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 2+160 & STA 2+180

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7050 Rev. A

Aug 03 , 2021 , 9:21am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

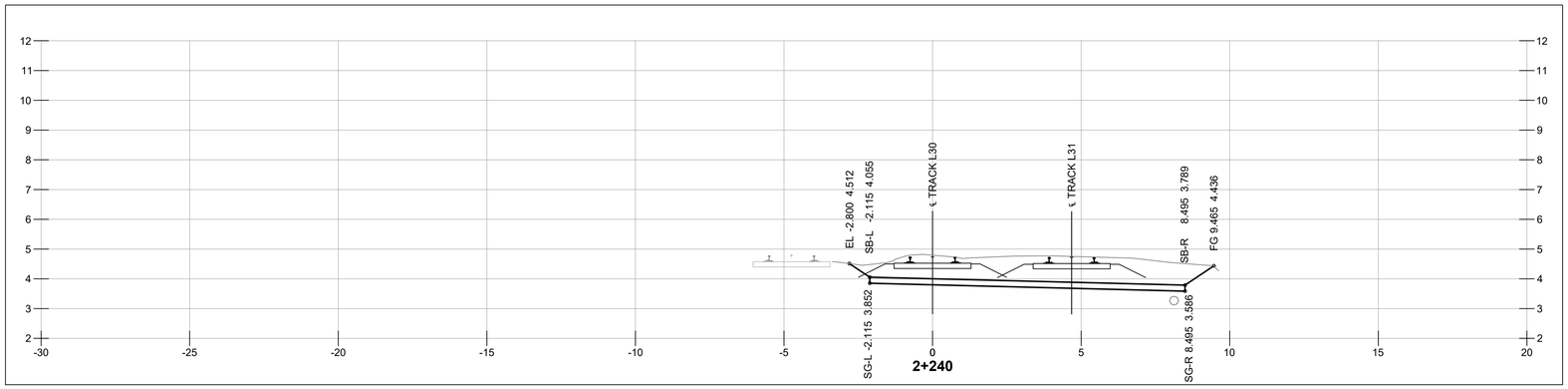
ENGINEERING PROJECTS - WEST

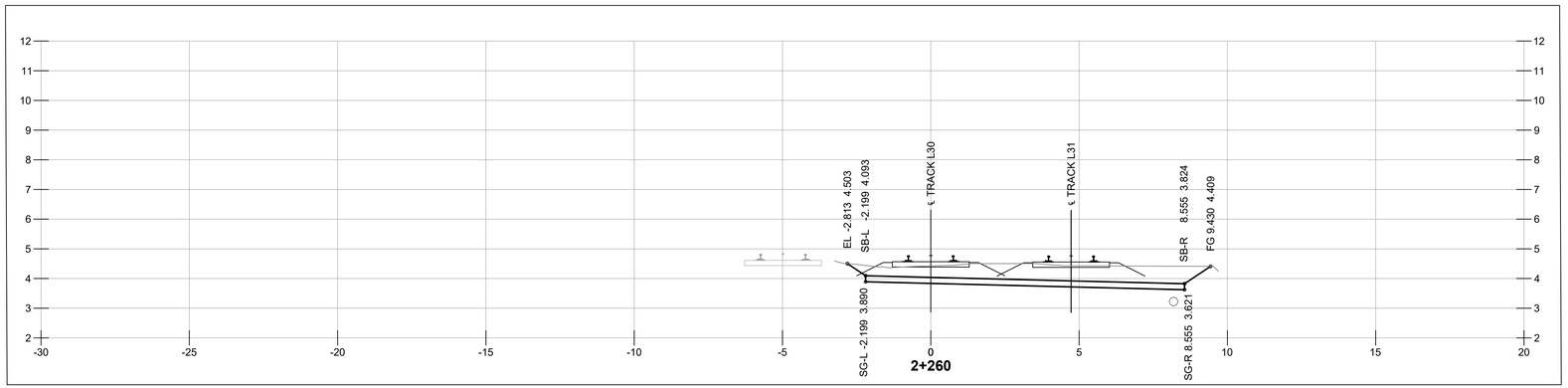
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 2+200 & STA 2+220

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7051 Rev. A

Aug 03 , 2021 , 9:21am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

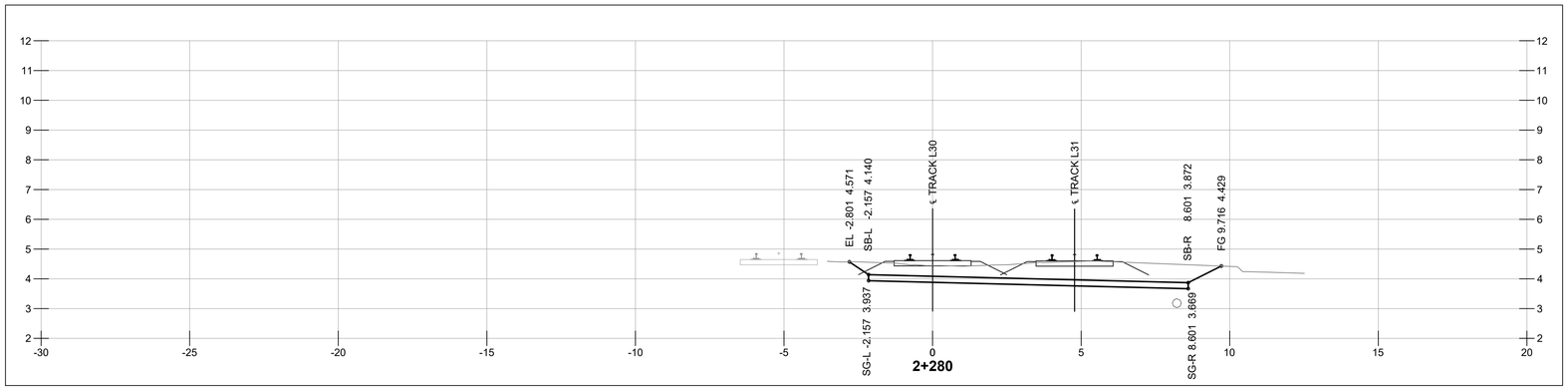
ENGINEERING PROJECTS - WEST

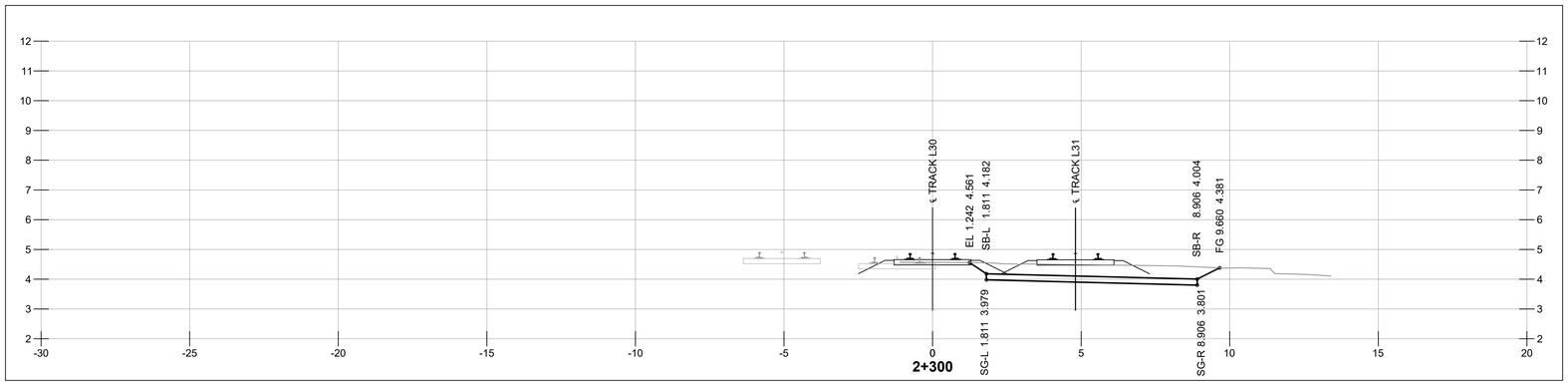
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 2+240 & STA 2+260

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7052 Rev. A

Aug 03 , 2021 , 9:21am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.D.

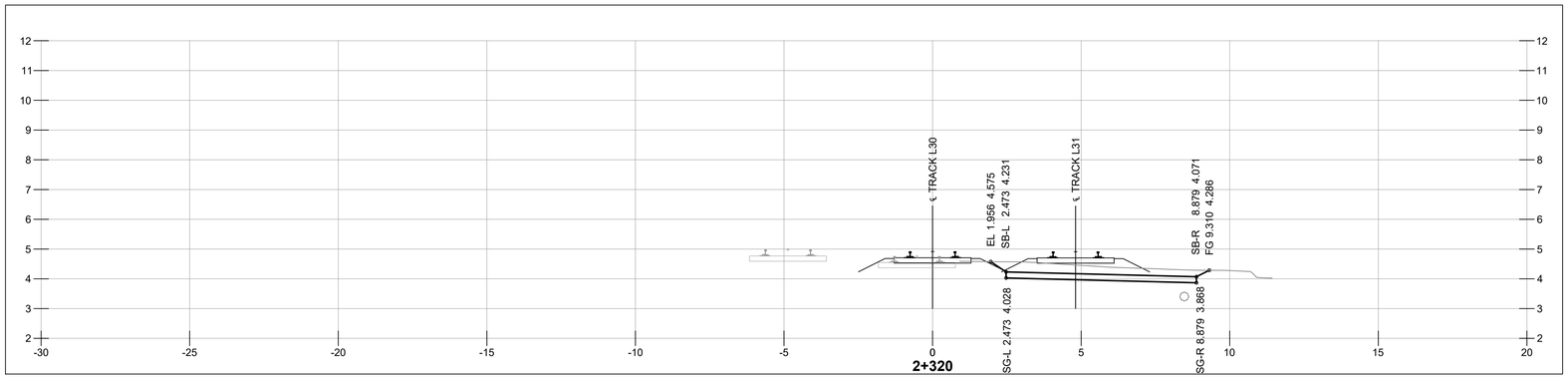
ENGINEERING PROJECTS - WEST

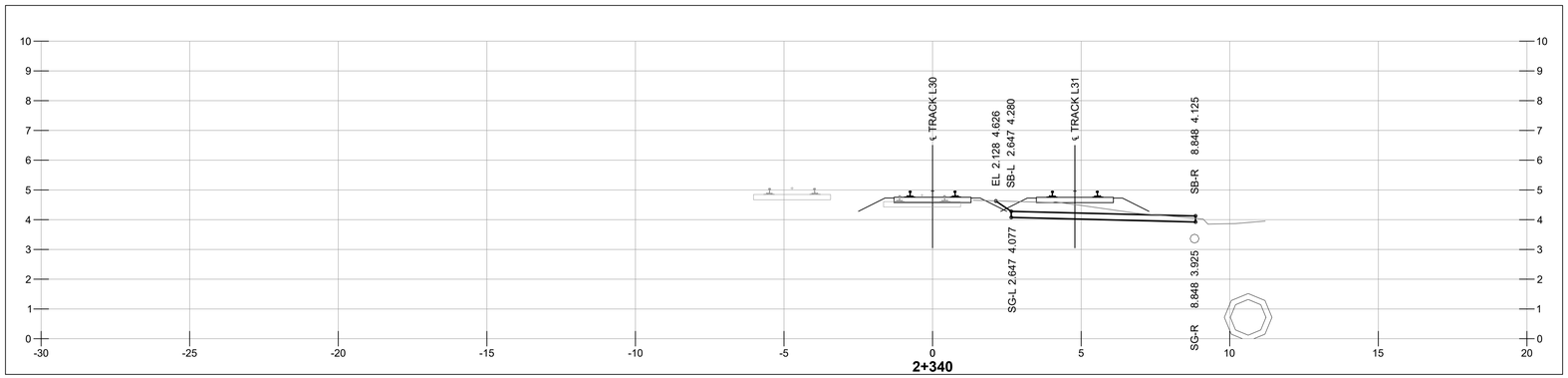
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 2+280 & STA 2+300

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7053 Rev. A

Aug 03 , 2021 , 9:21am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

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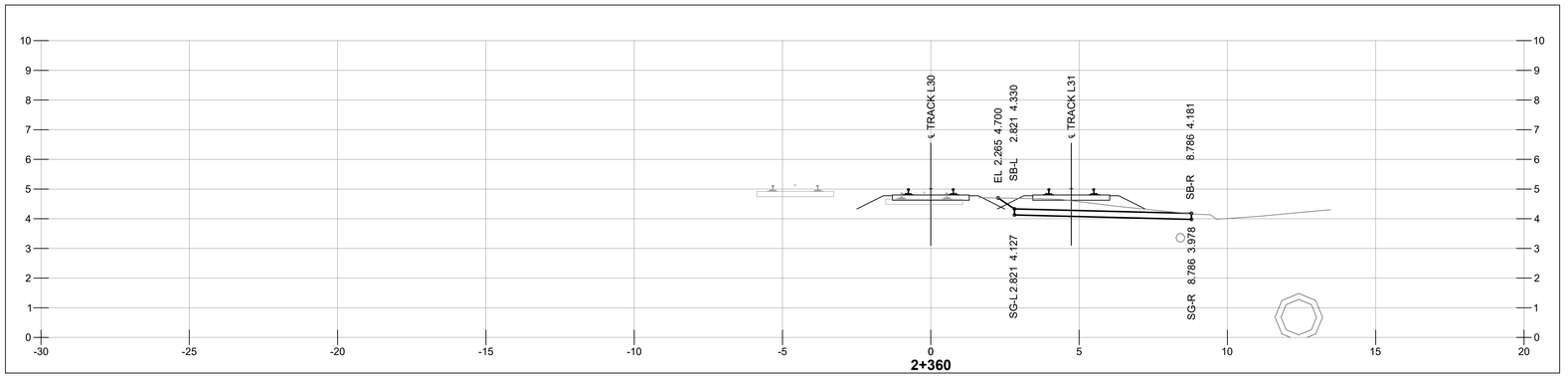
ENGINEERING PROJECTS - WEST

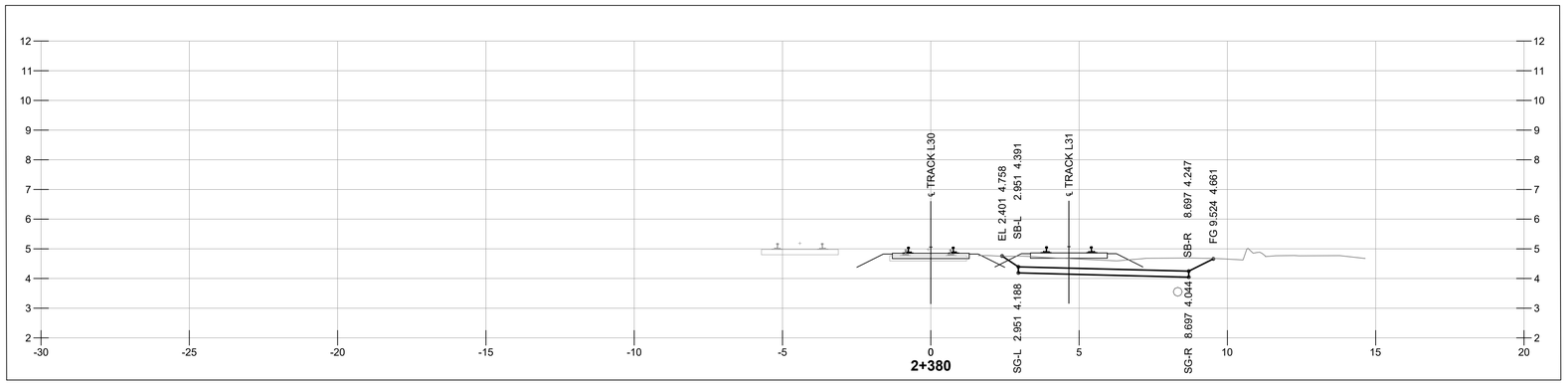
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 2+320 & STA 2+340

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7054 Rev. A

Aug 03 , 2021 , 9:22am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

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DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

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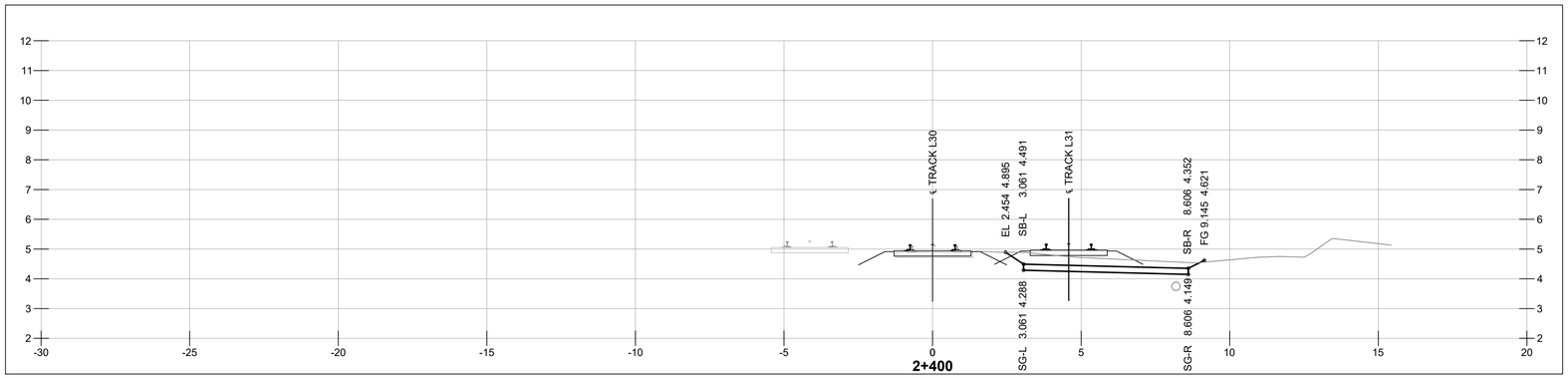
ENGINEERING PROJECTS - WEST

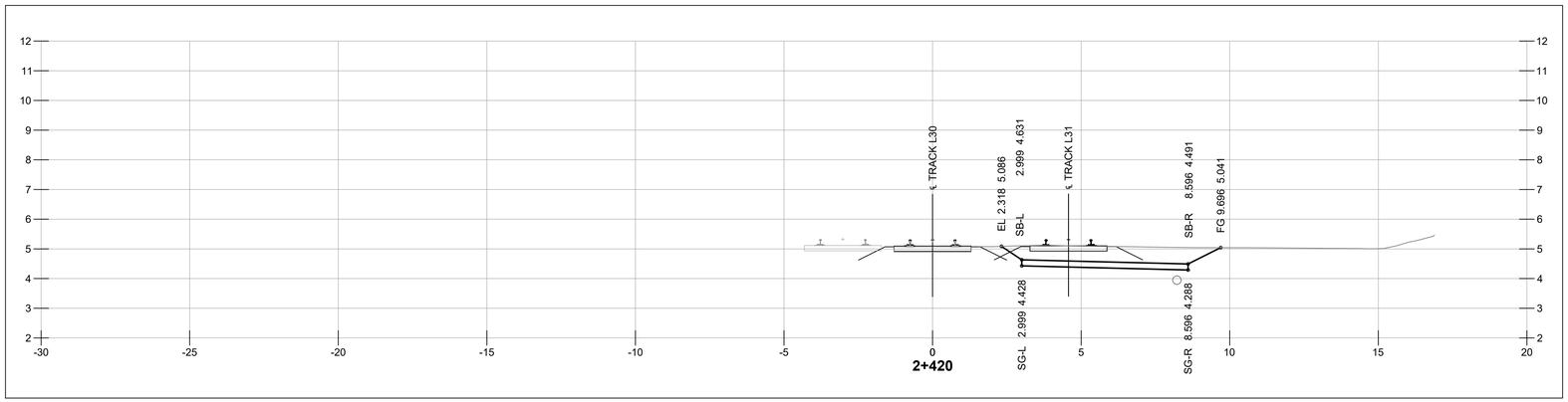
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 2+360 & STA 2+380

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7055 Rev. A

Aug 03 , 2021 , 9:22am Login name: shob11128
Drawing Name: C:\pwworking\h\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

METRIC
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DESIGNED BY: **F.D.** DATE: **03-08-21**	DRAWN BY: **P.S.** DATE: **03-08-21**
CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

PROFESSIONAL SEALS

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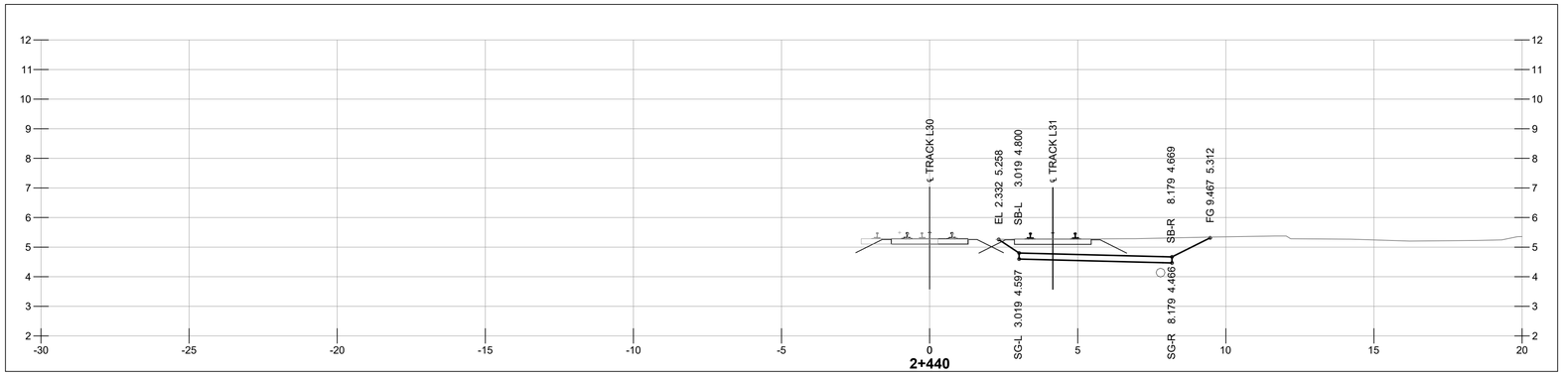
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 2+400 & STA 2+420

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7056 Rev. A

Aug 03 , 2021 , 9:22am Login name: shob11128
Drawing Name: C:\pwworking\h\\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg



NOT FOR CONSTRUCTION

1 m 0 1:100 5 m

HATCH

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CHECKED BY: **V.C.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **1:100**

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CP

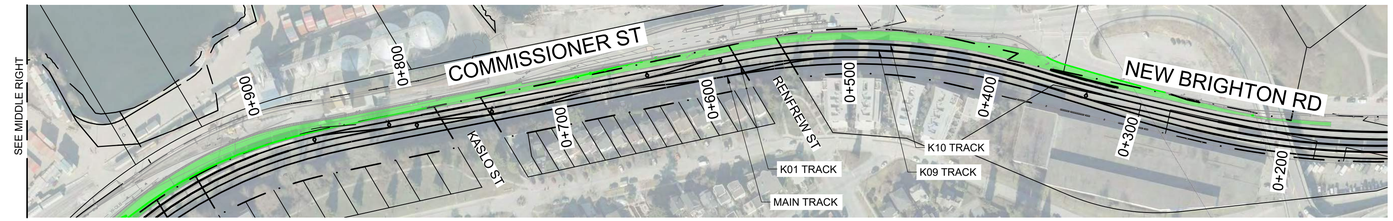
ENGINEERING PROJECTS - WEST

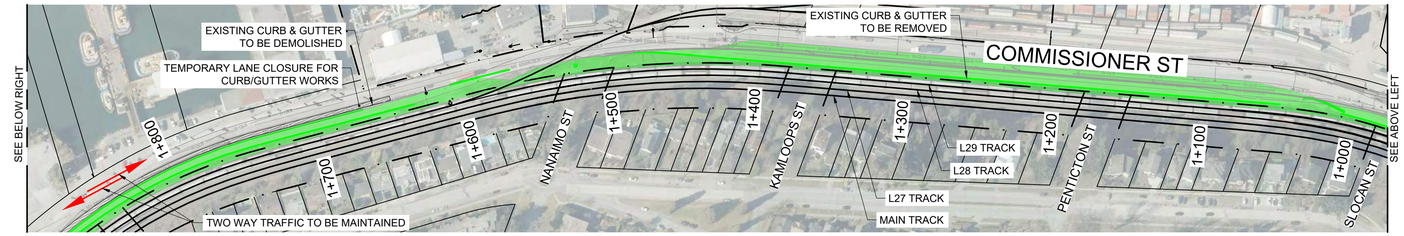
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

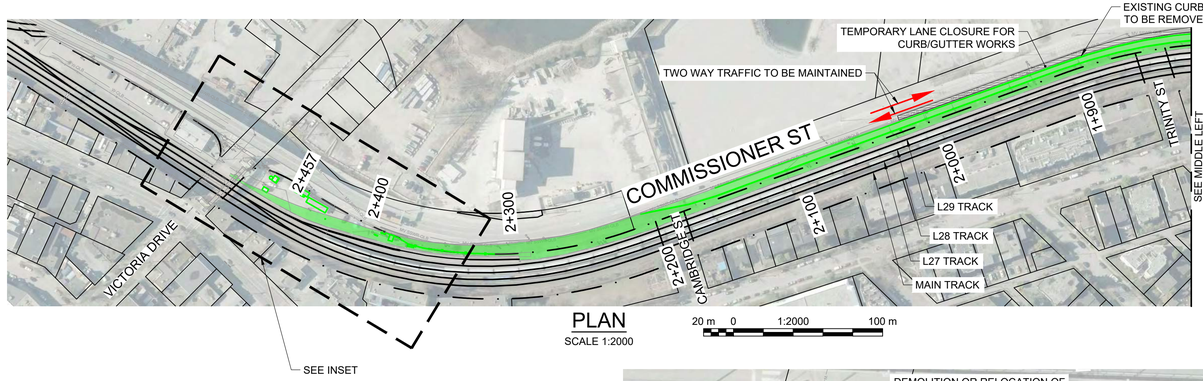
EAST L YARD EXPANSION
RAIL - GRADING SECTIONS
STA 2+440

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-7057 Rev. A

Aug 03 , 2021 , 9:22am Login name: shob11128
Drawing Name: C:\pwworking\h\\pasha.shobeiri@hatch.com\d0694048\H362376-RW-100-S0-7000 to 7057.dwg





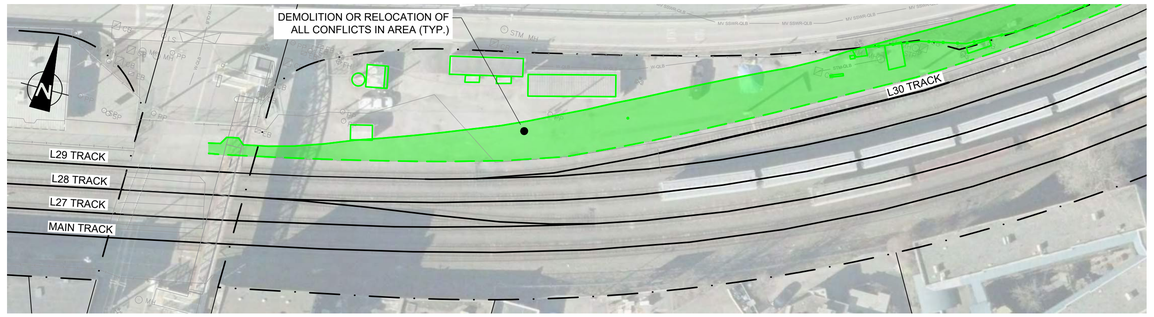


TO VANCOUVER

FROM PORT COQUITLAM

PLAN
SCALE 1:2000

20 m 0 1:2000 100 m



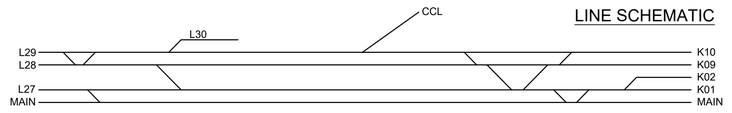
INSET
SCALE 1:500

5 m 0 1:500 25 m

STAGE 1 - REMOVALS STAGE

CONSTRUCTION:	CURB, GUTTER, PAVEMENT, MEDIAN CURB, RAIL YARD EQUIPMENT, SIGNAGE AND UTILITY REMOVALS (INCL. EXISTING STORM SEWERS); INSTALL SETTLEMENT GAUGES ON METRO VANCOUVER COMBINED SEWER
DURATION:	8 WEEKS
STATIONING:	STA 0+091.670 TO STA 2+426.450 ON TRACK K10/L30
TRACK BLOCK:	N/A
ROAD BLOCK:	PARTIALLY BLOCKED ON COMMISSIONER ST FOR CURB AND GUTTER DEMOLITION (TWO-WAY TRAFFIC TO BE MAINTAINED)

LINE SCHEMATIC



NOT FOR CONSTRUCTION

NOTES:

1. FOR DWG H36376-RW-100-S0-8010 TO 8091, STATIONING IS FOR K10/L30 TRACK UNLESS STATED OTHERWISE.

LEGEND

- NEW CONSTRUCTION
- AS CONSTRUCTED
- EXISTING
- TO BE REMOVED
- TO BE REALIGNED
- COMPLETED GRADING & DRAINAGE

LINE SCHEMATIC LEGEND

- PROPOSED TRACK (IN SERVICE)
- PROPOSED TRACK (NOT IN SERVICE)
- EXISTING TRACK (IN SERVICE)
- EXISTING TRACK (NOT IN SERVICE)

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **07-06-21**	DRAWN BY: **N.H.** DATE: **07-06-21**
CHECKED BY: **V.C.** DATE: **07-06-21**	PROJECT MANAGER: **I.M.** DATE: **07-06-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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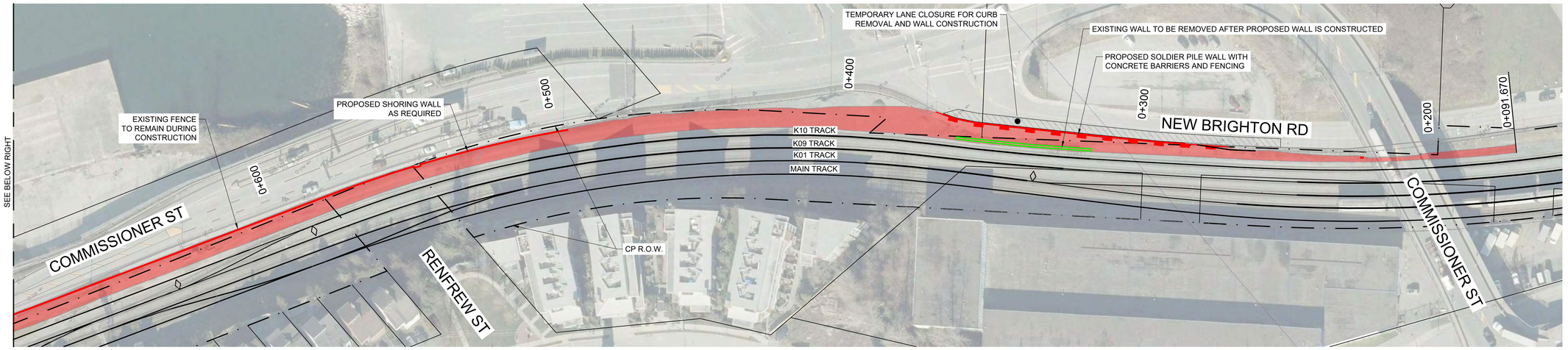
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION STAGING PLAN - STAGE 1 REMOVALS

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-8010 Rev. A

Aug 03 , 2021 - 4:17pm Login name: HOOJ90027
Drawing Name: C:\pwworking\rh\hoqj90027\d0694048\H362376-RW-100-S0-8010 to 8091.dwg



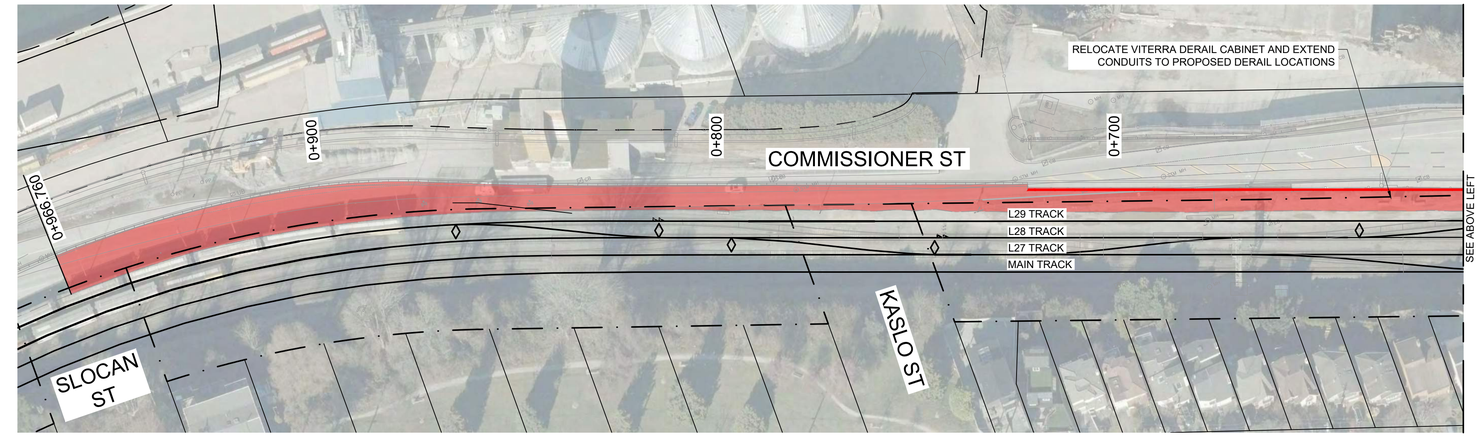
PLAN

SCALE 1:750

TO VANCOUVER

FROM PORT COQUITLAM

10 m 0 1:750 40 m



KEY PLAN

SCALE 1:10000

100 m 0 1:10000 500 m

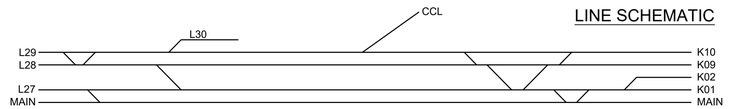
STAGE 2 - GRADING, DRAINAGE AND WALL INSTALLATION

PART A: GRADING, DRAINAGE AND WALL INSTALLATION FROM START OF PROJECT TO STA. 0+930 ON PROPOSED TRACK L30

CONSTRUCTION:	GRADING AND DRAINAGE WORK; EXISTING WALL/CURB REMOVAL AND CONSTRUCT PROPOSED SOLDIER PILE WALL WITH CONCRETE BARRIERS AND FENCE SHORING ADJACENT TO EXISTING FENCE
DURATION:	7 WEEKS
STATIONING:	STA 0+091.67 TO STA 0+966.760 ON TRACK K10/L30
TRACK BLOCK:	0
ROAD BLOCK:	NEW BRIGHTON ROAD PARTIALLY CLOSED FOR EXISTING CURB DEMO AND PROPOSED WALL INSTALLATION (APPROX. 6 WEEKS) TWO-WAY TRAFFIC OUTSIDE OF WORK HOURS

NOT FOR CONSTRUCTION

LINE SCHEMATIC



LEGEND

NEW CONSTRUCTION
AS CONSTRUCTED
EXISTING
TO BE REMOVED
TO BE REALIGNED
COMPLETED GRADING & DRAINAGE

LINE SCHEMATIC LEGEND

PROPOSED TRACK (IN SERVICE)
PROPOSED TRACK (NOT IN SERVICE)
EXISTING TRACK (IN SERVICE)
EXISTING TRACK (NOT IN SERVICE)

HATCH

METRIC
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DESIGNED BY: **F.D.** DATE: **07-06-21**	DRAWN BY: **N.H.** DATE: **07-06-21**
CHECKED BY: **V.C.** DATE: **07-06-21**	PROJECT MANAGER: **I.M.** DATE: **07-06-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

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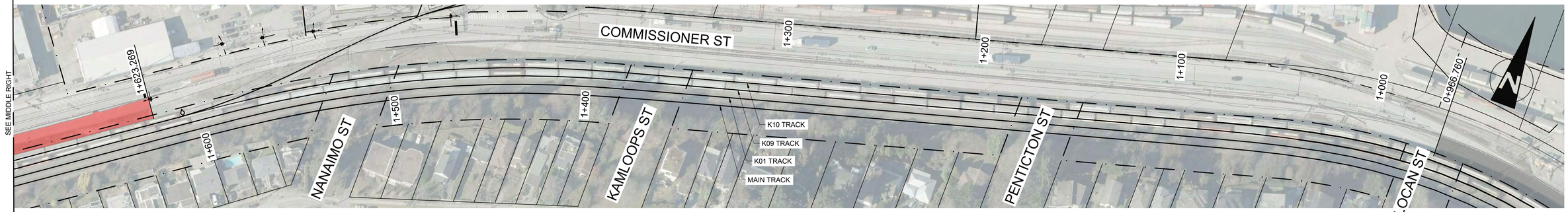
CP
ENGINEERING PROJECTS - WEST

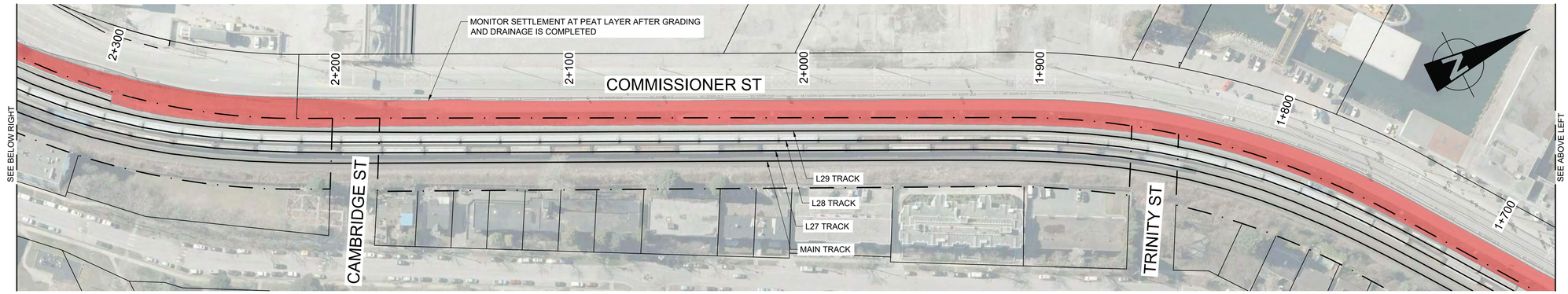
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

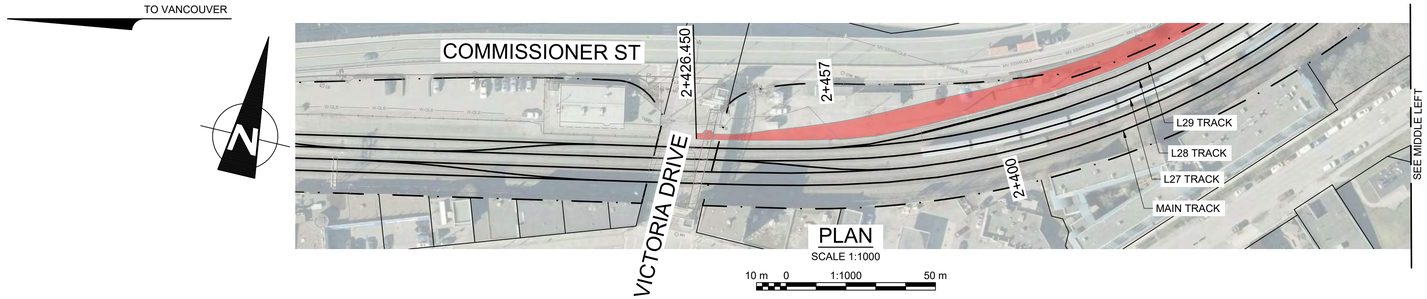
EAST L YARD EXPANSION STAGING PLAN - STAGE 2 PART A: K10 GRADING

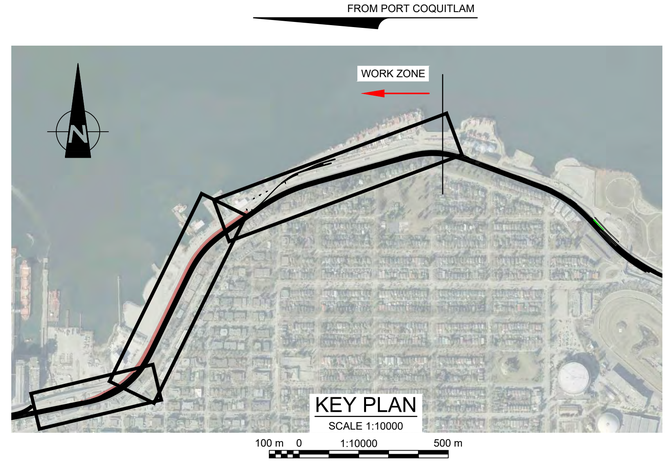
DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-8020	Rev. A

Aug 03 , 2021 , 4:17pm Login name: HOUJ90027
Drawing Name: C:\pwworking\hi\houj90027\d0694048\H362376-RW-100-S0-8010 to 8091.dwg







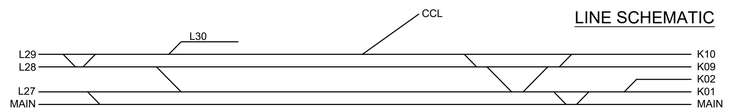


STAGE 2 - GRADING, DRAINAGE AND WALL INSTALLATION

PART B: GRADING, DRAINAGE AND WALL INSTALLATION FROM STA. 0+930 ON PROPOSED TRACK L30 TO END OF PROJECT

CONSTRUCTION:	GRADING AND DRAINAGE WORK (EXCLUDING CCL TRACK AREA); MONITOR PEAT LAYER
DURATION:	6 WEEKS
STATIONING:	STA 1+623.269 TO STA 2+426.450 ON TRACK K10/L30
TRACK BLOCK:	0
ROAD BLOCK:	0

LINE SCHEMATIC



NOT FOR CONSTRUCTION

LEGEND

- NEW CONSTRUCTION
- AS CONSTRUCTED
- EXISTING
- TO BE REMOVED
- TO BE REALIGNED
- COMPLETED GRADING & DRAINAGE

LINE SCHEMATIC LEGEND

- PROPOSED TRACK (IN SERVICE)
- PROPOSED TRACK (NOT IN SERVICE)
- EXISTING TRACK (IN SERVICE)
- EXISTING TRACK (NOT IN SERVICE)

HATCH

METRIC
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CHECKED BY: **V.C.** DATE: **07-06-21**	PROJECT MANAGER: **I.M.** DATE: **07-06-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	N.H.

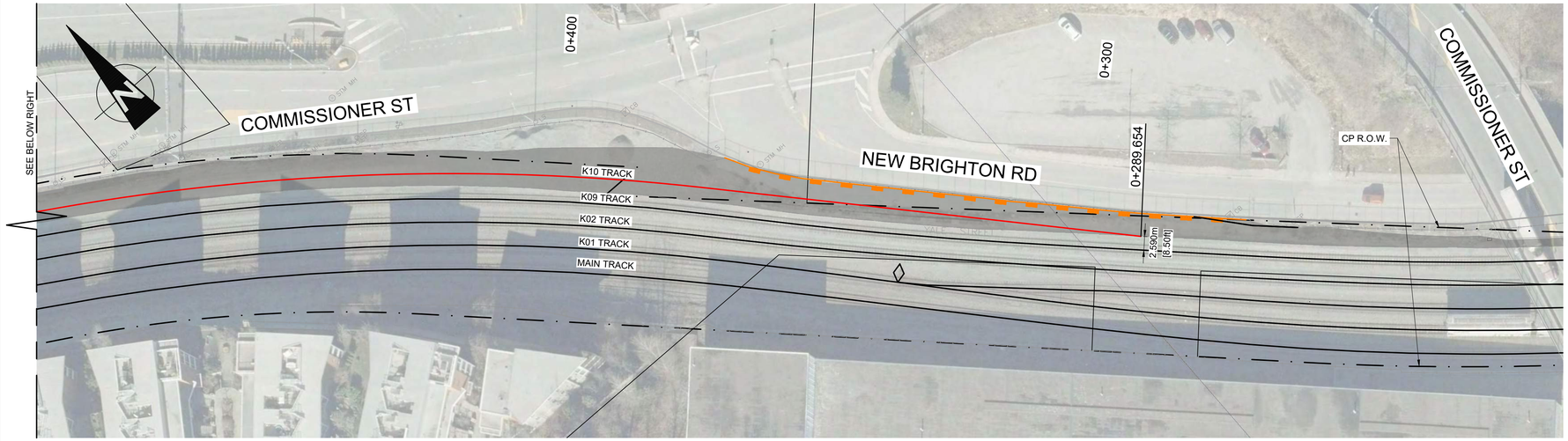
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
STAGING PLAN - STAGE 2
PART B: L30 & L31 GRADING

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE:
	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-8021
	Rev. A

Aug 03 , 2021 , 4:18pm Login name: HOOJ80027
Drawing Name: C:\pwworking\nh\hoqu80027\d0694048\H362376-RW-100-S0-8010 to 8091.dwg



PLAN
SCALE 1:500

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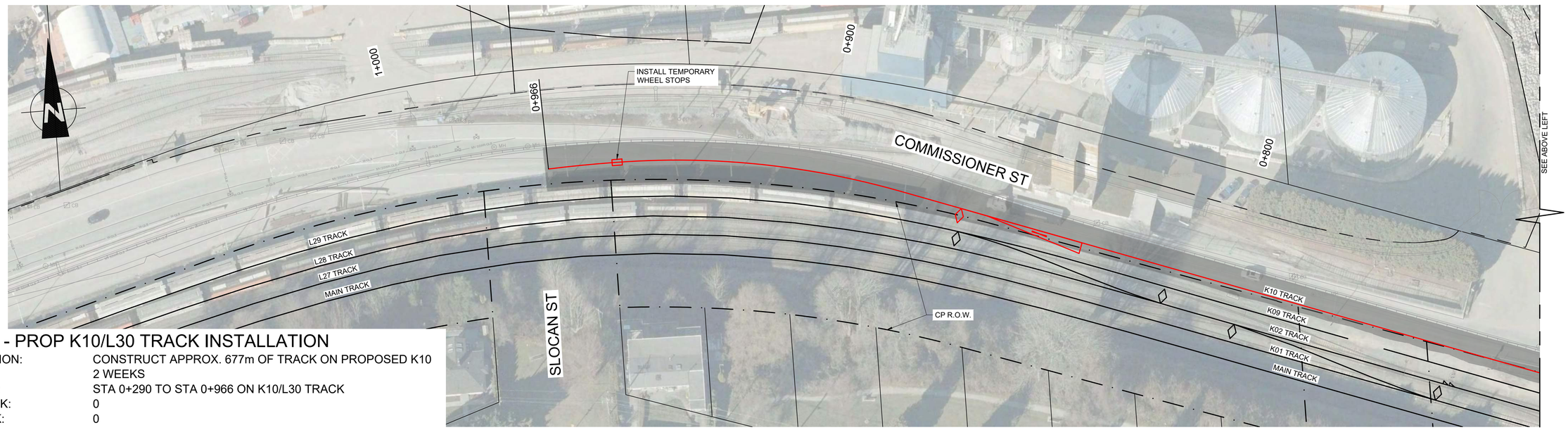
100 m 0 1:10000

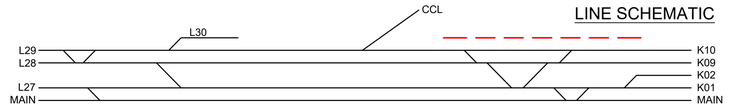
FROM PORT COQUITLAM



STAGE 3 - PROP K10/L30 TRACK INSTALLATION

CONSTRUCTION:	CONSTRUCT APPROX. 677m OF TRACK ON PROPOSED K10
DURATION:	2 WEEKS
STATIONING:	STA 0+290 TO STA 0+966 ON K10/L30 TRACK
TRACK BLOCK:	0
ROAD BLOCK:	0

LINE SCHEMATIC



NOT FOR CONSTRUCTION

LEGEND

NEW CONSTRUCTION
AS CONSTRUCTED
EXISTING
TO BE REMOVED
TO BE REALIGNED
COMPLETED GRADING & DRAINAGE

LINE SCHEMATIC LEGEND

PROPOSED TRACK (IN SERVICE)
PROPOSED TRACK (NOT IN SERVICE)
EXISTING TRACK (IN SERVICE)
EXISTING TRACK (NOT IN SERVICE)

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: F.D. DATE: 07-06-21	DRAWN BY: N.H. DATE: 07-06-21
CHECKED BY: V.C. DATE: 07-06-21	PROJECT MANAGER: I.M. DATE: 07-06-21
HATCH PROJECT No: H362376	DWG SCALE(FULL SIZE): AS SHOWN

PROFESSIONAL SEALS

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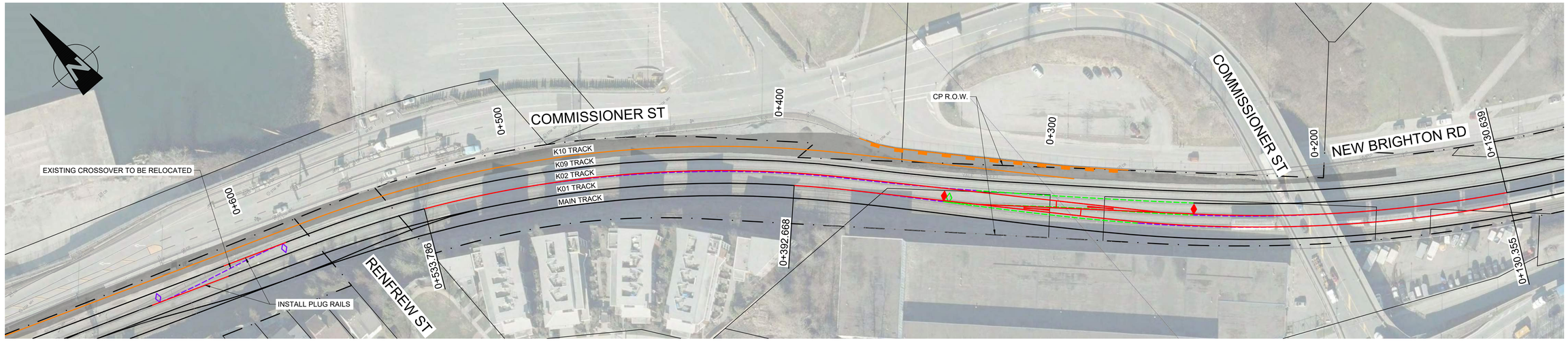
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION STAGING PLAN - STAGE 3 K10 CONSTRUCTION

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE:
M.FAVREAU DIR. PROJECT SERVICES WEST	DATE:
	PLAN No.: H362376-RW-100-S0-8030
	Rev.: A

Aug 03 , 2021 , 4:18pm Login name: HOOU800027
Drawing Name: C:\pwworking\hi\hoqu800027\d0694048\H362376-RW-100-S0-8010 to 8091.dwg



PLAN
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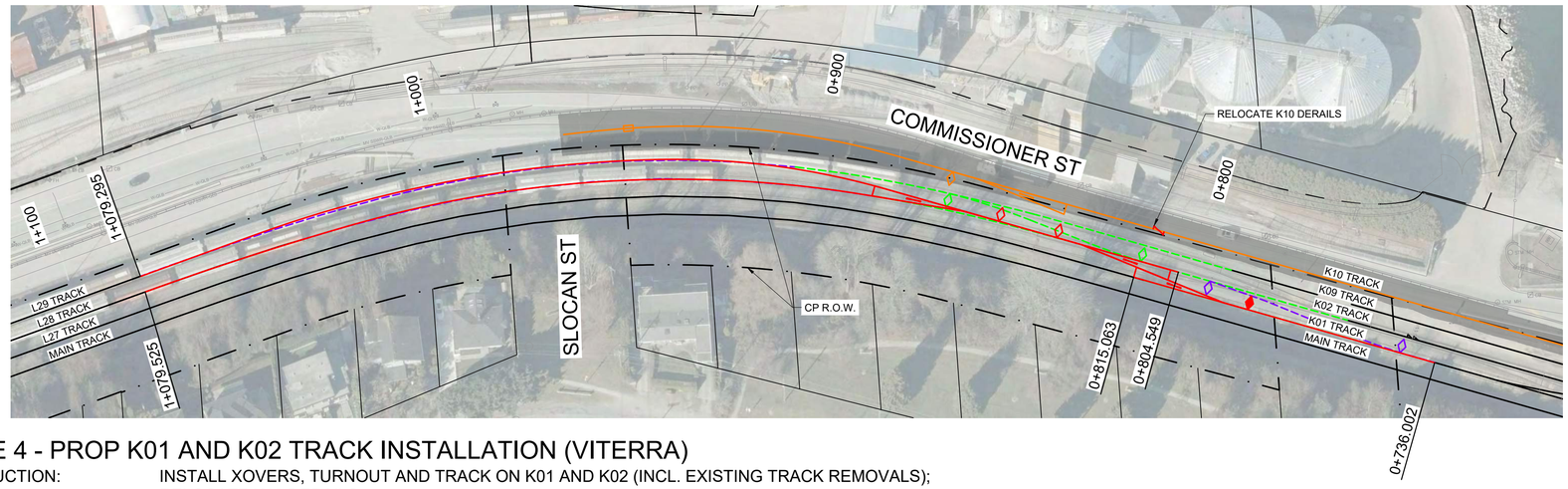
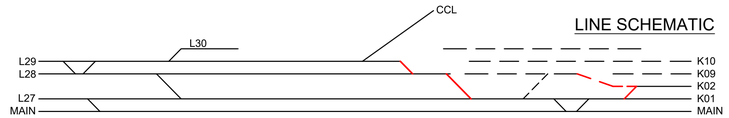


STAGE 4 - PROP K01 AND K02 TRACK INSTALLATION (VITERRA)

CONSTRUCTION:	INSTALL XOVERS, TURNOUT AND TRACK ON K01 AND K02 (INCL. EXISTING TRACK REMOVALS); RELOCATE K10 DERAILS
DURATION:	3 DAYS
STATIONING:	STA 0+130.355 TO STA 0+502.774 AND STA 0+736.002 TO STA 1+079.247 ON K10/L30 TRACK
TRACK BLOCK:	20 HOURS (10 HOURS PER CROSSOVER INSTALL) ON K02 AND K01; 6 HOURS FOR TURNOUT INSTALL ON K02 AND K09
ROAD BLOCK:	0
WORK HOURS:	12AM-12AM

NOT FOR CONSTRUCTION

LINE SCHEMATIC



LEGEND

- NEW CONSTRUCTION
- AS CONSTRUCTED
- EXISTING
- TO BE REMOVED
- TO BE REALIGNED
- COMPLETED GRADING & DRAINAGE

LINE SCHEMATIC LEGEND

- PROPOSED TRACK (IN SERVICE)
- PROPOSED TRACK (NOT IN SERVICE)
- EXISTING TRACK (IN SERVICE)
- EXISTING TRACK (NOT IN SERVICE)

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: F.D. DATE: 07-06-21	DRAWN BY: N.H. DATE: 07-06-21
CHECKED BY: V.C. DATE: 07-06-21	PROJECT MANAGER: I.M. DATE: 07-06-21
HATCH PROJECT No: H362376	DWG SCALE(FULL SIZE): AS SHOWN

PROFESSIONAL SEALS

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CP

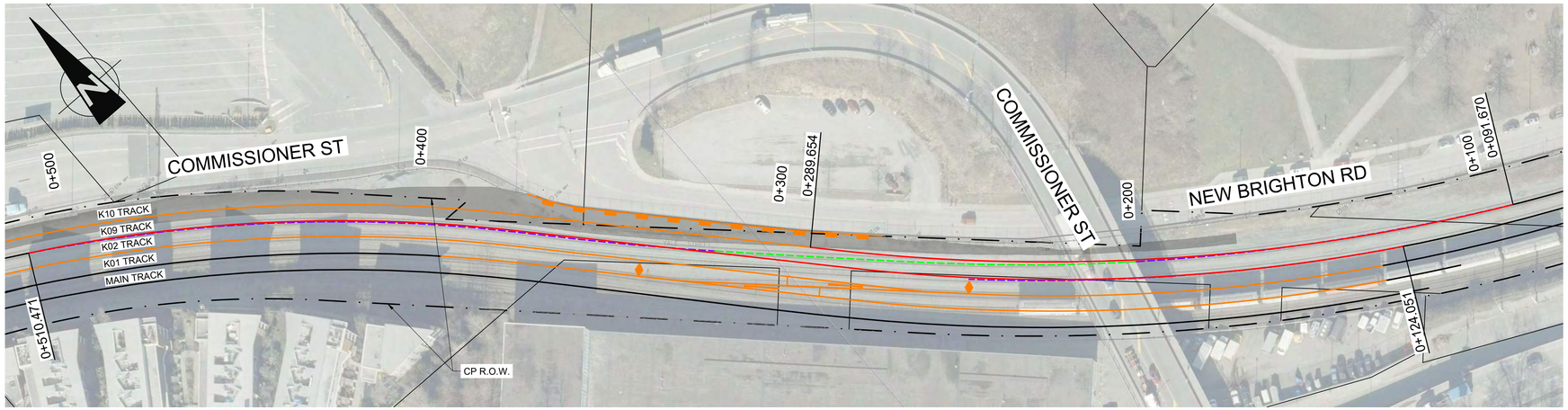
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
STAGING PLAN - STAGE 4
TRACK SHIFT - K01 & K02 SHIFT

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE: DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No.: H362376-RW-100-S0-8040 Rev.: A

Aug 03 , 2021 - 4:19pm Login name: HOOJ80027
Drawing Name: C:\pwworking\h\hoqu80027\d0694048\H362376-RW-100-S0-8010 to 8091.dwg



PLAN
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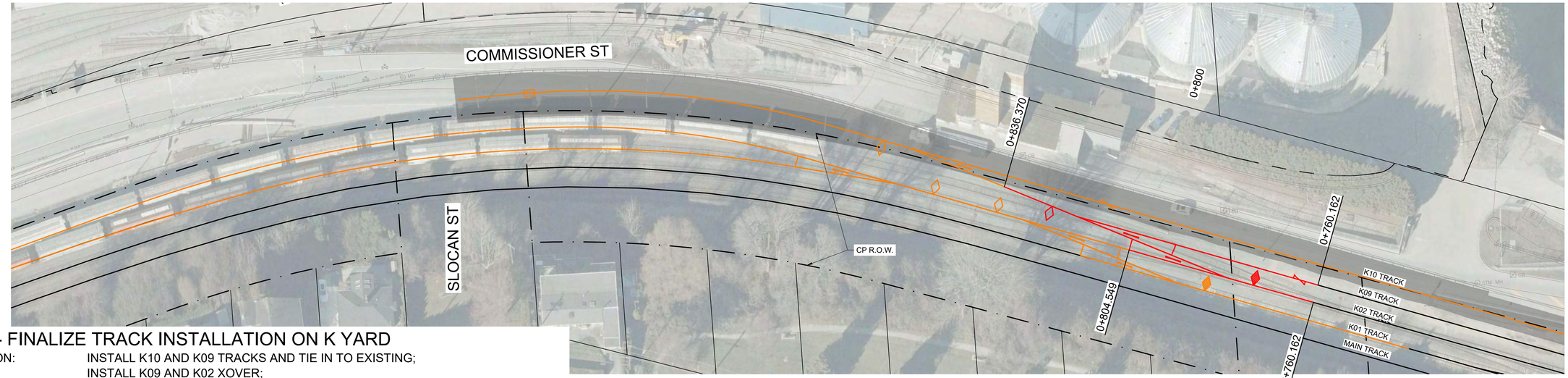
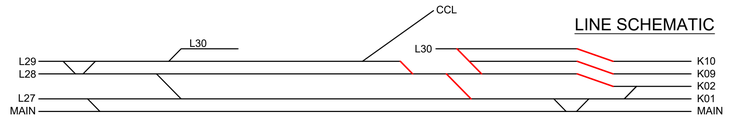


PLAN
SCALE 1:500
5 m 0 1:500 25 m

STAGE 5 - FINALIZE TRACK INSTALLATION ON K YARD

CONSTRUCTION:	INSTALL K10 AND K09 TRACKS AND TIE IN TO EXISTING; INSTALL K09 AND K02 XOVER; INSTALL DERAILS ON PROP K09 TRACK
DURATION:	4 DAYS
STATIONING:	STA 0+091.67 TO STA 0+290 AND STA 0+760.162 TO STA 0+833.716 ON K10 TRACK
TRACK BLOCK:	8 HOURS FOR K02
ROAD BLOCK:	0
WORK HOURS:	12AM-12AM

LINE SCHEMATIC



NOT FOR CONSTRUCTION

LEGEND

- NEW CONSTRUCTION
- AS CONSTRUCTED
- EXISTING
- TO BE REMOVED
- TO BE REALIGNED
- COMPLETED GRADING & DRAINAGE

LINE SCHEMATIC LEGEND

- PROPOSED TRACK (IN SERVICE)
- PROPOSED TRACK (NOT IN SERVICE)
- EXISTING TRACK (IN SERVICE)
- EXISTING TRACK (NOT IN SERVICE)

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **07-06-21**	DRAWN BY: **N.H.** DATE: **07-06-21**
CHECKED BY: **V.C.** DATE: **07-06-21**	PROJECT MANAGER: **I.M.** DATE: **07-06-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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CP

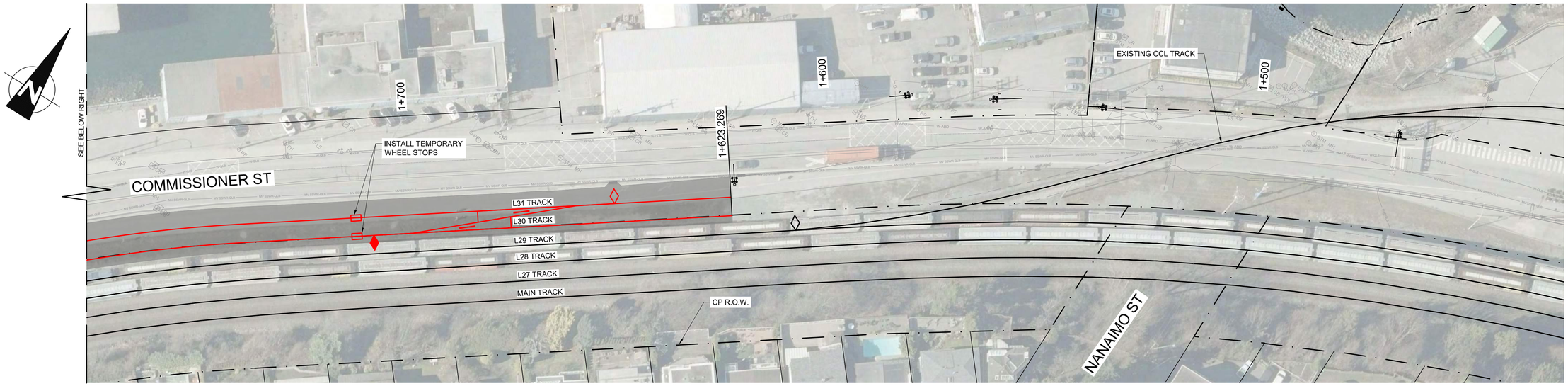
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
STAGING PLAN - STAGE 5
TRACK SHIFT - K09 & K10 SHIFT

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE:
M.FAVREAU DIR, PROJECT SERVICES WEST	DATE:
	PLAN No. H362376-RW-100-S0-8050
	Rev. A

Aug 03 , 2021 , 4:19pm Login name: H00J90027
Drawing Name: C:\pwworking\hi\hooj90027\d0694048\H362376-RW-100-S0-8010 to 8091.dwg



TO VANCOUVER

FROM PORT COQUITLAM

PLAN

SCALE 1:500

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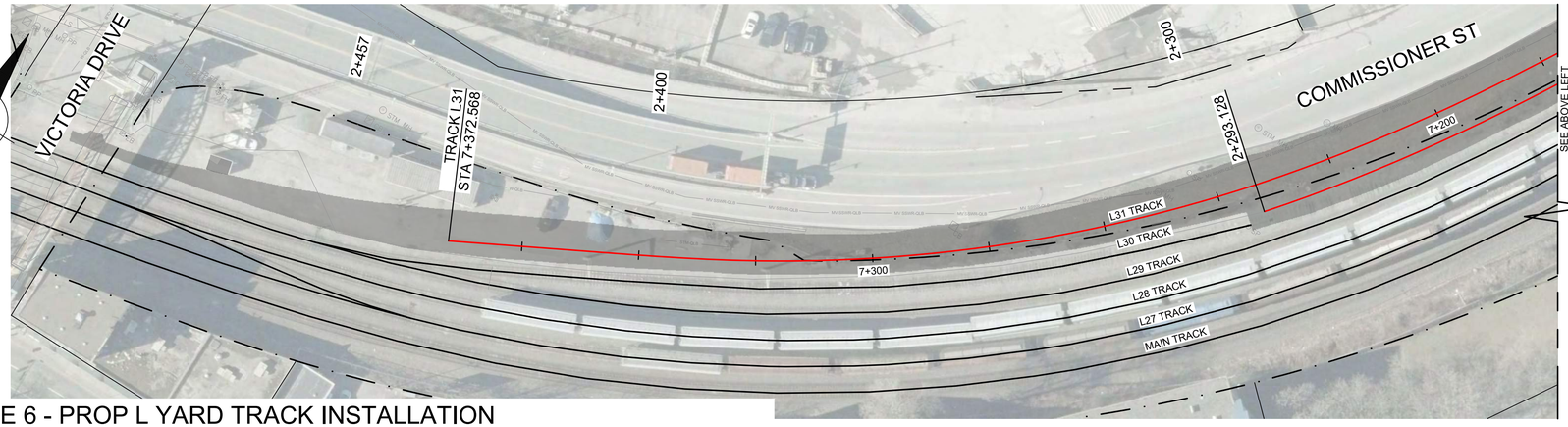

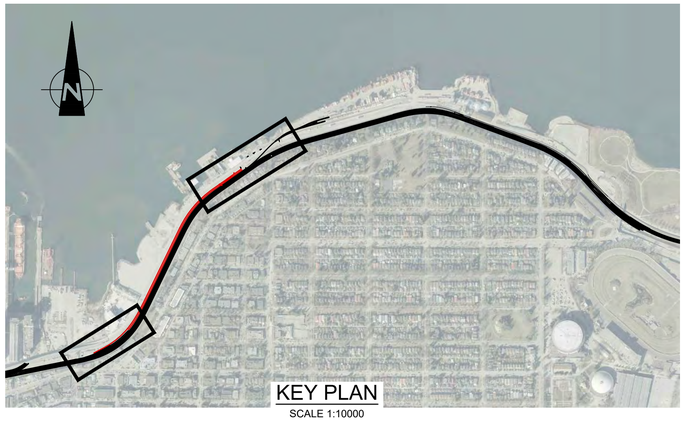

KEY PLAN

SCALE 1:10000

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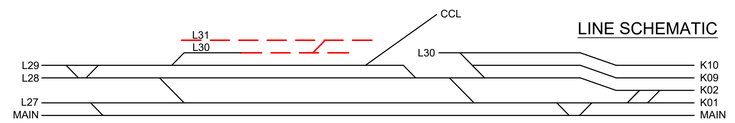
STAGE 6 - PROP L YARD TRACK INSTALLATION

PART A: L30 AND L31 TRACK INSTALLATION WITHOUT FOULING EXISTING TRACKS

CONSTRUCTION:	INSTALL 1547m OF PROPOSED K10/L30 AND L31 TRACKS
DURATION:	3 WEEKS
STATIONING:	STA 1+623.269 TO STA 2+293.128 ON L30 TRACK; STA 6+562.235 TO STA 7+372.559 ON L31 TRACK
TRACK BLOCK:	0
ROAD BLOCK:	0

NOT FOR CONSTRUCTION



LEGEND

- NEW CONSTRUCTION
- AS CONSTRUCTED
- EXISTING
- TO BE REMOVED
- TO BE REALIGNED
- COMPLETED GRADING & DRAINAGE

LINE SCHEMATIC LEGEND

- PROPOSED TRACK (IN SERVICE)
- PROPOSED TRACK (NOT IN SERVICE)
- EXISTING TRACK (IN SERVICE)
- EXISTING TRACK (NOT IN SERVICE)

HATCH

METRIC
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DESIGNED BY: F.D. DATE: 07-06-21	DRAWN BY: N.H. DATE: 07-06-21
CHECKED BY: V.C. DATE: 07-06-21	PROJECT MANAGER: I.M. DATE: 07-06-21
HATCH PROJECT No: H362376	DWG SCALE(FULL SIZE): AS SHOWN

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CP

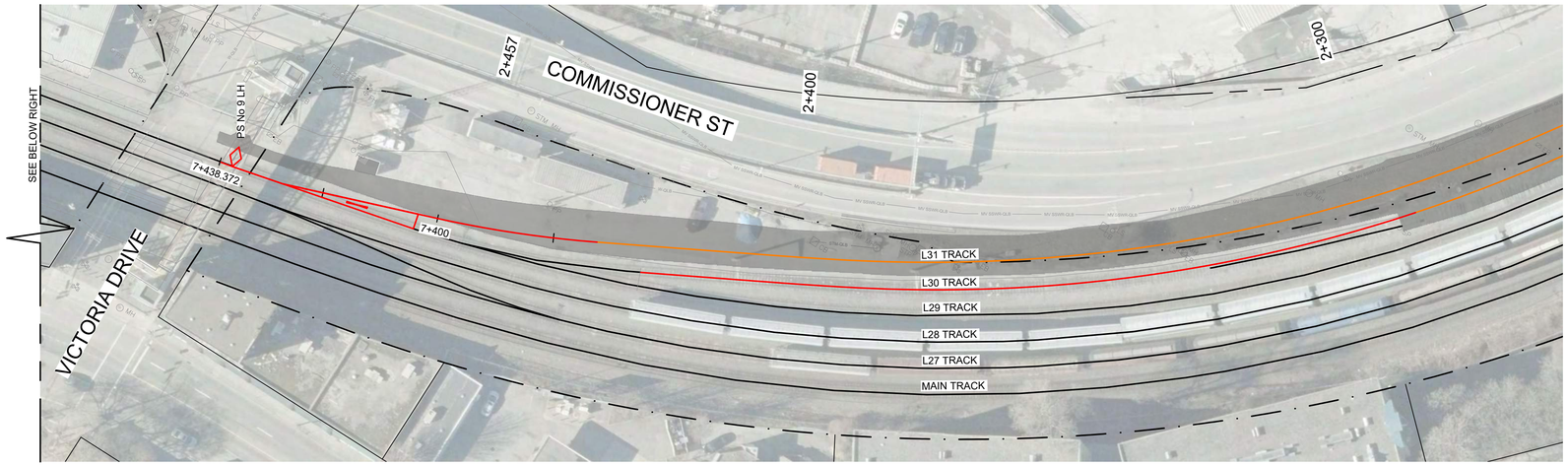
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
STAGING PLAN - STAGE 6
PART A: L30 & L31 TRACK CONSTRUCTION

DWG. BY:	CHK BY:	OFFICE FILE:
MANAGER - DESIGN:		SCALE:
M.FAVREAU DIR. PROJECT SERVICES WEST		DATE:
		PLAN No. H362376-RW-100-S0-8060
		Rev. A

Aug 03 , 2021 , 4:20pm Login name: HOUJ80027
Drawing Name: C:\pwworking\hi\houj80027\d0694048\H362376-RW-100-S0-8010 to 8091.dwg



PLAN

SCALE 1:500

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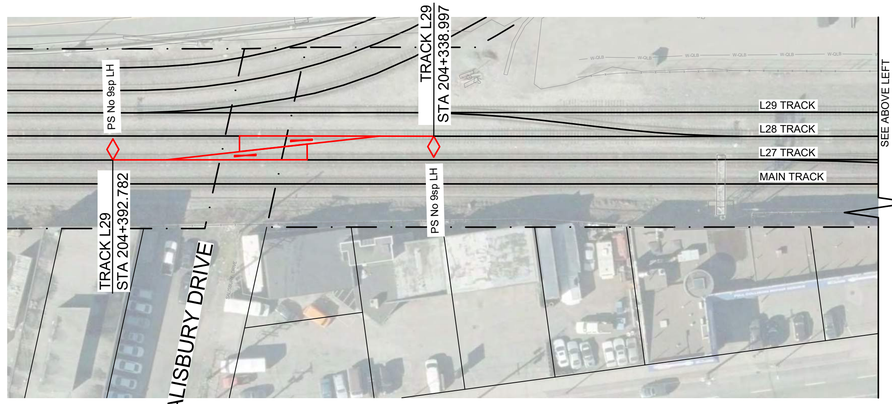
TO VANCOUVER

FROM PORT COQUITLAM



SCALE 1:10000

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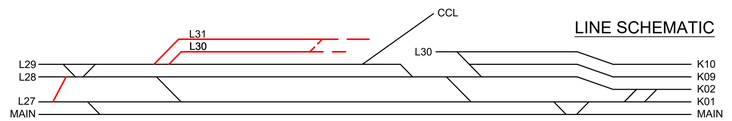
LINE SCHEMATIC



STAGE 6 - PROP L YARD TRACK INSTALLATION

PART B: WESTERN L30 AND L31 TRACK TIE IN TO EXISTING TRACKS

CONSTRUCTION:	INSTALL TRACK AND TURNOUTS; CONTINUE METRO VANCOUVER SEWER SETTLEMENT MONITORING
DURATION:	2 DAYS
STATIONING:	STA 2+293.128 TO STA 2+426.450 ON L30 TRACK; STA 7+372.559 TO STA 7+438.372 ON L31 TRACK; STA 204+338.997 TO STA 204+392.782 ON L29 TRACK
TRACK BLOCK:	6 HOURS ON L30 AND L29 FOR TURNOUT INSTALL; 10 HOURS ON L27 AND L28 FOR CROSSOVER INSTALL
ROAD BLOCK:	0

NOT FOR CONSTRUCTION

LEGEND

NEW CONSTRUCTION
AS CONSTRUCTED
EXISTING
TO BE REMOVED
TO BE REALIGNED
COMPLETED GRADING & DRAINAGE

LINE SCHEMATIC LEGEND

PROPOSED TRACK (IN SERVICE)
PROPOSED TRACK (NOT IN SERVICE)
EXISTING TRACK (IN SERVICE)
EXISTING TRACK (NOT IN SERVICE)

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **07-06-21**	DRAWN BY: **N.H.** DATE: **07-06-21**
CHECKED BY: **V.C.** DATE: **07-06-21**	PROJECT MANAGER: **I.M.** DATE: **07-06-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

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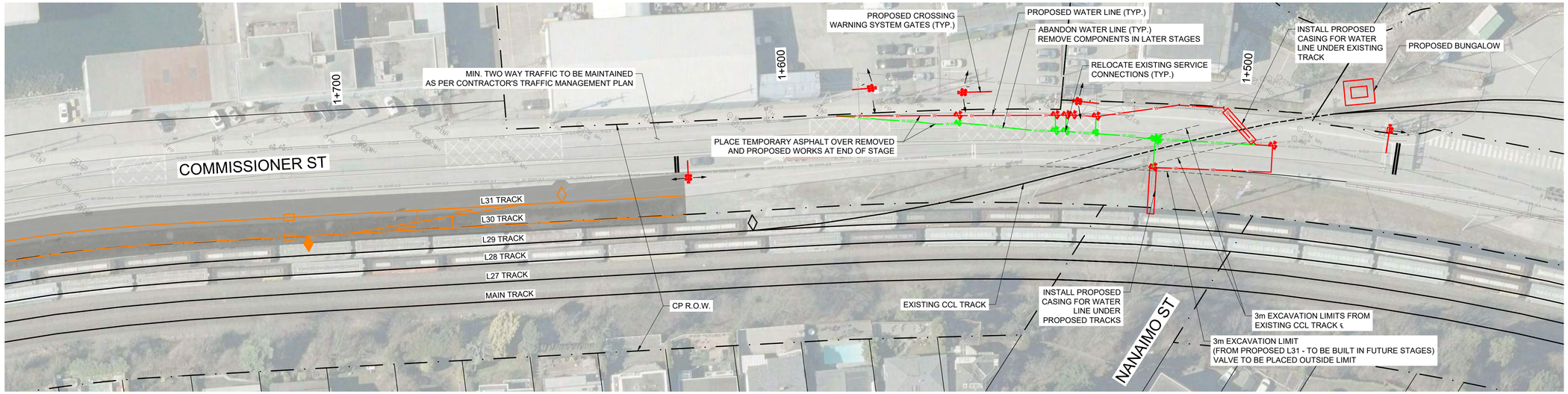
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
STAGING PLAN - STAGE 6
PART B: L30 & L31 WEST CONNECTION

DWG. BY:	CHK BY:	OFFICE FILE:	
MANAGER - DESIGN:		SCALE:	
		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-8061	Rev. A

Aug 03 , 2021 , 4:20pm Login name: HOOU800027
Drawing Name: C:\pwworking\hi\hoqu800027\d0694048\H362376-RW-100-S0-8010 to 8091.dwg



TO VANCOUVER

FROM PORT COQUITLAM

PLAN

SCALE 1:500

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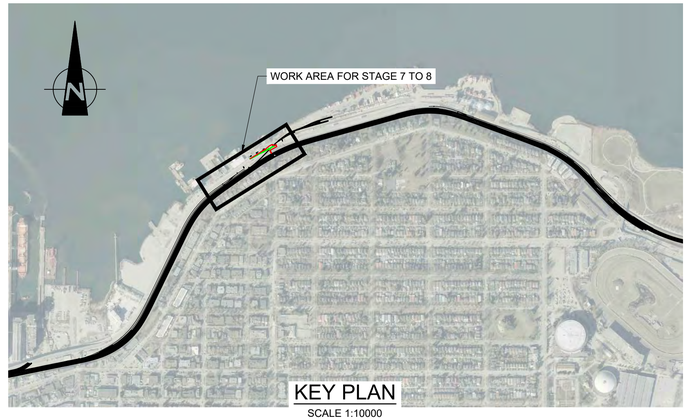


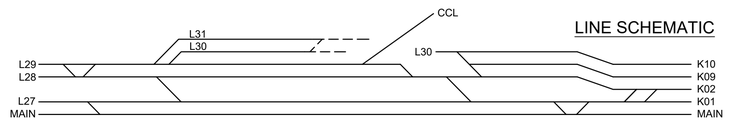
KEY PLAN

SCALE 1:10000

100 m 0 1:10000 500 m

STAGE 7 - UTILITY WORKS AT CCL TRACK

CONSTRUCTION:	INSTALL AND COMMISSION CROSSING WARNING SYSTEM; INSTALL PROPOSED WATER LINE AND VALVES; INSTALL CASINGS FOR PROPOSED WATER LINE; RE-ROUTE WATER LINE; REMOVE EXISTING WATER LINE (ABANDON IN PLACE WHERE SUITABLE)
DURATION:	3 WEEKS
STATIONING:	N/A
TRACK BLOCK:	8 HOURS
ROAD BLOCK:	LANE CLOSURES AS PER CONTRACTOR'S TRAFFIC MANAGEMENT PLAN (MIN OF TWO WAY TRAFFIC TO BE MAINTAINED)
UTILITY IMPACT:	WATER OUTAGE - 48 HOURS OVER WEEKEND



LINE SCHEMATIC

NOT FOR CONSTRUCTION

LEGEND

- NEW CONSTRUCTION
- AS CONSTRUCTED
- EXISTING
- TO BE REMOVED
- TO BE REALIGNED
- COMPLETED GRADING & DRAINAGE

LINE SCHEMATIC LEGEND

- PROPOSED TRACK (IN SERVICE)
- PROPOSED TRACK (NOT IN SERVICE)
- EXISTING TRACK (IN SERVICE)
- EXISTING TRACK (NOT IN SERVICE)

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **07-06-21**	DRAWN BY: **N.H.** DATE: **07-06-21**
CHECKED BY: **V.C.** DATE: **07-06-21**	PROJECT MANAGER: **I.M.** DATE: **07-06-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	N.H.

CP

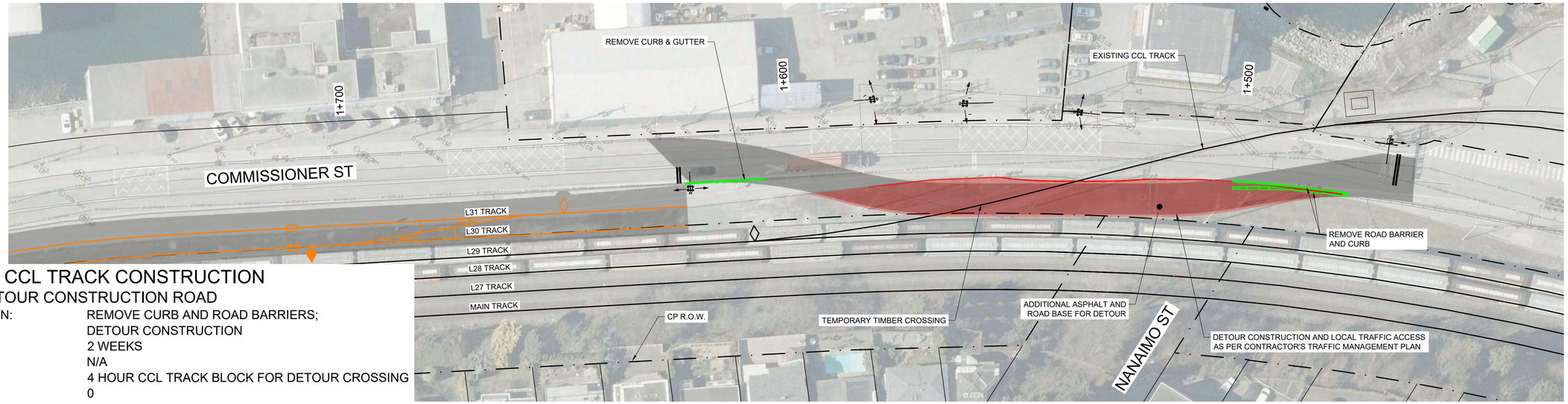
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION STAGING PLAN - STAGE 7 CCL UTILITY WORKS

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-8070 Rev. A

Aug 03 , 2021 , 4:21pm Login name: HOOJ90027
Drawing Name: C:\pwworking\h\hooj90027\d0694048\H362376-RW-100-S0-8010 to 8091.dwg



STAGE 8 - CCL TRACK CONSTRUCTION

PART A: DETOUR CONSTRUCTION ROAD

CONSTRUCTION:	REMOVE CURB AND ROAD BARRIERS; DETOUR CONSTRUCTION
DURATION:	2 WEEKS
STATIONING:	N/A
TRACK BLOCK:	4 HOUR CCL TRACK BLOCK FOR DETOUR CROSSING
ROAD BLOCK:	0

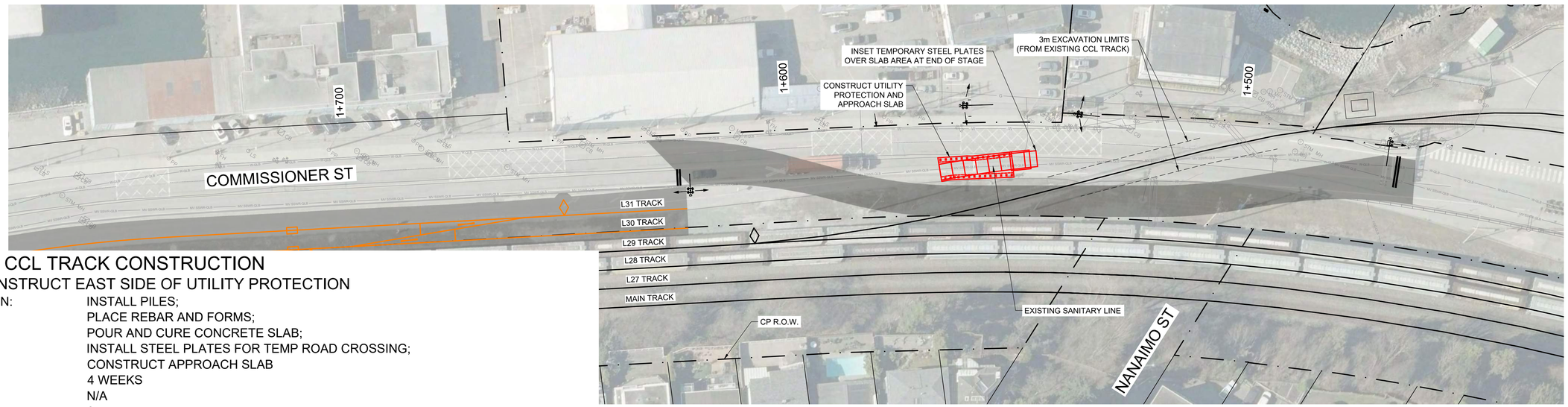
TO VANCOUVER

PLAN

SCALE 1:500

5 m 0 1:500 25 m

FROM PORT COQUITLAM

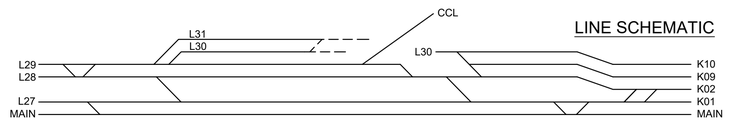


STAGE 8 - CCL TRACK CONSTRUCTION

PART B: CONSTRUCT EAST SIDE OF UTILITY PROTECTION

CONSTRUCTION:	INSTALL PILES; PLACE REBAR AND FORMS; POUR AND CURE CONCRETE SLAB; INSTALL STEEL PLATES FOR TEMP ROAD CROSSING; CONSTRUCT APPROACH SLAB
DURATION:	4 WEEKS
STATIONING:	N/A
TRACK BLOCK:	0
ROAD BLOCK:	0 (DETOUR IN PLACE. TENANT ACCESS THROUGH TRAFFIC CONTROL FLAGGERS DURING WORK HOURS AND DELINEATORS OUTSIDE OF WORK HOURS)

LINE SCHEMATIC



NOT FOR CONSTRUCTION

LEGEND

NEW CONSTRUCTION
AS CONSTRUCTED
EXISTING
TO BE REMOVED
TO BE REALIGNED
COMPLETED GRADING & DRAINAGE

LINE SCHEMATIC LEGEND

PROPOSED TRACK (IN SERVICE)
PROPOSED TRACK (NOT IN SERVICE)
EXISTING TRACK (IN SERVICE)
EXISTING TRACK (NOT IN SERVICE)

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **07-06-21**	DRAWN BY: **N.H.** DATE: **07-06-21**
CHECKED BY: **V.C.** DATE: **07-06-21**	PROJECT MANAGER: **I.M.** DATE: **07-06-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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A	03-08-21	ISSUED FOR 90% DESIGN	N.H.

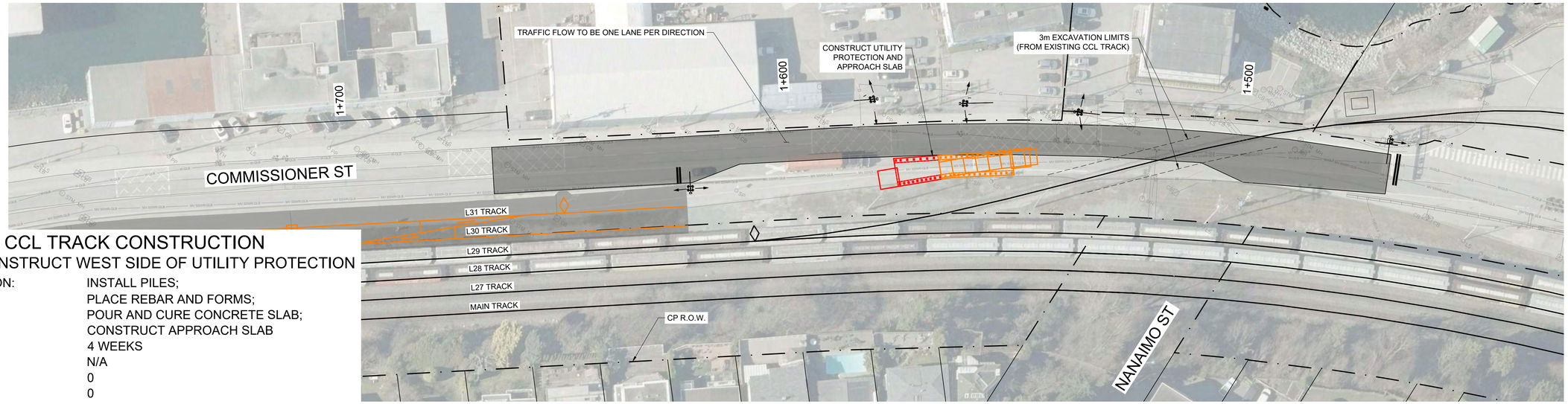
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
STAGING PLAN - STAGE 8
PART A & B: DETOUR AND UTILITY PROTECTION

DWG. BY:	CHK BY:	OFFICE FILE:	
MANAGER - DESIGN:		SCALE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		DATE:	
		PLAN No. H362376-RW-100-S0-8080	Rev. A

Aug 03 , 2021 , 6:02pm Login name: H0UQ90027
Drawing Name: C:\pwworking\hh\hoqu90027\d0694048\H362376-RW-100-S0-8010 to 8091.dwg



STAGE 8 - CCL TRACK CONSTRUCTION

PART C: CONSTRUCT WEST SIDE OF UTILITY PROTECTION

CONSTRUCTION:	INSTALL PILES; PLACE REBAR AND FORMS; POUR AND CURE CONCRETE SLAB; CONSTRUCT APPROACH SLAB
DURATION:	4 WEEKS
STATIONING:	N/A
TRACK BLOCK:	0
ROAD BLOCK:	0

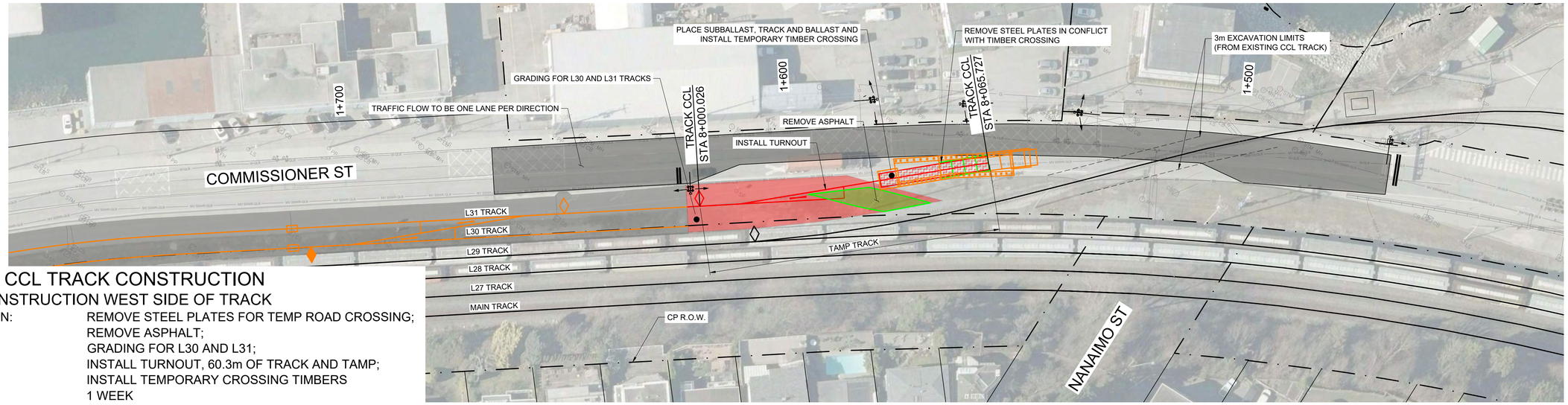
TO VANCOUVER

PLAN

SCALE 1:500

5 m 0 1:500 25 m

FROM PORT COQUITLAM

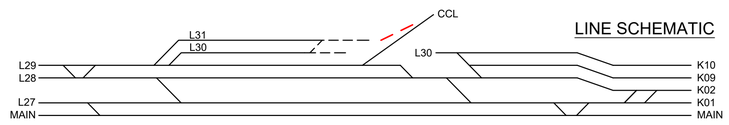


STAGE 8 - CCL TRACK CONSTRUCTION

PART D: CONSTRUCTION WEST SIDE OF TRACK

CONSTRUCTION:	REMOVE STEEL PLATES FOR TEMP ROAD CROSSING; REMOVE ASPHALT; GRADING FOR L30 AND L31; INSTALL TURNOUT, 60.3m OF TRACK AND TAMP; INSTALL TEMPORARY CROSSING TIMBERS
DURATION:	1 WEEK
STATIONING:	STA 8+000.026 TO STA 8+065.727 ON PROP CCL TRACK
TRACK BLOCK:	0
ROAD BLOCK:	0

NOT FOR CONSTRUCTION



LEGEND

- NEW CONSTRUCTION
- AS CONSTRUCTED
- EXISTING
- TO BE REMOVED
- TO BE REALIGNED
- COMPLETED GRADING & DRAINAGE

LINE SCHEMATIC LEGEND

- PROPOSED TRACK (IN SERVICE)
- PROPOSED TRACK (NOT IN SERVICE)
- EXISTING TRACK (IN SERVICE)
- EXISTING TRACK (NOT IN SERVICE)

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **07-06-21**	DRAWN BY: **N.H.** DATE: **07-06-21**
CHECKED BY: **V.C.** DATE: **07-06-21**	PROJECT MANAGER: **I.M.** DATE: **07-06-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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CP

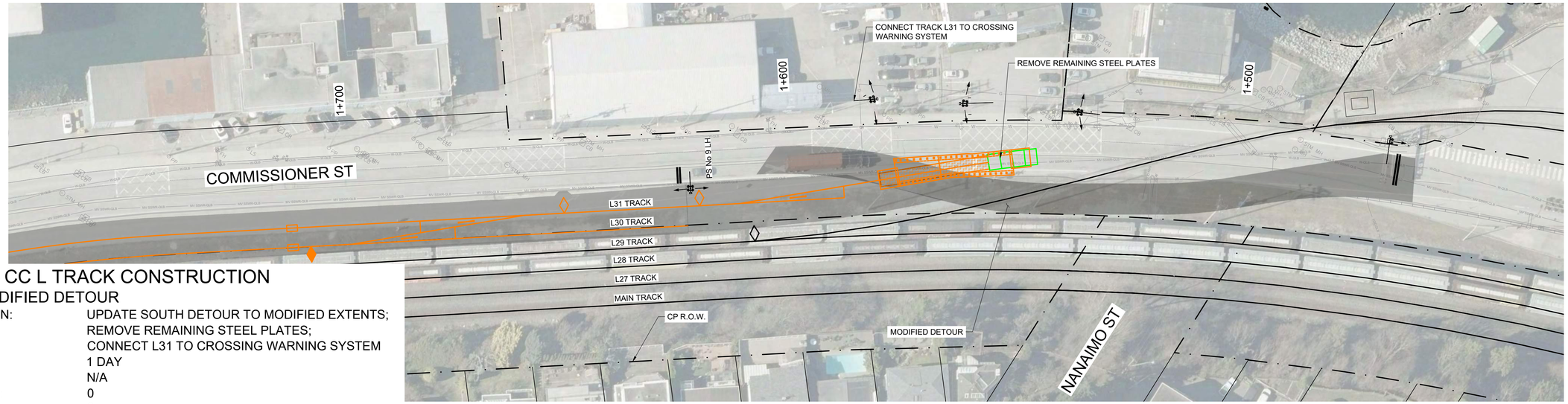
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
STAGING PLAN - STAGE 8
PART C & D: UTILITY PROTECTION & TRK CONSTRUCTION

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-RW-100-S0-8081	Rev. A

Aug 03 , 2021 , 4:22pm Login name: HOUJ80027
Drawing Name: C:\pwworking\hi\houj80027\d0694048\H362376-RW-100-S0-8010 to 8091.dwg



STAGE 8 - CC L TRACK CONSTRUCTION

PART E: MODIFIED DETOUR

CONSTRUCTION:	UPDATE SOUTH DETOUR TO MODIFIED EXTENTS; REMOVE REMAINING STEEL PLATES; CONNECT L31 TO CROSSING WARNING SYSTEM
DURATION:	1 DAY
STATIONING:	N/A
TRACK BLOCK:	0
ROAD BLOCK:	0

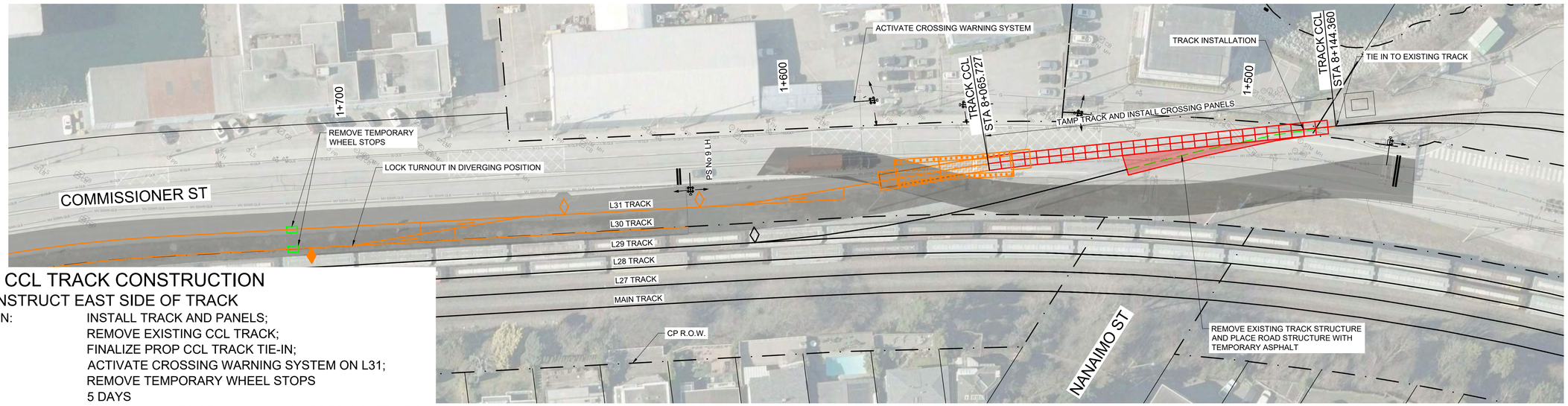
TO VANCOUVER

FROM PORT COQUITLAM

PLAN

SCALE 1:500

5 m 0 1:500 25 m



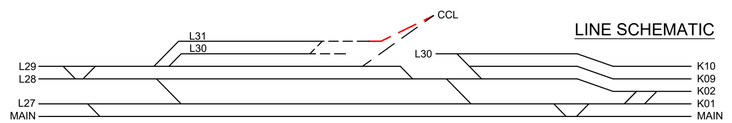
STAGE 8 - CCL TRACK CONSTRUCTION

PART F: CONSTRUCT EAST SIDE OF TRACK

CONSTRUCTION:	INSTALL TRACK AND PANELS; REMOVE EXISTING CCL TRACK; FINALIZE PROP CCL TRACK TIE-IN; ACTIVATE CROSSING WARNING SYSTEM ON L31; REMOVE TEMPORARY WHEEL STOPS
DURATION:	5 DAYS
STATIONING:	STA 8+065.727 TO STA 8+144.360 ON PROP CCL TRACK
TRACK BLOCK:	12 HOURS ON CCL TRACK
ROAD BLOCK:	0

NOT FOR CONSTRUCTION

LINE SCHEMATIC



LEGEND

- NEW CONSTRUCTION
- AS CONSTRUCTED
- EXISTING
- TO BE REMOVED
- TO BE REALIGNED
- COMPLETED GRADING & DRAINAGE

LINE SCHEMATIC LEGEND

- PROPOSED TRACK (IN SERVICE)
- PROPOSED TRACK (NOT IN SERVICE)
- EXISTING TRACK (IN SERVICE)
- EXISTING TRACK (NOT IN SERVICE)

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
F.D. DATE: 07-06-21	N.H. DATE: 07-06-21
CHECKED BY: V.C. DATE: 07-06-21	PROJECT MANAGER: I.M. DATE: 07-06-21
HATCH PROJECT No: H362376	DWG SCALE(FULL SIZE): AS SHOWN

PROFESSIONAL SEALS

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CP

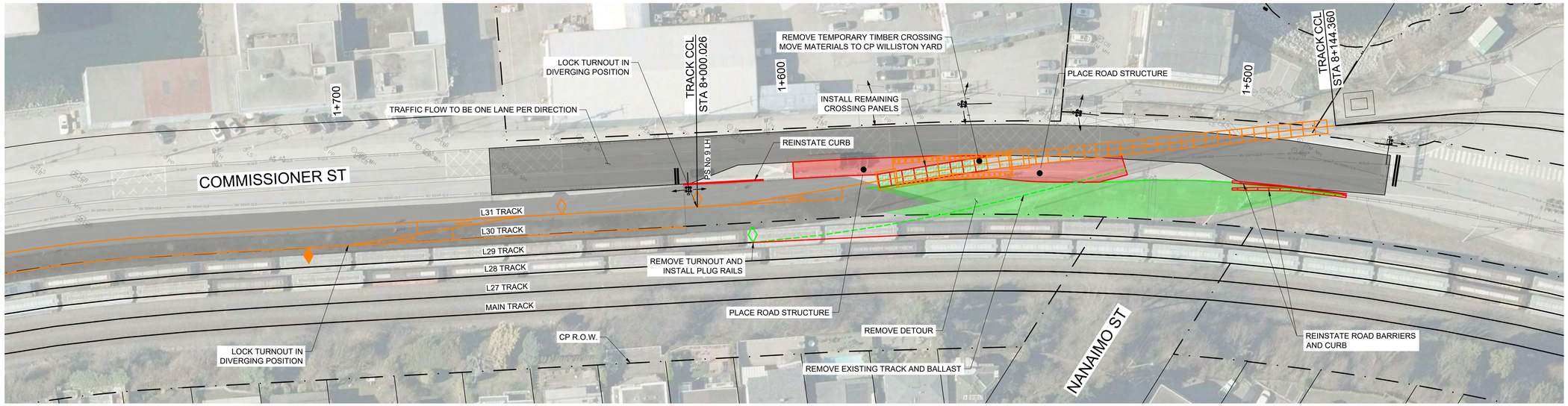
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
STAGING PLAN - STAGE 8
PART E & F: DETOUR AND COMMISSIONING

DWG. BY:	CHK BY:	OFFICE FILE:
MANAGER - DESIGN:		SCALE:
M.FAVREAU DIR. PROJECT SERVICES WEST		DATE:
		PLAN No. H362376-RW-100-S0-8082
		Rev. A

Aug 03 , 2021 - 4:22pm Login name: HOOJ80027
Drawing Name: C:\pwworking\hi\hoqu80027\d0694048\H362376-RW-100-S0-8010 to 8091.dwg



PLAN
SCALE 1:500

5 m 0 1:500 25 m

TO VANCOUVER

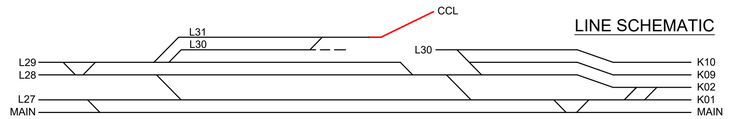
FROM PORT COQUITLAM

STAGE 8 - CCL TRACK CONSTRUCTION

PART H: COMMISSION PROP CCL TRACK

CONSTRUCTION:	REMOVE TEMPORARY TIMBER CROSSING; INSTALL CROSSING PANELS; REMOVE ASPHALT FOR DETOUR; REINSTALL ROAD BARRIERS AND CURB ALONG COMMISSIONER ST; REMOVE TEMPORARY WHEEL STOPS; REMOVE EXISTING CCL TRACK AND TURNOUT (INSTALL PLUG RAIL)
DURATION:	4 DAYS
STATIONING:	STA 8+000.026 TO STA 8+144.360 ON PROP CCL TRACK
TRACK BLOCK:	4 HOURS ON L29 TO REMOVE TURNOUT AND INSTALL PLUG RAIL
ROAD BLOCK:	0

LINE SCHEMATIC



NOT FOR CONSTRUCTION

LEGEND

- NEW CONSTRUCTION
- AS CONSTRUCTED
- EXISTING
- TO BE REMOVED
- TO BE REALIGNED
- COMPLETED GRADING & DRAINAGE

LINE SCHEMATIC LEGEND

- PROPOSED TRACK (IN SERVICE)
- PROPOSED TRACK (NOT IN SERVICE)
- EXISTING TRACK (IN SERVICE)
- EXISTING TRACK (NOT IN SERVICE)

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **07-06-21**	DRAWN BY: **N.H.** DATE: **07-06-21**
CHECKED BY: **V.C.** DATE: **07-06-21**	PROJECT MANAGER: **I.M.** DATE: **07-06-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

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CP

ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
STAGING PLAN - STAGE 8
PART G: CCL TRACK COMMISSIONING

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE:
M.FAVREAU DIR. PROJECT SERVICES WEST	DATE:
	PLAN No.: H362376-RW-100-S0-8083
	Rev.: A

Aug 03 , 2021 , 4:22pm Login name: HOQU90027
Drawing Name: C:\pwworking\h\hoqu90027\d0694048\H362376-RW-100-S0-8010 to 8091.dwg

PLAN
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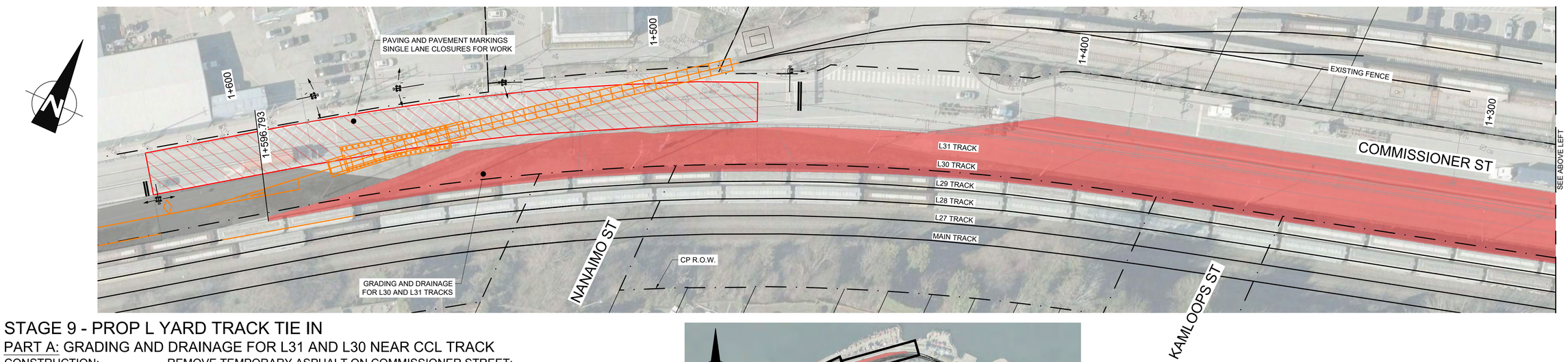


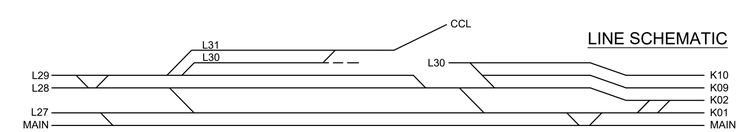
STAGE 9 - PROP L YARD TRACK TIE IN

PART A: GRADING AND DRAINAGE FOR L31 AND L30 NEAR CCL TRACK

CONSTRUCTION:	REMOVE TEMPORARY ASPHALT ON COMMISSIONER STREET; ASPHALT PAVING; INSTALL PAVEMENT MARKINGS; RELOCATE EQUIPMENT FROM MAIN STAGING AREA TO ROADWAY STAGING AREA; COMPLETE GRADING & DRAINAGE FROM SLOCAN TO NANAIMO ST (INCL. STAGING AREA)
DURATION:	4 WEEKS
STATIONING:	STA 0+966.760 TO STA 1+596.793 ON L30 TRACK
TRACK BLOCK:	N/A
ROAD BLOCK:	SINGLE LANE CLOSURES PER PLAN

NOT FOR CONSTRUCTION

KEY PLAN
SCALE 1:10000



LINE SCHEMATIC

LEGEND

NEW CONSTRUCTION
AS CONSTRUCTED
EXISTING
TO BE REMOVED
TO BE REALIGNED
COMPLETED GRADING & DRAINAGE

LINE SCHEMATIC LEGEND

PROPOSED TRACK (IN SERVICE)
PROPOSED TRACK (NOT IN SERVICE)
EXISTING TRACK (IN SERVICE)
EXISTING TRACK (NOT IN SERVICE)

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: F.D. DATE: 07-06-21	DRAWN BY: N.H. DATE: 07-06-21
CHECKED BY: V.C. DATE: 07-06-21	PROJECT MANAGER: I.M. DATE: 07-06-21
HATCH PROJECT No: H362376	DWG SCALE(FULL SIZE): AS SHOWN

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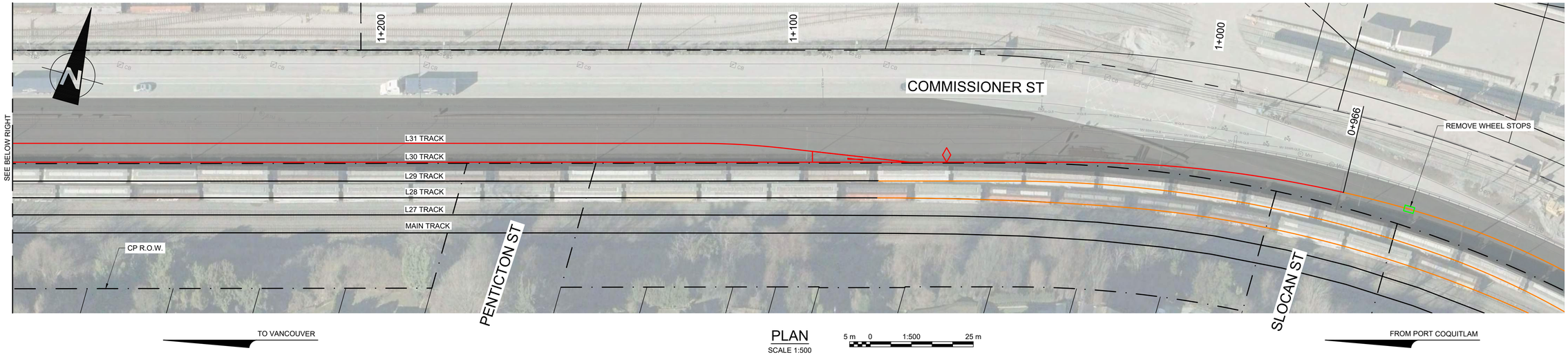
CP
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION — MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
STAGING PLAN - STAGE 9
PART A: PAVING AND L30 & L31 GRADING

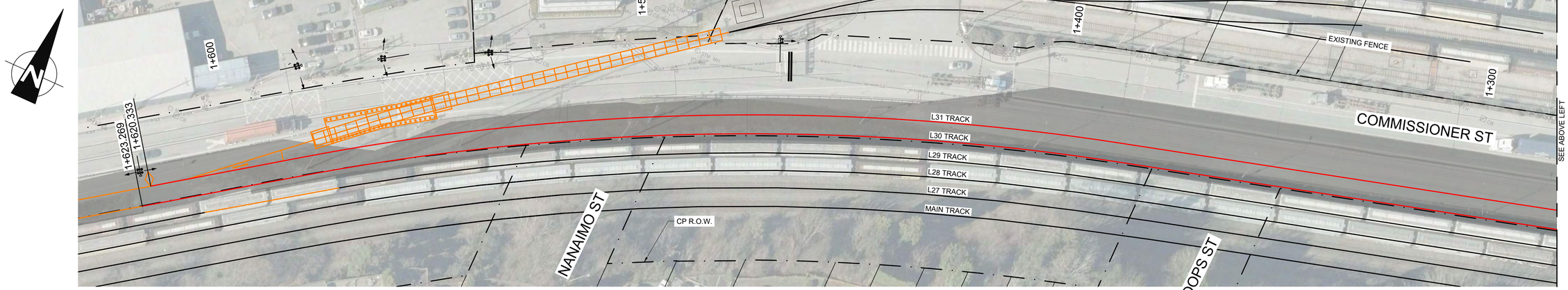
DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-8090 — Rev. A

Aug 03 , 2021 , 4:23pm Login name: HOQU90027
Drawing Name: C:\pwworking\hi\hoqu90027\d0694048\H362376-RW-100-S0-8010 to 8091.dwg



PLAN
SCALE 1:500

5 m 0 1:500 25 m

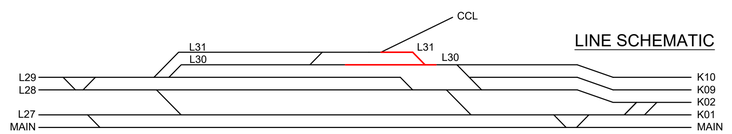


STAGE 9 - PROP L YARD TRACK TIE IN

PART B: L30 AND L31 TRACK TIE IN NEAR CCL TRACK

CONSTRUCTION:	REMOVE TEMPORARY WHEEL STOPS; INSTALL 1475.8m OF L30 AND L31 TRACKS AND CONNECT TO AS-BUILT TRACK
DURATION:	4 WEEKS
STATIONING:	STA 0+966 TO STA 1+623.269 ON L30 TRACK
TRACK BLOCK:	0
ROAD BLOCK:	0

NOT FOR CONSTRUCTION



LEGEND

NEW CONSTRUCTION
AS CONSTRUCTED
EXISTING
TO BE REMOVED
TO BE REALIGNED
COMPLETED GRADING & DRAINAGE

LINE SCHEMATIC LEGEND

PROPOSED TRACK (IN SERVICE)
PROPOSED TRACK (NOT IN SERVICE)
EXISTING TRACK (IN SERVICE)
EXISTING TRACK (NOT IN SERVICE)

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **F.D.** DATE: **07-06-21**	DRAWN BY: **N.H.** DATE: **07-06-21**
CHECKED BY: **V.C.** DATE: **07-06-21**	PROJECT MANAGER: **I.M.** DATE: **07-06-21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	N.H.

ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
STAGING PLAN - STAGE 9
PART B: L30 & L31 TRACK COMPLETION

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-RW-100-S0-8091 Rev. A

Aug 03 , 2021 , 4:23pm Login name: H00U90027
Drawing Name: C:\pwworking\ht\hoqu90027\d0694048\H362376-RW-100-S0-8010 to 8091.dwg

STRUCTURE TABLE		
NAME	STATION	STRUCTURE DETAILS
CO100	0+225.000	P100 INV WEST = 7.04
CO101	0+268.929	P100 INV EAST = 6.62 P102 INV WEST = 6.62 P101 INV NORTH = 6.62
CO102	0+285.848	P102 INV EAST = 6.66 P103 INV WEST = 6.65
CO103	0+319.289	P103 INV EAST = 6.73 P104 INV WEST = 6.73
CO104	0+354.592	P104 INV EAST = 6.65 P105 INV WEST = 6.65
CO105	0+380.481	P105 INV EAST = 6.59 P106 INV WEST = 6.59
CO106	0+414.566	P108 INV WEST = 6.33 P106 INV EAST = 6.33 P107 INV NORTH = 6.33
CO107	0+446.220	P108 INV EAST = 6.49

STRUCTURE TABLE		
NAME	STATION	STRUCTURE DETAILS
CO200	0+586.819	P200 INV WEST = 5.87
CO201	0+625.000	P200 INV EAST = 5.70 P201 INV WEST = 5.70
CO202	0+653.888	P201 INV EAST = 5.50 P202 INV WEST = 5.50
CO203	0+681.292	P202 INV EAST = 5.43 P203 INV WEST = 5.43
CO204	0+725.030	P203 INV EAST = 5.31 P204 INV WEST = 5.31 P205 INV NORTH = 5.31
CO205	0+749.999	P204 INV EAST = 5.47
CB206	0+885.468	RIM = 5.96 EX-P201 INV NORTH = 3.86

STRUCTURE TABLE		
NAME	STATION	STRUCTURE DETAILS
CO300	0+921.037	P300 INV WEST = 4.86
CO301	0+952.190	P300 INV EAST = 4.79 P301 INV WEST = 4.79
CO302	0+980.284	P301 INV EAST = 4.73 P302 INV WEST = 4.73
CO303	1+010.721	P302 INV EAST = 4.66 P303 INV WEST = 4.66
CO304	1+040.574	P303 INV EAST = 4.60 P304 INV WEST = 4.60
MH305	1+073.007	RIM = 5.59 P304 INV EAST = 4.53 EX-P300 INV NORTH WEST = 4.50 P305 INV WEST = 4.63
CB306	1+127.690	RIM = 5.46 P305 INV EAST = 4.36 P306 INV WEST = 4.36 EX-P301 INV NORTH = 4.34
CO307	1+157.283	P306 INV EAST = 4.30 P307 INV WEST = 4.30
CB308	1+187.631	RIM = 5.09 P307 INV EAST = 4.23 P308 INV WEST = 4.18 EX-P302 INV NORTH = 4.05
CO309	1+216.540	P308 INV EAST = 4.12 P309 INV WEST = 4.12
CO310	1+246.588	P309 INV EAST = 4.05 P310 INV WEST = 4.05
CO311	1+275.912	P310 INV EAST = 3.99 P311 INV WEST = 3.99
CO312	1+306.088	P311 INV EAST = 3.92 P312 INV WEST = 3.92
CO313	1+336.753	P312 INV EAST = 3.85 P313 INV WEST = 3.85
CB314	1+367.285	RIM = 4.69 P313 INV EAST = 3.79 EX-P303 INV NORTH = 3.26
CB315	1+508.925	RIM = 4.73 EX-P315 INV NORTH EAST = 3.35

STRUCTURE TABLE		
NAME	STATION	STRUCTURE DETAILS
CO400	1+625.000	P400 INV WEST = 3.53
CB401	1+662.849	RIM = 4.37 P400 INV EAST = 3.44 P401 INV WEST = 3.43 EX-P401 INV NORTH = 2.98
CO402	1+694.995	P402 INV WEST= 3.54 P401 INV EAST = 3.54
CO403	1+725.000	P402 INV EAST = 3.65

STRUCTURE TABLE		
NAME	STATION	STRUCTURE DETAILS
CO500	1+850.000	P500 INV WEST = 3.65
CO501	1+874.999	P500 INV EAST = 3.57 P501 INV WEST = 3.57
CB502	1+897.885	RIM = 4.37 P501 INV EAST = 3.50 P502 INV WEST = 3.54 EX-P500 INV NORTH = 2.90
CB503	1+930.555	RIM = 4.10 P503 INV WEST = 3.37 P502 INV EAST = 3.37 EX-P501 INV NORTH = 2.97
CO504	1+950.000	P503 INV EAST = 3.42

STRUCTURE TABLE		
NAME	STATION	STRUCTURE DETAILS
CO600	2+075.000	P600 INV WEST = 3.47
MH601	2+097.124	RIM = 4.24 P600 INV EAST = 3.42 P601 INV WEST = 3.42 EX-P600 INV NORTH EAST = 3.01
CO602	2+126.767	P601 INV EAST= 3.49 P602 INV WEST = 3.49
CO603	2+156.712	P602 INV EAST = 3.42 P603 INV WEST = 3.42
CO604	2+186.811	P603 INV EAST = 3.29 P604 INV WEST = 3.29
CO605	2+216.971	P604 INV EAST = 3.17 P605 INV WEST = 3.17
CO606	2+242.983	P605 INV EAST = 3.11 P606 INV WEST = 3.11
CO607	2+266.519	P606 INV EAST = 3.06 P607 INV WEST = 3.06
MH608	2+289.994	RIM = 4.43 P607 INV EAST = 3.01 EX-P601 INV NORTH = 2.60
CO700	7+252.002	P700 INV WEST = 3.27
MH701	7+285.585	RIM = 4.02 P700 INV EAST = 3.20 P701 INV WEST = 3.08 EX-P602 INV NORTH EAST = 2.76
CO702	7+315.276	P702 INV WEST = 3.37 P701 INV EAST = 3.37
CO703	7+345.517	P703 INV WEST = 3.67 P702 INV EAST = 3.67
CO704	7+375.569	P703 INV EAST = 3.97 P704 INV WEST = 3.97
CO705	7+406.159	P704 INV EAST = 4.27

NOTE

1. RIM ELEVATION OF ALL CLEANOUTS TO MATCH THE FINISH SURFACE

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES
UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
D.L.	**D.L.**
DATE: 14-07-21	DATE: **14-07-21**
CHECKED BY:	PROJECT MANAGER:
M.R.	**I.M.**
DATE: **23-07-21**	DATE: **23-07-21**
HATCH PROJECT No:	DWG SCALE(FULL SIZE):
362376	**N.T.S**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (“CLIENT”) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION (“HATCH”). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	D.L.

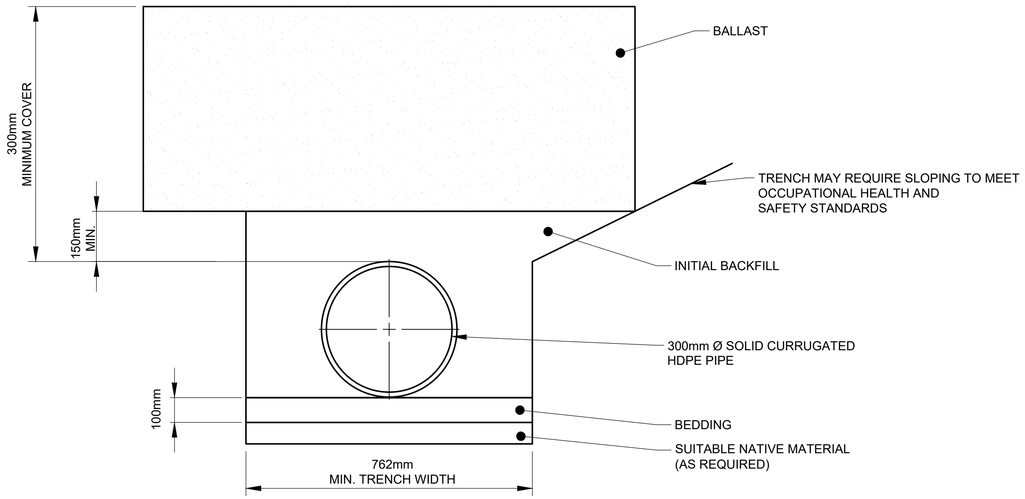
ENGINEERING PROJECTS - EAST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
DRAINAGE
STRUCTURE AND CLEANOUT TABLES

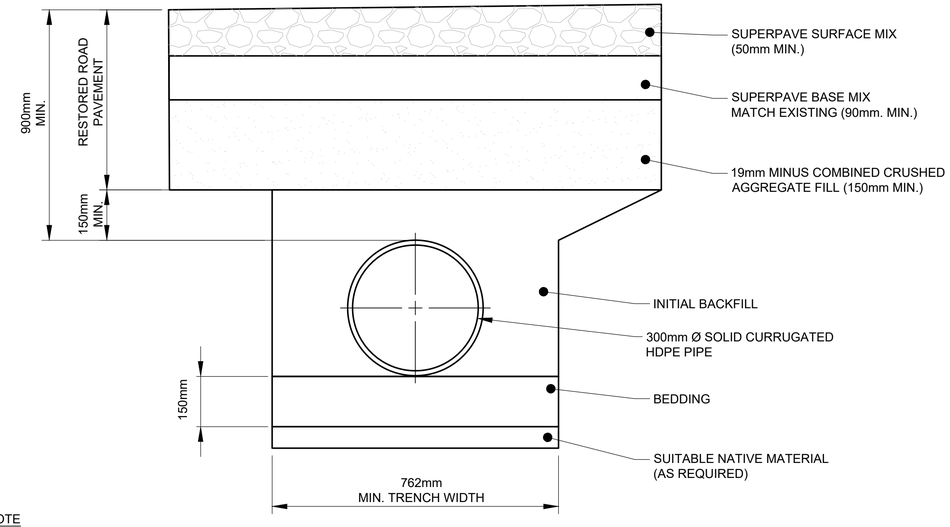
DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-DG-100-S0-3200 Rev. A

Aug 02 , 2021 - 12:49pm Login name: LAW94766
Drawing Name: C:\pwworking\hi\ow94766\d0694105\H362376-DG-100-S0-6200 to 6201.dwg



TYPICAL SOLID WALL HDPE PIPE BEDDING DETAIL

N.T.S.

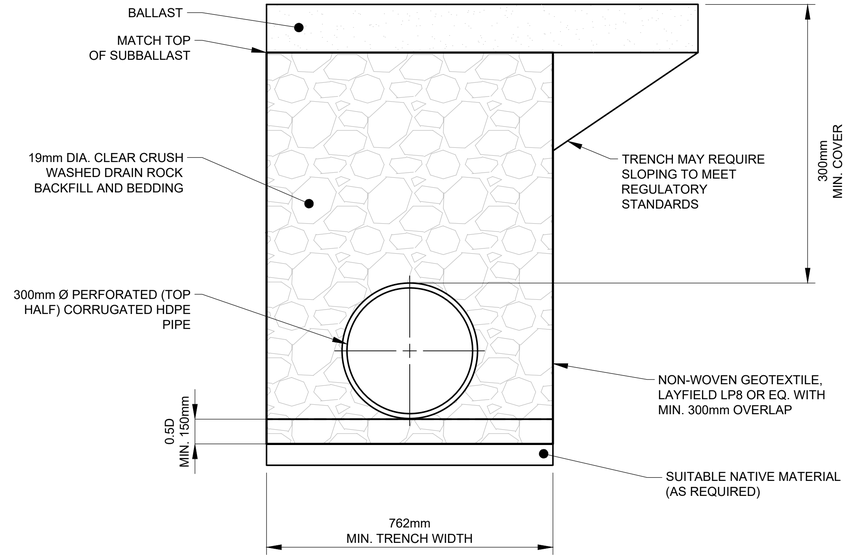


NOTE

1. REFER TO DWG. G4.2, CITY OF VANCOUVER STANDARD DETAIL DRAWINGS (2018) FOR ARTERIAL TRENCH BACKFILL COMPACTION REQUIREMENTS.
2. REFER TO DWG. G5.2, CITY OF VANCOUVER STANDARD DETAIL DRAWINGS (2018) FOR PERMANENT PAVEMENT RESTORATION COMPACTION REQUIREMENTS.

HDPE SOLID WALL PIPE DETAIL UNDER NEW BRIGHTON RD

N.T.S.



TYPICAL HDPE PERFORATED PIPE BEDDING DETAIL

N.T.S.

NOT FOR CONSTRUCTION

Aug 02 , 2021 , 12:49pm Login name: LAVI94766
Drawing Name: C:\pwworking\hi\lavi94766\d06941051\H362376-DG-100-S0-6200 to 6201.dwg

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
D.L. DATE: 14-07-21	**D.L.** DATE: **14-07-21**
CHECKED BY: **M.R.** DATE: **23-07-21**	PROJECT MANAGER: **I.M.** DATE: **23-07-21**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **N.T.S**

PROFESSIONAL SEALS

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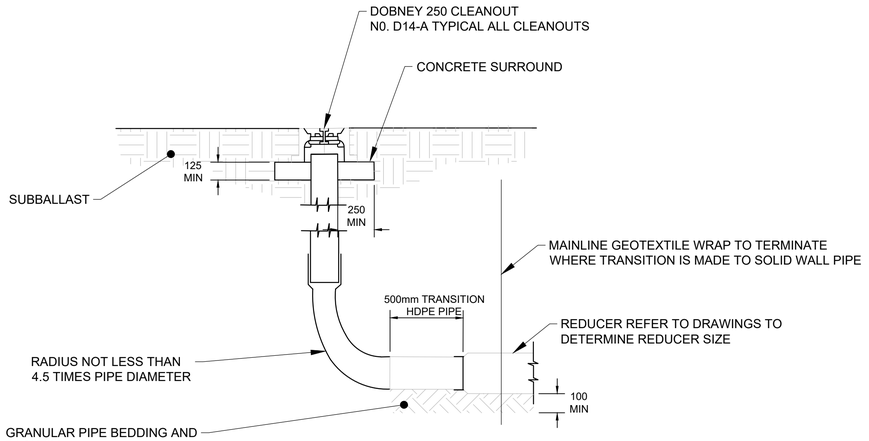
No.	DATE	REVISION	BY
A	03-08-21	**ISSUED FOR 90% DESIGN**	D.L.

ENGINEERING PROJECTS - EAST

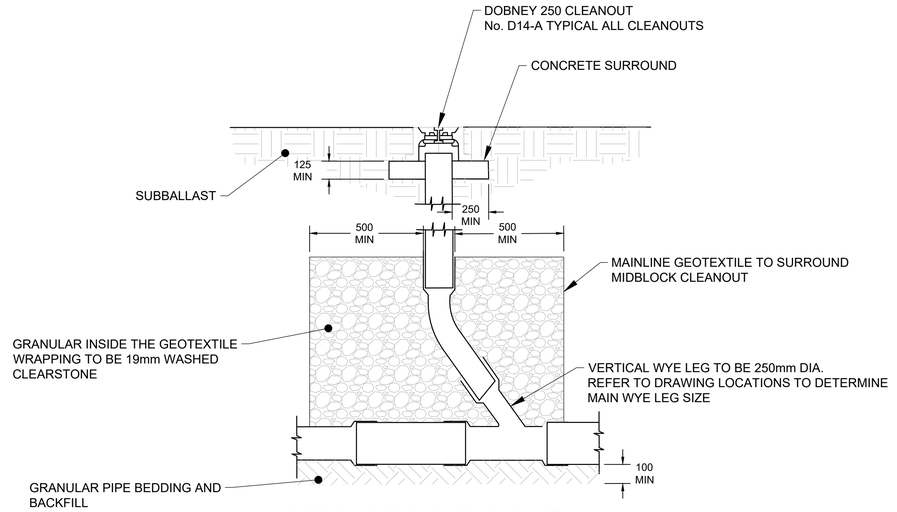
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
DRAINAGE
DETAILS - SHEET 1 OF 2

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-DG-100-S0-6200	Rev. A



TERMINAL CLEANOUT
N.T.S



MIDBLOCK CLEANOUT
N.T.S

NOTES

1. FOR BOTH TERMINAL AND MID-BLOCK CLEANOUT, INSTALL A VERTICAL SECTION OF PIPE ABOVE SWEEP FITTING AT THE TIME OF MAIN SUBDRAIN NETWORK INSTALLATION TO MATCH THE TOP OF RAIL ELEVATION.
2. VERTICAL PIPE SECTION TO BE CUT AND ADJUSTED SO THAT THE CONCRETE SURROUND, FRAME AND LID MATCH THE FINISHED BALLAST ELEVATION.

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: D.L. DATE: 14-07-21	DRAWN BY: D.L. DATE: 14-07-21
CHECKED BY: M.R. DATE: 23-07-21	PROJECT MANAGER: I.M. DATE: 23-07-21
HATCH PROJECT No: 362376	DWG SCALE(FULL SIZE): N.T.S

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	D.L.

CP
ENGINEERING PROJECTS - EAST

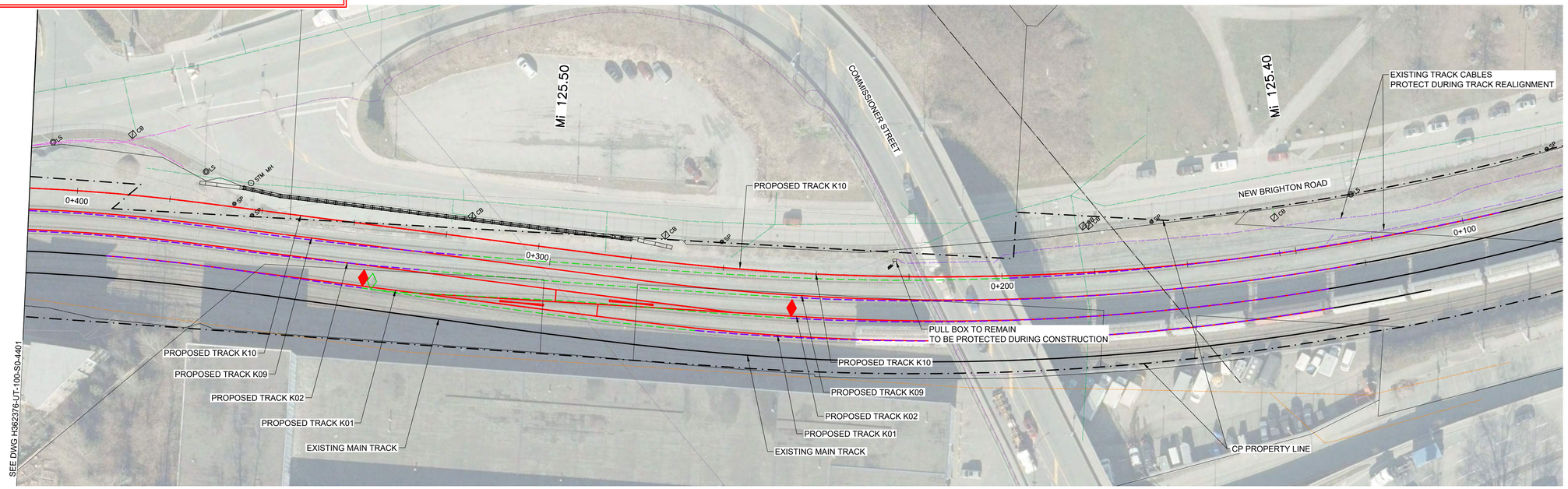
VANCOUVER DIVISION — MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
DRAINAGE
DETAILS - SHEET 2 OF 2

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-DG-100-S0-6201 Rev. A

Aug 02 , 2021 , 12:49pm Login name: LAW94766
Drawing Name: C:\pwworking\hi\law94766\d0694105\H362376-DG-100-S0-6200 to 6201.dwg

NOT FOR CONSTRUCTION



PLAN

SCALE 1:500

5 m 0 1:500 25 m

TO VANCOUVER

FROM PORT COQUITLAM

NOTES:

1. QUALITY LEVEL D UTILITIES SHOWN ARE FROM RECORD DRAWINGS FROM UTILITY OWNERS, CITY OF VANCOUVER AND VANCOUVER FRASER PORT AUTHORITY GIS RECORDS.
2. REFER TO REMOVAL DRAWINGS FOR STORM SEWER MODIFICATIONS.

UTILITIES LEGEND:

FROM UNDERHILL SURVEY - JUNE 2020

- ELECTRICAL DUCT — EL-QLB
- UNDERGROUND FIBRE OPTIC CABLES — FOC-QLB
- GAS MAIN — GAS-QLB
- HARBOUR EAST INTERCEPTOR — MV SSWR-QLB
- SANITARY SEWER — SAN-QLB
- STORM SEWER — STM-QLB
- WATERMAIN — W-QLB
- SANITARY — SAN FM-QLD

- CATCH BASIN — CB
- STORM / SEWER MANHOLE — MH
- POWER POLE — PP
- LAMP STANDARD — LS
- EQUIPMENT BOX — EB
- HYDRANT — FH
- WATERMAIN VALVE
- GAS MAIN VALVE

FROM RECORD DRAWINGS AND VFPA / CoV GIS DATA

- COMBINED SEWER — COMB SSWR
- UNDERGROUND COMM / TELEPHONE — COMMS
- ELECTRICAL DISTRIBTUION — EL-QLD
- FIBRE OPTIC CABLES — FOC-QLD
- GAS MAIN — GAS-QLD
- HARBOUR EAST INTERCEPTOR — MV SSWR-QLD
- SANITARY SEWER — SAN-QLD
- STORM SEWER — STM-QLD
- WATERMAIN — W-QLD

FROM COMMISSIONER STREET ROAD RE-ALIGNMENT PROJECT

- SANITARY SEWER TO BE REMOVED
- WATERMAIN TO BE REMOVED
- NEW SANITARY SEWER — SAN
- NEW STORM SEWER — ST
- NEW WATERMAIN — W

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **R.N.F./B.K.** DATE: **15-03-21**	DRAWN BY: **B.K.** DATE: **15-03-21**
CHECKED BY: **V.C.** DATE: **15-03-21**	PROJECT MANAGER: **I.M.** DATE: **15-03-21**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:500**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
C	03-08-21	ISSUED FOR 90% DESIGN	A.S.
B	15-03-21	ISSUED FOR REVIEW	B.K.
A	11-09-20	ISSUED FOR 30% REVIEW	R.N.F.

ENGINEERING PROJECTS - WEST

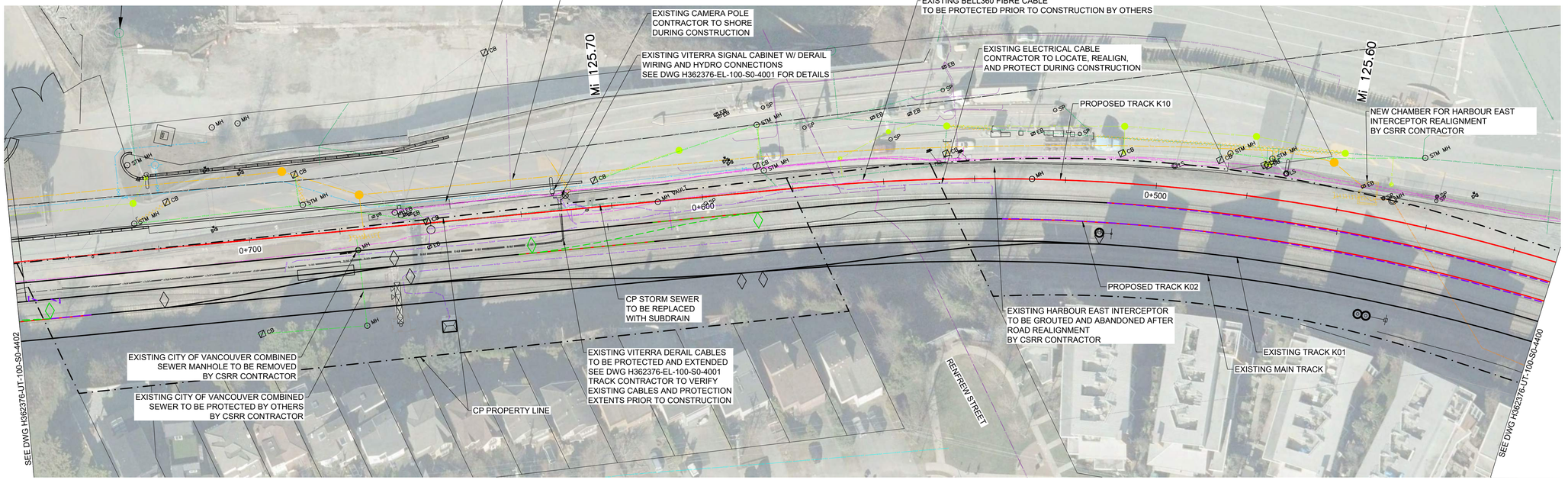
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION UTILITY CONFLICT PLAN SHEET 1 OF 8

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE: DATE:
M. FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-UT-100-S0-4400 Rev. C

Aug 03 , 2021 , 7:05pm Login name: mcke92314
Drawing Name: C:\pwworking\ri\mcke92314\d0694034\H362376-UT-100-S0-4407.dwg

NOT FOR CONSTRUCTION



PLAN

SCALE 1:500

5 m 0 1:500 25 m

UTILITIES LEGEND:

FROM UNDERHILL SURVEY - JUNE 2020

ELECTRICAL DUCT	EL-QLB
UNDERGROUND FIBRE OPTIC CABLES	FOC-QLB
GAS MAIN	GAS-QLB
HARBOUR EAST INTERCEPTOR	MV SSWR-QLB
SANITARY SEWER	SAN-QLB
STORM SEWER	STM-QLB
WATERMAIN	W-QLB
SANITARY	SAN FM-QLD

CATCH BASIN	CB
STORM / SEWER MANHOLE	MH
POWER POLE	PP
LAMP STANDARD	LS
EQUIPMENT BOX	EB
HYDRANT	FH
WATERMAIN VALVE	
GAS MAIN VALVE	

FROM RECORD DRAWINGS AND VFPA / CoV GIS DATA

COMBINED SEWER	COMB SSWR
UNDERGROUND COMM / TELEPHONE	COMMS
ELECTRICAL DISTRIBTUION	EL-QLD
FIBRE OPTIC CABLES	FOC-QLD
GAS MAIN	GAS-QLD
HARBOUR EAST INTERCEPTOR	MV SSWR-QLD
SANITARY SEWER	SAN-QLD
STORM SEWER	STM-QLD
WATERMAIN	W-QLD

FROM COMMISSIONER STREET ROAD RE-ALIGNMENT PROJECT

SANITARY SEWER TO BE REMOVED	
WATERMAIN TO BE REMOVED	
NEW SANITARY SEWER	SAN
NEW STORM SEWER	ST
NEW WATERMAIN	W

NOTES:

1. QUALITY LEVEL D UTILITIES SHOWN ARE FROM RECORD DRAWINGS FROM UTILITY OWNERS, CITY OF VANCOUVER AND VANCOUVER FRASER PORT AUTHORITY GIS RECORDS.
2. REFER TO REMOVAL DRAWINGS FOR STORM SEWER MODIFICATIONS.

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **R.N.F./B.K.** DATE: **15-03-21**	DRAWN BY: **B.K.** DATE: **15-03-21**
CHECKED BY: **V.C.** DATE: **15-03-21**	PROJECT MANAGER: **I.M.** DATE: **15-03-21**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:500**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
C	03-08-21	ISSUED FOR 90% DESIGN	A.S.
B	15-03-21	ISSUED FOR REVIEW	B.K.
A	11-09-20	ISSUED FOR 30% REVIEW	R.N.F.

ENGINEERING PROJECTS - WEST

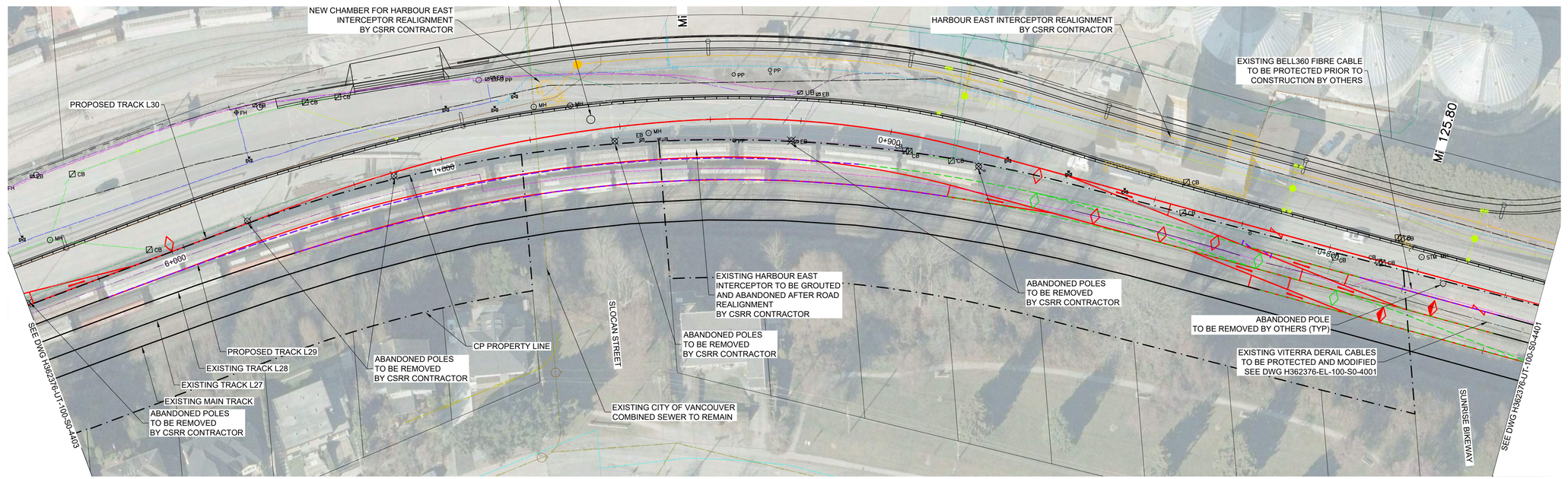
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION UTILITY CONFLICT PLAN SHEET 2 OF 8

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE: DATE:
M. FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-UT-100-S0-4401 Rev. C

Aug 03 , 2021 , 7:06pm Login name: mcke92314
Drawing Name: C:\pwworking\hh\mcke92314\d0694034\H362376-UT-100-S0-4407.dwg

NOT FOR CONSTRUCTION



TO VANCOUVER

FROM PORT COQUITLAM

PLAN

SCALE 1:500

5 m 0 1:500 25 m

NOTES:

1. QUALITY LEVEL D UTILITIES SHOWN ARE FROM RECORD DRAWINGS FROM UTILITY OWNERS, CITY OF VANCOUVER AND VANCOUVER FRASER PORT AUTHORITY GIS RECORDS.
2. REFER TO REMOVAL DRAWINGS FOR STORM SEWER MODIFICATIONS.

UTILITIES LEGEND:

FROM UNDERHILL SURVEY - JUNE 2020

ELECTRICAL DUCT	EL-QLB
UNDERGROUND FIBRE OPTIC CABLES	FOC-QLB
GAS MAIN	GAS-QLB
HARBOUR EAST INTERCEPTOR	MV SSWR-QLB
SANITARY SEWER	SAN-QLB
STORM SEWER	STM-QLB
WATERMAIN	W-QLB
SANITARY	SAN FM-QLD

CATCH BASIN	CB
STORM / SEWER MANHOLE	MH
POWER POLE	PP
LAMP STANDARD	LS
EQUIPMENT BOX	EB
HYDRANT	FH
WATERMAIN VALVE	
GAS MAIN VALVE	

FROM RECORD DRAWINGS AND VFPA / CoV GIS DATA

COMBINED SEWER	COMB SSWR
UNDERGROUND COMM / TELEPHONE	COMMS
ELECTRICAL DISTRIBTUION	EL-QLD
FIBRE OPTIC CABLES	FOC-QLD
GAS MAIN	GAS-QLD
HARBOUR EAST INTERCEPTOR	MV SSWR-QLD
SANITARY SEWER	SAN-QLD
STORM SEWER	STM-QLD
WATERMAIN	W-QLD

FROM COMMISSIONER STREET ROAD RE-ALIGNMENT PROJECT

SANITARY SEWER TO BE REMOVED	
WATERMAIN TO BE REMOVED	
NEW SANITARY SEWER	SAN
NEW STORM SEWER	ST
NEW WATERMAIN	W

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **R.N.F./B.K.** DATE: **15-03-21**	DRAWN BY: **B.K.** DATE: **15-03-21**
CHECKED BY: **V.C.** DATE: **15-03-21**	PROJECT MANAGER: **I.M.** DATE: **15-03-21**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:500**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC ("CLIENT") AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

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C	03-08-21	ISSUED FOR 90% DESIGN	A.S.
B	15-03-21	ISSUED FOR REVIEW	B.K.
A	11-09-20	ISSUED FOR 30% REVIEW	R.N.F.

ENGINEERING PROJECTS - WEST

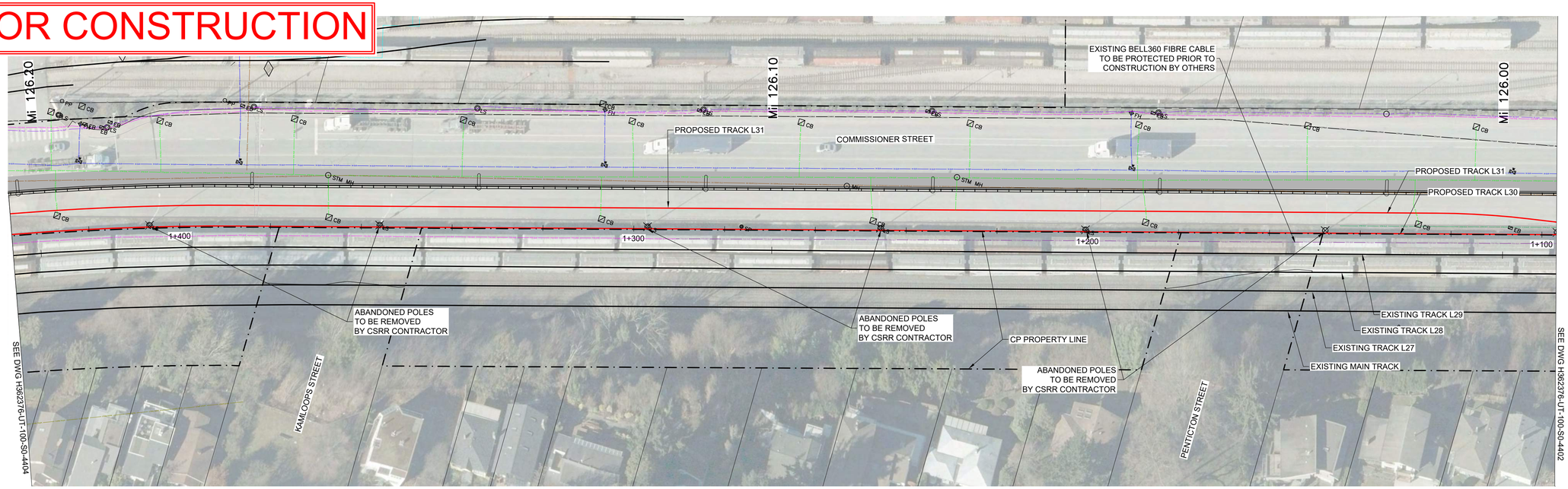
VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION UTILITY CONFLICT PLAN SHEET 3 OF 8

DWG. BY:	CHK BY:	OFFICE FILE:
MANAGER - DESIGN:		SCALE: DATE:
M. FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-UT-100-S0-4402 Rev. C

Aug 03 , 2021 , 7:07pm Login name: mcke92314
Drawing Name: C:\pwworking\hi\mcke92314\d0694034\H362376-UT-100-S0-4407.dwg

NOT FOR CONSTRUCTION



PLAN

SCALE 1:500

5 m 0 1:500 25 m

NOTES:

1. QUALITY LEVEL D SHOWN ARE FROM RECORD DRAWINGS FROM UTILITY OWNERS, CITY OF VANCOUVER AND VANCOUVER FRASER PORT AUTHORITY GIS RECORDS.
2. REFER TO REMOVAL DRAWINGS FOR STORM SEWER MODIFICATIONS.

UTILITIES LEGEND:

FROM UNDERHILL SURVEY - JUNE 2020

ELECTRICAL DUCT	EL-QLB
UNDERGROUND FIBRE OPTIC CABLES	FOC-QLB
GAS MAIN	GAS-QLB
HARBOUR EAST INTERCEPTOR	MV SSWR-QLB
SANITARY SEWER	SAN-QLB
STORM SEWER	STM-QLB
WATERMAIN	W-QLB
SANITARY	SAN FM-QLD

CATCH BASIN	CB
STORM / SEWER MANHOLE	MH
POWER POLE	PP
LAMP STANDARD	LS
EQUIPMENT BOX	EB
HYDRANT	FH
WATERMAIN VALVE	
GAS MAIN VALVE	

FROM RECORD DRAWINGS AND VFPA / CoV GIS DATA

COMBINED SEWER	COMB SSWR
UNDERGROUND COMM / TELEPHONE	COMMS
ELECTRICAL DISTRIBTUION	EL-QLD
FIBRE OPTIC CABLES	FOC-QLD
GAS MAIN	GAS-QLD
HARBOUR EAST INTERCEPTOR	MV SSWR-QLD
SANITARY SEWER	SAN-QLD
STORM SEWER	STM-QLD
WATERMAIN	W-QLD W-QLD

FROM COMMISSIONER STREET ROAD RE-ALIGNMENT PROJECT

SANITARY SEWER TO BE REMOVED	
WATERMAIN TO BE REMOVED	
NEW SANITARY SEWER	SAN SAN
NEW STORM SEWER	ST ST
NEW WATERMAIN	W W

HATCH

METRIC
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DESIGNED BY: **R.N.F./B.K.** DATE: 15-03-21	DRAWN BY: **B.K.** DATE: **15-03-21**
CHECKED BY: **V.C.** DATE: **15-03-21**	PROJECT MANAGER: **I.M.** DATE: **15-03-21**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:500**

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ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION UTILITY CONFLICT PLAN SHEET 4 OF 8

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE: DATE:
M. FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-UT-100-S0-4403 Rev. C

Aug 03 , 2021 , 7:08pm Login name: mcke92314
Drawing Name: C:\pwworking\ri\mcke92314\d0694034\H362376-UT-100-S0-4407.dwg

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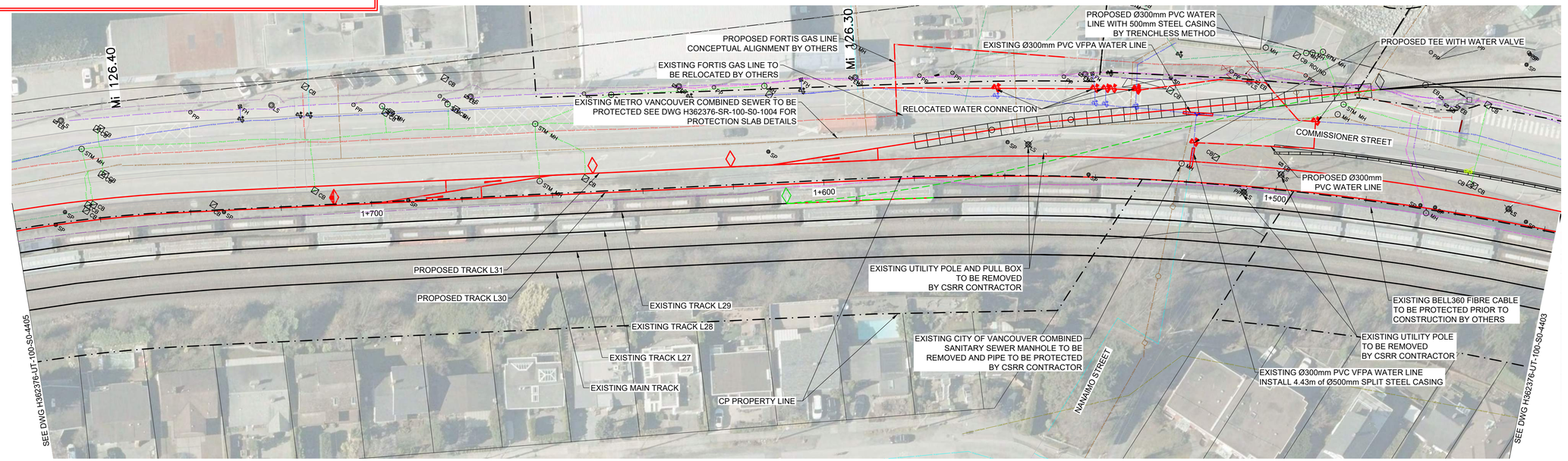

TO VANCOUVER

FROM PORT COQUITLAM

PLAN

SCALE 1:500

5 m 0 1:500 25 m

UTILITIES LEGEND:

FROM UNDERHILL SURVEY - JUNE 2020

ELECTRICAL DUCT	EL-QLB
UNDERGROUND FIBRE OPTIC CABLES	FOC-QLB
GAS MAIN	GAS-QLB
HARBOUR EAST INTERCEPTOR	MV SSWR-QLB
SANITARY SEWER	SAN-QLB
STORM SEWER	STM-QLB
WATERMAIN	W-QLB
SANITARY	SAN FM-QLD

CATCH BASIN	CB
STORM / SEWER MANHOLE	MH
POWER POLE	PP
LAMP STANDARD	LS
EQUIPMENT BOX	EB
HYDRANT	FH
WATERMAIN VALVE	
GAS MAIN VALVE	

FROM RECORD DRAWINGS AND VFPA / CoV GIS DATA

COMBINED SEWER	COMB SSWR
UNDERGROUND COMM / TELEPHONE	COMMS
ELECTRICAL DISTRIBTUION	EL-QLD
FIBRE OPTIC CABLES	FOC-QLD
GAS MAIN	GAS-QLD
HARBOUR EAST INTERCEPTOR	MV SSWR-QLD
SANITARY SEWER	SAN-QLD
STORM SEWER	STM-QLD
WATERMAIN	W-QLD

FROM COMMISSIONER STREET ROAD RE-ALIGNMENT PROJECT

SANITARY SEWER TO BE REMOVED	
WATERMAIN TO BE REMOVED	
NEW SANITARY SEWER	SAN
NEW STORM SEWER	ST
NEW WATERMAIN	W

NOTES:

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CHECKED BY: **V.C.** DATE: **15-03-21**	PROJECT MANAGER: **I.M.** DATE: **15-03-21**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:500**

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ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION UTILITY CONFLICT PLAN SHEET 5 OF 8

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE: DATE:
M. FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-UT-100-S0-4404 Rev. C

Aug 03 , 2021 , 7:08pm Login name: mcke92314
Drawing Name: C:\pwworking\ri\mcke92314\d0894034\H362376-UT-100-S0-4407.dwg

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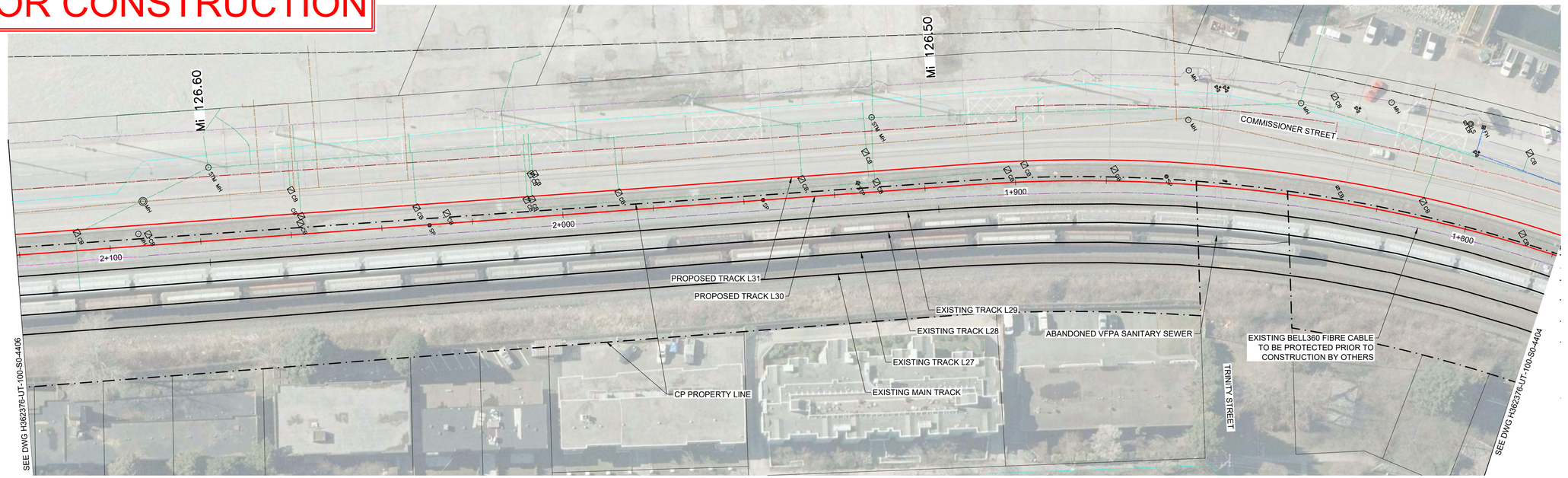

PLAN
SCALE 1:500
5 m 0 1:500 25 m

NOTES:

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UTILITIES LEGEND:

FROM UNDERHILL SURVEY - JUNE 2020

- ELECTRICAL DUCT — EL-QLB
- UNDERGROUND FIBRE OPTIC CABLES — FOC-QLB
- GAS MAIN — GAS-QLB
- HARBOUR EAST INTERCEPTOR — MV SSWR-QLB
- SANITARY SEWER — SAN-QLB
- STORM SEWER — STM-QLB
- WATERMAIN — W-QLB
- SANITARY — SAN FM-QLD

- CATCH BASIN — CB
- STORM / SEWER MANHOLE — MH
- POWER POLE — PP
- LAMP STANDARD — LS
- EQUIPMENT BOX — EB
- HYDRANT — FH
- WATERMAIN VALVE
- GAS MAIN VALVE

FROM RECORD DRAWINGS AND VFPA / CoV GIS DATA

- COMBINED SEWER — COMB SSWR
- UNDERGROUND COMM / TELEPHONE — COMMS
- ELECTRICAL DISTRIBTUION — EL-QLD
- FIBRE OPTIC CABLES — FOC-QLD
- GAS MAIN — GAS-QLD
- HARBOUR EAST INTERCEPTOR — MV SSWR-QLD
- SANITARY SEWER — SAN-QLD
- STORM SEWER — STM-QLD
- WATERMAIN — W-QLD

FROM COMMISSIONER STREET ROAD RE-ALIGNMENT PROJECT

- SANITARY SEWER TO BE REMOVED
- WATERMAIN TO BE REMOVED
- NEW SANITARY SEWER — SAN
- NEW STORM SEWER — ST
- NEW WATERMAIN — W

HATCH

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ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION UTILITY CONFLICT PLAN SHEET 6 OF 8

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE: DATE:
M. FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-UT-100-S0-4405 Rev. C

Aug 03 , 2021 , 7:09pm Login name: mcke92314
Drawing Name: C:\pwworking\ri\mcke92314\d0694034\H362376-UT-100-S0-4407.dwg

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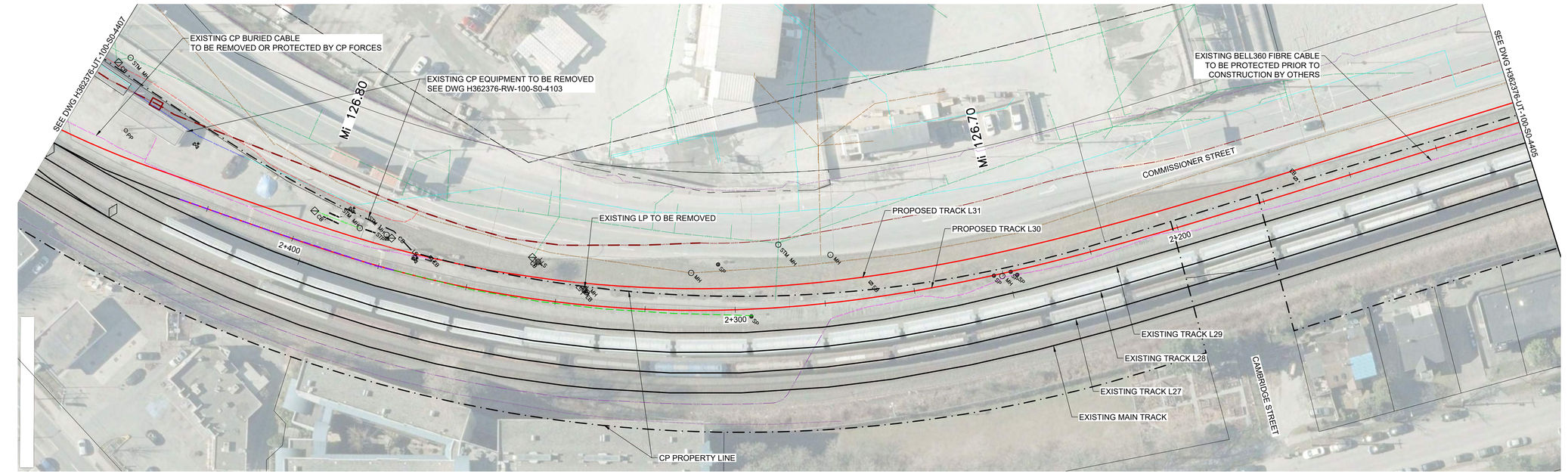

TO VANCOUVER

FROM PORT COQUITLAM

PLAN

SCALE 1:500

5 m 0 1:500 25 m

UTILITIES LEGEND:

FROM UNDERHILL SURVEY - JUNE 2020

- ELECTRICAL DUCT
- UNDERGROUND FIBRE OPTIC CABLES — FOC-QLB
- GAS MAIN — GAS-QLB
- HARBOUR EAST INTERCEPTOR — MV SSWR-QLB
- SANITARY SEWER — SAN-QLB
- STORM SEWER — STM-QLB
- WATERMAIN — W-QLB
- SANITARY — SAN FM-QLD

- CATCH BASIN — CB
- STORM / SEWER MANHOLE — MH
- POWER POLE — PP
- LAMP STANDARD — LS
- EQUIPMENT BOX — EB
- HYDRANT — FH
- WATERMAIN VALVE
- GAS MAIN VALVE

FROM RECORD DRAWINGS AND VFPA / CoV GIS DATA

- COMBINED SEWER — COMB SSWR
- UNDERGROUND COMM / TELEPHONE — COMMS
- ELECTRICAL DISTRIBTUION — EL-QLD
- FIBRE OPTIC CABLES — FOC-QLD
- GAS MAIN — GAS-QLD
- HARBOUR EAST INTERCEPTOR — MV SSWR-QLD
- SANITARY SEWER — SAN-QLD
- STORM SEWER — STM-QLD
- WATERMAIN — W-QLD

FROM COMMISSIONER STREET ROAD RE-ALIGNMENT PROJECT

- SANITARY SEWER TO BE REMOVED
- WATERMAIN TO BE REMOVED
- NEW SANITARY SEWER — SAN
- NEW STORM SEWER — ST
- NEW WATERMAIN — W

NOTES:

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HATCH

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HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:500**

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CP

ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
UTILITY CONFLICT PLAN
SHEET 7 OF 8

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE: DATE:
M. FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-UT-100-S0-4406 Rev. C

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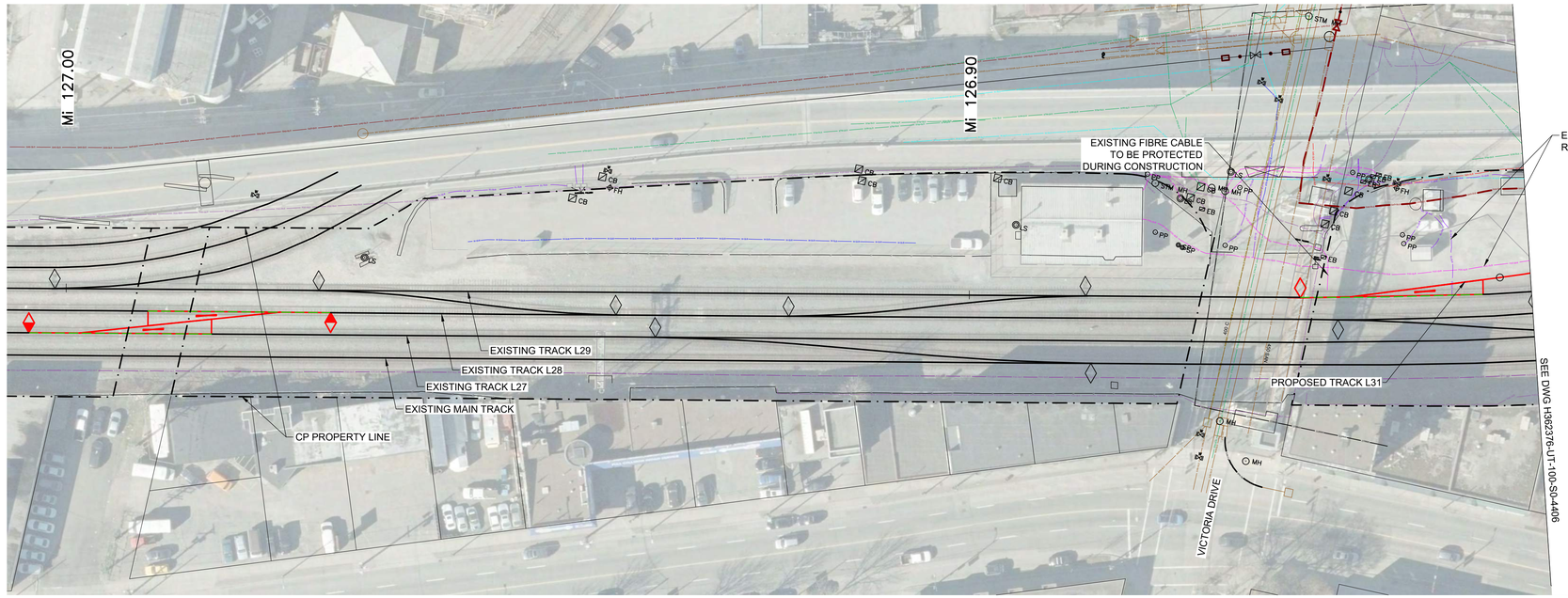

PLAN

SCALE 1:500

5 m 0 1:500 25 m

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- SANITARY — SAN FM-QLD

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- LAMP STANDARD — LS
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- GAS MAIN VALVE

FROM RECORD DRAWINGS AND VFPA / CoV GIS DATA

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- UNDERGROUND COMM / TELEPHONE — COMMS
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- SANITARY SEWER — SAN-QLD
- STORM SEWER — STM-QLD
- WATERMAIN — W-QLD

FROM COMMISSIONER STREET ROAD RE-ALIGNMENT PROJECT

- SANITARY SEWER TO BE REMOVED
- WATERMAIN TO BE REMOVED
- NEW SANITARY SEWER — SAN
- NEW STORM SEWER — ST
- NEW WATERMAIN — W

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ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION UTILITY CONFLICT PLAN SHEET 8 OF 8

DWG. BY: CHK BY:	OFFICE FILE:
MANAGER - DESIGN:	SCALE: DATE:
M. FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-UT-100-S0-4407 Rev. C

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NOTES

A. REFERENCE DRAWINGS, CODES, AND STANDARDS

1. GEOTECHNICAL REPORT "GEOTECHNICAL ASSESSMENT FOR CP EAST L YARD EXPANSION, DOCUMENT NO. VGE003800–01_01 REV.C, DATED AUGUST 5, 2021, PREPARED BY TETRA TECH.
2. CSA S16–14 DESIGN OF STEEL STRUCTURES
3. CSA A23.1–14 CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION
4. CSA A23.2–14 TEST METHODS AND STANDARD PRACTICES FOR CONCRETE
5. CSA A23.3–14 DESIGN OF CONCRETE STRUCTURES
6. CSA A23.4–16 PRECAST CONCRETE
7. SEGMENTS OF THE CANADIAN HIGHWAY BRIDGE DESIGN CODE CSA S6–14 (CHBDC)
8. SEGMENTS OF THE CANADIAN FOUNDATION ENGINEERING MANUAL (CFEM) 4TH EDITION
9. AREMA MANUAL FOR RAIL ENGINEERING 2021
10. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2016, BRITISH COLUMBIA, MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE.

B. DESIGN ASSUMPTIONS

1. THE CURRENT DESIGN SCHEME ILLUSTRATES A PERMANENT RETAINING WALL HAVING AN ANTICIPATED SERVICE LIFE OF 75 YEARS.
2. FOR SEISMIC DESIGN CONSIDERATION, A RETURN PERIOD OF 475 YEARS HAS BEEN USED.
3. TL–4 PRECAST CONCRETE ROAD BARRIER HAS BEEN USED ABOVE THE RETAINING WALL, REFER TO DRAWING SP941.02.01.07, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2016, BRITISH COLUMBIA, MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE.

C. DESIGN PARAMETERS

1. THE RETAINING WALL IS DESIGNED BASED ON THE FOLLOWING SOIL PARAMETERS THAT ARE PROVIDED IN THE PROJECT'S GEOTECHNICAL REPORT.

SOIL (KN/m^3)	Ka	Ko	Kp
21	0.28	0.5	3

2. ROADWAY SURCHARGE TO FOLLOW CANADIAN HIGHWAY BRIDGE DESIGN CODE 6.12.5
3. RAILROAD SURCHARGE AREMA COOPER E90 LOADING.
4. THE RETAINING WALL IS NOT DESIGNED TO RESIST HYDROSTATIC PRESSURE SINCE WATER IS NOT EXPECTED TO ACCUMULATE BEHIND THE WALL AS PER GEOTECHNICAL RECOMMENDATIONS.

D. MATERIALS

1. STEEL STRUCTURE
   a. STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA G40.20–13/G40.21–13, GRADE 350AT.
   b. STEEL HP SHAPES SHALL CONFORM TO ASTM A572 GR. 50 (Fy=345 MPa), STEEL PLATES FOR SPLICING SHALL CONFORM TO CSA G40.21 350W.
   c. ALTERNATIVE GRADES OR SECTIONS OF EQUIVALENT STRENGTH/STIFFNESS MAY BE SUBSTITUTED SUBJECT TO HATCH'S APPROVAL.
   d. ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF CSA W59 AND CSA S16.
   e. ALL WELDING TO BE CARRIED OUT BY A CWB W47.1 CERTIFIED COMPANY WITH CWB CERTIFIED WELDERS AND INSPECTED BY A CWB CERTIFIED INSPECTOR.
   f. ALL WELDS SHOWN OR IMPLIED ON THIS DRAWING SET ARE TO BE 10MM FILLET, ALL AROUND AND BOTH SIDES, UNLESS NOTED OTHERWISE.

2. CONCRETE
   a. 30MPA FOR CONCRETE IN SOLDER PILE TOES.
   b. CONCRETE EXPOSURE CLASS C–1 WITH MIN. COMPRESSIVE STRENGTH OF 35 MPa AT 28 DAYS.
   c. THE USE OF DOWN–THE–HOLE MIXED TOES UTILIZING PORTLAND CEMENT BAGS IS NOT PERMITTED.
   d. CONCRETE MINIMUM COVER TO REINFORCEMENT TO BE AS FOLLOWS (mm):
      –SURFACES CAST AGAINST EARTH 75
      –OTHER SURFACES NOT SPECIFIED ABOVE 50
   e. CONCRETE MATERIALS, TESTING METHODS AND CONSTRUCTION PRACTICES FOR REINFORCED CONCRETE SHALL CONFORM TO CAN/CSA A23.1/A23.2.
   f. ROUGHENED CONCRETE SURFACES AND ALL CONSTRUCTION JOINTS SHALL BE WET ABRASIVE BLAST CLEANED TO SOUND CONCRETE IN ACCORDANCE WITH ASTM STANDARD D4259 TO A MINIMUM PROFILE 6mm.
   g. TOP SURFACE OF CONCRETE SLABS SHALL RECEIVE BROOM FINISH.

3. REINFORCING STEEL
   a. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA–G30.18 GRADE 400W.
   b. SPLICING OF REINFORCING STEEL, OTHER THAN AT LOCATIONS SHOWN ON THE DRAWINGS, REQUIRES ENGINEER'S APPROVAL.
   c. WELDED SPLICES AND OTHER MECHANICAL CONNECTIONS SHALL DEVELOP AT LEAST 125% OF SPECIFIED YIELD STRENGTH OF THE BAR.
   d. LAP SPLICES SHALL BE CLASS "B" AND MEET THE MINIMUM LAP LENGTH REQUIREMENTS OF THE FOLLOWING TABLE:

BAR SIZE	LAP LENGTH (mm)	
	BOTTOM BAR	TOP BAR*
10M	365	510
15M	515	720
20M	630	880
25M	920	1285
30M	1295	1810
35M	1840	2580

* TOP BARS ARE HORIZONTAL REINFORCING BARS SO PLACED THAT MORE THAN 300mm OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.

3. PRE–CAST CONCRETE LAGGING PANELS COMPLETE WITH DRAINAGE LAYER SHALL CONFORM TO CSA A23.4–14 AND SHALL BE BE DESIGNED AND SUPPLIED BY OTHERS. CONTRACTOR TO SUBMIT CONCRETE PANEL SHOP DRAWING TO ENGINEER PRIOR TO PROCUREMENT

E. GENERAL NOTES

1. OWNER TO SECURE ENCROACHMENT AGREEMENTS AND MUNICIPAL PERMITS WHERE COMPONENTS OF THE RETAINING WALL SYSTEM EXTEND BEYOND PROJECT PROPERTY BOUNDARIES.
2. GENERAL CONTRACTOR TO PROVIDE AND MAINTAIN AN ENGINEERED WORKING PLATFORM SUITABLE FOR RETAINING WALL CONSTRUCTION EQUIPMENT.
3. CONTRACTOR TO LOCATE AND PROTECT EXISTING UTILITIES DURING CONSTRUCTION.
4. UTILITIES SHOWN ON THE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE BASED ON UTILITY DRAWINGS UTILITY SURVEY. CONTRACTOR TO FIELD VERIFY UTILITY LOCATIONS AND NOTIFY ENGINEER OF ANY UTILITIES LOCATED IN THE FIELD NOT IDENTIFIED ON UTILITY DRAWINGS. PROTECT AND/OR RELOCATE UTILITIES AS NOTED ON THE UTILITY DRAWINGS OR AS DIRECTED BY THE ENGINEER.
5. EVALUATION FOR SHORING REQUIREMENT DURING CONSTRUCTION WORKS AND ITS DESIGN SHALL BE PERFORMED BY CONTRACTOR'S ENGINEER.
6. ADVISE HATCH OF ANY POTENTIAL INTERFERENCE WITH ELEMENTS OF THE RETAINING WALL SYSTEM THAT MAY REQUIRE REDESIGN. REPORT ANY DISCREPANCIES TO HATCH.
7. CONTRACTOR TO LAY OUT PILE LOCATIONS AND CHECK ALL DIMENSIONS. REPORT ANY DISCREPANCIES TO THE ENGINEER HATCH.

F. PROPOSED PROCEDURE FOR RETAINING WALL CONSTRUCTION

1. DRILL HOLES FOR PILES, UTILIZING TEMPORARY LINERS, DRILLING SLURRY/TREMIE METHODS, AND/OR OTHER TECHNIQUES AS NECESSARY TO PREVENT GROUNDWATER INFILTRATION OR LOSS OF SOIL.
2. PROVIDE DRILL HOLES LARGE ENOUGH THAT PILES MAY BE SET PLUMB DESPITE THE MISALIGNMENT OF DRILL HOLES.
3. SET PILES 1 DEGREE TOWARDS THE RETAINED SOIL, AND FILL HOLES WITH SPECIFIED CONCRETE. WITHDRAW TEMPORARY LINERS IF USED.
4. EXCAVATE DOWN TO REQUIRED DEPTH OF DRAINAGE WHILE INSTALLING CONCRETE PANELS AS EXCAVATION REACHES PANEL HEIGHT. INSTALL PANELS FROM TOP DOWN.
5. INSTALL DRAINAGE SYSTEM.
6. BACKFILL BEHIND WALL IN STAGES TO SUIT COMPACTION. BACKFILL OVER DRAINAGE SYSTEM TO FINAL WALL HEIGHT.

G. FIELD REVIEW AND MONITORING

1. ALL PILES ARE TO BE INSPECTED FULL–TIME ON SITE BY GEOTECHNICAL ENGINEER TO CONFIRM SOIL TYPE SOCKET LENGTHS AS SPECIFIED ON THESE DRAWINGS ARE ACHIEVED. CONTRACTOR TO CONFIRM NATIVE SOIL ELEVATION DURING DRILLING AND NOTIFY HATCH OF ANY DISCREPANCIES.

H. WINTER PROTECTION BY GENERAL CONTRACTOR

1. PROTECT RETAINING WALL AND/OR SLOPE FACES FROM THE EFFECTS OF FROST DURING THE CONSTRUCTION.

I. HEALTH AND SAFETY

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE LATEST VERSION OF THE OCCUPATIONAL HEALTH AND SAFETY ACT.
2. FALL PREVENTION MEASURES (GUARD RAILS OR EQUIVALENT, DESIGNED IN ACCORDANCE WITH OHSA REQUIREMENTS) SHALL BE PLACED AROUND ENTIRE SHORING PERIMETER TO ALLOW ACCESS TO TOP OF RETAINING WALL FOR INSPECTION AND/OR MONITORING. IN CERTAIN CASES, GENERAL CONTRACTOR MAY BE REQUIRED TO PROVIDE SAFE ACCESS TO TOP OF SHORING WALLS BY INSTALLING TEMPORARY PEDESTRIAN DECKING.

E. GEOTECHNICAL NOTES FOR PROTECTION SLAB

1. INDIVIDUAL PILES AND PILE GROUPS SHALL MEET THE MINIMUM LOAD REQUIREMENTS UNDER THE SERVICE LOAD INDICATED ON THE DRAWINGS.
2. CONTRACTOR TO SUBMIT EGBC – P.ENG STAMPED LETTER CERTIFYING PILE CAPACITIES UPON COMPLETION.
3. PREDRILL OVERSIZED HOLE TO INSTALL HP PILES.
4. VIBRATION AND SETTLEMENT MONITORING SHOULD BE PERFORMED BY CONTRACTOR DURING THE PILE INSTALLATION TO ENSURE VIBRATION AND/OR SETTLEMENTS DO NOT EXCEED THE THRESHOLD VALUES PROVIDED BY THE UTILITY OWNERS (CoV AND METRO VANCOUVER PROXIMAL WORKS)
5. THE MAXIMUM VIBRATION LIMIT IS 25mm/s CONTRACTOR TO VERIFY THE LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND CONFIRM THAT THIS IS CONSISTENT WITH PROTECTION SLAB STATIONS.
6. AN EXECUTION PLAN INCLUDING INSTALLATION PROCEDURE AND EQUIPMENT SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER (PRIOR TO CONSTRUCTION). DRIVEABILITY ANALYSES SHALL BE PERFORMED TO DETERMINE THE REQUIRED HAMMER TO INSTALL THE PILES TO DESIGN DEPTH AND CAPACITY. SET VALUES FOR THE HAMMER TO BE USED WILL BE REVIEWED BY THE ENGINEER.
7. CONTRACTOR SHALL COORDINATE WITH ENGINEER TO SCHEDULE AN INSPECTION ONCE EXCAVATION IS CARRIED OUT TO DESIGN ELEVATIONS.
8. PILES SHALL BE INSTALLED TO MINIMUM LENGTH OF 8.5m AS PER GEOTECHNICAL RECOMMENDATIONS. SHOULD REFUSAL BE ENCOUNTERED AT ELEVATIONS ABOVE THAT SPECIFIED, THE INSTALLATION RECORDS SHALL BE SUBMITTED FOR FURTHER EVALUATION AND THE INSTALLATION MAY NOT BE ACCEPTED.
9. ALL PILES SHALL BE INSTALLED SUCH THAT THE LOCATION AT THE TOP OF THE PILE IS WITHIN +/– 25 mm OF THE SPECIFIED LOCATION
7. VERTICALITY TOLERANCE OF PILES TO BE WITHIN 0.5% OF EXCAVATION HEIGHT.
8. ALL INSTALLATION RECORDS SHALL BE SUBMITTED TO THE ENGINEER.

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **S.R.** DATE: 11-09-20	DRAWN BY: **F.T.** DATE: **11-09-20**
CHECKED BY: **S.R.** DATE: **11-09-20**	PROJECT MANAGER: **I.M.** DATE: **11-09-20**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (CLIENT) AND IS ISSUED PURSUANT TO THE HATCH CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
B	03-08-21	ISSUED FOR 90% DESIGN	F.T.
A	11-09-20	ISSUED FOR 30% DESIGN	F.T.

CP

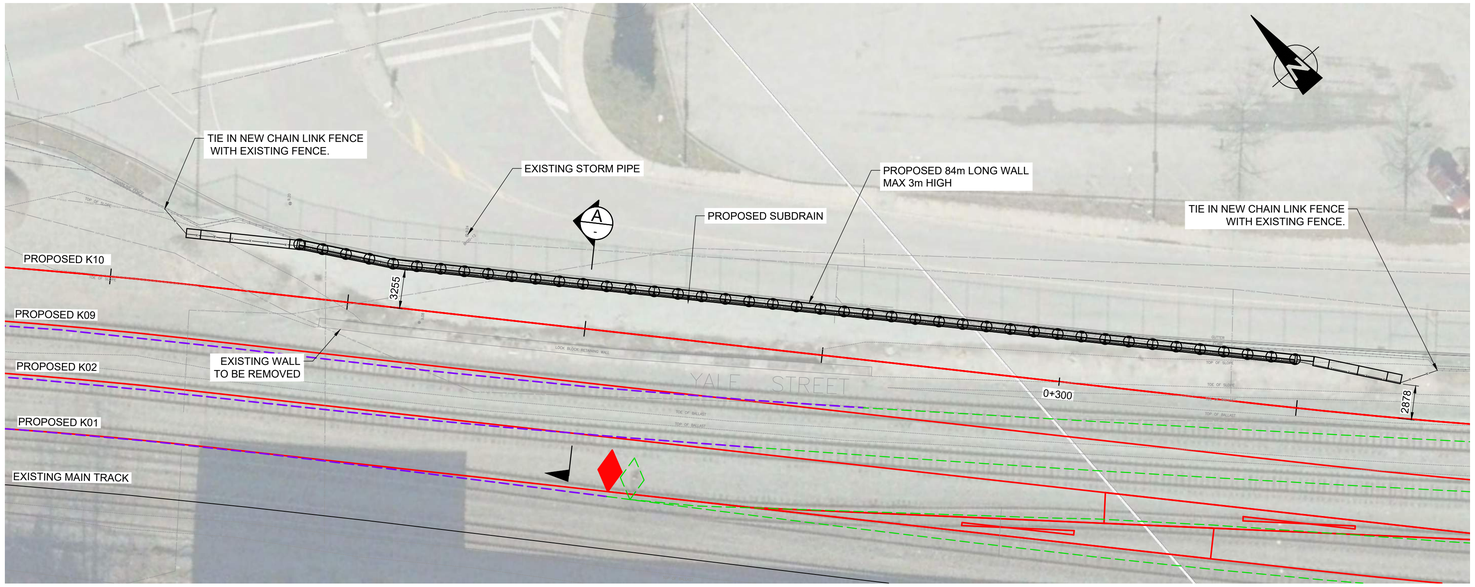
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION STRUCTURES GENERAL NOTES

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-SR-100-S0-1000 Rev. B

Aug 03 , 2021 , 5:22pm Login name: PIZZ870033
Drawing Name: C:\pwworking\hh\pizz870033\d0694077\H362376-SR-100-S0-01.dwg



PLAN
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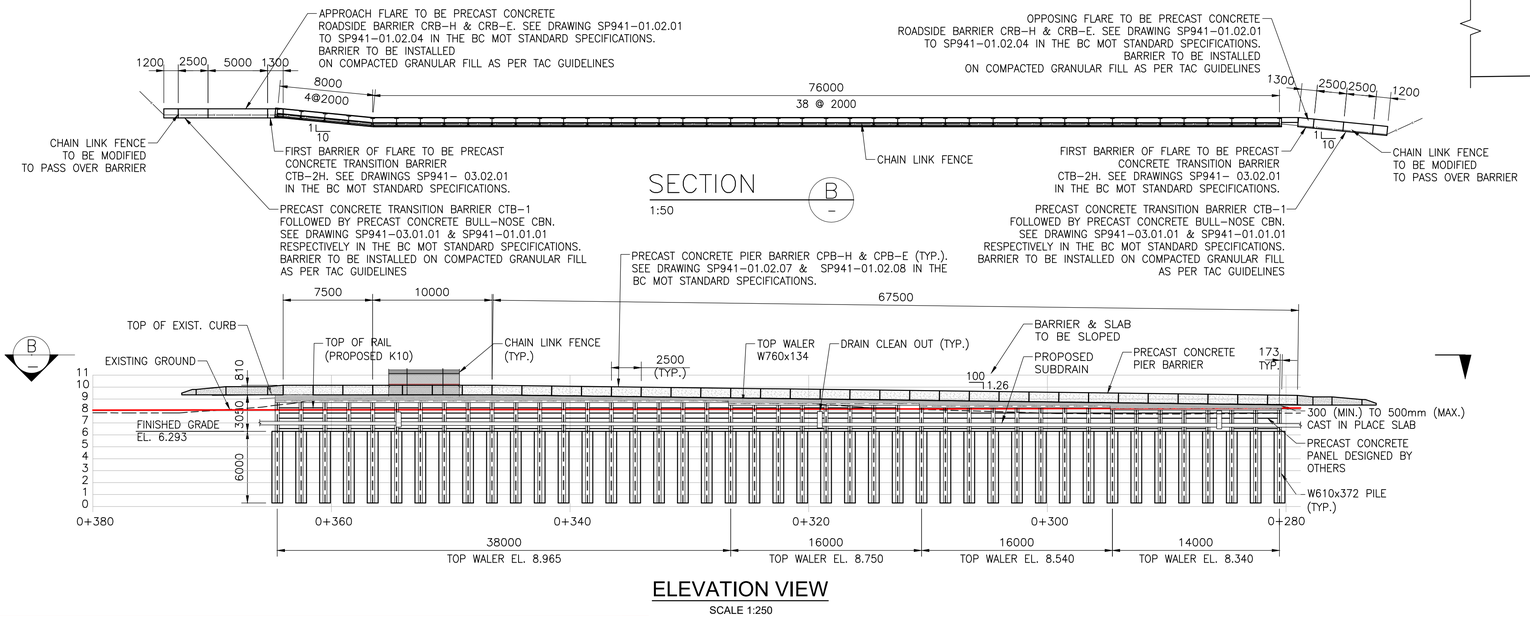
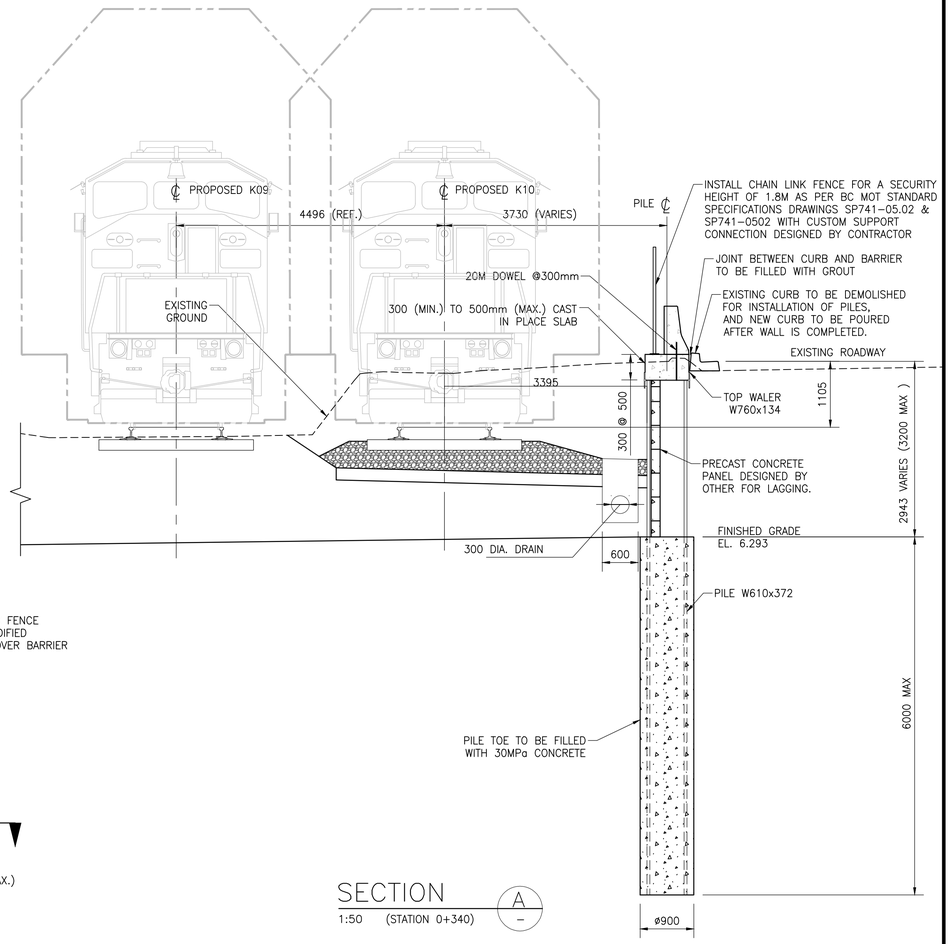


SECTION
1:50 B

ELEVATION VIEW
SCALE 1:250

NOTES

FOR GENERAL NOTES AND SPECIFICATIONS SEE DRAWING H362376–SR–100–S0–1000.



SECTION
1:50 (STATION 0+340) A

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HATCH

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DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
S.R. DATE: 11-09-20	**F.T.** DATE: **11-09-20**
CHECKED BY:	PROJECT MANAGER:
S.R. DATE: **11-09-20**	**I.M.** DATE: **11-09-20**
HATCH PROJECT No:	DWG SCALE(FULL SIZE):
H362376	**AS SHOWN**

PROFESSIONAL SEALS

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF CANADIAN PACIFIC (CLIENT) AND IS ISSUED PURSUANT TO THE HATCH-CP ENGINEERING SERVICES AGREEMENT AND RELEVANT PURCHASE ORDER BETWEEN CLIENT AND HATCH CORPORATION ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR MISUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.

No.	DATE	REVISION	BY
B	03-08-21	ISSUED FOR 90% DESIGN	F.T.
A	11-09-20	ISSUED FOR 30% DESIGN	F.T.

ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION STRUCTURES - RETAINING WALL GENERAL ARRANGEMENT

DWG. BY:	CHK BY:	OFFICE FILE:	
MANAGER - DESIGN:		SCALE:	
		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-SR-100-S0-1001	Rev. B

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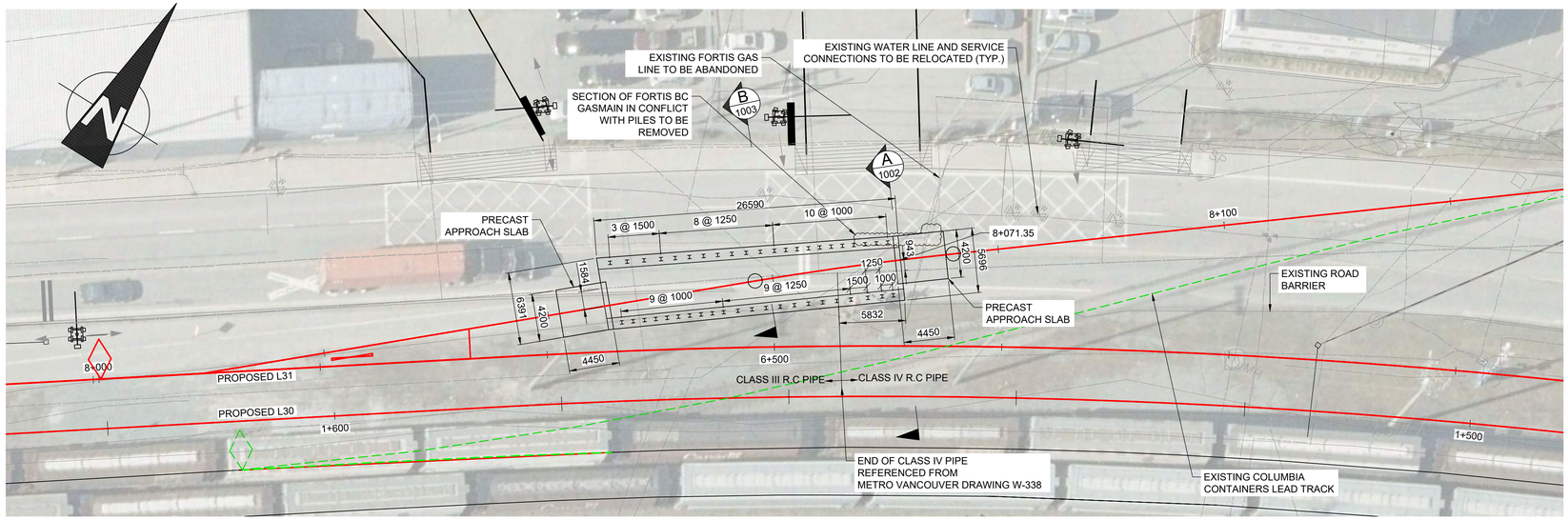


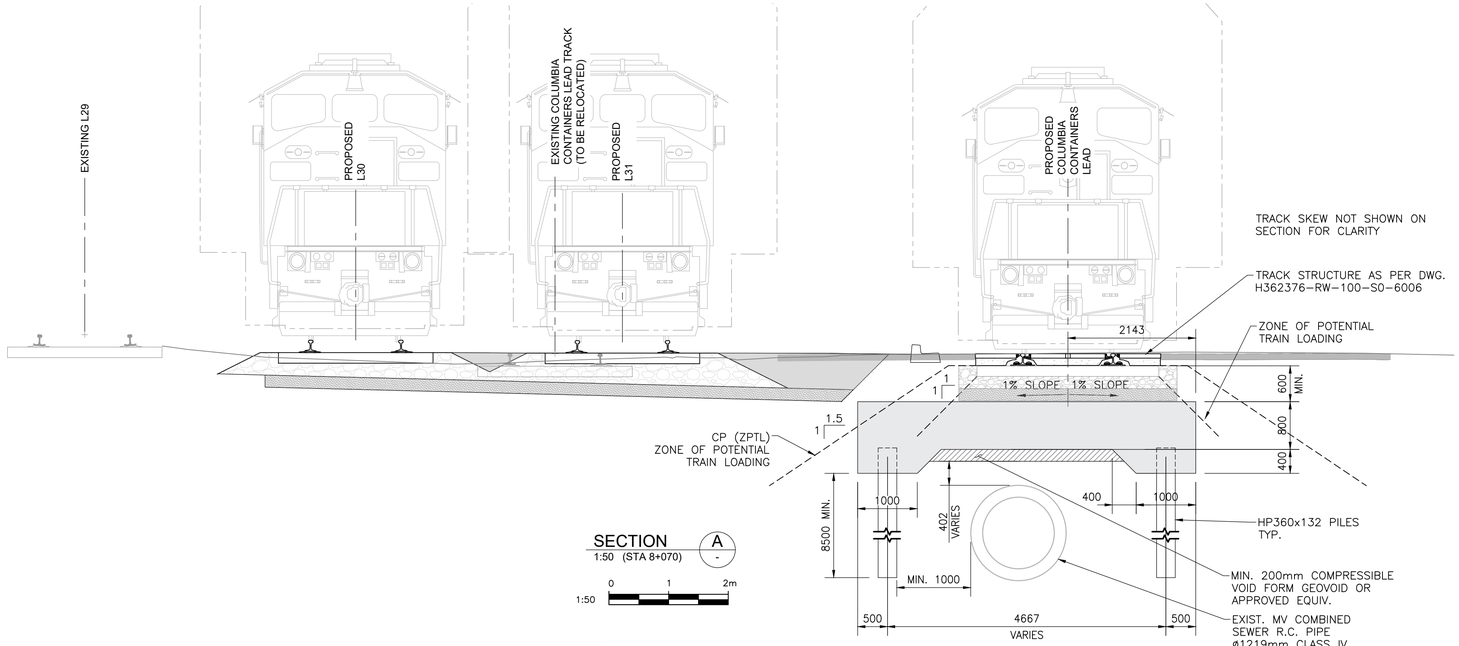
PLAN

SCALE 1:250

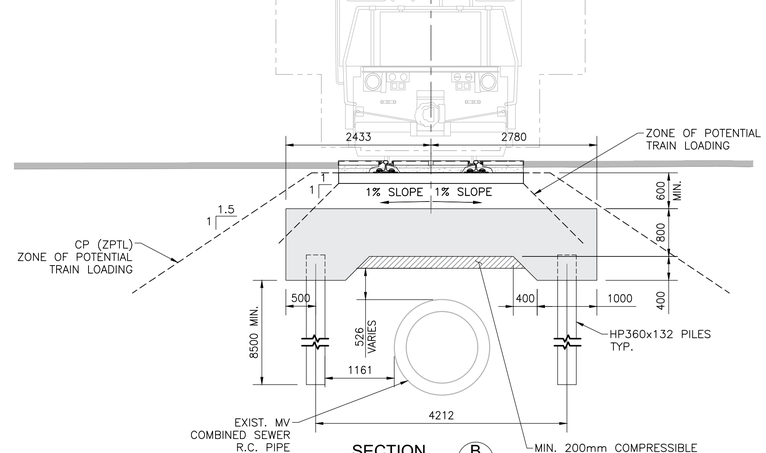
1:250 0 5 10m

NOTES

- FOR GENERAL NOTES AND SPECIFICATIONS SEE DRAWING H362376-SR-100-S0-1000.
- PILE EMBEDMENT DEPTH SHALL BE A MINIMUM OF 8.5m AS PER GEOTECHNICAL RECOMMENDATIONS.
- PILES ARE DESIGNED FOR THE FOLLOWING SERVICE LOADS:
  - 500 kN TOTAL VERTICAL LOAD,
  - 32 kN TOTAL HORIZONTAL LOAD.
- PILE DEFLECTION UNDER HORIZONTAL LOAD SHALL NOT EXCEED 25mm.



SECTION A
1:50 (STA 8+070)
1:50 0 1 2m



SECTION B
1:50 (STA 8+060)
1:50 0 1 2m

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY: **S.R.** DATE: 03/08/21	DRAWN BY: **F.T.** DATE: **03/08/21**
CHECKED BY: **A.M.** DATE: **03/08/21**	PROJECT MANAGER: **I.M.** DATE: **03/08/21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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A	03-08-21	ISSUED FOR 90% DESIGN	F.T.

ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION
STRUCTURES - PROTECTION SLAB
GENERAL ARRANGEMENT

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-SR-100-S0-1002 Rev. A

Aug 03 , 2021 , 7:29pm Login name: mcke92314
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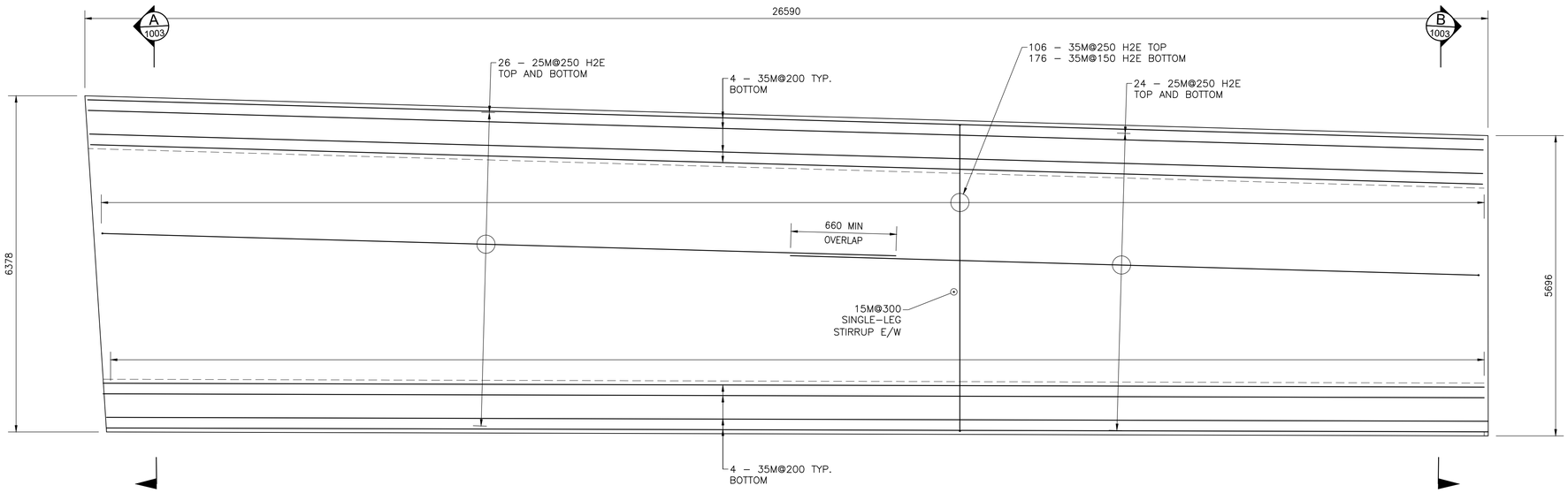


REINFORCING PLAN

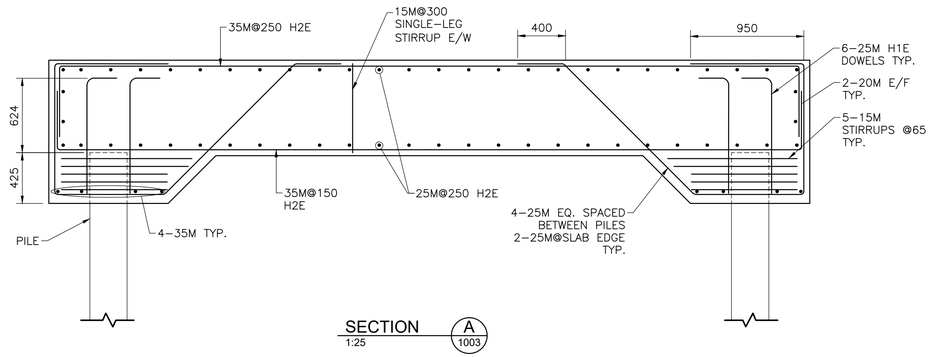
SCALE 1:50

NOTES

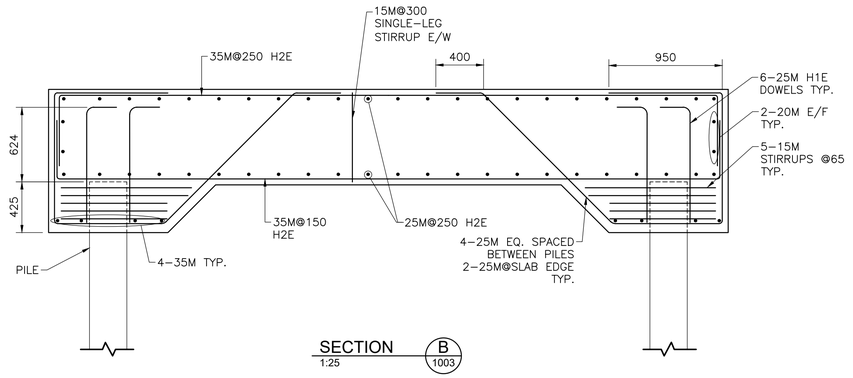
– FOR GENERAL NOTES AND SPECIFICATIONS SEE DRAWING H362376–SR–100–S0–1000.

ABBREVIATIONS:

H1E – HOOK AT ONE END
H2E – HOOK AT TWO ENDS
E/F – EACH FACE
E/W – EACH WAY
TYP. – TYPICAL
ZPTL – ZONE OF POTENTIAL TRAIN LOADING



SECTION A 1003
1:25



SECTION B 1003
1:25

NOT FOR CONSTRUCTION

HATCH

METRIC
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DESIGNED BY:	DRAWN BY:
S.R. DATE: 03/08/21	**F.T.** DATE: **03/08/21**
CHECKED BY: **A.M.** DATE: **03/08/21**	PROJECT MANAGER: **I.M.** DATE: **03/08/21**
HATCH PROJECT No: **H362376**	DWG SCALE(FULL SIZE): **AS SHOWN**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	F.T.

ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION MILE 125.37 TO 127.00 CASCADE SUBDIVISION

EAST L YARD EXPANSION STRUCTURES - PROTECTION SLAB REINFORCING PLAN & SECTIONS

DWG. BY: CHK BY:	OFFICE FILE:
	SCALE:
MANAGER - DESIGN:	DATE:
M.FAVREAU DIR. PROJECT SERVICES WEST	PLAN No. H362376-SR-100-S0-1003 Rev. A

Aug 03 , 2021 , 5:40pm Login name: PIZZ870033
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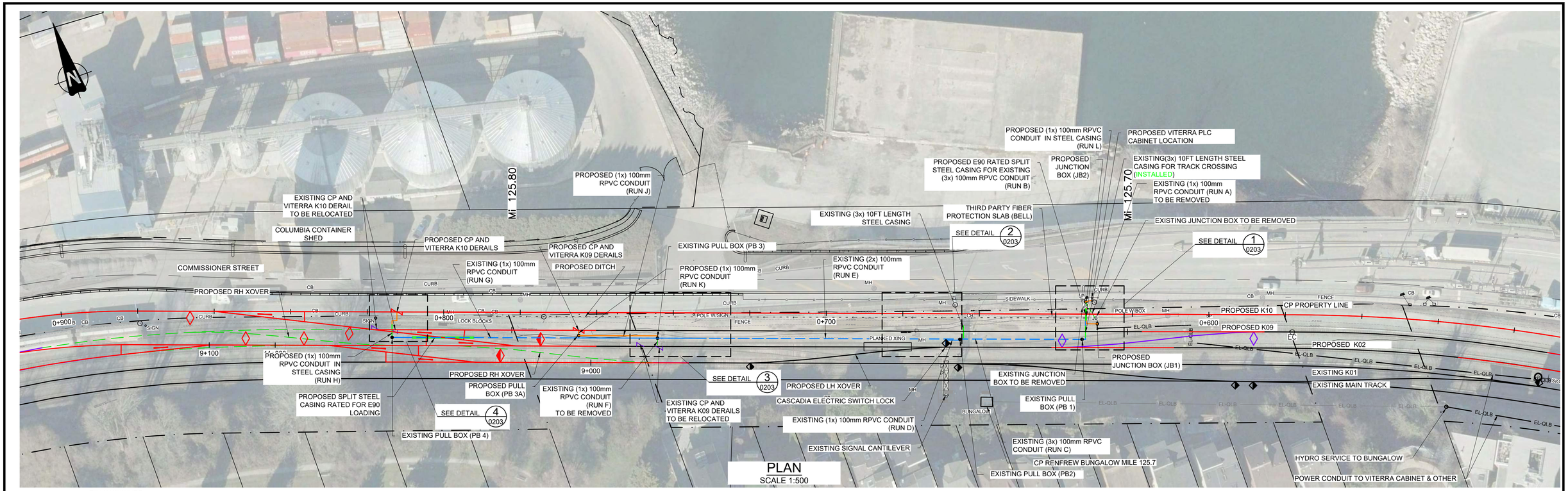
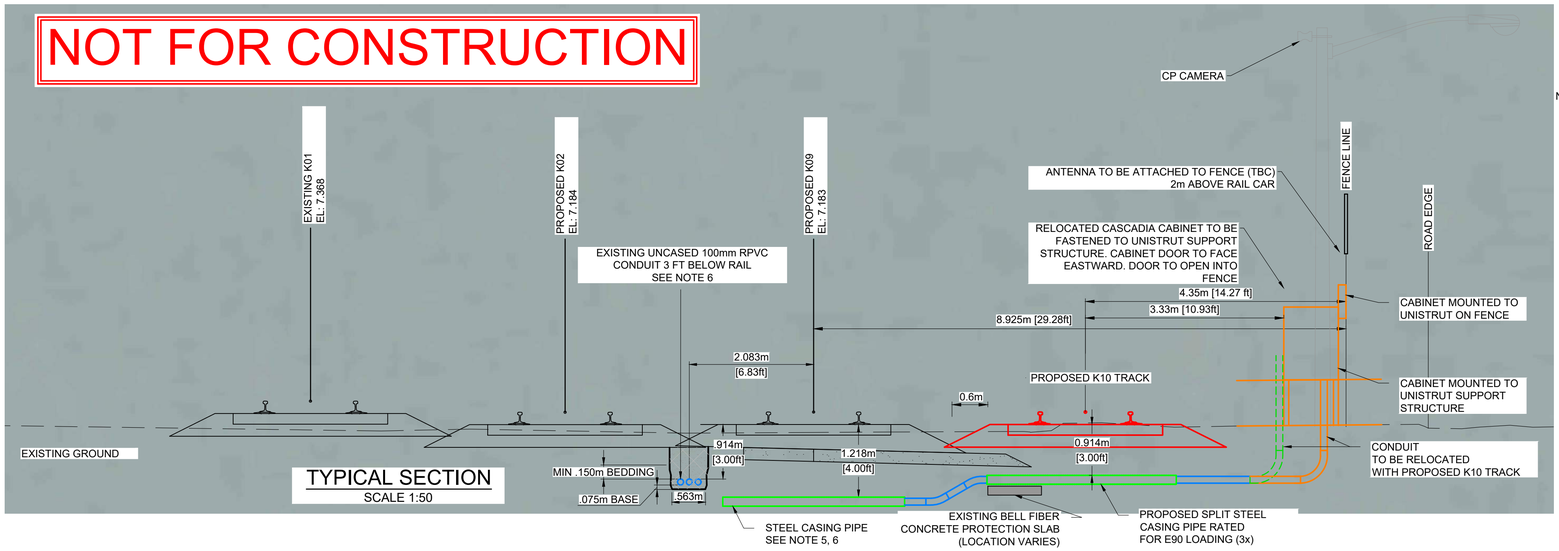


SUMMARY OF QUANTITIES (100mm RPVC CONDUIT)

RUN	DESCRIPTION	NEW	# OF CONDUIT	LENGTH (m)
A	DECOMMISSIONED CP CABINET TO CASCADIA CABINET (REMOVE)		1	6
B	JUNCTION BOX (JB2) TO PULL BOX (PB1)		3	14
C	PULL BOX (PB1) TO PULL BOX (PB2)		3	34
D	PULL BOX (PB2) TO ELECTRIC SWITCH LOCK		1	6
E	PULL BOX (PB2) TO PULL BOX (PB3)		2	82
F	PULL BOX (PB3) TO OLD DERAIL 1 LOCATION (REMOVE)		1	4
G	PULL BOX (PB3) TO PULL BOX (PB4)		1	71
H	PULL BOX (PB4) TO NEW DERAIL 2 LOCATION	X	1	12
J	PULL BOX (PB3) TO PULL BOX (PB3A)	X	1	26
K	PULL BOX (PB3A) TO NEW DERAIL 1 LOCATION	X	1	4
L	JUNCTION BOX (JB2) TO JUNCTION BOX (JB1)	X	1	17
M	CASCADIA CABINET TO JUNCTION BOX (JB2)	X	4	4
	TOTAL NEW CONDUIT LENGTH:			75
	TOTAL CONDUIT LENGTH:			470

*SEE NOTE 2

NOT FOR CONSTRUCTION



TYPICAL SECTION
SCALE 1:50

TO PORT COQUITLAM

NOTES:
1. PROPOSED CONDUIT TO BE 100mm (4") RPVC
2. INCLUDES 2m ADDITIONAL CONDUIT FOR ELEVATION DIFFERENCES
3. DEPTH OF CONDUIT AND CASING TBC PENDING FURTHER DISCUSSION WITH CP AND THIRD PARTIES
4. INSTALLED STEEL CASING PIPE TO BE GALVANIZED RIGID CASING, MEETS COOPER E80 LOADING AT 4FT DEPTH BELOW RAIL AND CSA 22.3 NO.7 SECTION 11.3.1 FOR STEEL CASING PIPE MATERIAL
5. INSTALLED STEEL CASING EXTENSION LIMITED DUE TO EXISTING UTILITIES IN GROUND (COULD ONLY ACHIEVE 10 FT LENGTH)
6. DETAIL OF CONNECTIONS BETWEEN CONDUIT, CASING, AND DERAILS TO BE DETERMINED IN THE FIELD
7. BELL FIBER TO BE LOCATED BY HYDRO VAC WEST OF THE K09 DERAIL AND DAYLIGHTED
8. AS CONFIRMED BY BELL, WHERE VITERRA CONDUIT WEST OF K09 DERAIL RUNS ABOVE EXISTING BELL FIBER, IT IS PREFERRED TO HAVE A MIN 300mm (12") SEPARATION BETWEEN TOP OF BELL FIBRE AND BOTTOM OF VITERRA CONDUIT. IF THE VITERRA CONDUIT DEPTH CANNOT MEET THE CP REQUIREMENT OF 3 FEET BELOW BOTTOM OF RAIL TO TOP OF CONDUIT, BELL WILL ALLOW A SEPARATION OF 150mm (6") BETWEEN FIBER AND CONDUIT FOR THIS LIMITATION
9. CONDUIT TO BE BACKFILLED WITH RIVER SAND BEDDING, MIN 75mm BELOW CONDUIT AND MIN 150mm ABOVE CONDUIT. REMAINDER TO BE BACK FILLED WITH COMMON EXCAVATION.

NEW PROPOSED
EXISTING TO BE REMOVED

0.5 m 0 1:50 2.5 m
2 m 0 1:200 10 m

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
A.B. DATE: **03-08-21**	**D.F** DATE: **03-08-21**
CHECKED BY: **P.B.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **1:50**

PROFESSIONAL SEALS

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No.	DATE	REVISION	BY
A	03-08-21	ISSUED FOR 90% DESIGN	D.F.

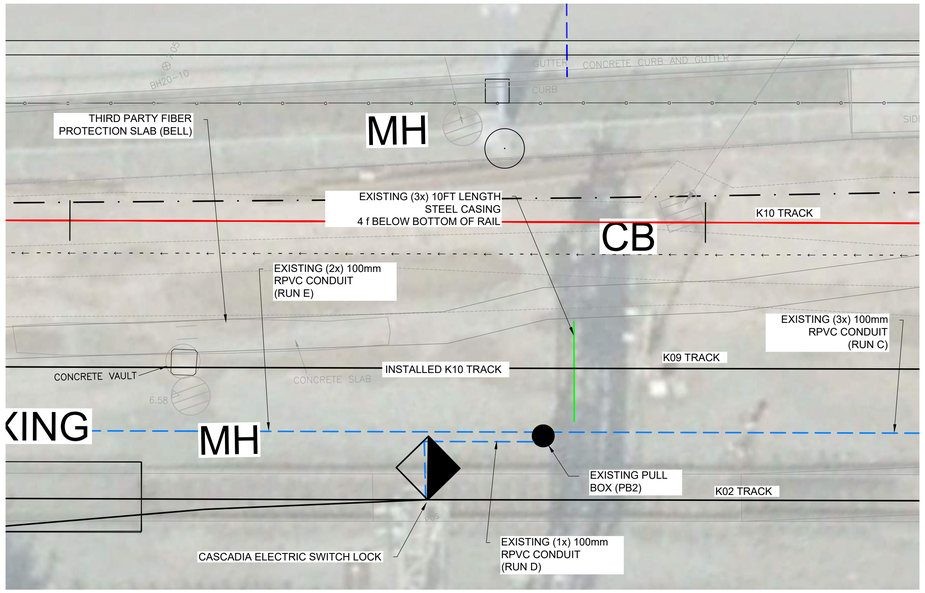
ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION VITERRA CASCADIA EAST & WEST

EAST L YARD EXPANSION
VITERRA DERAIL CABINET
PLAN AND SECTION

DWG. BY:	CHK BY:	OFFICE FILE:	
MANAGER - DESIGN:		SCALE:	
		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-EL-100-S0-4001	Rev. A

Aug 03 , 2021 , 12:37pm Login name: FRI0861308
Drawing Name: C:\pwworking\hi\frig861308\d0694027\H-362376-EL-100-S0-4001-4002.dwg



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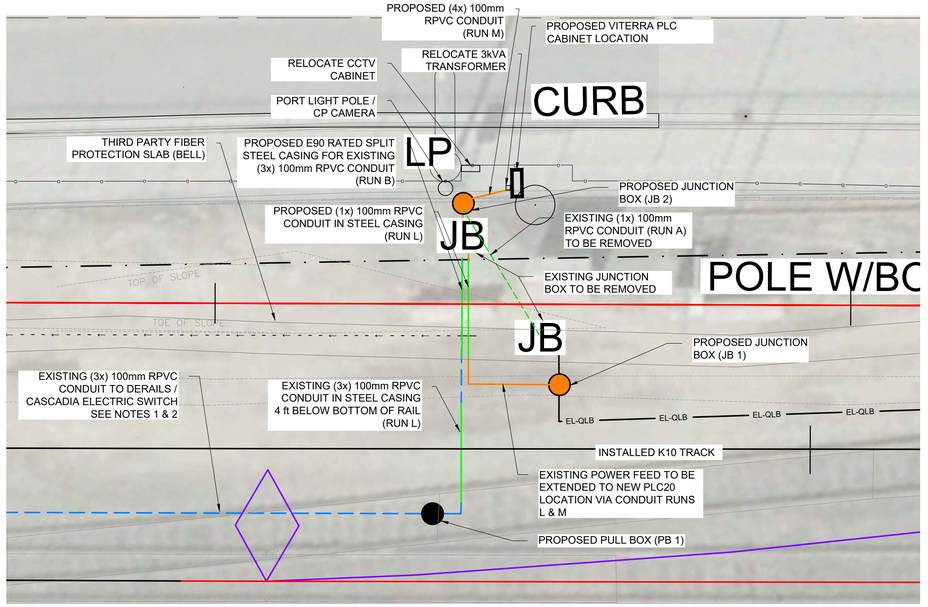

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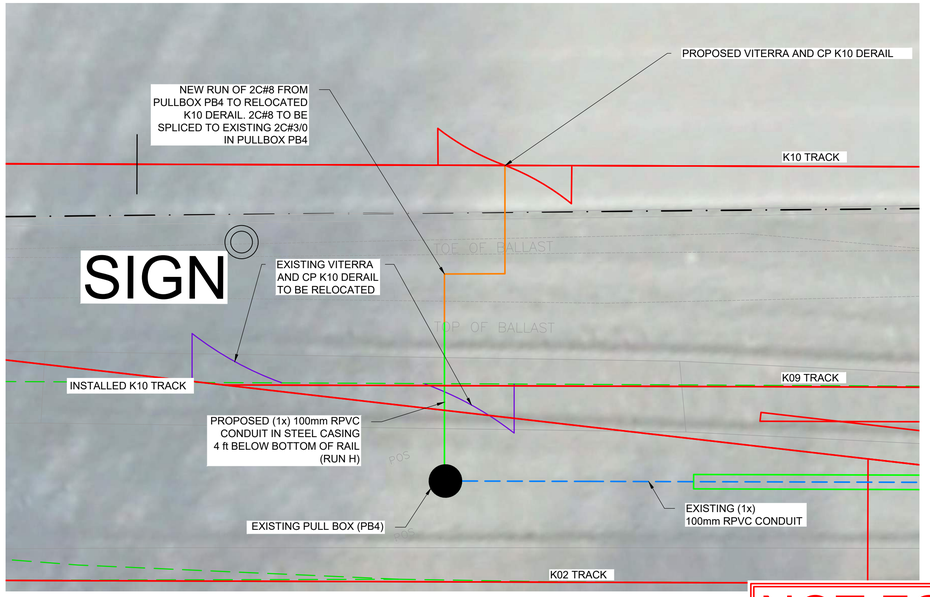

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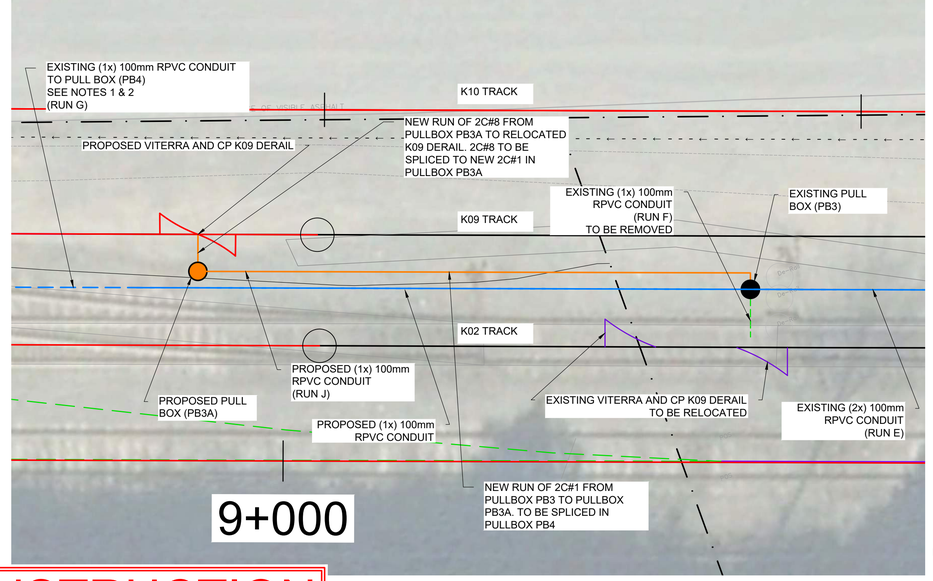

DETAIL 3 (0201) N.T.S.

NOTES:
1. PROPOSED CONDUIT TO BE 2.3m FROM ℄ OF PROPOSED K10 TRACK
2. DETAIL OF CONNECTIONS BETWEEN CONDUIT, CASING AND DERAILS TO BE DETERMINED IN THE FIELD

NEW PROPOSED

EXISTING TO BE REMOVED

NOT FOR CONSTRUCTION

HATCH

METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED

DESIGNED BY:	DRAWN BY:
A.B. DATE: **03-08-21**	**D.F** DATE: **03-08-21**
CHECKED BY: **P.B.** DATE: **03-08-21**	PROJECT MANAGER: **I.M.** DATE: **03-08-21**
HATCH PROJECT No: **362376**	DWG SCALE(FULL SIZE): **NTS**

PROFESSIONAL SEALS

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A	03-08-21	ISSUED FOR 90% DESIGN	D.F.

CP

ENGINEERING PROJECTS - WEST

VANCOUVER DIVISION VITERRA CASCADIA EAST & WEST

EAST L YARD EXPANSION
VITERRA DERAIL CABINET
DETAIL VIEWS

DWG. BY:	CHK BY:	OFFICE FILE:	
		SCALE:	
MANAGER - DESIGN:		DATE:	
M.FAVREAU DIR. PROJECT SERVICES WEST		PLAN No. H362376-EL-100-S0-4002	Rev. A

Aug 03 , 2021 , 12:37pm Login name: FRG861308
Drawing Name: C:\pwworking\hh\frg861308\d0694027\H-362376-EL-100-S0-4001-4002.dwg