



CITY OF COURTENAY BRAIDWOOD ROAD CORRIDOR IMPROVEMENTS

DRAWING INDEX				
#	DWG NO.	TITLE	DESCRIPTION	REV
CIVIL				
1	2264-00-C-001	COVER SHEET		E
2	2264-00-C-002	KEY PLAN & LOCATION PLAN		E
3	2264-00-C-003	LEGEND		D
4	2264-00-C-004	SURFACE DEMOLITION PLAN	STA: 0+000 TO 0+300	C
5	2264-00-C-005	SURFACE DEMOLITION PLAN	STA: 0+300 TO 0+600	C
6	2264-00-C-101	UTILITY OVERVIEW PLAN		D
7	2264-00-C-102	UTILITY PLAN AND PROFILE	STA: 0+000 TO 0+155	E
8	2264-00-C-103	UTILITY PLAN AND PROFILE	STA: 0+155 TO 0+300	E
9	2264-00-C-104	UTILITY PLAN AND PROFILE	STA: 0+300 TO 0+450	E
10	2264-00-C-105	UTILITY PLAN AND PROFILE	STA: 0+450 TO 0+600	E
11	2264-00-C-106	UTILITY PLAN AND PROFILE	LATERAL MAINS	C
12	2264-00-C-201	ROADWORKS PLAN	STA: 0+000 TO 0+300	E
13	2264-00-C-202	ROADWORKS PLAN	STA: 0+300 TO 0+600	E
14	2264-00-C-301	CROSS SECTIONS	STA: 0+000 TO 0+195	D
15	2264-00-C-302	CROSS SECTIONS	STA: 0+200 TO 0+395	D
16	2264-00-C-303	CROSS SECTIONS	STA: 0+400 TO 0+560	D
17	2264-00-C-401	GRADING PLAN	STA: 0+000 TO 0+340	C
18	2264-00-C-402	GRADING PLAN	STA: 0+430 TO 0+600	C
19	2264-00-C-501	GENERAL NOTES AND DETAILS		D
20	2264-00-C-502	TYPICAL DETAILS		D
21	2264-00-C-503	DRAIN MANHOLE DETAILS		B
22	2264-00-C-504	DRAIN MANHOLE DETAILS		B



G:\2021-2264-00\civil\2264-00-c-001.dwg
DATE: 2022-05-20, Gerri Alderliesten



PERMIT TO PRACTICE
ASSOCIATED ENGINEERING (B.C.) LTD.
PERMIT NUMBER: 1000163
Engineers & Geoscientists BC

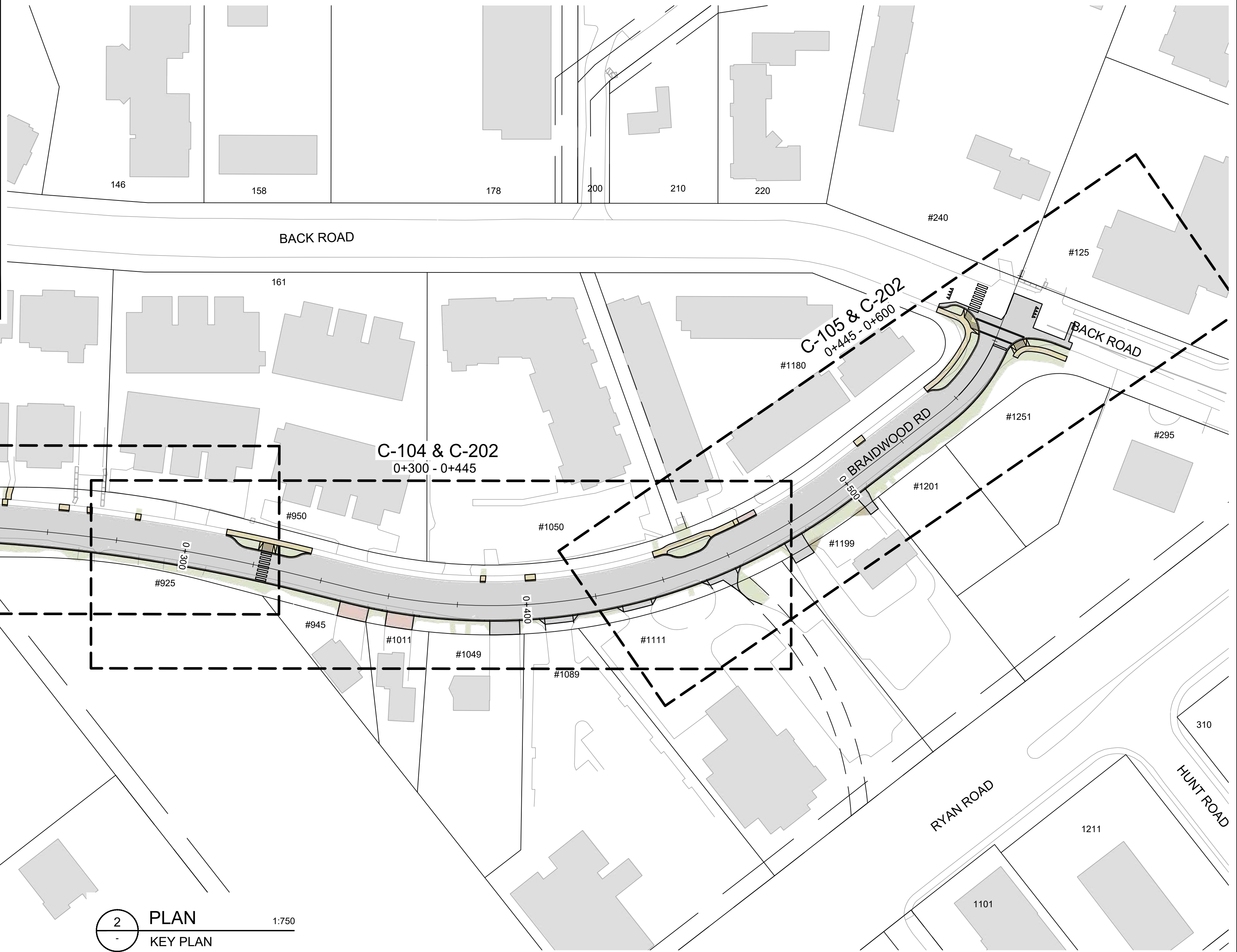
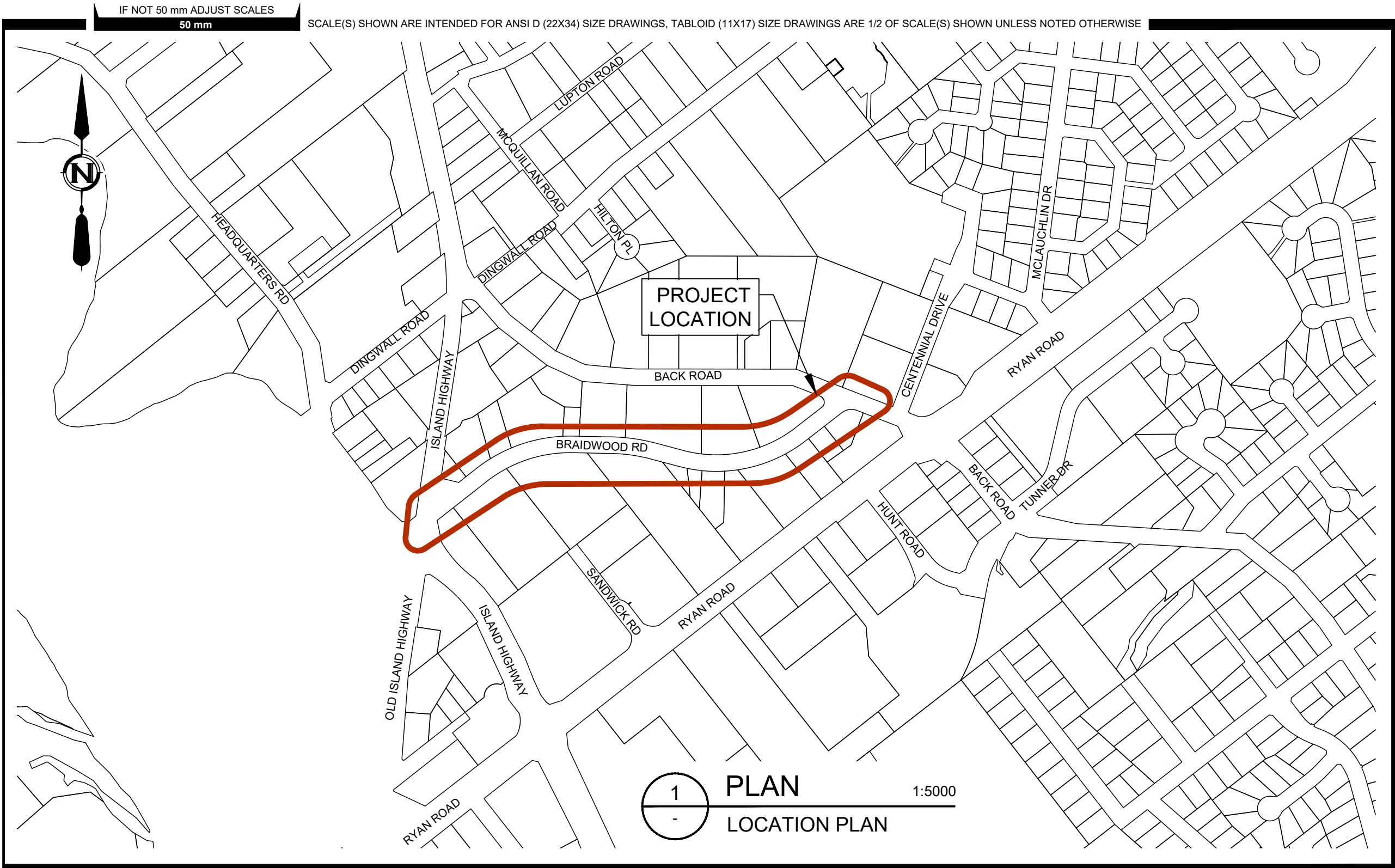
CITY OF COURTENAY
BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS
2021-2264-00



PRELIMINARY/
FOR DISCUSSION
NOT FOR CONSTRUCTION

E	2022MAY16	M.DHILLON	G.ALDERLIESTEN	REVISED 100% DESIGN
D	2022MAR03	M.DHILLON	G.ALDERLIESTEN	100% DESIGN
C	2021DEC23	M.DHILLON	G.ALDERLIESTEN	90% DESIGN
B	2019FEB28	A.STEPHENSON	G.ALDERLIESTEN	70% DESIGN
A	2018NOV30	A.STEPHENSON	G.ALDERLIESTEN	40% DESIGN
REV	DATE	DESIGN	DRAWN	DESCRIPTION

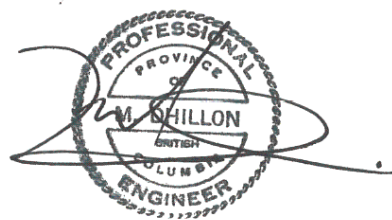
DRAWING	REVISION	SHEET
2264-00-C-001	E	1 / 22



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DRAWING PATH: \\2021-2264-00\2264-00-C-002.dwg



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2022-05-24

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CONSTRUCTION

E	2022MAY16	M.DHILLON	G.ALDERLIESTEN	REVISED 100% DESIGN
D	2022MAR03	M.DHILLON	G.ALDERLIESTEN	100% DESIGN
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A	2018NOV30	A.STEPHENSON	G.ALDERLIESTEN	40% DESIGN
REV	DATE	DESIGN	DRAWN	DESCRIPTION

CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

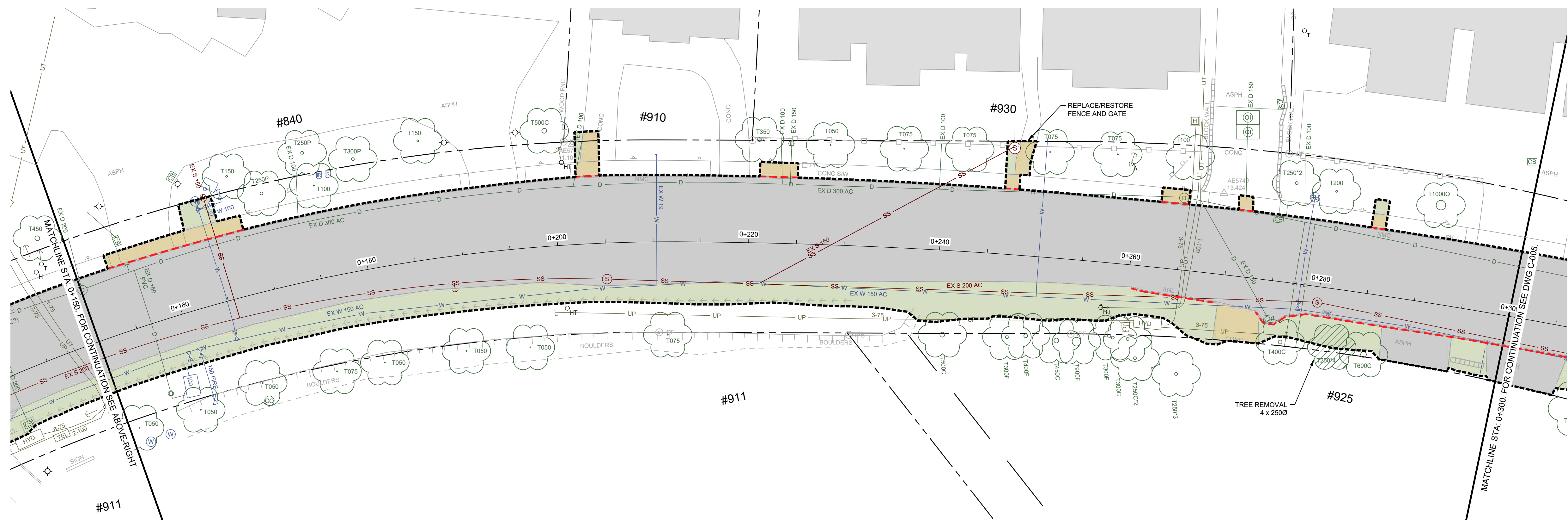
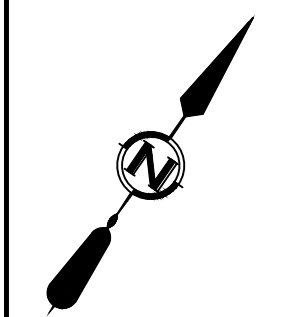
SCALE: 1:750

CIVIL
KEY PLAN & LOCATION PLAN

DRAWING	REVISION	SHEET
2264-00-C-002	E	2 / 22

IF NOT 50 mm ADJUST SCALES
50 mm

SCALE(S) SHOWN ARE INTENDED FOR ANSI D (22X34) SIZE DRAWINGS, TABLOID (11X17) SIZE DRAWINGS ARE 1/2 OF SCALE(S) SHOWN UNLESS NOTED OTHERWISE



REMOVALS HATCH LEGEND	
	APPROXIMATE CONSTRUCTION BOUNDARY
	ASPHALT ROADWAY AND DRIVEWAY REMOVAL
	CONCRETE SIDEWALK AND DRIVEWAY REMOVAL
	STRIPPING, CLEARING AND GRUBBING
	CURB (CONCRETE OR ASPHALT)
	TREE REMOVAL

Q:\2021-2264-00\civil\2264-00-c-004-005.dwg
DATE: 2022-05-20, Gerrit Alderliesten



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REV	DATE	DESIGN	DRAWN	DESCRIPTION

CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

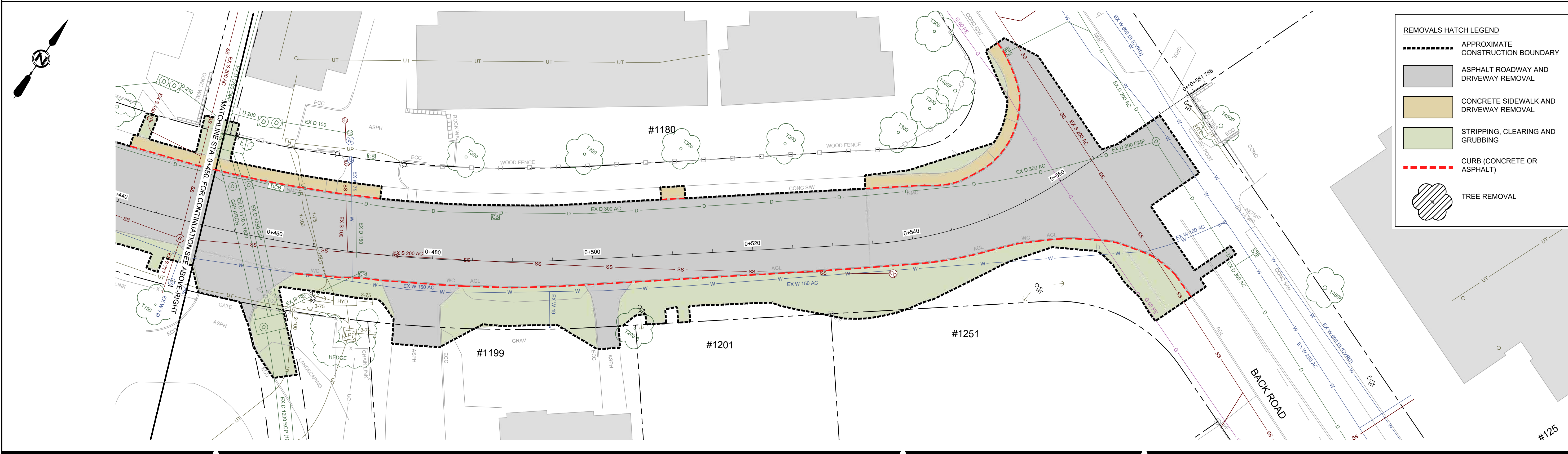
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CIVIL
SURFACE DEMOLITION PLAN
STA: 0+000 TO 0+300

DRAWING	REVISION	SHEET
2264-00-C-004	C	4 / 22

IF NOT 50 mm ADJUST SCALES
50 mm

SCALE(S) SHOWN ARE INTENDED FOR ANSI D (22X34) SIZE DRAWINGS, TABLOID (11X17) SIZE DRAWINGS ARE 1/2 OF SCALE(S) SHOWN UNLESS NOTED OTHERWISE



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REV	DATE	DESIGN	DRAWN	DESCRIPTION

CITY OF COURTENAY

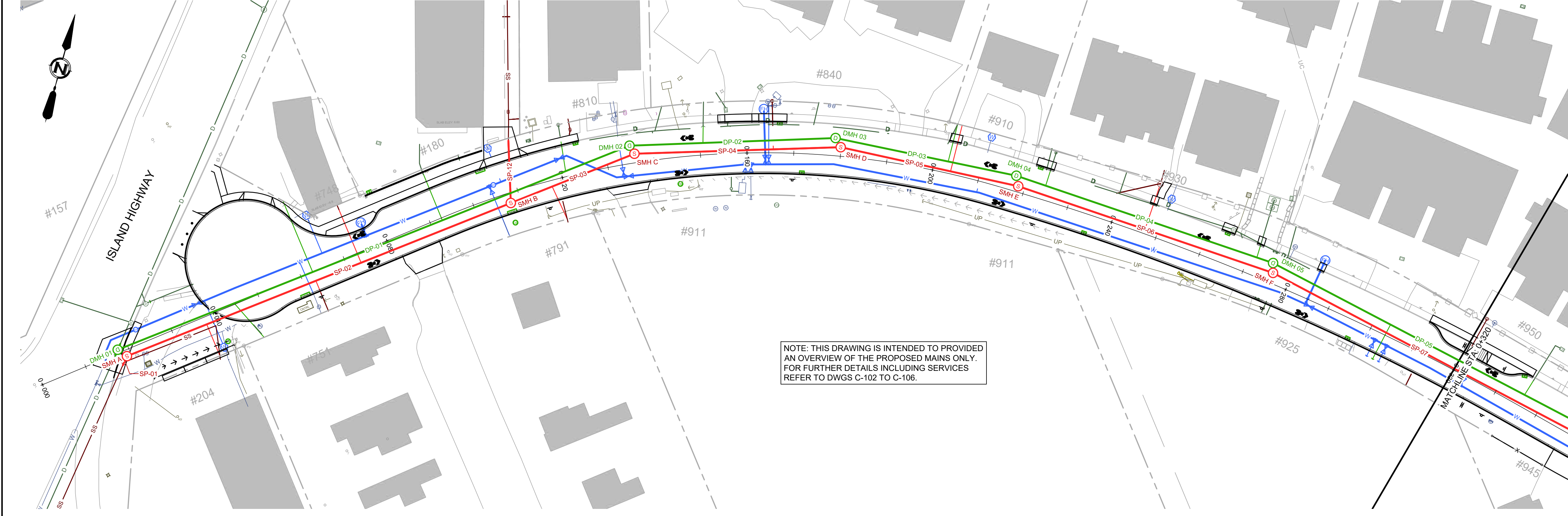
BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

SCALE: 1:250

CIVIL
SURFACE DEMOLITION PLAN
STA: 0+300 TO 0+600

DRAWING	REVISION	SHEET
2264-00-C-005	C	5 / 22

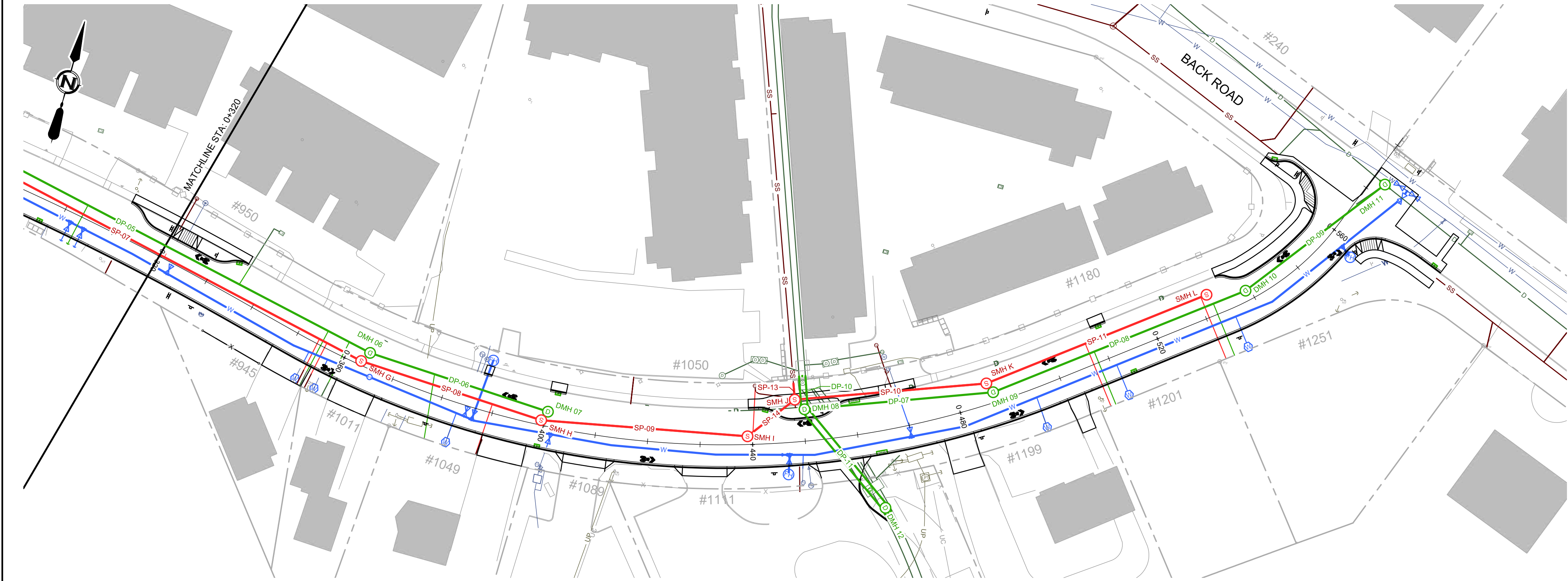


SANITARY STRUCTURE TABLE				
NAME	SIZE	RIM	INVERT IN	INVERT OUT
SMH A	1200 Ø	7.152	3.047 NE (250 Ø)	3.022 S (250 Ø)
SMH B	1200 Ø	5.881	3.803 N (150 Ø) 3.318 N (150 Ø) 3.298 NE (250 Ø)	3.268 SW (250 Ø)
SMH C	1200 Ø	6.469	4.460 E (200 Ø) 5.303 E (200 Ø)	3.369 SW (250 Ø)
SMH D	1050 Ø	9.268	7.460 E (200 Ø)	7.430 W (200 Ø)
SMH E	1050 Ø	11.439	9.503 E (200 Ø)	9.478 W (200 Ø)
SMH F	1200 Ø	13.463	9.701 E (200 Ø)	9.676 W (200 Ø)
SMH G	1200 Ø	13.943	9.987 E (200 Ø)	9.962 W (200 Ø)
SMH H	1200 Ø	13.449	10.120 E (200 Ø)	10.095 W (200 Ø)
SMH I	1050 Ø	12.416	10.263 NE (200 Ø)	10.238 W (200 Ø)
SMH J	1050 Ø	12.434	10.347 N (200 Ø) 10.375 E (200 Ø)	10.297 SW (250 Ø)
SMH K	1050 Ø	12.310	10.625 NE (200 Ø)	10.595 W (200 Ø)
SMH L	1050 Ø	13.213		10.984 SW (200 Ø)

SANITARY PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
SP-01	250 Ø	2.14 m	0.30%	PVC SDR35
SP-02	250 Ø	88.56 m	0.25%	PVC SDR35
SP-03	250 Ø	28.51 m	0.25%	PVC SDR35
SP-04	200 Ø	44.24 m	6.71%	PVC SDR35
SP-05	200 Ø	38.95 m	5.18%	PVC SDR35
SP-06	200 Ø	57.67 m	0.30%	PVC SDR35
SP-07	200 Ø	87.11 m	0.30%	PVC SDR35
SP-08	200 Ø	35.98 m	0.30%	PVC SDR35
SP-09	200 Ø	39.29 m	0.30%	PVC SDR35
SP-10	200 Ø	36.51 m	0.60%	PVC SDR35
SP-11	200 Ø	45.06 m	0.80%	PVC SDR35
SP-12	150 Ø	13.36 m	1.00%	PVC SDR35
SP-13	200 Ø	3.08 m	2.00%	PVC SDR35
SP-14	200 Ø	11.35 m	0.30%	PVC SDR35

DRAIN STRUCTURE TABLE				
NAME	SIZE	RIM	INVERT IN	INVERT OUT
DMH 01	1800 Ø	6.806	4.262 N (450 Ø) 4.274 NE (750 Ø)	4.244 S (450 Ø)
DMH 02	1350 Ø	6.385	5.003 E (375 Ø)	4.628 SW (750 Ø)
DMH 03	1200 Ø	9.160	7.016 E (375 Ø)	6.858 W (375 Ø)
DMH 04	1200 Ø	11.334	9.354 E (375 Ø)	9.294 W (375 Ø)
DMH 05	1200 Ø	13.413	10.883 E (375 Ø)	10.808 W (375 Ø)
DMH 06	1050 Ø	13.884	11.699 E (300 Ø)	11.594 W (375 Ø)
DMH 07	1050 Ø	13.384		12.055 W (300 Ø)
DMH 08	2400 Ø	12.369	10.741 N (1200 Ø) 10.394 E (525 Ø)	10.196 SE (1200 Ø)
DMH 09	1200 Ø	12.360	10.901 NE (450 Ø)	10.828 W (525 Ø)
DMH 10	1200 Ø	13.506	11.836 NE (375 Ø)	11.631 SW (450 Ø)
DMH 11	1500 Ø	15.091	13.416 NW (200 Ø) 13.418 SE (300 Ø)	13.335 SW (375 Ø)
DMH 12	1200 Ø	11.705	9.143 NW (1200 Ø)	9.143 SE (1200 Ø)

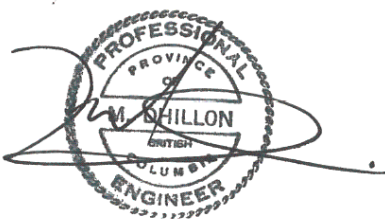
DRAIN PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
DP-01	750 Ø	118.06 m	0.30%	ADS HP
DP-02	375 Ø	44.20 m	4.20%	PVC SDR35
DP-03	375 Ø	39.58 m	5.76%	PVC SDR35
DP-04	375 Ø	58.11 m	2.50%	PVC SDR35
DP-05	375 Ø	88.87 m	0.80%	PVC SDR35
DP-06	300 Ø	35.56 m	1.00%	PVC SDR35
DP-07	525 Ø	35.97 m	1.20%	PVC SDR35
DP-08	450 Ø	51.64 m	1.41%	PVC SDR35
DP-09	375 Ø	33.26 m	4.51%	PVC SDR35
DP-10	1200 Ø	6.30 m	3.40%	CMP
DP-11	1200 Ø	24.21 m	4.35%	CONC C76



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2022-05-24

NOT FOR
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D	2022MAY16	M.DHILLON	G.ALDERLIESTEN	REVISED 100% DESIGN
C	2022MAR03	M.DHILLON	G.ALDERLIESTEN	100% DESIGN
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REV	DATE	DESIGN	DRAWN	DESCRIPTION

CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

SCALE: 1:500

CIVIL
UTILITY OVERVIEW PLAN

DRAWING	REVISION	SHEET
2264-00-C-101	D	6 / 22

WATER FITTINGS AND APPURTANCES: (W.#)

- 250x200 HxH ECCENTRIC REDUCER + 200 FxH 22.5° BEND.
- 250 HxH 45° BEND.
- 250 HxH GATE VALVE.
- 250Hx250Hx100F TEE + 1-100 FxH GATE VALVE.
- 250 HxH GATE VALVE.
- 250 HxH 22.5° BEND.
- 250 HxH 22.5° BEND + 250 FxH 5° BEND.
- 250Hx250Fx150F TEE + 1-250 FxH GATE VALVE + 1-150 FxH GATE VALVE.
- 250Hx250Hx150F TEE + 1-150 FxH GATE VALVE.

CONTRACTOR TO COORDINATE WITH MOTI PRIOR TO CONSTRUCTION OF ANY WORKS WITHIN ISLAND HIGHWAY ROW.

RESET OR RELOCATE EXISTING COBRA HEAD LIGHT. CONTRACTOR TO COORDINATE WITH BC MOTI.

INSUFFICIENT CLEARANCE FROM SANITARY OR DRAIN MAINS. WRAP ALL WATERMAIN JOINTS WITH PETROLATUM TAPE. STA 0+00 TO 0+020. WATERMAIN TO MAINTAIN MINIMUM 1.0 m CLEARANCE FROM DRAIN MANHOLE.

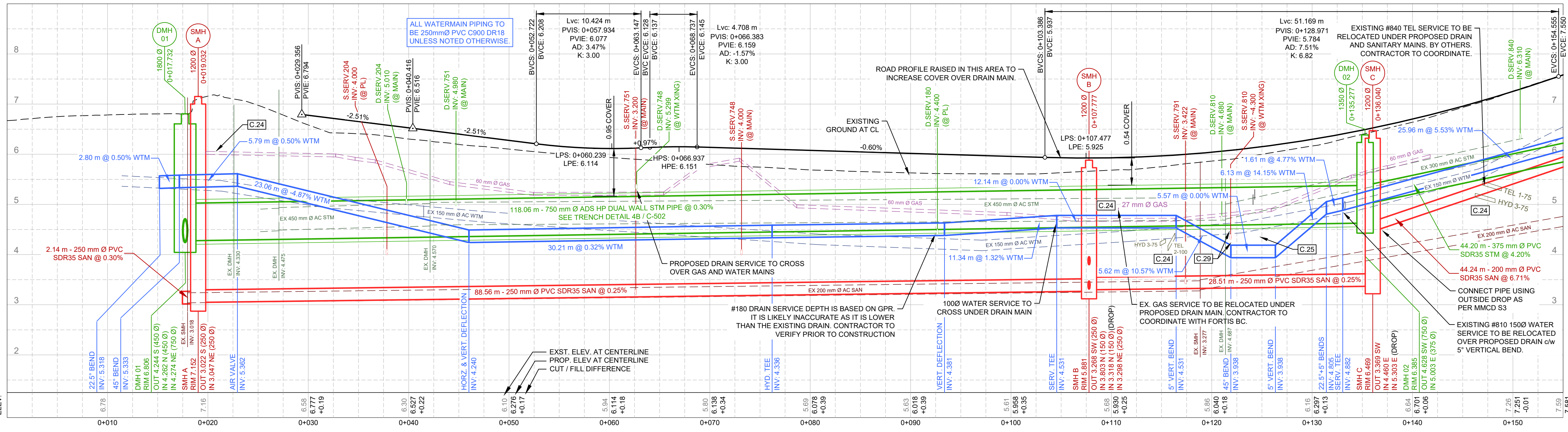
GAS MAIN WILL LIKELY REQUIRE RELOCATION OR REPLACEMENT DUE TO PROXIMITY TO DEEP SANITARY CONSTRUCTION. WORK BY OTHERS. (SUBJECT TO REVIEW BY FORTIS)

CONSTRUCTION NOTES: (C.#)

- SINGLE CATCH BASIN AS PER CSSD-S11.
- DOUBLE CATCHBASIN AS PER DETAIL 5 / C-502.
- LAWN BASIN AS PER MMCD S12 TYPE 2.
- MANHOLE(S) AS PER MMCD S1.
- FIRE HYDRANT AS PER MMCD W4 c/w LEAD, VALVE, STORZ CONNECTION, THRUST BLOCK AND JOINT RESTRAINTS.
- AIR RELEASE VALVE AS PER MMCD W6.
- REPLACE SANITARY SERVICE TO PROPERTY LINE c/w INSPECTION CHAMBER AS PER CSSD-S7. MATCH EXISTING SIZE (OR MINIMUM 100 mm).
- REPLACE STORM SERVICE TO PROPERTY LINE c/w INSPECTION CHAMBER AS PER CSSD-S8. MATCH EXISTING SIZE (OR MINIMUM 150 mm).
- REPLACE WATER SERVICE TO PROPERTY LINE c/w METER. MATCH EXISTING SIZE (OR MINIMUM 25 mm).
- RECONNECT EXISTING CATCHBASIN TO PROPOSED MAIN.
- INTERCEPT EXISTING SERVICE AND RECONNECT TO PROPOSED MAIN.
- EXTEND EXISTING SERVICE AND RECONNECT TO PROPOSED MAIN. MATCH EXISTING SIZE.
- CONNECTION TO EXISTING MAIN. CONTRACTOR TO VERIFY AND RECORD EXISTING LOCATION AND DEPTH PRIOR TO CONSTRUCTION. SUBMIT SEWER AND DRAIN CONNECTION SHOP DRAWINGS FOR REVIEW. BYPASS PUMPING MAY BE REQUIRED FOR SEWER OR DRAIN.
- REMOVE EXISTING HYDRANT AND DISPOSE OFFSITE. EXISTING LEAD TO BE CAPPED OR PLUGGED WATERTIGHT.
- REMOVE EXISTING VALVE BOX(ES) AND RISER(S) AND DISPOSE OFFSITE. VALVE(S) TO BE LEFT IN CLOSED POSITION.
- REMOVE EXISTING CATCHBASIN AND DISPOSE OFFSITE. CAP ALL EXPOSED PIPE ENDS.
- REMOVE EXISTING MANHOLE(S) OR CLEANOUT(S) AND DISPOSE OFFSITE. CAP ALL EXPOSED PIPE ENDS.
- ABANDON EXISTING MANHOLE IN PLACE. REFER TO DETAIL 3 / C-502.
- ASSUMED EXISTING SERVICE IS ABANDONED. CONTRACTOR TO CONFIRM PRIOR TO CONSTRUCTION.
- ABANDON EXISTING PIPE IN PLACE. CAP EXPOSED ENDS.
- ABANDON EXISTING PIPE IN PLACE AND FILL COMPLETELY WITH CONTROL DENSITY FILL (CDF). CAP EXPOSED ENDS.
- REMOVE EXISTING PIPE. CAP EXPOSED ENDS.
- CAUTION! PROPOSED STRUCTURE OR PIPE CROSSES OR IS IN CLOSE PROXIMITY TO GAS LINE. CONTRACTOR TO VERIFY LOCATION AND DEPTH PRIOR TO CONSTRUCTION.
- DEPTH OF CROSSING IS UNCERTAIN. EXPOSE PRIOR TO CONSTRUCTION TO CONFIRM LOCATION, SIZE, AND ELEVATION.
- VERTICAL SEPARATION LESS THAN 450 mm. WRAP WATERMAIN JOINTS WITH PETROLATUM TAPE 3.0 m EACH SIDE OF CROSSING.
- CONTRACTOR TO CONFIRM DEPTH OF SERVICE PRIOR TO CONSTRUCTION.
- CITY OF COURTENAY TO REVIEW CONDITION OF EXISTING HYDRANT PRIOR TO CONSTRUCTION TO CONFIRM NEED FOR REPLACEMENT. CONTRACTOR TO COORDINATE.
- SERVICE DEPTH CRITICAL. REDUCE PIPE SLOPE TO 1.0% IF REQUIRED.
- IF VERTICAL SEPARATION LESS THAN 150 mm FILL SEPARATION SPACE WITH CONTROL DENSITY FILL (CDF) TO SPRINGLINE OF BOTH PIPES.

NOTE TYPE KEY

- NOTE SPECIFIC CONSTRUCTION NOTE
C.1 STANDARD CONSTRUCTION NOTE
W.1 WATER FITTING NOTE



CATCHBASIN TABLE		
NAME	RIM	INVERTS
CB 3	5.682	5.182 OUT (200 Ø)
CB 7	5.900	5.100 OUT (200 Ø)
DCB 2	5.961	5.161 OUT (200 Ø)
DCB 4	5.695	4.995 OUT (200 Ø)
DCB 5	5.828	5.028 OUT (200 Ø) 5.078 IN (150 Ø)
LB 1	6.100	5.500 OUT (150 Ø)
LB 6	5.664	5.121 OUT (150 Ø)
LB 8	6.825	6.225 OUT (150 Ø)

CATCHBASIN LEAD TABLE			
NAME	SIZE	LENGTH	SLOPE
CBL-1	150 Ø	7.084 m	2.00%
CBL-2	200 Ø	3.895 m	2.00%
CBL-3	200 Ø	11.099 m	2.00%
CBL-4	200 Ø	6.832 m	2.00%
CBL-5	200 Ø	3.909 m	2.00%
CBL-6	150 Ø	2.140 m	2.00%
CBL-7	200 Ø	5.212 m	2.00%
CBL-8	150 Ø	8.594 m	2.00%



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CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

SCALE: 1:250 (H), 1:50 (V)

CIVIL
UTILITY PLAN AND PROFILE
STA: 0+000 TO 0+155

DRAWING	REVISION	SHEET
2264-00-C-102	E	7 / 22

CONSTRUCTION NOTES: (C.#)

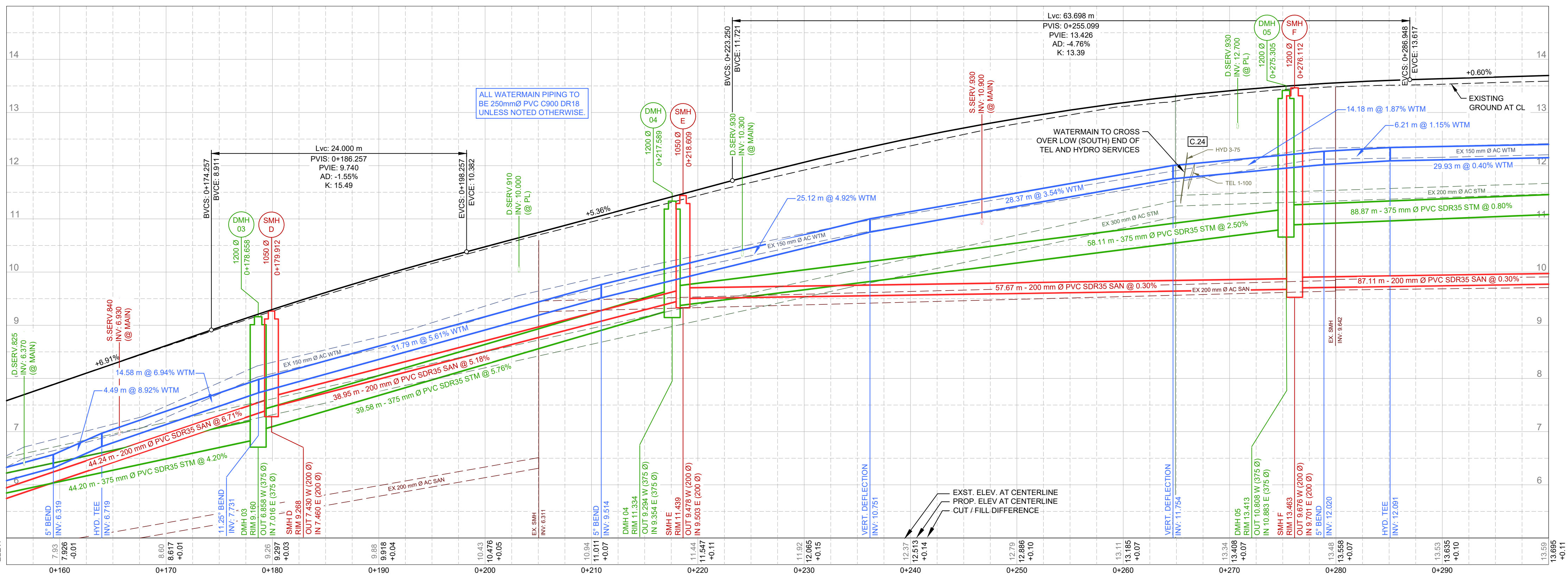
1. SINGLE CATCH BASIN AS PER CSSD-S11.
2. DOUBLE CATCHBASIN AS PER DETAIL 5 / C-502.
3. LAWN BASIN AS PER MMCD S12 TYPE 2.
4. MANHOLE(S) AS PER MMCD S1.
5. FIRE HYDRANT AS PER MMCD W4 c/w LEAD, VALVE, STORZ CONNECTION, THRUST BLOCK AND JOINT RESTRAINTS.
6. AIR RELEASE VALVE AS PER MMCD W6.
7. REPLACE SANITARY SERVICE TO PROPERTY LINE c/w INSPECTION CHAMBER AS PER CSSD-S7. MATCH EXISTING SIZE (OR MINIMUM 100 mm).
8. REPLACE STORM SERVICE TO PROPERTY LINE c/w INSPECTION CHAMBER AS PER CSSD-S8. MATCH EXISTING SIZE (OR MINIMUM 150 mm).
9. REPLACE WATER SERVICE TO PROPERTY LINE c/w METER. MATCH EXISTING SIZE (OR MINIMUM 25 mm).
10. RECONNECT EXISTING CATCHBASIN TO PROPOSED MAIN.
11. INTERCEPT EXISTING SERVICE AND RECONNECT TO PROPOSED MAIN.
12. EXTEND EXISTING SERVICE AND RECONNECT TO PROPOSED MAIN. MATCH EXISTING SIZE.
13. CONNECTION TO EXISTING MAIN. CONTRACTOR TO VERIFY AND RECORD EXISTING LOCATION AND DEPTH PRIOR TO CONSTRUCTION. SUBMIT SEWER AND DRAIN CONNECTION SHOP DRAWINGS FOR REVIEW. BYPASS PUMPING MAY BE REQUIRED FOR SEWER OR DRAIN.
14. REMOVE EXISTING HYDRANT AND DISPOSE OFFSITE. EXISTING LEAD TO BE CAPPED OR PLUGGED WATERTIGHT.
15. REMOVE EXISTING VALVE BOX(ES) AND RISER(S) AND DISPOSE OFFSITE. VALVE(S) TO BE LEFT IN CLOSED POSITION.
16. REMOVE EXISTING CATCHBASIN AND DISPOSE OFFSITE. CAP ALL EXPOSED PIPE ENDS.
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18. ABANDON EXISTING MANHOLE IN PLACE. REFER TO DETAIL 3 / C-502.
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20. ABANDON EXISTING PIPE IN PLACE. CAP EXPOSED ENDS.
21. ABANDON EXISTING PIPE IN PLACE AND FILL COMPLETELY WITH CONTROL DENSITY FILL (CDF). CAP EXPOSED ENDS.
22. REMOVE EXISTING PIPE. CAP EXPOSED ENDS.
23. CAUTION! PROPOSED STRUCTURE OR PIPE CROSSES OR IS IN CLOSE PROXIMITY TO GAS LINE. CONTRACTOR TO VERIFY LOCATION AND DEPTH PRIOR TO CONSTRUCTION.
24. DEPTH OF CROSSING IS UNCERTAIN. EXPOSE PRIOR TO CONSTRUCTION TO CONFIRM LOCATION, SIZE, AND ELEVATION.
25. VERTICAL SEPARATION LESS THAN 450 mm. WRAP WATERMAIN JOINTS WITH PETROLATUM TAPE 3.0 m EACH SIDE OF CROSSING.
26. CONTRACTOR TO CONFIRM DEPTH OF SERVICE PRIOR TO CONSTRUCTION.
27. CITY OF COURTENAY TO REVIEW CONDITION OF EXISTING HYDRANT PRIOR TO CONSTRUCTION TO CONFIRM NEED FOR REPLACEMENT. CONTRACTOR TO COORDINATE.
28. SERVICE DEPTH CRITICAL. REDUCE PIPE SLOPE TO 1.0% IF REQUIRED.
29. IF VERTICAL SEPARATION LESS THAN 150 mm FILL SEPARATION SPACE WITH CONTROL DENSITY FILL (CDF) TO SPRINGLINE OF BOTH PIPES.

NOTE TYPE KEY

NOTE	SPECIFIC CONSTRUCTION NOTE
C.1	STANDARD CONSTRUCTION NOTE
W.1	WATER FITTING NOTE

WATER FITTINGS AND APPURTANCES: (W.#)

21. 250 HxH 5" BEND + 250Fx250Hx100F TEE + 1-100 FxH GATE VALVE
22. 250Hx250Hx150F TEE + 1-150 FxH GATE VALVE
23. 250Hx250Hx150F TEE + 1-150 FxH GATE VALVE
24. 250Hx250Hx100F TEE + 1-100 FxH GATE VALVE
25. 250 HxH 11.25" BEND.
26. 250 HxH 5" BEND.
27. 250 HxH 5" BEND.
28. 250Hx250Fx150F TEE + 1-250 FxH GATE VALVE + 1-150 FxH GATE VALVE
29. 250 HxH 5" BEND.



CATCHBASIN TABLE		
NAME	RIM	INVERTS
CB 9	8.270	7.270 OUT (200 Ø)
CB 10	8.653	7.853 OUT (200 Ø)
CB 11	11.471	10.471 OUT (200 Ø)
CB 12	12.205	11.405 OUT (200 Ø)
CB 13	13.143	12.142 OUT (200 Ø)
CB 14	13.578	12.778 OUT (200 Ø)

CATCHBASIN LEAD TABLE			
NAME	SIZE	LENGTH	SLOPE
CBL-9	200 Ø	3.928 m	2.00%
CBL-10	200 Ø	7.406 m	2.00%
CBL-11	200 Ø	3.641 m	2.00%
CBL-12	200 Ø	7.285 m	2.00%
CBL-13	200 Ø	3.219 m	1.99%
CBL-14	200 Ø	7.205 m	2.00%



PERMIT TO PRACTICE
ASSOCIATED ENGINEERING (B.C.) LTD.
PERMIT NUMBER: 1000163
Engineers & Geoscientists BC



2022-05-24

NOT FOR
CONSTRUCTION

E	2022MAY16	M.DHILLON	G.ALDERLIESTEN	REVISED 100% DESIGN
D	2022MAR03	M.DHILLON	G.ALDERLIESTEN	100% DESIGN
C	2021DEC23	M.DHILLON	G.ALDERLIESTEN	90% DESIGN
B	2019FEB28	A.STEPHENSON	G.ALDERLIESTEN	70% DESIGN
A	2018NOV30	A.STEPHENSON	G.ALDERLIESTEN	40% DESIGN
REV	DATE	DESIGN	DRAWN	DESCRIPTION

CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

SCALE: 1:250 (H), 1:50 (V)

CIVIL
UTILITY PLAN AND PROFILE
STA: 0+155 TO 0+300

DRAWING	REVISION	SHEET
2264-00-C-103	E	8 / 22

Q:\2021-2264-00\civil\2264-00-C-102-106.dwg
DATE: 2022-05-20, Gerrit Aderlesten

IF NOT 50 mm ADJUST SCALES
50 mm

SCALE(S) SHOWN ARE INTENDED FOR ANSI D (22X34) SIZE DRAWINGS, TABLOID (11X17) SIZE DRAWINGS ARE 1/2 OF SCALE(S) SHOWN UNLESS NOTED OTHERWISE

CONSTRUCTION NOTES: (C.#)

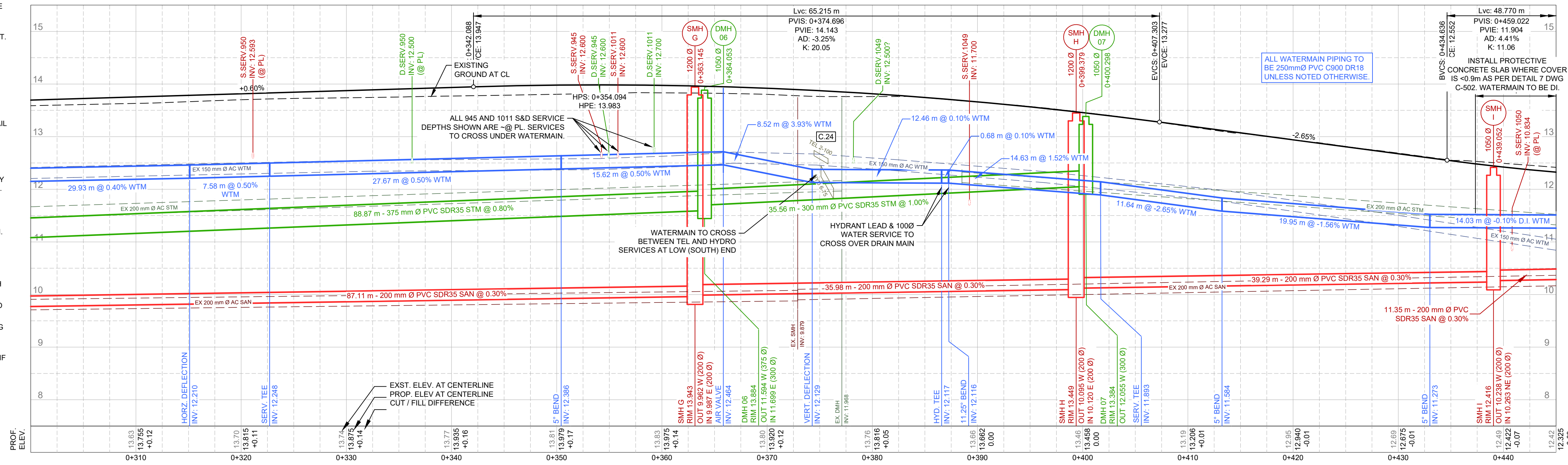
1. SINGLE CATCH BASIN AS PER CSSD-S11.
2. DOUBLE CATCHBASIN AS PER DETAIL 5 / C-502.
3. LAWN BASIN AS PER MMCD S12 TYPE 2.
4. MANHOLE(S) AS PER MMCD S1.
5. FIRE HYDRANT AS PER MMCD W4 c/w LEAD, VALVE, STORZ CONNECTION, THRUST BLOCK AND JOINT RESTRAINTS.
6. AIR RELEASE VALVE AS PER MMCD W6.
7. REPLACE SANITARY SERVICE TO PROPERTY LINE c/w INSPECTION CHAMBER AS PER CSSD-S7. MATCH EXISTING SIZE (OR MINIMUM 100 mm).
8. REPLACE STORM SERVICE TO PROPERTY LINE c/w INSPECTION CHAMBER AS PER CSSD-S8. MATCH EXISTING SIZE (OR MINIMUM 150 mm).
9. REPLACE WATER SERVICE TO PROPERTY LINE c/w METER. MATCH EXISTING SIZE (OR MINIMUM 25 mm).
10. RECONNECT EXISTING CATCHBASIN TO PROPOSED MAIN.
11. INTERCEPT EXISTING SERVICE AND RECONNECT TO PROPOSED MAIN.
12. EXTEND EXISTING SERVICE AND RECONNECT TO PROPOSED MAIN. MATCH EXISTING SIZE.
13. CONNECTION TO EXISTING MAIN. CONTRACTOR TO VERIFY AND RECORD EXISTING LOCATION AND DEPTH PRIOR TO CONSTRUCTION. SUBMIT SEWER AND DRAIN CONNECTION SHOP DRAWINGS FOR REVIEW. BYPASS PUMPING MAY BE REQUIRED FOR SEWER OR DRAIN.
14. REMOVE EXISTING HYDRANT AND DISPOSE OFFSITE. EXISTING LEAD TO BE CAPPED OR PLUGGED WATERTIGHT.
15. REMOVE EXISTING VALVE BOX(ES) AND RISER(S) AND DISPOSE OFFSITE. VALVE(S) TO BE LEFT IN CLOSED POSITION.
16. REMOVE EXISTING CATCHBASIN AND DISPOSE OFFSITE. CAP ALL EXPOSED PIPE ENDS.
17. REMOVE EXISTING MANHOLE(S) OR CLEANOUT(S) AND DISPOSE OFFSITE. CAP ALL EXPOSED PIPE ENDS.
18. ABANDON EXISTING MANHOLE IN PLACE. REFER TO DETAIL 3 / C-502.
19. ASSUMED EXISTING SERVICE IS ABANDONED. CONTRACTOR TO CONFIRM PRIOR TO CONSTRUCTION.
20. ABANDON EXISTING PIPE IN PLACE. CAP EXPOSED ENDS.
21. ABANDON EXISTING PIPE IN PLACE AND FILL COMPLETELY WITH CONTROL DENSITY FILL (CDF). CAP EXPOSED ENDS.
22. REMOVE EXISTING PIPE. CAP EXPOSED ENDS.
23. CAUTION! PROPOSED STRUCTURE OR PIPE CROSSES OR IS IN CLOSE PROXIMITY TO GAS LINE. CONTRACTOR TO VERIFY LOCATION AND DEPTH PRIOR TO CONSTRUCTION.
24. DEPTH OF CROSSING IS UNCERTAIN. EXPOSE PRIOR TO CONSTRUCTION TO CONFIRM LOCATION, SIZE, AND ELEVATION.
25. VERTICAL SEPARATION LESS THAN 450 mm. WRAP WATERMAIN JOINTS WITH PETROLATUM TAPE 3.0 m EACH SIDE OF CROSSING.
26. CONTRACTOR TO CONFIRM DEPTH OF SERVICE PRIOR TO CONSTRUCTION.
27. CITY OF COURTENAY TO REVIEW CONDITION OF EXISTING HYDRANT PRIOR TO CONSTRUCTION TO CONFIRM NEED FOR REPLACEMENT. CONTRACTOR TO COORDINATE.
28. SERVICE DEPTH CRITICAL. REDUCE PIPE SLOPE TO 1.0% IF REQUIRED.
29. IF VERTICAL SEPARATION LESS THAN 150 mm FILL SEPARATION SPACE WITH CONTROL DENSITY FILL (CDF) TO SPRINGLINE OF BOTH PIPES.

NOTE TYPE KEY

- | | |
|------|----------------------------|
| NOTE | SPECIFIC CONSTRUCTION NOTE |
| C.1 | STANDARD CONSTRUCTION NOTE |
| W.1 | WATER FITTING NOTE |

WATER FITTINGS AND APPURTANCES: (W.#)

31. 250Hx250Fx75F TEE + 1-75 FxH GATE VALVE.
32. 250 HxH 5" BEND.
33. 250Fx250Hx100F TEE + 1-100 FxH GATE VALVE.
34. 250Fx250Hx150F TEE + 1-150 FxH GATE VALVE.
35. 250 HxH 11.25" BEND.
36. 250Fx250Hx150F TEE + 1-150 FxH GATE VALVE.
37. 250 HxH 5" BEND.
38. 250 HxH 5" BEND.
- 39A. 250Hx250Fx150F TEE + 1-150 FxH GATE VALVE.
- 39B. 250Hx250Hx100F TEE + 1-100 FxH GATE VALVE.



CATCHBASIN TABLE		
NAME	RIM	INVERTS
CB 15	13.708	12.708 OUT (200 Ø)
CB 16	13.370	12.570 OUT (200 Ø)
CB 17	13.265	12.465 OUT (200 Ø)
CB 18	12.357	11.557 OUT (200 Ø)

CATCHBASIN LEAD TABLE			
NAME	SIZE	LENGTH	SLOPE
CBL-15	200 Ø	3.704 m	2.00%
CBL-16	200 Ø	7.432 m	2.00%
CBL-17	200 Ø	4.223 m	2.00%
CBL-18	200 Ø	8.676 m	2.00%



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Engineers & Geoscientists BC



2022-05-24

NOT FOR
CONSTRUCTION

E	2022MAY16	M.DHILLON	G.GALDERLIESTEN	REVISED 100% DESIGN
D	2022MAR03	M.DHILLON	G.GALDERLIESTEN	100% DESIGN
C	2021DEC23	M.DHILLON	G.GALDERLIESTEN	90% DESIGN
B	2019FEB28	A.STEPHENSON	G.GALDERLIESTEN	70% DESIGN
A	2018NOV30	A.STEPHENSON	G.GALDERLIESTEN	40% DESIGN
REV	DATE	DESIGN	DRAWN	DESCRIPTION

CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

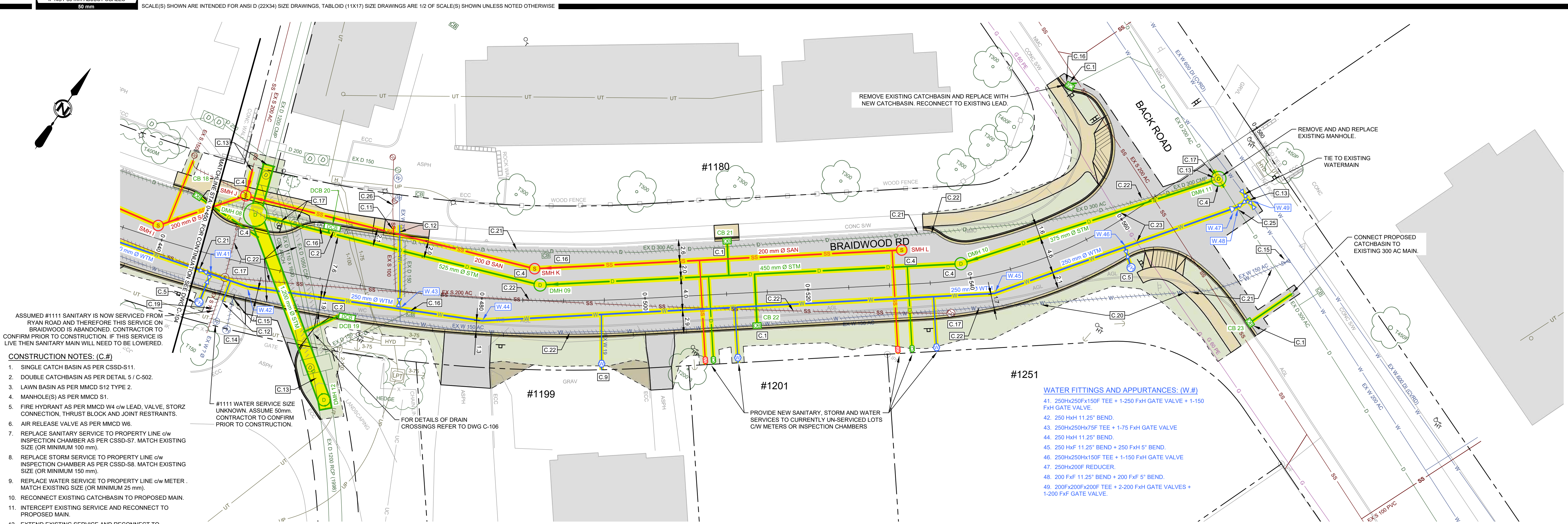
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CIVIL
UTILITY PLAN AND PROFILE
STA: 0+300 TO 0+450

DRAWING	REVISION	SHEET
2264-00-C-104	E	9 / 22

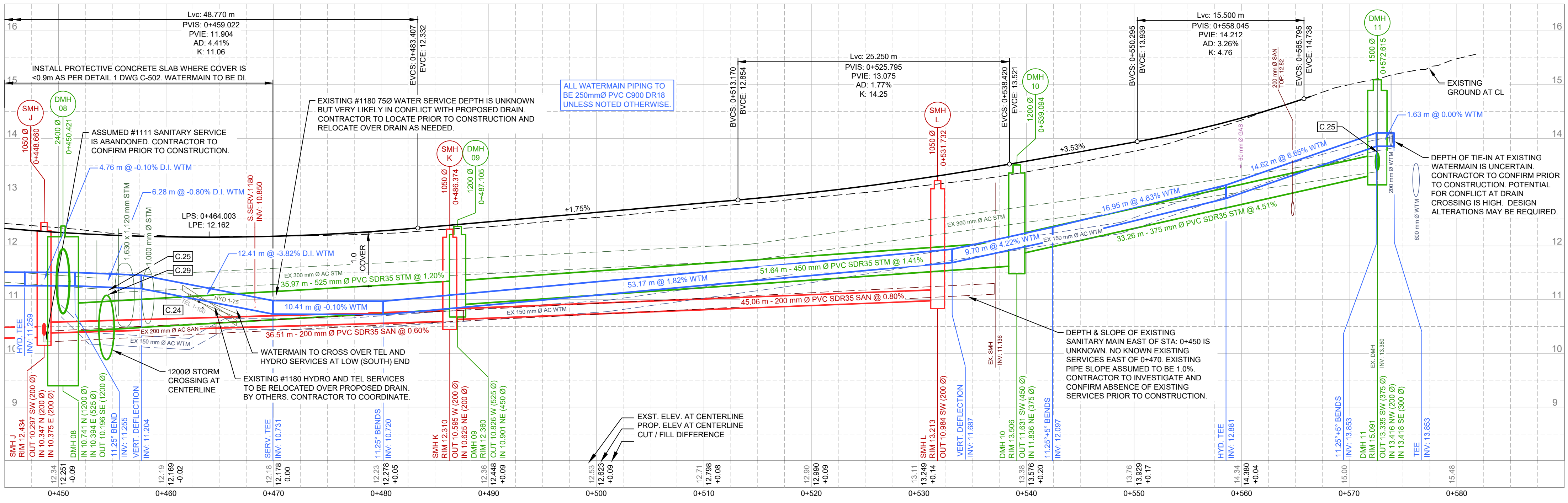
IF NOT 50 mm ADJUST SCALES
50 mm

SCALE(S) SHOWN ARE INTENDED FOR ANSI D (22X34) SIZE DRAWINGS, TABLOID (11X17) SIZE DRAWINGS ARE 1/2 OF SCALE(S) SHOWN UNLESS NOTED OTHERWISE



- CONSTRUCTION NOTES: (C.#)
1. SINGLE CATCH BASIN AS PER CSSD-S11.
 2. DOUBLE CATCHBASIN AS PER DETAIL 5 / C-502.
 3. LAWN BASIN AS PER MMCD S12 TYPE 2.
 4. MANHOLE(S) AS PER MMCD S1.
 5. FIRE HYDRANT AS PER MMCD W4 c/w LEAD, VALVE, STORZ CONNECTION, THRUST BLOCK AND JOINT RESTRAINTS.
 6. AIR RELEASE VALVE AS PER MMCD W6.
 7. REPLACE SANITARY SERVICE TO PROPERTY LINE c/w INSPECTION CHAMBER AS PER CSSD-S7. MATCH EXISTING SIZE (OR MINIMUM 100 mm).
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 14. REMOVE EXISTING HYDRANT AND DISPOSE OFFSITE. EXISTING LEAD TO BE CAPPED OR PLUGGED WATERTIGHT.
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 28. SERVICE DEPTH CRITICAL. REDUCE PIPE SLOPE TO 1.0% IF REQUIRED.
 29. IF VERTICAL SEPARATION LESS THAN 150 mm FILL SEPARATION SPACE WITH CONTROL DENSITY FILL (CDF) TO SPRINGLINE OF BOTH PIPES.

- WATER FITTINGS AND APPURTANCES: (W.#)
41. 250Hx250Fx150F TEE + 1-250 FxH GATE VALVE + 1-150 FxH GATE VALVE.
 42. 250 HxH 11.25" BEND.
 43. 250Hx250Hx75F TEE + 1-75 FxH GATE VALVE
 44. 250 HxH 11.25" BEND.
 45. 250 HxH 11.25" BEND + 250 FxH 5" BEND.
 46. 250Hx250Hx150F TEE + 1-150 FxH GATE VALVE
 47. 250Hx200F REDUCER.
 48. 200 FxH 11.25" BEND + 200 FxH 5" BEND.
 49. 200Fx200Fx200F TEE + 2-200 FxH GATE VALVES + 1-200 FxH GATE VALVE.



CATCHBASIN TABLE			
NAME	RIM	INVERTS	
CB 21	12.682	11.782 OUT (200 Ø)	
CB 22	12.764	11.964 OUT (200 Ø)	
CB 23	14.641	13.841 OUT (200 Ø)	
DCB 19	12.050	11.040 OUT (200 Ø)	
DCB 20	12.015	11.015 OUT (200 Ø)	

CATCHBASIN LEAD TABLE			
NAME	SIZE	LENGTH	SLOPE
CBL-19	200 Ø	4.738 m	2.00%
CBL-20	200 Ø	0.787 m	2.00%
CBL-21	200 Ø	4.540 m	2.00%
CBL-22	200 Ø	6.638 m	2.00%
CBL-23	200 Ø	6.538 m	2.00%

- NOTE TYPE KEY
- | | |
|------|----------------------------|
| NOTE | SPECIFIC CONSTRUCTION NOTE |
| C.1 | STANDARD CONSTRUCTION NOTE |
| W.1 | WATER FITTING NOTE |

NOT FOR CONSTRUCTION

PERMIT TO PRACTICE
ASSOCIATED ENGINEERING (B.C.) LTD.
PERMIT NUMBER: 1000163
Engineers & Geoscientists BC

CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

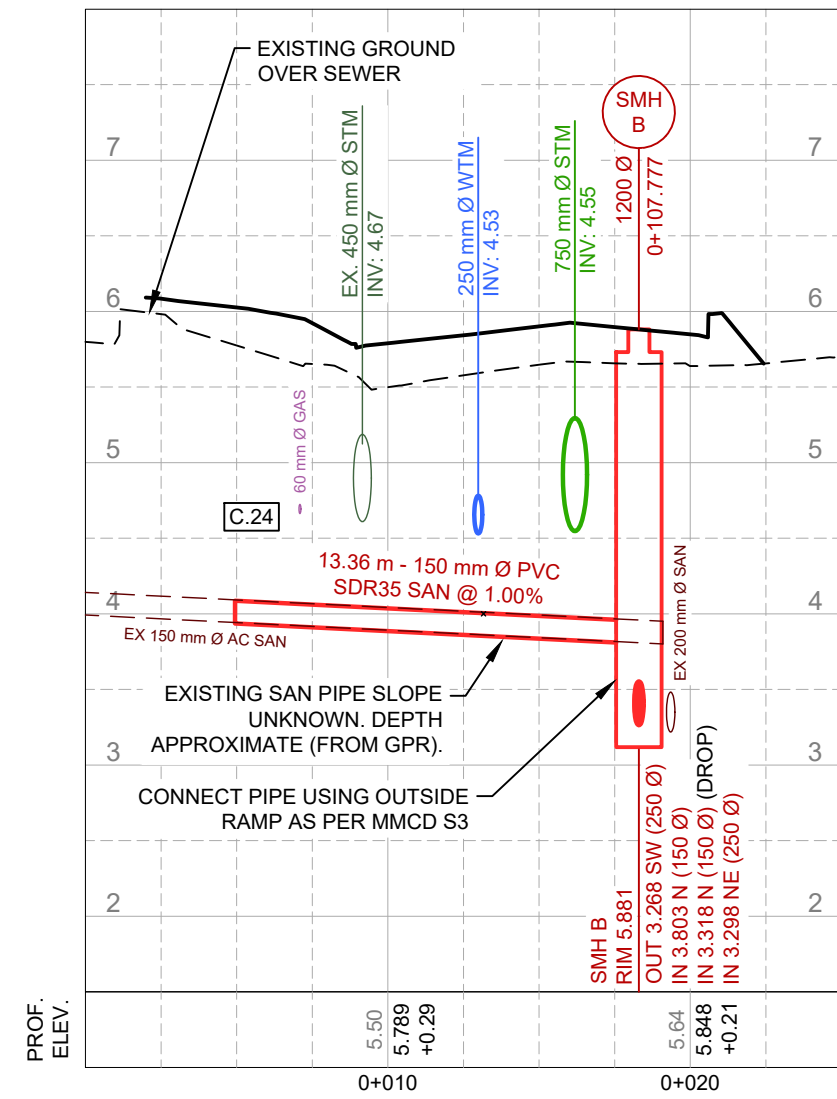
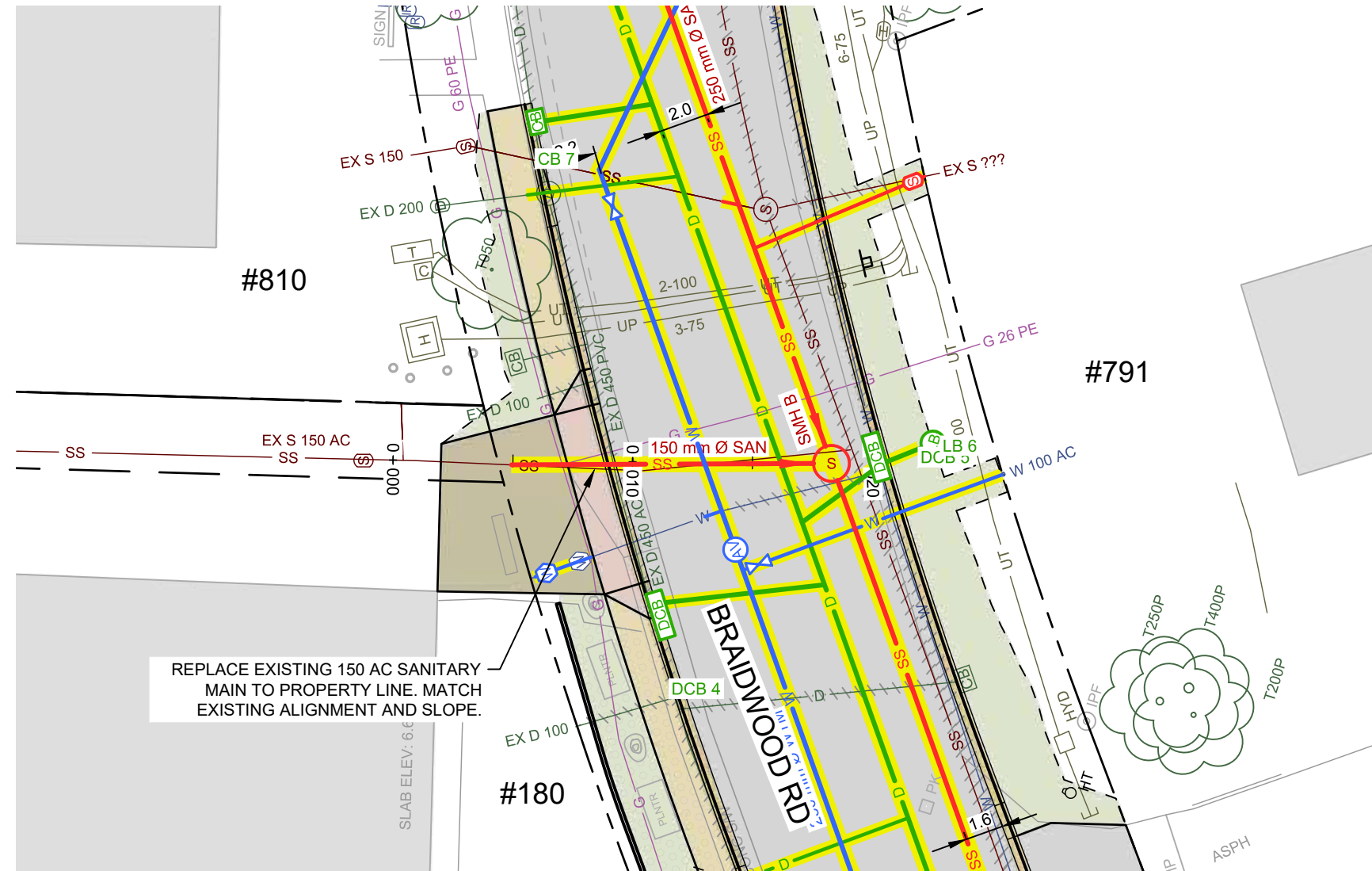
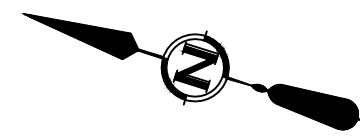
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CIVIL
UTILITY PLAN AND PROFILE
STA: 0+450 TO 0+600

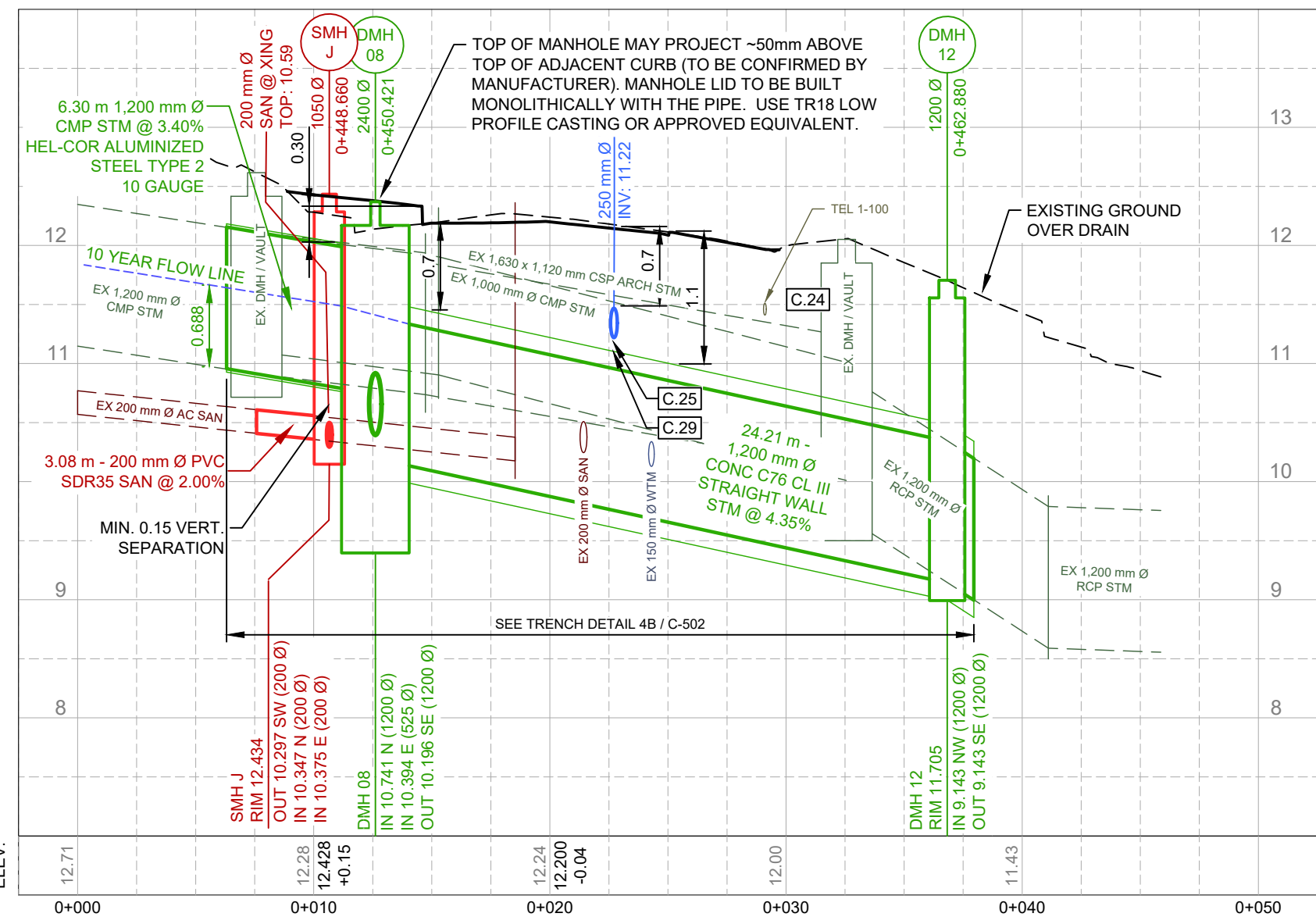
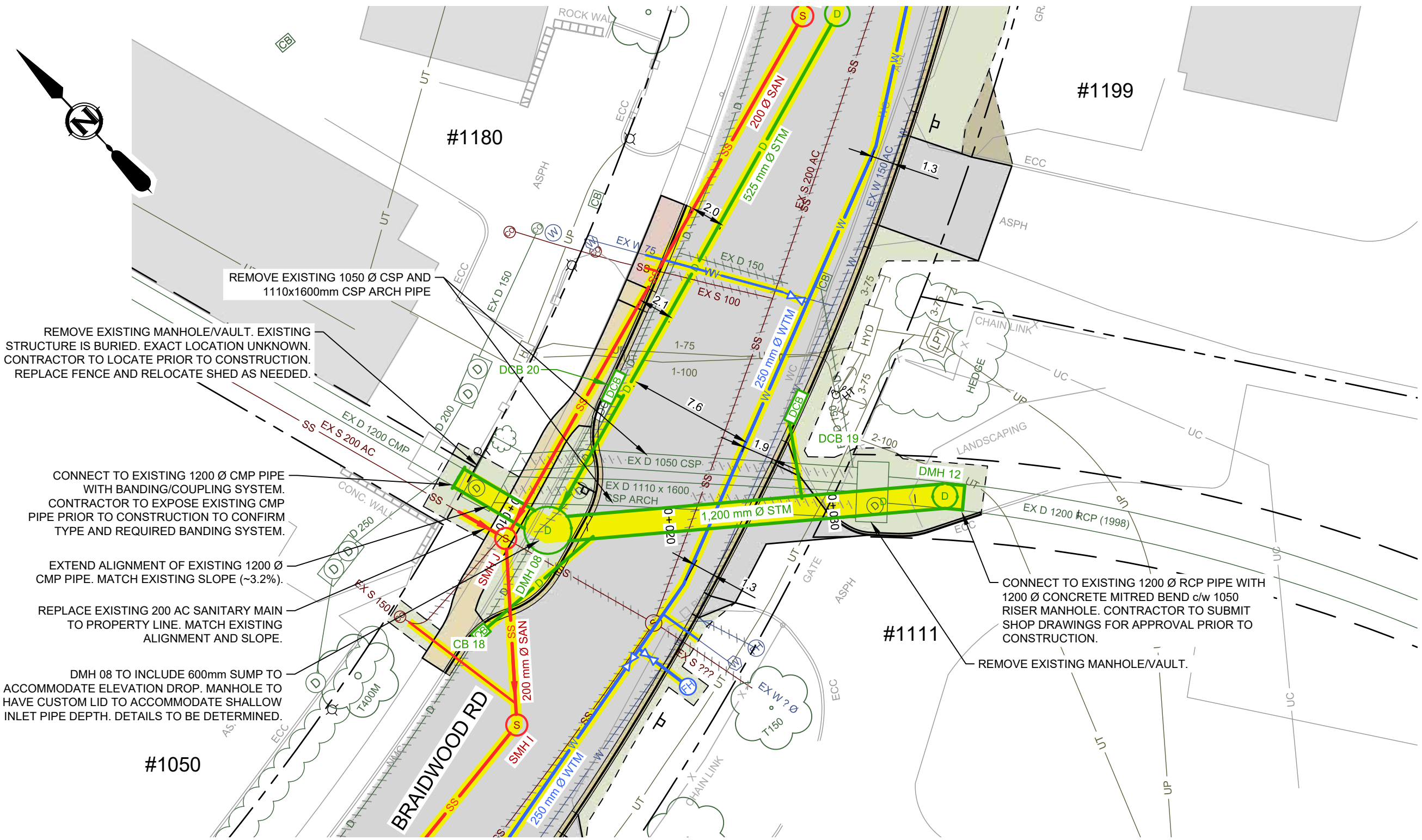
DRAWING	REVISION	SHEET
2264-00-C-105	E	10 / 22



2022-05-24

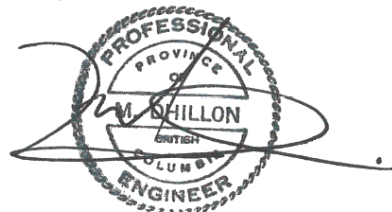


NOTE TYPE KEY
NOTE SPECIFIC CONSTRUCTION NOTE
C.1 STANDARD CONSTRUCTION NOTE
W.1 WATER FITTING NOTE



PERMIT TO PRACTICE
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NOT FOR
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2022-05-24

C	2022MAY16	M.DHILLON	G.ALDERLIESTEN	REVISED 100% DESIGN
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REV	DATE	DESIGN	DRAWN	DESCRIPTION

CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

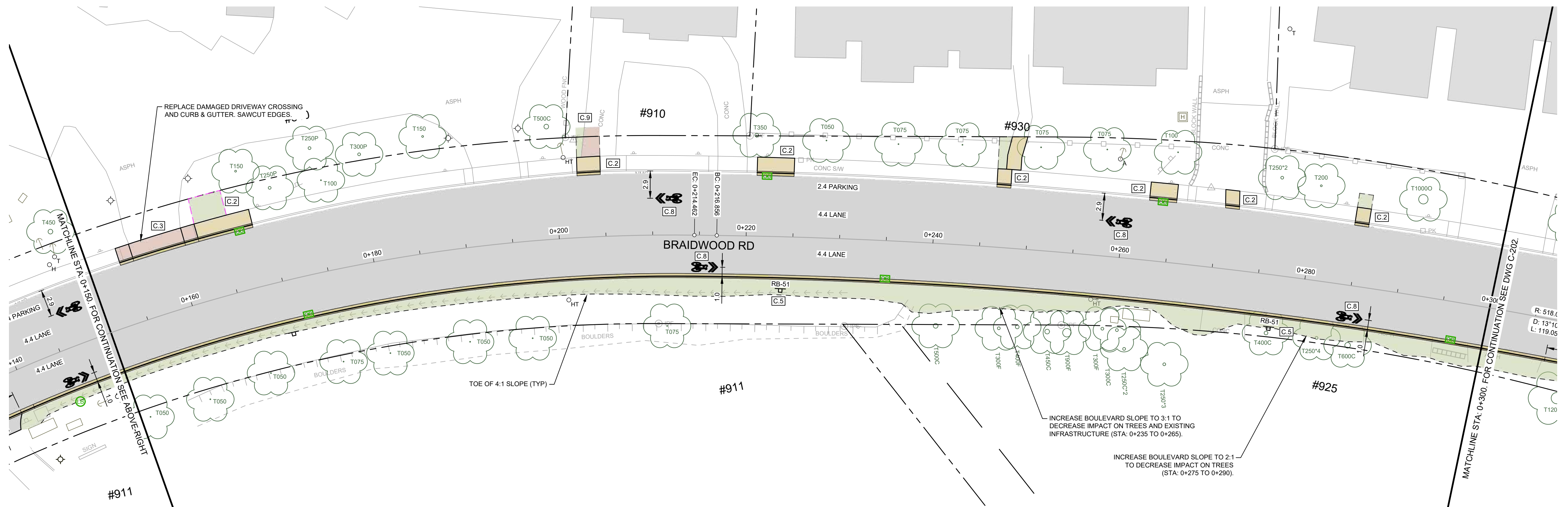
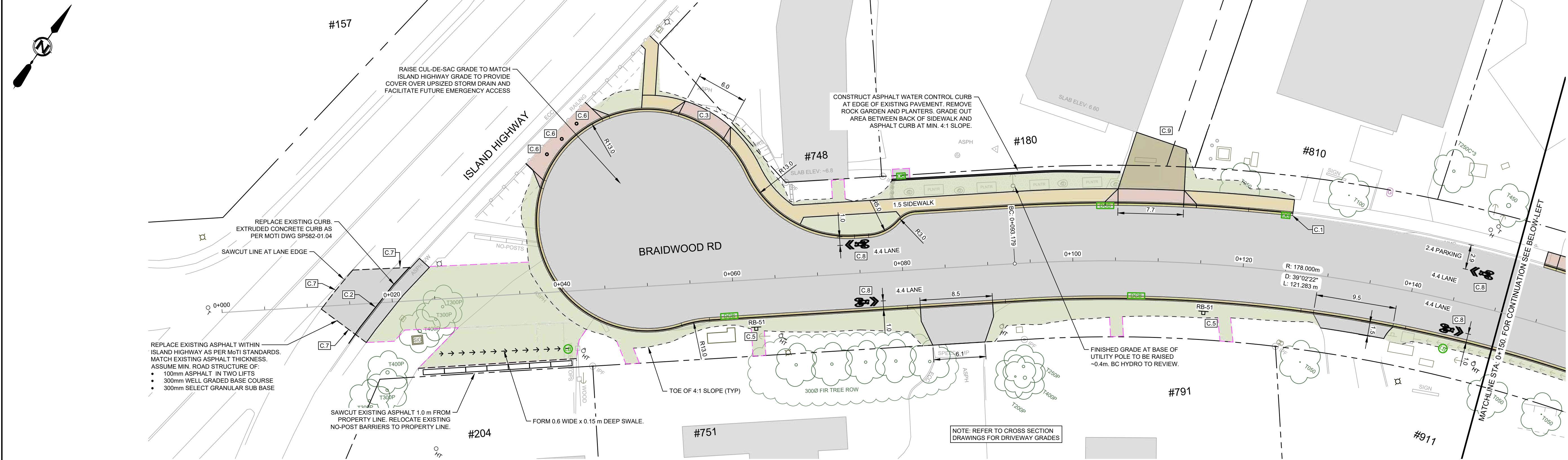
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CIVIL
UTILITY PLAN AND PROFILE
LATERAL MAINS

DRAWING	REVISION	SHEET
2264-00-C-106	C	11 / 22

IF NOT 50 mm ADJUST SCALES
50 mm

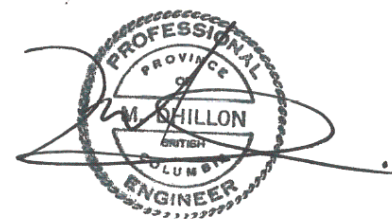
SCALE(S) SHOWN ARE INTENDED FOR ANSI D (22X34) SIZE DRAWINGS, TABLOID (11X17) SIZE DRAWINGS ARE 1/2 OF SCALE(S) SHOWN UNLESS NOTED OTHERWISE



Q:\2021-2264-00\civ\2264-00-c-201-202.dwg
DATE: 2022-05-20, Gerrit Alderliesten



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Engineers & Geoscientists BC



2022-05-24

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REV	DATE	DESIGN	DRAWN	DESCRIPTION

CITY OF COURTENAY

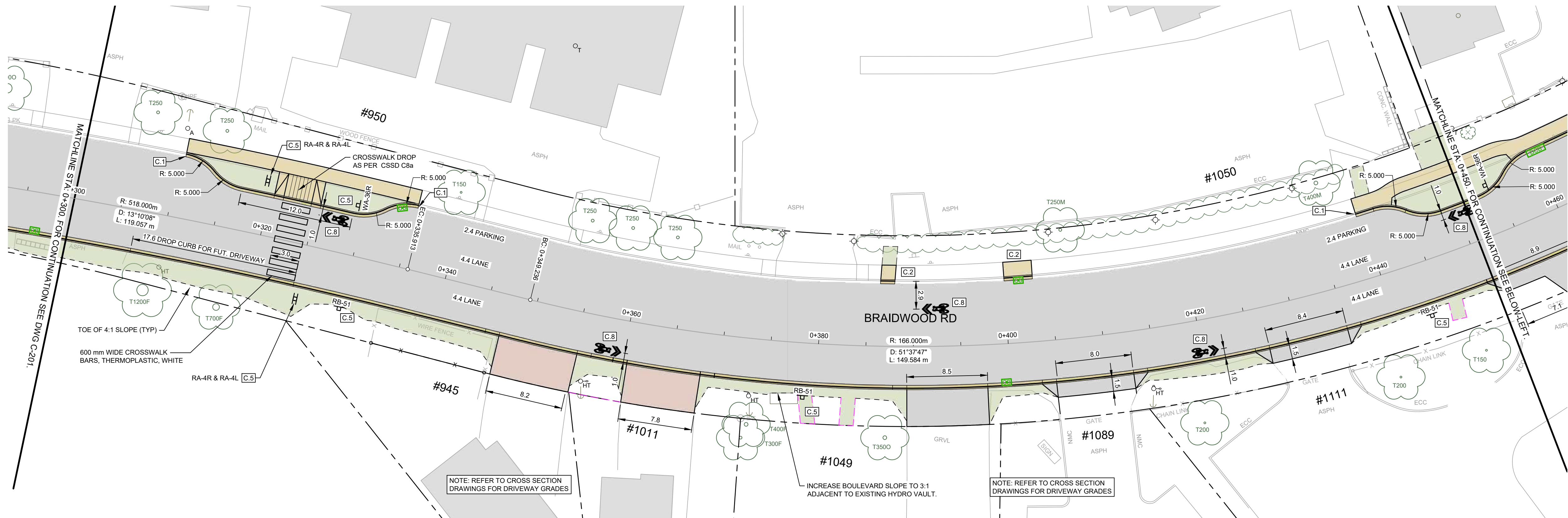
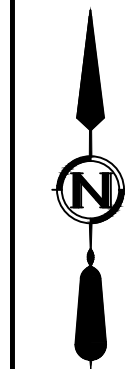
BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

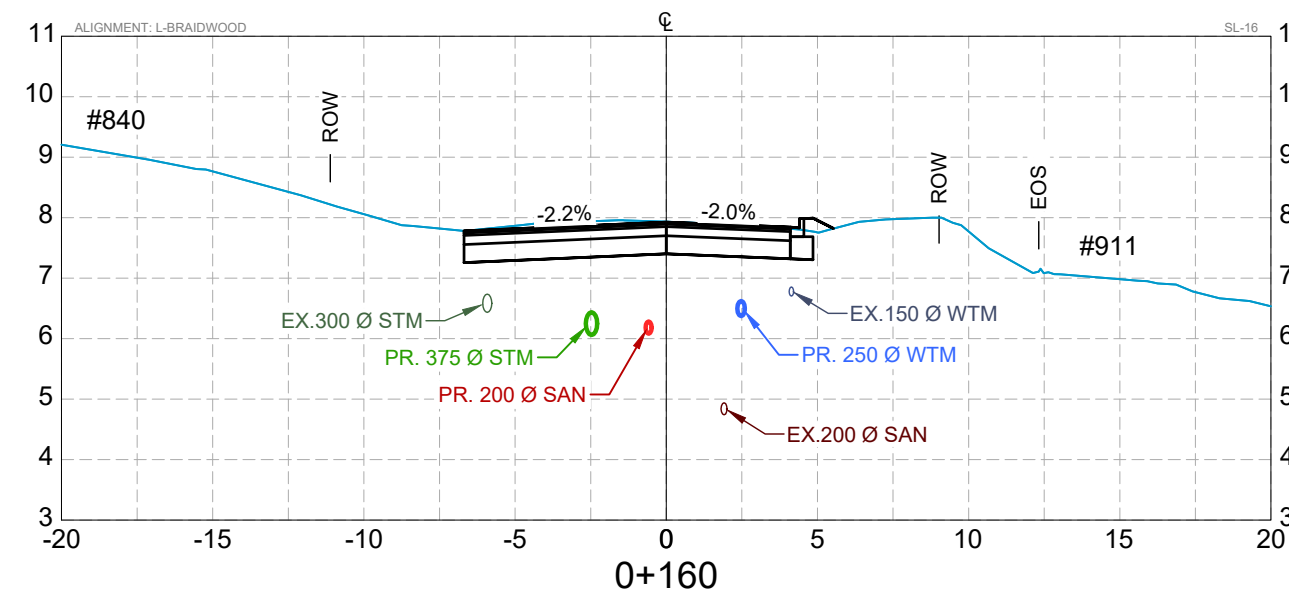
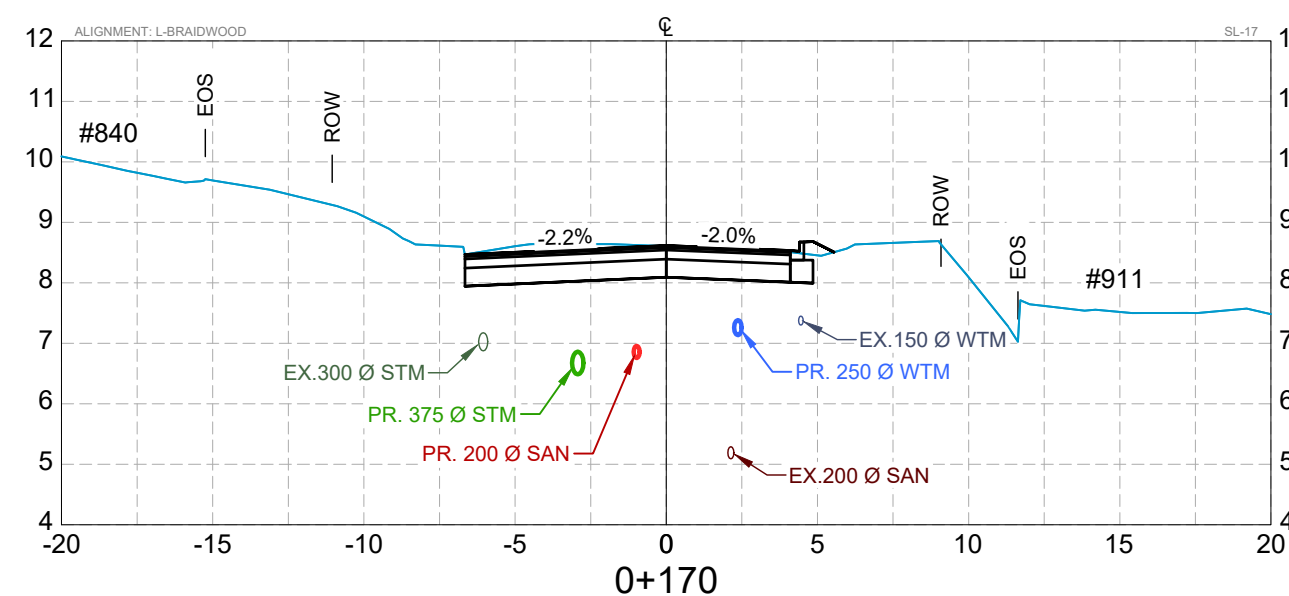
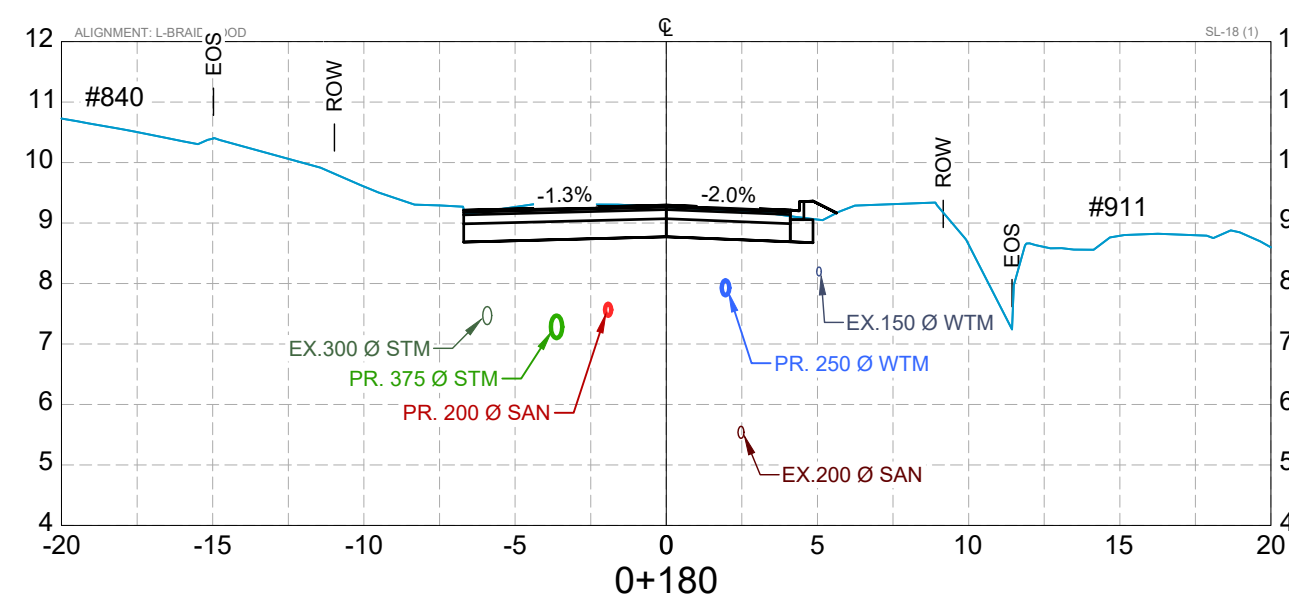
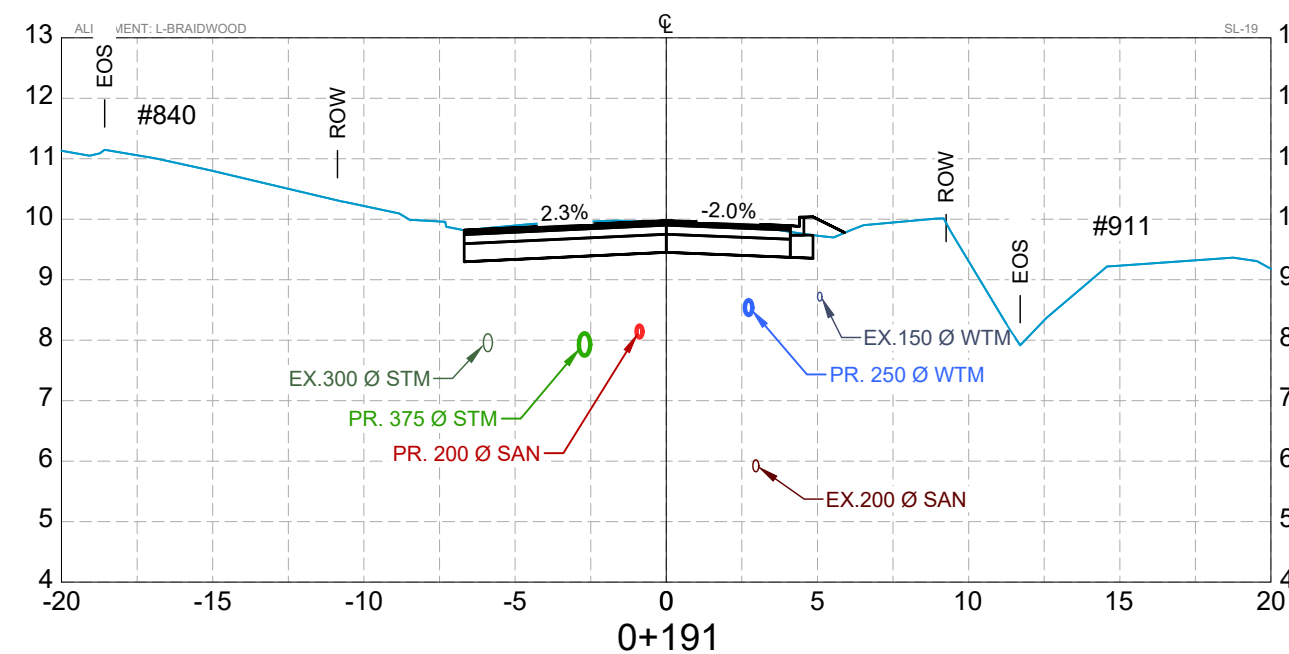
2021-2264-00

SCALE: 1:250

CIVIL
ROADWORKS PLAN
STA: 0+000 TO 0+300

DRAWING	REVISION	SHEET
2264-00-C-201	E	12 / 22

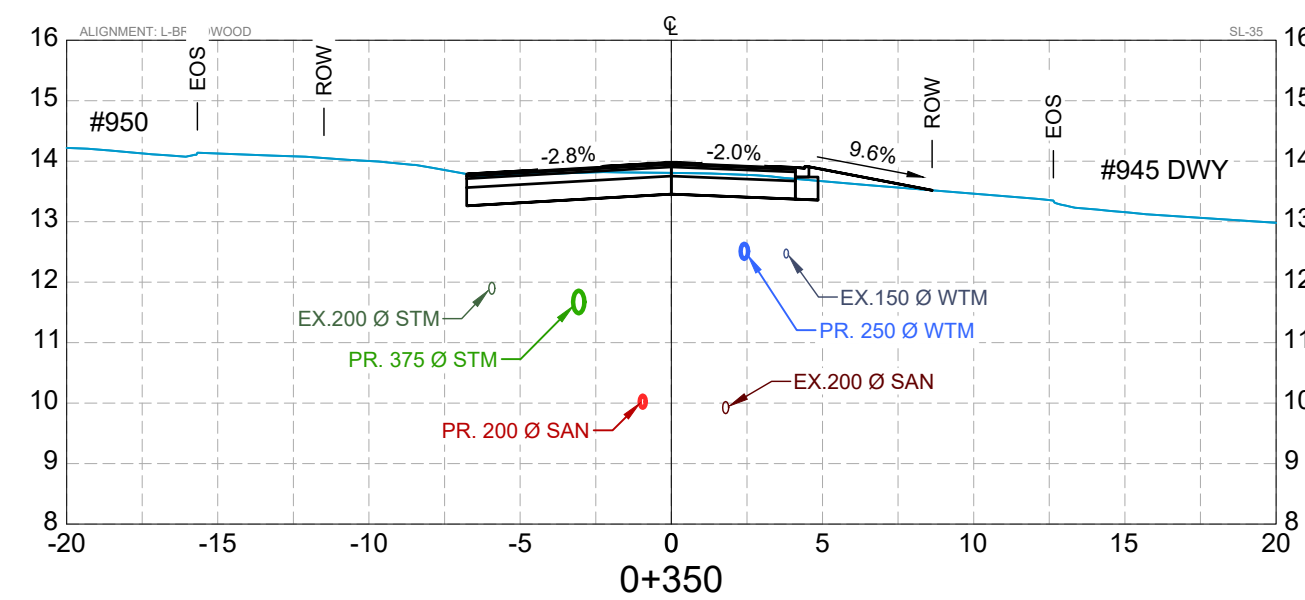
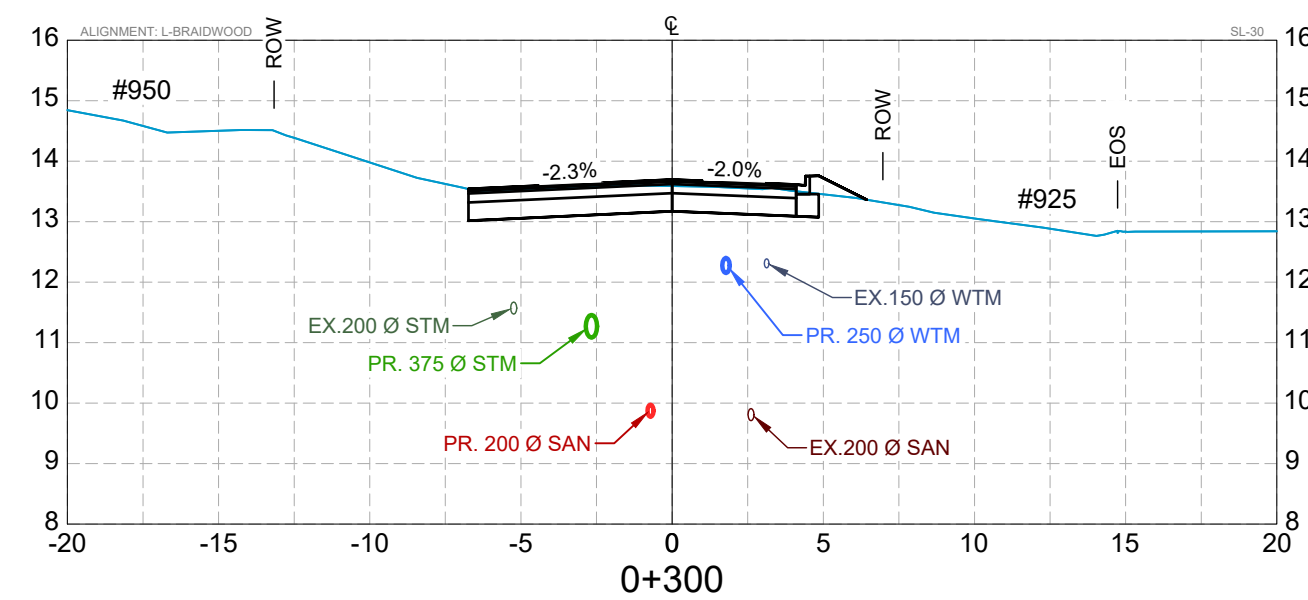
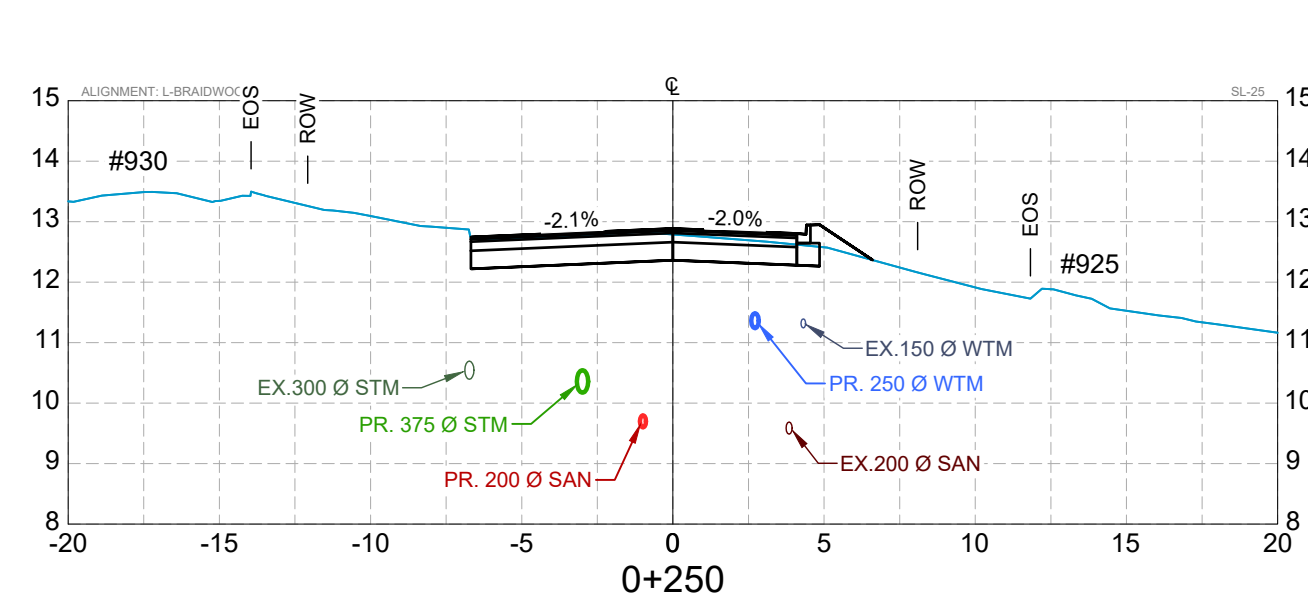
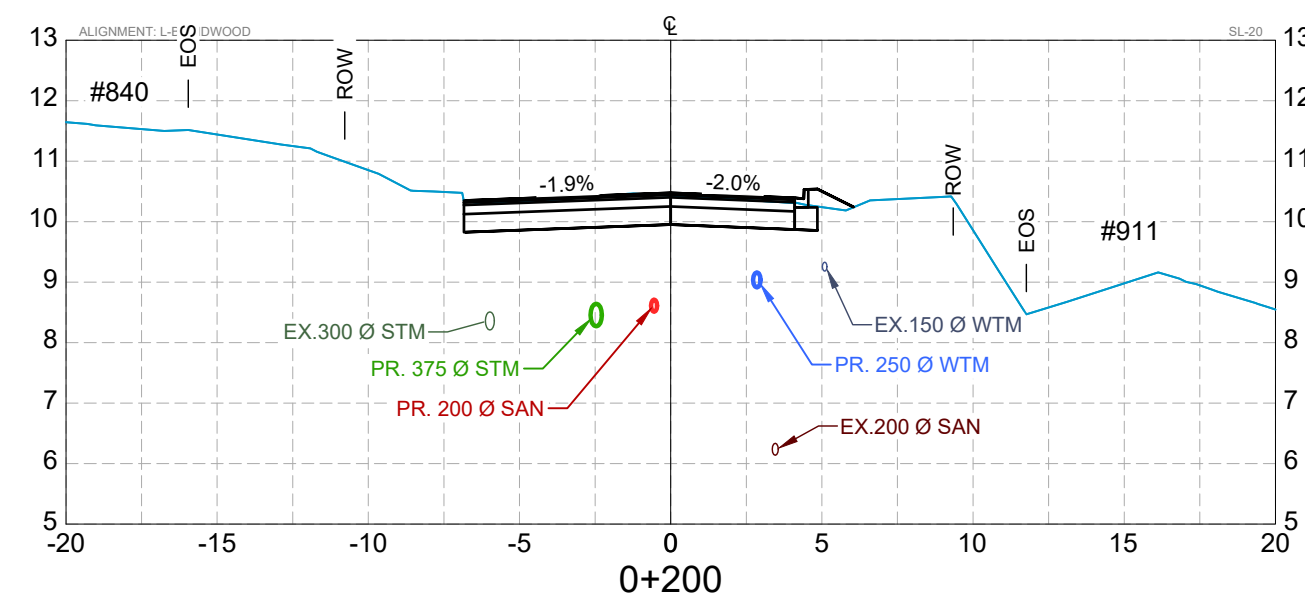
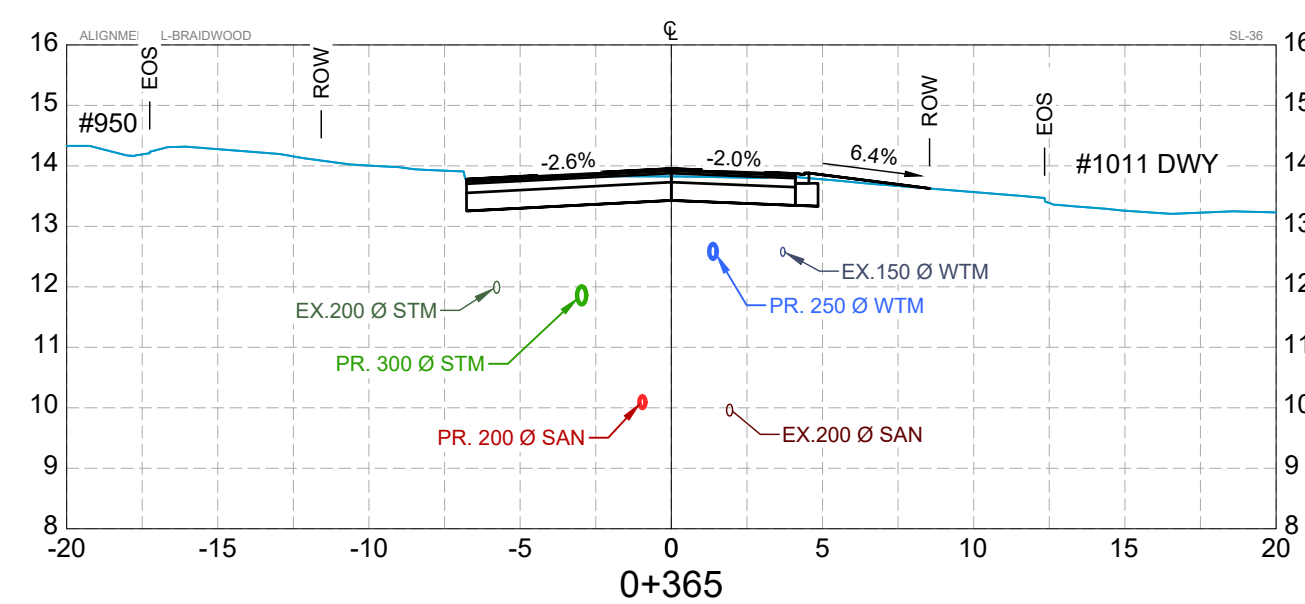
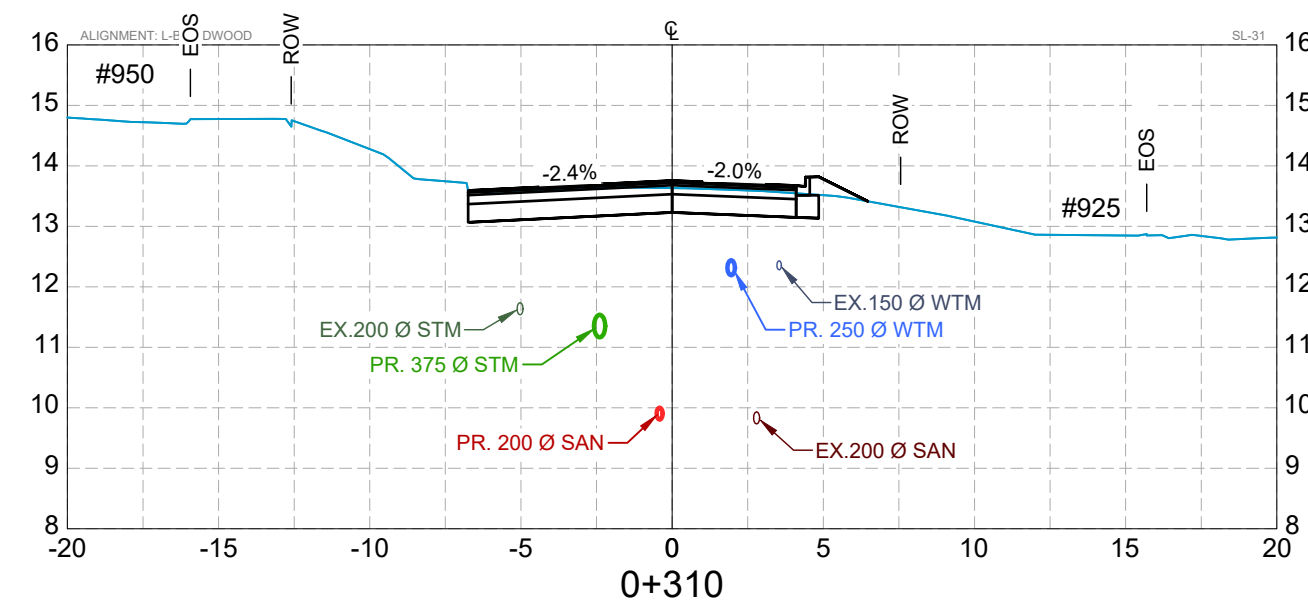
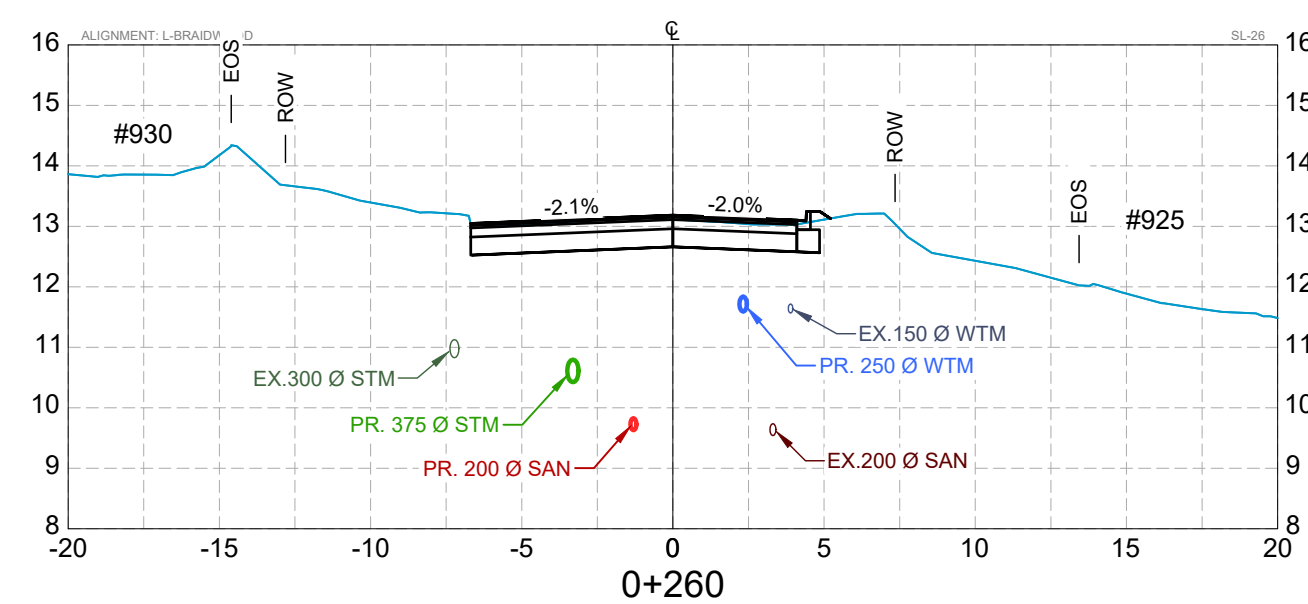
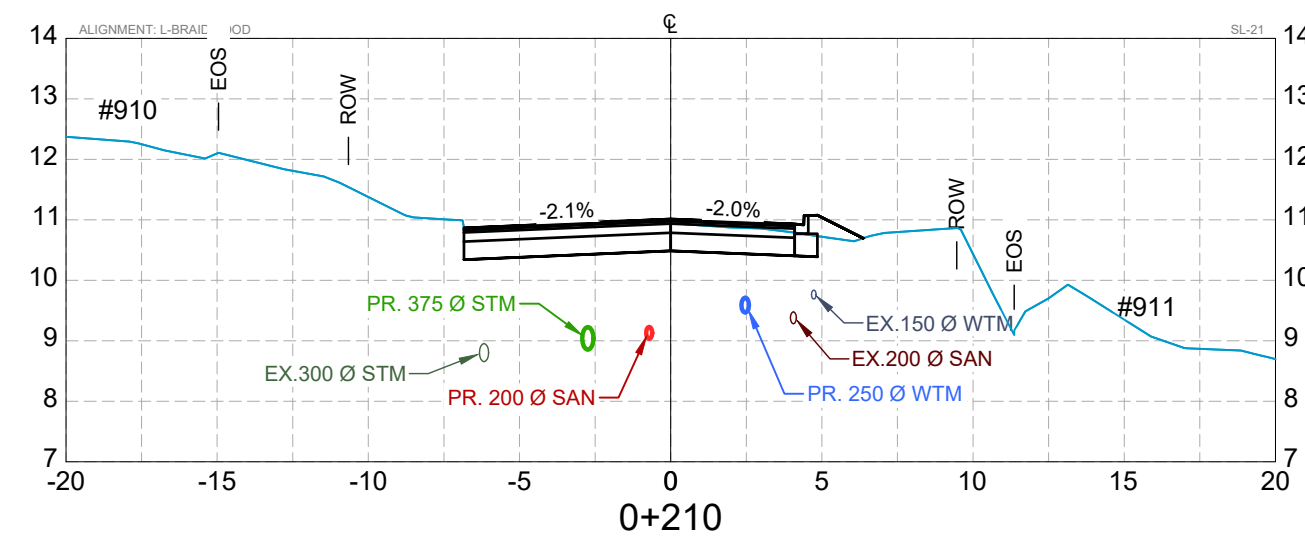
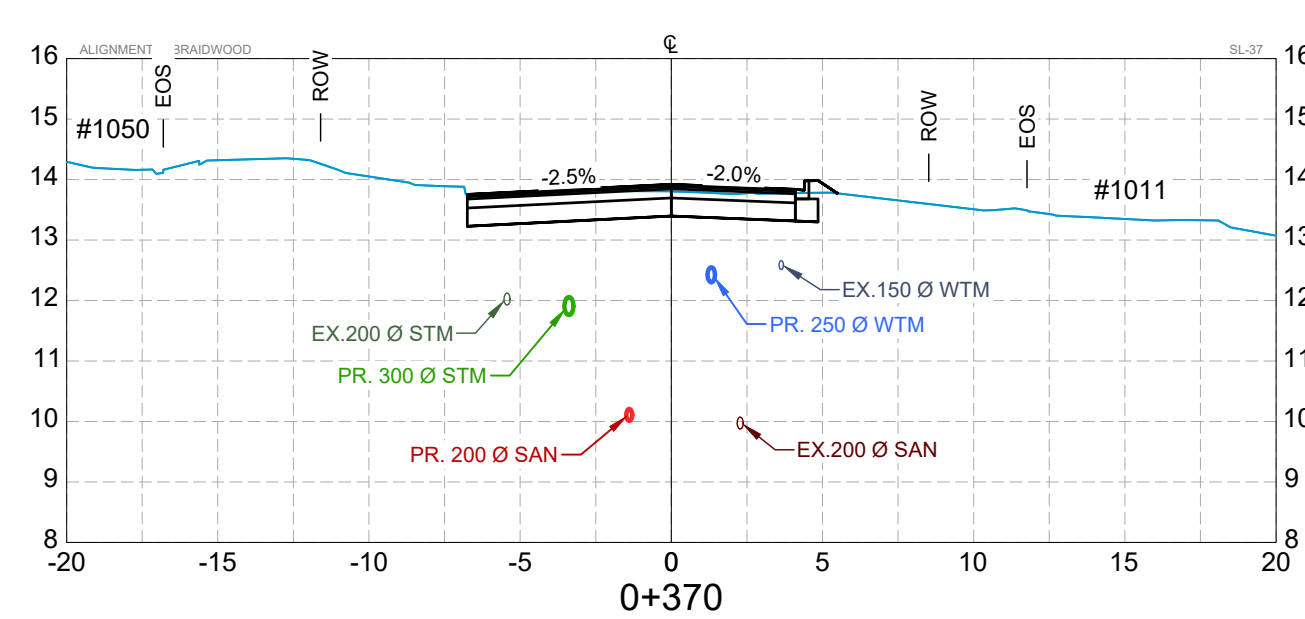
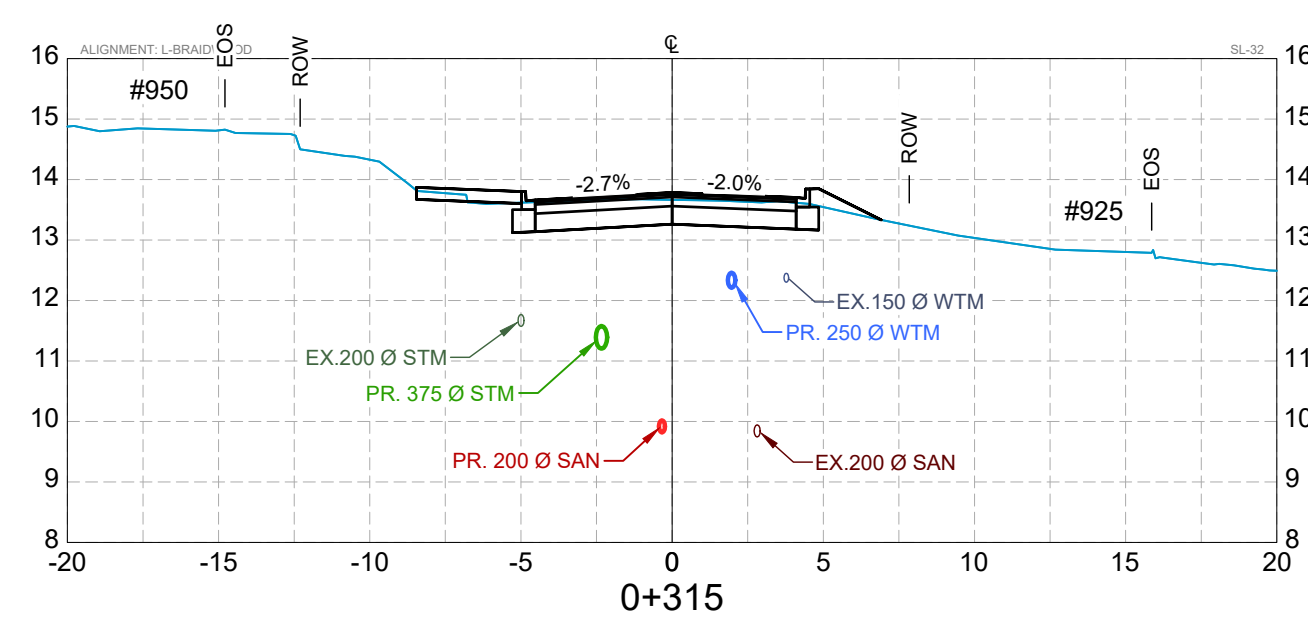
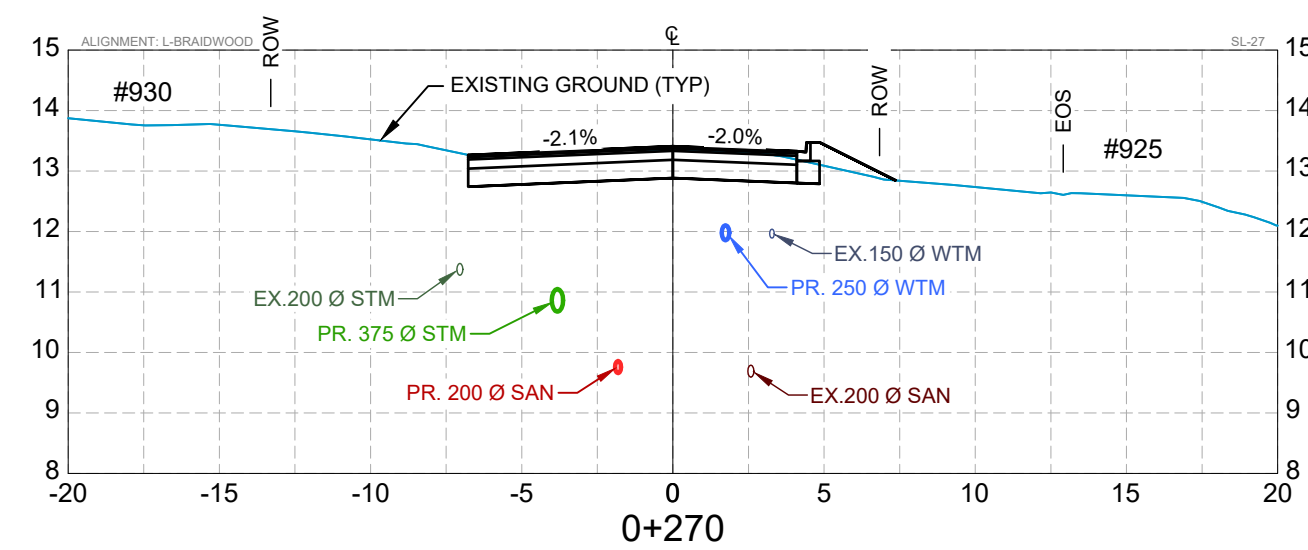
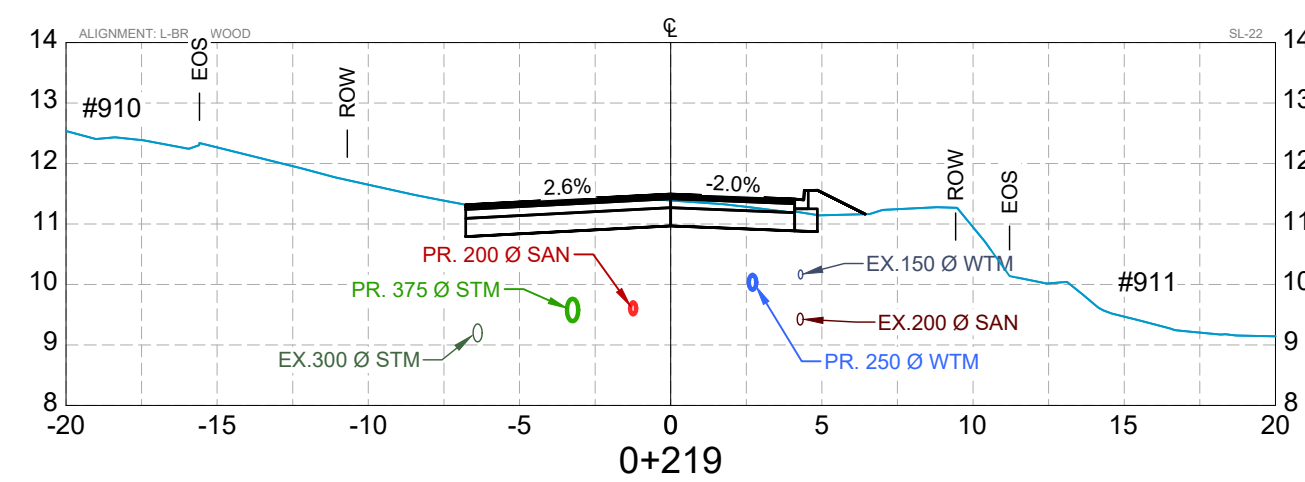
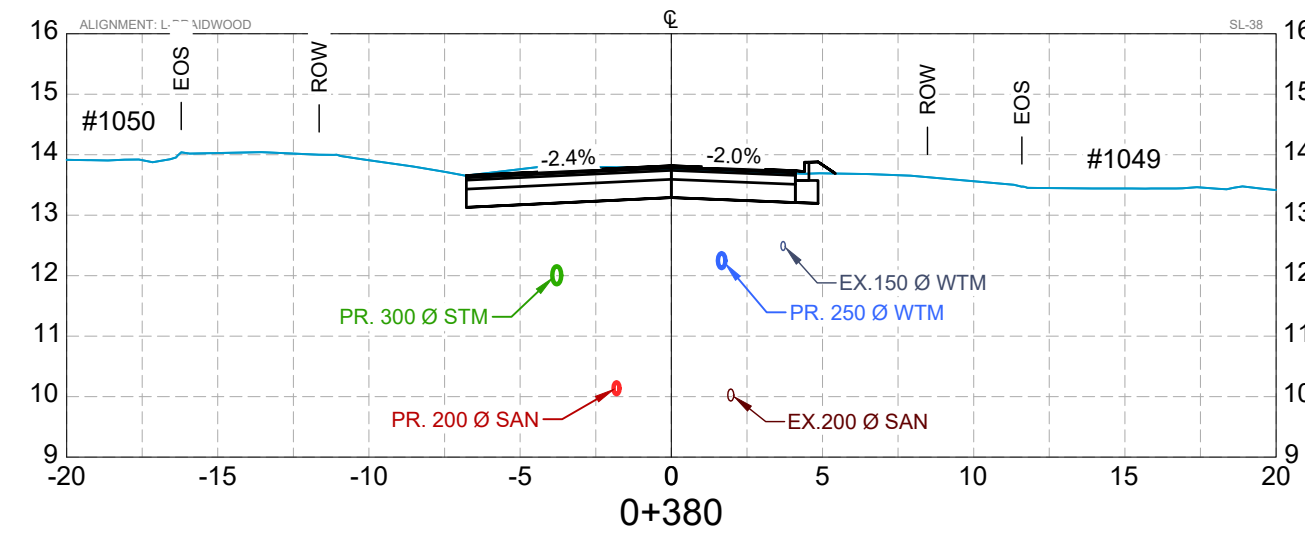
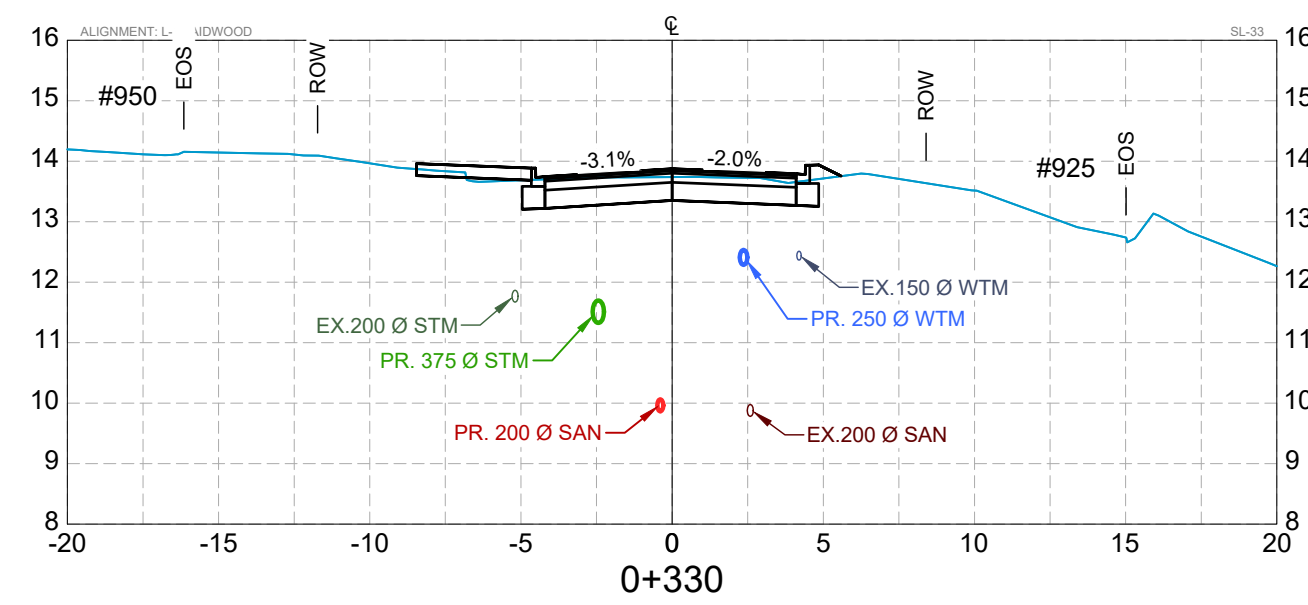
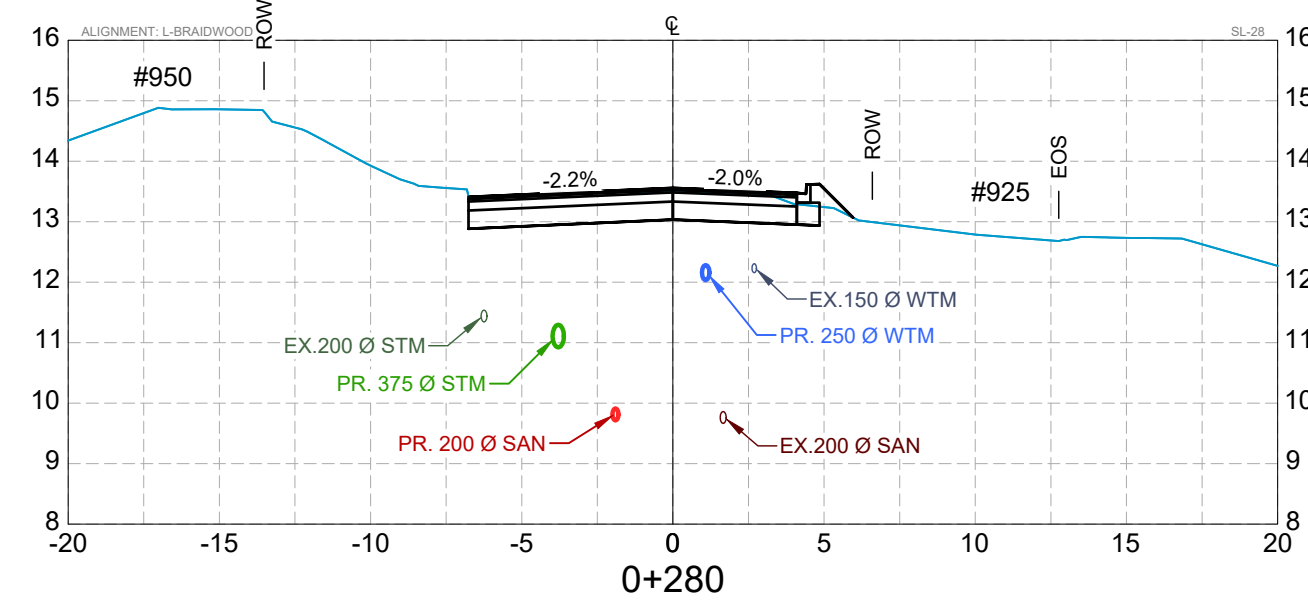
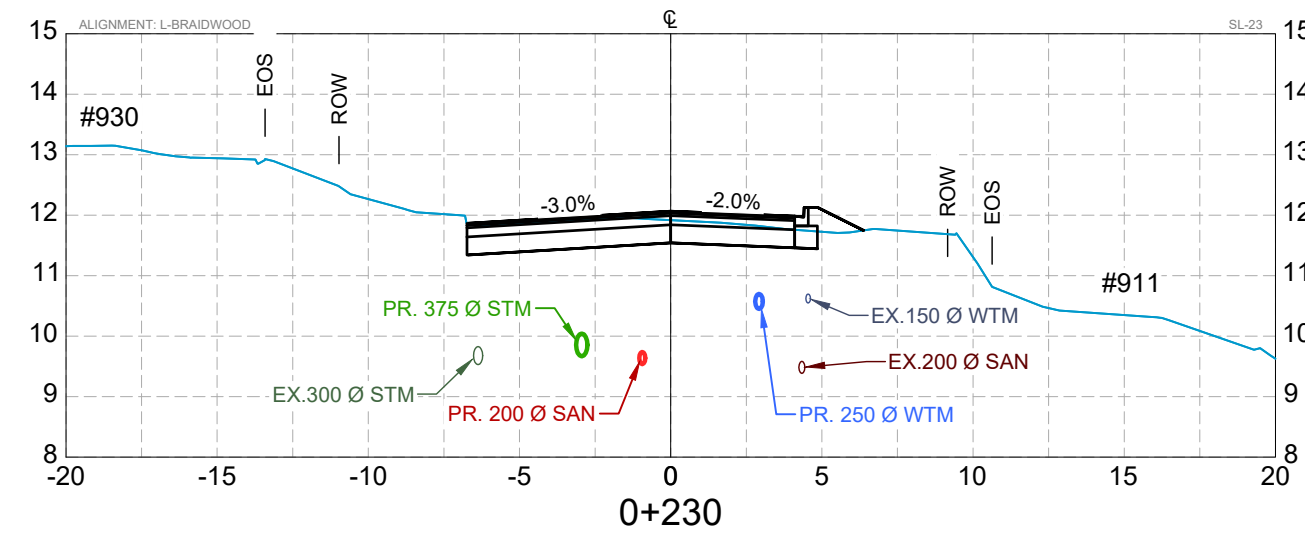
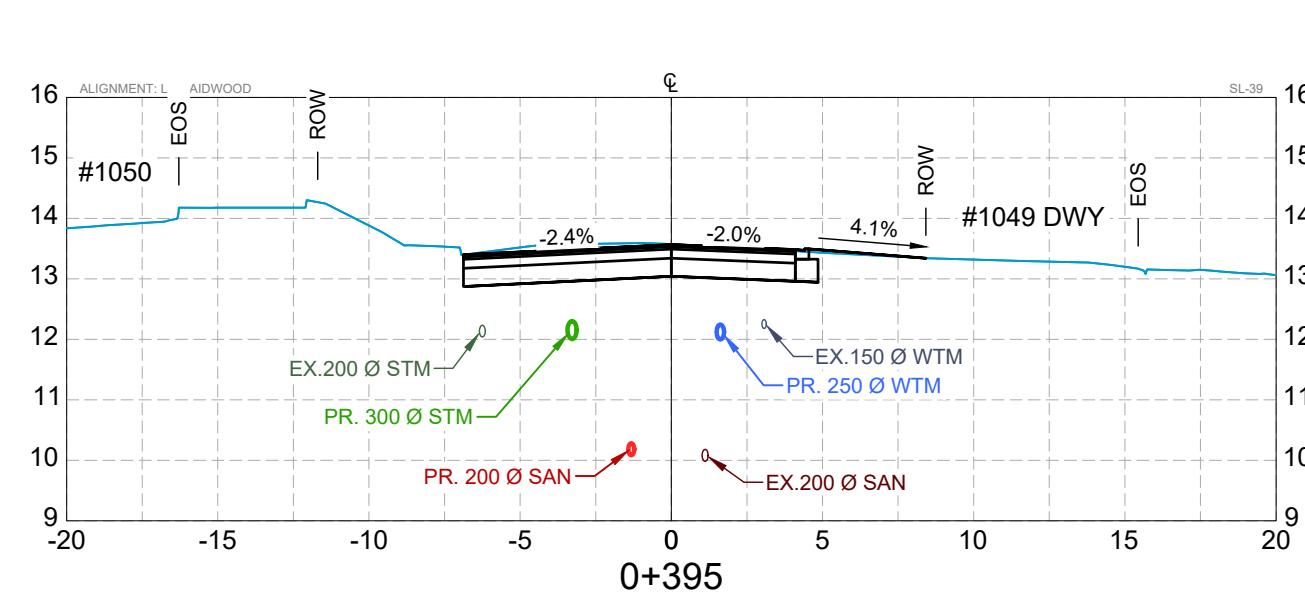
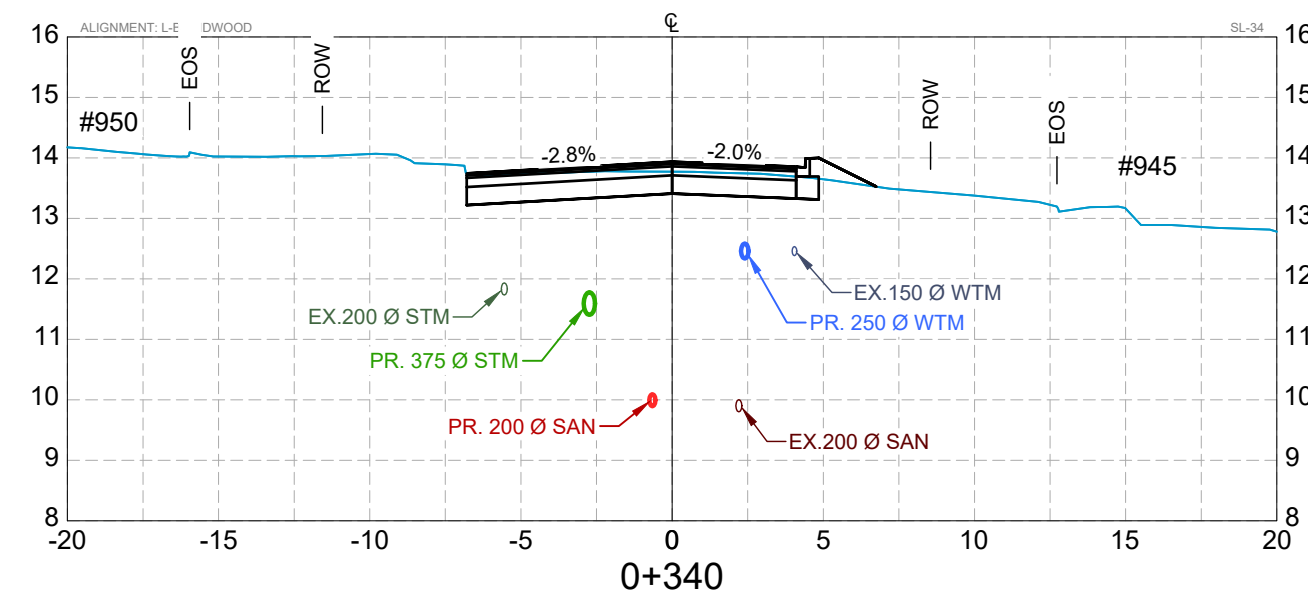
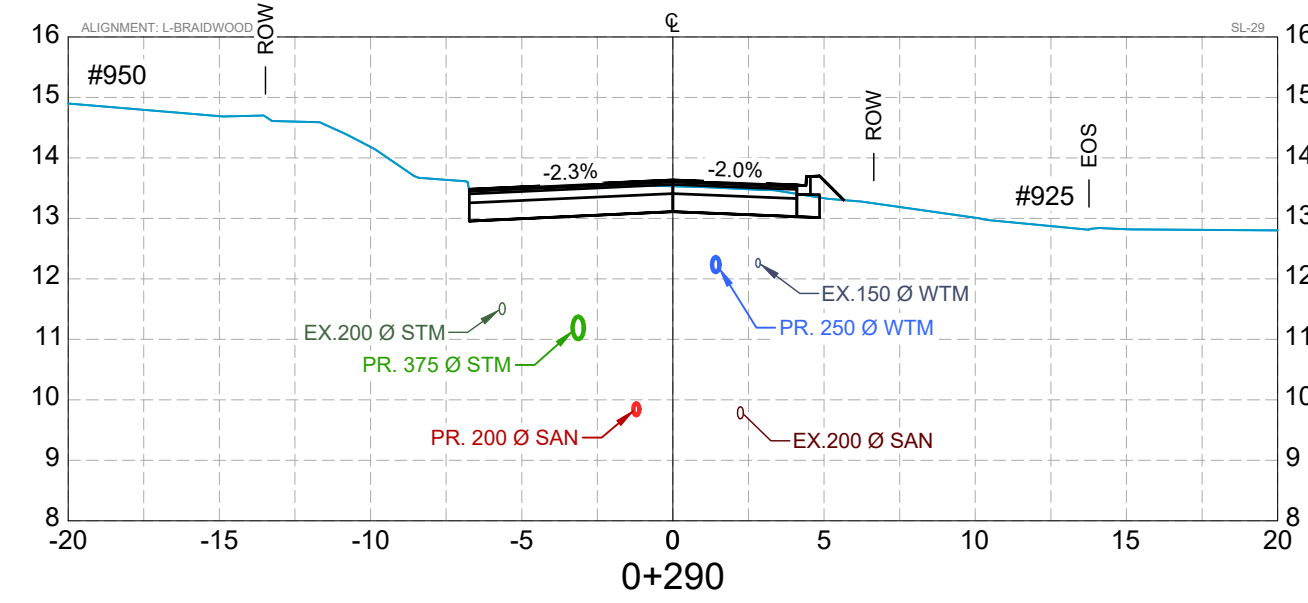
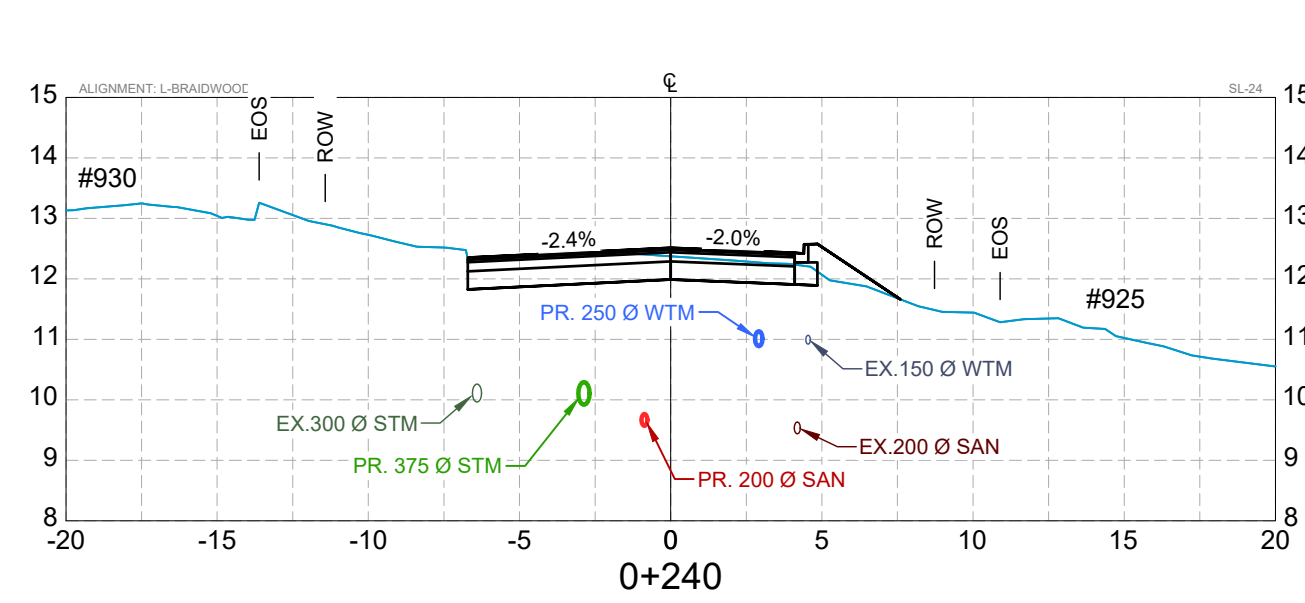




DRAWING	REVISION	SHEET
2264-00-C-301	D	14 / 22

IF NOT 50 mm ADJUST SCALES
50 mm

SCALE(S) SHOWN ARE INTENDED FOR ANSI D (22X34) SIZE DRAWINGS, TABLOID (11X17) SIZE DRAWINGS ARE 1/2 OF SCALE(S) SHOWN UNLESS NOTED OTHERWISE



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PERMIT TO PRACTICE
ASSOCIATED ENGINEERING (B.C.) LTD.
PERMIT NUMBER: 1000163
Engineers & Geoscientists BC

NOT FOR
CONSTRUCTION



2022-05-24

CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

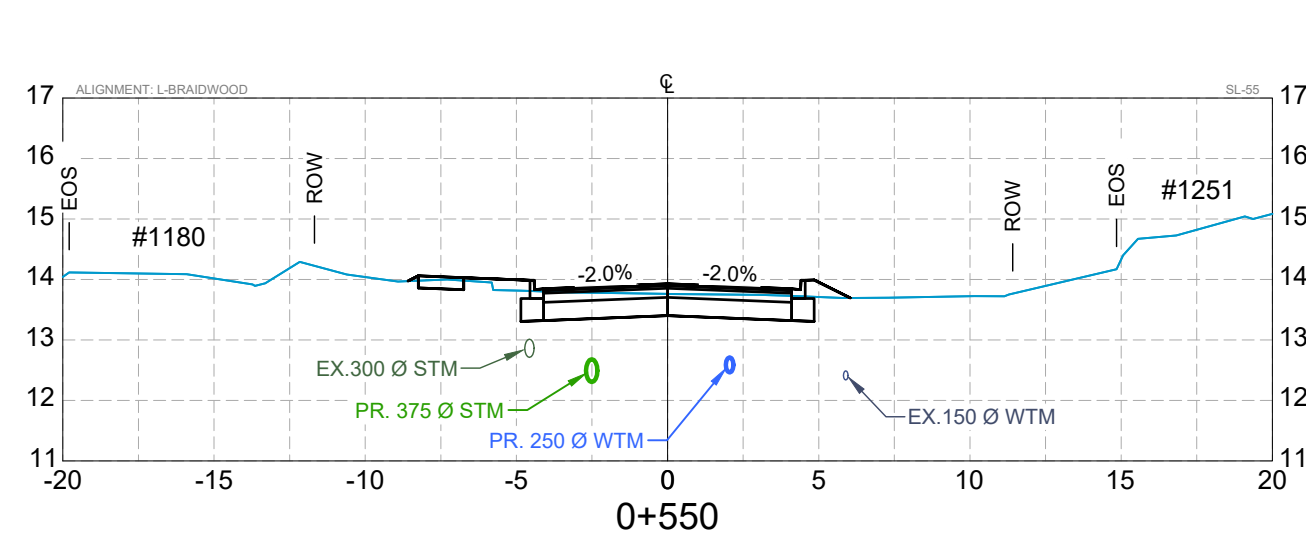
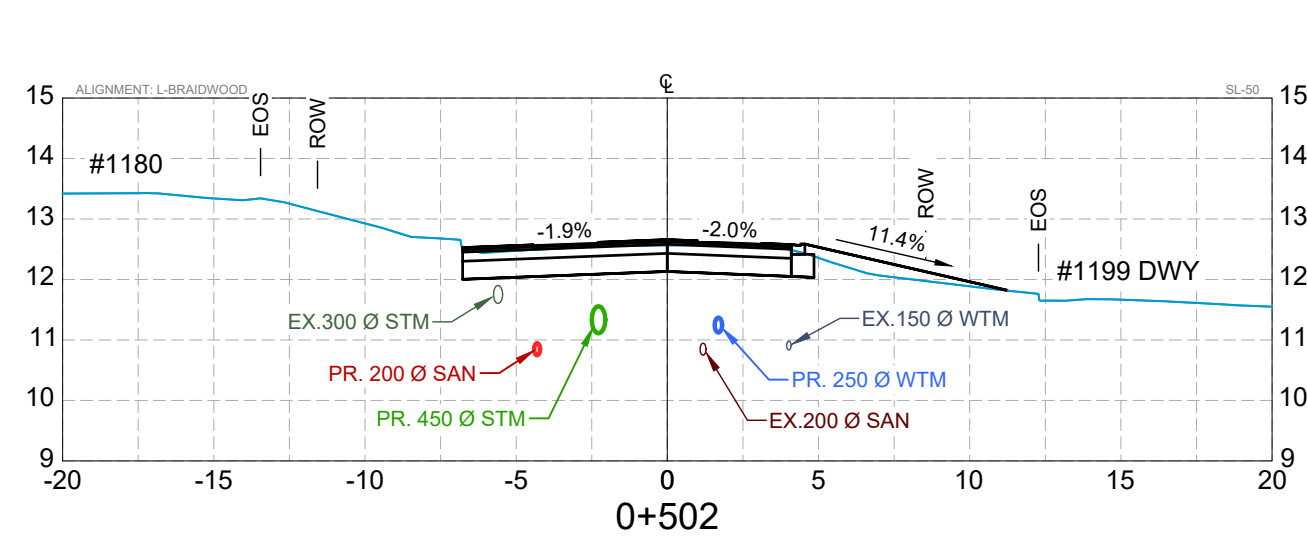
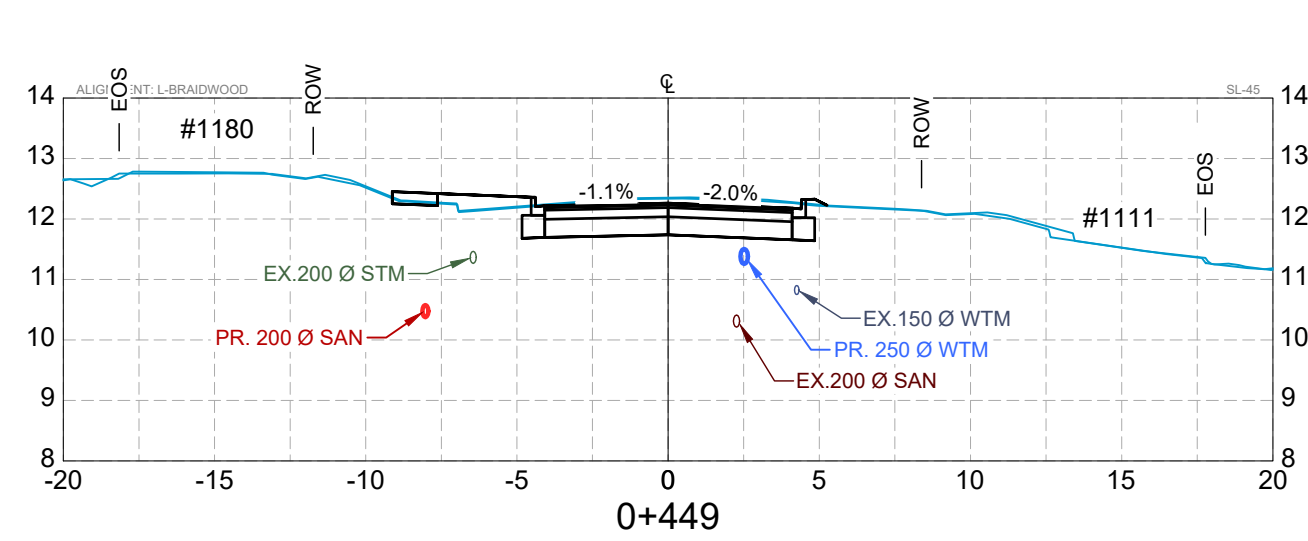
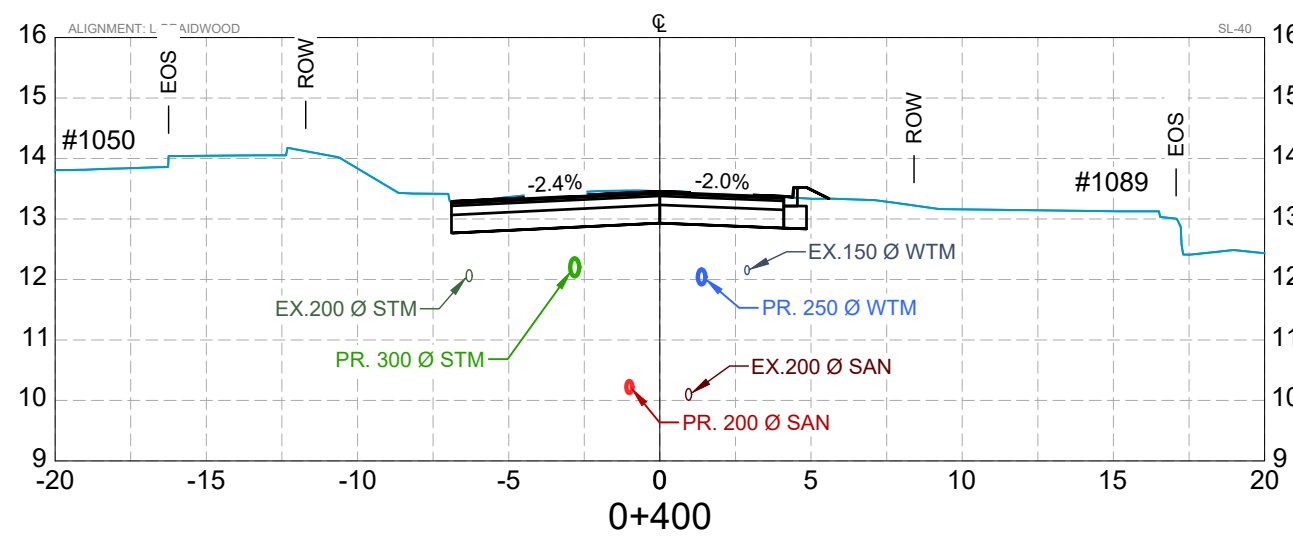
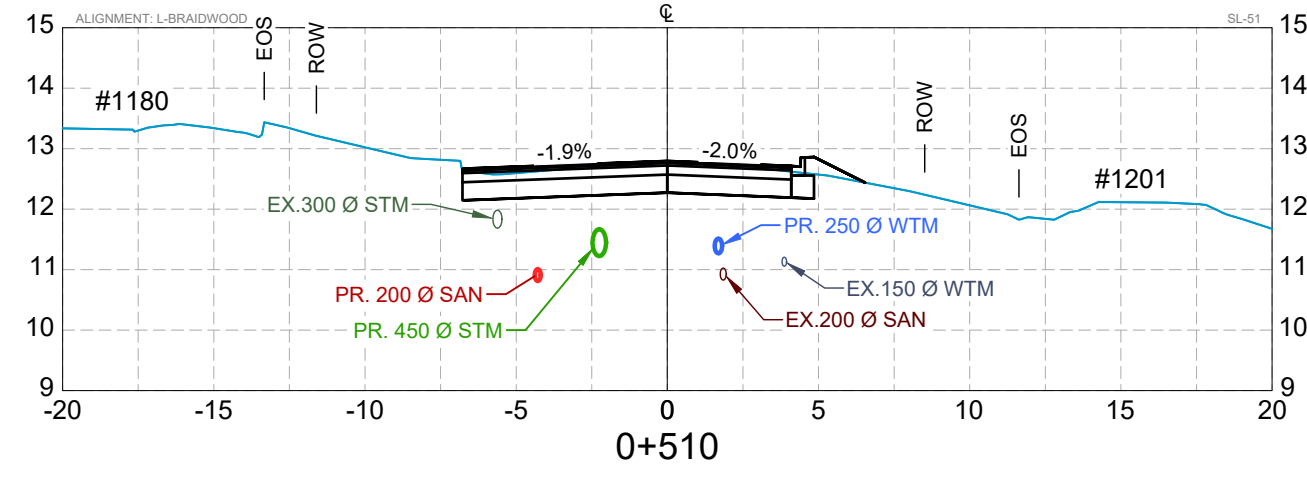
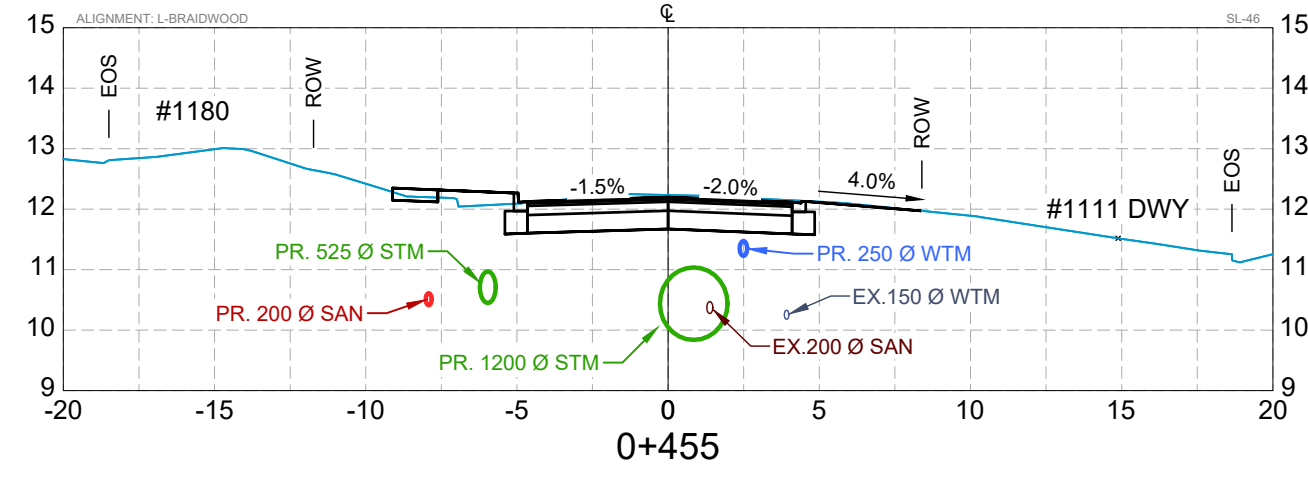
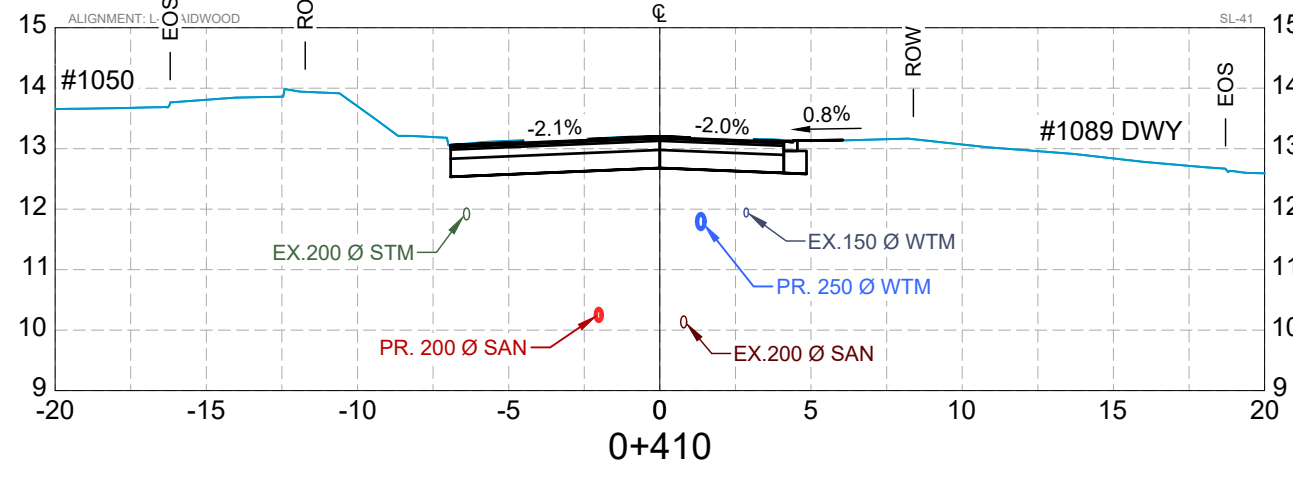
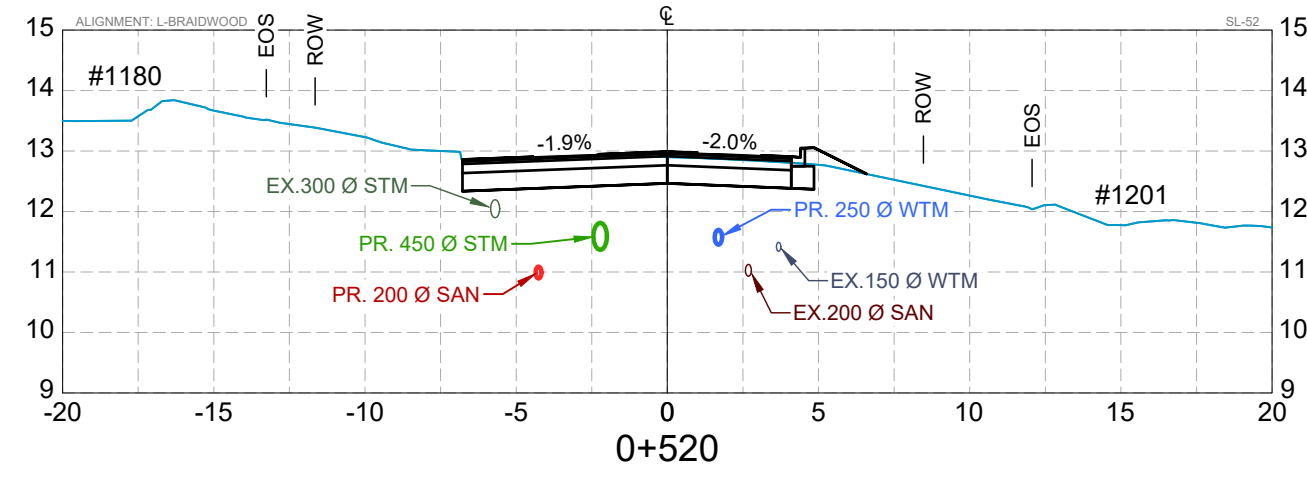
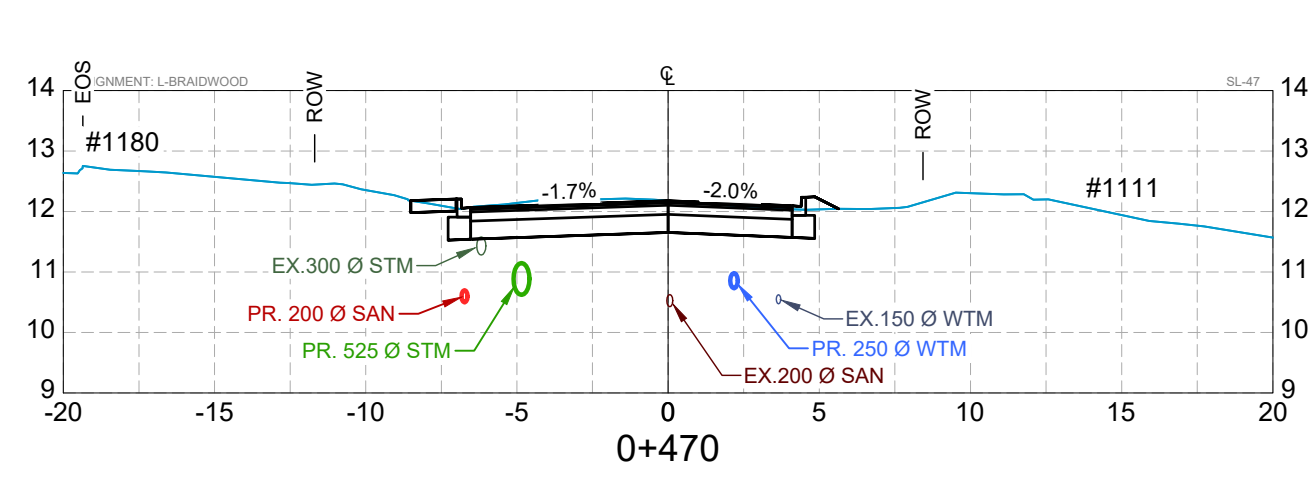
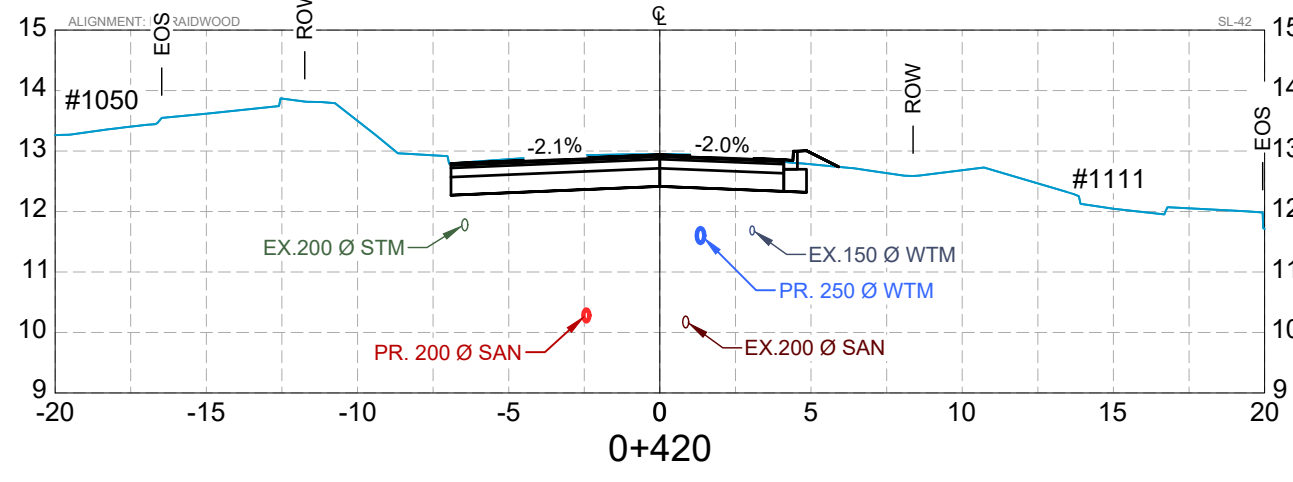
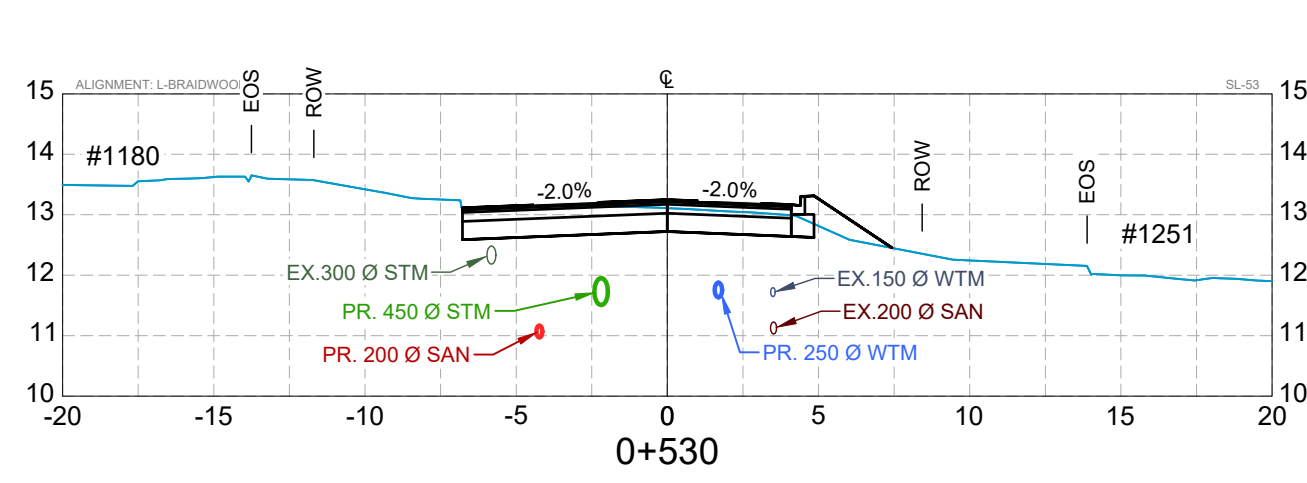
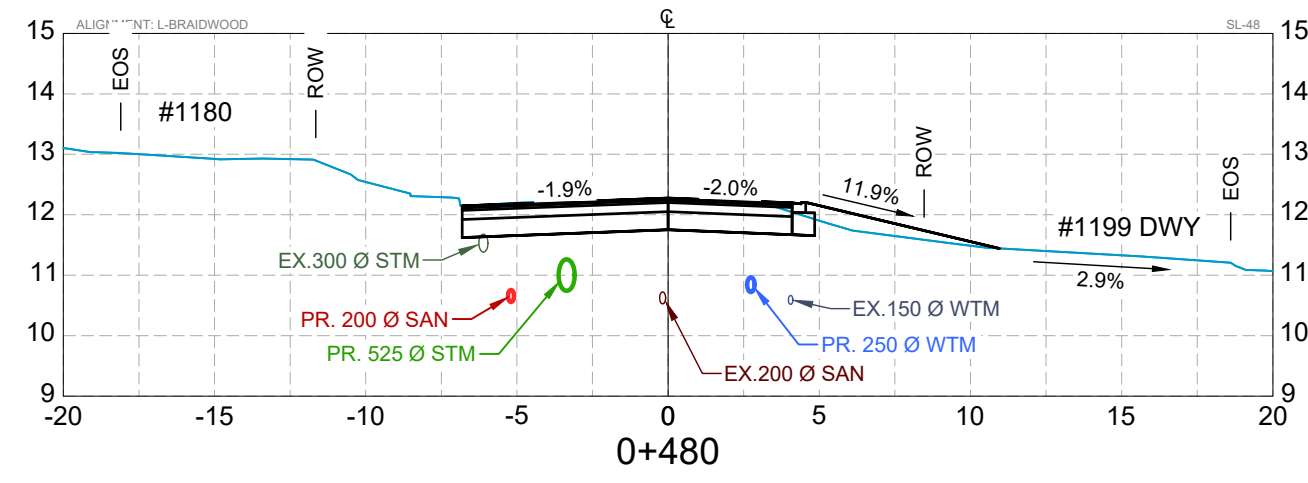
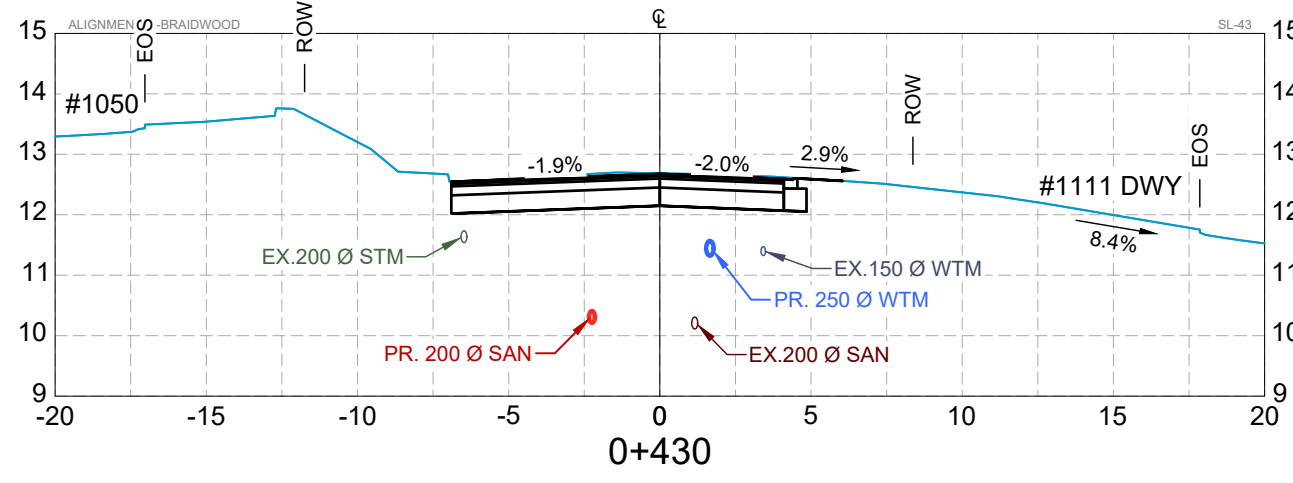
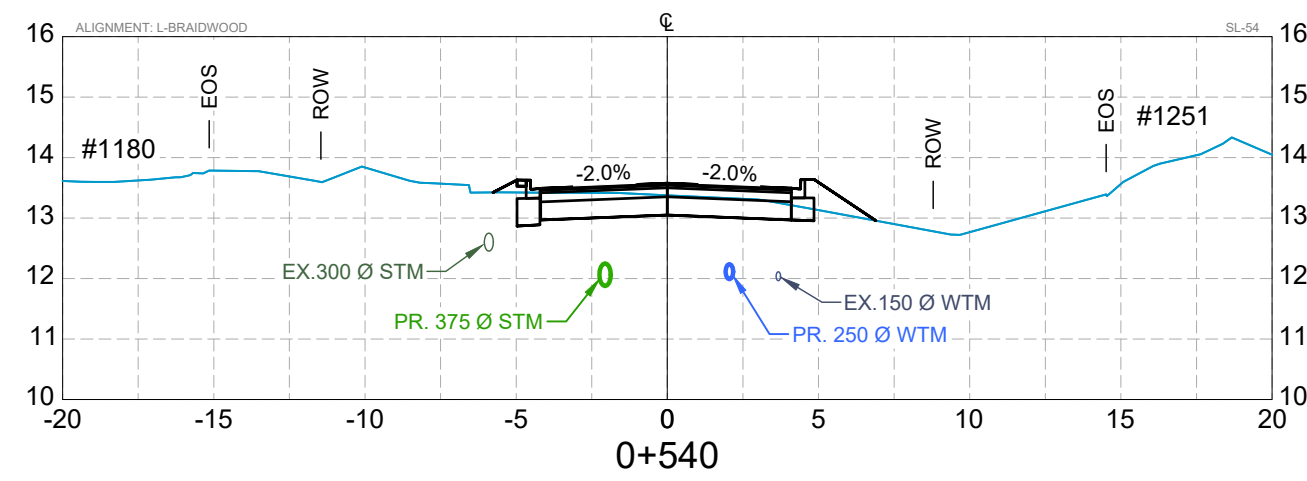
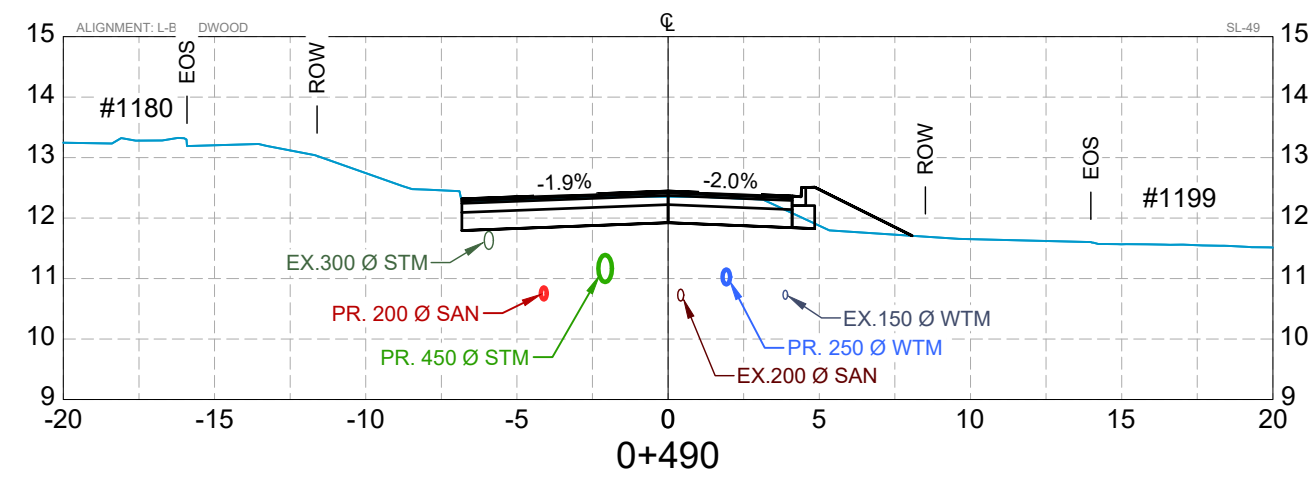
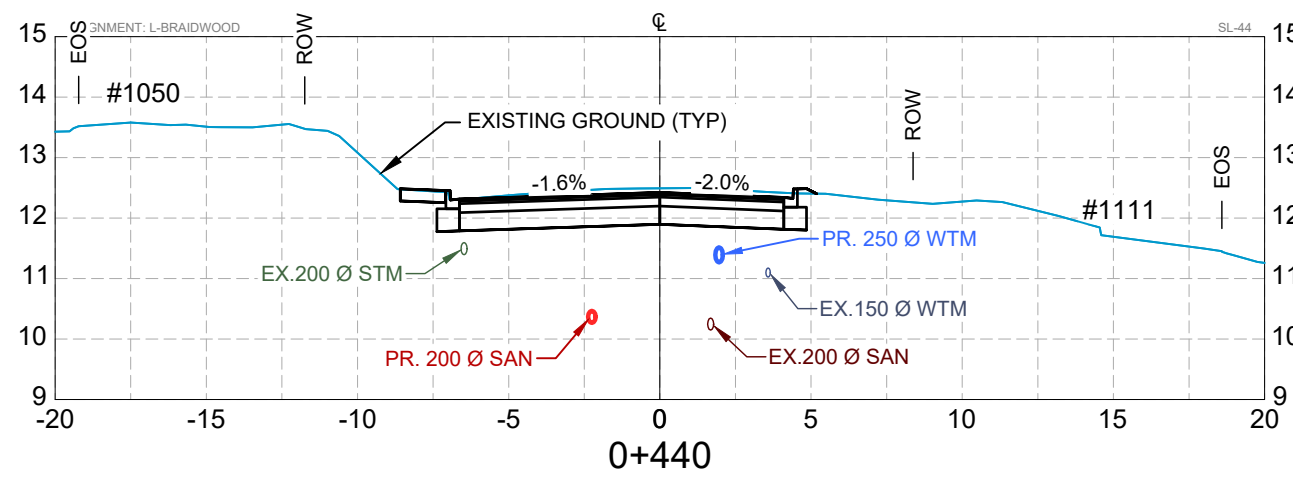
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CIVIL
CROSS SECTIONS
STA: 0+200 TO 0+395

DRAWING	REVISION	SHEET
2264-00-C-302	D	15 / 22

LEGEND:
ROW = RIGHT OF V
EOS = EDGE OF TC
DWY = DRIVEWAY



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2022-05-24

CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

SCALE: 1:250 (H), 1:125 (V)

CIVIL
CROSS SECTIONS
STA: 0+400 TO 0+560

DRAWING	REVISION	SHEET
2264-00-C-303	D	16 / 22

IF NOT 50 mm ADJUST SCALES
50 mm

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2022-05-24

C	2022MAY16	M.DHILLON	G.GALDERLIESTEN	REVISED 100% DESIGN
B	2022MAR03	M.DHILLON	G.GALDERLIESTEN	100% DESIGN
A	2021DEC23	M.DHILLON	G.GALDERLIESTEN	90% DESIGN
REV	DATE	DESIGN	DRAWN	DESCRIPTION

CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

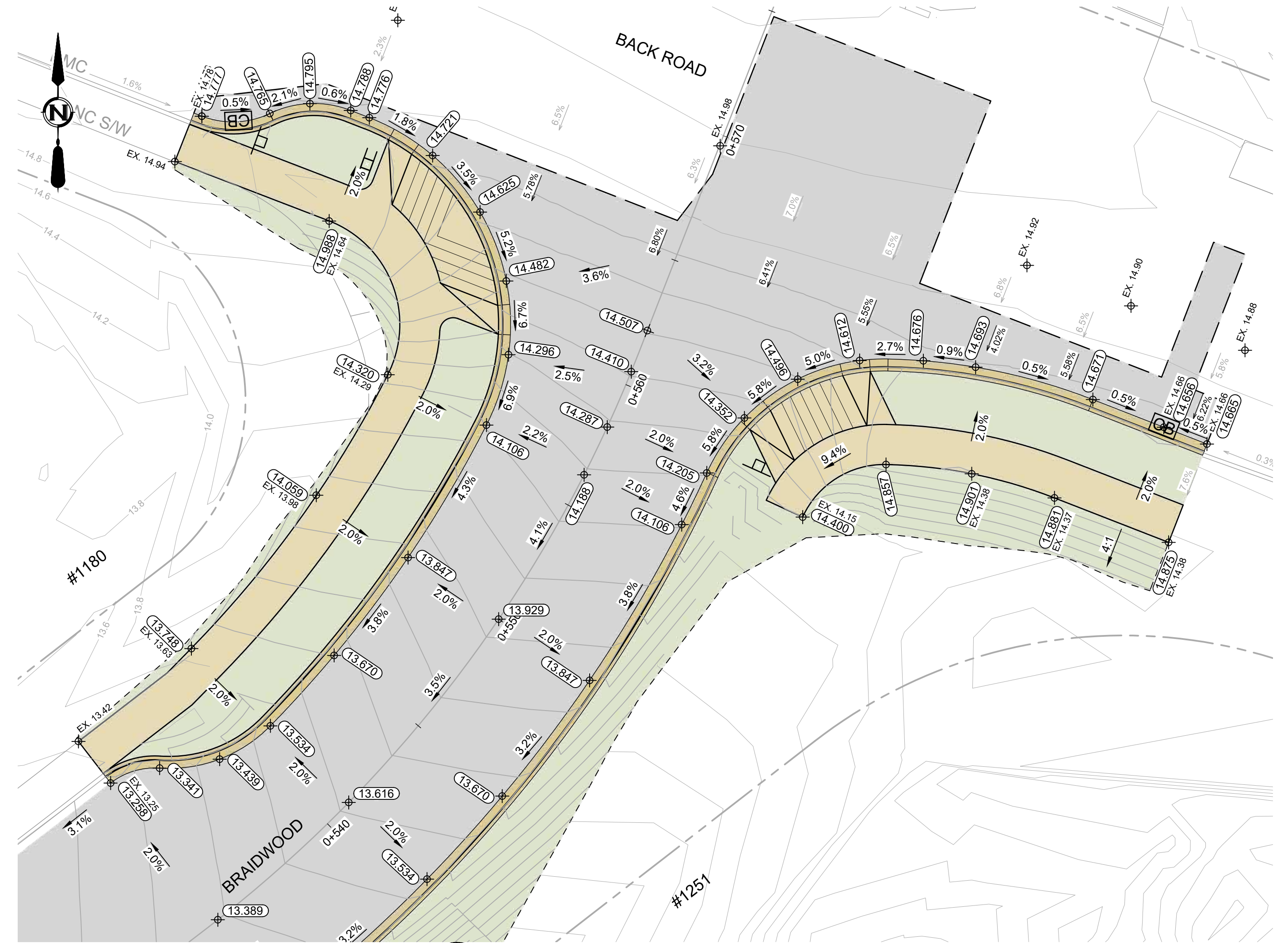
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CIVIL
GRADING PLAN
STA: 0+000 TO 0+340

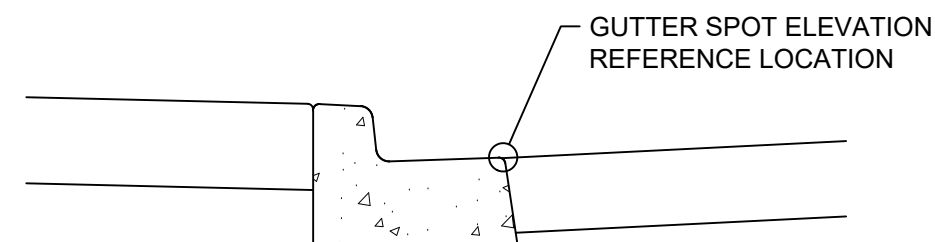
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2264-00-C-401	C	17 / 22



1 PLAN
#1050/#1180 BRAIDWOOD RD FRONTAGE REGRAIDING
1:125



2 PLAN
INTERSECTION GRADING PLAN BACK ROAD AT BRAIDWOOD ROAD
1:125



3 DETAIL
ELEVATION REFERENCE LOCATION
NTS



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Engineers & Geoscientists BC



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REV	DATE	DESIGN	DRAWN	DESCRIPTION

CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

SCALE: 1:125

CIVIL
GRADING PLAN
STA: 0+430 TO 0+600

DRAWING	REVISION	SHEET
2264-00-C-402	C	18 / 22

GENERAL NOTES:

- ALL CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH THE CITY OF COURTENAY STANDARDS AND SPECIFICATIONS AND THE LATEST EDITION OF MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) STANDARD SPECIFICATIONS & DRAWINGS, APPROPRIATE AMENDMENTS AND RESOLUTIONS.
- CONTRACTOR TO OBTAIN ALL APPLICABLE PERMITS TO UNDERTAKE THE REQUIRED WORKS FROM ALL APPLICABLE AUTHORITIES.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE WORKS WITH CITY OF COURTENAY, COMOX VALLEY REGIONAL DISTRICT, TELUS, SHAW, BC HYDRO, FORTISBC.
- ELEVATIONS ARE GEODETIC.
- ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE FOR UTILITY POLE SUPPORT REQUIRED IN ORDER TO CONSTRUCT THE WORKS.
- OVERHEAD WIRING NOT SHOWN ON DRAWINGS.
- LEGAL BASE COMPOSITE PROVIDED BY HOERBURGER LAND SURVEYORS.
- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT SURVEY.
- ALL MATERIALS SHALL CONFORM TO THE CITY OF COURTENAY APPROVED PRODUCTS LIST.
- ANY REVISIONS TO THESE DRAWINGS MUST BE APPROVED BY THE DESIGN ENGINEER, WHO SHALL REVIEW ANY CHANGES WITH CITY OF COURTENAY ENGINEERING.
- WORKSAFE BC IS TO BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION AND CONTRACTOR SHALL BE REGISTERED WITH WORKSAFE BC.
- CONTRACTOR TO SUBMIT A BC ONE TICKET AT LEAST 72 HOURS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO COORDINATE WITH MtI PRIOR TO CONSTRUCTION OF ANY WORKS WITHIN ISLAND HIGHWAY ROW.

ROADWORKS:

- SUBGRADE TO BE INSPECTED AND APPROVED BY PROJECT GEOTECHNICAL ENGINEER PRIOR TO SUBBASE OR BASE COURSE CONSTRUCTION.
- CONTRACTOR TO MAINTAIN DRAINAGE DURING CONSTRUCTION.
- CURBS ARE TO BE CONCRETE BARRIER CURB AND GUTTER AS PER MMCD STD. DWG. C4 UNLESS NOTED OTHERWISE. DRIVEWAYS AND CROSSWALK DROPS TO USE CONCRETE DROP CURB.
- CROSSWALK DROPS TO CONFORM TO CITY OF COURTENAY CSSD C8a WHERE APPLICABLE.
- SIDEWALK THICKNESS TO BE 100mm EXCEPT 150mm THROUGH ALL DRIVEWAYS.
- DRIVEWAY CONSTRUCTION AS PER CITY OF COURTENAY CSSD C7C.
- DRIVEWAYS TO BE REPLACED WITH CONCRETE BACK TO PROPERTY LINES UNLESS NOTED OTHERWISE.
- FOR DETAILS OF GEOTECHNICAL CONDITIONS AND REQUIREMENTS REFER TO GEOTECHNICAL REPORT TITLED "PROPOSED ROAD AND UTILITY UPGRADES, BRAIDWOOD ROAD, COURTENAY, BC" DATED OCTOBER 27, 2018 BY LEWDOWICH ENGINEERING ASSOCIATES LTD.
- ALL LOOSE, ORGANIC, OTHERWISE DELETERIOUS MATERIALS OR SOFT SPOT(S) ARE TO BE EXCAVATED AND REMOVED FROM THE ROADWAY AND UTILITY TRENCHES IN THE ROADWAY.
- ALL EXISTING ASPHALT TO BE REMOVED MUST BE DISPOSED OF AT AN APPROVED SITE.
- THE CONDITIONS FOR PLACING ASPHALT PAVEMENT AND P.C. CONCRETE SHALL BE IN ACCORDANCE WITH CITY OF COURTENAY STANDARD CONSTRUCTION DOCUMENTS AND MMCD SPECIFICATIONS AND STANDARD DETAIL DRAWINGS APPLICABLE AT THE TIME OF CONSTRUCTION. WEATHER CONDITIONS MUST ALSO BE IN CONFORMANCE WITH MMCD SPECIFICATIONS. SHOULD DEVIANCES BE ALLOWED FROM THESE SPECIFICATIONS, THE CONTRACTOR IS TO ASSUME ALL RESPONSIBILITY FOR THESE PRODUCTS.
- CROSSWALK AND STOP BAR PAINT MARKINGS TO BE THERMOPLASTIC, ALL OTHERS TO BE ALKYD PAINT.
- ALL PAVEMENT MARKINGS AND SIGNAGE TO BE TO TRANSPORTATION ASSOCIATION OF CANADA (TAC) MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES STANDARDS.

RESTORATION:

- ALL DAMAGED OR DISTURBED MONUMENTS AND IRON PINS ARE TO BE RECALIBRATED OR REPLACED AND TIED-IN BY A B.C.I.S. AT THE CONTRACTOR'S EXPENSE.
- ALL DISTURBED BOULEVARD AREAS AND DRIVEWAYS ARE TO BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER AFTER CONSTRUCTION. NOTE SOME EXISTING BOULEVARDS ARE IN POOR CONDITION.
- ALL LAWN AND GRASS AREAS AFFECTED BY CONSTRUCTION TO BE REPLACED WITH SOD GRASS ON MINIMUM 150mm OF TOPSOIL.
- RESTRIPPE ALL DISTURBED TRAFFIC MARKINGS OUTSIDE THE AREA OF ROAD RECONSTRUCTION AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- ADJUST ALL EXISTING CASTINGS TO NEW GRADE INCLUDING THOSE WITHIN LANDSCAPED AREAS.
- WHERE TYING TO EXISTING CONCRETE CURB OR SIDEWALK, REMOVE AND REPLACE EXISTING CURB OR SIDEWALK TO THE NEAREST EXPANSION JOINT.
- NO ASPHALT RESTORATIONS ARE TO LEAVE A JOINT BETWEEN NEW AND OLD ASPHALT THAT FALLS WITHIN THE TRAVELED WHEEL PATH OF ANY ROADWAYS. MINIMUM DIMENSION OF REMAINING ASPHALT SECTIONS IS TO BE 1.0 m. IF ASPHALT REMOVAL WILL LEAVE A REMAINDER WITH A MINIMUM DIMENSION OF LESS THAN 1.0 m (I.E. BETWEEN TRENCHLINE AND CURB, OR TRENCHLINE AND EDGE OF ASPHALT), THIS REMAINING ASPHALT MUST BE REMOVED AND REINSTATED WITH NEW ASPHALT.
- ALL EXISTING TREES WITHIN THE R.O.W. TO REMAIN UNLESS OTHERWISE NOTED.

PUBLIC SAFETY:

- THE CONTRACTOR IS TO SUBMIT FOR APPROVAL & BE RESPONSIBLE FOR A TRAFFIC MANAGEMENT PLAN INCLUDING: RUSH HOUR PROCEDURES, NUMBER OF LANES OPEN AT ANY TIME, AND DETOURS. PROFESSIONAL TRAFFIC CONTROL SYSTEMS TO BE PROVIDED FOR ALL ROAD & LANE CLOSURES. LOCAL VEHICLE, PEDESTRIAN & EMERGENCY VEHICLE ACCESS IS TO BE MAINTAINED AT ALL TIMES. TRAFFIC MANAGEMENT PLAN IS TO BE SUBMITTED TO CITY OF COURTENAY PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL KEEP THE SITE NEAT AND TIDY AND AT ALL TIMES PROTECT PUBLIC SAFETY.
- THE CONTRACTOR SHALL ORGANIZE HIS WORKS TO MINIMIZE INCONVENIENCE TO THE PUBLIC AND INDIVIDUAL PROPERTY OWNERS.
- VEHICULAR AND PEDESTRIAN ACCESS IS TO BE MAINTAINED ALONG EXISTING ROADS DURING CONSTRUCTION.
- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE ACCESS TO DRIVEWAYS TO MINIMIZE DISRUPTION TO LOCAL RESIDENTS.
- RESIDENTS AND BUSINESSES AFFECTED BY THE PROPOSED CONSTRUCTION ARE TO BE NOTIFIED BY THE CONTRACTOR IN WRITING A MINIMUM OF 4 DAYS PRIOR TO THE START OF CONSTRUCTION AND PROVIDED WITH THE CONTRACTORS PHONE NUMBER AND SCHEDULE.
- CONSTRUCTION STAGING AREAS & MATERIAL STOCK PILES TO BE LOCATED ON MUNICIPAL R.O.W. ONLY & CANNOT BLOCK ANY DRIVEWAYS. LOCATIONS TO BE APPROVED BY CONTRACT ADMINISTRATOR.

UTILITIES (GENERAL)

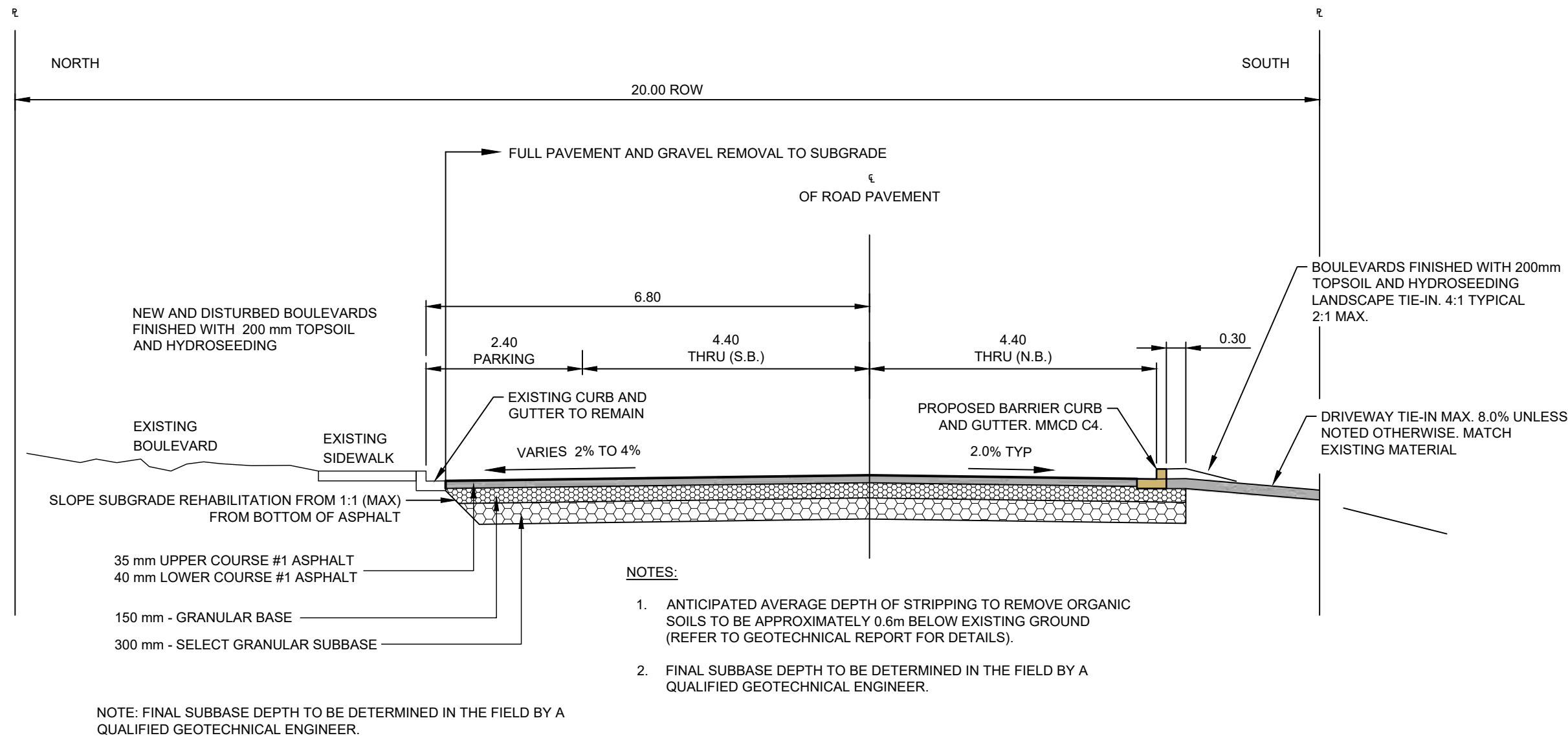
- EXISTING UTILITIES, INCLUDING SERVICE LOCATIONS, SHOWN ON THESE DRAWINGS HAVE BEEN PROVIDED BY UTILITY COMPANY ASBUILTS. THE INFORMATION PROVIDED IS NOT GUARANTEED ACCURATE OR COMPLETE. ALL EXISTING UTILITIES AND CONNECTIONS MAY NOT BE SHOWN ON DRAWINGS.
- CONTACT BC-1 (1-800-474-6886) AND COORDINATE WITH LOCAL MUNICIPAL PLANNING AND ENGINEERING SERVICES AND ALL OTHER AGENCIES FOR UNDERGROUND UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO EXPOSE ALL CONNECTIONS AND CROSSINGS OF EXISTING SYSTEMS TO CONFIRM LOCATION, ELEVATION, AND SIZE PRIOR TO CONSTRUCTION. THE LOCATION OF ALL UTILITIES SHOWN ARE APPROXIMATE. ALL EXISTING CONNECTIONS MAY NOT BE SHOWN ON DRAWINGS.
- ALL EXISTING SERVICES TO BE REPLACED IN THEIR EXISTING ALIGNMENTS UNLESS NOTED OTHERWISE INCLUDING ANY SERVICES WHICH MAY NOT BE SHOWN ON THE DRAWINGS.
- THE PROJECT AREA IS PARTIALLY SERVICED BY NATURAL GAS LINES. CONTRACTOR TO USE ANY AND ALL METHODS NECESSARY TO ENSURE THAT NATURAL GAS LINES ARE LOCATED AND PROTECTED FROM BREAKAGE.
- ALL PIPE BEDDING IS TO BE CLASS 'B'. WHERE THE TRENCH IS UNDER OR WITHIN 1.0 m OF A VEHICLE TRAFFIC AREA OR SIDEWALK.
- SELECT EXISTING MAINS TO BE ABANDONED BY COMPLETELY FILLING WITH CONTROLLED DENSITY FILL (CDF). CAP ALL ENDS OF ABANDONED MAINS PRIOR TO FILLING. CDF SHALL HAVE MAXIMUM COMPRESSIVE STRENGTH OF 0.5 MPA AT 28 DAYS AND MAXIMUM CEMENT CONTENT OF 25KG/M3. CDF SHALL HAVE A SLUMP/CONSISTENCY SUITABLE TO ALLOW COMPLETE FILLING OF ABANDONED MAINS WITHOUT VOIDS. ALTERNATE METHODS OF FILLING ABANDONED MAINS MAY BE CONSIDERED.
- CONTRACTOR TO COORDINATE RELOCATION OF UTILITY POLES AND GUY WIRES WITH BC HYDRO.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS OF ALL MANHOLES FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

STORM AND SANITARY:

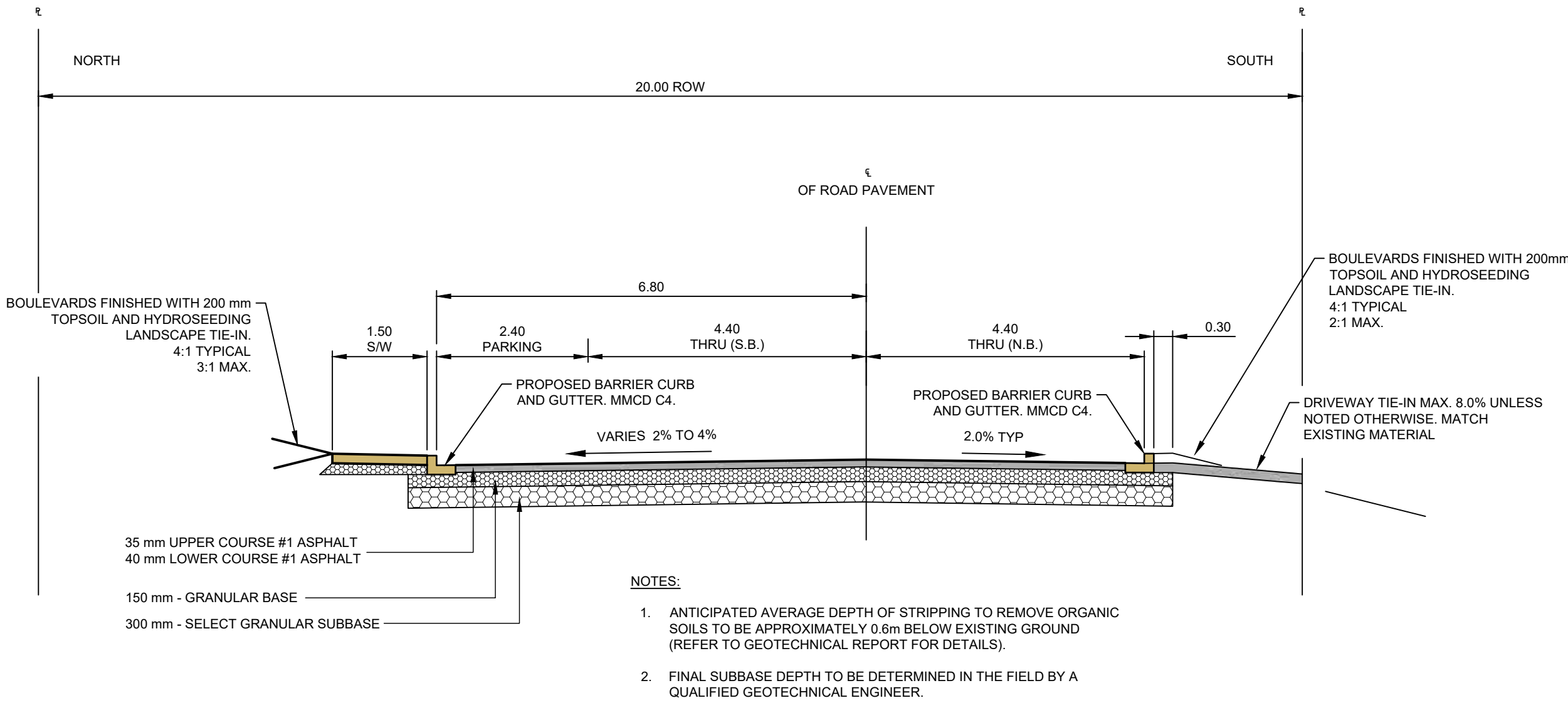
- SANITARY SERVICE CONNECTIONS TO MATCH EXISTING SIZE (OR MINIMUM 100 mm) UNLESS NOTED OTHERWISE AND CONFORM TO CSSD-S7.
- STORM SERVICE CONNECTIONS TO MATCH EXISTING SIZE (OR MINIMUM 150 mm) UNLESS NOTED OTHERWISE AND CONFORM TO CSSD-S8.
- ALL SANITARY AND STORM SERVICES TO INCLUDE INSPECTION CHAMBERS AS PER CSSD S9.
- ALL SERVICES ARE TO MATCH THE EXISTING SERVICE INVERT AT THE PROPERTY LINE UNLESS NOTED OTHERWISE.
- CATCHBASINS TO CONFORM TO CSSD S11.
- CATCHBASIN LEADS TO BE MINIMUM 200 mm DIAMETER AND HAVE A MINIMUM 2.0% SLOPE.
- CATCHBASIN GRADE TO BE RECESSED 20 mm BELOW GUTTER INVERT ELEVATION. SURROUNDING CONCRETE AND ASPHALT TO BE SLOPED TO SUIT.
- CATCH BASIN ELEVATIONS GIVEN ARE THE ELEVATION OF THE EDGE OF ASPHALT OR LIP OF GUTTER AT THE CATCHBASIN LOCATION.
- DOUBLE CATCHBASINS AS PER DETAIL 5 / C-502.

WATERWORKS:

- ALL WATER MAIN PIPING MATERIAL TO BE PVC C900 DR18 UNLESS NOTED OTHERWISE.
- WATER SERVICE CONNECTIONS TO MATCH EXISTING SIZE (OR MINIMUM 25 mm) UNLESS NOTED OTHERWISE AND CONFORM TO CSSD-W2A, CSSD-W2C, AND CSSD-W2D.
- ALL WATER SERVICES TO INCLUDE METERS AS PER DETAILS DWG C-502.
- CONTRACTOR TO TEST, FLUSH AND DISINFECT NEW SYSTEMS AS PER REQUIREMENTS SET OUT IN MMCD SECTION 33 11 01. ALL TESTS MUST BE COMPLETED SUCCESSFULLY PRIOR TO TIE IN.
- FOR DISINFECTION OF CONNECTION PIPING, THE CONTRACTOR MAY SWAB A MAXIMUM LENGTH OF 6.0m OF PIPE. CONNECTION ASSEMBLIES THAT CONSIST OF PIPE WITH A TOTAL LENGTH IN EXCESS OF 6.0m THAT CAN NOT BE DISINFECTED AS PART OF THE MAIN INSTALLATION, MUST BE ASSEMBLED ABOVE GROUND AND DISINFECTED AS PER MMCD SECTION 33 11 01 PRIOR TO INSTALLATION.
- ALL HYDRANTS THAT ARE NON-FUNCTIONAL DURING WATER MAIN WORKS ARE TO BE CLEARLY IDENTIFIED IN ACCORDANCE WITH CITY REQUIREMENTS. FIRE DEPARTMENT TO BE NOTIFIED OF ANY PLANNED OR ACCIDENTAL INTERRUPTION OF WATER SUPPLY TO HYDRANT.
- WATER MAINS TO MAINTAIN 3.0m HORIZONTAL SEPARATION AND 450mm VERTICAL SEPARATION FROM SEWER AND DRAIN LINES. IF SEPARATION CANNOT BE MAINTAINED WRAP WATERMAIN JOINTS WITH PETROLATUM TAPE 3.0m EACH SIDE OF CROSSING.
- THE CONTRACTOR IS NOT TO OPERATE THE WATER SYSTEM (INCLUDING OPERATING ANY VALVES). ANY WATER SHUT DOWNS ARE TO BE COORDINATED WITH CITY OF COURTENAY PUBLIC WORKS.
- ALL JOINTS TO BE RESTRAINED AS PER THE JOINT RESTRAINT TABLE DWG C-502.
- THE CONTRACTOR SHALL NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES A MINIMUM OF 48 HOURS PRIOR TO ANY INTERRUPTIONS TO THE WATER SERVICE.
- CONNECTIONS TO LIVE AND EXISTING WATER SYSTEMS ARE TO BE MADE UNDER THE SUPERVISION OF THE CITY OF COURTENAY PERSONNEL.
- CONTRACTOR TO MAINTAIN POTABLE WATER SERVICE TO ALL RESIDENTS DURING CONSTRUCTION.



1 TYPICAL SECTION
BRAIDWOOD ROAD - STA 0+125 TO 0+535 1:75



2 TYPICAL SECTION
BRAIDWOOD ROAD - STA 0+075 TO 0+125 & 0+535 TO 0+570 1:75

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DATE: 2022-05-20, Gerrit Alderliesten



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ASSOCIATED ENGINEERING (B.C.) LTD.
PERMIT NUMBER: 1000163
Engineers & Geoscientists BC



2022-05-24

NOT FOR
CONSTRUCTION

CITY OF COURTENAY

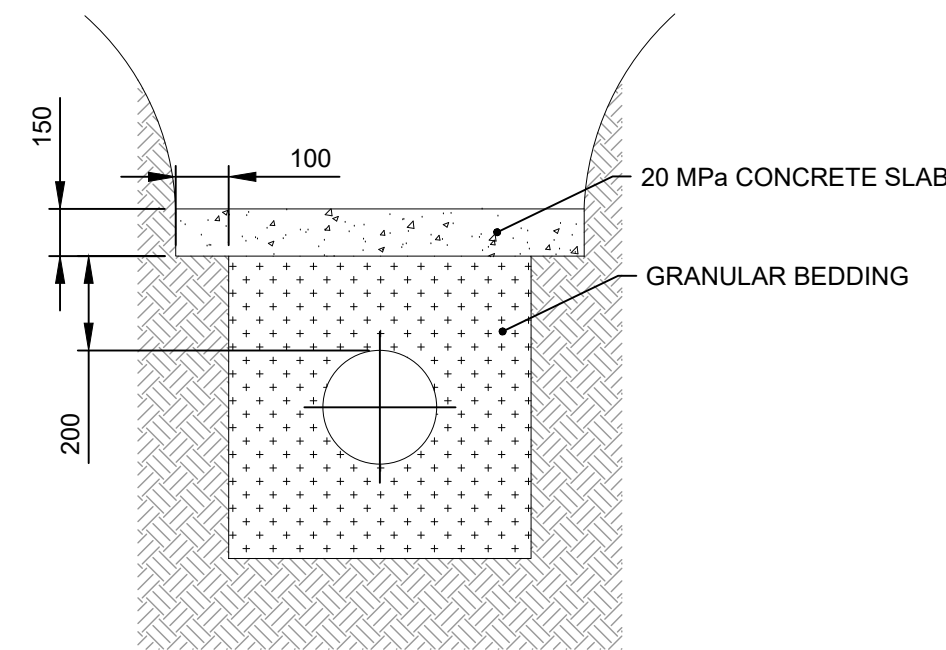
BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

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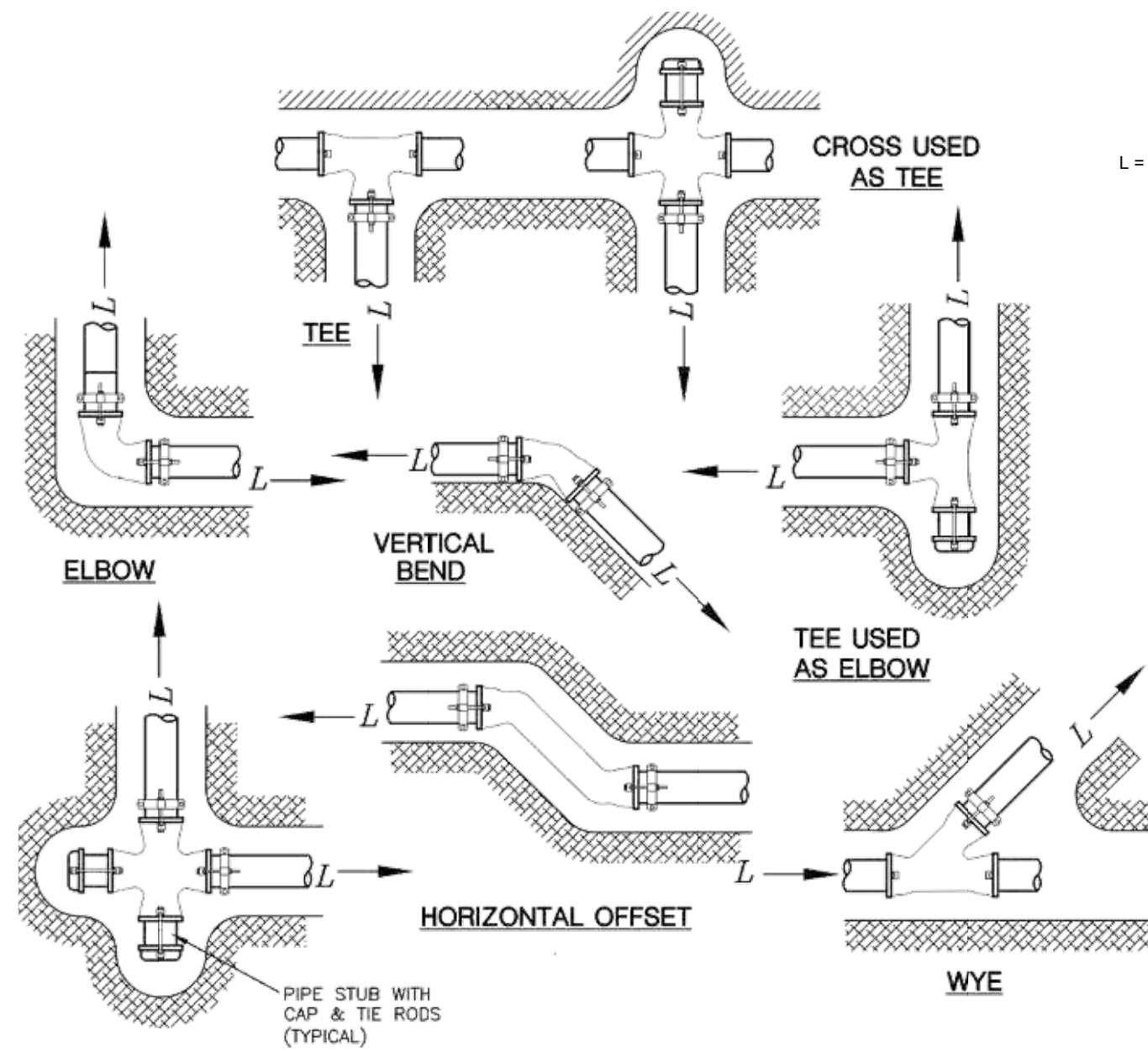
CIVIL
GENERAL NOTES AND DETAILS

DRAWING	REVISION	SHEET
2264-00-C-501	D	19 / 22



- NOTES:
- USE ONLY WHERE DIRECTED BY CONTRACT ADMINISTRATOR OR AS SPECIFIED ON CONTRACT DRAWINGS.

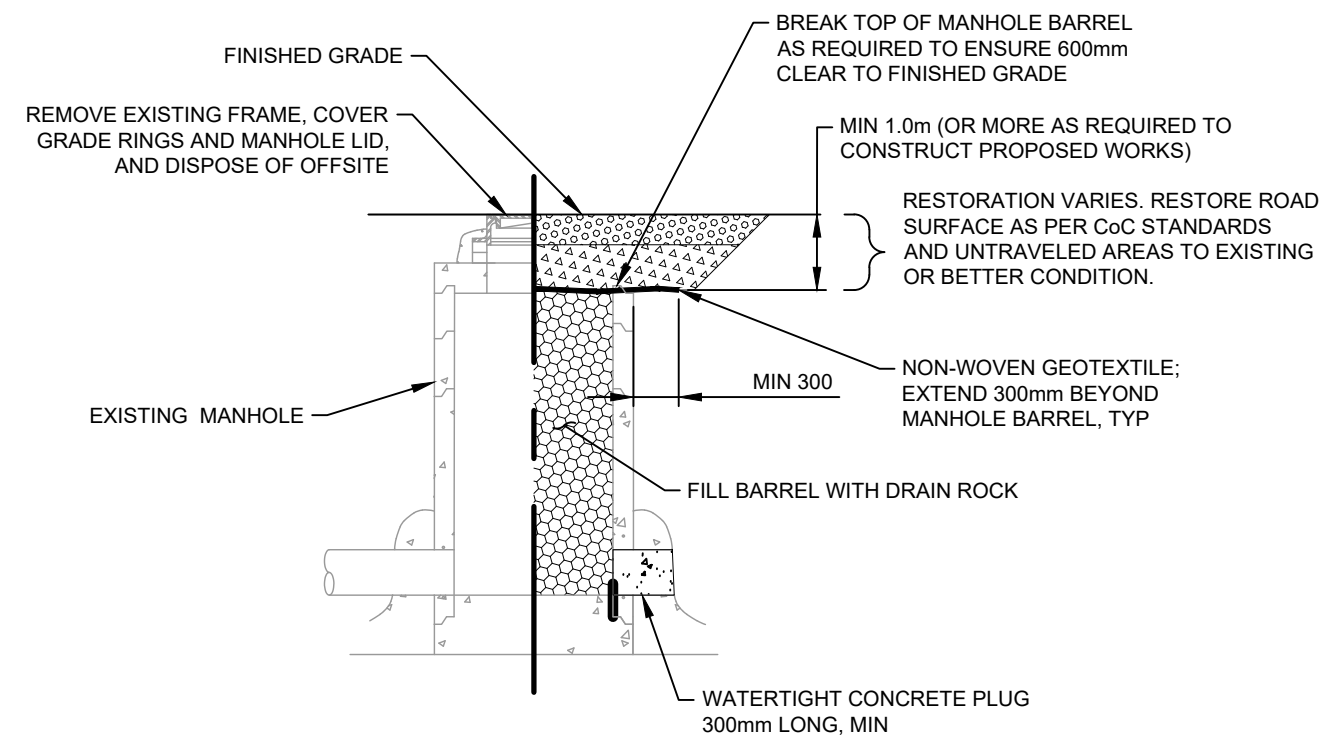
1 DETAIL NTS
CONCRETE PROTECTION FOR UNDERGROUND UTILITIES



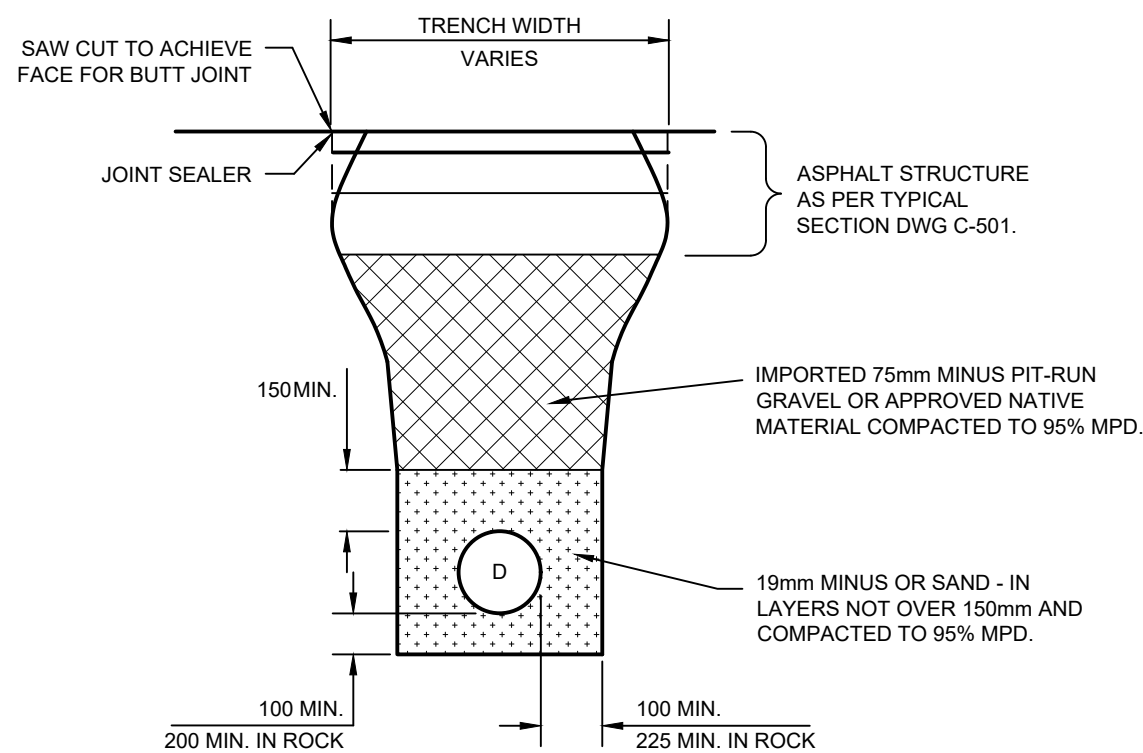
L = LENGTH OF RESTRAINED PIPE (in metres)

NOMINAL PIPE SIZE (mm)	ELBOWS				VALVE TEE END
	11"	22"	45"	90"	
100	0.3	0.9	1.8	4.6	12.5
150	0.6	1.2	2.7	6.4	18.9
200	0.9	1.8	3.7	8.5	24.7
250	0.9	2.1	4.3	10.4	29.6
300	1.2	2.4	4.9	12.2	34.7
450	ALL JOINTS RESTRAINED				

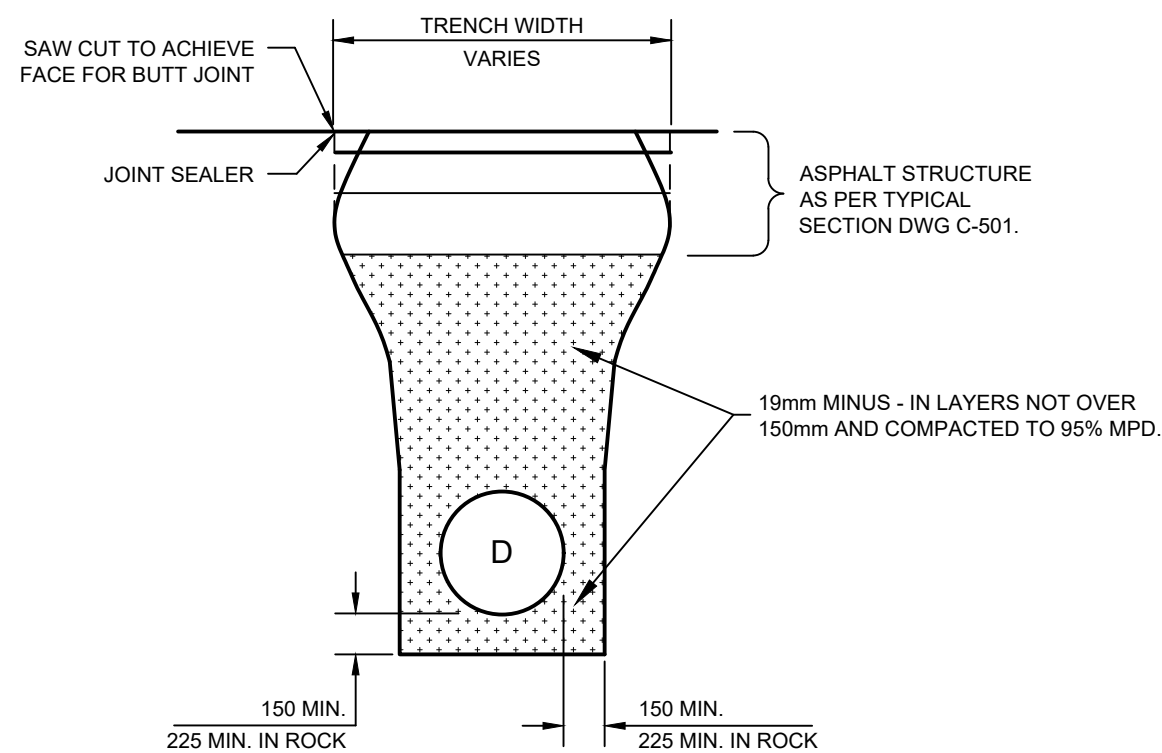
"L" DISTANCE SHALL BE CONFIRMED BY THE CONTRACT ADMINISTRATOR, BUT IN NO CASE WILL IT BE LESS THAN THE DISTANCES SHOWN ON THE TABLES



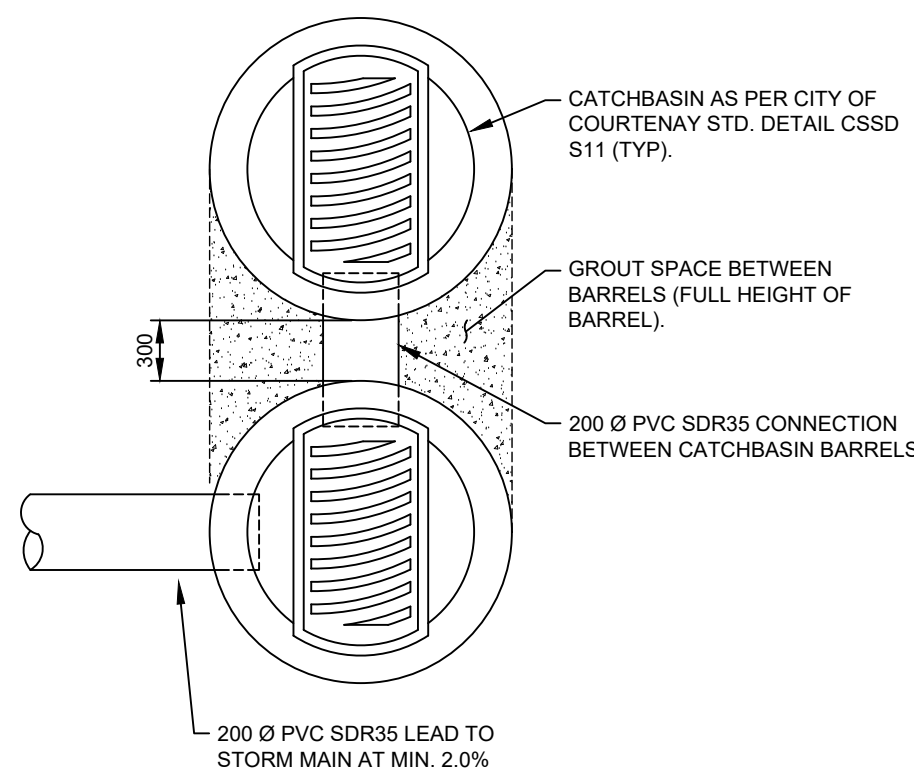
3 DETAIL NTS
EXISTING MANHOLE ABANDONMENT



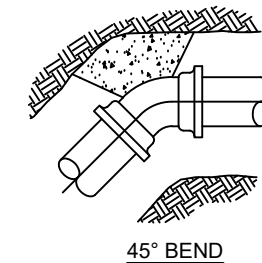
4A DETAIL NTS
TYPICAL TRENCH DETAIL
PIPES 675mm Ø OR LESS



4B DETAIL NTS
TYPICAL TRENCH DETAIL
PIPES 750mm Ø OR GREATER



5 DETAIL NTS
DOUBLE CATCHBASIN



MINIMUM THRUST AREAS			
TYPE OF FITTING	PIPE SIZE	AREA SQ. METERS	L x D AT FACE
45° BEND	150	0.3	1.0 x 0.3m
	200	0.4	1.0 x 0.4m
	250	0.6	1.0 x 0.6m
	300	0.9	1.5 x 0.6m

6 DETAIL NTS
THRUST BLOCK DETAIL



PERMIT TO PRACTICE
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2022-05-24

REV	DATE	DESIGN	DRAWN	DESCRIPTION
D	2022MAY16	M.DHILLON	G.ALDERLIESTEN	REVISED 100% DESIGN
C	2022MAR03	M.DHILLON	G.ALDERLIESTEN	100% DESIGN
B	2021DEC23	M.DHILLON	G.ALDERLIESTEN	90% DESIGN
A	2019FEB28	A.STEPHENSON	G.ALDERLIESTEN	70% DESIGN

CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

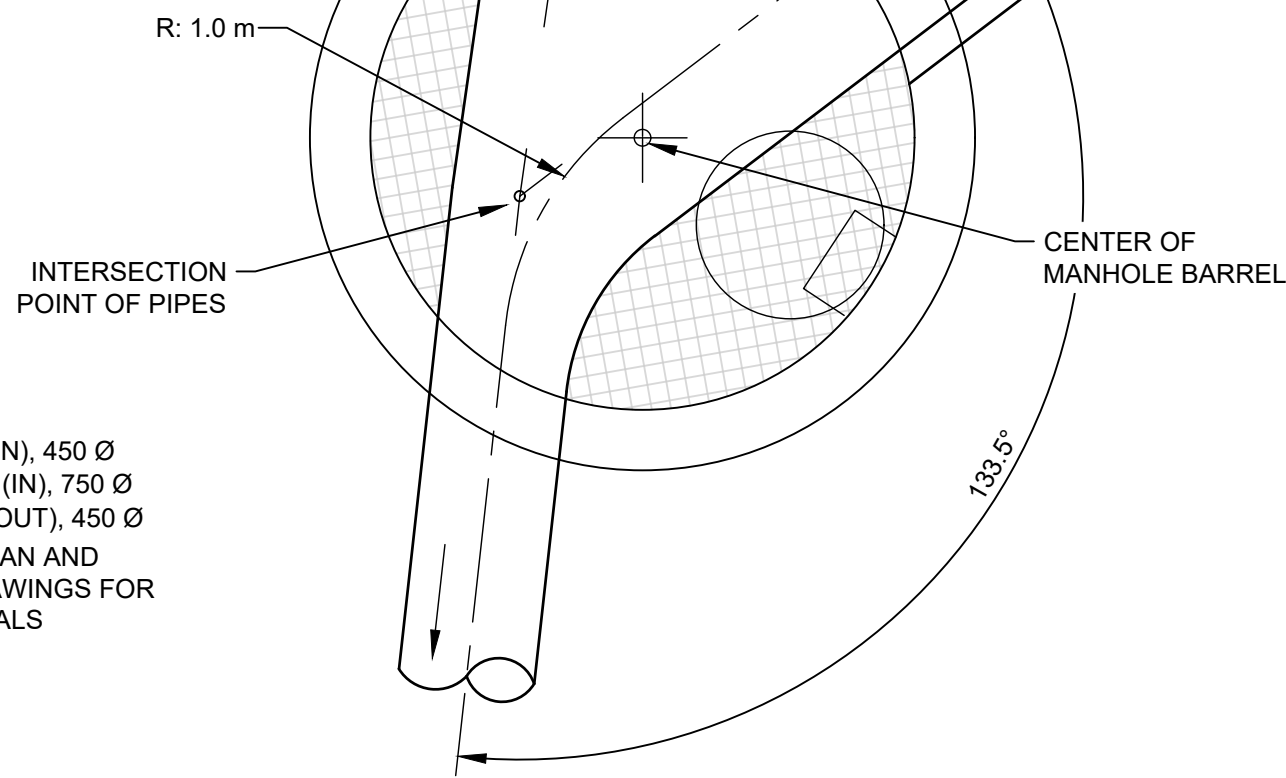
SCALE: AS SHOWN

CIVIL
TYPICAL DETAILS

DRAWING	REVISION	SHEET
2264-00-C-502	D	20 / 22



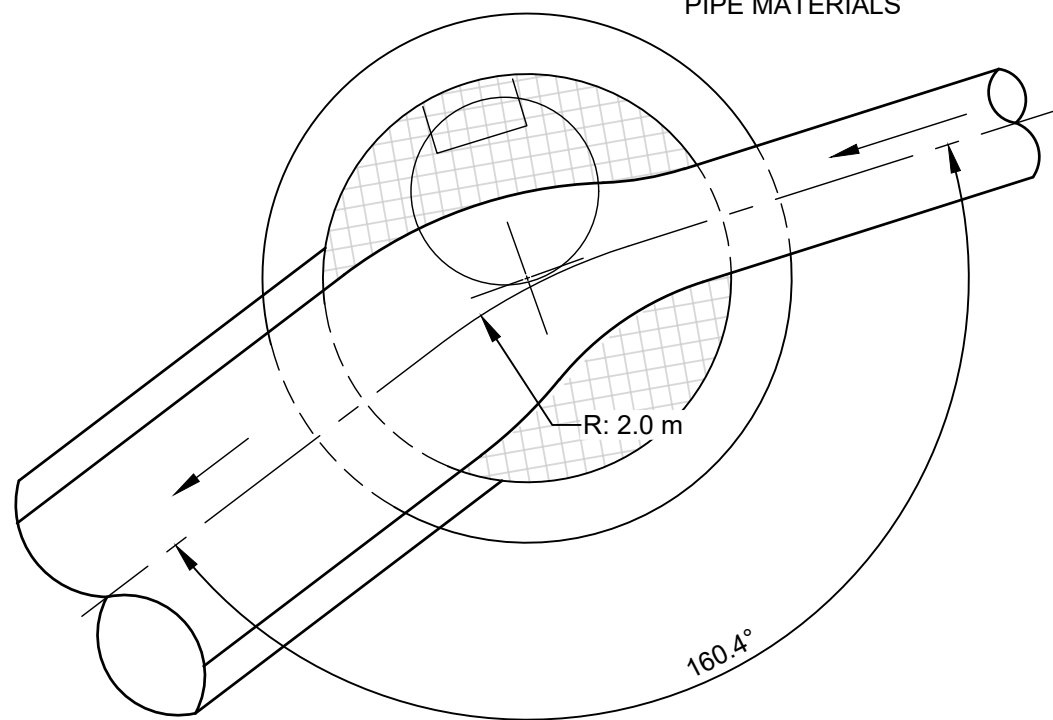
DMH 01
1800 Ø
N: INV 4.262 (IN), 450 Ø
NE: INV 4.274 (IN), 750 Ø
S: INV 4.244 (OUT), 450 Ø
REFER TO PLAN AND
PROFILE DRAWINGS FOR
PIPE MATERIALS



1 DETAIL 1:25
DMH 01 BENCHING



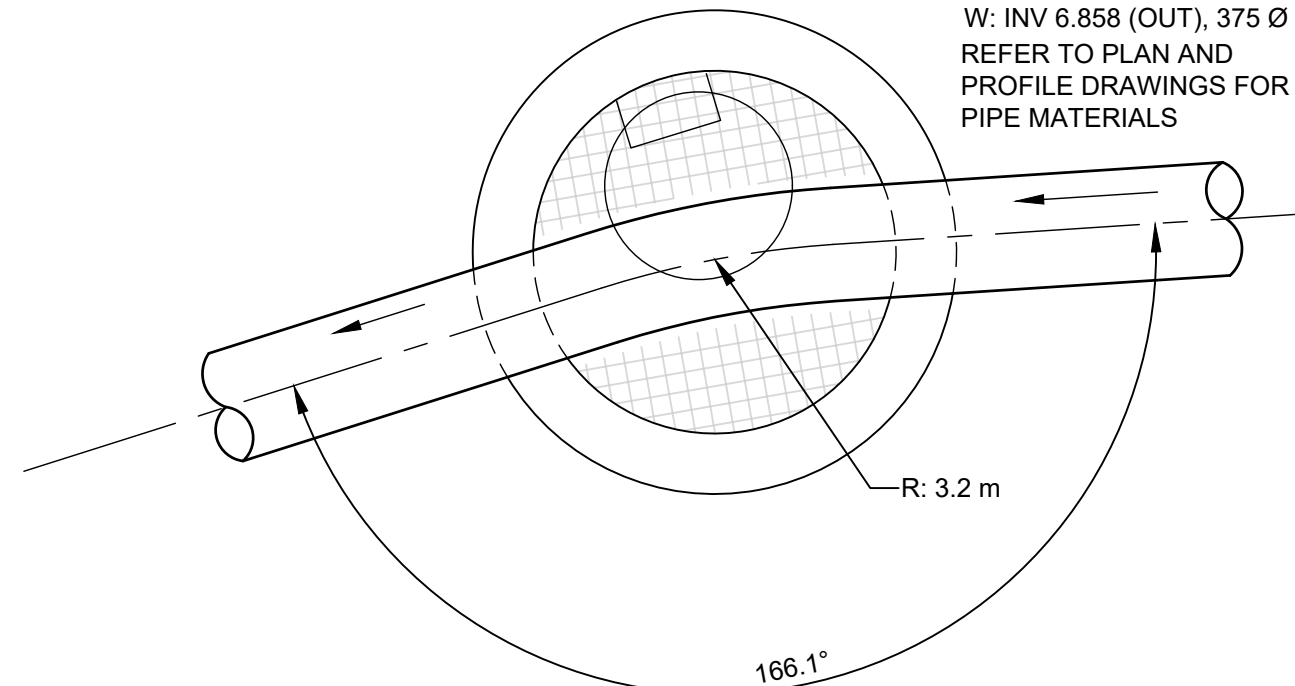
DMH 02
1350 Ø
E: INV 5.003 (IN), 375 Ø
SW: INV 4.628 (OUT), 750 Ø
REFER TO PLAN AND
PROFILE DRAWINGS FOR
PIPE MATERIALS



2 DETAIL 1:25
DMH 02 BENCHING



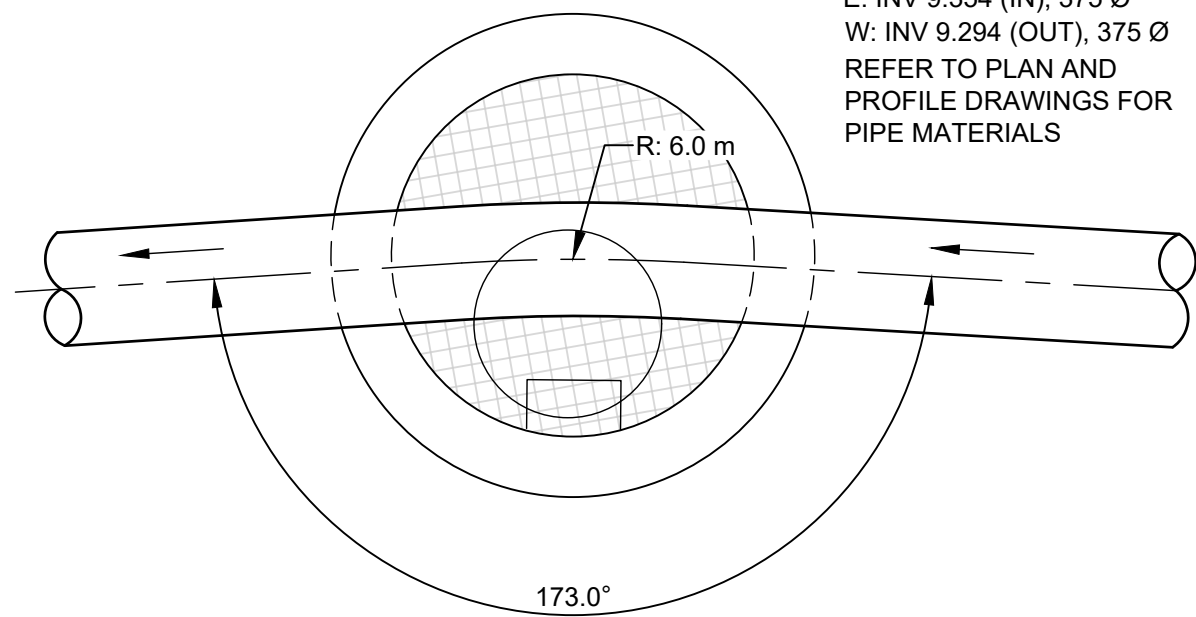
DMH 03
1200 Ø
E: INV 7.016 (IN), 375 Ø
W: INV 6.858 (OUT), 375 Ø
REFER TO PLAN AND
PROFILE DRAWINGS FOR
PIPE MATERIALS



3 DETAIL 1:25
DMH 03 BENCHING



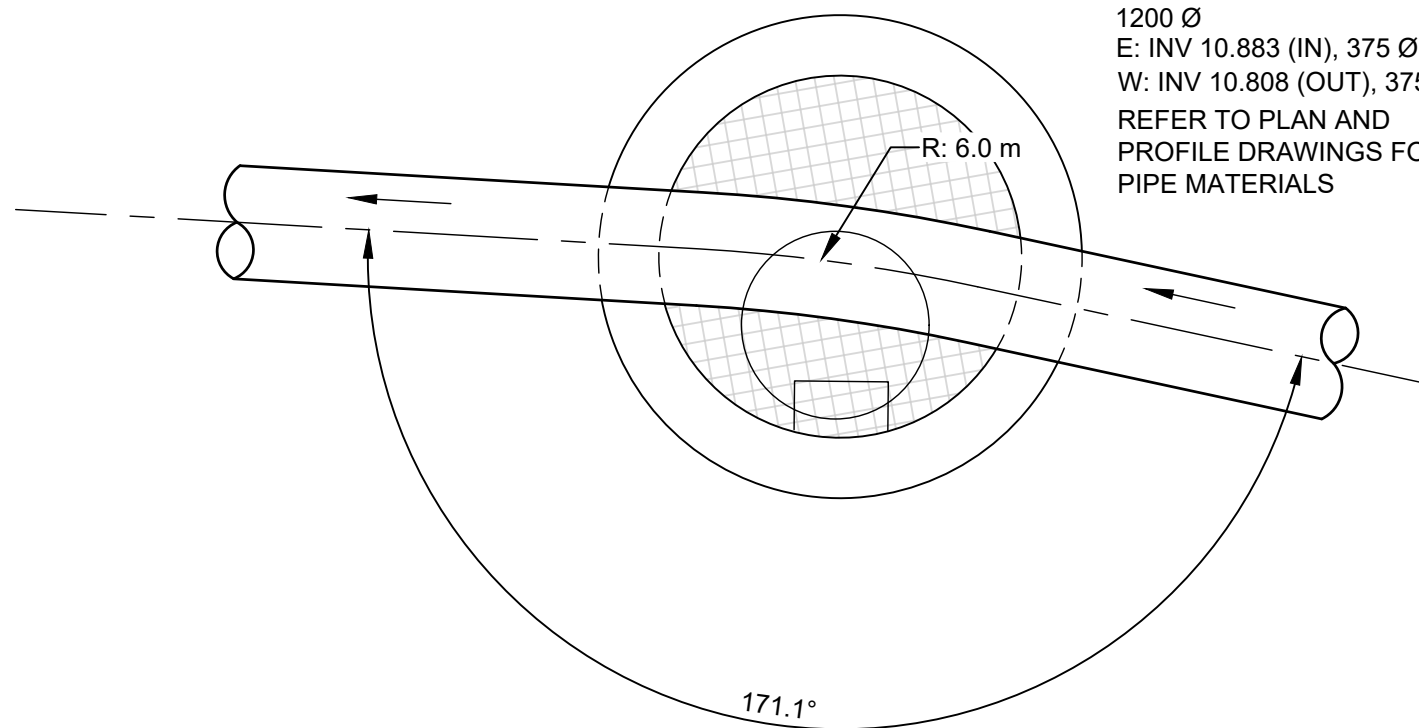
DMH 04
1200 Ø
E: INV 9.354 (IN), 375 Ø
W: INV 9.294 (OUT), 375 Ø
REFER TO PLAN AND
PROFILE DRAWINGS FOR
PIPE MATERIALS



4 DETAIL 1:25
DMH 04 BENCHING



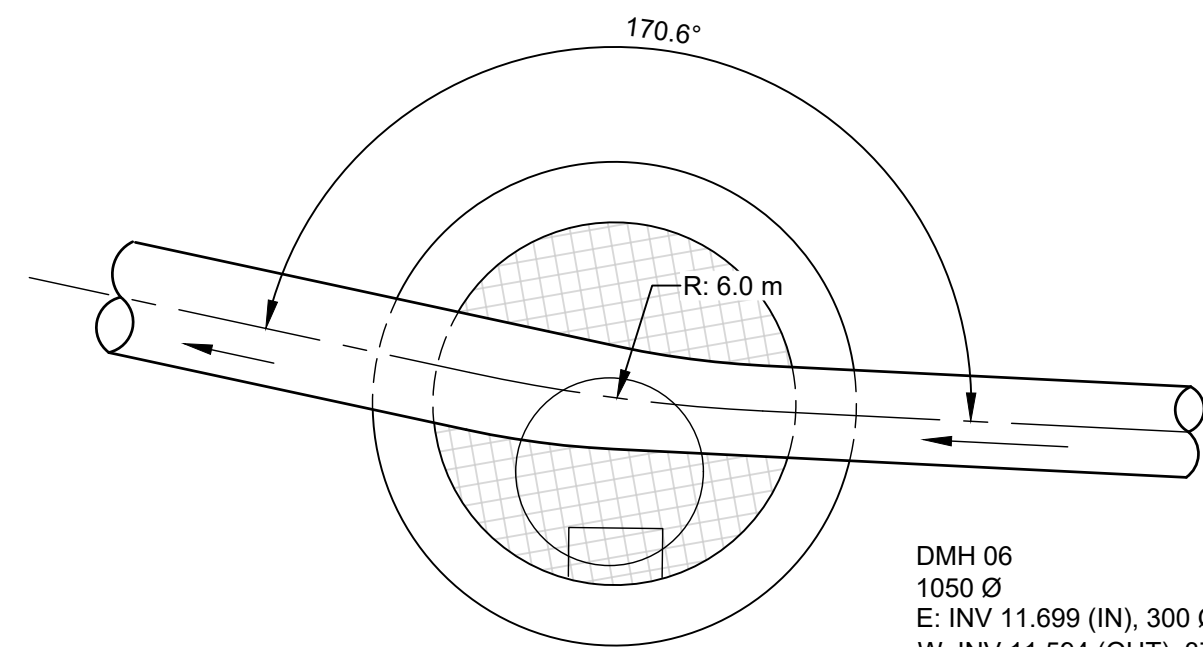
DMH 05
1200 Ø
E: INV 10.883 (IN), 375 Ø
W: INV 10.808 (OUT), 375 Ø
REFER TO PLAN AND
PROFILE DRAWINGS FOR
PIPE MATERIALS



5 DETAIL 1:25
DMH 05 BENCHING



DMH 06
1050 Ø
E: INV 11.699 (IN), 300 Ø
W: INV 11.594 (OUT), 375 Ø
REFER TO PLAN AND
PROFILE DRAWINGS FOR
PIPE MATERIALS

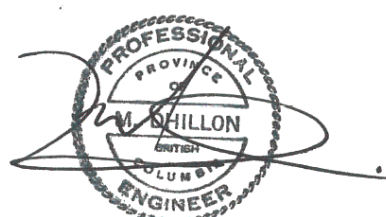


6 DETAIL 1:25
DMH 06 BENCHING

PLOT DATE: 2022-05-20 12:48:13 PM
DRAWN BY: A.SHEWAN
CHECKED BY: S.SHEWAN
DWG PATH: Q:\2021\2264-00-C\DWG\2264-00-C-503-00A.dwg



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PERMIT NUMBER: 1000163
Engineers & Geoscientists BC



2022-05-24

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B	2022MAY16	M.DHILLON	G.ALDERLIESTEN	REVISED 100% DESIGN
A	2022MAR03	M.DHILLON	A.SHEWAN	100% DESIGN
REV	DATE	DESIGN	DRAWN	DESCRIPTION

CITY OF COURTENAY

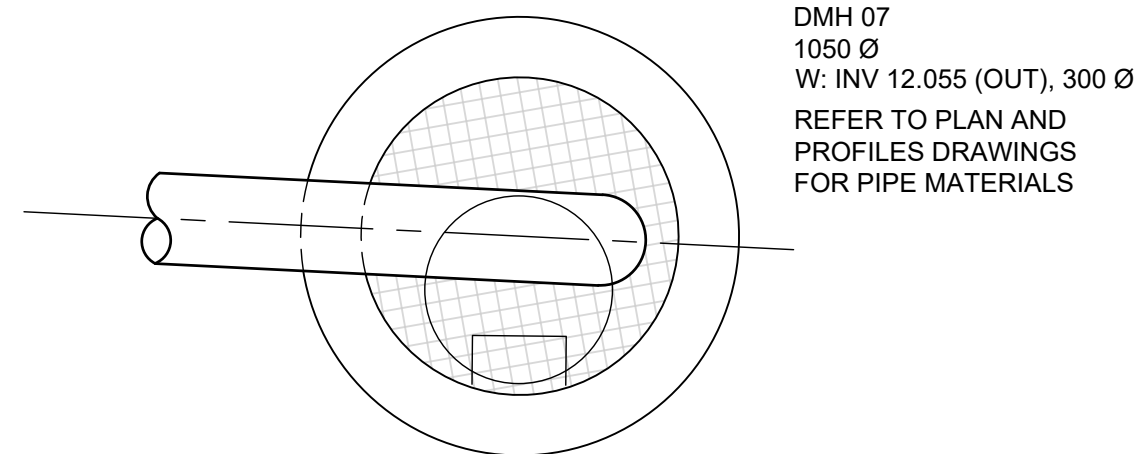
BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

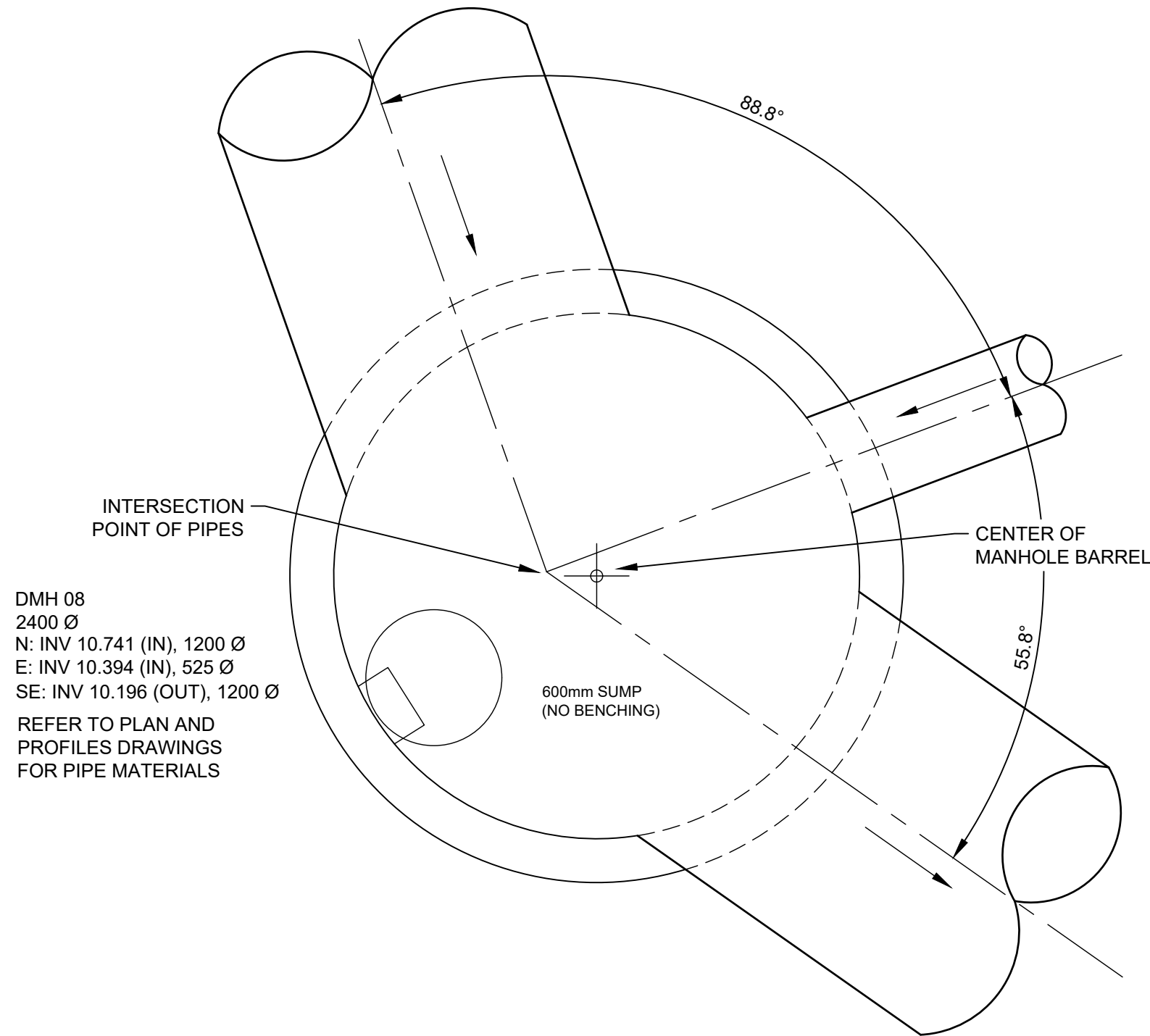
SCALE: AS SHOWN

CIVIL
DRAIN MANHOLE DETAILS

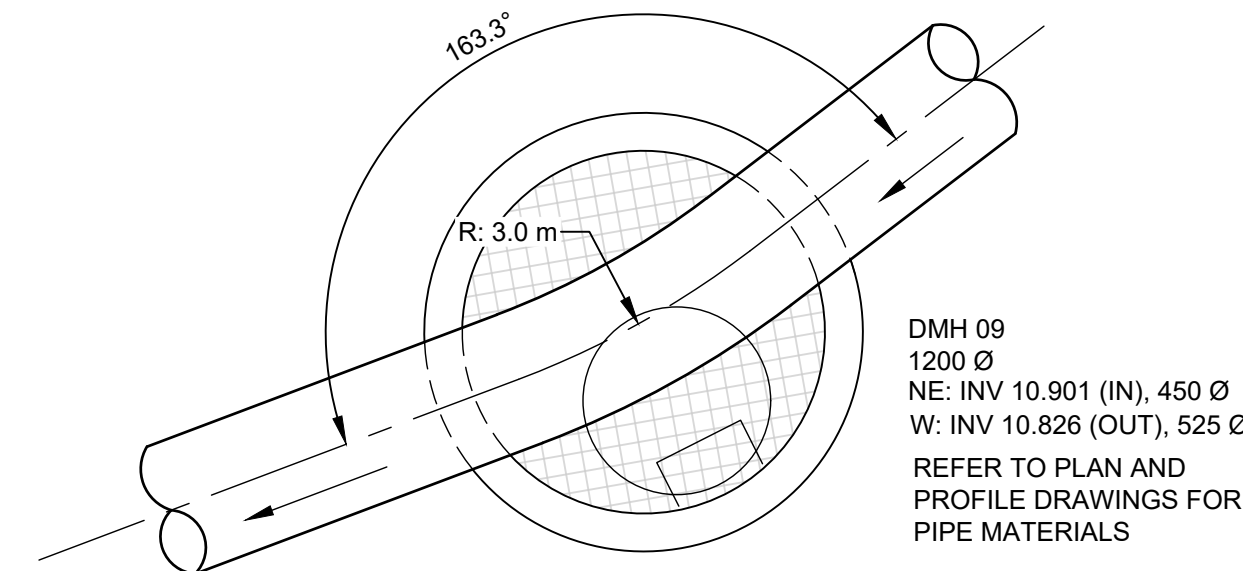
DRAWING	REVISION	SHEET
2264-00-C-503	B	21 / 22



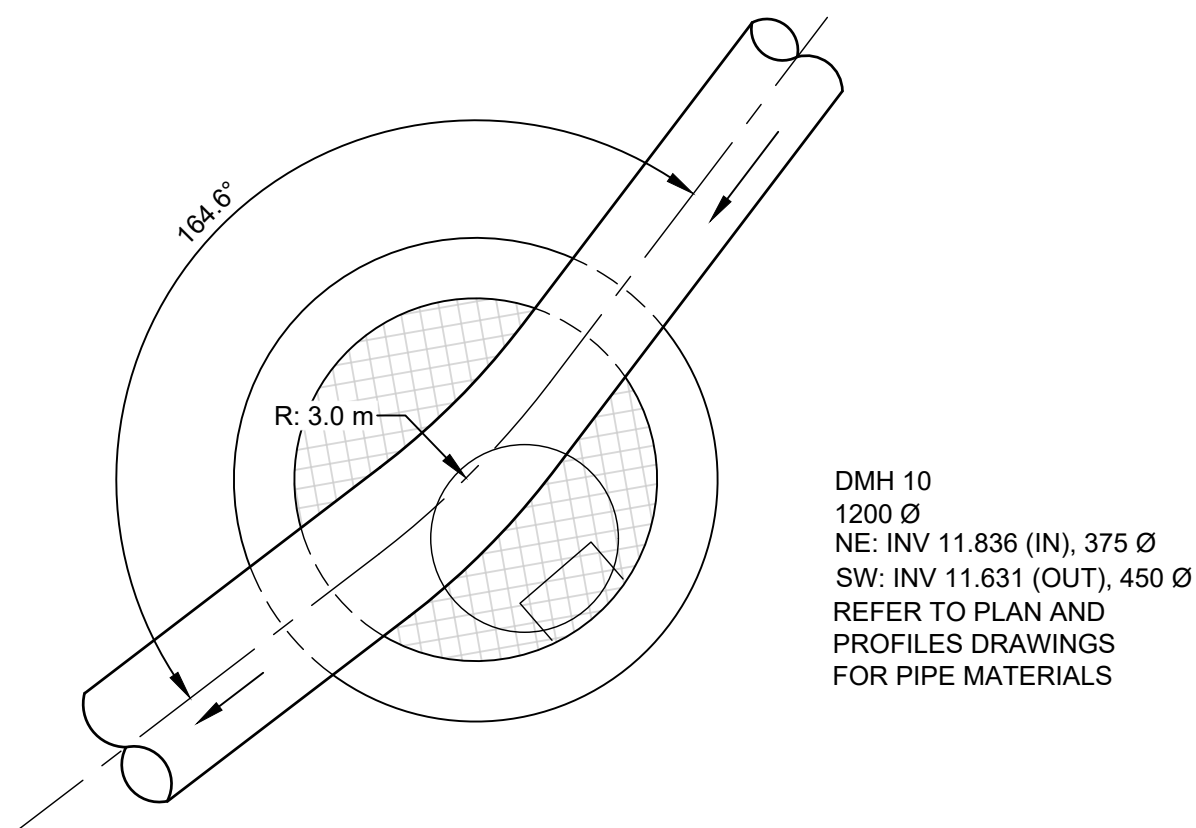
7 DETAIL 1:25
DMH 07 BENCHING



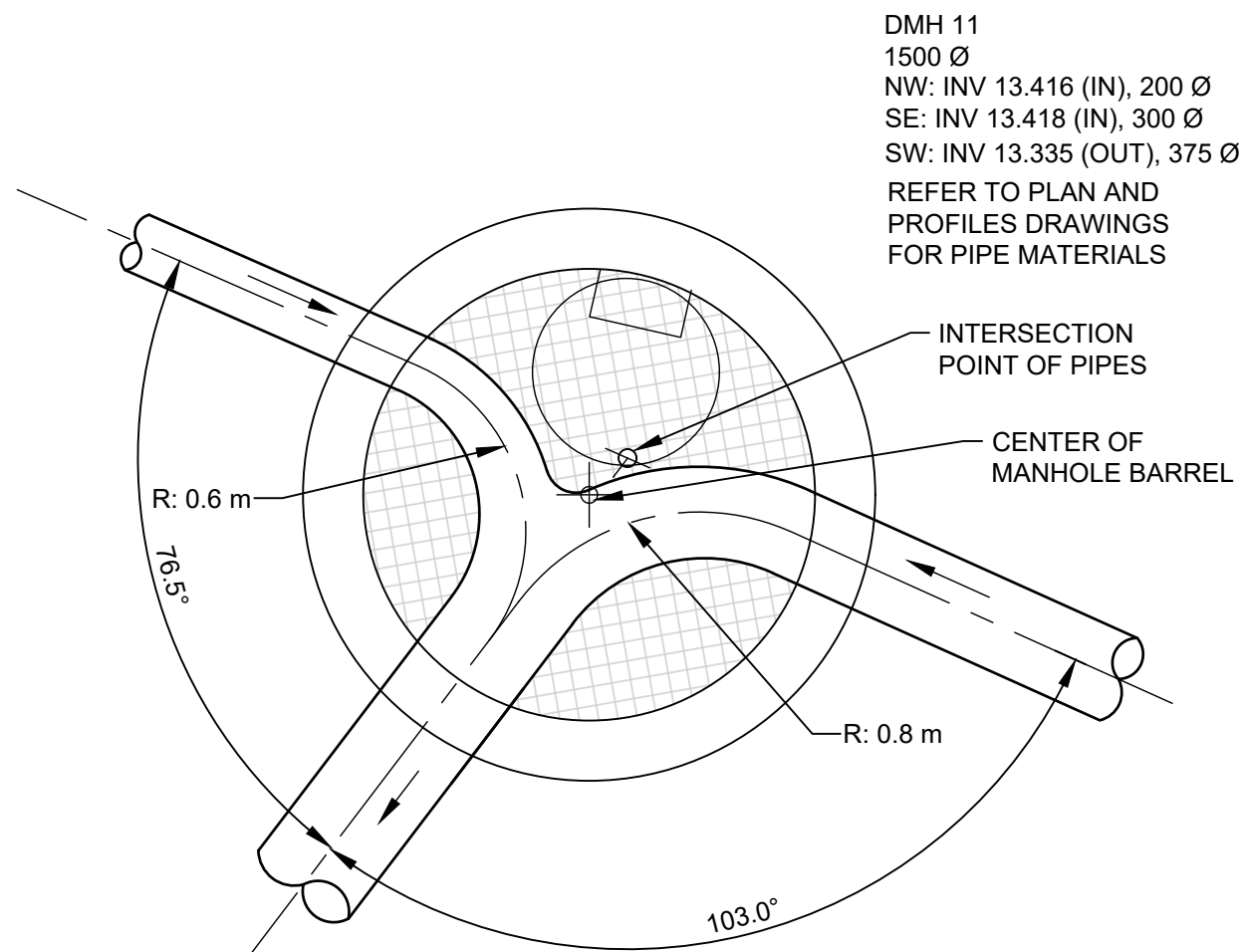
8 DETAIL 1:25
DMH 08 BENCHING



9 DETAIL 1:25
DMH 09 BENCHING



10 DETAIL 1:25
DMH 10 BENCHING



11 DETAIL 1:25
DMH 11 BENCHING

PLOT DATE: 2022-05-20 12:48:22 PM
DRAWN BY: A. SHEWAN
DWS PATH: \\2021-2264-00-C-503-504.dwg



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PERMIT NUMBER: 1000163
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CONSTRUCTION



2022-05-24

B	2022MAY16	M.DHILLON	G.ALDERLIESTEN	REVISED 100% DESIGN
A	2022MAR03	M.DHILLON	A.SHEWAN	100% DESIGN
REV	DATE	DESIGN	DRAWN	DESCRIPTION

CITY OF COURTENAY

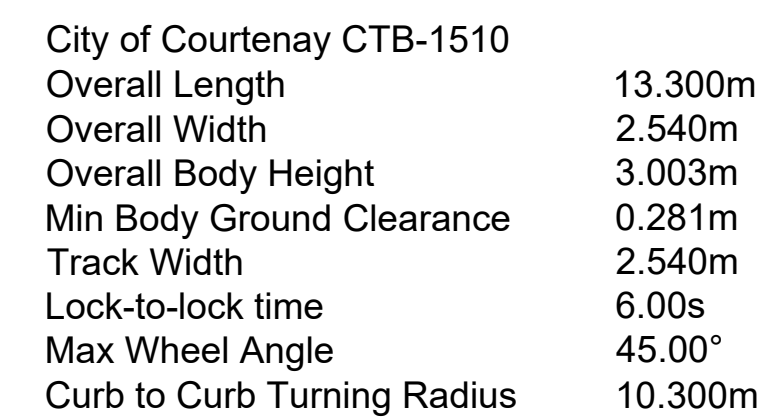
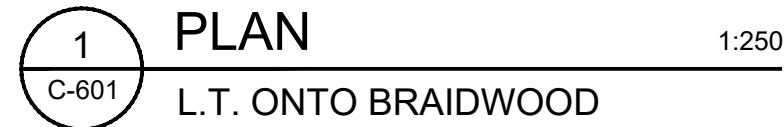
BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

SCALE: AS SHOWN

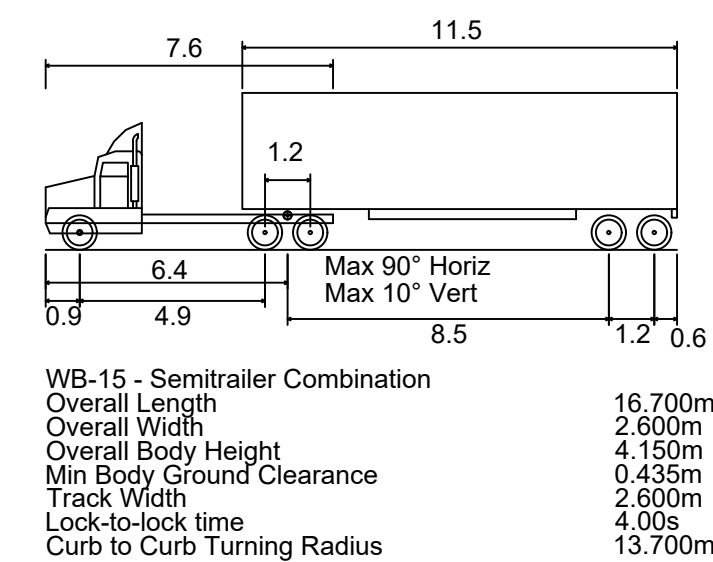
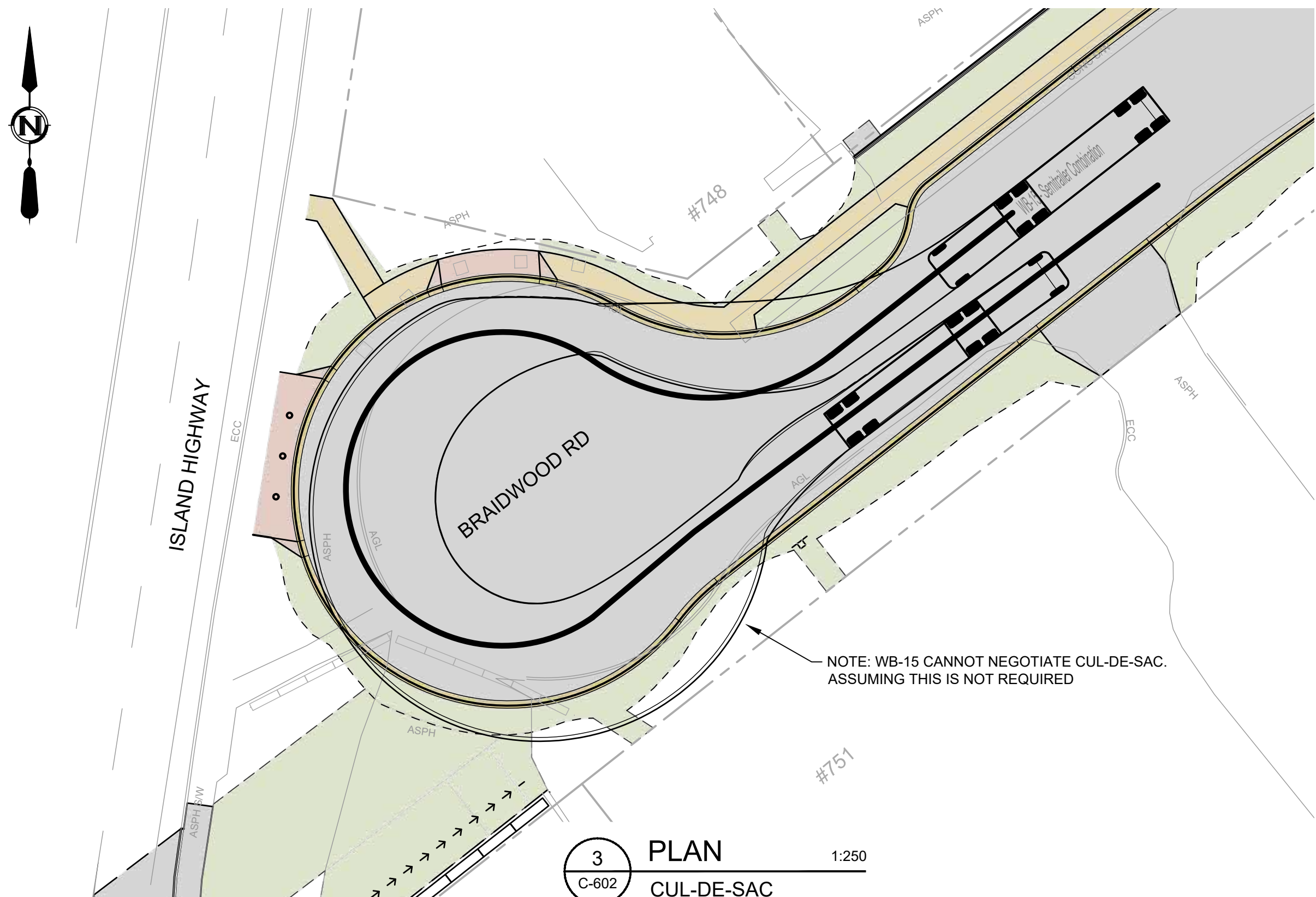
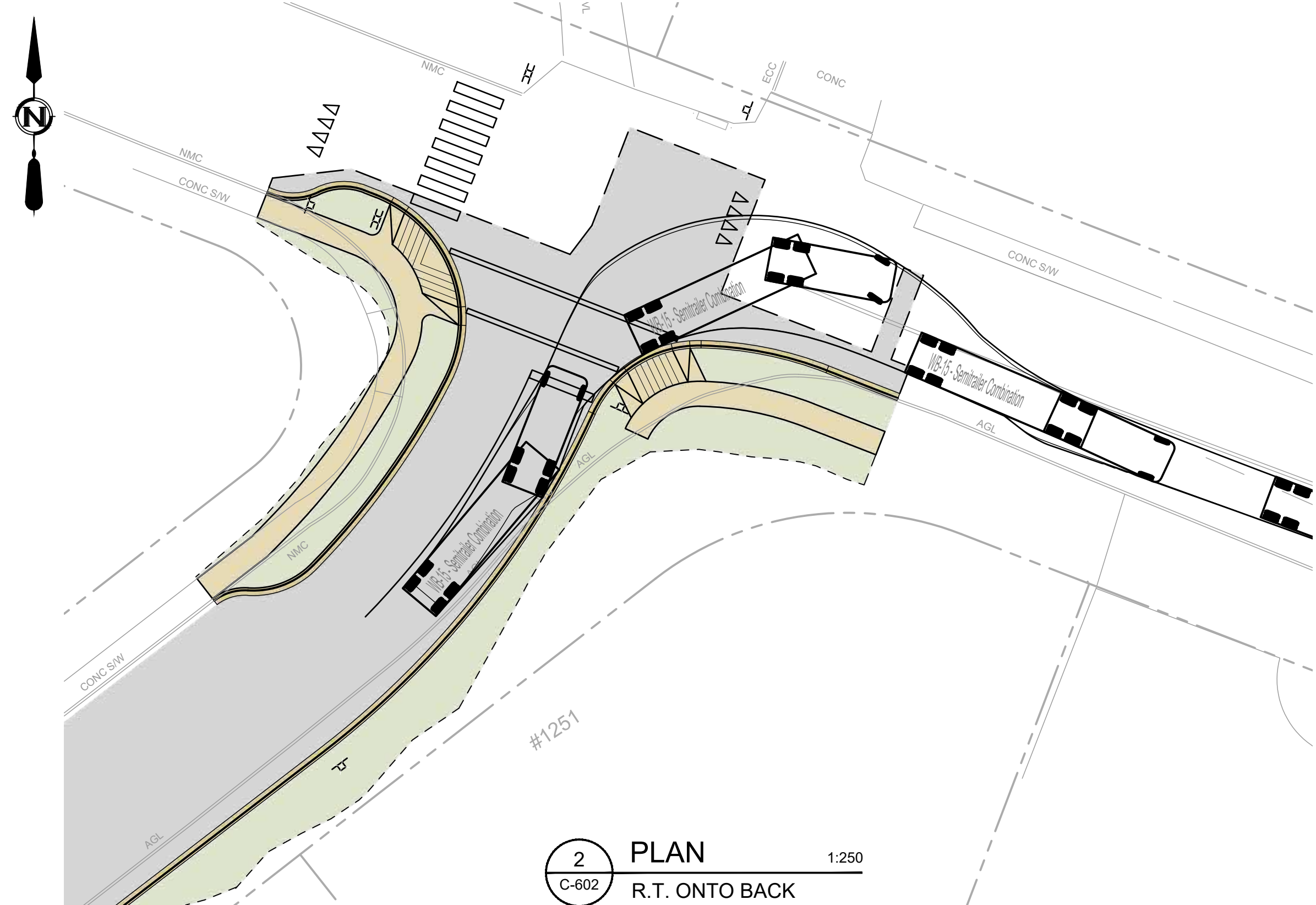
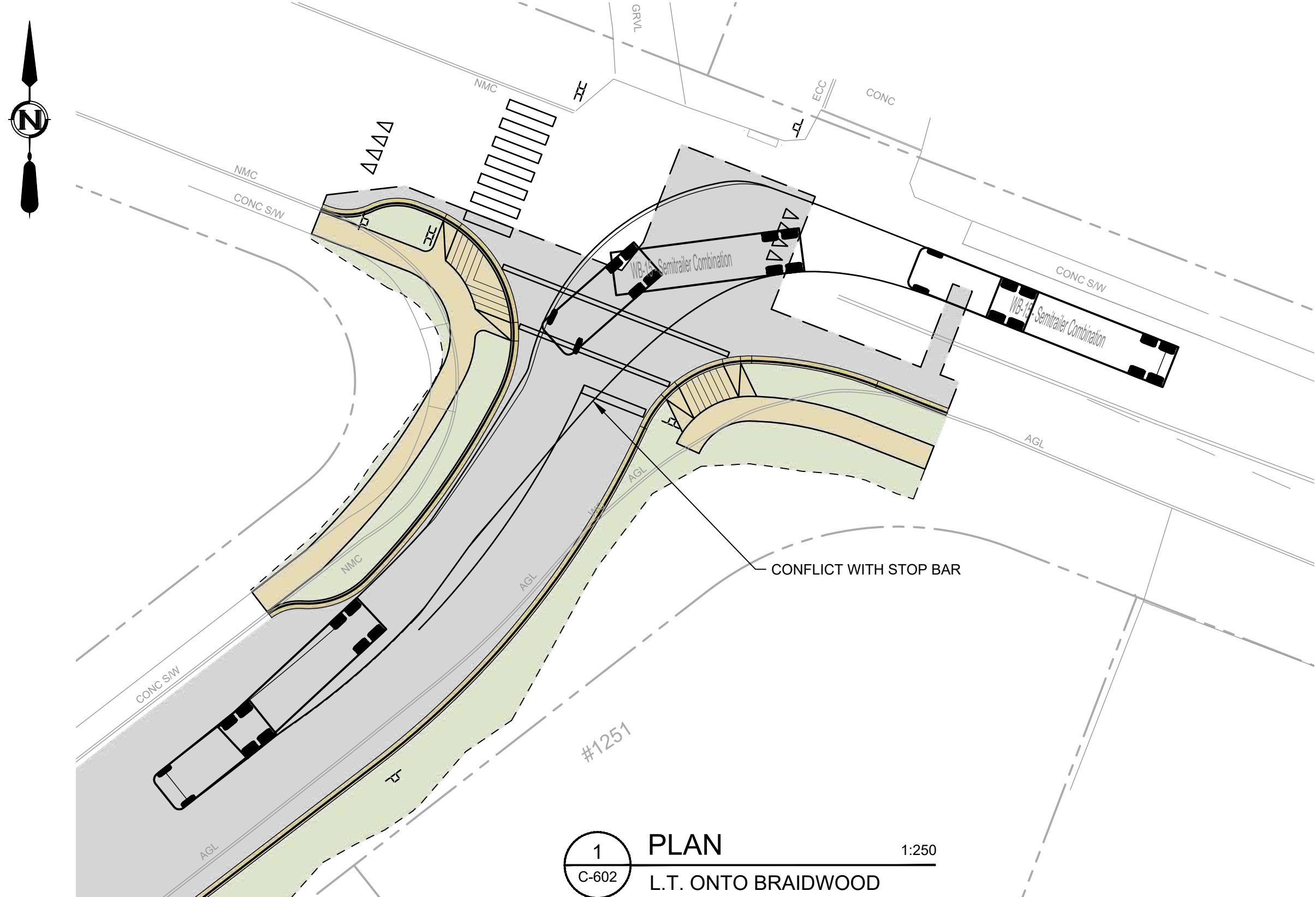
CIVIL
DRAIN MANHOLE DETAILS

DRAWING	REVISION	SHEET
2264-00-C-504	B	22 / 22



IF NOT 50 mm ADJUST SCALES
50 mm

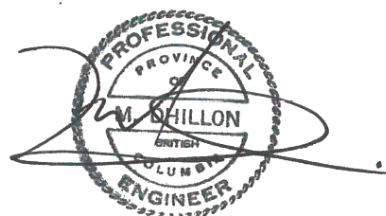
SCALE(S) SHOWN ARE INTENDED FOR ANSI D (22X34) SIZE DRAWINGS, TABLOID (11X17) SIZE DRAWINGS ARE 1/2 OF SCALE(S) SHOWN UNLESS NOTED OTHERWISE



PLOT DATE: 2022-05-20 12:50:48 PM
CITY OF COURTENAY
DRAWN BY: ALDERLIESTEN
DWG PATH: \\2021-2264-00-C-602-00-5-601-604.dwg



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PERMIT NUMBER: 1000163
Engineers & Geoscientists BC



2022-05-24

NOT FOR
CONSTRUCTION

C	2022MAR03	M.HILLON	G.ALDERLIESTEN	ISSUED FOR REVIEW
B	2019JAN28	A.STEPHENSON	G.ALDERLIESTEN	ISSUED FOR REVIEW
A	2018NOV22	A.STEPHENSON	G.ALDERLIESTEN	ISSUED FOR REVIEW
REV	DATE	DESIGN	DRAWN	DESCRIPTION

CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

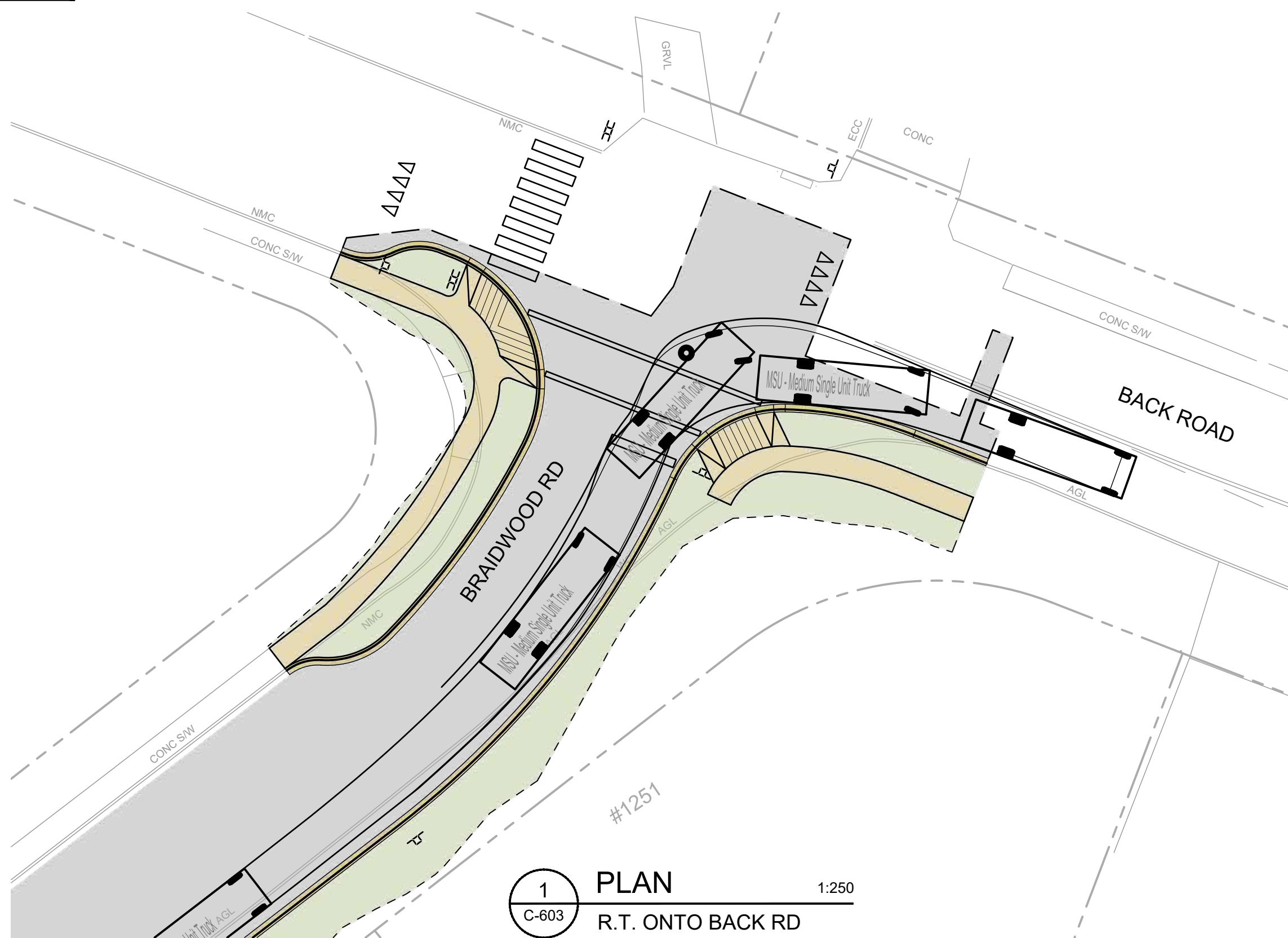
SCALE: 1:250

VEHICLE TURNING MOVEMENTS
WB-15 DESIGN VEHICLE

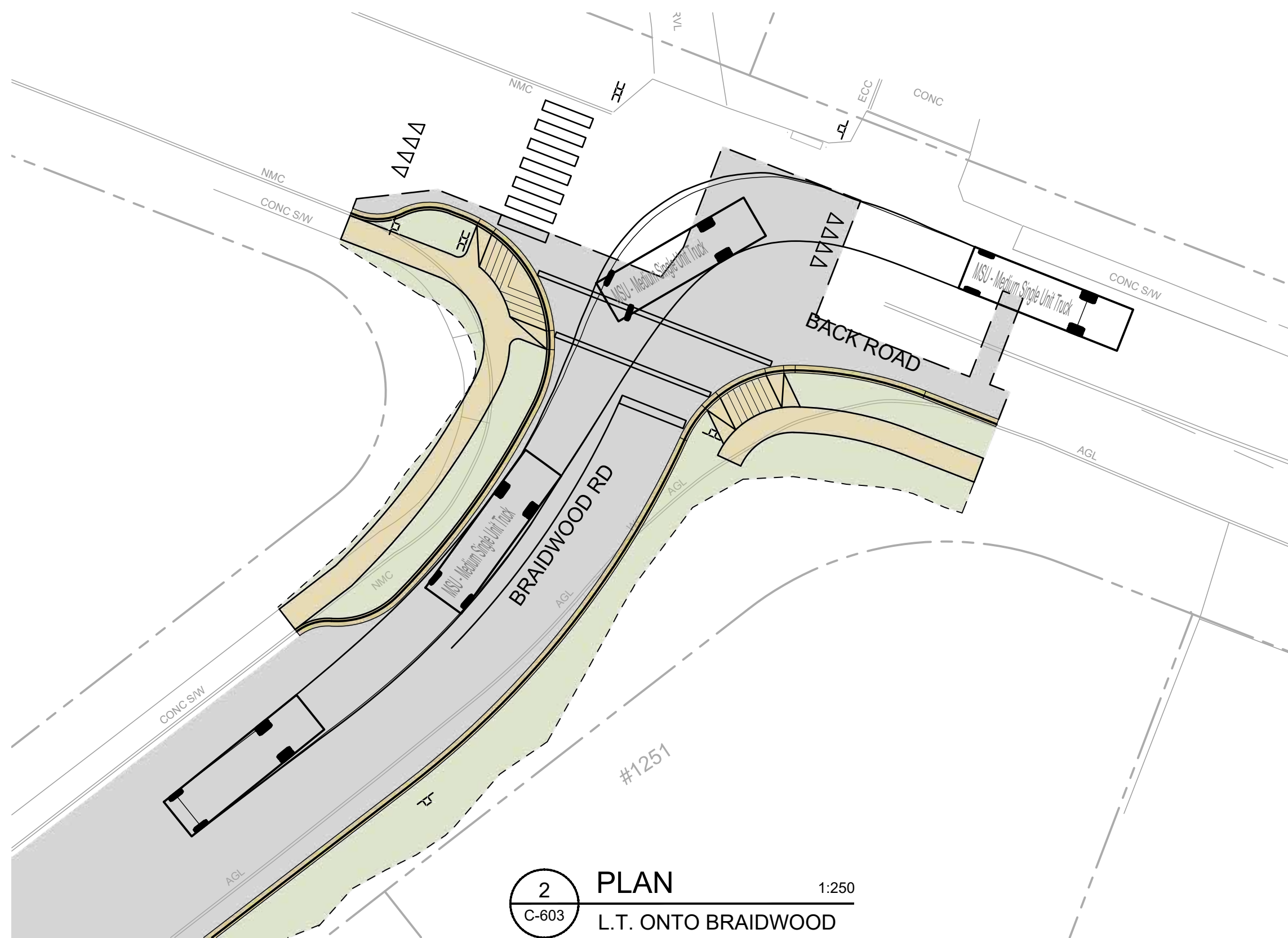
DRAWING	REVISION	SHEET
2264-00-C-602	C	2 / 4

IF NOT 50 mm ADJUST SCALES
50 mm

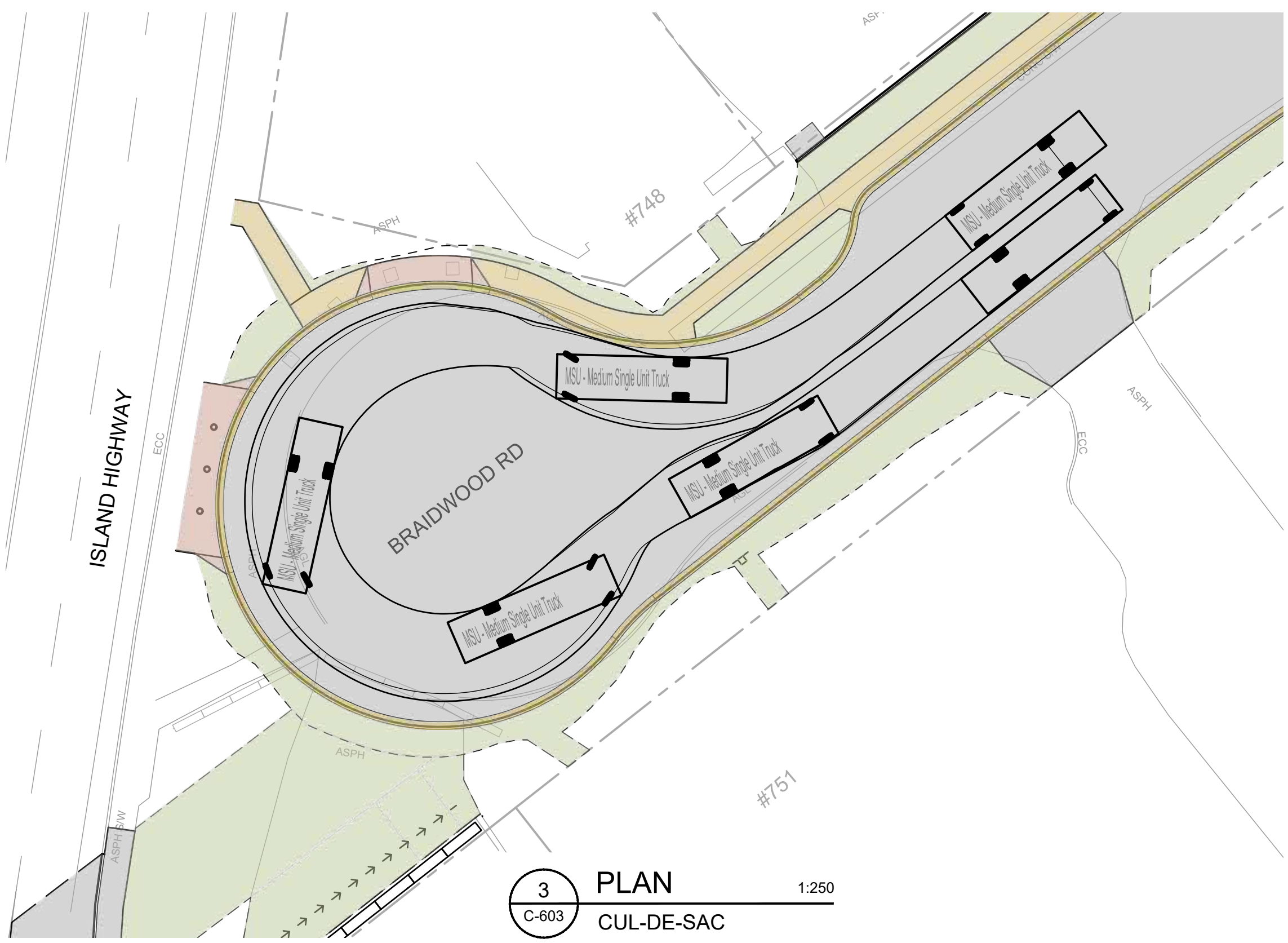
SCALE(S) SHOWN ARE INTENDED FOR ANSI D (22X34) SIZE DRAWINGS, TABLOID (11X17) SIZE DRAWINGS ARE 1/2 OF SCALE(S) SHOWN UNLESS NOTED OTHERWISE



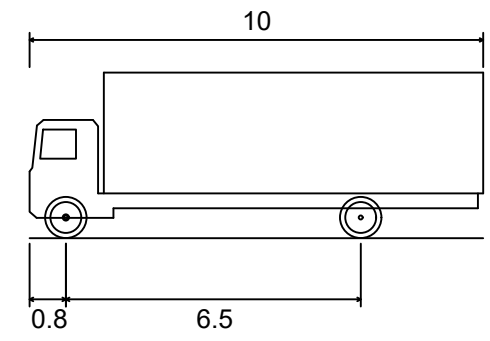
1 PLAN
C-603 R.T. ONTO BACK RD 1:250



2 PLAN
C-603 L.T. ONTO BRAIDWOOD 1:250



3 PLAN
C-603 CUL-DE-SAC 1:250



MSU - Medium Single Unit Truck
Overall Length 10.000m
Overall Width 2.600m
Overall Body Height 3.650m
Min Body Ground Clearance 0.445m
Track Width 2.600m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 11.100m

PLOT DATE: 2022-05-20 12:51:30 PM
C:\Users\alderlie\OneDrive\Documents\2022-2264-00-C-603-604.dwg
DRAWN BY: alderlie



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CONSTRUCTION

CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

SCALE: 1:250

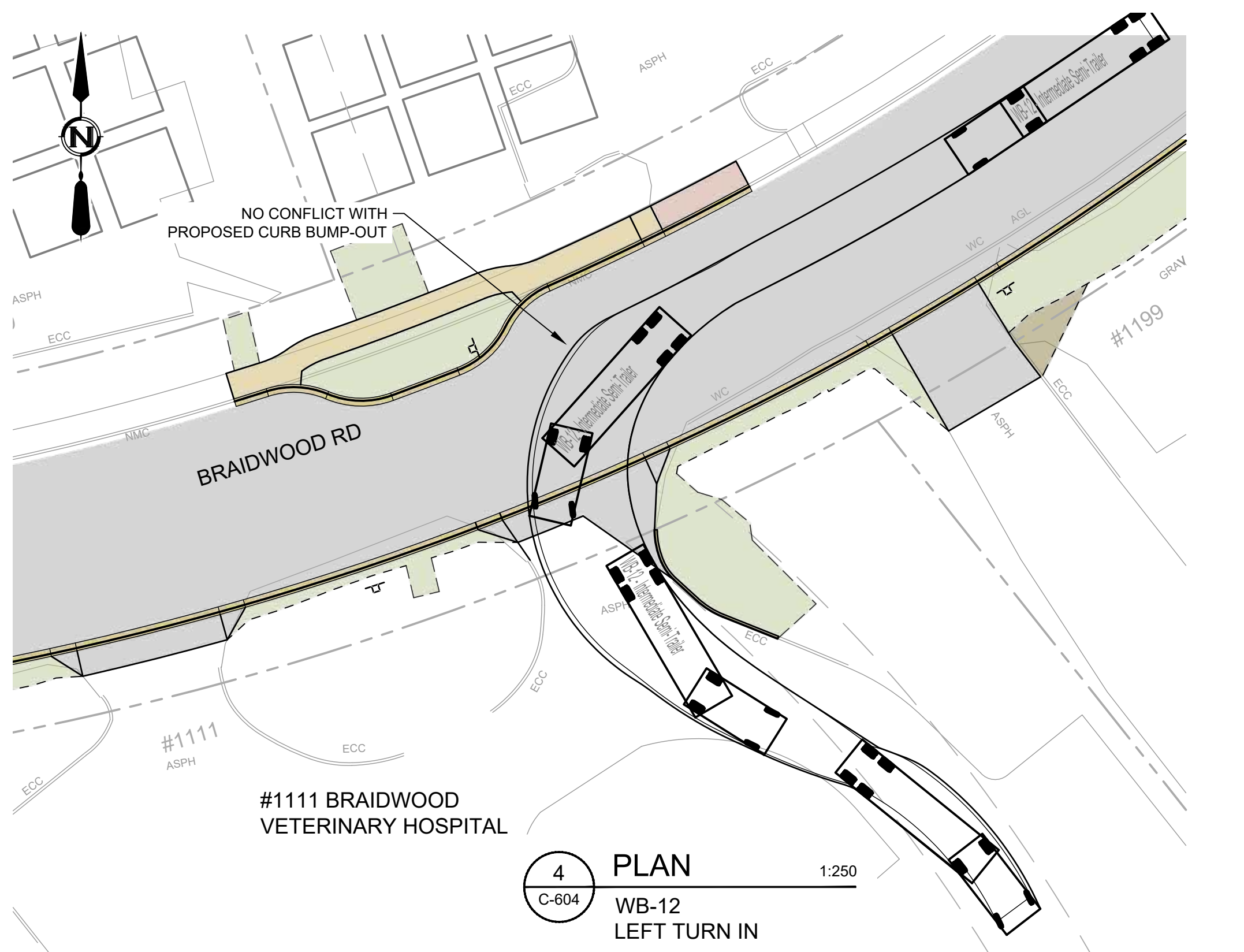
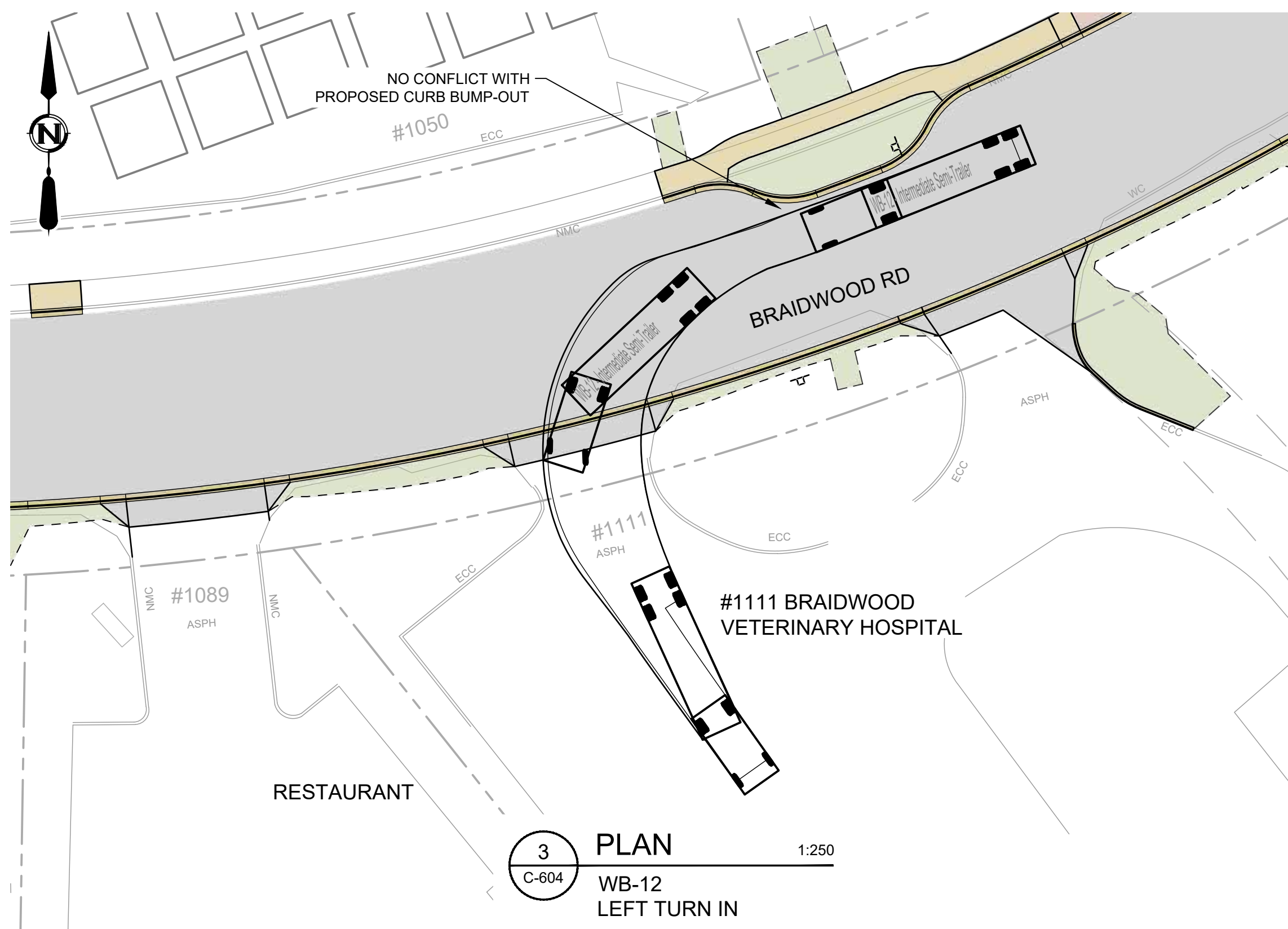
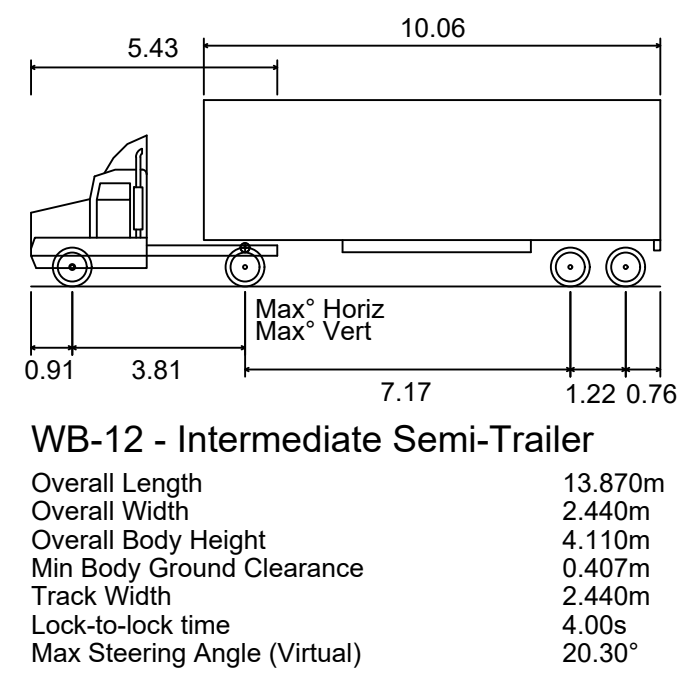
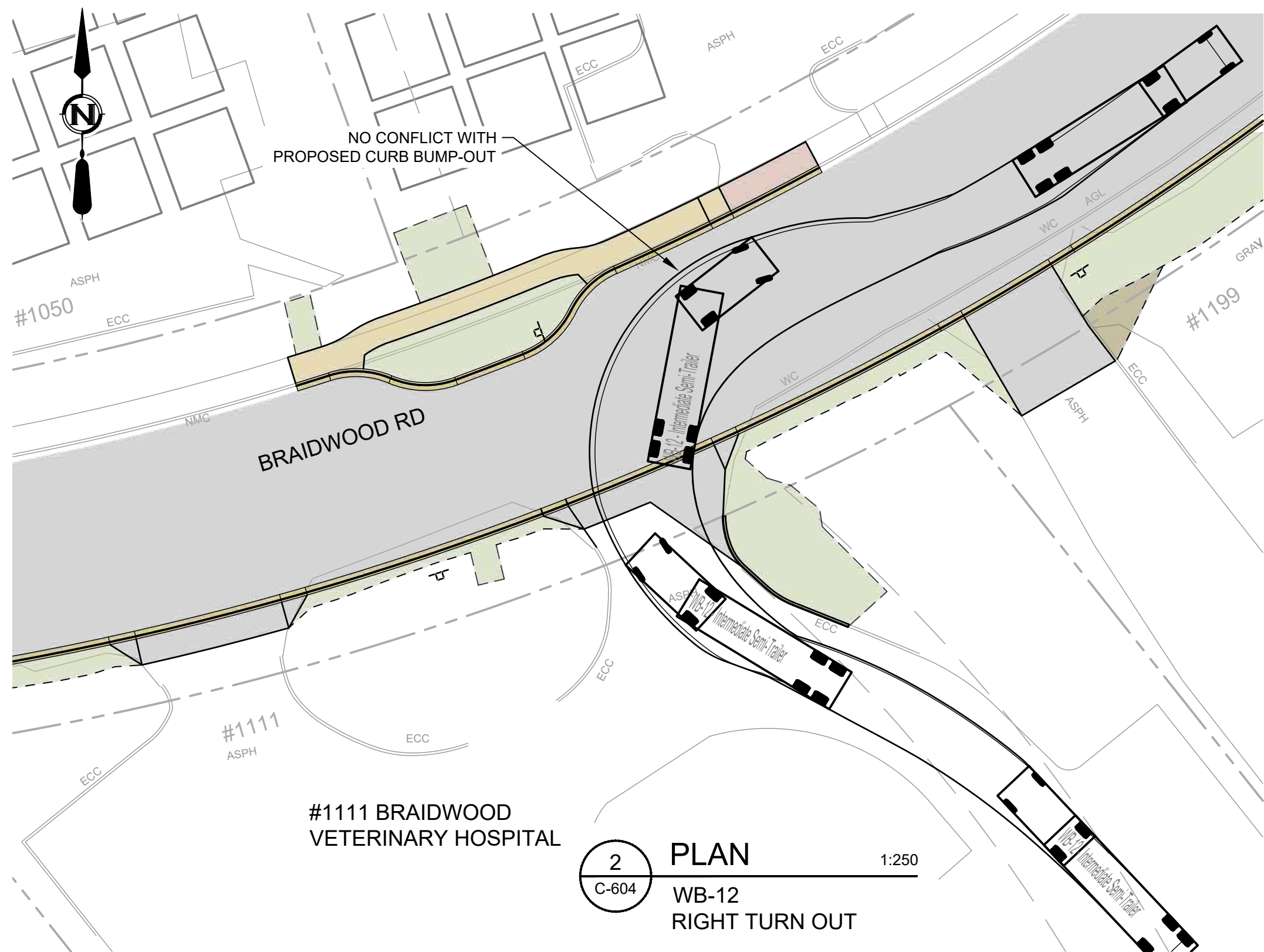
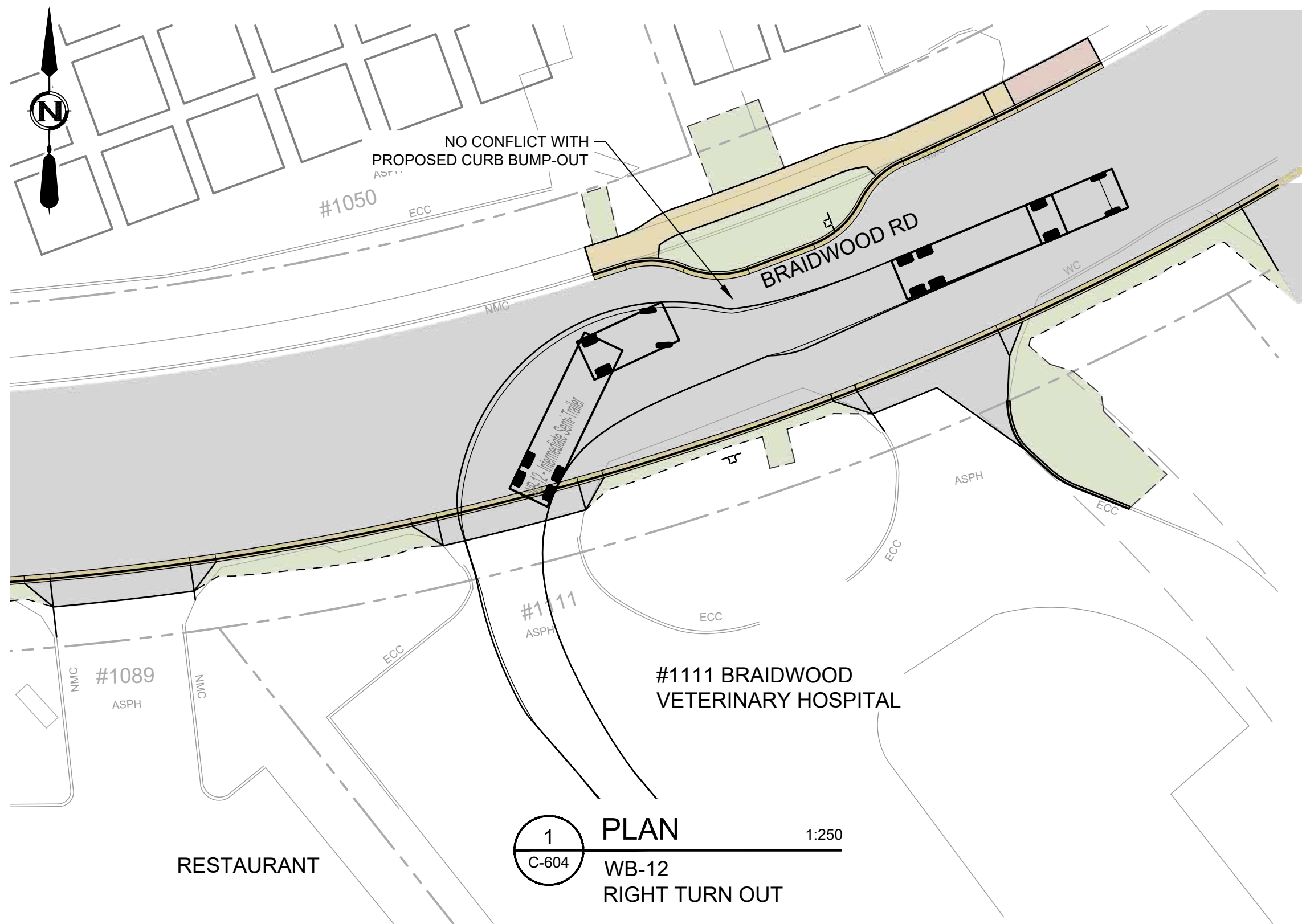
VEHICLE TURNING MOVEMENTS
M.S.U. DESIGN VEHICLE

C	2022MAR03	M.DHILLON	G.ALDERLIESTEN	ISSUED FOR REVIEW
B	2019JAN28	A.STEPHENSON	G.ALDERLIESTEN	ISSUED FOR REVIEW
A	2018NOV22	A.STEPHENSON	G.ALDERLIESTEN	ISSUED FOR REVIEW
REV	DATE	DESIGN	DRAWN	DESCRIPTION

DRAWING	REVISION	SHEET
2264-00-C-603	C	3 / 4

IF NOT 50 mm ADJUST SCALES
50 mm

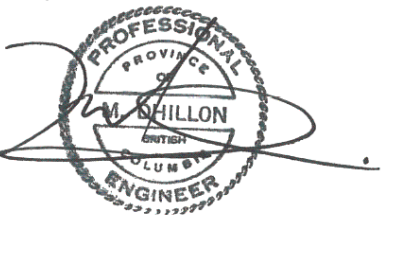
SCALE(S) SHOWN ARE INTENDED FOR ANSI D (22X34) SIZE DRAWINGS, TABLOID (11X17) SIZE DRAWINGS ARE 1/2 OF SCALE(S) SHOWN UNLESS NOTED OTHERWISE



PLOT DATE: 2022-05-20 12:52:18 PM
PLOT USER: ALDERLIESTEN
DRAWING PATH: \\2022-05-20 12:52:18 PM
DRAWING PATH: \\2022-05-20 12:52:18 PM



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C	2022MAR03	M.DHILLON	G.ALDERLIESTEN	ISSUED FOR REVIEW
B	2019JAN28	A.STEPHENSON	G.ALDERLIESTEN	ISSUED FOR REVIEW
A	2018NOV22	A.STEPHENSON	G.ALDERLIESTEN	ISSUED FOR REVIEW
REV	DATE	DESIGN	DRAWN	DESCRIPTION

CITY OF COURTENAY

BRAIDWOOD ROAD
CORRIDOR IMPROVEMENTS

2021-2264-00

SCALE: 1:250

VEHICLE TURNING MOVEMENTS
COMMERCIAL DRIVEWAYS
WB-12

DRAWING	REVISION	SHEET
2264-00-C-604	B	4 / 4