PROPOSED	DESCRIPTION	EXISTING
	ALBERTA SURVEY	ASCM No.
	CONTROL MONUMENT CONTROL POINT	● CP No.
	IRON PIN	<b>⊘</b> IP
	CONSTRUCTION EASEMENT	
	PROPERTY LINE	
	UTILITY RIGHT OF WAY EASEMENT	
DESC ELEV	ABBREVIATION ELEVATION	DESC ELEV
© ELEV	BOLLARD/DELINEATOR POST	• ELEV
<del></del> 0	SIGN	<del></del>
Ф	BOREHOLE	•
₩	BUSH	₩
*	TREE	*
<b>→</b>	ASPHALT SWALE	-4-4-4-4
	CONCRETE SWALE	
<del></del>	DRAINAGE DITCH	<del></del>
<del>~~~~</del>	DRAINAGE SWALE	<del></del>
<b></b>	DRAINAGE SWALE BACKFILLED	
	GRADE BREAK	
	CENTRELINE	
	EDGE OF GRAVEL	
	EDGE OF PAVEMENT	
	CURB AND GUTTER	
	MONOLITHIC SIDEWALK	
	SEPARATE SIDEWALK	
x	FENCE BARBED WIRE	x
	FENCE CHAIN LINK	00
	FENCE SILT	
xxx-	FENCE TO BE REMOVED	
	RAILWAY	++++++++++++

A ET  GW  GUY WIRE  LIGHT STANDARD  A PED  PEDESTAL  PPP  POWER POLE  TS  TRAFFIC SIGNAL  C CABLE  FO FO GAS LINE (NON-AER)  GAS ABANDONED  OVERHEAD POWER  T CLECOMMUNICATION  UNDERGROUND POWER	▲ET
GW GUY WIRE    S   LIGHT STANDARD	
ILS  LIGHT STANDARD  A PED  PEDESTAL  PPP  POWER POLE  TS  TRAFFIC SIGNAL  C CABLE  FO FO GAS LINE (NON-AER)  GAS ABANDONED  OH OVERHEAD POWER  T TELECOMMUNICATION  UNDERGROUND POWER  DIA  BUTTERFLY VALVE	
△ PED PEDESTAL   ○ PP POWER POLE   ○ TS TRAFFIC SIGNAL   — C CABLE   — FO FIBRE OPTIC   — G GAS LINE (NON-AER)   — GAS ABANDONED   — OH OVERHEAD POWER   — T TELECOMMUNICATION   — UG UNDERGROUND POWER	▲ PED  • PP  ⑤ TS  — C — FO — G — OH — T — T
O PP POWER POLE O TS TRAFFIC SIGNAL C CABLE FO FIBRE OPTIC GAS LINE (NON-AER) GAS ABANDONED OH OVERHEAD POWER T TELECOMMUNICATION UNDERGROUND POWER  DI BUTTERFLY VALVE	● PP  ② TS  — C — FO — FO — G — OH — T — T
TRAFFIC SIGNAL  C CABLE  FO FIBRE OPTIC  GAS LINE (NON-AER)  GAS ABANDONED  OH OVERHEAD POWER  T TELECOMMUNICATION  UNDERGROUND POWER  DU BUTTERFLY VALVE	© TS  — — — FO — — — — — OH — — — T
CABLE  FO CABLE  FIBRE OPTIC  GAS LINE (NON-AER)  GAS ABANDONED  OVERHEAD POWER  T TELECOMMUNICATION  UNDERGROUND POWER  DU BUTTERFLY VALVE	
FO FIBRE OPTIC GAS LINE (NON-AER) GAS ABANDONED OH OVERHEAD POWER T TELECOMMUNICATION UNDERGROUND POWER  DI BUTTERFLY VALVE	F0 — F0 — G — OH — T —
GAS LINE (NON-AER) GAS ABANDONED OVERHEAD POWER TELECOMMUNICATION UNDERGROUND POWER  BUTTERFLY VALVE	— G — G — OH — T — T
GAS ABANDONED  OVERHEAD POWER  T TELECOMMUNICATION  UNDERGROUND POWER  DI BUTTERFLY VALVE	— / G - OH — T —
OVERHEAD POWER  T TELECOMMUNICATION UNDERGROUND POWER  DI BUTTERFLY VALVE	——— ОН —— ———— Т ——
TELECOMMUNICATION UNDERGROUND POWER  BUTTERFLY VALVE	— т —
UNDERGROUND POWER  DI BUTTERFLY VALVE	
□ BUTTERFLY VALVE	——— UG —
. ,	
	[ <b>•</b> ]
	<b>⋈</b>
•	<b>♥</b>
X CURB STOP W 150=55	X W 150
— — WATER MAIN	
✓ — WATER MAIN ABANDONED	
— <del> </del> o CLEANOUT	<del> </del> 0
Δ LANDSCAPE CATCH BASIN	<b>A</b>
O MANHOLE	
ı <b>√</b> ı PLUG VALVE	J
<u></u>	_
CATCH BASIN	
≻≺ CULVERT	<b>≻</b> -
INLET STRUCTURE	)
S 200 OUTFALL STRUCTURE	S 200
— — — SANITARY	
SANITARY ABANDONED	\$ 200 ST 200
ST 200 STORM	ST 200
ST 200 STORM ABANDONED	ST 200
TD 100 TILE DRAIN	TD 100

PROPOSED	DESCRIPTION	EXISTING
<b>⊢</b> >	AIR RELEASE	↔
ll ll	BELLxBELL ADAPTER	IÍ
н	BELLXFLANGE ADAPTER	⊢(
	COUPLER	=
<b>#</b>	CROSS	H
<b>4</b>	ELBOW 90°	₽
1	ELBOW 45°	1
-0	FLUSH POINT	• =•
ıΣı	НОТ ТАР	<b>,Y</b> ,
×	LOT SERVICE	×
С	PLUG	Г
۵	REDUCER	•
н	TEE	H
₫	REDUCER TEE	■

### NOTES:

 ALL ELEVATIONS AND STATIONS IN METRES. PIPE LENGTHS, PIPE SIZES AND DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

THE EXISTENCE, LOCATION AND ELEVATION OF ALL UTILITIES AS SHOWN ON ANY PLANS MAY BE BASED ON INFORMATION RECEIVED FROM THE RESPECTIVE AUTHORITIES AND ARE NOT GUARANTEED BY THE ENGINEER. NO RESPONSIBILITY IS IMPLIED OR ASSUMED BY THE ENGINEER AS TO THE LOCATION AND ELEVATION OR ANY OMISSIONS. THE CONTRACTOR OR ANY THIRD-PARTY IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND MUST CONTACT THE VARIOUS UTILITY COMPANIES FOR ON SITE INFORMATION PRIOR TO COMMENCEMENT OF ANY OPERATIONS.

1	24-05-15	FOR QUOTATION
ISSUE	YY-MM-DD	REVISION

PERMIT TO PRACTICE
MPE, a division of Englobe Corp.

Signature
APEGA ID 77905
MAY 15, 2024
PERMIT NUMBER: P 7841
The Association of Professional Engineers and Concidentists of Aberta (APEGA)





# **TOWN OF WESTLOCK**

SPIRIT CENTRE PARKING LOT CIVIL LEGEND

DESIGNED	R.R., M.A	JOB	5454-035-00
DRAWN	A.B.E	SCALE	
DATE	MAY 2024	DRAWING	C0.1

DIGITAL DRAWINGS BEST VIEWED IN @ADOBE ACROBAT READER		
Ę,	ABANDONED	AB
BA	ACRE	AC
ğ	AIR RELEASE MANHOLE AIR RELEASE VALVE	AR ARV
BE A	ALBERTA SURVEY CONTROL MONUMENT	ASCM
ᅙ	ASBESTOS CEMENT	AC
ΘA	ASPHALTIC CONCRETE PAVEMENT	ACP
≥	AT	@ AV/F
	AVENUE	AVE
ΕĒ	BACK OF WALK	BOW
IS.	BEDDING	BED
SBI	BEGINNING OF CURVE	ВС
2	BEGINNING OF VERTICAL CURVE	BVC
≹ I	BELLXBELLXBELL BELLXFLANGE	BxBxB BxFL
8	BELLXPIGOT	BxSP
Ĭ	BENCH MARK	BM
<u> </u>	BLOCK	BLK
٦	BOREHOLE	ВН
	BOTTOM OF DIDE	BTM
	BOTTOM OF PIPE BOUNDARY	BOP BDY
	BOULEVARD	BLVD
	BUILDING	BLDG
	CABLE	C
SS	CANADIAN NATIONAL RAILWAY CANADIAN PACIFIC RAILWAY	CNR CPR
ŽΙ	CANADIAN FACIFIC RAILWAY  CANADIAN STANDARDS ASSOCIATION	CSA
≩Ι	CAPACITY	CAP
	CAST IRON	CI
Σ	CATCH BASIN	СВ
ARE BASED ON 11"x17" FORMAT DRAWINGS	CATHODIC PROTECTION	CP
-	CENTRE LINE CERTIFICATE OF TITLE	CL C OF T
ΞΙ	CHAIN LINK FENCE	CLF
N F	CHECK DROP	CD
2	CHECK VALVE IN MANHOLE	CVM
4SE	CLASS	CL
EB/	CLEAN OUT	CO
	COMMUNITY RESERVE COMPLETE WITH	COMM RES C/W
딢	CONCRETE	CONC
ੂ	CONDUIT	COND
ᄝ	CORRUGATED	С
S	CORRUGATED METAL PIPE	CMP
ALL SCALE NOTATIONS INDICATE	CORRUGATED STEEL PIPE	CSP
á	COUPLING CREEK	CPLG CRK
밀	CRESCENT	CRES
3	CROSSFALL	X-FALL
E S	CROSS DRAIN	C-D
	CROSS SECTION	X-SEC
SIZE	CUBIC METRE PER SECOND	m³/s
¥	CULVERT	CULV
5	CURB AND GUTTER CURB STOP	C&G CS
8	CURED IN PLACE PIPE	CIPP
£	CURVE TO SPIRAL	cs
ĕ		
Ĕ		
밀		
اقِ		
ĭ		
E	PVC AND HDPE PIPE HAZEN WILLIAMS ROUGHNES	S COEFFICIENT
E BE	100Ø - 450Ø	
₹	500Ø - 1500Ø C=145	
¥		
ž	OVERLAND STORM WATER FLOW FORMULA ABBR	
NG NG	DEPTH OF FLOW IN 1 IN 5 YEAR STORM EVENT	D <sub>1:5</sub>
DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE.	DEPTH OF FLOW IN 1 IN 100 YEAR STORM EVENT	D <sub>1:100</sub>
S		

FLOW RATE FOR A 1 IN 100 YEAR STORM EVENT

DEGREE	•	KILOGRAM	kg
DELTA	d	KILOMETRES	km 
DIAMETER DIMENSION RATIO	Ø DR	KILOMETRES PER HOUR	km/h
DOMESTIC TURNOUT	DTO	RATE OF CURVATURE	K
DRAINOUT	DO	LANDSCAPE CATCH BASIN	LSCB
DRAIN INLET	DI	LATERAL TURNOUT	LTO
DRAWING	DWG	LENGTH	L
DRIVEWAY	DWY	LENGTH OF CURVE	LC
DUCTILE IRON	DI	LENGTH OF VERTICAL CURVE	LVC
DWELLING	DWLG	LIFT STATION	LS
		LIGHT STANDARD	LS
EAST	E	LIP OF GUTTER	LG
EDGE OF GRAVEL	EOG	LIP OF GUTTER RADIUS	LGR
EDGE OF PAVEMENT	EOP	LONG RADIUS	LR
EDGE OF ROAD	EOR	LONG TANGENT	LT
ELECTRICAL TRANSFORMER	ET	LOW POINT	LP
ELEVATION	ELEV ENC	LOW PROFILE CURB AND GUTTER	LPC&G
ENCASEMENT END OF CURVE	ENC	MANUALE	8411
END OF CORVE	EVC	MANHOLE MANHOLE CATCH BASIN	MH MHCB
ENGINEER	ENG	MAXIMUM	MAX
ENVIRONMENTAL CONSTRUCTION OPERATIONS	ECO	MEDIAN	MED
ENVIRONMENTAL RESERVE	ER	METRE	m
EXTERIOR DROP	EXT DROP	METRES PER SECOND	m/s
EXISTING GROUND	EG	METER CHAMBER	MC
		MIDDLE ORDINATE DISTANCE	М
FACE OF CURB	FOC	(VERTICAL SEPARATION FROM PI)	•••
FACE OF WALK	FOW	MILLIMETRE	mm
FARM CROSSING	FC	MINIMUM	MIN
FARM TURNOUT	FTO	MINUTES	•
FIBRE OPTIC	FO	MONITORING WELL	MW
FINISHED GRADE	FG	MONOLITHIC SIDEWALK	MONO
FINISHED LANDSCAPE GRADE	FLG	MUNICIPAL RESERVE	MR
FLANGE	FLG		
FLAPPER GATE	FP	NORTH	N
FLOOD PLAIN	FLD PLN	NORTH EAST	NE
FLOOD WAY FLOOR	FLD WY FLR	NORTH WEST	NW
FLOOR FLOW RATE		NOT TO SCALE	NTS
FOOTING	Q FTG	NUMBER	No.
FORCE MAIN	FM	ON CENTRE	ос
FRAME & COVER	F&C	ON CENTRE OPTIMUM MOISTURE	OM
		OUTLET CHAMBER	OC
GALVANIZED	GALV	OUTSIDE DIAMETER	OD
GALVANIZED IRON	GI	OVERHEAD POWER	ОН
GAS	G		• • • • • • • • • • • • • • • • • • • •
GUY WIRE	GW	PEDESTAL	PED
		PER	/
HECTARE	ha	PERCENT	%
HEIGHT	Н	PIEZOMETER	PΖ
HIGH DENSITY POLYETHYLENE	HDPE	PIPELINE TURNOUT	то
HIGH POINT	HP	POINT OF INTERSECTION	PI
HIGHWAY	HWY	POLYETHYLENE	PE
HORIZONTAL	HOR OR H	POLYVINYL CHLORIDE	PVC
HORIZONTAL DIRECTIONAL DRILL	HDD	POWER POLE	PP
HOSPITAL	HOSP	POUNDS PER SQUARE INCH	PSI
HYDRANT	HYD	PRESSURE REDUCING MANHOLE	PRVM
HYDRAULIC GRADE LINE	HGL	PROPERTY LINE	PL
NLET CHAMBER	IC	PULL BOX	PB
INLET CHAMBER INLET CONTROL DEVICE	IC ICD	PUMPOUT	PO
INLET/OUTLET STRUCTURE (DRY POND)	1/0	PUMP STATION	PS
INSIDE DIAMETER	ID		
INTERSECTION	INT		
INVERT	INV		
IRON PIN	IP		
FLOW RATE FOR A 1 IN 5 YEAR STORM EVENT	Q <sub>1:5</sub>	VELOCITY FOR A 1 IN 5 YEAR STORM EVENT	V <sub>1</sub>

VELOCITY FOR A 1 IN 100 YEAR STORM EVENT

V<sub>1:100</sub>

RAW WATER	RW
REDUCER	RED
REGISTERED PLAN	REG'D PL
REINFORCED	RE
REINFORCED CONCRETE	RC
RELOCATION	RELO
REMOVE	R
RESERVOIR	RES
RIGHT OF WAY	ROW
ROAD	RD
ROAD CROSSING	RC
ROLLED CURB AND GUTTER	RCG
RUBBER GASKET	RG
SANITARY	S
SECOND	n .
SHOULDER	SHLD
SLOPE	S
SOUTH	S
SOUTH EAST	SE
SOUTH WEST	SW
SPIRAL TO CURVE	SC
SPIRAL TO TANGENT	ST
SQUARED	SQ
STANDARD	STD
STANDARD PROCTOR DENSITY	SPD
STAINLESS STEEL	SST
STATION	STA
STEEL	ST
STREET	ST
STORM	ST
3131111	5.
TANCENT	TAN
TANGENT	TAN
TANGENT TO SPIRAL	TS
TAPPING VALVE	TV
TELECOMMUNICATION	Т
THRUST BLOCK	TB
TILE DRAIN	TD
TOP OF ASPHALT	
	TOA
TOP OF CURB	TOC
TOP OF DAM	TOD
TOP OF PIPE	TOP
TOP OF RAIL	TOR
TOWNSHIP	TWP
TRAFFIC SIGNAL	TS
TYPICAL	TYP
UNDERGROUND POWER	UG
UTILITY RIGHT OF WAY	URW
VALVE	V
VALVE CHAMBER	VC
VELOCITY	VEL
VERTICAL	VER OR V
VERTICAL BEND DOWN	VBD
VERTICAL BEND UP	VBU
VERTICAL CURVE	VC
VERTICAL POINT OF INTERSECTION	VPI
VITRIFIED CLAY TILE	VCT
VIINIFIED CLAT TILE	VCI
WATER	W
WATER VALVE	WV
WEST	W
WEEPING TILE DRAIN	WTD
WHEEL CHAIR RAMP	WCR
WIDTH	W
WIDIR	VV

RGE

RW

RADIUS

RANGE

**RAW WATER** 

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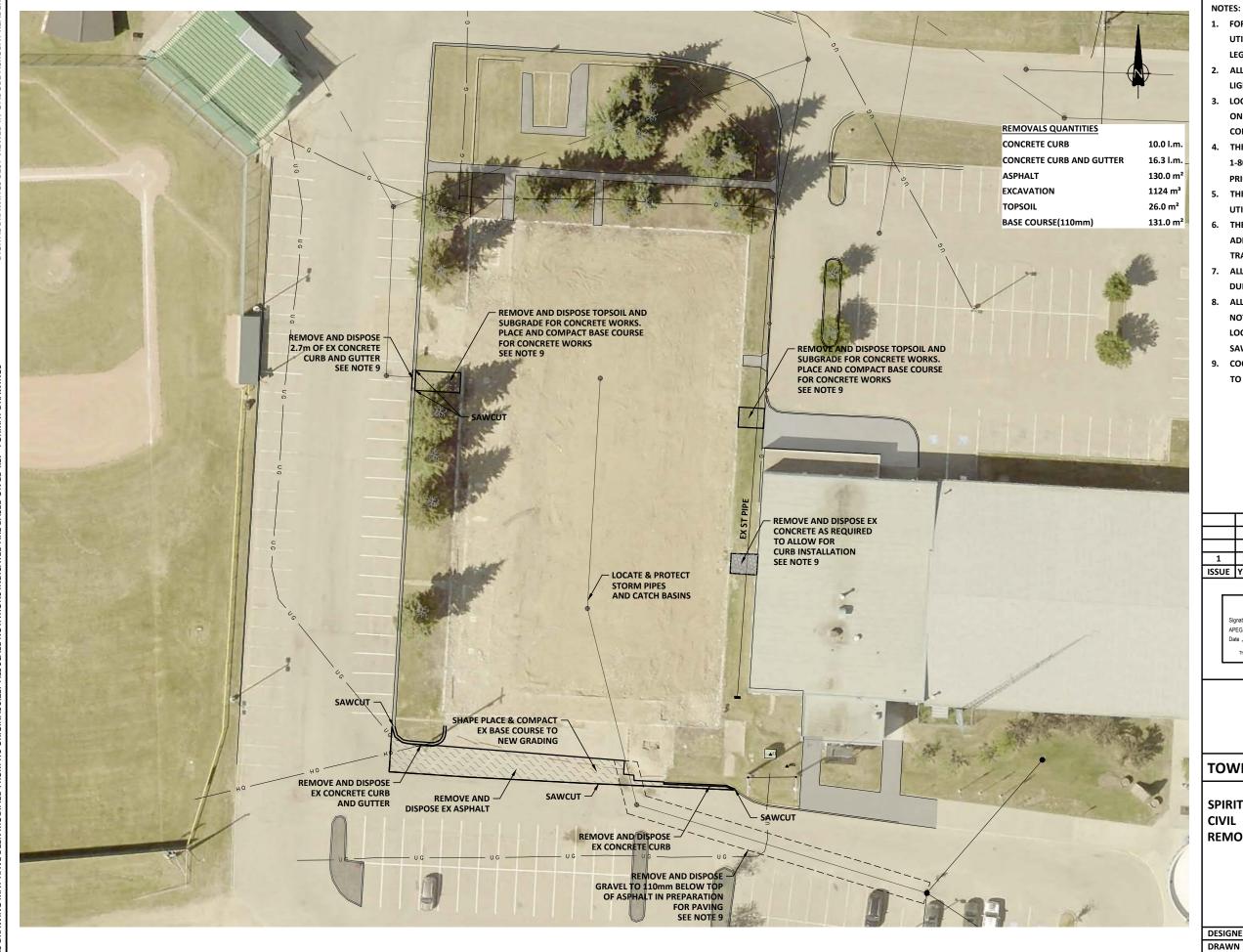




# **TOWN OF WESTLOCK**

**SPIRIT CENTRE PARKING LOT** CIVIL **ABBREVIATIONS** 

DESIGNED	R.R., M.A	JOB	5454-035-00
DRAWN	A.B.E	SCALE	
DATE	MAY 2024	DRAWING	C0.2



- FOR INFORMATION REGARDING GENERAL NOTES,
   UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE
   LEGEND AND ABBREVIATIONS DRAWINGS.
- ALL BOLD ITEMS INDICATE WORK TO BE DONE AND ALL LIGHT ITEMS INDICATE EXISTING CONDITIONS.
- 3. LOCATION OF EXISTING CONDITIONS ARE APPROXIMATE ONLY AND SHALL BE FIELD CONFIRMED PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR SHALL CALL ALBERTA ONE-CALL AT
  1-800-242-3447 AT LEAST THREE (3) WORKING DAYS
  PRIOR TO BEGINNING ANY EXCAVATION OR REMOVALS.
- 5. THE CONTRACTOR IS RESPONSIBLE COORDINATING UTILITY LINE CROSSINGS WITH UTILITY COMPANIES.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING
  ADEQUATE BARRICADES, CONSTRUCTION SIGNAGE,
  TRAFFIC CONTROL, AND FLAG PERSONS.
- ALL EXISTING TREES TO BE PROTECTED FROM DAMAGE DURING THE CONSTRUCTION PROCESS.
- 8. ALL SAWCUT LINES SHALL BE STRAIGHT & PLUMB AND NOT EXCEED THE REMOVAL AREA. ALL SAWCUTTING LOCATIONS TO BE APPROVED BY THE TOWN.

  SAWCUTTING IS TO BE INCIDENTAL TO THE WORK.
- COORDINATE WITH TOWN AND CONCRETE CONTRACTOR TO COMPLETE REMOVALS.

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# **TOWN OF WESTLOCK**

SPIRIT CENTRE PARKING LOT CIVIL REMOVALS

DRAWN A.B.E SCALE 1:500	DESIGNED	NED R.R., M.A	JOB	5454-035-00
DATE MANY 2024 DRAWING CO.4	DRAWN	N A.B.E	SCALE	1:500
DATE MAY 2024 DRAWING C1.1	DATE	MAY 2024	DRAWING	C1.1



### NOTES:

- FOR INFORMATION REGARDING GENERAL NOTES,
   UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE
   LEGEND AND ABBREVIATIONS DRAWINGS.
- ALL BOLD ITEMS INDICATE WORK TO BE DONE AND ALL LIGHT ITEMS INDICATE EXISTING CONDITIONS.
- 3. LOCATION OF EXISTING CONDITIONS ARE APPROXIMATE ONLY AND SHALL BE FIELD CONFIRMED PRIOR TO CONSTRUCTION.
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  1-800-242-3447 AT LEAST THREE (3) WORKING DAYS
  PRIOR TO BEGINNING ANY EXCAVATION OR REMOVALS.
- 5. THE CONTRACTOR IS RESPONSIBLE COORDINATING UTILITY LINE CROSSINGS WITH UTILITY COMPANIES.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE BARRICADES, CONSTRUCTION SIGNAGE, TRAFFIC CONTROL, AND FLAG PERSONS.
- 7. LOCATE AND PROTECT STORM SEWER PIPE AND CATCH BASINS DURING SUBGRADE AND BASE WORK.
- 8. ALL EXISTING TREES TO BE PROTECTED FROM DAMAGE DURING THE CONSTRUCTION PROCESS.
- 9. CONCRETE PREPARATION TO BE COMPLETED BY GRADING CONTRACTOR.
- 10. LANDSCAPING AND CONCRETE WORKS TO BE COMPLETED BY OTHERS.
- 11. GRADE AROUND SIDEWALK AND CURBS TO PREVENT PONDING
- 12. COORDINATE WITH TOWN TO ALLOW CONCRETE CONTRACTOR TO COMPLETE CONCRETE WORK IN-BETWEEN BASE WORK AND PAVING WORK.
- 13. ELECTRICAL WORKS TO BE COMPLETED BY OTHERS.

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ſ	1	24-05-15	FOR QUOTATION
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- 1			-







# TOWN OF WESTLOCK

SPIRIT CENTRE PARKING LOT CIVIL GRADING PLAN

DESIGNED	R.R., M.A	JOB	5454-035-00
DRAWN	A.B.E	SCALE	1:500
DATE	MAY 2024	DRAWING	C1.2

# NOTES:

- BASE COURSE AND HOT MIX ASPHALT SHALL CONFORM
   TO ALBERTA TRANSPORTATION (AT) STANDARDS.
- 2. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

110mm	TYPE AT-M1 HOT MIX ASPHALT
300mm	BASE GRANULAR (AT-DES 2, CLASS 20)
300mm	SUBGRADE PREPARATION
	PARKING LOT PAVEMENT STRUCTURE  NTS

1	24-05-15	FOR QUOTATION
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PERMIT TO PRACTICE MPE, a division of Englobe Corp.		
Signature APEGA ID		
Date	MAY 15, 2024	
PERMIT NUMBER: P 7841		
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)		





# TOWN OF WESTLOCK

SPIRIT CENTRE PARKING LOT CIVIL PARKING LOT STRUCTURE DETAIL

DESIGNED	R.R., M.A	JOB	5454-035-00
DRAWN	A.B.E	SCALE	NTS
DATE	MAY 2024	DRAWING	C2.1