

SUMMARY OF APPROXIMATE QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNITS	SCHEDULE I		SCHEDULE II		SCHEDULE III	
			ESTIMATE	AS-BUILT	ESTIMATE	AS-BUILT	ESTIMATE	AS-BUILT
GP-105a	MOBILIZATION	LS	1	-	1	-	1	-
P-101a	ASPHALT PAVEMENT REMOVAL (COMPLETE)	SY	5,900	-	6,700	-	-	-
P-101b	ASPHALT PAVEMENT REMOVAL (PARTIAL - 2-INCH BUTT-JOINT)	SY	190	-	185	-	-	-
P-101c	CONCRETE REMOVAL (COMPLETE - PAVEMENT, SIDEWALK, PAN, CURB, AND GUTTER)	SY	400	-	-	-	-	-
P-101d	REMOVE AND RELOCATE CARD READER AND GATE ARM	EA	1	-	-	-	-	-
P-101e	REMOVE AND RELOCATE TICKET DISPENSER AND GATE ARM	EA	2	-	-	-	-	-
P-101f	REMOVE AND RELOCATE GATE ARM	EA	1	-	-	-	-	-
P-101g	CRACK SEALING	LF	400	-	-	-	-	-
P-152a	UNCLASSIFIED EXCAVATION	CY	1,600	-	1,250	-	-	-
P-152b	OVEREXCAVATION	CY	320	-	250	-	-	-
P-152c	SUBGRADE PREPARATION (8-INCH)	SY	6,670	-	6,700	-	-	-
P-156a	EROSION CONTROL	LS	1	-	-	-	-	-
P-403a	BITUMINOUS PAVING COURSE (3/4-INCH MIX, 4-INCH THICKNESS)	TON	1,550	-	1,660	-	-	-
P-603a	BITUMINOUS TACK COAT	GAL	950	-	1,000	-	-	-
P-608a	EMULSIFIED ASPHALT SEAL COAT	SY	3,560	-	-	-	-	-
P-610a	CURB, GUTTER, AND PAN	LF	875	-	-	-	-	-
P-610b	CONCRETE SIDEWALK	LF	225	-	-	-	-	-
P-610c	PORTLAND CEMENT CONCRETE PAVEMENT (6-INCHES)	SY	220	-	-	-	-	-
F-162a	PARKING LOT FENCE (STEEL)	LF	300	-	-	-	-	-
F-162b	PARKING LOT FENCE (VINYL)	LF	460	-	-	-	-	-
F-162c	REMOVABLE PARKING LOT FENCE (STEEL)	LF	420	-	-	-	-	-
T-901a	SODDING	SY	50	-	-	-	-	-
T-901b	TOPSOIL PLACEMENT	CY	20	-	-	-	-	-
L-108a	INSTALL 1/2 #12 AWG, 600V, XHHW WIRE	LF	6,500	-	-	-	-	-
L-108b	INSTALL 1/2 #10 AWG, 600V, XHHW WIRE	LF	4,000	-	-	-	-	-
L-108c	INSTALL 1/2 #4 AWG, 600V, XHHW WIRE	LF	2,250	-	-	-	-	-
L-110a	INSTALL 2-1" PVC CONDUITS, CONCRETE ENCASED	LF	1,500	-	-	-	-	-
L-110b	INSTALL 2-1" PVC CONDUITS IN EXISTING PAVEMENT, CONCRETE ENCASED	LF	100	-	-	-	-	-
L-110c	INSTALL 3-3" PVC CONDUITS, CONCRETE ENCASED	LF	425	-	-	-	-	-
L-110d	INSTALL 1-2" PVC CONDUITS, IN EXISTING PAVEMENT, CONCRETE ENCASED	LF	80	-	-	-	-	-
L-110e	INSTALL 1-2" PVC CONDUITS, DIRECT EARTH BURIED	LF	1,250	-	-	-	-	-
L-110f	INSTALL 1-1" PVC CONDUITS, DIRECT EARTH BURIED	LF	300	-	-	-	-	-
L-150a	REMOVE EXISTING FIXTURE FROM LIGHT POLE AND REPLACE WITH NEW LED FIXTURE	EA	24	-	-	-	-	-
L-150b	REMOVE EXISTING LIGHT POLE FOUNDATION AND INSTALL EXISTING LIGHT POLE ON NEW FOUNDATION	EA	1	-	-	-	-	-
WYDOT-201a	CLEARING AND GRUBBING	AC	0.1	-	-	-	-	-
WYDOT-301a	CRUSHED AGGREGATE BASE COURSE (6-INCH)	CY	1,165	-	1,170	-	-	-
WYDOT-603a	18" RCP (TYPE III)	LF	20	-	300	-	-	-
WYDOT-625a	INSTALL TYPE M1 AREA STORM INLET	EA	1	-	2	-	-	-
WYDOT-625b	CONNECT TO EXISTING TYPE M1 AREA STORM INLET	EA	-	-	1	-	-	-
WYDOT-625c	MODIFY EXISTING TYPE M1 AREA STORM INLET TO STREET RATED STORM MANHOLE	EA	1	-	-	-	-	-
WYDOT-625d	INSTALL NEW WYDOT TYPE A MANHOLE (4-FT DIAMETER)	EA	-	-	1	-	-	-
WYDOT-702a	OVERHEAD SIGN STRUCTURE	LS	1	-	-	-	-	-
WYDOT-702b	REMOVE AND RELOCATE EXISTING SIGN	EA	4	-	-	-	-	-
WYDOT-702c	INSTALL NEW PARKING LOT SIGNAGE WITH POST (1-SIGN)	EA	23	-	-	-	-	-
WYDOT-702d	INSTALL NEW PARKING LOT SIGNAGE WITH POST (2-SIGN)	EA	4	-	-	-	-	-
WYDOT-809a	PAVEMENT MARKINGS	SF	3,250	-	2,150	-	-	-
WYDOT-809b	PAVEMENT MARKINGS (BLACK-OUT)	SF	200	-	-	-	-	-
02 43 00a	REMOVE AND RELOCATE EXISTING TOLL BOOTH	LS	1	-	-	-	-	-
02 43 00b	EXTEND POWER FEED TO RELOCATED TOLL BOOTH	LS	1	-	-	-	-	-
02 43 00c	CONSTRUCT NEW FOUNDATION FOR RELOCATED TOLL BOOTH	LS	1	-	-	-	-	-
CPR-100a	REMOVE FIBER OPTICS LINE	LF	85	-	-	-	-	-
CPR-100b	INSTALL FIBER OPTIC CABLE	LF	2,500	-	-	-	-	-
CPR-100c	INSTALL NEW CARD READER AND GATE ARM	EA	1	-	-	-	-	-
CPR-100d	INSTALL SECURITY CAMERA SYSTEM AND APPURTENANCES	LS	1	-	-	-	-	-
CPR-200a	DISCONNECT AND CAP WATER SERVICE LINE	LS	1	-	-	-	-	-
CPR-200b	INSTALL AND PROVIDE WATER SERVICE	LS	1	-	-	-	-	-
CPR-300a	DISCONNECT AND CAP SANITARY SERVICE LINE	LS	1	-	-	-	-	-
CPR-300b	4" SDR-35 SANITARY SEWER SERVICE (DIRECTIONAL BORING)	LF	215	-	-	-	-	-
DIV-26a	INSTALL POWER FRAME WITH EQUIPMENT, COMPLETE	LS	1	-	-	-	-	-
DIV-26b	INSTALL TRANSFORMER AT RELOCATED TOLL BOOTH	LS	1	-	-	-	-	-
DIV-26c	INSTALL WEATHERPROOF DUPLEX RECEPTACLE ON FENCE	EA	9	-	-	-	-	-
DIV-26d	INSTALL AUTOMATIC TRANSFER SWITCH	LS	1	-	-	-	-	-
DIV-26e	INSTALL GENERATOR	LS	-	-	-	-	1	-
DIV-26f	INSTALL HANDHOLE	EA	6	-	-	-	-	-

GENERAL NOTES

- TWO WEEKS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SURVEY VERIFYING EXISTING ELEVATIONS. THE SURVEY SHALL BE PERFORMED USING SPECIFIED PROJECT CONTROL AND PROVIDED TO THE ENGINEER IN ELECTRONIC FORMAT THAT IS ACCEPTABLE TO THE ENGINEER. THIS SURVEY WILL BE USED TO DETERMINE IF ANY MODIFICATIONS TO DESIGN GRADES ARE REQUIRED. THROUGHOUT THE PROJECT, ANY DISCREPANCIES IN EXISTING CONDITIONS SHALL BE IDENTIFIED TO THE ENGINEER 2 WEEKS PRIOR TO CONSTRUCTION. THIS SURVEY WILL BE INCIDENTAL TO BID ITEM GP-105a. PRE-CONSTRUCTION SURVEY SHALL BE PERFORMED BY A STATE LICENSED LAND SURVEYOR. SEE SECTION 50 OF THE CONTRACT DOCUMENTS FOR ADDITIONAL SURVEY INFORMATION.
- THE CONTRACTOR SHALL PROVIDE MATERIAL SUBMITTALS FOR THE ENGINEER'S APPROVAL AT LEAST SEVEN (7) DAYS PRIOR TO ORDERING.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MINIMIZE DISTURBANCES TO ALL CONSTRUCTION AREAS AND ACCESS ROUTES. THIS INCLUDES EQUIPMENT AND VEHICULAR RUTS CREATED IN ANY PAVEMENTS, ANY HAUL/ACCESS ROADS, OR ANY INFIELD AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR, SAFETY, ANY OBSTRUCTIONS TO VEHICLE TRAFFIC, AND ANY DAMAGE TO EXISTING FACILITIES OR ROADS. REPAIRS SHALL BE MADE IN A TIMELY MANNER AT NO ADDITIONAL COST TO THE SPONSOR AND TO THE SATISFACTION OF THE ENGINEER.
- PRELIMINARY PERMITTING INFORMATION WILL BE SUBMITTED BY THE ENGINEER TO NATRONA COUNTY PRIOR TO AWARD OF CONTRACT. SPECIFIC ITEMS THAT WILL NEED TO BE COMPLETED BY THE CONTRACTOR INCLUDE BUT ARE NOT LIMITED TO SUPPLYING NECESSARY BONDING, PAYMENT OF ALL FEES, REVIEW OF ALL CALCULATIONS AND ASSUMPTIONS MADE BY THE ENGINEER PRIOR TO AWARD. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL NECESSARY PERMITS HAVE BEEN OBTAINED PRIOR TO START OF WORK. NECESSARY PERMITS INCLUDE, BUT ARE NOT LIMITED TO, A NPDES STORMWATER AND EROSION CONTROL PERMIT FROM DEQ, A SEPTIC PERMIT FROM THE HEALTH DEPARTMENT, A SANITARY AND WATER PERMIT FROM NATRONA COUNTY AND A FUGITIVE DUST PERMIT IF NECESSARY.
- ALL AREAS OUTSIDE OF THE PROJECT CONSTRUCTION LIMITS THAT ARE DISTURBED BY CONTRACTOR, SHALL BE RESTORED WITH MATERIALS AND CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THE APPLICABLE SPECIFICATIONS SHALL APPLY AS DETERMINED BY THE ENGINEER.
- THE PROJECT PAY ITEMS PROVIDED ARE TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THE CONTRACT DOCUMENTS. ALL WORK NOT IDENTIFIED WITH A SPECIFIC PAY ITEM IS TO BE CONSIDERED REQUIRED WORK TO COMPLETE THE PROJECT, AND IS TO BE INCIDENTAL TO THE COST OF PROJECT PAY ITEMS PROVIDED.
- ALL WASTE MATERIALS SHALL BE REMOVED FROM THE AIRPORT PROPERTY AT NO COST TO THE SPONSOR UNLESS OTHERWISE DIRECTED BY THE SPONSOR.
- FOURTEEN (14) DAYS PRIOR TO THE BEGINNING OF WORK, THE CONTRACTOR SHALL SUBMIT A QUALITY CONTROL PLAN WHICH INCLUDES A WORK SCHEDULE AND PROPOSED CONSTRUCTION METHODS CONSISTENT WITH THE PHASING PLAN STATED IN THE DESIGN.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES WITHIN PROJECT LIMITS, INCLUDING STAGING AREAS AND ALL CONSTRUCTION HAUL ROUTES. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES. REPAIRS DEEMED NECESSARY BY THE ENGINEER WILL BE COMPLETED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE SPONSOR. THIS SHALL INCLUDE ANY NECESSARY POT-HOLING.
- BEFORE ESTABLISHING SITE ACCESS AND HAUL ROUTES, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER. WHEN POSSIBLE, ACCESS/HAUL ROUTES SHALL UTILIZE EXISTING ROADS. THE CONTRACTOR SHALL MAINTAIN AIRPORT SECURITY AT ALL TIMES.
- THIS PROJECT WILL GENERATE QUANTITIES OF ASPHALT MILLINGS. THE CONTRACTOR SHALL COORDINATE WITH THE SPONSOR AND/OR THE ENGINEER FOR PLACEMENT LOCATIONS. THE MILLINGS WILL BE PLACED AND ROLLED IN ON-SITE LOCATIONS DESIGNATED BY THE SPONSOR AND/OR THE ENGINEER IN ACCORDANCE WITH ITEM P-140. THE PLACEMENT OF MILLINGS SHALL BE CONSIDERED INCIDENTAL TO ITEMS P-140a. ALL MILLINGS PLACED WILL RECEIVE A TACK COAT APPLICATION IN ACCORDANCE WITH P-603.
- THE CONTRACTOR SHALL HAVE A MINIMUM OF ONE (1) CURRENT COPY OF THE APPROVED PLANS (INCLUDING ANY CHANGE ORDERS, SUPPLEMENTAL AGREEMENTS, FIELD DIRECTIVES, ETC.), ONE (1) CURRENT COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB, ON SITE AT ALL TIMES.
- THE CONTRACTOR IS REQUIRED TO OBTAIN A HYDRANT USE PERMIT FROM THE AIRPORT ADMINISTRATION OFFICE. THE PERMIT WILL REQUIRE A \$1,500 REFUNDABLE DEPOSIT THAT WILL BE REFUNDED UPON COMPLETION OF THE PROJECT AND/OR THE RETURN OF ALL EQUIPMENT UNDAMAGED. ALL CONSTRUCTION PERSONNEL TO BE OPERATING HYDRANTS WILL BE REQUIRED TO TAKE A HYDRANT CLASS. THE HYDRANT METER WILL BE OBTAINED FROM THE AIRPORT AND ALL READINGS WILL BE TAKEN BY THE AIRPORT. IF THE AIRPORT HYDRANT METER DOES NOT PROVIDE ADEQUATE CAPACITY, A LARGER METER MAY BE OBTAINED FROM THE CITY OF CASPER (ADDITIONAL COSTS APPLY). ALL RECEIVING VEHICLES MUST HAVE OPEN AIR GAP BACKFLOW PREVENTION, OR THERE MUST BE A REDUCED PRESSURE BACKFLOW PREVENTER IN LINE. THE AIRPORT SHALL DETERMINE WHAT HYDRANTS ARE USED. WATER USE WILL BE BILLED AT \$3.10/1,000 GALLONS. THE CONTRACTOR WILL BE CHARGED FOR ANY DAMAGE TO WATER FACILITIES CAUSED BY IMPROPER USE.

NOTES:

- ALL STATED QUANTITIES ARE CONSIDERED APPROXIMATE. ACTUAL QUANTITIES WILL BE DETERMINED BY THE ENGINEER FROM WORK IN-PLACE.
- ACTUAL RATES OF APPLICATION WILL BE DETERMINED BY THE ENGINEER.
- THE PROJECT PAY ITEMS PROVIDED ARE TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THE CONTRACT DOCUMENTS. ALL WORK NOT IDENTIFIED WITH A SPECIFIC PAY ITEM IS TO BE CONSIDERED REQUIRED WORK TO COMPLETE THE PROJECT, AND IS TO BE INCIDENTAL TO THE COST OF PROJECT PAY ITEMS PROVIDED.
- ALL PAVEMENT REMOVAL SHALL BE MEASURED AND PAID TO NEAT LINE DIMENSIONS.
- IF THE CONTRACTOR CHOOSES TO OVERBUILD PAVEMENT LAYERS BEYOND THE DIMENSIONS SHOWN ON THE PLANS FOR CONSTRUCTABILITY, NO PAYMENT WILL BE MADE FOR THIS ADDITIONAL MATERIAL.
- PIPE LENGTHS SHOWN ON PLANS ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- THE FOLLOWING RATES WERE USED TO CALCULATE ESTIMATED QUANTITIES:
 - BITUMINOUS PAVEMENT COURSE AT THE WEIGHT OF 150 LBS PER CUBIC FOOT.
 - ASPHALT ROTOMILLING IS BASED ON SQUARE YARD REGARDLESS OF ASPHALT DEPTH.
 - FOR OVERLAY PAVEMENT BITUMINOUS TACK COAT AT 0.15 GALLONS PER SQUARE YARD PER LIFT (UNDILUTED).

UTILITY NOTES

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
- IF DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE RESIDENT ENGINEER IMMEDIATELY.
- ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- THE CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF THE WYOMING PERMIT FOR STORM WATER DISCHARGE, THE STORM WATER MANAGEMENT PLAN, THE EROSION CONTROL PLAN, AND ALL REQUIREMENTS OF THE LOCAL DRAINAGE AUTHORITY.
- ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREA IS STABILIZED WITH HARD SURFACE OR LANDSCAPING.

INDEX OF DRAWINGS

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1	G001	COVER SHEET
2	G002	INDEX OF DRAWINGS, SUMMARY OF APPROXIMATE QUANTITIES AND GENERAL NOTES
3	G004	SURVEY CONTROL PLAN
4	G005	CONSTRUCTION SAFETY DRAWING - OVERALL PHASING PLAN
5	G006	CONSTRUCTION SAFETY DRAWING - PHASE 1 AND 1A
6	G007	CONSTRUCTION SAFETY DRAWING - PHASE 2
7	G008	CONSTRUCTION SAFETY DRAWING - PHASE 3
8	G009	CONSTRUCTION SAFETY DRAWING - PHASE 4
9	G010	CONSTRUCTION SAFETY DRAWING - PHASE 5 AND 6
10	G011	BORING LOG
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12	C101	DEMOLITION PLAN
13	C200	GEOMETRIC LAYOUT PLAN
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15	C202	GEOMETRIC LAYOUT PLAN
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17	C301	GRADING PLAN
18	C350	SPOT ELEVATION PLAN
19	C351	SPOT ELEVATION PLAN

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21	C450	DRAIN LINE DETAILS
22	C500	TYPICAL SECTIONS AND CURB & GUTTER DETAILS
23	C600	UTILITY LAYOUT PLAN
24	C700	PAVEMENT MARKING PLAN
25	C701	PAVEMENT MARKING PLAN
26	C750	PAVEMENT MARKING DETAILS
27	C800	FENCE LAYOUT PLAN
28	C850	PARKING LOT SIGN DETAILS
29	C851	PARKING LOT SIGN DETAILS
30	C852	PARKING LOT SIGN DETAILS
31	C900	EROSION CONTROL PLAN
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33	C950	EROSION CONTROL DETAILS
34	E100	ELECTRICAL LAYOUT PLAN
35	E200	ELECTRICAL DETAILS
36	E201	ELECTRICAL DETAILS
37	S100	PARKING LOT SIGN

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000-CPR-1000-14-03-0002-0001.dwg
Feb 22, 2019 - 8:30am
fernando.vale@casper



DES: D.W.C.	ISSUE RECORD			
DR: F.V.	NO.	BY	DATE	DESCRIPTION
CH: C.L.G.	1	M.J.L.	2/22/19	ISSUED FOR FINAL REVIEW
APP: M.J.L.				

TERMINAL PARKING LOT
REHABILITATION
PHASE 1

INDEX OF DRAWINGS, SUMMARY
OF APPROXIMATE QUANTITIES

PROJ. NO. ACP68BC	JVIATION PROJ. NO. LOC-FY19	DATE: 2/22/19
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SHEET NAME

G002

SHEET NO.

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