Item: 503 - Cofferdams and Excavation Bracing

Units: LUMP

LUMP

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd. SHEET ___ OF ___ SHEETS
SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020
SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020

Item: 503- Unclassified Excavation, As Per Plan

Units: LUMP

LUMP

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS
SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020
SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020

ITEM: 504 - Sheet Piling Left in Place (Minimum Section Modulus of 30 Cubic Inches Per Foot of Wall) UNITS: SF

Total Area = (9')(135') = 1215 ft²

122 SF

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME OLD ROCKSIDE RD SHEET ___ OF ___ SHEETS

SUBJECT ESTIMATED QUANTITIES PREPARED BY KMA DATE 3-14-21

SCALE ___ CHECKED BY JAA DATE 3/19/2021

Item: 509 - Epoxy Coated Reinforcing Steel, As Per Plan

Units: LB

= 8206 + 2438 = 10644lb

10,644lb

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS
SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020
SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020

Item: 511 – Class QC1 Concrete with QC/QA, Retaining/wing wall Including Footing, As Per Plan — Units: CY

$$= [(1'-6")(3'-0") + (1'-6")(4'-6") + (2'-6")(1'-9")](92'-0") + \left[\left(\frac{(4'-5") + (3'-3")}{2}\right)(23'-0") + \left(\frac{(4'-2\tfrac{1}{2}") + (3'-3")}{2}\right)(25'-0") + \left(\frac{(3'-3") + (2'-4")}{2}\right)(25'-0") + \left(\frac{(2'-4") + (1'-10")}{2}\right)(19'-0")\right] \cdot (1'-4")$$

$$= 1825\,CF \cdot \frac{1\,CY}{27\,CF} = 68\,CY$$

68 CY

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS
SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020
SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020

Item: 511 - Class QC2 Misc.: Moment Slab with QC/QA, As Per Plan

Units: CY

$= (33+38 - 33+36.22)'(7'-10")(1'-2") + (10'-0")(7'-10")\left(\frac{(1'-2")+(1'-0")}{2}\right) +$

$(34+05.17 - 33+48)'(7'-10")(1'-0") = 548\ CF \cdot \frac{1\ CY}{27\ CF}$

$= 21\ CY$

21 CY

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 570 30 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS

SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020

SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020

Item: 511 - Concrete Misc.: Architectural Treatment

Units: SF

$$= \left(\frac{(4'-5") + (3'-3")}{2}\right)(23'-0") + \left(\frac{(4'-2\tfrac{1}{2}") + (3'-3")}{2}\right)(25'-0") + \left(\frac{(3'-3") + (2'-4")}{2}\right)(25'-0")$$

$$+ \left(\frac{(2'-4") + (1'-10")}{2}\right)(19'-0") + (2)(20SF) + (2'-9") + (1'-2") + (1'-8")(2)(6'-2")$$

$$= 543SF$$

543 SF

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS

SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020

SCALE Ret Wall and BM Slab CHECKED BY ___ DATE ___

Item: 512 - Sealing of Concrete Surfaces (Non-Epoxy)

Units: SY

$= (6'-6'')(69'-0'') = 448.5\ SF \cdot \frac{1\ SY}{9\ SF} = 50\ SY$

50 SY

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS
SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020
SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020

Item: 512 - Type 2 Waterproofing

Units: SY

$= (3'\text{-}0")(605.96 - 601.5) = 13.4\,SF \cdot \frac{1\,SY}{9\,SF} = 2\,SY$

2 SY

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS
SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020
SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020

Item: 512 - Type A Waterproofing

Units: SY

$$= [23'-0"]\left(\frac{(4'-5")+(3'-3")}{2}\right) + (25'-0")\left(\frac{(4'-2\frac{1}{2}")+(3'-3")}{2}\right) + (25'-0")\left(\frac{(3'-3")+(2'-4")}{2}\right)$$

$$+ (19'-0")\left(\frac{(2'-4")+(1'-10")}{2}\right) + (0'-3")(92'-0") = 314\,SF \cdot \frac{1\,SY}{9\,SF} = 35\,SY$$

35SY

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS

SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020

SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020

Item: 512 - Type B Water proofing

Units: SY

$= (3'\text{-}0'')[(604.94' - 601.5') + (604.09' - 601.5')] = 18.1SF = \frac{1SY}{9SF} = 2SY$

2 SY

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS
SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020
SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020

Item: Special - Sealing: Elastomeric Protective and Decorative Concrete Coating

Units: SY

$= (4" + (1'-4") + 4")(62'-2") + (1'-0")(50'-4") + (10'-0")\left(\frac{(1'-2") + (1'-0")}{2}\right)$

$+ (6'-10")(1'-2") = 194\ SF \cdot \frac{1\ SY}{9\ SF} = 22\ SY$

22SY

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS

SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020

SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020

Item: 516 - ½" Preformed Expansion Joint Filler

Units: SF

$$= (1'-10")(1'-2") + \left[\frac{(1'-2")+(1'-0")}{2}\right](10'-0") + (57'-2")(1'-0") = 71SF$$

71 SF

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS
SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020
SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020

Item: 516 - 1" Preformed Expansion Joint Filler, As Per Plan

Units: SF

$= (1'-4")(605.96' - 601.5') = 6\,SF$

6 SF

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS

SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020

SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020

Item: 517 - Railing (Concrete Parapet with Twin Steel Tube Railing), As Per Plan

Units: FT

= 69 ft

69. ft

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS
SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020
SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020

Item: 518 - Porous Backfill with Geotextile Fabric, As Per Plan

Units: CY

$$= \left[\left[\frac{(4'-5") + (3'-3")}{2}\right](23'-0") + \left[\frac{(4'-2\tfrac{1}{2}") + (3'-3")}{2}\right](25'-0") + \left[\frac{(3'-3") + (2'-4")}{2}\right](\text{illegible})$$

$$+ \left[\frac{(2'-4") + (1'-10")}{2}\right](19'-0")\Big](2'-0") + (5")(92'-0")(2'-0") = 659\,CF$$

$$= 659\,CF \cdot \frac{1\,CY}{27\,CF} = 25\,CY$$

25 CY

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS
SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020
SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020

Item: 518 - 6" Perforated Corrugated Plastic Pipe

Units: FT

=(23'-0")+(25'-0")+(25'-0")+(19'-0")= 92ft

92ft

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS
SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020
SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020

Item: Special – Structures: Protection of Facilities

Units: LUMP

LUMP

BURGESS & NIPLE COMPUTATION SHEET

JOB NO. 57030 JOB NAME Old Rockside Rd SHEET ___ OF ___ SHEETS
SUBJECT Estimated Quantities PREPARED BY DBH DATE 10/1/2020
SCALE Ret Wall and BM Slab CHECKED BY KMA DATE 10/20/2020