1. REMOVALS

A.) UTILIZE PORTIONS OF SPECIFIC REM'D., APP → $500/CY

(6' HT x 1.5' W x 6' L (REM'D.))/27 = 2 CY

FOOTER: (2' x 2' x 5' L)/27 = 1 CY

So, 3 CY x $500/CY = $1,500

B.) FOR LANDSCAPE BLOCKS, PER ODOT, REMOVALS & REPLACEMENT HANDLED SEPARATELY WITH R/W NEGOTIATIONS.

NA

C.) SMALL TREES, BUSHES: (3) SM. PINES 6" or less
(1) OTHER TREE/SHRUB - UNDER 12"

USE ITEM (201) SPECIAL - TREE REMOVED, 4"-12" @ $130 EA.

So, $130/EA x 4 = $520

D.) • USE 617.50 AVG. HT. ALONG WW (SEE DIAGRAM/SKETCH)
• EVEN THOUGH SOME EXCAV. FOR WW PREVIOUSLY, CALC. FOR EXCAVATION AND SOME REMOVALS ALONG PIPE

GREEN AREAS ON PLAN: (CONSIDER ALONG 10' LENGTH)

(1) 3.5' x 1.833' = 6.42 SF
(2) 6' x 5.67' = 34.0 SF
(3) 2.7' x 7.5' = 20.3 SF
60.72 SF

AND, USING ITEM 203 - EXCAVATION, APP WE HAVE,

(60.72 SF x 10 FT L)/27 = 23 CY

AND, 23 CY x $15/CY = $345

BY DH DATE 12-3 12-1-19 SUBJECT ASHTON LANE NE RETAIN WALL CALCS SHEET NO. 1 OF 2
CHKD. BY MJD DATE 7-12-21 JOB NO.

OSBORN ENGINEERING CLEVELAND, OHIO

## 2. SHEETING AND BRACING

- CONSIDER SOME SHEETING REQ'D AT 42"ϕ STORM PIPE FOR SUPPORT DURING EXCAVATIONS
- HAND WORK MOST LIKELY NEEDED ALONG PIPE

(2 LABORERS @ $50/HR EA × 8 HRS TO PLACE) = $800
+ $100 (MISC. EQUIP OR HAND TOOLS) = $100
TOTAL = $900

## 3. REBUILD & INSTALLATION

A.) 4' SECTION OF WALL REBUILT:
CLASS QC1 CONCRETE (COST TO INCL. ANY INCIDENTAL MTR)
SO, (6' × 1.5' × 4')/27 = 1.33 CY (SAY 2 CY)
AND, 2 CY × $850/CY = $1700

B.) 1" PEJF, SAY 10 LF ALONG PERIMETER:
SO, 10 LF × 1.5 FT WIDE = 15 LF × $10/LF = $150

C.) LANDSCAPE BLOCKS OR OTHER PUT BACK IN PLACE:
• PER ODOT COORDINATION W/RW — NA

D.) FROM 1D - USE 23 CY (20 CY FILL + 3 CY TOPSOIL)
ITEM 203 - EMBANKMENT, USE $25/CY
ITEM 653 - TOP SOIL, FURNISHED/PLACED, USE $95/CY
SO, (20 CY × $25/CY) + (3 CY × $95/CY) = $785

THEREFORE, TOTAL FOR NE RETAINING WALL REBUILD + ALL INCIDENTALS

LUMP SUM = $6200

| | | |
|---|---|---|
| BY JJH DATE 12-9-19 | SUBJECT ASHTON LANE NE RETAIN WALL CALCS | SHEET NO. 2 OF 2 |
| CHKD. BY MTD DATE 7-12-21 | | JOB NO. |

OSBORN ENGINEERING — CLEVELAND, OHIO

12-3-19

# ASHTON LANE

0.25833"

NORTHEAST QUADRANT RETAINING WALL

GEN INFO 1/3

NOTES →

BY JAH DATE 12-3-19 SUBJECT ASHTON LANE SHEET NO. 2 OF 3

CHKD. BY MJD DATE 7-12-11 NE RETAINING WALL JOB NO. GEN INFO

OSBORN ENGINEERING CLEVELAND, OHIO

12-4-19

0.2308"

GEN INFO
3/3

NE RETAIN. WALL
REMOVE/REBUILD

ASHTON
LASE