## BORING No. 1

REPORT ON BORINGS

DATE: 2/24/20 SURFACE ELEVATION:

| DEPTH IN FEET | SPOON BLOWS | | SAMPLE NO. | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|
| 1 | 1 | 2 | 1 | FINE DARK BROWN AND BROWN TOPSOIL WITH ORGANICS AND DECAYING VEGETATION INTO FINE SILTY SAND, SOME CLEAN SAND, TRACE FINE TO COARSE GRAVEL (SM) |
| | 1 | 2 | | |
| | WOH | 2 | 2 | |
| | 1 | 2 | | |
| 5 | 2 | 1 | 3 | FINE TO MEDIUM BROWN AND LIGHT BROWN SILTY SAND, SOME CLEAN SAND INTO CLEAN FINE TO MEDIUM SAND, TRACE FINE TO SMALL GRAVEL (SM/SW) |
| | 3 | 6 | | |
| | 5 | 7 | 4 | |
| | 7 | 8 | | |
| | 3 | 5 | 5 | FINE TO COARSE LIGHT BROWN CLEAN SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| 10 | 5 | 5 | | |
| | 5 | 6 | 6 | FINE TO COARSE LIGHT BROWN AND PALE BROWN SAND, TRACE FINE TO SMALL GRAVEL, OCCASIONAL LARGE STONE (SW) |
| | 5 | 6 | | |
| 15 | | | | FINE TO MEDIUM PALE BROWN CLEAN SAND, SOME COARSE SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| | 4 | 6 | 7 | |
| | 5 | 5 | | FINE TO COARSE PALE BROWN SAND, TRACE FINE TO COARSE GRAVEL, SOME SMALL STONE (SW) |
| 20 | | | | |
| | 3 | 5 | 8 | FINE TO MEDUM PALE BROWN SAND, SOME FINE TO LARGE GRAVEL (SW) |
| | 6 | 6 | | |
| 25 | | | | FINE TO COARSE PALE BROWN AND LIGHT BROWN SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| | 6 | 9 | 9 | |
| | 9 | 10 | | |
| 30 | | | | FINE TO MEDIUM LIGHT BROWN SAND, TRACE FINE TO COARSE GRAVEL, OCCASIONAL SMALL STONE (SW) |
| | 6 | 8 | 10 | FINE TO MEDIUM LIGHT BROWN SAND, TRACE FINE TO COARSE GRAVEL, OCCASIONAL SMALL STONE (SW) |
| | 9 | 10 | | |
| 35 | | | | FINE TO MEDIUM LIGHT BROWN AND PALE BROWN SAND, TRACE FINE TO COARSE GRAVEL, OCCASIONAL LARGE STONE (SW) |
| | 5 | 8 | 11 | |
| | 9 | 9 | | |
| 40 | 5 | 7 | 12 | FINE TO MEDUIM PALE BROWN SAND, TRACE FINE GRAVEL (SW) |
| | 6 | 8 | | |

GENERAL NOTES

1) WATER LEVELS AS INDICATED ARE THOSE MEASURED ON THE DATE SHOWN AND ARE NOT NECESSARILY REPRE REPRESENTATIVE OF CONDITIONS AT OTHER LOCATIONS.

2) THE BORING RESULTS REPRESENT SUB-SURFACE CONDITIONS AT THE BORING LOCATION ONLY AND ARE NOT NECESSARILY REPRESENTATIVE OF CONDITIONS AT OTHER LOCATIONS.

NO WATER ENCOUNTERED.

END OF BORING: 40'0"

SOIL BORING (B-1)
PREPARED BY: SLACKE TEST BORING CO.
DATED: 02/24/2020

## BORING No. 2

REPORT ON BORINGS

DATE: 2/24/20 SURFACE ELEVATION:

| DEPTH IN FEET | SPOON BLOWS | | SAMPLE NO. | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|
| 1 | 2 | 1 | 1 | FINE DARK BROWN AND BROWN TOPSOIL WITH ORGANICS AND BROKEN |
| | 2 | 1 | | |
| | 1 | WOH | 2 | ROOTS, SOME FINE SILTY SAND INTO FINE SILTY SAND, TRACE FINE TO SMALL GRAVEL (SM) |
| | 2 | 3 | | |
| 5 | 4 | 5 | 3 | FINE TO MEDIUM BROWN AND LIGHT BROWN SAND, SOME CLEAN SAND TRACE FINE TO SMALL GRAVEL (SM/SW) |
| | 4 | 4 | | |
| | 5 | 5 | 4 | |
| | 5 | 5 | | FINE TO COARSE LIGHT BROWN SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| | 2 | 3 | 5 | |
| 10 | 4 | 5 | | FINE TO COARSE LIGHT BROWN SAND, TRACE FINE TO COARSE GRAVEL (SW) |
| | 4 | 5 | 6 | |
| | 5 | 6 | | FINE TO COARSE PALE BROWN SAND, TRACE FINE TO COARSE GRAVEL (SW) |
| 15 | | | | FINE TO MEDIUM PALE BROWN SAND, TRACE FINE GRAVEL (SW) |
| | 3 | 4 | 7 | |
| | 4 | 6 | | |
| 20 | | | | FINE TO MEDIUM PALE BROWN AND LIGHT BROWN SAND, SOME FINE TO LARGE GRAVEL (SW) |
| | 4 | 5 | 8 | |
| | 6 | 8 | | |
| 25 | | | | FINE TO COARSE LIGHT BROWN SAND, SOME FINE TO SMALL GRAVEL (SW) |
| | 7 | 10 | 9 | |
| | 10 | 11 | | |
| 30 | | | | FINE TO MEDIUM LIGHT BROWN SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| | 6 | 9 | 10 | FINE TO MEDIUM LIGHT BROWN SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| | 9 | 9 | | |
| 35 | | | | FINE TO MEDIUM LIGHT BROWN AND PALE BROWN SAND, SOME FINE TO SMALL GRAVEL (SW) |
| | 7 | 12 | 11 | |
| | 11 | 12 | | |
| 40 | 10 | 11 | 12 | MEDIUM TO FINE PALE BROWN AND LIGHT BROWN SAND, SOME FINE TO SMALL GRAVEL INTO FINE SAND, TRACE FINE GRAVEL (SW/SP) |
| | 10 | 10 | | |

GENERAL NOTES

NO WATER ENCOUNTERED.

END OF BORING: 40'0"

SOIL BORING (B-2)
PREPARED BY: SLACKE TEST BORING CO.
DATED: 02/24/2020

## BORING No. 3

REPORT ON BORINGS

DATE: 2/24/20 SURFACE ELEVATION:

| DEPTH IN FEET | SPOON BLOWS | | SAMPLE NO. | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|
| 1 | 2 | 1 | 1 | FINE DARK BROWN AND BROWN TOPSOIL WITH DECAYING VEGETATION AND FINE SILTY SAND INTO FINE SILTY SAND, TRACE FINE TO SMALL GRAVEL (SM) |
| | 2 | 2 | | |
| | 2 | 4 | 2 | |
| | 3 | 2 | | |
| 5 | 5 | 6 | 3 | FINE TO MEDIUM BROWN AND LIGHT BROWN SILTY SAND, SOME CLEAN SAND INTO FINE TO COARSE CLEAN SAND, SOME FINE TO SMALL GRAVEL (SM/SW) |
| | 6 | 6 | | |
| | 5 | 5 | 4 | |
| | 5 | 6 | | |
| | 3 | 4 | 5 | FINE TO COARSE LIGHT BROWN AND RUST BROWN SAND, SOME FINE TO LARGE GRAVEL, SOME CLAY (SW/CL) |
| 10 | 4 | 5 | | |
| | 3 | 4 | 6 | FINE TO COARSE RUST BROWN AND GRAY CLEAN SAND AND CLAY INTO COARSE TO FINE CLEAN SAND, SOME FINE TO SMALL GRAVEL (SM/SW) |
| | 4 | 4 | | |
| 15 | | | | COARSE TO FINE RUST BROWN SAND, SOME FINE TO SMALL GRAVEL (SW) |
| | 2 | 3 | 7 | FINE TO MEDIUM RUST BROWN AND LIGHT BROWN SAND, TRACE FINE TO COARSE GRAVEL (SW) |
| | 4 | 5 | | |
| 20 | | | | FINE TO MEDIUM LIGHT BROWN SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| | 4 | 5 | 8 | FINE TO COARSE LIGHT BROWN SAND, SOME FINE TO SMAL GRAVEL, OCCASIONAL LARGE STONE (SW) |
| | 6 | 5 | | |
| 25 | | | | FINE TO MEDIUM LIGHT BROWN AND PALE BROWN SAND, TRACE FINE TO COARSE GRAVEL, OCCASIONAL SMALL STONE (SW) |
| | 3 | 5 | 9 | |
| | 5 | 7 | | |
| 30 | | | | FINE TO MEDIUM PALE BROWN SAND, TRACE FINE TO COARSE GRAVEL (SW) |
| | 3 | 5 | 10 | FINE TO MEDIUM PALE BROWN SAND, TRACE FINE TO COARSE GRAVEL (SW) |
| | 7 | 8 | | |
| 35 | | | | FINE LIGHT BROWN SAND, TRACE FINE GRAVEL (SP) WET/MOIST |
| | 4 | 6 | 11 | |
| | 5 | 6 | | |
| 40 | 5 | 8 | 12 | MEDIUM LIGHT BROWN SAND, TRACE FINE GRAVEL (SP) WET |
| | 8 | 8 | | |

GENERAL NOTES

WATER LEVEL: 36.2 FEET

END OF BORING: 40'0"

SOIL BORING (B-3)
PREPARED BY: SLACKE TEST BORING CO.
DATED: 02/24/2020

## BORING No. 4

REPORT ON BORINGS

DATE: 2/24/20 SURFACE ELEVATION:

| DEPTH IN FEET | SPOON BLOWS | | SAMPLE NO. | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|
| 1 | 2 | 1 | 1 | FINE DARK BROWN AND BROWN SILTY SAND AND TOPSOIL WITH ORGANICS INTO |
| | 1 | 2 | | |
| | 1 | WOH | 2 | FINE SILTY SAND AND CLEAN SAND, TRACE FINE TO SMALL GRAVEL (SM) |
| | 2 | 2 | | |
| 5 | 2 | 5 | 3 | FINE TO COARSE BROWN AND RUST BROWN SILTY SAND AND MEDIUM CLEAN SAND INTO FINE |
| | 7 | 8 | | |
| | 6 | 8 | 4 | TO COARSE CLEAN SAND, SOME FINE TO SMALL GRAVEL (SM/SW) |
| | 5 | 6 | | |
| | 4 | 5 | 5 | FINE TO COARSE LIGHT BROWN AND RUST BROWN SAND, SOME FINE TO SMALL GRAVEL (SW) |
| 10 | 5 | 6 | | |
| | 5 | 5 | 6 | FINE TO COARSE PALE BROWN AND RUST BROWN SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| | 6 | 6 | | |
| | | | | COARSE TO FINE PALE BROWN SAND, TRACE FINE TO MEDIUM GRAVEL (SW) |
| 15 | | | | FINE TO MEDIUM PALE BROWN SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| | 5 | 6 | 7 | |
| | 6 | 8 | | |
| | | | | FINE TO MEDIUM LIGHT BROWN SAND, TRACE FINE TO COARSE GRAVEL (SW) |
| 20 | | | | |
| | 5 | 7 | 8 | FINE TO COARSE LIGHT BROWN AND PALE BROWN SAND, SOME FINE TO SMALL GRAVEL (SW) |
| | 7 | 9 | | |
| | | | | FINE TO COARSE LIGHT BROWN AND PALE BROWN SAND, SOME FINE TO SMALL GRAVEL, OCCASIONAL LARGE STONE (SW) |
| 25 | | | | |
| | 6 | 8 | 9 | |
| | 10 | 10 | | |
| | | | | FINE TO MEDIUM LIGHT BROWN SAND, SOME FINE TO SMALL GRAVEL (SW) |
| 30 | | | | |
| | 6 | 9 | 10 | FINE TO MEDIUM LIGHT BROWN SAND, SOME FINE TO SMALL GRAVEL (SW) |
| | 9 | 11 | | |
| 35 | | | | FINE TO MEDIUM LIGHT BROWN AND PALE BROWN CLEAN SAND, TRACE FINE TO COARSE GRAVEL (SW) |
| | 5 | 8 | 11 | |
| | 7 | 10 | | |
| | 7 | 9 | 12 | FINE TO MEDIUM PALE BROWN SAND, TRACE FINE TO COARSE GRAVEL (SW) |
| 40 | 9 | 11 | | |

GENERAL NOTES

END OF BORING: 40'0"

SOIL BORING (B-4)
PREPARED BY: SLACKE TEST BORING CO.
DATED: 02/24/2020

## BORING No. 5

REPORT ON BORINGS

DATE: 2/12/21 SURFACE ELEVATION:

| DEPTH IN FEET | SPOON BLOWS | | SAMPLE NO. | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|
| 1 | 3 | 5 | 1 | FINE TO MEDIUM CLEAN SAND AND SILTY SAND, TRACE FINE TO SMALL GRAVEL (SM/SW) |
| | 6 | 7 | | |
| | 8 | 8 | 2 | |
| | 7 | 5 | | FINE TO MEDIUM LIGHT BROWN CLEAN SAND, TRACE SILTY SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| 5 | 2 | 2 | 3 | |
| | 4 | 5 | | |
| | 4 | 5 | 4 | FINE TO MEDIUM BROWN AND LIGHT BROWN SILTY SAND, TRACE FINE GRAVEL INTO FINE TO MEDIUM CLEAN SAND, TRACE FINE GRAVEL (SM/SW) |
| | 7 | 8 | | |
| | 8 | 8 | 5 | |
| 10 | 7 | 8 | | |
| | 7 | 6 | 6 | FINE TO COARSE RUST BROWN CLEAN SAND, SOME FINE TO SMALL GRAVEL (SW) |
| | 8 | 7 | | |
| | | | | FINE TO MEDIUM PALE BROWN CLEAN SAND, SOME FINE TO SMALL GRAVEL, TRACE LARGE GRAVEL (SW) |
| 15 | | | | |
| | 7 | 7 | 7 | FINE TO MEDIUM PALE BROWN CLEAN SAND, TRACE FINE GRAVEL (SW) |
| | 8 | 8 | | |
| | | | | FINE TO MEDIUM PALE BROWN CLEAN SAND, SOME FINE TO LARGE GRAVEL, SOME CRUSHED GRAVEL (SW) |
| 20 | | | | |
| | 7 | 9 | 8 | |
| | 9 | 12 | | |
| | | | | FINE TO COARSE PALE BROWN CLEAN SAND, SOME FINE TO COARSE GRAVEL (SW) |
| 25 | | | | |
| | 8 | 10 | 9 | |
| | 11 | 14 | | |
| 30 | | | 10 | |

GENERAL NOTES

1) NO TRUE GROUNDWATER LEVEL ENCOUNTERED. THIS CONDITION MAY NOT BE REFLECTIVE OF DAILY OR SEASONAL VARIATIONS IN THE GROUNDWATER LEVEL.

2) THE BORING RESULTS REPRESENT SUB-SURFACE CONDITIONS AT THE BORING LOCATION ONLY AND ARE NOT NECESSARILY REPRESENTATIVE OF CONDITIONS AT OTHER LOCATIONS.

BORING CONTINUED TO 40'0"

REFER TO PAGE 5A OF 9

| DEPTH IN FEET | SPOON BLOWS | | SAMPLE NO. | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|
| 30 | 10 | 12 | 10 | FINE TO COARSE PALE BROWN CLEAN SAND, SOME FINE TO COARSE GRAVEL (SW) |
| | 16 | 17 | | |
| 35 | | | | FINE TO COARSE PALE BROWN SAND, TRACE FINE TO COARSE GRAVEL (SW) |
| | 9 | 9 | 11 | |
| | 12 | 14 | | |
| | 8 | 12 | | |
| 40 | 13 | 16 | 12 | |

GENERAL NOTES

NOTE: SLIGHT MOISTURE AT 39'6" BELOW GRADE.

END OF BORING: 40'0"

SOIL BORING (B-5)
PREPARED BY: SLACKE TEST BORING CO.
DATED: 02/12/2021

## BORING No. 6

REPORT ON BORINGS

DATE: 2/12/21 SURFACE ELEVATION:

| DEPTH IN FEET | SPOON BLOWS | | SAMPLE NO. | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|
| 1 | 5 | 2 | 1 | FINE DARK BROWN AND GRAY TOPSOIL WITH ORGANICS AND FINE SILTY SAND, TRACE FINE TO SMALL GRAVEL, SOME CLEAN SAND (SM) |
| | 2 | 3 | | |
| | 3 | 3 | 2 | |
| | 4 | 5 | | |
| 5 | 2 | 4 | 3 | FINE TO MEDIUM GRAY AND LIGHT BROWN CLEAN SAND AND SILTY SAND, TRACE FINE TO SMALL GRAVEL (SM/SW) |
| | 4 | 6 | | |
| | 4 | 5 | 4 | |
| | 7 | 9 | | |
| | 4 | 5 | 5 | FINE TO MEDIUM LIGHT BROWN AND GRAY CLEAN SAND, TRACE FINE TO SMALL GRAVEL INTO FINE SILTY SAND, TRACE FINE TO SMALL GRAVEL (SW/SM) |
| 10 | 5 | 6 | | |
| | 6 | 6 | 6 | |
| | 6 | 8 | | FINE GRAY AND LIGHT BROWN SILTY SAND, TRACE FINE GRAVEL INTO FINE TO MEDIUM CLEAN SAND, TRACE FINE GRAVEL (SM/SW) |
| 15 | | | | |
| | 6 | 5 | 7 | FINE TO CORSE LIGHT BROWN AND RUST BROWN CLEAN SAND, SOME FINE TO SMALL GRAVEL (SW) |
| | 5 | 6 | | |
| | | | | FINE TO CORSE LIGHT BROWN AND RUST BROWN CLEAN SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| 20 | | | | |
| | 4 | 4 | 8 | FINE TO COARSE LIGHT BROWN CLEAN SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| | 5 | 6 | | |
| | | | | COARSE TO FINE LIGHT BROWN AND RUST BROWN CLEAN SAND, SOME FINE TO SMALL GRAVEL (SW) |
| 25 | | | | |
| | 3 | 4 | 9 | |
| | 8 | 8 | | |
| | | | | MEDIUM TO COARSE LIGHT BROWN AND PALE BROWN CLEAN SAND, TRACE FINE SAND, SOME FINE TO SMALL GRAVEL (SW) |
| 30 | | | | |

GENERAL NOTES

BORING CONTINUED TO 40'0"

REFER TO PAGE 6A OF 8

| DEPTH IN FEET | SPOON BLOWS | | SAMPLE NO. | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|
| 30 | 4 | 7 | 10 | FINE TO COARSE LIGHT BROWN CLEAN SAND, SOME FINE TO SMALL GRAVEL (SW) |
| | 8 | 9 | | |
| 35 | | | | FINE TO COARSE LIGHT BROWN CLEAN SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| | 4 | 8 | 11 | |
| | 12 | 14 | | |
| | 6 | 7 | | "COARSE TO FINE LIGHT BROWN AND PALE BROWN CLEAN SAND INTO FINE SAND, SOME FINE TO SMALL GRAVEL (SW) |
| 40 | 9 | 9 | 12 | |

GENERAL NOTES

NO TRUE GROUNDWATER LEVEL ENCOUNTERED.

END OF BORING: 40'0"

SOIL BORING (B-6)
PREPARED BY: SLACKE TEST BORING CO.
DATED: 02/12/2021

## BORING No. 7

REPORT ON BORINGS

DATE: 2/12/21 SURFACE ELEVATION:

| DEPTH IN FEET | SPOON BLOWS | | SAMPLE NO. | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|
| 1 | 2 | 5 | 1 | FINE TO MEDIUM BROWN CLEAN SAND AND SILTY SAND, SOME FINE TO SMALL GRAVEL, TRACE ORGANICS (SM/SW) |
| | 7 | 7 | | |
| | 7 | 6 | 2 | |
| | 6 | 6 | | FINE TO MEDIUM LIGHT BROWN CLEAN SAND, TRACE FINE TO SMALL GRAVEL, TRACE SILTY SAND (SW) |
| 5 | 2 | 3 | 3 | |
| | 3 | 4 | | |
| | 5 | 5 | 4 | |
| | 3 | 3 | | FINE TO MEDIUM LIGHT BROWN AND GRAY CLEAN SAND, SOME FINE TO SMALL GRAVEL INTO FINE SILTY SAND, SOME FINE TO SMALL GRAVEL (SW/SM) |
| | 3 | 4 | 5 | |
| 10 | 5 | 7 | | |
| | 2 | 4 | 6 | FINE GRAY AND LIGHT BROWN SILTY SAND, TRACE FINE GRAVEL INTO FINE TO MEDIUM CLEAN SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| | 5 | 5 | | |
| 15 | | | | FINE TO COARSE PALE BROWN CLEAN SAND, SOME FINE TO SMALL GRAVEL, TRACE LARGE GRAVEL (SW) |
| | 3 | 3 | 7 | |
| | 3 | 4 | | |
| 20 | | | | FINE TO COARSE PALE BROWN CLEAN SAND, SOME FINE TO SMALL GRAVEL, TRACE LARGE GRAVEL (SW) |
| | 3 | 2 | 8 | FINE TO COARSE PALE BROWN CLEAN SAND, TRACE FINE TO COARSE GRAVEL (SW) |
| | 2 | 2 | | |
| 25 | | | | FINE TO MEDIUM PALE BROWN CLEAN SAND, SOME FINE TO SMALL GRAVEL (SW) |
| | 5 | 5 | 9 | |
| | 7 | 7 | | |
| 30 | | | | FINE TO MEDIUM PALE BROWN CLEAN SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| | 4 | 4 | 10 | FINE TO MEDIUM PALE BROWN CLEAN SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| | 6 | 8 | | |
| 35 | | | | FINE TO MEDIUM PALE BROWN CLEAN SAND, TRACE FINE GRAVEL (SW) |
| | 4 | 7 | 11 | |
| | 7 | 10 | | |
| 40 | 8 | 9 | 12 | FINE TO MEDIUM PALE BROWN CLEAN SAND, TRACE FINE GRAVEL (SW) (MOIST AT 39'6") |
| | 9 | 12 | | |

GENERAL NOTES

BORING CONTINUED TO 40'0"

REFER TO PAGE 7A OF 8

NO TRUE GROUNDWATER LEVEL ENCOUNTERED.

END OF BORING: 40'0"

SOIL BORING (B-7)
PREPARED BY: SLACKE TEST BORING CO.
DATED: 02/12/2021

## BORING No. 8

REPORT ON BORINGS

DATE: 2/12/21 SURFACE ELEVATION:

| DEPTH IN FEET | SPOON BLOWS | | SAMPLE NO. | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|
| 1 | 2 | 3 | 1 | FINE TO MEDIUM BROWN AND GRAY TOPSOIL, SOME ORGANICS, SOME FINE TO MEDIUM SILTY SAND, TRACE FINE TO SMALL GRAVEL INTO FINE SILTY SAND AND CLAN SAND, SOME GRAVEL (SM/SW) |
| | 5 | 4 | | |
| | 4 | 5 | 2 | |
| | 4 | 4 | | |
| 5 | 4 | 4 | 3 | FINE TO MEDIUM GRAY AND BROWN CLEAN SAND AND SILTY SAND INTO MEDIUM TO FINE SAND, TRACE SILT, SOME FINE TO SMALL GRAVEL (SM/SW) |
| | 5 | 6 | | |
| | 4 | 4 | 4 | |
| | 6 | 6 | | |
| | 4 | 4 | 5 | FINE TO COARSE RUST BROWN AND LIGHT BROWN SILTY SAND AND CLEAN SAND, TRACE FINE TO SMALL GRAVEL (SW/SM) |
| 10 | 7 | 10 | | |
| | 8 | 8 | 6 | FINE TO COARSE GRAY AND RUST BROWN SILTY SAND, TRACE FINE TO COARSE GRAVEL INTO FINE TO COARSE CLEAN SAND, SOME FINE TO SMALL GRAVEL (SM/SW) |
| | 10 | 10 | | |
| 15 | | | | FINE TO MEDIUM RUST BROWN AND PALE BROWN CLEAN SAND, TRACE FINE TO SMALL GRAVEL (SW) |
| | 3 | 7 | 7 | |
| | 8 | 10 | | |
| | | | | FINE TO MEDIUM PALE BROWN CLEAN SAND, TRACE FINE TO COARSE GRAVEL, OCCASIONAL LARGE STONE (SW) |
| 20 | | | | |
| | 5 | 6 | 8 | FINE TO COARSE PALE BROWN CLEAN SAND, TRACE FINE TO COARSE GRAVEL (SW) |
| | 8 | 9 | | |
| | | | | FINE TO COARSE PALE BROWN CLEAN SAND, SOME FINE TO SMALL GRAVEL, OCCASIONAL LARGE STONE (SW) |
| 25 | | | | |
| | 5 | 6 | 9 | |
| | 8 | 9 | | FINE TO COARSE PALE BROWN CLEAN SAND, SOME FINE TO SMALL GRAVEL (SW) |
| 30 | | | | FINE TO COARSE PALE BROWN CLEAN SAND, TRACE FINE TO COARSE |
| | 7 | 9 | 10 | FINE TO COARSE PALE BROWN CLEAN SAND, TRACE FINE TO COARSE GRAVEL, OCCASIONAL SMALL STONE (SW) |
| | 10 | 11 | | |
| 35 | | | | FINE TO COARSE PALE BROWN AND LIGHT BROWN CLEAN SAND, SOME FINE TO COARSE GRAVEL (SW) |
| | 5 | 10 | 11 | |
| | 11 | 13 | | |
| | 12 | 12 | | FINE TO COARSE LIGHT BROWN CLEAN SAND, SOME FINE TO SMALL GRAVEL (SW) |
| 40 | 13 | 12 | 12 | |

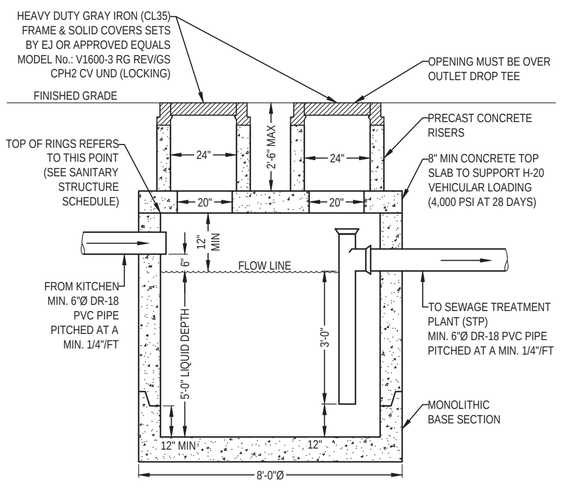
GENERAL NOTES

BORING CONTINUED TO 40'0"

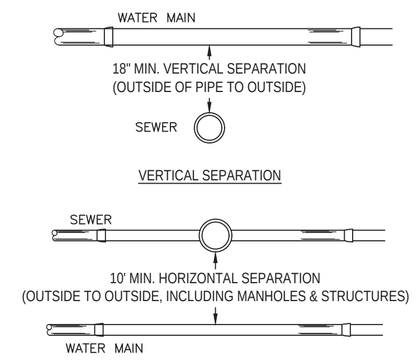
REFER TO PAGE 8A OF 8

END OF BORING: 40'0"

SOIL BORING (B-8)
PREPARED BY: SLACKE TEST BORING CO.
DATED: 02/12/2021

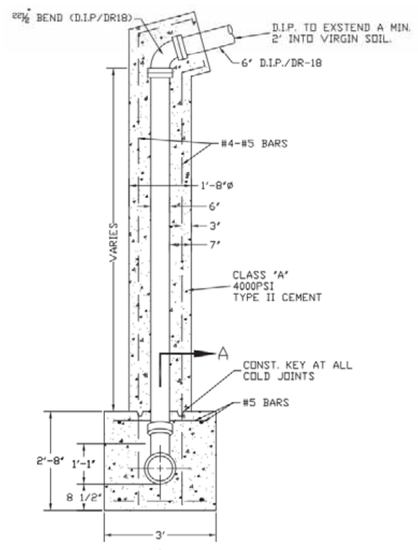



EXTERIOR GREASE TRAP DETAIL
(SCDHS STANDARD DETAIL)
N.T.S.



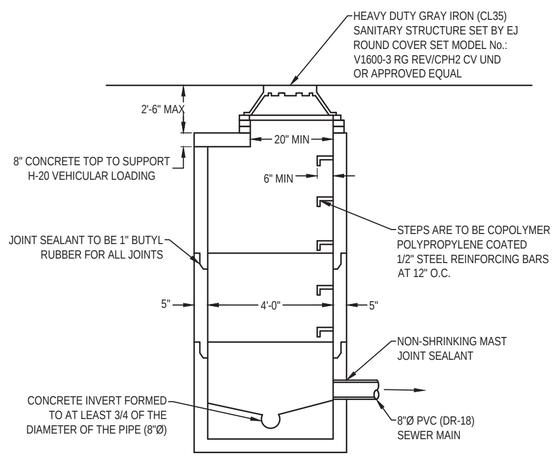

REFER TO SHEET C-010 FOR CROSSING/SEPARATION NOTES.

WATER PIPE / SEWER PIPE CROSSING DETAIL
N.T.S.




SECTION A-A

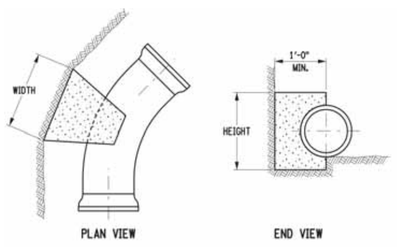
VERTICAL HOUSE CONNECTION ASSEMBLY
8"Ø PVC CAST IN PLACE DETAIL
N.T.S.



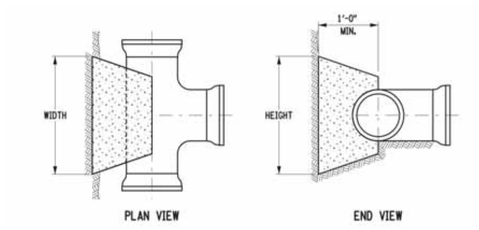

SECTION A-A

NOTES:
1. ALL MANHOLES SECTIONS SHALL CONFORM TO A.S.T.M. C-478 LATEST REVISION STANDARD SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE M.H. SECTIONS.
2. MANHOLE RISER SECTION TO BE FURNISHED IN 1,2,3 OR 4' HEIGHTS, AS REQUIRED.
3. LOADING TO CONFORM TO AASHTO H-20 LOADING
4. ALL CONCRETE IS TO MEET 4000 PSI AT 28 DAY SET.
5. THE MAXIMUM CHANGE IN ELEVATION BETWEEN INLET AND OUTLET INVERT(S) SHALL BE NO GREATER THAN 2 FEET. MIN IS 0.10 FEET.

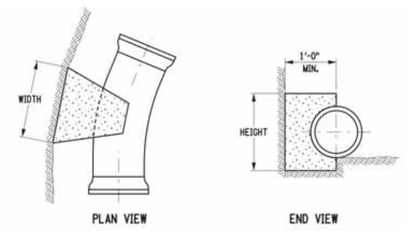
4'Ø SANITARY MANHOLE DETAIL
N.T.S.




| 45° THRUST BLOCK DIMENSIONING | | |
|---|---|---|
| PIPE SIZE | WIDTH (FT-IN) | HEIGHT (FT-IN) |
| 2.5 NPS | 1'-6" | 0'-6" |
| 4 NPS | 2'-0" | 0'-9" |
| 6 NPS | 2'-6" | 1'-3" |
| 8 NPS | 3'-3" | 1'-9" |
| 10 NPS | 4'-0" | 2'-0" |
| 12 NPS | 4'-6" | 2'-3" |



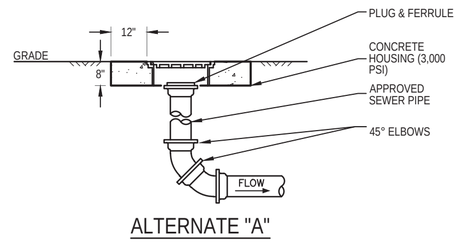

| TEE/DEAD END THRUST BLOCK DIMENSIONING | | |
|---|---|---|
| PIPE SIZE | WIDTH (FT-IN) | HEIGHT (FT-IN) |
| 2.5 NPS | 1'-9" | 0'-9" |
| 4 NPS | 2'-0" | 1'-0" |
| 6 NPS | 3'-0" | 1'-3" |
| 8 NPS | 3'-3" | 2'-0" |
| 10 NPS | 4'-3" | 2'-3" |
| 12 NPS | 5'-3" | 2'-6" |



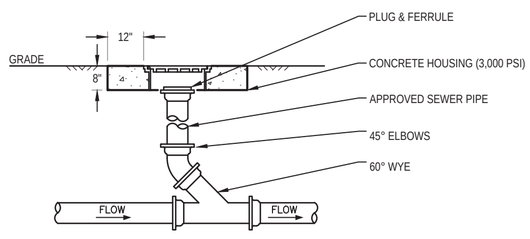

| M | | |
|---|---|---|
| PIPE SIZE | WIDTH (FT-IN) | HEIGHT (FT-IN) |
| 2.5 NPS | 1'-0" | 0'-6" |
| 4 NPS | 1'-3" | 0'-9" |
| 6 NPS | 2'-0" | 0'-9" |
| 8 NPS | 2'-3" | 1'-3" |
| 10 NPS | 3'-0" | 1'-3" |
| 12 NPS | 3'-3" | 1'-9" |

NOTES
1. CONCRETE FOR TRUST BLOCKS SHALL NOT BE ALLOWED TO COVER OR INTERFERE WITH JOINT OR RESTRAINT HARDWARE. PLASTIC SHEETING OR BUILDING FELT MAY BE PLACED OVER PIPE OVER PIPE OR FITTINGS TO PREVENT CONCRETE FROM ADHERING TO SURFACES. CONCRETE FOR THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
2. FOR BENDS, BEARING AREA SHALL BE PARALLEL TO THE EDGE OF THE FITTING AT THE FITTING MIDPOINT.
3. FOR TEES, BEARING AREA SHALL BE PERPENDICULAR TO THE BRANCH (SINGLE LEG) AXIS.
4. THRUST BLOCK SIZES AND MINIMUM RESTRAINED LENGTHS SHOWN ON THIS DETAIL ARE BASED UPON THE FOLLOWING STANDARD CONDITIONS: 1.5 SAFETY FACTOR, 5'-0" - DEPTH OF COVER, 200 PSI - WATER SYSTEM TEST PRESSURE, 14 PSI - SOIL BEARING CAPACITY, 90 LB/CF - SOIL UNIT WEIGHT
FOR INSTALLATIONS NOT MEETING THE CONDITIONS ABOVE, THE CONTRACTOR SHALL SUBMIT CALCULATIONS TO THE ENGINEER FOR APPROVAL OF RESTRAINT LENGTH CHOSEN.
5. THRUST BLOCKS TO BE INSTALLED AT ALL VERTICAL AND HORIZONTAL BENDS

THRUST BLOCK DETAIL
N.T.S.




ALTERNATE "A"




ALTERNATE "B"

NOTE:
1. CLEANOUT(S) LOCATED IN TRAFFIC AREAS SHALL BE PROVIDED WITH TRAFFIC BEARING FRAME AND COVER.
2. ALTERNATE "A" IS FOR BENDS, ALTERNATE "B" IS FOR USE WITH BUILDING EXTENSION/CONNECTION.

TYPICAL CLEAN-OUT DETAIL
NOT TO SCALE
SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES, STANDARDS FOR APPROVAL OF PLANS AND CONSTRUCTION FOR SEWAGE DISPOSAL SYSTEMS FOR OTHER THAN SINGLE-FAMILY RESIDENCES, FIGURE 15, 12/29/17

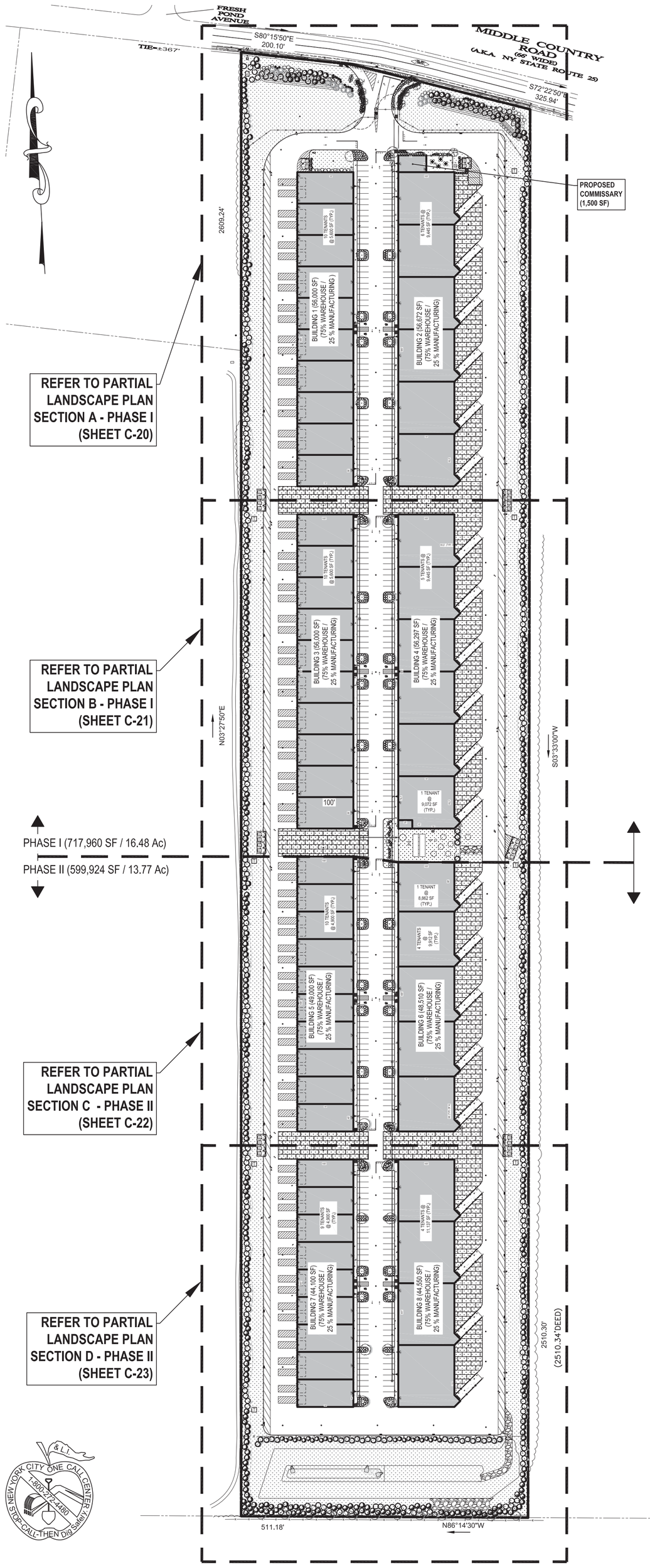
CONTRACTOR SHALL COORDINATE WITH ON-SITE GEOTECHNICAL ENGINEER REGARDING BEDDING FOR PROPOSED SANITARY STRUCTURES

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER OF RECORD FOR REVIEW PRIOR TO CONSTRUCTION FOR ANY DETAIL NOT PROVIDED IN THIS PLAN SET.

SCTM #: 600-116-1-2
SCHDS REF. #: _ _ _ - _ _ - _ _ _ _

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES APPROVAL

| No. | DATE | BY | DESCRIPTION |
|---|---|---|---|
| | | | |
| | | | |
| 6 | 01/24/2022 | LC | MISCEL




GRAPHIC SCALE

120 0 60 120 240 480

( IN FEET )
1 inch = 120 ft.

## PLANT SCHEDULE PHASE 1 (REFER TO SHEETS C-20 & C-21)

| EVERGREEN TREES | QTY | BOTANICAL / COMMON NAME | SIZE | CONTAINER | MATURE HEIGHT | NATIVE |
|---|---|---|---|---|---|---|
| JV | 138 | JUNIPERUS VIRGINIANA / EASTERN RED CEDAR | 5-6` | B+B | 40-60` | YES |
| PG | 131 | PICEA GLAUCA / WHITE SPRUCE | 5-6` | B+B | 40-60` | YES |
| PPG | 15 | PICEA PUNGENS 'GLAUCA' / COLORADO BLUE SPRUCE | 5-6` | B+B | 40-60` | YES |
| PS | 105 | PINUS STROBUS / EASTERN WHITE PINE | 5-6` | B+B | 40-60` | YES |
| TG | 5 | THUJA PLICATA 'GREEN GIANT' / WESTERN RED CEDAR | 5-6` | B+B | 40-60` | YES |
| TOE | 34 | THUJA OCCIDENTALIS 'EMERALD' / EMERALD ARBORVITAE | 5-6` | B+B | 10-15` | YES |
| **ORNAMENTAL TREES** | **QTY** | **BOTANICAL / COMMON NAME** | **SIZE** | **CONTAINER** | **MATURE HEIGHT** | **NATIVE** |
| CFW | 7 | CORNUS FLORIDA 'WHITE' / WHITE FLOWERING DOGWOOD | 2-2 1/2" CAL. | B+B | 20-25` | YES |
| **SHADE TREES** | **QTY** | **BOTANICAL / COMMON NAME** | **SIZE** | **CONTAINER** | **MATURE HEIGHT** | **NATIVE** |
| AR | 12 | ACER RUBRUM / RED MAPLE | 2 1/2-3" CAL. | B+B | 40-60` | YES |
| GTIS | 12 | GLEDITSIA TRIACANTHOS INERMIS 'SKYCOLE' TM / SKYLINE THORNLESS HONEY LOCUST | 2 1/2-3" CAL. | B+B | 40-60` | YES |
| **DECIDUOUS SHRUBS** | **QTY** | **BOTANICAL / COMMON NAME** | **SIZE** | **CONTAINER** | **MATURE HEIGHT** | **NATIVE** |
| AM | 67 | ARONIA MELANOCARPA / LOW SCAPE MOUND ARONIA | 15-18" | 3 GAL. | 1-2` | YES |
| HXH | 7 | HYPERICUM X 'HIDCOTE' / HIDCOTE ST. JOHN'S WORT | 24-30" | 3 GAL. | 1-3` | YES |
| POSW | 13 | PHYSOCARPUS OPULIFOLIUS 'SUMMER WINE' / SUMMER WINE NINEBARK | 24-30" | 3 GAL. | 4-6` | YES |
| VDA | 30 | VIBURNUM DENTATUM 'ARROWWOOD' / ARROWWOOD VIBURNUM | 30-36" | 5 GAL. | 5-11` | YES |
| **EVERGREEN SHRUBS** | **QTY** | **BOTANICAL / COMMON NAME** | **SIZE** | **CONTAINER** | **MATURE HEIGHT** | **NATIVE** |
| AEAA | 3 | AZALEA ENCORE 'AUTUMN AMETHYST' / AUTUMN AMETHYST AZALEA | 30-36" | B+B | 2-3` | YES |
| IGC | 40 | ILEX GLABRA 'COMPACTA' / COMPACT INKBERRY | 24-30" | B+B | 4-6` | YES |
| IGSB | 6 | ILEX GLABRA `STRONG BOX` / STRONGBOX INKBERRY HOLLY | 18-24" | 3 GAL. | 1-3` | YES |
| JHBC | 350 | JUNIPERUS HORIZONTALIS 'BLUE CHIP' / BLUE CHIP JUNIPER | 15-18" SPRD. | 3 GAL. | .5-1.5` | YES |
| VR | 19 | VIBURNUM RHYTIDOPHYLLUM / LEATHERLEAF VIBURNUM | 3-4` | B+B | 5-10` | YES |
| **ORNAMENTAL GRASSES** | **QTY** | **BOTANICAL / COMMON NAME** | **SIZE** | **CONTAINER** | **MATURE HEIGHT** | **NATIVE** |
| CAKF | 2 | CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS | 18-24" | 2 GAL. | 4-6` | YES |
| PAH | 19 | PENNISETUM ALOPECUROIDES 'HAMELN' / HAMELN DWARF FOUNTAIN GRASS | 18-24" | 2 GAL. | 2-3` | YES |
| PAL | 15 | PENNISETUM ALOPECUROIDES / FOUNTAIN GRASS | 30-36" | 3 GAL. | 4-5` | YES |
| PV | 24 | PANICUM VIRGATUM / SWITCH GRASS | 24-30" | 2 GAL. | 2-4` | YES |
| SH | 10 | SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSEED | 18-24" | 2 GAL. | 2-4` | YES |
| **PERENNIALS** | **QTY** | **BOTANICAL / COMMON NAME** | **SIZE** | **CONTAINER** | **MATURE HEIGHT** | **NATIVE** |
| IVR | 39 | IRIS VERSICOLOR / BLUE FLAG | 6-12" | 1 GAL. | 1-3` | YES |
| RFG | 119 | RUDBECKIA FULGIDA 'GOLDSTRUM' / BLACK EYED SUSAN | 12-15" | 1 GAL. | 1-3` | YES |
| RS | 21 | PEROVSKIA ABROTANOIDES / RUSSIAN SAGE | 12-15" | 1 GAL. | 3-4` | YES |

## PLANT SCHEDULE PHASE 2 (REFER TO SHEETS C-22 & C-23)

| EVERGREEN TREES | QTY | BOTANICAL / COMMON NAME | SIZE | CONTAINER | MATURE HEIGHT | NATIVE |
|---|---|---|---|---|---|---|
| JV | 116 | JUNIPERUS VIRGINIANA / EASTERN RED CEDAR | 5-6` | B+B | 40-60` | YES |
| PG | 129 | PICEA GLAUCA / WHITE SPRUCE | 5-6` | B+B | 40-60` | YES |
| PS | 92 | PINUS STROBUS / EASTERN WHITE PINE | 5-6` | B+B | 40-60` | YES |
| TG | 26 | THUJA PLICATA 'GREEN GIANT' / WESTERN RED CEDAR | 5-6` | B+B | 40-60` | YES |
| TON | 23 | THUJA OCCIDENTALIS 'NIGRA' / DARK AMERICAN ARBORVITAE | 5-6` | B+B | 20-25` | YES |
| **SHADE TREES** | **QTY** | **BOTANICAL / COMMON NAME** | **SIZE** | **CONTAINER** | **MATURE HEIGHT** | **NATIVE** |
| AR | 10 | ACER RUBRUM / RED MAPLE | 2 1/2-3" CAL. | B+B | 40-60` | YES |
| ARA | 12 | ACER RUBRUM 'ARMSTRONG' / ARMSTRONG RED MAPLE | 2 1/2-3" CAL. | B+B | | |
| GTIS | 12 | GLEDITSIA TRIACANTHOS INERMIS 'SKYCOLE' TM / SKYLINE THORNLESS HONEY LOCUST | 2 1/2-3" CAL. | B+B | 40-60` | YES |
| **DECIDUOUS SHRUBS** | **QTY** | **BOTANICAL / COMMON NAME** | **SIZE** | **CONTAINER** | **MATURE HEIGHT** | **NATIVE** |
| AM | 21 | ARONIA MELANOCARPA / LOW SCAPE MOUND ARONIA | 15-18" | 3 GAL. | 1-2` | YES |
| **EVERGREEN SHRUBS** | **QTY** | **BOTANICAL / COMMON NAME** | **SIZE** | **CONTAINER** | **MATURE HEIGHT** | **NATIVE** |
| IGC | 11 | ILEX GLABRA 'COMPACTA' / COMPACT INKBERRY | 24-30" | B+B | 4-6` | YES |
| JHBC | 283 | JUNIPERUS HORIZONTALIS 'BLUE CHIP' / BLUE CHIP JUNIPER | 15-18" SPRD. | 3 GAL. | .5-1.5` | YES |

## LANDSCAPE COMPLIANCE CHART

**TOWN OF RIVERHEAD**
**ZONE: INDUSTRIAL C**

| ITEM | SECTION | PERMITTED/REQUIRED | PROPOSED | COMPLIANCE |
|---|---|---|---|---|
| PURPOSE & INTENT | § 301-121 | THE USE OF GENEROUS LANDSCAPING AND OPEN SPACE BUFFERS IS INTENDED TO HELP PROTECT THE RURAL APPEARANCE AND MINIMIZE VIEWS OF DEVELOPMENT FROM THE EXPRESSWAY AND ARTERIAL ROADS. | GENEROUS LANDSCAPING AROUND THE ENTIRE PROPERTY LINE | COMPLIES |
| LOT, YARD, BULK AND HEIGHT REQUIREMENTS | § 301-123 | (B) IN ORDER TO FOSTER ENVIRONMENTAL CONSERVATION AS WELL AS PRESERVATION OF THE TOWN'S SCENIC AND RURAL QUALITY, PROPERTIES SHALL PROVIDE ATTRACTIVELY LANDSCAPED CONTIGUOUS OPEN SPACE AREAS, EQUAL TO AT LEAST 20% OF THE LOT AREA, THAT SHIELD VIEWS OF THE DEVELOPMENT FROM ARTERIAL ROADS AND THE LONG ISLAND EXPRESSWAY. PREFERENCE IS GIVEN TO PRESERVATION OF EXISTING HABITAT (SUCH AS MEADOWS OR FORESTS) RATHER THAN CLEARANCE AND CREATION OF NEW HABITAT. THE OPEN SPACE SHOULD SERVE TO PROVIDE ON-SITE STORMWATER MANAGEMENT. | SITE AREA: 1,317,884 S.F.<br>PROPOSED LANDSCAPING: 381,239 SF (28.9%) | COMPLIES |
| SUPPLEMENTARY GUIDELINES | § 301-124 (A)(4) | (A) TRASH/DUMPSTER AREAS SHALL BE SCREENED BY WOOD FENCES OR LANDSCAPING, OR A COMBINATION THEREOF, PURSUANT TO § 245-8. | TRASH AREAS SCREENED BY EVERGREEN TREES (TOE) | COMPLIES |
| | | (B) ALONG BORDERS WITH PUBLIC STREETS, BUFFER PLANTINGS OF A MINIMUM TWENTY-FOOT DEPTH SHALL BE PROVIDED. ALONG PROPERTY LINES SHARED WITH ENTERPRISE PARK AND OTHER PROPERTIES, BUFFER PLANTINGS OF A MINIMUM TEN-FOOT DEPTH SHALL BE PROVIDED. BUFFER PLANTINGS SHALL MINIMIZE VIEWS OF PAVING AND BUILDINGS FROM PUBLIC STREETS AND FROM ENTERPRISE PARK. | 20' DEEP BUFFER ALONG PUBLIC STREET (JV, PG, PS, PPG, VDA, POSW) AND 10' DEPTH BUFFER ALONG PROPERTY LINES (JV, PG, PS) | COMPLIES |
| | § 301-124 (B) | (2) PLANTED BERMS SHALL BE USED TO SCREEN THE VIEW OF AUTOMOBILES FROM PUBLIC ROADWAYS. | BERMS AND 20' DEEP DENSE EVERGREEN & DECIDUOUS SCREEN ALONG PROPERTY LINE | COMPLIES |
| | | (4) IN ORDER TO SOFTEN THE APPEARANCE OF PARKING LOTS, LARGE AREAS OF SURFACE PARKING SHOULD BE BROKEN UP BY ROWS OF LANDSCAPING NO LESS THAN 10 FEET IN WIDTH, IN ORDER TO CREATE PARKING FIELDS OF NO MORE THAN 50 SPACES EACH. LANDSCAPING SHALL INCLUDE GROUND COVER, ORNAMENTAL GRASSES, OR LOW SHRUBS. THIS LANDSCAPING REQUIREMENT IS IN ADDITION TO THE TWENTY-PERCENT PARCEL-WIDE LANDSCAPING MENTIONED ABOVE. | PARKING LOT ISLANDS OF >/= 10' IN WIDTH AND IS LANDSCAPED WITH GROUNDCOVER (JHBC) AND DECIDUOUS TREES (GTIS), (AR) | COMPLIES |

## LANDSCAPE NOTES

1. THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SODDING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR.
2. EXISTING VEGETATION SHALL BE RETAINED UNLESS SPECIFIED ELSEWHERE ON THIS PLAN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES TO REMAIN. A TREE PROTECTION ZONE SHALL BE ESTABLISHED AT THE DRIP LINE OR 15 FEET FROM THE TRUNK OR AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS GREATER. LOCAL STANDARDS MAY REQUIRE THAT A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED.
4. AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.
5. ALL PLANTS SHALL IN ALL CASES CONFORM TO THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK".
6. CALIPER MEASUREMENTS OF NURSERY GROWN TREES SHALL BE TAKEN AT A POINT ON THE TRUNK SIX INCHES (6") ABOVE THE NATURAL GRADE FOR TREES UP TO AND INCLUDING A FOUR INCH (4") CALIPER SIZE.
7. CONTRACTOR SHALL PROVIDE A SIX INCH (6") THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS.
8. PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE, AS SHOWN ON THE APPROVED LANDSCAPE PLAN, MUST BE INSTALLED, INSPECTED AND APPROVED BY THE APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER SHALL OCCUR ONLY DURING THE FOLLOWING PLANTING SEASONS;
   - 8.a. PLANTS: MARCH 15 TO DECEMBER 15
   - 8.b. LAWN: MARCH 15 TO JUNE 15 OR SEPT. 1 TO DECEMBER 1
   - 8.c. TREES OCTOBER 1 TO DECEMBER 1 AND MARCH 1 TO MAY 31

   PLANTINGS REQUIRED FOR A CERTIFICATE OF OCCUPANCY SHALL BE PROVIDED DURING THE NEXT APPROPRIATE SEASON AT THE MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AGENCY FOR POTENTIAL SUBSTITUTIONS.
9. THERE SHALL BE NO PLANT SUBSTITUTIONS UNLESS AUTHORIZED BY LANDSCAPE ARCHITECT AND/OR STAFF OF THE LOCAL MUNICIPALITY.
10. NEW PLANTINGS OR LAWN AREAS SHALL BE ADEQUATELY IRRIGATED BEGINNING IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. WATERING SHALL CONTINUE ROUTINELY AT LEAST UNTIL PLANTS ARE ESTABLISHED.
11. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE APPROVING AGaENCY. CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE BOND FOR TEN PERCENT (10%%%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE CONCLUSION OF THE GUARANTEE PERIOD AND WHEN A FINAL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.
12. CONTRACTOR SHALL ARRANGE TO HAVE A UTILITY STAKE-OUT TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY LANDSCAPE MATERIAL. UTILITY COMPANIES SHALL BE CONTACTED THREE (3) DAYS PRIOR TO THE BEGINNING OF WORK.
13. CONTRACTOR SHALL ENSURE THAT THE PROPOSED TREES ARE NOT PLANTED ON TOP OF UNDERGROUND PIPES AND ACHIEVE MAXIMUM SEPARATION POSSIBLE.
14. CONTRACTOR SHALL PROVIDE AN AUTOMATIC IRRIGATION SYSTEM FOR ALL LANDSCAPE AND LAWN AREAS, THE SYSTEM SHALL MEET ALL CODE REQUIREMENTS.

## LANDSCAPE MAINTENANCE MANAGEMENT NOTES

1. GENERAL:
   - 1.a. ALL MAINTENANCE OPERATIONS AS STATED HEREIN SHALL BE ADHERED TO ON AN ANNUAL BASIS.
   - 1.b. ALL PLANTING AREAS (INCLUDING LAWNS, BUFFERS, PARKING LOTS) SHALL BE PERIODICALLY INSPECTED A MINIMUM OF ONCE PER MONTH; EVERY 2 WEEKS DURING THE GROWING SEASON OR AFTER EACH MOWING SESSION. A GENERAL FALL CLEAN-UP SHALL BE SCHEDULED EACH YEAR.
   - 1.c. ALL UNDESIRABLE LITTER, DEBRIS, AND WEEDS SHALL BE REMOVED ON A WEEKLY BASIS.
   - 1.d. MAINTAIN A MINIMUM OF A 2 INCH DEPTH OF ORGANIC HARDWOOD MULCH OR EQUIVALENT ON ALL PLANTING BEDS, CURBED ISLANDS WITHIN THE PARKING LOT, AND ALL PLANTERS ADJACENT TO THE BUILDING. ADJACENT LAWN AREAS SHOULD BE EDGED TO MAINTAIN A NEAT DISTINCT BORDER.
   - 1.e. ALL BED AREAS ARE TO RECEIVE AN APPLICATION OF PRE-EMERGENCE SUCH AS "PREEN" OR APPROVED EQUAL IN EARLY SPRING.
   - 1.f. ALL STAKES AND GUY WIRES ON NEWLY PLANTED DECIDUOUS AND EVERGREEN TREES SHALL BE MAINTAINED IN GOOD CONDITION FOR THE DURATION OF THE GUARANTEE PERIOD. ALL STAKES AND GUYS ARE TO BE REMOVED UPON COMMENCEMENT OF THIS PERIOD OR ONE YEAR, WHICH EVER OCCURS FIRST.
2. SEASONAL FLOWERS (WHEN APPLICABLE):
   - 2.a. ANNUAL FLOWERS PLANTED IN EITHER BED AREAS OR PLANTERS BEDS SHALL BE PERIODICALLY INSPECTED AND THE SOIL AMENDED ANNUALLY. NEW PLANTINGS SHALL BE PROVIDED IN MAY OF EACH YEAR. DURING THE GROWING SEASON, ALL BEDS SHALL RECEIVE PERIODIC INSPECTION, (AS STATED IN NOTE #1) AND WEEDING TO MAINTAIN A NEAT APPEARANCE.
3. TURF:
   - 3.a. LAWN AREAS SHALL NOT EXCEED A HEIGHT OF 3 INCHES. APPROXIMATELY 25 TO 30 MOWINGS PER YEAR WILL BE REQUIRED.
   - 3.b. FERTILIZER AND SOIL AMENDMENTS SHOULD BE ADDED AS NECESSARY AND/OR ON A SEASONAL BASIS. FERTILIZER IS OPTIMALLY APPLIED TO LAWN AREAS FOUR TIMES PER SEASON. TIMING, FREQUENCY AND RATE OF APPLICATION SHOULD BE ADJUSTED ACCORDING TO WEATHER AND HORTICULTURAL AND SOIL TEST CONDITIONS FOR EACH SPECIFIC SITE. FERTILIZER SHOULD BE APPLIED BY ACCEPTED METHODS ONLY. SAFETY SHOULD ALWAYS BE OF PRIME CONSIDERATION. CARE SHOULD BE TAKEN NOT TO APPLY FERTILIZER WHEN GROUND IS WET, UNDER EXTREME STRESS, OR DURING WINDY CONDITIONS.
   - 3.c. SOIL AMENDMENTS SUCH AS LIME OR GYPSUM MAY HAVE TO BE ADDED TO THE SOIL PERIODICALLY. THE NEED FOR SUCH SOIL AMENDMENTS SHOULD BE ANALYZED DURING THE PERIODIC INSPECTIONS AND IN CONJUNCTION WITH A SOIL TEST.
   - 3.d. APPLY LIME AND SOIL AMENDMENTS AT INTERVALS WHEN REQUIRED. DO NOT APPLY SOIL AMENDMENTS WHILE TURF AREAS ARE WET, UNDER EXTREME STRESS, WHEN CHILDREN ARE PRESENT, OR IN WINDY CONDITIONS.
4. PLANTINGS:
   - 4.a. SOIL AMENDMENTS SHOULD BE APPLIED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS OR BASED UPON SOIL TEST RESULTS. APPLY A 3-1-2 (21-7-14, 10-4-6, OR 24-4-8) 50% ORGANIC FERTILIZER TWICE A YEAR BETWEEN MARCH 15 TO APRIL 15 AND SEPTEMBER 1 TO OCTOBER 1. IF NECESSARY TWO ADDITIONAL APPLICATIONS MAY BE MADE IN MAY AND NOVEMBER. DO NOT APPLY SOIL AMENDMENTS WHILE PLANTS ARE UNDER EXTREME STRESS, IN WINDY CONDITIONS OR WHILE CHILDREN ARE PRESENT.
5. PRUNING:
   - 5.a. REMOVAL OF DEAD, DISEASED, INSECT INFESTED OR WEAK WOOD SHALL TAKE PLACE IN DORMANT SEASON, OR AFTER FLOWERING., EXCESSIVE SHOOTS AND SUCKERS SHALL BE REMOVED. ALL TREES WITHIN THE PARKING LOT ARE TO BE LIMBED AND MAINTAINED AT A MINIMUM HEIGHT AS SPECIFIED WITHIN THE LANDSCAPE SPECIFICATIONS.
   - 5.b. SHRUB MATERIAL USED AS A SCREEN SHOULD BE PRUNED AS A MASS TO ENHANCE THEIR NATURAL FORM. HEDGES SHOULD BE PRUNED TO MAINTAIN A TRAPEZOIDAL FORM.
   - 5.c. ROOT PRUNING OF TREES ADJACENT TO CURBS OR SIDEWALKS SHOULD OCCUR DURING THE PERIODIC INSPECTION WITH KNOWLEDGE OF MOST RECENT PRUNING. NO MORE THAN 1/3 OF THE ROOT SYSTEM SHOULD BE PRUNED DURING A YEAR. A CERTIFIED TREE EXPERT OR ARBORIST SHALL PERFORM THIS WORK.
6. INSECT AND DISEASE CONTROL:
   - 6.a. THE CONTROL OF INSECTS AND DISEASE ASSOCIATED WITH ALL PLANTING AREAS SHOULD ALWAYS BE A MAINTENANCE PRIORITY. ALL PLANTINGS, INCLUDING EXISTING MATURE TREES, SHOULD BE PERIODICALLY INSPECTED FOR INSECT OR DISEASE INFESTATION. METHODS UTILIZED TO CONTROL INSECT AND DISEASE MAY RANGE FROM SPRAYING AND PRUNING TO PLANT REMOVAL. WHATEVER METHOD IS UTILIZED, SAFETY AND CONTROL SHOULD ALWAYS BE OF PRIME CONCERN. CERTIFIED AND TRAINED PERSONNEL SHOULD ALWAYS PERFORM THIS TASK.
7. RENOVATION: RENOVATION INCLUDES THE RE-SEEDING OR REPLANTING OF LANDSCAPE AREAS DAMAGED, DESTROYED OR FAILING DUE TO INSECTS, DISEASE, WEATHER OR PHYSICAL DAMAGE.
   - 7.a. ALL LAWN AREAS WHERE SOIL HAS BEEN EXPOSED SHOULD BE RENOVATED DURING THE NEXT PLANTING SEASON. PROPER HORTICULTURAL AND SOIL EROSION PREVENTION METHODS SHOULD BE UTILIZED. IF SOIL EROSION HAS OCCURRED, THE AREA SHOULD BE REPAIRED. A SEED MIXTURE COMPATIBLE TO EXISTING PLANTINGS AND CONDITIONS SHOULD ALWAYS BE UTILIZED.
   - 7.b. ALL PLANTINGS WHICH ARE DEAD, DAMAGED OR DESTROYED SHOULD BE REPLACED BY THE END OF THE NEXT PLANTING SEASON. A FAILING, DAMAGED OR DESTROYED LANDSCAPE SCREEN OR BUFFER MUST BE RENOVATED OR REPLACED WITHIN A REASONABLE AMOUNT OF TIME BUT NOT TO EXCEED THE SUBSEQUENT GROWING SEASON.
8. SITE AMENITIES:
   - 8.a. BENCHES, PATHS, BICYCLE RACKS, TRASH RECEPTACLES AND SIGNS SHOULD BE INSPECTED AT LEAST TWICE A YEAR, MARCH AND AUGUST, TO DETERMINE THEIR CONDITION. ANY DAMAGED, WORN OR UNSAFE CONDITION SHOULD BE RECTIFIED IMMEDIATELY.
9. PAVED SURFACES: ALL PAVED SURFACES, CONCRETE SIDEWALKS, ASPHALT PAVEMENT AND DECORATIVE PAVEMENT MUST BE INSPECTED ON A REGULAR BASIS, A MINIMUM OF ONCE PER MONTH. ANY TRASH, STAINS, OR OBSTRUCTIONS MUST BE REMOVED IMMEDIATELY. PAVEMENTS SHOULD BE INSPECTED FOR DAMAGE, CRACKS, POT HOLES, AND RETURNED TO THEIR ORIGINAL CONDITION. SNOW SHOULD BE REMOVED DURING AND FOLLOWING EVERY STORM. SIDEWALKS AND PARKING AREAS MUST BE KEPT CLEAR OF ICE AND SNOW DURING BUSINESS HOURS.

| No. | DATE | BY | DESCRIPTION |
|---|---|---|---|
| | | | |
| | | | |
| 6 | 01/24/2022 | LC | MISCELLANEOUS COORDINATION |
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SEAL & SIGNATURE

STATE OF NEW YORK · JACLYN R. PERANTEAU · 083937 · LICENSED PROFESSIONAL ENGINEER

JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

| | |
|---|---|
| DATE: | 01/24/2020 |
| SCALE: | 1" = 120' |
| PROJECT No.: | 19026 |
| DRAWING BY: | LC |
| CHECKED BY: | YT |
| APPROVED BY: | JP |

KEY CIVIL ENGINEERING
664 BLUE POINT ROAD, UNIT B
HOLTSVILLE, NEW YORK 11742
(631) 961-0506
www.KeyCivilEngineering.com

PROJECT NAME:

**HK VENTURES, LLC**
**INDUSTRIAL PARK**
4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:
# OVERALL LANDSCAPE PLAN

DRAWING No.:
C-19

PAGE No.:
19 OF 35

19026_2022.01.24_SPP6.dwg

MIDDLE COUNTRY ROAD
(66' WIDE)
(A.K.A. NY STATE ROUTE 25)

200.10'
S80°15'50"E
325.94'
S72°22'50"E
2609.24'
2510.30'
TWO WAY TRAFFIC
PROP. RETENTION BASIN FLOOR MIX (#180)(TYP.)
PROP. SEEDED LAWN AREA (TYP.)
10 TENANTS @ 5,600 SF (TYP.)
BUILDING 1 (56,000 SF) (75% WAREHOUSE / 25 % MANUFACTURING )
COMMISSARY (1,500 SF)
6 TENANTS @ 9,445 SF (TYP.)
BUILDING 2 (56,672 SF) (75% WAREHOUSE / 25 % MANUFACTURING)
MATCHLINE (REFER TO SECTION A)
MATCHLINE (REFER TO SECTION B)

GRAPHIC SCALE
30 0 15 30 60 120
( IN FEET )
1 inch = 30 ft.

UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY

REFER TO OVERALL LANDSCAPE PLAN (SHEET C-19) FOR PLANTING SCHEDULE AND DETAILS

| No. | DATE | BY | DESCRIPTION |
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083937

JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

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PROJECT NAME:

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4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

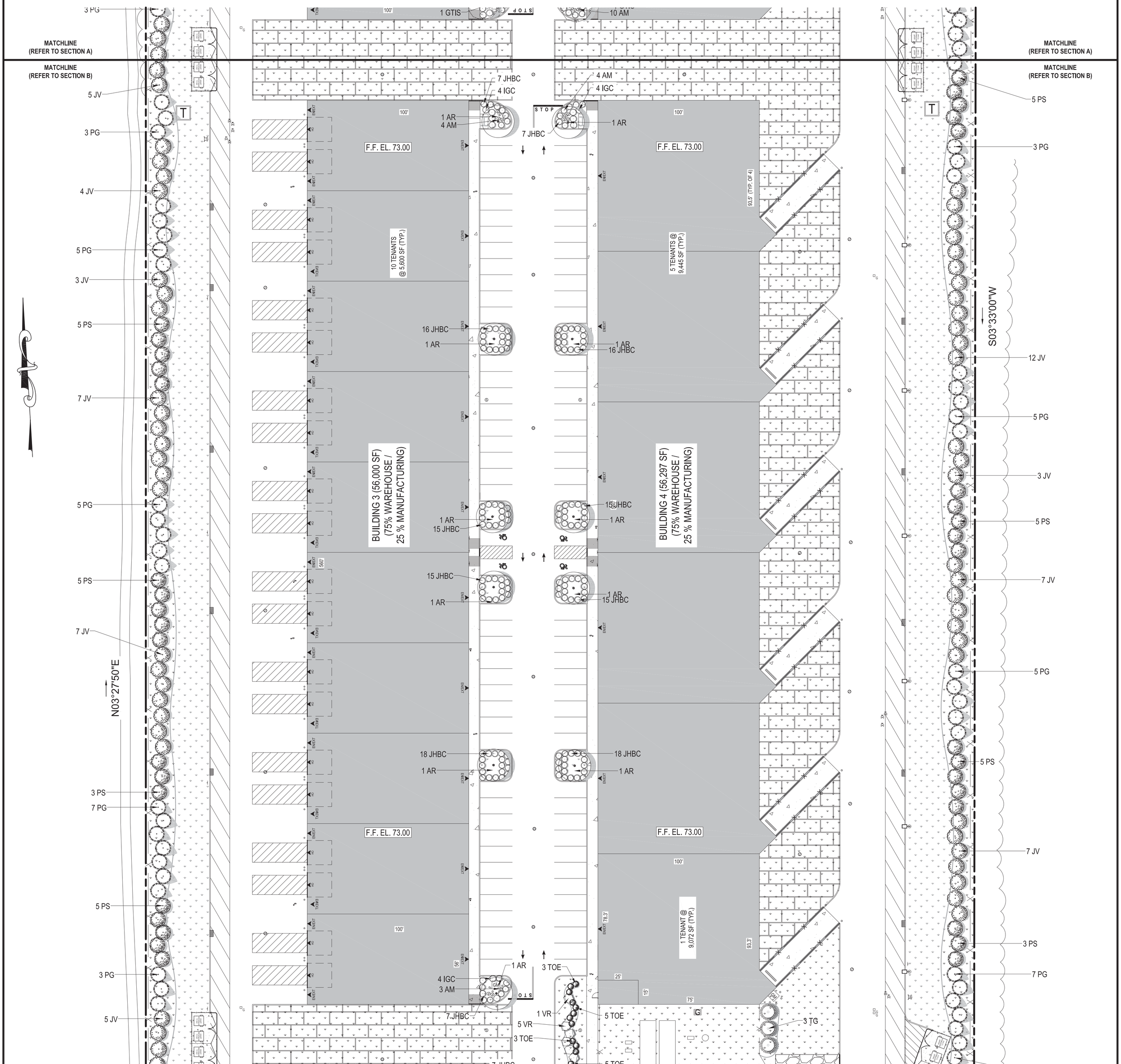
DRAWING TITLE:

## PARTIAL LANDSCAPE PLAN (SECTION A - PHASE I)

DRAWING No.: C-20

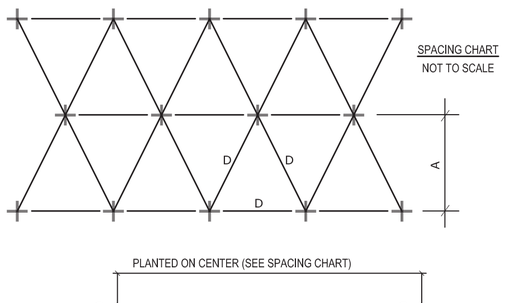
PAGE No.: 20 OF 35

19026_2022.01.24_SPP6.dwg

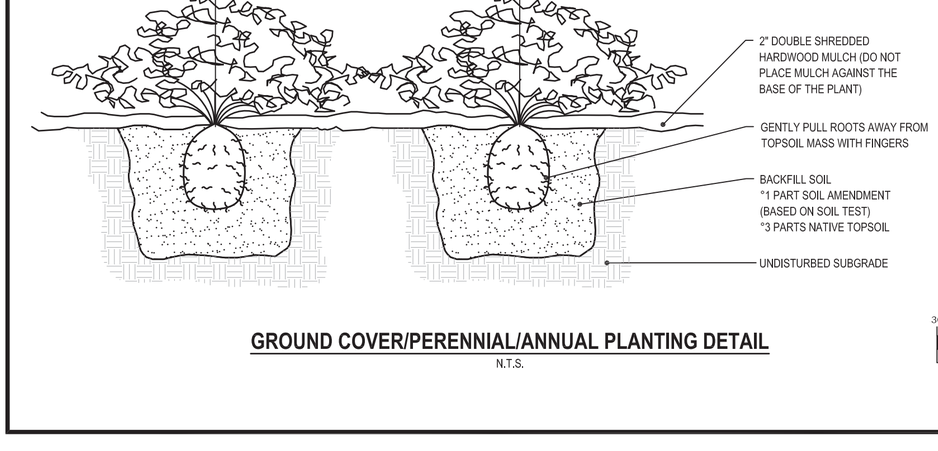



NOTES:

1. THOROUGHLY SOAK THE GROUND COVER ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
2. SOIL AMENDMENTS:
   °MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM
   °MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX
3. ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT PER MANUFACTURER'S SPECIFICATIONS




| SPACING "D" | ROW "A" |
|---|---|
| 6" O.C. | 5.20" |
| 8" O.C. | 6.93" |
| 10" O.C. | 8.66" |
| 12" O.C. | 10.40" |
| 15" O.C | 13.00" |
| 18" O.C. | 15.60" |
| 24" O.C. | 20.80" |
| 30" O.C. | 26.00" |
| 36" O.C. | 30.00" |

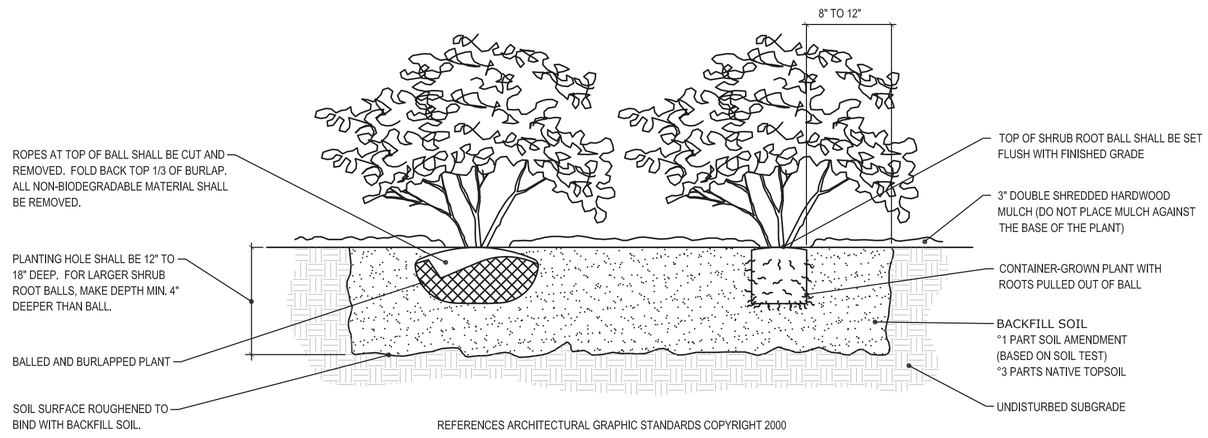



## GROUND COVER/PERENNIAL/ANNUAL PLANTING DETAIL

N.T.S.

NOTES:

1. FOR CONTAINER-GROWN SHRUBS, USE FINGERS OR SMALL HAND TOOL TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
2. THOROUGHLY SOAK THE SHRUB ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
3. SOIL AMENDMENTS:
   °MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM
   °MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX




REFERENCES ARCHITECTURAL GRAPHIC STANDARDS COPYRIGHT 2000

## DECIDUOUS AND EVERGREEN SHRUB PLANTING DETAIL

N.T.S.

GRAPHIC SCALE

30 0 15 30 60 120

( IN FEET )

1 inch = 30 ft.

**UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY**

**REFER TO OVERALL LANDSCAPE PLAN (SHEET C-19) FOR PLANTING SCHEDULE AND DETAILS**

| No. | DATE | BY | DESCRIPTION |
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SEAL & SIGNATURE:

JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

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| PROJECT No.: | 19026 |
| DRAWING BY: | LC |
| CHECKED BY: | YT |
| APPROVED BY: | JP |

KEY CIVIL ENGINEERING
664 BLUE POINT ROAD, UNIT B
HOLTSVILLE, NEW YORK 11742
(631) 961-0506
www.KeyCivilEngineering.com

PROJECT NAME:

# HK VENTURES, LLC INDUSTRIAL PARK

4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:

## PARTIAL LANDSCAPE PLAN (SECTION B - PHASE I)

DRAWING No.: C-21

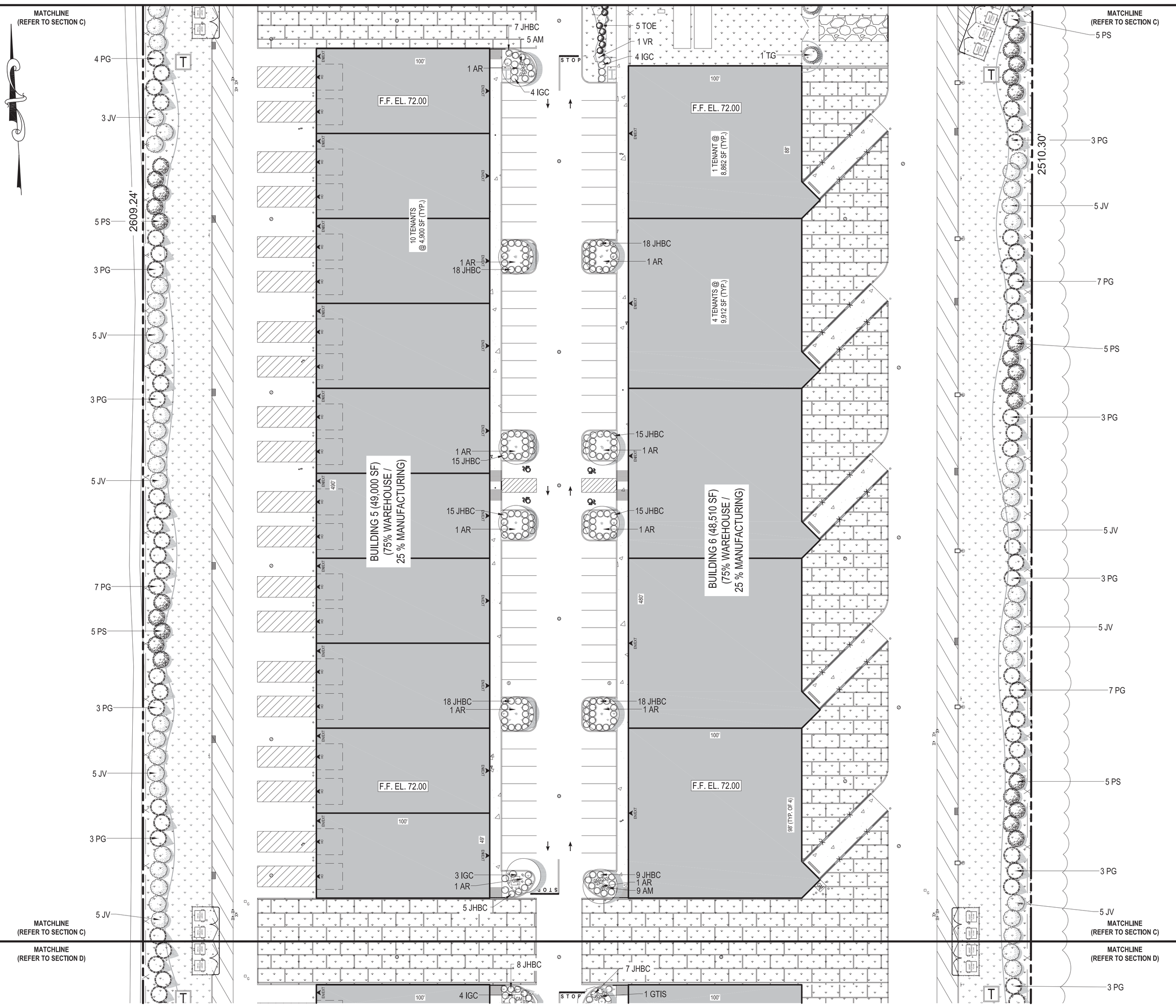
PAGE No.: 21 OF 35

19026_2022.01.24_SPP6.dwg

MATCHLINE (REFER TO SECTION B)

MATCHLINE (REFER TO SECTION C)

MATCHLINE (REFER TO SECTION D)

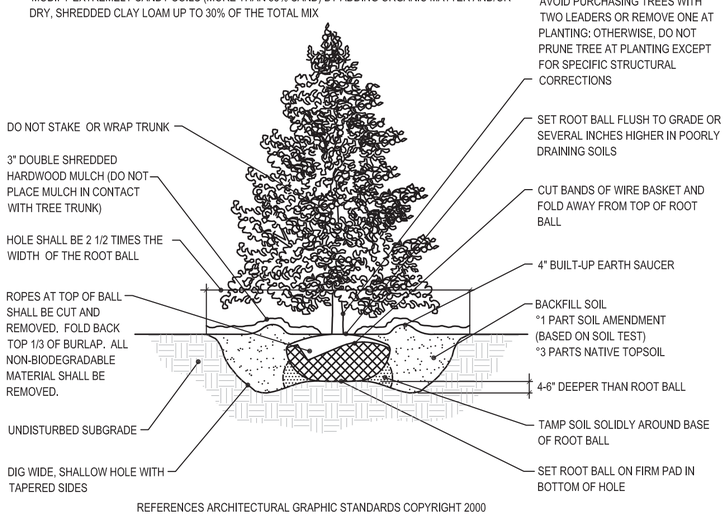



## GRAPHIC SCALE

30 0 15 30 60 120

( IN FEET )
1 inch = 30 ft.

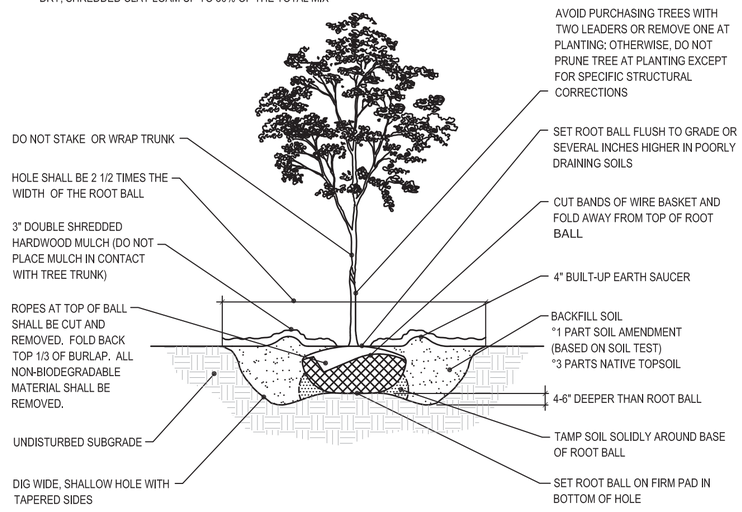
NOTES:
1. FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER
2. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
3. SOIL AMENDMENTS:
   - °MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM
   - °MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX




REFERENCES ARCHITECTURAL GRAPHIC STANDARDS COPYRIGHT 2000

**EVERGREEN TREE PLANTING DETAIL**
N.T.S.

NOTES:
1. FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER
2. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
3. SOIL AMENDMENTS:
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   - °MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX




REFERENCES ARCHITECTURAL GRAPHIC STANDARDS COPYRIGHT 2000

**DECIDUOUS TREE PLANTING DETAIL**
N.T.S.

**UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY**

**REFER TO OVERALL LANDSCAPE PLAN (SHEET C-19) FOR PLANTING SCHEDULE AND DETAILS**

| No. | DATE | BY | DESCRIPTION |
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| | | | |
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SEAL & SIGNATURE:

STATE OF NEW YORK * JACLYN R. PERANTEAU * 083937 LICENSED PROFESSIONAL ENGINEER

JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

| | |
|---|---|
| DATE: | 01/24/2020 |
| SCALE: | 1" = 30' |
| PROJECT No.: | 19026 |
| DRAWING BY: | LC |
| CHECKED BY: | YT |
| APPROVED BY: | JP |

CIVIL ENGINEERING
664 BLUE POINT ROAD, UNIT B
HOLTSVILLE, NEW YORK 11742
(631) 961-0506
www.KeyCivilEngineering.com

PROJECT NAME:

# HK VENTURES, LLC INDUSTRIAL PARK

4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:

## PARTIAL LANDSCAPE PLAN (SECTION C - PHASE II)

DRAWING No.: C-22



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MATCHLINE (REFER TO SECTION C)

MATCHLINE (REFER TO SECTION D)

MATCHLINE (REFER TO SECTION C)

MATCHLINE (REFER TO SECTION D)

BUILDING 7 (44,100 SF) (75% WAREHOUSE / 25 % MANUFACTURING)

BUILDING 8 (44,550 SF) (75% WAREHOUSE / 25 % MANUFACTURING)

9 TENANTS @ 4,900 SF (TYP.)

4 TENANTS @ 11,137 SF (TYP.)

F.F. EL. 70.00

PROP. RETENTION BASIN FLOOR MIX (#126)(TYP.)

PROP. RETENTION BASIN FLOOR MIX (#126)(TYP.)

N03°27'50"E

S03°33'00"W

N86°14'30"W

511.18'

110.3'

441'

100'

49'

GRAPHIC SCALE

30 0 15 30 60 120

( IN FEET )

1 inch = 30 ft.

**PHASE I**

**UNDERGROUND UTILITIES NOT SHOWN FOR CLARITY**

**REFER TO OVERALL LANDSCAPE PLAN (SHEET C-19) FOR PLANTING SCHEDULE AND DETAILS**

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JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

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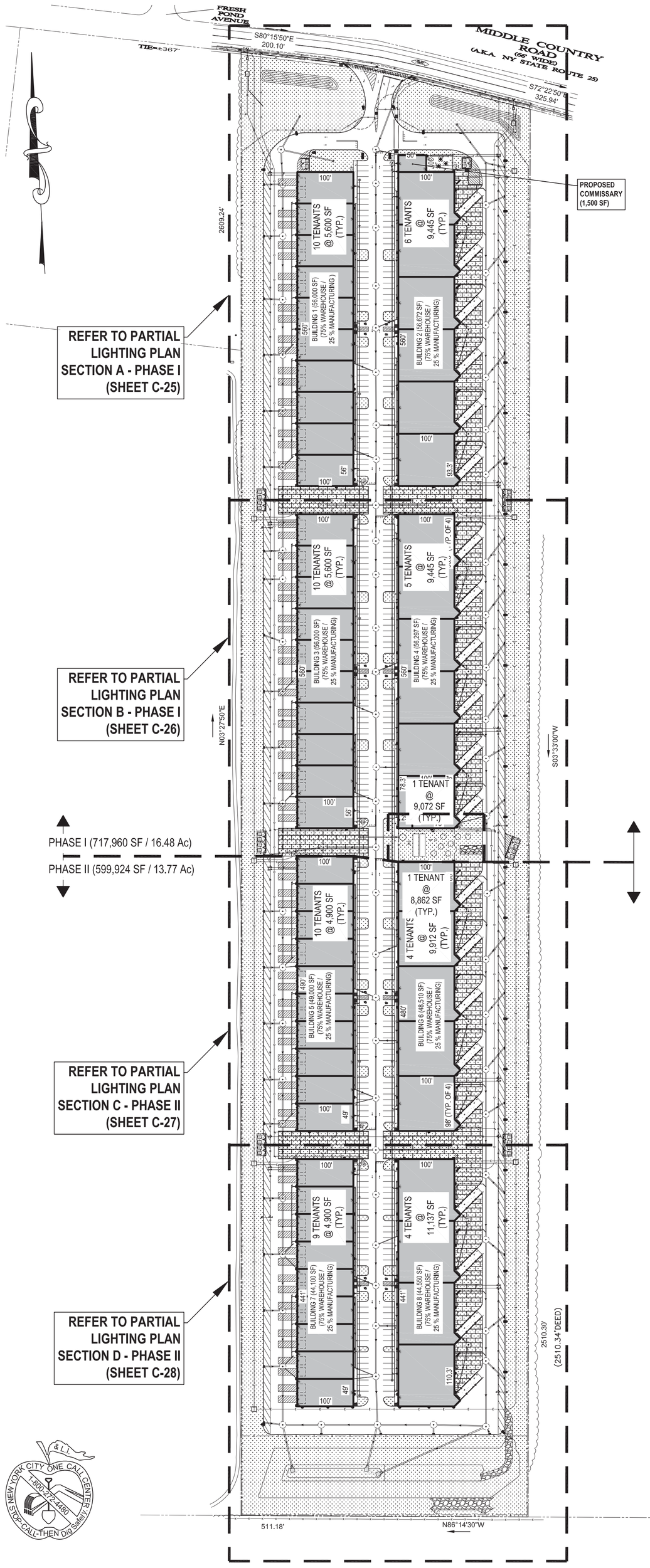
DRAWING TITLE:

## PARTIAL LANDSCAPE PLAN (SECTION D - PHASE II)

DRAWING No.: C-23

PAGE No.: 23 OF 35

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GRAPHIC SCALE

120 0 60 120 240 480

( IN FEET )

1 inch = 120 ft.

## LEGEND

SCALE OF SYMBOLS = 1" = 120'

| EXISTING | ITEM | PROPOSED |
|---|---|---|
| | PROPERTY LINE | |
| | BUILDING | |
| | CONCRETE CURB | |
| | CONCRETE SIDEWALK | |
| | LANDSCAPE AREA | |
| | PERVIOUS PAVERS | |
| | DUMPSTER ENCLOSURE | |
| | 12' x 34' LOADING SPACE | |
| | LOADING DOCK RETAINING WALLS | |
| | PARKING COUNT | 9 |
| | OVERHEAD DOOR | |
| | DOOR | |
| x x | FENCE | x x x x |
| | BIKE RACK | |
| | HYDRANT | |

## GENERAL FOUNDATION NOTES

1. STRUCTURAL CONCRETE AND CONCRETING PRACTICES SHALL CONFORM WITH ACI-318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE." DETAILS SHALL BE IN ACCORDANCE WITH ACI-315, "MANUAL OF STANDARD PRACTICE: DETAILS AND DETAILING OF CONCRETE REINFORCEMENT." FORMWORK SHALL CONFORM WITH ACI-347, "GUIDE TO FORMWORK FOR CONCRETE," UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS.
2. CONCRETE SHALL BE NORMAL WEIGHT STONE AGGREGATE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. ALL DESIGN MIXES SHALL BE PROPORTIONED IN ACCORDANCE TO SECTION 5.3, "PROPORTIONING ON THE BASIS OF FIELD EXPERIENCE AND/OR TRIAL MIXTURES" OF ACI-318. THE WATER-CEMENT RATIO FOR THE PROPOSED MIX DESIGN SHALL ACHIEVE AN AVERAGE 28-DAY STRENGTH OF 1,200 PSI GREATER THAN THE REQUIRED STRENGTH ON LABORATORY TEST RESULTS. ALL DESIGN MIXES INCLUDING HISTORICAL TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
3. CONCRETE SHALL HAVE A SLUMP NO GREATER THAN 4" TO WITHIN A TOLERANCE OF 1".
4. EXPOSED CONCRETE SHALL BE AIR ENTRAINED, 6% (WITHIN 1% TOLERANCE), CONFORMING TO ASTM C 260.
5. CONCRETE SHALL BE CONSOLIDATED IN PLACE USING AN INTERNAL VIBRATOR.
6. REINFORCING STEEL BARS SHALL BE BILLET STEEL CONFORMING TO ASTM A 615, GRADE 60. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS. BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES SHALL BE PLASTIC TIPPED. ALL ACCESSORIES SHALL BE GALVANIZED.
7. ALL SPLICES OF REINFORCING BARS NOT INDICATED ARE TO BELTS AS PER THE REINFORCING SPLICE SCHEDULE OR 40 BAR DIAMETERS. DISCONTINUOUS ENDS OF CONTINUOUS BARS SHALL BE STANDARD HOOKS.
8. SHOP DRAWINGS OF REINFORCING TO BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION AND ORDERING OF MATERIAL. SHOP DRAWINGS SHALL SHOW ALL REINFORCEMENTS, SPLICE LENGTHS, BAR LENGTHS, BEND SCHEDULES, AND CONCRETE DIMENSIONS. REINFORCING LAYERS SHALL BE SHOWN SEPARATELY ON SHOP DRAWINGS.
9. CONCRETE FIELD TESTS SHALL BE PERFORMED AS REQUIRED BY GOVERNING CODES BY A QUALIFIED INDEPENDENT INSPECTION FIRM. TESTS SHALL NOT BE TAKEN LESS THAN ONCE A DAY OR LESS THAN ONCE PER 150 CUBIC YARDS OF CONCRETE. NO LESS THAN 6 TEST CYLINDERS ARE TO BE TAKEN TO OBTAIN 7-DAY AND 28-DAY AVERAGE COMPRESSIVE STRENGTHS.
10. IF CAVING OF DRILLED HOLES ARE ENCOUNTERED, CONTRACTOR SHALL PROVIDE BENTONITE SLURRY IN PERMANENT CASINGS FOR DRILLED CONCRETE PIER FOUNDATIONS.
11. CONCRETE SHALL ATTAIN 80% OF THE DESIGN STRENGTH OR CURE FOR A MINIMUM OF 7-DAYS PRIOR TO THE INSTALLATION OF THE LIGHT POLES OR ALL LIGHT POLES ARE TO BE SUITABLY BRACED AGAINST WIND LOADS, EARTH PRESSURE, AND CONSTRUCTION LOADS DURING THE ABOVE MENTIONED TIMEFRAME.
12. MINIMUM FOUNDATION EMBEDMENT DEPTH SHALL BE MEASURED FROM THE LOWEST SITE GRADE ELEVATION, FURTHER, USE OF NON-STRUCTURAL SOIL (I.E. TOP SOIL) SHALL NOT BE CONSIDERED AS PART OF THE MINIMUM EMBEDMENT DEPTH REQUIRED.

## DESIGN CRITERIA

REFER TO GEOTECHNICAL EVALUATION REPORT
PREPARED BY:
J.R. HOLZMACHER P.E., LLC
3555 VETERANS MEMORIAL HIGHWAY, SUITE A
RONKONKOMA, NY 11779
DATED: 03/19/2021

SUBGRADE MINIMUM ALLOWABLE BEARING PRESSURE = 2,000 PSF (MINIMUM REQUIRED)

SOIL FRICTION ANGLE = 34 DEG (ESTIMATED)

SOIL DRY UNIT WEIGHT = 110 PCF (ASSUMED)

BASIC WIND SPEED = 120 MPH

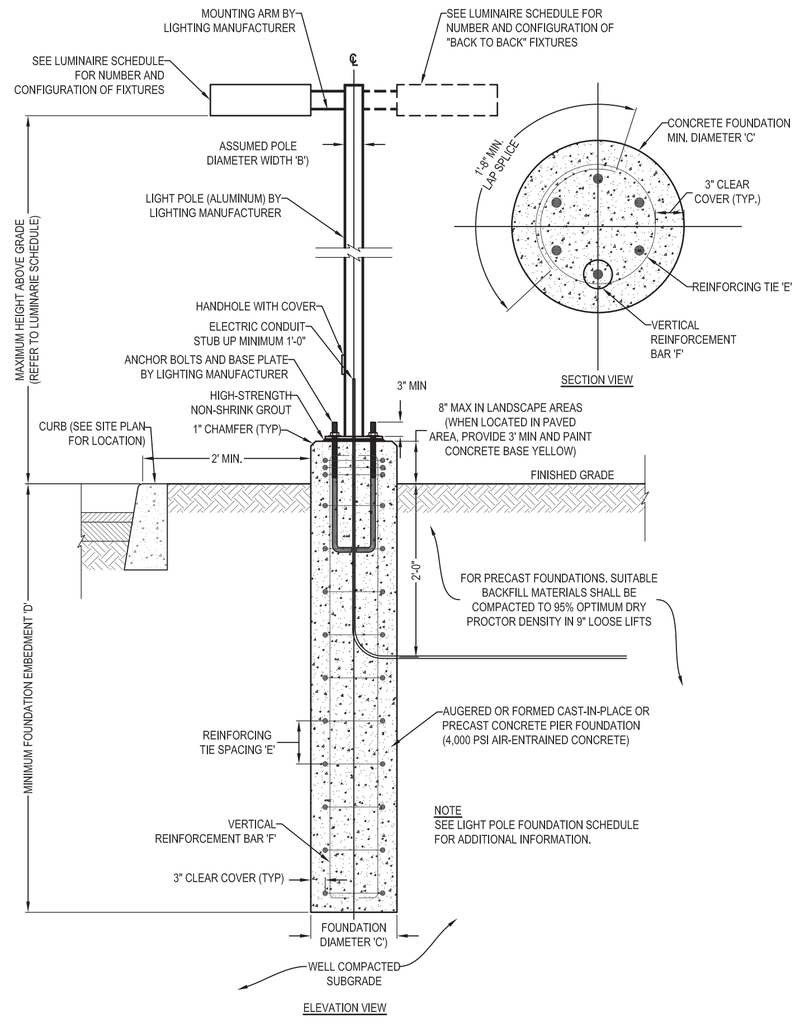
## LIGHT POLE FOUNDATION SCHEDULE

| | |
|---|---|
| MAXIMUM HEIGHT ABOVE GRADE 'A' | 16'-0" MAX |
| ASSUMED AVERAGE POLE DIAMETER WIDTH 'B' | 5" (SQUARE ALUMINUM) |
| MAXIMUM NUMBER OF FIXTURES | TWO |
| MINIMUM FOUNDATION DIAMETER 'C' | 2'-0" |
| MINIMUM FOUNDATION DEPTH 'D' | 5'-0" |
| REINFORCING TIES 'E' * | #3 TIE AT 12" O.C. |
| VERTICAL HOOKED REINFORCEMENT 'F' | (6) #6 BARS EQUALLY SPACED |

* = ADD 3 TIES, 1-1/2" C-C, AT TOP OF THE FOUNDATION

## GENERAL LIGHTING NOTES

1. THE CONTRACTOR, MATERIALS, AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE CONSTRUCTION CODE OF THE TOWN'S LATEST EDITION AND ALL APPLICABLE FEDERAL AND STATE CODES, STANDARDS, REGULATIONS, AND LAWS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS, AND COORDINATE WITH ALL CONTRACT DRAWINGS, PROJECT SHOP DRAWINGS AND FIELD CONDITIONS PRIOR TO CONSTRUCTION. IF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DESIGN PLANS ARISE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
3. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES, AND UTILITY LINES FROM ALL DAMAGE.
4. JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION OF ALL EXCAVATION SLOPES, WHERE NECESSARY, SHEETING AND SHORING OF EXCAVATION SHALL BE PROVIDED WITH ALL REQUIRED TIE BACKS AND BRACING. METHODS EMPLOYED IN ALL SHEETING AND SHORING SHALL BE DESIGNED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER LICENSED IN THE PROJECT'S STATE.
6. THE CONTRACTOR SHALL HAVE A GEOTECHNICAL ENGINEER, LICENSED IN THE PROJECT'S STATE, ON SITE TO INSPECT FILL, MONITOR FILL COMPACTION, VERIFY SUBGRADE ALLOWABLE BEARING CAPACITY, AND SOIL DESIGN CRITERIA PRIOR TO CONSTRUCTION IN ACCORDANCE TO THE DESIGN ASSUMPTIONS STATED IN THE CONTRACT DOCUMENTS. UNSUITABLE MATERIALS FOUND SHALL BE REMEDIED AS PER THE DIRECTION OF THE ON SITE GEOTECHNICAL ENGINEER.
7. NO REVISIONS, ALTERNATES, OR SUBSTITUTIONS TO THE CONTRACT DOCUMENTS ARE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
8. ILLUMINATION LEVELS SHOWN IN FOOT-CANDLES.
9. ILLUMINATION LEVELS ON THIS PLAN HAVE BEEN CALCULATED FOR PROPOSED SITE AREA LIGHTS ONLY. ACTUAL ILLUMINATION LEVELS IN THE FIELD MAY DIFFER FROM THOSE DEPICTED ON THE PLAN DUE TO INTERFERENCE FROM EXISTING/AMBIENT LIGHTING WHOSE ILLUMINATION LEVELS ARE NOT REFLECTED ON THIS PLAN.
10. LIGHT CIRCUITRY PLAN PREPARED BY OTHERS.
11. ILLUMINATION LEVELS SHOWN ON THIS PLAN WERE CALCULATED USING PHOTOMETRIC SOFTWARE.




**TYPICAL LIGHT POLE FOUNDATION DETAIL**
N.T.S.

## CALCULATION SUMMARY

| LABEL | CALC TYPE | UNITS | AVG | MAX | MIN | AVG/MIN | MAX/MIN | MAX/AVG |
|---|---|---|---|---|---|---|---|---|
| WHOLE SITE CALC_PTS | ILLUMINANCE | Fc | 1.46 | 9.0 | 0.0 | N/A | N/A | N/A |
| BETWEEN BUILDINGS CALC_PTS | ILLUMINANCE | Fc | 2.12 | 6.2 | 0.9 | 2.36 | 6.89 | N/A |

## LUMINAIRE SCHEDULE

| SYMBOL | QUANTITY (PHASE I) | QUANTITY (PHASE II) | LABEL | FIXTURE ARRANGEMENT | FIXTURE COUNT | MANUFACTURER / FIXTURE DESCRIPTION / MOUNTING TYPE | MOUNTING HEIGHT | LLF | COLOR TEMPERATURE | ARRANGEMENT WATTS | TOTAL WATTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 0 | A | BACK - BACK | 2 | GLEON - SA2A-730-U-T4FT / POLE MOUNTED | 16'-0" | 0.920 | 3000 K | 132 | 264 |
| | 20 | 13 | B | SINGLE | 1 | GLEON - SA2A-730-U-T4FT / POLE MOUNTED | 16'-0" | 0.920 | 3000 K | 66 | 2178 |
| | 84 | 79 | C | SINGLE | 1 | GLEON - SA2A-730-U-T4FT / WALL MOUNTED | 16'-0" | 0.920 | 3000 K | 66 | 10758 |
| | | | | | | | | | | TOTAL | 13200 |

| No. | DATE | BY | DESCRIPTION |
|---|---|---|---|
| | | | |
| | | | |
| 6 | 01/24/2022 | LC | MISCELLANEOUS COORDINATION |
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| 3 | 06/22/2020 | LC | MISCELLANEOUS COORDINATION |
| 2 | 06/03/2020 | LC | ISSUED FOR TOWN SUBMISSION |
| 1 | 05/15/2020 | LC | ISSUED FOR REVIEW |

REVISIONS

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SEAL & SIGNATURE:

STATE OF NEW YORK * JACLYN R. PERANTEAU * 083937 LICENSED PROFESSIONAL ENGINEER
NOT VALID UNLESS SEALED

JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

| | |
|---|---|
| DATE: | 01/24/2020 |
| SCALE: | 1" = 120' |
| PROJECT No.: | 19026 |
| DRAWING BY: | LC |
| CHECKED BY: | YT |
| APPROVED BY: | JP |

KEY CIVIL ENGINEERING
664 BLUE POINT ROAD, UNIT B
HOLTSVILLE, NEW YORK 11742
(631) 961-0506
www.KeyCivilEngineering.com

PROJECT NAME:

# HK VENTURES, LLC INDUSTRIAL PARK

4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:

# OVERALL LIGHTING PLAN

DRAWING No.: C-24

PAGE No.: 24 OF 35

19026_2022.01.24_SPP6.dwg

MIDDLE COUNTRY ROAD
(66' WIDE)
(AKA. NY STATE ROUTE 25)

TWO WAY TRAFFIC

200.10'
S80°15'50"E
325.94'
S72°22'50"E
2609.24'
2510.30'

BUILDING 1 (56,000 SF)
(75% WAREHOUSE /
25 % MANUFACTURING )

10 TENANTS
@ 5,600 SF (TYP.)

F.F. EL. 75.00

COMMISSARY
(1,500 SF)

6 TENANTS @
9,445 SF (TYP.)

BUILDING 2 (56,672 SF)
(75% WAREHOUSE /
25 % MANUFACTURING)

MATCHLINE
(REFER TO SECTION A)

MATCHLINE
(REFER TO SECTION B)

GRAPHIC SCALE
30 0 15 30 60 120
( IN FEET )
1 inch = 30 ft.

**REFER TO OVERALL LIGHTING PLAN (SHEET C-24) FOR LUMINARIE SCHEDULE AND DETAILS**

| No. | DATE | BY | DESCRIPTION |
|---|---|---|---|
| | | | |
| | | | |
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083937

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CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:

## PARTIAL LIGHTING PLAN (SECTION A - PHASE I)

DRAWING No.: C-25

PAGE No.: 25 OF 35

19026_2022.01.24_SPP6.dwg

MATCHLINE (REFER TO SECTION A)

MATCHLINE (REFER TO SECTION B)

MATCHLINE (REFER TO SECTION A)

MATCHLINE (REFER TO SECTION B)

N03°27'50"E

S03°33'00"W

BUILDING 3 (56,000 SF) (75% WAREHOUSE / 25 % MANUFACTURING)

10 TENANTS @ 5,600 SF (TYP.)

BUILDING 4 (56,297 SF) (75% WAREHOUSE / 25 % MANUFACTURING)

5 TENANTS @ 9,445 SF (TYP.)

1 TENANT @ 9,072 SF (TYP.)

MATCHLINE (REFER TO SECTION B)

MATCHLINE (REFER TO SECTION C)

MATCHLINE (REFER TO SECTION B)

MATCHLINE (REFER TO SECTION C)

GRAPHIC SCALE

30 0 15 30 60 120

( IN FEET )

1 inch = 30 ft.

**REFER TO OVERALL LIGHTING PLAN (SHEET C-24) FOR LUMINARIE SCHEDULE AND DETAILS**

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CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:

## PARTIAL LIGHTING PLAN (SECTION B - PHASE I)

DRAWING No.: C-26

PAGE No.: 26 OF 35

19026_2022.01.24_SPP6.dwg

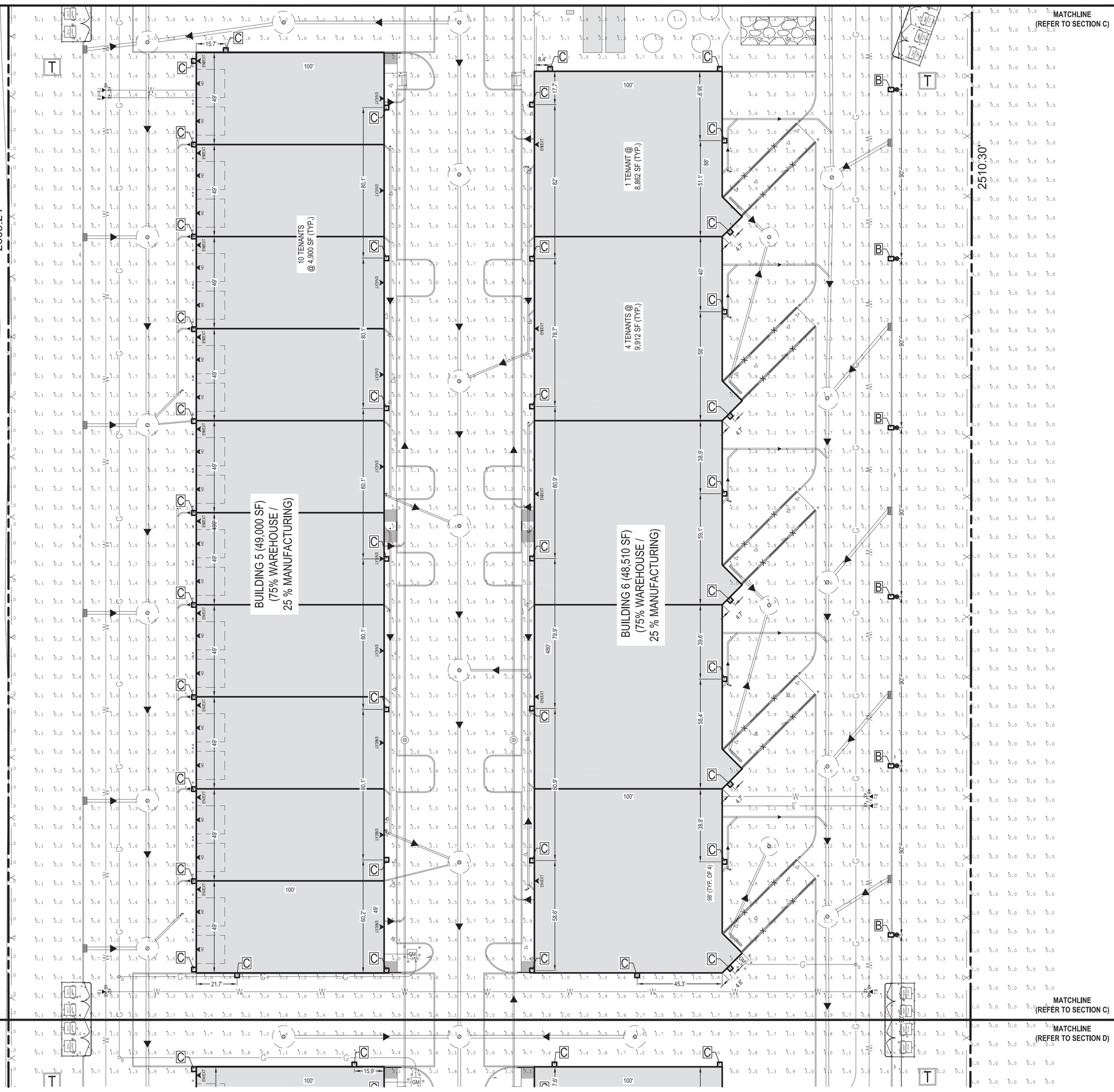
MATCHLINE (REFER TO SECTION B)

MATCHLINE (REFER TO SECTION C)

MATCHLINE (REFER TO SECTION B)

MATCHLINE (REFER TO SECTION C)






MATCHLINE (REFER TO SECTION C)

MATCHLINE (REFER TO SECTION D)

GRAPHIC SCALE

30 0 15 30 60 120

( IN FEET )

1 inch = 30 ft.

**REFER TO OVERALL LIGHTING PLAN (SHEET C-24) FOR LUMINARIE SCHEDULE AND DETAILS**

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4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:

## PARTIAL LIGHTING PLAN (SECTION C - PHASE II)

DRAWING No.: C-27

PAGE No.: 27 OF 35

19026_2022.01.24_SPP6.dwg

MATCHLINE
(REFER TO SECTION C)

MATCHLINE
(REFER TO SECTION C)

MATCHLINE
(REFER TO SECTION D)

MATCHLINE
(REFER TO SECTION D)

9 TENANTS
@ 4,900 SF (TYP.)

4 TENANTS @
11,137 SF (TYP.)

BUILDING 7 (44,100 SF)
(75% WAREHOUSE /
25 % MANUFACTURING)

BUILDING 8 (44,550 SF)
(75% WAREHOUSE /
25 % MANUFACTURING)

N03°27'50"E

S03°33'00"W

N86°14'30"W

511.18'

GRAPHIC SCALE

30 0 15 30 60 120

( IN FEET )
1 inch = 30 ft.

**REFER TO OVERALL LIGHTING PLAN (SHEET C-24) FOR LUMINARIE SCHEDULE AND DETAILS**

| No. | DATE | BY | DESCRIPTION |
|---|---|---|---|
| | | | |
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DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:

## PARTIAL LIGHTING PLAN (SECTION D - PHASE II)

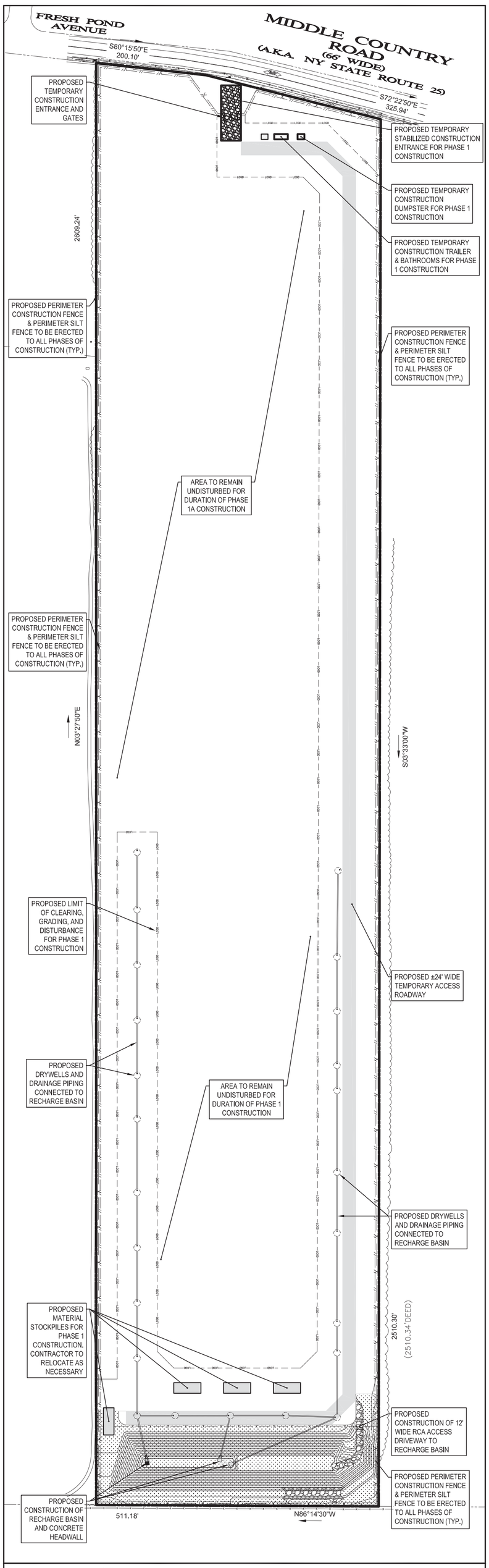
DRAWING No.:

C-28

PAGE No.:

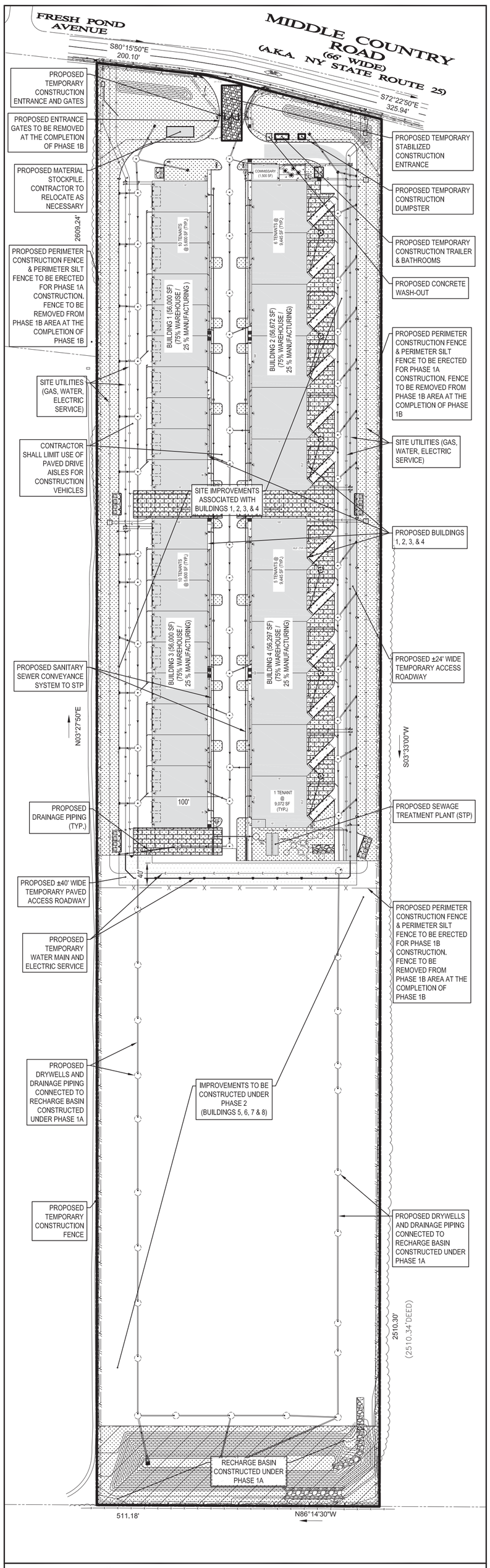
28 OF 35

19026_2022.01.24_SPP6.dwg



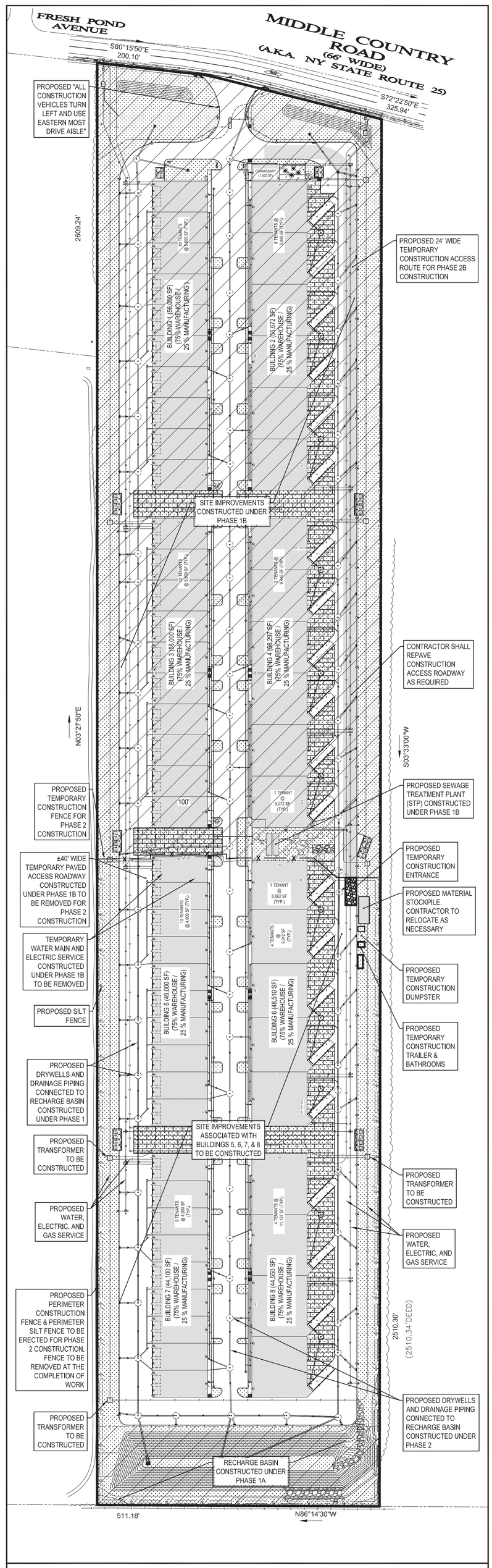

## CONSTRUCTION PHASE 1A PLAN

SCALE: 1" = 120'




## CONSTRUCTION PHASE 1B PLAN

SCALE: 1" = 120'




## CONSTRUCTION PHASE 2 PLAN

SCALE: 1" = 120'

## WORK SCOPE UNDER PHASE 1A CONSTRUCTION (ESTIMATED TIMEFRAME = ±6 MONTHS)

ESTIMATED CLEARING AREA = ±468,097 SF (10.75 ACRES)

- INSTALLATION OF EROSION CONTROL MEASURES INCLUDING BUT NOT LIMITED TO THE CONSTRUCTION ENTRANCE, PERIMETER CONSTRUCTION FENCE & SILT FENCE, AND INLET PROTECTION
- PARTIAL SITE CLEARING PRIOR TO THE START OF CONSTRUCTING PHASE 1 IMPROVEMENTS
- PERFORM EARTHWORK FOR PHASE 1 IMPROVEMENTS TO WITHIN 1 FOOT OF FINAL GRADE
- CONSTRUCTION OF TEMPORARY ACCESS ROADWAY ALONG EASTERN SIDE OF PROPERTY
- CONSTRUCTION OF RECHARGE BASIN AND DRAINAGE CONVEYANCE SYSTEMS FROM PHASE 1A SITE IMPROVEMENTS TO RECHARGE BASIN
- INSTALLATION OF 12' WIDE RCA ACCESS DRIVEWAY TO RECHARGE BASIN
- INSTALLATION OF FENCING AROUND RECHARGE BASIN

## WORK SCOPE UNDER PHASE 1B CONSTRUCTION (ESTIMATED TIMEFRAME = ±18 MONTHS)

ESTIMATED CLEARING AREA = ±550,763 SF (12.64 ACRES)

- INSTALLATION / RELOCATION OF EROSION CONTROL MEASURES FOR THE PHASE 1B WORK
- INSTALLATION OF UNDERGROUND UTILITIES AND TEMPORARY WATER MAIN AND ELECTRICAL LOOPS FOR BUILDINGS 1, 2, 3, & 4
- INSTALLATION OF PHASE 1B DRYWELLS, DRAINAGE INLETS & DRAINAGE PIPING
- CONSTRUCTION OF SEWAGE TREATMENT PLANT, SANITARY SEWER CONVEYANCE SYSTEMS, AND SEPTIC TANK AND GREASE TRAP FOR COMMISSARY
- CONSTRUCTION OF BUILDINGS 1, 2, 3, & 4
- CONNECTION OF ROOF DRAINS TO DRAINAGE CONVEYANCE SYSTEM
- CONSTRUCTION OF LOADING DOCK RETAINING WALLS FOR BUILDING 1, 2, 3, & 4
- CONSTRUCTION OF LOADING DOCK DRAINAGE SYSTEMS
- CONSTRUCTION OF CURBING, FENCING, CONCRETE SIDEWALKS, ASPHALT PAVING, & PAVEMENT STRIPING AND ENTRANCE GATES
- INSTALLATION OF SITE AREA LIGHTS
- INSTALLATION OF LANDSCAPE PLANTINGS & HYDROSEEDING OF LAWN AREAS FOR PHASE 1B BUILDING AREAS AND AROUND RECHARGE BASIN.

## WORK SCOPE UNDER PHASE 2 CONSTRUCTION (ESTIMATED TIMEFRAME = ±18 MONTHS)

IT IS ANTICIPATED THAT PHASE 1 BUILDINGS 1, 2, 3, & 4 WILL BE OPERATIONAL DURING THE CONSTRUCTION OF THE PHASE 2 SITE IMPROVEMENTS AND BUILDINGS.

ESTIMATED CLEARING AREA = ±299,024 SF (6.86 ACRES)

- INSTALLATION / RELOCATION OF EROSION CONTROL MEASURES FOR THE PHASE 2 WORK
- INSTALLATION OF UNDERGROUND UTILITIES
- REMOVAL OF TEMPORARY WATER MAIN AND ELECTRIC SERVICE LOOPS FOR BUILDINGS 1, 2, 3, & 4 UPON COMPLETION OF FINAL WATER MAIN AND ELECTRIC SERVICES.
- INSTALLATION OF PHASE 2 DRYWELLS & DRAINAGE PIPING FOR CENTER DRIVE AISLE
- CONSTRUCTION OF BUILDINGS 5, 6, 7, & 8
- CONSTRUCTION OF SANITARY SEWER CONVEYANCE SYSTEMS
- CONNECTION OF ROOF DRAINS TO DRAINAGE CONVEYANCE SYSTEM
- CONSTRUCTION OF LOADING DOCK RETAINING WALLS FOR BUILDING 5, 6, 7, & 8
- CONSTRUCTION OF LOADING DOCK DRAINAGE SYSTEMS
- CONSTRUCTION OF CURBING, FENCING, CONCRETE SIDEWALKS, ASPHALT PAVING, & PAVEMENT STRIPING
- INSTALLATION OF SITE AREA LIGHTS
- INSTALLATION OF LANDSCAPE PLANTINGS & HYDROSEEDING OF LAWN AREAS

**CONSTRUCTION PHASING PLAN FOR SCHEMATIC PURPOSES ONLY**

**EACH PHASE OF CONSTRUCTION SHALL BE STABILIZED TO THE SATISFACTION OF THE ENGINEER OF RECORD PRIOR TO THE START OF CONSTRUCTION OF THE NEXT PHASE**

**ALL CLEARING ACTIVITIES SHALL OCCUR FROM DECEMBER 1ST THROUGH FEBRUARY 28TH IN ORDER TO PROTECT THE NORTHERN LONG EARED BAT (NLEB) FROM UNINTENTIONAL HARM. CLEARING ACTIVITIES OUTSIDE OF THE ABOVE MENTIONED WINDOW SHALL ONLY OCCUR WITH THE EXPRESSED WRITTEN CONSENT OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC).**

NEW YORK CITY ONE CALL CENTER 1-800-272-4480 STOP-CALL-THEN DIG Safely

GRAPHIC SCALE
120 0 60 120 240 480
( IN FEET )
1 inch = 120 ft.

| No. | DATE | BY | DESCRIPTION |
|---|---|---|---|
| | | | |
| | | | |
| 6 | 01/24/2022 | LC | MISCELLANEOUS COORDINATION |
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JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

| | |
|---|---|
| DATE: | 01/24/2020 |
| SCALE: | 1" = 120' |
| PROJECT No.: | 19026 |
| DRAWING BY: | LC |
| CHECKED BY: | YT |
| APPROVED BY: | JP |

KEY CIVIL ENGINEERING
664 BLUE POINT ROAD, UNIT B
HOLTSVILLE, NEW YORK 11742
(631) 961-0506
www.KeyCivilEngineering.com

PROJECT NAME:

# HK VENTURES, LLC INDUSTRIAL PARK

4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

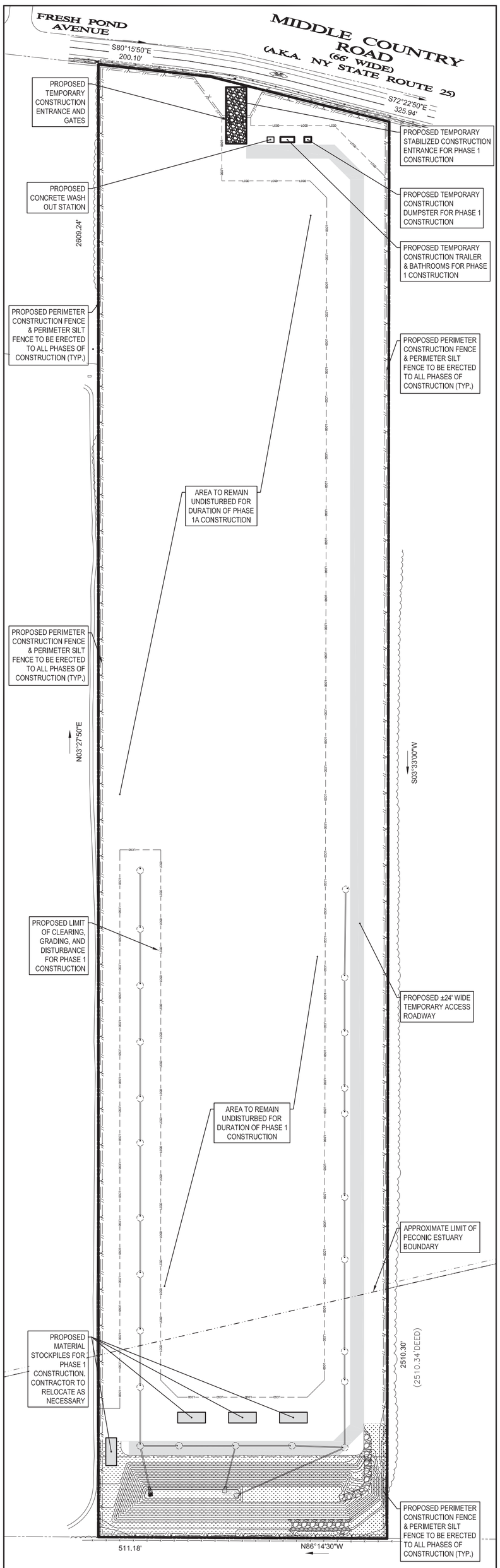
DRAWING TITLE:

# OVERALL CONSTRUCTION PHASING PLAN

DRAWING No.: C-29

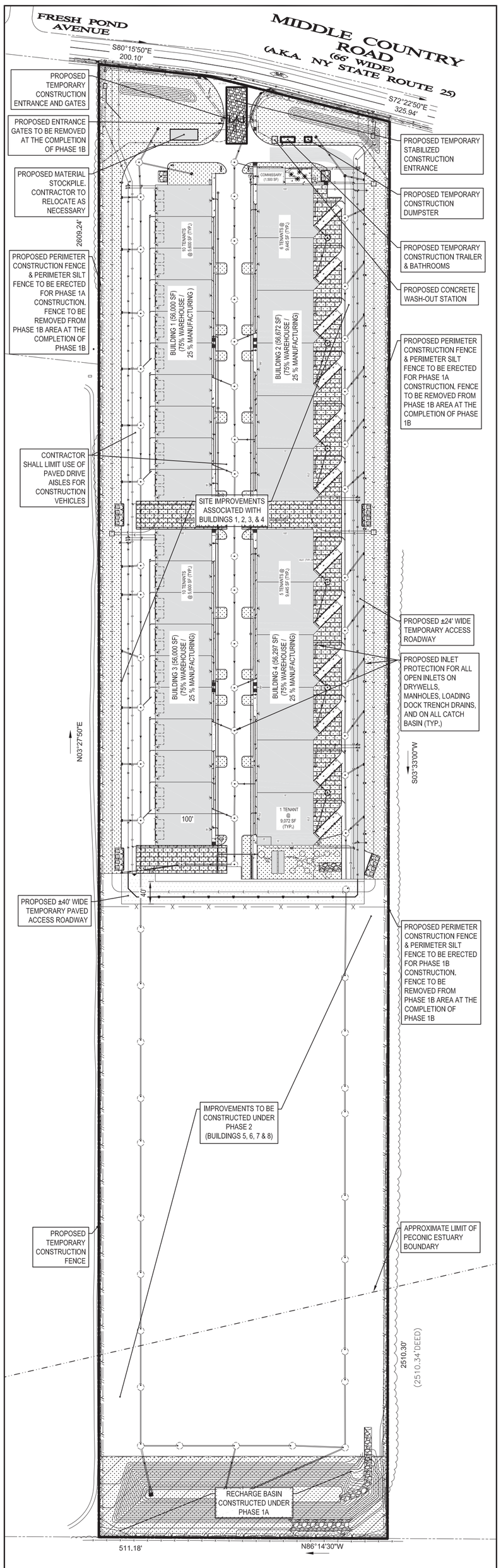
PAGE No.: 29 OF 35

19026_2022.01.24_SPP6_Phasing & SE&SC Plans.dwg



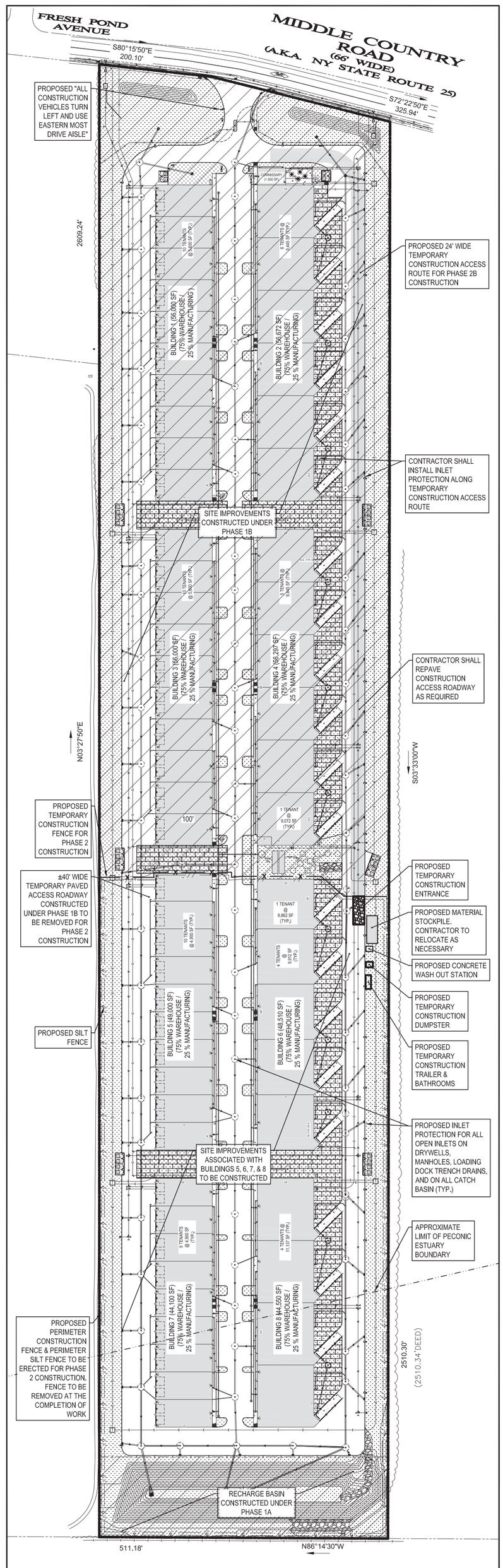

## SOIL EROSION & SEDIMENT CONTROL PLAN - PHASE 1A

SCALE: 1" = 120'




## SOIL EROSION & SEDIMENT CONTROL PLAN - PHASE 1B

SCALE: 1" = 120'




## SOIL EROSION & SEDIMENT CONTROL PLAN - PHASE 2

SCALE: 1" = 120'

### BMP IMPLEMENTATION AND MAINTENANCE SEQUENCE FOR EACH SECTION TO BE DISTURBED

| SEQUENCE DESCRIPTION | BMP ACTIVITIES | MAINTENANCE FREQUENCY |
|---|---|---|
| PRE-CONSTRUCTION | INSTALL INLET PROTECTION ON EXISTING INLETS | WEEKLY OR AS REQUIRED |
| | INSTALL PERIMETER SEDIMENT CONTROL / SILT FENCE | |
| | INSTALL STABILIZED CONSTRUCTION ACCESS | |
| | INSTALL WORK TRAILER OR MAILBOX FOR CONSTRUCTION PERMIT PAPERWORK STORAGE | |
| | IDENTIFY THE SOIL STOCKPILE STORAGE AND CONSTRUCTION STAGING AREAS | |
| EARTHWORK | APPLY DUST CONTROL | DAILY |
| | INSTALL TEMPORARY RUN-OFF AND DRAINAGE CONTROL | |
| | SWEEP THE SOIL ON ROADWAYS | |
| BUILDING CONSTRUCTION | MATERIAL STOCKPILE PERIMETER CONTROL & STABILIZATION | AS REQUIRED |
| RUN-OFF AND DRAINAGE CONTROL | INSTALL NEW DRAINAGE SYSTEM | WEEKLY OR AS REQUIRED |
| | INSTALL INLET PROTECTION FOR NEW SYSTEM | |
| GRADING, DRAINAGE, & UTILITY INSTALLATION AND STABILIZATION | GRADE SITE AREAS | AS REQUIRED |
| | STABILIZE EXPOSED AREAS | |
| | INSTALL EROSION CONTROL MEASURES | |
| FINALIZE GRADING | REMOVE TEMPORARY ESC MEASURES | MONTHLY OR AS REQUIRED |
| POST CONSTRUCTION STORMWATER MANAGEMENT AND INTERCONNECTING PIPE | CLEAN ALL DRAINAGE STRUCTURES AND PIPE THAT MAY HAVE RECEIVED RUNOFF | ANNUALLY OR AS REQUIRED |
| **INSPECTIONS REQUIRED** | | |
| PRE-CONSTRUCTION | INSPECT SEDIMENT BASINS, PERIMETER SEDIMENT CONTROLS, STABILIZED CONSTRUCTION ACCESS, INLET PROTECTION, AND OTHER BMPS | UPDATE SWPPP AS REQUIRED |
| TRAINED CONTRACTOR: DAILY | | |
| QUALIFIED INSPECTOR: 2 / SEVEN CALENDAR DAYS WITH TWO DAYS MINIMUM BETWEEN INSPECTIONS | | |
| POST FINAL STABILIZATION | | |

NOTES:
1. BMP ACTIVITIES IDENTIFIED FOR EACH SECTION DESCRIPTION SHALL BE IMPLEMENTED AT THE START OF EACH SEQUENCE AND BE MAINTAINED UNTIL PERMANENT STABILIZATION IS ACHIEVED.
2. IMPLEMENTATION OF BMP ACTIVITIES SHALL IN NO WAY RELIEVE THE CONTRACTOR OF OBLIGATIONS REGARDING OTHER CONSTRUCTION ACTIVITIES AND TIME FRAMES.
3. IN AREAS WHERE SOIL DISTURBANCE ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN SEVEN DAYS FROM THE DATE THE SOIL DISTURBANCE ACTIVITY CEASED.

### PHASE 1A

- AREA OF DISTURBANCE = ±468,097 SF (10.75 ACRES)
- NYSDEC HAS PRELIMINARILY APPROVED THE DISTURBANCE OF MORE THAN 5 ACRES AT ONE TIME.
- CONSTRUCTION SHALL BE STABILIZED TO THE SATISFACTION OF THE ENGINEER OF RECORD PRIOR TO THE DISTURBANCE OF ANOTHER PHASE.

### PHASE 1B

- AREA OF DISTURBANCE = ±550,763 SF (12.64 ACRES)
- NYSDEC HAS PRELIMINARILY APPROVED THE DISTURBANCE OF MORE THAN 5 ACRES AT ONE TIME.
- CONSTRUCTION SHALL BE STABILIZED TO THE SATISFACTION OF THE ENGINEER OF RECORD PRIOR TO THE DISTURBANCE OF ANOTHER PHASE.
- CONTRACTOR SHALL FILE FOR A TEMPORARY CEASE WORK AT THE END OF THIS PHASE OF CONSTRUCTION. REFER TO SHEET C-2, SOIL EROSION & SEDIMENT CONTROL NOTES.

### PHASE 2

- AREA OF DISTURBANCE = ±299,024 SF (6.86 ACRES)
- NYSDEC HAS PRELIMINARILY APPROVED THE DISTURBANCE OF MORE THAN 5 ACRES AT ONE TIME.
- CONTRACTOR SHALL FILE FOR NOTICE OF TERMINATION (NOT) AT THE END OF THIS PHASE OF CONSTRUCTION. REFER TO SHEET C-2, SOIL EROSION & SEDIMENT CONTROL NOTES.

**ALL CLEARING ACTIVITIES SHALL OCCUR FROM DECEMBER 1ST THROUGH FEBRUARY 28TH IN ORDER TO PROTECT THE NORTHERN LONG EARED BAT (NLEB) FROM UNINTENTIONAL HARM. CLEARING ACTIVITIES OUTSIDE OF THE ABOVE MENTIONED WINDOW SHALL ONLY OCCUR WITH THE EXPRESSED WRITTEN CONSENT OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC).**

**OVERALL SOIL EROSION & SEDIMENT CONTROL PLAN FOR SCHEMATIC PURPOSES ONLY. CONTRACTOR SHALL RELOCATE ALL SE&SC MEASURES AS NECESSARY THROUGHOUT CONSTRUCTION.**

**CONTRACTOR SHALL REFER TO SHEET C-29, OVERALL CONSTRUCTION PHASING PLAN FOR SEQUENCING OF CONSTRUCTION**

NEW YORK CITY ONE CALL CENTER 1-800-272-4480 STOP-CALL-THEN DIG Safely

GRAPHIC SCALE
120 0 60 120 240 480
( IN FEET )
1 inch = 120 ft.

| No. | DATE | BY | DESCRIPTION |
|---|---|---|---|
| | | | |
| | | | |
| 6 | 01/24/2022 | LC | MISCELLANEOUS COORDINATION |
| 5 | 12/15/2021 | LC | FEIS SUBMISSION |
| 4 | 04/02/2021 | LC | RESUBMISSION TO TOWN |
| 3 | 06/22/2020 | LC | MISCELLANEOUS COORDINATION |
| 2 | 06/03/2020 | LC | ISSUED FOR TOWN SUBMISSION |
| 1 | 05/15/2020 | LC | ISSUED FOR REVIEW |

REVISIONS

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SEAL & SIGNATURE:

STATE OF NEW YORK · JACLYN R. PERANTEAU · NOT VALID WITHOUT SEAL · 083937 · LICENSED PROFESSIONAL ENGINEER

JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

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DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

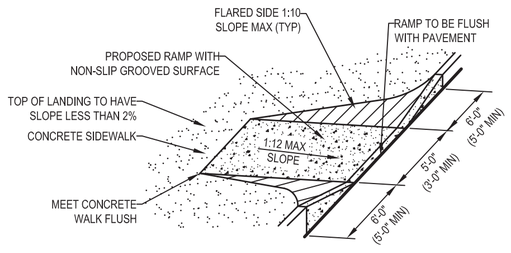
DRAWING TITLE:

# OVERALL SOIL EROSION & SEDIMENT CONTROL PLAN

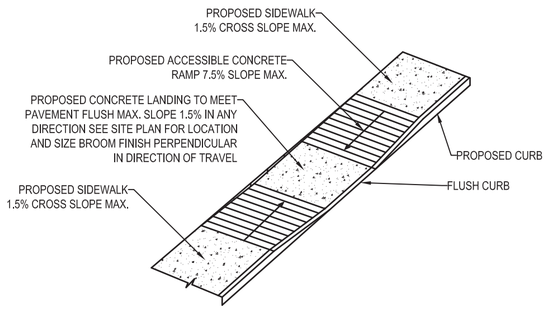
DRAWING No.: C-30

PAGE No.: 30 OF 35

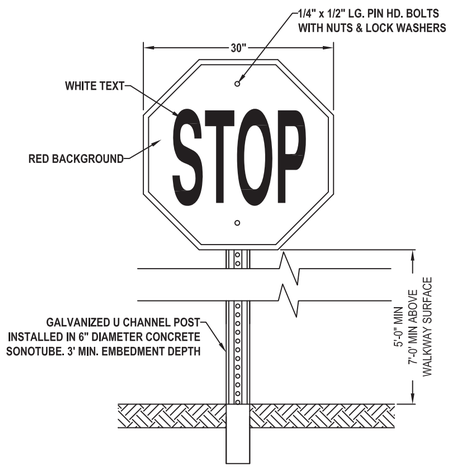
19026_2022.01.24_SPP6_Phasing & SE&SC Plans.dwg



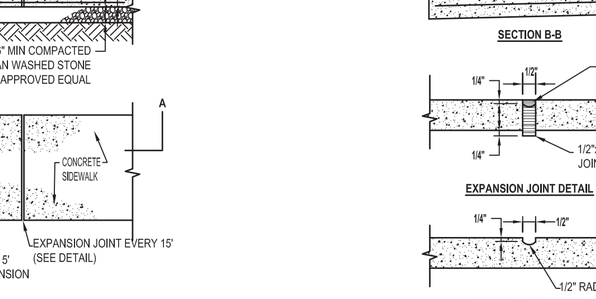

NOTE
ON-SITE RAMPS MUST CONFORM TO SECTION 406 OF ICC/ANSI A117.1-2009



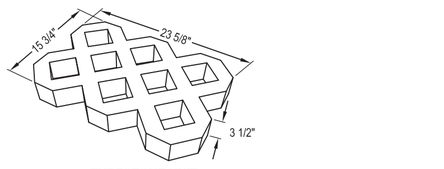

## ACCESSIBLE RAMP DETAILS
N.T.S.



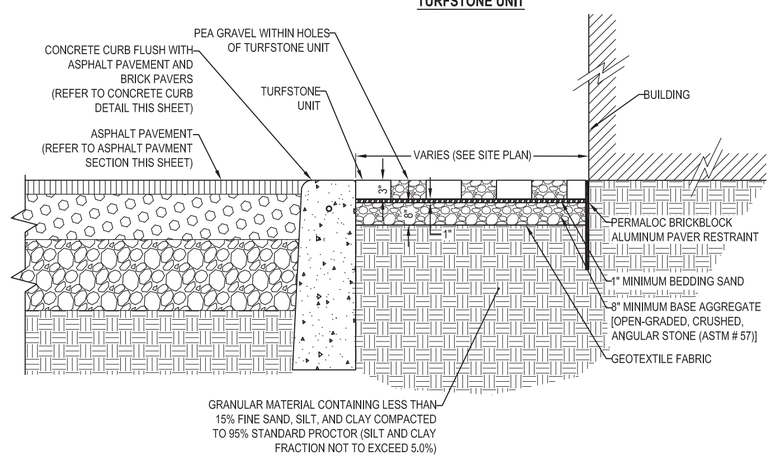

## STOP SIGN DETAIL
(MUTCD #R1-1)
N.T.S.



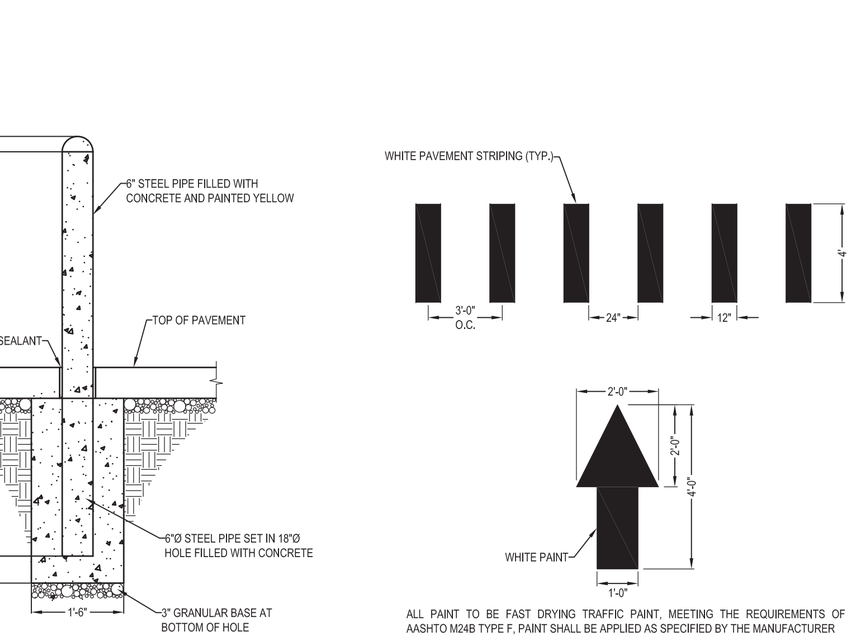

## PAINTED ACCESSIBLE & STANDARD STRIPING AREA DETAIL
N.T.S.



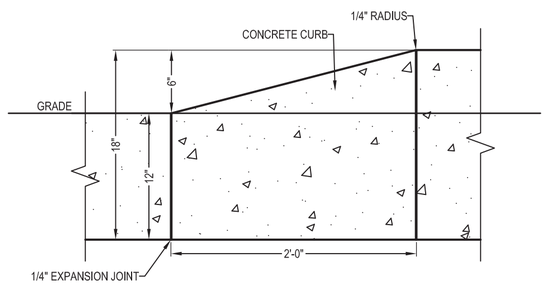

## TURFSTONE UNIT



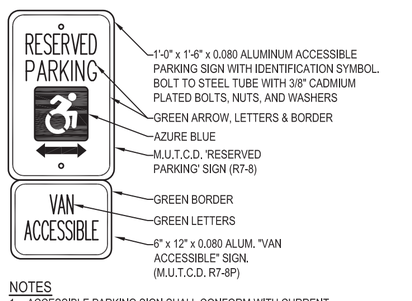

## TURFSTONE INSTALLATION DETAIL (PERVIOUS PAVERS)
TURFSTONE BY MUTUAL MATERIALS
N.T.S.




## CONCRETE SIDEWALK DETAIL
N.T.S.

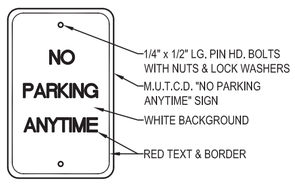



## ON-SITE CONCRETE CURB TAPER DETAIL
N.T.S.



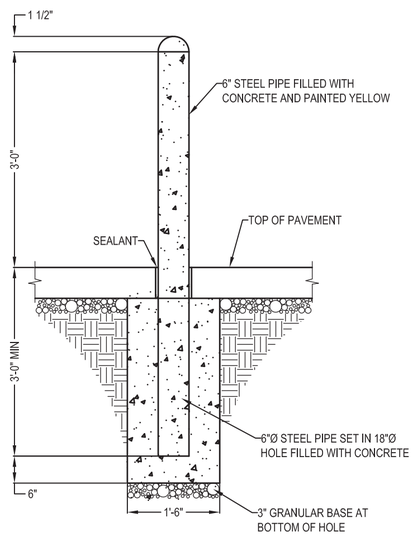

NOTES
1. ACCESSIBLE PARKING SIGN SHALL CONFORM WITH CURRENT FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS.
2. SIGN MOUNTING HEIGHT SHALL BE 60 TO 84 INCHES MEASURED FROM GROUND SURFACE OF PARKING STALLS.

## BUILDING WALL MOUNTED "RESERVED PARKING" & "VAN ACCESSIBLE" SIGN
N.T.S.




NOTES
1. 'NO PARKING ANYTIME' SIGN SHALL CONFORM WITH CURRENT FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS.
2. SIGN MOUNTING HEIGHT SHALL BE 60 TO 84 INCHES MEASURED FROM GROUND SURFACE OF PARKING STALLS.

## BUILDING WALL MOUNTED - "NO PARKING ANYTIME" SIGN
(M.U.T.C.D. #R7-1, NO ARROW) (NYR #7-4)
N.T.S.

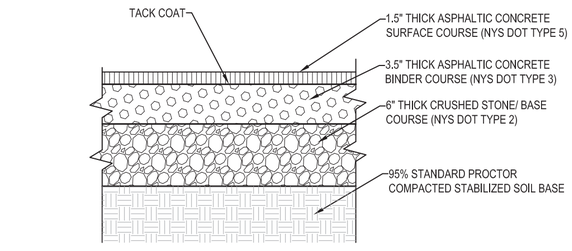



## TYPICAL BOLLARD DETAIL
N.T.S.



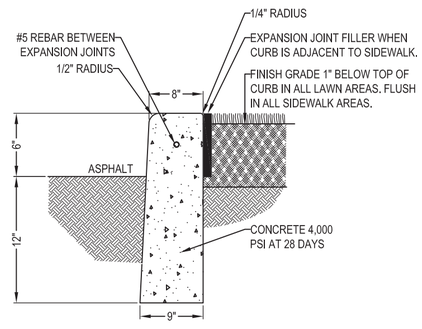

ALL PAINT TO BE FAST DRYING TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M24B TYPE F, PAINT SHALL BE APPLIED AS SPECIFIED BY THE MANUFACTURER

## ON-SITE PAINTED TRAFFIC ARROW & CROSSWALK DETAIL
N.T.S.

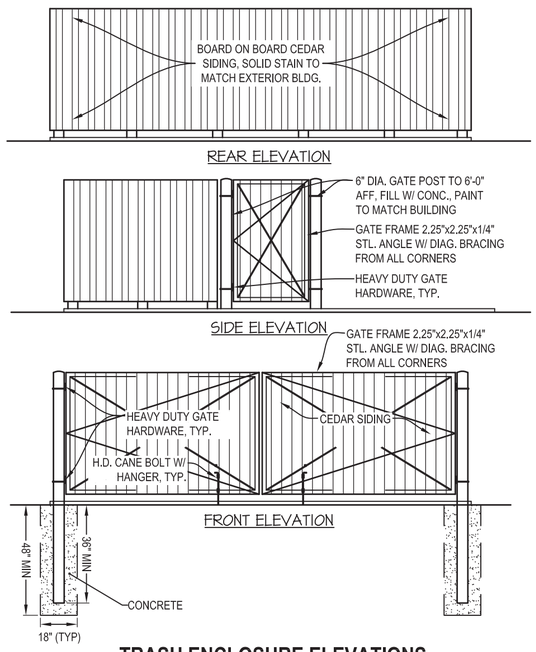



## ASPHALT PAVEMENT SECTION
(FOR USE ON-SITE)
N.T.S.

NOTES
1. ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED WITH 3/4" CLEAN CRUSHED STONE.
2. EXPANSION JOINTS SHALL BE PROVIDED AT EQUAL DISTANCES OF NOT MORE THAN 15' AND AT ALL STORM SEWER INLETS. JOINTS SHALL BE FILLED WITH PREFORMED EXPANSION JOINT FILLER, 1/2" THICK. THE JOINT SHALL BE RECESSED 1/4" FROM THE TOP AND FRONT OF THE CONCRETE CURB. CAULKING SHALL BE PROVIDED ABOVE EXPANSION JOINT, FLUSH WITH TOP OF CURB.
3. PAVEMENT REPAIR TO BE PROVIDED AS NEEDED FOR CURB REPLACEMENT.
4. THE TOP OF CURB (AT THE OUTSIDE OR NON-EXPOSED FACE) AND THE FLOW LINE OF CONCRETE GUTTER SHALL NOT VARY MORE THAN 0.01 FT. FROM A 10 FT. STRAIGHT EDGE PLACED LONGITUDINALLY ALONG THE CURB OR AT THE FLOW LINE OF THE GUTTER.
5. THE FACE OF CURB SHALL NOT VARY MORE THAN 0.03 FT. FROM A 10 FT. STRAIGHT EDGE PLACED LONGITUDINALLY ALONG THE FLOW LINE.
6. THE ELEVATION OF THE TOP OF CURB OR FLOW LINE OF GUTTER SHALL NOT VARY MORE THAN 0.02 FT. FROM THE TRUE ELEVATION LAID OUT IN THE FIELD BY THE ENGINEER.

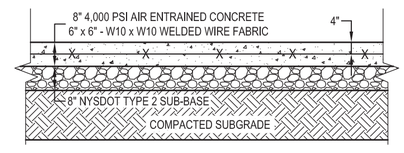



## CONCRETE CURB DETAIL
N.T.S.



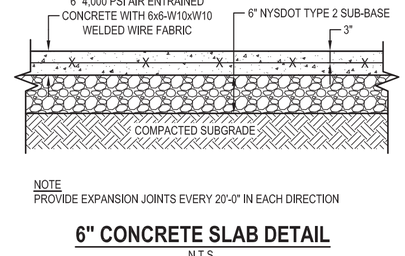

## TRASH ENCLOSURE PLAN
SCALE: N.T.S.

## TRASH ENCLOSURE ELEVATIONS
SCALE: N.T.S.




NOTE
PROVIDE EXPANSION JOINTS EVERY 20'-0" IN EACH DIRECTION

## 8" CONCRETE SLAB DETAIL
FOR USE AT LOADING DOCKS
N.T.S.




NOTE
PROVIDE EXPANSION JOINTS EVERY 20'-0" IN EACH DIRECTION

## 6" CONCRETE SLAB DETAIL
N.T.S.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER OF RECORD FOR REVIEW PRIOR TO CONSTRUCTION FOR ANY DETAIL NOT PROVIDED IN THIS PLAN SET.

| No. | DATE | BY | DESCRIPTION |
|---|---|---|---|
| | | | |
| | | | |
| 6 | 01/24/2022 | LC | MISCELLANEOUS COORDINATION |
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| 1 | 05/15/2020 | LC | ISSUED FOR REVIEW |

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SEAL & SIGNATURE

STATE OF NEW YORK * JACLYN R. PERANTEAU * 083937 LICENSED PROFESSIONAL ENGINEER

JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

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| DRAWING BY: | LC |
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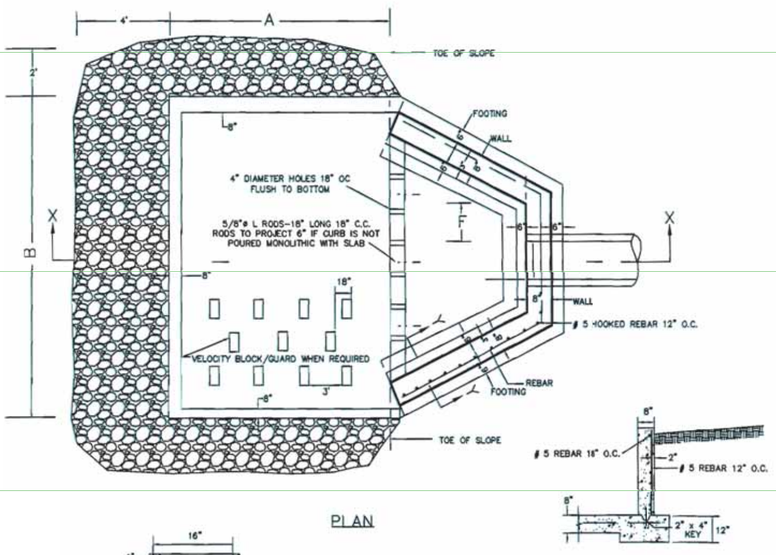
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TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:
SITE DETAILS I

DRAWING No.:
C-31

PAGE No.:
31 OF 35

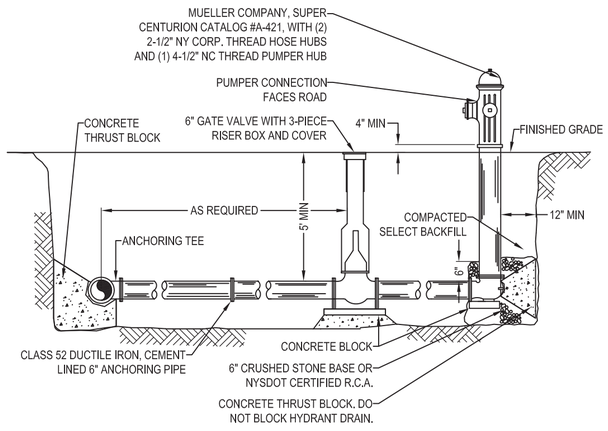
19026_2022.01.24_Details6.dwg




| DIMENSIONS | | | | | | |
|---|---|---|---|---|---|---|
| D | L | F | B | A | H | RIP-RAP |
| 24" | 9'-0" | 12" | 10'-0" | 10'-0" | 4'-0" | 4'-0" |
| 30" | 10'-6" | 18" | 12'-0" | 12'-0" | 4'-6" | 6'-0" |
| 36" | 12'-0" | 24" | 14'-0" | 14'-0" | 5'-0" | 8'-0" |
| 42" | 13'-6" | 30" | 16'-0" | 16'-0" | 5'-6" | 10'-0" |

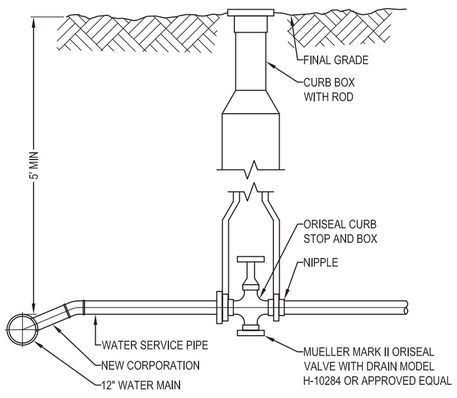
NOTES:
1. ALL CONCRETE TO BE 4000 PSI @ 28 DAYS.
2. ALL PRECAST CONCRETE STRUCTURES MUST MEET ACI CODE AND SPECIFICATIONS.
3. ALL STRUCTURES MUST BE MANUFACTURED AT AN ACI CERTIFIED PLANT, A COPY OF A CERTIFICATION MUST BE ON FILE WITH THE TOWN.

## CONCRETE HEADWALL DETAIL
N.T.S.



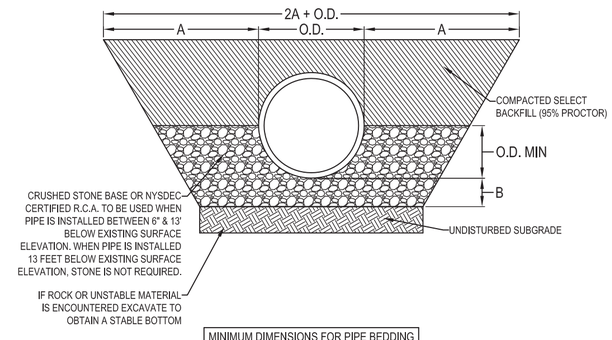

NOTES
1. IF GROUNDWATER IS ENCOUNTERED WITHIN 7 FEET OF FINISH GRADE, HYDRANT DRAIN HOLES SHALL BE PLUGGED.
2. CONTRACTOR TO COORDINATE WITH TOWN OF RIVERHEAD FIRE DEPARTMENT FOR INSTALLATION REQUIREMENTS.

## HYDRANT ASSEMBLY DETAIL
N.T.S.



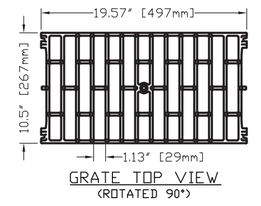

NOTE
DUCTILE IRON PIPE SHALL BE USED FOR WATER SERVICE LATERALS.

## WATER SERVICE INSTALLATION DETAIL
N.T.S.

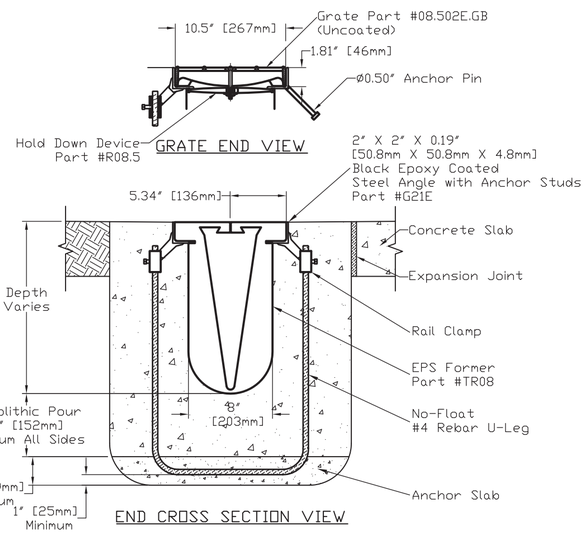



| MINIMUM DIMENSIONS FOR PIPE BEDDING | | |
|---|---|---|
| PIPE DIAMETER (INCHES) | A (INCHES) | B (INCHES) |
| UP TO 18 | 12 | 6 |
| 21 TO 36 | 12 | 9 |
| OVER 36 | 18 | 12 |

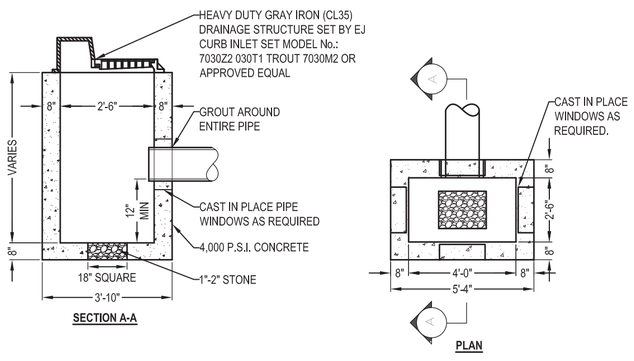
## STORMWATER / SANITARY PIPE INSTALLATION DETAIL
N.T.S.




Plan Notes
1. Series Number: TR08-08.502E.GB-G21E
2. Grates:
   - Ductile Iron per ASTM A536-84 Grade 80-55-06 (Uncoated)
   - Open Area: 0.65 FT² per Lineal Foot [0.19 M² per Lineal Meter]
   - Load Rating: 620 PSI (AASHTO M-306 Test Method)
   - Made in the USA
2. Form Release: Non-Petroleum Based
3. Concrete: Concrete Thickness and Reinforcement per Structural Engineer's Specification for the Application.

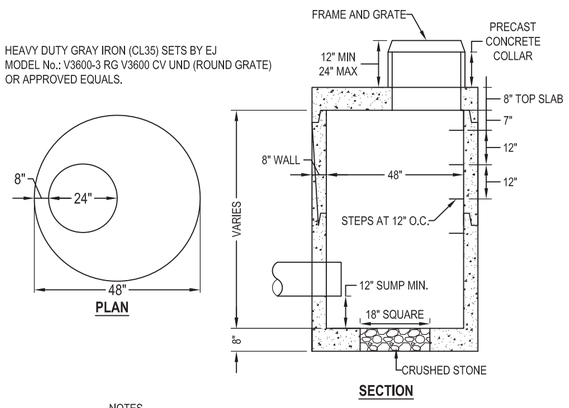



## 8" TRENCH DRAIN DETAIL
TRENCH FORMER MODEL No.: TR08-08.502E.GB-G21E
N.T.S.



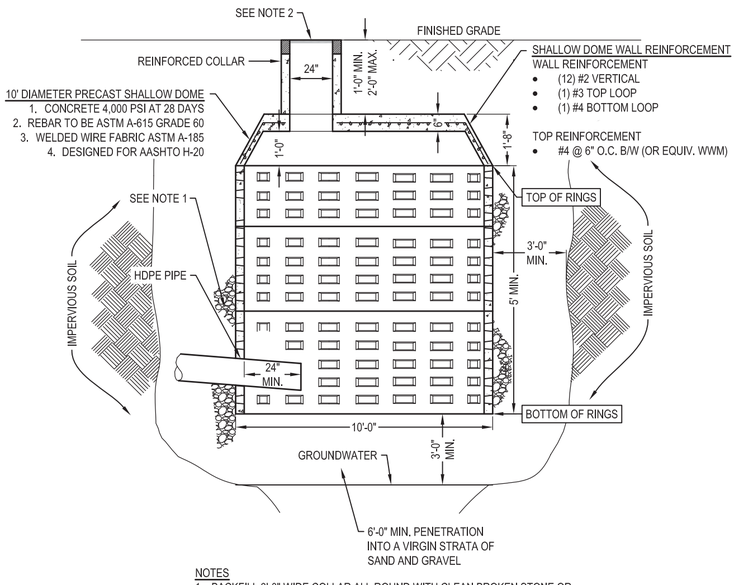

NOTES
1. STRUCTURE TO BE IN ACCORDANCE WITH ASTM C-478
2. CONCRETE 4000 PSI @ 28 DAYS.
3. REINFORCEMENT AS REQUIRED FOR H-20 LOADING

## 2'-6" x 4'-0" PRECAST CONCRETE CATCH BASIN
N.T.S.



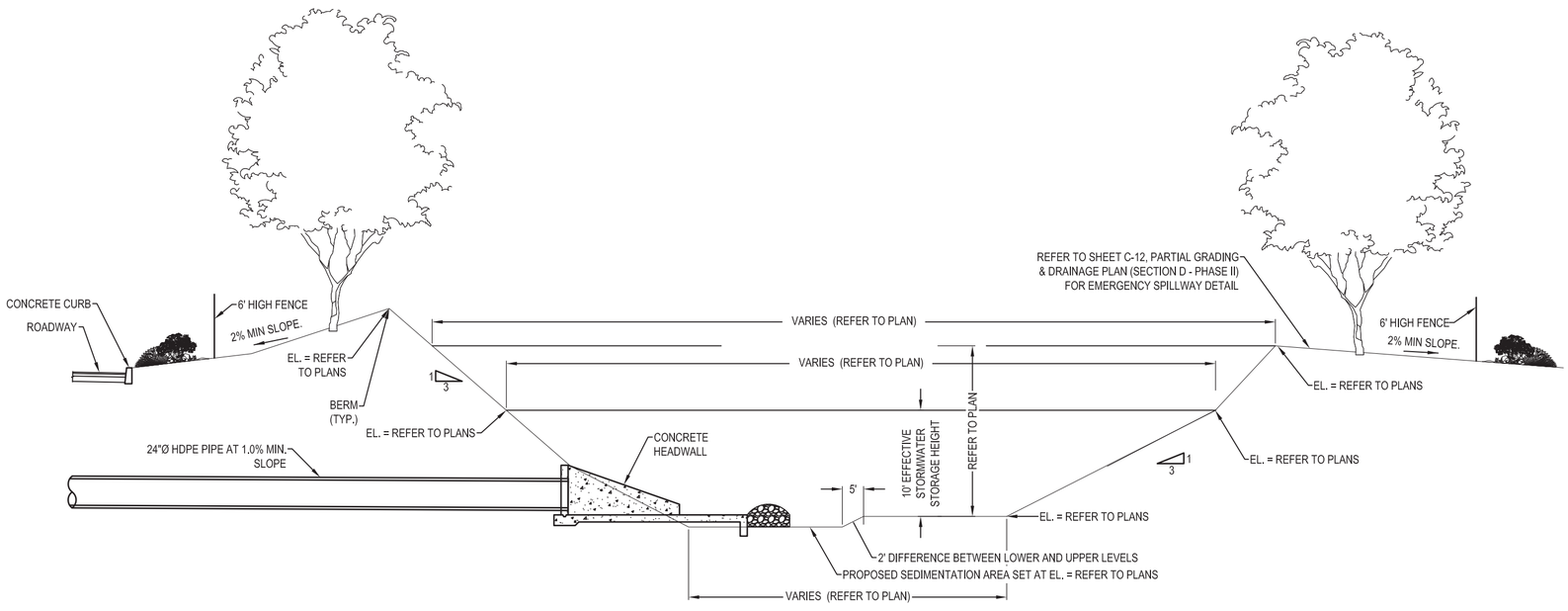

NOTES
1. MANHOLE TO SUPPORT H-20 TRAFFIC LOADING
2. CONCRETE STRENGTH 4000 PSI @ 28 DAYS
3. REBAR TO BE ASTM A-615 GRADE 60
4. WELDED WIRE FABRIC ASTM A-185

## 4'-0"Ø PRECAST CATCH BASIN DETAIL
N.T.S.

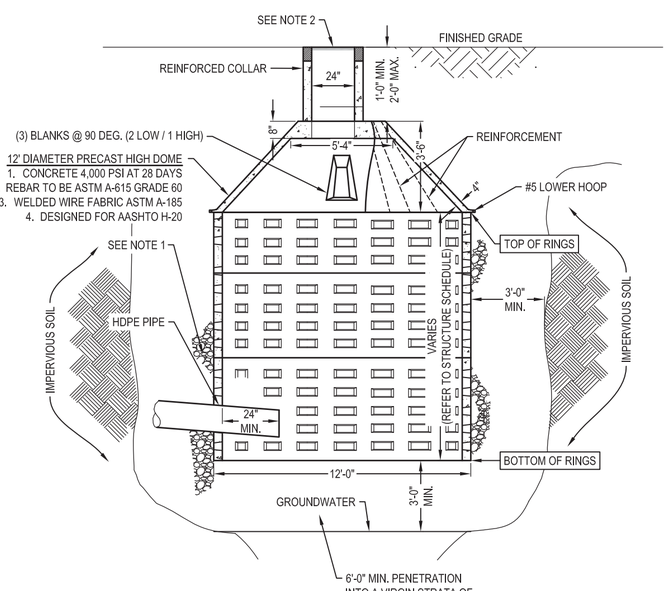



NOTES
1. BACKFILL 3'-0" WIDE COLLAR ALL ROUND WITH CLEAN BROKEN STONE OR BACKFILL WITH ONSITE SOIL IN COMPACTED 6 IN LIFTS.
2. HEAVY DUTY GRAY IRON (CL35) SETS BY EJ:
   MODEL No: V3600-3 RG V3600 CV UND (ROUND GRATE)
   MODEL No: V1600-3 RG REV/CPH2 CV UND (ROUND COVER)
   OR APPROVED EQUALS.

## 10'Ø LOADING DOCK DRYWELL WITH SHALLOW DOME DETAIL
N.T.S.

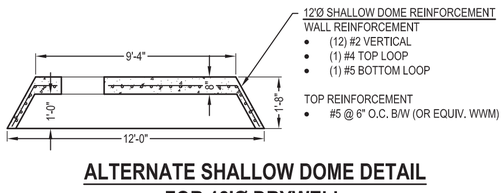



## TYPICAL RECHARGE BASIN DETAIL
N.T.S.




NOTES
1. BACKFILL 3'-0" WIDE COLLAR ALL ROUND WITH CLEAN BROKEN STONE OR BACKFILL WITH ONSITE SOIL IN COMPACTED 6 IN LIFTS.
2. HEAVY DUTY GRAY IRON (CL35) SETS BY EJ:
   MODEL No: V3600-3 RG V3600 CV UND (ROUND GRATE)
   MODEL No: V1600-3 RG REV/CPH2 CV UND (ROUND COVER)
   OR APPROVED EQUALS.

## 12'Ø DRYWELL WITH HIGH DOME DETAIL
N.T.S.




## ALTERNATE SHALLOW DOME DETAIL FOR 12'Ø DRYWELL
N.T.S.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER OF RECORD FOR REVIEW PRIOR TO CONSTRUCTION FOR ANY DETAIL NOT PROVIDED IN THIS PLAN SET.

| No. | DATE | BY | DESCRIPTION |
|---|---|---|---|
| | | | |
| | | | |
| 6 | 01/24/2022 | LC | MISCELLANEOUS COORDINATION |
| 5 | 12/15/2021 | LC | FEIS SUBMISSION |
| 4 | 04/02/2021 | LC | RESUBMISSION TO TOWN |
| 3 | 06/22/2020 | LC | MISCELLANEOUS COORDINATION |
| 2 | 06/03/2020 | LC | ISSUED FOR TOWN SUBMISSION |
| 1 | 05/15/2020 | LC | ISSUED FOR REVIEW |

REVISIONS

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SEAL & SIGNATURE




JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

| | |
|---|---|
| DATE: | 01/24/2020 |
| SCALE: | N.T.S. |
| PROJECT No.: | 19026 |
| DRAWING BY: | LC |
| CHECKED BY: | YT |
| APPROVED BY: | JP |

CIVIL ENGINEERING
664 BLUE POINT ROAD, UNIT B
HOLTSVILLE, NEW YORK 11742
(631) 961-0506
www.KeyCivilEngineering.com

PROJECT NAME:

**HK VENTURES, LLC INDUSTRIAL PARK**

4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:

SITE DETAILS II

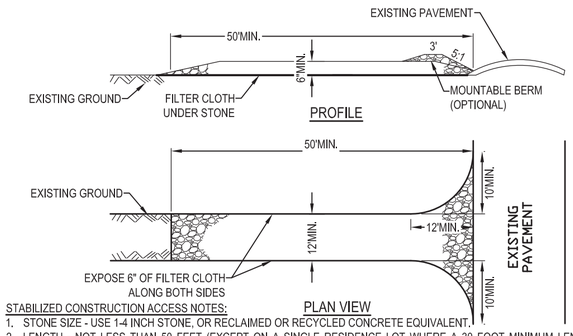
DRAWING No.:

C-32

PAGE No.:

32 OF 35

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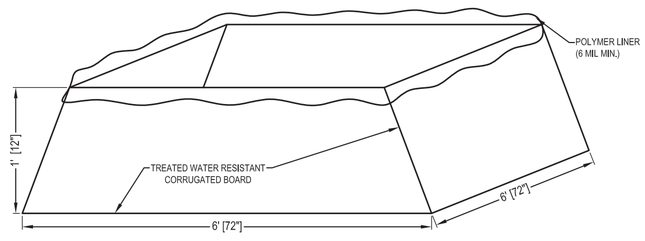



STABILIZED CONSTRUCTION ACCESS NOTES:

1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED. THIS AREA SHALL BE GRADED SO THAT RUNOFF WATER WILL BE RETAINED ON-SITE.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
10. CONTRACTOR TO ENSURE THAT THE TRACKING PREVENTION REMAINS EFFECTIVE DURING ALL CONSTRUCTION PHASES.
11. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERCOURSES.
12. CONTRACTOR TO RELOCATE TRACKING PADS AS NECESSARY.
13. EXPOSE 6" END OF FILTER CLOTH ON BOTH OF THE LONGER SIDES FOR THE ENTIRE LENGTH.

## STABILIZED CONSTRUCTION ACCESS

N.T.S.

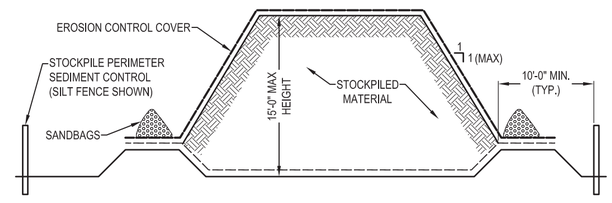



CONCRETE WASHOUT NOTES:

1. THE CONCRETE WASHOUT(S) SHALL BE INSTALLED PRIOR TO THE DELIVERY OR PLACEMENT OF CONCRETE.
2. WHEN DEEMED NECESSARY BY THE ENGINEER THE CONTRACTOR SHALL PLACE SIGNS THROUGHOUT THE SITE TO INDICATE THE LOCATION OF THE CONCRETE WASHOUT(S).
3. THE CONCRETE WASHOUT AREA SHALL BE REPLACED AS NECESSARY AND/OR AOBE TO MAINTAIN CAPACITY FOR LIQUID WASTE.
4. CONCRETE WASHOUT RESIDUE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED FACILITY.
5. UNDER NO CIRCUMSTANCES ARE DRAINAGE STRUCTURES, OPEN DITCHES, STREETS, OR STREAMS TO BE USED FOR CONCRETE WASHOUT LOCATIONS.
6. LOCATE CONCRETE WASHOUT AT LEAST 50' FROM ALL DRAINAGE FACILITIES, OPEN DITCHES, AND OTHER WATER BODIES.
7. THE CONCRETE WASHOUT SHALL BE USED FOR THE WASHING OF PORTLAND CEMENT CONCRETE RELATED ITEMS (TRANSIT-MIX TRUCKS, TOOLS, MIXERS, ETC.) ONLY.

## CONCRETE TRUCK/MIXER WASHOUT AND GROUT WASTE

ITEM 209-06
N.T.S.

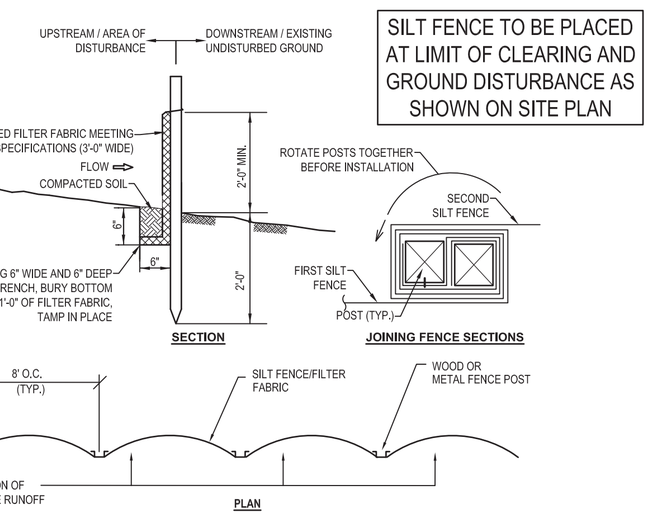



STOCKPILE NOTES:

1. STOCKPILE MANAGEMENT INCLUDES MEASURES TO MINIMIZE EROSION AND SEDIMENT TRANSPORT FROM SOILS OR OTHER ERODIBLE MATERIALS STORED AT THE CONSTRUCTION SITE. SPECIAL ATTENTION SHOULD BE GIVEN TO STOCKPILES IN CLOSE PROXIMITY TO NATURAL OR MANMADE STORM SYSTEMS. PROTECTION OF STOCKPILES IS A YEAR-ROUND REQUIREMENT.
2. THIS DETAIL DOES NOT APPLY TO CONTAMINATED MATERIALS WHICH REQUIRE ADDITIONAL MEASURES.
5. LOCATE STOCKPILES AS FAR AWAY FROM BODIES OF WATER, INFILTRATION AREAS, INLETS, AND OTHER DRAINAGE SYSTEM COMPONENTS AS POSSIBLE SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
6. WEEDS SHOULD NOT BE ALLOWED TO GROW ON STOCKPILES.
7. WHEN THE STOCKPILE IS NO LONGER NEEDED, PROPERLY DISPOSE OF EXCESS MATERIALS AND RE-VEGETATE OR OTHERWISE STABILIZE THE GROUND SURFACE WHERE THE STOCKPILE WAS LOCATED.
8. FOR STOCKPILES MAINTAINED FOR MORE THAN ONE DAY, A SEDIMENT CONTROL SYSTEM, CONSISTING OF SILT FENCING OR COIR LOG, SHALL BE INSTALLED AND MAINTAINED ON DOWNHILL SIDES TO CONTAIN MATERIAL.
   - 8.1. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWN-GRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.
   - 8.2. PROTECT ALL STOCKPILES FROM STORMWATER RUN-ON.
   - 8.3. FOR STOCKPILES IN ACTIVE USE, PROVIDE A STABILIZED DESIGNATED ACCESS POINT ON THE UPGRADIENT SIDE OF THE STOCKPILE.
   - 8.4. SEDIMENTS SHALL BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES ONE-THIRD (1/3) OF THE BARRIER HEIGHT.
   - 8.5. INSPECT STOCKPILE SEDIMENT CONTROL SYSTEM IMMEDIATELY AFTER MODIFYING STOCKPILE.
   - 8.6. REPAIR AND/OR REPLACE PERIMETER CONTROLS AND COVERS AS NEEDED, OR AS DIRECTED BY THE ENGINEER, TO KEEP THEM FUNCTIONING PROPERLY.
9. THE TOE OF STOCKPILES SHALL NOT BE SITE PERIMETER SEDIMENT CONTROL.
10. FOR STOCKPILES INACTIVE FOR MORE THAN 14 DAYS, STABILIZE THE STOCKPILE TO PREVENT SEDIMENT TRANSPORT USING AN EROSION CONTROL SYSTEM, CONSISTING OF TEMPORARY SEEDING AND MULCHING, PLASTIC / GEOTEXTILE COVERING, SOIL BINDERS, OR EROSION CONTROL BLANKETS. USE OF MULCH OR SOIL BINDERS ONLY IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR NO MORE THAN 60 DAYS.
11. IMPLEMENT DUST CONTROL PRACTICES AS APPROPRIATE ON ALL STOCKPILED MATERIAL.

## MATERIAL STOCKPILE

N.T.S.



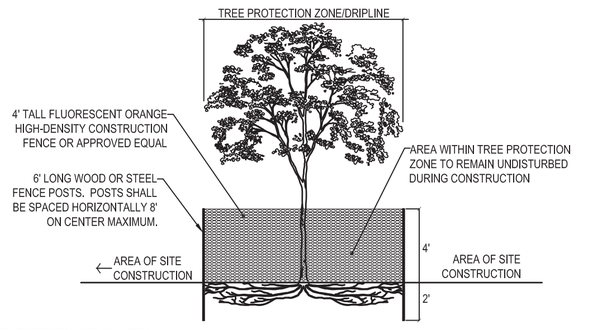

SILT FENCE TO BE PLACED AT LIMIT OF CLEARING AND GROUND DISTURBANCE AS SHOWN ON SITE PLAN

STANDARD SILT FENCE NOTES:

1. THE SLOPE OF THE LAND FOR AT LEAST 30 FEET ADJACENT AND UPSTREAM TO STANDARD SILT FENCE SHALL NOT EXCEED 5 %.
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER THE END POSTS SHALL BE ROLLED TOGETHER A MINIMUM OF 3 TIMES.
3. SILT FENCE SHALL BE INSTALLED SO WATER CANNOT BYPASS THE FENCE AROUND THE ENDS.
4. SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE DIRECTED BY THE GOVERNING AGENCY.
5. DO NOT PLACE MATERIAL AGAINST SILT FENCE.
6. INSPECT SILT FENCE IMMEDIATELY AFTER PLACING ANY MATERIAL NEARBY.
7. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY.

## STANDARD SILT FENCE

N.T.S.




TREE PROTECTION FENCE NOTES:

1. TREE PROTECTION FENCE SHALL BE INSTALLED TO FOLLOW TREE CANOPY DRIP LINE OR PROPOSED LIMITS OF DISTURBANCE.
2. CONSTRUCTION VEHICLES TO STAY AS FAR AS POSSIBLE FROM TREE PROTECTION FENCE TO PREVENT COMPACTION OF TREE ROOTS.

## TREE PROTECTION FENCE

N.T.S.

DEFINITION
THE CONTROL OF DUST RESULTING FROM LAND-DISTURBING ACTIVITIES.

PURPOSE
TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM DISTURBED SOIL SURFACES THAT MAY CAUSE OFF-SITE DAMAGE, HEALTH HAZARDS, AND TRAFFIC SAFETY PROBLEMS.

CONDITIONS WHERE PRACTICE APPLIES
ON CONSTRUCTION ROADS, ACCESS POINTS, AND OTHER DISTURBED AREAS SUBJECT TO SURFACE DUST MOVEMENT AND DUST BLOWING WHERE OFF-SITE DAMAGE MAY OCCUR IF DUST IS NOT CONTROLLED.

DESIGN CRITERIA
CONSTRUCTION OPERATIONS SHOULD BE SCHEDULED TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT ONE TIME. BUFFER AREAS OF VEGETATION SHOULD BE LEFT WHERE PRACTICAL. TEMPORARY OR PERMANENT STABILIZATION MEASURES SHALL BE INSTALLED. NO SPECIFIC DESIGN CRITERIA IS GIVEN; SEE CONSTRUCTION SPECIFICATIONS BELOW FOR COMMON METHODS OF DUST CONTROL.

WATER QUALITY SHOULD BE CONSIDERED WHEN MATERIALS ARE SELECTED FOR DUST CONTROL. WHERE THER IS A POTENTIAL FOR THE MATERIAL TO WASH OFF TO A STREAM, INGREDIENT INFORMATION MUST BE PROVIDED TO THE NYSDEC. NO POLYMER APPLICATION SHALL TAKE PLACE WITHOUT WRITTEN APPROVAL FROM THE NYSDEC.

CONSTRUCTION SPECIFICATIONS

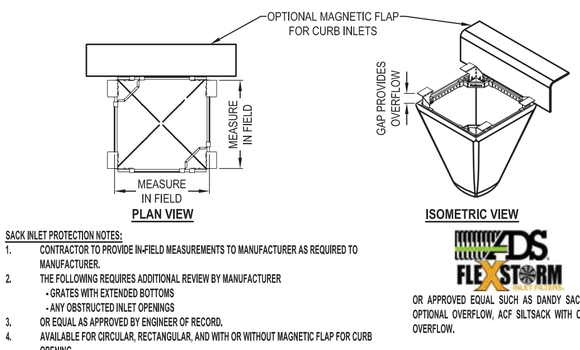
A NON-DRIVING AREAS:
VEGETATIVE COVER - TEMPORARY SEEDING SHALL BE AS FOLLOWS:
A) RYE GRASS (ANNUAL OR PERENNIAL) AT 30 LBS. PER ACRE (0.7LBS/100OSF)
B) CERTIFIED "AROOSTOOK" WINTER RYE (CEREAL RYE) AT 100 LBS. PER ACRE (2.5 LBS/SF)
USE WINTER RYE IF SEEDING IN OCTOBER/NOVEMBER.
MULCH (INCLUDING GRAVEL MULCH) - MULCH OFFERS A FAST EFFECTIVE MEANS OF CONTROLLING DUST.
SPRAY ADHESIVES - EXAMPLES OF SPRAY ADHESIVES FOR USE ON MINERAL SOILS ARE SHOWN IN THE FOLLOWING TABLE:

| MATERIAL | WATER DILUTION | NOZZLE TYPE | APPLY GALLONS/ACRE |
|---|---|---|---|
| ACRYLIC POLYMER | 8:1 | COURSE SPRAY | 500 |
| LATEX EMULSION | 12.5:1 | FINE SPRAY | 235 |
| RESIN IN WATER | 4:1 | FINE SPRAY | 300 |

B DRIVING AREAS:
SPRINKLING - THE SITE MAY BE SPRAYED UNTIL THE SURFACE IS WET. THIS IS ESPECIALLY EFFECTIVE ON HAUL ROADS AND ACCESS ROUTES TO PROVIDE SHORT TERM LIMITED DUST CONTROL.
POLYMER ADDITIVES - POLYMERS ARE MIXED WITH WATER AND APPLIED TO THE DRIVING SURFACE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
BARRIERS - WOVEN GEO-TEXTILES CAN BE PLACED ON THE DRIVING SURFACE. STONE CAN ALSO BE USED FOR CONSTRUCTION ROADS.
WINDBREAK - A SILT FENCE OR SIMILAR BARRIER CAN CONTROL AIR CURRENTS AT INTERVALS EQUAL TO TEN TIMES THE BARRIER HEIGHT. PRESERVE EXISTING WIND BARRIER VEGETATION AS MUCH AS PRACTICAL.

MAINTENANCE
MAINTAIN DUST CONTROL MEASURES THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS ARE STABILIZED.

## DUST CONTROL




SACK INLET PROTECTION NOTES:

1. CONTRACTOR TO PROVIDE IN-FIELD MEASUREMENTS TO MANUFACTURER AS REQUIRED TO MANUFACTURER.
2. THE FOLLOWING REQUIRES ADDITIONAL REVIEW BY MANUFACTURER
   - GRATES WITH EXTENDED BOTTOMS
   - ANY OBSTRUCTED INLET OPENINGS
3. OR EQUAL AS APPROVED BY ENGINEER OF RECORD.
4. AVAILABLE FOR CIRCULAR, RECTANGULAR, AND WITH OR WITHOUT MAGNETIC FLAP FOR CURB OPENING.

## TYPE V EXAMPLE - SACK INLET PROTECTION

N.T.S.

GEOTEXTILE, FILTER FABRIC, OR SILT FENCE FABRIC PLACED UNDER INLET GRATE IS NOT AN ACCEPTABLE STORMWATER MANAGEMENT PRACTICE

**NYS STANDARD INLET PROTECTION TYPES AND USES**

| TYPE | EXAMPLE | USAGE | NOTES |
|---|---|---|---|
| 0 | FABRIC PLACED UNDER INLET GRATE | NOT PERMITTED | THIS METHOD OF INLET PROTECTION IS NOT ACCEPTABLE. |
| I | EXCAVATED DROP INLET PROTECTION | DURING INITIAL OVERLOT GRADING AFTER THE STORM DRAIN TRUNK IS INSTALLED | MAXIMUM SIDE SLOPES OF 2:1.<br>MINIMUM DEPTH 1 FOOT.<br>MAXIMUM DEPTH 2 FEET.<br>CONTAIN 900 CF PER TRIBUTARY ACRE. |
| II | FABRIC DROP INLET PROTECTION | DURING FINAL ELEVATION GRADING PHASES AFTER THE STORM DRAIN SYSTEM IS COMPLETED | MAX SLOPE OF 1% OF SURROUNDING AREA.<br>1.5' MAX UN-REINFORCED HEIGHT OF FABRIC.<br>MAINTAIN OVERFLOW TO DROP INTO THE DROP INLET. |
| III | STONE & BLOCK DROP INLET PROTECTION | DURING THE INITIAL AND INTERMEDIATE OVERLOT GRADING OF A CONSTRUCTION SITE | MINIMUM STONE BARRIER HEIGHT OF 1'.<br>MAXIMUM STONE BARRIER HEIGHT OF 2'.<br>DO NOT USE MORTAR.<br>LIMIT HEIGHT TO PREVENT PONDING OR BYPASS FLOW. |
| IV | PAVED SURFACE INLET PROTECTION | USED AFTER PAVEMENT CONSTRUCTION HAS BEEN DONE WHILE FINAL GRADING AND SOIL STABILIZATION IS OCCURRING | USE WITH UPSTREAM BUFFER STRIPS AND WITH TEMPORARY SURFACE STABILIZATION.<br>PLACE AT INLET PERIMETER OR BEYOND.<br>INTEGRATE TRAFFIC SAFETY.<br>DO NOT CAUSE FLOODING OR BYPASS FLOW. |
| V | MANUFACTURED INSERT INLET PROTECTION | INSTALLED AND ANCHORED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND DESIGN DETAILS | FABRIC WILL EQUAL OR EXCEED THE PERFORMANCE STANDARD FOR THE SILT FENCE FABRIC. THE INSERTS WILL BE INSTALLED TO PRESERVE A MINIMUM OF 50% OF THE OPEN UNOBSTRUCTED DESIGN FLOW AREA OF THE STORM DRAIN INLET OPENING. |

**SOIL RESTORATION REQUIREMENTS DURING CONSTRUCTION ACTIVITY**

| TYPE OF SOIL DISTURBANCE | SOIL RESTORATION REQUIREMENT | | COMMENTS/EXAMPLES |
|---|---|---|---|
| NO SOIL DISTURBANCE | RESTORATION NOT PERMITTED | | PRESERVATION OF NATURAL FEATURES |
| MINIMAL SOIL DISTURBANCE | RESTORATION NOT REQUIRED | | CLEARING AND GRUBBING |
| AREAS WHERE TOPSOIL IS STRIPPED ONLY - NO CHANGE IN GRADE | HYDROLOGIC SOIL GROUP A & B | HYDROLOGIC SOIL GROUP C & D | PROTECT AREA FROM ANY ONGOING CONSTRUCTION ACTIVITIES. |
| | APPLY 6 INCHES OF TOPSOIL | AERATE* AND APPLY 6 INCHES OF TOPSOIL | |
| AREAS OF CUT OR FILL | HYDROLOGIC SOIL GROUP A & B | HYDROLOGIC SOIL GROUP C & D | - |
| | AERATE* AND APPLY 6 INCHES OF TOPSOIL | APPLY FULL SOIL RESTORATION** | |
| HEAVY TRAFFIC AREAS ON SITE (ESPECIALLY IN A ZONE 5-25 FEET AROUND BUILDINGS BUT NOT WITHIN A 5 FOOT PERIMETER AROUND FOUNDATION WALLS) | APPLY FULL SOIL RESTORATION (DECOMPACTION AND COMPOST ENHANCEMENT) | | - |
| AREAS WHERE RUNOFF REDUCTION AND/OR INFILTRATION PRACTICES ARE APPLIED | RESTORATION NOT REQUIRED, BUT MAY BE APPLIED TO ENHANCE THE REDUCTION SPECIFIED FOR APPROPRIATE PRACTICES. | | KEEP CONSTRUCTION EQUIPMENT FROM CROSSING THESE AREAS. TO PROTECT NEWLY INSTALLED BMP FROM ANY ONGOING CONSTRUCTION ACTIVITIES, CONSTRUCT A FENCE AROUND BMP. |
| REDEVELOPMENT PROJECTS | SOIL RESTORATION IS REQUIRED ON REDEVELOPMENT PROJECTS IN AREAS WHERE EXISTING IMPERVIOUS AREA WILL BE CONVERTED TO PERVIOUS AREA. | | - |

* AERATION INCLUDES THE USE OF MACHINES SUCH AS TRACTOR-DRAWN IMPLEMENTS WITH COULTERS MAKING A NARROW SLIT IN THE SOIL, A ROLLER WITH MANY SPIKES MAKING INDENTATIONS IN THE SOIL, OR PRONGS WHICH FUNCTION LIKE A MINI-SUBSOILER.
** PER "DEEP RIPPING AND DE-COMPACTION, DEC 2008".

SOIL RESTORATION NOTES:

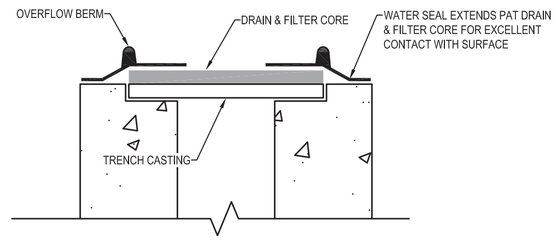
1. SOIL RESTORATION IS TO BE APPLIED TO PROPOSED VEGETATED AREAS WHERE ANY HEAVY CONSTRUCTION VEHICLE HAS BEEN OR OVER COMPACTION HAS OCCURRED AND FINAL STABILIZATION IS TO BEGIN. THIS IS GENERALLY APPLIED IN THE CLEANUP, SITE RESTORATION, AND LANDSCAPING PHASE OF CONSTRUCTION FOLLOWED BY THE PERMANENT ESTABLISHMENT OF AN APPROPRIATE GROUND COVER TO MAINTAIN THE SOIL STRUCTURE. SOIL RESTORATION MEASURES SHOULD BE APPLIED OVER AND ADJACENT TO ANY RUNOFF REDUCTION PRACTICES TO ACHIEVE DESIGN PERFORMANCE.
2. AT THE END OF THE PROJECT AN INSPECTOR SHOULD BE ABLE TO PUSH A 3/8" METAL BAR 12 INCHES INTO THE SOIL JUST WITH BODY WEIGHT. THIS SHOULD NOT BE PERFORMED WITHIN THE DRIP LINE OF ANY EXISTING TREES OR OVER UTILITY INSTALLATIONS THAT ARE WITHIN 24 INCHES OF THE SURFACE.
3. TO MAINTAIN SOIL RESTORATION, KEEP THE SITE FREE OF VEHICULAR AND FOOT TRAFFIC OR OTHER WEIGHT LOADS.

SOIL RESTORATION PROCEDURE:
DURING PERIODS OF RELATIVELY LOW TO MODERATE SUBSOIL MOISTURE, THE DISTURBED SUBSOILS ARE RETURNED TO ROUGH GRADE AND THE FOLLOWING SOIL RESTORATION STEPS APPLIED:

1. APPLY 3 INCHES OF COMPOST OVER SUBSOIL. THE COMPOST SHALL BE WELL DECOMPOSED (MATURED AT LEAST 3 MONTHS), WEED-FREE, ORGANIC MATTER. IT SHALL BE AEROBICALLY COMPOSTED, POSSESS NO OBJECTIONABLE ODORS, AND CONTAIN LESS THAN 1%, BY DRY WEIGHT, OF MAN-MADE FOREIGN MATTER. THE PHYSICAL PARAMETERS OF THE COMPOST SHALL MEET THE STANDARDS LISTED IN TABLE 5.2 - COMPOST STANDARDS TABLE OF THE NYS STANDARDS AND SPECIFICATIONSFOR EROSION AND SEDIMENT CONTROL, EXCEPT FOR "PARTICLE SIZE" 100% WILL PASS THE 1/2" SIEVE.
   - 1.1. NOTE: ALL BIOSOLIDS COMPOST PRODUCED IN NEW YORK STATE (OR APPROVED FOR IMPORTATION) MUST MEET NYS DEC'S 6 NYCRR PART 360 (SOLID WASTE MANAGEMENT FACILITIES) REQUIREMENTS. THE PART 360 REQUIREMENTS ARE EQUAL TO OR MORE STRINGENT THAN 40 CFR PART 503 WHICH ENSURE SAFE STANDARDS FOR PATHOGEN REDUCTION AND HEAVY METALS CONTENT.
2. TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR MOUNTED DISC, OR TILLER, TO MIX AND CIRCULATE AIR AND COMPOST INTO THE SUBSOIL.
3. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.
4. APPLY TOPSOIL TO A DEPTH OF 6 INCHES.
5. VEGETATE AS REQUIRED BY THE SEEDING PLAN. USE APPROPRIATE GROUND COVER WITH DEEP ROOTS TO MAINTAIN THE SOIL STRUCTURE.
6. TOPSOIL MAY BE MANUFACTURED AS A MIXTURE OR A MINERAL COMPONENT AND ORGANIC MATERIAL SUCH AS COMPOST.

## SOIL RESTORATION

N.T.S.




OR APPROVED EQUAL

SLOT GUARD INLET PROTECTION NOTES:

1. CLEAN PERIODICALLY TO PROVIDE ADEQUATE SEDIMENT HOLDING CAPACITY.
2. DEBRIS SHALL BE REMOVED DAILY.
3. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT ACCUMULATION REACHES 1 INCH.
4. TIE SLOT GUARD TO THE SLOT DRAIN WITH WIRE A MINIMUM OF EVERY 10', AT ALL ENDS, AND AS NEEDED. RECOMMENDED ATTACHMENT ON 2.5' CENTERS.

## TYPE V EXAMPLE - SLOT GUARD INLET PROTECTION FOR TRENCH DRAINS

N.T.S.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER OF RECORD FOR REVIEW PRIOR TO CONSTRUCTION FOR ANY DETAIL NOT PROVIDED IN THIS PLAN SET.

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| 1 | 05/15/2020 | LC | ISSUED FOR REVIEW |

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SEAL & SIGNATURE:

JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

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| CHECKED BY: | YT |
| APPROVED BY: | JP |

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HOLTSVILLE, NEW YORK 11742
(631) 961-0506
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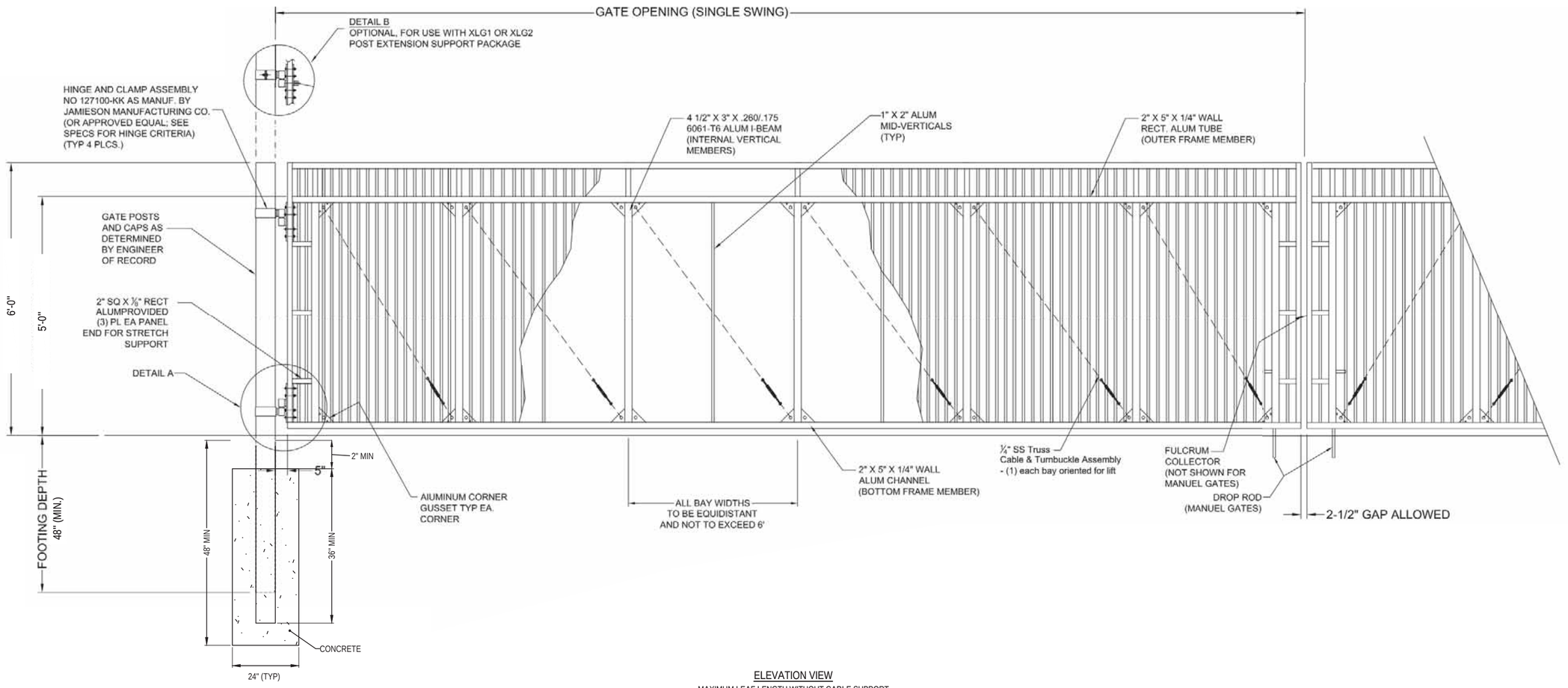
PROJECT NAME:
# HK VENTURES, LLC INDUSTRIAL PARK
4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:
SITE DETAILS III

DRAWING No.:
C-33

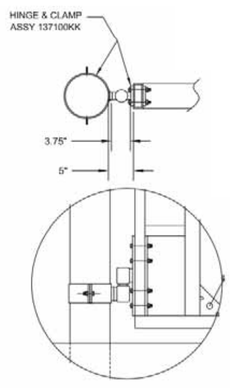
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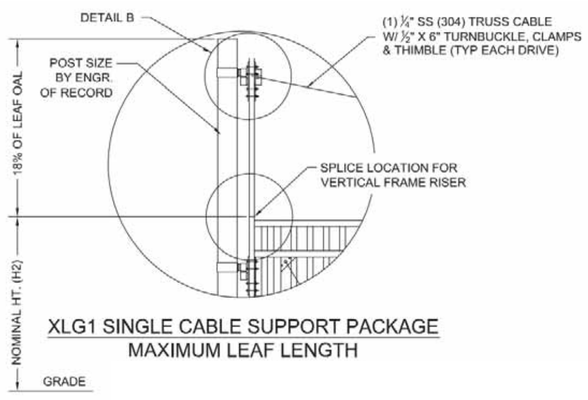

ELEVATION VIEW

MAXIMUM LEAF LENGTH WITHOUT CABLE SUPPORT
(USE FOR 23' WIDE & 27' WIDE SWING GATES)




DETAIL A

HINGE & CLAMP ASSEMBLY PART
NUMBER 137100-KK AS MANUF BY
JAMIESON MANUFACTURING CO.
MOUNT WITH ½"-13 X 6" SS
HEX BOLTS & NYLOK NUTS




XLG1 SINGLE CABLE SUPPORT PACKAGE
MAXIMUM LEAF LENGTH

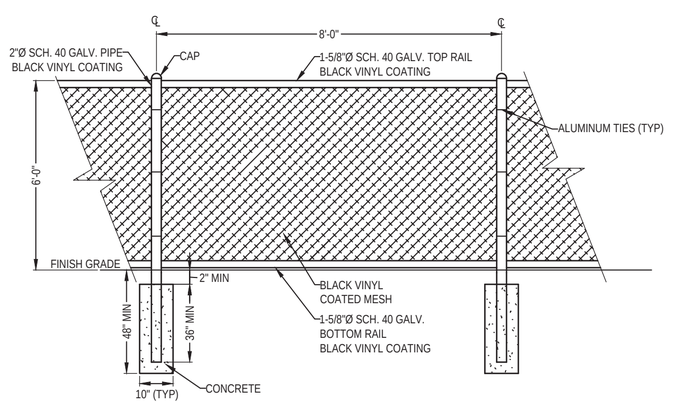
NOTE: EXTENDED LENGTH AND/OR
HEAVY GATE LEAFS MAY REQUIRE
JOB-SPECIFIC ENGINEERING
CALCULATIONS FOR POST SIZE &
SUPPORT (SUCH AS A DEADMAN, ETC).

***NOTES:***
1. *FRAME MATERIAL GRADE AS PER WRITTEN SPECIFICATIONS*
2. *POSTS AVAILABLE AS OPTION.*
3. *SPECIFY POST SIZE & TYPE AT TIME OF ORDER FOR APPROPRIATE HARDWARE.*
4. *SPECIFICATIONS SHOWN CAN BE CHANGED BY THE MANUFACTUER ONLY.*
5. *ALL MATERIAL SHOWN SHALL BE NEW ALUMINUM UNLESS OTHERWISE NOTED.*
6. *PICKET MATERIAL TO COVER THE ENTIRE LENGTH OF GATE.*
   *OPTIONAL POWDER COATING AVALIABLE UPON REQUEST.*

## 6'-0" HIGH LARGE OPENING SWING GATE

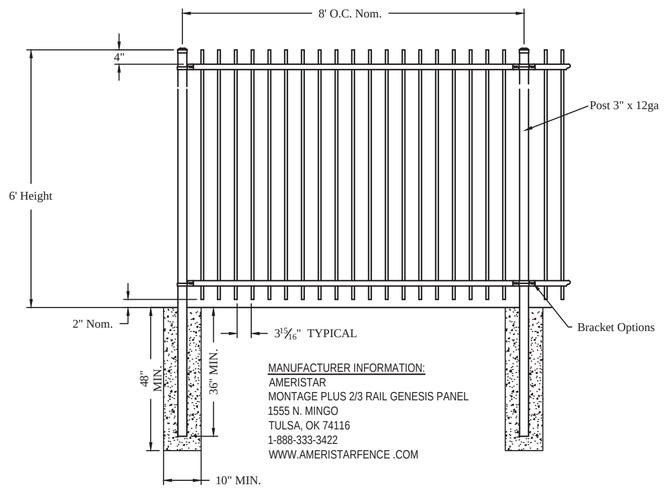
ORNAMENTAL FILLER TO 23' & 27" GATE LEAF SECTIONS
(SERIES 8650)
SUPPLIER: MASTER HALCO
SUPPLIER ADDRESS: 19 ZORN BLVD. UNIT 2, YAPHANK, NY 11980
SUPPLIER PHONE: (631) 585-8150
MANUFACTURER: JAMIESON MANUFACTURING CO.
N.T.S.

NOTE: STANDARD OPENING IS 90° FROM THE CLOSED POSITION. OPENINGS THAT REQUIRE MORE THAN
A 90° SWING MUST BE SPECIFIED ON THE SUBMITTAL DRAWINGS PRIOR TO FABRICATION.
CONTRACTOR TO COORDINATE WITH MANUFACTURER FOR 128° SWING GATE.




## 6'-0" HIGH CHAIN LINK FENCE

N.T.S.




## DECORATIVE METAL FENCE DETAIL

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STATE OF NEW YORK * JACLYN R. PERANTEAU * 083937 * LICENSED PROFESSIONAL ENGINEER

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ZONE: INDUSTRIAL C

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SITE DETAILS IV

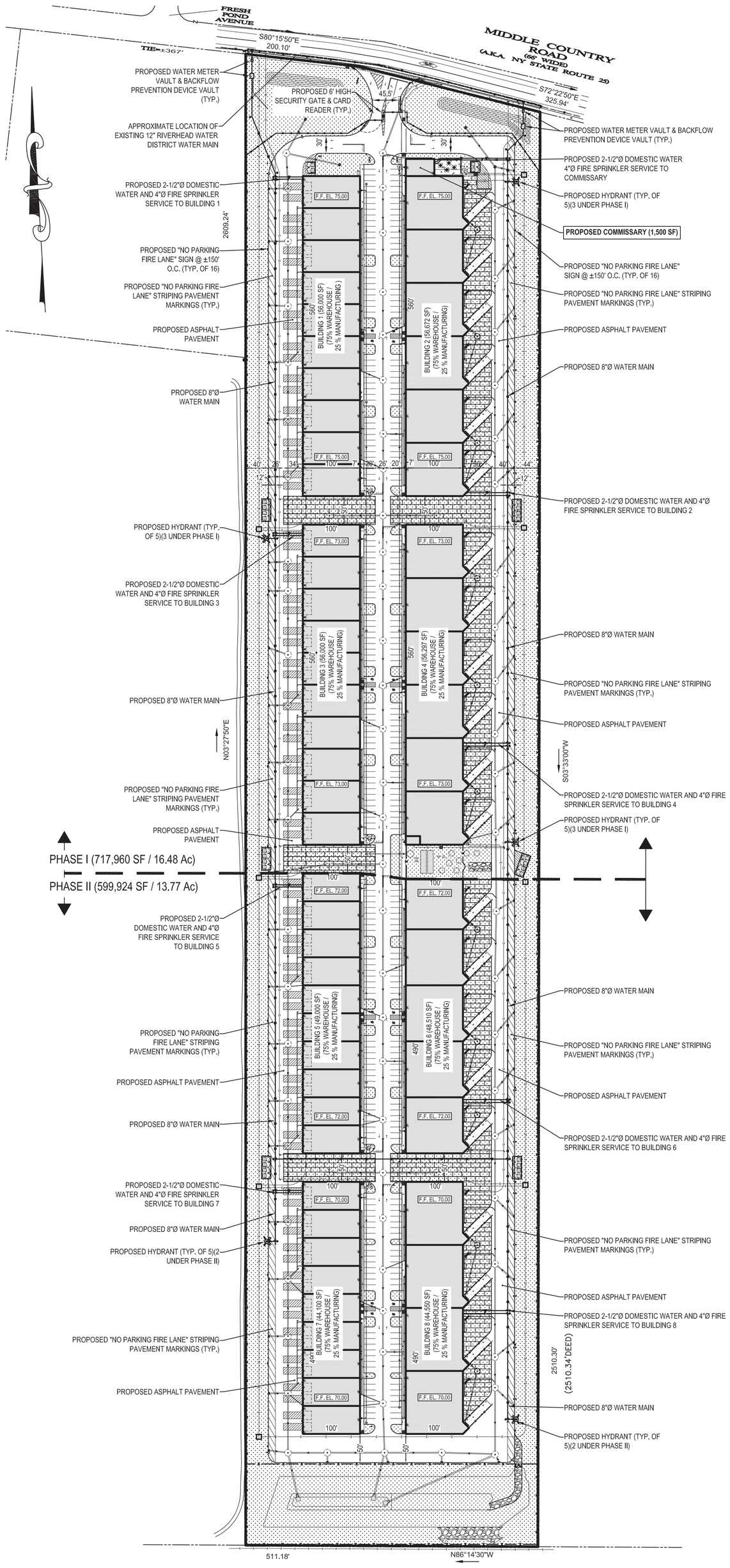
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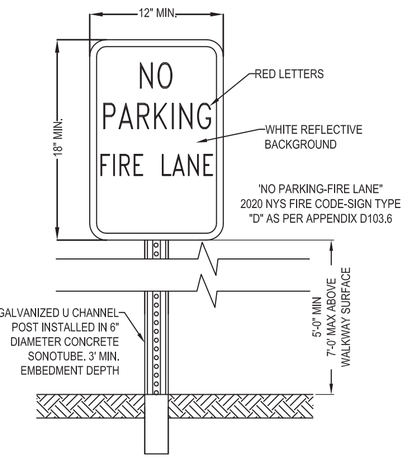



GRAPHIC SCALE

120 0 60 120 240 480

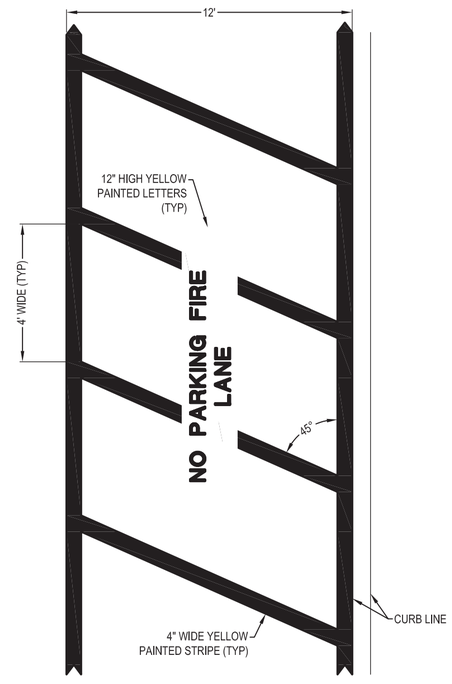
( IN FEET )

1 inch = 120 ft.




**FIRE LANE SIGN DETAIL**

N.T.S.




**"NO PARKING FIRE LANE" STRIPING DETAIL**

N.T.S.

## LEGEND

SCALE OF SYMBOLS = 1" = 120'

| EXISTING | ITEM | PROPOSED |
|---|---|---|
| | PROPERTY LINE | |
| | BUILDING | |
| | CONCRETE CURB | |
| | CONCRETE SIDEWALK | |
| | LANDSCAPE AREA | |
| | PERVIOUS PAVERS | |
| | DUMPSTER ENCLOSURE | |
| | 12' x 34' LOADING SPACE | |
| | LOADING DOCK RETAINING WALLS | |
| | PARKING COUNT | |
| | OVERHEAD DOOR | |
| | DOOR | |
| x x | FENCE | x x x x |
| | BIKE RACK | |
| | HYDRANT | |
| | WATER MAIN | |

## NOTES

1. "NO PARKING FIRE LANE" SIGNS TO BE INSTALLED IN COMPLIANCE WITH LOCAL FIRE CODE OFFICIAL AND 2020 NYS FIRE CODE SECTION 503.3, FIRE APPARATUS ACCESS ROADS - MARKING.
2. "NO PARKING FIRE LANE" PAVEMENT MARKINGS TO BE INSTALLED IN COMPLIANCE WITH LOCAL FIRE CODE OFFICIAL AND 2020 NYS FIRE CODE SECTION 503.3, FIRE APPARATUS ACCESS ROADS MARKING
3. KEY BOXES TO BE INSTALLED IN COMPLIANCE WITH LOCAL FIRE CODE OFFICIAL AND 2020 NYS FIRE CODE SECTION 506, KEY BOXES.

NEW YORK CITY ONE CALL CENTER 811 1-800-272-4480 STOP-CALL-THEN Dig Safely

**PLAN FOR FIRE MARSHAL REVIEW ONLY. NOT FOR CONSTRUCTION**

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## FIRE MARSHAL PLAN

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