MATCH LINE
(SEE INSERT A)

TOWER 19

WETLANDS

UPLANDS

WETLAND LINE (TYP)

LIMITS OF OWENS ROAD SCENIC ROAD CORRIDOR OVERLAY

BLDG.

SIGHT DISTANCE 248 FT.

EXIST. VEGETATION ALONG CHEECHUNK ROAD TO BE SELECTIVELY REMOVED TO IMPROVE THE SIGHT DISTANCE TO 250 FEET OR GREATER.

EXIST. UTILITY POLE TO BE PROTECTED DURING CONSTRUCTION

PROPOSED RISER POLE 48946/51461 P1, P11 CIRCUIT 13-1-13

EXISTING POLE 48949/51461 PROPOSED RISER POLE 48949/51461 P7, P77 CIRCUIT 13-6-13

EXISTING POLE 48957/51474 PROPOSED RISER POLE 48957/51474 P6, P16 CIRCUIT 13-7-13

ES 12" CMP TOP EL 427.79

CONCRETE DRIVE

ES 12" CMP INV OUT 425.29

OWENS ROAD

R=18'

ES-1 INV 399.3 RIP RAP APRON: 9" THICK, d50=4" Lo=4' W=3'

R=10'

ES-2 INV 398.0 RIP RAP APRON: 9" THICK, d50=4" Lo=4' W=3'

EXST. STONE WALL TO REMAIN

15" CMP 48' LF @2.7%

GRAVEL ACCESS ROAD (TYP)

GRASSED DRAINAGE SWALE (TYP)

CLEANOUT INV 384.0

ES-6 INV 388.0 RIP RAP APRON: 9" THICK, d50=4" Lo=4' W=4'

PROPOSED BIO-RETENTION SYSTEM

PLANTING SOIL 3,500 SF 4' DEEP

PROP. DRY EXTENDED DETENTION STORMWATER BASIN

SOLID 6" HDPE 73 LF

ES-7 INV 384.0 (18" HDPE)

OUTLET STRUCTURE (SEE DETAILS)

ANTI-SEEP COLLAR (TYP.)

41LF 18" HDPE @ 1.7%

ES-8 INV 382.2 RIP RAP APRON: 9" THICK, d50=4" Lo=8' W=5'

COLLECTION SYSTEM 6" PERFORATED HDPE (TYP.)

CLEANOUT INV 384.0

RIP-RAP 9" THICK, d50=4"

ES-10 INV 386.5 RIP RAP APRON: 9" THICK, d50=4" Lo=8' W=5'

38 LF 2-12" DIP @ 1.6 %

ES-9 INV 387.1 RIP RAP APRON: 9" THICK, d50=4" Lo=8' W=5'

RIP RAP APRON: 9" THICK, d50=4" Lo=8' W=5'

ES-4 INV 396.7

ES-3 INV 396.9

10" HDPE FOR TRENCH DRAIN CONNECTIONS (TYP.)

20' DOUBLE SWING GATE

TRENCH DRAIN (TYP.)

PEDESTRIAN GATE (TYP)

ES-4 INV 397.3

ASPHALT ROAD (TYP)

PROPOSED EARTH BERM

CHAINLINK SECURITY FENCE (TYP)

ASPHALT ROAD (TYP)

GRASS SWALE (TYP)

GRAVEL YARD

INV 383.3

PROP. STEEL UTILITY POLE

LIMITS OF OWENS ROAD SCENIC ROAD CORRIDOR OVERLAY

CHEECHUNK ROAD

HARTLEY ROAD

PERMANENT WETLAND DISTURBANCE 127.23 SF (0.0029 AC)

TEMPORARY WETLAND DISTURBANCE 3,929.54 SF (0.0902 AC)

PROP. STEEL UTILITY POLE W/ 9' DIA. CONCRETE FOUNDATION

EXIST. STEEL TOWER TO BE REMOVED

EXIST. UTILITY POLE TO BE PROTECTED DURING CONSTRUCTION

PROP. STEEL UTILITY POLE

TOWER 20

EXIST. STONE WALL TO REMAIN

PROPOSED CONSERVATION EASEMENT LINE

N 58°59'49" E

158.08'

N 43°52'27" E

414.33'

S 64°26'23" W

MATCH LINE
(SEE INSERT B)

ECHO LAKE ROAD

PULL BOX PNO. P26

MATCH LINE
(SEE INSERT A)

INSERT A
SCALE: 1"=40'

MATCH LINE
(SEE INSERT B)

EXISTING RISER POLE 48931/51320 PROPOSED RISER POLE 48931/51320 P3, P13 CIRCUIT 13-3-13

P5, P15 FUTURE 13-5-13 (DEAD END & CAP)

INSERT B
SCALE: 1"=40'

ARCH 0 1 2 3

ENGRG 0 1 2 3

REDUCTION RATIO

ORFRMF.DWG

DATE: 00 TIME: 000

| REV | REVISION | DWN | DES | CHKD | DATE |
|---|---|---|---|---|---|
| C | FEIS REVISIONS | JYP | MF | MF | 4/27/12 |
| B | RESPONSE TO DEIS COMMENTS | JP | JP | MF | 4/04/12 |

ORANGE AND ROCKLAND UTILITIES, INC.
PEARL RIVER NEW YORK

CMX
CIVIL ENGINEERING, SURVEY & LANDSCAPE ARCHITECTS, PC OF NEW YORK
AN AFFILIATE OF GROUND ENGINEERING

STATE OF NEW YORK — W. CHARLES UTSCHIG, JR. — 082303

W. CHARLES UTSCHIG, JR.
PROFESSIONAL ENGINEER No. 082303

ENGINEERING REVIEW

| DEPT. | SIGNATURE | DATE |
|---|---|---|
| CIVIL/SURVEY | | 4/3/12 |
| TELECOM/NES | | |
| TRANS & SUB. | | |
| RELAY | | |

| DWN | DES | CHKD |
|---|---|---|
| JP | MF | WCU |
| DESIGN REVIEW | | DATE 4/30/12 |

APPROVED: DATE 4/30/12

☐ INFORMATION
☐ COMMENTS
☐ BID
☐ CONSTRUCTION
☒ REVISIT

HARTLEY ROAD SUBSTATION

LAYOUT AND UTILITY PLAN

| SCALE | FILE NO. | DRAWING NUMBER | | | SHEET | REV. |
|---|---|---|---|---|---|---|
| 1"=40' | | K | F | 6427 | 5 OF 12 | C |