



CONVERGENT SPARKILL ENERGY STORAGE 1

PERMIT PLANS ORANGETOWN, NEW YORK JULY 18, 2023

Applicant/Owner

Convergent Sparkill LLC
7 Times Square, Suite 3504
New York, NY 10036

Civil Engineer

Stantec Consulting Services, Inc.
55 Church Street
New Haven, CT 06510

Surveyor

Control Point Associates, Inc.
200 West 41st Street, Suite 1203
New York, NY 10036

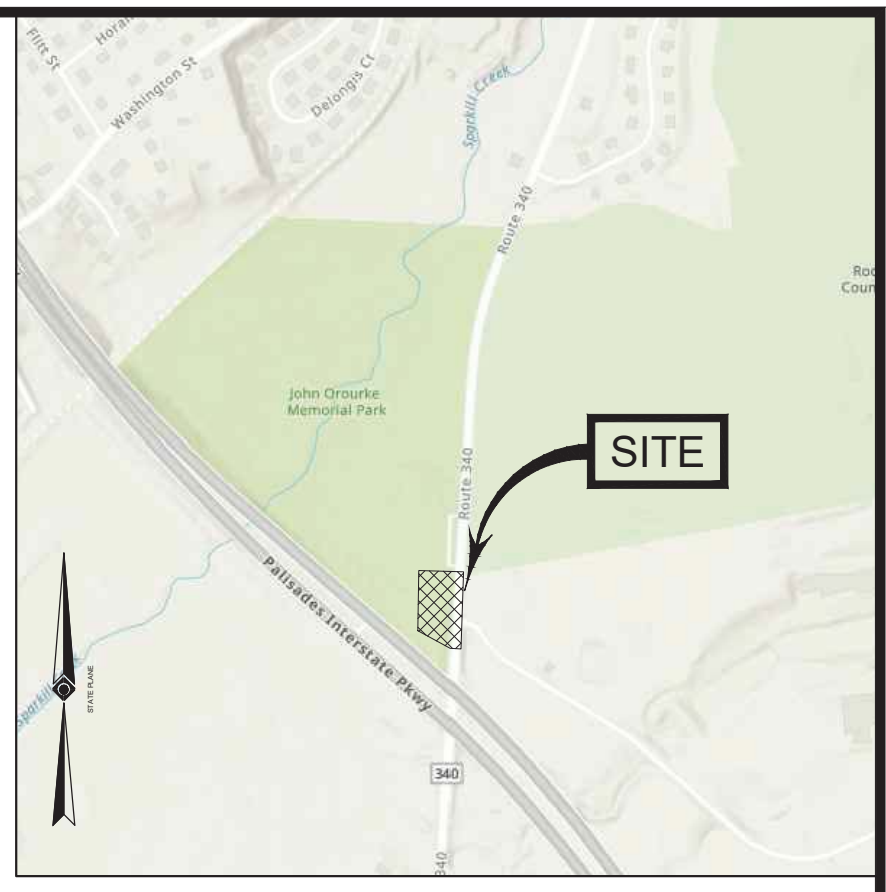
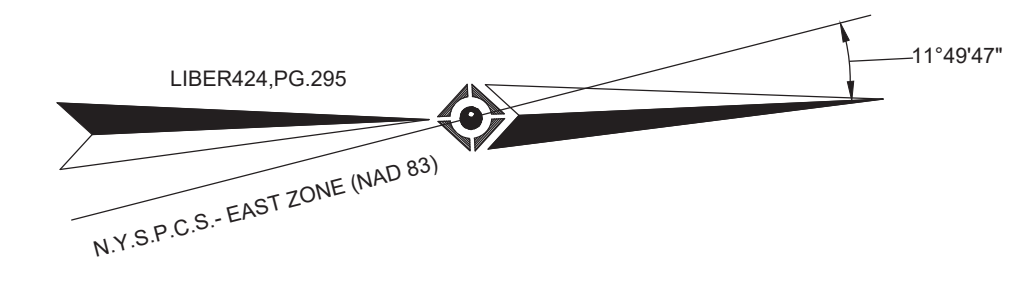
PROJECT LOCATION



VICINITY MAP
NOT TO SCALE

INDEX OF SHEETS

SHEET NO.	TITLE
1 TO 5	SURVEY
C-100	OVERALL SITE PLAN
C-101	SITE DEMOLITION, SITE PREPARATION, SEDIMENTATION AND EROSION CONTROL PLAN
C-102	ENLARGEMENT PLAN
C-200 TO C-201	DETAILS
C-202	STANDARD BATTERY SEGMENT DETAILS
LP-7 TO LP-8	LIGHTING DETAILS

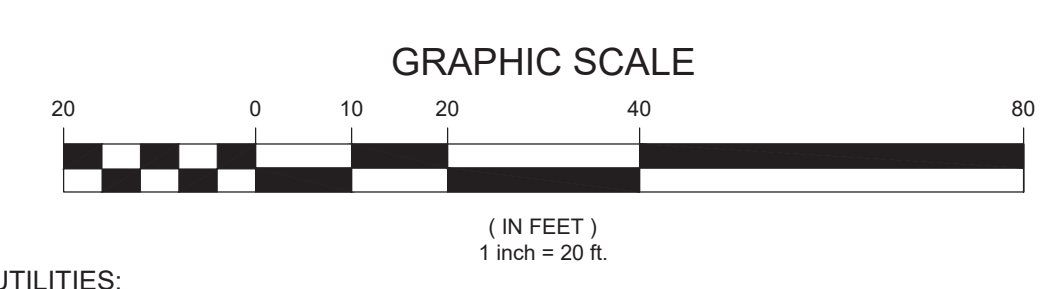


MATCH LINE TO SHEET 1

MATCH LINE TO SHEET 3

SEE SHEET 5 OF 5 FOR BOUNDARY DETAIL
SEE SHEET 1 OF 5 FOR LEGEND, NOTES, & REFERENCES

6	ADDRESS CHANGED PER CLIENT'S REQUEST	N/A	KD	W.T.W.	06-29-2023		
5	LABELS ADDED PER CLIENT'S REQUEST	N/A	KD	W.T.W.	06-28-2023		
4	ADDED EXTENDED WETLAND LOCATIONS, PER REFERENCE	N/A	KD	W.T.W.	02-01-2023		
3	ADDED UTILITY INFORMATION PER CLIENT REQUEST	N/A	KD	W.T.W.	01-11-2023		
2	ADDED BOUNDARY INFORMATION PER CLIENT REQUEST	N/A	KD	W.T.W.	12-15-2022		
1	ADDED PERMANENT EASEMENT AND APPROXIMATE FENCED AREA CALCULATION PER CLIENT REQUEST	N/A	MAP	W.T.W.	12-09-2022		
No.	DESCRIPTION OF REVISION			FIELD CREW	DRAWN	APPROVED	DATE



UTILITIES:

THE FOLLOWING COMPANIES WERE NOTIFIED BY NEW YORK DIG SAFELY (1-800-272-1000) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVICING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES' RESPONSE TO THIS REQUEST. SERIAL NUMBER(S): 10142-001-750

UTILITY COMPANY	PHONE NUMBER
VERIZON VALHALLA HUDSON VALLEY	855-228-9564
SUEZ WATER NEW YORK	800-262-8600
ROCKLAND COUNTY SEWER DISTRICT 1	845-365-6056
ORANGE & ROCKLAND UTILITIES INC.	845-577-2374
CABLEVISION OF WEST NYACK	609-758-4700
TOWN OF ORANGETOWN	845359-6502 X4209



THE STATE OF NEW YORK REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE.

THIS SURVEY HAS BEEN PERFORMED IN THE FIELD UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE, BELIEF, AND INFORMATION, THIS SURVEY HAS BEEN PERFORMED IN ACCORDANCE WITH CURRENTLY ACCEPTED PROFESSIONAL STANDARDS.

STATE OF NEW YORK
 WILLIAM T. WHIPPLE
 NEW YORK PROFESSIONAL LAND SURVEYOR #89238

DATE: 09/29/2023

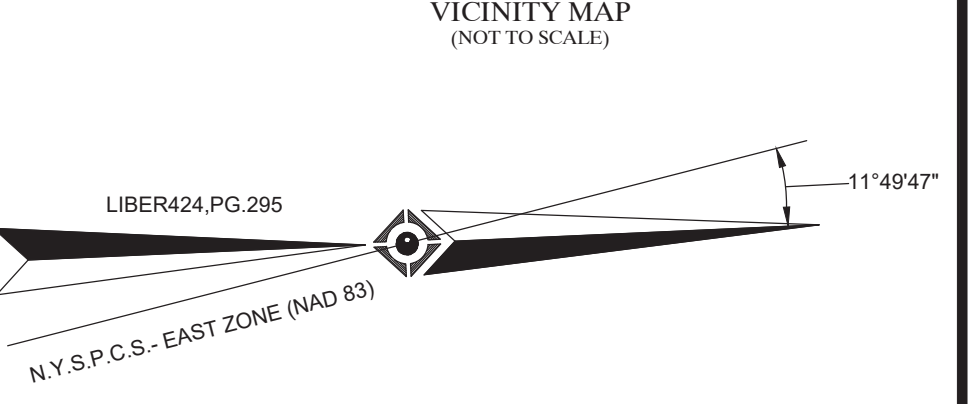
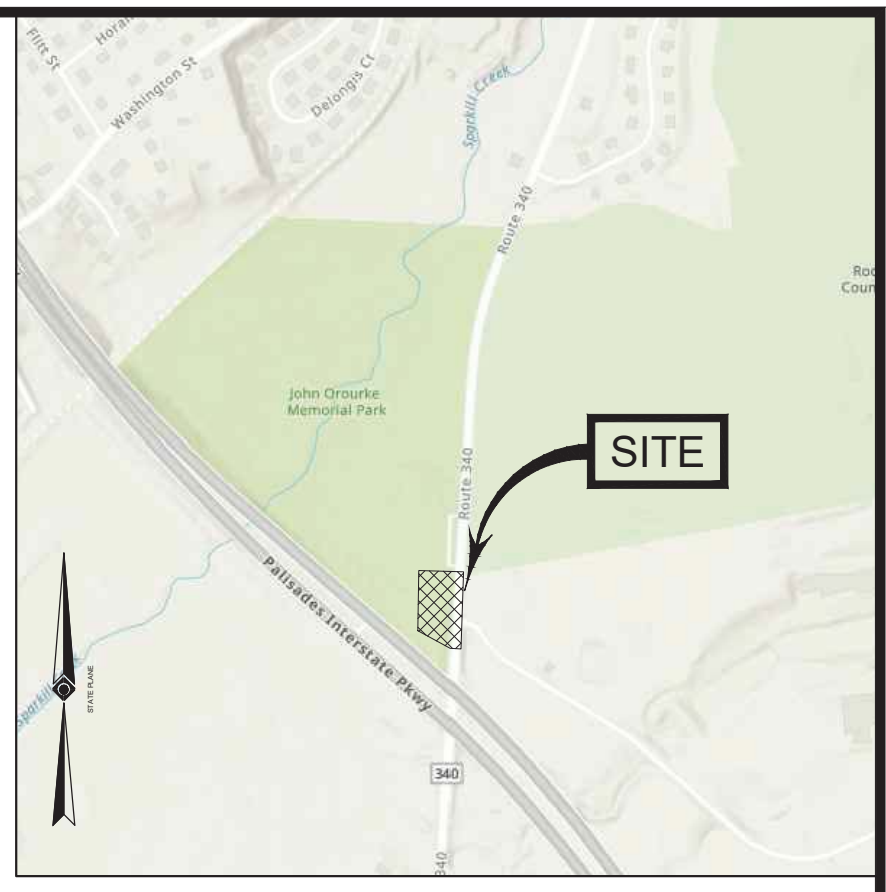
FIELD DATE: 10-24-2022
 10-25-2022
 FIELD BOOK NO: 22-08
 FIELD BOOK PG: 106
 FIELD CREW: W.R.C.P.
 DRAWN: K.O.
 REVIEWED: W.T.W.
 APPROVED: W.T.W.
 DATE: 11-07-2022
 SCALE: 1" = 20'
 FILE NO: 04-220237-00
 DWG. NO: 2 OF 5

SEE SHEET 5 OF 5 FOR BOUNDARY DETAIL
 SEE SHEET 1 OF 5 FOR LEGEND, NOTES, & REFERENCES

PARTIAL BOUNDARY & TOPOGRAPHIC SURVEY
 650 ROUTE 340
 SECTION 77.12, BLOCK 1, LOT 44
 TOWN OF ORANGETOWN
 ROCKLAND COUNTY, STATE OF NEW YORK

CONTROL POINT ASSOCIATES, INC.
 9 TIMES SQUARE, 200 WEST 41ST STREET, SUITE 1203
 NEW YORK, NY 10036
 212-693-1100
 WWW.CONTROLPOINT.COM

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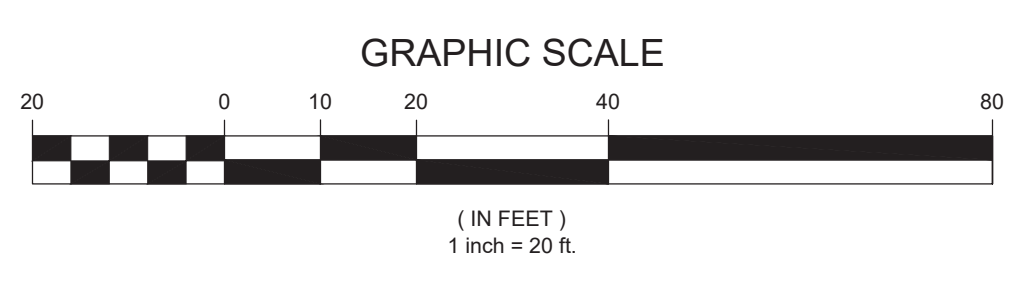


MATCH LINE TO SHEET 1

MATCH LINE TO SHEET 4

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WILLIAM T. WHIPPLE
NEW YORK PROFESSIONAL LAND SURVEYOR #40326

06/29/2023
DATE

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10-25-2022

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22-08

FIELD BOOK PG.
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3 OF 5

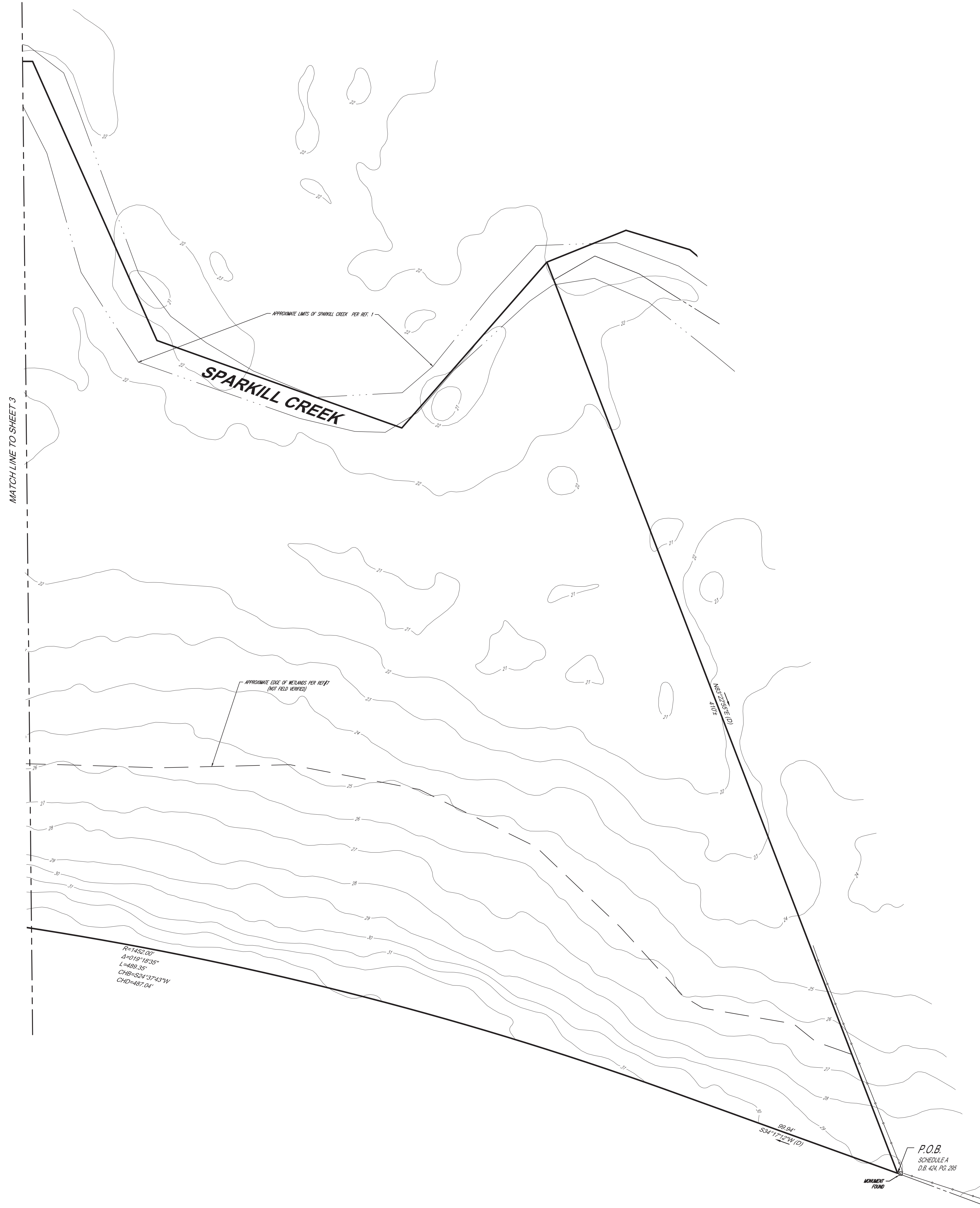
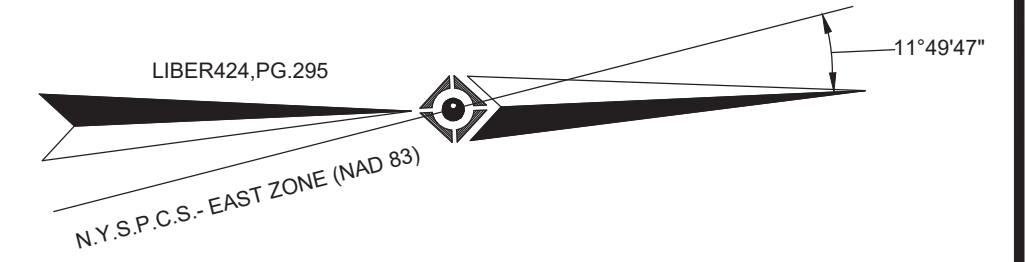
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ROCKLAND COUNTY, STATE OF NEW YORK

CONTROL POINT ASSOCIATES, INC.
9 TIMES SQUARE, 200 WEST 41ST STREET, SUITE 1203
NEW YORK, NY 10036
WWW.CONTROLSURVEY.COM

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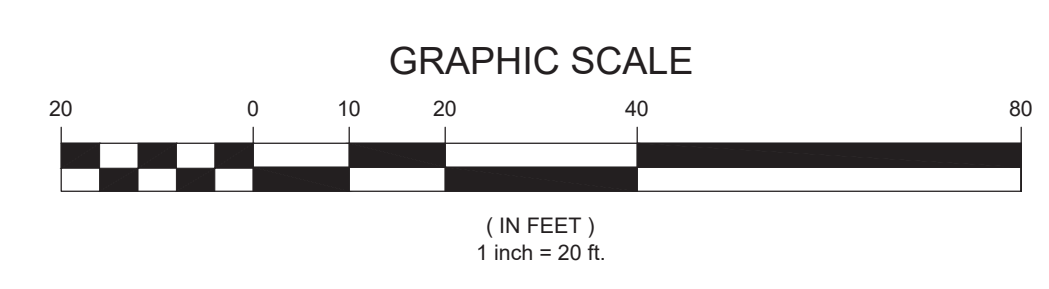


VICINITY MAP
(NOT TO SCALE)



MATCH LINE TO SHEET 3

R=1432.00'
A=019° 18' 25"
L=489.35'
CH=524.9743W
CHD=487.04'



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WILLIAM T. WHIPPLE
NEW YORK PROFESSIONAL LAND SURVEYOR #650526

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10-25-2022

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22-08

FIELD BOOK PG.
106

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W.R./C.P.

DRAWN
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1" = 20'

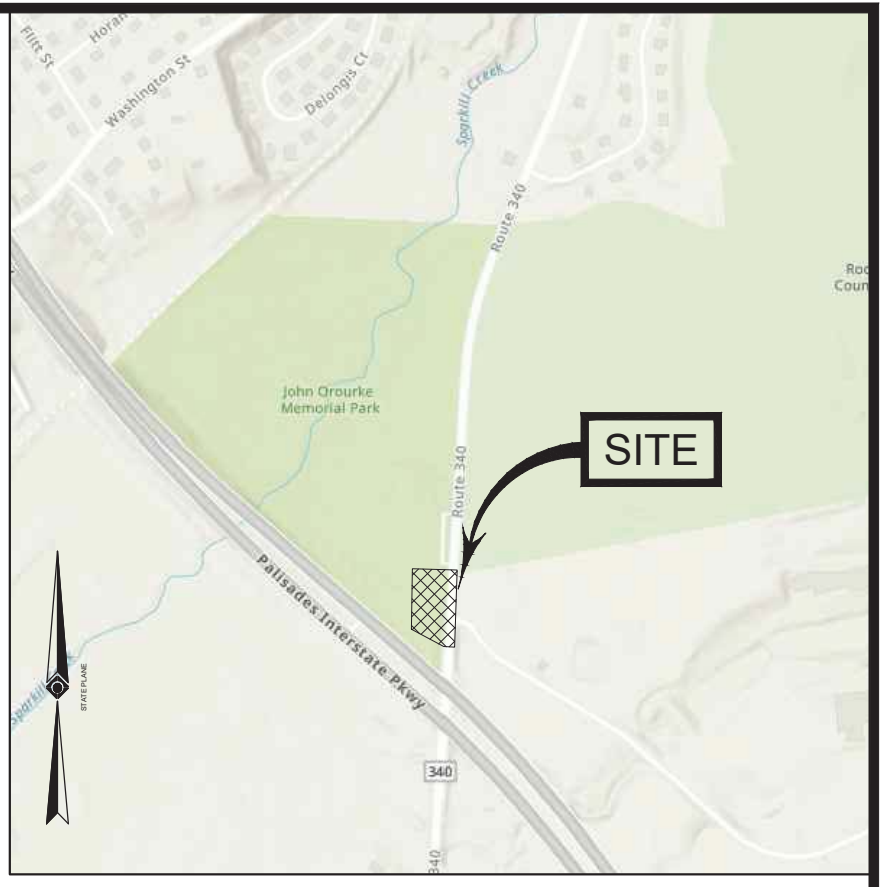
FILE NO.
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DWG. NO.
4 OF 5

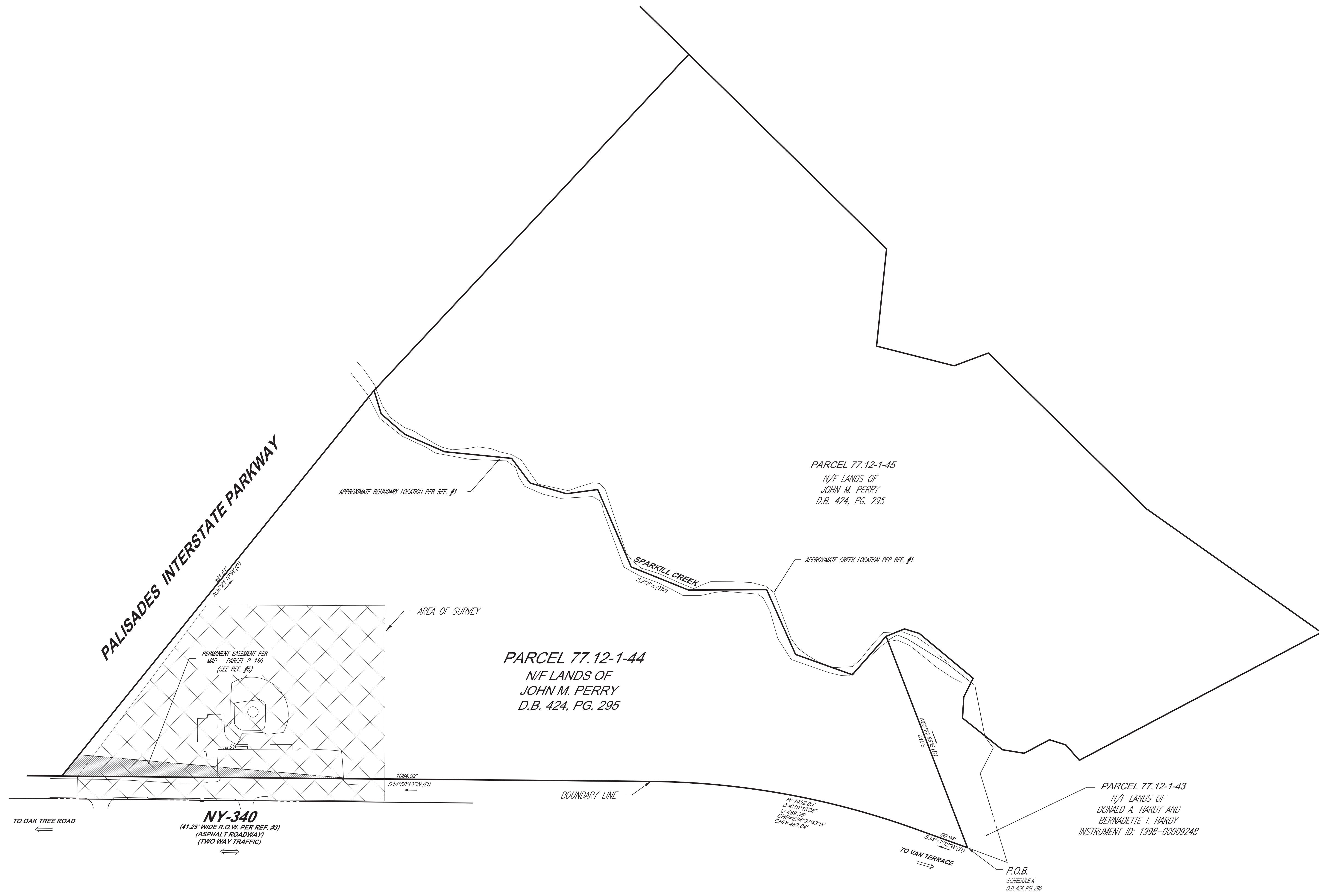
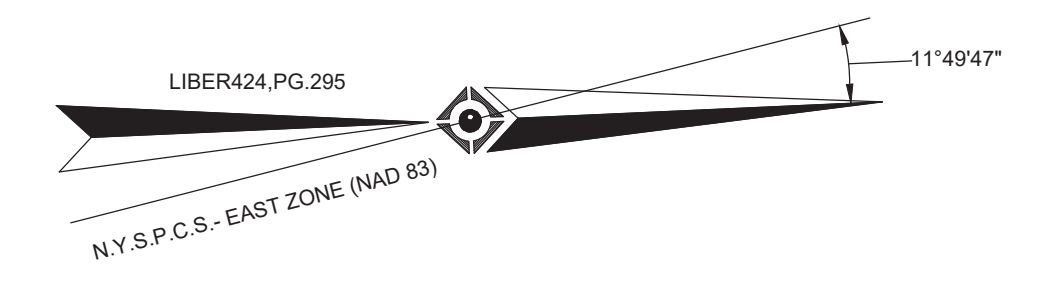
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ROCKLAND COUNTY, STATE OF NEW YORK

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9 TIMES SQUARE, 200 WEST 41ST STREET, SUITE 1203
NEW YORK, NY 10036
WWW.CPA-SURVEY.COM

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VICINITY MAP
(NOT TO SCALE)



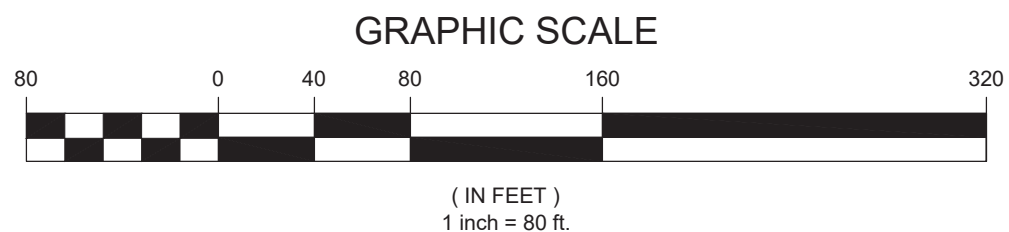
PALISADES INTERSTATE PARKWAY

PARCEL 77.12-1-45
N/F LANDS OF
JOHN M. PERRY
D.B. 424, PG. 295

PARCEL 77.12-1-44
N/F LANDS OF
JOHN M. PERRY
D.B. 424, PG. 295

PARCEL 77.12-1-43
N/F LANDS OF
DONALD A. HARDY AND
BERNADETTE I. HARDY
INSTRUMENT ID: 1998-00009243

NY-340
(41.25' WIDE R.O.W. PER REF. #3)
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)



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UTILITY COMPANY	PHONE NUMBER
VERIZON VALHALLA HUDSON VALLEY	855-238-8654
SUEZ WATER NEW YORK	800-262-8600
ROCKLAND COUNTY SEWER DISTRICT 1	845-369-8056
ORANGE & ROCKLAND UTILITIES INC.	845-877-5374
CABLEVISION OF WEST NYACK	809-758-4700
TOWN OF ORANGETOWN	845359-6502 34209



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SEE SHEET 1 OF 5 FOR LEGEND, NOTES, & REFERENCES

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FIELD BOOK NO: 22-08
FIELD BOOK PG: 106
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DRAWN: K.O.
REVIEWED: W.T.W.
APPROVED: W.T.W.
DATE: 06/29/2023
SCALE: 1" = 80'
FILE NO: 04-220237-00
DWG NO: 5 OF 5

CONTROL POINT ASSOCIATES, INC.
9 TIMES SQUARE, 200 WEST 41ST STREET, SUITE 1200
NEW YORK, NY 10036
WWW.CONTROLPOINT.COM

WILLIAM T. WHIMPLE
NEW YORK PROFESSIONAL LAND SURVEYOR #650526

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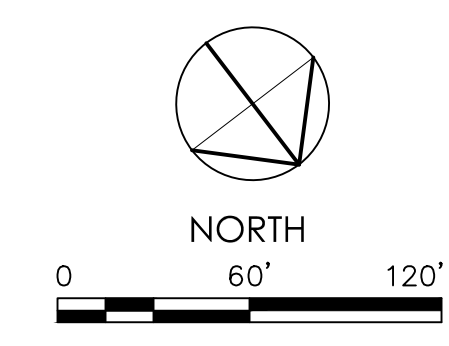
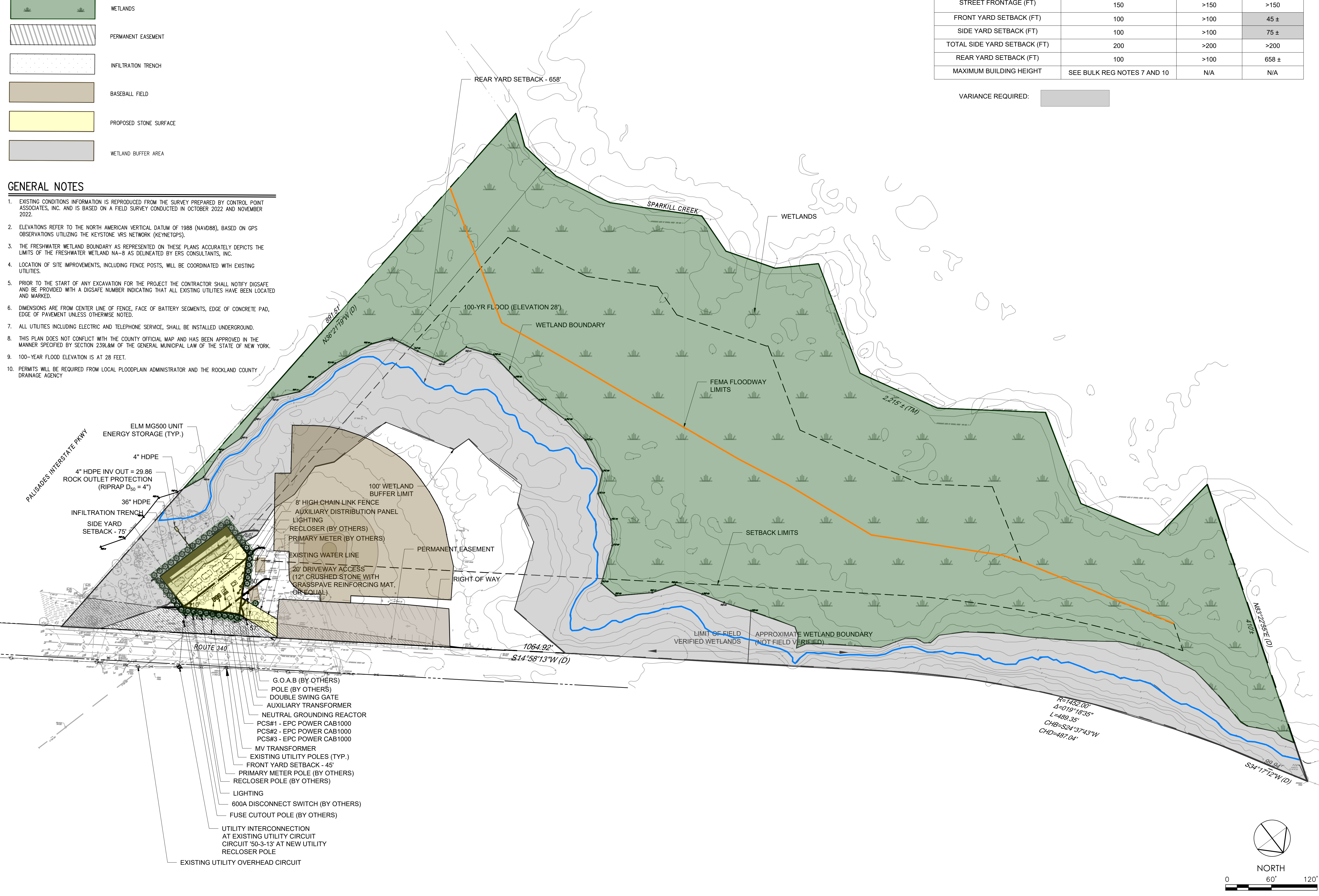
ZONING ANALYSIS TABLE			
DISTRICT: LO. USE GROUP: X MAP/LOT 44			
	REQUIRED/ALLOWED	EXISTING	PROPOSED
FLOOR AREA RATIO	0.40	0.09	0.09
LOT AREA (ACRES)	2	15	15
LOT WIDTH (FT)	300	1317 ±	1317 ±
STREET FRONTAGE (FT)	150	>150	>150
FRONT YARD SETBACK (FT)	100	>100	45 ±
SIDE YARD SETBACK (FT)	100	>100	75 ±
TOTAL SIDE YARD SETBACK (FT)	200	>200	>200
REAR YARD SETBACK (FT)	100	>100	658 ±
MAXIMUM BUILDING HEIGHT	SEE BULK REG NOTES 7 AND 10	N/A	N/A

VARIANCE REQUIRED:

LEGEND	
	PROPERTY LINE
	SETBACK LIMITS
	WETLAND BOUNDARY
	100' WETLAND BUFFER LIMIT
	8' HIGH CHAIN LINK FENCE
	100-YEAR FLOOD (EL. 28)
	FEMA FLOODWAY
	WETLANDS
	PERMANENT EASEMENT
	INFILTRATION TRENCH
	BASEBALL FIELD
	PROPOSED STONE SURFACE
	WETLAND BUFFER AREA

GENERAL NOTES

- EXISTING CONDITIONS INFORMATION IS REPRODUCED FROM THE SURVEY PREPARED BY CONTROL POINT ASSOCIATES, INC. AND IS BASED ON A FIELD SURVEY CONDUCTED IN OCTOBER 2022 AND NOVEMBER 2022.
- ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), BASED ON GPS OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETGPS).
- THE FRESHWATER WETLAND BOUNDARY AS REPRESENTED ON THESE PLANS ACCURATELY DEPICTS THE LIMITS OF THE FRESHWATER WETLAND NA-8 AS DELINEATED BY ERS CONSULTANTS, INC.
- LOCATION OF SITE IMPROVEMENTS, INCLUDING FENCE POSTS, WILL BE COORDINATED WITH EXISTING UTILITIES.
- PRIOR TO THE START OF ANY EXCAVATION FOR THE PROJECT THE CONTRACTOR SHALL NOTIFY DIGSAFE AND BE PROVIDED WITH A DIGSAFE NUMBER INDICATING THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED.
- DIMENSIONS ARE FROM CENTER LINE OF FENCE, FACE OF BATTERY SEGMENTS, EDGE OF CONCRETE PAD, EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- ALL UTILITIES INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.
- THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239.6M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
- 100-YEAR FLOOD ELEVATION IS AT 28 FEET.
- PERMITS WILL BE REQUIRED FROM LOCAL FLOODPLAIN ADMINISTRATOR AND THE ROCKLAND COUNTY DRAINAGE AGENCY.



LEGEND

- PROPERTY LINE
- SEDIMENT CONTROL BARRIER
- STOCKPILE AREA
- PROPOSED BATTERY ENERGY STORAGE SYSTEM SITE
- ANTI-TRACKING PAD
- CONCRETE WASHOUT AREA
- PERMANENT EASEMENT

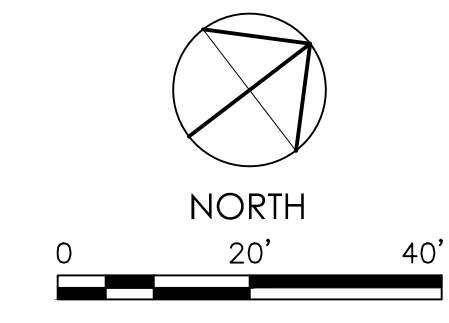
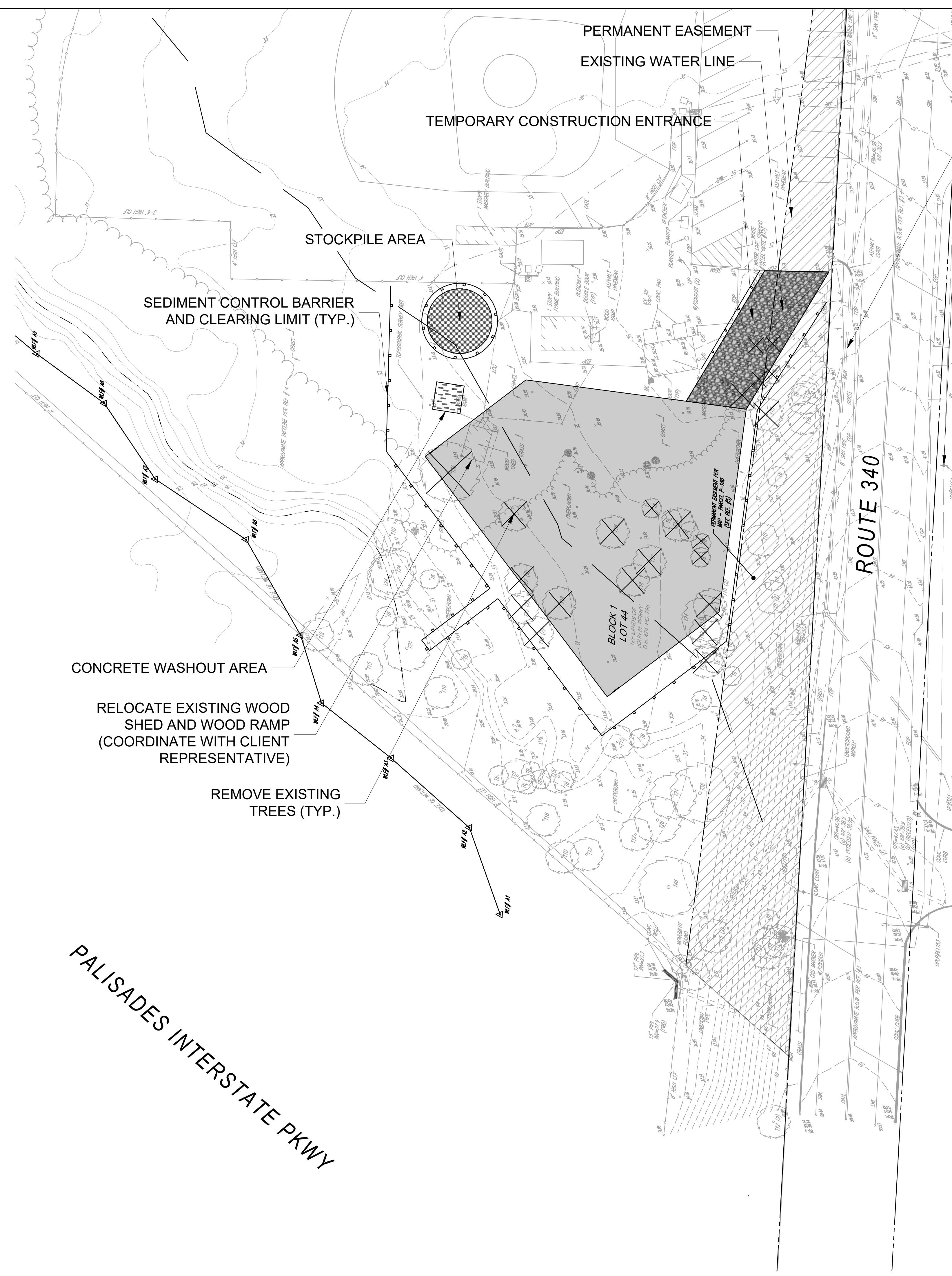
SITE PREPARATION NOTES

1. EXISTING CONDITIONS INFORMATION IS REPRODUCED FROM THE SURVEY PREPARED BY CONTROL POINT ASSOCIATES, INC. AND IS DATED OCTOBER 2022 TO NOVEMBER 2022.
3. THE FRESHWATER WETLAND BOUNDARY AS REPRESENTED ON THESE PLANS ACCURATELY DEPICTS THE LIMITS OF THE FRESHWATER WETLAND NA-8 AS DELINEATED BY ERS CONSULTANTS, INC.
4. WITHIN THE LIMIT OF THE WORK LINE AS NOTED ON THE SITE PREPARATION PLANS, REMOVE AND DISCARD ALL TOP SOIL, MULCH, TRASH, DEAD TREES AND STUMPS, SHRUBBERY, CHAIN LINK FENCE POSTS, RAILS, FABRIC, GATES, FOOTINGS AND ALL APPURTENANCES, BOLLARDS, POSTS, WALLS AND CURBS UNLESS OTHERWISE NOTED.
5. THE OWNER'S REPRESENTATIVE SHALL BE CONSULTED AND WILL REVIEW THE WORK ON SITE WITH THE CONTRACTOR BEFORE ANY WORK SHALL COMMENCE.
6. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
7. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING CONDITIONS TO REMAIN THAT ARE DUE TO CONTRACTOR OPERATIONS.
8. ALL ITEMS TO BE REMOVED THAT ARE NOT STOCKPILED FOR LATER REUSE ON THE PROJECT OR DELIVERED TO THE OWNER SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE CONTRACTOR.
9. THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE SURVEY REFERENCED ABOVE. THE CONTRACTOR SHALL CONTACT DIGSAFE AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANIES TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS EFFORTS OF THE DEMOLITION WITH ALL TRADES.
11. THE CONTRACTOR SHALL COORDINATE ALL ADJUSTMENT OR ABANDONMENT OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
12. THE CONTRACTOR SHALL MAINTAIN OR ADJUST TO NEW FINISH GRADE AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POLES, MAN HOLES, CATCH BASINS, HAND HOLES, WATER AND GAS GATES, HYDRANTS, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED OR DIRECTED BY THE OWNER'S REPRESENTATIVE.
13. TREE CLEARING IS TO BE COMPLETED BETWEEN NOVEMBER 1 AND MARCH 31, OTHERWISE COORDINATION WITH AND APPROVAL FROM U.S. FISH AND WILDLIFE SERVICE (USFWS) AND NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) IS REQUIRED.

EROSION PREVENTION AND SEDIMENT CONTROL MEASURES

1. ALL SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR DISTURBANCE AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
2. SEDIMENT TRAPS SHALL BE INSTALLED AT ALL DRAINAGE STRUCTURES. SEDIMENT CONTROL DEVICES SHALL BE CLEANED OF SEDIMENT WHEN IT REACHES ONE-THIRD OF THE CAPACITY OR EXPOSED HEIGHT.
3. MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE OF NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY WHEN INSTALLED.
4. STABILIZE SLOPES GREATER THAN 3:1 (HORIZONTAL:VERTICAL) WITH SEED, SECURED GEOTEXTILE FABRIC, SPRAYED COMPOST BLANKET, OR RIP-RAP AS REQUIRED TO PREVENT EROSION DURING CONSTRUCTION.
5. FINAL CLEAN OUT CATCH BASINS, DRAIN MANHOLES, STORM DRAIN PIPES, AND DETENTION BASINS AFTER COMPLETION OF CONSTRUCTION.
6. ALL COLLECTED SEDIMENT SHALL BE DISPOSED OF PROPERLY TO AN APPROVED LOCATION.
7. THE BOTTOM OF SEDIMENTATION BASINS SHALL BE PERIODICALLY CLEANED PER THE DIRECTION OF THE OWNER'S REPRESENTATIVE. DISPOSE OF SEDIMENT PROPERLY.
8. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, CONTRACTOR TO REMOVE ALL TEMPORARY CONTROL MEASURES AT THE OWNER'S REPRESENTATIVES DIRECTION.
9. DAMAGED OR DETERIORATED ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
10. THE CONTRACTOR'S SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR DAILY INSPECTIONS, MAINTENANCE, AND REPAIR ACTIVITIES.

EXISTING UTILITIES SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION (TYP.)





LEGEND

- PROPERTY LINE
- SETBACK LIMITS
- WETLAND BOUNDARY
- 100' WETLAND BUFFER LIMIT
- 8'-HIGH CHAIN LINK FENCE
- 100-YR FLOOD (ELEVATION 28')
- PERMANENT EASEMENT
- INFILTRATION TRENCH
- PROPOSED CRUSHED STONE
- WETLAND BUFFER AREA
- WETLANDS

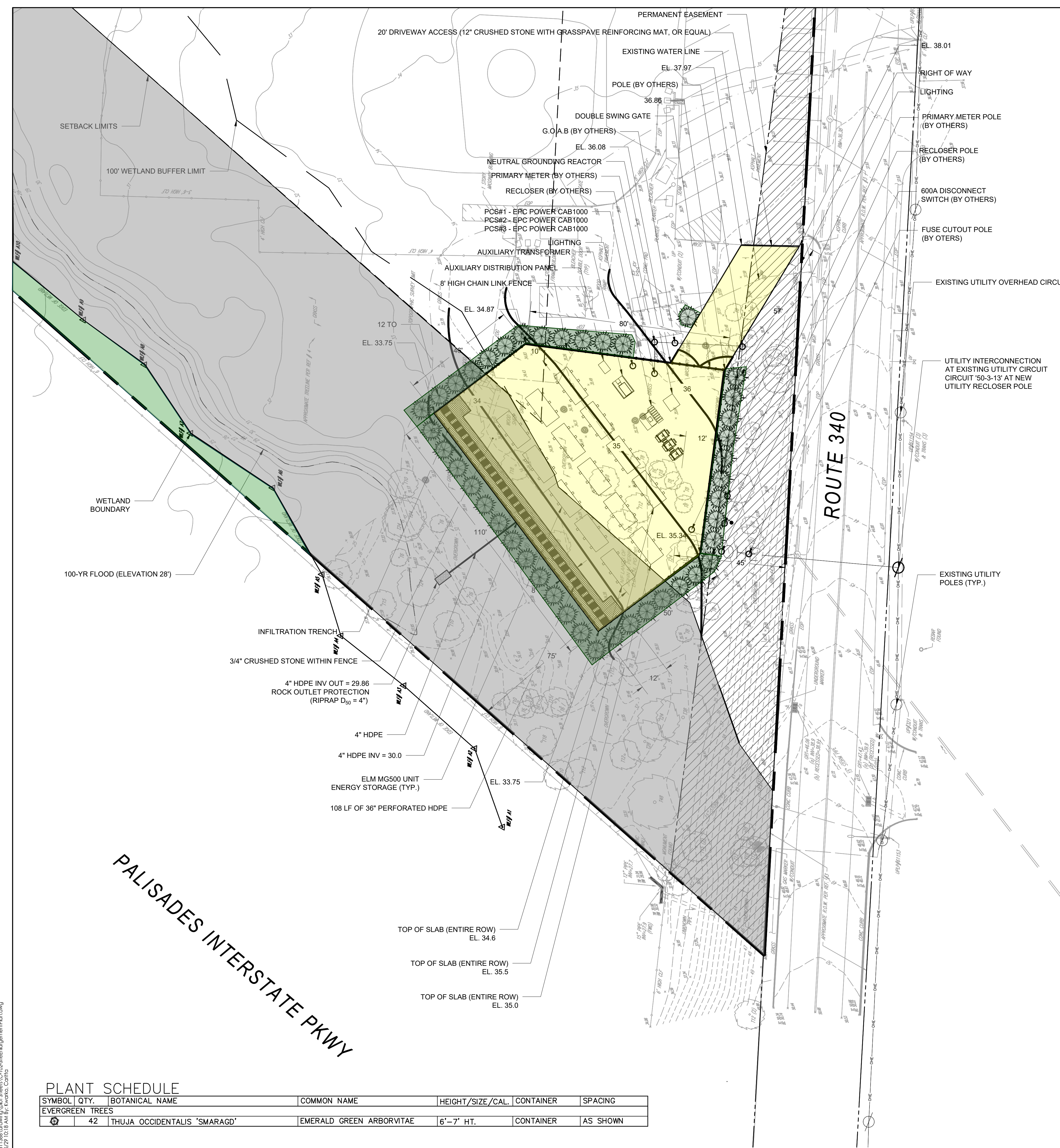
- ### GENERAL NOTES
- EXISTING CONDITIONS INFORMATION IS REPRODUCED FROM THE SURVEY PREPARED BY CONTROL POINT ASSOCIATES, INC. AND IS BASED ON A FIELD SURVEY CONDUCTED IN OCTOBER 2022 AND NOVEMBER 2022.
 - ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), BASED ON GPS OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETGPS).
 - THE FRESHWATER WETLAND BOUNDARY AS REPRESENTED ON THESE PLANS ACCURATELY DEPICTS THE LIMITS OF THE FRESHWATER WETLAND NA-8 AS DELINEATED BY ERS CONSULTANTS, INC.
 - LOCATION OF SITE IMPROVEMENTS, INCLUDING FENCE POSTS, WILL BE COORDINATED WITH EXISTING UTILITIES.
 - PRIOR TO THE START OF ANY EXCAVATION FOR THE PROJECT THE CONTRACTOR SHALL NOTIFY DIGSAFE AND BE PROVIDED WITH A DIGSAFE NUMBER INDICATING THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED.
 - DIMENSIONS ARE FROM CENTER LINE OF FENCE, FACE OF BATTERY SEGMENTS, EDGE OF CONCRETE PAD, EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 - ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.
 - THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239L&M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.

ZONING ANALYSIS TABLE

DISTRICT: LO, USE GROUP: X
 SECTION: 77.12, BLOCK: 1, LOT: 44

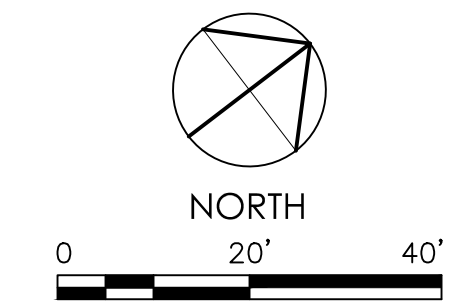
	REQUIRED/ALLOWED	EXISTING	PROPOSED
FLOOR AREA RATIO	0.40	0.09	0.09
LOT AREA (ACRES)	2	15	15
LOT WIDTH (FT)	300	1317 ±	1317 ±
STREET FRONTAGE (FT)	150	>150	>150
FRONT YARD SETBACK (FT)	100	>100	45 ±
SIDE YARD SETBACK (FT)	100	>100	75
TOTAL SIDE YARD SETBACK (FT)	200	>200	>200
REAR YARD SETBACK (FT)	100	>100	>100
MAXIMUM BUILDING HEIGHT	SEE BULK REG NOTES 7 AND 10	N/A	N/A

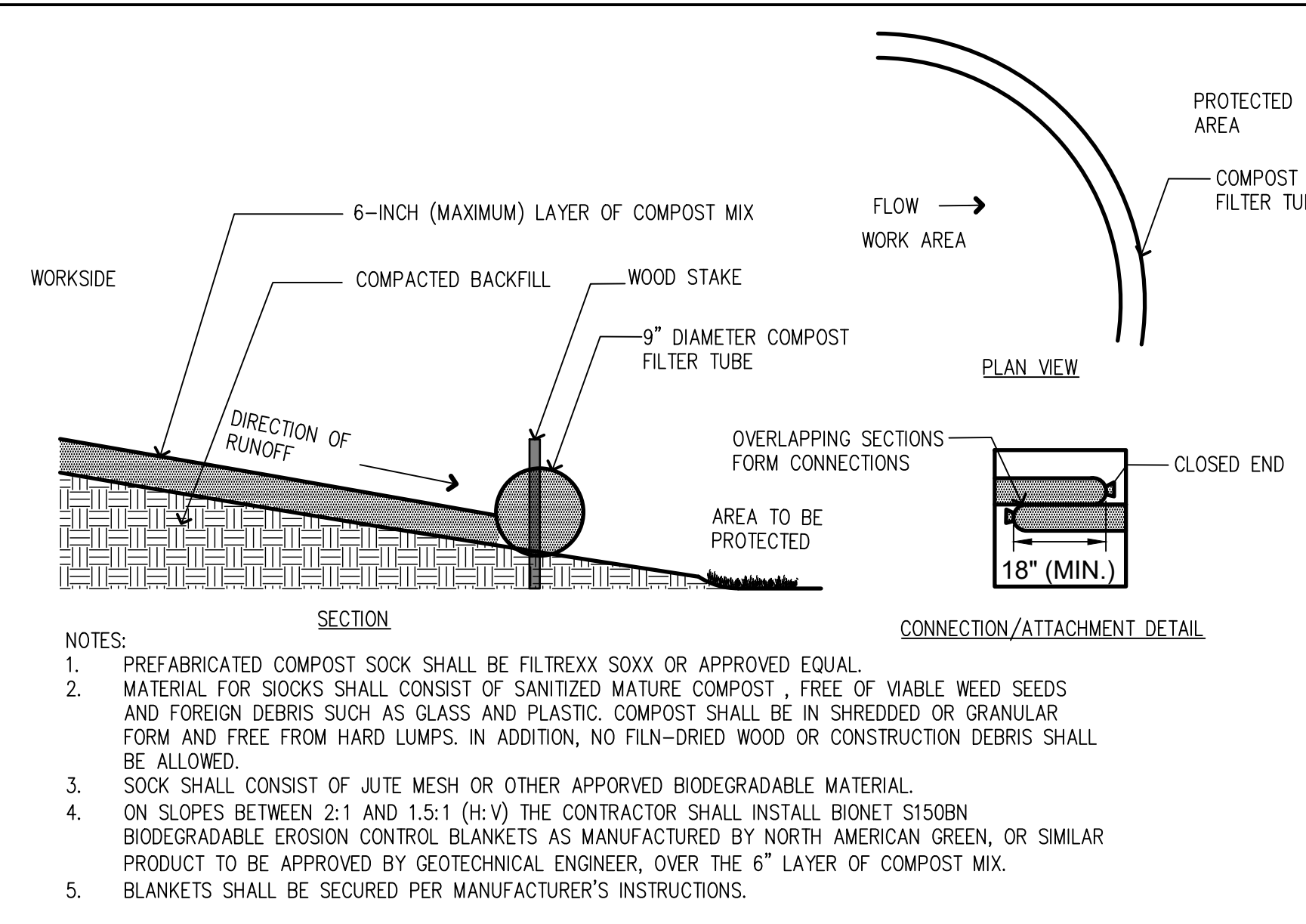
VARIANCE REQUIRED:



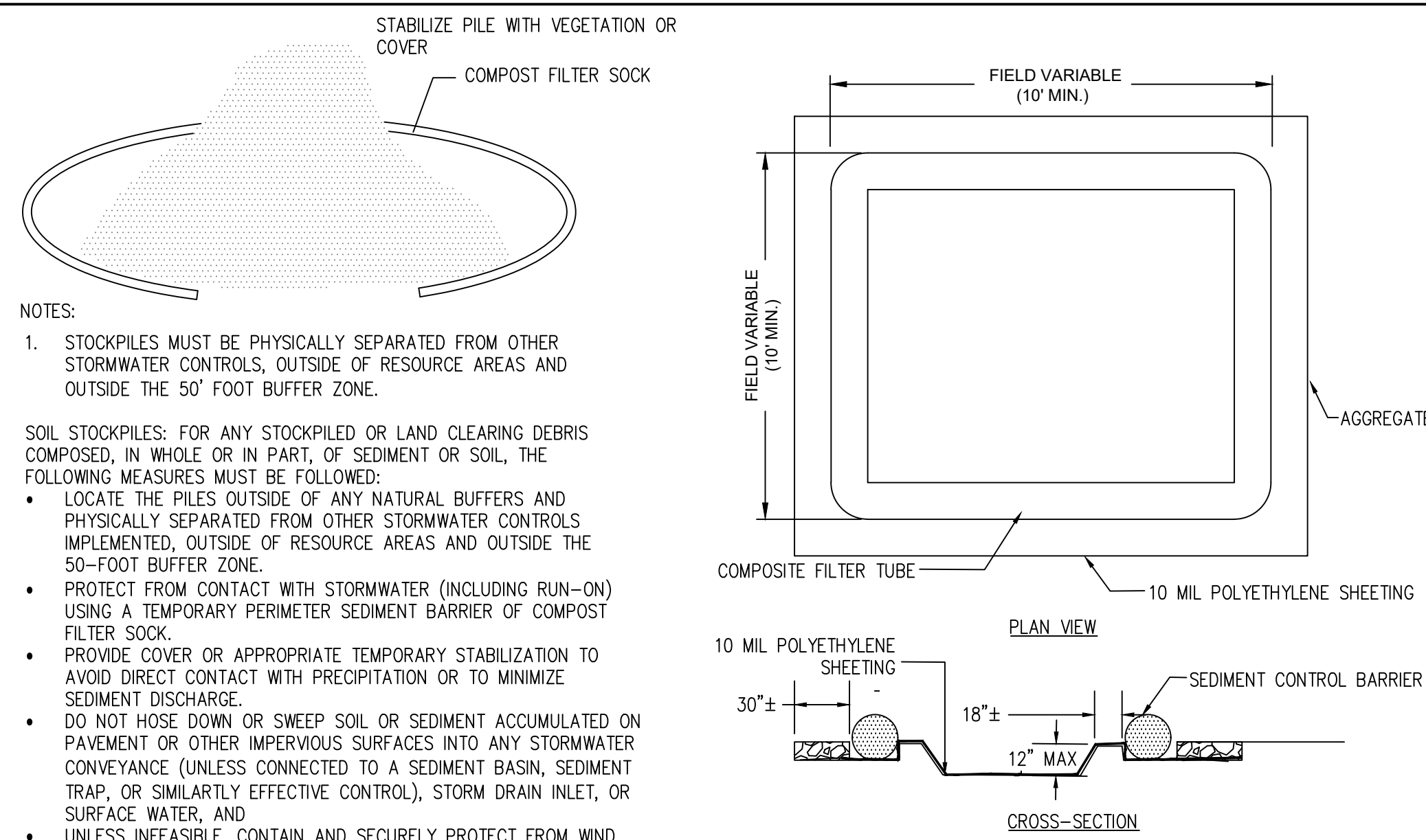
PLANT SCHEDULE

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT/SIZE/CAL.	CONTAINER	SPACING
	42	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	6'-7' HT.	CONTAINER	AS SHOWN

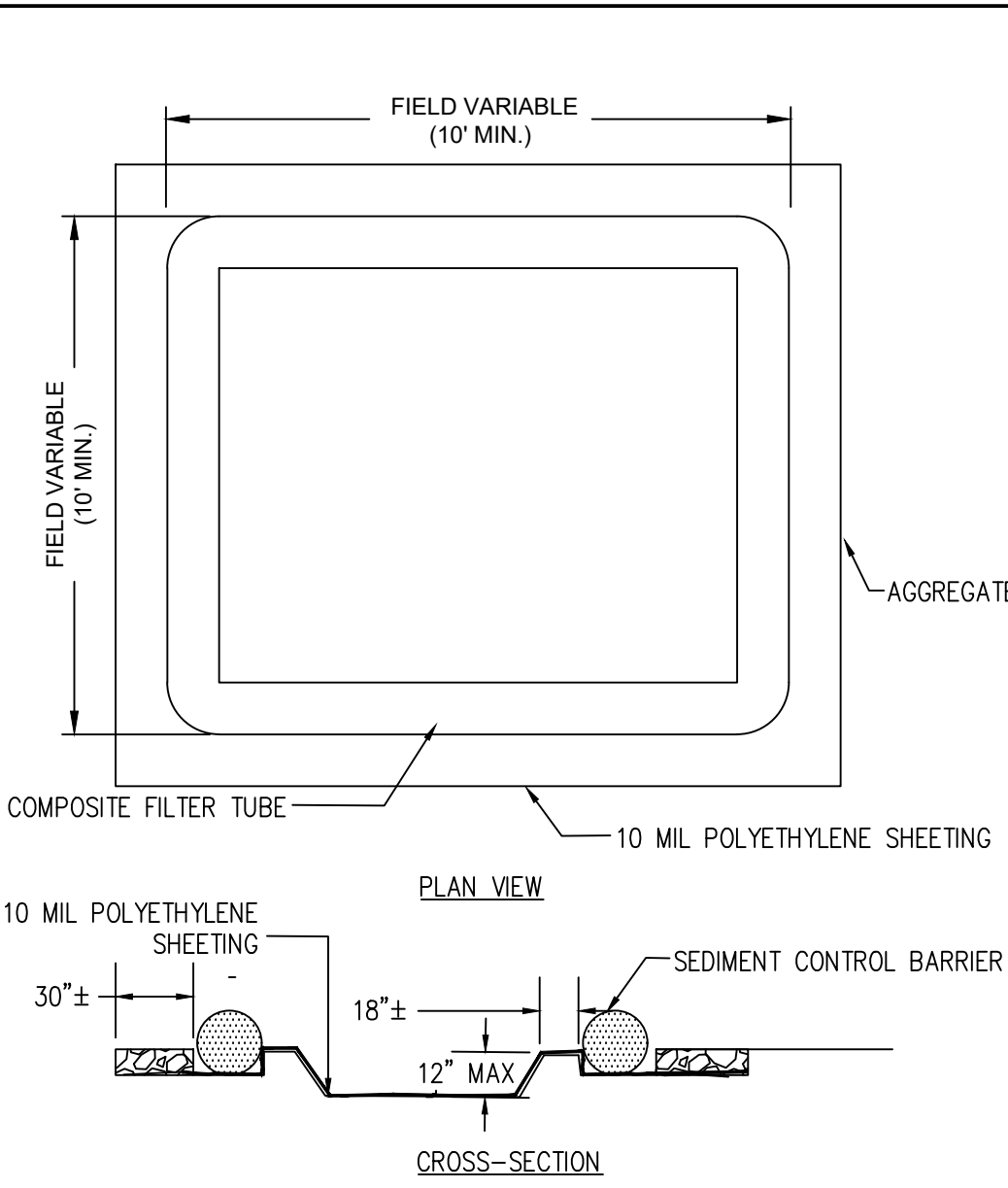




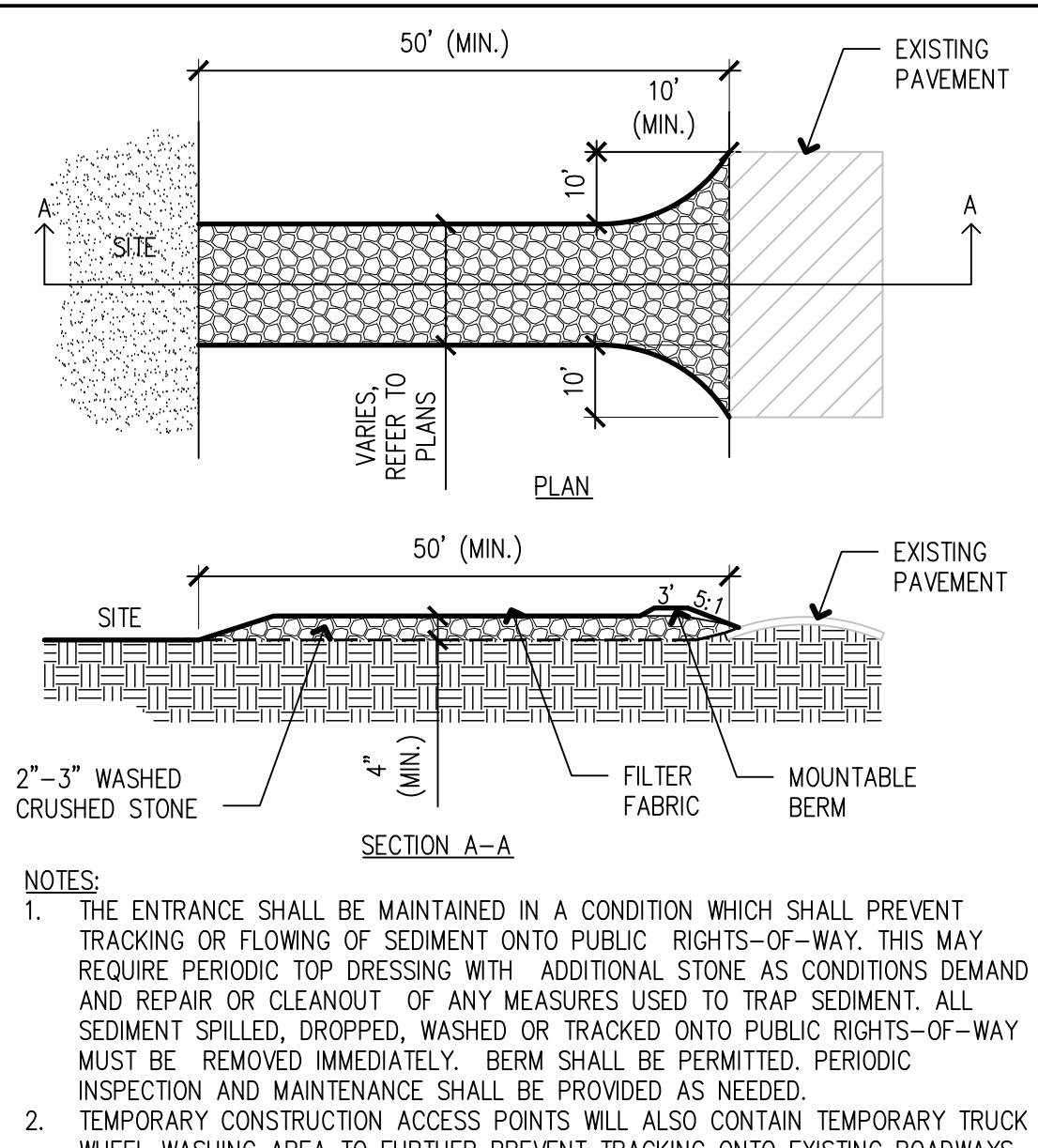
1 SEDIMENT CONTROL BARRIER
SCALE: NTS



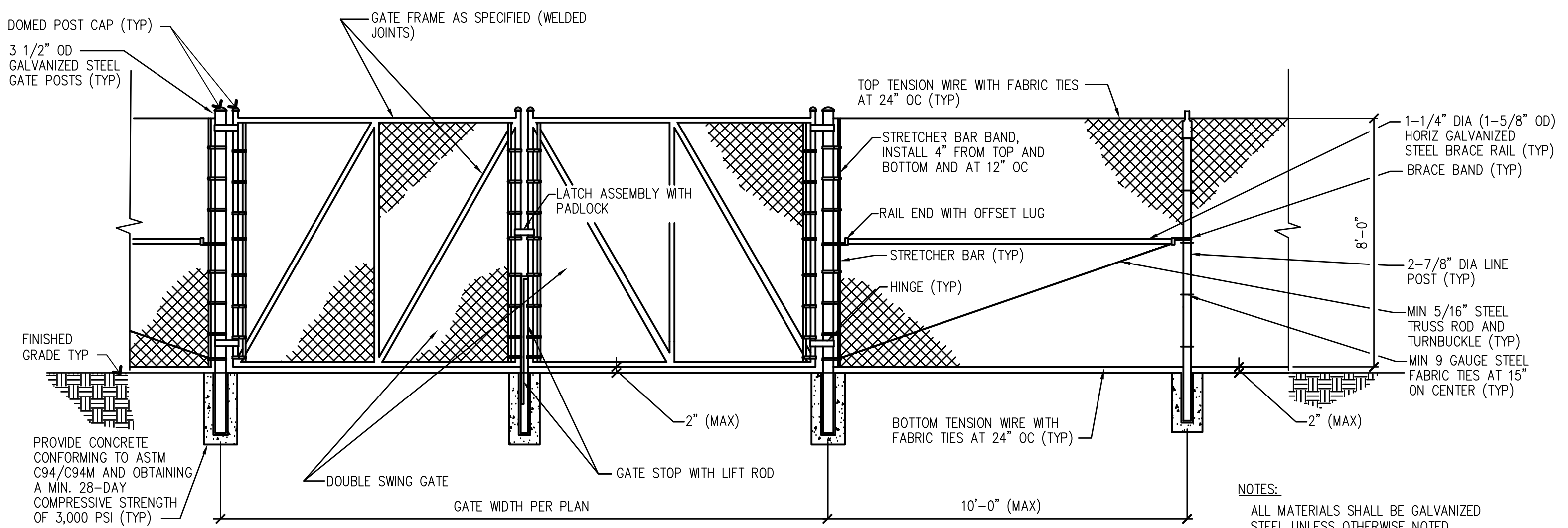
2 STOCKPILE CONTROL
SCALE: NTS



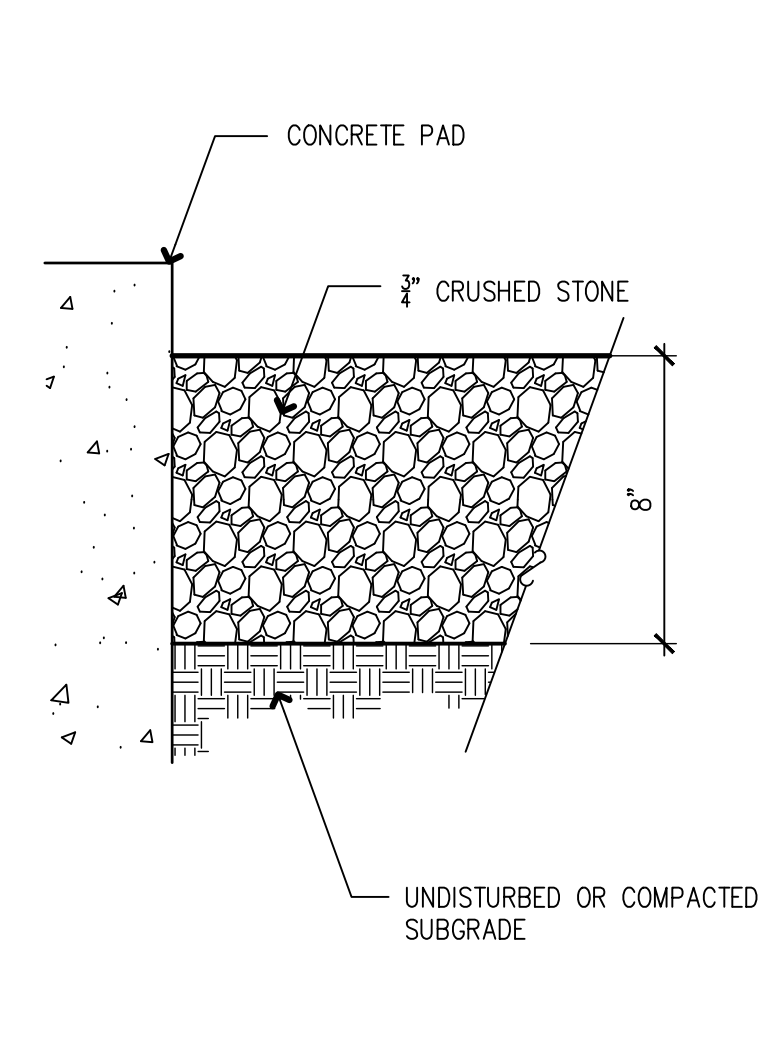
3 CONCRETE WASHOUT AREA
SCALE: NTS



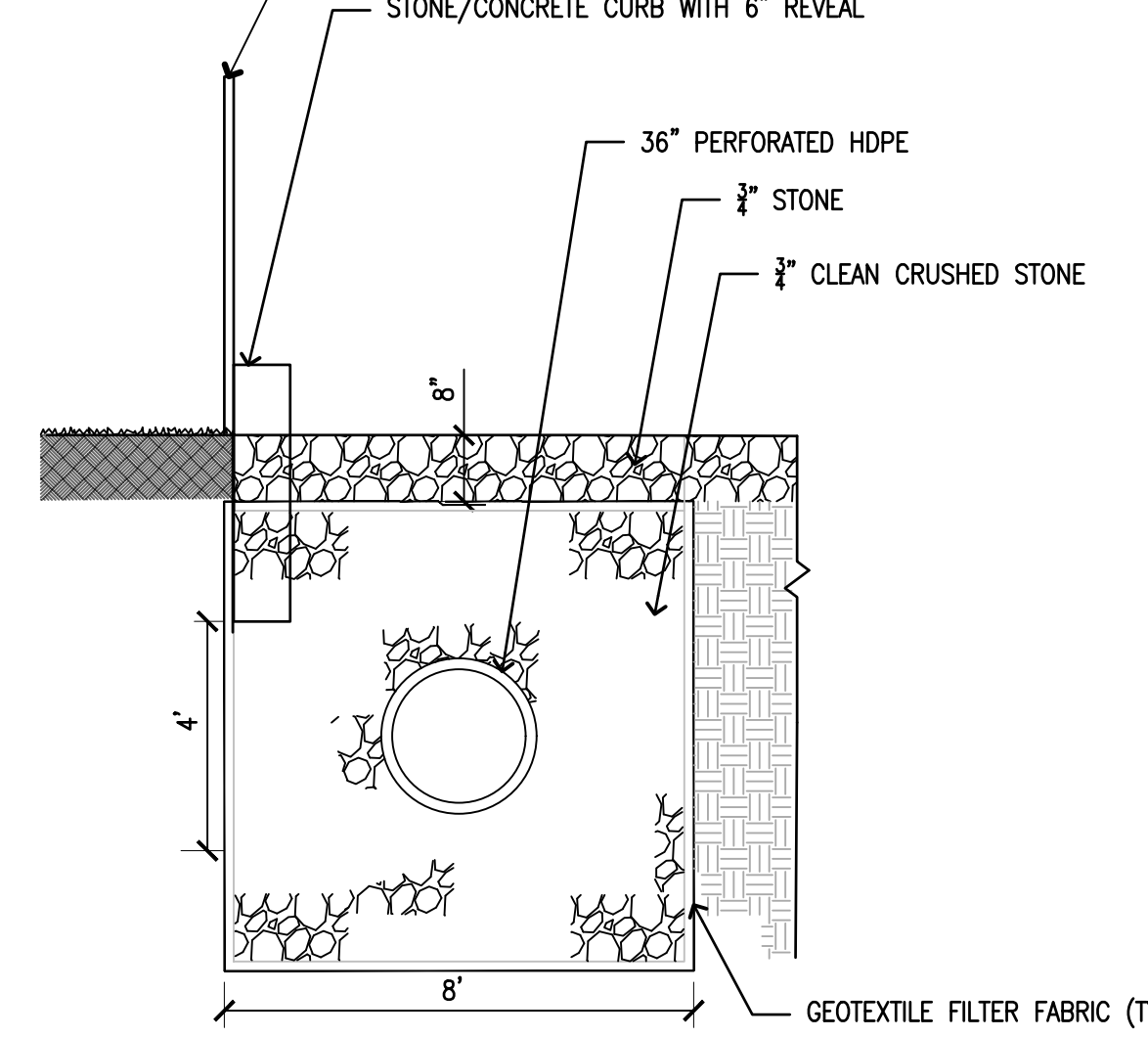
2 TEMPORARY CONSTRUCTION ENTRANCE
SCALE: NTS



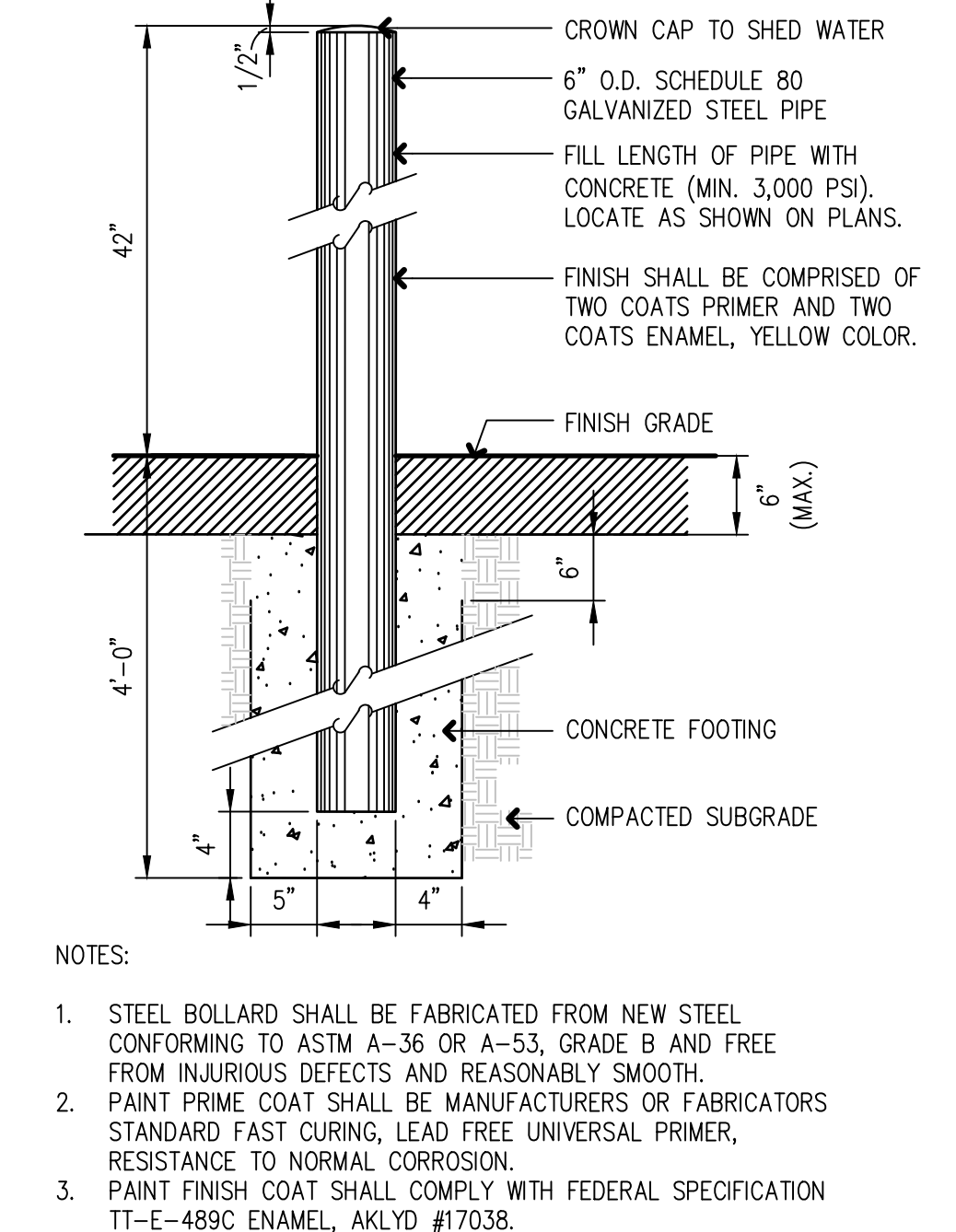
4 8'-0" CHAIN LINK FENCE AND GATE
SCALE: NTS



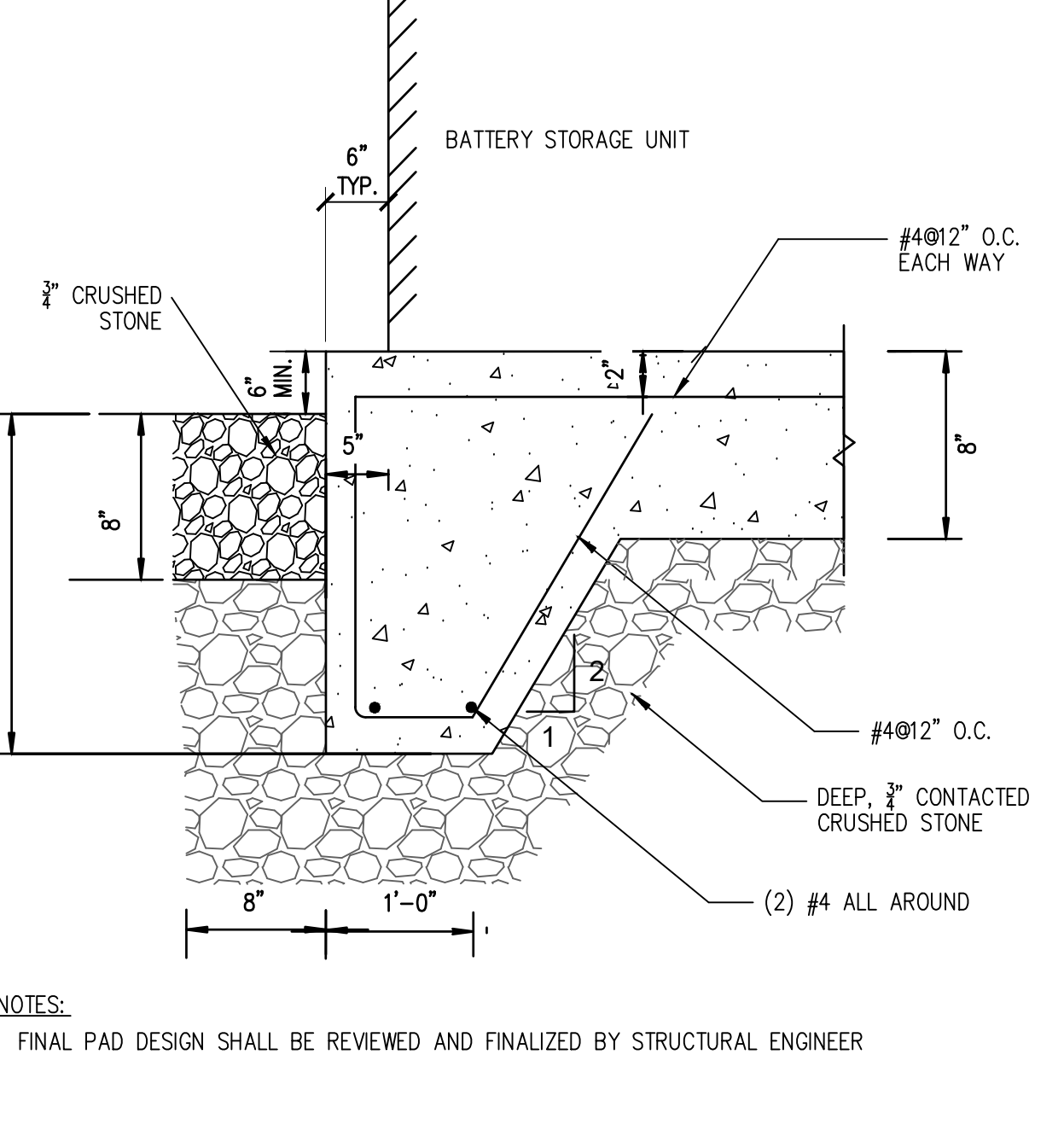
5 CRUSHED STONE SURFACE
SCALE: NTS



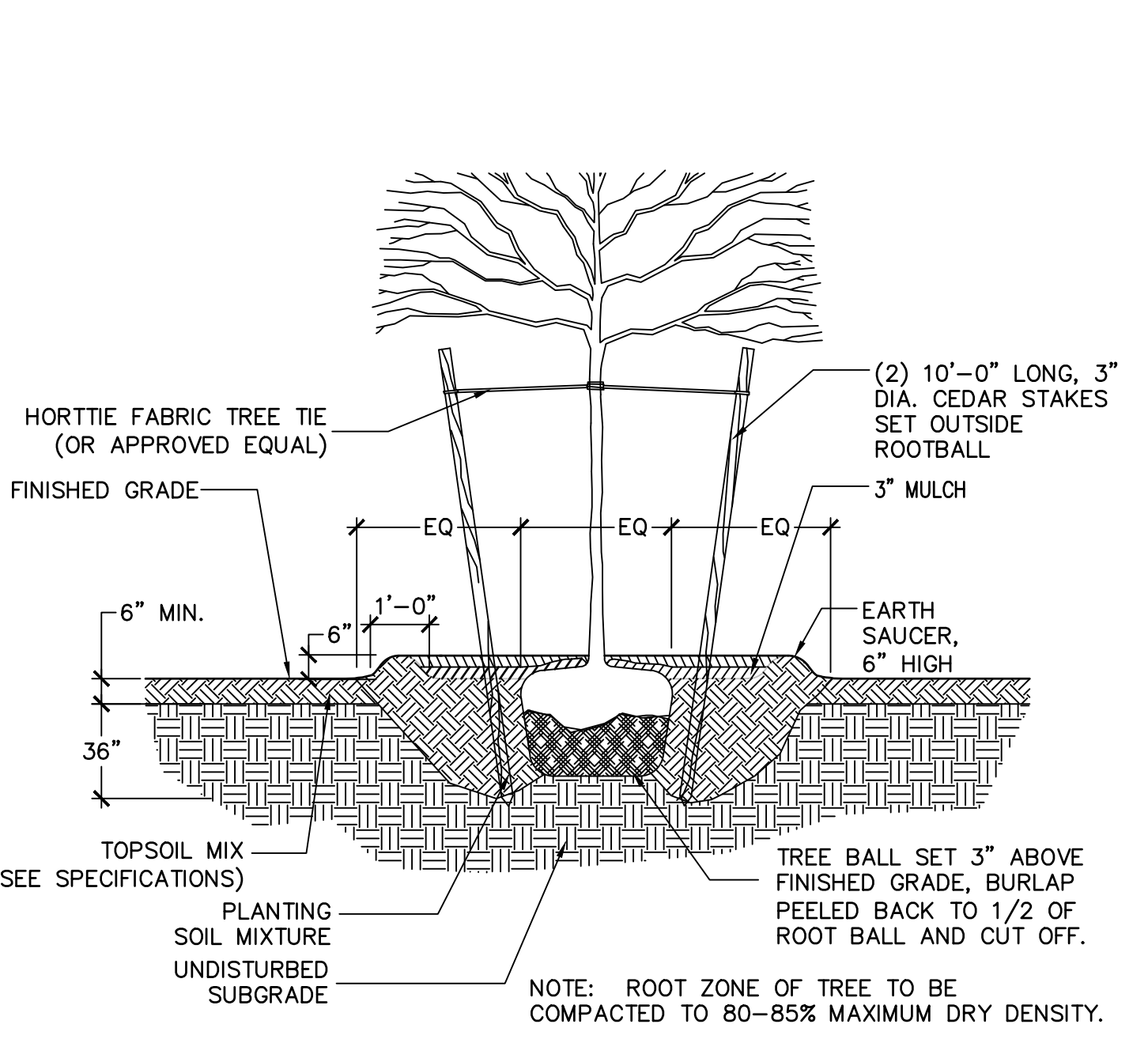
6 INFILTRATION TRENCH
SCALE: NTS



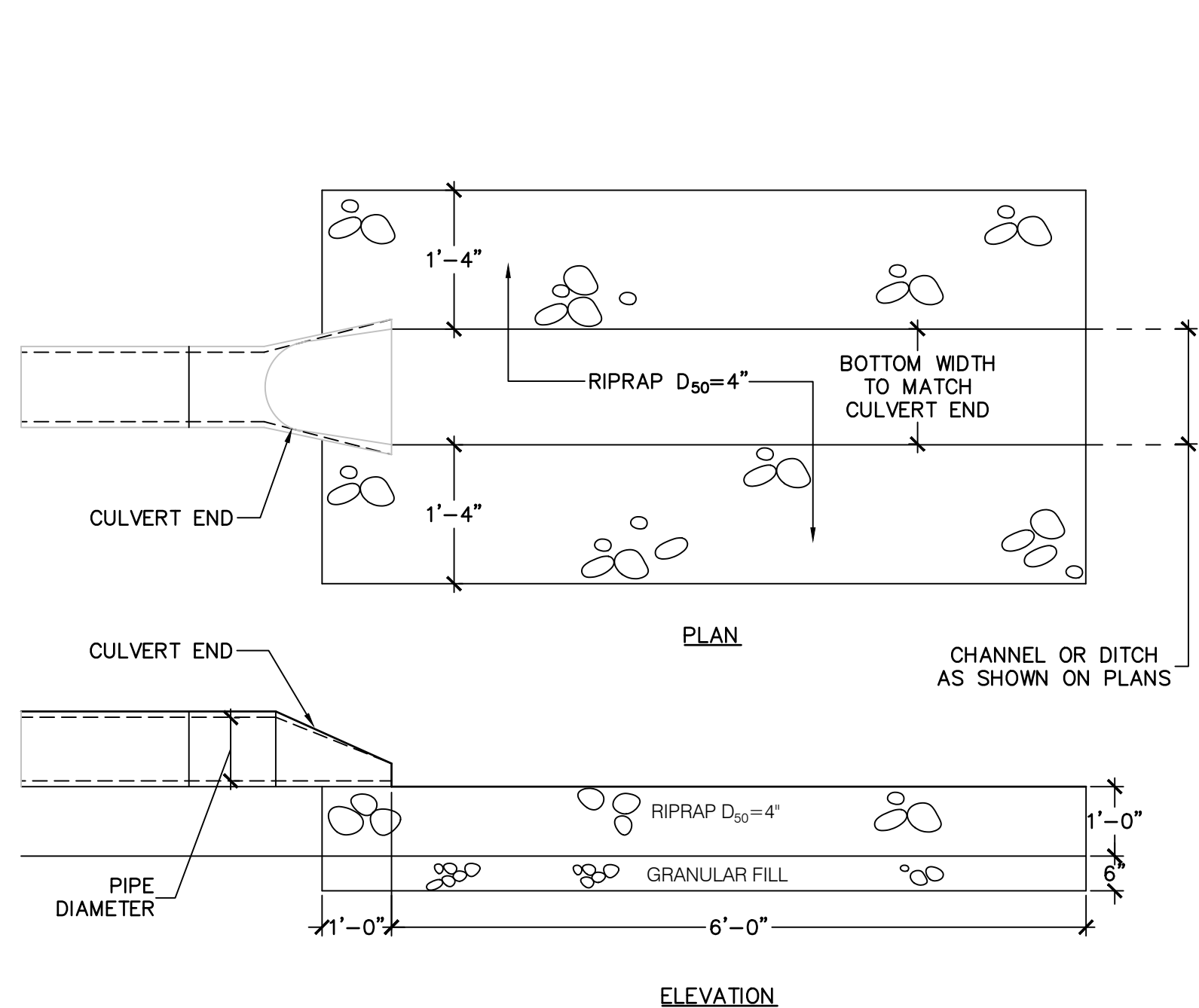
7 6" DIAMETER STEEL BOLLARD
SCALE: NTS



8 CONCRETE PAD
SCALE: NTS

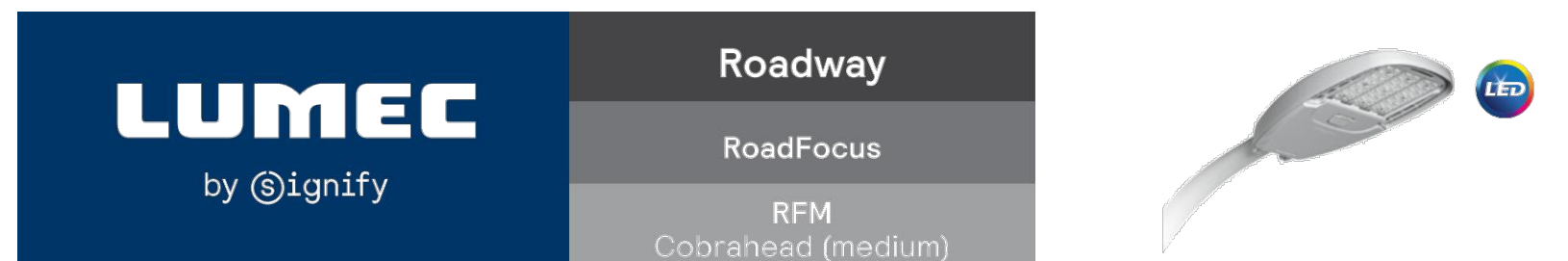


9 TYPICAL TREE PLANTING
SCALE: NTS



10 ROCK OUTLET PROTECTION
SCALE: NTS

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Lumec RoadFocus LED Cobra Head Luminaires feature a sleek design that provides seamless replacement of existing HID luminaires. RoadFocus is available in three sizes, offers multiple lumen packages, and a complete array of optical distributions, making it an outstanding solution for all types of roadway applications. Includes Service Tag, innovative way to provide assistance throughout the life of the product.

Project: _____
 Location: _____
 City/State: _____
 Type: _____
 Lamp: _____ Qty: _____
 Notes: _____

Ordering guide

Series	LED Module	CCF	Generation	Distribution	Voltage	Options	Finish
RFM	160W	4K	G2	4	UNV	DMG	GY3
RFM	30W LED	4K	6000k	Type 2	UNV 120-277V	DAU	Black
RFM	35W LED	3K	3000k	Type II short (AS7M)	HVU 347-480V	API	Black
RFM	45W LED	2.7K	2700k	Type III Medium (AS7M)		DMG	Black
RFM	50W LED			Type 3		FAMS	Black
RFM	55W LED			Type II short (AS7M)		SRD	Black
RFM	55W LED			Type III Medium (AS7M)		HS	Black
RFM	70W LED			Type 4		NBC	Black
RFM	80W LED			Type V (DYM)		NVC	Black
RFM	85W LED					PH8	Black
RFM	90W LED					PH14D	Black
RFM	100W LED					PH16	Black
RFM	100W LED					PH18	Black
RFM	130W LED					PH24	Black
RFM	160W LED					PH30	Black

1. Not available with MWU.
 2. Not available with H5 option.
 3. Use of photoelectric cell or shoring cap is required to ensure proper illumination.
 4. Select either DMU or DMG or SRD or SRD1 mandatory option.
 5. Please note this integrated feature come standard with RoadFocus.
 6. Only available with SRD or SRD1 Driver Options.
 7. Only available with DMG Driver Options.
 8. Not available with PH8, PH14D, PH16, PH18, PH24, PH30, PH36, DALI SRD or SRD1 Driver Options.
 9. Not available with SRD Driver Options.
 10. Either RCD or RCD1 must be selected for this option.
 11. Extended lead time may apply. Consult factory.
 12. FAMS table accuracy +/- 15% on these models.
 13. Not available with UNV.

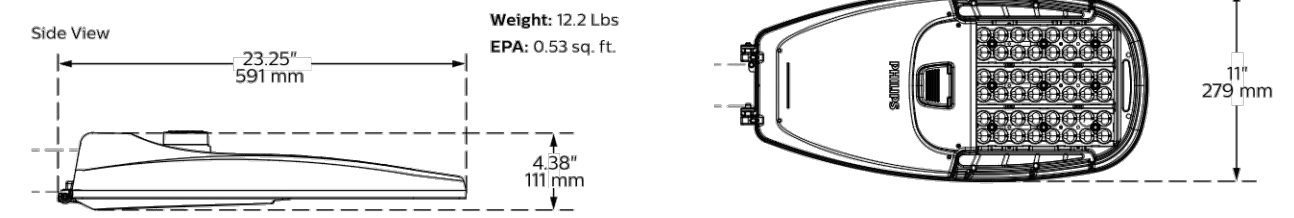
RFM RoadFocus LED Cobrahead (medium) Roadway

Field Adjustable Wattage (FAWS) Multiplier Chart

FAWS Position	Typical Delivered Lumens Multiplier	Typical System wattage
1	0.31	0.28
2	0.53	0.50
3	0.62	0.58
4	0.70	0.67
5	0.78	0.75
6	0.83	0.81
7	0.89	0.87
8	0.92	0.91
9	0.96	0.95
10	1.00	1.00

Note: Typical value accuracy +/- 5%

Dimensions



Specifications

Housing: Made of a low copper die cast Aluminum alloy (A360), 0.002" (2.5mm) minimum thickness. Fits on a 160" (40mm) O.D. (1.25" NPS), 1.18" (30mm) O.D. (1.5" NPS) or 2 3/8" (60mm) O.D. (2" NPS) by 5 1/2" (140mm) minimum long lens. Comes with a zinc plated clamp fixed by 2 zinc plated hexagonal bolts, 3/8" UNF for ease of installation. Provides an easy step adjustment of +/- 2" (51 to 2.2" increments). Includes integral bubble level standard (always included). A quick release, tool less entry, single latch, hinged, removable door opens downward to provide access to electronic components and to a terminal block. Door is secured to prevent accidental dropping or disengagement. A clearance of 1" (30mm) at the rear is required in order to remove the case. Complete with a built-in guard protecting against birds and similar intruders and an ANSI label as per C136.16-2015 to identify wattage and source (both included in box). Housing including electrical compartment rated IP54 per ANSI C136.37.

Light Engine: Composed of 4 main components: LED Module / Driver System / Heat Sink / Driver. Electrical components are RoHS compliant, IP66 sealed light engine LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines in compliance with EPA ENERGY STAR, extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan.

LED Module: Composed of high-performance white LEDs. Color temperature as per ANSI/NEMA bin 2700 Kelvin nominal (2700-3400) CR 80 min. 3000 Kelvin nominal (3045K +/- 75K) or 4000 Kelvin nominal (3985K +/- 275K, CR 70 min. 75 Typical. Other CCF/CR also available, consult factory.

Optical System: Composed of high performance UV stabilized optical grade polymer reflector lenses to achieve desired distribution optimized to get maximum spiking, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. 0% uplight and LD per IESNA TM-15.

Heat Sink: Built in the housing, designed to ensure high efficacy and superior cooling by natural vertical convection air flow pattern always close to LEDs and driver optimizing their efficiency and life. Product does not use any cooling device with moving parts (only passive cooling). Wide openings enable natural cleaning and removal of dirt and debris. Entire luminaire is rated for operation in ambient temperature of -40°C / -40°F up to +40°C / +104°F, -50°C / -122°F also available, consult factory.

Driver: High power factor of 90% min. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 100 to 277 or 347 to 480 VAC, rated for both application line to line or line to neutral, Class 1, THD of 20% max.

DMG: Dimming compatible 0-10 volts. The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built in driver surge protection of 23kV (rms).

Integrated Features:
DMG: Dimmable driver 0-10V.
RCD1: Tool less orientable receptacle with 7 pins enabling dimming and additional functionality to be determined, can be used with a test lock interest city node or photoelectric cell or a shoring cap.
SPR: Large protection device tested in accordance with ANSI/IEEE C92.45 per ANSI/IEEE C92.41.2 Scenario 1 Category C, High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA.
 Please note that these integrated features always come with RoadFocus luminaires.
 * Use of photoelectric cell or shoring cap is required to ensure proper illumination.

RoadFocus-RFM-Spec 01/19 page 1 of 5

RoadFocus-RFM-Spec 01/19 page 4 of 5



MV72 Cloud-Managed Smart Cameras



OVERVIEW

The Meraki MV72 series, part of the MV smart camera family, brings physical security and advanced analytics together in a dome form factor suitable for outdoor and demanding deployments. The powerful built-in processor -- the same kind found in many of today's smartphones -- and innovative

architecture minimizes physical infrastructure as well as software requirements. MV72 not only ensures physical safety and security but provides business intelligence, all in a refreshingly simple package.

MV72: BRINGING SECURITY AND ANALYTICS TO DEMANDING ENVIRONMENTS

As with the rest of the MV lineup, the MV72 series places high-endurance storage locally on the camera, removing the Network Video Recorder (NVR) and Video Management System (VMS) from the equation. Not only does this drastically simplify both installation and scaling, but it also eliminates a major network security vulnerability in IT infrastructure.

MV72 smart cameras are equipped with an industry-leading processor, and have a 4MP sensor for recording in up to 1080P. The processor powers advanced analytics capabilities that previously required specialized software and heavy-duty hardware. Harnessing the power of machine learning for computer

vision, MV72 smart cameras can do real-time object detection, classification, and tracking of people and vehicles. This compelling insight lays the foundation for more effective and efficient processes, journey pathing, and safe working practices.

MV72 series cameras are varifocal dome cameras, capable of up to 3x optical zoom. With IP67 and IK10+ rating, they are made to endure a variety of outdoor and other demanding environments. This, combined with an attractive industrial design and easy installation makes it a natural fit for deployments ranging from school yards to manufacturing, and everything in between.

Product Highlights

- Varifocal lens, dome camera with 36-112° horizontal FOV
- Meraki dashboard simplifies operation
- IK10+ and IP67 rated for impact resistance and ingress protection
- Secure, encrypted control architecture and storage
- Intelligent motion indexing with search engine
- Secure boot and signed firmware backed by hardware security chip
- Built-in motion analytics like Motion Search, Motion Recap, and Motion Heatmaps
- Granular user access controls
- In-camera machine learning capability for intelligent object detection
- Integrated 802.11ac wireless for easy upgrades from analog
- No special software or browser plugins required
- IR illumination up to 30m or 98ft
- Cloud-augmented edge storage minimizes physical infrastructure
- Suitable for deployments of all sizes, 1-10,000+ cameras

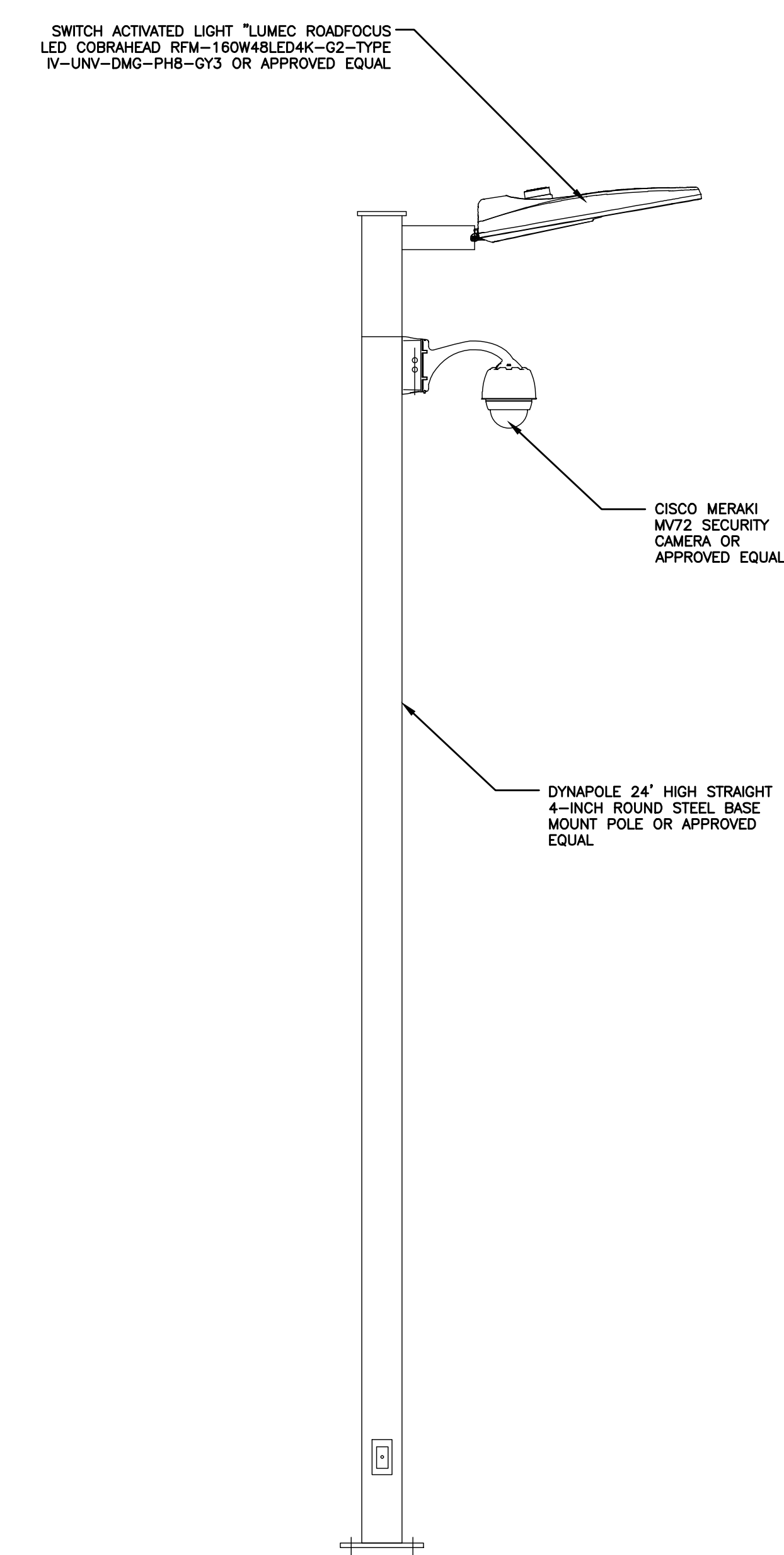
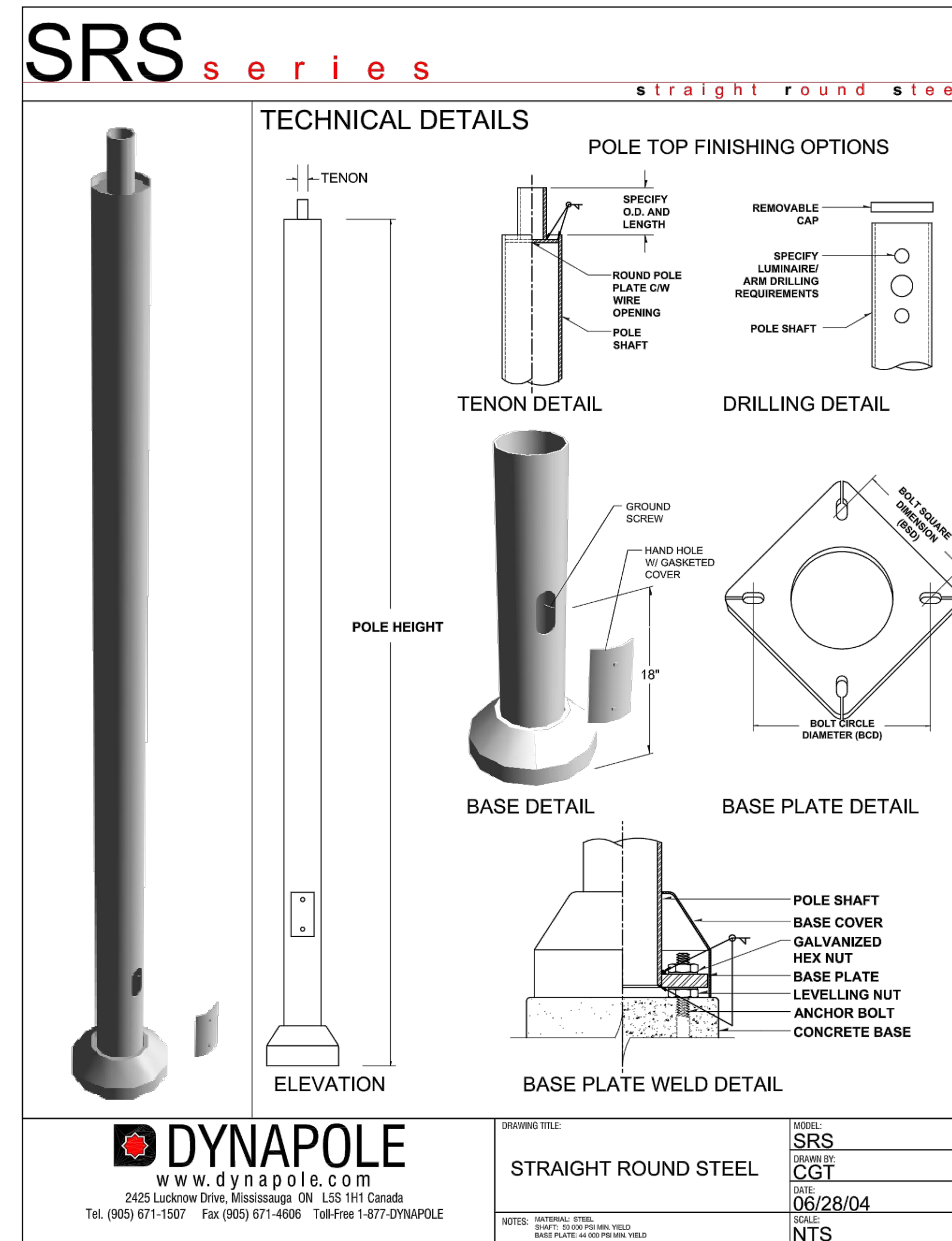
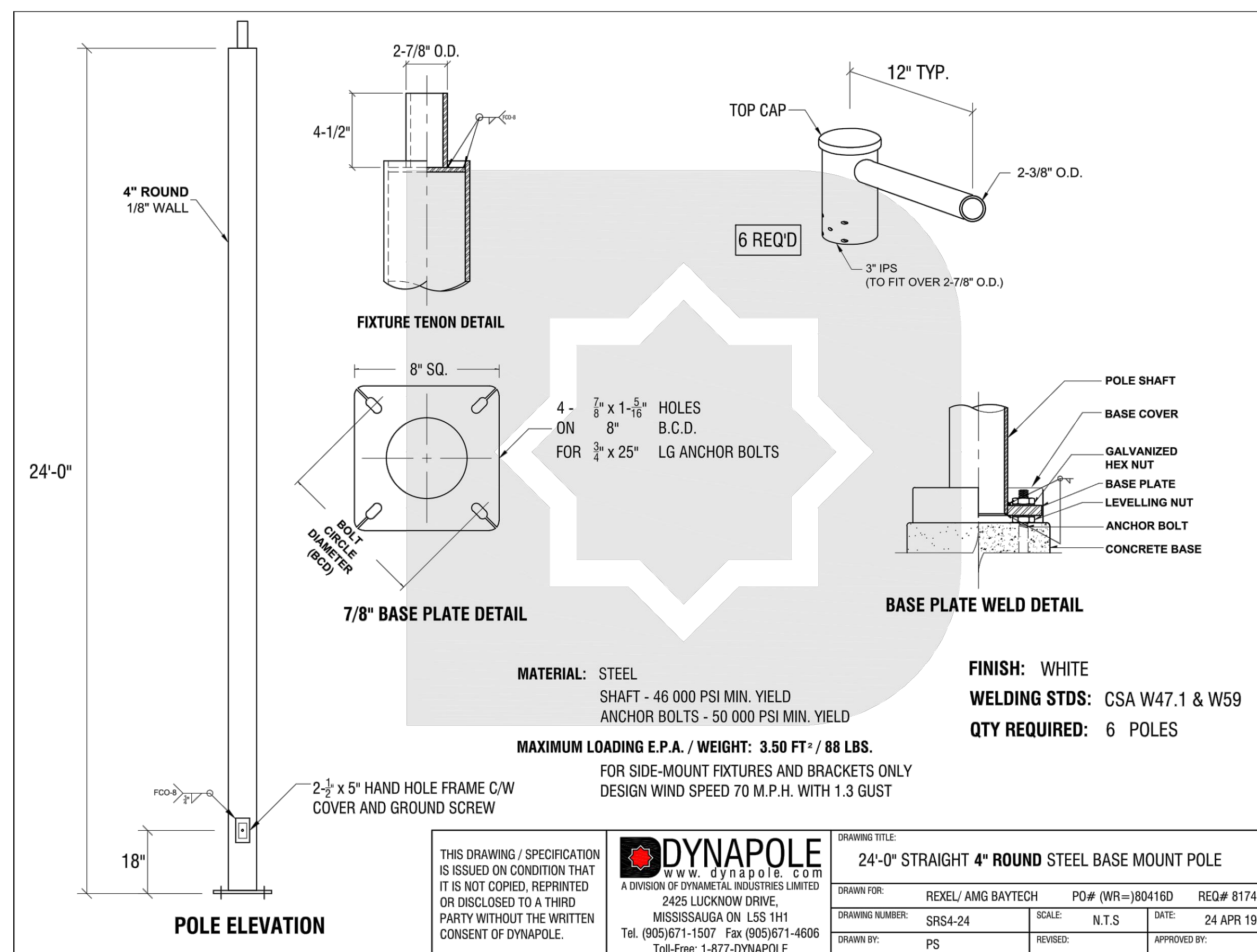
MV72 Camera Specifications

Camera	1/3" 4MP (2688x1520) progressive CMOS image sensor 256GB high endurance solid state storage (MV72) 512GB high endurance solid state storage (MV72X) 3-9mm focal length f/1.2-2.3 aperture Field of View: Horizontal 36-112°, Vertical 20-57°, Diagonal 42° - 138° Lens adjustment range: Tilt: 65°, Rotation: +/- 90°, Pan: 354° 1/30s to 1/32,000s shutter speed Minimum illumination 0.18 Lux (standard recording) and 0.01 Lux (night mode) Built-in IR illuminators, effective up to 30m (98ft) Heating elements	Environment	Temperature: 0°C - 40°C (32°F - 104°F) Temperature: -40°C - 50°C (-40°F - 122°F)**
Video	1080p HD video recording (1920x1080) with H.264 encoding up to 20fps (MV72) 4MP recording with H.264 encoding up to 15fps (MV72X) Cloud augmented edge storage (locally stored video with metadata in the cloud) Optimized retention settings (scheduling and motion-based) for variable retention Up to 90 days (MV72X) of 24/7 continuous video storage per camera* Direct live streaming with no client software (native browser playback)** Stream video anywhere with automatic cloud proxy High dynamic range (HDR) Audio recording supported with built-in microphone	Data and Network Security	Full disk encryption (AES 256-bit) Automatically purchased and provisioned TLS certificates (publicly-signed) Management encryption and two-factor authentication Wireless security: WPA, WPA2-PSK, WPA2-Enterprise with 802.1X EAP-TLS TKIP and AES encryption
Networking and Wireless	1x 10/100/1000 Base-T Ethernet (RJ45) DSCP traffic marking Supported frequency bands (country-specific restrictions apply): 2.4 GHz 802.11b/g/n radio 2.412 - 2.484 GHz 5 GHz 802.11a/n/ac radio 5.150 - 5.250 GHz (LUN1-1) 5.250 - 5.350 GHz (LUN1-2) 5.470 - 5.600, 5.660 - 5.725 GHz (LUN1-2) 5.725 - 5.825 GHz (LUN1-3)	Physical Characteristics	Dimensions 165mm x 103mm (diameter x height) Weight 1247g Female RJ45 Ethernet connector Multicolor, multifunction status LED Reset button
Power	1x1 with one spatial stream MU-MIMO support 20 and 40 MHz channels (802.11n) 20, 40, and 80 MHz channels (802.11ac) Up to 256 QAM on both 2.4 GHz and 5 GHz bands Integrated omni-directional antennas (4.4 dBi gain at 2.4 GHz, 6.3 dBi gain at 5 GHz) 2.4 GHz Bluetooth Low Energy (BLE) radio	Warranty	Warranty 3 year hardware warranty with advanced replacement
		Ordering Information	MV72-HW: Varifocal Outdoor Dome Camera with 256GB Storage MV72-XW: Varifocal Outdoor Dome Camera with 512GB Storage LIC-MV-XVR: Meraki MV Enterprise License (X = 1, 3, 5, 7, 10 years) MA-NU-4-XX: Meraki 802.3af Power over Ethernet Injector (XX = US, EU, UK, or AU) MA-PWR-MV-LV: Low voltage 12VDC/24VAC input PoE injector for MV cameras
		In The Box	Quick start & installation guide MV camera hardware Wall mounting kit
		Notes:	*Note: Each Meraki camera requires a license to operate **Storage duration dependent on encoding settings and camera storage model ***Browser support for H.264 decoding required ****The MV72 camera heater will automatically turn on at lower temperatures to preserve normal camera operation.*** Storage duration dependent on encoding settings and camera storage model.

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TITLE OF DRAWING		LIGHTING DETAILS	
FA PROJECT NO.	200597	PROJECT MANAGER	S. MELLOTT
DRAWN BY	C. HARVEY	SCALE	AS SHOWN
ISSUE DATE	10/02/2020	DESCRIPTION	1 SWITCH ACTIVATED LIGHTS
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REV	6	DESCRIPTION	
REV	5	DESCRIPTION	
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PROJECT		NSF CHAUMONT SITE 1-5 LLC VILLAGE OF CHAUMONT JEFFERSON COUNTY, NY	
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TITLE OF DRAWING		LIGHTING DETAILS	
FA PROJECT NO.	200597	PROJECT MANAGER	S. MELLOTT
DRAWN BY	C. HARVEY	ISSUE DATE	10/02/2020
SCALE	AS SHOWN	AS SHOWN	
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REV	DESCRIPTION	DATE	BY
1	SWITCH ACTIVATED LIGHTS	6/29/21	SCM