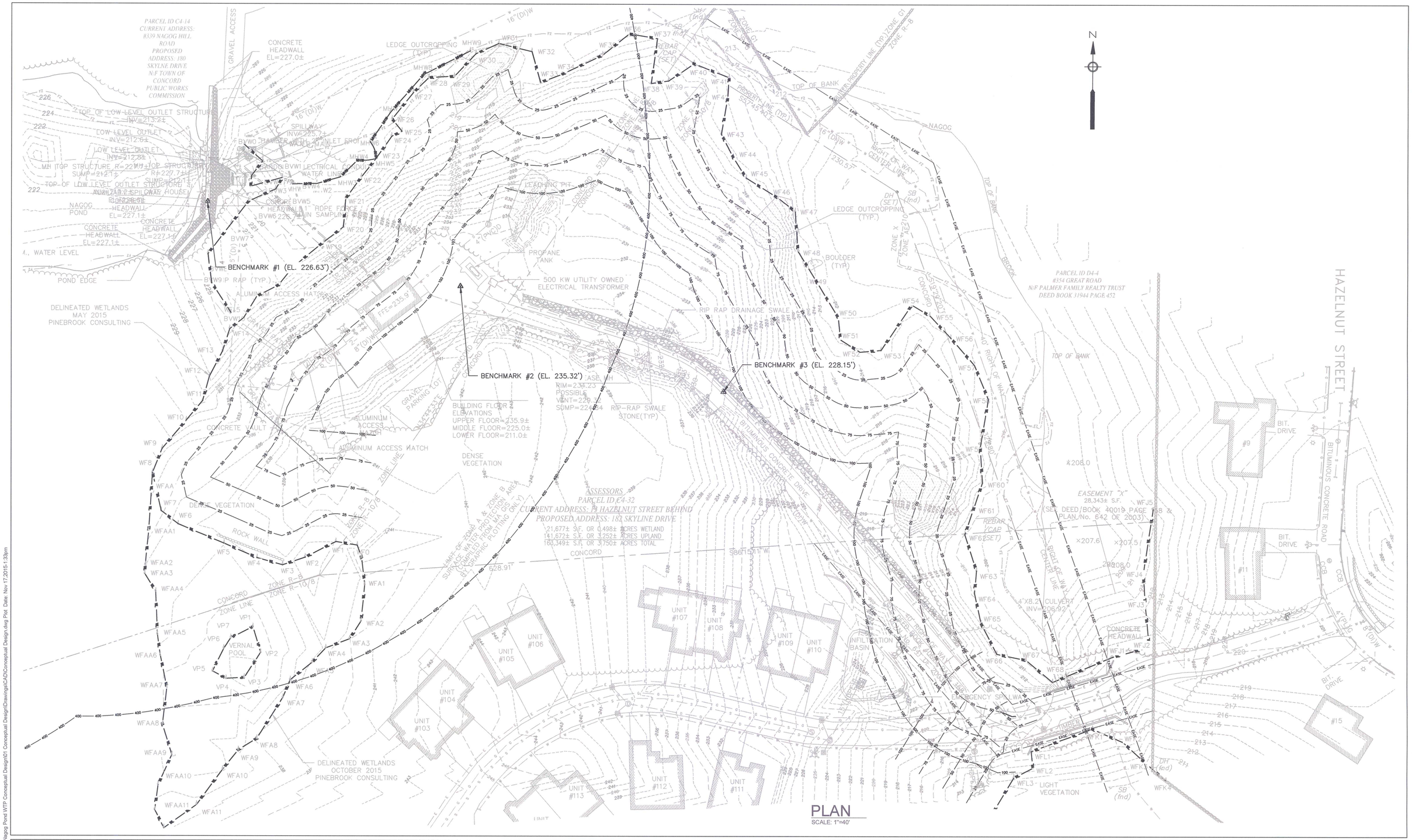

PLAN
SCALE: 1"=40'

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COMMONWEALTH OF MASSACHUSETTS
STEPHEN C. OLSON
CIVIL
No. 39140
PROFESSIONAL ENGINEER
11/9/15

MARK	DATE	DESCRIPTION

Scale	1" = 40'
Date	NOVEMBER 2015
Job No.	200-1501
Designed by	LEU
Drawn by	LEU
Checked by	DNRP
Approved by	SCO

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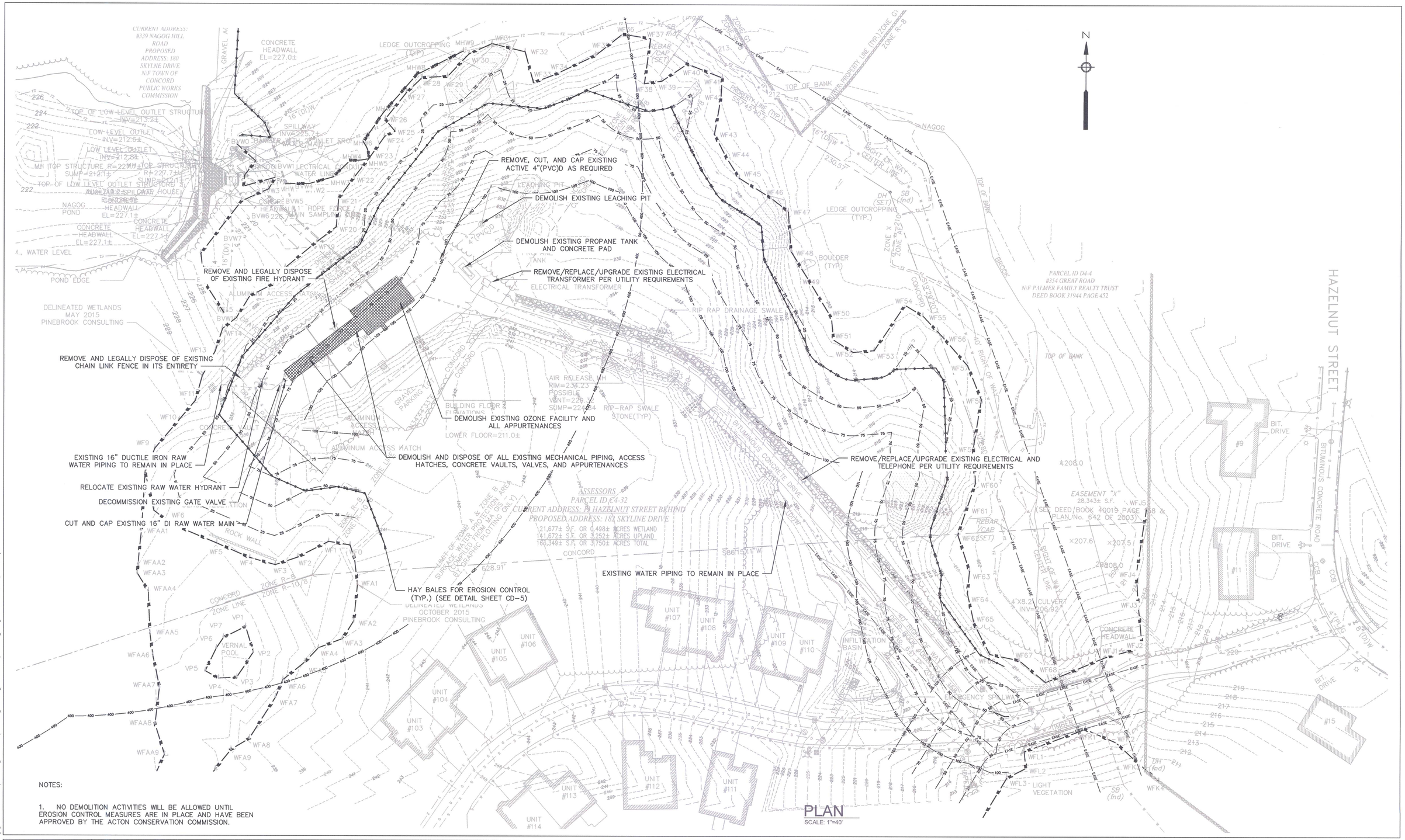
NAGOG POND WATER TREATMENT PLANT
TOWN OF CONCORD, MASSACHUSETTS
WTP AND SOLAR ARRAY
EXISTING CONDITIONS PLAN

FOR PERMITTING
Sheet No.
C-7

Drawing file: I:\Concord\200\200-1501 Nagog Pond WTP Conceptual Design\01 Conceptual Design\Drawings\CAD\Conceptual Design.dwg Plot Date: Nov 17,2015-1:32pm



NOTES:

1. NO DEMOLITION ACTIVITIES WILL BE ALLOWED UNTIL EROSION CONTROL MEASURES ARE IN PLACE AND HAVE BEEN APPROVED BY THE ACTON CONSERVATION COMMISSION.

PLAN
SCALE: 1"=40'

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Job No.	200-1501
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Checked by	DNRP
Approved by	SCO

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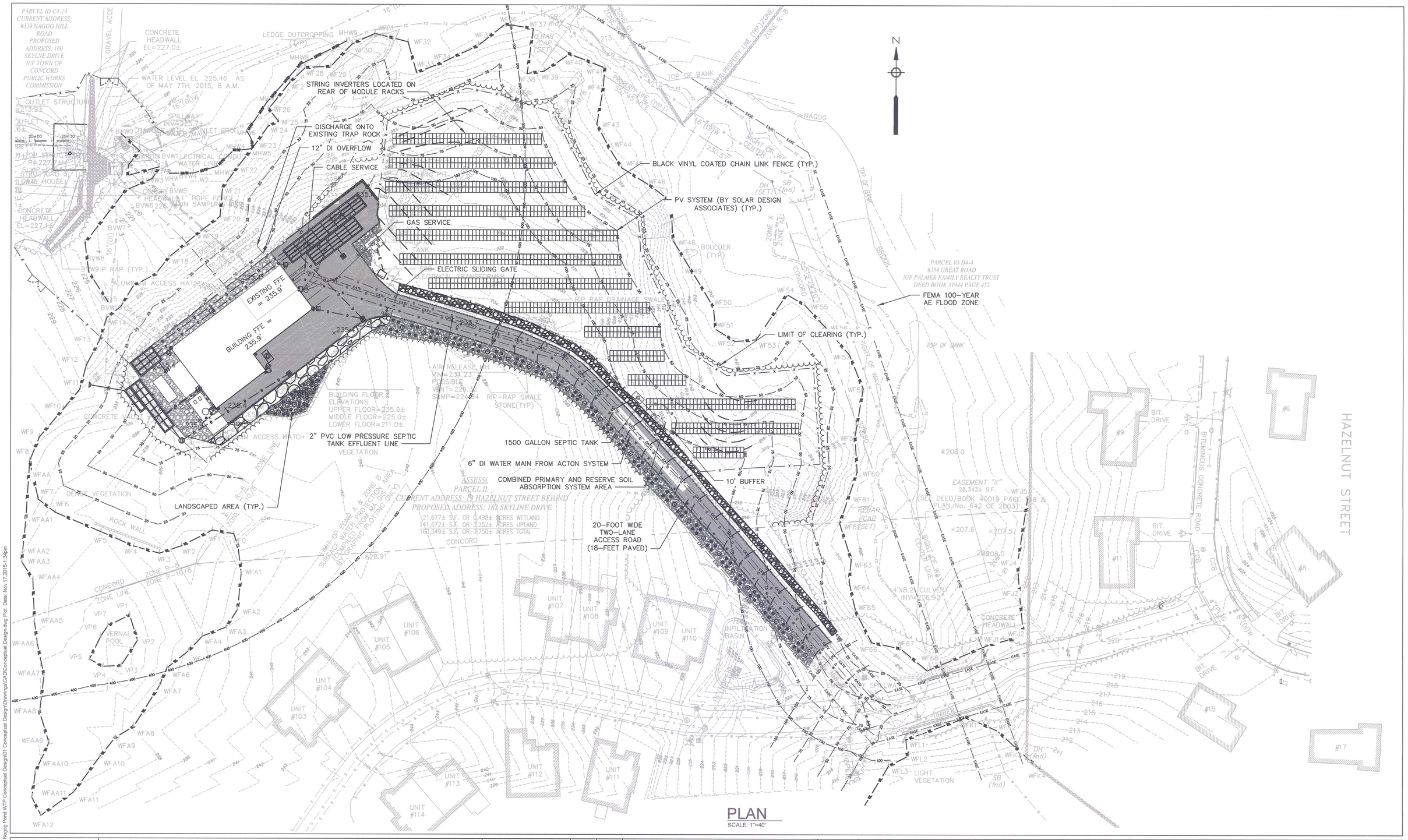
NAGOG POND WATER TREATMENT PLANT
TOWN OF CONCORD, MASSACHUSETTS
WTP AND SOLAR ARRAY DEMOLITION AND EROSION CONTROL PLAN

FOR PERMITTING
Sheet No.
C-8

Drawing file: I:\Concord.200\200-1501 Nagog Pond WTP Conceptual Design\01 Conceptual Design\Drawings\CAD\Conceptual Design.dwg Plot Date: Nov 17,2015-1:34pm



PLAN
SCALE: 1"=40'

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Approved by	SCO

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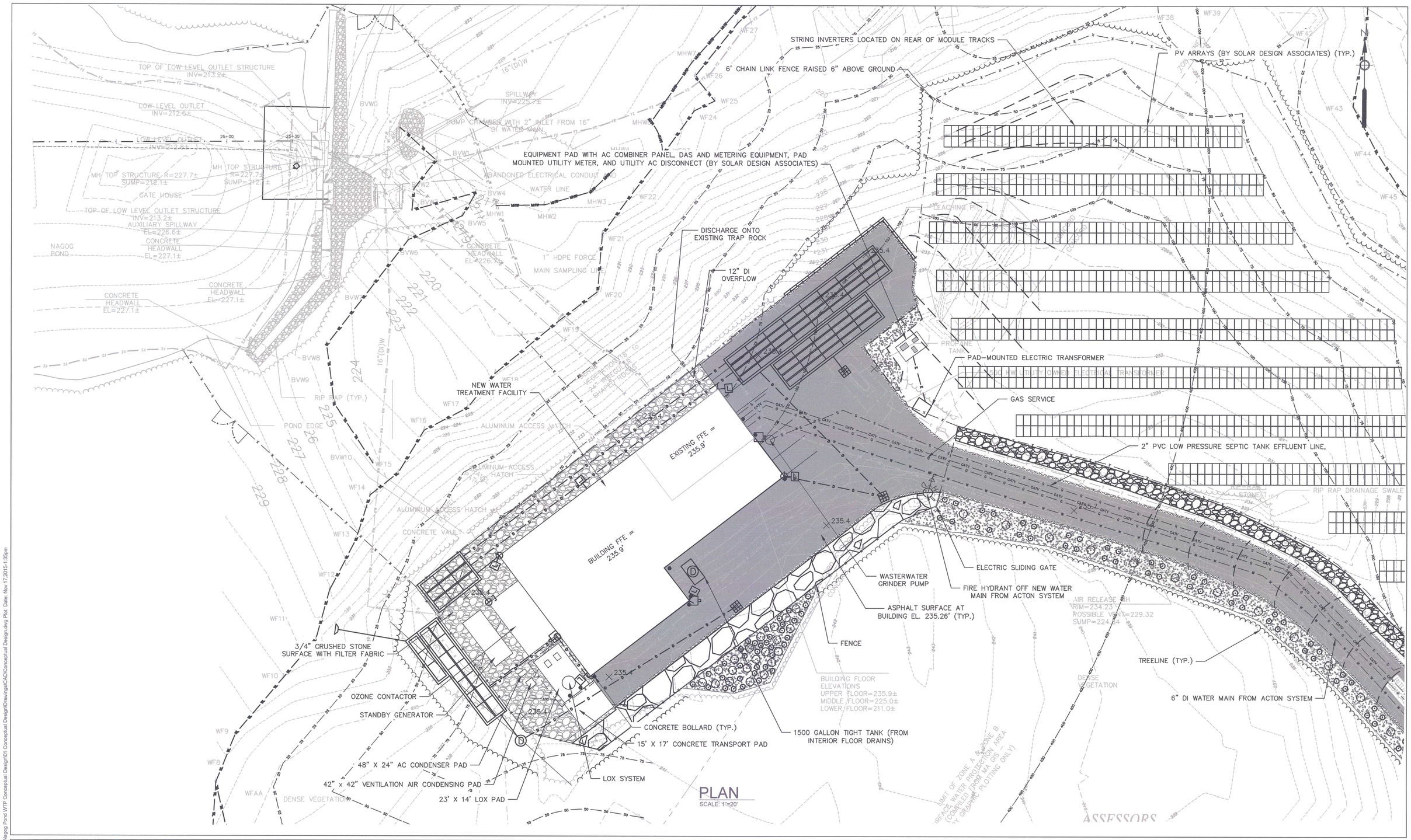
NAGOG POND WATER TREATMENT PLANT
TOWN OF CONCORD, MASSACHUSETTS
WTP AND SOLAR ARRAY
LAYOUT PLAN - 40 SCALE

FOR PERMITTING
Sheet No.
C-9

Drawing file: I:\Concord 200\200-1501 Nagog Pond WTP Conceptual Design\01 Conceptual Design\Drawings\CAD\Conceptual Design.dwg Plot Date: Nov 17,2015-1:34pm



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MARK	DATE	DESCRIPTION

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Drawn by	LEU
Checked by	DNRP
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NAGOG POND WATER TREATMENT PLANT

TOWN OF CONCORD, MASSACHUSETTS

WTP AND SOLAR ARRAY

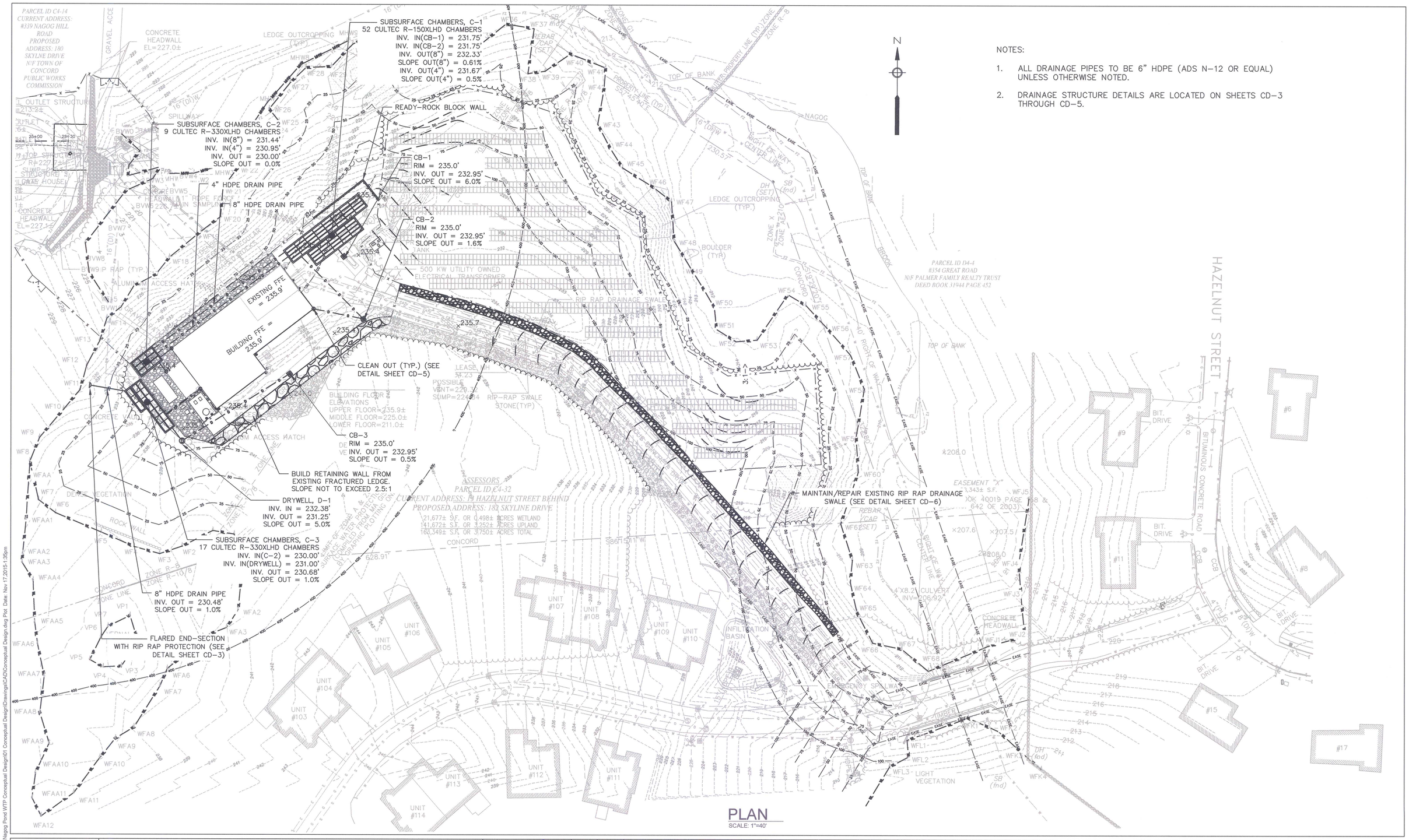
LAYOUT PLAN - 20 SCALE

FOR PERMITTING

Sheet No.

C-10

Drawing file: I:\Concord 200\200-1501 Nagog Pond WTP Conceptual Design\01 Conceptual Design\Drawings\CAD\Conceptual Design.dwg Plot Date: Nov 17,2015-1:35pm



NOTES:

1. ALL DRAINAGE PIPES TO BE 6" HDPE (ADS N-12 OR EQUAL) UNLESS OTHERWISE NOTED.
2. DRAINAGE STRUCTURE DETAILS ARE LOCATED ON SHEETS CD-3 THROUGH CD-5.

PLAN

SCALE: 1"=40'

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COMMONWEALTH OF MASSACHUSETTS
STEPHEN C. OLSON
CIVIL
No. 39113
REGISTERED PROFESSIONAL ENGINEER
11/9/15

MARK	DATE	DESCRIPTION

Scale	1" = 40'
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Job No.	200-1501
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Checked by	DNRP
Approved by	SCO

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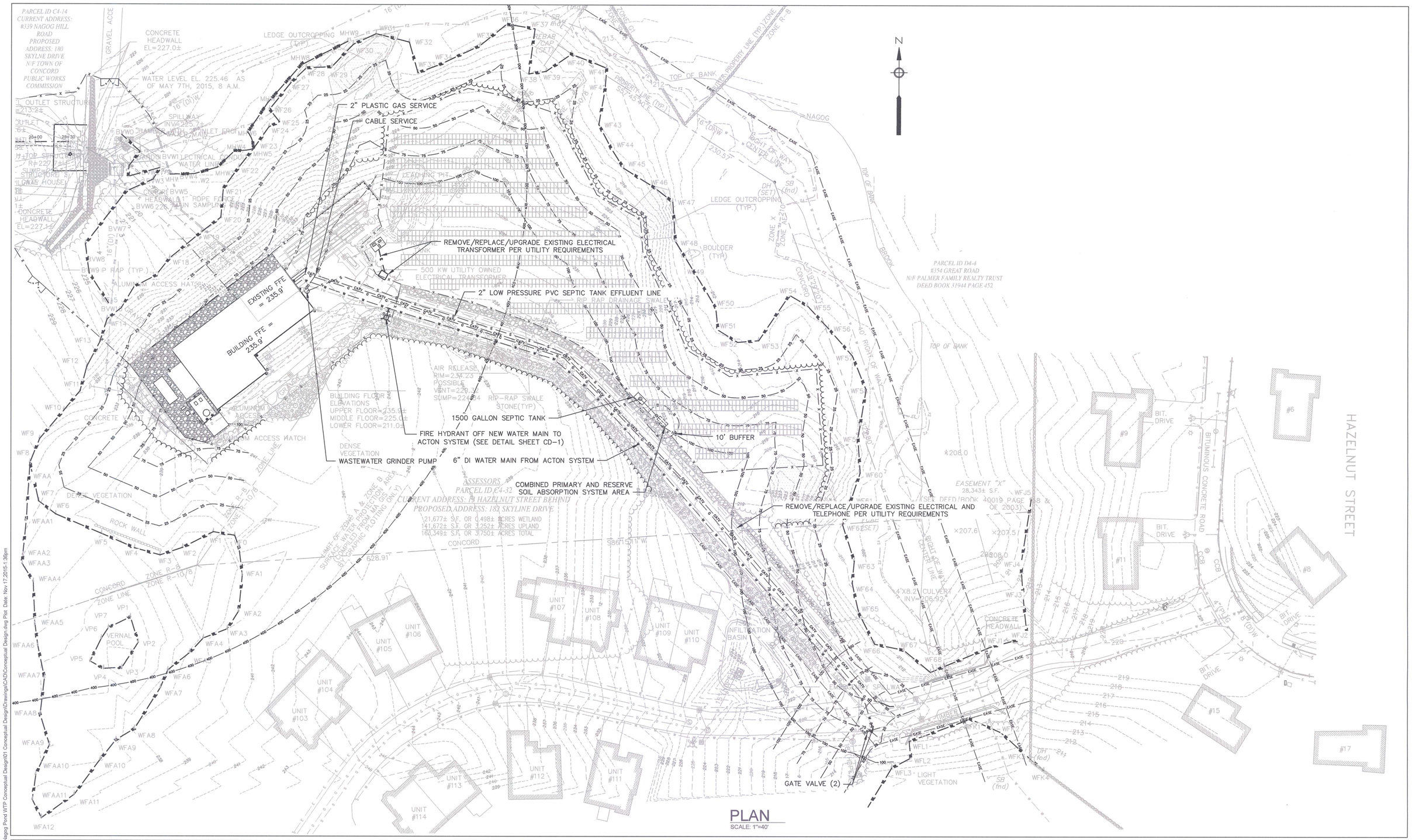
NAGOG POND WATER TREATMENT PLANT
TOWN OF CONCORD, MASSACHUSETTS
WTP AND SOLAR ARRAY
GRADING AND DRAINAGE PLAN

FOR PERMITTING

Sheet No.
C-11

Drawing file: I:\Concord 200\200-1501 Nagog Pond WTP Conceptual Design\01 Conceptual Design\Drawings\CAD\Conceptual Design.dwg Plot Date: Nov 17,2015-1:35pm



PLAN
SCALE: 1"=40'

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MARK	DATE	DESCRIPTION

Scale	1" = 40'
Date	NOVEMBER 2015
Job No.	200-1501
Designed by	LEU
Drawn by	LEU
Checked by	DNRP
Approved by	SCO

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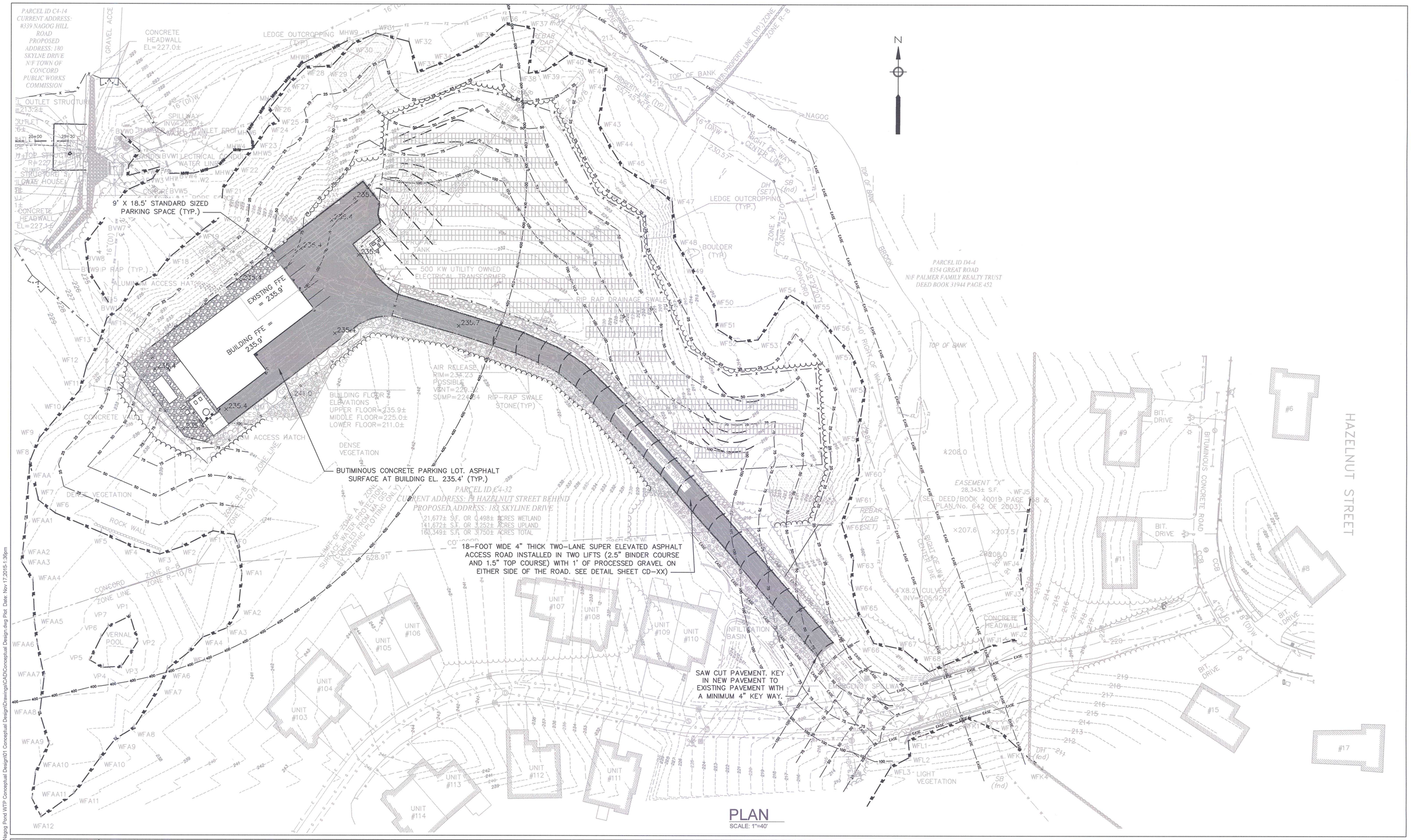
NAGOG POND WATER TREATMENT PLANT
TOWN OF CONCORD, MASSACHUSETTS
WTP AND SOLAR ARRAY
SITE UTILITIES PLAN

FOR PERMITTING
Sheet No.
C-12

Drawing file: I:\Concord 200\200-1501 Nagog Pond WTP Conceptual Design\01 Conceptual Design\Drawings\CAD\Conceptual Design.dwg Plot Date: Nov 17,2015-1:36pm



PLAN

SCALE: 1"=40'

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COMMONWEALTH OF MASSACHUSETTS STEPHEN J. OLSON CIVIL No. 45365 REGISTERED PROFESSIONAL ENGINEER

11/9/15

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NAGOG POND WATER TREATMENT PLANT

TOWN OF CONCORD, MASSACHUSETTS

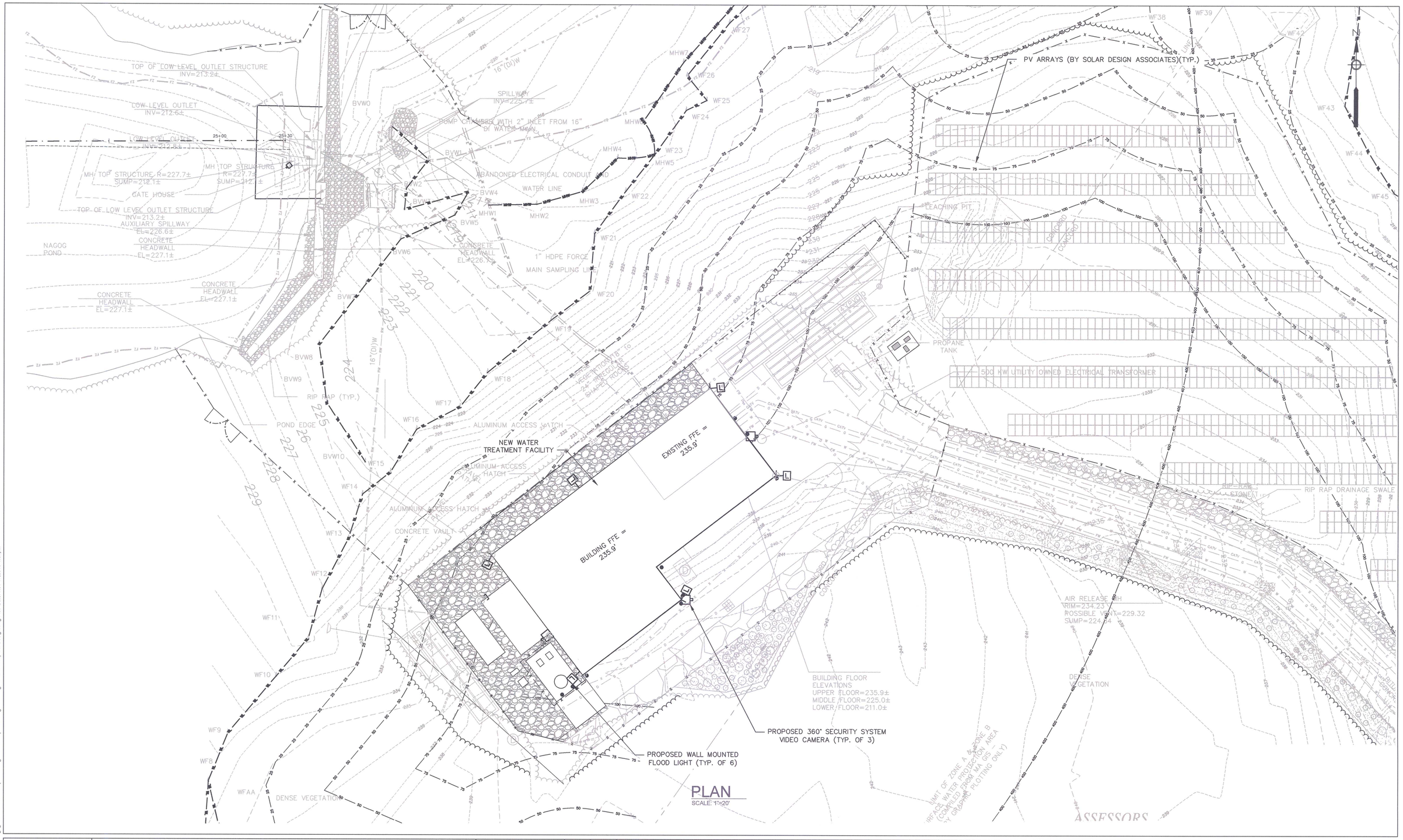
WTP AND ACCESS ROAD

PAVING AND GRADING PLAN

FOR PERMITTING

Sheet No. C-13

Drawing file: I:\Concord 200\200-1501 Nagog Pond WTP Conceptual Design\01 Conceptual Design\Drawings\CAD\Conceptual Design.dwg Plot Date: Nov 17,2015-1:36pm



PLAN
SCALE: 1"=20'

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STEPHEN C. OLSON
CIVIL
No. 39743
REGISTERED PROFESSIONAL ENGINEER
11/18/15

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Approved by	SCO

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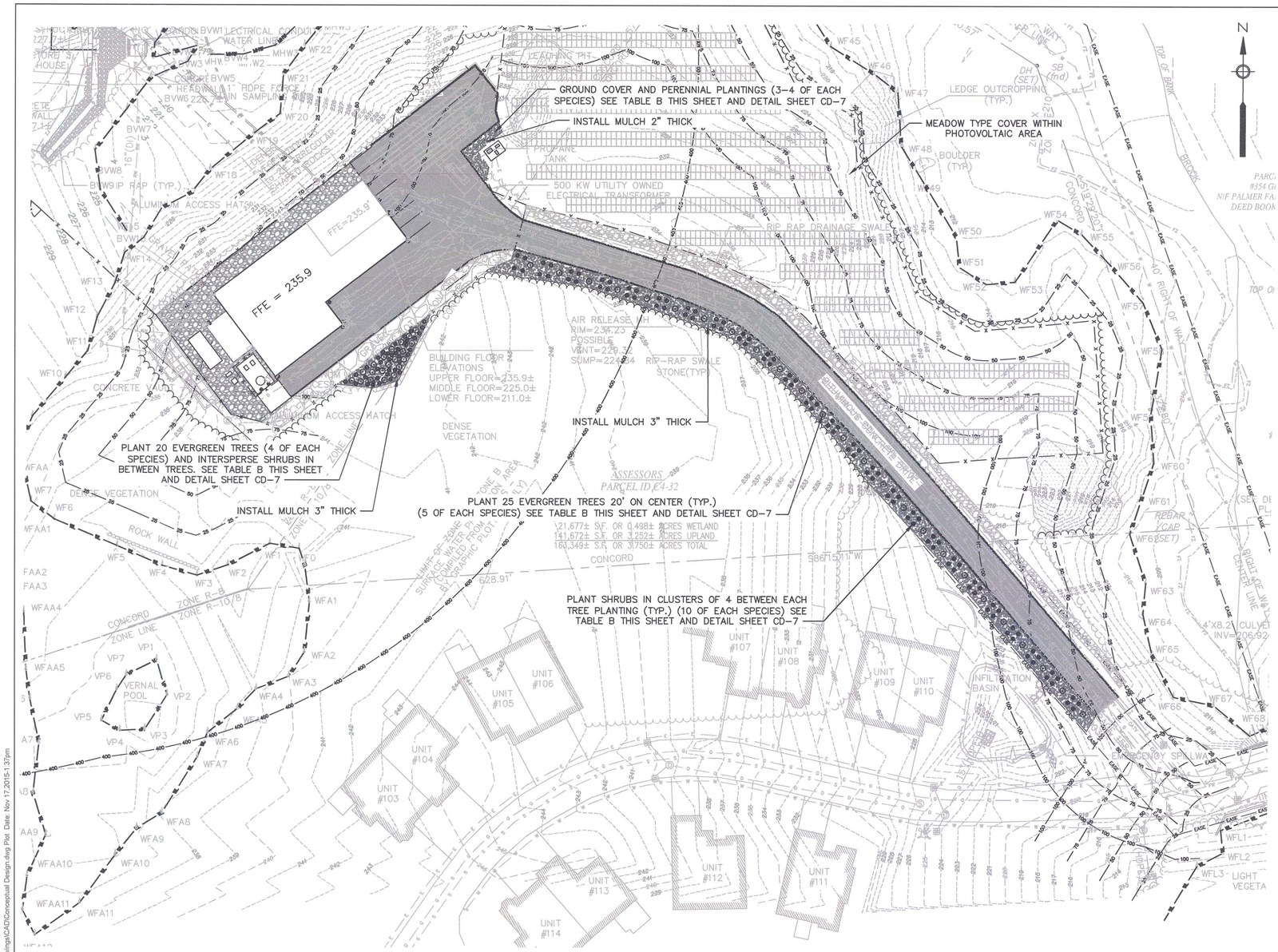
NAGOG POND WATER TREATMENT PLANT
TOWN OF CONCORD, MASSACHUSETTS
WTP AND SOLAR ARRAY
EXTERIOR LIGHTING AND SECURITY PLAN

FOR PERMITTING
Sheet No.
C-14

Drawing file: I:\Concord.200\200-1501 Nagog Pond WTP Conceptual Design\01 Conceptual Design\Drawings\CAD\Conceptual Design.dwg Plot Date: Nov 17,2015-1:37pm



PLAN
SCALE: 1"=40'

TABLE B - NAGOG POND WATER TREATMENT FACILITY PLANT SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
EVERGREEN TREES					
ABS BAL	39	Abies balsamea	Balsam Fir	8' B&B	Mass. Native species
ILX OPA	25	Ilex opaca	American Holly	8' B&B	Mass. Native species
PIN RES	35	Pinus resinosa	Red Pine	8' B&B	Mass. Native species
PIN STR	41	Pinus strobus	White Pine	8' B&B	Mass. Native species
TSG CAN	18	Tsuga canadensis	Eastern Hemlock	8' B&B	Mass. Native species
SHRUBS					
Cle aln	13	Clethra alnifolia 'Hummingbird'	Sweet Pepperbush	3 gal.	Mass. Native species
Cor amo	3	Cornus amomum	Silky Dogwood	3 gal.	Mass. Native species
Cor rac	21	Cornus racemosa	Gray-twigged Dogwood	3 gal.	Mass. Native species
Cor ser	9	Cornus sericea 'Flavimera'	Yellowtig Dogwood	3 gal.	Mass. Native species
Ham vrn	5	Hamamelis vernalis	Spring Witchhazel	3 gal.	Mass. Native species
Ilx glb	11	Ilex glabra 'Chamzin/Nordic'	Nordic Inkberry	3 gal.	Mass. Native species
Ilx vrt	18	Ilex verticillata 'Sparkleberry'	Sparkleberry Winterberry	3 gal.	Mass. Native species
Vac cry	19	Vaccinium corymbosum	Highbush Blueberry	3 gal.	Mass. Native species
Vib det	15	Viburnum dentatum	Arrowwood Viburnum	3 gal.	Mass. Native species
Vib lnt	8	Viburnum lentago	Nannyberry	3 gal.	Mass. Native species
PERENNIALS & GROUND COVERS					
Arc uva	44	Arctostaphylos uva-ursi	Bearberry	1 gal.	Mass. Native species
Asa can	65	Asarum canadense	Wild Ginger	1 gal.	Mass. Native species
Hem spp	44	Hemerocallis spp.	Daylily	1 gal.	
Ver spc	65	Veronica spicata	Speedwell	1 gal.	

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STEPHEN C. OLSON
No. 39143
REGISTERED PROFESSIONAL ENGINEER
11/16/15

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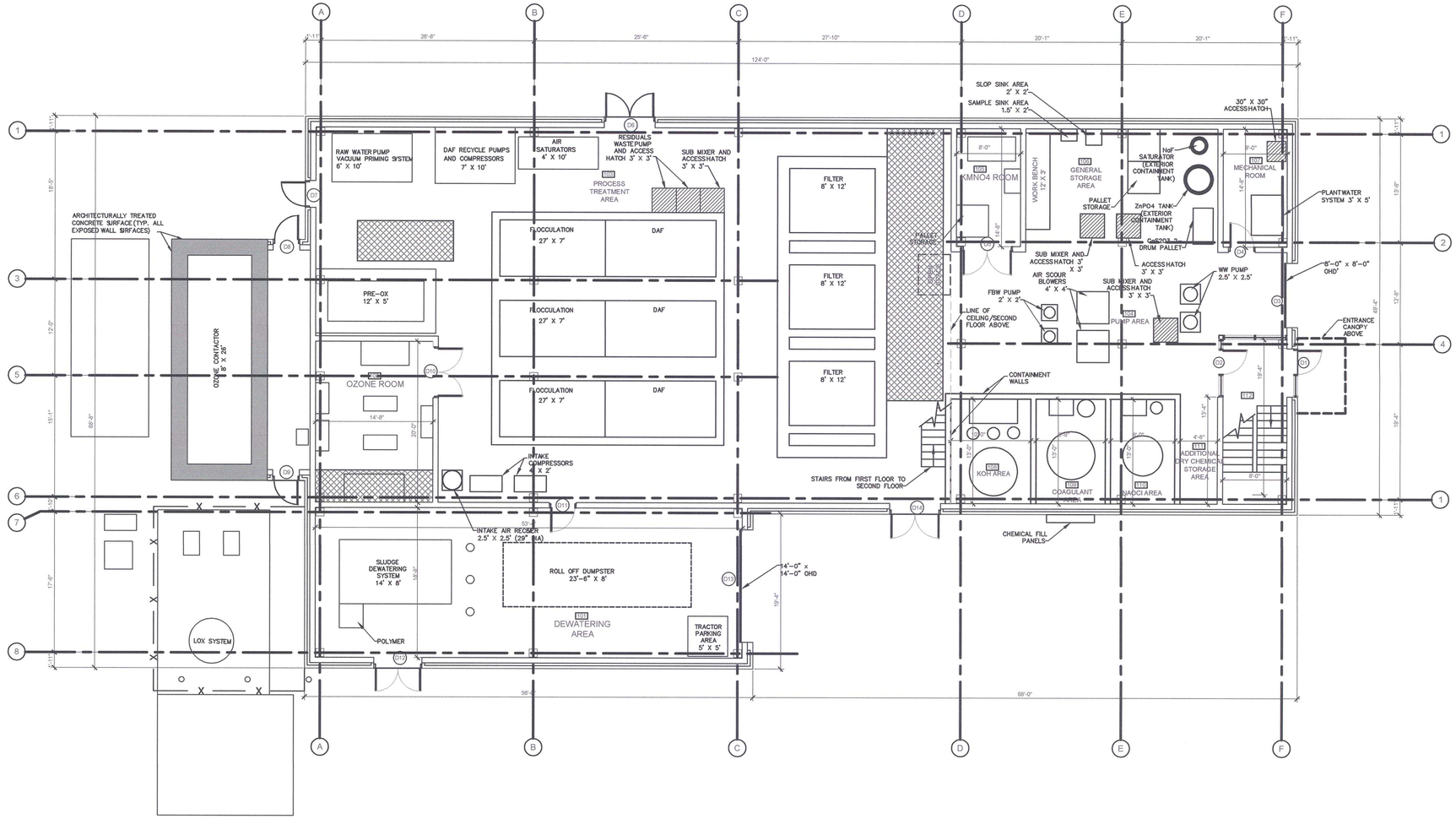
NAGOG POND WATER TREATMENT PLANT
TOWN OF CONCORD, MASSACHUSETTS
WTP AND SOLAR ARRAY
LANDSCAPING PLAN

FOR PERMITTING
Sheet No.
C-15



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STEPHEN C. OLSON
CIVIL
No. 39143
REGISTERED PROFESSIONAL ENGINEER
11/6/15

MARK	DATE	DESCRIPTION

Scale	1/8" = 1'-0"
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Checked by	AJD
Approved by	AJD

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NAGOG POND WATER TREATMENT PLANT

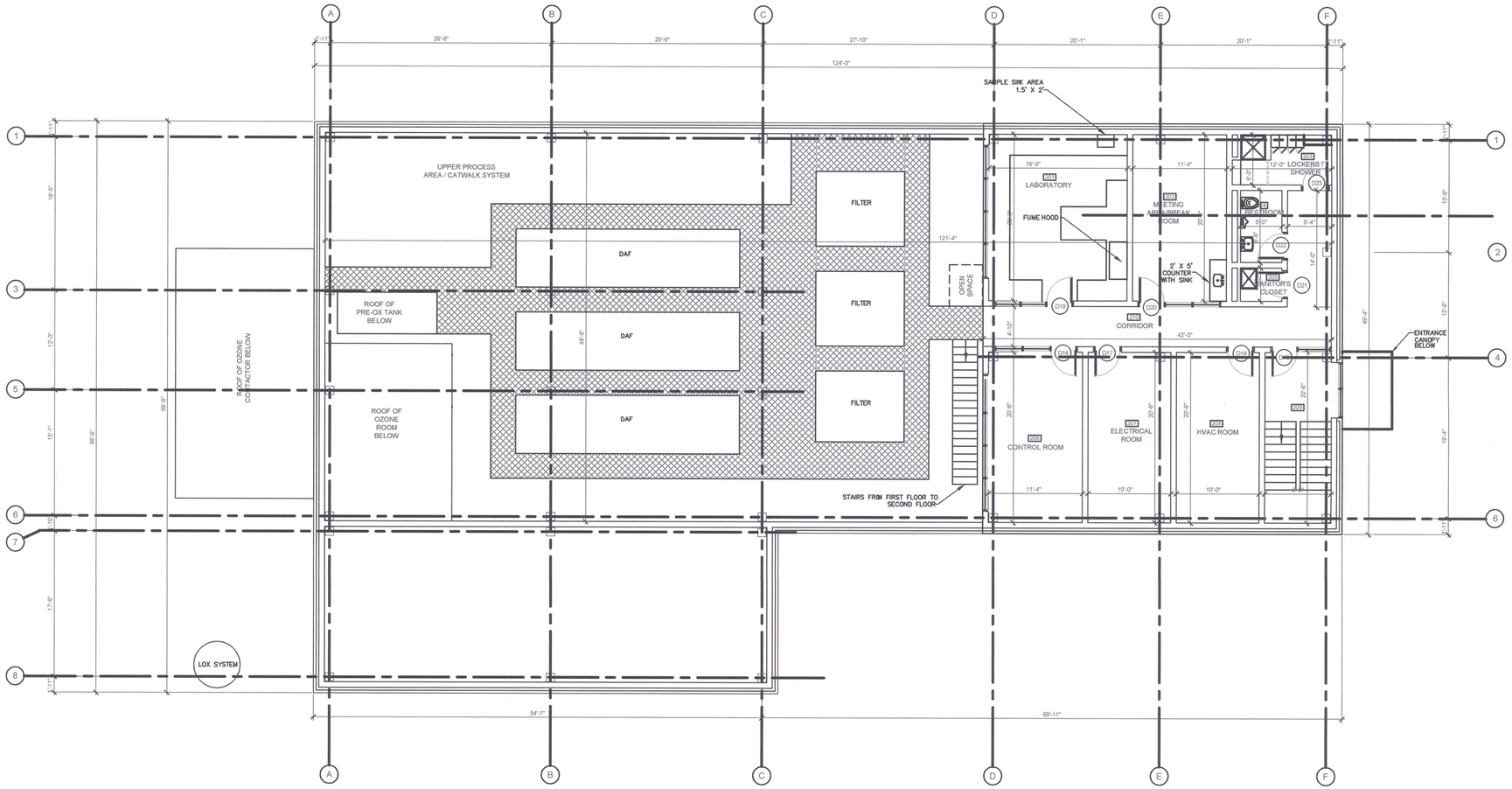
TOWN OF CONCORD, MASSACHUSETTS

FIRST FLOOR PLAN

FOR PERMITTING

Sheet No.

A-1



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MARK	DATE	DESCRIPTION

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Date	NOVEMBER 2015
Job No.	200-1501
Designed by	AJD
Drawn by	TBC
Checked by	AJD
Approved by	AJD

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NAGOG POND WATER TREATMENT PLANT

TOWN OF CONCORD, MASSACHUSETTS

SECOND FLOOR PLAN

FOR PERMITTING

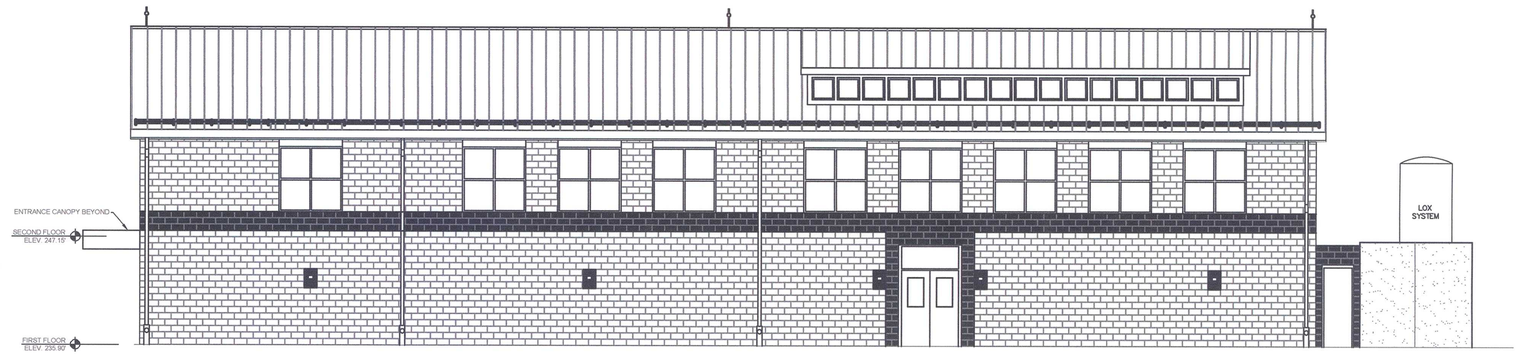
Sheet No.

A-2

1 EAST ELEVATION (FRONT)

2 SOUTH ELEVATION

3 WEST ELEVATION



4 NORTH ELEVATION

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Drawn by	TBC
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Approved by	AJD

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NAGOG POND WATER TREATMENT PLANT

TOWN OF CONCORD, MASSACHUSETTS

EXTERIOR ELEVATIONS

FOR PERMITTING

Sheet No.

A-3