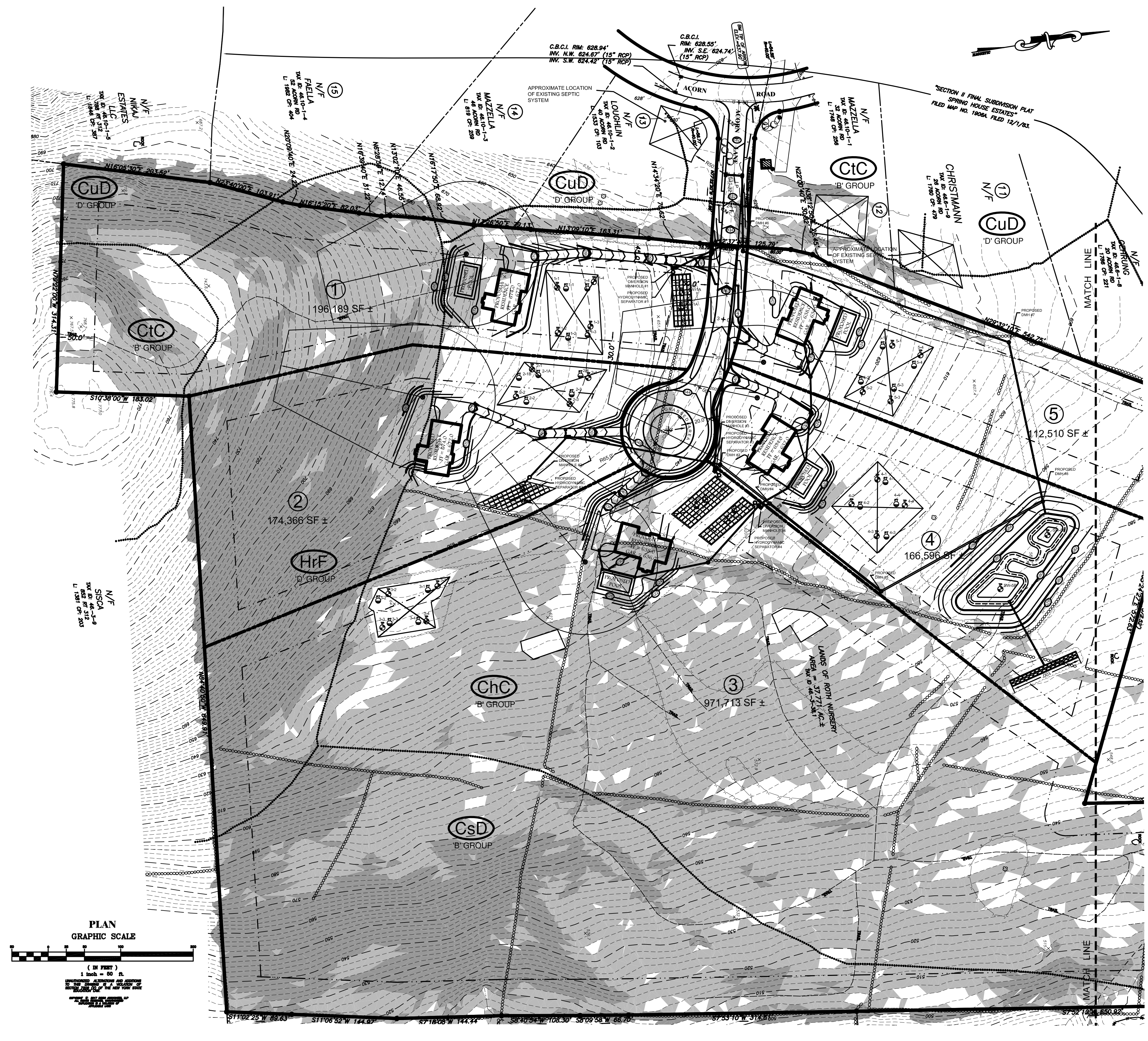
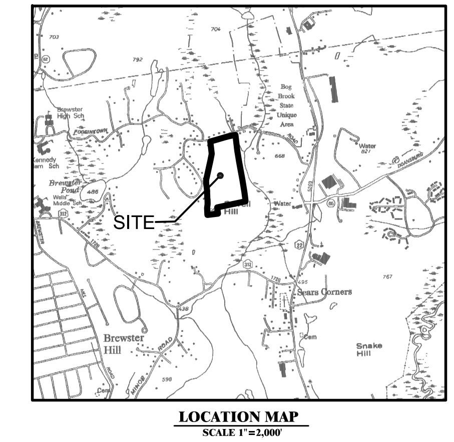




LOCATION MAP
SCALE 1"=2,000'

SOIL LEGEND:

SOIL SYMBOL	DESCRIPTION	HYD. GROUP
ChC	CHARLTON FINE SANDY LOAM	B
CtC	CHARLTON-CHATFIELD COMPLEX	B
CuD	CHATFILED-HOLLIS ROCK OUTCROP	B / C
HrF	HOLLIS ROCK OUTCROP	C
Sh	SUN LOAM	D

LEGEND:

- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED 10' CONTOUR
- PROPOSED DRILLED WELL
- SOIL DEEP TEST PIT
- PERCOLATION TEST
- PROPOSED HOUSE AND DRIVEWAY
- PROPOSED POOL
- PROPOSED SEPTIC AREA
- PROPOSED EDGE OF ROAD
- PROPOSED LOT LINE
- PROPOSED BUILDING SETBACK
- 100' WETLAND SETBACK
- EXISTING STONEWALL
- PROPOSED CATCH BASIN
- PROPOSED DRAIN MANHOLE
- PROPOSED DRAINAGE PIPE
- PROPOSED DISTURBANCE AREA

STEEP SLOPES LEGEND:

- SLOPE 15-25 %
- SLOPE 25% +

SITE INFORMATION:

1. PARCEL I.D. # 46.-3-38.1
2. OWNER OF RECORD: ROTH NURSERY
   49 HOBAN AVE
   PORT CHESTER, NY 10573
3. TOTAL SITE AREA: 37.77 Ac ±
4. ZONING DISTRICT: R-160
5. SOURCE OF SOILS MAPPING: USDA - NRCS WEB SOIL SURVEY
6. SOURCE OF TOPOGRAPHY & SURVEY INFORMATION:
   "TOPOGRAPHIC & SURVEY PROPERTY OF ROTH NURSERY, INC"
   BY: TERRY BERGENDORFF COLLINS, LS
   52 STARR RIDGE ROAD
   BREWSTER, NY
   DATED: NOVEMBER 7, 2016

REVISIONS: DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

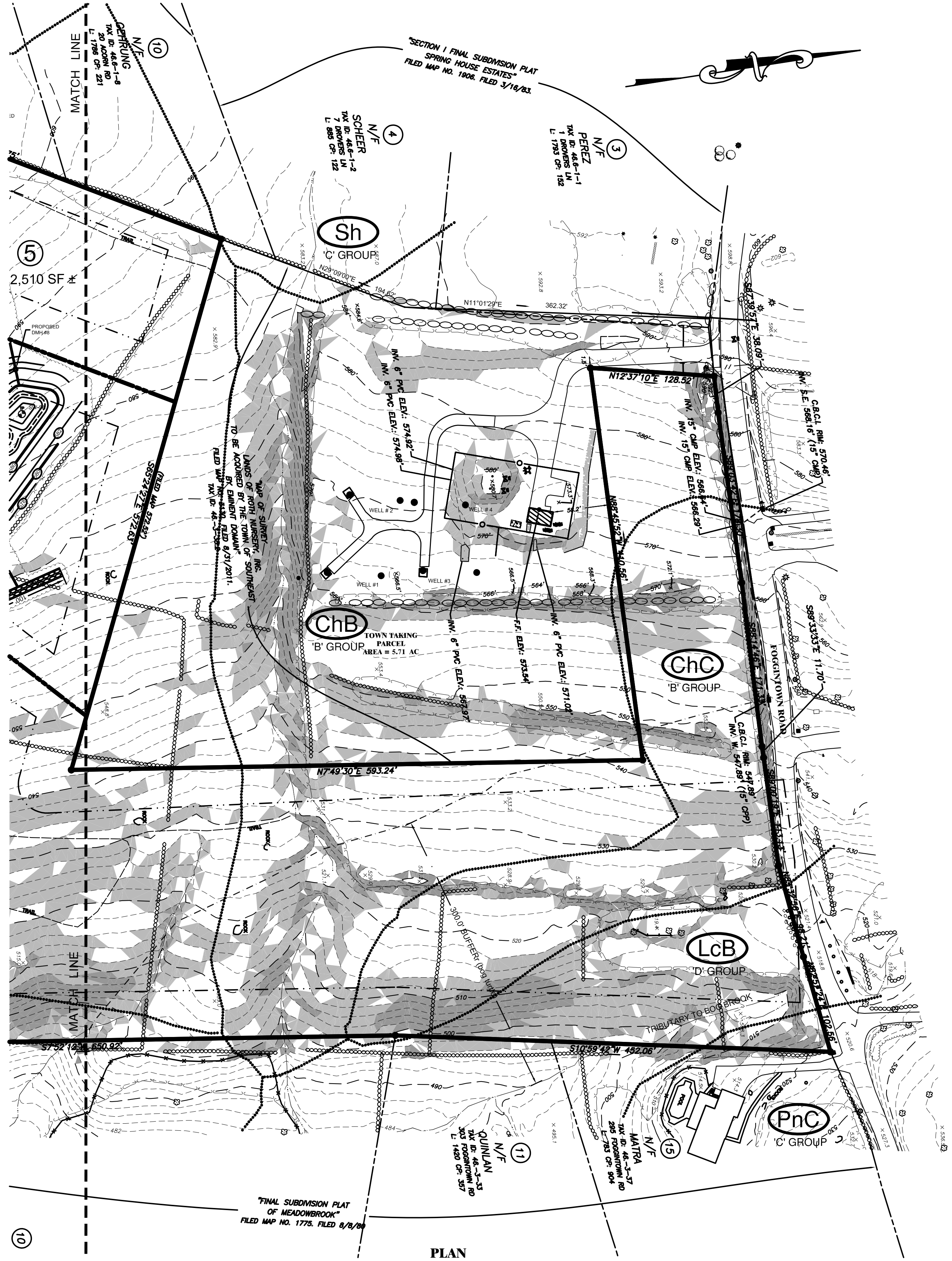
STATE OF NEW YORK · JOSEPH J. BUSCHYNSKI · LICENSED PROFESSIONAL ENGINEER · No. 055924
JOSEPH BUSCHYNSKI P.E.

SUBDIVISION PLAN

ROTH
291 FOGGINTOWN ROAD,
TOWN OF SOUTHEAST, PUTNAM COUNTY, NY

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

DATE:	3-16-18
SCALE:	1" = 50'
FILE:	9G
DSGN / CHK:	RAL
DRN. BY:	RAL
SHT NO.	1 OF 4
DWG NO.	SP-1



PLAN

GRAPHIC SCALE

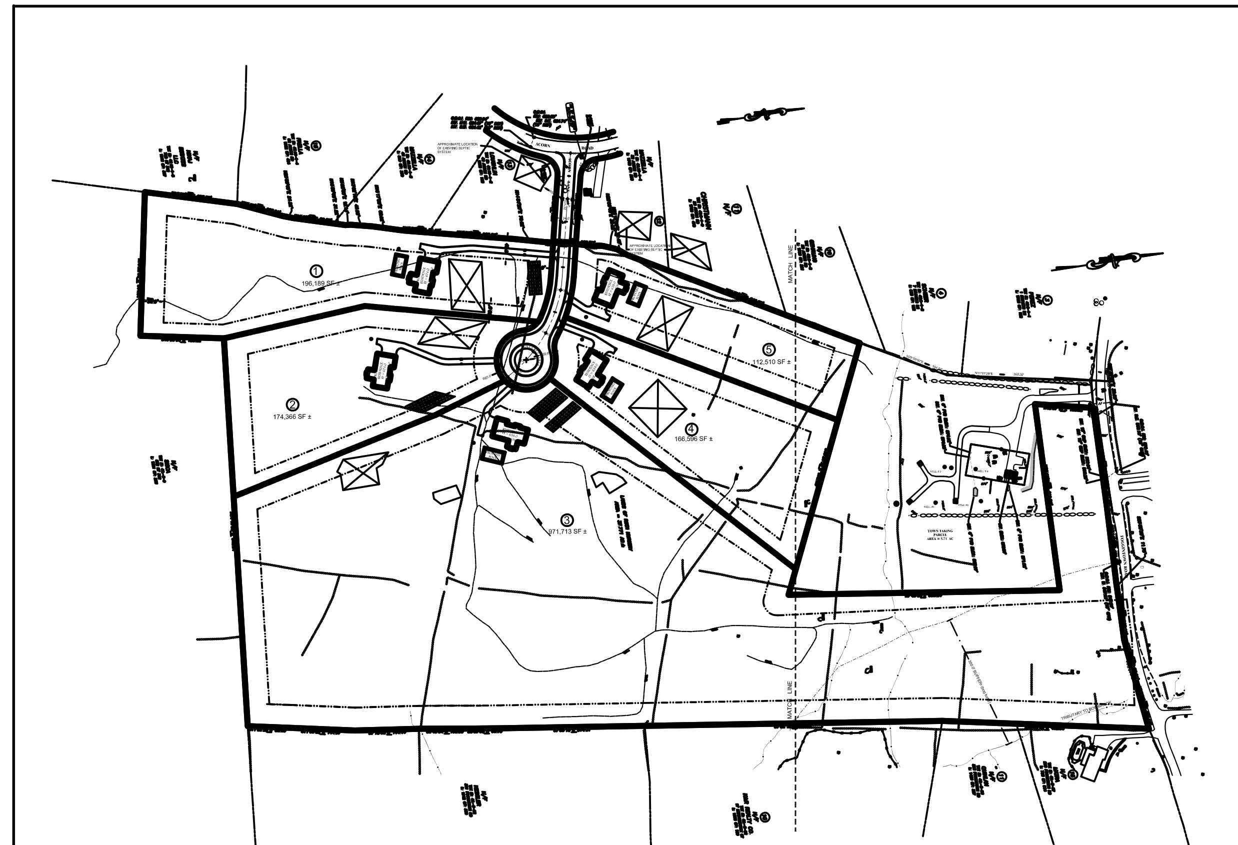
0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

STEEP SLOPES LEGEND:

SLOPE 15-25 %

SLOPE 25% +



INSET MAP
SCALE 1"=150'

LEGEND:

- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED 10' CONTOUR
- PROPOSED DRILLED WELL
- SOIL DEEP TEST PIT
- PERCOLATION TEST
- PROPOSED HOUSE AND DRIVEWAY
- PROPOSED POOL
- PROPOSED SEPTIC AREA
- PROPOSED EDGE OF ROAD
- PROPOSED LOT LINE
- PROPOSED BUILDING SETBACK
- 100' WETLAND SETBACK
- EXISTING STONEWALL
- PROPOSED CATCH BASIN
- PROPOSED DRAIN MANHOLE
- PROPOSED DRAINAGE PIPE
- PROPOSED DISTURBANCE AREA

REVISIONS: DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

STATE OF NEW YORK ★ JOSEPH J. BUSCHYNSKI ★ LICENSED PROFESSIONAL ENGINEER No. 055924

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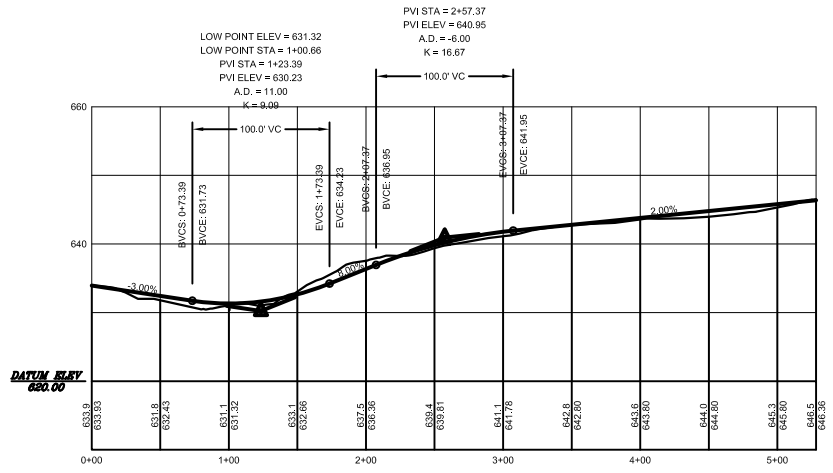
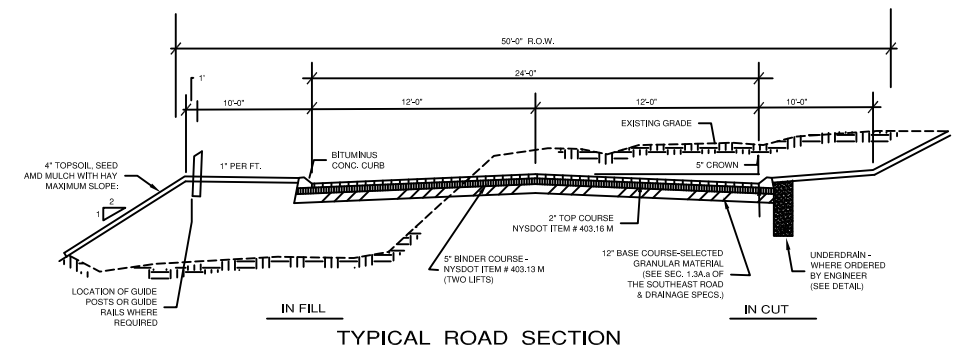
DATE:	3-16-18
SCALE:	1" = 50'
FILE:	9G
DSGN / CHK:	RAL
DRN. BY:	RAL
SHT NO.	2 OF 4
DWG NO.	SP-2



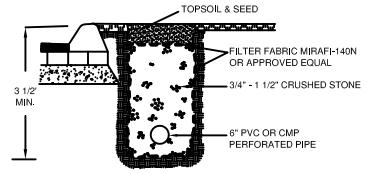


TYPICAL ROAD SECTION

N.T.S.

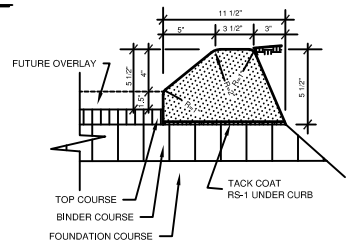
NOTES:

1. ALL ITEMS MUST CONFORM TO N.Y.DS.D.O.T. SPECIFICATIONS.



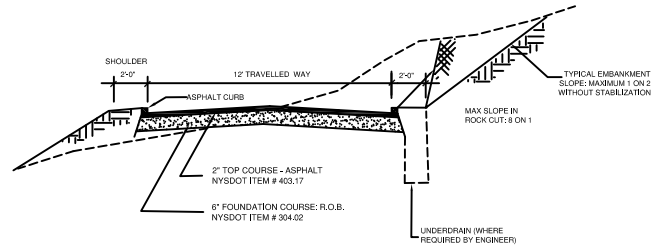
UNDERDRAIN

N.T.S.



ASPHALT CURB DETAIL

N.T.S.



TYPICAL DRIVEWAY

N.T.S.

REVISIONS	DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

STATE OF NEW YORK · JOSEPH J. BUSCHINI · LICENSED PROFESSIONAL ENGINEER · NO. 055283

JOSEPH BUSCHINI P.E.

ROAD PROFILE AND DETAILS

ROTH
291 FOGGINTOWN ROAD,
TOWN OF SOUTHEAST, PUTNAM COUNTY, NY

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

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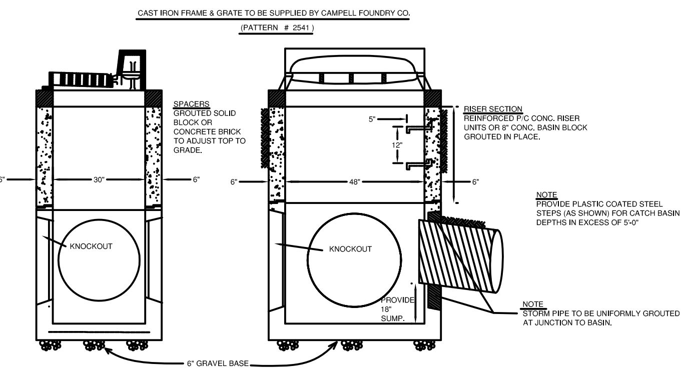
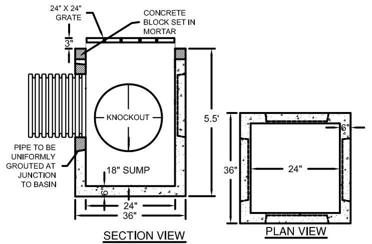
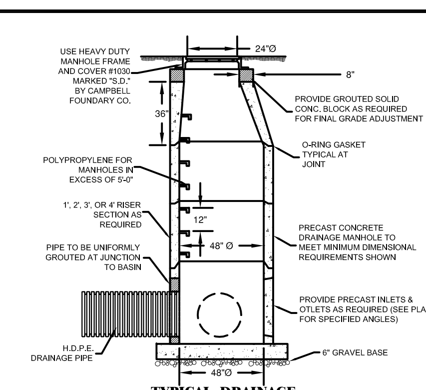
FILE:	9G
DSGN / CHK:	RAL
DRN. BY:	RAL
SHT NO.	3 OF 4
DWG NO.	**RP**



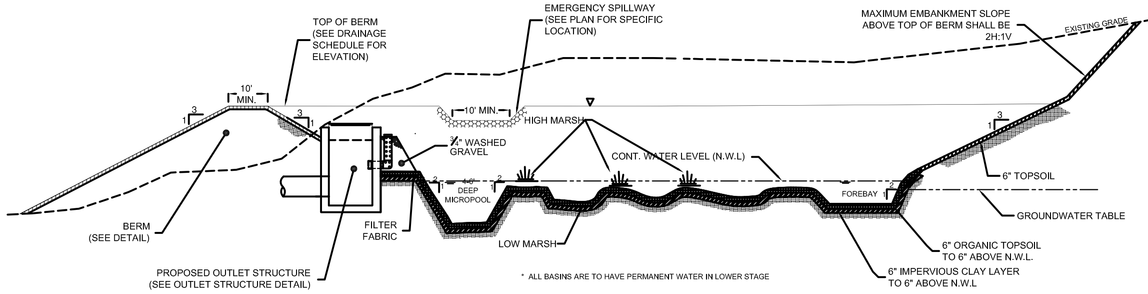
TYPICAL CATCH BASIN
N.T.S.



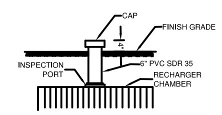
2' x 2' CATCH BASIN DETAIL
N.T.S.
(RESIDENTIAL DRAIN AS MANUFACTURED BY CONNECTICUT PRECAST CO. H-20 LOADING REQUIRED)



TYPICAL DRAINAGE MANHOLE
N.T.S.
HS-20-44 LOADING DESIGN REQUIRED

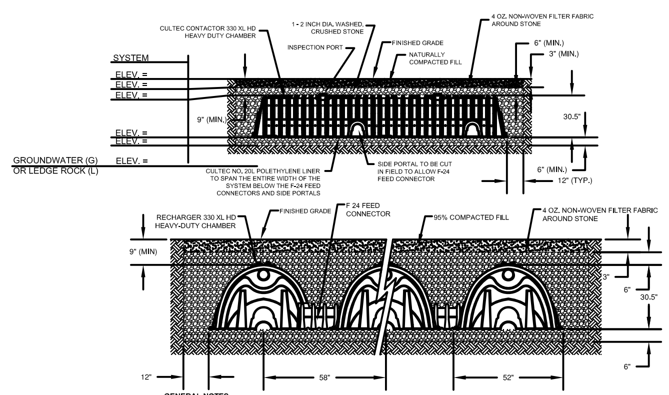


SECTION: TYPICAL POCKET WETLAND
N.T.S.



INSPECTION PORT
NTS

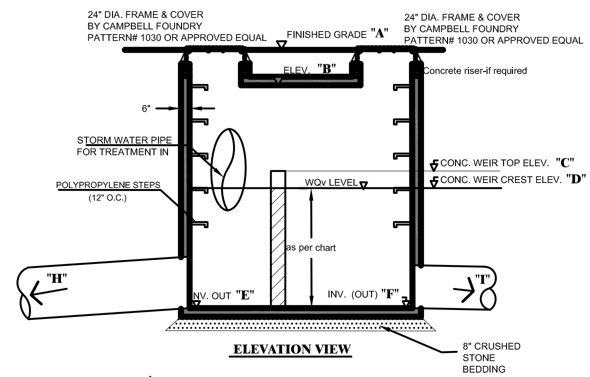
NOTE
AN INSPECTION PORT SHALL BE INSTALLED ON THE FIRST (INLET) CHAMBER OF EACH ROW



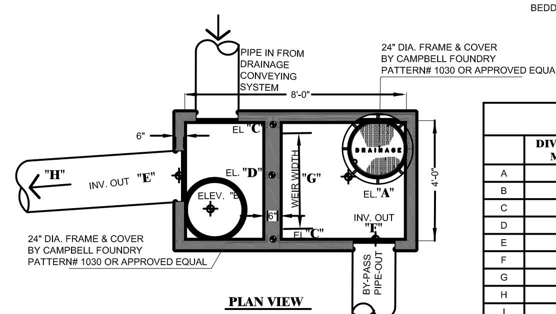
GENERAL NOTES
RECHARGER 330 XL HD BY CULTEC, INC. OF BROOKFIELD, CT.
STORAGE PROVIDED = 11.32 CF/FT PER DESIGN UNIT.
INSTALLED LENGTH = 7.00'
REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
USE RECHARGER 330 XL HD HEAVY DUTY FOR TRAFFIC AND/OR H20 APPLICATIONS.

ALL RECHARGER 330 XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
ALL RECHARGER 330 XL HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

CULTEC RECHARGER 330 XL HD
N.T.S.



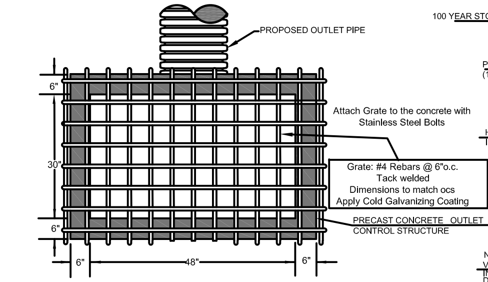
ELEVATION VIEW



PLAN VIEW

DIVERSION STRUCTURE
NTS

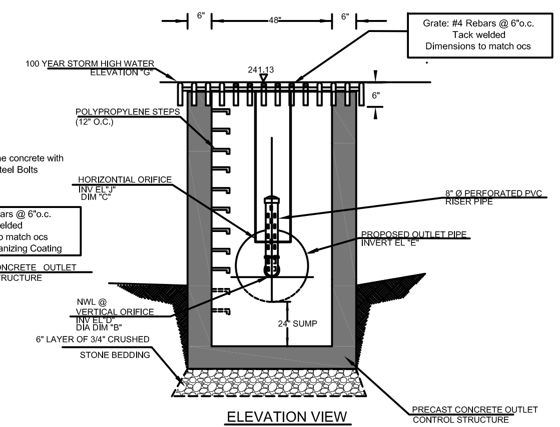
DIVERSION STRUCTURE CHART				
	DIVERSION MH #1	DIVERSION MH #2	DIVERSION MH #3	DIVERSION MH #4
A				
B				
C				
D				
E				
F				
G				
H				
I				



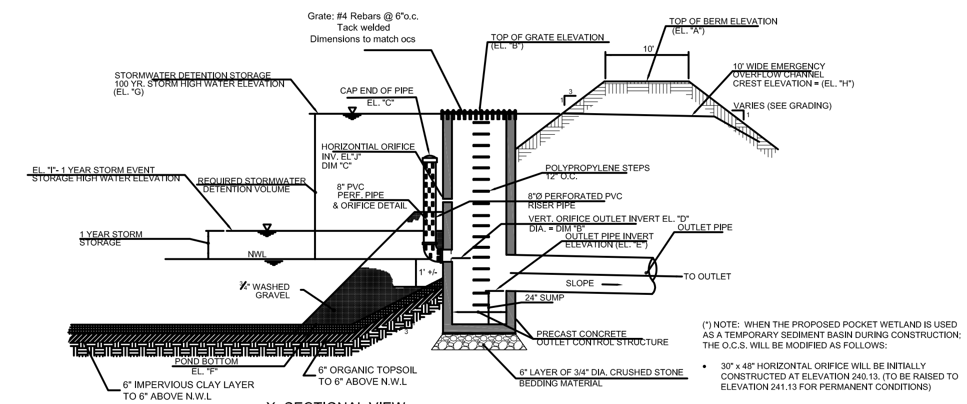
PLAN VIEW

OUTLET CONTROL STRUCTURE AND GRATE DETAIL
N.T.S.

A-A SECTION
N.T.S.



ELEVATION VIEW
N.T.S.



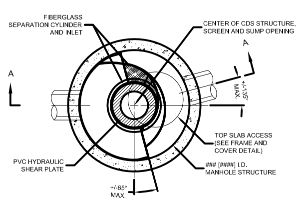
X- SECTIONAL VIEW
N.T.S.

(*) NOTE: WHEN THE PROPOSED POCKET WETLAND IS USED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION; THE O.C.S. WILL BE MODIFIED AS FOLLOWS:

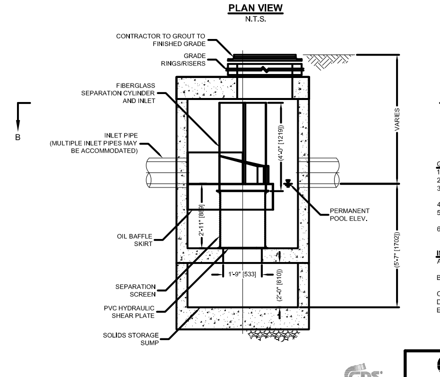
- 30" x 48" HORIZONTAL ORIFICE WILL BE INITIALLY CONSTRUCTED AT ELEVATION 240.13. (TO BE RAISED TO ELEVATION 241.13 FOR PERMANENT CONDITIONS)
- THERE IS NO 12" WIDE WEIR @ ELEVATION 236.75 DURING TEMPORARY CONDITIONS

STORMWATER TREATMENT BASIN	FUNCTION	ELEVATIONS										DIMENSIONS		OUTLET PIPE		
		EL."A" T.O.B.	EL."B" GRATE *	EL."C" CAP	EL."D" ORIFICE *	EL."E" CULVERT	EL."F" BOTTOM	EL."G" 100-YR	EL."H" EMG. SPWY.	EL."I" WQV	EL."J"	DIM."B" ORIFICE (Ø INCH)	DIM."C" WEIR	DIA./MATERIAL (INCH)	SLOPE (FT./FT.)	LENGTH (LF)
POCKET WETLAND	DETENTION AND STORMWATER QUALITY															

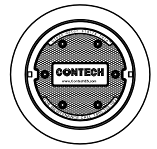
POCKET WETLAND OUTLET CONTROL CONFIGURATION
N.T.S.



PLAN VIEW
N.T.S.



SECTION A-A
N.T.S.



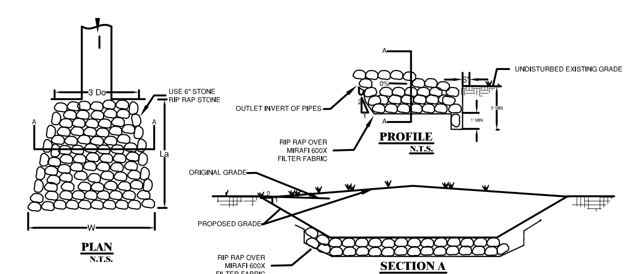
CDS2025-5-C DESIGN NOTES
CDS2025-5-C RATED TREATMENT CAPACITY IS 1.6 CFS, [45.3 L/s], OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY IS 14.0 CFS [396 L/s]. IF THE SITE CONDITIONS EXCEED 14.0 CFS [396 L/s], AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.
THE STANDARD CDS2025-5-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.
CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS

SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID			*
WATER QUALITY FLOW RATE (CFS OR L/s)			*
PEAK FLOW RATE (CFS OR L/s)			*
RETURN PERIOD OF PEAK FLOW (YRS)			*
SCREEN APERTURE (2400 OR 4700)			*
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	*	*	*
INLET PIPE 2	*	*	*
OUTLET PIPE	*	*	*
RIM ELEVATION			*
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
		*	*
NOTES/SPECIAL REQUIREMENTS:			
* PER ENGINEER OF RECORD			

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

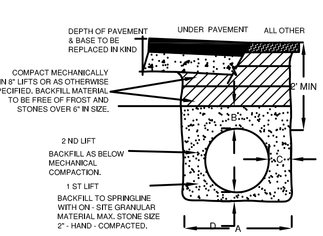
CONTECH STORMWATER SOLUTIONS
CDS2025
PRECAST CONCRETE WATER QUALITY SYSTEM
STANDARD DETAIL



RIP-RAP OUTLET PROTECTION SIZING							
STRUCTURE	PIPE DIA (INCH)	PIPE LENGTH (LF)	PIPE SLOPE (%)	DISCHARGE Q (*)(CFS)	RIP-RAP-DIA D-50 (INCHES)	WIDTH '3Do' (FT)	LENGTH 'La' (FT)	WIDTH 'W' (FT)
ROP #								

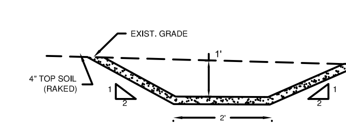
DESIGN IS BASED ON "NYS STANDARDS & SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" NOV. 2016
(*) BASED ON 100 YEAR STORM PEAK FLOWS.

ROCK OUTLET PROTECTION (R.O.P.) DETAIL
N.T.S



PIPE DIA.	A	B	C	D
15"	34"	12"	8"	6"
18"	40"	12"	9.5"	6"
24"	48"	12"	10"	6"
30"	66"	12"	15.5"	6"

DRAINAGE PIPE INSTALLATION
N.T.S.



SEED MIXTURE	RATE / 1000 SF
BIRDSFOOT TREFOIL	.2lb
TALL FESCUE	.45 lb
PERRENNIAL RYEGRASS	.1 lb
MULCH: HAY OR STRAW	2 BALES

GRASS LINED SWALE
N.T.S.

REVISIONS: DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

STATE OF NEW YORK — JOSEPH J. BUSCHYNSKI — No. 055924 — LICENSED PROFESSIONAL ENGINEER
JOSEPH BUSCHYNSKI P.E.

DRAINAGE DETAILS

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SOMERS, NEW YORK 10589
TEL. 914 277 5805

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DRN. BY:	NT
SHT NO.	4 OF 4
DWG NO.	D