

SOURCE: BREWSTER QUAD MAP
LOCATION MAP
 SCALE: 1"=2000'

AMENDED SITE PLAN

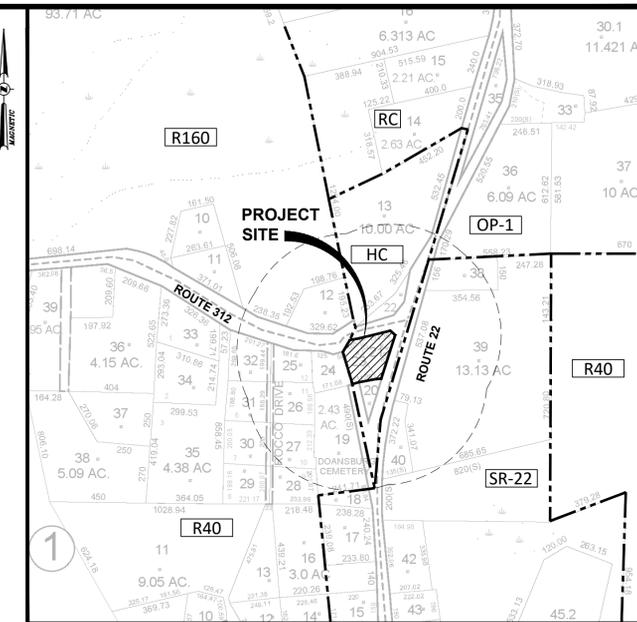
PREPARED FOR

BATISTA SOUTHEAST DUNKIN'

LOCATED AT

1617 N.Y.S. ROUTE 22

TOWN OF SOUTHEAST, PUTNAM COUNTY, NY



SOURCE: TOWN OF SOUTHEAST TAXMAP 46, & ZONING MAP (2010)
VICINITY MAP
 SCALE: 1"=400'

DECEMBER 21, 2018

LAST REVISED: FEBRUARY 4, 2019

RECORD OWNER / APPLICANT:

ECB REALTY, LLC
 28 EAGLES RD
 DANBURY, CT 06810

SITE CIVIL ENGINEER AND LANDSCAPE ARCHITECT:

CHAZEN ENGINEERING, LAND SURVEYING, &
 LANDSCAPE ARCHITECTURE CO., D.P.C.
 21 FOX STREET, POUGHKEEPSIE, NY 12601
 PHONE: (845) 454-3980

TAX MAP INFORMATION:

TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK
 SECTION 46, BLOCK 1, LOT 21

MAP REFERENCE:

MAP ENTITLED, "EXISTING CONDITIONS PLAN" DATED DECEMBER 21,
 2018 AND PREPARED BY CHAZEN ENGINEERING, LAND SURVEYING,
 & LANDSCAPE ARCHITECTURE CO., D.P.C.

SITE DATA:

ZONE: HC - HIGHWAY COMMERCIAL DISTRICT
 SCHOOL DISTRICT: BREWSTER

AREA:

TOTAL PROJECT ACREAGE : 0.92 ACRES

INDEX OF DRAWINGS

PAGE NO.	REV	SHEET NO.	DATE	DESCRIPTION
1	1	G001	02/04/19	TITLE SHEET
2	0	SV1	12/21/18	EXISTING CONDITIONS PLAN
3	1	C130	02/04/19	SITE PLAN
4	1	C140	02/04/19	GRADING & DRAINAGE PLAN
5	1	C150	02/04/19	EROSION & SEDIMENT CONTROL PLAN
6	1	C151	02/04/19	EROSION AND SEDIMENT CONTROL PLAN PRIOR TO CONSTRUCTION
7	1	C160	02/04/19	UTILITY PLAN
8	1	C180	02/04/19	LANDSCAPE & LIGHTING PLAN
9	1	C190	02/04/19	TRUCK MANEUVERING PLAN
10	0	C530	12/21/18	SITE DETAILS
11	0	C540	12/21/18	STORM SEWER DETAILS
12	0	C550	12/21/18	EROSION & SEDIMENT CONTROL DETAILS
13	0	C560	12/21/18	WATER SYSTEM DETAILS
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15	0	C580	12/21/18	LANDSCAPE & LIGHTING DETAILS

SITE PLAN NOTES:

- ALL ARCHITECTURE IS SUBJECT TO PLANNING BOARD REVIEW.
- A NYS DOT HIGHWAY WORK PERMIT IS REQUIRED FOR ALL WORK WITHIN THE NYS DOT RIGHT-OF-WAY, AND SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF WORK.
- NO BLASTING IS TO BE PERFORMED ON-SITE.

ZONING DISTRICT: HC USE: RESTAURANT, FAST CASUAL				
REGULATION	REQUIRED	EXISTING	PROPOSED	AMENDED PROPOSED
LOT AREA (SQ FT)	40,000	39,880 ¹	39,880 ¹	39,880 ¹
FRONTAGE ROUTE 22 (FT)	150	206.60	206.60	206.60
FRONTAGE ROUTE 312 (FT)	150	263.99	263.99	263.99
LOT WIDTH (FT)	150	236.27	236.27	236.27
LOT DEPTH (FT)	150	132.91	132.91	132.91
YARD SETBACKS				
FRONT (FT)	50	59.4	59.7/79.2	80.1/69.0
SIDE (FT)	35	59.5	48.3	50.1
REAR (FT)	35	84.4	41	44.9
PARKING				
FRONT (FT)	25	7.1 ¹	25	36.3/33.8
SIDE (FT)	15	18.0	15	61.6
REAR (FT)	15	70.8	47	86.4
COVERAGE				
MAX LOT %	45	49.7 ¹	59.9 ²	42.7
MAX BUILDING %	15	3.6	6.9	6.1
FLOOR AREA RATIO	0.3	0.04	0.07	0.06
OPEN SPACE %	55	50.3 ¹	40.1 ²	57.3
BUILDING HEIGHT				
STORIES	2	1	1	1
HEIGHT (FT)	35	<35	<35	<35
PARKING REQUIREMENTS				
	SEE BELOW			

BULK TABLE NOTES:
¹ EXISTING NON CONFORMANCE

PARKING CALCULATIONS (RESTAURANT):

RETAIL 1 SPACE PER 50 S.F. OF PATRON FLOOR AREA

PATRON FLOOR AREA: 850 S.F.

REQUIRED: 850 S.F. / 50 = 17 SPACES

PROPOSED: 17 SPACES

OWNER/APPLICANT SIGNATURE

THE UNDERSIGNED APPLICANT / OWNER OF THE PROPERTY SHOWN HEREON, STATE THAT THEY ARE FAMILIAR WITH THIS MAP, ITS NOTES AND ITS CONTENTS, AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON.

THE APPLICANT AND OWNER UNDERSTAND THEIR OBLIGATION TO THE TOWN TO KEEP THIS SITE AS PER SITE PLAN APPROVAL BY THE TOWN PLANNING BOARD UNTIL A NEW OR REVISED SITE PLAN IS APPROVED FOR THE SITE.

OWNER / APPLICANT _____ DATE _____

TOWN OF SOUTHEAST PLANNING BOARD

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE TOWN OF SOUTHEAST, NEW YORK, ON THE _____ SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION. ANY CHANGES, ERASURES, MODIFICATIONS OR REVISIONS OF THIS SITE PLAN AS APPROVED, SHALL VOID THIS APPROVAL.

SIGNED FOR THE PLANNING BOARD BY: _____
 CHAIRMAN _____ DATE _____



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rev.	date	description
1	02/04/19	REVISED PER PLANNING BOARD COMMENTS

BATISTA SOUTHEAST DUNKIN'

TITLE SHEET

TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK



designed	checked
RJC	CPL
date	scale
12/21/18	1"=20'
project no.	
81625.00	
sheet no.	
G001	

ISSUED FOR SITE PLAN APPROVAL

- LEGEND:**
- PROPERTY LINE NO PHYSICAL BOUNDS
 - ADJACENT PROPERTY LINE
 - 110 — EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - X 200.3 — EXISTING SPOT GRADE
 - CONC. CURB
 - TOWN WETLANDS LINE
 - EXISTING CURB/GUTTER
 - EXISTING GUIDERAIL
 - EXISTING FENCE
 - EXISTING STONE WALL
 - EXISTING SILT FENCE
 - EXISTING OVERHEAD WIRES
 - G — EXISTING GAS LINE MARKOUT
 - C — EXISTING CABLE LINE MARKOUT
 - S — EXISTING UNDERGROUND SEWER LINE
 - ST — EXISTING UNDERGROUND STORM LINE
 - EXISTING SIGN
 - EXISTING SIGN
 - EXISTING MILE MARKER
 - EXISTING MAILBOX
 - EXISTING FENCE POST
 - EXISTING POST
 - * — EXISTING SHRUB
 - EXISTING MONUMENT
 - EXISTING CAPPED IRON ROD
 - EXISTING CAPPED IRON ROD SET
 - MAGNETIC NAIL SET
 - CROSSCUT SET
 - EXISTING CROSSCUT FOUND
 - EXISTING BENCHMARK
 - EXISTING SANITARY MANHOLE
 - EXISTING CLEANOUT
 - EXISTING DRAINAGE MANHOLE
 - EXISTING CATCH BASIN
 - EXISTING END SECTION
 - EXISTING ELECTRIC HAND HOLE
 - EXISTING ELECTRIC METER
 - CONTINUED...

WETLANDS NOTE:
 WETLANDS SHOWN HEREON ARE APPROXIMATE AS SHOWN ON A MAP ENTITLED "OVERALL SITE PLAN, WASTEWATER TREATMENT PLANT BUILDING, BREWSTER TOWNE CENTRE" SHEET G-3 BY INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C. DATED 3-29-13.

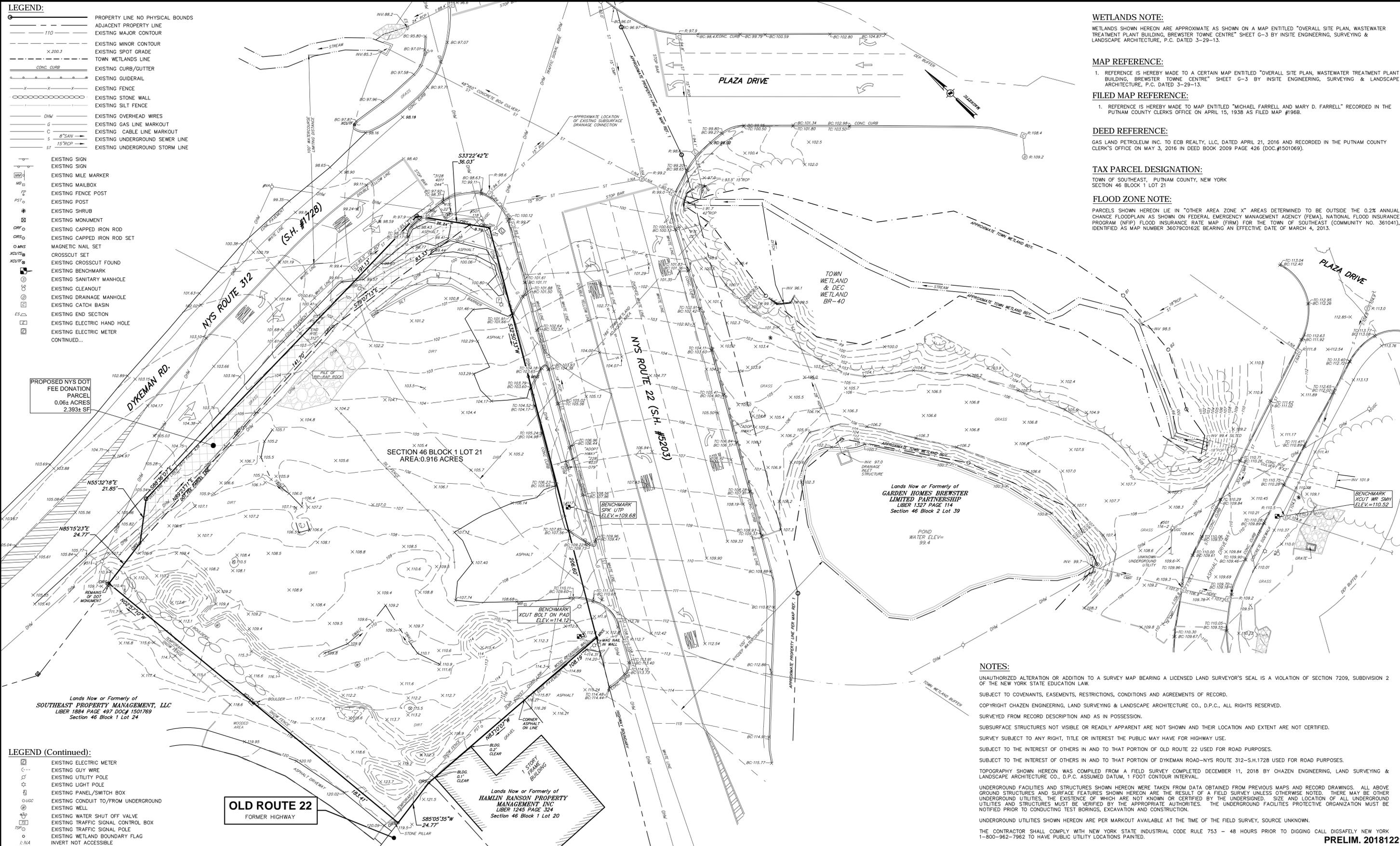
MAP REFERENCE:
 1. REFERENCE IS HEREBY MADE TO A CERTAIN MAP ENTITLED "OVERALL SITE PLAN, WASTEWATER TREATMENT PLANT BUILDING, BREWSTER TOWNE CENTRE" SHEET G-3 BY INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C. DATED 3-29-13.

FILED MAP REFERENCE:
 1. REFERENCE IS HEREBY MADE TO MAP ENTITLED "MICHAEL FARRELL AND MARY D. FARRELL" RECORDED IN THE PUTNAM COUNTY CLERK'S OFFICE ON APRIL 15, 1938 AS FILED MAP #1968.

DEED REFERENCE:
 GAS LAND PETROLEUM INC. TO EGB REALTY, LLC, DATED APRIL 21, 2016 AND RECORDED IN THE PUTNAM COUNTY CLERK'S OFFICE ON MAY 3, 2016 IN DEED BOOK 2009 PAGE 426 (DOC.#1501069).

TAX PARCEL DESIGNATION:
 TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK
 SECTION 46 BLOCK 1 LOT 21

FLOOD ZONE NOTE:
 PARCELS SHOWN HEREON LIE IN "OTHER AREA ZONE X" AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF SOUTHEAST (COMMUNITY NO. 361041), IDENTIFIED AS MAP NUMBER 36079C0126E BEARING AN EFFECTIVE DATE OF MARCH 4, 2013.

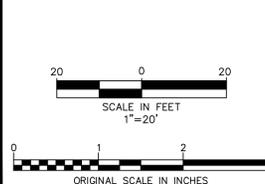


NOTES:
 UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.
 SUBJECT TO COVENANTS, EASEMENTS, RESTRICTIONS, CONDITIONS AND AGREEMENTS OF RECORD.
 COPYRIGHT CHAZEN ENGINEERING, LAND SURVEYING & LANDSCAPE ARCHITECTURE CO., D.P.C., ALL RIGHTS RESERVED.
 SURVEYED FROM RECORD DESCRIPTION AND AS IN POSSESSION.
 SUBSURFACE STRUCTURES NOT VISIBLE OR READILY APPARENT ARE NOT SHOWN AND THEIR LOCATION AND EXTENT ARE NOT CERTIFIED.
 SURVEY SUBJECT TO ANY RIGHT, TITLE OR INTEREST THE PUBLIC MAY HAVE FOR HIGHWAY USE.
 SUBJECT TO THE INTEREST OF OTHERS IN AND TO THAT PORTION OF OLD ROUTE 22 USED FOR ROAD PURPOSES.
 SUBJECT TO THE INTEREST OF OTHERS IN AND TO THAT PORTION OF DYKEMAN ROAD-NYS ROUTE 312-S.H.1728 USED FOR ROAD PURPOSES.
 TOPOGRAPHY SHOWN HEREON WAS COMPILED FROM A FIELD SURVEY COMPLETED DECEMBER 11, 2018 BY CHAZEN ENGINEERING, LAND SURVEYING & LANDSCAPE ARCHITECTURE CO., D.P.C. ASSUMED DATUM, 1 FOOT CONTOUR INTERVAL.
 UNDERGROUND FACILITIES AND STRUCTURES SHOWN HEREON WERE TAKEN FROM DATA OBTAINED FROM PREVIOUS MAPS AND RECORD DRAWINGS. ALL ABOVE GROUND STRUCTURES AND SURFACE FEATURES SHOWN HEREON ARE THE RESULT OF A FIELD SURVEY UNLESS OTHERWISE NOTED. THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN OR CERTIFIED BY THE UNDERSIGNED. SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES. THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION MUST BE NOTIFIED PRIOR TO CONDUCTING TEST BORINGS, EXCAVATION AND CONSTRUCTION.
 UNDERGROUND UTILITIES SHOWN HEREON ARE PER MARKOUT AVAILABLE AT THE TIME OF THE FIELD SURVEY, SOURCE UNKNOWN.
 THE CONTRACTOR SHALL COMPLY WITH NEW YORK STATE INDUSTRIAL CODE RULE 753 - 48 HOURS PRIOR TO DIGGING CALL DIGSAFELY NEW YORK 1-800-962-7962 TO HAVE PUBLIC UTILITY LOCATIONS PAINTED.

- LEGEND (Continued):**
- EXISTING ELECTRIC METER
 - EXISTING GUY WIRE
 - EXISTING UTILITY POLE
 - EXISTING LIGHT POLE
 - EXISTING PANEL/SWITCH BOX
 - EXISTING CONDUIT TO/FROM UNDERGROUND
 - EXISTING WELL
 - EXISTING WATER SHUT OFF VALVE
 - EXISTING TRAFFIC SIGNAL CONTROL BOX
 - EXISTING TRAFFIC SIGNAL POLE
 - EXISTING WETLAND BOUNDARY FLAG
 - INVERT NOT ACCESSIBLE

OLD ROUTE 22
 FORMER HIGHWAY

LANDS NOW OR FORMERLY OF
HAMLIN RANSON PROPERTY
MANAGEMENT INC
LIBER 1245 PAGE 324
Section 46 Block 1 Lot 20



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 I HEREBY CERTIFY THAT THIS SURVEY MAP IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED DECEMBER 11, 2018 AND THAT THIS SURVEY MAP WAS MADE BY ME OR UNDER MY DIRECTION AND CONFORMS WITH THE MINIMUM STANDARD OF PRACTICE ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS.

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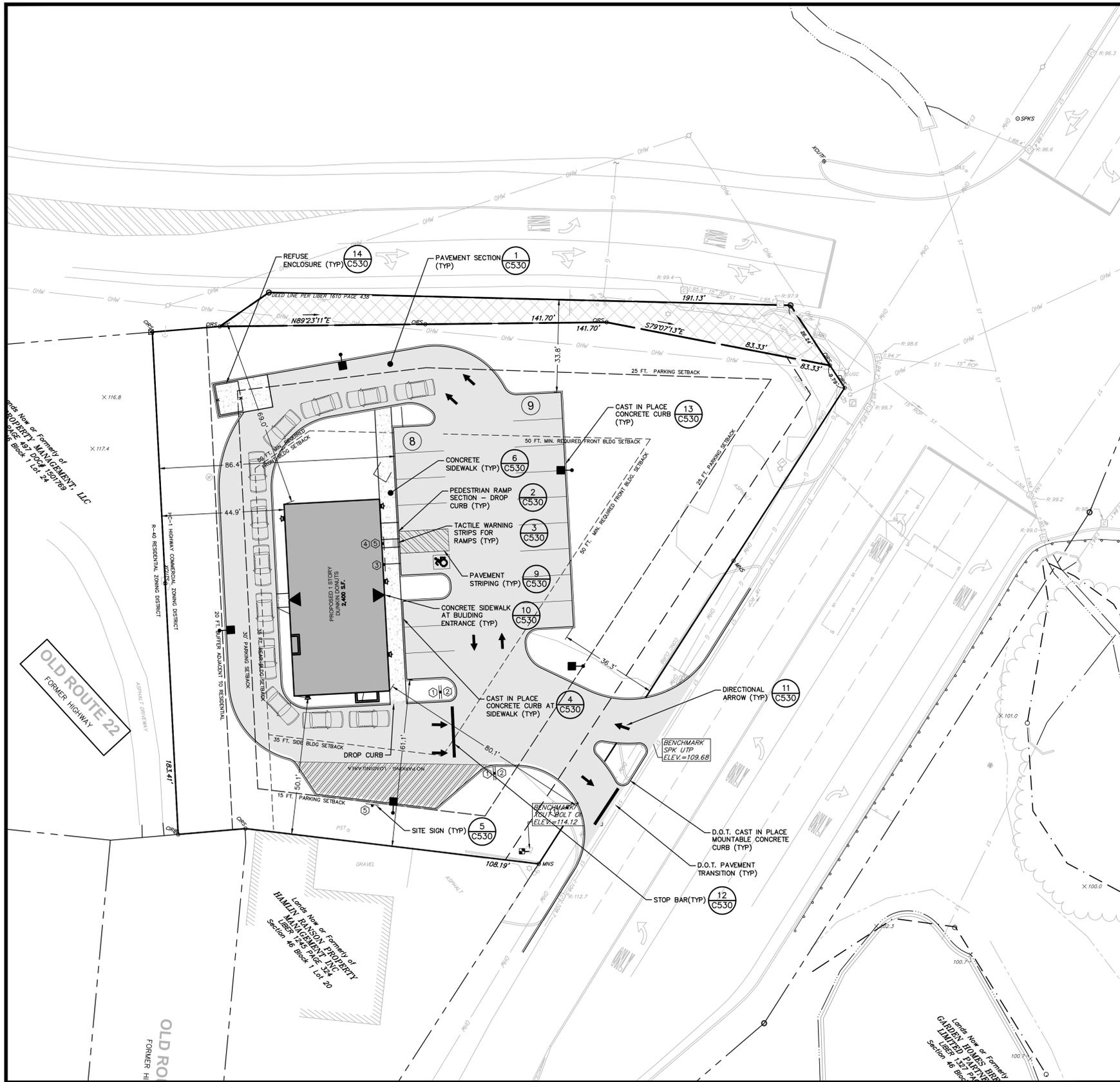
1617 ROUTE 22

MAP OF EXISTING CONDITIONS
PREPARED FOR
STEVEN BATISTA

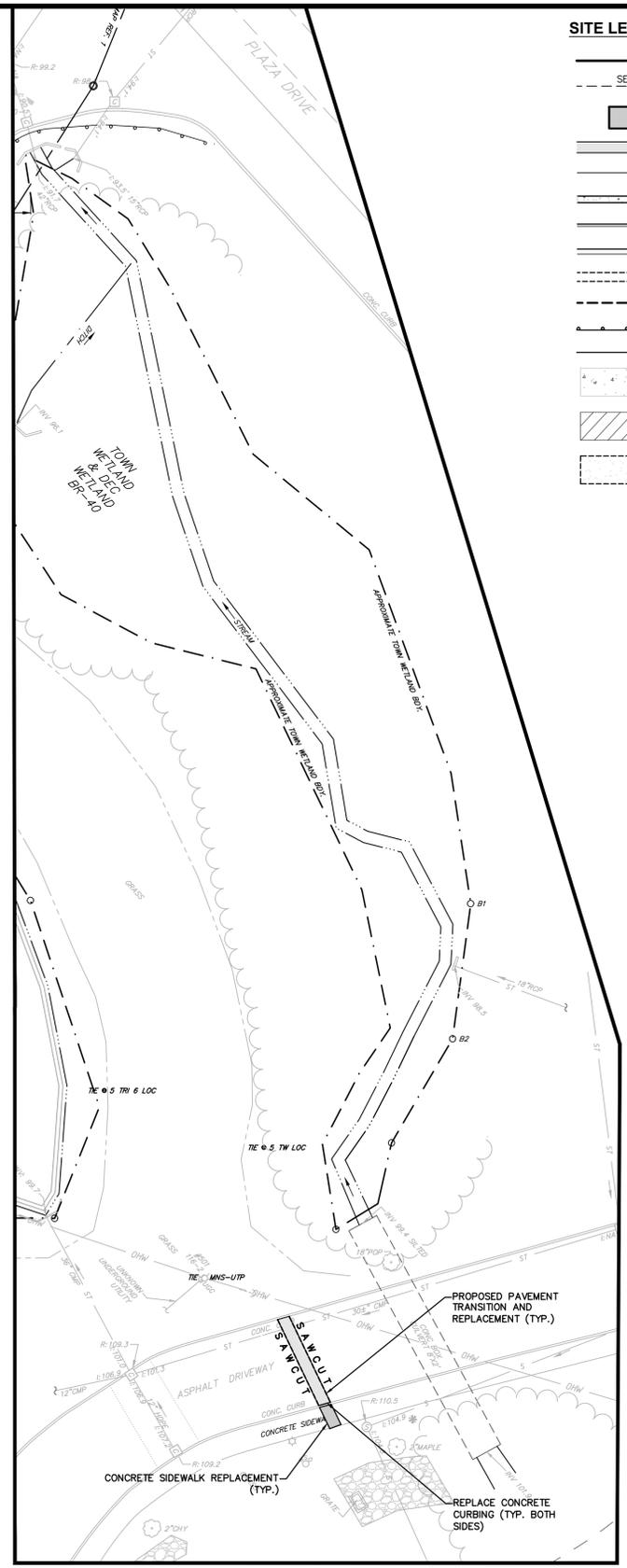
VILLAGE OF BREWSTER, TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK

designed	checked
AJF	JMT
date	scale
12/18/18	1"=20'
project no.	81625.00
sheet no.	SV1

PRELIM. 20181221



1 SITE PLAN
C130 SCALE: 1"=20'



2 OFFSITE BREWSTER TOWN CENTRE WWTP
C130 SCALE: 1"=20'

- SITE LEGEND:**
- PROPERTY LINE
 - SETBACK LINE
 - BUILDING
 - PAVEMENT
 - ROAD CENTER LINE
 - SIDEWALK
 - CURB
 - WING GUTTER
 - GRAVEL DRIVEWAY
 - WORK LIMITS
 - GUIDERAIL
 - CHAIN LINK FENCE
 - CONCRETE SURFACE
 - ROAD LINING & STRIPING
 - GRAVEL SURFACE
 - SIGN
 - 2 POSTED SIGN
 - BOLLARD
 - PARKING COUNT



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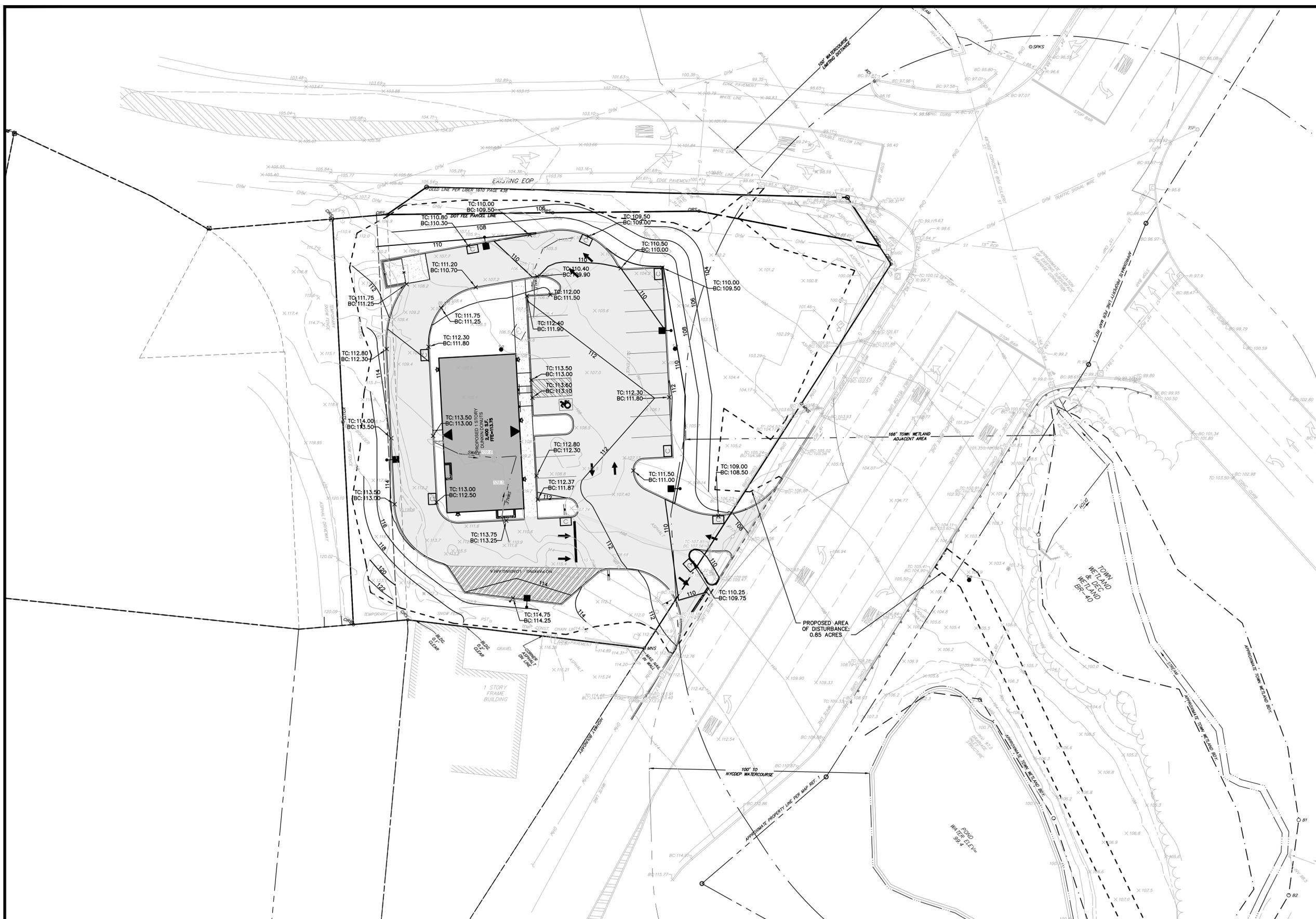
SITE PLAN

TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK

designed	checked
RJC	CPL
date	scale
12/21/18	1"=20'
project no.	
81625.00	
sheet no.	
C130	

GRADING & DRAINAGE LEGEND:

-  PROPERTY LINE
 -  BUILDING
 -  PAVEMENT
 -  10 FT CONTOUR
 -  2 FT CONTOUR
 -  SPOT GRADE
 -  TREE LINE
 -  SHRUB LINE
 -  DRAINAGE SWALE
 -  CATCH BASIN
 -  SOIL BORING
 -  TEST PIT
 -  WORK LIMIT LINE
- ABBREVIATIONS:**
- TF TOP OF FRAME
 - HP HIGH POINT
 - LP LOW POINT
 - TC TOP OF CURB
 - BC BOTTOM OF CURB
 - INV INVERT



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 Land Surveyors
 Planners
 Environmental & Safety Professionals
 Landscape Architects
 Transportation Planners & Engineers

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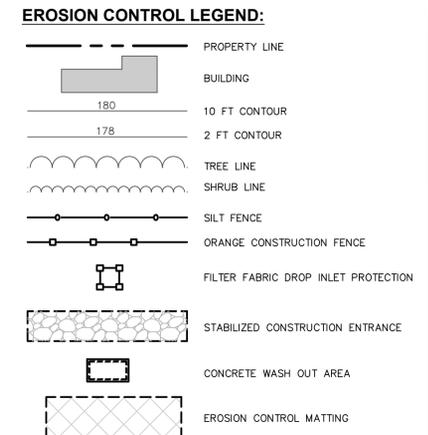
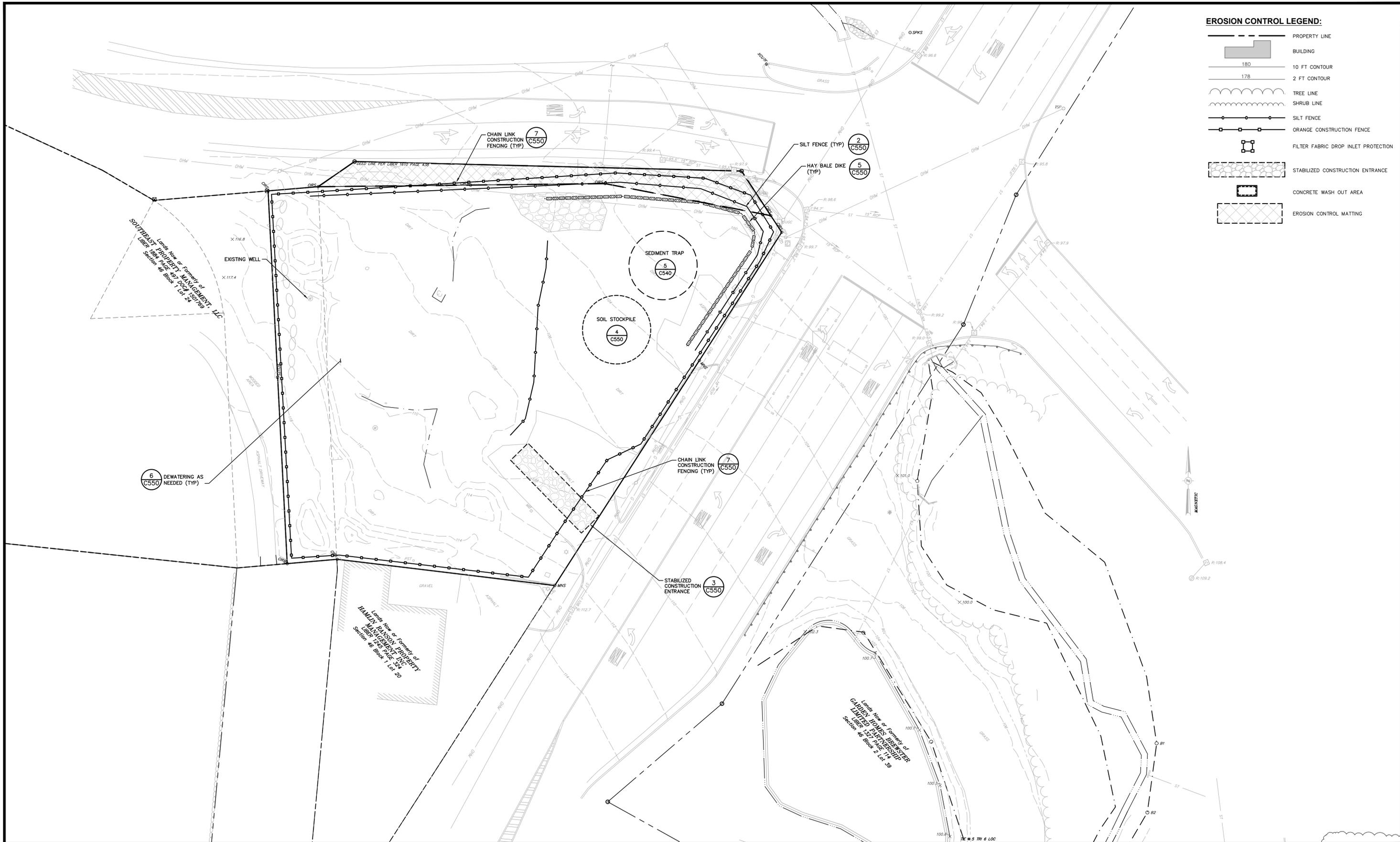
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1	02/04/19	REVISED PER PLANNING BOARD COMMENTS

BATISTA SOUTHEAST DUNKIN'

GRADING & DRAINAGE PLAN

TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK

designed	checked
RJC	CPL
date	scale
12/21/18	1"=20'
project no.	
81625.00	
sheet no.	
	C140



6 DEWATERING AS NEEDED (TYP) (C550)

4 SOIL STOCKPILE (C550)

5 SEDIMENT TRAP (C540)

7 CHAIN LINK CONSTRUCTION FENCING (TYP) (C550)

3 STABILIZED CONSTRUCTION ENTRANCE (C550)

2 SILT FENCE (TYP) (C550)

5 HAY BALE DIKE (TYP) (C550)

7 CHAIN LINK CONSTRUCTION FENCING (TYP) (C550)

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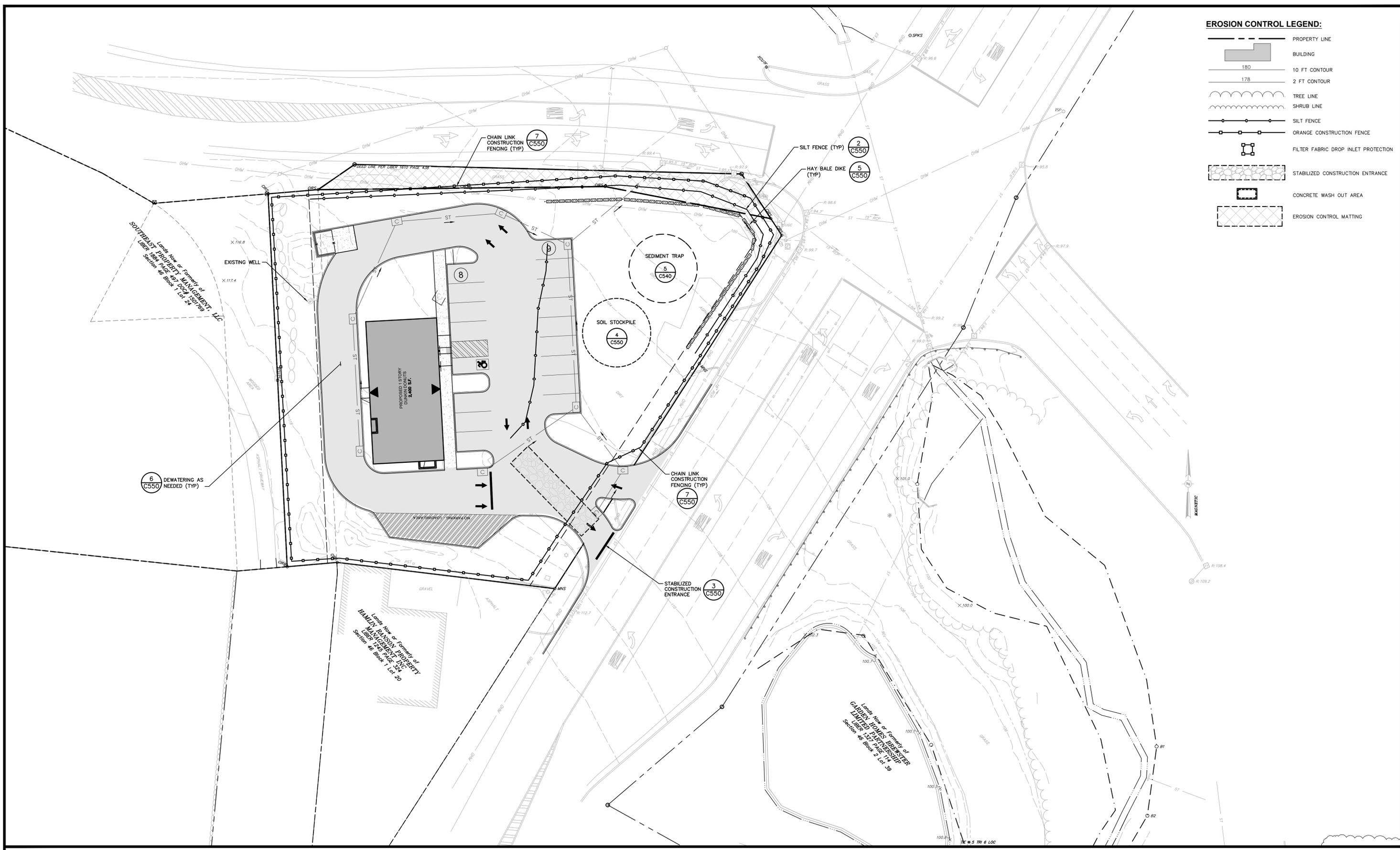
rev.	date	description
1	02/04/19	REVISED PER PLANNING BOARD COMMENTS

BATISTA SOUTHEAST DUNKIN'
**EROSION & SEDIMENT CONTROL PLAN:
 PRIOR TO CONSTRUCTION**
 TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK

designed	checked
RJC	CPL
date	scale
12/21/18	1"=20'
project no.	
81625.00	
sheet no.	
	C150

EROSION CONTROL LEGEND:

-  PROPERTY LINE
-  BUILDING
-  10 FT CONTOUR
-  2 FT CONTOUR
-  TREE LINE
-  SHRUB LINE
-  SILT FENCE
-  ORANGE CONSTRUCTION FENCE
-  FILTER FABRIC DROP INLET PROTECTION
-  STABILIZED CONSTRUCTION ENTRANCE
-  CONCRETE WASH OUT AREA
-  EROSION CONTROL MATTING



Land of or Form of Property of
SOUTHEAST PROPERTY MANAGEMENT, LLC
LIBERTY PLAZA, PAGE 10, LOT 22
SECTION 46, BLOCK 1, LOT 22

Land of or Form of Property of
HAMILTON BUSINESS DEVELOPMENT, LLC
LIBERTY PLAZA, PAGE 12, LOT 20
SECTION 46, BLOCK 1, LOT 20

Land of or Form of Property of
GARDEN HOUSE DEVELOPMENT, LLC
LIBERTY PLAZA, PAGE 14, LOT 36
SECTION 46, BLOCK 2, LOT 36

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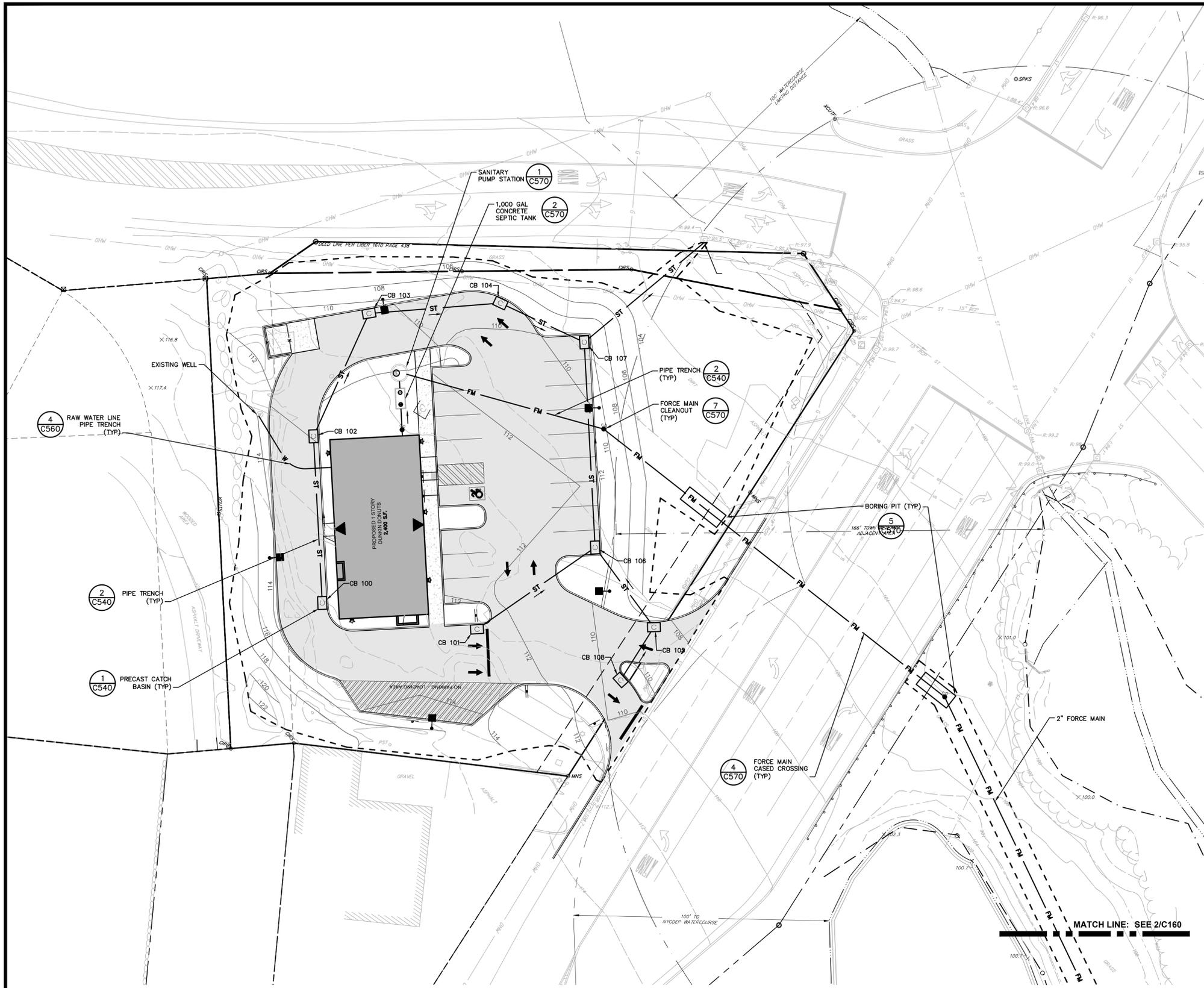
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BATISTA SOUTHEAST DUNKIN'

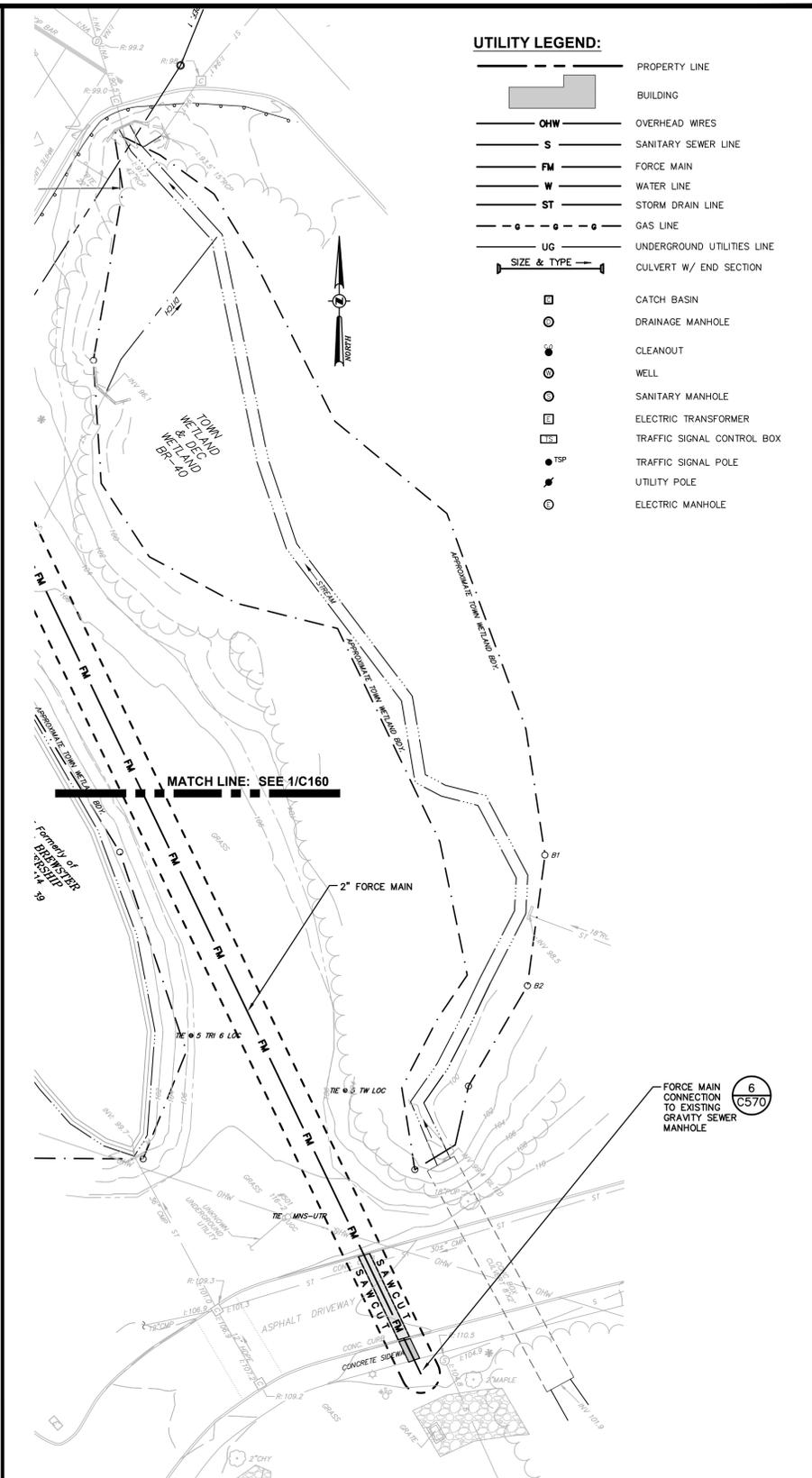
**EROSION & SEDIMENT CONTROL PLAN
DURING CONSTRUCTION**

TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK

designed	checked
RJC	CPL
date	scale
12/21/18	1"=20'
project no.	
81625.00	
sheet no.	
C151	



1 UTILITY PLAN
SCALE: 1"=20'



2 OFF-SITE FORCE MAIN CONNECTION TO EXISTING SEWER
SCALE: 1"=20'

- UTILITY LEGEND:**
- PROPERTY LINE
 - BUILDING
 - OVERHEAD WIRES
 - SANITARY SEWER LINE
 - FORCE MAIN
 - WATER LINE
 - STORM DRAIN LINE
 - GAS LINE
 - UNDERGROUND UTILITIES LINE
 - CULVERT W/ END SECTION
 - CATCH BASIN
 - DRAINAGE MANHOLE
 - CLEANOUT
 - WELL
 - SANITARY MANHOLE
 - ELECTRIC TRANSFORMER
 - TRAFFIC SIGNAL CONTROL BOX
 - TRAFFIC SIGNAL POLE
 - UTILITY POLE
 - ELECTRIC MANHOLE

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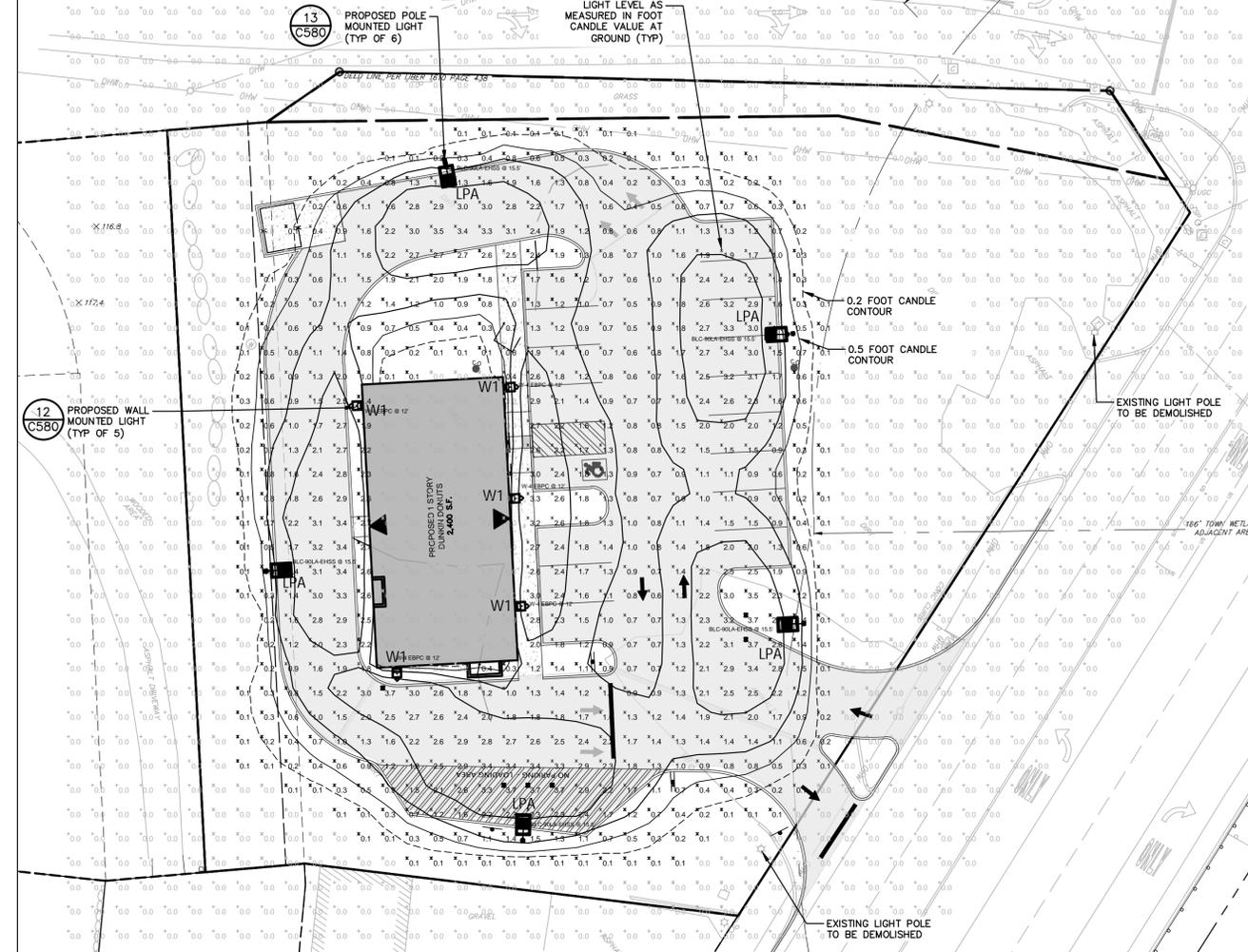
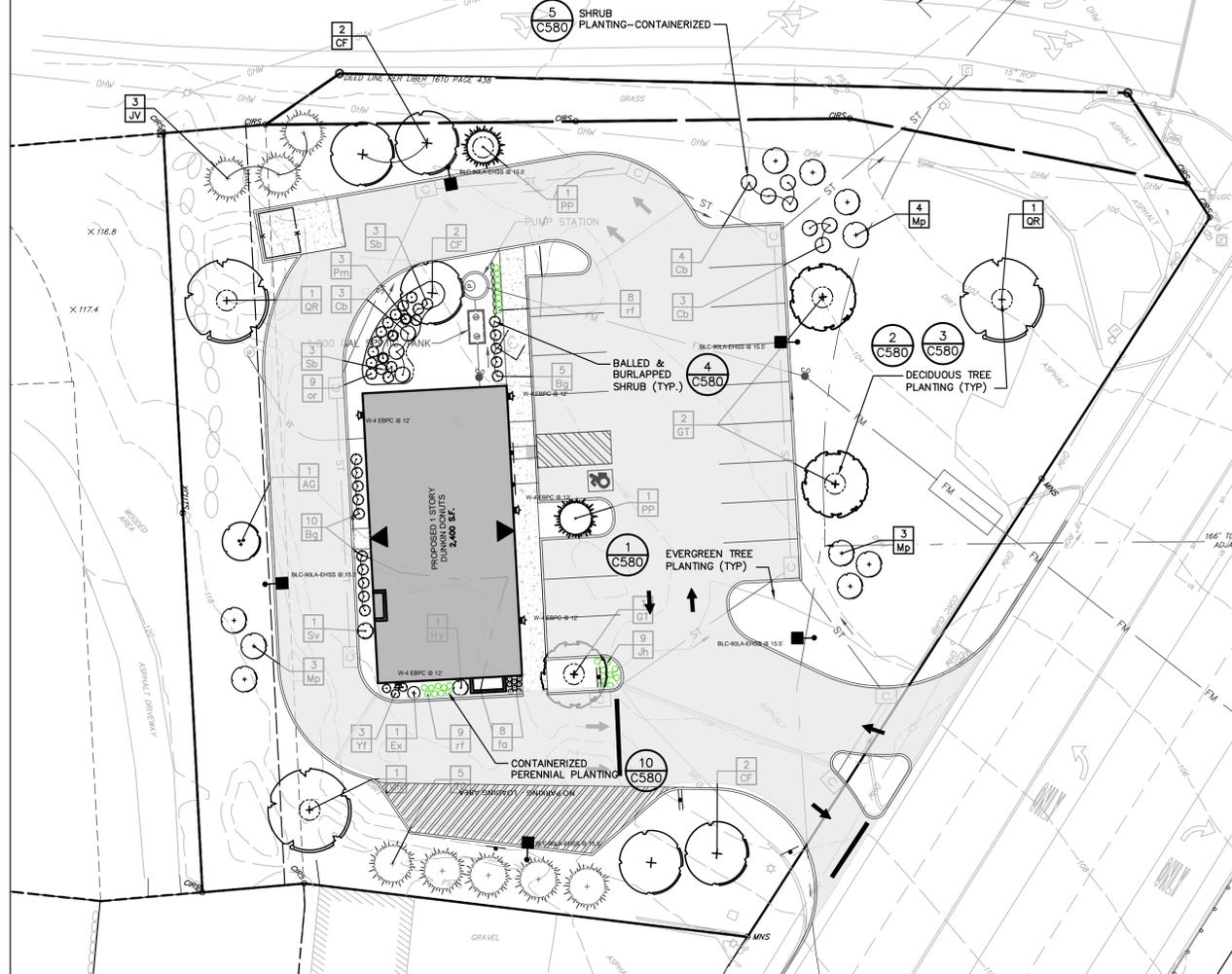
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BATISTA SOUTHEAST DUNKIN'

UTILITY PLAN

TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK

designed	checked
RJC	CPL
date	scale
12/21/18	1"=20'
project no.	
81625.00	
sheet no.	
	C160



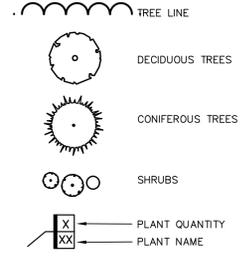
PLANT LIST

QTY	ABRV	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING	REMARKS
TREES							
1	AG	Amelanchier grandiflora 'Autumn Brilliance'	Apple Serviceberry	7'-8'	B&B	As Shown	Multi-Stem Clump
5	CF	Cornus florida	Flowering Dogwood	6' - 7' Ht.	B&B	As Shown	
3	GT	Quedia triacanthos inermis	Thornless Honeylocust	3" Cal.	B&B	As Shown	
3	JV	Juniperus virginiana	Eastern Red Cedar	8'-10'	B&B	As Shown	
2	PP	Picea pungens	Blue Spruce	8-10'	B&B	As Shown	
3	QR	Quercus rubra	Red Oak	2 - 2.5" Cal.	B&B	As Shown	
5	TC	Tsuga canadensis	Eastern Hemlock	8'-10'	B&B	As Shown	
SHRUBS							
15	Bg	Buxus microphylla 'Green Mountain'	Boxwood 'Green Mountain'	30"-36" Ht	B&B	As Shown	
10	Cb	Cornus sericea baileyi	Bailey Red Twig Dogwood	30"-36"	Cont.	As Shown	
1	Ex	Exchora 'Niagara'	Snow Day Surprise Pearl Bush	24"-30"	Cont.	As Shown	
1	Hy	Hydrangea paniculata 'Little Lime'	Little Lime	12" SPD	#3 Cont.	As Shown	
9	Jh	Juniperus horizontalis 'Wiltonii'	Creeping Juniper	#3 Cont.	Cont.	As Shown	
10	Mp	Myrica pensylvanica	Northern Bayberry	30"-36"	Cont.	As Shown	
3	Pm	Pinus mugo	Dwarf Mugo Pine	18-24"	2 Gal.	As Shown	
6	Sb	Spiraea bumalda 'Anthony Waterer'	Anthony Water Spirea	2 Gal	As Shown		
1	Sv	Syringa 'Penda' Bloomerang	Lilac	30"-36" Ht	Cont.	As Shown	
3	Yf	Yucca filamentosa	Adam's needle	#5 Cont.	As Shown		
PERENNIALS							
8	fa	Echinacea purpurea 'Fatal Attraction'	'Fatal Attraction' Purple Coneflower	#2 Cont.	12" O.C.		
9	or	Osmunda regalis	Royal Fern	#2 Cont.	18" O.C.		
17	rf	Rudbeckia fulgida 'Var Sullivant'	Black Eyed Susan	1-2 Gal	Cont.	As Shown	

* ALL DISTURBED AREAS NOT SPECIFICALLY CALLED OUT FOR NEW IMPROVEMENTS SHALL BE TOPSOILED, SEEDED WITH LAWN SEED MIX, & MULCHED (TYP)

1 LANDSCAPE PLAN
SCALE: 1"=20'

LANDSCAPING LEGEND:



2 PHOTOMETRIC PLAN
SCALE: 1"=20'

LIGHTING SCHEDULE & STATISTICS

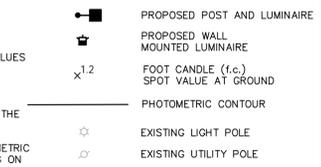
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Stat Zone # 2_TO PROPERTY BOUNDARY	✱	0.7 fc	3.7 fc	0.0 fc	N/A	N/A
Stat Zone # 4_PAVEMENT AND WALK ONLY	✱	1.7 fc	3.7 fc	0.0 fc	N/A	N/A

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage	MOUNT HEIGHT
⬆	LPA	5	PHILIPS GARDCO	P21-BLC-90LA-NW-EHSS	PureForm Area Small LED P21, 80 LED, 4000K CCT, TYPE BLC-EHSS OPTIC, With Additional Shielding	(1180LED) FLEXigine ARRAY(S) DRIVEN AT 350mA	1	P21-BLC-90LA-NW-EHSS.ies	5060	0.96	88	15.5 FT.
⬆	W1	5	PHILIPS GARDCO	PWS-48L-300-NW-G2-BLC-EBPC	Pureform LDGM Sconce (PWS) with EBPC cold pack, 48 LED's, 4000K CCT, TYPE BLC OPTIC,	(3) LED ARRAY(S) DRIVEN AT xxxmA	1	PWS-48L-300-NW-G2-BLC-EBPC.ies	1579	0.96	14	12 FT.

LIGHTING NOTES:

- PROPOSED LIGHTING AS MANUFACTURED BY PHILIPS/GUARDCO LIGHTING.
- GRID NUMBERS SHOWN REPRESENT FOOT CANDLE VALUES AT GROUND PLANE
- THE LIGHTING FIXTURES, SURFACE LOCATIONS AND ASSOCIATED PHOTOMETRIC VALUES ARE IDENTIFIED BY THE CHAZEN COMPANIES. DETAILED DESIGN OF THE LIGHTING SPECIFICATIONS, FOUNDATION DESIGN, LIGHTING CONDUIT, WIRING, AND CONTROL CIRCUITRY SHALL BE BY OTHERS.
- IF DISCREPANCIES EXIST BETWEEN THE LIGHTING SCHEDULE AND LIGHTING PLAN, THE PLAN SHALL DICTATE.
- THE EXISTING STREET & SITE LIGHTS HAVE NOT BEEN INCLUDED IN THIS PHOTOMETRIC ANALYSIS. THE LIGHT LEVELS SHOWN HEREON REFLECT THE PROPOSED LIGHTING ON SITE FOR THE PROPOSED PARKING LOT ONLY.
- CONCRETE LIGHT BASE PER MANUFACTURER.
- WHERE PRACTICAL, EXTERIOR LIGHTING INSTALLATIONS SHOULD INCLUDE TIMERS, DIMMERS, SENSORS, OR PHOTOCELL CONTROLLERS THAT TURN THE LIGHTS OFF DURING DAYLIGHT HOURS OR HOURS WHEN LIGHTING IS NOT NEEDED, TO REDUCE OVERALL ENERGY CONSUMPTION AND ELIMINATE UNNEEDED LIGHTING.
- VEGETATION AND LANDSCAPING SHALL BE MAINTAINED IN A MANNER THAT DOES NOT OBSTRUCT SECURITY LIGHTING.
- HOURS OF OPERATION SHALL BE BETWEEN 5 A.M. AND 10 P.M., SEVEN DAYS A WEEK.

LIGHTING LEGEND:



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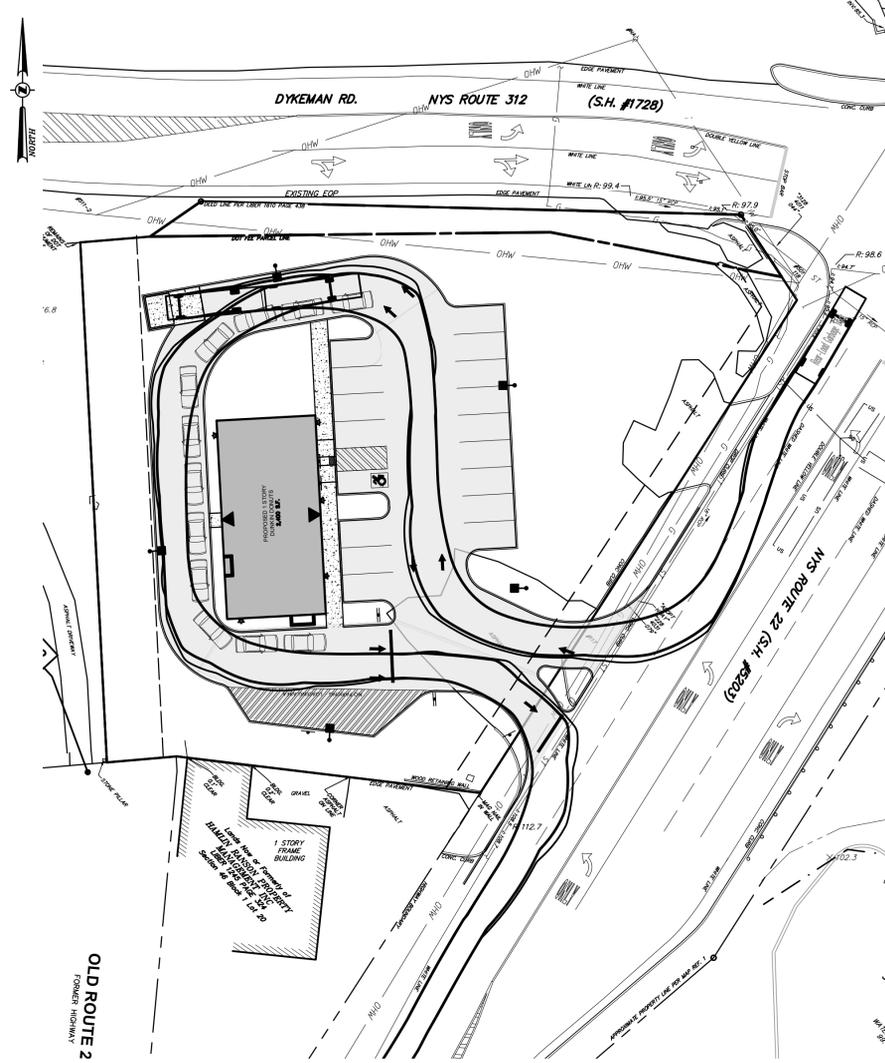
BATISTA SOUTHEAST DUNKIN'

LANDSCAPING & LIGHTING PLAN

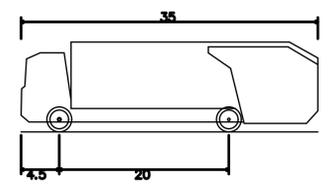
TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK

designed SMD checked CPL
date 12/21/18 scale 1"=20"
project no. 81625.00
sheet no. C180

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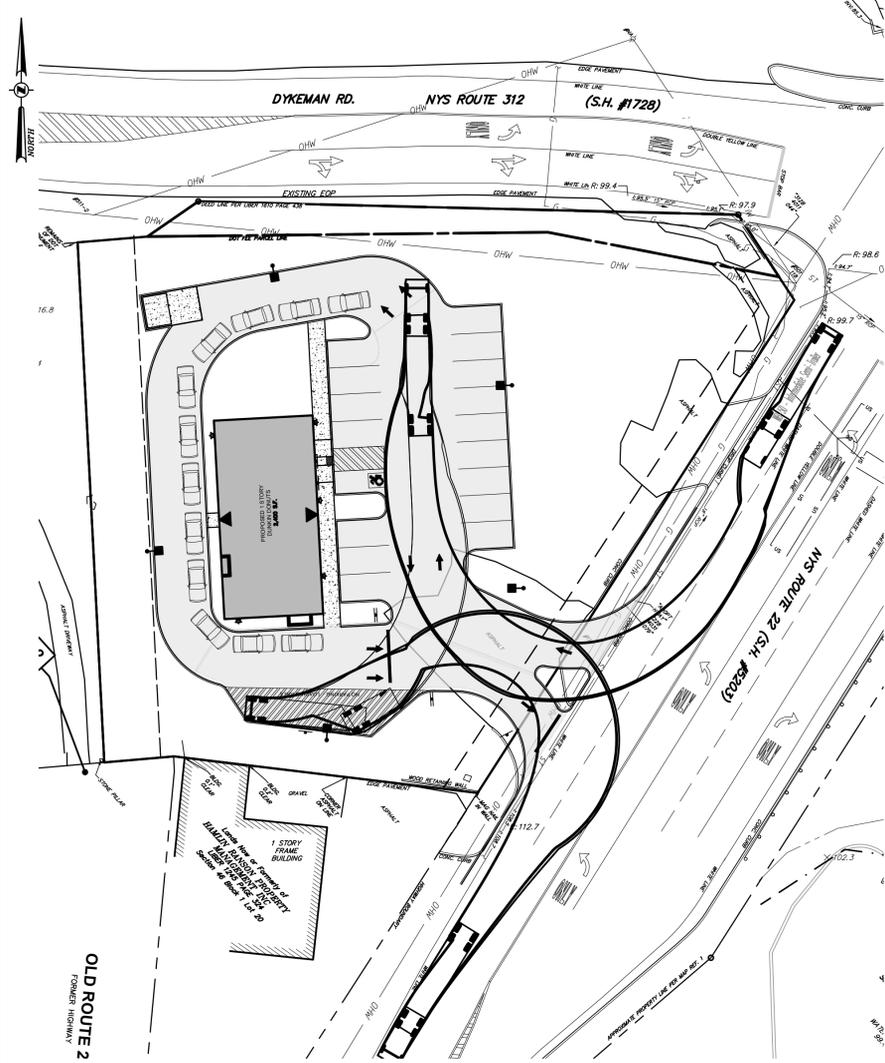


1 REAR-LOAD GARBAGE TRUCK
SITE PLAN VIEW
SCALE: 1"=30'

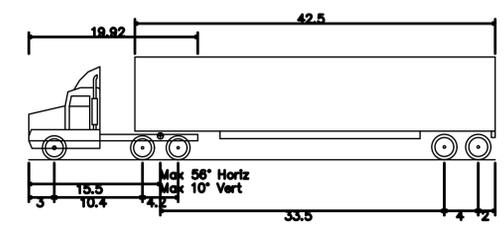


Rear-Load Garbage Truck
Overall Length 35.000ft
Overall Width 8.375ft
Overall Body Height 10.546ft
Min Body Ground Clearance 1.000ft
Track Width 8.375ft
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 29.300ft

1A REAR-LOAD GARBAGE TRUCK
PROFILE VIEW
SCALE: NTS

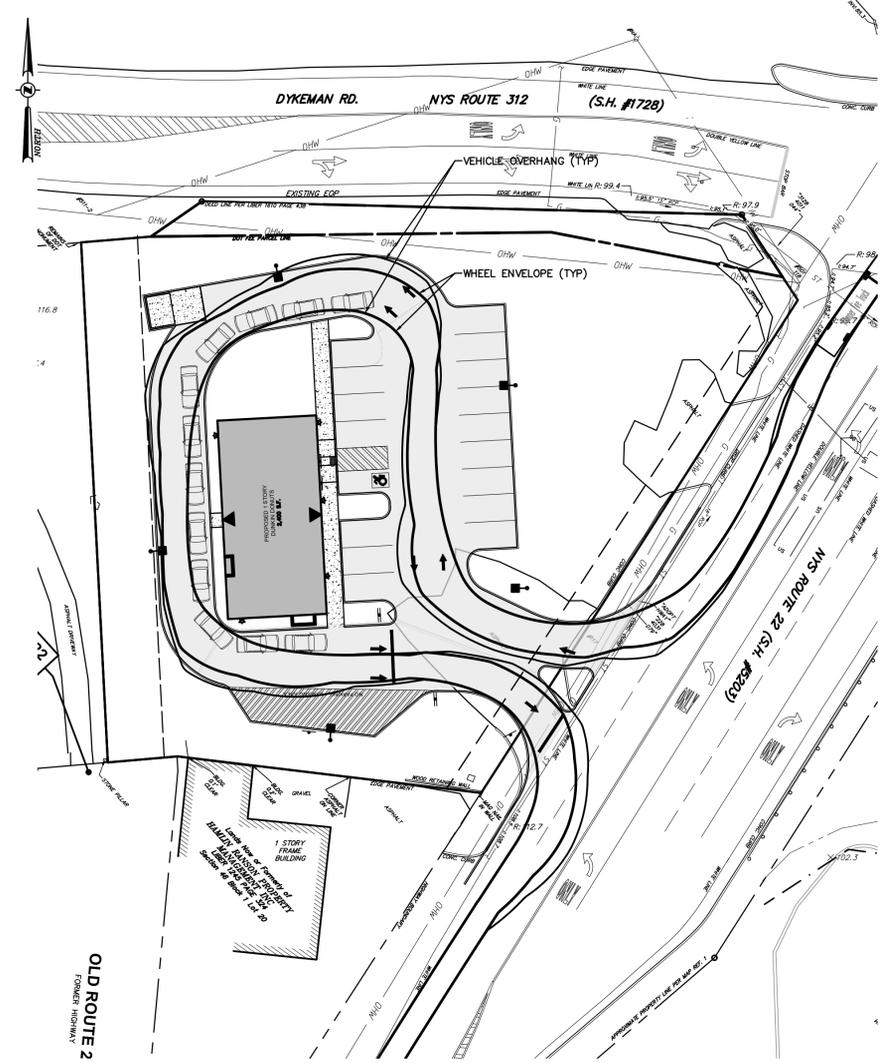


2 WB-50 INTERMEDIATE SEMI-TRAILER
SITE PLAN VIEW
SCALE: 1"=30'

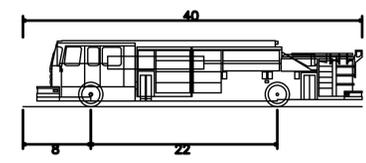


WB-50 - Intermediate Semi-Trailer
Overall Length 55.000ft
Overall Width 8.500ft
Overall Body Height 12.052ft
Min Body Ground Clearance 1.334ft
Max Track Width 8.500ft
Lock-to-lock time 6.00s
Max Steering Angle (Virtual) 17.90°

2A WEB-50 INTERMEDIATE SEMI-TRAILER
PROFILE VIEW
SCALE: NTS



3 PUMPER FIRE TRUCK
SITE PLAN VIEW
SCALE: 1"=30'



Pumper Fire Truck
Overall Length 40.000ft
Overall Width 8.167ft
Overall Body Height 7.745ft
Min Body Ground Clearance 0.656ft
Track Width 8.167ft
Lock-to-lock time 5.00s
Max Wheel Angle 45.00°

3A PUMPER FIRE TRUCK
PROFILE VIEW
SCALE: NTS

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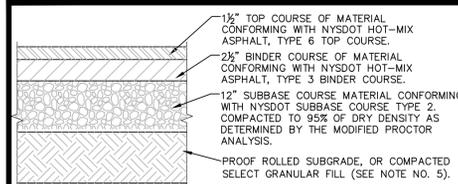
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BATISTA SOUTHEAST DUNKIN'

TRUCK MANEUVERING PLAN

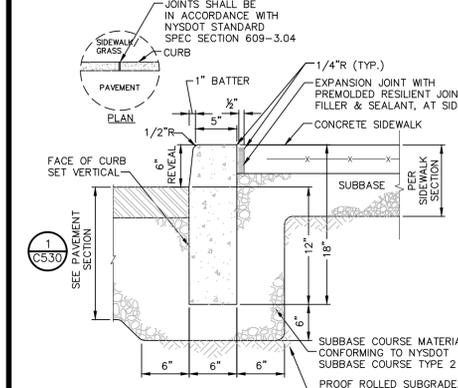
TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK

designed DCP	checked CPL
date 12/21/18	scale
project no. 81625.00	
sheet no.	C190



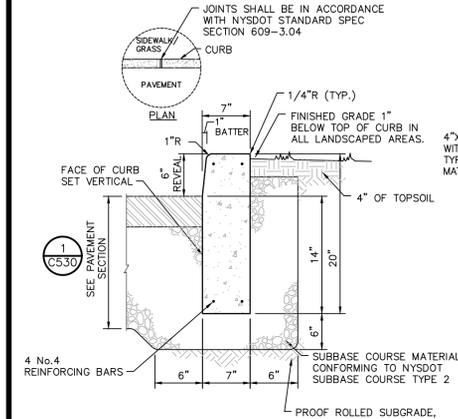
- NOTES:**
- MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYS DOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008, AND ALL ADDENDA THERETO.
 - SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 - SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS.
 - HOT MIX ASPHALT (HMA) PAVEMENT SHALL CONFORM WITH SECTION 400-HOT MIX ASPHALT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS. ALTHOUGH SECTION 400 IN ITS ENTIRETY IS REFERENCED, THE HOT MIX ASPHALT (HMA) PAVEMENT(S) SPECIFIED FOR THIS CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 403-HOT MIX ASPHALT (HMA) PAVEMENTS FOR MUNICIPALITIES.
 - TACK COAT WHEN SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
 - WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.

1 PAVEMENT SECTION DETAIL
SCALE: NOT TO SCALE



- NOTES:**
- ALL WORK SHALL CONFORM WITH THE NYSDOT STANDARD SPECIFICATION FOR CONSTRUCTION AND MATERIALS DATED, MAY 1, 2008, AND ALL ADDENDA THERETO; SPECIFICALLY SECTION 608- SIDEWALKS, DRIVEWAYS, AND BICYCLE PATHS.
 - SLOPE RAMP AND SIDE FLARES AS INDICATED IN THE PLANS OR AS ORDERED BY THE ENGINEER.
 - TACTILE WARNING STRIPS SHALL BE PROVIDED ON ALL RAMPS IN ACCORDANCE W/ ADA REQUIREMENTS.

2 PEDESTRIAN RAMP WITH FLARED SLOPES
SCALE: NOT TO SCALE



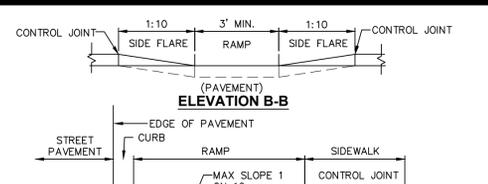
- NOTES:**
- CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
 - PRECAST CONCRETE CURB MAY BE SUBSTITUTED, WHEN ALTERNATE CONSTRUCTION DETAILS ARE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ALTERNATE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT SPEC SECTION 609.

4 CAST IN PLACE CONCRETE CURB AT SIDEWALK
SCALE: NOT TO SCALE

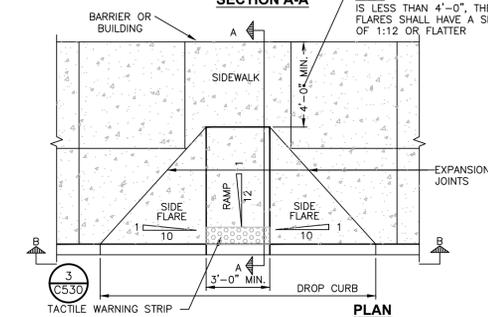


- NOTES:**
- CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
 - CURBS SHALL BE CAST-IN-PLACE. CONCRETE SHALL BE 1 2 3 MIX AIR-ENTRAINED 6% BY VOLUMEN, WITH DUREX OR EQUAL.
 - COVER OVER REINFORCEMENT BARS SHALL BE 1" TO 1-1/2".
 - EXPANSION JOINTS, 3/16" THICK SHALL BE PLACED AT 10 FT. INTERVALS, AND SHALL BE FILLED WITH CELLULOSE OR SIMILAR MATERIAL.

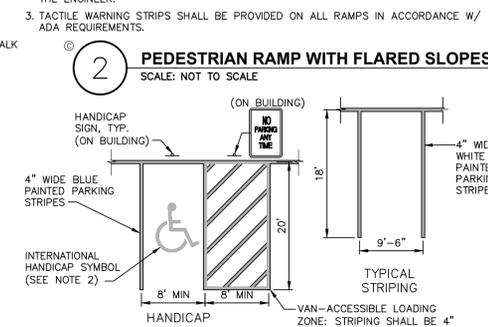
13 ON-SITE CAST-IN-PLACE CONCRETE CURB
SCALE: NOT TO SCALE



TOOLED EDGE



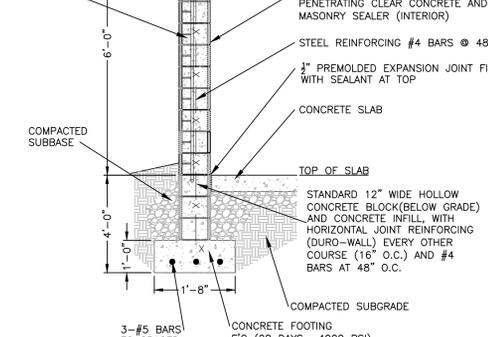
CONSTRUCTION JOINT



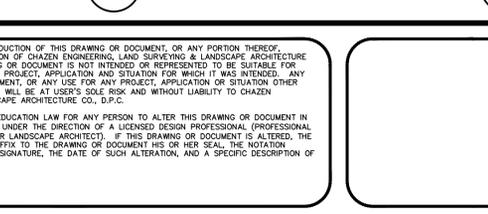
CONCRETE SIDEWALK DETAIL
SCALE: NOT TO SCALE



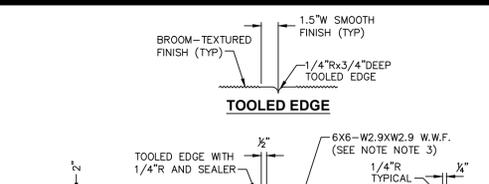
PAVEMENT MARKING DETAIL DIRECTIONAL ARROW
SCALE: NOT TO SCALE



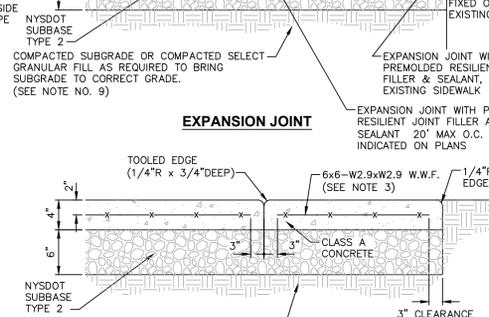
CONCRETE SIDEWALK AT BUILDING ENTRANCES
SCALE: NOT TO SCALE



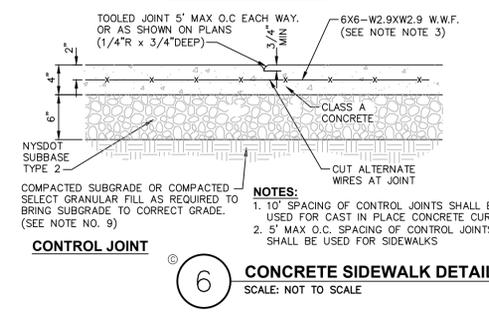
PAVEMENT MARKING DETAIL STOP BAR
SCALE: NOT TO SCALE



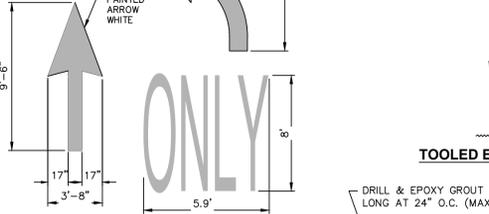
EXPANSION JOINT



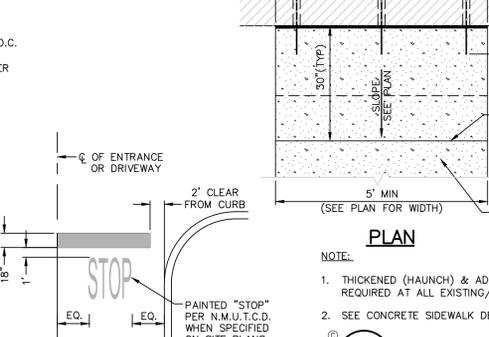
CONTROL JOINT



TOOLED EDGE - CONTROL JOINT



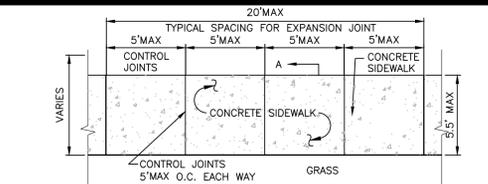
REFUSE ENCLOSURE
SCALE: NOT TO SCALE



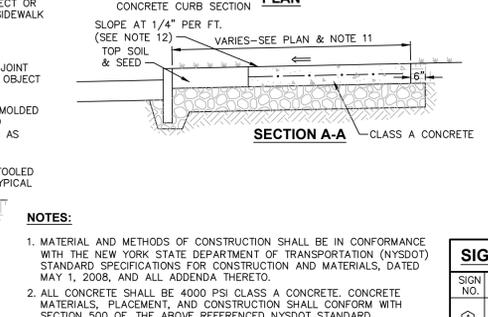
MASONRY WALL DETAIL FOR REFUSE ENCLOSURE
SCALE: NOT TO SCALE



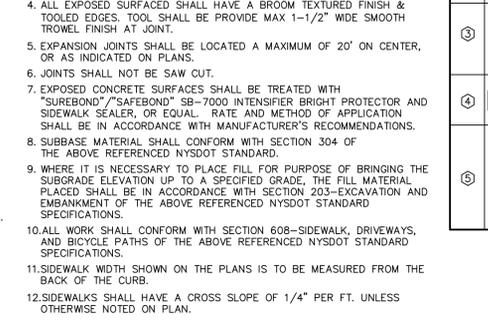
TRASH ENCLOSURE
SCALE: NOT TO SCALE



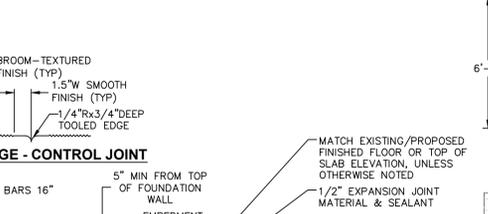
TACTILE WARNING STRIPS FOR RAMPS
SCALE: NOT TO SCALE



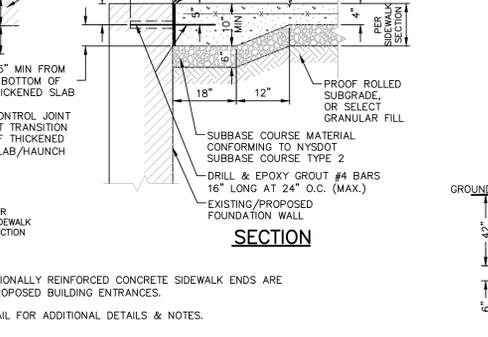
5 SIGN SCHEDULE
SCALE: NOT TO SCALE



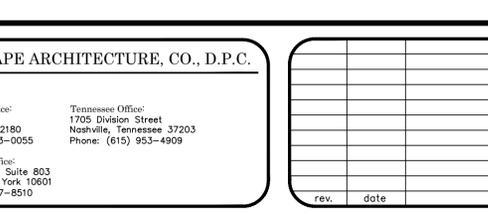
SINGLE POST SIGN MOUNTING DETAIL
SCALE: NOT TO SCALE



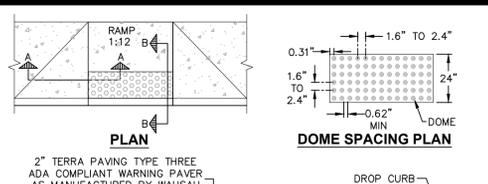
SINGLE POST STOP SIGN MOUNTING DETAIL
SCALE: NOT TO SCALE



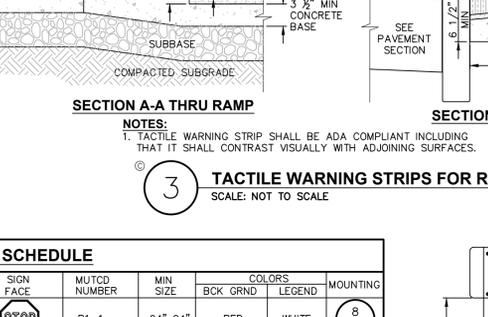
PAVEMENT MARKING DETAIL STOP BAR
SCALE: NOT TO SCALE



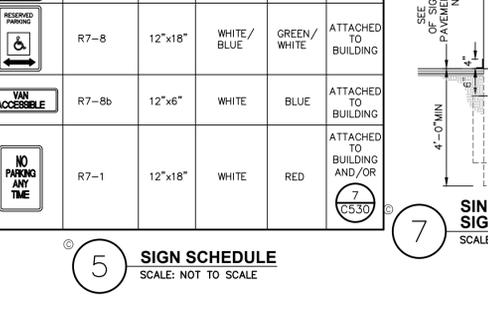
CONCRETE SIDEWALK AT BUILDING ENTRANCES
SCALE: NOT TO SCALE



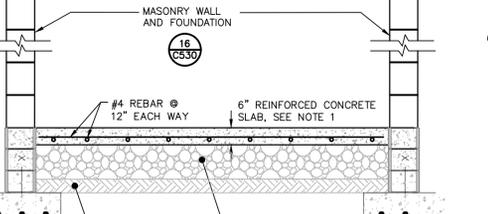
DOME SPACING PLAN



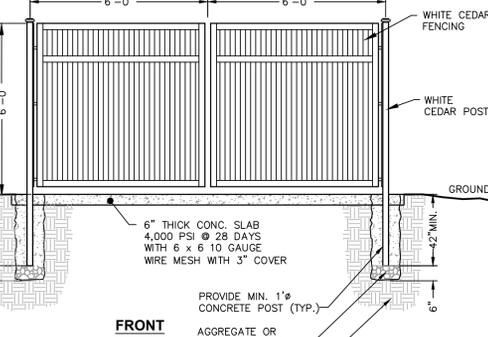
DOME SECTION



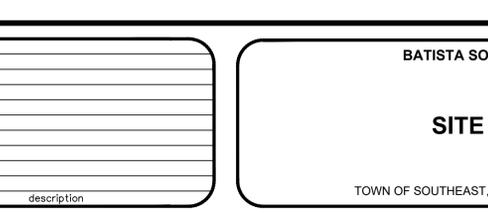
SECTION A-A THRU RAMP



SECTION B-B THRU RAMP



CONCRETE SIDEWALK AT BUILDING ENTRANCES
SCALE: NOT TO SCALE



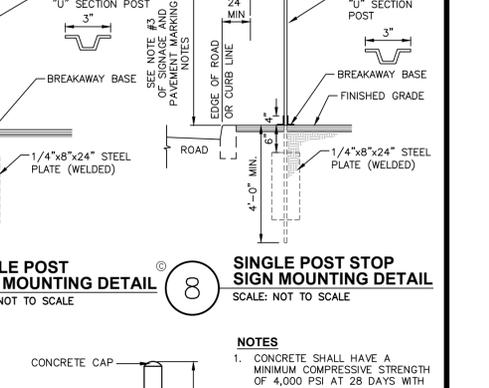
CONCRETE SIDEWALK AT BUILDING ENTRANCES
SCALE: NOT TO SCALE



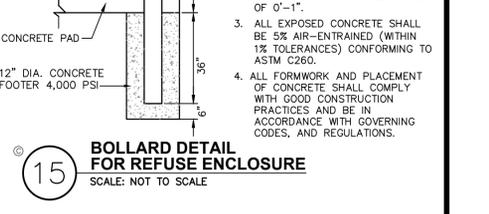
SIGNAGE AND PAVEMENT MARKING NOTES:

- ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE NYSDOT STANDARD SPECIFICATIONS, SECTION 645 & 640 AND THE "NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" - 2009 EDITION AND THE "NYS SUPPLEMENT."
- SIGN MOUNTING HEIGHT SHALL BE A MINIMUM OF 7' MINIMUM MOUNTING HEIGHT MAY BE ADJUSTED ONLY IN ACCORDANCE WITH PROVISIONS OUTLINED IN THE "NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" - 2009 EDITION AND THE "NYS SUPPLEMENT."
- SIGN POST SHALL BE IN ACCORDANCE W/ NYSDOT STANDARD SPECS SECTION 730. STRIPING WORK WILL BE REVIEWED AND ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.

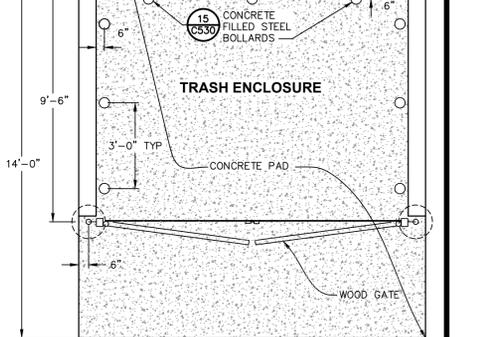
15 BOLLARD DETAIL FOR REFUSE ENCLOSURE
SCALE: NOT TO SCALE



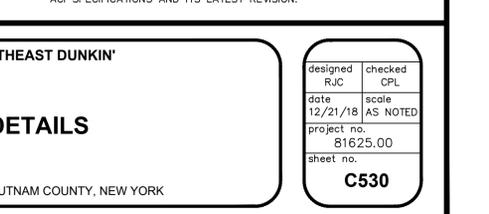
BOLLARD DETAIL FOR REFUSE ENCLOSURE
SCALE: NOT TO SCALE



REFUSE ENCLOSURE
SCALE: NOT TO SCALE



CONCRETE SIDEWALK AT BUILDING ENTRANCES
SCALE: NOT TO SCALE



CONCRETE SIDEWALK AT BUILDING ENTRANCES
SCALE: NOT TO SCALE

Dig Safely. New York
Call Before You Dig
Wait The Required Time
Confirm Utility Response
Respect The Marks
Dig With Care
800-962-7962
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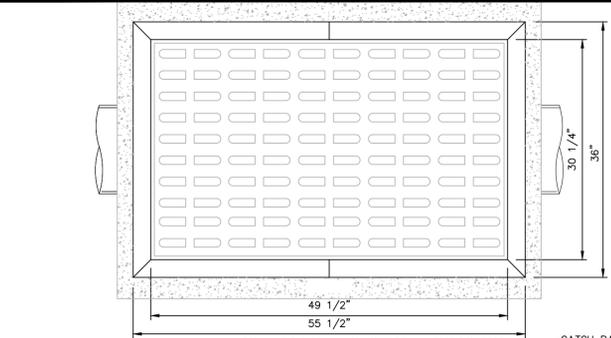
rev.	date	description

BATISTA SOUTHEAST DUNKIN'

SITE DETAILS

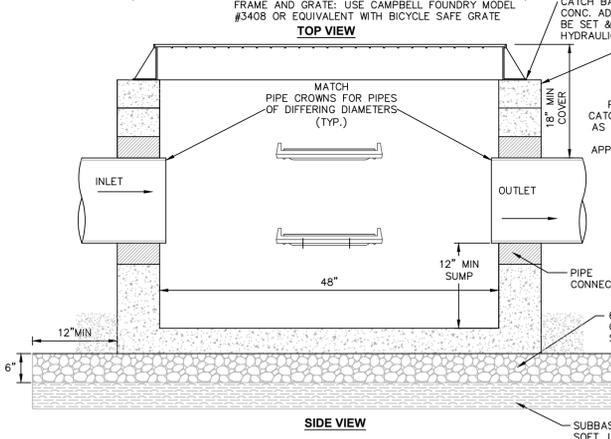
TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK

designed RJC checked CPL
date 12/21/18 scale AS NOTED
project no. 81625.00
sheet no. C530



STORM SEWER NOTES:

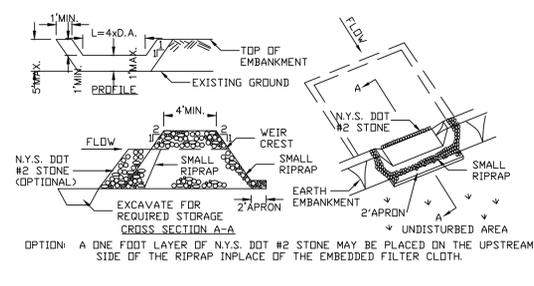
1. ALL STORM WATER MANAGEMENT STRUCTURES (I.E. CATCH BASIN, ETC.) SHALL BE REGULARLY INSPECTED FOR SEDIMENT ACCUMULATIONS. CATCH BASINS SHALL BE CLEANED WHEN SEDIMENT DEPTH REACHES A MAXIMUM OF 1/2 THE AVAILABLE SUMP DEPTH.
2. IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT A DEWATERING PIT (A.K.A. SUMP PIT) TO TRAP AND FILTER WATER FOR PUMPING TO A SUITABLE DISCHARGE AREA. THE DEWATERING PIT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL, LATEST EDITION.
3. ALL EROSION CONTROL MEASURES EMPLOYED DURING THE CONSTRUCTION PROCESS SHALL BE AS OUTLINED ON THE EROSION AND SEDIMENT CONTROL PLANS, DETAILS AND NOTES.



NOTES:

1. CATCH BASIN SHALL BE PRECAST CONCRETE. DESIGNED FOR HS20-44 VEHICULAR LOADING AND 25% IMPACT.
2. FRAME AND COVER SHALL BE DESIGNED FOR HS20-44 VEHICULAR LOADING & 25% IMPACT.
3. CONCRETE CATCH BASIN CASTING CLEAR OPENING DIMENSION MUST MATCH FRAME AND GRATE CLEAR OPENING DIMENSION.
4. CATCH BASINS HAVING A DEPTH GREATER THAN 48" FROM FINISHED SURFACE TO THE TOP OF THE CONCRETE BASE SHALL BE PROVIDED WITH STEPS.
5. BACKFILL USING TRENCH BACKFILL, COMPACTED IN 6" LIFTS.
6. SUMPS FOR CATCH BASINS SHALL BE 12".

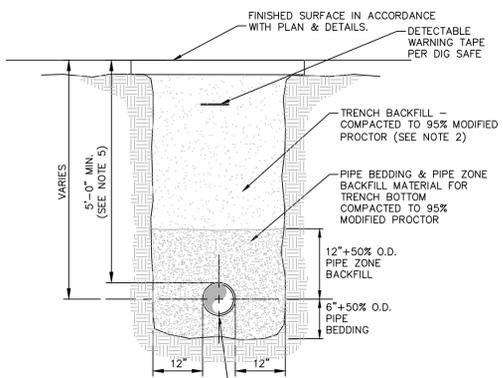
1 PRECAST CONCRETE RECTANGULAR CATCH BASIN DETAIL
SCALE: NOT TO SCALE



5 STONE OUTLET SEDIMENT TRAP
SCALE: NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
4. THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1" THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
5. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP.
6. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
9. MAXIMUM DRAINAGE AREA 5 ACRES



PIPE TYPE & SIZE VARIES. SEE PLAN

- NOTES:**
1. PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) SAND OR A MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. BEDDING GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIeve DESIGNATION	% PASSING
3/4"	100%
NO. 40	0-70%
NO. 200	0-10%

2. TRENCH BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) OR PROCESSED GRAVEL, OR EXCAVATED MATERIAL FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIieve DESIGNATION	% PASSING
4"	100%
NO. 40	0-70%
NO. 200	0-10%

IN NON-TRAFFIC UNPAVED AREAS TRENCH BACKFILL CAN BE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER AND COMPACTED TO 90% MODIFIED PROCTOR.

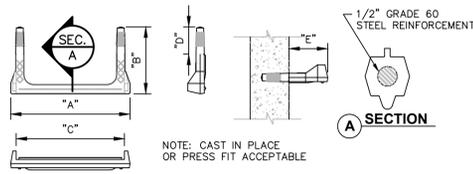
3. INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 6" BELOW SUBGRADE UNDER PAVEMENTS & SLAB.
4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.
5. 5'-0" MIN COVER SHALL BE APPLIED TO WATER MAIN OR SANITARY SEWER FORCE MAINS ONLY. 1'-6" MIN COVER SHALL BE APPLIED TO ALL DRAINAGE PIPES.

2 PIPE TRENCH DETAIL (TYPICAL)
SCALE: NOT TO SCALE

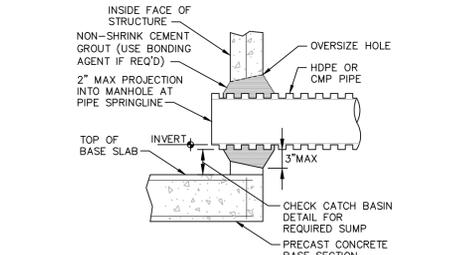
ACCEPTABLE MANHOLE STEPS

MANUFACTURER	PATTERN NUMBER	"A" STEP WIDTH	"B" LEG LENGTH	"C" RUNG CLEAR	"D" EMBEDMENT	"E" RUNG CLEAR
M.A. INDUSTRIES INC*	PS2-PF	15 7/16	9 3/8	14	3 3/8	6"
M.A. INDUSTRIES INC*	PS2-PFS	15 7/16	8 1/2	14	3 3/8	5 1/8"

* OR EQUIVALENT
MH STEP DESIGN AND INSTALLATION SHALL COMPLY WITH ALL OSHA REGULATIONS



3 COPOLYMER POLYPROPELENE MH STEP
SCALE: NOT TO SCALE



4 PIPE CONNECTION TO DRAINAGE STRUCTURE-CMP OR HDPE CEMENT GROUT SEAL JOINT
SCALE: NOT TO SCALE

TESTING GRAVITY SEWER SYSTEM:

1. CONTRACTOR SHALL INSPECT AND TEST THE INSTALLATIONS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION WHEN WORK IS READY FOR TESTING. AFTER ALL TESTS HAVE BEEN PERFORMED, EVIDENCE OF COMPLIANCE SHALL BE FORWARDED TO OWNER/ENGINEER AND THE AUTHORITY HAVING JURISDICTION PRIOR TO ACCEPTANCE.
2. THE CONTRACTOR SHALL TEST AND INSPECT FOR ALIGNMENT OF ALL SANITARY SEWERS.
3. EACH MANHOLE-TO-MANHOLE SECTION SHALL BE REJECTED OR ACCEPTED BASED ONLY ON RESULTS OF ITS OWN INDEPENDENT SECTION TEST AND NOT ON RESULTS OF ANY ONE TEST RUN SIMULTANEOUSLY OVER MORE THAN ONE CONSECUTIVE MANHOLE-TO-MANHOLE SECTION. THE ONLY EXCEPTION ALLOWED: ACCEPTING SEVERAL CONSECUTIVE MANHOLE-TO-MANHOLE SECTIONS BASED ON ONE COMBINED INFILTRATION TEST INDICATING ZERO INFILTRATION.
4. LOW PRESSURE AIR TESTING SHALL BE PERFORMED UNDER DIRECTION OF ENGINEER ACCESS TO ASTM F1417. LOW PRESSURE AIR TEST IS A COMPARISON OF THE MEASURED TIME NECESSARY FOR ONE (1) PSIG PRESSURE DROP TO OCCUR, IF AT ALL, WITH MINIMUM ALLOWABLE TIME FOR THAT PRESSURE DROP TO OCCUR DETERMINED BY METHODS INDICATED IN ASTM F1417. IF THE ONE (1) PSIG PRESSURE DROP OCCURS FASTER THAN ALLOWABLE TIME, SECTION IS UNACCEPTABLE.
5. AN AIR TEST SHALL NOT BE RUN UNTIL SECTION OF LINE TO BE TESTED HAS BEEN CLEANED OF ALL FOREIGN MATERIAL BY FLUSHING AND HAS BEEN VISUALLY INSPECTED AND APPROVED BY THE ENGINEER. CERTAIN PIPE MATERIALS PRODUCE MORE CONSISTENT RESULTS WHEN INTERIOR OF PIPE IS WETTED PRIOR TO TESTING.
6. WHERE FLEXIBLE PIPE IS USED, CONTRACTOR SHALL TEST ALL MAINLINE PIPE FOR MAXIMUM ALLOWABLE DEFLECTION OF 5% OF OUTSIDE DIAMETER. DEFLECTION TESTS SHALL BE PERFORMED USING A CIRCLAR STEEL BALL ON SLED 1/16-INCH IN DIAMETER SMALLER THAN ALLOWABLE INSIDE DIAMETER OF FLEXIBLE PIPE WHEN DEFLECTED A MAXIMUM OF 5% OF OUTSIDE DIAMETER. DEFLECTION TESTING OF ANY PIPE SHALL BE DONE NO SOONER THAN 30 DAYS AFTER DATE OF INSTALLATION OF PIPE SECTION UNLESS WRITTEN EXCEPTION.
7. SEWERS SHALL BE LAID WITH STRAIGHT ALIGNMENT BETWEEN MANHOLES. STRAIGHT ALIGNMENT SHALL BE CHECKED EITHER USING A LASER BEAM OR LAMPING. TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
8. MANHOLES, WHICH CANNOT BE PROPERLY AIR TESTED, SHOULD BE VISUALLY INSPECTED AND LEAKAGE-TESTED USING INTERNAL OR EXTERNAL HYDROSTATIC PRESSURE. LEAKAGE TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
9. IN AREAS WHERE CONVENTIONAL TESTING IS IMPRACTICAL (I.E. AREAS DESIGNATED BY ENGINEER WHERE EXISTING SERVICES ARE TIED INTO NEW LINE IMMEDIATELY AND ANY BLOCKAGE COULD RESULT IN HEALTH PROBLEMS) NO LINES SHALL BE BACKFILLED UNTIL EACH PIPE SECTION AND CONNECTION IS INSPECTED AND APPROVED.
10. WHERE SEWERS ARE CONSTRUCTED OF PRESSURE-RATED PIPE AND INSTALLED WITH LESS THAN 18 INCHES VERTICAL SEPARATION FROM EXISTING OR PROPOSED WATER MAINS, SEWERS SHALL BE HYDROSTATICALLY TESTED AT 150 PSI TO ASSURE WATER TIGHTNESS. HYDROSTATIC ACCEPTANCE TESTS SHALL BE CONDUCTED AS SPECIFIED FOR TESTING WATER MAINS, EXCEPT THAT TESTING MAY BE PERFORMED WITH THE PIPE SECTION PARTIALLY BACK-FILLED.
11. IF THE ALLOWABLE RATE OF AIR LEAKAGE IS EXCEEDED, THE CONTRACTOR SHALL LOCATE POINTS OF EXCESSIVE LEAKAGE AND SHALL PROMPTLY CORRECT, REPAIR, AND BRING SYSTEM UP TO THE STANDARD. COSTS OF ALL SUCH REPAIRS AND CORRECTIVE MEASURES, INCLUDING COSTS OF REPEATED TESTS, SHALL BE BORN BY CONTRACTOR, THE SEWER LINE SECTION (INCLUDING MANHOLES AND BUILDING SERVICES) UNDER TEST SHALL NOT BE ACCEPTED UNTIL THESE TEST CRITERIA ARE MET.
12. SANITARY MANHOLES SHALL BE TESTED IN ACCORDANCE WITH ASTM C1244. A VACUUM OF 10 INCHES OF Hg SHOULD BE DRAWN ON THE MANHOLE AFTER ALL HOLES ARE PLUGGED, AND INLETS/OUTLETS ARE TEMPORARILY PLUGGED AND SECURED. THE TIME IS MEASURED FOR THE VACUUM TO DROP TO 9 INCHES Hg. A MANHOLE IS ACCEPTED IF THE MEASURED TIME MEETS OR EXCEEDS THE VALUES PRESENTED IN TABLE 1 OF ASTM C1244. IF THE MANHOLE FAILS THE INITIAL TEST, IT SHALL BE REPAIRED BY AN APPROVED METHOD UNTIL A SATISFACTORY TEST IS OBTAINED. MANHOLES, WHICH CANNOT BE PROPERLY AIR TESTED, SHOULD BE VISUALLY INSPECTED AND LEAKAGE-TESTED USING INTERNAL OR EXTERNAL HYDROSTATIC PRESSURE. LEAKAGE TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

FORCE MAIN TESTING:

1. THE COMPLETE SEWAGE FORCE MAIN INCLUDING VALVES, FITTINGS CONNECTIONS TO PUMPS AND OTHER PIPELINE SYSTEMS SHALL BE TESTED FOR LEAKAGE.
2. THE SYSTEM SHALL BE PRESSURIZED TO 1.5 TIMES THE PIPE WORKING PRESSURE AT THE LOWEST POINT OF THE MAIN OR 100 PSI, WHICHEVER IS GREATER. AFTER THIS PRESSURE, ±5 PSI, HAS BEEN MAINTAINED SUCCESSFULLY FOR ONE HOUR, THE LEAKAGE TEST SHALL BE PERFORMED FOR A PERIOD OF NO LESS THAN 2 HOURS. HYDROSTATIC TESTS SHALL BE PERFORMED AND SUCCESSFUL TEST RESULTS DERIVED IN ACCORDANCE WITH AWWA C 600-05, SECTION 5. IN NO CASE SHALL THE TEST PRESSURE EXCEED THE DESIGN PRESSURE LIMITS FOR ANY PIPE, THRUST RESTRAINT, FITTINGS, VALVES OR OTHER APPURTENANCE OF THE TEST SECTION.
3. IF THE LEAKAGE IN THE SYSTEM EXCEEDS THE SPECIFIED AMOUNT, MAKE ANY REPAIRS OR REPLACEMENTS NECESSARY TO REDUCE THE LEAKAGE TO THE REQUIRED LIMITS AND RETEST THE SYSTEM.

THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE AS SHOWN IN THE FOLLOWING TABLE: ALLOWABLE LEAKAGE IN GALLONS PER 1000 FT OF PIPELINE (GPH).

AVG. TEST PRESSURE PSI	NOMINAL PIPE DIAMETER-IN.	4	6
450	0.29	0.57	0.86
400	0.27	0.54	0.81
350	0.26	0.51	0.76
300	0.24	0.47	0.70
275	0.23	0.45	0.67
250	0.22	0.43	0.64
225	0.21	0.41	0.61
200	0.19	0.38	0.57
175	0.18	0.36	0.54
150	0.17	0.33	0.50
125	0.15	0.30	0.45
100	0.14	0.27	0.41

MANHOLES AND OTHER BELOW GRADE STRUCTURES:

1. STRUCTURAL DESIGN FOR MANHOLES AND OTHER BELOW-GRADE PRECAST CONCRETE STRUCTURES:
 - A. NON-TRAFFIC LOADS: BELOW GRADE PRECAST CONCRETE STRUCTURES SHALL BE DESIGNED TO WITHSTAND LOADS IMPOSED BY STRUCTURE WEIGHT, EARTH COVER, LATERAL PRESSURE FROM EARTH AND GROUND WATER, AND LIVE LOADS SUCH AS PEDESTRIAN TRAFFIC OR MACHINERY ON OR ABOVE THE STRUCTURE; AND
 - B. TRAFFIC LOADS: BELOW GRADE PRECAST CONCRETE STRUCTURES SHALL BE DESIGNED TO ALSO WITHSTAND TRAFFIC LOADS CREATED BY AN HS20-44 TRUCK PLUS 25% IMPACT AS DEFINED IN THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) DESIGN STANDARDS.
2. MATERIAL WHICH SHALL BE UTILIZED IN THE CONSTRUCTION OF PRECAST CONCRETE STRUCTURES:
 - CEMENT: ASTM C-150, TYPES I,II,III,IV
 - SAND: NYS DOT STD. SPEC. SECTION NO. 703-0 COARSE SAND
 - STONE: NYS DOT STD. SPEC. SECTION NO. 703-02 COARSE AGGREGATE
 - STEEL BAR REINFORCEMENT: ASTM A615, GRADE 60
 - WIRE MESH REINFORCEMENT: ASTM A185 PLAIN
 - CONCRETE STRENGTH (28 DAY): 4,000 PSI (F'c)
 - ENTRAINED AIR: 5% MIN.
3. ALL CASTINGS (FRAMES AND COVERS, FRAMES AND GRATES, ETC.) FOR USE IN CONJUNCTION WITH MANHOLES AND OTHER BELOW GRADE STRUCTURES SHALL BE MANUFACTURED FROM GRAY IRON OR DUCTILE IRON. GRAY IRON SHALL CONFORM WITH ASTM A 48, CLASS 30B AND DUCTILE IRON SHALL CONFORM WITH ASTM A 536 AND BE OF A GRADE APPROPRIATE TO ITS INTENDED USE.
4. ALL CASTINGS (FRAMES AND COVERS, FRAMES AND GRATES, ETC.) FOR USE IN CONJUNCTION WITH MANHOLES AND OTHER BELOW GRADE STRUCTURES SHALL BE DESIGNED TO WITHSTAND AASHTO HS 20-44 HIGHWAY LOADING PLUS 25% IMPACT.
5. ALL ASTM REFERENCES SHALL BE FOR THE LATEST ACTIVE STANDARD.

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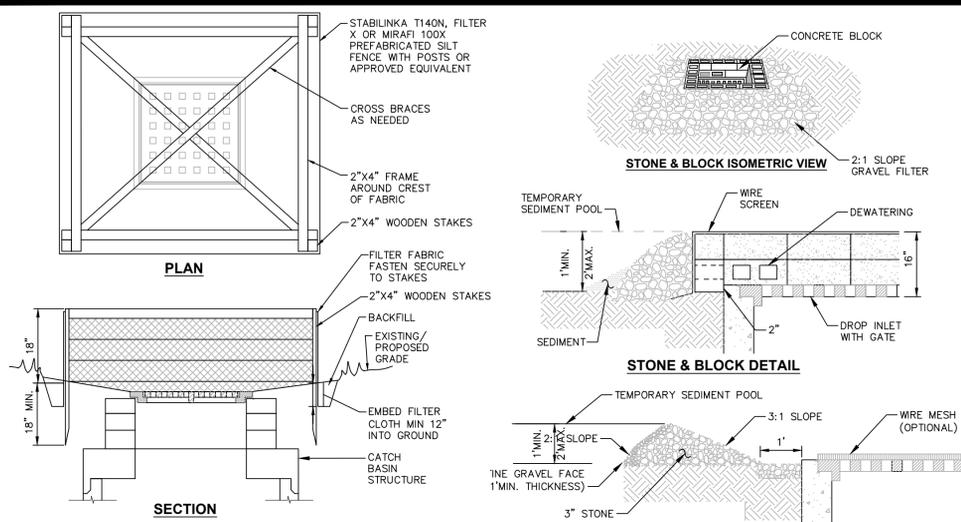
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BATISTA SOUTHEAST DUNKIN'

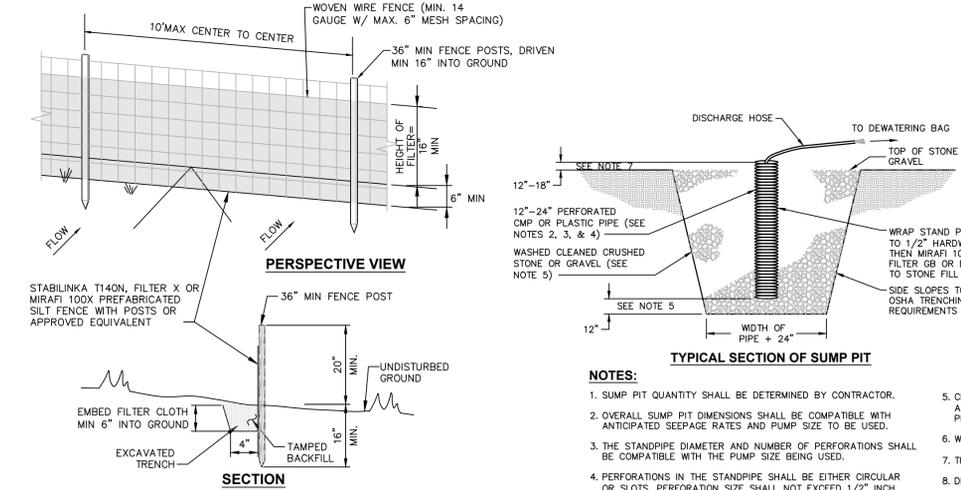
STORM SEWER DETAILS

TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK

designed	checked
RJC	CPL
date	scale
12/21/18	AS NOTED
project no.	81625.00
sheet no.	C540

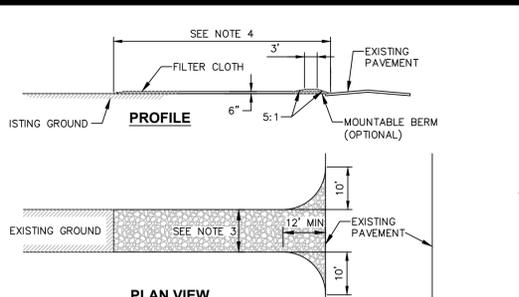
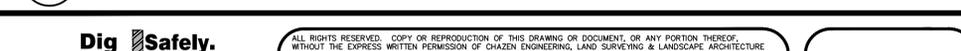


- NOTES:**
1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85.
 2. CUT FABRIC FROM CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED, OVERLAP TO THE NEXT STAKE.
 3. STAKE MATERIALS WILL BE STANDARD 2"x4" WOOD OR EQUIVALENT, WITH A MINIMUM LENGTH OF 3 FEET.
 4. STAKE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE MINIMUM 18" DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND FABRIC FOR SUPPORT.
 5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
 6. A 2"x4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVERFLOW STABILITY.
 7. MAXIMUM DRAINAGE AREA IS 1 ACRE.
 8. INLET PROTECTION SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN STABILIZED.
 9. ONCE BINDER COURSE IS PLACED INLET PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH DETAIL 6, SHEET S03, "CATCH BASIN STONE AND BLOCK INLET PROTECTION."

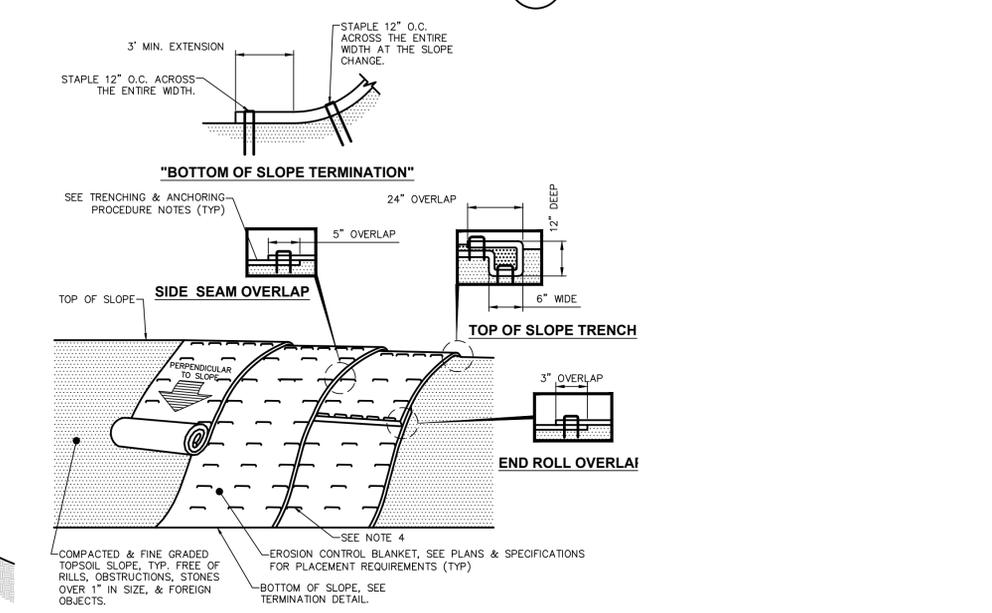
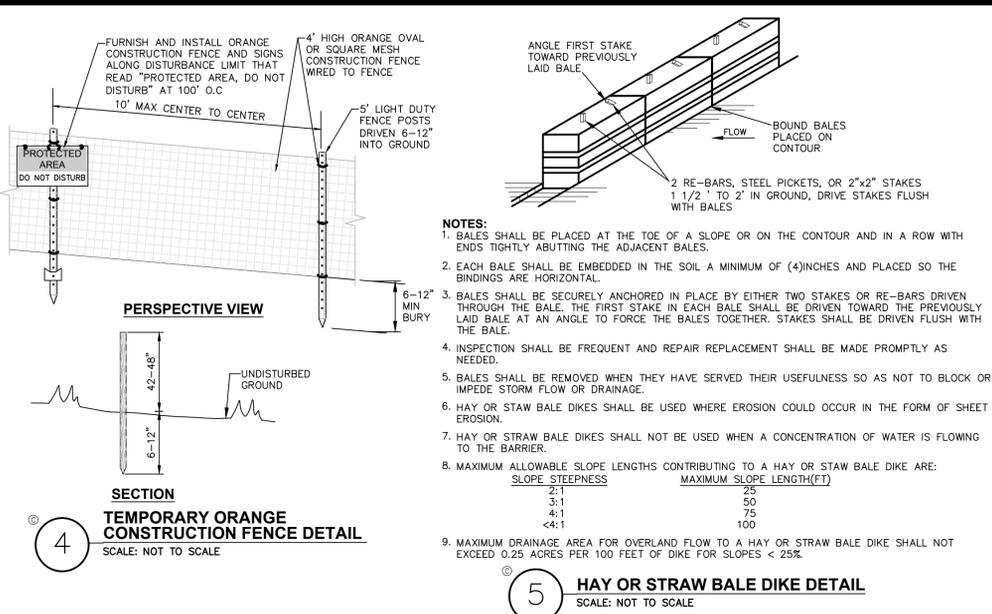


- NOTES:**
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL "T" OR "U" TYPE OR HARDWOOD.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAX MESH OPENING.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIALS REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
 5. MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED 1/4 ACRE PER 100 FEET OF FENCE.
 6. SILT FENCE SHALL BE USED WHERE EROSION COULD OCCUR IN THE FORM OF SHEET EROSION.
 7. SILT FENCE SHALL NOT BE USED WHEN A CONCENTRATION OF WATER IS FLOWING TO THE BARRIER.
 8. MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUN-OFF TO A SILT FENCE ARE:

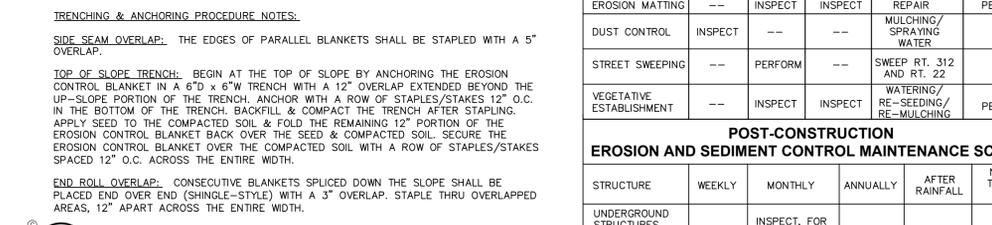
SLOPE STEEPNESS	MAXIMUM SLOPE LENGTH (FT)
2:1	25
3:1	50
4:1	75
5:1 OR FLATTER	100



- CONSTRUCTION ENTRANCE SPECIFICATIONS:**
1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 3. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY FOUR (24) FEET IF SINGLE ENTRANCE TO SITE.
 4. LENGTH - NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
 5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. 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.



- NOTES:**
1. PREPARE THE TOPSOIL (SEEDBED) FIRST BY RAKING, SHAPING, FINE GRADING, COMPACTING, SEEDING & FERTILIZING THE SLOPES.
 2. USE THE TRENCHING & ANCHORING PROCEDURES DETAILED HEREIN TO SECURE ANY EXPOSED MATERIAL ENDS. SECURE ALL PRODUCT OVERLAPS. OVERLAP IN THE DIRECTION OF WATER FLOW, PERPENDICULAR TO THE SLOPE.
 3. KEEP EROSION CONTROL BLANKET IN SOLID CONTACT WITH THE TOPSOIL.
 4. USE THE REQUIRED NUMBER OF STAPLES/STAKES TO SECURELY FASTEN THE EROSION CONTROL BLANKET TO THE SLOPE. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLES/STAKES LENGTHS GREATER THAN 6" MAY BE NECESSARY FOR PROPER SECURING. STAPLE PATTERNS & OVERLAPS ARE DEPENDENT ON SITE CONDITIONS & MANUFACTURER'S REQUIREMENTS. CONTRACTOR SHALL CONSULT WITH MANUFACTURER FOR ACTUAL SITE SPECIFIC REQUIREMENTS.



- TRENCHING & ANCHORING PROCEDURE NOTES:**
- SIDE SEAM OVERLAP:** THE EDGES OF PARALLEL BLANKETS SHALL BE STAPLED WITH A 5" OVERLAP.
- TOP OF SLOPE TRENCH:** BEGIN AT THE TOP OF SLOPE BY ANCHORING THE EROSION CONTROL BLANKET IN A 6" D x 6" W TRENCH WITH A 12" OVERLAP EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR WITH A ROW OF STAPLES/STAKES 12" O.C. IN THE BOTTOM OF THE TRENCH. BACKFILL & COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL & FOLD THE REMAINING 12" PORTION OF THE EROSION CONTROL BLANKET BACK OVER THE SEED & COMPACTED SOIL. SECURE THE EROSION CONTROL BLANKET OVER THE COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED 12" O.C. ACROSS THE ENTIRE WIDTH.
- END ROLL OVERLAP:** CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE SHALL BE PLACED END OVER END (SHINGLE-STYLE) WITH A 3" OVERLAP. STAPLE THRU OVERLAPPED AREAS, 12" APART ACROSS THE ENTIRE WIDTH.

- CONSTRUCTION SEQUENCING NOTES:**
1. CONSTRUCTION SEQUENCE SHALL AS BE OUTLINED ON DEMOLITION PLAN, EROSION & SEDIMENT CONTROL PLAN PRIOR TO CONSTRUCTION, AND EROSION & SEDIMENT CONTROL PLAN DURING CONSTRUCTION.
- MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES:**
- PERMANENT AND TEMPORARY VEGETATION:**
 INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND REESTABLISHED IMMEDIATELY.
- STABILIZED CONSTRUCTION ENTRANCE:**
 INSPECT THE ENTRANCE PAD EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. CHECK FOR MUD, SEDIMENT BUILD-UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WET WEATHER. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE.
- SILT FENCE:**
 INSPECT FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.
- SOIL STOCKPILE:**
 INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAY BALE) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER IF IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIERS BEGINS TO DECOMPOSE, OR IN ANYWAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STOCKPILE STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIERS WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.
- DUST CONTROL:**
 SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING WATER TO MINIMIZE DUST. STRUCTURAL MEASURES (MULCHING, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED THROUGHOUT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.
- STORM DRAIN INLET PROTECTION:**
 INSPECT ALL STORM DRAIN INLET PROTECTION DEVICES EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT FROM THE POOL AREA AS NECESSARY.
- SNOW AND ICE CONTROL:**
 PREVENTING SNOW AND ICE, AND DRYWEAYS ADJACENT TO WATER QUALITY FILTERS SHALL NOT BE SANDED DURING SNOW EVENTS DUE TO HIGH POTENTIAL FOR CLOGGING FROM SAND IN SURFACE WATER RUNOFF. USE SALT ONLY FOR SNOW AND ICE CONTROL.
- SEEDING SCHEDULE:**
 INSPECT DAILY DURING OPERATION FOR CLOGGING OR OVERFLOW. CLEAR INLET AND DISCHARGE PERKS OF OBSTRUCTIONS. A FILTER MATERIAL BECOMES CLOGGED WITH SEDIMENT, FIT CATCH BASIN SHALL BE DISMANTLED AND CONSTRUCT NEW FITS AS NEEDED. DRAINAGE DEVICES SHALL BE REMOVED DURING SOIL REMEDIATION. SUCH DISCHARGE SHALL BE DIRECTED TO A PORTABLE TANK AND REMOVED FROM THE SITE IN ACCORDANCE WITH STARS 1.

- EROSION AND SEDIMENT CONTROL MEASURES:**
- GENERAL MEASURES:**
1. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES.
 2. AS MUCH AS IS PRACTICAL, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
 3. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION.
 4. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE PROJECT SITE.

- GENERAL EROSION AND SEDIMENT CONTROL NOTES:**
1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", AUGUST 2008.
 2. EXCESS SOIL TO BE STOCKPILED WITHIN THE LIMITS OF SITE DISTURBANCE IF NOT USED IMMEDIATELY FOR GRADING PURPOSES. INSTALL SILT FENCE AROUND SOIL STOCKPILES.
 3. APPLY SURFACE STABILIZATION AND RESTORATION MEASURES. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS DELAYED, SUSPENDED, OR INCOMPLETE, AND WILL NOT BE REDISTURBED FOR 21 DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED. (SEE SPECIFICATIONS FOR TEMPORARY VEGETATIVE COVER). AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS COMPLETE, AND WILL NOT BE REDISTURBED SHALL BE STABILIZED AND RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. (SEE SPECIFICATIONS FOR PERMANENT VEGETATIVE COVER). SEEDING FOR PERMANENT VEGETATIVE COVER SHALL BE WITHIN THE SEASONAL STABILIZATION WINDOW. STABILIZATION WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
 4. SEEDED AREAS TO BE MULCHED WITH STRAW OR HAY MULCH IN ACCORDANCE WITH VEGETATIVE COVER SPECIFICATIONS.
 5. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.
 6. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER.
 7. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.
 8. THE OWNER/OPERATOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING THE CONSTRUCTION EROSION AND SEDIMENT CONTROL PLAN AND THE LONG TERM / POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES.

- TOPSOIL SPECIFICATIONS:**
1. EXISTING EXCESS TOPSOIL SHALL BE REMOVED AND STORED IN TOPSOIL STOCKPILES. SUFFICIENTLY REMOVED FROM OTHER EQUIPMENT OR DISTURBANCE TO AVOID MIXING. SILT FENCE SHALL BE INSTALLED AROUND TOPSOIL STOCKPILE AREAS.
- SITE PREPARATION:**
1. COMPLETE ROUGH GRADING AND FINAL GRADE, ALLOWING FOR DEPTH OF TOPSOIL TO BE ADDED.
 2. SCARIFY ALL COMPACT, SLOWLY PERMEABLE, MEDIUM AND FINE TEXTURED SUBSOIL AREAS. SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE STEEPER THAN 5%.
 3. REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3 INCHES IN DIAMETER, AND OTHER LITTER.

- TOPSOIL MATERIALS:**
1. SEE SHEET S04
- APPLICATION AND GRADING:**
1. TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OF 4" OVER THE AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTIALLY FROZEN, MUDDY, OR ON FROZEN SLOPES OR OVER ICE, SNOW, OR STANDING WATER.
 2. TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5% SHALL BE PROMPTLY FERTILIZED, SEED, MULCHED AND STABILIZED BY "TRACKING" WITH SUITABLE EQUIPMENT.

VEGETATIVE COVER SPECIFICATIONS:

TEMPORARY VEGETATIVE COVER (DURING CONSTRUCTION):

1. SITE PREPARATION (SAME AS PERMANENT VEGETATIVE COVER)
2. SEED MIX: (APPLY AT RATE OF 3 TO 4 LBS PER 1000 SF)

AMOUNT BY WEIGHT	MINIMUM %	PURITY	SEEDMATION
100% ANNUAL RYEGRASS	98%	98%	90%
3. SEEDING (SAME AS PERMANENT VEGETATIVE COVER)

PERMANENT VEGETATIVE COVER (AFTER CONSTRUCTION):

1. SEE SHEET S04

DURING CONSTRUCTION: EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE

STRUCTURE	DAILY	WEEKLY	AFTER RAINFALL	NECESSARY TO MAINTAIN FUNCTION	AFTER COMPLETION OF CONSTRUCTION
SILT FENCE BARRIER	---	INSPECT	INSPECT	CLEAN/REPLACE	REMOVE
STABILIZED CONSTRUCTION ENTRANCE	INSPECT	---	INSPECT	CLEAN/REPLACE	REMOVE
EROSION MATTING	---	INSPECT	INSPECT	REPAIR/MULCHING/SPRAYING WATER	PERMANANT
DUST CONTROL	INSPECT	---	---	---	N/A
STREET SWEEPING	---	PERFORM	---	SWEEP RT. 312 AND RT. 22	N/A
VEGETATIVE ESTABLISHMENT	---	INSPECT	INSPECT	WATERING/RE-SEEDING/RE-MULCHING	PERMANENT

POST-CONSTRUCTION EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE

STRUCTURE	WEEKLY	MONTHLY	ANNUALLY	AFTER RAINFALL	NECESSARY TO MAINTAIN FUNCTION
UNDERGROUND STRUCTURES	---	INSPECT, FOR THE FIRST THREE MONTHS	INSPECT	INSPECT	CLEAN/REPAIR/REPLACE

* REFER TO INSPECTION AND MAINTENANCE REQUIREMENTS IN STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR ADDITIONAL REQUIREMENTS.

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- Tennessee Office: 1705 Division Street, Nashville, Tennessee 37203, Phone: (615) 953-4909
- North Country Office: 375 Bay Road, Queensbury, New York 12804, Phone: (518) 812-0513
- Westchester NY Office: 1 North Broadway, Suite 803, White Plains, New York 10601, Phone: (914) 997-8510

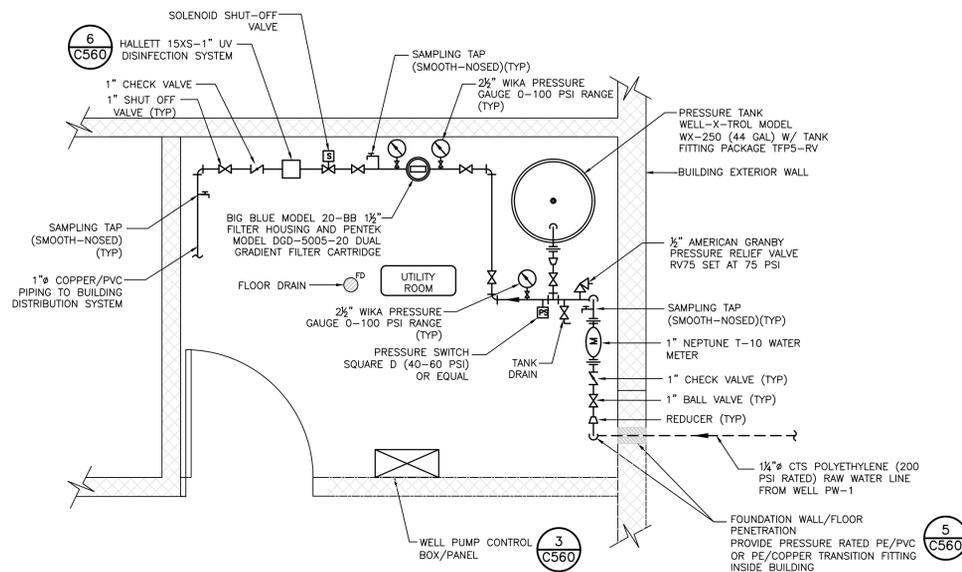
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BATISTA SOUTHEAST DUNKIN'

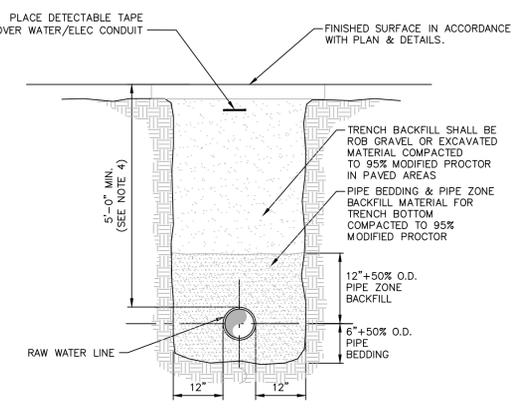
EROSION & SEDIMENT CONTROL DETAILS

TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK

designed RJC checked CPL
 date 12/21/18 scale AS NOTED
 project no. 81625.00
 sheet no. C550

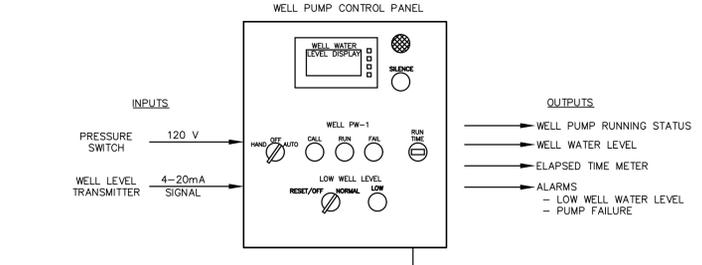


2 WATER TREATMENT ROOM - FLOOR PLAN
SCALE: NOT TO SCALE



- NOTES:**
- PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) SAND OR A MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. BEDDING GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:
- | SIEVE DESIGNATION | % PASSING |
|-------------------|-----------|
| 3/4" | 100% |
| NO. 40 | 70% |
| NO. 200 | 0-10% |
- TRENCH BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:
- | SIEVE DESIGNATION | % PASSING |
|-------------------|-----------|
| 4" | 100% |
| NO. 40 | 70% |
| NO. 200 | 0-10% |
- IN UNPAVED AREAS TRENCH BACKFILL CAN BE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER.
- TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.
 - 5'-0" MIN COVER SHALL BE APPLIED TO WATER LINE.

4 RAW WATER LINE PIPE TRENCH DETAIL (TYPICAL)
SCALE: NOT TO SCALE



3 WATER SYSTEM CONTROL SCHEMATIC
SCALE: NOT TO SCALE

- LEGEND:**
- ⊗ BALL VALVE
 - ⊗ NORMALLY-CLOSED VALVE
 - ⊗ NORMALLY-OPEN VALVE
 - M WATER METER
 - ⊗ CHECK VALVE
 - ⊗ PRESSURE GAUGE W/ MINIATURE BALL VALVE
 - ⊗ PRESSURE SWITCH
 - ⊗ WATER SAMPLING TAP (SMOOTH-NOSED)
 - ⊗ UNION FITTING
 - ⊗ TANK DRAIN
 - ⊗ PRESSURE RELIEF VALVE
 - PIPING (BURIED)
 - PIPING (ABOVE GRADE)

- WATER SYSTEM NOTES:**
- ALL PIPING AND FITTINGS SHALL BE PROPERLY RESTRAINED, SUPPORTED AND BRACED FROM WALLS, CEILING AND FLOOR.
 - PIPING SHALL CONSIST OF EITHER COPPER TYPE L OR PVC SCHEDULE 40.
 - COPPER TUBING SHALL BE TYPE K OR TYPE L CONFORMING TO ASTM B-88. PRESSURE FITTINGS (WROUGHT OR CAST) SHALL CONFORM TO ASME B16.18, B16.22 & B16.24. JOINING OF PIPE AND FITTINGS SHALL BE ACCOMPLISHED USING FLARED, COMPRESSION AND SOLDER-TYPE CONNECTIONS.
 - PVC SCHEDULE 40 PIPE AND FITTINGS SHALL CONFORM TO ASTM D-1785 AND ASTM D-2466. ALL PIPE AND FITTINGS SHALL BE MANUFACTURED FROM VIRGIN RIGID PVC COMPOUND PER ASTM D-1784 AND SHALL CONFORM TO NSF STANDARDS 61 AND 14 FOR USE WITH POTABLE WATER. JOINING OF PVC PIPES AND FITTINGS SHALL BE ACCOMPLISHED THROUGH SOLVENT CONNECTING (ASTM D-2564), THREADED OR FLANGED END CONNECTIONS.
 - BALL VALVE SHALL BE APOLLO FULL PORT BRONZE 77C SERIES OR HAYWARD TRUE UNION PVC TB SERIES OR APPROVED EQUAL.
 - SAMPLING TAPS (SMOOTH-NOSED) SHALL BE 1/2" MIP X PLAN SPOUT ROUGH CAST BRASS HOSE BIB (USA BLUEBOOK STOCK # 45326) OR APPROVED EQUAL.
 - PRESSURE BLADDER STORAGE TANK SHALL BE WELL-X-TROL VERTICAL STAND MODEL WX-250 WITH A NOMINAL CAPACITY OF 44 GALLONS, MAX. WORKING PRESSURE 150 PSI, NSF 61 AS MANUFACTURED BY AMTROL OR APPROVED EQUIVALENT.
 - THE OPERATION OF THE WELL PUMP WILL BE CONTROLLED BY A PRESSURE SWITCH INSTALLED NEXT TO THE PRESSURE BLADDER TANK.
 - THE PRESSURE SWITCH SHOULD BE SET AT AN OPERATING RANGE OF 40 PSI TO 60 PSI.
 - THE INSTALLATION OF THE PUBLIC WATER SUPPLY COMPONENTS SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRIC CODE (NEC).
 - ALL PIPING AND TANK SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651-LATEST EDITION. WELL SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C-654.
 - ALL INDOOR WATER TREATMENT PIPING AND EQUIPMENT SHALL BE SUBJECTED TO A 1-HOUR PRESSURE TEST CONDUCTED AT THE SYSTEM WORKING PRESSURE OF 60 PSI. DURING THE TEST, THE PIPING AND EQUIPMENT SHALL BE VISUALLY INSPECTED FOR WATER LEAKS. ANY LEAKS DETECTED DURING THE COURSE OF THE TEST SHALL BE REPAIRED BY THE CONTRACTOR.

- PIPE MARKINGS:**
- SELF-STICK PIPE MARKERS SHALL BE PROVIDED TO CLEARLY IDENTIFY PIPE FLOW DIRECTION AND FLUID TYPE. PIPE MARKERS SHALL CONFORM TO ANSI A-13.1.
 - THE PIPE MARKERS SHALL CONSIST OF 4-MIL FLEXIBLE VINYL LINER WITH A GLOSSY SURFACE FINISH, A HIGH-TACK ACRYLIC ADHESIVE BACK. SERVICE TEMPERATURE RANGE SHALL BE -20° TO 140° F.

NO LEAD LAW:

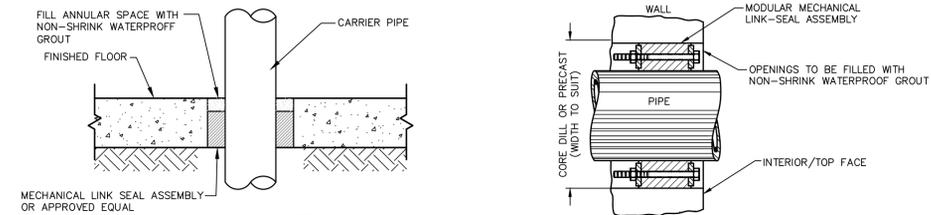
ALL PIPING, PIPE FITTINGS, PLUMBING FITTINGS AND FIXTURES SHALL COMPLY WITH PUBLIC LAW 111-380, COMMONLY REFERRED TO AS "NO LEAD LAW," AMENDING THE SAFE DRINKING WATER ACT OF 1974 AND WHICH CAME INTO EFFECT JANUARY 4, 2014.

WATER SYSTEM START-UP INSTRUCTIONS:

- STARTING SYSTEM
 - THE CONTRACTOR SHALL PROVIDE THREE (3) DAYS NOTIFICATION TO THE OWNER REPRESENTATIVES, PROJECT ENGINEER, BUILDING INSPECTOR, TOWN AND HEALTH DEPARTMENT OFFICIALS PRIOR TO START-UP OF THE WATER SYSTEM.
 - THE CONTRACTOR SHALL ENSURE THAT EACH PIECE OF EQUIPMENT AND COMPONENT OF THE WATER SYSTEM IS READY FOR OPERATION.
 - THE CONTRACTOR SHALL EXECUTE START-UP UNDER THE SUPERVISION OF OWNER REPRESENTATIVES, PROJECT ENGINEER, BUILDING INSPECTOR, TOWN AND HEALTH DEPARTMENT OFFICIALS.
- DEMONSTRATIONS AND INSTRUCTIONS
 - THE CONTRACTOR SHALL DEMONSTRATE OPERATION AND MAINTENANCE OF THE WATER SYSTEM TO OWNER'S WATER SYSTEM OPERATOR TWO (2) WEEKS PRIOR TO DATE OF PROJECT COMPLETION OR ISSUANCE OF CERTIFICATE OF OCCUPANCY.
 - THE CONTRACTOR SHALL DEMONSTRATE START-UP, OPERATION, CONTROL, ADJUSTMENT, TROUBLE-SHOOTING, SERVICING, MAINTENANCE, AND SHUTDOWN OF THE WATER SYSTEM.
- TESTING, ADJUSTING, AND BALANCING
 - THE CONTRACTOR SHALL PROVIDE ALL TESTING, ADJUSTING, AND BALANCING OF WATER SYSTEM.
 - THE CONTRACTOR SHALL CLEAN, FLUSH, PRESSURE LEAK TEST, AND DISINFECT ALL THE PIPING AND EQUIPMENTS ACCORDING TO ACCEPTED STANDARDS AND HEALTH DEPARTMENT/TOWN REQUIREMENTS.
 - THE CONTRACTOR SHALL TAKE WATER SAMPLES AT SEVERAL REPRESENTATIVE LOCATIONS IN THE WATER SYSTEM TO BE BACTERIOLOGICALLY ANALYZED BY A CERTIFIED LABORATORY PRIOR TO SYSTEM BEING PUT INTO SERVICE.
- OPERATION AND MAINTENANCE DATA
 - THE CONTRACTOR SHALL SUBMIT THREE (3) SETS PRIOR TO PROJECT COMPLETION, BOUND IN 8-1/2 X 11 INCH TEXT PAGES, THREE (3) D SIDE RING BINDERS WITH DURABLE PLASTIC COVERS.
 - A BINDER COVER SHALL BE PROVIDED WITH PRINTED TITLE "OPERATION AND MAINTENANCE INSTRUCTIONS" AND TITLE OF PROJECT.
 - THE BINDER CONTENTS SHALL BE INTERNALLY SUBDIVIDED WITH PERMANENT PAGE DIVIDERS, WITH TAB TITLES CLEARLY PRINTED UNDER REINFORCED LAMINATED PLASTIC TABS.
 - AT A MINIMUM THE BINDER SHALL CONTAIN THE FOLLOWING:
 - PART 1: DIRECTORY, LISTING NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF ENGINEER, CONTRACTOR, SUBCONTRACTORS, AND MAJOR EQUIPMENT SUPPLIERS.
 - PART 2: COPY OF PLANS WITH ANNOTATED CHANGES IF ANY, COPY OF ALL APPROVED SHOP DRAWINGS, INSTALLATION MANUALS, OPERATION AND MAINTENANCE MANUALS.
 - PART 3: PROJECT DOCUMENTS, MANUFACTURER'S AND SUPPLIER'S WARRANTIES AND CERTIFICATES.

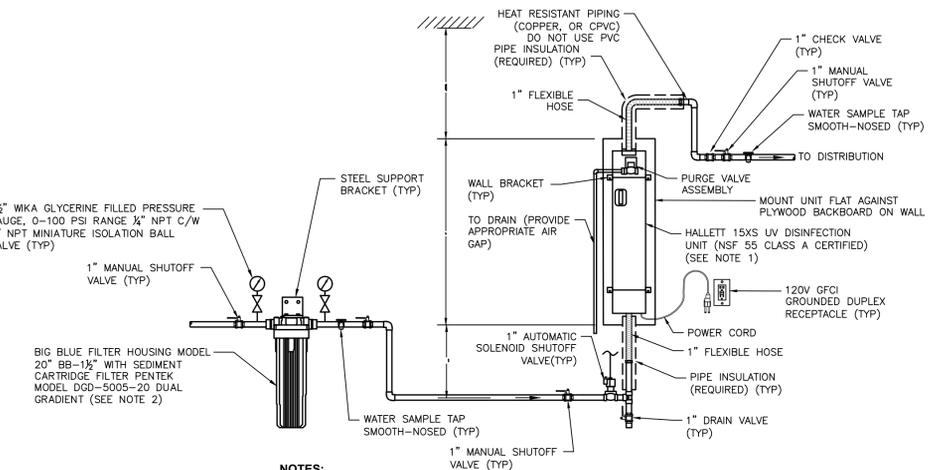
WATER SYSTEM TESTING:

- FOLLOWING DISINFECTION AND THE INITIAL START-UP OF THE WATER SUPPLY AND TREATMENT SYSTEM, THE CONTRACTOR SHALL COLLECT WATER SAMPLES AT A POINT AFTER TREATMENT (ENTRY POINT) AND SUBMIT SAMPLES TO A NYS ELAP CERTIFIED LABORATORY FOR ANALYSIS.
- TREATED WATER INTENDED FOR DOMESTIC USE SHALL BE TESTED FOR THE FOLLOWING PARAMETERS:
 - PH
 - TURBIDITY
 - TOTAL COLIFORM
 - E. COLI
 - IRON
 - MANGANESE
 - HARDNESS (AS CaCO3)
- IF THE TREATED WATER IS FOUND TO TEST POSITIVE FOR THE PRESENCE OF COLIFORM BACTERIA, THE CONTRACTOR SHALL IMMEDIATELY COLLECT ANOTHER SAMPLE AFTER EXTENSIVE FLUSHING OF THE WATER SYSTEM AND RE-TEST FOR COLIFORM. SHOULD THIS SAMPLE ALSO TEST POSITIVE FOR COLIFORM BACTERIA, THE CONTRACTOR SHALL RE-DISINFECT THE ENTIRE WATER SYSTEM PER AWWA STANDARDS AND RE-TEST AGAIN.



5 TYPICAL FLOOR/WALL PENETRATION DETAIL
SCALE: NOT TO SCALE

- NOTES:**
- MODULAR SEALS SHALL BE LINK-SEAL S-316 SERIES, OR APPROVED EQUIVALENT. HOLE SIZE SHALL BE PER LINKSEAL RECOMMENDATION.
 - DETAIL APPLICABLE FOR HORIZONTAL AND VERTICAL INSTALLATIONS.



6 UV SYSTEM TYPICAL INSTALLATION DETAIL
SCALE: NOT TO SCALE

- NOTES:**
- PROVIDE TWO (2) SPARE UV LIGHT BULBS FOR STORAGE ON SITE
 - PROVIDE FOUR (4) SPARE SEDIMENT FILTER CARTRIDGES AND SPANNER WRENCH

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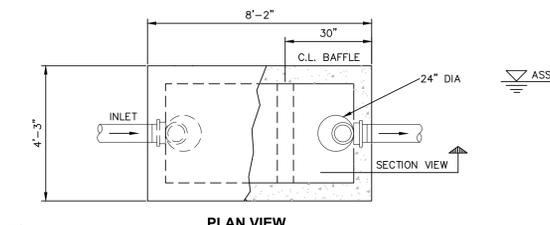
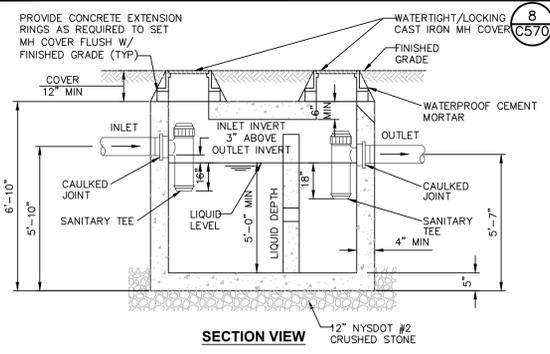
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BATISTA SOUTHEAST DUNKIN'

WATER SYSTEM DETAILS

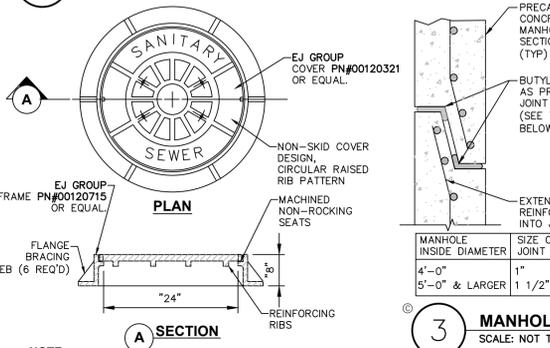
TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK

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RJC	CPL
date	scale
12/21/18	AS NOTED
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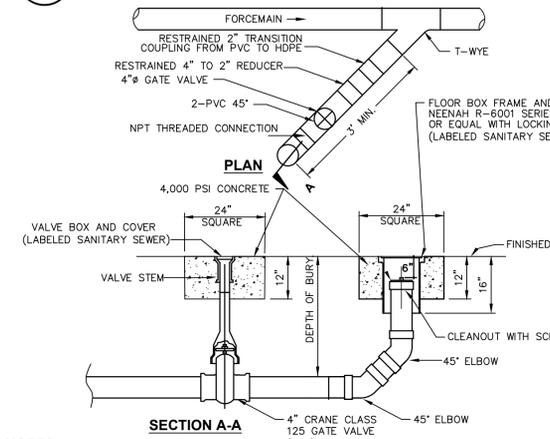
NOTES:
 1. SEPTIC TANKS SHALL BE AS MANUFACTURED BY THE FORT MILLER CO. OR APPROVED EQUIVALENT.
 2. DIMENSIONS SHOWN ARE PER STRUCTURES MANUFACTURED BY FORT MILLER CO.
 3. SEPTIC TANKS SHALL BE DESIGNED FOR AN H-20 LOADING AT MINIMUM.

2 1000 GAL HEAVY DUTY CONCRETE SEPTIC TANK
 SCALE: NOT TO SCALE



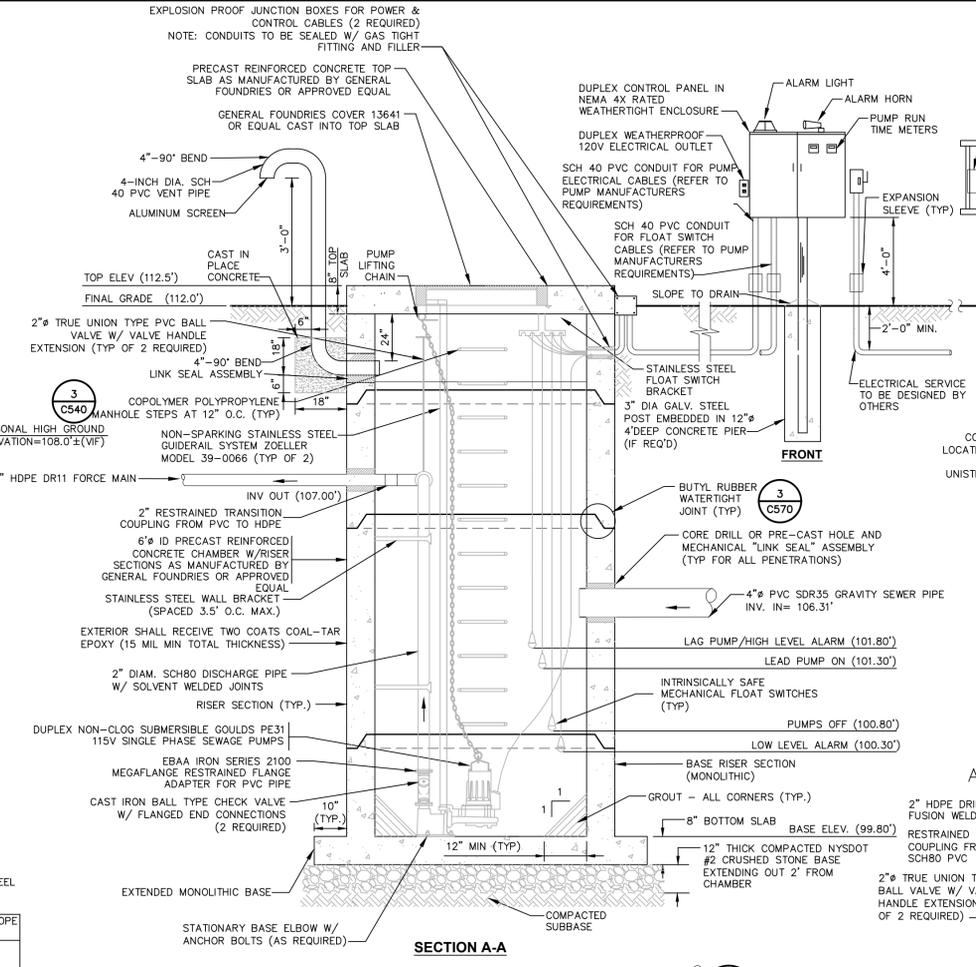
NOTE:
 T. FRAME AND COVER SHALL BE DESIGNED FOR HS20-44 VEHICLE LOADING AND 25% IMPACT.

8 HEAVY DUTY STANDARD CAST IRON MH COVER
 SCALE: NOT TO SCALE



NOTES:
 1. ALL SANITARY SEWER PIPE FOR ESTABLISHING CLEAN OUT BEYOND TRANSITION COUPLING SHALL BE PVC SCH80.
 2. CONTRACTOR TO PROVIDE CLEANOUTS AT INTERVALS OF APPROXIMATELY 300 FEET AND AT MAJOR CHANGES IN DIRECTION.
 3. THE CLEANOUTS SHALL INCLUDE AN ISOLATING VALVE, AND A CAPPED Y-BRANCH FITTING.

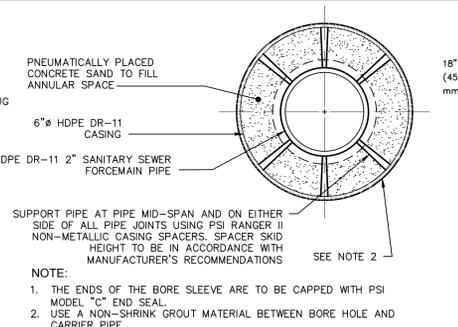
7 SANITARY FORCEMAIN CLEANOUT DETAIL
 SCALE: NOT TO SCALE



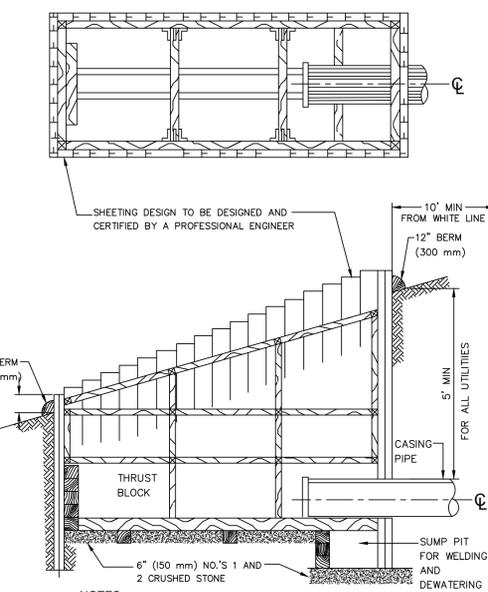
1 SANITARY PUMP STATION DETAIL
 SCALE: NOT TO SCALE

CARRIER & CASING PIPE DATA

ITEM	CARRIER PIPE	CASING PIPE
CONTENTS	SEWER	CARRIER PIPE
NORMAL OPERATING PRESSURE	250 PSI	NONE
NOMINAL SIZE OF PIPE	2"	6"
BELL O.D.	2.94"	N/A
PIPE OUTSIDE DIAMETER	2.375"	6.625"
PIPE INSIDE DIAMETER	2.08"	< 6.25"
WALL THICKNESS	0.33"	> 0.188"
WEIGHT PER FOOT	0.66 LBS	20+ LBS
MATERIAL	HDPE	HDPE
PROCESS OF MANUFACTURE	N/A	N/A
SPECIFICATION	ASTM D3035	ASTM D3035
GRADE OR CLASS	DRILL	DRILL
TEST PRESSURE	HYDROSTATIC PRESSURE TEST(FIELD)	N/A
TYPE OF JOINT	FUSION WELDED	FUSION WELDED
TYPE OF COATING	NONE	NONE
DETAILS OF CATHODIC PROTECTION	NONE	NONE
DETAILS OF SEAL OR PROTECTION AT ENDS OF CASING	N/A	SEALED WITH PSI END SEALS MODEL "C"
METHOD OF INSTALLATION	PUSHED THRU	BORED



4 SEWER FORCEMAIN CASED CROSSING TYPICAL SECTION
 SCALE: NOT TO SCALE

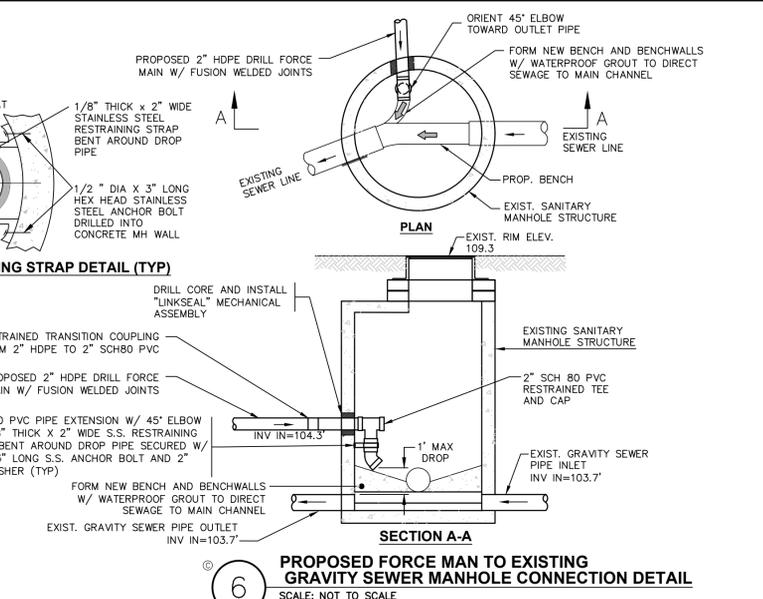


NOTES:
 1. ALL DIMENSIONS AND MATERIAL SIZES MUST BE DESIGNED AND CERTIFIED BY A PROFESSIONAL ENGINEER.
 2. 12" (300 mm) EARTH BERM TO BE PLACED AROUND SHEETING.

5 BORING PIT DETAIL
 SCALE: NOT TO SCALE

PUMP STATION NOTES:

- ALL PRE CAST CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE A.S.T.M. STANDARDS. CONCRETE TO TEST 4000 PSI AT 28 DAYS.
- CONTRACTOR SHALL SUBMIT PRE CAST CONCRETE CHAMBER SHOP DRAWINGS INDICATING PERTINENT DIMENSIONING, REINFORCEMENT SIZES, SPACING, LOCATIONS AND QUANTITIES. CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS CREATED BY AN HS20-44 TRUCK PLUS 25% IMPACT AS DEFINED IN THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) DESIGN STANDARDS.
- AN ALUMINIUM WARNING PLATE SHALL BE RIVETED OR OTHERWISE PERMANENTLY ATTACHED TO THE CHAMBER. THE PLATE SHALL BE A MINIMUM OF 12" X 12" AND SHALL BE ENGRAVED WITH THE FOLLOWING LANGUAGE: "WARNING - CONFINED SPACE - ENTRY PROHIBITED WITHOUT AUTHORIZATION".
- ALL MOUNTING HARDWARE INCLUDING BOLTS, NUTS, ANGLE BRACKETS AND OTHER MISCELLANEOUS ITEMS LOCATED WITHIN THE PUMP STATION SHALL BE OF NON-CORROSIVE CONSTRUCTION (I.E.-STAINLESS STEEL, ALUM., GALV.).
- ALL INSTALLATION SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LATEST EDITION.
- PROVIDE ADDITIONAL CONDUITS FOR CONTROL WIRING AS PER MANUFACTURER'S RECOMMENDATIONS. ALL CONDUITS SHALL BE GAS TIGHT SEALED.
- MANHOLE STEPS SHALL BE ORIENTED SUCH THAT ACCESS TO THE PUMP STATION WILL NOT BE RESTRICTED. STEPS SHALL BE COPOLYMER POLYPROPYLENE MANHOLE STEPS 12" O.C.
- PROJECT ENGINEER AND OWNER'S REPRESENTATIVE SHALL BE NOTIFIED 72-HOURS PRIOR TO START UP AND TESTING OF THE STATION.
- THE PUMP STATION SHALL BE PROVIDED WITH DUAL SUBMERSIBLE NON-CLOG SEWER PUMPS INCLUDING DUPLEX CONTROL PANEL. PUMPS SHALL OPERATE ALTERNATIVELY IN A LEAD-LAG SEQUENCE ON EVERY PUMP CYCLE.
- THE CONTROL PANEL SHALL INCLUDE THE FOLLOWING FEATURES AND ACCESSORIES:
 - NEMA 4X AND UL RATED ENCLOSURE W/ LOCKABLE HATCH
 - INTRINSICALLY SAFE RELAYS
 - HAND-OFF-AUTO (HOA) TOGGLE SWITCH FOR EACH PUMP
 - LEAD/LAG ALTERNATING CIRCUIT
 - INTRINSICALLY SAFE MERCURY FLOAT SWITCHES
 - TOP MOUNTED ALARM LIGHT
 - ALARM HORN WITH SILENCE SWITCH - MANUAL RESET
 - AUXILIARY PILOT CONTACTS FOR ALARMS
 - CIRCUIT BREAKER PUMP DISCONNECT
 - GREEN RUN PILOT LIGHT FOR EACH PUMP
 - SEAL FAIL INDICATOR LIGHTS
 - THERMAL OVERLOAD PROTECTION
- IN ADDITION THE CONTROL PANEL SHALL INCLUDE INDIVIDUAL PUMP RUN TIME METERS AND ONE WEATHER PROOF 120V DUAL GFI RECEPTACLE OUTLET.
- AN AUTOMATIC DILAER SHALL BE PROVIDED AND THE FOLLOWING ALARMS SHALL BE RELAYED TO A 24-HOUR ON CALL SERVICE:
 - PUMP FAILURE & MALFUNCTION/START LAG PUMP
 - HIGH WATER/START LAG PUMP
 - LOW WATER LEVEL
 - COMMUNICATION LINK FAILURE



6 PROPOSED FORCE MAN TO EXISTING GRAVITY SEWER MANHOLE CONNECTION DETAIL
 SCALE: NOT TO SCALE

PUMP STATION START-UP INSTRUCTIONS:

- STARTING SYSTEM
 - THE CONTRACTOR SHALL PROVIDE THREE (3) DAYS NOTIFICATION TO THE OWNER REPRESENTATIVES, PROJECT ENGINEER, AND BUILDING INSPECTOR, PRIOR TO START-UP OF THE PUMP STATION.
 - THE CONTRACTOR SHALL ENSURE THAT EACH PIECE OF EQUIPMENT AND COMPONENT OF THE SYSTEM IS READY FOR OPERATION.
 - THE CONTRACTOR SHALL EXECUTE START-UP UNDER THE SUPERVISION OF OWNER REPRESENTATIVES, PROJECT ENGINEER, BUILDING INSPECTOR, AND MUNICIPALITY HAVING JURISDICTION.
 - THE CONTRACTOR SHALL SUBMIT A WRITTEN REPORT INDICATING THAT EACH PIECE OF EQUIPMENT AND COMPONENT OF THE SYSTEM HAS BEEN PROPERLY INSTALLED AND IS FUNCTIONING CORRECTLY.
- DEMONSTRATIONS AND INSTRUCTIONS
 - THE CONTRACTOR SHALL DEMONSTRATE OPERATION AND MAINTENANCE OF THE SYSTEM TO OWNER TWO (2) WEEKS PRIOR TO DATE OF PROJECT COMPLETION OR ISSUANCE OF CERTIFICATE OF OCCUPANCY.
 - THE CONTRACTOR SHALL DEMONSTRATE START-UP, OPERATION, CONTROL, ADJUSTMENT, TROUBLE-SHOOTING, SERVICING, MAINTENANCE, AND SHUTDOWN OF EACH ITEM OF EQUIPMENT.
- TESTING, ADJUSTING, AND BALANCING
 - THE CONTRACTOR SHALL PROVIDE ALL TESTING, ADJUSTING, AND BALANCING OF SYSTEM.
 - THE CONTRACTOR SHALL CLEAN, FLUSH, PRESSURE LEAK TEST ALL THE PIPING AND EQUIPMENT ACCORDING TO ACCEPTED STANDARDS.
 - OPERATION AND MAINTENANCE DATA
 - THE CONTRACTOR SHALL SUBMIT THREE (3) SETS PRIOR TO PROJECT COMPLETION, BOUND IN 8-1/2 X 11 INCH TEXT PAGES, THREE (3) D SIDE RING BINDERS WITH DURABLE PLASTIC COVERS.
 - A BINDER COVER SHALL BE INTERNALLY SUBDIVIDED WITH PERMANENT PAGE DIVIDERS, LOGICALLY ORGANIZED, WITH TAB TITLES CLEARLY PRINTED UNDER REINFORCED LAMINATED PLASTIC TABS.
 - THE BINDER CONTENTS SHALL BE INTERNALLY SUBDIVIDED WITH PERMANENT PAGE DIVIDERS, LOGICALLY ORGANIZED, WITH TAB TITLES CLEARLY PRINTED UNDER REINFORCED LAMINATED PLASTIC TABS.
 - AS A MINIMUM THE BINDER SHALL CONTAIN THE FOLLOWING:
 - PART 1: DIRECTORY, LISTING NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF ENGINEER, CONTRACTOR, SUBCONTRACTORS, AND MAJOR EQUIPMENT SUPPLIERS.
 - PART 2: COPY OF PLANS WITH ANNOTATED CHANGES IF ANY, SPECIFICATIONS AND ENGINEERING REPORT, COPY OF ALL APPROVED SHOP DRAWINGS, INSTALLATION MANUALS, OPERATION AND MAINTENANCE MANUALS, ARRANGED BY SYSTEM'S COMPONENTS.
 - PART 3: PROJECT DOCUMENTS, MANUFACTURER'S AND SUPPLIER'S WARRANTIES AND CERTIFICATES.

PUMP STATION WET WELL TESTING:

- PUMP STATION WET WELL SHALL BE TESTED FOR LEAKAGE AND ALL LEAKS SHALL BE REPAIRED IN A MANNER SUBJECT TO THE ENGINEER'S APPROVAL. A HYDROSTATIC SHALL BE PERFORMED IN CONFORMANCE WITH THE FOLLOWING REQUIREMENTS.
 - HYDROSTATIC TESTING
 - UNLESS OTHERWISE APPROVED, CONDUCT ALL TESTING IN THE PRESENCE OF THE ENGINEER.
 - NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF TESTING.
 - THE STRUCTURE SHALL BE COMPLETELY PLUGGED AND FILLED WITH WATER AND ALLOWED TO STAND FOR TWO (2) HOURS PRIOR TO ANY READING IN ORDER TO PERMIT ABSORPTION BY THE WET WELL STRUCTURE.
 - AFTER TWO (2) HOURS, A READING SHALL BE TAKEN AND THE STRUCTURE ALLOWED TO STAND FOR 24 HOURS.
 - THE DROP IN WATER LEVEL AFTER 24 HOURS SHALL BE NOTED.
 - LEAKAGE IN THE WET WELL SHALL NOT EXCEED 0.6 GALLONS/FT MANHOLE DIAMETER/FT OF MANHOLE DEPTH.
 - WET WELL FAILING THE TEST SHALL BE REPAIRED AND RETESTED TO THE SATISFACTION OF THE ENGINEER.
 - THE CONTRACTOR SHALL COORDINATE AND BEAR ALL COSTS FOR PROVISION AND DISPOSAL OF WATER NECESSARY FOR THE LEAK TESTING OF THE WET WELL.

PUMP STATION DATA:

PUMP STATION:
 FORCE MAIN HIGHEST ELEVATION = 105.0'
 LOW WATER ELEVATION = 98.30'
 STATIC HEAD, H_s = 6.20'
 FM LENGTH = 553'
 SIZE OF FORCE MAIN = 2"

PUMPS:
 MANUFACTURER'S MODEL NUMBER = GOULDS MODEL PE31 W/
 1.5" DIAM. NPT VERTICAL DISCHARGE
 PUMPING RATE = 25.9 GPM @ 16.5' THD
 DISCHARGING PIPE = 1.5"
 SOLIDS HANDLING CAPACITY = 0.5"

MOTORS:
 MAX MOTOR HORSEPOWER = 0.33 HP
 VOLTAGE = 115V
 PHASE = 1Ø
 RPM = 3000

WET WELL DATA:
 DIAMETER OF WET WELL = 6"
 VOLUME WATER (GALL. CAPACITY)
 953.0 @ 4.51 BETWEEN HIGH WATER ALARM & PS INLET
 1,353.5 @ 6.40 BETWEEN LEAD PUMP ON & BUILDING INVERT
 (ADDITIONAL STORAGE BEYOND OPERATING RANGE)

DRAWDOWN (DESIGN AVERAGE FLOW) = 4.16 MIN
CYCLE TIME (DESIGN MAXIMUM FLOW) = 60 MIN

NOTES:
 1. ELECTRICAL SERVICE DESIGN FOR THE PUMP STATION BY OTHERS.

Dig Safely. New York.
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 Wait The Required Time
 Confirm Utility Response
 Respect The Marks
 Dig With Care
 800-962-7962
 www.digsafelynewyork.com

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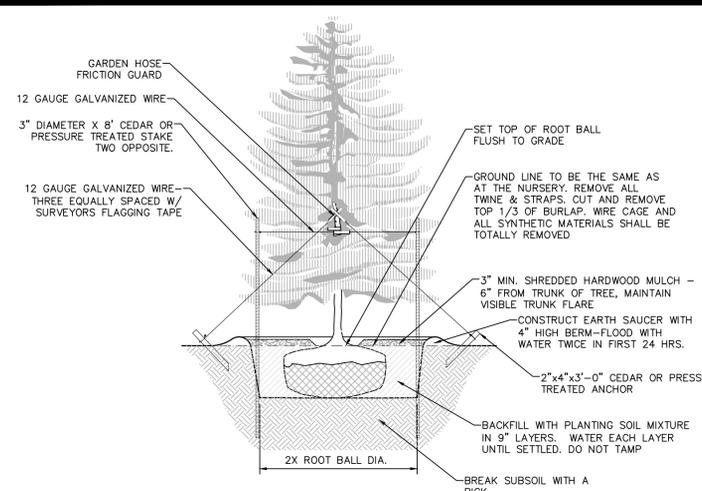
rev.	date	description

BATISTA SOUTHEAST DUNKIN'

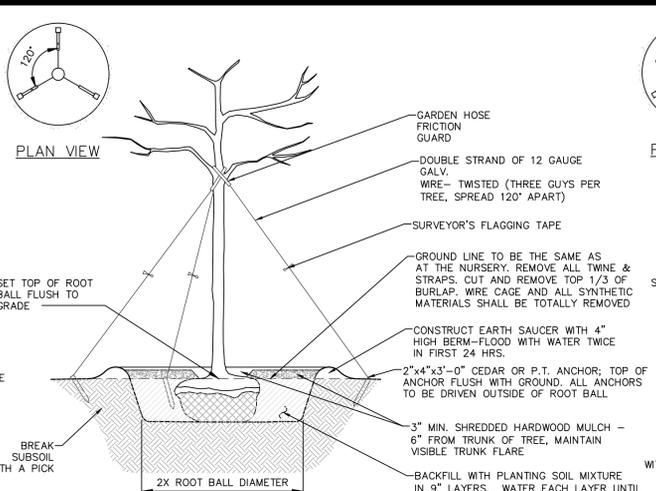
SANITARY SEWER SYSTEM DETAILS

TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK

designed	checked
RJC	CPL
date	scale
12/21/18	AS NOTED
project no.	81625.00
sheet no.	C570

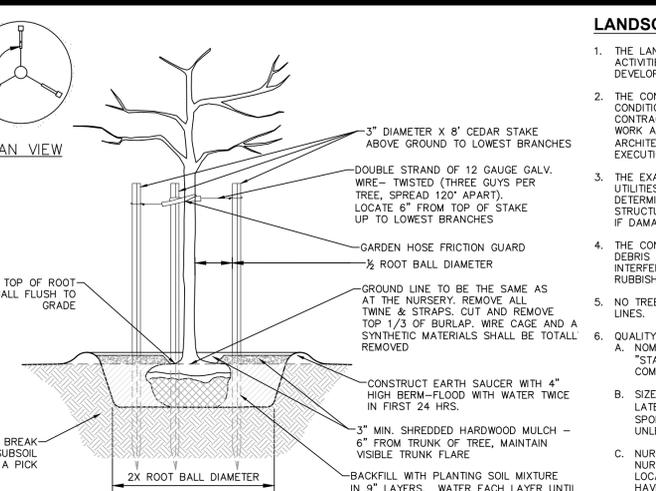


NOTES:
 1. SPRAY WITH ANTIDESICCANT IN ACCORDANCE WITH MFG.'S RECOMMENDATIONS.
 2. TREES LESS THAN 3\"/>



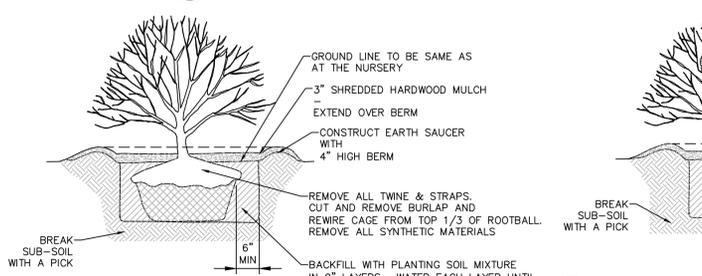
NOTES:
 STAKES SHALL BE REMOVED AT THE END OF THE FIRST GROWING SEASON AFTER PLANTING

**PLANTING AND GUYING DETAILS-FOR TREES 3\"/>
 SCALE: NOT TO SCALE**



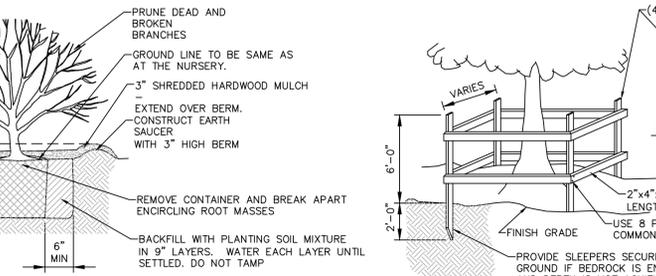
NOTES:
 STAKES SHALL BE REMOVED AT THE END OF THE FIRST GROWING SEASON AFTER PLANTING

**PLANTING AND GUYING DETAILS-FOR TREES SMALLER THAN 3\"/>
 SCALE: NOT TO SCALE**



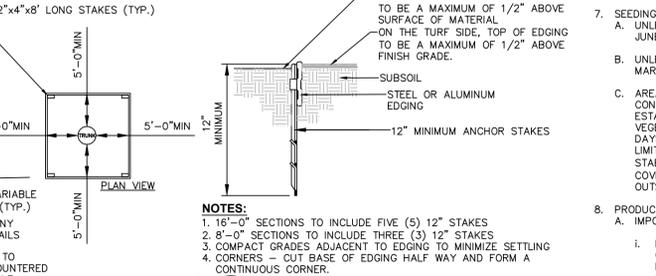
NOTE:
 SPRAY WITH ANTIDESICCANT IN ACCORDANCE WITH MFG.'S RECOMMENDATIONS IF FOLIAGE IS PRESENT.

SHRUB PLANTING DETAIL FOR ALL SHRUBS BALLED AND BURLAPPED
 SCALE: NOT TO SCALE



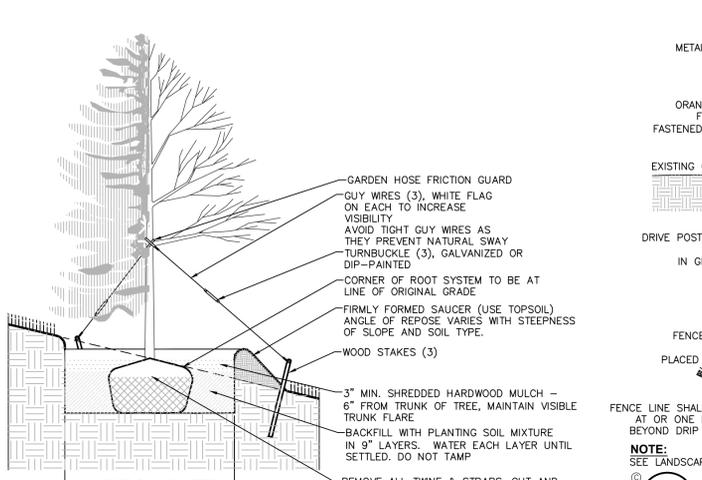
NOTE:
 SPRAY WITH ANTI DESICCANT IN ACCORDANCE WITH MFG.'S RECOMMENDATIONS IF FOLIAGE IS PRESENT.

SHRUB PLANTING DETAIL FOR CONTAINERIZED SHRUBS
 SCALE: NOT TO SCALE



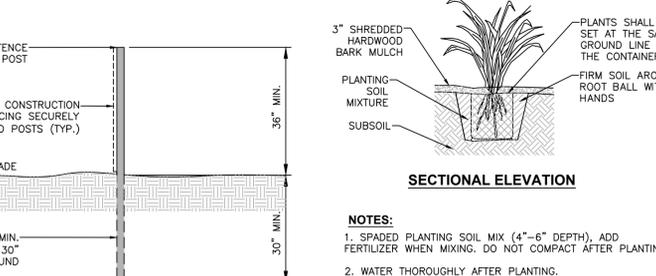
NOTES:
 1. 16\"/>

LANDSCAPE BED EDGING
 SCALE: NOT TO SCALE



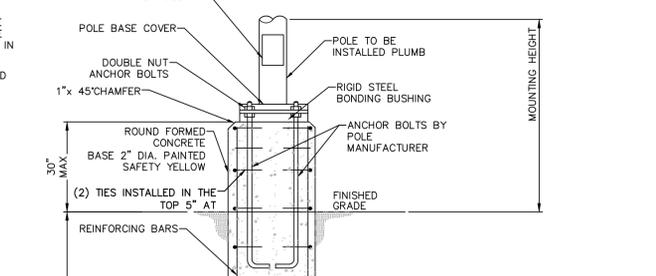
NOTE:
 DETAIL SHALL BE UTILIZED FOR DECIDUOUS AND CONIFEROUS TREE PLANTING ON SLOPE.

TREE PLANTING ON SLOPE
 SCALE: NOT TO SCALE



NOTE:
 SEE LANDSCAPING PLAN FOR ADDITIONAL TREE PROTECTION NOTES.

TREE PROTECTION FENCING DETAIL
 SCALE: NOT TO SCALE



NOTES:
 1. SPADED PLANTING SOIL MIX (4\"/>

CONTAINERIZED PERENNIAL PLANTING
 SCALE: NOT TO SCALE

LANDSCAPING NOTES:

- THE LANDSCAPE CONTRACTOR SHALL CAREFULLY COORDINATE CONSTRUCTION ACTIVITIES WITH THAT OF THE EARTHWORK CONTRACTOR AND OTHER SITE DEVELOPMENT.
- THE CONTRACTOR SHALL VERIFY DRAWING DIMENSIONS WITH ACTUAL FIELD CONDITIONS AND INSPECT RELATED WORK AND ADJACENT SURFACES. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL FINISH GRADES WITHIN THE WORK AREA. THE CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT/ENGINEER AND OWNER ALL CONDITIONS WHICH PREVENT PROPER EXECUTION OF THIS WORK.
- THE EXACT LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND UNDERGROUND UTILITIES, WHICH MAY NOT BE INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITY SERVICES AND IS RESPONSIBLE FOR THEIR REPLACEMENT IF DAMAGED.
- THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM RUBBISH AND ALL DEBRIS AT ALL TIMES AND SHALL ARRANGE MATERIAL STORAGE SO AS NOT TO INTERFERE WITH THE OPERATION OF THE PROJECT. ALL UNUSED MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED FROM THE SITE.
- NO TREES OR SHRUBS SHALL BE PLANTED ON EXISTING OR PROPOSED UTILITY LINES.
- QUALITY ASSURANCE:
 - NOMENCLATURE: PLANT NAMES SHALL CONFORM TO THE LATEST EDITION OF "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE.
 - SIZE AND GRADING: PLANT SIZES AND GRADING SHALL CONFORM TO THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AS SPONSORED BY THE AMERICAN ASSOCIATION OF NURSEYMEN, INC (AAN), UNLESS OTHERWISE SPECIFIED.
 - NURSERY SOURCE: OBTAIN FRESHLY DUG, HEALTHY, VIGOROUS PLANTS NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 2 YEARS. PLANTS SHALL HAVE BEEN LINED OUT IN ROWS, ANNUALLY CULTIVATED, SPRAYED, PRUNED AND FERTILIZED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. ALL PLANTS SHALL HAVE BEEN TRANSPORTED OR ROOT PRUNED AT LEAST ONCE IN THE PAST 3 YEARS. BALLED AND BURLAPPED PLANTS MUST COME FROM SOIL WHICH WILL HOLD A FIRM ROOT BALL. HEELED IN PLANTS AND PLANTS FROM COLD STORAGE ARE NOT ACCEPTABLE.
 - SUBSTITUTIONS: DO NOT MAKE SUBSTITUTIONS OF TREES AND/OR SHRUB MATERIALS. IF REQUIRED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY AND PROPOSAL FOR USE OF EQUIVALENT MATERIAL. WHEN AUTHORIZED, ADJUSTMENTS OF CONTRACT AMOUNT (IF ANY) WILL BE MADE BY CHANGE ORDER.
- SEEDING & PLANTING SEASONS AND TIMING CONDITIONS:
 - UNLESS OTHERWISE DIRECTED IN WRITING, SEED LAWS FROM MARCH 15 TO JUNE 15, AND FROM AUGUST 15 TO OCTOBER 15.
 - UNLESS OTHERWISE DIRECTED IN WRITING PLANT TREES AND SHRUBS FROM MARCH 15 TO JUNE 1, AND FROM AUGUST 15 TO OCTOBER 30.
 - AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE LAWNS OR PLANTINGS ARE TO BE ESTABLISHED AND WORK IS COMPLETE, SHALL BE RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. WORK SHALL BE WITHIN THE SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER (TOPSOIL AND TEMPORARY COVER SEED MIX) WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
- PRODUCTS:
 - IMPORTED TOPSOIL: PROVIDE TOPSOIL CONFORMING TO THE FOLLOWING:
 - LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADIMTURE OF SUBSOIL MATERIAL AND FREE OF DENSE MATERIAL, HARDPAN, CLAY, STONES, SOD OR OTHER OBJECTIONABLE MATERIAL.
 - CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLING PASSING A 1/4\"/>
 - CONTAINING A PH VALUE WITHIN THE RANGE OF 6.5 TO 7.5 ON THAT PORTION OF THE SAMPLE WHICH PASSES A 1/4\"/>
 - CONTAINING THE FOLLOWING WASHED GRADATIONS:

SIEVE DESIGNATION	% PASSING
1\"/>	

ii. SEED MIXTURE:
 PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS. PROVIDE THE FOLLOWING MIXTURES:

i. LAWN SEED MIX

SUN AND PARTIAL SHADE:			
AMOUNT BY WEIGHT	SPECIES OR VARIETY	MINIMUM % PURITY	GERMINATION
50%	KENTUCKY BLUE GRASS*	95%	80%
20%	PERENNIAL RYE	98%	90%
30%	CREeping RED FESCUE	97%	85%
100%			

*MINIMUM 2 (EQUAL PROPORTIONS) VARIETIES AS LISTED IN CORNELL RECOMMENDATIONS FOR TURFGRASS.

SHADE:

AMOUNT BY WEIGHT	SPECIES OR VARIETY	MINIMUM % PURITY	GERMINATION
25%	KENTUCKY BLUE GRASS**	95%	80%
20%	PERENNIAL RYE	98%	90%
35%	CREeping RED FESCUE	97%	85%
20%	CHEWINGS RED FESCUE	97%	85%
100%			

**SHADE TOLERANT VARIETY

ii. TEMPORARY COVER SEED MIX

AMOUNT BY WEIGHT	SPECIES OR VARIETY	MINIMUM % PURITY	GERMINATION
100%	ANNUAL RYEGRASS	98%	90%

C. LIME: NATURAL LIMESTONE CONTAINING AT LEAST 85% OF TOTAL CARBONATES, GROUND TO SUCH FINENESS THAT AT LEAST 90% PASSES A 10-MESH SIEVE, AND AT LEAST 50% PASSES A 100-MESH SIEVE.

D. FERTILIZER:

- FOR STARTER FERTILIZING: COMMERCIAL STARTER FERTILIZER, GRANULAR, NONBURNING PRODUCT CONTAINING 5% NITROGEN, 10% AVAILABLE PHOSPHOROUS, AND 5% WATER SOLUBLE POTASH (5-10-5).
- FOR FINAL FERTILIZING: IF APPLIED IN SPRING SEASON, SHALL BE A SLOW RELEASE COMMERCIAL FERTILIZER, GRANULAR, WITH 3-1-2 NPK. IF APPLIED IN FALL SEASON, SHALL BE AS SPECIFIED IN (8.D.I) ABOVE.

E. TREES, SHRUBS, GROUND COVERS, PERENNIALS, ANNUALS:

- PLANTING SOIL MIXTURE: SHALL BE PREMIXED IN BULK, AND CONTAIN THE FOLLOWING BY VOLUME:
 - 30 PARTS TOPSOIL
 - 10 PARTS PEAT
 - 1 PART BONE MEAL
- PEAT: BROWN TO BLACK IN COLOR, WEED AND SEED FREE. DRIED SPHAGNUM PEAT, CONTAINING NOT MORE THAN 9% MINERAL ON A DRY BASIS AND CONFORMING TO MSYDOT 713-15.
- BONE MEAL: FINELY GROUND, RAW, MINIMUM 4% NITROGEN AND 20% PHOSPHORIC ACID. IT SHALL BE DELIVERED IN SEALED BAGS SHOWING THE MANUFACTURER'S GUARANTEED ANALYSIS.

F. STAKES: 8 FEET LONG, 3 INCH DIA. CEDAR OR P.T. WOOD STAKES.

G. HOSE: NEW, 2-PLY GARDEN HOSE NOT LESS THAN 1/2 INCH IN DIAMETER.

H. WEED CONTROL FABRIC: SOIL CHECK AS MANUFACTURED BY BRIGHTON BYPRODUCTS CO, INC, NEW BRIGHTON, PA; MIRASCAPPE OR MIRAFI GEOSYNTHETIC PRODUCTS, NORCROSS, PA, OR APPROVED EQUIVALENT.

I. MULCH:

- LAWN AREAS: OAT OR WHEAT STRAW, FREE OF WEEDS. AN ALTERNATIVE IS WOOD FIBER CELLULOSE IF HYDROSEEDING IS USED.
- PLANT BED AREAS: CEDAR OR SHREDED HARDWOOD BARK, UNCOLORED. NO PIECES OVER 2 INCHES GREATEST DIMENSION. FREE FROM SAWDUST.

EXECUTION:

- LANDSCAPE WORK SHALL BE UNDERTAKEN AS SOON AS SITE AREAS ARE AVAILABLE.
- TOPSOIL SHALL BE SPREAD NO LESS THAN 4\"/>



NOTE:
 GROUND COVERS SHOULD BE POT OR CONTAINER GROWN.

GROUND COVER/ANNUAL PLUG PLANTING
 SCALE: NOT TO SCALE



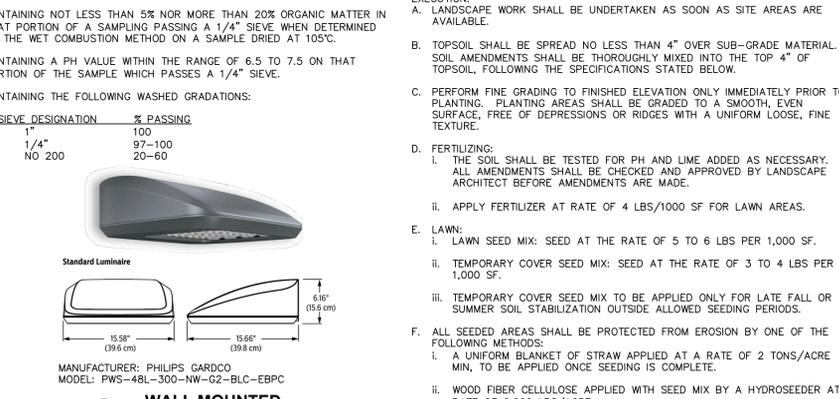
NOTE:
 MANUFACTURER: PHILIPS GARDCO
 MODEL: P21-2-90LA-NW-EHSS, P21-BLC-90LA-NW-EHSS

WALL MOUNTED LIGHT FIXTURE DETAIL
 SCALE: NOT TO SCALE



NOTE:
 1. CONDUITS AND GROUNDING SHALL BE AS REQUIRED BY THE ELECTRICAL DESIGN.
 2. ALL CONCRETE SHALL BE 4,500 PSI @ 28 DAYS.
 3. ALL REINFORCING STEEL SHALL BE GRADE 60.
 4. DESIGNED FOR 90 MPH WIND WITH FIXTURE AREA OF 13 SF.
 5. FOUNDATION DIAMETER AND REINFORCING CIRCLE SHALL BE COORDINATED WITH ANCHOR BOLT LIMITS.
 6. FOUNDATIONS SHALL BE AUGERED INTO UNDISTURBED NATURAL SOIL OR COMPACTED FILL PER SITE GRADATIONS.

LOT LIGHTING CONCRETE BASE
 SCALE: NOT TO SCALE



NOTE:
 MANUFACTURER: PHILIPS GARDCO
 MODEL: P21-2-90LA-NW-EHSS, P21-BLC-90LA-NW-EHSS

LIGHT FIXTURE DETAIL
 SCALE: NOT TO SCALE

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BATISTA SOUTHEAST DUNKIN'

LIGHTING & LANDSCAPING DETAILS

TOWN OF SOUTHEAST, PUTNAM COUNTY, NEW YORK

rev.	date	description

designed	checked
RJC	CPL
date	scale
12/21/18	AS NOTED
project no.	81625.00
sheet no.	C580