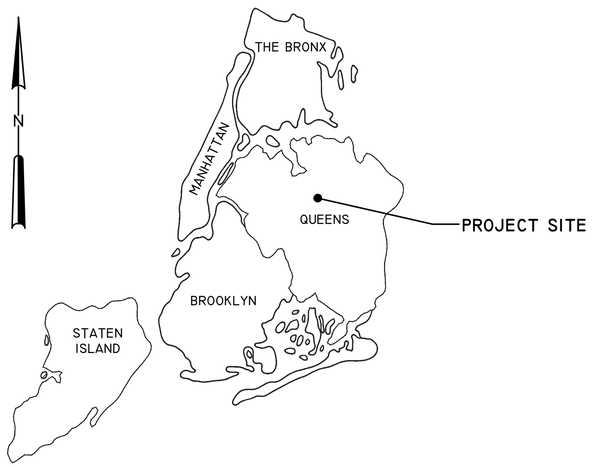
NYC Environmental Protection

NEW YORK CITY ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS

NYC Parks

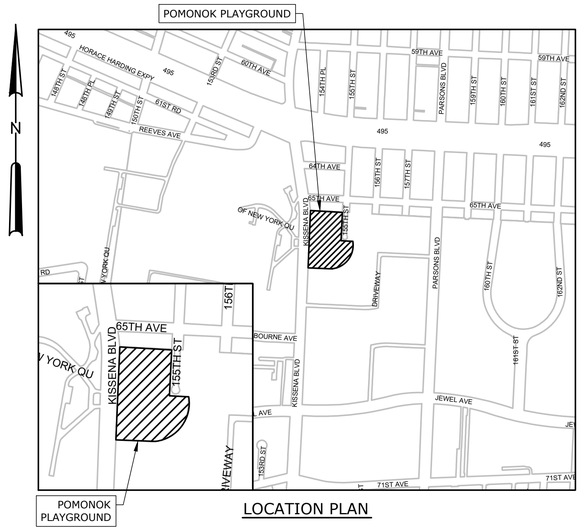


ON-SITE GREEN INFRASTRUCTURE
FLUSHING BAY CSO TRIBUTARY AREA
OUTFALL TI-010
DEP CAPITAL CONTRACT NO. GQ-P-POMO

Q329 - POMONOK PLAYGROUND
BBL 4067920099

QUEENS, NY

BID SUBMISSION
NOVEMBER 2026



LOCATION PLAN

SHEET LIST	
Sheet Number	Sheet Title
G001	COVER SHEET
S001	TOPOGRAPHIC SURVEY PLAN
S002	TOPOGRAPHIC SURVEY PLAN
C100	TREE PROTECTION, STAGING, AND ACCESS PLAN
C101	TREE INVENTORY TABLE AND CONSTRUCTION SEQUENCING
C102	REMOVAL / DEMOLITION PLAN
C200	PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN - 1
C201	PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN - 2
C202	MATERIALS PLAN
C203	LAYOUT AND ALIGNMENT PLAN
C300	SECTIONS AND PROFILES - 1
C301	SECTIONS AND PROFILES - 2
C500	DETAILS
C600	SITE DETAILS - 1
C601	SITE DETAILS - 2
C602	SITE DETAILS - 3

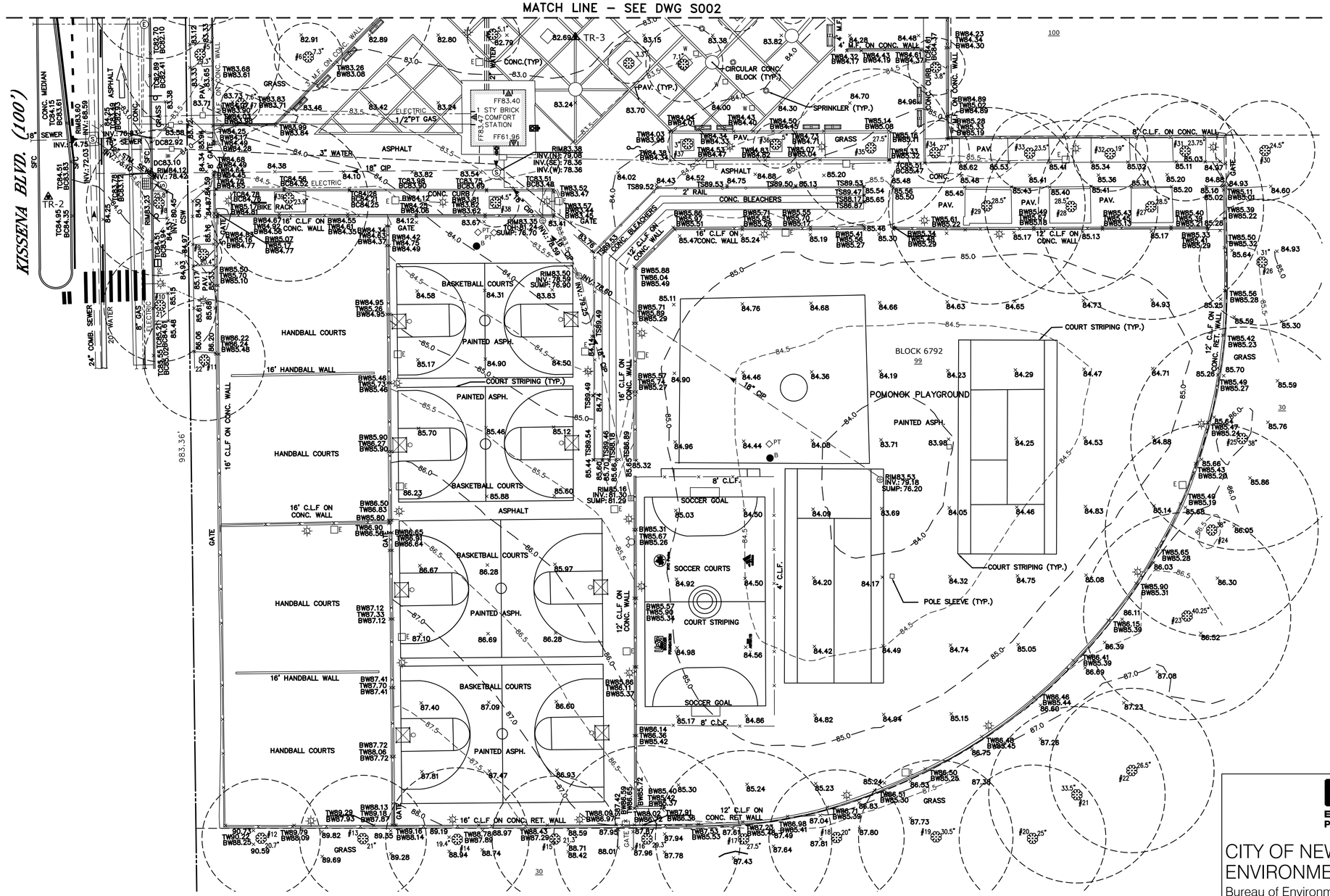
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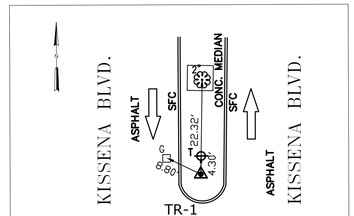
JOHN MCLAUGHLIN
MANAGING DIRECTOR
OFFICE OF ECOSYSTEM SERVICES, GREEN INFRASTRUCTURE AND RESEARCH
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS, NYCDEP

Lisa F. Garcia
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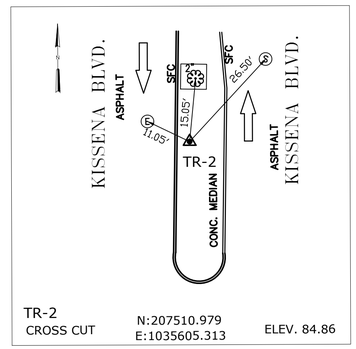
LISA F. GARCIA
COMMISSIONER
NYCDEP

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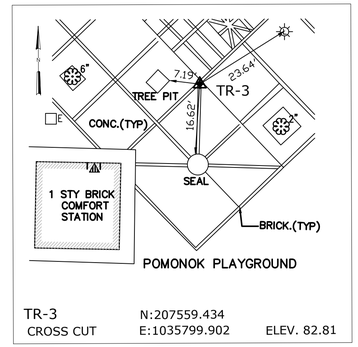




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ELEV. 74.69



TR-2
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E:1035605.313
ELEV. 84.86



TR-3
CROSS CUT
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E:1035799.902
ELEV. 82.81

TIES
N.T.S.

NOTES:

1. HORIZONTAL CONTROL REFERS TO THE NEW YORK STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 NAD83, ZONE N.Y.L.I. 3104.
2. ALL ELEVATIONS SHOWN HEREON REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. THIS MAP WAS PREPARED FROM DATA COLLECTED BY AN ACTUAL FIELD SURVEY CONDUCTED DURING JUNE 2021 BY MUNOZ ENGINEERING & LAND SURVEY D.P.C.
4. NAVD88 IS 1.625 FEET BELOW QUEENS HIGHWAY DATUM
5. LOCATIONS, EXTENT AND SIZES OF UNDERGROUND UTILITIES AND SUBSTRUCTURES HAVE BEEN DETERMINED FROM RECORD INFORMATION, SUPPLEMENTED BY DATA OBTAINED IN THE FIELD. ACCURACY OF THIS UTILITY DATA IS NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES AND SUBSTRUCTURES, WHETHER FUNCTIONAL OR ABANDONED, ARE SHOWN ON THIS MAP.

"UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF ARTICLE 134 SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW"

"Copies from the original of this survey map not marked with an original of the land surveyor's inked seal or his embossed seal shall not be considered a valid true copy."

0 10' 20' 40' 60'
1" = 20'

NO.	DATE	ISSUED FOR	BY

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Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL
STATE OF NEW YORK ANGELO JOHN FIORELLI 949468-1 LICENSED LAND SURVEYOR

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF POMONOK PLAYGROUND
FLUSHING BAY CSO TRIBUTARY AREA
KISSENA BOULEVARD BETWEEN 65TH AVENUE AND MELBOURNE AVENUE

DRAWING TITLE
TOPOGRAPHIC SURVEY PLAN

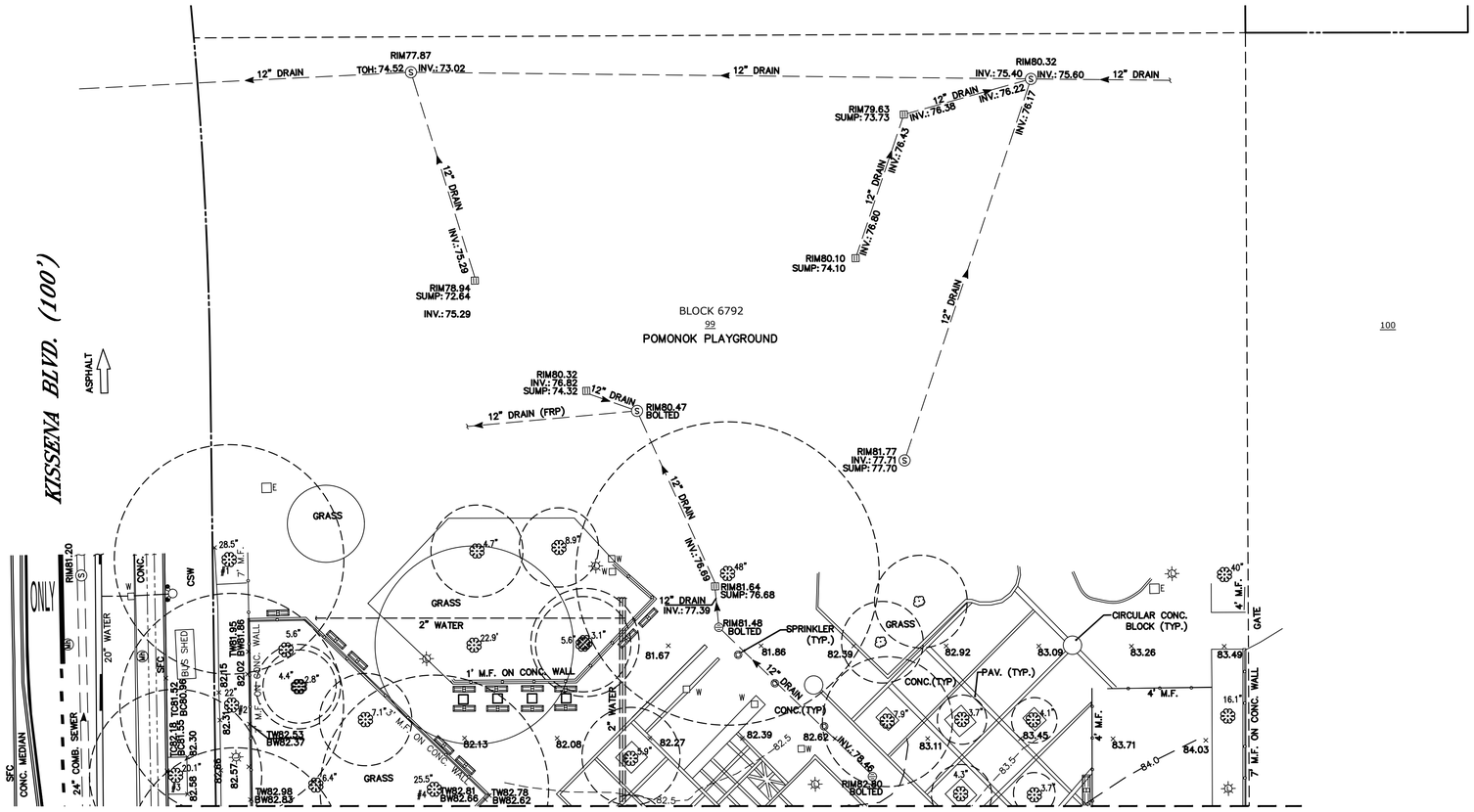
DESIGNED BY	DRAWN BY	CHECKED BY
N/A	K.O.	J.J.

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1"=20'-0"	S001	GQ-P-POMO

BLOCK 6792
LOT 99

DATE JUNE 2021

SHEET No. 2 OF 13 SHEETS



MATCH LINE – SEE DWG S001

NOTES:

1. HORIZONTAL CONTROL REFERS TO THE NEW YORK STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 NAD83, ZONE N.Y.L.I. 3104.
2. ALL ELEVATIONS SHOWN HEREON REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. THIS MAP WAS PREPARED FROM DATA COLLECTED BY AN ACTUAL FIELD SURVEY CONDUCTED DURING JUNE 2021 BY MUNOZ ENGINEERING & LAND SURVEY D.P.C.
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5. LOCATIONS, EXTENT AND SIZES OF UNDERGROUND UTILITIES AND SUBSTRUCTURES HAVE BEEN DETERMINED FROM RECORD INFORMATION, SUPPLEMENTED BY DATA OBTAINED IN THE FIELD. ACCURACY OF THIS UTILITY DATA IS NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES AND SUBSTRUCTURES, WHETHER FUNCTIONAL OR ABANDONED, ARE SHOWN ON THIS MAP.

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0 10' 20' 40' 60'

1" = 20'

NO.	DATE	ISSUED FOR	BY

SEAL

STATE OF NEW YORK ANGELO JOHN FIORENTINO 049468-1 LICENSED LAND SURVEYOR

BLOCK 6792

LOT 99

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

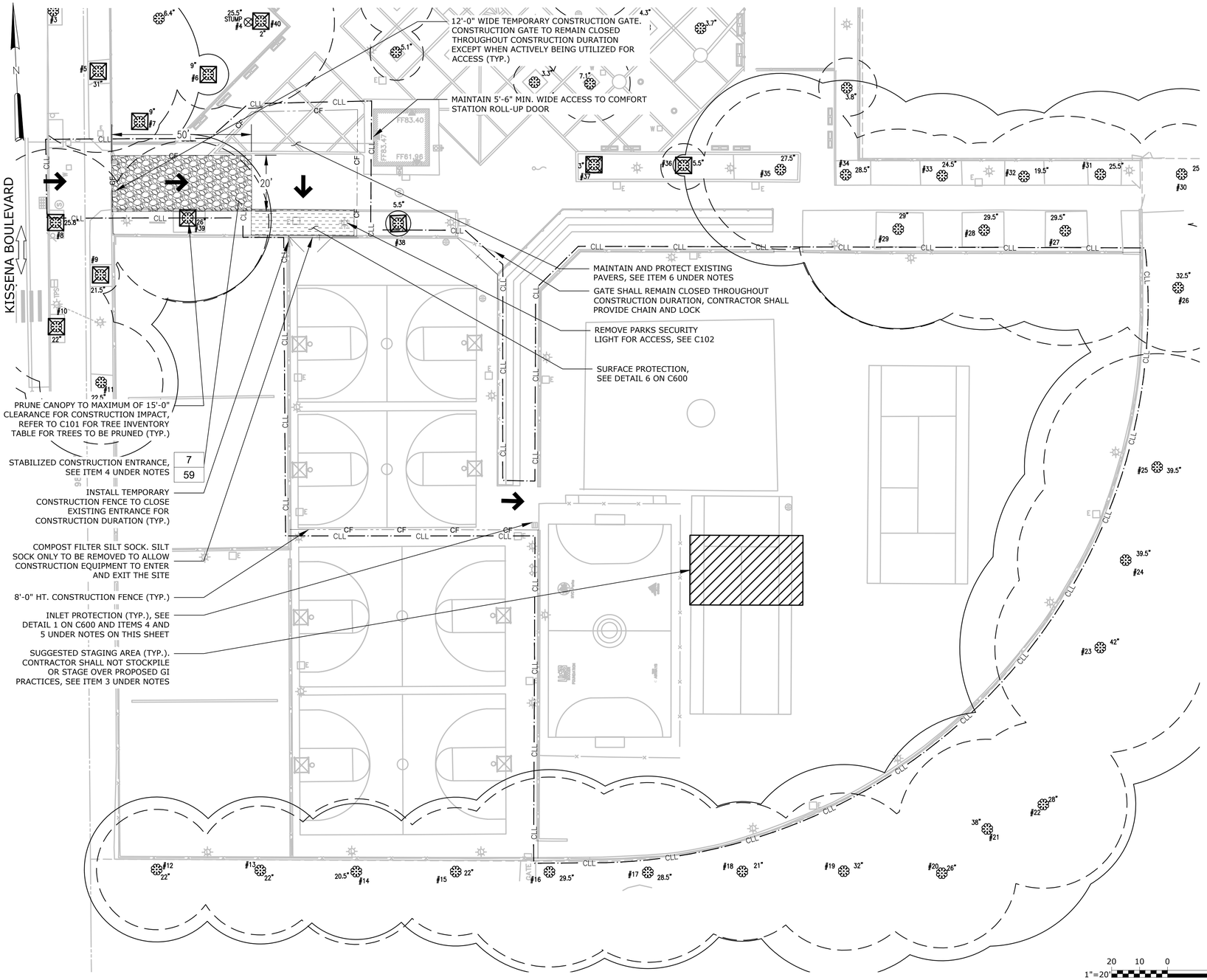
NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF POMONOK PLAYGROUND
FLUSHING BAY CSO TRIBUTARY AREA
KISSENA BOULEVARD BETWEEN 65TH AVENUE AND MELBOURNE AVENUE

DRAWING TITLE
TOPOGRAPHIC SURVEY PLAN

DESIGNED BY	DRAWN BY		CHECKED BY
N/A	K.O.		J.J.
B-SCAN	SCALE 1"=20'-0"	DRAWING NO. S002	CONTRACT NO. GQ-P-POMO
	DATE JUNE 2021		SHEET No. 3 OF 13 SHEETS



NOTES

1. SEE GENERAL NOTES FOR TREE PROTECTION NOTES.
2. THE TREE PROTECTION ZONE (T.P.Z.) SHALL CONSIST OF THE CRITICAL ROOT ZONE AND/OR THE CANOPY DRIPLINE; WHICHEVER EXTENT IS GREATER.
3. NO HEAVY EQUIPMENT, MACHINERY, OR STOCKPILING OF MATERIALS IS PERMITTED WITHIN THE T.P.Z. OF ANY EXISTING TREES THROUGHOUT THE COURSE OF THE CONTRACT.
4. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL REMAIN UNTIL ALL EXCAVATED AREAS ARE STABILIZED AND FINAL PAVEMENT HAS BEEN PLACED. A FLAGGER IS REQUIRED FOR CONSTRUCTION ENTRANCE(S) LESS THAN 24' WIDE.
5. INSTALL INLET PROTECTION ON ALL DRAINAGE STRUCTURES WITHIN THE CONTRACT LIMIT LINE.
6. PAVERS DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
7. REFER TO C101 FOR TREE INVENTORY TABLE.
8. TREE PROTECTION PLAN BASED ON UPDATED TREE INVENTORY PERFORMED BY SITEWORKS IN JULY 2025.
9. TREE PROTECTION SHALL BE CONFIRMED BY NYC PARKS DURING PRE-CONSTRUCTION WALKTHROUGH. CONTRACTOR SHALL NOT INSTALL TREE PROTECTION MEASURES UNTIL APPROVED BY NYC PARKS.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

1. WORK HOURS ARE 7A.M.-6P.M. MONDAY THROUGH FRIDAY.
2. THE CONTRACTOR MAY OCCUPY 50 L.F. OF PARKING LANE 8'-0" ADJACENT TO EAST CURB TO STORE MATERIALS DURING WORK HOURS ONLY. THE CONTRACTOR SHALL RETURN THE FULL WIDTH OF THE ROADWAY AFTER WORK HOURS.
3. THE CONTRACTOR MUST MAINTAIN A 5'-0" WIDE WALKWAY ON THE SIDEWALK DURING WORK HOURS. THE CONTRACTOR SHALL RETURN THE FULL WIDTH OF THE SIDEWALK AFTER WORK HOURS.
3. THE CONTRACTOR SHALL MAINTAIN ALL CROSSWALKS DURING AND AFTER WORK HOURS. WORK HOURS ARE 7A.M.-6P.M. MONDAY THROUGH FRIDAY IF SCHOOL IS NOT IN SESSION. WORK HOURS ARE 9A.M.-2P.M. MONDAY THROUGH FRIDAY IF SCHOOL IS IN SESSION. THE CONTRACTOR MUST NOTIFY P.S. 201 THE DISCOVERY SCHOOL FOR INQUIRY AND RESEARCH A MINIMUM OF FOUR (4) WEEKS PRIOR TO MOBILIZING. THIS SITE IS A JOINTLY OWNED PLAYGROUND. WORK HOURS AND DAYS MAY BE ADJUSTED BY NYC PARKS AND DEPARTMENT OF EDUCATION.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVEWAYS OF ALL PROPERTY OWNERS AT ALL TIMES.
5. THE CONTRACTOR SHALL NOT OCCUPY THE EXISTING BUS STOP AT ANY TIME. THE CONTRACTOR MUST COORDINATE WITH JIE LI (JIE.LI@NYCT.COM) AT MTA BUS.
6. SEE COMPLETE LIST OF SPECIAL STIPULATIONS AND GENERAL NOTES IN THE OCMC FILE NO. CEC-24-336 DATED 9/30/2024.
7. THE CONTRACTOR SHALL HAVE FLAGGERS POSITIONED IN FRONT AND BEHIND CONSTRUCTION VEHICLES WHILE TRAVERSING AREAS ACCESSIBLE BY THE PUBLIC.

LEGEND

- TREE GUARD
- STAGING AREA, SEE DETAIL 4 ON C600
- SILT SOCK
- CONSTRUCTION ACCESS/ENTRANCE
- CF — CF — 8'-0" HT. CONSTRUCTION FENCE
- TREE CRITICAL ROOT ZONE
- TREE DRIPLINE
- SURFACE PROTECTION, SEE DETAIL 6 ON C600

NO.	DATE	ISSUED FOR	BY

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PARKS & RECREATION
Forestry, Horticulture and Natural Resources

SEAL
STATE OF NEW YORK · MICHAEL DAVID BRAUN · 101288 · LICENSED PROFESSIONAL ENGINEER

HDR

BLOCK 6792
LOT 99

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF POMONOK PLAYGROUND
FLUSHING BAY CSO TRIBUTARY AREA
KISSENA BOULEVARD BETWEEN 65TH AVENUE AND MELBOURNE AVENUE

DRAWING TITLE
TREE PROTECTION, STAGING AND ACCESS PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
G. GIDICSIN	K. NGUYEN	M. BRAUN

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C100	GQ-P-POMO
	DATE JUNE 2026		SHEET No. 4 OF 13 SHEETS

TREE #	SPECIES (common name)	DBH (inches)	CTLA CONDITION RATING	ISA CRITICAL ROOTZONE (CRZ) RADIUS (ft.)	TREE REMOVAL	STUMP REMOVAL	TRANSPLANT TREE	PREPARATORY PRUNING							TREE PROTECTION								DECOMPACT				PREPARATORY FERTILIZE	TREE GROWTH REGULATOR
								ANSI A-300																					
								Cleaning	Raising	Reducing	Restoring	Structural	Thinning	Limb Tying	Temporary Wooden Tree Guard	Temporary Wooden Tree Guard For Groves	Temporary Fence Boundary	Protect Existing Tree Roots w/ Woodchips	Protect Ex. Tree Roots w/ Plywood or Mats			Air-Tilling 3 Ft Radius	Air-Tilling 5 Ft Radius	Radial Trench	Vertical Mulch		
3	OAK, PIN	23	50%	22.5																								
4	STUMP	26	0%	3.0		X																						
5	OAK, PIN	31	75%	38.8											X													
6	GOLDENRAIN TREE	9	72%	9.0											X													
7	GOLDENRAIN TREE	9	100%	9.0											X													
8	OAK, PIN	26	66%	25.8				X							X													
9	OAK, PIN	22	69%	21.5											X													
10	OAK, PIN	22	59%	22.0				X							X													
11	OAK, PIN	23	66%	22.5																								
12	OAK, PIN	22	69%	22.0																								
13	OAK, PIN	22	63%	22.0																								
14	OAK, PIN	21	38%	20.5																								
15	OAK, PIN	22	56%	22.0																								
16	OAK, PIN	30	41%	29.5				X																				
17	OAK, PIN	29	53%	28.5				X																				
18	OAK, PIN	21	53%	21.0				X																				
19	OAK, PIN	32	75%	40.0				X																				
20	OAK, PIN	26	75%	26.0																								
21	OAK, PIN	38	66%	47.5																								
22	OAK, PIN	28	75%	28.0																								
23	OAK, NORTHERN RED	42	91%	52.5				X																				
24	OAK, NORTHERN RED	40	94%	49.4				X																				
25	OAK, NORTHERN RED	40	94%	49.4				X																				
26	OAK, NORTHERN RED	33	94%	40.6				X																				
27	OAK, PIN	30	81%	36.9				X																				
28	OAK, PIN	30	81%	36.9				X																				
29	OAK, PIN	29	81%	29.0				X																				
30	LONDON PLANETREE	26	94%	25.5																								
31	OAK, PIN	26	94%	25.5																								
32	OAK, PIN	20	94%	14.6																								
33	OAK, PIN	25	94%	24.5																								
34	OAK, PIN	29	94%	28.5																								
35	OAK, PIN	28	84%	27.5																								
36	OAK, PIN	6	59%	4.1											X													
37	OAK, SWAMP CHESTNUT	3	41%	3.0				X							X													
38	OAK, PIN	6	78%	4.1				X							X													
39	OAK, PIN	26	81%	26.0				X							X													
40	GOLDENRAIN TREE	2	97%	3.0											X													

NOTES

1. REFER TO C100 FOR TREE PROTECTION PLAN.
2. REFER TO GENERAL NOTES FOR TREE PROTECTION NOTES.

SUGGESTED SEQUENCE OF CONSTRUCTION

ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND UPON APPROVAL OF THE ENGINEER. ALL WORK SHALL BE DONE IN A MANNER TO MINIMIZE DISTURBANCE TO THE PLAYGROUND AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. STAKE OUT AND RECEIVE APPROVAL FROM THE ENGINEER FOR THE LIMITS OF WORK BEFORE BEGINNING ANY CLEARING.

1. INLET PROTECTION (SEE DETAIL 1, SHEET C600) SHALL BE USED ON ALL DRAINAGE INLETS ADJACENT TO AND DOWNSTREAM OF CONSTRUCTION AREA.
2. INSTALL PERIMETER EROSION CONTROL MEASURES INCLUDING CONSTRUCTION LIMIT FENCING AROUND THE WORK AREA, INSTALL ALL TREE PROTECTION.
3. PERFORM PAVEMENT AND DEBRIS REMOVAL.
4. EXCAVATION AND INSTALLATION OF SUBSURFACE RETENTION PRACTICE Q329 AND OUTLET STRUCTURE SHALL BE PERFORMED ALONG WITH ALL ASSOCIATED APPURTENANCES.
5. EXCAVATION AND INSTALLATION OF POROUS ASPHALT PRACTICE SHALL BE PERFORMED ALONG WITH ALL ASSOCIATED APPURTENANCES. CONTRACTOR SHALL INSTALL POROUS ASPHALT PRACTICE Q329-01PPa AFTER CONSTRUCTION OF PRACTICE Q329-02SPa.
6. BACKFILL AS PER CONTRACT SPECIFICATIONS, TO THE FINAL ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.
7. RESURFACE AND REPAINT MULTIPURPOSE PAVEMENT AREA AS PER THE CONTRACT DRAWINGS.
8. ONCE ALL AREAS HAVE BEEN STABILIZED, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

TABLE 4.6(a) – CONSTRUCTION SEQUENCING

PHASE # 0: Click or tap here to enter text.
STAGE # 0: Site Preparation

CONSTRUCTION ACTIVITY (in sequential order)	PRACTICE(S) INSTALLED PRIOR TO ACTIVTY[1]	PRACTICE(S) INSTALLED DURING ACTIVTY[1]
Installation of ESC features	None	Inlet protection Straw Bale Dikes Stabilized Construction Entrance
Tree Protection	Inlet Protection Straw Bale Dikes	None

TABLE 4.6(b) – CONSTRUCTION SEQUENCING

PHASE # _ _: Click or tap here to enter text.
STAGE # 1: Construction

CONSTRUCTION ACTIVITY (in sequential order)	PRACTICE(S) INSTALLED PRIOR TO ACTIVTY[1]	PRACTICE(S) INSTALLED DURING ACTIVTY[1]
Excavate subsurface practice area	Inlet protection Compost Filter Socks Straw Bale Dikes Tree Protection Stabilized Construction Entrance	Dust Control
Construction of subsurface practice		None
Mill and overlay rest of MPPA area within subsurface practice tributary area		Dust Control
Excavate porous asphalt practice area		Dust Control
Construction of porous asphalt practice		None
Mill and overlay rest of MPPA area within porous asphalt practice tributary area		Dust Control

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Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL: STATE OF NEW YORK · MICHAEL DAVID BRAUN · 101288 · LICENSED PROFESSIONAL ENGINEER

FDR

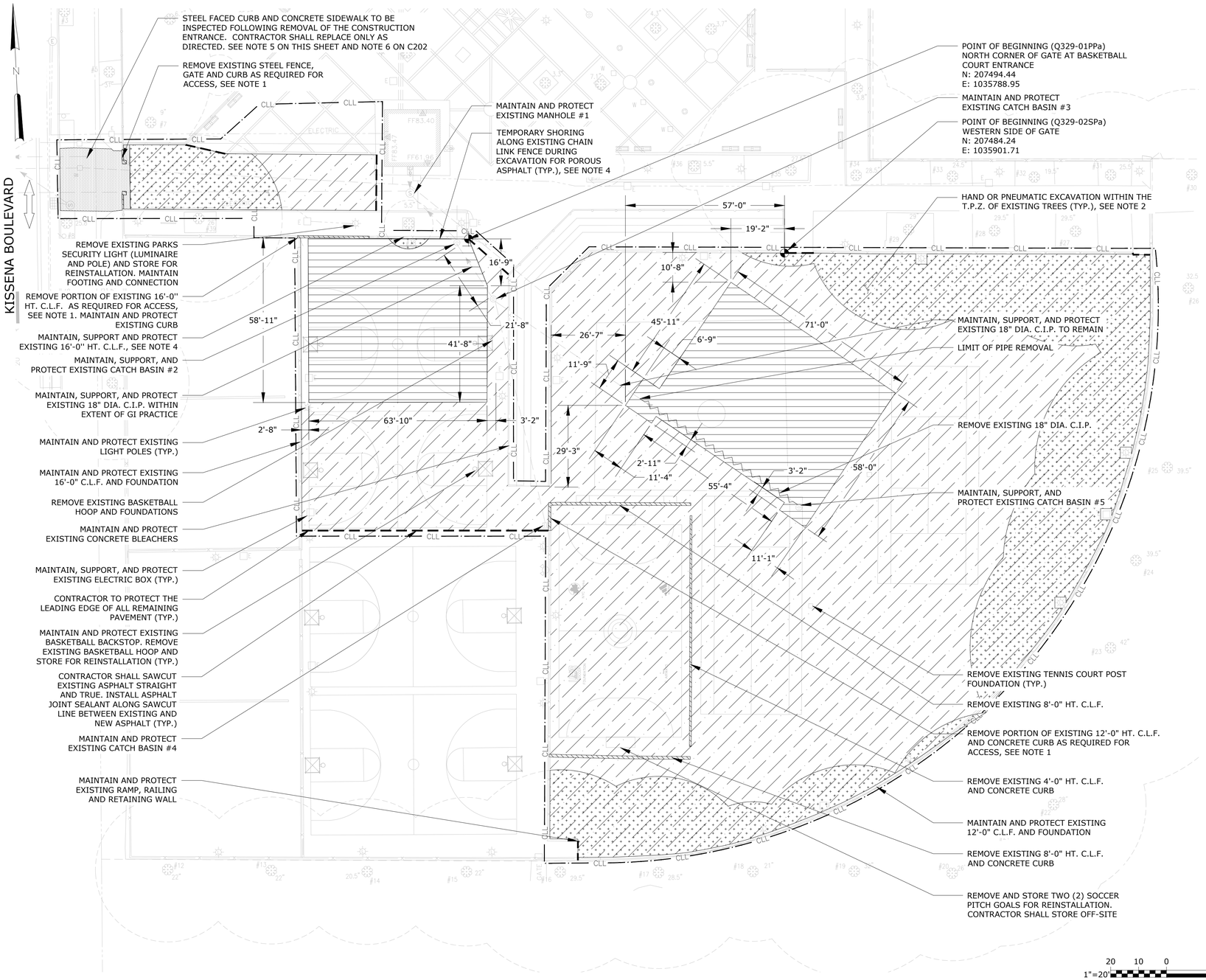
BLOCK 6792
LOT 99

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF POMONOK PLAYGROUND
FLUSHING BAY CSO TRIBUTARY AREA
KISSENA BOULEVARD BETWEEN 65TH AVENUE AND MELBOURNE AVENUE

DRAWING TITLE
TREE INVENTORY TABLE AND CONSTRUCTION SEQUENCING

DESIGNED BY	DRAWN BY	CHECKED BY
G. GIDICSIN	K. NGUYEN	M. BRAUN

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	N.T.S	C101	GQ-P-POMO
	DATE JUNE 2026		SHEET No. 5 OF 13 SHEETS



NOTES

1. REMOVE, STORE, AND MAINTAIN ALL CHAIN LINK AND STEEL FENCE PANEL AND POST COMPONENTS. REMOVE THE MINIMUM EXTENT OF FENCING AS NECESSARY TO ALLOW ACCESS. CONTRACTOR SHALL STORE ALL MATERIAL OFF-SITE.
2. ALL EXCAVATION WITHIN THE T.P.Z. SHALL BE PERFORMED BY HAND OR PNEUMATICALLY, WITH MINIMUM SOIL DISTURBANCE, AND UNDER THE SUPERVISION OF THE DIRECTOR OF LANDSCAPE CONSTRUCTION OR THEIR AUTHORIZED REPRESENTATIVE.
3. ALL EXCAVATION ALONG EXISTING 18" DIA. C.I.P. SHALL BE PERFORMED BY HAND OR PNEUMATICALLY, WITH MINIMAL SOIL DISTURBANCE.
4. CONTRACTOR SHALL FULLY EXCAVATE AND EXPOSE NO MORE THAN 15 L.F. OF ASPHALT PAVEMENT ALONG THE C.L.F. CURBLINE AT ANY ONE TIME. THE CONTRACTOR SHALL BACKFILL AND COMPACT THE SUBSURFACE COURSES BEFORE PROCEEDING WITH ADDITIONAL EXCAVATION ALONG THE CURBLINE.
5. IF EXISTING CURB AT THE CONSTRUCTION ENTRANCE IS DAMAGED, EXISTING ROADWAY PAVEMENT ENVELOPE (TOP COURSE AND BASE COURSE) SHALL BE SAWCUT, REMOVED AND REPLACED A MINIMUM OF 1'-6" WIDTH WITH NEW PAVEMENT TO MATCH EXISTING PAVEMENT ENVELOPE.

LEGEND

- EXCAVATION - FULL DEPTH GREEN INFRASTRUCTURE PRACTICE
- EXCAVATION - FULL DEPTH ASPHALT REMOVAL
- EXCAVATION - FENCE AND/OR CURB REMOVAL
- HAND EXCAVATION (VERIFY LIMITS IN FIELD BASED ON CONFIRMED T.P.Z.)
- CONCRETE SIDEWALK AND STEEL FACED CURB REMOVAL, AS NEEDED
- SAWCUT PAVEMENT
- PIPE REMOVAL
- POINT OF BEGINNING

20 10 0 20'
1"=20'

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Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL
STATE OF NEW YORK · MICHAEL DAVID BRAUN · 101288 · LICENSED PROFESSIONAL ENGINEER
HDR

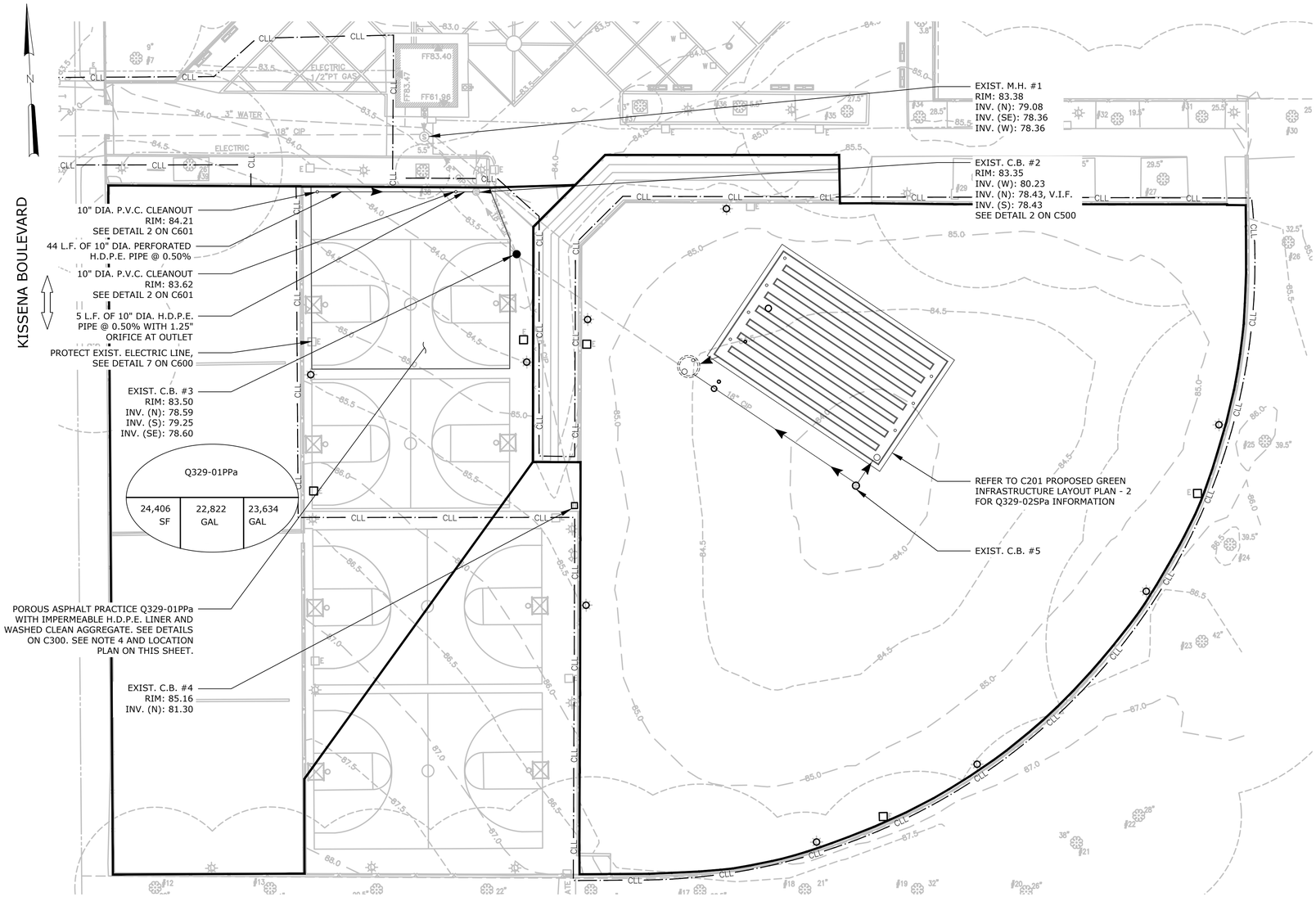
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LOT 99

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF POMONOK PLAYGROUND
FLUSHING BAY CSO TRIBUTARY AREA
KISSENA BOULEVARD BETWEEN 65TH AVENUE AND MELBOURNE AVENUE

DRAWING TITLE
REMOVAL / DEMOLITION PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
G. GIDICSIN	K. NGUYEN	M. BRAUN

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C102	GQ-P-POMO
	DATE JUNE 2026		SHEET No. 6 OF 13 SHEETS



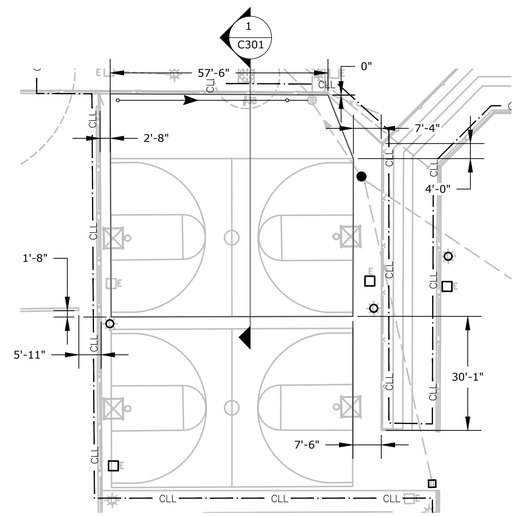
NOTES

1. SEE C300 FOR PROFILE OF GREEN INFRASTRUCTURE PRACTICE.
2. CONTRACTOR TO MATCH EXISTING FINISHED GRADE OVER ENTIRE PROJECT AREA UNLESS NOTICEABLE PONDING AREAS ARE ENCOUNTERED.
3. IF PONDING AREAS ARE ENCOUNTERED, CONTRACTOR TO ADJUST GRADING MINIMALLY TO PROVIDE POSITIVE DRAINAGE WHILE MAINTAINING EXISTING ELEVATIONS OF ALL FIXED STRUCTURES AND ELEVATIONS AT PERIMETER FENCELINE.
4. PER SPECIFICATIONS 01 32 10 PROGRESS SCHEDULE AND 33 05 05.33 DOUBLE RING INFILTROMETER TESTING, CONTRACTOR SHALL REPORT THE DOUBLE RING INFILTROMETER TESTING RESULTS TO THE ENGINEER FOR REVIEW. IF THE PERMEABILITY RATES ARE EQUAL TO OR ABOVE 0.5 IN/HR, CONTRACTOR SHALL INSTALL GEOTEXTILE-DRAINAGE IN PLACE OF THE IMPERMEABLE H.D.P.E. BARRIER SURROUNDING THE PRACTICE.
5. CONTRACTOR SHALL INSTALL POROUS ASPHALT PRACTICE Q329-01PPa AFTER CONSTRUCTION OF PRACTICE Q329-02SPa TO PREVENT SETTLEMENT OF Q326-01PPa CAUSED BY CONSTRUCTION ACCESS TO THE GREATEST EXTENT POSSIBLE.

LEGEND

- GREEN INFRASTRUCTURE PRACTICE DRAINAGE AREA
- OUTLET CONTROL STRUCTURE
- MAINTENANCE ACCESS RISER
- CLEANOUT
- DRAINAGE PIPE

GREEN INFRASTRUCTURE TYPE		
TRIBUTARY AREA	CAPACITY OF 1.5" EVENT CAPTURE	TOTAL CAPACITY OF GI



ABOVE DIMENSIONS SHOWN FROM EDGE OF PRACTICE TO INSIDE FACE OF EXISTING PERIMETER CURB

GREEN INFRASTRUCTURE LOCATION PLAN

GI ID	GI Asset Data					Stormwater Storage Calculations				Total Stormwater Managed (Infiltration + Storage)				
							Stone Subbase							
	Managed Impervious Tributary Area	Volume 1.5 in. Rainfall on Impervious Area	GI Footprint Surface Area	GI Perimeter	Permeability Coefficient	10 in. Dia. Perforated Underdrain (0.55 CF/LF)	Stone Depth	Stone Voids	Stormwater Captured by Stone Layer	Estimated Total Infiltration Volume	Estimated Total Storage Volume	% Impervious Surface Managed	Calculated Volume of Rainfall Captured	Calculated Volume of Rainfall Captured
	sf	cf	sf	ft	in/hr	cf	ft	%	cf	cf	cf	%	cf	gal
Q329-01PPa	24406	3050.8	3698	240	0.00	27	2.15	40	3132.7	0.0	3159.7	104%	3159.7	23634.4

20 10 0 20'
1"=20'

NYC Environmental Protection

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ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL: STATE OF NEW YORK · MICHAEL DAVID BRAUN · 101288 · LICENSED PROFESSIONAL ENGINEER

HDR

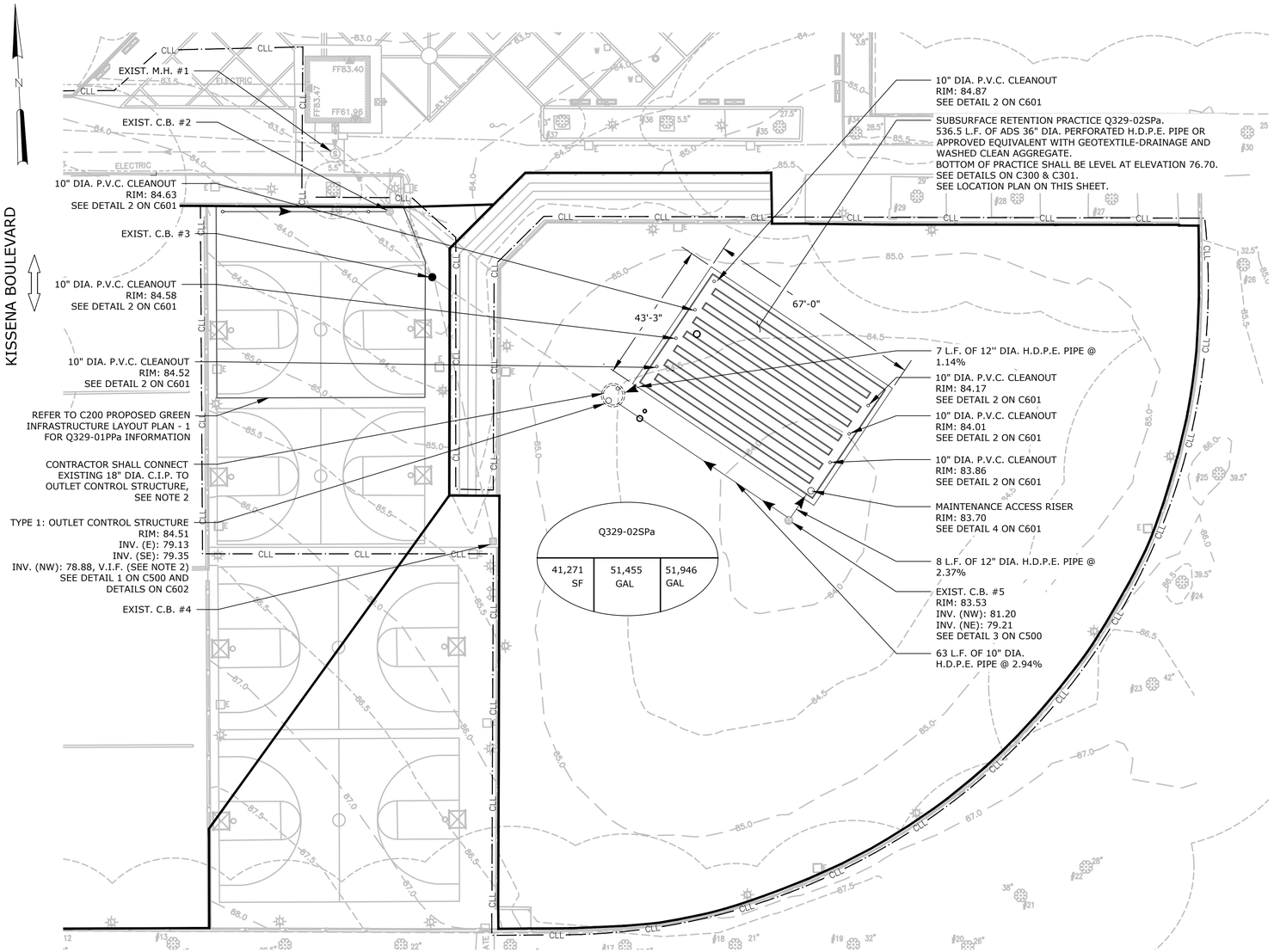
BLOCK 6792
LOT 99

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF POMONOK PLAYGROUND
FLUSHING BAY CSO TRIBUTARY AREA
KISSENA BOULEVARD BETWEEN 65TH AVENUE AND MELBOURNE AVENUE

DRAWING TITLE
PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN - 1

DESIGNED BY	DRAWN BY	CHECKED BY
G. GIDICSIN	K. NGUYEN	M. BRAUN

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C200	GQ-P-POMO
	DATE JUNE 2026		SHEET No. 7 OF 13 SHEETS



NOTES

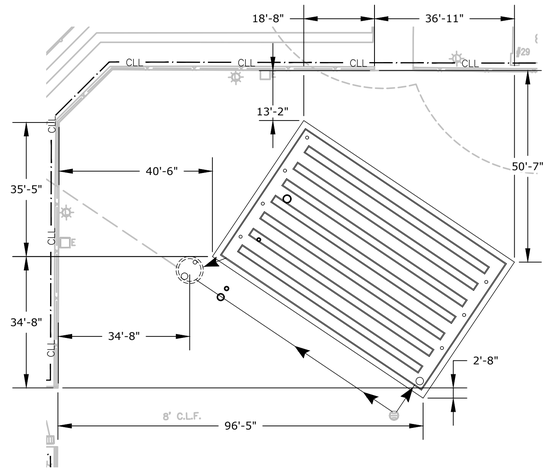
1. SEE C300 FOR PROFILE OF GREEN INFRASTRUCTURE PRACTICE.
2. CONTRACTOR SHALL VERIFY IN FIELD THE INVERT OF THE EXISTING 18" DIA. C.I.P. AT THIS LOCATION BEFORE SUBMITTING A SHOP DRAWING OF THE OUTLET CONTROL STRUCTURE.
3. CONTRACTOR TO MATCH EXISTING FINISHED GRADE OVER ENTIRE PROJECT AREA UNLESS NOTICEABLE PONDING AREAS ARE ENCOUNTERED.
4. IF PONDING AREAS ARE ENCOUNTERED, CONTRACTOR TO ADJUST GRADING MINIMALLY TO PROVIDE POSITIVE DRAINAGE WHILE MAINTAINING EXISTING ELEVATIONS OF ALL FIXED STRUCTURES AND ELEVATIONS AT PERIMETER FENCELINE.

LEGEND

- GREEN INFRASTRUCTURE PRACTICE DRAINAGE AREA
- OUTLET CONTROL STRUCTURE
- MAINTENANCE ACCESS RISER
- CLEANOUT
- DRAINAGE PIPE

GREEN INFRASTRUCTURE TYPE

TRIBUTARY AREA	CAPACITY OF 2.0" EVENT CAPTURE	TOTAL CAPACITY OF GI



ABOVE DIMENSIONS SHOWN FROM EDGE OF PRACTICE TO INSIDE FACE OF EXISTING PERIMETER CURB

GREEN INFRASTRUCTURE LOCATION PLAN

GI ID	GI Asset Data					Stormwater Storage Calculations				Total Stormwater Managed (Infiltration + Storage)				
							Stone Subbase							
	Managed Impervious Tributary Area	Volume 2 in. Rainfall on Impervious Area	GI Footprint Surface Area	GI Perimeter	Permeability Coefficient	Subsurface 36 in. Dia. Perforated Stormwater Pipes (7.07 CF/LF)	Stone Depth	Stone Voids	Stormwater Captured by Stone Layer	Estimated Total Infiltration Volume	Estimated Total Storage Volume	% Impervious Surface Managed	Calculated Volume of Rainfall Captured	Calculated Volume of Rainfall Captured
	sf	cf	sf	ft	in/hr	cf	ft	%	cf	cf	cf	%	cf	gal
Q329-02SPa	41271	6878.5	2898	221	0.50	3793.1	4.50	40	3151.5	1296.7	6944.6	101%	8241.3	61644.7

20 10 0 20'
1"=20'

NO.	DATE	ISSUED FOR	BY

SEAL: STATE OF NEW YORK · MICHAEL DAVID BRAUN · 101288 · LICENSED PROFESSIONAL ENGINEER

BLOCK 6792
LOT 99

NYC Environmental Protection
CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks
CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF POMONOK PLAYGROUND
FLUSHING BAY CSO TRIBUTARY AREA
KISSENA BOULEVARD BETWEEN 65TH AVENUE AND MELBOURNE AVENUE

DRAWING TITLE
PROPOSED GREEN INFRASTRUCTURE LAYOUT PLAN - 2

DESIGNED BY	DRAWN BY	CHECKED BY
G. GIDICSIN	K. NGUYEN	M. BRAUN

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C201	GQ-P-POMO
	DATE JUNE 2026		SHEET No. 8 OF 13 SHEETS

KISSENA BOULEVARD

5 / 17 CONCRETE CURB REPLACEMENT

ALL / 33 — ALL / 36 REINSTALL STEEL FENCE AND DOUBLE SWING GATE

MAINTENANCE ACCESS RISER

10" DIA. P.V.C. CLEANOUT (TYP.)

OUTLET CONTROL STRUCTURE

REINSTALL LIGHT POLE TO MATCH EXISTING CONDITIONS

ALL / 29 RESET 16'-0" C.L.F.

NORTHERN JUNIOR BASKETBALL COURT STRIPING TO MATCH EXISTING CONDITIONS

POROUS ASPHALT, NO COLOR SEAL WITHIN THE POROUS ASPHALT PRACTICE EXTENT

SOLID COVER AND FRAME ON EXIST. C.B. #3, SEE NOTE 4

2 / 45A SOUTHERN JUNIOR BASKETBALL COURT COLOR SEAL TO MATCH EXISTING CONDITIONS

1 / 15 FULL DEPTH ASPHALT PAVEMENT

ALL / 45 INSTALL BASKETBALL BACKSTOP

REINSTALL BASKETBALL HOOP TO MATCH EXISTING CONDITIONS, TYP.

8 / 42 LITTLE LEAGUE/SOFTBALL FIELD STRIPING

3 / 52 THREE (3) POTSY COURTS

2 / 52 TWO (2) BOX BALL COURTS

COLOR SEAL TO BE REPLACED IN KIND

REINSTALL TWO (2) SOCCER GOALS

ONE (1) MAP OF UNITED STATES SEE COLOR SEAL PLAN ON C203

RELOCATED SOCCER COURT

RESTORE STRIPING AND LOGOS TO MATCH EXISTING CONDITIONS

13 / 17 ALL / 29 INSTALL 4'-0" HT. C.L.F. (TYP.)

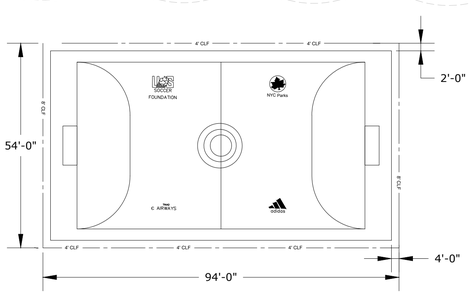
13 / 17 ALL / 29 INSTALL 8'-0" HT. C.L.F. (TYP.)

NOTES

1. SEE C200 AND C201 FOR ELEVATIONS OF DRAINAGE STRUCTURES.
2. CONTRACTOR SHALL STOCKPILE ALL CHAIN LINK AND STEEL FENCE COMPONENTS REMOVED TO FACILITATE CONSTRUCTION. LOST OR DAMAGED COMPONENTS SHALL BE REPLACED TO NYC PARKS STANDARDS AT NO ADDITIONAL COST TO THE AGENCY.
3. COLOR SEAL FOR SOUTHERN JUNIOR BASKETBALL COURT SHALL BE GREEN WITH WHITE STRIPING TO MATCH EXISTING CONDITIONS. COLOR SEAL FOR SOCCER COURT SHALL BE LIGHT BLUE WITH DARK BLUE STRIPING AND LOGOS. STRIPING AND PAINTED BASES FOR BASEBALL FIELD SHALL BE WHITE. PERIMETER TRACK SHALL BE WHITE STRIPING WITH LIGHT BLUE COLOR SEAL.
4. EXISTING ADA COMPLIANT GRATE TO BE RETROFITTED TO SOLID COVER WITH SLIP RESISTANT STEEL PLATE AND BE ADJUSTED TO FINISHED GRADE.
5. SEE C203 FOR LAYOUT AND LOCATION OF STRIPING AND PAINTED GAMES.
6. CONCRETE SIDEWALK AND STEEL FACED CURB WILL ONLY BE REPLACED FOLLOWING INSPECTION AND APPROVAL BY DEP OR THEIR AUTHORIZED AGENT. CONCRETE SIDEWALK SHALL BE 7-INCH DEPTH, PER NYCDOT STANDARD DETAIL H-1045, TYPE II, IF REPLACEMENT IS REQUIRED.

LEGEND

- FULL DEPTH ASPHALT PAVEMENT
- CURB AND/OR FENCE REPLACEMENT
- POROUS ASPHALT
- SIDEWALK AND CURB REPLACEMENT, AS NEEDED
- CLEANOUT
- MAINTENANCE ACCESS RISER
- SOLID COVER AND FRAME
- OUTLET CONTROL STRUCTURE
- 4'-0" HT. CHAIN LINK FENCE
- 8'-0" HT. CHAIN LINK FENCE



SOCCER COURT FENCING PLAN

20 10 0 20'
1"=20'

NO.	DATE	ISSUED FOR	BY

BLOCK 6792
LOT 99

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NYC Parks

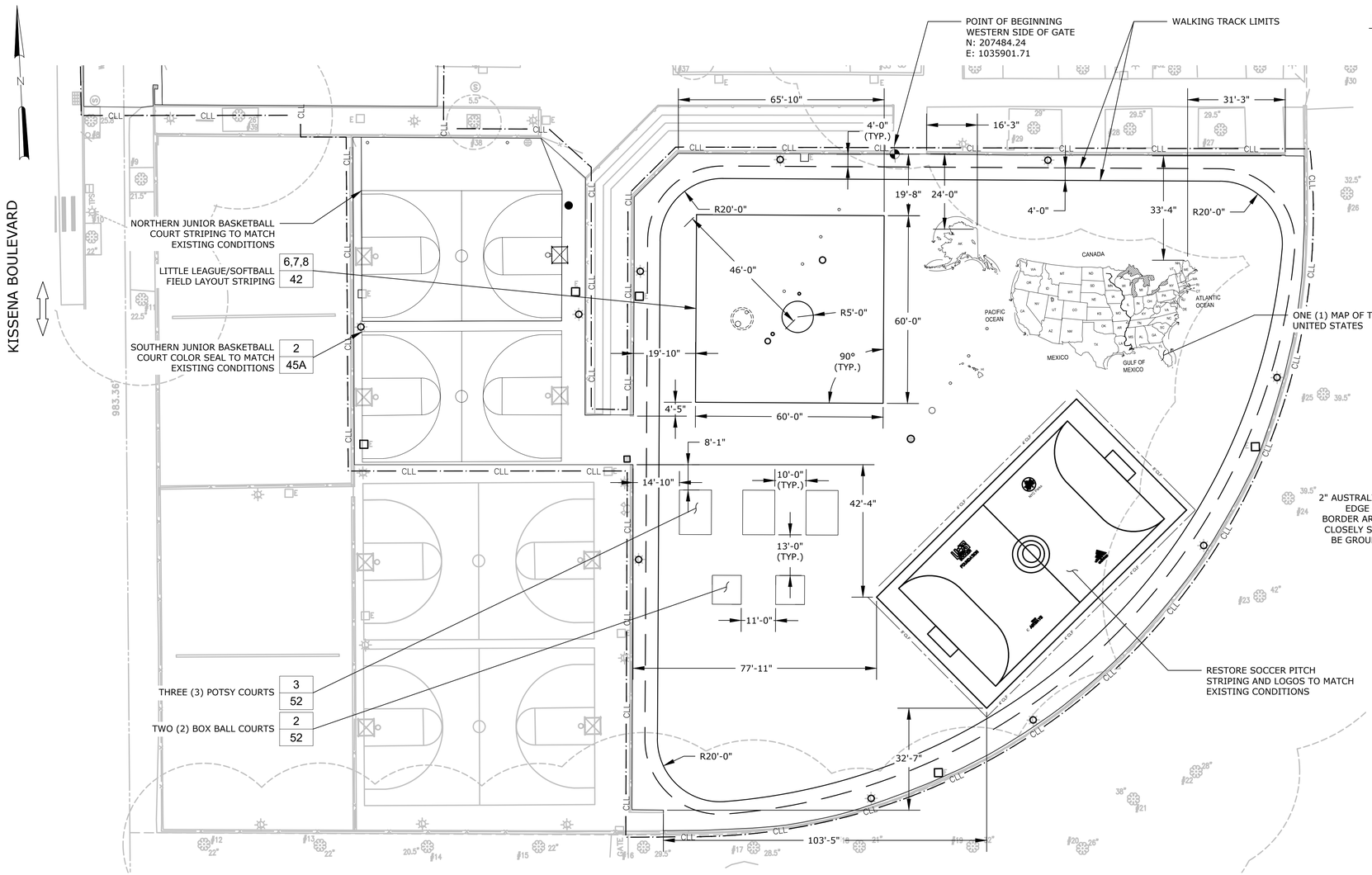
CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF POMONOK PLAYGROUND
FLUSHING BAY CSO TRIBUTARY AREA
KISSENA BOULEVARD BETWEEN 65TH AVENUE AND MELBOURNE AVENUE

DRAWING TITLE
MATERIALS PLAN

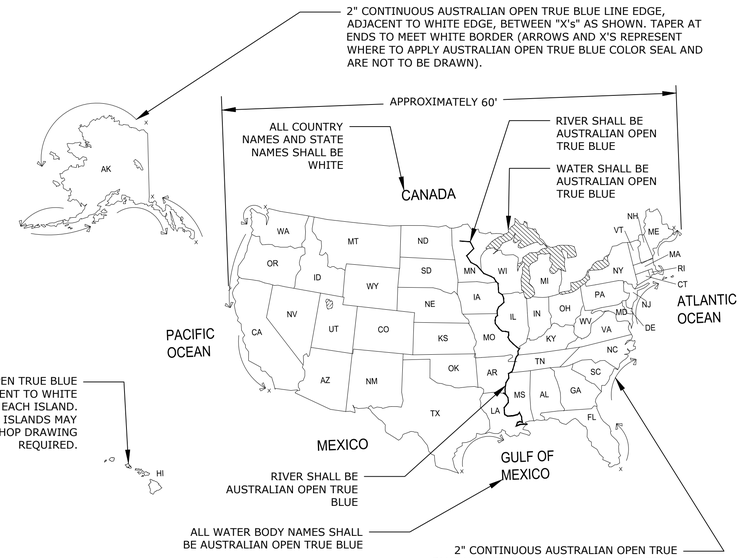
DESIGNED BY	DRAWN BY	CHECKED BY
S. RANA	P. SHAH	M. BRODERICK

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	1" = 20'	C202	GQ-P-POMO
	DATE JUNE 2026		SHEET No. 9 OF 13 SHEETS



NOTES

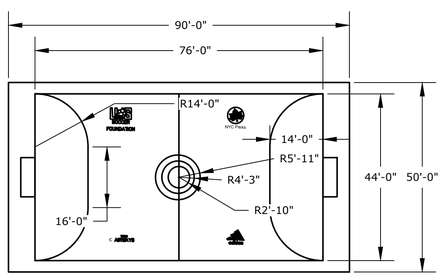
1. SEE C202 FOR MATERIALS PLAN.
2. DIMENSIONS ARE TAKEN FROM PERIMETER CURB TO LOCATE PROPOSED STRIPING AND PAINTED GAMES.
3. COLOR SEAL FOR SOUTHERN JUNIOR BASKETBALL COURT SHALL BE GREEN WITH WHITE STRIPING TO MATCH EXISTING CONDITIONS. COLOR SEAL FOR SOCCER COURT SHALL BE LIGHT BLUE WITH DARK BLUE STRIPING AND LOGOS. HOME PLATE, BASES, AND PITCHING MOUND FOR JUNIOR LEAGUE / SOFTBALL FIELD SHALL BE PAINTED WHITE. COLOR SEAL FOR PERIMETER TRACK SHALL BE WHITE WITH LIGHT BLUE COLOR STRIPING.
4. LOGOS WITHIN JUNIOR SOCCER FIELD SHALL BE PAID FOR UNDER PAINTED PARKS LEAF ITEM.



NOTES:
1. SCALE OF MAP IS TO BE 1'-0" = 50 MILES WITH THE EXCEPTION OF ALASKA, WHICH IS TO BE 1'-0" = 100 MILES.
2. OFFSET FOR ALASKA AND HAWAII ARE AS SHOWN ON SITE PLAN.
3. COLORS OF MAP ARE AS FOLLOWS:
   STATES: DARK GREEN
   OCEAN EDGE, LAKES AND RIVERS: AUSTRALIAN OPEN TRUE BLUE
   LINES & TEXT: WHITE
4. ALL LETTERS SHALL BE ARIAL FONT STYLE. ALL TEXT MUST BE OF EQUAL SIZE WITH THE EXCEPTION OF OCEAN NAMES, WHICH SHALL BE 24". STATE INITIALS SHALL BE 12".
5. CONTRACTOR MUST PROVIDE SHOP DRAWING AT 1/4"=1'-0" SCALE OR LARGER TO LANDSCAPE ARCHITECT FOR APPROVAL.
6. MAP SHALL BE ORIENTED AS SHOWN ON PLANS.

10 5 0 10'
1"=10'

PAINTED MAP - COLOR SEAL PLAN



SOCCER COURT STRIPING PLAN

20 10 0 20'
1"=20'

20 10 0 20'
1"=20'

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HDR

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LOT 99

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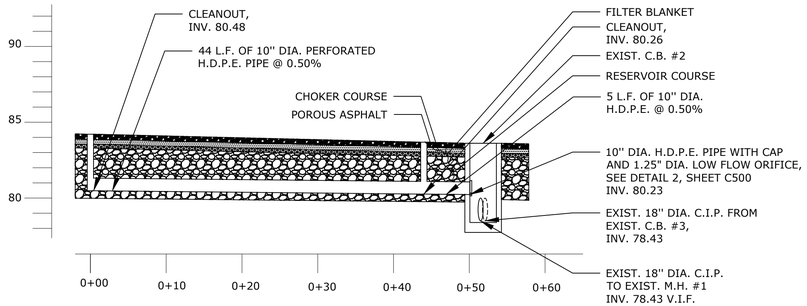
NYC Parks
CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF POMONOK PLAYGROUND
FLUSHING BAY CSO TRIBUTARY AREA
KISSENA BOULEVARD BETWEEN 65TH AVENUE AND MELBOURNE AVENUE

DRAWING TITLE
LAYOUT AND ALIGNMENT PLAN

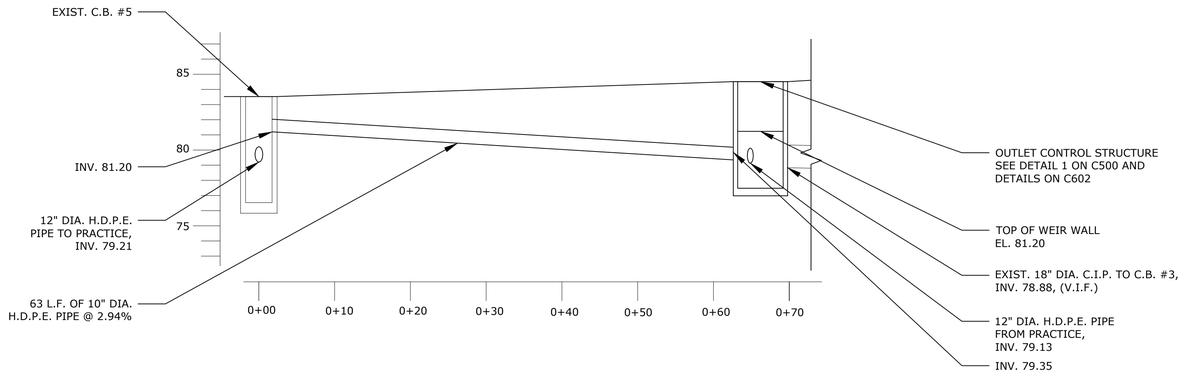
DESIGNED BY	DRAWN BY	CHECKED BY
S. KUMAR	S. KUMAR	M. BRODERICK

B-SCAN
SCALE 1" = 20'
DRAWING NO. C203
CONTRACT NO. GQ-P-POMO
DATE JUNE 2026
SHEET No. 10 OF 13 SHEETS



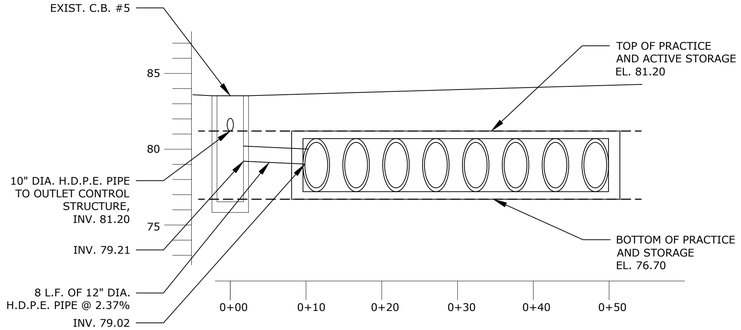
1 DRAINAGE PROFILE - CLEANOUT TO EXISTING CATCH BASIN #2

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 10'



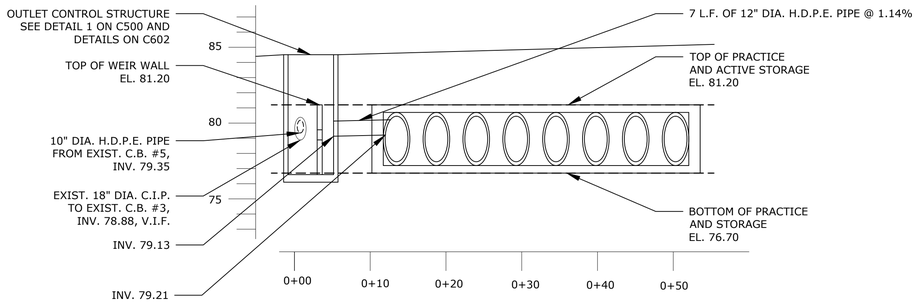
2 DRAINAGE PROFILE - EXISTING CATCH BASIN #5 TO OUTLET CONTROL STRUCTURE

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 10'



3 DRAINAGE PROFILE - EXISTING CATCH BASIN #5 TO SUBSURFACE RETENTION PRACTICE

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 10'



4 DRAINAGE PROFILE - SUBSURFACE RETENTION PRACTICE TO OUTLET CONTROL STRUCTURE

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 10'

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HDR

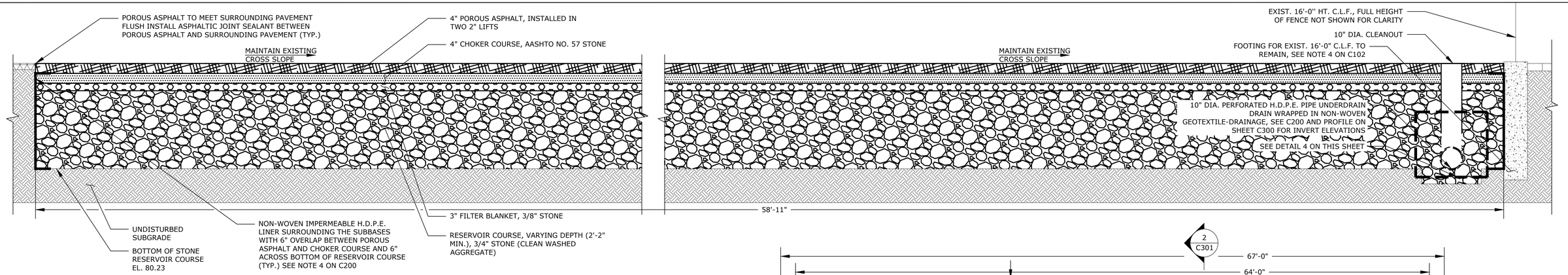
BLOCK 6792
LOT 99

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF POMONOK PLAYGROUND
FLUSHING BAY CSO TRIBUTARY AREA
KISSENA BOULEVARD BETWEEN 65TH AVENUE AND MELBOURNE AVENUE

DRAWING TITLE
SECTIONS AND PROFILES - 1

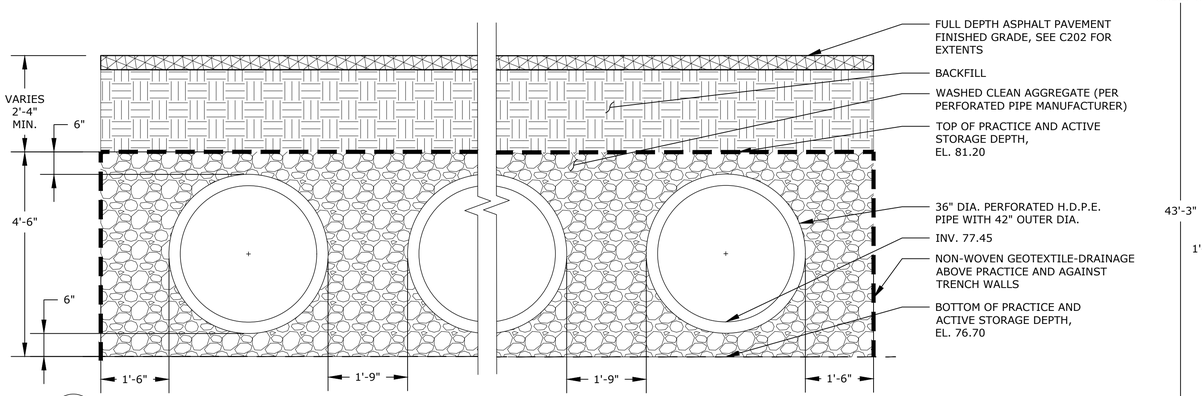
DESIGNED BY	DRAWN BY	CHECKED BY
G. GIDICSIN	K. NGUYEN	M. BRAUN

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	N.T.S.	C300	GQ-P-POMO
	DATE JUNE 2026		SHEET No. 11 OF 13 SHEETS



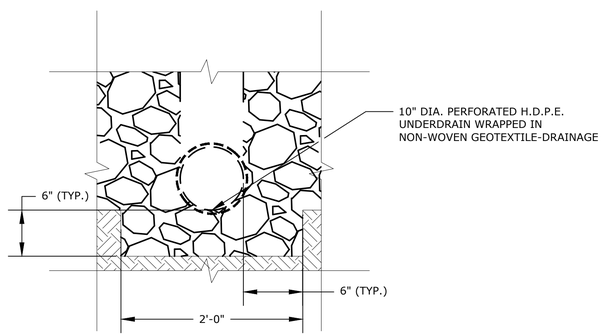
1 SECTION - POROUS ASPHALT PRACTICE

1"=2' 2 1 0 2'



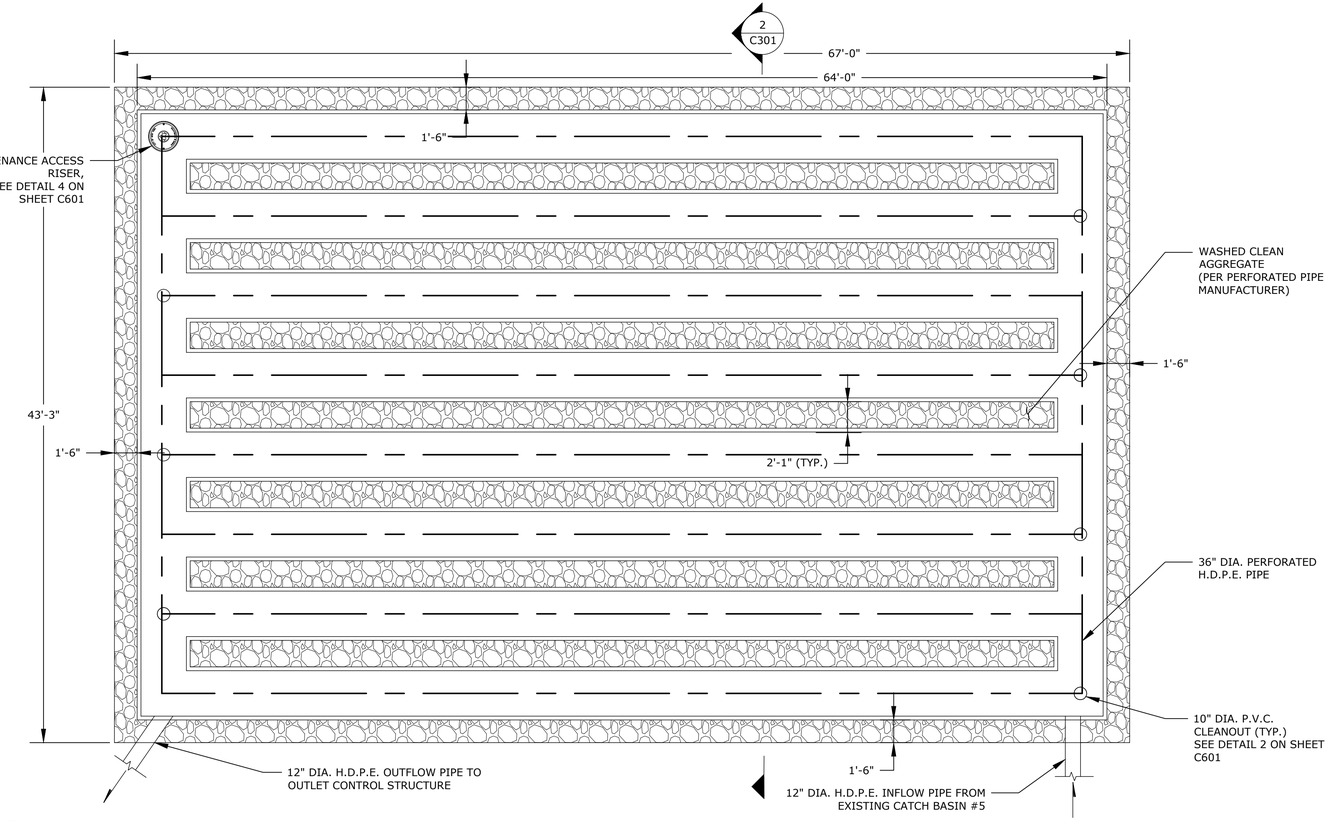
2 SECTION - SUBSURFACE RETENTION PRACTICE

1"=2' 2 1 0 2'



4 DETAIL - POROUS ASPHALT UNDERDRAIN

1"=1' 1 0.5 0 1'



3 SUBSURFACE RETENTION PRACTICE - LAYOUT

1"=5' 5 2.5 0 5'

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NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL: STATE OF NEW YORK · MICHAEL DAVID BRAUN · 101288 · LICENSED PROFESSIONAL ENGINEER

HDR

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF POMONOK PLAYGROUND
FLUSHING BAY CSO TRIBUTARY AREA
KISSENA BOULEVARD BETWEEN 65TH AVENUE AND MELBOURNE AVENUE

DRAWING TITLE
SECTIONS AND PROFILES - 2

DESIGNED BY	DRAWN BY	CHECKED BY
G. GIDICSIN	G. GIDICSIN	M. BRAUN

B-SCAN

SCALE: N.T.S.

DRAWING NO.: C301

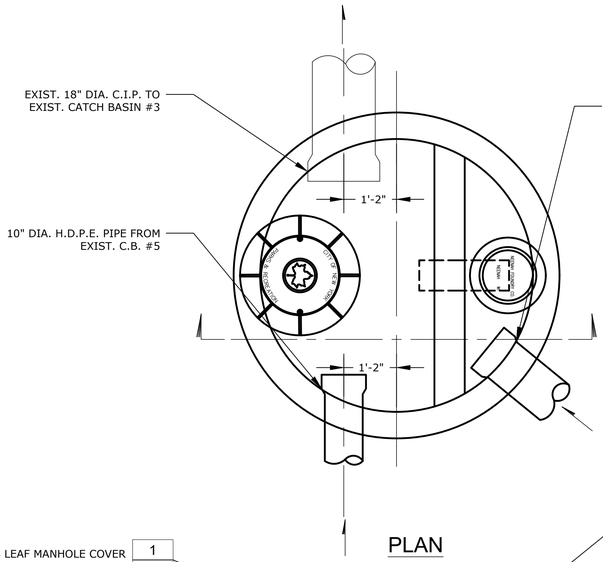
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DATE: JUNE 2026

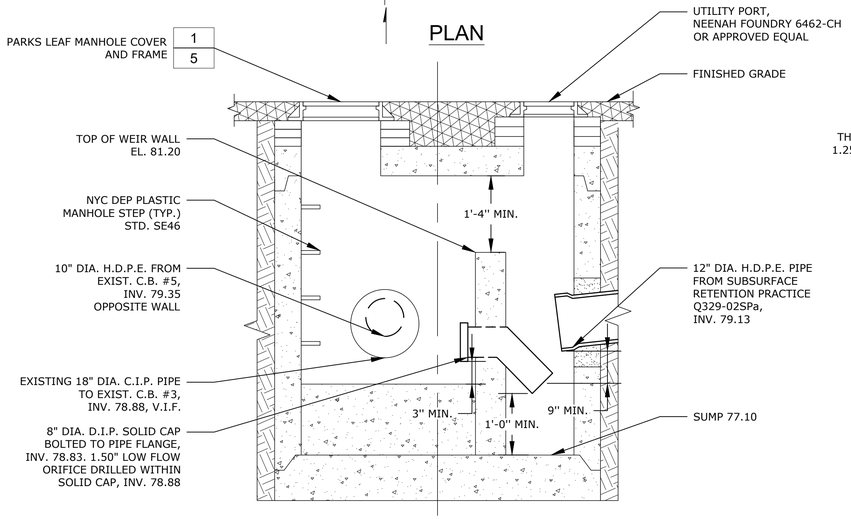
BLOCK: 6792

LOT: 99

SHEET No. 12 OF 13 SHEETS



PLAN

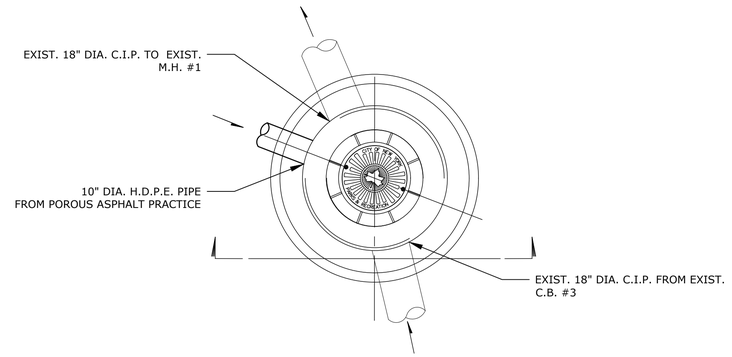


SECTION

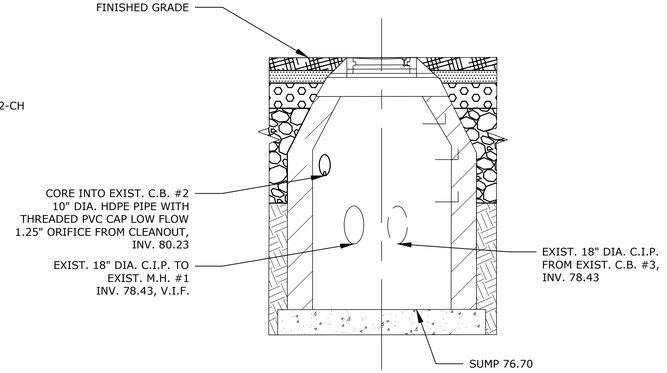
NOTES:
1. SEE C602 FOR OUTLET CONTROL STRUCTURE REINFORCEMENT DETAILS.
2. BOLTS SHALL BE INSTALLED SO THAT THE BOLT HEAD IS ON THE WEIR WALL SIDE.

1 TYPE 1: OUTLET CONTROL STRUCTURE

NOT TO SCALE



PLAN



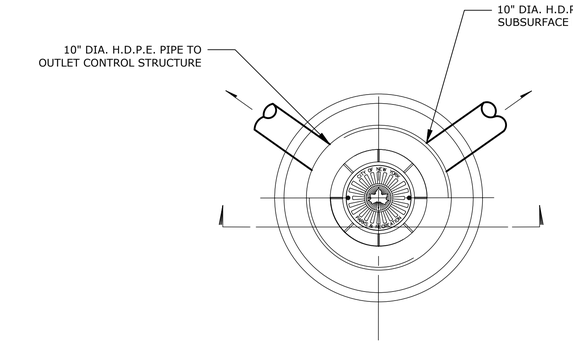
NOTES:

1. NYC PARKS STANDARD DETAIL 2 PROVIDED FOR REFERENCE ONLY.

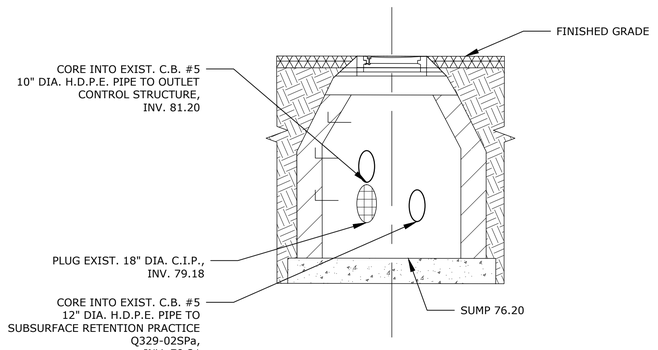
SECTION

2 EXISTING CATCH BASIN #2

2 1 0 2'
1"=2'



PLAN



NOTES:

1. NYC PARKS STANDARD DETAIL 2 PROVIDED FOR REFERENCE ONLY.

SECTION

3 EXISTING CATCH BASIN #5

2 1 0 2'
1"=2'

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Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL: STATE OF NEW YORK · MICHAEL DAVID BRAUN · LICENSED PROFESSIONAL ENGINEER · 101288

HDR

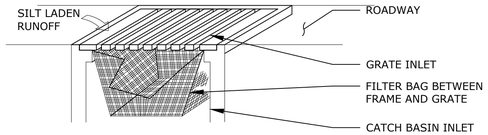
BLOCK 6792
LOT 99

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF POMONOK PLAYGROUND
FLUSHING BAY CSO TRIBUTARY AREA
KISSENA BOULEVARD BETWEEN 65TH AVENUE AND MELBOURNE AVENUE

DRAWING TITLE
DETAILS

DESIGNED BY	DRAWN BY	CHECKED BY
G. GIDICSIN	K. NGUYEN	M. BRAUN

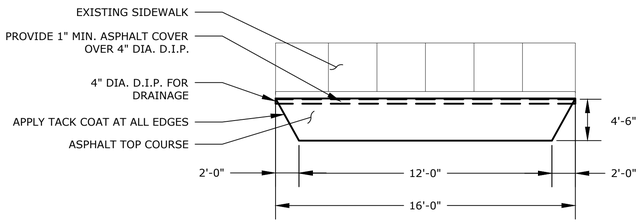
B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	N.T.S.	C500	GQ-P-POMO
	DATE: JUNE 2026		SHEET No. 13 OF 13 SHEETS



NOTE:
1. IN PAVED AREAS, USE FILTER BAG FOR INLET PROTECTION (NO MESH, BOX STONE REQUIRED).
2. FILTER BAG SHALL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE GEOTEXTILE AND SEWN BY A DOUBLE NEEDLE MACHINE USING A HIGH STRENGTH NYLON THREAD.
3. BAG SHALL BE SILTSACK® BY ACF ENVIRONMENTAL, OR EQUAL, AS APPROVED BY THE ENGINEER.

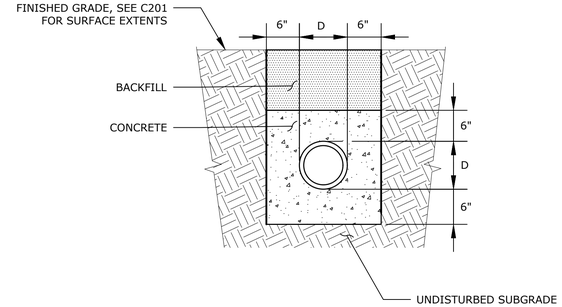
MAINTENANCE REQUIREMENTS:
1. INSPECT GRATE AND BAG ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT PRODUCING ½ INCH OR MORE OR RAIN. ANY DEBRIS OR SEDIMENT VISIBLE SHALL BE REMOVED IMMEDIATELY.
2. DAMAGE TO THE BAG SHALL BE REPAIRED IMMEDIATELY.
3. WHEN THE RESTRAINT CORD IS NO LONGER VISIBLE, THE BAG IS FULL AND SHOULD BE EMPTIED.
4. USE 1" DIAMETER REBAR TO SLIDE THROUGH THE LIFTING LOOPS/POCKETS ON EACH SIDE OF THE BAG TO FACILITATE LIFTING.
5. REMOVE SEDIMENT FROM BAG AND DISPOSE OF OFF-SITE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.

1 INLET PROTECTION
NOT TO SCALE



TEMPORARY ASPHALT RAMP NOTE:
1. UPON COMPLETION OF CONSTRUCTION, DAMAGED SIDEWALK FLAGS, CURBS AND/OR ROADWAY SHALL BE REPLACED IN KIND.

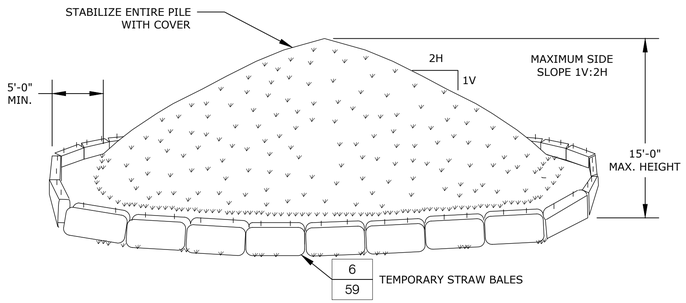
2 TEMPORARY ASPHALT RAMP
NOT TO SCALE



D = OUTSIDE DIAMETER OF PIPE

NOTES:
1. APPLIES TO CATCH BASIN CHUTE CONNECTIONS WITH LESS THAN 4FT COVER FROM FINAL GRADE TO OUTER TOP OF THE PIPE.

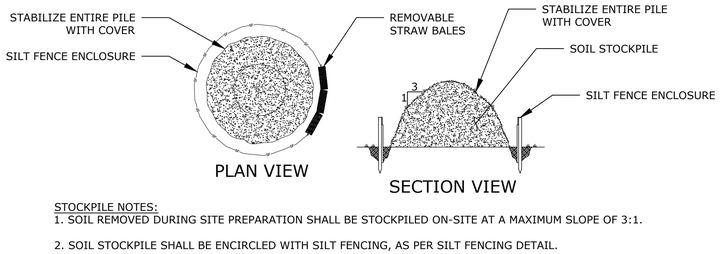
3 CONCRETE ENCASEMENT DETAIL
NOT TO SCALE



STOCKPILE NOTES:
1. THE GROUND SURFACE WHERE SOIL WILL BE STOCKPILED SHALL BE COVERED WITH A MINIMUM OF .25MM OR 2 LAYERS OF .15 MM H.D.P.E. BARRIER, OR AN EQUIVALENT MATERIAL. IN ADDITION, PRIOR TO THE END OF EACH WORK DAY, STOCKPILES SHALL BE COMPLETELY COVERED WITH THE H.D.P.E. BARRIER. STOCKPILE COVERS SHALL BE WEIGHTED OR SECURED BY APPROPRIATE MEANS. ALL SEAMS SHALL BE OVERLAPPED AND SEALED TO PREVENT THE LEACHING OF CONTAMINANTS. DAMAGED COVERS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR WITHIN 24 HOURS AFTER NOTIFICATION.

2. SEE TREE PROTECTION, STAGING, AND ACCESS PLAN FOR SUGGESTED STAGING AREA.

4 STOCKPILE ON PAVEMENT
NOT TO SCALE



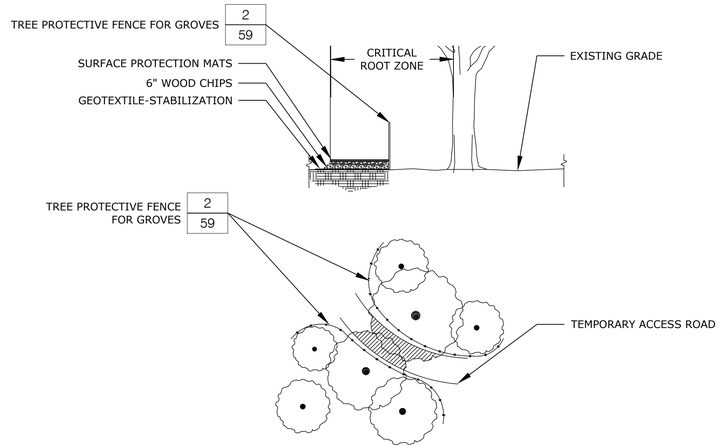
STOCKPILE NOTES:
1. SOIL REMOVED DURING SITE PREPARATION SHALL BE STOCKPILED ON-SITE AT A MAXIMUM SLOPE OF 3:1.

2. SOIL STOCKPILE SHALL BE ENCIRCLED WITH SILT FENCING, AS PER SILT FENCING DETAIL.

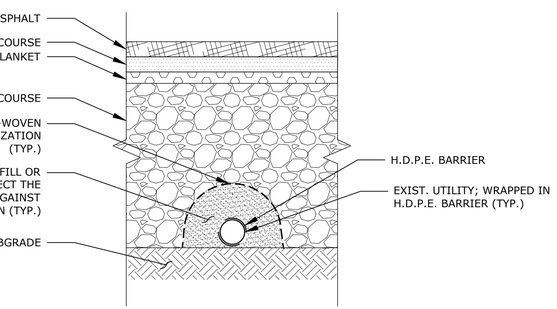
3. THE GROUND SURFACE WHERE SOIL WILL BE STOCKPILE SHALL BE COVERED WITH A MINIMUM OF .25MM OR 2 LAYERS OF .15 MM H.D.P.E. BARRIER, OR AN EQUIVALENT MATERIAL. IN ADDITION, PRIOR TO THE END OF EACH WORK DAY, STOCKPILES SHALL BE COMPLETELY COVERED WITH THE H.D.P.E. BARRIER. STOCKPILE COVERS SHALL BE WEIGHTED OR SECURED BY APPROPRIATE MEANS. ALL SEAM SHALL BE OVERLAPPED AND SEALED TO PREVENT THE LEACHING OF CONTAMINANTS. DAMAGED COVERS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR WITHIN 24 HOURS AFTER NOTIFICATION.

4. SEE TREE PROTECTION, STAGING, AND ACCESS PLAN FOR SUGGESTED STAGING AREA.

5 STOCKPILE ON GRASS
NOT TO SCALE



6 SURFACE PROTECTION
NOT TO SCALE



7 UTILITY PROTECTION
NOT TO SCALE

Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL
STATE OF NEW YORK · MICHAEL DAVID BRAUN · LICENSED PROFESSIONAL ENGINEER · 101288
HDR

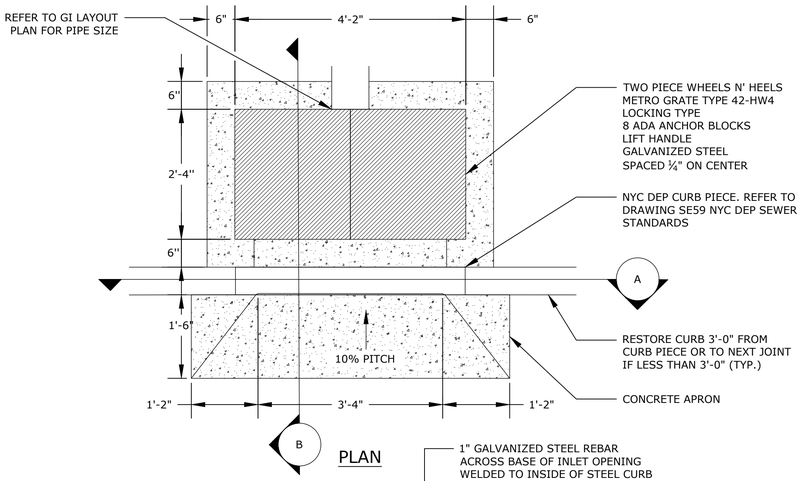
BLOCK
LOT

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF MULTIPLE SITES

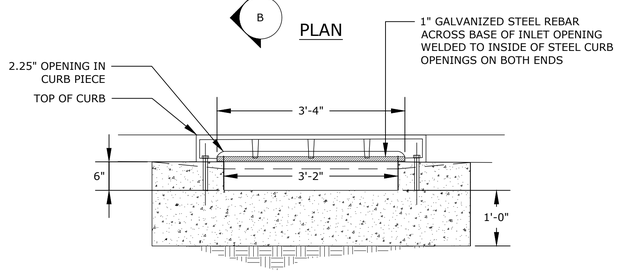
DRAWING TITLE
SITE DETAILS - 1

DESIGNED BY	DRAWN BY	CHECKED BY
S. RANA	S. RANA	M. BRODERICK

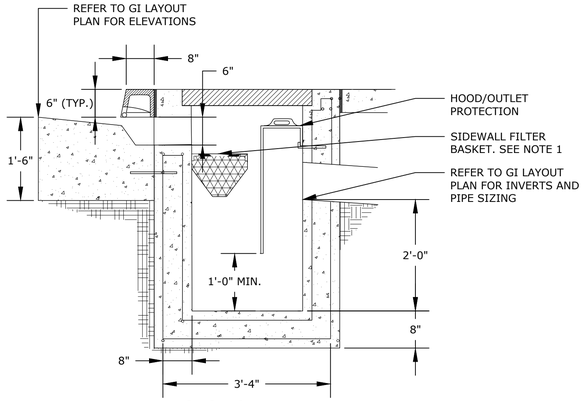
B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	N.T.S.	C600	
	DATE		SHEET No. 1 OF 3 SHEETS



PLAN



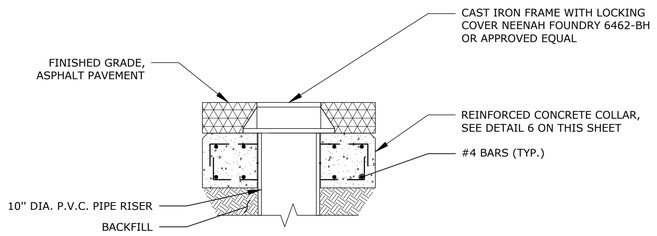
SECTION - A



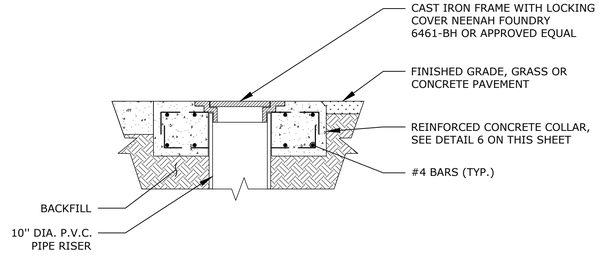
SECTION - B

NOTES:
1. ATTACH SIDEWALL FILTER 2" BELOW OPENING WITH BOLTS, OR PER MANUFACTURER INSTRUCTIONS.

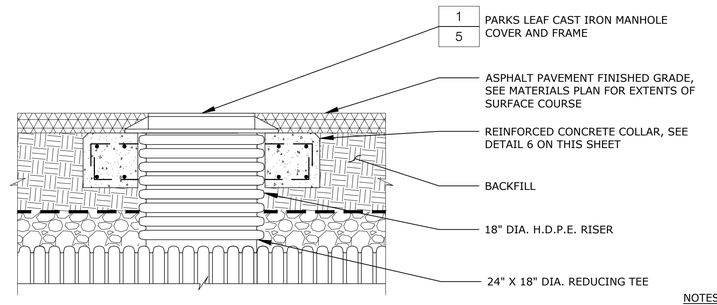
1 MODIFIED CURB INLET TYPE A
NOT TO SCALE



2 10" DIA. P.V.C. CLEANOUT WITH CONCRETE COLLAR BELOW GRADE
NOT TO SCALE

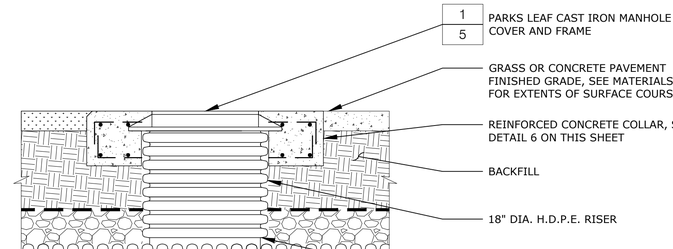


3 10" DIA. P.V.C. CLEANOUT WITH CONCRETE COLLAR AT GRADE
NOT TO SCALE



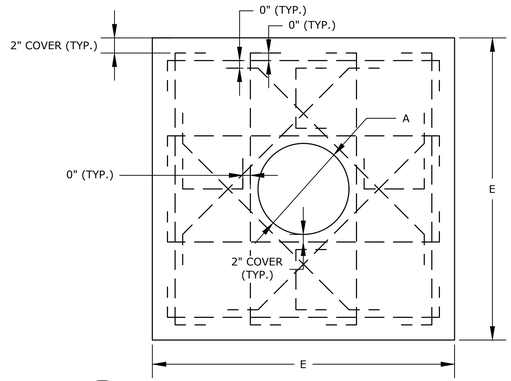
NOTES
CONCRETE COLLAR SHALL BE CONSTRUCTED SUCH THAT THE LIVE LOAD IS TRANSMITTED TO THE SURROUNDING SOIL AND NOT DIRECTLY TO THE RISER BASED ON ANTICIPATED LOADING.

4 MAINTENANCE ACCESS RISER WITH CONCRETE COLLAR BELOW GRADE
NOT TO SCALE

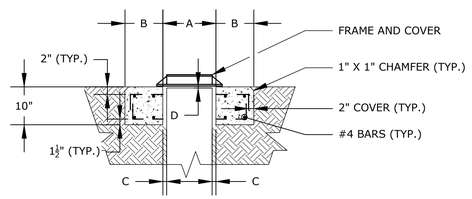


NOTES
CONCRETE COLLAR SHALL BE CONSTRUCTED SUCH THAT THE LIVE LOAD IS TRANSMITTED TO THE SURROUNDING SOIL AND NOT DIRECTLY TO THE RISER BASED ON ANTICIPATED LOADING.

5 MAINTENANCE ACCESS RISER WITH CONCRETE COLLAR AT GRADE
NOT TO SCALE



6 CONCRETE COLLAR REINFORCEMENT DETAIL
NOT TO SCALE



	DIMENSION				
CLEANOUT / RISER DIA.	A	B	C	D	E
18"	1'-11"	10"	1"	½"	3'-7"
10"	11"	10"	⅛"	0"	2'-7"

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL
STATE OF NEW YORK
MICHAEL DAVID BRAUN
LICENSED PROFESSIONAL ENGINEER
101288
HDR

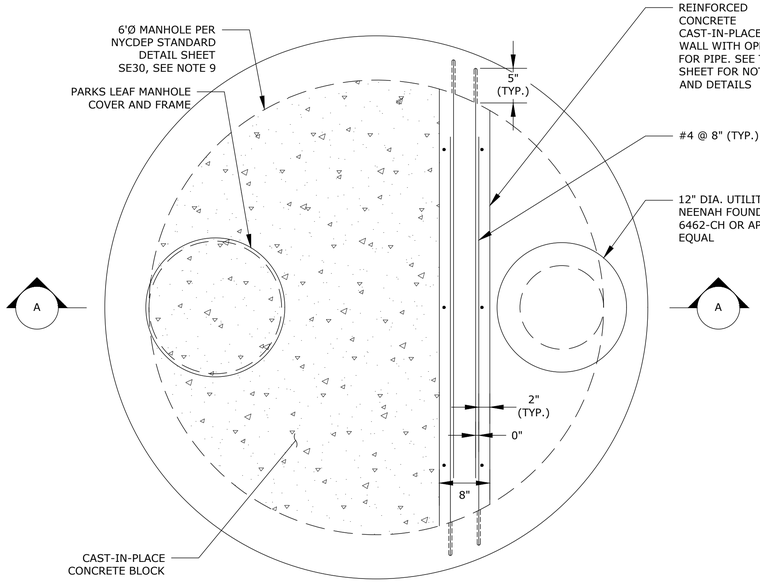
BLOCK
LOT

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF MULTIPLE SITES

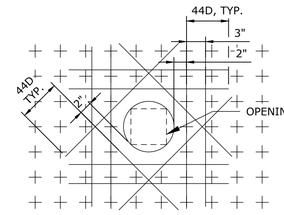
DRAWING TITLE
SITE DETAILS - 2

DESIGNED BY	DRAWN BY	CHECKED BY
S. RANA	S. RANA	M. BRODERICK

B-SCAN	SCALE	DRAWING NO.	CONTRACT NO.
	N.T.S.	C601	
	DATE		SHEET No. 2 OF 3 SHEETS



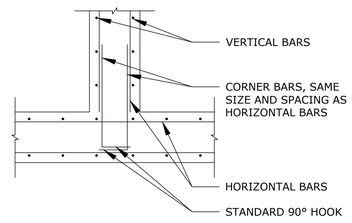
PLAN



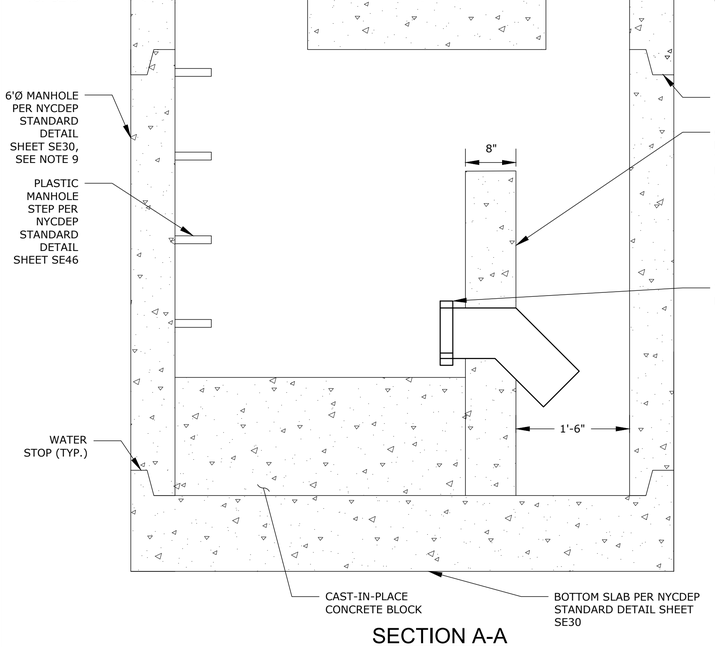
NOTES:

1. THIS DETAIL APPLIES TO OPENINGS 8"Ø AND LARGER. FOR SMALLER OPENINGS, BEND BARS OR ADJUST SPACING OF REINFORCEMENT TO CLEAR OPENING.
2. PLACE ADDITIONAL BARS OF THE SAME SIZE AT THE INTERRUPTED BARS ON EACH SIDE OF OPENING. QUANTITY OF ADDITIONAL BARS ON EACH SIDE SHALL EQUAL HALF THE QUANTITY OF INTERRUPTED BARS EXCEPT WHERE NOTED OTHERWISE.
3. PROVIDE ONE DIAGONAL BAR ON EACH SIDE OF OPENING OF THE SAME SIZE EQUAL TO MAIN REINFORCEMENT, TYPICAL ON EACH FACE.
4. WHERE INVERT OF OPENING IN WALL IS LESS THAN 44 BAR DIAMETERS FROM TOP OF SLAB, ADDITIONAL REINFORCEMENT ON EACH SIDE SHALL INCLUDE DOWELS EMBEDDED INTO SLAB WITH STANDARD 90 DEGREE HOOKS TO SPLICE WITH ADDITIONAL VERTICAL REINFORCEMENT. DOWELS SHALL ALSO STILL BE PROVIDED BELOW OPENING.
5. WHERE INVERT OF OPENING IN WALL OR SLAB IS CLOSER THAN 44 BAR DIAMETERS TO EDGE OF SLAB OR BOTTOM OF WALL, ADDITIONAL DIAGONAL BARS MAY BE TERMINATED TWO INCHES FROM EDGE OF SLAB OR BOTTOM OF WALL. DOWELS DO NOT HAVE TO BE PROVIDED TO SPLICE WITH DIAGONAL BARS.

2 TYPICAL REINFORCEMENT AT OPENINGS
N.T.S.



3 INTERSECTION TYPICAL WALL REINFORCING
N.T.S.

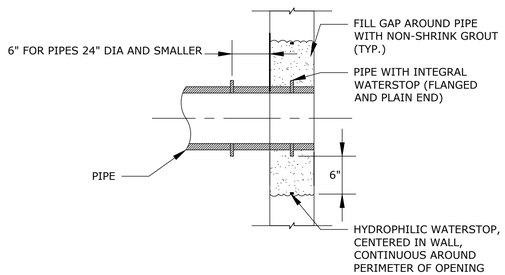


SECTION A-A

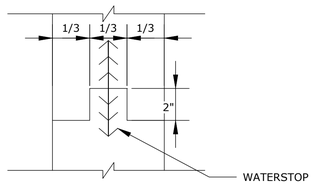
1 OUTLET CONTROL STRUCTURE DETAIL
1"=1' 0 6" 1' 2'

NOTES:

1. CUT AND BEND BARS AT ALL OPENINGS AND PENETRATIONS (TYP.).
2. TILT HOOKS AS REQUIRED TO MAINTAIN REQUIRED COVER.
3. PROVIDE STANDARD HOOK AT END OF ALL INTERRUPTED BARS.
4. PROVIDE 1 - #5 ADDITIONAL BAR ON EACH SIDE OF WALL OPENINGS.
5. REFER TO GREEN INFRASTRUCTURE LAYOUT PLAN FOR PIPE DIMENSIONS AND INVERTS.
6. REFER TO GREEN INFRASTRUCTURE LAYOUT PLAN FOR LOCATION OF OUTLET CONTROL STRUCTURE.
7. ALL REINFORCING BARS SHALL BE HOT-DIPPED GALVANIZED GRADE 60.
8. THE CONTRACTOR SHALL PROVIDE AND LOCATE THE LIFTING HOOKS.
9. 6'Ø MANHOLE PER NYCDEP STANDARD DETAIL SHEET SE30 SHALL NOT INCLUDE RISER SECTION.



4 TYPICAL WALL PIPE
N.T.S.



5 TYPICAL KEYWAY
N.T.S.

BASIC DEVELOPMENT LENGTH AND SPLICE LENGTH

FOR UNCOATED BARS IN TENSION

** BASED ON MATERIALS AND CONDITIONS AS FOLLOWS:
fy = 60,000 psi fc' = 5000 psi OR GREATER
CLEAR COVER≥ 1.5 INCHES NORMAL WEIGHT CONCRETE

BASIC DEVELOPMENT LENGTH ℓ_d				BAR SIZE	CLASS B SPLICE LENGTH 1.3 x ℓ_d			
CLEAR SPACING≥ 3"		CLEAR SPACING <3"			CLEAR SPACING≥ 3"		CLEAR SPACING <3"	
BASIC	TOP *	BASIC	TOP *		BASIC	TOP *	BASIC	TOP *
1'-0"	1'-0"	1'-0"	1'-4"	# 3	1'-0"	1'-3"	1'-4"	1'-8"
1'-0"	1'-3"	1'-7"	2'-1"	# 4	1'-3"	1'-8"	2'-1"	2'-9"
1'-3"	1'-7"	2'-4"	3'-0"	# 5	1'-7"	2'-0"	3'-0"	3'-11"
1'-6"	1'-11"	3'-1"	4'-0"	# 6	1'-11"	2'-5"	4'-0"	5'-2"
2'-5"	3'-1"	4'-11"	6'-4"	# 7	3'-1"	4'-0"	6'-4"	8'-3"
3'-0"	3'-11"	6'-0"	7'-9"	# 8	3'-11"	5'-1"	7'-9"	10'-1"
3'-8"	4'-9"	6'-9"	8'-9"	# 9	4'-9"	6'-3"	8'-9"	11'-4"
4'-6"	5'-10"	7'-7"	9'-10"	# 10	5'-10"	7'-7"	9'-10"	12'-9"
5'-5"	7'-0"	8'-5"	10'-11"	# 11	7'-0"	9'-1"	10'-11"	14'-2"

* TOP REINFORCEMENT IS ANY HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.

**FOR MATERIALS OR CONDITIONS DIFFERENT FROM THOSE STATED, LENGTHS SHOWN IN CHART SHALL BE MODIFIED TO CONFORM TO THE PROVISIONS OF ACI 318-14, SECTION 25.3.

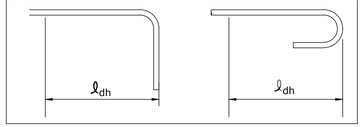
DEVELOPMENT LENGTH OF STANDARD HOOKS

FOR UNCOATED BARS IN TENSION

fy = 60,000 psi fc' = 5000 psi OR GREATER

BAR SIZE	DEVELOPMENT LENGTH, ℓ_{dh}	
	BASIC	W/ CONC. COVER *
#3	8"	6"
#4	10"	7"
#5	1'-0"	9"
#6	1'-3"	11"
#7	1'-5"	1'-0"
#8	1'-7"	1'-2"
#9	1'-10"	1'-4"
#10	2'-1"	1'-6"
#11	2'-3"	1'-7"

* SIDE COVER NORMAL TO PLANE OF HOOK AT LEAST 2 1/2"; AND FOR 90° HOOK, END COVER BEYOND OUTSIDE END OF HOOK AT LEAST 2".



GENERAL STRUCTURAL NOTES:

1. THESE NOTES ARE GENERAL AND SUPPLEMENT THE SPECIFICATIONS. THESE NOTES APPLY TO THE ENTIRE PROJECT UNLESS MODIFIED OR NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
2. STANDARD DETAILS SHALL BE USED WHEN REFERRED TO OR WHEN NO MORE RESTRICTIVE OR DIFFERENT DETAILS ARE SHOWN ON THE DRAWINGS.
3. DESIGN SHALL BE ACCORDANCE WITH AND CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF NEW YORK CITY BUILDING CODE. THE DESIGN LOADS AND OTHER DESIGN VALUES GIVEN IN NOTES WERE USED FOR DESIGN OF STRUCTURES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
4. LIVE LOAD:

STRUCTURE	ROOF
MANHOLE	HS-20

5. STRUCTURAL DIMENSIONS NOT SHOWN BUT CONTROLLED BY OR RELATED TO EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR WITH THE MANUFACTURER PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION IN THE FIELD AS REQUIRED FOR NEW WORK. IF A CONFLICT IS FOUND BETWEEN DIFFERENT PORTIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. CONTINUED CONSTRUCTION OF THE AREA IN CONFLICT SHALL BE AT THE CONTRACTOR'S OWN RISK UNTIL THE CONFLICT IS RESOLVED.
7. EQUIPMENT ANCHOR BOLT SIZES, TYPES, EMBEDMENT AND PATTERNS SHALL BE VERIFIED WITH THE MANUFACTURER. ALL BOLT PATTERNS SHALL BE TEMPLATED TO INSURE ACCURACY OF PLACEMENT.
8. STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH OTHER CONTRACT DRAWINGS AND MANUFACTURER'S SHOP DRAWINGS.
9. STRUCTURES SHALL BE DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURE. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND TEMPORARY SUPPORTS WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. OVERSTRESSING ANY STRUCTURAL ELEMENT IS PROHIBITED.
10. IF CONTRACTOR DESIRES TO TEMPORARILY PLACE OR MOVE LOADS ON OR ADJACENT TO EXISTING STRUCTURES OR UTILITIES DURING CONSTRUCTION PROCESS, CONTRACTOR IS EXCLUSIVELY RESPONSIBLE FOR MAINTAINING STRUCTURAL INTEGRITY AND AVOIDING OVERSTRESSING AND DAMAGING EXISTING STRUCTURES AND UTILITIES. CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS AND DRAWINGS VERIFYING PROPOSED CONSTRUCTION INCLUDING APPLICATION OF TEMPORARY CONSTRUCTION LOADS WILL NOT OVERSTRESS OR DAMAGE EXISTING STRUCTURES AND UTILITIES. DRAWINGS AND CALCULATIONS SHALL BE SEALED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF NEW YORK.
11. NO BACKFILL SHALL BE PLACED AGAINST ANY SUBSTRUCTURE WALLS UNLESS ALL ADJACENT SUPPORTING ELEMENTS HAVE ACHIEVED DESIGN STRENGTH, OR WALLS HAVE BEEN PROPERLY BRACED, AND IN ANY CASE NOT SOONER THAN 28 DAYS AFTER THE PLACING OF CONCRETE UNLESS APPROVED BY THE ENGINEER. SUPPORTING ELEMENTS SHALL INCLUDE ADJACENT WALLS, SLABS, BEAMS AND COLUMNS.
12. LEAKAGE TESTING OF HYDRAULIC STRUCTURES SHALL NOT BEGIN UNTIL ALL STRUCTURAL ELEMENTS HAVE REACHED THE SPECIFIED MINIMUM CONCRETE STRENGTH. BACKFILL SHALL NOT BE PLACED AROUND ANY HYDRAULIC STRUCTURE UNTIL THE LEAKAGE TEST HAS BEEN COMPLETED UNLESS APPROVED BY THE ENGINEER.

PRECAST CONCRETE:

1. PRECAST VAULTS AND MANHOLES SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK. STRUCTURAL DRAWINGS SHALL INDICATE DESIGN IS IN COMPLIANCE WITH THE NEW YORK CITY BUILDING CODE.
2. PRECAST CONCRETE STRUCTURES SHALL BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATION 33 05 61, 03 04 00, 03 48 00, AND 33 46 16. ALL JOINTS SHALL BE SEALED IN ACCORDANCE TO SPECIFICATION.

CONCRETE

1. DESIGN OF CONCRETE ELEMENTS INCLUDING WALLS, FORMED SLABS, BEAMS, AND COLUMNS IS IN ACCORDANCE WITH ACI 318 (CODE REQUIREMENTS FOR STRUCTURAL CONCRETE) AND 350 (CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES).
2. FOR CONCRETE MIX DESIGN SEE SPECIFICATION SECTION 03300.
3. CONCRETE STRENGTH CLASSES (28-DAY COMPRESSIVE STRENGTH):
   A. CLASS 50 PRECAST (5,000 PSI) : ALL PRECAST ELEMENTS AND STRUCTURES.
   B. CLASS 45 CONCRETE (5,000 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE USED FOR CONCRETE FILL. ALL BAR REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60. WHERE REINFORCEMENT IS TO BE WELDED IN ACCORDANCE WITH AWS D1.4, ASTM A706 GRADE 60 SHALL BE USED. WELDED WIRE FABRIC 4. SHALL CONFORM TO ASTM A185.
5. CONCRETE COVER FOR REINFORCING (UNLESS NOTED OTHERWISE ON THE DRAWINGS):
   A. CONCRETE DEPOSITED DIRECTLY AGAINST SOIL: 3"
   B. ALL OTHER LOCATIONS: 2"
6. SPLICES SHALL B CLASS "B" CONFORMING TO THE PROVISIONS OF ACI 318 UNLESS NOTED OTHERWISE. SPLICE LENGTH FOR TWO DIFFERENT SIZED BARS TO BE LAP SPLICED TOGETHER SHALL BE THE LENGTH OF THE LARGER BAR UNLESS NOTED OTHERWISE.
7. CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS. CONSTRUCTION JOINTS NOT SHOWN SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE APPROVAL OF THE ENGINEER PRIOR TO SUBMITTING REBAR SHOP DRAWINGS.
8. ALL JOINTS WHICH ARE IN MEMBERS IN CONTACT WITH LIQUID OR BELOW GRADE SHALL HAVE A WATERSTOP. CONSTRUCTION JOINTS SHALL HAVE A 6" PVC RIBBED WATERSTOP.
9. SLABS WITH SLOPING SURFACES SHALL HAVE THE INDICATED SLAB THICKNESS MAINTAINED AS THE MINIMUM SLAB BOTTOMS CAN EITHER SLOPE WITH THE TOP SURFACE OR BE LEVEL. REINFORCEMENT IN SLABS WITH SLOPING SURFACES SHALL BE PLACED AT THE REQUIRED CLEARANCE FROM THE SLAB SURFACE.
10. ALL EXPOSED CORNERS SHALL HAVE A ¾" CHAMFER OR A ½" RADIUS TOOLED CORNER.
11. EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DOCUMENTS, SHALL BE PROVIDED FOR PRIOR TO PLACING CONCRETE.
12. REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY MENTAL PIPE, PIPE FLANGE, METAL CONDUIT, OR OTHER METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM CLEARANCE OF 2" SHALL BE PROVIDED.
13. DOWELS, ANCHOR BOLTS, PIPES, WATERSTOPS AND OTHER EMBEDDED ITEMS SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.
14. CONDUITS AND OTHER SIMILAR ITEMS EMBEDDED IN OR PENETRATING THROUGH CONCRETE SHALL BE SPACED ON CENTER NOT LESS THAN 3 TIMES THEIR OUTSIDE DIMENSION, NOT LESS THAN 2 ½" CLEAR. WHEN SUCH ITEMS ARE EMBEDDED IN WALLS OR SLABS, THEY SHALL NOT OCCUPY MORE THAN 1/3 OF THE MEMBER THICKNESS.
15. DRILL IN ADHESIVE DOWELS AND CONCRETE ANCHORS (WHERE DOWELS OR ANCHORS ARE SHOWN TO BE PLACED INTO HARDENED CONCRETE):
   A. THE DRILL HOLE DIAMETER SHALL BE NO LARGER THAN 1/8" GREATER THAN THE DIAMETER OF THE REINFORCING BAR AT THE DEFORMATIONS FOR DOWELS. THE HOLE DIAMETER SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR ANCHORS.
   B. THE MINIMUM EMBEDMENT SHALL BE 12 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
   C. ADJUST THE LOCATION OF THE DOWEL OR ANCHOR AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS. IF THE LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER. CONTRACTOR SHALL USE NON-DESTRUCTIVE MEANS TO FIELD LOCATE REINFORCEMENT PRIOR TO DRILLING HOLES FOR DOWELS OR ANCHORS.
16. CLEAR DISTANCE FROM ANCHOR RODS TO ANY CONCRETE EDGE SHALL BE 4" MINIMUM UNLESS NOTED OTHERWISE.
17. CONCRETE COMPRESSIVE STRENGTH TESTS SHALL BE AVAILABLE ON THE JOB SITE FOR REVIEW BY THE ENGINEER.

NYC Environmental Protection

CITY OF NEW YORK
ENVIRONMENTAL PROTECTION
Bureau of Environmental Planning and Analysis

NYC Parks

CITY OF NEW YORK
PARKS & RECREATION
Forestry, Horticulture and Natural Resources

NO.	DATE	ISSUED FOR	BY

SEAL
STATE OF NEW YORK
MICHAEL DAVID BRAUN
101288
LICENSED PROFESSIONAL ENGINEER

HDR

BLOCK

LOT

PROJECT TITLE
GREEN INFRASTRUCTURE RETROFIT OF MULTIPLE SITES

DRAWING TITLE
SITE DETAILS - 3

DESIGNED BY	DRAWN BY	CHECKED BY
F. NOORAI	S. KUMAR	J. PARK

B-SCAN

SCALE N.T.S.

DATE

DRAWING NO. C602

CONTRACT NO.

SHEET No. 3 OF 3 SHEETS