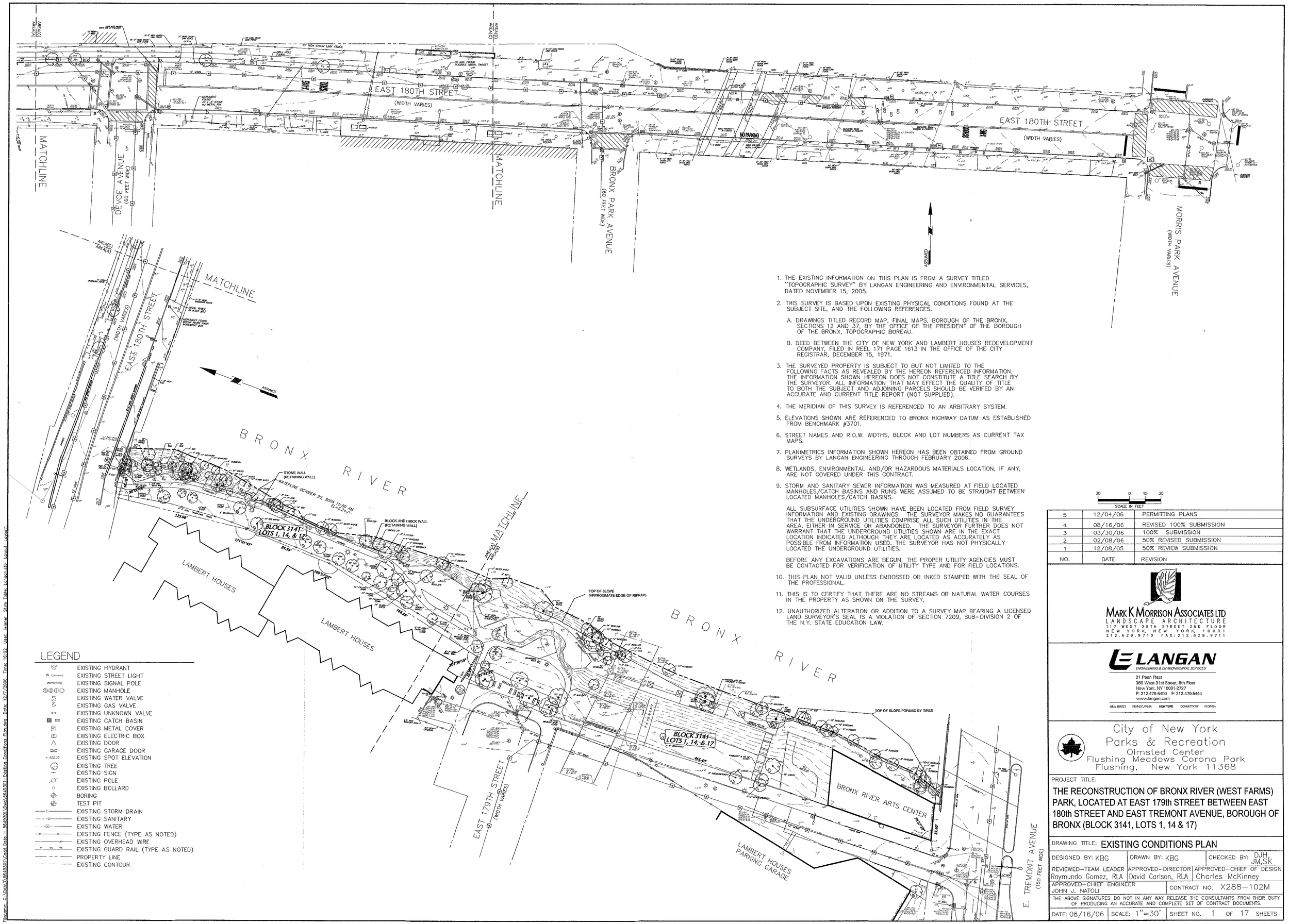

1. THE EXISTING INFORMATION ON THIS PLAN IS FROM A SURVEY TITLED "TOPOGRAPHIC SURVEY" BY LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, DATED NOVEMBER 15, 2005.

2. THIS SURVEY IS BASED UPON EXISTING PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, AND THE FOLLOWING REFERENCES.

   A. DRAWINGS TITLED RECORD MAP, FINAL MAPS, BOROUGH OF THE BRONX, SECTIONS 12 AND 37, BY THE OFFICE OF THE PRESIDENT OF THE BOROUGH OF THE BRONX, TOPOGRAPHIC BUREAU.

   B. DEED BETWEEN THE CITY OF NEW YORK AND LAMBERT HOUSES REDEVELOPMENT COMPANY, FILED IN REEL 171 PAGE 1613 IN THE OFFICE OF THE CITY REGISTRAR, DECEMBER 15, 1971.

3. THE SURVEYED PROPERTY IS SUBJECT TO BUT NOT LIMITED TO THE FOLLOWING FACTS AS REVEALED BY THE HEREON REFERENCED INFORMATION. THE INFORMATION SHOWN HEREON DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR. ALL INFORMATION THAT MAY EFFECT THE QUALITY OF TITLE TO BOTH THE SUBJECT AND ADJOINING PARCELS SHOULD BE VERIFIED BY AN ACCURATE AND CURRENT TITLE REPORT (NOT SUPPLIED).

4. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO AN ARBITRARY SYSTEM.

5. ELEVATIONS SHOWN ARE REFERENCED TO BRONX HIGHWAY DATUM AS ESTABLISHED FROM BENCHMARK #3701.

6. STREET NAMES AND R.O.W. WIDTHS, BLOCK AND LOT NUMBERS AS CURRENT TAX MAPS.

7. PLANIMETRICS INFORMATION SHOWN HEREON HAS BEEN OBTAINED FROM GROUND SURVEYS BY LANGAN ENGINEERING THROUGH FEBRUARY 2006.

8. WETLANDS, ENVIRONMENTAL AND/OR HAZARDOUS MATERIALS LOCATION, IF ANY, ARE NOT COVERED UNDER THIS CONTRACT.

9. STORM AND SANITARY SEWER INFORMATION WAS MEASURED AT FIELD LOCATED MANHOLES/CATCH BASINS AND RUNS WERE ASSUMED TO BE STRAIGHT BETWEEN LOCATED MANHOLES/CATCH BASINS.

   ALL SUBSURFACE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION USED. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

   BEFORE ANY EXCAVATIONS ARE BEGUN, THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.

10. THIS PLAN NOT VALID UNLESS EMBOSSED OR INKED STAMPED WITH THE SEAL OF THE PROFESSIONAL.

11. THIS IS TO CERTIFY THAT THERE ARE NO STREAMS OR NATURAL WATER COURSES IN THE PROPERTY AS SHOWN ON THE SURVEY.

12. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

30 0 15 30
SCALE IN FEET

NO.	DATE	REVISION
5	12/04/06	PERMITTING PLANS
4	08/16/06	REVISED 100% SUBMISSION
3	03/30/06	100% SUBMISSION
2	02/08/06	50% REVISED SUBMISSION
1	12/08/05	50% REVIEW SUBMISSION

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Flushing, New York 11368

PROJECT TITLE:

THE RECONSTRUCTION OF BRONX RIVER (WEST FARMS) PARK, LOCATED AT EAST 179th STREET BETWEEN EAST 180th STREET AND EAST TREMONT AVENUE, BOROUGH OF BRONX (BLOCK 3141, LOTS 1, 14 & 17)

DRAWING TITLE: EXISTING CONDITIONS PLAN

DESIGNED BY: KBG	DRAWN BY: KBG	CHECKED BY: DJH, JM,SK
REVIEWED-TEAM LEADER Raymundo Gomez, RLA	APPROVED-DIRECTOR David Carlson, RLA	APPROVED-CHIEF OF DESIGN Charles McKinney
APPROVED-CHIEF ENGINEER JOHN J. NATOLI	CONTRACT NO. X288-102M	

THE ABOVE SIGNATURES DO NOT IN ANY WAY RELEASE THE CONSULTANTS FROM THEIR DUTY OF PRODUCING AN ACCURATE AND COMPLETE SET OF CONTRACT DOCUMENTS.

DATE: 08/16/06 | SCALE: 1"=30' | SHEET NO. 1 OF 17 SHEETS

Filename: G:\Data3\569301\Cadd Data - 569301\Dwg\569301-Existing Conditions Plan.dwg Date: 12/7/2006 Time: 15:07 User: jwilener Style Table: Langan.stb Layout: Layout1

NOTES:

1. THE EXISTING INFORMATION ON THIS PLAN IS FROM A SURVEY TITLED "TOPOGRAPHIC SURVEY BY LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, DATED NOVEMBER 19, 2005.

2. ELEVATIONS SHOWN ARE REFERENCED TO THE BRONX BOROUGH DATUM.

3. WATER ELEVATIONS FOR THE 100-YEAR AND 500-YEAR STORM EVENTS WERE OBTAINED FROM THE FLOOD INSURANCE STUDY FOR THE CITY OF NEW YORK BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY DATED MAY 16, 1983

5. AVERAGE WATER DEPTH IN VICINITY OF PROPOSED ACTIVITY IS APPROXIMATELY 2 FEET

5. EXISTING RIPRAP SHORELINE IS TO REMAIN. NEW RIPRAP SHALL BE INSTALLED TO FILL IN AREAS WITH EXPOSED SOIL UP TO THE 2-YEAR WATER ELEVATION OR TO THE EXISTING TREE-LINE AS INDICATED. USE NATURAL STONE WITH D50 = 12" AS NEEDED FOR REPAIRS. NEW STONE SHALL BE SELECTED TO MATCH EXISTING STONE OR PER RECOMMENDATIONS BY NYC DEPARTMENT OF PARKS AND RECREATION, NATURAL RESOURCES GROUP REPRESENTATIVE SHALL BE ON-SITE TO INSPECT INSTALLATION OF RIPRAP

6. LANGAN WETLAND SCIENTISTS COMPLETED SITE INSPECTION ON 7 OCTOBER 2005. NO FRESHWATER WETLANDS WERE OBSERVED ON SITE. IN ADDITION THERE ARE NO NYSDEC MAPPED FRESHWATER WETLANDS ON SITE

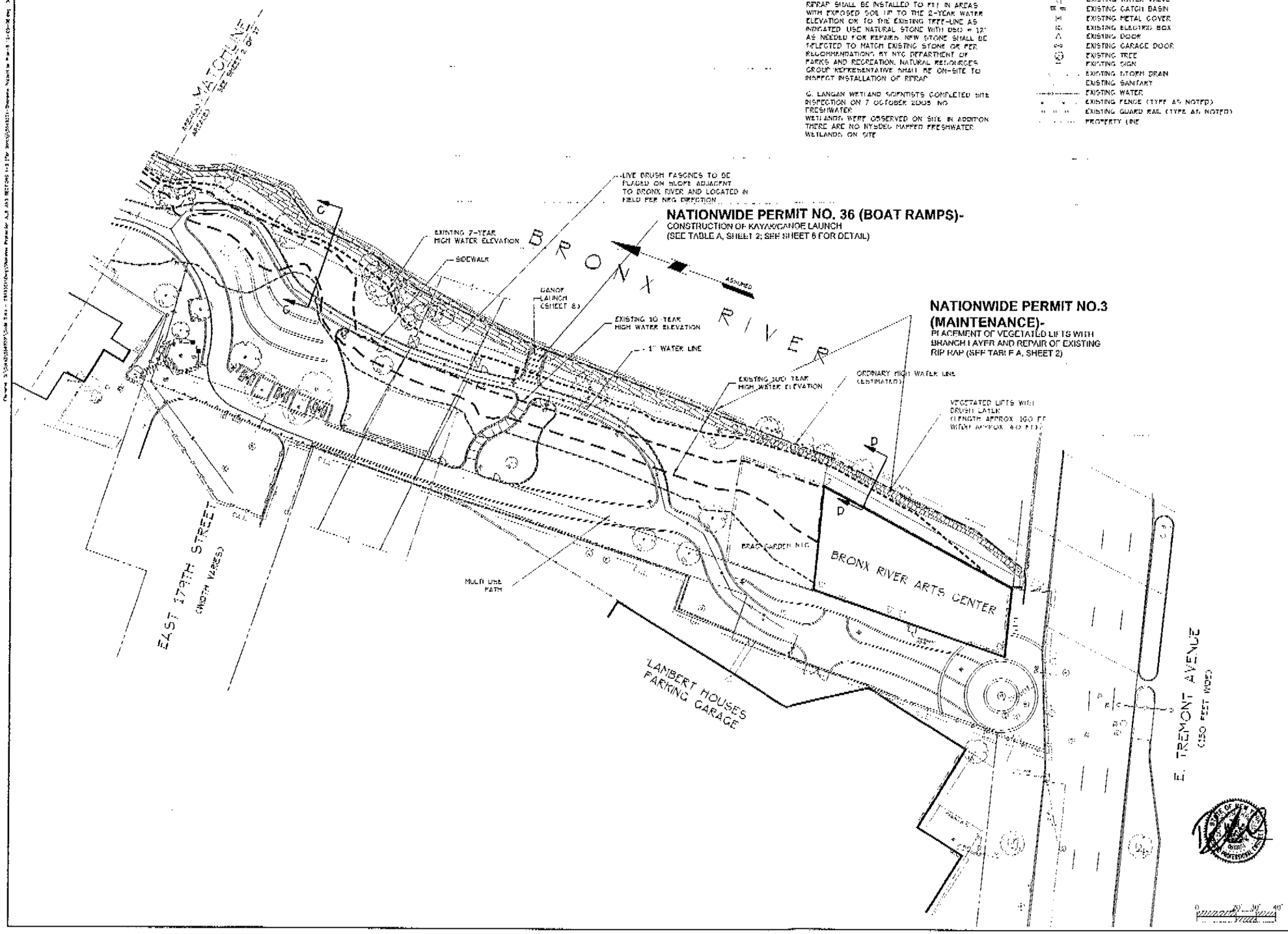
LEGEND

EXISTING

- ORDINARY HIGH WATER (ESTIMATED)
- EXISTING 2-YEAR HIGH WATER ELEVATION
- EXISTING 10-YEAR HIGH WATER ELEVATION
- EXISTING 100-YEAR HIGH WATER ELEVATION
- EXISTING 500-YEAR HIGH WATER ELEVATION (ESTIMATED)
- EXISTING STREET LIGHT
- EXISTING MANHOLE
- EXISTING WATER VALVE
- EXISTING CATCH BASIN
- EXISTING METAL COVER
- EXISTING ELECTRIC BOX
- EXISTING DOOR
- EXISTING GARAGE DOOR
- EXISTING TREE
- EXISTING SIGN
- EXISTING STORM DRAIN
- EXISTING SANITARY
- EXISTING WATER
- EXISTING FENCE (TYPE AS NOTED)
- EXISTING GUARD RAIL (TYPE AS NOTED)
- PROPERTY LINE

PROPOSED

- LIVE BRUSH FASCINES
- EXISTING RIPRAP REPAIRED
- VEGETATED LIFTS WITH BRUSH LAYER
- CONTRACT LIMIT LINE
- CONSTRUCTION FENCE
- PROPOSED DECORATIVE STEEL FENCE
- PROPOSED WATER LINE
- PROPOSED STEEL PAIR FENCE 7' HEIGHT
- PROPOSED PIPE RAIL FENCE
- GAMETABLE W/ 8' 1964 WORLD'S FAIR BENCH END ARM RESTS ONLY
- DRINKING FOUNTAIN TYPE C
- TRASH RECEPTACLE
- SINGLE GATE
- DOUBLE GATE
- BIKE RACK
- PARK IDENTIFICATION PLAQUE
- REMOVABLE STEEL BOLLARD
- FIXED STEEL BOLLARD
- GRANITE IDENTIFICATION PYLON
- PROPOSED LIGHT POSTS NYSDOT STANDARD LIGHTING - LUMEC "CANDELA" MODEL CANP101-TM



NO.	DATE	REVISION / SUBMITTAL
6	12/04/06	PERMITTING PLANS
5	11/10/06	FINAL SUBMISSION
4	08/23/06	100% REVISED SUBMISSION (PLAN CHANGE)
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PROJECT TITLE:
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D.O.T. PIN# X060.45

DRAWING TITLE: SHORELINE PROTECTION PLAN - AREA(B)

DESIGNED BY KBC	DRAWN BY KBC	CHECKED BY DJH, JM, SK
REVIEWED TEAM LEADER Raymundo Gomez, RLA	APPROVED DIRECTOR David Carlson, RLA	APPROVED-CHIEF OF DESIGN Charles McKinney
APPROVED CHIEF ENGINEER JOHN J. NAIDOO		CONTRACT NO. X288 102M

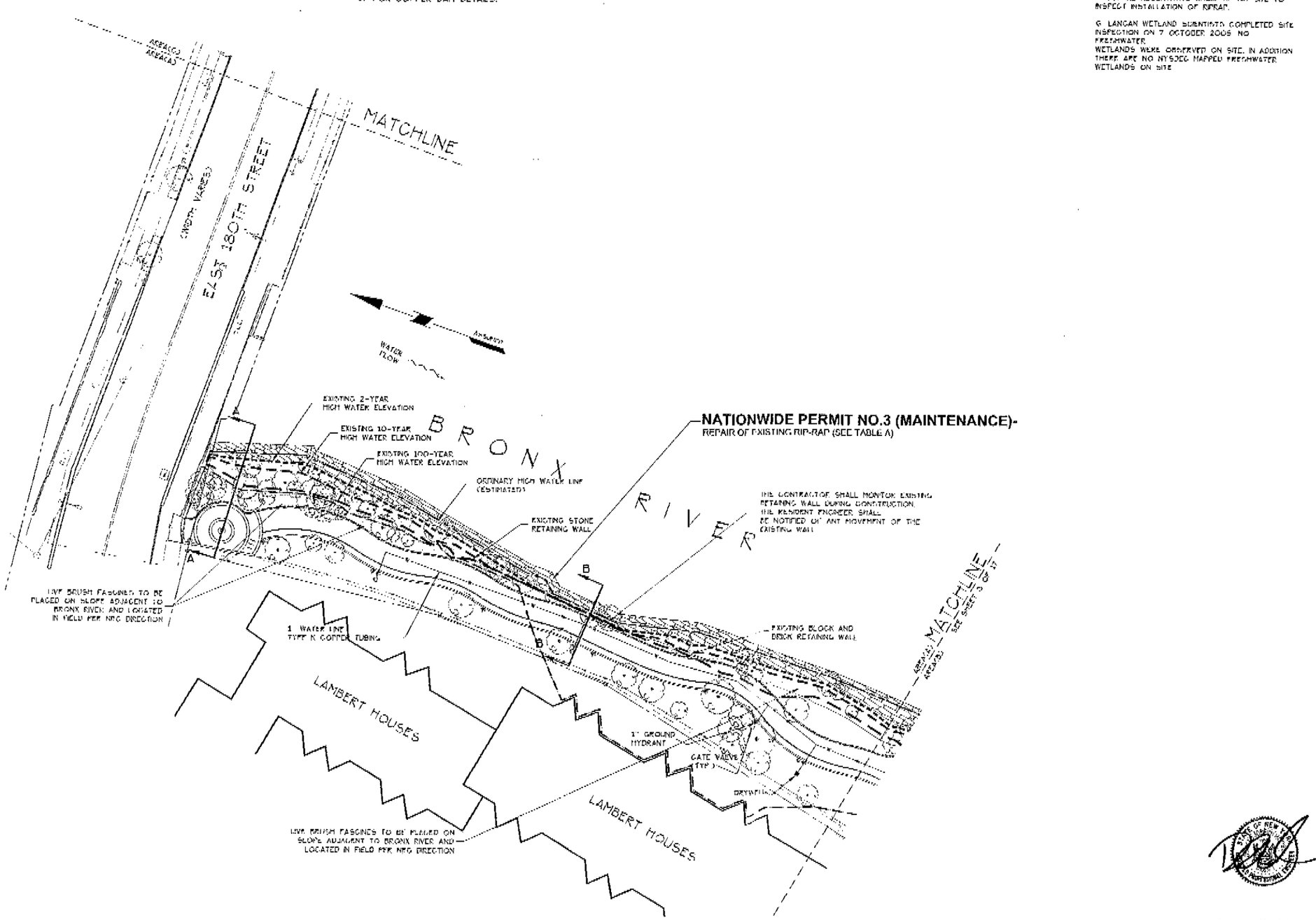
THE ABOVE SIGNATURES DO NOT IN ANY WAY RELEASE THE CONSULTANTS FROM THEIR DUTY OF PRODUCING AN ACCURATE AND COMPLETE SET OF CONTRACT DOCUMENTS

DATE 11/10/06 | SCALE 1"=20' | SHEET NO. 5 OF 17 SHEETS

Table A
Impacts Below Ordinary High Water

Permit	Estimated Area Impacted Below Ordinary High Water	Estimated Volume of Fill Placed Below Ordinary High Water
Nationwide Permit No. 3 - Maintenance	720 ft² (0.017 Acres)	27 cy³
Nationwide Permit No. 36 - Boat Ramps	33 ft² (0.0000 Acres)	0.37 cy³

DOES NOT INCLUDE TEMPORARY IMPACTS-FROM COFFER DAM (IF NECESSARY) SEE SHEET 17 FOR COFFER DAM DETAILS.



NOTES

1. THE EXISTING INFORMATION ON THIS PLAN IS FROM A SURVEY TITLED "TOPOGRAPHIC SURVEY" BY LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, DATED NOVEMBER 15, 2005.

2. ELEVATIONS SHOWN ARE REFERENCED TO THE BRONX BOROUGH DATUM.

3. WATER ELEVATIONS FOR THE 100-YEAR AND 500-YEAR STORM EVENTS WERE OBTAINED FROM THE FLOOD INSURANCE STUDY FOR THE CITY OF NEW YORK BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY DATED MAY 16, 1983.

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9. LANGAN WETLAND SCIENTISTS COMPLETED SITE INSPECTION ON 7 OCTOBER 2005. NO FRESHWATER WETLANDS WERE OBSERVED ON SITE. IN ADDITION THERE ARE NO NYSDEC MAPPED FRESHWATER WETLANDS ON SITE.

LEGEND

EXISTING

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- EXISTING 2-YEAR HIGH WATER ELEVATION
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- EXISTING 500-YEAR HIGH WATER ELEVATION
- EXISTING STREET LIGHT
- EXISTING MANHOLE
- EXISTING WATER VALVE
- EXISTING METAL COVER
- EXISTING TREE
- EXISTING SIGN
- EXISTING FENCE (TYPE AS NOTED)
- PROPERTY LINE

PROPOSED

- LIVE BRUSH FASCINES
- EXISTING RIPRAP - REPAIRED
- CL CONTRACT LIMIT LINE
- CF CONSTRUCTION FENCE
- PROPOSED DECORATIVE STEEL FENCE
- WATER LINE
- TRASH RECEPTACLE
- BIKE RACK
- REMOVABLE STEEL BOLLARD
- GRANITE IDENTIFICATION PYLON
- PROPOSED LIGHT POSTS NYSDOT STANDARD LIGHTING - LUMEC "CANDELA" MODEL CAND101-TM

NO	DATE	REVISION / SUBMITTAL
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4	08/23/06	100% REVISED SUBMISSION (PLAN CHANGE)
3	03/30/06	100% SUBMISSION
2	02/08/06	90% REVISED SUBMISSION (PLAN CHANGE)
1	12/08/05	50% REVIEW SUBMISSION

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PROJECT TITLE
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D.O.T. PIN# X550.45

DRAWING TITLE: SHORELINE PROTECTION PLAN - AREA(A)

DESIGNED BY: KBG | DRAWN BY: KBG | CHECKED BY: DJH, JM, JK

REVIEWED BY: LEAD PROJECT MANAGER - DIRECTOR: Raymundo Gomez, RLA, David Corlson, RLA | APPROVED: CHIEF OF DESIGN: Charles McKinney

APPROVED: CHIEF ENGINEER: JOHN J. NATOLI | CONTRACT NO. X288-152M

THE ABOVE SIGNATURES DO NOT IN ANY WAY RELEASE THE CONSULTANTS FROM THEIR DUTY OF PRODUCING AN ACCURATE AND COMPLETE SET OF CONTRACT DOCUMENTS

DATE: 11/10/06 | SCALE: 1"=20' | SHEET NO. 2 OF 17 SHEETS

NOTES:

1. THE EXISTING INFORMATION ON THIS PLAN IS FROM A SURVEY TITLED "TOPOGRAPHIC SURVEY" BY LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, DATED NOVEMBER 15, 2005.

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS, BOTH ABOVE AND BELOW THE SURFACE, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN THE INFORMATION SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER AND DPR IN WRITING PRIOR TO COMMENCING WORK.

3. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THIS WORK. THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH APPLICABLE AGENCIES, UTILITY COMPANIES, AND/OR SUB-CONTRACTORS.

4. IT IS MANDATORY, AS PER NYS INDUSTRIAL CODE RULE 53, FOR THE CONTRACTOR TO NOTIFY NEW YORK CITY/LONG ISLAND ONE-CALL CENTER, 36-35 BELL BOULEVARD, SUITE 202, BAYSIDE, NY 11361, TEL 800.272.4480, FAX 718.631.6723, EMAIL BSCHUETT@1-CALL.COM, IN ADDITION TO ALL UNDERGROUND FACILITY OPERATORS IN THE AREA WHO ARE NOT ONE-CALL MEMBERS, NOT LESS THAN TWO (2) FULL BUSINESS DAYS AND NOT MORE THAN TEN (10) FULL BUSINESS DAYS BEFORE COMMENCING EXCAVATION. THE ONE-CALL CENTER IS ALWAYS OPEN. THE ONE-CALL CENTER WILL THEN NOTIFY MEMBER FIRMS WITH OPERATIONS IN THE SITE AREA OF THE CONTRACTOR'S PENDING EXCAVATION OPERATIONS. THE CONTRACTOR WILL RECEIVE A NOTIFICATION TICKET FROM THE ONE-CALL CENTER WHICH SHOULD BE PRESENTED TO THE RESIDENT ENGINEER AS PROOF OF THE CALL. THERE IS NO CHARGE FOR THIS SERVICE. THIS PROCESS ENSURES THAT UTILITY SERVICE LINES ARE PROPERLY MARKED PRIOR TO EXCAVATION TO MINIMIZE FACILITY DAMAGE, ON THE JOB INJURIES, AND CONTRACTOR'S LIABILITY. MORE INFORMATION ABOUT THE ONE-CALL CENTER IS AVAILABLE ONLINE AT HTTP://WWW.NYCLI1CALLDSI.COM, WHICH INCLUDES A DESCRIPTION OF THE INFORMATION THAT CONTRACTOR WILL NEED WHEN MAKING THE CALL.

5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE AND/OR RESTORE ANY INTERRUPTION TO ANY UTILITY SERVICE THAT MAY BE CAUSED BY THE CONTRACTOR'S CONSTRUCTION OR EQUIPMENT, AT THE CONTRACTOR'S EXPENSE, WITH NO ADDITIONAL EXPENSE TO THE CITY OF NEW YORK.

6. ALL EXISTING SEWER, GAS, WATER, AND ELECTRIC UTILITY LINES, AS WELL AS STRUCTURES WITHIN THE CONTRACT AREA SHALL REMAIN, UNLESS REMOVAL OF SAME IS SPECIFICALLY NOTED. ALL STORM DRAINAGE PIPES TO BE ABANDONED OR REMOVED ARE NOTED ON THE PLANS. IF ABANDONED PIPES ARE ENCOUNTERED DURING EXCAVATION, THEN THE CONTRACTOR SHALL REMOVE PIPE IN AREA OF EXCAVATION AND PLUG AT EACH END OF EXCAVATION. CONTRACTOR SHOULD ENSURE THAT PIPE REALLY IS ABANDONED BEFORE ATTEMPTING THIS OPERATION.

7. THE CONTRACTOR IS TO USE CARE DURING CONSTRUCTION TO AVOID DISTURBING OR DAMAGING ADJACENT ABOVE-GRADE OR SUBGRADE STRUCTURES, FACILITIES, CURBS, PAVEMENTS, AND PERIMETER FENCING. ANY DAMAGE RESULTING FROM THIS WORK WILL BE RESTORED TO THE SATISFACTION OF DPR AT THE CONTRACTOR'S EXPENSE.

8. WHERE NEW CONSTRUCTION ABUTS EXISTING PAVEMENTS, CURBS, OR WALLS, THE EXISTING MATERIALS SHALL BE CLEANLY SAWCUT TO PROVIDE A CLEAN, NEAT MATCH AND A SMOOTH, FLUSH TRANSITION, AS DIRECTED BY THE RESIDENT ENGINEER. ALL SAWCUTTING SHALL BE DONE TO NEAT, STRAIGHT, AND ACCURATE LINES. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS (TIE ROD AND/OR SLIP JOINT) WHERE OLD AND NEW CURBS MEET.

9. THE CONTRACTOR SHALL REPLACE ANY EXISTING CURBS, FENCING, OR PAVEMENTS THAT WERE INTENDED TO REMAIN BUT ARE DAMAGED OR DISTURBED DURING CONSTRUCTION. IF REPLACEMENT IS NECESSARY, IT SHALL BE DONE AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF DPR AND THE RESIDENT ENGINEER.

10. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF EXISTING TREES. BULK MATERIAL, EQUIPMENT, OR VEHICLES SHALL NOT BE STOCKPILED OR PARKED WITHIN THE DRIPLINE OF ANY TREE.

11. SEE TREE PROTECTION AND VEHICLE ACCESS PLAN SHEETS 11 AND 12 FOR ADDITIONAL NOTES REGARDING PROTECTION, PRUNING AND DECOMPACTION OF EXISTING TREES.

12. WHEN NECESSARY, THE CONTRACTOR SHALL ALWAYS EXCAVATE BY HAND WITHIN THE DRIPLINE OF EXISTING TREES, OR AS DIRECTED BY THE RESIDENT ENGINEER.

13. IN AREAS DESIGNATED FOR EXCAVATION, ALL EXISTING PAVEMENTS, CURBS, AND CATCH BASINS SHALL BE REMOVED ACCORDING TO THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE RESIDENT ENGINEER.

14. ALL FOOTINGS AND OTHER BELOW-GRADE STRUCTURES TO BE REMOVED SHALL BE EXCAVATED TO A DEPTH OF 4'-0" BELOW FINISHED GRADE AND BACKFILLED WITH APPROVED SUITABLE FILL MATERIAL.

15. THE CONTRACTOR SHALL DISPOSE OF ALL ITEMS AND MATERIALS REMOVED AND NOT SALVAGED, INCLUDING ALL EXCAVATED MATERIAL, OFF-SITE AND IN A LEGAL MANNER.

16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES PRIOR TO COMMENCING WORK.

17. ALL MATERIALS TO BE SALVAGED FOR DPR MAINTENANCE & OPERATIONS (M&O) SHALL BE DELIVERED BY THE CONTRACTOR TO THE APPROPRIATE RECIPIENT. THE CONTRACTOR SHOULD CONTACT JOHN BACHMAN, CHIEF OF OPERATIONS 718-430-1812 PRIOR TO ANY DELIVERY. ALL MATERIALS NOT NEEDED BY M&O SHALL BE REMOVED AS INDICATED IN REMOVALS ITEM.

18. THE CONTRACTOR SHALL REMOVE, EXCAVATE, AND DISPOSE OF ALL MATERIALS ACCORDING TO SPECIFICATION.

19. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES, ETC. AS REQUIRED TO MAINTAIN AND PROTECT TRAFFIC FOR ON-STREET WORK.

20. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS ABOVE AND BELOW SURFACE PRIOR TO COMMENCING WORK. ANY DISCREPENCIES BETWEEN INFORMATION SHOWN ON THE DRAWING AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER AND DPR IN WRITING PRIOR TO COMMENCING WORK.

21. EXISTING ART PIECES TO BE REMOVED AND SALVAGED FOR BRONX RIVER ARTS CENTER (BRAC) USE. CONTRACTOR MUST CONTACT GAIL NATHAN OF BRAC AT (718)589-5819 TWO WEEKS IN ADVANCE FOR NECESSARY ARRANGMENTS TO SITE SALVAGED ART PIECES. ART PIECES DESIGNATED TO BE SALVAGED FOR BRAC USE WHICH ARE NOT NEEDED SHALL BE DISPOSED OF BY THE CONTRACTOR. TO BE PAID FOR UNDER REMOVALS.

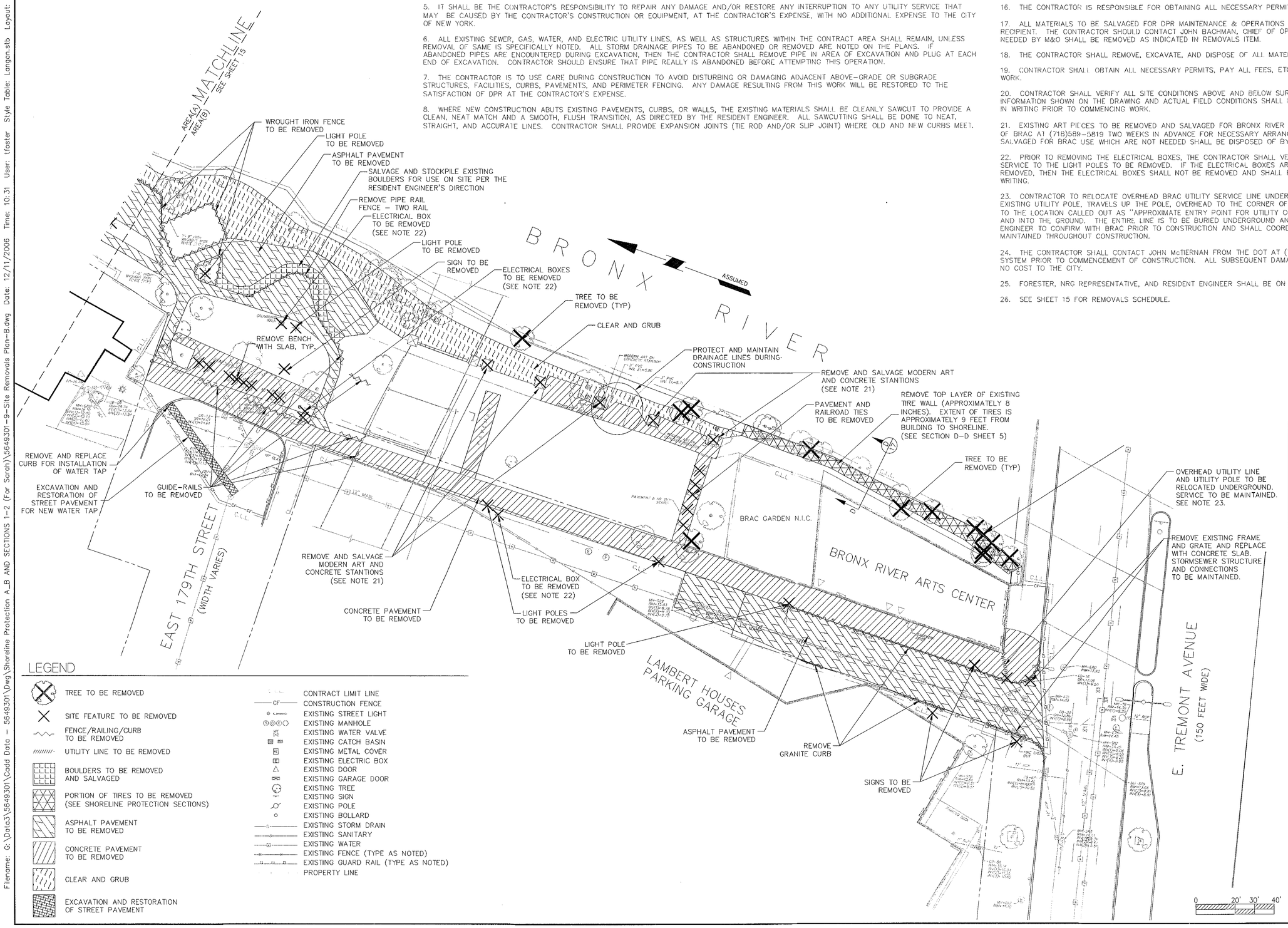
22. PRIOR TO REMOVING THE ELECTRICAL BOXES, THE CONTRACTOR SHALL VERIFY THAT ALL ELECTRICAL BOXES TO BE REMOVED ARE ONLY FOR SERVICE TO THE LIGHT POLES TO BE REMOVED. IF THE ELECTRICAL BOXES ARE FOUND TO SERVICE ITEMS OTHER THAN THE LIGHT POLES TO BE REMOVED, THEN THE ELECTRICAL BOXES SHALL NOT BE REMOVED AND SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER AND DPR IN WRITING.

23. CONTRACTOR TO RELOCATE OVERHEAD BRAC UTILITY SERVICE LINE UNDERGROUND. THE UTILITY LINE COMES OUT OF THE GROUND AT THE EXISTING UTILITY POLE, TRAVELS UP THE POLE, OVERHEAD TO THE CORNER OF THE BRAC BUILDING, ALONG THE OUTSIDE WALL OF THE BRAC BUILDING TO THE LOCATION CALLED OUT AS "APPROXIMATE ENTRY POINT FOR UTILITY CONDUIT," AND TRAVELS DOWN THE OUTSIDE WALL OF THE BRAC BUILDING AND INTO THE GROUND. THE ENTIRE LINE IS TO BE BURIED UNDERGROUND AND THE UTILITY POLE IS TO BE REMOVED. CONTRACTOR AND RESIDENT ENGINEER TO CONFIRM WITH BRAC PRIOR TO CONSTRUCTION AND SHALL COORDINATE WITH LOCAL UTILITY PROVIDER. SERVICES TO BRAC TO BE MAINTAINED THROUGHOUT CONSTRUCTION.

24. THE CONTRACTOR SHALL CONTACT JOHN McTIERNAN FROM THE DOT AT (718) 786-4738 TO ARRANGE FOR TESTING OF THE EXISTING LIGHTING SYSTEM PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL SUBSEQUENT DAMAGE TO THE DOT SYSTEM SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE CITY.

25. FORESTER, NRG REPRESENTATIVE, AND RESIDENT ENGINEER SHALL BE ON SITE TO MARK TREES TO BE REMOVED.

26. SEE SHEET 15 FOR REMOVALS SCHEDULE.



LEGEND

- TREE TO BE REMOVED
- SITE FEATURE TO BE REMOVED
- FENCE/RAILING/CURB TO BE REMOVED
- UTILITY LINE TO BE REMOVED
- BOULDERS TO BE REMOVED AND SALVAGED
- PORTION OF TIRES TO BE REMOVED (SEE SHORELINE PROTECTION SECTIONS)
- ASPHALT PAVEMENT TO BE REMOVED
- CONCRETE PAVEMENT TO BE REMOVED
- CLEAR AND GRUB
- EXCAVATION AND RESTORATION OF STREET PAVEMENT
- CONTRACT LIMIT LINE
- CF — CONSTRUCTION FENCE
- EXISTING STREET LIGHT
- EXISTING MANHOLE
- EXISTING WATER VALVE
- EXISTING CATCH BASIN
- EXISTING METAL COVER
- EXISTING ELECTRIC BOX
- EXISTING DOOR
- EXISTING GARAGE DOOR
- EXISTING TREE
- EXISTING SIGN
- EXISTING POLE
- EXISTING BOLLARD
- EXISTING STORM DRAIN
- EXISTING SANITARY
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- EXISTING FENCE (TYPE AS NOTED)
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NEW JERSEY PENNSYLVANIA NEW YORK CONNECTICUT FLORIDA

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Parks & Recreation
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Flushing Meadows Corona Park
Flushing, New York 11368

PROJECT TITLE:
THE RECONSTRUCTION OF BRONX RIVER (WEST FARMS) PARK, LOCATED AT EAST 179th STREET BETWEEN EAST 180th STREET AND EAST TREMONT AVENUE, BOROUGH OF BRONX (BLOCK 3141, LOTS 1, 14 & 17)

D.O.T. PIN# X550.45

DRAWING TITLE: SITE REMOVALS PLAN - AREA (B)

DESIGNED BY: KBG	DRAWN BY: KBG	CHECKED BY: DJH, JM,SK
REVIEWED-TEAM LEADER Raymundo Gomez, RLA	APPROVED-DIRECTOR David Carlson, RLA	APPROVED-CHIEF OF DESIGN Charles McKinney
APPROVED-CHIEF ENGINEER JOHN J. NATOLI	CONTRACT NO. X288-102M	

THE ABOVE SIGNATURES DO NOT IN ANY WAY RELEASE THE CONSULTANTS FROM THEIR DUTY OF PRODUCING AN ACCURATE AND COMPLETE SET OF CONTRACT DOCUMENTS.

DATE: 11/10/06 | SCALE: 1"=20' | SHEET NO. 16 OF 17 SHEETS

Filename: G:\Data3\5649301\Cadd Data - 5649301\Dwg\Shoreline Protection A_B AND SECTIONS 1-2 (For Sarah)\5649301-9-Site Removals Plan-B.dwg Date: 12/11/2006 Time: 10:31 User: tfoster Style Table: Langan.stb Layout: Layout1

LEGEND

- TREE TO BE REMOVED
- SITE FEATURE TO BE REMOVED
- FENCE/RAILING/CURB TO BE REMOVED
- UTILITY LINE TO BE REMOVED
- ASPHALT PAVEMENT TO BE REMOVED
- CLEAR AND GRUB
- CONTRACT LIMIT LINE
- CF — CONSTRUCTION FENCE
- EXISTING STREET LIGHT
- EXISTING MANHOLE
- EXISTING WATER VALVE
- EXISTING METAL COVER
- EXISTING TREE
- EXISTING SIGN
- EXISTING STORM DRAIN
- EXISTING WATER
- EXISTING FENCE (TYPE AS NOTED)
- PROPERTY LINE

REMOVALS SCHEDULE – AREA A AND AREA B

(QUANTITIES FOR REFERENCE ONLY)

SYMBOL	ITEM	QUANTITY TO BE REMOVED FROM SITE	QUANTITY TO BE SALVAGED FOR RE-USE	COMMENTS (PAID FOR UNDER)
	TREE	23 EA	---	"TREE REMOVAL OVER 6" TO 12" IN DIAMETER"
12" TREE STUMP	TREE STUMP	5 EA	---	"STUMP REMOVAL OVER 6" TO 12" IN DIAMETER"
	LIGHT POLE	9 EA	---	"ITEMIZED REMOVALS (N.T.E.)"
	BENCH	8 EA	---	"REMOVE BENCH WITH SLAB"
	MODERN ART AND CONCRETE STANTION	---	5 EA	"REMOVAL AND SALVAGE OF MODERN ART"
	SIGN	4 EA	---	"ITEMIZED REMOVALS (N.T.E.)"
	RAILROAD TIE	5 EA	---	"UNCLASSIFIED EXCAVATION"
	ELECTRICAL BOX	5 EA	---	"UNCLASSIFIED EXCAVATION"
	CATCH BASIN FRAME AND GRATE	2 EA	---	"REMOVALS (N.T.E.)"
	UTILITY POLE	1 EA	---	"REMOVALS (N.T.E.)"
	UTILITY LINE	13 LF	---	"REMOVALS (N.T.E.)"
	CHAIN LINK FENCE	253 SF	---	"REMOVE CHAIN LINK FENCE"
	WROUGHT IRON FENCE	1600 SF	---	"REMOVE STEEL FENCE"
	PIPE RAIL FENCE TWO RAIL	390 LF	---	"REMOVE PIPE RAIL FENCE – TWO RAIL"
	GUIDE-RAIL	84 LF	---	"ITEMIZED REMOVALS (N.T.E.)"
	GRANITE CURB	231 LF	---	"REMOVE CONCRETE CURB"
	BOULDERS	---	530 SF	"UNCLASSIFIED EXCAVATION"
	PORTION OF TIRES	1200 SF	---	"UNCLASSIFIED EXCAVATION" AND "ITEMIZED REMOVALS"
	ASPHALT PAVEMENT	11000 SF	---	"UNCLASSIFIED EXCAVATIONS"
	CONCRETE PAVEMENT	8700 SF	---	"UNCLASSIFIED EXCAVATIONS"
	CLEAR AND GRUB	9100 SF	---	"CLEAR AND GRUB"
	EXCAVATION AND RESTORATION OF STREET PAVEMENT	200 SF	---	"STREET RESTORATION OF STREET PAVEMENT" AND "UNCLASSIFIED EXCAVATIONS"

NOTES:

1. THE EXISTING INFORMATION ON THIS PLAN IS FROM A SURVEY TITLED "TOPOGRAPHIC SURVEY" BY LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, DATED NOVEMBER 15, 2005.

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS, BOTH ABOVE AND BELOW THE SURFACE, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN THE INFORMATION SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER AND DPR IN WRITING PRIOR TO COMMENCING WORK.

3. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THIS WORK. THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH APPLICABLE AGENCIES, UTILITY COMPANIES, AND/OR SUB-CONTRACTORS.

4. IT IS MANDATORY, AS PER NYS INDUSTRIAL CODE RULE 53, FOR THE CONTRACTOR TO NOTIFY NEW YORK CITY/LONG ISLAND ONE-CALL CENTER, 36-35 BELL BOULEVARD, SUITE 202, BAYSIDE, NY 11361, TEL 800.272.4480, FAX 718.631.6723, EMAIL BSCHUETT@1-CALL.COM, IN ADDITION TO ALL UNDERGROUND FACILITY OPERATORS IN THE AREA WHO ARE NOT ONE-CALL MEMBERS, NOT LESS THAN TWO (2) FULL BUSINESS DAYS AND NOT MORE THAN TEN (10) FULL BUSINESS DAYS BEFORE COMMENCING EXCAVATION. THE ONE-CALL CENTER IS ALWAYS OPEN. THE ONE-CALL CENTER WILL THEN NOTIFY MEMBER FIRMS WITH OPERATIONS IN THE SITE AREA OF THE CONTRACTOR'S PENDING EXCAVATION OPERATIONS. THE CONTRACTOR WILL RECEIVE A NOTIFICATION TICKET FROM THE ONE-CALL CENTER WHICH SHOULD BE PRESENTED TO THE RESIDENT ENGINEER AS PROOF OF THE CALL. THERE IS NO CHARGE FOR THIS SERVICE. THIS PROCESS ENSURES THAT UTILITY SERVICE LINES ARE PROPERLY MARKED PRIOR TO EXCAVATION TO MINIMIZE FACILITY DAMAGE, ON THE JOB INJURIES, AND CONTRACTOR'S LIABILITY. MORE INFORMATION ABOUT THE ONE-CALL CENTER IS AVAILABLE ONLINE AT HTTP://WWW.NYCLI1CALLDSI.COM, WHICH INCLUDES A DESCRIPTION OF THE INFORMATION THAT CONTRACTOR WILL NEED WHEN MAKING THE CALL.

5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE AND/OR RESTORE ANY INTERRUPTION TO ANY UTILITY SERVICE THAT MAY BE CAUSED BY THE CONTRACTOR'S CONSTRUCTION OR EQUIPMENT, AT THE CONTRACTOR'S EXPENSE, WITH NO ADDITIONAL EXPENSE TO THE CITY OF NEW YORK.

6. ALL EXISTING SEWER, GAS, WATER, AND ELECTRIC UTILITY LINES, AS WELL AS STRUCTURES WITHIN THE CONTRACT AREA SHALL REMAIN, UNLESS REMOVAL OF SAME IS SPECIFICALLY NOTED. ALL STORM DRAINAGE PIPES TO BE ABANDONED OR REMOVED ARE NOTED ON THE PLANS. IF ABANDONED PIPES ARE ENCOUNTERED DURING EXCAVATION, THEN THE CONTRACTOR SHALL REMOVE PIPE IN AREA OF EXCAVATION AND PLUG AT EACH END OF EXCAVATION. CONTRACTOR SHOULD ENSURE THAT PIPE REALLY IS ABANDONED BEFORE ATTEMPTING THIS OPERATION.

7. THE CONTRACTOR IS TO USE CARE DURING CONSTRUCTION TO AVOID DISTURBING OR DAMAGING ADJACENT ABOVE-GRADE OR SUBGRADE STRUCTURES, FACILITIES, CURBS, PAVEMENTS, AND PERIMETER FENCING. ANY DAMAGE RESULTING FROM THIS WORK WILL BE RESTORED TO THE SATISFACTION OF DPR AT THE CONTRACTOR'S EXPENSE.

8. WHERE NEW CONSTRUCTION ABUTS EXISTING PAVEMENTS, CURBS, OR WALLS, THE EXISTING MATERIALS SHALL BE CLEANLY SAWCUT TO PROVIDE A CLEAN, NEAT MATCH AND A SMOOTH, FLUSH TRANSITION, AS DIRECTED BY THE RESIDENT ENGINEER. ALL SAWCUTTING SHALL BE DONE TO NEAT, STRAIGHT, AND ACCURATE LINES. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS (TIE ROD AND/OR SLIP JOINT) WHERE OLD AND NEW CURBS MEET.

9. THE CONTRACTOR SHALL REPLACE ANY EXISTING CURBS, FENCING, OR PAVEMENTS THAT WERE INTENDED TO REMAIN BUT ARE DAMAGED OR DISTURBED DURING CONSTRUCTION. IF REPLACEMENT IS NECESSARY, IT SHALL BE DONE AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF DPR AND THE RESIDENT ENGINEER.

10. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF EXISTING TREES. BULK MATERIAL, EQUIPMENT, OR VEHICLES SHALL NOT BE STOCKPILED OR PARKED WITHIN THE DRIPLINE OF ANY TREE.

11. SEE TREE PROTECTION AND VEHICLE ACCESS PLAN SHEETS 11 AND 12 FOR ADDITIONAL NOTES REGARDING PROTECTION, PRUNING AND DECOMPACTION OF EXISTING TREES.

12. WHEN NECESSARY, THE CONTRACTOR SHALL ALWAYS EXCAVATE BY HAND WITHIN THE DRIPLINE OF EXISTING TREES, OR AS DIRECTED BY THE RESIDENT ENGINEER.

13. IN AREAS DESIGNATED FOR EXCAVATION, ALL EXISTING PAVEMENTS, CURBS, AND CATCH BASINS SHALL BE REMOVED ACCORDING TO THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE RESIDENT ENGINEER.

14. ALL FOOTINGS AND OTHER BELOW-GRADE STRUCTURES TO BE REMOVED SHALL BE EXCAVATED TO A DEPTH OF 4'-0" BELOW FINISHED GRADE AND BACKFILLED WITH APPROVED SUITABLE FILL MATERIAL.

15. THE CONTRACTOR SHALL DISPOSE OF ALL ITEMS AND MATERIALS REMOVED AND NOT SALVAGED, INCLUDING ALL EXCAVATED MATERIAL, OFF-SITE AND IN A LEGAL MANNER.

16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES PRIOR TO COMMENCING WORK.

17. ALL MATERIALS TO BE SALVAGED FOR DPR MAINTENANCE & OPERATIONS (M&O) SHALL BE DELIVERED BY THE CONTRACTOR TO THE APPROPRIATE RECIPIENT. THE CONTRACTOR SHOULD CONTACT JOHN BACHMAN, CHIEF OF OPERATIONS 718-430-1812 PRIOR TO ANY DELIVERY. ALL MATERIALS NOT NEEDED BY M&O SHALL BE REMOVED AS INDICATED IN REMOVALS ITEM.

18. THE CONTRACTOR SHALL REMOVE, EXCAVATE, AND DISPOSE OF ALL MATERIALS ACCORDING TO SPECIFICATION.

19. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES, ETC. AS REQUIRED TO MAINTAIN AND PROTECT TRAFFIC FOR ON-STREET WORK.

20. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS ABOVE AND BELOW SURFACE PRIOR TO COMMENCING WORK. ANY DISCREPENCIES BETWEEN INFORMATION SHOWN ON THE DRAWING AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER AND DPR IN WRITING PRIOR TO COMMENCING WORK.

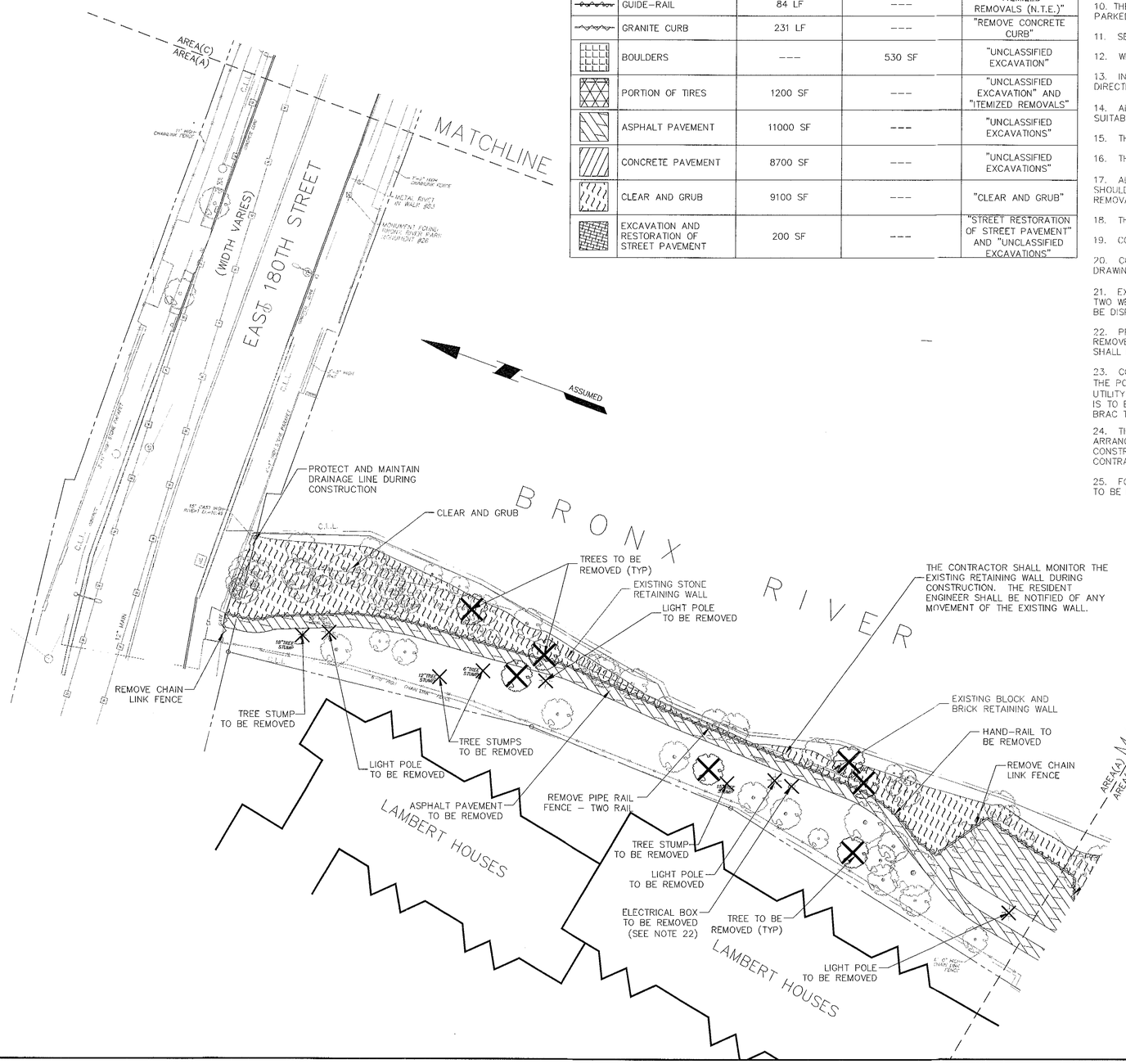
21. EXISTING ART PIECES TO BE REMOVED AND SALVAGED FOR BRONX RIVER ARTS CENTER (BRAC) USE. CONTRACTOR MUST CONTACT GAIL NATHAN OF BRAC AT (718)589-5819 TWO WEEKS IN ADVANCE FOR NECESSARY ARRANGMENTS TO SITE SALVAGED ART PIECES. ART PIECES DESIGNATED TO BE SALVAGED FOR BRAC USE WHICH ARE NOT NEEDED SHALL BE DISPOSED OF BY THE CONTRACTOR. TO BE PAID FOR UNDER REMOVALS.

22. PRIOR TO REMOVING THE ELECTRICAL BOXES, THE CONTRACTOR SHALL VERIFY THAT ALL ELECTRICAL BOXES TO BE REMOVED ARE ONLY FOR SERVICE TO THE LIGHT POLES TO BE REMOVED. IF THE ELECTRICAL BOXES ARE FOUND TO SERVICE ITEMS OTHER THAN THE LIGHT POLES TO BE REMOVED, THEN THE ELECTRICAL BOXES SHALL NOT BE REMOVED AND SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER AND DPR IN WRITING.

23. CONTRACTOR TO RELOCATE OVERHEAD BRAC UTILITY SERVICE LINE UNDERGROUND. THE UTILITY LINE COMES OUT OF THE GROUND AT THE EXISTING UTILITY POLE, TRAVELS UP THE POLE, OVERHEAD TO THE CORNER OF THE BRAC BUILDING, ALONG THE OUTSIDE WALL OF THE BRAC BUILDING TO THE LOCATION CALLED OUT AS "APPROXIMATE ENTRY POINT FOR UTILITY CONDUIT," AND TRAVELS DOWN THE OUTSIDE WALL OF THE BRAC BUILDING AND INTO THE GROUND. THE ENTIRE LINE IS TO BE BURIED UNDERGROUND AND THE UTILITY POLE IS TO BE REMOVED. CONTRACTOR AND RESIDENT ENGINEER TO CONFIRM WITH BRAC PRIOR TO CONSTRUCTION AND SHALL COORDINATE WITH LOCAL UTILITY PROVIDER. SERVICES TO BRAC TO BE MAINTAINED THROUGHOUT CONSTRUCTION.

24. THE CONTRACTOR SHALL CONTACT JOHN McTIERNAN FROM THE DOT AT (718) 786-4738 TO ARRANGE FOR TESTING OF THE EXISTING LIGHTING SYSTEM PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL SUBSEQUENT DAMAGE TO THE DOT SYSTEM SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE CITY.

25. FORESTER, NRG REPRESENTATIVE, AND RESIDENT ENGINEER SHALL BE ON SITE TO MARK TREES TO BE REMOVED.



0 20' 30' 40'

NO.	DATE	REVISION / SUBMITTAL
6	12/04/06	PERMITTING PLANS
5	11/10/06	FINAL SUBMISSION
4	08/23/06	100% REVISED SUBMISSION (PLAN CHANGE)
3	03/30/06	100% SUBMISSION
2	02/08/06	50% REVISED SUBMISSION (PLAN CHANGE)
1	12/08/05	50% REVIEW SUBMISSION

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D.O.T. PIN# X550.45

DRAWING TITLE: **SITE REMOVALS PLAN - AREA(A)**

DESIGNED BY: KBG	DRAWN BY: KBG	CHECKED BY: DJH, JM,SK
REVIEWED-TEAM LEADER Raymundo Gomez, RLA	APPROVED-DIRECTOR David Carlson, RLA	APPROVED-CHIEF OF DESIGN Charles McKinney
APPROVED-CHIEF ENGINEER JOHN J. NATOLI	CONTRACT NO. X288-102M	

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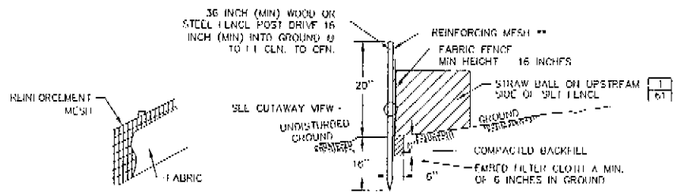
DATE: 11/10/06 | SCALE: 1"=20' | SHEET NO. 15 OF 17 SHEETS

Filename: G:\Data3\5649301\Cadd Data - 5649301\Org\Shoreline Protection A_B AND SECTIONS 1-2 (For Sarah)\5649301-B-Site Removals Plan-A.dwg Date: 12/11/2006 Time: 10:32 User: Hunter Style Table: Langan.stb Layout: Layout1



CUTAWAY VIEW

** MESH. WOVEN WIRE FENCE (MIN 14 1/2 GAUGE W/ MAX. 6" MESH SPACING

NOTES:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "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, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING

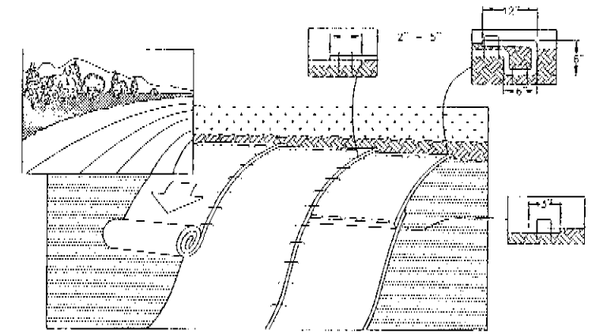
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLINKA T140N, OR APPROVED EQUAL.

4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

6. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE SILT FENCING

1 SILT FENCE
NOT TO SCALE



NOTES:

1. FINE GRADE SOIL AND PLACE 2" OF STRAW MULCH ON GROUND BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S). INCLUDE ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

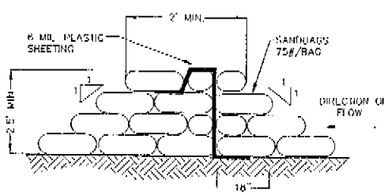
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF 6" STAPLES APPROXIMATELY 1" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF 6" STAPLES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.

3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING 6" STAPLES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM a 8" STAPLES SHOULD BE PLACE THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

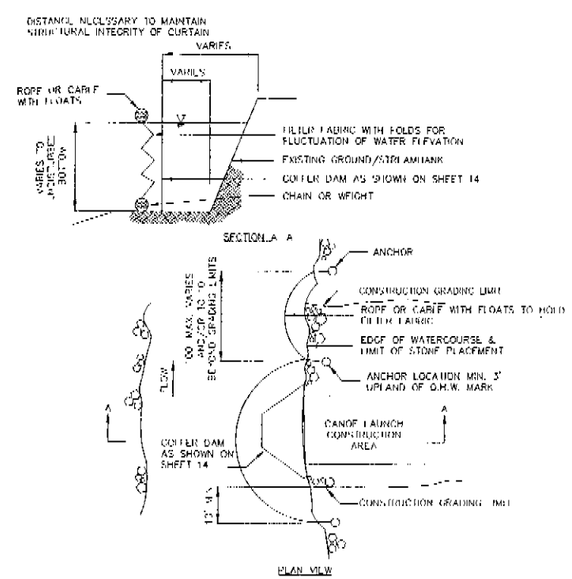
4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" OVERLAP DEPENDING ON RECP'S WIDTH.
NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

2 INSTALLATION FOR EROSION CONTROL BLANKET
NOT TO SCALE

NOTE: 6 MIL PLASTIC SHEETING SHALL BE SECURED TO THE TOP AND BOTTOM OF THE SANDBAG EMBANKMENT AND FOLD IN ALONG THE SIDE BANK OF THE STREAM WITH THE SEAMS TO FORM A WATERTIGHT SEAL



3 SANDBAG COFFERDAM
NOT TO SCALE



4 FLOATING BOOM WITH SILT CURTAIN
NOT TO SCALE

NO.	DATE	REVISION / SUBMITTAL
8	12/04/06	PERMITTING PLANS
5	11/10/06	FINAL SUBMISSION
4	08/23/06	100% REVISED SUBMISSION (PLAN CHANGE)
3	03/30/06	100% SUBMISSION
2	02/08/06	90% REVISED SUBMISSION (PLAN CHANGE)
1	12/08/05	90% REVIEW SUBMISSION

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D.O.T. PIN# X550.45

DRAWING TITLE: DETAILS - 2

DESIGNED BY: KBG	DRAWN BY: KBG	CHECKED BY: DJH, JM, SK
REVIEWED - TEAM LEADER Raymundo Gomez, RLA	APPROVED DIRECTOR David Carlson, RLA	APPROVED CHIEF OF DESIGN Charles McKinney
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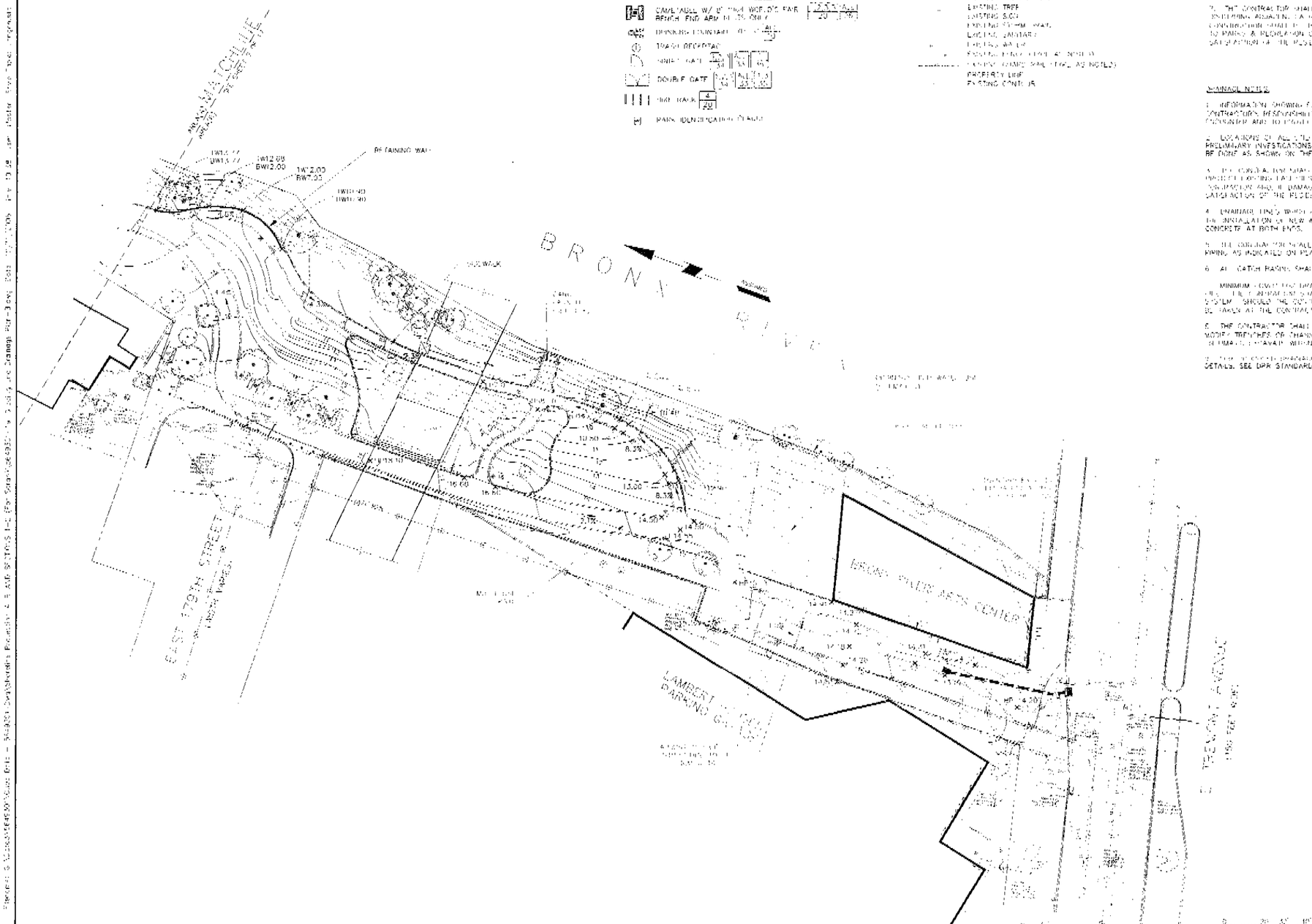
DATE 11/10/06 | SCALE N.I.S. | SHEET NO. 17 OF 17 SHEETS



LEGEND

- PROPOSED CONTOUR
- SLOPE OF PAVEMENT
- PROPOSED SPOT ELEVATION
- PROPOSED CATCH BASIN
- PROPOSED STORM LINE
- CONTRACT LIMIT LINE
- CONSTRUCTION FENCE
- PROPOSED DECORATIVE STEEL FENCE
- PROPOSED STEEL BAR FENCE 7' HEIGHT
- PROPOSED PIPE RAIL FENCE
- CAVETTI WALL W/ 8" TOP WORKING PAIR BENCH END ARM BLOCK ONLY
- DRINKING FOUNTAIN
- TRAFFIC DEFLECTOR
- SINGLE GATE
- DOUBLE GATE
- BIKE RACK
- PARK IDENTIFICATION PLAQUE
- REMOVABLE STEEL BOLLARD
- FIXED STEEL BOLLARD
- GRANITE DENSIFICATION BLOCK
- PROPOSED TREE
- EXISTING TREE TO BE REMOVED
- EXISTING SIGNS
- EXISTING MANHOLE
- EXISTING WATER VALVE
- EXISTING ELECTRICAL BOX
- EXISTING METAL COVER
- EXISTING ELECTRICAL BOX
- EXISTING DOOR
- EXISTING TREE
- EXISTING SIGN
- EXISTING STEEL WALL
- EXISTING AIR LINE
- EXISTING FENCE TO BE REMOVED
- EXISTING CHAIN LINK FENCE AS NOTED
- PROPERTY LINE
- EXISTING CONTOUR

GRADING NOTES

1. EXISTING SURVEY AND TOPOGRAPHICAL DATA TAKEN FROM SURVEY BY LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, DATED NOVEMBER 15, 2005. ALL ELEVATIONS ARE BASED UPON THE NAVD 88 DATUM.

2. THE CONTRACTOR SHALL VERIFY ALL EXISTING GEOGRAPHIC INFORMATION. ANY DISCREPANCIES BETWEEN THE SURVEY AND EXISTING CONDITIONS, DRAWINGS AND SPECIFICATIONS, OR DIMENSIONS OR GRADES SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER AND DPR IN WRITING PRIOR TO COMMENCING WORK.

3. ALL PAVEMENTS SHALL BE CONTOURED TO MATCH EXISTING GRADE WITH NO PATCHING, IRREGULARITIES, OR DEPRESSIONS.

4. ALL NEW PAVEMENTS SHALL MEET EXISTING PAVEMENTS AND GRADES FLUSH AND EVENLY.

5. ALL CURBS SHALL BE INSTALLED TO PROVIDE EVEN GRADES AS INDICATED WITH NO PATCHING OR IRREGULARITIES.

6. THE CONTRACTOR SHALL USE EXTREME CARE TO PROTECT EXISTING TREES AND THEIR ROOTS. EXCEPT AS NOTED ELEVATIONS ADJOINING EXISTING TREES SHALL REMAIN THE SAME. MODIFY TRENCHES OR REARRANGE TO AVOID REMAINING TREES AND THEIR ROOTS. HAND EXCAVATE ONLY WITHIN THE DRIP LINES OF TREES OR AS DIRECTED BY THE RESIDENT ENGINEER.

7. THE CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION OPERATIONS, TO AVOID DISTURBING ADJACENT STRUCTURES AND OR SITE GRADE CHANGES. ALL DAMAGE RESULTING FROM CONSTRUCTION SHALL BE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REPAIRED AT NO EXPENSE TO PARKS & RECREATION OR THE CITY OF NEW YORK. ALL REPAIR WORK SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND OF AGENCY HAVING JURISDICTION.

DRAINAGE NOTES

1. INFORMATION SHOWING EXISTING UTILITIES MAY BE INCOMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF ANY EXISTING UTILITIES THAT MAY EXIST OR ARE TO EXIST.

2. LOCATIONS OF ALL UTILITIES ARE SHOWN DIAGRAMMATICALLY. THE CONTRACTOR SHALL MAKE PRELIMINARY INVESTIGATIONS, INCLUDING ANY NECESSARY EXCAVATION, TO DETERMINE IF THE WORK CAN BE DONE AS SHOWN ON THE PLANS AND AS DIRECTED BY THE RESIDENT ENGINEER.

3. THE CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION / GRADING OPERATIONS TO PROTECT EXISTING UTILITIES OR PIPES. DAMAGED UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND IF DAMAGED, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER.

4. DRAINAGE LINES WHICH HAVE BEEN ABANDONED ARE TO BE REMOVED AS NECESSARY TO FACILITATE THE INSTALLATION OF NEW WORK. ALL ABANDONED PIPES LARGER THAN 4" SHALL BE PLUGGED WITH CONCRETE AT BOTH ENDS.

5. THE CONTRACTOR SHALL REMOVE ALL DEBRIS AND SILT FROM EXISTING DRAINAGE STRUCTURES AND PIPING AS INDICATED ON PLAN FOR POSITIVE FLOW TO STREET SEWER SYSTEM.

6. ALL CATCH BASINS SHALL BE INSTALLED AT THE LOW POINT WITHIN SURROUNDING AREAS.

7. MINIMUM COVER FOR DRAINAGE PIPE SHALL BE ONE FOOT (1') FROM FINISHED GRADE TO THE TOP OF PIPE. THE DEPARTMENT'S GOAL IS TO HAVE POSITIVE DRAINAGE ACHIEVED THROUGHOUT THE ENTIRE SYSTEM. SHOULD THE CONTRACTOR FAIL TO ACHIEVE POSITIVE DRAINAGE, CORRECTIVE MEASURES SHALL BE TAKEN AT THE CONTRACTOR'S EXPENSE AND AS DIRECTED BY THE RESIDENT ENGINEER.

8. THE CONTRACTOR SHALL USE EXTREME CARE TO PROTECT EXISTING TREES AND THEIR ROOTS. MODIFY TRENCHES OR CHANGE S TO AVOID EXISTING TREES AND THEIR ROOTS. DIG BY HAND AND/OR SEMI-MANUAL EXCAVATOR WITHIN THE DRIP LINES OF EXISTING TREES.

9. [illegible] SEE DPR STANDARD DETAIL #6, 8 & 10.

No.	DATE	REVISION / SUBMITTAL
5	[illegible]	PERMITTING PLAN
4	[illegible]	FINAL SUBMISSION
3	[illegible]	100% REVISED SUBMISSION (PLAN CHANGE)
2	[illegible]	100% SUBMISSION
1	[illegible]	70% REVISED SUBMISSION (PLAN CHANGE)
0	[illegible]	50% REVIEW SUBMISSION

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City of New York
Parks & Recreation
Arsenal Center
Flushing Meadows Corona Park
Flushing, New York 11368

PROJECT TITLE:
THE RECONSTRUCTION OF BRONX RIVER (WEST FARMS) PARK, LOCATED AT EAST 179th STREET BETWEEN EAST 180th STREET AND EAST TREMONT AVENUE, BOROUGH OF BRONX (BLOCK 3141, LOTS 1, 14 & 17)

PROJECT TITLE # X00046

DRAWING TITLE: GRADING AND DRAINAGE PLAN - AREA(B)

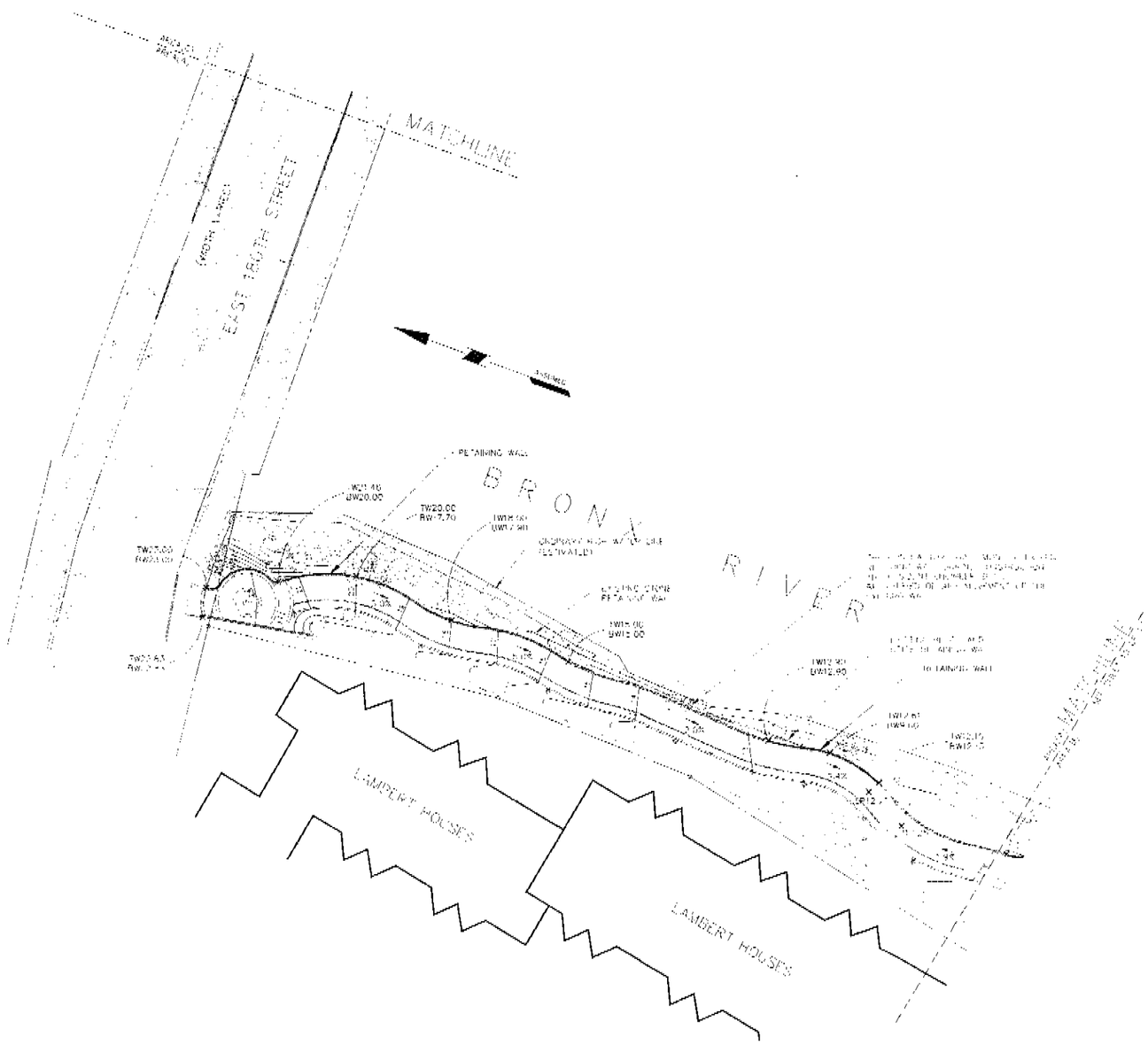
DESIGNED BY: [illegible]	DRAWN BY: [illegible]	CHECKED BY: TuH, JM, SA
REVIEWED TEAM LEADER: Raymond G. Gurney, PLA	APPROVED DIRECTOR: David Gulbert, PLA	APPROVED CHIEF OF DESIGN: Charles McKinney
APPROVED CHIEF ENGINEER:		CONTRACT NO. X388 102M

THE ABOVE [illegible] WAS PREPARED UNDER THE DIRECTION OF THE CONTRACTOR FROM THE DATA SUPPLIED BY THE CITY OF NEW YORK. [illegible] OF CONTRACT DOCUMENTS

DATE: [illegible] SCALE: 1"=20' | SHEET NO. [illegible]

LEGEND

100	PROPOSED CONTOUR
	EDGE OF PAVEMENT
X 200	PROPOSED SPOT ELEVATION
	CONTROL LINE
	CONSTRUCTION FENCE
	PROPOSED DECORATIVE STEEL FENCE
	TRASH RECEPTACLE
	BIKE RACK
	REMOVABLE BOLLARD
	GRANITE BOTTOM INFILL PANEL
	PROPOSED LIGHT POLES HIGHLY ORNAMENTAL LIGHTING "CAMELOT" MODEL CANDELA
	EXISTING STREET LIGHT
	EXISTING MANHOLE
	EXISTING WATER VALVE
	EXISTING METER COVER
	EXISTING TREE
	EXISTING SIGN
	EXISTING STORM DRAIN
	EXISTING WATER
	EXISTING FENCE (TYPE AS NOTED)
	PROPERTY LINE
	EXISTING CONTOUR



GRADING NOTES

1. EXISTING SURVEY AND TOPOGRAPHICAL DATA TAKEN FROM SURVEY BY LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, DATED NOVEMBER 15, 2006. ALL ELEVATIONS ARE BASED ON THE BRONX BOROUGH DATUM.

2. THE CONTRACTOR SHALL VERIFY ALL EXISTING TOPOGRAPHIC INFORMATION. ANY DISCREPANCIES BETWEEN THE SURVEY AND EXISTING CONDITIONS, BETWEEN PLANS AND SPECIFICATIONS, OR BETWEEN ARCHITECT PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER AND CORRECTED IN WRITING PRIOR TO COMMENCING WORK.

3. ALL EASEMENTS SHALL BE INSTALLED TO SMOOTH EVEN GRADE WITH NO PATCHING, IRREGULARITIES OR DEPRESSIONS.

4. ALL NEW PAVEMENTS SHALL MEET EXISTING PAVEMENTS AND GRADES SMOOTH AND EVENLY.

5. ALL CURBS SHALL BE INSTALLED TO SMOOTH EVEN GRADES AS INDICATED WITH NO PATCHING OR BIND-OVERLAPPING.

6. THE CONTRACTOR SHALL USE EXTREME CARE TO PROTECT EXISTING TREES AND THEIR ROOTS. FINISH ELEVATIONS AROUND EXISTING TREES SHALL REMAIN THE SAME. MODIFY TRENCHES OR CHANNELS TO AVOID REMAINING TREES AND THEIR ROOTS. HAND EXCAVATE FOR WORK IN THE LINES OF TREES OR AS DIRECTED BY THE RESIDENT ENGINEER.

7. THE CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EARTHWORK OPERATIONS, TO AVOID SPILLAGE, AND ALL FACILITIES AND OR SUB GRADE STRUCTURES. ALL DAMAGE RESULTING FROM CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REPAIRED AT NO EXPENSE TO PARKS & RECREATION OR THE CITY OF NEW YORK. ALL REPAIR WORK SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND/OR AGENCY HAVING JURISDICTION.

DRAINAGE NOTES

1. INFORMATION SHOWING EXISTING UTILITY LINES MAY BE INCOMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF ANY UTILITY LINES THEY MAY EXCAVATE AND TO PROTECT SAID LINES.

2. LOCATIONS OF ALL UTILITIES ARE SHOWN DIAGRAMMATICALLY. THE CONTRACTOR SHALL MAKE EXPLANATORY EXCAVATIONS, SOUNDINGS AND NECESSARY RE-EXCAVATION, TO DETERMINE IF THE WORK CAN BE DONE AS SHOWN ON THE PLANS AND AS DIRECTED BY THE RESIDENT ENGINEER.

3. THE CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION / GRADING OPERATIONS TO PROTECT EXISTING FACILITIES TO REMAIN. ANY FACILITIES SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND, IF DAMAGED, SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER.

4. DRAINAGE LINES WHICH HAVE BEEN ABANDONED ARE TO BE REMOVED AS NECESSARY TO FACILITATE THE INSTALLATION OF NEW WORK. ALL ABANDONED PIPES LARGER THAN 6" SHALL BE PLUGGED WITH CONCRETE AT BOTH ENDS.

5. THE CONTRACTOR SHALL REMOVE ALL DEBRIS AND SILT FROM EXISTING DRAINAGE STRUCTURES AND DRAINS AS INDICATED ON PLAN FOR POSITIVE FLOW TO STREET SEWER SYSTEM.

6. ALL CATCH BASINS SHALL BE LOCATED AT THE LOW POINT WITHIN NOTED AREA.

7. MINIMUM CONCRETE DRAINAGE PIPE SLOPE OF ONE FOOT (1') FROM PROFILE GRADE TO THE TOP OF PIPE. THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IS ACHIEVED THROUGHOUT THE ENTIRE SYSTEM. SHOULD THE CONTRACTOR FAIL TO ACHIEVE POSITIVE DRAINAGE, CORRECTIVE MEASURES SHALL BE TAKEN AT THE CONTRACTOR'S EXPENSE AND AS DIRECTED BY THE RESIDENT ENGINEER.

8. THE CONTRACTOR SHALL USE EXTREME CARE TO PROTECT EXISTING TREES AND THEIR ROOTS. MODIFY TRENCHES OR CHANNELS TO AVOID EXISTING TREES AND THEIR ROOTS. HAND SPADE AND/OR PNEUMATIC EXCAVATE WITHIN THE DRIPLINE OF EXISTING TREES.

9. FOR WOODEN PLATFORM [illegible] SEE DEP STANDARD DETAIL #2 & 3. FOR WATER DETAILS, SEE DEP STANDARD DETAIL #6, 8 & 10.

NO	DATE	REVISION / SUBMITTAL
5	[illegible]	[illegible]
4	[illegible]	[illegible]
3	[illegible]	[illegible]
2	[illegible]	[illegible]
1	12/08/06	[illegible]

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Olmsted Center
Flushing Meadows Corona Park
Flushing, New York 11368

PROJECT TITLE
THE RECONSTRUCTION OF BRONX RIVER (WEST FARMS) PARK, LOCATED AT EAST 179th STREET BETWEEN EAST 180th STREET AND EAST TREMONT AVENUE, BOROUGH OF BRONX (BLOCK 3141, LOTS 1, 14 & 17).

PLOT FILE: [illegible]

DRAWING TITLE: GRADING AND DRAINAGE PLAN - AREA(A)

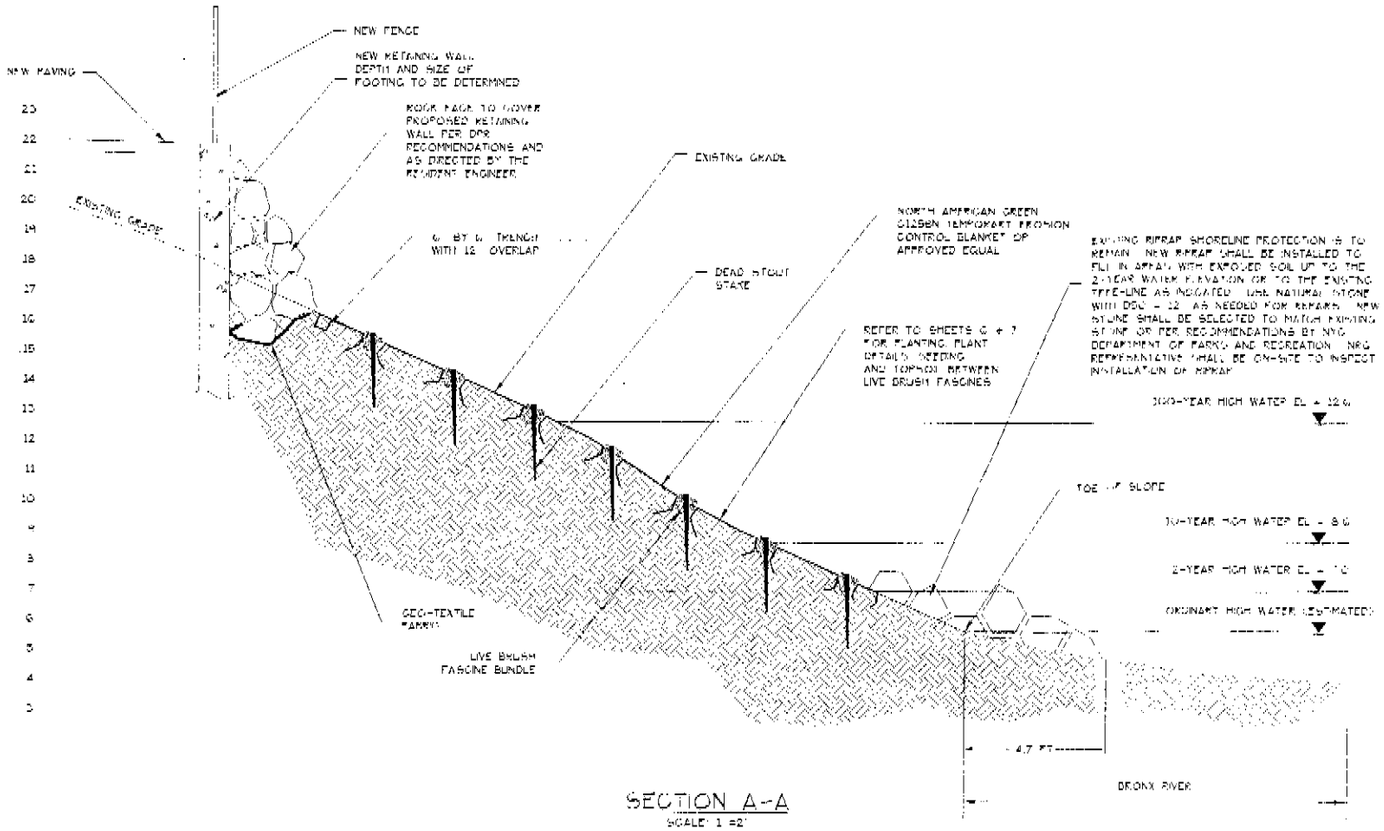
DESIGNED BY: [illegible] | DRAWN BY: [illegible] | CHECKED BY: [illegible]

REVIEWED BY: Raymondo Gomez, RLA | APPROVED BY: David Gordon, R.A. | APPROVED BY: Charles McKinney

APPROVED BY: CITY ENGINEER | CONTRACT NO. X378A-107M

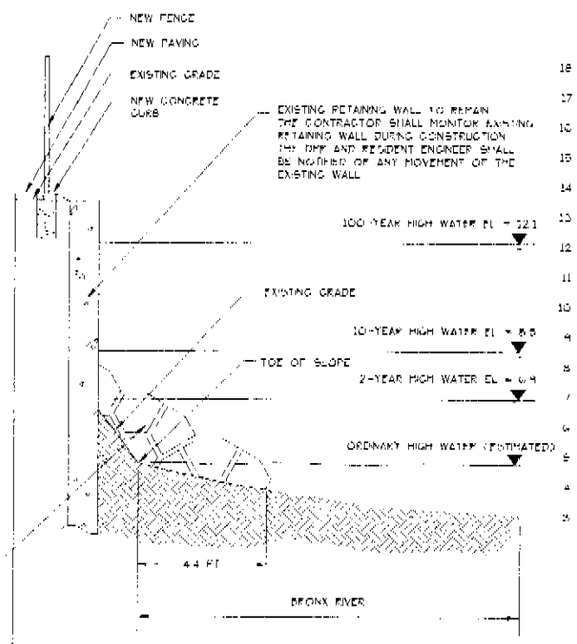
DRAWING NOTICE: THE ABOVE CONCEPTS, DESIGNS AND PLANS WERE PREPARED BY CONSULTANTS FROM THEIR OWN INFORMATION AND ARE PROVIDED AS AN INSTRUMENT OF SERVICE TO THE CONTRACT DOCUMENTS.

DATE: 11/07/06 | SCALE: 1" = 20' | SHEET NO. 8 OF 17 SHEETS



SECTION A-A

SCALE: 1"=2'



EXISTING RIPRAP SHORELINE PROTECTION IS TO REMAIN. NEW RIPRAP SHALL BE INSTALLED TO FILL IN AREAS WITH EXPOSED SOIL UP TO THE 2-YEAR WATER ELEVATION OR TO THE EXISTING TREE-LINE AS INDICATED. USE NATURAL STONE WITH D50 = 12" AS NEEDED FOR REPAIRS. NEW STONE SHALL BE SELECTED TO MATCH EXISTING STONE OR PER RECOMMENDATIONS BY NYC DEPARTMENT OF PARKS AND RECREATION. NRG REPRESENTATIVE SHALL BE ON-SITE TO INSPECT INSTALLATION OF RIPRAP

SECTION B-B

SCALE: 1"=2'

LIVE BRUSH FASCINE NOTES

CONSTRUCTION GUIDELINES:
LIVE MATERIALS – CUTTINGS MUST BE FROM SPECIES THAT ROOT EASILY AND HAVE LONG, STRAIGHT BRANCHES

NATURAL RESOURCES GROUP REPRESENTATIVE SHALL BE ON-SITE TO INSPECT INSTALLATION OF LIVE FASCINES

LIVE MATERIAL PREPARATION:

1. CUTTINGS TIED TOGETHER TO FORM LIVE BRUSH FASCINE BUNDLES ARE TO BE 8 FEET IN LENGTH OR LONGER DEPENDING ON SITE CONDITIONS AND LIMITATIONS IN HANDLING. CUTTINGS ARE TO BE 1/4 TO 3/4" IN DIAMETER.

2. THE COMPLETED BUNDLES SHALL BE 8 INCHES IN DIAMETER WITH ALL OF THE GROWING TIPS ORIENTED IN THE SAME DIRECTION. STAGGER THE CUTTINGS IN THE BUNDLES SO THAT TIPS ARE EVENLY DISTRIBUTED THROUGHOUT THE LENGTH OF THE UNIFORMLY SIZED LIVE FASCINE

3. LIVE MATERIALS TO BE INSTALLED SAME DAY THEY ARE PREPARED

INERT MATERIAL PREPARATION:

1. STRING USED FOR BUNDLING SHALL BE UNTREATED TWINE

2. DEAD STOUT STAKES USED TO SECURE THE LIVE BRUSH FASCINES SHALL BE 3-FOOT UNTREATED 2" BY 2" LUMBER. EACH LENGTH SHALL BE CUT DIAGONALLY ACROSS THE 4 INCH FACE TO MAKE TWO STAKES FROM EACH 3-FOOT LENGTH. ONLY NEW, SOUND LUMBER SHALL BE USED AND ANY DEAD STOUT STAKES THAT SHATTER UPON INSTALLATION SHALL BE DISCARDED AND REPLACED

INSTALLATION:

1. PREPARE THE LIVE BRUSH FASCINE BUNDLES AND DEAD STAKES IMMEDIATELY BEFORE INSTALLATION

2. BEGINNING AT THE BASE OF THE SLOPE (TOP OF RIPRAP), DIG A TRENCH ON THE CONTOUR APPROXIMATELY 6 TO 8 INCHES WIDE AND DEEP

3. EXCAVATE TRENCHES ON THE SLOPE AT 5 FOOT INTERVALS FOR 3:1 SLOPES OR FLATTER. EXCAVATE TRENCHES ON THE SLOPE AT 3 FOOT INTERVALS FOR SLOPES STEEPER THAN 3:1

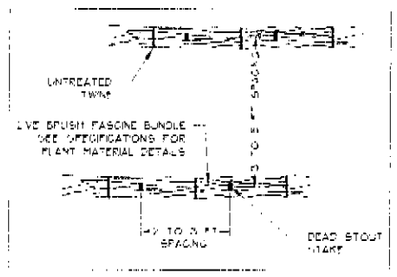
4. PLACE LONG STRAW AND ANNUAL GRASSES BETWEEN ROWS

5. INSTALL AND SECURE THE EROSION CONTROL BLANKET AS SPECIFIED ON THE DETAIL SHEET

6. PLACE THE LIVE BRUSH FASCINE INTO THE TRENCH LEAVING APPROXIMATELY 1/4 OF THE LIVE FASCINE ABOVE GRADE

7. DRIVE THE DEAD STOUT STAKES DIRECTLY THROUGH LIVE BRUSH FASCINE USING A 2 TO 3 FOOT SPACING. EXTRA STAKES SHOULD BE USED AT CONNECTIONS OR BUNDLE OVERLAPS. LEAVE THE TOP OF THE DEAD STOUT STAKES FLUSH WITH THE INSTALLED BUNDLE

8. PLACE MOIST SOIL ALONG SIDES OF THE BUNDLE. THE TOP OF THE LIVE BRUSH FASCINE SHOULD BE VISIBLE WHEN THE INSTALLATION IS COMPLETED



PLAN VIEW
SPACING FOR LIVE FASCINES

GENERAL NOTES:

1. THE EXISTING INFORMATION ON THIS PLAN IS FROM A SURVEY TITLED "TOPOGRAPHIC SURVEY" BY LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, DATED NOVEMBER 13, 2008

2. ELEVATIONS SHOWN ARE REFERENCED TO THE BRONX BOROUGH DATUM.

3. EXISTING CONDITIONS OF THE BRONX RIVER SHOWN BELOW THE TOE OF SLOPE ARE ASSUMED AND ARE NOT TO SCALE

4. HIGH WATER ELEVATIONS FOR THE 10-YEAR AND 100-YEAR STORM EVENT WERE OBTAINED FROM THE FLOOD INSURANCE STUDY FOR THE CITY OF NEW YORK BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY DATED MAY 16, 1983. HIGH WATER ELEVATIONS FOR THE 2-YEAR STORM EVENT WERE ESTIMATED BASED UPON AVAILABLE INFORMATION MODELED WITH FLOWMASTER SOFTWARE

NO.	DATE	REVISION / SUBMITTAL
7	12/15/08	PERMIT NOTE ADDED
6	11/26/08	FINAL SUBMISSION
5	08/22/08	100% REVISED SUBMISSION (PLANT CHANGES)
4	03/31/08	100% SUBMISSION
3	05/09/07	50% REVISED SUBMISSION (PLAN CHANGES)
2	12/08/05	50% REVIEW SUBMISSION
1	04/07	DIVISION 7 SUBMITTAL

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City of New York
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PROJECT TITLE:
THE RECONSTRUCTION OF BRONX RIVER (WEST FARMS) PARK, LOCATED AT EAST 179th STREET BETWEEN EAST 180th STREET AND EAST TREMONT AVENUE, BOROUGH OF BRONX (BLOCK 3141, LOTS 1, 14 & 17)

D.O.I. File# X050.45

DRAWING TITLE: SHORELINE PROTECTION SECTIONS - 1

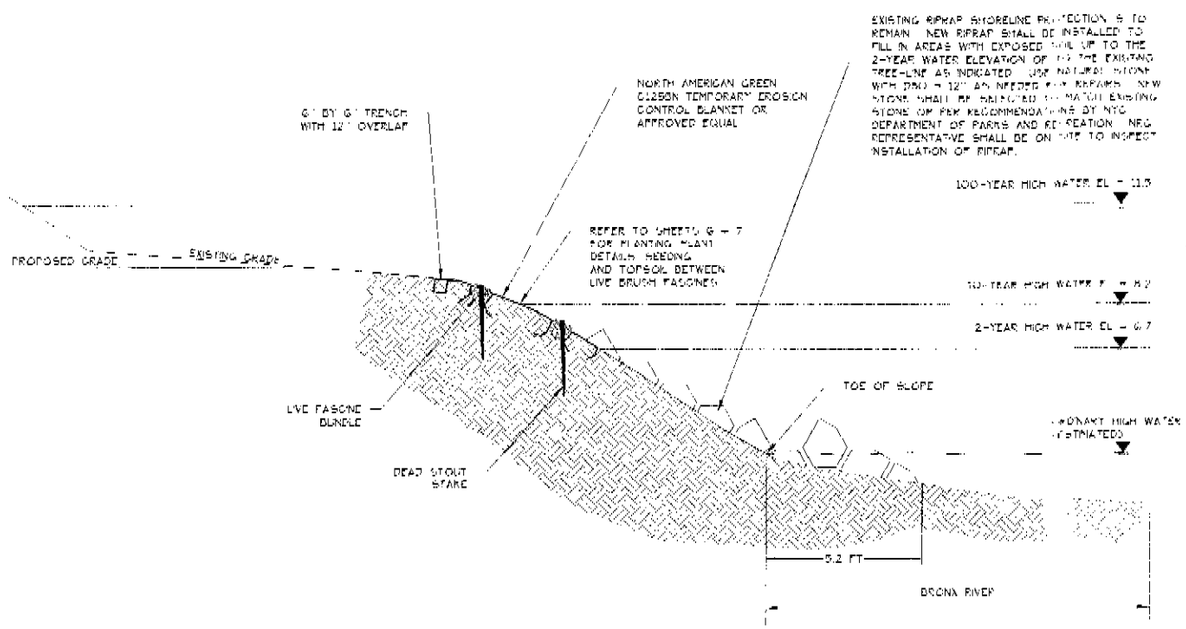
DESIGNED BY: KCG | DRAWN BY: KRC | CHECKED BY: DJL, JM

DRAWING TITLE: PLANTING | APPROVED BY: | APPROVED BY: DIRECTOR OF PARKS
Raymond Corey, RA | Hayle Gelber, RA | Charles Vasiliev

APPROVED BY: PROJECT ENGINEER: Carl J. Napoli | CONTRACT NO. X288.150A

THE ABOVE SIGNATURES DO NOT IN ANY WAY RELEASE THE CONSULTANTS FROM THEIR DUTY OF PRODUCING AN ACCURATE AND COMPLETE SET OF CONTRACT DOCUMENTS

DATE: 11/13/08 | SCALE: 1"=2' | SHEET NO. 4 OF 17 SHEETS



SECTION C-C

SCALE: 1 = 2'

LIVE BRUSH FASCINE NOTES

CONSTRUCTION GUIDELINES
LIVE MATERIALS - CUTTINGS MUST BE FROM SPECIES THAT ROOT EASILY AND HAVE LONG STRAIGHT BRANCHES.

NATURAL RESOURCES GROUP REPRESENTATIVE SHALL BE ON-SITE TO INSPECT INSTALLATION OF LIVE FASCINES.

LIVE MATERIAL PREPARATION

1. CUTTINGS TIED TOGETHER TO FORM LIVE BRUSH FASCINE BUNDLES ARE TO BE 8 FEET IN LENGTH OR LONGER DEPENDING ON SITE CONDITIONS AND LIMITATIONS IN HANDLING. CUTTINGS ARE TO BE 1/4" TO 3/4" IN DIAMETER.

2. THE COMPLETED BUNDLES SHALL BE 8 INCHES IN DIAMETER WITH ALL OF THE GROWING TIPS ORIENTED IN THE SAME DIRECTION. STAGGER THE CUTTINGS IN THE BUNDLES SO THAT TOPS ARE EVENLY DISTRIBUTED THROUGHOUT THE LENGTH OF THE UNIFORMLY SIZED LIVE FASCINE.

3. LIVE MATERIALS TO BE INSTALLED SAME DAY THEY ARE PREPARED.

INERT MATERIAL PREPARATION:

1. STRING USED FOR BUNDLING SHALL BE UNTREATED TWINE.

2. DEAD STOUT STAKES USED TO SECURE THE LIVE BRUSH FASCINES SHALL BE 3-FOOT UNTREATED 2" BY 2" LUMBER. EACH LENGTH SHALL BE CUT DIAGONALLY ACROSS THE 4 INCH FACE TO MAKE TWO STAKES FROM EACH 3 FOOT LENGTH. ONLY NEW, SOUND LUMBER SHALL BE USED, AND ANY DEAD STOUT STAKES THAT SHATTER UPON INSTALLATION SHALL BE DISCARDED AND REPLACED.

INSTALLATION

1. PREPARE THE LIVE BRUSH FASCINE BUNDLE AND LIVE STAKES IMMEDIATELY BEFORE INSTALLATION.

2. BEGINNING AT THE BASE OF THE SLOPE (TOP OF RIPRAP) DIG A TRENCH ON THE CONTOUR APPROXIMATELY 6 TO 8 INCHES WIDE AND DEEP.

3. EXCAVATE TRENCHES UP THE SLOPE AT 5 FOOT INTERVALS FOR 2H:1V SLOPES OR FLATTER. EXCAVATE TRENCHES UP THE SLOPE AT 3 FOOT INTERVALS FOR SLOPES STEEPER THAN 2H:1V.

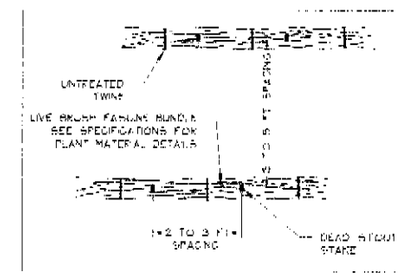
4. PLACE LONG STRAW AND ANNUAL GRASSES BETWEEN ROWS.

5. INSTALL AND SECURE THE EROSION CONTROL BLANKET AS SPECIFIED ON THE DETAIL SHEET.

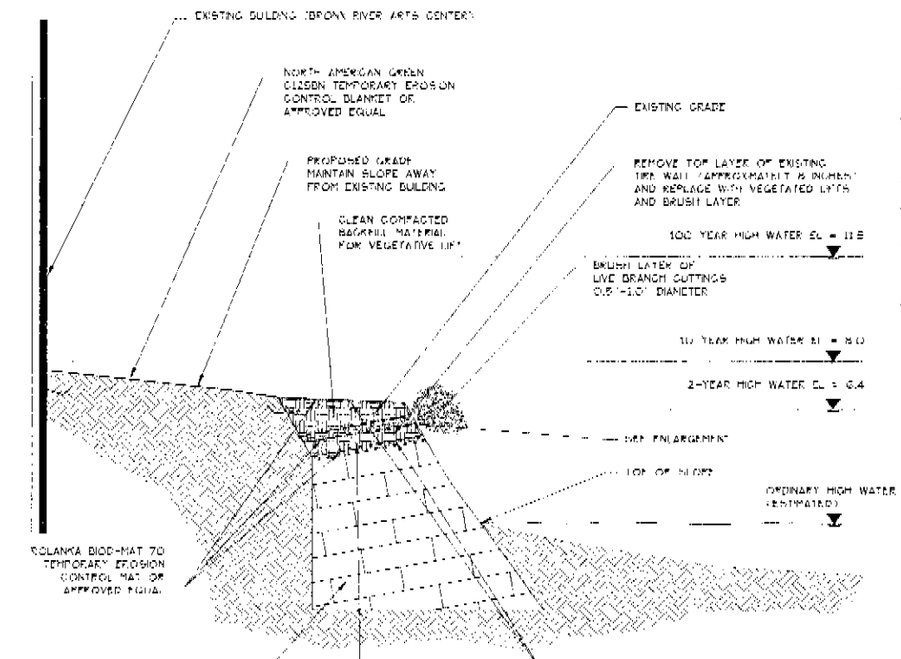
6. PLACE THE LIVE BRUSH FASCINE INTO THE TRENCH LEAVING APPROXIMATELY 1/4 OF THE LIVE FASCINE ABOVE GRADE.

7. DRIVE THE DEAD STOUT STAKES DIRECTLY THROUGH LIVE BRUSH FASCINE USING A 2 TO 3 FOOT SPACING. EXTRA STAKES SHOULD BE USED AT CONNECTIONS OR BUNDLE OVERLAPS. LEAVE THE TOP OF THE DEAD STOUT STAKES FLUSH WITH THE INSTALLED BUNDLE.

8. PLACE MOIST SOIL ALONG SIDES OF THE BUNDLES. THE TOP OF THE LIVE BRUSH FASCINE SHOULD BE VISIBLE WHEN THE INSTALLATION IS COMPLETED.

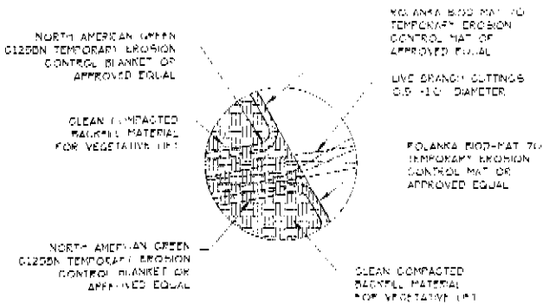


PLAN VIEW
SPACING FOR LIVE FASCINES



SECTION D-D

SCALE: 1 = 2



ENLARGEMENT

NOT TO SCALE
FOR ILLUSTRATIVE PURPOSES ONLY

NOTES FOR VEGETATIVE LIFTS
WITH BRUSH LAYER

NATURAL RESOURCES GROUP REPRESENTATIVE SHALL BE ON-SITE TO INSPECT INSTALLATION OF VEGETATIVE LIFTS AND BRUSH LAYER.

LIVE BRANCH CUTTINGS FOR BRUSH LAYER:
LIVE BRANCHES SHALL RANGE FROM 0.5 TO 1.0 INCHES IN DIAMETER AND SHALL BE 4 TO 6 FEET IN LENGTH.

VEGETATIVE LIFTS:
SEE SPECIFICATIONS FOR INSTALLATION OF VEGETATIVE LIFTS.

GENERAL NOTES:

1. THE EXISTING INFORMATION ON THIS PLAN IS FROM A SURVEY FILED "TOPOGRAPHIC SURVEY" BY LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES DATED NOVEMBER 10, 2005.

2. ELEVATIONS SHOWN ARE REFERENCED TO THE BRONX BOROUGH DATUM.

3. EXISTING CONDITIONS OF THE BRONX RIVER SHOWN BELOW THE TOP OF SLOPE ARE ASSUMED AND ARE NOT TO SCALE.

4. HIGH WATER ELEVATIONS FOR THE 10-YEAR AND 100-YEAR STORM EVENT WERE OBTAINED FROM THE FLOOD INSURANCE STUDY FOR THE CITY OF NEW YORK BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY DATED MAY 16, 1983. HIGH WATER ELEVATIONS FOR THE 2-YEAR STORM EVENT WERE ESTIMATED BASED UPON AVAILABLE INFORMATION MODELED WITH FLOWMASTER SOFTWARE.

NO	DATE	REVISION / SUBMITTAL
1	[illegible]	[illegible]
2	[illegible]	[illegible]
3	[illegible]	[illegible]
4	[illegible]	[illegible]
5	[illegible]	[illegible]
6	[illegible]	[illegible]

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ENGINEERING & ENVIRONMENTAL SERVICES
[illegible]

City of New York
Parks & Recreation
Arsenal Center
Flushing Meadows Corona Park
Flushing, New York 11368

PROJECT TITLE:
THE RECONSTRUCTION OF BRONX RIVER (WEST FARMS) PARK, LOCATED AT EAST 179th STREET BETWEEN EAST 180th STREET AND EAST TREMONT AVENUE, BOROUGH OF BRONX (BLOCK 3141, LOTS 1, 14 & 17)

LOT FILE# X550.45

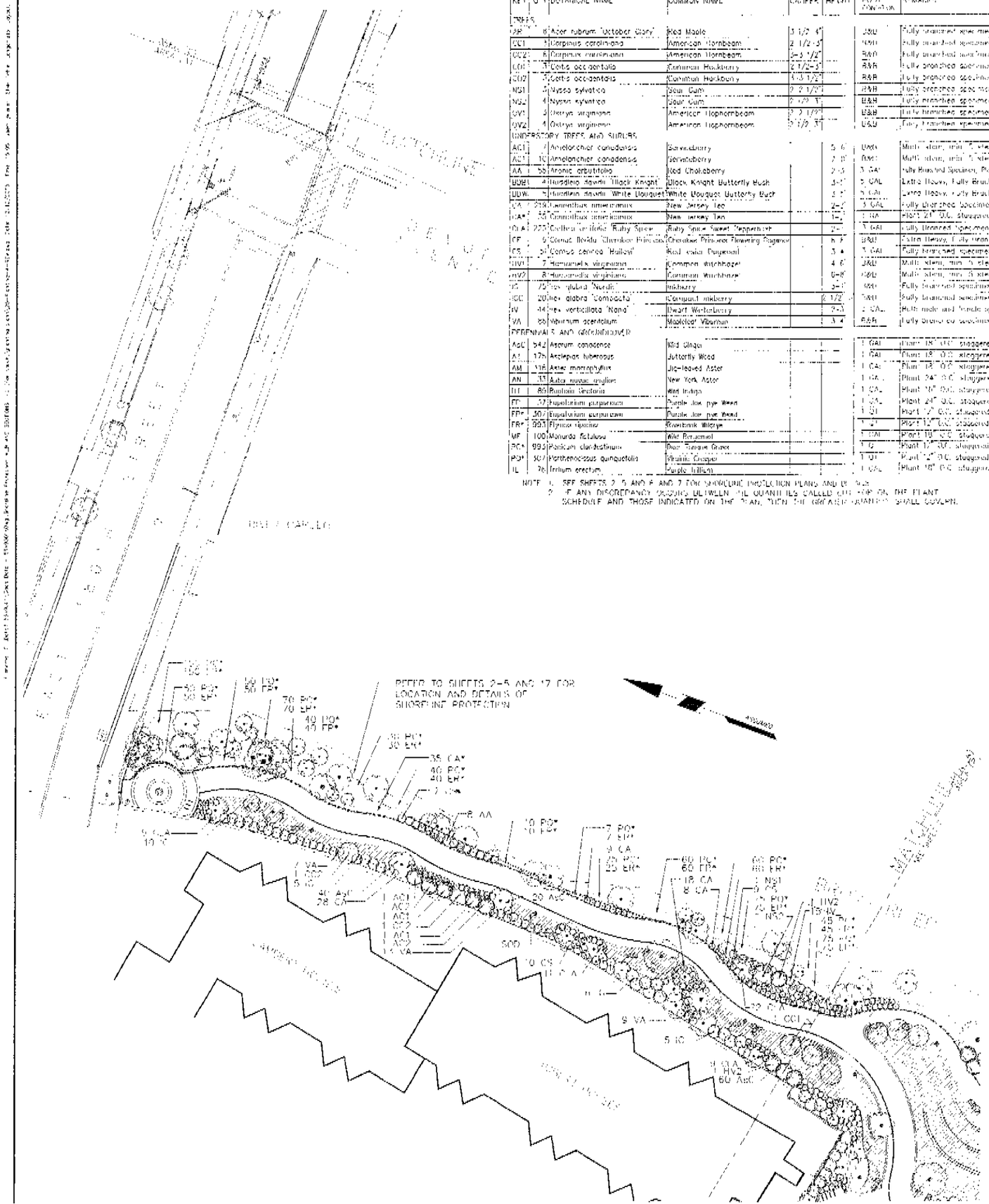
DRAWING TITLE: SHORELINE PROTECTION SECTIONS - 2

DESIGNED BY: KBG | DRAWN BY: KBG | CHECKED BY: DJB, JMC

REVIEWED: TEAM LEADER: [illegible] | ASSOCIATE DIRECTOR OF DESIGN: Hoyt/Ingo Sauer, RLA / David Jensen, RLA / Charles McKinney
APPROVED: CHIEF ENGINEER: JOHN J. TAFOR | CONTRACT NO. X550.45-102M

THE ABOVE SIGNATURES DO NOT IN ANY WAY RELIEVE THE CONSULTANTS FROM THEIR DUTY OF PROVIDING AN ACCURATE AND COMPLETE SET OF CONTRACT DOCUMENTS.

DATE: 11/[illegible]/06 | SCALE: 1"=2' | SHEET NO. 5 OF 17 SHEETS



KEY	Q'Y	BOTANICAL NAME	COMMON NAME	CALIPER	HEIGHT	POTT CONDITION	REMARKS
TREES							
AR	8	Acer rubrum 'October Glory'	Red Maple	3 1/2"-4"		J&B	Fully branched specimen - limbed up 7' Plant in spring
CC1	3	Carpinus caroliniana	American Hornbeam	2 1/2"-3"		B&B	Fully branched specimen - limbed up 7' Plant in spring
CC2	6	Carpinus caroliniana	American Hornbeam	3-3 1/2"		B&B	Fully branched specimen - limbed up 7' Plant in Spring
CO1	3	Celtis occidentalis	Common Hackberry	2 1/2"-3"		B&B	Fully branched specimen - limbed up 7'
CO2	3	Celtis occidentalis	Common Hackberry	3-3 1/2"		B&B	Fully branched specimen - limbed up 7'
NS1	3	Nyssa sylvatica	Sour Gum	2-2 1/2"		B&B	Fully branched specimen - limbed up 7' Plant in Spring
NS2	4	Nyssa sylvatica	Sour Gum	2-2 1/2"		B&B	Fully branched specimen - limbed up 7' Plant in Spring
OV1	3	Ostrya virginiana	American Hophornbeam	2-2 1/2"		B&B	Fully branched specimen - limbed up 7' Plant in Spring
OV2	4	Ostrya virginiana	American Hophornbeam	2 1/2-3"		B&B	Fully branched specimen - limbed up 7' Plant in Spring
UNDERSTORY TREES AND SHRUBS							
AC1	7	Amelanchier canadensis	Serviceberry		5-6'		Multi stem, min. 3 stems, Extra heavy
AC2	10	Amelanchier canadensis	Serviceberry		7-8'		Multi stem, min. 3 stems, Extra heavy
AA	55	Aronia arbutifolia	Red Chokeberry		2-3'		3 Gal Fully Branched Specimen, Plant 36" O.C.
BDB1	4	Buddleia davidii 'Black Knight'	Black Knight Butterfly Bush		3-4'		5 Gal Extra Heavy, Fully Branched Min. 3 stems, Plant as Shown
BDW	5	Buddleia davidii 'White Bouquet'	White Bouquet Butterfly Bush		3-4'		5 Gal Extra Heavy, Fully Branched, Min. 3 stems, Plant as Shown
CA	218	Ceanothus americanus	New Jersey Tea		2-2'		3 Gal Fully Branched Specimen, Plant 24" O.C. staggered
CA*	53	Ceanothus americanus	New Jersey Tea		1-2'		Plant 24" O.C. staggered between live stakes (see det. 4 for detail)
CA1	223	Clethra alnifolia 'Ruby Spice'	Ruby Spice Sweet Pepperbush		2-3'		3 Gal Fully Branched Specimen, Plant 30" O.C.
CF	9	Cornus florida 'Cherokee Princess'	Cherokee Princess Flowering Dogwood		8-9'		Extra Heavy, Fully branched, Multi-stem, min. 3 stems
CS	81	Cornus sericea 'Hallow'	Red osier Dogwood		3-4'		3 Gal Fully branched specimen Plant 36" O.C.
HV1	7	Hamamelis virginiana	Common Witchhazel		4-6'		Multi stem, min. 3 stems, Extra heavy
HV2	8	Hamamelis virginiana	Common Witchhazel		6-8'		Multi stem, min. 3 stems, Extra heavy
IG	75	Ilex glabra 'Nordic'	Inkberry		3-4'		Fully branched specimen, Plant 36" O.C.
IGC	20	Ilex glabra 'Compacta'	Compact Inkberry		2 1/2"-3'		Fully branched specimen, Plant 30" O.C.
IV	44	Ilex verticillata 'Nana'	Dwarf Winterberry		2-3'		2 Gal. Multi male and female specimens required, fully branched, Plant 24" O.C.
VA	55	Viburnum acerifolium	Mapleleaf Viburnum		3-4'		B&B Fully branched specimen, Plant 36" O.C.
PERENNIALS AND GROUNDCOVER							
ASC	542	Asarum canadense	Wild Ginger				1 Gal Plant 18" O.C. staggered
AT	175	Asclepias tuberosus	Butterfly Weed				1 Gal Plant 18" O.C. staggered
AM	116	Aster macrophyllus	Big-leaved Aster				1 Gal. Plant 18" O.C. staggered
AN	33	Aster novae-anglae	New York Aster				1 Gal. Plant 24" O.C. staggered
BI	80	Baptisia tinctoria	Wild Indigo				1 Gal. Plant 18" O.C. staggered
EC	57	Eupatorium purpureum	Purple Joe pye Weed				1 Gal. Plant 24" O.C. staggered
EP*	307	Eupatorium purpureum	Purple Joe pye Weed				1 Gal Plant 12" O.C. staggered between live stakes (see det. 4 for detail)
ER*	993	Elymus riparius	Riverbank Wildrye				1 Gal Plant 12" O.C. staggered between live stakes (see det. 4 for detail)
MF	100	Monarda fistulosa	Wild Bergamot				1 Gal Plant 18" O.C. staggered
PCA	993	Panicum clandestinum	Deer Tongue Grass				1 Gal Plant 12" O.C. staggered between live stakes (see det. 4 for detail)
PO*	507	Parthenocissus quinquefolia	Virginia Creeper				1 Gal Plant 12" O.C. staggered between live stakes (see det. 4 for detail)
TE	76	Trilium erectum	Purple Trillium				1 Gal Plant 18" O.C. staggered

NOTE 1. SEE SHEETS 2-5 AND 8 AND 7 FOR SHORELINE INSTALLATION PLANS AND DETAILS
2. IF ANY DISCREPANCY OCCURS BETWEEN THE QUANTITIES CALLED OUT FOR ON THE PLANT SCHEDULE AND THOSE INDICATED ON THE PLAN, THEN THE GRAPHIC QUANTITIES SHALL GOVERN.

PLANTING NOTES

1. NO SUBSTITUTIONS WILL BE ACCEPTABLE UNLESS APPROVED BY THE RESIDENT ENGINEER.

2. ANY DISCREPANCY BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN ON THE PLANS, MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE RESIDENT ENGINEER. WORK SHALL NOT PROCEED UNTIL THE DISCREPANCY IS RESOLVED AND WRITTEN APPROVAL FROM THE RESIDENT ENGINEER IS OBTAINED.

3. CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER IN WRITING OF ANY SOIL OR DRAINAGE CONDITIONS WHICH THE CONTRACTOR CONSIDERS DETRIMENTAL TO THE GROWTH OF PLANTS.

4. ALL PLANT PITS SHALL BE WRAPPED TO FACILITATE DRAINAGE BETWEEN PLANTS AND SITE BOUND.

5. ALL PLANTS SHALL BE FRESHLY DUG, NEITHER HEELED IN PLANTS NOR PLANTS FROM COLD STORAGE WILL BE ACCEPTED.

6. PLANT SIZES SPECIFIED ARE TO BE CONSIDERED MINIMUM. CONTRACTOR SHALL NOTIFY RESIDENT ENGINEER OF ANY DISCREPANCY.

7. ALL PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE RESIDENT ENGINEER. THE RESIDENT ENGINEER RESERVES THE RIGHT TO REJECT UNACCEPTABLE PLANT MATERIAL ON OR AFTER DELIVERY TO THE SITE.

8. ALL TOPSOIL SHALL BE FREE OF ALL DEBRIS, STONES, ROOTS AND GRASS, AS WELL AS WEED SEED OR ANY GRASS.

9. ALL PLANTING PITS TO BE MULCHED WITH SHREDDED HARDWOOD MULCH IMMEDIATELY AFTER PLANTING. ALL MULCH SHALL BE FREE OF ANY FOREIGN SUBSTANCE AND SUBJECT TO ANY AREA. MULCH SHALL BE SPREAD TO THE DEPTHS INDICATED ON THE DRAWINGS.

10. SOD SHALL BE A MINIMUM 2 YEAR GROWN FROM HIGH QUALITY SEED AS KNOWN ORIGIN. SOD IS TO BE INSPECTED BY A CERTIFICATION AGENCY TO ASSURE NATURALLY GROWN, DENSITY AND PURITY, OVERALL HIGH QUALITY, AND FREEDOM FROM NOXIOUS WEEDS AT TIME OF HARVEST.

11. THE BLENDING OF GRASS IN SOD SHALL BE ONE IN THOSE USED BELOW AND SHALL BE HARVESTED FROM ONE FIELD TO INSURE A UNIFORM COLOR AND TEXTURE. SPECIFICATIONS OF EACH GRASS SPE. ARE TO BE WITHIN THE GIVEN RANGE FOR THAT TYPE.

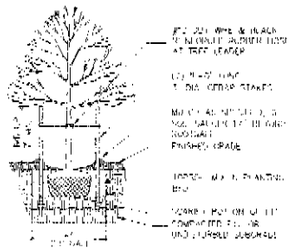
12. 90% TALL FESCUE - ONE OR MORE OF THE FOLLOWING VARIETIES: AVENTIL, ARID, JUNIPER, FALCON, JAGUAR, MUSTANG, PERFECTA.

10-20% BLUEGRASS - ONE OR MORE OF THE FOLLOWING VARIETIES: BENSON (A-34), BONUS, COLONIAL, DYNA, FUSHOWN.

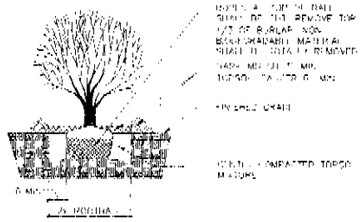
0-10% PERENNIAL RYEGRASS - ONE OR MORE OF THE FOLLOWING: CARPETTES, ALL STAR, DA MOR, FLAMANO, PRELUDE, PREMIER, YORKTOWN II

LEGEND

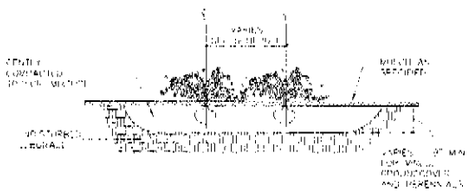
- CONTRACT LIMIT LINE
- PROPERTY LINE
- CONSTRUCTION FENCE
- EXISTING TREES AND SHRUBS TO REMAIN
- EXISTING TREES TO REMAIN
- PROPOSED LIGHT POLES (SEE DETAIL SHEET FOR STANDARD LOCATION - TYPICAL UNLESS SPECIFIED)
- DECORATIVE SITE FENCE 5' 6" HIGH
- SITE FENCE 7' 6" HIGH
- PROPOSED FIRE EXIT PANEL
- CONCRETE WITH TYPE WORLD'S FAIR BENCH AND BIKE RACK SET
- SHRINKING CONTOUR LINE
- TRACE PROTRACTOR
- SINGLE GATE
- DOUBLE GATE 6' 0" HIGH
- BICYCLE RACKS
- LANDSCAPE BOULDERS, TYP.
- PARK IDENTIFICATION PLAQUE
- REMOVABLE BOLLARD
- FIXED BOLLARD
- DECIDUOUS TREE
- MULCH SAUCER
- DECIDUOUS & EVERGREEN SHRUBS
- SOD WITH COMPOST
- MATERIALS INSTALLED IN CONJUNCTION WITH SHORELINE PROTECTION



1 DECIDUOUS TREE PLANTING DETAIL
SCALE: N.T.S.



2 SHRUB PLANTING DETAIL
SCALE: N.T.S.



3 PERENNIAL & GROUNDCOVER PLANTING DETAIL
SCALE: N.T.S.

5			PERMITTING PLANS
4			FINAL SUBMISSION
3		09/23/06	100% REVISED SUBMISSION (PLAN CHANGES)
2		05/15/06	100% DESIGN SUBMISSION
1		12/08/05	50% DESIGN SUBMISSION (PLAN CHANGES)
0		10/4/05	50% DESIGN SUBMISSION
NO.	DATE		REVISION / SUBMITTAL

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PROJECT TITLE
THE RECONSTRUCTION OF BRONX RIVER (WEST FARMS) PARK, LOCATED AT EAST 179th STREET BETWEEN EAST 180th STREET AND EAST TREMONT AVENUE, BOROUGH OF BRONX (BLOCK 3141, LOTS 1, 14 & 17)

PLOT PN# X850.05

DRAWING TITLE PLANTING PLAN & DETAILS - AREA (A)

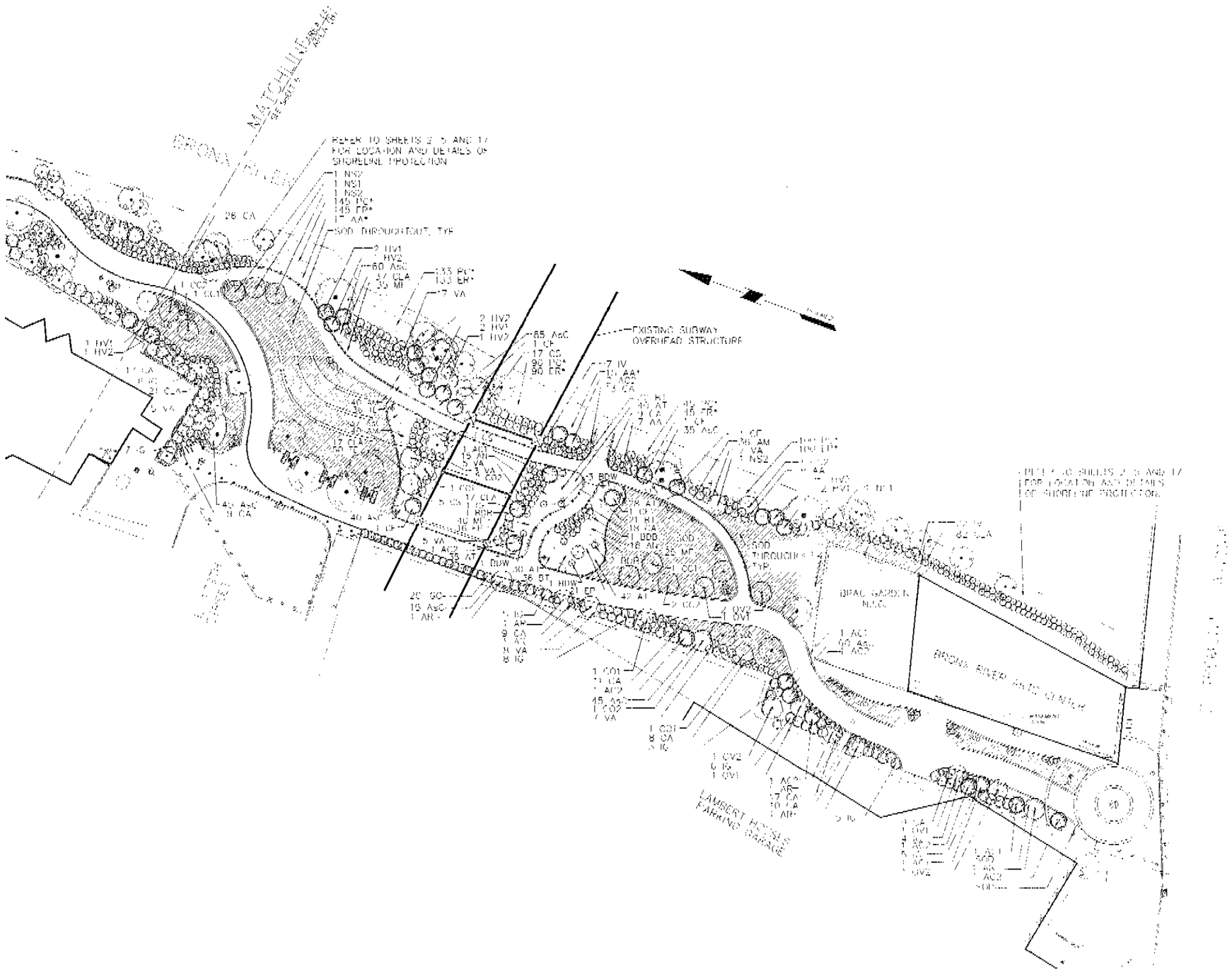
DESIGNED BY JDN | DRAWN BY JDN, MS, JJ | CHECKED BY MKV, JMK

REVIEWED BY Katyrubico Gomez, RA | Kenneth Gorman, RA | APPROVED BY Carmen McKinney

ARCHITECT OF RECORD JOHN J. NATT

THE ABOVE SIGNATURE(S) OF A LICENSED ARCHITECT(S) OR CONSULTANT(S) FOR THIS ITEM IS/ARE ONLY VALID WHEN ACCOMPANIED BY A SEALED AND DATED LETTER OF CONCURRENCE.

DATE 11/21/06 | SCALE 1"=20'-0" | SHEET NO. 6 OF 17



LEGEND

- CONTRACT LIMIT LINE
- PROPERTY LINE
- CF — CONSTRUCTION FENCE
- EXISTING DRAINS AND MANHOLES TO REMAIN
- EXISTING TREE TO REMAIN
- PROPOSED LIGHT POLES NICHOLS STANDARD LIGHTING "LUMEC" "CANELLA" MODEL SANDALT 10
- DECORATIVE STEEL FENCE 5'-0" HT
- STEEL FENCE 4'-0" HT
- PERFORATED PIPE RAIL FENCE
- CANTILEVER W/ 12" DIA WOODEN PAW BENCH END ARM RESTS ONLY
- DRAINS TO MAINTAIN
- GRAVEL SCUTTLES
- TRUCK GATE
- DOUBLE GATE IN 4' HT FENCE
- BICYCLE RACKS
- LANDSCAPE BOULDERS, TYP
- PARK IDENTIFICATION SIGN
- REMOVABLE BOLLARD
- FIXED BOLLARD
- DECIDUOUS TREE
- MULTI STEM TREE
- CONIF DECIDUOUS & EVERGREEN SHRUBS
- SOD WITH COMPOST
- * MATERIALS TO BE PLANTED IN CONJUNCTION WITH SHORELINE PROTECTION

NOTE:

FOR PLANT SCHEDULE, PLANTING NOTES AND PLANTING DETAILS SEE PLANTING PLAN & DETAILS - AREA A, SHEET 6.

NO	DATE	REVISION / SUBMITTAL
4	10/04/[illegible]	PERMITTING PLANS
3	[illegible]	FINAL SUBMISSION
2	09/[illegible]/06	100% REVISED SUBMISSION (PLAN CHANGE)
1	06/23/06	[illegible]
0	12/06/05	50% REVIEW SUBMISSION
NO	DATE	REVISION / SUBMITTAL

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CITY PM# [illegible]

DRAWING TITLE: PLANTING PLAN & DETAILS - AREA (B)

DESIGNED BY: JCN	DRAWN BY: JCN, SDC, JL	CHECKED BY: YKM, JM
PROJECT MANAGER: Raymond Gomez, P.A.	APPROVED BY: CONSTRUCTION MANAGER: David Garner, RLA	CHIEF OF DESIGN: Charles McGinley
APPROVED BY: CHIEF ENGINEER: [illegible]	CONTRACT NO. X258-102LD	

THE ABOVE MATERIALS DO NOT PLANS WAS REPRODUCED FROM THE CONSULTANTS FROM THE OFFICE OF [illegible] CONTRACT DOCUMENTS

DATE: 11/20/06	SCALE: 1" = 20'-0"	SHEET NO. 7 OF 17