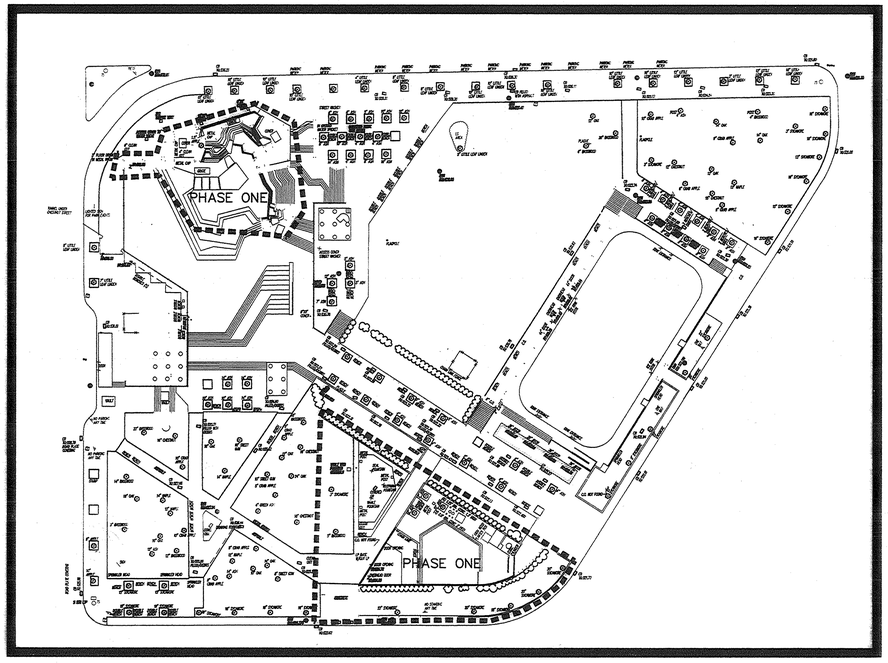
MANHATTAN SQUARE PARK
REVITALIZATION PROJECT
PHASE ONE IMPROVEMENTS



CLIENT:

CITY OF ROCHESTER
DEPARTMENT OF ENVIRONMENTAL SERVICES
ENGINEERING SERVICES

DESIGN TEAM:

DUFRESNE - HENRY

KEN SMITH LANDSCAPE ARCHITECT

BARKSTROM & LACROIX

SONARC

NORTH AMERICAN ICE

RECORD DRAWING

THESE DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS AND TO THE BEST OF OUR KNOWLEDGE REPRESENT CONDITIONS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND / OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED HEREIN AS A RESULT.

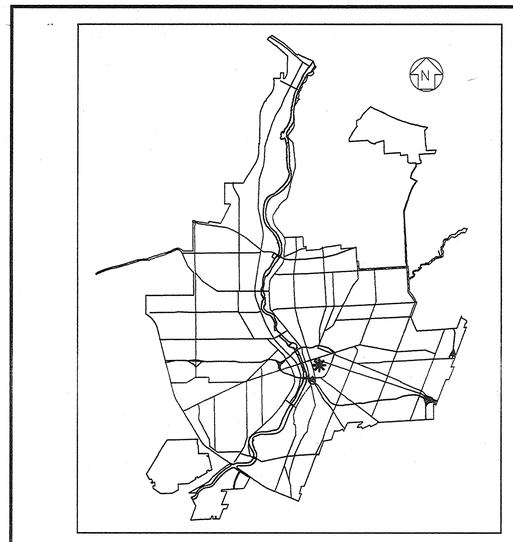
APPROVED BY: _____
EDWARD J. DOHERTY
COMM. OF ENVIRONMENTAL SERVICES

APPROVED BY: _____
GEORGE H. STAM, PE
CITY ENGINEER

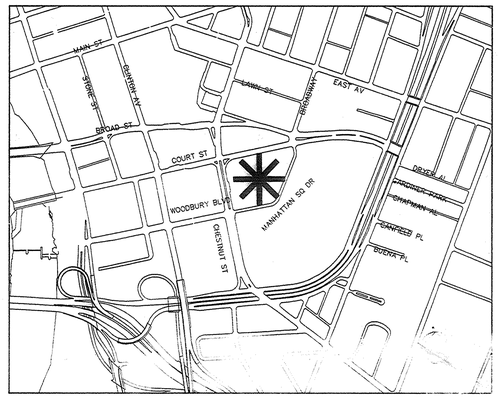
APPROVED BY: _____
LORETTA C. SCOTT
COMMISSIONER OF DEPARTMENT OF PARKS, RECREATION AND HUMAN SERVICES

PROJECT NO: 98037

REVISED 4/27/05



CITY OF ROCHESTER
(Not To Scale)



LOCATION MAP
(Not To Scale)

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1 – PER ADDENDUM 2 DATED 5-9-05

GENERAL NOTES

1. THE CONTRACTOR IS TO FOLLOW THE PROVISIONS OF THE CITY OF ROCHESTER STANDARD SPECIFICATIONS, EXCEPT FOR THOSE AS REVISED IN THE SPECIFICATION SECTION OF THE CONTRACT DOCUMENTS. THE REVISED SPECIFICATION SUPERSEDES THE STANDARD SPECIFICATION.

2. THE CONTRACTOR IS TO USE THE CITY OF ROCHESTER STANDARD DETAILS, EXCEPT FOR THOSE DELINEATED WITHIN THE CONTRACT PLANS. THE DETAILS DELINEATED WITHIN THE CONTRACT PLANS SUPERSEDE THE STANDARD DETAIL.

3. INFORMATION SHOWN ON THE DRAWING IS BASED ON A SURVEY COMPLETED BY FISHER ASSOCIATES ON JULY 30, 2004. DUFRESNE-HENRY ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE INFORMATION DEPICTED HERIN.

4. THESE DRAWINGS HAVE BEEN PREPARED BASED ON FIELD INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS IN CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE FIELD CONDITIONS.

5. THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL EXISTING AND GIVEN CONDITIONS AND DIMENSIONS WITH THOSE SHOWN ON THE PLANS. IF THE FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESIDENT PROJECT REPRESENTATIVE (RPR) AND ENGINEER OF ANY DISCREPANCIES BETWEEN THE CONTRACT DRAWINGS AND / OR EXISTING FIELD CONDITIONS.

6. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER AND / OR RPR.

7. ANY / ALL ALTERATIONS TO THE PLANS SHOWN HERE MUST HAVE PRIOR APPROVAL BY THE RPR / ENGINEER.

8. THE PLANS SHOW KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND SURFACES AND / OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA. EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATIONS OF SUCH PIPELINES, SUBSURFACE STRUCTURES, UTILITIES AND / OR SERVICES IN THE AREA MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. THE CONTRACTOR MUST CALL DIG SAFELY NEW YORK AT 1-800-962-7962 AT LEAST 72 HOURS BEFORE HE DIGS, DRILLS OR BLASTS. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL DIGSAFE MARKINGS / STAKEOUTS ARE COMPLETE.

9. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED AS NEEDED BY THE CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO WORK.

10. BEFORE CONSTRUCTING LINES REQUIRING CONNECTION TO EXISTING UTILITIES, VERIFY EXISTING UTILITY INVERTS AND NOTIFY RPR AND ENGINEER IF ANY VARIATION FROM THE PLANS IS REQUIRED.

11. THE CONTRACTOR IS RESPONSIBLE FOR ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP-AS-BUILT PLANS FOR ALL UTILITIES, SHOWING TIES TO CONNECTIONS, BENDS, VALES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND HIS REPRESENTATIVES, AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OF OMISSIONS TO THE SATISFACTION OF THE OWNER AND HIS REPRESENTATIVES BEFORE THE AS-BUILT PLANS ARE ACCEPTED.

12. ALL RIGHT-OF-WAY MONUMENTS AND PROPERTY CORNERS ARE TO BE SAFEGUARDED AND PRESERVED. ALL RIGHT-OF-WAY MONUMENTS AND PROPERTY CORNERS THAT ARE DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION ARE TO BE REPLACED BY A NYS LICENSED SURVEYOR AT THE CONTRACTORS' EXPENSE.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING BARRIERS TO PREVENT PUBLIC ENTRY TO ANY AREAS OF CONSTRUCTION INCLUDING HOLES, TRENCHES, PILES OF FILL MATERIAL, CONSTRUCTION MATERIALS, AND ANY OTHER CONSTRUCTION HAZARDS. BARRIERS SHALL BE PROVIDED AT ALL HOURS AND SHALL CLEARLY INDICATED THE AREA NOT TO BE TRESPASSED.

14. THE CONTRACTOR SHALL MAINTAIN ACCESS TO EXISTING BUSINESSES AND RESIDENTIAL PROPERTIES AT ALL TIMES DURING CONSTRUCTION.

15. THE CONTRACTOR SHALL CONDUCT HIS OPERATION SO AS TO INTERFERE AS LITTLE AS POSSIBLE WITH THE PASSAGE OF VEHICLES AND OTHER KINDS OF TRAFFIC. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN APPROPRIATE WARNING SIGNS WHERE SUCH TRAFFIC IS TO BE EXPECTED, IN ORDER TO PROTECT IT FROM DANGER DUE TO THE OPERATIONS.

16. ALL TRENCH EXCAVATIONS SHALL BE BACK FILLED TO THE EXISTING GRADE AT THE END OF EACH WORK DAY. PROVIDED ADEQUATE SAFETY MEASURES AT ALL TIMES.

17. THE CONTRACTOR SHALL EXERCISE CARE TO MINIMIZE CLEARING. NO CLEARING SHALL BE PERFORMED OUTSIDE THE LIMITS SHOWN ON THE PLANS.

18. THE CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO THE EXISTING UTILITIES. DAMAGED UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTORS' EXPENSE.

19. THE CONTRACTOR SHALL OBTAIN PERMISSION AND NOTIFY THE RPR / OWNER 48 HOUR PRIOR TO SHUTTING OFF WATER OR SEWER SERVICES. THE CONTRACTOR SHALL RECONNECT WATER AND SEWER SERVICES AT HE END OF EACH DAY.

20. ALL UTILITY WORK INVOLVING CONNECTIONS TO THE EXISTING SYSTEM SHALL BE COORDINATED WITH THE RPR, CITY OF ROCHESTER, AND THE UTILITY OWNER.

21. ANY OPENINGS IN THE SIDEWALLS OF EXISTING MANHOLES CREATED BY RELOCATING PIPES SHALL BE BRICKED, MORTARED AND COATED WITH COPPERS SUPER SERVICE BLACK OR APPROVED EQUAL.

22. ALL PIPES INSTALLED UNDER PAVEMENT, SIDEWALKS, OR SAFETY SURFACES SHALL BE BACK FILLED WITH SELECT GRANULAR FILL AND COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY. IN GRASS AREAS, PIPES MAY BE BACK FILLED WITH SUITABLE NATIVE MATERIAL NO LARGER THAN 4" IN SIZE TO 90% OF STANDARD PROCTOR MAXIMUM DENSITY.

23. THE CONTRACTOR SHALL MAINTAIN FLOW FOR ALL EXISTING UTILITIES UNLESS OTHERWISE APPROVED BY THE RPR OR ENGINEER.

24. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT DIRT, DEBRIS AND CONSTRUCTION MATERIAL FROM ENTERING THE SEWER MAIN, LATERALS, CATCH BASINS, MANHOLES AND OTHER APPURTENANCES DURING CONSTRUCTION.

25. THE CONTRACTOR SHALL GRADE ALL AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE.

26. ALL NEW VALVE BOXES, CLEANOUTS, ETC. CONSTRUCTED WITHIN PAVED AREAS SHALL HAVE THE TOPS SET FLUSH WITH FINISHED GRADE. IN LANDSCAPED AREAS, ALL VALVE BOXES, CLEANOUT, ETC., SHALL BE SET 0.1' ABOVE THE FINISHED GRADE.

27. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.

28. SUBGRADE IS TO BE PROOF ROLLED WITH A 10-TON OR EQUIVALENT VIBRATORY ROLLER. SOFT SPOTS SHALL BE UNDERCUT (12" MINIMUM DEPTH) AND REPLACED WITH MATERIAL CONFORMING TO NYSDOT ITEM 304.06 AND COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.

29. CRUSHED STONE SHALL CONFORM TO NYSDOT ITEM NO. 304.06. MATERIAL SHALL BE THOROUGHLY COMPACTED WITH A 10-TON, OR EQUIVALENT VIBRATORY ROLLER IN 6" LIFTS MAXIMUM (COMPACTED THICKNESS) TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.

30. ASPHALT BINDER COURSE SHALL CONFORM TO NYSDOT TYPE 3 ASPHALT CONCRETE BINDER, ITEM NO. 403.13, AND BE PLACED ACCORDING TO SECTION 401 OF THE NYSDOT STANDARD SPECIFICATIONS.

31. ASPHALT TOP COURSE SHALL CONFORM TO NYSDOT TYPE 7 ASPHALT CONCRETE TOP, ITEM 403.16 AND BE PLACED ACCORDING TO SECTION 401 OF THE NYSDOT STANDARD SPECIFICATIONS.

32. SAWCUTS MADE IN PAVED AREAS ARE TO BE FULL DEPTH, WITH ALL OTHER SAW CUTS BEING A MINIMUM OF 2" IN DEPTH. FULL DEPTH PAVEMENT SAW CUTS WILL BE PAID FOR IN THE RESPECTIVE WORK RELATED ITEM. ALL SAW CUTS ARE TO BE SEALED WITH AN ASPHALT FILLER PER NYSDOT MATERIAL DESIGNATION 702-007 OR 702-340, THE COST OF WHICH IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE WORK RELATED ITEM.

33. IF PERCHED GROUND WATER IS ENCOUNTERED, THE BEARING GRADES SHOULD BE UNDERCUT TO PERMIT THE PLACEMENT OF A MINIMUM 6" BASE OF NO. 1 NO. 2 SIZE CRUSHED STONE. EXTEND THE STONE TO DAYLIGHT TO ALLOW DEWATERING AND STABILIZING. ANY WATER WHICH ENTERS THE EXCAVATION SHOULD BE PROMPTLY REMOVED USING APPROPRIATE METHODS OF DEWATERING. THE FINAL BEARING GRADES SHOULD BE FIRM, STABLE AND FREE OF ANY LOOSE SOIL, MUD, WATER AND FROST.

34. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS RELATING TO THE REMOVAL AND DISPOSAL OF ALL MATERIALS NOT CHOSEN TO BE KEPT BY THE OWNER.

35. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGES CAUSED BY HIS OPERATIONS. ALL DAMAGE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED, WITHOUT COST TO AND TO THE SATISFACTION OF THE OWNER.

36. SHOP DRAWINGS: SUBMIT COMPLETE CATALOG INFORMATION FOR ALL MATERIALS AND EQUIPMENT TO BE USED ON THIS PROJECT AS SPECIFIED ON THE DRAWINGS. DO NOT INSTALL ANY EQUIPMENT OR MATERIALS WITHOUT APPROVAL BY THE RPR. THE CONTRACTOR SHALL REPLACE, WITHOUT ADDITIONAL CHARGE, ANY WORK, MATERIALS OR EQUIPMENT NOT APPROVED BY THE RPR OR OWNER.

37. INSTALLATION OF MATERIALS AND EQUIPMENT SHALL BE MADE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

38. THE FINISHED INSTALLATION SHALL BE COMPLETE IN EVERY ASPECT AND DETAIL. ALL EQUIPMENT SHALL BE TESTED AND LEFT IN APPROPRIATE OPERATING CONDITION FOR THE OWNERS USE. ANY / ALL WARRANTIES AND MANUALS SHALL BE PROVIDED TO THE OWNER.

Planting Notes:

1. The Contractor shall furnish and install all plant materials in quantities sufficient to complete the planting shown on all drawings.

2. No plant shall be put into the ground before rough grading has been finished and approved by the project landscape architect.

3. The day prior to planting the location of all trees and shrubs shall be staked for approval by the project landscape architect.

Grading Notes:

1. All finished grades shall provide for natural runoff of water without low spots or pockets and shall maintain positive drainage toward the existing storm water system.

2. Conflicts or discrepancies with grades shall be brought to the attention of the rpr and engineer immediately and prior to proceeding with work.

3. Contractor shall be responsible for locating and noting any existing utility lines prior to grading, planting or other related site work. Restoration of utilities damaged by Contractor shall be made at the contractors expense to the satisfaction of the Owner.

Maintenance and Protection of Traffic Notes:

1. All requirements of the "New York State Manual of Uniform Traffic Control Devices", and its amendments, shall apply to this project. Work zones proposed by the Contractor, along with a project schedule, shall be approved by the project manager prior to construction.

2. Traffic shall be maintained during all hours

3. The Contractor is required to maintain access to all driveways and side roads at all times for pedestrians, vehicles and emergency vehicles, unless otherwise indicated by the rpr/engineer. Pedestrian access to buildings shall also be maintained. The cost of this work shall be considered subsidiary to the lump sum bid.

LEGEND

FEATURE	EXISTING	PROPOSED
MONUMENT	⊡	⊡
CONTROL POINT	△	△
SPOT ELEVATION	+ 385.42	+ 385.42
CONTOUR LINE	— — — 385 — — —	385
WALL OR CURB		
STEPS		
BUILDING		
TREE		
TREE IN PAVEMENT		
EVERGREEN TREE		
SHRUB		
HEDGE		
LIGHTPOLE		
SINGLE BENCH	BENCH	
DOUBLE BENCH	DOUBLE BENCH	
FLAGPOLE	FLAGPOLE	FLAGPOLE
CHAIN LINK FENCE		
SIGN		
CATCHBASINS		
STORM MANHOLE		
STORM SEWER	12" STORM	PROPOSED 12" STORM
UNDERDRAIN	4" UNDERDRAIN	PROPOSED 4" UNDER DRAIN
CLEAN OUT	C.O.	C.O.
SANITARY MANHOLE	S	S
SANITARY SEWER	8" SAN — SAN	PROPOSED 8" SANITARY SEWER
HYDRANT		
WATER MAIN	2" W — W	PROPOSED 2" WATER MAIN
WATER VALVE		
STEAM LINE	2" STEAM — S	PROPOSED 2" STEAM LINE — S
ELECTRICAL MANHOLE	E	E
ELECTRICAL PULL BOX	E	E
GAS VALVE		

ENGINEER & LANDSCAPE ARCHITECT
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LANDSCAPE ARCHITECT
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PLAYGROUND DESIGN
Sonic Architecture
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604-291-8890

Rev.	Description	Date	By
1	RECORD DRAWINGS	4.16.10	AAB

Manhattan Square Park
Phase One Rennovations

GENERAL NOTES & LEGEND

Project No.	7530024
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/23/04

RECORD DRAWING

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L 1.0

Sheet 2 of 38

E1 msp

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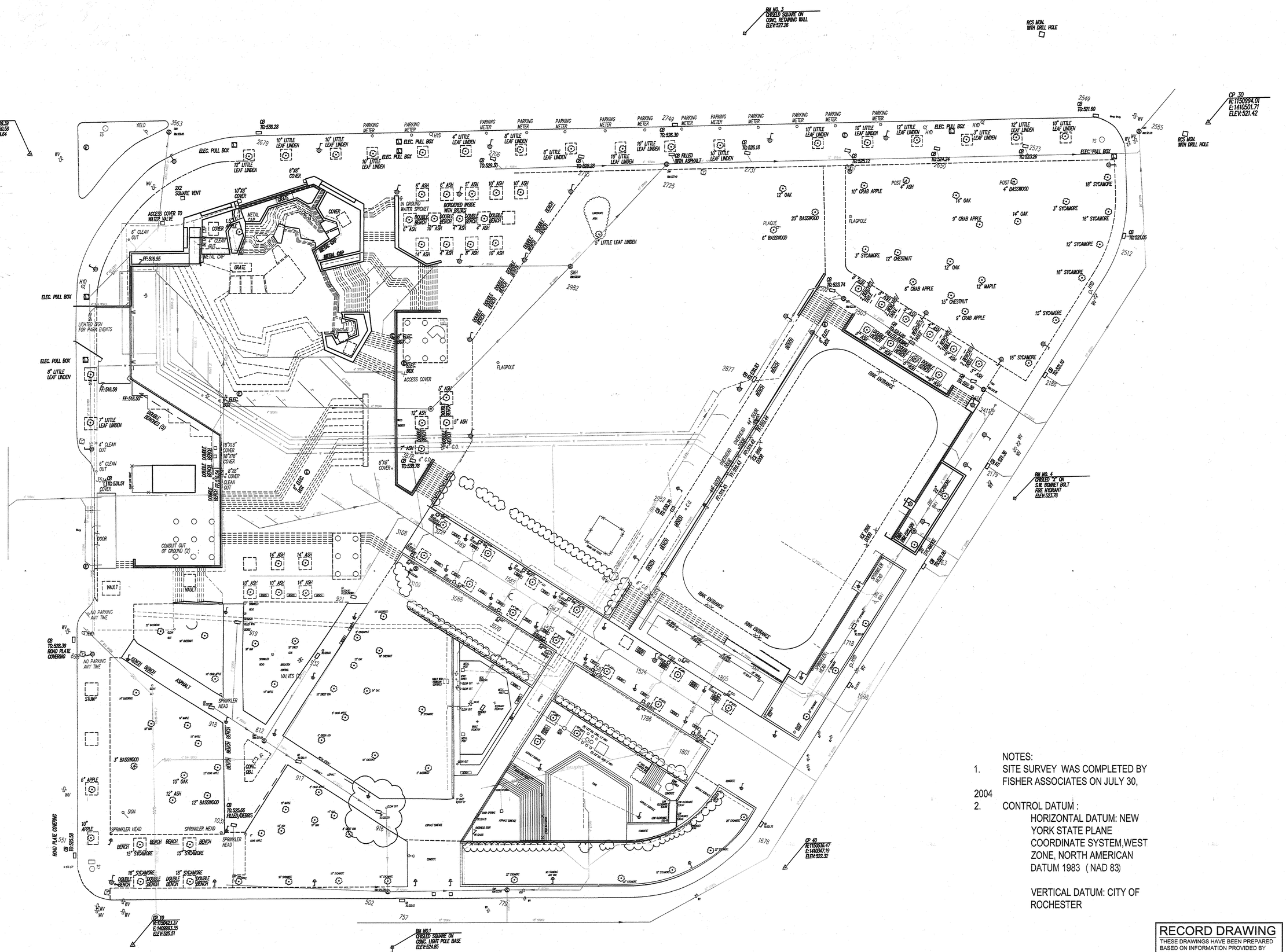
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E:1408850.58
ELEV:534.64
CP 30
N:1150894.01
E:1410501.71
ELEV:521.42
BM NO. 3
CHISELD SQUARE ON
CONC. RETAINING WALL
ELEV:527.26
RCS MON.
WITH DRILL HOLE
RCS MON.
WITH DRILL HOLE
ELEC. PULL BOX
12" LITTLE LEAF LINDEN
10" LITTLE LEAF LINDEN
PARKING METER
4" LITTLE LEAF LINDEN
8" LITTLE LEAF LINDEN
6" LITTLE LEAF LINDEN
CB FILLED WITH ASPHALT
12" LITTLE LEAF LINDEN
3" LITTLE LEAF LINDEN
10" LITTLE LEAF LINDEN
CB TG:536.28
CB TG:529.30
CB TG:526.30
CB TG:526.18
CB TG:525.12
CB TG:524.24
CB TG:523.26
CB TG:521.60
CB TG:521.06
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REMOVE ALL EXISTING CATCH BASINS (TYP.)
REMOVE ALL EXISTING BENCHES (TYP.)
REMOVE ALL BARBERRY (TYP.)
SAWCUT CONCRETE
REMOVE ALL CONCRETE IN ALTERNATE BID AREA TO EXIST. SUBGRADE
REMOVE ALL BARBERRY (TYP.)
LIMITS OF ALTERNATE BID NO. ONE
PROTECT EXIST. TELEPHONE & ELECTRICAL SERVICES. CO-ORDINATE DEMOLITION WITH ELECTRICAL CONTRACTOR
REMOVE ALL WATER SERVICES, SPRAY EQUIPMENT, VAULT, VALVES & TIMERS TO 2' BEYOND THE WALL
PLACE SILT FENCE & SAFETY FENCE TO PREVENT DAMAGE TO TREE ROOTS.
REMOVE CONC. "BOXES" AND ANY PIPES WITHIN (TYP.)
REMOVE TREE & ROOTS
REMOVE SECTION OF RAILING BETWEEN POSTS
REMOVE ALL SAFETY SURFACE AND CONCRETE TO THE EXISTING SUBGRADE
EXIST. RETAINING WALL AND "BENCH" TO REMAIN
SAWCUT WALL AND "BENCH"
REMOVE TREE & ROOTS
REMOVE RETAINING WALL AND RAILING TO NEAREST POST.
REMOVE ALL BENCHES WITHIN THE LIMITS OF PHASE ONE
REMOVE ALL ASPHALT TO THE EXISTING SUBGRADE
REMOVE ALL PRIOR SURFACING AND RELATED UNDERLAYMENT TO EXPOSE CONCRETE. EXPOSED CONCRETE SHALL BE CLEANED
SAWCUT EXIST. ASPHALT
PROTECT EXISTING SIGN AND FOUNDATION
LIMITS OF BASE BID
REMOVE CONCRETE TO EXIST. SUBGRADE
REMOVE EXISTING POLE AND CONC. BASE
ABANDON EXIST. WATER SERV. IN PLACE
REMOVE METAL POST (DRINKING FOUNTAIN)
REMOVE TREE
REMOVE ALL PRIOR SURFACING AND RELATED UNDERLAYMENT(PAVEMENT & STONE)
SALVAGE ALL 4'x4"x4" GRANITE PAVERS
REMOVE CONCRETE CYLINDERS
REMOVE EXISTING POLE AND CONC. BASE
REMOVE SAND DOWN TO EXISTING SUBGRADE (INCLUDING POROUS BLOCK AND ANY RESIDUAL FOOTERS OR TIMBERS)
REMOVE ALL TIMBER STEPS, WATERPROOF MEMBRANE AND MOUNTING BOLTS. EXPOSED CONCRETE SHALL BE CLEANED.
REMOVE ALL TIMBER STEPS, WATERPROOF MEMBRANE AND MOUNTING BOLTS. EXPOSED CONCRETE SHALL BE CLEANED.
REMOVE CHAIN LINK FENCE
REMOVE ALL GRASS
REMOVE ALL RED BARBERRY (TYP.)
REMOVE RED BARBERRY
EXISTING 4" DRAIN PIPE MAY BE ASBESTOS. REMOVE AND DISPOSE OF ACCORDING TO REGULATIONS WITHOUT FIELD SAW CUTTING. (SEE DWG. U10.0 FOR LIMITS)
REMOVE ALL PRIOR SURFACING AND RELATED UNDERLAYMENT TO EXPOSE CONCRETE. EXPOSED CONCRETE SHALL BE CLEANED
SAWCUT CONCRETE
REMOVE ALL TIMBER STEPS, WATERPROOF MEMBRANE AND MOUNTING BOLTS. EXPOSED CONCRETE SHALL BE CLEANED.
SAW OFF CONCRETE CYLINDER TO EXISTING SLAB HEIGHT
LIMITS OF PHASE ONE (BASE BID)
PROVIDE SAFETY FENCING AROUND TREES TO BE PRESERVED (TYP.) (SEE DETAIL FOR DIMENSIONS)
SAWCUT CONCRETE

NOTES:

1. CONTRACTOR TO REMOVE AND DISPOSE OF ALL MATERIAL AND ITEMS DESIGNATED AND NECESSARY TO PERFORM THE WORK. ALL MATERIAL AND ITEMS SHALL BE DISPOSED OF IN AN APPROVED FACILITY / LANDFILL IN A LEGAL MANOR. THE RPR MAY REQUIRE EVIDENCE DOCUMENTING LEGAL DISPOSAL. SEE SPECIFICATIONS FOR ANALYTICAL TEST RESULTS OF SAMPLES TAKEN OF THE RED ASPHALT SURFACE, SAND AND WOOD TIMBER.
2. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES DURING DEMOLITION INCLUDING, BUT NOT LIMITED TO: TELEPHONE, ELECTRIC, WATER AND SEWERS
3. THE EXISTING SPRAY ANIMALS AND ACTIVATOR BOLLARDS SHALL BE CAREFULLY REMOVED AND TRANSPORTED TO AN APPROVED LOCATION. THE CONTRACTOR SHALL NOTIFY THE RPR TO ARRANGE TIME OF REMOVAL, CONFIRM THE LOCATION, AND TRANSPORT THEM TO IT
4. CONTRACTOR SHALL CAREFULLY REMOVE SPECIFIED LIGHT POLES AND TRANSPORT THEM TO A CITY WAREHOUSE. CONTRACTOR SHALL CALL THE BUREAU OF WATER AND LIGHTING TO CONFIRM THE WAREHOUSE LOCATION.
5. CONTRACTOR SHALL REMOVE EXISTING GRANITE PAVERS AND TRANSPORT THEM TO AN APPROVED LOCATION.
6. SEE DRAWING L 1.0 FOR ADDITIONAL NOTES.

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Rev.	Description	By	Date
1	PER ADDENDUM 2 DATED 5/9/05	SRP	9/5/05
2	RECORD DRAWINGS	AAB	4.16.10

Manhattan Square Park
Phase One Renovations

DEMOLITION PLAN

Project No.	7530004
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	1/8" = 1'
Approved	D.A.H.
Date	12/23/04

L 3.0

Sheet 4 of 38
E1 msp

ORIGINAL SHEET – 30 X 42

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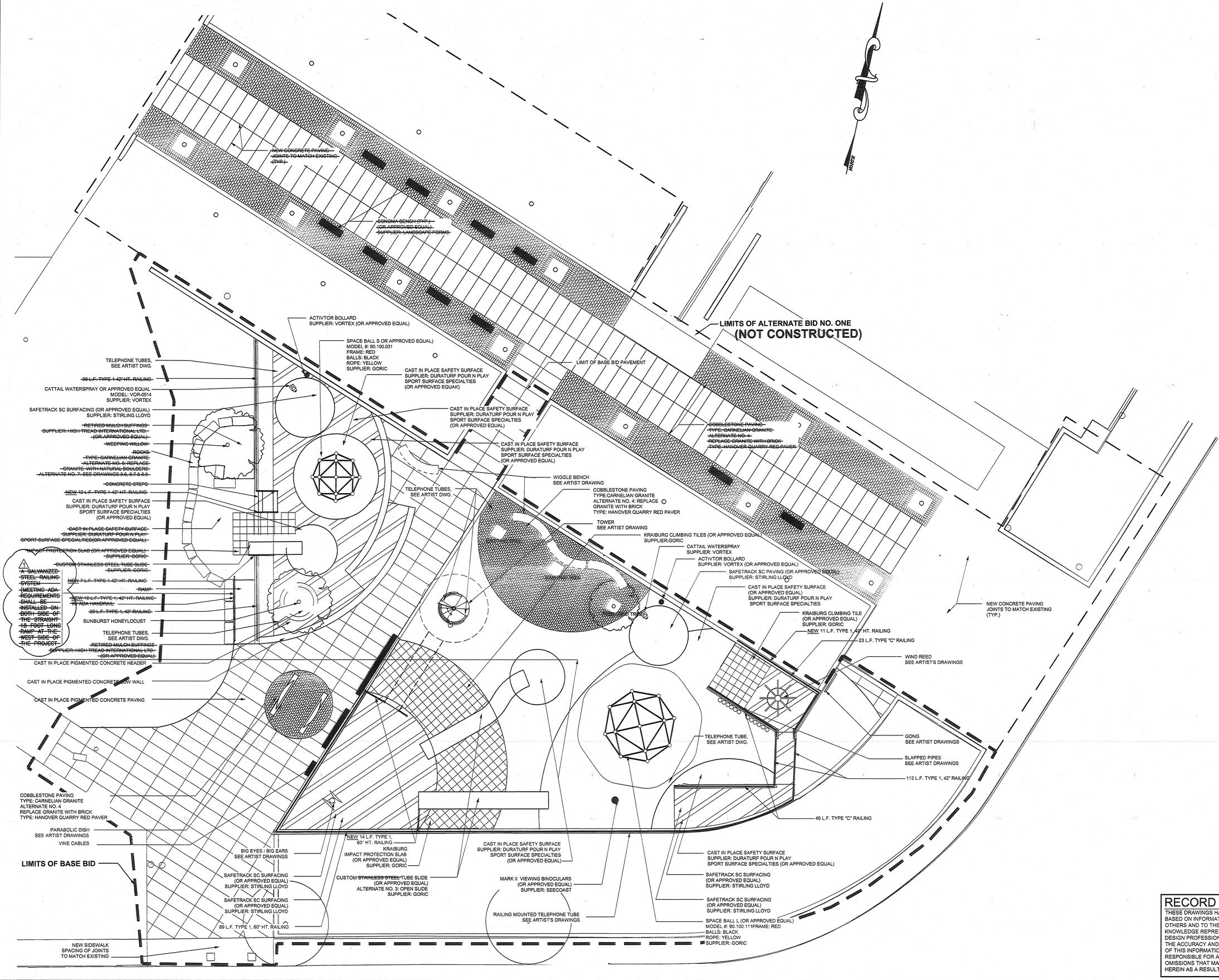
2010-04-19 11:08 JM Bylsma, Inside



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PLAYGROUND DESIGN
Sonic Architecture
P.O. Box 20873
New York, New York, 10009
212-982-1743

ARCHITECT
Barkstrom & Lacroix
50 Chestnut St.
Rochester, New York, 14604
585-262-9914

RINK CONSULTANT
North American Ice
876 Grove Avenue
Burnaby, B.C., Canada
604-291-9980

Rev.	Description	By	Date
2	RECORD DRAWINGS	AAB	4.16.10
1	REVISIONS PER ADDENDUM 2 DATED 5-9-05	SRP	9-1-05

Manhattan Square Park
Phase One Renovations

SITE PLAN

Project No.	7/5/0/04
Proj. Manager	D.A.H
Proj. Designer	K.S./ E.A./ B.S./ M.B.
Drawn By	E.A.
Checked By	K.S.
Scale	1/8" = 1'
Approved	D.A.H.
Date	12/23/04

L 4.0

Sheet 5 of 38

E1 msp

STATE OF NEW YORK
DAVID A. HENRY
061182
LICENSED PROFESSIONAL ENGINEER

I:\2105\06\Cad\D.I.05 Conformed Dwg Set\Electrical dwg set 9-19-05\Record Drawings\L4.0 & L6.0 & U10.0.dwg
2010-04-19 11:34 dlyttleton, Amerada

ORIGINAL SHEET – 30 X 42

⚠1 SPECIFICATION

Coloured Slip Resistant Resin Surfacing

Function:

The prepared substrate shall be coated with a coloured liquid resin binder that incorporates fine aggregates to provide a slip resistant finish. The system shall be seamless when applied and the pigmentation shall be UV resistant to avoid premature fading of the colour.

The system shall have good resistance to wear and shall be capable of being maintained/overcoated in the long-term future without removal of the existing layers.

The system shall be resistant to De-icing salts and spillages of Petrol, Oil, Battery Acid and Anti-Freeze.

Slip resistance will be achieved by rolling the surface to produce a textured finish. The aggregates within the system, combined with the textured finish, shall provide the slip resistant surface.

Technical Performance:

Tensile Adhesion (BS EN 24624:1993)	
Concrete substrate	≥ 1.0MPa
Steel substrate	≥ 2.0MPa
Asphalt substrate	≥ 0.5MPa
Slrid Resistance Value (TRL Pendulum)	60 (minimum)
Wheel Tracking Test HD28/94	Zero Erosion
Low Temperature Flexibility (ASTM C836 at -10°C)	No Visible Cracks
Crack Accommodation (BS 8110 Part 2:1985)	Pass

Substrate Preparation:

Preparation of the substrate should be in accordance with the manufacturers instructions. Surfaces with a high negative texture (such as SMA) should be filled using a rapid cure filler material, which is compatible with the resin surfacing system and suitable for application to a feathered edge. Both materials shall be produced by the same manufacturer.

Application:

APPLICATION SHOULD BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS

The resin material shall be a cold applied resin, contain no isocyanates and should present no risk to other trades or the general public who may be in close proximity to the works.

The system shall be a one part reactive resin system, requiring the addition of a catalyst to create a chemical cure and shall not depend on solvent or water evaporation.

Written confirmation should be received from the manufacturer that the system is suitable for application onto asphalt or concrete that is a minimum of 28 days old.

All components/layers of the system shall have an application temperature range of 0°C to 30°C to allow winter and overnight application/maintenance.

All components of the system shall be unaffected by rain 20 minutes after application at 0°C.

Coverage rates should be a minimum of 1.1kg/m²

Texture depth analysis of the surface should be carried out to ascertain the correct coverage rates taking into accounts all variations in site conditions. The minimum required coverage will increase with surface irregularity.

After application or repair, the system shall be able to receive vehicular traffic after 60 minutes at 0°C to ensure a fast return to service.

Practical Performance:

In order to substantiate durability, the system shall have similar applications in the UK that are available for inspection by the client's representative.

Quality Assurance:

All components of the system shall be supplied by a company that operates a quality system registered to ISO 9001:2000.

All materials must be supplied to site in unopened packaging, with batch numbers marked and corresponding manufacturers certificates of conformity, and must be used within the products shelf life or "use by date."

Site conditions should be regularly monitored to ensure the substrate is above the dew point during application.

Coverage rates and applied coating thickness must be monitored and recorded for each day's production together with material batch numbers, ready for inspection by the Engineer if requested.

System:

The system shall be the 'Safetrack SC' slip resistant colour demarcation system manufactured and distributed by:

Stirling Lloyd Products, Inc.
155 Rockwell Rd., Bldg. A
Newington, CT 06111

Tel.: 860-666-5006
Fax: 860-666-5106

Email: northamerica@stirlinglloyd.com
Website: www.stirlingllovd.com

Safetrack SC Components:	Safetrack SC Coating
	PAR1 Primer (on concrete substrates only)
	MR6 Primer (on steel substrates only)
Substrate Filler:	SL Scratch Coat

156 S.F. 5" DEEP CONCRETE WITH SAFETRACK SC SURFACING
COLOR: SKY BLUE / REF 1-64-255
SUPPLIER: STIRLING LLOYD

LIMITS OF ALTERNATE BID NO. ONE
(NOT CONSTRUCTED)

315 S.F. 4" DEEP CAST IN PLACE SAFETY SURFACE
COLOR: 80 % OF #4 TAN
20% OF #18 GREEN
SUPPLIER: DURATURF POUR N PLAY SPORT SURFACE SPECIALTIES

2 1/2" DEEP CAST IN PLACE SAFETY SURFACE (WIDE STRIPE)
COLOR: 100 % OF #5 LAVENDAR WIDE STRIPE
SUPPLIER: DURATURF POUR N PLAY SPORT SURFACE SPECIALTIES

~~⚠1 140 S.F. FIBAR SURFACE RE-TIRED MULCH BUFFINGS AS MANUFACTURED BY HIGH TREAD INTERNATIONAL LTD. (855 328 7590) OR APPROVED EQUAL. COLOR TO BE DETERMINED BY CLIENT.~~

~~2175 S.F. COBBLESTONE PAVING ALTERNATE NO. FOUR: SUBSTITUTE BRICK FOR COBBLESTONE~~

2 1/2" DEEP CAST IN PLACE SAFETY SURFACE (NARROW STRIPE)
COLOR: 100 % OF #2 BLUE THIN STRIPE
SUPPLIER: DURATURF POUR N PLAY SPORT SURFACE SPECIALTIES

769 S.F. 2 1/2" DEEP CAST IN PLACE SAFETY SURFACE (COLOR VARIES)
SUPPLIER: DURATURF POUR N PLAY SPORT SURFACE SPECIALTIES

~~2884 S.F. NEW GRIFF GROOVED CONCRETE~~

115 S.F. 2 1/2" DEEP CAST IN PLACE SAFETY SURFACE
COLOR: 80 % OF #14 YELLOW
20 % OF #11 GREY
SUPPLIER: DURATURF POUR N PLAY SPORT SURFACE SPECIALTIES

772 S.F.COBBLESTONE PAVING ALTERNATE NO. FOUR: SUBSTITUTE BRICK FOR COBBLESTONE

770 S.F.CLIMBING TILES BY KRAILBERG

~~770 S.F. 2 1/2" DEEP CAST IN PLACE SAFETY SURFACE COLOR: 80 % OF #7 RED 20 % OF #3 BLACK SUPPLIER: DURATURF POUR N PLAY SPORT SURFACE SPECIALTIES~~

~~140 S.F. CLIMBING TILE SUPPLIER: GORIC~~

155 S.F. 5" DEEP CONCRETE WITH SAFETRACK SC SURFACING
COLOR: SUNBURST YELLOW / REF. 1-09-281
SUPPLIER: STIRLING LLOYD

1205 S.F. 2 1/2" DEEP CAST IN PLACE SAFETY SURFACE
COLOR: 45% OF # 2 BLUE
45% OF # 8 LAVENDAR
10% OF #10 GRAY
SUPPLIER: DURATURF POUR N PLAY SPORT SURFACE SPECIALTIES

~~⚠1 40 S.F. FIBAR SURFACE RE-TIRED MULCH BUFFINGS AS MANUFACTURED BY HIGH TREAD INTERNATIONAL LTD. (855 328 7590) OR APPROVED EQUAL. COLOR TO BE DETERMINED BY CLIENT.~~

118 S.F. CLIMBING TILE BY KRAILBERG

65 S.F. PIGMENTED CONCRETE PAVING

4500 S.F. 5" DEEP CAST IN PLACE PIGMENTED CONCRETE PAVING

152 S.F. 2 1/2" DEEP CAST IN PLACE SAFETY SURFACE
COLOR: 50% OF # 7 RED
20% OF # 14 YELLOW
10% OF #10 GRAY
SUPPLIER: DURATURF POUR N PLAY SURFACE SPECIALTIES

442 S.F. SAFETRACK SC SURFACING COLOR VARIES

LIMITS OF BASE BID

202 S.F. COBBLESTONE PAVERS ALTERNATE NO. FOUR: SUBSTITUTE BRICK FOR COBBLESTONE

136 S.F. TURF TILE SUPPLIER: GORIC

140 S.F. TURF TILE SUPPLIER: GORIC

SAFETRACK SC SURFACING (NARROW STRIPE) COLOR: YELLOW GREEN: REF 1-29-144 SUPPLIER: STIRLING LLOYD

785 S.F. SAFETRACK SC SURFACING COLOR VARIES

500 S.F. CLIMBING TILE SUPPLIER: GORIC

133 S.F. 2 1/2" DEEP CAST IN PLACE SAFETY SURFACE
COLOR: 75% OF #18 GREEN
25% #20 BLACK
SUPPLIER: DURATURF POUR N PLAY SPORT SURFACE SPECIALTIES

SAFETRACK SC SURFACING (WIDE STRIPE) COLOR: CAPRI BLUE / REF 1-62-237 SUPPLIER: STIRLING LLOYD

SAFETRACK SC SURFACING (NARROW STRIPE) COLOR: YELLOW GREEN: REF 1-29-144 SUPPLIER: STIRLING LLOYD

SAFETRACK SC SURFACING (WIDE STRIPE) COLOR: CAPRI BLUE / REF 1-62-237 SUPPLIER: STIRLING LLOYD

300 S.F. 2 1/2" DEEP CAST IN PLACE SAFETY SURFACE
COLOR:
SUPPLIER: DURATURF POUR N PLAY SPORT SURFACE SPECIALTIES

670 S.F. 4" DEEP CAST IN PLACE SAFETY SURFACE
COLOR: 45% OF # 2 BLUE
45% OF # 8 LAVENDAR
10% OF #10 GRAY
SUPPLIER: DURATURF POUR N PLAY SPORT SURFACE SPECIALTIES

RECORD DRAWING

THESE DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS AND TO THE BEST OF OUR KNOWLEDGE REPRESENT CONDITIONS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND / OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED HEREIN AS A RESULT.

NOTE:⚠

ADD ADDENDUM 2
(PROVIDE EXTRA SURFACE MATERIALS) TO INCLUDE PROVIDING 10% EXTRA OF THE FOLLOWING ITEMS TO THE CITY FOR FUTURE USE:
COBBLESTONE PAVERS,
SAFETRACK SC (EACH COLOR)
POURED IN PLACE SAFETY SURFACING (EACH COLOR)
CLIMBING TILES WITH BUMPERS AND CLIMBING TILES WITHOUT BUMPERS

ENGINEER & LANDSCAPE ARCHITECT
Dufresne-Henry
151 St. Paul St.
Rochester, New York, 14604
585-454-2080

LANDSCAPE ARCHITECT
Ken Smith Landscape Architect
79 Chambers St.
New York, New York, 10007
212-791-3585

PLAYGROUND DESIGN
Sonic Architecture
P.O. Box 20873
New York, New York, 10009
212-982-1743

ARCHITECT
Barkstrom & Lacroix
50 Chestnut St.
Rochester, New York, 14604
585-262-9914

RINK CONSULTANT
North American Ice
876 Grove Avenue
Burnaby, B.C., Canada
604-291-9880

No.	Description	Date	By
1	PER ADDENDUM 2	9-1-05	SRP
2	RECORD DRAWINGS	5-9-05	AAB

Manhattan Stearns Park
Phase One Renovations

SURFACING PLAN

Project No.	7539/26
Proj. Manager	D.A.H
Proj. Designer	K.S./E.A./R.B./M.B.
Drawn By	E.A.
Checked By	K.S.
Scale	1/8" = 1'
Approved	D.A.H.
Date	12/21/04

L 4.1

Sheet 6 of 38

F:\ msp

SEE UPDATES TO
L 4.0 AND L 4.1

LIMITS OF ALTERNATE BID NO. ONE

EXPANSION JOINTS (TYP.)

LIMITS OF BASE BID

X:1410240.58
Y:1150577.40

CO ORDINATES BASED ON NEW YORK STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM 1983 (NAD 83)

LOCATION POINT

NOTE:
ALL ELEMENT LOCATIONS MUST BE STAKED IN THE FIELD AND APPROVED BY THE RPR BEFORE INSTALLATION.

RECORD DRAWING

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Burnaby, B.C., Canada
604-291-8890

No.	Description	Date
1	RECORD DRAWINGS	3/30/2010
A&B		4.16.10

Manhattan Square Park
Phase One Removefrom

LAYOUT PLAN

STATE OF NEW YORK
DEPARTMENT OF STATE
LICENSED
Licensed Professional Engineer

Project No.	7630034
Proj. Manager	DAH
Proj. Designer	KS/EA/SB/MB
Drawn By	EA
Checked By	KS
Scale	AS NOTED
Approved	DAH
Date	03/30/10

L 5.0

Sheet 7 of 38

E1 msp

SEE UPDATES TO
L 4.0 AND L 4.1

PROPOSED GRADES TO MATCH EXISTING

LIMITS OF ALTERNATE BID NO. ONE
(NOT CONSTRUCTED)

LIMITS OF BASE BID

RESUMED GRADE

GRADE BREAK

LOW CLEARANCE 536.85 UNDER BRIDGE

CONTINUOUS +2%

SMH RIM: 524.376

SMH RIM: 523.61

SMH RIM: 521.869

BENCH

15 @ 8.33" = 10'-0" SLOPE

LEGEND

- EXISTING CONTOUR
- + 524.42 EXISTING SPOT ELEVATION
- + 524.43 PROPOSED SPOT ELEVATION
- APPROXIMATE DRAINAGE PATH
- + 524.30 PROPOSED AREA DRAIN RIM ELEVATION

RECORD DRAWING

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876 Grove Avenue
Burnaby, B.C., Canada
604-291-9980

Rev.	Description	By	Date
1	RECORD DRAWINGS	AAB	4.16.10

Manhattan Square Park
Phase One Renovations

GRADING PLAN

NEW YORK STATE OF LANDSCAPE ARCHITECTURE
LICENSED PROFESSIONAL
NO. 001263

Project No.	000000
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	1/8" = 1'
Approved	D.A.H.
Date	12/23/04

L 6.0

Sheet 8 of 38

E1 msp

U:\Z105100\05\Cad\A\L1.0\5 Conformed Dwg Set\Electrical dwg set 9--19--05\Record Drawings\L4.0 & L6.0 & U10.0.dwg
2010-04-19 11:34 AM By:Sutton, Amanda

ORGINAL SHEET – 30 X 42

Manhattan Square Park
Planting Schedule

Quantity	Scientific Name	Common Name	Size	Spacing	Comments
	Base Bid				
32	Aristolochia durior	Dutchman's Pipe	1 Gallon Cont.	12" On Center	
1	Fraxinus pennsylvanica lanceolata	Green Ash	3 1/2" - 4" Cal.	As Shown	
1	Gleditsia triacanthos inermis "Sunburst"	Sunburst Honeylocust	3 1/2 - 4" Cal.	A.S.	To Match Existing
119	Hosta fortunei "Francee"	Francee Hosta	1 Gallon Cont.	30" O.C	
115	Hydrangea a. "Annabelle"	Annabelle Hydrangea	18 - 24"	30" O.C	
94	Hydrangea quercifolia	Oakleaf Hydrangea	18 - 24"	30" O.C	
62	Ilex crenata	Japanese Holly	18 - 24"	30" O.C	
40	Juniperus c."Irozam"	Ironzam Juniper	3 Gallon Cont.	30" O.C	
100	Pachysandra terminalis	Pachysandra	R.C. flat of 50		
1	Salix alba 'Tristis'	Golden Weeping Willow	3 1/2 - 4" Cal.	A.S.	Specimen
30	Spiraea x.b. "Goldflame"	Goldflame Spiraea	5 Gallon Cont.	30" O.C	
105	Taxus desiformis	Dense Spreading Yew	18 - 24"	30" O.C	
95	Viburnum carlesii	Korean Spice Viburnum	18 - 24"	30" O.C	
	Alternate Plantings				
15	Hydrangea a. "Annabelle"	Annabelle Hydrangea	18 - 24"		
30	Hydrangea quercifolia	Oakleaf Hydrangea	18 - 24"		
26	Ilex crenata	Japanese Holly	18 - 24"		
13	Pachysandra terminalis	Pachysandra	R.C. flat of 50		
22	Tilia Tomentosa "Sterling"	Sterling Silver Linden	3 1/2 - 4" Cal.		
13	Viburnum carlesii	Korean Spice Viburnum	18 - 24"		

RECORD DRAWING

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Tilia tomentosa "Sterling Silver" (21)
Silver Linden
3 1/2" - 4" Caliper

Hydrangea quercifolia (20)
Oakleaf hydrangea
18" - 24" Installation Height
30" o.c. typical

Viburnum carlesii (19)
Koreanspice Viburnum
18" - 24" Installation Height
30" o.c. typical

Hydrangea arborescens 'Annabelle' (31)
Smooth Hydrangea
18" - 24" Installation Height
30" o.c. typical

Ilex crenata (18)
Japanese Holly
18" - 24" Installation Height
30" o.c. typical

Salix alba 'Tristis'
Golden Weeping Willow
3 1/2" - 4" Caliper
Specimen Quality

DELETE – SEE SHEET L7.1

Gleditsia triacanthos inermis "Sunburst"
Sunburst Honeylocust
2 1/2" - 3" Caliper

Juniperus conferta 'Irozam" (40)
Irozam Juniper
3 Gal.
30" o.c. typical

Spiraea x.b." Goldflame" (29)
Gold Flame Spiraea
5 Gal.
30" o.c. typical

Aristolochia macrophylla (17)
Dutchman's Pipe
1 Gal.
12" o.c. typical

Fraxinus pennsylvanica lanceolata
Green Ash
2 1/2" - 3" Caliper
To match existing trees

Aristolochia macrophylla (11)
Dutchman's Pipe
1 Gal.
12" o.c. typical

Aristolochia macrophylla (4)
Dutchman's Pipe
1 Gal.
12" o.c. typical

Hydrangea quercifolia (47)
Oakleaf hydrangea
18" - 24" Installation Height
30" o.c. typical

Ilex crenata (15)
Japanese Holly
18" - 24" Installation Height
30" o.c. typical

Taxus x media 'Densiformis' (45)
English-Japanese Yew
18" - 24" Installation Height
30" o.c. typical

Viburnum carlesii (24)
Koreanspice Viburnum
18" - 24" Installation Height
30" o.c. typical

Hydrangea arborescens 'Annabelle' (28)
Smooth Hydrangea
18" - 24" Installation Height
30" o.c. typical

Pachysandra terminalis
Pachysandra
Flats
6" o.c. typical

LIMITS OF BASE BID

LIMITS OF ALTERNATE BID NO. ONE
(NOT CONSTRUCTED)

Hydrangea quercifolia (30)
Oakleaf hydrangea
18" - 24" Installation Height
30" o.c. typical

Viburnum carlesii (13)
Koreanspice Viburnum
18" - 24" Installation Height
30" o.c. typical

Hydrangea arborescens 'Annabelle' (15)
Smooth Hydrangea
18" - 24" Installation Height
30" o.c. typical

Ilex crenata (26)
Japanese Holly
18" - 24" Installation Height
30" o.c. typical

Pachysandra terminalis (640)
Pachysandra
Flats
6" o.c. typical

Ilex crenata (30)
Japanese Holly
18" - 24" Installation Height
30" o.c. typical

Hydrangea arborescens 'Annabelle' (35)
Smooth Hydrangea
18" - 24" Installation Height
30" o.c. typical

Taxus x media 'Densiformis' (61)
English-Japanese Yew
18" - 24" Installation Height
30" o.c. typical

Viburnum carlesii (16)
Koreanspice Viburnum
18" - 24" Installation Height
30" o.c. typical

Hydrangea arborescens 'Annabelle' (23)
Smooth Hydrangea
18" - 24" Installation Height
30" o.c. typical

Hydrangea quercifolia (31)
Oakleaf hydrangea
18" - 24" Installation Height
30" o.c. typical

Viburnum carlesii (39)
Koreanspice Viburnum
18" - 24" Installation Height
30" o.c. typical

Pachysandra terminalis
Pachysandra
Flats
6" o.c. typical

Platanus x acerifolia (to match existing Street Trees)
London Planetree
3 1/2" - 4" Caliper

Hosta 'Francee' (119)
Francee Hosta
1 gal.
30" o.c. typical

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585-262-9914

RINK CONSULTANT
North American Ice
876 Grove Avenue
Burnaby, B.C., Canada
604-291-9980

No.	Description	Date	By
1	PER ADDENDUM 2 DATED 5-9-05	4.16.10	AAB
2	RECORD DRAWINGS	9-1-05	SRP

Manhattan Square Park
Phase One Renovations

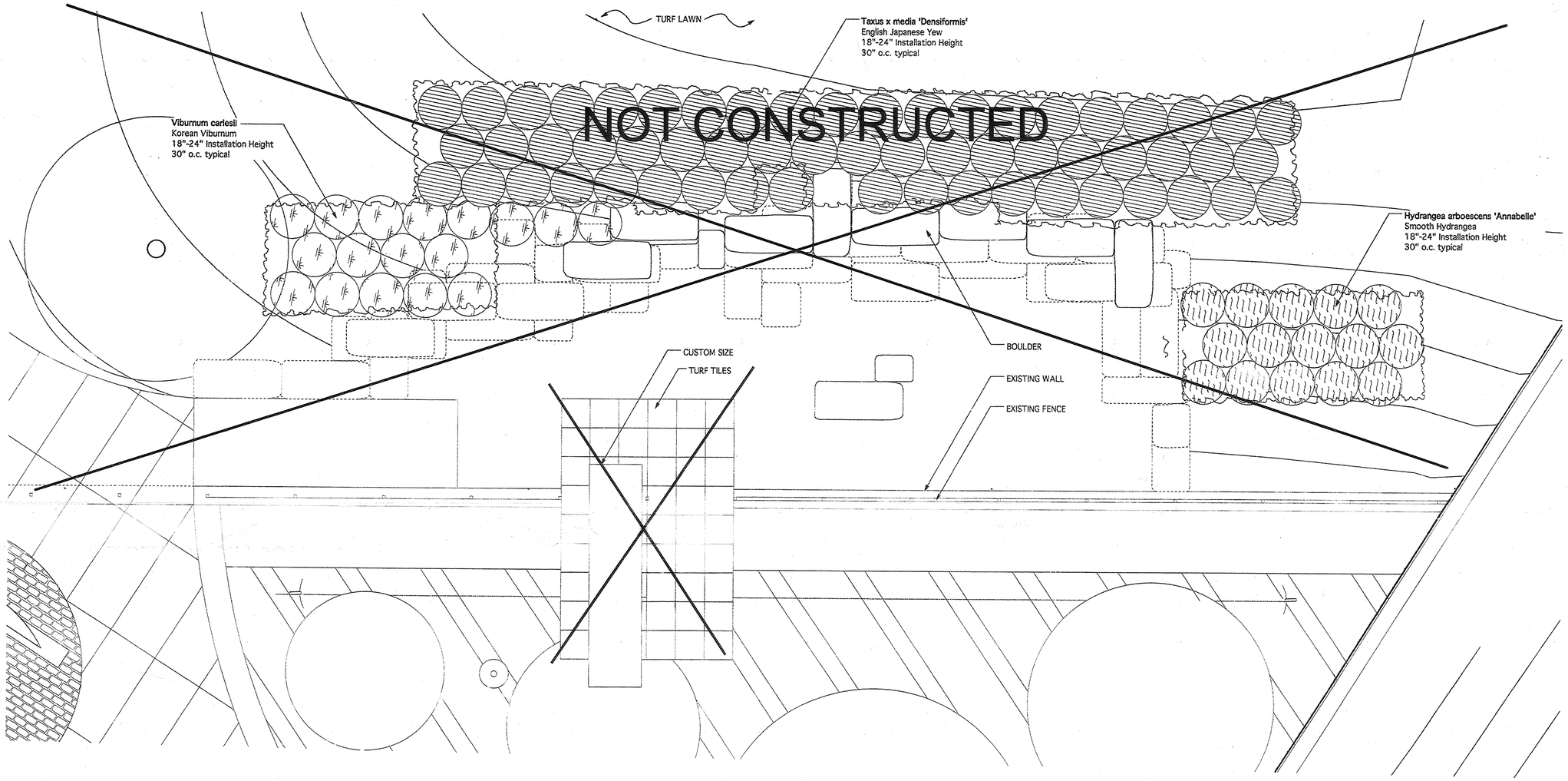
PLANTING PLAN

Project No.	7530084
Proj. Manager	D.A.H.
Proj. Designer	L.B.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	1/8" = 1'
Approved	D.A.H.
Date	12/23/04

L 7.0

Sheet 9 of 38

E1 msp



1 PLANTING PLAN BY THE STONE WALL AT CHILDREN'S PLAYGROUND
Scale: 3/8" = 1' - 0"

RECORD DRAWING

THESE DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS AND TO THE BEST OF OUR KNOWLEDGE REPRESENT CONDITIONS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND / OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED HEREIN AS A RESULT.

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Rochester, New York, 14604
585-454-2080

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212-791-3595

PLAYGROUND DESIGN
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P.O. Box 20873
New York, New York, 10009
212-982-1743

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585-262-9914

RINK CONSULTANT
North American Ice
585-262-9914

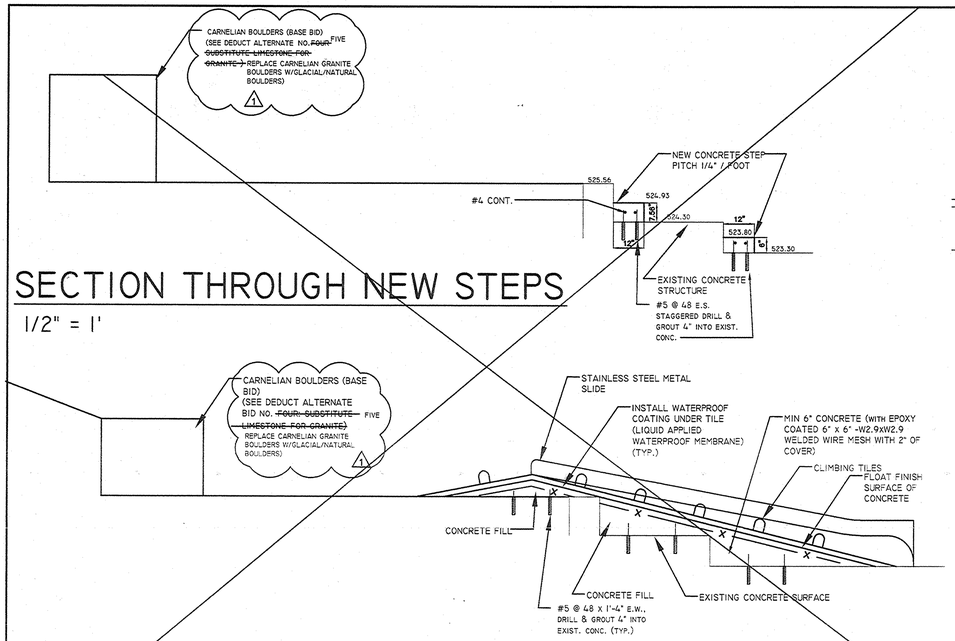
Rev.	Description	By	Date
1	RECORD DRAWINGS	AAB	4.16.10
	ADDENDA SET 1		04.26.05

Manhattan Square Park

PLANTING PLAN BY THE STONE BOULDER WALL

Project No.	7509024
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/23/04

L 7.1

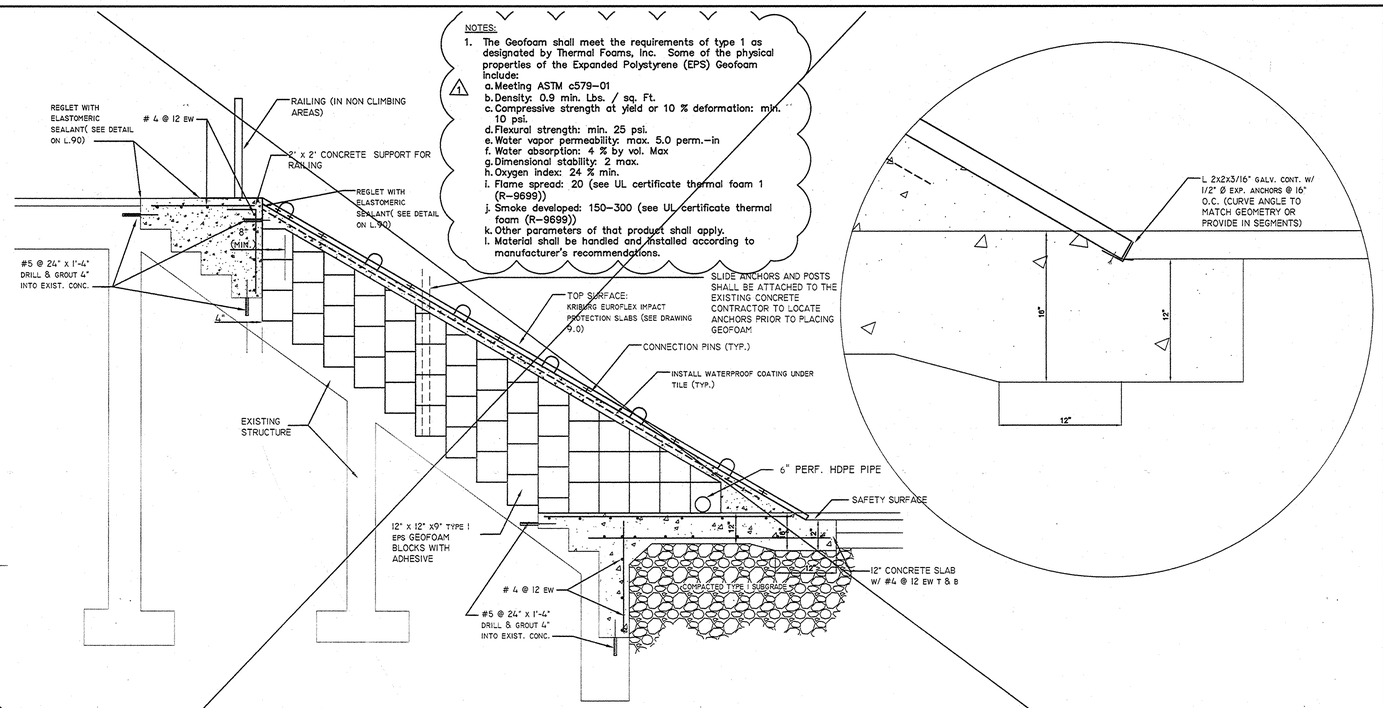


SECTION THROUGH NEW STEPS

1/2" = 1'

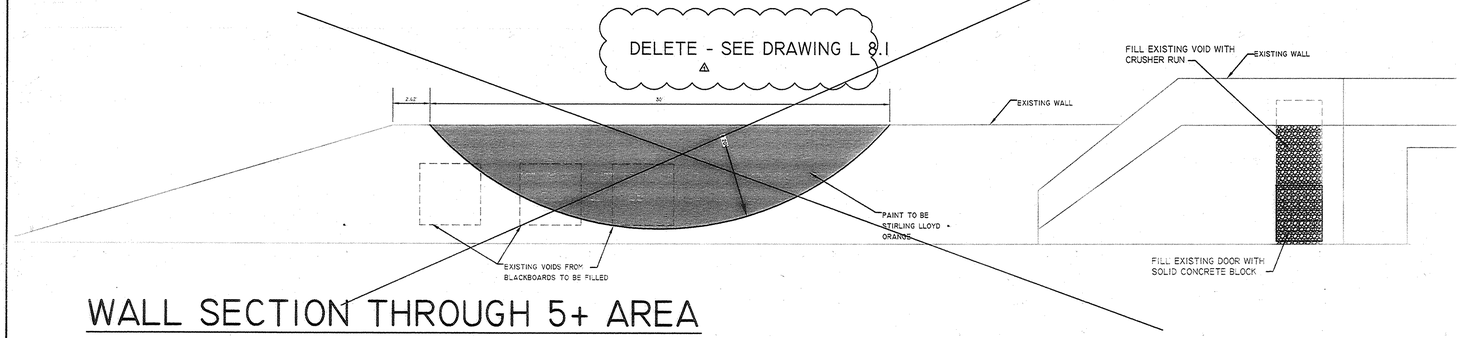
SECTION THROUGH 2 - 5 YR OLD AREA SLIDE

1/2" = 1'



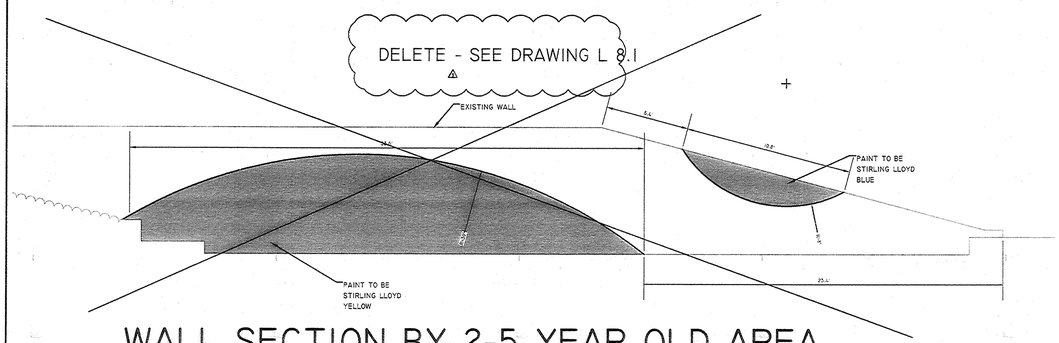
SECTION THROUGH CLIMBING SURFACE

1/2" = 1'



WALL SECTION THROUGH 5+ AREA

1/4" = 1'



WALL SECTION BY 2-5 YEAR OLD AREA

1/4" = 1'

ENGINEER & LANDSCAPE ARCHITECT
Dufresne-Henry
151 St. Paul St.
Rochester, New York, 14604
585-454-2080

LANDSCAPE ARCHITECT
Ken Smith Landscape Architect
79 Chambers St.
New York, New York, 10007
212-791-3595

PLAYGROUND DESIGN
Sonic Architecture
P.O. Box 20873
New York, New York, 10009
212-982-1743

ARCHITECT
Barkstrom & Lacroix
50 Chestnut St.
Rochester, New York, 14604
585-262-9914

RINK CONSULTANT
North American Ice
876 Grove Avenue
Burnaby, B.C., Canada
604-291-9980

Rev.	Description	By	Date
1	PER ADDENDUM 2 DATED 5/9/05	SRP	9/1/05
2	RECORD DRAWINGS	AAB	4.16.10

Manhattan Square Park
Phase One Renovations

SECTIONS

Project No.	7530024
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/23/04

RECORD DRAWING

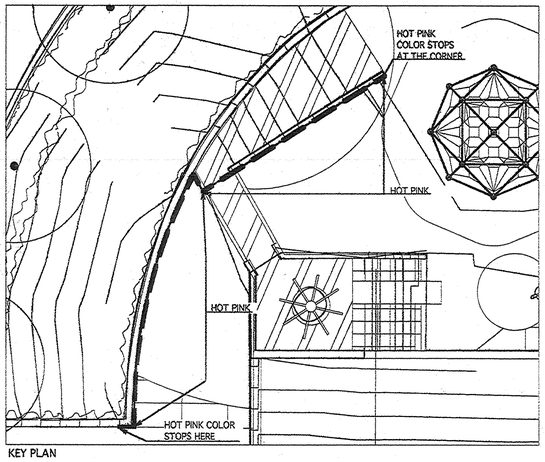
THESE DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS AND TO THE BEST OF OUR KNOWLEDGE REPRESENT CONDITIONS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND / OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED HEREIN AS A RESULT.

L 8.0

Sheet 11 of 38

E1 msp

I:\2105\0000\Cad\L8.0_05 Conformed Dwg Set\Electrical dwg set 9-19-05\Record Drawings\L 8.0 (SECTIONS).dwg
2010-04-19 11:38 AM ByBalton, Amanda
ORIGINAL SHEET - 30 X 42



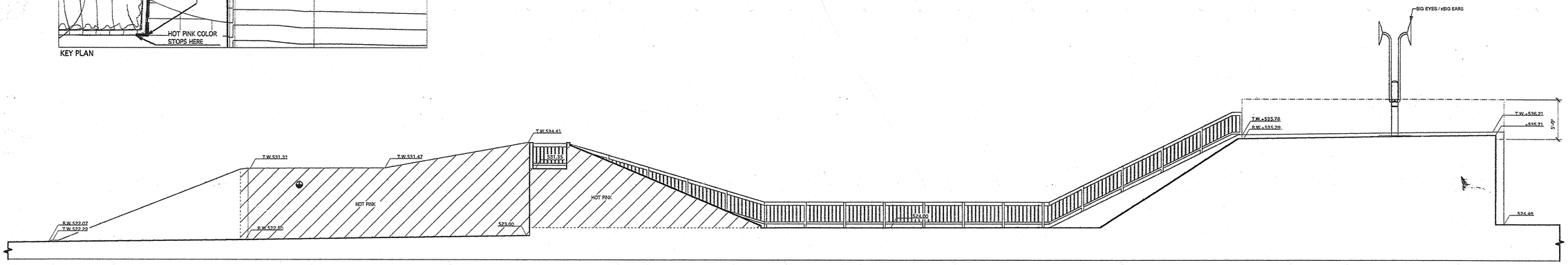
KEY PLAN

NOTE:

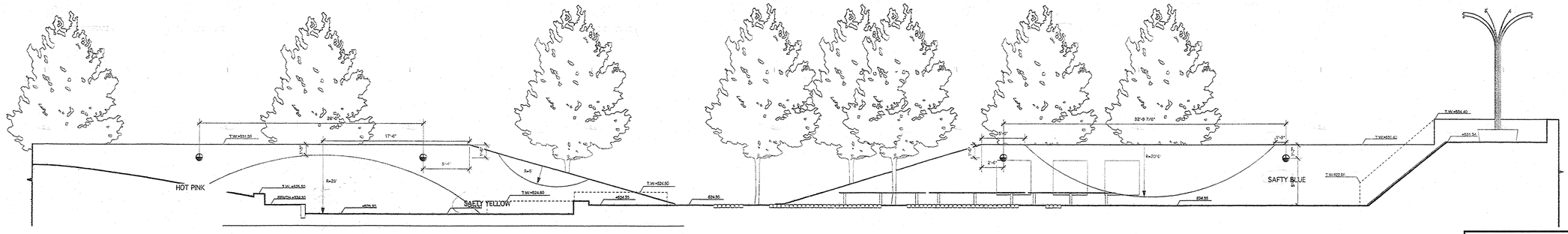
1) CONTRACTOR TO LAYOUT GRAPHIC DESIGNS AND LIGHT LOCATIONS ON WALL WITH NON PERMANENT MARKINGS FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.

2) CONTRACTOR TO SUBMIT SHOP DRAWINGS OF COLORS AND LIGHTS FOR APPROVAL BY LANDSCAPE ARCHITECT

3) CONTRACTOR TO MOCK-UP COLORS FOR APPROVAL BY LANDSCAPE ARCHITECT



1 GRAPHIC OF THE SOUTH WALL
SCALE: 1'=1/4"



2 GRAPHIC OF THE NORTH WALL
SCALE: 1'=1/4"

RECORD DRAWING

THESE DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS AND TO THE BEST OF OUR KNOWLEDGE REPRESENT CONDITIONS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND / OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED HEREIN AS A RESULT.

ENGINEER & LANDSCAPE ARCHITECT
Dufresne-Henry
151 St. Paul St.
Rochester, New York, 14604
585-454-2080

LANDSCAPE ARCHITECT
Ken Smith Landscape Art
79 Chambers St.
New York, New York, 10007
212-791-3595

PLAYGROUND DESIGN
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212-982-1743

ARCHITECT
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585-262-9914

RINK CONSULTANT
North American Ice
876 Grove Avenue
Burnaby, B.C., Canada
585-262-9914

Rev.	Description	By	Date
1	RECORD DRAWINGS ADDENDA SET 1 VERIFIED BY CONTRACTOR	AAB	4.16.10 04.26.05

Manhattan Square Park

WALL GRAPHIC LAYOUT

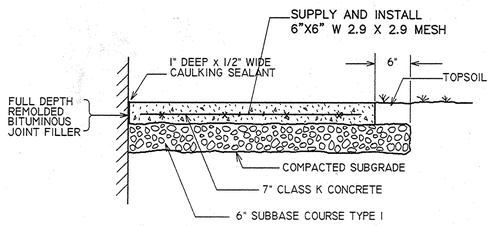
SPRINGFIELD

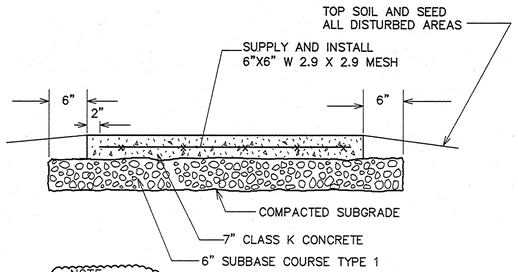
STATE OF NEW YORK

Project No.	6860084
Proj. Manager	D.A.H
Proj. Designer	D.A.H
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	3/23/2004

L 8.1

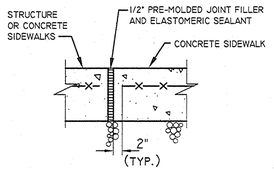
Sheet 12 of 38
E1 MSP



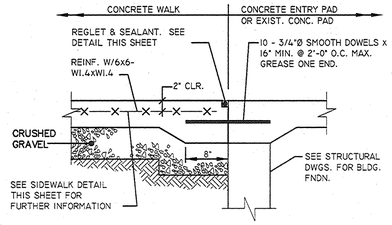


NOTE:
SUBBASE TYPE I SHALL BE CRUSHED STONE. SUBMIT STONE GRADATION FOR REVIEW

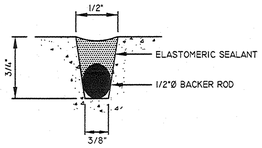
CONCRETE WALK DETAILS
NOT TO SCALE



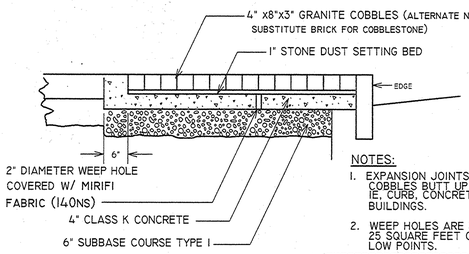
TYPICAL EXPANSION JOINT DETAIL
NOT TO SCALE



CONCRETE WALK DOWELING DETAIL
SCALE: 1" = 1'-0"

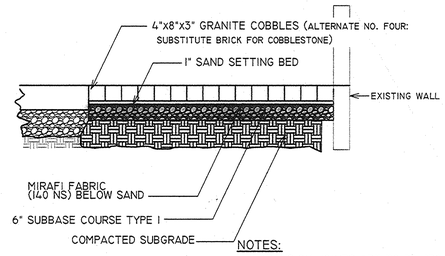


REGLET DETAIL
NOT TO SCALE



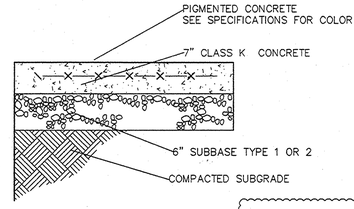
NOTES:
1. EXPANSION JOINTS ARE TO BE PROVIDED WHERE COBBLES BUTT UP AGAINST OTHER PAVED SURFACES IE. CURB, CONCRETE, GUTTER, WALLS AND BUILDINGS.
2. WEEP HOLES ARE TO BE INSTALLED FOR EVERY 25 SQUARE FEET OF COBBLE AREA AND AT ALL LOW POINTS.
3. SUBBASE TYPE I SHALL BE CRUSHED STONE. SUBMIT STONE GRADATION FOR REVIEW

COBBLE AREA UNDER PARABOLIC BENCH
NOT TO SCALE



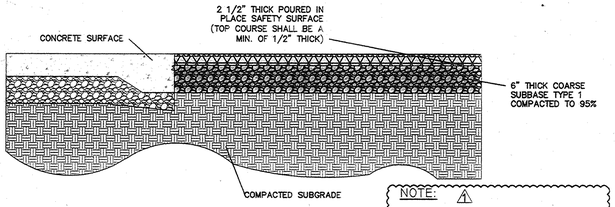
NOTES:
1. EXPANSION JOINTS ARE TO BE PROVIDED WHERE COBBLES BUTT UP AGAINST OTHER PAVED SURFACES IE. CURB, CONCRETE, GUTTER, WALLS AND BUILDINGS.
2. SUBBASE TYPE I SHALL BE CRUSHED STONE. SUBMIT STONE GRADATION FOR REVIEW

COBBLE AREA UNDER TREES
NOT TO SCALE



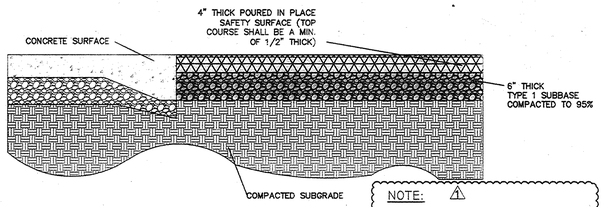
NOTE:
1. Contractor shall supply and install four (4) six foot by six foot pads of concrete in the colors noted below as part of the shop drawing approval process. The colors shall be: winter beige and coachilla sand (by L.M. Scofield 1-800-800-9900, or approved equal) and two additional colors chosen by the owner. The final color will be chosen by the project manager.

PIGMENTED CONCRETE DETAIL
NOT TO SCALE



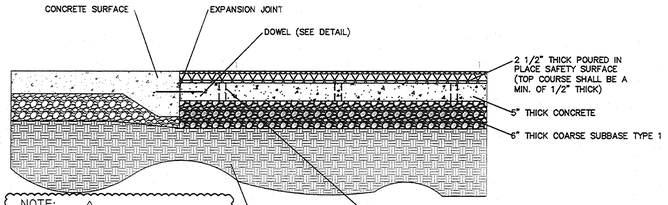
NOTE:
SUBBASE TYPE I SHALL BE CRUSHED STONE. SUBMIT STONE GRADATION FOR REVIEW

BASE BID 2 1/2" SAFETY SURFACE ON COMPACTED STONE DETAIL
NOT TO SCALE



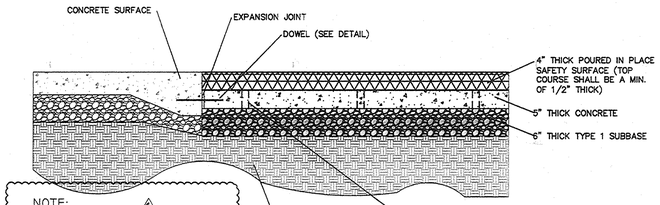
NOTE:
SUBBASE TYPE I SHALL BE CRUSHED STONE. SUBMIT STONE GRADATION FOR REVIEW

BASE BID 4" SAFETY SURFACE ON COMPACTED STONE DETAIL
NOT TO SCALE



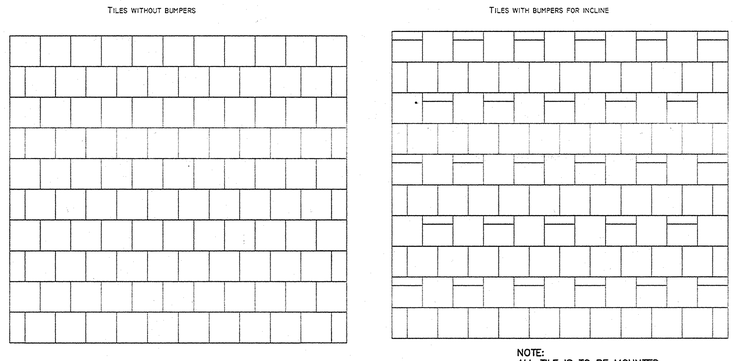
NOTE:
SUBBASE TYPE I SHALL BE CRUSHED STONE. SUBMIT STONE GRADATION FOR REVIEW

ALTENATE NO. 7: 2 1/2" SAFETY SURFACE ON CONCRETE DETAIL
NOT TO SCALE



NOTE:
SUBBASE TYPE I SHALL BE CRUSHED STONE. SUBMIT STONE GRADATION FOR REVIEW

ALTENATE NO. 7: 4" SAFETY SURFACE ON CONCRETE DETAIL
NOT TO SCALE



NOTE:
ALL TILE IS TO BE MOUNTED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. THE INSTALLATION SHALL INCLUDE ALL REQUIRED ADHESIVES, CONNECTING PINS, ANCHORING BOLTS, EDGE TREATMENTS AND/OR ANY OTHER REQUIRED MATERIALS. SEE DRAWING L4.0 FOR LOCATIONS.

SAFETY SURFACE / CLIMBING TILE DETAIL
NOT TO SCALE

RECORD DRAWING
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ENGINEER & LANDSCAPE ARCHITECT
Dufresne-Henry
151 St. Paul St.
Rochester, New York, 14604
585-454-2080

LANDSCAPE ARCHITECT
Ken Smith Landscape Architect
79 Chambers St.
New York, New York, 10007
212-791-3595

PLAYGROUND DESIGN
Sonic Architecture
P.O. Box 20873
New York, New York, 10009
212-982-1743

ARCHITECT
Barkstrom & Lacroix
50 Chestnut St.
Rochester, New York, 14604
585-262-9914

RINK CONSULTANT
North American Ice
876 Grove Avenue
Burnaby, B.C., Canada
604-291-9980

Rev.	Description	By	Date
1	PER ADDENEDUM 2 DATED 5/9/05	SRP	9/1/05
2	RECORD DRAWINGS	AAB	4.16.10

Manhattan Square Park
Phase One Rennovations

DETAILS

Project No.	7530024
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/23/04

L 9.0

Sheet 13 of 38

E1 msp

STATE OF NEW YORK
DAVID A. HENRY
090128
Licensed Professional Engineer

I:\7530\03\00\Cad\9.0 L9.0 Conformed Dwg Set\Electrical dwg set 9-19-05\Record Drawings\L 9.0.dwg
2010-04-19 11:38 AM By:Burton, Amanda

ORGINAL SHEET - 30 X 42

LAYOUT:

- 4" CLEAR MARGIN ALL AROUND
- PROJECT TITLE – FLUSH TO TOP AND LEFT MARGINS
- MAYOR'S SIGNATURE – FLUSH TO BOTTOM AND RIGHT MARGINS
- CITY LOGO – TOP TO ALIGN WITH CITY OF ROCHESTER
- 2010 LOGO – FLUSH TO RIGHT MARGIN
- 2010 LOGO W/STRIPE – 322" HIGH
- IN PROGRESS – FLUSH TO BOTTOM MARGIN

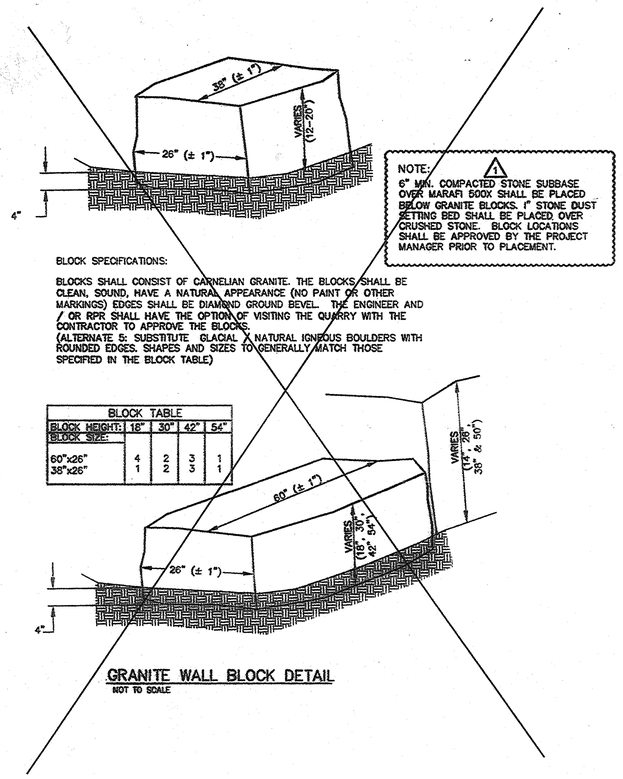
LETTERING:

- PROJECT TITLE: HELVETICA BLACK CONDENSED 4" LETTERS, 19" LINE SPACING
- CONTRACTOR: HELVETICA BOLD CONDENSED ITALIC 2" LETTERS, 1" LINE SPACING
- FOR INFORMATION CALL: HELVETICA BOLD CONDENSED 2" LETTERS, 1" LINE SPACING
- CITY OF ROCHESTER: HELVETICA BOLD CONDENSED 1" LETTERS
- MAYOR'S SIGNATURE: HELVETICA BOLD CONDENSED ITALIC 1" LETTERS

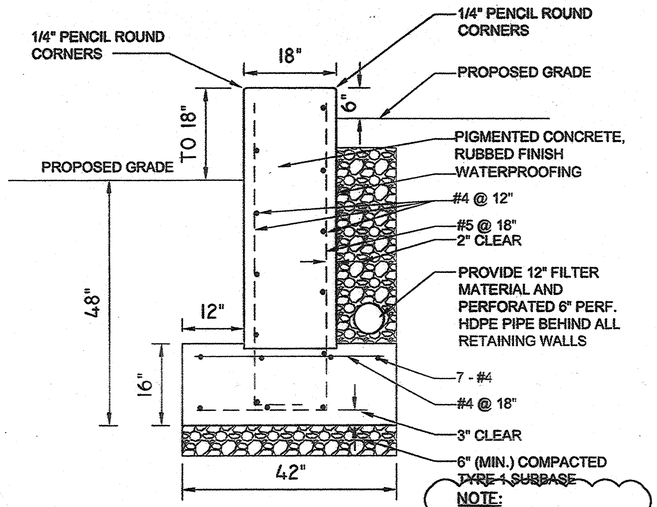
NOTES:

1. PRIOR TO SIGN FABRICATION, CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM CITY'S GRAPHIC DESIGN SECTION, (585) 428-6068, FOR SIGN'S ARTWORK AND LAYOUT
2. A COPY OF THE WRITTEN APPROVAL MUST BE PROVIDED TO PROJECT MANAGER PRIOR TO ANY SIGN INSTALLATION
3. CAMERA READY ARTWORK WILL BE SUPPLIED BY CITY'S GRAPHIC DESIGN SECTION FOR CITY LOGO AND 2010 LOGO
4. BOARD TO BE 6'-0"x 4'-0"x 1" PLYWOOD PAINTED WITH 2 COATS WHITE EXTERIOR ENAMEL PAINT
5. BOTTOM OF SIGN BOARD IS TO BE A MINIMUM OF 5' ABOVE GROUND
6. SIGN CAN BE REDUCED PROPORTIONALLY TO A 3'-0" x 2'-0" SIGN AS REQUIRED IN CONTRACT DOCUMENTS

PROJECT SIGN
NOT TO SCALE



GRANITE WALL BLOCK DETAIL
NOT TO SCALE



CONCRETE RETAINING WALL DETAIL
1" = 1'

RECORD DRAWING

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PLAYGROUND DESIGN
Sonic Architecture
P.O. Box 20023
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ARCHITECT
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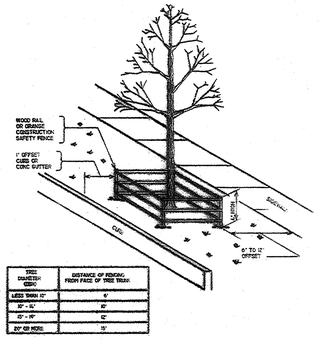
Rochester, New York, 14604
585-262-6014

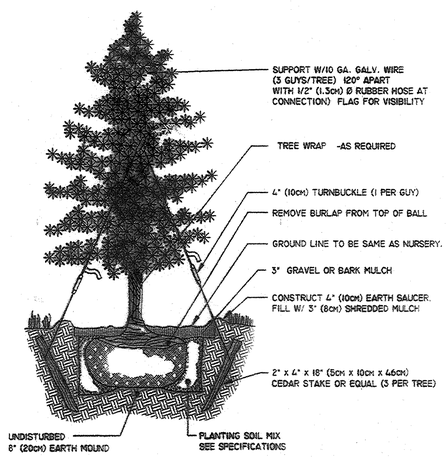
RINK CONSULTANT
North American Ice
876 Grove Avenue
Sumsby, B.C., Canada
604-291-9980

No.	Description	Date	By
1.	PER ADDENDUM 2 DATED 5/9/05	9/1/05	SRP
2.	RECORD DRAWINGS	4.16.10	AAB

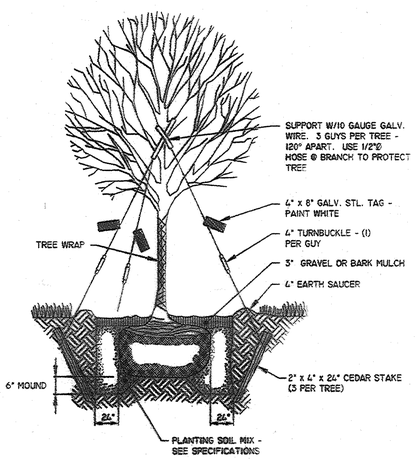


NOTE:
1. ALL TREES WITHIN THE PROJECT LIMITS THAT ARE TO REMAIN ARE TO RECEIVE TREE TREATMENT.
2. DO NOT ALLOW CONSTRUCTION EQUIPMENT PARKING UNDER TREE CANOPY.

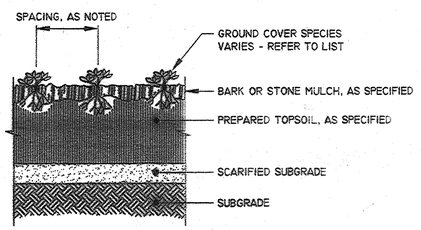
TREE PROTECTION ZONE FENCING
NOT TO SCALE



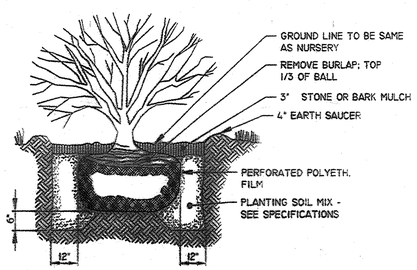
CONIFEROUS TREE PLANTING
NOT TO SCALE



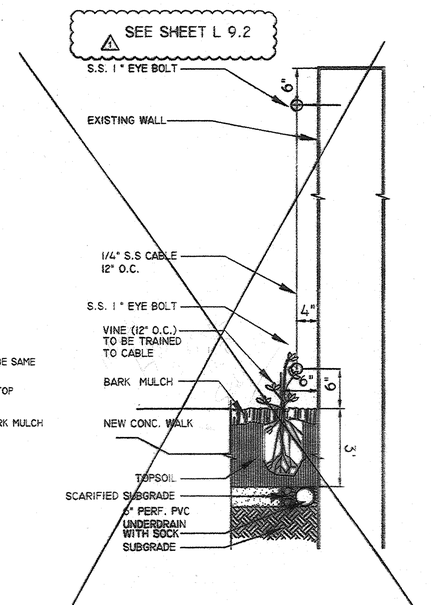
TYP. TREE PLANTING DETAIL
NOT TO SCALE



GROUND COVER PLANTING
NOT TO SCALE



TYP. SHRUB PLANTING DETAIL
NOT TO SCALE



VINE PLANTING DETAIL
NOT TO SCALE

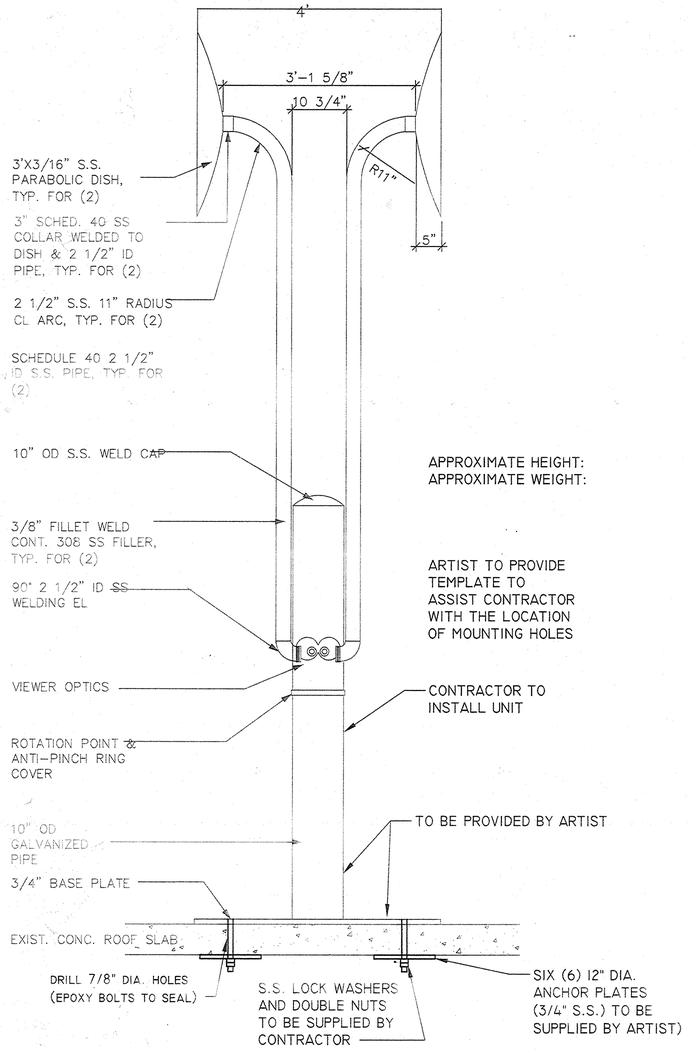
Manhattan Square Park
Phase One Renovations

SITE DETAILS

Project No.	7030028
Proj. Manager	DAH
Proj. Designer	DAH
Drawn By	GAC
Checked By	DAH
Date	7/2005

L 9.1

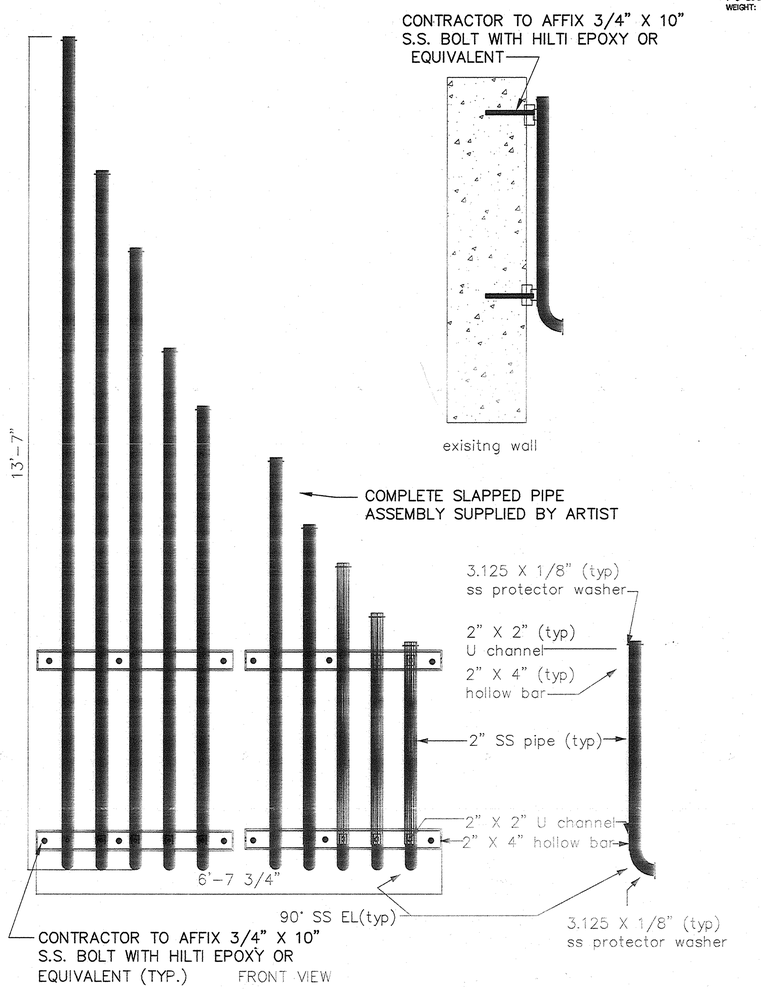
Sheet 14 of 38
msp



Front Elevation: Big Eyes, Big Ears

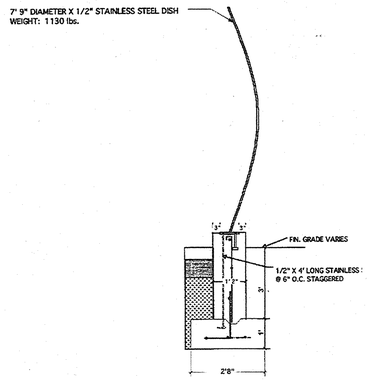
BIG EYES - BIG EARS MOUNTING DETAIL

1" = 1'-0"



SLAPPED PIPES MOUNTING DETAIL

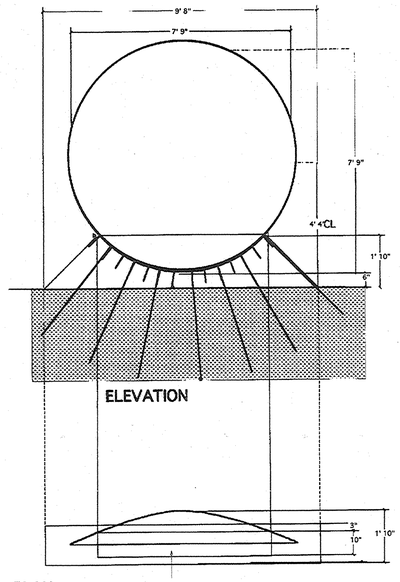
N.T.S.



SADDLE PLATE ELEVATION

Parabolic Bench
Two 7' 9" diameter stainless steel parabolic dishes mounted vertically with concave sides facing parallel and 8' apart. The dishes are held upright by a saddle armature which is tied into a stainless steel support system embedded in concrete to a depth of 4'. All exterior concrete edges have a 1" X 45° chamfer.

Parabolic Bench Materials
concrete
#4rebar
#6 rebar
1/2" stainless steel armature rods
stainless steel for armatures
stainless steel (2) 7'9" X 1/2" stainless steel parabolic dishes (weight: 1130 lb per parabolic dish)

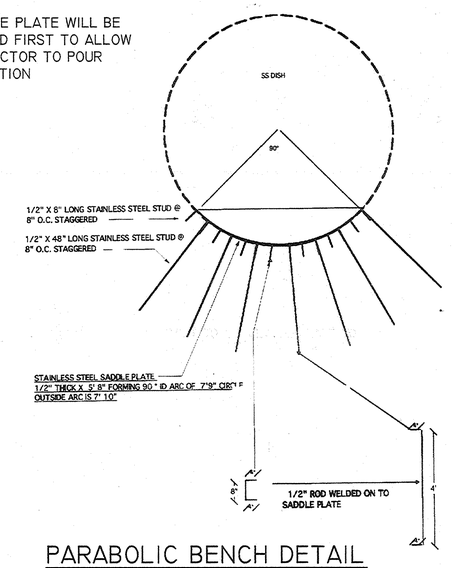


PLAN

10" WIDE X 1/2" THICK ARMATURE PLATE

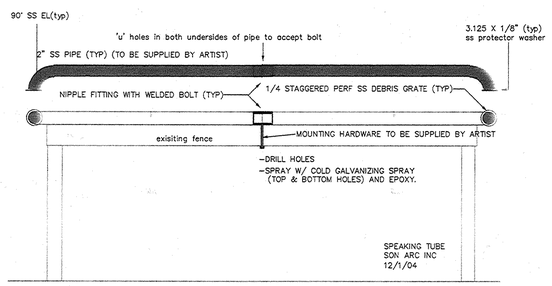
- ARTIST TO PROVIDE SADDLE PLATE AND PARABOLIC DISH

- SADDLE PLATE WILL BE SUPPLIED FIRST TO ALLOW CONTRACTOR TO POUR FOUNDATION



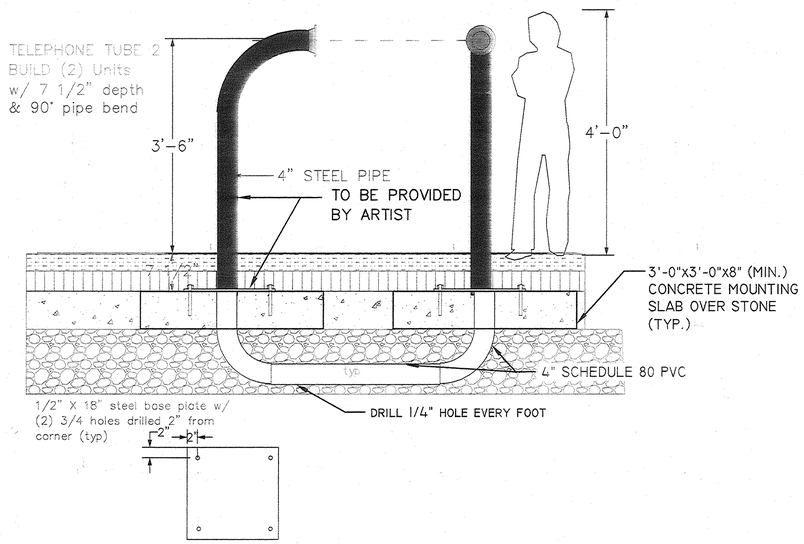
PARABOLIC BENCH DETAIL

N.T.S.



SPEAKING TUBE MOUNTING DETAIL

N.T.S.



TELEPHONE TUBE MOUNTING DETAIL WITH SLAB

1" = 1'-0"

GENERAL NOTES

1. THE CONTRACTOR IS TO MOUNT / INSTALL ARTIST ITEMS AS DEPICTED ON THE DRAWING
2. THE CONTRACTOR IS TO OFF LOAD ARTIST ITEMS AND STORE IN A SECURE AREA. A BOOM TRUCK OR CRANE MAY BE REQUIRED.
3. ALL ANCHOR BOLTS, NUTS, FASTENERS, PLATES AND ANY ADDITIONAL HARDWARE SHALL BE 304 STAINLESS STEEL.
4. BOLT HOLES SHALL BE DRILLED INTO THE CONCRETE AT THE PROPER LOCATIONS AND DEPTH PER ARTIST ITEM. DRILLED HOLES SHALL BE CLEANED WITH AN AIR COMPRESSOR PRIOR TO INSTALLATION.
5. ALL ANCHORS SHALL BE AFFIXED BY HILTI C-100 SYSTEM OR APPROVED EQUAL.
6. The approximate weights for the following pieces of equipment are provided for the Contractor's use: 1) Big Eyes / Big Ears 1200 lbs. crated needs to be lifted to top of 'parapet". 2) Parabolic Bench Dishes 1000 lbs. each dish. 3) Wind Reed 250 lbs. 4) Wiggle Benches 250 lbs. each crated. 5) (2) Slapped pipes 500 lbs. each crated. 6)Gong 300 lbs. crated. 7) Telephone tubes 200 lbs. each. 8) Twist Sculpture 250 lbs. crated. Need to be lifted 20 feet to the top of the tower. 9) Armature for Parabolic Bench 250 lbs. crated.

RECORD DRAWING

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212-791-3595

PLAYGROUND DESIGN
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ARCHITECT
Barkstrom & Lacroix
50 Chestnut St.
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585-262-9914

RINK CONSULTANT
North American Ice
604-291-9980

Rev.	Description	By	Date
1	PER ADDENDUM 2 DATED 5/9/05	SRP	9/1/05
2	RECORD DRAWINGS	AAB	4.16.10

Manhattan Square Park
Phase One Rennovations

ARTIST EQUIPMENT DETAILS

Project No.	7530024
Proj. Manager	D.A.H.
Proj. Designer	B.B./M.B.
Drawn By	B.B
Checked By	B.B
Scale	AS SHOWN
Approved	D.A.H.
Date	1/22/04

L 9.2

Sheet 15 of 38

E1 msp

U:\7053\100\09\Cad\V.1.05 Conformed Dwg Set\Electrical dwg set 9-19-05\Record Drawings\L 9.2 (SONIC).dwg
2010-04-19 11:41 AM By:Bolton, Amanda

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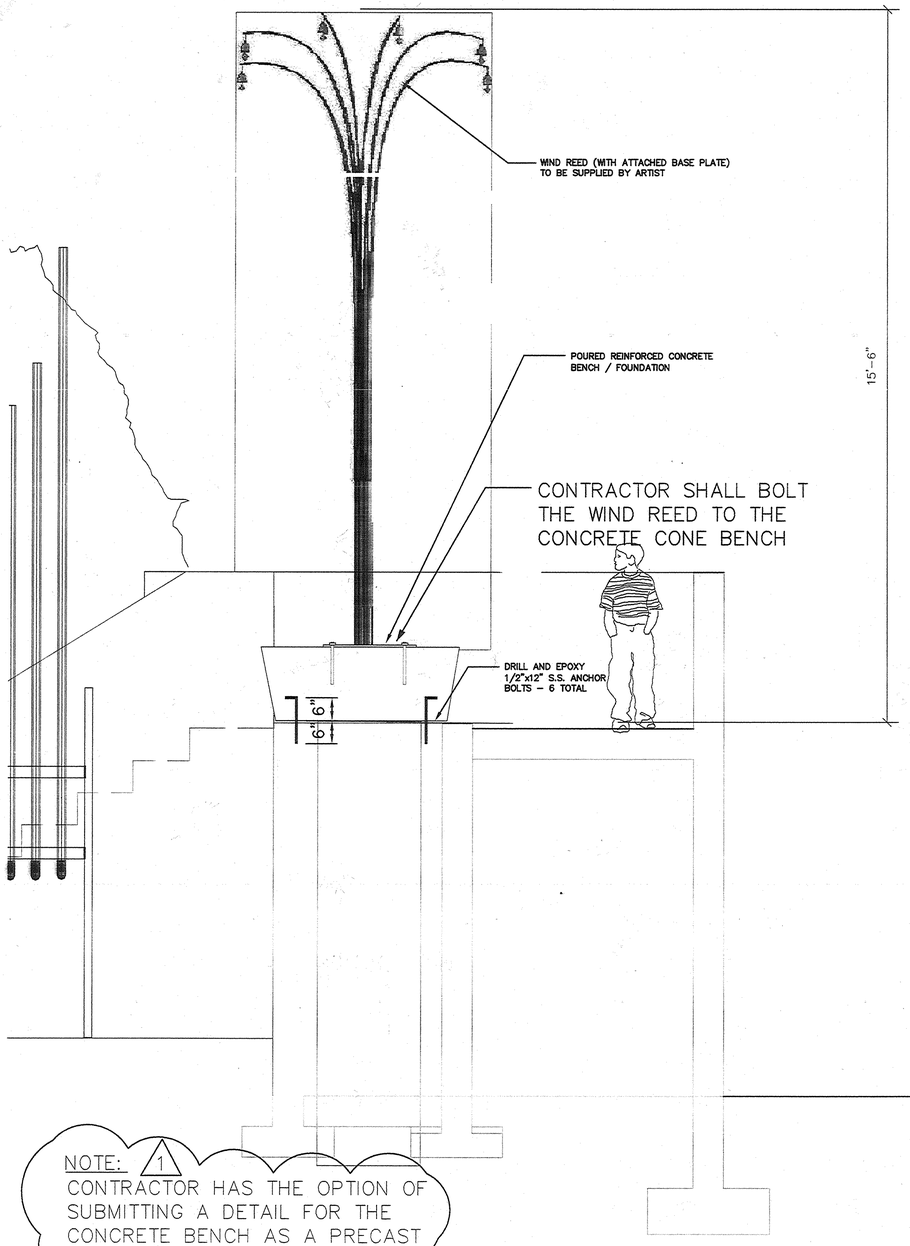
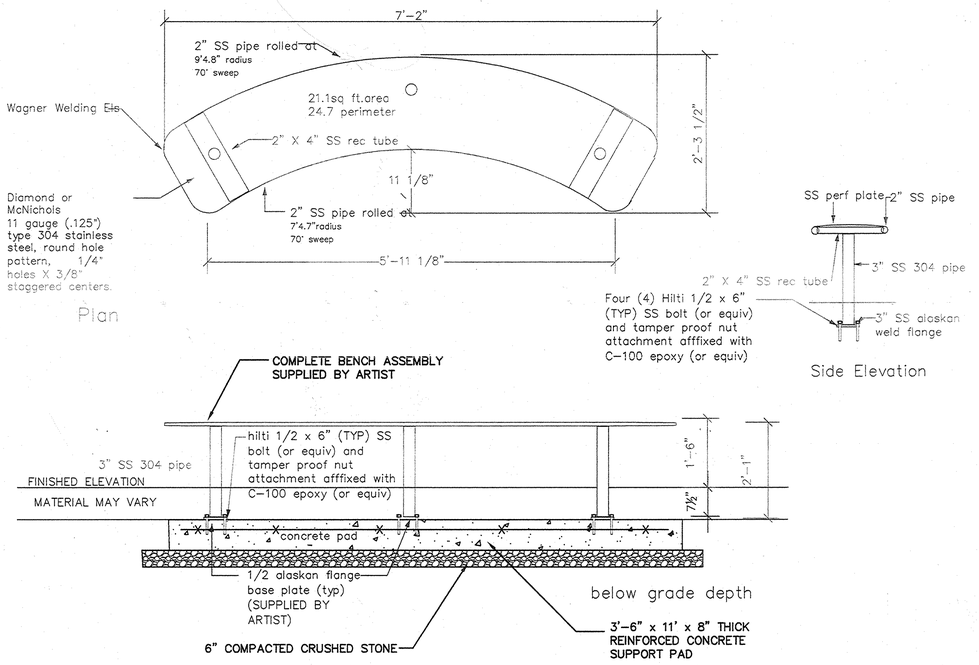
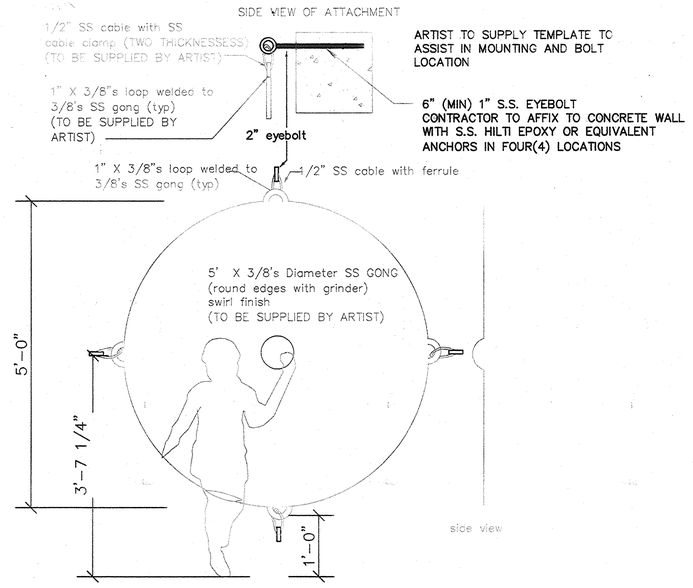


NOTE: 1
CONTRACTOR HAS THE OPTION OF SUBMITTING A DETAIL FOR THE CONCRETE BENCH AS A PRECAST UNIT.

WIND REED & BENCH
3/4" = 1'



WIGGLE BENCH (FOUR TO BE SUPPLIED)
3/4" = 1'



GONG
1" = 1'

RECORD DRAWING
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RINK CONSULTANT
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No.	Description	Date	By
1	PER ADDENDUM 2 DATED 5/9/05	9/1/05	SRP
2	RECORD DRAWINGS	4.16.10	AAB

Manhattan Square Park
Phase One Rennovations

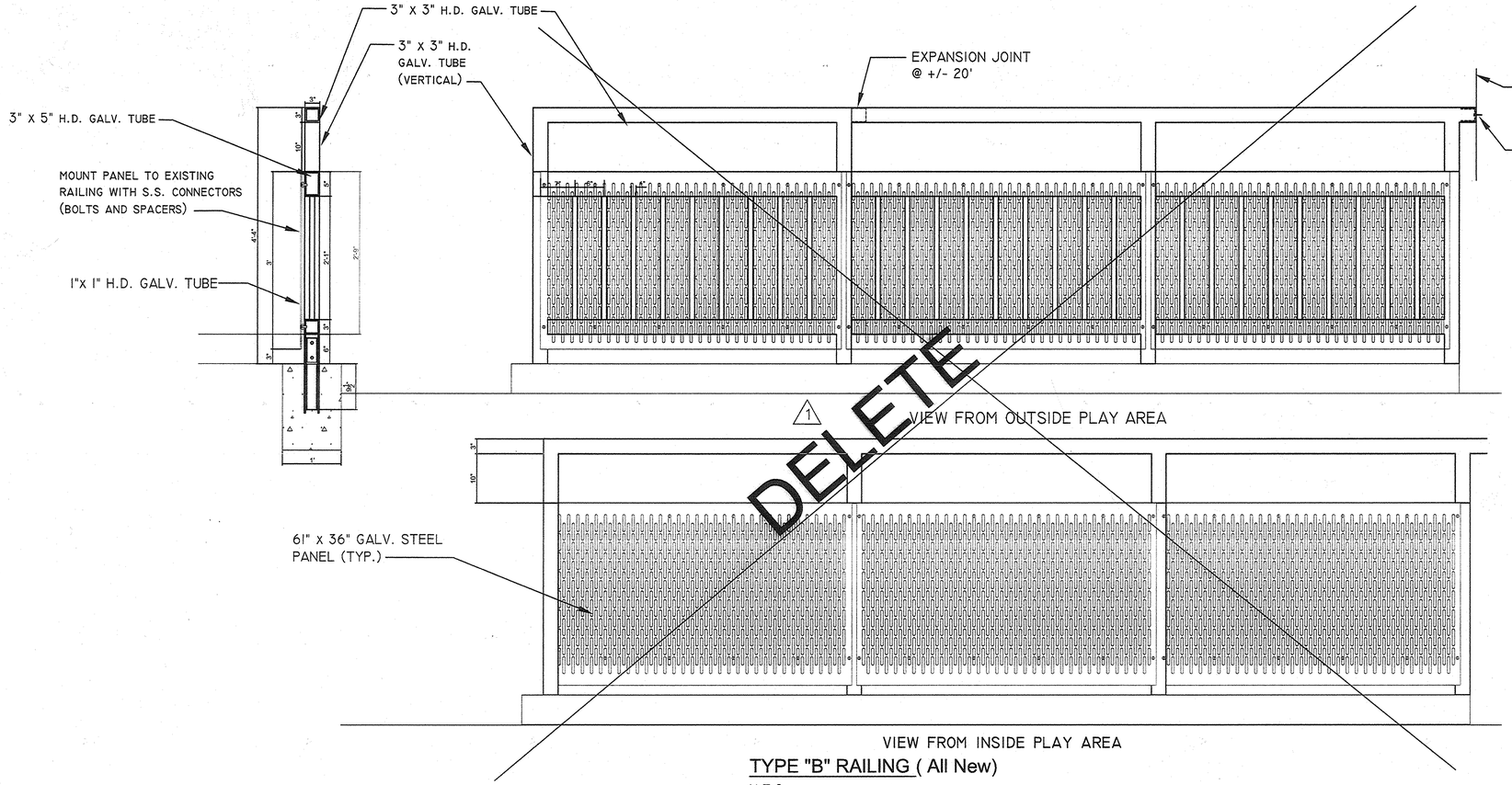
ARTIST EQUIPMENT DETAILS

Project No.	7538024
Proj. Manager	D.A.H.
Proj. Designer	B.B./M.B.
Drawn By	B.B.
Checked By	B.B.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/23/04

L 9.3

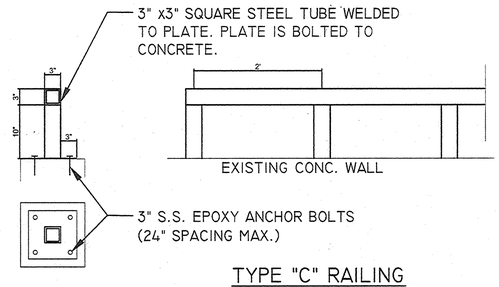
Sheet 16 of 38
E1 msp

U:\7538\1000W\Cad\9.1.05 Conformed Dwg Set\Electrical dwg set 9-19-05\Record Drawings\L 9.3 (SONARC 2).dwg
2010-04-19 12:37 PM By:Button,Amanda
ORIGINAL SHEET - 30 X 42



TYPE "B" RAILING (All New)

N.T.S.

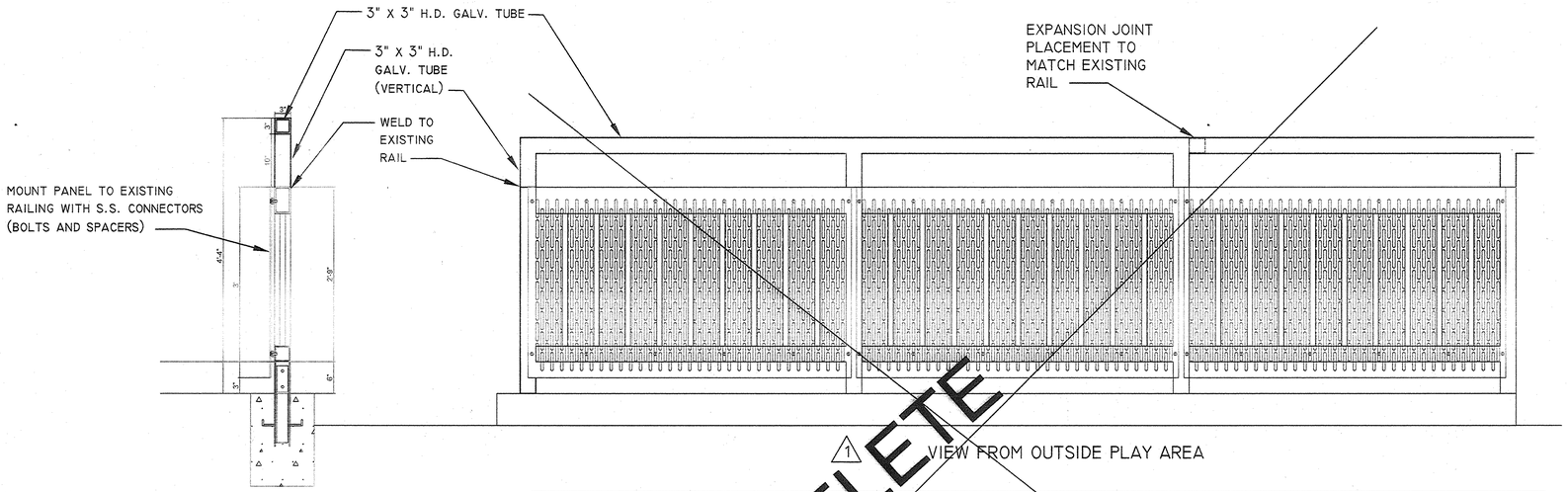


TYPE "C" RAILING

N.T.S.

NOTE: 1

Contractor shall fabricate a complete section and/or full size panel mock-up of all types of railing (in addition to shop drawing and other submittal requirements). The mock-ups shall show connection techniques and all materials.



TYPE "A" RAILING

N.T.S.

NOTE:
ALL RAILINGS, (EXISTING AND PROPOSED) SHALL BE PAINTED AS NOTED HERE AND IN THE SPECIFICATIONS:
THIS WORK SHALL CONSIST OF APPLYING A THREE COAT STRUCTURAL STEEL PAINT SYSTEM OVER THE GALVANIZED RAILING SECTIONS.
ALL RAILING SECTIONS, PANELS AND ANCHOR PLATES ARE TO BE HOT DIPPED GALVANIZED PRIOR TO PAINT IN ACCORDANCE WITH ASTM A123 ZINC (HOT-DIP GALVANIZED) COATING ON IRON AND STEEL PRODUCTS. HARDWARE IS TO BE STAINLESS STEEL.
THE THREE COAT SYSTEM SHALL CONSIST OF THE FOLLOWING COMPONENTS:
1. EPOXY PRIMER
2. EPOXY INTERMEDIATE COAT
3. POLYURETHANE TOPCOAT
ALL COMPONENTS SHALL BE COMPATIBLE AND SUPPLIED BY A SINGLE MANUFACTURER.
THE TOPCOAT COLOR SHALL BE CHOSEN BY THE OWNER.

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Rev.	Description	Date	By
1	PER ADDENDUM 2 DATED 5/9/05	9/1/05	SRP
2	RECORD DRAWINGS	4.16.10	AAB

Manhattan Square Park
Phase One Renovations

RAILING DETAILS

Project No.	7630024
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/22/04

RECORD DRAWING

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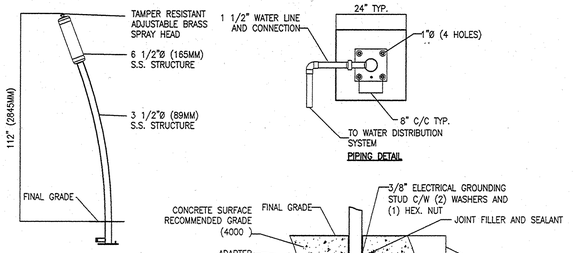
L 9.4

Sheet 17 of 38

E1 msp

I:\21051009\Cad\9.1.05 Conformed Dwg Set\Electrical dwg set 9-19-05\Record Drawings\L 9.4 (DETAILS).dwg
2010-04-19 12:38 PM ByButton, Amanda



FLOW: 30 TO 60 GPM (114 TO 225 LPM)
PRESSURE: 10 TO 15 PSI (0.7 TO 1.0 BAR)

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. CONTRACTORS NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 427–090.

CAT TAIL

N.T.S.

Cattail VOR-0514

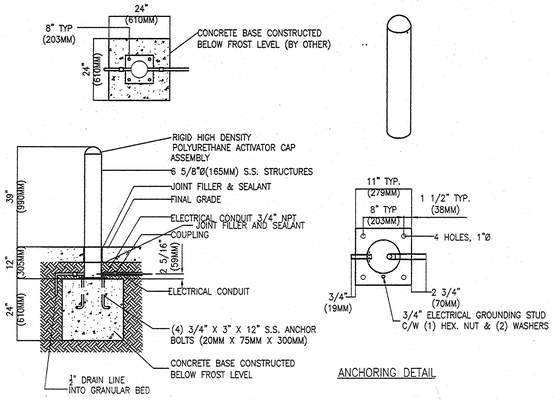
Structural Tubing
All structural tubing shall be constructed of STAINLESS STEEL.
1-1/2" - outside diameter of 1.900" with a wall thickness of .109" or .145".
3": - outside diameter of 2.875" with a wall thickness of .120" or .090".
4": - outside diameter of 4.025" with a wall thickness of .134".

Main Structure
Shall be constructed of two sections. The lower section shall be 3" STRUCTURAL TUBING, while the upper section shall be 4" STRUCTURAL TUBING. It shall have a rounded end cap attached to the top using a water tight, tamper resistant joint.

Cone Spray Head
Shall be constructed of BRASS and have an angle of 45° (degrees). It shall be adjustable to control the spray pattern and water consumption.

Anchoring System
All anchoring system materials shall be constructed of STAINLESS STEEL.
U-bolt Anchors: 2/4"" diameter x 6"" x 14""
Base Plate: 11"x11"square x3/8"thick

Water Inlets
Shall be a 1 1/2""National Pipe Thread connection welded to the main structure.



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. REFERENCE NUMBER 427–009.

MAGIC TOUCH BOLLARD DETAIL

N.T.S.

Magic Touch Bollard, VOR-0600:

Structureshall be constructed of stainless steel 304/304L tubing with an external diameter of 6.625" and a wall thickness of 0.134". It shall have an overall height of 51" and rise 39" above final grade.

Activation Cap:shall consist of a high impact resistant protection cap and a low voltage sensor. The protection cap shall be constructed of high density polyurethane with a nominal weight of 3.6 LBS.(1.7 Kg). The polyurethane shall be UV resistant, rigorous and non flammable. It shall be equipped with an integrated threaded housing for the sensor. The sensor shall operate on 24 vdc with no visible or moving parts. It shall have a thermoplastic polyester housing and triple shield sensor protection. The sensitivity shall be adjustable with an LED indication. The activation cap shall be secured in place using a specially designed rotational locking system with a tampesistant stainless steel bolt.

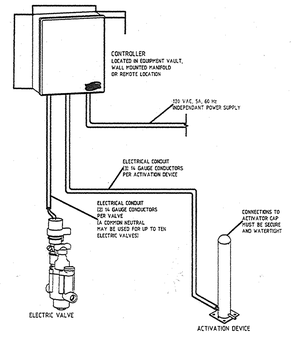
Electrical Conduit Connectionthe electrical conduit connection shall bea ¾" National Pipe Thread located at the base of the tubular section. The conduit shall extend into the tubular section and up to the activation cap. It shall be constructed of stainless steel 304 and welded to the tubular structure with a watertight, 28° fillet weld.

Base Plateshall be 3/8" thick and 11" square with four (4) 1" diameter bolt holes. It shall be constructed of stainless steel 304 and secured to the tubular section with a ¼" watertight, fillet weld along the entire circumference.

Electrical Grounding Connectionshall be a 3/8"-16 threaded lug welded to the base plate complete with a stainless steel, 3/8" hex nut and two (2) flat washers.

Drainage system:shall have a ½" National Pipe Thread connection at the base of the tubulatiee. It shall be constructed of stainless steel 304 and welded to the tubular structure with a watertight, 1/8" fillet weld.

Anchoring Systemshall consist of four (4) ¾" dia. x 3" x 12"-bolt anchors, complete with eight (8) hex bolts, eight (8) lit washers and four (4) lockwashers. All material used shall be stainless steel 304.



CONTROLLER – 10 OUTPUT DETAIL

N.T.S.

Controller (10 Output), VOR-0710:

The Controller shall be UL Listed to U.S. and Canadian Safety Standards. It shall possess the following components and characteristics.

Programmable: The controller shall be factory programmed with a variety of spray sequences designed according to the requirements of the project. The controller shall be equipped with the flexibility to modify the sequences using a transportable memory cartridge.

Time Switch: The controller shall be equipped with a 24hr/7day programmable analog time switch to set the operational hours of the facility. The time switch shall have the ability to program a different schedule for each day of the week or have several days operate on the same schedule.

Transformer: The controller shall contain a 120V primary/24V secondary transformer with built - in electrostatic shield protection.

Selector Switches: The controller shall have 3 position selector switches for each solenoid valve, the activation device and the time switch. These switches shall be used to select the operational mode of the components (i.e. hand, off and automatic).

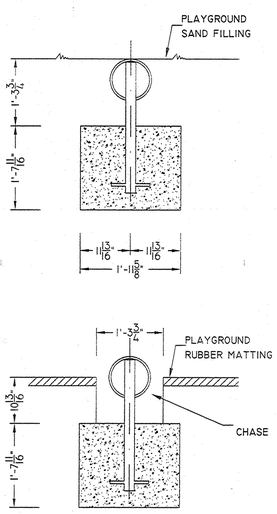
Enclosure: The controller shall be equipped with a corrosion -resistant, fiber-reinforced electrical enclosure with NEMA 4X rating. The enclosure shall have stainless steel lockable latches.

Interface Board:shall be constructed of stainless steel. The selector switches and time switch shall be mounted on the interface board. The interface board shall be mounted in the enclosure.

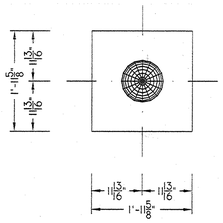
Outputs The controller shall have the capability of controlling a maximum of 10 solenoid valves

Inputs: The controller shall have the capacity to receive signals from 2 separate detecting sources operating on 24VDC.

SECTION VIEW



TOP VIEW



SPACE BALL FOOTER

N.T.S.

NOTE:
ALL CONCRETE SHALL BE 4000 PSI.

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Rev.	Description	By	Date
1	RECORD DRAWINGS	AAB	4.16.10

Manhattan Square Park
Phase One Renovations

SITE DETAILS

Project No.	7530024
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/23/04

RECORD DRAWING
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L 9.5

Sheet 18 of 38

E1 msp

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2010-04-19 12:39 PM ByBolton, Amanda
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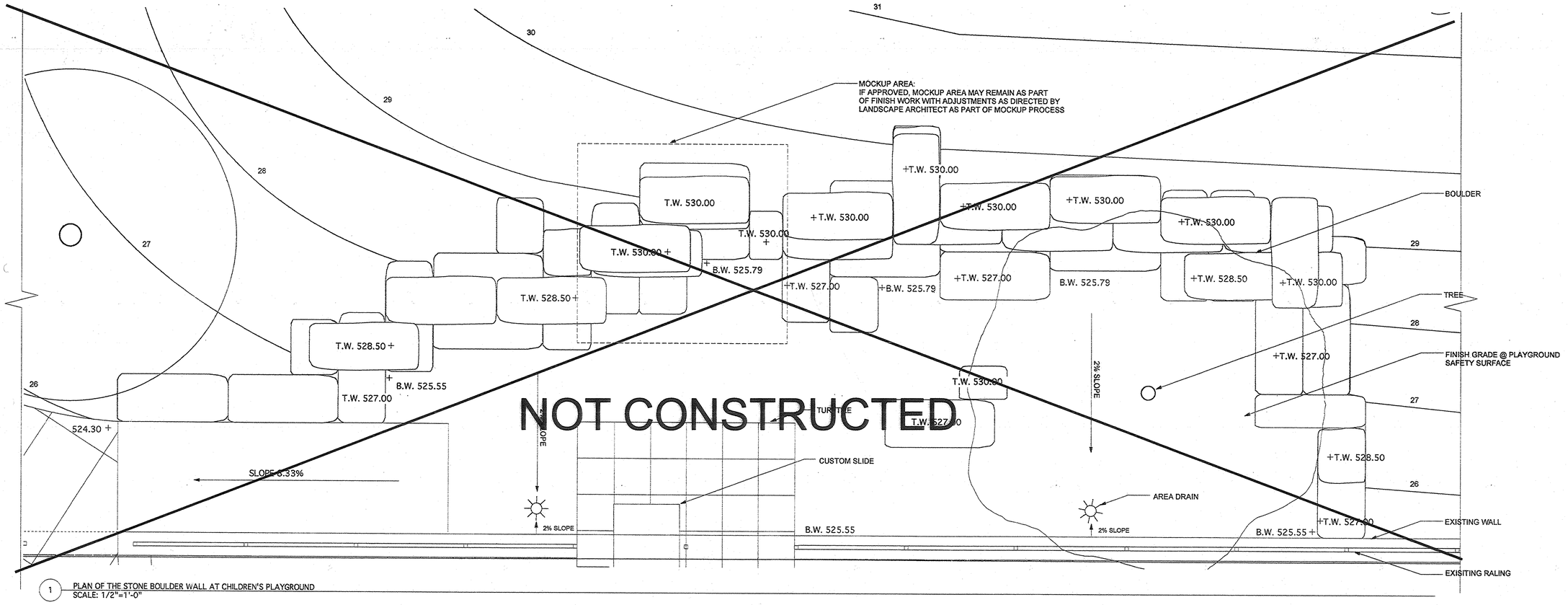
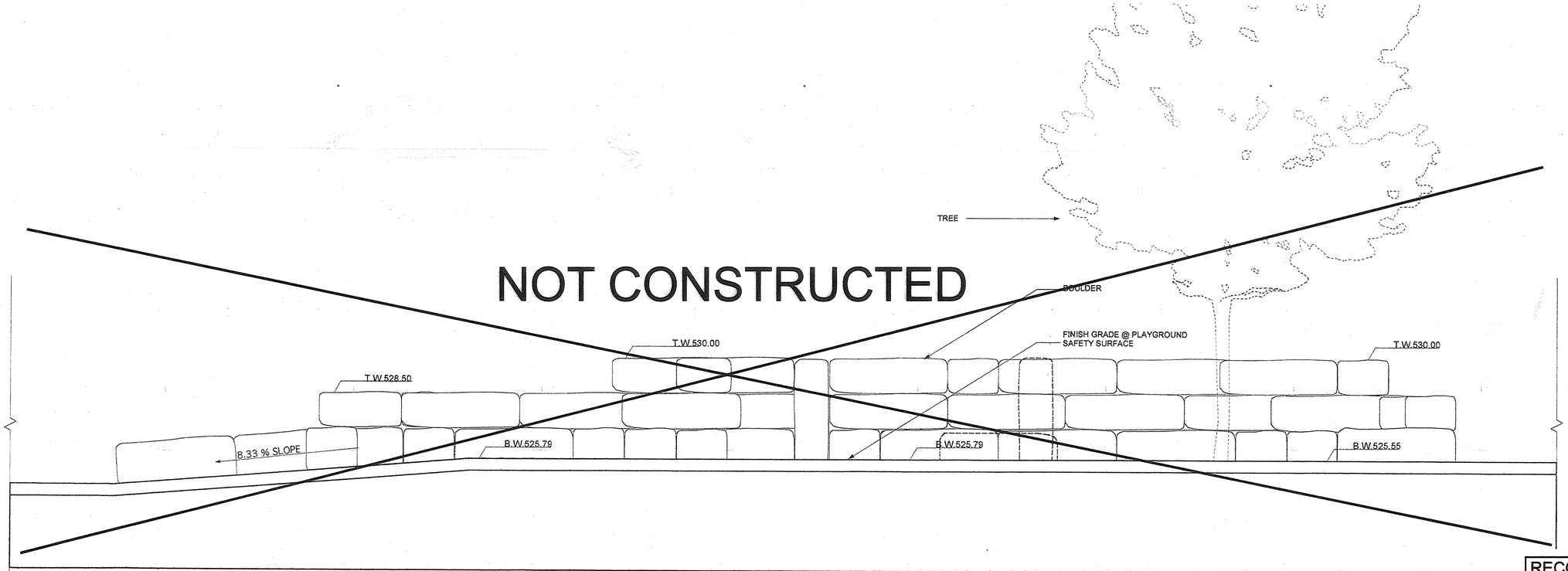


1 PLAN OF THE STONE BOULDER WALL AT CHILDREN'S PLAYGROUND
SCALE: 1/2"=1'-0"



2 SECTION OF THE STONE BOULDER WALL AT CHILDREN'S PLAYGROUND
SCALE: 1/2"=1'-0"

RECORD DRAWING

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Rev.	Description	By	Date
1	RECORD DRAWINGS		4.16.10
	ADDENDA SET 1	AAB	04.26.05

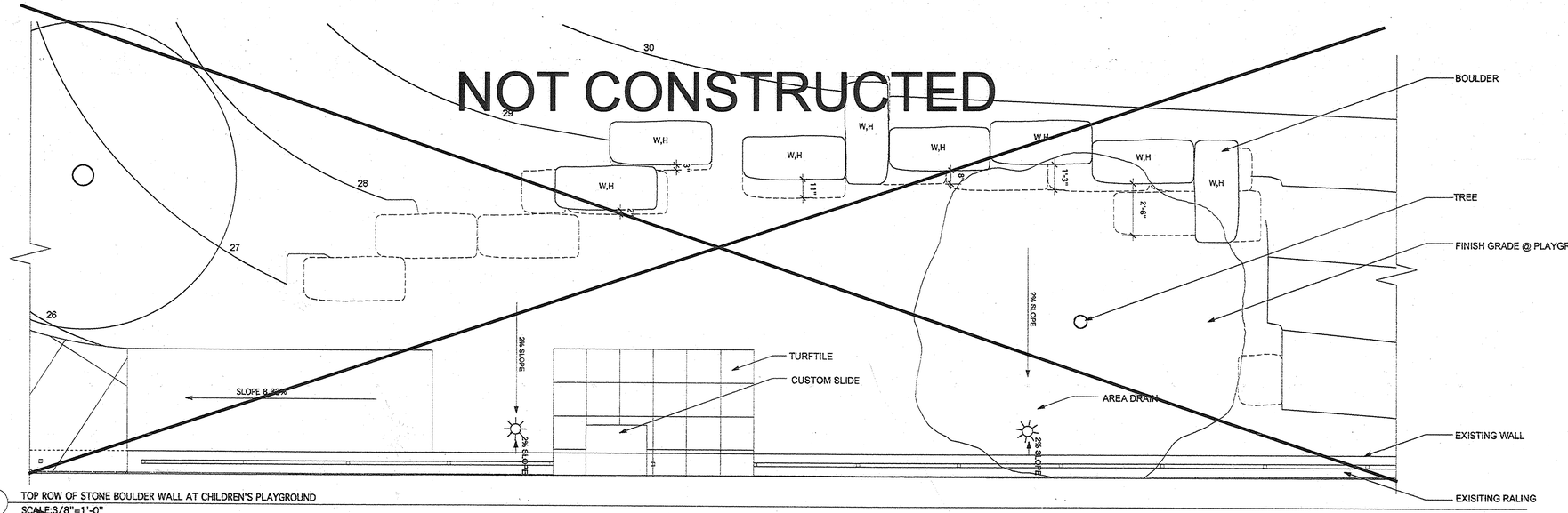
Manhattan Square Park
STONE BOULDER WALL

Project No.	753/0/24
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/23/04

L 9.6

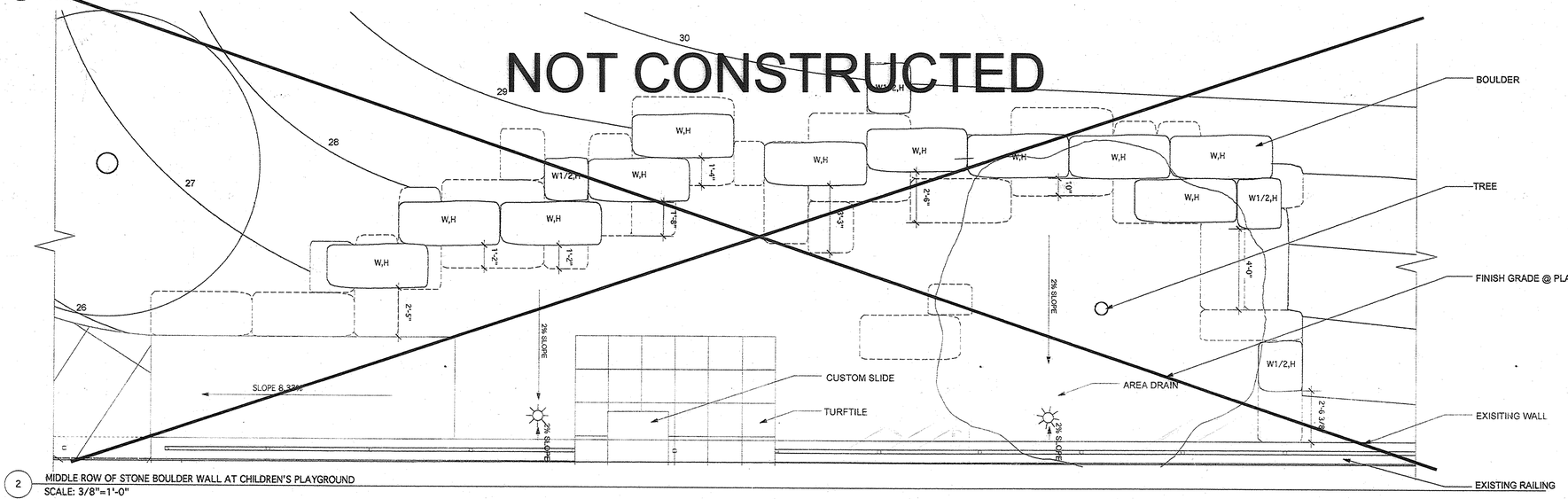
Sheet 19 of 38
E1 MSP

NOT CONSTRUCTED



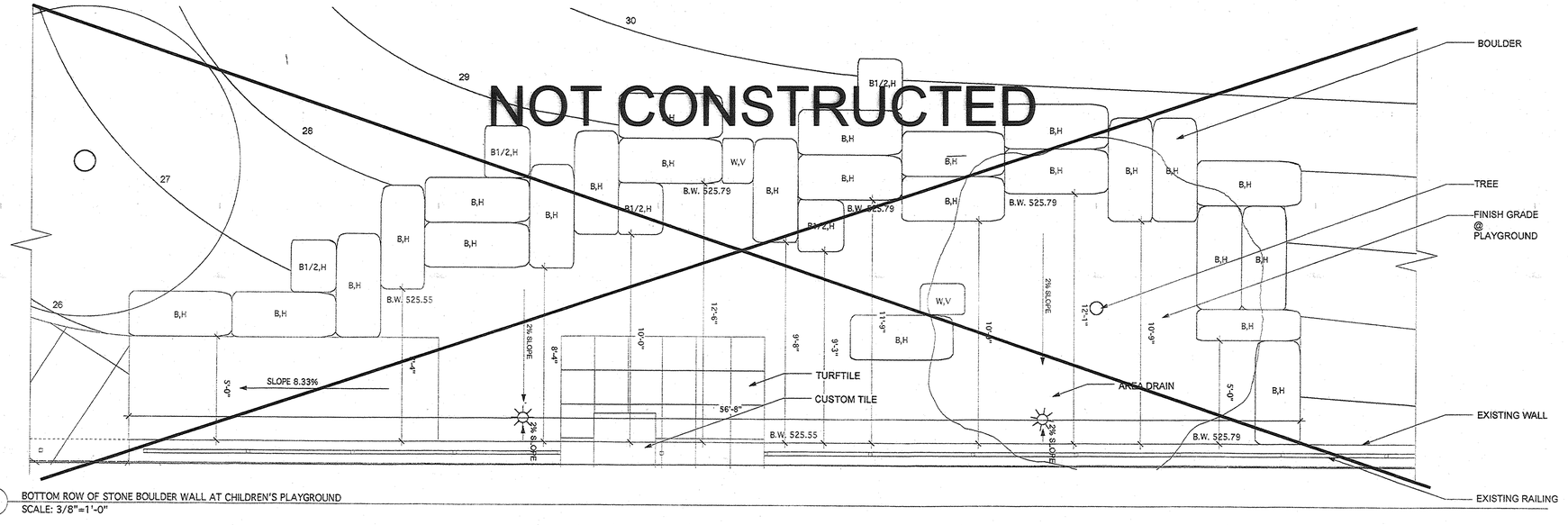
1 TOP ROW OF STONE BOULDER WALL AT CHILDREN'S PLAYGROUND
SCALE:3/8"=1'-0"

NOT CONSTRUCTED



2 MIDDLE ROW OF STONE BOULDER WALL AT CHILDREN'S PLAYGROUND
SCALE: 3/8"=1'-0"

NOT CONSTRUCTED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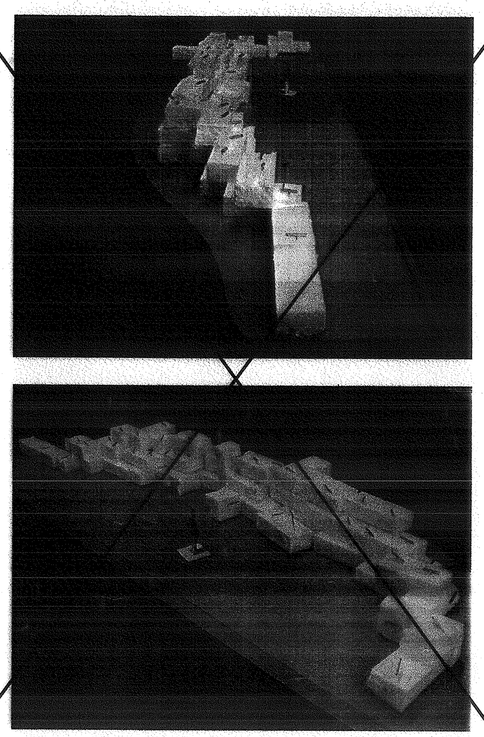
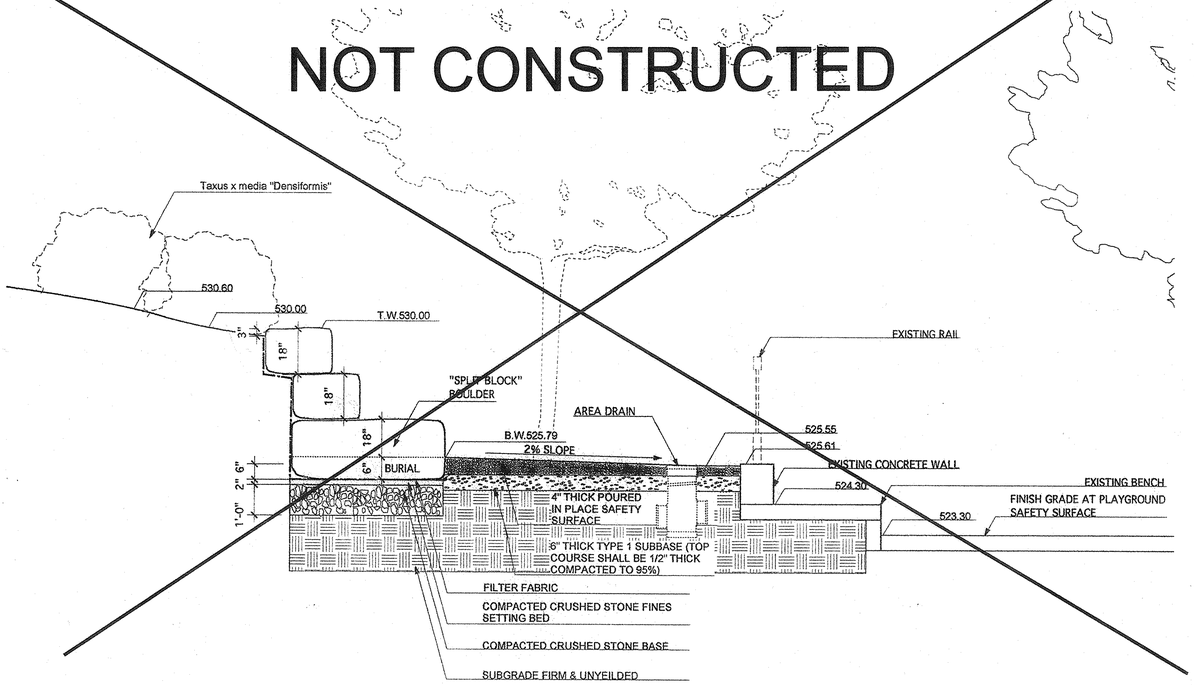
29
28
27
26
B1/2,H
B,H
W,V
B.W. 525.79
B.W. 525.55
B,H
B1/2,H
B,H
B,H
B

NOT CONSTRUCTED



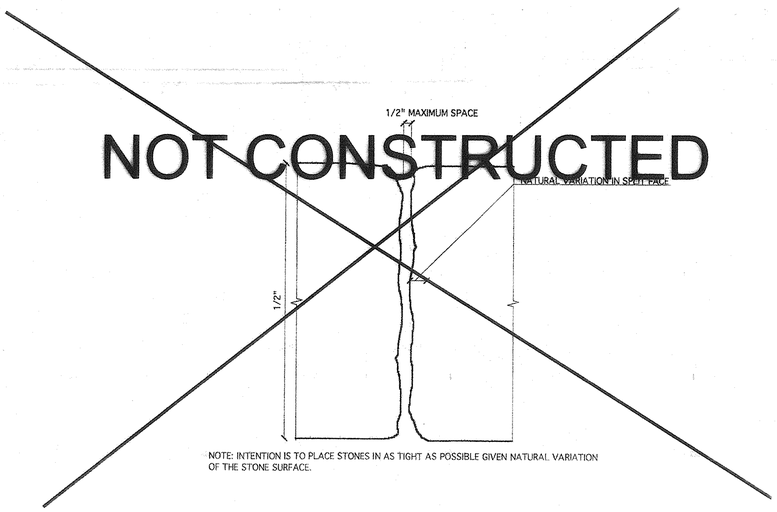
2 MODEL PHOTO OF THE STONE BOULDER WALL AT THE CHILDREN'S PLAYGROUND
NOT TO SCALE

NOT CONSTRUCTED



1 SECTION OF THE STONE BOULDER WALL AT THE CHILDREN'S PLAYGROUND
SCALE: 1/2"=1'-0"

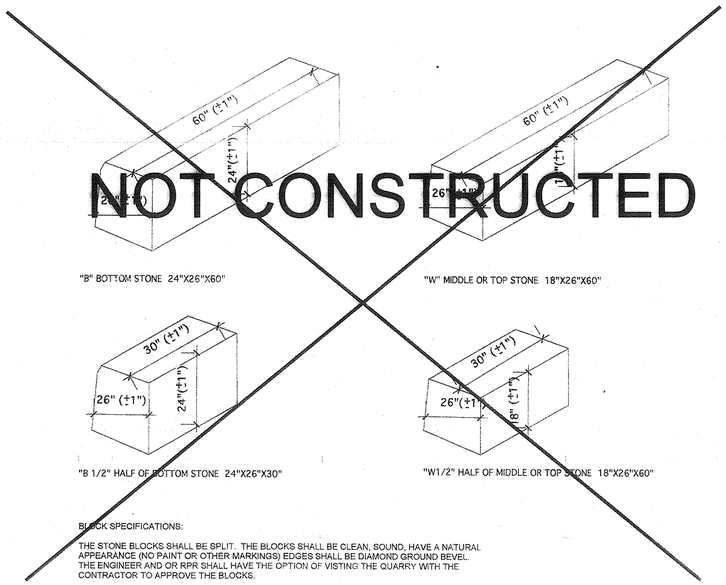
NOT CONSTRUCTED



NOTE: INTENTION IS TO PLACE STONES IN AS TIGHT AS POSSIBLE GIVEN NATURAL VARIATION OF THE STONE SURFACE.

3 STONE BOULDER JOINT AT STONE BOULDER WALL, TYPICAL
SCALE: 3"=1'-0"

NOT CONSTRUCTED



BLOCK SPECIFICATIONS:

THE STONE BLOCKS SHALL BE SPLIT. THE BLOCKS SHALL BE CLEAN, SOUND, HAVE A NATURAL APPEARANCE (NO PAINT OR OTHER MARKINGS) EDGES SHALL BE DIAMOND GROUND BEVEL. THE ENGINEER AND OR RPR SHALL HAVE THE OPTION OF VISTING THE QUARRY WITH THE CONTRACTOR TO APPROVE THE BLOCKS.

3 STONE "SPLIT BLOCK" MODULES
NOT TO SCALE

NOTES:

1) CONTRACTOR TO SUBMIT SHOP DRAWINGS OF TYPICAL STONE/BOULDER MODULES FOR APPROVAL BY LANDSCAPE ARCHITECT.

2) CONTRACTOR TO LAYOUT STONE BOULDERS WITH SURVEY TAPE AND STAKES WITH ELEVATIONS PRIOR TO INSTALLATION FOR APPROVAL BY LANDSCAPE ARCHITECT.

3) DURING SPLITTING PROCESS THE LANDSCAPE ARCHITECT WILL VISIT FABRICATOR'S SHOP FOR MOCK-UP OF EACH TYPE/MODULE OF THE SPLIT STONE SIZES. THE CONTRACTOR/FABRICATOR SHALL BE EQUIPPED WITH SUFFICIENT EQUIPMENT TO TEST OUT TYPICAL STACKING METHODS.

4) ONCE STONE BOULDER WALL IS FINISHED THE CONTRACTOR WILL PROVIDE ONSITE THERMAL OR HANDWORK OF ALL SHARP EDGES IDENTIFIED BY THE CLIENT AND/OR DESIGN TEAM. THE SURFACES OF THE STONE SHOULD BE MADE SAFE TO TOUCH.

5) ONCE STONE BOULDER WALL IS SPLIT AND DELIVERED, LANDSCAPE ARCHITECT WILL BE ON SITE DURING STONE PLACEMENT.

6) CONTRACTOR SHALL PROVIDE A MOCK-UP OF STONE WALL AS INDICATED ON DETAIL 1: SHEET L 9.6 FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT. IF APPROVED, THE MOCK-UP MAY BECOME PART OF INSTALLATION.

RECORD DRAWING

THESE DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS AND TO THE BEST OF OUR KNOWLEDGE REPRESENT CONDITIONS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND / OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED HEREIN AS A RESULT.

ENGINEER & LANDSCAPE ARCHITECT
Dufresne-Henry
151 St. Paul St.
Rochester, New York, 14604
585-454-2080

LANDSCAPE ARCHITECT
Ken Smith Landscape Architect
79 Chambers St.
New York, New York, 10007
212-791-3595

PLAYGROUND DESIGN
Sonic Architecture
P.O. Box 20873
New York, New York, 10009
212-982-1743

ARCHITECT
Barkstrom & Lacroix
50 Chestnut St.
Rochester, New York, 14604
585-262-9914

RINK CONSULTANT
North American Ice
876 Grove Avenue
Burnaby, B.C., Canada
585-262-9914

Rev.	Description	By	Date
1	RECORD DRAWINGS		4.16.10
	ADDENDA SET 1	AAB	04.26.05

Manhattan Square Park

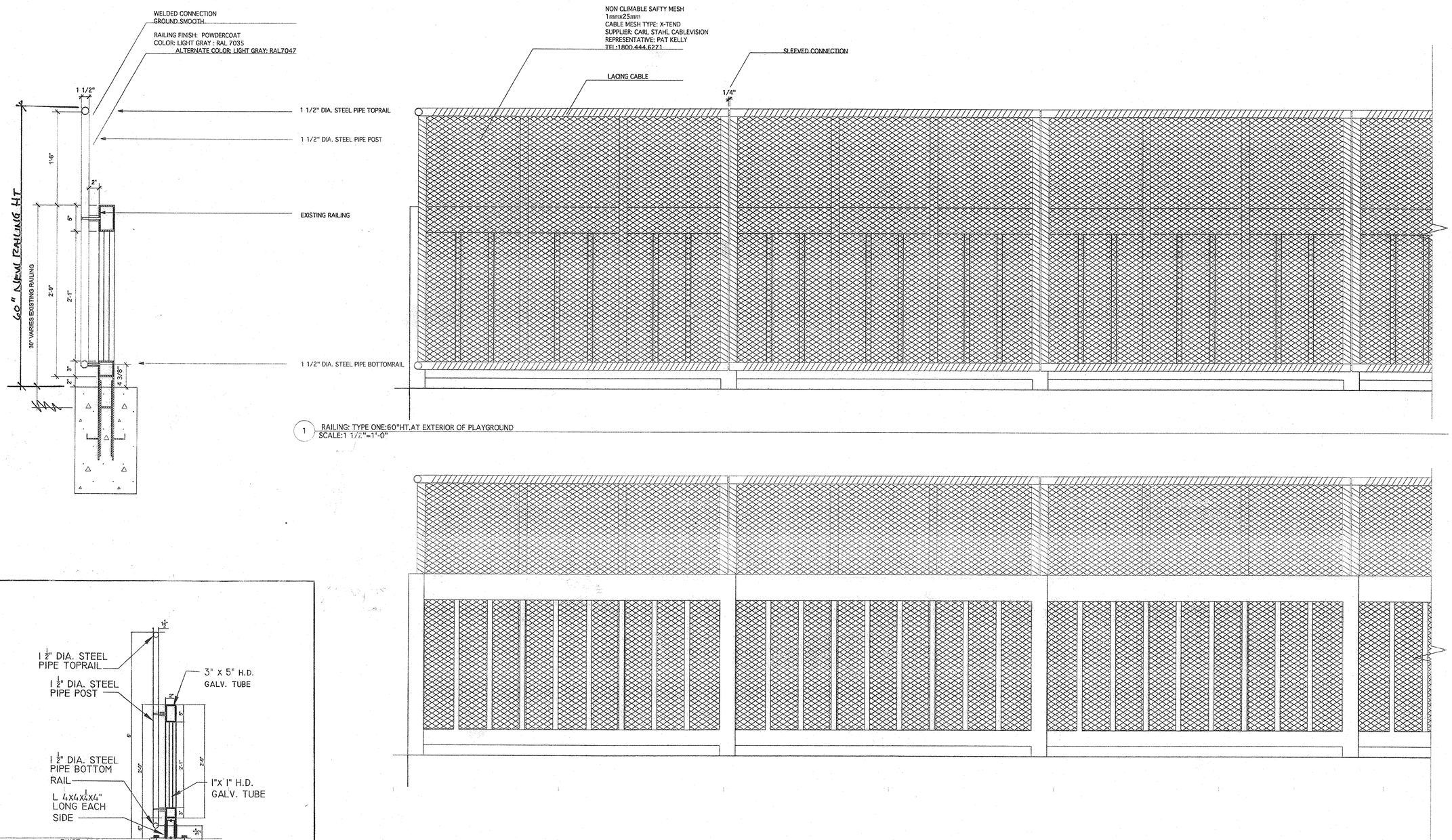
STONE BOULDER WALL

Project No.	7530034
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/23/04

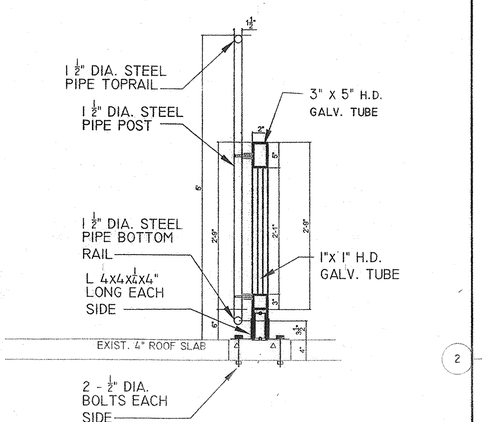
L 9.8

Sheet 21 of 38
E1 MSP

NOTE:
1) CONTRACTOR SHALL MEASURE IN FIELD THE VARIOUS CONDITIONS OF THE EXISTING RAILING TO BE MODIFIED. THIS INCLUDES, BUT NOT LIMITED TO THE AREA AT THE TOP OF THE SLOPE WHERE THE BIG EYES/BIG EARS AND THE TOP OF THE SLIDES ARE LOCATED. THE RAILING SHALL ENCLOSED THIS AREA AND SHALL FOLLOW THE OUTLINE OF THE PERIMETER OF THE EXISTING RAILING AND THE THE PERIMETER WITH THE SLIDES AND THE TOWER. THE RAILING SHALL FIT WITH THE SLIDES AND THE TOWER.
2) CONTRACTOR TO SUBMIT SHOP DRAWINGS OF THE RAILING IN THE VARIOUS CONDITIONS FOR APPROVAL BY LANDSCAPE ARCHITECT.
3) CONTRACTOR TO PROVIDE A MOCK UP ONE MODULE FOR APPROVAL BY LANDSCAPE ARCHITECT.
4) CONTRACTOR SHALL ALSO SUBMIT SAMPLE A 12" X 12" CABLE MESH FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT



1 RAILING: TYPE ONE:60"HT.AT EXTERIOR OF PLAYGROUND
SCALE:1 1/2"=1'-0"



2 RAILING: TYPE ONE:60"HT.AT INTERIOR OF PLAYGROUND
SCALE:1 1/2"=1'-0"

Project No.	98037
Proj. Mgr.	D.A.H.
Drawn By	C.A.C.
Scale	1" = 1'
Date	APRIL 27, 2005

MANHATTAN SQUARE PARK
REVITALIZATION PROJECT
ADDENDUM NO. 2
SUPPLEMENTAL TO SHEET L9.9
ROCHESTER NEW YORK

ENGINEER & LANDSCAPE ARCHITECT
Dufresne-Henry
151 St. Paul St.
Rochester, New York, 14604
585-454-2080

LANDSCAPE ARCHITECT
Ken Smith Landscape Archi
79 Chambers St.
New York, New York, 10007
212-791-3595

PLAYGROUND DESIGN
Sonic Architecture
P.O. Box 20873
New York, New York, 10009
212-682-1743

ARCHITECT
Barkstrom & Lacroix
50 Chestnut St.
Rochester, New York, 14604
585-262-9914

RINK CONSULTANT
North American Ice
876 Grove Avenue
Burnaby, B.C., Canada
585-262-9914

Rev.	Description	By	Date
1	RECORD DRAWINGS	AAB	4.16.10

Manhattan Square Park

5' NEW RAILING DETAILS

RECORD DRAWING

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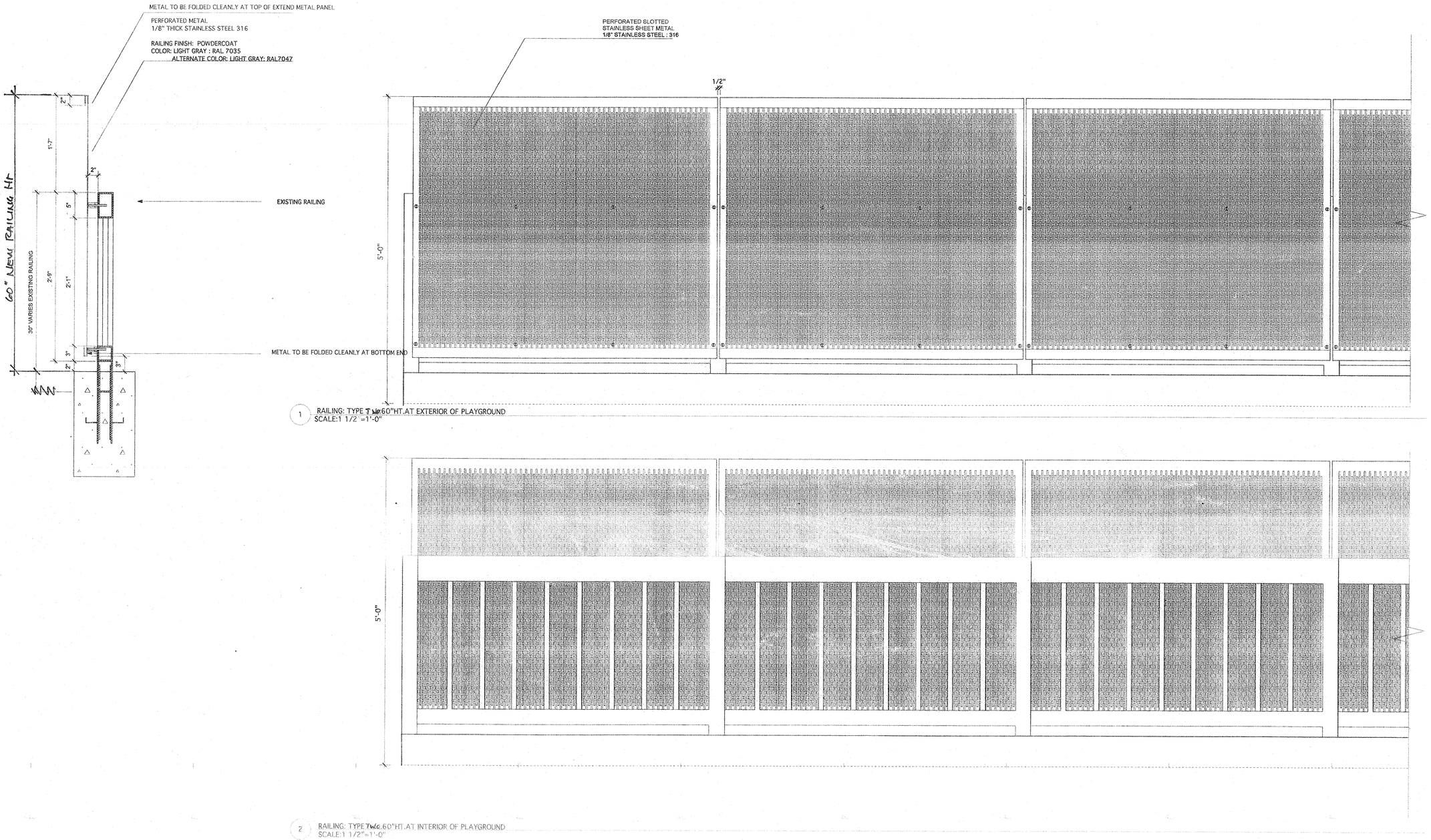
Project No.	7530/304
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/23/04

L 9.9

Sheet 22 of 38
E1 msp

NOTE:
1) CONTRACTOR SHALL MEASURE IN FIELD THE VARIOUS CONDITIONS OF THE EXISTING RAILING TO BE MODIFIED. THIS INCLUDES, BUT NOT LIMITED TO THE AREA AT THE TOP OF THE SLOPE WHERE THE BIG EYES/BIG EARS AND THE TOP OF THE SLIDES ARE LOCATED. THE RAILING SHALL ENCLOSED THIS AREA AND SHALL FOLLOW THE OUTLINE OF THE PERIMETER OF THE EXISTING RAILING AND THE THE PERIMETER WITH THE SLIDES AND THE TOWER. THE RAILING SHALL FIT WITH THE SLIDES AND THE TOWER.
2) CONTRACTOR TO SUBMIT SHOP DRAWINGS OF THE RAILING IN THE VARIOUS CONDITIONS FOR APPROVAL BY LANDSCAPE ARCHITECT.
3) CONTRACTOR TO PROVIDE A MOCK UP ONE MODULE FOR APPROVAL BY LANDSCAPE ARCHITECT.
4) CONTRACTOR SHALL ALSO SUBMIT SAMPLE A 18" X 18" PERFORATED SAMPLE THAT ALSO INCLUDES THE FOLDED TIP AND BOTTOM EDGE CONDITION FOR APPROVAL BY LANDSCAPE ARCHITECT.



1 RAILING: TYPE ~~T~~ One 60"HT.AT EXTERIOR OF PLAYGROUND
SCALE:1 1/2"=1'-0"

2 RAILING: TYPE ~~T~~ Two 60"HT.AT INTERIOR OF PLAYGROUND
SCALE:1 1/2"=1'-0"

RECORD DRAWING
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ENGINEER & LANDSCAPE ARCHITECT
Dufresne-Henry
151 St. Paul St.
Rochester, New York, 14604
585-454-2080

LANDSCAPE ARCHITECT
Ken Smith Landscape Archi
79 Chambers St.
New York, New York, 10007
212-791-3595

PLAYGROUND DESIGN
Sonic Architecture
P.O. Box 20873
New York, New York, 10009
212-982-1743

ARCHITECT
Barkstrom & Lacroix
50 Chestnut St.
Rochester, New York, 14604
585-262-9914

RINK CONSULTANT
North American Ice
876 Grove Avenue
Burnaby, B.C., Canada
585-262-9914

Rev.	Description	By	Date
1	RECORD DRAWINGS ADDENDA SET 1	AAB	4.16.10
			04.26.05

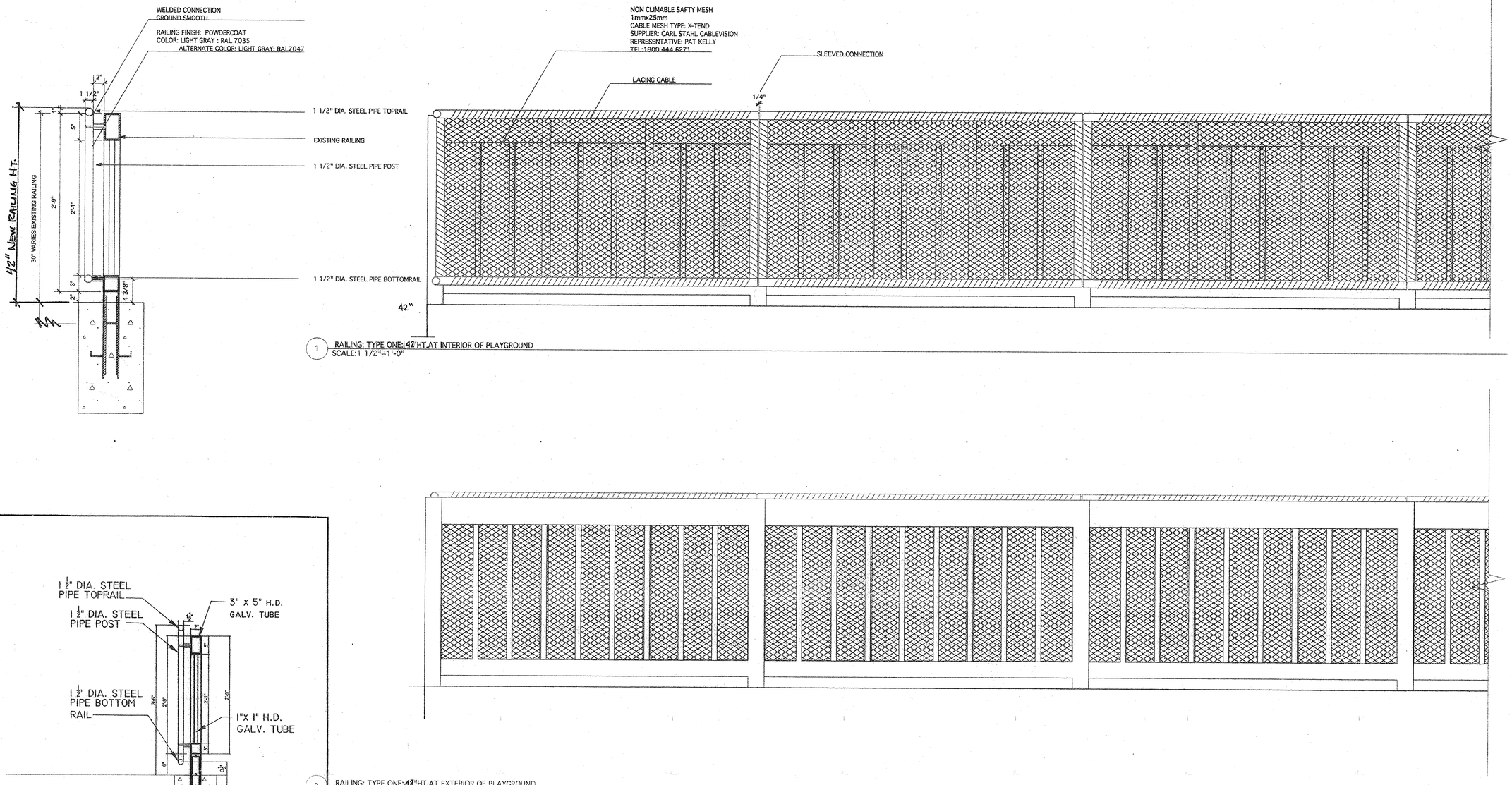
Manhattan Square Park

TYPE ONE: 60" HT. RAILING

Project No.	7535224
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	04/26/05

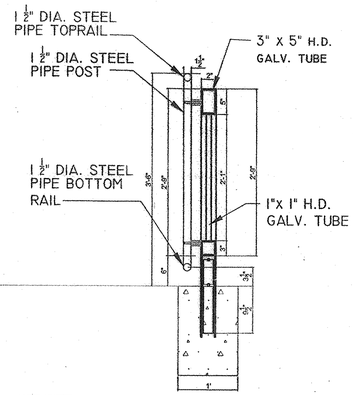
L 9.9A

NOTE:
1) CONTRACTOR SHALL MEASURE IN FIELD THE VARIOUS CONDITIONS OF THE EXISTING RAILING TO BE MODIFIED.
2) CONTRACTOR TO SUBMIT SHOP DRAWINGS OF THE RAILING IN THE VARIOUS CONDITIONS FOR APPROVAL BY LANDSCAPE ARCHITECT.
3) CONTRACTOR TO PROVIDE A MOCK UP ONE MODULE FOR APPROVAL BY LANDSCAPE ARCHITECT.
4) CONTRACTOR SHALL ALSO SUBMIT SAMPLE A 12" X 12" MESH FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT



1 RAILING: TYPE ONE: 42"HT. AT INTERIOR OF PLAYGROUND
SCALE: 1 1/2"=1'-0"

2 RAILING: TYPE ONE: 42"HT. AT EXTERIOR OF PLAYGROUND
SCALE: 1 1/2"=1'-0"



Project No.	98037
Proj. Mgr.	D.A.H.
Drawn By	C.A.C.
Scale	1" = 1'
Date	APRIL 27, 2005

MANHATTAN SQUARE PARK
REVITALIZATION PROJECT
ADDENDUM NO. 2
SUPPLEMENTAL TO SHEET L9.10
ROCHESTER NEW YORK

ENGINEER & LANDSCAPE ARCHITECT
Dufresne-Henry
151 St. Paul St.
Rochester, New York, 14604
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Ken Smith Landscape Archi
79 Chambers St.
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212-791-3595

PLAYGROUND DESIGN
Sonic Architecture
P.O. Box 20873
New York, New York, 10009
212-982-1743

ARCHITECT
Barkstrom & Lacroix
50 Chestnut St.
Rochester, New York, 14604
585-262-9914

RINK CONSULTANT
North American Ice
876 Grove Avenue
Burnaby, B.C., Canada
585-262-9914

Rev.	Description	By	Date
1	RECORD DRAWINGS		4.16.10
	ADDENDA SET 1	AAB	04.26.05

Manhattan Square Park

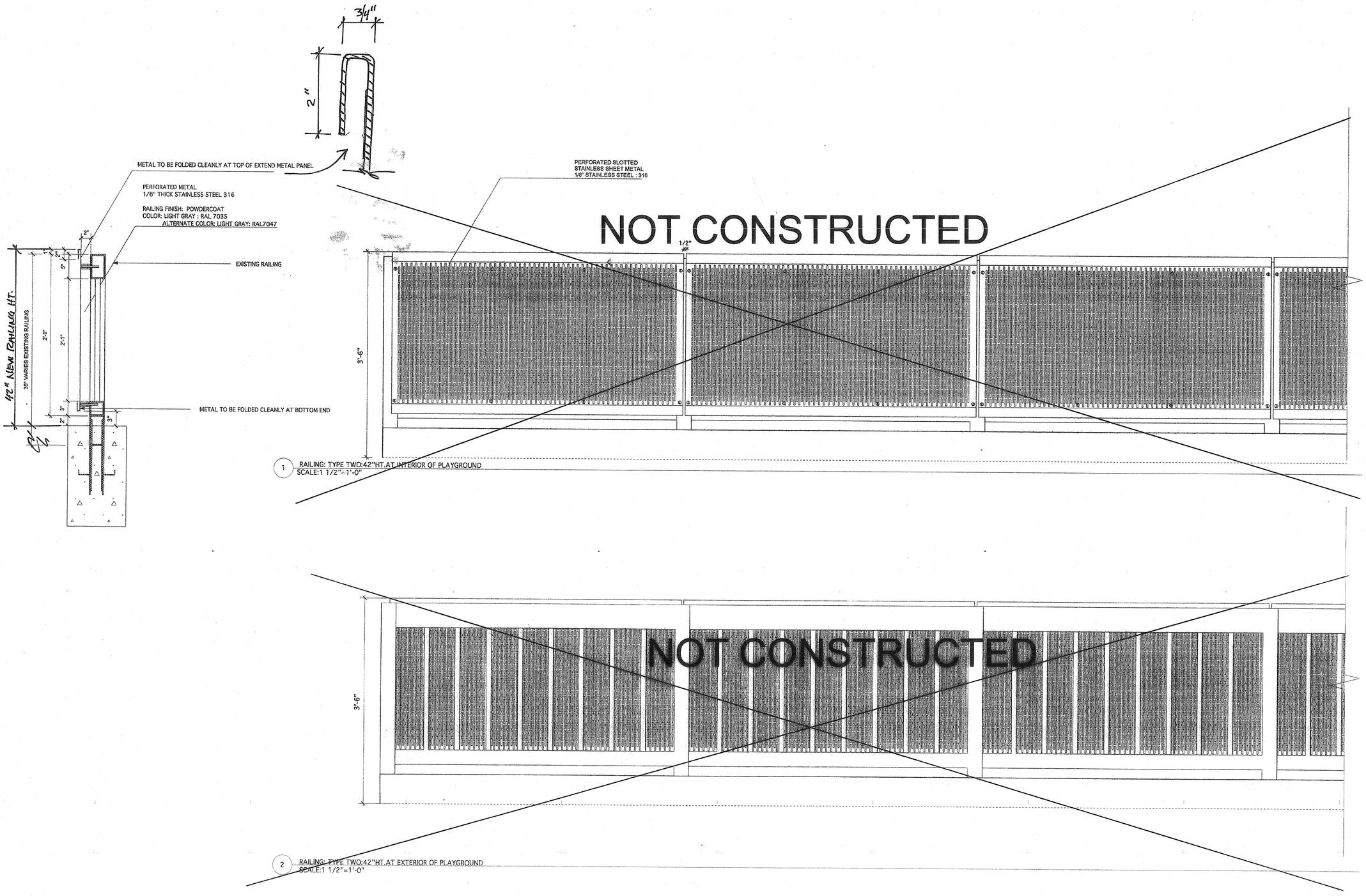
42" NEW RAILING DETAILS

RECORD DRAWING
THESE DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS AND TO THE BEST OF OUR KNOWLEDGE REPRESENT CONDITIONS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND / OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED HEREIN AS A RESULT.

Project No.	7530024
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/2/2004

L 9.10

NOTE:
1) CONTRACTOR SHALL MEASURE IN FIELD THE VARIOUS CONDITIONS OF THE EXISTING RAILING TO BE MODIFIED.
2) CONTRACTOR TO SUBMIT SHOP DRAWINGS OF THE RAILING IN THE VARIOUS CONDITIONS FOR APPROVAL BY LANDSCAPE ARCHITECT.
3) CONTRACTOR TO PROVIDE A MOCK UP ONE MODULE FOR APPROVAL BY LANDSCAPE ARCHITECT.
4) CONTRACTOR SHALL ALSO SUBMIT SAMPLE A 18" X 18" PERFORATED SAMPLE THAT ALSO INCLUDES THE FOLDED TIP AND BOTTOM EDGE CONDITION FOR APPROVAL BY LANDSCAPE ARCHITECT.



ENGINEER & LANDSCAPE ARCHITECT
Dufresne-Henry
151 St. Paul St.
Rochester, New York, 14604
585-454-2080

LANDSCAPE ARCHITECT
Ken Smith Landscape Archi
79 Chambers St.
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PLAYGROUND DESIGN
Sonic Architecture
P.O. Box 20873
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212-982-1743

ARCHITECT
Barkstrom & Lacroix
50 Chestnut St.
Rochester, New York, 14604
585-262-9914

RINK CONSULTANT
North American Ice
876 Grove Avenue
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585-262-9914

Rev.	Description	By	Date
1	RECORD DRAWINGS ADDENDA SET 1	AAB	4.16.10 04.29.05

Manhattan Square Park

42" HT. RAILING

Project No.	7920024
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	04/28/05

L
9.10A

Sheet 25 of 38
E1 msp

RECORD DRAWING

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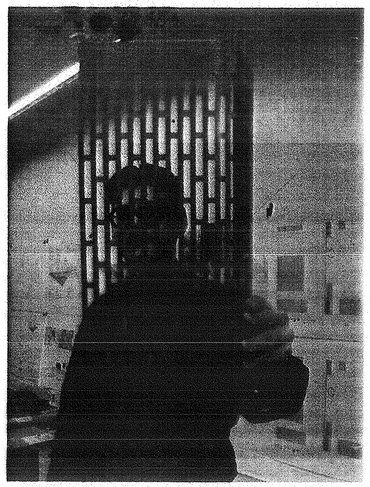
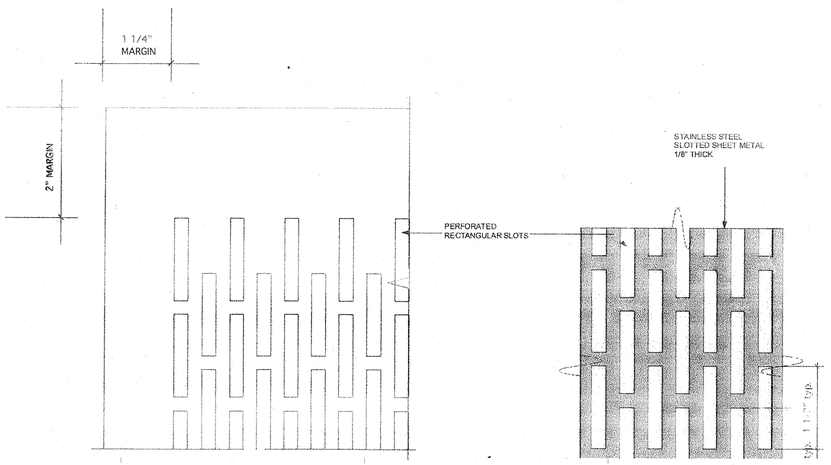
SAMPLE OF 1/8" STAINLESS STEEL SHEET METAL WITH FOLDED END

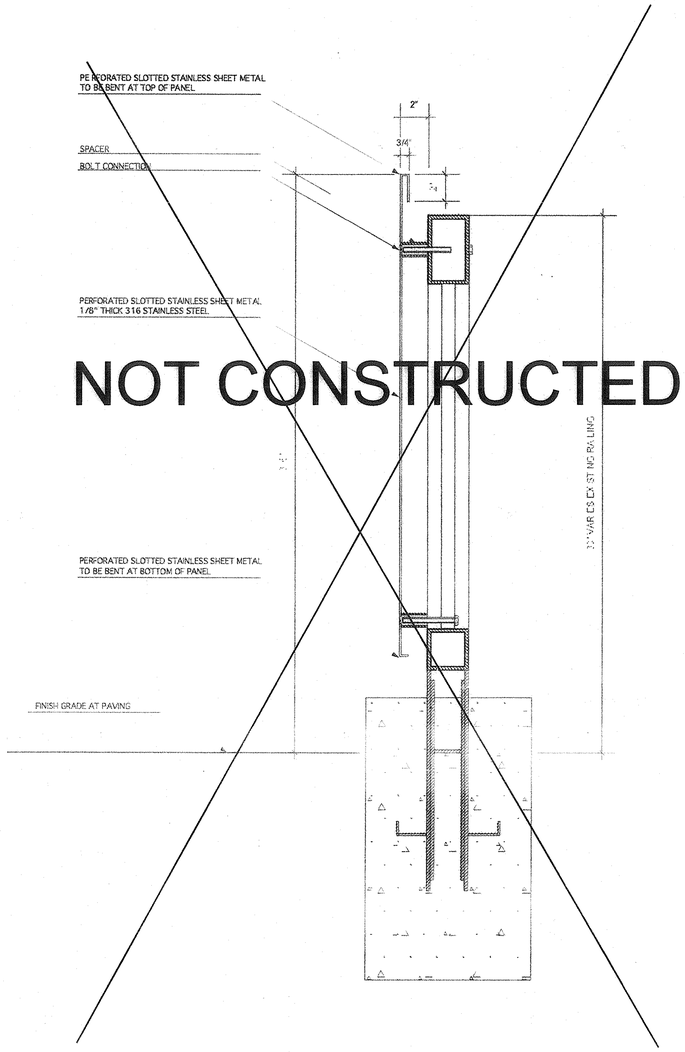


PERFORATED SLOTTED STAINLESS STEEL SHEET METAL

1 PHOTO OF STAINLESS STEEL SHEET METAL SAMPLES
NOT TO SCALE



2 PERFORATION PATTERN LAYOUT
SCALE: 1 : 1



NOT CONSTRUCTED

3 42" HEIGHT RAILING PANEL SECTION
SCALE: 3" = 1'-0"

RECORD DRAWING

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ENGINEER & LANDSCAPE ARCHITECT
Dufresne-Henry
151 St. Paul St.
Rochester, New York, 14604
585-454-2080

LANDSCAPE ARCHITECT
Ken Smith Landscape Architect
79 Chambers St.
New York, New York, 10007
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PLAYGROUND DESIGN
Sonic Architecture
P.O. Box 20873
New York, New York, 10009
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Rochester, New York, 14604
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RINK CONSULTANT
North American Ice
876 Grove Avenue
Burnaby, B.C., Canada
585-262-9914

Rev.	Description	By	Date
1	RECORD DRAWINGS ADDENDUM 1	AAB	4.16.10

Manhattan Square Park

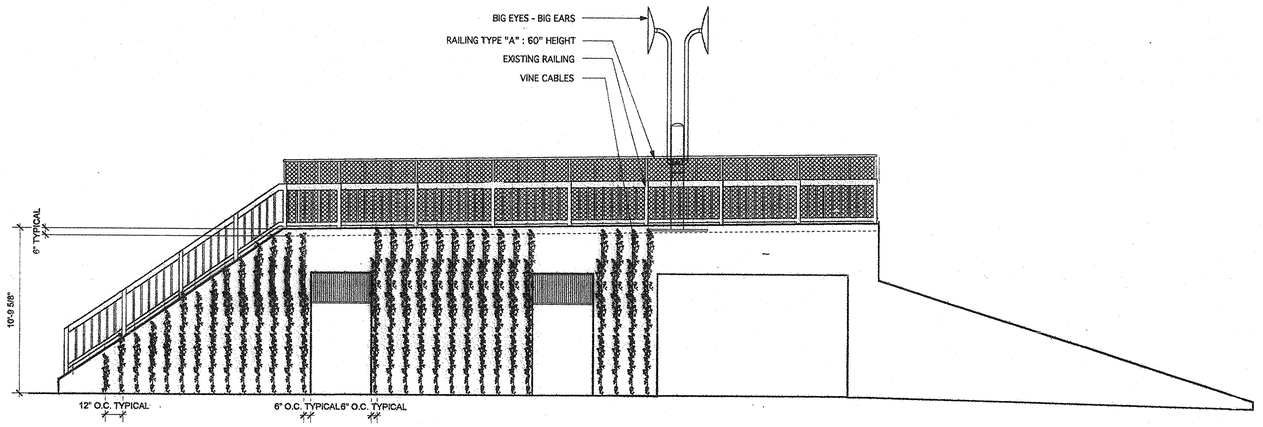
TYPE TWO: 42" HT. RAILING DETAILS

Project No.	1308004
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H. / T.DOWN
Status	D.A.H.
Approved	
Date	04/26/05

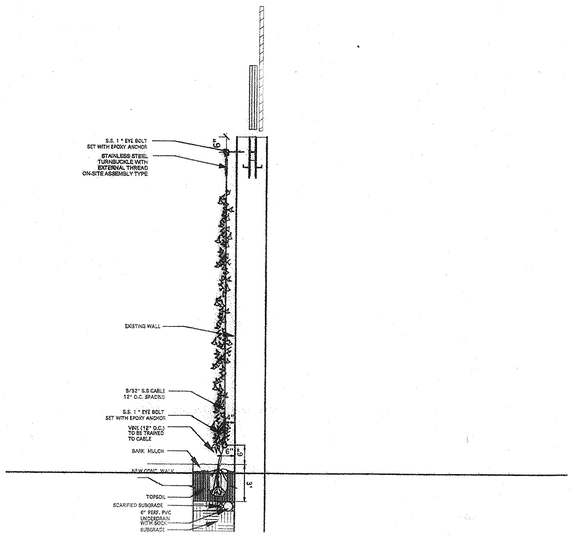
L 9.11

Sheet 26 of 38

E1 msp



1 Elevation at Vine Cable Wall
Scale : 1/4" = 1' - 0"



VINE PLANTING DETAIL
NOT TO SCALE

2 Vine Cable Detail
Scale : 1/2" = 1' - 0"

NOTE:

1) Contractor to submit shop drawings of cable assembly for approval by Landscape Architect

2) Contractor shall layout the vine cable with non permanent markings on the wall for layout adjustments and approval by Landscape Architect.

3) Contractor shall mock-up two cable vines for approval by Landscape Architect. If the mock-up is approved, the mock-up may become part of the final installation.

4) Contractor to submit the vine cable assembly for review and approval by Landscape Architect. The vine cable asssembly includes:
- 3/32" diameter Stainless Steel Cable at 12" length
- Stainless Steel Turnbuckle
- Stainless Steel Eyebolt

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PLAYGROUND DESIGN
Sonic Architecture
P.O. Box 20873
New York, New York, 10009
212-982-1743

ARCHITECT
Barkstrom & Lacroix
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585-262-9914

RINK CONSULTANT
North American Ice
876 Grove Avenue
Burnaby, B.C., Canada
585-262-9914

Rev.	Description	By	Date
1	RECORD DRAWINGS ADDENDA SET 1	AAB	4.16.10
			04.28.05

Manhattan Square Park
VINE CABLES

Project No.	7250/04
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/23/04

RECORD DRAWING
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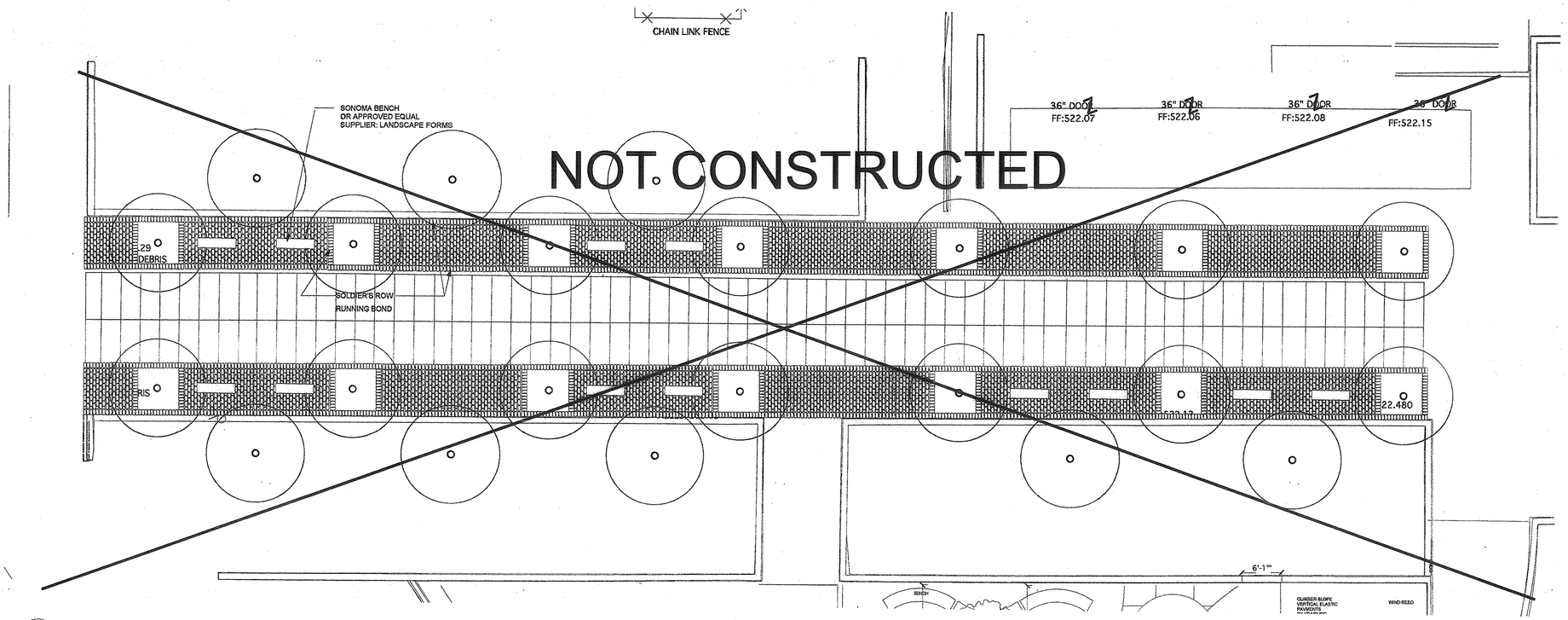
L 9.12



1 Cobblestone Layout at Allee
Scale : 1/8" = 1' - 0"

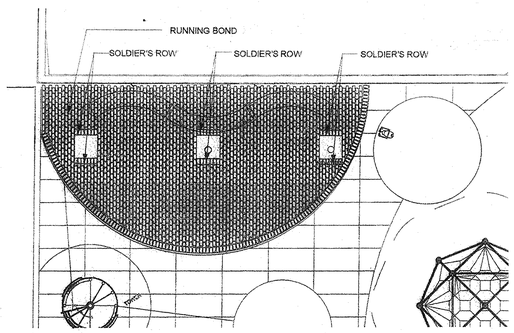
NOTE:
1) COBBLESTONES SHALL CONSIST OF A MIX OF:

33.33%	GRANITE:	CARNELIAN
	FINISH:	THERMAL
33.33%	GRANITE:	CHARCOAL BLACK
	FINISH:	THERMAL
33.33%	GRANITE:	RAINBOW
	FINISH:	THERMAL

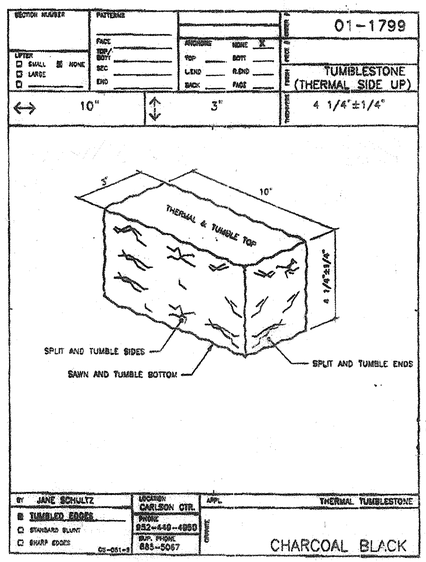
SUPPLIER: COLD SPRINGS GRANITE
CONTACT: RANDY HUBER
1 800 551 7502
OR APPROVED EQUAL

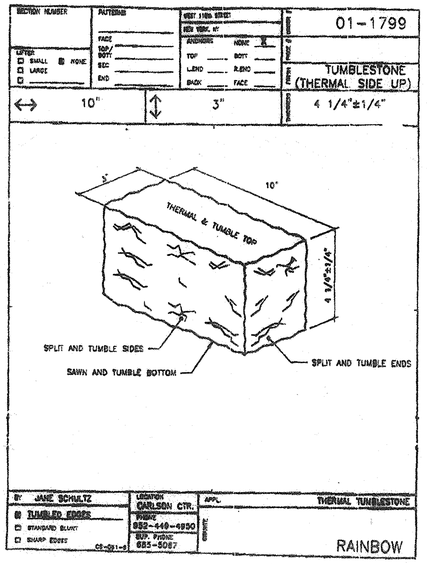
2) CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW BY LANDSCAPE ARCHITECT

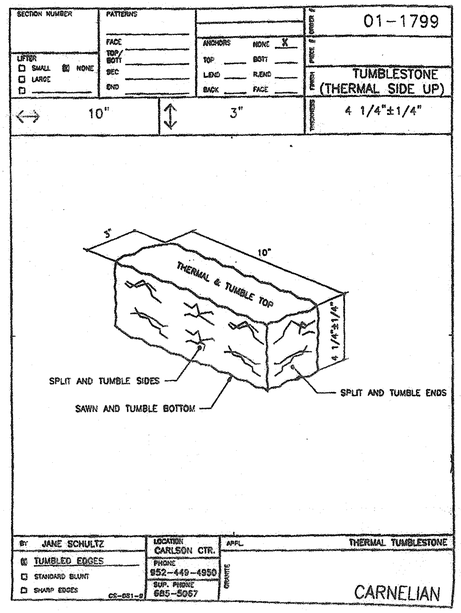
3) CONTRACTOR TO MOCK-UP A 6' X 6' AREA OF COBBLESTONE FOR REVIEW BY LANDSCAPE ARCHITECT. IF APPROVED, MOCK-UP MAY BECOME PART OF FINAL INSTALLATION.



2 Cobblestone Layout at Half Circle
Scale: 1/8" = 1' - 0"







3 Cobblestone Detail
Not To Scale

ENGINEER & LANDSCAPE ARCHITECT
Dufresne-Henry
151 St. Paul St.
Rochester, New York, 14604
585-454-2060

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PLAYGROUND DESIGN
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212-982-1743

ARCHITECT
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585-262-9914

RINK CONSULTANT
North American Ice
576 Grove Avenue
Burnaby, B.C., Canada
585-262-9914

Rev.	Description	By	Date
1	RECORD DRAWINGS	AAB	4.16.10
	ADDENDA SET 1		04.26.05

Manhattan Square Park

COBBLESTONE LAYOUT AT ALLEE AND AT HALF CIRCLE

Project No.	7530024
Proj. Manager	D.A.H
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	10/2004

L 9.13

Sheet 28 of 38
msp

RECORD DRAWING

THESE DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS AND TO THE BEST OF OUR KNOWLEDGE REPRESENT CONDITIONS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND / OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED HEREIN AS A RESULT.

SEE UPDATES TO
L 4.0 AND L 4.1

PROPOSED AREA DRAIN (TYP.)

REPUTED LOCATION OF VALVE BOX

CONNECT TO EXISTING 1" WATER SERVICE

ACTIVATOR BOLLARD

PROPOSED HEAVY DUTY PERFORATED PVC UNDERDRAIN WITH SOCK (TYP.)

PROPOSED 4" SCH 80 PVC (TYP.)

CONNECT FIBAR SYSTEM TO UNDERDRAIN

CONTROLLER: BY VORTEX

1" BALL VALVE

THREADED CAP (FOR BLOW-OFF)

PRESSURE REDUCING VALVE

ELECTRICALLY ACTIVATED VALVE

1" MAIN

1" TO CATTAIL

EXISTING FLOOR

VALVE DETAIL

N.T.S.

CONNECT FIBAR SYSTEM TO UNDERDRAIN

PROPOSED 1" YARD HYDRANT LOCATED IN FLUSH MTD. 12"x12" LOCKABLE VALVE BOX

CONNECT TO EXISTING STORM SEWER

INSTALL NEW C.O. UNDER COBBLESTONES

SPRAY EQUIP. VALVES (SEE DETAIL)

CURB STOP

DOMESTIC COLD WATER SERVICE TO HOSE BIB TO REMAIN

EXIST. FLOOR DRAIN IN UTILITY AND STORAGE SPACE BELOW TO REMAIN

LIMITS OF ALTERNATE BID NO. ONE
(NOT CONSTRUCTED)

PROPOSED 6" HEAVY DUTY PERFORATED PVC UNDERDRAIN WITH SOCK (TYP.)

PROPOSED 4" SCH 80 PVC FOR TELEPHONE TUBE (TYP.)

PROPOSED PVC AREA DRAIN (TYP.)

PROPOSED 1" COPPER WATER SERV. TO CAT TAIL

ACTIVATOR BOLLARD

PROPOSED 6" PERFORATED HEAVY DUTY PVC UNDERDRAIN WITH SOCK (TYP.)

RECONNECT ALL EXISTING UNDERDRAIN (TYP. ALL INLETS)

PROPOSED 4" SCH 80 PVC FOR TELEPHONE TUBE (TYP.)

NEW 8" STORM SEWER @ 1% SLOPE MIN.

PROPOSED 1" YARD HYDRANT LOCATED IN FLUSH MTD. 12"x12" LOCKABLE VALVE BOX

CONTRACTOR TO LOCATE EXISTING 8" STORM SEWER & SEWER ELEVATION AND NOTIFY THE RPR

CONNECT TO EXISTING 8" STORM

PROPOSED HEAVY DUTY PERFORATED PVC UNDERDRAIN WITH SOCK (TYP.)

CONTRACTOR TO LOCATE AND CONFIRM INVERT AND CONNECTION OF EXISTING UNDERDRAIN

INSTALL CLEAN OUT AT JUNCTION TO ALLOW FOR CLEANING

LIMITS OF BASE BID

NOTE:

CONTRACTOR TO REFER TO THE ELECTRICAL PLANS FOR INFORMATION FOR ACTIVATOR BOLLARDS, VALVES AND AND SPRAY CONTROLLER

RECORD DRAWING

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RINK CONSULTANT
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Burnaby, B.C., Canada
604-291-9980

Rev.	Description	By	Date
1	RECORD DRAWINGS	AAB	4.16.10

Manhattan Square Park
Phase One Rennovations

UTILITY PLAN

Project No.	7530024
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	1/8" = 1'
Approved	D.A.H.
Date	12/23/04

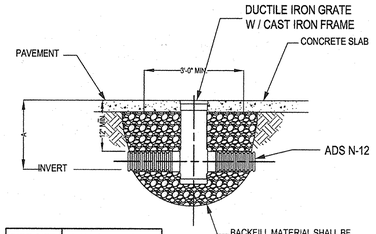
U 10.0

Sheet 29 of 38

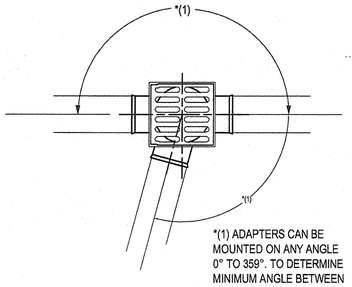
E1 msp

I:\u_0760\00008\Cons\U 10\Conformed Dwg Set\Electrical dwg set 9-19-05\Record Drawings\U4.0 & L5.0 & U10.0.dwg
2010-04-09 11:55 AM By Barbara Kennedy

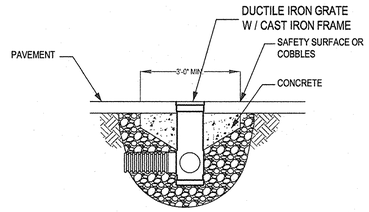
ORIGINAL SHEET – 30 X 42

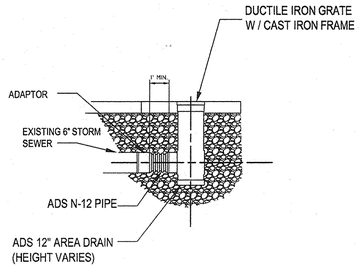


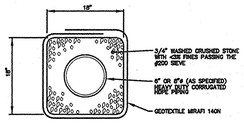
PIPE SIZE	A (ADS N-12 PIPE)
12"	26.00"
15"	29.00"



*(1) ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 359°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS CONTACT ADS

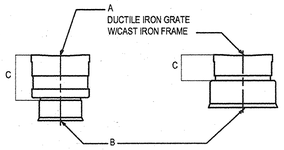






INFILTRATION TRENCH DETAIL

N.T.S.

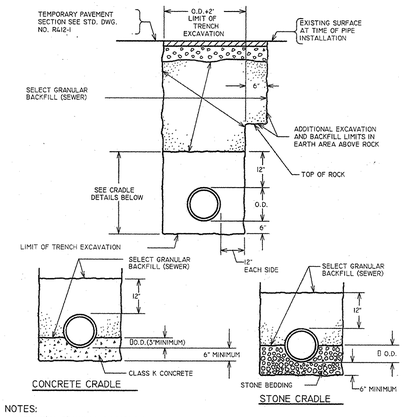


VARIOUS TYPES OF OUTLETS WITH WATERTIGHT ADAPTERS FOR ADS N-12 AND CORRUGATED PVC

A	B	C
12"	4"	10.50
12"	6"	11.50
12"	8"	11.50
12"	10"	11.25
12"	12"	6.00

12" AREA DRAIN BASIN

N.T.S.

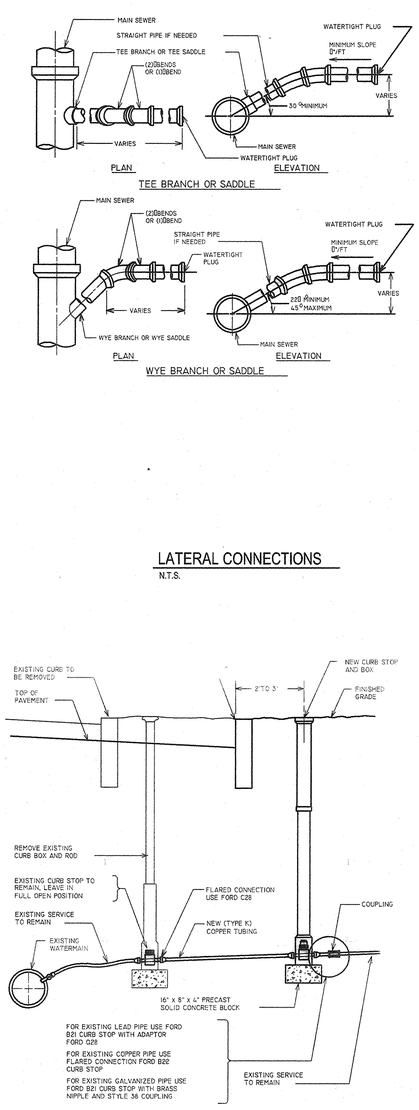


NOTES:

1. LIMITS SHOWN ARE MAXIMUM ALLOWED AND MINIMUM REQUIRED FOR EXCAVATION AND BACKFILL.
2. UPPER PAY LIMITS FOR TRENCH EXCAVATION IS TOP OF EXISTING SURFACE, AT TIME OF TRENCH EXCAVATION.
3. UPPER PAY LIMITS FOR ROCK EXCAVATION IS TOP SURFACE OF ROCK.
   - UPPER PAY LIMIT FOR SELECT GRANULAR BACKFILL (SEWER) OF TEMPORARY PAVEMENT OF USED, OR FINISHED SURFACE IF SELECT GRANULAR BACKFILL (SEWER) IS PLACED UP TO FINISHED SURFACE AS NOTED ON THE DRAWINGS.
5. TEMPORARY OR PERMANENT BLOCKS OR ANY OTHER TYPE OF PIPE SUPPORT IS NOT TO BE USED DURING PIPE INSTALLATION.

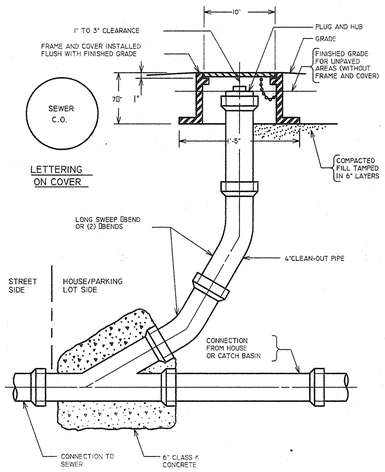
SEWER LATERAL TRENCH

N.T.S.



LATERAL CONNECTIONS

N.T.S.



NOTE:

1. CLEAN-OUT SHALL BE INSTALLED EVERY 75' MAXIMUM AND AT RIGHT-OF-WAY LINE.
2. FRAME AND COVER TO BE USED IN PAVEMENT AREAS ONLY

CLEAN OUT

N.T.S.

NOTES

1. WHEN LOCATED IN PAVEMENT, TAP IS TO BE KEPT BELOW GROUND SURFACE EXCEPT WHEN IN USE. UPON NOTIFICATION OF ACCEPTABLE SAMPLES RESULTS, CORPORATION STOP IS TO BE CLOSED, AND TAP AND TUBING DISCONNECTED.
2. TAP MAY BE LOCATED AT THE SAME LOCATION OF A NEW WATER SERVICE. AFTER SAMPLE IS APPROVED, COPPER TUBING TO THE SURFACE IS TO BE REMOVED.
3. LOCATION OF TAP IS SUBJECT TO PRIOR APPROVAL OF THE CITY OF ROCHESTER AND MONROE COUNTY HEALTH DEPARTMENT.
4. MAXIMUM DISTANCE BETWEEN DISINFECTION/SAMPLING TAPS ON NEW WATER MAIN INSTALLATION IS 1000 FEET.

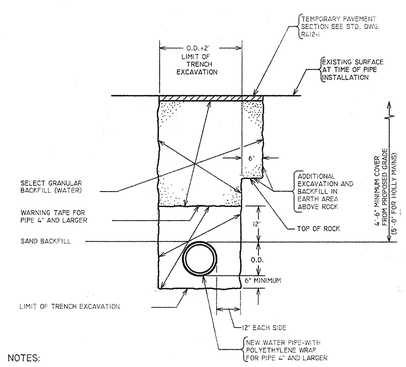
DISINFECTION SAMPLING TAP

N.T.S.

NOTE:
ADD A CURB BOX ARCH BASE TO CURB BOX FOR SERVICES LARGER THAN 1 INCH.

WATER SERVICE EXTENSION

N.T.S.



NOTES:

1. LIMITS SHOWN ARE MAXIMUM ALLOWED AND MINIMUM REQUIRED FOR EXCAVATION AND BACKFILL.
2. UPPER LIMIT FOR TRENCH EXCAVATION IS TOP OF EXISTING SURFACE, AT TIME OF TRENCH EXCAVATION.
3. UPPER LIMIT FOR ROCK EXCAVATION IS TOP SURFACE OF ROCK.
4. UPPER LIMIT FOR SELECT GRANULAR BACKFILL (WATER) IS BOTTOM OF TEMPORARY PAVEMENT OF USED), OR TOP OF SURFACE - AS NOTED ON THE PLANS.
5. TEMPORARY OR PERMANENT BLOCKS OR ANY OTHER TYPE OF PIPE SUPPORT IS NOT TO BE USED DURING PIPE INSTALLATION.

WATER TRENCH PAVEMENT RECONSTRUCTION

N.T.S.

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904-291-9980

Rev.	Description	By	Date
1	RECORD DRAWINGS	AAB	4.15.10

Manhattan Square Park
Phase One Rennovations

UTILITY DETAILS

Project No.	7530024
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	1/22/04

RECORD DRAWING

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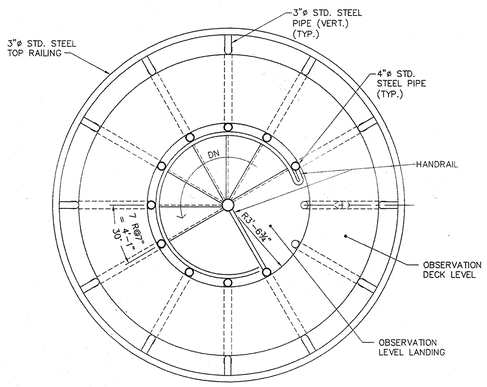
U 10.1

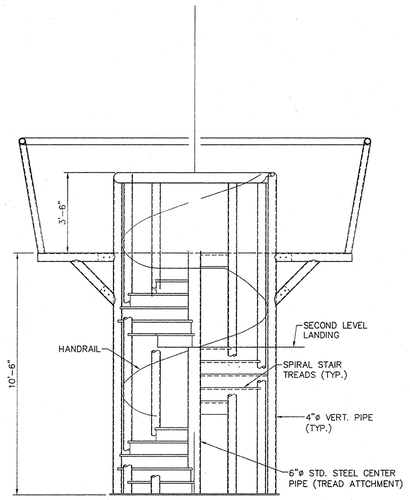
Sheet 30 of 38

E1 msp

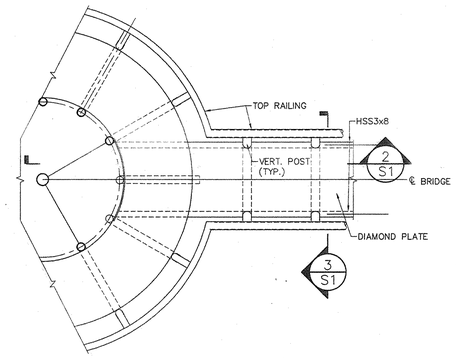
G:\2105\0098\Cad\U 10.1 Conformed Dwg Set\Electrical dwg set 9-19-05\Record Drawings\U 10.1.dwg
2010-04-19 12:43 PM By:Button, Amanda



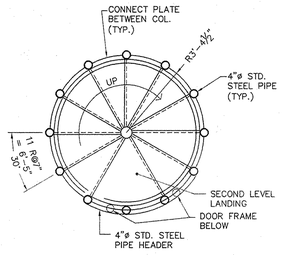
OBSERVATION DECK PLAN
3/8" = 1'-0"



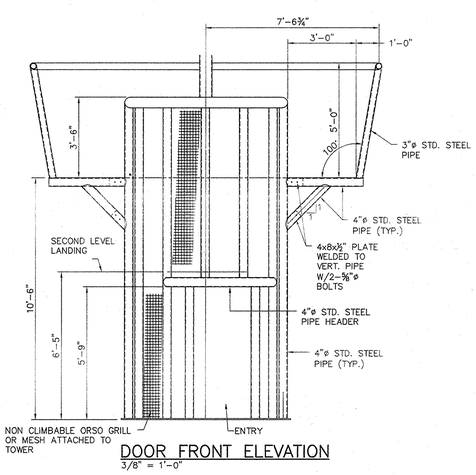
SPIRAL STAIR ELEVATION
3/8" = 1'-0"



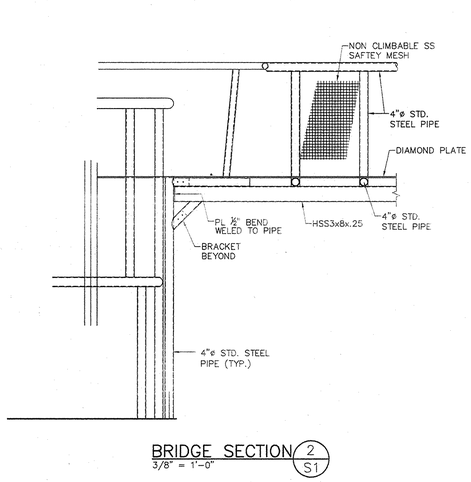
PART PLAN/DECK AND BRIDGE
3/8" = 1'-0"



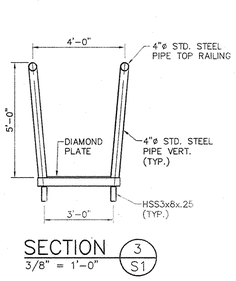
SECOND LEVEL PLAN
3/8" = 1'-0"



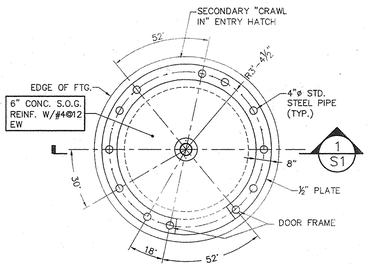
DOOR FRONT ELEVATION
3/8" = 1'-0"



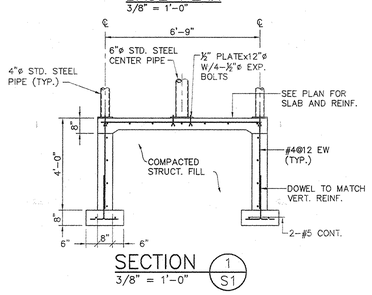
BRIDGE SECTION 2/S1
3/8" = 1'-0"



SECTION 3/S1
3/8" = 1'-0"



BASE PLAN
3/8" = 1'-0"



SECTION 1/S1
3/8" = 1'-0"

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RINK CONSULTANT
North American Ice
xxxx
Vancouver B.C., Canada
585-262-9914

Rev.	Description	By	Date
1	RECORD DRAWINGS	AAB	4.16.10

Manhattan Square Park
Phase One Renovations

TOWER DETAILS

Project No.	7S30204
Proj. Manager	D.A.H
Proj. Designer	G.V.
Drawn By	G.V.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/22/04

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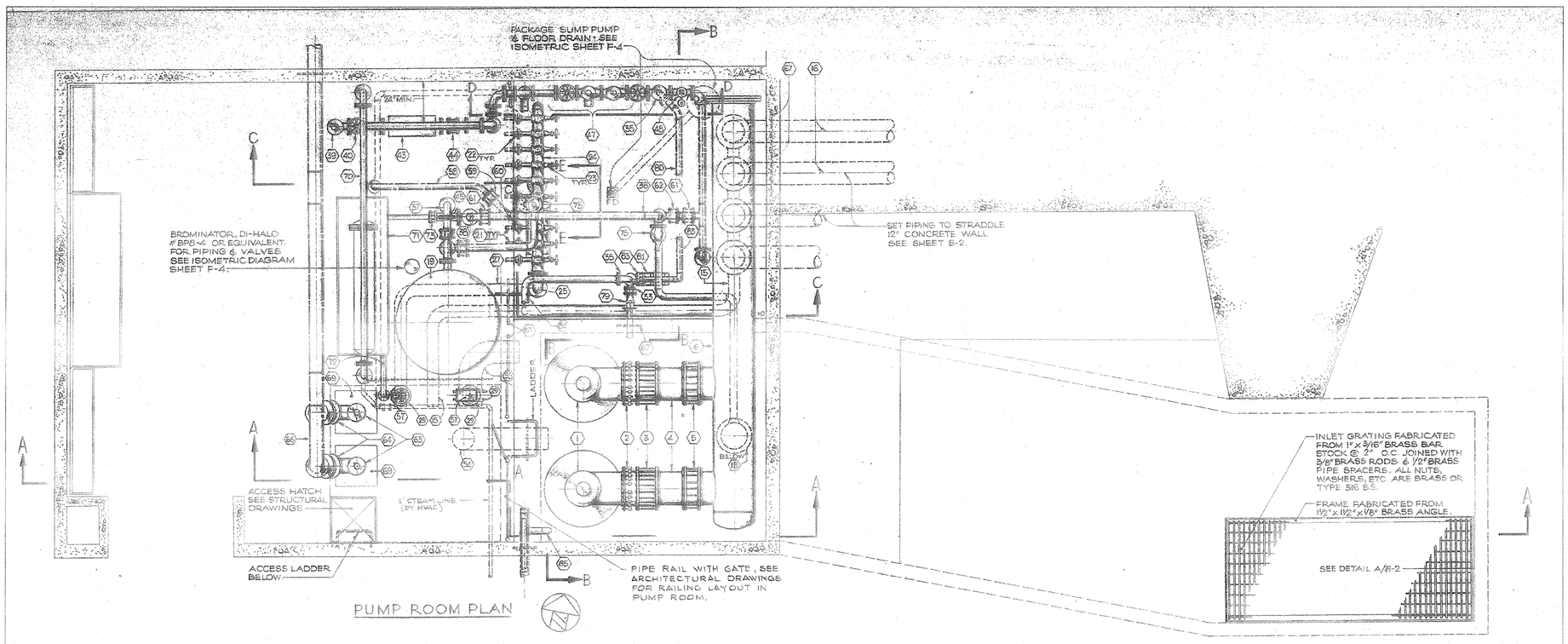
S 11.0

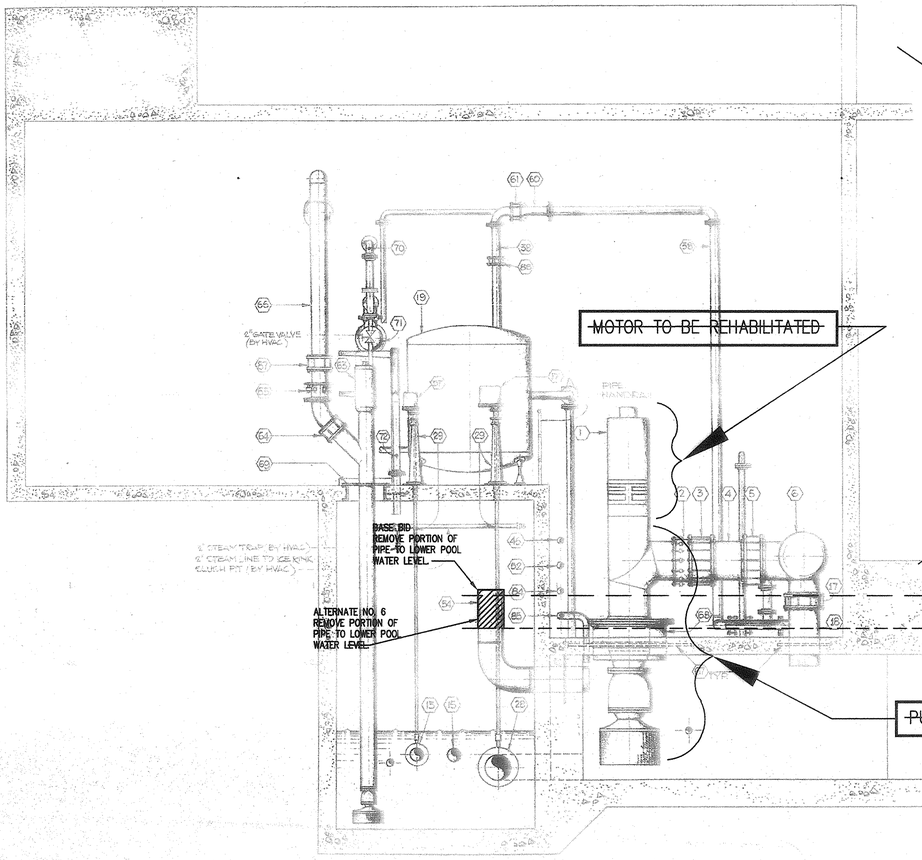
Sheet 31 of 38

E1 msp

I:\2105\10008\Cad\9.1.05 Conformed Dwg Set\Electrical dwg set 9-19-05\Record Drawings\S11 (STRUCTURAL).dwg
2010-04-19 12:45 PM By:Ashton, Amanda
ORGINAL SHEET - 30 X 42



NOT COMPLETED - (PUMP WAS TOO CORRODED)



125 HP PUMP AND MOTOR REHABILITATION

GENERAL: THE CONTRACTOR SHALL REMOVE AND REHABILITATE ONE OF THE EXISTING 125 HORSE POWER MAIN RECIRCULATING PUMPS. THE ORIGINAL CONSTRUCTION DRAWINGS FOR THE PROJECT CONTAINED THE FOLLOWING INFORMATION:

"10,000 GPM @40 FEET TDH, 125 HP, 1175 RPM, 460 V. MOTOR, LAYNE & BOWLER # 18LM 20 OR EQUIVALENT." THE CONTRACTOR SHALL CONFIRM THE PUMP AND MOTOR NAME PLATE INFORMATION IN THE FIELD. SHOP DRAWINGS WERE NOT AVAILABLE FOR THIS PUMP / MOTOR COMBINATION.

TASKS REQUIRED:

1. VISIT PUMP ROOM WITH THE CITY REPRESENTATIVES AND THE RPR TO DISCUSS OPTIONS FOR REMOVING THE PUMP / MOTOR COMBINATION.
2. DETERMINE METHOD AND PATHWAY TO REMOVE THE PUMP/MOTOR. THIS MAY INVOLVE REMOVAL OF SOME UNUSED OR TEMPORARY REMOVAL (AND SUBSEQUENT REPLACEMENT) OF IN-USE EQUIPMENT. REVIEW THE AVAILABLE FLOOR SPACE FOR POSSIBLE PUMP RENOVATION IN THE PUMP ROOM.
3. REVIEW CONDITION OF EXISTING CEILING TRACK SYSTEM AND DETERMINE IF SUITABLE FOR USE IN PUMP REHABILITATION EFFORTS.
4. REMOVE THE PUMP FOR REHABILITATION IN THE PUMP ROOM OR IN A SHOP.
5. REMOVE THE MOTOR FOR REHABILITATION IN A SHOP.
6. INCLUDE THE FOLLOWING ITEMS IN THE REHABILITATION WORK FOR THE MOTOR:

   DISASSEMBLE, CLEAN AND INSPECT ALL PARTS
   MEGGAR TEST
   SURGE TEST WINDINGS
   MEASURE END BELLS AND SHAFT
   WASH AND BAKE STATOR AND ROTOR
   RE-INSULATE WINDINGS
   FURNISH AND INSTALL NEW BEARINGS
   REASSEMBLE, RUN TEST AND PAINT
   REINSTALL ON PUMP AND TEST

7. THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE REHABILITATION OF THE PUMP:

   DISASSEMBLE, CLEAN AND INSPECT ALL PARTS
   MEASURE, ROTATE AND INSPECT SHAFT
   INSPECT BEARINGS FOR WEAR AND UNEVEN SURFACES
   FURNISH AND INSTALL NEW BEARINGS IF REQUIRED
   POWER BRUSH CLEAN THE IMPELLOR AND ALL INTERNAL SURFACES.
   REPLACE SEALS
   PAINT EXTERIOR
   REASSEMBLE
   RECONNECT TO MOTOR AND REINSTALL

8. THE PUMPS SHALL THEN BE TESTED IN THE PRESENCE OF THE CITY WITH FULL WATER OPERATION.

6 cont. The motors are 125 HP, 1180 RPM, B445TP20 frame, mdl# 5K6786XH6A, vertical motors, Ser. # DKJ410126.

7 cont. The pumps are Aurora, model V73-06551 operating at 10,000 gpm @40ft.

9. The contractor shall prepare and submit an assessment of both the motor and pump with recommendations for any additional components to be replaced other than those required in notes 6 and 7. The City will then decide which additional components (if any) will be replaced.,

1

BASE BID WATER LEVEL
BASE BID INSTALL GRATING 2" – 6" BELOW NEW WATER LEVEL
ALTERNATE NO. 6 APPROXIMATE WATER LEVEL

VACUUM BROKEN GLASS AND DEBRIS FROM THE FLOOR OF THIS CHAMBER (WITH A VACUUM TRUCK) WITHOUT ENTERING THE CHAMBER. (THE CHAMBER IS LIKLEY CLASSIFIED AS A "CONFINED SPACE")

RECORD DRAWING

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604-291-9980

Rev.	Description	By	Date
1	PER ADDENDUM 2 DATED 5/9/05	SRP	9/1/05
2	RECORD DRAWINGS	AAB	4.16.10

Manhattan Square Park
Phase One Rennovations

PUMP REHABILITATION

Project No.	753002A
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	NOT TO SCALE
Approved	D.A.H.
Date	12/23/04

F 12.0

Sheet 32 of 38

E1 msp

\\DJ\2105\0008\Cadd\9.1.05 Conformed Dwg Set\Electrical dwg set 9-19-05\Record Drawings\F 12.0 (PUMP).dwg
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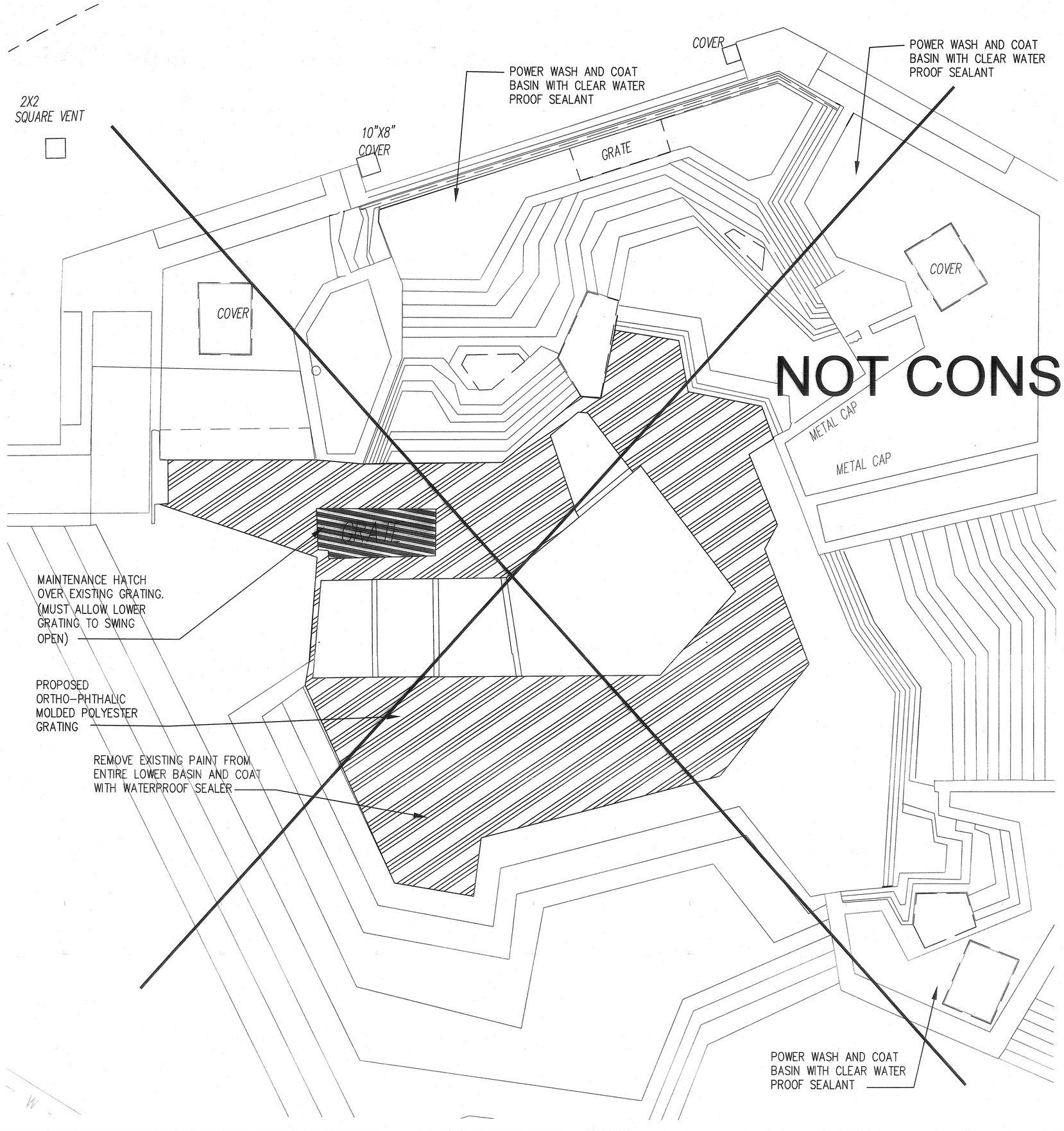

NOT CONSTRUCTED

NOTES:

1. FINAL GRATING TO BE CHOSEN AFTER THE PUMP OPERATING WATER LEVEL IS OBSERVED. THE GOAL IS TO HAVE APPROXIMATELY 2" TO 4" OF STANDING WATER OVER THE GRATE DURING FOUNTAIN OPERATION.

2. GRATING IS TO BE GENERAL PURPOSE ORTHO-PHTHALIC MOLDED POLYESTER RESIN FIBERGLASS. COLOR TO BE GRAY WITH AN ANTI-SLIP SILICON CARBIDE GRITTED SURFACE

3 GRATING THICKNESS TO BE 1 1/2" WITH A 1 1/2" MESH.

4. GRATING PANELS SHALL BE SECURELY MOUNTED TO THE ADJACENT CONCRETE SURFACE AND ADJACENT PANELS. 316 STAINLESS STEEL HOLD DOWN CLIPS SHALL BE INSTALLED ALONG ALL PANEL EDGES.

5. GRATING SHALL BE AMERICAN GRATING LLC, OR APPROVED EQUAL. ~~DESIGNED FOR 50 P.S.I. LOADING.~~ SEE SPECIFICATION FOR LOADING.

ALTERNATE NO. 6: NO GRATING TO BE INSTALLED.
ADJUST WATER LEVEL IN LOWER BASIN TO BE 2" ABOVE BOTTOM.
SEE DRAWING F 12.0 FOR LOCATION OF PIPE TO REGULATE WATER LEVEL.

6. THE WATER PROOF SEALER SHALL BE UV RESISTANT & SHALL BE ENVIRONMENTALLY SAFE FOR USE IN FOUNTAINS.

1

RECORD DRAWING

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1	PER ADDENDUM 2	SRP	9-1-05	Date
2	RECORD DRAWINGS	AAB	4.16.10	By
				Description

Manhattan Square Park
Phase One Renovations

FOUNTAIN AREA GRATING

Project No.	7530024
Proj. Manager	D.A.H.
Proj. Designer	D.A.H.
Drawn By	C.A.C
Checked By	D.A.H.
Scale	1/4" = 1'
Approved	D.A.H.
Date	12/23/04

F 12.1

Sheet 33 of 38
E1 msp

STATE OF NEW YORK
LICENSED PROFESSIONAL ENGINEER
No. 61183
Licensed Professional Engineer

\\DUFRESNE-HENRY\Data\7530024 Manhattan Square Park\Phase One Renovations\Working Drawings\Conformed Dwg Set\Electrical dwg set 9-19-05\Record Drawings\F 12.1 (GRATING).dwg
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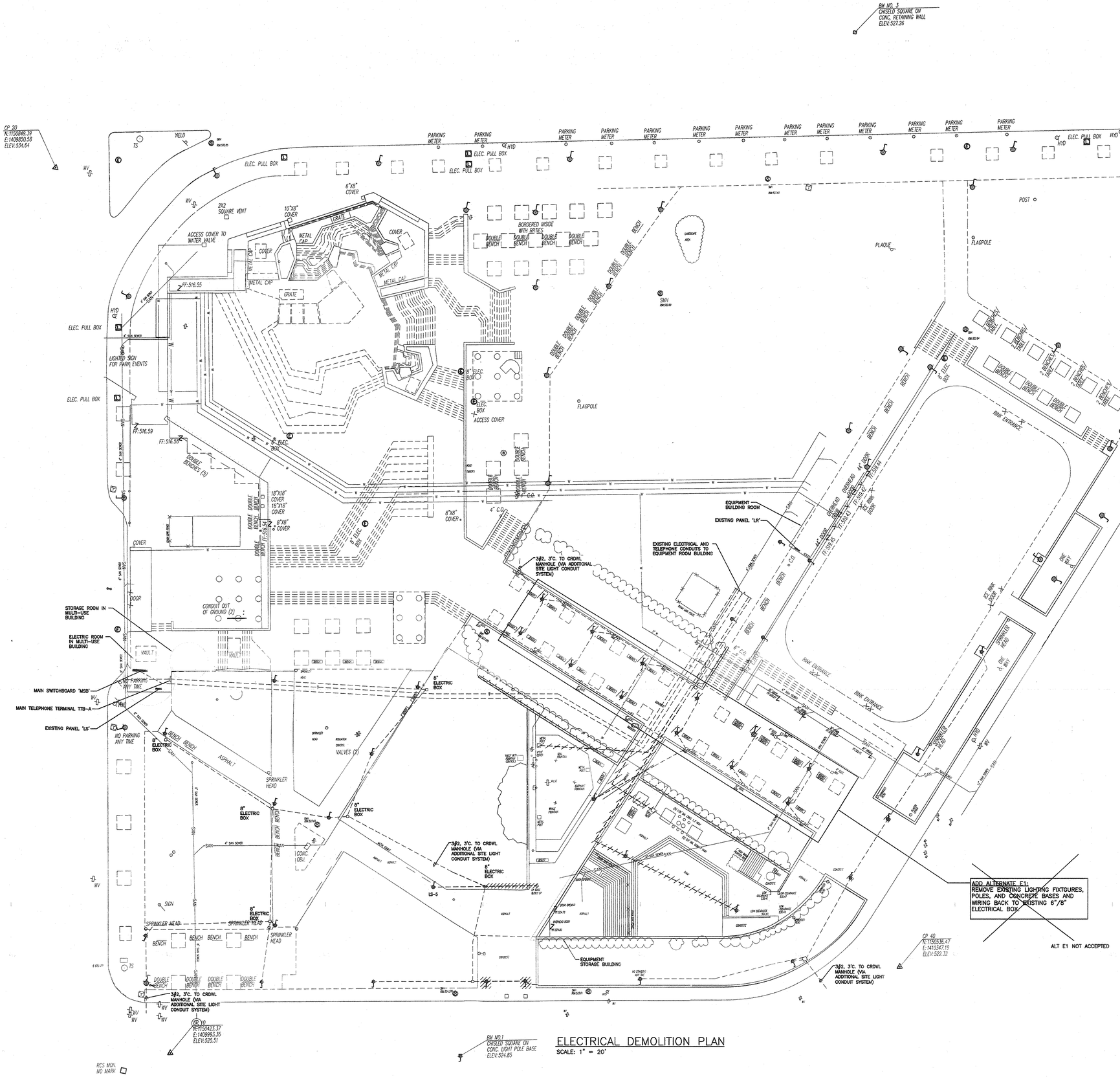

ELECTRICAL DEMOLITION PLAN

SCALE: 1" = 20'

PARTIAL DEMOLITION LEGEND:

- EXISTING LIGHTING FIXTURE AND POLE
- DENOTES LIGHTING FIXTURE TO BE REMOVED
- —EE— EXISTING UNDERGROUND ELECTRIC

DEMOLITION NOTES

D1 – REMOVE AND DISCONNECT ALL EXISTING ELECTRICAL EQUIPMENT WITHIN AREAS INDICATED, UNLESS OTHERWISE NOTED TO REMAIN, INCLUDING LIGHTING FIXTURES, EXPOSED CONDUIT, BRANCH CIRCUIT WIRING, SURFACE AND FLUSH BOXES, ETC. ALL EXPOSED ABANDONED CONDUCTORS AND CONDUITS SHALL BE REMOVED. WHERE COMPLETE REMOVAL IS NOT POSSIBLE REMOVE ALL WIRING FROM CONDUITS, CUT BACK, CAP AND ABANDON ALL CONDUITS AS REQUIRED. COORDINATE REMOVAL WITH ENGINEER.

D4 – EXISTING LIGHTING SHALL BE REMOVED AS INDICATED. EXISTING UNDERGROUND WIRE AND CONDUIT SHALL BE REMOVED. CONTRACTOR SHALL CARRY ALL COSTS RELATING TO THE REMOVAL AND DISPOSAL OF CONCRETE BASES, WIRING, AND ASSOCIATED MATERIALS. OWNER'S EXISTING LIGHT FIXTURES AND POLES SHALL BE TURNED OVER TO THE OWNER AND SHALL BE TRANSPORTED TO THE OWNER'S STORAGE SITE (MAXIMUM OF 10 MILES)

D3 – CONTRACTOR SHALL CARRY ALL COSTS RELATING TO REMOVAL AND LAWFUL DISPOSAL OF ELECTRICAL EQUIPMENT, LIGHTING FIXTURES, CONDUIT, WIRING AND ASSOCIATED DEVICES/HARDWARE. PRIOR TO ACTUAL REMOVAL OF ELECTRICAL EQUIPMENT, CONTRACTOR SHALL COORDINATE WITH OWNER FOR POSSIBLE SALVAGE OF ANY OF THE EQUIPMENT.

D4 – THE ELECTRICAL CONDUIT AND LIGHTING FIXTURES INDICATED ON THIS DRAWING REPRESENT EQUIPMENT TAKEN FROM EXISTING PLANS FURNISHED BY THE OWNER AND DO NOT REPRESENT ALL EQUIPMENT AND WIRING WITHIN THE DEMOLITION AREA. THIS DRAWING HAS BEEN PREPARED TO ASSIST THE CONTRACTOR IN PRICING DEMOLITION WORK. CONTRACTOR IS TO VISIT THE SITE AND EXAMINE ALL EXISTING CONDITIONS. NO EXTRA COMPENSATION OR TIME EXTENSION WILL BE PERMITTED BECAUSE OF LACK OF COMPLIANCE WITH THIS REQUIREMENT.

D5 – THE ELECTRICAL CONTRACTOR SHALL TAKE INTO ACCOUNT IN FILING THEIR BID, THE OBLIGATION TO PROVIDE FOR THE DISMANTLING AND REMOVAL, OR MODIFICATION, OF EXISTING ELECTRICAL EQUIPMENT, LIGHTING, CONDUIT, WIRING AND RELATED ITEMS FOR THEIR REPLACEMENT OR MODIFICATION AS HEREIN SPECIFIED OR AS MAY REASONABLY BE IMPLIED.

RECORD DRAWING

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Rev.	Description	By	Date
1	RECORD DRAWINGS	AAB	4.16.10

Manhattan Square Park
Phase One Rennovations

ELECTRICAL DEMOLITION PLAN

Project No.	7530024
Proj. Manager	D.A.H.
Proj. Designer	LAB
Drawn By	MLC
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/23/04

E1.0

Sheet 34 of 38

E1 msp

STATE OF NEW YORK
DANIEL A. HENRY
082186
LICENSED PROFESSIONAL ENGINEER

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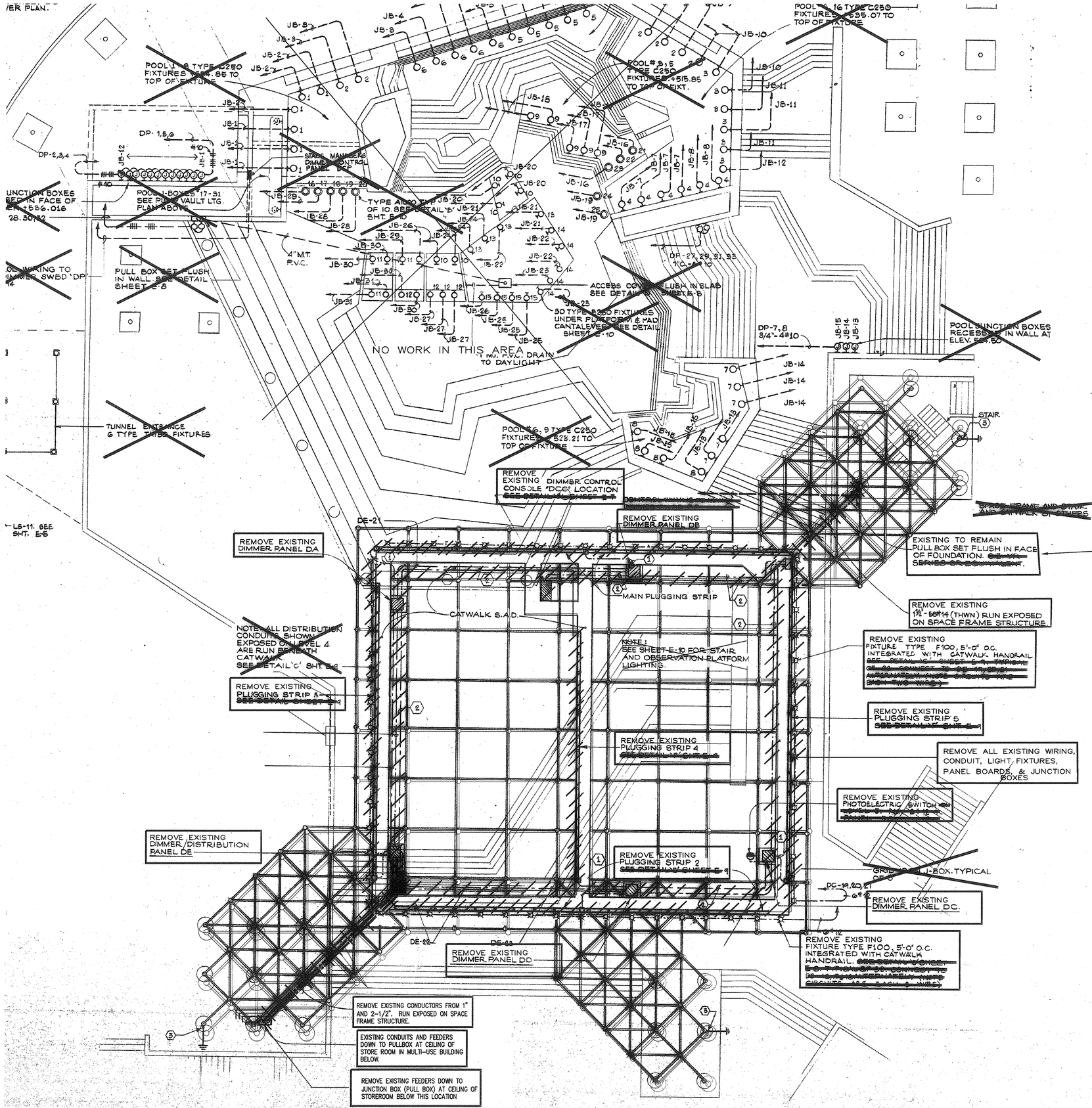

SPACEFRAME LIGHTING AND POWER ELECTRICAL DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. THIS DRAWING IS TAKEN FROM CONSTRUCTION DRAWINGS DATED 11/20/1972. THE INFORMATION IS NOT INTENDED TO BE COMPLETE OR ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GATHERING EXISTING CONDITIONS INFORMATION DURING HIS/HER SITE VISIT.

2. DEMOLITION NOTES ARE SHOWN IN BOXES. OTHER NOTES ARE FROM THE 1972 DRAWINGS AND MAY BE USED FOR INFORMATIONAL PURPOSES ONLY.

RECORD DRAWING

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Rev.	Description	By	Date
2.	RECORD DRAWINGS	AAB	4.16.10
1	ADDENDUM 2	LB	5/4/05

Manhattan Square Park
Phase One Renovations

SPACE FRAME LIGHTING & POWER DISTRIBUTION DEMOLITION PLAN

Project No.	7530024
Proj. Manager	D.A.H.
Proj. Designer	L.B.
Drawn By	M.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/23/04

E2.0

Sheet 35 of 38

E1 msp

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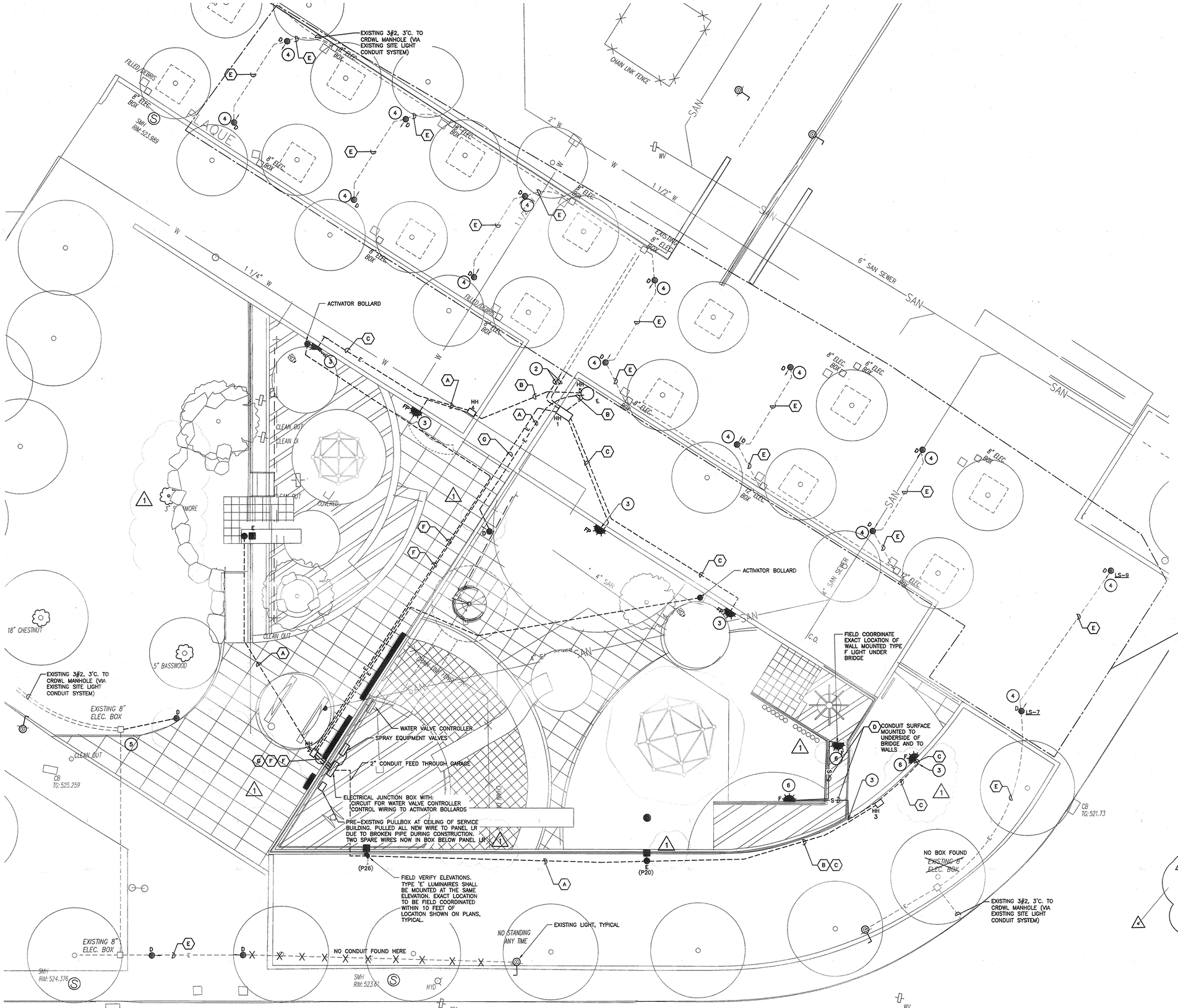
ORIGINAL SHEET - 30 X 42



ELECTRICAL AND SITE LEGEND:

- D — POLE MOUNTED WALKWAY LIGHT FIXTURE
- E — POLE MOUNTED AREA SITE LIGHT
- F/FP — WALL MOUNTED LIGHT FIXTURE
- HH — HANDHOLE
- E — UNDERGROUND ELECTRIC CONDUIT
- S — SURFACE MOUNTED CONDUIT
- EXISTING UNDERGROUND ELECTRICAL CONDUIT

CONDUIT & CONDUCTOR SCHEDULE

KEY	CONDUIT SIZE	CONDUCTORS	
		FOR SITE LIGHTS	FOR GROUND
A	2" PVC	2#2	1#6G
B	2" PVC	3#2	1#6G
C	1" PVC	2#6	1#6G
D	1" RGS	2#6	1#6G
E	3" PVC EXISTING	3#2	1#2G
F	1" PVC	2#6 (FOR ACTIVATER BOLLARDS)	1#6G
G	2" PVC	4#2 (FOR POWER)	1#6G
O	PULL CORD		

CONDUIT NOTES:

1. MAXIMUM OF 270° IN TOTAL BENDS PERMITTED IN SINGLE RUN OF CONDUIT.
2. POLE MOUNTED LIGHTS SHALL BE FUSED AT BASE WITH Y-TYPE FUSE KIT (EQUAL TO HOMAC [FLOOD SEAL]) FYC-6 AND 10 AMP FUSE.
3. CIRCUIT CONDUCTORS INCLUDING NEUTRAL CONDUCTOR SHALL BE CLEARLY IDENTIFIED BY CORROSION RESISTANT TAGS INDICATING CIRCUIT NUMBER AND PANEL SOURCE AT EVERY POLE BASE, BLUE LIGHT, JUNCTION BOX AND HANDHOLE.
4. UTILIZE APPROVED DUAL-RATED PARALLEL TAP CONNECTOR EQUAL TO ILSCO GTA SERIES WITH INSULATED COVER FOR TAPS AT POLE BASE, TYPICAL FOR LIGHTING AND BASE RECEPTACLE CONDUCTORS.

SITE NOTES:

1. CIRCUIT SITE LIGHTS ALTERNATELY ON A AND B PHASES OF EXISTING LIGHTING CIRCUITS.
2. STREET LIGHTING UTILITY: CITY OF ROCHESTER DEPARTMENT OF WATER AND LIGHTING (CRDWL)

KEYNOTES

1. EXTEND EXISTING CONDUIT TO HANDHOLE. REPLACE EXISTING CONDUCTORS FROM LAST SITE LIGHT POLE. PROVIDE NEW CONDUIT AND CONDUCTORS TO EXISTING/NEW SITE LIGHT LOCATIONS AS SHOWN.
2. INTERCEPT EXISTING CONDUITS (3", VERIFY) FROM PANEL 'LR' IN EQUIPMENT ROOM BUILDING (VERIFY) AND EXTEND TO HANDHOLE HH1. INSTALL (2) 120V CIRCUITS (2#2, 1#6G – EACH). ONE FOR WATER VALVE CONTROLLER, ONE SPARE.
3. CORE DRILL EXISTING WALL FOR ELECTRICAL CONDUIT.
4. ADD ALTERNATE E1: PROVIDE TYPE D LIGHT FIXTURES AND POLES AND CONCRETE BASES AND WIRING IN EXISTING CONDUIT TO NEW CONCRETE BASES AS REQUIRED AND PROVIDE 3" TO 2" BELL SHAPED (SMOOTH) REDUCER FITTING TO ALLOW 2" CONDUIT SWEEPS IN CONCRETE BASES.
5. LEAVE 24" SLACK CONDUCTOR LENGTH. COORDINATE CONNECTION TO RGE CITY LIGHTING CIRCUITS WITH RGE.
6. CONNECT THIS FIXTURE TO LOAD SIDE OF PHOTOCELL ON NEAREST TYPE E SITE LIGHT.

NO 3" CONDUITS FOUND
¾" RIGID FROM PANEL LR.
PULLED 3 #6's + #10 GROUND
CIRCUIT 9 – WATER CONTROLLER
CIRCUIT 11 – SITE LIGHTING AROUND SERVICE BUILDING

DIG SAFE NOTE:

UTILITIES ARE PLOTTED FROM FIELD LOCATION AND ANY RECORD INFORMATION AVAILABLE, AND SHOULD BE CONSIDERED APPROXIMATE. OTHER UTILITIES MAY EXIST WHICH ARE NOT EVIDENT OR FOR WHICH RECORD INFORMATION WAS NOT AVAILABLE. CONTRACTORS MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING. ALSO, CALL "UNDERGROUND FACILITY PROTECTION ORGANIZATION" AT 1(800)962.7962. DIG-SAFE WEBSITE: WWW.DIGSAFE.COM

NOTES:

1. THE ACTIVATOR BOLLARDS ARE "SWITCHES" TO THE 24V WATER VALVES. THE BOLLARDS ARE TO BE PROVIDED BY THE GENERAL CONTRACTOR.
2. HANDHOLES SHALL BE 24" SQUARE CONCRETE W/CAST IRON COVER MEETING THE CITY OF ROCHESTER REQUIREMENTS.

ELECTRICAL SITE PLAN

SCALE: 1" = 8'

RECORD DRAWING

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Rev.	Description	By	Date
1	REVISED	SRP	4-27-05
2	REVISED PER ADDENDUM DATED 5-6-05	AAB	9-1-05
3	RECORD DRAWINGS		4.16.10

Manhattan Square Park
Phase One Renovations

LIGHTING PLAN

STATE OF NEW YORK — Licensed Professional Engineer — 4/23/10

Project No.	7535002A
Proj. Manager	D.A.H.
Proj. Designer	L.A.B.
Drawn By	C.A.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/23/04

E3.0

Sheet 36 of 38

E1 msp

ORIGINAL SHEET – 30 X 42

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Jan 04, 2011 - 10:13 AM By Stefano Ferrante

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LOACTION	TYPE	LAMP COLOR	LAMPS	MOUNTING	VOLTAGE	OPTIONAL EQUIPMENT (BID AS ALTERNATE #3)	REMARKS	TOTAL WATTS
A	CANLET	G-1-W-F-15-GH(AMBER)	LED "MARQUEE" LIGHTS	SPACEFRAME	LED	~~WHITE~~ AMBER	(1) LED – A19	ONTO SPACEFRAME	120		LED LAMP – EQUAL TO LEDTRONICS – TRF-A19-2IW-02	4.3
B	AAL	OLR-150MH17-120-LHX	AREA FLOOD LTS	SPACEFRAME	MH	CLEAR	(1) 150W MH ED-17	ONTO SPACEFRAME	120	LCM – COLOR DICHROIC FILTER – COLOR TBD		180
C	DERKSEN	GL700MSD-AC	LOGO LT	SPACEFRAME	MH	CLEAR	(1) 700W MH	ONTO SPACEFRAME	208		LOGO & COLOR DICHROIC FILTER – TBD	755
D	LUMEC	70MH-L3QL-PCO-SE3-120-1-AM6U-~~14~~-BX-FS-PH	POLE MTD WALKWAY LT	PARK WALKWAYS	MH	CLEAR	(1) 70W MH ED-17	12' POLE	120		SEE NOTE BELOW	94
E	HOLOPHANE	P-150DMH-12-F-F-BK-PR-F1	POLE MTD AREA DOWN LT	PLAYGROUND	MH	COATED	(1) 150W MH	16'/20' POLE	120			180
P26 ~~P36~~	HOLOPHANE	PARKWAY SINGLE ~~20'~~ 26'	POLE	PLAYGROUND	--	--	--	CONCRETE BASE	120			
P16	HOLOPHANE	PARKWAY SINGLE 16'	POLE	PLAYGROUND	--	--	--	CONCRETE BASE	120			
F	KIM LIGHTING	WF31-S-70MH120-BL-P-SF	WALL MTD	PLAYGROUND	MH	CLEAR	(1) 70W MH ED-17	WALL	120			94
FP	KIM LIGHTING	WF31-S-70MH120-BL-P-SF	WALL MTD	PLAYGROUND	MH	CLEAR	(1) 70W MH ED-17	WALL	120		WITH PHOTO CELL	94
G	KIM LIGHTING	AFL11-150MH120-BL-P-HDS-BD-WM	WALL MTD UPLIGHT FLOOD	SPACEFRAME	MH	CLEAR	(1) 150W MH ED-17	ONTO SPACEFRAME	120	CFA1-XX-BL-P – COLOR FILTER – COLOR TBD		180

NOTE: 1

ADD GFCI RECEPTICLE MOUNTED AT 11' TO THE TYPE D FIXTURES. CONNECT TO LIGHTING CIRCUIT.

PANEL No. SPL

BUS 225A
PANEL RATING 22KAIC
SUPPLY VOLTAGE 208Y/120V
SERVICE 3Ø, 4W

LOCATION SPL-DP
MOUNTING IN ENCLOSURE
DRAWING No.

WIRING WIRE	COND	DESCRIPTION		VA OR W ØA	ØB	ØC	BREAKER POLE	A	CKT. NO	BUS CONN	CKT. NO	BREAKER POLE	A	VA OR W ØA	ØB	ØC	DESCRIPTION		WIRING COND	WIRE
2#10, 1#10G	1	TYPE A LTS	NORTH	800			1	20	1	x	2	1	20	360			TYPE B LTS	EAST	1	2#8, 1#8G
2#10, 1#10G	1	TYPE A LTS	EAST		800		1	20	3	x	4	1	20		360		TYPE B LTS	CENTER/ SOUTH	1	2#8, 1#8G
2#10, 1#10G	1	TYPE A LTS	WEST			800	1	20	5	x	6	1	20			360	TYPE B LTS	NW	1	2#8, 1#8G
2#10, 1#10G	1	TYPE A LTS	SOUTH	800			1	20	7	x	8	1	20	360			TYPE B LTS	N CENTER	1	2#8, 1#8G
		RECEPTACLES	SW				1	20	9	x	10	1	20		360		TYPE B LTS	NE	1	2#8, 1#8G
2#8, 1#8G	1	RECEPTACLES	SE			180	1	20	11	x	12	1	20				TYPE C LOGO LIGHT			
2#8, 1#8G	1	RECEPTACLES	NW	180			1	20	13	x	14	1	20				GFI NEXT TO SPL			
2#8, 1#8G	1	RECEPTACLES	NE		180		1	20	15	x	16	1	20				GFI NEXT TO SPL			
2#8, 1#8G	1	RECEPTACLE	SE STRUCTURE			180	1	20	17	x	18	1	20				CONTROL CIRCUIT			
		RECEPTACLE	SE STRUCTURE	350			2	20	19	x	20						SPARE			
		RECEPTACLE	SE STRUCTURE		350				21	x	22									
									23	x	24									
									25	x	26									
									27	x	28									
									29	x	30									
		TOTAL 1		2130	1330	1160					TOTAL 2			720	720	360				
		TOTAL 2																		
		TOTAL 1 + 2		2130	1330	1160														
		CONN. LOAD TOTAL		4620																
		AMPERES		13																

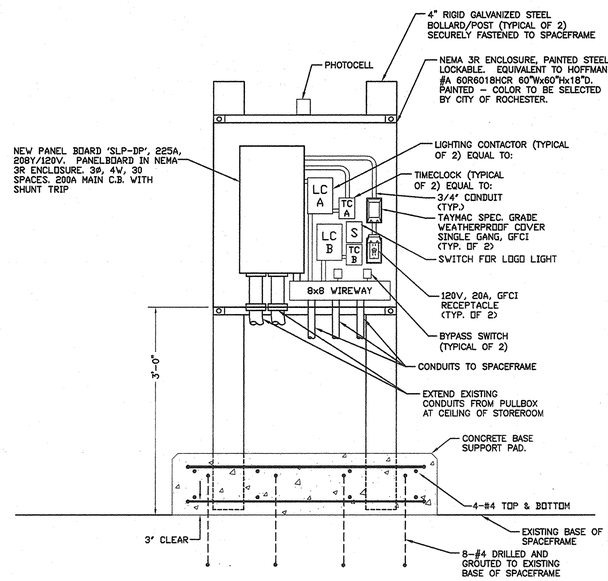
MAIN BREAKER 200A/3P
FEEDER ENTRANCE
FEEDER SIZE 4# 4/0, 1# 4G, 2 1/2" C.
SOURCE EXISTING PANEL LD
PANEL TYPE BOLT-ON

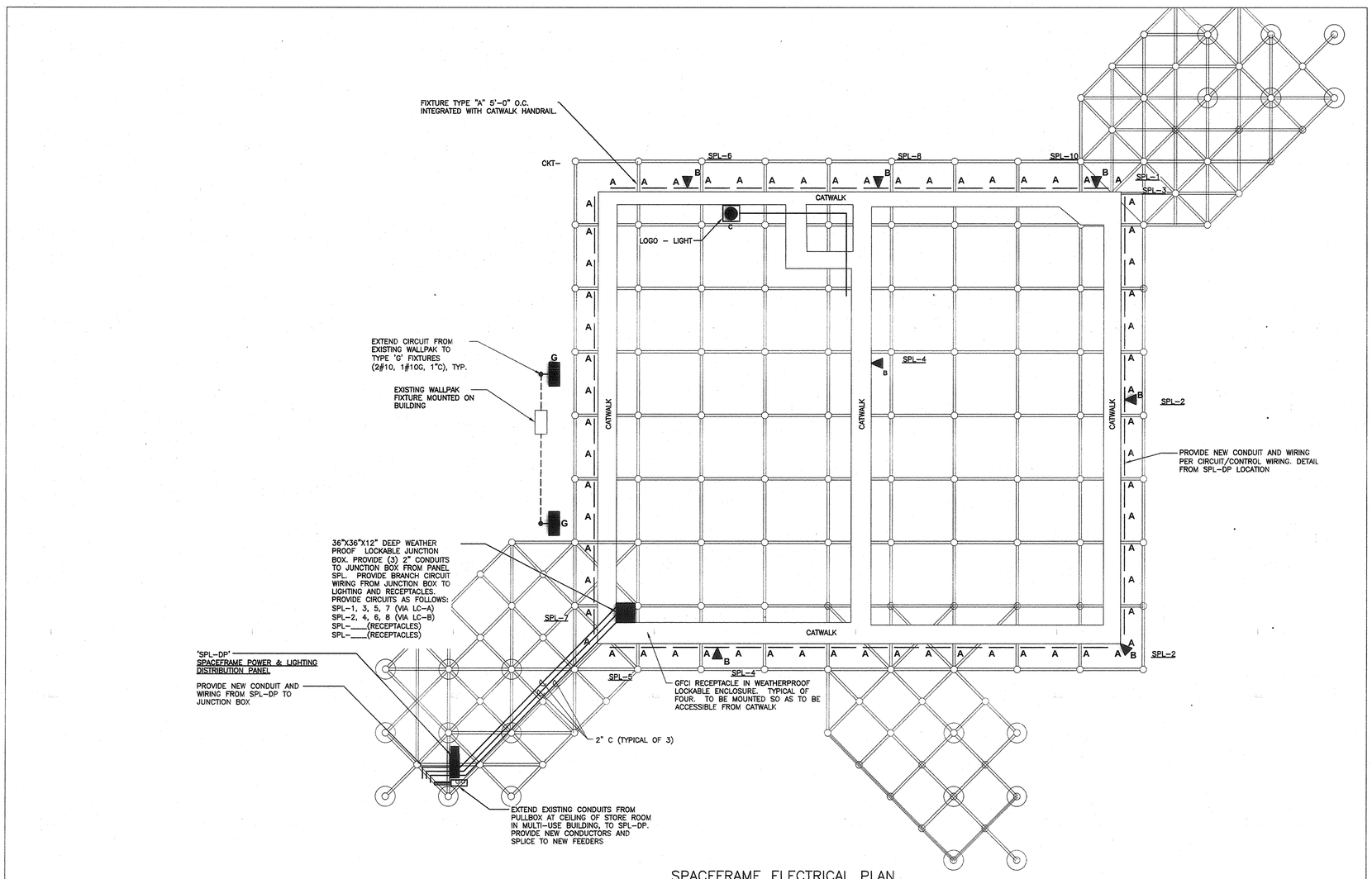
MAIN LUGS N/A
ENCLOSURE TYPE NEMA 1
ACCESSORIES

WIRES INSTALLED IN 200AMP BUCKET ABOVE OLD 500AMP BREAKER WHICH USED TO FEED SPACE FRAME. FUSED 100A

LEGEND
A TYPE A LIGHTS
B TYPE B LIGHTS
1" RIGID METAL CONDUIT

NOTES:
1. LIGHT FIXTURES, OUTLET, JUNCTION BOXES AND CONDUITS SHALL BE SECURELY FASTENED TO THE SPACE FRAME.
2. TYPE A LIGHT FIXTURES SHALL BE MOUNTED TO CATWALK RAIL, POINTING OUT FROM THE SPACE FRAME STRUCTURE.
3. TYPE B AND TYPE C (LOGO LIGHT) SHALL BE MOUNTED SO AS TO BE DIRECTED DOWNWARD AT 45± ANGLE AND TO BE ACCESSIBLE FOR AIMING AND SERVICING.



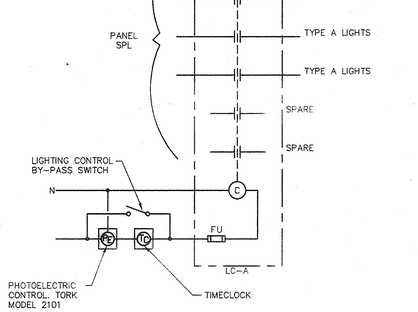


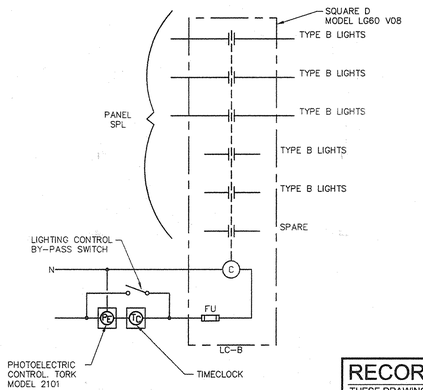
SPACEFRAME ELECTRICAL PLAN
SCALE:1/8" = 1'0"

SPACEFRAME POWER AND LIGHTING DISTRIBUTION PANEL 'SPL–DP' DETAIL

NOT TO SCALE

NOTES:
1. EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS).
2. ELECTRICAL EQUIPMENT AND INSTALLATION INSIDE ENCLOSURE SHALL BE WEATHERPROOF (NEMA 3R).





LIGHTING CONTACTORS – SCHEMATIC WIRING DIAGRAM

NO SCALE

RECORD DRAWING

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RINK CONSULTANT
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Burnaby, B.C. Canada
604-291-9980

Rev.	Description	By	Date
1	PER ADDENDUM 2 DATED 5-6-05	SRP	9.5.05
2	RECORD DRAWINGS	AAB	4.18.10

Manhattan Square Park
Phase One Renovations

SPACE FRAME LIGHTING & POWER DISTRIBUTION PLAN

Project No.	7530024
Proj. Manager	D.A.H.
Proj. Designer	L.B. / D.A.H.
Drawn By	M.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/23/04

STATE OF NEW YORK – DEPARTMENT OF STATE – LICENSED PROFESSIONAL ENGINEER – 4/2/10

E4.0

Sheet 37 of 38

E1 msp

U:\p\7530\4\DWG\Contr\Lt (05 Conformed Dwg Set\Electrical dwg set 9--19--05\Record Drawings\7530024-REV0--E2.0&E4.0-SPACE FRAMEADDENDA.dwg
Oct 21, 2004 - 11:10:34 AM by Bobbie Arnold
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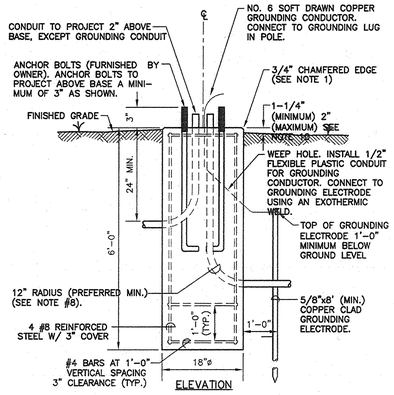
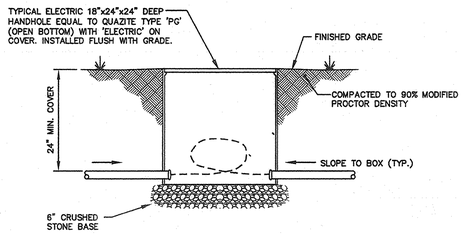


STANDARD CONCRETE BASE DETAIL

NOT TO SCALE

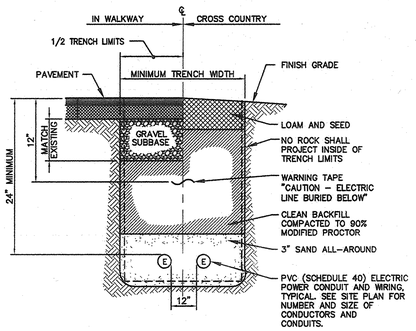
CONCRETE BASE AND GENERAL NOTES:

1. ALL CONCRETE BASES SHALL BE POURED ON-SITE, NOT PRE-FABRICATED.
2. ALL CONCRETE BASES TO BE CONCRETE CLASS B, AND SHALL HAVE A SMOOTH LEVEL TOP SURFACE AT A HEIGHT OF BETWEEN 1-1/4" TO 2" ABOVE GRADE AND FINISHED WITH A 3/4" RADIUS EDGING TOOL.
3. ALL REINFORCING STEEL TO CONFORM TO THE REQUIREMENTS FOR "REINFORCING STEEL".
4. TEMPLATE FOR ANCHOR BOLTS, STAINLESS STEEL ANCHOR BOLTS, NUTS AND WASHERS TO BE OBTAINED BY CONTRACTOR PRIOR TO CONSTRUCTION OF BASES.
5. CONDUIT SIZE - AS SHOWN ON THE PLANS.
6. ALL EXPOSED METAL HARDWARE SHALL BE GALVANIZED OR STAINLESS STEEL.
7. THE MINIMUM RADIUS FOR RIGID METALLIC OR NONMETALLIC ELECTRICAL CONDUIT SHALL BE SIX TIMES THE INSIDE DIAMETER OF THE CONDUIT.
8. GROUT TO ELIMINATE ANY SPACE BETWEEN CONCRETE BASE AND METAL BASE OF FIXTURE.



TYPICAL SECTION AT HANDHOLE

NOT TO SCALE

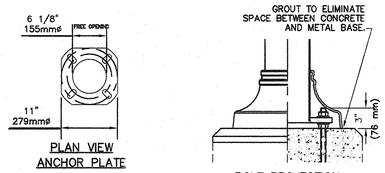


TYPICAL TRENCH SECTION

NOT TO SCALE

ELECTRICAL NOTES AND SPECIFICATIONS:

1. THE SCOPE OF WORK IS TO PROVIDE ALL LABOR, MATERIALS, SERVICES, SUPPLIES, TOOLS, EQUIPMENT, TRANSPORTATION, AND FACILITIES NECESSARY TO FURNISH AND INSTALL COMPLETE ELECTRICAL WORK AS CALLED FOR ON THE DRAWINGS, SPECIFIED, OR AS MAY REASONABLY BE IMPLIED AS BEING INCIDENTAL TO THIS WORK.
2. SECURE AND PAY COSTS OF PERMITS, CERTIFICATES, LICENSES, INSPECTIONS, AND APPROVALS. ANY POWER OUTAGE SHALL BE SCHEDULED AND APPROVED BY THE OWNER.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF WORK. BASIC DESIGN CONCEPTS INDICATED ARE TO BE EITHER FOLLOWED OR BETTERED. WORK IS INTENDED TO INCLUDE ITEMS NECESSARY FOR PROPER OPERATION AND COMPLETION. FIELD VERIFY ALL LOCATIONS, ELEVATIONS, AND DIMENSIONS.
4. EXECUTE ALL WORK IN A NEAT AND WORKMANLIKE MANNER IN CONFORMANCE WITH BEST MODERN TRADE PRACTICE, BY COMPETENT, EXPERIENCED MECHANICS, PRESENTING A NEAT APPEARANCE WHEN COMPLETED. REPLACE WORK NOT APPROVED BY OWNER WITHOUT ADDITIONAL CHARGE.
5. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL CODES, REGULATIONS AND REQUIREMENTS OF ALL MUNICIPAL, STATE, FEDERAL AND OTHER PUBLIC OR PRIVATE AUTHORITIES WHICH HAVE JURISDICTION. IN EACH CASE, CODES ARE MINIMUM REQUIREMENTS.
6. SHOP DRAWINGS: SUBMIT COMPLETE CATALOG INFORMATION FOR ALL MATERIALS AND EQUIPMENT TO BE PURCHASED AND USED ON THIS PROJECT, AS SPECIFIED ON THE DRAWINGS. DO NOT INSTALL MATERIALS OR EQUIPMENT WITHOUT APPROVAL BY THE OWNER. UNAPPROVED MATERIAL ALREADY INSTALLED SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT WITH APPROVED MATERIALS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT APPROVED SUBSTITUTE ITEMS WILL FIT INTO AVAILABLE SPACES AND FOR ANY EXTRA CHARGES BY OTHER TRADES.
7. AS THERE MAY BE VARIOUS CONDITIONS AT THE SITE WHICH DO NOT SHOW ON THE ACCOMPANYING DRAWINGS, OR WHICH ARE AT VARIANCE WITH THE CONDITIONS INDICATED ON THE DRAWINGS, IT IS IMPORTANT THAT EACH BIDDER VISIT THE SITE AND ACQUAINT HIMSELF WITH EXISTING CONDITIONS AND TAKE THESE CONDITIONS INTO CONSIDERATION WHEN PREPARING HIS BID. EACH BIDDER SHALL OBTAIN INFORMATION OR MAKE ANY MEASUREMENT DESIRED. LACK OF KNOWLEDGE RELATIVE TO EXISTING SITE CONDITIONS WILL NOT BE ALLOWED AS A BASIS FOR EXTRA COMPENSATION.
8. THE FINISHED INSTALLATION SHALL BE COMPLETE IN EVERY RESPECT AND DETAIL, TESTED AND LEFT READY IN PERFECT OPERATING CONDITION FOR THE OWNER'S USE.
9. MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS' LABORATORIES AND SHALL BE INSTALLED IN ACCORDANCE WITH SUCH LISTINGS.
10. THE CONTRACTOR SHALL GUARANTEE THAT MATERIALS, EQUIPMENT AND WORKMANSHIP PROVIDED BY HIM SHALL BE FREE FROM DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK DONE UNDER THIS CONTRACT, AND SHALL REPLACE PARTS FOUND TO BE DEFECTIVE WITHIN THE PERIOD COVERED BY SUCH GUARANTEE, WITHOUT COST TO THE OWNER.
11. INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
12. CONTRACTOR SHALL CARRY ALL COSTS RELATING TO REMOVAL AND DISPOSAL OF ALL ELECTRICAL EQUIPMENT, LIGHTING FIXTURES, CONCRETE BASES AND RELATED EQUIPMENT.
13. ALIGN FIXTURES ALONG ALL CONTINUOUS STRAIGHT WALKWAY SECTIONS. WALKWAY FIXTURES SHALL BE SET AT A NOMINAL DISTANCE OF 3 FT. FROM EDGE OF WALKWAYS TO CENTER OF FIXTURE BASE. ROADWAY FIXTURES SHALL BE SET AT A NOMINAL DISTANCE OF 4 FT. FROM EDGE OF ROADWAYS TO CENTER OF FIXTURE BASE. EDGE OF WALKWAY / ROADWAY SHALL BE DETERMINED.
14. EXISTING LIGHTING SHALL BE REMOVED AS INDICATED. EXISTING UNDERGROUND WIRE AND CONDUIT SHALL BE REMOVED. CONTRACTOR SHALL CARRY ALL COSTS RELATING TO THE REMOVAL AND DISPOSAL OF CONCRETE BASES, WIRING, AND ASSOCIATED MATERIALS. OWNER'S EXISTING LIGHT FIXTURES AND POLES SHALL BE TURNED OVER TO THE OWNER AND SHALL BE TRANSPORTED TO THE OWNER'S STORAGE SITE (MAXIMUM OF 10 MILES)
15. LOCATION OF PROPOSED ELECTRICAL SERVICES ARE INTENDED NOT TO DISTURB ROOT SYSTEMS OF EXISTING TREES OR SHRUBS. CONTRACTOR SHALL EXERCISE DUE CARE TO PREVENT DAMAGE THERETO. ALL GRASS AREAS DISTURBED SHALL BE RESTORED TO ROUGH GRADE. TOPSOIL AND GRASS SEEDING SHALL BE DONE BY OTHERS. CONTRACTOR IS RESPONSIBLE FOR REMOVAL, CARE & REPLANTING OF ALL PLANTINGS AND SHRUBS DISTURBED DURING CONSTRUCTION.
16. INFORMATION SHOWN ON THE DRAWING DEPICTING EXISTING ELECTRICAL ITEMS HAS BEEN OBTAINED FROM THE NOVEMBER 20, 1972 DESIGN DRAWINGS BY LAWRENCE HALPRIN ASSOCIATES AND FIELD NOTES. DUFRESNE-HENRY ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE INFORMATION DEPICTED HEREIN.
17. CONTRACTOR TO CONTACT DIG SAFE IN NEW YORK AT 1-800-962-7962, PRIOR TO COMMENCING WORK. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES AND TAKE NECESSARY PRECAUTIONS IN STRICT ACCORDANCE WITH OSHA STANDARDS DURING CONSTRUCTION.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING BARRIERS TO PREVENT PUBLIC ENTRY TO ANY AREAS OF CONSTRUCTION INCLUDING HOLES TRENCHED, PILES OF FILL MATERIAL, CONSTRUCTION MATERIALS, AND ANY OTHER CONSTRUCTION HAZARDS. BARRIERS SHALL BE PROVIDED AT ALL HOURS AND SHALL CLEARLY INDICATE THE AREA NOT TO BE TRESPASSED.
19. ALL CONDUIT TRENCHES WHICH CROSS EXISTING WALKWAYS, SIDEWALKS, CURBS AND ROADS SHALL BE BORED. THERE SHALL BE NO CUTTING AND PATCHING OF EXISTING PAVEMENT AND CURBING. EXCEPTIONS TO THIS REQUIREMENT ARE AT NEW PAVEMENT AREAS.



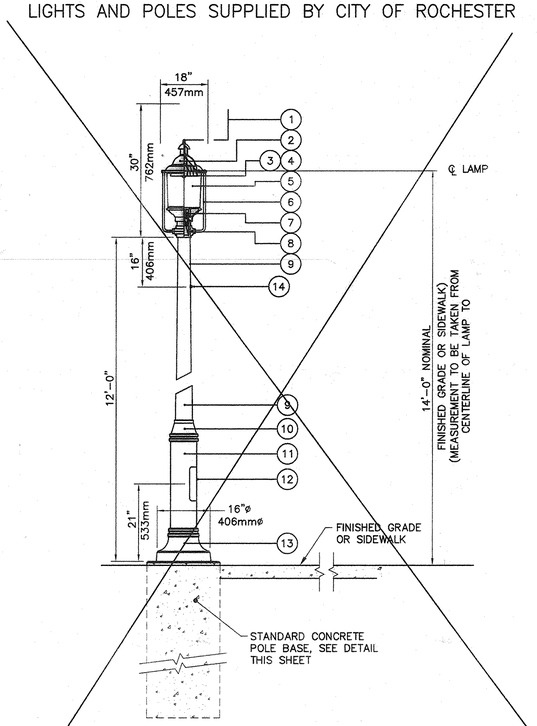
ANCHOR PLATE:
- BOLT CIRCLE: 10-1/2"ø (267mmø)
- CAST ALUMINUM
- NOTE: THIS ANCHOR PLATE ACCEPTS A BOLT CIRCLE FROM 8-3/4"ø @ @ 11"ø (222mmø @ 279mmø).

- PROVIDED WITH 4 ANCHOR BOLTS, 8 NUTS AND 8 WASHERS.
- ANCHORING BOLTS: 3/4"ø x 20" LONG.

TYPE 'D' BASE DETAILS

NOT TO SCALE

LIGHTS AND POLES SUPPLIED BY CITY OF ROCHESTER



TYPE 'D' LIGHT DETAIL

NOT TO SCALE

DESCRIPTION OF COMPONENTS:

LUMINAIRE: LUMEC 70MH-L30-PCO-SE3-120-1-BLACK-FS-PH
POLE: AM6U-12-BLACK

1. FINIAL: Made of cast aluminum.
2. HOOD: Made of cast aluminum, pivoting on a pivot joint.
3. LAMP: 70 watt, metal halide, ED 17 bulb, medium base, not included.
4. OPTICS: SE3 system made of a chemically brightened, multi faceted, anodized aluminum hydroformed reflector, giving a type 3 (asymmetrical) distribution.
5. LENS: Made of opal polycarbonate.
6. CAGE: Made of cast aluminum.
7. BALLAST: 70 watt, MH, high power factor of 90% or better, quadruple tap, 120, 208, 240, 277 volt, wired at 120 volt, -30°F (-34°C)lamp starting capacity, c/w quick disconnect plug.
8. FITTER: Made of cast aluminum, mechanically secure.
9. POLE: Made of aluminum, 4" (102mm) O.D., .125" (3mm) wall thickness, welded to the base. Pole height is 12'0".
10. DECORATIVE COVER: Made of cast aluminum, mechanically secured to the pole.
11. BASE: Made of aluminum, 6 5/8" (168mm) O.D., .135" (4mm) wall thickness, welded to the anchor plate.
12. ACCESS DOOR: Made of aluminum, covering an opening of 4" x 9" (102mm x 229mm), giving access to a ground lug. Screws to be vandal resistant type.
13. BASE COVER: Made of a two-piece cast aluminum components, mechanically secured.
14. PHOTOCELL: PH

WIRING: Included, 6" (152mm) minimum exceeding from luminaire.

GASKETING: Neoprene and/or silicone gasketing is applied.

HARDWARE: All exposed screws will be stainless steel.

FINISH: An application of a thermosetting polyester powder coat paint, applied by means of an electrostatic process, color to be textured. (This finish is applicable for "LUMEC" standard colors only, special color finish supplied will be liquid polyurethane).

ELECTRICAL NOTES, SPECIFICATIONS AND DETAILS

NOT TO SCALE

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PLAYGROUND DESIGN
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ARCHITECT
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RINK CONSULTANT
North American Ice
876 Grove Avenue
Burnaby, B.C. Canada
604-291-9980

1	RECORD DRAWINGS	AAB	4.16.10
	Description	By	Date
	Rev.		

Manhattan Square Park
Phase One Removations

ELECTRICAL DETAILS

Project No.	7530024
Proj. Manager	D.A.H.
Proj. Designer	LAB
Drawn By	M.C.
Checked By	D.A.H.
Scale	AS SHOWN
Approved	D.A.H.
Date	12/23/04

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Sheet 38 of 38

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2010-04-19 11:31 AM By:Burton, Amanda
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