MANHASSET UNION FREE SCHOOL DISTRICT

MANHASSET, NEW YORK

2014 BOND PHASE 1 MEMORIAL FIELD

CONTRACT No. 2 - ATHLETIC FIELD AND TENNIS COURT RECONSTRUCTION

JOHN A. GRILLO - ARCHITECT PC

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ABBREVIATIONS

AFF ABOVE FINISHED FLOOR
ALUM ALUMINUM

BLK BLOCK
BTM BOTTOM

C.J. CEILING JOIST
CLG CEILING
CONC CONCRETE
CONT CONTINUOUS

DBL DOUBLE
DIA DIAMETER

EL ELEVATION

F.J. FLOOR JOIST
F.R.P. FIBERGLASS REIN. PANEL
FDN FOUNDATION
FTG FOOTING

G.C. GENERAL CONTRACTOR
GA GAUGE
GYP. BD. GYPSUM WALL BOARD

INSUL

INSUL

INSUL

INSUL

INSUL

INSUL

A.O.

A.O.

A.O.

A.D.

R.O.

A.D.

REIN

F.J.

F.T.

F.T.

F.T.

FIBERGLASS REIN. PANEL

S.S.

T.O.W.

TYP

GA
GAUGE
GYPSUM WALL BOARD

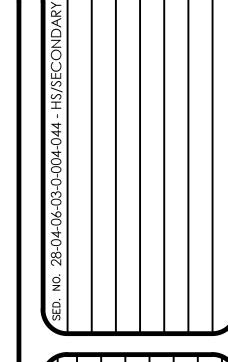
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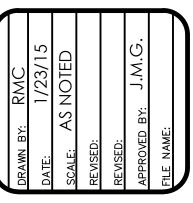
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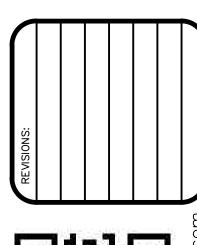
P.T. PRESSURE TREATED
R.R. ROOF RAFTER
RAD RADIUS
REIN REINFORCED
S.S. STAINLESS STEEL
STL STEEL
T.O.W. TOP OF WALL
TYP TYPICAL
V.A.T. VINYL ASBESTOS TILE
V.C.T. VINYL COMPOSITION TILE
VERT VERTICAL
WWM WELDED WIRE MESH

INSULATION

NOT IN CONTRACT







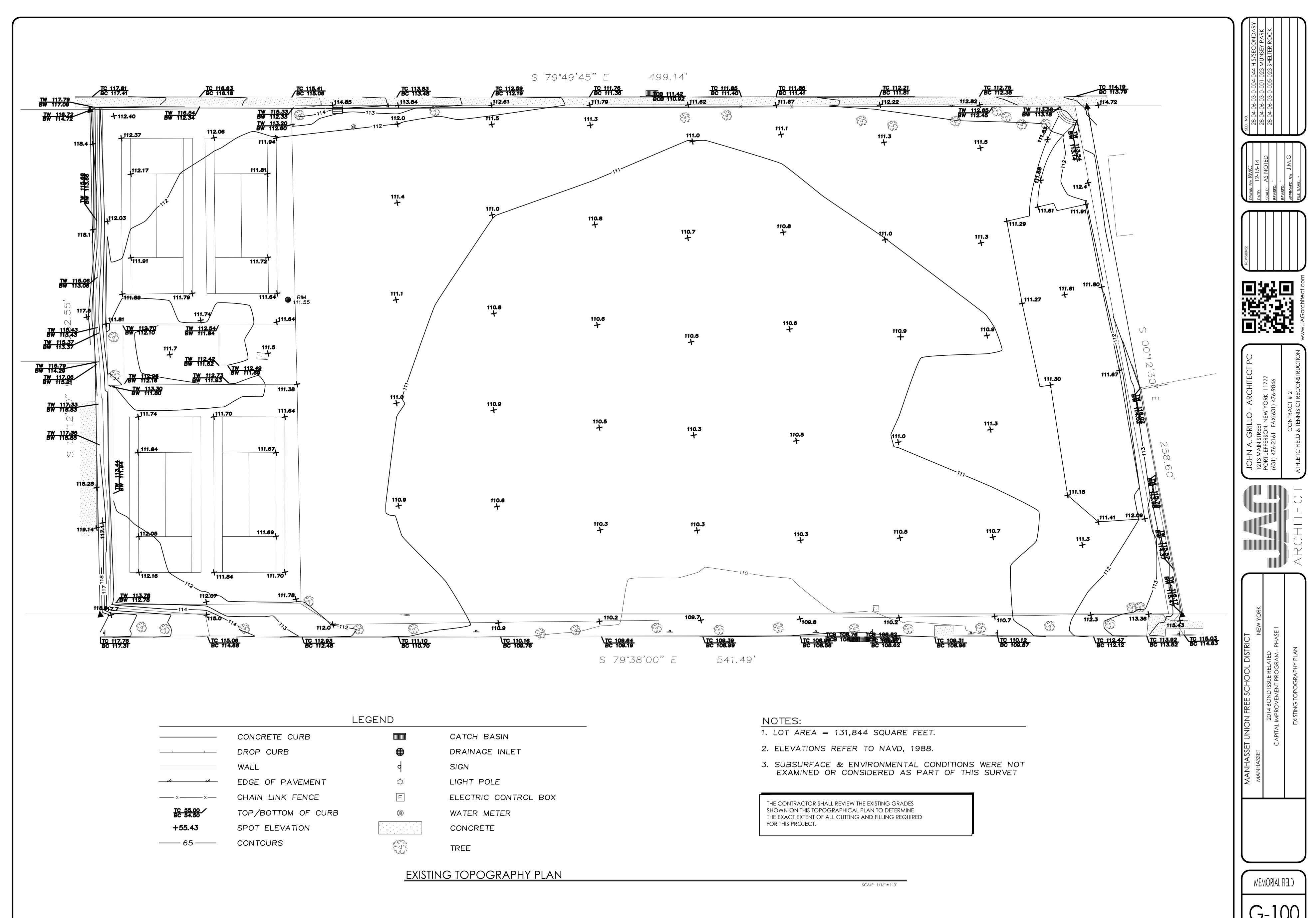




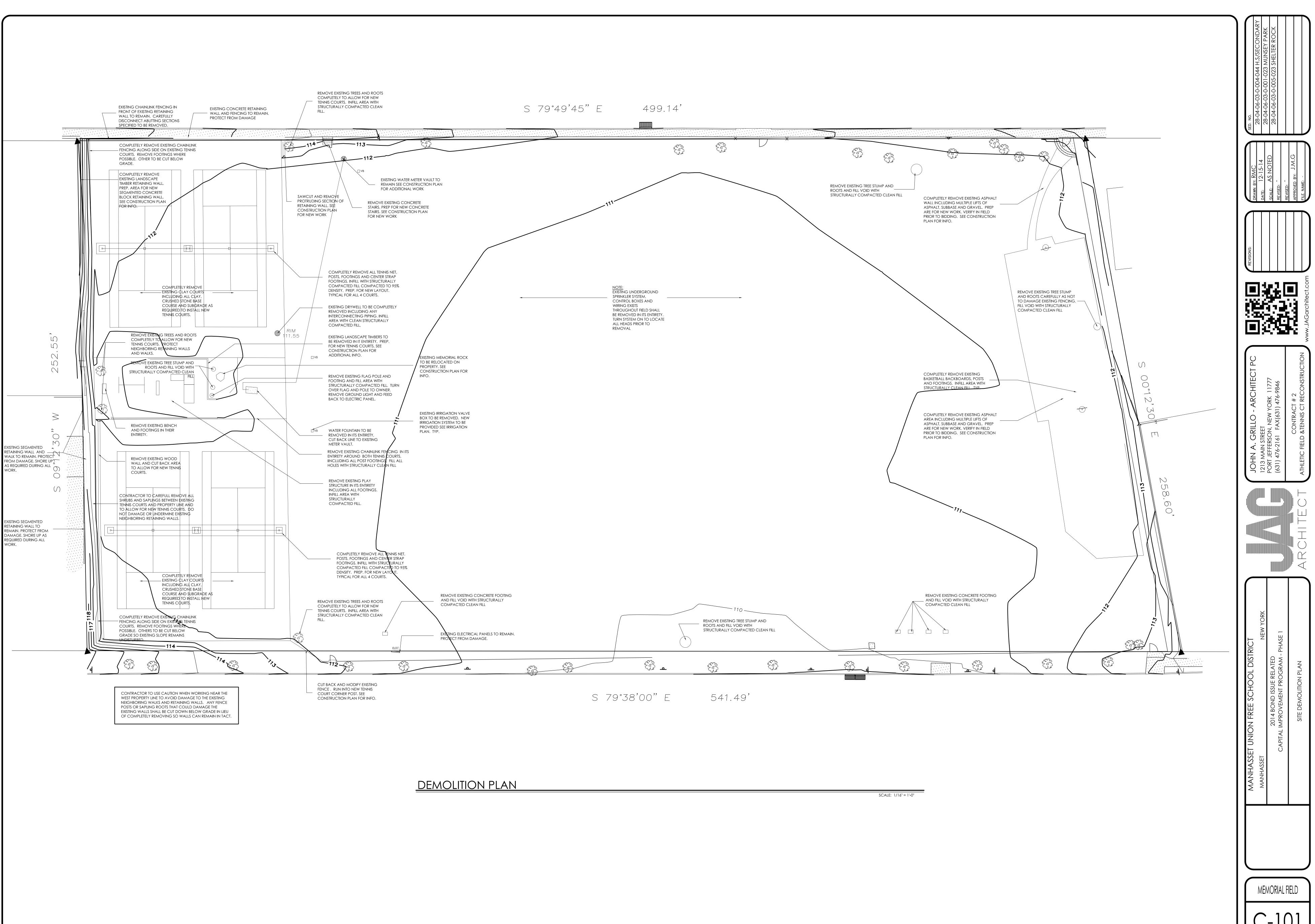


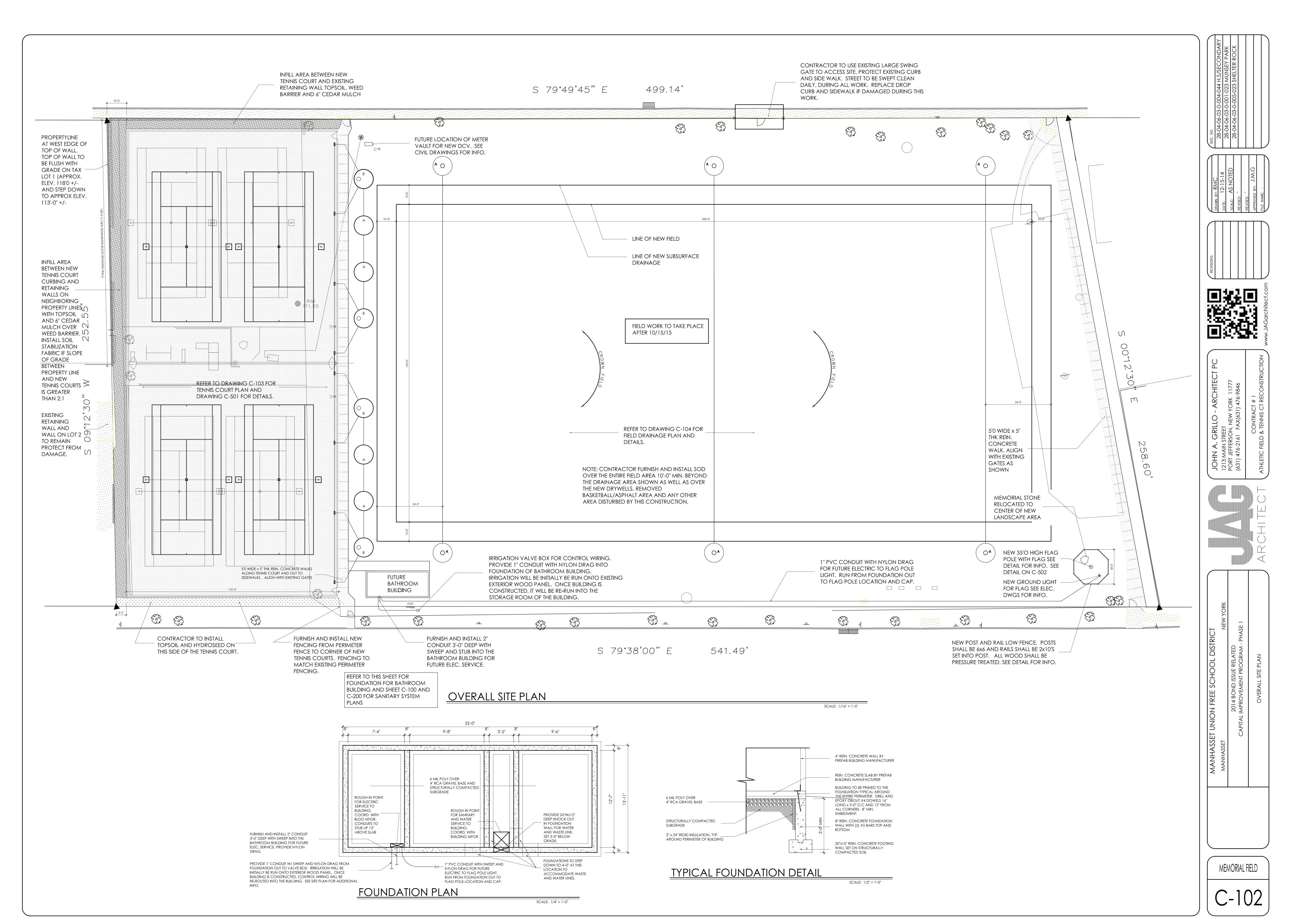
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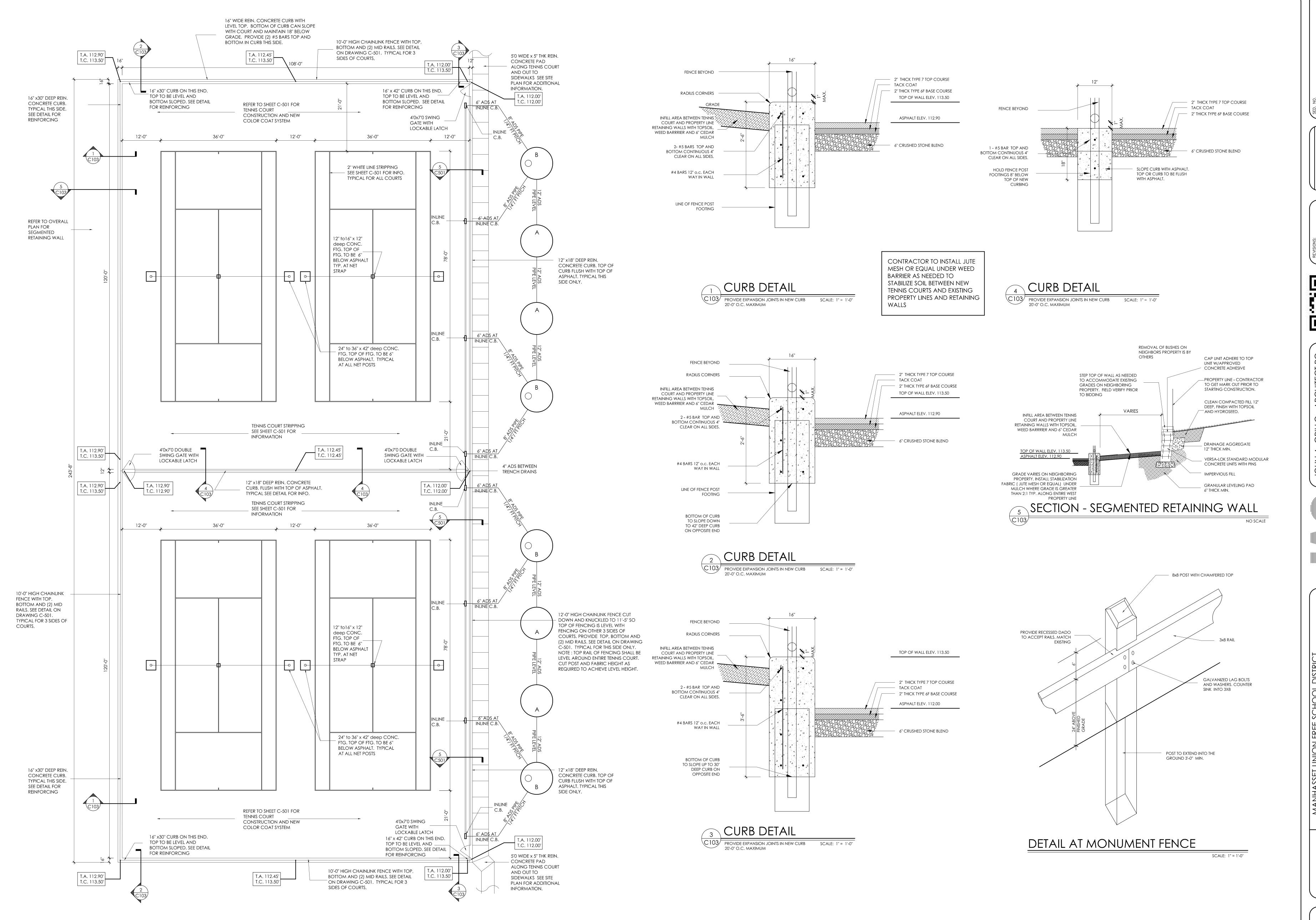
MANHASSET



G-100







TENNIS COURT PLAN

SCALE: 1/4" = 1'-0"

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CONTRACT # 2

ATHLETIC FIELD & TENNIS CT RECONSTRUCTION

ARCHITECT

SET

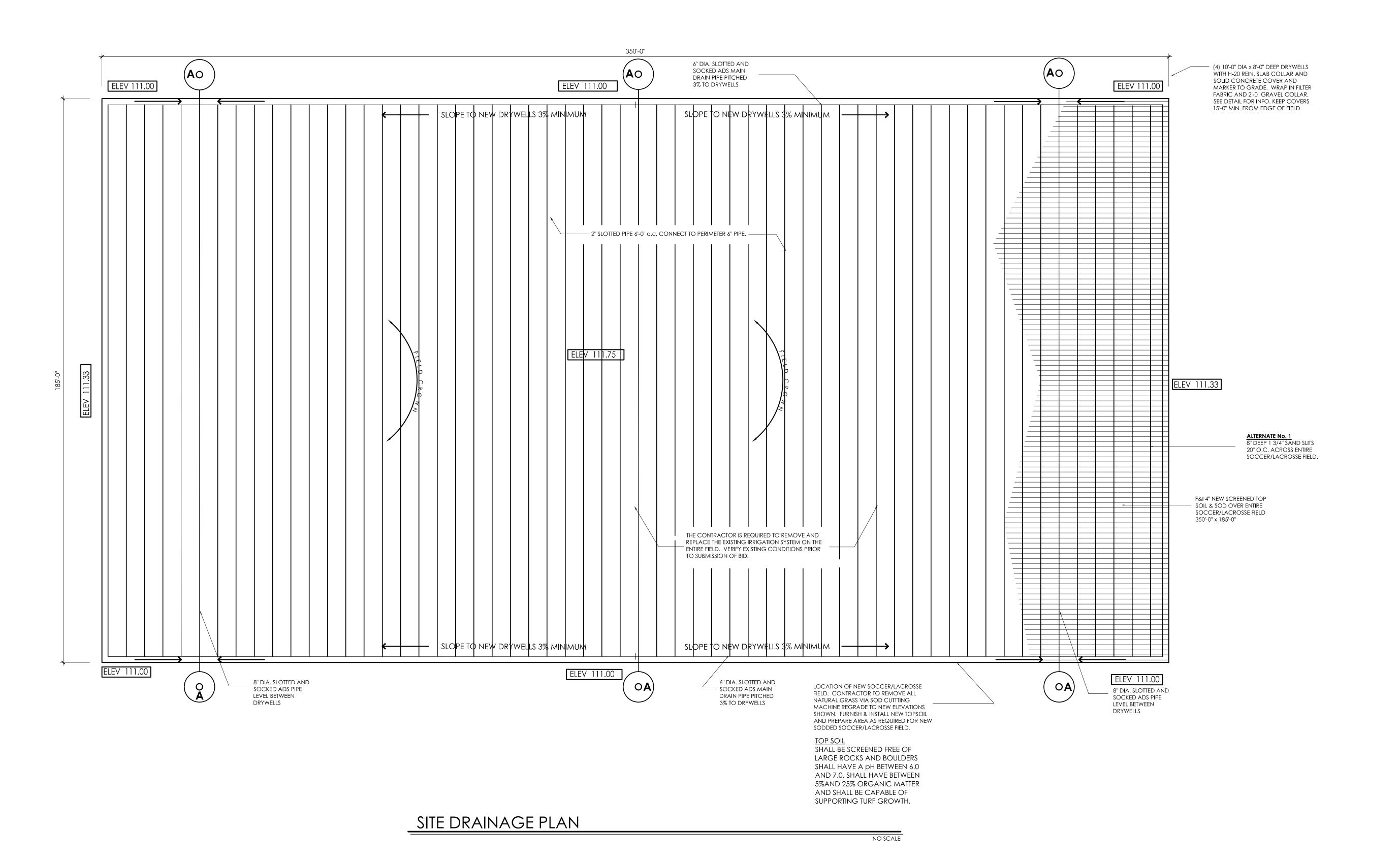
2014 BOND ISSUE RELATED

CAPITAL IMPROVEMENT PROGRAM - PHASE 1

TENNIS COURT PLAN

MEMORIAL FIELD

| C-103



SCOPE OF WORK: SOCCER/LACROSSE NATURAL GRASS FIELD SURVEY SPOT ELEVATIONS AND EXISTING CONTOURS.

MECHANICALLY STRIP ALL EXISTING TURF AT FIELD AND 10' AROUND VIA SOD

- CUTTER OR EQUAL. DISCARD LEGALLY OFF SITE.
- 3. MARK OUT AND REMOVE EXISTING IRRIGATION SYSTEM TO ALLOW FOR NEW DRAINAGE PIPING.
- ROUGH GRADE ENTIRE FIELD AREA.
- INSTALL NEW SLOTTED PIPE FOR DRAINAGE SYSTEM AND SAND SLITS AS
- INSTALL NEW IRRIGATION LINES, HEAD AND CONTROL WIRING FOR A
- COMPLETELY NEW IRRIGATION SYSTEM.
- FINAL GRADE, LAYOUT AND BUILD NEW FIELD.
- INSTALL NEW SCREENED TOPSOIL 4" MIN. ON ALL AREAS TO RECEIVE NEW SOD AND SOIL AMENDMENTS AS PER SPECIFICATIONS.
- POST ALL REQUIRED NOTICES, THEN FERTILIZE AND LIME ALL AREAS TO RECEIVE NEW SOD.
- 10. WATER AND ROLL NEW SOD.

IRRIGATION NOTES

- LOCATION OF IRRIGATION LINES, VALVES AND HEADS ARE APPROXIMATE. VERIFY EXACT LOCATION IN FIELD.
- PRIOR TO START OF ANY WORK THE CONTRACTOR MUST OPERATE THE EXISTING IRRIGATION SYSTEM AND LOCATE ALL VALVES, HEADS AND LINES WITHIN THE WORK AREA. AS WELL AS TEST THE SYSTEM FOR PROPER
- ALL HEADS SHALL BE REMOVED AND LINES CUT OUT AND CAPPED OUTSIDE THE WORK AREA.
- 4. AFTER THE NEW FIELD IS INSTALLED ALL BRANCH LINES AND CONTROL WIRING SHALL BE RE-RUN, HEADS INSTALLED AND SYSTEM MADE 100% OPERATIONAL TO PERMIT 100% COVERAGE TO ENTIRE GRASS AREAS.
- 5. PROVIDE NEW HEADS, LINE, WIRING, ETC. AS REQUIRED FOR A FULLY
- OPERATIONAL SYSTEM. ALL COMPONENTS SHALL MATCH EXISTING.

REFER TO IRRIGATION PLAN FOR ADDITIONAL INFO.

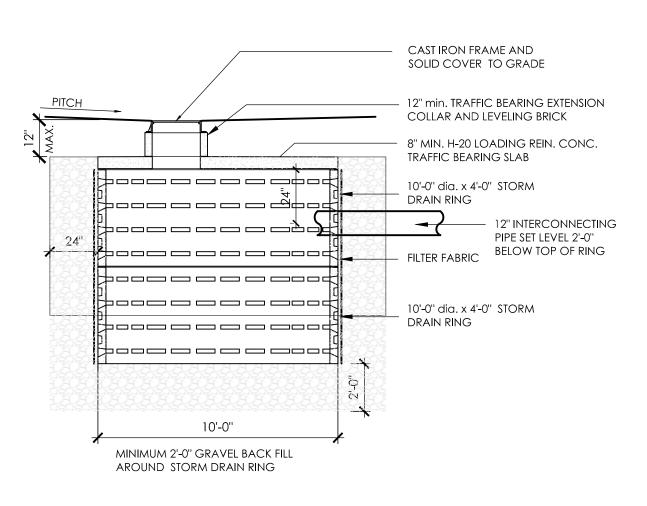
SOLID CONCRETE COVER WITH MARKER TO GRADE 8" MIN. H-20 LOADING REIN. CONC. TRAFFIC BEARING SLAB 10'-0" dia. x 4'-0" STORM 12" INTERCONNECTING PIPE SET LEVEL 2'-0" BELOW TOP OF RING _____ 10'-0" dia. x 4'-0" STORM 10'-0" MINIMUM 2'-0" GRAVEL BACK FILL AROUND STORM DRAIN RING

DRYWELL A BY CARLSON PRECAST INC. OR EQUAL

DRAINAGE RING NOTES: INSTALLATION OF DRYWELLS TO BE IN ACCORDANCE WITH HEALTH DEPARTMENT STANDARDS.

BOTTOM OF DRYWELL TO BE A MINIMUM OF 2' ABOVE THE GROUND WATER LEVEL 2' MINIMUM OF CLEAN SAND AND GRAVEL BACKFILL

AROUND DRYWELL. EXISTING SOIL ON SITE OR BANK RUN IS NOT ACCEPTABLE. WRAP IN FILTER FABRIC "POLY FILTER X" AS MFG. BY CARTHAGE MILLS - CINN. OHIO OR APPROVED EQUAL.

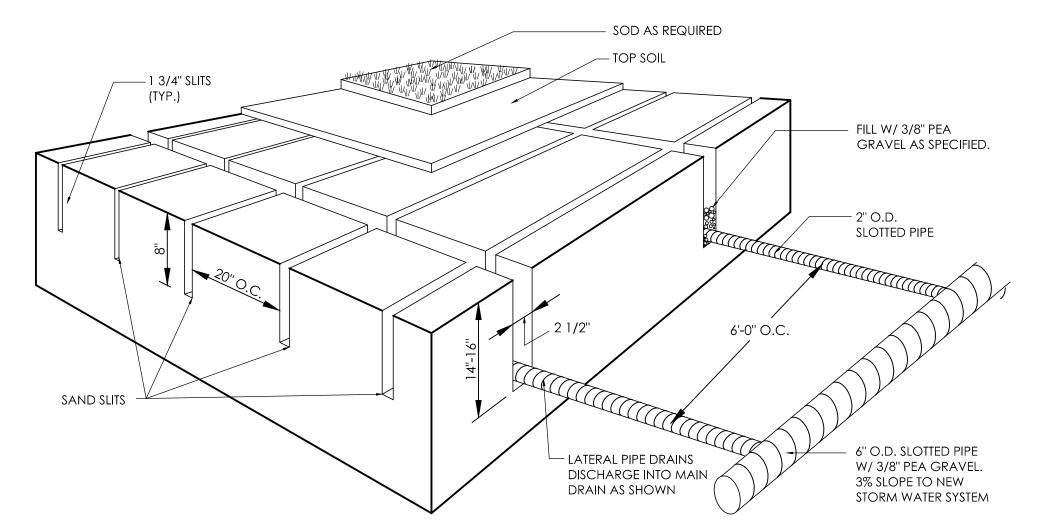


DRYWELL B BY CARLSON PRECAST INC. OR EQUAL DRAINAGE RING NOTES: INSTALLATION OF DRYWELLS TO BE IN ACCORDANCE WITH

HEALTH DEPARTMENT STANDARDS. BOTTOM OF DRYWELL TO BE A MINIMUM OF 2' ABOVE THE GROUND WATER LEVEL

2' MINIMUM OF CLEAN SAND AND GRAVEL BACKFILL

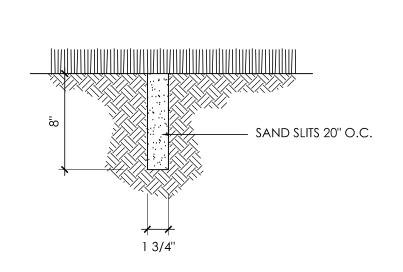
AROUND DRYWELL. EXISTING SOIL ON SITE OR BANK RUN IS NOT ACCEPTABLE. WRAP IN FILTER FABRIC "POLY FILTER X" AS MFG. BY CARTHAGE MILLS - CINN. OHIO OR APPROVED EQUAL.



SLIT DRAINAGE SYSTEM

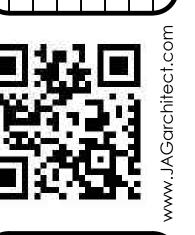
PRIOR TO STARTING WORK, MARK OUT EXIST. IRRIGATION SYSTEM HEAD, VALVE BOXES, PIPES ETC. REPAIR OR REPLACE THE EXISTING IRRIGATION SYSTEM AS REQUIRED ANY DAMAGE TO THE SYSTEM DURING THIS PROJECT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR

NO SCALE



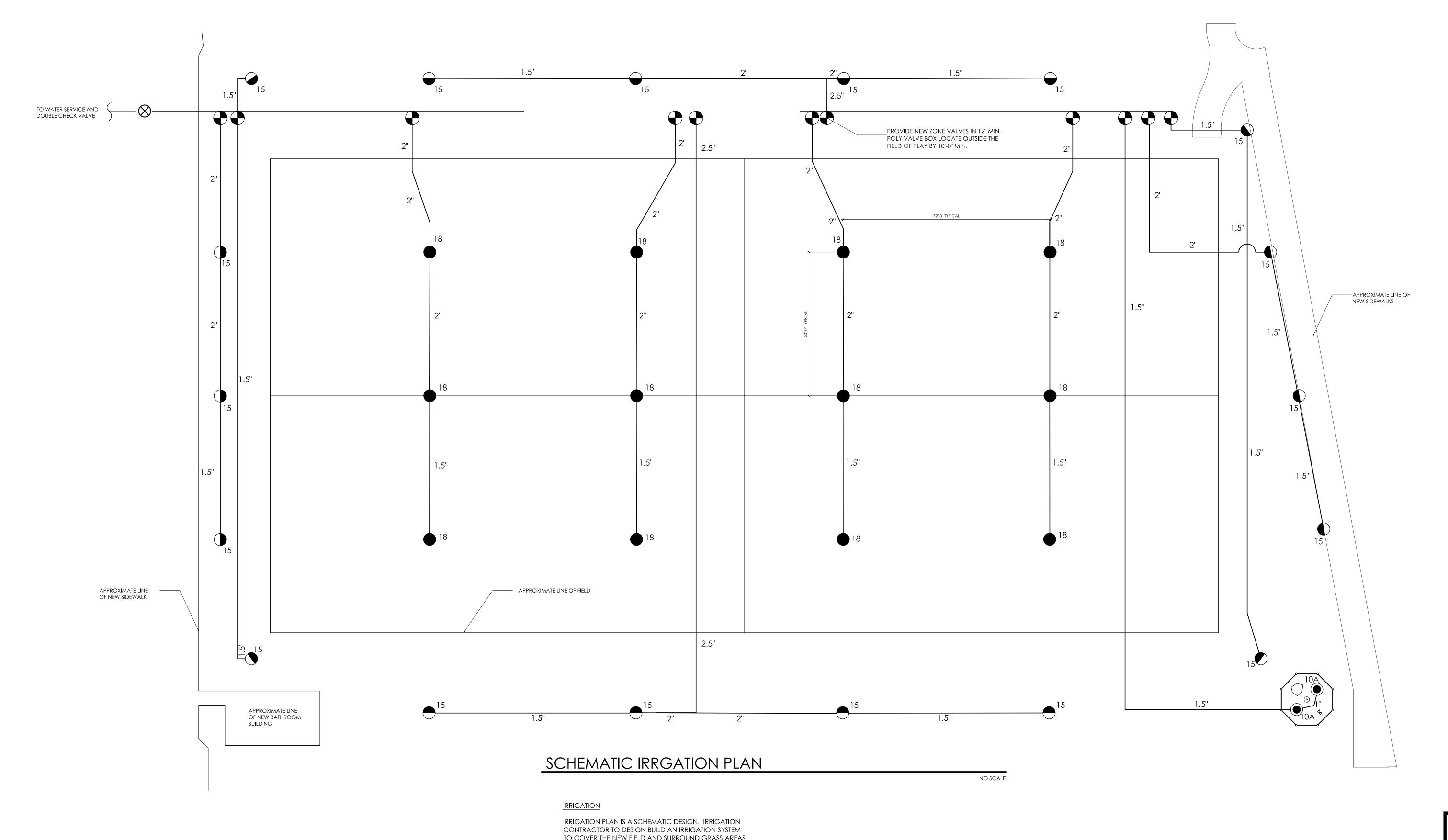
SAND SLIT

SCALE: 1 1/2" = 1'-0"





MEMORIAL FIELD



TO COVER THE NEW FIELD AND SURROUND GRASS AREAS. THE IRRIGATION CONTRACTOR IS REQUIRED TO DETERMINE THE EXISTING WATER PRESSURE PROVIDED BY THE EXISTING MAIN AND DESIGN THE SYSTEM ACCORDINGLY. PROVIDE THE ARCHITECT WITH A PROPOSED LAYOUT FOR APPROVAL AND PRIOR TO INSTALLATION.

IRRIGATION LEGEND

hunter i-40-04-ss-xx/i-40-06-ss-xx, nozzle as shown

hunter i-40-04-ss-xx/i-40-06-ss-xx, nozzle as shown

HUNTER PRO ADJUSTABLE NOZZLE 0 - 360

NOZZLE PERFORMANCE: #15 @ 70 PSI - 17.0 GPM 57' RADIUS #18 @ 75 PSI - 17.8 GPM 62' RADIUS #10A @ 30 PSI - 10' RADIUS

HUNTER ICV/IBV ELECTRIC CONTROL VALVE AS SHOWN

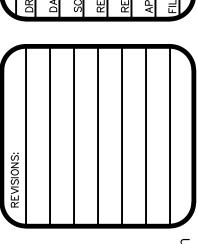
MAINLINE PIPE

LATERAL PIPE

ISOLATION VALVE LINE SIZED

IRRIGATION NOTES

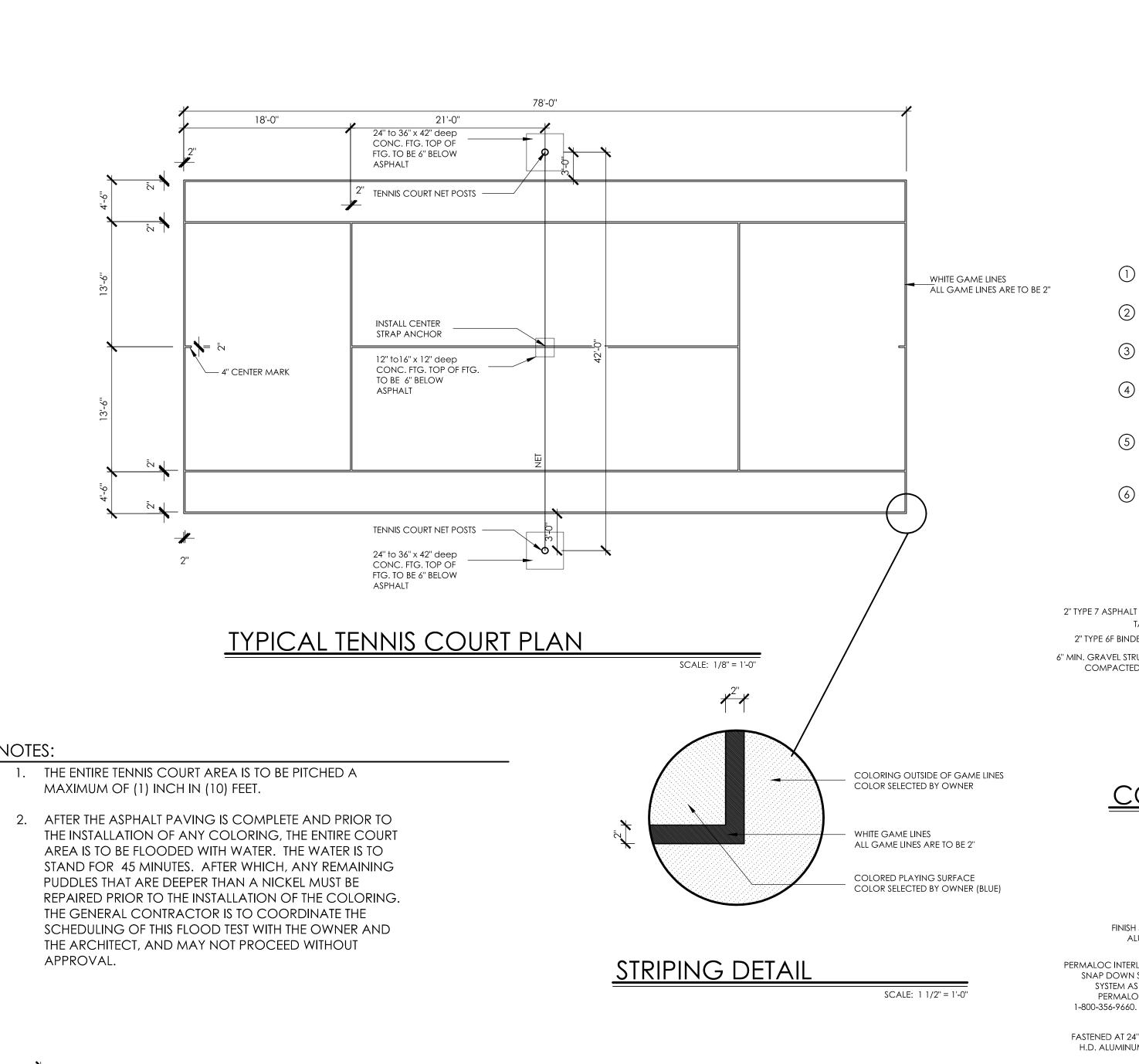
- 1. PIPE LOCATIONS ARE DIAGRAMMATIC.
- 2. ALL SPRINKLERS TO BE INSTALLED ON 1" SCH 80 SWING JOINTS. 3. ALL COMPONENTS TO BE INSTALLED AS PER MANUFACTURERS
- recommendations. 4. MAINLINE DEPTH TO BE NO LESS THAN 18".
- 5. LATERAL DEPTH TO BE NO LESS THAN 16".
- 6. ELECTRIC CONTROL VALVES TO BE COVERED WITH 12" VALVE BOX.
- 7. LOCATE VALVES/QCV'S OUT OF HIGH TRAFFIC AREAS.
- 8. WIRE SPLICE CONNECTIONS TO BE WATERPROOF. 9. ALL SLEEVES TO BE 2X PIPE RUN THROUGH THEM.
- 10. INSTALL ALL COMPONENTS AS PER LOCAL, STATE, FEDERAL CODES.
- 11. REFER TO ALL MANUFACTURERS INSTALLATION DETAILS. 12. REFER TO MANUFACTURERS CATALOG FOR PERFORMANCE
- SPECIFICATIONS. 13. PROVIDE FULL COVERAGE OF GRASS AREAS AS SHOWN.
- 14. COORDINATE PLACEMENT OF IRRIGATION LINES WITH FIELD DRAINAGE SYSTEM.

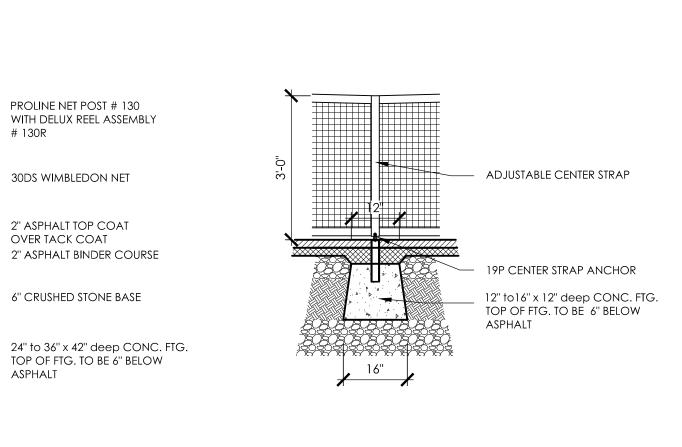






MEMORIAL FIELD







CENTER STRAP DETAIL SCALE: 1/2" = 1'-0"

TENNIS COURT EQUIPMENT

CENTER STRAP ANCHOR 9" 19P PIPE TYPE

NET ELEVATION

THE CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL THE FOLLOWING ITEMS (TYPICAL AT ALL NEW TENNIS COURTS):

OVER TACK COAT

NETS 30DS WIMBLEDON NET BSN SPORTS PRODUCTS 1-800-527-7510 CENTER STRAPS 2" WIDE ADJUSTABLE CENTER STRAP BSN SPORTS PRODUCTS 1-800-527-7510 NET POSTS PROLINE 130 NET POST

LEE TENNIS PRODUCTS 1-800- FAST DRY REEL ASSEMBLY DELUXE REEL ASSEMBLY 130R LEE TENNIS PRODUCTS 1-800- FAST DRY

LEE TENNIS PRODUCTS 1-800- FAST DRY

ALL CONCRETE FOOTINGS FOR NETS MUST BE HELD 6" BELOW FINISH ASPHALT. IF FOOTINGS ARE SAWCUT AND INSTALLED AFTER THE NEW ASPHALT IS INSTALLED ASPHALT SHALL BE INSTALLED OVER THE

FOOTINGS FOR FENCE POSTS SHALL BE HELD 8" BELOW THE TOP OF ASPHALT

ACRYLIC PATCH BINDER

TOP OF THE FOOTING AND THE AREA SHALL BE

PATCHED AND MADE SMOOTH WITH DECO COLOR

SCALE: 1/4" = 1'-0"

PROLINE NET POST # 130 WITH DELUX REEL ASSEMBLY - ADJUSTABLE CENTER STRAP - 30DS WIMBLEDON NET 19P CENTER STRAP ANCHOR 24" to 36" x 42" deep CONC. FTG. 12" to 16" x 12" deep CONC. FTG. TOP OF FTG. TO BE 6" BELOW TOP OF FTG. TO BE 6" BELOW ASPHALT **ASPHALT**

WALKWAY DETAIL

SEAL SEAMS WHERE NEW AND EXISTING ASPHALT MEET

NOTE:
ALL COLORING IS TO BE BY DECO SURFACING SYSTEMS 1-800-332-6178, INFO@DECOTURF.COM OR APPROVED EQUAL. MECHANICALL MIX ALL PRODUCTS IN PROPER RATIOS WITH POTABLE WATER AS PER THE MANUFACTURE. INSTALL AS PER THE MANUFACTURERS PUBLISHED INSTALLATION DECO TURF SYSTEM - ALTERNATE # BID

NEW 12" x 18" CURB AT EAST SIDE ONLY. SEE

5" THK CONCRETE

SIDEWALK SEE

PLAN FOR TOP OF CURB AND ASPHALT

2 - #5 BAR CONTINUOUS 4"

CLEAR ON ALL SIDES.

5" THICK CONC

HOLD FENCE POST

FOOTINGS 8" BELOW

SLAB TO CURB

TOP OF NEW CURBING

ELEVATIONS

(1) — FILLER COURSE TWO COATS OF ACRYLIC RESURFACER 920-29

(2) — HEAVY RUBBER COURSE THREE COATS OF DECOTURF II 920-30 (3) — FINE RUBBER COURSE

INSTRUCTIONS.

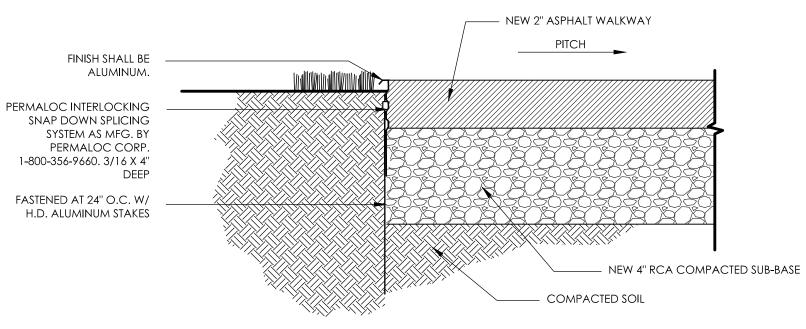
(4) — TEXTURE COURSE TWO COATS OF DECOCOLOR MP 920-27 MIXED WITH DECO BASE I 920-05

(5) — FINISH COURSE ONE COAT OF DecoColor MP CLASSIC 920-27 (WITHOUT SAND)

TWO COATS OF DECOBASE II 920-06

6 — LINES WHITE LINE PAINT 920-22 2" TYPE 7 ASPHALT TOP COAT TACK COAT 2" TYPE 6F BINDER COURSE 6" MIN. GRAVEL STRUCTURALLY COMPACTED (NO RCA)

COLOR SURFACING DETAIL



ASPHALT WALKWAY

SCALE: 3" = 1'-0 ASPHALT EDGE DETAIL

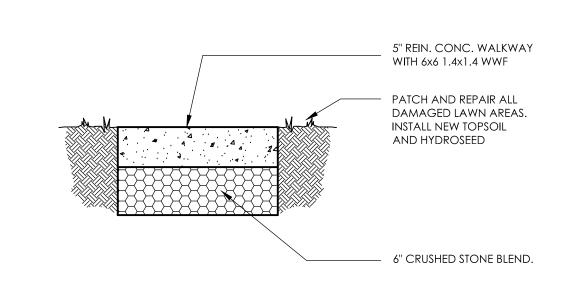
GENERAL NOTES:

REMOVE LAWN AREA AND IMPORT CLEAN FILL AND 4" RCA BASE AS REQUIRED TO ACHIEVE NEW GRADES

- FURNISH AND INSTALL NEW 5'-0" WIDE ASPHALT WALKWAY. AS DETAILED THIS SHEET.
- RAKE OUT AND RE-GRADE ALL AREAS W/IN 3'-0" OF NEW
- WALKWAY. HYDRO SEED ENTIRE AREAS AT COMPLETION OF RE-GRADING.

COLOR COAT SYSTEM AS DETAILED 2"" TYPE 7 ASPHALT TOP COAT. - 2" TYPE 6F BASE COURSE 4" MIN. CRUSHED RCA STONE BLEND COMPACTED FILL - STRUCTURALLY COMPACTED

FULL DEPTH ASPHALT AT TENNIS COURTS



SCALE: 1" = 1'-0"

SCALE: 1 1/2" = 1'-0"

4" DELUXE

GATE DETAIL SCALE: NOT TO SCALE

TOP RAIL OF FENCE TO BE LEVEL AROUND TENNIS COURTS. ADJUST POST AND FABRIC HEIGHTS AS REQUIRED. 1 5/8" MID RAIL —— 1 5/8" MID RAIL 3" CORNER POST 3" MID LINE POST 9ga. 1 3/4" FABRIC OFFSET HINGE ALL PARTS OF NEW FENCE INCLUDING MESH SHALL BE BLACK VINYL COATED - 1 5/8" MID RAIL 1 5/8" MID RAIL 9ga. 1 3/4" FABRIC GATE TO BE PROVIDED WITH LOCKABLE LATCH 1 5/8" BTM. RAIL ____ 1 5/8" BTM RAIL SEE COURT CROSS SECTION FOR INFO 12" dia. x 36" deep CURB AROUND TENNIS CONC. FTG. AT POST COURTS VARY, SEE TOP OF FTG. 8" BELOW PLAN FOR SIZES. TOP OF CURB 12" dia. x 36" deep CONC. FTG. AT POST TOP OF FTG. 8" BELOW TOP OF CURB

POST DETAIL

SCALE: NOT TO SCALE

1 5/8" TOP RAIL

EDGE OF

CURB & TRENCH DRAIN DETAIL

PROVIDE EXPANSION JOINTS IN NEW CURB

20'-0" O.C. MAXIMUM

SEE PLAN FOR TOP OF CURB

TACK COAT

ACO TYPE 4010 TRENCH DRAIN WITH ADA GRATE.

AS SHOWN AND CONNECT TO DRAIN PIPING WITH 6" ADS

PROVIDE INLINE CATH BASINS

2" THICK TYPE 7 TOP COURSE

— 2" THICK TYPE 6F BASE COURSE

4" min. CONCRETE AROUND

6" CRUSHED STONE BLEND

SEE PLAN FOR LOCATION.

- FENCE POST FTG. BEYOND

SCALE: 1" = 1'-0"

IN-LINE CATCH BASIN AND PIPING BEYOND

ACO CHANNELS

ALL (3) SIDES

PIPING AND TRANSITIONS TO 8" PIPE

ADA GRATE W/ LOCK DOWN BOLT

AND ASPHALT ELEVATIONS.

NEW FENCE

POST BEYOND

CURB

FENCE ENCLOSURE NOTES - ALL PARTS OF NEW FENCE SHALL BE BLACK

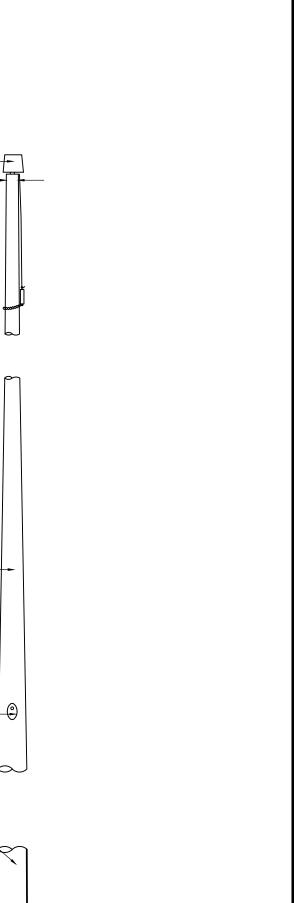
- 1. ALL POSTS TO BE 3" .O.D. SCHEDULE 40 PIPE SPACED NOT MORE THAN 8'-0" APART
- 2. ALL CHAINLINK TO BE 9ga. 1 3/4" MESH PVC COATED, FUSED BONDED FABRIC, KNUCKLED. THE CHAIN LINK FABRIC MUST BE 9 GA. PRIOR TO PVC COATING. 6 GA. FINAL SIZE.
- 3. PROVIDE 1 5/8" O.D. GALV. TOP RAIL, MID RAILS AND BOTTOM RAIL. TYPICAL FOR ALL FENCING WHERE SHOWN. HOLD BOTTOM OF RAIL 2" ABOVE CURB. ALL TO BE BLACK TYPICAL
- INSTALLATION INCLUDING BUT NOT LIMITED TO, TENSION BANDS, POST CAPS, LOOP CAPS, SLEEVES, CLAMPS, TIES, GATES, HINGES, AND LOCKING DEVICES

4. PROVIDE ALL HARDWARE (BLACK) REQUIRED FOR A COMPLETE

- 5. ALL PIECES OF THE FENCE ASSEMBLY ARE TO BE AS MANUFACTURED BY BOUNDARY FENCE & RAILING SYSTEMS, INC. 1-718-847-3400 OR APPROVED EQUAL.
- 6. TOP OF FENCE POST FOOTINGS SHALL SET 8" BELOW TOP OF NEW

CURBING

MEMORIAL FIELD



CAST ALUMINUM HEAD _____

NOTE: PROVIDE 8' X 12'

W/ FLAGPOLE

OUTDOOR NYLON USA FLAG

TAPERED ALUM. POLE, ALLOY

6063-T6 SEAMLESS TUBE W/ A

ALUMINUM ACCESS DOOR W/ -

7" BUTT. DIA. X .188 WALL

CLEAR SILICONE CATUR

FINISH TO MATCH POLE 2" WATERPROOF SEALANT

(4) HARDWOOD WEDGES

AND SOIL CONDITIONS)

3000 PSI CONCRETE FLAG POLE FOUNDATION (VERIFY SIZE WITH MFGR

4 STL. WEDGES WELDED TO SLEEVE EACH @ 90 DEG. TO CENTER POLE

STL. BASE PL. WELDED TO SLEEVE -

3/4" DIA. STL. LIGHTNING SPIKE

WELDED TO SLEEVE

DRY SAND TAMPED IN PLACE AFTER PLUMBING

16GA. CORR. GALV. STL. FOUNDATION SLEEVE

6 SQ. IN. STL. SUPPORT PL. WELDED TO SPIKE

— 1 5/8" TOP RAIL

THICKNESS x 35'0 HIGH ALUMINUM

SPUN ALUMINUM FLASH COLLAR

SHAFT (EXPOSED HEIGHT) 3" DIA. AT

CYLINDER LOCK AND CAST

ALUMINUM REINFORCED

FLAG POLE GROUND MOUNT DETAIL

FURNISH AND INSTALL A TAPERED ARCHITECTURAL GROUND SET ALUMINUM FLAGPOLE COMPLETE WITH INTERNAL HAYLARD SYSTEM AS MANUFACTURED BY

POLE-TECH CO. OR EQUAL. FLAGPOLE TO BE GROUND SET STANDARD TYPE,

METAL TUBE, CAULKING ALUMINUM FLASH COLLAR REQUIRED FOR COMPLETE

THIRTY FEET (35') EXPOSED HEIGHT ABOVE GROUND. THE OUTSIDE BUTT DIAMETER SHALL BE SEVEN(7") (.188") WALL THICKNESS AND TAPERED TO 3". POLE AND FITTINGS SHALL BE CLEAR ANODIZED. PROVIDE ALL REQUIRED PIPE SLEEVES, ANCHOR BOLTS, BACK PLATES, LIGHTING GROUND SPIKE WEDGES,

GROUND MOUNTING. THE UNEXPOSED PORTION OF FLAGPOLE BELOW GROUND SHALL RECEIVE A HEAVY COAT OF ASHALTUM INSIDE AND OUTSIDE.

FURNISH ONE (1) 8 X 12 = USA FLAG, NYLON.

HANDHOLE FRAME

3'-0"

POLISHED SATIN BRUSH FINISH,

FOLLOWED BY A CLEAR ANODIZED

3" TOP DIA. -





NOTE:

THE CONTRACTOR MUST PERFORM A DETAILED INVESTIGATION OF THE SITE(S). THE INVESTIGATION IS TO BE SUFFICIENT ENOUGH TO DISCLOSE THE CONDITIONS OF THE SITE(S) AND ALL IMPROVEMENTS THEREON AT WHICH WORK IS TO BE PERFORMED BY THE CONTRACTOR, AND THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED INCLUDING, BUT NOT LIMITED TO (A) THE LOCATION, CONDITION, LAYOUT AND NATURE OF THE PROJECT SITE AND SURROUNDING AREAS; (B) THE COST AND AVAILABILITY OF LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PERFORM THE WORK; (C) THE AREAS OF THE WORK WHICH WILL CAUSE A DISRUPTION TO THE NECESSARY AND PROPER OPERATION OF THE FACILITIES BY THE OWNER; AND (D) OTHER PERTINENT LIMITATIONS ON THE PERFORMANCE OF ITS WORK. THERE WILL BE NO ADDITIONAL COSTS ALLOWED BY THE CONTRACTOR FOR ITEMS THAT COULD HAVE BEEN DISCOVERED HAD A DETAILED SITE INVESTIGATION BEEN PERFORMED PRIOR TO SUBMITTING THEIR BID.

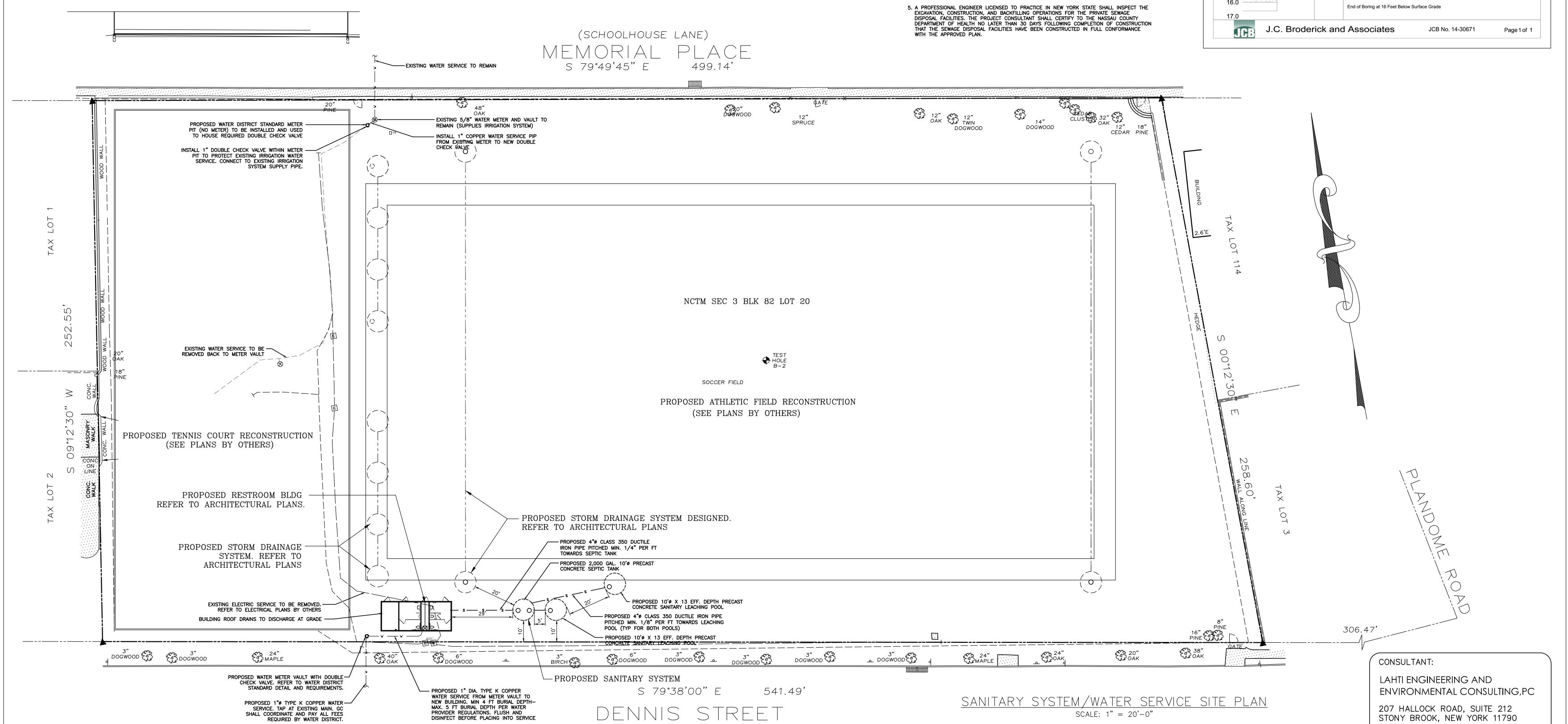
> * AS PER THE NCHD, A CRANE DUG TEST HOLE MUST BE EXCAVATED TO EVALUATE THE SOIL AND DEMONSTRATE THE PRESENCE OF A MINIMUM OF SIX (6) FEET OF RATEABLE LEACHING SOIL BELOW THE BOTTOM OF THE LEACHING POOL. DUE TO THE LIMITED PROJECT SCOPE AND SCHOOL USE, THE SCHOOL DISTRICT IS REQUESTING PERMISSION TO DIG THE TEST HOLE AT TIME OF POOL INSTALLATION. THE PROPOSED MINIMUM POOL DEPTH SHALL BE MODIFIED TO PROVIDE THE REQUIRED RATEABLE SOIL.

- 1. THERE ARE NO STORMWATER LEACHING POOLS WITHIN 20 FT OF THE PROPOSED SEPTIC TANK OR LEACHING POOL.
- 2. THERE ARE NO WATER SUPPLY WELLS WITHIN 200 FEET OF THE PROPOSED SEPTIC SYSTEM. 3. AN APPROVED BACKFLOW PREVENTION DEVICE MUST BE INSTALLED ON THE WATER SERVICE FOR THE PROPOSED RESTROOM BLDG. CONTRACTOR SHALL OBTAIN BACKFLOW PREVENTION DEVICE PERMIT FROM WATER SUPPLIER.
- 4. WATER MAIN PROTECTION- THE MINIMUM HORIZONTAL AND VERTICAL CLEARANCE BETWEEN A WATER MAIN/WATER SERVICE LINE AND SEPTIC PIPING SHALL BE 10.0 FEET AND 18 INCHES

SCALE: 1" = 20'-0"

SITE PLAN PREPARED BASED ON SURVEY PROVIDED BY BARRETT BONACCI & VAN WEELE, P.C. LAST UPDATED 1-20-2015

PROJECT NAME: Memorial Park PROJECT ADDRESS: 200 Memorial Place, Manhasset, NY 11030 BORING LOCATION: DRILLING CONTRACTOR: JC Broderick & Associates, Inc. East Side of Athletic Field GROUND SURFACE ELEVATION: MEASURING POINT: DRILLING METHOD: 2.25 inch Direct Push Rods 111 Feet Above Sea Level Ground Surface DATE: START TIME: WEATHER: DRILLING EQUIPMENT: Geoprobe® 5410 12-31-14 10:00 AM Cloudy 29°F TOTAL DEPTH BELOW SURFACE GRADE: MC5® Soil Sampling System SAMPLING METHOD: Approximately 16 Feet bsg Tyler Anderson Not Encountered RESPONSIBLE PROFESSIONAL: APPROXIMATE DEPTH TO GROUNDWATER: Jeffrey Nannini DESCRIPTION DEPTH LITHOLOGIC USCS NAME (USCS): color, moisture, plasticity density SYMBOL Recovery LOG Dark Brown Silty to Fine SAND Light Brown Fine SAND with Trace Gravel Tan Silty to Fine SAND Light Brown Fine SAND with Trace Gravel 7.0 Light Brown Fine SAND with Few Silt Light Brown Silty to Fine SAND 9.0 10.0 Light Brown Fine SAND with Trace Gravel 11.0 12.0 13.0 14.0 100% Light Brown Fine to Medium SAND 15.0 16.0 End of Boring at 16 Feet Below Surface Grade J.C. Broderick and Associates JCB No. 14-30671 Page 1 of 1

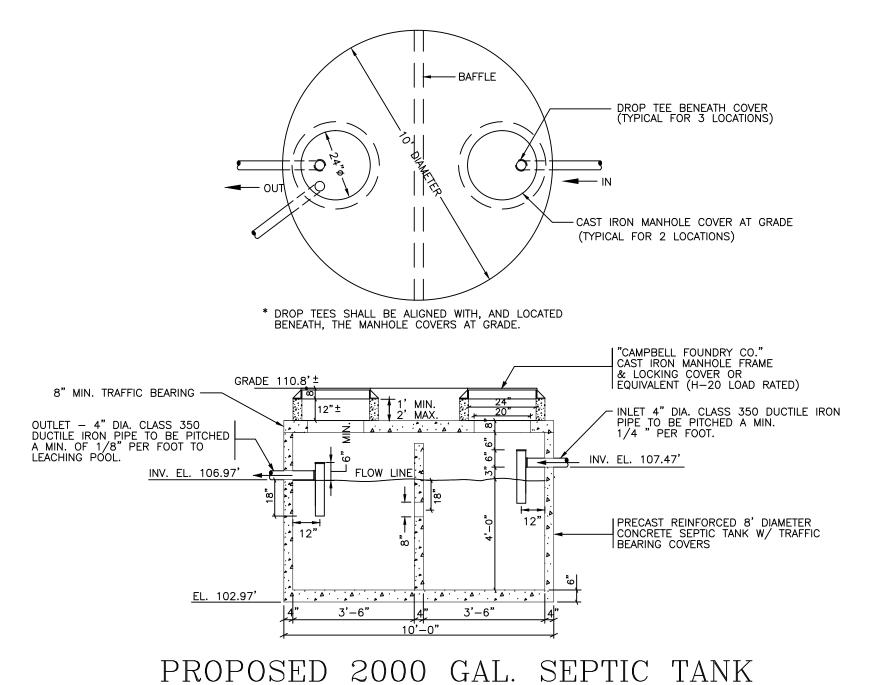


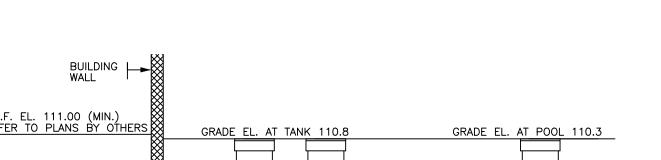
MEMORIAL FIELD

C - 100

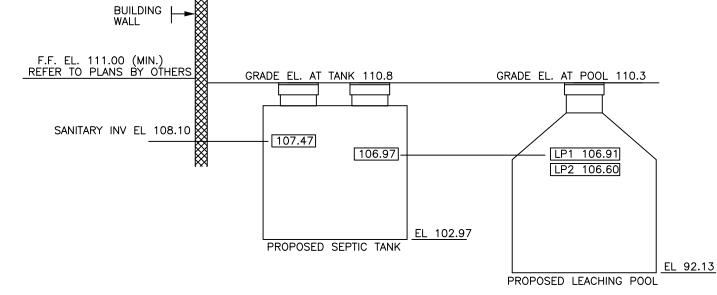
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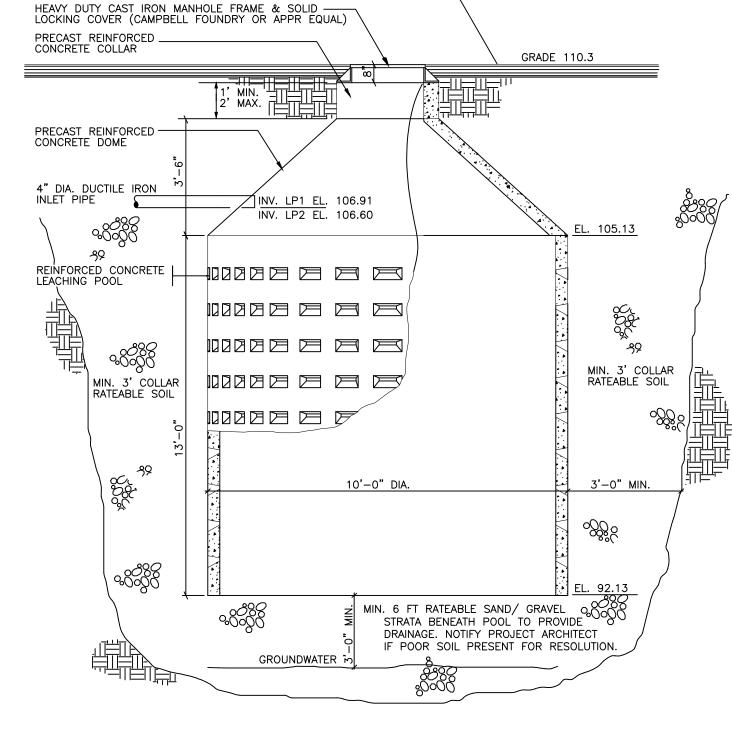


SCALE-----N.T.S.



PROPOSED SEPTIC SYSTEM PROFILE

SCALE----N.T.S.



SEPTIC SYSTEM LEACHING POOL SCALE---- N.T.S.

SANITARY FLOW CALCULATIONS-

SITE: NCTM#3-82-20

OUTFALL 001 — PROPOSED RESTROOM BUILDING: FOUR TENNIS COURTS: 4 COURTS X 200 GPD/COURT = 800 GPD

SOCCER FIELD: 1 FIELD X 2 GAMES PER DAY X 18 PLAYERS PER TEAM X 2 TEAMS X (5 GPD/CAPITA) = 720 GPD TOTAL FLOW TO PROPOSED SANITARY SYSTEM = 800 + 720 = 1520 GPD

PROPOSED OUTFALL 001 SANITARY SYSTEM COMPONENTS

MIN. SEPTIC TANK CAPACITY = 1 DAY X 1520 GPD = 1520 GALS *PROPOSE 2,000 GALLON SEPTIC TANK

MIN LEACHING AREA = 1520 GPD/ (2 GAL/SF-DAY) = 760 SF SIDEWALL AREA (760 SF) / (31.4 SF PER FT OF 10' DIA. RING) = 24.2 VLF MIN.

*PROPOSE (2) 10'ø X 13 VLF LEACHING POOL * SOIL LEACHING RATE BASED ON SOIL BORINGS BY JCB ASSOCIATES PERFORMED 12-31-2014

DEMOLITION NOTES

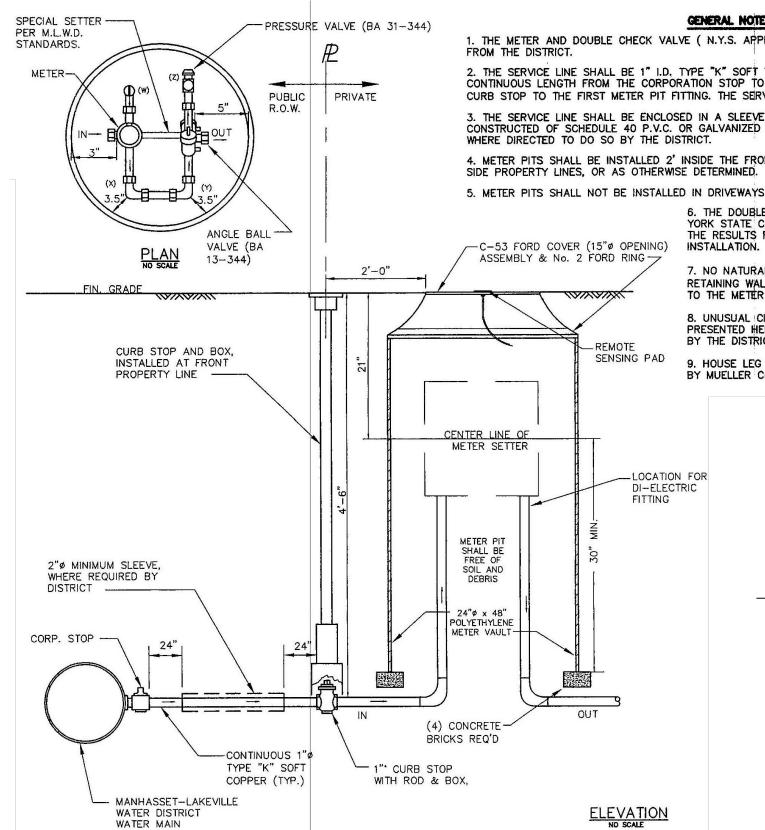
- 1. THE CONTRACTOR SHALL INSTALL A 6'-0" HIGH TEMPORARY CHAIN LINK FENCE, WITH GATES TO SECURE THE WORK AREA. ACCESS GATES SHALL BE PROVIDED WITH A PADLOCK & CHAIN AND SHALL BE LOCKED AT ALL TIMES. AT PROJECT COMPLETION THE ENTIRE TEMPORARY FENCE AND ALL TEMPORARY CONCRETE FOOTINGS SHALL BE REMOVED FROM THE EXISTING SITE. ALL EXISTING SITE FINISHES DISTURBED BY THE INSTALLATION OF THE TEMPORARY FENCE SHALL BE RETURNED TO MATCH THEIR ORIGINAL CONDITION AS A MINIMUM OR AS CONDITIONS ARE MODIFIED/ UPDATED BY DIRECTION OF THIS PROJECT. ACCESS TO THE REAR OF THE SCHOOL MUST BE KEPT AVAILABLE AT ALL TIMES. CONTRACTOR SHALL MINIMIZE AMOUNT OF AREA CONTAINED WITHIN WORK AREA PERIMETER FENCE. FINAL PLACEMENT OF FENCE SHALL BE SUBJECT TO APPROVAL BY
- 2. THE CONTRACTOR SHALL INSTALL SILT FENCE TO PREVENT ANY & ALL STORMWATER RUNOFF INTO NEIGHBORING AREAS AND ADJOINING PROPERTIES. REFER TO NYSDEC EROSION AND SEDIMENT CONTROL STANDARDS FOR IMPACT MITIGATION MEASURES.
- 3. PRIOR TO BEGINNING ANY WORK THE GENERAL CONTRACTOR SHALL VERIFY, LOCATE AND MARK THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. MARKERS SHALL REMAIN CLEAR & VISIBLE THROUGHOUT THE DEMOLITION & CONSTRUCTION PHASE AS REQD.
- 4. PRIOR TO BEGINNING ANY WORK THE GENERAL CONTRACTOR SHALL BECOME FAMILIAR WITH THE ENTIRE SCOPE OF WORK REQUIRED. REFER TO ALL PLANS & SPECIFICATION DOCUMENTS.
- 5. ALL EXISTING TREES & SHRUBBERY WHICH ARE TO REMAIN SHALL BE PROTECTED THROUGHOUT ALL PHASES OF DEMOLITION/ CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMP SNOW FENCING TO PROTECT ALL TRÉES & SHRUBS WHICH ARE LOCATED IN OR ADJACENT TO THE WORK AREA.
- 6. G.C. SHALL TAKE EXTREME CAUTION IN PREPARATION & EXECUTION OF ALL PHASES OF WORK SO AS NOT TO DISTURB ANY & ALL ADJACENCIES INCLUSIVE OF BUT NOT LIMITED TO NEIGHBORING PROPERTIES, EXISTING FENCES, POWER POLES, ETC.. ALL DAMAGES SHALL BE REPAIRED &/OR REPLACED AT THE GENERAL CONTRACTOR'S SOLE EXPENSE UNDER THE DIRECTION/ SUPERVISION OF THE ARCHITECT. ALL SUCH ITEMS OF REPAIR/ REPLACEMENT SHALL BE COMPLETED TO THE FULL EXTENT & SATISFACTION OF THE ARCHITECT.
- 7. UPON COMPLETION OF CONSTRUCTION, ALL STORMWATER LEACHING POOLS, CATCH BASINS, AND DRAINS WITHIN 50 FEET OF THE PROJECT AREA SHALL BE INSPECTED TO ENSURE CONSTRUCTION DEBRIS, BACKFILL, ETC. DID NOT ENTER DURING CONSTRUCTION. ALL SUCH DEBRIS, BACKFILL, ETC. SHALL BE REMOVED AND PROPERLY DISPOSED OF OFF-SITE.
- 8. ALL FILL USED TO ABANDON EXISTING UNDERGROUND STRUCTURES, REGRADE, ETC. SHALL BE GRANULAR MATERIAL, FREE OF DELETERIOUS MATERIAL, AND SHALL BE COMPACTED IN MAXIMUM 12" LIFTS TO A MINIMUM PROCTOR DENSITY OF 95%.
- 9. ALL DEMOLITION AND CONSTRUCTION DEBRIS SHALL BE CARTED OFF SITE AND LEGALLY DISPOSED OF AT THE GC'S SOLE COST.
- 10. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MARKING OUT ALL EXISTING IRRIGATION SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO HEADS, VALVES AND PIPING THAT LIE WITHIN THE PROJECT AREA. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING, REPAIRING, AND MAKING THE IRRIGATION SYSTEM FULLY, AND PROPERLY, OPERATIONAL AGAIN AT THE CONCLUSION OF CONSTRUCTION. ALL TURF LOST DUE TO LACK OF IRRIGATION SHALL BE RESTORED TO PRECONSTRUCTION CONDITIONS

AT THE SITE CONTRACTORS SOLE EXPENSE.

11. THE EXISTING WATER AND ELECTRIC SERVICES MUST BE REMOVED/MODIFIED TO ALLOW CONSTRUCTION OF THE BUILDING. REFER TO PLANS BY OTHERS FOR REMOVAL/MODIFICATION

NCHD SANITARY SYSTEM GENERAL NOTES

- 1. EXISTING SITE PLAN INFORMATION BASED ON SURVEY BY BARRETT BONACCI & VAN WEELE, P.C. LAST DATED JANUARY 20, 2015.
- 2. REFER TO SOIL BORING REPORT FOR SOIL CHARACTERISTICS.
- 3. PROPOSED GRADES SHOWN HEREON ARE BASED ON EXISTING GRADES AS SHOWN ON THE SURVEY. 4. ALL PIPING TO BE CLASS 350 DUCTILE IRON IN ACCORDANCE WITH NCHD REQUIREMENTS.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT UNDERGROUND PIPING, STRUCTURES, ETC. ARE NOT DAMAGED BY CONSTRUCTION ACTIVITIES INCLUDING,
- BUT NOT LIMITED TO, BACKFILLING AND COMPACTION. REPAIRS SHALL BE AT THE CONTRACTOR'S SOLE COST. 6. SEPTIC TANK, LEACHING POOLS AND ASSOCIATED PARTS SHALL BE PRECAST, REINFORCED CONCRETE SUITABLE FOR H20 LOADS.
- 7. ALL CAST IRON FRAMES AND COVERS SHALL BE SUITABLE FOR H20 LOADS. COVERS SHALL BE "LOCKING" TYPE TO MITIGATE UNAUTHORIZED OPENING.
- 8. ALL FILL AND BACKFILL SHALL BE GRANULAR MATERIAL (SAND AND GRAVEL) FREE OF ORGANIC AND OTHER DELETERIOUS MATERIALS. ALL FILL AND BACKFILL SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY (UNLESS OTHERWISE NOTED) IN MAXIMUM 12" LIFTS INCLUDING ALL EXCAVATIONS RESULTING FROM REMOVED AND NEW POOLS. 9. ALL LEACHING POOLS ARE DESIGNED IN ANTICIPATION OF FINDING SOIL AT THE LOCATION OF THE POOL WITH A MINIMUM LEACHING RATE AS INDICATED IN THE
- DESIGN CALCULATIONS. IF POOR DRAINING SOIL IS ENCOUNTERED, CONTRACTOR SHALL NOTIFY PROJECT ENGINEER FOR EVALUATION AND POSSIBLE RE-DESIGN OF
- 10. ALL IMPROVEMENTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND LOCAL REGULATORY REQUIREMENTS. 11. LOCATION OF EXISTING UNDEGROUND IMPROVEMENTS NOT GUARANTEED AS THEY ARE GENERALLY NOT ACCESSIBLE AT GRADE AND AS-BUILT PLANS WERE NOT
- AVAILABLE. INFORMATION SHOWN HEREON IS BASED UPON LIMITED FIELD INVESTIGATION. IF OBSTRUCTIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER FOR EVALUATION AND RESOLUTION.
- 12. NON-PAVED AREAS DISTURBED BY CONSTRUCTION THAT ARE NOT TO BE REPAVED ARE TO BE COVERED WITH MIN 3" THICK LAYER OF SCREENED TOPSOIL AND HYDROSEEDED (GRASS). TOPSOIL TO BE RAKED SMOOTH AND GRADED TO MEET ADJACENT GRADES AND TOP OF PAVEMENT.
- 13. ALL NEW PIPING IS TO BE LEAK TESTED BY THE CONTRACTOR PRIOR TO BACKFILLING, IN ACCORDANCE WITH ASTM RECOMMENDED PRACTICES AND LOCAL
- 14. ALL TREES AND SITE IMPROVEMENTS DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE PROJECT BY THE G.C. USING SNOW FENCING OR OTHER APPROPRIATE MEANS. ALL DAMAGE SHALL BE REPAIRED AT THE CONTRACTORS SOLE COST TO THE SATISFACTION OF THE PROJECT ENGINEER. 15. G.C. SHALL BE RESPONSIBLE FOR PREPARING ACCURATE AS-BUILT PLANS AND INSTALLATION CERTIFICATION FOR ALL IMPROVEMENTS INSTALLED AS PART OF THIS
- PROJECT. PLANS MUST INCLUDE INVERT ELEVATIONS, SIZES, AND MATERIAL OF CONSTRUCTION FOR PIPING. PLANS AND CERTIFICATION TO BE SUBMITTED TO OWNER AND PROJECT ENGINEER. NCHD REQUIRES DESIGN ENGINEER TO SUPERVISE CONSTRUCTION OF THE SANITARY SYSTEM. CONTRACTOR SHALL NOTIFY PROJECT ENGINEER OF PROJECT COMMENCEMENT A MINIMUM OF 3 DAYS IN ADVANCE. CONTRACTOR'S WORK SCHEDULE SHALL BE SUBJECT TO MODIFICATION BASED ON AVAILABILITY OF ENGINEER FOR INSPECTIONS.
- 16. THE CONTRACTOR SHALL EMPLOY WHATEVER METHODS ARE NECESSARY TO ENSURE A STABLE EXCAVATION AND WORK AREA PER OSHA REQUIREMENTS. SUCH
- METHODS SHALL INCLUDE, IF NECESSARY, THE INSTALLATION OF SHEET PILING. 17. SHALL BE A MINIMUM OF 10 FEET MAINTAINED BETWEEN THE SEPTIC TANK/SEPTIC LEACHING POOLS, AND ALL POTABLE WATER SERVICE PIPES.
- 18. THERE SHALL BE A MINIMUM OF 5 FEET MAINTAINED BETWEEN THE SANITARY LEACHING POOL AND THE SEPTIC TANK.
- 19. THERE SHALL BE A MINIMUM OF 20 FEET MAINTAINED BETWEEN STORM DRAINAGE POOLS AND SANITARY SEPTIC TANK/LEACHING POOLS. 20. THERE SHALL BE A MINIMUM OF 10 FEET MAINTAINED BETWEEN THE BUILDING AND SEPTIC TANK.
- 21. THERE SHALL BE A MINIMUM OF 20 FEET MAINTAINED BETWEEN THE BUILDING AND SANITARY LEACHING POOL.
- 22. THERE SHALL BE NO COOKING WITHIN THE PROPOSED BUILDING.



1. THE METER AND DOUBLE CHECK VALVE (N.Y.S. APPROVED) ASSEMBLY, FEBCO 805Y SHALL BE PURCHASED 2. THE SERVICE LINE SHALL BE 1" I.D. TYPE "K" SOFT TEMPER COPPER TUBING. THE SERVICE MUST BE ONE CONTINUOUS LENGTH FROM THE CORPORATION STOP TO CURB STOP AND ONE CONTINUOUS LENGTH FROM THE CURB STOP TO THE FIRST METER PIT FITTING. THE SERVICE SHALL HAVE 4'-6" OF COVER. 3. THE SERVICE LINE SHALL BE ENCLOSED IN A SLEEVE, NO SMALLER THAN 2" INSIDE DIAMETER, AND CONSTRUCTED OF SCHEDULE 40 P.V.C. OR GALVANIZED IRON WHEN THE SERVICE IS BENEATH PAVEMENT OR 4. METER PITS SHALL BE INSTALLED 2' INSIDE THE FRONT PROPERTY LINE AND A MINIMUM OF 2' INSIDE THE SIDE PROPERTY LINES, OR AS OTHERWISE DETERMINED. 5. METER PITS SHALL NOT BE INSTALLED IN DRIVEWAYS OR PARKING AREAS.

6. THE DOUBLE CHECK VALVE ASSEMBLY MUST BE TESTED BY A NEW YORK STATE CERTIFIED BACKFLOW PREVENTION DEVICE INSPECTOR AND THE RESULTS FORWARDED TO THE DISTRICT WITHIN 30 DAYS OF 7. NO NATURAL OR MANMADE OBSTRUCTIONS (SUCH AS SHRUBBERY,

RETAINING WALLS, FENCES, ETC.) SHALL BE PLACED CLOSER THAN 24"
TO THE METER PIT COVER RIM. B. UNUSUAL CIRCUMSTANCES MAY PREVENT INSTALLATION AS PRESENTED HERE. SPECIAL PERMISSION MUST BE GRANTED IN ADVANCE BY THE DISTRICT FOR ANY DEVIATION FROM THIS STANDARD DETAIL. 9. HOUSE LEG SHALL HAVE A DI-ELECTRIC FITTING AS MANUFACTURED BY MUELLER Co. MODEL N-35403.

> THIS IS THE MANHASSET LAKE VILLE WATER DISTRICT STANDARD DETAIL FOR A 1" WATER SERVICE. FOLLOW ALL REQUIRED WATER DISTRICT DOUBLE CHECK VALVE SPECIFIED IN DISTRICT STANDARD DETAIL IS OBSOLETE. PURCHASE AND USE LATEST WATER DISTRICT APPROVED DCV.

NEW WATER SERVICE DETAIL SCALE---- N.T.S.

CONSULTANT:

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MEMORIAL FIELD