

IN-SITU SOLIDIFICATION

FOR

THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

VILLAGES OF HEMPSTEAD AND GARDEN CITY, NASSAU COUNTY, NEW YORK

PREPARED BY:

URS Corporation

77 Goodell Street, Buffalo, New York 14203
(716)856-5636 phone - (716)856-2545 fax

PREPARED FOR:

NATIONAL GRID

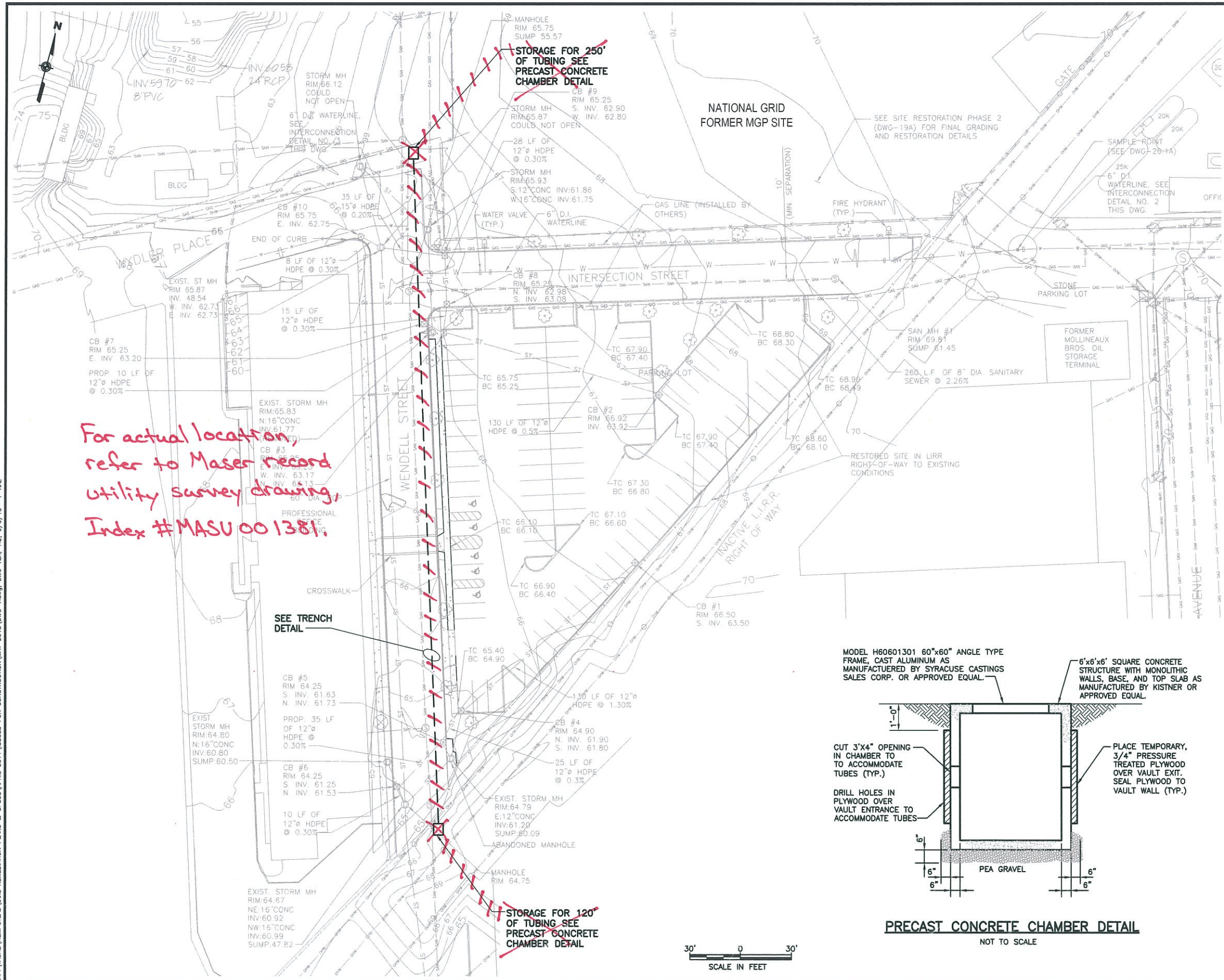
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

APRIL 2011

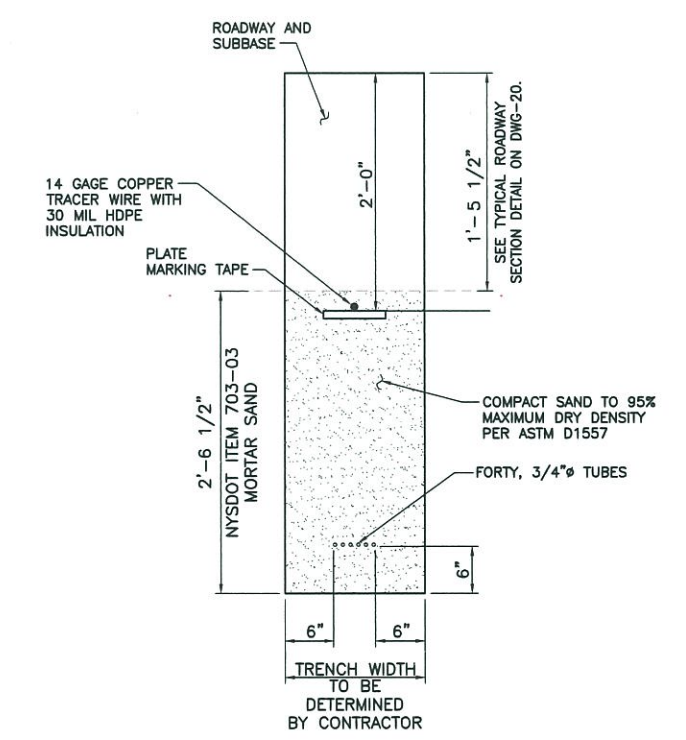
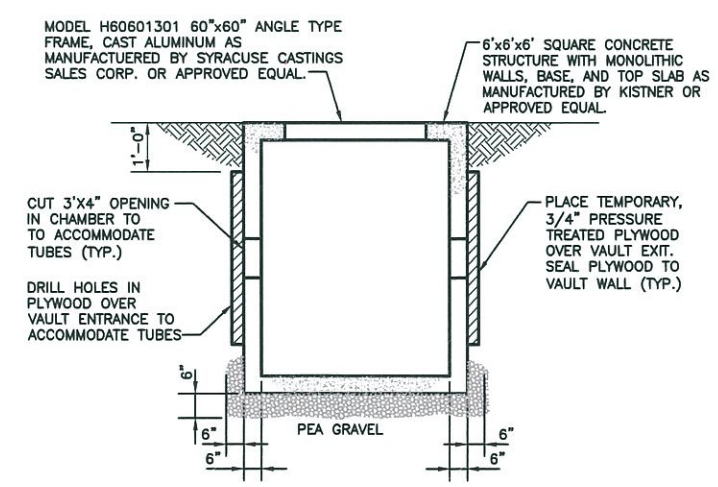
Record Redlines

*[See also Maser record survey
drawings that supplement these.]*

ISSUED FOR CONSTRUCTION



- LEGEND:**
- FENCE
 - X-X- FENCE
 - ▭ CONCRETE SIDEWALK
 - - - APPROXIMATE PROPERTY LINE
 - ⊠ CATCH BASIN
 - ⊙ TREE
 - ⊙ EXISTING STORM MANHOLE
 - ST — STORM SEWER LINE
 - SAN — SANITARY SEWER LINE
 - W — WATERLINE
 - GAS — GASLINE
 - GB — GROUND SURFACE CONTOUR
 - - - TUBING



REVISIONS

NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	KRJ	JAS	9/2013	ISSUED FOR CONSTRUCTION

DESIGNED BY: KRJ

DRAWN BY: RAL

CHECKED BY: JAS

PROJ. MGR. JAS

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JOB NO. 11176098

nationalgrid

175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

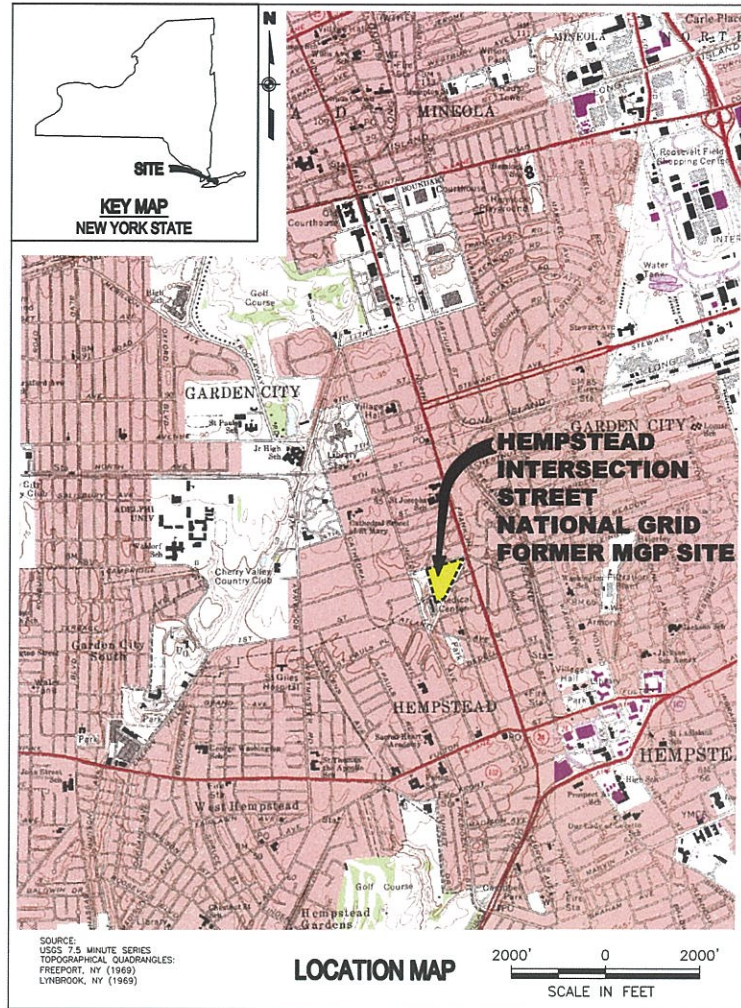
THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

EXTENSION OF OXYGEN GENERATION SYSTEM

Scale: AS SHOWN Date: SEPT. 2013 **DWG-1**

J:\11176098\00000\CAD\DRAWING\AS2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\MAY 2013\DWG 1BA, 12, 9/9/13 -1-RAL

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GENERAL NOTES

1. SOURCE BASE MAP IS URS CORPORATION TOPOGRAPHIC SURVEY PERFORMED NOVEMBER 2007.
2. HORIZONTAL DATUM IS REFERENCED TO US STATE PLANE 1983 ZONE: NEW YORK LONG ISLAND.
3. VERTICAL DATUM IS REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).
4. HORIZONTAL AND VERTICAL CONTROLS REFERENCED TO PREVIOUSLY ESTABLISHED CONTROL PREPARED BY NATIONAL GRID (FORMERLY KEYSpan). COORDINATES AND ELEVATIONS FOR THE SURVEY CONTROL POINTS ARE SHOWN ON DWG-3.
5. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS WERE OBTAINED FROM VARIOUS SOURCES AND SHALL BE CONSIDERED THE BEST AVAILABLE INFORMATION WITH COMPLETENESS AND ACCURACY UNKNOWN. THE CONTRACTOR IS CAUTIONED THAT ONLY EXCAVATION WILL REVEAL THE ACTUAL TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. OTHER BURIED OBJECTS OR UTILITIES MAY BE ENCOUNTERED WHICH ARE NOT SHOWN ON THESE DRAWINGS.
6. ALL MONITORING WELLS, NAPL WELLS AND PIEZOMETERS WITHIN THE PROPOSED SOLIDIFICATION AREAS SHALL BE DECOMMISSIONED IN ACCORDANCE WITH SPECIFICATION SECTION 02610. NATIONAL GRID MAY PERFORM ALL WELL DECOMMISSIONING. *URS performed decommissions*
7. SHOWN PROPERTY LINES WERE OBTAINED FROM A SURVEY PREPARED BY KEYSpan ENERGY (NOW NATIONAL GRID), TITLED "MAP OF P/O HEMPSTEAD GAS PLANT AREA TO BE LEASED" AND DATED JANUARY 24, 2007.
8. PRIOR TO CONSTRUCTION, ALL DIMENSIONS AND CONDITIONS OF EXISTING STRUCTURES AND UTILITIES IN OR ADJACENT TO THE DELINEATED REMEDIATION AREAS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
9. THE EXISTING GAS SUPPLY LINE, AS SHOWN ON DWG-12A, SHALL BE REMOVED, RELOCATED, AND RE-INSTALLED DURING THE NON-HEATING SEASON. THE NON-HEATING SEASON SHALL BE CONSIDERED APRIL 1 TO OCTOBER 31.

ABBREVIATIONS

A.C.	ASPHALT CONCRETE
BGS	BELOW GROUND SURFACE
BTEX	BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENE
CONC	CONCRETE
DSM	DEEP SOIL MIX
ELEV.	ELEVATION
FT	FEET
INC.	INCORPORATED
INV	INVERT
ISS	IN-SITU SOLIDIFICATION
LIPA	LONG ISLAND POWER AUTHORITY
LIRR	LONG ISLAND RAILROAD
MET	METEOROLOGICAL
MGP	MANUFACTURED GAS PLANT
MH	MANHOLE
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NAPL	NONAQUEOUS PHASE LIQUID
NEUT	NEUTRAL
NYS DOTSS	NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION
ND	NOT DETECTED
OHW	OVERHEAD WIRE (ELECTRIC)
POB	PROFESSIONAL OFFICE BUILDING
RCP	REINFORCED CONCRETE PIPE
RGS	RIGID GALVANIZED STEEL
PAH	POLYCYCLIC AROMATIC HYDROCARBONS
PLST	PLASTIC GAS LINE PIPE
PSI	POUNDS PER SQUARE INCH
ROW	RIGHT-OF-WAY
TEL	TELEPHONE
TYP.	TYPICAL
SAN	SANITARY
ST	STORM
ug/L	MICROGRAMS PER LITER
UK	UNKNOWN
UP	UTILITY POLE

INDEX OF DRAWINGS

DRAWING NO.	DESCRIPTION
1	COVER
2.1	INDEX OF DRAWINGS, ABBREVIATIONS, NOTES AND LOCATION MAP
2.2	LEGEND
3	EXISTING SITE PLAN SHOWING FORMER MGP STRUCTURES
4	EXISTING SITE UTILITIES
5A	SOLIDIFICATION METHODS LAYOUT
6A	WEST/EAST CROSS SECTIONS
7A	SOUTH/NORTH CROSS SECTIONS
8A	TOP OF SOLIDIFICATION
9A	BOTTOM OF SOLIDIFICATION
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11	INFRASTRUCTURE DECOMMISSIONING PLAN
12A	UTILITY PROTECTION AND DECOMMISSIONING PLAN
13A	CONSTRUCTION SEQUENCING PLAN (SHEET 1 OF 2)
14A	CONSTRUCTION SEQUENCING PLAN (SHEET 2 OF 2) <i>(revised)</i>
15A	TRAFFIC PLAN FOR CONSTRUCTION
16A	EXCAVATION PLAN
17A	EXCAVATION CROSS SECTIONS
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19A	SITE RESTORATION PHASE 2 <i>(revised)</i>
20	PAVING AND DRAINAGE DETAILS
21.1	REMEDICATION DETAILS (SHEET 1 OF 2)
21.2	REMEDICATION DETAILS (SHEET 2 OF 2)
22	EROSION AND SEDIMENT CONTROL DETAILS
23	FENCE AND LANDSCAPE DETAILS
24	HANDICAP RAMP AND SIGNAGE DETAILS
25	PARKING LOT AND APPROACH DETAILS
26	UTILITY ADJUSTMENT AND ABANDONMENT DETAILS
26.1A	UTILITY ADJUSTMENT AND ABANDONMENT DETAILS
26.2A	UTILITY ADJUSTMENT AND ABANDONMENT DETAILS
27	SITE LIGHTING PLAN <i>(revised)</i>
28	ELECTRICAL DETAILS
29	EXAMPLE TEMPORARY FACILITIES LAYOUT
30	EXISTING LIPA OVERHEAD WIRES PLAN AND PROFILE LIRR RIGHT OF WAY
31A	SOLIDIFICATION TOP/BOTTOM LAYOUT PLAN
32A	SOLIDIFICATION TOP/BOTTOM LAYOUT TABLE

- 1 Extension of Oxygen Generation System*
- 16A-1 Proposed Excavation Contouring*
- 18A-1 Site Restoration Phase 1*
- 19A-1 Site Restoration Phase 2 Plantings*
- 21.3 Soil Crete Wall Detail*

THIS DRAWING CONTAINS FEATURES INTENDED TO BE PRINTED IN COLOR AS SHOWN ON ORIGINAL CONTRACT DRAWINGS. REPRODUCTION IN BLACK AND WHITE MAY OBSCURE THE INTENDED EFFECT OF THE COLOR FEATURES.

ISSUED FOR CONSTRUCTION

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
4	RJP	JAS	9/2011	INSERTED PSI WITH DEFINITION
3	RJP	JAS	8/2011	DRAWING INDEX REVISED FOR DSM-ONLY
2	RJP	JAS	8/2011	NOTE 9 DATES REVISED PER ADDENDUM 1
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

DESIGNED BY: DNM
 DRAWN BY: RAL
 CHECKED BY: EWK
 PROJ. MGR. JAS

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THE HEMPSTEAD
 INTERSECTION STREET
 FORMER MANUFACTURED GAS
 PLANT SITE

INDEX OF DRAWINGS, ABBREVIATIONS, NOTES AND LOCATION MAP	
Scale: AS SHOWN	Date: APRIL 2011
DWG-2.1	

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LEGEND - EXISTING

	LOCATION OF EXISTING STRUCTURE
	APPROXIMATE LOCATION OF FORMER MGP STRUCTURE
	DRAINAGE INLET
	ELECTRIC MANHOLE
	SANITARY MANHOLE
	STORM MANHOLE
	UNKNOWN MANHOLE
	TELEPHONE MANHOLE
	WATER MANHOLE
	WELL OR PIEZOMETER
	GAS VALVE
	GUY WIRE
	FENCE
	FIRE HYDRANT
	GATE
	LOCATION OF KNOWN CONCRETE SLAB/FOUNDATION
	LIGHT POLE
	METAL POLE
	SIGN
	UTILITY POLE
	VAULT
	WATER VALVE
	PIEZOMETER/WELL LOCATION (ROY F. WESTON FIELD INVESTIGATION, MARCH 1993)
	TEMPORARY GROUNDWATER MONITORING WELL (TAKEN FROM RI REPORT, 2006)
	TEMPORARY GROUNDWATER SAMPLE LOCATION (TAKEN FROM RI REPORT, 2006)
	GROUNDWATER MONITORING WELL
	TEMPORARY GROUNDWATER SAMPLE LOCATION (URS, 2008-2009)
	IRM PRODUCT RECOVERY WELL, URS 2008 & 2009
	SURVEY CONTROL POINTS
	SURVEY CONTROL POINTS
	SURFACE SOIL SAMPLE
	GAS LINE
	OVERHEAD WIRE (ELECTRIC)-PLAN
	EXISTING OVERHEAD WIRE (ELECTRIC)- PROFILE
	UNDERGROUND ELECTRIC LINE
	FORMER MGP SITE BOUNDARY AND APPROXIMATE PROPERTY LINE
	SANITARY SEWER LINE
	STORM SEWER LINE
	TELEPHONE LINE
	WATER LINE
	DELINEATED LIMIT OF MGP SOURCE MATERIAL
	APPROXIMATE LIMITS OF MGP SOURCE MATERIAL
	NO SOLIDIFICATION - MGP IMPACTS TO BE TREATED WITH O2 DELIVERY SYSTEM
	O2 TREATMENT SYSTEM / WELLS (BY OTHERS)
	ESTIMATED GROUNDWATER SURFACE
	LIMIT OF MGP IMPACTS
	GROUND SURFACE ELEVATION
	DECIDUOUS TREE
	CONIFER TREE
	APPROXIMATE TREE LINE

LEGEND - PROPOSED

SOLIDIFICATION METHODS LAYOUT (DWG-5A)	
	NO SOLIDIFICATION - MGP IMPACTS TO BE TREATED WITH O2 DELIVERY SYSTEM
	EXCAVATION ONLY
	15' EXCAVATION AREA FOR DSM
	DSM AREA (EXCAVATION DEPTH VARIES)
	SOIL-CRETE DSM RETAINING WALL
CROSS SECTIONS (DWG-6A & 7A)	
	LIMITS OF SOLIDIFICATION
	LIMITS OF BACKFILL
TOP OF SOLIDIFICATION ELEVATIONS (DWG-8A)	
	LIRR ROW VICINITY: CREATE SHALLOW CUT TO TEMPORARILY CONTAIN SPOILS THEN SOLIDIFY VIA DSM.
	SOIL-CRETE DSM RETAINING WALL: CREATE SHALLOW CUT [AS SHOWN] TO TEMPORARILY CONTAIN SPOILS THEN SOLIDIFY.
	MGP SITE MAIN DSM AREA
	DEEP POCKET ZONE
	DEEP POCKET SLOPE ZONE
	GARDEN CITY PARK DSM
	RADIUS OF PROTECTION: NO EXCAVATION PERMITTED. EMPLOY MAX. 2-FOOT HIGH SURFICIAL SOIL BERM TO TEMPORARILY CONTAIN SPOILS THEN SOLIDIFY.
	MISC. SIDESLOPE AREA: CREATE LEVEL SURFACE TO 2 FEET BELOW EXISTING GRADE THEN SOLIDIFY.
BOTTOM OF SOLIDIFICATION ELEVATIONS (DWG-9A)	
	48 FT
	42 FT
	36 FT
	35 FT
	34 FT
	32 FT
	31 FT

LEGEND - PROPOSED

BOTTOM OF SOLIDIFICATION ELEVATIONS (DWG-9A)-continued	
	29 FT
	24 FT
	20 FT
	18 FT
	2 FT
DSM-ONLY EXCAVATION PLAN (DWG-16A)	
	MINIMUM SHALLOW EXCAVATION PERMITTED FOR TEMPORARY SPOILS CONTAINMENT
	ESTIMATED AREA OF CLEANER SOIL AT 0-5 FOOT DEPTH WITHIN PLANNED SOLIDIFICATION AREAS WITHIN FORMER MGP SITE.
	INITIAL POB PARKING LOT SOLIDIFICATION AREA. FINAL RAMP NOT TO BE CONSTRUCTED UNTIL THIS AREA IS CURED AND CAN SAFELY SUPPORT FINAL RAMP.
	FINAL POB PARKING LOT SOLIDIFICATION AREA. EXCAVATE TO INITIAL RAMP CONFIGURATION. EXCAVATE INITIAL RAMP AND SOLIDIFY THIS AREA ONLY AFTER FINAL RAMP IS CONSTRUCTED.
	POTENTIAL AREA OF OPEN-AIR EXCAVATION REQUIRED TO EXPEDITE DSM AND MAINTAIN ACCESS TO PROPOSED TEMPORARY PARKING LOT AND EXISTING PARKING LOT

LEGEND - PROPOSED

	LIMIT OF MGP SOURCE MATERIAL TREATMENT
	LIMITS OF ISS REMEDIATION DURING PHASE I
	STAGE A LIMITS
	STAGE B LIMITS
	PROPOSED TEMPORARY FENCE WITH VISUAL BARRIER
	PROPOSED EROSION/SEDIMENT CONTROL MEASURES
	PROPOSED GROUND SURFACE ELEVATION
	PROPOSED GASLINE
	PROPOSED STORM SEWER LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED UNDERGROUND ELECTRICAL CONDUIT
	PROPOSED WATERLINE
	DEMOLISH/ABANDON UTILITY AFTER COORDINATION WITH NATIONAL GRID GAS DEPARTMENT AND AFFECTED UTILITIES
	PROPOSED CONCRETE SIDEWALK
	PROPOSED TEMPORARY ACCESS
	CONSTRUCTION TRAFFIC FLOW DIRECTION
	TEMPORARY SIGN
	TYPE III BARRICADE
	PROPOSED PARKING LOT LIGHTING
	PROPOSED HAND HOLE
	PROPOSED UTILITY POLE WITH WEATHERHEAD
	PROPOSED FENCE
	PROPOSED CATCH BASIN
	PROPOSED TREE

THIS DRAWING CONTAINS FEATURES INTENDED TO BE PRINTED IN COLOR AS SHOWN ON ORIGINAL CONTRACT DRAWINGS. REPRODUCTION IN BLACK AND WHITE MAY OBSCURE THE INTENDED EFFECT OF THE COLOR FEATURES.

ISSUED FOR CONSTRUCTION

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	RJP	JAS	8/2011	LEGEND REVISED FOR DSM-ONLY
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

DESIGNED BY: DNM
DRAWN BY: RAL
CHECKED BY: EWK
PROJ. MGR. JAS

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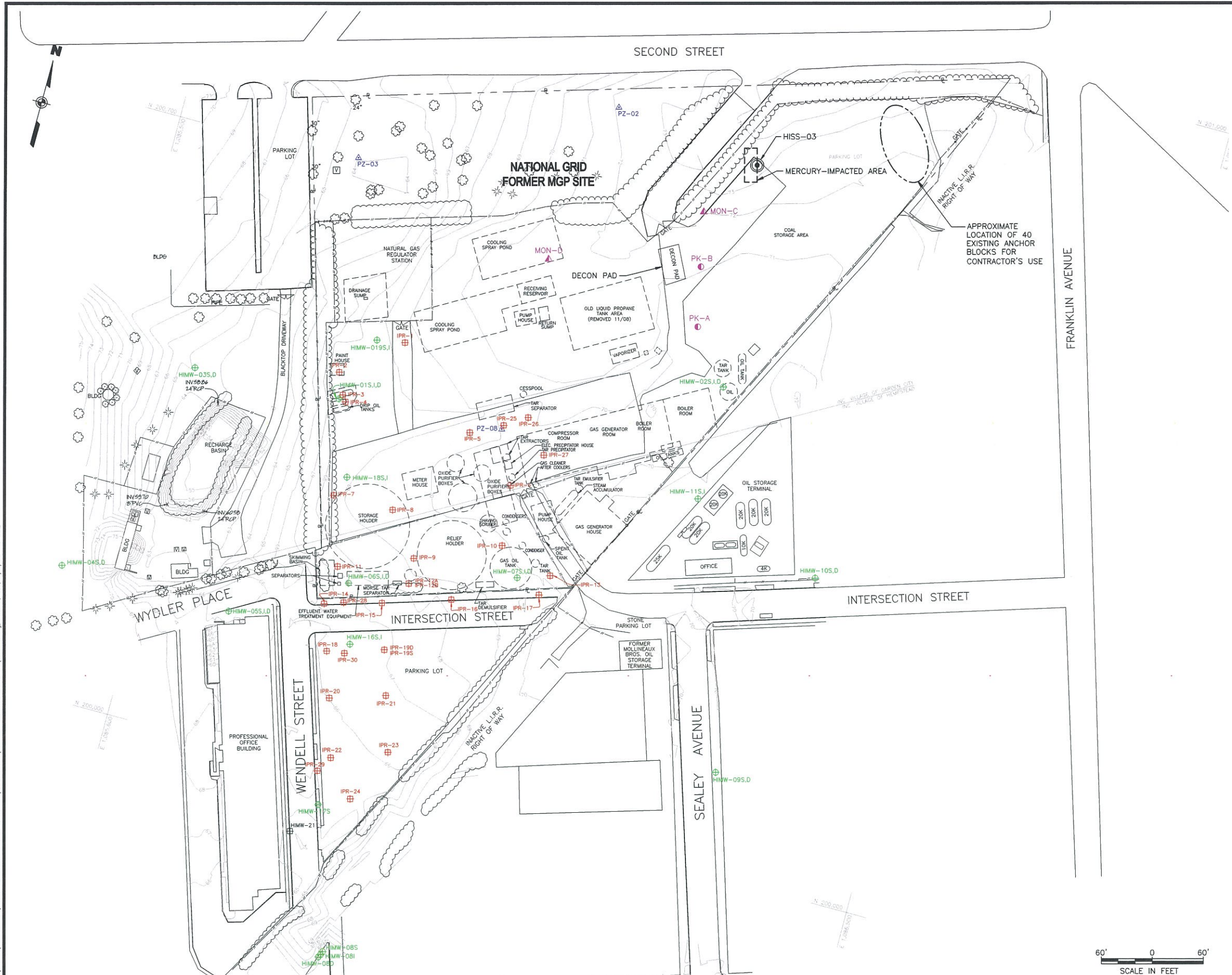


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THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

LEGEND	
Scale: AS SHOWN	Date: APRIL 2011
DWG-2.2	

Only appear from the original of this drawing that are shown with the subject and one signature of the



NOTES:

- LOCATIONS SHOWN FOR FORMER MGP FEATURES WERE TAKEN FROM FINAL REMEDIAL INVESTIGATION REPORT DATED NOVEMBER 2006 BY PAULUS, SOKOLOWSKI AND SARTOR ENGINEERING, P.C. REFERENCE RI FIGURE 1-4. BASE MAP AND FORMER MGP SITE FEATURES IN RI WAS PREPARED BY DVIRKA AND BARTOLUCCI CONSULTING ENGINEERS, A DIVISION OF WILLIAM F COSULICH ASSOCIATES, P.C.

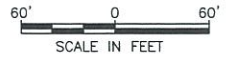
LEGEND - EXISTING

- FENCE
- FORMER MGP SITE BOUNDARY AND APPROXIMATE PROPERTY LINE
- APPROXIMATE LOCATION OF FORMER MGP STRUCTURE
- LOCATION OF EXISTING STRUCTURE
- IRM PRODUCT RECOVERY WELL, URS 2008 & 2009
- PIEZOMETER/WELL LOCATION (ROY F. WESTON FIELD INVESTIGATION, MARCH 1993)
- GROUNDWATER MONITORING WELL (SHALLOW ZONE)
- GROUNDWATER MONITORING WELL (INTERMEDIATE ZONE)
- GROUNDWATER MONITORING WELL (DEEP ZONE)
- SURVEY CONTROL POINTS
- SURVEY CONTROL POINTS
- DECIDUOUS TREE
- CONIFER TREE
- APPROXIMATE TREE LINE
- GROUND SURFACE ELEVATION

SURVEY CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION (FEET)
PK-A	200,619.90	1,086,153.57	70.38
PK-B	200,688.88	1,086,138.82	71.21
MON-C	200,752.15	1,086,125.28	72.86
MON-D	200,651.19	1,085,963.31	71.24

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1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

DESIGNED BY: JAS
 DRAWN BY: RAL
 CHECKED BY: EWK
 PROJ. MGR. JAS

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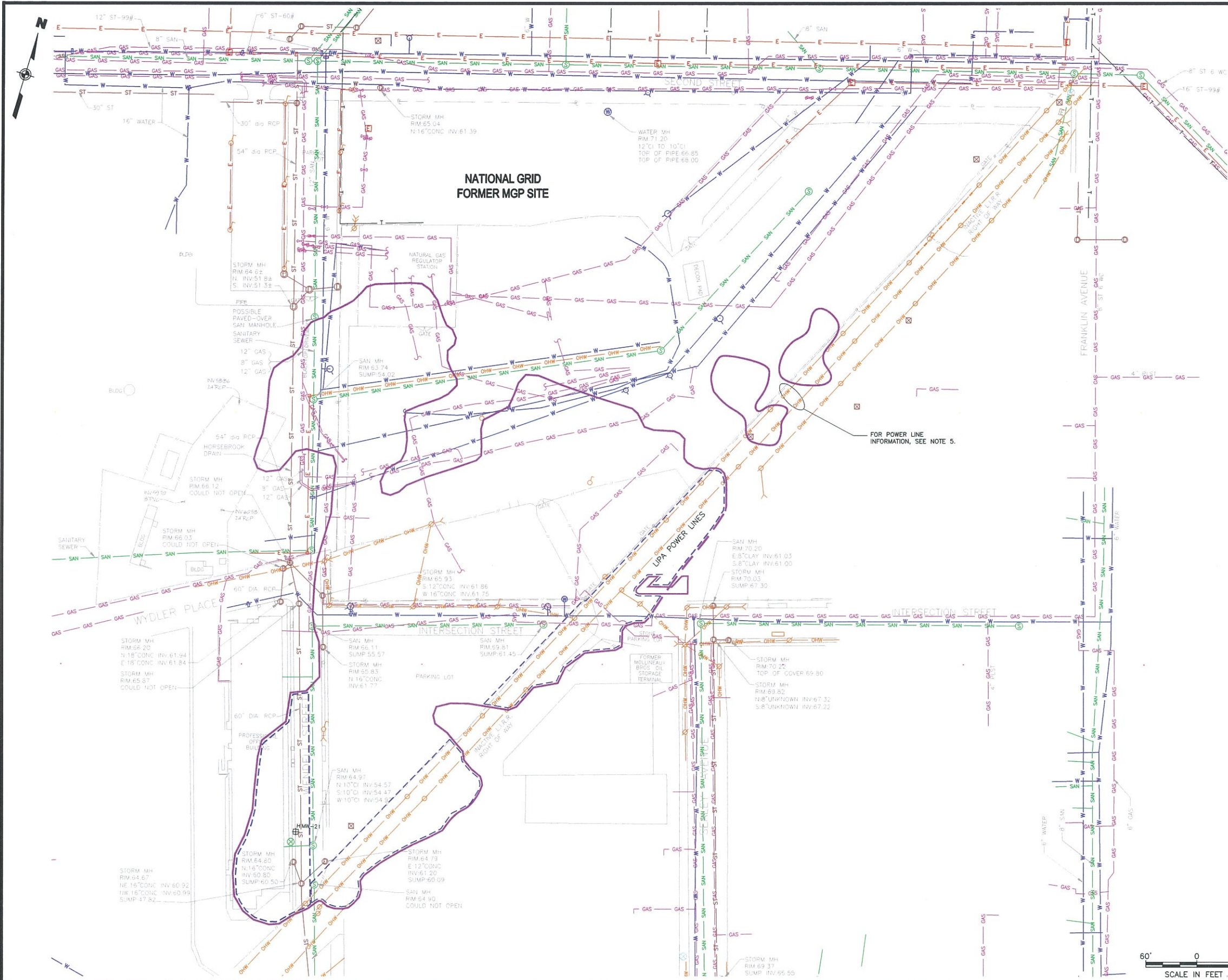


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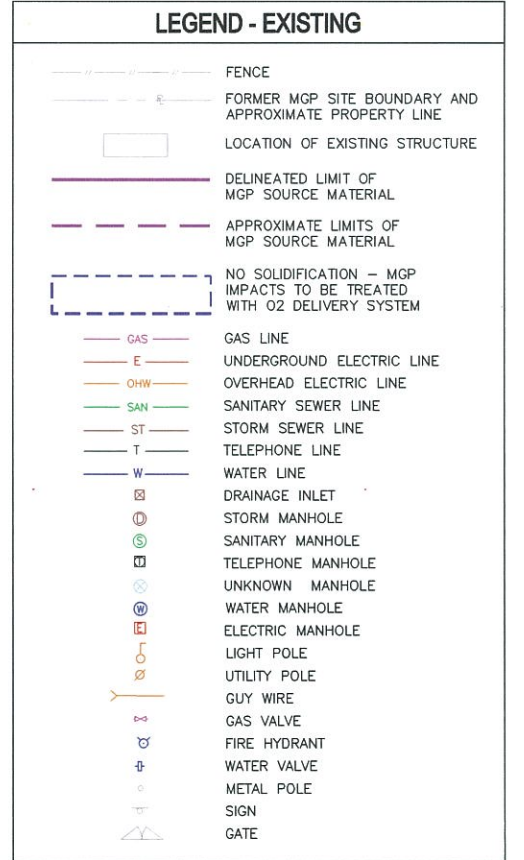
THE HEMPSTEAD
 INTERSECTION STREET
 FORMER MANUFACTURED GAS
 PLANT SITE

EXISTING SITE PLAN SHOWING FORMER MGP STRUCTURES	
Scale: AS SHOWN	Date: APRIL 2011
DWG-3	

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- NOTES:**
- THE SHOWN UTILITIES SHALL BE CONSIDERED AS APPROXIMATE LOCATIONS, BASED ON INFORMATION MADE AVAILABLE TO URS. SHOWN UTILITIES/LOCATIONS MAY OR MAY NOT BE COMPLETE, ACTIVE, OR DECOMMISSIONED. ANY PROPOSED CONSTRUCTION NEAR SUCH UTILITIES REQUIRES CONFIRMATION OF UTILITY LOCATIONS AND DETAILED REVIEW OF UTILITY SOURCE MAPPING.
 - SEE DWG-12A FOR UTILITY PROTECTION AND DECOMMISSIONING PLAN. SEE DWG-13A FOR REQUIREMENTS CONCERNING PROTECTION OF UTILITIES.
 - EXISTING UTILITY LOCATIONS ARE BASED ON THE FOLLOWING:
 - VILLAGE OF GARDEN CITY, NASSAU COUNTY, N.Y. RECORD PLAN - SECOND STREET, 6-10-66.
 - LONG ISLAND LIGHTING COMPANY SITE PLAN AND NOTES - REGULATOR STATION NL-40, 8-8-97.
 - NASSAU COUNTY DPW PLAN FOR CONSTRUCTION OF HORSE-BROOK DRAIN-WEST BRANCH SECTION 2B, 10-1-53.
 - NATIONAL GRID, THE VILLAGE OF GARDEN CITY AND THE VILLAGE OF HEMPSTEAD, ENGINEERING DEPARTMENT RECORD DRAWINGS.
 - FOR LOCATION OF EXISTING TREES, SEE DWG-3.
 - LIPA POWER LINES WITHIN LRR ROW INCLUDE THE FOLLOWING SERVICES AND MINIMUM MEASURED HEIGHT ABOVE THE EXISTING GRADE THAT THE CONTRACTOR SHALL CONFIRM. REFER ALSO TO DWG-30 FOR DETAILED OHW INFORMATION.
 - 13 KV LINE: 26 FT (NEUTRAL), 33 FT (LOW VOLTAGE), AND 40 FT (HIGH VOLTAGE).
 - 69 KV LINE: 31 FT (NEUTRAL), 42 FT (LOW VOLTAGE), AND 50 FT (HIGH VOLTAGE).
 - FOR OIL STORAGE TERMINAL INFRASTRUCTURE, REFER TO DWG-5A.
 - GAS LINE INFORMATION ARE AS TAKEN FROM REFERENCE DRAWINGS PROVIDED BY NATIONAL GRID.



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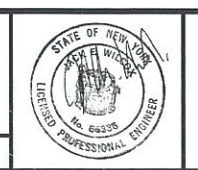
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1175095.000000.DWG (DRAFT) (AS2) (HEMPSTEAD) SOIL REMEDIATION PLANS & SPECS (APRIL 2011) ISSUED FOR CONSTRUCTION (DWG-4.dwg, DWG 4, 1:1, 9/19/11 - 2 RAL

NO.	DATE	BY	APPROVED BY	DESCRIPTION
2	8/2011	RJP	JAS	ELIMINATED "B" DRAWING REFERENCES
1	8/2011	RJP	JAS	ISSUED FOR CONSTRUCTION

DESIGNED BY: DNM
 DRAWN BY: RAL
 CHECKED BY: EWK
 PROJ. MGR. JAS

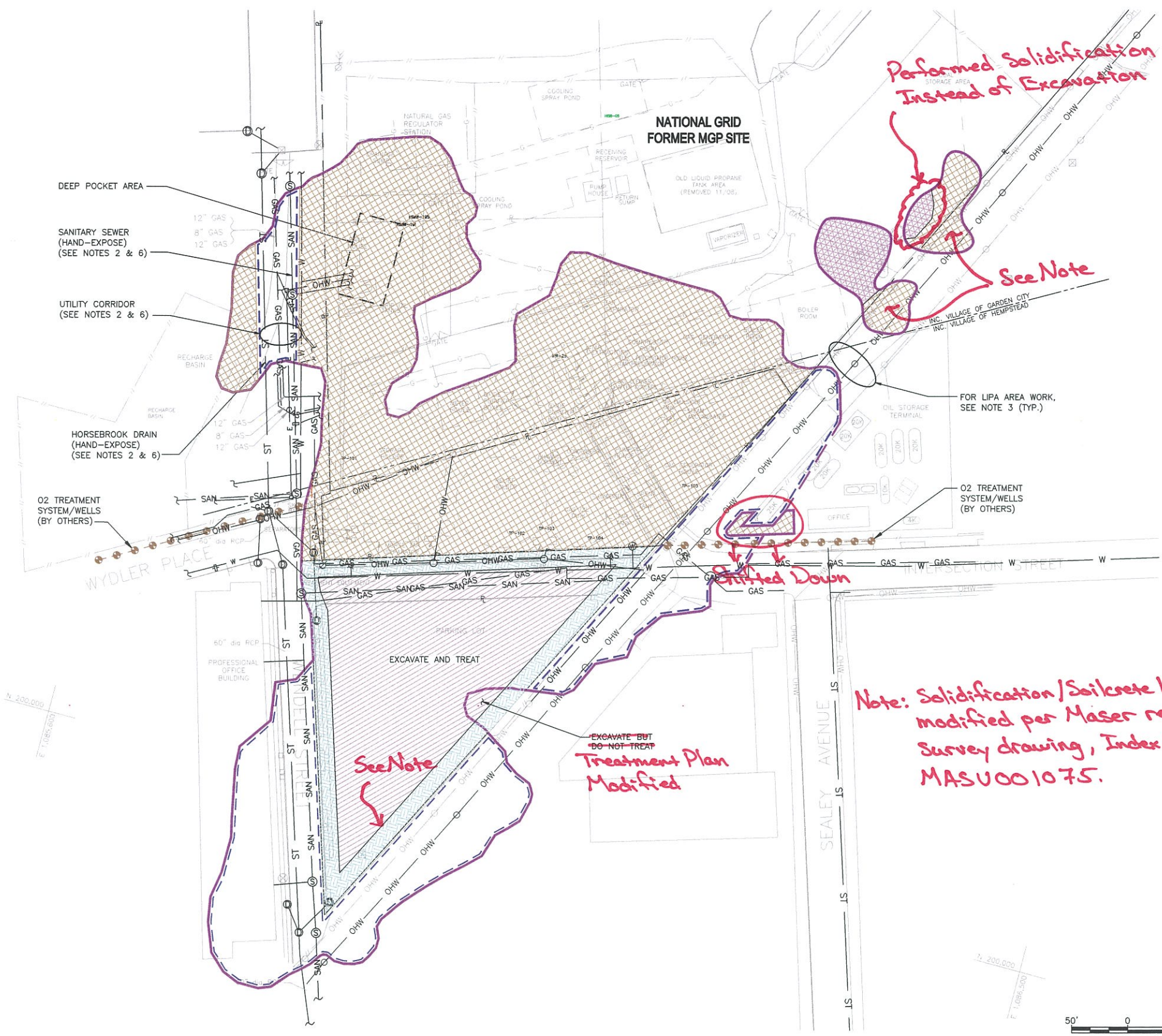
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THE HEMPSTEAD
 INTERSECTION STREET
 FORMER MANUFACTURED GAS
 PLANT SITE

Scale: AS SHOWN	Date: APRIL 2011	DWG-4
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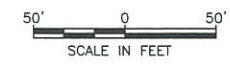


LEGEND

- DELINEATED LIMIT OF MGP SOURCE MATERIAL
- APPROXIMATE LIMITS OF MGP SOURCE MATERIAL
- EXCAVATION ONLY
- 15' EXCAVATION AREA FOR DSM
- DSM AREA (EXCAVATION DEPTH VARIES)
- NO SOLIDIFICATION—MGP IMPACTS TO BE TREATED WITH O2 DELIVERY SYSTEM
- SOIL-CRETE DSM RETAINING WALL
- O2 TREATMENT SYSTEM/WELLS (BY OTHERS)
- OVERHEAD WIRES

- NOTES:**
- FOR LOCATION OF EXISTING TREES, SEE DWG-3.
 - DUE TO THE LOCATION OF UTILITIES AND REQUIRED PROTECTION THEREOF AND PROPOSED OPEN CUT LIMITS ALONG THE FORMER MGP SITE BOUNDARY, ACTUAL LIMITS OF DSM REMEDIATION MAY VARY SLIGHTLY FROM THE LIMITS SHOWN ON THIS SHEET, DWG-6A, AND DWG-7A, BUT ONLY AS APPROVED. PREVENT IMPACTS TO WENDELL STREET, UTILITIES, AND OTHER FEATURES TO BE PRESERVED. THE METHODS TO PROTECT UTILITIES, WHILE ACHIEVING SOLIDIFICATION UNDERNEATH AND ADJACENT TO UTILITIES TO THE EXTENT PRACTICABLE, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO SUCH WORK.
 - WORK WITHIN AND AROUND THE LIRR ROW SHALL BE COORDINATED WITH LIPA. REQUIRED CLEARANCES FROM OVERHEAD LINES SHALL BE MAINTAINED IN ACCORDANCE WITH OSHA 29 CFR 1926.550(A)(15).
 - UTILITIES SERVING THE PROFESSIONAL OFFICE BUILDING AND THE OIL STORAGE TERMINAL SHALL REMAIN IN SERVICE THROUGHOUT THE DURATION OF THE CONTRACT. REQUIREMENTS FOR STRUCTURAL PRECONDITION SURVEY AND MONITORING OF THE PROFESSIONAL OFFICE BUILDING AND THE OIL STORAGE TERMINAL ARE ADDRESSED IN SPECIFICATION SECTION 01056.
 - NECESSARY METHODS FOR LOCATING UTILITIES SHALL INCLUDE VISUAL LOCATING, OPENING, AND DOWN-HOLE INSPECTING OF EACH MANHOLE WITHIN AND JUST BEYOND THE CONTRACT WORK AREA.
 - UTILITY CORRIDOR: THE DSM AUGER SHALL BE LOCATED NO CLOSER THAN 5 FEET FROM THE HORSEBROOK DRAIN (RCP) PIPE AND SANITARY SEWER. THE PROPOSED ISS SOLIDIFICATION SEQUENCE IN THIS AREA SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE STAGED TO PRECLUDE MOVEMENT OF THE UTILITIES, TAKING INTO ACCOUNT SOIL MIX CURING TIME AND THE TEMPORARY LOW STRENGTH OF SOLIDIFIED SOIL.
 - SOLIDIFICATION SHALL NOT BE PERFORMED INSIDE OF A TEMPORARY CONTAINMENT BUILDING.

THIS DRAWING CONTAINS FEATURES INTENDED TO BE PRINTED IN COLOR AS SHOWN ON ORIGINAL CONTRACT DRAWINGS. REPRODUCTION IN BLACK AND WHITE MAY OBSCURE THE INTENDED EFFECT OF THE COLOR FEATURES.



J:\1176095\00000\CAD\DRMFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG-5A.dwg 1=1 9/9/11-1 RAL

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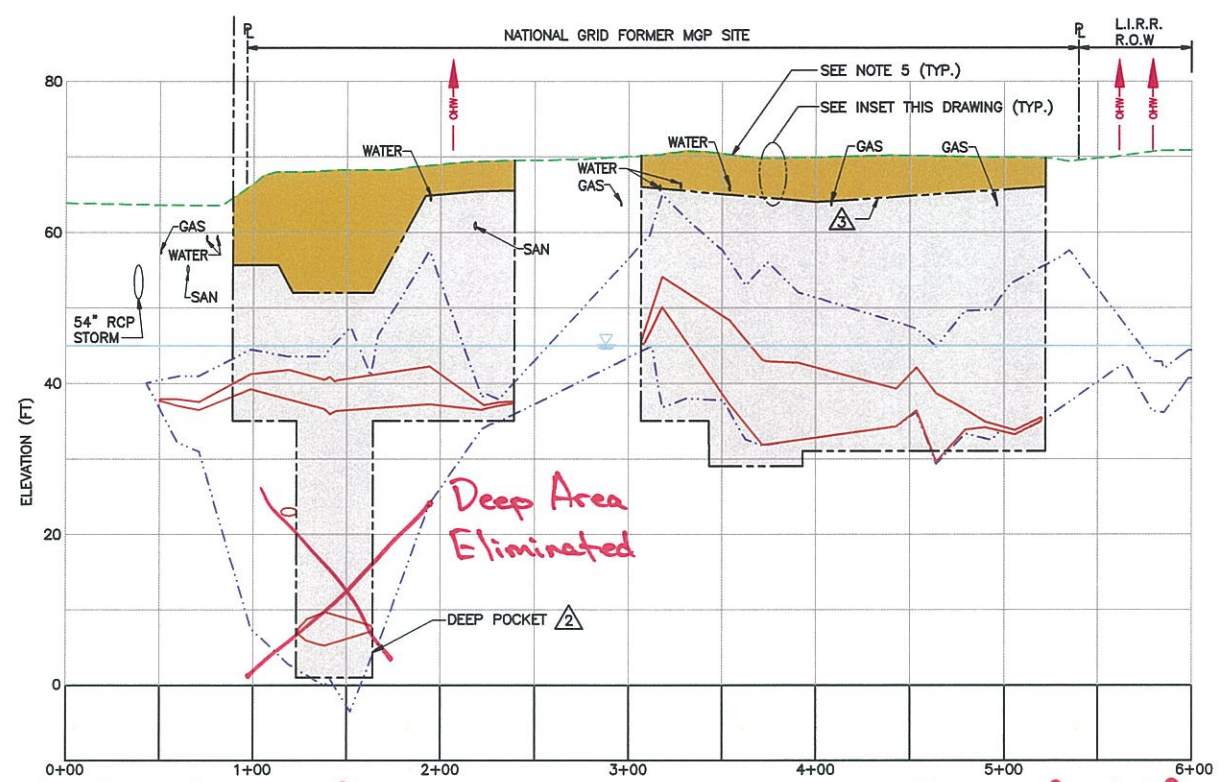
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SOLIDIFICATION METHODS LAYOUT
 Scale: AS SHOWN Date: APRIL 2011 DWG-5A

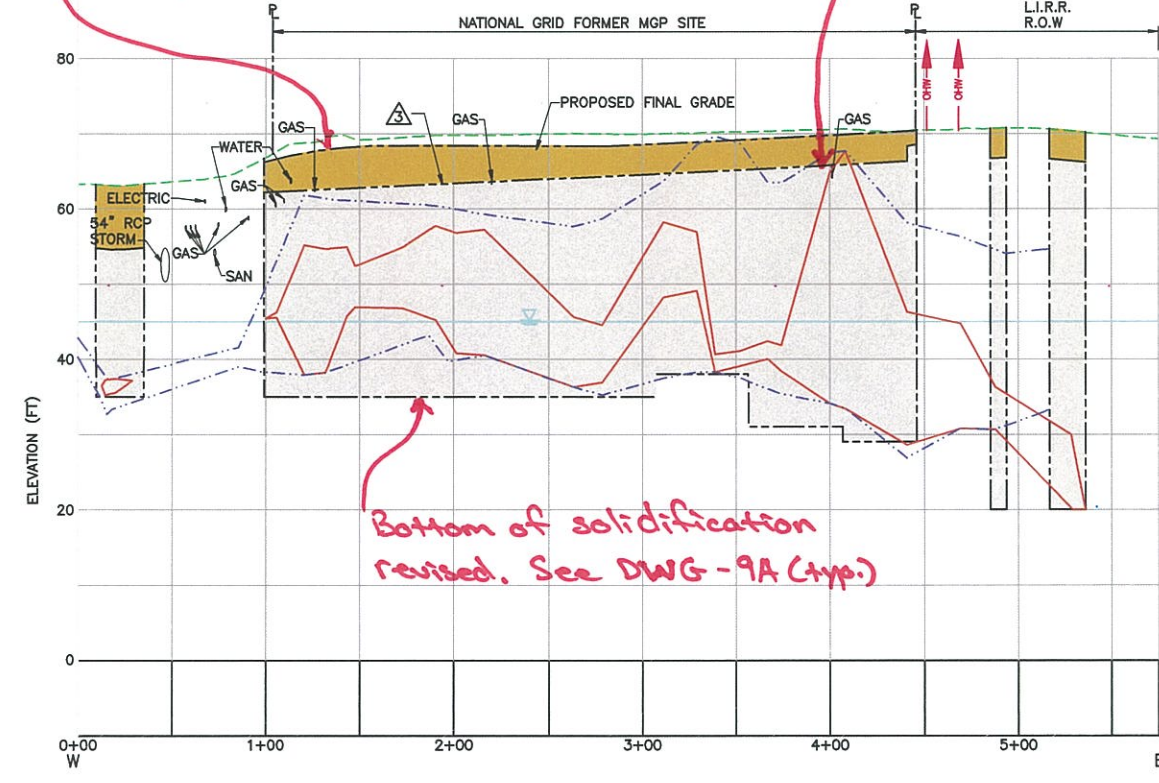
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11/17/2011 11:50:05 AM CAD DRAFT (JAS) (HEMPSTEAD) SOIL REMEDIATION PLANS & SPECS (APRIL 2011) ISSUED FOR CONSTRUCTION (REVISED NOVEMBER 2010) DWG 6A.dwg, DWG 6, 1:2, 11/10/11, -1-RAL

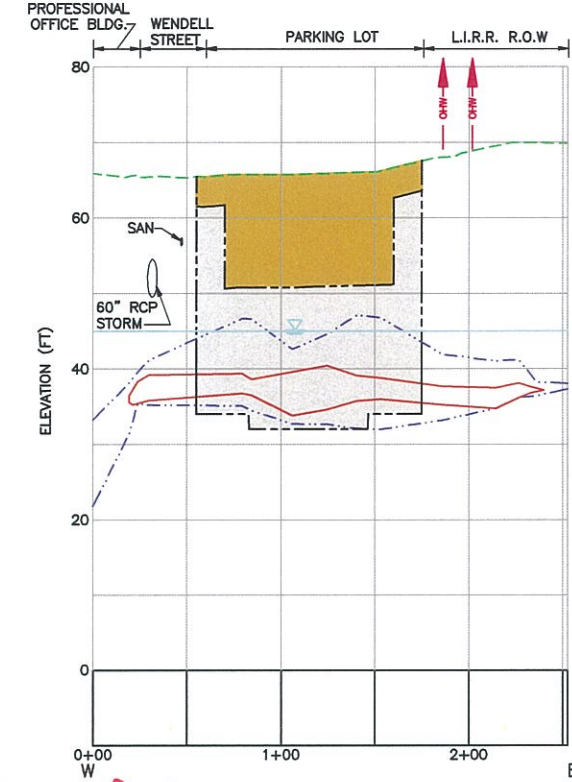


For Final Grade, refer to
 Maser Record Survey
 Drawing, Index # MASU001323 (typ.)

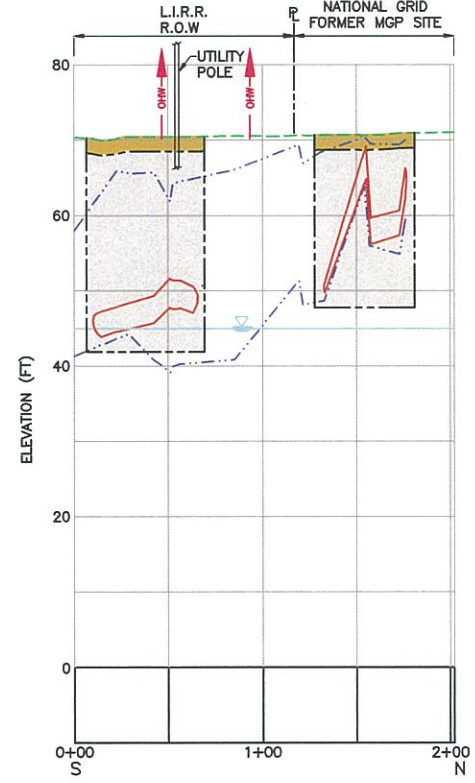
For top of solidification, refer to
 Maser record survey drawing,
 Index # MASU001075 (typ.)



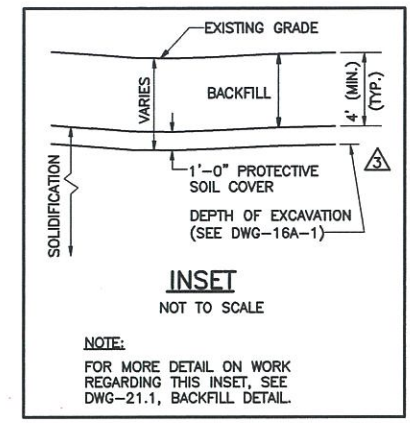
Bottom of solidification
 revised. See DWG-9A (typ.)



SECTION WE-3



SECTION NEC-1



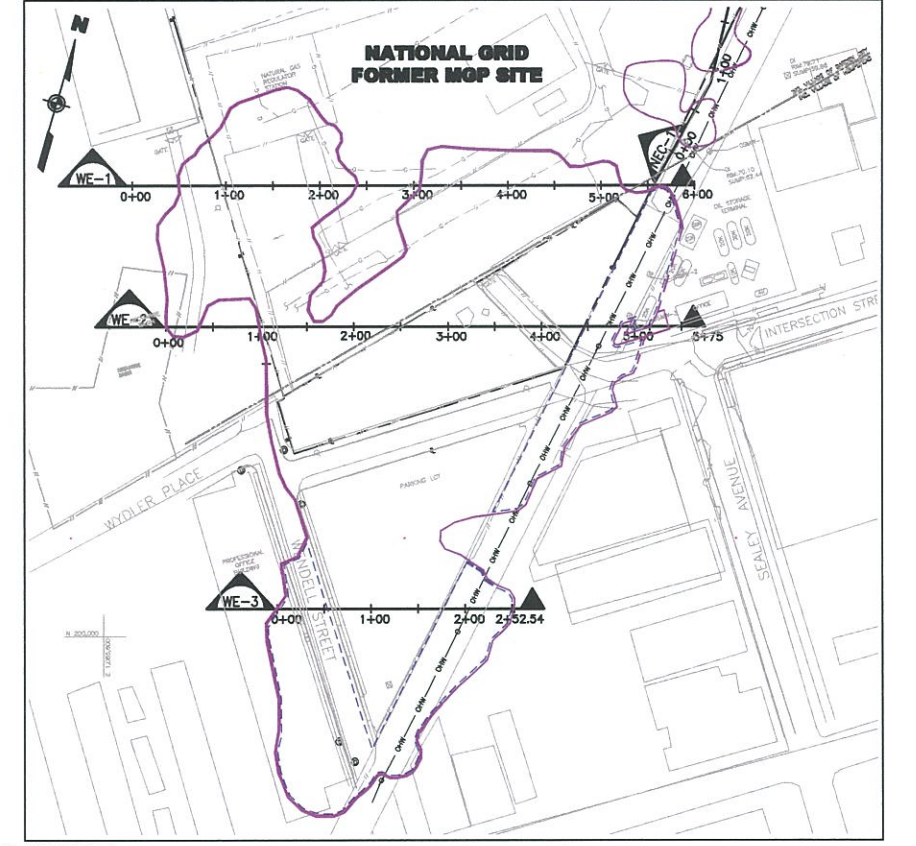
INSET NOT TO SCALE

NOTE:
 FOR MORE DETAIL ON WORK
 REGARDING THIS INSET, SEE
 DWG-21.1, BACKFILL DETAIL

LEGEND

N NORTH
 S SOUTH
 E EAST
 W WEST
 NEC NORTH EAST CORNER

— DELINEATED LIMIT OF MGP SOURCE MATERIAL (ON PLAN VIEW)
 — DELINEATED LIMIT OF MGP SOURCE MATERIAL (ON SECTIONS)
 - - - APPROXIMATE LIMITS OF MGP SOURCE MATERIAL
 - - - DELINEATED LIMIT OF MGP IMPACTS
 — ESTIMATED GROUNDWATER SURFACE
 — EXISTING GROUND SURFACE ELEVATION
 [] PROPOSED LIMITS OF SOLIDIFICATION
 [] PROPOSED LIMITS OF BACKFILL
 [] NO SOLIDIFICATION - AREA IS OUTSIDE THE LIMIT OF WORK. MGP IMPACTS TO BE TREATED WITH O2 DELIVERY SYSTEM
 ▲ EXISTING OVERHEAD WIRE (ELECTRIC) APPROXIMATE LOCATION (ELEV. NOT SHOWN)



- NOTES:**
- FOR LOCATION OF EXISTING TREES, SEE DWG-3.
 - THIS DRAWING IS INTENDED TO SHOW MINIMUM SOLIDIFICATION AND EXCAVATION LIMITS, EXCLUSIVE OF SLOPE CUTBACKS AND MINOR ADJUSTMENTS OF LIMITS TO ACCOMMODATE EXISTING UTILITIES.
 - REFER TO DRAWING DWG-4 FOR LOCATIONS OF EXISTING UTILITIES.
 - THE SHOWN LOCATIONS AND ELEVATIONS OF UTILITIES SHALL BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS.
 - SHOWN FINAL GRADE REPRESENTS MINIMUM ELEVATION. FOR ACTUAL PROPOSED FINAL GRADES, REFER TO DWG-19A.

THIS DRAWING CONTAINS FEATURES INTENDED TO BE PRINTED IN
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 COLOR FEATURES.

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3	RJP	JAS	11/2011	REVISED FOR REQUIRED TOP OF ISS CONTOURING
2	RJP	JAS	8/2011	DEEP POCKET LABEL REVISED
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

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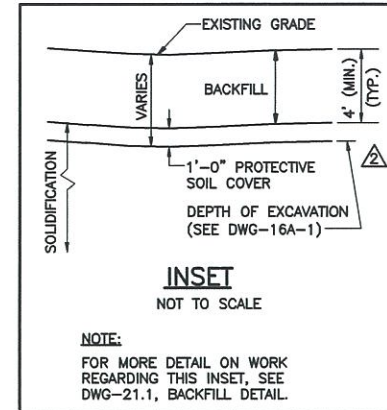
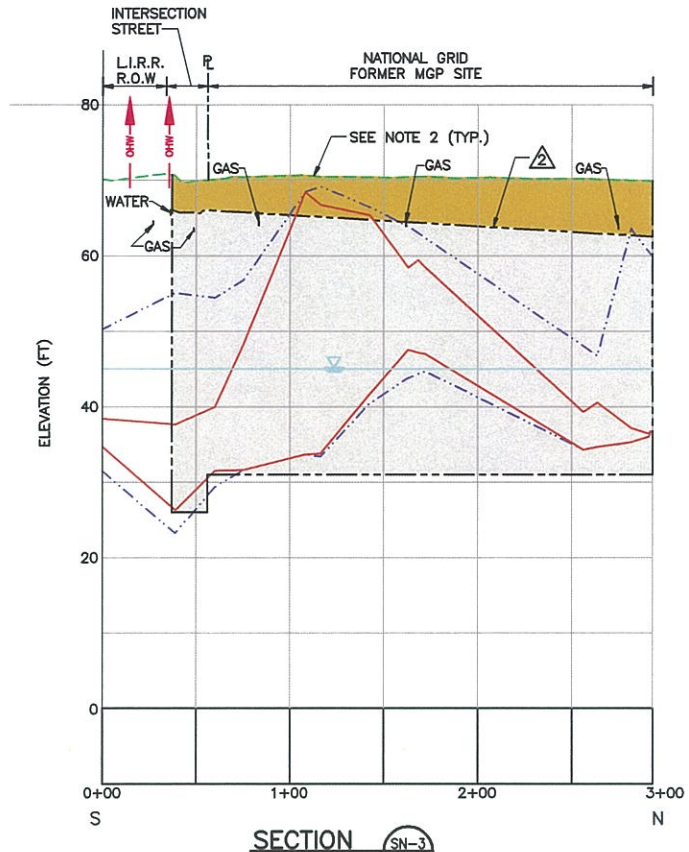
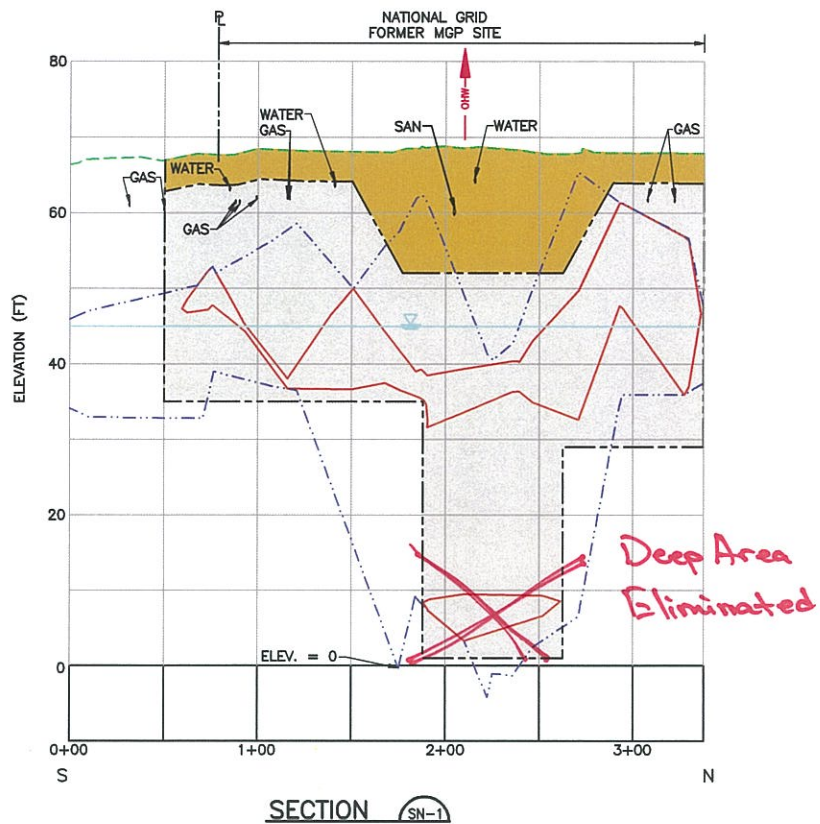
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WEST/EAST CROSS SECTIONS
 Scale: AS SHOWN Date: APRIL 2011 DWG-6A

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11/17/06 (0000) CAD (DRAFT) TASK (HEMPSTEAD) SOIL REMEDIATION PLANS & SPECS (APRIL 2011) ISSUED FOR CONSTRUCTION (REVISED NOVEMBER 2011) DWG-7A.dwg, DWG 7. 1/2, 11/10/11 -1-RAL



LEGEND

N NORTH
S SOUTH
E EAST
W WEST
NEC NORTH EAST CORNER

— DELINEATED LIMIT OF MGP SOURCE MATERIAL (ON PLAN VIEW)
— DELINEATED LIMIT OF MGP SOURCE MATERIAL (ON SECTIONS)

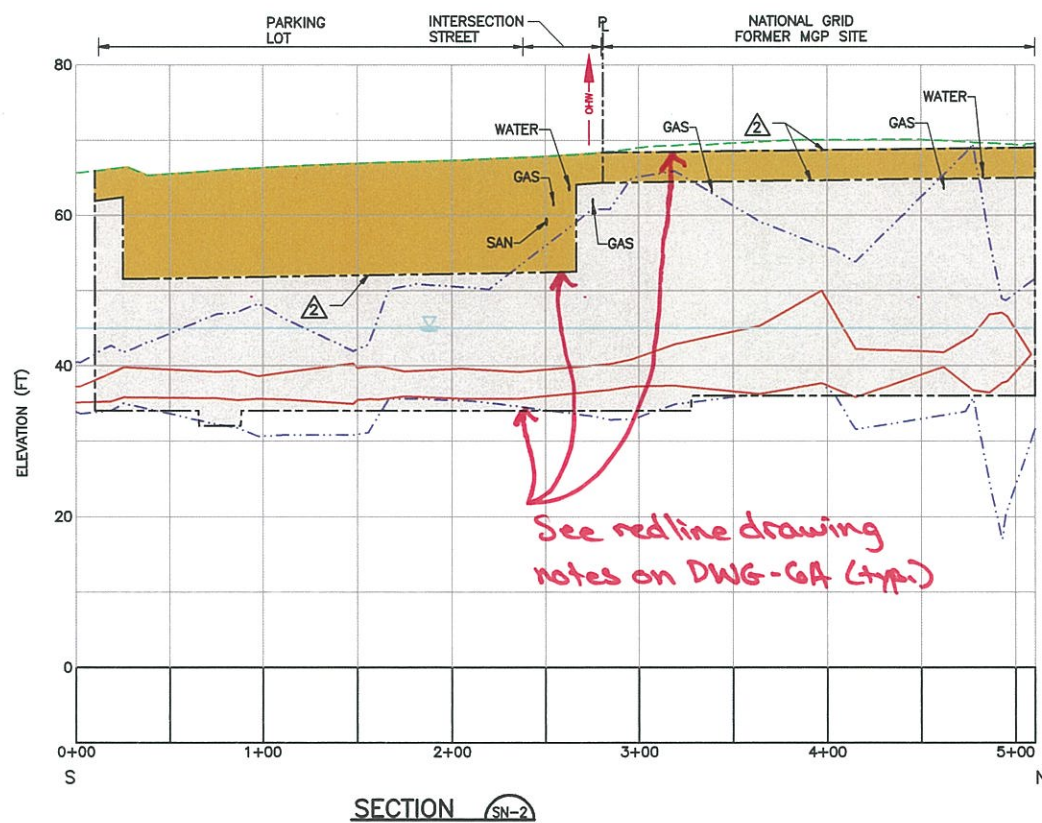
- - - APPROXIMATE LIMITS OF MGP SOURCE MATERIAL
- - - DELINEATED LIMIT OF MGP IMPACTS

— ESTIMATED GROUNDWATER SURFACE
— EXISTING GROUND SURFACE ELEVATION

— PROPOSED LIMITS OF SOLIDIFICATION
— PROPOSED LIMITS OF BACKFILL

— NO SOLIDIFICATION - AREA IS OUTSIDE THE LIMIT OF WORK. MGP IMPACTS TO BE TREATED WITH O2 DELIVERY SYSTEM

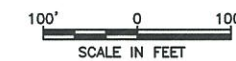
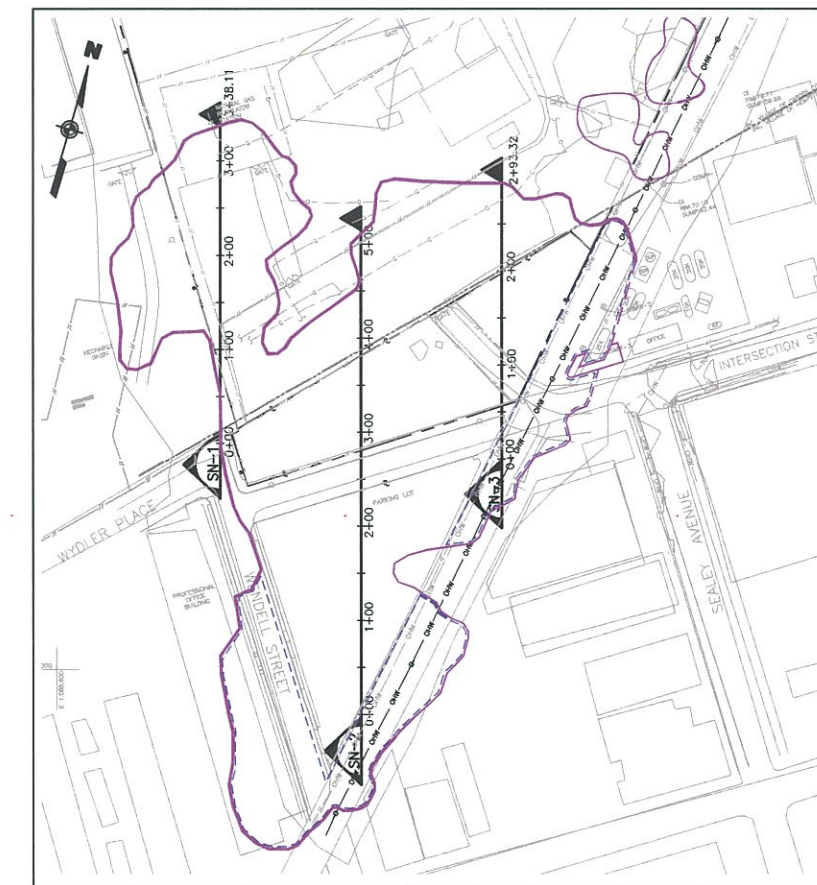
— EXISTING OVERHEAD WIRE (ELECTRIC) APPROXIMATE LOCATION (ELEV. NOT SHOWN)



NOTE:

- FOR NOTES, REFER TO DRAWING DWG-6A.
- SHOWN FINAL GRADE REPRESENTS MINIMUM ELEVATION. FOR ACTUAL PROPOSED FINAL GRADES, REFER TO DWG-19A.

THIS DRAWING CONTAINS FEATURES INTENDED TO BE PRINTED IN COLOR AS SHOWN ON ORIGINAL CONTRACT DRAWINGS. REPRODUCTION IN BLACK AND WHITE MAY OBSCURE THE INTENDED EFFECT OF THE COLOR FEATURES.



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2	RJP	JAS	11/2011	REVISED FOR REQUIRED TOP OF ISS CONTOURING
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

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 CHECKED BY: RJP
 PROJ. MGR. JAS

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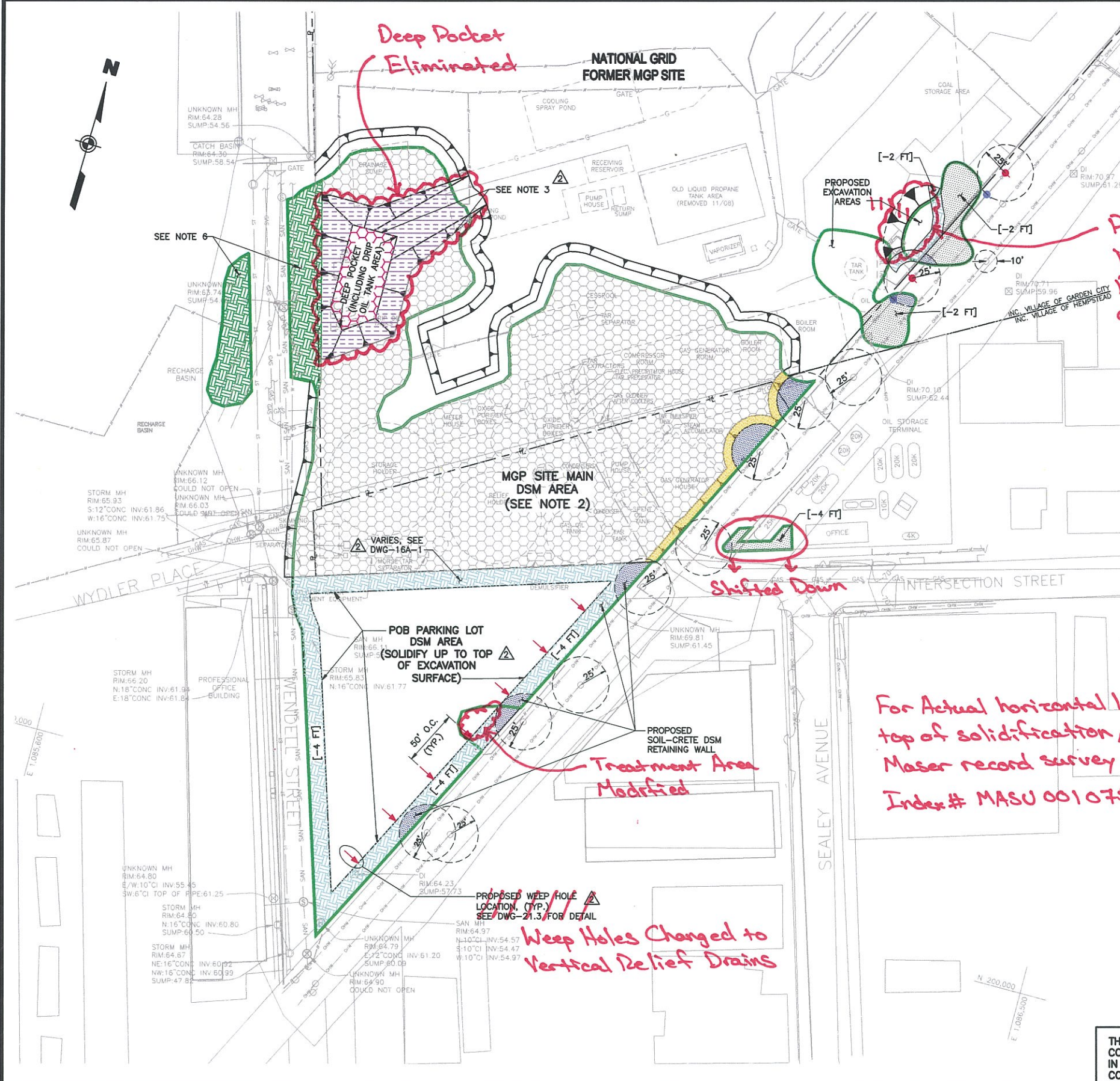
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SOUTH/NORTH CROSS SECTIONS
 Scale: AS SHOWN Date: APRIL 2011 DWG-7A

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LEGEND	
	LIMIT OF MGP SOURCE MATERIAL TREATMENT
	NEW POLE (BY OTHERS)
	REMOVE POLE (BY OTHERS)

- NOTES:**
- FOR LOCATION OF EXISTING TREES, SEE DWG-3.
 - TOP OF SOLIDIFICATION IN MGP SITE MAIN DSM AREA SHALL BE ONE FOOT ABOVE THE POST-EXCAVATED SURFACE ELEVATION AS PER EXCAVATION PLAN, DWG-16A. (I.E., TOP OF PROTECTIVE SOIL COVER).
 - ~~DEEP ACCESS ZONE SOLIDIFICATION STEPS:~~
 - ~~EXCAVATE DEEP POCKET ZONE TO DEPTH INDICATED. EXCAVATE SLOPE AREAS TO MATCH ADJACENT EXCAVATION OR SURFACE DEPTH.~~
 - ~~SOLIDIFY DEEP POCKET AREA ONLY UP TO SHOWN EXCAVATION GRADE.~~
 - ~~BACKFILL DEEP POCKET ZONE AND DEEP POCKET SLOPE ZONE WITH CLEAN SOIL UP TO 4 FEET BELOW EXISTING GRADE.~~
 - ~~SOLIDIFY THE BACKFILLED DEEP POCKET ZONE (EXCEPT DEEP POCKET FOOTPRINT).~~
 - ~~IF FIELD DEMONSTRATION TESTING REVEALS THAT EXCAVATION IS UNNECESSARY TO REACH SPECIFIED ISS DEPTHS, THE DEEP POCKET ZONE AND THE DEEP POCKET SLOPE ZONE SHALL BE CONSIDERED PART OF THE MGP SITE MAIN DSM AREA. PRIOR TO ISS, THE DRIP OIL TANK PORTION OF THE DEEP POCKET ZONE SHALL BE EXCAVATED, HOWEVER, AND BACKFILLED TO REQUIRED SURFACE ELEVATION FOR MGP SITE MAIN DSM AREA.~~
 - FOR RADIUS OF PROTECTION AREAS, EXCAVATION IS NOT PERMITTED SO SPECIAL PROCEDURES IN FORMER MGP SITE MAY BE REQUIRED, SUCH AS PRE-DRILLING TO BREAK UP EXISTING OBSTRUCTIONS, USE OF SMALL-DIAMETER DSM AUGER, ETC.
 - FOR CONSTRUCTION LAYOUT INFORMATION, REFER TO DWG-31A.
 - IN GARDEN CITY PARK AREA, EXCAVATE TO TOP OF SANITARY SEWER LINE, APPROXIMATE ELEVATION 56 FEET AMSL. (EXCAVATION DEPTH BELOW EXISTING GRADE VARIES.)

LEGEND		TOP OF SOLIDIFICATION, MEASURED AS DEPTH BELOW EXISTING GRADE (FEET)
DESCRIPTION		
	LIRR ROW VICINITY: CREATE SHALLOW CUT [AS SHOWN] TO TEMPORARILY CONTAIN SPOILS THEN SOLIDIFY VIA DSM.	[AS SHOWN]
	SOIL-CRETE DSM RETAINING WALL: CREATE SHALLOW CUT [AS SHOWN] TO TEMPORARILY CONTAIN SPOILS THEN SOLIDIFY.	[AS SHOWN]
	MGP SITE MAIN DSM AREA	4
	DEEP POCKET ZONE (SEE NOTE 3)	14
	DEEP POCKET SLOPE ZONE (SEE NOTE 3)	4
	GARDEN CITY PARK DSM (SEE NOTE 6)	[AS SHOWN]
	RADIUS OF PROTECTION: NO EXCAVATION PERMITTED. EMPLOY MAX. 2-FOOT HIGH SURFICIAL SOIL BERM TO TEMPORARILY CONTAIN SPOILS THEN SOLIDIFY. (SEE NOTE 4)	0
	MISC. SIDESLOPE AREA: CREATE LEVEL SURFACE TO 2 FEET BELOW EXISTING GRADE THEN SOLIDIFY.	2

For Actual horizontal limits and top of solidification, refer to Maser record survey drawing, Index # MASU 001075



THIS DRAWING CONTAINS FEATURES INTENDED TO BE PRINTED IN COLOR AS SHOWN ON ORIGINAL CONTRACT DRAWINGS. REPRODUCTION IN BLACK AND WHITE MAY OBSCURE THE INTENDED EFFECT OF THE COLOR FEATURES.

Modified per various Maser record survey drawings
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2	RJP	JAS	11/2011	REVISED FOR REQUIRED TOP OF ISS CONTOURING
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REVISIONS

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 DRAWN BY: **RAL**
 CHECKED BY: **RJP**
 PROJ. MGR. **JAS**



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TOP OF SOLIDIFICATION
 Scale: AS SHOWN Date: APRIL 2011 DWG-8A

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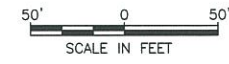


LEGEND	
BOTTOM OF SOLIDIFICATION ELEVATIONS	
	LIMIT OF MGP SOURCE MATERIAL TREATMENT
	48 FT
	42 FT
	36 FT
	35 FT
	34 FT
	32 FT
	31 FT
	29 FT
	24 FT
	20 FT
	18 FT
	2 FT

NOTE:
 1. FOR NOTES, SEE DRAWING DWG-8A.
 2. FOR CONSTRUCTION LAYOUT INFORMATION, REFER TO DWG-31A.

Bottom of solidification revised. Actual bottom elevation shown on Maser record survey drawing, Index # MASU001429

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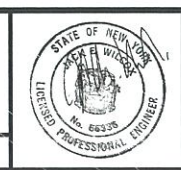


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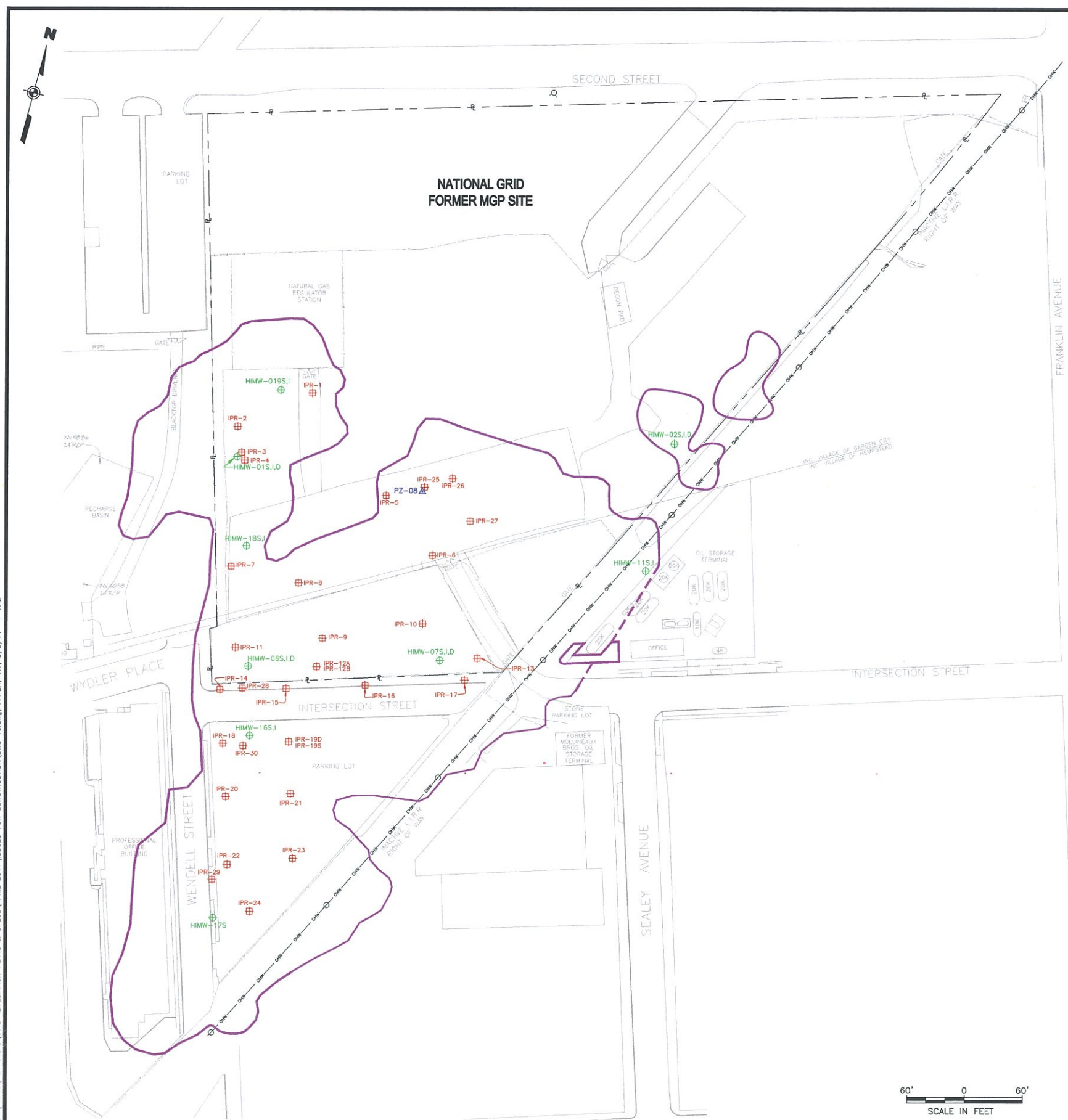
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BOTTOM OF SOLIDIFICATION	
Scale: AS SHOWN	Date: APRIL 2011
DWG-9A	



LEGEND - EXISTING

- FENCE
- FORMER MGP SITE BOUNDARY AND APPROXIMATE PROPERTY LINE
- DELINEATED LIMIT OF MGP SOURCE MATERIAL
- APPROXIMATE LIMITS OF MGP SOURCE MATERIAL
- LOCATION OF EXISTING STRUCTURE
- IPR-12 IRM PRODUCT RECOVERY WELL, URS 2008 & 2009
- PZ-02 PIEZOMETER/WELL LOCATION FROM ROY F. WESTON FIELD INVESTIGATION, MARCH 1993
- HIMW-05S GROUNDWATER MONITORING WELL (SHALLOW ZONE)
- HIMW-05I GROUNDWATER MONITORING WELL (INTERMEDIATE ZONE)
- HIMW-05D GROUNDWATER MONITORING WELL (DEEP ZONE)
- EXISTING METAL POLE
- EXISTING SIGN
- EXISTING GATE

NOTE:
NATIONAL GRID WILL PERFORM WELL DECOMMISSIONING WORK UNLESS OTHERWISE DIRECTED.

Performed by URS

WELL DECOMMISSIONING SUMMARY

Well ID	Well Depth (ft bgs)	Total Depth (ft bgs)	Ground Surface Elevation (ft amsl)	Casing Diameter (in)	Screened Depths Interval (ft bgs)	Description
HIMW-01S	38	38	69.41	2	26-36	Slotted PVC
HIMW-01I	86	86	69.27	2	74-87	Slotted PVC
HIMW-01D	124	152	69.39	2	112-122	Slotted PVC
HIMW-02S	40	40	71.79	2	28-38	Slotted PVC
HIMW-02I	90	90	76.82	2	78-88	Slotted PVC
HIMW-02D	116	130.5	71.73	2	104-114	Slotted PVC
HIMW-06S	37.5	38	68.3	2	25.5-35.5	Slotted PVC
HIMW-06I	84	85	68.09	2	72-82	Slotted PVC
HIMW-06D	118	132.5	67.89	2	106-116	Slotted PVC
HIMW-07S	41	41	70.8	2	29-39	Slotted PVC
HIMW-07I	90	90	70.31	2	78-88	Slotted PVC
HIMW-07D	117	132	70.75	2	105-115	Slotted PVC
HIMW-11S	40	40	71.69	2	28-38	Slotted PVC
HIMW-11I	92	92	71.6	2	80-90	Slotted PVC
HIMW-11D	121	126	71.61	2	109-119	Slotted PVC
HIMW-12S	34	35	61.85	2	22-32	Slotted PVC
HIMW-12I	75	76	61.9	2	63-73	Slotted PVC
HIMW-12D	129	182	62.09	2	117-127	Slotted PVC
HIMW-13S	49	50	73.14	2	38-48	Slotted PVC
HIMW-13I	82	83	73.01	2	70-80	Slotted PVC
HIMW-13D	122	175	72.95	2	110-120	Slotted PVC
HIMW-14I	97	97	72.01	2	85-95	Slotted PVC
HIMW-14D	152	152	71.99	2	140-150	Slotted PVC
HIMW-15I	92	93	64.59	2	80-90	Slotted PVC
HIMW-15D	153.5	153.5	64.36	2	141.5-151.5	Slotted PVC
HIMW-16S	36	36	67.81	2	24-34	Slotted PVC
HIMW-16I	82	82	67.92	2	70-80	Slotted PVC
HIMW-17S	37	37	66.42	2	25-35	Slotted PVC
HIMW-18S	42	42	69.94	2	25-40	Slotted PVC
HIMW-18I	72	72	70.07	2	55-70	Slotted PVC
HIMW-19S	37	37	69.42	2	25-35	Slotted PVC
HIMW-19I	67	67	69.66	2	55-65	Slotted PVC
HIMW-20S	37	37	70.79	2	25-35	Slotted PVC
HIMW-20I	75	75	70.94	2	63-73	Slotted PVC
IPR-1	45	45	NM	1	10-45	Slotted PVC
IPR-2	75	75	NM	6	15-70	Slotted PVC
IPR-3	45	45	NM	6	10-40	Slotted PVC
IPR-4	88	88	NM	6	73-83	Slotted PVC
IPR-5	55	55	NM	1	10-55	Slotted PVC
IPR-6	56.5	56.5	NM	6	11.5-51.5	Slotted PVC
IPR-7	45	45	NM	1	10-45	Slotted PVC
IPR-8	55	55	NM	1	10-50	Slotted PVC
IPR-9	65	65	NM	6	10-60	Slotted PVC
IPR-10	45	45	NM	6	15-40	Slotted PVC
IPR-11	45	45	NM	6	15-40	Slotted PVC
IPR-12A	45	45	NM	1	10-45	Slotted PVC
IPR-12B	45	45	NM	6	15-40	Slotted PVC
IPR-13	45	45	NM	6	15-40	Slotted PVC
IPR-14	43.8	43.8	NM	6	8.8-38.8	Slotted PVC
IPR-15	44.5	44.5	NM	6	9.4-39.4	Slotted PVC
IPR-16	51	51	NM	5.75	16-46	Slotted PVC
IPR-17	56	56	NM	5.75	21-51	Slotted PVC
IPR-18	50	50	NM	6	15-45	Slotted PVC
IPR-19S	45	45	NM	6	10-40	Slotted PVC
IPR-19D	91	91	NM	6	65-85	Slotted PVC
IPR-20	45	45	NM	6	10-40	Slotted PVC
IPR-21	45	45	NM	6	10-40	Slotted PVC
IPR-22	45	45	NM	6	10-40	Slotted PVC
IPR-23	45	45	NM	6	10-40	Slotted PVC
IPR-24	45	45	NM	6	20-40	Slotted PVC
IPR-25	45	45	NM	6	15-40	Slotted PVC
IPR-26	45	45	NM	6	25-40	Slotted PVC
IPR-27	45	45	NM	6	25-40	Slotted PVC
IPR-28	50	50	NM	6	25-40	Slotted PVC
IPR-29	50	50	NM	6	25-40	Slotted PVC
IPR-30	50	50	NM	6	25-40	Slotted PVC
PZ-08	38	38	70.89	2	26-36	Slotted PVC

ft bgs feet below ground surface
ft amsl feet above mean sea level
in inches
NM not measured

SOURCES:

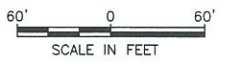
- HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE FINAL REMEDIAL INVESTIGATION REPORT INDICATED ON DWG-3.
- URS, MARCH 2006, URS IRM INVESTIGATION DATA - IPR WELL CONSTRUCTION LOGS

NOTES:

- WELLS SHALL BE DECOMMISSIONED IN ACCORDANCE WITH SPECIFICATION SECTION 02610.
- ONLY WELLS WITHIN THE PROPOSED SOLIDIFICATION AREA ARE TO BE DECOMMISSIONED.
- ONLY THE WELLS TO BE DECOMMISSIONED ARE SHOWN ON THIS SHEET.
- FOR LOCATION OF EXISTING TREES, SEE DWG-3.

ISSUED FOR CONSTRUCTION

THIS DRAWING CONTAINS FEATURES INTENDED TO BE PRINTED IN COLOR AS SHOWN ON ORIGINAL CONTRACT DRAWINGS. REPRODUCTION IN BLACK AND WHITE MAY OBSCURE THE INTENDED EFFECT OF THE COLOR FEATURES.



WARNING: IT IS A VIOLATION OF SECTION 2209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON OTHER THAN WHOSE SEAL APPEARS ON THIS DRAWING TO ALTER IN ANY WAY ANY ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	DATE	BY	DESCRIPTION
1	8/2011	JAS	ISSUED FOR CONSTRUCTION

DESIGNED BY: DNM
DRAWN BY: RAL
CHECKED BY: EWK
PROJ. MGR: JAS

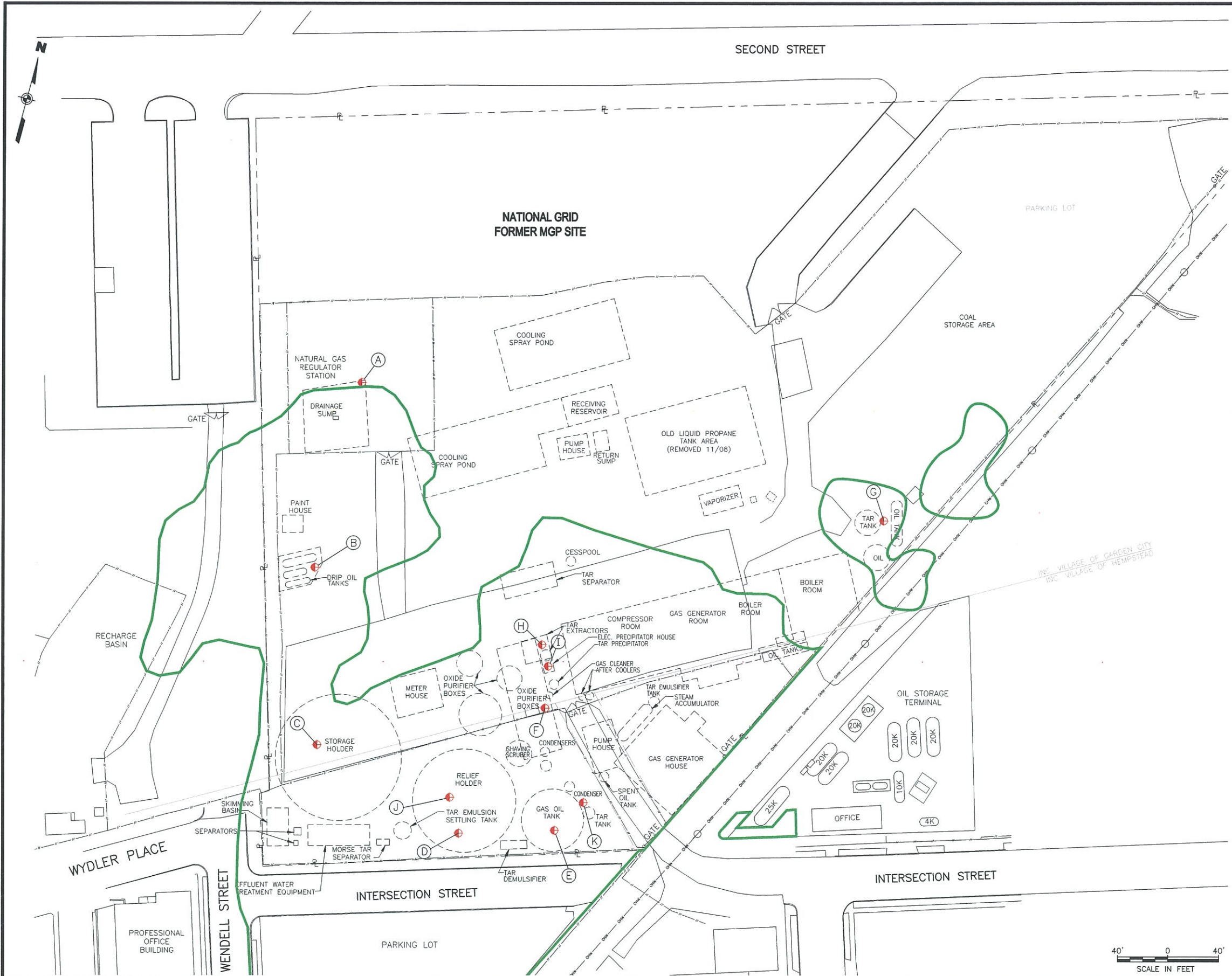
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THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

WELL DECOMMISSIONING PLAN
Scale: AS SHOWN Date: APRIL 2011 DWG-10



- NOTES:**
1. LOCATIONS SHOWN FOR FORMER MGP FEATURES WERE TAKEN FROM FINAL REMEDIAL INVESTIGATION REPORT DATED NOVEMBER 2006 BY PAULUS, SOKOLOWSKI AND SARTOR ENGINEERING, P.C. REFERENCE RI FIGURE 1-4. BASE MAP AND FORMER MGP SITE FEATURES IN RI WAS PREPARED BY DVIRKA AND BARTOLUCCI CONSULTING ENGINEERS, A DIVISION OF WILLIAM F COSULICH ASSOCIATES, P.C.
 2. APPROXIMATE CONCRETE DEPTHS WERE OBTAINED FROM PREVIOUS SUBSURFACE INVESTIGATIONS. DEPTHS ARE MEASURED FROM EXISTING ELEVATIONS DOWNWARD.
 3. ADDITIONAL CONCRETE SLABS AND/OR FOUNDATIONS MAY BE ENCOUNTERED DURING EXCAVATION ACTIVITIES.
 4. REFER TO SPECIFICATION SECTIONS 02110 FOR SITE CLEARING AND PREPARATION, 02260 FOR EXCAVATION SUPPORT AND PROTECTION, AND 02300 FOR EARTHWORK AND BACKFILL.
 5. FOR LOCATION OF EXISTING TREES, SEE DWG-3.

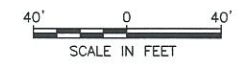
LEGEND - EXISTING

- FENCE
- - - FORMER MGP SITE BOUNDARY AND APPROXIMATE PROPERTY LINE
- APPROXIMATE LOCATION OF FORMER MGP STRUCTURE
- LIMIT OF MGP SOURCE MATERIAL TREATMENT
- ⊙ LOCATION OF KNOWN CONCRETE SLAB/FOUNDATION

LOCATION	MGP STRUCTURE NAME	APPROXIMATE FOUNDATION EXTENT BGS (FEET)	BORING LOG NUMBER
A	DRAINAGE SUMP	9	HISB-57
B	DRIP OIL TANKS	14	HISB-14
C	STORAGE HOLDER	8	HITP-07
D	RELIEF HOLDER	0 - 3	HITP-05
E	GAS OIL TANK	0 - 2	HITP-13
F	OXIDE PURIFIER BOXES	0 - 4	TP-35(B)
G	OIL TANK/TAR TANK	8	HISB-17
H	TAR EXTRACTORS	8	HISB-16
I	ELECT. PRECIPITATOR HOUSE	4	HITP-04
J	RELIEF HOLDER	0	HISB-33
K	CONDENSER / TAR TANK	0	HIMW-070

NOTE: THE SHOWN FOUNDATION EXTENT IS TAKEN ONLY FROM THE SHOWN BORING.

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ISSUED FOR CONSTRUCTION

J:\11750605\0000\CAD\DRAWING\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 11.dwg, PAPER: 1:1, 8/16/11, -1-RLL

REVISIONS

NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

DESIGNED BY: EWK
 DRAWN BY: RAL
 CHECKED BY: RJP
 PROJ. MGR. JAS

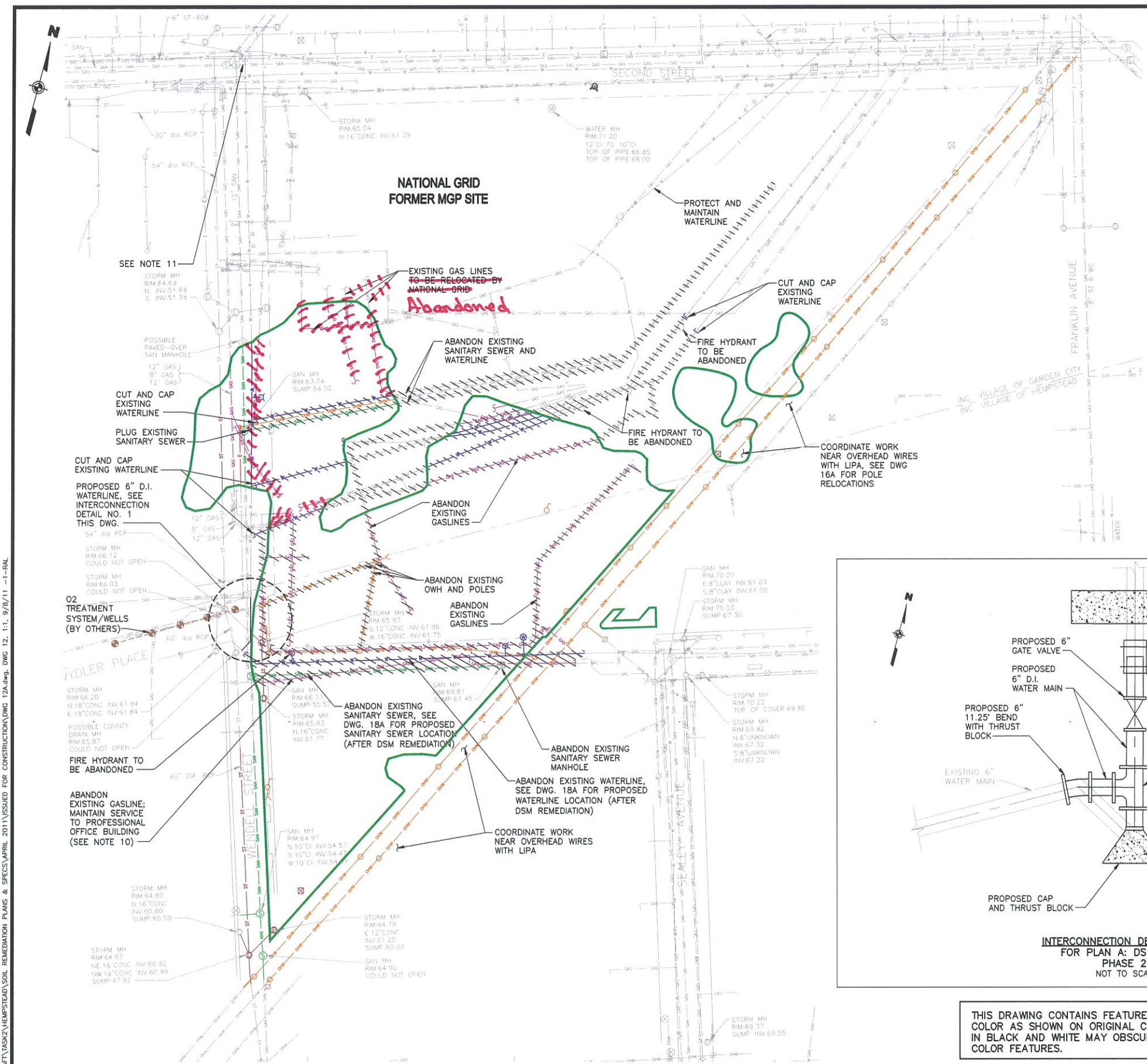
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THE HEMPSTEAD
 INTERSECTION STREET
 FORMER MANUFACTURED GAS
 PLANT SITE

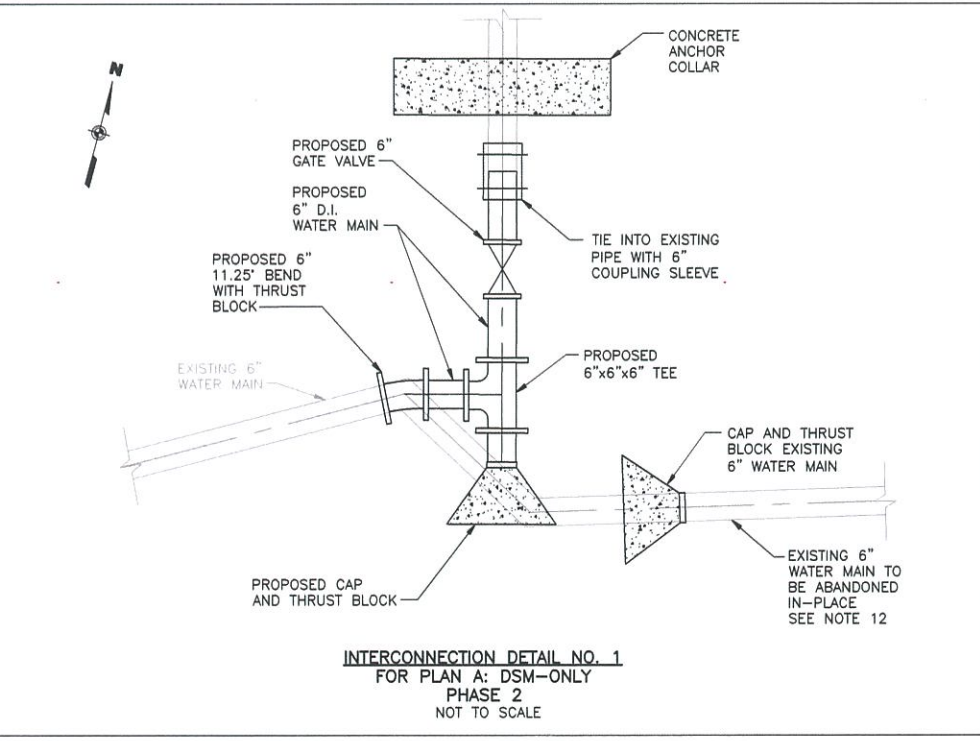
INFRASTRUCTURE
 DECOMMISSIONING PLAN
 Scale: AS SHOWN Date: APRIL 2011 DWG-11



- NOTES:**
- LOCATIONS SHOWN FOR FORMER MGP FEATURES WERE TAKEN FROM FINAL REMEDIAL INVESTIGATION REPORT DATED NOVEMBER 2006 BY PAULUS, SOKOLOWSKI AND SARTOR ENGINEERING, P.C. REFERENCE RI FIGURE 1-4. BASE MAP AND FORMER MGP SITE FEATURES IN RI WAS PREPARED BY DVIRKA AND BARTOLUCCI CONSULTING ENGINEERS, A DIVISION OF WILLIAM F COSULICH ASSOCIATES, P.C.
 - THE SHOWN UTILITIES SHALL BE CONSIDERED AS APPROXIMATE LOCATIONS, BASED ON INFORMATION MADE AVAILABLE TO URS. SHOWN UTILITIES/LOCATIONS MAY OR MAY NOT BE COMPLETE, ACTIVE, OR DECOMMISSIONED. ANY PROPOSED CONSTRUCTION NEAR SUCH UTILITIES REQUIRES CONFIRMATION OF UTILITY LOCATIONS AND DETAILED REVIEW OF UTILITY SOURCE MAPPING.
 - EXISTING UTILITIES SHOWN IN COLOR ARE THOSE THAT MAY EXIST WITHIN OR ADJACENT TO PROPOSED REMEDIATION LIMITS. THESE EXISTING UTILITIES SHALL BE PROTECTED, MAINTAINED, RELOCATED, OR ABANDONED IN-PLACE WHERE INDICATED OR DIRECTED.
 - SEE DWG-26 FOR UTILITY ABANDONMENT DETAILS. REMOVE ONLY THE PORTION OF UNDERGROUND UTILITY THAT CONFLICTS WITH REMEDIATION WORK LIMITS.
 - SEE DWG-4 FOR SURVEY AND RECORD PLAN SOURCE INFORMATION.
 - FOR LOCATION OF EXISTING TREES, SEE DWG-3.
 - ALL GAS AND ELECTRICAL DISTRIBUTION REMOVALS AND ABANDONMENTS SHALL BE COORDINATED WITH NATIONAL GRID PRIOR TO THE START OF WORK. PRIOR TO ANY GAS LINE WORK, FOLLOW THE PROCEDURES DETAILED IN SPECIFICATION SECTION 01056 INCLUDING THE GAS LINE LOCATION WORK PLAN DESCRIBED THERE.
 - PRIOR TO WORK THAT MAY AFFECT UTILITIES, COORDINATE WITH ALL SUCH UTILITIES FOR REQUIRED PROCEDURES FOR PROTECTION AND ABANDONMENT. FOR UTILITY NOTIFICATION AND PROTECTION REQUIREMENTS, REFER TO SPECIFICATION 01056.
 - CONTRACTOR SHALL ACQUIRE ALL REQUIRED PERMITS FROM THE VILLAGE OF HEMPSTEAD AND GARDEN CITY PRIOR TO ANY CONSTRUCTION OF WATERLINE OR SANITARY SEWER.
 - THE 60 PSI GAS LINE UNDER INTERSECTION STREET MAY ONLY BE TAKEN OUT OF SERVICE DURING THE PERIOD BETWEEN APRIL 1 AND OCTOBER 31, 2012.
 - ABANDON EXISTING 6" WATERLINE FROM EXISTING VALVE AT SECOND ST. TO WYDLER PLACE DURING REMEDIATION IN GARDEN CITY PARK. REMOVE ONLY THE PORTION OF THE EXISTING PIPE THAT CONFLICTS WITH REMEDIATION WORK LIMITS. RESTORE WATERLINE TO ORIGINAL LOCATION AFTER REMEDIATION IN PHASE 1 IS COMPLETED.
 - THIS DRAWING SHOWS DETAILS FOR ABANDONMENT OF EXISTING 6" WATERLINE ON INTERSECTION STREET FOR PHASE 2 CONSTRUCTION. WATERLINE ADJACENT TO GARDEN CITY PARK WILL ALSO BE ABANDONED FOR REMEDIATION ACTIVITIES DURING PHASE 1 CONSTRUCTION. WATER SERVICE TO PROFESSIONAL OFFICE BUILDING MUST BE MAINTAINED AT ALL TIMES.

LEGEND - EXISTING

- FENCE
- - - FORMER MGP SITE BOUNDARY AND APPROXIMATE PROPERTY LINE
- LIMIT OF MGP SOURCE MATERIAL TREATED
- STRUCTURE
- //// DEMOLISH OR ABANDON UTILITY AFTER COORDINATION WITH AFFECTED UTILITIES
- GAS GAS LINE TAKEN FROM REFERENCE DRAWINGS PROVIDED BY NATIONAL GRID
- E UNDERGROUND ELECTRIC LINE
- OHW OVERHEAD ELECTRIC LINE
- SAN SANITARY SEWER LINE
- ST STORM SEWER LINE
- TELEPHONE LINE
- W WATER LINE
- ⊠ DRAINAGE INLET
- ⊙ STORM MH
- ⊙ SANITARY MH
- ⊠ TELEPHONE MANHOLE
- ⊙ UNKNOWN MANHOLE
- ⊙ WATER MANHOLE
- ⊙ FIRE HYDRANT
- ⊠ ELECTRIC MANHOLE
- ⊙ LIGHT POLE
- ⊙ UTILITY POLE
- ⊙ GUY WIRE
- ⊙ GAS VALVE
- ⊙ WATER VALVE
- ⊙ SIGN
- ⊙ METAL POLE
- ⊙ GATE



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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	RJP	JAS	9/2011	NOTE 10 REVISED PER ADDENDUM 1
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

DESIGNED BY: EWK
 DRAWN BY: RAL
 CHECKED BY: RJP
 PROJ. MGR. JAS

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 JOB NO. 11176098

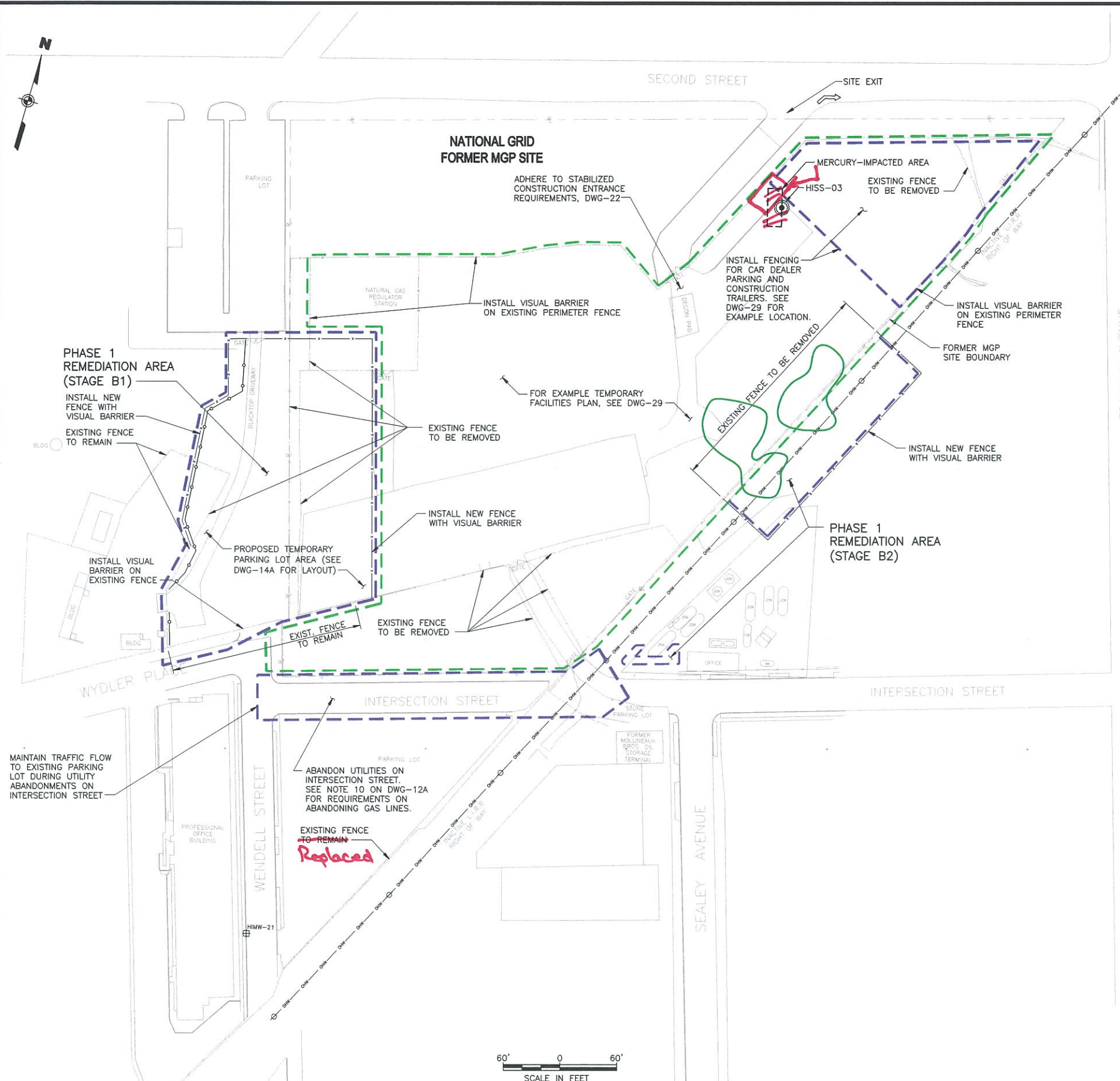


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THE HEMPSTEAD
 INTERSECTION STREET
 FORMER MANUFACTURED GAS
 PLANT SITE

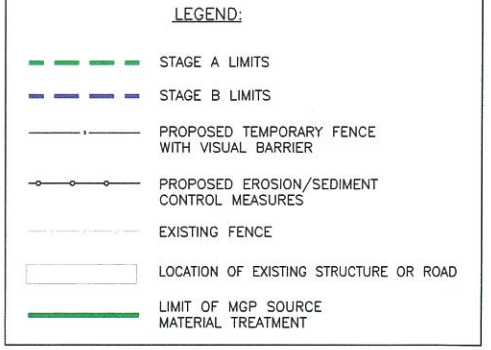
**UTILITY PROTECTION AND
 DECOMMISSIONING PLAN**
 Scale: AS SHOWN Date: APRIL 2011 DWG-12A

J:\1175065\00000\CAD\DRAWING\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 13A.dwg 1:1 9/9/11 - 4 RAL



NOTES:

1. THE CONTRACTOR SHALL STAGE CONSTRUCTION TO PROVIDE A CONTINUOUS AND UNOBSTRUCTED PARKING AREA FOR THE PROFESSIONAL OFFICE BUILDING DURING BOTH PHASE 1 AND 2 OF THE REMEDIATION PROJECT.
2. SEE DWG-24 FOR HANDICAP ACCESSIBLE PARKING SPACE LAYOUT.
3. SEE DWG-23 FOR NEW FENCE AND GATE DETAILS. FENCING AND GATES SHALL BE INSTALLED PER SPECIFICATION SECTION 02821.
4. TEMPORARY PARKING LOT SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AT ALL TIMES AND DRAIN AWAY FROM HANDICAP PARKING STALLS.
5. SEE DETAIL ON DWG-20 FOR TEMPORARY PARKING LOT PAVEMENT SECTION.
6. CONSTRUCTION SEQUENCING AND SCHEDULING SHALL BE COORDINATED WITH TIME ALLOWANCES REQUIRED BY ALL UTILITIES ON THEIR REQUIRED PROTECTION MEASURES, NOTIFICATIONS, REVIEW AND APPROVALS.
7. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF PROPOSED MET STATION AND TEMPORARY FACILITIES WITH SOIL SAMPLING AND EXCAVATION OF MERCURY IMPACTED AREA. SEE DWG-29 FOR EXAMPLE OF TEMPORARY FACILITIES LAYOUT.
8. TREE PROTECTION ZONE NOT SHOWN. REFER TO SPECIFICATION SECTION 02231 FOR REQUIRED LIMITS.
9. FOR LOCATION OF EXISTING TREES, SEE DWG-3.
10. FOR EXCAVATION REQUIREMENTS, INCLUDING DUST AND ODOR CONTROL, DURING EXCAVATIONS, REFER TO SPECIFICATION SECTION 02300. REFER TO SPECIFICATION SECTION 01056 FOR NOISE/VIBRATION REQUIREMENTS DURING EXCAVATIONS.
11. PROTECT ALL CATCH BASINS IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
12. CONSTRUCTION ACCESS TO/FROM WYDLER PLACE IS PROHIBITED.



GENERAL CONSTRUCTION SEQUENCE - PHASE 1:

- STAGE A**
- CONTRACTOR MOBILIZATION.
 - ERECT TEMPORARY CONTAINMENT BUILDING.
 - ESTABLISH SUPPORT AREAS (FIELD OFFICE TRAILERS, BATCH PLANT, MATERIAL STAGING & EQUIPMENT LAYDOWN AREAS). SEE DWG-29.
 - INSTALL TEMPORARY CONSTRUCTION FENCES AND EROSION /SEDIMENT CONTROL MEASURES ON THE FORMER MGP SITE.
 - OTHERS TO INSTALL COMMUNITY AIR MONITORING SYSTEM AND COLLECT BACKGROUND DATA.
 - DECOMMISSION MONITORING WELLS, PIEZOMETERS, AND PRODUCT RECOVERY WELLS (BY NATIONAL GRID UNLESS DIRECTED OTHERWISE). SEE DWG-10.
 - CLEAR AND GRUB AS NECESSARY.
 - NATIONAL GRID TO RELOCATE GAS LINES IN THE VICINITY OF THE REGULATOR STATION. SEE DWG-12A.
- STAGE B**
- REMEDIATE MERCURY IMPACTED AREAS.
 - INSTALL SITE FACILITIES, GROUT BATCH PLANT, AND MOBILIZE DEEP SOIL MIXING EQUIPMENT.
 - REMOVE, RELOCATE, OR PROTECT UTILITIES WITHIN THE PHASE 1 REMEDIATION AREA.
 - POSITION THE TEMPORARY CONTAINMENT BUILDING.
 - CONSTRUCT TEMPORARY CAR DEALER PARKING AREA.
 - EXCAVATE FORMER MGP SITE IN AREA OF PROPOSED TEMPORARY PARKING LOT.
 - CLEAR AND GRUB AND REMOVE TREES WITHIN FOOTPRINT OF STAGE B1.
 - ROUGH GRADE AND EXCAVATE NEAR RECHARGE BASIN. SEE DWG-16A.
 - REMOVE AND RELOCATE UTILITIES WITHIN INTERSECTION STREET. SEE DWG-12A.
 - CONDUCT DSM FIELD DEMONSTRATION TEST PROGRAM.
 - DEEP SOIL MIX AREA SHOWN IN STAGE B1 LIMITS (AREA OF PROPOSED TEMPORARY PARKING LOT).
 - REMEDIATE AREAS SHOWN IN STAGE B2 LIMITS ALONG LIRR ROW.
 - CONSTRUCT TEMPORARY PARKING LOT IN AREA STAGE B1, SHOWN ON DWG-14A.

Sequence adjusted throughout project due to various site constraints.

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ISSUED FOR CONSTRUCTION

NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	RJP	JAS	8/2011	NOTES REVISED FOR DRAWING REFERENCES
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

DESIGNED BY: DNM
 DRAWN BY: RAL
 CHECKED BY: EWK
 PROJ. MGR. JAS

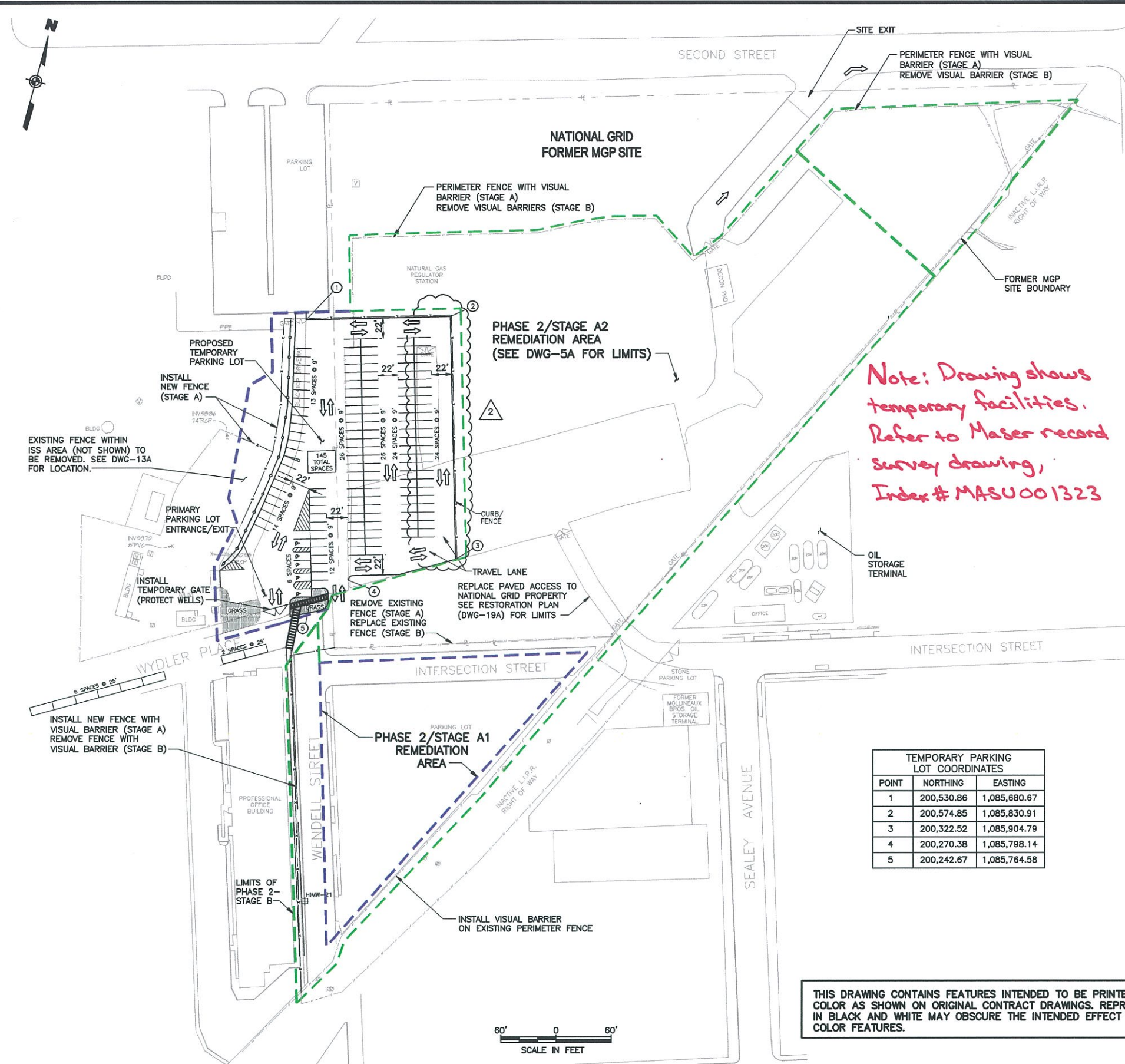
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 THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE
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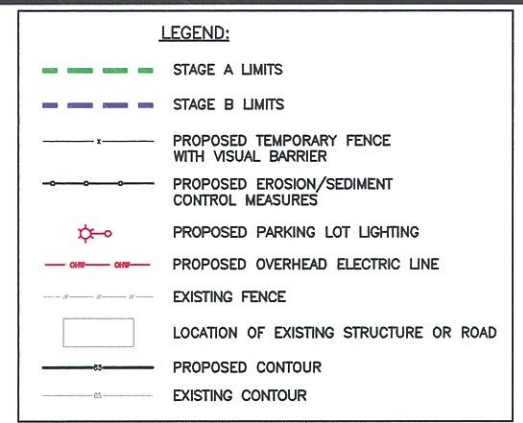
THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

CONSTRUCTION SEQUENCING PLAN (SHEET 1 OF 2)	
Scale: AS SHOWN	Date: APRIL 2011
DWG-13A	



Note: Drawing shows temporary facilities. Refer to Maser record survey drawing, Index # MASU001323

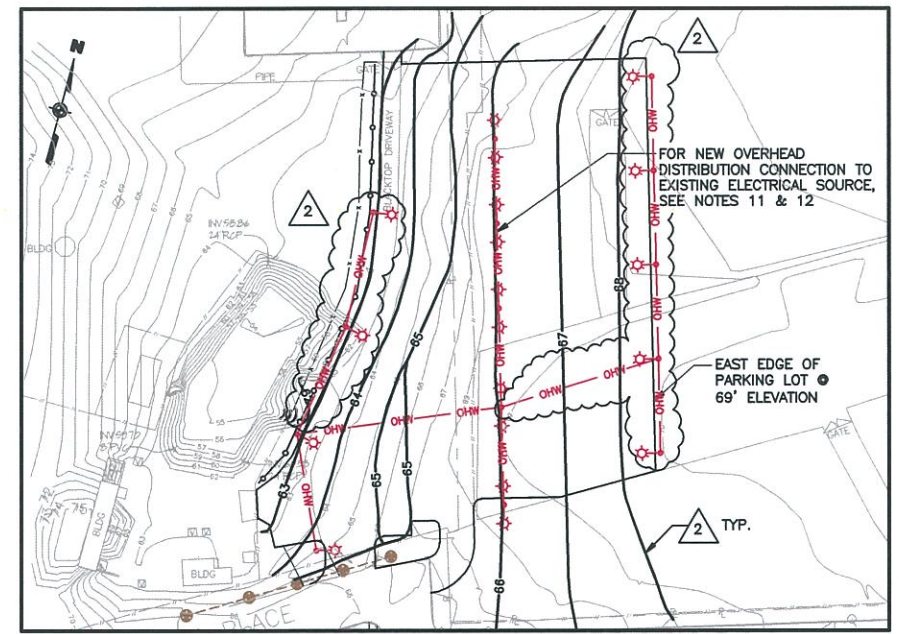
- NOTES:**
- THE CONTRACTOR SHALL STAGE CONSTRUCTION TO PROVIDE A CONTINUOUS AND UNOBSTRUCTED PARKING AREA FOR THE PROFESSIONAL OFFICE BUILDING DURING BOTH PHASE 1 AND 2 OF THE REMEDIATION PROJECT.
 - SEE DWG-24 FOR HANDICAP ACCESSIBLE PARKING SPACE LAYOUT.
 - SEE DWG-23 FOR NEW FENCE AND GATE DETAILS. FENCING AND GATES SHALL BE INSTALLED PER SPECIFICATION SECTION 02821.
 - SEE DWG-25 FOR CONCRETE CURB, SIDEWALK, AND DRIVEWAY APPROACH DETAILS.
 - SEE DWGS-27 & 28 FOR PARKING LOT LIGHTING PLAN AND DETAILS.
 - TEMPORARY FENCE WITH VISUAL BARRIER ASSOCIATED WITH THE TEMPORARY PARKING LOT SHALL BE INSTALLED PRIOR TO THE START OF STAGE A.
 - TREE PROTECTION ZONE NOT SHOWN. REFER TO SPECIFICATION SECTION 02231 FOR REQUIRED LIMITS.
 - FOR LOCATION OF EXISTING TREES, SEE DWG-3.
 - FOR FINAL GRADING OF PROPOSED TEMPORARY PARKING LOT, SEE DWG-18A.
 - FOR STABILIZED CONSTRUCTION ENTRANCE DETAIL, SEE DWG-22.
 - LIGHT FIXTURE: 150W METAL HALIDE, TYPE III DISTRIBUTION, MOUNTED 25' ABOVE FINISHED GRADE ON TEMPORARY STANDARD WOODEN POLE. INTEGRAL PHOTO SENSOR CONTROL. BASIS OF DESIGN: LITHONIA LIGHTING KAD 150M R3 TB SCWA WWD 09. PROVIDE TEMPORARY WOOD POLES WITH OVERHEAD DISTRIBUTION FOR LIGHTING AND ALL NECESSARY SUPPORTS. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE FUNCTIONING TEMPORARY LIGHTING SYSTEM IN TEMPORARY PARKING AREA AS SHOWN; TO MEET ALL APPLICABLE CODES AND STANDARDS.
 - PROVIDE CONNECTION TO EXISTING NATIONAL GRID POWER SERVICE ON SITE. PROVIDE OVERHEAD FEED FROM SERVICE TO LIGHTING SYSTEM AND A MAIN SERVICE DISCONNECT AT SERVICE. COORDINATE SERVICE LOCATION WITH OWNER.
 - GROUND LIGHTING SYSTEM PER NEC.
 - TEMPORARY PARKING LOT SHALL BE CONSTRUCTED PRIOR TO STARTING REMEDIATION WORK IN PHASE 2/STAGE A1 AREA. ONCE THE EXISTING PARKING LOT, INTERSECTION AND WENDELL STREET ARE FULLY RESTORED, THE TEMPORARY PARKING LOT MAY BE ABANDONED. SEE DWG-18A AND 19A FOR RESTORATION PLAN.



GENERAL CONSTRUCTION SEQUENCE - PHASE 2:

- STAGE A**
- INSTALL SOIL-CRETE RETAINING WALL AND EXCAVATE AS SHOWN ON EXCAVATION PLAN DWG-16A STAGE A1 AREA.
 - STOCKPILE SOILS IN PHASE 2/STAGE A2 AREA AS REQUIRED.
 - DSM STAGE A1 AREA AND STOCKPILE SPOILS IN PHASE 2/STAGE A2 AREA.
 - BACKFILL PHASE 2/STAGE A1 AREA.
 - EXCAVATE/DISPOSE MGP SOURCE MATERIAL AND FORMER MGP STRUCTURES, PHASE 2/STAGE A2 AREA.
 - DSM STAGE A2 AREA. (DWG-5A)
- STAGE B**
- RESTORE PHASE 2/STAGE A1 UTILITIES, INTERSECTION AND WENDELL STREET, AND PERMANENT PARKING LOT. (DWG-18A AND 19A)
 - REMOVE TEMPORARY PARKING LOT AND RESTORE AREA.
 - RESTORE PHASE 2/STAGE A2 AREA.
 - REMOVE VISUAL BARRIERS ON PERIMETER FENCES AND RESTORE PERIMETER FENCES TO ORIGINAL LOCATIONS.

Adjusted per DWG-13A



THIS DRAWING CONTAINS FEATURES INTENDED TO BE PRINTED IN COLOR AS SHOWN ON ORIGINAL CONTRACT DRAWINGS. REPRODUCTION IN BLACK AND WHITE MAY OBSCURE THE INTENDED EFFECT OF THE COLOR FEATURES.

REVISIONS

NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	RAL	RJP	4/2013	REVISED PARKING LOT SIZE, GRADING, AND LIGHTING
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

DESIGNED BY: **DNM**
 DRAWN BY: **RAL**
 CHECKED BY: **EWK**
 PROJ. MGR. **JAS**

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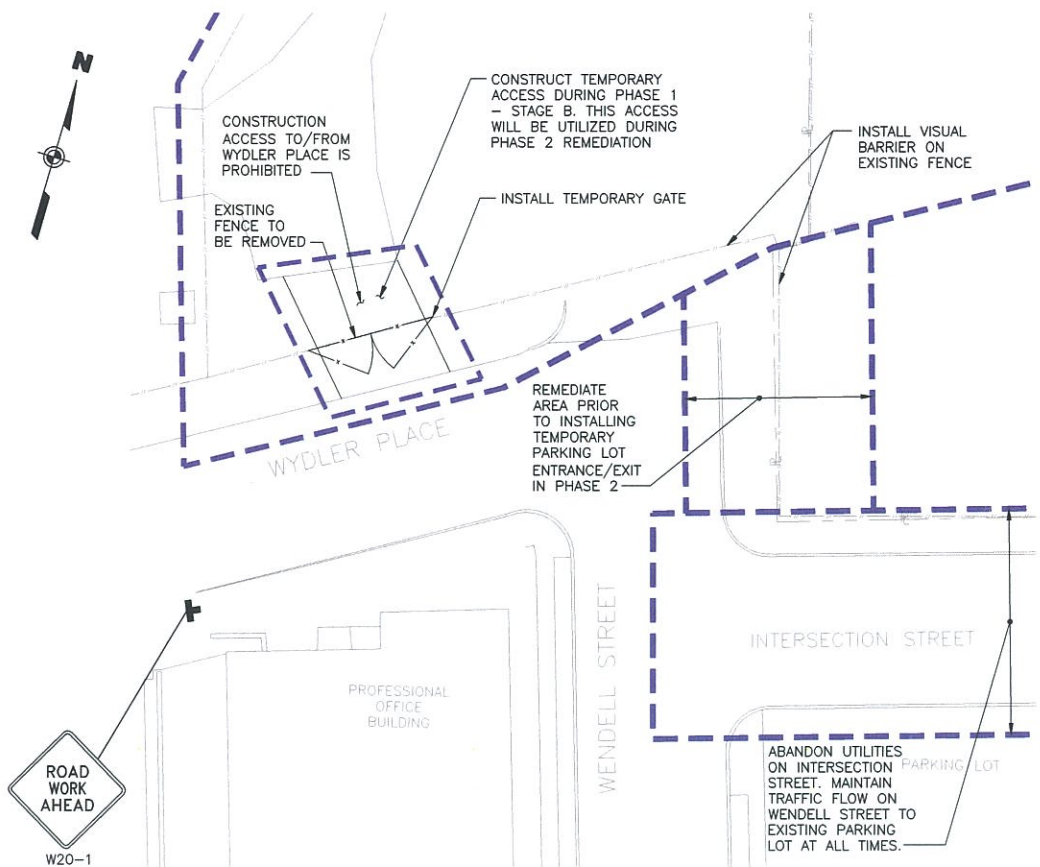
THE HEMPSTEAD
 INTERSECTION STREET
 FORMER MANUFACTURED GAS
 PLANT SITE

ISSUED FOR CONSTRUCTION

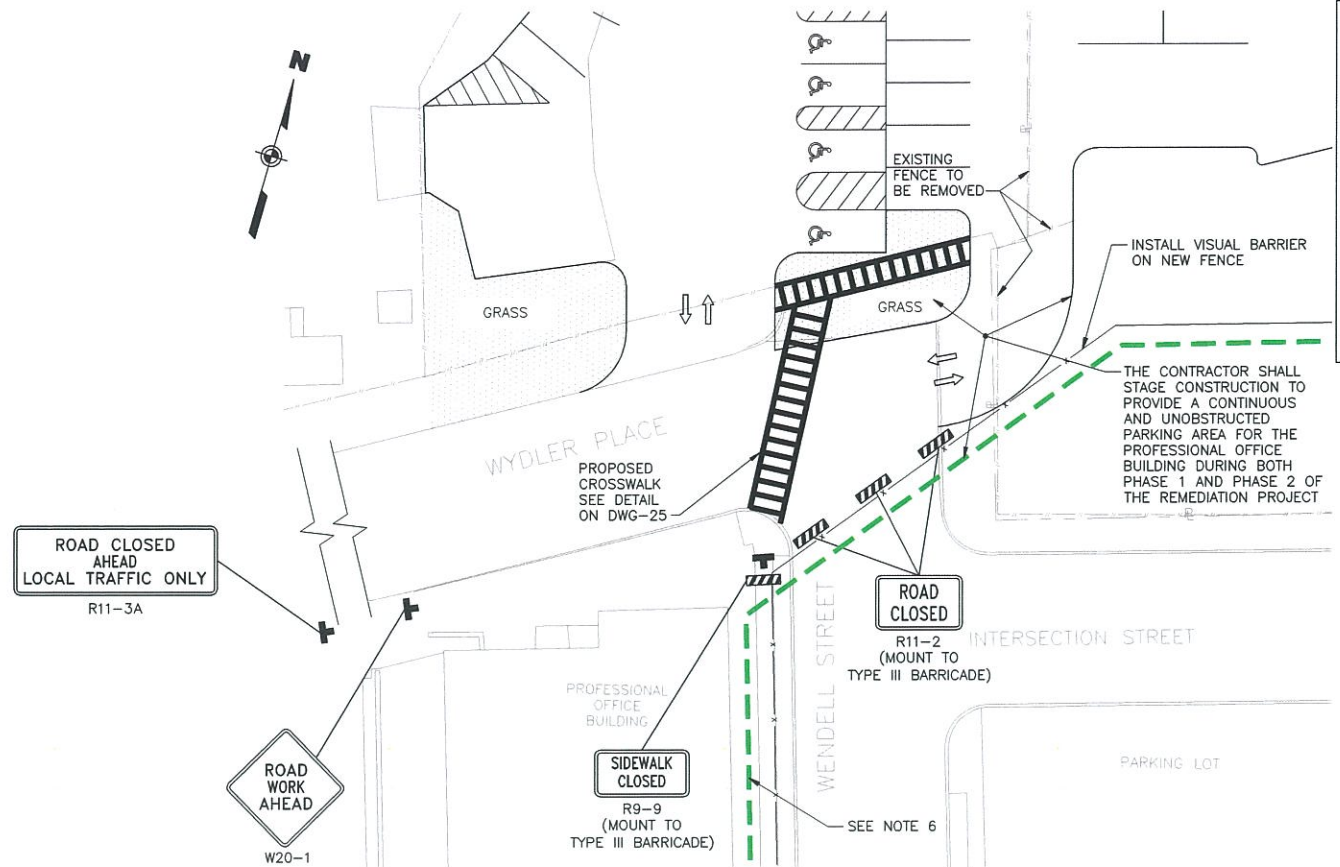
CONSTRUCTION SEQUENCING
 PLAN (SHEET 2 OF 2)

Scale: AS SHOWN Date: APRIL 2011 DWG-14A

This drawing was prepared specifically for the project shown on the title block. It is not to be used for any other project without the written consent of the engineer.



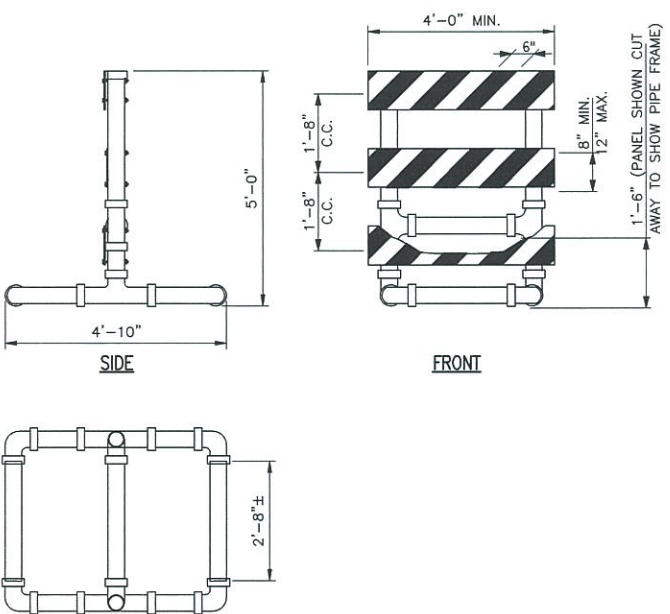
PHASE 1 TRAFFIC PLAN
SCALE IN FEET
20' 0 20'



PHASE 2 TRAFFIC PLAN
SCALE IN FEET
20' 0 20'

LEGEND:

	TEMPORARY SIGN
	TYPE III BARRICADE
	STAGE A LIMITS
	STAGE B LIMITS
	PROPOSED TEMPORARY FENCE WITH VISUAL BARRIER
	EXISTING FENCE
	LOCATION OF EXISTING STRUCTURE OR ROAD



TYPE III CONSTRUCTION BARRICADE
SCALE: 1/2" = 1'-0"

TYPE III BARRICADE NOTES:

1. THE DETAILS AND MATERIALS FOR TYPE III CONSTRUCTION BARRICADES ARE NCHRP 350 APPROVED.
2. PANELS SHALL HAVE 6" WIDE REFLECTORIZED ORANGE AND WHITE DIAGONAL STRIPES OF TYPE I OR TYPE III SHEETING SLOPING AT AN ANGLE OF 45°, IN ACCORDANCE WITH 729-08 THE LATEST VERSION OF THE NYSOT STANDARD SPECIFICATIONS. THE STRIPE SHALL SLOPE DOWNWARD TOWARD THE SIDE ON WHICH TRAFFIC IS TO PASS.
3. BALLAST MAY BE PLACED ON THE BASE MEMBERS OF THE BARRICADE. BALLAST SHALL NOT EXTEND INTO THE ACCESSIBLE PASSAGE WIDTH OF 5' WHERE BARRICADES ARE USED TO CHANNELIZE PEDESTRIANS.
4. ALL PIPES SHALL BE WHITE. WHITE FITTINGS ARE PREFERRED, BLACK MAY BE USED. ALL JOINTS SHALL BE GLUED WITH A SOLVENT CEMENT COMPATIBLE WITH THE P.V.C. PIPE.
5. IF BARRICADES ARE USED TO TEMPORARILY CHANNELIZE PEDESTRIANS, THERE SHALL BE CONTINUOUS DETECTABLE BOTTOM AND TOP RAILS WITH NO GAP BETWEEN INDIVIDUAL BARRICADES TO BE DETECTABLE TO BLIND OR VISUALLY IMPAIRED USERS OF LONG CANES. THE BOTTOM OF THE BOTTOM RAIL SHALL BE NO HIGHER THAN 6" ABOVE THE GROUND AND THE TOP OF THE TOP RAIL SHALL BE NO LOWER THAN 3' ABOVE THE GROUND.

NOTES:

1. THE ROADWAY SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
2. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL COMPLY WITH THE 2003 EDITION OF THE NATIONAL MANUAL ON TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT.
3. NO NIGHT WORK WILL BE ALLOWED UNLESS PRIOR WRITTEN APPROVAL IS GIVEN BY NATIONAL GRID. ADDITIONAL MAINTENANCE AND PROTECTION OF TRAFFIC WILL BE REQUIRED DURING ANY NIGHT WORK INCLUDING THE ADDITION OF REFLECTIVE MATERIALS AND LIGHTING.
4. ACTUAL FIELD CONDITIONS MAY REQUIRE OTHER SIGNS OR OTHER ARRANGEMENTS OF SIGNS. DISTANCES SHALL BE ADAPTED TO PREVAILING CONDITIONS. SIGNS SHALL BE LOCATED TO PROVIDE OPTIMUM VISIBILITY. SIGNS THAT ARE NOT APPLICABLE SHALL BE COVERED OR OBSCURED FROM SIGHT. ALL SIGN NUMBERS REFER TO THE 2003 EDITION OF THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT.
5. PEDESTRIAN ACCOMMODATIONS SHALL BE MAINTAINED FOR THE DURATION OF THE PROPOSED WORK. ANY DISTURBED AREAS WITHIN THE ROADWAY RIGHT-OF-WAY SHALL BE ADEQUATELY FENCED TO PREVENT PEDESTRIAN ACCESS WHEN THE CONTRACTOR'S OPERATIONS ARE SHUT DOWN.
6. ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIME ON WENDELL STREET.

THIS DRAWING CONTAINS FEATURES INTENDED TO BE PRINTED IN COLOR AS SHOWN ON ORIGINAL CONTRACT DRAWINGS. REPRODUCTION IN BLACK AND WHITE MAY OBSCURE THE INTENDED EFFECT OF THE COLOR FEATURES.

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION
REVISIONS				

DESIGNED BY: DNM
DRAWN BY: RAL
CHECKED BY: EWK
PROJ. MGR.: JAS

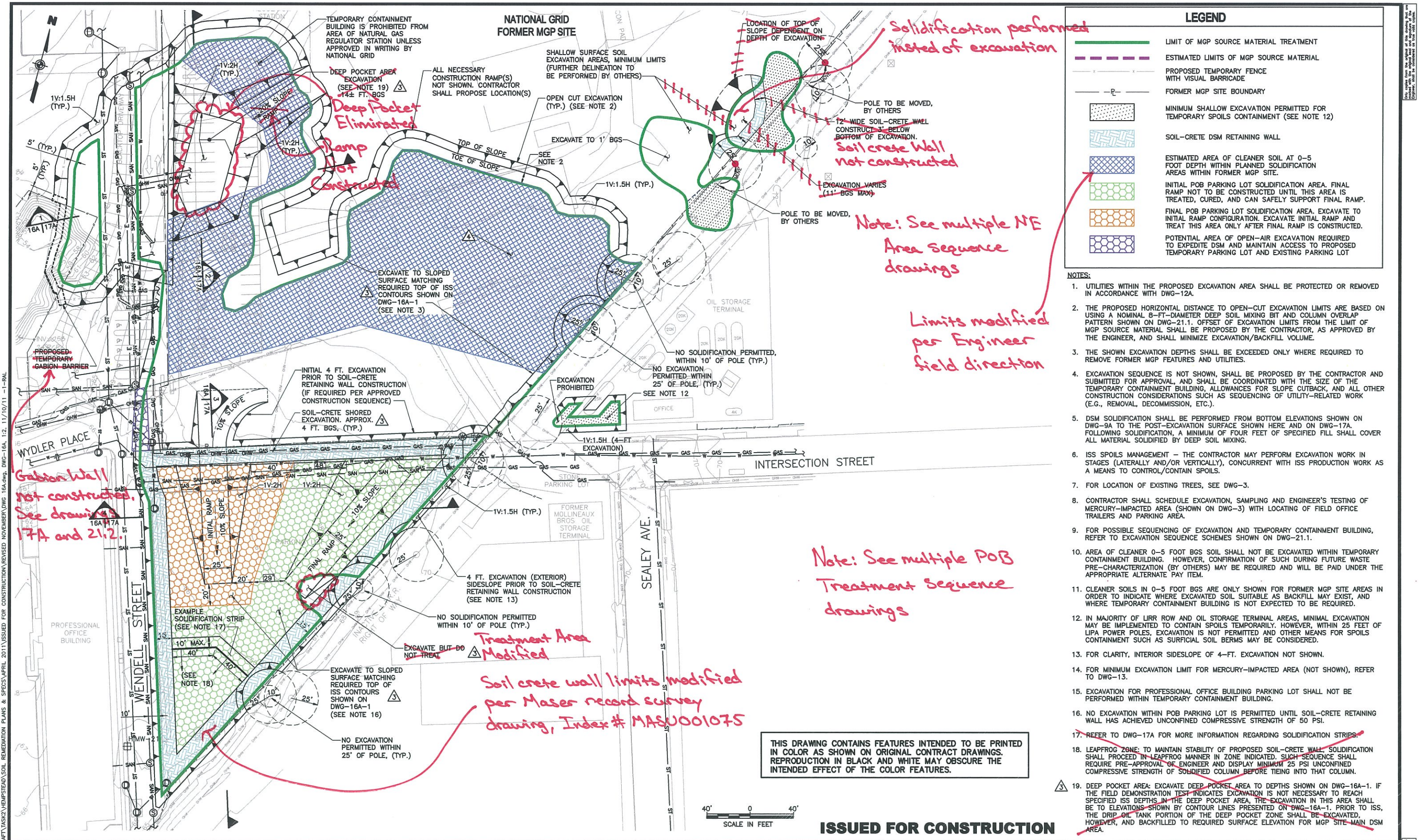
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THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

TRAFFIC PLAN FOR CONSTRUCTION	
Scale: AS SHOWN	Date: APRIL 2011
DWG-15A	



LEGEND

- LIMIT OF MGP SOURCE MATERIAL TREATMENT
- ESTIMATED LIMITS OF MGP SOURCE MATERIAL
- PROPOSED TEMPORARY FENCE WITH VISUAL BARRICADE
- FORMER MGP SITE BOUNDARY
- MINIMUM SHALLOW EXCAVATION PERMITTED FOR TEMPORARY SPOILS CONTAINMENT (SEE NOTE 12)
- SOIL-CRETE DSM RETAINING WALL
- ESTIMATED AREA OF CLEANER SOIL AT 0-5 FOOT DEPTH WITHIN PLANNED SOLIDIFICATION AREAS WITHIN FORMER MGP SITE.
- INITIAL POB PARKING LOT SOLIDIFICATION AREA. FINAL RAMP NOT TO BE CONSTRUCTED UNTIL THIS AREA IS TREATED, CURED, AND CAN SAFELY SUPPORT FINAL RAMP.
- FINAL POB PARKING LOT SOLIDIFICATION AREA. EXCAVATE TO INITIAL RAMP CONFIGURATION. EXCAVATE INITIAL RAMP AND TREAT THIS AREA ONLY AFTER FINAL RAMP IS CONSTRUCTED.
- POTENTIAL AREA OF OPEN-AIR EXCAVATION REQUIRED TO EXPEDITE DSM AND MAINTAIN ACCESS TO PROPOSED TEMPORARY PARKING LOT AND EXISTING PARKING LOT

- ### NOTES:
1. UTILITIES WITHIN THE PROPOSED EXCAVATION AREA SHALL BE PROTECTED OR REMOVED IN ACCORDANCE WITH DWG-12A.
 2. THE PROPOSED HORIZONTAL DISTANCE TO OPEN-CUT EXCAVATION LIMITS ARE BASED ON USING A NOMINAL 8-FT-DIAMETER DEEP SOIL MIXING BIT AND COLUMN OVERLAP PATTERN SHOWN ON DWG-21.1. OFFSET OF EXCAVATION LIMITS FROM THE LIMIT OF MGP SOURCE MATERIAL SHALL BE PROPOSED BY THE CONTRACTOR, AS APPROVED BY THE ENGINEER, AND SHALL MINIMIZE EXCAVATION/BACKFILL VOLUME.
 3. THE SHOWN EXCAVATION DEPTHS SHALL BE EXCEEDED ONLY WHERE REQUIRED TO REMOVE FORMER MGP FEATURES AND UTILITIES.
 4. EXCAVATION SEQUENCE IS NOT SHOWN, SHALL BE PROPOSED BY THE CONTRACTOR AND SUBMITTED FOR APPROVAL, AND SHALL BE COORDINATED WITH THE SIZE OF THE TEMPORARY CONTAINMENT BUILDING, ALLOWANCES FOR SLOPE CUTBACK, AND ALL OTHER CONSTRUCTION CONSIDERATIONS SUCH AS SEQUENCING OF UTILITY-RELATED WORK (E.G., REMOVAL, DECOMMISSION, ETC.).
 5. DSM SOLIDIFICATION SHALL BE PERFORMED FROM BOTTOM ELEVATIONS SHOWN ON DWG-9A TO THE POST-EXCAVATION SURFACE SHOWN HERE AND ON DWG-17A. FOLLOWING SOLIDIFICATION, A MINIMUM OF FOUR FEET OF SPECIFIED FILL SHALL COVER ALL MATERIAL SOLIDIFIED BY DEEP SOIL MIXING.
 6. ISS SPOILS MANAGEMENT - THE CONTRACTOR MAY PERFORM EXCAVATION WORK IN STAGES (LATERALLY AND/OR VERTICALLY), CONCURRENT WITH ISS PRODUCTION WORK AS A MEANS TO CONTROL/CONTAIN SPOILS.
 7. FOR LOCATION OF EXISTING TREES, SEE DWG-3.
 8. CONTRACTOR SHALL SCHEDULE EXCAVATION, SAMPLING AND ENGINEER'S TESTING OF MERCURY-IMPACTED AREA (SHOWN ON DWG-3) WITH LOCATING OF FIELD OFFICE TRAILERS AND PARKING AREA.
 9. FOR POSSIBLE SEQUENCING OF EXCAVATION AND TEMPORARY CONTAINMENT BUILDING, REFER TO EXCAVATION SEQUENCE SCHEMES SHOWN ON DWG-21.1.
 10. AREA OF CLEANER 0-5 FOOT BGS SOIL SHALL NOT BE EXCAVATED WITHIN TEMPORARY CONTAINMENT BUILDING. HOWEVER, CONFIRMATION OF SUCH DURING FUTURE WASTE PRE-CHARACTERIZATION (BY OTHERS) MAY BE REQUIRED AND WILL BE PAID UNDER THE APPROPRIATE ALTERNATE PAY ITEM.
 11. CLEANER SOILS IN 0-5 FOOT BGS ARE ONLY SHOWN FOR FORMER MGP SITE AREAS IN ORDER TO INDICATE WHERE EXCAVATED SOIL SUITABLE AS BACKFILL MAY EXIST, AND WHERE TEMPORARY CONTAINMENT BUILDING IS NOT EXPECTED TO BE REQUIRED.
 12. IN MAJORITY OF LIRR ROW AND OIL STORAGE TERMINAL AREAS, MINIMAL EXCAVATION MAY BE IMPLEMENTED TO CONTAIN SPOILS TEMPORARILY. HOWEVER, WITHIN 25 FEET OF LIPA POWER POLES, EXCAVATION IS NOT PERMITTED AND OTHER MEANS FOR SPOILS CONTAINMENT SUCH AS SURFICIAL SOIL BERMS MAY BE CONSIDERED.
 13. FOR CLARITY, INTERIOR SIDESLOPE OF 4-FT. EXCAVATION NOT SHOWN.
 14. FOR MINIMUM EXCAVATION LIMIT FOR MERCURY-IMPACTED AREA (NOT SHOWN), REFER TO DWG-13.
 15. EXCAVATION FOR PROFESSIONAL OFFICE BUILDING PARKING LOT SHALL NOT BE PERFORMED WITHIN TEMPORARY CONTAINMENT BUILDING.
 16. NO EXCAVATION WITHIN POB PARKING LOT IS PERMITTED UNTIL SOIL-CRETE RETAINING WALL HAS ACHIEVED UNCONFINED COMPRESSIVE STRENGTH OF 50 PSI.
 17. REFER TO DWG-17A FOR MORE INFORMATION REGARDING SOLIDIFICATION STRIPS.
 18. LEAPFROG ZONE: TO MAINTAIN STABILITY OF PROPOSED SOIL-CRETE WALL, SOLIDIFICATION SHALL PROCEED IN LEAPFROG MANNER IN ZONE INDICATED. SUCH SEQUENCE SHALL REQUIRE PRE-APPROVAL OF ENGINEER AND DISPLAY MINIMUM 25 PSI UNCONFINED COMPRESSIVE STRENGTH OF SOLIDIFIED COLUMN BEFORE TIEING INTO THAT COLUMN.
 19. DEEP POCKET AREA: EXCAVATE DEEP POCKET AREA TO DEPTHS SHOWN ON DWG-16A-1. IF THE FIELD DEMONSTRATION TEST INDICATES EXCAVATION IS NOT NECESSARY TO REACH SPECIFIED ISS DEPTHS IN THE DEEP POCKET AREA, THE EXCAVATION IN THIS AREA SHALL BE TO ELEVATIONS SHOWN BY CONTOUR LINES PRESENTED ON DWG-16A-1. PRIOR TO ISS, THE DRIP OIL TANK PORTION OF THE DEEP POCKET ZONE SHALL BE EXCAVATED, HOWEVER, AND BACKFILLED TO REQUIRED SURFACE ELEVATION FOR MGP SITE-MAIN DSM AREA.

THIS DRAWING CONTAINS FEATURES INTENDED TO BE PRINTED IN COLOR AS SHOWN ON ORIGINAL CONTRACT DRAWINGS. REPRODUCTION IN BLACK AND WHITE MAY OBSCURE THE INTENDED EFFECT OF THE COLOR FEATURES.



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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
4	RJP	JAS	11/2011	REVISED LIMITS OF CLEANER SOIL
3	RJP	JAS	11/2011	REVISED FOR REQUIRED TOP OF ISS CONTOURING
2	RJP	JAS	8/2011	NOTE REVISED FOR DRAWING REFERENCE
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

DESIGNED BY: **DNM**
 DRAWN BY: **RAL**
 CHECKED BY: **EWK**
 PROJ. MGR. **JAS**

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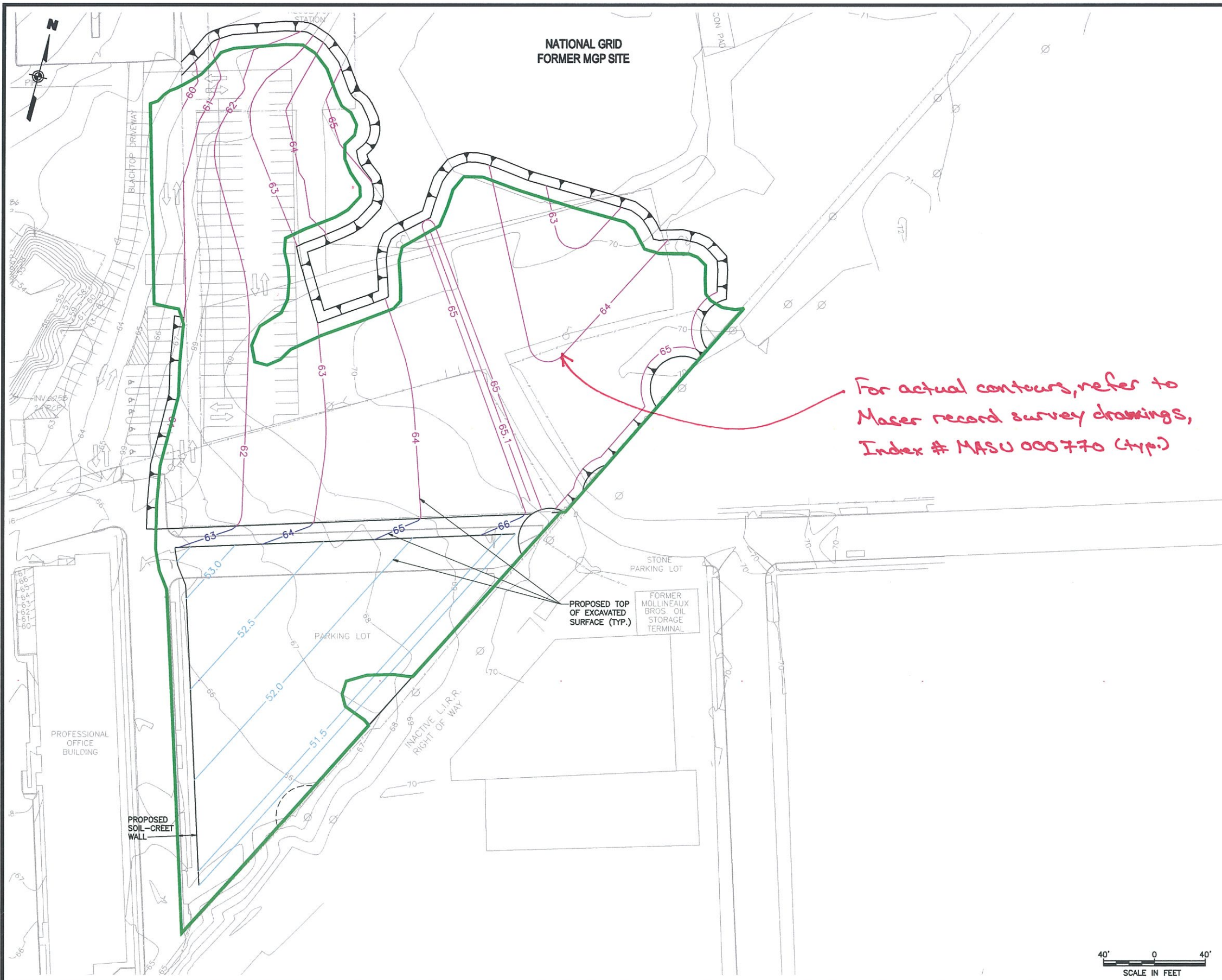
THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

EXCAVATION PLAN

Scale: AS SHOWN Date: APRIL 2011 DWG-16A

11/17/2011 11:56:00 AM CAD DRAFT TASKS (HEMPSTEAD) SOIL REMEDIATION PLANS & SPECS APRIL 2011 ISSUED FOR CONSTRUCTION REVISED NOVEMBER DWG-16A.dwg, DWG-16A, 12, 11/10/11 -1-1-BAL

11/17/2011 11:50:05 AM D:\PROJECTS\HEMPSTEAD\SOIL REMEDIATION\PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\REVISED NOVEMBER\DWG 16A-1.dwg, PAPER, 1:2, 11/9/11 -1-RAL



NATIONAL GRID
FORMER MGP SITE

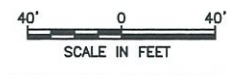
- NOTES:**
1. THIS DRAWING IS PRESENTED ONLY AS A SUPPLEMENT TO DWG-16A. REFER TO THAT DRAWING FOR ANY OTHER APPLICABLE INFORMATION SUCH AS LEGEND, NOTES, AND OTHER REQUIRED EXCAVATION AREAS.
 2. EXCAVATION DEPTH FOR SOIL-CRETE WALL ALONG INTERSECTION STREET VARIES AND IS NOMINALLY 3.5 FEET.

For actual contours, refer to Maser record survey drawings, Index # MASU 000770 (typ.)

LEGEND

- 52 — SHOWN TOP OF EXCAVATED SURFACE REPRESENTS TOP OF ISS. DO NOT ADD ONE (1) FOOT OF PROTECTIVE SOIL COVER.
- 66 — TOP OF EXCAVATION SURFACE. PLACE ONE (1) FOOT OF CLEAN PROTECTIVE SOIL COVER ABOVE EXCAVATION FOR ODOR CONTROL PRIOR TO ISS. TOP OF ISS ELEVATION SHALL BE TOP OF PROTECTIVE SOIL COVER.
- 64 — TOP OF SOIL-CRETE WALL (SEE NOTE 2)
- — LIMIT OF MGP SOURCE MATERIAL TREATMENT

THIS DRAWING CONTAINS FEATURES INTENDED TO BE PRINTED IN COLOR AS SHOWN ON ORIGINAL CONTRACT DRAWINGS. REPRODUCTION IN BLACK AND WHITE MAY OBSCURE THE INTENDED EFFECT OF THE COLOR FEATURES.



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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	11/2011	NEW DRAWING ISSUED FOR CONSTRUCTION
REVISIONS				

DESIGNED BY: JAS
 DRAWN BY: RAL
 CHECKED BY: RJP
 PROJ. MGR. JAS

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PROPOSED EXCAVATION
 CONTOURING

Scale: AS SHOWN Date: NOV. 2011 DWG-16A-1

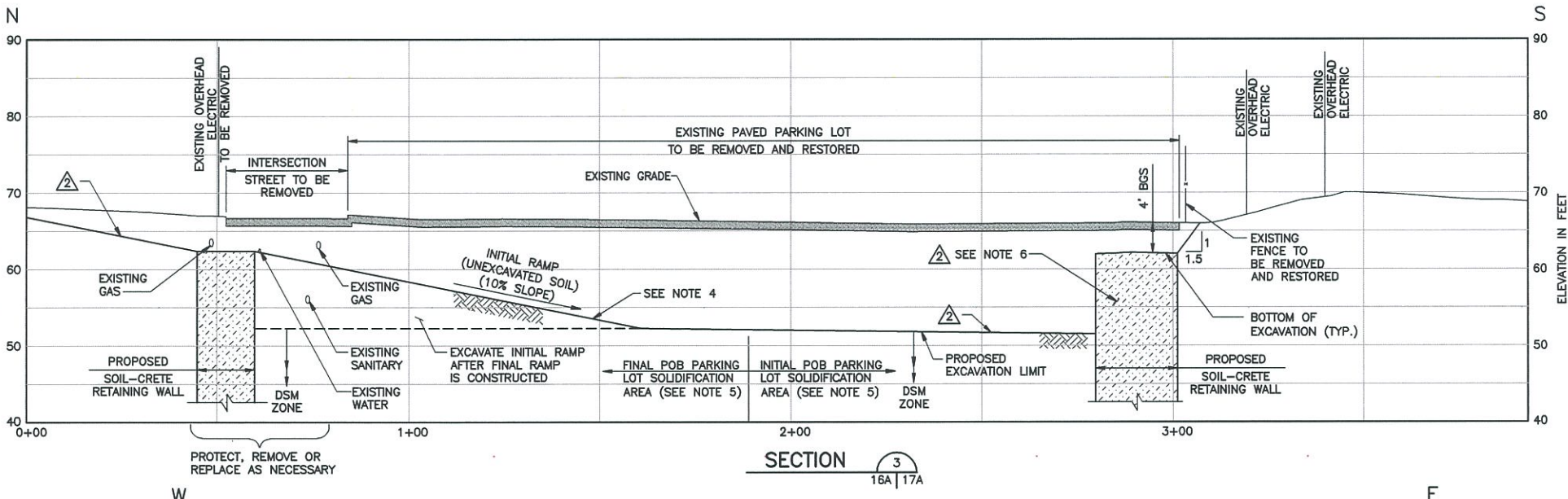
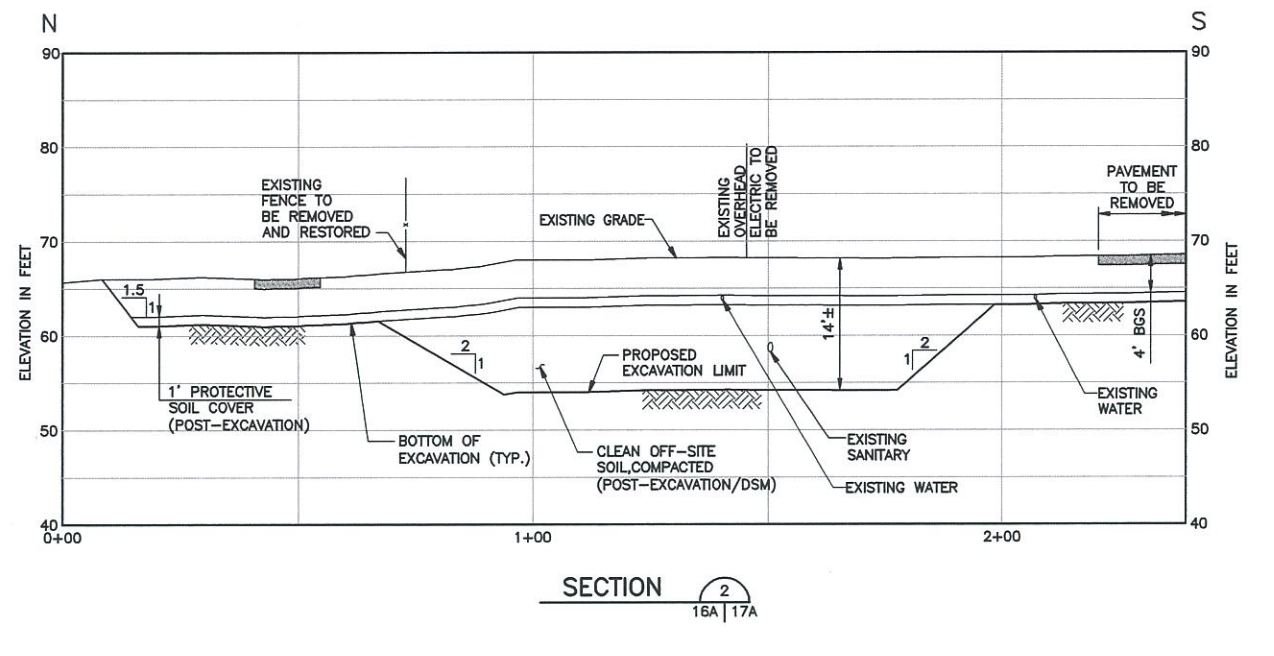
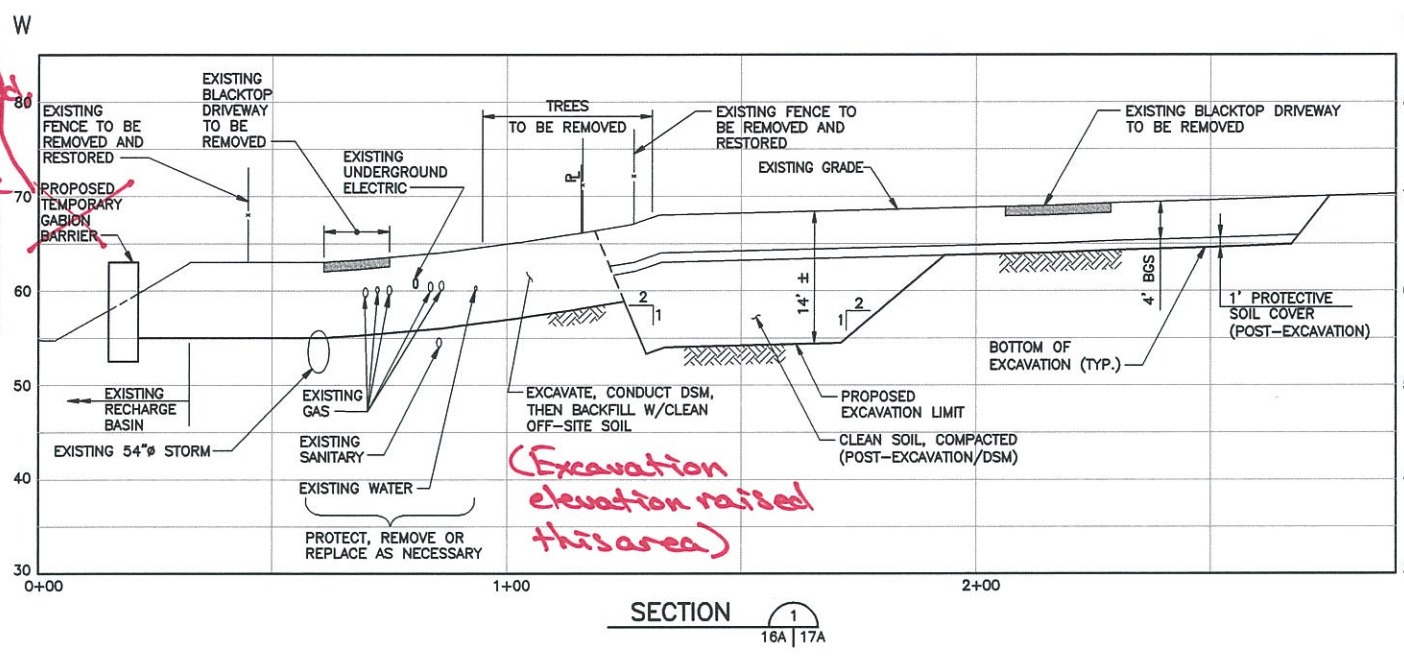
This drawing was prepared and issued by the undersigned Professional Engineer who is licensed in the State of New York.

Gabion Wall
not constructed
beam built
as alternate

(Excavation
elevation raised
this area)

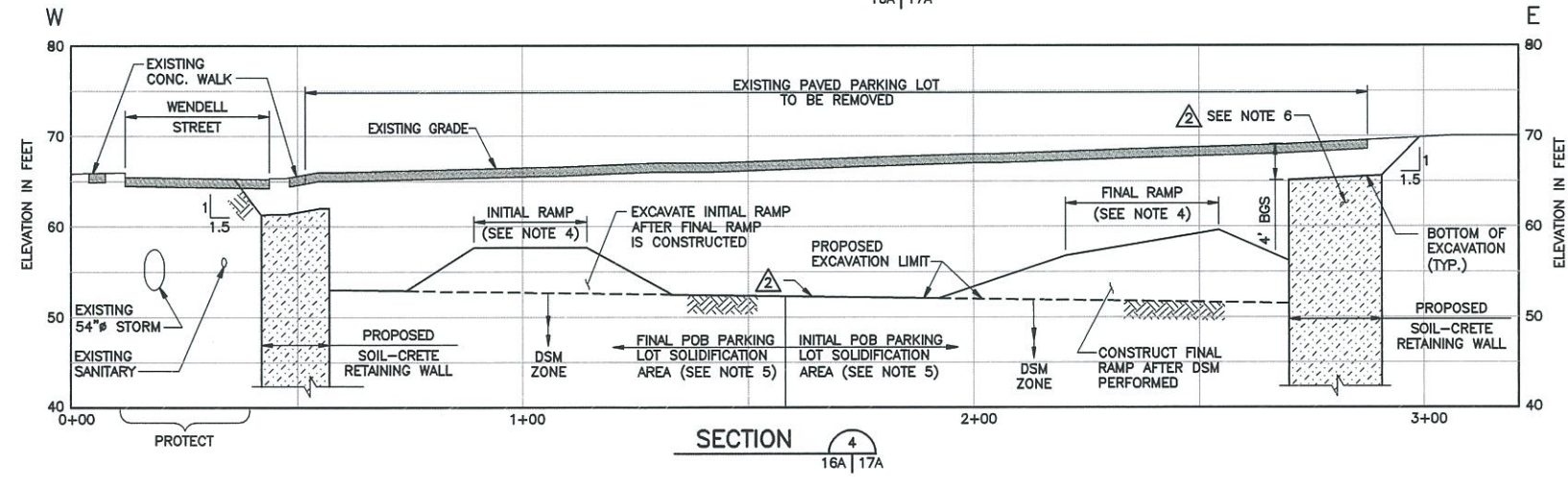
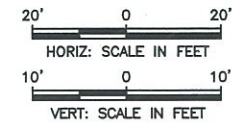
Vertical relief drains
installed instead of
weep holes.

ISSUED FOR CONSTRUCTION



IN ADDITION TO EXCAVATION WORK THIS DRAWING SHOWS OTHER REQUIRED WORK SUCH AS SOLIDIFICATION AND BACKFILL

- NOTES:
1. ANY PROPOSED VERTICAL SIDEWALLS SHALL BE SHORED WITH SOIL-CEMENT. DIMENSIONS FOR SOIL-CEMENT SHORING SHALL BE PROPOSED FOR APPROVAL.
 2. SEE DWG-12A FOR UTILITY PROTECTION AND DECOMMISSIONING PLAN.
 3. SHOWN UTILITY LOCATIONS AND ELEVATIONS SHALL BE CONSIDERED AS APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS.
 4. INITIAL RAMP (AND FINAL RAMP) SHALL BE SURFACE-TOPPED WITH 12 INCHES OF COMPACTED STONE MEETING NYS DOTSS, TABLE 703-4, SIZE 3.
 5. SOLIDIFICATION STRIPS: SOLIDIFICATION IN POB PARKING LOT AREA SHALL TYPICALLY PROCEED IN MAXIMUM 10-FOOT WIDE STRIPS TO PRESERVE STABILITY OF PROPOSED SOIL-CRETE WALL AND PROPOSED RAMP. SOLIDIFIED SOIL FOR EACH STRIP SHALL ACHIEVE MINIMUM UNCONFINED COMPRESSIVE STRENGTH OF 25 PSI BEFORE ADJACENT SOLIDIFICATION STRIP MAY COMMENCE. REFER TO DWG-16A FOR SPECIAL REQUIREMENTS IN "LEAF FROG ZONE".
 6. PROPOSED WEEP HOLES NOT SHOWN. SEE DWG-8A FOR PROPOSED WEEP HOLE LOCATIONS.



4:\11175065\0000\CAO\DRAWING\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\REVISED NOVEMBER.DWG 17A.dwg 11/10/11 - 4 RAL

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	RJP	JAS	11/2011	REVISED FOR REQUIRED TOP OF ISS CONTOURING
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

DESIGNED BY: **DNM**
 DRAWN BY: **RAL**
 CHECKED BY: **EWK**
 PROJ. MGR. **JAS**

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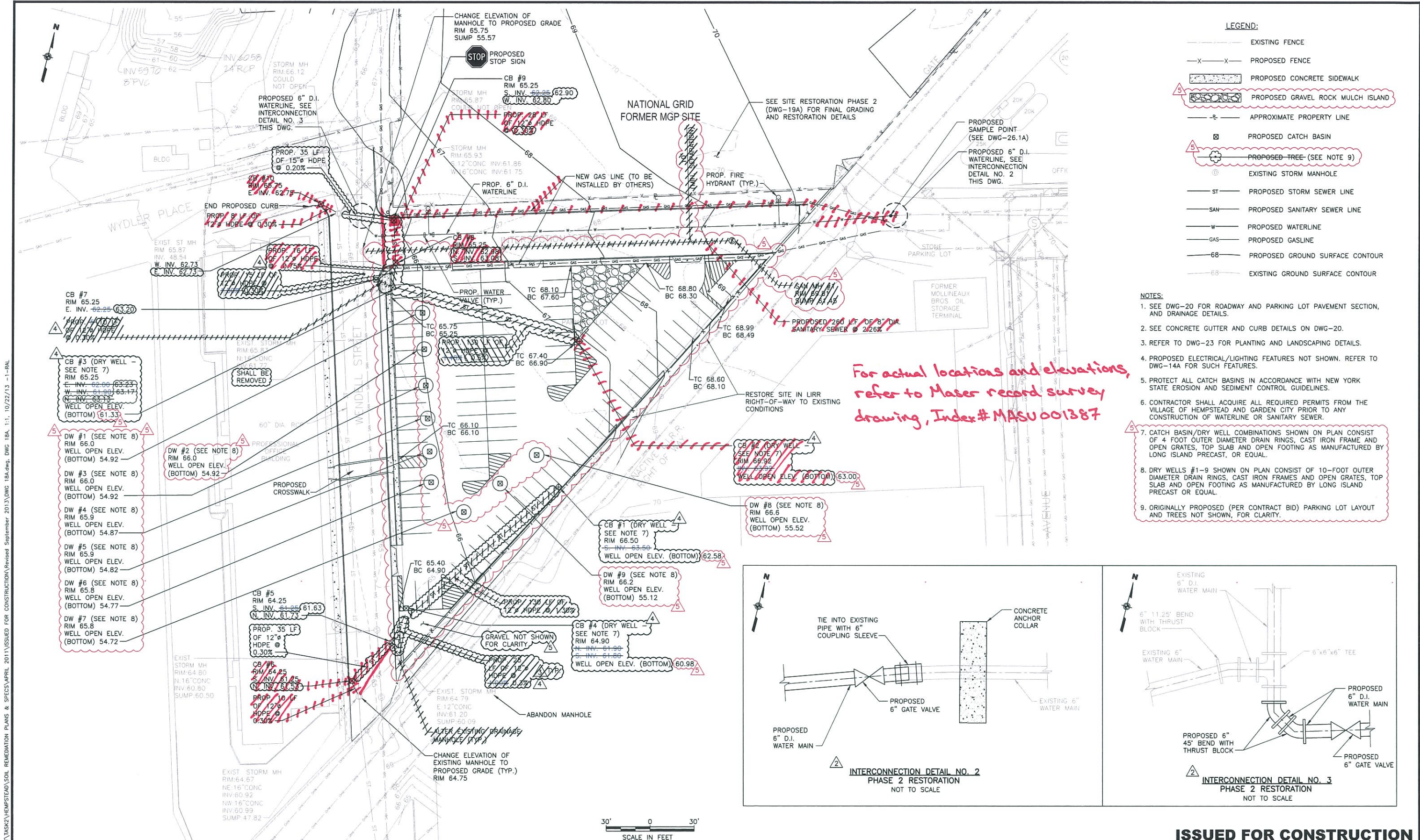
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THE HEMPSTEAD
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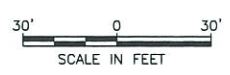
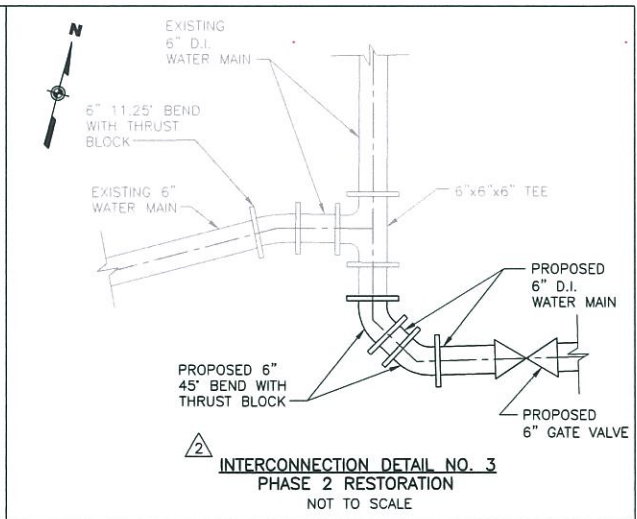
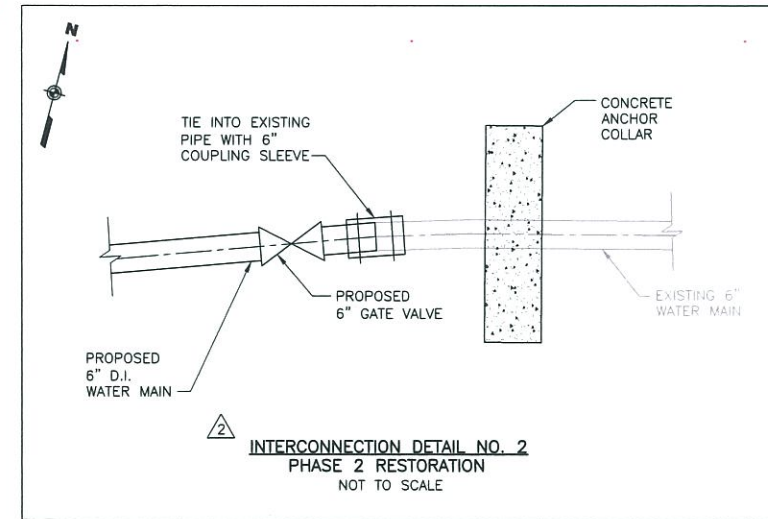
EXCAVATION CROSS SECTIONS
 Scale: AS SHOWN Date: APRIL 2011 DWG--17A



- LEGEND:**
- EXISTING FENCE
 - X-X- PROPOSED FENCE
 - [Hatched Box] PROPOSED CONCRETE SIDEWALK
 - [Dotted Box] PROPOSED GRAVEL ROCK MULCH ISLAND
 - E- APPROXIMATE PROPERTY LINE
 - [Square with X] PROPOSED CATCH BASIN
 - [Circle with X] PROPOSED TREE (SEE NOTE 9)
 - [Circle with D] EXISTING STORM MANHOLE
 - ST--- PROPOSED STORM SEWER LINE
 - SAN--- PROPOSED SANITARY SEWER LINE
 - W--- PROPOSED WATERLINE
 - GAS--- PROPOSED GASLINE
 - 68--- PROPOSED GROUND SURFACE CONTOUR
 - 68--- EXISTING GROUND SURFACE CONTOUR

- NOTES:**
1. SEE DWG-20 FOR ROADWAY AND PARKING LOT PAVEMENT SECTION, AND DRAINAGE DETAILS.
 2. SEE CONCRETE GUTTER AND CURB DETAILS ON DWG-20.
 3. REFER TO DWG-23 FOR PLANTING AND LANDSCAPING DETAILS.
 4. PROPOSED ELECTRICAL/LIGHTING FEATURES NOT SHOWN. REFER TO DWG-14A FOR SUCH FEATURES.
 5. PROTECT ALL CATCH BASINS IN ACCORDANCE WITH NEW YORK STATE EROSION AND SEDIMENT CONTROL GUIDELINES.
 6. CONTRACTOR SHALL ACQUIRE ALL REQUIRED PERMITS FROM THE VILLAGE OF HEMPSTEAD AND GARDEN CITY PRIOR TO ANY CONSTRUCTION OF WATERLINE OR SANITARY SEWER.
 7. CATCH BASIN/DRY WELL COMBINATIONS SHOWN ON PLAN CONSIST OF 4 FOOT OUTER DIAMETER DRAIN RINGS, CAST IRON FRAME AND OPEN GRATES, TOP SLAB AND OPEN FOOTING AS MANUFACTURED BY LONG ISLAND PRECAST, OR EQUAL.
 8. DRY WELLS #1-9 SHOWN ON PLAN CONSIST OF 10-FOOT OUTER DIAMETER DRAIN RINGS, CAST IRON FRAMES AND OPEN GRATES, TOP SLAB AND OPEN FOOTING AS MANUFACTURED BY LONG ISLAND PRECAST OR EQUAL.
 9. ORIGINALLY PROPOSED (PER CONTRACT BID) PARKING LOT LAYOUT AND TREES NOT SHOWN, FOR CLARITY.

For actual locations and elevations, refer to Maser record survey drawing, Index# MASU001387



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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	5/2011	ISSUED FOR CONSTRUCTION
2	RJP	JAS	8/2011	DETAIL TITLE REVISION
3	JB	RAL	5/2013	REVISED PROPOSED STORM SEWER
4	JB	RMD	9/2013	REVISED PROPOSED STORM SEWER
5	JB	RAL	10/2013	REVISED PROPOSED STORM SEWER, POB LOT DRAINAGE, SANITARY SEWER

DESIGNED BY: **EWK**
 DRAWN BY: **RAL**
 CHECKED BY: **DNM**
 PROJ. MGR. **JAS**

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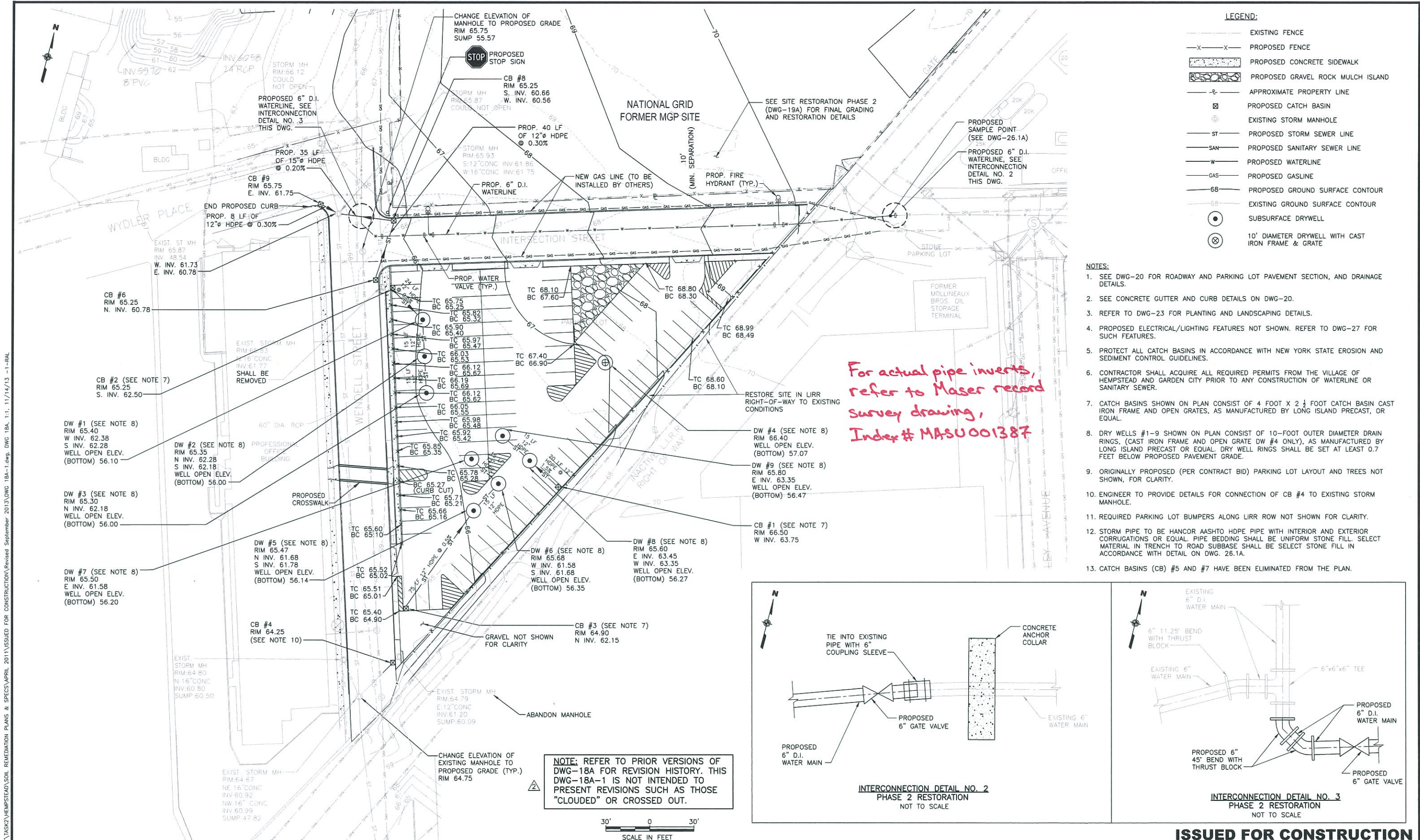
THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

SITE RESTORATION PHASE 1

Scale: AS SHOWN Date: APRIL 2011 **DWG-18A**

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	JIB	RAL	10/2013	THIS DRAWING IS PRESENTED AS A REVISION TO DWG. 18A FOR CLARITY.
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

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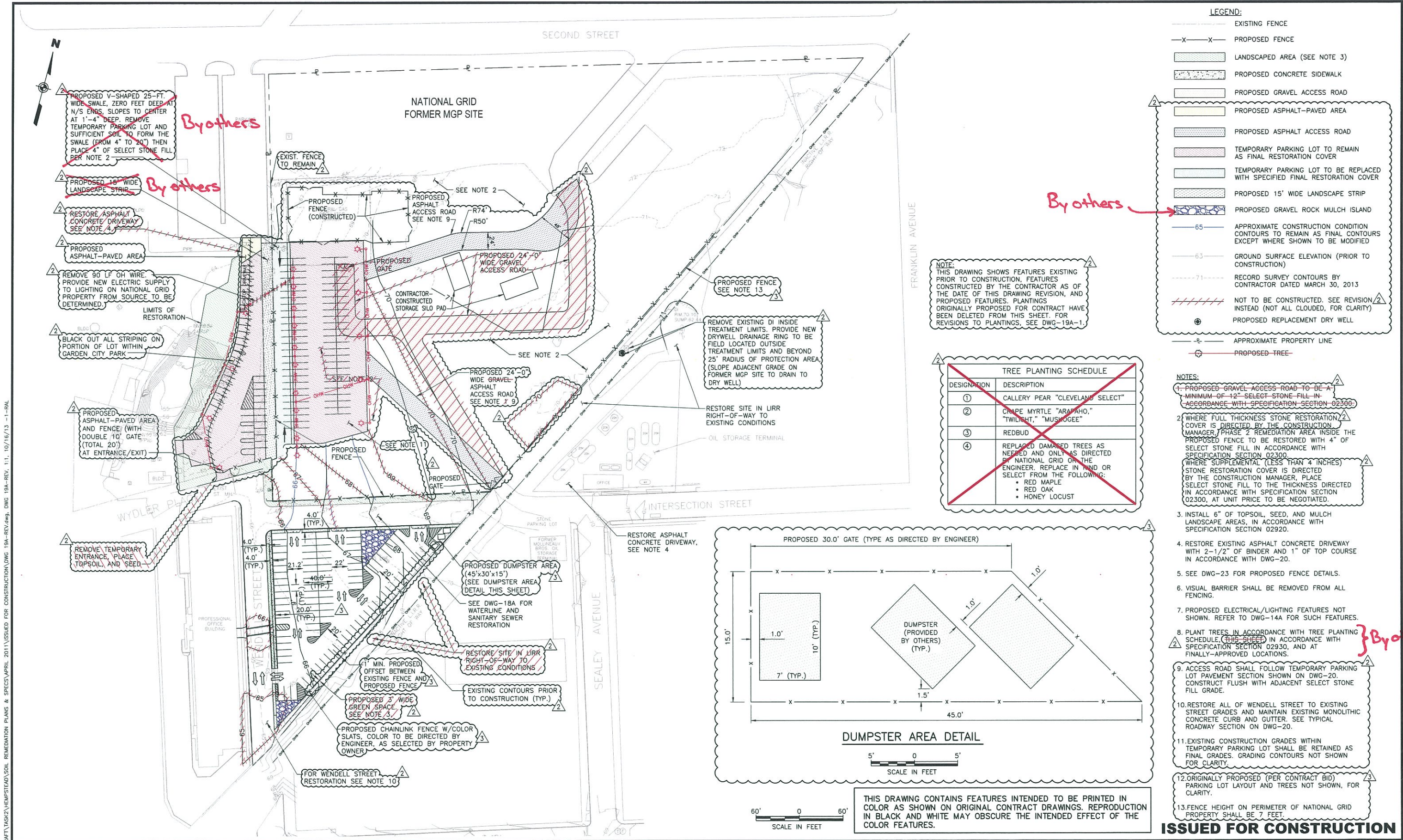


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THE HEMPSTEAD
 INTERSECTION STREET
 FORMER MANUFACTURED GAS
 PLANT SITE

SITE RESTORATION
 PHASE 1
 Scale: AS SHOWN Date: APRIL 2011 **DWG-18A-1**

ISSUED FOR CONSTRUCTION



By others

By others

By others

By others

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
3	RJP	JAS	10/2013	VARIOUS REVISIONS TO SITE RESTORATION PLAN AND POB PARKING LOT
2	RJP	JAS	9/2013	VARIOUS REVISIONS TO RESTORATION COVERS; RELOCATION OF NE AREA DRYWELL.
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

DESIGNED BY: **EWK**

DRAWN BY: **RAL**

CHECKED BY: **JAS**

PROJ. MGR. **JAS**

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THE HEMPSTEAD
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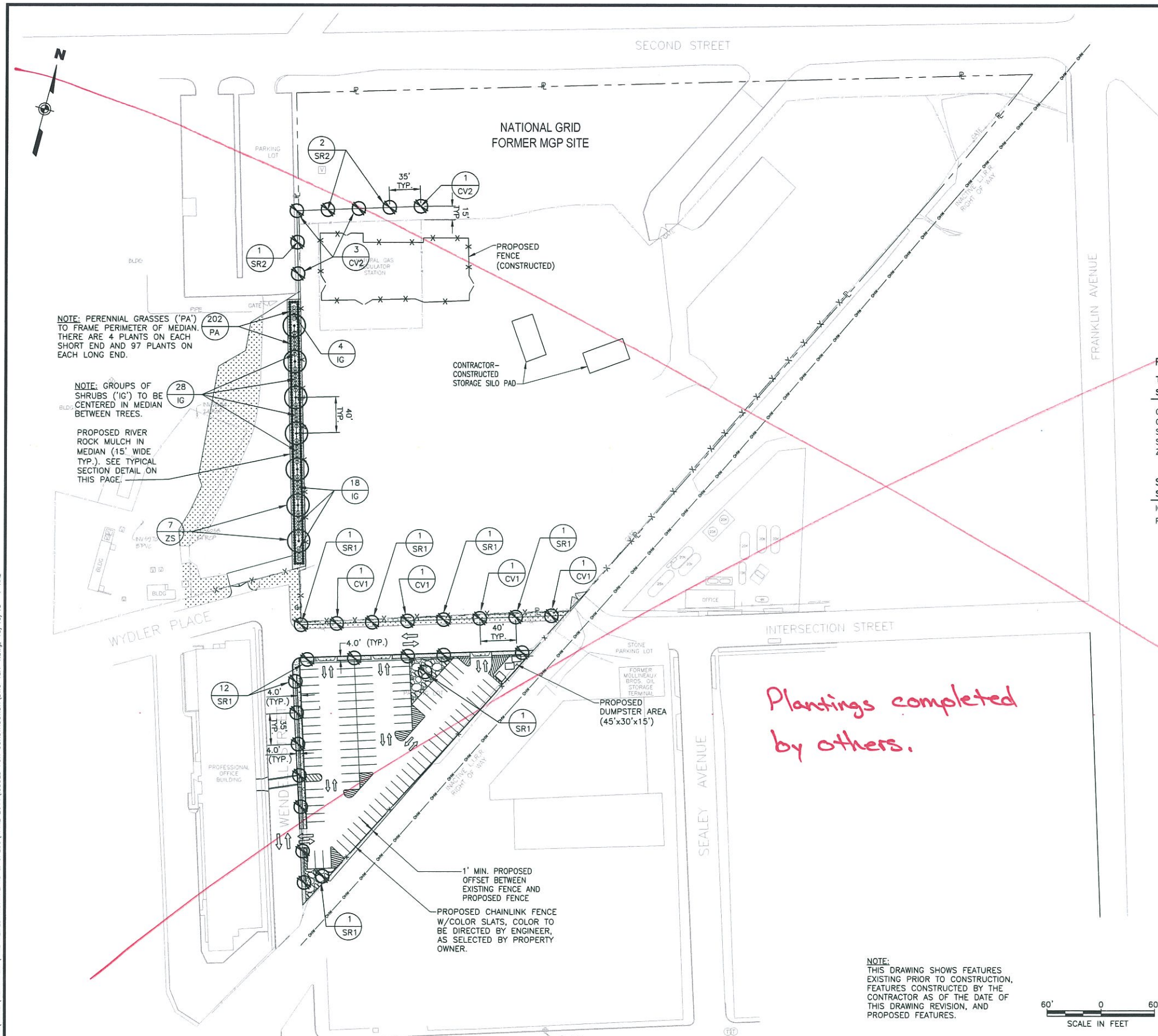
Scale: AS SHOWN Date: APRIL 2011

SITE RESTORATION
PHASE 2

DWG-19A

ISSUED FOR CONSTRUCTION

J:\1175065\00000\CAD\DRAWING\AS2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 19A-1.dwg, 10/15/13 -1-RAL



LEGEND:

- — — — — EXISTING FENCE
- X-X- PROPOSED FENCE
- PROPOSED LANDSCAPED AREA - LAWN MIXTURE A (SEE NOTE 3)
- ▨▨▨▨▨ PROPOSED LANDSCAPED AREA - LAWN MIXTURE B (SEE NOTE 3)
- ▨▨▨▨▨ PROPOSED RIVER ROCK MULCH BED
- ▨▨▨▨▨ PROPOSED CONCRETE SIDEWALK
- ▨▨▨▨▨ PROPOSED GRAVEL ROCK MULCH ISLAND (SEE NOTE 5)
- - - - - APPROXIMATE PROPERTY LINE
- PROPOSED TREES
- PROPOSED SHRUBS

NOTES:

1. PLANT TREES AND SHRUBS IN ACCORDANCE WITH PLANTING SCHEDULE, SPECIFICATION SECTION 02930, AND AT OWNER-APPROVED LOCATIONS.
2. REPLACE DAMAGED TREES AS NEEDED AND ONLY AS DIRECTED BY NATIONAL GRID OR THE ENGINEER. REPLACE IN KIND OR SELECT FROM THE FOLLOWING:
 - ACER RUBRUM - RED MAPLE
 - QUERCUS RUBRA - RED OAK
 - GLEDITSIA TRIACANTHOS - HONEY LOCUST
3. INSTALL 6" OF TOPSOIL, SEED, AND MULCH LANDSCAPE AREAS, IN ACCORDANCE WITH SPECIFICATION SECTION 02920.
4. ORIGINALLY PROPOSED (PER CONTRACT BID) PARKING LOT LAYOUT AND TREES NOT SHOWN, FOR CLARITY.
5. FOR CONSTRUCTION OF GRAVEL ISLAND, REFER TO SPECIFICATION SECTION 02920.

NOTE: PERENNIAL GRASSES ('PA') TO FRAME PERIMETER OF MEDIAN. THERE ARE 4 PLANTS ON EACH SHORT END AND 97 PLANTS ON EACH LONG END.

NOTE: GROUPS OF SHRUBS ('IG') TO BE CENTERED IN MEDIAN BETWEEN TREES.

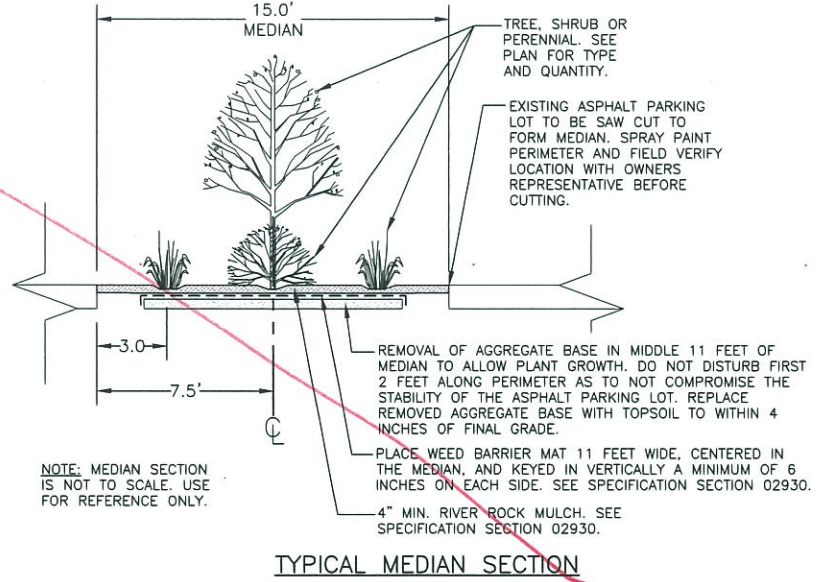
PROPOSED RIVER ROCK MULCH IN MEDIAN (15' WIDE TYP.). SEE TYPICAL SECTION DETAIL ON THIS PAGE.

PLANTING SCHEDULE

TREES					
SYM.	QTY.	BOTANICAL NAME	COMMON NAME	SIZE/HEIGHT	REMARKS
CV1	4	CRATAEGUS VIRIDIS 'WINTER KING'	WINTER KING HAWTHORN	2 1/2" CAL	TREE FORM
CV2	4	CRATAEGUS VIRIDIS 'WINTER KING'	WINTER KING HAWTHORN	3 1/2" CAL	TREE FORM
SR1	16	SYRINGA RETICULATA	JAPANESE TREE LILAC	2 1/2" CAL.	
SR2	3	SYRINGA RETICULATA	JAPANESE TREE LILAC	3 1/2" CAL.	
ZS	7	ZELKOVA SERRATA 'VILLAGE GREEN'	VILLAGE GREEN ZELKOVA	3 1/2" CAL.	LARGER CAL. SIZE

SHRUBS/PERENNIALS					
SYM.	QTY.	BOTANICAL NAME	COMMON NAME	SIZE/HEIGHT	REMARKS
IG	50	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY	NO. 3 CONT.	
PA	202	PENNISETUM ALOPECUROIDES 'LITTLE BUNNY'	LITTLE BUNNY DWARF FOUNTAIN GRASS	NO. 2 CONT. 3' O.C.	

Plantings completed by others.



NOTE: THIS DRAWING SHOWS FEATURES EXISTING PRIOR TO CONSTRUCTION, FEATURES CONSTRUCTED BY THE CONTRACTOR AS OF THE DATE OF THIS DRAWING REVISION, AND PROPOSED FEATURES.



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REVISIONS				

DESIGNED BY: CL
 DRAWN BY: RAL
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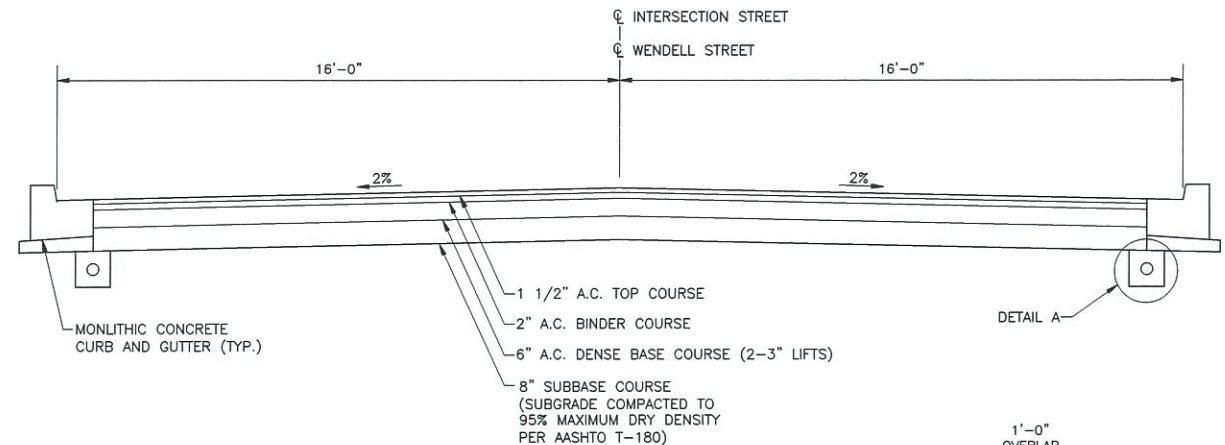
THE HEMPSTEAD
 INTERSECTION STREET
 FORMER MANUFACTURED GAS
 PLANT SITE

SITE RESTORATION
 PHASE 2
 PLANTINGS

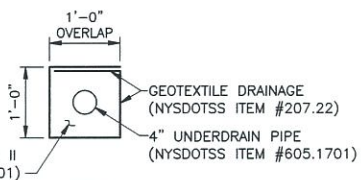
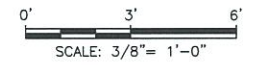
Scale: AS SHOWN Date: SEPT. 2011 DWG-19A-1

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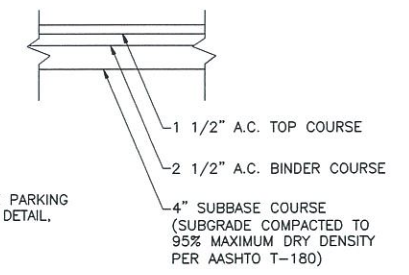
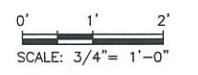
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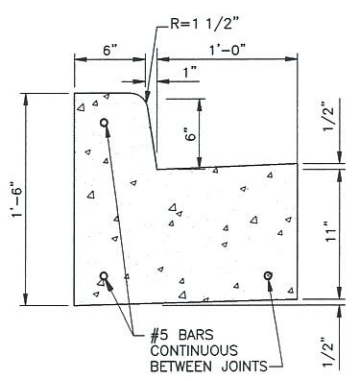
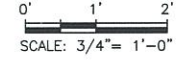
TYPICAL ROADWAY SECTION



DETAIL A
(CONNECT TO STORM DRAIN SYSTEM)

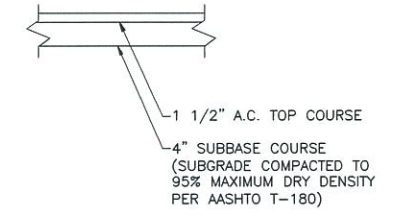


PARKING LOT PAVEMENT SECTION

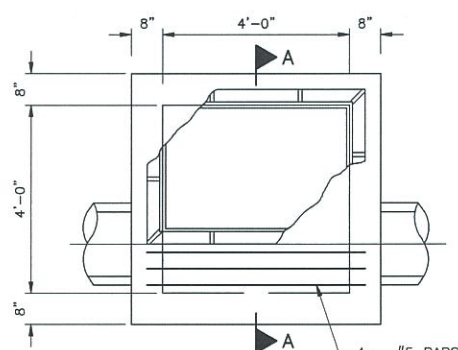
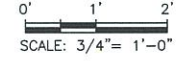


MONOLITHIC CONCRETE CURB AND GUTTER

NOT TO SCALE

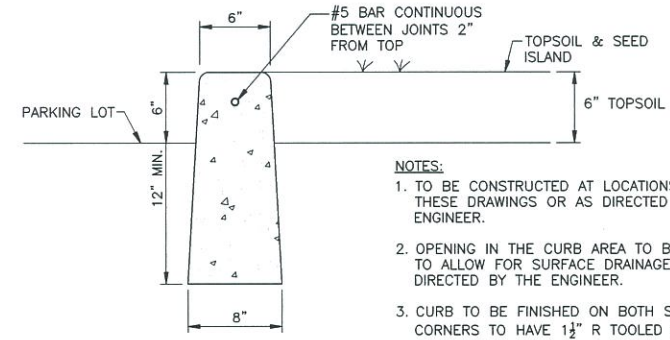


TEMPORARY PARKING LOT PAVEMENT SECTION



PLAN

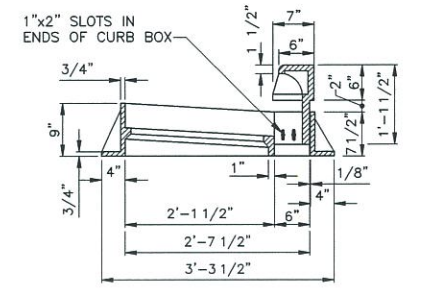
NOTE:
"D" = 2'-7 1/2" FOR C.I. BOX FRAME & GRATE
"D" = 2'-1 1/2" FOR C.I. FRAME



PARKING LOT CURB ISLAND

NOT TO SCALE

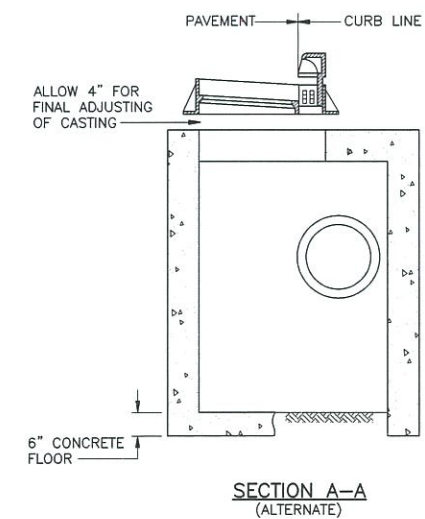
NOTES:
1. TO BE CONSTRUCTED AT LOCATIONS SHOWN ON THESE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
2. OPENING IN THE CURB AREA TO BE PROVIDED TO ALLOW FOR SURFACE DRAINAGE, OR AS DIRECTED BY THE ENGINEER.
3. CURB TO BE FINISHED ON BOTH SIDES. CORNERS TO HAVE 1/2" R TOOLED FINISH.



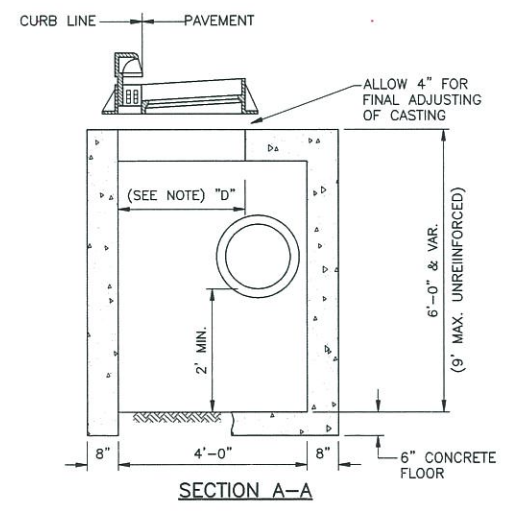
C.I. CURB BOX & FRAME TYPE A

NOT TO SCALE

NOTES:
1. MATERIAL IN FABRICATED STEEL GRATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A529, AISI GRADE 1020 STEEL, AISI GRADE 1025 STEEL, OR ASTM A529 GR. 50.
2. EACH GRATE SHALL BE SET EVENLY UPON THE BEARING LUGS AT ITS FRAME SO THAT NO VERTICAL MOVING OR ROCKING OCCURS UNDER TRAFFIC. GRATES AND/OR FRAMES WHICH CANNOT BE ADJUSTED TO MEET THIS REQUIREMENT WILL BE REJECTED.
3. ALL CASTINGS EXCEPT FABRICATED STEEL GRATE SHALL MEET THE REQUIREMENTS OF A.S.T.M. SPECIFICATIONS FOR STEEL CASTING SERIAL DESIGNATION A-27 GRADE 65-35 OR IRON CASTING SERIAL DESIGNATION A48-CLASS 20 OR MALLEABLE IRON CASTING SERIAL DESIGNATION A47-GRADE 32510 AT THE CONTRACTOR'S OPTION.
4. FOR CATCH BASINS THAT ARE NOT LOCATED AT A CURB LINE, DO NOT INSTALL CURB BOX.

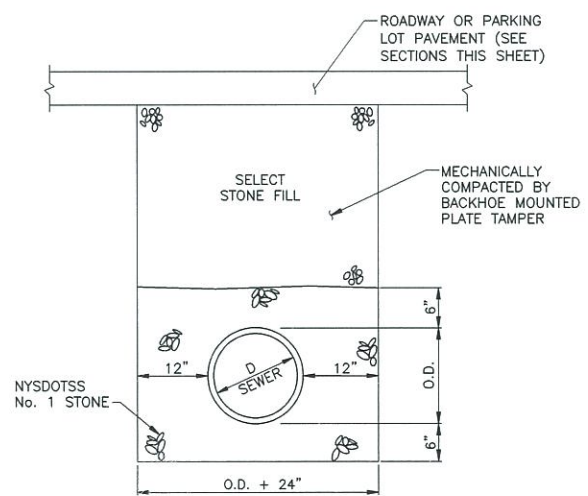


SECTION A-A (ALTERNATE)



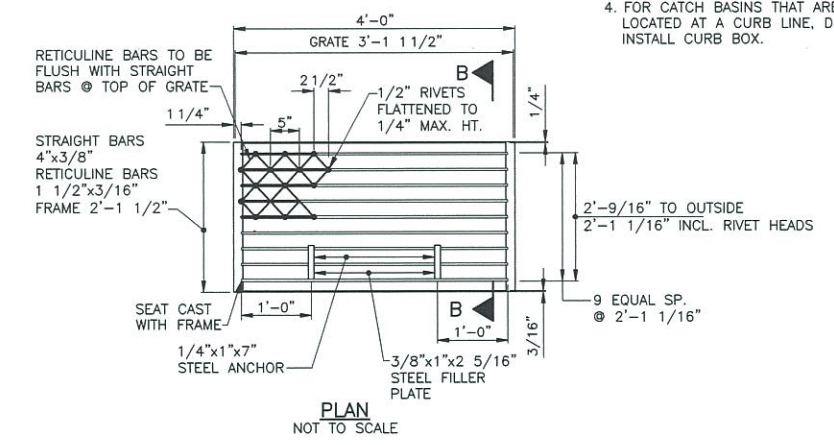
SECTION A-A

CATCH BASIN TYPE A
NOT TO SCALE



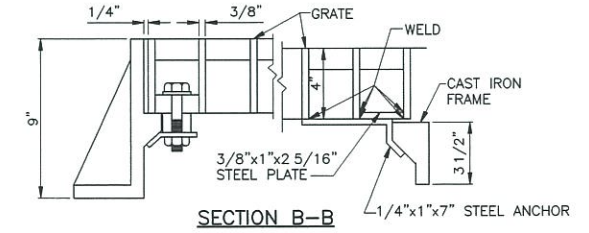
TYPICAL STORM SEWER TRENCH DETAIL

NOT TO SCALE



PLAN

NOT TO SCALE



SECTION B-B

FABRICATED STEEL GRATE TYPE A

NOT TO SCALE

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1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION
REVISIONS				

DESIGNED BY: **DNM**
DRAWN BY: **RAL**
CHECKED BY: **EWK**
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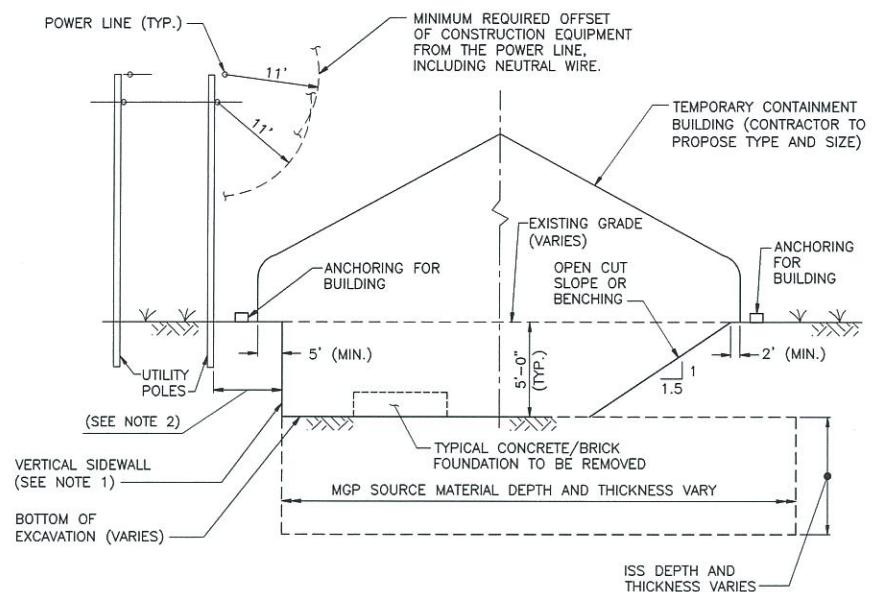
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THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

PAVING AND DRAINAGE DETAILS		
Scale: AS SHOWN	Date: APRIL 2011	DWG-20

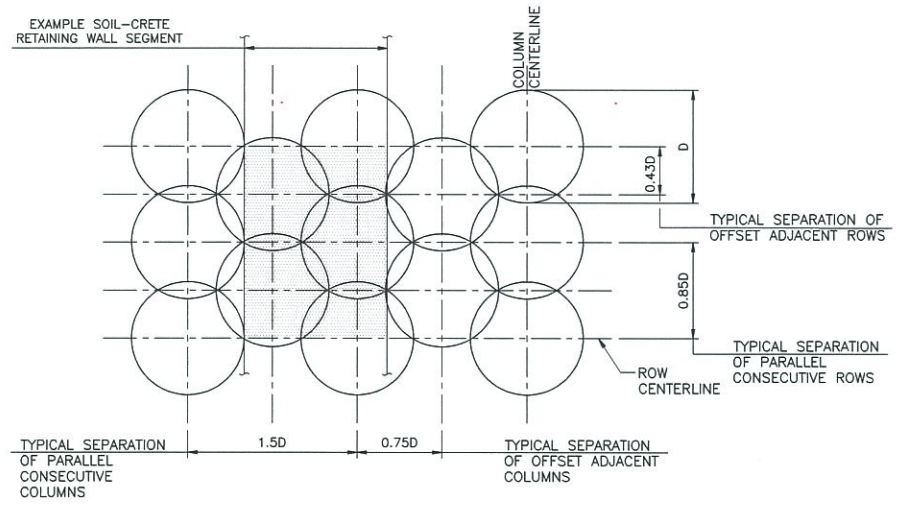
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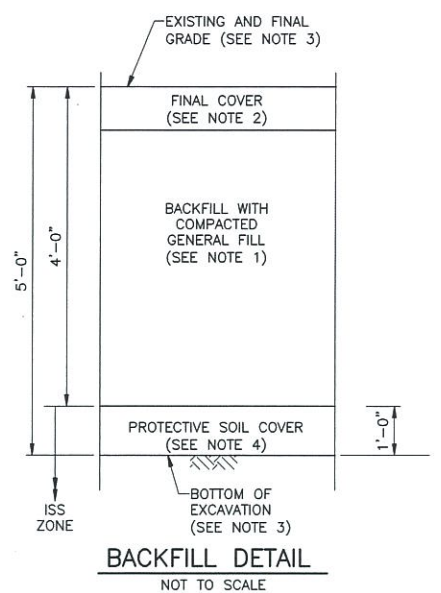


EXCAVATION AND CONTAINMENT DETAIL
NOT TO SCALE

- NOTES:**
1. ANY VERTICAL SIDEWALL SHALL CONSIST OF SOIL-CRETE RETAINING WALL.
 2. AT UTILITY POLES, TOP OF EXCAVATION CUT SHALL BE MINIMUM DISTANCE AWAY FROM POLE SHOWN ON EXCAVATION DETAIL AT UTILITY POLE (PLAN VIEW), THIS SHEET.

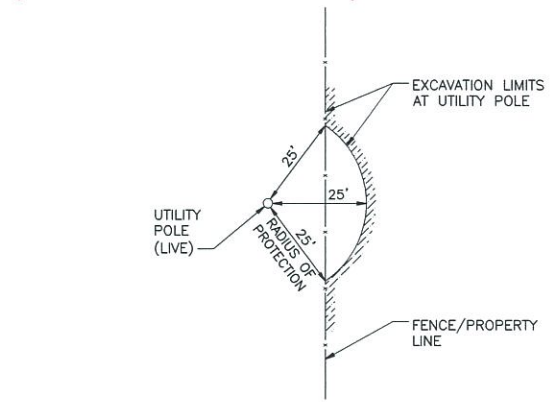


TYPICAL DSM SOLIDIFIED SOIL COLUMN TREATMENT PATTERN
NOT TO SCALE

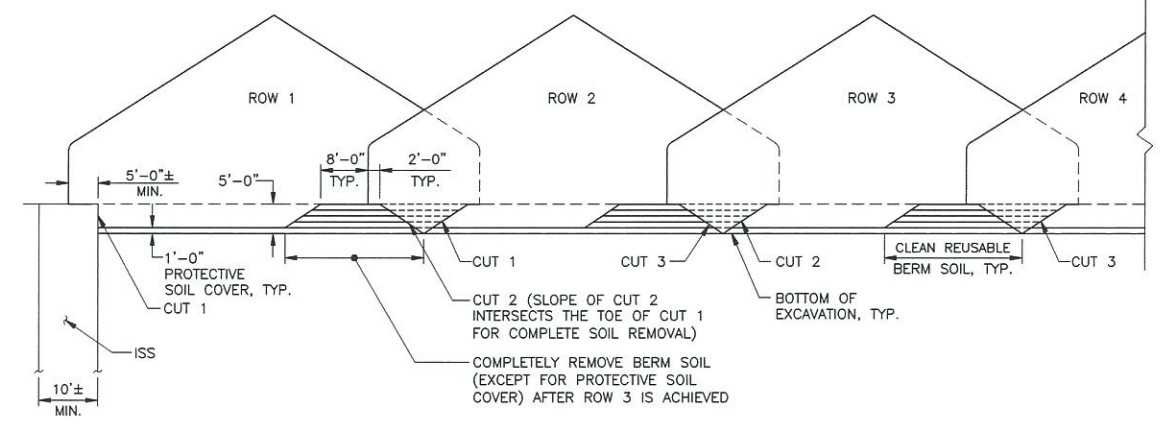


BACKFILL DETAIL
NOT TO SCALE

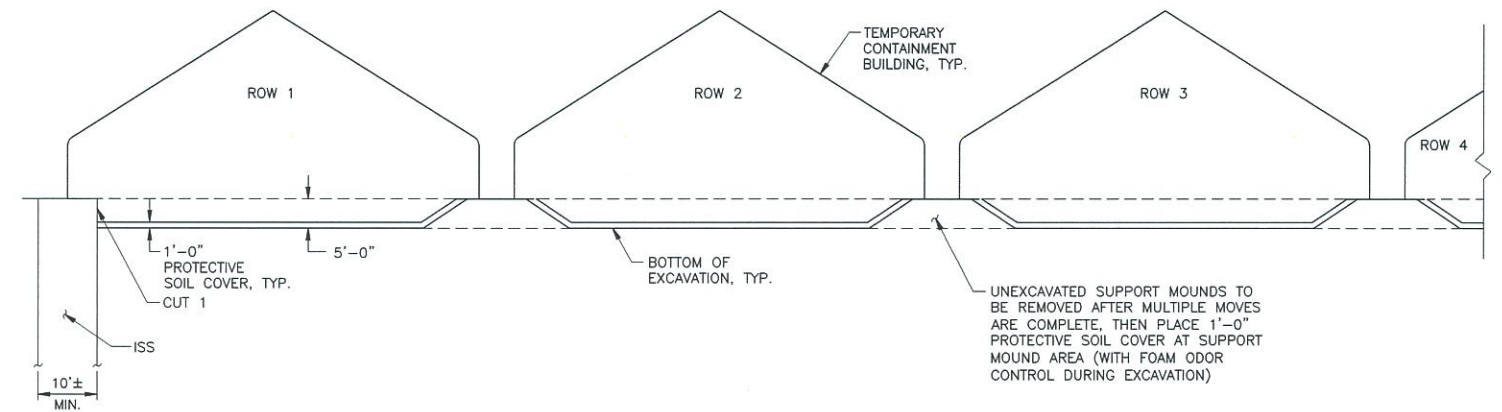
- NOTES:**
1. CLEAN ON-SITE EXCAVATED SOIL MAY BE USED AS BACKFILL BUT NO CLOSER THAN TWO (2) FEET FROM FINAL GRADE.
 2. SELECTION OF FINAL COVER MATERIAL SHALL BE AS SHOWN ON DWG-19A AND AT THE DISCRETION OF NATIONAL GRID.
 3. EXCAVATION SHALL EXTEND TO DEPTH GREATER THAN THAT SHOWN ONLY WHERE NECESSARY OR SHOWN, SUCH AS TO REMOVE FORMER MGP STRUCTURES AND UTILITIES, AND ONLY UPON APPROVAL OF THE ENGINEER AND/OR NATIONAL GRID. WHERE SUCH DEEPER EXCAVATIONS ARE APPROVED, THEY SHALL BE BACKFILLED IN 2-FOOT LIFTS (UP TO 4 FEET BELOW EXISTING GRADE) AND EACH LIFT COMPACTED USING EXCAVATOR BUCKET TO A STATE THAT IS SUITABLY STABLE TO SUPPORT ALL CONSTRUCTION EQUIPMENT THROUGHOUT CONSTRUCTION.
 4. PLACE PROTECTIVE SOIL COVER AFTER EXCAVATION BUT BEFORE SOLIDIFICATION WORK.



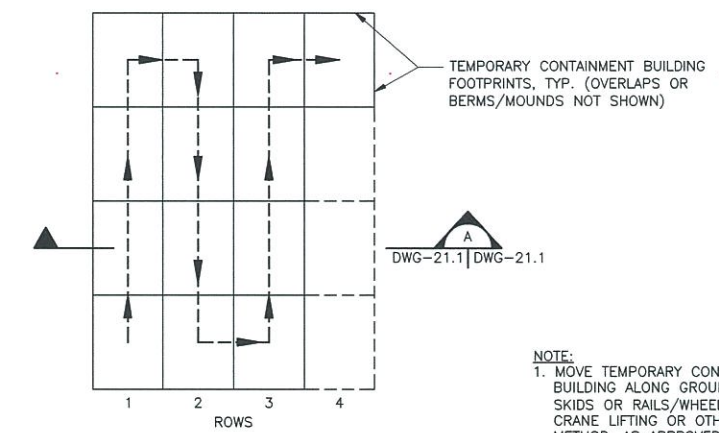
EXCAVATION DETAIL AT UTILITY POLE
NOT TO SCALE



BASE BID- REUSABLE SUPPORT BERMS WITH CONTIGUOUS SOIL REMOVAL
DWG-21.1 | DWG-21.1



ALTERNATE BID- EXPEDITED CONTAINMENT BUILDING MOVES
DWG-21.1 | DWG-21.1



EXCAVATION SEQUENCE SCHEMES
NOT TO SCALE

- NOTE:**
1. MOVE TEMPORARY CONTAINMENT BUILDING ALONG GROUND VIA SKIDS OR RAILS/WHEELS; OR VIA CRANE LIFTING OR OTHER LIFTING METHOD, AS APPROVED.

ISSUED FOR CONSTRUCTION

NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	RJP	JAS	8/2011	NOTE REVISED FOR DRAWING REFERENCE
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

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 CHECKED BY: **EWK**
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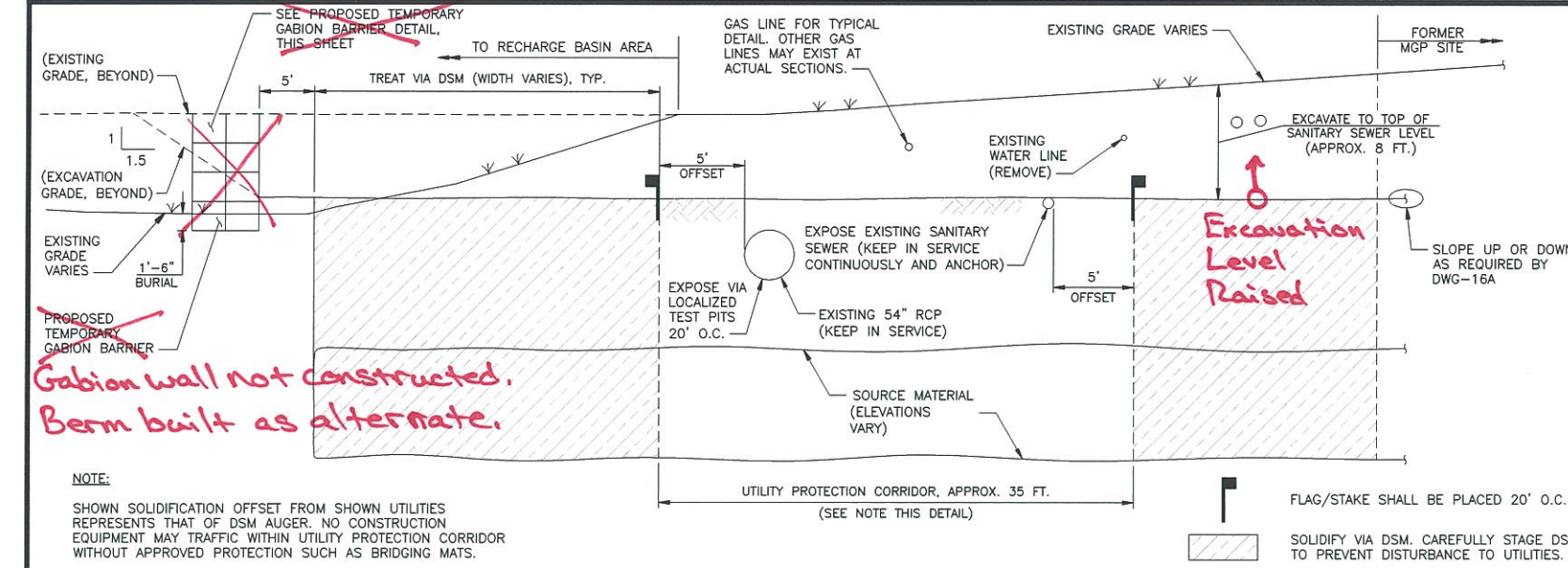
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THE HEMPSTEAD
 INTERSECTION STREET
 FORMER MANUFACTURED GAS
 PLANT SITE

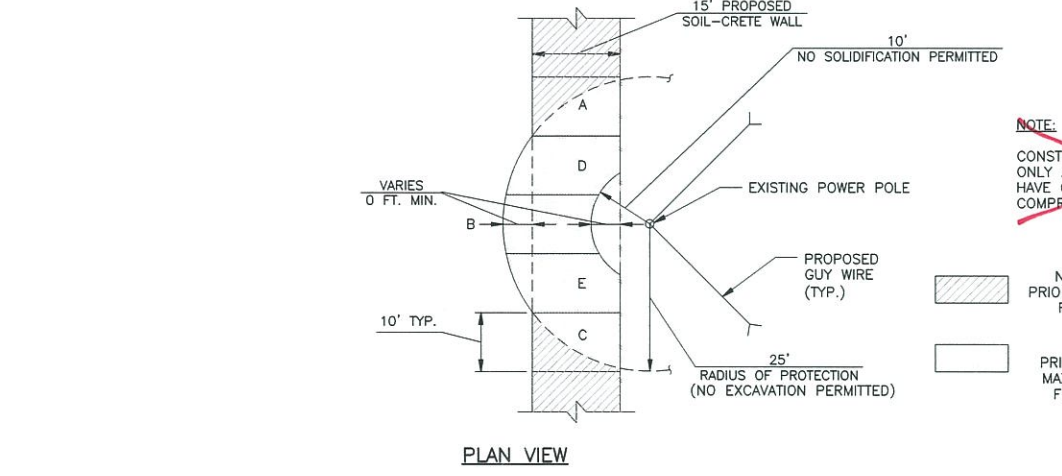
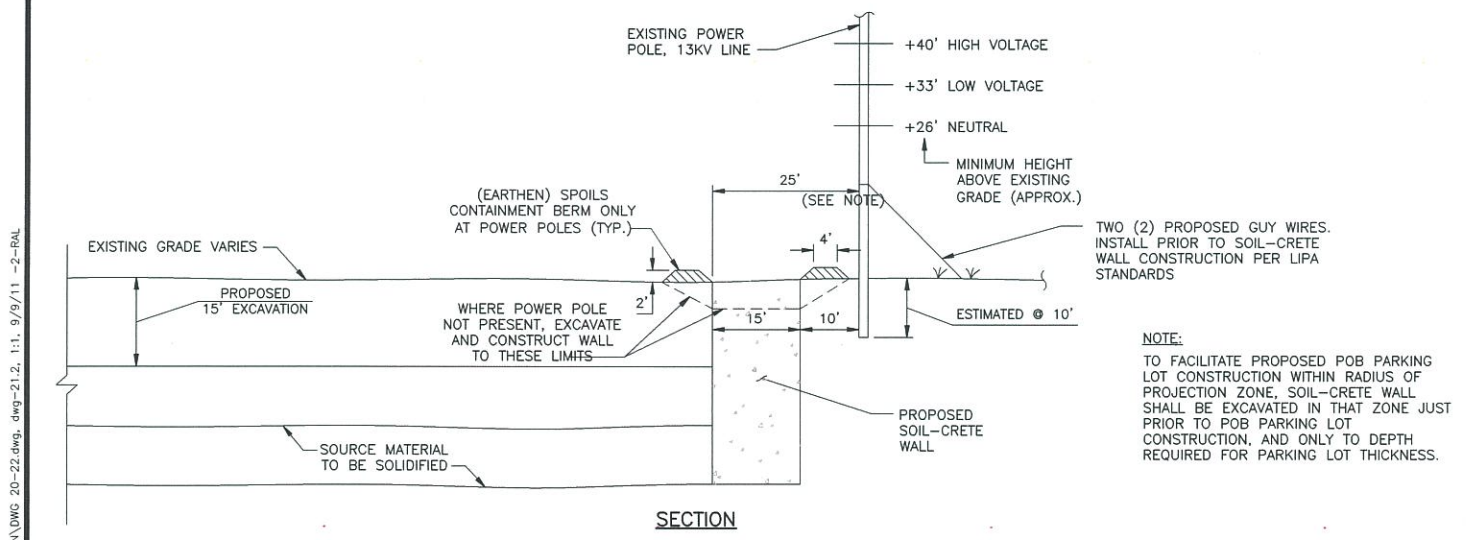
REMEDICATION DETAILS
 (SHEET 1 OF 2)

Scale: AS SHOWN | Date: APRIL 2011 | DWG-21.1

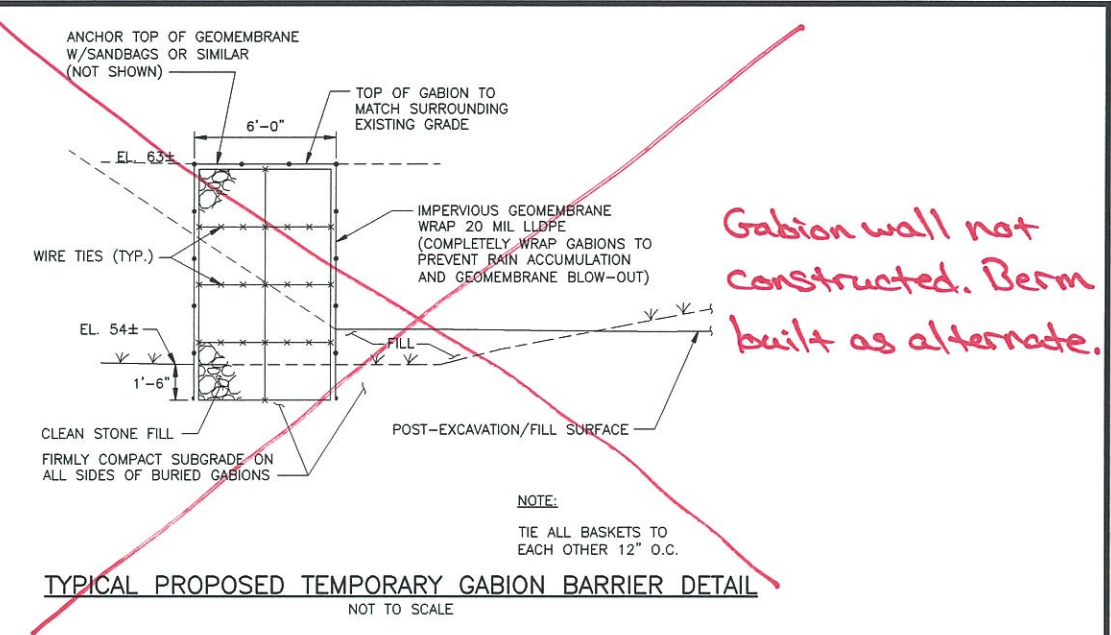
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△ TYPICAL SOLIDIFICATION AT GARDEN CITY PARK AREA DETAIL
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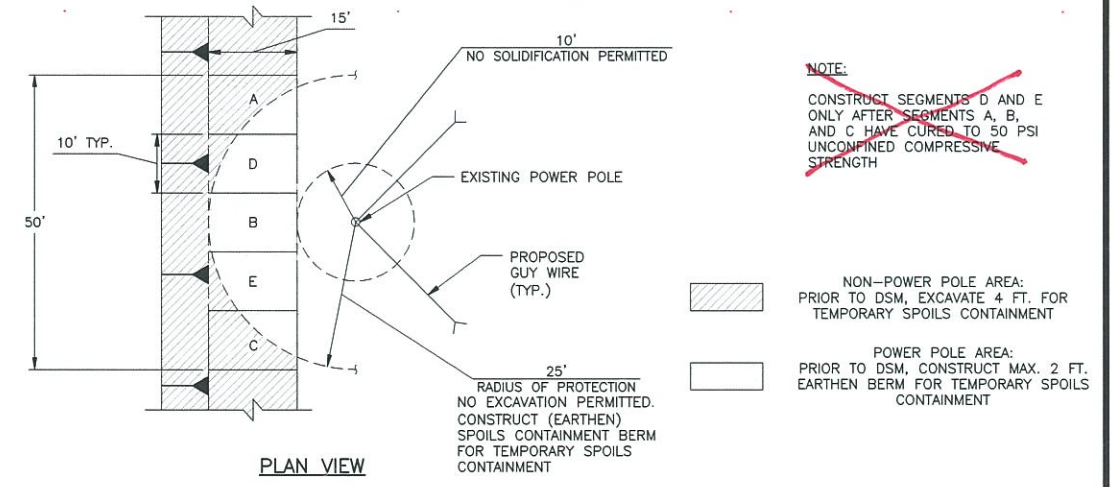
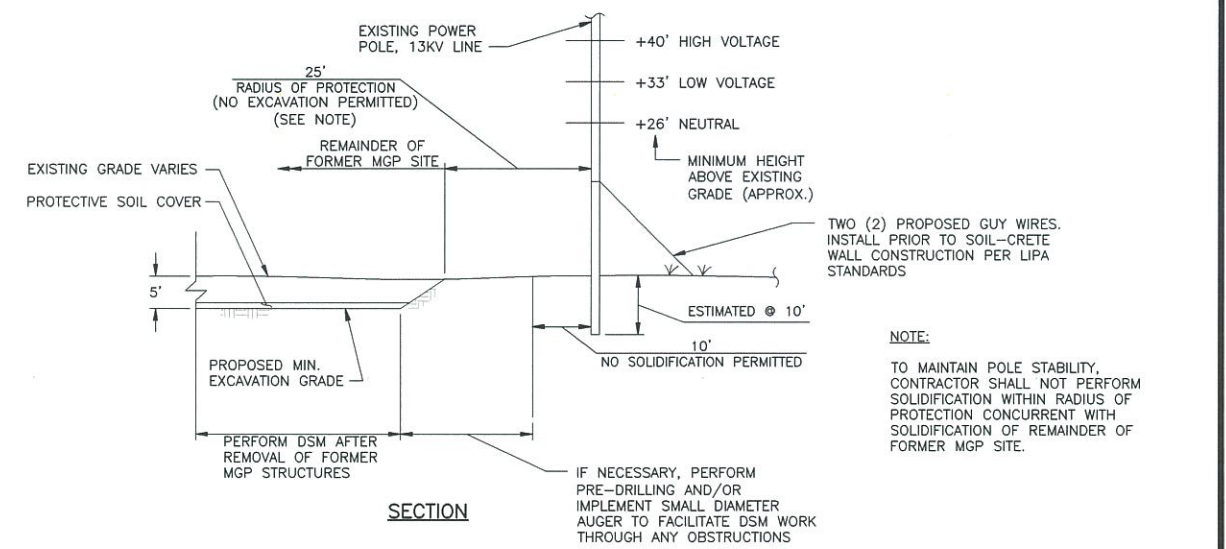


△ TYPICAL SOLIDIFICATION AT POB PARKING LOT (WEST AND EAST SIDES) DETAIL
NOT TO SCALE



TYPICAL PROPOSED GABION BARRIER DETAIL
NOT TO SCALE

Gabion wall not constructed. Berm built as alternate.



△ TYPICAL SOLIDIFICATION AROUND LIPA POLES ALONG FORMER MGP SITE DETAIL
NOT TO SCALE

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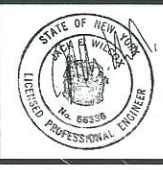
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2	RJP	JAS	8/2011	DETAIL TITLES REVISED
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

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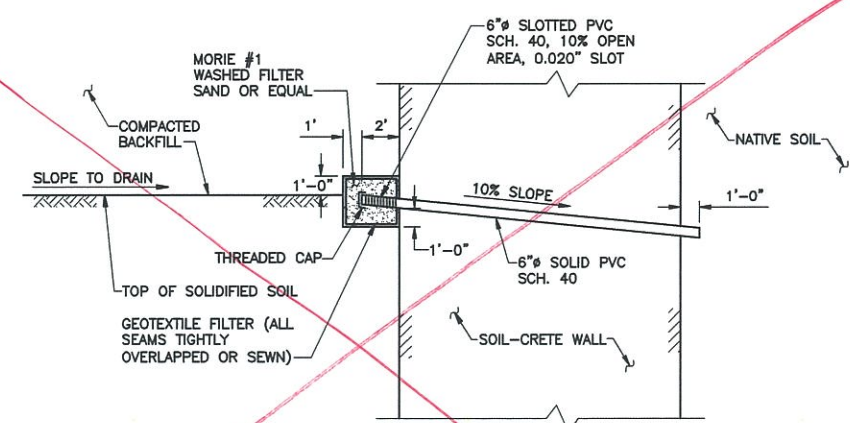


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THE HEMPSTEAD INTERSECTION STREET
FORMER MANUFACTURED GAS PLANT SITE

REMEDATION DETAILS (SHEET 2 OF 2)
Scale: AS SHOWN Date: APRIL 2011 DWG-21.2

GEOTEXTILE FILTER PROPERTIES			
PROPERTY	ASTM METHOD	UNITS	REQUIRED VALUE
FLOW RATE	D4491	gal/min/ft ²	MIN. 1.2x10 ⁻⁰¹
AOS	D4751	SIEVE	MAX. NO. 70 SIZE
POROSITY	D6767	PERCENT	MIN. 40
GRAB STRENGTH	D4632	lbs.	MIN. 160
GRAB ELONGATION	D4632	PERCENT	MIN. 50
SEWN SEAM STRENGTH	D4632	lbs.	MIN. 140
TEAR STRENGTH	D4533	lbs.	MIN. 60
PUNCTURE STRENGTH	D4833 OR D6241	lbs.	MIN. 60
PERMITTIVITY	D4491	S ⁻¹	MIN. 0.1
ULTRAVIOLET STABILITY	D4355	PERCENT AFTER 500 HRS. EXPOSURE	MIN. 50



- NOTES:
1. PLACE WEEP HOLE PIPES 50' O.C. (TOTAL OF 7).
 2. EXTEND FILTER SAND 1'-0" ON BOTH SIDES OF PIPE, FOR TOTAL 2'-6" LATERAL WIDTH.

TYPICAL POB SOIL-CRETE WEEP HOLE DETAIL
SCALE IN FEET

Soil-crete weep holes not constructed. Vertical relief drains installed instead. See change notices and Field Clarification Memo 011-Rev1.

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1	RJP	JAS	11/2011	NEW DRAWING ISSUED FOR CONSTRUCTION - SOIL-CRETE WALL WEEP HOLES
REVISIONS				

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 DRAWN BY: RAL
 CHECKED BY: JAS
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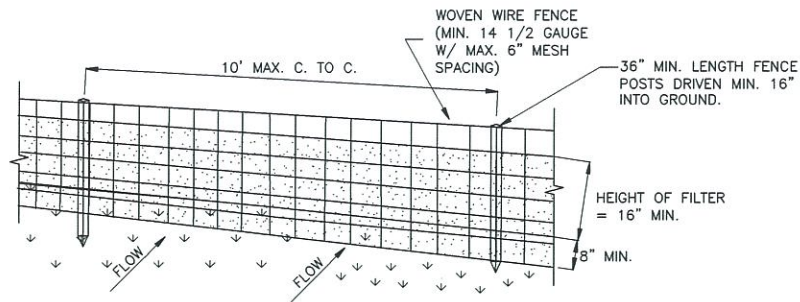
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THE HEMPSTEAD INTERSECTION STREET
 FORMER MANUFACTURED GAS PLANT SITE

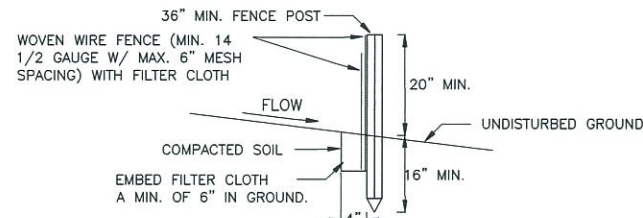
SOIL-CRETE WALL DETAIL

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PERSPECTIVE VIEW

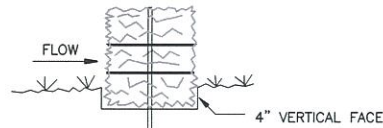


SECTION VIEW

CONSTRUCTION SPECIFICATIONS

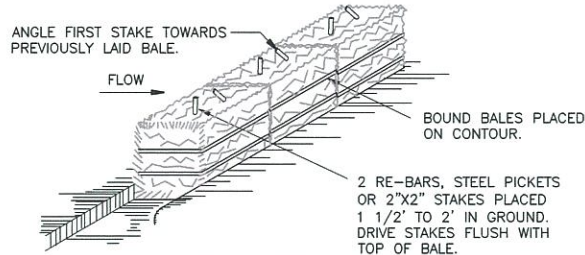
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 14 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE MIRAFI 100X, OR APPROVED EQUIVALENT.
- PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

TYPICAL SILT FENCE
NOT TO SCALE



BEDDING DETAIL
NOT TO SCALE

DRAINAGE AREA NO MORE THAN 1/4 ACRE PER 100 FEET OF STRAW BALE DIKE FOR SLOPES LESS THAN 25%.

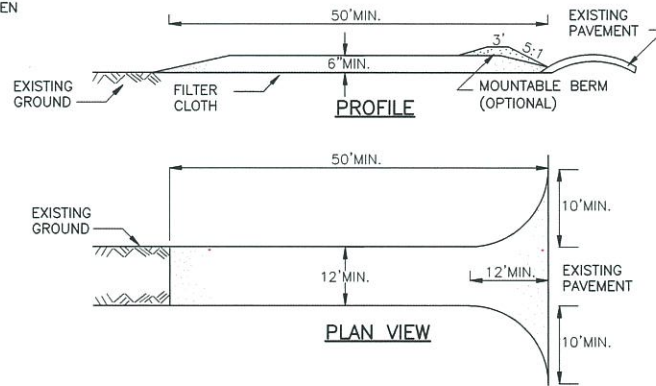


ANCHORING DETAIL
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4", AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

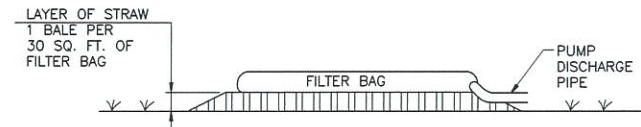
TYPICAL HAY BALE
NOT TO SCALE



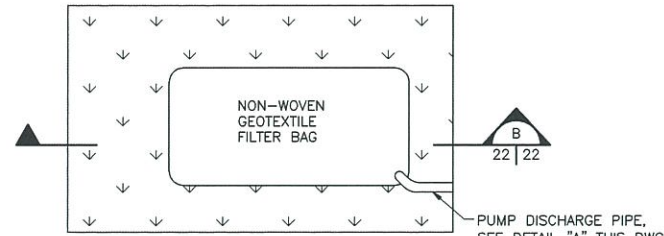
STABILIZED CONSTRUCTION ENTRANCE

CONSTRUCTION SPECIFICATIONS

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - NOT LESS THAN 50 FEET.
- THICKNESS - NOT LESS THAN 6".
- WIDTH - 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



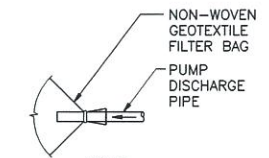
SECTION B
22 | 22



PLAN

SEDIMENT FILTER BAG DETAIL

NOT TO SCALE



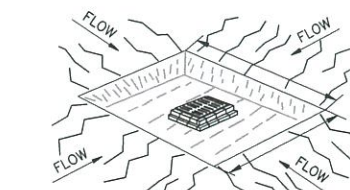
DETAIL "A"

NOTE:
USE PROPERLY-SIZED HOSE CLAMP TO PROVIDE A SECURE CONNECTION BETWEEN THE PUMP DISCHARGE PIPE AND THE FILTER BAG.

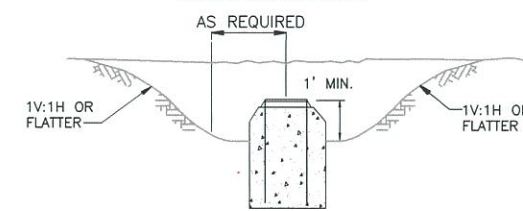
DETAIL "A"

SPECIFICATIONS:

WEIGHT	ASTM D3776	8.3 OZ./YD.
THICKNESS	ASTM D1777	120 MILS.
GRAB TENSILE	ASTM D4632	240 LBS.
GRAB ELONGATION AT BREAK	ASTM D4632	50%
PUNCTURE RESISTANCE	ASTM D4833	115 LBS.
TRAPEZOIDAL TEAR	ASTM D4533	100 LBS.
MULLEN BURST	ASTM D3786	350 LBS.
WATER, FLOW RATE	ASTM D4491	105 GPM/FT.
PERMITTIVITY	ASTM D4491	1.7 SEC.-1
UV RESISTANCE	ASTM D4355	85% STR. RET.
BAG DIMENSIONS	TO BE PROPOSED BY CONTRACTOR	



PERSPECTIVE VIEW



CROSS SECTION
CONSTRUCTION SPECIFICATIONS

- SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE APPROVED AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE VOLUME OF SEDIMENT STORAGE SHALL BE 1,800 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRS MADE AS NEEDED, AS DIRECTED BY THE CONSTRUCTION MANAGER.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER IMPACTS SHALL BE PREVENTED.
- THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE CONSTRUCTED DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

CATCH BASIN SEDIMENT TRAP

NOT TO SCALE

ISSUED FOR CONSTRUCTION

J:\1175085.0000\CAD\DRAW\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION.DWG 20-22.dwg, dwg-22, 1:1, 9/9/11 -1-RAL

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION
REVISIONS				

DESIGNED BY: DNM
DRAWN BY: RAL
CHECKED BY: EWK
PROJ. MGR. JAS

URS Corporation
New York
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JOB NO. 11176098

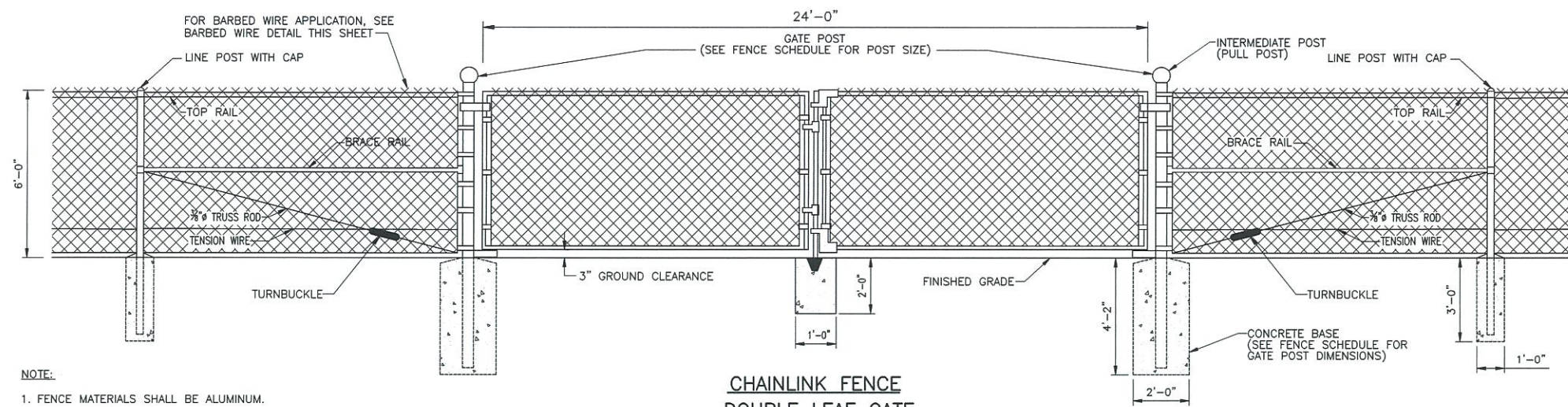


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THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

EROSION AND SEDIMENT CONTROL DETAILS	
Scale: AS SHOWN	Date: APRIL 2011
DWG-22	

This drawing was computer generated. Any changes must be made to the original drawing and signed by the engineer.



- FENCE NOTES:**
- FOR FENCE REQUIREMENTS, REFER TO SPECIFICATION SECTION 02821.
 - STEEL PIPES AND SHAPES SHALL WEIGH AT LEAST 95% OF THE WEIGHT SPECIFIED ON THIS SHEET. THEY MAY EXCEED THE SPECIFIED WEIGHT.

FENCE ACCESSORY SCHEDULE	
ACCESSORY	ALUMINUM
FABRIC TIES FOR TOP AND BRACE	3/16" Ø ALUMINUM WIRE AT 24" C.C. MAX.
FABRIC TIES FOR LINE POSTS	3/16" Ø ALUMINUM WIRE AT 14" MAX. OR 1/2" X .06" CLIPS AT 14" MAX.
FABRIC TIES FOR TENSION WIRE	3/16" Ø ALUMINUM WIRE AT 12"
BOTTOM TENSION WIRE	3/16" Ø ALUMINUM WIRE

NOTE:
1. FENCE MATERIALS SHALL BE ALUMINUM.

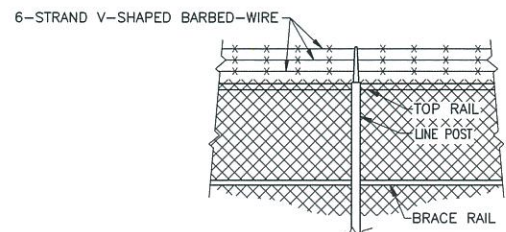
FENCE SCHEDULE			
LINE POSTS UNIFORM SPACING			
FENCE HEIGHT	POST DIAMETER	WEIGHT	SPACING
6'	2.5" O.D.	3.65 LBS/L.F.	10' O.C. MAX.

CORNER, INTERMEDIATE AND TERMINAL POSTS		
FENCE HEIGHT	POST DIAMETER	WEIGHT
6'	3.0" O.D.	5.79 LBS/L.F.

FABRIC SIZE		
FENCE HEIGHT	MESH SIZE	MESH WEIGHT
6'	2"	6 GAUGE (0.192 IN.)

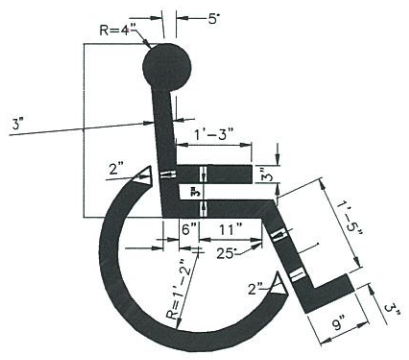
GATE POSTS		
FENCE HEIGHT	POST DIA.	WEIGHT
6'	4" O.D.	3.15 LB./FT

CHAINLINK FENCE DOUBLE LEAF GATE (SHOWN WITH WELDED FRAME)
SCALE: 3/8" = 1'-0"



NOTE:
1. BARBED WIRE ON GATES SHALL BE 3-STRAND SINGLE VERTICAL ROW.

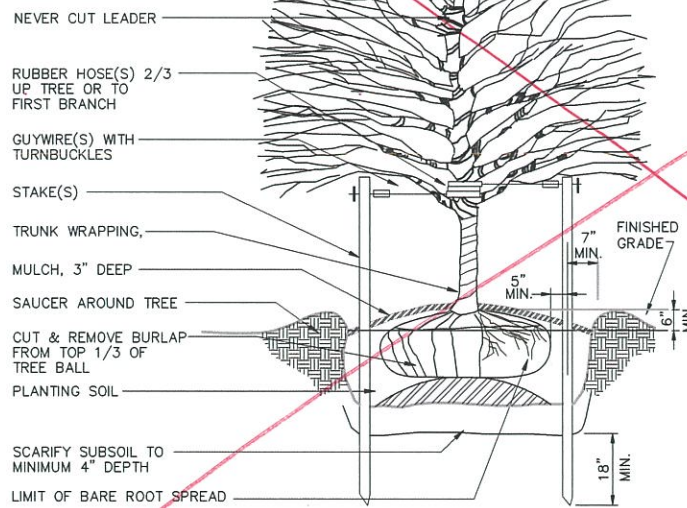
BARBED WIRE DETAIL
SCALE: 3/8" = 1'-0"



HANDICAPPED SYMBOL
NOT TO SCALE

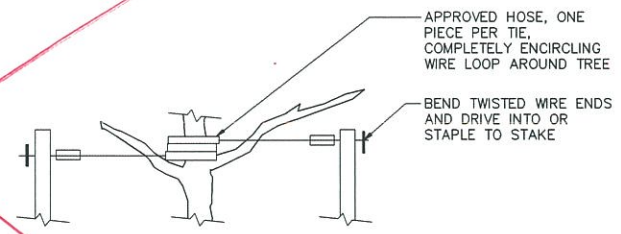
TREE-PLANTING NOTES:

- TREE SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUSLY EXISTING GRADE.
- ALL TREES SHALL BE STAKED.
- WHERE TREES OCCUR IN EXISTING GRAVEL AREAS, EXCAVATE TREE PIT THROUGH GRAVEL. BACKFILL AND COMPACT PLANTING SOIL. PLACE TOP OF ROOT BALL 6" ABOVE SURROUNDING GRADE.



TREE PLANTING W/STAKES
NOT TO SCALE

Tree plantings by others



DETAIL OF STAKING TIE
NOT TO SCALE

ISSUED FOR CONSTRUCTION

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

DESIGNED BY: **DNM**
 DRAWN BY: **RAL**
 CHECKED BY: **EWK**
 PROJ. MGR. **JAS**

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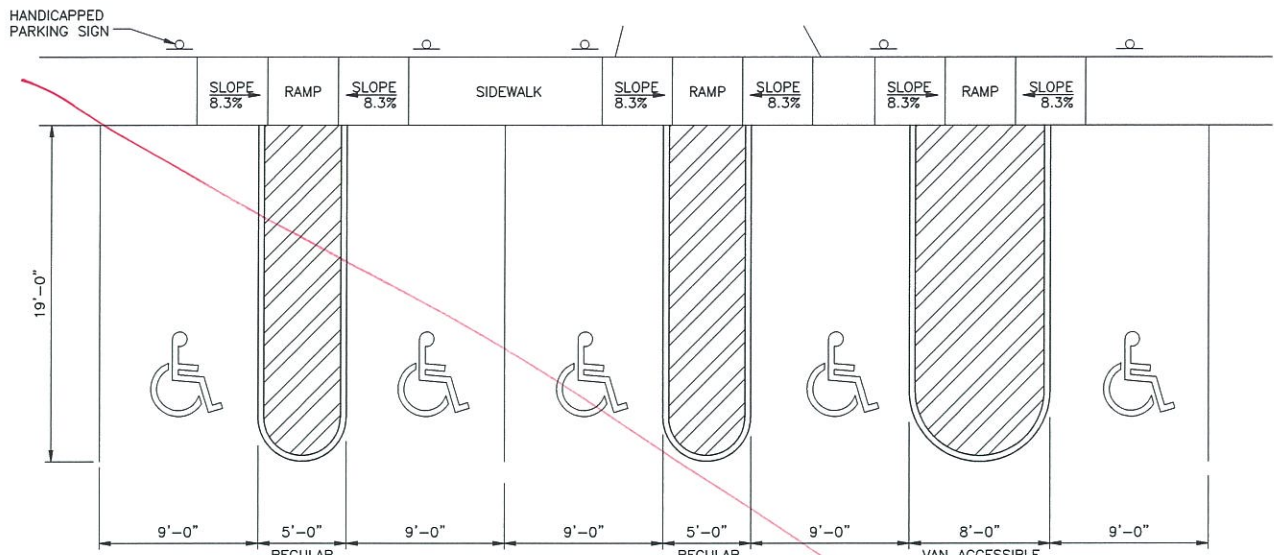
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FENCE AND LANDSCAPE DETAILS	
Scale: AS SHOWN	Date: APRIL 2011
DWG-23	

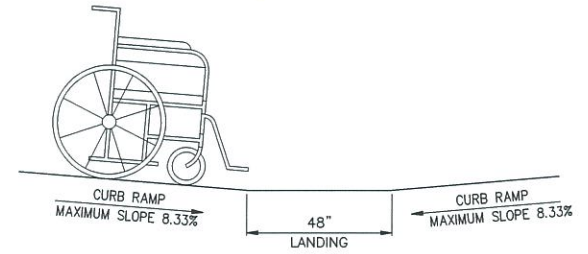
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J:\11725065_00000_CAD\DWG\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECIFICATIONS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 23-24.dwg, DWG 24, 1:1, 9/9/11 - 1-RAL



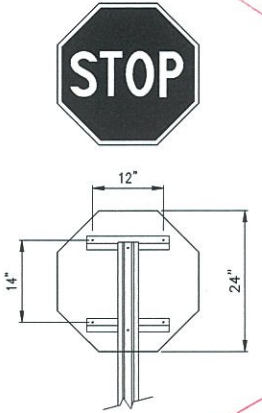
HANDICAP ACCESSIBLE PARKING DETAIL
NOT TO SCALE

NOTES:
1. TYPICAL HANDICAP LAYOUT SHOWN FOR PLAN B PARKING LOT. REFER TO DWG. 14A FOR PLAN A LAYOUT, AND THIS DETAIL FOR TYPICAL DIMENSIONS.

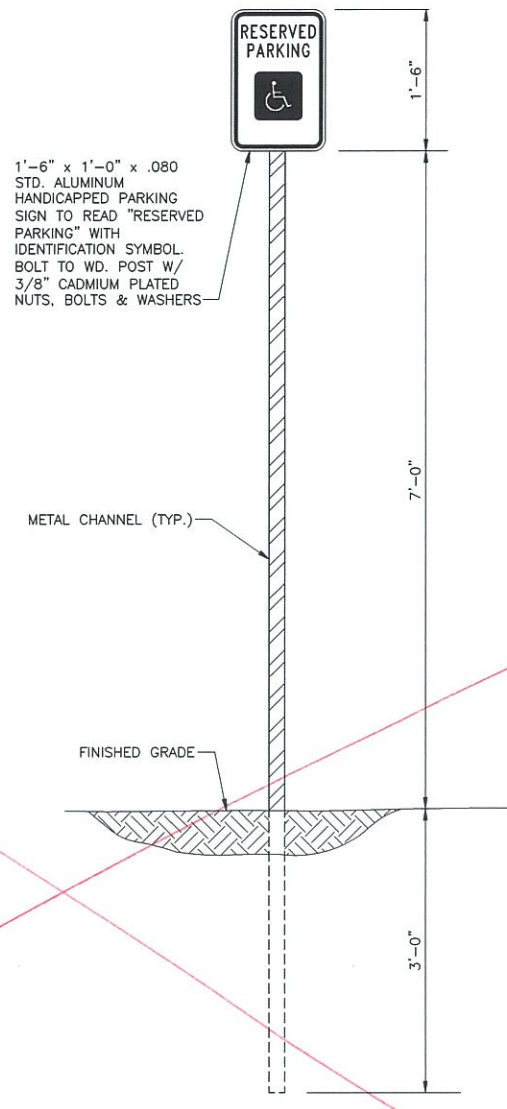


COUNTER SLOPE CONDITIONS DETAIL
NOT TO SCALE

NOTE:
1. THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF A CURB RAMP, LANDING, OR BLENDED TRANSITION SHALL BE 5% MAXIMUM.
2. TO AVOID WHEELCHAIR FOOTREST STRIKING PAVEMENT, PROVIDE 48" LEVEL STRIP (1:50 MAX. IN DIRECTION OF PEDESTRIAN TRAVEL) IF ALGEBRAIC DIFFERENCE BETWEEN CURB RAMP SLOPE AND ROADWAY CROSS SLOPE EXCEEDS 11%.



STOP SIGN DETAIL
NOT TO SCALE



HANDICAPPED PARKING SIGN INSTALLATION DETAIL
NOT TO SCALE

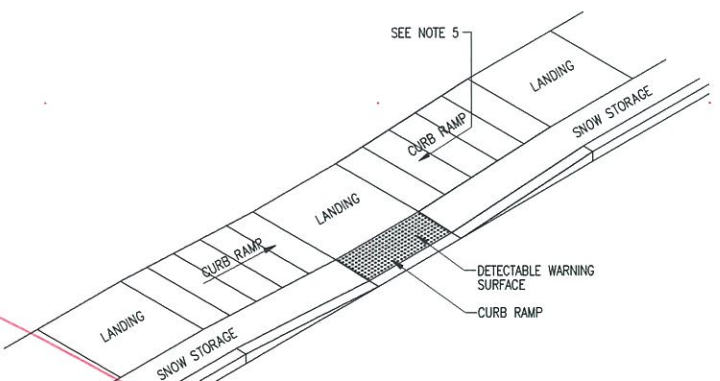


HANDICAPPED PARKING SIGN DETAIL
NOT TO SCALE

Not in Contract

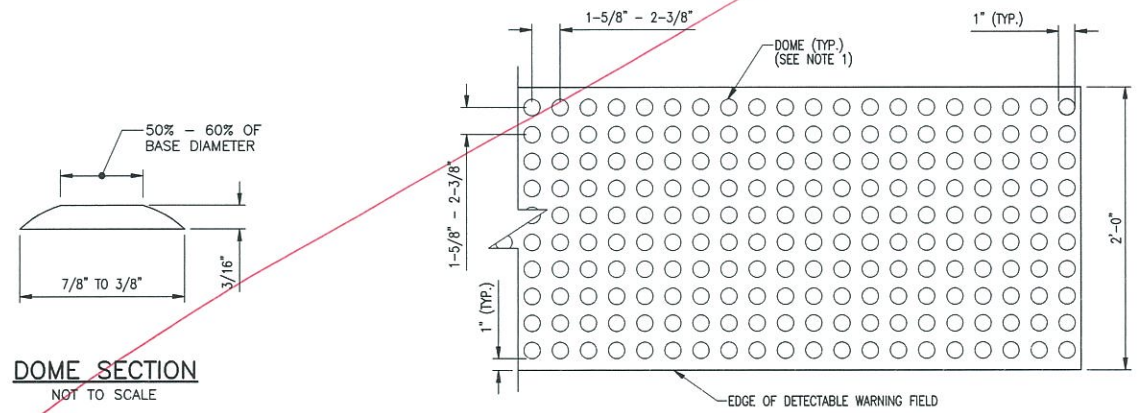
- SIDEWALK RAMP NOTES:**
1. SIDEWALK CURB RAMP TYPE AND LOCATION ARE AS SHOWN ON THESE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
 2. THE SIDEWALK RAMP TYPES DEPICTED HERE MAY NOT BE APPROPRIATE FOR ALL LOCATIONS. FIELD CONDITIONS AT INDIVIDUAL LOCATIONS MAY REQUIRE SPECIFIC DESIGNS AS DIRECTED BY THE ENGINEER.
 3. SIDEWALK CURB RAMP TYPES MAY BE DIFFERENT AT EACH LOCATION WITHIN AN INTERSECTION.
 4. THE MINIMUM WIDTH OF A SIDEWALK CURB RAMP SHALL BE FIVE FEET, EXCLUSIVE OF FLARED SIDES.
 5. IF FEASIBLE, PROVIDE FOR DRAINAGE INLETS OR GRATES IMMEDIATELY UPSTREAM FROM THE CURB RAMP. RETICULINE OR RECTANGULAR DRAINAGE GRATES ARE TO BE USED IN AREA OF CURB RAMP.
 6. LANDINGS SHALL HAVE A MINIMUM CLEAR DIMENSION OF A 48" BY 48" SQUARE. LANDINGS MAY OVERLAP WITH ADJACENT LANDINGS OR A SINGLE LANDING MAY SERVE MULTIPLE CURB RAMP. LANDINGS MAY OVERLAP WITH THE CLEAR GROUND SPACE REQUIRED AT PEDESTRIAN SIGNAL PUSH BUTTONS.
 7. THE MAXIMUM CROSS SLOPE OF CURB RAMPS SHALL BE 2 PERCENT. THE MAXIMUM CROSS SLOPE AT LANDINGS IS 2 PERCENT IN ANY DIRECTION. SURFACES SHALL GENERALLY LIE IN CONTINUOUS PLANES WITH A MINIMUM SURFACE WARP.
 8. THE RUNNING GRADE OF CURB RAMPS SHALL BE AS FLAT AS PRACTICAL. THE MAXIMUM RUNNING GRADE OF ANY PORTION OF ANY CURB RAMP SHALL BE 1:12 (8.3%). CURB RAMPS ARE NOT REQUIRED TO BE LONGER THAN 15 FEET.
 9. CURB RAMPS LOCATED WHERE PEDESTRIANS MAY WALK ACROSS THE CURB RAMP SHALL HAVE FLARED SIDES. THE LENGTH OF THE FLARES SHALL BE AT LEAST TEN (10) TIMES THE CURB HEIGHT, MEASURED ALONG THE CURB LINE. WHEN INFEASIBLE OR IMPRACTICABLE TO PROVIDE A LANDING THAT IS AT LEAST 48" WIDE (MEASURED FROM THE TOP OF THE RAMP TO THE BACK OF THE SIDEWALK), THE LENGTH OF THE FLARES SHALL BE TWELVE (12) TIMES THE CURB HEIGHT MEASURED ALONG THE CURB LINE.
 10. THE SURFACE OF ALL CURB RAMPS SHALL BE STABLE, FIRM AND SLIP RESISTANT. A COARSE BROOM FINISH RUNNING PERPENDICULAR TO THE SLOPE IS RECOMMENDED ON CONCRETE RAMP SURFACES, EXCLUSIVE OF DETECTABLE WARNING FIELDS.
 11. RAMP TRANSITIONS BETWEEN WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES (1/4" MAX.).
 12. COORDINATE ALL TRAFFIC CONTROL DEVICES, UTILITY LOCATIONS, SIGNS, STREET FURNITURE AND DRAINAGE TO ENSURE A CONTINUOUS PEDESTRIAN ACCESS ROUTE AT ALL CURB RAMP LOCATIONS. GUIDANCE FOR CROSSWALK MARKINGS AND TRAFFIC CONTROL DEVICES IS PROVIDED IN THE MUTCD. DRAINAGE GRATES AND UTILITY ACCESS COVERS ARE NOT ALLOWED IN RAMP WALKING SURFACES OR LANDINGS.
 13. AT MARKED CROSSINGS, THE FULL WIDTH OF THE RAMP SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS. THE SIDES OF THE RAMPS (THE FLARES) NEED NOT BE WITHIN THE WIDTHS OF THE MARKINGS.

- DETECTABLE WARNING SURFACE GENERAL NOTES:**
1. THE DETAILS PROVIDED ARE NOT DRAWN TO SCALE. THE QUANTITY OF DOMES DEPICTED ON THE DETECTABLE WARNING UNIT (THE DOMES AND THE ENTIRE 24" LEVEL SURFACE) IS FOR ILLUSTRATION ONLY.
 2. DETECTABLE WARNINGS SHALL BE LOCATED SO THAT THE EDGE OR CORNER OF THE WARNING FIELD NEAREST TO THE ROADWAY IS 6" TO 8" FROM THE FRONT OF THE CURB OR THE ROADWAY EDGE (12" WHERE TRAVERSABLE CURB IS USED).
 3. THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 6'-0" MINIMUM AND 15'-0" MAXIMUM FROM THE CENTERLINE OF THE NEAREST RAIL.
 4. THE DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL.
 5. THE DETECTABLE WARNING FIELD SHALL BE THE COLOR THAT MEET THE REQUIREMENTS OF THE NYS DOT STANDARD SPECIFICATIONS.



CONCRETE SIDEWALK RAMP DETAIL
NOT TO SCALE

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DETECTABLE WARNING UNIT DETAIL
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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

DESIGNED BY: **DNM**
 DRAWN BY: **RAL**
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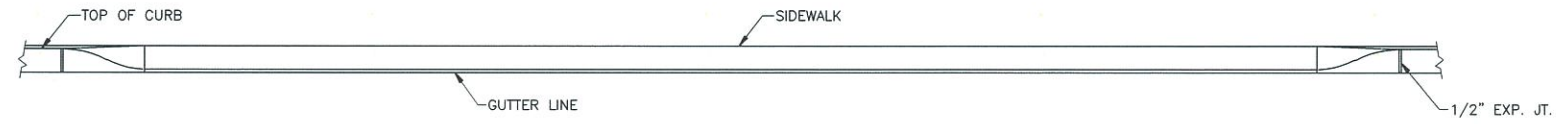
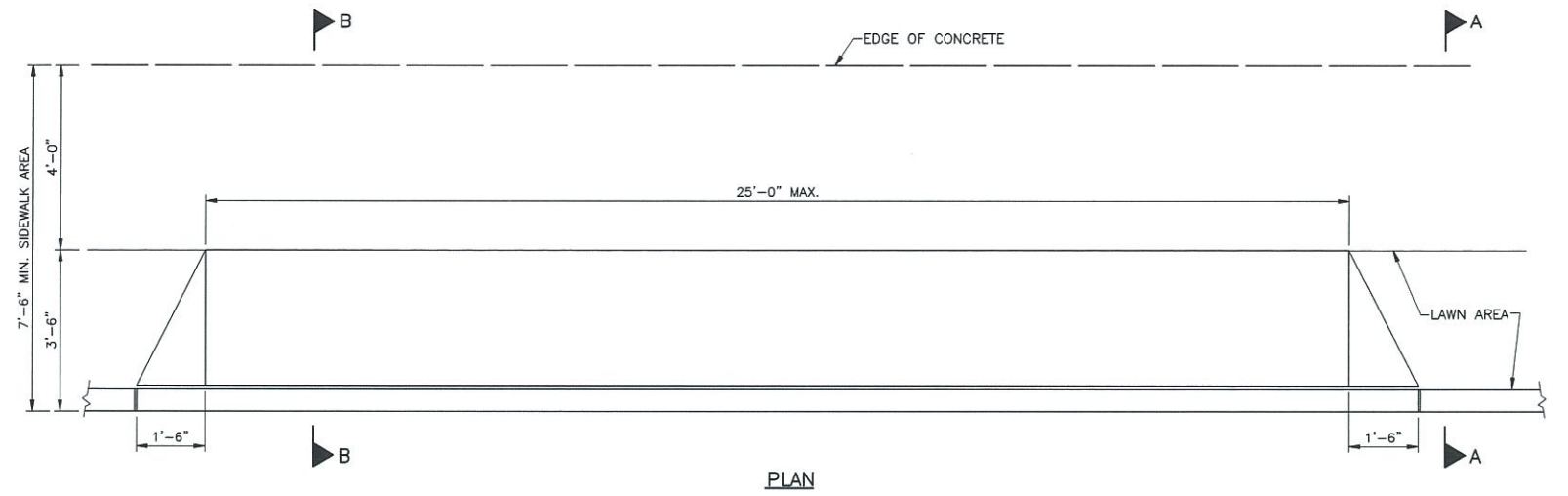


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 INTERSECTION STREET
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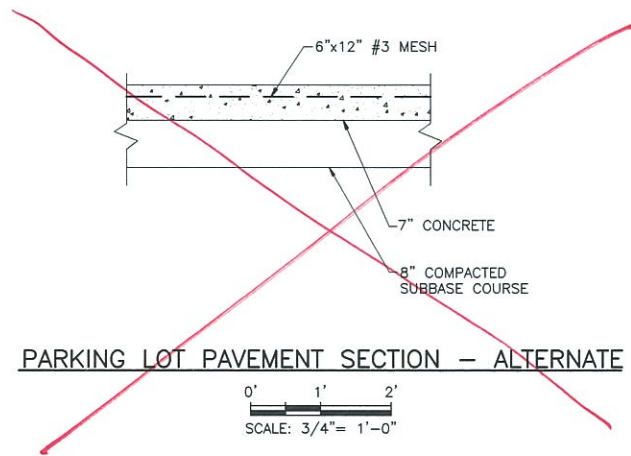
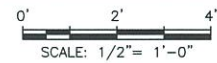
HANDICAP RAMP AND
 SIGNAGE DETAILS

Scale: AS SHOWN Date: APRIL 2011 DWG-24

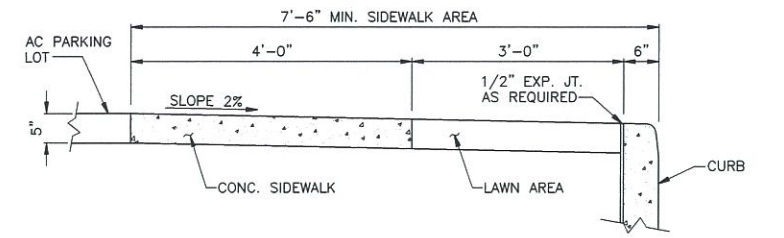
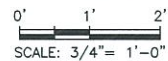


FRONT ELEVATION

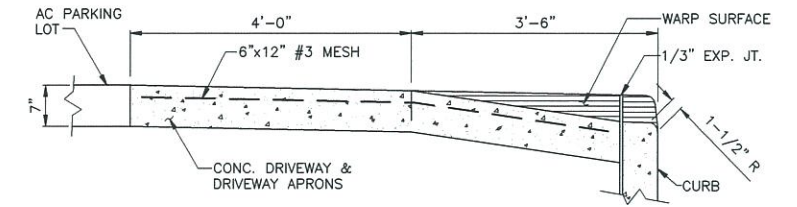
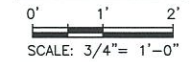
PARKING LOT APPROACH DETAIL



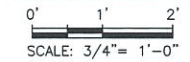
PARKING LOT PAVEMENT SECTION - ALTERNATE



SECTION A-A

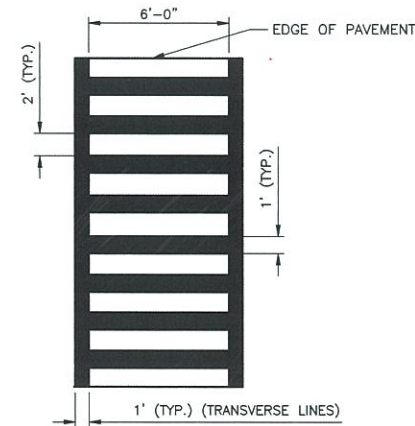


SECTION B-B



METAL REINFORCEMENT FOR CONCRETE PAVEMENT NOTES:

1. ALL MEMBERS SHALL MEET THE SPECIFICATIONS FOR SPECIFICATION SECTION 03210.
2. ALL MEMBERS OF WELDED MATS SHALL MEET THE RESPECTIVE DETAILED SPECIFICATIONS FOR STEEL FABRIC OR STEEL BARS AFTER FABRICATION.
3. ALL MEMBERS MAY BE PLAIN UNDEFORMED SECTION PROVIDING THAT THEY ARE WELDED AT ALL INTERSECTIONS.
4. END MATS MAY CONSIST OF DEFORMED MEMBERS PROVIDING THAT THEY ARE SECURELY FASTENED IN AN APPROVED MANNER AT ALL INTERSECTIONS AROUND THE OUTSIDE OF MATS AND AT EVERY ALTERNATE INTERSECTION WITHIN THE MAT.
5. ALL MATS SHALL BE OF RIGID CONSTRUCTION AND ANY MEMBERS BENT OR DISPLACED IN HANDLING SHALL BE STRAIGHTENED AND REFASTENED BEFORE PLACING.
6. ALL INTERMEDIATE MATS SHALL BE OF THE SAME LENGTH THROUGHOUT THE ENTIRE CONTRACT AND THE OVERHANG OF ANY LONGITUDINAL MEMBER SHALL NOT EXCEED SIX INCHES.
7. CONCRETE SHALL BE SCREEDED OFF A UNIFORM 2-1/2 INCHES BELOW THE FINAL FINISH SURFACE BEFORE PLACING THE REINFORCEMENT.



COMBINED TYPE LS

NOTE: ALL CROSSWALK MARKINGS SHALL BE WHITE.

TYPICAL CROSSWALK DETAIL

NOT TO SCALE

ISSUED FOR CONSTRUCTION

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION
REVISIONS				

DESIGNED BY: DNM
DRAWN BY: RAL
CHECKED BY: EWK
PROJ. MGR. JAS

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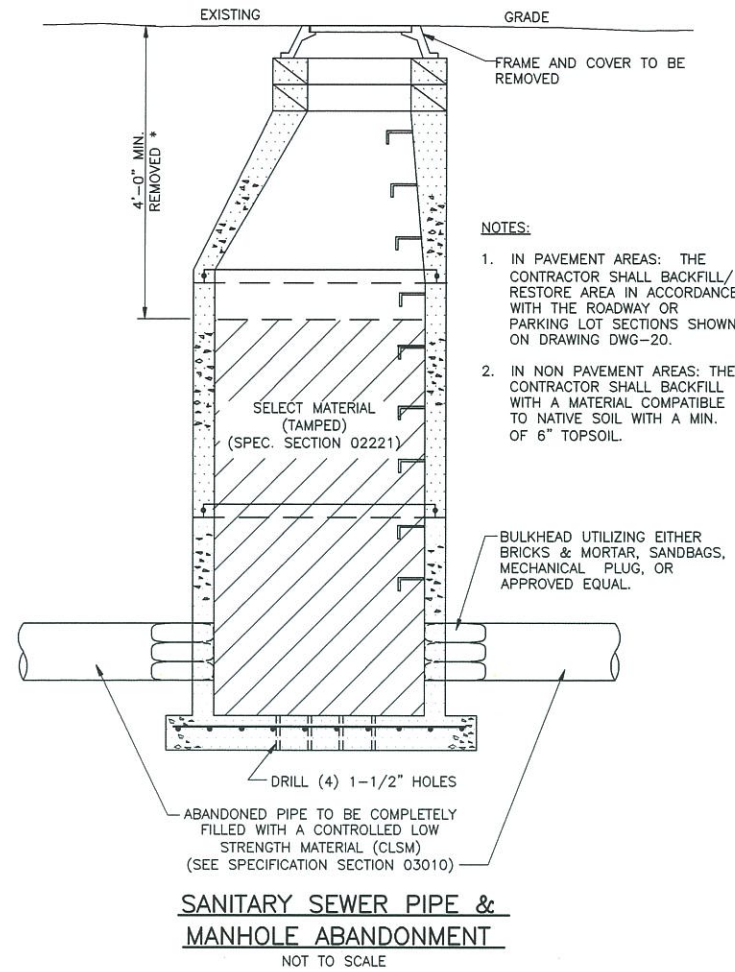
THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

PARKING LOT AND
APPROACH DETAILS

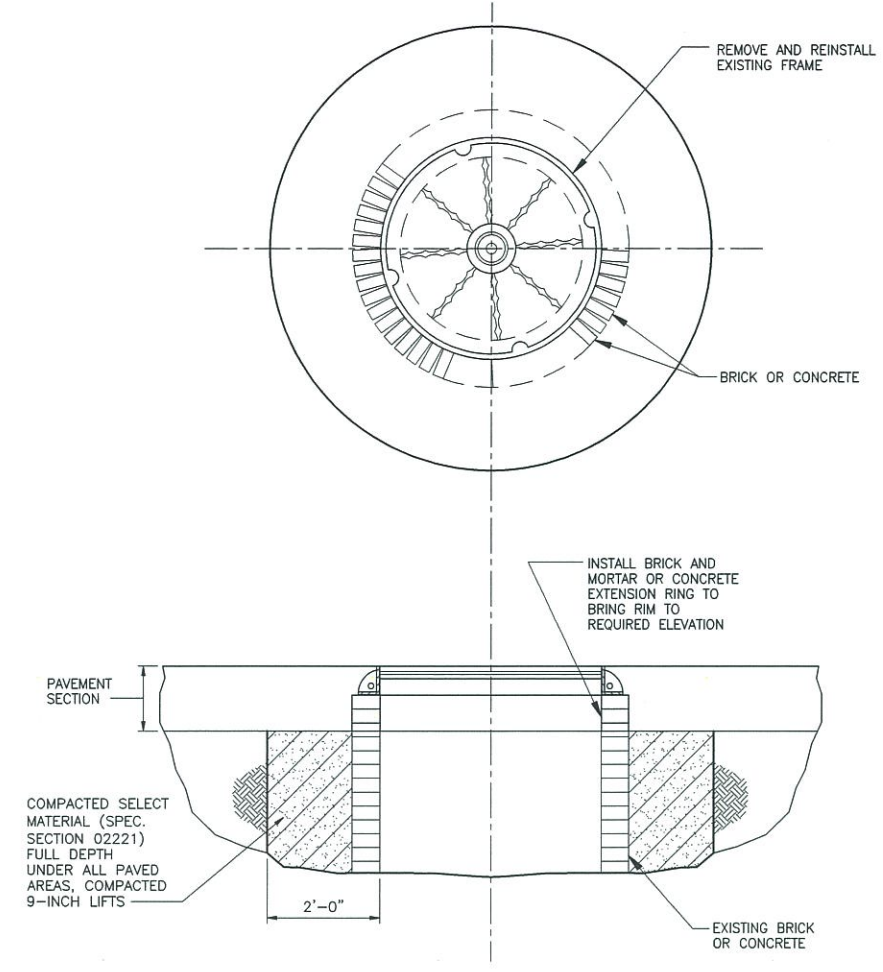
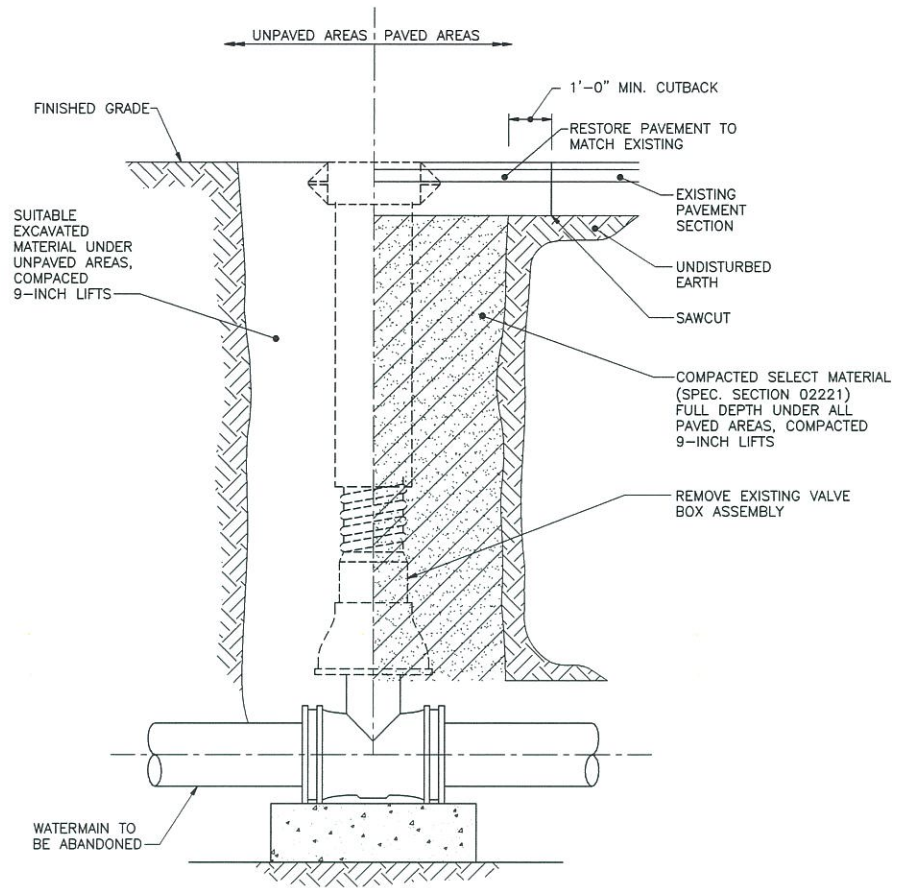
Scale: AS SHOWN Date: APRIL 2011 DWG-25

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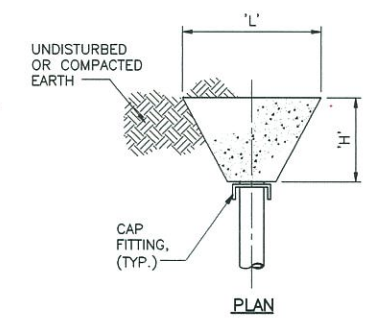
J:\1175065\00000\CAD\DRAWING\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 26.dwg, DWG 26, 1:1, 9/9/11 -1-RAL



- NOTES:**
1. IN PAVEMENT AREAS: THE CONTRACTOR SHALL BACKFILL/RESTORE AREA IN ACCORDANCE WITH THE ROADWAY OR PARKING LOT SECTIONS SHOWN ON DRAWING DWG-20.
 2. IN NON PAVEMENT AREAS: THE CONTRACTOR SHALL BACKFILL WITH A MATERIAL COMPATIBLE TO NATIVE SOIL WITH A MIN. OF 6" TOPSOIL.

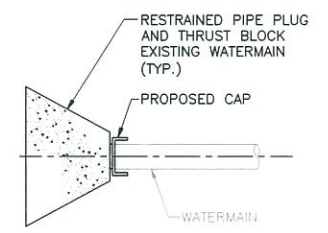


NOTE:
MASONRY MORTAR SHALL BE IN ACCORDANCE WITH NYS DOT REQUIREMENTS FOR 705-21.



DIMENSION SCHEDULE (IN FEET)		
PIPE SIZE	TEE OR CAP	
----	'H'	'L'
6" OR 8"	2.00	3.75

TYPICAL THRUST BLOCK DIMENSION SCHEDULE
NOT TO SCALE



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1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

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DRAWN BY: **RAL**
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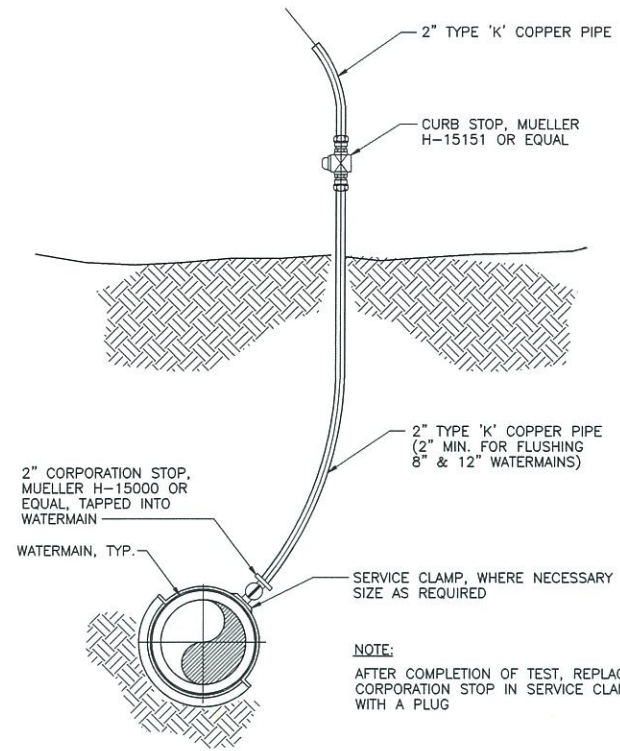
THE HEMPSTEAD INTERSECTION STREET
FORMER MANUFACTURED GAS PLANT SITE

UTILITY ADJUSTMENT AND ABANDONMENT DETAILS

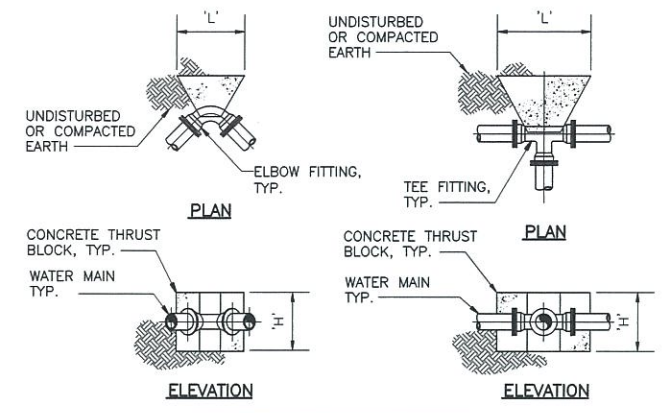
Scale: AS SHOWN Date: APRIL 2011 DWG-26

This drawing was computer generated. I, the undersigned, certify that I am a duly licensed Professional Engineer in the State of New York and that I am the author of this drawing and that I am not aware of any falsification of the information contained herein.

THESE DETAILS APPLY TO RECONSTRUCTED UTILITIES ON INTERSECTION STREET



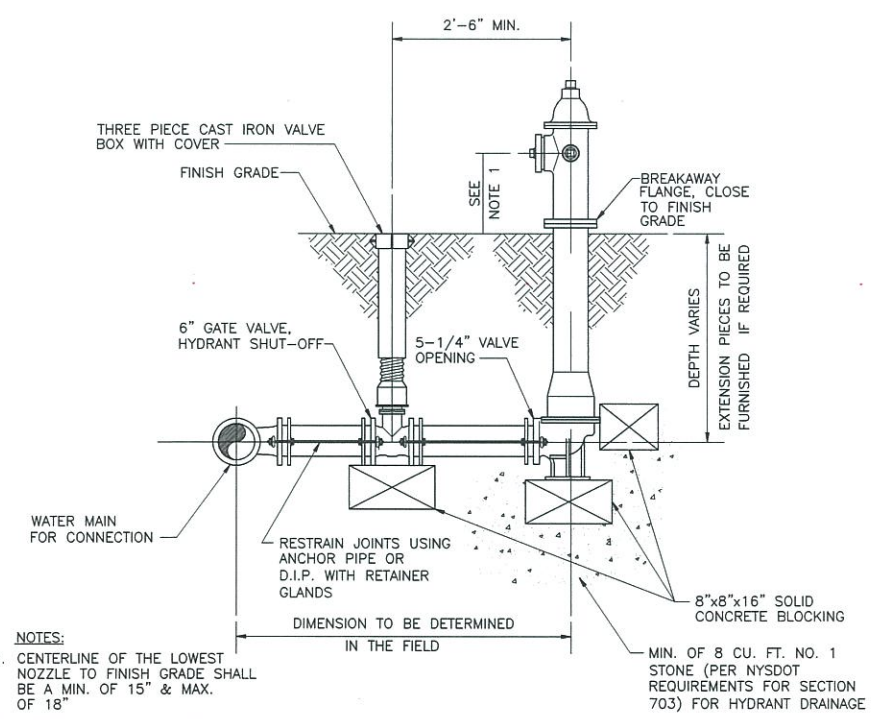
TEMPORARY BLOWOFF/SAMPLING POINT DETAIL
NOT TO SCALE



DIMENSION SCHEDULE (IN FEET)				
PIPE SIZE	45° ELBOW		11.25° ELBOW	
	'H'	'L'	'H'	'L'
6"	1.50'	2.00'	1.00'	1.50'

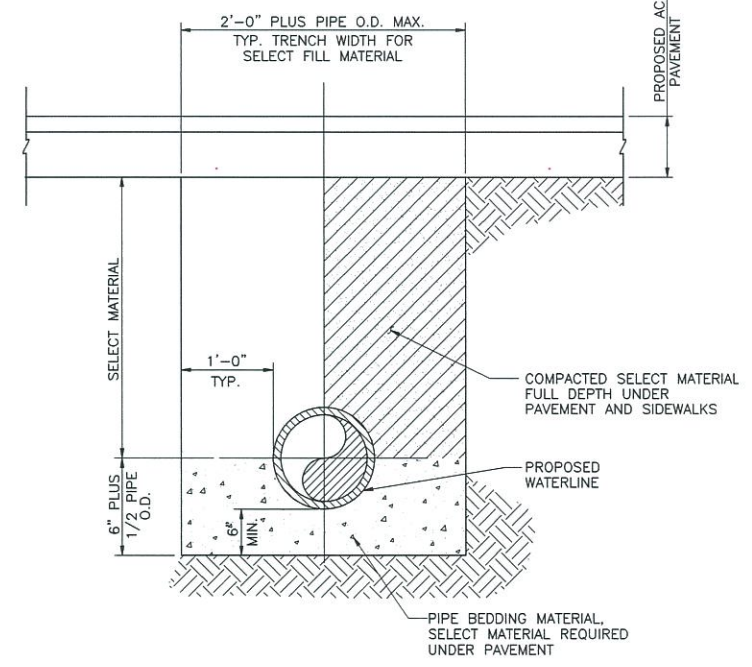
DIMENSION SCHEDULE (IN FEET)		
PIPE SIZE	TEE OR TAP SLEEVE	
	'H'	'L'
6"	1.50'	2.50'

TYPICAL THRUST BLOCK DIMENSION SCHEDULE
NOT TO SCALE

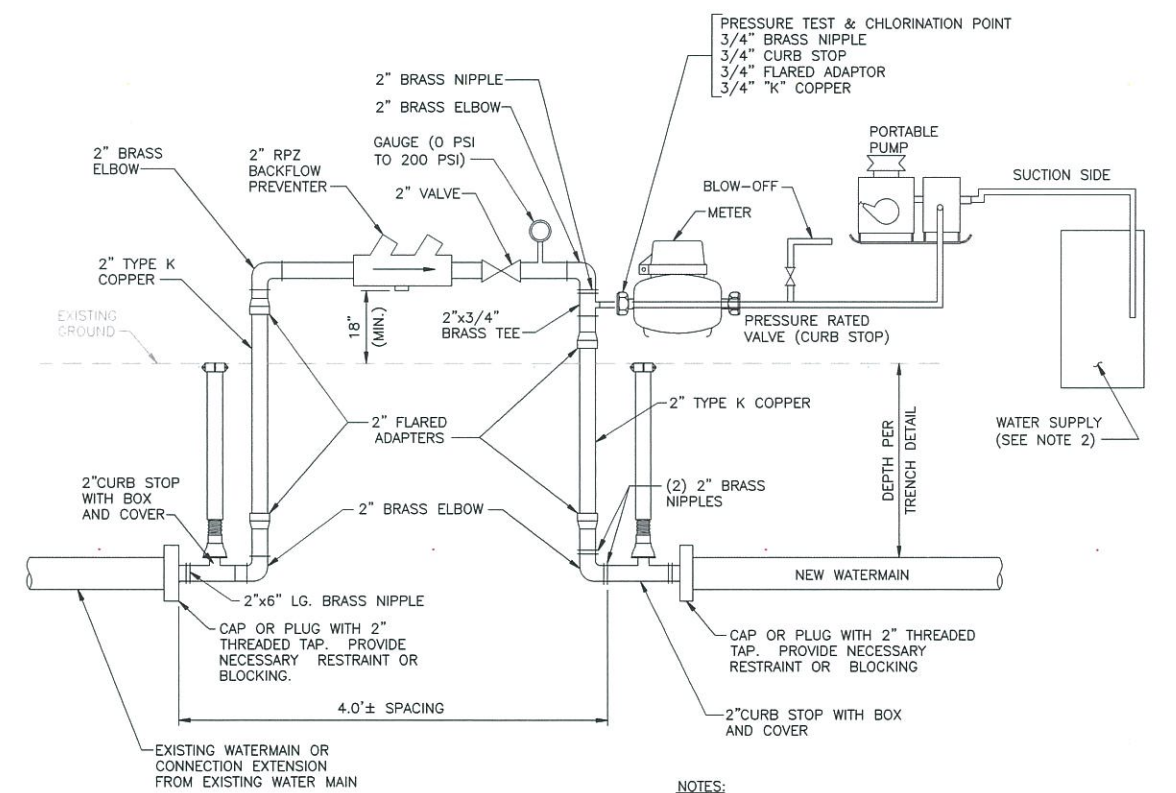


- NOTES:**
- CENTERLINE OF THE LOWEST NOZZLE TO FINISH GRADE SHALL BE A MIN. OF 15" & MAX. OF 18"
 - HYDRANT SHALL BE INSTALLED A MINIMUM OF 18" BEHIND CURB AND 10' FROM PAVEMENT EDGE WHERE NO CURB EXISTS.

TYPICAL FIRE HYDRANT INSTALLATION DETAIL
NOT TO SCALE



TRENCH PAYMENT LIMITS DETAIL
NOT TO SCALE



- NOTES:**
- BACTERIOLOGICAL WATER SAMPLES SHALL BE TAKEN AT WATERMAIN BEGINNING AND END STATIONS AND AT MAXIMUM 1000 FT. SPACING.
 - FOR PRESSURE TESTING PROVIDE CLEAN WATER SUPPLY. FOR DISINFECTION PROVIDE CHLORINATED WATER SUPPLY.

TESTING AND DISINFECTING EQUIPMENT DETAIL
NOT TO SCALE

ISSUED FOR CONSTRUCTION

J:\1175045\00000\CAD\DRAW\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION DWG 26.1A.dwg, DWG 26.1A, 1:1, 9/9/11 -1-RAL

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION
REVISIONS				

DESIGNED BY: DNM
DRAWN BY: RAL
CHECKED BY: EWK
PROJ. MGR. JAS

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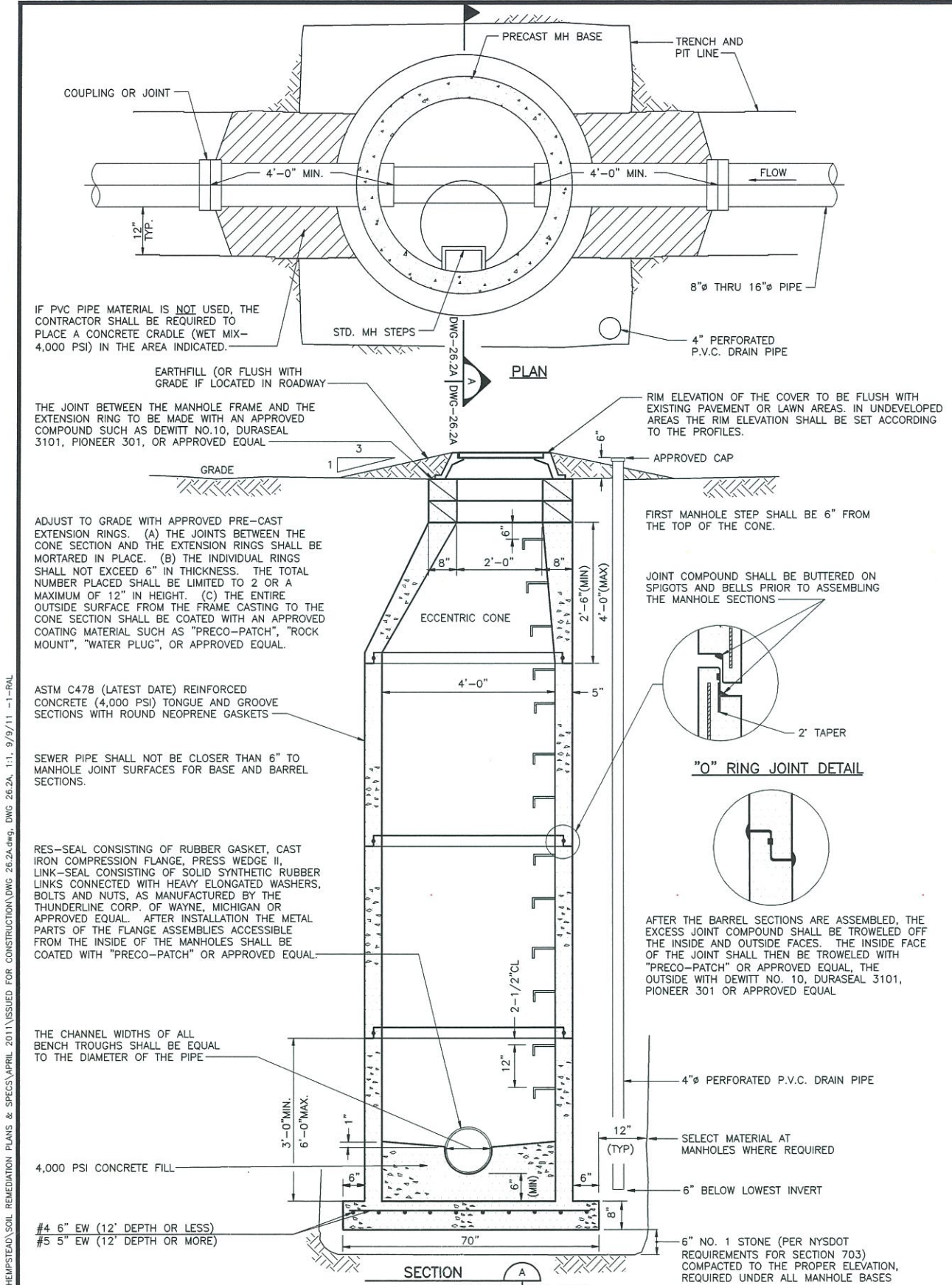


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THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

UTILITY ADJUSTMENT AND
ABANDONMENT DETAILS
Scale: AS SHOWN Date: APRIL 2011 DWG-26.1A

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IF PVC PIPE MATERIAL IS NOT USED, THE CONTRACTOR SHALL BE REQUIRED TO PLACE A CONCRETE CRADLE (WET MIX-4,000 PSI) IN THE AREA INDICATED.

EARTHFILL (OR FLUSH WITH GRADE IF LOCATED IN ROADWAY)

THE JOINT BETWEEN THE MANHOLE FRAME AND THE EXTENSION RING TO BE MADE WITH AN APPROVED COMPOUND SUCH AS DEWITT NO.10, DURASEAL 3101, PIONEER 301, OR APPROVED EQUAL

ADJUST TO GRADE WITH APPROVED PRE-CAST EXTENSION RINGS. (A) THE JOINTS BETWEEN THE CONE SECTION AND THE EXTENSION RINGS SHALL BE MORTARED IN PLACE. (B) THE INDIVIDUAL RINGS SHALL NOT EXCEED 6" IN THICKNESS. THE TOTAL NUMBER PLACED SHALL BE LIMITED TO 2 OR A MAXIMUM OF 12" IN HEIGHT. (C) THE ENTIRE OUTSIDE SURFACE FROM THE FRAME CASTING TO THE CONE SECTION SHALL BE COATED WITH AN APPROVED COATING MATERIAL SUCH AS "PRECO-PATCH", "ROCK MOUNT", "WATER PLUG", OR APPROVED EQUAL.

ASTM C478 (LATEST DATE) REINFORCED CONCRETE (4,000 PSI) TONGUE AND GROOVE SECTIONS WITH ROUND NEOPRENE GASKETS

SEWER PIPE SHALL NOT BE CLOSER THAN 6" TO MANHOLE JOINT SURFACES FOR BASE AND BARREL SECTIONS.

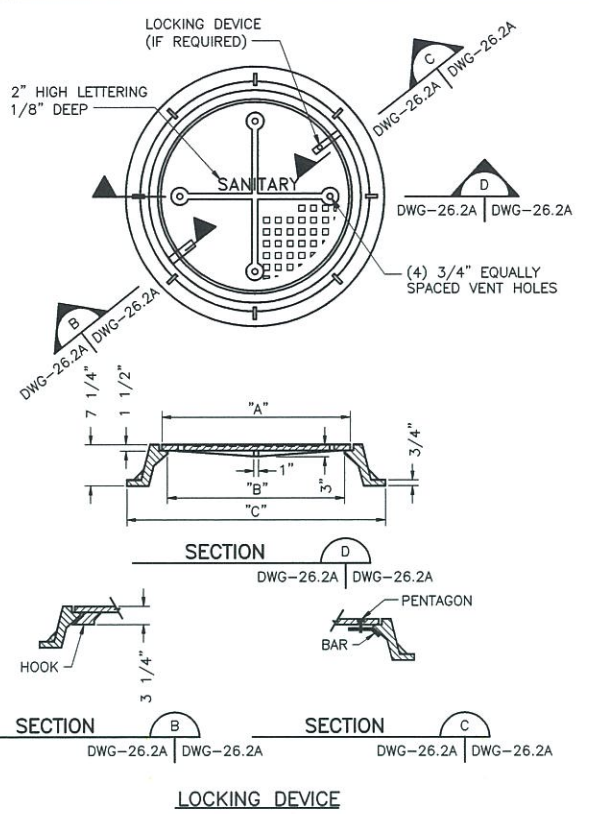
RES-SEAL CONSISTING OF RUBBER GASKET, CAST IRON COMPRESSION FLANGE, PRESS WEDGE II, LINK-SEAL CONSISTING OF SOLID SYNTHETIC RUBBER LINKS CONNECTED WITH HEAVY ELONGATED WASHERS, BOLTS AND NUTS, AS MANUFACTURED BY THE THUNDERLINE CORP. OF WAYNE, MICHIGAN OR APPROVED EQUAL. AFTER INSTALLATION THE METAL PARTS OF THE FLANGE ASSEMBLIES ACCESSIBLE FROM THE INSIDE OF THE MANHOLES SHALL BE COATED WITH "PRECO-PATCH" OR APPROVED EQUAL.

THE CHANNEL WIDTHS OF ALL BENCH TROUGHS SHALL BE EQUAL TO THE DIAMETER OF THE PIPE

4,000 PSI CONCRETE FILL

#4 6" EW (12" DEPTH OR LESS)
#5 5" EW (12" DEPTH OR MORE)

MONOLITHIC PRECAST 4'-0" MANHOLE BASE FOR SEWERS 16"Ø OR LESS
NOT TO SCALE

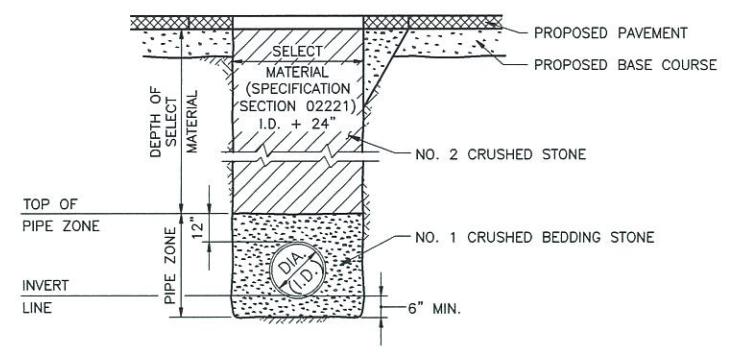


LOCKING DEVICE

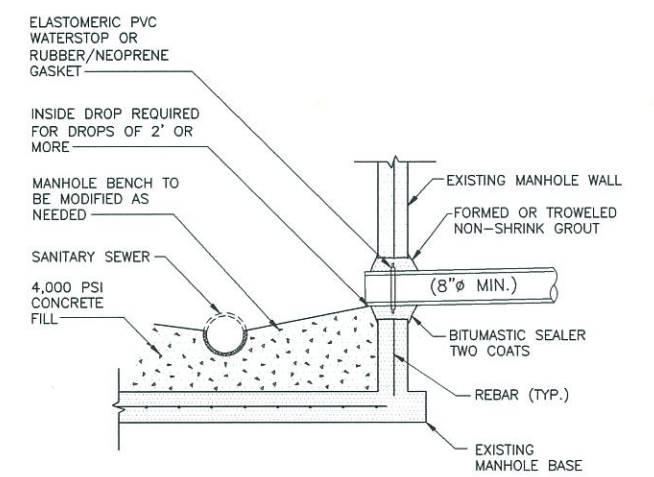
TABLE			
PIPE SIZE	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"
8" THRU 18"	24"	22"	35"(MAX.)

- STANDARD FRAME AND COVER NOTES:
1. MATERIAL ASTM A48 CLASS 30B CAST IRON.
 2. UNIT SHALL WITHSTAND H-20 WHEEL LOADING.
 3. ALL DIMENSIONS ARE TO BE CONSIDERED MINIMUM WITH THE EXCEPTION OF THE COVER, WHICH SHALL CONFORM EXACTLY TO MAINTAIN INTERCHANGEABILITY WITHIN THE COUNTY.
 4. COVER WEIGHT 210 LBS. (MAX).
 5. COATING NOT REQUIRED.
 6. FRAMES AND COVERS SHALL HAVE MACHINED BEARING SURFACES.
 7. LOCKING DEVICE SHALL BE SITUATED TO ALLOW EASY REMOVAL OF COVER.
 8. NO COMMERCIAL BRAND NAME LETTERING WILL BE ALLOWED ON THE EXPOSED SURFACE OF THE COVER.

STANDARD FRAME AND COVER
(PIPE SIZES 8" AND UP)
NOT TO SCALE



SANITARY SEWER TRENCH DETAIL
NOT TO SCALE



- NOTES:
1. CORE DRILL ENTRANCE HOLE IN MANHOLE BARREL, BASE AND/OR BENCH FOR REQUIRED PIPE CLEARANCE.

CONNECTION TO EXISTING MANHOLE
NOT TO SCALE

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

DESIGNED BY: **DNM**
DRAWN BY: **RAL**
CHECKED BY: **EWK**
PROJ. MGR. **JAS**

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THE HEMPSTEAD
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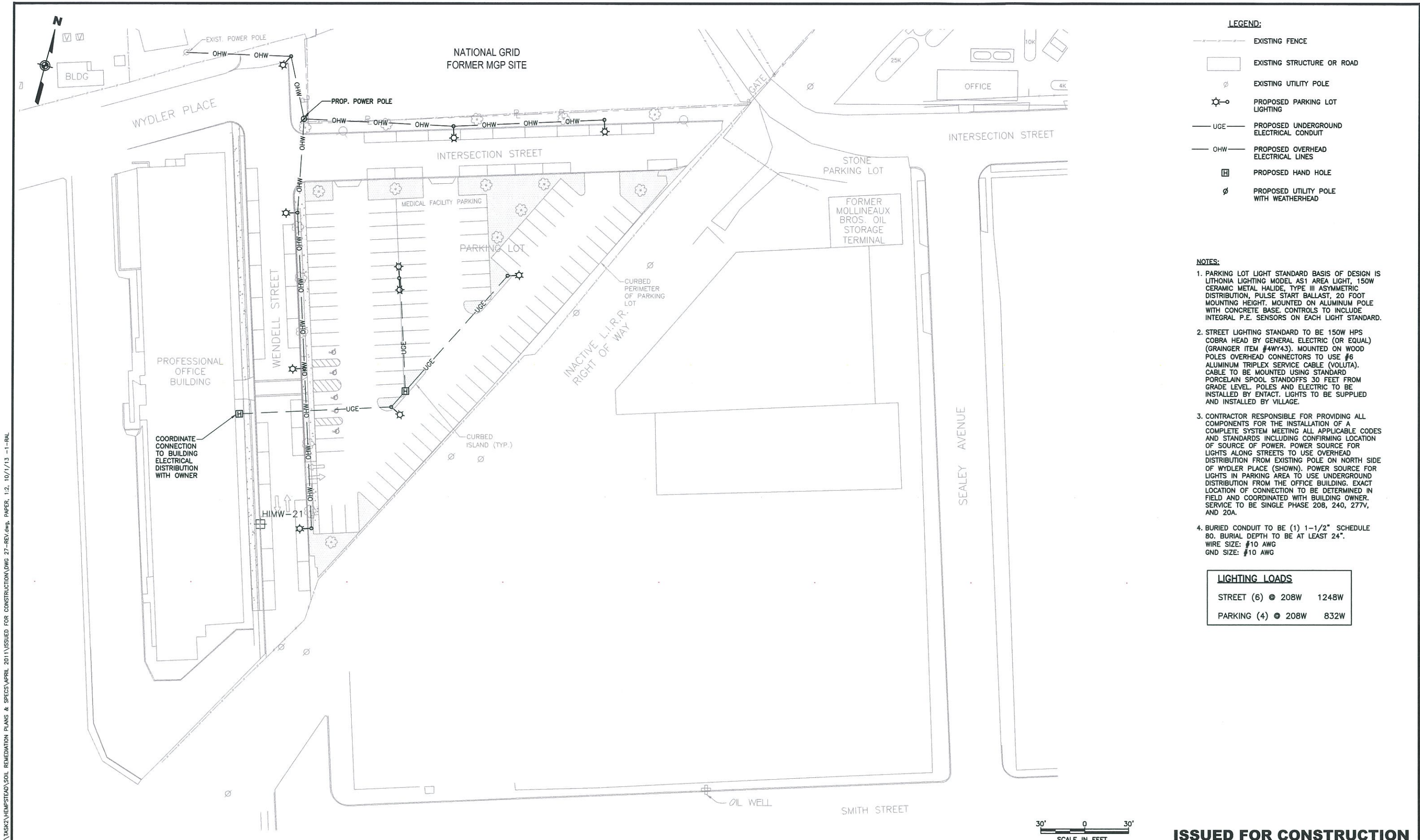
UTILITY ADJUSTMENT AND
ABANDONMENT DETAILS

Scale: AS SHOWN Date: APRIL 2011 DWG-26.2A

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- LEGEND:**
- EXISTING FENCE
 - ▭ EXISTING STRUCTURE OR ROAD
 - ⊙ EXISTING UTILITY POLE
 - ⊙* PROPOSED PARKING LOT LIGHTING
 - UGE PROPOSED UNDERGROUND ELECTRICAL CONDUIT
 - OHW PROPOSED OVERHEAD ELECTRICAL LINES
 - ⊠ PROPOSED HAND HOLE
 - ⊙ PROPOSED UTILITY POLE WITH WEATHERHEAD

- NOTES:**
1. PARKING LOT LIGHT STANDARD BASIS OF DESIGN IS LITHONIA LIGHTING MODEL AS1 AREA LIGHT, 150W CERAMIC METAL HALIDE, TYPE III ASYMMETRIC DISTRIBUTION, PULSE START BALLAST, 20 FOOT MOUNTING HEIGHT. MOUNTED ON ALUMINUM POLE WITH CONCRETE BASE. CONTROLS TO INCLUDE INTEGRAL P.E. SENSORS ON EACH LIGHT STANDARD.
 2. STREET LIGHTING STANDARD TO BE 150W HPS COBRA HEAD BY GENERAL ELECTRIC (OR EQUAL) (GRANGER ITEM #4WY43). MOUNTED ON WOOD POLES OVERHEAD CONNECTORS TO USE #6 ALUMINUM TRIPLEX SERVICE CABLE (VOLUTA). CABLE TO BE MOUNTED USING STANDARD PORCELAIN SPOOL STANDOFFS 30 FEET FROM GRADE LEVEL. POLES AND ELECTRIC TO BE INSTALLED BY ENACT. LIGHTS TO BE SUPPLIED AND INSTALLED BY VILLAGE.
 3. CONTRACTOR RESPONSIBLE FOR PROVIDING ALL COMPONENTS FOR THE INSTALLATION OF A COMPLETE SYSTEM MEETING ALL APPLICABLE CODES AND STANDARDS INCLUDING CONFIRMING LOCATION OF SOURCE OF POWER. POWER SOURCE FOR LIGHTS ALONG STREETS TO USE OVERHEAD DISTRIBUTION FROM EXISTING POLE ON NORTH SIDE OF WYDLER PLACE (SHOWN). POWER SOURCE FOR LIGHTS IN PARKING AREA TO USE UNDERGROUND DISTRIBUTION FROM THE OFFICE BUILDING. EXACT LOCATION OF CONNECTION TO BE DETERMINED IN FIELD AND COORDINATED WITH BUILDING OWNER. SERVICE TO BE SINGLE PHASE 208, 240, 277V, AND 20A.
 4. BURIED CONDUIT TO BE (1) 1-1/2" SCHEDULE 80. BURIAL DEPTH TO BE AT LEAST 24". WIRE SIZE: #10 AWG GND SIZE: #10 AWG

LIGHTING LOADS	
STREET (6) @ 208W	1248W
PARKING (4) @ 208W	832W

NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	DMB	JAS	9/2013	REVISED SITE LIGHTING LAYOUT
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

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 DRAWN BY: **RAL**
 CHECKED BY: **EWK**
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THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

SITE LIGHTING PLAN

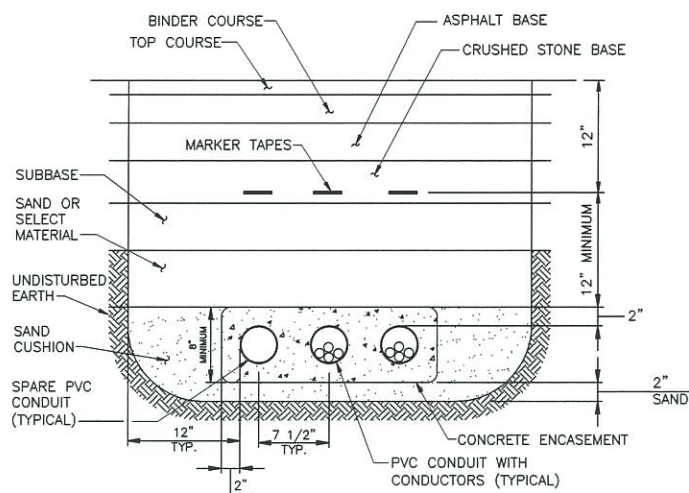
Scale: AS SHOWN Date: APRIL 2011 **DWG-27**

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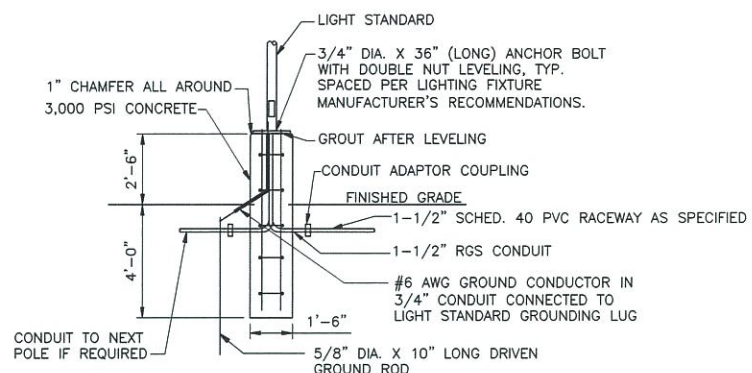
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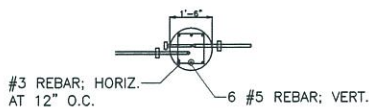
NOTE:
NUMBER AND SIZE OF CONDUITS AS NOTED ON DWG-27.

**TYPICAL CONDUIT TRENCH
DETAIL IN PAVEMENT AREA**

NOT TO SCALE



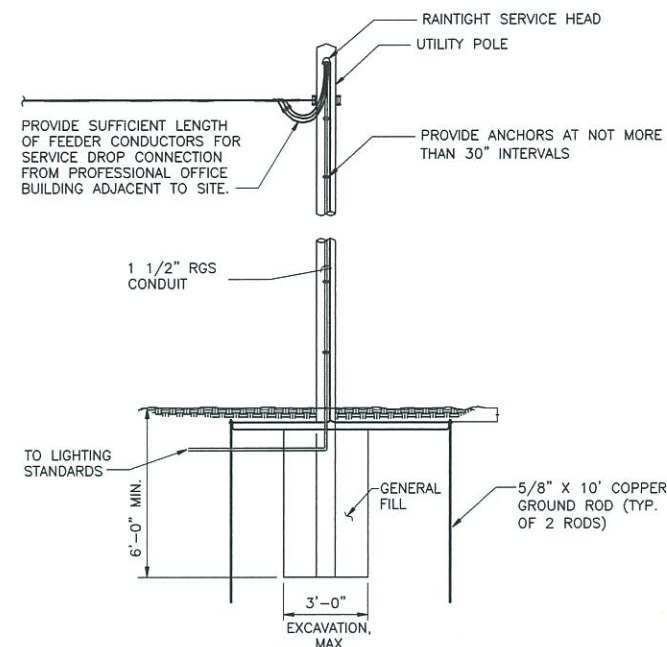
ELEVATION



PLAN

LIGHT POLE BASE DETAIL

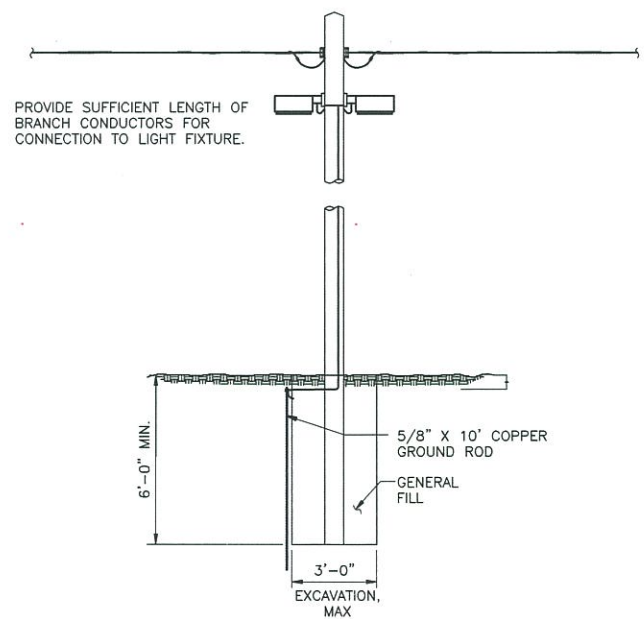
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SERVICE RISER DETAIL

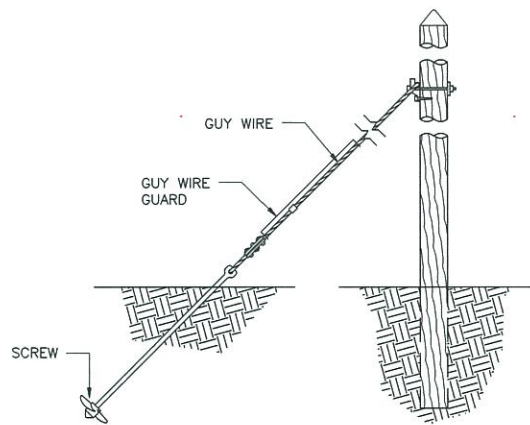
NOT TO SCALE

NOTE:
FOR PROPOSED OVERHEAD POWER FEED FROM NEARBY BUILDING, SOURCE OF POWER TO BE CONFIRMED WITH OWNER.



TYPICAL TEMPORARY WOOD POLE AND LIGHT FIXTURE

NOT TO SCALE



TYPICAL GUY WIRE DETAIL

NOT TO SCALE

NOTES:

- 1. SAND AND SELECT MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF SPECIFICATION SECTION 02221.
- 2. FOR POLE EXCAVATION AND BURIAL REQUIREMENTS, REFER TO SPECIFICATION SECTION 02300.

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DESIGNED BY: DB
 DRAWN BY: RAL
 CHECKED BY: EWK
 PROJ. MGR. JAS

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STATE OF NEW YORK
 SEAL OF WALTER J. WISNIEWSKI
 LICENSED PROFESSIONAL ENGINEER
 No. 68238

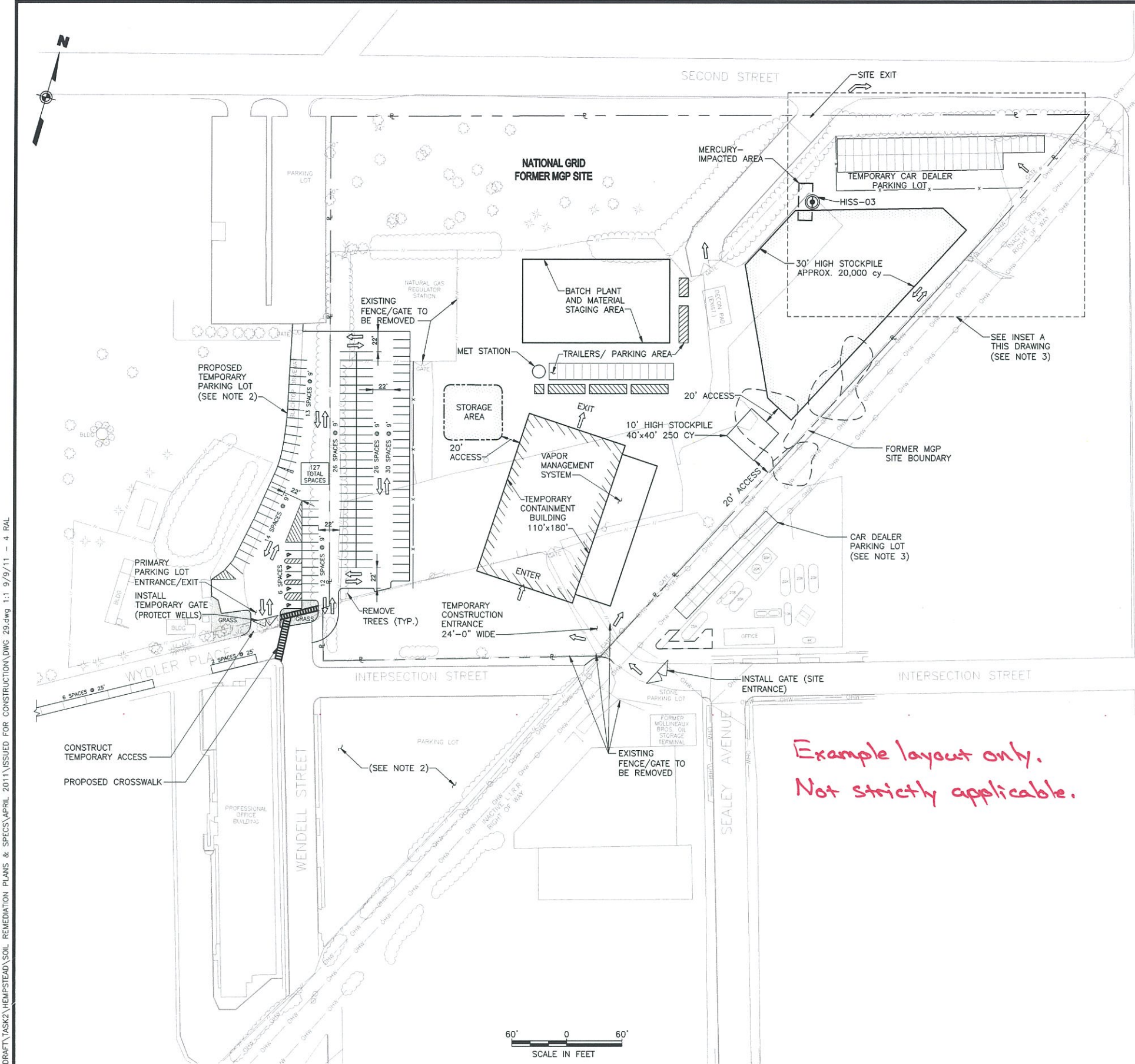
THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

ELECTRICAL DETAILS

Scale: AS SHOWN Date: APRIL 2011 DWG-28

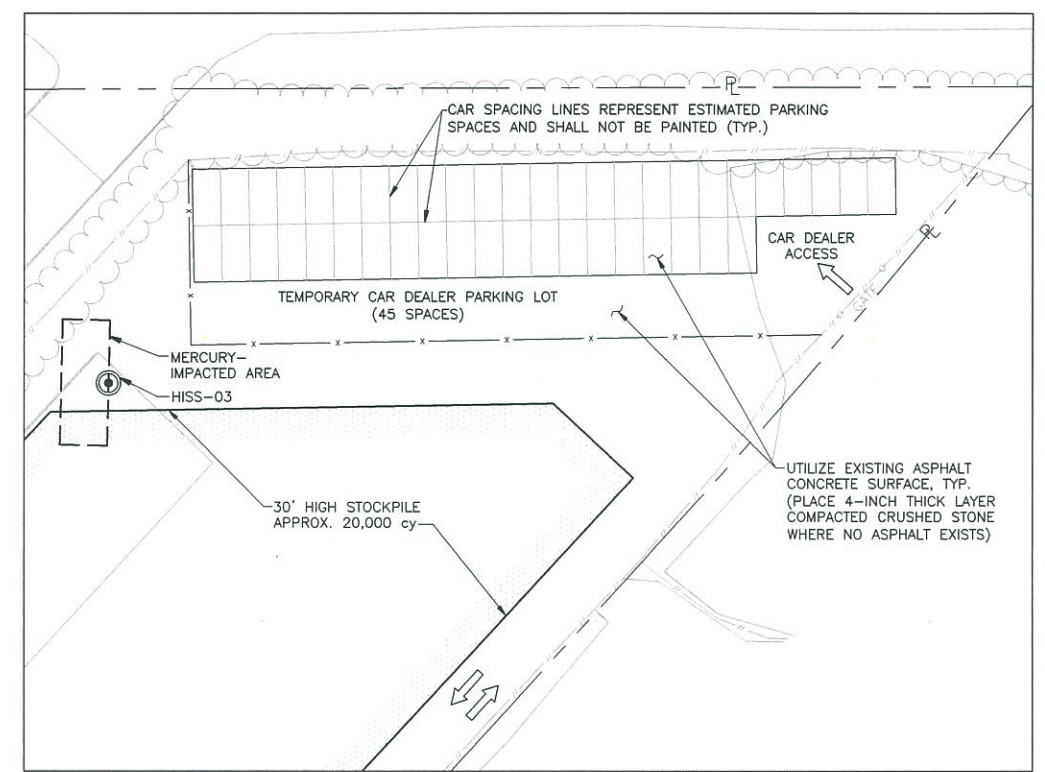
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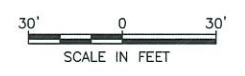
LEGEND:

- PROPOSED TEMPORARY FENCE WITH VISUAL BARRIER
- EXISTING FENCE
- LOCATION OF EXISTING STRUCTURE OR ROAD



*Example layout only.
Not strictly applicable.*

**INSET A
TEMPORARY CAR DEALER
PARKING LOT**



- NOTES:**
1. THIS DRAWING IS PRESENTED ONLY AS AN EXAMPLE LAYOUT OF TEMPORARY FACILITIES AND IS NOT INTENDED TO COMPLETELY SHOW ALL NECESSARY FACILITIES THAT MAY BE REQUIRED.
 2. THE PROFESSIONAL OFFICE BUILDING PARKING LOT AREA IS NOT INTENDED TO BE USED FOR TEMPORARY FACILITIES LAYOUT AND SHALL BE RESTORED AS SOON AS POSSIBLE AFTER POB-AREA REMEDIATION IS COMPLETE. USE OF THE POB PARKING LOT AREA FOR SUCH PURPOSE WILL ONLY BE CONSIDERED IF APPROVED IN WRITING BY NATIONAL GRID. THE PROPOSED TEMPORARY PARKING LOT, ONCE PUT OUT OF SERVICE, MAY BE CONSIDERED FOR TEMPORARY FACILITIES.
 3. THE SHOWN TEMPORARY CAR DEALER PARKING LOT IS INTENDED TO PROVIDE LIMITED PARKING AND WILL REQUIRE CONSTRUCTION SEQUENCING, PARTICULARLY AROUND/WITHIN LIRR ROW, THAT WILL MINIMIZE THE CAR DEALER'S NEED FOR TEMPORARY PARKING.

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NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	RJP	JAS	8/2011	NOTE REVISED
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

DESIGNED BY: **EWK**
 DRAWN BY: **RAL**
 CHECKED BY: **RJP**
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 175 EAST OLD COUNTRY ROAD
 HICKSVILLE, NEW YORK 11801

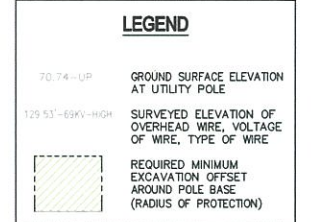
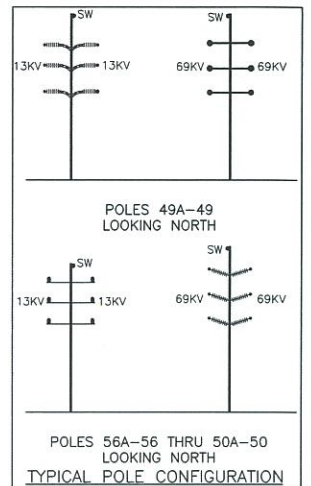
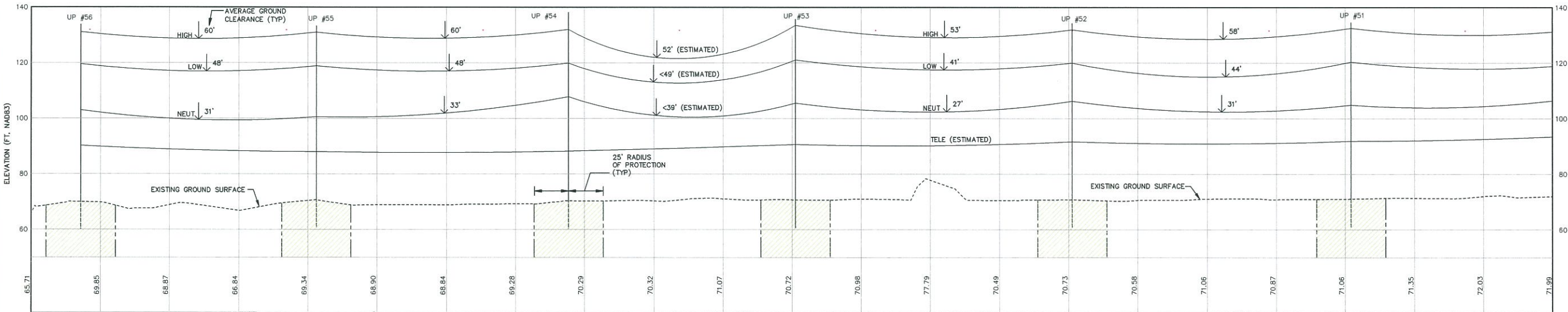
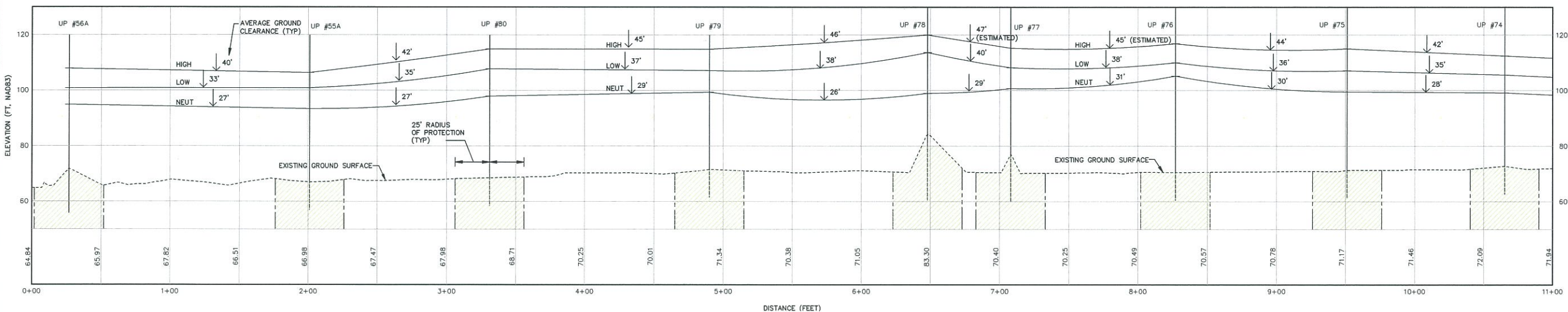
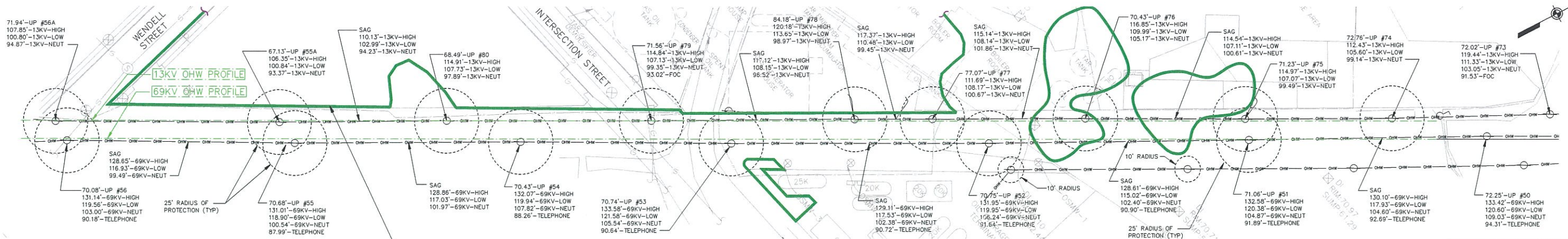
STATE OF NEW YORK
 REGISTERED PROFESSIONAL ENGINEER
 No. 68238

THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

EXAMPLE TEMPORARY FACILITIES LAYOUT

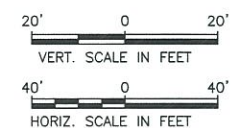
Scale: AS SHOWN Date: APRIL 2011 DWG-29

J:\1176095\0000\CAD\DRAWING\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 30.dwg, DWG 30, 1:1, 9/9/11 -2-RAL



NOTES:

- OVERHEAD WIRE SURVEY INFORMATION BASED ON A PLAN ENTITLED "OVERHEAD WIRES, MAP OF THE HEMPSTEAD INTERSECTION STREET & FORMER MANUFACTURE GAS PLANT SITE", SHEET S-001, DATED JANUARY 2008, BY URS CORPORATION, BUFFALO, NY.
- SOURCE OF POLE NOS. FROM DWG. NO. HLF69-FIT-01001-10, "ROUTE PLAN EAST GARDEN CITY SUBST. TO ATLANTIC AVE. SHEET 3 OF 3" BY NATIONAL GRID ENGINEERING AND SURVEY, INC., REVISED DATE OF OCTOBER, 2008.



THIS DRAWING CONTAINS FEATURES INTENDED TO BE PRINTED IN COLOR AS SHOWN ON ORIGINAL CONTRACT DRAWINGS. REPRODUCTION IN BLACK AND WHITE MAY OBSCURE THE INTENDED EFFECT OF THE COLOR FEATURES.

ISSUED FOR CONSTRUCTION

REVISIONS	
NO.	DESCRIPTION
1	RJP JAS 8/2011 ISSUED FOR CONSTRUCTION

DESIGNED BY: **DB**
 DRAWN BY: **RAL**
 CHECKED BY: **EWK**
 PROJ. MGR. **JAS**

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 JOB NO. 11176098



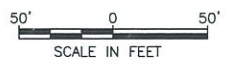
nationalgrid
 175 EAST OLD COUNTRY ROAD
 HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
 INTERSECTION STREET
 FORMER MANUFACTURED GAS
 PLANT SITE

EXISTING LIPA OVERHEAD WIRES
 PLAN AND PROFILE
 LIRR RIGHT-OF-WAY
 Scale: AS SHOWN Date: APRIL 2011 DWG-30

This drawing was computer generated. It is not to be used for any other purpose without the approval of the original author.

Only copies from the original of this drawing shall be considered valid for construction purposes.



- NOTE:**
- FOR NOTES, SEE DRAWING DWG-BA.
 - SEE DWG-32A FOR EACH NODE'S COORDINATES, SURFACE ELEVATION, BOTTOM ELEVATION (WHERE APPROPRIATE), TOP OF SOLIDIFICATION ELEVATION AND BOTTOM OF SOLIDIFICATION ELEVATION.

THIS DRAWING CONTAINS FEATURES INTENDED TO BE PRINTED IN COLOR AS SHOWN ON ORIGINAL CONTRACT DRAWINGS. REPRODUCTION IN BLACK AND WHITE MAY OBSCURE THE INTENDED EFFECT OF THE COLOR FEATURES.

ISSUED FOR CONSTRUCTION

J:\1175065-0000\CAD\DRAWING\TASKS\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 31A.dwg, DWG 31A, 1:1, 9/9/11 -1-ELB

REVISIONS				
NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

DESIGNED BY: GJB
 DRAWN BY: RAL
 CHECKED BY: RJP
 PROJ. MGR. JAS

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THE HEMPSTEAD
 INTERSECTION STREET
 FORMER MANUFACTURED GAS
 PLANT SITE

SOLIDIFICATION TOP/BOTTOM LAYOUT PLAN	
Scale: AS SHOWN	Date: APRIL 2011
DWG-31A	

NODE TABLE

Table with columns: NODE, NORTHING, EASTING, EXISTING GRADE, BOTTOM OF EXCAVATION, TOP OF SOLIDIFICATION, BOTTOM OF SOLIDIFICATION. Lists node coordinates and elevations for various nodes A1 through AJ2.

For actual, refer to QA/QC submittals to URS.

NOTE:

- 1. FOR LOCATION OF NODES SEE DWG-31A.
2. BOTTOM OF EXCAVATION DEPTHS AND TOP OF SOLIDIFICATION DEPTHS FOR POLYGON AC AND E ARE SHOWN FOR THE CASE WHERE EXCAVATION OF THE DEEP POCKET AREA IS NECESSARY TO REACH BOTTOM OF SOLIDIFICATION DEPTH.

ISSUED FOR CONSTRUCTION

REVISIONS table with columns: NO., MADE BY, APPROVED BY, DATE, DESCRIPTION. Shows several revision entries.

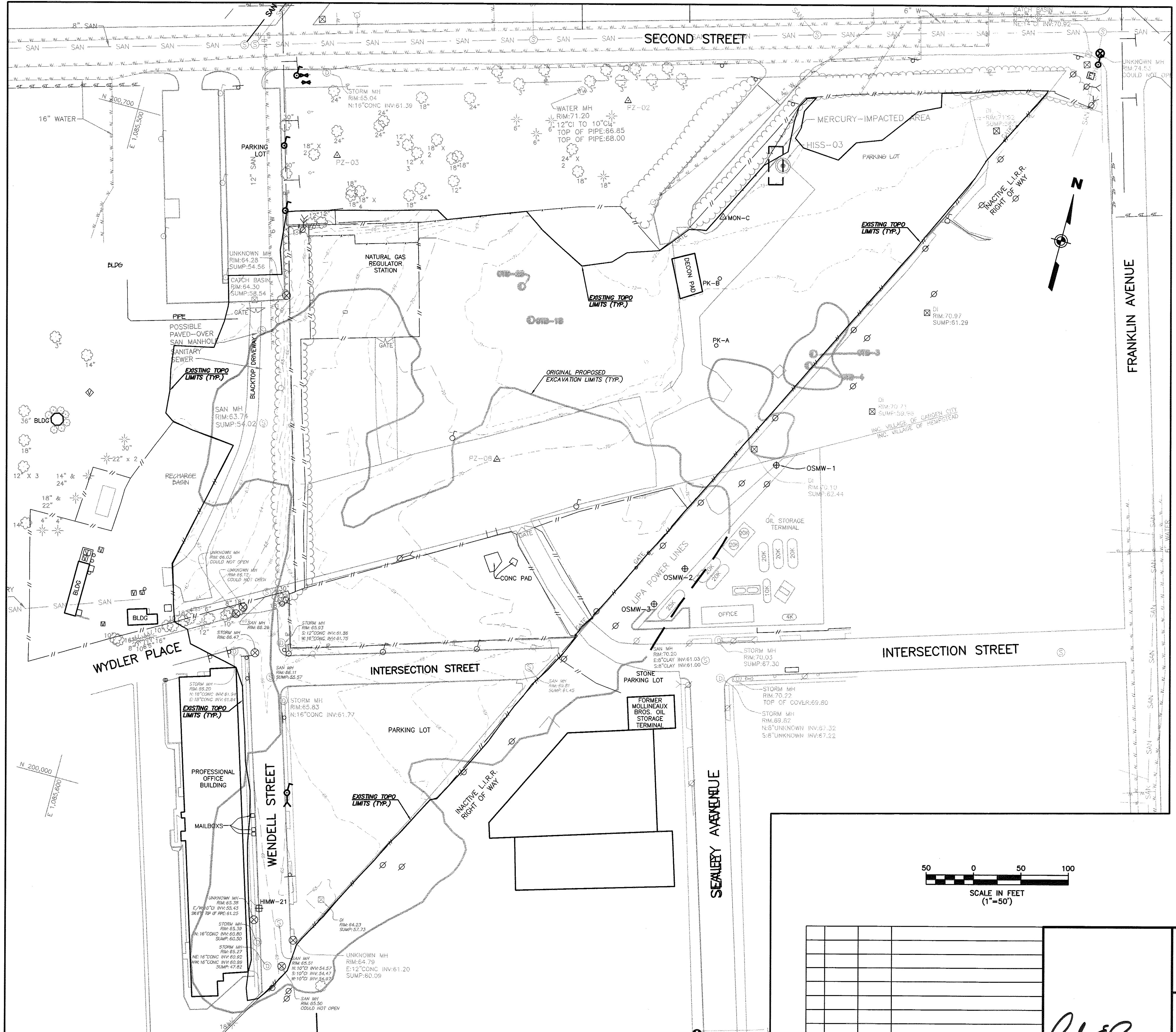
DESIGNED BY: GJB
DRAWN BY: RAL
CHECKED BY: RJP
PROJ. MGR. JAS
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77 Goodell Street, Buffalo, New York 14203

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

PLAN A: DSM-ONLY SOLIDIFICATION TOP/BOTTOM LAYOUT TABLE
Scale: AS SHOWN Date: APRIL 2011 DWG-32A

11/17/2009 09:00:00 CAD DRAFTY/TASK2/HEMPSTEAD/STL REMEDIATION PLANS & SPECS/APRIL 2011/ISSUED FOR CONSTRUCTION/REVISED NOVEMBER/DWG 32A.dwg, DWG 32A, 12, 11/10/11 -- 1 -- EBL



GENERAL NOTES

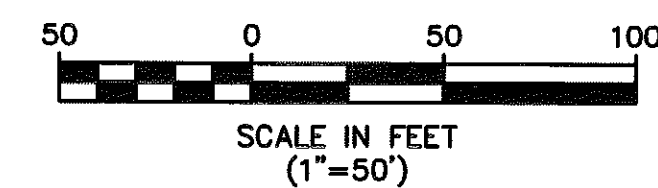
1. THE SOLE PURPOSE OF THIS PLAN IS TO SHOW THE EXISTING TOPOGRAPHIC CONDITIONS AT THE PROJECT SITE.
2. EXISTING TOPOGRAPHIC ELEVATIONS AND LOCATIONS OBTAINED BY MASER CONSULTING, PA ON DECEMBER 13 & 14, 2011.
3. HORIZONTAL DATUM NAD 1983, VERTICAL DATUM NAVD 1988.

REFERENCE

1. ALL OTHER TOPOGRAPHY OUTSIDE OF THE REMEDIATION AREAS BASED ON PLANS ENTITLED, "IN-SITU SOLIDIFICATION FOR THE HEMPSTEAD INTERSECTION STREET, FORMER MANUFACTURED GAS PLANT SITE, VILLAGES OF HEMPSTEAD AND GARDEN CITY, NASSAU COUNTY, NEW YORK, PREPARED BY URS, FOR NATIONAL GRID, DATED APRIL 2011.

LEGEND

- Ø UTILITY POLE
- LP LIGHT POLE
- ⊕ SANITARY MANHOLE
- ⊙ STORM MANHOLE
- ⊙ UNKNOWN MANHOLE
- ⊙ FIRE HYDRANT
- ⊙ WV WATER VALVE
- ⊙ GV GAS VALVE
- GAS — GAS MAIN
- W — WATER MAIN
- SAN — SANITARY MAIN
- ST — ST — STORM PIPE
- O2 — OXYGEN PIPELINE
- OHW — OVERHEAD WIRES
- E — ELECTRIC LINE
- T/E — TELEPHONE LINE
- X — FENCE
- GR GRATE
- TC TOP OF CURB
- MON-C CONCRETE MONUMENT



REV.	DATE	DRAWN BY	DESCRIPTION
2.	7/10/14	RTH	GENERAL REVISIONS PER URS REVIEW LETTER 7/7/14
1.	3/12/14	RTH	GENERAL REVISIONS

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 Planners • Surveyors • Landscape Architects
 State of N.J. Certificate of Authorization: 246427986500

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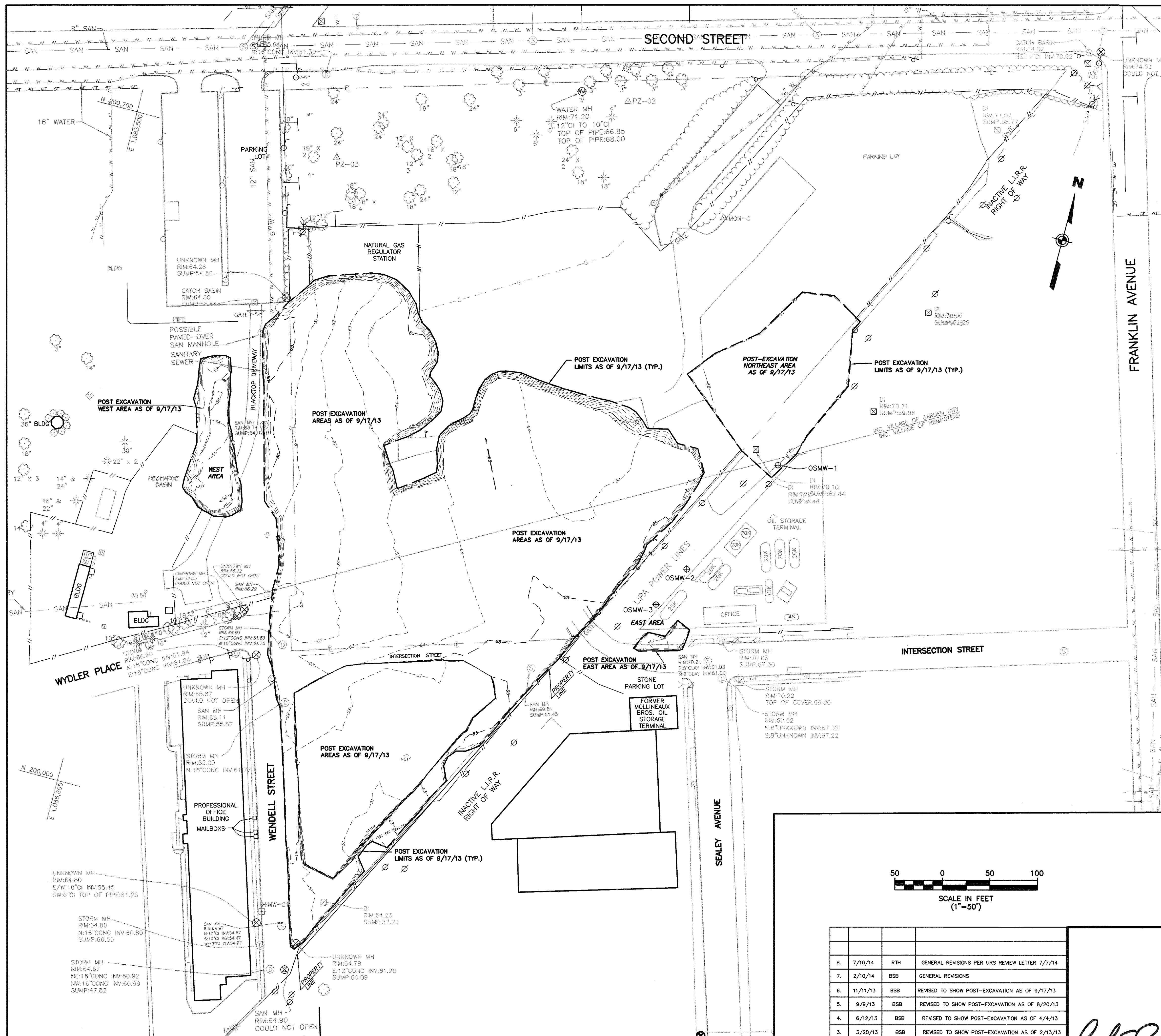
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 Lopon, N.J.
 Mt. Arlington, N.J.
 Chestnut Ridge, N.Y.
 Newburgh, N.Y.
 Bethlehem, PA.

**EXISTING TOPOGRAPHIC SURVEY
 IN-SITU SOLIDIFICATION FOR THE
 HEMPSTEAD INTERSECTION ST. FORMER MGP SITE**
 FOR
ENTACT, LLC
 VILLAGE OF HEMPSTEAD NASSAU COUNTY NEW YORK

JOB NUMBER: 11000977A
 SCALE: 1"=50'
 INDEX NUMBER: MASU000754
 SHEET NUMBER: 1 of 9

DATE: FEB. 29, 2012
 LATEST REVISION: JULY 10, 2014
 DESIGN BY: BSB

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VOLUME NOTES

POST-EXCAVATION TOTAL VOLUME AS OF 2/21/12 = 4,030 CU.YDS. ±
 POST-EXCAVATION TOTAL VOLUME AS OF 5/22/12 = 13,620 CU.YDS. ±
 POST-EXCAVATION TOTAL VOLUME AS OF 8/6/12 = 22,567 CU.YDS. ±
 POST-EXCAVATION TOTAL VOLUME AS OF 2/13/13 = 24,086 CU.YDS. ±
 POST-EXCAVATION TOTAL VOLUME AS OF 4/4/13 = 25,873 CU.YDS. ±
 POST-EXCAVATION TOTAL VOLUME AS OF 8/20/13 = 46,080 CU.YDS. ±
 POST-EXCAVATION TOTAL VOLUME AS OF 9/17/13 = 48,270 CU.YDS. ±

VOLUME QUANTITY CALCULATIONS

DIFFERENCE IN VOLUMES FROM 2/21/12 TO 5/22/12 = 9,590 CU.YDS. ±
 DIFFERENCE IN VOLUMES FROM 5/22/12 TO 8/6/12 = 8,947 CU.YDS. ±
 DIFFERENCE IN VOLUMES FROM 8/6/12 TO 2/13/13 = 1,519 CU.YDS. ±
 DIFFERENCE IN VOLUMES FROM 2/13/13 TO 4/4/13 = 1,787 CU.YDS. ±
 DIFFERENCE IN VOLUMES FROM 4/4/13 TO 8/20/13 = 20,207 CU.YDS. ±
 DIFFERENCE IN VOLUMES FROM 8/20/13 TO 9/17/13 = 2,190 CU.YDS. ±

GENERAL NOTES

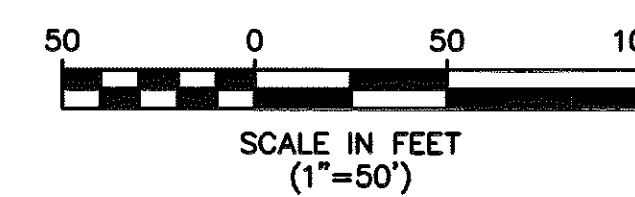
1. THE SOLE PURPOSE OF THIS PLAN IS TO SHOW THE POST-EXCAVATION ELEVATIONS AT THE PROJECT SITE.
2. POST-EXCAVATION ELEVATIONS OBTAINED BY MASER CONSULTING, PA ON 2/21/12, 5/22/12, 8/6/12, 4/4/13, 6/28/13, 8/15/13, 8/20/13, 9/4/13, & 9/17/13. POST-EXCAVATION ELEVATIONS OBTAINED BY ENTACT ON 2/13/13, 8/5/13, & 9/16/13.
3. HORIZONTAL DATUM NAD 1983, VERTICAL DATUM NAVD 1988.

REFERENCE

1. ALL OTHER TOPOGRAPHY OUTSIDE OF THE REMEDIATION AREAS BASED ON PLANS ENTITLED, "IN-SITU SOLIDIFICATION FOR THE HEMPSTEAD INTERSECTION STREET, FORMER MANUFACTURED GAS PLANT SITE, VILLAGES OF HEMPSTEAD AND GARDEN CITY, NASSAU COUNTY, NEW YORK, PREPARED BY URS, FOR NATIONAL GRID, DATED APRIL 2011.

LEGEND

⊕	UTILITY POLE
⊙	LIGHT POLE
⊗	SANITARY MANHOLE
⊙	STORM MANHOLE
⊗	UNKNOWN MANHOLE
⊕	FIRE HYDRANT
⊙	WATER VALVE
⊙	GAS VALVE
—	GAS MAIN
—	WATER MAIN
—	SANITARY MAIN
—	STORM PIPE
—	OXYGEN PIPELINE
—	OVERHEAD WIRES
—	ELECTRIC LINE
—	TELEPHONE LINE
—	FENCE
GR	GRATE
TC	TOP OF CURB
△	CONCRETE MONUMENT



REV.	DATE	DRAWN BY	DESCRIPTION
8.	7/10/14	RTH	GENERAL REVISIONS PER URS REVIEW LETTER 7/7/14
7.	2/10/14	BSB	GENERAL REVISIONS
6.	11/11/13	BSB	REVISED TO SHOW POST-EXCAVATION AS OF 9/17/13
5.	9/9/13	BSB	REVISED TO SHOW POST-EXCAVATION AS OF 8/20/13
4.	6/12/13	BSB	REVISED TO SHOW POST-EXCAVATION AS OF 4/4/13
3.	3/20/13	BSB	REVISED TO SHOW POST-EXCAVATION AS OF 2/13/13
2.	8/8/12	BSB	REVISED TO SHOW POST-EXCAVATION AS OF 8/6/12
1.	5/31/12	BSB	REVISED TO SHOW POST-EXCAVATION AS OF 5/22/12

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**POST-EXCAVATION SURVEY
 IN-SITU SOLIDIFICATION FOR THE
 HEMPSTEAD INTERSECTION ST. FORMER MGP SITE**

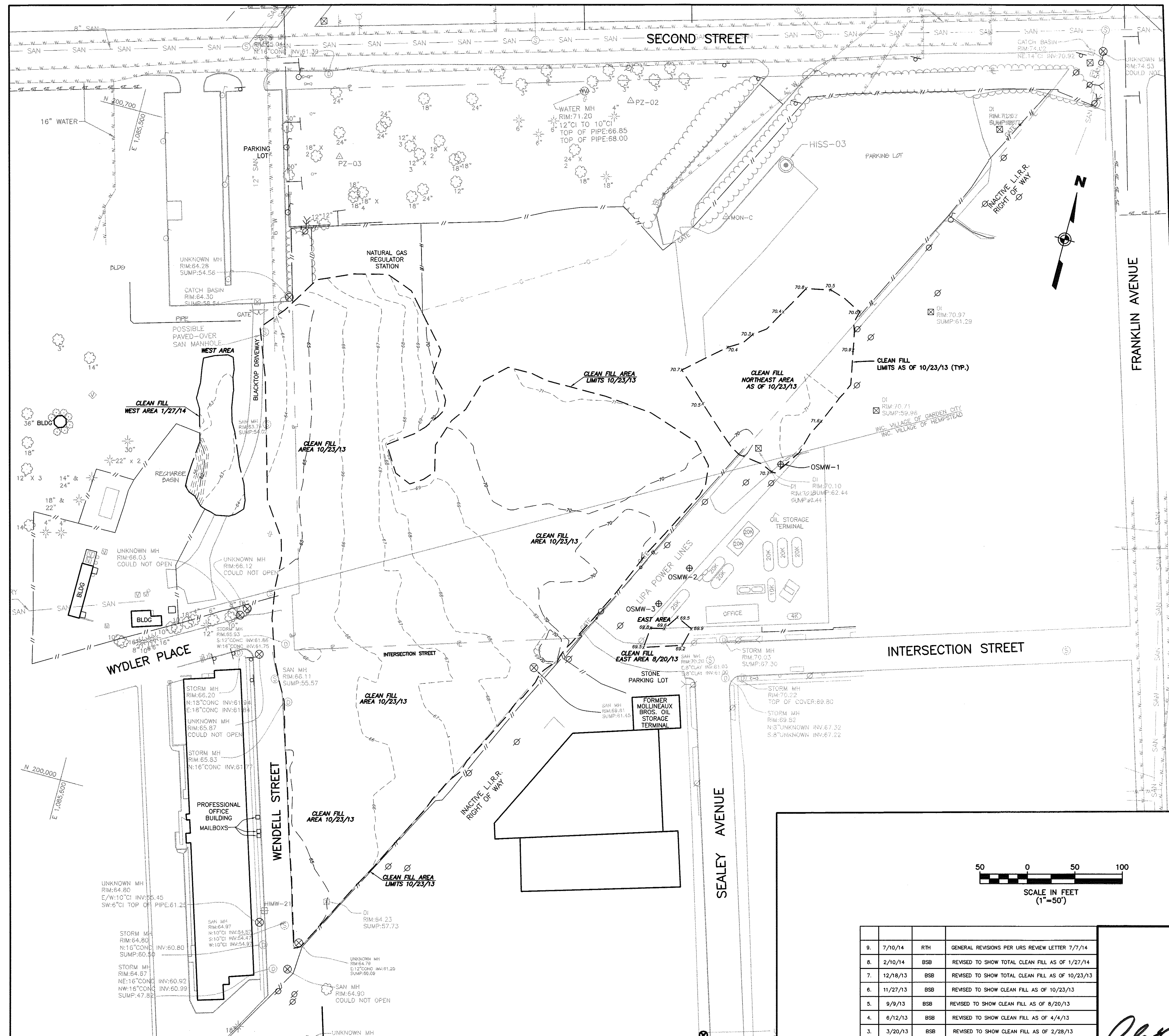
FOR
ENTACT, LLC

VILLAGE OF HEMPSTEAD NASSAU COUNTY NEW YORK

JOB NUMBER: 11000977A
 SCALE: 1"=50'
 INDEX NUMBER: MASU000770
 SHEET NUMBER: 2 of 9

DATE: FEB. 29, 2012
 LATEST REVISION: JULY 10, 2014
 DESIGN BY: BSB

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VOLUME QUANTITY NOTES

CLEAN FILL VOLUME AS OF 2/21/12 = 479 CU.YDS. ±
 CLEAN FILL VOLUME AS OF 5/22/12 = 2,088 CU.YDS. ±
 CLEAN FILL VOLUME AS OF 8/6/12 = 3,465 CU.YDS. ±
 CLEAN FILL VOLUME AS OF 2/28/13 = 3,734 CU.YDS. ±
 CLEAN FILL VOLUME AS OF 4/4/13 = 3,902 CU.YDS. ±
 CLEAN FILL VOLUME AS OF 10/23/13 = 39,292 CU.YDS. ±
 CLEAN FILL VOLUME AS OF 1/27/14 = 40,543 CU.YDS. ±

VOLUME QUANTITY CALCULATIONS

DIFFERENCE IN VOLUMES FROM 2/21/12 TO 5/22/12 = 1,609 CU.YDS. ±
 DIFFERENCE IN VOLUMES FROM 5/22/12 TO 8/6/12 = 1,377 CU.YDS. ±
 DIFFERENCE IN VOLUMES FROM 8/6/12 TO 2/28/13 = 269 CU.YDS. ±
 DIFFERENCE IN VOLUMES FROM 2/28/13 TO 4/4/13 = 168 CU.YDS. ±
 DIFFERENCE IN VOLUMES FROM 4/4/13 TO 10/23/13 = 35,390 CU.YDS. ±
 DIFFERENCE IN VOLUMES FROM 10/23/13 TO 1/27/14 = 1,251 CU.YDS. ±

GENERAL NOTES

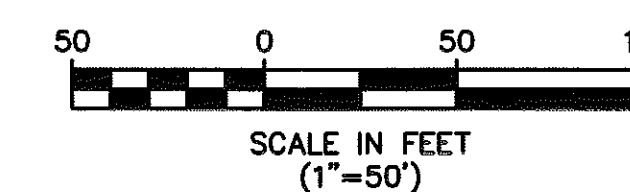
1. THE SOLE PURPOSE OF THIS PLAN IS TO SHOW THE CLEAN FILL ELEVATIONS AT THE PROJECT SITE.
2. CLEAN FILL ELEVATIONS OBTAINED BY MASER CONSULTING, PA ON 2/21/12, 5/22/12, 8/6/12, 2/28/13, 4/4/13, 6/28/13, 8/15/13, 8/20/13, 10/23/13 & 1/27/14. CLEAN FILL ELEVATIONS OBTAINED BY ENTACT ON 8/5/13.
3. HORIZONTAL DATUM NAD 1983, VERTICAL DATUM NAVD 1988.

REFERENCE

1. ALL OTHER TOPOGRAPHY OUTSIDE OF THE REMEDIATION AREAS BASED ON PLANS ENTITLED, "IN-SITU SOLIDIFICATION FOR THE HEMPSTEAD INTERSECTION STREET, FORMER MANUFACTURED GAS PLANT SITE, VILLAGES OF HEMPSTEAD AND GARDEN CITY, NASSAU COUNTY, NEW YORK, PREPARED BY URS, FOR NATIONAL GRID, DATED APRIL 2011.

LEGEND

- ⊕ UTILITY POLE
- ⊙ LIGHT POLE
- ⊙ SANITARY MANHOLE
- ⊙ STORM MANHOLE
- ⊙ UNKNOWN MANHOLE
- ⊙ FIRE HYDRANT
- ⊙ WV WATER VALVE
- ⊙ GV GAS VALVE
- GAS — GAS MAIN
- W — WATER MAIN
- SAN — SANITARY MAIN
- ST — ST — STORM PIPE
- O2 — OXYGEN PIPELINE
- OW — OVERHEAD WIRES
- E — ELECTRIC LINE
- T/E — TELEPHONE LINE
- X — FENCE
- GR GRADE
- TC TOP OF CURB
- △ MON-C CONCRETE MONUMENT



REV.	DATE	DRAWN BY	DESCRIPTION
9.	7/10/14	RTH	GENERAL REVISIONS PER URS REVIEW LETTER 7/7/14
8.	2/10/14	BSB	REVISED TO SHOW TOTAL CLEAN FILL AS OF 1/27/14
7.	12/18/13	BSB	REVISED TO SHOW TOTAL CLEAN FILL AS OF 10/23/13
6.	11/27/13	BSB	REVISED TO SHOW CLEAN FILL AS OF 10/23/13
5.	9/9/13	BSB	REVISED TO SHOW CLEAN FILL AS OF 8/20/13
4.	8/12/13	BSB	REVISED TO SHOW CLEAN FILL AS OF 4/4/13
3.	3/20/13	BSB	REVISED TO SHOW CLEAN FILL AS OF 2/28/13
2.	8/8/12	BSB	REVISED TO SHOW CLEAN FILL AS OF 8/6/12
1.	5/31/12	BSB	REVISED TO SHOW CLEAN FILL AS OF 5/22/12

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MASER
 Consulting, Municipal & Environmental Engineers
 Planners • Surveyors • Landscape Architects
 State of N.J. Certificate of Authorization: 246A27986500

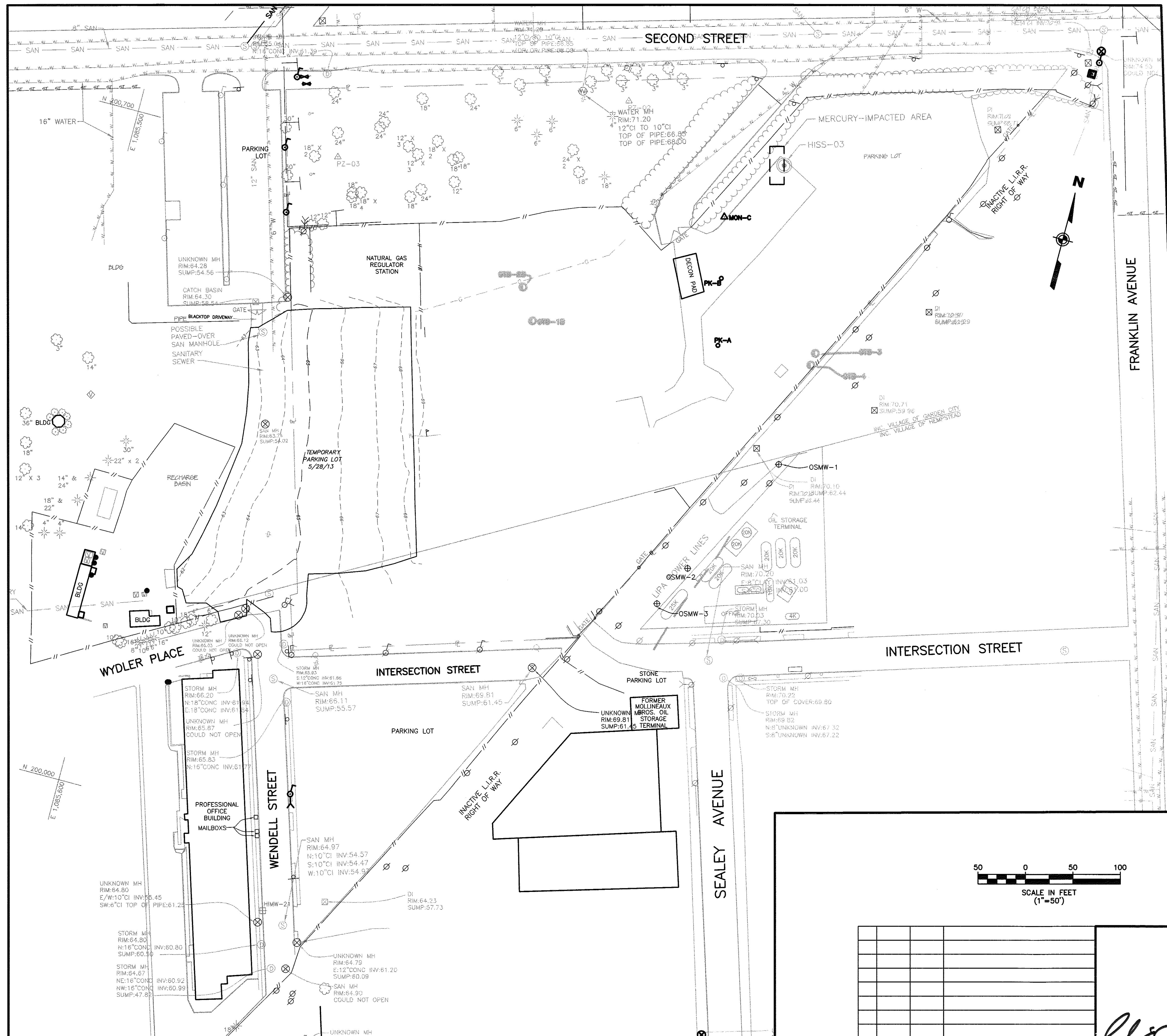
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 Newburgh, N.Y.
 Bethelham, PA.

**CLEAN FILL AS-BUILT SURVEY
 IN-SITU SOLIDIFICATION FOR THE
 HEMPSTEAD INTERSECTION ST. FORMER MGP SITE**
 FOR
ENTACT, LLC

JOB NUMBER: 11000977A	DATE: FEB. 29, 2012
SCALE: 1"=50'	LATEST REVISION: JULY 10, 2014
INDEX NUMBER: MASJ000775	DESIGN BY: BSB
SHEET NUMBER: 3	of 9

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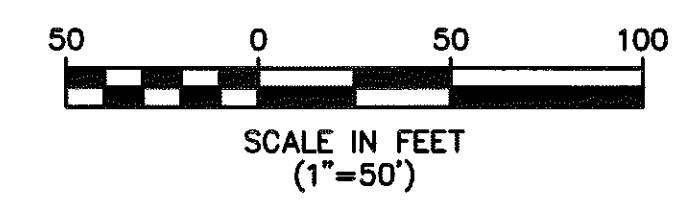
1. THE SOLE PURPOSE OF THIS PLAN IS TO SHOW THE TEMPORARY PARKING LOT AT THE PROJECT SITE.
2. TEMPORARY PARKING LOT LOCATIONS AND ELEVATIONS WERE OBTAINED BY MASER CONSULTING, PA ON 5/28/13.
3. HORIZONTAL DATUM NAD 1983, VERTICAL DATUM NAVD 1988.

REFERENCE

1. ALL OTHER TOPOGRAPHY OUTSIDE OF THE REMEDIATION AREAS BASED ON PLANS ENTITLED, "IN-SITU SOLIDIFICATION FOR THE HEMPSTEAD INTERSECTION STREET, FORMER MANUFACTURED GAS PLANT SITE, VILLAGES OF HEMPSTEAD AND GARDEN CITY, NASSAU COUNTY, NEW YORK, PREPARED BY URS, FOR NATIONAL GRID, DATED APRIL 2011.

LEGEND

- ⊙ UTILITY POLE
- ⊙ LIGHT POLE
- ⊙ SANTARY MANHOLE
- ⊙ STORM MANHOLE
- ⊙ UNKNOWN MANHOLE
- ⊙ FIRE HYDRANT
- ⊙ WV WATER VALVE
- ⊙ GV GAS VALVE
- GAS — GAS MAIN
- W — WATER MAIN
- SAN — SANTARY MAIN
- ST — ST — STORM PIPE
- O2 — OXYGEN PIPELINE
- OHW — OVERHEAD WIRES
- E — ELECTRIC LINE
- T/E — TELEPHONE LINE
- X — FENCE
- GR GRATE
- TC TOP OF CURB
- ▲ MON-C CONCRETE MONUMENT



REV.	DATE	DRAWN BY	DESCRIPTION
1.	7/10/14	RTH	GENERAL REVISIONS PER URS REVIEW LETTER 7/7/14

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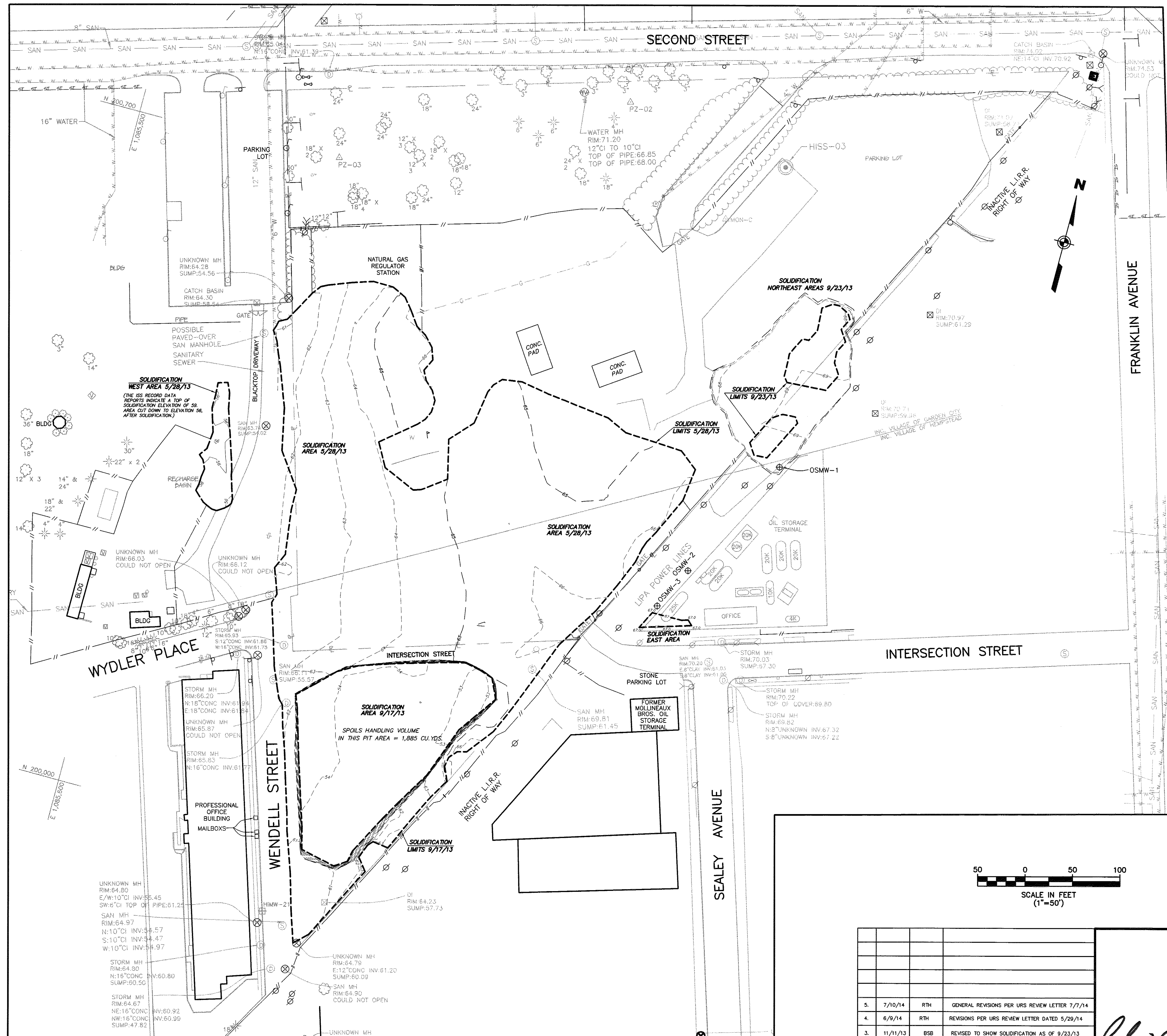
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**TEMPORARY PARKING LOT AS-BUILT SURVEY
 IN-SITU SOLIDIFICATION FOR THE
 HEMPSTEAD INTERSECTION ST. FORMER MGP SITE**
 FOR
ENTACT, LLC

JOB NUMBER: 11000977A	DATE: JUNE 12, 2013
SCALE: 1"=50'	LATEST REVISION: JULY 10, 2014
INDEX NUMBER: MASU001161	DESIGN BY: BSB
SHEET NUMBER: 4 of 9	

VILLAGE OF HEMPSTEAD NASSAU COUNTY NEW YORK



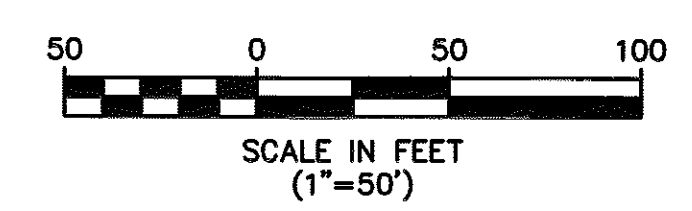
GENERAL NOTES

1. THE SOLE PURPOSE OF THIS PLAN IS TO SHOW THE TOP OF SOLIDIFICATION ELEVATIONS AT THE PROJECT SITE.
2. TOP OF SOLIDIFICATION ELEVATIONS OBTAINED BY MASER CONSULTING, PA ON 2/28/13, 4/4/13, 5/15/13, 5/28/13, 9/4/13, 9/17/13, & 9/23/13.
3. HORIZONTAL DATUM NAD 1983, VERTICAL DATUM NAVD 1988.

REFERENCE

1. ALL OTHER TOPOGRAPHY OUTSIDE OF THE REMEDIATION AREAS BASED ON PLANS ENTITLED, "IN-SITU SOLIDIFICATION FOR THE HEMPSTEAD INTERSECTION STREET, FORMER MANUFACTURED GAS PLANT SITE, VILLAGES OF HEMPSTEAD AND GARDEN CITY, NASSAU COUNTY, NEW YORK, PREPARED BY URS, FOR NATIONAL GRID, DATED APRIL 2011.

LEGEND	
⊗	UTILITY POLE
⊙	LIGHT POLE
⊕	SANITARY MANHOLE
⊗	STORM MANHOLE
⊗	UNKNOWN MANHOLE
⊕	FIRE HYDRANT
⊕	WATER VALVE
⊕	GAS VALVE
—	GAS MAIN
—	WATER MAIN
—	SANITARY MAIN
—	STORM PIPE
—	OXYGEN PIPELINE
—	OVERHEAD WIRES
—	ELECTRIC LINE
—	TELEPHONE LINE
—	FENCE
GR	GRATE
TC	TOP OF CURB
△	CONCRETE MONUMENT



REV.	DATE	DRAWN BY	DESCRIPTION
5.	7/10/14	RTH	GENERAL REVISIONS PER URS REVIEW LETTER 7/7/14
4.	6/9/14	RTH	REVISIONS PER URS REVIEW LETTER DATED 5/29/14
3.	11/11/13	BSB	REVISED TO SHOW SOLIDIFICATION AS OF 9/23/13
2.	9/9/13	BSB	REVISED TO SHOW SOLIDIFICATION AS OF 9/4/13
1.	6/12/13	BSB	REVISED TO SHOW SOLIDIFICATION AS OF 5/28/13

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**TOP OF SOLIDIFICATION AS-BUILT SURVEY
 IN-SITU SOLIDIFICATION FOR THE
 HEMPSTEAD INTERSECTION ST. FORMER MGP SITE**

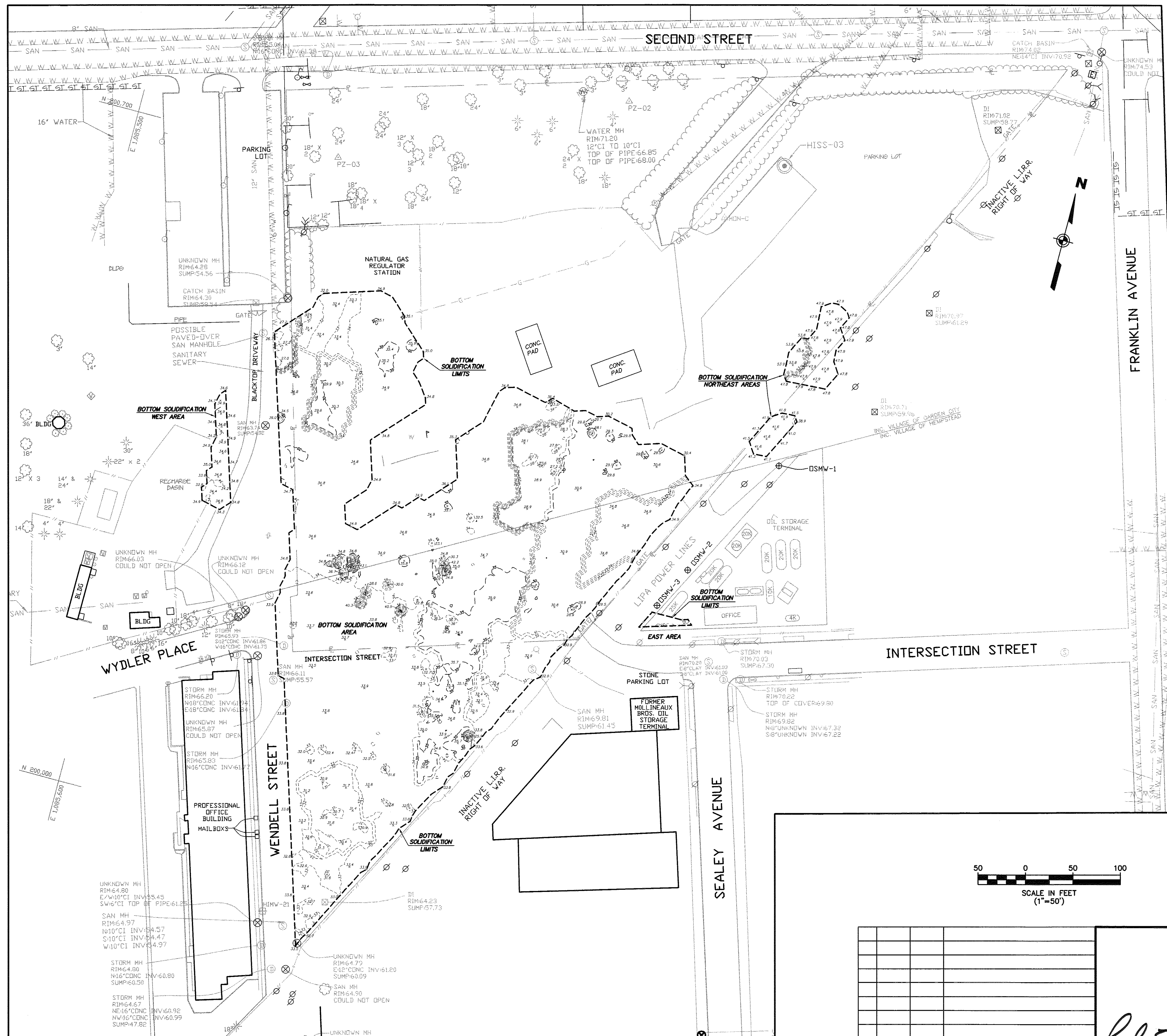
FOR
ENTACT, LLC

VILLAGE OF HEMPSTEAD NASSAU COUNTY NEW YORK

JOB NUMBER: 11000977A
 SCALE: 1"=50'
 INDEX NUMBER: MASU001075
 SHEET NUMBER: 5 of 9

DATE: MARCH 20, 2013
 LATEST REVISION: JULY 10, 2014
 DESIGN BY: BSB

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GENERAL NOTES

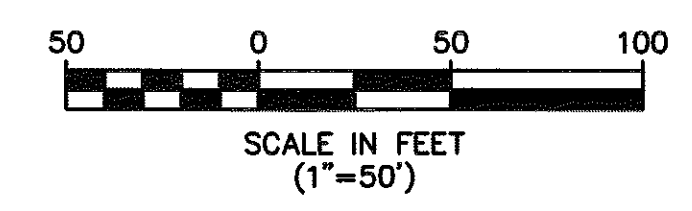
1. THE SOLE PURPOSE OF THIS PLAN IS TO SHOW THE BOTTOM OF SOLIDIFICATION ELEVATIONS AT THE PROJECT SITE.
2. BOTTOM OF SOLIDIFICATION ELEVATIONS OBTAINED BY ENACT, LLC.
3. HORIZONTAL DATUM NAD 1983, VERTICAL DATUM NAVD 1988.

REFERENCE

1. ALL OTHER TOPOGRAPHY OUTSIDE OF THE REMEDIATION AREAS BASED ON PLANS ENTITLED, "IN-SITU SOLIDIFICATION FOR THE HEMPSTEAD INTERSECTION STREET, FORMER MANUFACTURED GAS PLANT SITE, VILLAGES OF HEMPSTEAD AND GARDEN CITY, NASSAU COUNTY, NEW YORK, PREPARED BY URS, FOR NATIONAL GRID, DATED APRIL 2011.


LEGEND


- Ø UTILITY POLE
- LP LIGHT POLE
- SM SANITARY MANHOLE
- SM STORM MANHOLE
- SM UNKNOWN MANHOLE
- ⊕ FIRE HYDRANT
- WV WATER VALVE
- GV GAS VALVE
- GAS MAIN
- WATER MAIN
- SANITARY MAIN
- ST STORM PIPE
- O2 OXYGEN PIPELINE
- DW OVERHEAD WIRES
- E ELECTRIC LINE
- T/E TELEPHONE LINE
- X FENCE
- GR GRADE
- TC TOP OF CURB
- △ CONC CONCRETE MONUMENT



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REV.	DATE	DRAWN BY	DESCRIPTION
1.	7/10/14	RTH	REVISIONS PER URS REVIEW LETTER DATED 7/7/14


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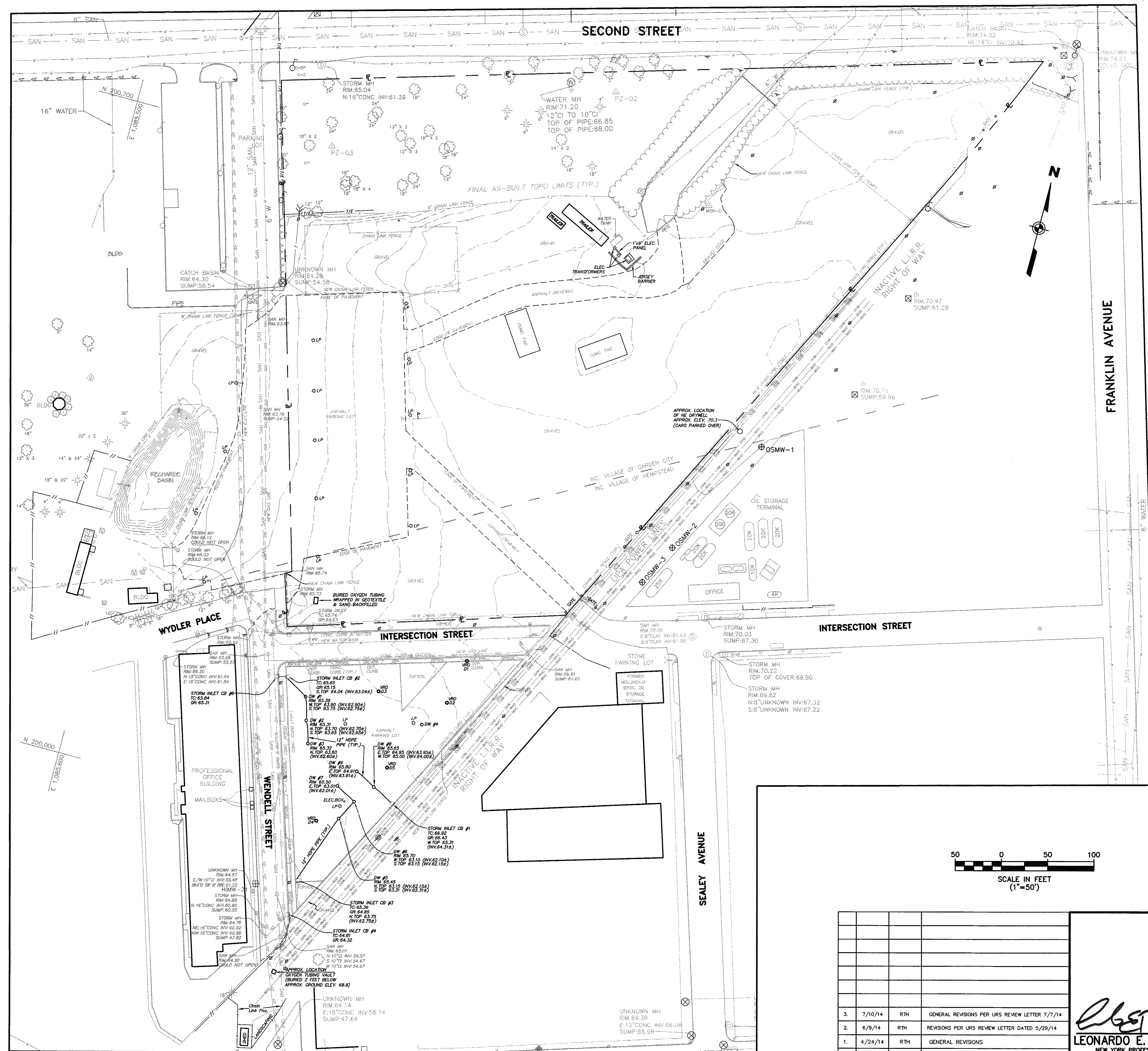
MASER
 Consulting, Municipal & Environmental Engineers
 Planners • Surveyors • Landscape Architects
 State of N.J. Certificate of Authorization: 246427986500

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 Chestnut Ridge, N.Y.
 Newburgh, N.Y.
 Bethlehem, PA.

BOTTOM OF SOLIDIFICATION AS-BUILT SURVEY
IN-SITU SOLIDIFICATION FOR THE
HEMPSTEAD INTERSECTION ST. FORMER MGP SITE
 FOR
ENACT, LLC
 VILLAGE OF HEMPSTEAD NASSAU COUNTY NEW YORK

JOB NUMBER: 11000977A	DATE: JUNE 16, 2014
SCALE: 1"=50'	LATEST REVISION: JULY 10, 2014
INDEX NUMBER: MASU001429	DESIGN BY: BSB
SHEET NUMBER: 6	of 9



GENERAL NOTES

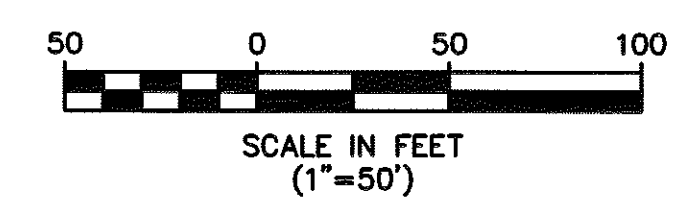
1. THE SOLE PURPOSE OF THIS PLAN IS TO SHOW THE DRYWELLS, VERTICAL RELIEF DRAINS, AND CATCH BASIN SYSTEM AT THE PROJECT SITE.
2. DRYWELLS, VERTICAL RELIEF DRAINS, AND CATCH BASIN LOCATIONS OBTAINED BY MASER CONSULTING & ENCTACT IN JANUARY AND FEBRUARY OF 2014.
3. HORIZONTAL DATUM NAD 1983, VERTICAL DATUM NAVD 1988.
4. DRYWELL AND CATCH BASIN SYSTEM INVERTS WERE INACCESSIBLE. TOP OF PIPE ELEVATIONS WERE OBTAINED, 12" PIPE SIZE WAS THEN SUBTRACTED TO SHOW ± INVERTS ELEVATIONS.

REFERENCE

1. ALL OTHER TOPOGRAPHY OUTSIDE OF THE REMEDIATION AREAS BASED ON PLANS ENTITLED, "IN-SITU SOLIDIFICATION FOR THE HEMPSTEAD INTERSECTION STREET, FORMER MANUFACTURED GAS PLANT SITE, VILLAGES OF HEMPSTEAD AND GARDEN CITY, NASSAU COUNTY, NEW YORK, PREPARED BY URS, FOR NATIONAL GRID, DATED APRIL 2011.

LEGEND

- V/RD DRY WELL
- DW #1 DRY WELL
- UTILITY POLE
- LP LIGHT POLE
- SMH SANITARY MANHOLE
- STMH STORM MANHOLE
- UMMH UNKNOWN MANHOLE
- FH FIRE HYDRANT
- WV WATER VALVE
- GV GAS VALVE
- GAS GAS MAIN
- W WATER MAIN
- SAN SANITARY MAIN
- ST STORM PIPE
- O2 OXYGEN PIPELINE
- OHW OVERHEAD WIRES
- E ELECTRIC LINE
- T/E TELEPHONE LINE
- X FENCE
- GR GRATE
- TC TOP OF CURB
- △ MON-C CONCRETE MONUMENT



REV.	DATE	DRAWN BY	DESCRIPTION
3.	7/10/14	RTH	GENERAL REVISIONS PER URS REVIEW LETTER 7/7/14
2.	6/9/14	RTH	REVISIONS PER URS REVIEW LETTER DATED 5/29/14
1.	4/24/14	RTH	GENERAL REVISIONS

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 Bethelham, PA.

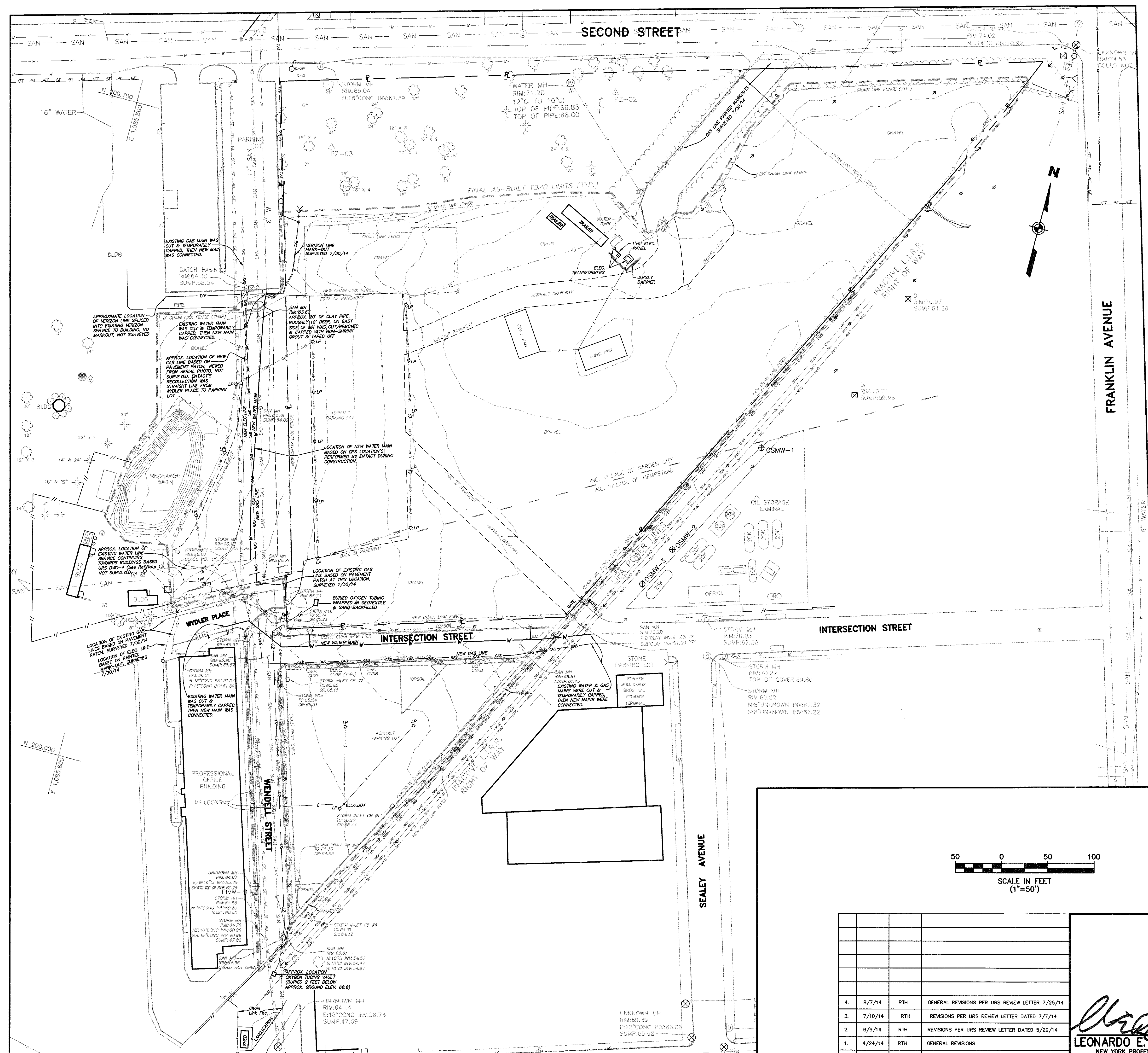
**DRYWELLS AND STORM DRAIN SYSTEM SURVEY
 IN-SITU SOLIDIFICATION FOR THE
 HEMPSTEAD INTERSECTION ST. FORMER MGP SITE**

FOR
ENCTACT, LLC

VILLAGE OF HEMPSTEAD NASSAU COUNTY NEW YORK

JOB NUMBER: 11000977A	DATE: APRIL 17, 2014
SCALE: 1"=50'	LATEST REVISION: JULY 10, 2014
INDEX NUMBER: MASU001387	DESIGN BY: BSB
SHEET NUMBER: 7 of 9	

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GENERAL NOTES

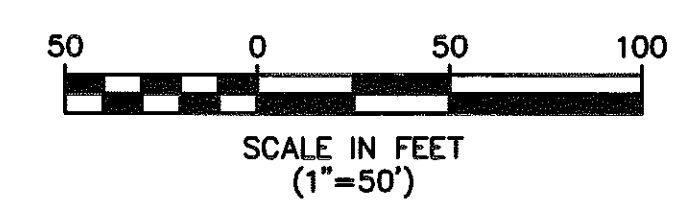
1. THE SOLE PURPOSE OF THIS PLAN IS TO SHOW THE ENCOUNTERED UTILITIES LEFT IN PLACE AND THE CONSTRUCTED UTILITIES AT THE PROJECT SITE.
2. UTILITY LOCATIONS OBTAINED BY ENTACT DURING CONSTRUCTION ACTIVITIES, ALONG WITH MARK-OUT AND/OR PAVEMENT PATCH LOCATIONS OBTAINED BY MASER CONSULTING.
3. HORIZONTAL DATUM NAD 1983, VERTICAL DATUM NAVD 1988.

REFERENCE

1. ALL OTHER TOPOGRAPHY OUTSIDE OF THE REMEDIATION AREAS BASED ON PLANS ENTITLED, "IN-SITU SOLIDIFICATION FOR THE HEMPSTEAD INTERSECTION STREET, FORMER MANUFACTURED GAS PLANT SITE, VILLAGES OF HEMPSTEAD AND GARDEN CITY, NASSAU COUNTY, NEW YORK, PREPARED BY URS, FOR NATIONAL GRID, DATED APRIL 2011.

LEGEND

- ⊗ UTILITY POLE
- LP LIGHT POLE
- ⊕ SANITARY MANHOLE
- ⊙ STORM MANHOLE
- ⊙ UNKNOWN MANHOLE
- ⊕ FIRE HYDRANT
- ⊙ WV WATER VALVE
- ⊙ GV GAS VALVE
- GAS — GAS MAIN
- W — WATER MAIN
- SAN — SANITARY MAIN
- ST — STORM PIPE
- O2 — OXYGEN PIPELINE
- OHW — OVERHEAD WIRES
- E — ELECTRIC LINE
- T/E — TELEPHONE LINE
- X — FENCE
- GR GRATE
- TC TOP OF CURB
- MON-C CONCRETE MONUMENT



REV.	DATE	DRAWN BY	DESCRIPTION
4.	8/7/14	RTH	GENERAL REVISIONS PER URS REVIEW LETTER 7/25/14
3.	7/10/14	RTH	REVISIONS PER URS REVIEW LETTER DATED 7/7/14
2.	6/9/14	RTH	REVISIONS PER URS REVIEW LETTER DATED 5/29/14
1.	4/24/14	RTH	GENERAL REVISIONS

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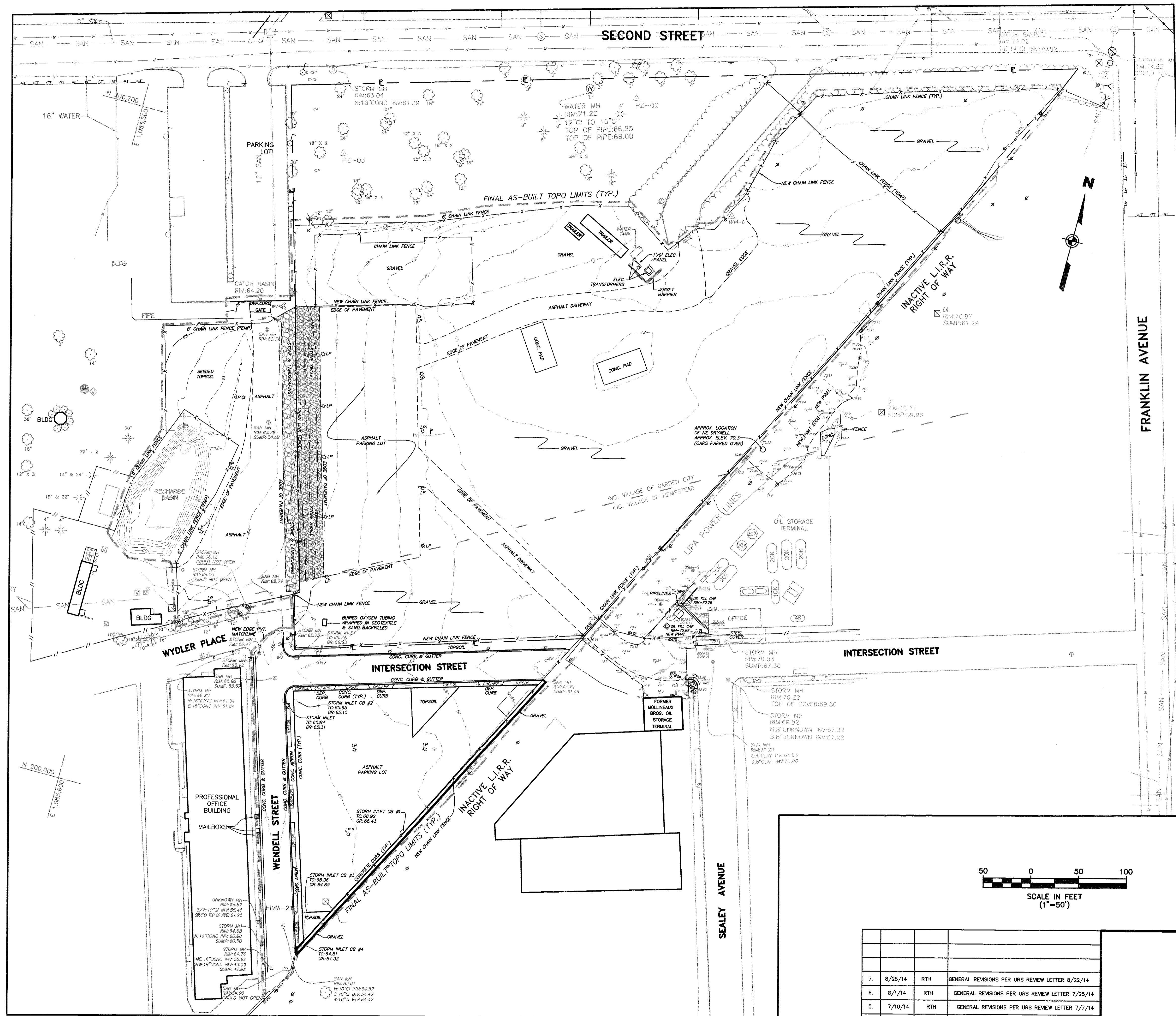
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 Bethelham, PA.

UTILITY SURVEY
**IN-SITU SOLIDIFICATION FOR THE
 HEMPSTEAD INTERSECTION ST. FORMER MGP SITE**
 FOR
ENTACT, LLC

JOB NUMBER: 11000977A	DATE: APRIL 4, 2014
SCALE: 1"=50'	LATEST REVISION: AUGUST 7, 2014
INDEX NUMBER: MASU001381	DESIGN BY: BSB
SHEET NUMBER: 8 of 9	

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GENERAL NOTES

1. THE SOLE PURPOSE OF THIS PLAN IS TO SHOW THE FINAL AS-BUILT LOCATIONS AND ELEVATIONS AT THE PROJECT SITE.
2. FINAL AS-BUILT LOCATIONS AND ELEVATIONS OBTAINED BY MASER CONSULTING, PA ON JAN. 13, 14, & 27, AND APRIL 8, 2014.
3. HORIZONTAL DATUM NAD 1983, VERTICAL DATUM NAVD 1988.

REFERENCE

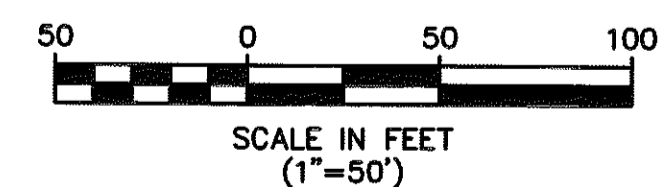
1. ALL OTHER TOPOGRAPHY OUTSIDE OF THE REMEDIATION AREAS BASED ON PLANS ENTITLED, "IN-SITU SOLIDIFICATION FOR THE HEMPSTEAD INTERSECTION STREET, FORMER MANUFACTURED GAS PLANT SITE, VILLAGES OF HEMPSTEAD AND GARDEN CITY, NASSAU COUNTY, NEW YORK, PREPARED BY URS, FOR NATIONAL GRID, DATED APRIL 2011.

FINAL AS-BUILT QUANTITIES

- GRAVEL - 175,060 SQ.FT. ±
- TOPSOIL - 6,623 SQ.FT.
- FENCE - 1,367 L.F. ±
- TEMPORARY FENCE - 722 L.F. ±

LEGEND

- ⊗ UTILITY POLE
- LP LIGHT POLE
- ⊙ SANITARY MANHOLE
- ⊙ STORM MANHOLE
- ⊙ UNKNOWN MANHOLE
- ⊙ FIRE HYDRANT
- ⊙ WV WATER VALVE
- ⊙ GV GAS VALVE
- GAS MAIN
- W WATER MAIN
- SAN SANITARY MAIN
- ST STORM PIPE
- O2 OXYGEN PIPELINE
- OHW OVERHEAD WIRES
- E ELECTRIC LINE
- T/E TELEPHONE LINE
- X FENCE
- GR GRATE
- TC TOP OF CURB
- △ MON-C CONCRETE MONUMENT



REV.	DATE	DRAWN BY	DESCRIPTION
7.	8/26/14	RTH	GENERAL REVISIONS PER URS REVIEW LETTER 8/22/14
6.	8/1/14	RTH	GENERAL REVISIONS PER URS REVIEW LETTER 7/25/14
5.	7/10/14	RTH	GENERAL REVISIONS PER URS REVIEW LETTER 7/7/14
4.	6/9/14	RTH	REVISIONS PER URS REVIEW LETTER DATED 5/29/14
3.	4/24/14	RTH	GENERAL REVISIONS
2.	4/18/14	RTH	REVISIONS AND ADDED TOPO AREAS TO THE EAST
1.	2/11/14	RTH	GENERAL REVISIONS.

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State of N.J. Certificate of Authorization: 246A27986500

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Newburgh, N.Y.
Bethlehem, PA.

**FINAL AS-BUILT SURVEY
 IN-SITU SOLIDIFICATION FOR THE
 HEMPSTEAD INTERSECTION ST. FORMER MGP SITE**

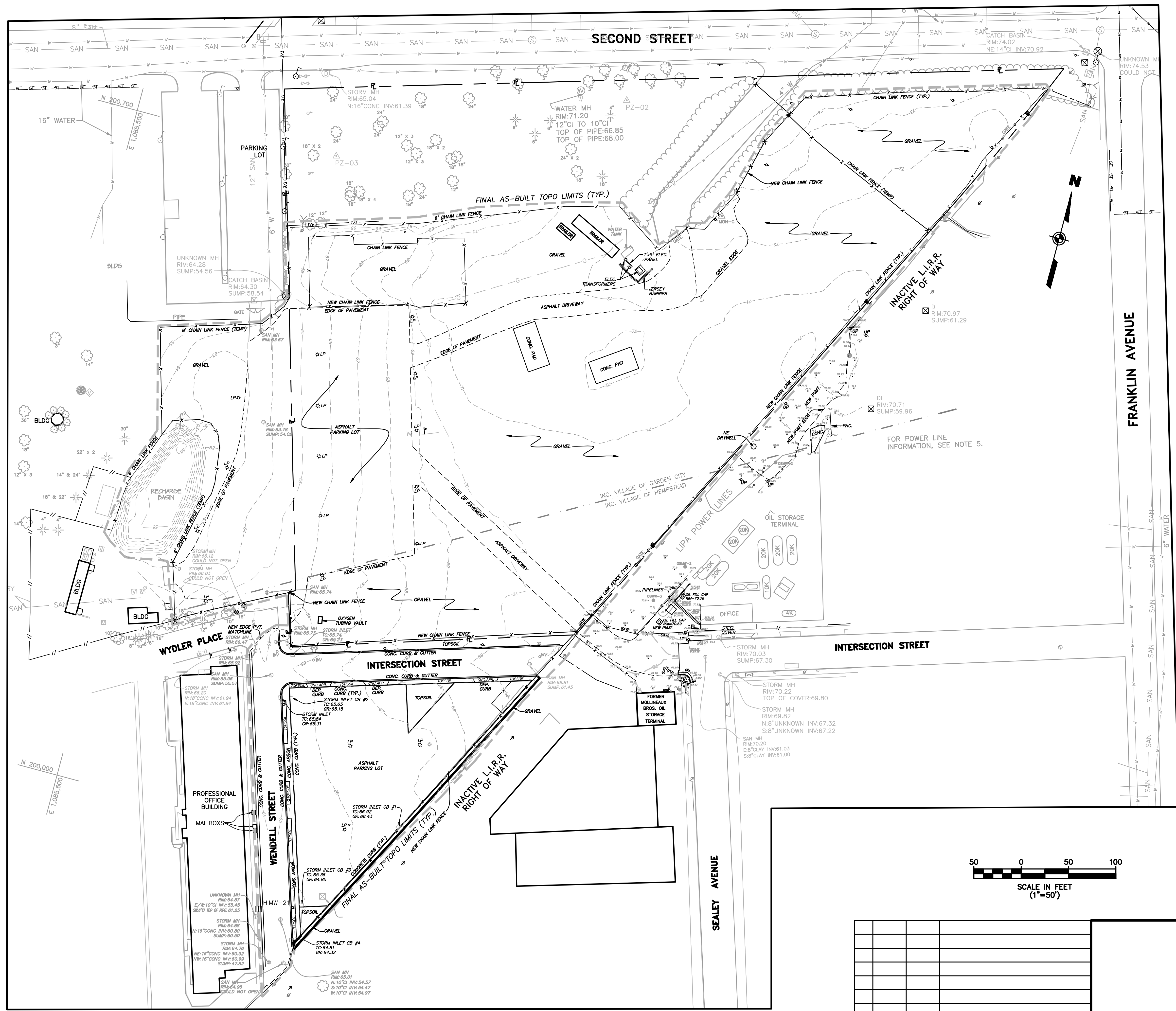
FOR
ENTACT, LLC

JOB NUMBER: 11000977A
 SCALE: 1"=50'
 INDEX NUMBER: MASU001323
 SHEET NUMBER: 9

DATE: FEB. 10, 2014
 LATEST REVISION: AUGUST 26, 2014
 DESIGN BY: BSB

VILLAGE OF HEMPSTEAD NASSAU COUNTY NEW YORK

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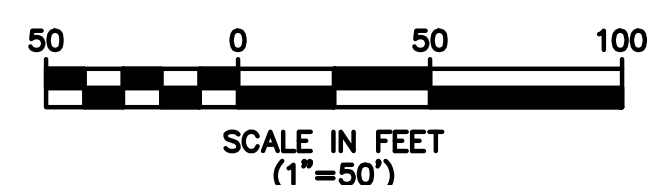


- GENERAL NOTES**
1. THE SOLE PURPOSE OF THIS PLAN IS TO SHOW THE FINAL AS-BUILT LOCATIONS AND ELEVATIONS AT THE PROJECT SITE.
 2. FINAL AS-BUILT LOCATIONS AND ELEVATIONS OBTAINED BY MASER CONSULTING, PA ON JAN. 13, 14, & 27, AND APRIL 8, 2014.
 3. HORIZONTAL DATUM NAD 1983, VERTICAL DATUM NAVD 1988.
- REFERENCE**
1. ALL OTHER TOPOGRAPHY OUTSIDE OF THE REMEDIATION AREAS BASED ON PLANS ENTITLED, "IN-SITU SOLIDIFICATION FOR THE HEMPSTEAD INTERSECTION STREET, FORMER MANUFACTURED GAS PLANT SITE, VILLAGES OF HEMPSTEAD AND GARDEN CITY, NASSAU COUNTY, NEW YORK, PREPARED BY URS, FOR NATIONAL GRID, DATED APRIL 2011.

FINAL AS-BUILT QUANTITIES
 GRAVEL - 175,060 SQ.FT. ±
 TOPSOIL - 6,623 SQ.FT.
 FENCE - 1,367 L.F. ±
 TEMPORARY FENCE - 722 L.F. ±

LEGEND

○	UTILITY POLE
LP	LIGHT POLE
SM	SANITARY MANHOLE
SMH	STORM MANHOLE
FD	FIRE HYDRANT
WV	WATER VALVE
UMH	UNKNOWN MANHOLE
GM	GAS MAIN
WM	WATER MAIN
SM	SANITARY MAIN
ST	STORM PIPE
O2	OXYGEN PIPELINE
OWH	OVERHEAD WIRES
MON-C	CONCRETE MONUMENT



REV.	DATE	DRAWN BY	DESCRIPTION
3.	4/24/14	RTH	GENERAL REVISIONS
2.	4/18/14	RTH	REVISIONS AND ADDED TOPO AREAS TO THE EAST
1.	2/11/14	RTH	GENERAL REVISIONS.

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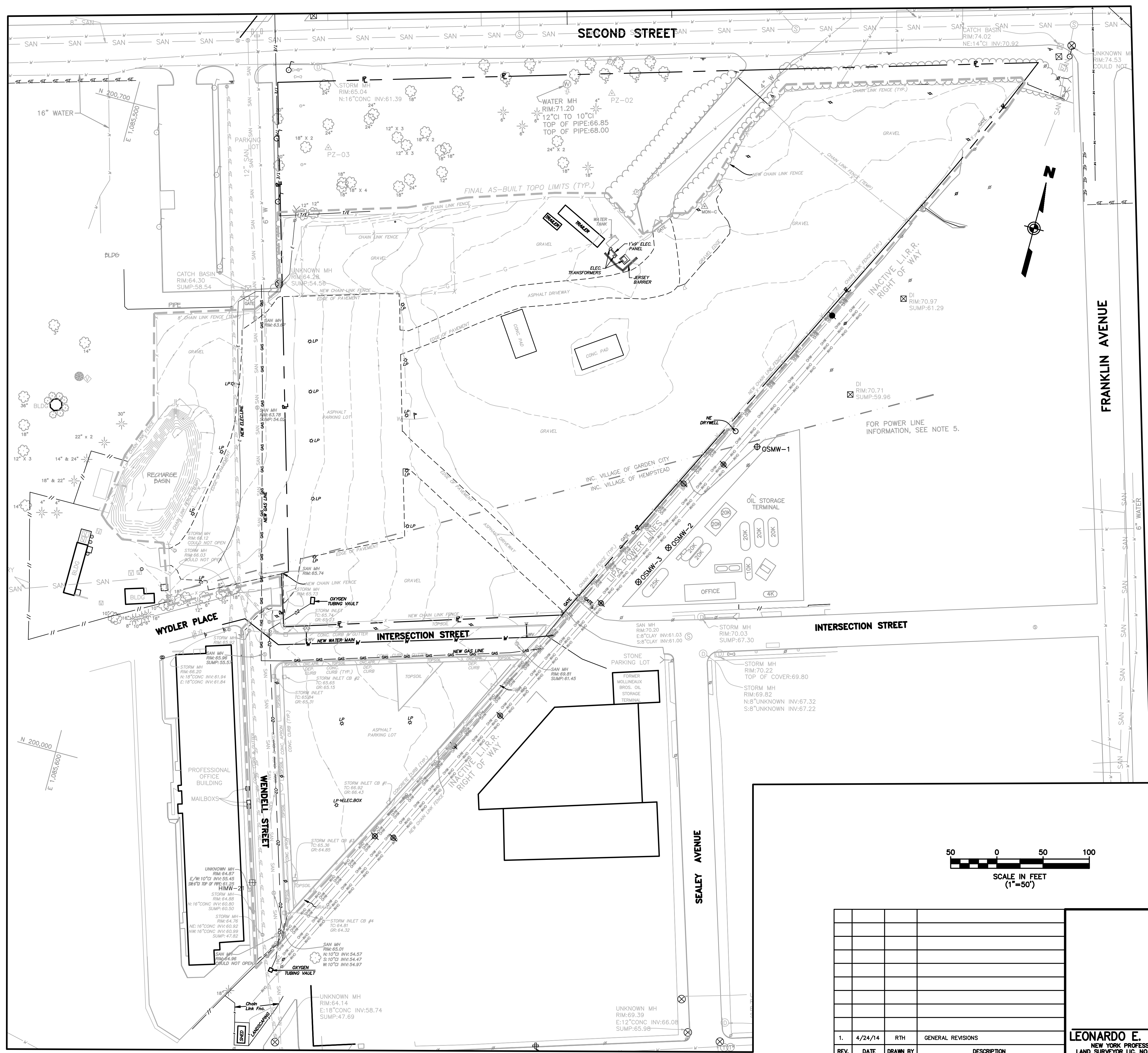
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 Newburgh, N.Y.
 Bethelham, PA.

FINAL AS-BUILT SURVEY
IN-SITU SOLIDIFICATION FOR THE
HEMPSTEAD INTERSECTION ST. FORMER MGP SITE
 FOR
ENTACT, LLC

VILLAGE OF HEMPSTEAD NASSAU COUNTY NEW YORK

JOB NUMBER: 11000977A DATE: FEB. 10, 2014
 SCALE: 1"=50' LATEST REVISION: APRIL 24, 2014
 INDEX NUMBER: MASU001323 DESIGN BY: BSB
 SHEET NUMBER: 1 of 1

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GENERAL NOTES

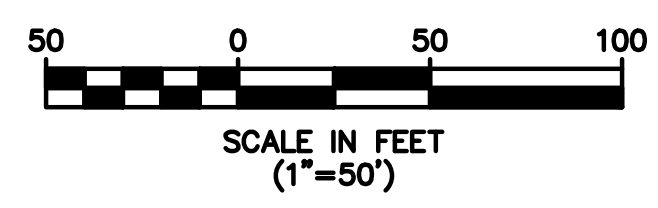
1. THE SOLE PURPOSE OF THIS PLAN IS TO SHOW THE ENCOUNTERED UTILITIES LEFT IN PLACE AND THE CONSTRUCTED UTILITIES AT THE PROJECT SITE.
2. UTILITY LOCATIONS OBTAINED BY ENTACT DURING CONSTRUCTION ACTIVITIES.
3. HORIZONTAL DATUM NAD 1983, VERTICAL DATUM NAVD 1988.

REFERENCE

1. ALL OTHER TOPOGRAPHY OUTSIDE OF THE REMEDIATION AREAS BASED ON PLANS ENTITLED, "IN-SITU SOLIDIFICATION FOR THE HEMPSTEAD INTERSECTION STREET, FORMER MANUFACTURED GAS PLANT SITE, VILLAGES OF HEMPSTEAD AND GARDEN CITY, NASSAU COUNTY, NEW YORK, PREPARED BY URS, FOR NATIONAL GRID, DATED APRIL 2011.

LEGEND

- UTILITY POLE
- LIGHT POLE
- SANITARY MANHOLE
- STORM MANHOLE
- FIRE HYDRANT
- WV WATER VALVE
- UNKNOWN MANHOLE
- GAS MAIN
- W WATER MAIN
- SAN SANITARY MAIN
- ST STORM PIPE
- O2 OXYGEN PIPELINE
- OHV OVERHEAD WRES
- △ MON-C CONCRETE MONUMENT



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REV.	DATE	DRAWN BY	DESCRIPTION
1.	4/24/14	RTH	GENERAL REVISIONS

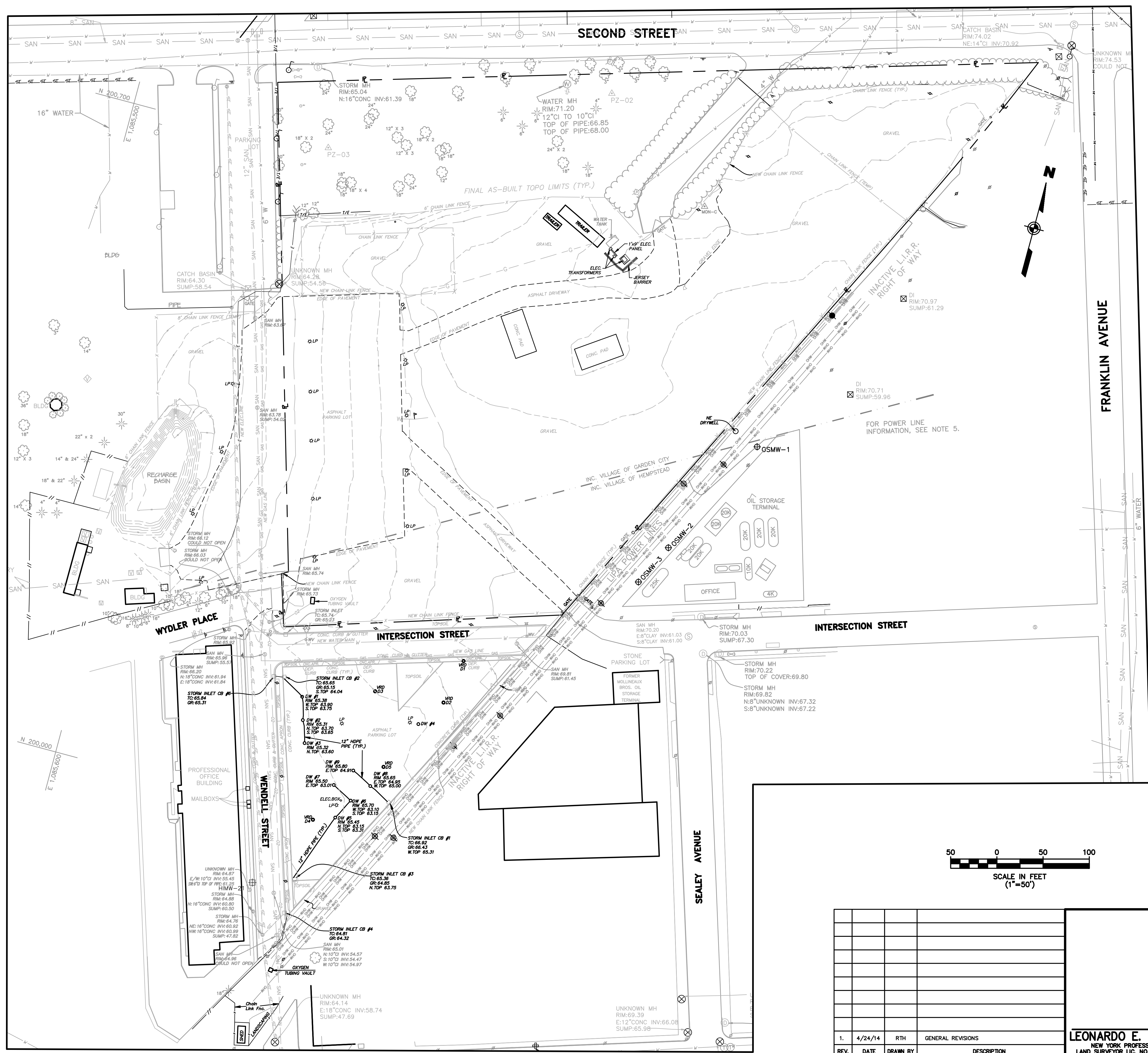
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UTILITY SURVEY
IN-SITU SOLIDIFICATION FOR THE
HEMPSTEAD INTERSECTION ST. FORMER MGP SITE
 FOR
ENTACT, LLC
 VILLAGE OF HEMPSTEAD NASSAU COUNTY NEW YORK

JOB NUMBER: 11000977A	DATE: APRIL 4, 2014
SCALE: 1"=50'	LATEST REVISION: APRIL 24, 2014
INDEX NUMBER: MASU001381	DESIGN BY: BSB
SHEET NUMBER:	1 of 1

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GENERAL NOTES

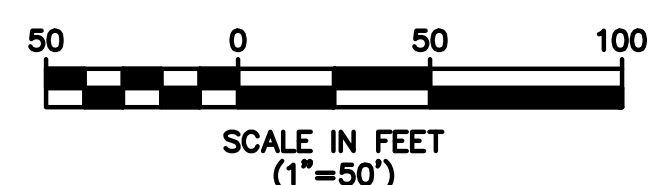
1. THE SOLE PURPOSE OF THIS PLAN IS TO SHOW THE DRYWELLS, VERTICAL RELIEF DRAINS, AND CATCH BASIN SYSTEM AT THE PROJECT SITE.
2. DRYWELLS, VERTICAL RELIEF DRAINS, AND CATCH BASIN LOCATIONS OBTAINED BY MASER CONSULTING & ENACT IN JANUARY AND FEBRUARY OF 2014.
3. HORIZONTAL DATUM NAD 1983, VERTICAL DATUM NAVD 1988.

REFERENCE

1. ALL OTHER TOPOGRAPHY OUTSIDE OF THE REMEDIATION AREAS BASED ON PLANS ENTITLED, "IN-SITU SOLIDIFICATION FOR THE HEMPSTEAD INTERSECTION STREET, FORMER MANUFACTURED GAS PLANT SITE, VILLAGES OF HEMPSTEAD AND GARDEN CITY, NASSAU COUNTY, NEW YORK, PREPARED BY URS, FOR NATIONAL GRID, DATED APRIL 2011.

LEGEND

- VRD #2 VERTICAL RELIEF DRAIN
- DW #1 DRY WELL
- UTILITY POLE
- LP LIGHT POLE
- SMH SANITARY MANHOLE
- SMH STORM MANHOLE
- FV FIRE VALVE
- WV WATER VALVE
- UNKNOWN MANHOLE
- GAS MAIN
- W WATER MAIN
- SAN SANITARY MAIN
- ST STORM PIPE
- O2 OXYGEN PIPELINE
- OW OVERHEAD WRES
- △ MON-C CONCRETE MONUMENT



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**DRYWELLS AND STORM DRAIN SYSTEM SURVEY
IN-SITU SOLIDIFICATION FOR THE
HEMPSTEAD INTERSECTION ST. FORMER MGP SITE**

FOR
ENACT, LLC

VILLAGE OF HEMPSTEAD NASSAU COUNTY NEW YORK

JOB NUMBER: 11000977A	DATE: APRIL 17, 2014
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