nationalgrid

Final Engineering Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site

Villages of Hempstead & Garden City
Nassau County, New York



Prepared for:

National Grid
175 East Old Country Road
Hicksville, New York 11801

Prepared by:

URS Corporation - New York
257 West Genesee Street, Suite 400
Buffalo, New York 14202

URS

September 2016

Appendix I
Record Drawings

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

Record Redlines

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

PREPARED FOR:

NATIONAL GRID

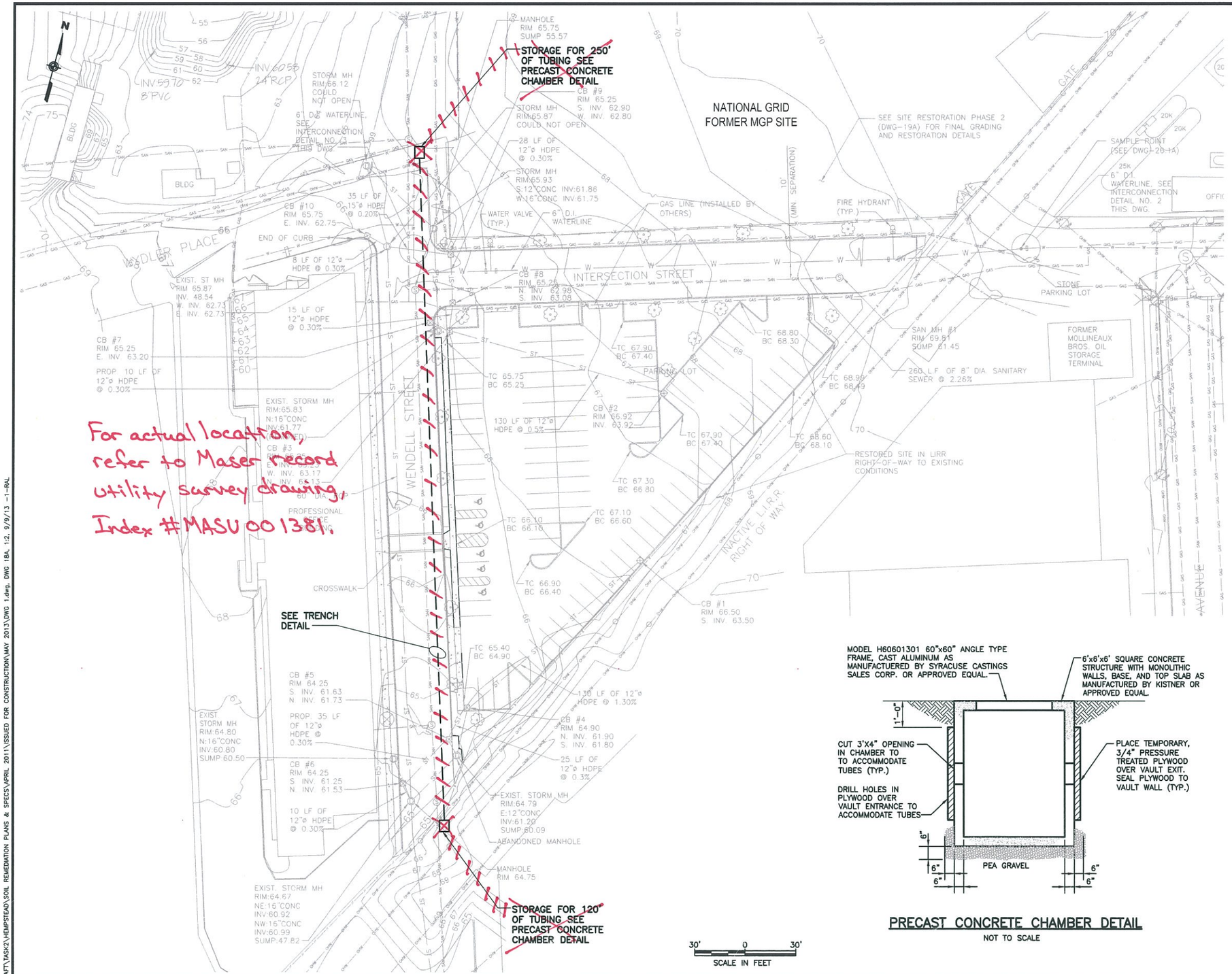
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

APRIL 2011

ISSUED FOR CONSTRUCTION

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\COVER.dwg 8/16/11 - 1 RAL

This drawing was computer generated. Any changes and/or revisions should be made only upon the original computer generated drawing.



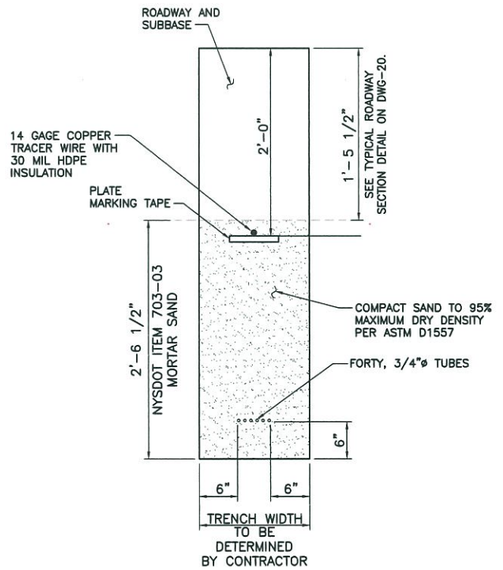
For actual location, refer to Master record utility survey drawing, Index #MASU001381.

LEGEND:

- FENCE
- FENCE
- CONCRETE SIDEWALK
- APPROXIMATE PROPERTY LINE
- CATCH BASIN
- TREE
- EXISTING STORM MANHOLE
- STORM SEWER LINE
- SANITARY SEWER LINE
- WATERLINE
- GASLINE
- GROUND SURFACE CONTOUR
- TUBING

PRECAST CONCRETE CHAMBER DETAIL

NOT TO SCALE



TRENCH DETAIL

NOT TO SCALE

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	KRJ	JAS	9/2013	ISSUED FOR CONSTRUCTION

REVISIONS

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

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

JOB NO. 11176098

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS PLANT SITE

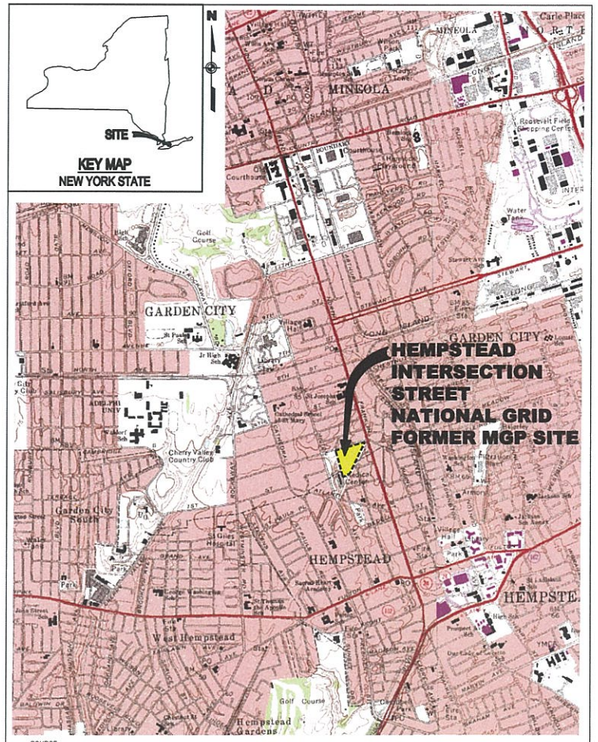
EXTENSION OF OXYGEN GENERATION SYSTEM

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

Any claims, from the original of this drawing, that are inconsistent with the original work as a depiction of the Contract Documents, are the responsibility of the Author of Record.

This drawing was computer generated and its contents may not be changed manually without the written consent of URS Corporation.

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\MAY 2013\DWG 1.dwg, DWG 1BA, 1:2, 9/9/13 -1-RAL



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.
2. 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
NYSDOTSS	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
4 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

3 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
10	WELL DECOMMISSIONING PLAN
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) (revised)
15A	TRAFFIC PLAN FOR CONSTRUCTION
16A	EXCAVATION PLAN
17A	EXCAVATION CROSS SECTIONS
18A	SITE RESTORATION PHASE 1 (revised)
19A	SITE RESTORATION PHASE 2 (revised)
20	PAVING AND DRAINAGE DETAILS
21.1	REMEDIATION DETAILS (SHEET 1 OF 2)
21.2	REMEDIATION 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 (revised)
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

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN 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.	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

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

JOB NO. 11176098

STATE OF NEW YORK — JACK A. WINDSOR — No. 66338 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

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

Only copies from the original of this drawing that are marked with the original seal and signature of the Engineer are authorized.
This drawing was computer generated and any changes or revisions should be made only by means of revised computer generated plots.

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG-2.1-2.2.dwg 9/8/11 -- 2 RAL

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/FOUNDATON
- LIGHT POLE
- METAL POLE
- SIGN
- UTILITY POLE
- VAULT
- WATER VALVE
- PZ-02 — PIEZOMETER/WELL LOCATION (ROY F. WESTON FIELD INVESTIGATION, MARCH 1993)
- HITW-02 — TEMPORARY GROUNDWATER MONITORING WELL (TAKEN FROM RI REPORT, 2006)
- HIGP-53 — TEMPORARY GROUNDWATER SAMPLE LOCATION (TAKEN FROM RI REPORT, 2006)
- HIMW-13 — GROUNDWATER MONITORING WELL
- HISB-114 — TEMPORARY GROUNDWATER SAMPLE LOCATION (URS, 2008-2009)
- IPR-12 — IRM PRODUCT RECOVERY WELL, URS 2008 & 2009
- MON-D — SURVEY CONTROL POINTS
- PK-A — SURVEY CONTROL POINTS
- HISS-03 — SURFACE SOIL SAMPLE
- GAS — GAS LINE
- OHW — OVERHEAD WIRE (ELECTRIC)-PLAN
- OHW — EXISTING OVERHEAD WIRE (ELECTRIC)- PROFILE
- E — UNDERGROUND ELECTRIC LINE
- FORMER MGP SITE BOUNDARY AND APPROXIMATE PROPERTY LINE
- SAN — SANITARY SEWER LINE
- ST — STORM SEWER LINE
- T — TELEPHONE LINE
- W — 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
- EG — GROUND SURFACE ELEVATION
- DECIDUOUS TREE
- CONIFER TREE
- APPROXIMATE TREE LINE

2 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.
- [-2 FT] — 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

2 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
- x — PROPOSED TEMPORARY FENCE WITH VISUAL BARRIER
- PROPOSED EROSION/SEDIMENT CONTROL MEASURES
- 69 — PROPOSED GROUND SURFACE ELEVATION
- GAS — PROPOSED GASLINE
- ST — PROPOSED STORM SEWER LINE
- SAN — PROPOSED SANITARY SEWER LINE
- UGE — PROPOSED UNDERGROUND ELECTRICAL CONDUIT
- W — 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
- H — PROPOSED HAND HOLE
- PROPOSED UTILITY POLE WITH WEATHERHEAD
- X — 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

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	RJP	JAS	8/2011	LEGEND REVISED FOR DSM-ONLY
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
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176098

STATE OF NEW YORK — JACOB H. WILKINS — No. 66238 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

LEGEND

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

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG-2.1-2.2.dwg 9/8/11 - 2 RAL

This drawing was computer generated. Any changes and/or revisions should be made only using the original file with authorized plotting.

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.

LEGEND - EXISTING

- FENCE
- FORMER MGP SITE BOUNDARY AND APPROXIMATE PROPERTY LINE
- APPROXIMATE LOCATION OF FORMER MGP STRUCTURE
- LOCATION OF EXISTING STRUCTURE
- IPR-12 — IRM PRODUCT RECOVERY WELL, URS 2008 & 2009
- PZ-02 — PIEZOMETER/WELL LOCATION (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)
- MON-D — SURVEY CONTROL POINTS
- PK-A — SURVEY CONTROL POINTS
- DECIDUOUS TREE
- CONIFER TREE
- APPROXIMATE TREE LINE
- 69 — 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

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.

60' 0 60'
SCALE IN FEET

ISSUED FOR CONSTRUCTION

Only copies from the original of this drawing that are marked with the original seal and signature of the Engineer are authorized.

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

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

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

JOB NO. 11176098

STATE OF NEW YORK — JOHN A. SARTOR — No. 64338 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

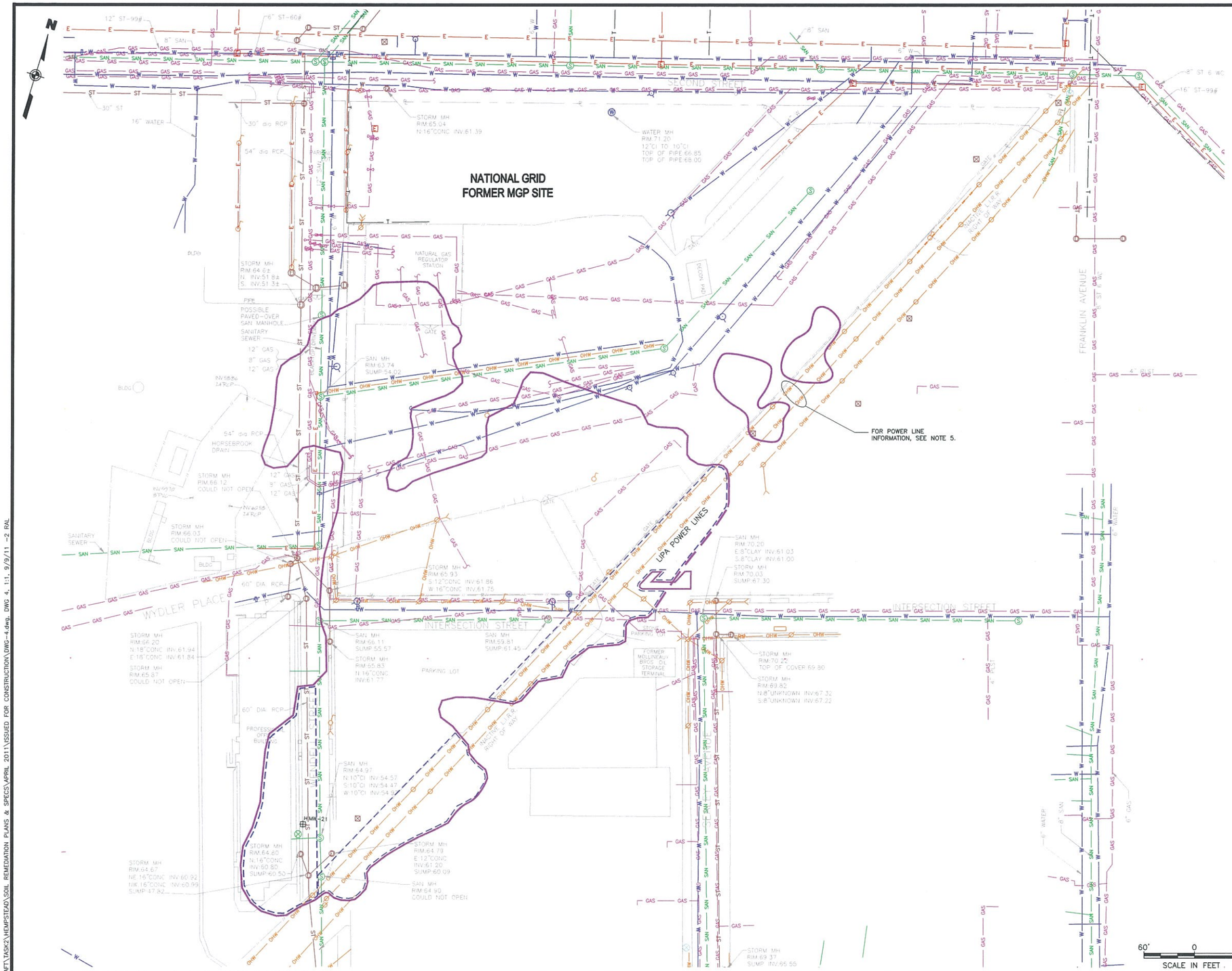
THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

EXISTING SITE PLAN
SHOWING FORMER MGP
STRUCTURES

Scale: AS SHOWN | Date: APRIL 2011 | DWG-3

This drawing was computer generated. Any changes and/or revisions should be made electronically.

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG-3.dwg, PAPER, 1:1, 9/9/11 -1-RAL



NOTES:

1. 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.
2. SEE DWG-12A FOR UTILITY PROTECTION AND DECOMMISSIONING PLAN. SEE DWG-13A FOR REQUIREMENTS CONCERNING PROTECTION OF UTILITIES.
3. 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.
4. FOR LOCATION OF EXISTING TREES, SEE DWG-3.
5. LIPA POWER LINES WITHIN LIRR 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).
2. 6. FOR OIL STORAGE TERMINAL INFRASTRUCTURE, REFER TO DWG-5A.
7. GAS LINE INFORMATION ARE AS TAKEN FROM REFERENCE DRAWINGS PROVIDED BY NATIONAL GRID.

LEGEND - EXISTING

- FENCE
- FORMER MGP SITE BOUNDARY AND APPROXIMATE PROPERTY LINE
- LOCATION OF EXISTING STRUCTURE
- DELINEATED LIMIT OF MGP SOURCE MATERIAL
- APPROXIMATE LIMITS OF MGP SOURCE MATERIAL
- NO SOLIDIFICATION – MGP IMPACTS TO BE TREATED WITH O2 DELIVERY SYSTEM
- GAS LINE
- UNDERGROUND ELECTRIC LINE
- OVERHEAD ELECTRIC LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- TELEPHONE LINE
- WATER LINE
- DRAINAGE INLET
- STORM MANHOLE
- SANITARY MANHOLE
- TELEPHONE MANHOLE
- UNKNOWN MANHOLE
- WATER MANHOLE
- ELECTRIC MANHOLE
- LIGHT POLE
- UTILITY POLE
- GUY WIRE
- GAS VALVE
- FIRE HYDRANT
- WATER VALVE
- METAL POLE
- SIGN
- GATE

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.

60' 0 60'
SCALE IN FEET

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	RJP	JAS	8/2011	ELIMINATED "B" DRAWING REFERENCES
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
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176098

STATE OF NEW YORK JACK E. WILCOX No. 69378 LICENSED PROFESSIONAL ENGINEER

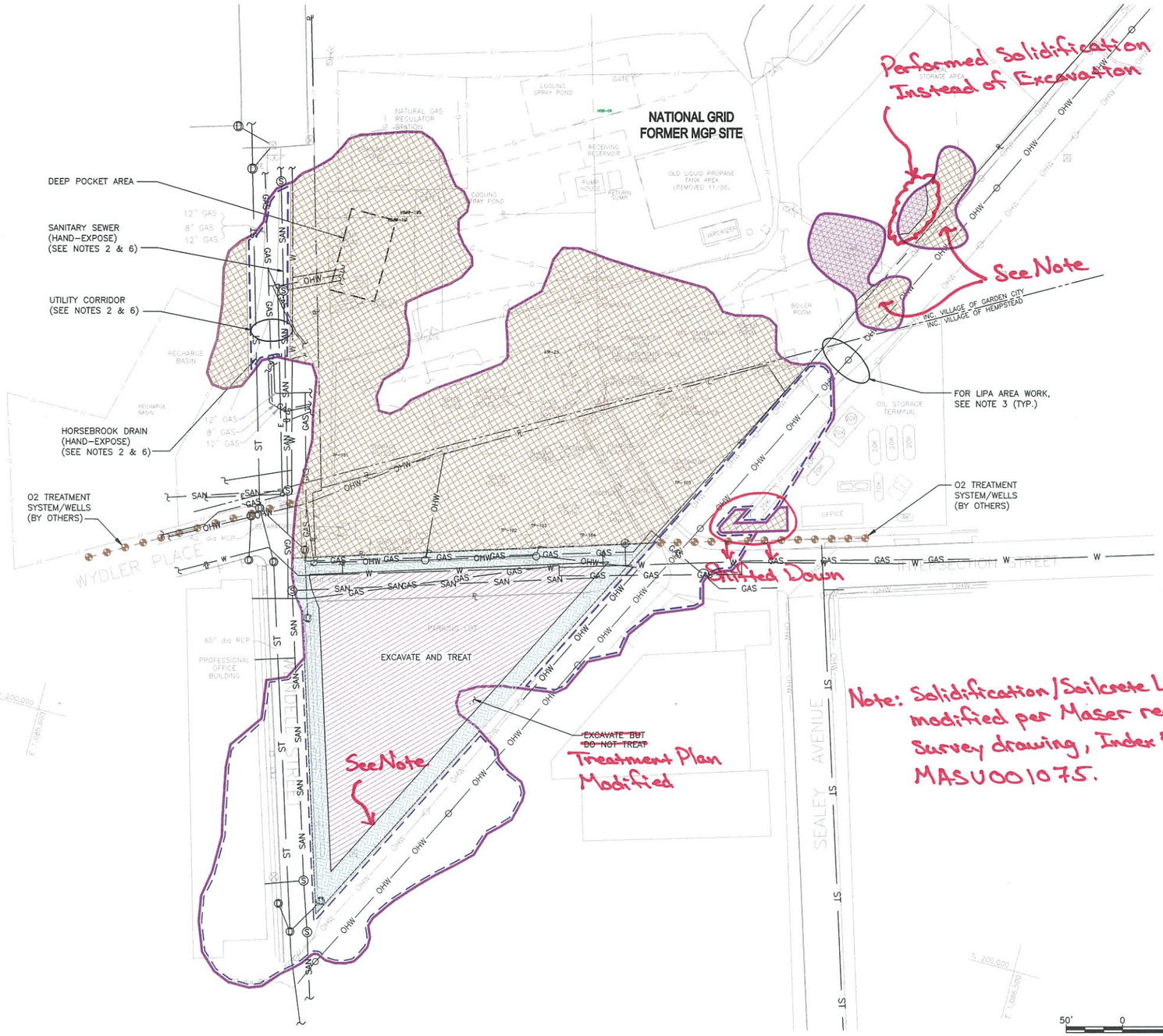
nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

EXISTING SITE UTILITIES

Scale: AS SHOWN | Date: APRIL 2011 | DWG-4

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG-4.dwg, DWG 4, 1:1, 9/9/11 -2 RAL



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)
- OHW — OVERHEAD WIRES

NOTES:

1. FOR LOCATION OF EXISTING TREES, SEE DWG–3.
2. 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.
3. 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).
4. 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.
5. 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.
6. 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.
7. SOLIDIFICATION SHALL NOT BE PERFORMED INSIDE OF A TEMPORARY CONTAINMENT BUILDING.

Note: Solidification/Soilcrete Limits modified per Maser record survey drawing, Index # MASU001075.

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.

50' 0 50'
SCALE IN FEET

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

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

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

JOB NO. 11176098

JOHN A. WILSON — No. 66328 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

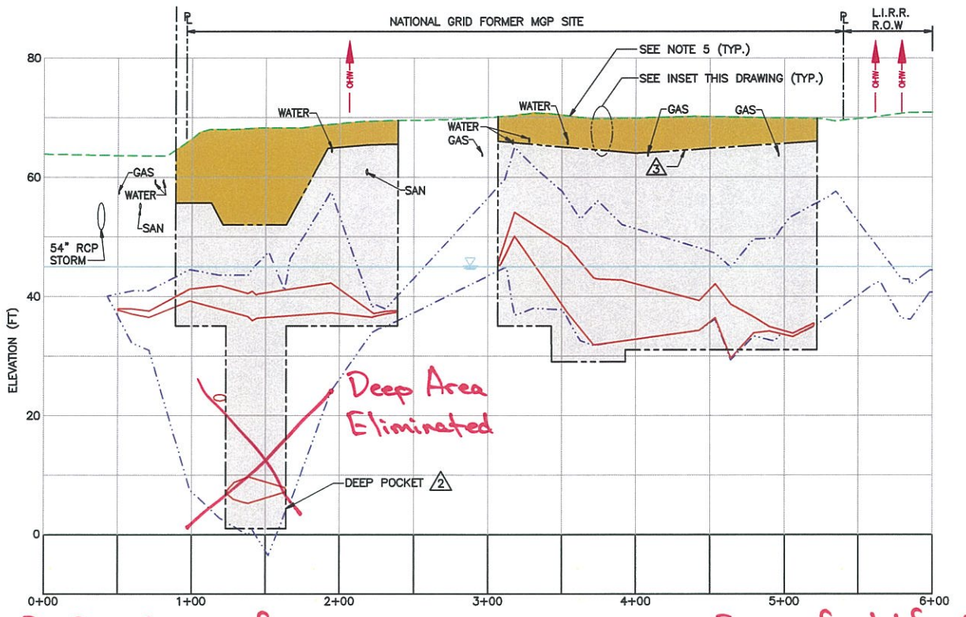
THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

SOLIDIFICATION METHODS LAYOUT

Scale: AS SHOWN | Date: APRIL 2011 | DWG–5A

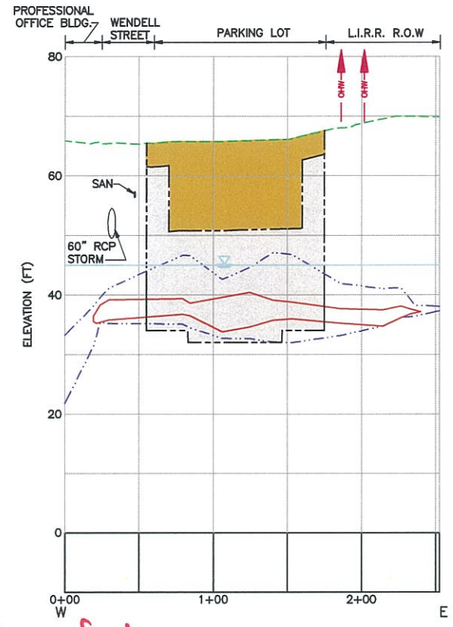
J:\11175055.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG-5A.dwg 1=1 9/9/11-1 RAL

This drawing was computer generated and any alterations made to it must be made to the CADD drawing file.



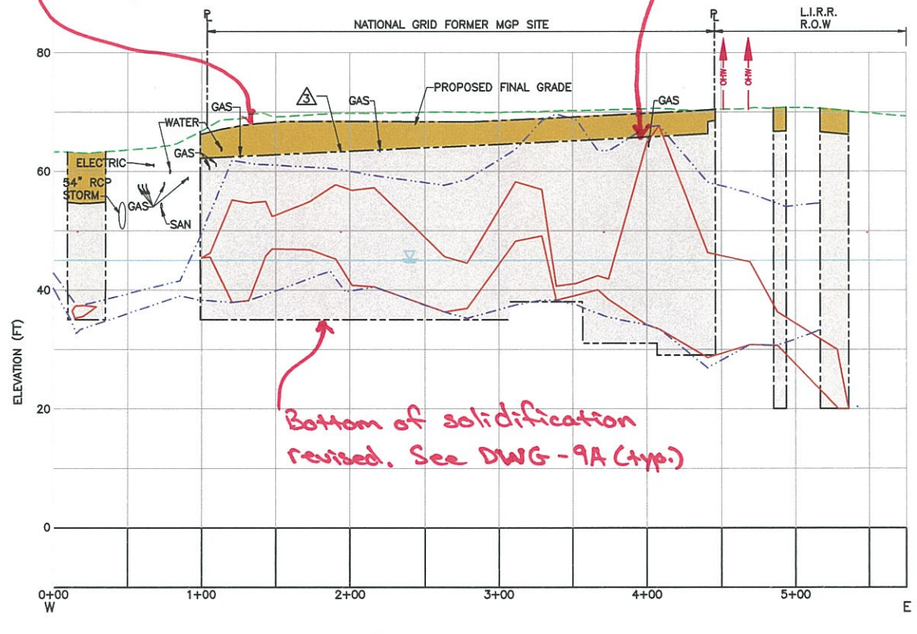
SECTION WE-1

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

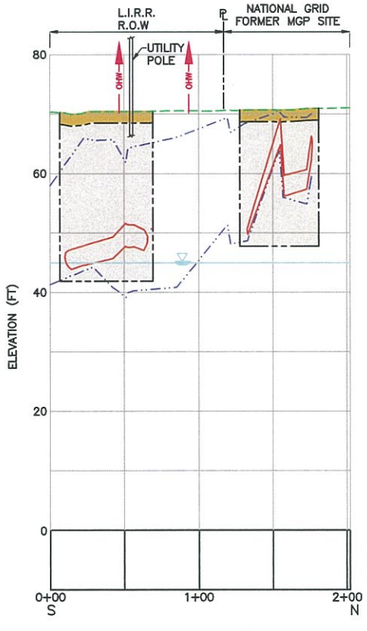


SECTION WE-3

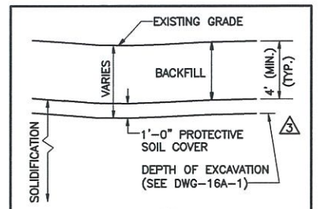
For top of solidification, refer to Maser record survey drawing, Index # MASU001075 (typ.)



SECTION WE-2



SECTION NEC-1



INSET

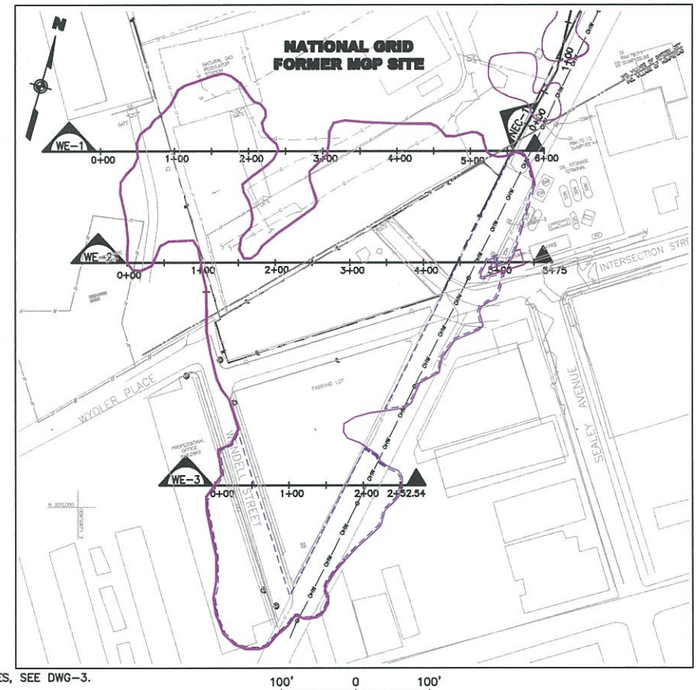
NOT TO SCALE

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



NOTES:

1. FOR LOCATION OF EXISTING TREES, SEE DWG-3.
2. THIS DRAWING IS INTENDED TO SHOW MINIMUM SOLIDIFICATION AND EXCAVATION LIMITS, EXCLUSIVE OF SLOPE CUTBACKS AND MINOR ADJUSTMENTS OF LIMITS TO ACCOMMODATE EXISTING UTILITIES.
3. REFER TO DRAWING DWG-4 FOR LOCATIONS OF EXISTING UTILITIES.
4. THE SHOWN LOCATIONS AND ELEVATIONS OF UTILITIES SHALL BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS.
5. 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.

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.

REVISIONS

NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
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

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

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

JOB NO. 11176098

STATE OF NEW YORK — JACK E. WITCOX — LICENSED PROFESSIONAL ENGINEER — No. 65339

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

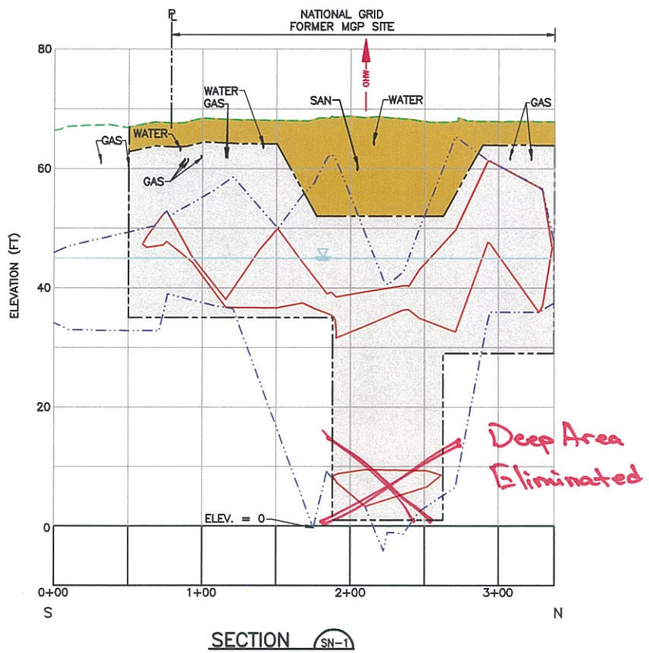
WEST/EAST CROSS SECTIONS

Scale: AS SHOWN | Date: APRIL 2011 | DWG-6A

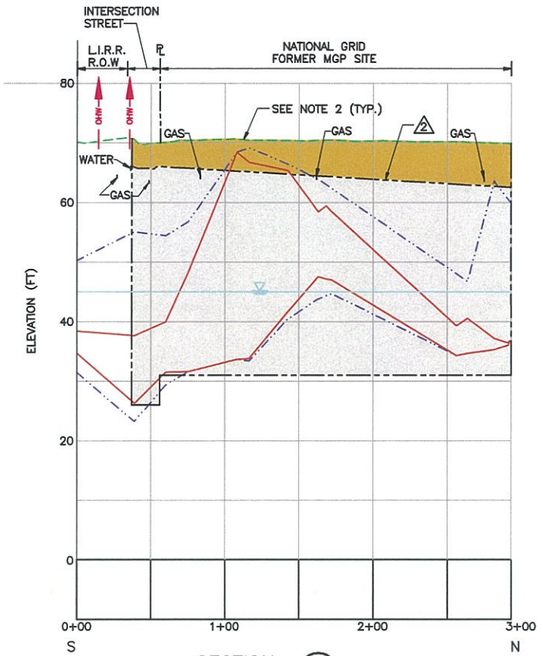
Only copies from the original of this drawing that are signed and sealed in accordance with the Engineer, shall be considered as true valid copies.

This drawing is computer generated and shall not be altered by hand or CAD drawing file.

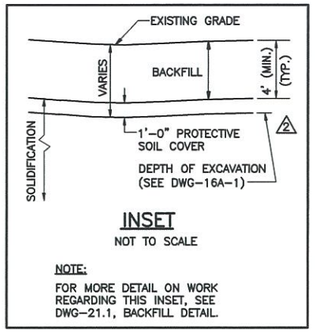
J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\REVISED NOVEMBER\DWG-6A.dwg, DWG 6, 1:2, 11/10/11 -1-RAL



SECTION SN-1



SECTION SN-3



INSET

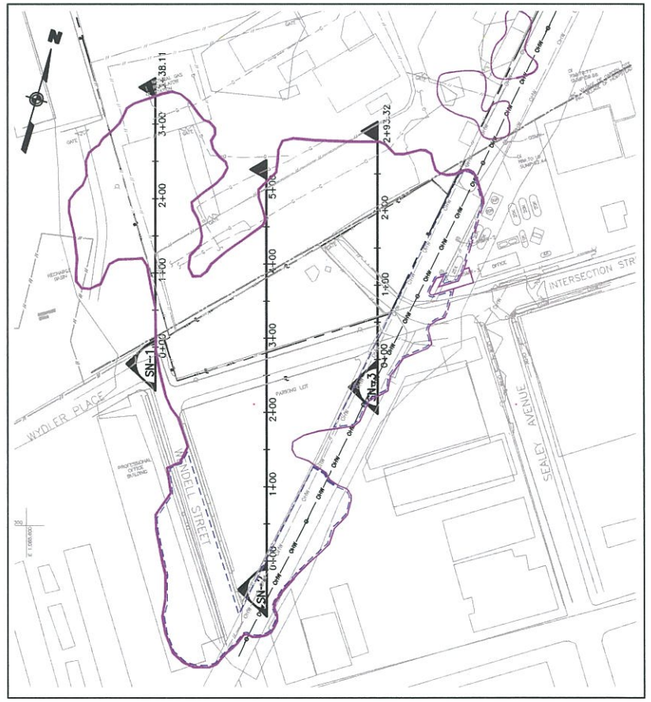
NOT TO SCALE

NOTE:

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

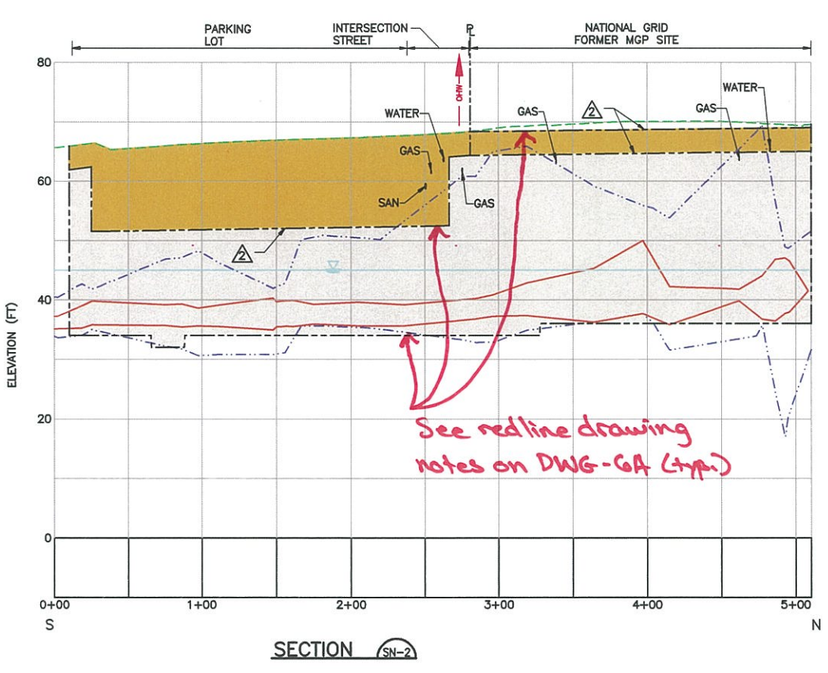
LEGEND

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



100' 0 100'

SCALE IN FEET



SECTION SN-2

NOTE:

1. FOR NOTES, REFER TO DRAWING DWG-6A.
2. 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.

ISSUED FOR CONSTRUCTION

Only copies from the original of this drawing that are signed and sealed in red ink by a licensed Professional Engineer, shall be considered as true valid copies.

This drawing and computer generated data hereon is the property of URS Corporation and is not to be used in whole or in part for any other project without written authorization of URS Corporation.

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	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: GJB
DRAWN BY: RAL
CHECKED BY: RJP
PROJ. MGR. JAS

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

JOB NO. 11176098

STATE OF NEW YORK — JACK R. WITTKOP — LICENSED PROFESSIONAL ENGINEER — No. 59306

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

SOUTH/NORTH CROSS SECTIONS

Scale: AS SHOWN | Date: APRIL 2011 | DWG-7A

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\REVISED NOVEMBER\DWG-7A.dwg, DWG 7, 1:2, 11/10/11 -1-RAL

Deep Pocket Eliminated

NATIONAL GRID
FORMER MGP SITE

N

SEE NOTE 3 ⚠2

SEE NOTE 6

DEEP POCKET (INCLUDING DRIP OIL TANK AREA)

MGP SITE MAIN DSM AREA (SEE NOTE 2)

⚠2 VARIES, SEE DWG-16A-1

POB PARKING LOT DSM AREA (SOLIDIFY UP TO TOP OF EXCAVATION SURFACE) ⚠2

PROPOSED SOIL-CRETE DSM RETAINING WALL

Treatment Area Modified

PROPOSED WEEP HOLE LOCATION, (TYP.) ⚠2 SEE DWG-21.3 FOR DETAIL

Weep Holes Changed to Vertical Relief Drains

PROPOSED EXCAVATION AREAS

[-2 FT] [-4 FT] -10'

Performed solidification instead of excavation. Retaining wall not constructed.

Deep Pocket Eliminated

Shifted Down

INC. VILLAGE OF GARDEN CITY
INC. VILLAGE OF HEMPSTEAD

WYDLER PLACE

WENDELL STREET

INTERSECTION STREET

SEALEY AVENUE

OIL STORAGE TERMINAL

PROFESSIONAL OFFICE BUILDING

RECHARGE BASIN

50' O.C. (TYP.)

25' 30' 50'

E 1,085,600 N 200,000 E 1,086,500

50' 0 50'
SCALE IN FEET

NOTES:

1. FOR LOCATION OF EXISTING TREES, SEE DWG-3.
2. 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).
3. DEEP ACCESS ZONE SOLIDIFICATION STEPS:
   A. EXCAVATE DEEP POCKET ZONE TO DEPTH INDICATED. EXCAVATE SLOPE AREAS TO MATCH ADJACENT EXCAVATION OR SURFACE DEPTH.
   B. SOLIDIFY DEEP POCKET AREA ONLY, UP TO SHOWN EXCAVATION GRADE.
   C. BACKFILL DEEP POCKET ZONE AND DEEP POCKET SLOPE ZONE WITH CLEAN SOIL UP TO 4 FEET BELOW EXISTING GRADE.
   D. SOLIDIFY THE BACKFILLED DEEP POCKET ZONE (EXCEPT DEEP POCKET FOOTPRINT).
   E. 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.
4. 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.
5. FOR CONSTRUCTION LAYOUT INFORMATION, REFER TO DWG-31A.
6. IN GARDEN CITY PARK AREA, EXCAVATE TO TOP OF SANITARY SEWER LINE, APPROXIMATE ELEVATION 56 FEET AMSL. (EXCAVATION DEPTH BELOW EXISTING GRADE VARIES.)

LEGEND

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

LEGEND

DESCRIPTION	TOP OF SOLIDIFICATION, MEASURED AS DEPTH BELOW EXISTING GRADE (FEET)
LIRR ROW VICINITY: CREATE SHALLOW CUT [AS SHOWN] TO TEMPORARILY CONTAIN SPOILS THEN SOLIDIFY VIA DSM.	[AS SHOWN]
[-4 FT] 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

Modified per various Maser record survey drawings

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

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.

REVISIONS

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

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

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

JOB NO. 11176098

STATE OF NEW YORK — JACK G. WITSIL — LICENSED PROFESSIONAL ENGINEER — No. 65305

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

TOP OF SOLIDIFICATION

Scale: AS SHOWN | Date: APRIL 2011 | DWG-8A

Only copies from the original of this drawing that are signed, sealed and dated shall be considered to be valid copies.

This drawing was originally created in color. Any reproduction in black and white may obscure the color drawing itself.

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\REVISED NOVEMBER\DWG-8A.dwg, Layout1, 1:2, 11/10/11 -1-RAL

NATIONAL GRID
FORMER MGP SITE

PROPOSED EXCAVATION AREAS

Solidification performed instead of excavation

Shifted Down

Treatment area modified

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

UTILITY CORRIDOR (HAND-EXPOSE UTILITIES)

INC. VILLAGE OF GARDEN CITY
INC. VILLAGE OF HEMPSTEAD

WYDLER PLACE
WENDELL STREET
SEALEY AVENUE
INTERSECTION STREET

NATURAL GAS REGULATOR STATION
COOLING SPRAY POND
RECEIVING RESERVOIR
PUMP HOUSE
RETURN SUMP
OLD LIQUID PROPANE TANK AREA (REMOVED 11/08)
TAR TANK
BOILER ROOM
RECHARGE BASIN
OIL STORAGE TERMINAL
PROFESSIONAL OFFICE BUILDING
PARKING
OFFICE

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.

50' 0 50'
SCALE IN FEET

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

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.

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

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

JOB NO. 11176098

STATE OF NEW YORK — JACK R. WISSEL — No. 66326 — LICENSED PROFESSIONAL ENGINEER

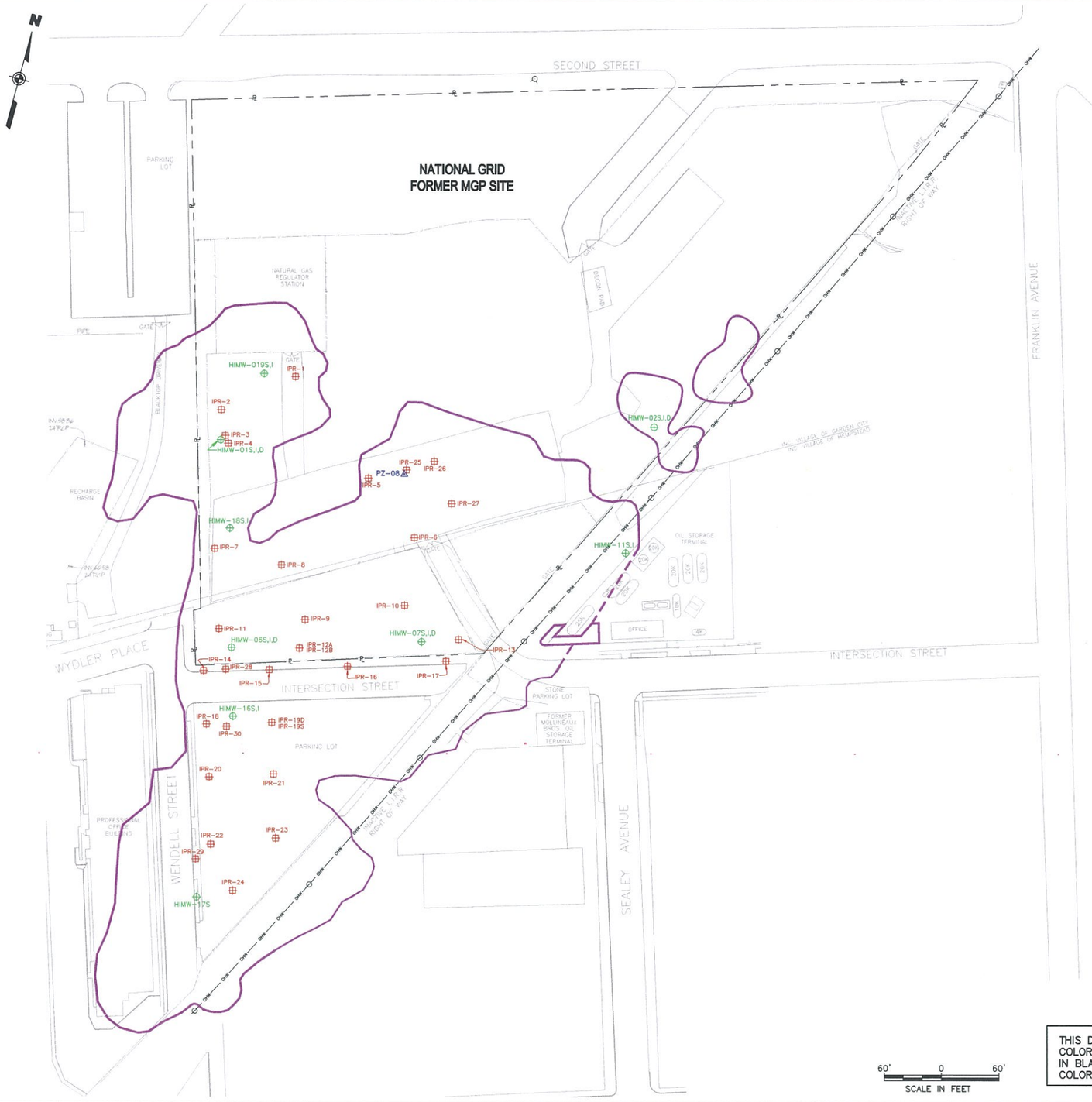
nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

BOTTOM OF SOLIDIFICATION

Scale: AS SHOWN | Date: APRIL 2011 | DWG-9A

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG-9A.dwg, Layout1, 1:1, 9/9/11 -1-RAL



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

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.

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)	Screened Depths 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:

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

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.

REVISIONS

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

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

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

JOB NO. 11176098

STATE OF NEW YORK — ANDREW R. WILKINS — No. 66338 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

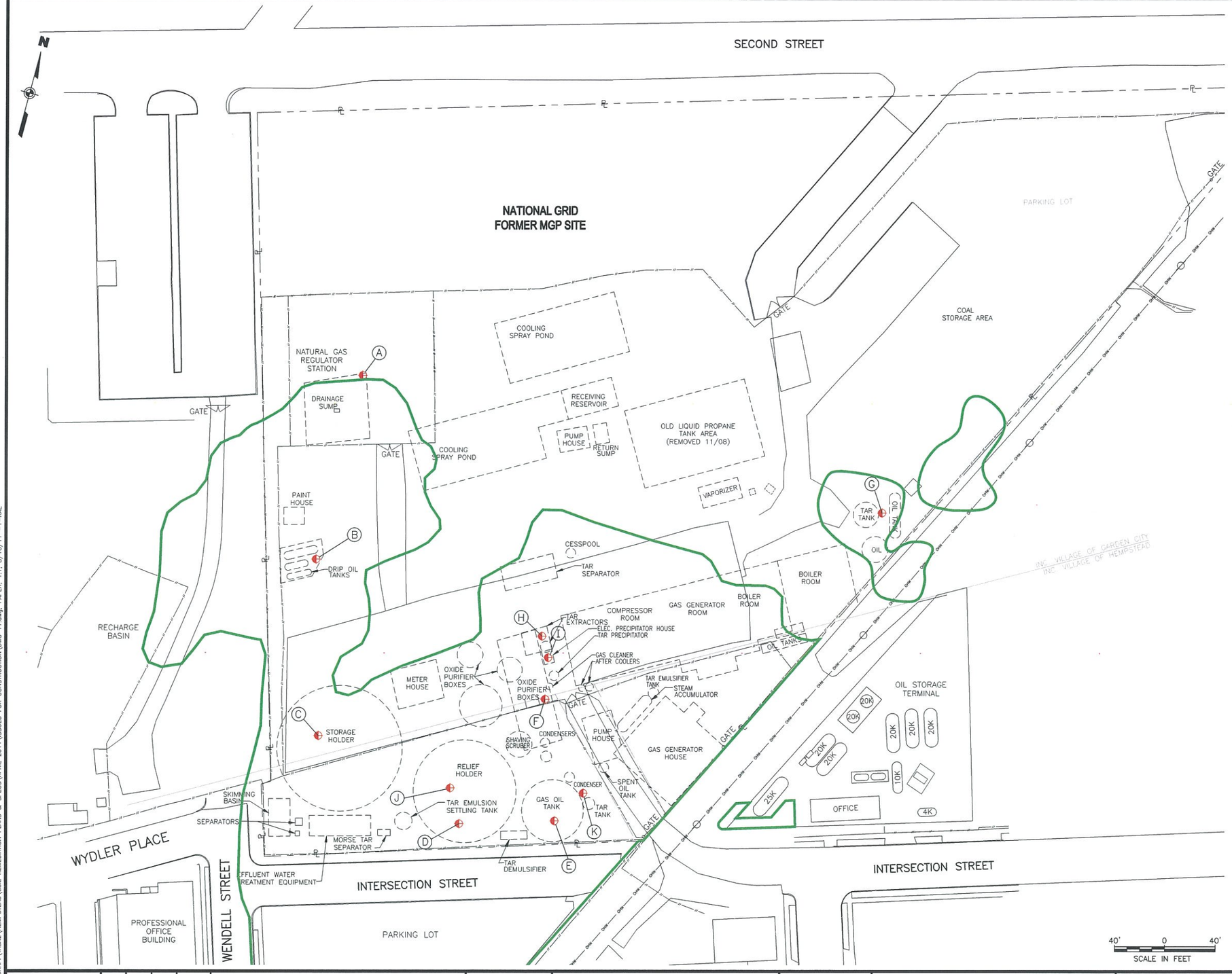
THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

WELL DECOMMISSIONING PLAN

Scale: AS SHOWN | Date: APRIL 2011 | DWG–10

Only copies from the original of this drawing that are marked with the original seal and signature of the engineer are authorized.
The drawing was computer generated and any changes and/or revisions should be made only to the original computer file.

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 10.dwg, PAPER, 1:1, 9/9/11 -1-RAL



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/FOUNDATON

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.

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

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

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

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

JOB NO. 11176098

STATE OF NEW YORK — JACK R. WISSE — No. 66326 — CERTIFIED PROFESSIONAL ENGINEER

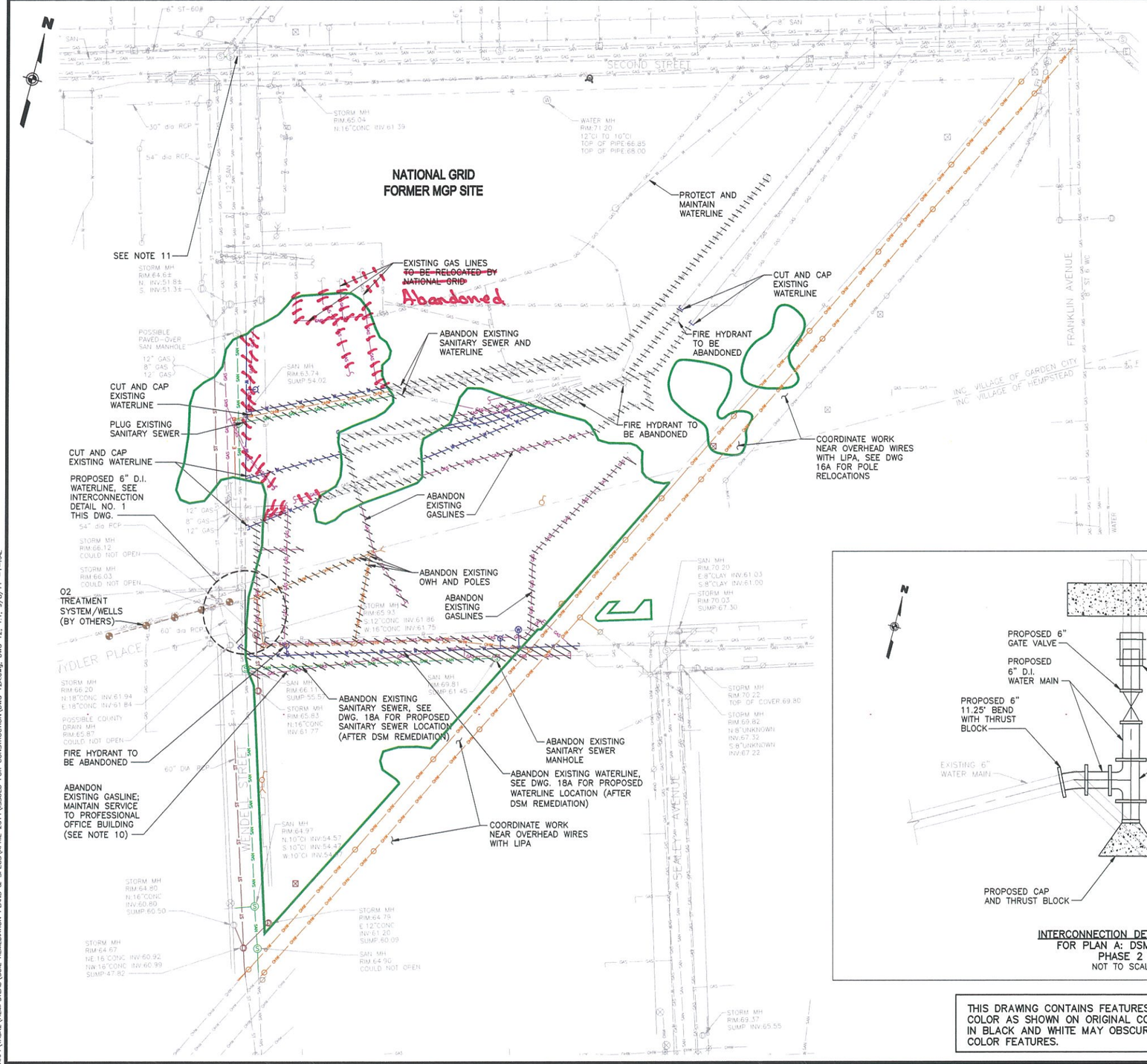
nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

INFRASTRUCTURE
DECOMMISSIONING PLAN

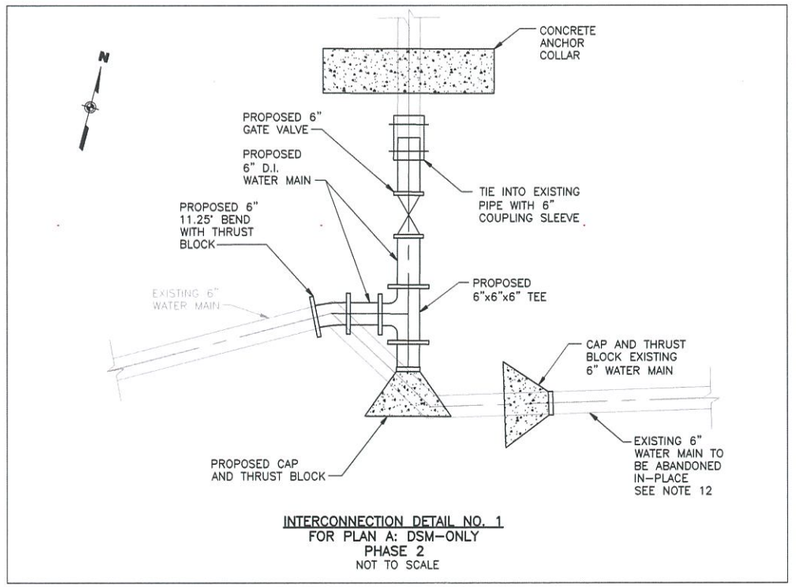
Scale: AS SHOWN | Date: APRIL 2011 | DWG-11

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 11.dwg, PAPER, 1:1, 8/16/11 -1-RAL



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. 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.
3. 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.
4. SEE DWG-26 FOR UTILITY ABANDONMENT DETAILS. REMOVE ONLY THE PORTION OF UNDERGROUND UTILITY THAT CONFLICTS WITH REMEDIATION WORK LIMITS.
5. SEE DWG-4 FOR SURVEY AND RECORD PLAN SOURCE INFORMATION.
6. FOR LOCATION OF EXISTING TREES, SEE DWG-3.
7. 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.
8. 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.
9. CONTRACTOR SHALL ACQUIRE ALL REQUIRED PERMITS FROM THE VILLAGE OF HEMPSTEAD AND GARDEN CITY PRIOR TO ANY CONSTRUCTION OF WATERLINE OR SANITARY SEWER.
10. (2) 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.
11. 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.
12. THIS DRAWING SHOWS DETAILS FOR ABANDONMENT OF EXISTING 6"ø 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.



INTERCONNECTION DETAIL NO. 1
FOR PLAN A: DSM-ONLY
PHASE 2
NOT TO SCALE

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 LINE TAKEN FROM REFERENCE DRAWINGS PROVIDED BY NATIONAL GRID
- UNDERGROUND ELECTRIC LINE
- OVERHEAD ELECTRIC LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- TELEPHONE LINE
- 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

60' 0 60'
SCALE IN FEET

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

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.

REVISIONS

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

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

JOB NO. 11176098

STATE OF NEW YORK — JACK R. WITSIL — No. 063726 — LICENSED PROFESSIONAL ENGINEER

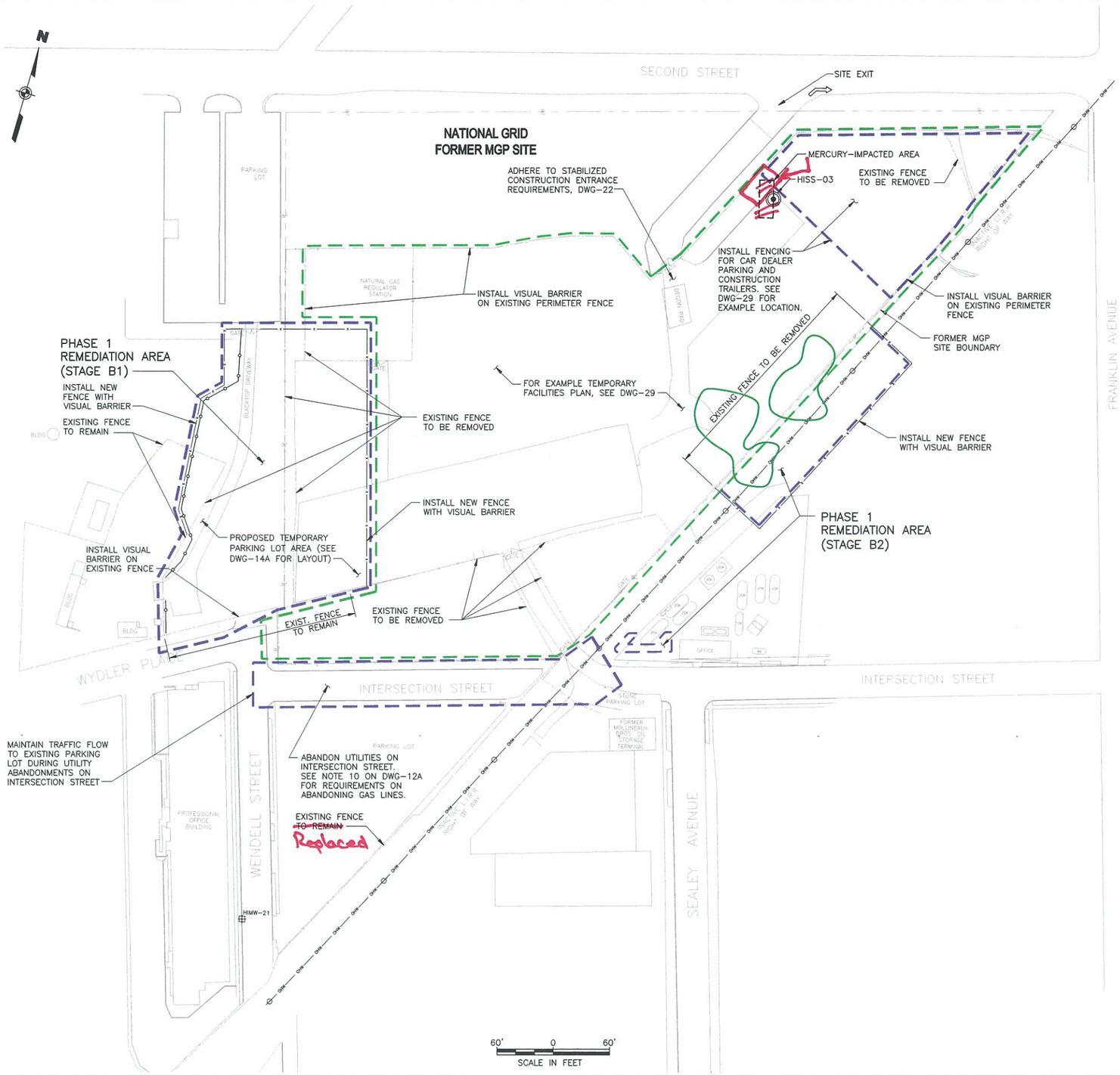
nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

UTILITY PROTECTION AND DECOMMISSIONING PLAN

Scale: AS SHOWN | Date: APRIL 2011 | DWG-12A

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 12A.dwg, DWG 12, 1:1, 9/8/11 -1-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. (2) 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.

LEGEND:

- STAGE A LIMITS
- STAGE B LIMITS
- PROPOSED TEMPORARY FENCE WITH VISUAL BARRIER
- PROPOSED EROSION/SEDIMENT CONTROL MEASURES
- EXISTING FENCE
- LOCATION OF EXISTING STRUCTURE OR ROAD
- LIMIT OF MGP SOURCE MATERIAL TREATMENT

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.
- (2) REMEDIATE MERCURY IMPACTED AREAS.
- INSTALL SITE FACILITIES, GROUT BATCH PLANT, AND MOBILIZE DEEP SOIL MIXING EQUIPMENT.

STAGE B
- 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.
- (2) 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.

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

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	RJP	JAS	8/2011	NOTES REVISED FOR DRAWING REFERENCES
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
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176098

STATE OF NEW YORK — JACK F. WILSON — No. 66338 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

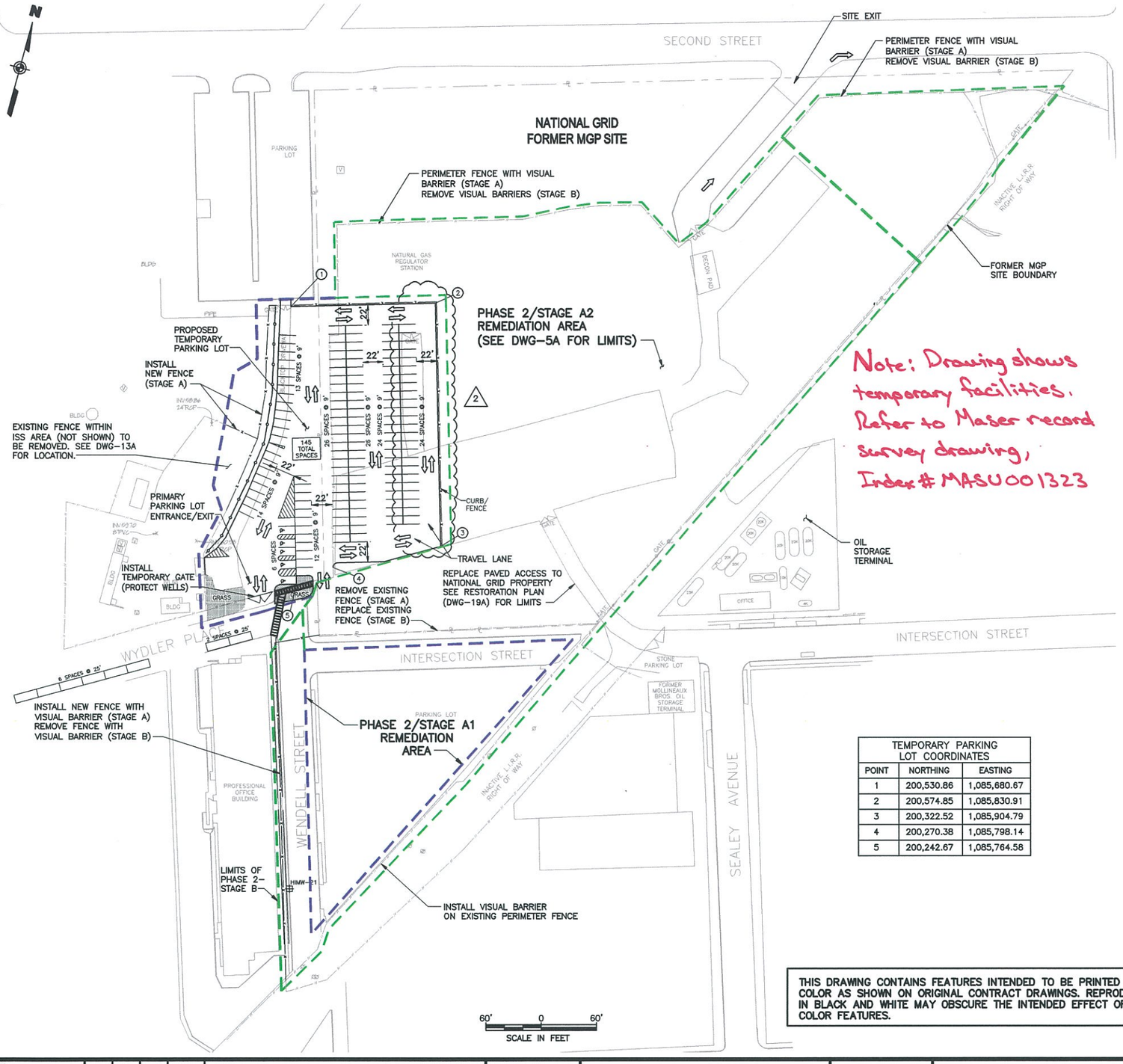
THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

CONSTRUCTION SEQUENCING PLAN (SHEET 1 OF 2)

Scale: AS SHOWN | Date: APRIL 2011 | DWG-13A

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 13A.dwg 1:1 9/9/11 - 4 RAL

This drawing was produced using an electronic medium. Any changes and/or revisions made to this drawing subsequent to the original issue date will not be the responsibility of the original author.



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

TEMPORARY PARKING LOT COORDINATES		
POINT	NORTHING	EASTING
1	200,530.86	1,085,680.67
2	200,574.85	1,085,830.91
3	200,322.52	1,085,904.79
4	200,270.38	1,085,798.14
5	200,242.67	1,085,764.58

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.

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. SEE DWG-25 FOR CONCRETE CURB, SIDEWALK, AND DRIVEWAY APPROACH DETAILS.
5. SEE DWGS-27 & 28 FOR PARKING LOT LIGHTING PLAN AND DETAILS.
6. TEMPORARY FENCE WITH VISUAL BARRIER ASSOCIATED WITH THE TEMPORARY PARKING LOT SHALL BE INSTALLED PRIOR TO THE START OF STAGE A.
7. TREE PROTECTION ZONE NOT SHOWN. REFER TO SPECIFICATION SECTION 02231 FOR REQUIRED LIMITS.
8. FOR LOCATION OF EXISTING TREES, SEE DWG-3.
9. FOR FINAL GRADING OF PROPOSED TEMPORARY PARKING LOT, SEE DWG-18A.
10. FOR STABILIZED CONSTRUCTION ENTRANCE DETAIL, SEE DWG-22.
11. 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.
12. 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.
13. GROUND LIGHTING SYSTEM PER NEC.
14. 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.

LEGEND:

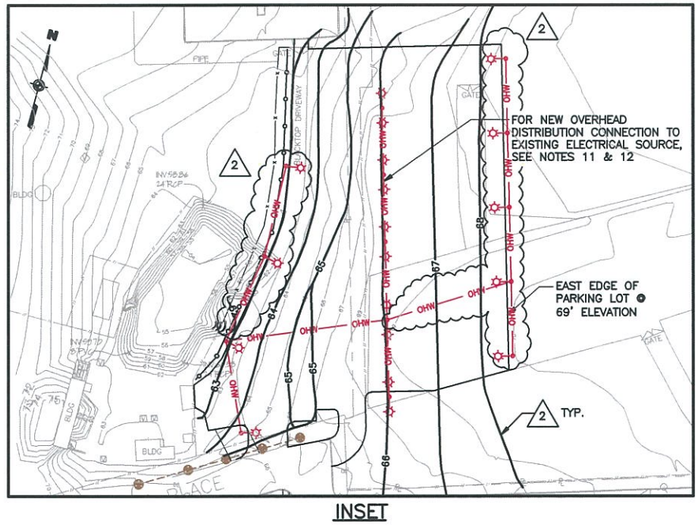
- STAGE A LIMITS
- STAGE B LIMITS
- PROPOSED TEMPORARY FENCE WITH VISUAL BARRIER
- PROPOSED EROSION/SEDIMENT CONTROL MEASURES
- PROPOSED PARKING LOT LIGHTING
- PROPOSED OVERHEAD ELECTRIC LINE
- EXISTING FENCE
- LOCATION OF EXISTING STRUCTURE OR ROAD
- PROPOSED CONTOUR
- EXISTING CONTOUR

Adjusted per DWG-13A

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 SOURSE MATERIAL AND FORMER MGP STRUCTURES, PHASE 2/STAGE A2 AREA.
- DSM STAGE A2 AREA. (DWG-5A)

STAGE B
- RESTORE PHASE 2/STAGE A1 AREA 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.



INSET

60' 0 60'
SCALE IN FEET

ISSUED FOR CONSTRUCTION

Only copies from the original of this drawing that are signed and sealed by the Professional Engineer and Engineer shall be considered as true valid copies.

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	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

REVISIONS

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

URS Corporation
New York
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax
JOB NO. 11176098

STATE OF NEW YORK — MICHAEL E. WISSERT — No. 66336 — LICENSED PROFESSIONAL ENGINEER

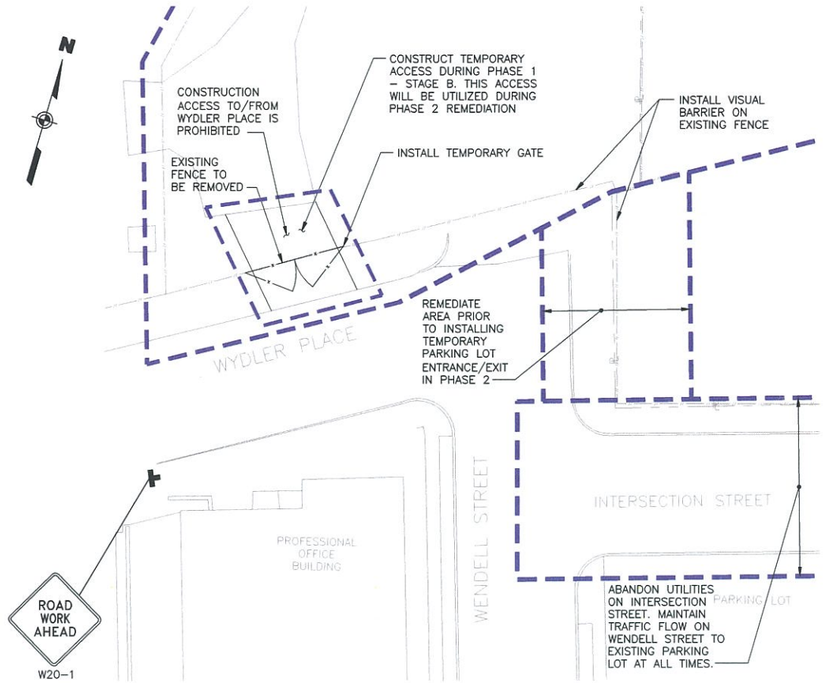
nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

CONSTRUCTION SEQUENCING PLAN (SHEET 2 OF 2)

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

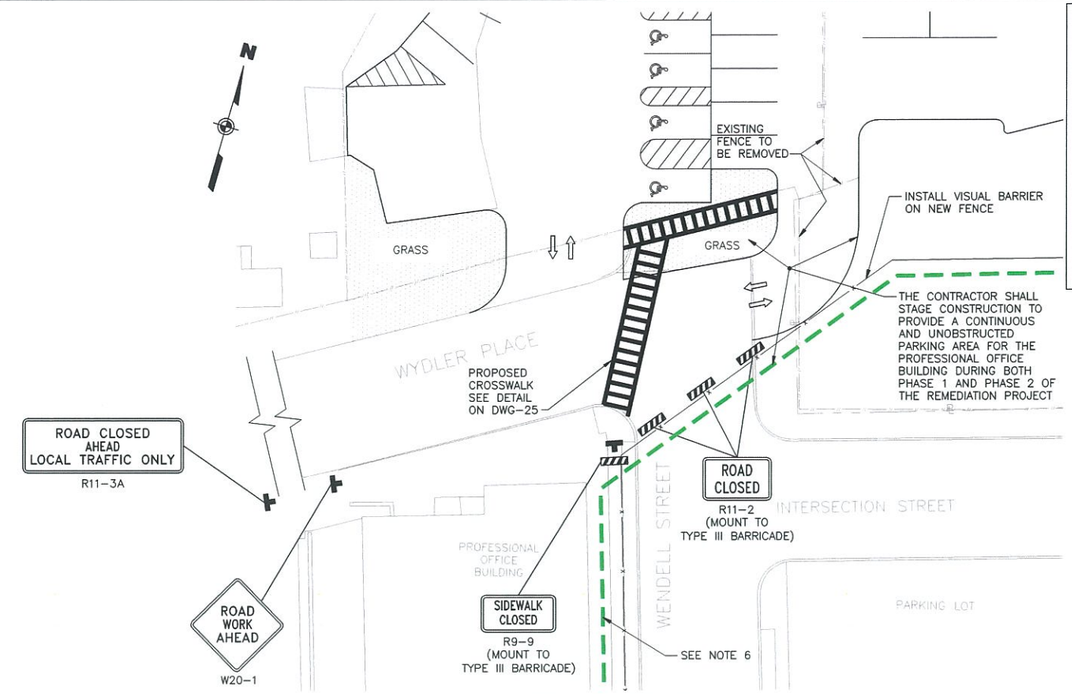
This drawing was computer generated and any unauthorized alterations will be made to the CADD drawing file.



PHASE 1 TRAFFIC PLAN

20' 0 20'

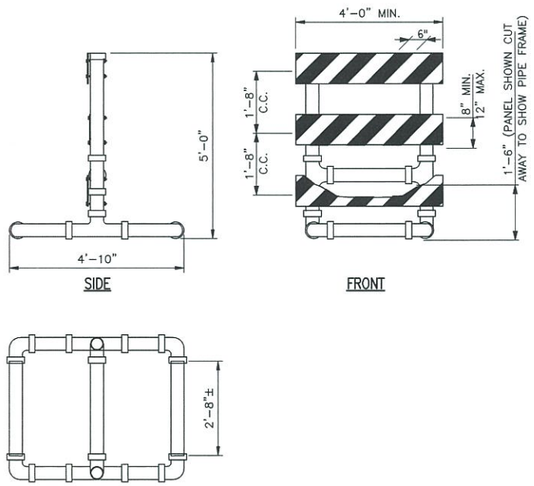
SCALE IN FEET



PHASE 2 TRAFFIC PLAN

20' 0 20'

SCALE IN FEET



TYPE III CONSTRUCTION BARRICADE

0' 2' 4'

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 NYSDOT 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.

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	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
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176098

STATE OF NEW YORK — JACK E. WILCOX — No. 84035 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

TRAFFIC PLAN FOR CONSTRUCTION

Scale: AS SHOWN | Date: APRIL 2011 | DWG-15A

J:\11175065.0000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 15A.dwg 1:1 9/9/11 - 4 RAL

NATIONAL GRID
FORMER MGP SITE

TEMPORARY CONTAINMENT BUILDING IS PROHIBITED FROM AREA OF NATURAL GAS REGULATOR STATION UNLESS APPROVED IN WRITING BY NATIONAL GRID

DEEP POCKET AREA EXCAVATION (SEE NOTE 19) 3 14± FT. BGS

Deep Pocket Eliminated

ALL NECESSARY CONSTRUCTION RAMP(S) NOT SHOWN. CONTRACTOR SHALL PROPOSE LOCATION(S)

SHALLOW SURFACE SOIL EXCAVATION AREAS, MINIMUM LIMITS (FURTHER DELINEATION TO BE PERFORMED BY OTHERS)

OPEN CUT EXCAVATION (TYP.) (SEE NOTE 2)

EXCAVATE TO 1' BGS

SEE NOTE 2

TOP OF SLOPE

TOE OF SLOPE

1V:1.5H (TYP.)

Ramp Not Constructed

LOCATION OF TOP OF SLOPE DEPENDENT ON DEPTH OF EXCAVATION

Solidification performed instead of excavation

POLE TO BE MOVED, BY OTHERS

12' WIDE SOIL-CRETE WALL CONSTRUCT 3' BELOW BOTTOM OF EXCAVATION.

Soil crete Wall not constructed

EXCAVATION VARIES (11' BGS MAX)

POLE TO BE MOVED, BY OTHERS

Note: See multiple NE Area Sequence drawings

Limits modified per Engineer field direction

EXCAVATE TO SLOPED SURFACE MATCHING REQUIRED TOP OF ISS CONTOURS SHOWN ON DWG-16A-1 (SEE NOTE 3) 3

NO SOLIDIFICATION PERMITTED, WITHIN 10' OF POLE (TYP.)

NO EXCAVATION PERMITTED WITHIN 25' OF POLE, (TYP.)

EXCAVATION PROHIBITED

SEE NOTE 12

OIL STORAGE TERMINAL

OFFICE

4K

PROPOSED TEMPORARY GABION BARRIER

Gabion Wall not constructed. See drawing 17A and 21.2.

INITIAL 4 FT. EXCAVATION PRIOR TO SOIL-CRETE RETAINING WALL CONSTRUCTION (IF REQUIRED PER APPROVED CONSTRUCTION SEQUENCE)

SOIL-CRETE SHORED EXCAVATION. APPROX. 4 FT. BGS, (TYP.) 3

1V:1.5H (4-FT EXCAVATION)

WYDLER PLACE

INTERSECTION STREET

STONE PARKING LOT

FORMER MOLLINEAUX BROS. OIL STORAGE TERMINAL

1V:1.5H (TYP.)

INITIAL RAMP 10% SLOPE

FINAL RAMP 10% SLOPE

4 FT. EXCAVATION (EXTERIOR) SIDESLOPE PRIOR TO SOIL-CRETE RETAINING WALL CONSTRUCTION (SEE NOTE 13)

NO SOLIDIFICATION PERMITTED WITHIN 10' OF POLE (TYP.)

EXAMPLE SOLIDIFICATION STRIP (SEE NOTE 17)

EXCAVATE BUT DO NOT TREAT 3

Treatment Area Modified

EXCAVATE TO SLOPED SURFACE MATCHING REQUIRED TOP OF ISS CONTOURS SHOWN ON DWG-16A-1 (SEE NOTE 16) 3

NO EXCAVATION PERMITTED WITHIN 25' OF POLE, (TYP.)

Soil crete wall limits modified per Maser record survey drawing, Index # MASU001075

SEALEY AVE.

PROFESSIONAL OFFICE BUILDING

WENDELL STREET

MW-21

Note: See multiple POB Treatment Sequence drawings

40' 0 40'
SCALE IN FEET

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

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. 3 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.

Only copies from the original of this drawing that are signed and sealed in red ink by the Engineer, shall be considered as the valid copies.

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.

REVISIONS

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

URS Corporation
New York
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 • (716)856-2545 fax
JOB NO. 11176098

STATE OF NEW YORK — JACK R. HUNTER — LICENSED PROFESSIONAL ENGINEER — No. 85309

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

EXCAVATION PLAN

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

The drawing and computer generated data hereon is the property of URS Corporation and is not to be used in whole or in part for any other project without written authorization of URS Corporation.

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\REVISED NOVEMBER\DWG 16A.dwg, DWG-16A, 1:2, 11/10/11 -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.)

PROPOSED TOP OF EXCAVATED SURFACE (TYP.)

PROPOSED SOIL-CREET WALL

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.

40' 0 40'
SCALE IN FEET

Only copies from the original of this drawing that are signed and sealed by a licensed Professional Engineer shall be considered to be valid copies.

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.

REVISIONS

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

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

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

JOB NO. 11176098

STATE OF NEW YORK — JACK E. WILKES — LICENSED PROFESSIONAL ENGINEER — No. 55396

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

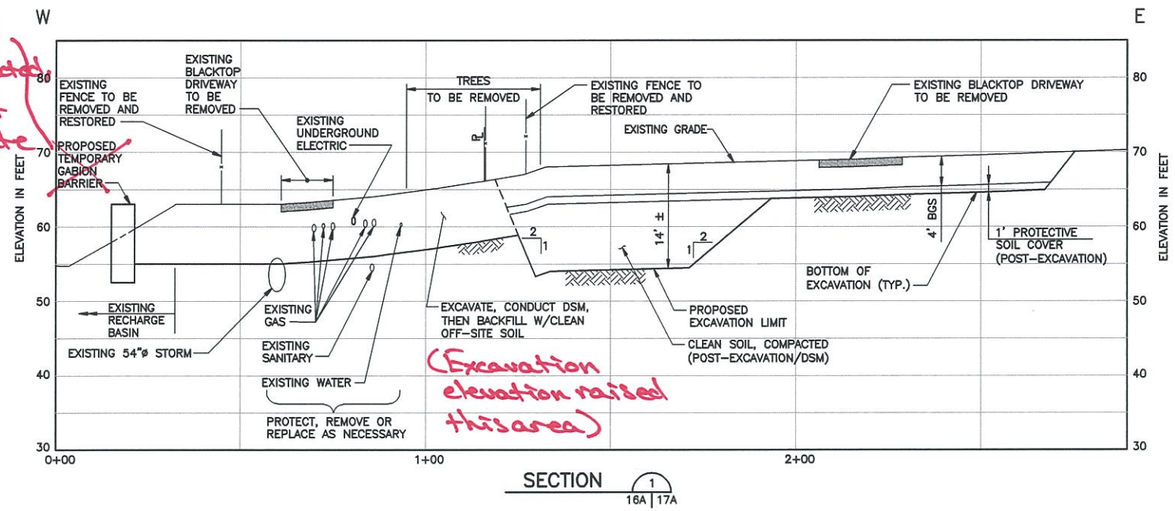
PROPOSED EXCAVATION CONTOURING △1

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

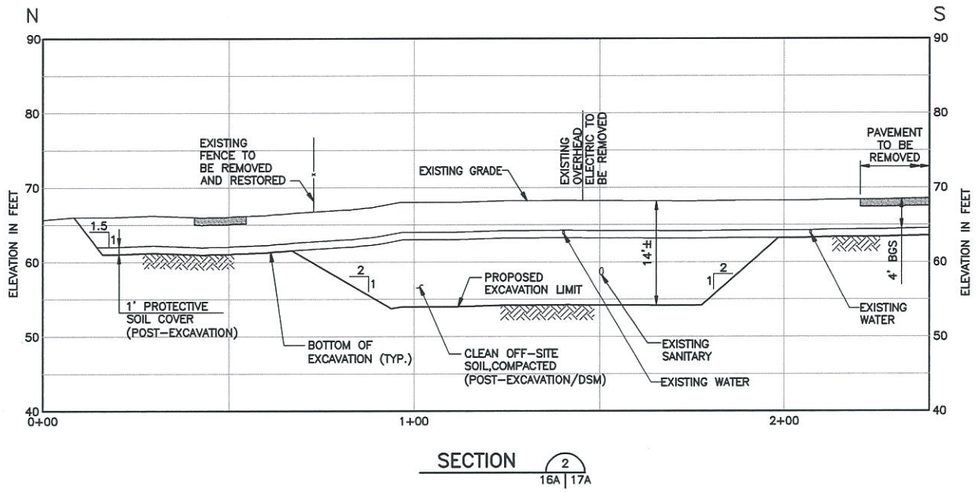
This drawing was computer generated and its contents shall not be altered by users to the CAD drawing file.

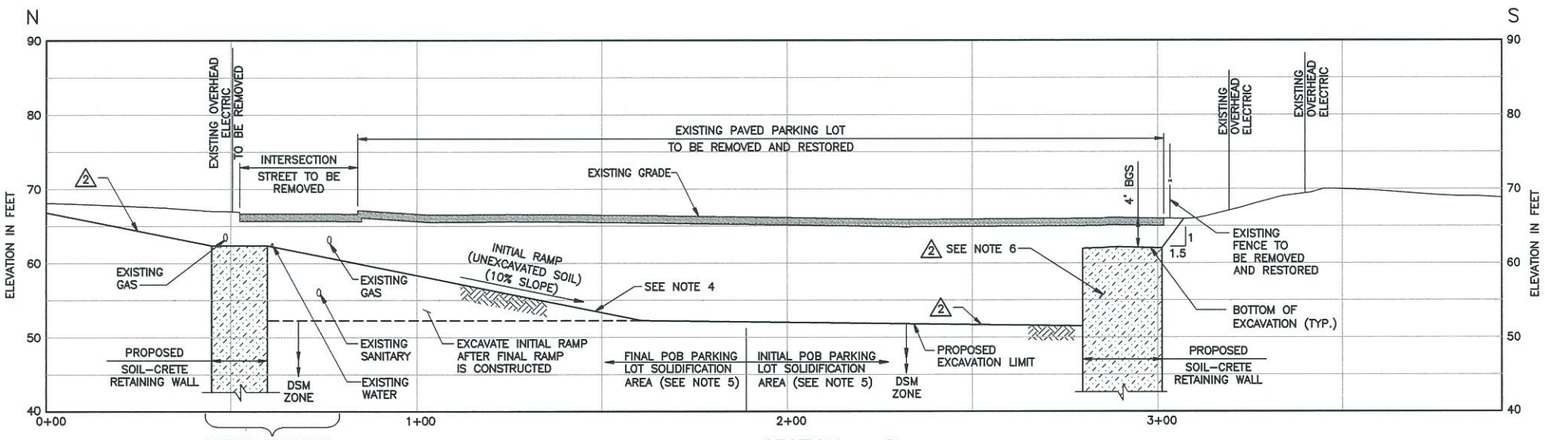
J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\REVISED NOVEMBER\DWG 16A-1.dwg, PAPER: 1:2, 11/9/11 -1-RAL

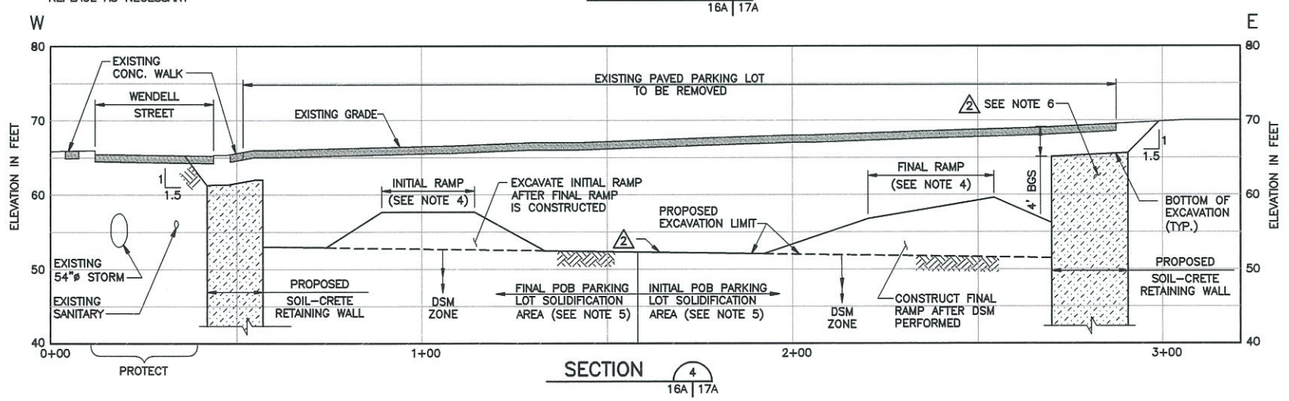
Gabion wall not constructed, berm built as alternate



(Excavation elevation raised this area)







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 NYSDOTSS, 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 RAMPS. 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.

Vertical relief drains installed instead of weep holes.

20' 0 20'
HORIZ: SCALE IN FEET

10' 0 10'
VERT: SCALE IN FEET

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	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

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

JOB NO. 11176098

STATE OF NEW YORK — JACK E. WITTEL — LICENSED PROFESSIONAL ENGINEER — No. 65296

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

EXCAVATION CROSS SECTIONS

Scale: AS SHOWN | Date: APRIL 2011 | DWG-17A

Only copies from the original of this drawing that are signed and sealed and have the wet seal of the Engineer, shall be considered as true valid copies.

This drawing was originally produced at a size of 24"x36". Verify the size before using it for scaling.

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\REVISED NOVEMBER\DWG 17A.dwg 11/10/11 - 4 RAL

CHANGE ELEVATION OF MANHOLE TO PROPOSED GRADE RIM 65.75 SUMP 55.57

PROPOSED STOP SIGN

CB #9 RIM 65.25 S. INV. ~~62.25~~ 62.90 W. INV. 62.80

PROP. 28 LF OF 12"ø HDPE @ 0.30%

PROPOSED 6" D.I. WATERLINE, SEE INTERCONNECTION DETAIL NO. 3 THIS DWG.

NATIONAL GRID FORMER MGP SITE

SEE SITE RESTORATION PHASE 2 (DWG-19A) FOR FINAL GRADING AND RESTORATION DETAILS

PROPOSED SAMPLE POINT (SEE DWG-26.1A)

PROPOSED 6" D.I. WATERLINE, SEE INTERCONNECTION DETAIL NO. 2 THIS DWG.

PROP. 35 LF OF 15"ø HDPE @ 0.20%

CB #10 RIM 65.75 E. INV. 62.75

END PROPOSED CURB

PROP. 8 LF OF 12"ø HDPE @ 0.30%

NEW GAS LINE (TO BE INSTALLED BY OTHERS)

PROP. 6" D.I. WATERLINE

PROP. FIRE HYDRANT (TYP.)

CB #8 RIM 65.25 S. INV. 62.85 N. INV. 63.05

PROP. 16 LF OF 12"ø HDPE @ 0.75%

EXIST. ST MH RIM 65.87 INV. 48.54 W. INV. 62.73 E. INV. 62.73

PROP. 15 LF OF 12"ø HDPE @ 0.30%

CB #7 RIM 65.25 E. INV. ~~62.25~~ 63.20

PROP. 10 LF OF 12"ø HDPE @ 0.30%

PROP. WATER VALVE (TYP.)

TC 68.10 BC 67.60

TC 68.80 BC 68.30

TC 68.99 BC 68.49

EXIST. MH RIM 65.87 INV. 47.87 S: INV. 62.87 NW: INV. 63.12

PROPOSED 260 LF OF 8" DIA. SANITARY SEWER @ 2.26%

TC 65.75 BC 65.25

PROP. 139 LF OF 12"ø HDPE @ 0.30%

TC 67.40 BC 66.90

CB #3 (DRY WELL – SEE NOTE 7) RIM 65.25 E. INV. ~~62.00~~ 63.23 W. INV. ~~61.80~~ 63.17 N. INV. ~~63.12~~ WELL OPEN ELEV. (BOTTOM) 61.33

SHALL BE REMOVED

TC 68.60 BC 68.10

RESTORE SITE IN LIRR RIGHT-OF-WAY TO EXISTING CONDITIONS

TC 66.10 BC 66.10

CB #2 (DRY WELL – SEE NOTE 7) RIM 66.92 W. INV. ~~62.72~~ WELL OPEN ELEV. (BOTTOM) 63.00

DW #1 (SEE NOTE 8) RIM 66.0 WELL OPEN ELEV. (BOTTOM) 54.92

DW #2 (SEE NOTE 8) RIM 66.0 WELL OPEN ELEV. (BOTTOM) 54.92

DW #3 (SEE NOTE 8) RIM 66.0 WELL OPEN ELEV. (BOTTOM) 54.92

DW #4 (SEE NOTE 8) RIM 65.9 WELL OPEN ELEV. (BOTTOM) 54.87

DW #5 (SEE NOTE 8) RIM 65.9 WELL OPEN ELEV. (BOTTOM) 54.82

DW #6 (SEE NOTE 8) RIM 65.8 WELL OPEN ELEV. (BOTTOM) 54.77

DW #7 (SEE NOTE 8) RIM 65.8 WELL OPEN ELEV. (BOTTOM) 54.72

PROPOSED CROSSWALK

DW #8 (SEE NOTE 8) RIM 66.6 WELL OPEN ELEV. (BOTTOM) 55.52

CB #1 (DRY WELL – SEE NOTE 7) RIM 66.50 S. INV. ~~63.50~~ WELL OPEN ELEV. (BOTTOM) 62.58

DW #9 (SEE NOTE 8) RIM 66.2 WELL OPEN ELEV. (BOTTOM) 55.12

TC 65.40 BC 64.90

CB #5 RIM 64.25 S. INV. ~~61.25~~ 61.63 N. INV. 61.73

PROP. 35 LF OF 12"ø HDPE @ 0.30%

PROP. 138 LF OF 12"ø HDPE @ 1.30%

CB #4 (DRY WELL – SEE NOTE 7) RIM 64.90 N. INV. ~~61.90~~ S. INV. ~~61.80~~ WELL OPEN ELEV. (BOTTOM) 60.98

GRAVEL NOT SHOWN FOR CLARITY

CB #6 RIM 64.85 S. INV. 61.25 N. INV. 61.53

PROP. 10 LF OF 12"ø HDPE @ 0.30%

PROP. 28 LF OF 12"ø HDPE @ 0.27%

EXIST. STORM MH RIM:64.80 N:16"CONC INV:60.80 SUMP:60.50

EXIST. STORM MH RIM:64.79 E:12"CONC INV:61.20 SUMP:60.99

ABANDON MANHOLE

ALTER EXISTING DRAINAGE MANHOLE (TYP.)

CHANGE ELEVATION OF EXISTING MANHOLE TO PROPOSED GRADE (TYP.) RIM 64.75

EXIST. STORM MH RIM:64.67 NE:16"CONC INV:60.92 NW:16"CONC INV:60.99 SUMP:47.82

30' 0 30'
SCALE IN FEET

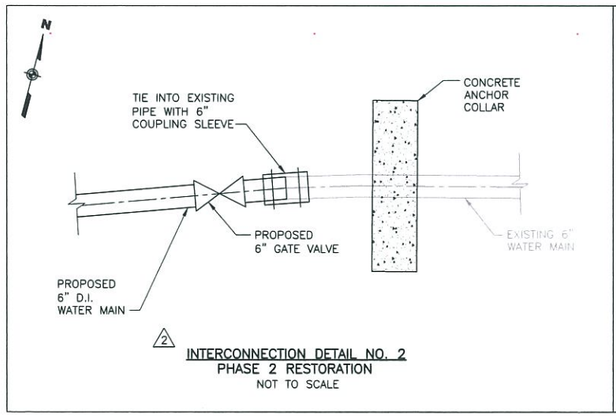
For actual locations and elevations, refer to Maser record survey drawing, Index # MASU001387

LEGEND:

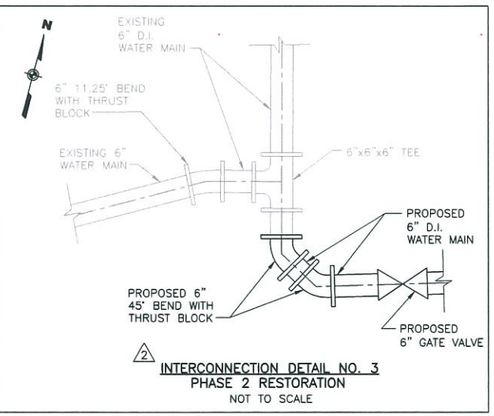
- EXISTING FENCE
- PROPOSED FENCE
- PROPOSED CONCRETE SIDEWALK
- PROPOSED GRAVEL ROCK MULCH ISLAND
- APPROXIMATE PROPERTY LINE
- PROPOSED CATCH BASIN
- ~~PROPOSED TREE~~ (SEE NOTE 9)
- EXISTING STORM MANHOLE
- ST — PROPOSED STORM SEWER LINE
- SAN — PROPOSED SANITARY SEWER LINE
- W — PROPOSED WATERLINE
- 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.



2 INTERCONNECTION DETAIL NO. 2
PHASE 2 RESTORATION
NOT TO SCALE



2 INTERCONNECTION DETAIL NO. 3
PHASE 2 RESTORATION
NOT TO SCALE

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
5	JB	RAL	10/2013	REVISED PROPOSED STORM SEWER, POB LOT DRAINAGE, SANITARY SEWER
4	JB	RMD	9/2013	REVISED PROPOSED STORM SEWER
3	JB	RAL	5/2013	REVISED PROPOSED STORM SEWER
2	RJP	JAS	8/2011	DETAIL TITLE REVISION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

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

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

JOB NO. 11176098

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

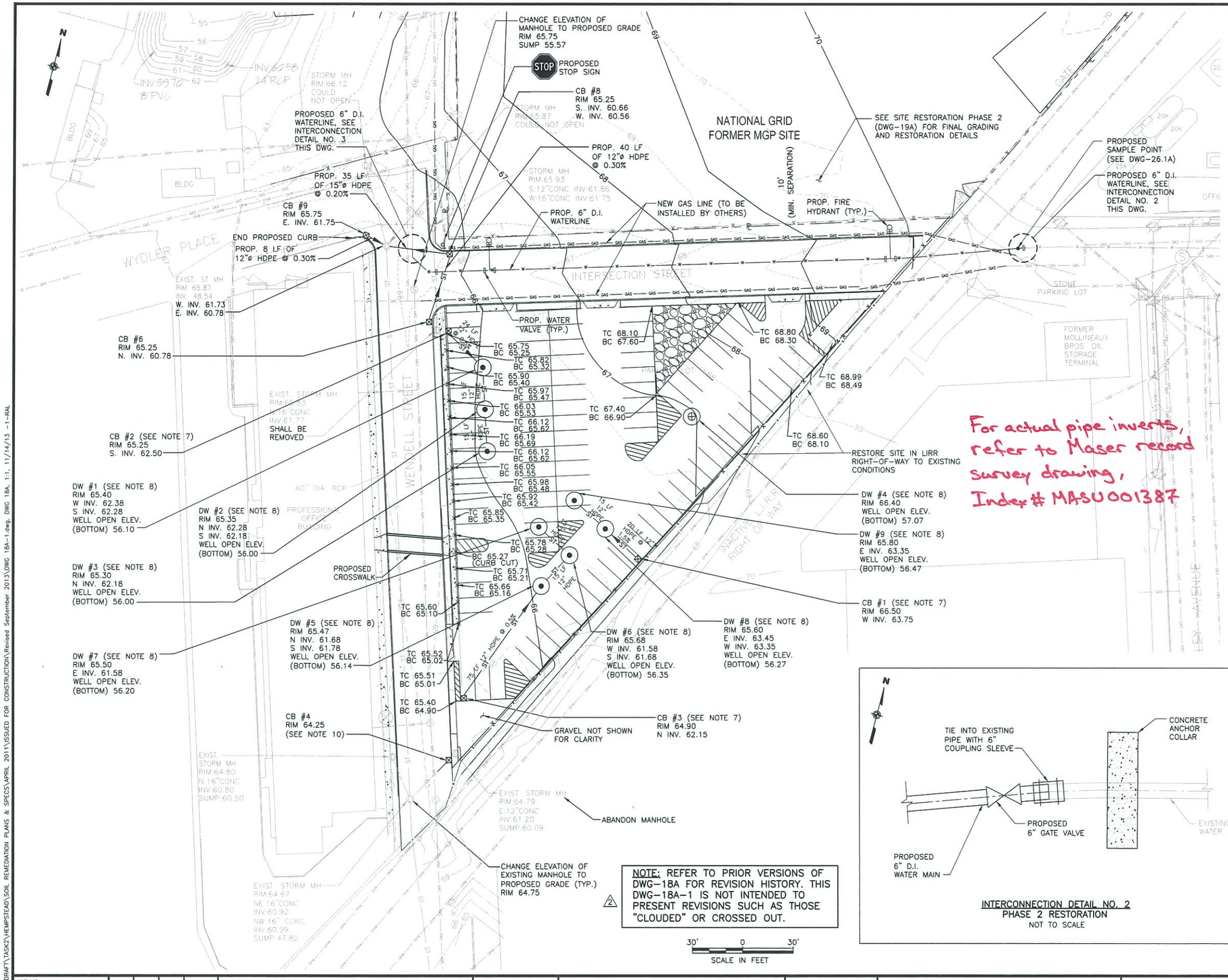
SITE RESTORATION PHASE 1

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

J:\11\1175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\Revised September 2013\DWG 18A.dwg, DWG 18A, 1:1, 10/22/13 -1-RAL

Do not scale from the original of this drawing that was printed with the original seal and signature of the professional engineer and is not signed in blue ink.

This drawing was originally generated by URS Corporation and should not be altered without written authorization.



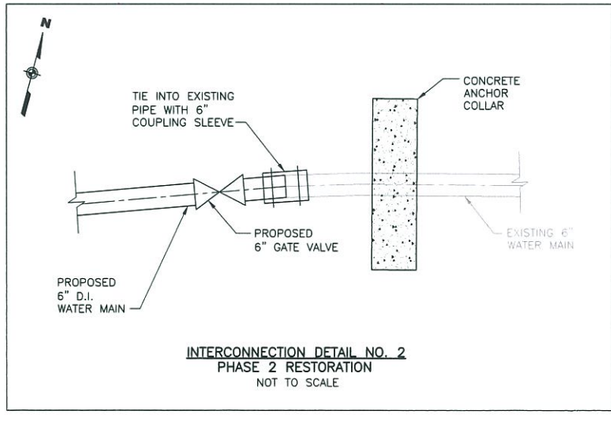
For actual pipe inverts, refer to Maser record survey drawing, Index # MASU001387

LEGEND:

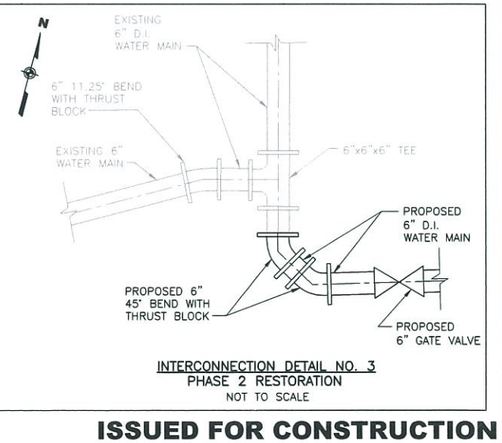
- EXISTING FENCE
- PROPOSED FENCE
- PROPOSED CONCRETE SIDEWALK
- PROPOSED GRAVEL ROCK MULCH ISLAND
- APPROXIMATE PROPERTY LINE
- PROPOSED CATCH BASIN
- EXISTING STORM MANHOLE
- PROPOSED STORM SEWER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED WATERLINE
- PROPOSED GASLINE
- PROPOSED GROUND SURFACE CONTOUR
- EXISTING GROUND SURFACE CONTOUR
- SUBSURFACE DRYWELL
- 10' DIAMETER DRYWELL WITH CAST IRON FRAME & GRATE

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-27 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 BASINS SHOWN ON PLAN CONSIST OF 4 FOOT X 2 ½ FOOT CATCH BASIN CAST IRON FRAME AND OPEN GRATES, 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 FRAME AND OPEN GRATE DW #4 ONLY), AS MANUFACTURED BY LONG ISLAND PRECAST OR EQUAL. DRY WELL RINGS SHALL BE SET AT LEAST 0.7 FEET BELOW PROPOSED PAVEMENT GRADE.
9. ORIGINALLY PROPOSED (PER CONTRACT BID) PARKING LOT LAYOUT AND TREES NOT SHOWN, FOR CLARITY.
10. ENGINEER TO PROVIDE DETAILS FOR CONNECTION OF CB #4 TO EXISTING STORM MANHOLE.
11. REQUIRED PARKING LOT BUMPERS ALONG LIRR ROW NOT SHOWN FOR CLARITY.
12. STORM PIPE TO BE HANCOR AASHTO HDPE PIPE WITH INTERIOR AND EXTERIOR CORRUGATIONS OR EQUAL. PIPE BEDDING SHALL BE UNIFORM STONE FILL. SELECT MATERIAL IN TRENCH TO ROAD SUBBASE SHALL BE SELECT STONE FILL IN ACCORDANCE WITH DETAIL ON DWG. 26.1A.
13. CATCH BASINS (CB) #5 AND #7 HAVE BEEN ELIMINATED FROM THE PLAN.



INTERCONNECTION DETAIL NO. 2
PHASE 2 RESTORATION
NOT TO SCALE



INTERCONNECTION DETAIL NO. 3
PHASE 2 RESTORATION
NOT TO SCALE

NOTE: REFER TO PRIOR VERSIONS OF DWG-18A FOR REVISION HISTORY. THIS DWG-18A-1 IS NOT INTENDED TO PRESENT REVISIONS SUCH AS THOSE "CLOUDED" OR CROSSED OUT.

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	JB	RAL	10/2013	THIS DRAWING IS PRESENTED AS A REVISION TO DWG. 18A FOR CLARITY.
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

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

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

JOB NO. 11176098

STATE OF NEW YORK — CORPORATION — LICENSED PROFESSIONAL ENGINEERS — No. 085

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

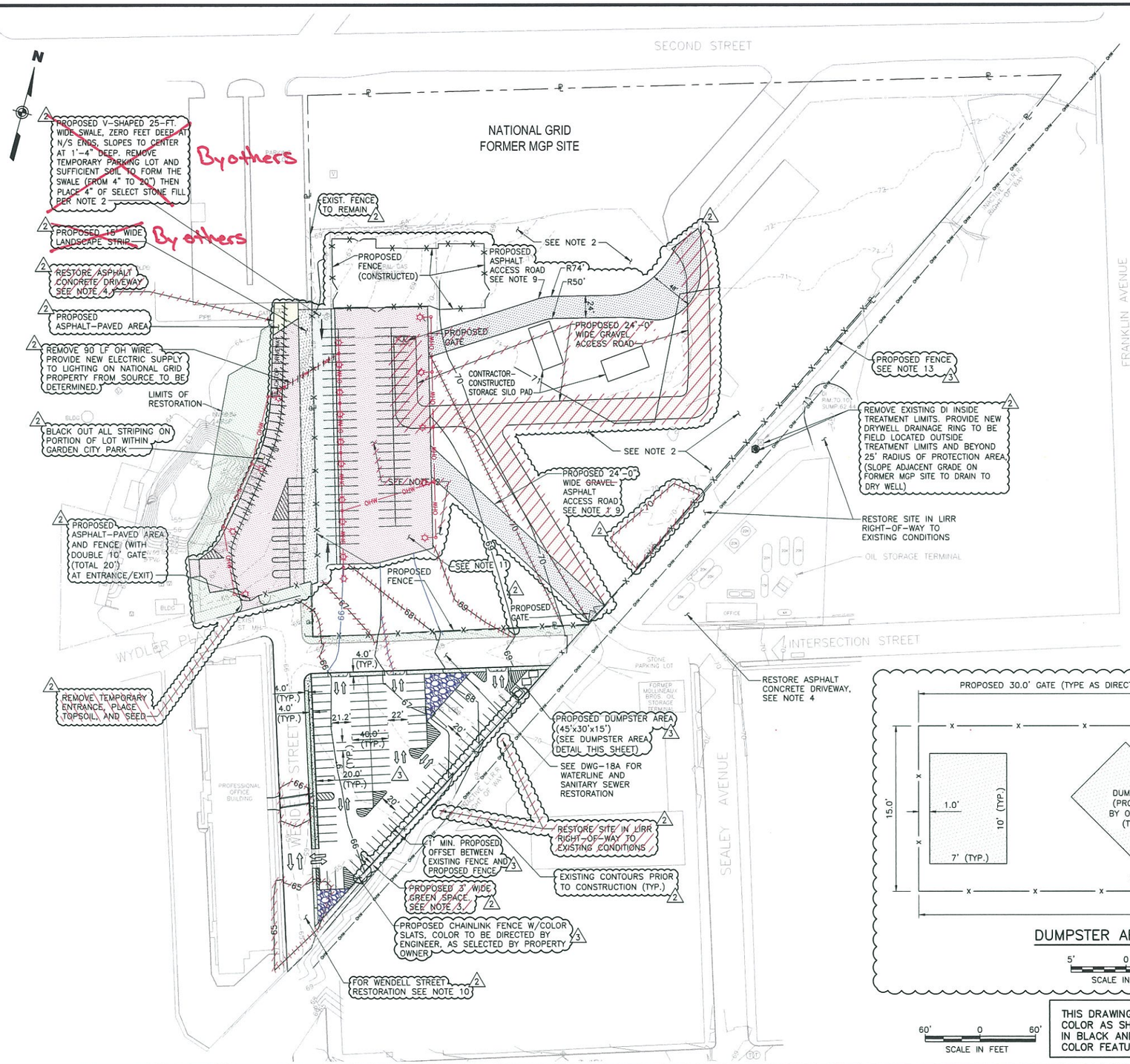
SITE RESTORATION PHASE 1

Scale: AS SHOWN | Date: APRIL 2011 | DWG-18A-1

Only copies from the original of this drawing that are marked with the original seal and signature of the licensed professional engineer shall be considered to be valid copies.

The drawing and computer generated data shall not be changed without the written consent of URS Corporation. Failure to do so will be at user's sole risk and without liability to URS Corporation.

G:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\Revised September 2013\DWG 18A-1.dwg, DWG 18A, 1:1, 11/14/13 -1-RAL



LEGEND:

- EXISTING FENCE
- PROPOSED FENCE
- LANDSCAPED AREA (SEE NOTE 3)
- PROPOSED CONCRETE SIDEWALK
- PROPOSED GRAVEL ACCESS ROAD
- PROPOSED ASPHALT-PAVED AREA
- PROPOSED ASPHALT ACCESS ROAD
- TEMPORARY PARKING LOT TO REMAIN AS FINAL RESTORATION COVER
- TEMPORARY PARKING LOT TO BE REPLACED WITH SPECIFIED FINAL RESTORATION COVER
- PROPOSED 15' WIDE LANDSCAPE STRIP
- PROPOSED GRAVEL ROCK MULCH ISLAND
- 65 — APPROXIMATE CONSTRUCTION CONDITION CONTOURS TO REMAIN AS FINAL CONTOURS EXCEPT WHERE SHOWN TO BE MODIFIED
- 63 — GROUND SURFACE ELEVATION (PRIOR TO CONSTRUCTION)
- 71 — RECORD SURVEY CONTOURS BY CONTRACTOR DATED MARCH 30, 2013
- NOT TO BE CONSTRUCTED. SEE REVISION 2 INSTEAD (NOT ALL CLOUDED, FOR CLARITY)
- PROPOSED REPLACEMENT DRY WELL
- APPROXIMATE PROPERTY LINE
- PROPOSED TREE

By others

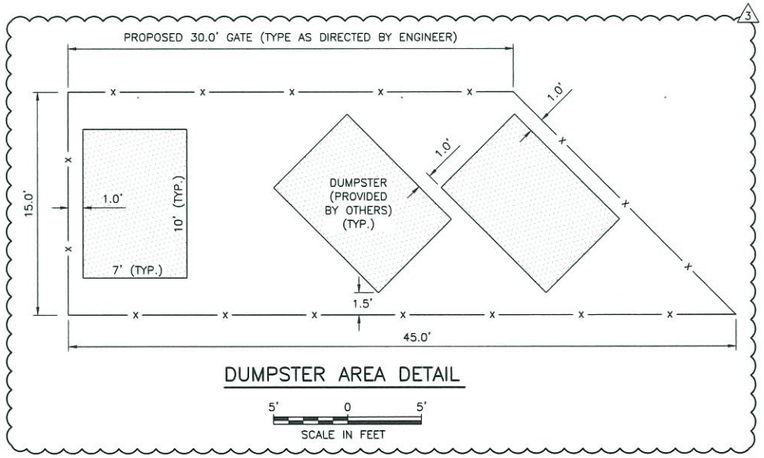
NOTE:
THIS DRAWING SHOWS FEATURES EXISTING PRIOR TO CONSTRUCTION, FEATURES CONSTRUCTED BY THE CONTRACTOR AS OF THE DATE OF THIS DRAWING REVISION, AND PROPOSED FEATURES. PLANTINGS ORIGINALLY PROPOSED FOR CONTRACT HAVE BEEN DELETED FROM THIS SHEET. FOR REVISIONS TO PLANTINGS, SEE DWG-19A-1.

TREE PLANTING SCHEDULE

DESIGNATION	DESCRIPTION
①	CALLERY PEAR "CLEVELAND SELECT"
②	CRAPE MYRTLE "ARAPAHO," "TWILIGHT," "MUSKOGEE"
③	REDBUD
④	REPLACED DAMAGED TREES AS NEEDED AND ONLY AS DIRECTED BY NATIONAL GRID OR THE ENGINEER. REPLACE IN KIND OR SELECT FROM THE FOLLOWING: • RED MAPLE • RED OAK • HONEY LOCUST

NOTES:

1. PROPOSED GRAVEL ACCESS ROAD TO BE A MINIMUM OF 12" SELECT STONE FILL IN ACCORDANCE WITH SPECIFICATION SECTION 02300.
2. WHERE FULL THICKNESS STONE RESTORATION COVER IS DIRECTED BY THE CONSTRUCTION MANAGER, PHASE 2 REMEDIATION AREA INSIDE THE PROPOSED FENCE TO BE RESTORED WITH 4" OF SELECT STONE FILL IN ACCORDANCE WITH SPECIFICATION SECTION 02300. WHERE SUPPLEMENTAL (LESS THAN 4 INCHES) STONE RESTORATION COVER IS DIRECTED BY THE CONSTRUCTION MANAGER, PLACE SELECT STONE FILL TO THE THICKNESS DIRECTED IN ACCORDANCE WITH SPECIFICATION SECTION 02300, AT UNIT PRICE TO BE NEGOTIATED.
3. INSTALL 6" OF TOPSOIL, SEED, AND MULCH LANDSCAPE AREAS, IN ACCORDANCE WITH SPECIFICATION SECTION 02920.
4. RESTORE EXISTING ASPHALT CONCRETE DRIVEWAY WITH 2-1/2" OF BINDER AND 1" OF TOP COURSE IN ACCORDANCE WITH DWG-20.
5. SEE DWG-23 FOR PROPOSED FENCE DETAILS.
6. VISUAL BARRIER SHALL BE REMOVED FROM ALL FENCING.
7. PROPOSED ELECTRICAL/LIGHTING FEATURES NOT SHOWN. REFER TO DWG-14A FOR SUCH FEATURES.
8. PLANT TREES IN ACCORDANCE WITH TREE PLANTING SCHEDULE, (THIS SHEET) IN ACCORDANCE WITH SPECIFICATION SECTION 02930, AND AT FINALLY-APPROVED LOCATIONS. } By others
9. ACCESS ROAD SHALL FOLLOW TEMPORARY PARKING LOT PAVEMENT SECTION SHOWN ON DWG-20. CONSTRUCT FLUSH WITH ADJACENT SELECT STONE FILL GRADE.
10. RESTORE ALL OF WENDELL STREET TO EXISTING STREET GRADES AND MAINTAIN EXISTING MONOLITHIC CONCRETE CURB AND GUTTER. SEE TYPICAL ROADWAY SECTION ON DWG-20.
11. EXISTING CONSTRUCTION GRADES WITHIN TEMPORARY PARKING LOT SHALL BE RETAINED AS FINAL GRADES. GRADING CONTOURS NOT SHOWN FOR CLARITY.
12. ORIGINALLY PROPOSED (PER CONTRACT BID) PARKING LOT LAYOUT AND TREES NOT SHOWN, FOR CLARITY.
13. FENCE HEIGHT ON PERIMETER OF NATIONAL GRID PROPERTY SHALL BE 7 FEET.



DUMPSTER AREA DETAIL

5' 0 5'
SCALE IN FEET

60' 0 60'
SCALE IN FEET

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

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.

REVISIONS

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

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

URS Corporation
New York
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax
JOB NO. 11176098

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

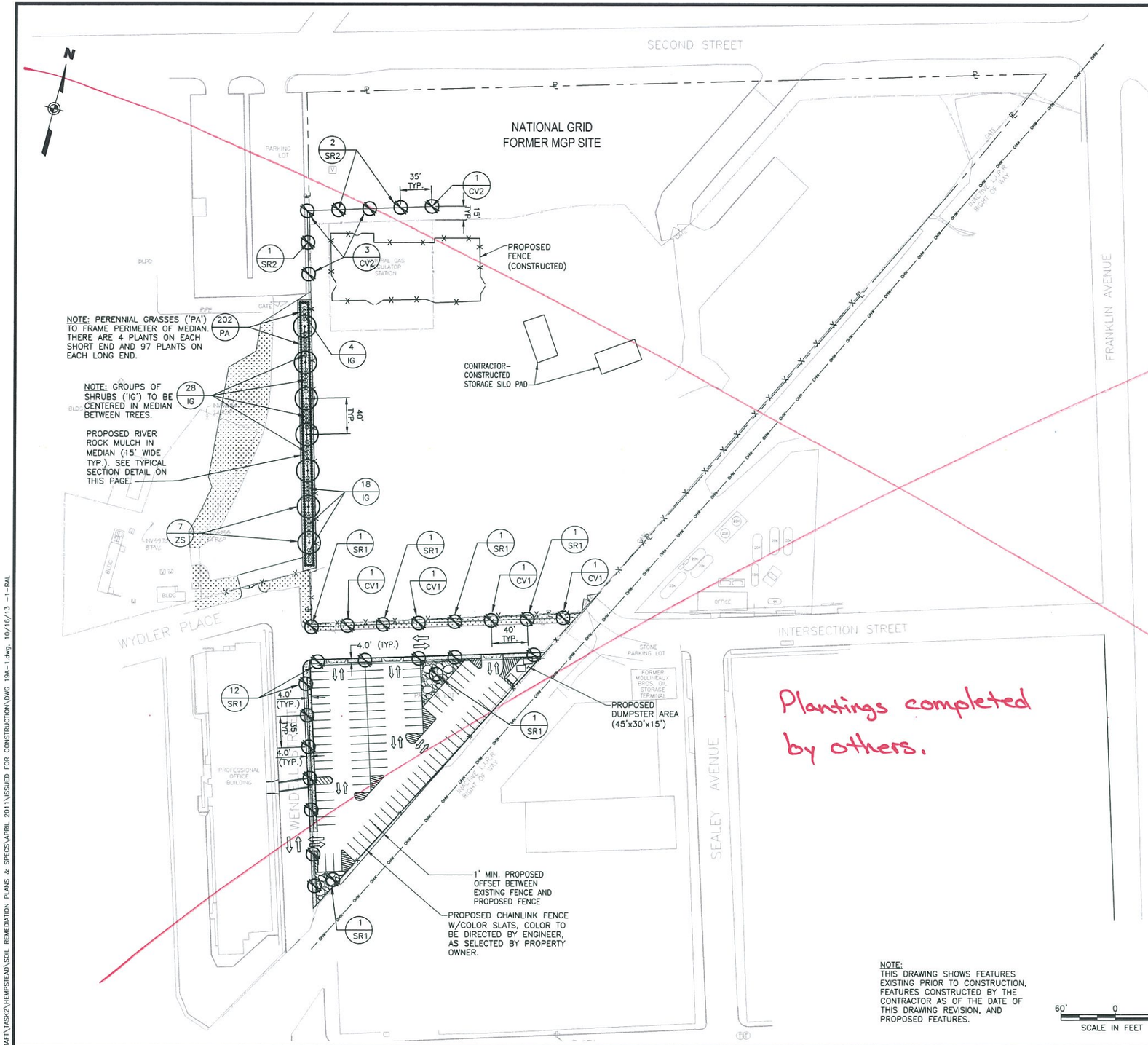
SITE RESTORATION
PHASE 2

Scale: AS SHOWN | Date: APRIL 2011 | DWG-19A

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 19A-REV.dwg, DWG 19A-REV, 1:1, 10/16/13 -1-RAL

Only copies from the original of this drawing that are signed, sealed and dated in black ink by the Professional Engineer or Land Surveyor named hereon should be used as valid documents.

This drawing was originally prepared by URS Corporation, New York and is subject to its common law copyright.



LEGEND:

- EXISTING FENCE
- PROPOSED FENCE
- PROPOSED LANDSCAPED AREA – LAWN MIXURE 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.

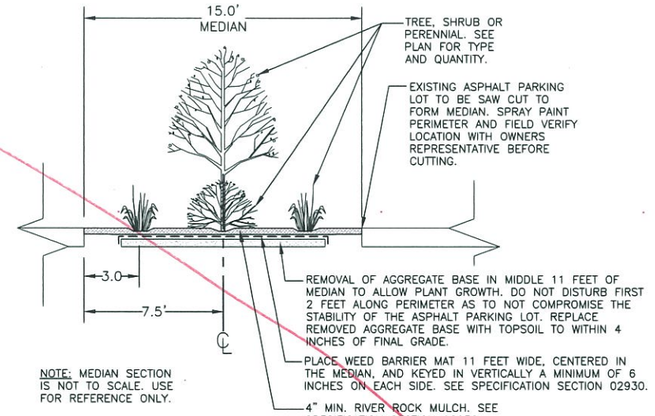
PLANTING SCHEDULE

TREES

SYM.	QTY.	BOTANICAL NAME	COMMON NAME	SIZE/HEIGHT	REMARKS
CV1	4	CRATAEGUS VIRDIS 'WINTER KING'	WINTER KING HAWTHORN	2 1/2" CAL	TREE FORM
CV2	4	CRATAEGUS VIRDIS '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.



NOTE: MEDIAN SECTION IS NOT TO SCALE. USE FOR REFERENCE ONLY.

TYPICAL MEDIAN SECTION

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.

60' 0 60'
SCALE IN FEET

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION

REVISIONS

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

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

JOB NO. 11176098

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

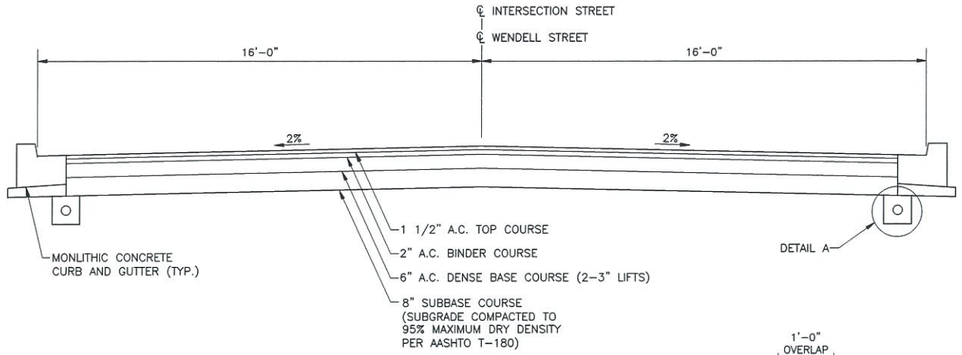
SITE RESTORATION
PHASE 2
PLANTINGS

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

Only copies from the original of this drawing that are signed and sealed and have an original signature of the Professional Engineer are to be used for reliance purposes.

This drawing was computer generated by AutoCAD and should not be changed manually.

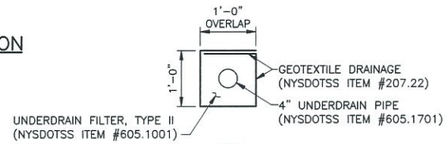
J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 19A-1.dwg, 10/16/13 -1-RAL



TYPICAL ROADWAY SECTION

0' 3' 6'

SCALE: 3/8"= 1'-0"

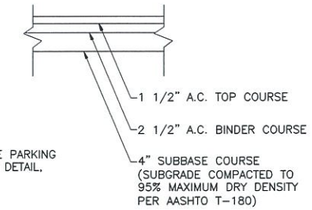


DETAIL A

(CONNECT TO STORM DRAIN SYSTEM)

0' 1' 2'

SCALE: 3/4"= 1'-0"



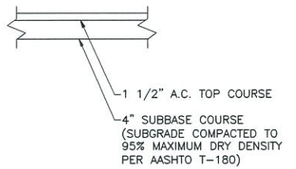
NOTE:

FOR ALTERNATE PARKING LOT PAVEMENT DETAIL, SEE DWG-25.

PARKING LOT PAVEMENT SECTION

0' 1' 2'

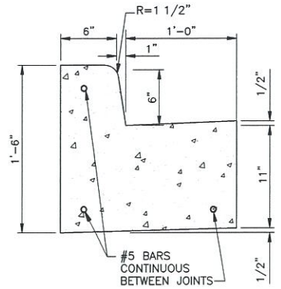
SCALE: 3/4"= 1'-0"



TEMPORARY PARKING LOT PAVEMENT SECTION

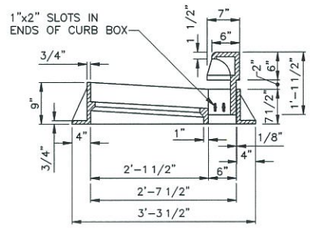
0' 1' 2'

SCALE: 3/4"= 1'-0"



MONOLITHIC CONCRETE CURB AND GUTTER

NOT TO SCALE

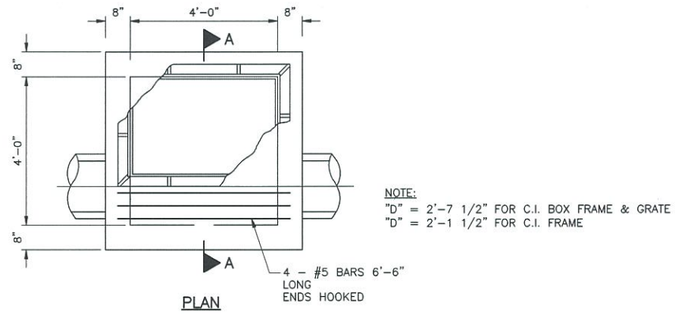


C.I. CURB BOX & FRAME TYPE A

NOT TO SCALE

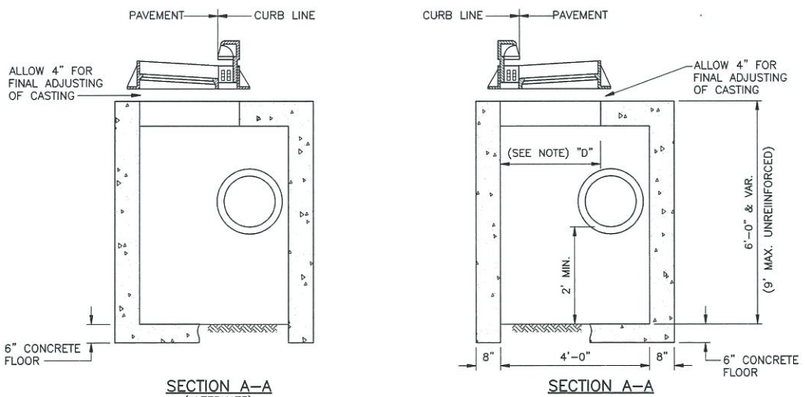
NOTES:

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.



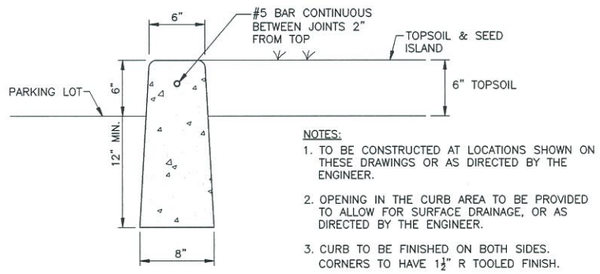
NOTE:
"D" = 2'-7 1/2" FOR C.I. BOX FRAME & GRATE
"D" = 2'-1 1/2" FOR C.I. FRAME

PLAN



CATCH BASIN TYPE A

NOT TO SCALE

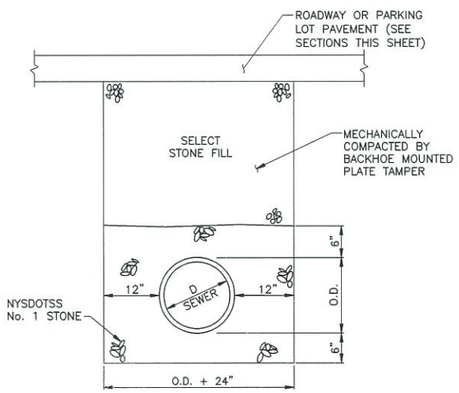


NOTES:

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 1½" R TOOLED FINISH.

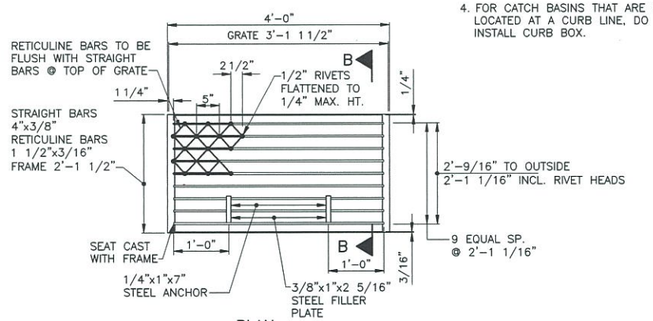
PARKING LOT CURB ISLAND

NOT TO SCALE



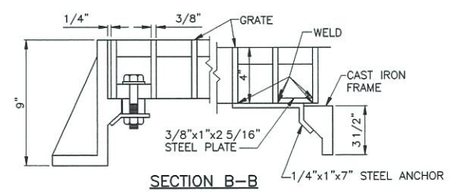
TYPICAL STORM SEWER TRENCH DETAIL

NOT TO SCALE



PLAN

NOT TO SCALE



SECTION B-B

FABRICATED STEEL GRATE TYPE A

NOT TO SCALE

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	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
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176098

STATE OF NEW YORK — JOSEPH WITTEK — No. 64238 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

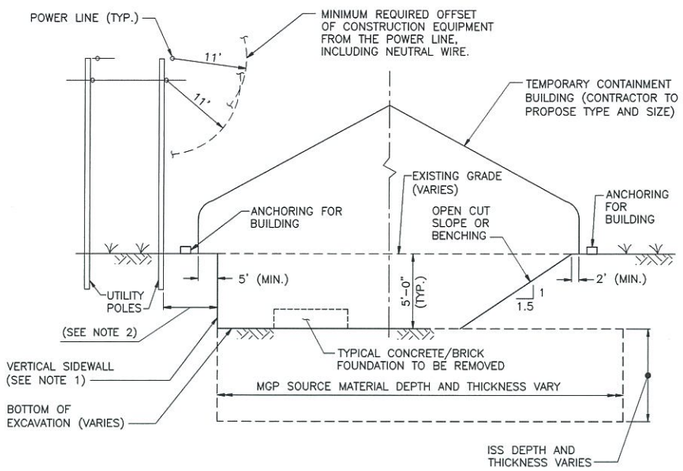
PAVING AND DRAINAGE DETAILS

Scale: AS SHOWN | Date: APRIL 2011 | DWG-20

Any copies from the original of this drawing shall be marked with the original seal and signature of the author.

This drawing was computer generated. Any changes and/or revisions should be noted.

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 20-22.dwg, dwg-20, 1:1, 9/9/11 -1-RAL

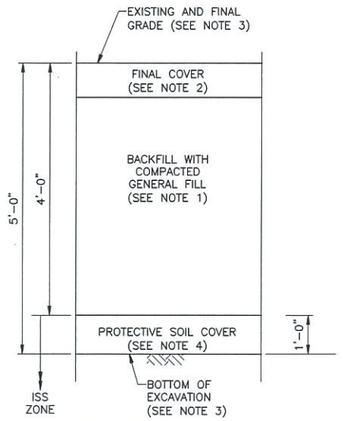


EXCAVATION AND CONTAINMENT DETAIL

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.

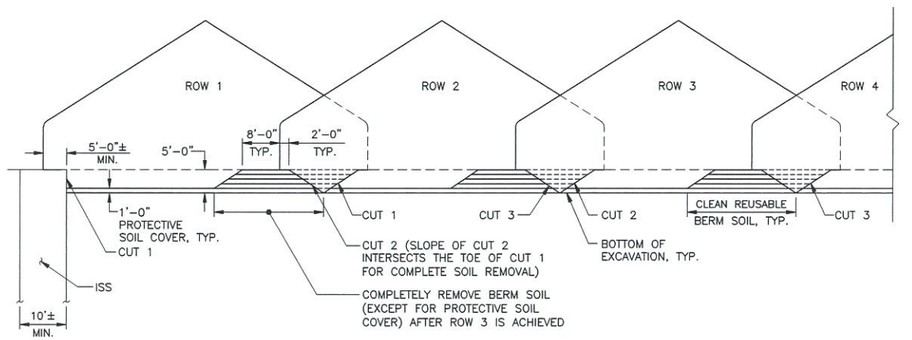


BACKFILL DETAIL

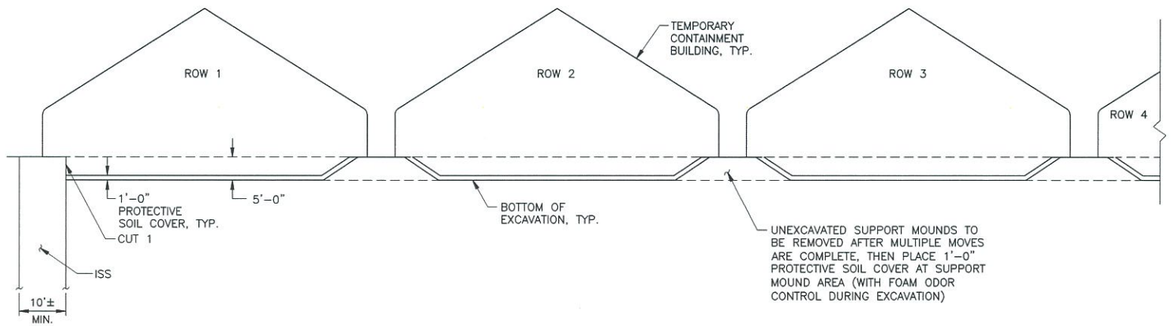
NOT TO SCALE

NOTES:

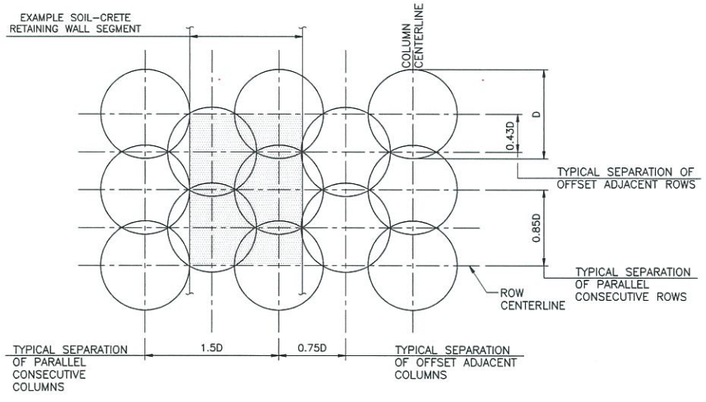
1. CLEAN ON–SITE EXCAVATED SOIL MAY BE USED AS BACKFILL BUT NO CLOSER THAN TWO (2) FEET FROM FINAL GRADE.
2. SELECTION OF FINAL COVER MATERIAL SHALL BE AS SHOWN ON DWG–19A AND AT THE DISCRETION OF NATIONAL GRID.
3. EXCAVATION SHALL EXTEND TO DEPTH GREATER THAN THAT SHOWN ONLY WHERE NECESSARY OR SHOWN, 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.



BASE BID– REUSABLE SUPPORT BERMS WITH CONTIGUOUS SOIL REMOVAL (A) DWG–21.1 | DWG–21.1

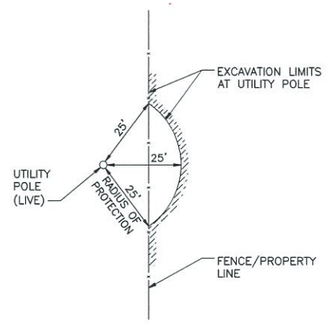


ALTERNATE BID– EXPEDITED CONTAINMENT BUILDING MOVES (A) DWG–21.1 | DWG–21.1



TYPICAL DSM SOLIDIFIED SOIL COLUMN TREATMENT PATTERN

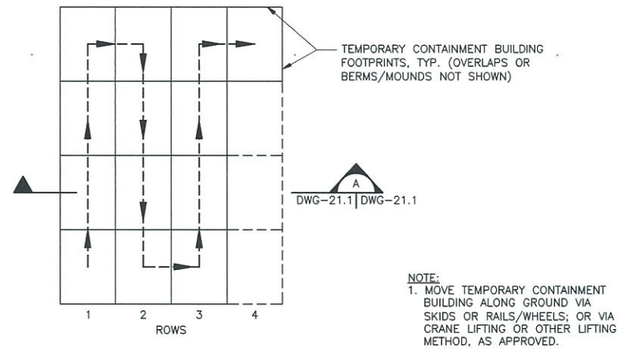
NOT TO SCALE



PLAN VIEW

EXCAVATION DETAIL AT UTILITY POLE

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.

PLAN VIEW

EXCAVATION SEQUENCE SCHEMES

NOT TO SCALE

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	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

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

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

JOB NO. 11176098

STATE OF NEW YORK — JACK R. WITTMER — LICENSED PROFESSIONAL ENGINEER — No. 068338

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

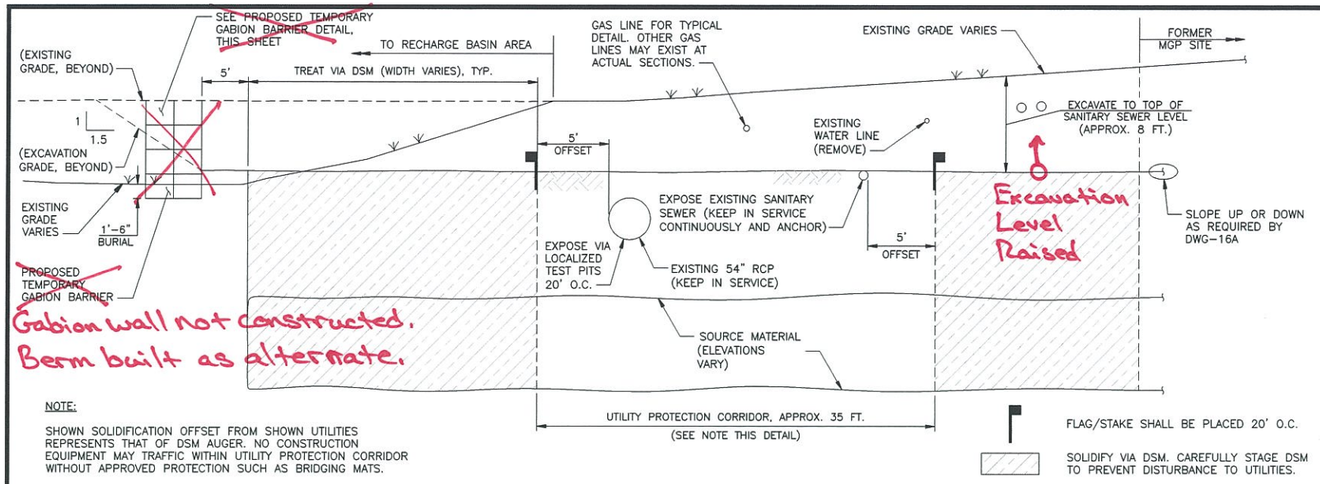
REMEDIATION DETAILS
(SHEET 1 OF 2)

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

This drawing was computer generated. Any changes and/or revisions should be noted.

Only copies from the original of this drawing that are signed with the original seal and signature are to be considered as the official document.

J:\11176065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 20–22.dwg, dwg–21.1, 1:1, 9/9/11 –2–RAL

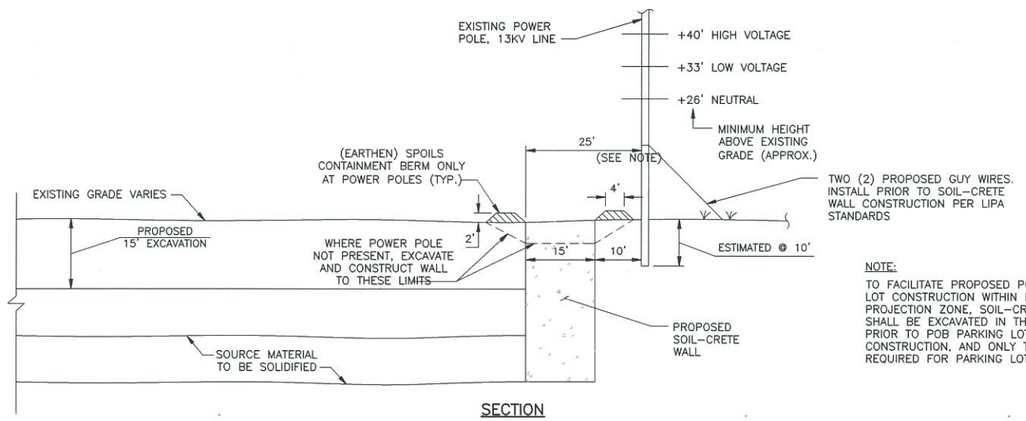


NOTE:

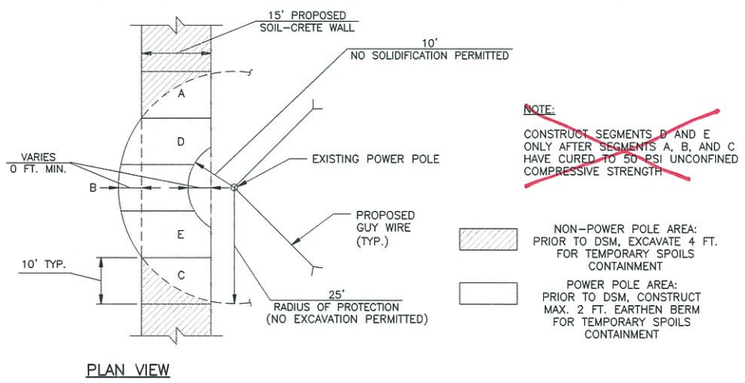
SHOWN SOLIDIFICATION OFFSET FROM SHOWN UTILITIES REPRESENTS THAT OF DSM AUGER. NO CONSTRUCTION EQUIPMENT MAY TRAFFIC WITHIN UTILITY PROTECTION CORRIDOR WITHOUT APPROVED PROTECTION SUCH AS BRIDGING MATS.

⚠2 TYPICAL SOLIDIFICATION AT GARDEN CITY PARK AREA DETAIL

NOT TO SCALE



SECTION



NOTE:

CONSTRUCT SEGMENTS D AND E ONLY AFTER SEGMENTS A, B, AND C HAVE CURED TO 50 PSI UNCONFINED COMPRESSIVE STRENGTH

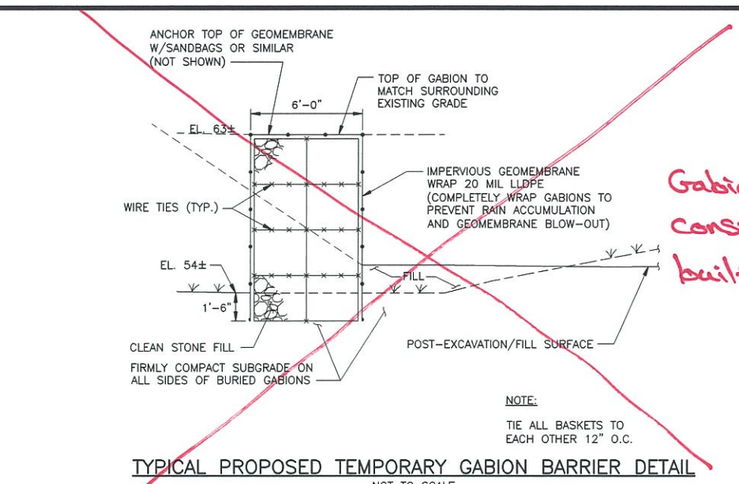
NON-POWER POLE AREA: PRIOR TO DSM, EXCAVATE 4 FT. FOR TEMPORARY SPOILS CONTAINMENT

POWER POLE AREA: PRIOR TO DSM, CONSTRUCT MAX. 2 FT. EARTHEN BERM FOR TEMPORARY SPOILS CONTAINMENT

PLAN VIEW

⚠2 TYPICAL SOLIDIFICATION AT POB PARKING LOT (WEST AND EAST SIDES) DETAIL

NOT TO SCALE

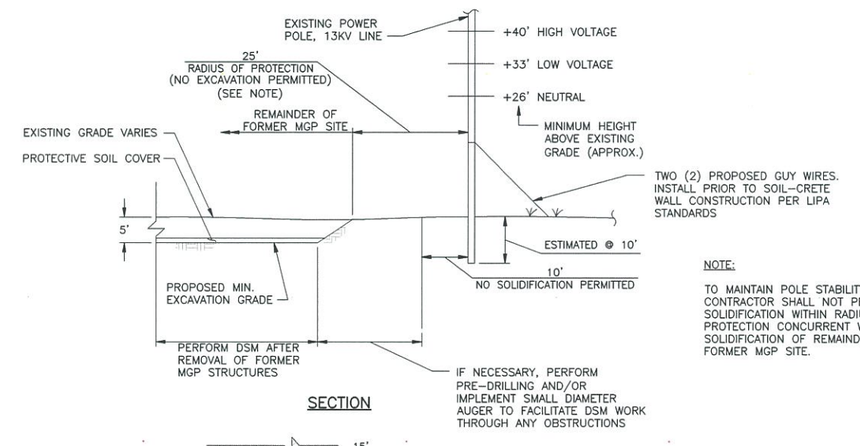


NOTE:

TIE ALL BASKETS TO EACH OTHER 12" O.C.

TYPICAL PROPOSED TEMPORARY GABION BARRIER DETAIL

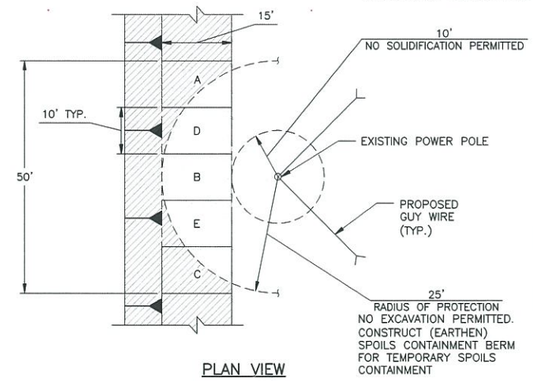
NOT TO SCALE



NOTE:

TO MAINTAIN POLE STABILITY, CONTRACTOR SHALL NOT PERFORM SOLIDIFICATION WITHIN RADIUS OF PROTECTION CONCURRENT WITH SOLIDIFICATION OF REMAINDER OF FORMER MGP SITE.

SECTION



NOTE:

CONSTRUCT SEGMENTS D AND E ONLY AFTER SEGMENTS A, B, AND C HAVE CURED TO 50 PSI UNCONFINED COMPRESSIVE STRENGTH

NON-POWER POLE AREA: PRIOR TO DSM, EXCAVATE 4 FT. FOR TEMPORARY SPOILS CONTAINMENT

POWER POLE AREA: PRIOR TO DSM, CONSTRUCT MAX. 2 FT. EARTHEN BERM FOR TEMPORARY SPOILS CONTAINMENT

PLAN VIEW

⚠2 TYPICAL SOLIDIFICATION AROUND LIPA POLES ALONG FORMER MGP SITE DETAIL

NOT TO SCALE

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	RJP	JAS	8/2011	DETAIL TITLES REVISED
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
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176098

STATE OF NEW YORK — JACK F. WISSLER — No. 69338 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

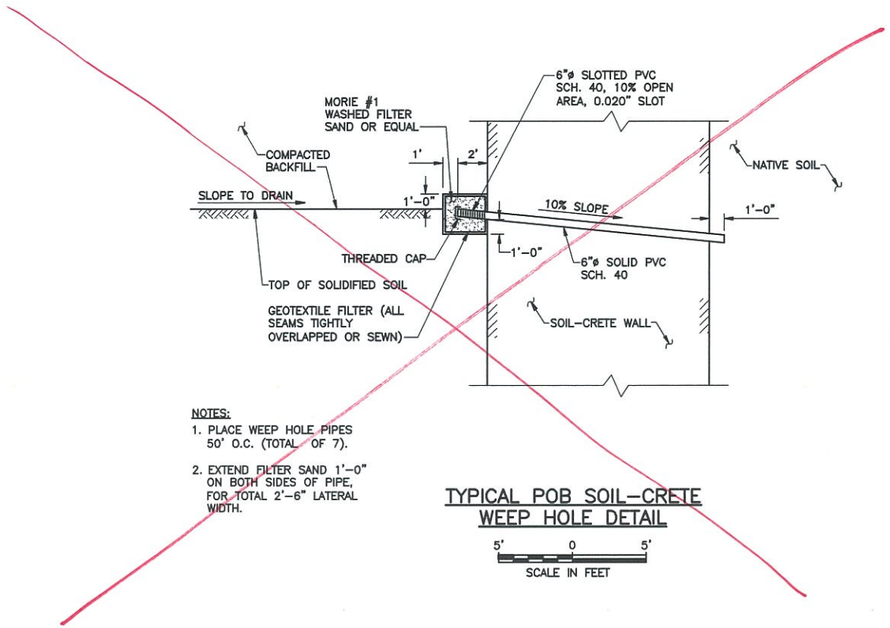
REMEDIATION DETAILS (SHEET 2 OF 2)

Scale: AS SHOWN | Date: APRIL 2011 | DWG-21.2

The drawing and material presented thereon is the property of URS Corporation and shall not be reproduced in any manner without our written permission.

I:\11176065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 20-22.dwg, dwg-21.2, 1:1, 9/9/11 -2-RAL

GEOTEXTILE FILTER PROPERTIES			
PROPERTY	ASTM METHOD	UNITS	REQUIRIED 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

5' 0 5'
SCALE IN FEET

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

Only copies from the original of this drawing that are signed, sealed and dated shall be considered to be valid copies.

The drawing and computer generated data shall not be used for any purpose other than that for which it was prepared.

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	11/2011	NEW DRAWING ISSUED FOR CONSTRUCTION – SOIL-CRETE WALL WEEP HOLES

REVISIONS

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

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

JOB NO. 11176098

STATE OF NEW YORK JACK R. INTRIERI LICENSED PROFESSIONAL ENGINEER No. 58309

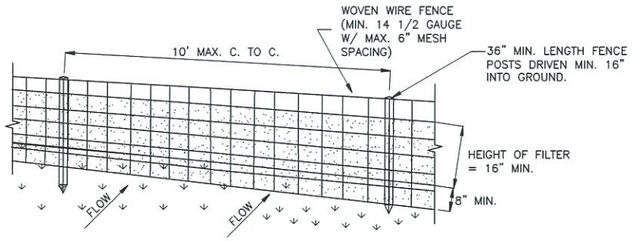
nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

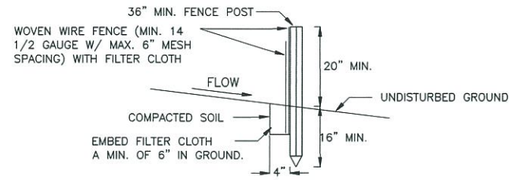
SOIL-CRETE WALL DETAIL ⚠

Scale: AS SHOWN | Date: NOV. 2011 | DWG-21.3

J:\11175065.0000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\REVISED NOVEMBER\DWG 21.3.dwg, dwg-21.3, 1:2, 11/10/11 -2-RAL



PERSPECTIVE VIEW

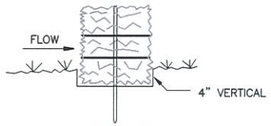


SECTION VIEW

CONSTRUCTION SPECIFICATIONS

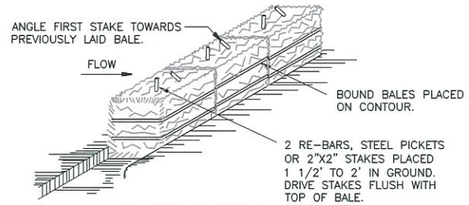
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 14 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE MIRAFI 100X, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. 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%.

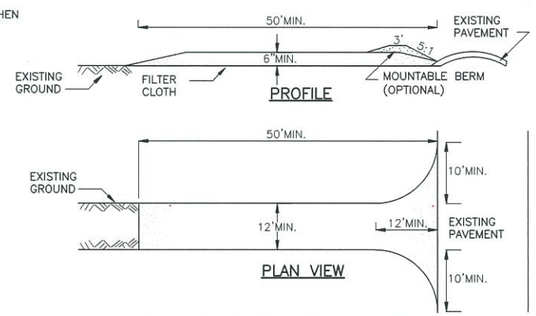


ANCHORING DETAIL
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. 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.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4", AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. 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.
4. INSPECTION SHALL BE FREQUENT AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULLNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

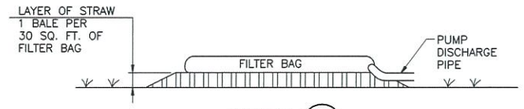
TYPICAL HAY BALE
NOT TO SCALE



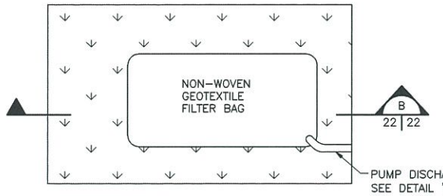
STABILIZED CONSTRUCTION ENTRANCE

CONSTRUCTION SPECIFICATIONS

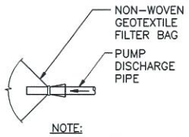
1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET.
3. THICKNESS – NOT LESS THAN 6".
4. WIDTH – 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH – SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. 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.
7. 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.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



SECTION



PLAN



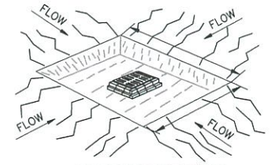
NOTE:
USE PROPERLY-SIZED HOSE CLAMP TO PROVIDE A SECURE CONNECTION BETWEEN THE PUMP DISCHARGE PIPE AND THE FILTER BAG.

DETAIL "A"

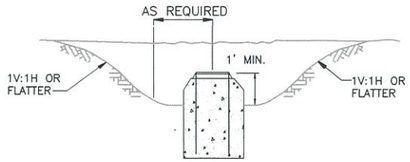
SPECIFICATIONS:

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

SEDIMENT FILTER BAG DETAIL
NOT TO SCALE



PERSPECTIVE VIEW



CROSS SECTION

CONSTRUCTION SPECIFICATIONS

1. 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.
2. THE VOLUME OF SEDIMENT STORAGE SHALL BE 1,800 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
3. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRS MADE AS NEEDED, AS DIRECTED BY THE CONSTRUCTION MANAGER.
4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER IMPACTS SHALL BE PREVENTED.
5. 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

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	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
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax
JOB NO. 11176098

STATE OF NEW YORK — MARK H. WISNIEWSKI — No. 66278 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

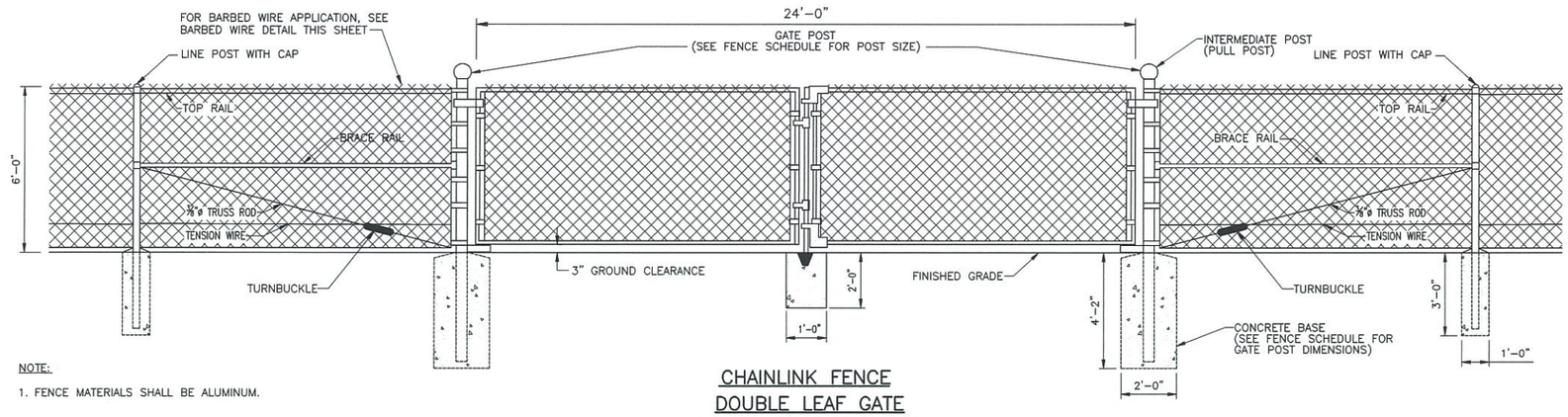
EROSION AND SEDIMENT CONTROL DETAILS

Scale: AS SHOWN | Date: APRIL 2011 | DWG-22

The drawing and particular presented are the property of URS Corporation and shall not be reproduced, changed and/or used in whole or part without written permission from URS Corporation.

Only copies from the original of this drawing that are marked with the original seal and signature of the engineer may be considered to be valid true copies.

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 20-22.dwg, dwg-22, 1:1, 8/9/11 -1-RAL



NOTE:

1. FENCE MATERIALS SHALL BE ALUMINUM.

CHAINLINK FENCE DOUBLE LEAF GATE (SHOWN WITH WELDED FRAME)

0' 3' 6'

SCALE: 3/8"= 1'-0"

FENCE NOTES:

1. FOR FENCE REQUIREMENTS, REFER TO SPECIFICATION SECTION 02821.
2. 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

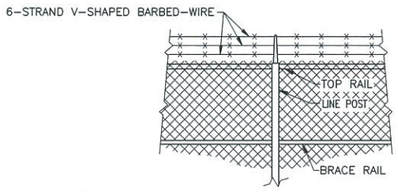
FENCE SCHEDULE

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



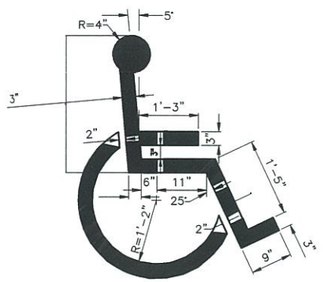
NOTE:

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

BARBED WIRE DETAIL

0' 3' 6'

SCALE: 3/8"= 1'-0"

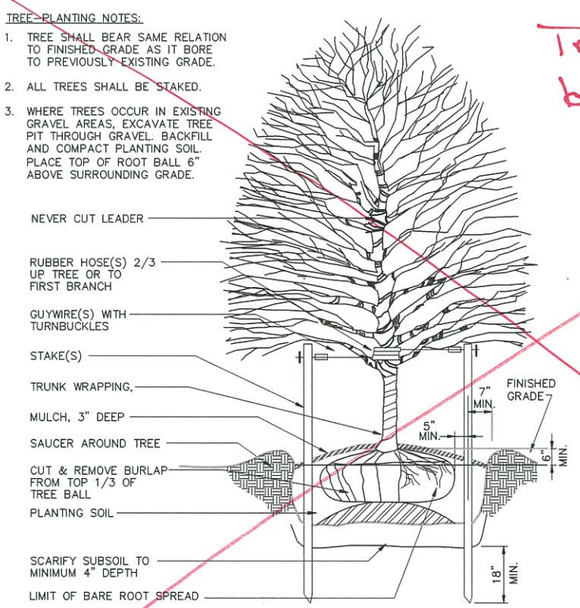


HANDICAPPED SYMBOL

NOT TO SCALE

TREE-PLANTING NOTES:

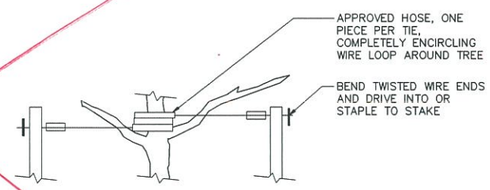
1. TREE SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUSLY EXISTING GRADE.
2. ALL TREES SHALL BE STAKED.
3. WHERE TREES OCCUR IN EXISTING GRAVEL AREAS, EXCAVATE TREE PIT THROUGH GRAVEL BACKFILL AND COMPACT PLANTING SOIL. PLACE TOP OF ROOT BALL 6" ABOVE SURROUNDING GRADE.



TREE PLANTING W/STAKES

NOT TO SCALE

Tree plantings by others



DETAIL OF STAKING TIE

NOT TO SCALE

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	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
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176098

STATE OF NEW YORK — RALPH L. WILKINS — No. 66236 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

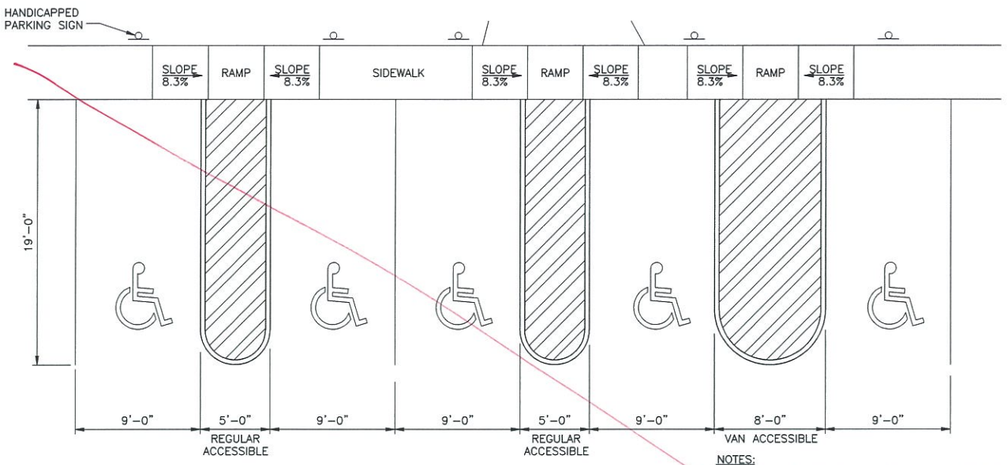
FENCE AND
LANDSCAPE DETAILS

Scale: AS SHOWN | Date: APRIL 2011 | DWG-23

This drawing was computer generated. Any changes and/or revisions should be made with the original.

Only copies from the original seal of this drawing shall be considered valid copies.

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 23-24.dwg, DWG 23, 1:1, 9/9/11 -1-RAL

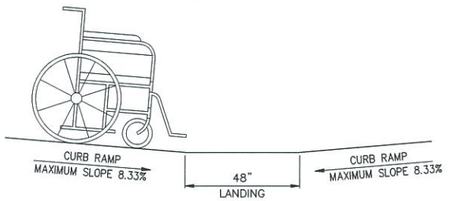


HANDICAP ACCESSIBLE PARKING DETAIL

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.

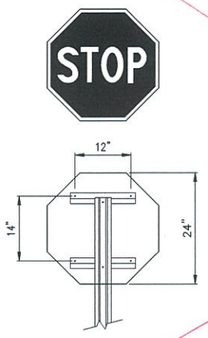


COUNTER SLOPE CONDITIONS DETAIL

NOT TO SCALE

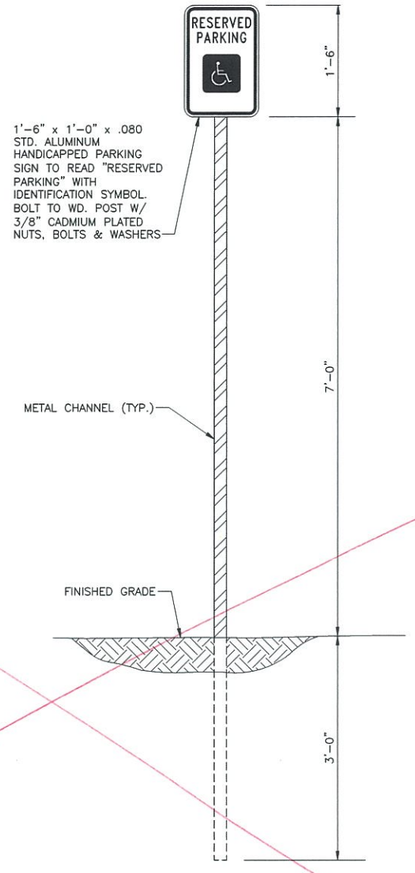
NOTE:

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



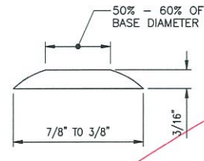
HANDICAPPED PARKING SIGN DETAIL

NOT TO SCALE

SIDEWALK RAMP NOTES:

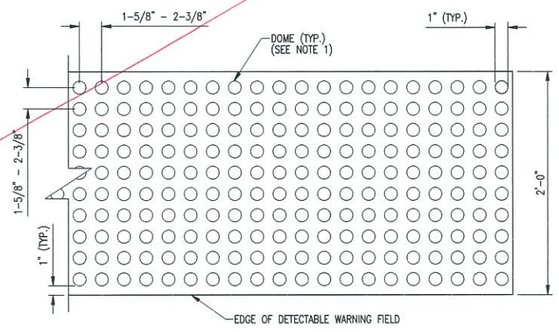
1. SIDEWALK CURB RAMP TYPE AND LOCATION ARE AS SHOWN ON THESE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
2. THE SIDEWALK RAMPS DEPICTED HERE MAY NOT BE APPROPRIATE FOR ALL LOCATIONS. FIELD CONDITIONS AT INDIVIDUAL LOCATIONS MAY REQUIRE SPECIFIC DESIGNS AS DIRECTED BY THE ENGINEER.
3. SIDEWALK CURB RAMP 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 RAMPS. RETICULINE OR RECTANGULAR DRAINAGE GRATES ARE TO BE USED IN AREA OF CURB RAMPS.
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 RAMPS. 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.

Not in Contract



DOME SECTION

NOT TO SCALE

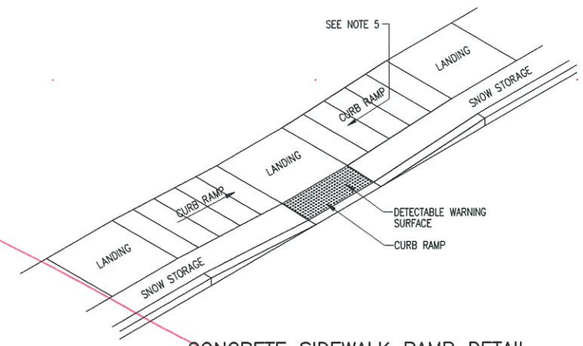


DETECTIBLE WARNING UNIT DETAIL

NOT TO SCALE

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 NYSDOT STANDARD SPECIFICATIONS.



CONCRETE SIDEWALK RAMP DETAIL

NOT TO SCALE

ISSUED FOR CONSTRUCTION

Any copies from the original of this drawing shall be marked with the original seal and signature of the

This drawing was computer generated. Any changes made on material should

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 23-24.dwg, DWG 24, 1:1, 9/9/11 -1-RAL

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	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
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176098

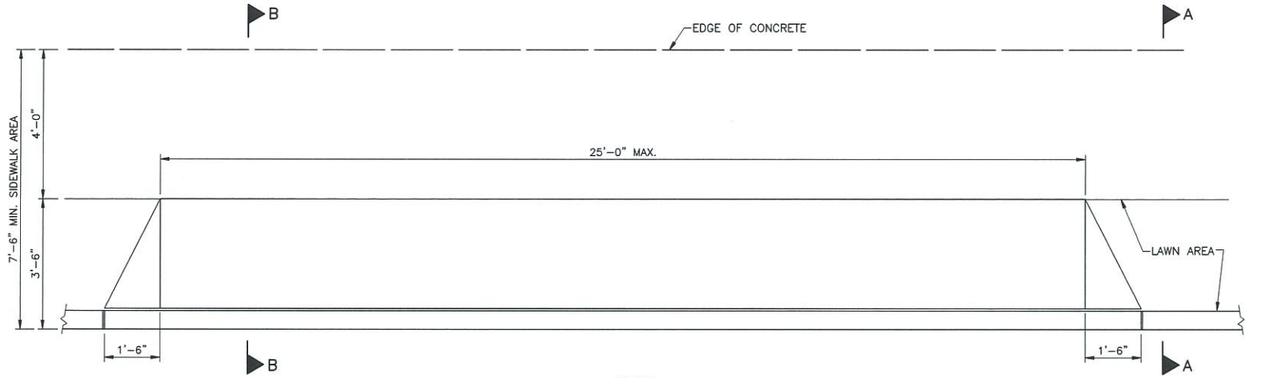
STATE OF NEW YORK — JACK E. WILSON — No. 66238 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

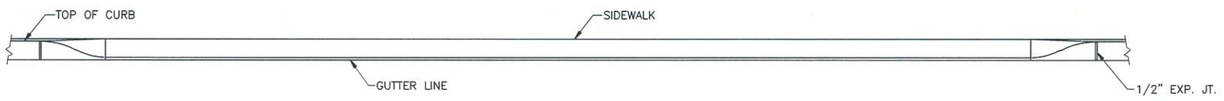
THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

HANDICAP RAMP AND SIGNAGE DETAILS

Scale: AS SHOWN | Date: APRIL 2011 | DWG-24



PLAN

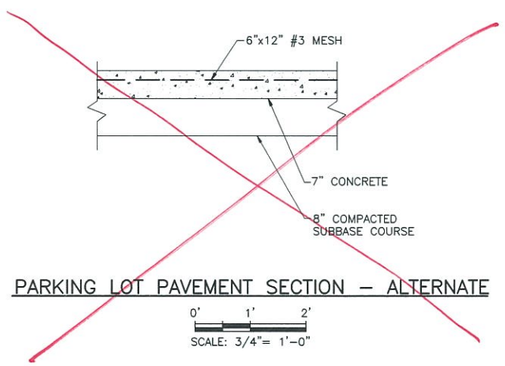


FRONT ELEVATION

PARKING LOT APPROACH DETAIL

0' 2' 4'

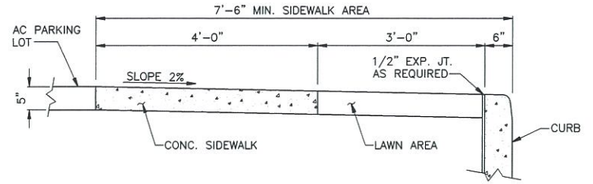
SCALE: 1/2"= 1'-0"



PARKING LOT PAVEMENT SECTION – ALTERNATE

0' 1' 2'

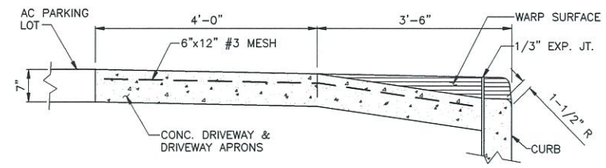
SCALE: 3/4"= 1'-0"



SECTION A–A

0' 1' 2'

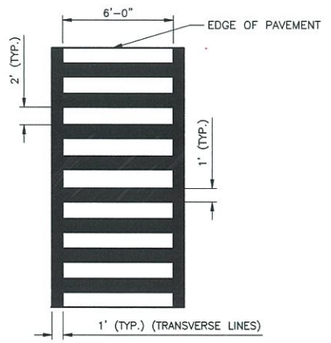
SCALE: 3/4"= 1'-0"



SECTION B–B

0' 1' 2'

SCALE: 3/4"= 1'-0"



COMBINED TYPE LS

NOTE: ALL CROSSWALK MARKINGS SHALL BE WHITE.

TYPICAL CROSSWALK DETAIL

NOT TO SCALE

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.

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.

REVISIONS

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

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

JOB NO. 11176098

STATE OF NEW YORK — JOSEPH H. WHITE — LICENSED PROFESSIONAL ENGINEER — No. 68238

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

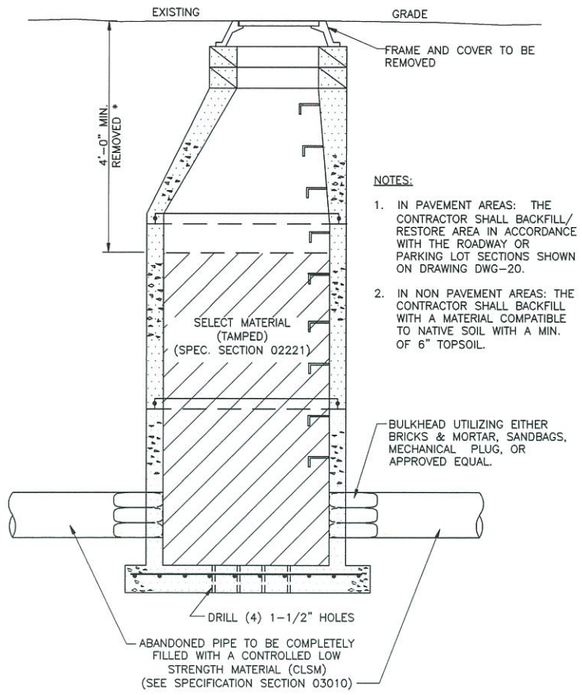
PARKING LOT AND
APPROACH DETAILS

Scale: AS SHOWN | Date: APRIL 2011 | DWG–25

This drawing was computer generated. Any changes and/or revisions should be made with the computer program.

This drawing is the property of the author and shall not be used in whole or part without written permission.

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 25.dwg, DWG 25, 1:1, 9/9/11 -1-RAL

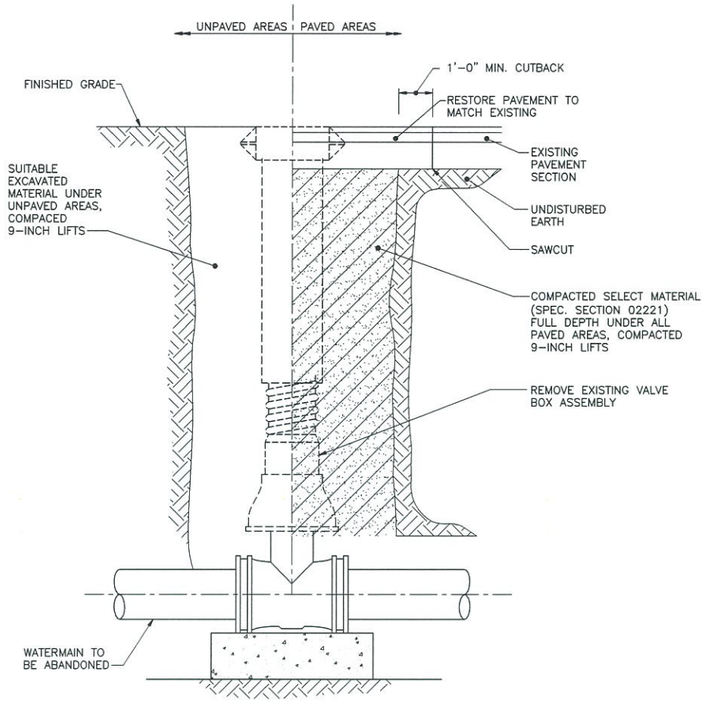


NOTES:

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.

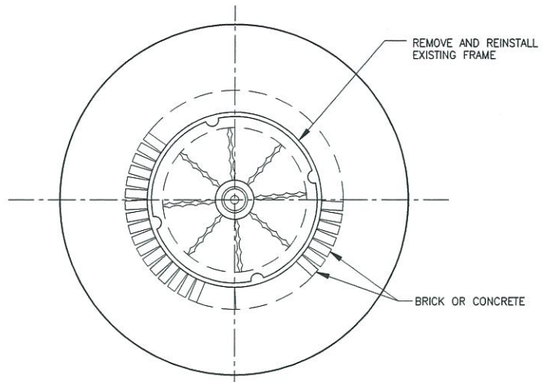
SANITARY SEWER PIPE & MANHOLE ABANDONMENT

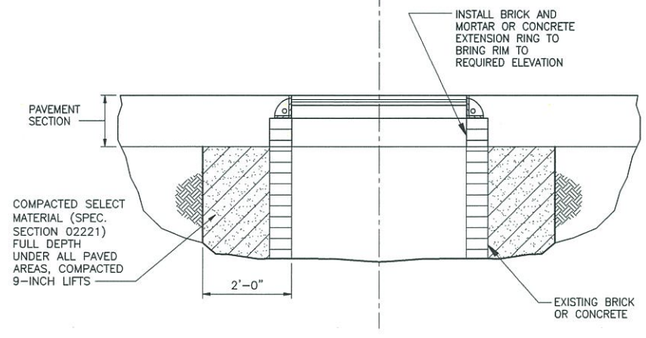
NOT TO SCALE



EXISTING VALVE BOX ABANDONMENT

NOT TO SCALE



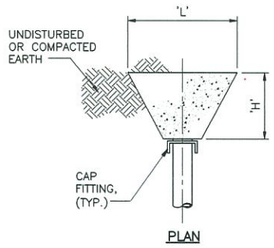


MANHOLE ADJUSTMENT DETAIL

NOT TO SCALE

NOTE:

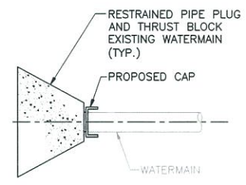
MASONRY MORTAR SHALL BE IN ACCORDANCE WITH NYSDOT REQUIREMENTS FOR 705-21.



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



CAP AND ABANDONMENT DETAIL

NOT TO SCALE

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	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
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176098

STATE OF NEW YORK — JACK R. WISSING — No. 64378 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

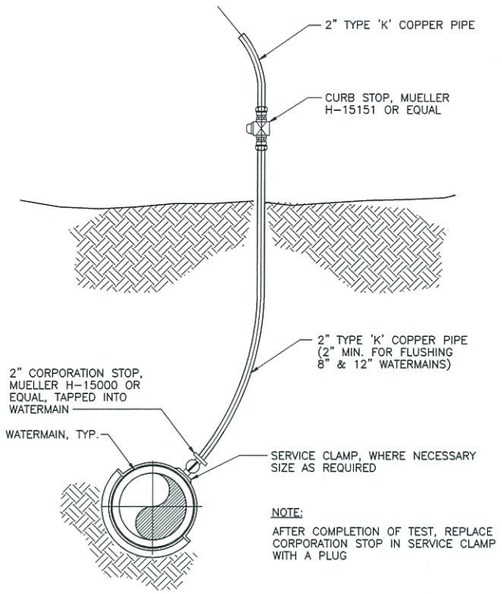
UTILITY ADJUSTMENT AND ABANDONMENT DETAILS

Scale: AS SHOWN | Date: APRIL 2011 | DWG-26

The drawings and specifications and designs incorporated on this drawing are the property of the Engineer and shall not be used in whole or part for any other project without written authorization from the Engineer.

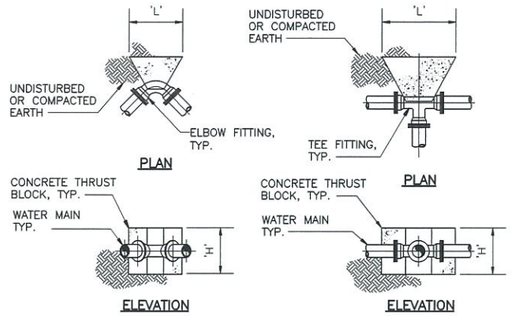
The drawings and specifications and designs incorporated on this drawing are the property of the Engineer and shall not be used in whole or part for any other project without written authorization from the Engineer.

A:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 26.dwg, DWG 26, 1:1, 9/9/11, -1-RAL



TEMPORARY BLOWOFF/SAMPLING POINT DETAIL

NOT TO SCALE



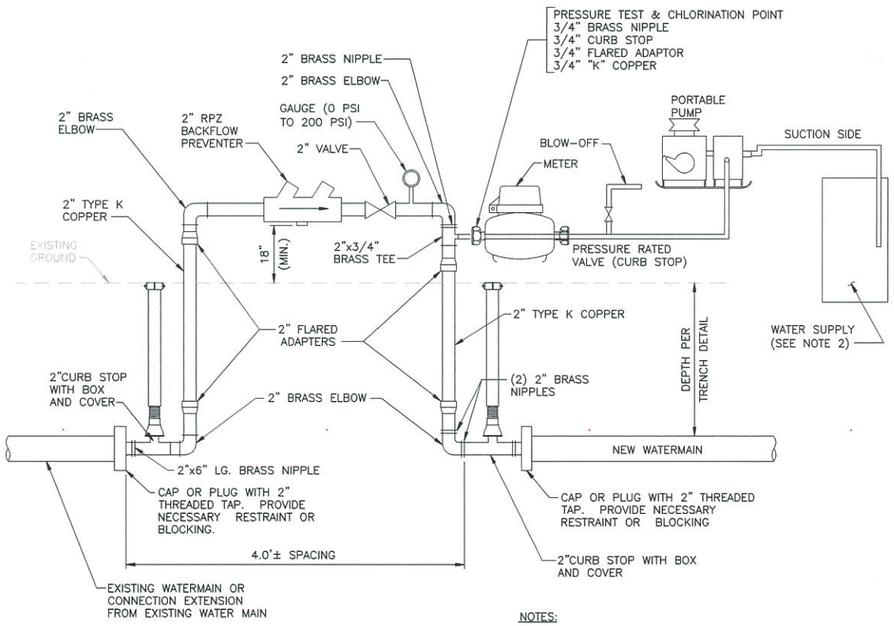
DIMENSION SCHEDULE (IN FEET)				
PIPE SIZE	45° ELBOW		11.25° ELBOW	
	'H'	'L'	'H'	'L'
6"	1.50'	2.00'	1.00'	1.50'

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

THESE DETAILS APPLY TO RECONSTRUCTED UTILITIES ON INTERSECTION STREET

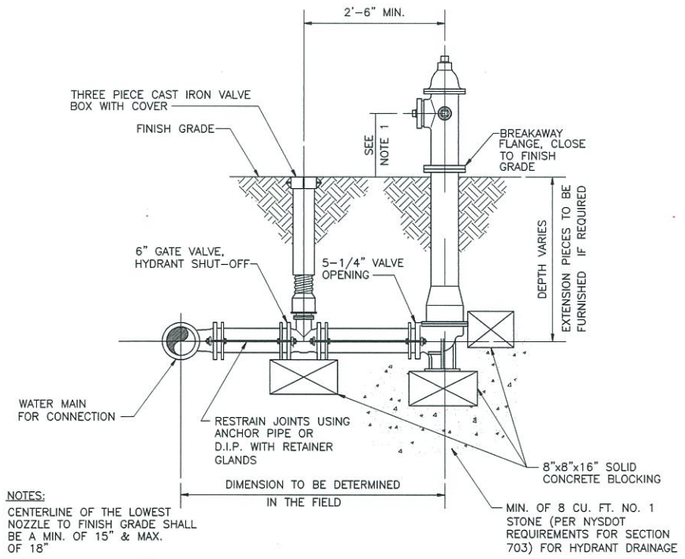


NOTES:

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

TESTING AND DISINFECTING EQUIPMENT DETAIL

NOT TO SCALE

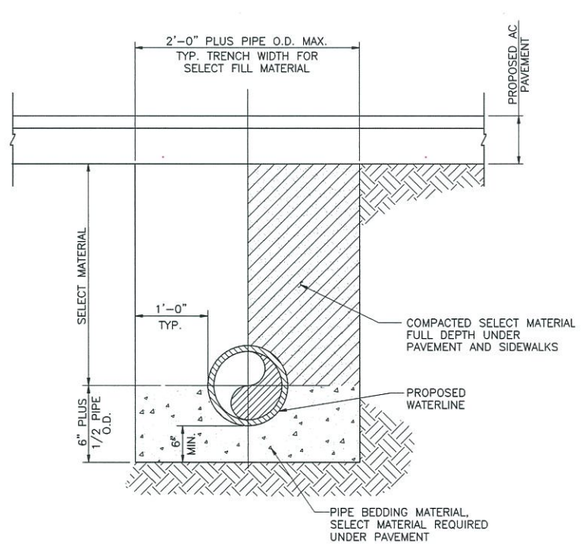


NOTES:

1. CENTERLINE OF THE LOWEST NOZZLE TO FINISH GRADE SHALL BE A MIN. OF 15" & MAX. OF 18"
2. 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

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	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
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176098

STATE OF NEW YORK — JACK E. WILSON — No. 64338 — LICENSED PROFESSIONAL ENGINEER

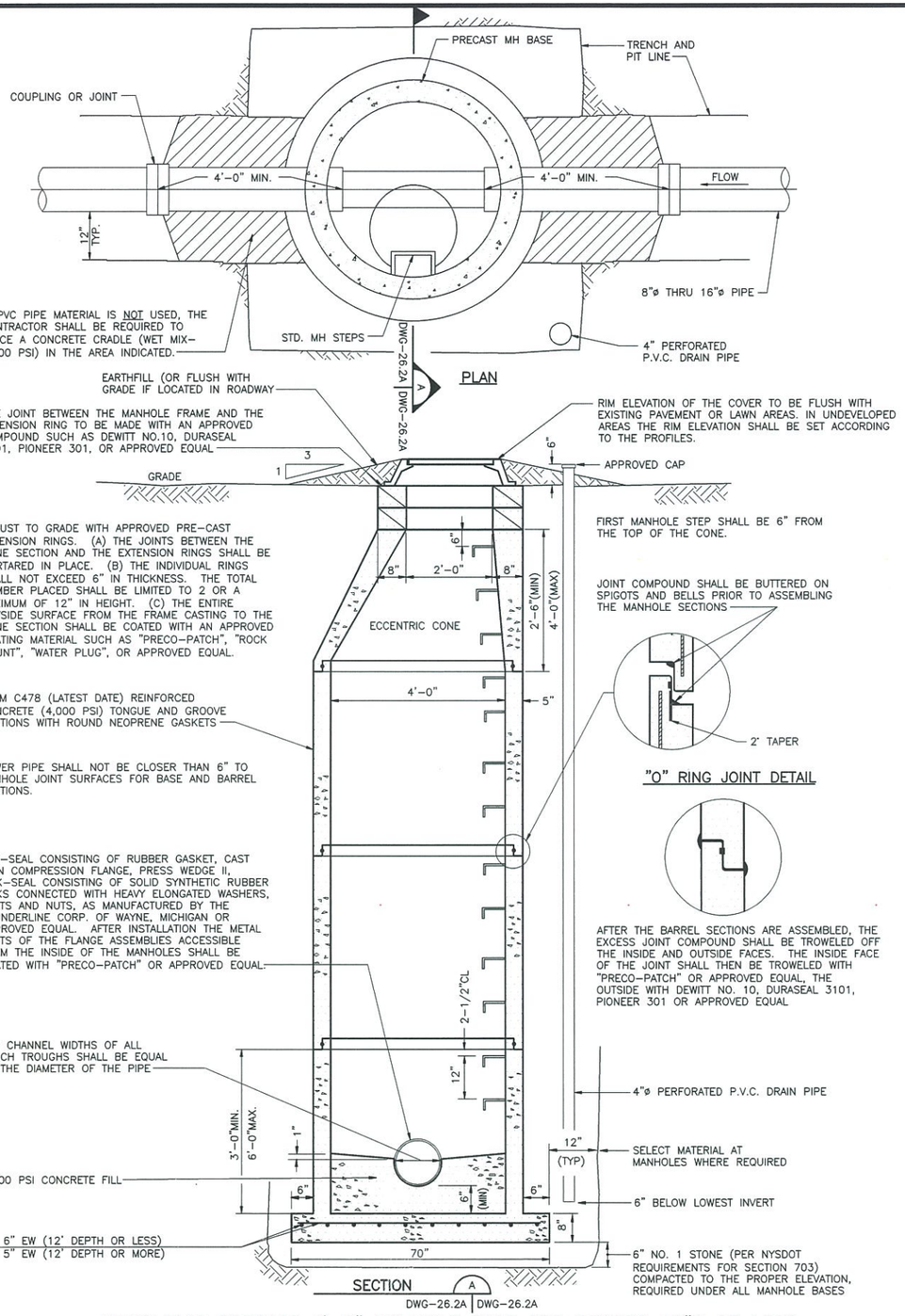
nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

UTILITY ADJUSTMENT AND ABANDONMENT DETAILS

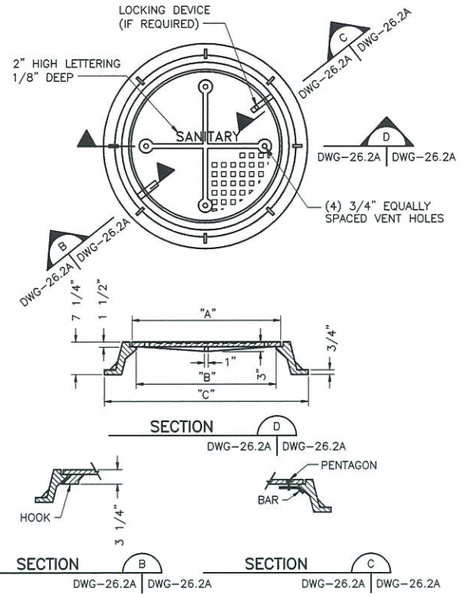
Scale: AS SHOWN | Date: APRIL 2011 | DWG-26.1A

Only copies from the original of this drawing that are marked with the original seal and signature shall be considered valid.
This drawing was computer generated and any changes and/or revisions should be made only by means of computer.
J:\11175065.0000\CAD\DRAFT\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



MONOLITHIC PRECAST 4'-0" MANHOLE BASE FOR SEWERS 16"ø OR LESS

NOT TO SCALE



LOCKING DEVICE

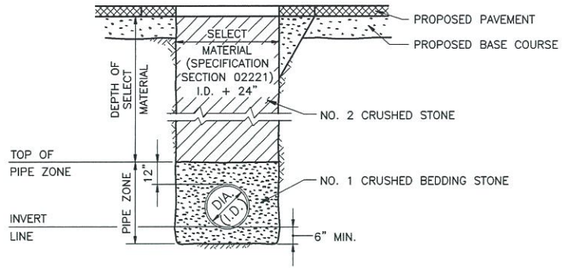
TABLE			
PIPE SIZE	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"
8" THRU 18"	24"	22"	35"(MAX.)

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.

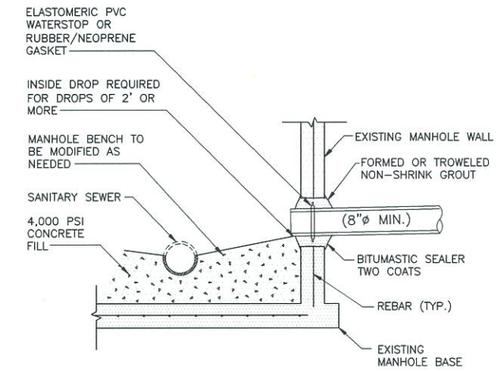
STANDARD FRAME AND COVER (PIPE SIZES 8" AND UP)

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

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN 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.	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
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

JOB NO. 11176098

STATE OF NEW YORK — JACK R. WILSON — No. 66238 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD INTERSECTION STREET FORMER MANUFACTURED GAS PLANT SITE

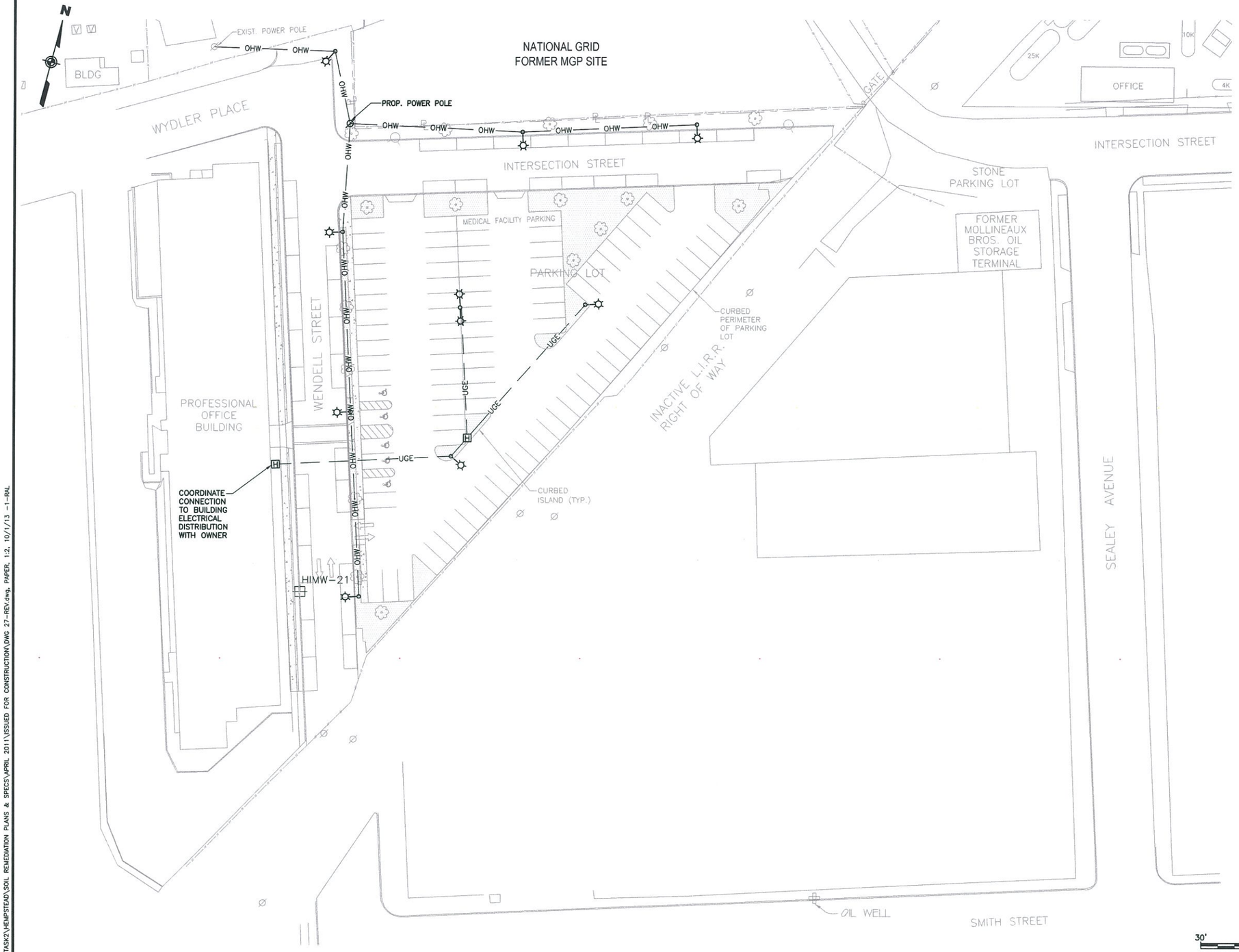
UTILITY ADJUSTMENT AND ABANDONMENT DETAILS

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

This drawing was originally produced in color. Any changes made to it may result in misinterpretation of its contents.

Only copies from the original of this drawing that are marked with the original signature of the engineer and seal shall be considered to be valid true copies.

I:\11176065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 26.2A.dwg, DWG 26.2A, 1:1, 9/9/11 -1-RAL



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) (GRAINGER 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 ENTACT. 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

30' 0 30'
SCALE IN FEET

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	DMB	JAS	9/2013	REVISED SITE LIGHTING LAYOUT
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

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

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

JOB NO. 11176098

JOHN A. WILSON — No. 86238 — STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

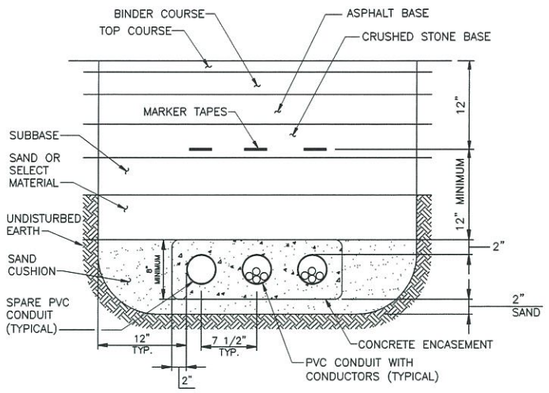
SITE LIGHTING PLAN

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

This drawing was prepared exclusively for the purpose stated by the Author and URS Corporation, Inc. is not responsible for any use of this drawing for any other purpose.

Only copies from the original of this drawing that are marked with the original seal and signature of the Professional Engineer shall be considered to be valid copies.

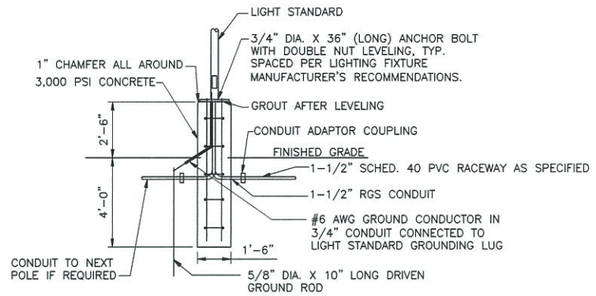
J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 27-REV.dwg, PAPER, 1:2, 10/11/13 -1-RAL



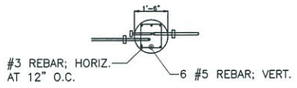
NOTE:
NUMBER AND SIZE OF CONDUITS AS NOTED ON DWG-27.

TYPICAL CONDUIT TRENCH DETAIL IN PAVEMENT AREA

NOT TO SCALE



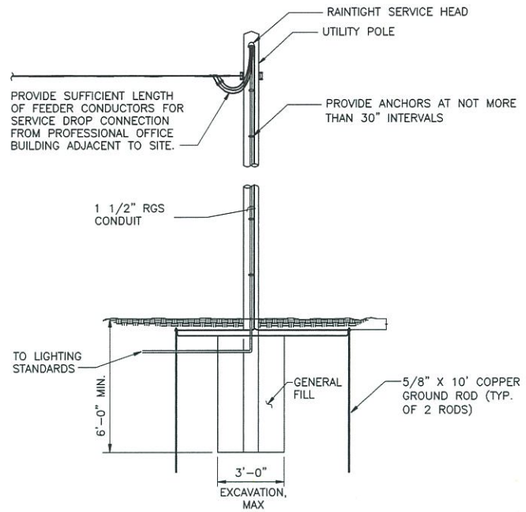
ELEVATION



PLAN

LIGHT POLE BASE DETAIL

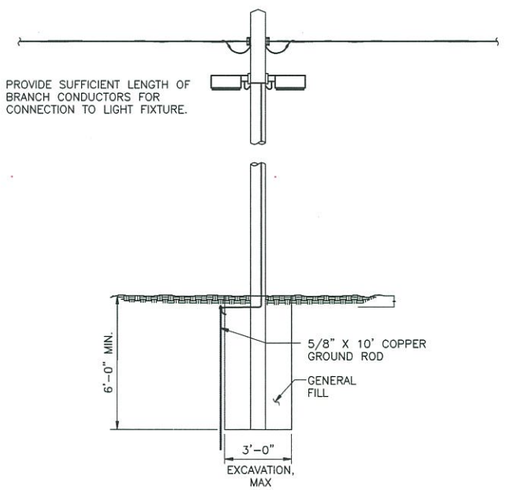
NOT TO SCALE



SERVICE RISER DETAIL

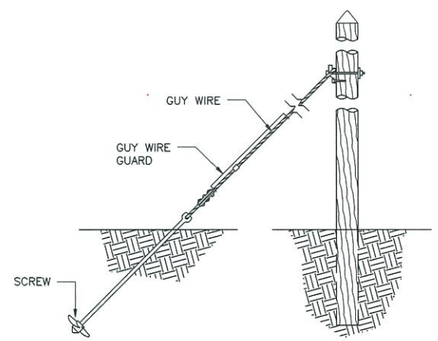
NOT TO SCALE

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.

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

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

URS Corporation
New York
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax
JOB NO. 11176098

STATE OF NEW YORK — JACK A. WISSER — No. 66378 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS PLANT SITE

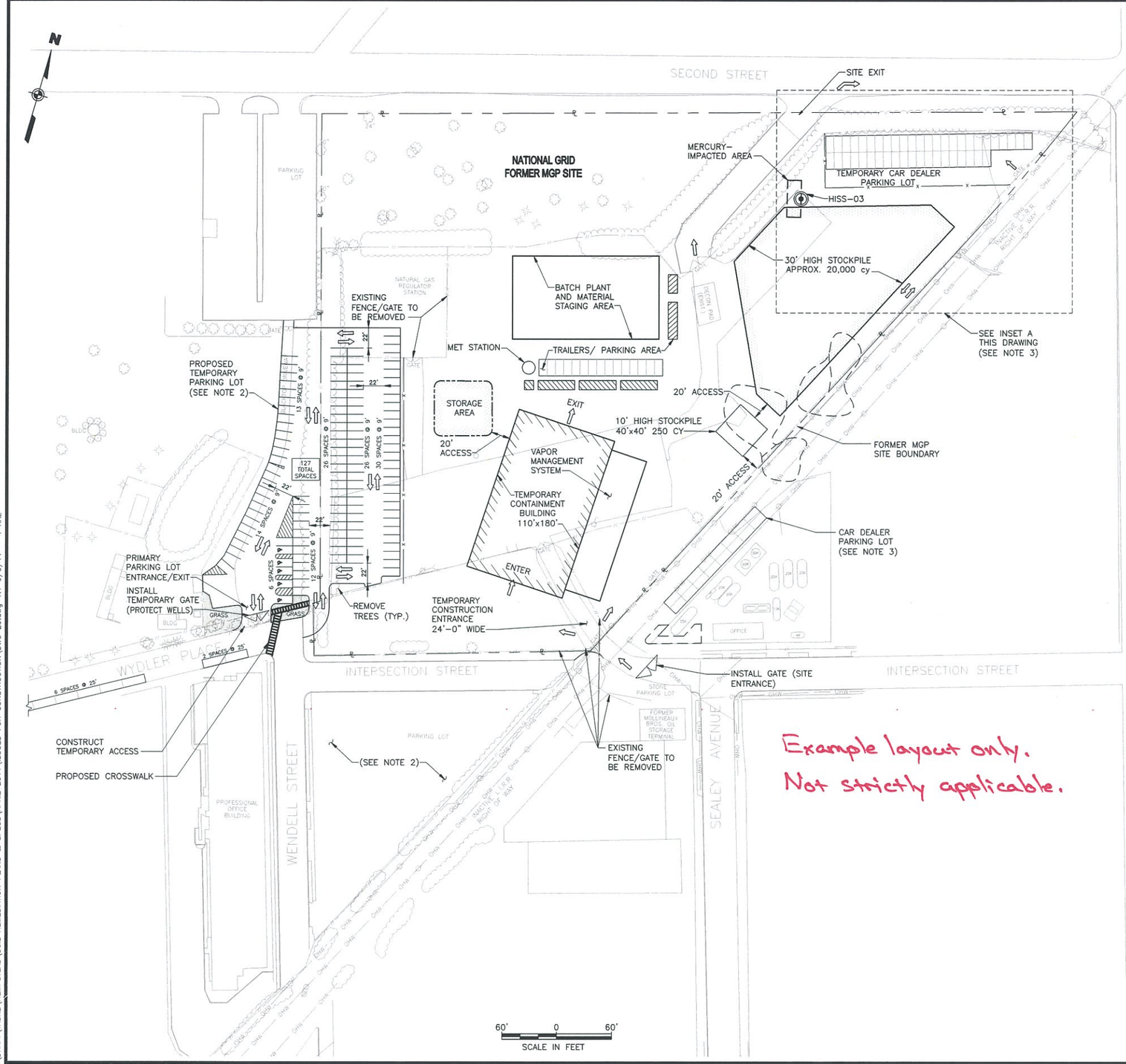
ELECTRICAL DETAILS

Scale: AS SHOWN | Date: APRIL 2011 | DWG-28

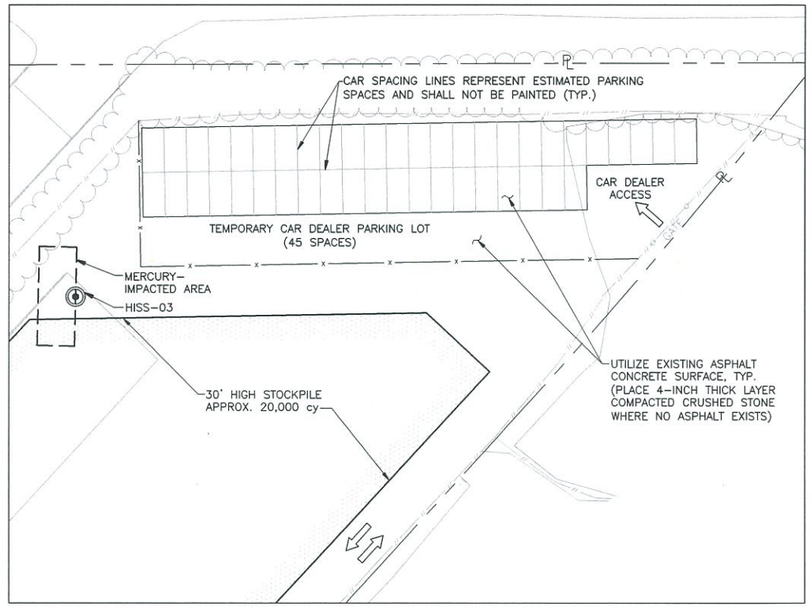
This drawing was produced by the Design Software shown

Only copies from the original of this drawing that are marked with the original signature of a Registered Professional Engineer and the seal of the engineer shall be considered to be valid true copies.

A:\11176065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 28.dwg, PAPER, 1:1, 9/9/11 -2-RAL



Example layout only.
Not strictly applicable.



INSET A
TEMPORARY CAR DEALER
PARKING LOT

30' 0 30'
SCALE IN FEET

LEGEND:

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

NOTES:

2. 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.

ISSUED FOR CONSTRUCTION

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
2	RJP	JAS	8/2011	NOTE REVISED
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

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

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

JOB NO. 11176098

STATE OF NEW YORK — ANDREW E. WILDERS — No. 68228 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

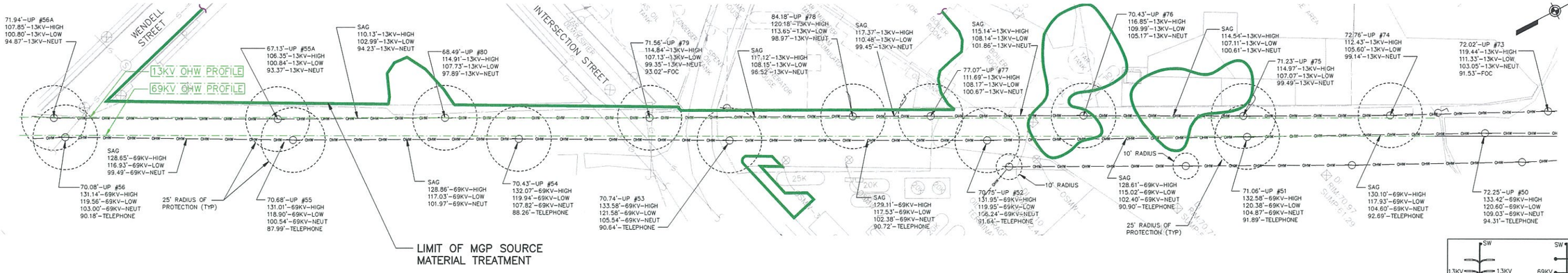
THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

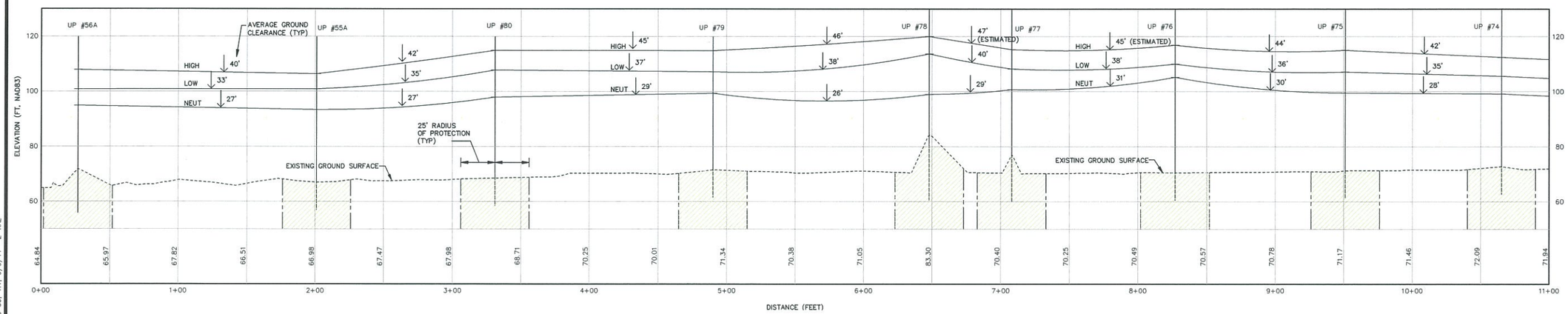
EXAMPLE TEMPORARY
FACILITIES LAYOUT

Scale: AS SHOWN | Date: APRIL 2011 | DWG-29

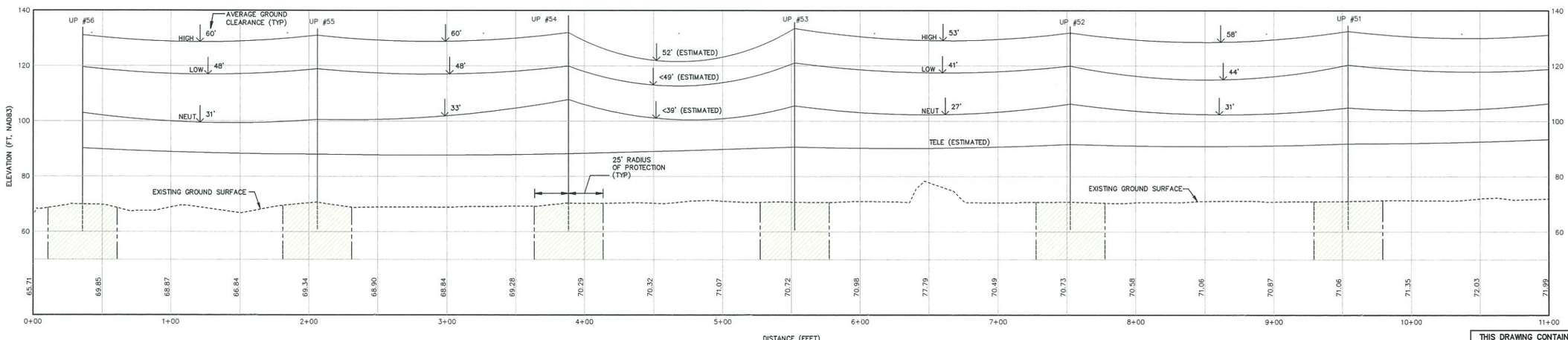
Only copies from the original of this drawing that are marked with the original seal and signature are authorized.
This drawing was computer generated. Any changes and/or revisions should be noted.

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 29.dwg 1:1 9/9/11 - 4 RAL

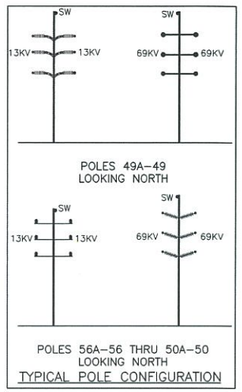




13 KV LINE



69 KV LINE



LEGEND

70.74'-UP	GROUND SURFACE ELEVATION AT UTILITY POLE
129.53'-69KV-HIGH	SURVEYED ELEVATION OF OVERHEAD WIRE, VOLTAGE OF WIRE, TYPE OF WIRE
	REQUIRED MINIMUM EXCAVATION OFFSET AROUND POLE BASE (RADIUS OF PROTECTION)

NOTES:

1. 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.
2. SOURCE OF POLE NOS. FROM DWG. NO. HLF69-FT-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.

20' 0 20'
VERT. SCALE IN FEET
40' 0 40'
HORIZ. SCALE IN FEET

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

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF A/I ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

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

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

JOB NO. 11176098

STATE OF NEW YORK — JACK E. WILSON — LICENSED PROFESSIONAL ENGINEER — No. 66238

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 produced digitally. Any changes shall be made digitally.

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 30.dwg, DWG 30, 1:1, 9/9/11 -2-RAL

NATIONAL GRID
FORMER MGP SITE

INC. VILLAGE OF GARDEN CITY
INC. VILLAGE OF HEMPSTEAD

RECHARGE BASIN

PARKING LOT

PROFESSIONAL OFFICE BUILDING

50' 0 50'
SCALE IN FEET

NOTE:

1. FOR NOTES, SEE DRAWING DWG–8A.
2. 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

WARNING
IT IS A VIOLATION OF SECTION 7209, 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 AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO 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.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RJP	JAS	8/2011	ISSUED FOR CONSTRUCTION

REVISIONS

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

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

JOB NO. 11176098

STATE OF NEW YORK — ARCH. H. WILSON — No. 66356 — LICENSED PROFESSIONAL ENGINEER

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS
PLANT SITE

SOLIDIFICATION TOP/BOTTOM
LAYOUT PLAN

Scale: AS SHOWN | Date: APRIL 2011 | DWG–31A

Only copies from the original of this drawing that are marked with the original seal and signature of the Engineer may be considered to be valid prints.

This drawing was computer generated. Any changes and/or revisions should be made only to the computer file.

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SOIL REMEDIATION PLANS & SPECS\APRIL 2011\ISSUED FOR CONSTRUCTION\DWG 31A.dwg, DWG 31A, 1:1, 9/9/11 -1-ELB

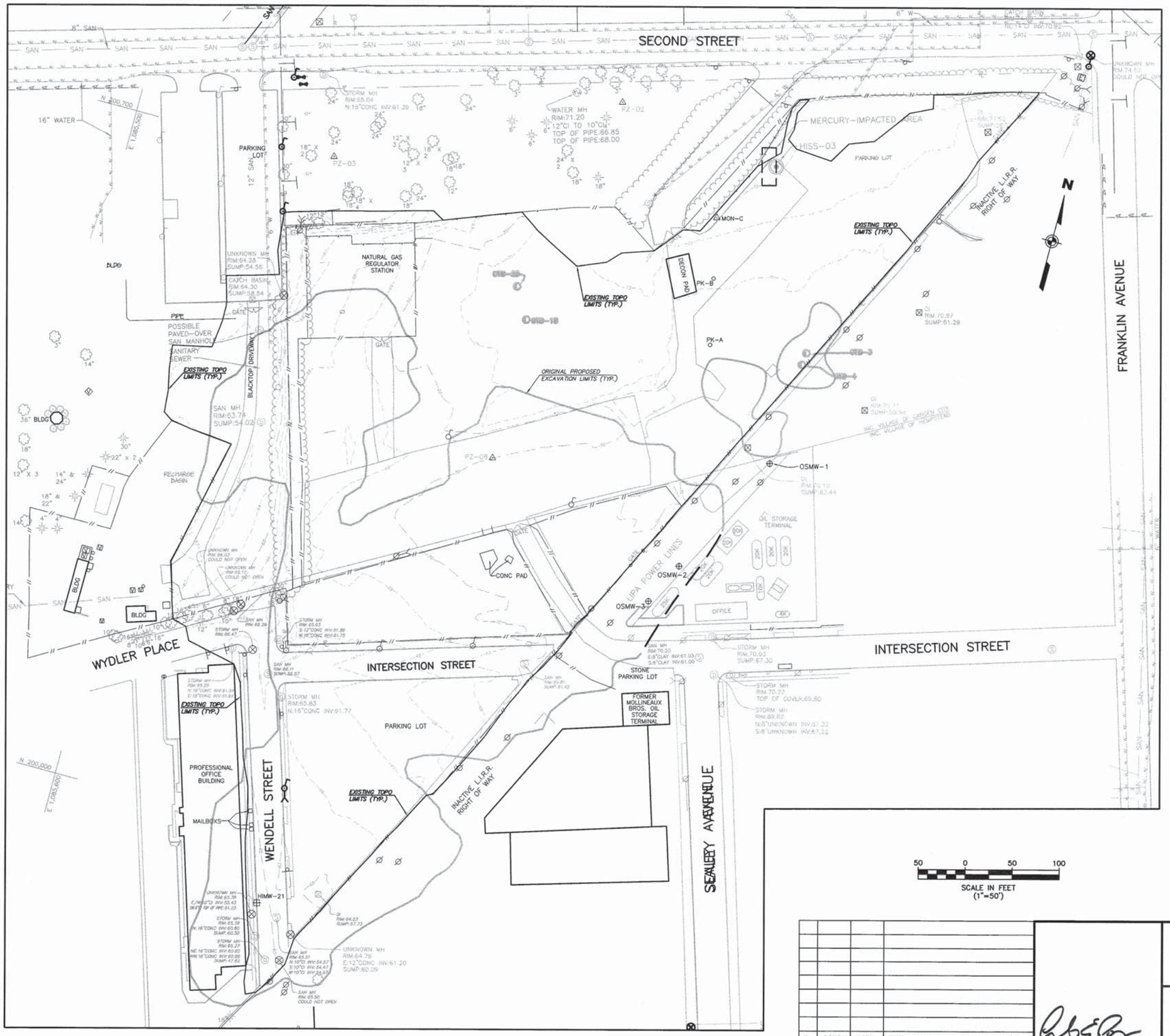
NODE TABLE

NODE	NORTHING	EASTING	EXISTING GRADE	BOTTOM OF EXCAVATION	TOP OF SOLIDIFICATION	BOTTOM OF SOLIDIFICATION
A1	200474.4	1085965.8	70.0	64.4	65.4	29.0
A2	200503.1	1086023.9	70.0	63.0	64.0	29.0
A3	200395.9	1086023.8	70.0	64.2	65.2	29.0
A4	200387.4	1086008.6	70.0	64.7	65.7	29.0
C1	200395.6	1085973.8	70.0	64.9	65.9	20.0
C2	200408.2	1085997.6	70.0	64.6	65.6	20.0
C3	200387.4	1086008.6	70.0	64.7	65.7	20.0
C4	200374.2	1085984.9	70.0	64.9	65.9	20.0
E1	200502.5	1085753.8	67.4	53.4	53.4	2.0
E2	200502.5	1085794.8	68.5	54.5	54.5	2.0
E3	200428.0	1085794.8	68.4	54.4	54.4	2.0
E4	200428.0	1085753.8	67.3	53.3	53.3	2.0
J1	200517.2	1086023.8	70.8	62.9	63.9	31.0
J2	200516.4	1086077.3	70.0	63.2	64.2	31.0
J3	200512.9	1086085.2	70.0	63.4	64.4	31.0
J4	200500.0	1086097.4	70.0	63.8	64.8	31.0
J5	200499.7	1086109.3	70.0	64.0	65.0	31.0
J6	200505.4	1086132.2	70.0	63.4	65.4	31.0
J7	200504.7	1086139.4	70.1	64.6	65.6	31.0
J8	200500.2	1086147.2	70.2	64.8	65.8	31.0
J9	200479.4	1086152.7	70.0	66.4	67.4	31.0
J10	200466.4	1086145.7	70.0	66.2	67.2	31.0
J11	200466.6	1086104.6	70.0	64.3	65.3	31.0
J12	200447.0	1086098.3	70.0	64.3	65.3	31.0
J13	200447.1	1086074.0	70.0	63.9	64.9	31.0
J14	200279.6	1086073.7	70.1	65.6	66.6	31.0
J15	200264.0	1086023.8	69.3	64.9	65.9	31.0
K1	200466.6	1086104.6	70.0	64.3	65.3	18.0
K2	200466.4	1086145.7	70.0	66.2	67.2	18.0
K3	200446.9	1086135.0	70.0	65.1	66.1	18.0
K4	200447.0	1086096.3	70.0	64.3	65.3	18.0
N1	200279.7	1085999.8	69.5	64.5	65.5	34.0
N2	200279.6	1086023.8	69.7	65.0	66.0	34.0
N3	200264.0	1086023.8	69.3	64.9	65.9	34.0
N4	200256.4	1085999.8	69.1	64.4	65.4	34.0
P1	200338.0	1085973.8	70.0	64.3	65.3	36.0
P2	200337.6	1086023.8	70.0	65.1	66.1	36.0
P3	200279.6	1086023.8	69.7	65.0	66.0	36.0
P4	200279.7	1085999.8	69.5	64.5	65.5	36.0
P5	200256.4	1085999.8	69.1	64.4	65.4	36.0
P6	200232.8	1085923.8	68.3	63.5	64.5	36.0
P7	200280.7	1085923.7	69.3	63.4	64.4	36.0
P8	200279.7	1085973.5	69.4	64.0	65.0	36.0
Q1	200279.8	1085773.7	67.6	61.0	62.0	34.0
Q2	200280.2	1085923.7	69.3	63.4	64.4	34.0
Q3	200232.6	1085923.8	68.3	63.5	64.5	34.0
Q4	200196.7	1085809.3	66.2	61.1	62.1	34.0
Q5	200222.5	1085801.3	66.5	61.2	62.2	34.0
Q6	200216.2	1085777.7	66.0	61.0	62.0	34.0
Q7	200237.5	1085773.9	66.5	61.0	62.0	34.0
X1	200279.6	1086073.7	70.1	70.1	70.1	29.0
X2	200284.9	1086090.6	70.7	70.7	70.7	29.0
X3	200257.4	1086073.6	70.0	70.0	70.0	29.0
Y1	200332.5	1086153.9	70.4	66.4	66.4	20.0
Y2	200335.9	1086164.3	70.3	66.3	66.3	20.0
Y3	200321.1	1086156.7	70.4	66.4	66.4	20.0
Y4	200329.0	1086183.8	70.2	66.2	66.2	20.0
Y5	200344.8	1086191.3	70.1	66.1	66.1	20.0
Y6	200346.8	1086198.2	70.0	66.0	66.0	20.0
Y7	200326.7	1086204.1	70.1	66.1	66.1	20.0
Y8	200309.9	1086148.9	70.6	66.6	66.6	20.0
Y9	200311.2	1086145.3	70.6	66.6	66.6	20.0
Y10	200315.0	1086145.0	70.6	66.6	66.6	20.0
Z1	200541.0	1086209.7	70.7	68.7	68.7	42.0
Z2	200557.8	1086222.6	70.7	68.7	68.7	42.0
Z3	200565.4	1086229.6	70.8	68.8	68.8	42.0
Z4	200568.6	1086234.6	70.8	68.8	68.8	42.0
Z5	200570.9	1086242.3	70.9	68.9	68.9	42.0
Z6	200570.8	1086249.5	71.0	69.0	69.0	42.0
Z7	200567.4	1086253.0	71.0	69.0	69.0	42.0
Z8	200552.4	1086250.6	71.0	69.0	69.0	42.0
Z9	200536.7	1086253.8	71.0	69.0	69.0	42.0
Z10	200529.8	1086253.2	71.0	69.0	69.0	42.0
Z11	200526.0	1086251.4	71.0	69.0	69.0	42.0
Z12	200522.9	1086246.6	71.0	69.0	69.0	42.0
Z13	200520.4	1086224.2	70.9	68.9	68.9	42.0
Z14	200523.0	1086218.3	70.8	68.8	68.8	42.0
Z15	200529.0	1086214.2	70.8	68.8	68.8	42.0
AA1	200663.4	1086249.7	71.0	69.0	69.0	48.0
AA2	200681.7	1086247.7	71.0	69.0	69.0	48.0
AA3	200691.7	1086250.9	71.0	69.0	69.0	48.0
AA4	200694.2	1086255.8	71.0	69.0	69.0	48.0
AA5	200693.9	1086263.1	71.0	69.0	69.0	48.0
AA6	200686.6	1086277.4	71.0	69.0	69.0	48.0
AA7	200680.7	1086281.7	71.0	69.0	69.0	48.0
AA8	200672.2	1086282.7	71.0	69.0	69.0	48.0
AA9	200663.2	1086280.6	71.0	69.0	69.0	48.0
AA10	200646.6	1086274.6	71.0	69.0	69.0	48.0
AA11	200640.2	1086274.7	71.0	69.0	69.0	48.0
AA12	200624.0	1086289.0	71.0	69.0	69.0	48.0
AA13	200618.4	1086291.0	71.0	69.0	69.0	48.0
AA14	200612.9	1086288.6	71.0	69.0	69.0	48.0
AA15	200601.6	1086260.7	71.0	69.0	69.0	48.0
AA16	200601.1	1086245.7	70.8	68.8	68.8	48.0
AA17	200625.9	1086258.9	71.0	69.0	69.0	48.0
AA18	200635.9	1086260.9	71.0	69.0	69.0	48.0
AA19	200641.6	1086258.4	71.0	69.0	69.0	48.0
AA20	200649.7	1086256.2	71.0	69.0	69.0	48.0

NODE	NORTHING	EASTING	EXISTING GRADE	BOTTOM OF EXCAVATION	TOP OF SOLIDIFICATION	BOTTOM OF SOLIDIFICATION
AB1	200517.2	1086023.8	70.8	62.9	63.9	35.0
AB2	200503.1	1086023.9	70.0	63.0	64.0	35.0
AB3	200474.4	1085965.8	70.0	64.4	65.4	35.0
AB4	200408.2	1085997.6	70.0	64.6	65.6	35.0
AB5	200395.6	1085973.8	70.0	64.9	65.9	35.0
AB6	200374.2	1085984.9	70.0	64.9	65.9	35.0
AB7	200395.9	1086023.8	70.0	64.2	65.2	35.0
AB8	200337.6	1086023.8	70.0	65.1	66.1	35.0
AB9	200338.0	1085973.8	70.0	64.3	65.3	35.0
AB10	200279.7	1085973.5	69.4	64.0	65.0	35.0
AB11	200279.8	1085773.7	67.6	61.0	62.0	35.0
AB12	200294.2	1085773.6	67.9	61.0	62.0	35.0
AB13	200349.4	1085762.7	67.2	61.0	62.0	35.0
AB14	200360.4	1085763.2	67.2	61.0	62.0	35.0
AB15	200504.0	1085725.3	65.6	60.5	61.5	35.0
AB16	200504.4	1085773.3	68.0	62.9	63.9	35.0
AB17	200502.5	1085773.3	68.0	62.8	63.8	35.0
AB18	200502.5	1085753.8	67.4	62.2	63.2	35.0
AB19	200428.0	1085753.8	67.3	61.3	62.3	35.0
AB20	200410.2	1085769.0	68.0	61.5	62.5	35.0
AB21	200428.0	1085794.8	68.4	62.3	63.3	35.0
AB22	200479.6	1085794.8	68.6	63.0	64.0	35.0
AB23	200479.6	1085823.7	69.0	63.9	64.9	35.0
AB24	200529.3	1085823.7	69.8	64.7	65.7	35.0
AB25	200529.6	1085774.4	68.2	63.2	64.2	35.0
AB26	200578.0	1085774.0	67.1	62.1	63.1	35.0
AB27	200584.2	1085798.4	67.9	62.9	63.9	35.0
AB28	200580.6	1085807.4	68.9	63.9	64.9	35.0
AB29	200571.2	1085819.6	69.6	64.6	65.6	35.0
AB30	200546.2	1085838.5	70.2	65.2	66.2	35.0
AB31	200543.1	1085846.8	70.2	65.2	66.2	35.0
AB32	200534.9	1085853.8	70.3	65.3	66.3	35.0
AB33	200526.8	1085854.2	70.2	65.2	66.2	35.0
AB34	200517.9	1085848.7	70.0	65.0	66.0	35.0
AB35	200506.8	1085851.7	69.9	64.9	65.9	35.0
AB36	200489.1	1085868.7	69.8	64.8	65.8	35.0
AB37	200481.9	1085871.1	69.7	64.7	65.7	35.0
AB38	200468.2	1085864.4	69.5	64.5	65.5	35.0
AB39	200434.9	1085822.5	68.8	62.9	63.9	35.0
AB40	200424.9	1085824.3	68.8	62.8	63.8	35.0
AB41	200403.5	1085834.0	69.0	62.7	63.7	35.0
AB42	200389.3	1085836.4	69.0	62.6	63.6	35.0
AB43	200377.8	1085834.3	69.1	62.5	63.5	35.0
AB44	200363.2	1085820.7	69.0	62.2	63.2	35.0
AB45	200347.3	1085818.4	69.0	62.0	63.0	35.0
AB46	200335.3	1085824.2	69.0	62.1	63.1	35.0
AB47	200335.4	1085834.3	69.1	62.2	63.2	35.0
AB48	200342.1	1085843.0	69.3	62.4	63.4	35.0
AB49	200352.0	1085849.1	69.4	62.6	63.6	35.0
AB50	200404.0	1085919.1	70.0	64.1	65.1	35.0
AB51	200411.1	1085922.8	69.9	64.2	65.2	35.0
AB52	200452.2	1085913.1	69.2	64.6	65.6	35.0
AB53	200475.7	1085937.0	70.2	64.9	65.9	35.0
AB54	200505.7	1085939.9	70.7	64.5	65.5	35.0
AB55	200517.7	1085945.4	71.0	64.3	65.3	35.0
AB56	200521.2	1085960.2	71.0	64.1	65.1	35.0
AC1	200428.0	1085775.8	67.3	53.3	53.3	35.0
AC2	200428.0	1085794.8	68.4	54.4	54.4	35.0
AC3	200410.2	1085769.0	68.0	54.0	54.0	35.0
AD1	200539.8	1085723.6	65.1	60.0	61.0	29.0
AD2	200541.3	1085725.1	65.2	60.2	61.2	29.0
AD3	200561.8	1085735.5	66.3	61.2	62.2	29.0
AD4	200567.7	1085744.5	66.7	61.5	62.5	29.0
AD5	200578.0	1085774.0	67.1	62.1	63.1	29.0
AD6	200529.6	1085774.4	68.2	63.2	64.2	29.0
AD7	200529.3	1085823.7	69.8	64.7	65.7	29.0
AD8	200479.6	1085823.7	69.0	63.9	64.9	29.0
AD9	200479.6	1085794.8	68.6	63.0	64.0	29.0
AD10	200502.5	1085794.8	68.5	63.5	64.5	29.0
AD11	200502.5	1085773.3	68.0	62.8	63.8	29.0
AD12	200504.4	1085773.3	68.0	62.9	63.9	29.0
AD13	200504.0	1085725.3	65.6	60.5	61.5	29.0
AD14	200509.2	1085723.9	65.4	60.4	61.4	29.0
AE1	200528.8	1085712.5	64.4	59.4	60.4	18.0
AE2	200533.6	1085717.5	64.8	60.0	61.0	18.0
AE3	200509.2	1085723.9	65.4	60.4	61.4	18.0
AE4	200490.8	1085723.6	65.4	60.4	61.5	18.0
AF1	200528.8	1085712.5	64.4	56.0	56.0	18.0
AF2	200490.8	1085723.6	65.5	56.0	56.0	18.0
AF3	200480.3	1085723.2	65.5	56.0	56.0	18.0
AF4	200480.1	1085700.8	64.1	56.0	56.0	18.0
AF5	200508.9	1085692.4	64.0	56.0	56.0	18.0
AF6	200512.3	1085697.6	64.0	56.0	56.0	18.0
AF7	200518.5	1085701.2	64.0	56.0	56.0	18.0
AF8	200522.5	1085704.5	64.0	56.0	56.0	18.0
AG1	200480.1	1085700.8	64.1	56.0	56.0	35.0
AG2	200480.3	1085723.2	65.5	56.0	56.0	35.0
AG3	200490.8	1085723.6	65.5	56.0	56.0	35.0
AG4	200360.6	1085761.5	67.1	56.0	56.0	35.0
AG5	200359.1	1085756.4	66.8	56.0	56.0	35.0
AG6	200359.8	1085756.0	66.7	56.0	56.0	35.0
AG7	200358.7	1085736.3	65.4	56.0	56.0	35.0
AH1	200539.8	1085723.6	65.1	60.0	61.0	18.0
AH2	200509.2	1085723.9	65.4	60.4	61.4	18.0
AH3	200533.6	1085717.5	64.8	60.0	61.0	18.0
AJ1	200454.5	1085671.6	64.0	56.0	56.0	35.0
AJ2	200337.5	1085705.7	63.5	56.0	56.0	35.0

NODE	NORTHING	EASTING	EXISTING GRADE	BOTTOM OF EXCAVATION	TOP OF SOLIDIFICATION	BOTTOM OF SOLIDIFICATION
AJ3	200325.2	1085700.1	63.2	56.0	56.0	35.0
AJ4	200318.6	1085685.3	63.0	56.0	56.0	35.0
AJ5	200319.6	1085674.5	63.0	56.0	56.0	35.0
AJ6	200328.6	1085667.3	57.6	56.0	56.0	35.0
AJ7	200341.6	1085666.9	56.1	56.0	56.0	35.0
AJ8	200359.5	1085668.2	56.0	56.0	56.0	35.0
AJ9	200391.3	1085684.5	63.0	56.0	56.0	35.0
AJ10	200422.2	1085657.5	64.0	56.0	56.0	35.0
AJ11	200437.9	1085658.1	64.0	56.0	56.0	35.0
AJ12	200449.2	1085666.0	64.0	56.0	56.0	35.0
AK1	200479.4	1086152.7	70.0	66.4	67.4	35.0
AK2	200478.6	1086153.0	70.0	66.5	67.5	35.0
AK3	200476.6	1086155.5	70.0	67.0	68.0	35.0
AK4	200455.7	1086148.5	70.0	67.0	68.0	35.0
AK5	200436.2	1086156.5	70.0	67.0	68.0	35.0
AK6	200416.9	1086125.2	70.0	67.0	68.0	35.0
AK7	200381.2	1086129.8	70.2	67.0	68.0	35.0
AK8	200379.6	1086129.0	70.2	67.0	68.0	35.0
AK9	200379.6	1086123.8	70.2	66.4	67.4	35.0
AK10	200329.0	1086073.8	70.0	64.8	65.8	35.0
AK11	200447.1	1086074.0	70.0	63.9	64.9	35.0
AK12	200446.9	1086135.0	70.0	65.1	66.1	35.0
AL1	200476.6	1086155.5	70.0	68.0	68.0	35.0
AL2	200454.4	1086162.6	70.0	68.0	68.0	35.0
AL3	200454.4	1086156.1	70.0	68.0	68.0	35.0
AL4	200436.8	1086165.6	70.0	68.0	68.0	35.0
AL5	200426.7	1086160.7	70.0	68.0	68.0	35.0
AL6	200413.6	1086131.9	70.0	68.0	68.0	35.0
AL7	200382.8	1086139.0	70.2	68.2	68.2	35.0
AL8	200379.6	1086137.4	70.2	68.2	68.2	35.0
AL9	200379.6	1086129.0	70.2	68.2	68.2	35.0
AL10	200381.2	1086129.8	70.2	68.2	68.2	35.0
AL11	200416.9	1086125.2	70.0	68.0	68.0	35.0
AL12	200435.2	1086156.5	70.0	68.0	68.0	35.0
AL13	200455.7	1086148.5	70.0	68.0	68.0	35.0
AM1	200426.7	1086160.7	70.0	70.0	70.0	35.0
AM2	200382.8	1086139.0	70.2	70.2	70.2	35.0
AM3	200413.6	1086131.9	70.0	70.0	70.0	35.0
AN1	200473.4	1086162.6	70.0	70.0	70.0	35.0
AN2	200471.8	1086168.4	70.0	70.0	70.0	35.0
AN3	200472.8	1086178.6	70.3	70.3	70.3	35.0
AN4	200475.4	1086184.7	70.7	70.7	70.7	35.0
AN5	200436.8	1086165.6	70.0	70.0	70.0	35.0
AN6	200454.4	1086156.1	70.0	70.0	70.0	35.0
AP1	200379.6	1086123.8	70.2	65.2	66.2	29.0
AP2	200382.8	1086139.0	70.2	65.2	66.2	29.0
AP3	200334.5	1086106.7	70.6	65.6	66.6	29.0
AP4	200321.5	1086095.1	70.6	65.6	66.6	29.0
AP5	200304.4	1086091.9	70.7	65.7	66.7	29.0
AP6	200279.6	1086073.7	70.1	65.1	66.1	29.0
AP7	200279.6	1086073.7	70.1	65.1	66.1	29.0
AP8	200329.0	1086073.8	70.0	65.0	66.0	29.0
AQ1	200379.6	1086129.0	70.2	68.2	68.2	29.0
AQ2	200454.4	1086156.1	70.0	68.0	68.0	29.0
AQ3	200329.2	1086112.5	70.7	68.7	68.7	29.0
AQ4	200318.2	1086101.8	70.7	68.7	68.7	29.0
AQ5	200303.0	1086099.6	70.8	68.8	68.8	29.0
AQ6	200285.0	1086090.7	70.7	68.7	68.7	29.0
AQ7	200279.6	1086073.7	70.1	68.1	68.1	29.0
AQ8	200304.4	1086091.9	70.7	68.7	68.7	29.0
AQ9	200321.5	1086095.1	70.6	68.6	68.6	29.0
AQ10	200334.5	1086106.7	70.6	68.6	68.6	29.0
AR1	200329.2	1086112.5	70.7	68.7	68.7	29.0
AR2	200303.0	1086099.6	70.8	68.8	68.8	29.0
AR3	200318.2	1086101.8	70.7	68.7	68.7	29.0
AS1	200216.2	1085777.7	66.0	61.0	62.0	34.0
AS2	200222.5	1085801.3	66.5	61.5	62.5	34.0
AS3	200196.7	1085809.3	66.2	61.2	62.2	34.0
AS4	200188.5	1085783.9	66.0	61.0	62.0	34.0
AT1	200178.4	1085801.8	66.0	53.3	53.3	34.0
AT2	200187.8	1085831.9	66.5	53.1	53.1	34.0
AT3	200180.0	1085826.9	66.2	53.1	53.1	34.0
AT4	200079.1	1085861.1	66.1	52.4	52.4	34.0
AT5	200073.4	1085842.9	65.8	52.5	52.5	34.0
AT6	200152.2	1085817.8	66.0	53.1	53.1	34.0
AT7	200165.6	1085807.7	66.0	53.2	53.2	34.0
AU1	200064.2	1085845.7	65.7	52.4	52.4	32.0
AU2	200064.3	1085845.7	65.7	52.4	52.4	32.0
AU3	200064.5	1085846.0	65.7	52.4	52.4	32.0
AU4	200095.3	1085887.5	66.4	52.2	52.2	32.0
AU5	200025.7	1085933.8	66.0	51.5	51.5	32.0
AU6	199994.9	1085889.0	65.5	51.7	51.7	32.0
AV1	200187.8	1085831.9	66.5	53.1	53.1	34.0
AV2	200225.3	1085951.8	68.0	52.2	52.2	34.0
AV3	200129.4	1085952.2	67.4	51.8	51.8	34.0
AV4	200112.4	1085959.0	67.2	51.6	51.6	34.0
AV5	200101.7	1085958.3	67.0	51.6	51.6	34.0
AV6	200093.0	1085963.3	67.0	51.5	51.5	34.0
AV7	200089.9	1085971.5	67.0	51.4	51.4	34.0
AV8	199927.6	1085888.7	65.0	51.4	51.4	34.0
AV9	200064.2	1085845.4	65.7	52.4	52.4	34.0
AV10	199994.9	1085889.0	65.5	51.7	51.7	34.0
AV11	200025.7	1085933.8	66.0	51.5	51.5	34.0
AV12	200095.3	1085887.5	66.4	52.2	52.2	34.0
AV13	200064.5	1085846.0	65.7	52.4	52.4	34.0
AV14	200064.3	1085845.7	65.7	52.4	52.4	34.0
AV15	200073.4	1085842.9	65.8	52.5	52.5	34.0
AV16	200079.1	1085861.1	66.1	52.4	52.4	34.0

NODE	NORTHING	EASTING	EXISTING GRADE	BOTTOM OF EXCAVATION	TOP OF SOLIDIFICATION	BOTTOM OF SOLIDIFICATION
AV17	200180.0	1085826.9	66.2	53.1	53.1	34.0
AW1	200225.3	1085951.8	68.0	52.2	52.2	36.0
AW2	200240.3	1085999.7	69.0	51.9	51.9	36.0
AW3	200181.3	1085999.3	68.6	51.6	51.6	36.0
AW4	200163.0	1086008.7	68.4	51.4	51.4	36.0
AW5	200125.8	1085989.7	67.9	51.4	51.4	36.0
AW6	200121.1	1085973.7	67.5	51.5	51.5	36.0
AW7	200112.4	1085959.0	67.2	51.6	51.6	36.0
AW8	200129.4	1085952.2	67.4	51.8	51.8	36.0
AX1	200240.3	1085999.7	69.0	51.9	51.9	34.0
AX2	200247.9	1086023.8	69.0	51.7	51.7	34.0
AX3	200230.1	1086023.7	69.0	51.6	51.6	34.0
AX4	200229.9	1086042.8	69.2	51.4	51.4	34.0
AX5	200163.0	1086008.7	68.4	51.4	51.4	34.0
AX6	200181.3	1085999.3	68.6	51.6	51.6	34.0
AY1	200247.9	1086023.8	69.0	51.7	51.7	24.0
AY2	200258.4	1086057.3	69.7	51.4	51.4	24.0
AY3	200229.9	1086042.8	69.2	51.4	51.4	24.0
AY4	200230.1	1086023.7	69.0	51.6	51.6	24.0
AZ1	200188.5	1085783.9	66.0	62.0	62.0	34.0
AZ2	200232.6	1085923.8	68.3	64.3	64.3	34.0
AZ3	200229.5	1085923.8	68.2	64.2	64.2	34.0
AZ4	200229.9	1085851.8	68.1	64.1	64.1	34.0
AZ5	200225.3	1085851.8	68.0	64.0	64.0	34.0
AZ6	200178.4	1085801.8	66.0	62.0	62.0	34.0
AZ7	200165.6	1085807.7	66.0	62.0	62.0	34.0
AZ8	200152.2	1085817.8	66.0	62.0	62.0	34.0
AZ9	199927.6	1085888.7	65.0	61.0	61.0	34.0
AZ10	200125.8	1085989.7	67.9	63.9	63.9	34.0
AZ11	200125.9	1085990.3	67.9	63.9	63.9	34.0
AZ12	200113.6	1085989.4	67.7	63.7	63.7	34.0
AZ13	200102.3	1085994.6	67.4	63.4	63.4	34.0
AZ14	200083.4	1085985.0	67.0	63.0	63.0	34.0
AZ15	200026.3	1085955.9	66.0	62.0	62.0	34.0
AZ16	200012.7	1085934.9	66.0	62.0	62.0	34.0
AZ17	199987.7	1085936.2	66.7	62.7	62.7	34.0
AZ18	199888.0	1085885.4	65.0	61.0	61.0	34.0
AZ19	200145.2	1085804.3	65.3	61.3	61.3	34.0
AZ20	200157.9	1085794.7	65.9	61.9	61.9	34.0
AZ21	200173.9	1085787.4	66.0	62.0	62.0	34.0
BA1	200026.3	1085955.9	66.0	66.0	66.0	34.0
BA2	200012.7	1085934.9	66.0	66.0	66.0	34.0
BA3	199987.7	1085936.2	66.7	66.7	66.7	34.0
BB1	200229.9	1086042.8	69.2	65.2	65.2	34.0
BB2	200229.7	1086059.5	69.6	65.6	65.6	34.0
BB3	200146.5	1086017.1	68.4	64.4	64.4	34.0
BB4	200163.0	1086008.7	68.



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
S	SANITARY MANHOLE
D	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
2.	7/10/14	RTH	GENERAL REVISIONS PER URS REVIEW LETTER 7/7/14
1.	3/12/14	RTH	GENERAL REVISIONS

LEONARDO E. PONZIO
NEW YORK PROFESSIONAL
LAND SURVEYOR LIC. NO. 050292-1

MASER CONSULTING P.A.
Consulting, Municipal & Environmental Engineers
Planners ▪ Surveyors ▪ Landscape Architects
State of N.J. Certificate of Authorization: 24GA27986500

MARMORA OFFICE
156 Stagecoach Road
Marmora, N.J. 08223
Phone (609) 390-1927
Fax (609) 390-0040
email: solutions @ maserconsulting.com

Regional Offices
Red Bank, N.J.
Clinton, N.J.
Hamilton, N.J.
Logan, 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	DATE: FEB. 29, 2012
SCALE: 1"=50'	LATEST REVISION: JULY 10, 2014
INDEX NUMBER: MASU000754	DESIGN BY: BSB
SHEET NUMBER: 1 of 9	

COPYRIGHT © 2014, MASER CONSULTING P.A. - ALL RIGHTS RESERVED
THIS DRAWING IS THE PROPERTY OF MASER CONSULTING P.A. AND IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY PREPARED AND DELIVERED. IT IS NOT TO BE LOANED, COPIED OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF MASER CONSULTING P.A. ANY UNAUTHORIZED USE OF THESE DRAWINGS WILL BE AT THE SOLE RISK OF THE UNAUTHORIZED USER AND WITHOUT LIABILITY TO MASER CONSULTING P.A.

SECOND STREET

FRANKLIN AVENUE

WYDLER PLACE

WENDELL STREET

SEALEY AVENUE

INTERSECTION STREET

POST EXCAVATION LIMITS AS OF 9/17/13 (TYP.)

POST EXCAVATION AREAS AS OF 9/17/13

POST EXCAVATION WEST AREA AS OF 9/17/13

POST-EXCAVATION NORTHEAST AREA AS OF 9/17/13

POST EXCAVATION EAST AREA AS OF 9/17/13

WEST AREA

EAST AREA

OSMW-1

OSMW-2

OSMW-3

PZ-02

PZ-03

MON-C

NATURAL GAS REGULATOR STATION

PARKING LOT

STONE PARKING LOT

FORMER MOLLINEAUX BROS. OIL STORAGE TERMINAL

OIL STORAGE TERMINAL

PROFESSIONAL OFFICE BUILDING

MAILBOXES

BLACKTOP DRIVEWAY

RECHARGE BASIN

INACTIVE L.I.R.R. RIGHT OF WAY

LIPA POWER LINES

PROPERTY LINE

INC. VILLAGE OF GARDEN CITY
INC. VILLAGE OF HEMPSTEAD

N 200,700
E 1,085,500

N 200,000
E 1,085,600

SCALE IN FEET
(1"=50')

50 0 50 100

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

- 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 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
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

LEONARDO E. PONZIO
NEW YORK PROFESSIONAL
LAND SURVEYOR LIC. NO. 050292-1

MASER CONSULTING P.A.
Consulting, Municipal & Environmental Engineers
Planners • Surveyors • Landscape Architects
State of N.J. Certificate of Authorization: 24GA27986500

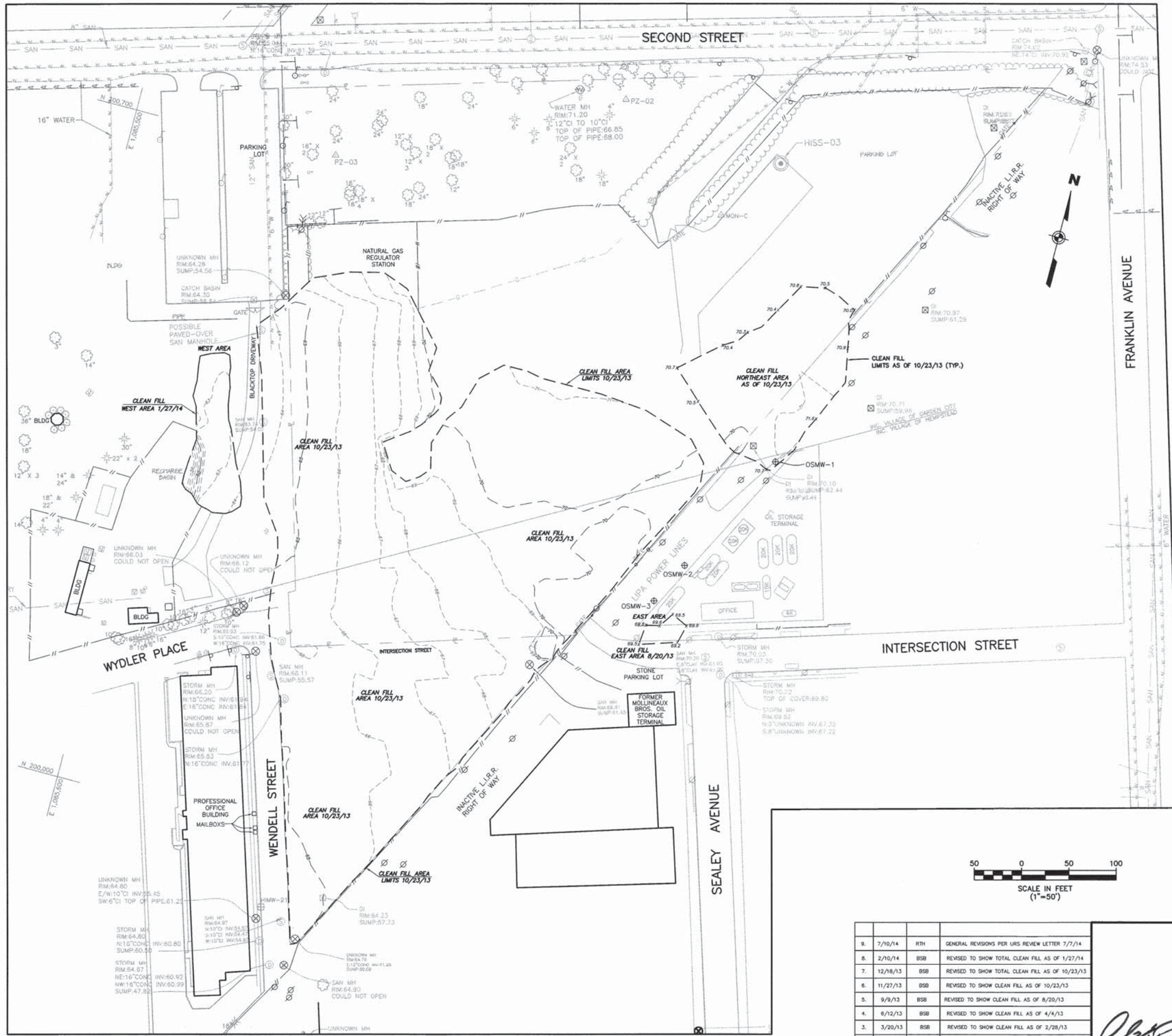
MARMORA OFFICE
156 Stagecoach Road
Marmora, N.J. 08223
Phone (609) 390-1927
Fax (609) 390-0040
email: solutions @ maserconsulting.com

Regional Offices
Red Bank, N.J.
Clinton, N.J.
Hamilton, N.J.
Logan, N.J.
Mt. Arlington, N.J.
Chestnut Ridge, N.Y
Newburgh, N.Y.
Bethlehem, PA.

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
DATE: FEB. 29, 2012
SCALE: 1"=50'
LATEST REVISION: JULY 10, 2014
INDEX NUMBER: MASU000770
DESIGN BY: BSB
SHEET NUMBER: 2 of 9

COPYRIGHT © 2014, MASER CONSULTING P.A. - ALL RIGHTS RESERVED
THIS DRAWING AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF MASER CONSULTING P.A. AND NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF MASER CONSULTING P.A.



50 0 50 100

SCALE IN FEET (1"=50')

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
- 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
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.	6/12/13	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

LEONARDO E. PONZIO
NEW YORK PROFESSIONAL LAND SURVEYOR LIC. NO. 050292-1

MASER CONSULTING P.A.
Consulting, Municipal & Environmental Engineers
Planners • Surveyors • Landscape Architects
State of N.J. Certificate of Authorization: 24GA27986500

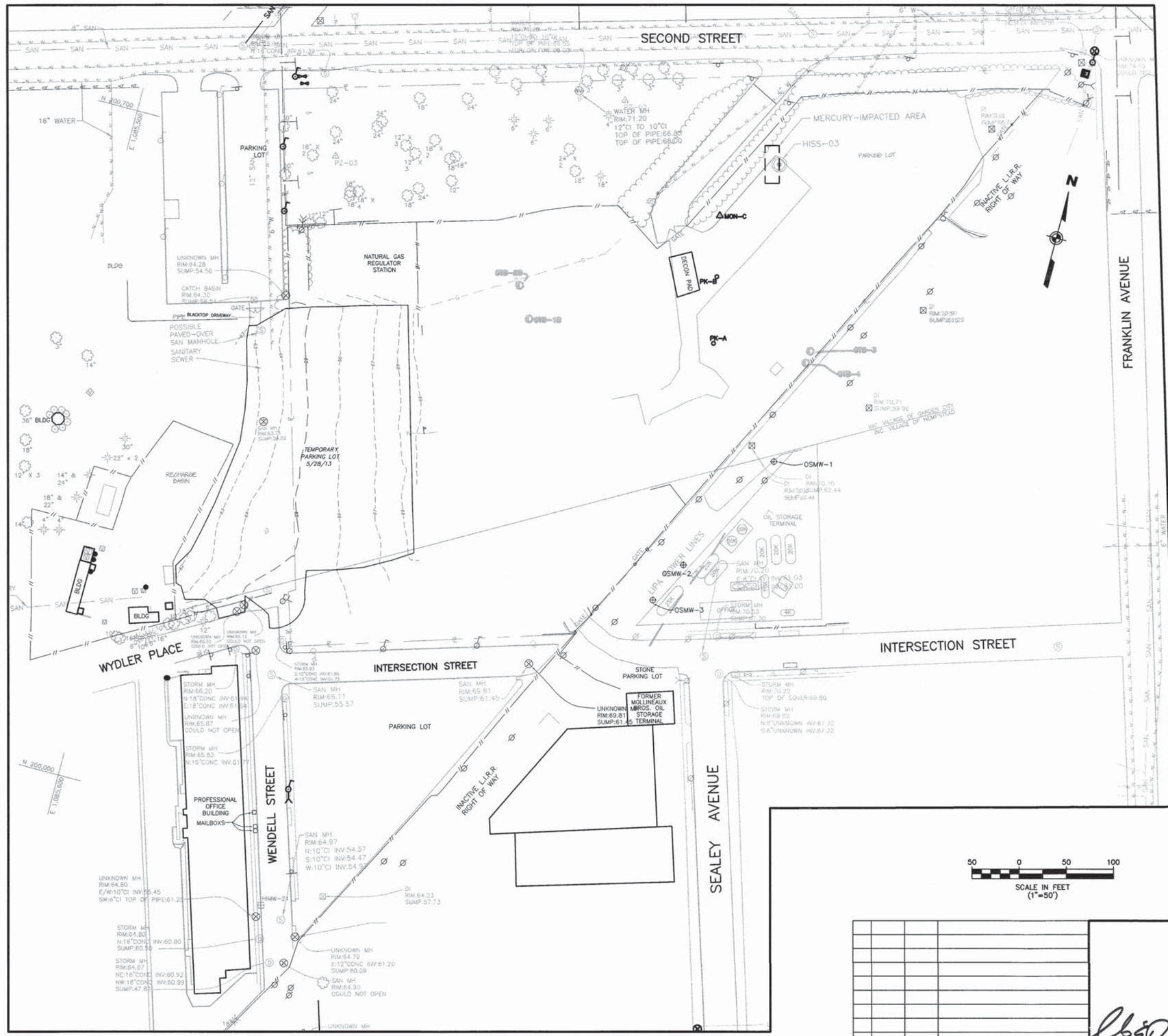
MARMORA OFFICE
156 Stagecoach Road
Marmora, N.J. 08223
Phone (609) 390-1927
Fax (609) 390-0040
email: solutions @ maserconsulting.com

Regional Offices
Red Bank, N.J.
Clinton, N.J.
Hamilton, N.J.
Logan, N.J.
Mt. Arlington, N.J.
Chestnut Ridge, N.Y.
Newburgh, N.Y.
Bethlehem, PA.

CLEAN FILL 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: 110009777A	DATE: FEB. 29, 2012
SCALE: 1"=50'	LATEST REVISION: JULY 10, 2014
INDEX NUMBER: MASU000775	DESIGN BY: BSB
SHEET NUMBER: 3 of 9	

COPYRIGHT© 2014, MASER CONSULTING P.A.-ALL RIGHTS RESERVED
THESE DRAWINGS ARE THE PROPERTY OF MASER CONSULTING P.A. AND MAY NOT BE USED, REPRODUCED, ALTERED, STORED OR TRANSMITTED, IN WHOLE OR IN PART, IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING AND RECORDING, OR STORED IN ANY RETRIEVAL SYSTEM OF ANY KIND, WITHOUT THE PRIOR WRITTEN PERMISSION OF MASER CONSULTING P.A.



GENERAL NOTES

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
- 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
1.	7/10/14	RTH	GENERAL REVISIONS PER URS REVIEW LETTER 7/7/14

LEONARDO E. PONZIO
NEW YORK PROFESSIONAL LAND SURVEYOR LIC. NO. 050292-1

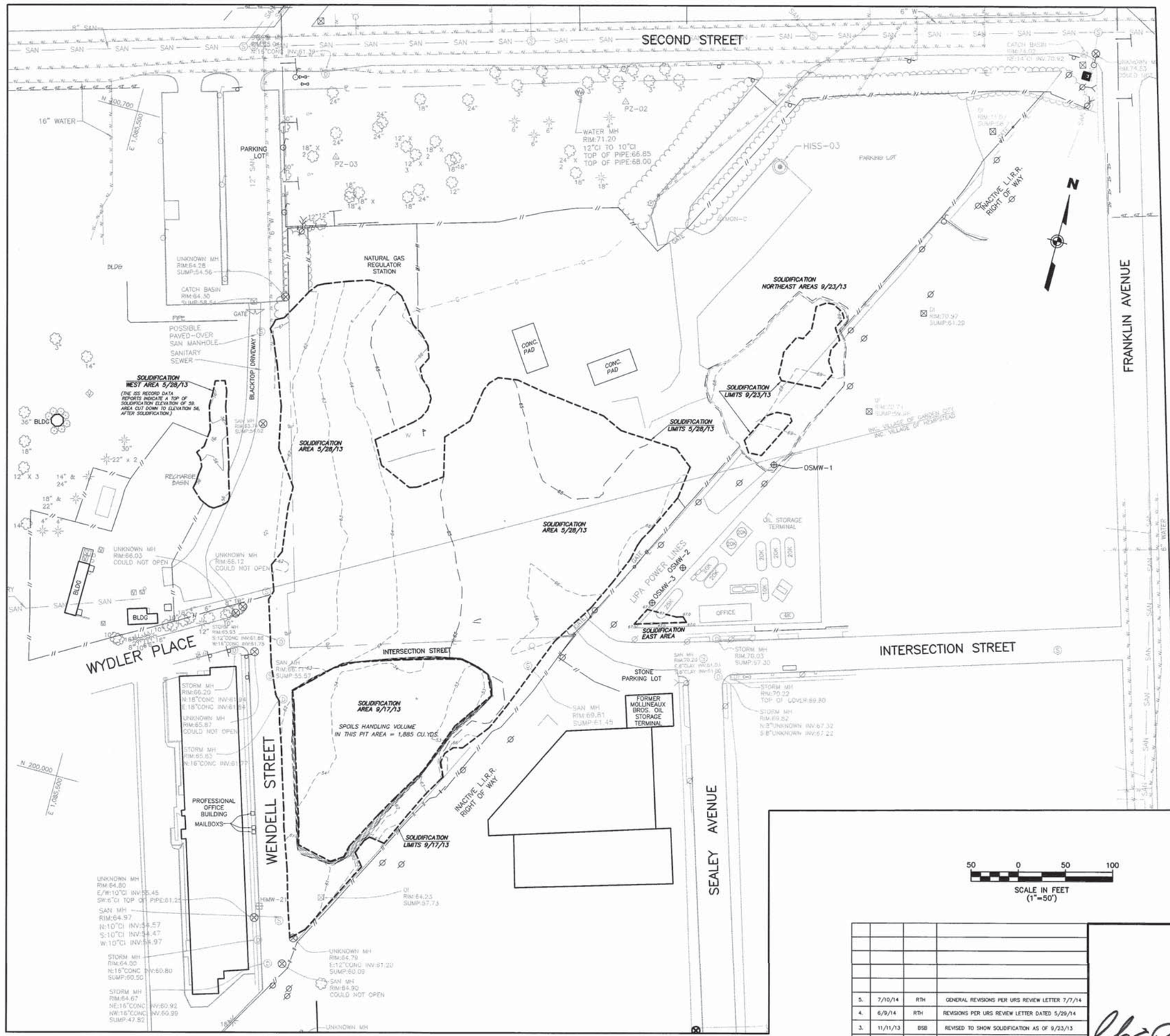
MASER CONSULTING P.A.
Consulting, Municipal & Environmental Engineers
Planners • Surveyors • Landscape Architects
State of N.J. Certificate of Authorization: 24GA27986500

MARMORA OFFICE
156 Stagecoach Road
Marmora, N.J. 08223
Phone (609) 390-1927
Fax (609) 390-0040
email: solutions @ maserconsulting.com

Regional Offices
Red Bank, N.J.
Clinton, N.J.
Hamilton, N.J.
Logan, N.J.
Mt. Arlington, N.J.
Chestnut Ridge, N.Y.
Newburgh, N.Y.
Bethlehem, PA.

TEMPORARY PARKING LOT 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: JUNE 12, 2013
SCALE: 1"=50'	LATEST REVISION: JULY 10, 2014
INDEX NUMBER: MASU001161	DESIGN BY: BSB
SHEET NUMBER: 4 of 9	



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

Ø	UTILITY POLE
LP	LIGHT POLE
S	SANITARY MANHOLE
D	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
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

LEONARDO E. PONZIO
NEW YORK PROFESSIONAL LAND SURVEYOR LIC. NO. 050292-1

MASER CONSULTING P.A.
Consulting, Municipal & Environmental Engineers • Planners • Surveyors • Landscape Architects
State of N.J. Certificate of Authorization: 24GA27986500
MARMORA OFFICE
156 Stagecoach Road
Marmora, N.J. 08223
Phone (609) 390-1927
Fax (609) 390-0040
email: solutions @ maserconsulting.com
Regional Offices
Red Bank, N.J.
Clinton, N.J.
Hamilton, N.J.
Logan, N.J.
Mt. Arlington, N.J.
Chestnut Ridge, N.Y.
Newburgh, N.Y.
Bethlehem, PA.

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

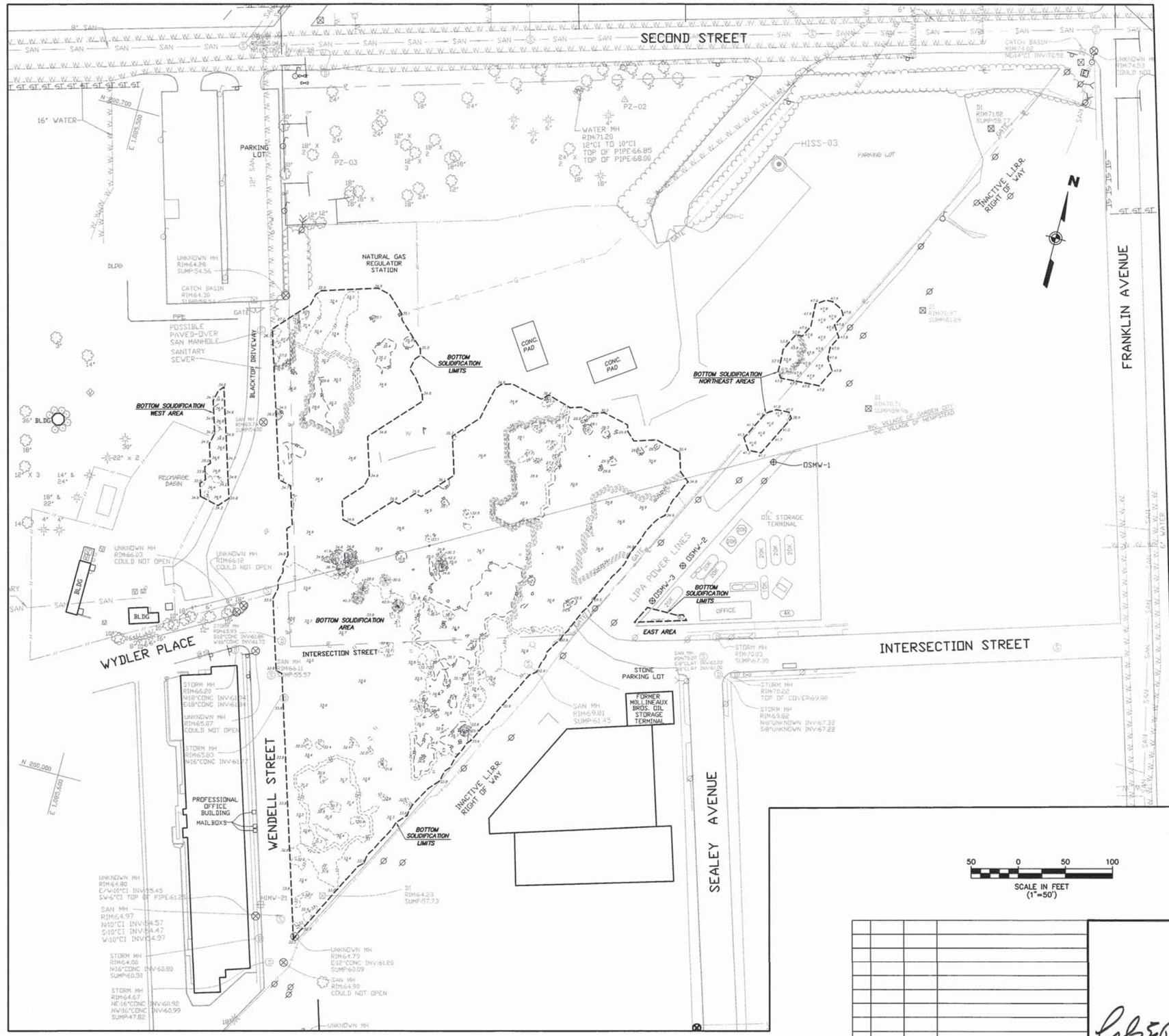
FOR

ENTACT, LLC

VILLAGE OF HEMPSTEAD NASSAU COUNTY NEW YORK

JOB NUMBER: 11000977A	DATE: MARCH 20, 2013
SCALE: 1"=50'	LATEST REVISION: JULY 10, 2014
INDEX NUMBER: MASU001075	DESIGN BY: BSB
SHEET NUMBER: 5 of 9	

COPYRIGHT © 2014, MASER CONSULTING P.A.—ALL RIGHTS RESERVED
THIS DRAWING AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF MASER CONSULTING P.A. AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT WAS PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF MASER CONSULTING P.A. ANY REUSE WITHOUT SUCH WRITTEN VERIFICATION OR ADAPTATION WILL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO MASER CONSULTING P.A. ALL TITLES AND RIGHTS ARE RESERVED REGARDLESS OF APPLICABLE COPYRIGHT NOTICE. NO PART OF THIS DRAWING SHALL BE COPIED, REPRODUCED, PUBLISHED OR USED IN ANY WAY WITHOUT PERMISSION. ALL UNAUTHORIZED USERS WILL BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.



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 ENTACT, 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
S	SANITARY MANHOLE
D	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

COPYRIGHT © 2014, MASER CONSULTING P.A.—ALL RIGHTS RESERVED
THIS DRAWING IS THE PROPERTY OF MASER CONSULTING P.A. AND IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS PREPARED AND IS NOT TO BE LOANED, COPIED OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF MASER CONSULTING P.A.

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

LEONARDO E. PONZIO
NEW YORK PROFESSIONAL LAND SURVEYOR LIC. NO. 050292-1

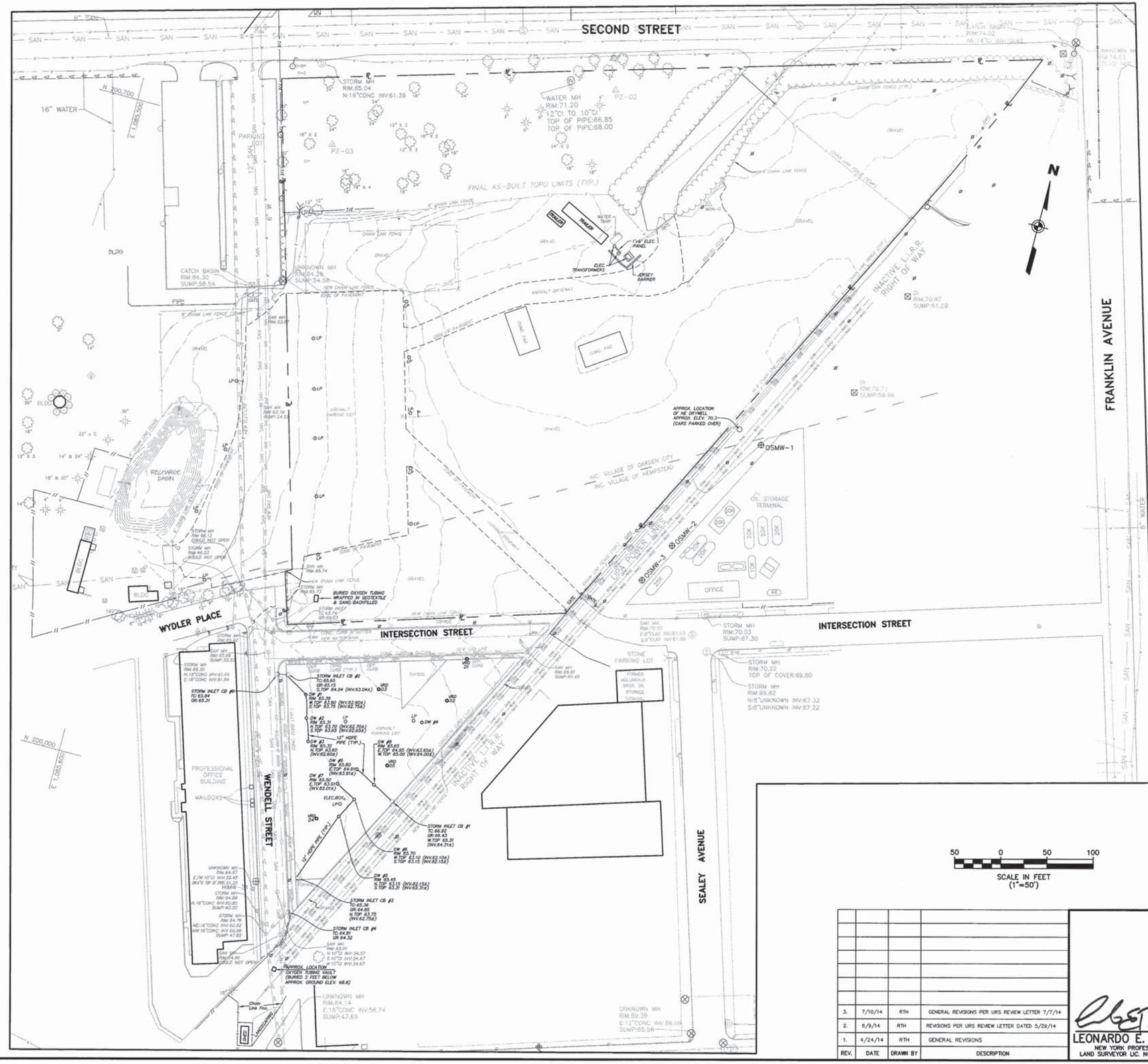
MASER CONSULTING P.A.
Consulting, Municipal & Environmental Engineers
Planners • Surveyors • Landscape Architects
State of N.J. Certificate of Authorization: 24GA27986500

MARMORA OFFICE
156 Stagecoach Road
Marmora, N.J. 08223
Phone (609) 390-1927
Fax (609) 390-0040
email: solutions @ maserconsulting.com

Regional Offices:
Red Bank, N.J.
Clinton, N.J.
Hamilton, N.J.
Logan, N.J.
Mt. Arlington, N.J.
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
ENTACT, 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 & ENTACT 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

VRD D2	VERTICAL RELIEF DRAIN
DW #1	DRY WELL
	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
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

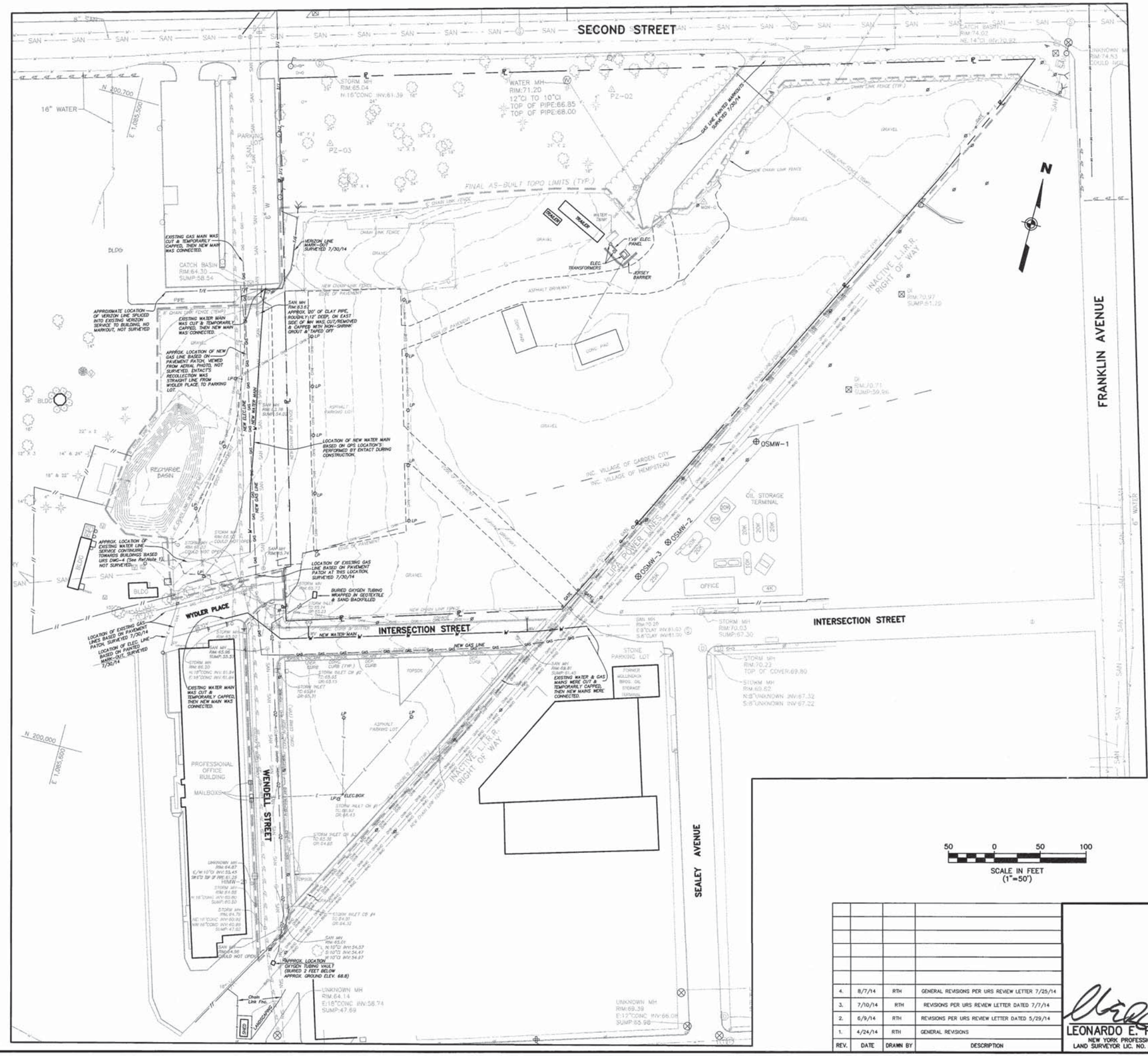
LEONARDO E. PONZIO
NEW YORK PROFESSIONAL LAND SURVEYOR LIC. NO. 050292-1

MASER CONSULTING P.A.
Consulting, Municipal & Environmental Engineers
Planners • Surveyors • Landscape Architects
State of N.J. Certificate of Authorization: 24GA27996500
MARMORA OFFICE
156 Stagecoach Road
Marmora, N.J. 08223
Phone (609) 390-1927
Fax (609) 390-0040
email: solutions @ maserconsulting.com
Regional Offices
Red Bank, N.J.
Clinton, N.J.
Hamilton, N.J.
Logan, N.J.
Mt. Arlington, N.J.
Chestnut Ridge, N.Y.
Newburgh, N.Y.
Bethlehem, PA.

DRYWELLS AND STORM DRAIN SYSTEM 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 17, 2014
SCALE: 1"=50'	LATEST REVISION: JULY 10, 2014
INDEX NUMBER: MASU001387	DESIGN BY: BSB
SHEET NUMBER: 7 of 9	

COPYRIGHT © 2014, MASER CONSULTING P.A. - ALL RIGHTS RESERVED
THESE PLANS ARE THE PROPERTY OF MASER CONSULTING P.A. AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY PROJECT OTHER THAN THE ONE FOR WHICH THEY ARE PREPARED. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY MASER CONSULTING P.A. FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO MASER CONSULTING P.A. ALL RIGHTS RESERVED UNDER THE COPYRIGHT LAWS OF THE UNITED STATES (17USC 101 ET SEQ.) AND ANY OTHER APPLICABLE STATUTORY PROVISION OR COMMON LAW DOCTRINE.



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

- Ø UTILITY POLE
- LP LIGHT POLE
- S SANITARY MANHOLE
- ST 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
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

LEONARDO E. PONZIO
NEW YORK PROFESSIONAL LAND SURVEYOR LIC. NO. 050292-1

MASER CONSULTING P.A.
Consulting, Municipal & Environmental Engineers
Planners • Surveyors • Landscape Architects
State of N.J. Certificate of Authorization: 24GA27986500

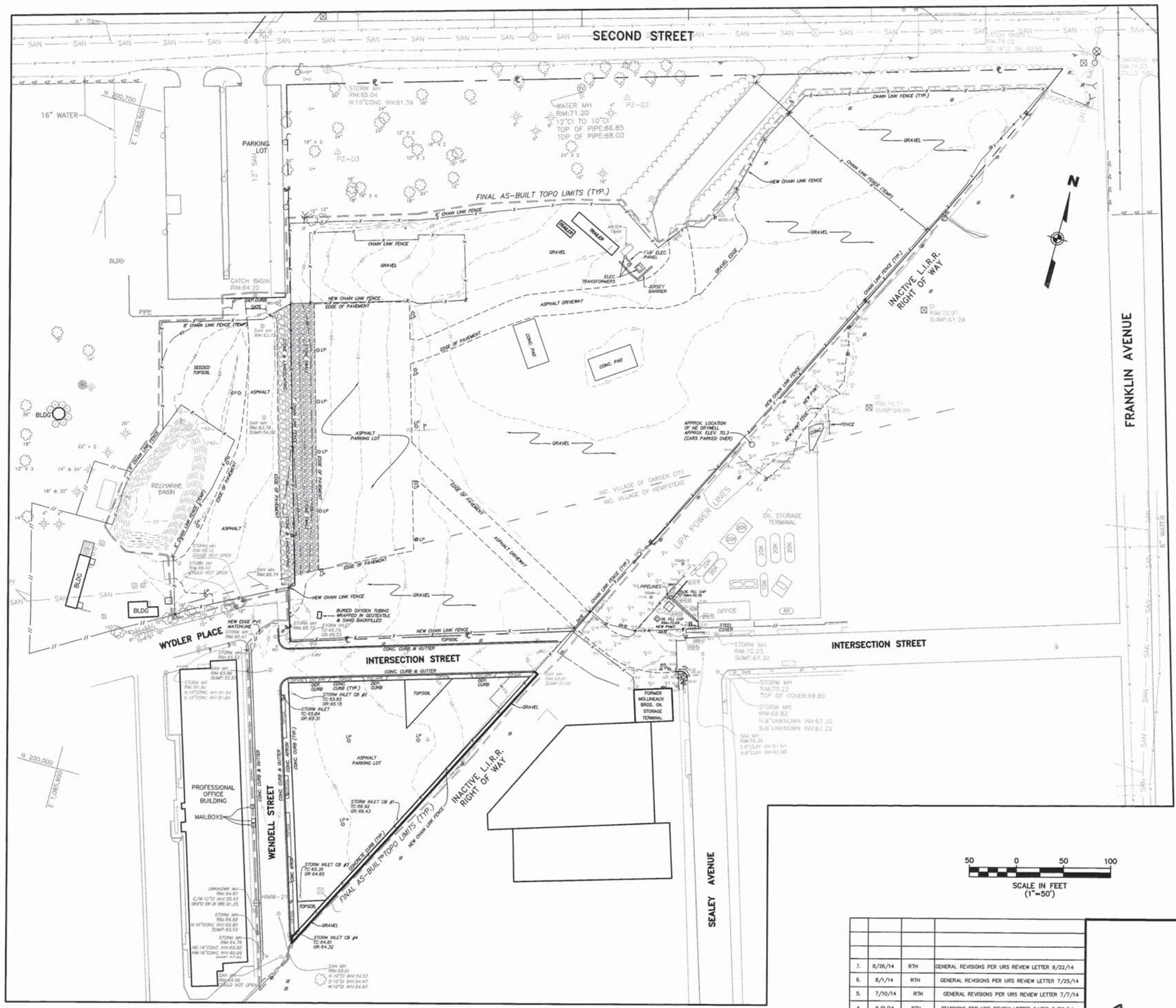
MARMORA OFFICE
156 Stagecoach Road
Marmora, N.J. 08223
Phone (609) 390-1927
Fax (609) 390-0040
email: solutions @ maserconsulting.com

Regional Offices
Red Bank, N.J.
Clinton, N.J.
Hamilton, N.J.
Logan, N.J.
Mt. Arlington, N.J.
Chestnut Ridge, NY
Newburgh, N.Y.
Bethlehem, PA.

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:	AUGUST 7, 2014
INDEX NUMBER:	MASU001381
DESIGN BY:	BSB
SHEET NUMBER:	8 of 9

COPYRIGHT © 2014, MASER CONSULTING P.A. - ALL RIGHTS RESERVED
THIS DRAWING IS THE PROPERTY OF MASER CONSULTING P.A. AND IS NOT TO BE COPIED, USED, LOANED, REVISED, DISCLOSED OR RELIED UPON FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF MASER CONSULTING P.A. AND ANY UNAUTHORIZED USE SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO MASER CONSULTING P.A.



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
- 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
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.

LEONARDO E. PONZIO
NEW YORK PROFESSIONAL
LAND SURVEYOR LIC. NO. 050292-1

MASER CONSULTING P.A.
Consulting, Municipal & Environmental Engineers
Planners • Surveyors • Landscape Architects
State of N.J. Certificate of Authorization: 24GA27986500

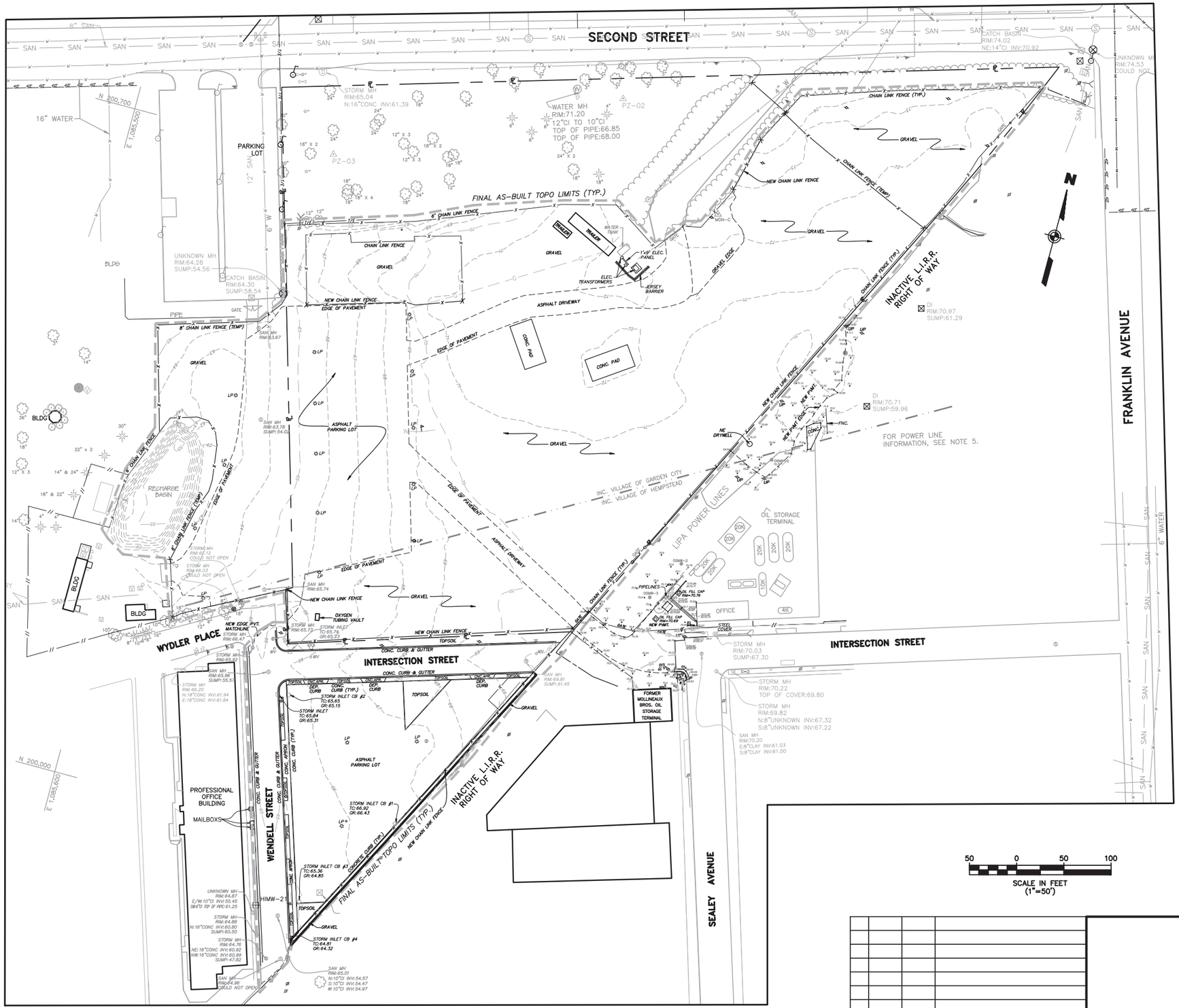
MARMORA OFFICE
156 Stagecoach Road
Marmora, N.J. 08223
Phone (609) 390-1927
Fax (609) 390-0040
email: solutions @ maserconsulting.com

Regional Offices
Red Bank, N.J.
Clinton, N.J.
Hamilton, N.J.
Ivyon, N.J.
Mt. Arlington, N.J.
Chestnut Ridge, N.Y.
Newburgh, N.Y.
Bethlehem, 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: AUGUST 26, 2014
INDEX NUMBER: MASU001323	DESIGN BY: BSB
SHEET NUMBER: 9 of 9	

COPYRIGHT © 2014, MASER CONSULTING P.A. – ALL RIGHTS RESERVED
THIS DRAWING AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF MASER CONSULTING P.A. AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF MASER CONSULTING P.A.



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
- FIRE HYDRANT
- WV WATER VALVE
- UNKNOWN MANHOLE
- GAS GAS MAIN
- W WATER MAIN
- SAN SANITARY MAIN
- ST ST STORM PIPE
- O2 OXYGEN PIPELINE
- OHW 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.

LEONARDO E. PONZIO
NEW YORK PROFESSIONAL LAND SURVEYOR LIC. NO. 050292-1

MASER CONSULTING P.A.
Consulting, Municipal & Environmental Engineers
Planners ■ Surveyors ■ Landscape Architects
State of N.J. Certificate of Authorization: 24GA27986500

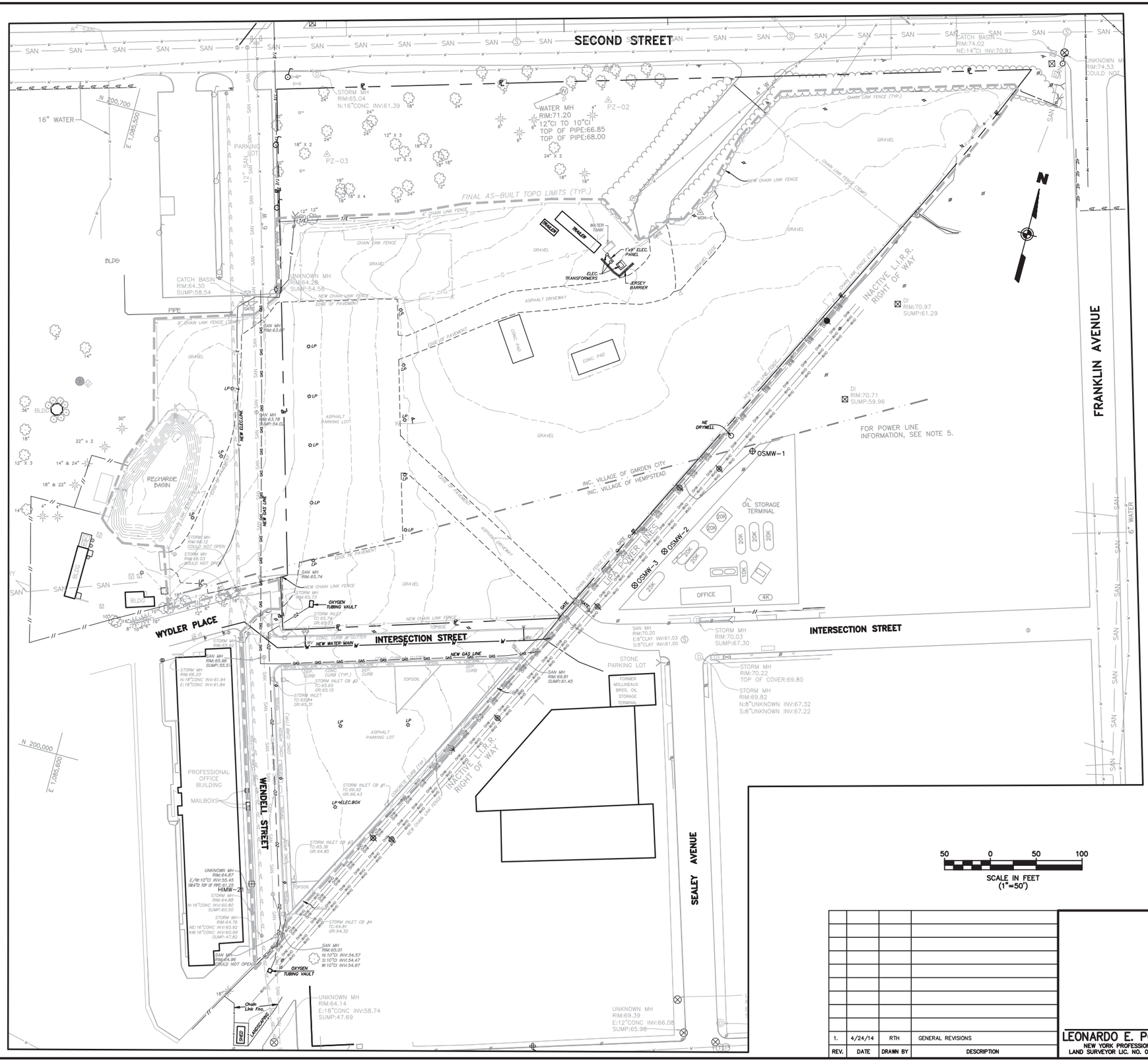
MARMORA OFFICE
156 Stagecoach Road
Marmora, N.J. 08223
Phone (609) 390-1927
Fax (609) 390-0040
email: solutions @ maserconsulting.com

Regional Offices
Red Bank, N.J.
Clinton, N.J.
Hamilton, N.J.
Logan, N.J.
Mt. Arlington, N.J.
Chestnut Ridge, N.Y.
Newburgh, N.Y.
Bethlehem, 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	

COPYRIGHT © 2014, MASER CONSULTING P.A. - ALL RIGHTS RESERVED
THIS DRAWING AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF MASER CONSULTING, P.A. AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY PURPOSE OR PROJECT WITHOUT THE WRITTEN CONSENT OF MASER CONSULTING, P.A. AND SHALL NOT BE LOANED, COPIED OR REPRODUCED.



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 — GAS MAIN
- W — WATER MAIN
- SAN — SANITARY MAIN
- ST — ST — STORM PIPE
- O2 — OXYGEN PIPELINE
- OHW — OVERHEAD WIRES
- MON-C — CONCRETE MONUMENT

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

LEONARDO E. PONZIO
NEW YORK PROFESSIONAL
LAND SURVEYOR LIC. NO. 050292-1

MASER CONSULTING P.A.
Consulting, Municipal & Environmental Engineers
Planners ▪ Surveyors ▪ Landscape Architects
State of N.J. Certificate of Authorization: 24GA27996500

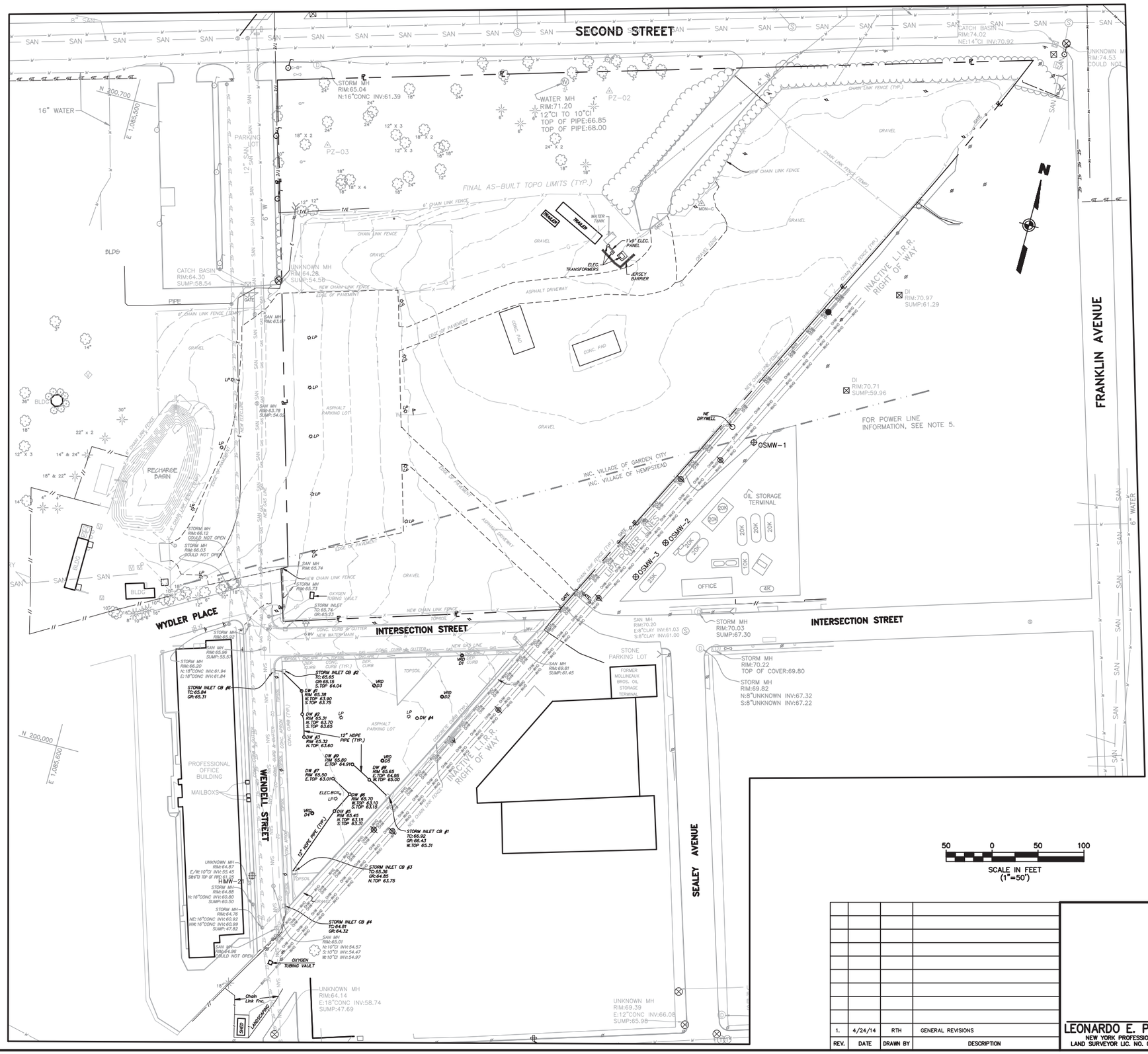
MARMORA OFFICE
156 Stagecoach Road
Marmora, N.J. 08223
Phone (609) 390-1927
Fax (609) 390-0040
email: solutions @ maserconsulting.com

Regional Offices
Red Bank, N.J.
Clinton, N.J.
Hamilton, N.J.
Logan, N.J.
Mt. Arlington, N.J.
Chestnut Ridge, N.Y.
Newburgh, N.Y.
Bethlehem, PA.

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

COPYRIGHT © 2014, MASER CONSULTING P.A. - ALL RIGHTS RESERVED
THIS DRAWING IS THE PROPERTY OF MASER CONSULTING P.A. AND IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS CONTRACTED, AND WHEN IT IS LOANED, THIS DRAWING MAY BE COPIED, REUSED, DISCLOSED, LOANED OR ALTERED IN ANY WAY FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF MASER CONSULTING P.A.



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 & ENTACT 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 D2	VERTICAL RELIEF DRAIN
DW #1	DRY WELL
	UTILITY POLE
LP	LIGHT POLE
S	SANITARY MANHOLE
D	STORM MANHOLE
	FIRE HYDRANT
WV	WATER VALVE
⊗	UNKNOWN MANHOLE
GAS	GAS MAIN
W	WATER MAIN
SAN	SANITARY MAIN
ST	STORM PIPE
O2	OXYGEN PIPELINE
OHW	OVERHEAD WIRES
MON-C	CONCRETE MONUMENT

COPYRIGHT © 2014, MASER CONSULTING P.A. - ALL RIGHTS RESERVED
THESE PLANS ARE AN INSTRUMENT OF SERVICE AND SHALL REMAIN THE PROPERTY OF MASER CONSULTING P.A. WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THE REPRODUCTION, ALTERATION OR USE OF THESE PLANS WITHOUT THE WRITTEN CONSENT OF MASER CONSULTING P.A. IS PROHIBITED AND ANY UNAUTHORIZED USE SHALL BE AT THE RISK OF THE USER. MASER CONSULTING P.A. ACCEPTS NO RESPONSIBILITY FOR DAMAGES SUFFERED AS A RESULT OF UNAUTHORIZED USE OR ALTERATION OF THESE PLANS.

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

LEONARDO E. PONZIO
NEW YORK PROFESSIONAL LAND SURVEYOR LIC. NO. 050292-1

MASER CONSULTING P.A.
Consulting, Municipal & Environmental Engineers
Planners ■ Surveyors ■ Landscape Architects
State of N.J. Certificate of Authorization: 24GA27996500

MARMORA OFFICE
156 Stagecoach Road
Marmora, N.J. 08223
Phone (609) 390-1927
Fax (609) 390-0040
email: solutions @ maserconsulting.com

Regional Offices
Red Bank, N.J.
Clinton, N.J.
Hamilton, N.J.
Logan, N.J.
Mt. Arlington, N.J.
Chestnut Ridge, N.Y
Newburgh, N.Y.
Bethlehem, PA.

DRYWELLS AND STORM DRAIN SYSTEM 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 17, 2014
SCALE: 1"=50'	LATEST REVISION: APRIL 24, 2014
INDEX NUMBER: MASU001387	DESIGN BY: BSB
SHEET NUMBER: 1 of 1	