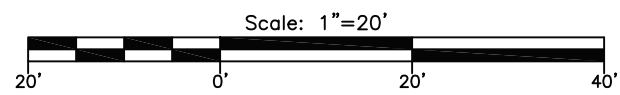


- PRE-REMEDIAL ACTIVITIES:**
- A. SALT BARN.
 - i. SALT BARN, BIN BLOCKS, AND ANY REMAINING SALT WILL BE REMOVED PRIOR TO INITIATING REMEDIAL ACTIVITIES.
 - ii. ASPHALT PAD AND CONCRETE FOOTER WILL BE SAW-CUT ALONG THE LIMIT OF EXCAVATION.
 - iii. ASPHALT PAD AND CONCRETE FOOTER WITHIN THE LIMIT OF EXCAVATION WILL BE BROKEN INTO MANAGEABLE PIECES FOR OFF-SITE DISPOSAL OR RECYCLING AS DETERMINED BY RADIOLOGICAL FIELD MEASUREMENTS.
 - B. ABANDONED UTILITIES ARE SHOWN IN THE AREA.
 - C. EXISTING UTILITIES ARE SHOWN IN THE AREA AND WILL BE MANAGED AS FOLLOWS:
 - i. EXISTING 6" WATER LINE WILL REMAIN OPERATIONAL.
 - ii. WATER LINE WILL BE PROPERLY MARKED OUT.
 - iii. WATER LINE DEPTH WILL BE DETERMINED USING A TEST PIT PRIOR TO COMMENCING REMEDIAL ACTIVITIES.
 - iv. WATER LINE SUSPENDED IN THE EXCAVATION WILL BE SUPPORTED TO PREVENT DAMAGE.
 - ii. EXISTING 15" STORM SEWER PARALLEL TO THE SANITARY SEWER WILL BE TEMPORARILY REMOVED FROM SERVICE.
 - i. EXISTING 12" STORM SEWER WILL BE PLUGGED AT THE SOUTHWEST INVERT OF THE FSSU 105 MANHOLE TO MINIMIZE STORM WATER DISCHARGE TO THE 15" STORM SEWER.
 - ii. SUBMERSIBLE PUMP WITH FLOAT WILL BE PLACED IN THE FSSU 105 MANHOLE TO DIVERT STORM WATER TO A NEARBY ACTIVE STORM SEWER MANHOLE.
 - a. PUMP SIZE AND DISCHARGE LOCATION WILL BE DETERMINED BY CABRERA.
 - iii. 15" STORM SEWER WILL BE EXCAVATED AND REMOVED AS PART OF REMEDIAL ACTIVITIES.
 - iv. STORM SEWER WILL BE REPLACED DURING RESTORATION ACTIVITIES.
 - D. OPERATIONS WILL DEMARCATe EXCLUSION ZONE WITH HIGH VISIBILITY FENCE.
 - E. CRZ AND AIR MONITORS WILL BE PLACED AS DIRECTED BY SRSL.


- REMEDIAL ACTIVITIES:**
- A. WATER FOR DUST SUPPRESSION TO BE SUPPLIED FROM WATER TRUCK, POLYETHYLENE TANK OR NEAREST FIRE HYDRANT.
 - B. TRUCK ACCESS TO BE DETERMINED BY OPERATIONS.
 - C. EXCAVATION.
 - i. EXCAVATION IS NOT TO EXTEND BEYOND LIMITS SHOWN WITHOUT APPROVAL FROM SITE MANAGER, PROJECT ENGINEER, AND USACE.
 - ii. DEPTH OF EXCAVATION IS EXPECTED TO BE APPROXIMATELY 14'-0".
 - i. BENCHING AT 1.5:1 WILL BE UTILIZED.
 - D. EXCAVATION SEQUENCE.
 - i. EXCAVATION WILL BEGIN AT THE NORTHERN MOST EXTENT OF THE 18" SANITARY SEWER AND CONTINUE SOUTH.
 - ii. EXCAVATION WILL BE GUIDED USING RADIOLOGICAL FIELD MEASUREMENTS AND ON-SITE LABORATORY RESULTS.
 - iii. EXCAVATED MATERIAL WILL BE SENT FOR OFF-SITE DISPOSAL OR BENEFICIAL REUSE PROCESSING USING RADIOLOGICAL FIELD MEASUREMENTS.
 - E. ABANDONED MANHOLE AT THE SOUTHERN MOST EXTENT OF THE 18" SANITARY SEWER WILL BE DEMOLISHED.
 - i. MANHOLE BASE WILL NOT BE REMOVED UNLESS IMPACTED BY CONTAMINATED MATERIAL.
 - F. BELOW GRADE STRUCTURES WILL ONLY BE REMOVED WHEN IMPACTED BY CONTAMINATED MATERIAL.
 - G. DUST SUPPRESSION WATER AND GROUND WATER WILL BE COLLECTED VIA SUMP AND TREATED IN ACCORDANCE WITH THE SEWER DISCHARGE PERMIT BEFORE DISCHARGE THROUGH THE NEAREST SANITARY SEWER MANHOLE.
- * ANY CHANGE TO THIS APPROACH MUST BE APPROVED BY THE SITE MANAGER OR PROJECT ENGINEER.



LEGEND

[Orange box]	SALT BARN
[Red dashed line]	PROPOSED REMEDIATION AREA
[Blue dashed line]	LIMIT OF EXCAVATION
[Orange dashed line]	EXCLUSION ZONE
[Orange line]	FSSU 104
[Green line]	FSSU 105
[Green dashed line]	EXISTING STORM
[Green dashed line]	EXISTING SANITARY
[Blue dashed line]	EXISTING WATER
[Green dashed line]	ABANDONED STORM
[Green dashed line]	ABANDONED SANITARY
[Blue dashed line]	ABANDONED WATER
[Blue dashed line]	ABANDONED CHILLED WATER
[Red dashed line]	ABANDONED ELECTRIC
[Red circle]	COLLECTED SAMPLE

**LINDE FUSRAP Site
Tonawanda, NY
W912P4-07-D-0002, 0002**



CABRERA SERVICES
RADIOLOGICAL · ENGINEERING · REMEDIATION

**Area F 18" Sanitary Sewer
Remedial Excavation Layout**

Area/Subtask	Drawing No.	Rev. Date
Area F	AF-002	01/08/2014

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