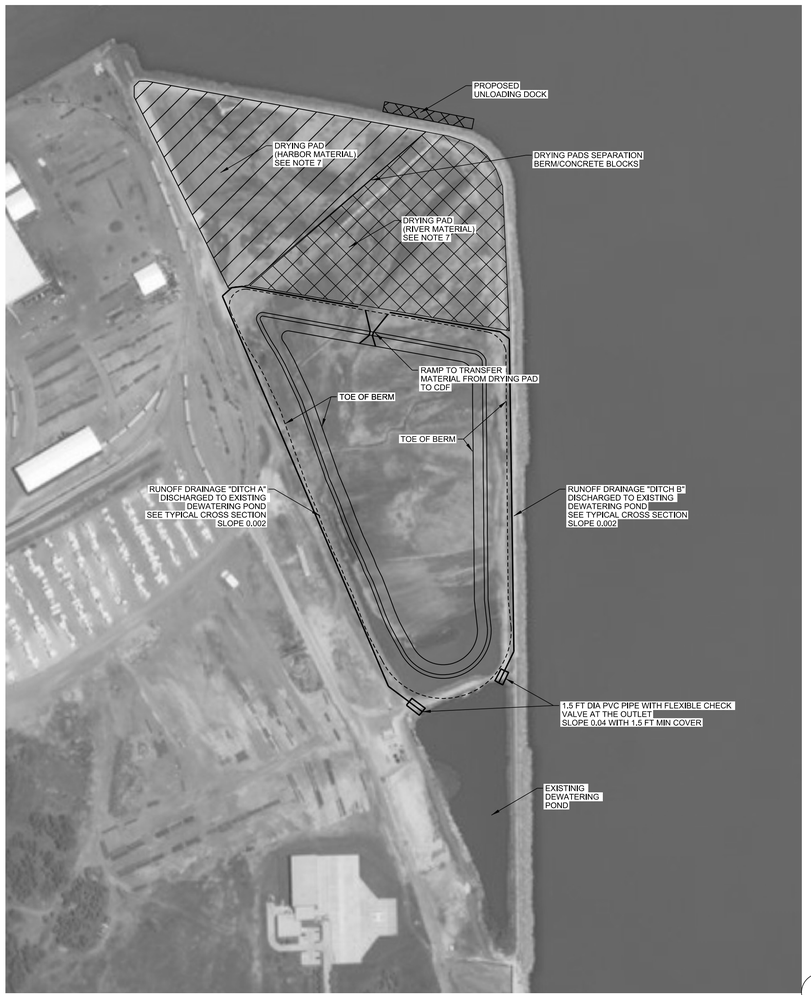
US Army Corps of Engineers
Chicago District

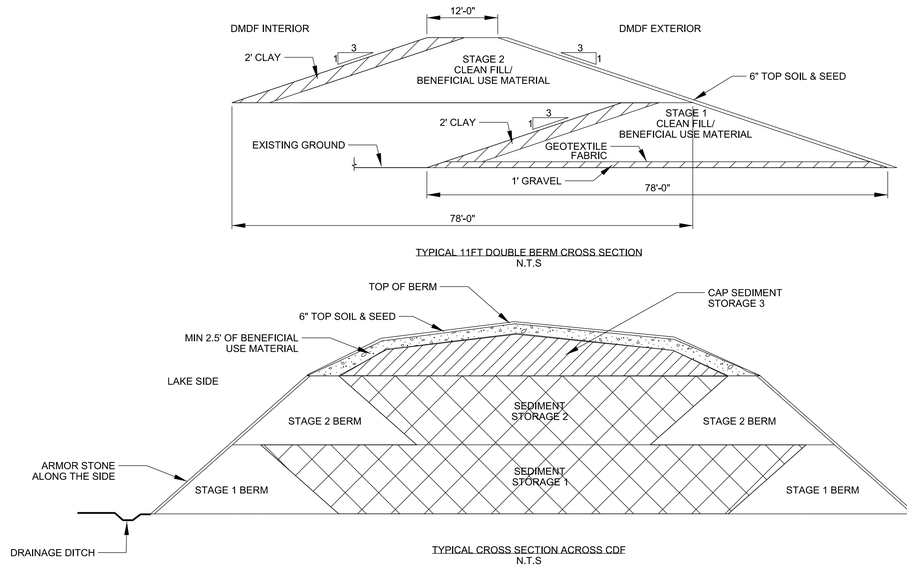
Chicago Area Waterway System

Dredged Material Management Plan

How would the vertical expansion be designed?

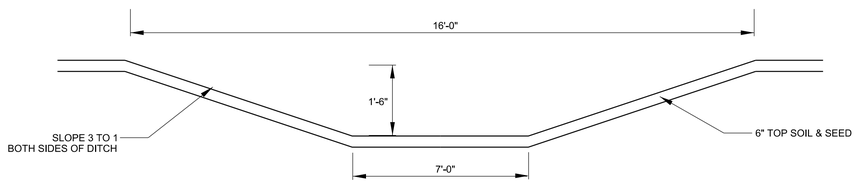


B1 PLAN VIEW - EXISTING CHICAGO CDF EXPANSION PLAN
SCALE: 1" = 200'



TYPICAL 11FT DOUBLE BERM CROSS SECTION
N.T.S

TYPICAL CROSS SECTION ACROSS CDF
N.T.S



TYPICAL CROSS SECTION ACROSS DITCH A AND B
N.T.S

1. EXISTING CONCRETE BLOCKS WALL WILL BE REMOVED.

2. ALL MATERIAL SHALL REMAIN ON SITE.

3. DIKE WILL BE BUILT WITH 25 OFFSET FROM EDGE TO REDUCE LOADING ON EXISTING BREAKWATER WALL.

4. NEWLY CONSTRUCTED DIKE WILL BE ARMORED ON THE BOTTOM FOR WAVE PROTECTION. DRAINAGE DITCH WILL BE CONSTRUCTED TO COLLECT ANY STORM RUNOFF ON THE EXTERIOR SIDE OF DIKE.

5. ASSUME NEW FILTER CELLS, NEW DISCHARGE PIPE AND 3 IROQUOIS LANDING WELLS.

6. ASSUME INSIDE OF THE CDF CONSTRUCTION OF WATER HANDLING STRUCTURES (SUMP STRUCTURE/CULVETS) TO HELP WITH WATER MANAGEMENT DURING DREDGING.

7. BOTTOM OF DRYING PADS WILL BE FILLED WITH 4" ASPHALT GRINDINGS LAYEF SLOPED DOWN FOR DRAINAGE TO SOUTH TO ALLOW COLLECTION OF WATER FOR PUMPING/DEWATERING.

DISPOSAL FACILITY STATISTICS

STAGE 1 SEDIMENT:	266,206 CY
STAGE 2 SEDIMENT:	220,488 CY
STAGE 3 SEDIMENT:	95,250 CY
BERM CLEAN FILL (STAGE 1) BENEFICIAL USE MATERIAL:	51,724 CY
BERM CLEAN FILL (STAGE 2) BENEFICIAL USE MATERIAL:	60,225 CY
CAP CLEAN FILL BENEFICIAL USE:	45,752 CY
BERM HEIGHT (STAGE 1 & 2)	11 FT
FOOTPRINT OF CDF	18 AC
FOOTPRINT OF DRYING PAD	15.5 AC
DITCH A	2,000 FT
DITCH B	1,600 FT
PVC PIPE	50 FT

STAGE I BERMS

Step 1: Berms constructed from clean Calumet Harbor sediment and a waterproof liner. Vegetation planted for erosion control

Step 2: Sediment not suitable for beneficial use would be confined

*Not to scale horizontally

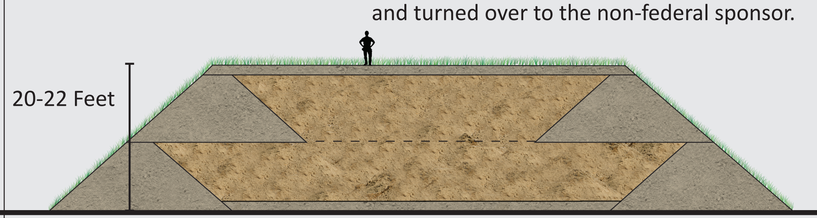
STAGE II BERMS

A second level of berms would increase the facility's capacity if/when needed.

*Not to scale horizontally

CAPPED AND CLOSED

Once full, the facility would be capped, closed, and turned over to the non-federal sponsor.



*Not to scale horizontally

Updated May 2019