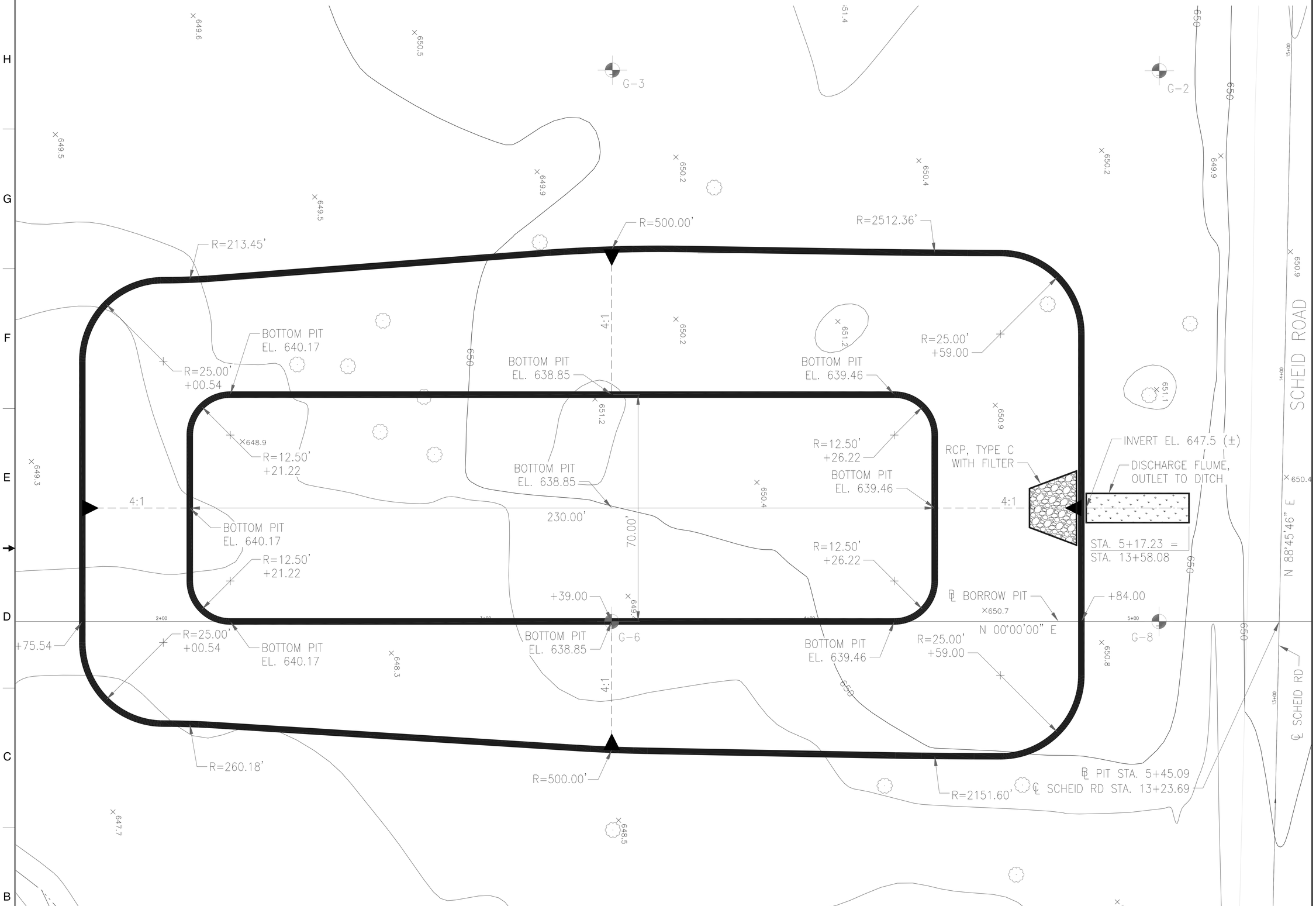

NOTES:

1. FOR SODDED FLUME DETAILS, SEE SHEET TOPO-COF16006GI-101_CE_01.
2. FINE-GRAINED SOILS SUCH AS THOSE ENCOUNTERED AT THE BORROW SITE ARE SUSCEPTIBLE TO VOLUME CHANGE AT VARYING MOISTURE CONTENT AND MUST BE CAREFULLY COMPACTED AT CONTROLLED MOISTURE CONDITIONS, OPTIMALLY SO THE FILL MIXTURE MOISTURE CONTENT IS 17% ± OR LESS.
3. CONTRACTOR SHALL DRY SOIL WHEN NECESSARY TO ACHIEVE OPTIMUM MOISTURE CONDITION. CONTRACTOR SHALL NOT SUBMIT ANY ADDITIONAL COST TO COMPLETE WORK.
4. COMPACTION OF MATERIALS AT AN ABOVE OPTIMUM MOISTURE CONDITION WILL NEGATIVELY AFFECT THE SHEAR STRENGTH OF THE EMBANKMENT MATERIAL AND RENDER IT SUSCEPTIBLE TO OVER-COMPACTION, WHICH CAN RESULT IN SUBGRADE INSTABILITY ("PUMPING"). ANY SOIL OVER COMPACTED WILL BE REQUIRED TO BE REMOVED AND REPLACED TO OPTIMUM COMPACTION AT NO ADDITIONAL COST TO THE GOVERNMENT.
5. POSITIVE DRAINAGE MUST BE MAINTAINED DURING EMBANKMENT CONSTRUCTION SO AS NOT TO ALLOW COMPACTED AREAS TO POND AND BECOME SATURATED OR THEY WILL BREAK DOWN UNDER CONSTRUCTION TRAFFIC.
6. HIGH MOISTURE CONTENT "FAT" CLAY IS INTERMITTENTLY PRESENT THROUGHOUT THE SITE. THE CONTRACTOR SHALL NOT USE THIS SOIL FOR ENGINEERING BACKFILL. THE CONTRACTOR SHALL SPREAD THIS MATERIAL ADJACENT TO THE SITE, TOPSOIL AND SEED.
7. THE TOPSOIL IDENTIFIED AT EACH BORING LOCATION SHALL NOT BE UTILIZED AS BORROW MATERIAL. IT MAY BE SEGREGATED FOR USE AS THE UPPER COVERING OF AREAS TO BE LANDSCAPED AFTER CONDITIONED TO MEET TOPSOIL SPECIFICATIONS.
8. THE PIT SHOWN IS THE APPROXIMATE SIZE REQUIRED TO USE AS A BORROW PIT. THE CONTRACTOR SHALL ADJUST THE LENGTH AND WIDTH OF THE PIT AS NECESSARY AND APPROVED BY COR TO ACCOUNT FOR THE AMOUNT OF ENGINEERED FILL NEEDED TO CONSTRUCT THE MAIN GATE PROJECT.

SCALE: 0 10' 5' 20'

CHG	NUM	DESCRIPTION	APP/DATE

REVISIONS

LAST APPROVED EDMS REVISION	TECH LEAD: N. NNNNNNNNNN	FAC-SYS MGR: N. NNNNNNNNNN	REV DATE: MM/DD/YYYY

CAD DRAWING - DO NOT REVISE MANUALLY

REGISTRATION STAMP

FD BUILDING SOLUTIONS FOR RESEARCH

SYSTEM ID	FACILITY ID	CONFIG CTRL
TOPO	XXXX	GMS

DR: DES.
D.ENG.
CONTRACTOR: BARR & PREVOST
CONTRACT NO: NNC09BA13B
TASK ORDER: NNC13TA32T
DRAWN: RJS DESIGNER: RJS CHECKED: JEP
APPROVED APPROVAL DATE
PROJ. MGR.: M. REBHOLZ
TECH LEAD/BR CH: X. XXXXXXXXXX
TAC/SYS MGR.: X. XXXXXXXXXX
DIV CHIEF: X. XXXXXXXXXX
RELEASE STATUS:

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN H. GLENN RESEARCH CENTER
LEWIS FIELD
CLEVELAND, OHIO

NASA GRC, MAIN GATE FACILITY
FY13 BORROW PIT

SITE PLAN

SIZE	BLDG/SYS	PROJECT ID	DISCP	TYP SEQ
CE	TOPO -	COF16006 -	C	101

AREA: PLUM BROOK STATION SHEET 01 OF 01
UNITS: ENGLISH SOFTWARE: AUTOCAD 2012 REVISION
SCALE: 1" = 10' OFFICIAL DATE: 01/11/2013

TOPO-COF16006C-101_CE_01.dwg

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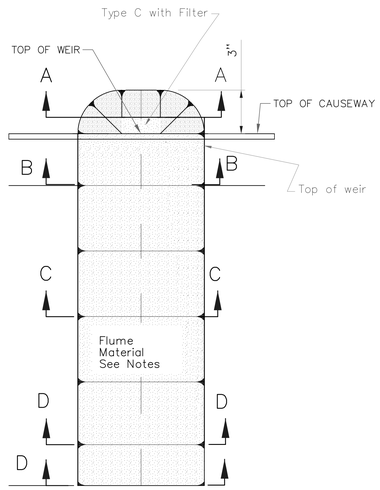
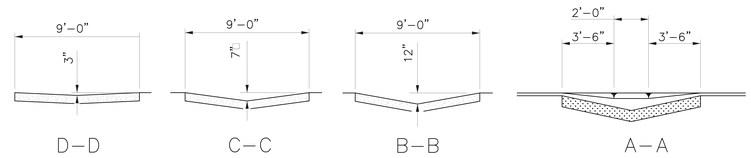
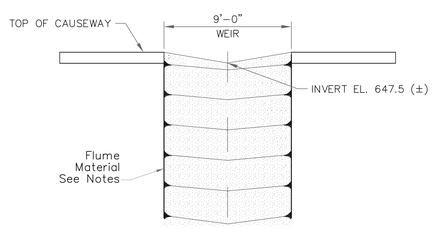


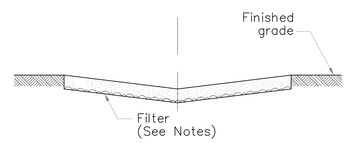
PLAN VIEW



CROSS SECTIONS



ELEVATION VIEW



FLUME INSTALLATION DETAIL

NOTES

Flume material:
Provide Item 601 Tied Concrete Block Mat, Type 2 on Filter Fabric.

Start Tied Concrete Block Mat at the top of weir. Place Type C RCP with filter fabric at top of weir.

For similar details, see ODOT Standard Construction Drawing DM-4.1.

CHG	NUM	DESCRIPTION	APP/DATE

REVISIONS

LAST APPROVED EDMS REVISION	TECH LEAD: N. NNNNNNNNNN	FAC-SYS MGR: N. NNNNNNNNNN	REV DATE: MM/DD/YYYY

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CLEVELAND, OHIO

NASA GRC, MAIN GATE FACILITY
FY13 BORROW PIT

MISCELLANEOUS DETAILS

SIZE	BLDG/SYS	PROJECT ID	DISCP	TYP SEQ
CE	TOPO -	COF16006	- GI	101

AREA: PLUM BROOK STATION — SHEET 01 OF 01
UNITS: ENGLISH — SOFTWARE: AUTOCAD 2012 — REVISION
SCALE: NONE — OFFICIAL DATE: 01/11/2013

REDEMPTION STAMP

FD BUILDING SOLUTIONS FOR RESEARCH

SYSTEM ID	FACILITY ID	CONFIG CTRL.
TOPO	XXXX	GMS

DR. — DES.
D.ENG.
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