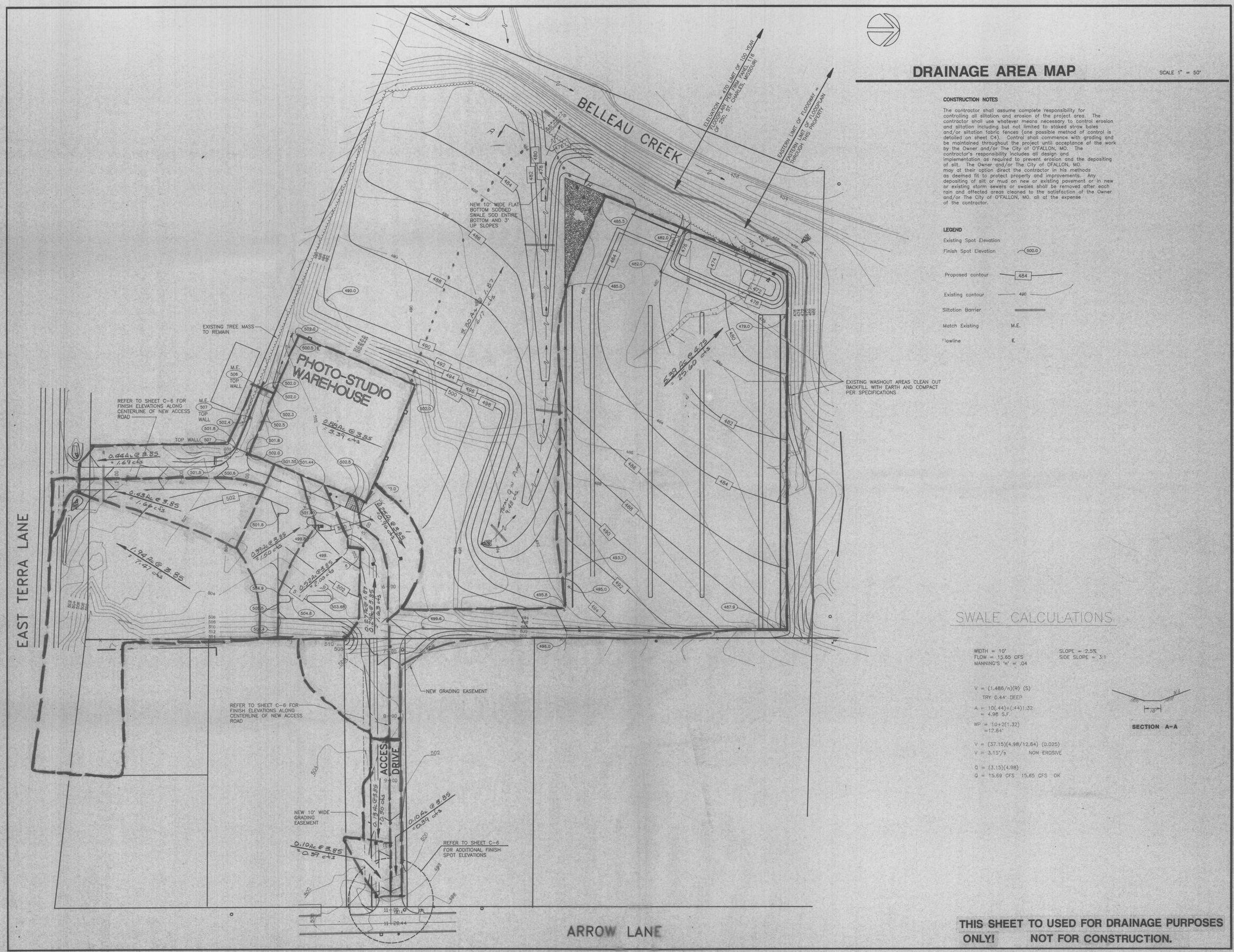

DRAINAGE AREA MAP

SCALE 1" = 50'

CONSTRUCTION NOTES

The contractor shall assume complete responsibility for controlling all siltation and erosion of the project area. The contractor shall use whatever means necessary to control erosion and siltation including but not limited to staked straw bales and/or siltation fabric fences (one possible method of control is detailed on sheet C4). Control shall commence with grading and be maintained throughout the project until acceptance of the work by the Owner and/or The City of O'FALLON, MO. The contractor's responsibility includes all design and implementation as required to prevent erosion and the depositing of silt. The Owner and/or The City of OFALLON, MO. may at their option direct the contractor in his methods as deemed fit to protect property and improvements. Any depositing of silt or mud on new or existing pavement or in new or existing storm sewers or swales shall be removed after each rain and affected areas cleaned to the satisfaction of the Owner and/or The City of O'FALLON, MO. all at the expense of the contractor.

LEGEND

Existing Spot Elevation	
Finish Spot Elevation	500.0
Proposed contour	484
Existing contour	490
Siltation Barrier	
Match Existing	M.E.
Flowline	E.

SWALE CALCULATIONS

WIDTH = 10'
FLOW = 15.65 CFS
MANNING'S 'n' = .04

SLOPE = 2.5%
SIDE SLOPE = 3:1

V = (1.486/n)(R) (S)
TRY 0.44' DEEP

A = 10(.44)+(.44)1.32
= 4.98 S.F.

WP = 10+2(1.32)
=12.64'

V = (37.15)(4.98/12.64) (0.025)
V = 3.15'/s NON EROSIVE

Q = (3.15)(4.98)
Q = 15.69 CFS 15.65 CFS OK

SECTION A-A

THIS SHEET TO USED FOR DRAINAGE PURPOSES ONLY! NOT FOR CONSTRUCTION.

REVISIONS

NO	DATE	DESCRIPTIONS

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TITLE:

DATE:

PROJECT NO.:

SHEET: DA-1