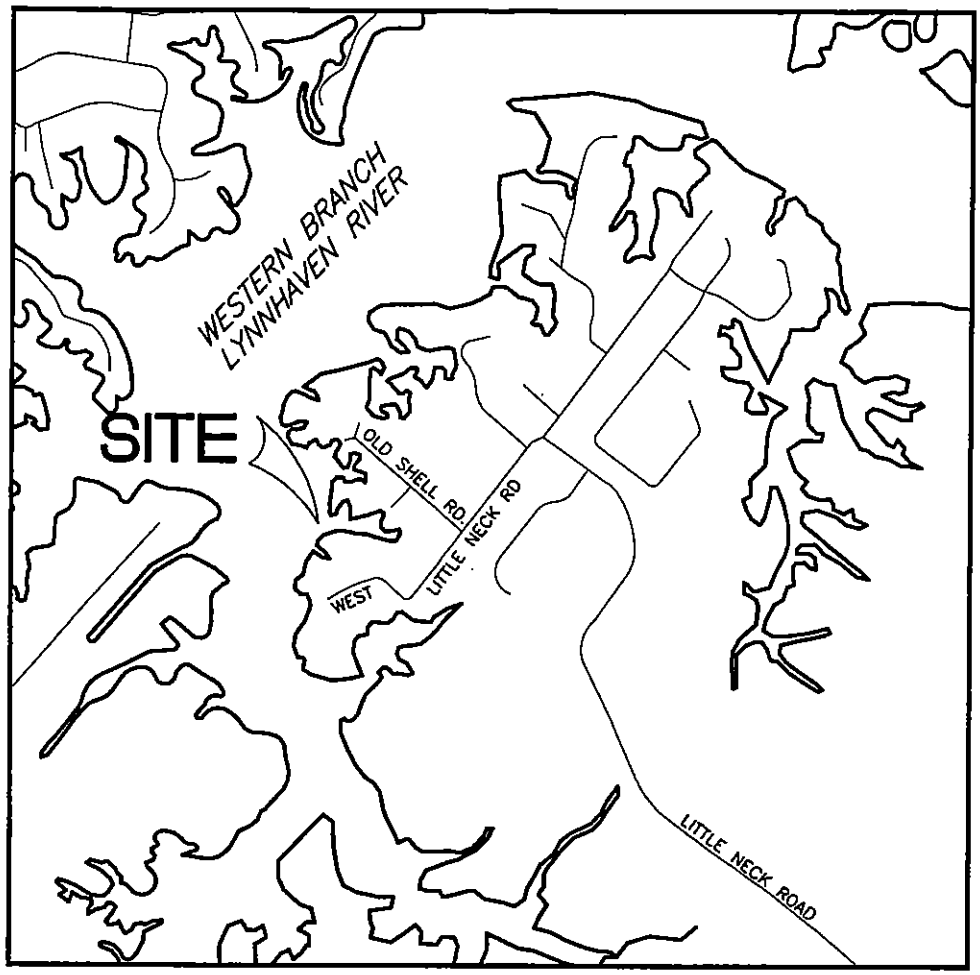
Name: CAPE HENRY
Date: 8/11/2004
Scale: 1 inch equals 2000 feet

Location: 036° 52' 50.13" N 076° 06' 19.93" W
Caption: Community Dredge Project
W.B. Lynnhaven River

Copyright (C) 1997, Maptech, Inc.



U. S. ARMY CORPS OF ENGINEERS
RECEIVED
JUL 30 2004
BY _____

RECEIVED
JUL 26 2004
MARINE RESOURCES COMMISSION
By _____

COMMONWEALTH OF VIRGINIA
TOM B. LANGLEY
No. 11138
PROFESSIONAL ENGINEER
7/2/04

SEQUENCE OF CONSTRUCTION:

1.	INSTALL EROSION AND SEDIMENT CONTROL	0.2 WEEK
2.	INSTALL BULKHEAD PER MFR. SPEC.	4 WEEKS
3.	MECHANICALLY DREDGE CHANNEL	8 WEEKS
4.	TRUCKLOAD MATERIAL OFF SITE IN LEAK-PROOF TRUCKS	8 WEEKS
5.	INSTALL PIERS AND PILES	4 WEEKS

PURPOSE : DEEP WATER ACCESS

DATUM : MLW = 0.0

ADJACENT PROPERTY OWNERS
① KOPPENS
② CLARK

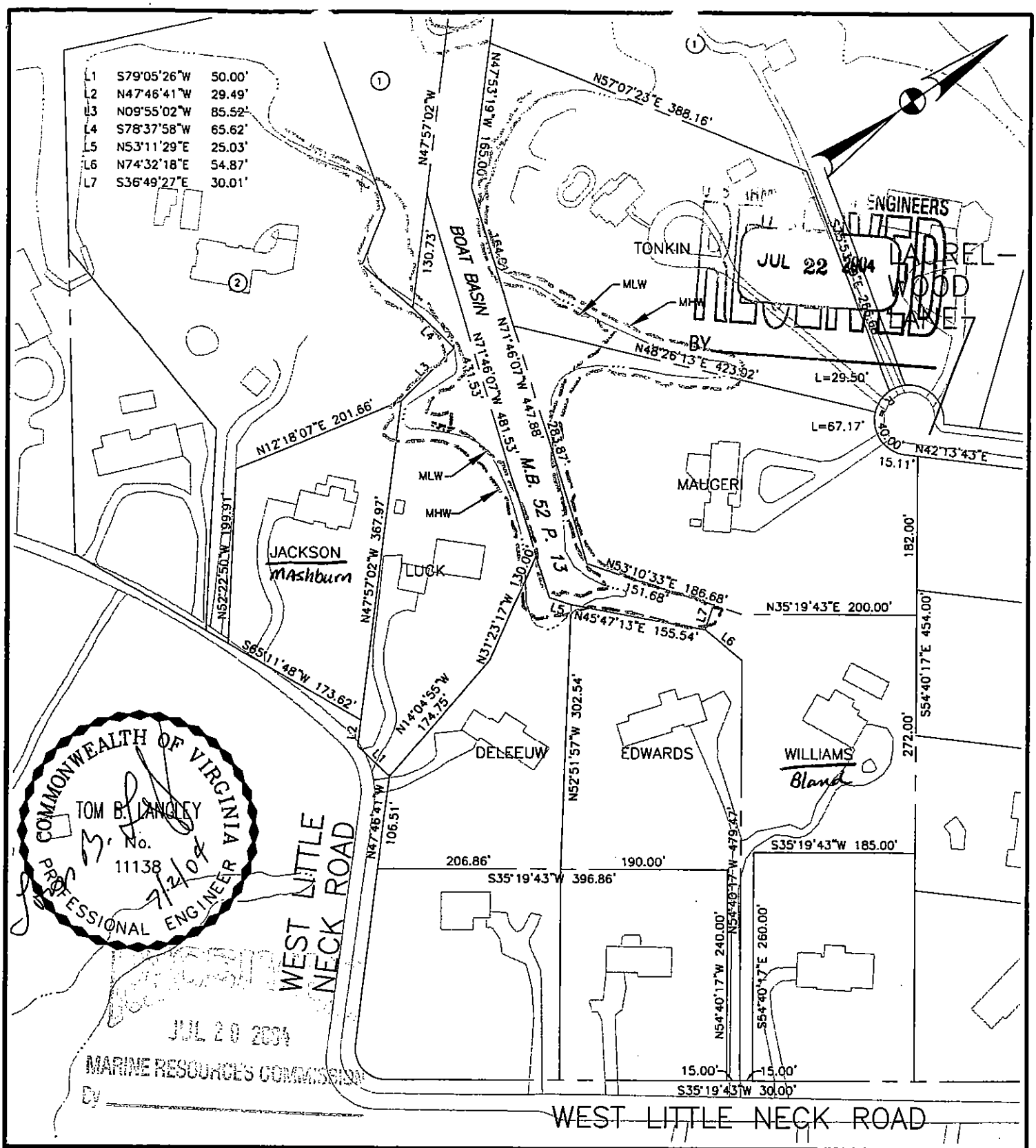
PERMIT APPLICATION

VICINITY MAP

Langley and McDonald, Inc
Engineers Planners Surveyors
309 LYNNHAVEN PARKWAY
VIRGINIA BEACH, VIRGINIA 23452
757-463-4306 (FAX) 757-463-3563

IN : LYNNHAVEN RIVER
AT : LAURELWOOD LA. - W.LITTLE NECK RD.
CITY/COUNTY : VIRGINIA BEACH

APPLICATION BY :
CARTER LUCK, ETALS
DATE: MAY 28, 2004
SCALE : 1" = 2000
SHT. 10F 10



PURPOSE : DEEP WATER ACCESS

DATUM : MLW = 0.0

ADJACENT PROPERTY OWNERS

① KOPPENS
② CLARK

PERMIT APPLICATION

BOUNDARY INFORMATION

Langley and McDonald, Inc
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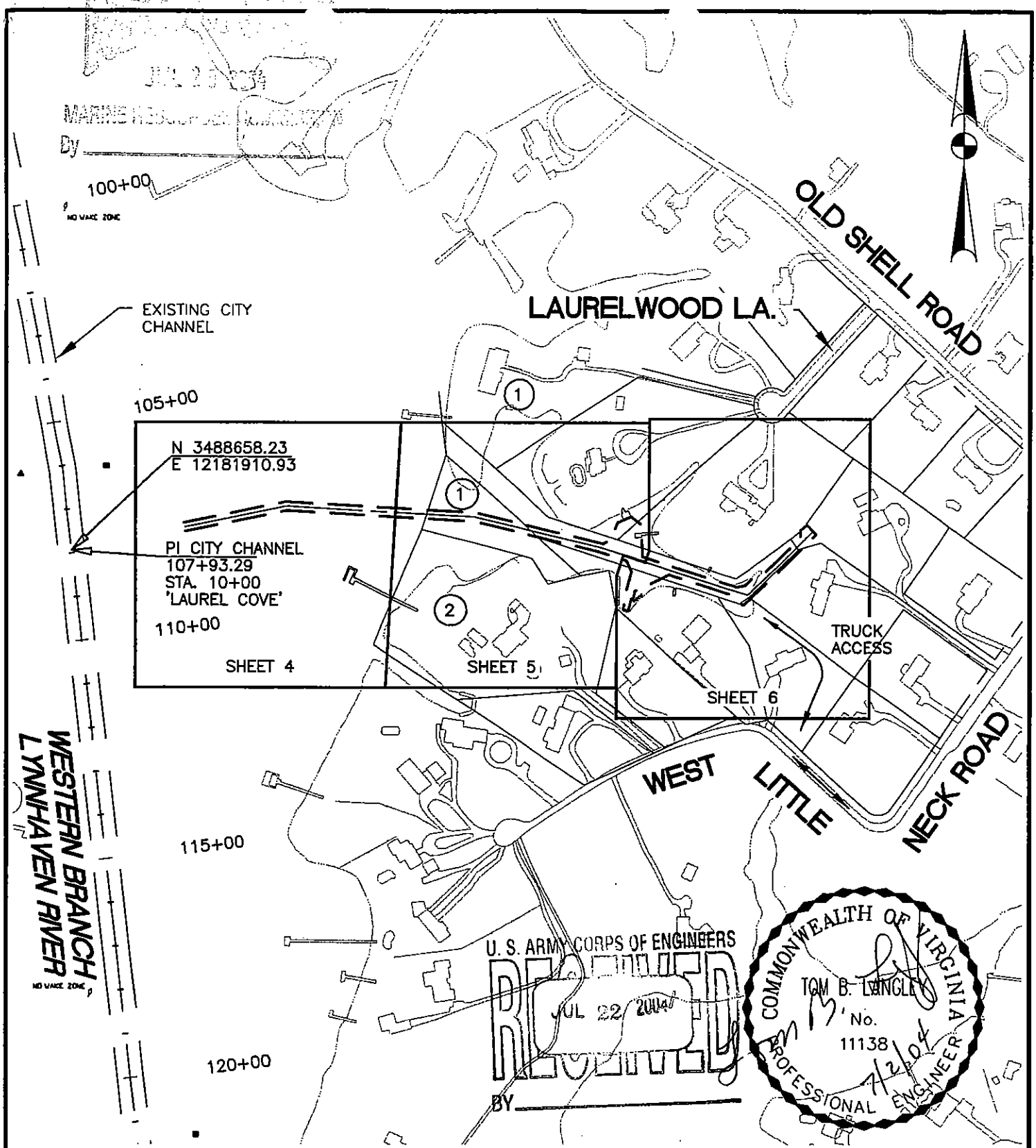
CITY/COUNTY : VIRGINIA BEACH

APPLICATION BY :
CARTER LUCK, ETALS
DATE: MAY 28, 2004
SCALE : 1" = 150'
SHT. 2 OF 10



PURPOSE : DEEP WATER ACCESS

DATUM : MLW = 0.0

ADJACENT PROPERTY OWNERS

① KOPPENS
② CLARK

PERMIT APPLICATION

LOCATION MAP

Langley and McDonald, Inc
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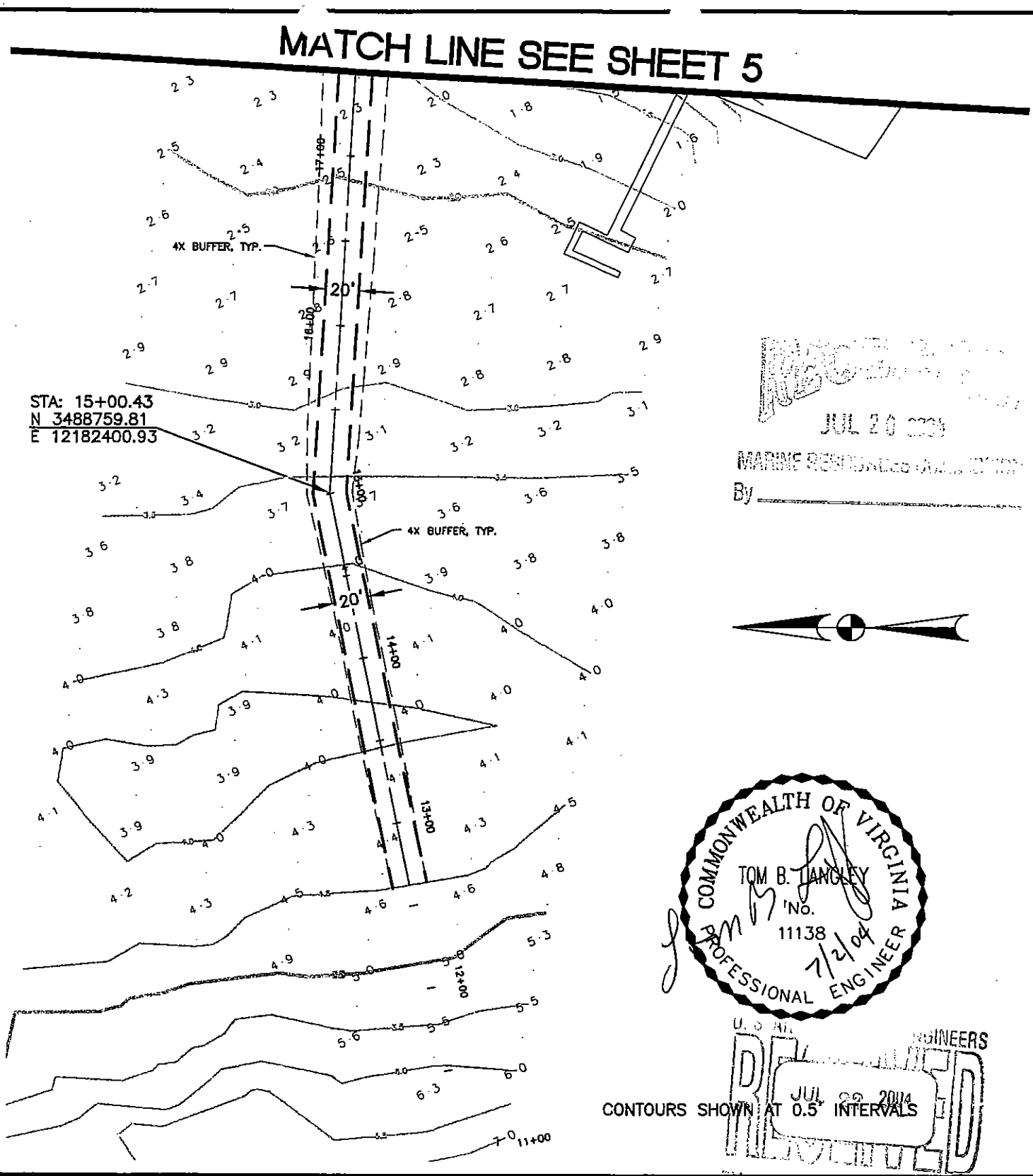
CITY/COUNTY : VIRGINIA BEACH

APPLICATION BY :
CARTER LUCK, ETALS
DATE: MAY 28, 2004
SCALE : 1" = 300'
SHT. 3 OF 10



PURPOSE : DEEP WATER ACCESS

DATUM : MLW = 0.0

ADJACENT PROPERTY OWNERS

① KOPPENS
② CLARK

PERMIT APPLICATION

PLAN VIEW

Langley and McDonald, Inc
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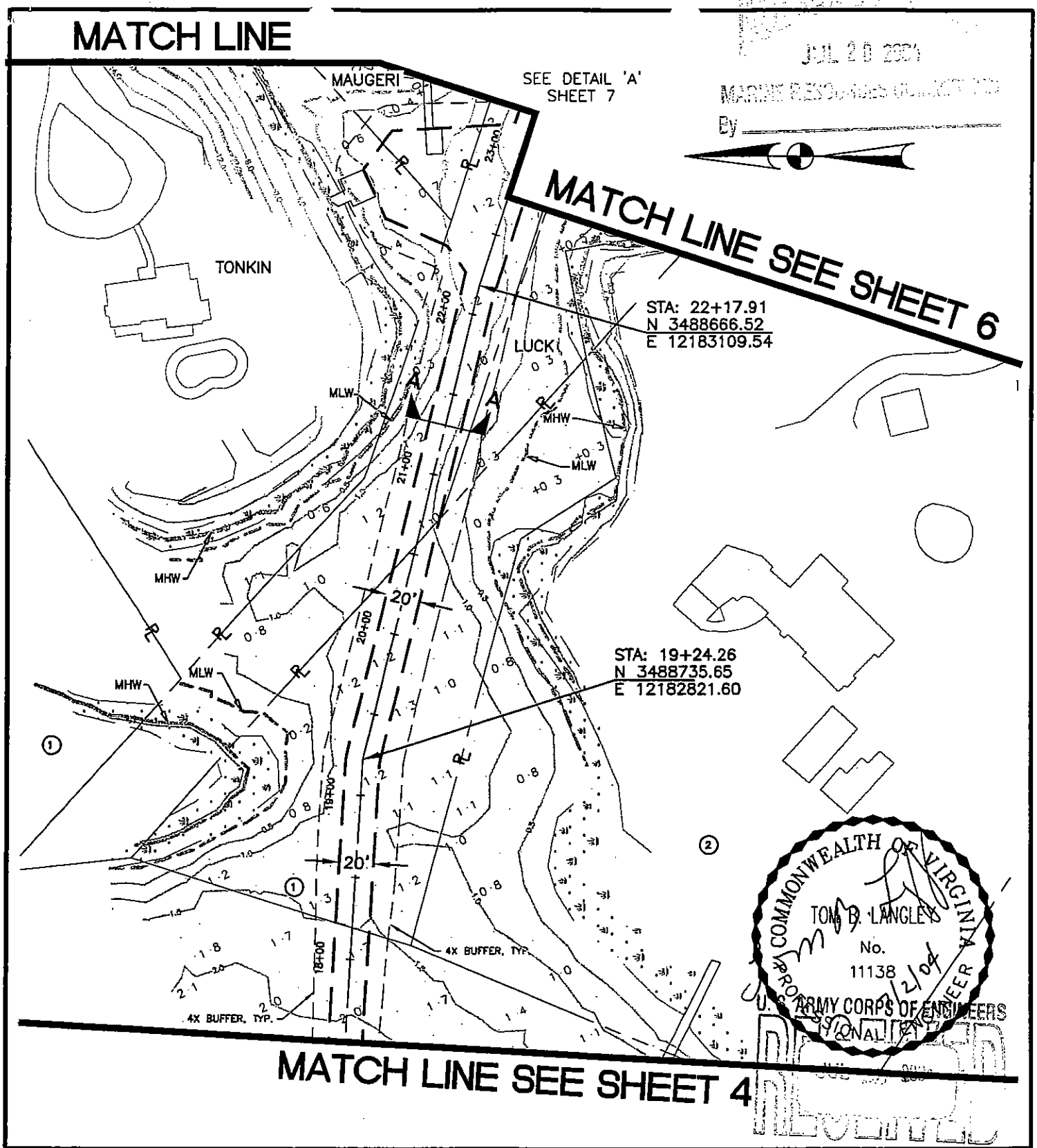
AT : LAURELWOOD LA. - W.LITTLE NECK RD.
CITY/COUNTY : VIRGINIA BEACH

APPLICATION BY :
CARTER LUCK, ETALS
DATE: MAY 28, 2004
SCALE : 1" = 80'



JUL 20 2004
MARINE RESOURCES COMMISSION
By

COMMONWEALTH OF VIRGINIA
TOM B. LANGLEY
No. 11138
PROFESSIONAL ENGINEER
7/2/04

U.S. ARMY CORPS OF ENGINEERS
RECEIVED
BY

PURPOSE : DEEP WATER ACCESS

DATUM : MLW = 0.0

ADJACENT PROPERTY OWNERS

① KOPPENS
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PERMIT APPLICATION

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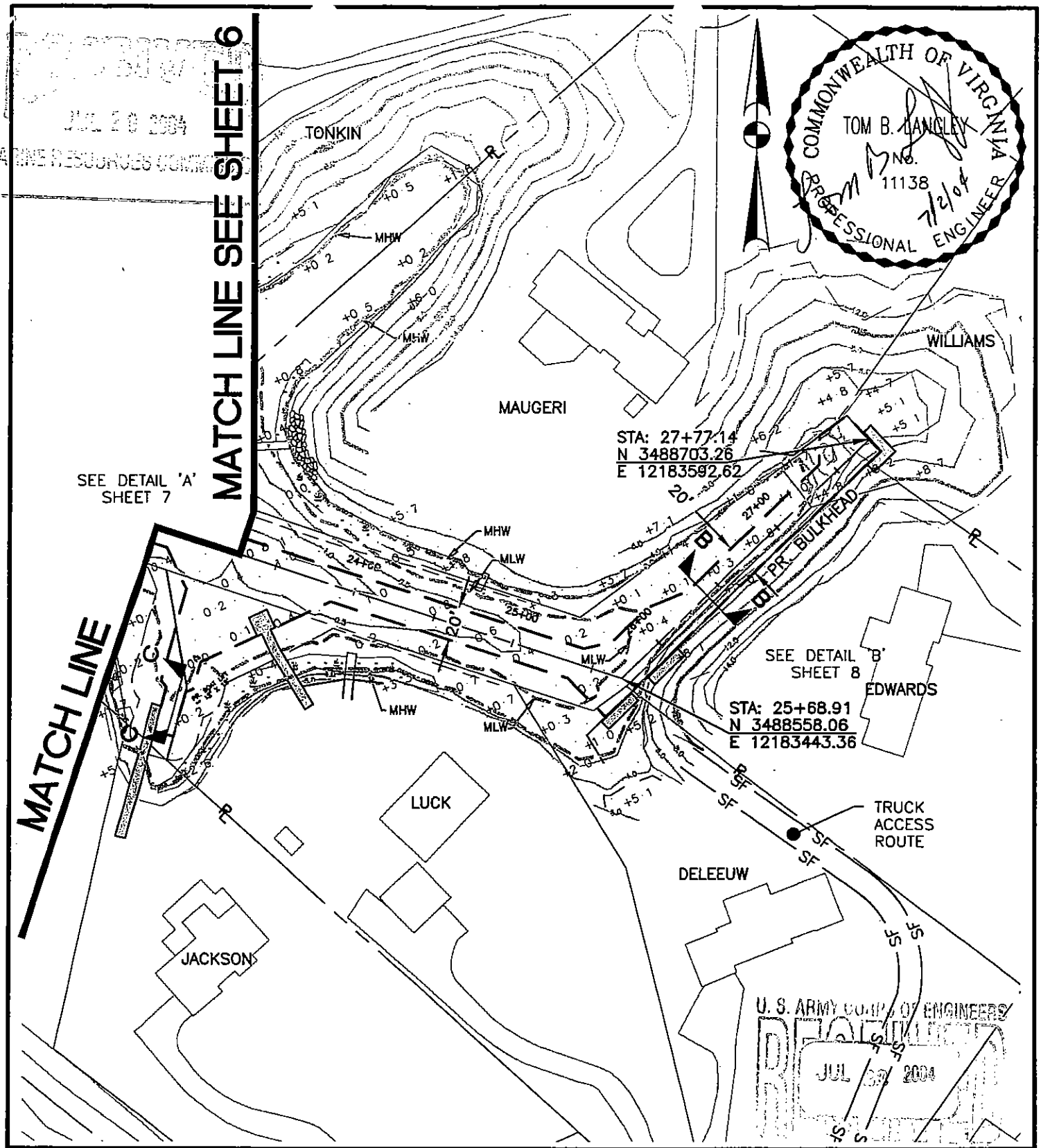
CITY/COUNTY : VIRGINIA BEACH

APPLICATION BY :
CARTER LUCK, ETALS
DATE: MAY 28, 2004
SCALE : 1" = 80'
SHT. 5 OF 10



PURPOSE : DEEP WATER ACCESS

DATUM : MLW = 0.0

ADJACENT PROPERTY OWNERS

① KOPPENS
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PERMIT APPLICATION

PLAN VIEW

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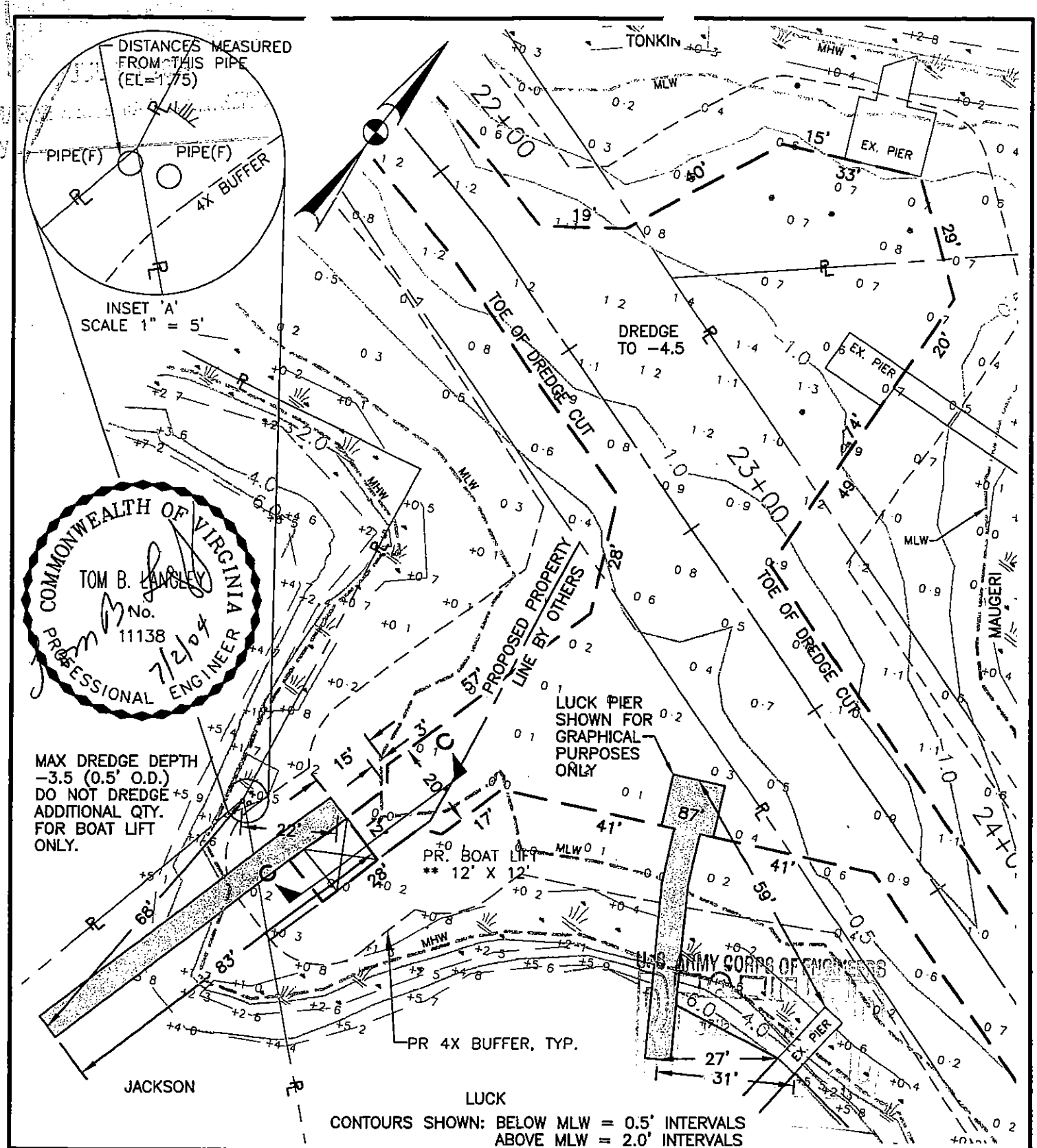
CITY/COUNTY : VIRGINIA BEACH

APPLICATION BY :
CARTER LUCK, ETALS
DATE: MAY 28, 2004
SCALE : 1" = 80'
SHT. 6 OF 10



CONTOURS SHOWN: BELOW MLW = 0.5' INTERVALS
ABOVE MLW = 2.0' INTERVALS

PURPOSE : DEEP WATER ACCESS

DATUM : MLW = 0.0

ADJACENT PROPERTY OWNERS

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PERMIT APPLICATION

DETAIL 'A'

Langley and McDonald, Inc
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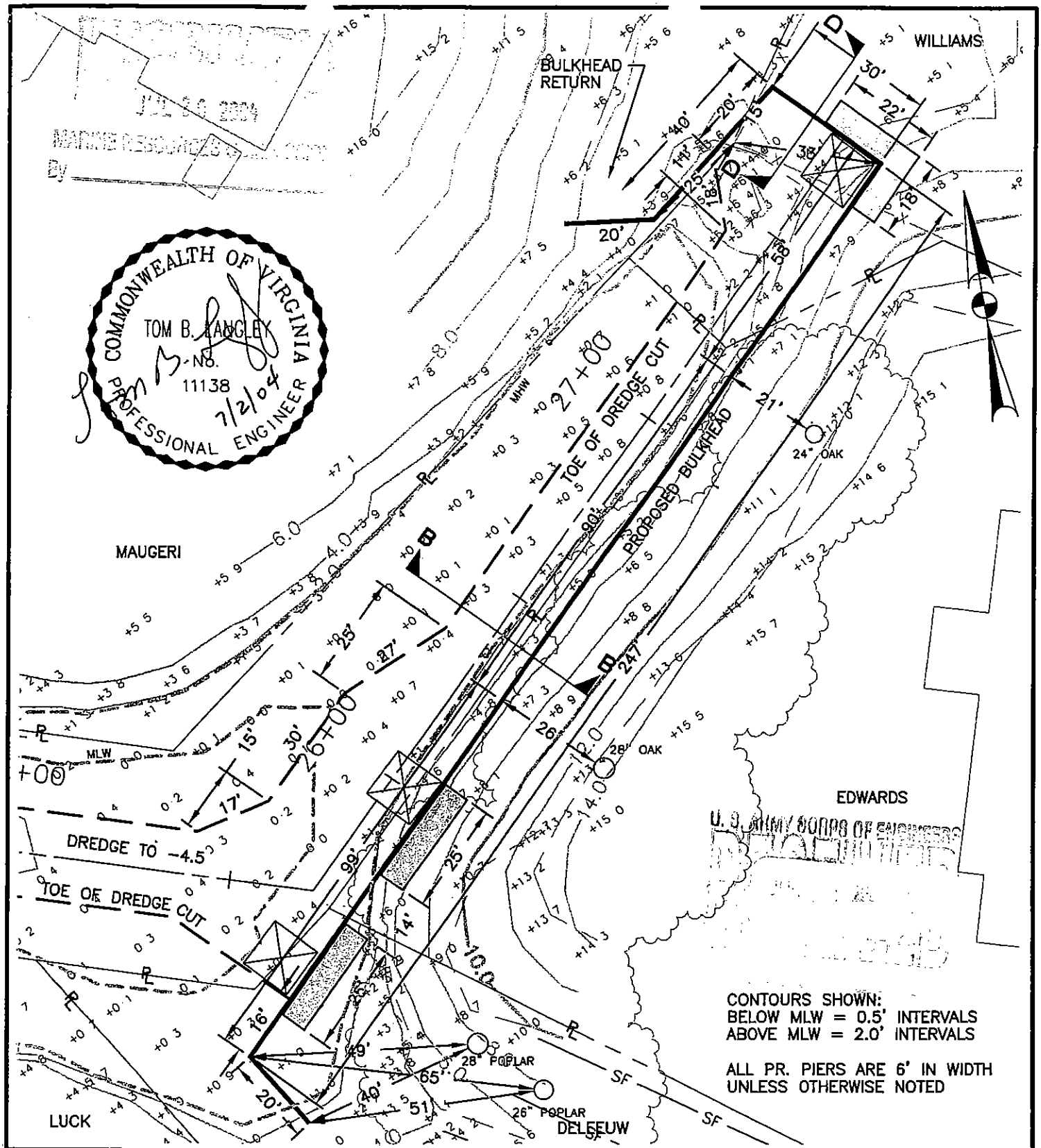
VIRGINIA BEACH, VIRGINIA 23452
757-463-4306 (FAX) 757-463-3563

IN : LYNNHAVEN RIVER
AT : LAURELWOOD LA. - W.LITTLE NECK RD.
CITY/COUNTY : VIRGINIA BEACH

APPLICATION BY :
CARTER LUCK, ETALS
DATE: MAY 28, 2004
SCALE : 1" = 30'
SHT. 7 OF 10



PURPOSE : DEEP WATER ACCESS

DATUM : MLW = 0.0'

ADJACENT PROPERTY OWNERS

① KOPPENS
② CLARK

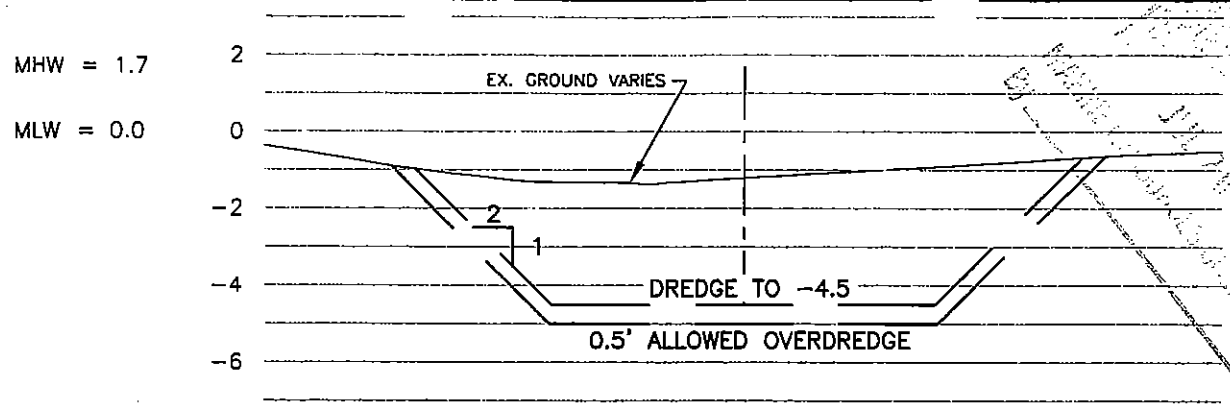
PERMIT APPLICATION

DETAIL 'B'

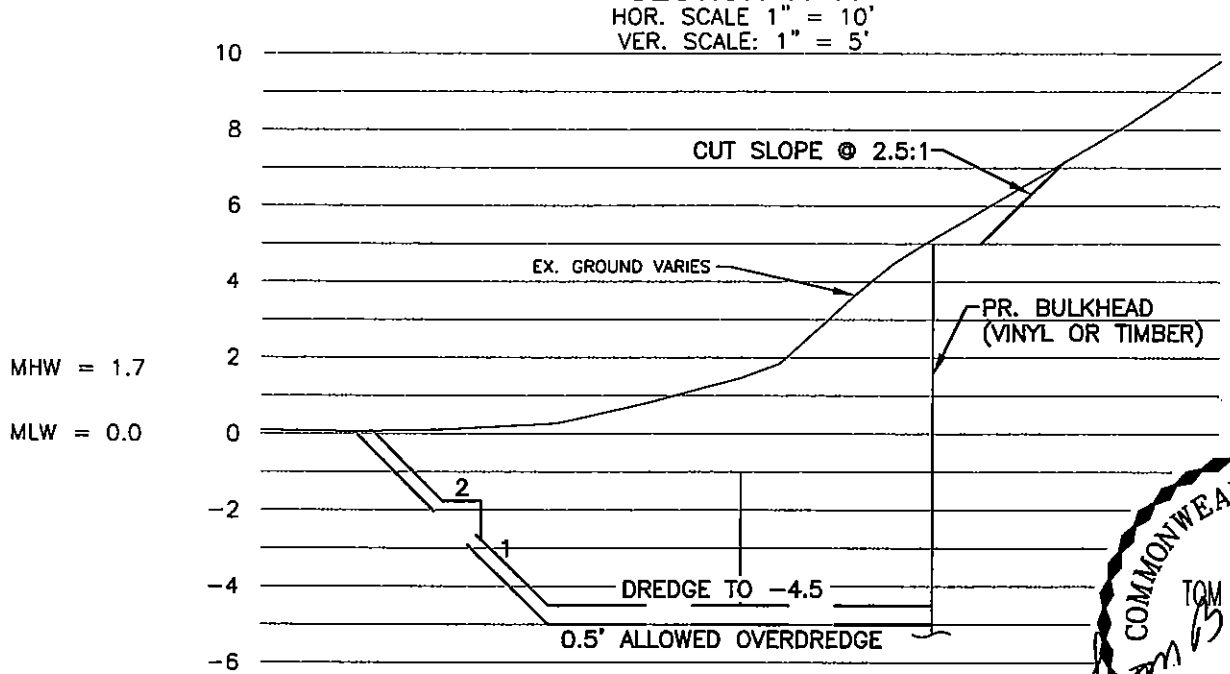
Langley and McDonald, Inc
Engineers Planners Surveyors
309 LYNNHAVEN PARKWAY
VIRGINIA BEACH, VIRGINIA 23452
757-463-4306 (FAX) 757-463-3563

IN : LYNNHAVEN RIVER
AT : LAUREL WOOD LA. - W.LITTLE NECK RD.
CITY/COUNTY : VIRGINIA BEACH

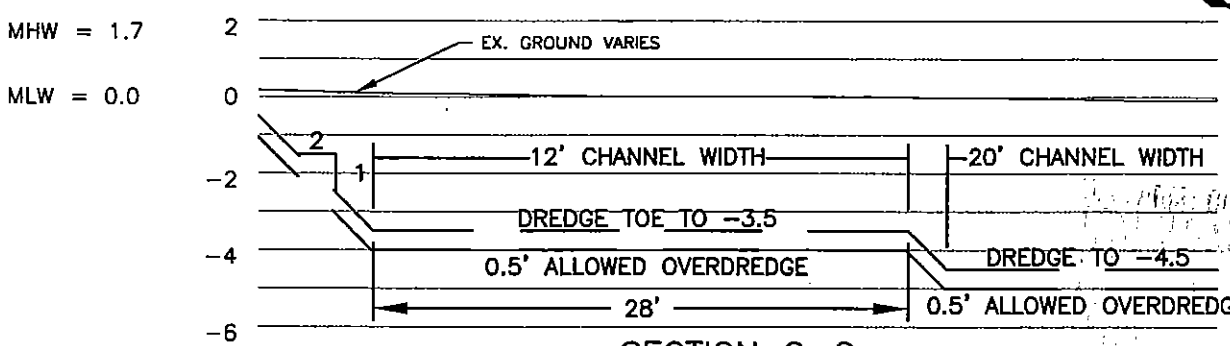
APPLICATION BY :
CARTER LUCK, ETALS
DATE: MAY 28, 2004
SCALE : 1" = 30'
SHT. 8 OF 10



SECTION A–A
HOR. SCALE 1" = 10'
VER. SCALE: 1" = 5'



SECTION B–B
HOR. SCALE 1" = 10'
VER. SCALE: 1" = 5'



SECTION C–C
HOR. SCALE 1" = 10'
VER. SCALE: 1" = 5'

COMMONWEALTH OF VIRGINIA
TOM B. LANGLEY
No. 11138
PROFESSIONAL ENGINEER
7/2/04

PURPOSE : DEEP WATER ACCESS

DATUM : MLW = 0.0

ADJACENT PROPERTY OWNERS
① KOPPENS
② CLARK

PERMIT APPLICATION

SECTION VIEW

Langley and McDonald, Inc
Engineers Planners Surveyors
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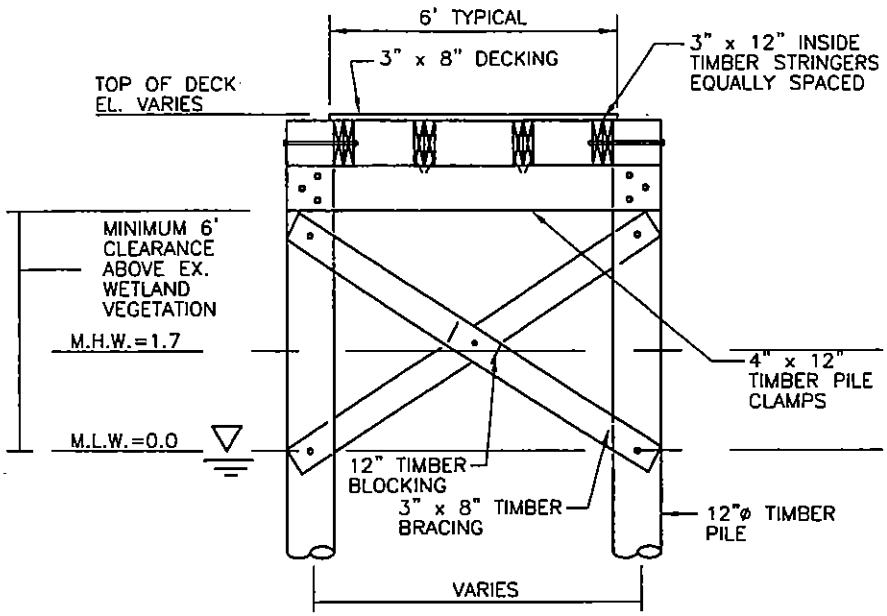
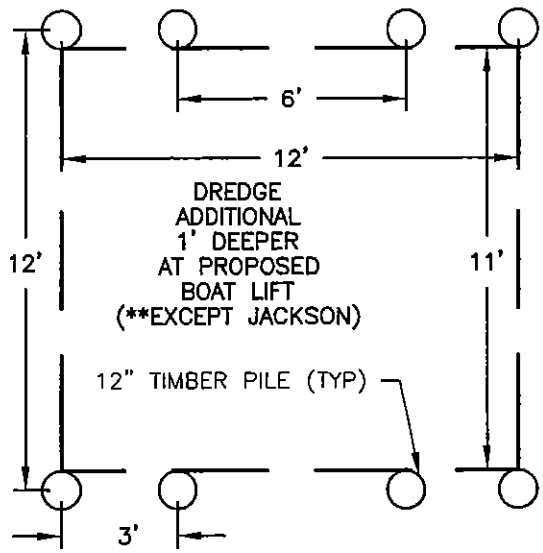
CITY/COUNTY : VIRGINIA BEACH

APPLICATION BY :
CARTER LUCK, ETALS
DATE: MAY 28, 2004
SCALE : 1" = AS NOTED
SHT. 9 OF 10



TYPICAL – FIXED PIER

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

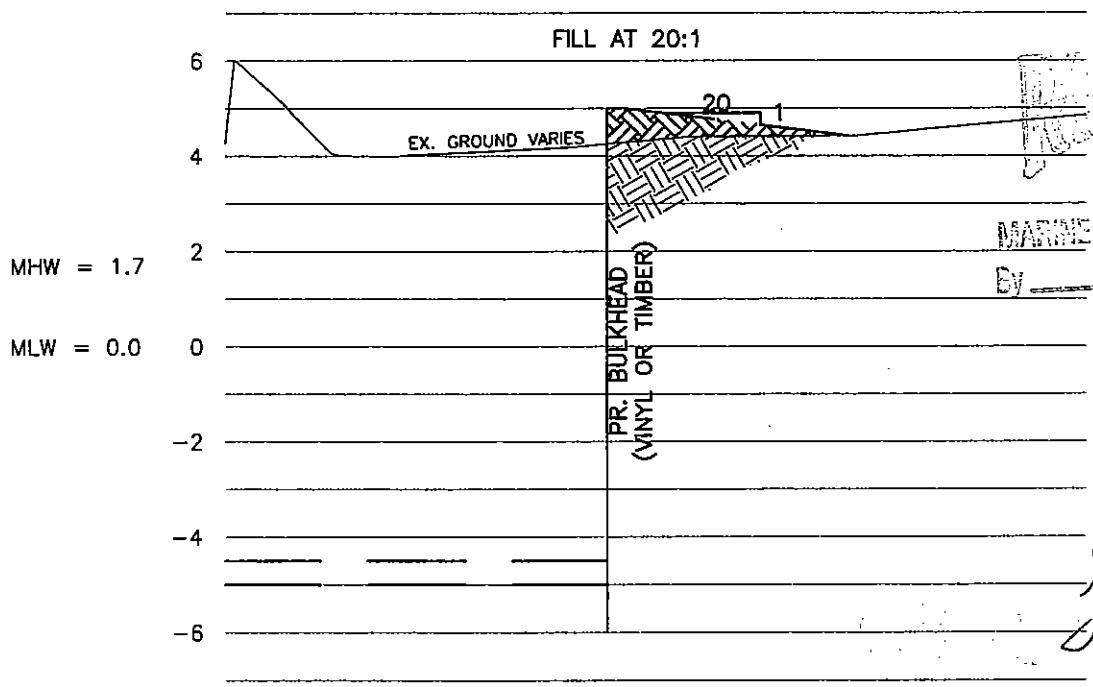


TYPICAL – BOAT LIFT

SCALE : 1" = 5'

ALL TIMBER MATERIALS SHALL HAVE 2.5# CCA TREATMENT (MLP-80)
ALL METAL SHALL BE HOT DIPPED GALVANIZED (ASTM: A153)

BOAT LIFT TO BE INSTALLED PER MFR. SPECIFCATIONS



TYPICAL BULKHEAD SECTION D–D

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

RECEIVED
JUL 20 2004
MARINE RESOURCES COMMISSION
By

COMMONWEALTH OF VIRGINIA
TOM B. LANGLEY
No. 11138
PROFESSIONAL ENGINEER
7/2/04

PURPOSE : DEEP WATER ACCESS

DATUM : MLW = 0.0

ADJACENT PROPERTY OWNERS
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PERMIT APPLICATION

SECTION VIEW

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CITY/COUNTY : VIRGINIA BEACH

APPLICATION BY :
CARTER LUCK, ETALS
DATE: MAY 28, 2004
SCALE : 1" = AS NOTED
SHT. 10 OF 10