



City of Boyne City

Founded 1856

319 N. Lake Street

Boyne City, Michigan 49712
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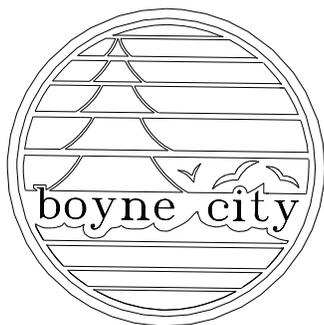
BOYNE CITY
CITY COMMISSION
MARINA WORK SESSION
Boyne City Hall
319 North Lake Street
Tuesday, April 24, 2018 at 1:30 p.m.
(To follow regularly scheduled City Commission Meeting)

1. CALL TO ORDER AND PLEDGE OF ALLEGIANCE
2. ROLL CALL
3. Review of Marina Improvements
4. ADJOURNMENT



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agenda packets & minutes for each board

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*CITY OF BOYNE CITY**MEMO*

To: Michael Cain, City Manager

From: Barb Brooks, Executive Assistant

Date: April 20, 2018

Subject: Marina Work Session

During the budget work session, it was discussed that we might want to consider holding a work session to discuss plans for the marina and review what we have, what we need, what we would like to accomplish, how much it will cost, and how it would be funded.

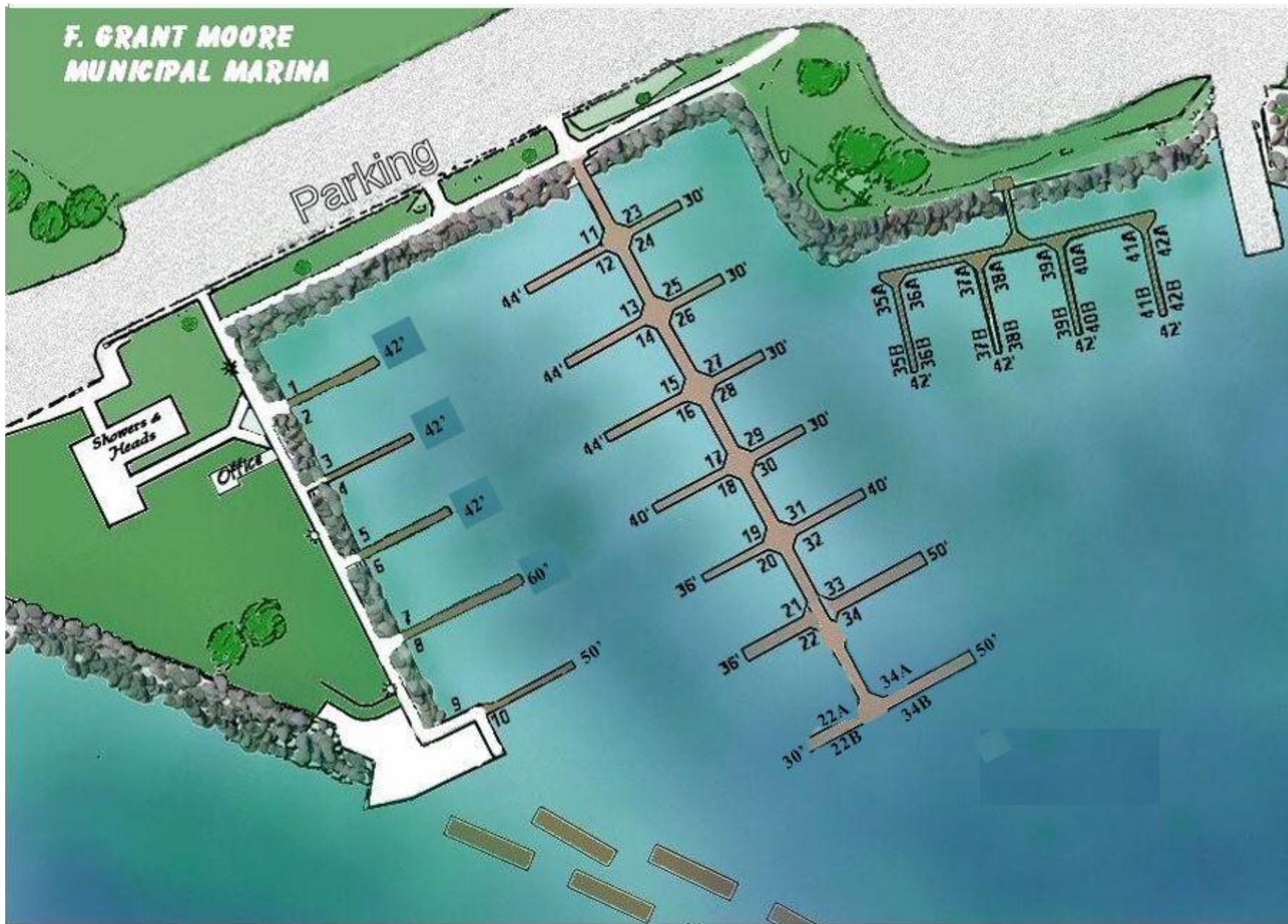
Engineer Dan Dombos from Abonmarche (the City's marina engineering firm) will be here to help answer questions that may come up. While we may not come up with all of our solutions on how we move forward, it will be a good starting point and give the newer commissioners a crash course on how we got to this point.

Our expansion construction permits with the US Army Corps of Engineers (USACE) and Michigan Dept. of Environmental Quality (MDEQ) expire this year and we will have to re-apply to continue any type of expansion in the future. This is the time for us to incorporate any changes we might want to make with the layout. There are some minor changes being discussed between with the engineers that change the interior layout of the slips but doesn't change the footprint of the plan. There have also been some preliminary discussions regarding placing a mooring field in front of the Open Space property that might make more sense than the mooring field originally proposed in our initial permit application.

Attached to this memo is the current layout of the marina, the plan that is currently permitted by the USACE and MDEQ, the purposed new layout (which included color coded sections for project phasing) and a proposed layout and cost estimate for a mooring field in front of the Open Space property.

At the meeting we will also provide additional financial information, demand and economic impact statistics for discussion.

**F. GRANT MOORE
MUNICIPAL MARINA**



RIPIARIAN INTEREST LINE
S83°39'00"W

SCHEDULE OF SLIP CONSTRUCTION – BY PHASE							
SLIP LENGTH	EXISTING	2014 IMPROVEMENTS	PHASE I (DOCK "A")	PHASE II (DOCK "A" AND FIXED)	PHASE III (DOCK "D/E")	PHASE IV (DOCK "A/B/C")	TOTAL
25'	–	–	–	–	8	15	23
30'	8	6	–	3	8	13	30
35'	4	–	–	–	–	–	–
40'	10	–	–	–	17	–	17
45'	13	–	–	–	–	–	–
50'	5	–	–	–	8	4	12
60'	2	–	–	–	5	–	5
TOTAL SLIP COUNT BY PHASE	42	6	–	–	46	30	87
TOTAL BROADSIDE MOORING	–	–	320'	482'	128'	86'	N 87d36'0" E
PUMP OUT	–	–	–	–	–	2	2
SWING MOORING	–	–	–	10	–	–	10

TOTAL SLIP COUNT BY PHASE						
SLIP LENGTH	EXISTING	2014 IMPROVEMENTS	PHASE I (DOCK "A")	PHASE II (DOCK "A" AND FIXED)	PHASE III (DOCK "D/E")	PHASE IV (DOCK "A/B/C")
25'	–	–	–	–	8	23
30'	8	14	14	17	17	30
35'	4	4	4	4	–	–
40'	10	10	10	10	17	17
45'	13	7	7	6	–	–
50'	5	5	5	3	9	12
60'	2	2	2	2	5	5
TOTAL SLIP COUNT BY PHASE	42	42	42	39	45	87
TOTAL BROADSIDE MOORING	–	–	320'	802'	930'	1,084'
PUMP OUT	–	–	–	–	–	2
SWING MOORING	–	–	–	10	10	10

SLIP DIMENSION TABLE			
SLIP LENGTH	FENDER PILE	PIER WIDTH	DOUBLE-LOADED SLIP WIDTH
		PROPOSED	PROPOSED
25'	NO	4'	27'
30'	VARIES	4'	33'
40'	YES	4'	38'
50'	YES	4'	44'
60'	YES	5'	49'
80'	YES	6'	56'

NOTES:
UNLESS OTHERWISE INDICATED, THE DIMENSIONS INDICATED IN THIS TABLE ARE TAKEN FROM THE MICHIGAN DEPARTMENT OF NATURAL RESOURCES (MDNR) PARKS & RECREATION BUREAU HARBOR DEVELOPMENT STANDARD GUIDANCE.
* – DIMENSION RECOMMENDATIONS BASED ON TOBIASSON AND KOLLMAYER, "MARINAS AND SMALL CRAFT HARBORS, SECOND EDITION."

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Engineering
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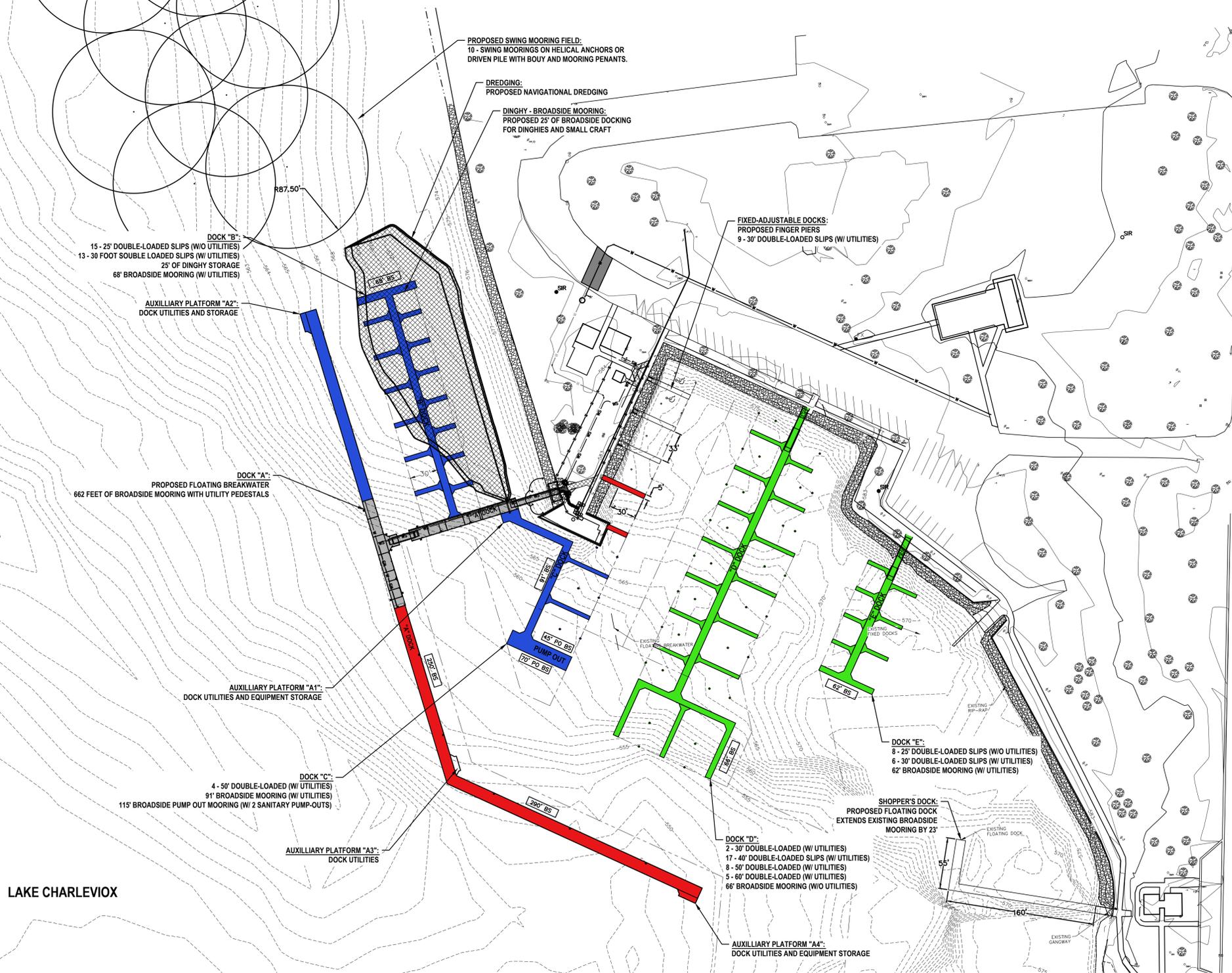
**F. GRANT MOORE
MUNICIPAL MARINA
CITY OF BOYNE CITY, MI**

**MARINA EXPANSION PLAN
OVERALL MARINA LAYOUT**

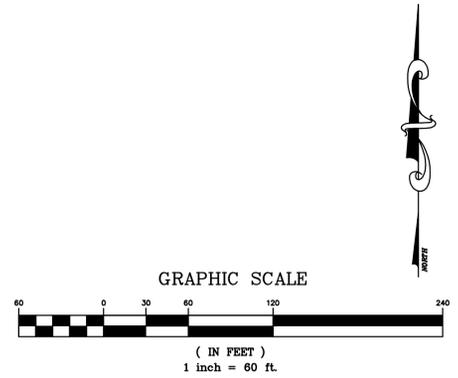
PROJECT:
SHEET TITLE:
DRAWN BY: **DJL/DAD**
DESIGNED BY: **DAD/MCM**
PM REVIEW:
QA/QC REVIEW:
DATE: **04/20/2018**
SEAL:

SIGNATURE:
DATE:

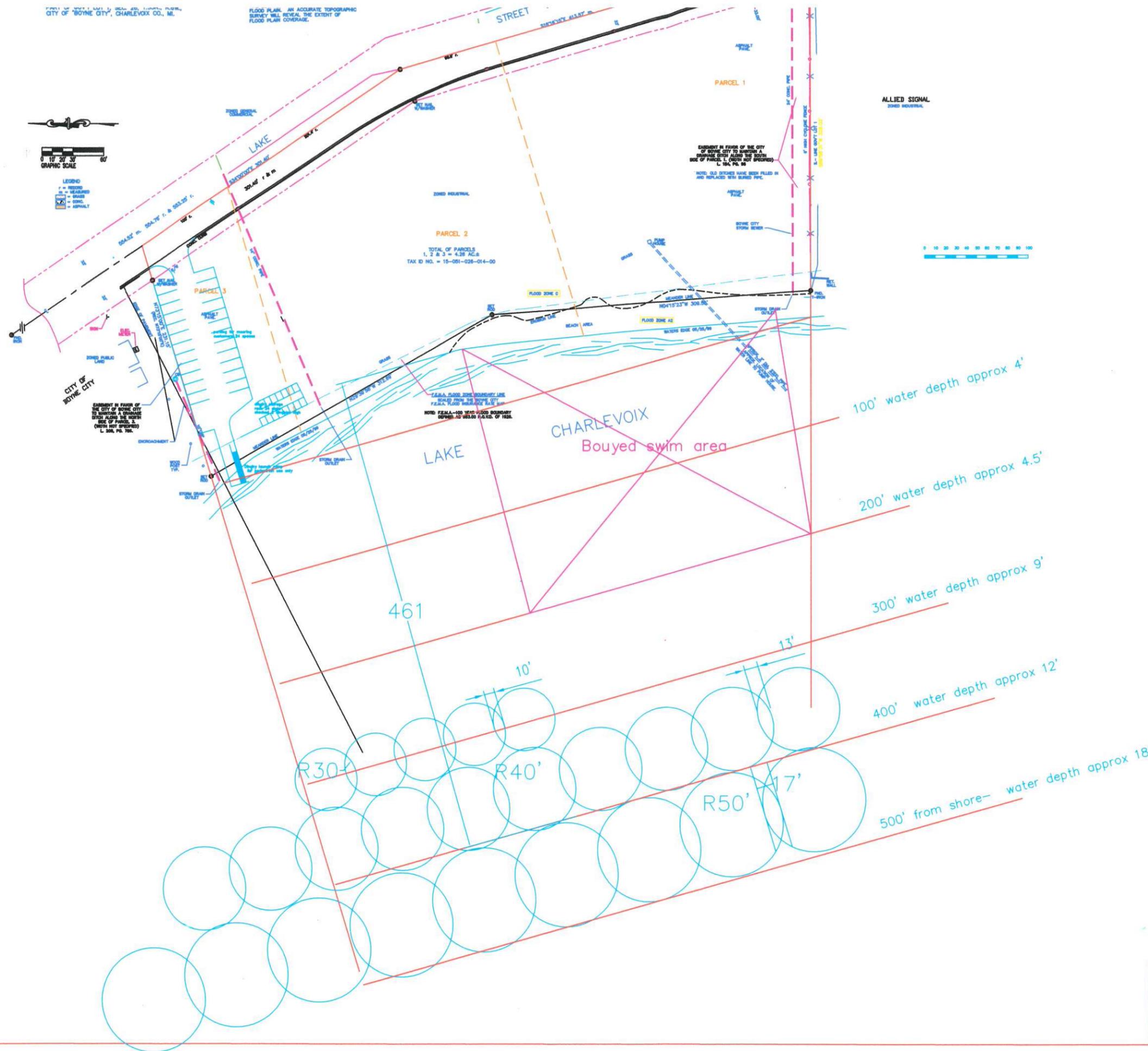
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SCALE:
HORIZ: 1"=60'
VERT: N/A
ACI JOB # **17-0886**
SHEET NO.



**PROPOSED
MARINA IMPROVEMENTS
WITH FUEL DOCK AND
SWING MOORINGS**



LAKE CHARLEVOIX



100' water depth approx 4'
200' water depth approx 4.5'
300' water depth approx 9'
400' water depth approx 12'
500' from shore— water depth approx 18'

Discussion proposal drawing for mooring field offshore of Dow/Grove prop

CITY OF BOYNE CITY	CHARLEVOIX COUNTY, MICHIGAN
SCALE: 1" = 30'	DRAWN BY: MRS
DATE: 10/16/2017	REVISED: CDB
orig survey by ranger & assoc.inc.	
JOB NUMBER	DRAWING NUM