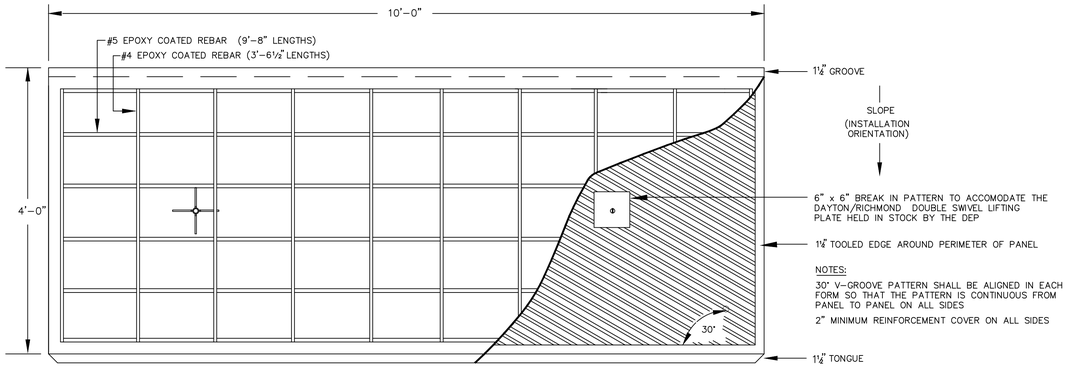


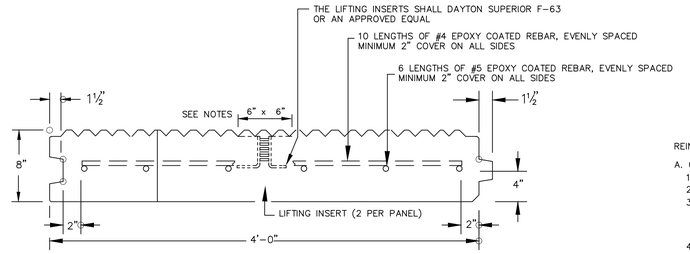
NOTES:

30° V-GROOVE PATTERN SHALL BE ALIGNED IN EACH FORM SO THAT THE PATTERN IS CONTINUOUS FROM PANEL TO PANEL ON ALL SIDES

2" MINIMUM REINFORCEMENT COVER ON ALL SIDES

PLAN VIEW

SCALE 1" = 1'-0"



NOTES:

PATTERN IS BROKEN (6"X6") TO ACCOMMODATE THE LIFTING APPARATUS (REFER TO PLAN VIEW)

COILS OF THE INSERTS SHALL NOT EXTEND ABOVE THE CONCRETE SURFACE

TYPICAL END VIEW

SCALE 1½" = 1'-0"

REINFORCED CONCRETE SPECIFICATION

A. CONCRETE SHALL MEET OR EXCEED THE FOLLOWING:
1. COMPRESSIVE-STRENGTH: f'c > 5000psi @ 28 DAYS
2. WATER/CEMENT RATIO (BY WEIGHT): 0.38 MAXIMUM
3. SLUMP: 3 INCH MAXIMUM
   NOTE: WHERE USE OF SUPERPLASTICIZERS ARE APPROVED TO PRODUCE FLOWING CONCRETE, THE ABOVE REQUIREMENT DOES NOT APPLY
4. PORTLAND CEMENT (ASTM C150): TYPE II, MINIMUM 658 LBS/CY
   NOTE: ONE BRAND OF CEMENT SHALL BE USED THROUGHOUT THE PROJECT
5. COARSE AGGREGATE (ASTM C33/DOT FORM 814A): 1/2" (NO. 67): MAXIMUM
6. FINE AGGREGATE (ASTM C33/DOT FORM 814A)
7. WATER (ASTM C94): POTABLE, CLEAN AND NOT DETRIMENTAL TO CONCRETE
8. ADMIXTURES:
   a. AIR ENTRAINMENT (ASTM C260 NON-CHLORIDE): 7% ±1%
   b. CHEMICAL ADMIXTURES (ASTM C494 – NON CHLORIDE): AS REQUIRED TO PROVIDE CONCRETE OF THE DESIRED QUALITY ON SITE

   NOTE:
   ALL ADMIXTURES USED THROUGHOUT THE PROJECT SHALL BE FROM ONE MANUFACTURER

B. REINFORCEMENT:

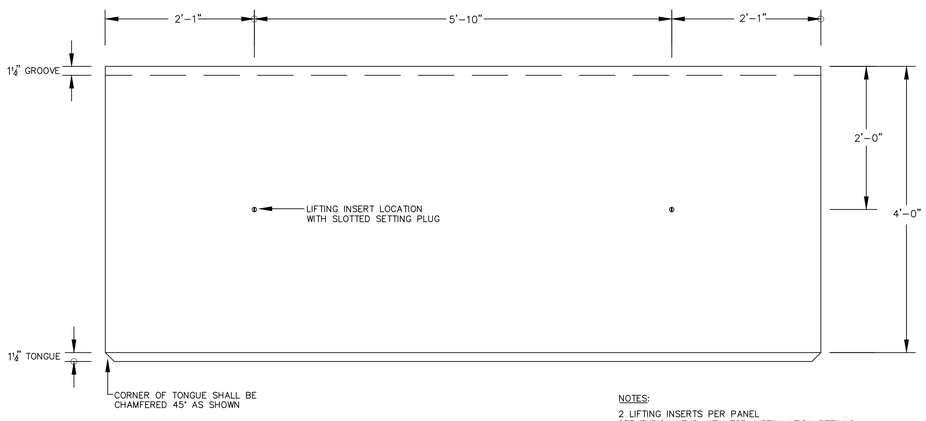
ALL REINFORCEMENT STEEL SHALL BE ASTM A615, GRADE 60

ALL REINFORCEMENT STEEL SHALL BE EPOXY COATED AFTER FABRICATION IN ACCORDANCE WITH ASTM A775

C. FINISH:
PATTERN IS BROKEN TO ACCOMODATE THE DAYTON/RICHMOND DOUBLE SWIVEL LIFTING PLATES

D. THE LIFTING INSERTS (SUPPLIED BY THE CONTRACTOR) MUST BE COMPATIBLE WITH DAYTON/RICHMOND DOUBLE SWIVEL LIFTING PLATES AND 3/4"ø X 5-1/2" LONG LIFT LAGS HELD IN STOCK BY DEP

E. ALL CONCRETE COMPONENTS SHALL BE FROM CONNECTICUT DEPARTMENT OF TRANSPORTATION APPROVED MANUFACTURERS AND/OR SOURCES



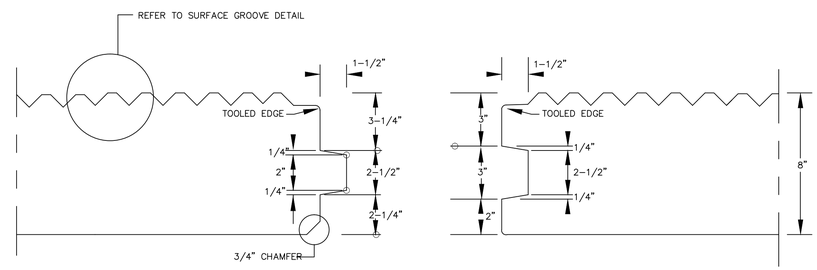
NOTES:

2 LIFTING INSERTS PER PANEL
SEE TYPICAL END VIEW FOR INSTALLATION DETAILS

LIFTING INSERTS SHALL BE STAINLESS STEEL

LIFTING INSERT LOCATION

SCALE 1" = 1'-0"



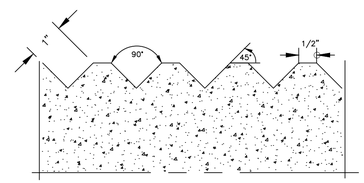
NOTES:

-1/2" TOOLED EDGE AT ALL TOP SURFACE EDGES

TOOLED EDGES SHALL HAVE A RADIUS NO GREATER THAN 1/4"

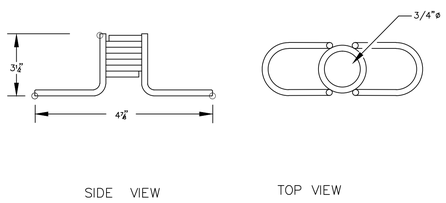
TYPICAL TONGUE AND GROOVE DETAIL

SCALE 3" = 1'-0"



SURFACE GROOVE DETAIL

SCALE 1/2" = 1"



LIFTING INSERT

NOT TO SCALE

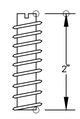
NOTES:

LIFTING INSERTS SHALL BE DAYTON SUPERIOR F-63 OR APPROVED EQUAL

LIFTING INSERTS SHALL BE STAINLESS STEEL COIL LIFTING INSERTS

EACH INSERT SHALL HAVE A SAFE WORKING LOAD IN TENSION OF ≥ 2000 POUNDS AND HAVE A FACTOR OF SAFETY 4 TO 1

THE LIFTING INSERT MUST ACCEPT 3/4"ø x 5-1/2" LIFT LAG BOLT AND BE COMPATIBLE WITH THE DAYTON/RICHMOND DOUBLE SWIVEL LIFTING PLATES



SLOTTED SETTING PLUG

NOT TO SCALE

NOTES:

ONE HUNDRED TWELVE (112) PLASTIC SLOTTED SETTING PLUGS COMPATIBLE WITH THE APPROVED LIFTING INSERTS SHALL BE PROVIDED TO DEP UPON DELIVERY OF THE PRECAST CONCRETE PANELS

NOTES:

1. THE LOCATION OF ALL STRUCTURES, EQUIPMENT, DELINEATIONS AND OTHER FEATURES PRESENTED ON THIS DRAWING SHOULD BE CONSIDERED APPROXIMATE. TRITON MAKES NO WARRANTY AS TO THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION CONTAINED IN THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY FROM RELIANCE THEREON.

2. DETAILS TAKEN FROM PLAN ENTITLED:
"FABRICATION DETAILS FOR 56 PRECAST REINFORCED CONCRETE BOAT LAUNCH PANELS DATE: 5-5-10 BY: STATE OF CONNECTICUT DEPT. OF ENVIRONMENTAL PROTECTION, ENGINEERING UNIT." (SHEETS 1 & 2 OF 2)

3. PANELS ARE TO BE PROVIDED BY DEEP FOR THE CONTRACTOR TO INSTALL.

STATE OF CONNECTICUT
DEPARTMENT OF ENERGY
AND ENVIRONMENTAL PROTECTION

ENGINEERING AND FIELD SUPPORT SERVICES

ENGINEERING UNIT
163 GREAT HILL ROAD
PORTLAND, CONNECTICUT
PHONE: 860-342-2215
FAX: 860-344-2560

PROJECT NAME & NUMBER:

SHEET TITLE:

DETAILS FOR CONCRETE BOAT LAUNCH PANELS

CONSTRUCTION DOCUMENTS

REVISIONS

DATE	DESCRIPTION	INITIALS

DATE: 10/20/2015	DESIGNED: RGM	SHEET #:	
SCALE: 1" = 30'	DRAWN: JSB	1/2	
CAD FILE:			