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E05-22-11 South Shore Harbor Boat Slip Fire Protection Project
Flood Protection Authority - East

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16-May-2022 08:04:04 PM

LAKEFRONT MANAGEMENT AUTHORITY

SOUTH SHORE HARBOR BOAT SLIP FIRE PROTECTION PROJECT NEW ORLEANS, LA

PROJECT DIRECTORY:

**SOUTHSHORE HARBOR - BOAT SLIP
FIRE PROTECTION PROJECT**
6701 STARS AND STRIPES BLVD.
NEW ORLEANS, LA 70126

OWNER/USER AGENCY:
NEW ORLEANS LAKE FRONT AUTHORITY
TEL: 504-782-0458
CONTACT: DAVID MARTIN

ARCHITECT/PROJECT MANAGER:
LINFIELD, HUNTER & JUNIUS, INC.
PROFESSIONAL ENGINEERS,
ARCHITECTS AND SURVEYORS
3608 18TH STREET
SUITE 200,
METAIRIE, LA 70002
TEL: 504.833.5300
CONTACT: BENJAMIN N. CHADWICK, AIA
BCHADWICK@LHJUNIOUS.COM

MEP ENGINEERS:
HUSEMAN & ASSOCIATES, LLC.
3501 N. CAUSEWAY BLVD.,
SUITE 710
METAIRIE, LA 70002
TEL: 504.468.3319
CONTACT: PEDRO R. GOMEZ
PEDROG@HUSEMANLLC.COM

PROJECT DESCRIPTION

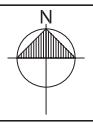

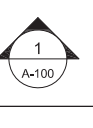
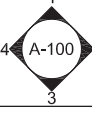
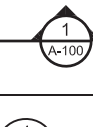
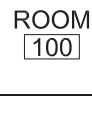
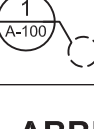
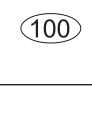
CODES: 2015 IBC INTERNATIONAL BUILDING CODE
2015 NFPA 101 - LIFE SAFETY CODE

CONSTRUCTION TYPE: N/A

OCCUPANCY CLASSIFICATION: STORAGE S-1
SQUARE FOOTAGE:
APPROX. 61,232 SQ.FT

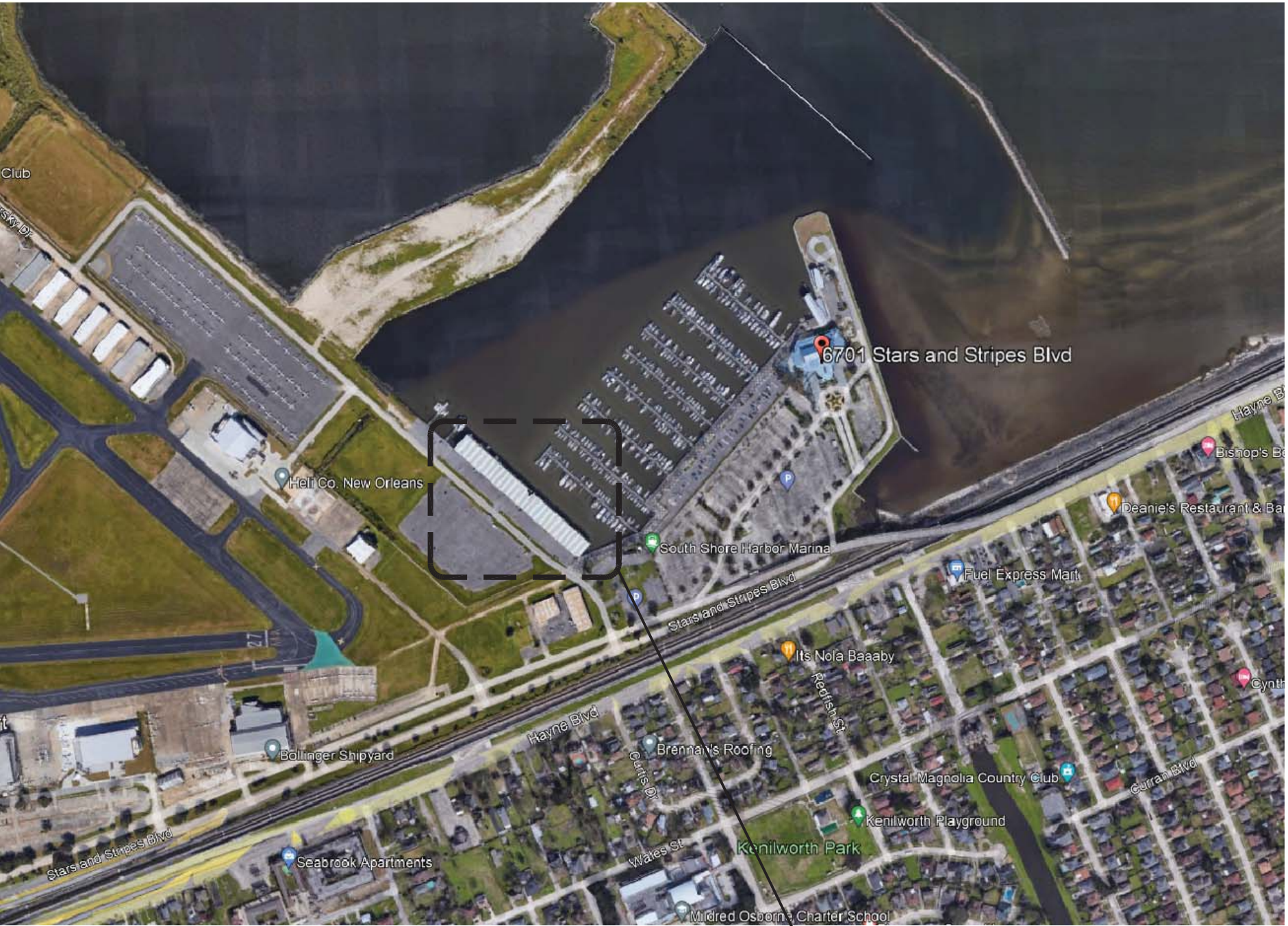
SCOPE OF WORK SUMMARY:
INSTALL NEW DRY TYPE FIRE SUPPRESSION SYSTEM AND NEW FIRE RISERS. INSTALL NEW FIRE ALARM PANELS AT EACH NEW RISER LOCATION. ENCLOSE RISER IN HEATER AND MODULAR UTILITY STRUCTURES. INSTALL NEW DETECTION, NOTIFIERS, WIRING, AND COMMUNICATION AS REQUIRED. DEMOLISH AND REMOVE EXISTING WET FIRE SUPPRESSION SYSTEM AND RISERS. TEST ALL NEW CONSTRUCTION AS REQUIRED.

GRAPHIC AND MATERIAL SYMBOLS

	NORTH ARROW		KEYNOTE
	ELEVATION TAG		INTERIOR ELEVATION TAG
	SECTION TAG		ROOM NAME ROOM NUMBER
	DETAIL CALL-OUT		DOOR OPENING

ABBREVIATIONS

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
ACT	ACOUSTIC CEILING TILE	HM	HOLLOW METAL
ADJ	ADJACENT	HORIZ	HORIZONTAL
AL/ALUM	ALUMINUM	H.R.	HANDRAIL
AFF	ABOVE FINISH FLOOR	LAV.	LAVATORY
BLDG	BUILDING	MECH.	MECHANICAL
BD	BOARD	MG	METAL GUARDRAILS
BF	BACKFILL	MFG	MANUFACTURER
C	CONCRETE	M.O.	MASONRY OPENING
CONC.	CONCRETE	MSC	MISCELLANEOUS CHANNEL
CHLORN	CHLORINE	MTL	METAL
C.L.F.	CHAIN LINK FENCE	N/A	NOT APPLICABLE
CLG.	CEILING	NIC	NOT IN CONTRACT
CNU	CONCRETE MASONRY UNIT	OC	ON CENTER
CONT.	CONTINUOUS	PB	PIPE BOLLARD
CP	CARPET	PLAM/LAM	PLASTIC LAMINATE
CU	COOLING UNIT	REQ.	REQUIRED
CT	CERAMIC TILE	PREP	PREPARATION
CTB	CERAMIC TILE BASE	SCH.	SCHEDULE
DIA	DIAMETER	PW	PLYWOOD
DS	DOWNSPOUT	SIM	SIMILAR
DWG.	DRAWING	SPEC(S)	SPECIFICATION(S)
ELEC	ELECTRICAL	SS	STAINLESS STEEL
EXIST.	EXISTING	STL	STEEL
F.F.	FINISH FLOOR LEVEL	TOBB	TOP OF BOND BEAM
FRP	FIBER REINFORCED PLASTIC	TOS	TOP OF STEEL
FLR.	FLOOR	TYP	TYPICAL
F.D.	FLOOR DRAIN	VCT	VINYL COMPOSITION TILE
F.E.	FIRE EXTINGUISHER CAB.	VERT	VERTICAL
GA	GAGE, GAUGE	VOJ	VERIFY ON JOB
GALV.	GALVALUMED	VB	VINYL BASE
GBGR	GYP SUM GREEN BOARD	WI	WITH
GCC	GYP SUM CORE CEILING	WDSC	WOOD DOOR SOLID CORE
GL	GLASS	W.F.	WATER FOUNTAIN
GYP	GYP SUM BOARD		



PROJECT LOCATION
6701 STARS AND STRIPES BLVD.
NEW ORLEANS, LA 70126

GENERAL NOTES:

- THE CONTRACTOR IS TO READ ALL PORTIONS AND SECTIONS OF THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL REVIEW FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, APPROVE AND SUBMIT TO THE ARCHITECT SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR SUBMITTALS REQUIRED BY THE CONTRACT DOCUMENTS PRIOR TO SHIPPING TO THE ARCHITECT. THE CONTRACTOR'S REVIEW STAMP CONFIRMS COMPLIANCE WITH THE CONTRACT DOCUMENTS. ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS ARE TO BE CLEARLY AND VISIBLY NOTED.
- THESE DRAWINGS ARE INTENDED TO OUTLINE THE SCOPE OF WORK REQUIRED TO PROVIDE A COMPLETE AND OPERABLE PROJECT CONCLUSION. ALL MISCELLANEOUS COMPONENTS, PARTS, FASTENERS, SPLICES, AND OTHER INCIDENTAL ITEMS NECESSARY TO PROVIDE A COMPLETED PROJECT TO BE PROVIDED WHETHER OR NOT SPECIFICALLY NOTED.
- IN CASE OF A DISCREPANCY AND OR CONFLICT WITHIN THE DRAWINGS OR SPECIFICATIONS, CONTRACTOR IS TO INSTALL THE HIGHER GRADE, MORE STRINGENT, PRODUCT OR SYSTEM. VERIFY WITH ARCHITECT FOR FINAL APPROVAL.
- IN NO CASE ARE WORKING DIMENSIONS TO BE SCALED FROM PLANS, SECTIONS, OR DETAILS. CONTRACTOR TO VERIFY ALL MEASUREMENTS IN FIELD PRIOR TO ORDERING MATERIAL.
- CONTRACTOR IS NOT TO DEVIATE FROM THE CONTRACT DOCUMENTS, DUE TO CONTRACTOR OMISSIONS DURING THE CONSTRUCTION PROCESS. WITHOUT AUTHORIZATION FROM THE ARCHITECT AND/OR ENGINEER, CONTRACTOR IS RESPONSIBLE TO FURNISH THE COMPLETE PROJECT AS ORIGINALLY INTENDED WITHIN THE CONTRACT DOCUMENTS.
- CONTRACTOR IS TO NOTIFY THE ARCHITECT AND/OR ENGINEER TO ALL SIGNIFICANT WORK TO BE CONCEALED AT LEAST 48 HOURS PRIOR TO THE EVENT. IN THE EVENT THAT NEITHER THE ARCHITECT OR ENGINEER CAN OBSERVE THE WORK PRIOR TO CONCEALMENT, THE CONTRACTOR IS TO TAKE CONSTRUCTION PHOTOS OF THE WORK WHICH WOULD PRECLUDE ACCESS. ACCESS TO PHOTOS ARE TO BE GRANTED TO ARCHITECT AND/OR ENGINEER UPON REQUEST.
- ALL OPENINGS RESULTING FROM BUILDING CONSTRUCTION SHALL BE SEALED FROM THE ELEMENTS DURING RAIN EVENTS AND AT THE CONCLUSION OF EACH WORK DAY
- CONTRACTOR TO NOTIFY THE ARCHITECT IMMEDIATELY OF ANY CONFLICTS ARISING FROM DISCOVERED CONDITIONS AT ANY PHASE OF THE PROJECT.
- ANY DEVIATION TO THE CONTRACT DOCUMENTS NOT APPROVED IN WRITING BY THE OWNER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT AT HIS/HER OWN EXPENSE.
- DURING AND UPON COMPLETION OF THE WORK, ALL SURFACES, FIXTURES, AND EQUIPMENT SHALL BE KEPT CLEAN AND FREE OF EXCESS MATERIALS, STAINS, OR DUST.
- CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO THE START OF WORK TO MAKE SURE AREA IS CLEAR.
- CONTRACTOR TO PROTECT THE BUILDINGS DURING CONSTRUCTION, ANY DAMAGES SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
- CONTRACTOR TO PERFORM ALL ELECTRICAL AND MECHANICAL WORK IN ACCORDANCE TO LOCAL, STATE, AND FEDERAL CODE REQUIREMENTS.

INDEX OF DRAWINGS:

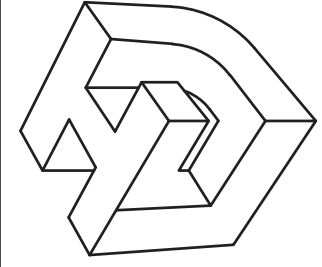
T-100 TITLE SHEET
LS-100 LIFE SAFETY PLAN

CIVIL
C-100 SITE PLAN

STRUCTURAL
S-001 GENERAL NOTES
S-100 PLATFORM FRAMING PLAN
S-101 FOUNDATION PLANS AND DETAILS
S-200 TYPICAL ELEVATION
S-201 TYPICAL ELEVATION
S-202 DETAILS

FIRE PROTECTION
FP-101 FIRE PROTECTION PLAN

LINFIELD, HUNTER & JUNIUS, INC.
PROFESSIONAL ENGINEERS, ARCHITECTS
AND SURVEYORS
3608 18th Street, Suite 200
Metairie, Louisiana 70002



REV. NO.	DATE

**SOUTHSHORE HARBOR - BOAT SLIP
FIRE PROTECTION PLANS**

THIS SHEET
TITLE SHEET
DRAWN BY
BNC

APPROVED BY
BNC

PROJ. NO. 22-005

DATE 04-20-2022

SHEET NO.

T-100

OF SHEETS

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IBC CODE DATA:

1.OCCUPANCY CLASSIFICATION (304): STORAGE GROUP S-1 (311.2)		PROVIDED:	2 OR MORE PER FLOOR
2.CONSTRUCTION TYPE (601):		TYPE II-B	
3.BUILDING HEIGHT (504.3)			
ALLOWABLE HEIGHT:		75'-0" TALL	
ACTUAL HEIGHT:		+/- 26'-10" TALL	
4. BUILDING AREA			
ALLOWABLE:		70,000	
ACTUAL:		+/- 61,232	
4.DESIGN OCCUPANT LOAD (TABLE 1004.1)			
OCCUPANCY LOAD:		61,232/200 S.F. =306.16	
5.EXITS/EGRESS (1005)			
B. MIN. DOOR WIDTH (1010.1.1):			
REQUIRED		32" CLEAR	
PROVIDED		32" OR GREATER	
C. CORRIDOR (1020.2)			
MIN. CORRIDOR WIDTH		36"	
EXIST. CORRIDOR WIDTH		60" OR GREATER	
6. NUMBER OF EXITS (1006.2.1)			
REQUIRED:		2 PER FLOOR	
7. TRAVEL DISTANCE (1017)			
ALLOWABLE TRAVEL DISTANCE:		200'-0"	
MAXIMUM TRAVEL DISTANCE:		105'-0" MAX	
8. DEAD END CORRIDORS (1020.4)			
MAX. DEAD END CORRIDOR DISTANCE (1020.4):		50'-0"	
9. FIRE PROTECTION SYSTEMS (901)			
		REQUIRED /PROVIDED	
A. SPRINKLER SYSTEM (903.2.9):		YES	YES
B. STANDPIPE SYSTEM (905):		YES	YES
C. PORTABLE FIRE EXT. (906):		YES	YES
1. MAX TRAVEL DISTANCE (906.1)		105'-0"	
2. FIRE EXTINGUISHER TYPE (906.3.2)		20-B	
3.CLASS A FIRES (906.3)			
D. FIRE & SMOKE DETECTION (907):		YES	YES

LIFE SAFETY CODE DATA:

1.OCCUPANCY CLASSIFICATION (42.1.1.4): STORAGE	
2.CLASSIFICATION OF HAZARD CONTENTS (4.2.1.5):	
A. ORDINARY HAZARD CONTENTS (6.2.2.3)	
3.DESIGN OCCUPANT LOAD (TABLE 42.1.7)	
OCCUPANT LOAD FACTOR (7.3.1.2)	
61,232/300 S.F. =205 OCC.	
4.EXITS/EGRESS	
B. MIN. DOOR WIDTH (7.2.1.2.3.2):	
REQUIRED	32" CLEAR
PROVIDED	32" OR GREATER
5. NUMBER OF MEANS OF EGRESS (42.2.4)	
A. NOT LESS THAN 2 MEANS OF EGRESS REMOTELY LOCATED	
6. TRAVEL DISTANCE (42.2.6)	
TRAVEL DISTANCE (42.2.6):	400'-0" PROTECTED
DEAD END CORRIDOR (42.2.5)	100'-0" PROTECTED
COMMON PATH OF TRAVEL	100'-0" PROTECTED
7. EMERGENCY LIGHTING	
REQUIRED/PROVIDED	YES
7. FIRE DETECTION/ALARM COMMUNICATION SYSTEM (42.8.3.4)	
REQUIRED/PROVIDED	YES
YES	YES

LEGEND:

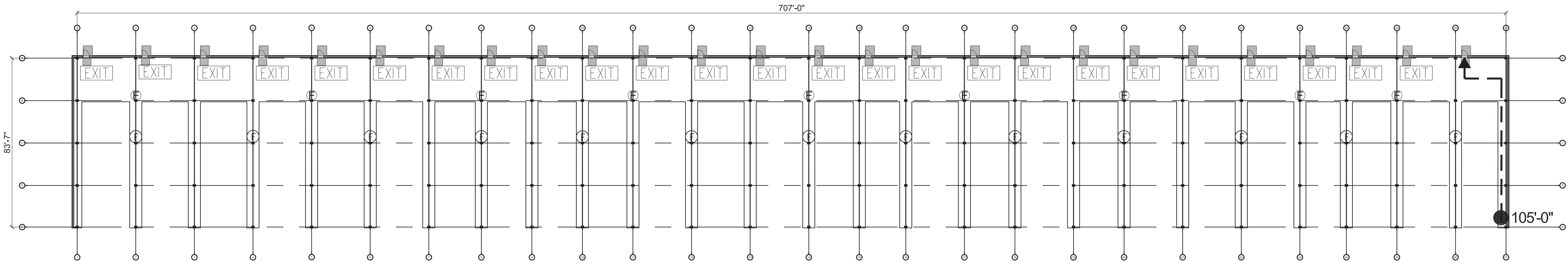
	30"x48" ACCESSIBLE CLEAR FLOOR SPACE
	ACCESSIBLE DOOR CLEARANCE (48"x48" & 60"x54")
	60" TURNING RADIUS
	MAX. EGRESS TRAVEL DISTANCE TO AN EXIT
	PROVIDE LISTED & LABELED DRY-CHEMICAL UL-RATED FIRE EXTINGUISHER
	ILLUMINATED EXIT SIGN
	ACCESSIBLE AREA OR EXIT
	DIRECTION AND PATH OF EGRESS

FIRE EXTINGUISHER SCHEDULE

ID	TYPE
F	CLASS ABC FIRE EXTINGUISHER

2015 IFC:

MARINE- ANY PORTION OF THE OCEAN OR INLAND WATER, EITHER NATURALLY OR ARTIFICIALLY PROTECTED, FOR THE MOORING, SERVICING OR SAFETY OF VESSELS AND SHALL INCLUDE ARTIFICIALLY PROTECTED WORKS, THE PUBLIC OR PRIVATE LANDS ASHORE, AND STRUCTURES OR FACILITIES PROVIDED WITHIN THE ENCLOSED BODY OF WATER AND ASHORE FOR THE MOORING OR SERVICING OF VESSELS OR THE SERVICING OF THEIR CREWS OR PASSENGERS.



LIFE SAFETY PLAN
SCALE: 1/32" = 1'-0"

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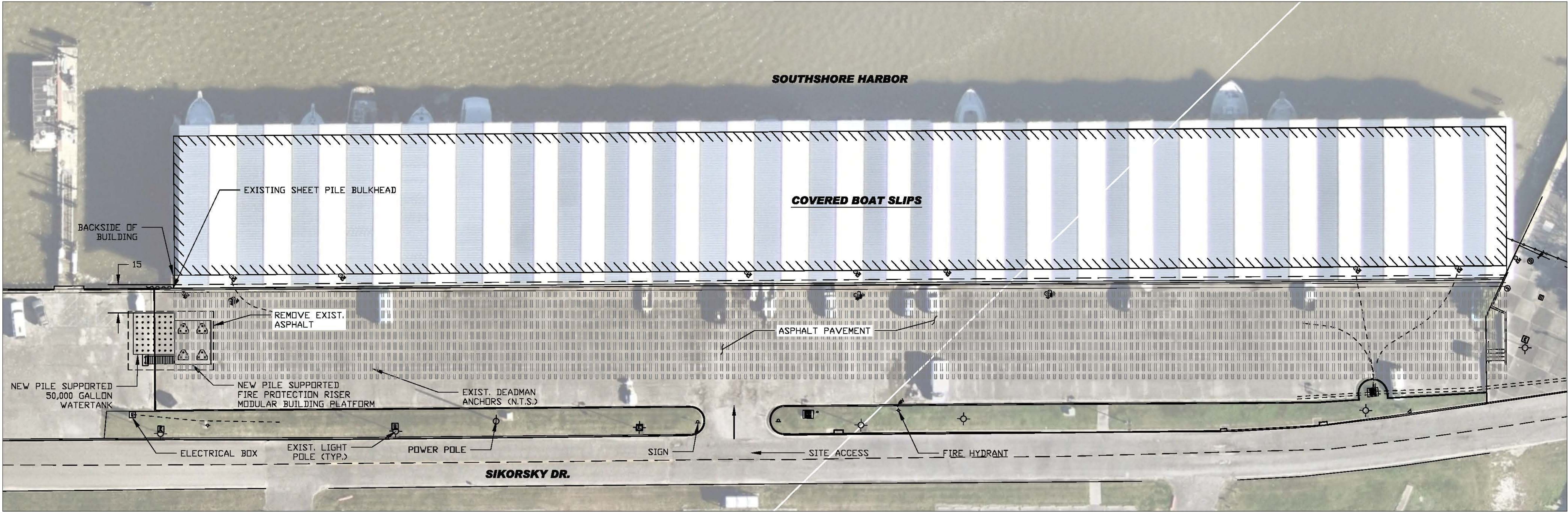
REV. NO.	DATE

SOUTHSHORE HARBOR - BOAT SLIP FIRE PROTECTION PLANS	
THIS SHEET LIFE SAFETY PLAN	
DRAWN BY BNC	CHECKED BY BNC
	APPROVED BY BNC

PROJ. NO.	22-005
DATE	04-20-2022
SHEET NO.	

LS-100

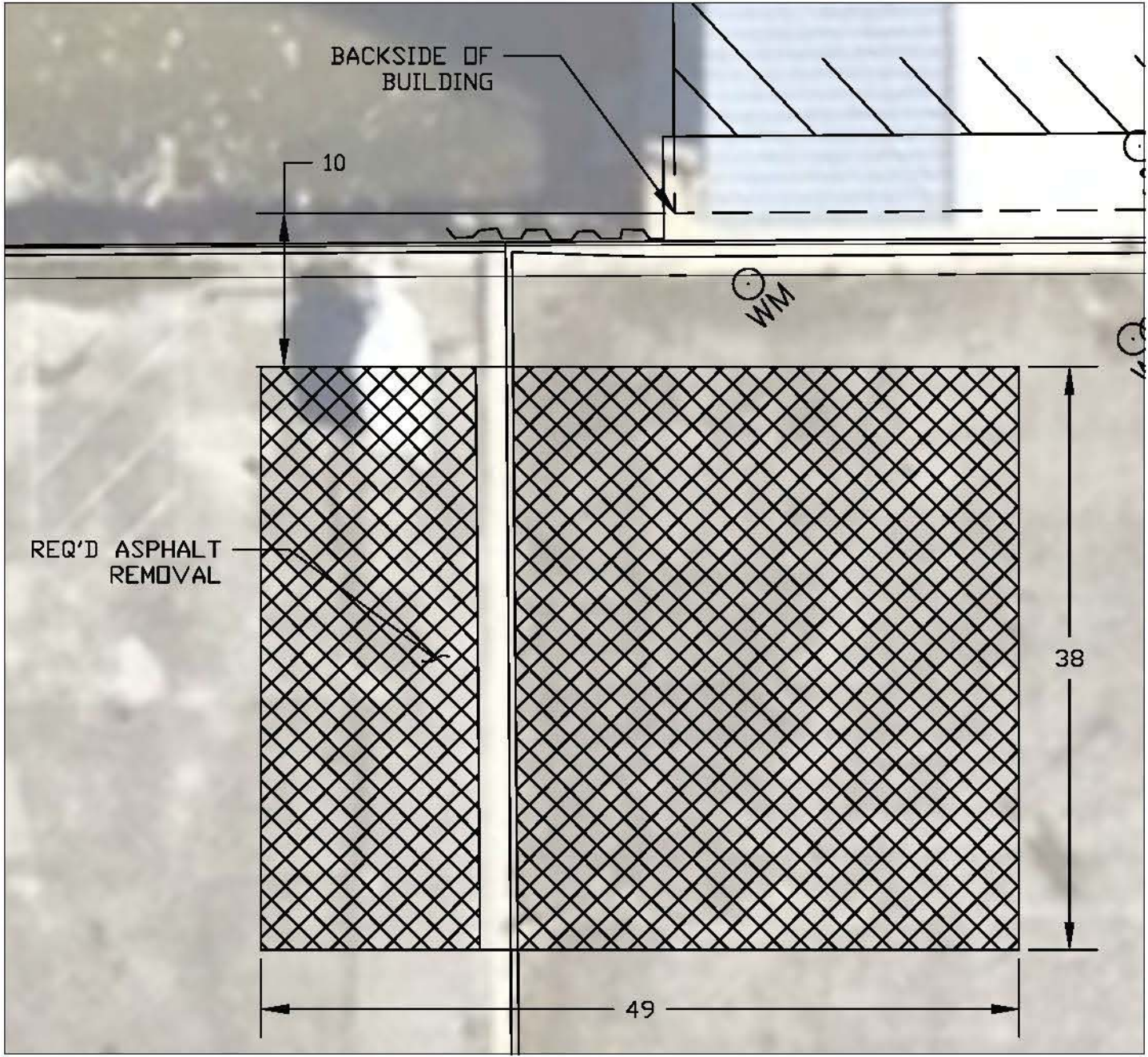
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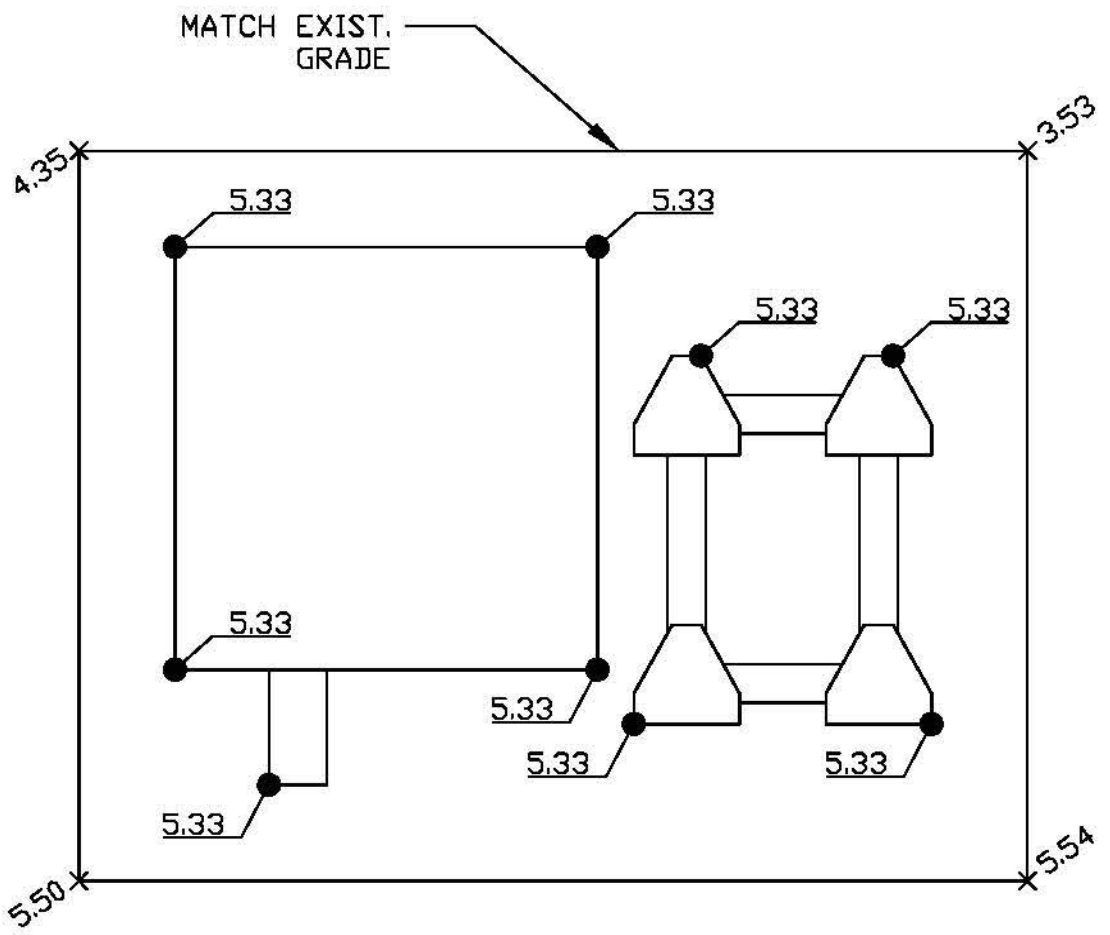
NOTE:
1. CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES, DEADMAN ANCHORS, AND OTHER OBSTRUCTIONS BEFORE DRIVING PILES.

SITE PLAN
SCALE: 1" = 30'

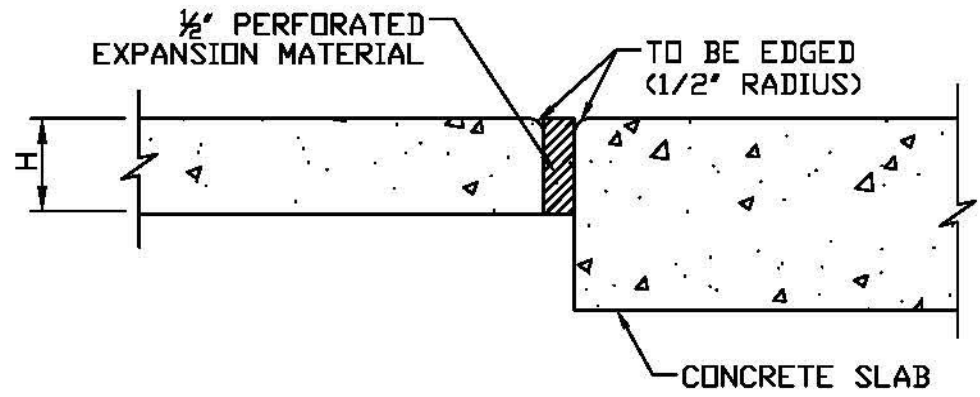
LEGEND	
	EXIST. POWER OR TELEPHONE POLE
	EXIST. LIGHT POLE
	EXIST. SIGN
	EXIST. DROP INLET
	EXIST. FIRE HYDRANT
	EXIST. ELECTRICAL BOX
	EXIST. GENERATOR PAD
	EXIST. CATCH BASIN
	EXIST. DRAINAGE MANHOLE
	EXIST. SEWER MANHOLE
	EXIST. WATER VALVE
	EXIST. ELECTRIC METER
	EXIST. WATER METER
	CENTER OF ROADWAY
	UNDERGROUND ELECTRICAL LINE
	EXIST. SHEET PILE
	COVERED BOAT SLIP BUILDING



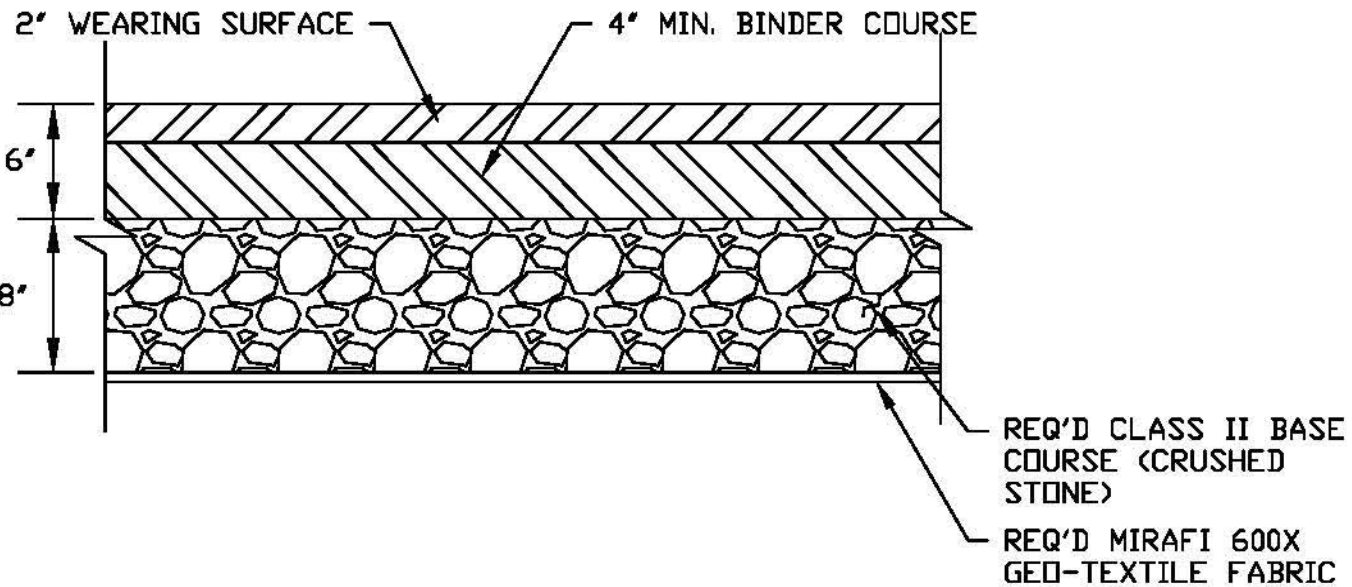
DEMOLITION PLAN
SCALE: 1" = 10'



NEW ASPHALT PLAN
SCALE: 1" = 10'

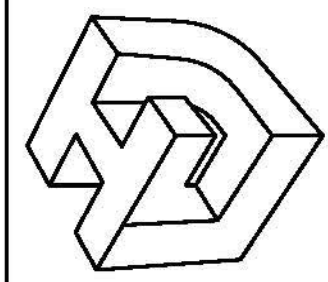


EXPANSION JOINT SECTION
SCALE: N.T.S.



ASPHALT SECTION
SCALE: N.T.S.

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3608 18th Street, Suite 200
Metairie, Louisiana 70002



REV. NO.	DATE

SOUTHSHORE HARBOR - BOAT SLIP FIRE PROTECTION PLANS	
THIS SHEET SITE PLAN	APPROVED BY BNC
DRAWN BY BNC	CHECKED BY BNC

PROJ. NO. 22-006
DATE 04-20-2022
SHEET NO.
C-100
OF SHEETS

STRUCTURAL GENERAL NOTES

A. GENERAL

- DO NOT SCALE CONTRACT DRAWINGS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.
- VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK OR FABRICATING MATERIALS
- ARCHITECT'S APPROVAL MUST BE SECURED FOR ALL SUBSTITUTIONS.

B. GOVERNING BUILDING CODE:

- INTERNATIONAL BUILDING CODE 2015.
- STRUCTURAL MEMBERS ARE DESIGNED USING LOAD COMBINATIONS IN ACCORDANCE WITH THE ADOPTED BUILDING CODE.
- MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES, ASCE 7-10.

C. DESIGN CRITERIA AND LIVE LOADS

- WIND PRESSURE
 - ULTIMATE DESIGN WIND SPEED (3 SEC. GUST) V_{ULT} 142 MPH
 - NOMINAL DESIGN WIND SPEED (3 SEC. GUST) V_{ASD} 111 MPH
 - RISK CATEGORY II
 - WIND EXPOSURE CATEGORY..... C
- LIVE LOADS:
 - PLATFORM:
 - UNIFORM LOAD..... 100 PSF

D. DISCOVERY AND FIELD VERIFICATION

- DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH ARE NOT NOW KNOWN OR ARE AT VARIANCE WITH PROJECT DOCUMENTATION (DISCOVERY). SUCH CONDITIONS MAY INTERFERE WITH NEW CONSTRUCTION OR REQUIRE PROTECTION AND/OR SUPPORT OF EXISTING WORK DURING CONSTRUCTION, OR MAY CONSIST OF DAMAGE OR DETERIORATION TO STRUCTURAL MATERIALS OR COMPONENTS WHICH COULD JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING(S).
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ALL DISCOVERIES HE BELIEVES MAY INTERFERE WITH PROPER EXECUTION OF THE WORK OR JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING(S) PRIOR TO PROCEEDING WITH WORK RELATED TO SUCH DISCOVERIES.
- THE STRUCTURAL DOCUMENTS MAY SPECIFY DIMENSIONS, ELEVATIONS AND CONSTRUCTION CONDITIONS TO BE FIELD VERIFIED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL SPECIFIED CONDITIONS PRIOR TO PROCEEDING WITH THE CONSTRUCTION OR FABRICATION OF ANY STRUCTURAL COMPONENTS RELATED TO SUCH CONDITIONS. THIS FIELD VERIFICATION SHALL BE MADE IN A TIMELY MANNER SO AS TO CAUSE NO DELAYS IN EXECUTION OF THE WORK.

E. STRUCTURAL STABILITY DURING CONSTRUCTION

- THE STRUCTURAL DRAWINGS ILLUSTRATE THE COMPLETED STRUCTURE WITH ALL ELEMENTS IN THEIR FINAL POSITIONS, PROPERLY SUPPORTED AND BRACED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS.
- THE STRUCTURAL STEEL SUPERSTRUCTURE IS NOT Laterally SELF-SUPPORTING UNTIL ALL THE CONNECTIONS TO ALL LATERAL LOAD RESISTING ELEMENTS ARE IN PLACE.
- ERECTION CONNECTORS SHALL BE PROVIDED IN ORDER TO PROPERLY ALIGN AND HOLD THE STRUCTURE.
- THE CONTRACTOR, IN THE PROPER SEQUENCE, SHALL PROVIDE PROPER SHORING AND BRACING AS MAY BE REQUIRED DURING CONSTRUCTION TO ACHIEVE THE FINAL COMPLETED STRUCTURE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SAFETY ISSUES AS MANDATED BY FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. THE CONTRACTOR SHALL EMPLOY A "COMPETENT PERSON" AS DEFINED IN OSHA REGULATIONS TO IDENTIFY SAFETY ISSUES. THE CONTRACTOR SHALL EMPLOY A "QUALIFIED PERSON" AS DEFINED IN OSHA REGULATIONS TO SPECIFY THE RESOLUTION OF SAFETY ISSUES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND SPECIFYING ANY MODIFICATIONS TO THE STRUCTURE REQUIRED FOR COMPLIANCE WITH OSHA REGULATIONS AND GENERALLY ACCEPTED PRINCIPLES OF CONSTRUCTION. THE CONTRACTOR SHALL PROPOSE ALL SUCH MODIFICATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.

F. SUBMITTALS

- ALL SUBMITTALS SHALL BE IN PDF FORMAT PLUS HARD COPIES AS REQUIRED BELOW.
- FURNISH SHOP AND ERECTION DRAWINGS TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION. SUBMIT IN A TIMELY MANNER TO PERMIT 15 WORKING DAYS FOR REVIEW BY STRUCTURAL ENGINEER OF RECORD.
- FURNISH FOUR SETS OF CONCRETE AND GROUT DESIGNS INCLUDING STRENGTH TEST DATA AND MANUFACTURER'S LITERATURE ON ADMIXTURES FOR REVIEW BY STRUCTURAL ENGINEER OF RECORD AND OWNER'S TESTING LAB NO LATER THAN 2 WEEKS PRIOR TO ON-SITE USE OF THESE MATERIALS.
- GENERAL AND SUB-CONTRACTOR NOTES:
 - THE GENERAL CONTRACTOR SHALL REVIEW ALL SUBMITTALS PRIOR TO SUBMITTAL FOR REVIEW BY THE STRUCTURAL ENGINEER IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 - THE STRUCTURAL DRAWINGS SHALL NOT BE USED AS BACKGROUNDS FOR SHOP OR ERECTION DRAWINGS. DRAWINGS PREPARED IN THIS MANNER AND SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER WILL BE RETURNED REJECTED AND CONSIDERED AS NOT BEING IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS.

G. FOUNDATIONS - DRIVEN TIMBER PILES

- PILE FOUNDATION DESIGN IS BASED ON THE CITY OF NEW ORLEANS BUILDING CODE TABLE 1811.12.2.3 "MAXIMUM ALLOWABLE SINGLE PILE LOAD CAPACITY WITHOUT INVESTIGATIONS OR LOAD TESTS, CITY OF NEW ORLEANS, LOUISIANA", AREA GM-21.
- PREPARE SITE AS FOLLOWS:
STRIP EXISTING GRADE OF EXISTING PAVEMENTS, OLD FOUNDATIONS, ALL TOPSOIL, VEGETATION, AND OTHER UNDESIRABLE MATERIALS.
- PILES SHALL BE CLASS 5, PRESSURE TREATED TIMBER CONFORMING TO ASTM D25 AND AS FOLLOWS:
 - MINIMUM BUTT DIAMETER..... 8 IN. (MEASURED 3 FT. FROM BUTT)
 - MINIMUM TIP DIAMETER..... 6 IN.
 - DESIGN LOAD..... 6 TONS.
 - LENGTH..... 35 FEET

G. FOUNDATIONS - DRIVEN TIMBER PILES (CONT.)

- PILES SHALL BE DRIVEN USING A HAMMER OF AN APPROVED TYPE WITH A CAPACITY OF AT LEAST EQUAL TO THE HAMMER MANUFACTURER'S RECOMMENDATIONS FOR THE TOTAL WEIGHT OF THE PILE AND THE CHARACTERISTICS OF THE SUBSURFACE MATERIAL TO BE ENCOUNTERED.
- BROKEN, SHATTERED OR BROOMED PILES, OR PILES MORE THAN 2% OUT OF PLUMB, OR ANY PILE MORE THAN 3 INCHES OUT OF PLACE SHALL BE REMOVED OR LEFT IN PLACE AND A REPLACEMENT PILE DRIVEN AS DETERMINED BY THE ENGINEER.
- CONTRACTOR SHALL MONITOR PILE DRIVING VIBRATIONS TO DETERMINE IF THE EFFECTS ON LOCAL STRUCTURES AND UTILITIES REQUIRE PILE DRIVING PROCEDURE MODIFICATIONS.
- DO NOT PLACE BACKFILL AGAINST FOUNDATION WALLS OR GRADE BEAMS UNTIL BRACING FLOORS ARE IN PLACE, OR OTHER ADEQUATE BRACING IS INSTALLED.
- PROVIDE EQUIPMENT TO EXCAVATE OBSTRUCTIONS UP TO 7 FEET DEEP.

H. CAST IN PLACE CONCRETE

- STRUCTURAL CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318-14.
- WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-10, "SPECIFICATIONS FOR STRUCTURAL CONCRETE", PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, FARMINGTON HILLS, MICHIGAN, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
- TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF ACI 117-10, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, FARMINGTON HILLS, MICHIGAN, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE, UNIT WEIGHT APPROXIMATELY 145 PCF, UNLESS NOTED. CLEARLY IDENTIFY INTENDED USE FOR EACH MIX DESIGN SUBMITTED FOR APPROVAL.
- CONCRETE SHALL CONFORM TO THE FOLLOWING:

USE	f_c AT 28-DAYS	AIR CONTENT	W/C RATIO
a.) PILE CAPS, GRADE BEAMS	3,500 PSI	0% TO 2%	0.50
- ALL CONCRETE SHALL USE TYPE I/II-1 CEMENT.
- CLASS C FLY ASH CONFORMING TO THE REQUIREMENTS OF ASTM C618 CAN BE USED UP TO 15% BY MASS OF CEMENTITIOUS MATERIAL.
- GROUND GRANULATED BLAST-FURNACE SLAG CONFORMING TO THE REQUIREMENTS OF ASTM C989 CAN BE USED UP TO 25% BY MASS OF CEMENTITIOUS MATERIAL.
- COARSE AND FINE AGGREGATES SHALL CONFORM TO ASTM C33. USE #67 STONE FOR COARSE AGGREGATE IN CONCRETE.
- MAXIMUM SLUMP FOR CONCRETE WITHOUT WATER-REDUCING ADMIXTURES OR PRIOR TO THEIR ADDITION IS 4 INCHES. MAXIMUM SLUMP FOR CONCRETE WITH LOW TO MODERATE RANGE WATER-REDUCING ADMIXTURES IS 6 INCHES. MAXIMUM SLUMP FOR CONCRETE WITH HIGH RANGE WATER REDUCING ADMIXTURES IS 8 INCHES.
- MIXING WATER SHALL BE POTABLE. THE USE OF WASH WATER AS A PORTION OF THE MIXING WATER SHALL NOT BE PERMITTED.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4", UNLESS NOTED OTHERWISE.
- CLEAN ALL CONSTRUCTION JOINTS THOROUGHLY AND PURPOSELY ROUGHEN THE SURFACE TO 1/4" AMPLITUDE USING A ROTARY HAMMER PRIOR TO PLACING ADJACENT CONCRETE.
- BEAMS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE. ANY STOP IN CONCRETE WORK MUST BE MADE AT CENTER OF SPAN OR AT CENTER OF SUPPORT WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS, UNLESS OTHERWISE SHOWN. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR AS APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER.
- IT WILL NOT BE PERMITTED TO CUT, BEND, OR DISPLACE THE REINFORCING STEEL FROM ITS PROPER LOCATION.
- COORDINATION SHALL BE MADE BY THE CONTRACTOR AT HIS EXPENSE TO FOLLOW THE ABOVE GUIDELINES.
- CAREFULLY COORDINATE THE PLACEMENT OF ALL CAST-IN-PLACE EMBEDS AND ANCHOR RODS. ANCHOR RODS SHALL BE SET WITH A TEMPLATE. ALL EMBED ITEMS SHALL BE SECURELY ATTACHED TO FORMWORK OR REINFORCING.

J. REINFORCING STEEL

- PROVIDE NEW BILLET STEEL REINFORCING CONFORMING TO ASTM A615, GRADE 60.
- CONCRETE CLEAR COVER OVER REINFORCING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-11 AS FOLLOWS:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH... 3"
 - CONCRETE EXPOSED TO WEATHER OR EARTH:
 - BARS #5 AND SMALLER..... 1-1/2"
 - BARS #6 AND LARGER..... 2"
 - CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
 - COLUMNS, BEAMS: PRIMARY STIRRUPS OR TIES..... 1-1/2"
 - SLABS, JOISTS, OR WALLS NO. 11 AND SMALLER..... 3/4"
 - SLABS, JOISTS, OR WALLS NO. 14 AND NO. 18..... 1-1/2"
- REINFORCING PLACING TOLERANCES
 - CLEAR DISTANCE FROM BARS TO:
 - SOFFIT ON EARTH..... +/- 1/2"
 - FORMED SOFFIT..... +/- 1/4"
 - FORMED SIDE OR VERTICAL SURFACE..... +/- 3/8"
 - TOP SURFACE
 - DEPTH 8" OR LESS..... +/- 1/4"
 - DEPTH MORE THAN 8", NOT MORE THAN 24".... +/- 1/2"
 - DEPTH MORE THAN 24"..... +/- 1"
 - SPACING OF BARS:
 - LONGITUDINAL BARS IN COLUMNS, GIRDERS, BEAMS... +/- 1/4"
 - TIES AND STIRRUPS..... +/- 1"
 - IN SLABS AND WALLS..... +/- 2"
 - LONGITUDINAL LOCATION OF BENDS AND BAR ENDS:
 - AT DISCONTINUOUS END OF MEMBER..... +/- 1/2"
 - ALL OTHER LOCATIONS..... +/- 2"
- ALL REINFORCING SHALL BE CONTINUOUS UNLESS NOTED OTHERWISE. ALL CONTINUOUS BARS SHALL HAVE CLASS "B" SPLICES UNLESS NOTED OTHERWISE.
- PROVIDE CLASS "B" REINFORCING SPLICES. PROVIDE STANDARD 90 DEGREE HOOKS IN ACCORDANCE WITH ACI 318-11, UNLESS NOTED OTHERWISE. STAGGER SPLICES UNLESS SPECIFICALLY NOTED.
- CONTINUOUS TOP AND BOTTOM BARS IN WALLS, BEAMS AND GRADE BEAMS SPLICED AS FOLLOWS:
 - TOP BARS - AT MIDSPAN
 - BOTTOM BARS - OVER SUPPORT

J. REINFORCING STEEL (CONT.)

- DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL", PUBLICATION SP-66, AND "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE," ACI 318, LATEST EDITIONS. PROVIDE DETAILS INDICATING REINFORCING CONTINUITY AT CONSTRUCTION JOINTS.
- REINFORCING BARS SHALL BE FREE OF ALL DELETERIOUS COATINGS WHEN CONCRETE IS PLACED AND THE LENGTH, SIZE, AND LOCATION SHALL BE AS SHOWN ON THE PROJECT PLANS.
- WHERE REQUIRED, PROVIDE DOWELS MATCHING SIZE AND SPACING OF MAIN REINFORCEMENT.
- HOOK UNSCHEDULED TOP AND SIDE REINFORCING BARS AT DISCONTINUOUS END.
- PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AT POSITIONS SHOWN ON PLANS AND DETAILS. ACCESSORIES SHALL BE STAINLESS STEEL IF EXPOSED TO WEATHER.
- PROVIDE STIRRUPS WITH 2-#4 TOP SUPPORT BARS FOR LENGTH OF STIRRUP SPACING WHERE TOP BARS NOT OTHERWISE PROVIDED.
- WELDING OF REINFORCING WILL NOT BE ALLOWED.
- DO NOT RE-BEND ANY BARS.

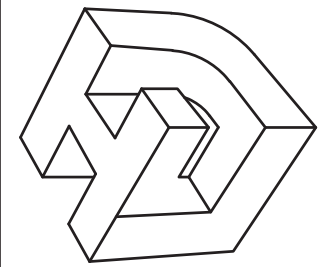
K. STRUCTURAL STEEL

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", DATED APRIL 14, 2010.
- ALL STRUCTURAL STEEL MEMBERS AND CONNECTIONS DESIGNED USING CODES, STANDARDS, AND SPECIFICATIONS IN AISC STEEL CONSTRUCTION MANUAL, FOURTEENTH EDITION.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:

TYPE	F_y , KSI	ASTM
a.) STEEL SHAPES, W AND WT	50	A992
b.) STEEL SHAPES OTHER THAN W AND WT	36	A36
c.) STEEL PLATES	36	A36
d.) STRUCTURAL PIPE	35	A53, GR B
e.) HSS, RECTANGULAR	46	A500, GR C
f.) STRUCTURAL BOLTS	92	A325
g.) THREADED ANCHOR ROD	55	F1554
- PROVIDE ALL WELDING DONE BY QUALIFIED, CURRENTLY CERTIFIED WELDERS IN ACCORDANCE WITH AWS STRUCTURAL WELDING CODE-STEEL D1.1:2010. PROVIDE E70XX ELECTRODES UNLESS NOTED OTHERWISE.
- STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE AISC.
- PROVIDE BEARING TYPE BOLTS AND INSTALL "SNUG-TIGHT".
- MINIMUM WELDS: AISC SPECIFICATION, NOT LESS THAN 3/16" FILLET, CONTINUOUS UNLESS OTHERWISE NOTED.
- ALL GROOVE WELDS TO BE FULL PENETRATION UNLESS NOTED. THE FABRICATOR SHALL SUPPLY BACK-UP PLATES AND EXTENSION TABS FOR ALL COMPLETE PENETRATION WELDS.
- HOT-DIP GALVANIZE STRUCTURAL STEEL MEMBERS/ASSEMBLIES IN ACCORDANCE WITH ASTM A123. MINIMUM COATING THICKNESS GRADE 100. REPAIR ALL DAMAGED GALVANIZED SURFACES AS PER ASTM A780.
- CLEAN RUST, LOOSE MILL SCALE, AND OTHER FOREIGN MATERIALS FROM STEEL WHERE REQUIRED FOR FABRICATION, FITTING UP, OR WELDING.
- NO CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES IS ALLOWED WITHOUT PRIOR REVIEW AND WRITTEN APPROVAL OF THE ENGINEER.
- ALL RIGGING FOR SAFETY CABLES, LIFTING DEVICES AND TEMPORARY BRACING SHALL BE CONNECTED TO ANGLES, PLATES OR OTHER MEMBERS DESIGNED AND DETAILED BY THE STRUCTURAL STEEL SUPPLIER AND SHALL BE SHOP WELDED TO STRUCTURAL MEMBERS. DO NOT PROVIDE HOLES IN STRUCTURAL MEMBERS FOR THE CONNECTION OF RIGGING CABLES. LIFTING DEVICES AND TEMPORARY BRACING UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL ADDED MEMBERS WHERE THEY INTERFERE WITH OTHER WORK OR ARE EXPOSED TO VIEW.
- THE CONTRACTOR AND STRUCTURAL STEEL SUPPLIER SHALL ADD ALL NECESSARY BOLTS, ANCHOR BOLTS, STIFFENER PLATES, STABILIZER PLATES, BRIDGING, BRACING, BEARING SEATS, COLUMN SPLICES, CLOSURES FOR OPENINGS, ETC. AS REQUIRED FOR COMPLIANCE WITH OSHA REGULATIONS.

L. GROUTS

- GROUTS SHALL CONSIST OF PORTLAND CEMENT, WATER, AND SAND. GROUT SHALL BE PREPACKAGED, NON-METALLIC, AND NON-GASEOUS. GROUT SHALL BE NON-SHRINK WHEN TESTED IN ACCORDANCE WITH ASTM-C1107 GRADE B OR C AT A FLUID CONSISTENCY (FLOW CONE) OF 20 TO 30 SECONDS.
- ADMIXTURES KNOWN TO HAVE NO INJURIOUS EFFECTS ON GROUT, STEEL, OR CONCRETE SHALL BE PERMITTED.
- PROPORTIONS OF MATERIALS FOR GROUT SHALL BE BASED UPON RESULTS OF TESTS ON FRESH AND HARDENED GROUT OR PRIOR DOCUMENTED EXPERIENCE WITH SIMILAR MATERIALS AND EQUIPMENT AND UNDER COMPARABLE FIELD CONDITIONS.
- WATER CONTENT SHALL BE THE MINIMUM NECESSARY FOR PROPER PUMPING OF GROUT. WATER TO CEMENTITIOUS MATERIAL RATIO SHALL NOT EXCEED 0.45 BY WEIGHT.
- WATER SHALL NOT BE ADDED TO INCREASE GROUT FLOWABILITY THAT HAS BEEN DECREASED BY DELAYED USE OF THE GROUT.
- GROUT SHALL ACHIEVE A COMPRESSIVE STRENGTH OF 8,000 PSI AT 28 DAYS.

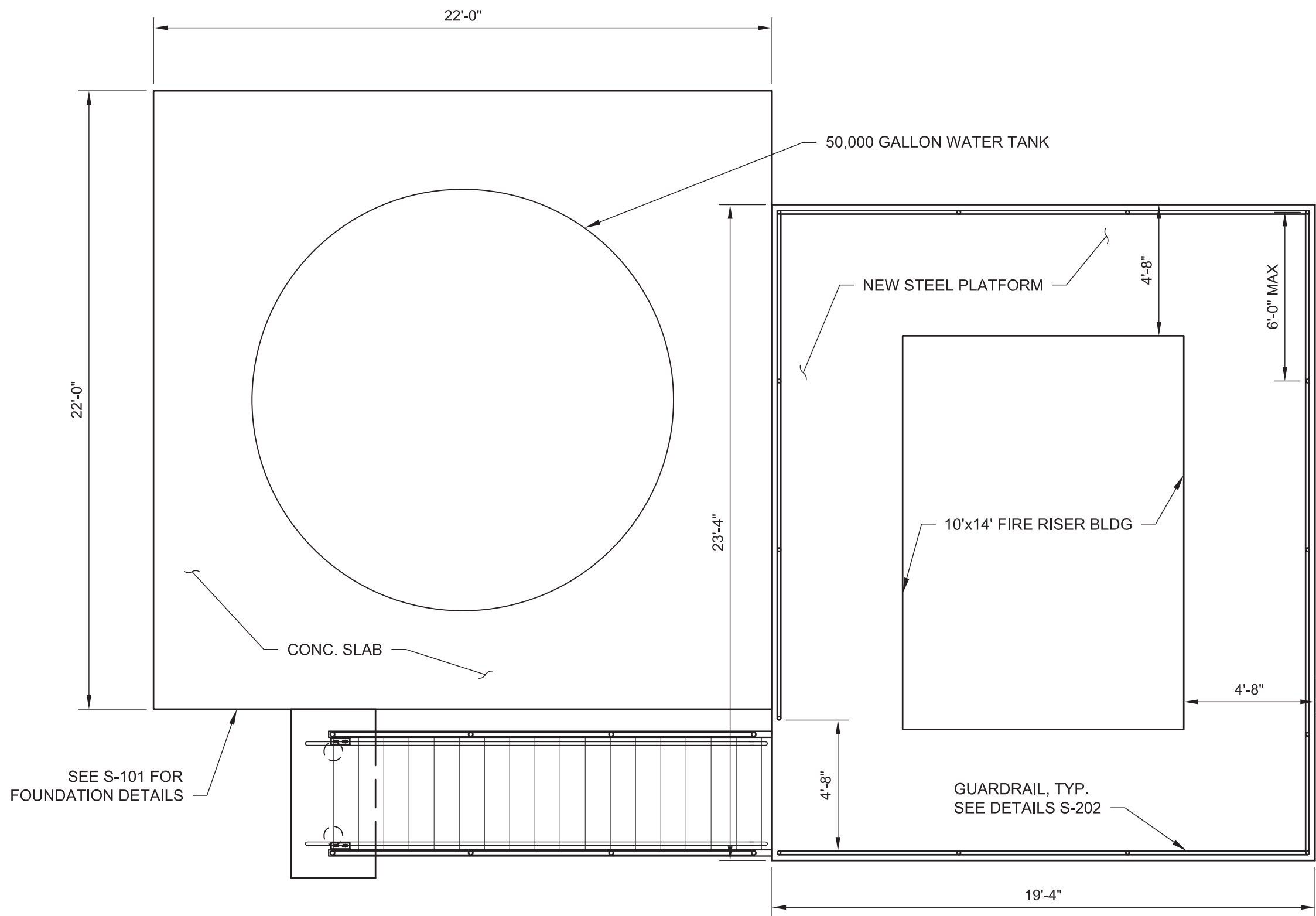


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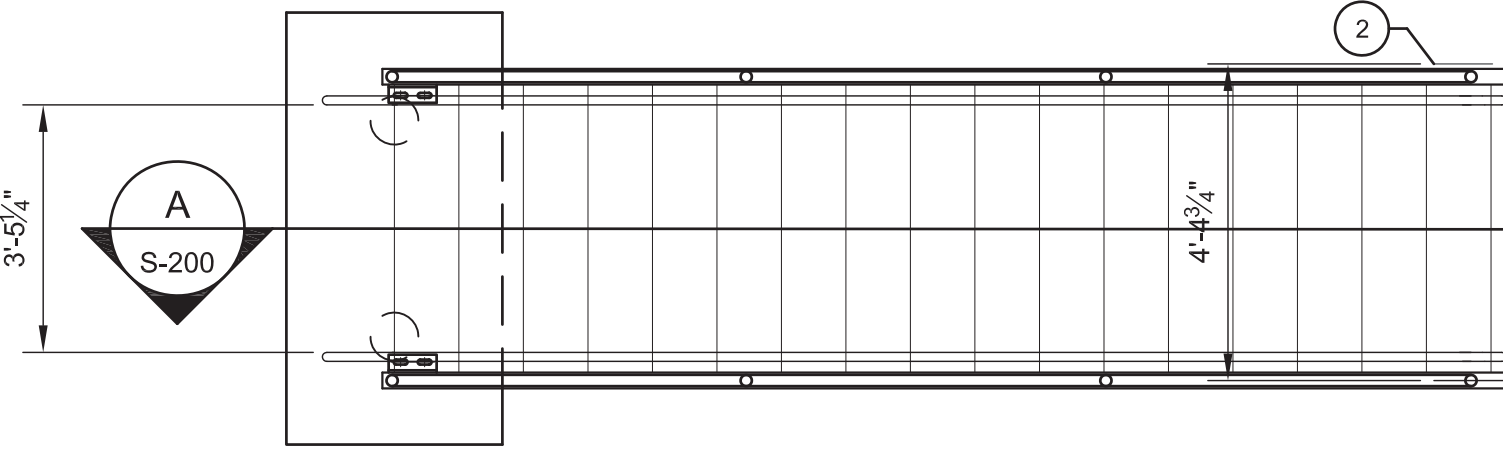
SOUTHSHORE HARBOR - BOAT SLIP FIRE PROTECTION PLANS	THIS SHEET GENERAL NOTES	APPROVED BY L.H.U.
		CHECKED BY L.H.U.
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S-001

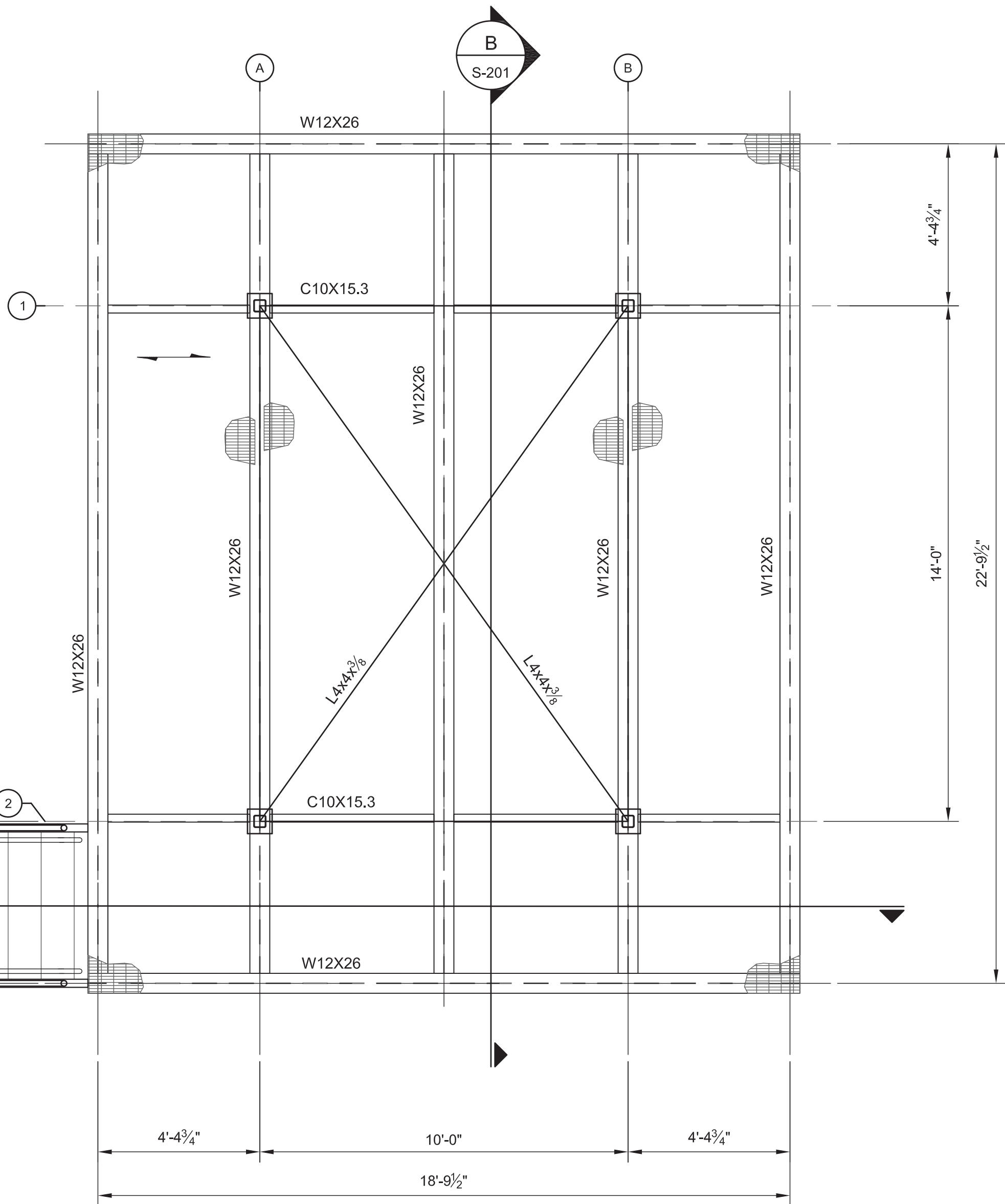


OVERALL PLAN VIEW
SCALE: 1/4" = 1'-0"



PLAN NOTES

1. TOP OF STEEL ELEVATION (BOTTOM OF GRATING) = +15.22' NAVD 88.



FRAMING PLAN
SCALE: 3/8" = 1'-0"

SOUTHSHORE HARBOR - BOAT SLIP
FIRE PROTECTION PLANS

THIS SHEET
PLATFORM FRAMING PLAN

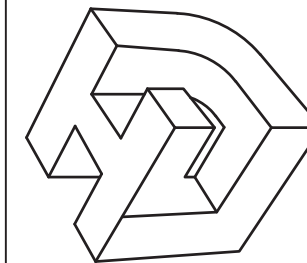
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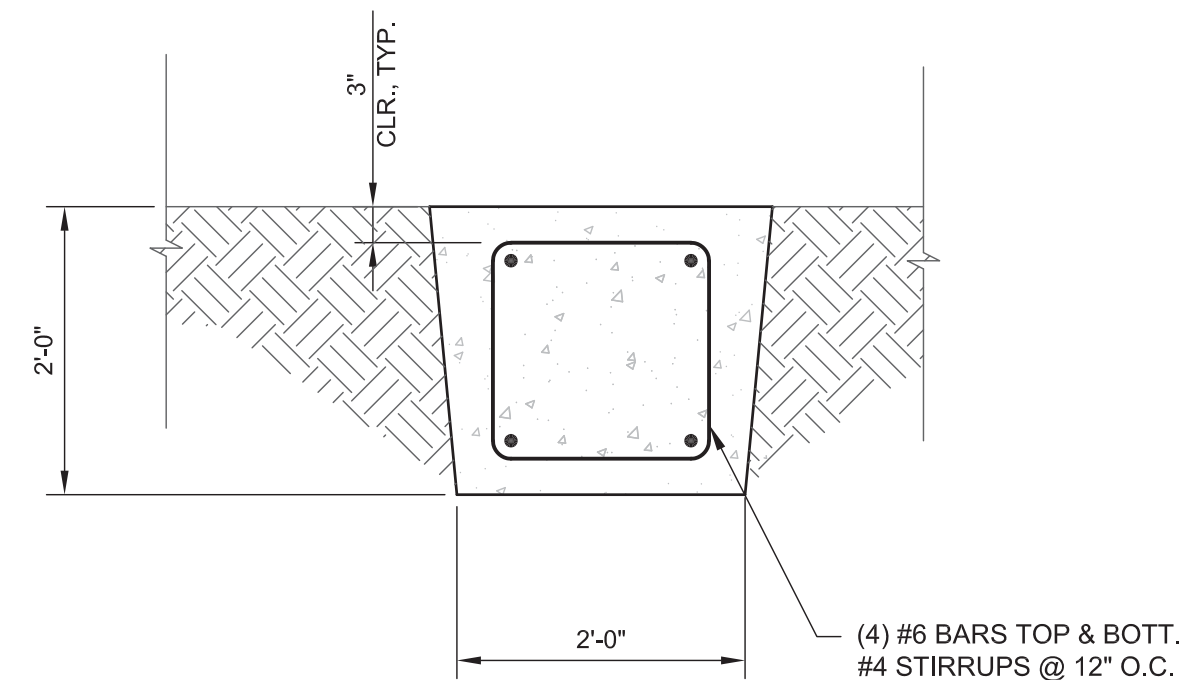
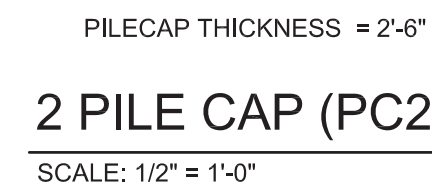
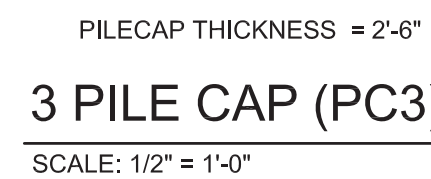
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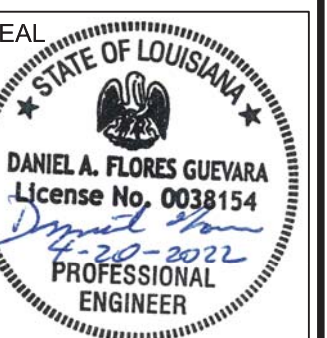
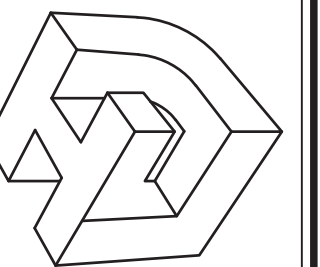
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1. INDICATES 35 FOOT CLASS 5 TREATED TIMBER PILE.

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LHJ

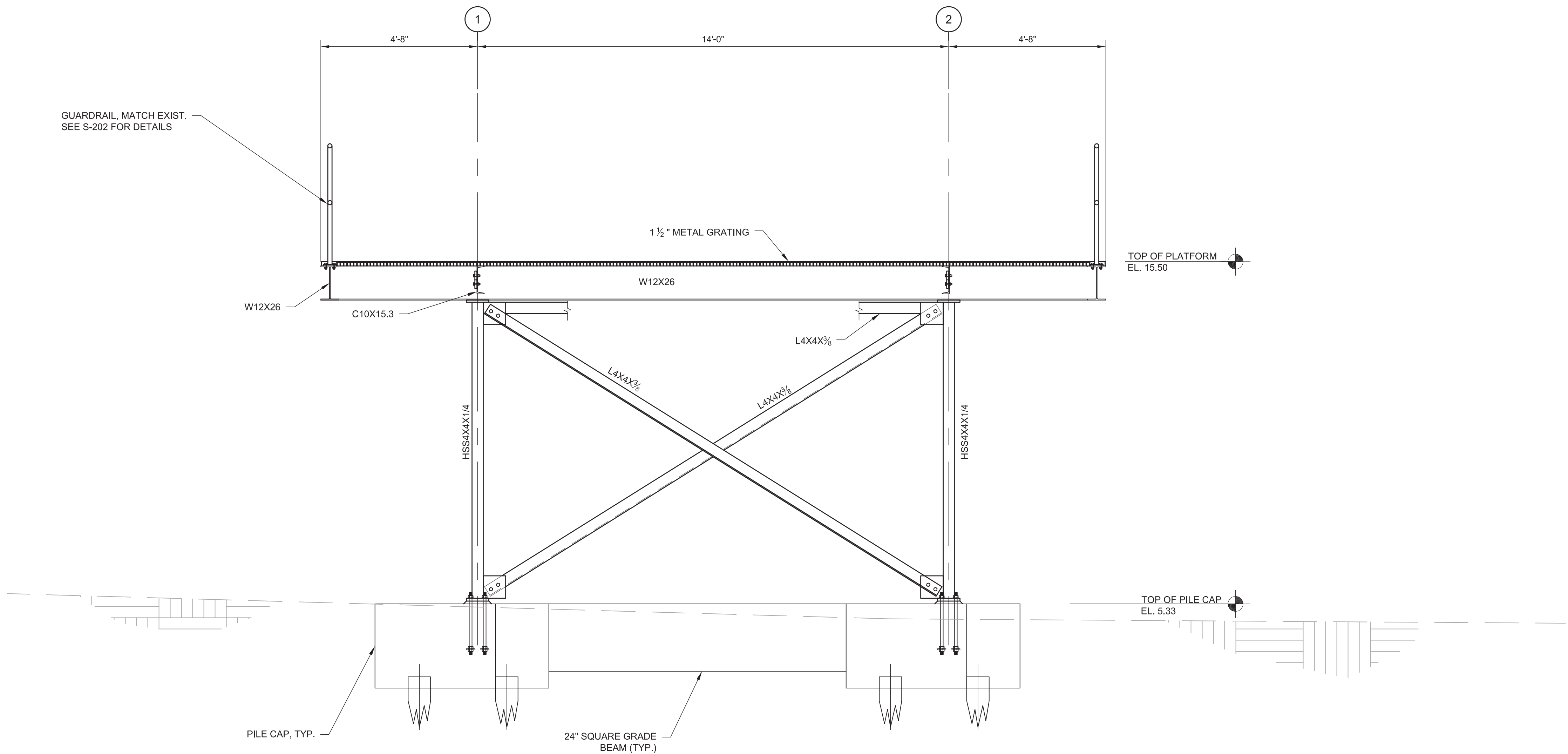
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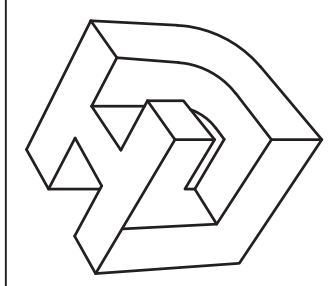
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B TYPICAL ELEVATION
COLUMN LINES A & B
SCALE: 1/2" = 1'-0"

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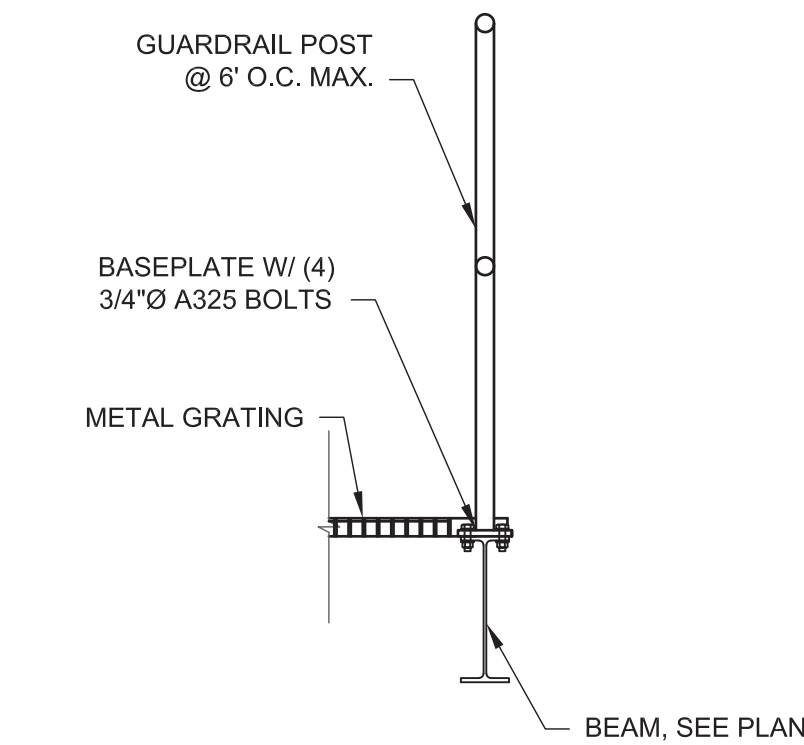


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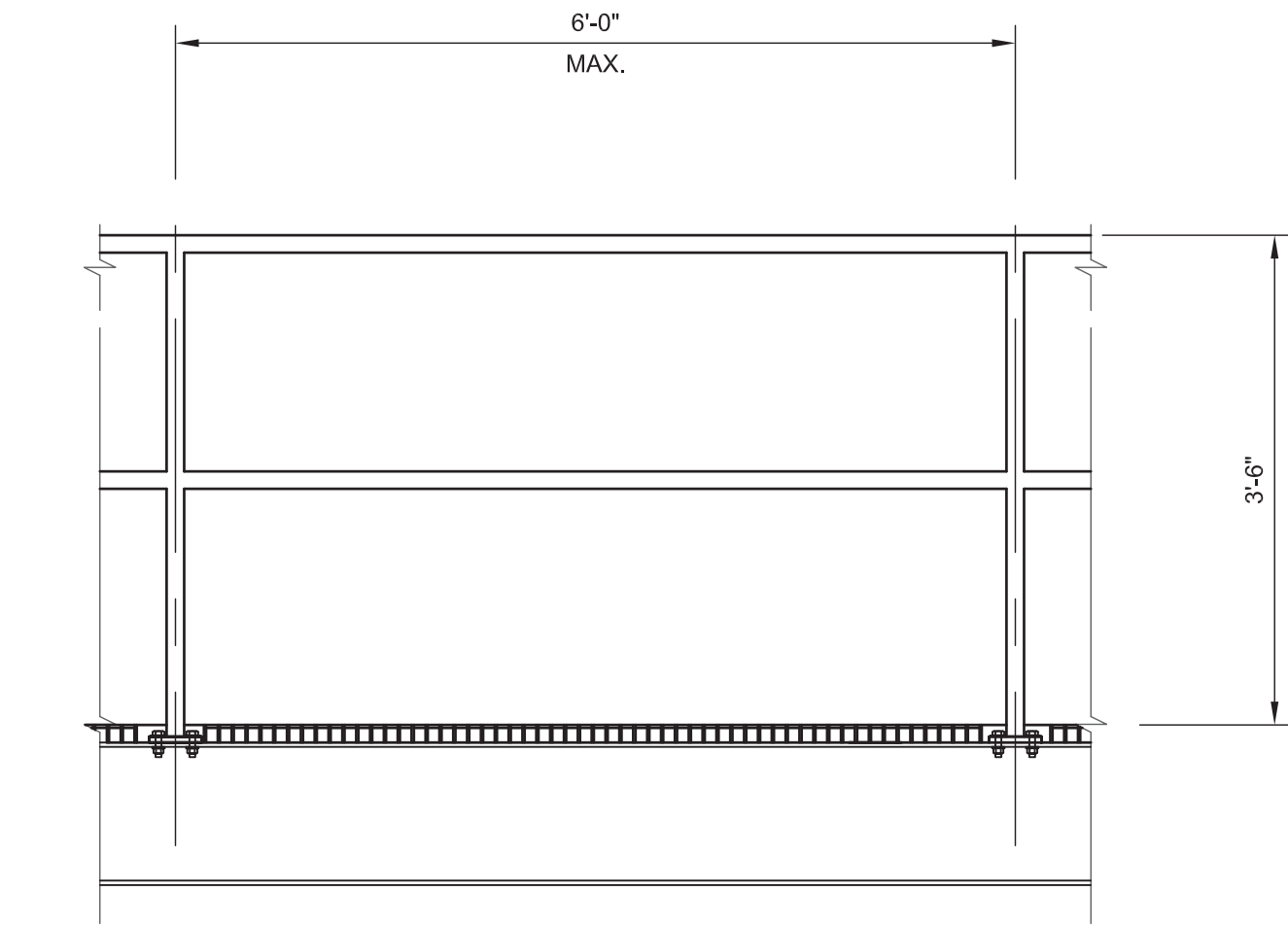
SOUTHSHORE HARBOR - BOAT SLIP FIRE PROTECTION PLANS	
THIS SHEET TYPICAL ELEVATION	APPROVED BY BNC
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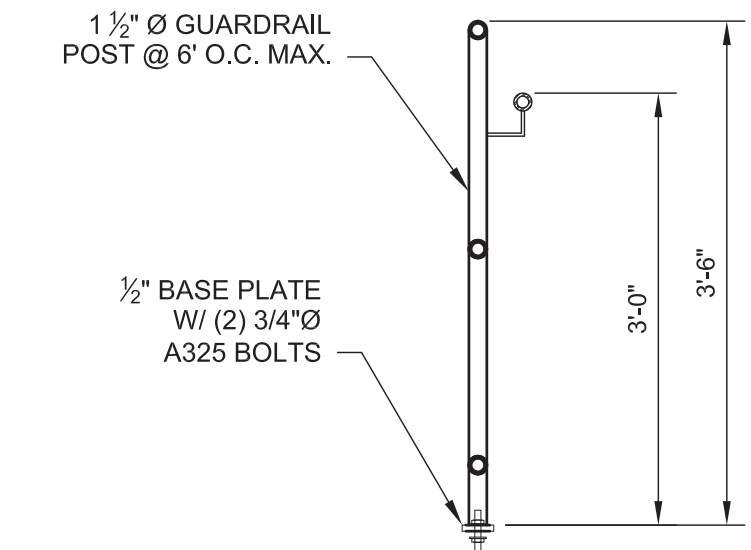


1 TYPICAL GUARDRAIL POST
SCALE: 3/4" = 1'-0"



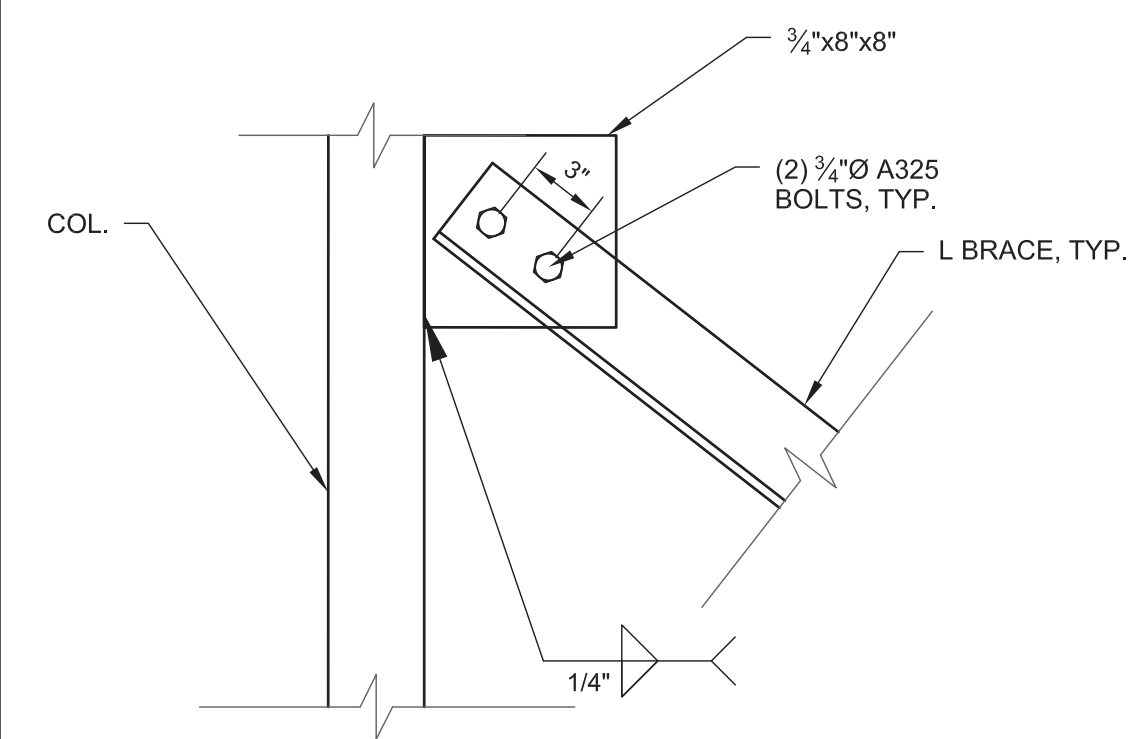
2 TYPICAL GUARDRAIL ELEVATION
SCALE: 3/4" = 1'-0"

GUARDRAIL NOTES:
1. CONTRACTOR SHALL PROVIDE OSHA AND IBC COMPLIANT GUARDRAIL.

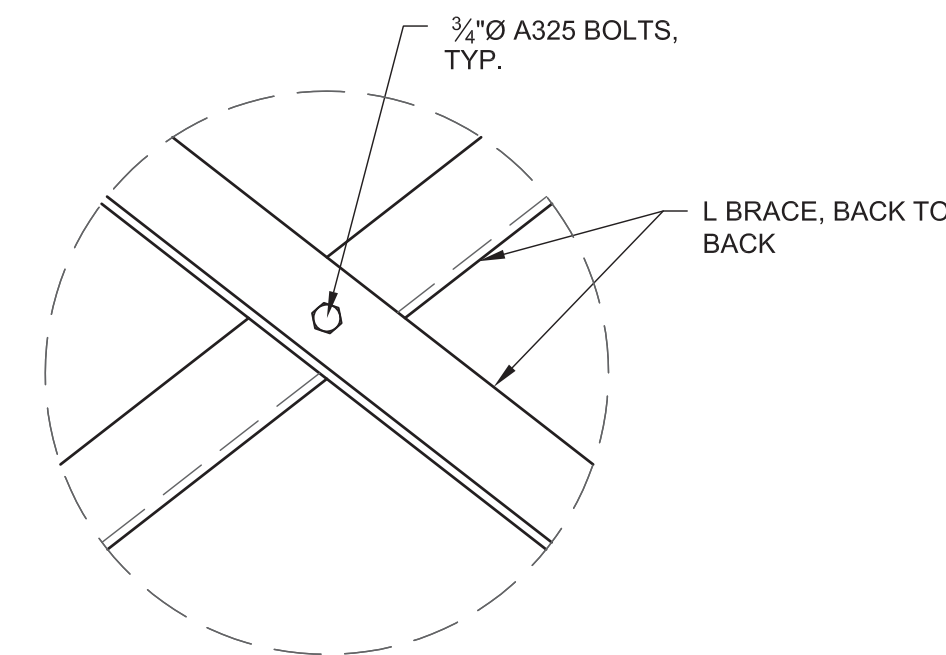


3 TYPICAL HANDRAIL SECTION
SCALE: 3/4" = 1'-0"

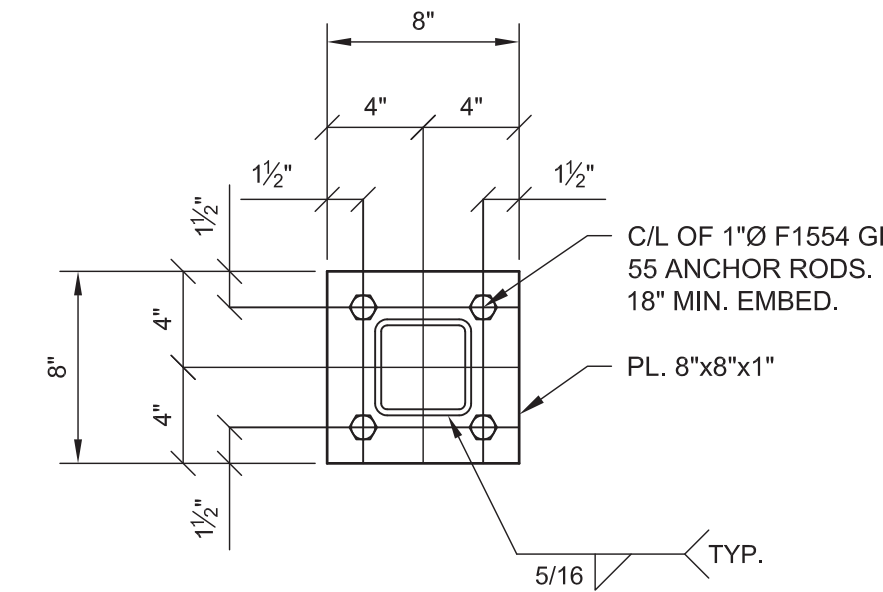
NOTE:
HOT DIP GALVANIZE ALL STEEL ASSEMBLIES AND MEMBERS AFTER FABRICATION



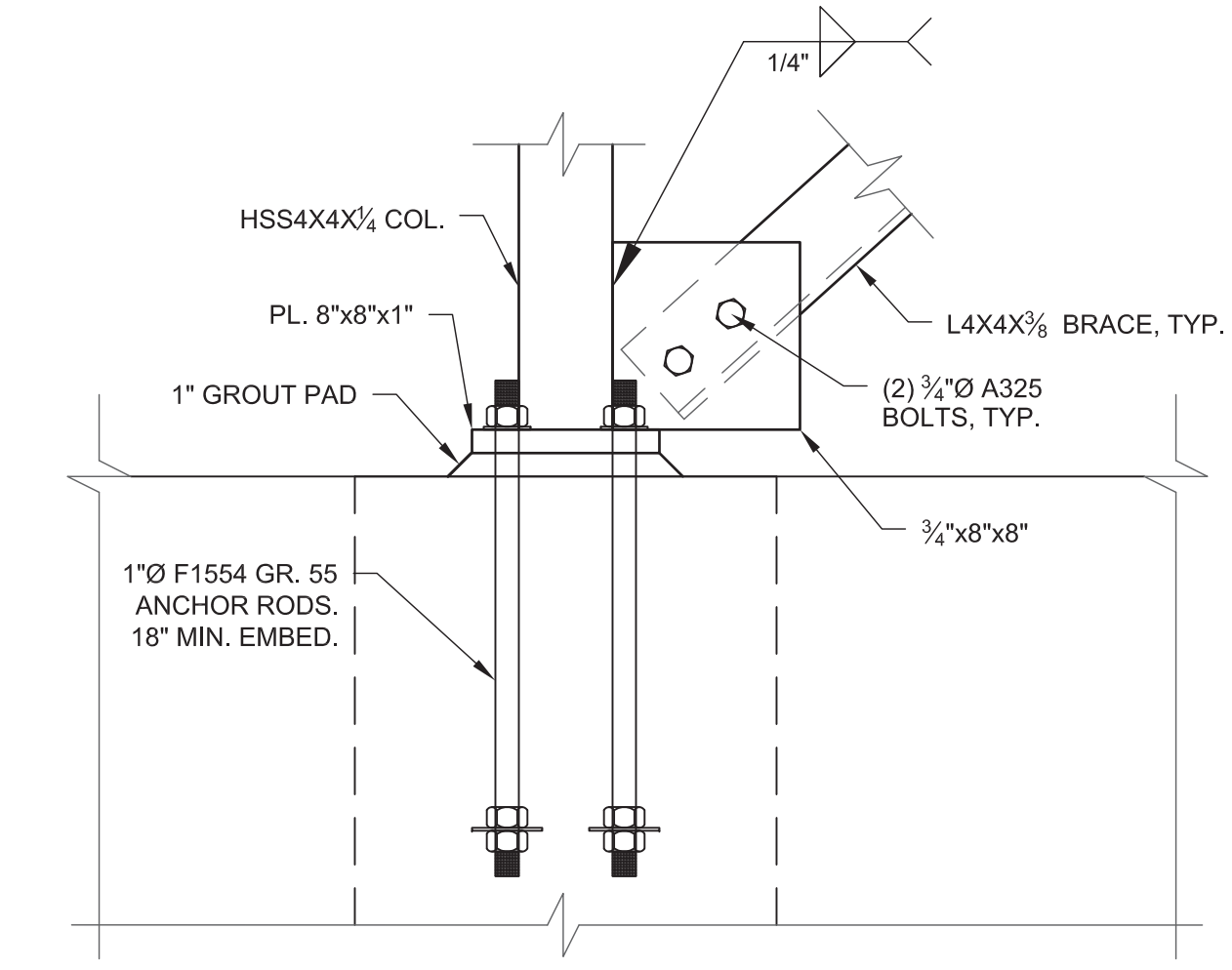
4 TYPICAL X-BRACE CONNECTION
SCALE: 1-1/2" = 1'-0"



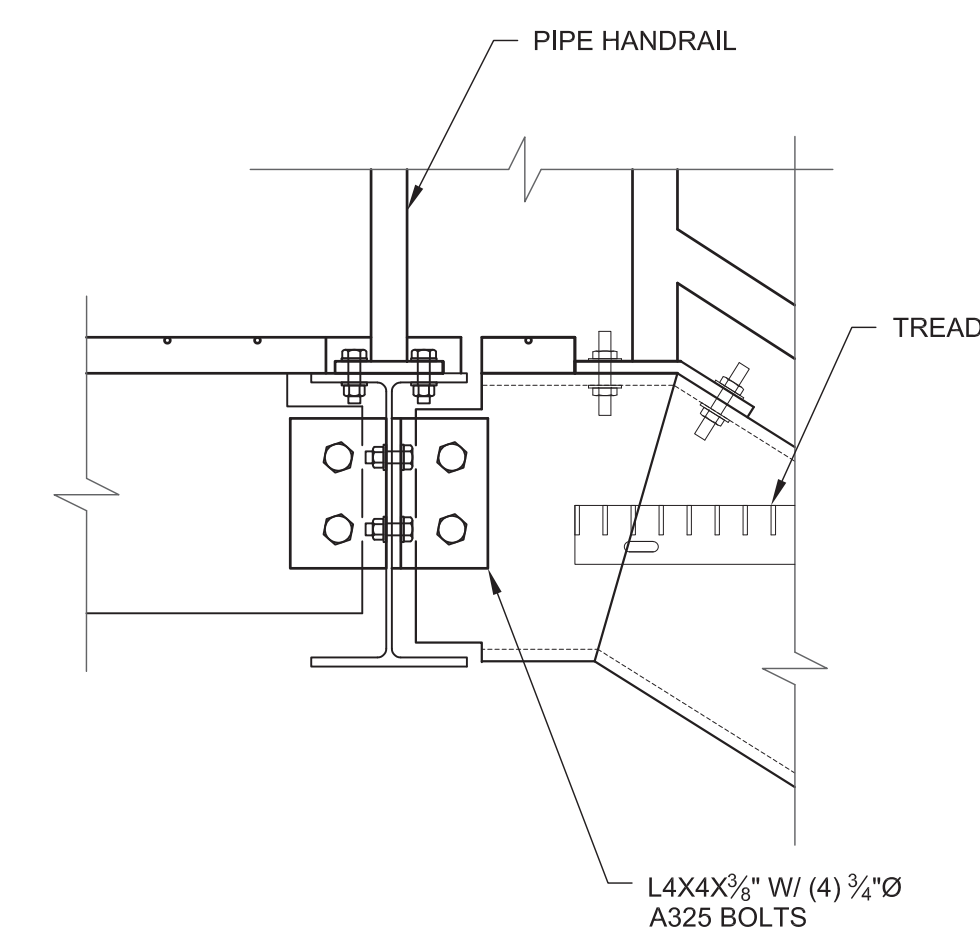
5 TYPICAL X-BRACE CONNECTION
SCALE: 1-1/2" = 1'-0"



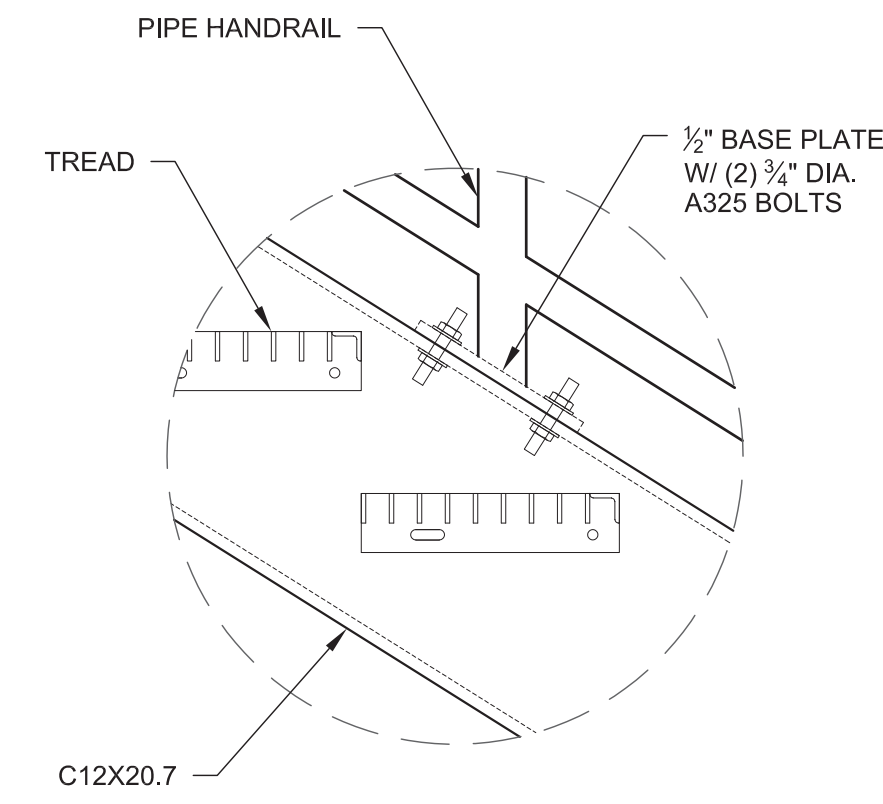
6 TYPICAL COL. BASEPLATE
SCALE: 1-1/2" = 1'-0"



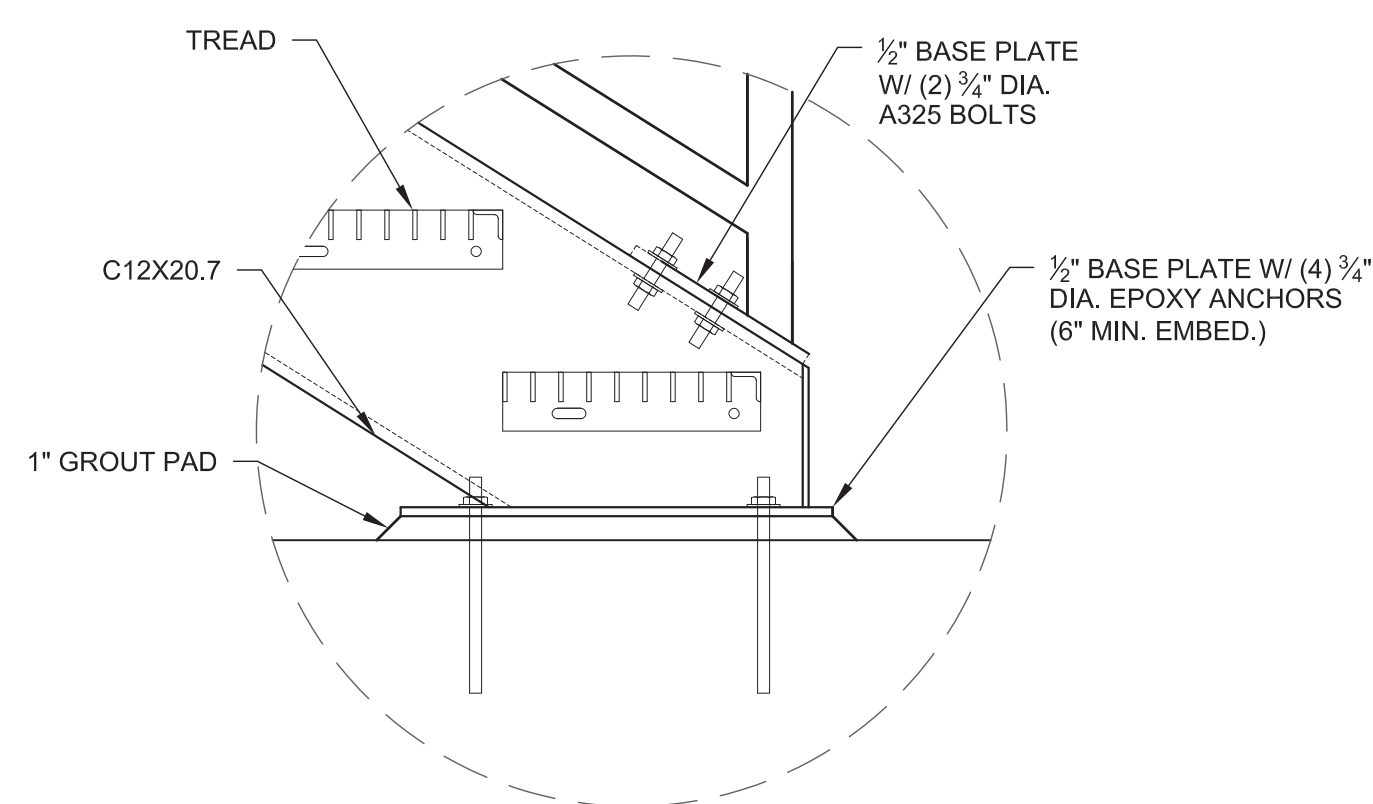
7 TYPICAL COL. BASEPLATE
SCALE: 1-1/2" = 1'-0"



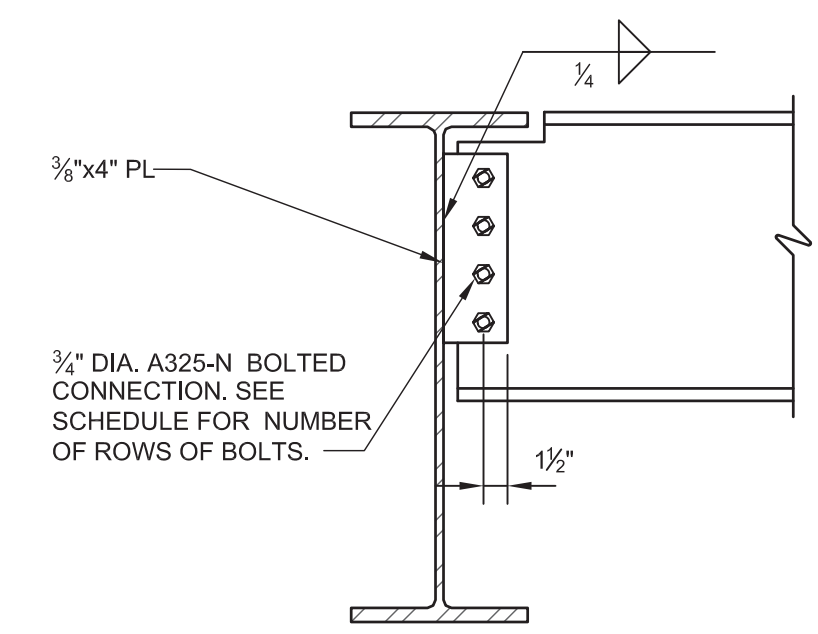
8 DETAIL
SCALE: 1-1/2" = 1'-0"



9 DETAIL
SCALE: 1-1/2" = 1'-0"



10 DETAIL
SCALE: 1-1/2" = 1'-0"



11 TYP. BOLTED CONNECTION DETAILS
NOT TO SCALE

SINGLE PLATE SHEAR CONNECTION TABLE			
BEAM SIZE	PLATE t x w x L	No. OF BOLTS	REMARKS
W12	3/8"x4 1/4"x9"	(3) 3/4"Ø	ALL BOLTS A325N STD. USE STANDARD SIZE HOLES. USE E70XX ELECTRODES
C10	3/8"x4 1/4"x9"	(3) 3/4"Ø	

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FIRE PROTECTION PLANS

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DETAILS

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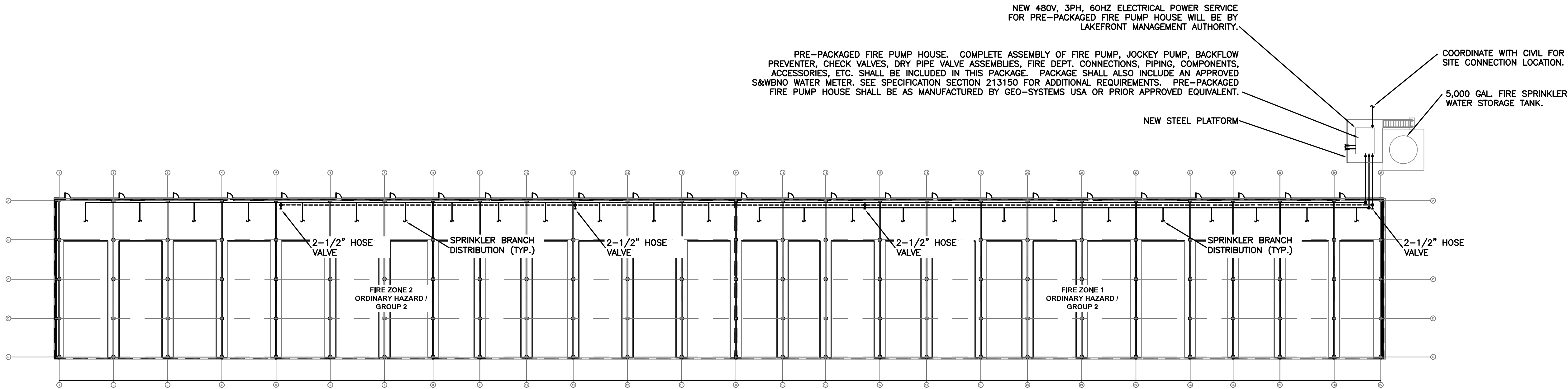
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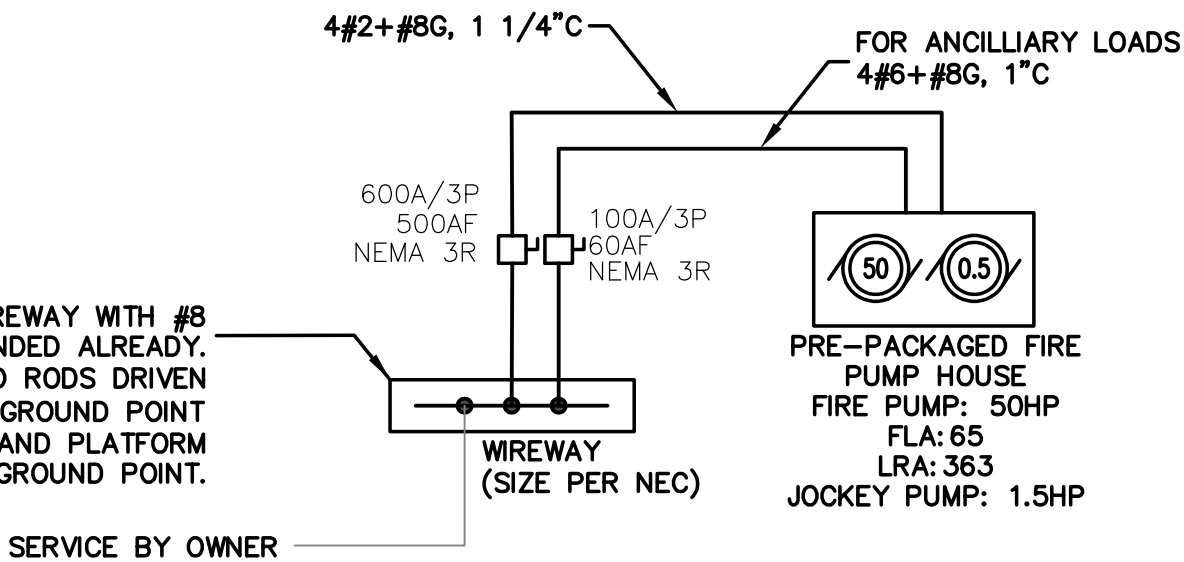


 **FIRE PROTECTION PLAN**
SCALE: 1/32" = 1'-0"

ELECTRICAL ONE-LINE NOTE

ELECTRICAL DESIGN FOR FIRE PUMP HOUSE SHOWN ARE BASED OFF A 50HP FIRE PUMP, A 1 1/2 HP JOCKEY PUMP, AND 25KW OF ANCILLARY LOADS. CONTRACTOR SHALL INCREASE WIRE SIZES AS NECESSARY TO FACILITATE FINAL PRODUCT SELECTION AND MEET ALL NEC 230 AND NEC 695 REQUIREMENTS

BOND NEUTRAL AND GROUND IN WIREWAY WITH #8 IF SERVICE IS NOT BONDED ALREADY. PROVIDE (3) 3/4" X 10' CU GROUND RODS DRIVEN 10' INTO GROUND AND CONNECT TO GROUND POINT IN WIREWAY. BOND COLD WATER PIPE AND PLATFORM STEEL WITH #8 TO GROUND POINT.



ELECTRICAL ONE-LINE DIAGRAM

SCALE: N.T.S.

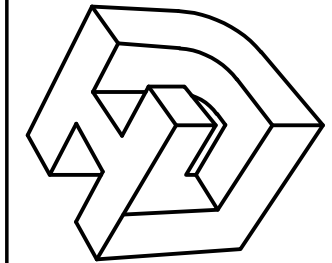


HUSEMAN
& Associates

MECHANICAL ■ ELECTRICAL ■ PLUMBING ■ FIRE PROTECTION
3501 N CAUSEWAY BLVD. (504) 456-3119
SUITE 710, METAIRIE, LA 70002 FAX (504) 456-3122
Job No. 2200701 Designed By PG/JC
Drawn By PG Checked By JL/JC

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