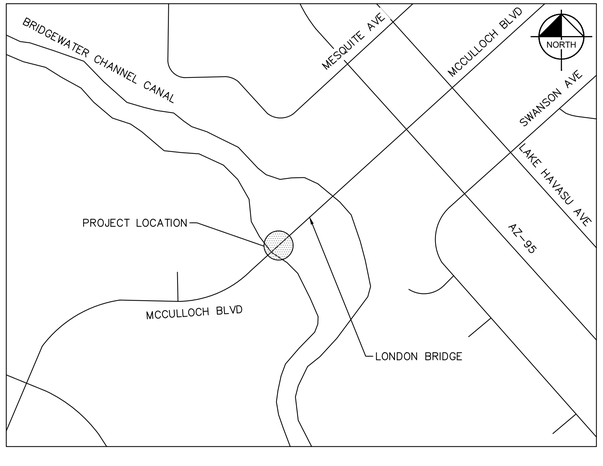
LAKE HAVASU CITY
LONDON BRIDGE
PIER D REPAIRS

DRAWING INDEX		
SHEET NUMBER	SHEET DESCRIPTION	SHEET TITLE
1	CV01	COVER SHEET
2	GN01	GENERAL NOTES AND STAGING PLAN
3	DP01	DEMOLITION
4	DT01	REPAIR DETAILS

PREPARED BY:

Kimley»Horn



LOCATION MAP
SCALE: N.T.S.

PROJECT ENGINEER

KIMLEY-HORN
7740 N 16TH STREET #300
PHOENIX, AZ 85020
PHONE: 602-944-5500

CONTACT: ARNOLDO ARTILES, P.E.

CITY COUNCIL

CAL SHEEHY	MAYOR
DAVID LANE	VICE MAYOR
JENI COKE	COUNCIL MEMBER
JIM DOLAN	COUNCIL MEMBER
MICHELE LIN	COUNCIL MEMBER
NANCY CAMPBELL	COUNCIL MEMBER
CAMERON MOSES	COUNCIL MEMBER

PROJECT MANAGER

JASON HART, PROJECT MANAGER

UTILITY CONTACTS

LAKE HAVASU CITY (WASTEWATER)	(928) 855-3999
LAKE HAVASU CITY (WATER)	(928) 855-2618
SUDDEN LINK	(928) 855-9855
FRONTIER COMMUNICATION	(928) 358-1977
UNISOURCE ENERGY SERVICES (GAS)	(928) 505-7002
UNISOURCE ENERGY SERVICES (ELECTRIC)	(928) 505-7002

ARIZONA BLUE STAKE
CALL TWO WORKING DAYS BEFORE YOU DIG
Dial 811 or
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

Kimley»Horn

7740 NORTH 16TH STREET #300, PHOENIX, ARIZONA 85020
PHONE: 602-944-5500| WWW.KIMLEY-HORN.COM

NO.	REVISIONS / SUBMISSIONS	DATE
#	-	-
#	-	-
#	-	-
#	-	-

LAKE HAVASU CITY
LONDON BRIDGE
PIER D REPAIRS

Designed by:	ATL
Drawn by:	ATL
Checked by:	NLM
Date:	6/19/23
Dwg scale:	-

COVER SHEET

BID DOCUMENTS

Sheet Number:
CV01
Sheet 1 of 4

GENERAL NOTES

DESIGN AND CONSTRUCTION SPECIFICATIONS

DESIGN SPECIFICATIONS – 2018 INTERNATIONAL BUILDING CODE (IBC)

CONSTRUCTION SPECIFICATIONS – ARIZONA DEPARTMENT OF TRASNPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2021 EDITION.

DOCUMENTS AND LIMITATIONS

THE DRAWINGS, CALCULATIONS, SPECIFICATIONS, AND REPRODUCTIONS, RELATING TO THE STRUCTURAL PART OF THE PROJECT, ARE INSTRUMENTS OF SERVICE TO BE USED ONLY FOR THIS PROJECT.

IT IS UNDERSTOOD THAT THE STRUCTURAL ENGINEER OF RECORD MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, AS TO FINDINGS, DESIGNS, RECOMMENDATIONS, SPECIFICATIONS, OPINION, OR PROFESSIONAL ADVICE, EXCEPT THAT THESE INSTRUMENTS OF SERVICE HAVE BEEN PREPARED IN ACCORDANCE WITH THE CURRENT GENERALLY ACCEPTED PROFESSIONAL ENGINEER PRACTICES.

ALL NON-STRUCTURAL ELEMENTS INDICATED ON THE STRUCTURAL DRAWINGS HAVE BEEN SHOWN IN GENERAL TO THE RELATIONSHIP TO THE STRUCTURAL ELEMENTS. ACCORDINGLY, THEY SHALL NOT BE ASSUMED TO BE ACCURATE AND REFERENCE MUST BE MADE TO THE APPROPRIATE CONSULTANT(S) PLANS AND SPECIFICATIONS.

INFORMATION RELATING TO AS-DESIGNED CONDITIONS SHOWN HAVE BEEN REPRODUCED FROM AVAILABLE AS-BUILTS AND ARE FOR REFERENCE ONLY. ACTUAL CONDITIONS MAY DIFFER FROM THE INFORMATION SHOWN. CONTRACTOR IS TO VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

CONSTRUCTION SAFETY

IT IS UNDERSTOOD THAT THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK ON THE PROJECT. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THE PERSONS AND PROTECT THEM AGAINST INJURY: LIKEWISE, THE CONTRACTOR SHALL PROTECT ALL PROPERTY AGAINST DAMAGE OR LOSS.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY.

THE CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR THE SAFETY AND PROTECTION OF THE WORK SHALL CONTINUE UNTIL SUCH TIME AS THE WORK IS SATISFACTORILY COMPLETED, AND THE ENGINEER HAS ISSUED A NOTICE TO THAT EFFECT TO THE OWNER AND THE CONTRACTOR.

DIMENSIONS

BEFORE STARTING WORK, CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE SITE, AND REPORT ANDY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.

THE CONTRACTOR, BEFORE STARTING ANY WORK, SHALL CHECK ALL DIMENSIONS GIVEN ON THE STRUCTURAL DRAWINGS. IF ANY DISCREPANCY IS NOTICED, IT SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER, AND WORK SHALL NOT COMMENCE UNTIL INSTRUCTIONS ARE RECEIVED FROM THE ENGINEER.

THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR HIS INSTRUCTIONS FOR ANY DIMENSION NOT GIVEN ON OR OBTAINABLE FROM THE DRAWINGS. THE CONTRACTOR SHALL NOT USE SCALE TO OBTAIN OR VERIFY ANY DIMENSION SHOWN ON THESE DRAWINGS.

SHOP DRAWINGS

REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS LIMITED TO COMPLIANCE OF THE COMPLETED STRUCTURE WITH THE DESIGN CONCEPT AND INFORMATION GIVEN IN THE PROJECT DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DIMENSIONS, QUANTITIES, PERFORMANCE, SAFETY, COORDINATION WITH OTHER WORKS, AND ALL OTHER REQUIREMENTS OF THE PROJECT DOCUMENTS. REVIEW DOES NOT AUTHORIZE CHANGES TO CONTRACT.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR HIS REVIEW IN ACCORDANCE WITH A SCHEDULE OF SUBMITTALS ACCEPTABLE TO THE ENGINEER. THESE SHOP DRAWINGS SHALL HAVE BEEN CHECKED BY, AND STAMPED WITH THE APPROVAL OF THE CONTRACTOR, AND IDENTIFIED AS THE ENGINEER MAY REQUIRE. THE DATA SHOWN ON THE SHOP DRAWINGS SHALL BE COMPLETE WITH RESPECT TO DIMENSIONS, DESIGN CRITERIA, AND DULY SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN ARIZONA (WHERE APPLICABLE).

DE-WATERING PROCESS

EQUIPMENT SIZE WILL BE LIMITED TO EXISTING HATCH OPENING DIMENSIONS. NO MODIFICATIONS MAY BE MADE TO THESE OPENINGS. MODIFICATIONS TO THE EXISTING RAMPS WITHIN THE STRUCTURE MAY BE UNDERTAKEN BY THE CONTRACTOR AS NECESSARY TO ACCOMMODATE PROPOSED EQUIPMENT AND AS APPROVED BY THE ENGINEER.

A DE-WATERING PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK. THE PLAN SHALL INCLUDE EQUIPMENT TO BE USED, A TRAFFIC CONTROL PLAN, A GENERAL OUTLINE OF WORK, INCLUDING APPROACHES TO ACCESSING THE BRIDGE, TRANSPORTING AND POSITIONING THE EQUIPMENT, AND A WORK SCHEDULE.

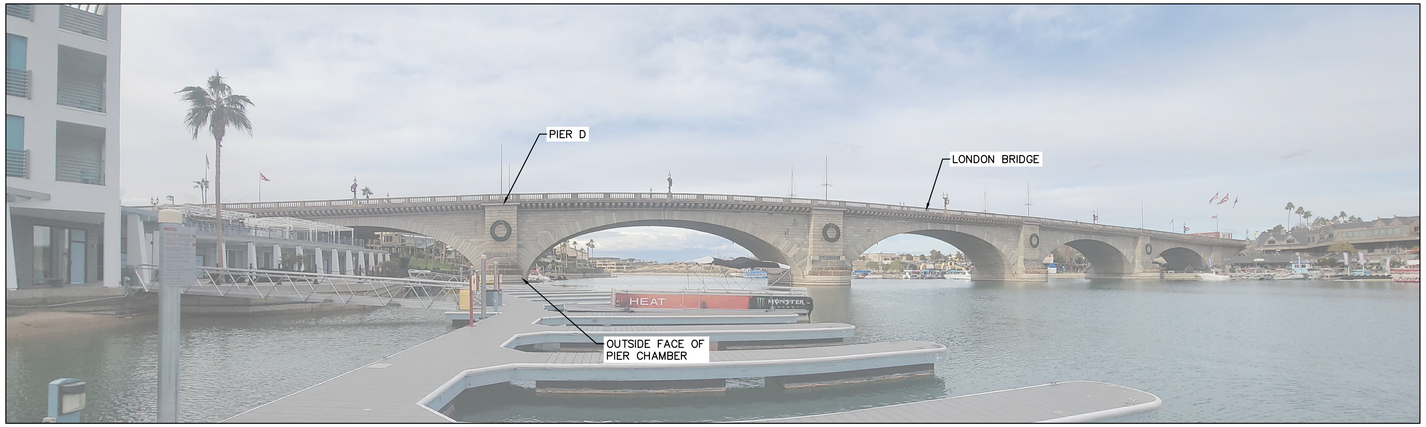
WATER PUMPED FROM THE BEARING CHAMBER MAY NOT BE DISCHARGED INTO THE COLORADO RIVER. WATER SHALL BE CONTAINED AND TRANSPORTED TO A RECEIVING FACILITY. COORDINATION WITH THE RECEIVING FACILITY IS THE RESPONSIBILITY OF THE CONTRACTOR.

PUMP EQUIPMENT SHALL REMAIN ON-SITE TO PROVIDE CONTINUOUS WATER REMOVAL UNTIL THE APPROPRIATE REPAIRS CAN BE MADE TO THE PIER D BEARING CHAMBER.

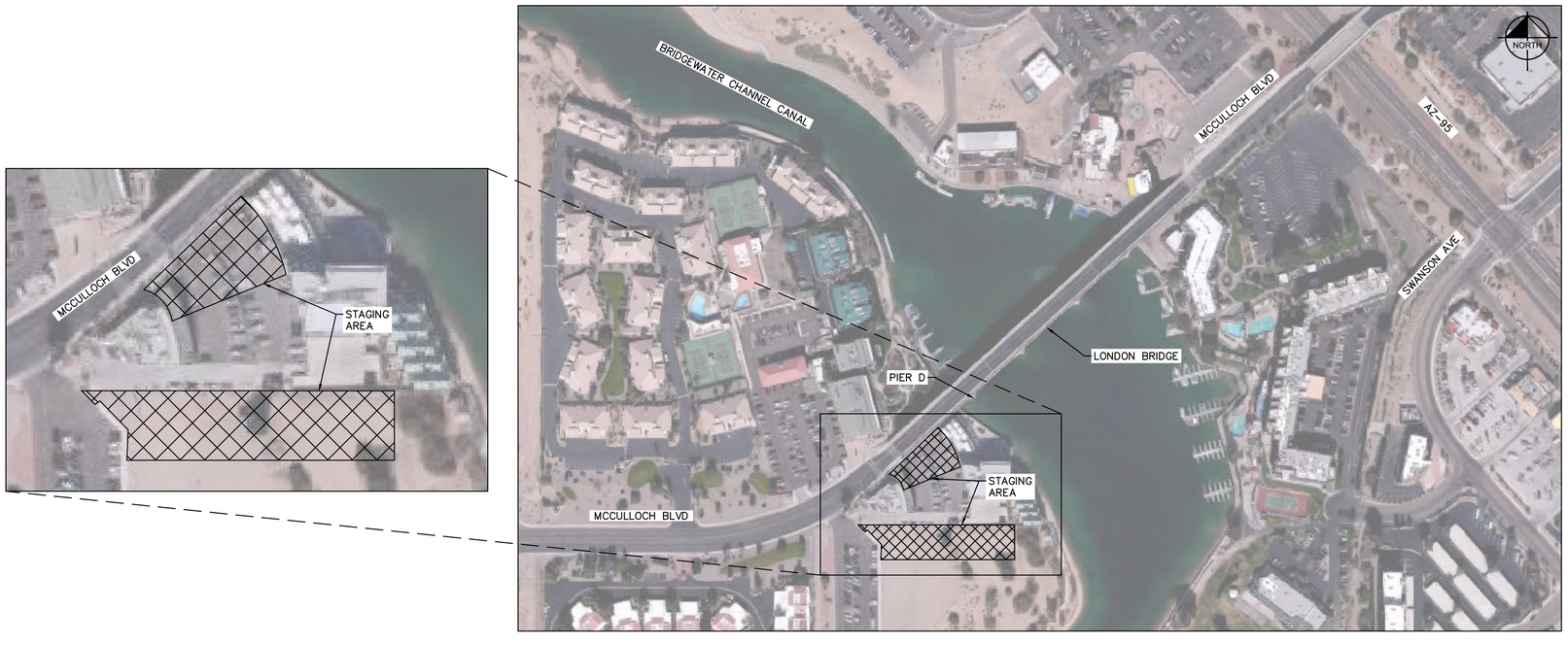
THE ENGINEER SHALL BE NOTIFIED A MINIMUM OF ONE WEEK PRIOR TO THE SCHEDULED DE-WATERING SO THAT AN INSPECTION CAN BE MADE AFTER THE WATER IS REMOVED. THIS INSPECTION IS INTENDED TO VERIFY THE APPROACHES OUTLINED IN THE BEARING CHAMBER REPAIR DETAILS.

ACRONYMS/ABBREVIATIONS

MIN..... MINIMUM
NTS..... NOT TO SCALE
TYP..... TYPICAL



BRIDGE ELEVATION LOOKING NORTH
NTS



STAGING PLAN
NTS

ARIZONA BLUE STAKE
CALL TWO WORKING DAYS BEFORE YOU DIG
Dial 811 or
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

Kimley»Horn

7740 NORTH 16TH STREET #300, PHOENIX, ARIZONA 85020
PHONE: 602-944-5500 WWW.KIMLEY-HORN.COM

LAKE HAVASU CITY, ARIZONA • INCORPORATED 1978 •

NO.	REVISIONS / SUBMISSIONS	DATE
#	-	-
#	-	-
#	-	-
#	-	-

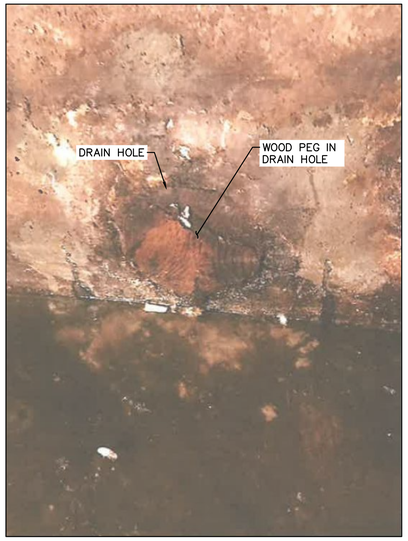
LAKE HAVASU CITY
LONDON BRIDGE
PIER D REPAIRS

Designed by:	ATL
Drawn by:	ATL
Checked by:	NLM
Date:	6/19/23
Dwg scale:	-

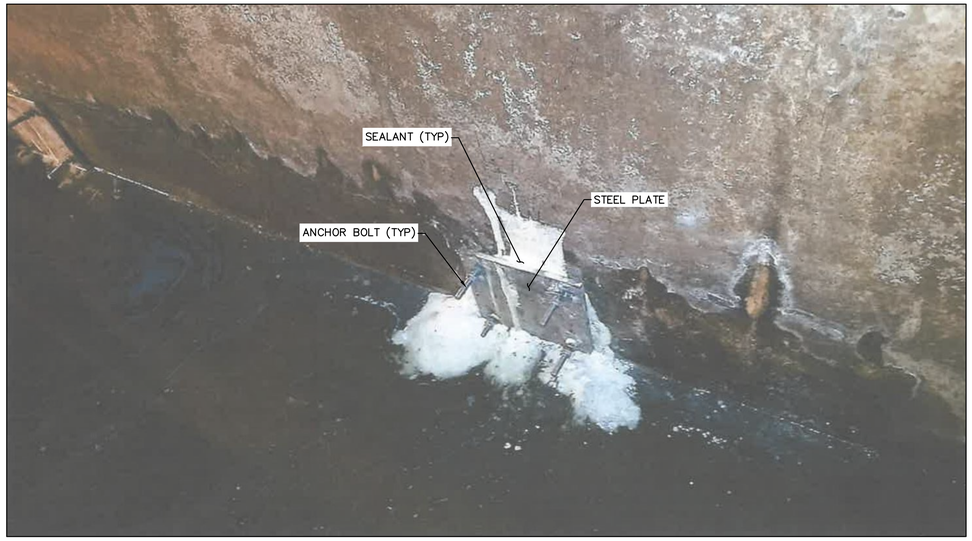
GENERAL NOTES AND STAGING PLAN

BID DOCUMENTS

Sheet Number:
GN01
Sheet 2 of 4



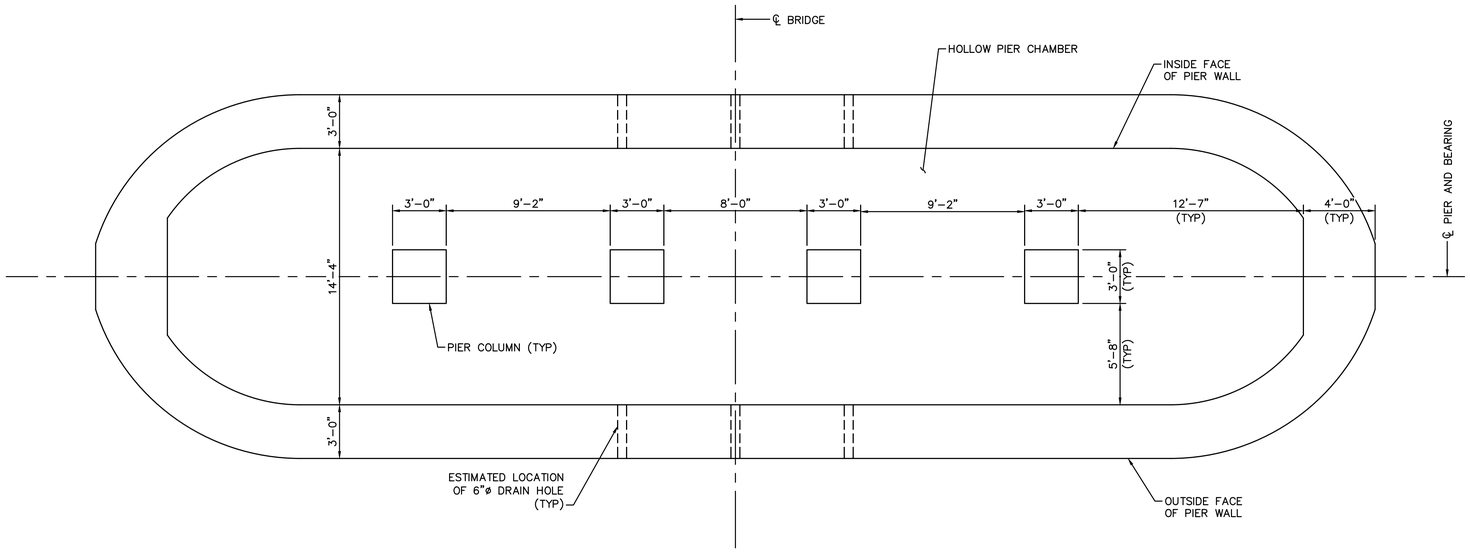
TYPICAL WOOD PEG IN HOLE
NTS



TYPICAL PREVIOUS DRAIN HOLE REPAIR
NTS

REMOVAL OF PREVIOUS DRAIN HOLE REPAIR

1. REMOVE ANCHORS AND STEEL PLATE.
2. REMOVE WOOD PEG.
3. REMOVE PREVIOUS SEALANT MATERIAL AND CLEAN DRAIN HOLE.



PIER PLAN VIEW AT PIER FLOOR
SCALE: ¼" = 1'-0"

ARIZONA BLUE STAKE
CALL TWO WORKING DAYS BEFORE YOU DIG
Dial 811 or
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

Kimley»Horn

7740 NORTH 16TH STREET #300, PHOENIX, ARIZONA 85020
PHONE: 602-944-5500 WWW.KIMLEY-HORN.COM

LAKE HAVASU CITY, ARIZONA • INCORPORATED 1978 •

NO.	REVISIONS / SUBMISSIONS	DATE
#	-	-
#	-	-
#	-	-
#	-	-

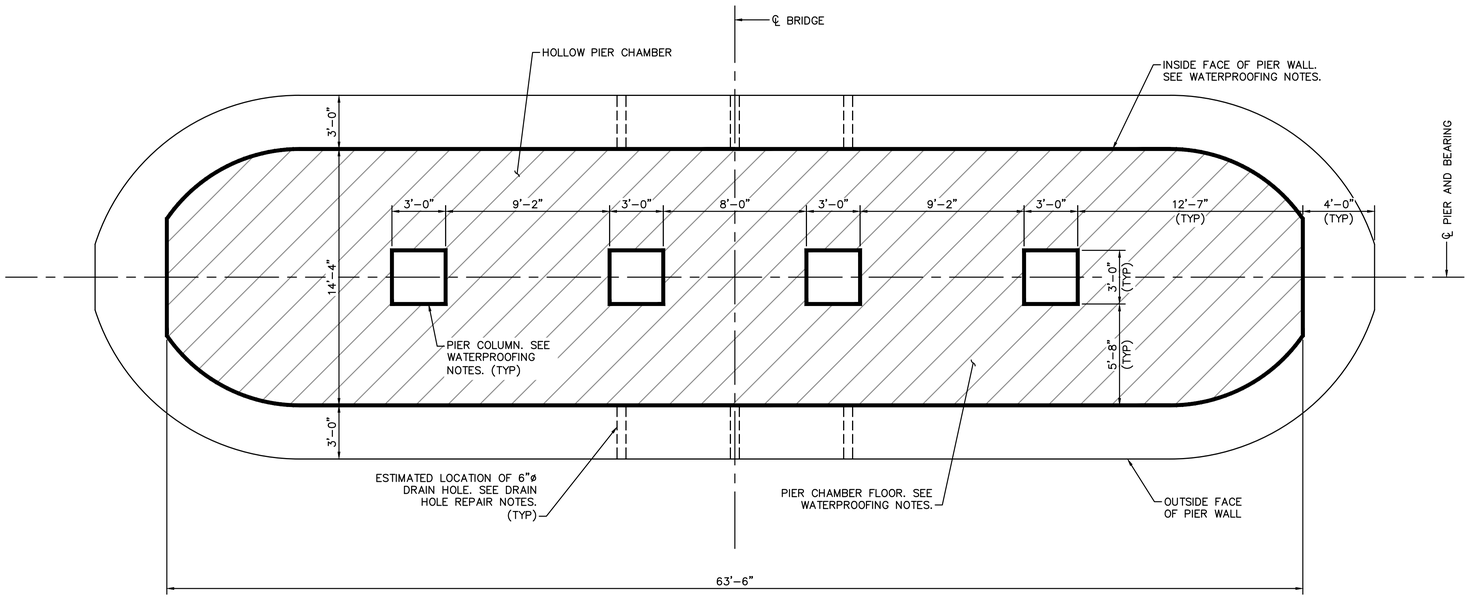
LAKE HAVASU CITY
LONDON BRIDGE
PIER D REPAIRS

Designed by:	ATL
Drawn by:	ATL
Checked by:	NLM
Date:	6/19/23
Dwg scale:	-

DEMOLITION

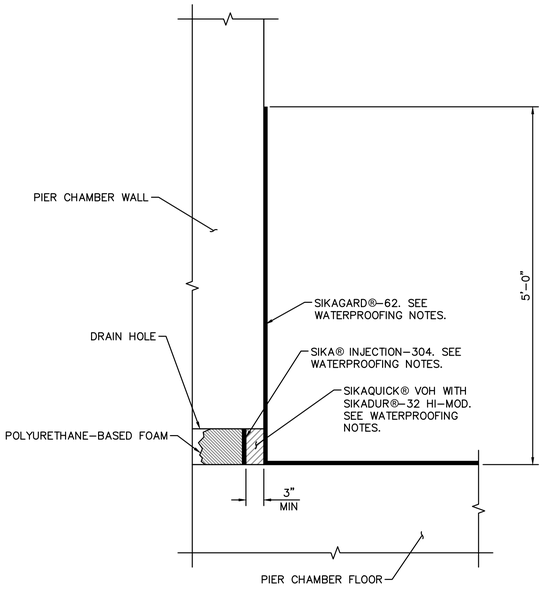
BID DOCUMENTS

Sheet Number:
DP01
Sheet 3 of 4



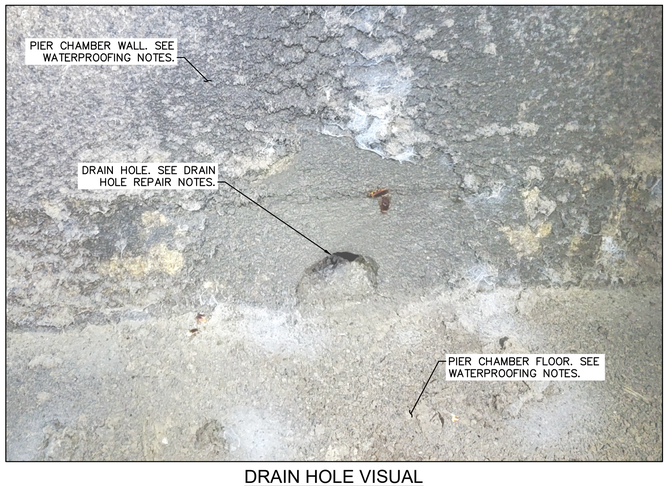
PIER PLAN VIEW

SCALE: ¼" = 1'-0"



DRAIN HOLE AND WATERPROOFING REPAIR DETAIL

SCALE: 1" = 1'-0"



DRAIN HOLE VISUAL

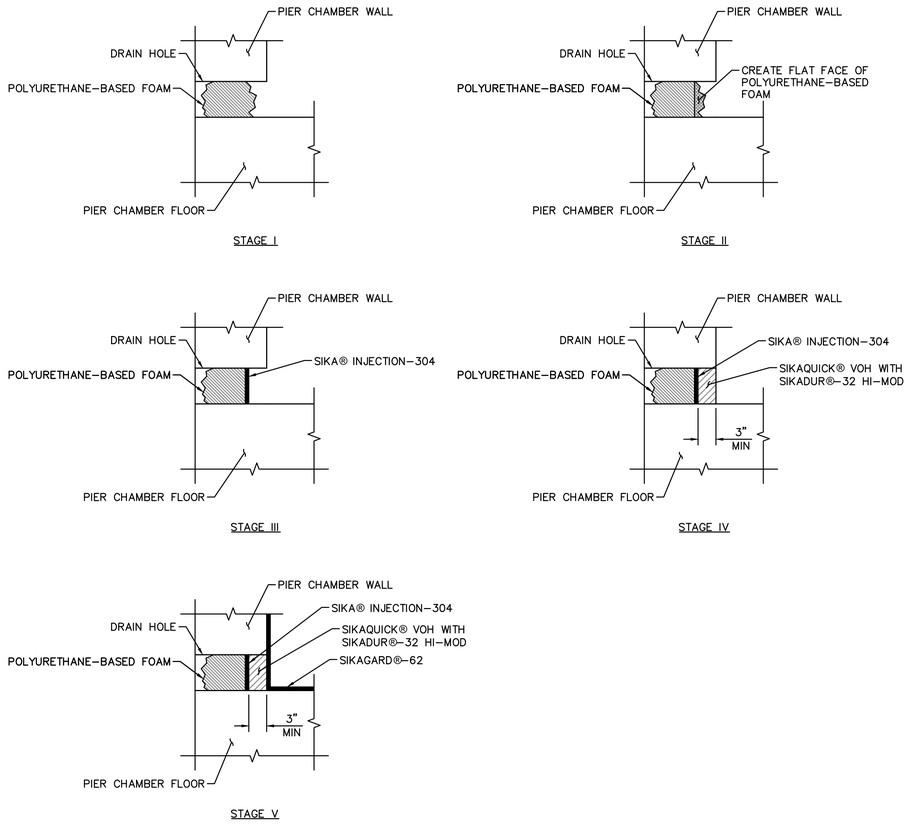
NTS

DRAIN HOLE REPAIR NOTES

1. REMOVE ANY DEBRIS FROM THE DRAIN HOLE AND CLEAN THE WALLS OF THE DRAIN HOLE.
2. PLACE POLYURETHANE-BASED FOAM IN THE DRAIN HOLE. ONCE EXPANDED, CREATE A FLAT FACE.
3. PLACE SIKA® INJECTION-304 ON THE FLAT FACE OF THE POLYURTHANE-BASED FOAM.
4. PLACE SIKAQUICK® VOH WITH SIKADUR®-32 HI-MOD AS A BONDING AGENT INSIDE OF THE DRAIN HOLE.
5. ONCE THE SIKAQUICK® VOH HAS DRIED, PLACE WATERPROOFING PER WATERPROOFING NOTES BELOW.
6. PREPARE ALL SURFACES AND INSTALL ALL PRODUCTS PER MANUFACTURER'S INSTRUCTIONS.

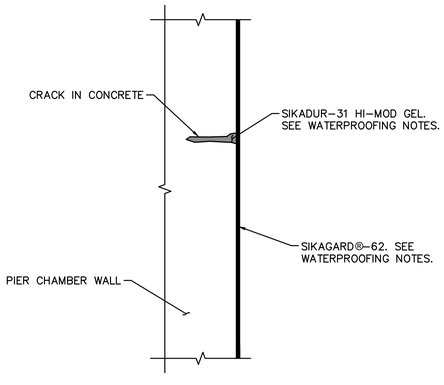
WATERPROOFING NOTES

1. DRY INSIDE OF PIER CHAMBER.
2. FOR ANY OBSERVED CRACKS, PLACE SIKADUR®-31 HI-MOD GEL IN THE CRACKS.
3. PLACE SIKAGARD-62 ON THE INSIDE FACE OF THE PIER WALLS, ON THE PIER CHAMBER FLOOR, AND ON THE FACE OF THE PIER COLUMNS.
4. PREPARE ALL SURFACES AND INSTALL ALL PRODUCTS PER MANUFACTURER'S INSTRUCTIONS.



DRAIN HOLE REPAIR PROCESS

SCALE: 1" = 1'-0"



CRACK REPAIR DETAIL

NTS

ARIZONA BLUE STAKE
CALL TWO WORKING DAYS BEFORE YOU DIG
Dial 811 or
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

Kimley»Horn

7740 NORTH 16TH STREET #300, PHOENIX, ARIZONA 85020
PHONE: 602-944-5500 WWW.KIMLEY-HORN.COM

LAKE HAVASU CITY, ARIZONA • INCORPORATED 1978 •

NO.	REVISIONS / SUBMISSIONS	DATE
#	-	-
#	-	-
#	-	-
#	-	-

LAKE HAVASU CITY
LONDON BRIDGE
PIER D REPAIRS

Designed by:	ATL
Drawn by:	ATL
Checked by:	NLM
Date:	6/19/23
Dwg scale:	-

REPAIR DETAILS

BID DOCUMENTS

Sheet Number:
DT01
Sheet 4 of 4