

# PUBLIC NOTICE

US Army Corps  
of Engineers  
New York District  
Jacob K. Javits Federal Building  
New York, N.Y. 10278-0090  
ATTN: Regulatory Branch

**In replying refer to:**  
Public Notice Number: NAN-2024-00281  
Issue Date:  
Expiration Date:

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## To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

**APPLICANT:** New Jersey Transit  
Attn: John Geitner  
One Penn Plaza  
Newark, NJ 07105

**ACTIVITY:** Installation of stormwater outfall and pilings, and discharge of fill material

**WATERWAY:** Hudson River

**LOCATION:** City of Hoboken, Hudson County, New Jersey.

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

**ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE,** otherwise, it will be presumed that there are no objections to the activity.

Comments submitted in response to this notice will be fully considered during the public interest

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PUBLIC NOTICE NO. NAN-2024- 00281**

review for this permit application. Comments provided will become part of the public record for this permit application. All written comments, including contact information, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act (Public Law 104-267), requires all Federal agencies to consult with the National Oceanic and Atmospheric Administration Fisheries Service (NOAA/FS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed work, fully described in the attached work description, could cause the disruption of habitat for various lifestages of some EFH-designated species as a result of a temporary increase in turbidity during construction. However, the New York District has made the preliminary determination that the site-specific adverse effects are not likely to be substantial because it is expected that fish populations would avoid the small area of disturbance. Further consultation with NOAA/FS regarding EFH impacts and conservation recommendations being conducted and will be concluded prior to the final decision.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision. This public notice serves as notification to the Administrator of the Environmental Protection Agency (EPA) pursuant to section 401(a)(2) of the Clean Water Act. If EPA determines that the proposed discharge may affect the quality of the waters of any state other than New Jersey, it will so notify such other state, the district engineer, and the applicant. If such notice or a request for supplemental information is not received within 30 days of issuance of this public notice, the district engineer will assume EPA has made a negative determination with respect to section 401(a)(2).

Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C. 1456 (c)], for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the

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permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occurs. For activities within the coastal zone of New Jersey State, the applicant's certification and accompanying information is available from the New Jersey Department of Environmental Protection, Coastal Management Program, P.O. Box 418, 401 E. State Street, Trenton, NJ, 08625, Telephone (609) 633-2201. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- New Jersey Department of Environmental Protection

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact this office at [jarod.r.ostir@usace.army.mil](mailto:jarod.r.ostir@usace.army.mil).

In order for us to better serve you, please complete our Customer Service Survey located at <https://www.nan.usace.army.mil/Missions/Regulatory/Customer-Survey/>.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>.

**FOR AND IN BEHALF OF**  
Stephan A. Ryba  
Chief, Regulatory Branch

Enclosures

**WORK DESCRIPTION**

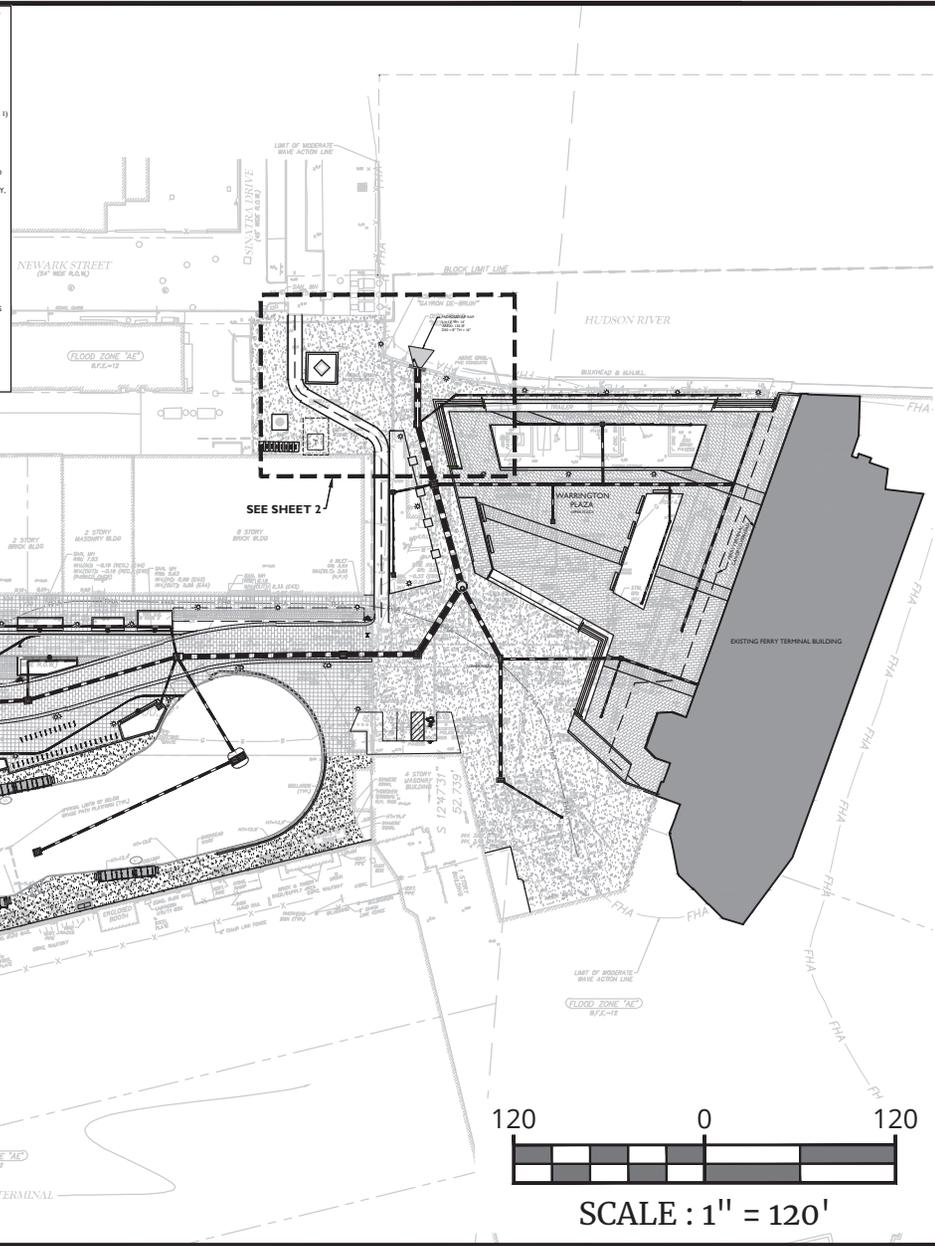
The applicant, New Jersey Transit, has requested Department of the Army authorization for installation of a stormwater outfall and steel pilings, to include discharge of fill material into waters of the United States, in the Hudson River, City of Hoboken, Hudson County, New Jersey.

The work would involve:

Construction of a stormwater outfall pipe that includes the placement of approximately 7 cubic yards (CY) of rip rap fill below Spring High Water over an approximately 192 square foot (SF) area. The work also includes the installation of 123 new steel pilings beneath the ferry terminal. The pilings will require approximately 70 CY of fill material. These structures will be located along the shoreline and not in the main channel of the river.

The stated purpose of this project is for the Rehabilitation of Warrington Plaza and the Hoboken Terminal at Hudson Place requiring the construction of a stormwater outfall and driving additional pilings to structurally stabilize the Hoboken Ferry Terminal.

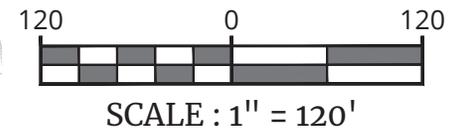
1. THE SUBJECT PROPERTY IS KNOWN AS LOT 3 IN BLOCK 139 AS SHOWN ON SHEET 44 OF THE OFFICIAL TAX MAP OF THE CITY OF THE HOBOKEN, HUDSON COUNTY, STATE, DATED DECEMBER 2019.
2. THE PROPERTY IS LOCATED IN THE HOBOKEN YARD REDEVELOPMENT AREA WHICH CONTAINS A TOTAL TRACT AREA OF 2282.54 SF, 52.4 ACRES. THE PROPOSED DEVELOPMENT IS LOCATED ON LOT 3 WHICH CONTAINS A LOT AREA OF 2,189 SF.
- OWNER: NEW JERSEY TRANSIT  
ONE FINN PLAZA EAST  
NEWARK, NJ 07102
3. THE SUBJECT PROPERTY IS AN EXISTING PLAZA AND EXISTING FERRY TERMINAL BUILDING. THE APPLICANT PROPOSES TO RENOVATE THE EXISTING FERRY TERMINAL BUILDING AND RECONSTRUCT THE EXISTING PLAZA. ADDITIONAL SITE IMPROVEMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE CONSTRUCTION OF SITE LIGHTING, LANDSCAPING, UTILITIES AND STORM SEWERS.
4. THE BOUNDARY SURVEY AND TOPOGRAPHIC SURVEY INFORMATION SHOWN HEREON IS TAKEN FROM A PLAN ENTITLED "SURVEY FLAT OF HOBOKEN TERMINAL YARD BLOCK 229, LOTS 1 & 2 (SITE 1) & PORTION OF BLOCK 125, LOT 1.02 (SITE 2)" PREPARED BY COLLIER ENGINEERING & DESIGN DATED AUGUST 14, 2020 LAST REVISED JUNE 12, 2023.
5. THE HORIZONTAL DATUM IS RELATIVE TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM AND ADJUSTED TO NAD1983. THE VERTICAL DATUM IS RELATIVE TO NAVD 1988.
6. BENCHMARK REFERENCE: KV457, ELEVATION: 8.71 FEET NAVD 1988.
7. FLOODWAY AND FLOOD HAZARD LIMITS SHOWN HEREON ARE TAKEN FROM FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) STUDIES. ACCORDING TO THE EFFECTIVE FIRM MAP FOR HUDSON COUNTY NEW JERSEY (ALL JURISDICTIONS PANEL 107 OF 118, MAP NUMBER 34072/D, PREPARED BY THE FEDERAL MANAGEMENT AGENCY, THE SUBJECT PROPERTY LIES WITHIN FLOOD ZONE AE WITH AN ASSIGNED 1% ANNUAL CHANCE FLOOD OR AN ELEVATION 9, ACCORDING TO THE PRELIMINARY FLOOD INSURANCE RATE MAP FOR HUDSON COUNTY. THE WESTERN PORTION OF THE SUBJECT PROPERTY LIES WITHIN FLOOD ZONE AE WITHIN THE LIMITS OF MODERATE WAVE ACTION, LPMMA. THE EASTERN PORTION OF THE SUBJECT PROPERTY LIES WITHIN FLOOD ZONE VE ELEVATION 12 AS PER FLOOD INSURANCE RATE MAP FOR HUDSON COUNTY, NEW JERSEY (ALL JURISDICTIONS PANEL 107 OF 118, MAP NUMBER 34072/D, REVISED PRELIMINARY MAP DATED JANUARY 30, 2015, PREPARED BY THE FEDERAL MANAGEMENT AGENCY. A FLOOD HAZARD AREA VERIFICATION APPLICATION IS PENDING WITH NJDEP.
8. THIS SET OF PLANS IS NOT DEPICTING ENVIRONMENTAL CONDITIONS OR A CERTIFICATION/WARRANTY REGARDING THE PRESENCE OR ABSENCE OF ENVIRONMENTALLY IMPACTED SITE CONDITIONS. MASER CONSULTING HAS PERFORMED NO EXPLORATORY OR TESTING SERVICES, INTERPRETATIONS, CONCLUSIONS OR OTHER SITE ENVIRONMENTALLY IMPACTED SITE DETERMINATION OF THE POTENTIAL FOR CHEMICAL, TOXIC, RADIOACTIVE OR OTHER TYPE OF CONTAMINANTS AFFECTING THE PROPERTY AND THE UNDERSIGNED PROFESSIONAL IS NOT QUALIFIED TO DETERMINE THE EXISTENCE OF SAME. SHOULD ENVIRONMENTAL CONTAMINATION OR WASTE BE DISCOVERED, THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LAWS AND REGULATIONS.
9. THIS IS A SITE DEVELOPMENT PLAN AND UNLESS SPECIFICALLY NOTED ELSEWHERE HEREON, IS NOT A SURVEY.
10. DO NOT SCALE DRAWINGS AS THEY PERTAIN TO ADJACENT AND SURROUNDING PHYSICAL CONDITIONS, BUILDINGS, STRUCTURES, ETC. THEY ARE SCHEMATIC ONLY, EXCEPT WHERE DIMENSIONS ARE SHOWN THERE TO.
11. THIS SET OF PLANS HAS BEEN PREPARED FOR THE PURPOSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL APPROVALS REQUIRED HAVE BEEN OBTAINED. ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED AND THE DRAWINGS HAVE BEEN STAMPED "ISSUED FOR CONSTRUCTION". THIS SHALL INCLUDE APPROVAL OF ALL CATALOG CUTS, SHOP DRAWINGS AND/OR DESIGN CALCULATIONS AS REQUIRED BY THE PROJECT OWNER AND/OR MUNICIPAL ENGINEER.
12. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY, INCLUDING PROVISION OF ALL APPROPRIATE SAFETY DEVICES AND TRAINING REQUIRED.
13. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CALL 811 TO REQUEST A UTILITY MARKOUT.



EXISTING		PROPOSED	
TRAILER LINE, CENTER LINE	12+00	OR BASELINE (LABEL AS SUCH)	13+00
RIGHT OF WAY LINE	---	---	---
PROPERTY LINE	---	---	---
EDGE OF PAVEMENT	---	---	---
CURB	---	---	---
DEPRESSED CURB	---	---	---
SIDEWALK	---	---	---
FENCES	---	---	---
TREELINE	---	---	---
ROADWAY SIGNS	---	---	---
WETLAND LINE	---	---	---
MUNICIPAL BOUNDARY LINE	---	---	---
TYPE 'Y' INLET	---	---	---
TYPE 'C', 'D', 'E' INLET	---	---	---
STORM MANHOLE	---	---	---
SANITARY MANHOLE	---	---	---
FLARED END SECTION	---	---	---
HEADWALL	---	---	---
HYDRANT	---	---	---
POLE MOUNTED LIGHT	---	---	---
CABLE TV CONDUIT	---	---	---
WATER MAIN	---	---	---
GAS MAIN	---	---	---
TELEPHONE CONDUIT	---	---	---
ELECTRIC CONDUIT	---	---	---
SANITARY PIPE	---	---	---
STORM PIPE	---	---	---



Daniel Sobieski  
 NEW JERSEY LICENSED PROFESSIONAL ENGINEER  
 LICENSE NUMBER: GE55019  
 COLLIER ENGINEERING & DESIGN, INC.  
 N.J. C.O.A. #: 246A27986500



By: DSOBIESKI  
 2016116002179A\Engineering\Site Plans\Hudson Place\Army Corp of Engineering Plans\C-HUDS-UTIL-ARMY.dwg\C-01-HUDS-OVERALL STORM NETWORK



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REV	DATE	DRAWN BY	DESCRIPTION

ARMY CORP OF  
 ENGINEERING PLANS  
 FOR  
 WARRINGTON PLAZA  
 AND HOBOKEN FERRY TERMINAL

BLOCK 139  
 LOT 3  
 CITY OF HOBOKEN  
 HUDSON COUNTY  
 NEW JERSEY

PROTECT YOURSELF  
 ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

STATE REQUIRED FILE NUMBER  
 FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

HOLMDEL (Headquarters)  
 101 Crawfords Corner Road,  
 Suite 3400  
 Holmdel, NJ 07733  
 Phone: 732.383.1950  
 COLLIER ENGINEERING & DESIGN, INC. DOING BUSINESS AS MASER CONSULTING

OUTFALL PLAN

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	2/2/24	PCS	DS
PROJECT NUMBER:	DRAWING NAME:		
16002179A	C-HUDS-UTIL-ARMY		

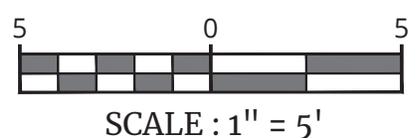
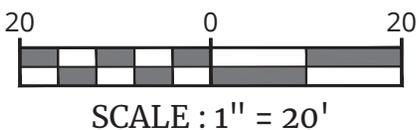
OVERALL STORM SEWER  
 PLAN VIEW

SHEET NUMBER:  
 1 of 5

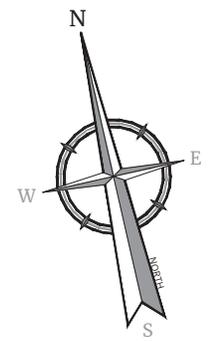
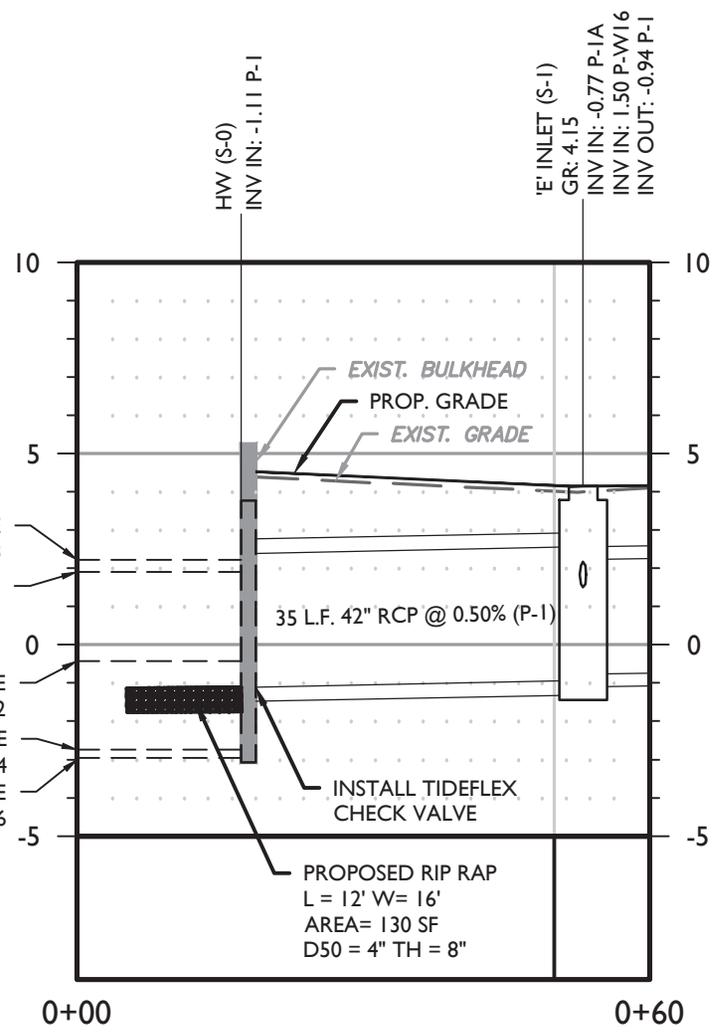


2016116002179A(Engineering)Site Plans\Hudson Place\Army Corp of Engineering Plans\C-03-HUDS-STORM SEWER LAYOUT AT OUTFALL By: DSOBIESKI

EXISTING	LEGEND	PROPOSED
	TRAVERSE LINE, CENTER LINE	
	EDGE OF PAVEMENT	
	PROPERTY LINE	
	RIGHT OF WAY LINE	
	CURB	
	DEPRESSED CURB	
	SIDEWALK	
	FENCES	
	TREELINE	
	ROADWAY SIGNS	
	WETLAND LINE	
	MUNICIPAL BOUNDARY LINE	
	TYPE '9' INLET	
	TYPE 'C', 'D', 'E' INLET	
	STORM MANHOLE	
	SANITARY MANHOLE	
	FLARED END SECTION	
	HEADWALL	
	HYDRANT	
	POLE MOUNTED LIGHT	
	CABLE TV CONDUIT	
	WATER MAIN	
	GAS MAIN	
	TELEPHONE CONDUIT	
	ELECTRIC CONDUIT	
	SANITARY PIPE	
	STORM PIPE	



MEAN HIGHER HIGH WATER LINE 2.23  
 MEAN HIGH WATER LINE 1.90  
 MEAN TIDE LINE -0.42  
 MEAN LOW WATER LINE -2.74  
 MEAN LOWER LOW LINE -2.96



**PROFILE OF PROP. OUTFALL S-0**  
 HORIZONTAL : 1" = 20'  
 VERTICAL : 1" = 5'

*Dan Sobieski*  
 PROFESSIONAL ENGINEER  
 NEW JERSEY LICENSE NUMBER: GE55019  
 COLLIER ENGINEERING & DESIGN, INC.  
 N.J. C.O.A. #: 24GA27986500



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REV	DATE	DRAWN BY	DESCRIPTION

ARMY CORP OF ENGINEERING PLANS FOR WARRINGTON PLAZA AND HOBOKEN FERRY TERMINAL

BLOCK 139 LOT 3  
 CITY OF HOBOKEN HUDSON COUNTY NEW JERSEY

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OUTFALL PLAN			
SCALE: AS SHOWN	DATE: 2/2/24	DRAWN BY: PCS	CHECKED BY: DS
PROJECT NUMBER: 16002179A		DRAWING NAME: C-HUDS-UTIL-ARMY	
STORM SEWER AT OUTFALL PROFILE VIEW			
SHEET NUMBER: 3 of 5			

2016116002179A(Engineering)Site Plans:Hudson PlaceArmy Corp of Engineering Plans:C-HUDS-UTIL-ARMY.dwg:C-04-HUDS-STORM SEWER DETAILS By: DSOBIESKI

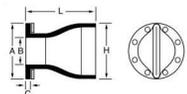


**Technical Data**

**Series 35 - Flanged Check Valve**

**Materials of Construction**

- Pure Gum Rubber, Neoprene, Chlorobutyl, Buna-N, Hypalon, Viton, EPDM, Food Grade
- NSFBI Certified for Potable Water
- Galvanized Steel, Stainless Steel



The Tideflex® Technologies Series 35 Check Valve is manufactured identically to the Tideflex® Check Valve, with the addition of an integral elastomer flange as part of the valve. The standard flange size drilling conforms to ANSI B16.5 and ANSI B16.47, Class 150 standards. All other domestic and international standards, as well as customer specified flange dimensions, are available. The Series 35 Check Valve is furnished complete with 3/8" thick steel backup rings for installation.

In some applications and installations, a slip-over pipe Check Valve is not feasible because of an existing flange in the piping system or an existing flange cemented in the outfall piping system vault. In these cases, the Series 35 Check Valve is the solution.

The Tideflex® Technologies Series 35 Check Valve is simple in design, with only one part - the all-rubber duck bill check sleeve. There are no seats or interferences fits to corrode or freeze valve operation, making the Series 35 virtually maintenance free. The Series 35 seals completely around solids, making it ideal for fly ash, raw sewage, sludge, lime, mining slurries, and many other abrasive and corrosive slurries.

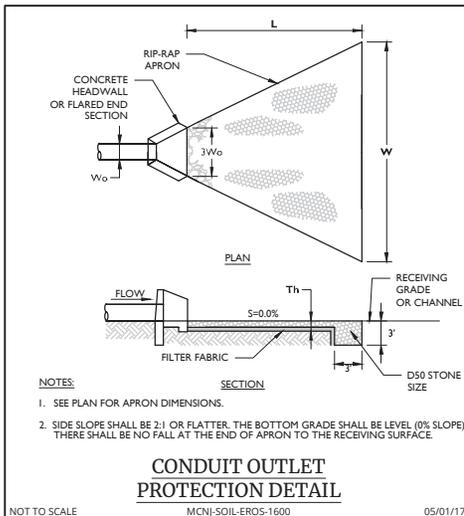
**DIMENSIONS SERIES 35**

ANSI FLANGE SIZE	FLANGE O.D. A	INSIDE DIAMETER B	FLANGE THICKNESS C	MAXIMUM LENGTH L	MAXIMUM DEPTH H
1/2"	3.12"	1.25"	1/2"	2.12"	1.14"
3/4"	3.75"	2.00"	3/4"	2.75"	1.12"
1"	4.14"	2.50"	1"	3.14"	1.12"
1.1/4"	4.58"	3.00"	1.1/4"	3.58"	2.24"
1.1/2"	5"	3.50"	1.1/2"	4.00"	3.58"
2"	5.75"	4.25"	2"	4.75"	5.58"
2.1/2"	6.50"	5.00"	2.1/2"	5.50"	6.58"
3"	7.12"	5.75"	3"	6.12"	7.58"
4"	8.12"	6.75"	4"	7.12"	8.58"
5"	9.12"	7.75"	5"	8.12"	9.58"
6"	10.12"	8.75"	6"	9.12"	10.58"
8"	13.12"	11.75"	8"	12.12"	16.58"
10"	15.12"	13.75"	10"	14.12"	20.58"
12"	17.12"	15.75"	12"	16.12"	24.58"
14"	19.12"	17.75"	14"	18.12"	28.58"
16"	21.12"	19.75"	16"	20.12"	32.58"
18"	23.12"	21.75"	18"	22.12"	36.58"
20"	25.12"	23.75"	20"	24.12"	40.58"
22"	27.12"	25.75"	22"	26.12"	44.58"
24"	29.12"	27.75"	24"	28.12"	48.58"
30"	35.12"	33.75"	30"	34.12"	58.58"
36"	41.12"	39.75"	36"	40.12"	68.58"
42"	47.12"	45.75"	42"	46.12"	78.58"
48"	53.12"	51.75"	48"	52.12"	88.58"
54"	59.12"	57.75"	54"	58.12"	98.58"
60"	65.12"	63.75"	60"	64.12"	108.58"
66"	71.12"	69.75"	66"	70.12"	118.58"
72"	77.12"	75.75"	72"	76.12"	128.58"
78"	83.12"	81.75"	78"	82.12"	138.58"
84"	89.12"	87.75"	84"	88.12"	148.58"

NOTE: CHECK VALVE SHALL BE SERIES 35 OR FUNCTIONALLY EQUIVALENT UNIT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

Tideflex Technologies • 600 N. Bell Ave., Carnegie, PA 15106 USA • 412-279-0044 • Fax 412-279-7878 • www.tideflex.com

TIDEFLEX CHECK VALVE  
NOT TO SCALE



Daniel Sobieski  
NEW JERSEY LICENSED PROFESSIONAL ENGINEER  
LICENSE NUMBER: GES5019  
COLLIERS ENGINEERING & DESIGN, INC.  
NJ, C.O.A. #: 24GA27986500



**Engineering & Design**

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REV	DATE	DRAWN BY	DESCRIPTION

ARMY CORP OF ENGINEERING PLANS FOR WARRINGTON PLAZA AND HOBOKEN FERRY TERMINAL

BLOCK 139 LOT 3  
CITY OF HOBOKEN HUDSON COUNTY NEW JERSEY

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OUTFALL PLAN

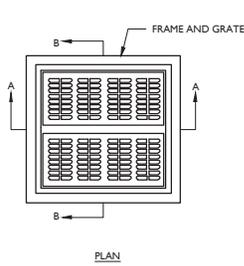
SCALE: AS SHOWN DATE: 2/2/24 DRAWN BY: PCS CHECKED BY: DS

PROJECT NUMBER: 16002179A DRAWING NAME: C-HUDS-UTIL-ARMY

STORM SEWER PROFILE

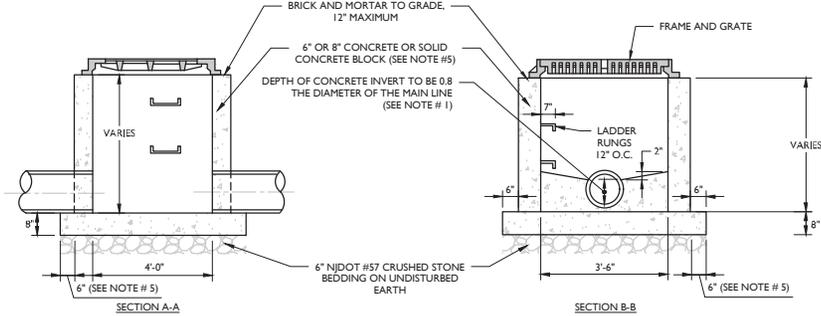
SHEET NUMBER: 4 of 5

2016116002179A(Engineering)Site Plans:Hudson PlaceArmy Corp of Engineering Plans:C-HUDS-UTIL-ARMY.dwg:C-05-HUDS-STORM SEWER DETAILS By: DSOBIESKI



**NOTES:**

1. INVERTS TO BE ELIMINATED IN BOTTOM OF TERMINAL INLETS. BOTTOMS SHALL BE DISHED AND SLOPED TOWARDS THE OUTLET PIPE AT A RATE OF GRADE OF 2 INCHES PER FOOT.
2. THIS INLET SHALL BE CONSTRUCTED OF CONCRETE OR PRECAST CONCRETE. IF CONCRETE BLOCK IS USED, THE BOTTOM SHALL BE AS SHOWN FOR CONCRETE & THE OUTSIDE OF THE WALLS SHALL BE PLASTERED WITH 1/2" COAT OF 1/2 CEMENT SAND MORTAR. THE INSIDE WALLS JOINTS SHALL BE STRUCK AND POINTED.
3. PROVIDE 7/8" DIA. X 7" X 12", 12" O.C. COPOLYMER POLYPROPYLENE PLASTIC STEPS WITH 1/2" DIA. GRADE 60 STEEL REINFORCEMENT, PS2-PF OR PS2-B WITH PRECAST PRESS FIT INSERTS, OR APPROVED EQUIVALENT.
4. INLET FRAME AND GRATES TO BE CAMPBELL FOUNDRY PATTERN # 3425 OR APPROVED EQUAL.
5. WHEN DEPTH IS GREATER THEN 12' THE WALLS SHOULD BE EITHER 8" THICK CONCRETE OR 8" SOLID CONCRETE BLOCK AND THE FOOTING SHALL BE EXTENDED TO 12" BEYOND THE OUTSIDE WALLS.
6. ALL CONCRETE TO BE NJDOT CLASS "B"
7. IN ACID SOILS, TWO COATS OF BITUMASTIC WATER PROOFING SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATION.
8. INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH H-20 LOADING REQUIREMENTS.

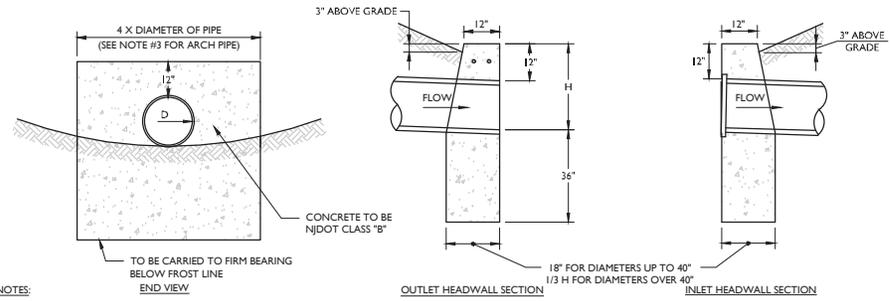


**TYPE "E" INLET DETAIL**

NOT TO SCALE

MCNJ-UTIL-STRM-1200

02/01/19



**NOTES:**

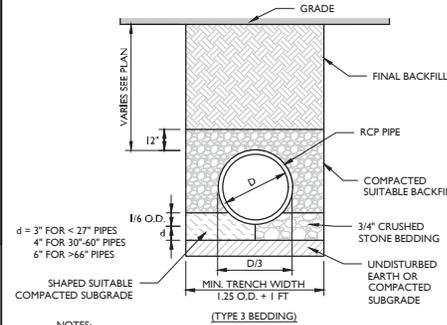
1. EXPOSED PORTIONS OF WALL TO BE RUBBED AND FLOATED.
2. ALL EDGES TO BE CHAMFERED 1 INCH.
3. FOR ARCH PIPE, USE WIDTH OF HEADWALL AS 3H + SPAN.
4. FOR MORE THAN ONE PIPE, CONTRACTOR TO SET THE PIPES AT A MINIMUM ONE FOOT APART (OUTSIDE TO OUTSIDE OF PIPES).
5. THE END OF THE HEADWALL SHALL BE SET 2 X DIAMETER OFF THE CENTERLINE OF THE CONTROLLING PIPE.
6. CONTRACTOR TO PROVIDE SITE SPECIFIC SHOP DRAWINGS FOR EACH HEADWALL PREPARED BY A STATE LICENSED PROFESSIONAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

**CONCRETE HEADWALL (STRAIGHT) DETAIL**

NOT TO SCALE

MCNJ-UTIL-STRM-21011

05/01/18



**NOTES:**

1. ALL REINFORCED CONCRETE PIPE AND BACKFILL SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C1479.
2. REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III CIRCULAR PIPE UNLESS OTHERWISE SPECIFIED, CONFORM TO ASTM C76 AND AASHTO M170.
3. SUITABLE BEDDING SHALL BE SAND, GRAVEL OR CRUSHED STONE.

**RCP PIPE BEDDING DETAIL**

NOT TO SCALE

MCNJ-UTIL-STRM-2301

02/01/19



**Daniel Sobieski**  
 NEW JERSEY LICENSED PROFESSIONAL ENGINEER  
 LICENSE NUMBER: GES5019  
 COLLIER ENGINEERING & DESIGN, INC.  
 N.J. C.O.A. #: 24GA27986500



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REV	DATE	DRAWN BY	DESCRIPTION

ARMY CORP OF  
 ENGINEERING PLANS  
 FOR  
 WARRINGTON PLAZA  
 AND HOBOKEN FERRY TERMINAL

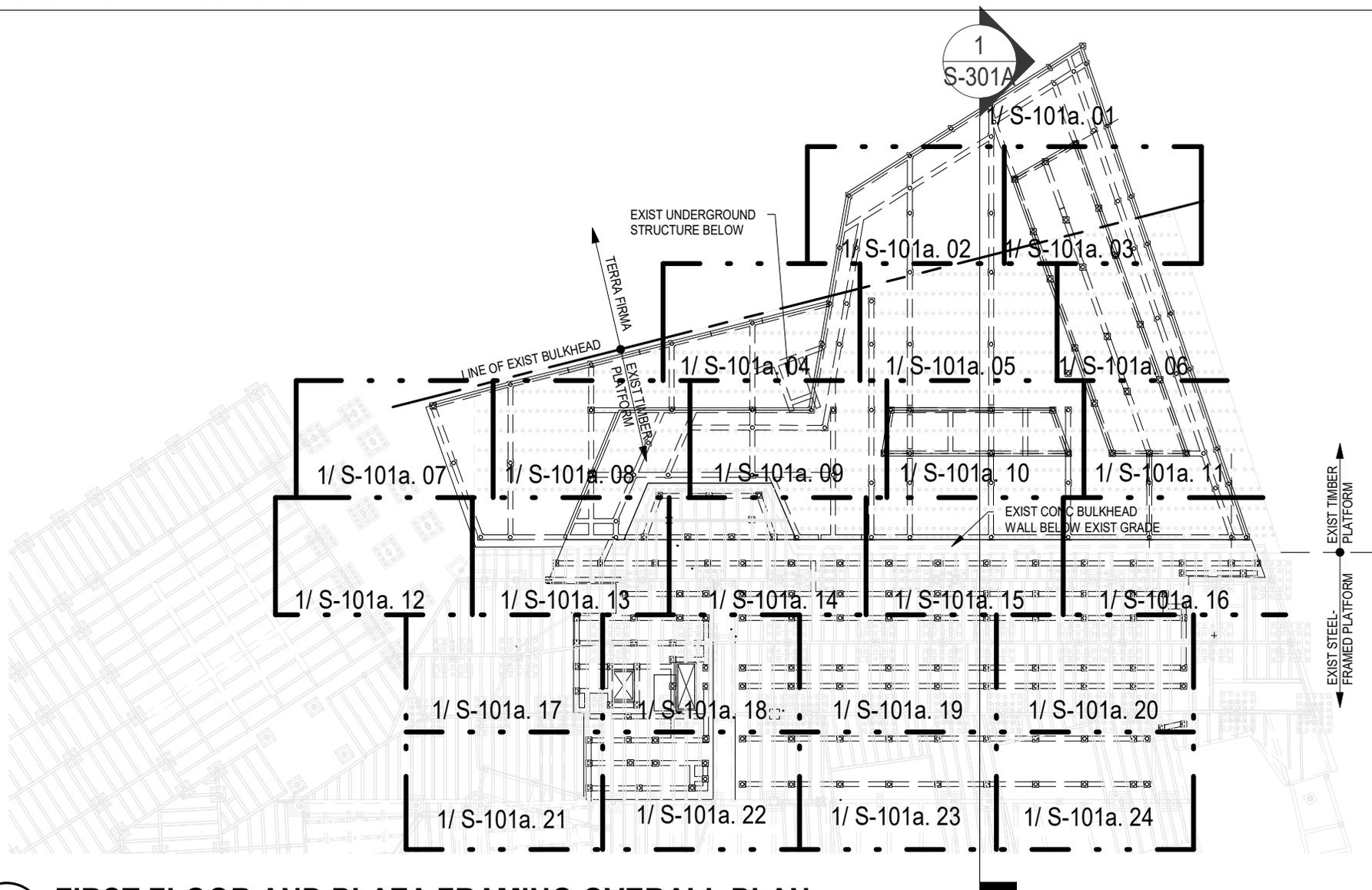
BLOCK 139  
 LOT 3  
 CITY OF HOBOKEN  
 HUDSON COUNTY  
 NEW JERSEY

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 ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

STATE REQUIRED FILE NUMBER FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

**HOLMDEL (Headquarters)**  
 101 Crawfords Corner Road, Suite 3400  
 Holmdel, NJ 07733  
 Phone: 732.383.1950  
 COLLIER ENGINEERING & DESIGN, INC. DOING BUSINESS AS MASER CONSULTING

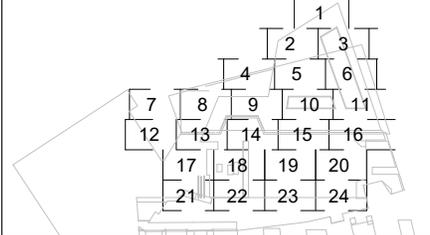
<b>OUTFALL PLAN</b>			
SCALE: AS SHOWN	DATE: 2/2/24	DRAWN BY: PCS	CHECKED BY: DS
PROJECT NUMBER: 16002179A	DRAWING NAME: C-HUDS-UTIL-ARMY		
<b>STORM SEWER DETAILS</b>			
SHEET NUMBER: 5 of 5			



**1** **FIRST FLOOR AND PLAZA FRAMING OVERALL PLAN**  
 1" = 60'-0" **NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS**

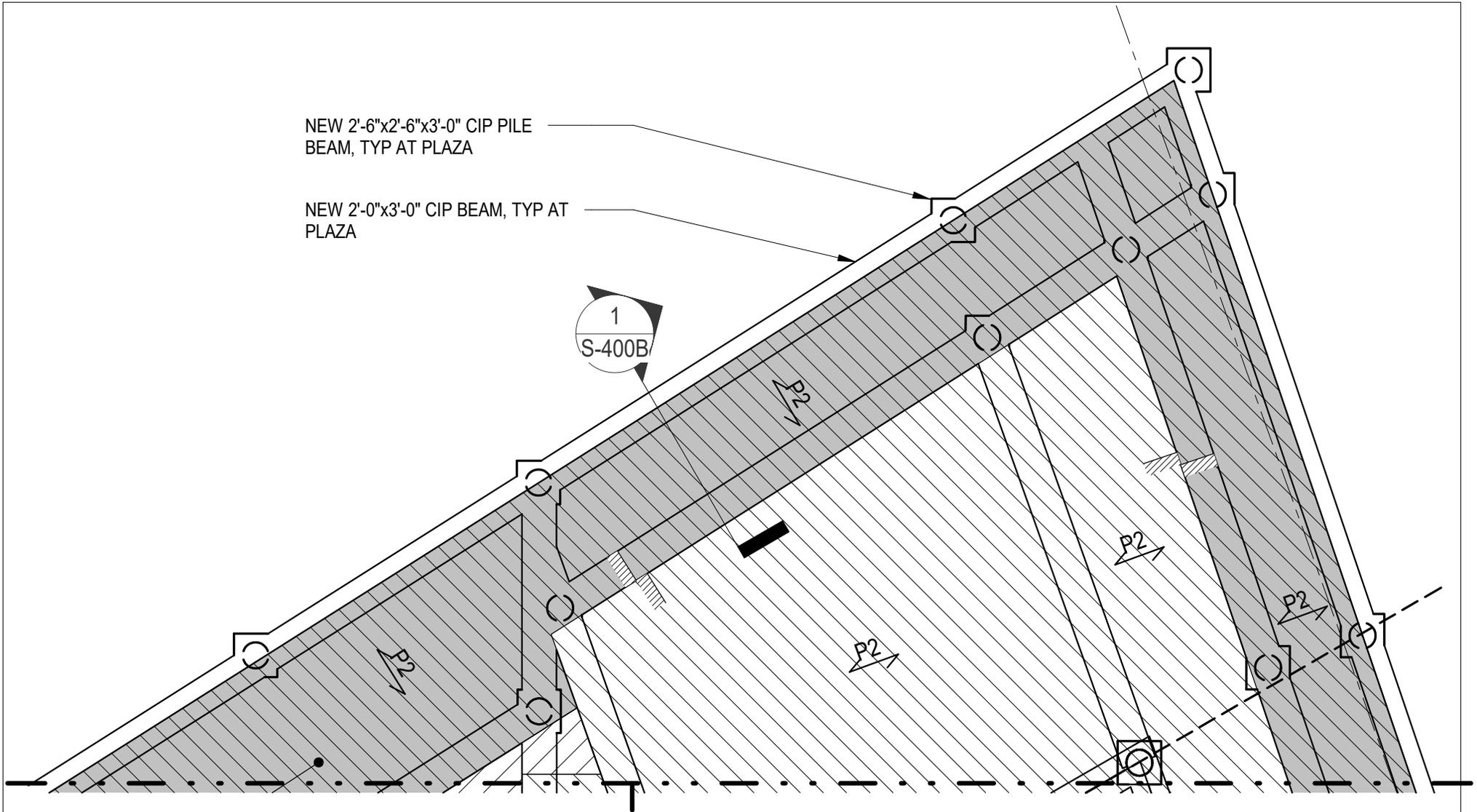
**Thornton Tomasetti**  
 Thornton Tomasetti, Inc.  
 120 Broadway  
 New York, NY 10271  
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 TERMINAL  
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OVERALL PLAN		
Project number	NN20112	<b>S-101a.00</b>
Date	02.02.2024	
		Scale 1" = 60'-0"

2/7/2024 10:22:30 AM

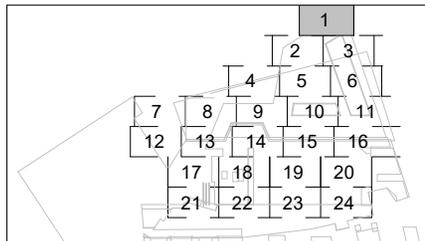


**NOTE:** SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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**FIRST FLOOR AND PLAZA FRAMING  
PART PLANS- 1**

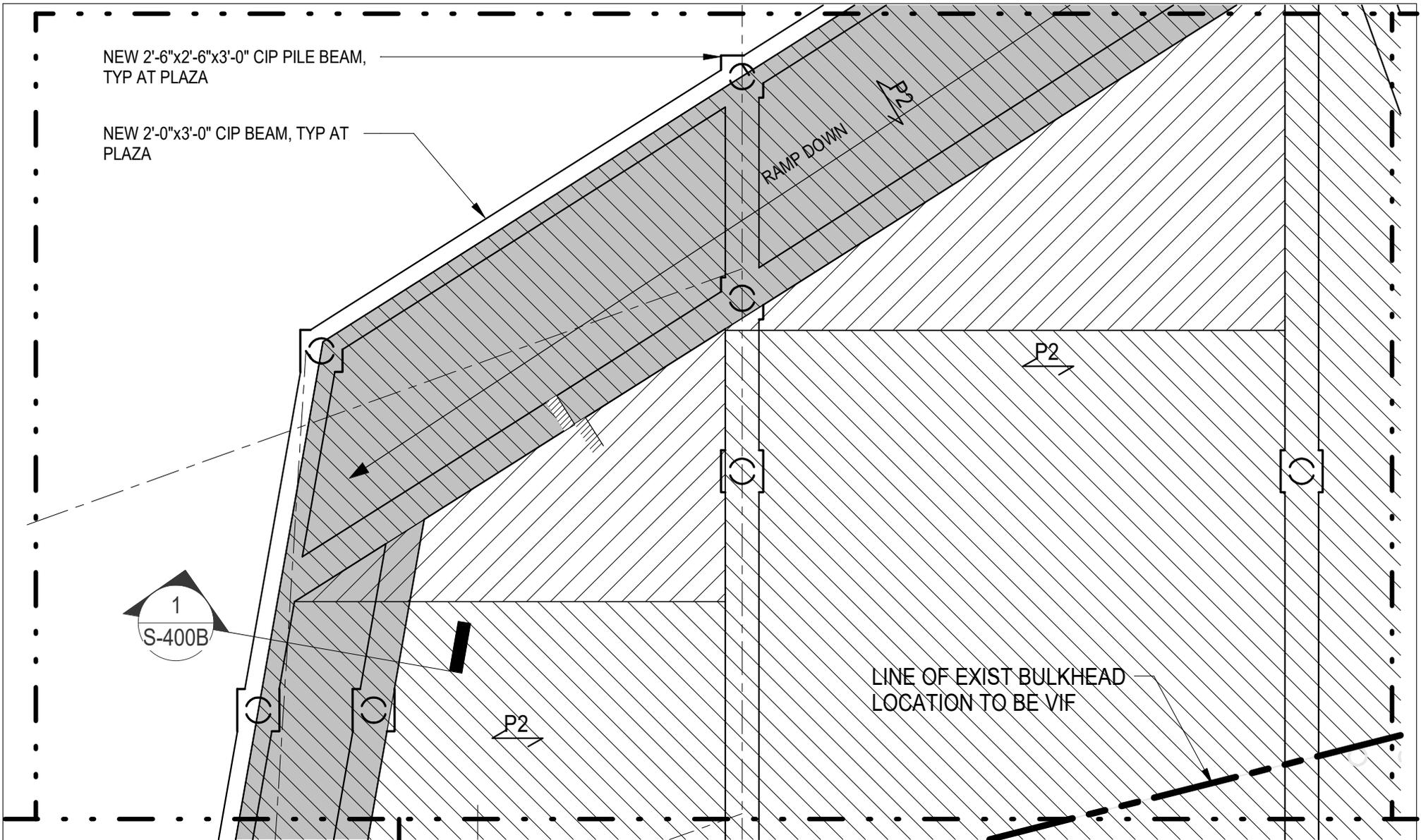
Project number NN20112

Date 02.02.2024

**S-101a. 01**

Scale 1/8" = 1'-0"

2/7/2024 10:22:31 AM



NEW 2'-6"x2'-6"x3'-0" CIP PILE BEAM,  
TYP AT PLAZA

NEW 2'-0"x3'-0" CIP BEAM, TYP AT  
PLAZA

RAMP DOWN

1  
S-400B

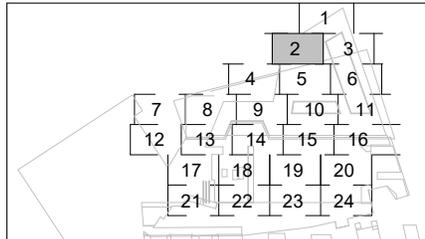
LINE OF EXIST BULKHEAD  
LOCATION TO BE VIF

NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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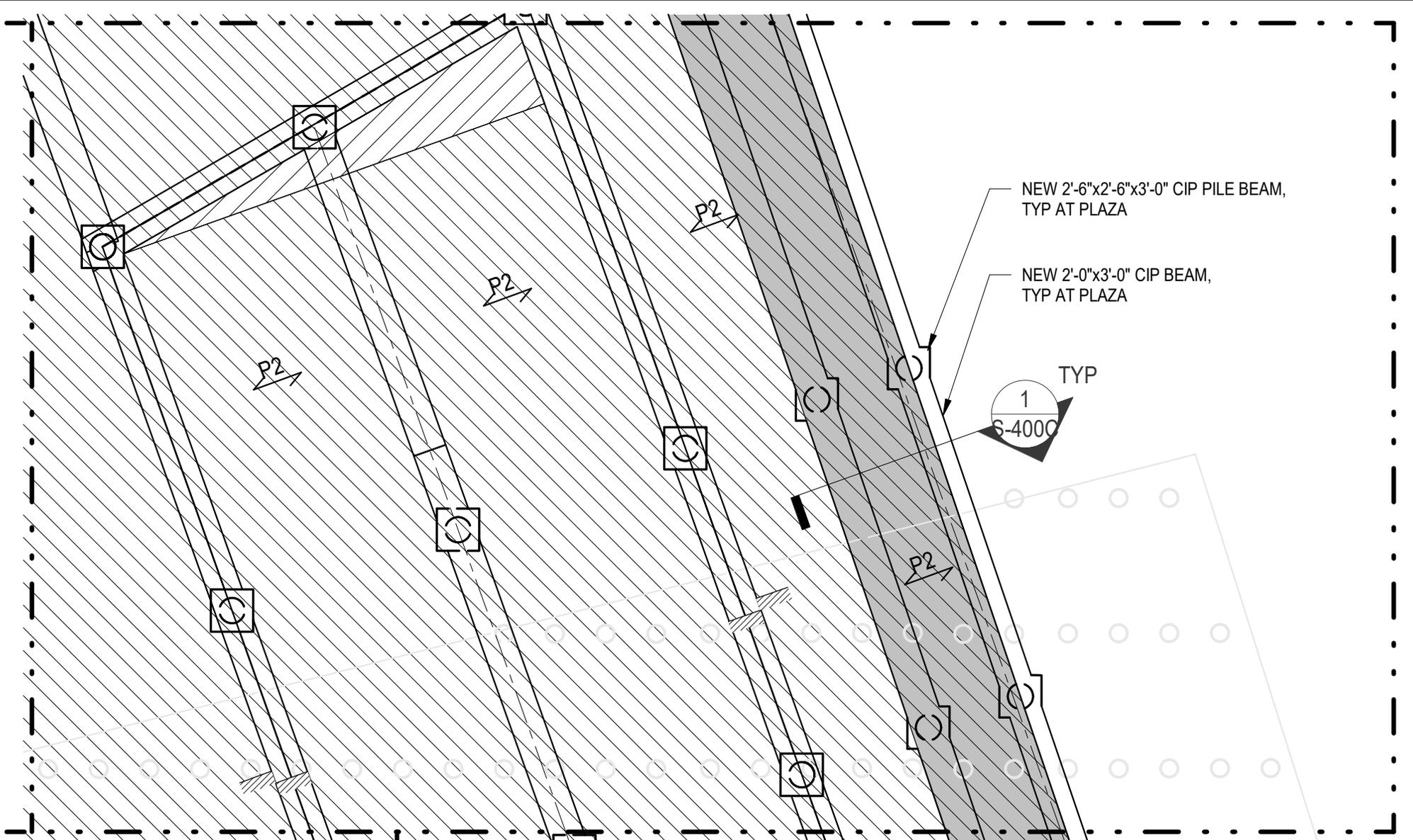
### FIRST FLOOR AND PLAZA FRAMING PART PLAN - 2

Project number NN20112

Date 02.02.2024

S-101a. 02

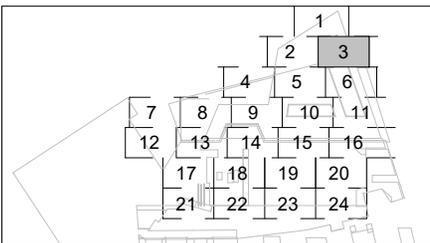
Scale 1/8" = 1'-0"



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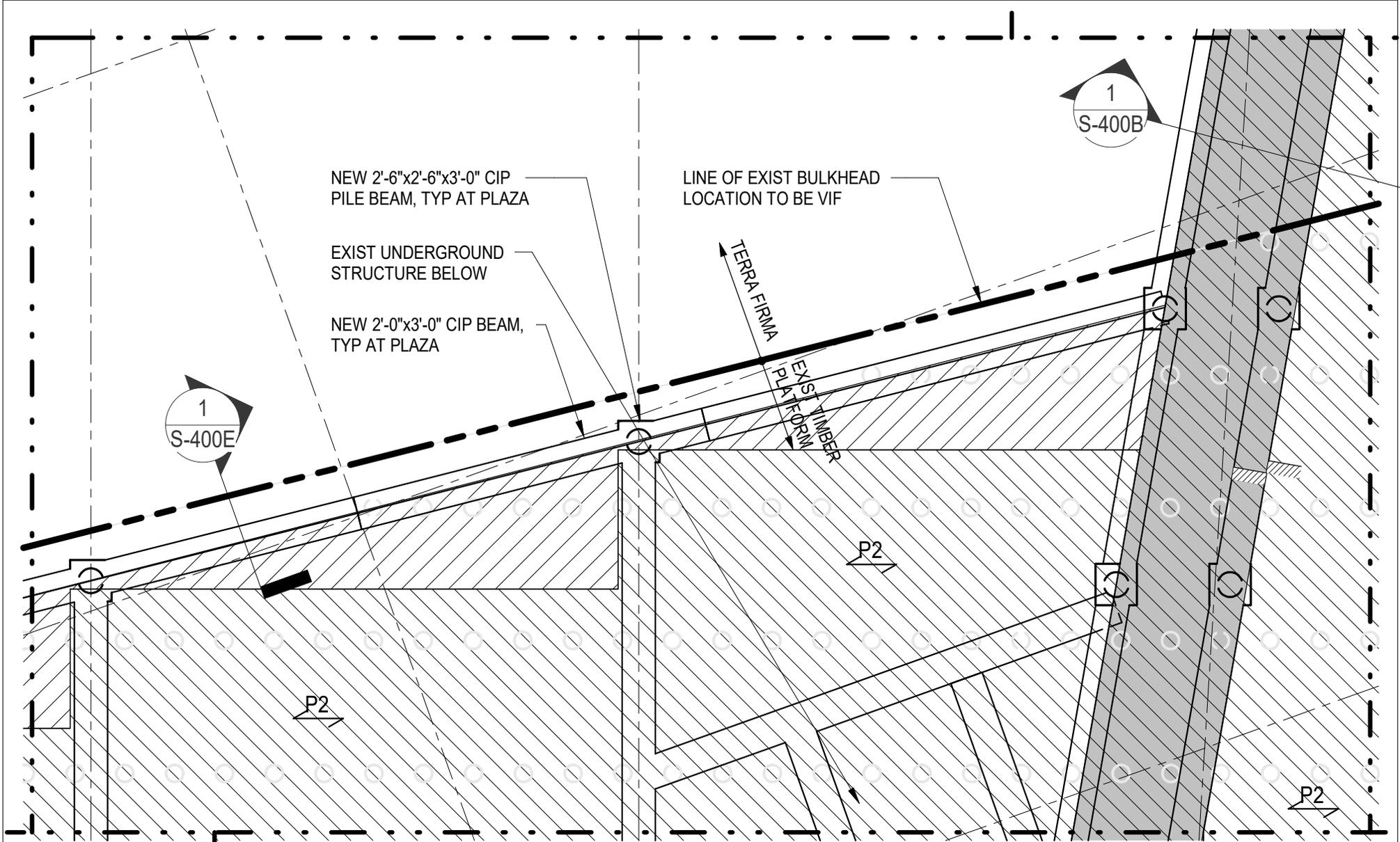


**FIRST FLOOR AND PLAZA FRAMING  
 PART PLAN - 3**

Project number	NN20112
Date	02.02.2024

**S-101a. 03**  
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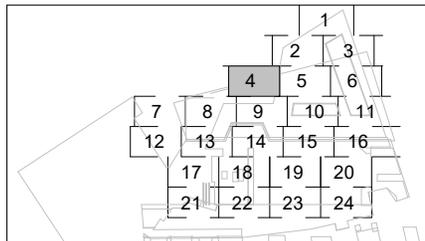


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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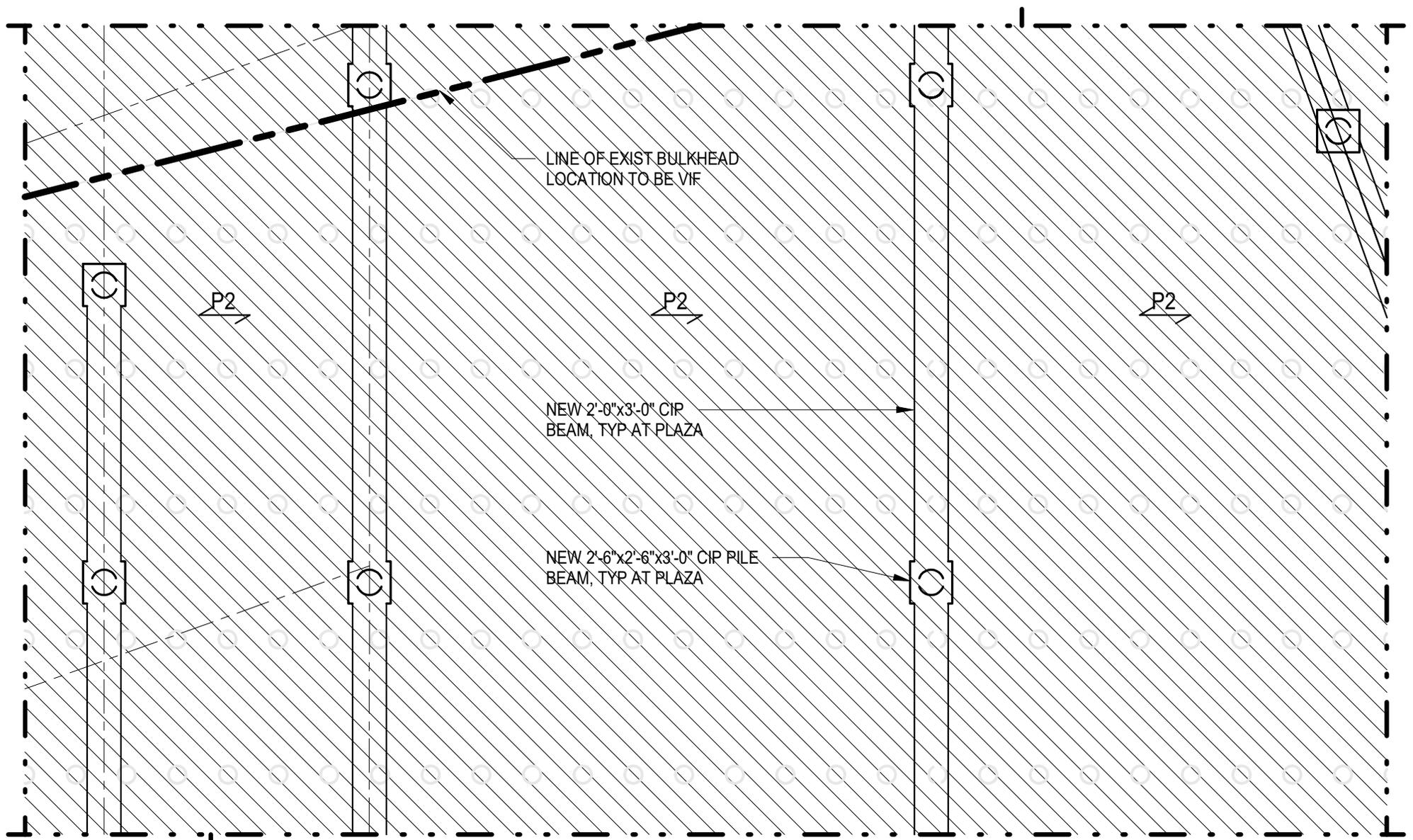
**FIRST FLOOR AND PLAZA FRAMING  
 PART PLAN - 4**

Project number NN20112

Date 02.02.2024

**S-101a. 04**

Scale 1/8" = 1'-0"

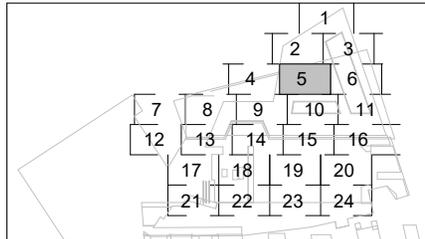


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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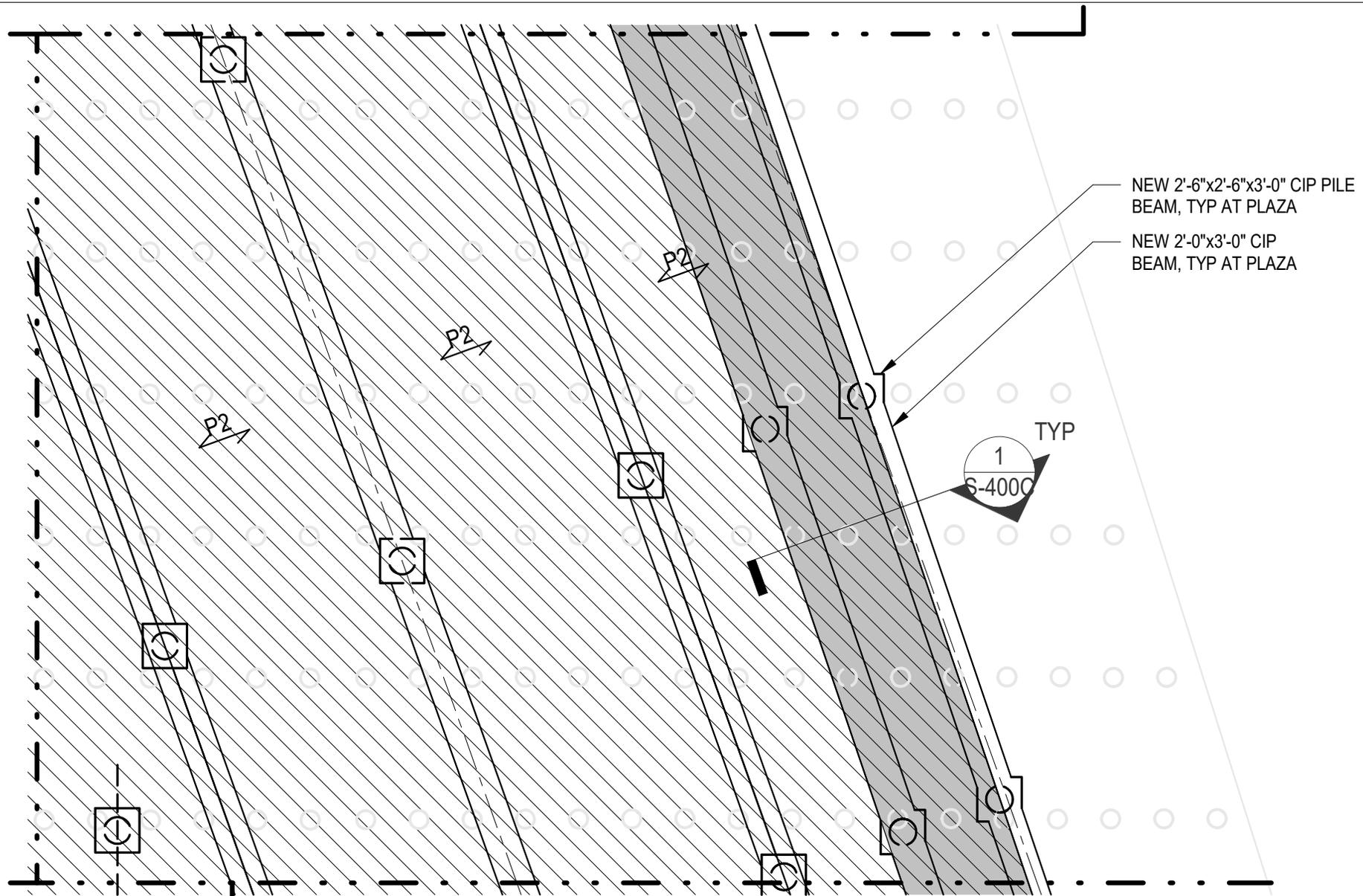
**FIRST FLOOR AND PLAZA FRAMING  
 PART PLAN - 5**

Project number NN20112  
 Date 02.02.2024

**S-101a. 05**

Scale 1/8" = 1'-0"

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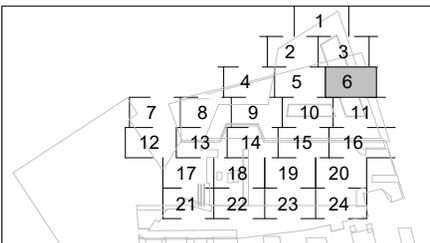


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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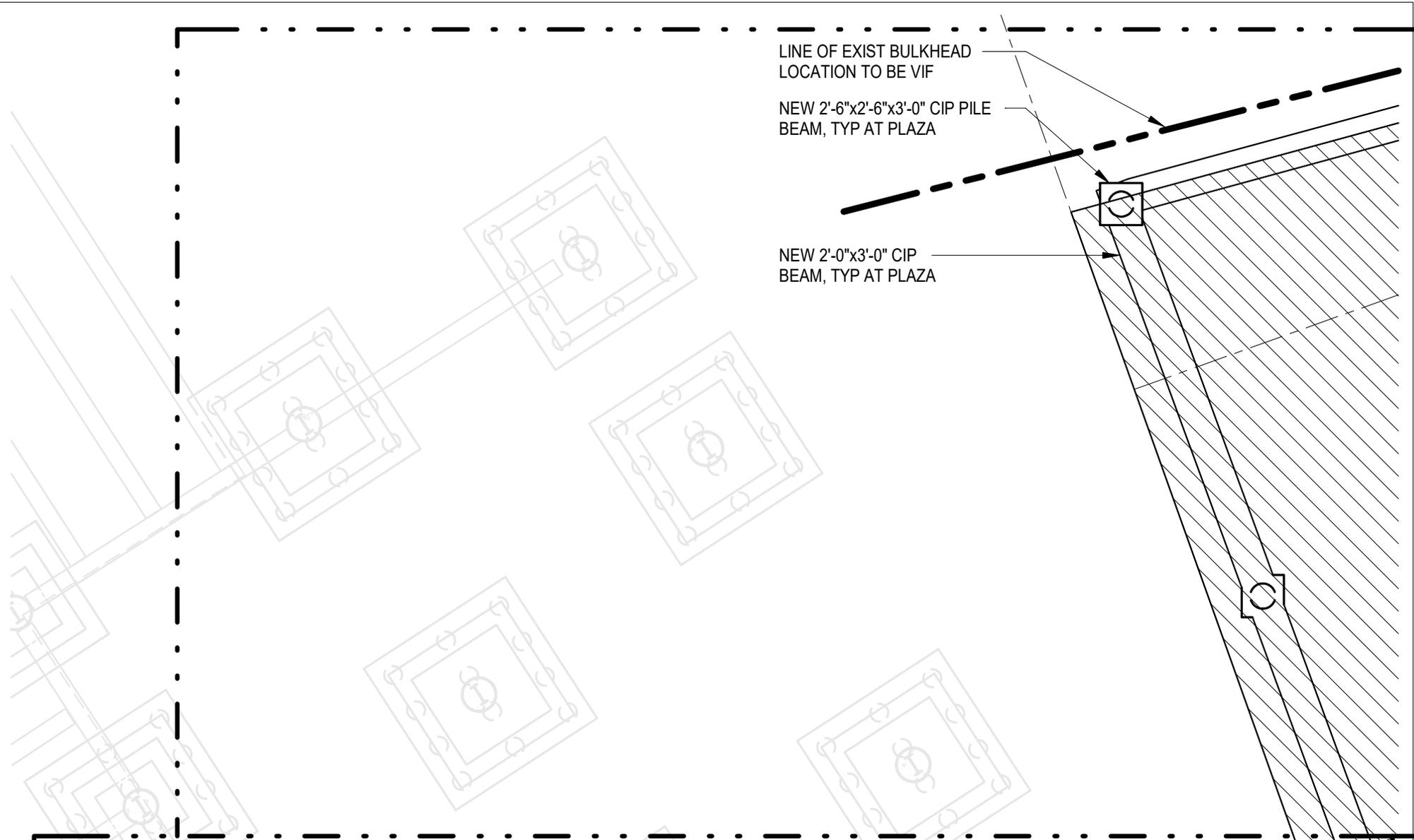


### FIRST FLOOR AND PLAZA FRAMING PART PLAN - 6

Project number	NN20112
Date	02.02.2024

**S-101a. 06**  
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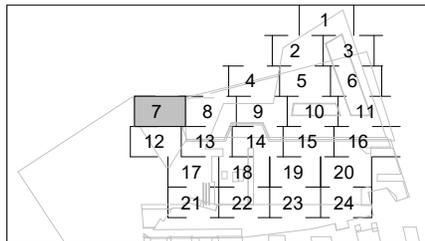


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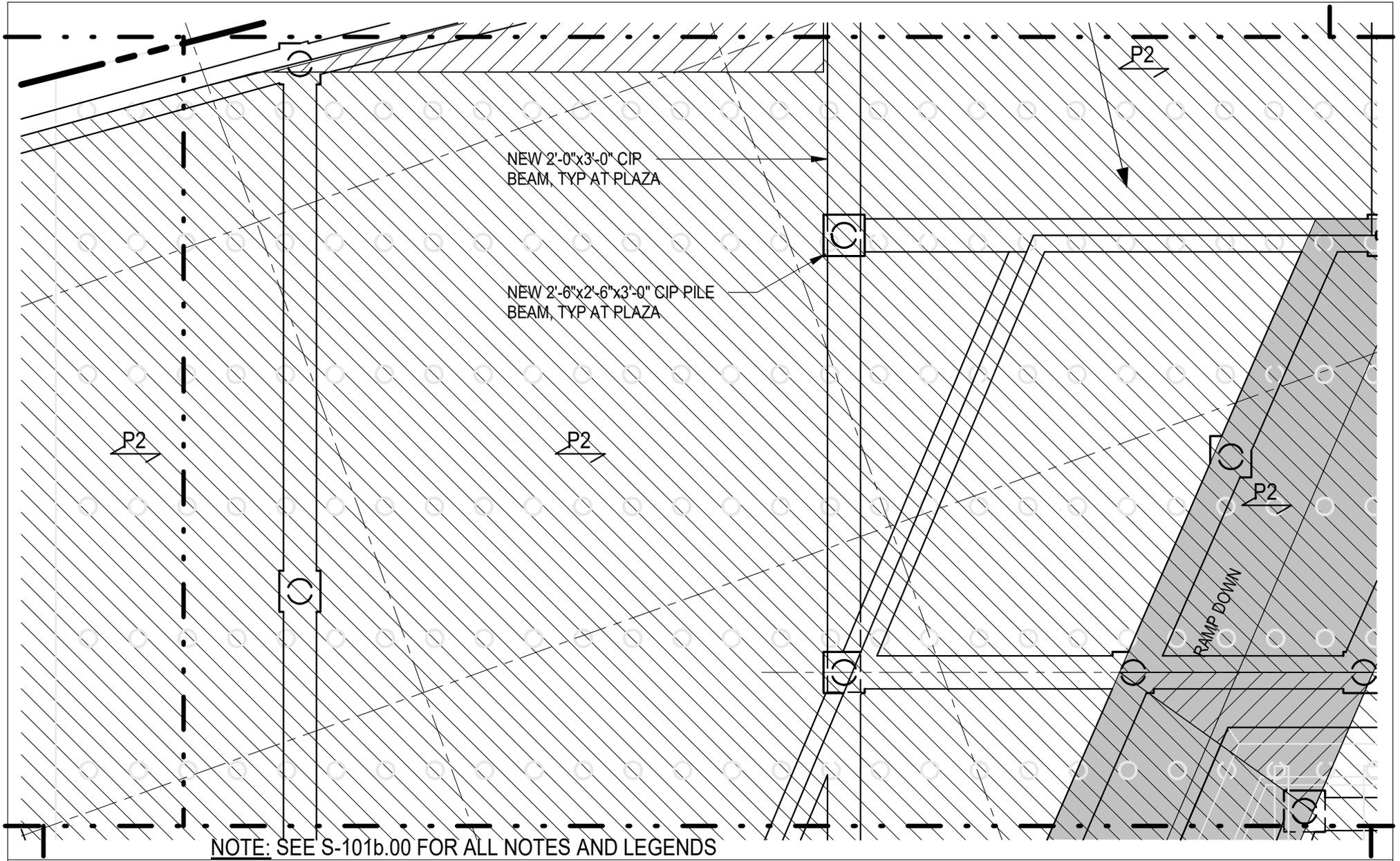
**FIRST FLOOR AND PLAZA FRAMING  
 PART PLAN - 7**

Project number NN20112  
 Date 02.02.2024

**S-101a. 07**

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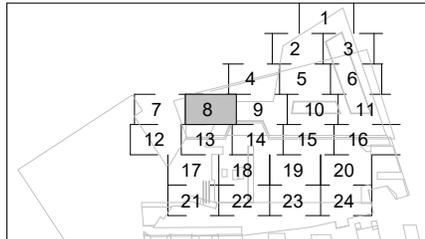


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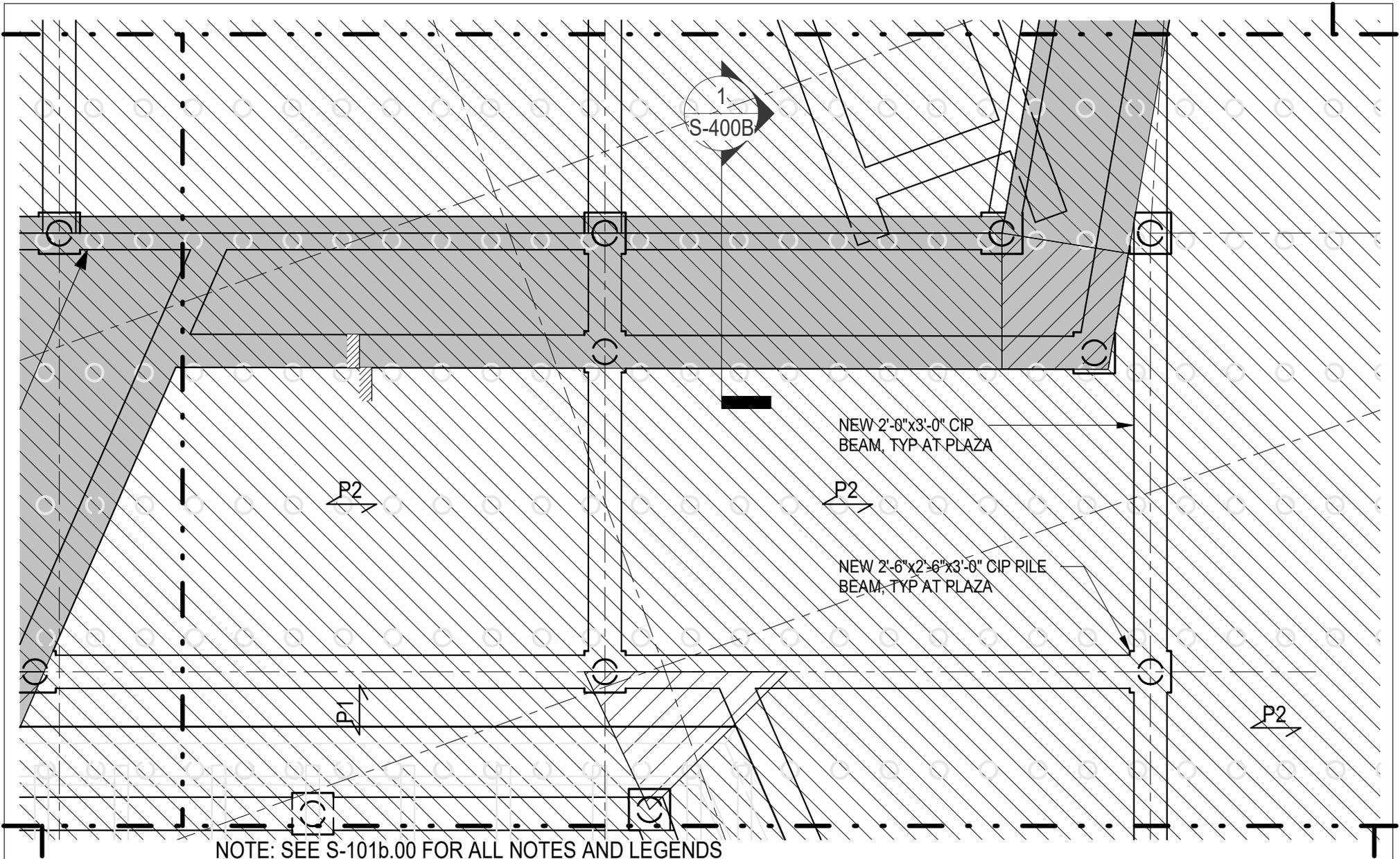


**FIRST FLOOR AND PLAZA FRAMING  
 PART PLAN - 8**

Project number NN20112  
 Date 02.02.2024

**S-101a. 08**

Scale 1/8" = 1'-0"

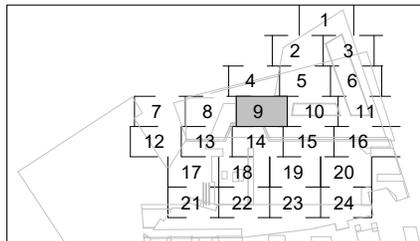


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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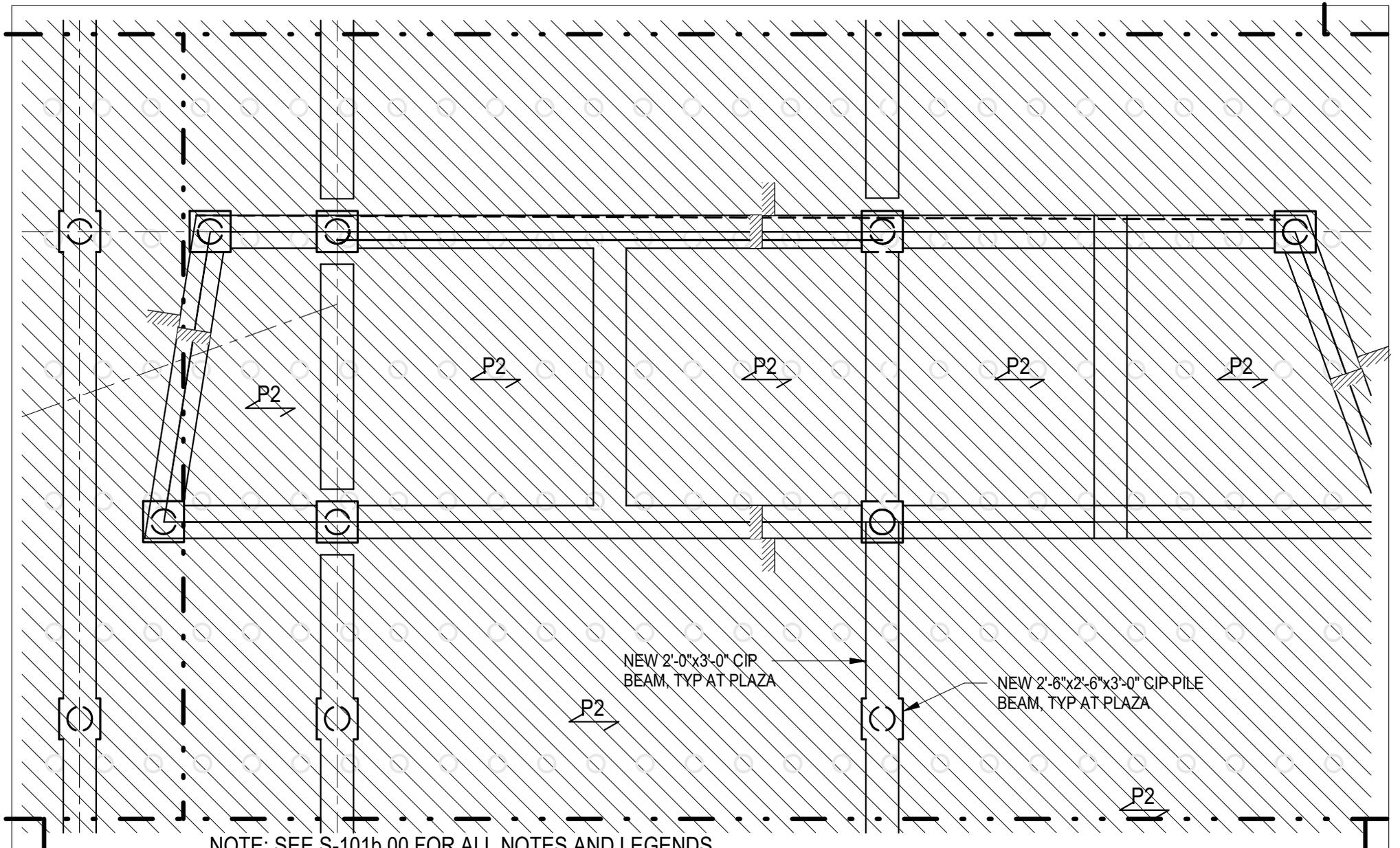
### FIRST FLOOR AND PLAZA FRAMING PART PLAN - 09

Project number NN20112

Date 02.02.2024

## S-101a. 09

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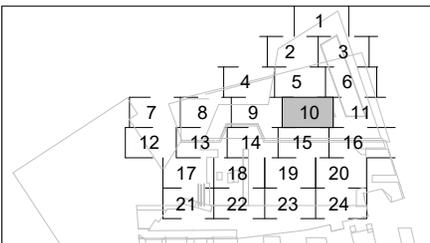


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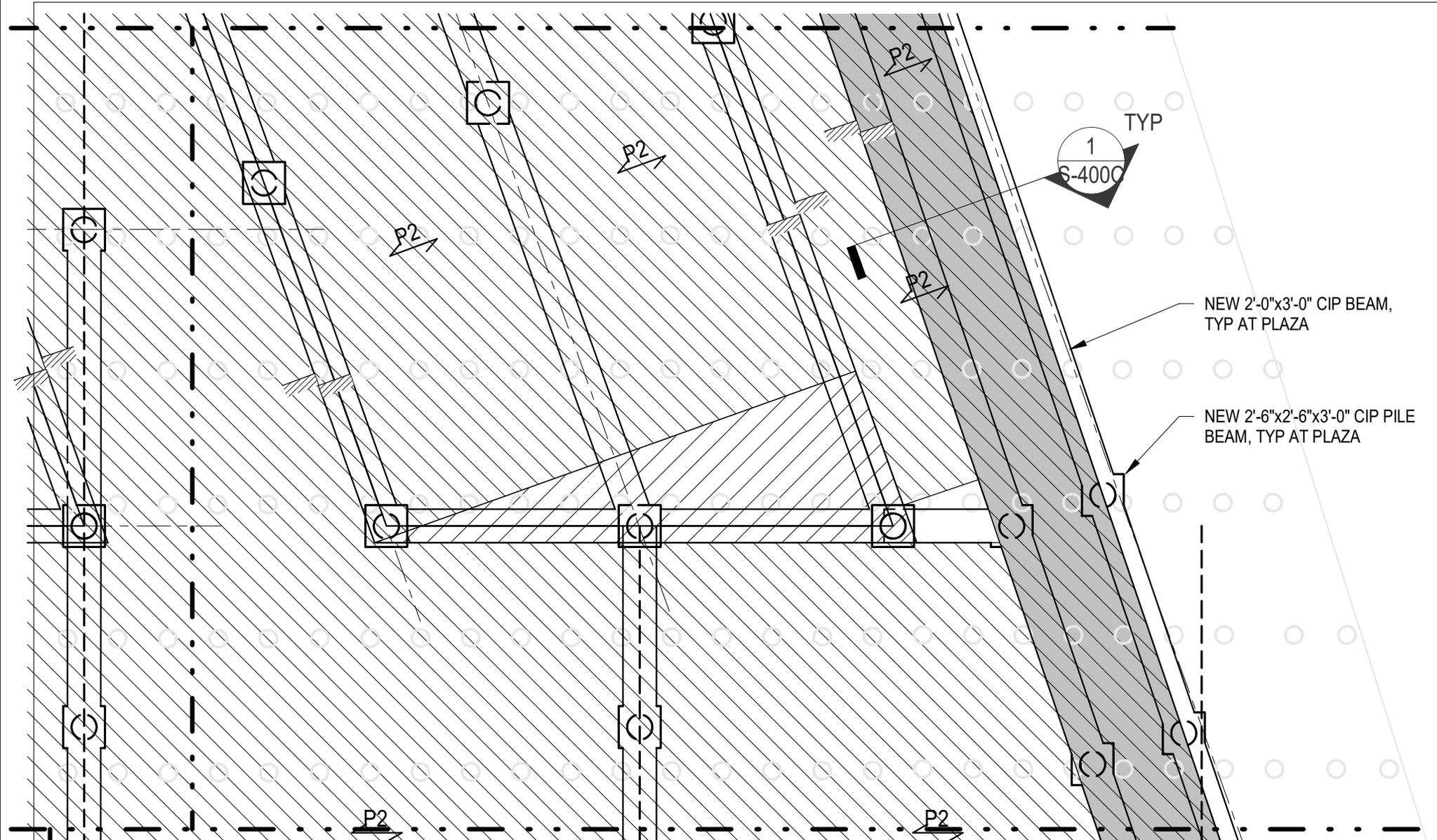


### FIRST FLOOR AND PLAZA FRAMING PART PLAN - 10

Project number NN20112  
 Date 02.02.2024

**S-101a. 10**  
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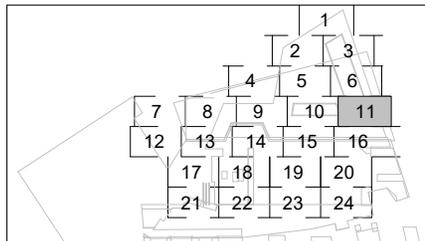


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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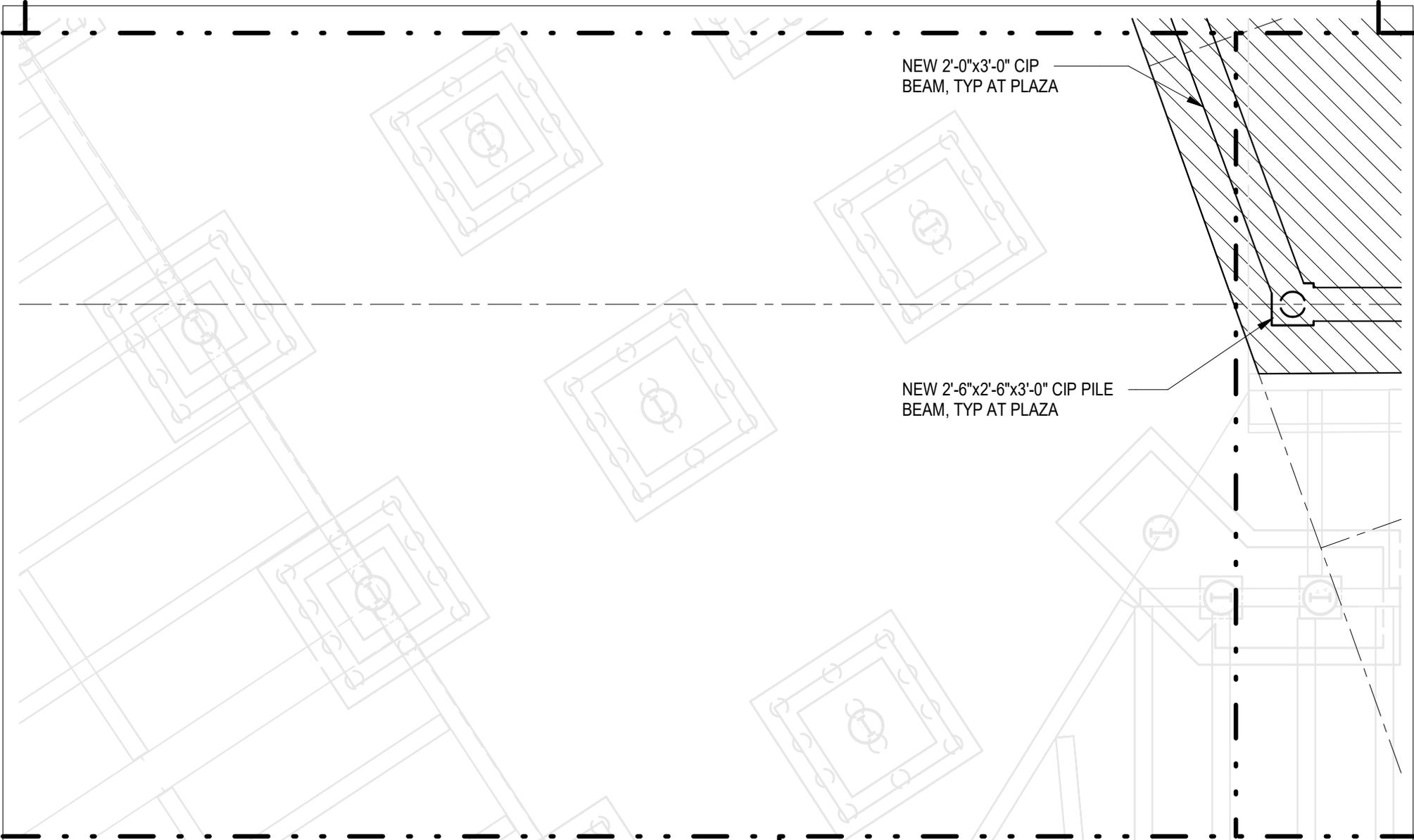


### FIRST FLOOR AND PLAZA FRAMING PART PLAN - 11

Project number	NN20112
Date	02.02.2024

## S-101a. 11

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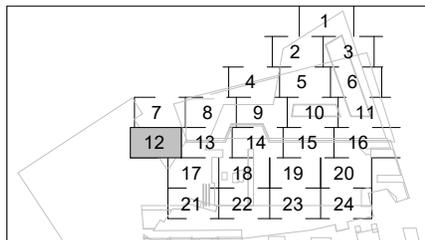


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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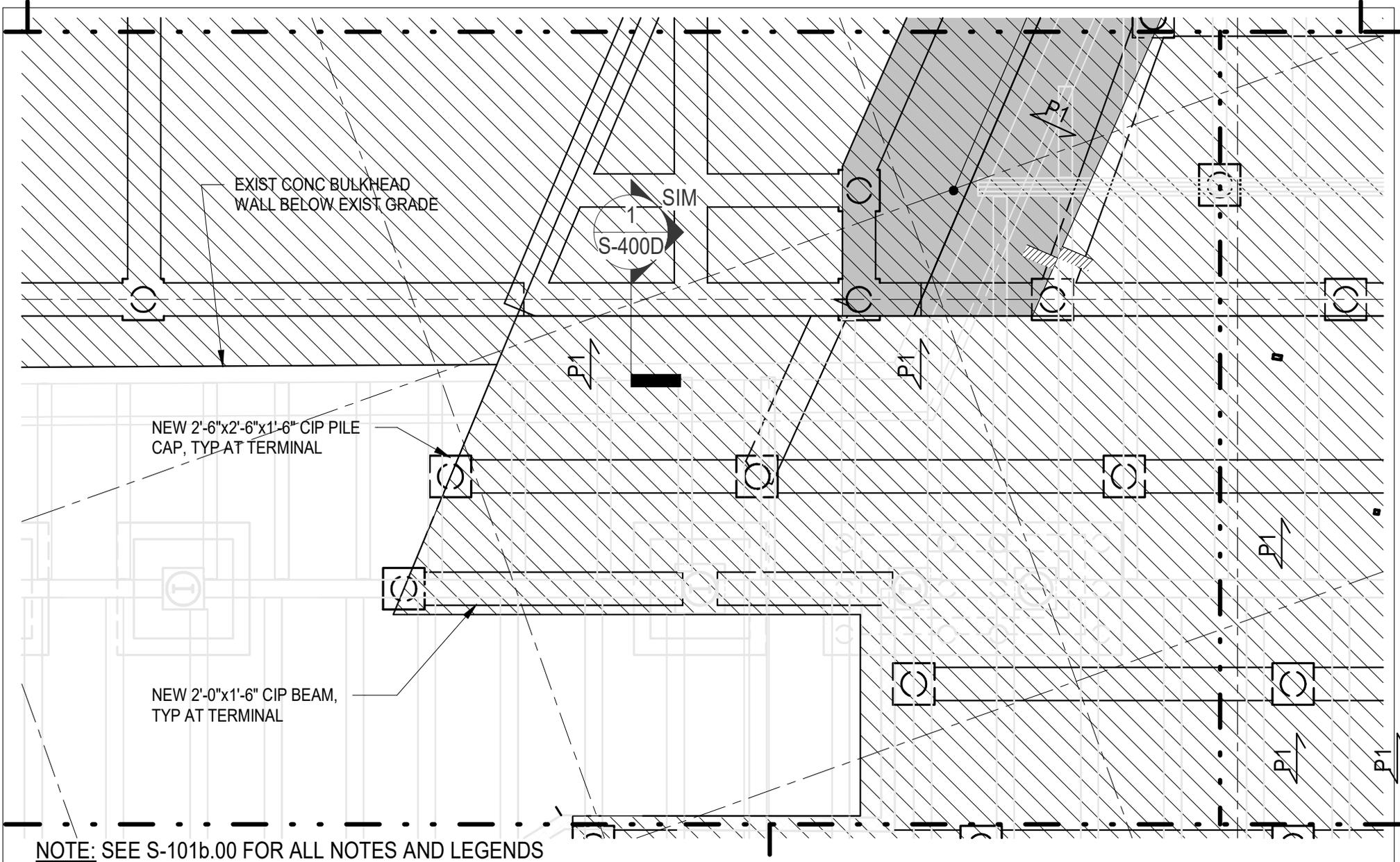
**FIRST FLOOR AND PLAZA FRAMING  
PART PLAN - 12**

Project number	NN20112
Date	02.02.2024

**S-101a. 12**

Scale 1/8" = 1'-0"

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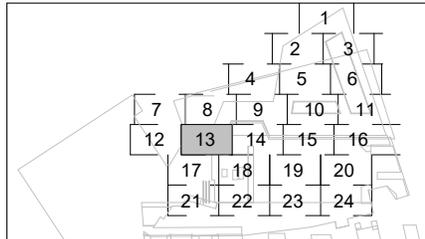


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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### FIRST FLOOR AND PLAZA FRAMING PART PLAN - 13

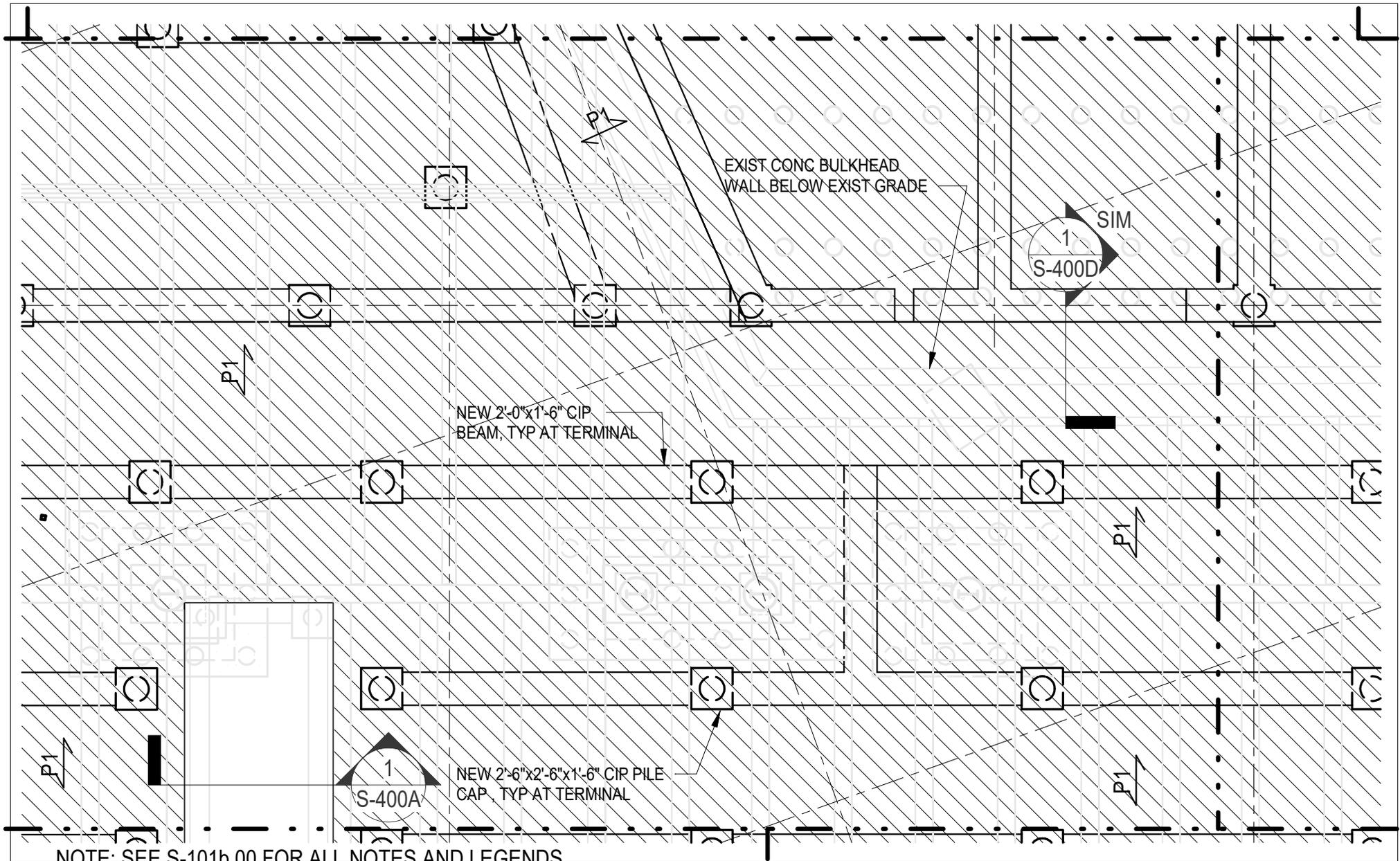
Project number NN20112

Date 02.02.2024

## S-101a. 13

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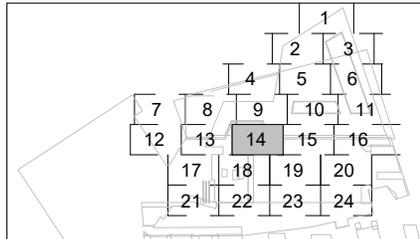


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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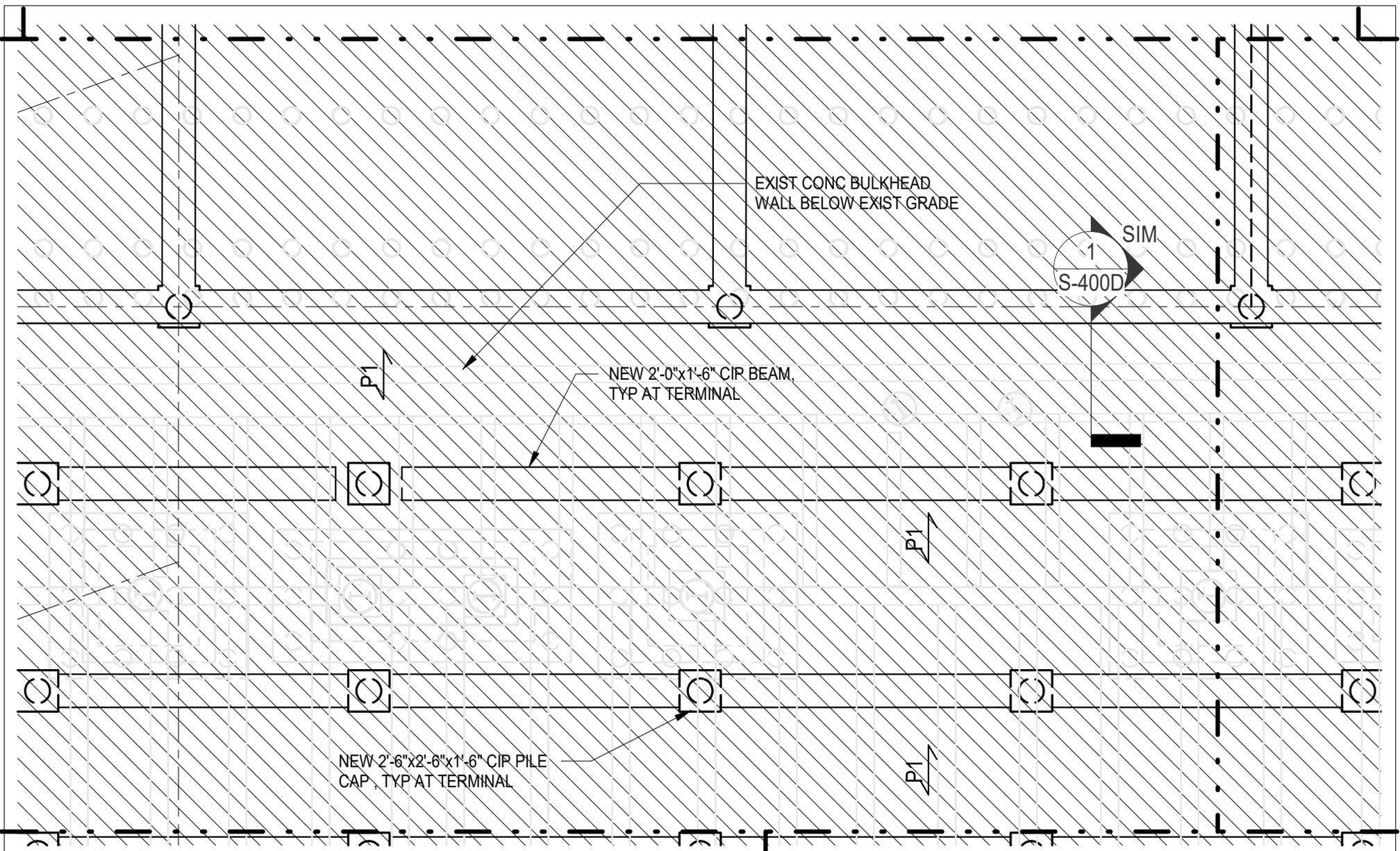
### FIRST FLOOR AND PLAZA FRAMING PART PLAN - 14

Project number NN20112

Date 02.02.2024

## S-101a. 14

Scale 1/8" = 1'-0"

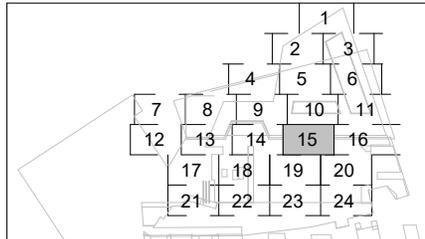


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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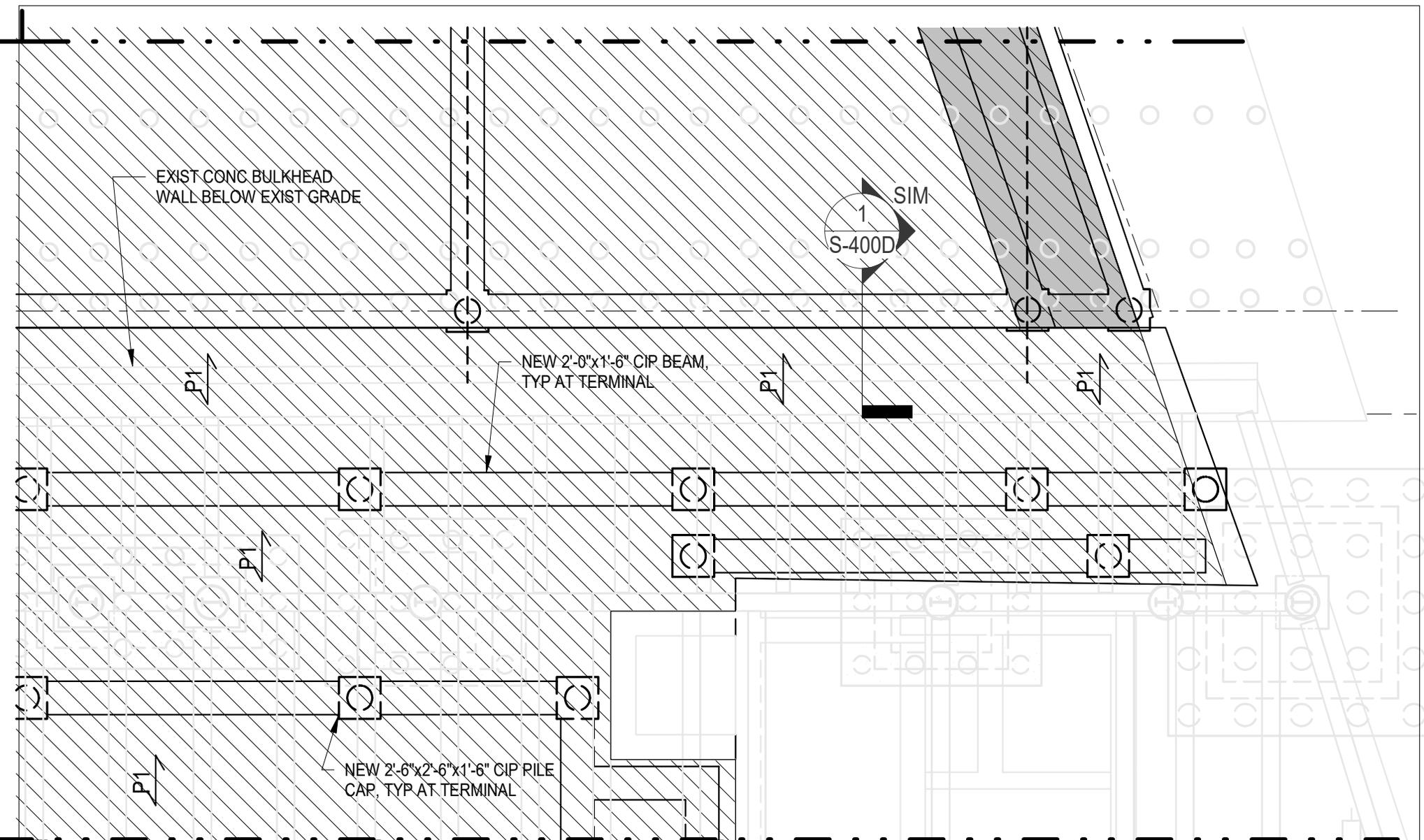


### FIRST FLOOR AND PLAZA FRAMING PART PLAN - 15

Project number	NN20112
Date	02.02.2024

## S-101a. 15

Scale 1/8" = 1'-0"

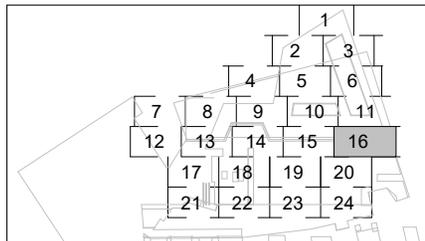


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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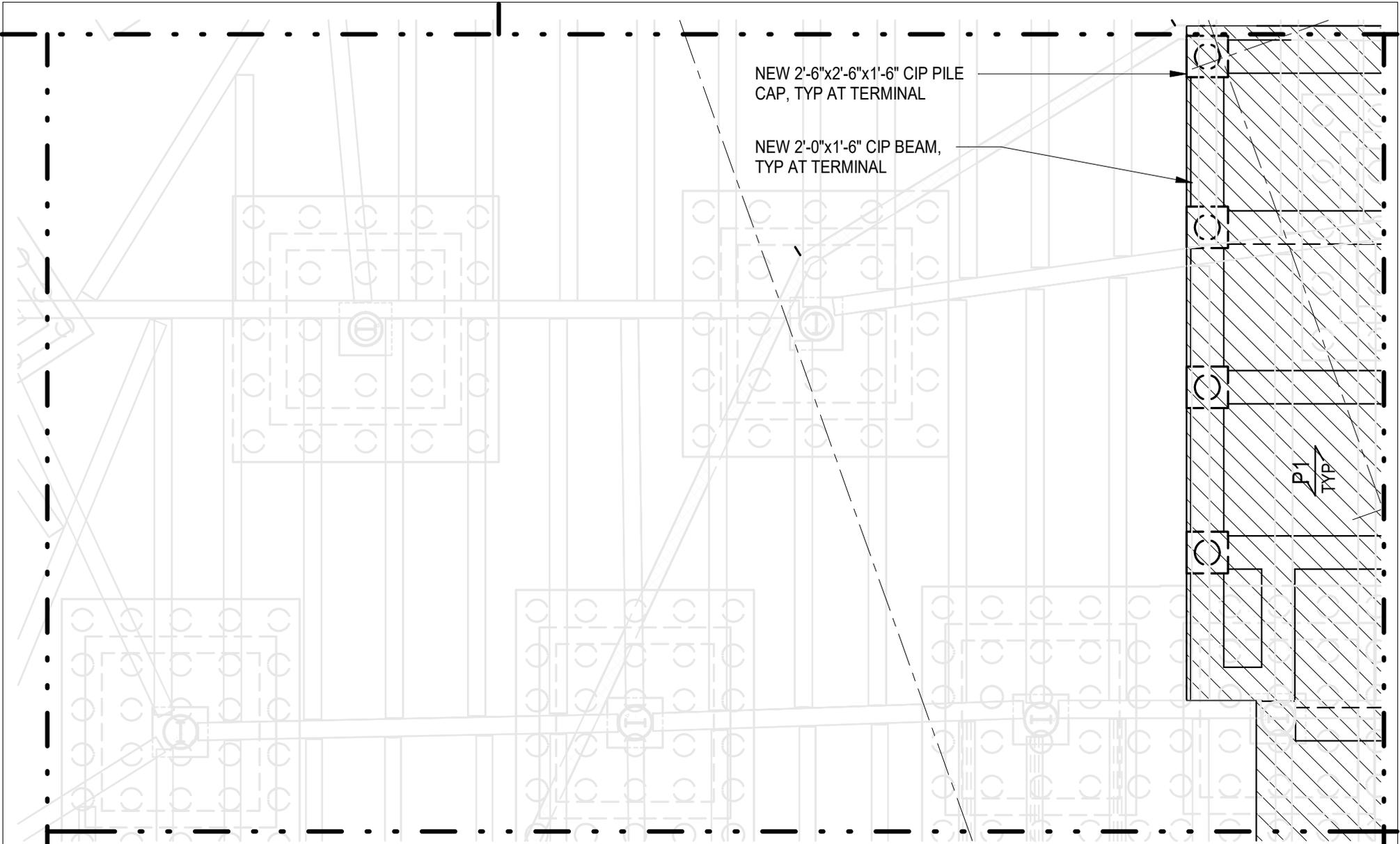


**FIRST FLOOR AND PLAZA FRAMING  
 PART PLAN - 16**

Project number NN20112  
 Date 02.02.2024

**S-101a. 16**

Scale 1/8" = 1'-0"

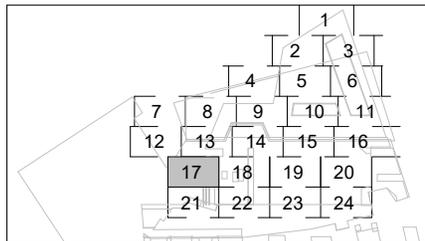


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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USACE SUBMISSION



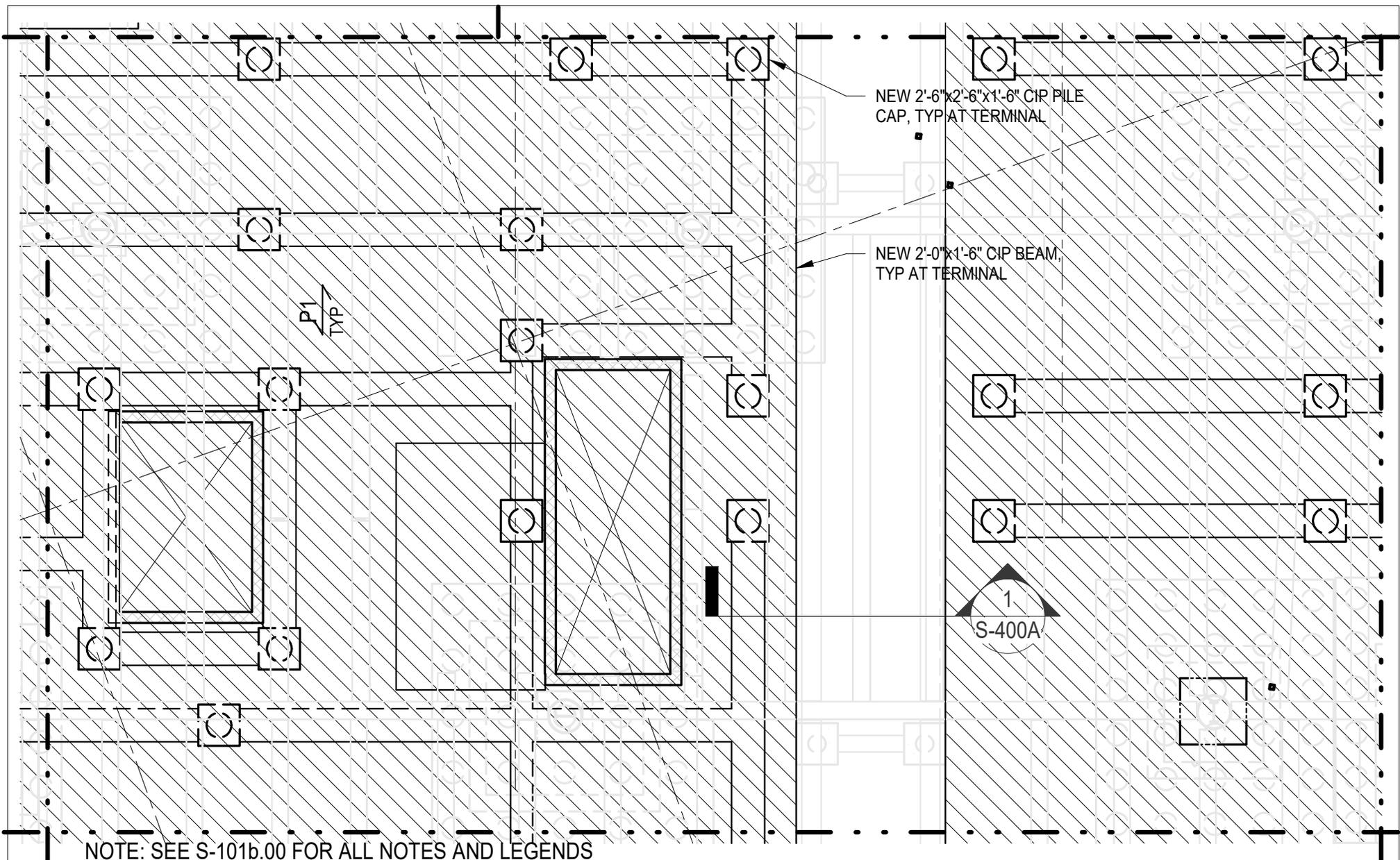
### FIRST FLOOR AND PLAZA FRAMING PART PLAN - 17

Project number	NN20112
Date	02.02.2024

## S-101a. 17

Scale 1/8" = 1'-0"

2/7/2024 10:22:40 AM

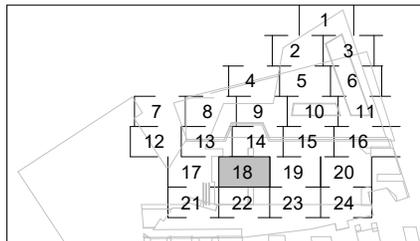


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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REDEVELOPMENT:  
HOBOKEN FERRY  
TERMINAL  
USACE SUBMISSION

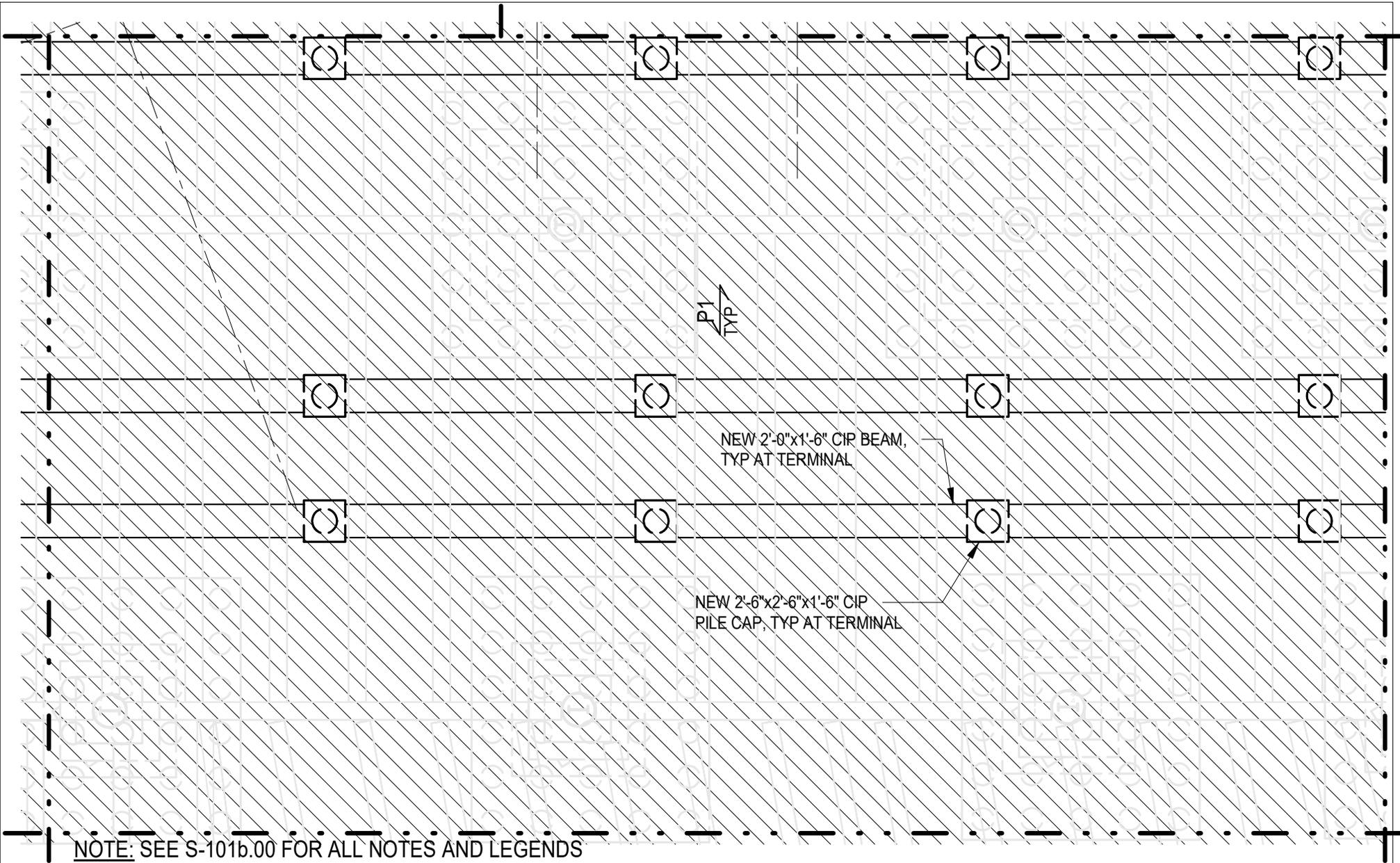


**FIRST FLOOR AND PLAZA FRAMING  
PART PLAN - 18**

Project number NN20112  
Date 02.02.2024

**S-101a. 18**

Scale 1/8" = 1'-0"

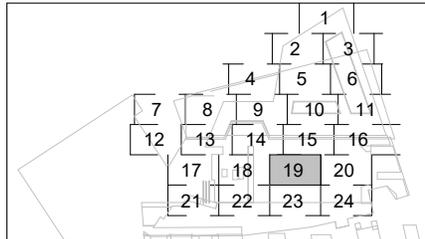


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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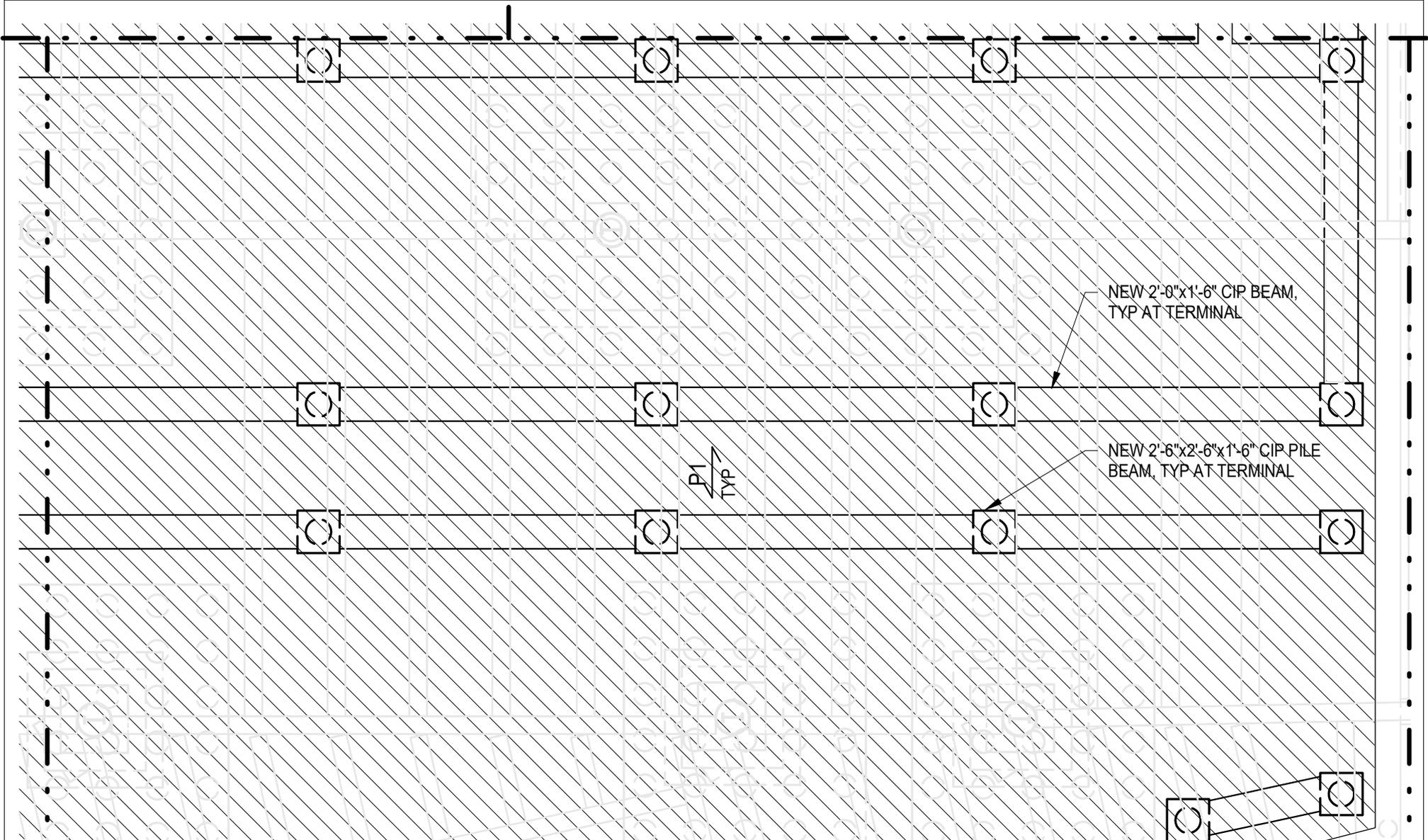
**FIRST FLOOR AND PLAZA FRAMING  
 PART PLAN - 19**

Project number NN20112  
 Date 02.02.2024

**S-101a. 19**

Scale 1/8" = 1'-0"

2/7/2024 10:22:41 AM

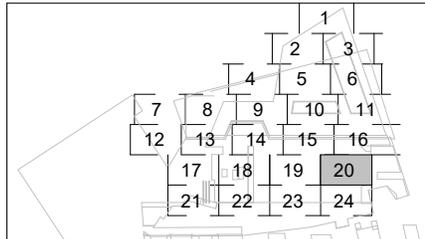


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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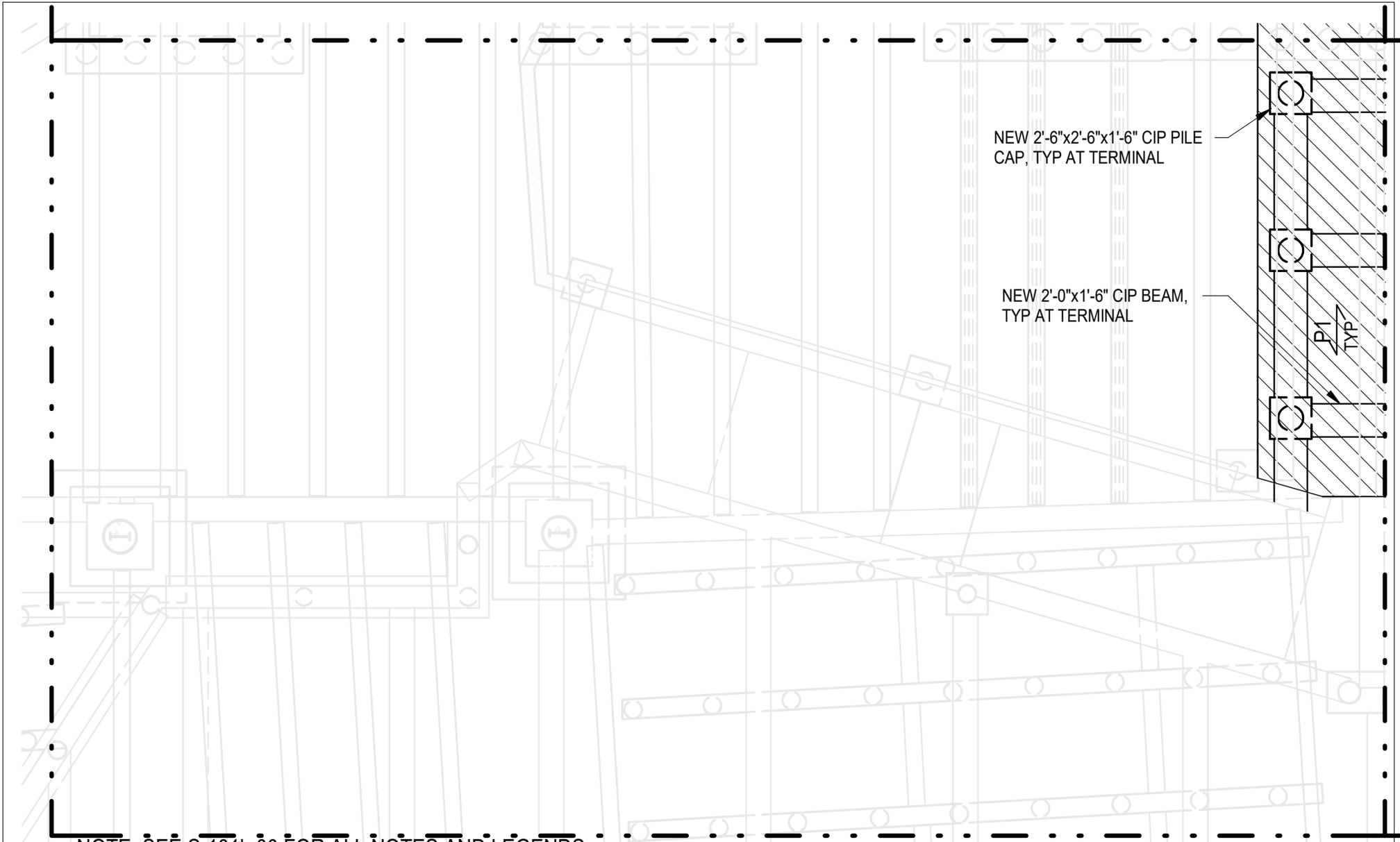


### FIRST FLOOR AND PLAZA FRAMING PART PLAN - 20

Project number	NN20112
Date	02.02.2024

## S-101a. 20

Scale 1/8" = 1'-0"

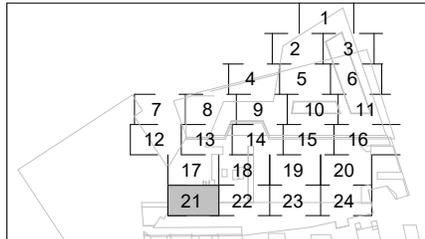


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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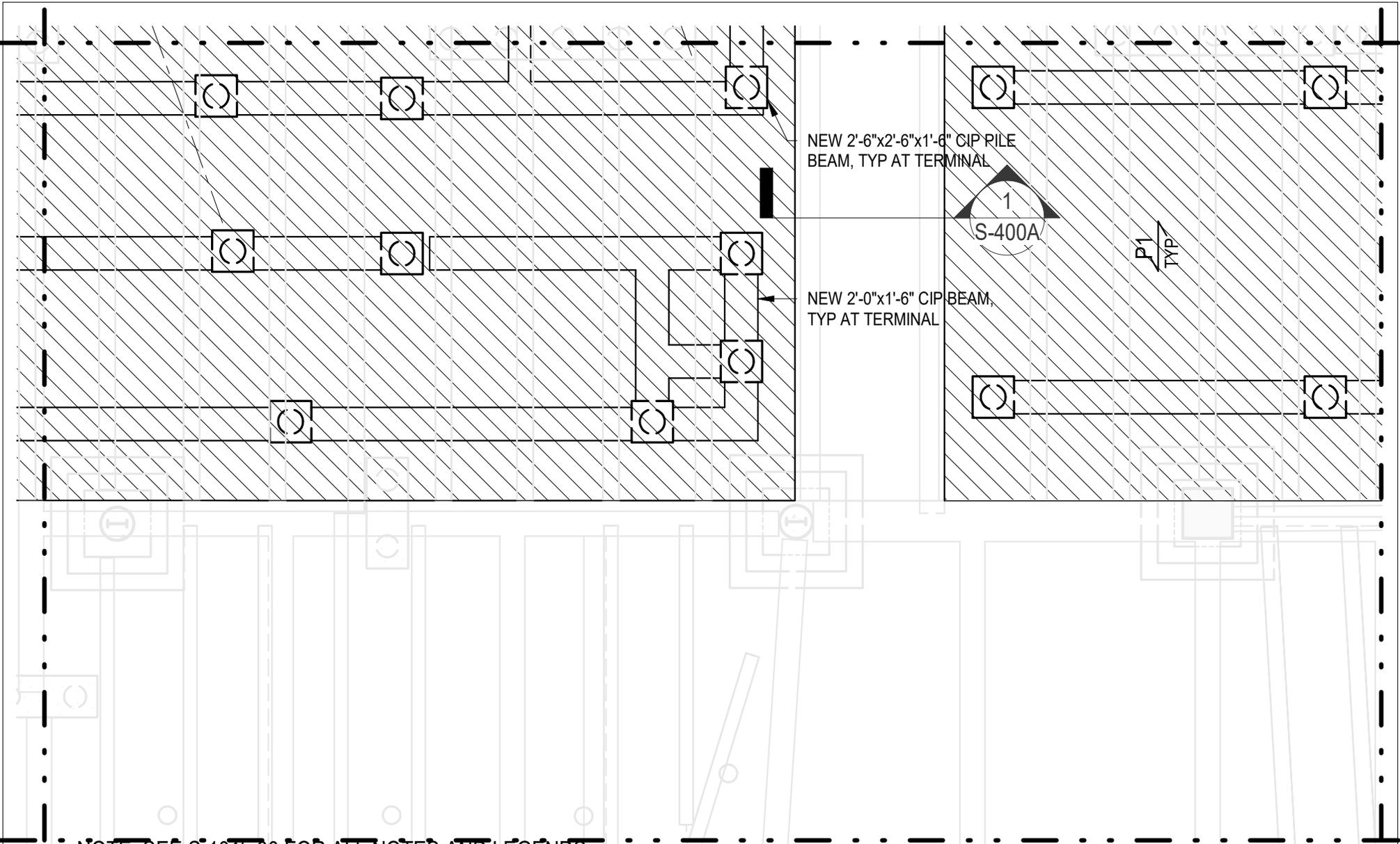
### FIRST FLOOR AND PLAZA FRAMING PART PLAN - 21

Project number	NN20112
Date	02.02.2024

## S-101a. 21

Scale 1/8" = 1'-0"

2/7/2024 10:22:42 AM

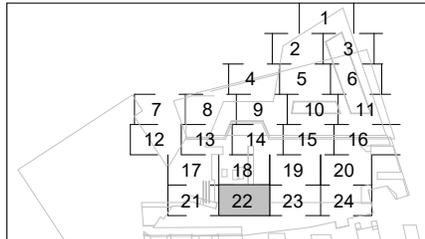


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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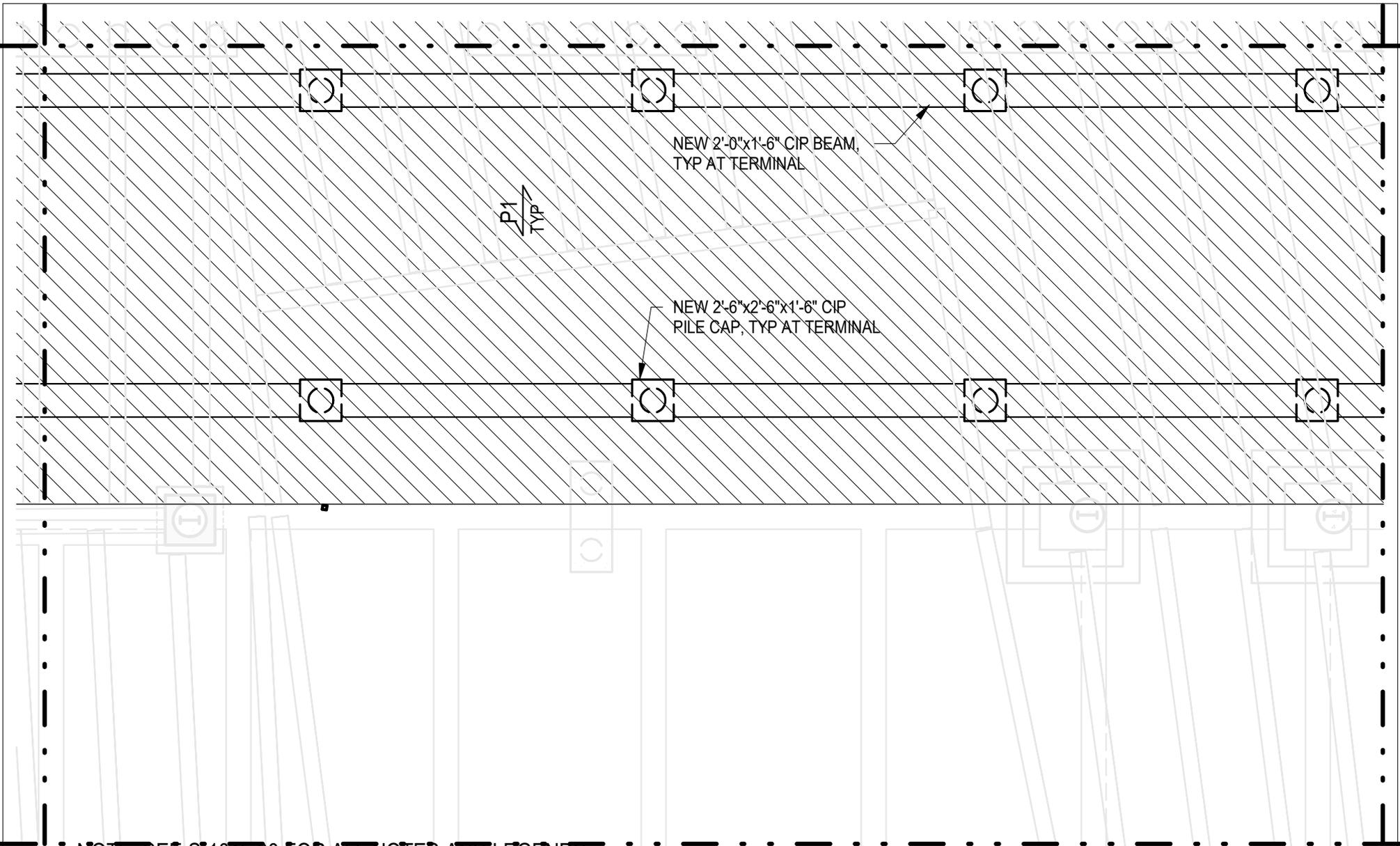


**FIRST FLOOR AND PLAZA FRAMING  
 PART PLAN - 22**

Project number NN20112  
 Date 02.02.2024

**S-101a. 22**

Scale 1/8" = 1'-0"

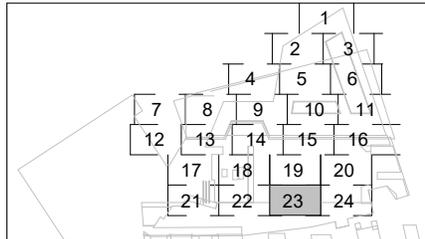


NOTE: SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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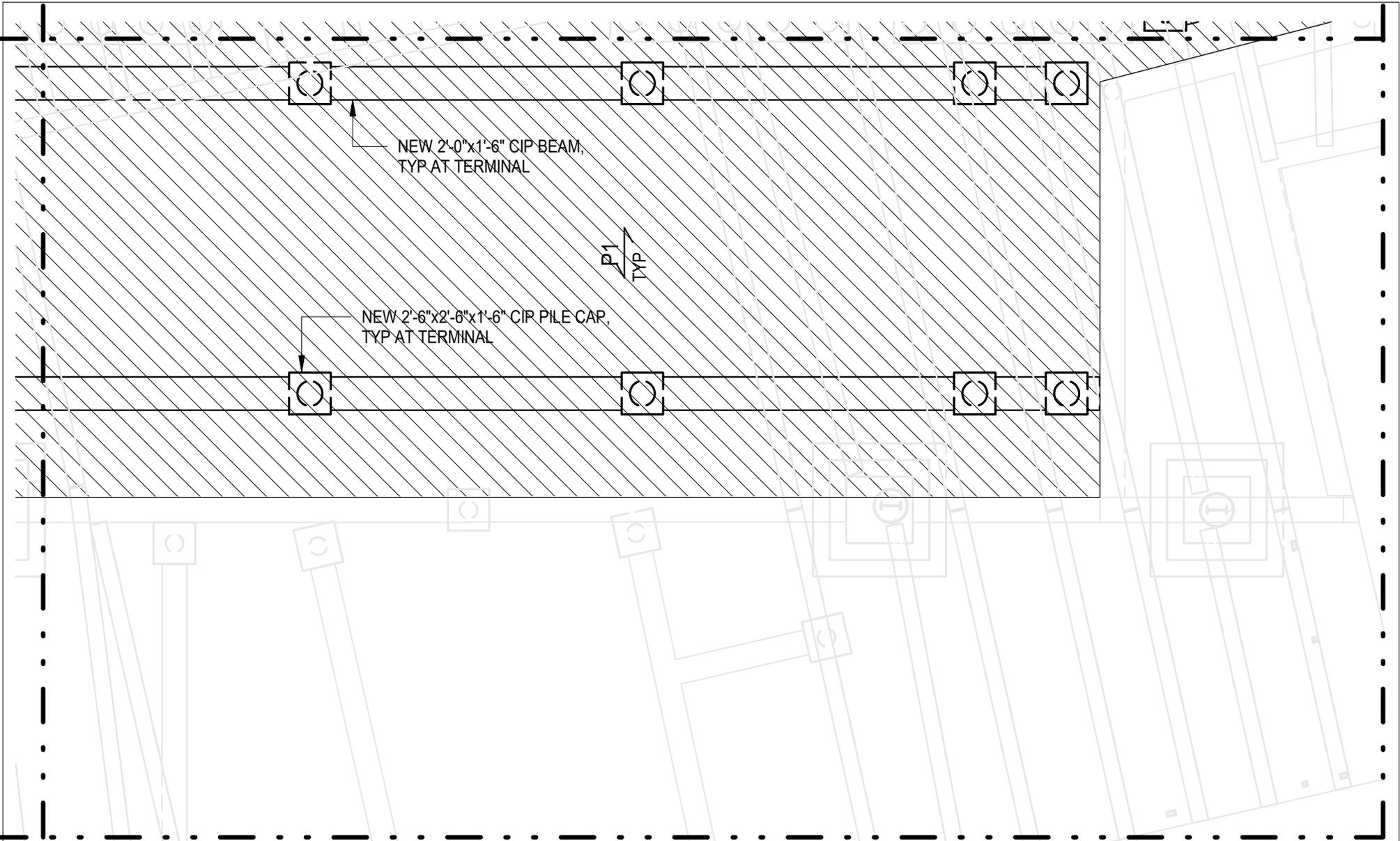
### FIRST FLOOR AND PLAZA FRAMING PART PLAN - 23

Project number NN20112

Date 02.02.2024

## S-101a. 23

Scale 1/8" = 1'-0"

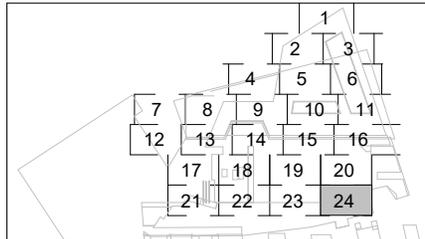


**NOTE:** SEE S-101b.00 FOR ALL NOTES AND LEGENDS

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**FIRST FLOOR AND PLAZA FRAMING  
 PART PLAN - 24**

Project number NN20112  
 Date 02.02.2024

**S-101a. 24**

Scale 1/8" = 1'-0"

**NOTES:**

1. EXISTING STRUCTURE SHOWN IN HALF-TONE. NEW WORK IS SHOWN IN FULL-TONE. REFER TO EXISTING DRAWINGS FOR ADDITIONAL INFORMATION ON EXISTING STRUCTURE.
2. REFER TO S-4XX & S-5XX DWGS FOR ADDITIONAL NOTES AND DETAILS.
3. REFER TO NJ TRANSIT INSPECTION REPORT. RENOVATION WORK IS INDEPENDENT OF THE RECOMMENDATIONS OF THE AFOREMENTIONED DOCUMENT.
4. EXISTING CONDITIONS & DIMENSIONS TO BE VERIFIED IN FIELD.
5. REFER TO S-200 FOR TYPICAL PILE DETAILS AND SCHEDULE.
6. TOTAL APPROXIMATE CROSS-SECTIONAL AREA OF PILES IN WATER BASED ON MUDLINE IN SECTION 1/S-301A = 220 FT<sup>2</sup>
7. TOTAL APPROXIMATE VOLUME OF WATER DISPLACED BY PILES BASED ON MUDLINE IN SECTION 1/S-301A = 68 YD<sup>3</sup>

**LEGEND:**

-  EXISTING COLUMN NUMBER.
- PC1** - EXISTING PILE CAP TYPE
- G1** - EXISTING GIRDER NUMBER
- FB1** - EXISTING FLOOR BEAM NUMBER
-  PROPOSED PROBE LOCATION.
-  PROBE LOCATION NUMBER
-  EXTENT OF NEW RENOVATION
-  NEW PRECAST HOLLOW CORE PLANK SPAN DIRECTION
- P1** INDICATES 6" PRECAST HOLLOW CORE PLANK W/ 2" LIGHTWEIGHT CONCRETE TOPPING
- P2** INDICATES 6" PRECAST HOLLOW CORE PLANK W/ 2" LIGHTWEIGHT CONCRETE TOPPING

**Thornton Tomasetti**

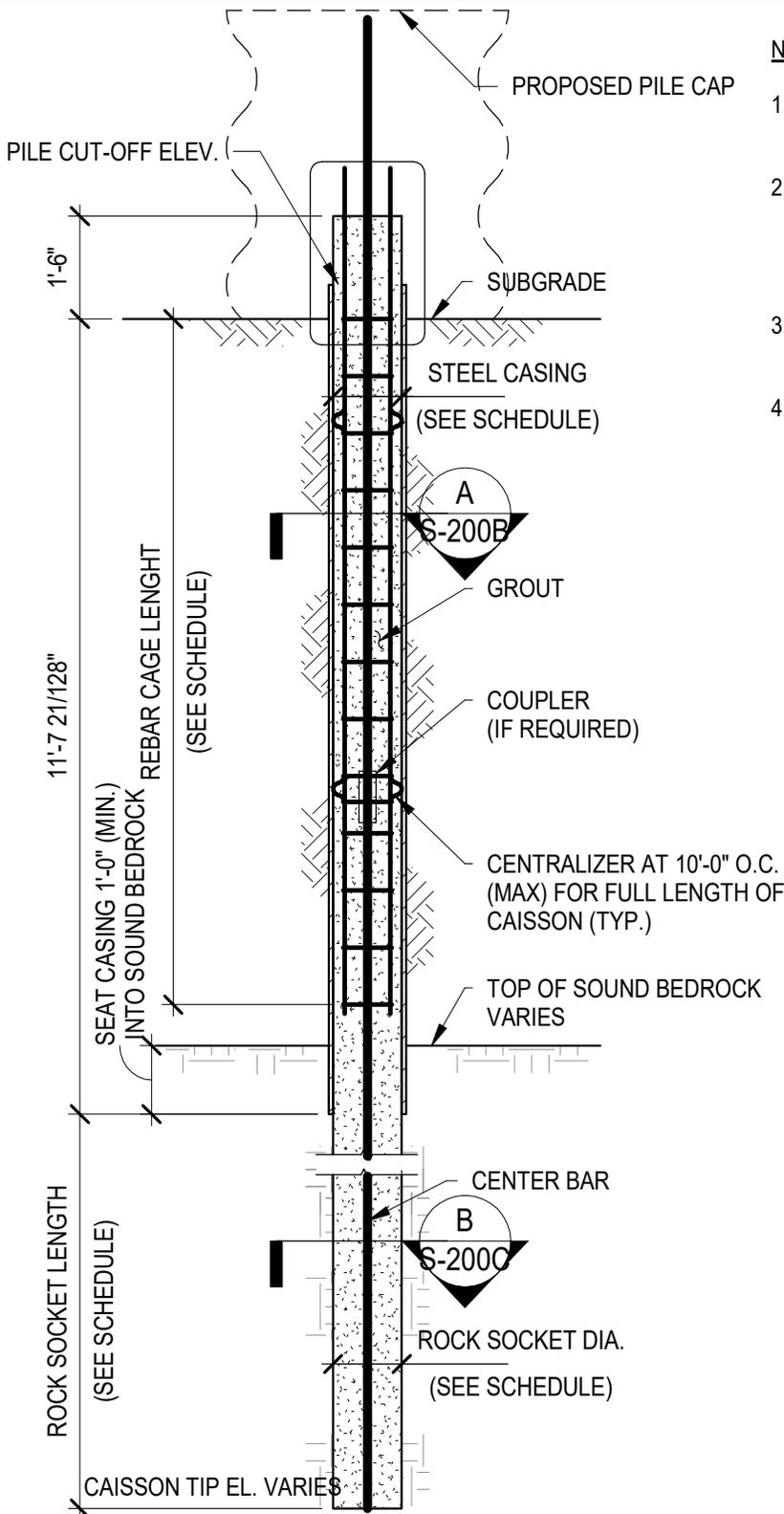
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**NOTES AND LEGENDS**

Project number	NN20112	<b>S-101b.00</b>
Date	02.02.2024	
		Scale 1" = 1'-0"

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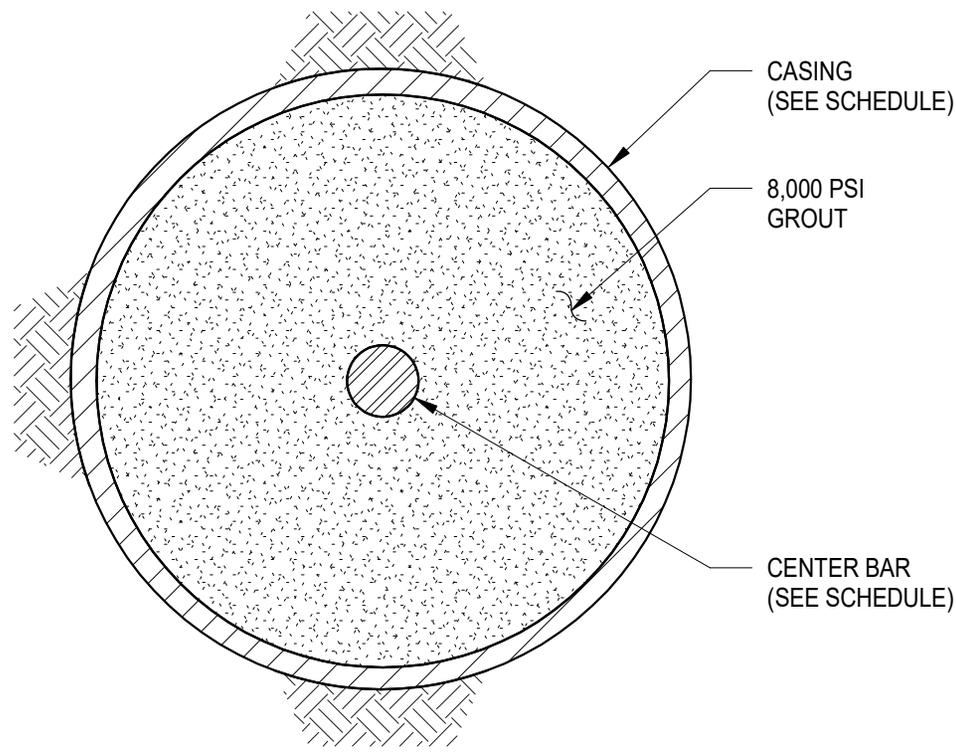


**NOTES:**

1. STEEL CASING SHALL CONFORM TO ASTM A252 GRADE 3 (Fy = 45 KSI) AS INDICATED IN THE CAISSON SCHEDULE.
2. CASING JOINTS (IF ANY) SHALL BE FLUSH WITH THE OUTSIDE DIAMETER OF THE CASING AND SHALL BE FULL PENETRATION WELDED ALL AROUND TO DEVELOP THE FULL COMPRESSION AND BENDING CAPACITIES OF THE CASING.
3. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 8,000 PSI AT 28 DAYS.
4. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615 GRADE 75. REBAR COUPLERS (IF REQUIRED) SHALL DEVELOP THE FULL ULTIMATE TENSILE STRENGTH OF THE BAR. COUPLERS ON MULTIPLE REBARS SHALL BE STAGGERED A MINIMUM OF 5 FEET.

**1 TYPICAL CAISSON DETAIL - ELEVATION**  
3/8" = 1'-0"

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		<p>Project number NN20112</p>	<p><b>S-200A</b></p>
<p>www.autodesk.com/revit</p>	<p>USACE SUBMISSION</p>	<p>Date 02.02.2024</p>	<p>Scale As indicated</p>



**NOTES:**

1. STEEL CASING SHALL CONFORM TO ASTM A252 GRADE 3 (Fy = 45 KSI) AS INDICATED IN THE CAISSON SCHEDULE.
2. CASING JOINTS (IF ANY) SHALL BE FLUSH WITH THE OUTSIDE DIAMETER OF THE CASING AND SHALL BE FULL PENETRATION WELDED ALL AROUND TO DEVELOP THE FULL COMPRESSION AND BENDING CAPACITIES OF THE CASING.
3. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 8,000 PSI AT 28 DAYS.
4. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615 GRADE 75. REBAR COUPLERS (IF REQUIRED) SHALL DEVELOP THE FULL ULTIMATE TENSILE STRENGTH OF THE BAR. COUPLERS ON MULTIPLE REBARS SHALL BE STAGGERED A MINIMUM OF 5 FEET.

TYPE 1 AND 2

**A SECTION**  
3/4" = 1'-0"

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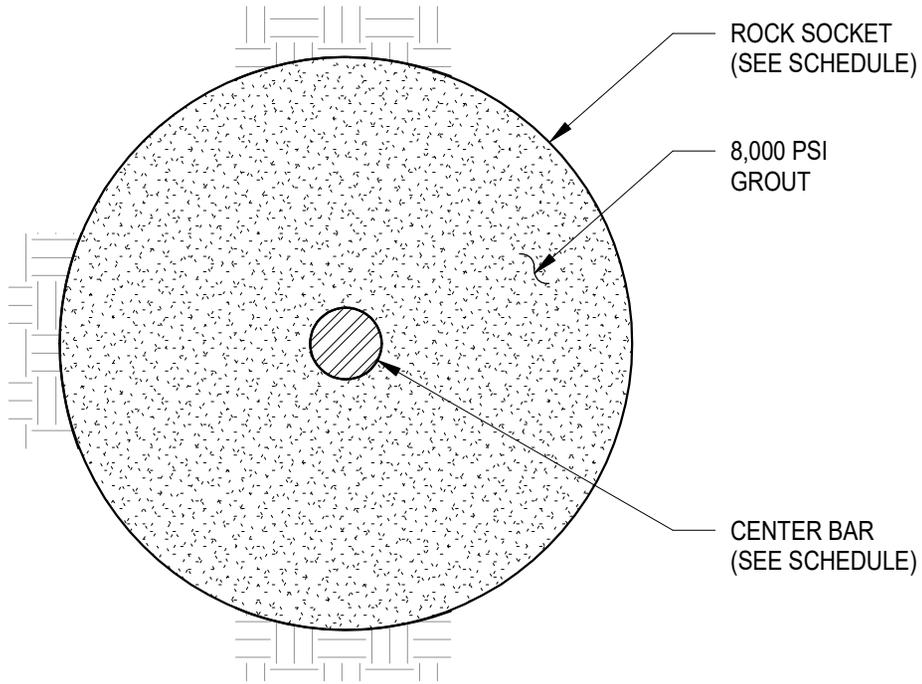
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**TYPICAL PILE DETAILS AND SCHEDULE**

Project number	NN20112	<b>S-200B</b>
Date	02.02.2024	
Scale		3/4" = 1'-0"

2/7/2024 10:22:43 AM



TYPE 1 AND 2

NOTES:

1. STEEL CASING SHALL CONFORM TO ASTM A252 GRADE 3 (Fy = 45 KSI) AS INDICATED IN THE CAISSON SCHEDULE.
2. CASING JOINTS (IF ANY) SHALL BE FLUSH WITH THE OUTSIDE DIAMETER OF THE CASING AND SHALL BE FULL PENETRATION WELDED ALL AROUND TO DEVELOP THE FULL COMPRESSION AND BENDING CAPACITIES OF THE CASING.
3. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 8,000 PSI AT 28 DAYS.
4. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615 GRADE 75. REBAR COUPLERS (IF REQUIRED) SHALL DEVELOP THE FULL ULTIMATE TENSILE STRENGTH OF THE BAR. COUPLERS ON MULTIPLE REBARS SHALL BE STAGGERED A MINIMUM OF 5 FEET.

**B** SECTION  
3/4" = 1'-0"

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**TYPICAL PILE DETAILS AND SCHEDULE**

Project number	NN20112
Date	02.02.2024

**S-200C**  
Scale 3/4" = 1'-0"

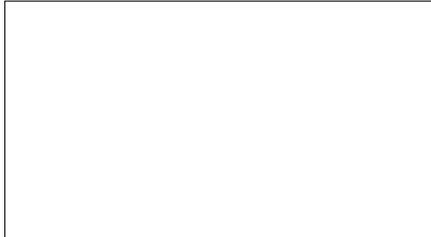
CAISSON TYPE	DESIGN SERVICE LOADS (TONS)		CAISSON HEAD CONDITION	OUTSIDE DIAMETER OF CASING (IN)	THICKNESS OF CASING (IN)	GRADE OF CASING
	COMPRESSION	LATERAL				
1	150	11	FREE HEAD	18	0.625	45
2	75	5	FREE HEAD	18	0.625	45
CAISSON TYPE	REBAR CAGE (GRADE 75)	REBAR CAGE LENGTH (FT)	CENTER BAR (GRADE 75)	ROCK SOCKET LENGTH (FT)*	ROCK SOCKET DIAMETER (FT)*	
1	--	--	1-#18	10	16	
2	--	--	1-#18	5	16	

\*ROCK SOCKET LENGTH SHALL BE CONFIRMED BY LOAD TESTING

**1 CAISSON SCHEDULE**  
NOT TO SCALE

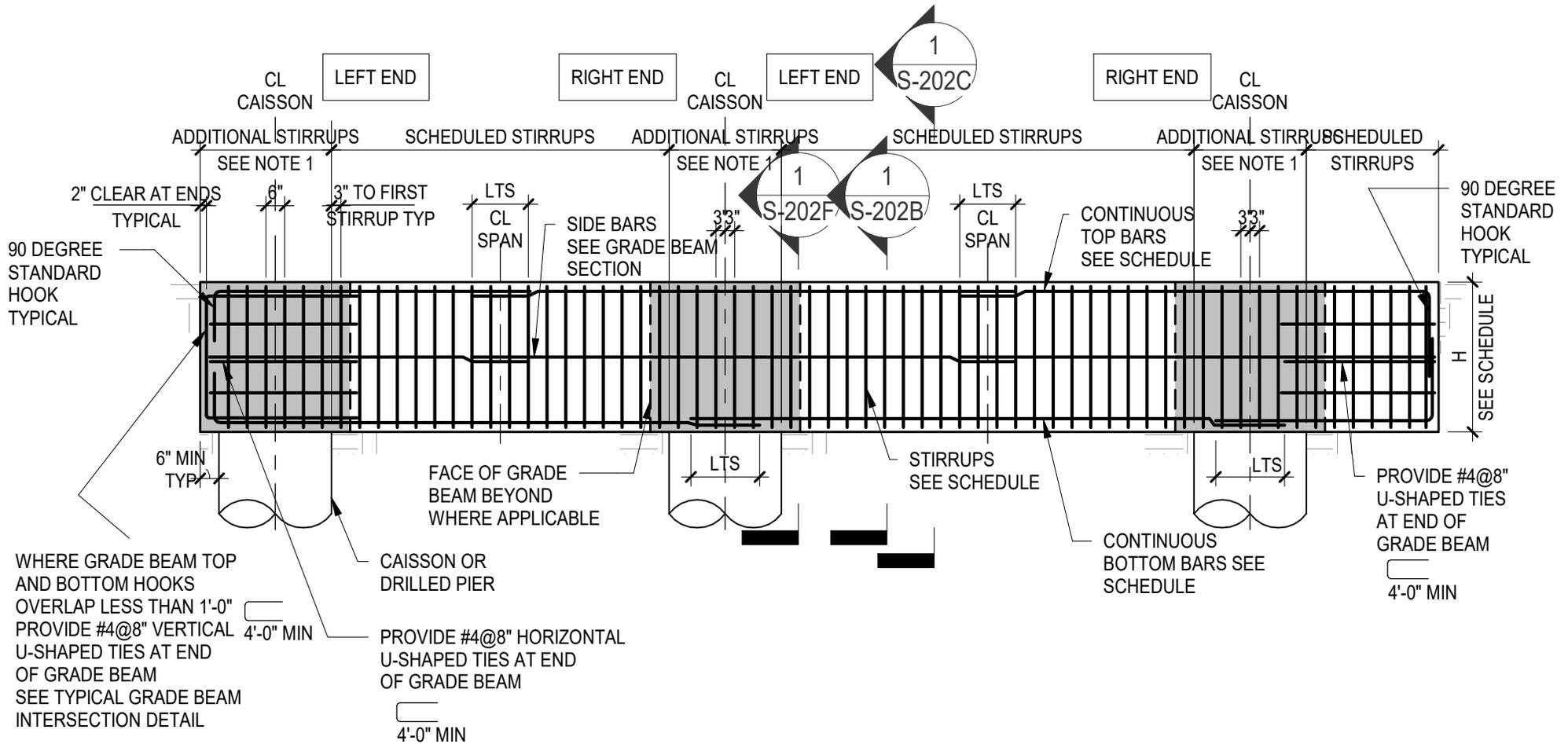
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TYPICAL PILE DETAILS AND SCHEDULE		
Project number	NN20112	<b>S-200D</b> Scale NOT TO SCALE
Date	02.02.2024	

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**NOTES:**

1. PROVIDE #4@6" TYPE 2A STIRRUPS OVER CAISSON SUPPORT TYPICAL

**1 TYPICAL GRADE BEAM ELEVATION**  
1/4" = 1'-0"

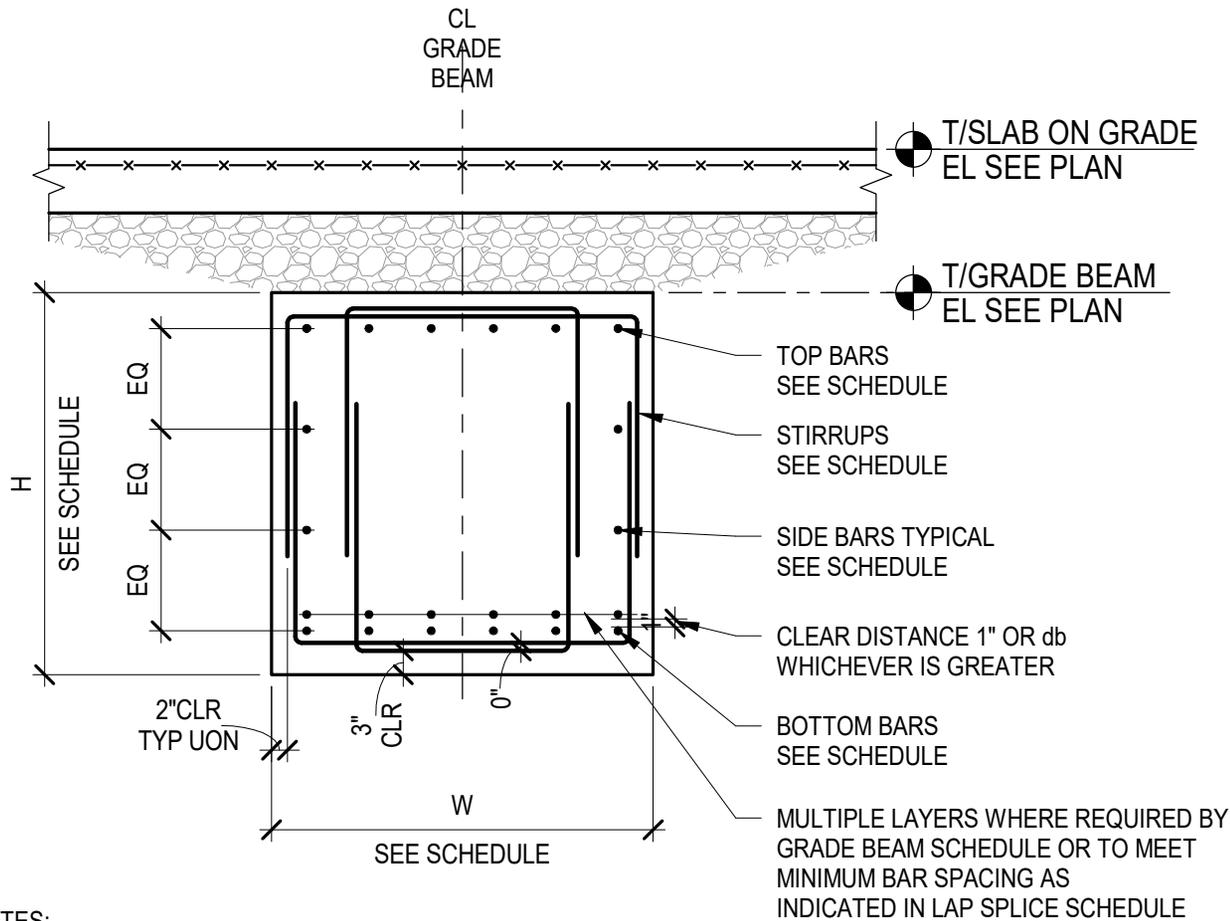
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**TYPICAL GRADE BEAM ELEVATION**

Project number	NN20112	<b>S-202A</b>
Date	02.02.2024	
Scale		1/4" = 1'-0"

2/7/2024 10:22:44 AM



**NOTES:**

- 1. IF H IS GREATER THAN 24" PROVIDE SIDE BARS #5@10" MINIMUM UON IN SCHEDULE

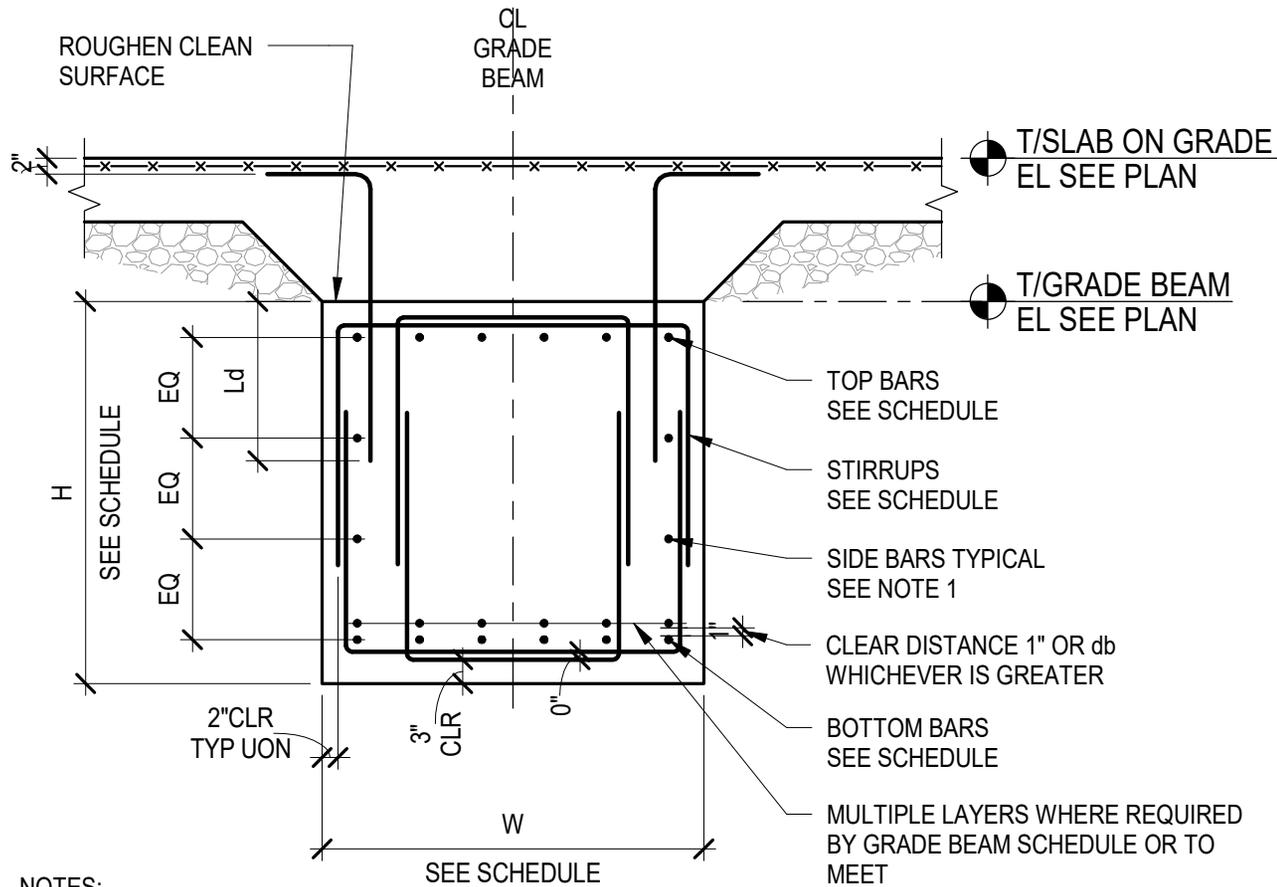
**1 GRADE BEAM SECTION - TYPICAL**  
NOT TO SCALE

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TYPICAL GRADE BEAM DETAILS		
Project number	NN20112	<b>S-202B</b> Scale NOT TO SCALE
Date	02.02.2024	

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**NOTES:**

- IF H IS GREATER THAN 24" PROVIDE SIDE BARS #5@10" MINIMUM UON IN SCHEDULE

MULTIPLE LAYERS WHERE REQUIRED BY GRADE BEAM SCHEDULE OR TO MEET MINIMUM BAR SPACING AS INDICATED IN LAP SPLICE SCHEDULE

# GRADE BEAM SECTION - BASE SHEAR TRANSFER CONDITION

1

NOT TO SCALE

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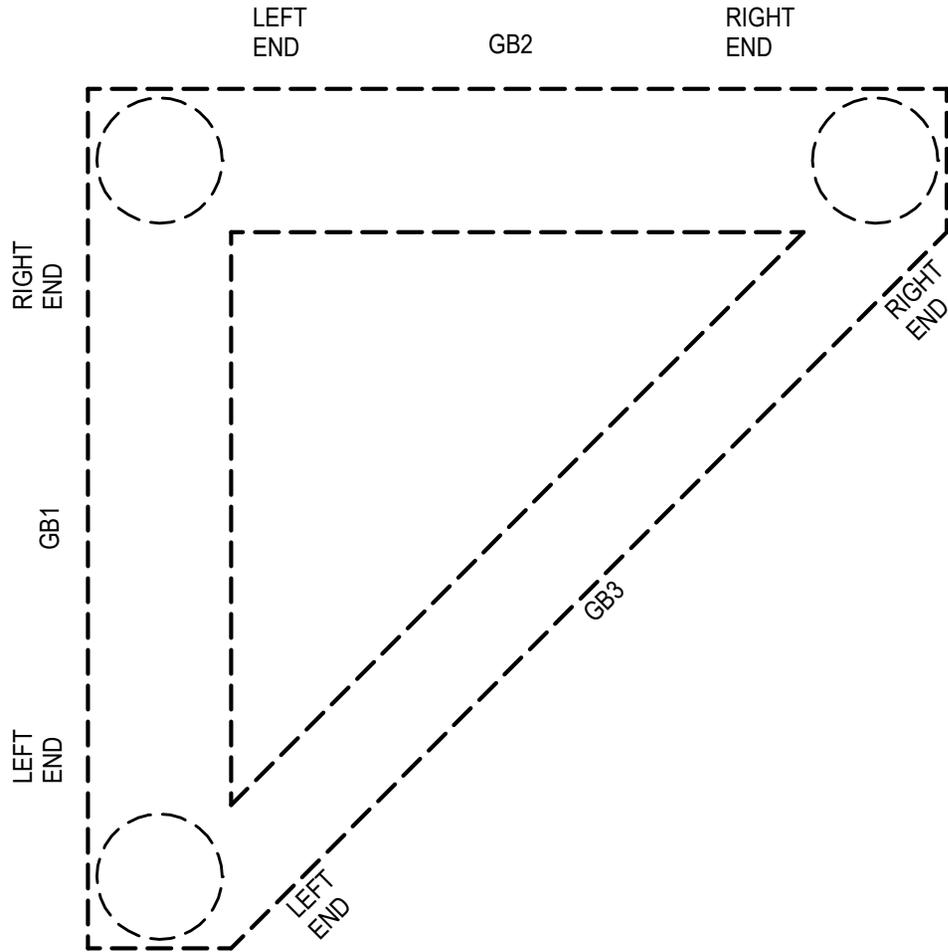
## TYPICAL GRADE BEAM DETAILS

Project number	NN20112
Date	02.02.2024

S-202C

Scale NOT TO SCALE

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**1 GRADE BEAM ORIENTATION KEY PLAN**  
NOT TO SCALE

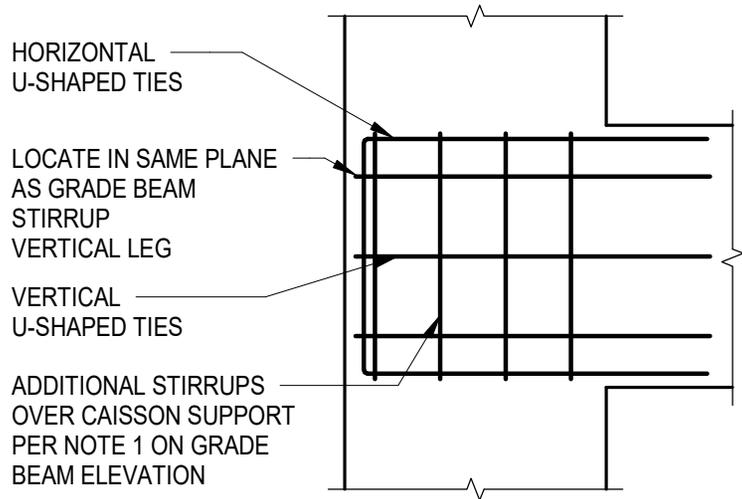
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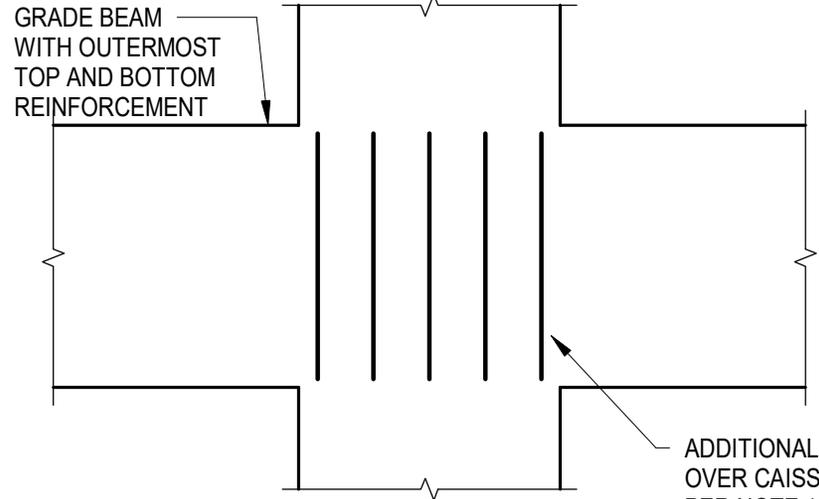
**TYPICAL GRADE BEAM DETAILS**

Project number	NN20112	<b>S-202D</b> Scale NOT TO SCALE
Date	02.02.2024	

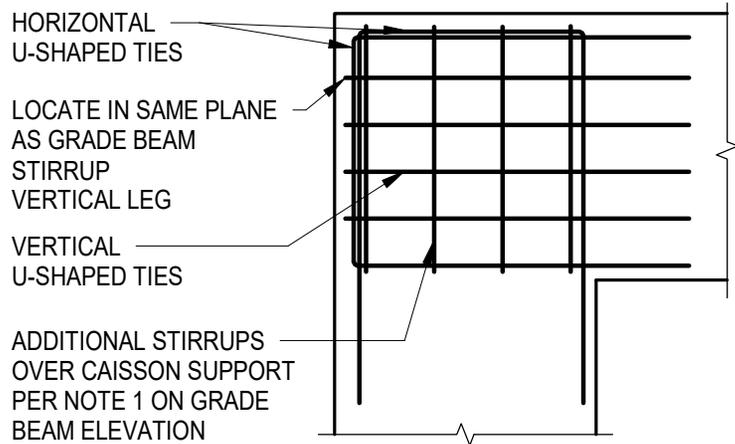
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GRADE BEAM - T-INTERSECTION



GRADE BEAM - INTERIOR INTERSECTION



GRADE BEAM - CORNER CONDITION

NOTES:

1. GRADE BEAM LONGITUDINAL REINFORCEMENT AND STIRRUPS NOT SHOWN FOR CLARITY
2. FOR U-SHAPED TIES SEE TYPICAL GRADE BEAM ELEVATION

**1** **TYPICAL GRADE BEAM INTERSECTION PLAN DETAILS**  
NOT TO SCALE

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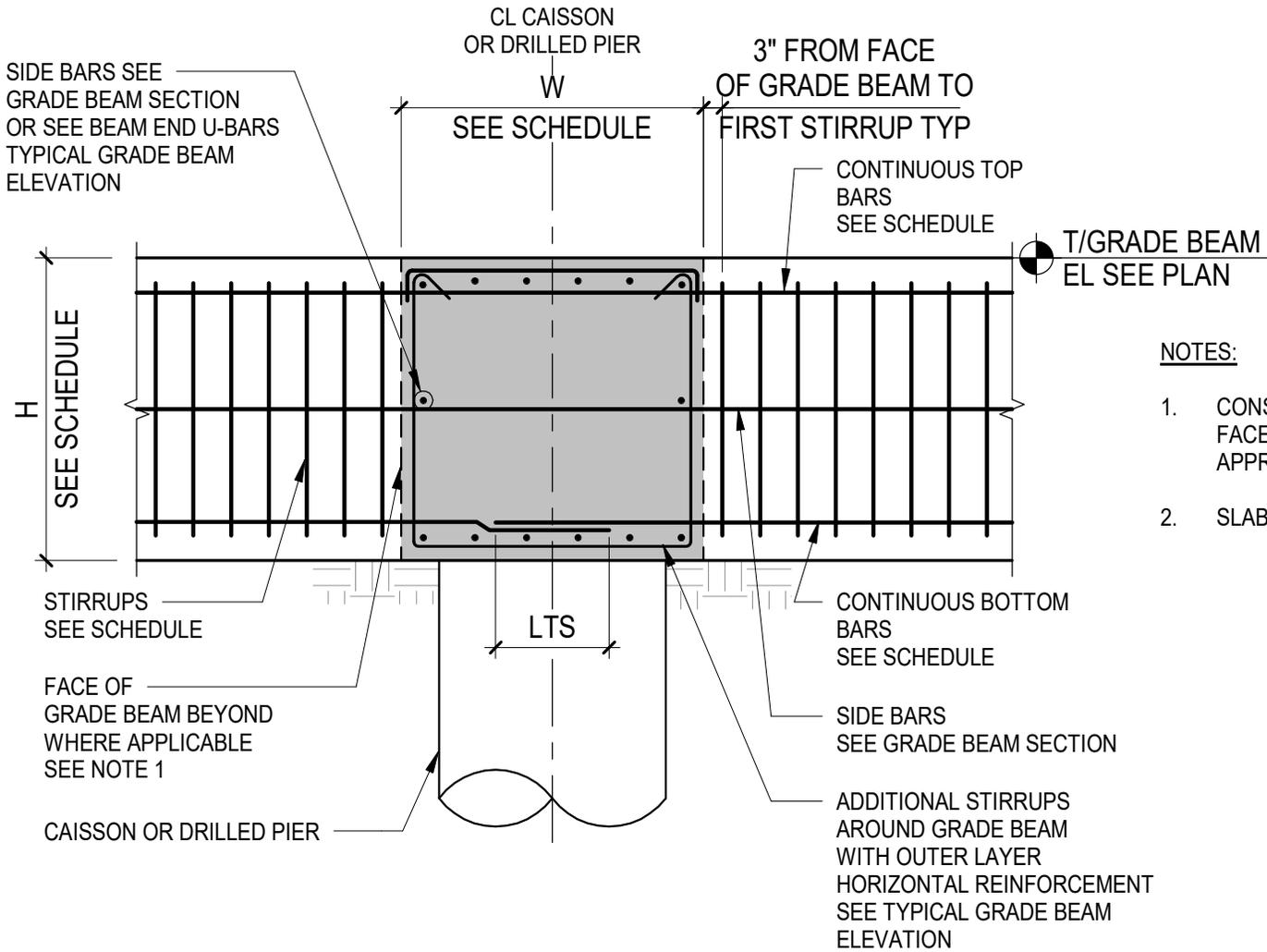
**TYPICAL GRADE BEAM DETAILS**

Project number	NN20112
Date	02.02.2024

**S-202E**

Scale NOT TO SCALE

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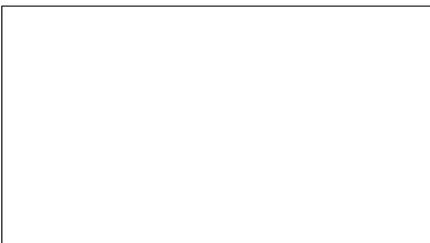
**NOTES:**

1. CONSTRUCTION JOINTS SHALL NOT BE PLACED AT FACE OF GRADE BEAMS WITHOUT PRIOR WRITTEN APPROVAL FROM SER
2. SLAB ON GRADE NOT SHOWN FOR CLARITY

**1** TYPICAL GRADE BEAM INTERIOR INTERSECTION DETAIL  
NOT TO SCALE

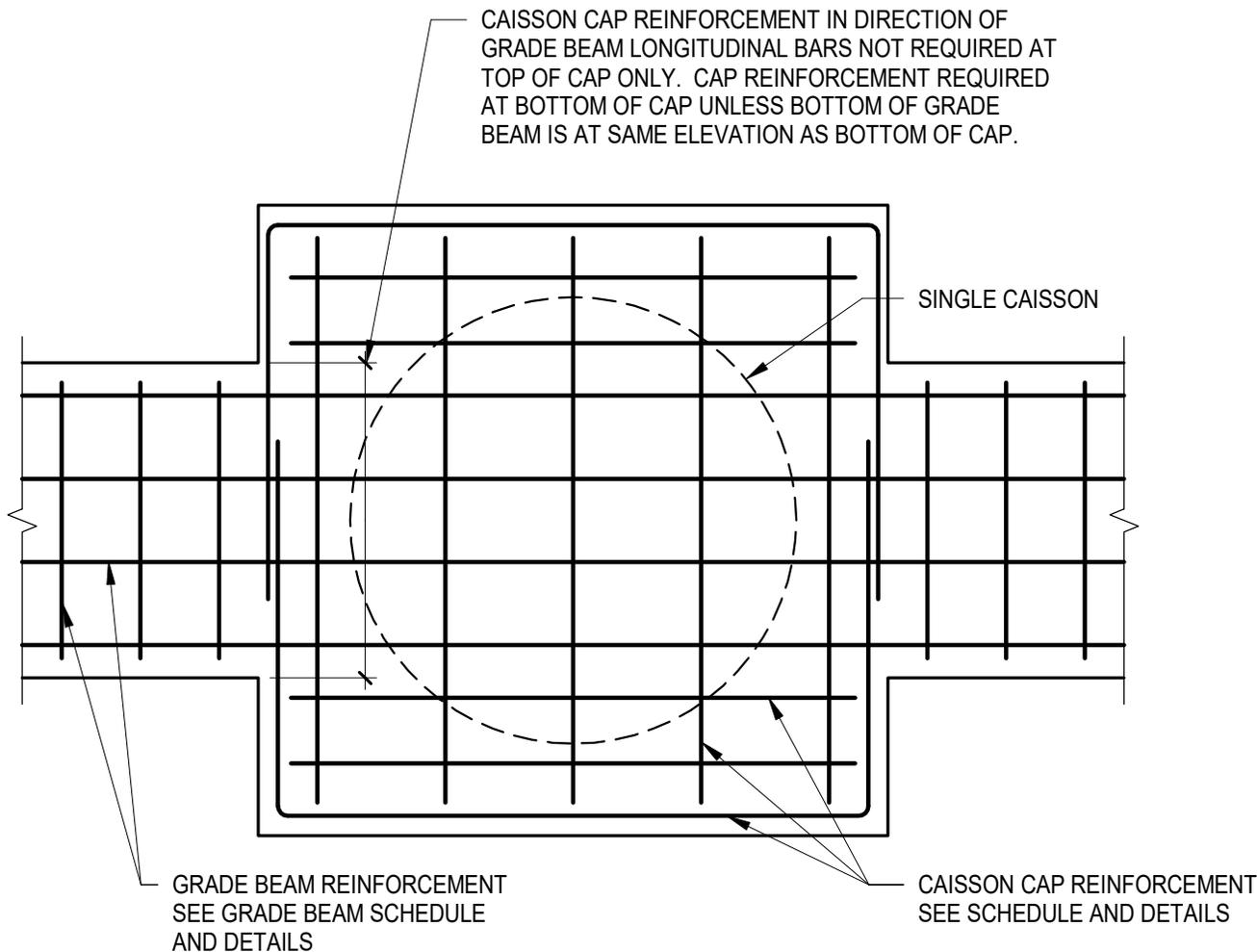
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TYPICAL GRADE BEAM DETAILS		
Project number	NN20112	<b>S-202F</b>
Date	02.02.2024	
		Scale NOT TO SCALE

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**1 CAISSON CAP AT GRADE BEAM - PLAN**  
NOT TO SCALE

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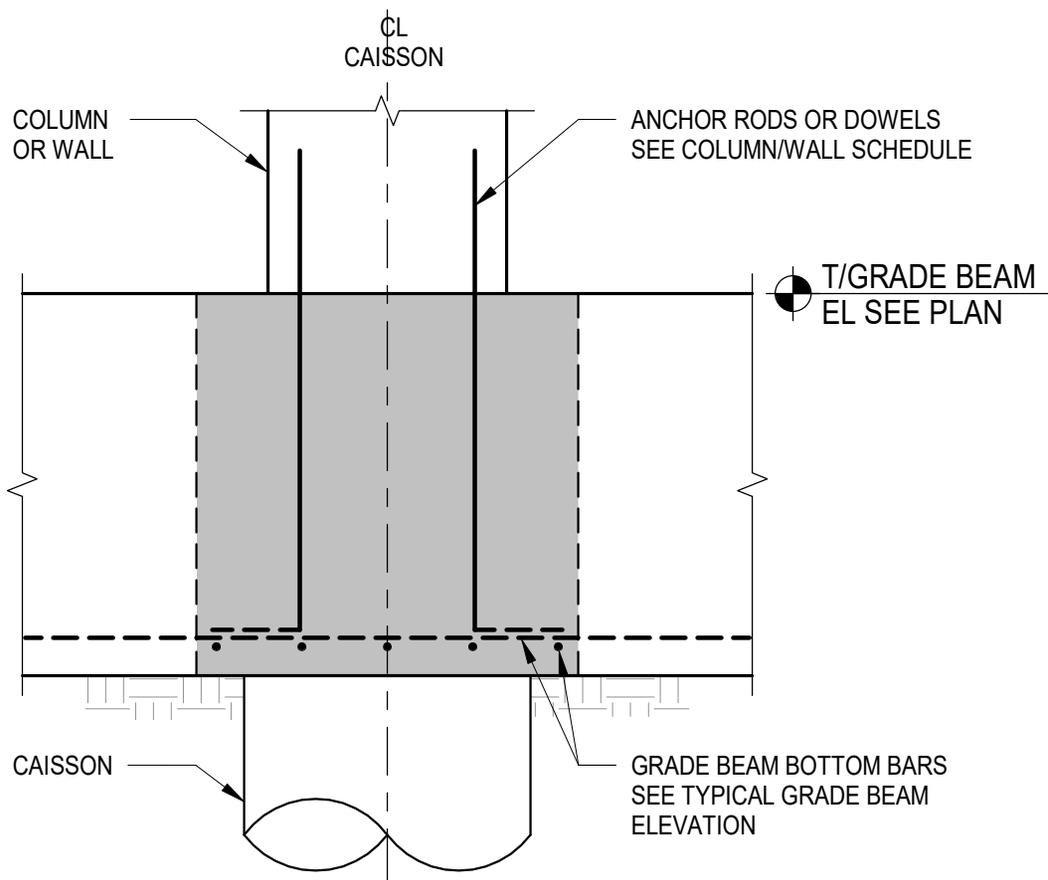
**TYPICAL GRADE BEAM DETAILS**

Project number	NN20112
Date	02.02.2024

**S-202G**

Scale NOT TO SCALE

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**TYPICAL GRADE BEAM DETAIL  
AT COLUMN / WALL INTERSECTION**

1

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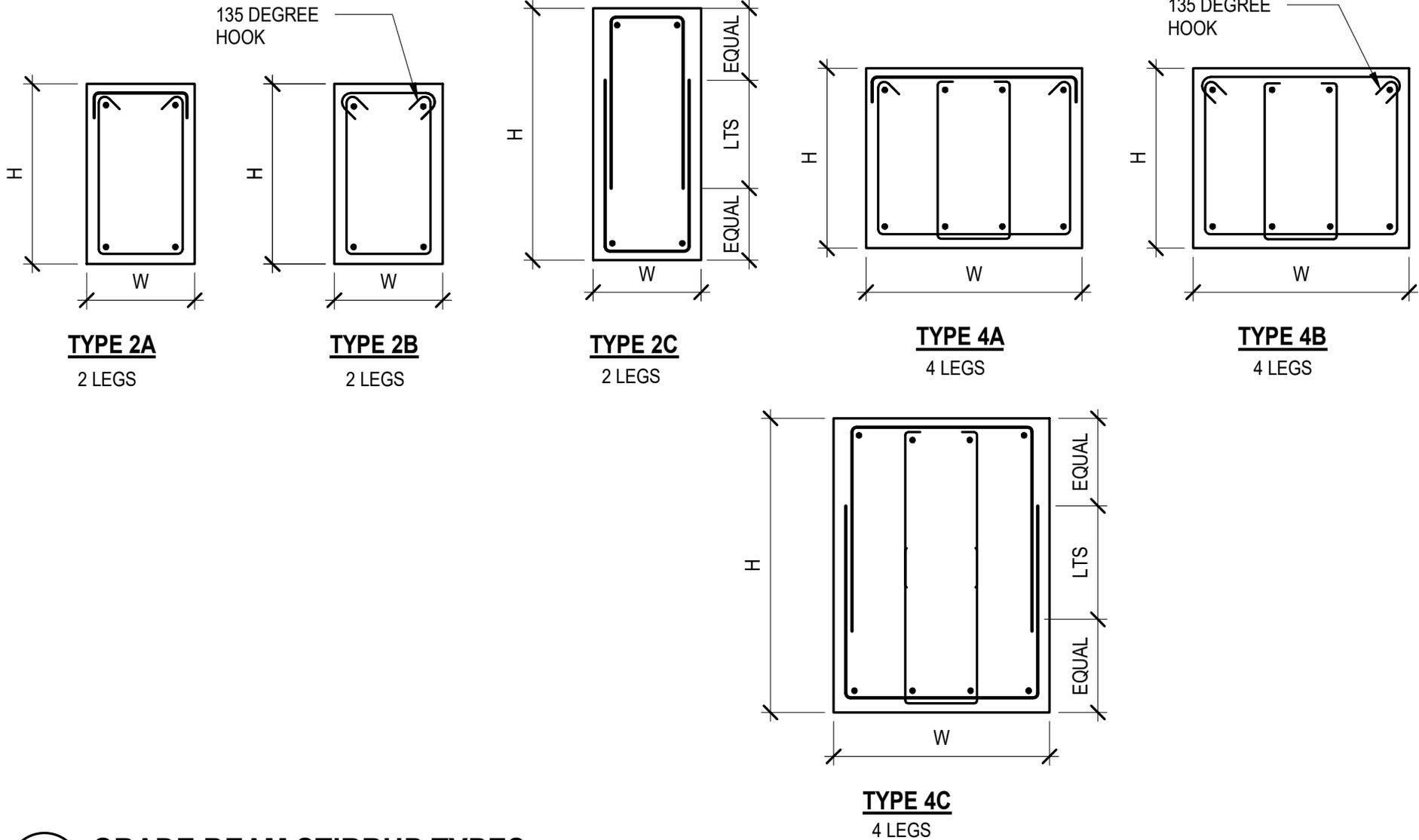
**TYPICAL GRADE BEAM DETAILS**

Project number	NN20112
Date	02.02.2024

**S-202H**

Scale NOT TO SCALE

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**1 GRADE BEAM STIRRUP TYPES**  
NOT TO SCALE

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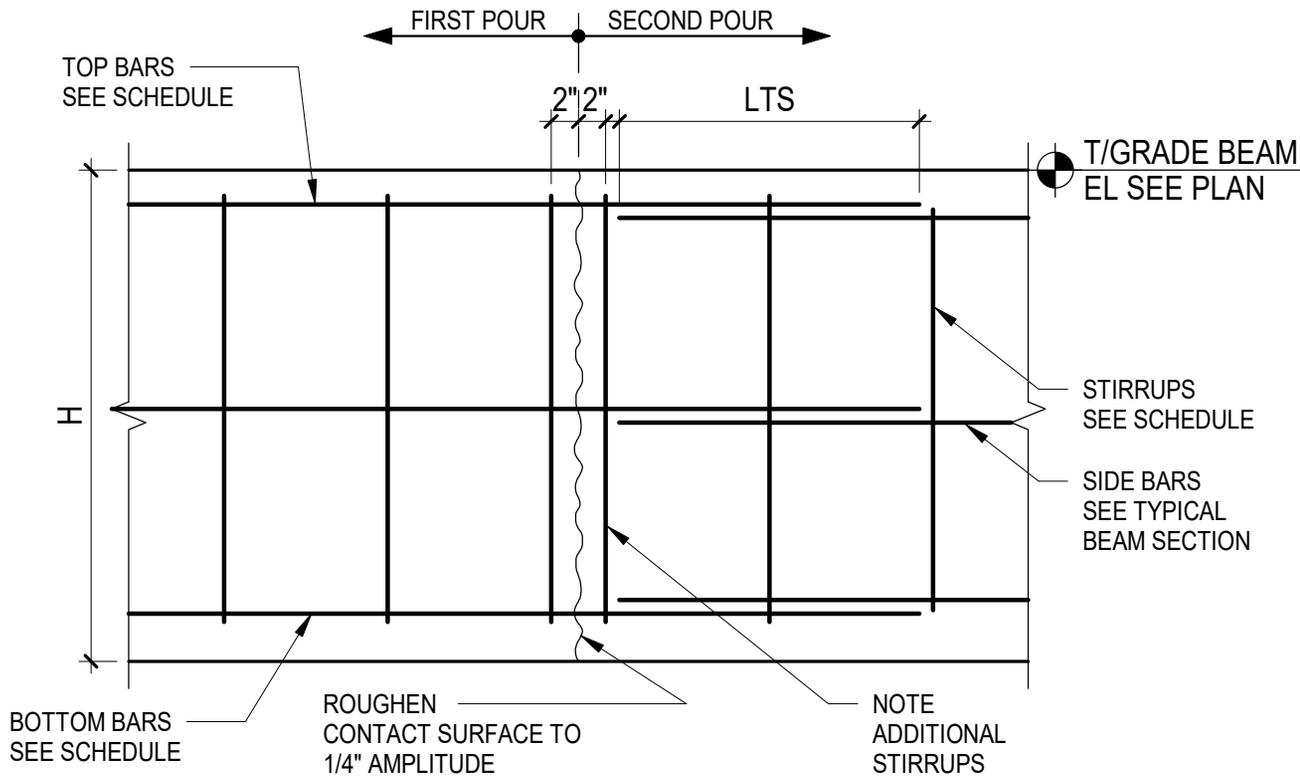
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**TYPICAL GRADE BEAM DETAILS**

Project number	NN20112
Date	02.02.2024

**S-2021**

Scale NOT TO SCALE



**NOTES:**

1. CONTRACTOR SHALL SUBMIT CONCRETE CONSTRUCTION JOINT LAYOUT FOR REVIEW AND ACTION (REFER TO GENERAL NOTES AND SPECIFICATIONS) PRIOR TO REINFORCEMENT SUBMITTAL
2. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM SER

**TYPICAL GRADE BEAM  
CONSTRUCTION JOINT - ELEVATION**

1

NOT TO SCALE

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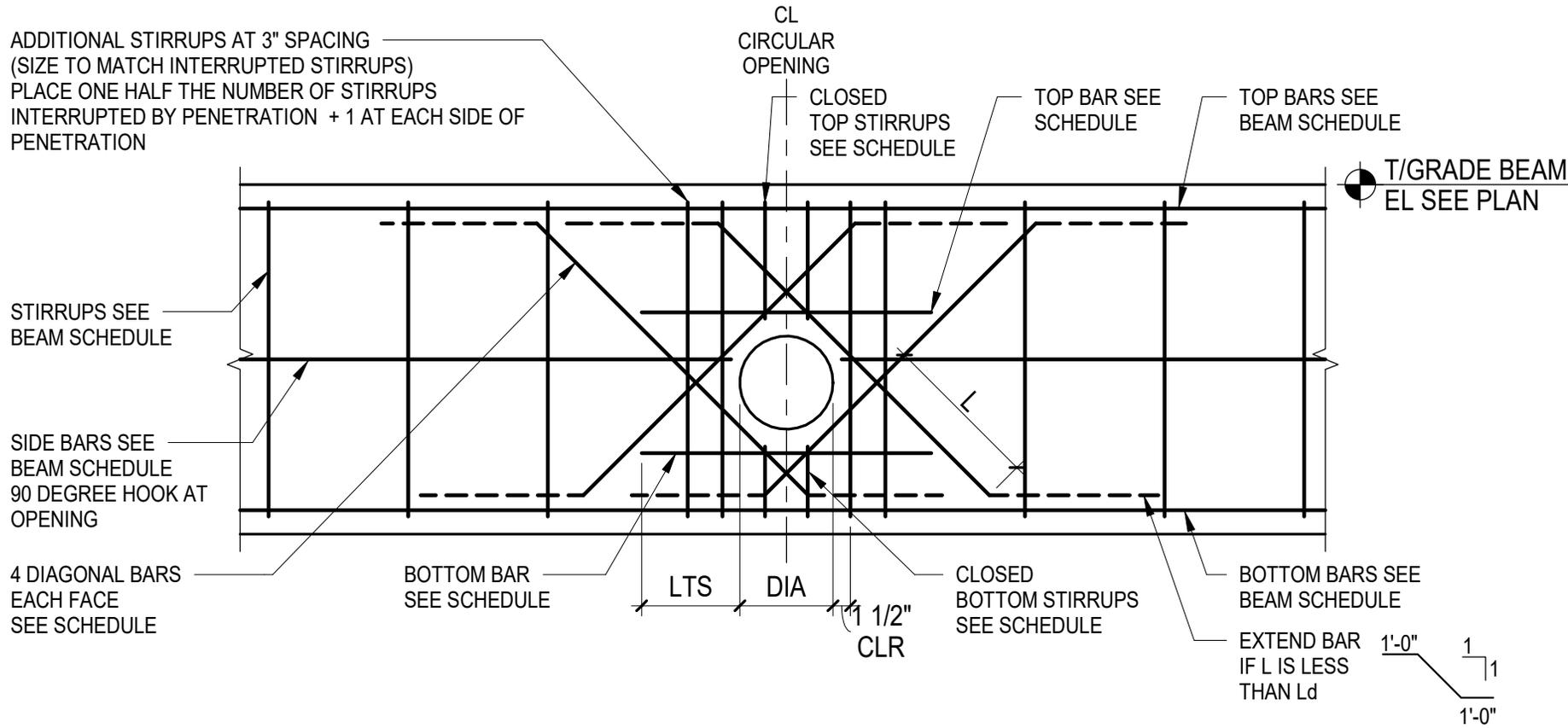
**TYPICAL GRADE BEAM DETAILS**

Project number	NN20112
Date	02.02.2024

**S-202J**

Scale NOT TO SCALE

2/7/2024 10:22:45 AM



**1** **TYPICAL GRADE BEAM SLEEVE - ELEVATION**  
 NOT TO SCALE

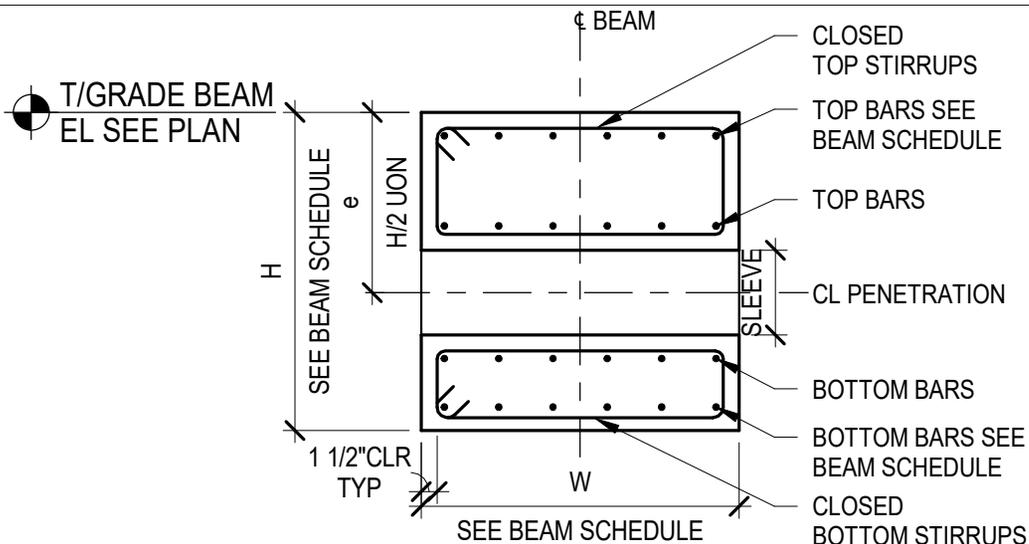
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TYPICAL GRADE BEAM DETAILS		
Project number	NN20112	<b>S-202K</b> Scale NOT TO SCALE
Date	02.02.2024	

2/7/2024 10:22:46 AM



**NOTES:**

1. ALL BEAM PENETRATIONS SHALL BE SHOWN ON THE SHOP DRAWINGS FOR REVIEW BY THE DESIGN PROFESSIONALS  
NO PENETRATIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE DESIGN PROFESSIONALS
2. THESE DETAILS SHALL BE USED IN CONJUNCTION WITH CONCRETE BEAM PENETRATION SCHEDULE
3. THE MINIMUM CLEAR SPACE BETWEEN TWO ADJACENT PENETRATIONS SHALL BE GREATER OF THE LARGEST PENETRATION DIMENSION OR TWO TIMES THE BEAM DEPTH
4. THE MINIMUM CLEAR DIMENSION BETWEEN THE EDGE OF A PENETRATION AND THE FACE OF SUPPORT SHALL BE THE DEPTH OF THE BEAM
5. SEE STRUCTURAL DRAWINGS FOR PENETRATIONS. GENERAL CONTRACTOR SHALL VERIFY QUANTITY, SIZE, AND LOCATION OF ALL PENETRATIONS WITH MEP DRAWINGS.  
NOTIFY THE SER IN WRITING OF ANY DISCREPANCIES FOR REVIEW AND ACTION
6. NO ADDITIONAL REINFORCEMENT IS REQUIRED FOR OPENINGS WITH 4" DIAMETER OR SMALLER PROVIDED NO BEAM REINFORCEMENT IS INTERRUPTED AND  
MINIMUM CONCRETE COVER IS PROVIDED AROUND ALL BARS. IT IS ACCEPTABLE TO ADJUST BEAM REINFORCEMENT WITHIN MAXIMUM SPACING LIMITS FOR  
STIRRUPS OR SIDE BARS.

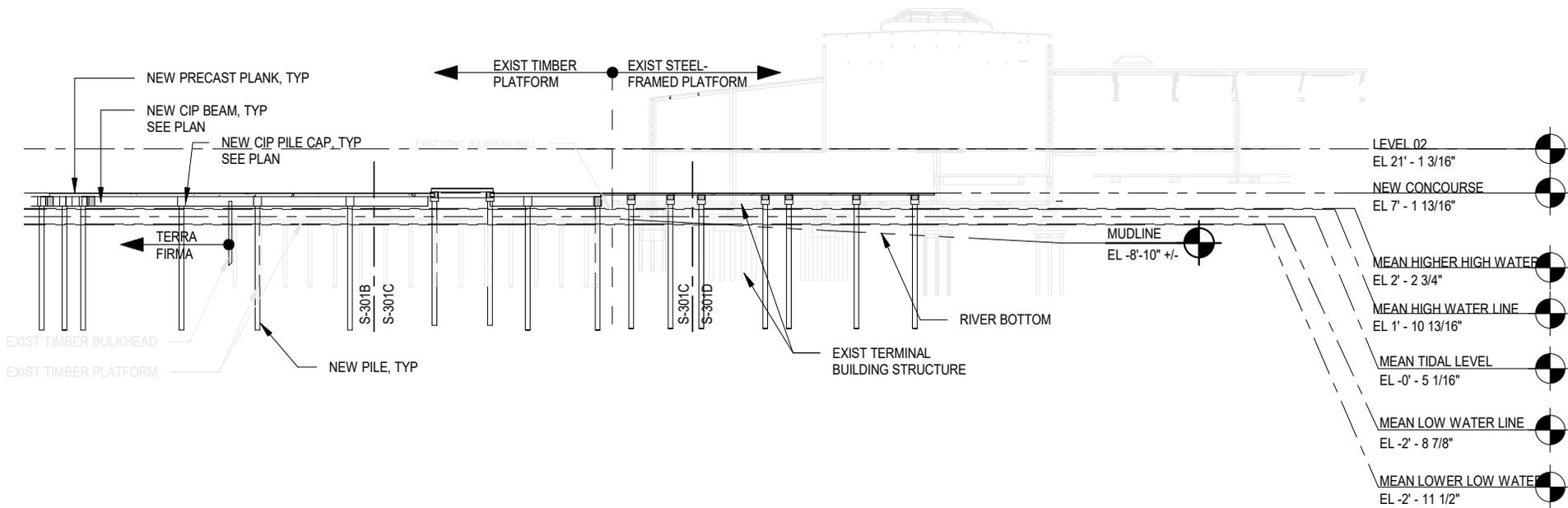
**1 TYPICAL GRADE BEAM SLEEVE - ELEVATION**  
NOT TO SCALE

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TYPICAL GRADE BEAM DETAILS		
Project number	NN20112	<b>S-202L</b>
Date	02.02.2024	
		Scale NOT TO SCALE

2/7/2024 10:22:46 AM



**1 SECTION**  
1" = 50'-0"

NOTE: PILE LENGTHS ARE NOT TO SCALE

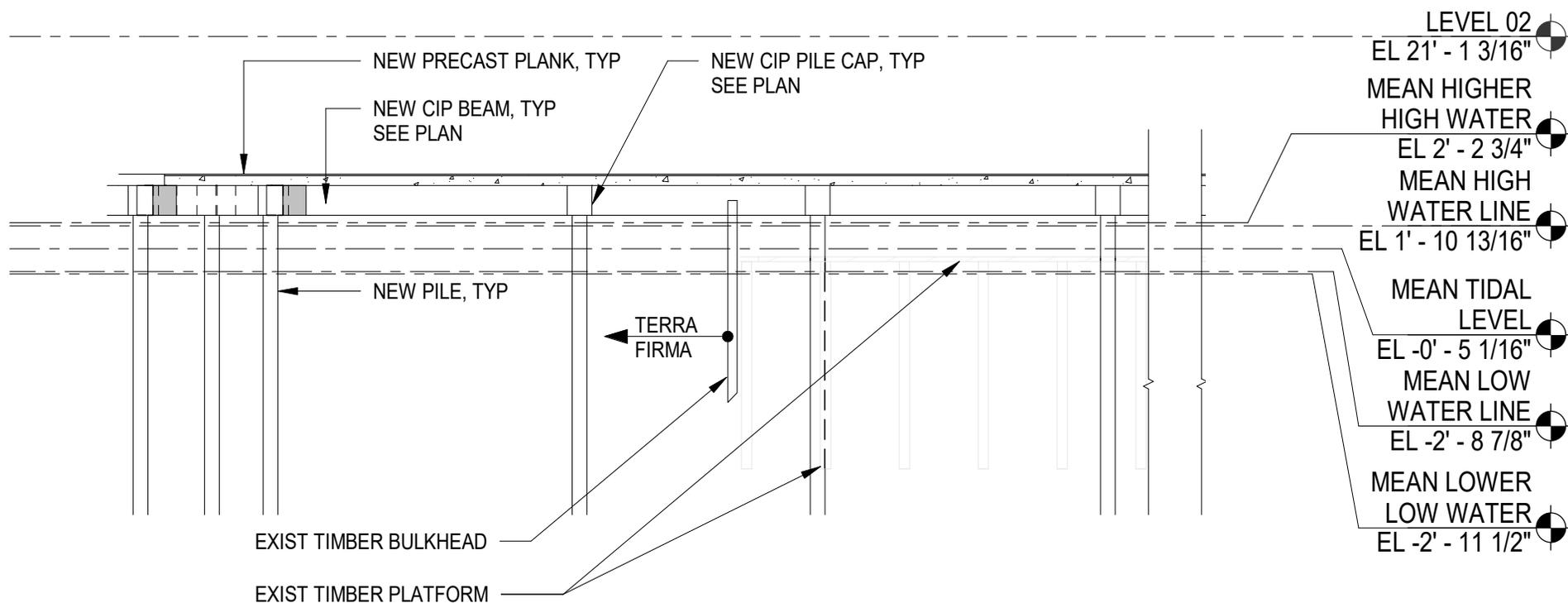
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BUILDING SECTION		
Project number	NN20112	<b>S-301A</b> Scale 1" = 50'-0"
Date	02.02.2024	

2/7/2024 10:22:47 AM



**1 SECTION**  
1/16" = 1'-0"

NOTE: PILE LENGTHS ARE NOT TO SCALE

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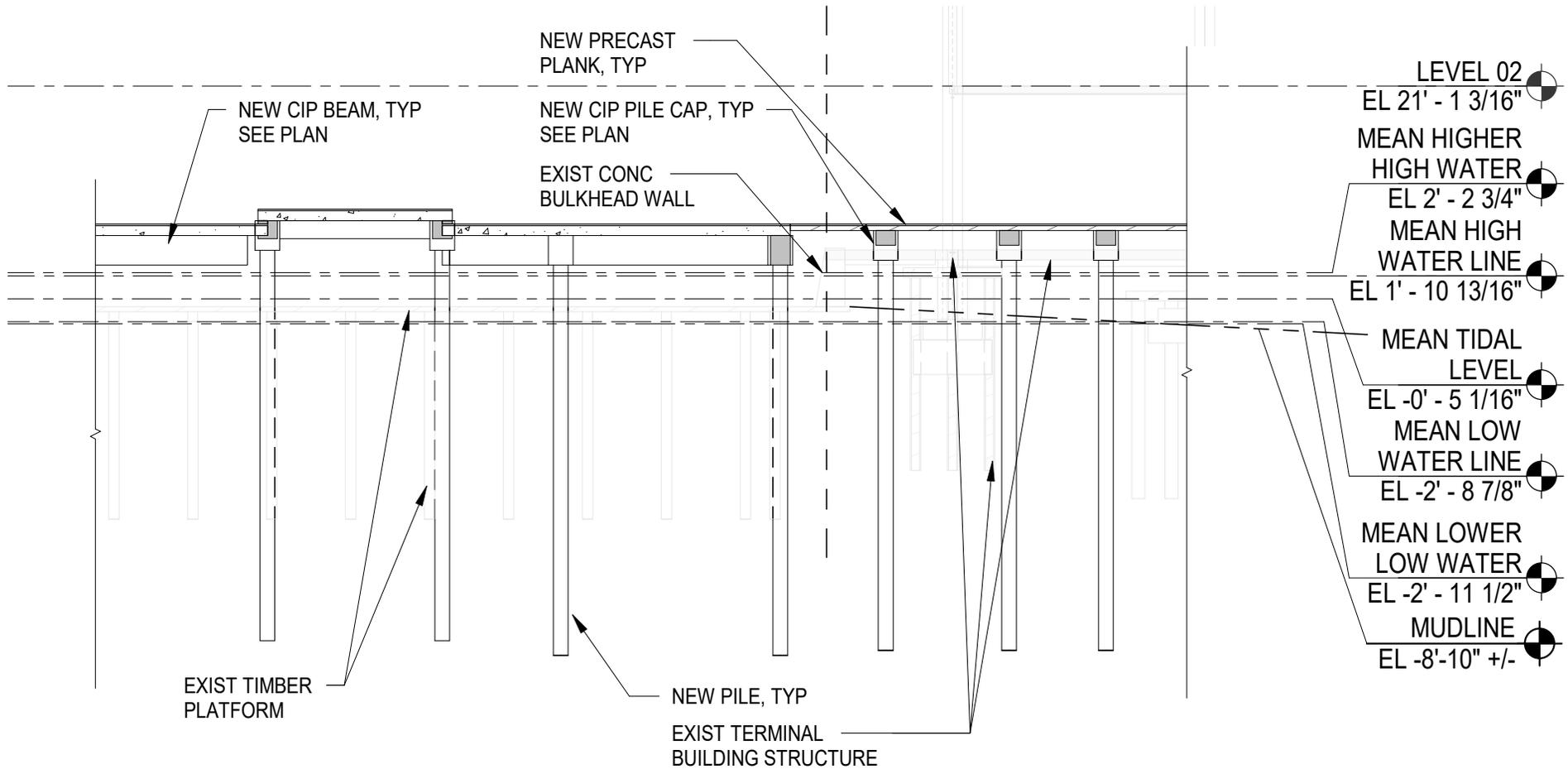
**BUILDING SECTION**

Project number NN20112  
Date 02.02.2024

**S-301B**

Scale 1/16" = 1'-0"

2/7/2024 10:22:47 AM

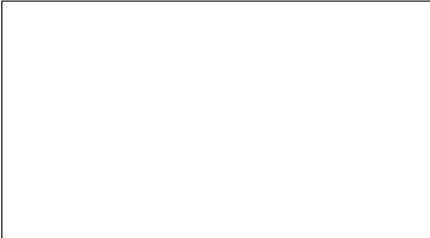


NOTE: PILE LENGTHS ARE NOT TO SCALE

**1 SECTION**  
1/16" = 1'-0"

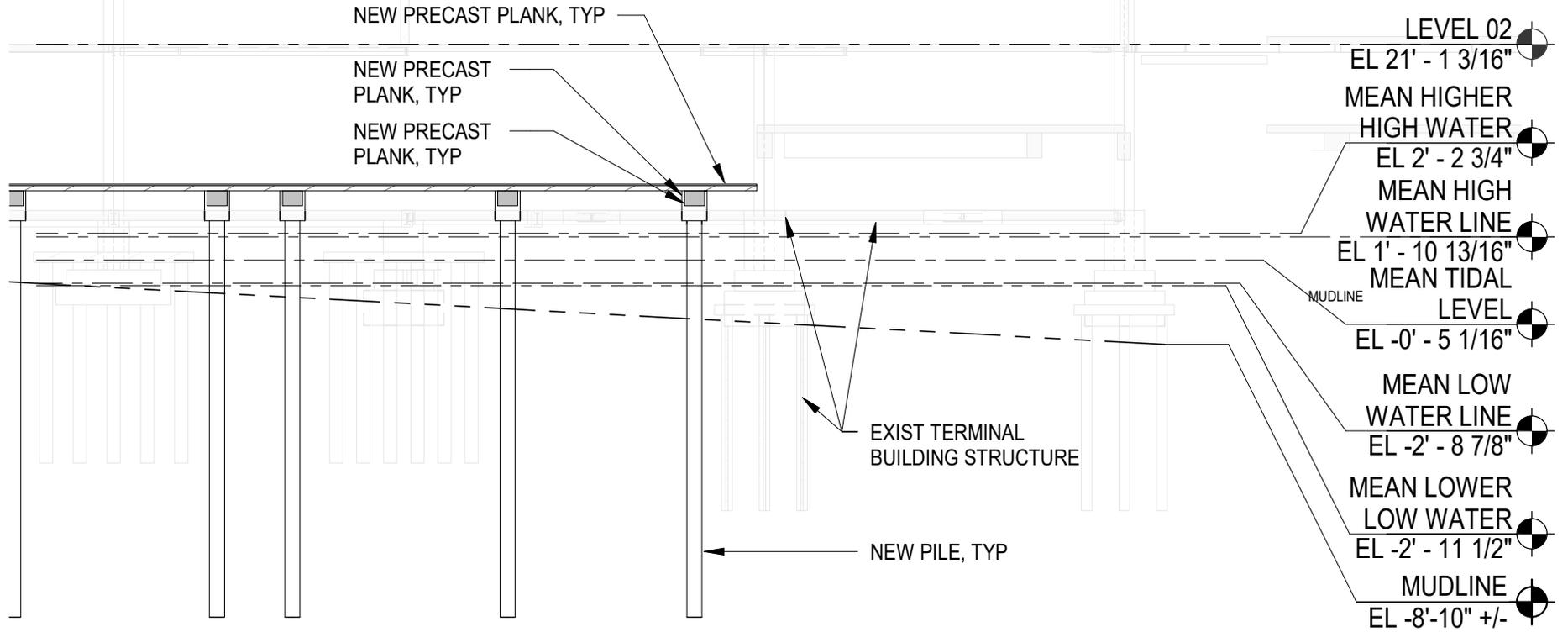
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BUILDING SECTION		
Project number	NN20112	<b>S-301C</b> Scale 1/16" = 1'-0"
Date	02.02.2024	

2/7/2024 10:22:47 AM



**1 SECTION**  
1/16" = 1'-0"

NOTE: PILE LENGTHS ARE NOT TO SCALE

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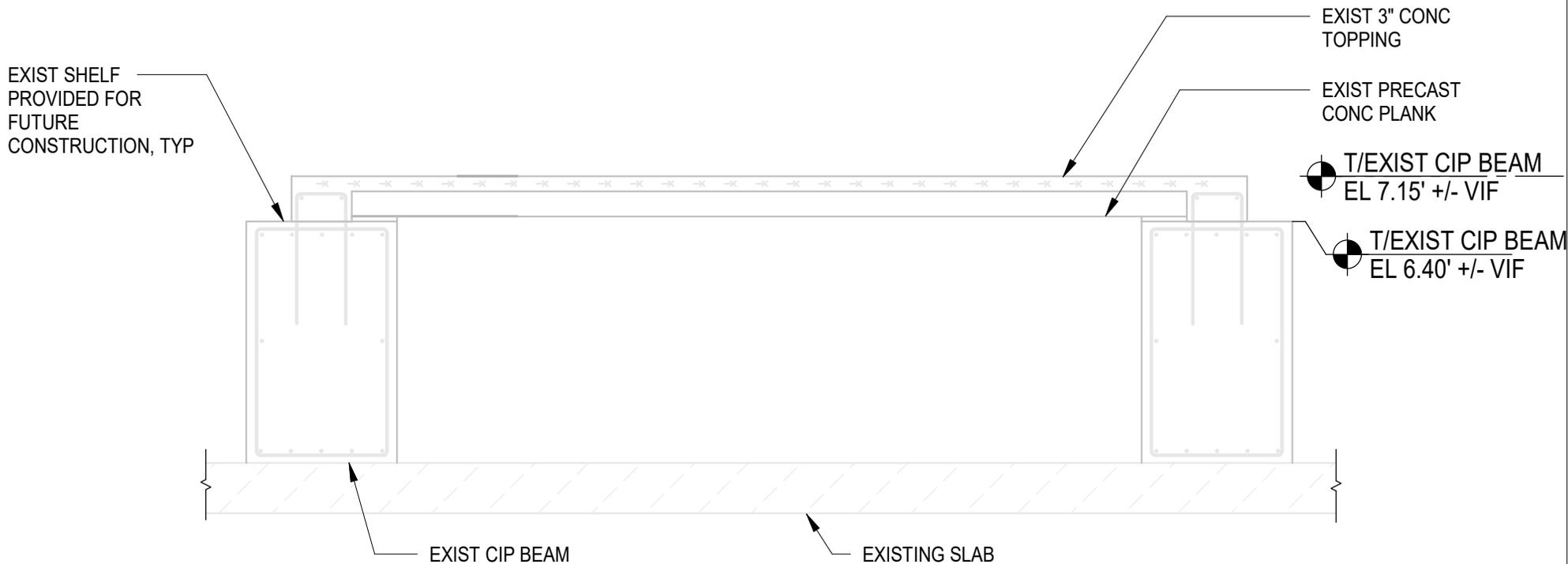
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**BUILDING SECTION**

Project number	NN20112
Date	02.02.2024

**S-301D**

Scale 1/16" = 1'-0"

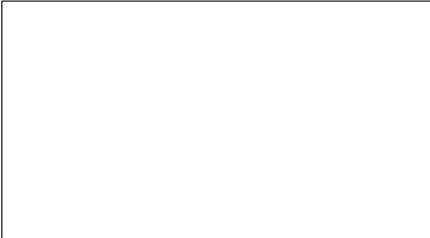


NOTE: EXISTING CONDITIONS & DIMENSIONS TO BE VERIFIED IN FIELD

**1 SECTION DETAIL**  
1 : 30

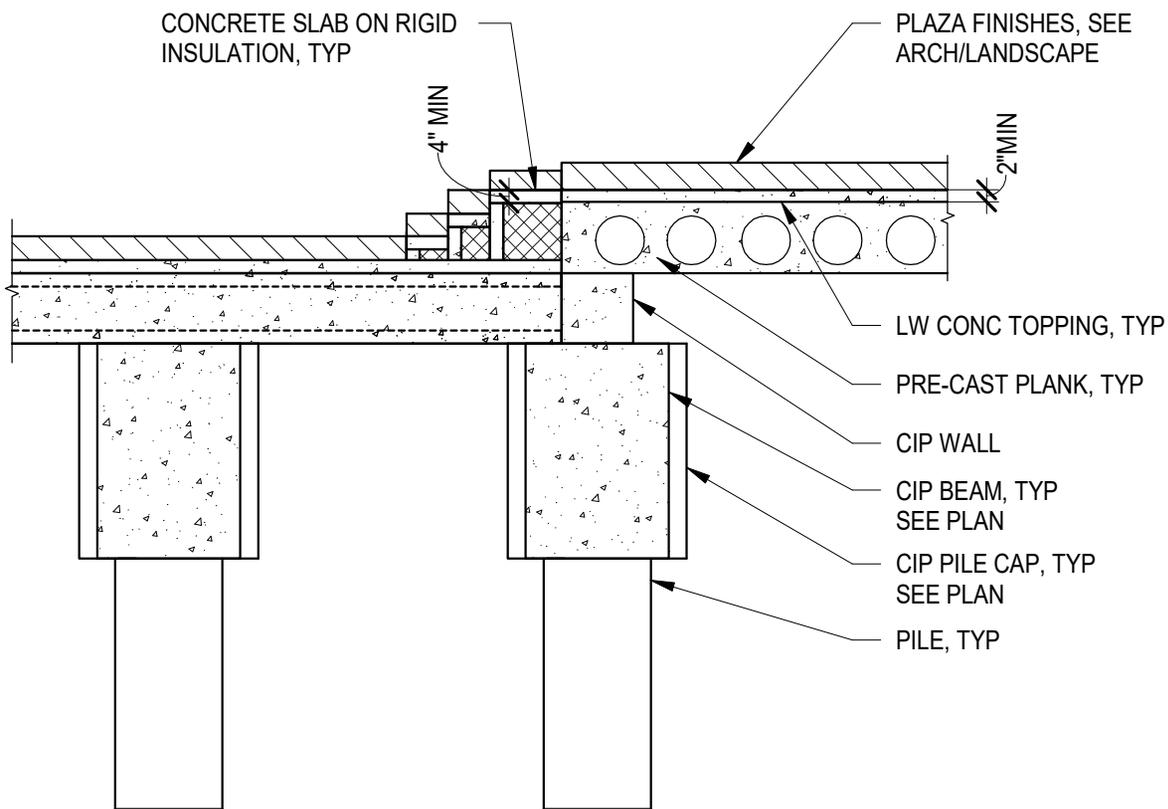
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<b>TYPICAL CONCRETE SECTION AND DETAILS</b>		
Project number	NN20112	<b>S-400A</b> Scale 1 : 30
Date	02.02.2024	

2/7/2024 10:22:48 AM



NOTE: EXISTING TIMBER PLATFORM NOT SHOWN

**1 SECTION**  
3/8" = 1'-0"

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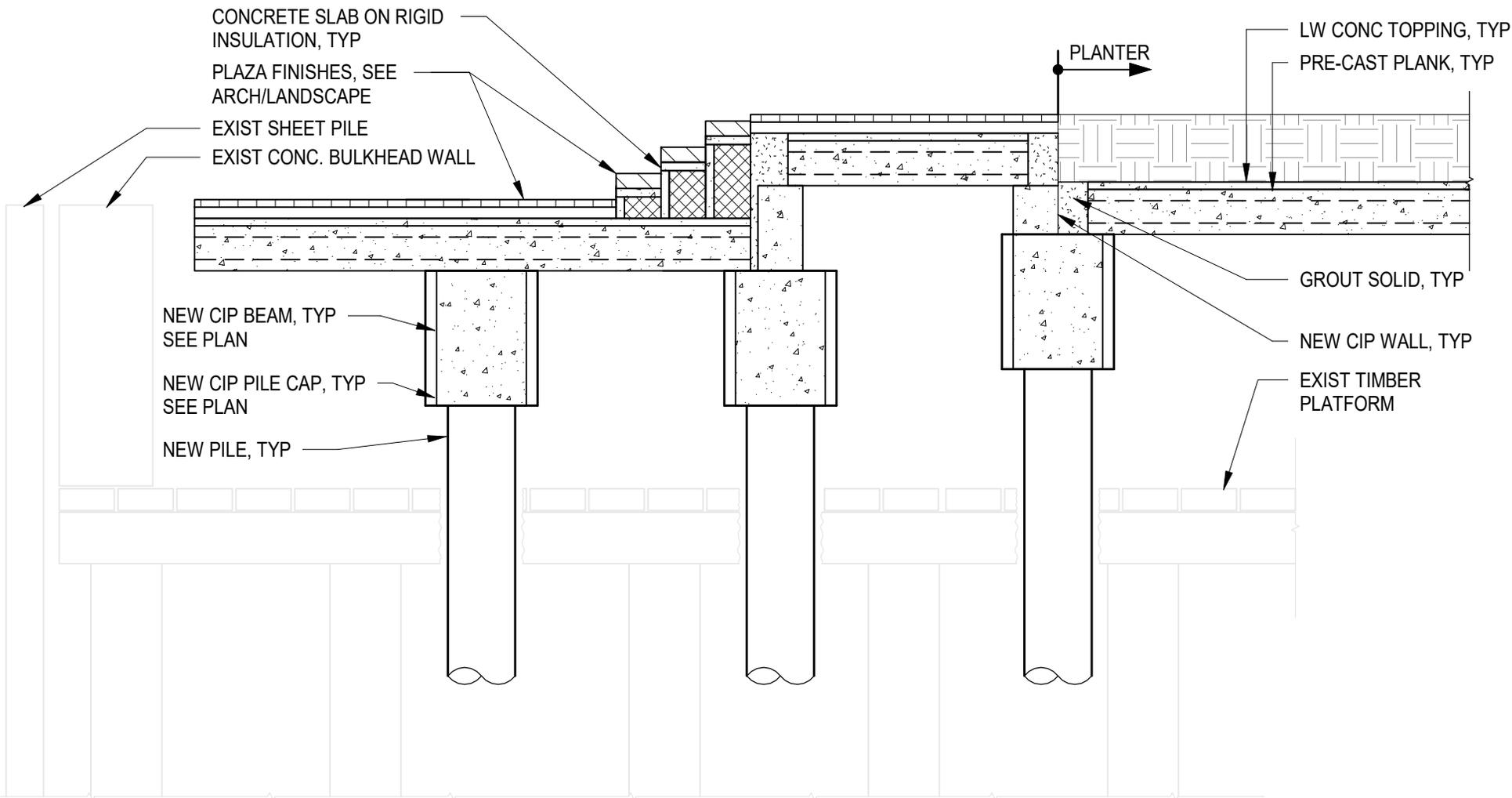
**TYPICAL CONCRETE SECTION AND DETAILS**

Project number	NN20112
Date	02.02.2024

**S-400B**

Scale 3/8" = 1'-0"

2/7/2024 10:22:48 AM



**1** SLAB STEP SECTION DETAIL AT PLAZA FRAMING  
1 : 40

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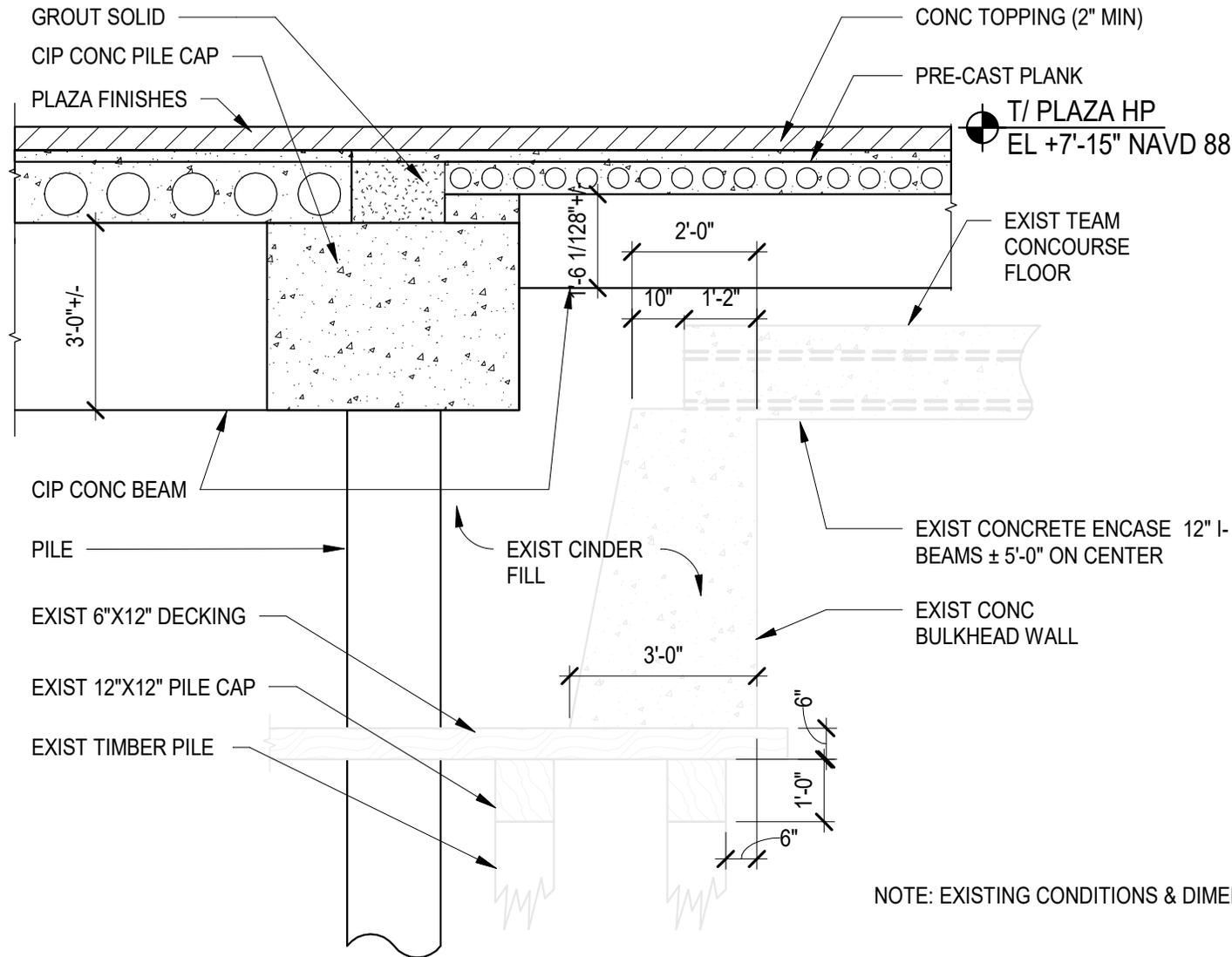
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**TYPICAL CONCRETE SECTION AND DETAILS**

Project number	NN20112
Date	02.02.2024

**S-400C**

Scale 1 : 40



NOTE: EXISTING CONDITIONS & DIMENSIONS TO BE VERIFIED IN FIELD

**1** TYPICAL SECTION THROUGH BULKHED WALL  
 3/8" = 1'-0"

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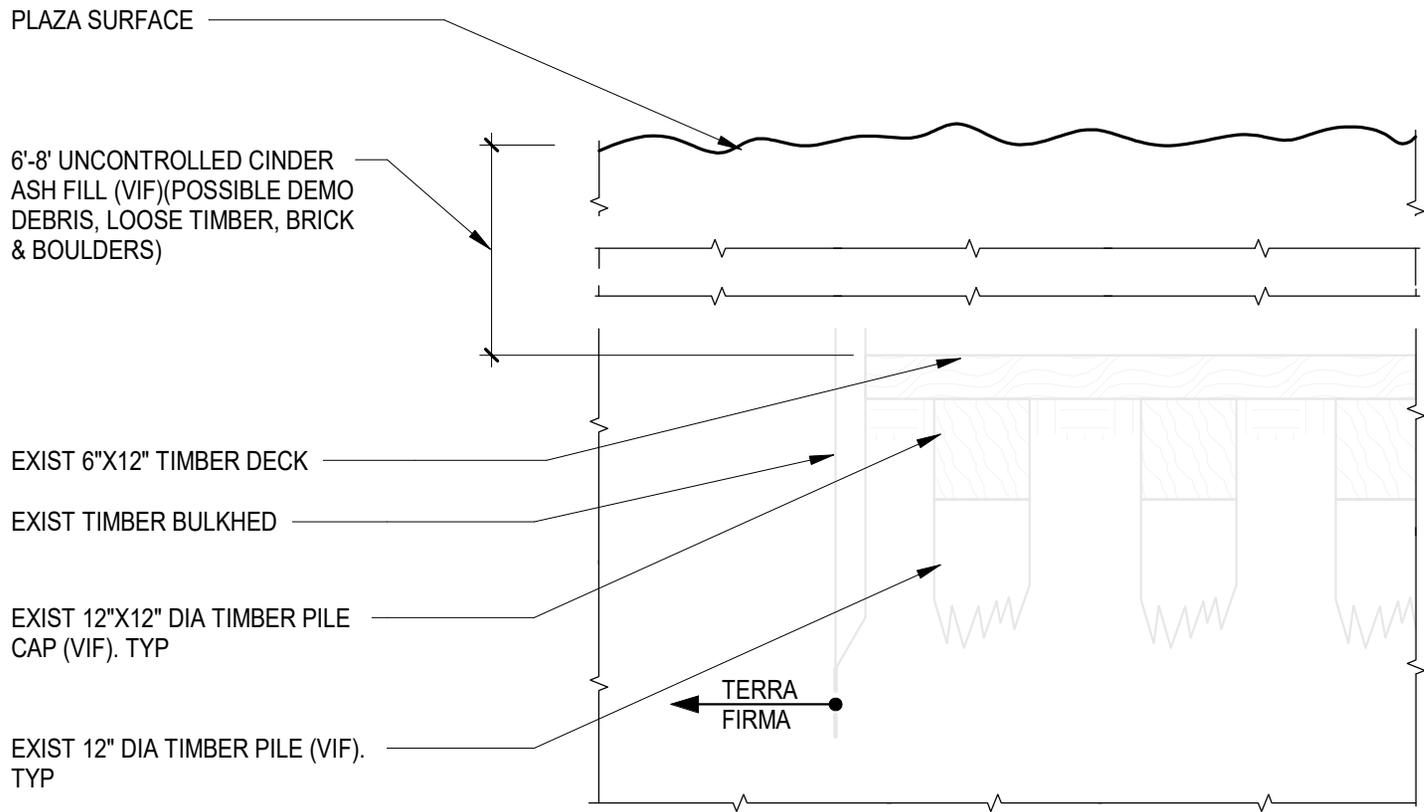
**TYPICAL CONCRETE SECTION AND DETAILS**

Project number	NN20112
Date	02.02.2024

**S-400D**

Scale 3/8" = 1'-0"

2/7/2024 10:22:48 AM



NOTE: EXISTING CONDITIONS & DIMENSIONS TO BE VERIFIED IN FIELD

**1** **TYPICAL SECTION THROUGH TIMBER BULKHED WALL**  
 1/2" = 1'-0"

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<b>TYPICAL CONCRETE SECTION AND DETAILS</b>		<b>S-400E</b>
Project number	NN20112	
Date	02.02.2024	Scale 1/2" = 1'-0"

2/7/2024 10:22:48 AM