



**CITY OF OREGON  
OREGON, OHIO  
WATER TREATMENT PLANT – CONCRETE REPLACEMENT PROJECT**

**Addendum No. 2  
May 8, 2024**

**BIDS TO BE OPENED: Tuesday, May 14, 2024 at 11:00 A.M.**

To: Prospective Bidders  
From: **ARCADIS U.S., Inc.**  
**One Seagate, Suite 700**  
**Toledo, Ohio 43604**  
Owner: **City of Oregon**  
**Department of Public Service**  
**5330 Seaman Road**  
**Oregon, Ohio 43616**  
Subject: **Water Treatment Plant – Concrete Replacement Project**

This Addendum is part of the Bidding Documents and the Contract Documents and modifies the original Bidding Documents, as indicated below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification for award of the associated Contract.

This Addendum consists of four pages and the attachment listed on page 4.

**CHANGES TO PRIOR ADDENDA**

None.

**CHANGES TO DRAWINGS**

- 1.01 Drawing D01-01, RECARBONATION BASINS (SOUTH) – TOP PLAN – In the TOP PLAN, add boxes around the dimensions that are similar to the boxed dimensions shown on revised Drawing S01-01 (included with this Addendum No. 2).
- 1.02 Drawing D01-02, SEDIMENTATION BASINS (SOUTH) – TOP PLAN – In the TOP PLAN, add boxes around the dimensions that are similar to the boxed dimensions shown on revised Drawing S01-03 (included with this Addendum No. 2).
- 1.03 Drawing D01-02, SEDIMENTATION BASINS (SOUTH) – TOP PLAN – In the TOP PLAN, add the following text “1” DIA CARBON DIOXIDE & 2” DIA NATURAL GAS PIPE ON UNISTRUT (KEY NOTE 7) SIM” to the west edge of the 3’-0” wide center walkway (running north-south in plan) similar to the text and location shown on revised Drawing S01-03 (included with this Addendum No. 2).

- 1.04 Drawing D03-01, SEDIMENTATION BASINS (NORTH) – TOP PLAN – In the TOP PLAN, add boxes around the dimensions that are similar to the boxed dimensions shown on revised Drawing S03-01 (included with this Addendum No. 2).
- 1.05 Drawing D03-01, SEDIMENTATION BASINS (NORTH) – TOP PLAN - In the TOP PLAN, add the following text “1” DIA CARBON DIOXIDE PIPE (KEY NOTE 7) SIM” to the east edge of the 3’-0” wide center walkway (running north-south in plan) similar to the text and location shown on revised Drawing S03-01 (included with this Addendum No. 2).
- 1.06 Drawing D03-01, SEDIMENTATION BASINS (NORTH) – TOP PLAN - In the TOP PLAN, add the following text “NATURAL” in between the words “DIA” and “GAS” for the text pointing to the west edge of the 3’-0” wide center walkway (running north-south in plan) similar to the text and location shown on revised Drawing S03-01 (included with this Addendum No. 2).
- 1.07 Drawing D03-01, SEDIMENTATION BASINS (NORTH) – TOP PLAN - In the TOP PLAN, add “KEY NOTE 7” and point to the east face of the 6’-0” wide western flume top slab (running north-south in plan) similar to the key note and location shown on revised Drawing S03-01 (included with this Addendum No. 2).
- 1.08 Drawing D03-02, RECARBONATION BASINS (NORTH) – TOP PLAN – In the TOP PLAN, add boxes around the dimensions that are similar to the boxed dimensions shown on revised Drawing S03-03 (included with this Addendum No. 2).
- 1.09 Drawing D10-02, SEDIMENTATION AND RECARBONATION BASINS (NORTH & SOUTH) – SECTIONS – In SECTION 2, add the following text “1” DIA CARBON DIOXIDE PIPE (KEY NOTE 7) SIM” AND “KEY NOTE 7” pointing at the east edge and text “2” DIA NATURAL GAS PIPE (KEY NOTE 7) SIM” pointing at the west edge of the 3’-0” wide center walkway similar to the text and location shown on revised Drawing S10-02 (included with this Addendum No. 2).
- 1.10 Drawing D10-02, SEDIMENTATION AND RECARBONATION BASINS (NORTH & SOUTH) – SECTIONS – In SECTION 2, add “KEY NOTE 7” and point to the east face of the 6’-0” wide western flume top slab (running north-south in plan) similar to the key note and location shown on revised Drawing S10-02 (included with this Addendum No. 2).
- 1.11 Drawing D10-04, SEDIMENTATION AND RECARBONATION BASINS (NORTH & SOUTH) – SECTIONS AND DETAILS – In DETAIL 11, add the following text “1” DIA CARBON DIOXIDE PIPE (KEY NOTE 7) SIM” AND “KEY NOTE 7” pointing at the east edge and text “2” DIA NATURAL GAS PIPE (KEY NOTE 7) SIM” pointing at the west edge of the 3’-0” wide center walkway similar to the text and location shown in SECTION 2 on revised Drawing S10-02 (included with this Addendum No. 2).
- 1.12 Drawing S01-01, RECARBONATION BASINS (SOUTH) – TOP PLAN - REINFORCING - Delete this sheet in its entirety and substitute revised Drawing S01-01, included with this Addendum No. 2.
- 1.13 Drawing S01-02, RECARBONATION BASINS (SOUTH) – TOP PLAN – GRATING AND RAILING – In the TOP PLAN – GRATING AND RAILING, add boxes around the dimensions that are similar to the boxed dimensions shown on revised Drawing S01-01 (included with this Addendum No. 2).

- 1.14 Drawing S01-03, SEDIMENTATION BASINS (SOUTH) – TOP PLAN - REINFORCING - Delete this sheet in its entirety and substitute revised Drawing S01-03, included with this Addendum No. 2.
- 1.15 Drawing S01-04, SEDIMENTATION BASINS (SOUTH) – TOP PLAN – GRATING AND RAILING – In the TOP PLAN – GRATING AND RAILING, add boxes around the dimensions that are similar to the boxed dimensions shown on revised Drawing S01-03 (included with this Addendum No. 2).
- 1.16 Drawing S01-04, SEDIMENTATION BASINS (SOUTH) – TOP PLAN – GRATING AND RAILING – In the TOP PLAN – GRATING AND RAILING, add the following text “1” DIA CARBON DIOXIDE & 2” DIA NATURAL GAS PIPE ON UNISTRUT (KEY NOTE 7) SIM” to the west edge of the 4’-6” wide center walkway (running north-south in plan) similar to the text and location shown on revised Drawing S01-03 (included with this Addendum No. 2).
- 1.17 Drawing S03-01, SEDIMENTATION BASINS (NORTH) – TOP PLAN - REINFORCING - Delete this sheet in its entirety and substitute revised Drawing S03-01, included with this Addendum No. 2.
- 1.18 Drawing S03-02, SEDIMENTATION BASINS (NORTH) – TOP PLAN - GRATING AND RAILING - In the TOP PLAN – GRATING AND RAILING, add boxes around the dimensions that are similar to the boxed dimensions shown on revised Drawing S03-01 (included with this Addendum No. 2).
- 1.19 Drawing S03-02, SEDIMENTATION BASINS (NORTH) – TOP PLAN - GRATING AND RAILING - In the TOP PLAN – GRATING AND RAILING, add the following text “1” DIA CARBON DIOXIDE PIPE (KEY NOTE 7) SIM” to the east edge of the 4’-6” wide center walkway (running north-south in plan) similar to the text and location shown on revised Drawing S03-01 (included with this Addendum No. 2).
- 1.20 Drawing S03-02, SEDIMENTATION BASINS (NORTH) – TOP PLAN - GRATING AND RAILING - In the TOP PLAN – GRATING AND RAILING, add the following text “NATURAL” in between the words “DIA” and “GAS” for the text pointing to the west edge of the 4’-6” wide center walkway (running north-south in plan) similar to the text and location shown on revised Drawing S03-01 (included with this Addendum No. 2).
- 1.21 Drawing S03-02, SEDIMENTATION BASINS (NORTH) – TOP PLAN - GRATING AND RAILING - In the TOP PLAN – GRATING AND RAILING, add “KEY NOTE 7” and point to the east face of the 6’-0” wide western flume top slab (running north-south in plan) similar to the key note and location shown on revised Drawing S03-01 (included with this Addendum No. 2).
- 1.22 Drawing S03-03, RECARBONATION BASINS (NORTH) – TOP PLAN - REINFORCING - Delete this sheet in its entirety and substitute revised Drawing S03-03, included with this Addendum No. 2.
- 1.23 Drawing S03-04, RECARBONATION BASINS (NORTH) – TOP PLAN - GRATING AND RAILING - In the TOP PLAN – GRATING AND RAILING, add boxes around the dimensions that are similar to the boxed dimensions shown on revised Drawing S03-03 (included with this Addendum No. 2).
- 1.24 Drawing S10-02, SEDIMENTATION AND RECARBONATION BASINS (NORTH & SOUTH) – SECTIONS - Delete this sheet in its entirety and substitute revised Drawing S10-02, included with this Addendum No. 2.
- 1.25 Drawing S10-03, SEDIMENTATION AND RECARBONATION BASINS (NORTH & SOUTH) – SECTIONS AND DETAILS - Delete this sheet in its entirety and substitute revised Drawing S10-03, included with this Addendum No. 2.

- 1.26 Drawing S10-04, SEDIMENTATION AND RECARBONATION BASINS (NORTH & SOUTH) – SECTIONS, DETAILS, AND PHOTO – In DETAIL 11, add the following text “1” DIA CARBON DIOXIDE PIPE (KEY NOTE 7) SIM” AND “KEY NOTE 7” pointing at the east edge and text “2” DIA NATURAL GAS PIPE (KEY NOTE 7) SIM” pointing at the west edge of the 4’-6” wide center walkway similar to the text and location shown in SECTION 2 on revised Drawing S10-02 (included with this Addendum No. 2).

## ATTACHMENTS

Drawings attachments hereto are as follows:

- Drawing S01-01, RECARBONATION BASINS (SOUTH) – TOP PLAN - REINFORCING.
- Drawing S01-03, SEDIMENTATION BASINS (SOUTH) – TOP PLAN - REINFORCING.
- Drawing S03-01, SEDIMENTATION BASINS (NORTH) – TOP PLAN - REINFORCING.
- Drawing S03-03, RECARBONATION BASINS (NORTH) – TOP PLAN - REINFORCING.
- Drawing S10-02, SEDIMENTATION AND RECARBONATION BASINS (NORTH & SOUTH) – SECTIONS.
- Drawing S10-03, SEDIMENTATION AND RECARBONATION BASINS (NORTH & SOUTH) – SECTIONS AND DETAILS.

Other attachments hereto are as follows:

- Attachment #1 - Responses to Bidding Contractor’s Questions.

END OF ADDENDUM NO. 2





**CITY OF OREGON  
OREGON, OHIO  
WATER TREATMENT PLANT – CONCRETE REPLACEMENT PROJECT**

**Addendum No. 2  
Attachment #1  
May 8, 2024**

**BIDS TO BE OPENED: Tuesday, May 14, 2024 at 11:00 A.M.**

To: Prospective Bidders

From: **ARCADIS U.S., Inc.**  
**One Seagate, Suite 700**  
**Toledo, Ohio 43604**

Owner: **City of Oregon**  
**Department of Public Service**  
**5330 Seaman Road**  
**Oregon, Ohio 43616**

Subject: **Water Treatment Plant – Concrete Replacement Project**

**Responses to Bidding Contractor's Questions:**

1. Can the bid date be moved to May 10<sup>th</sup> @ 11:00 to give us more time to prepare the bid.

*Response: See Addendum No. 1 for bid date.*

2. Specification section 033000-3.8.B.4.a states, “unless otherwise approved by ENGINEER, provide water curing or form curing” and section 3.8.B.4.b states, “In liquid-retaining structures, provide water curing or form curing, unless other curing method is approved by ENGINEER. Requests to use liquid curing compound will be considered by ENGINEER on case-by-case basis. Request shall provide valid construction reason or safety reason why other curing methods are not viable.”

- a. Is it acceptable to utilize a liquid curing compound for the flume top slabs, top walkways, and struts?
  - i. Scaffolding/shoring will be required to form/place the new flume top slabs, top walkways, and struts. In order to water cure the slabs, soaker hoses will need to be strung out along the slabs and on top of the scaffolding. The soaker hoses may cause a safety concern and could impede accessibility of the scaffold walkway.

*Response: Yes, it is acceptable to utilize a liquid curing compound for the flume top slabs, top walkways, and struts.*

- b. If liquid curing compound is acceptable to be used for the flume top slabs, top walkway, and struts, will the curing compound need to be removed at the end of the curing period as noted in spec section 3.8.B.4.e?

*Response: At the end of the specified curing period, the curing compound will need removed as required to apply specified concrete sealer (see sealer manufacturer's installation recommendations).*

3. Specification section 033000-3.9 indicates that we need to apply a Type A Sealer (Euclid Chemical Company SuperRez Seal, or equal) on interior concrete surfaces and a Type B Sealer (Euclid Chemical Company BARCADE WB 244, or equal) on exterior concrete horizontal surfaces.

a. Are these requirements project specific?

*Response: Yes, these are project specific.*

b. Will the new top slabs, top walkways, and struts of the Recarb and Sedimentation Basins require a Type B Sealer to be used?

*Response: Yes.*

c. Will the interior slab repairs in the Chemical Building (shown on drawings S02-01 and S02-02) will require a Type A Sealer to be used?

*Response: Type A sealer will not be required for the minor top surface concrete repairs shown in Enlarged Top Plans 1 and 2 on drawing S02-02.*

4. The scale for drawing S01-01 is listed as 3/16" = 1'-0". All dimensions appear to scale correctly aside from the 27'-0" dimension and the 11'-6" dimension shown on the East side of the Recarbonation Basin. The 27'-0" annotated dimension scales to 26'-5 1/2" and the 11'-6" annotated dimension scales to 11'-1 1/2".

a. Can you please advise what these dimensions should be?

*Response: The specific dimensions referenced by the contractor are correct but not drawn to scale. This drawing has been revised and re-issued in Addendum No. 2 to provide clarity to this issue.*

5. The scale for drawing S01-03 is listed as 3/16" = 1'-0". All dimensions appear to scale correctly aside from the 25'-5", 12'- 1/2", and 87'-7" dimensions shown on the East side of the Sedimentation Basin. The 25'-5" dimension scales to 25'-10", the 12'- 1/2" dimension scales to 11'-10 1/2", and the 87'-7" dimension scales to 88'-0".

a. Can you please advise what these dimensions should be?

*Response: The specific dimensions referenced by the contractor are correct but not drawn to scale. This drawing has been revised and re-issued in Addendum No. 2 to provide clarity to this issue.*

6. The scale for drawing S03-01 is listed as 3/16" = 1'-0". There are (11) annotated dimensions that do not scale correctly. See attached mark-up showing dimensions that do NOT scale correctly.

a. Can you please advise what these dimensions should be?

*Response: Some of the specific dimensions referenced by the contractor are correct but not drawn to scale and some of the dimensions referenced are to scale. This drawing has been revised and re-issued in Addendum No. 2 to provide clarity to this issue.*

7. The scale for drawing S03-03 is listed as 3/16" = 1'-0". There are (12) annotated dimensions that do NOT scale correctly. See attached mark-up showing dimensions that do NOT scale correctly.
- a. Can you please advise what these dimensions should be?

Response: *Some of the specific dimensions referenced by the contractor are correct but not drawn to scale and some of the dimensions referenced are to scale. This drawing has been revised and re-issued in Addendum No. 2 to provide clarity to this issue.*

8. Can you please confirm that the only repair locations that require waterstop for the project is the full depth wall repairs shown on drawing S01-03 (Note #17)? Section #4 on drawing S10-03 (Full Thickness Wall Repair Section) is the only section that shows PPAWS or any type of waterstop being required.

Response: *Yes, confirmed.*

- a. Can you please confirm that NO waterstop is required at the joint between the top of existing walls and top slabs, top walkways, and struts in the Recarb and Sedimentation Basins?

Response: *Confirmed, no waterstop at the joint described.*

9. Where is Div 7 required on the project?

Response: *Specification Section 07 16 10 is called for in Detail 14 on S02-04.*

10. The specs and details call for kickplate on the handrail. If we reuse the existing handrail, do we need kickplate? If we replace all the handrail with new – is kickplate required since none is in use now?

Response: *New kickplate is required for all railing and handrail on the project, whether it is new or reused with new baseplates.*

11. Will we need to provide structural calcs for the new handrail baseplates?

Response: *Yes, structural calculations will need to be submitted for the new railing and handrail base plates and their anchorage into concrete to meet the specified loads.*

12. Will we need to provide structural calcs for all our formwork used for placing the new concrete?

Response: *Yes, brief structural calculations for the scaffolding/shoring of the elevated walkways, flume slabs and top slabs will need to be submitted for record purposes only.*

13. For the electrical conduits that we are temporarily taking down – will new wire need to be pulled when putting conduit back up? If so, could you provide the number and size of wires in the conduit.

Response: *Existing equipment and devices do not need to remain in service while the respective treatment basins are taken out of service. Following concrete replacement work, existing equipment and devices need to be reconnected and functional. Existing conduits and wires are summarized below:*

*North Sedimentation Basins Center Walkway conduits to Launder Building*

- a. 1" conduit with 3#8, 1 G
- b. ¾" conduit with shielded cable to pH probe

*North Sedimentation Basin West Flume wall conduit*

- a. ¾" conduit with shielded cable to pH probe

*South Sedimentation Basin Center Walkway conduits to Launder Building*

- a. 1" conduit with 3#8, 1 G
- b. ¾" conduit with shielded cable to pH probe

14. Sheet D01-01, Key #17 – Are we taking 4" off the whole south Recarb wall, or are we taking 4" of unsound concrete? If we are just taking the unsound concrete out, please provide a SF of concrete to be removed.

Response: Yes, as shown on the contract drawings.

15. Can you please advise if the new 1'-6" wide struts in the Sedimentation Basins are to be doweled into the existing columns? Detail 8 on drawing S10-03 does NOT appear to show any dowels being required.

Response: Yes, as shown in Detail 8 on Drawing S10-03 that has been revised and re-issued in Addendum No. 2.

16. Can you provide photos showing existing equipment when basins are drained and out of service?

Response: Yes, photos are included in Attachment #1 including:

- North Recarbonation Basin
- North Sedimentation Basin
- South Recarbonation Basin
- South Sedimentation Basin

17. Instead of "piecemealing" the concrete replacement areas of the elevated walkway slab immediately south of the existing Launder Building (for the South Recarbonation basins – shown on D01-03), would you be willing to consider replacing all the concrete in this area? If this approach was acceptable, what would the resteel requirements be for this elevated walkway slab? This same question applies to the similar elevated walkway slab immediately north of the existing Launder Building (for the North Recarbonation basins – shown on D03-03).

Response: Arcadis and the City are willing to consider removing and replacing the entire concrete elevated walkway slab in this area if it simplifies the demolition and construction process and can be achieved with same or less construction cost. See attached 2002 record drawing with markups showing the required elevated walkway slab reinforcement and dowel requirements associated with this approach.

END OF ATTACHMENT







North Sedimentation Basin







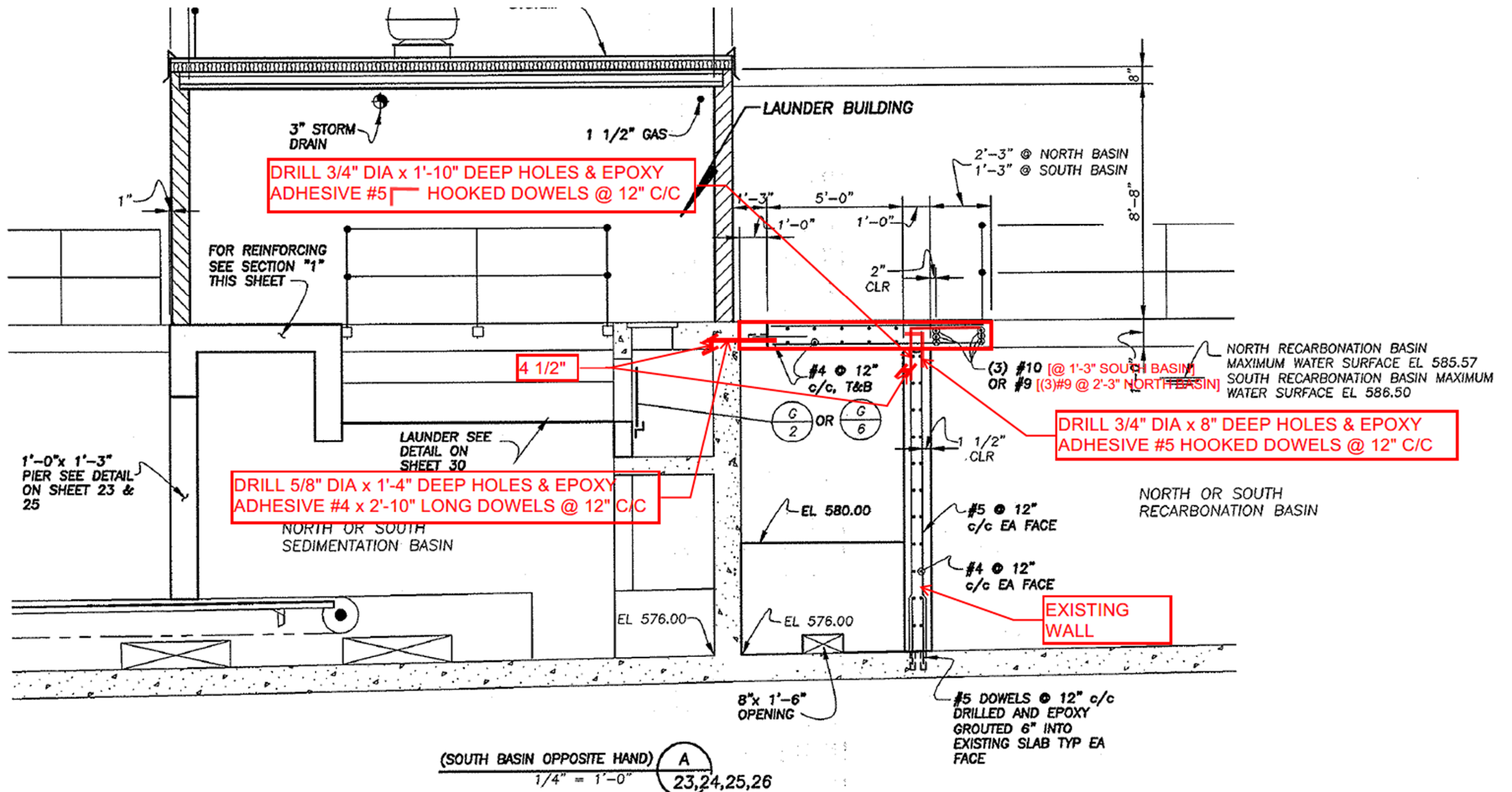
South Recarbonation Basin





South Sedimentation Basin



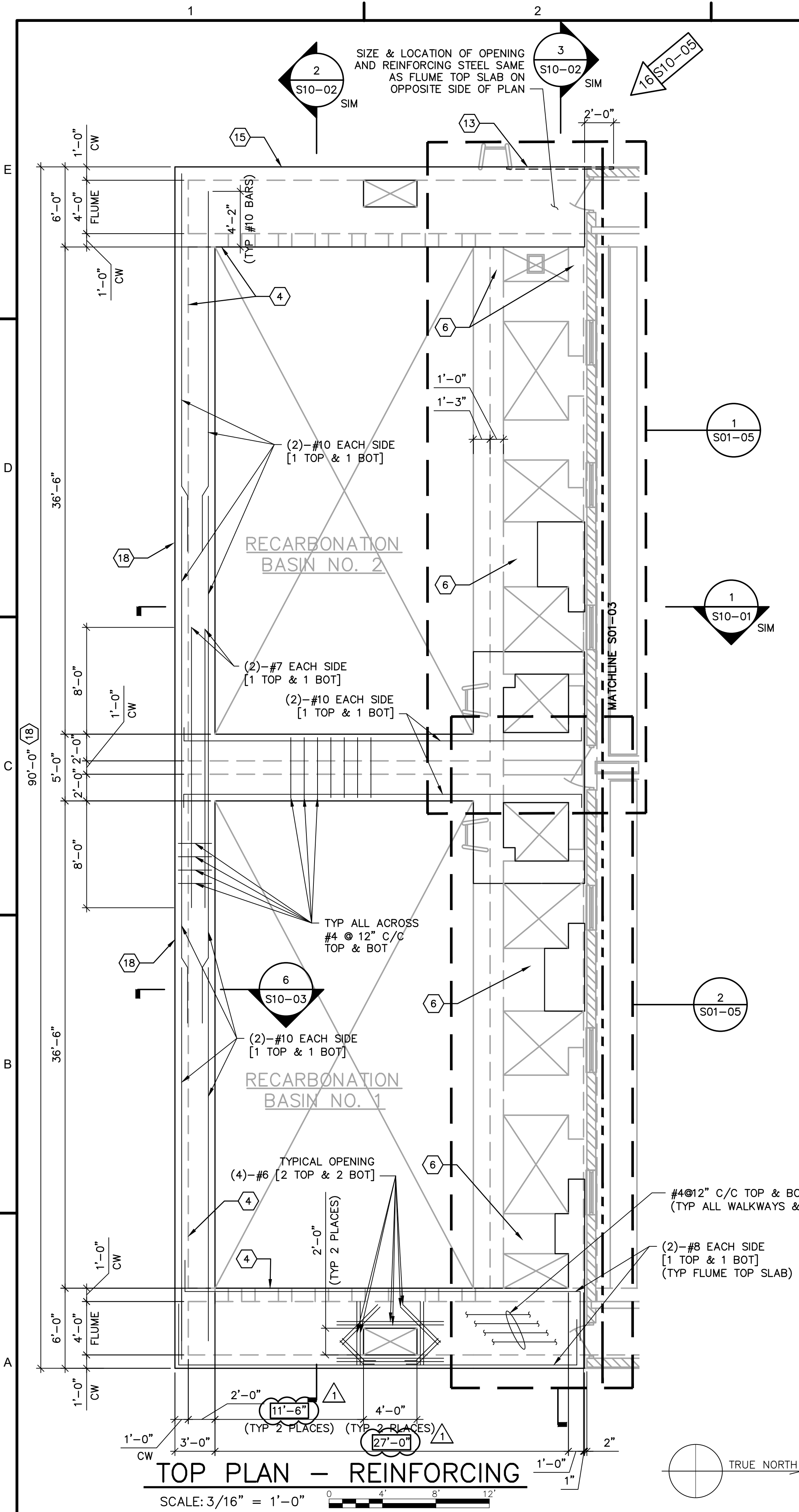


**FINKBEINER, PETTIS & STROUT, INC.**  
CONSULTING ENGINEERS  
TOLEDO, OHIO

SCALE  
AS NOTED  
DESIGNED BY  
L.E.T./J.J.S.  
DRAWN BY  
C.L.K.  
CHECKED BY  
J.L.S.

SEDIMENTATION BASINS PLANT-1  
**WATER TREATMENT  
PLANT IMPROVEMENTS  
OREGON, OHIO**

PROJECT NUMBER  
ORE001-001-B  
CAD NUMBER  
ORETB04A  
CONTRACT  
A  
DATE  
11-18-02  
27 OF 30



KEY #	KEY NOTES
4	EXTERIOR WALL BRACING MUST REMAIN IN PLACE UNTIL ALL NEW FLUME TOP SLABS, TOP WALKWAYS, AND STRUTS (FOR THAT PARTICULAR HALF OF THE STRUCTURE - SOUTH AND/OR NORTH) HAVE ACHIEVED THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
6	SHORING ON UNDERSIDE OF FLUME TOP SLAB, WALKWAY, AND TOP SLAB MUST REMAIN IN PLACE UNTIL THE NEW FLUME TOP SLAB, WALKWAY, AND TOP SLAB HAVE ACHIEVED THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
13	8'-0" LONG x 2'-0" TALL (ABOVE PAVEMENT) CONCRETE FLUME WALL EXTERIOR FACE PATCH TO BE REPAIRED (ASSUME 3" DEPTH INTO WALL). SEE WALL REPAIR SECTION 15 ON S10-04.
15	INJECTION GROUT "LEAKING" EXTERIOR FLUME WALL HAIRLINE CRACKS (BID QUANTITY FOR THIS SHEET = 10 L.F. OF CRACK REPAIRS NEEDED). CRACKS TO BE REPAIRED WILL BE LOCATED BY STRUCTURAL ENGINEER DURING CONSTRUCTION PHASE.
18	PARTIAL THICKNESS WALL REPAIR - REPAIR 4" THICKNESS OF EXTERIOR FACE OF SOUTH RECARBONATION BASIN WALLS FROM BOTTOM OF WALKWAY TOP SLAB TO 2'-0" BELOW EXISTING GRADE. CARE MUST BE TAKEN DURING SAWCUTTING AND DEMOLITION ACTIVITIES TO NOT DAMAGE EX VERTICAL RESTEEL IN WALL AS IT NEEDS TO BE SALVAGED IN ITS ENTIRETY FOR PROPOSED WALL REPAIR. SEE SECTION 6 ON S10-03 FOR DETAILS.

GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK SHOWN ON THIS DRAWING AND CALLED OUT IN NOTES AND KEY NOTES ON THIS DRAWING.
- DEMOLITION LIMITS SHOULD BE TAKEN TO SOUND CONCRETE. IF SOUND CONCRETE IS NOT FOUND AT THE DEMOLITION LIMITS AND DIMENSIONS SHOWN ON THE DRAWINGS, CONTRACTOR TO NOTE THE NEW DEMOLITION LIMITS (FOR QUANTITY DOCUMENTATION PURPOSES) AND NOTIFY THE ENGINEER SO A REMEDIAL ACTION PLAN CAN BE DETERMINED.
- CONTRACTOR MUST PROTECT ALL EX SEDIMENTATION AND RECARBONATION BASIN EQUIPMENT AND GATES DURING CONSTRUCTION ACTIVITIES.
- ALL EX STRUCTURE DIMENSIONS AND CONFIGURATIONS ARE BASED ON AS-BUILT DRAWINGS AND ARE APPROXIMATE (+/-).
- PROVIDE 3/4" CHAMFER ON ALL EXPOSED CORNERS AND ON ALL FLUME SLABS, TOP SLABS, AND WALKWAY TOP SURFACE EDGES.
- CONTRACTOR TO SUBMIT CONSTRUCTION JOINT LAYOUT (AND POUR SEQUENCE) FOR FLUME TOP SLABS, TOP WALKWAYS, AND STRUTS. MAXIMUM CONSTRUCTION JOINT SPACING TO BE 35'-0".

LEGEND:

11'-6" - DIMENSIONS WITH BOXES AROUND THEM IN PLAN ARE CORRECT BUT NOT DRAWN TO SCALE. THESE SAME DIMENSIONS WITH BOXES ALSO APPLY TO SHEETS S01-02 AND D01-01.



LEGAL ENTITY:  
ARCADIS U.S., INC.

CONSULTANTS

SEALS



CITY OF OREGON, OHIO



OREGON WATER TREATMENT  
PLANT - CONCRETE  
REPLACEMENT PROJECT

CLIENT PROJ. NO.: XXXXXXXXX.XXXX

REVISIONS			

1	5/3/2024	ADDENDUM #2	MSL
NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS U.S., INC.  
2023

PROJECT STATUS: BID SET

PROJECT NO.: 30114473

DATE: APRIL 2024

DESIGNED BY: M LOTYCZ

DRAWN BY: C KIRSCH

CHECKED BY: R KOLODZAIKE

SHEET TITLE

STRUCTURAL  
RECARBONATION BASINS  
(SOUTH)

TOP PLAN -  
REINFORCING

SCALE:

AS NOTED

0 1 2  
BAR IS ONE INCH ON  
UNREDUCED DRAWING

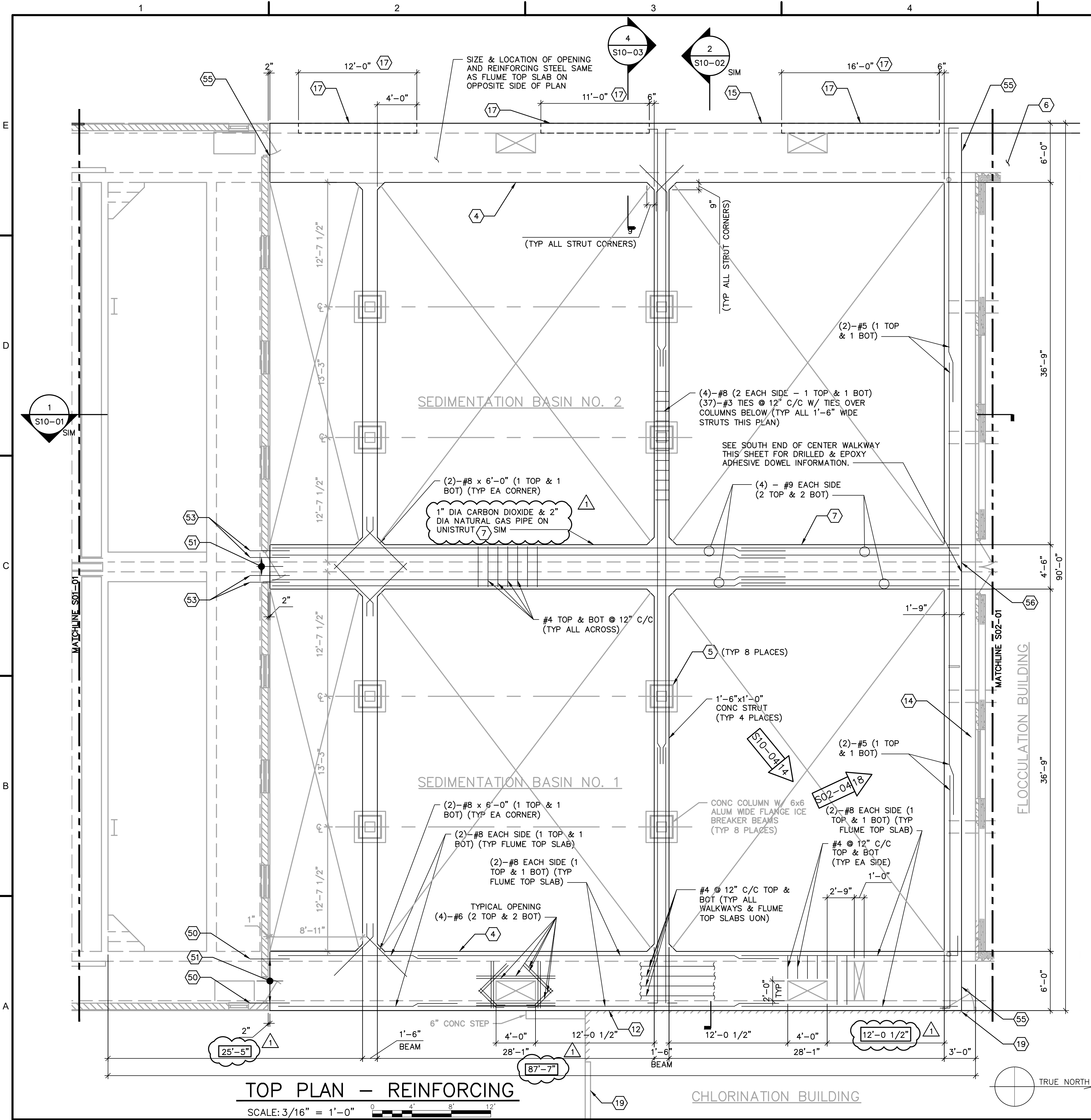
DRAWING NO.:

S01-01

SHEET NO.: - OF -



XREFS: \\0-Xref's\ANA NCS Title Block - 34 x 22.dwg - \\0-Xref's\PLANT 2 TREATMENT PLANT.dwg IMAGES: None  
User: CADD Spec: ACAD File: C:\Users\Kart\ARCADIS\30114473 - TO-OregonOH\2022-WTP Concrete Replacement ? Final Design - Documents\PROJECT08 CAD\04-STRUCTURAL\S01-03.DWG Scale: 1:1 Date: 05/26/2023 Time: 10:43 Layout: S01-03



KEY #	KEY NOTES
4	EXTERIOR WALL BRACING MUST REMAIN IN PLACE UNTIL ALL NEW FLUME TOP SLABS, TOP WALKWAYS, AND STRUTS (FOR THAT PARTICULAR HALF OF THE STRUCTURE - SOUTH AND/OR NORTH) HAVE ACHIEVED THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
5	COLUMN BRACING (TO SUPPORT EX STRUT SUPPORT COLUMNS) MUST REMAIN IN PLACE UNTIL THE NEW STRUTS HAVE ACHIEVED THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
6	SHORING ON UNDERSIDE OF FLUME TOP SLAB, WALKWAY, AND TOP SLAB MUST REMAIN IN PLACE UNTIL THE NEW FLUME TOP SLAB, WALKWAY, AND TOP SLAB HAVE ACHIEVED THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
7	RELOCATE EX ELECTRICAL AND INSTRUMENTATION CONDUITS (AND/OR INSTALL NEW) TO ALLOW FOR PROPOSED "WIDER" WALKWAY REPLACEMENT WORK.
12	SHORING ON UNDERSIDE OF FLUME TOP SLAB, WALKWAY, AND TOP SLAB MUST REMAIN IN PLACE UNTIL THE NEW FLUME TOP SLAB, WALKWAY, AND TOP SLAB HAVE ACHIEVED THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
14	REPAIR 6'-0" LONG SECTION OF UNDERSIDE OF CONCRETE BEAM EDGE UNDER FLOCCULATION BUILDING EXTERIOR WALL. SEE REPAIR DETAIL 17 ON S02-04.
15	INJECTION GROUT "LEAKING" EXTERIOR FLUME WALL HAIRLINE CRACKS (BID QUANTITY FOR THIS SHEET = 10 L.F. OF CRACK REPAIRS NEEDED). CRACKS TO BE REPAIRED WILL BE LOCATED BY STRUCTURAL ENGINEER DURING CONSTRUCTION PHASE.
17	FULL THICKNESS FLUME WALL REPAIR FROM BOTTOM OF FLUME TOP SLAB TO 3 INCHES ABOVE TOP OF EXISTING PAVEMENT. SEE SECTION 4 ON S10-03 FOR DETAILS.
19	CONTRACTOR TO MAINTAIN ACCESS TO THE CHLORINE ROOM AT ALL TIMES. COORDINATE ACTIVITIES AND ACCESS PROVISIONS WITH OWNER.

- GENERAL NOTES:
- CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK SHOWN ON THIS DRAWING AND CALLED OUT IN NOTES AND KEY NOTES ON THIS DRAWING.
  - DEMOLITION LIMITS SHOULD BE TAKEN TO SOUND CONCRETE. IF SOUND CONCRETE IS NOT FOUND AT THE DEMOLITION LIMITS AND DIMENSIONS SHOWN ON THE DRAWINGS, CONTRACTOR TO NOTE THE NEW DEMOLITION LIMITS (FOR QUANTITY DOCUMENTATION PURPOSES) AND NOTIFY THE ENGINEER SO A REMEDIAL ACTION PLAN CAN BE DETERMINED.
  - CONTRACTOR MUST PROTECT ALL EX SEDIMENTATION AND RECARBONATION BASIN EQUIPMENT AND GATES DURING CONSTRUCTION ACTIVITIES.
  - ALL EX STRUCTURE DIMENSIONS AND CONFIGURATIONS ARE BASED ON AS-BUILT DRAWINGS AND ARE APPROXIMATE (+/-).
  - PROVIDE 3/4" CHAMFER ON ALL EXPOSED CORNERS AND ON ALL FLUME SLABS, TOP SLABS, AND WALKWAY TOP SURFACE EDGES.
  - CONTRACTOR TO SUBMIT CONSTRUCTION JOINT LAYOUT (AND POUR SEQUENCE) FOR FLUME TOP SLABS, TOP WALKWAYS, AND STRUTS. MAXIMUM CONSTRUCTION JOINT SPACING TO BE 35'-0".

KEY #	KEY NOTES
50	DRILL 1 1/4" DIA 3'-2" DEEP HOLES & EPOXY ADHESIVE (2) - #8 x 6'-6" LONG DOWELS EACH SIDE, 1 SIDE TOP @ 4 1/2" COVER, 1 BOTTOM @ 4 1/2" COVER, AND TOP & BOTTOM BARS STAGGERED @ 4" C/C SPACING IN PLAN.
51	DRILL 5/8" DIA x 1'-4" DEEP HOLES & EPOXY ADHESIVE #4 x 3'-0" LONG DOWELS @ 12" CENTERED IN 12" SLAB.
53	DRILL 1 3/8" DIA x 3'-8" DEEP HOLES & EPOXY ADHESIVE (4) - #9 x 7'-6" LONG DOWELS EACH SIDE (2 TOP @ 4 1/2" COVER & 12" C/C SPACING, 2 BOTTOM @ 4 1/2" COVER & 12" C/C SPACING, AND TOP & BOTTOM BARS STAGGERED @ 6" C/C SPACING IN PLAN).
55	SEE SOUTH END OF EAST FLUME TOP SLAB THIS SHEET FOR DRILLED & EPOXY ADHESIVE DOWEL INFORMATION
56	SEE SOUTH END OF CENTER WALKWAY THIS SHEET FOR DRILLED & EPOXY ADHESIVE DOWEL INFORMATION

LEGEND:

25'-5" - DIMENSIONS WITH BOXES AROUND THEM IN PLAN ARE CORRECT BUT NOT DRAWN TO SCALE. THESE SAME DIMENSIONS WITH BOXES ALSO APPLY TO SHEETS S01-04 AND D01-02.

LEGAL ENTITY:  
ARCADIS U.S., INC.

CONSULTANTS

SEALS

CITY OF OREGON, OHIO

OREGON WATER TREATMENT  
PLANT - CONCRETE  
REPLACEMENT PROJECT

CLIENT PROJ. NO.: XXXXXXXX.XXXX

REVISIONS			
NO.	DATE	ISSUED FOR	BY
1	5/3/2024	ADDENDUM #2	MSL

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PROJECT STATUS: BID SET

PROJECT NO.: 30114473

DATE: APRIL 2024

DESIGNED BY: M LOTYCZ

DRAWN BY: C KIRSCH

CHECKED BY: R KOLODZAIKE

SHEET TITLE

STRUCTURAL  
SEDIMENTATION BASINS  
(SOUTH)

TOP PLAN -  
REINFORCING

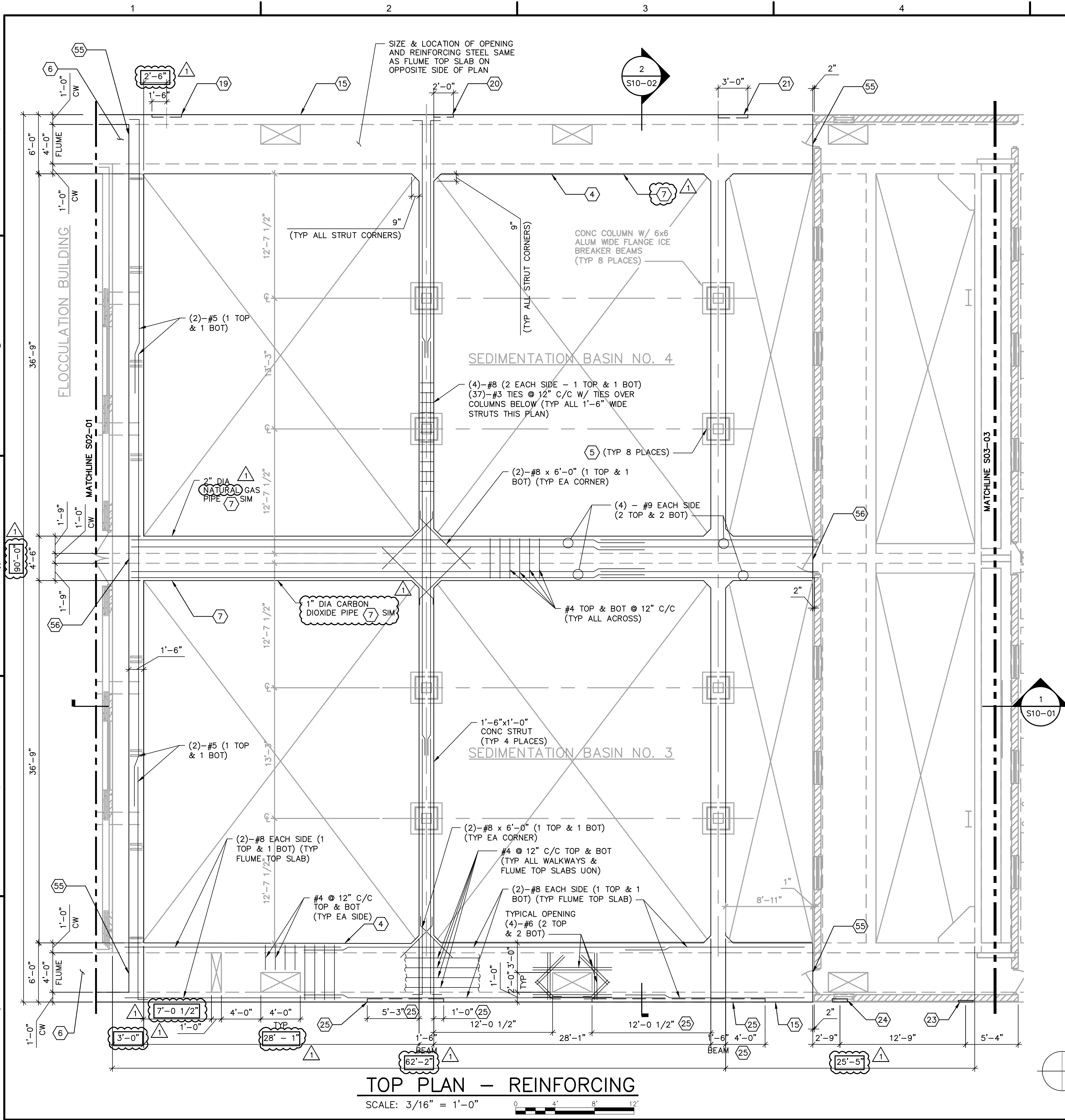
SCALE:  
AS NOTED

DRAWING NO.:  
S01-03

SHEET NO.: - OF -



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User:KARTZ Spec:ACAD File:C:\\Users\\Kartz\\ARCADIS\\30114473 - TO-OregonOH\\2022-WTP Concrete Replacement - Final Design - Documents\\PROJECT08 CAD\\04-STRUCTURAL\\S03-01.DWG Scale:1:1 Date:05/24/2023 Time:10:59 Layout:S03-01



KEY #	KEY NOTES
4	EXTERIOR WALL BRACING MUST REMAIN IN PLACE UNTIL ALL NEW FLUME TOP SLABS, TOP WALKWAYS, AND STRUTS (FOR THAT PARTICULAR HALF OF THE STRUCTURE - SOUTH AND/OR NORTH) HAVE ACHIEVED THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
5	COLUMN BRACING (TO SUPPORT EX STRUT SUPPORT COLUMNS) MUST REMAIN IN PLACE UNTIL THE NEW STRUTS HAVE ACHIEVED THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
6	SHORING ON UNDERSIDE OF FLUME TOP SLAB, WALKWAY, AND TOP SLAB MUST REMAIN IN PLACE UNTIL THE NEW FLUME TOP SLAB, WALKWAY, AND TOP SLAB HAVE ACHIEVED THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
7	RELOCATE EX ELECTRICAL AND INSTRUMENTATION CONDUITS (AND/OR INSTALL NEW) TO ALLOW FOR PROPOSED "WIDER" WALKWAY REPLACEMENT WORK.
15	INJECTION GROUT "LEAKING" EXTERIOR FLUME WALL HAIRLINE CRACKS (BID QUANTITY FOR THIS SHEET = 15 L.F. OF CRACK REPAIRS NEEDED). CRACKS TO BE REPAIRED WILL BE LOCATED BY STRUCTURAL ENGINEER DURING CONSTRUCTION PHASE.
19	3'-0" WIDE x 2'-6" TALL (ABOVE PAVEMENT) CONCRETE FLUME WALL EXTERIOR FACE PATCH TO BE REPAIRED (ASSUME 3" DEPTH INTO WALL). SEE WALL REPAIR SECTION 15 ON S10-04.
20	2'-0" WIDE x FULL HEIGHT (ABOVE PAVEMENT) CONCRETE FLUME WALL EXTERIOR FACE PATCH TO BE REPAIRED (ASSUME 3" DEPTH INTO WALL). SEE WALL REPAIR SECTION 15 ON S10-04.
21	3'-0" WIDE x FULL HEIGHT (ABOVE PAVEMENT) HOLLOW SOUNDING CONCRETE FLUME WALL EXTERIOR FACE TO BE REPAIRED (ASSUME 4" DEPTH INTO WALL). SEE WALL REPAIR SECTION 15 ON S10-04.
23	1'-6" WIDE x 1'-0" TALL x 2" DEEP CONCRETE FLUME WALL EXTERIOR SPALL (JUST ABOVE PAVEMENT) TO BE REPAIRED. SEE WALL REPAIR SECTION 15 ON S10-04.
24	1'-6" WIDE x 1'-0" TALL HOLLOW SOUNDING CONCRETE FLUME WALL EXTERIOR FACE TO BE REPAIRED (JUST UNDER 1'-0" THICK FLUME SLAB - ASSUME 4" DEPTH INTO WALL). SEE WALL REPAIR SECTION 15 ON S10-04.
25	EXTERIOR WALL REPAIR STARTING 1'-0" DOWN FROM TOP OF FLUME TOP SLAB TO 3 INCHES ABOVE TOP OF EXISTING PAVEMENT (ASSUME 4" WALL FACE DEPTH REMOVAL WHILE SALVAGING EXISTING VERTICAL RESTEEL AND USING MECHANICAL ANCHORS FOR BOND). SEE WALL REPAIR SECTION 15 ON S10-04.

GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK SHOWN ON THIS DRAWING AND CALLED OUT IN NOTES AND KEY NOTES ON THIS DRAWING.
- DEMOLITION LIMITS SHOULD BE TAKEN TO SOUND CONCRETE. IF SOUND CONCRETE IS NOT FOUND AT THE DEMOLITION LIMITS AND DIMENSIONS SHOWN ON THE DRAWINGS, CONTRACTOR TO NOTE THE NEW DEMOLITION LIMITS (FOR QUANTITY DOCUMENTATION PURPOSES) AND NOTIFY THE ENGINEER SO A REMEDIAL ACTION PLAN CAN BE DETERMINED.
- CONTRACTOR MUST PROTECT ALL EX SEDIMENTATION AND RECARBONATION BASIN EQUIPMENT AND GATES DURING CONSTRUCTION ACTIVITIES.
- ALL EX STRUCTURE DIMENSIONS AND CONFIGURATIONS ARE BASED ON AS-BUILT DRAWINGS AND ARE APPROXIMATE (+/-).
- PROVIDE 3/4" CHAMFER ON ALL EXPOSED CORNERS AND ON ALL FLUME SLABS, TOP SLABS, AND WALKWAY TOP SURFACE EDGES.
- CONTRACTOR TO SUBMIT CONSTRUCTION JOINT LAYOUT (AND POUR SEQUENCE) FOR FLUME TOP SLABS, TOP WALKWAYS, AND STRUTS. MAXIMUM CONSTRUCTION JOINT SPACING TO BE 35'-0".

KEY #	KEY NOTES
55	SEE SOUTH END OF EAST FLUME TOP SLABS ON SHEET S01-03 FOR DRILLED & EPOXY ADHESIVE DOWEL INFORMATION
56	SEE SOUTH END OF CENTER WALKWAY ON SHEET S01-03 FOR DRILLED & EPOXY ADHESIVE DOWEL INFORMATION

LEGEND:

3'-0" - DIMENSIONS WITH BOXES AROUND THEM IN PLAN ARE CORRECT BUT NOT DRAWN TO SCALE. THESE SAME DIMENSIONS WITH BOXES ALSO APPLY TO SHEETS S03-02 AND D03-01.



LEGAL ENTITY:  
ARCADIS U.S., INC.

CONSULTANTS

SEALS



CITY OF OREGON, OHIO



OREGON WATER TREATMENT  
PLANT - CONCRETE  
REPLACEMENT PROJECT

CLIENT PROJ. NO.: XXXXXXXXXX.XXXX

REVISIONS			
1	5/3/2024	ADDENDUM #2	MSL
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PROJECT STATUS: BID SET

PROJECT NO.:	30114473
DATE:	APRIL 2024
DESIGNED BY:	M LOTYCZ
DRAWN BY:	C KIRSCH
CHECKED BY:	R KOLODZAIKE

SHEET TITLE

STRUCTURAL  
SEDIMENTATION BASINS  
(NORTH)

TOP PLAN -  
REINFORCING

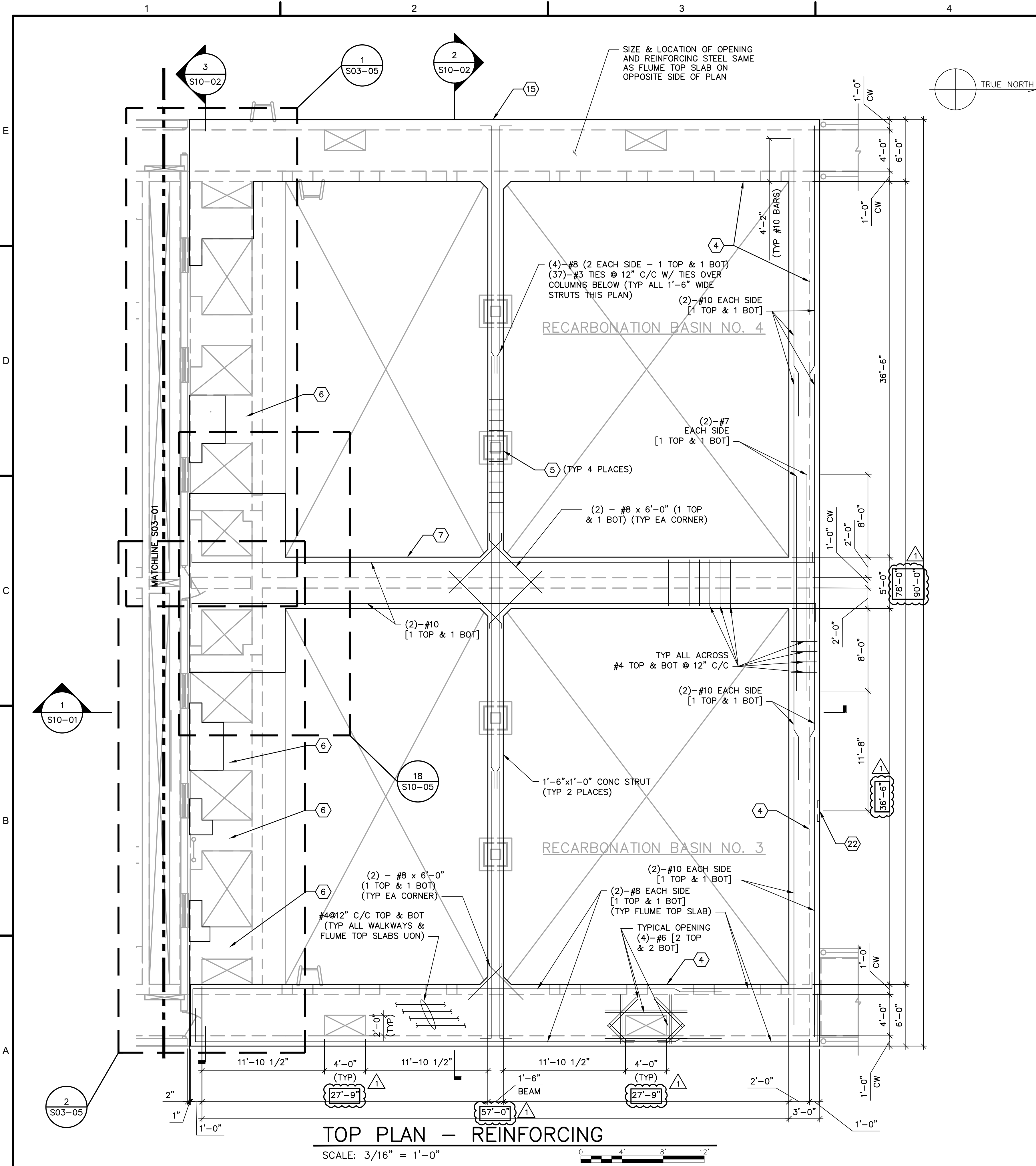
SCALE:  
AS NOTED

DRAWING NO.:

S03-01

SHEET NO.: - OF -





KEY #	KEY NOTES
4	EXTERIOR WALL BRACING MUST REMAIN IN PLACE UNTIL ALL NEW FLUME TOP SLABS, TOP WALKWAYS, AND STRUTS (FOR THAT PARTICULAR HALF OF THE STRUCTURE - SOUTH AND/OR NORTH) HAVE ACHIEVED THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
5	COLUMN BRACING (TO SUPPORT EX STRUT SUPPORT COLUMNS) MUST REMAIN IN PLACE UNTIL THE NEW STRUTS HAVE ACHIEVED THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
6	SHORING ON UNDERSIDE OF FLUME TOP SLAB, WALKWAY, AND TOP SLAB MUST REMAIN IN PLACE UNTIL THE NEW FLUME TOP SLAB, WALKWAY, AND TOP SLAB HAVE ACHIEVED THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
7	RELOCATE EX ELECTRICAL AND INSTRUMENTATION CONDUITS (AND/OR INSTALL NEW) TO ALLOW FOR PROPOSED "WIDER" WALKWAY REPLACEMENT WORK.
15	INJECTION GROUT "LEAKING" EXTERIOR FLUME WALL HAIRLINE CRACKS (BID QUANTITY FOR THIS SHEET = 10 L.F. OF CRACK REPAIRS NEEDED). CRACKS TO BE REPAIRED WILL BE LOCATED BY STRUCTURAL ENGINEER DURING CONSTRUCTION PHASE.
22	2'-0" WIDE x 1'-6" TALL CONCRETE WALL EXTERIOR FACE PATCH TO BE REPAIRED (ASSUME 3" DEPTH INTO WALL). SEE WALL REPAIR SECTION 15 ON S10-04.

- GENERAL NOTES:
- CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK SHOWN ON THIS DRAWING AND CALLED OUT IN NOTES AND KEY NOTES ON THIS DRAWING.
  - DEMOLITION LIMITS SHOULD BE TAKEN TO SOUND CONCRETE. IF SOUND CONCRETE IS NOT FOUND AT THE DEMOLITION LIMITS AND DIMENSIONS SHOWN ON THE DRAWINGS, CONTRACTOR TO NOTE THE NEW DEMOLITION LIMITS (FOR QUANTITY DOCUMENTATION PURPOSES) AND NOTIFY THE ENGINEER SO A REMEDIAL ACTION PLAN CAN BE DETERMINED.
  - CONTRACTOR MUST PROTECT ALL EX SEDIMENTATION AND RECARBONATION BASIN EQUIPMENT AND GATES DURING CONSTRUCTION ACTIVITIES.
  - ALL EX STRUCTURE DIMENSIONS AND CONFIGURATIONS ARE BASED ON AS-BUILT DRAWINGS AND ARE APPROXIMATE (+/-).
  - PROVIDE 3/4" CHAMFER ON ALL EXPOSED CORNERS AND ON ALL FLUME SLABS, TOP SLABS, AND WALKWAY TOP SURFACE EDGES.
  - CONTRACTOR TO SUBMIT CONSTRUCTION JOINT LAYOUT (AND POUR SEQUENCE) FOR FLUME TOP SLABS, TOP WALKWAYS, AND STRUTS. MAXIMUM CONSTRUCTION JOINT SPACING TO BE 35'-0".

LEGEND:

27'-9" - DIMENSIONS WITH BOXES AROUND THEM IN PLAN ARE CORRECT BUT NOT DRAWN TO SCALE. THESE SAME DIMENSIONS WITH BOXES ALSO APPLY TO SHEETS S03-04 AND D03-02.



LEGAL ENTITY:  
ARCADIS U.S., INC.

CONSULTANTS

SEALS



CITY OF OREGON, OHIO



OREGON WATER TREATMENT  
PLANT - CONCRETE  
REPLACEMENT PROJECT

CLIENT PROJ. NO.: XXXXXXXXXX.XXXX

REVISIONS			
NO.	DATE	ISSUED FOR	BY

1 5/3/2024 ADDENDUM #2 MSL

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PROJECT STATUS: BID SET

PROJECT NO.: 30114473

DATE: APRIL 2024

DESIGNED BY: M. LOTYCZ

DRAWN BY: C. KIRSCH

CHECKED BY: R. KOLODZAIKE

SHEET TITLE

STRUCTURAL  
RECARBONATION BASINS  
(NORTH)

TOP PLAN -  
REINFORCING

SCALE:  
AS NOTED

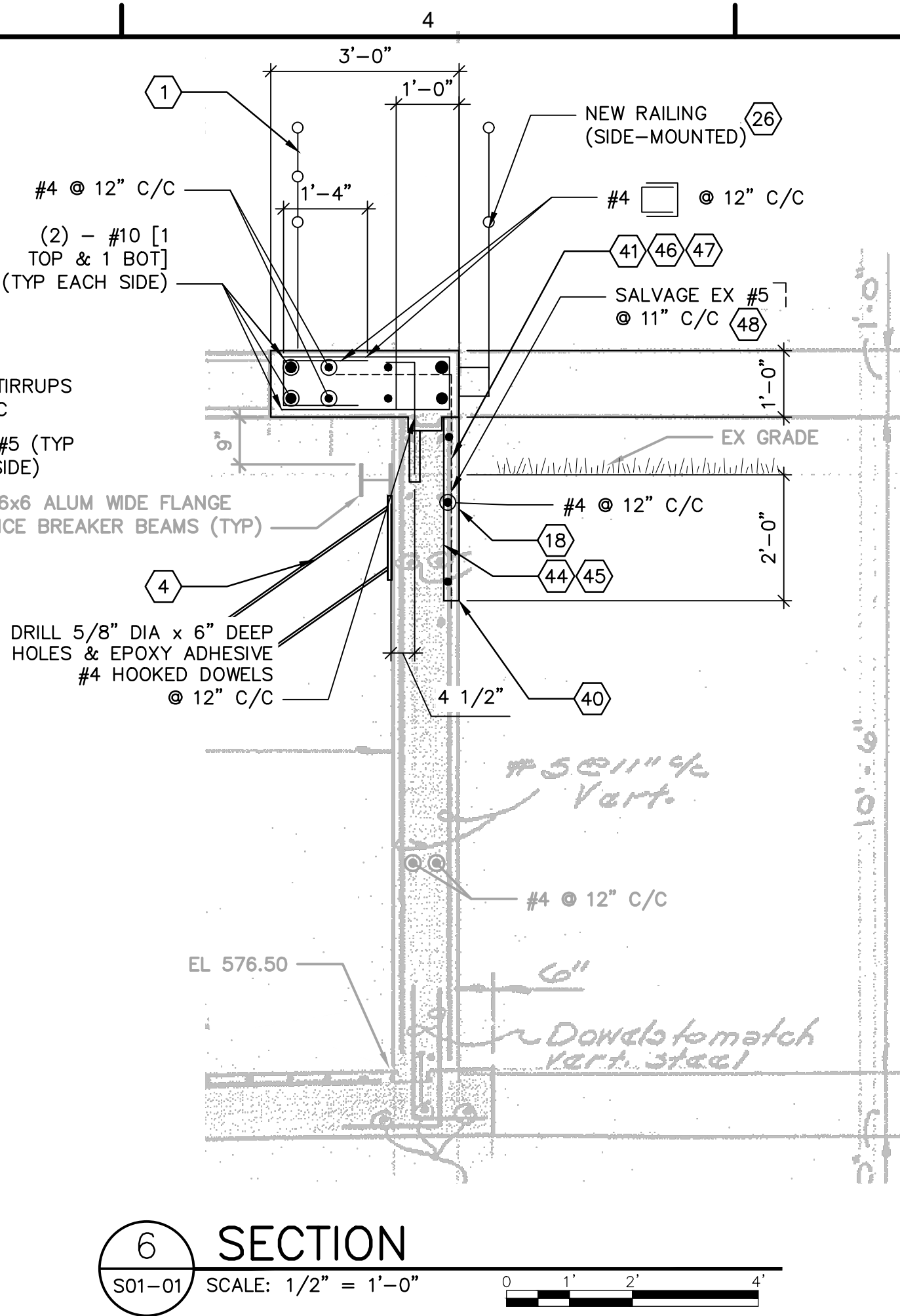
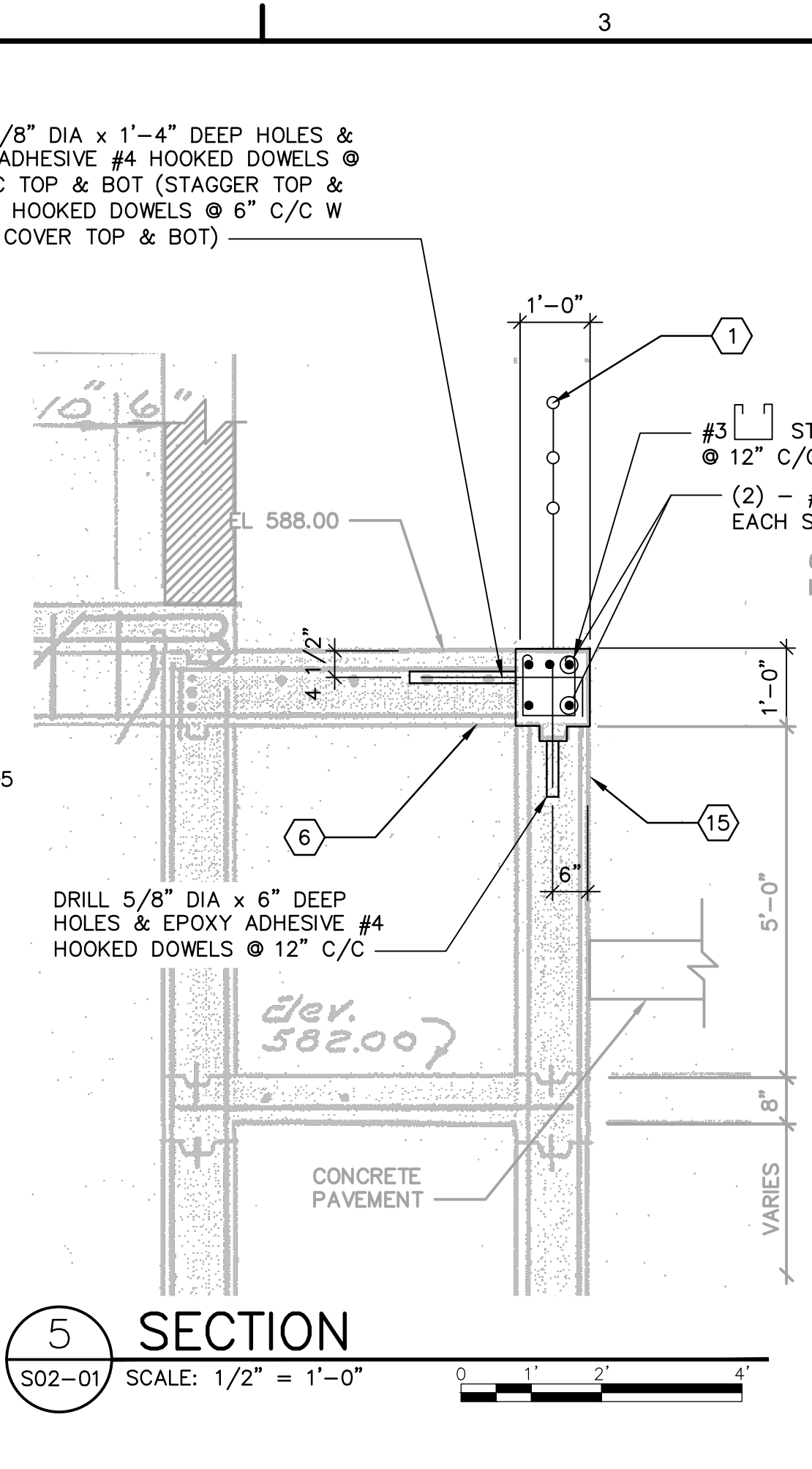
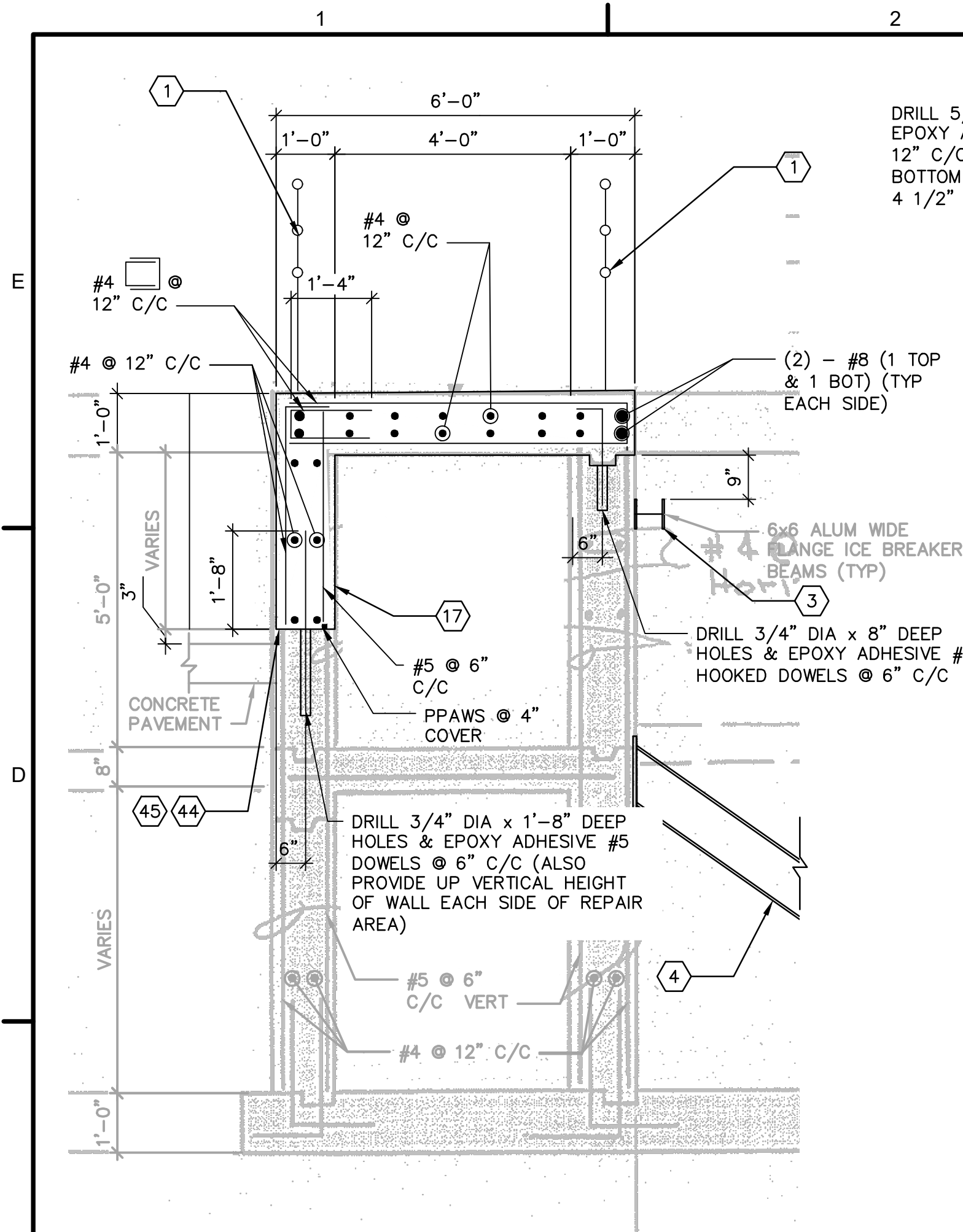
DRAWING NO.: S03-03

SHEET NO.: - OF -

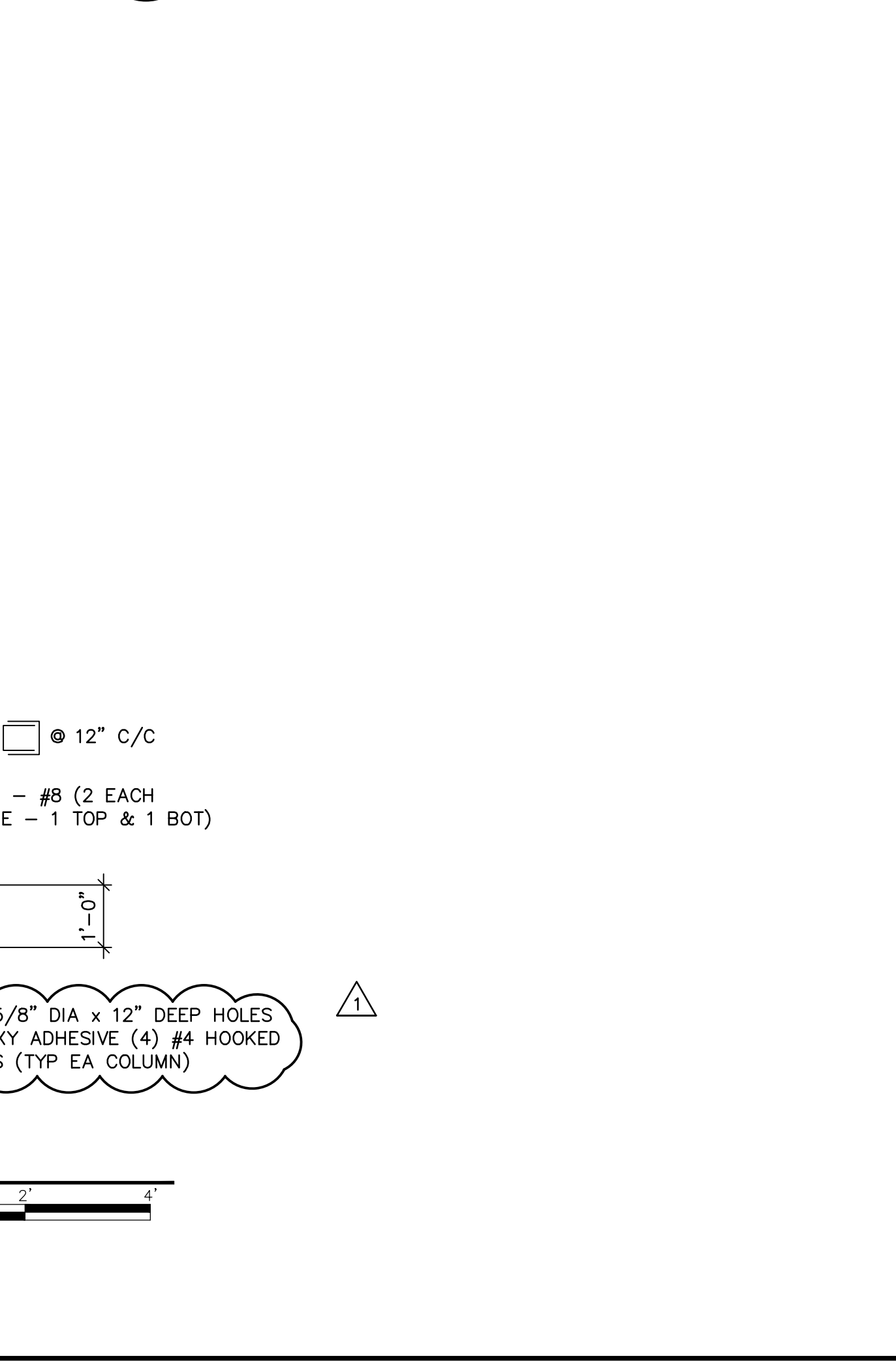
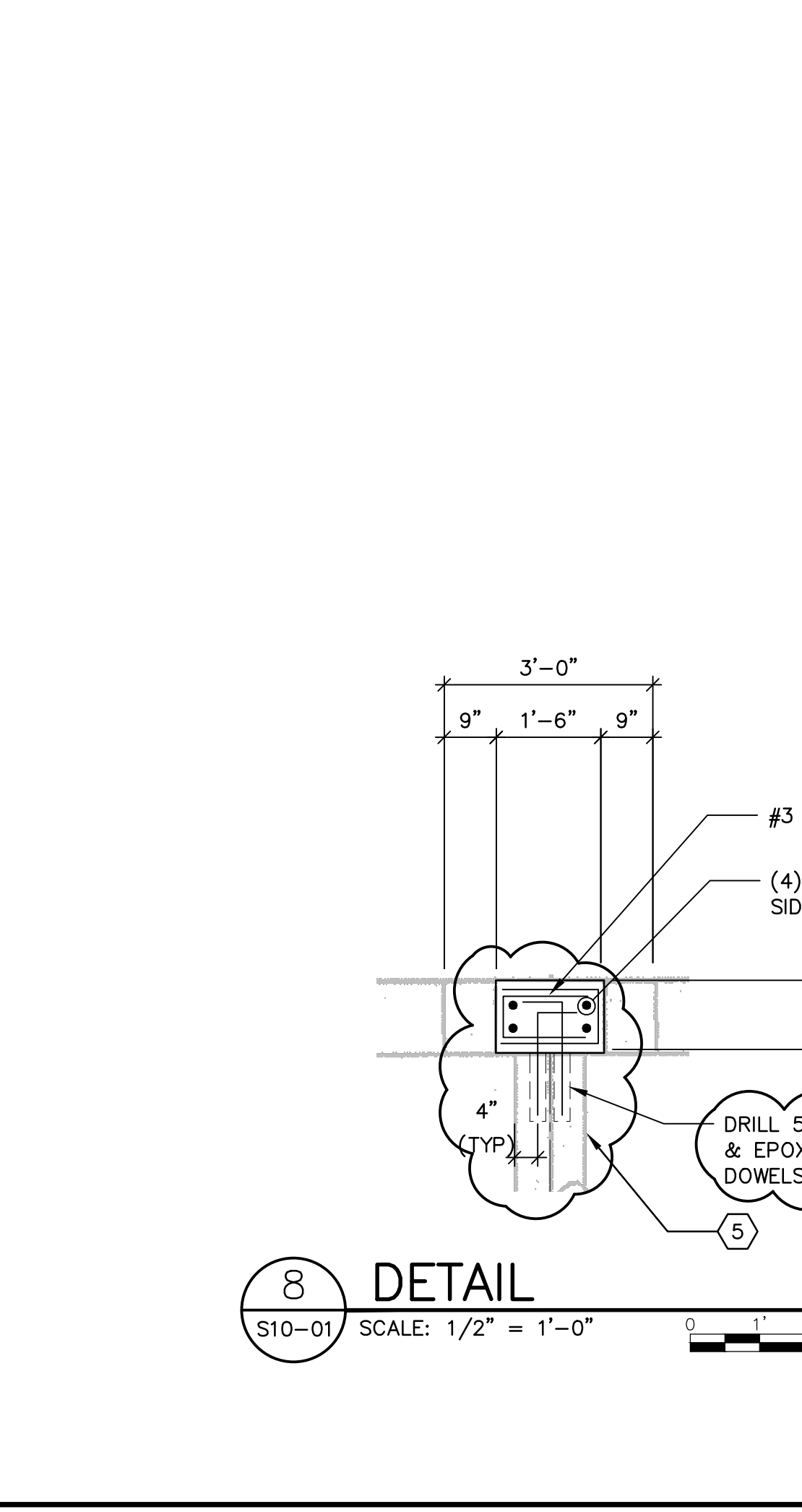
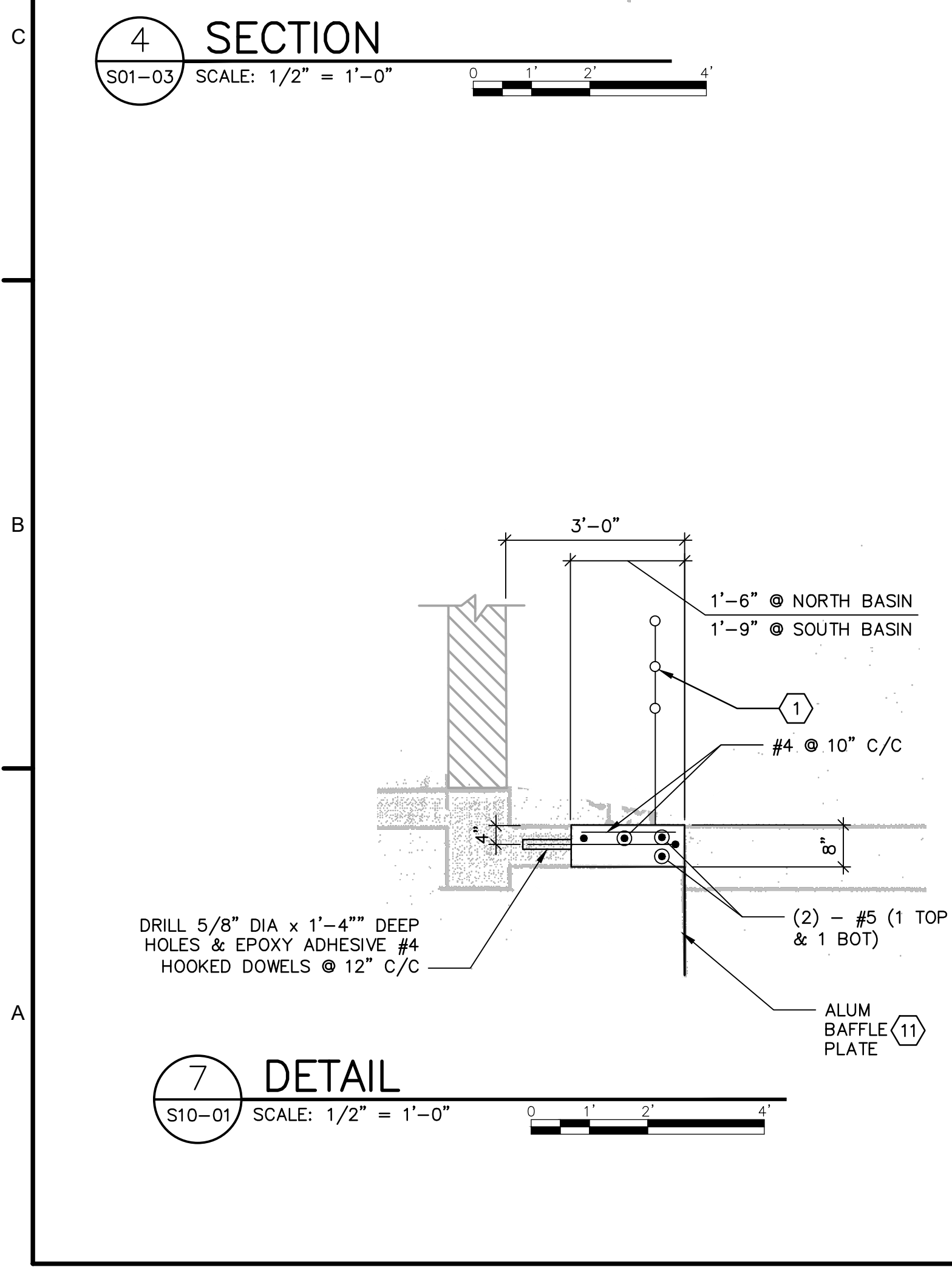








KEY #	KEY NOTES
1	FOLLOWING COMPLETION OF CONCRETE TOP SLAB AND WALKWAY REPLACEMENT, EX ALUMINUM RAILING CAN BE RE-INSTALLED BY SETTING THE EX SAWCUT POSTS IN NEW TOP MOUNTED ALUMINUM BASE BRACKETS. MODIFICATIONS TO THE EX RAILING MAY BE REQUIRED AND NEW POSTS AND NEW RAILING WILL BE NEEDED SO THE FINAL RAILING INSTALLATION LAYOUT MATCHES WHAT IS SHOWN ON THE STRUCTURAL DRAWINGS. ALTERNATIVELY, THE CONTRACTOR CAN DEMOLISH THE EX ALUMINUM RAILING AND PROVIDE ALL NEW TOP MOUNTED ALUMINUM RAILING.
3	FOLLOWING COMPLETION OF CONCRETE TOP SLAB AND WALKWAY REPLACEMENT, EX 6" x 6" ALUM WIDE FLANGE ICE BREAKER BEAMS TO BE RE-INSTALLED TO THE CONCRETE WALLS AND COLUMNS WITH THE EX 3/4" DIAMETER EXPANSION ANCHORS AT 3'-0" C/C ALONG WALL (TOP AND BOTTOM ANCHORS EACH SIDE OF BEAM WEB STAGGERED AT 1'-6" C/C).
4	EXTERIOR WALL BRACING MUST REMAIN IN PLACE UNTIL ALL NEW FLUME TOP SLABS, TOP WALKWAYS, AND STRUTS (FOR THAT PARTICULAR HALF OF THE STRUCTURE - SOUTH AND/OR NORTH) HAVE ACHIEVED THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
5	COLUMN BRACING (TO SUPPORT EX STRUT SUPPORT COLUMNS) MUST REMAIN IN PLACE UNTIL THE NEW STRUTS HAVE ACHIEVED THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
6	SHORING ON UNDERSIDE OF FLUME TOP SLAB, WALKWAY, AND TOP SLAB MUST REMAIN IN PLACE UNTIL THE NEW FLUME TOP SLAB, WALKWAY, AND TOP SLAB HAVE ACHIEVED THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
11	RE-INSTALL EX ALUMINUM BAFFLE PLATE AND BRACKET MOUNTED ON SIDE FACE AND UNDERSIDE OF WALKWAY EDGE AFTER CONCRETE WALKWAY REPLACEMENT WORK IS COMPLETED. SEE SECTION 1 ON D10-03 FOR DETAILS.
15	INJECTION GROUT "LEAKING" EXTERIOR FLUME WALL HAIRLINE CRACKS (BID QUANTITY OF CRACK REPAIRS NEED IS LISTED ON S SERIES PLAN SHEETS). CRACKS TO BE REPAIRED WILL BE LOCATED BY STRUCTURAL ENGINEER DURING CONSTRUCTION PHASE.
17	FULL THICKNESS FLUME WALL REPAIR FROM BOTTOM OF FLUME TOP SLAB TO 3 INCHES ABOVE TOP OF EXISTING PAVEMENT. SEE SECTION 4 ON S10-03 FOR DETAILS.
18	PARTIAL THICKNESS WALL REPAIR - REPAIR 4" THICKNESS OF EXTERIOR FACE OF SOUTH RECARBONATION BASIN WALLS FROM BOTTOM OF WALKWAY TOP SLAB TO 2'-0" BELOW EXISTING GRADE. CARE MUST BE TAKEN DURING SAWCUTTING AND DEMOLITION ACTIVITIES TO NOT DAMAGE EX VERTICAL RESTEEL IN WALL AS IT NEEDS TO BE SALVAGED IN ITS ENTIRETY FOR PROPOSED WALL REPAIR. SEE SECTION 6 ON S10-03 FOR DETAILS.
26	NEW SIDE-MOUNTED RAILING TO BE MOUNTED SUCH THAT CENTERLINE OF WALL BRACKET (AND CENTERLINE OF ANCHOR BOLTS VERTICALLY) IS CENTERED ON 1'-0" THICK SLAB EDGE.



KEY #	KEY NOTES
40	SAWCUT THE PERIMETER EDGES OF THE REPAIR AREA TO A MINIMUM THICKNESS OF 1-INCH (WHILE AVOIDING CUTTING THE EXISTING REINFORCING STEEL).
41	REMOVE ALL LOOSE CONCRETE (HOLLOW SOUNDING AND SPALLING CONCRETE) DOWN TO SOUND CONCRETE (NO MORE THAN 4-INCHES DEEP INTO 12-INCH THICK SLAB) AND TO 1" BEHIND ALL REINFORCING BARS THAT ARE EXPOSED DURING LOOSE CONCRETE REMOVAL. EXPOSED CORRODED REINFORCING BARS TO BE BLAST CLEANED.
44	ALL EXISTING CONCRETE SURFACES THAT ARE TO RECEIVE REPAIR MORTAR SHALL BE BLAST CLEANED AND A CORROSION INHIBITOR APPLIED TO THE SURFACE.
45	ONCE THE CORROSION INHIBITOR HAS CURED AND CONCRETE SURFACE HAS BEEN CLEANED OF ANY CORROSION INHIBITOR FILM/RESIDUE, APPLY BONDING AGENT TO THE CONCRETE SURFACE.
46	PLACE CEMENTITIOUS REPAIR MORTAR.
47	IF THE REPAIR MORTAR THICKNESS EXCEEDS 2-INCHES, INSTALL 1/4-INCH DIAMETER SST HEX HEAD TAPCON ANCHORS AT 8-INCH SPACING EACH WAY (I.E. 8-INCH SQUARE GRID SPACING) WITH 1 1/2-INCHES OF COVER OVER TAPCON HEADS FROM CONCRETE SURFACE AND AT AN EMBEDMENT DEPTH OF THE ANCHORS INTO THE SOUND CONCRETE OF 3-INCHES.
48	NOTIFY ENGINEER IF EXISTING REINFORCING BARS HAVE 1/8-INCH OR MORE OF CORROSION (I.E. SECTION LOSS) SO THAT A REMEDIAL ACTION PLAN CAN BE DETERMINED.

- GENERAL NOTES:**
- CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK SHOWN ON THIS DRAWING AND CALLED OUT IN NOTES AND KEY NOTES ON THIS DRAWING.
  - DEMOLITION LIMITS SHOULD BE TAKEN TO SOUND CONCRETE. IF SOUND CONCRETE IS NOT FOUND AT THE DEMOLITION LIMITS AND DIMENSIONS SHOWN ON THE DRAWINGS, CONTRACTOR TO NOTE THE NEW DEMOLITION LIMITS (FOR QUANTITY DOCUMENTATION PURPOSES) AND NOTIFY THE ENGINEER SO A REMEDIAL ACTION PLAN CAN BE DETERMINED.
  - CONTRACTOR MUST PROTECT ALL EX SEDIMENTATION AND RECARBONATION BASIN EQUIPMENT AND GATES DURING CONSTRUCTION ACTIVITIES.
  - ALL EX STRUCTURE DIMENSIONS AND CONFIGURATIONS ARE BASED ON AS-BUILT DRAWINGS AND ARE APPROXIMATE (+/-).
  - PROVIDE 3/4" CHAMFER ON ALL EXPOSED CORNERS AND ON ALL FLUME SLABS, TOP SLABS, AND WALKWAY TOP SURFACE EDGES.

LEGAL ENTITY:  
ARCADIS U.S., INC.

CONSULTANTS

SEALS

CITY OF OREGON, OHIO

OREGON  
OPPORTUNITY ON THE BAY

OREGON WATER TREATMENT  
PLANT - CONCRETE  
REPLACEMENT PROJECT

CLIENT PROJ. NO.: XXXXXXXX.XXXX

REVISIONS

NO.	DATE	ISSUED FOR	BY
1	5/3/2024	ADDENDUM #2	MSL

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PROJECT STATUS: BID SET

PROJECT NO.: 30114473

DATE: APRIL 2024

DESIGNED BY: M. LOTYCZ

DRAWN BY: C. KIRSCH

CHECKED BY: R. KOLODZAIKE

SHEET TITLE

STRUCTURAL  
SEDIMENTATION AND  
RECARBONATION BASINS  
(NORTH & SOUTH)

SECTIONS AND  
DETAILS

SCALE:  
AS NOTED

DRAWING NO.:  
S10-03

SHEET NO.: - OF -