

INSTALLATION INSTRUCTIONS:

STEP 1: BEFORE STARTING THE INSTALLATION, ENSURE THAT THE CONCRETE SURFACE IS CLEAN AND EVEN. COMPLETE ANY NECESSARY CONCRETE REPAIRS, AND REMOVE ANY DIRT, LOOSE BARRIERS, OR COATINGS. THE SURFACE MUST NOT HAVE ANY RELIEF CHANGES OF MORE THAN 3MM (1/8"). BLOW THE SURFACE CLEAN OF ANY DUST AND BLAST MEDIA WITH DRY COMPRESSED AIR, AND VACUUM CLEAN IF REQUIRED. PRIOR TO THE INSTALLATION OF THE ANODE, THE CONCRETE MUST BE WET WITH WATER TO A POINT WHERE SURFACE SATURATED DRY CONDITIONS ARE ACHIEVED.

STEP 2: DETERMINE THE LOCATION FOR THE ANODE INSTALLATION AND USE A CHALK LINE TO MARK THE TOP LINE OF THE ANODES. ALONG THE LENGTH OF THE ANODE INSTALLATION, USE A REBAR LOCATING DEVICE TO FIND REINFORCING STEEL TO MAKE A CONNECTION WITHIN 100MM (4") OF EACH END OF THE ANODE. IF YOU ARE LINKING MULTIPLE UNITS TOGETHER, CONSULT THE TECHNICAL DATASHEET OR THE ENGINEER FOR STEEL CONNECTION REQUIREMENTS AND MAXIMUM SPACING.

STEP 3: THE GALVASHIELD® SURFACE MOUNTED DAS CAN OPTIONALLY BE INSTALLED USING OUR MOUNTING TRACK KIT. IF YOU ARE NOT USING THIS KIT, SKIP TO STEP 4B. INSTALL THE MOUNTING TRACK ALONG THE CHALK LINE, PLACING IT NEAR THE CENTER OF THE DESIRED ANODE LOCATION. MARK THE POINTS FOR THE DRILLED HOLES FOR THE CONCRETE ANCHORS USING THE HOLES ON THE MOUNTING TRACK. DRILL A 6MM (1/4") HOLE AT EACH MARK. ONCE THE HOLES HAVE BEEN DRILLED, ANCHOR THE MOUNTING TRACK WITH SUPPLIED ANCHORS. AVOID OVERTIGHTENING TO PREVENT DEFORMATION OF THE MOUNTING TRACK.

STEP 4A: IF THE MOUNTING TRACK WAS USED, HANG THE ANODE ONTO THE MOUNTING TRACK AND POSITION IT TO MARK LOCATIONS FOR DRILLING ANCHOR HOLES. REMOVE THE ANODE FROM THE MOUNTING TRACK AND DRILL THE MARKED LOCATIONS WITH A 6MM (1/4") DRILL BIT.

STEP 4B: HOLD THE ANODE IN POSITION, THEN MARK LOCATIONS FOR DRILLING ANCHOR HOLES. MARK THE REMAINING ANCHOR HOLES LOCATED ON THE WIRING TRACK OF THE ANODE. REMOVE THE ANODE AND DRILL THE MARKED LOCATIONS WITH A 4MM (5/32") DRILL BIT.

STEP 5: USE GALVASHIELD® EMBEDDING MORTAR TO FILL THE AREA BETWEEN THE ANODE AND THE SURFACE OF THE CONCRETE. MIX THE MORTAR AS DIRECTED. IF THE CONCRETE SURFACE CONTAINS LARGE VOIDS OR DEPRESSIONS, FILL THEM WITH MORTAR TO ENSURE NO AIR GAPS ARE LEFT BEHIND THE ANODE. USE THE CUSTOM V-NOTCHED TROWEL TOOL TO SPREAD THE MORTAR COMPLETELY ALONG THE ENTIRE LENGTH OF THE ANODE, LEAVING A RIDGED PROFILE OF THE MORTAR TO ENSURE PROPER BONDING OF THE ANODE TO THE CONCRETE.

STEP 6: SATURATE CONCRETE SURFACE WITH WATER BEFORE APPLYING ANODE. ENSURE NO STANDING WATER. CAREFULLY LINE UP THE ANODE TO THE DRILLED ANCHOR HOLES. THE MOUNTING TRACK CAN BE USED TO HELP WITH ALIGNMENT. PRESS THE ANODE FIRMLY ONTO THE CONCRETE, ALLOWING MORTAR TO SPREAD OUT UNDER THE ANODE AND ELIMINATING ANY VOIDS OR GAPS. FASTEN THE ANODE TO THE CONCRETE USING SUPPLIED ANCHORS.

STEP 7: MAKE CONNECTIONS TO STEEL AS PER ENGINEER'S INSTRUCTIONS. ANODE WIRES ARE CONNECTED TO THE STEEL CONNECTIONS AT BOTH ENDS OF THE ANODE USING THE WIRING CONNECTER PROVIDED. IF THE ANODE CONNECTION WIRE REQUIRES INSULATION STRIPPING, REMOVE INSULATION TO THE LENGTH SPECIFIED BY THE CONNECTOR. LIFT LEVERS FULLY AND PLACE WIRES INTO THE CONNECTOR, ONE WIRE PER CONNECTION HOLE. FOLD DOWN THE LEVER AND FIRMLY CLICK INTO THE LOCKED POSITION--TEST THE CONNECTION BY LIGHTLY TUGGING EACH WIRE. ENCAPSULATE THE ENTIRE CONNECTION INSIDE OF THE GEL-FILLED INSULATION BOX PROVIDED, CLOSING FIRMLY.

STEP 8: ONCE THE ANODE IS FIRMLY ANCHORED, INSTALL WIRING TRACK COVER STRIPS. STRIPS CAN BE INSTALLED BY SLIDING THEM IN FROM THE END, AND THE CURVED LIP SHOULD BE TOWARD THE OUTER EDGE OF THE ANODE. ALTERNATIVELY, IT CAN BE PLACED ON THE WIRING TRACK AND TAPPED INTO PLACE WITH A RUBBER HAMMER OR Mallet.

STEP 9: END CAPS ARE INSTALLED OVER THE ANODE CONNECTIONS BY EITHER SLIDING OVER THE ENDS OR CLICKING OVER THE TOP. THE CAP SHOULD COVER THE STEEL CONNECTION LOCATION AND THE ANODE-TO-STEEL CONNECTION. THE CAP IS THEN SECURED IN PLACE WITH TWO CONCRETE ANCHORS, TAKING CARE NOT TO INTERFERE WITH THE ANODE OR STEEL CONNECTIONS. THE CAP MAY BE SEALED TO THE CONCRETE SURFACE AND THE ANODE SURFACE WITH CAULKING OR EPOXY.

DRAWING REVISIONS

#	DATE	BY	DESCRIPTION
1	9/11/23	LW	SM-DAS DRAWINGS



GALVASHIELD® SM-DAS ANODE REPAIR LAYOUT AND CONNECTION DETAIL

INSTALLATION INSTRUCTIONS

474B DOVERCOURT DRIVE
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(204) 489-9611
WWW.VECTOR-CORROSION.COM

PROJECT NO.

DRAWING NO.

1 OF 4

DRAWING REVISIONS

#	DATE	BY	DESCRIPTION
1	9/11/23	LW	SM-DAS DRAWINGS



GALVASHIELD® SM-DAS ANODE REPAIR LAYOUT AND CONNECTION DETAIL

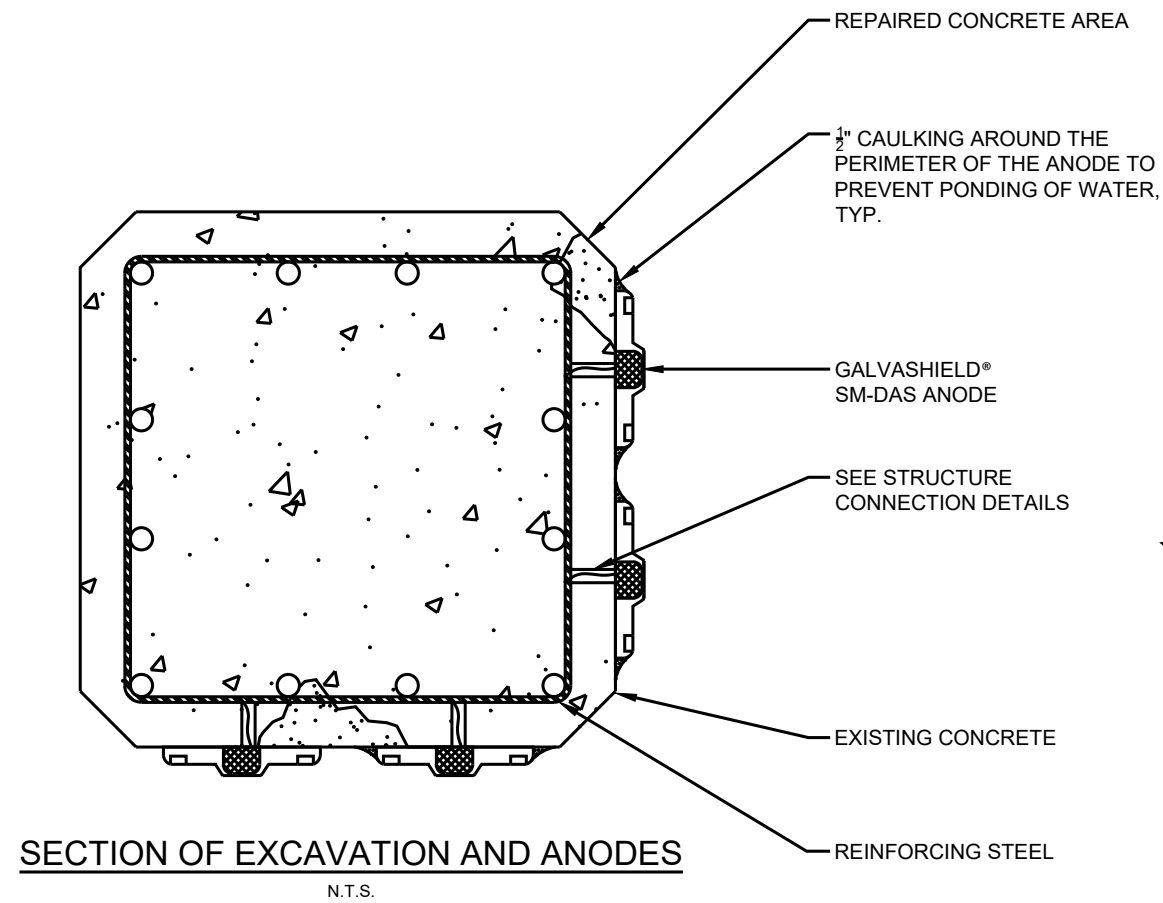
ELEVATION AND SECTION OF TYPICAL COLUMN REPAIR

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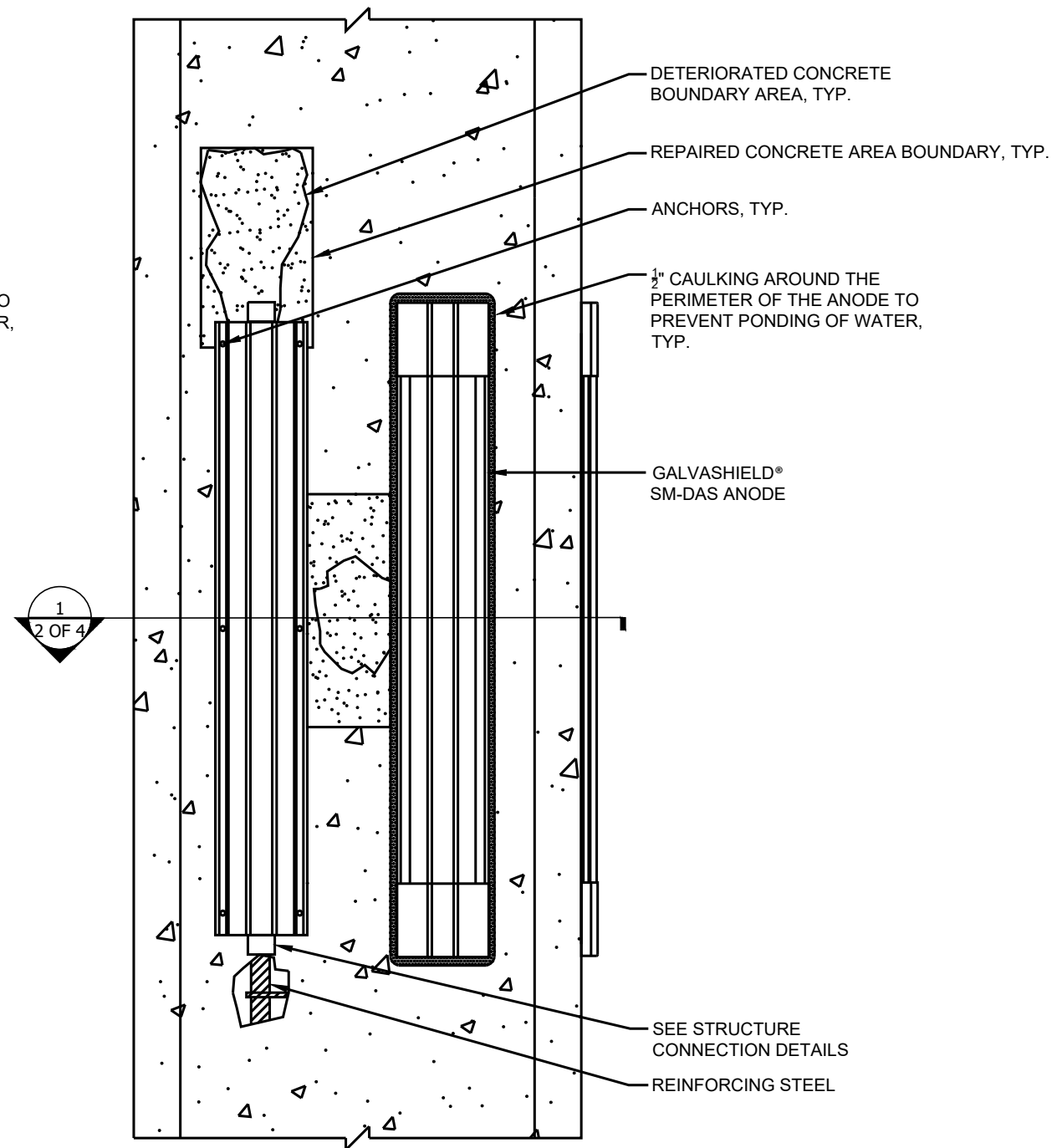
DRAWING NO.

2 OF 4



SECTION OF EXCAVATION AND ANODES

N.T.S.



ELEVATION OF ANODE INSTALLATION

N.T.S.

NOTE:
1. ANODE SPACING IS PER ENGINEER'S SPECIFICATIONS.

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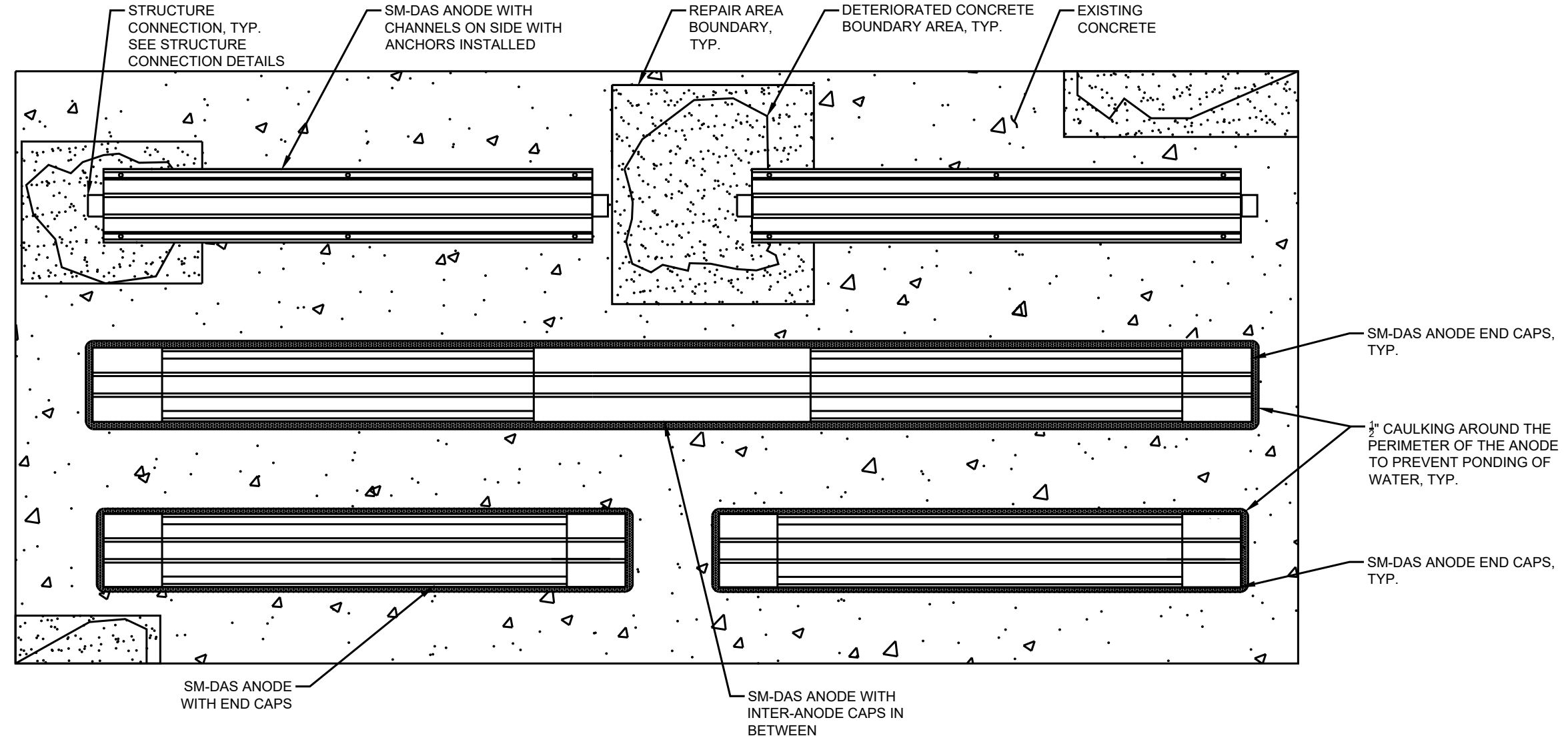
GALVASHIELD® SM-DAS ANODE REPAIR LAYOUT AND CONNECTION DETAIL

PLAN AND SECTION OF TYPICAL SLAB OVERLAY REPAIR

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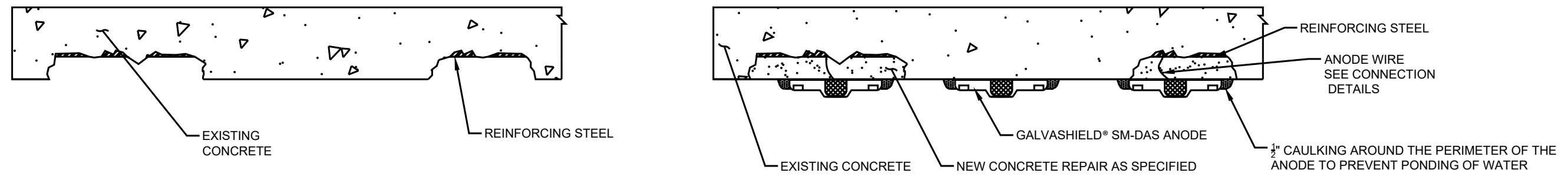
PROJECT NO.

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UNDERSIDE OF SLAB REFLECTED VIEW

N.T.S.



BEFORE REPAIR

AFTER REPAIR

SECTION OF SLAB OVERLAY REPAIR

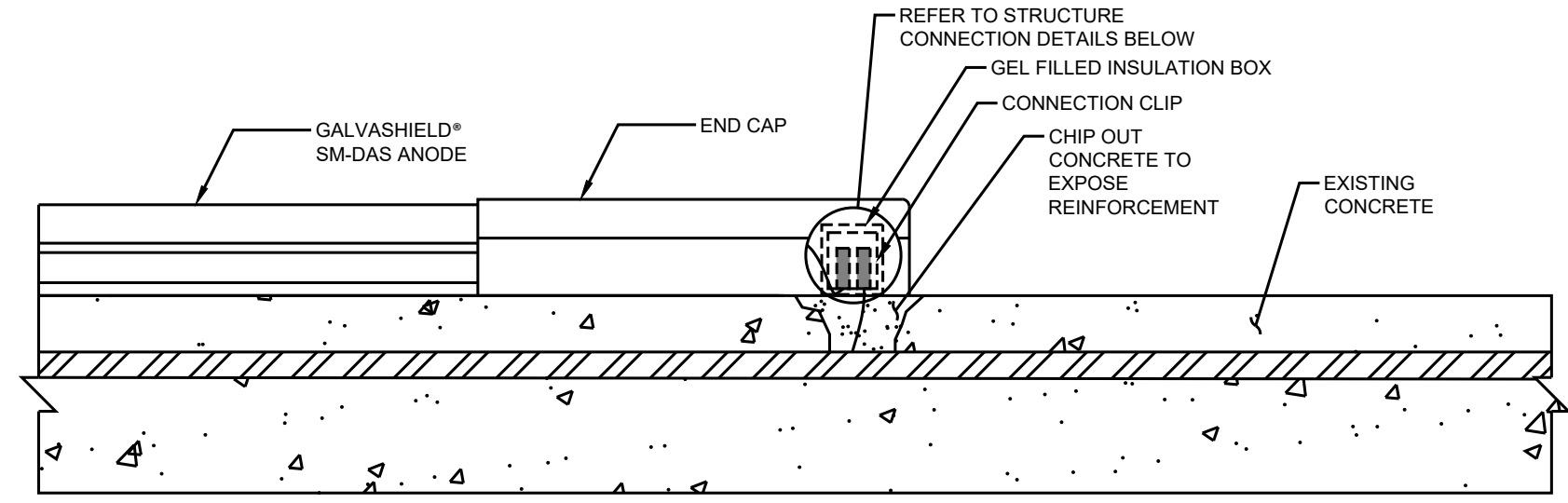
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1. ANODE SPACING IS PER ENGINEER'S SPECIFICATIONS.

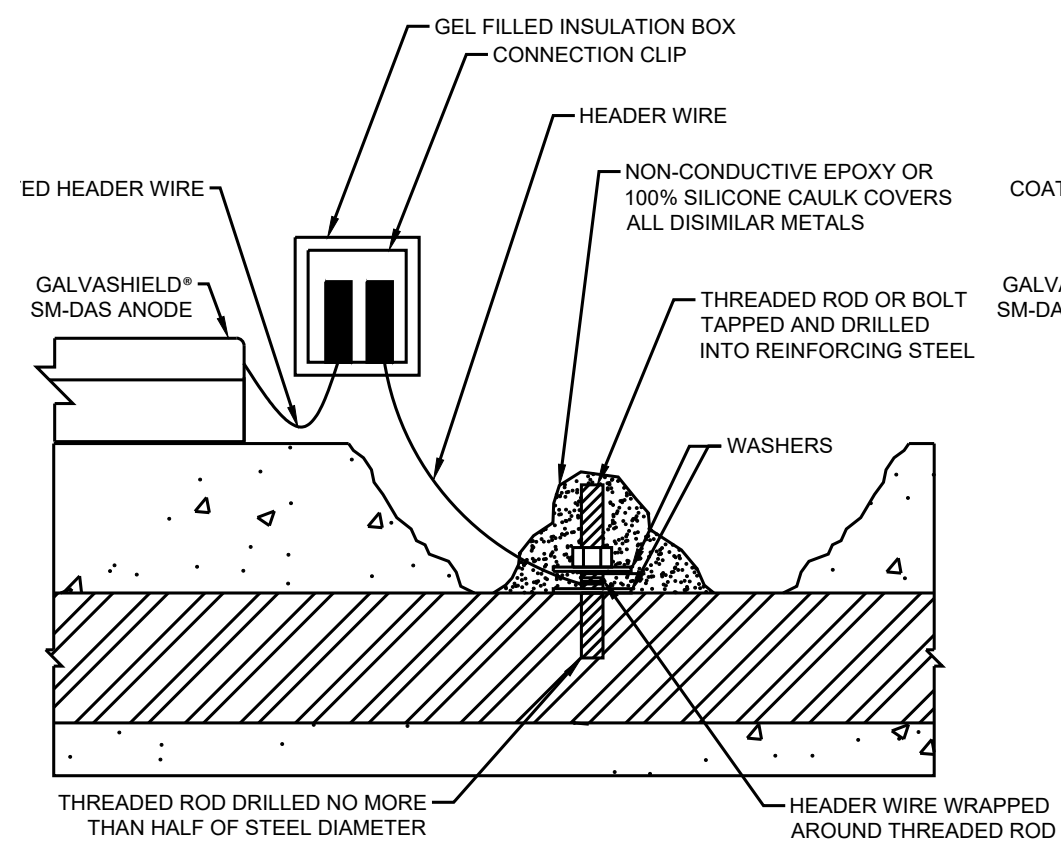
DRAWING REVISIONS			
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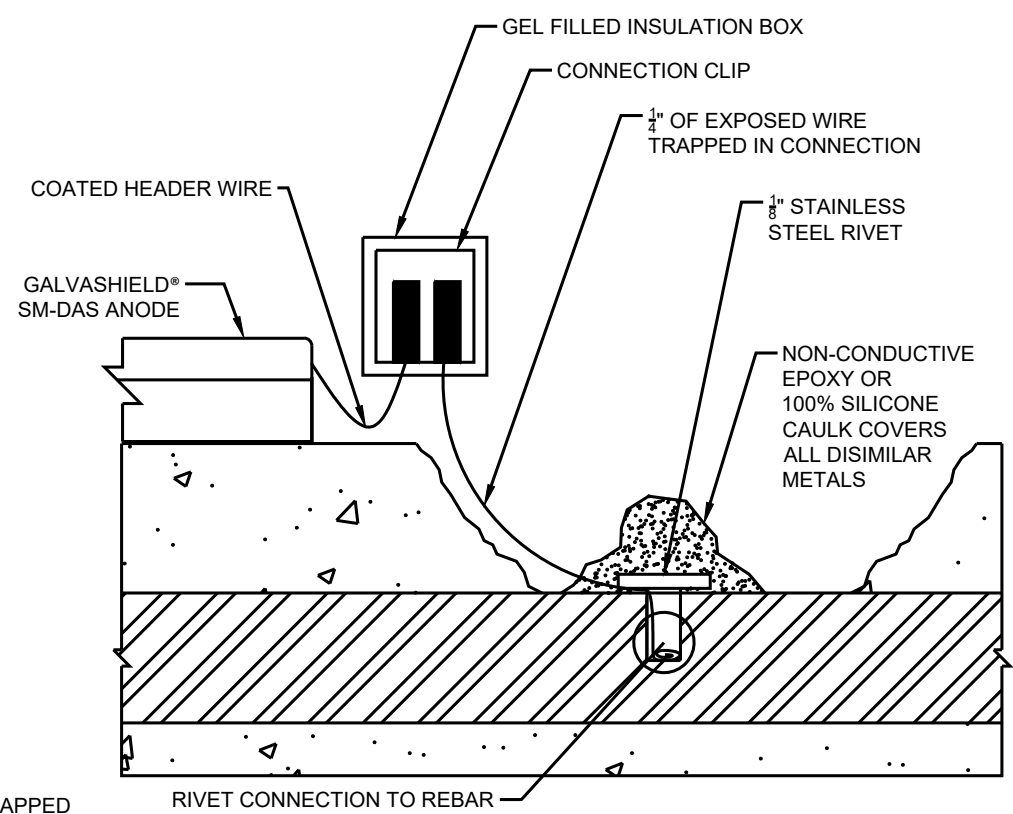
GALVASHIELD® SM-DAS ANODE REPAIR LAYOUT AND CONNECTION DETAIL



TYPICAL ANODE TO STRUCTURE CONNECTION
N.T.S.



NUT AND WASHER CINCH INSTALLATION
N.T.S.



RIVET INSTALLATION
N.T.S.

TYPICAL CONNECTION DETAILS

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