

The scruffy dome is made of galvanised steel and is used in stormwater applications to provide a debris and security screen for manholes.

Design Specifications

- The type 1 debris screen is a full height design, suitable for manholes with a 600mm diameter or larger. (Refer to figure 1)
- The type 2 debris screen has a lower height profile making it less noticeable in areas such as parks and gardens. Suitable for manholes with a diameter of 600 mm or larger. (Refer to figure 2)

Installation

- Dome brackets are bolted to the manhole riser with stainless steel bolts.
- The bolts are purchased separately.

Note: The North Island and South Island have different versions of Scruffy Domes with small changes in the bracket design (See photos below). Please contact your local Hynds branch for more information.

North Island Scruffy Dome



South Island Scruffy Dome



Product Code	Manhole (mm)	Type	Riser ID (mm)	A = OD of Grille (mm)	B = Diameter of Inner Ring (mm)	C = Height of Dome (mm)	D = Leg Length (mm)
Type 1 High Profile							
MHD0600S	600	1	610	640	145	300	190
MHD0675S	675	1	686	715	145	300	190
MHD0900S	900	1	914	950	230	500	190
MHD1050S	1050	1	1066	1125	230	665	190
MHD1050S-H*	1050	1	1066	1125	230	665	190
MHD1200S	1200	1	1207	1270	230	635	190
MHD1200S-H*	1200	1	1207	1270	230	635	190
MHD1400S	1400	1	1372	1430	230	715	190
MHD1500S	1500	1	1524	1580	230	790	190
MHD1650S	1650	1	1676	1740	230	870	190
MHD1800S	1800	1	1829	1900	230	950	190
Type 2 Low Profile							
MHD0600S2	600	2	610	640	145	150	190
MHD0675S2	675	2	686	715	145	150	190
MHD0900S2	900	2	914	950	230	170	190
MHD1050S2	1050	2	1066	1125	230	200	190
MHD1050S2HL*	1050	2	1066	1125	230	200	190
MHD1200S2	1200	2	1207	1270	230	360	190
MHD1200S2HL*	1200	2	1207	1270	230	360	190
MHD1400S2	1400	2	1372	1430	230	390	190
MHD1500S2	1500	2	1524	1580	230	435	190
MHD1650S2	1650	2	1676	1740	230	480	190
MHD1800S2	1800	2	1829	1900	230	520	190

Note: Larger sizes 2000, 2300, 2550, 3000mm are available on request
**H - hinged HL - hinged and lockable*

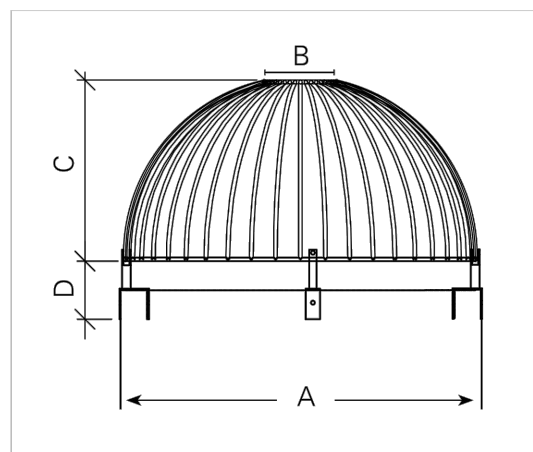


FIG. 1 Dimensions of Type 1 Hynds Scruffy Dome (see table).

Note: Brackets shown here are not supplied. Please see the North Island and South Island Scruffy Domes photos.

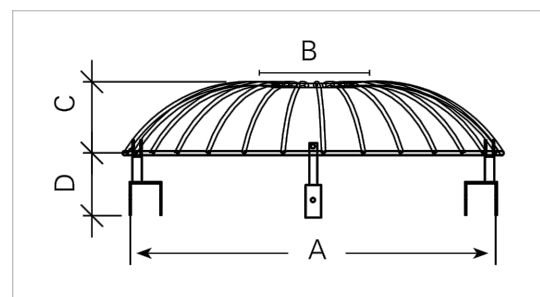
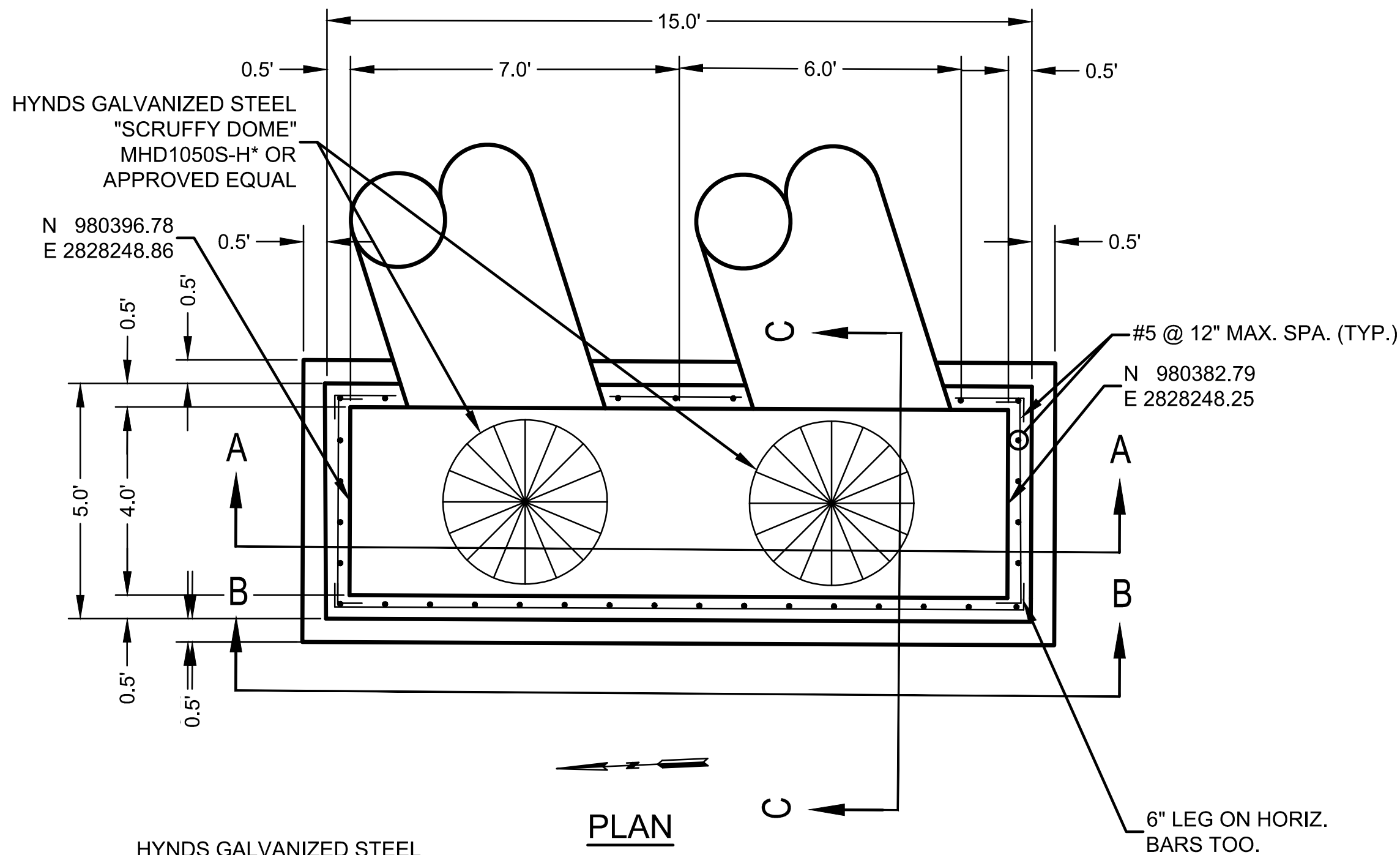


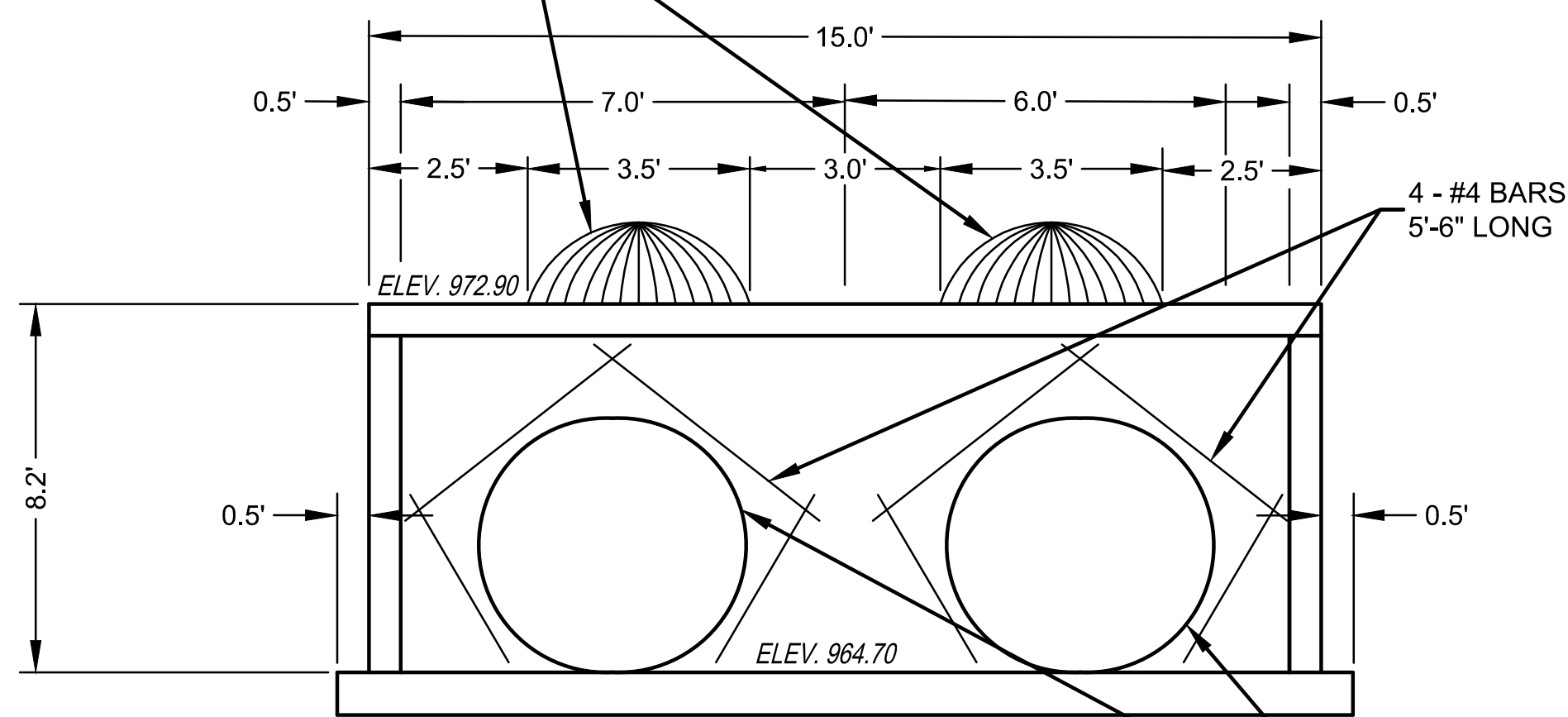
FIG. 2 Dimensions of Type 2 Hynds Scruffy Dome (see table).

Note: Brackets shown here are not supplied. Please see the North Island and South Island Scruffy Domes photos.

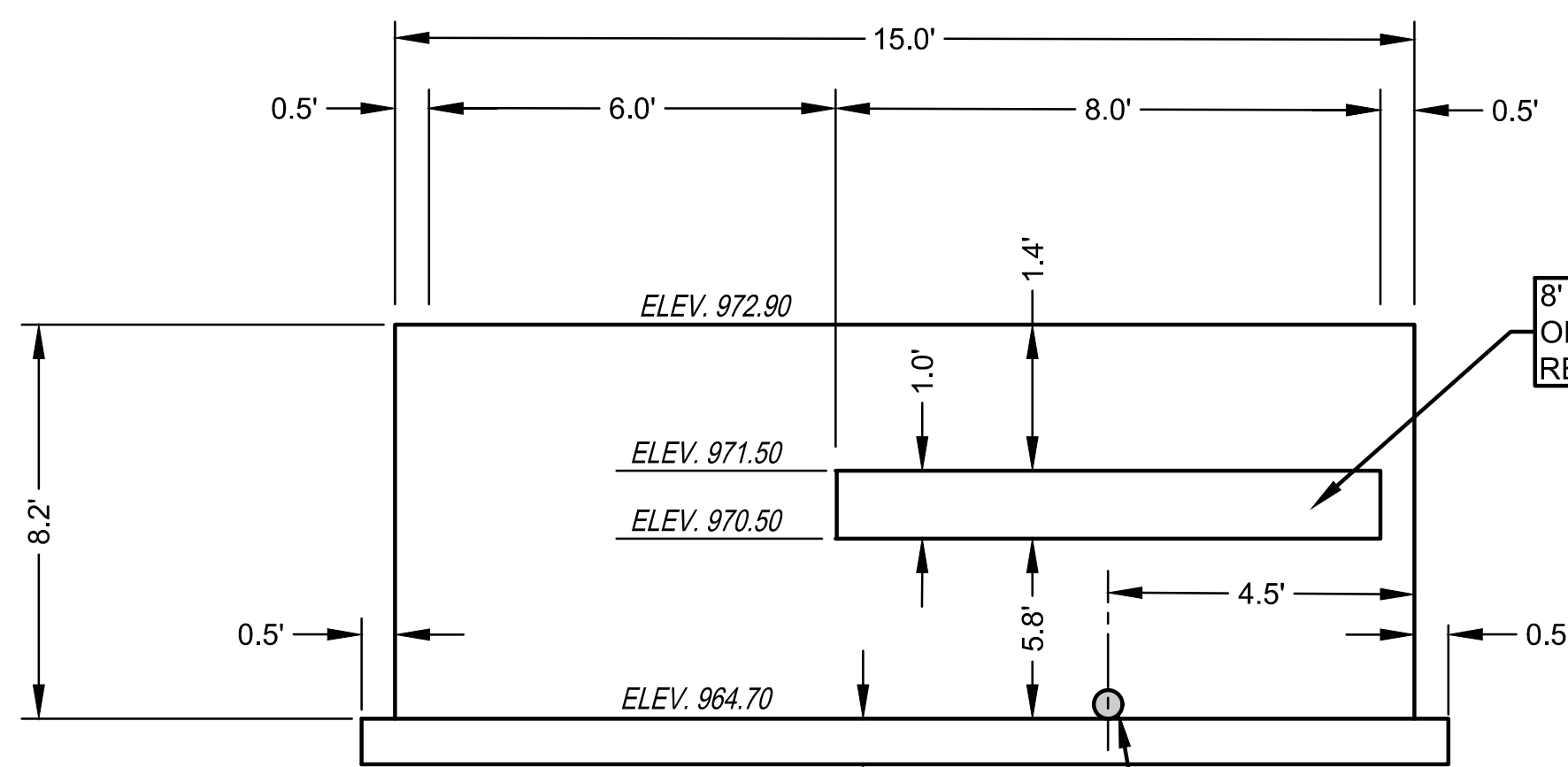


HYNDS GALVANIZED STEEL "SCRUFFY DOME" MHD1050S-H* OR APPROVED EQUAL

PLAN

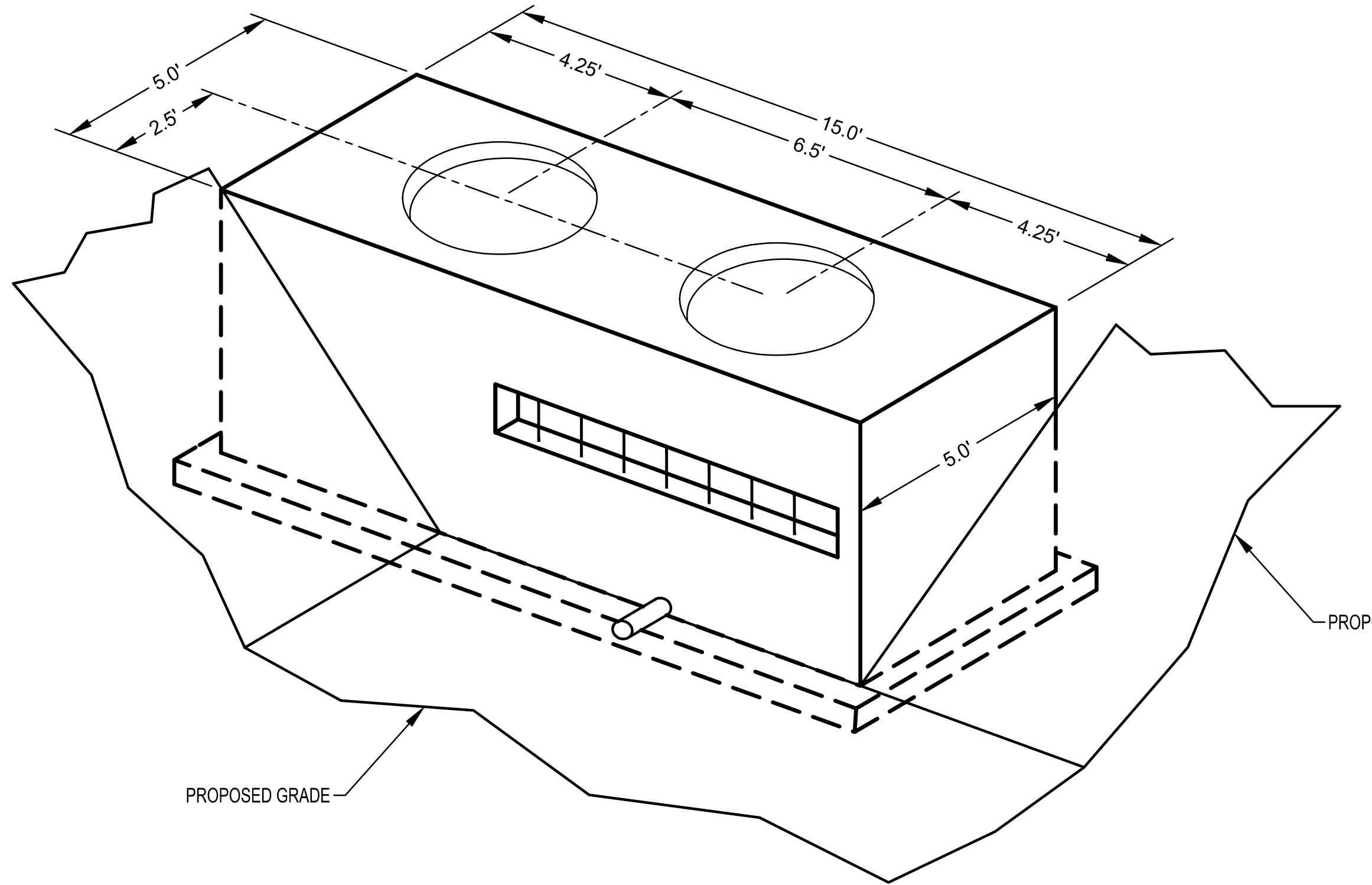


SECTION A-A



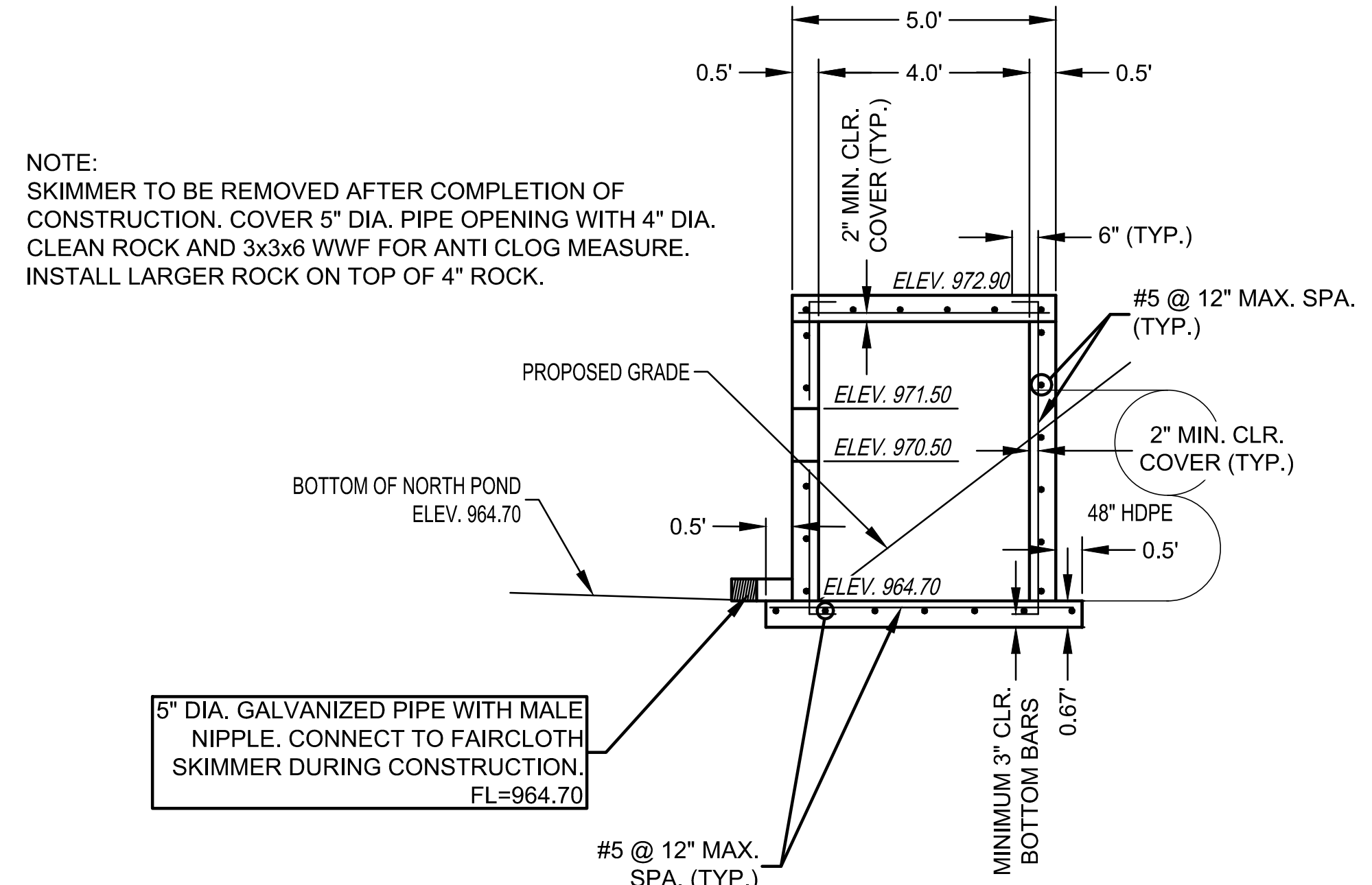
SECTION B-B

- NOTE:
- REINFORCING STEEL FOR ALL WALLS, TOP AND BOTTOM SLABS WILL BE NO. 5 BARS WITH MAXIMUM SPACING OF 12" IN BOTH VERTICAL AND HORIZONTAL DIRECTIONS. BOTTOM SLAB IS 8" THICK. ALL OTHER WALLS AND TOP SLAB ARE 6" THICK. CONCRETE STRENGTH = 4 KSI. REINFORCING STEEL SHALL BE GRADE 60. TYPICAL MINIMUM CONCRETE COVER IS 2", EXCEPT 3" CLEAR COVER IS REQUIRED FOR BARS FROM THE BOTTOM OF THE BOTTOM SLAB. TOP COVER IN THE BOTTOM SLAB IS 1 1/2".
 - REINFORCING STEEL EXPOSED AT THE INLET OPENING LOCATIONS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.

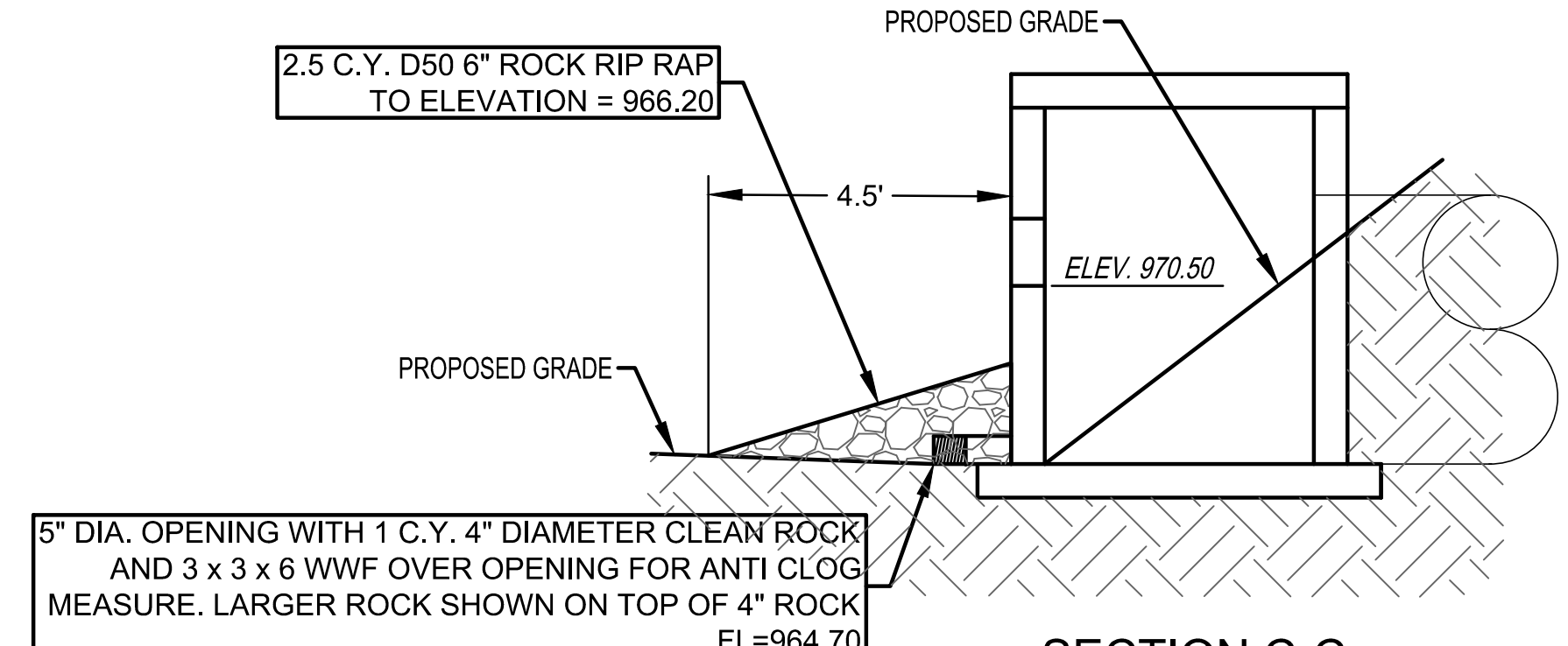


ISOMETRIC VIEW

- NOTE:
- SKIMMER TO BE REMOVED AFTER COMPLETION OF CONSTRUCTION. COVER 5" DIA. PIPE OPENING WITH 4" DIA. CLEAN ROCK AND 3x3x6 WWF FOR ANTI CLOG MEASURE. INSTALL LARGER ROCK ON TOP OF 4" ROCK.



SECTION C-C



SECTION C-C
POST CONSTRUCTION

DETENTION OUTLET STRUCTURE
NOT TO SCALE

NO.	BY	DATE	REVISION
6	SPW	07/20/19	PER CITY'S COMMENTS
5	SPW	07/20/19	PER CITY'S COMMENTS
4	SPW	04/23/19	PER CITY'S COMMENTS
3	SPW	04/16/19	PER CITY'S COMMENTS
2	SPW	03/27/19	PER CITY'S COMMENTS
1	SPW	03/06/19	PER CITY'S COMMENTS
		11/21/18	SUBMITTAL TO CITY OF LEES SUMMIT



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Inc
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11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE NO. E201000573 (MO.) / E-736 (KS.)

STREET AND STORM SEWER PLANS
NORTH DETENTION BASIN
OUTLET STRUCTURE
COBEY CREEK FIRST PLAT
PHASE I
CITY OF LEES SUMMIT, JACKSON COUNTY, MISSOURI

X-REF NO.	16-059 Base Phase I
DRAWING NO.	16-059 Phase I Street Plans
DATE	July 21, 2020
SHEET NO.	16-059

43A SHEET OF 53