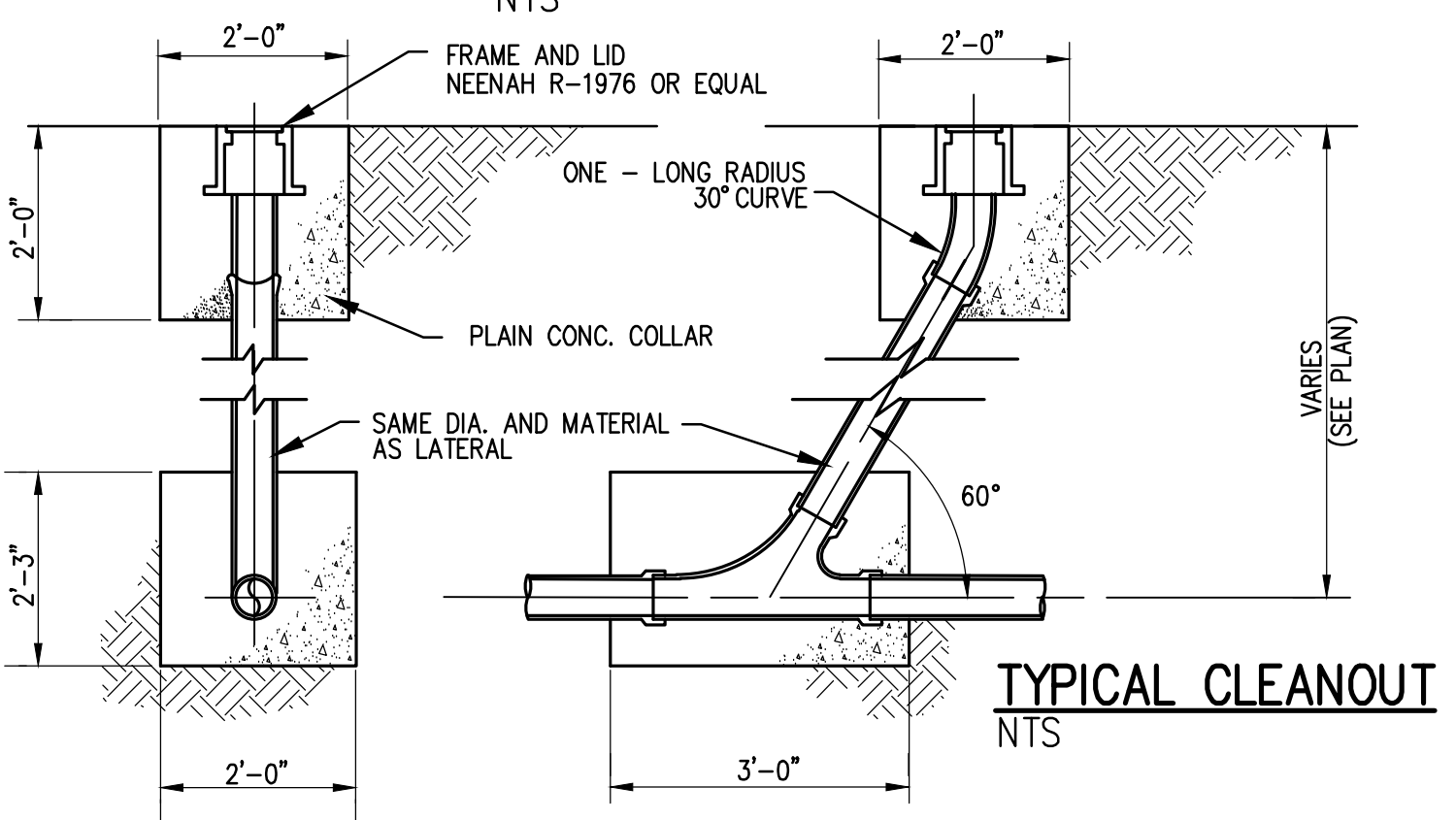
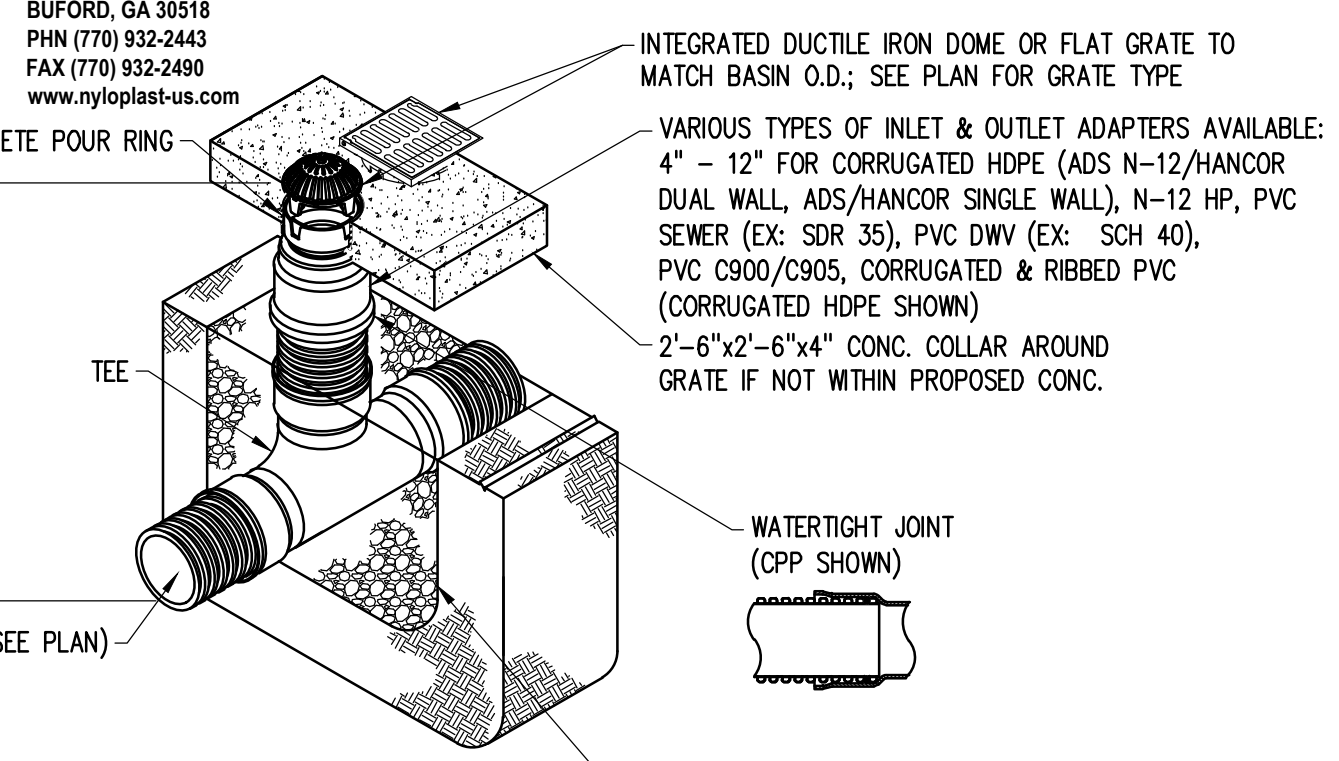


TRENCH/PIPE BEDDING FOR SEWER SANITARY SEWER MAINS
NTS

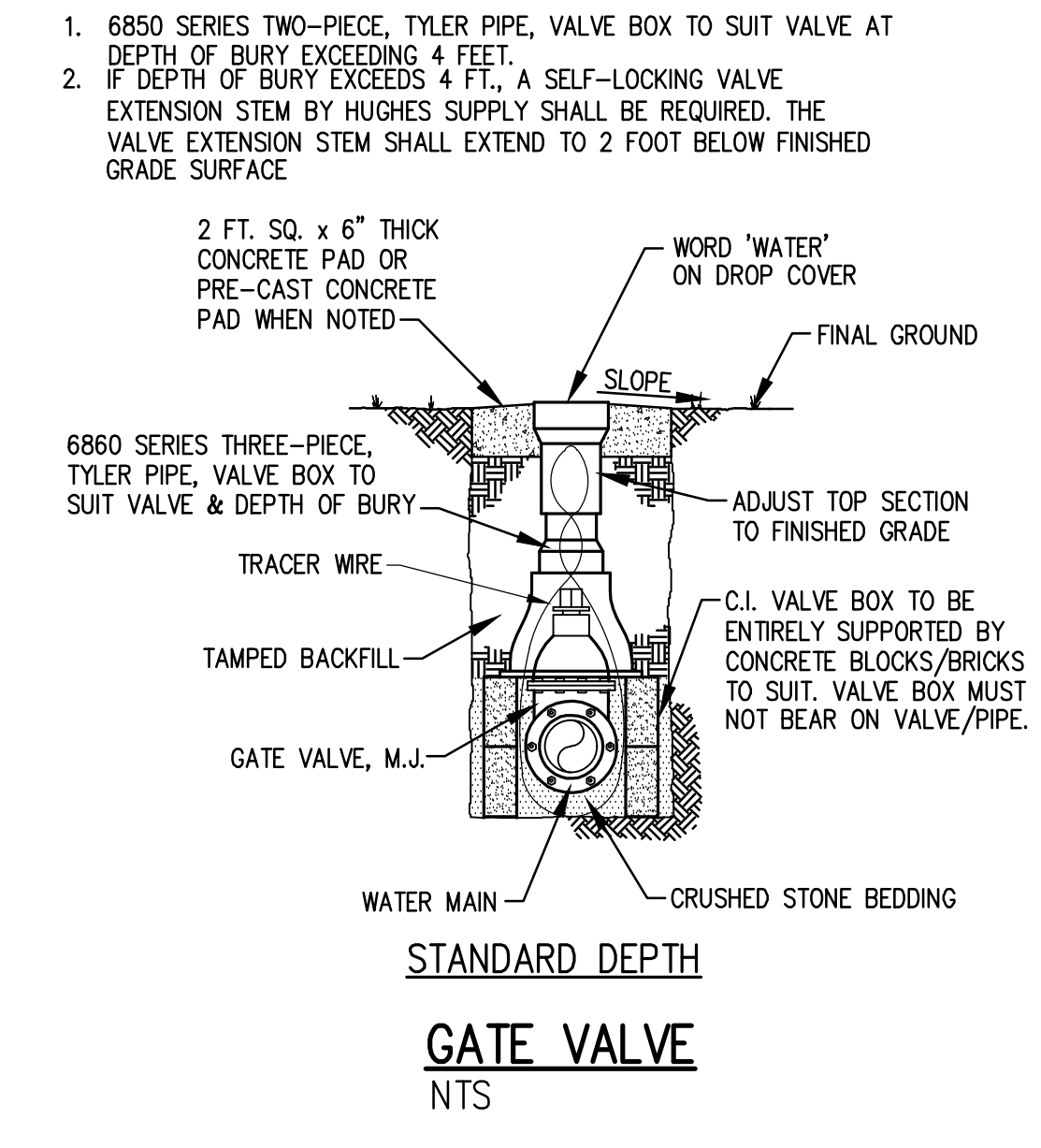


TYPICAL CLEANOUT
NTS



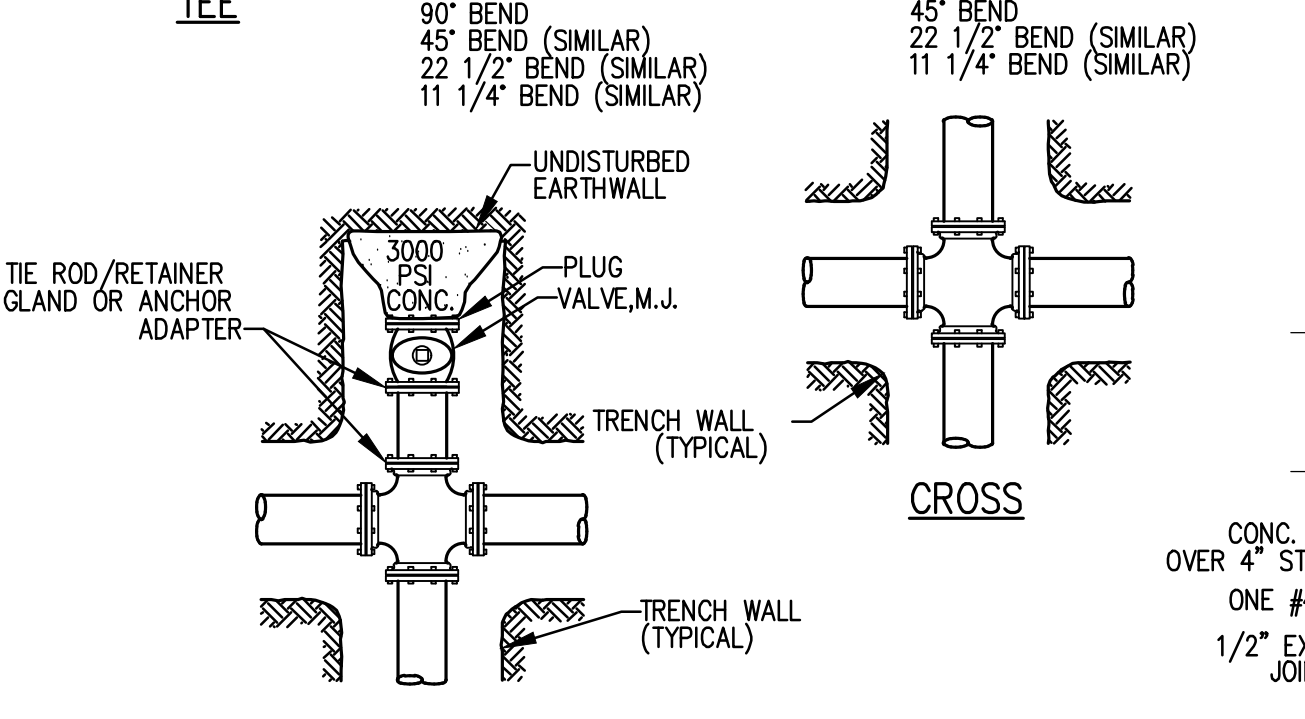
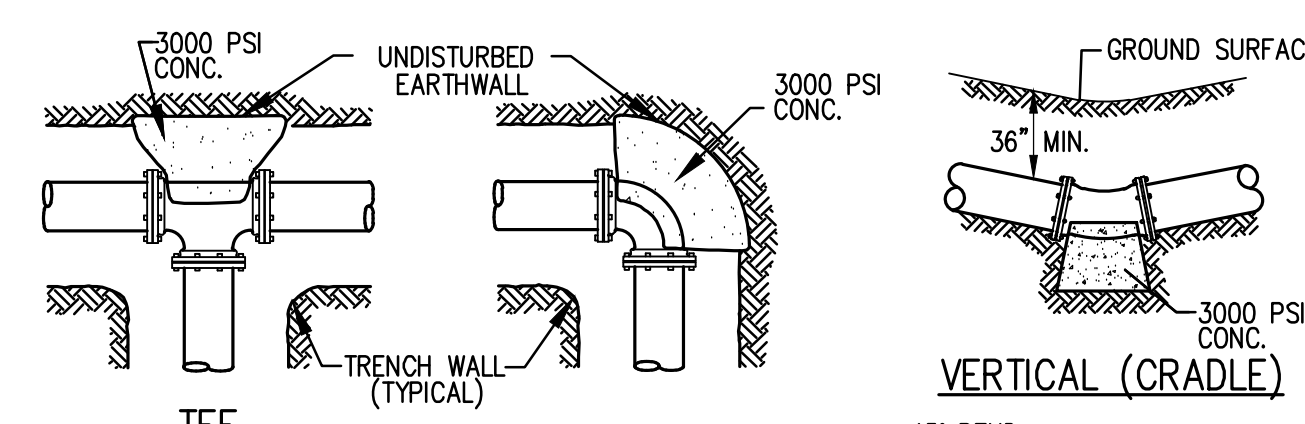
- NOTES ON DRAIN
- GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 - DRAIN TO BE NYLOPLAST 2712AG OR APPROVED EQUAL WITH 12" RISER PIPE.
 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), & PVC SEWER.

12" DRAIN DETAIL
SCALE: NTS



STANDARD DEPTH GATE VALVE
NTS

- NOTES:
- ALL FITTINGS SHALL BE MECHANICAL JOINT WITH RETAINER GLANDS.
 - DO NOT COVER BELLS OR FLANGES WITH CONCRETE.
 - WRAP ALL FITTINGS WITH MSQUEEEN.
 - BACK ALL TEES ACCORDING TO SIZE OF BRANCH.
 - BACKING FUTURE LINE EXTENSIONS SHALL BE SUCH THAT LATER REMOVAL IS POSSIBLE.
 - ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL AND VERTICAL, SHALL BE ANCHORED BY THRUST BLOCKING.
 - REACTION BACKING TABLE IS BASED ON 200 P.S.I. + WATER HAMMER (50% MINIMUM AND SOIL BEARING PRESSURE OF 2,000 LB./SQ. FT. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS DIRECTED BY ENGINEER.



REACTION BACKING TABLE

REQUIRED SQ. FT. OF UNDISTURBED EARTH WALL FOR REACTION BACKING

SIZE	TYPE OF FITTINGS				
	TEE OR PLUG/CAP	90°	45°	22 1/2°	11 1/4°
2"	1	1	1	1	1
3"	1	1	1	1	1
4"	2	2	1	1	1
6"	3	3	2	1	1
8"	4	4	3	2	2
12"	10	10	5	3	2
20"	26	26	14	7	4
24"	38	38	20	10	7
30"	59	59	32	16	10

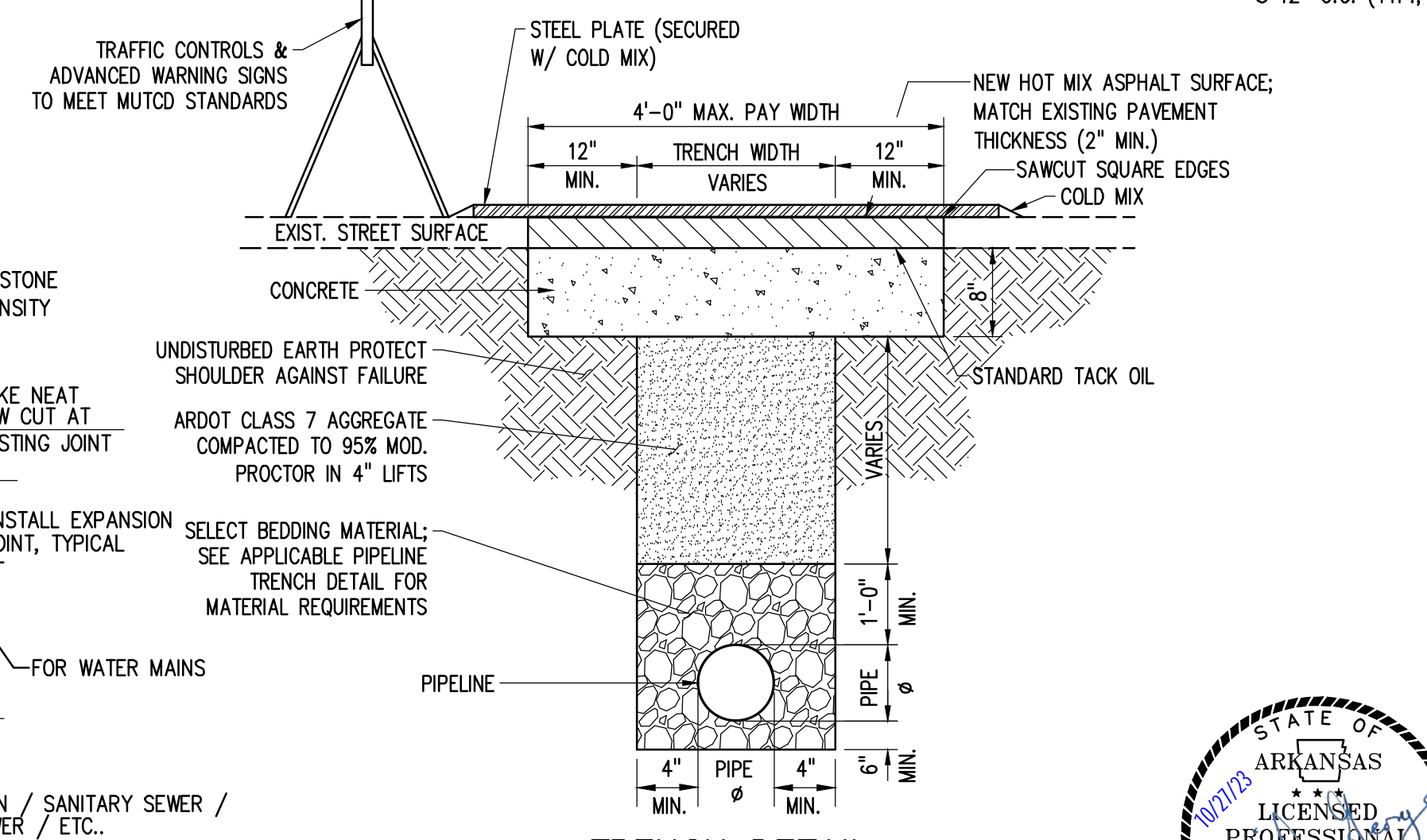
THRUST BLOCKING
NTS

SEE SITE PLAN FOR DIMENSIONS AND LIMITS OF RIP-RAP.

PERMANENT RIP-RAP SHALL BE GROUTED AS SPECIFIED.

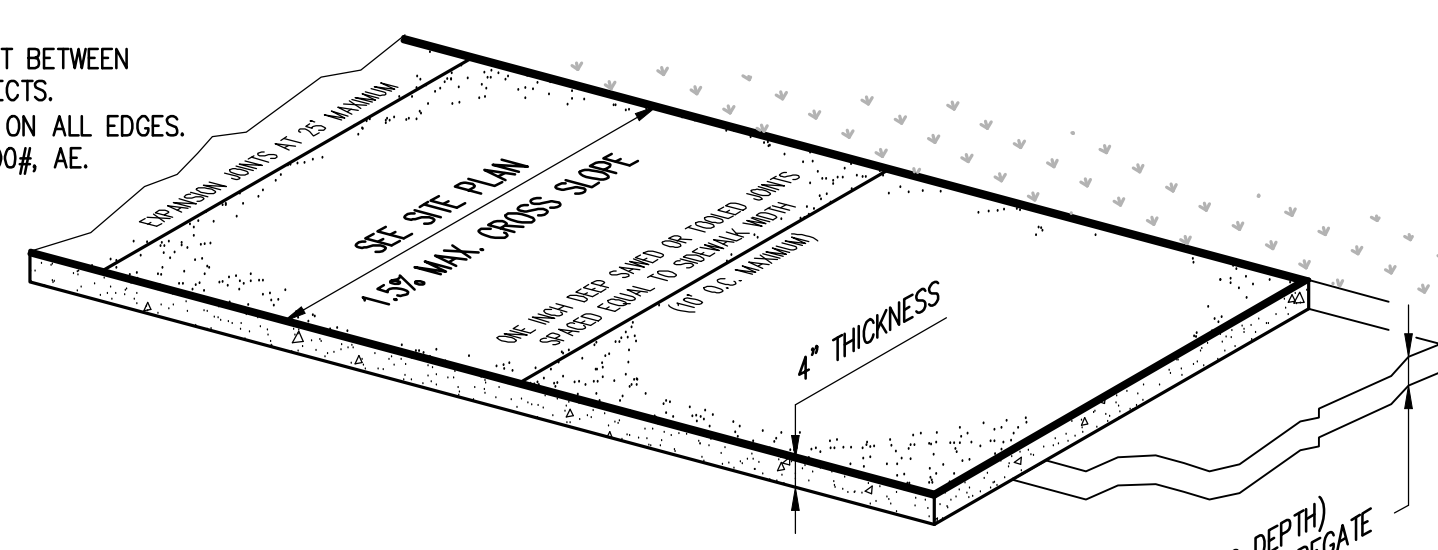
STONES SHALL CONSIST OF FIELD STONE OR ROUGH, UNHEWN QUARRY STONE AS NEARLY UNIFORM IN SIZE AS PRACTICAL. STONES SHALL BE DENSE, RESISTANT TO THE ACTION OF WIND AND WATER, AND SUITABLE IN ALL ASPECTS FOR THE INTENDED USE. ALL STONES SHALL WEIGH BETWEEN 50-150 POUNDS EACH AND AT LEAST 60% OF THE STONES SHALL WEIGH MORE THAN 100 POUNDS EACH.

RIP-RAP SLOPE PROTECTION
NTS

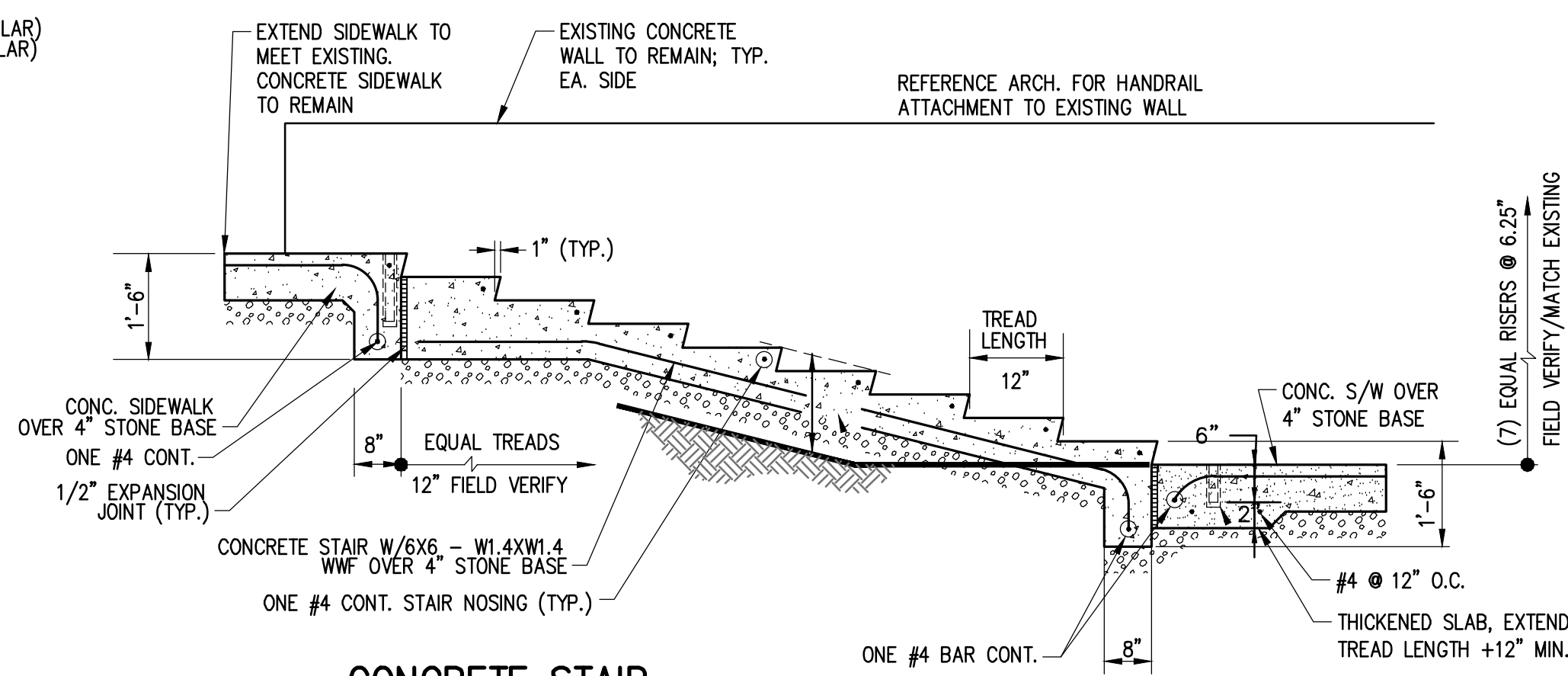


TRENCH DETAIL UNDER EXISTING PAVED AREAS
SCALE: N.T.S.

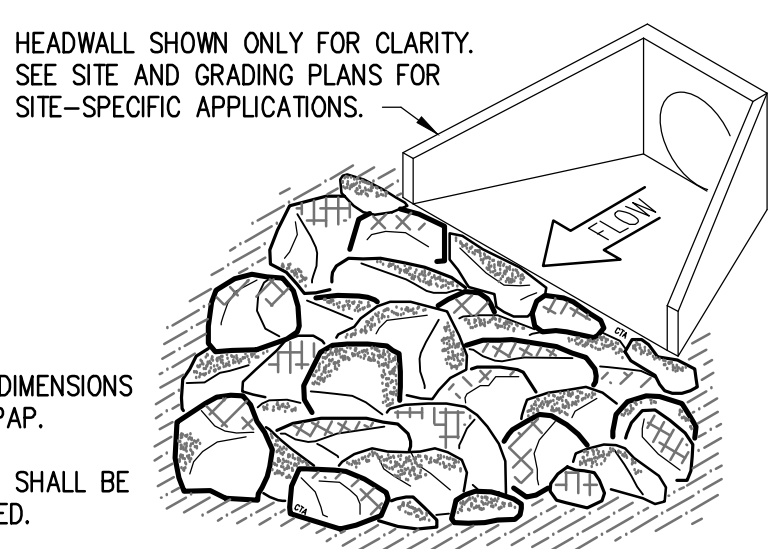
- NOTES:
- PROVIDE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND ALL FIXED OBJECTS.
 - PROVIDE 1/2" TOOLED RADIUS ON ALL EDGES.
 - CONCRETE TO BE MINIMUM 3500# A/E.



PRIVATE SIDEWALK WITH NO CURB
NTS



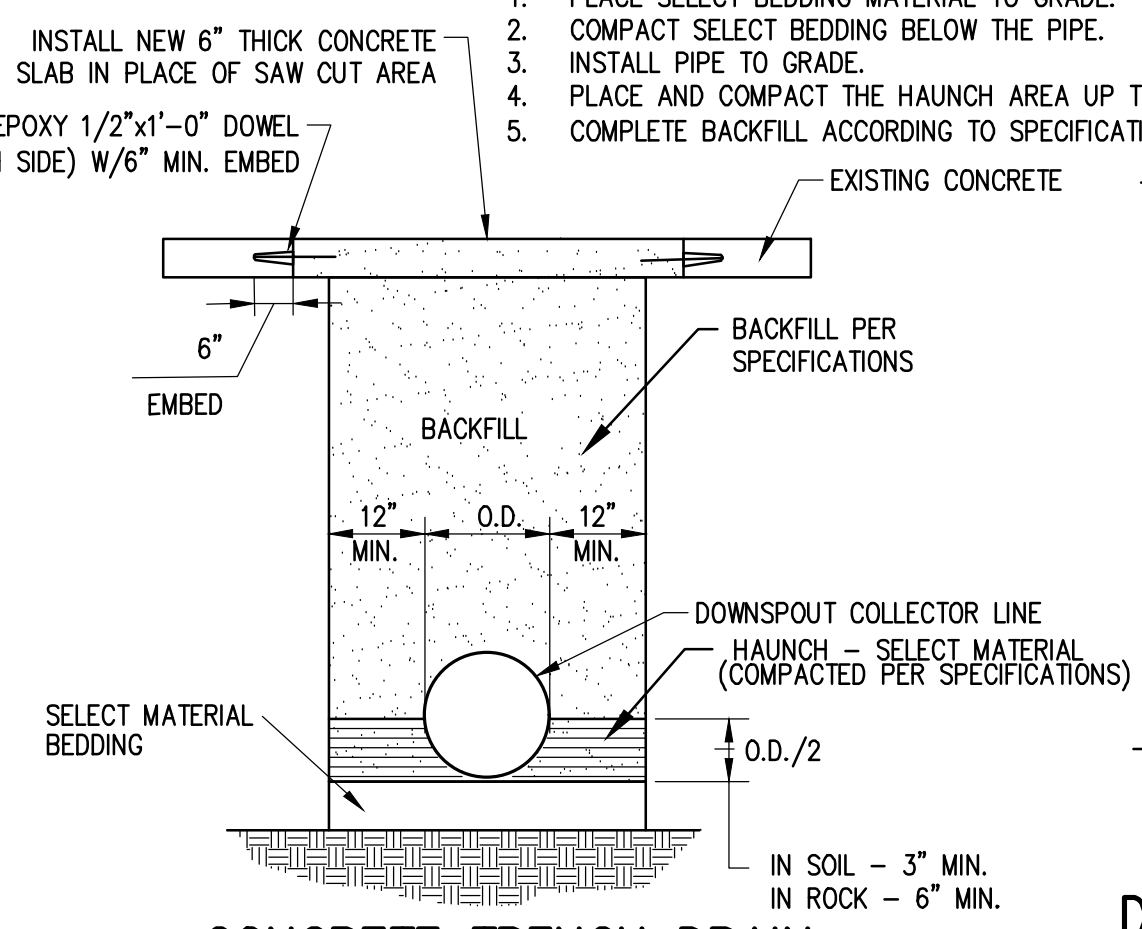
CONCRETE STAIR
NTS NOTE: REFER TO SITE AND GRADING PLANS FOR STAIR LENGTH, RISE AND LOCATION



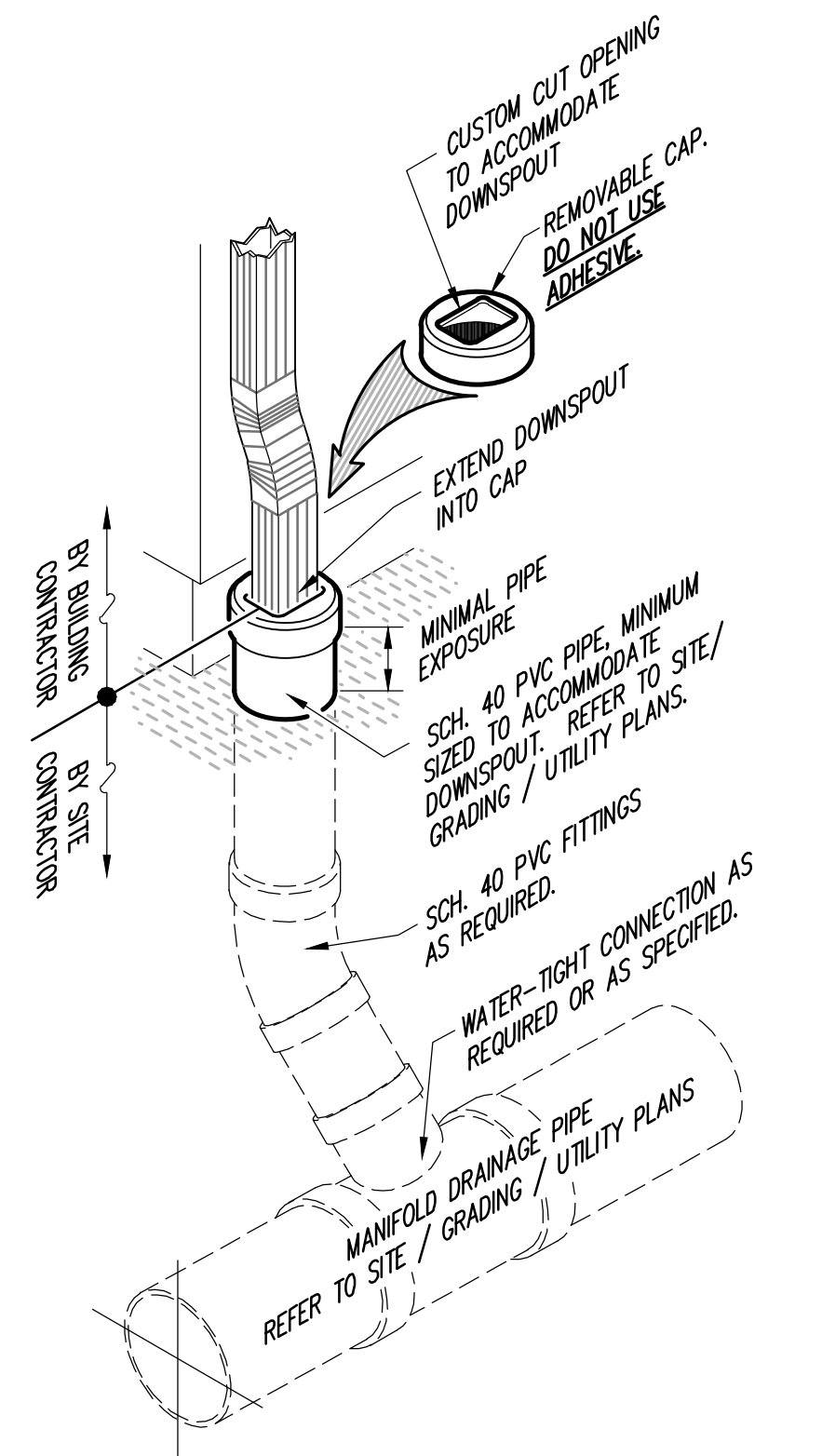
- NOTES:
- UNDER PAVEMENT, BACKFILL ENTIRE EXCAVATION WITH ARDOT CLASS 7 AGGREGATE BASE COURSE (OR APPROVED EQUAL) COMPACTED IN 8" LIFTS TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.

CONSTRUCTION SEQUENCE

- PLACE SELECT BEDDING MATERIAL TO GRADE.
- COMPACT SELECT BEDDING BELOW THE PIPE.
- INSTALL PIPE TO GRADE.
- PLACE AND COMPACT THE HAUNCH AREA UP TO THE MIDDLE OF THE PIPE.
- COMPLETE BACKFILL ACCORDING TO SPECIFICATIONS.

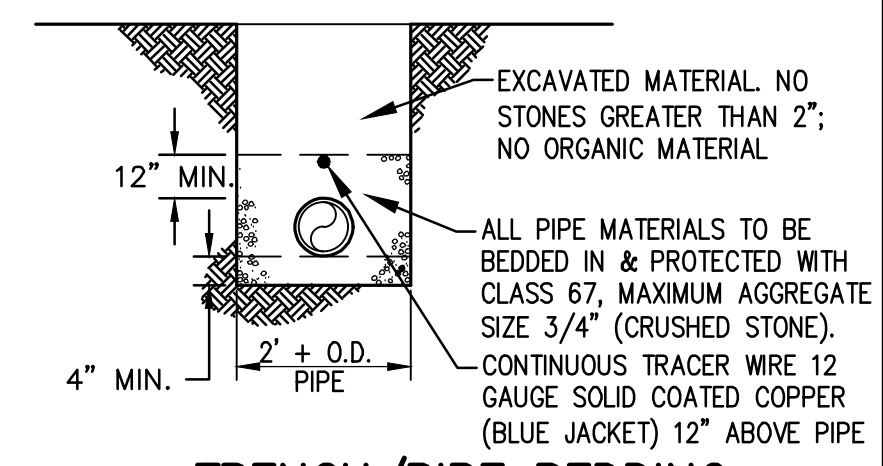


CONCRETE TRENCH DRAIN
NTS

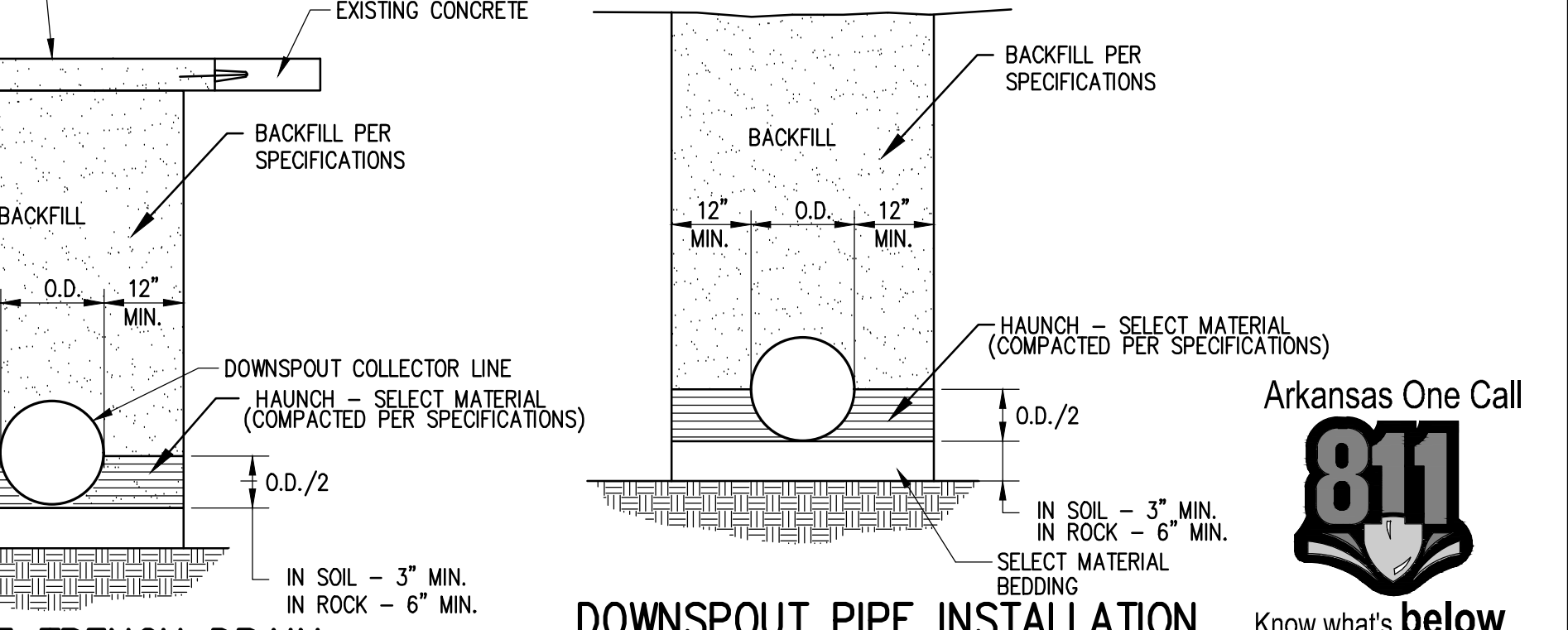


EXTERIOR DOWNSPOUT COLLECTOR
NTS

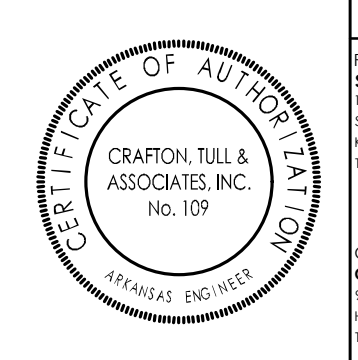
- NOTES:
- FILL ENTIRE DEPTH WITH CLASS 7 CRUSHED STONE IN ROADWAYS OR AREAS TO BE PAVED. REFER TO CONCRETE CROSSING REPAIR.



TRENCH/PIPE BEDDING FOR WATER MAINS
NTS



DOWNSPOUT PIPE INSTALLATION
NTS



A/E FIRMS	DESIGNED:	SUB SHEET NO.
PRIME/ARCH: STRATA ARCHITECTURE	MB	02
FOR CADD: STRATA ARCHITECTURE	CADD:	C5.1
DATE: 10.27.2023	TECH. REVIEW:	
	MB	

02 C5.1

TITLE OF SHEET
LIBBEY BATHHOUSE

DETAILS SHT. 1

REHABILITATE BATHHOUSES
HOT SPRINGS NATIONAL PARK

DRAWING NO.	128
	182951
PMIS/PKG NO.	318915
SHEET	200 OF 286

