

BID SET

Issued: JANUARY 14, 2025

THE MARYLAND ZOO IN BALTIMORE

RED PANDA

The Maryland Zoo in Baltimore
 1 Safari Place
 Baltimore, MD 21217

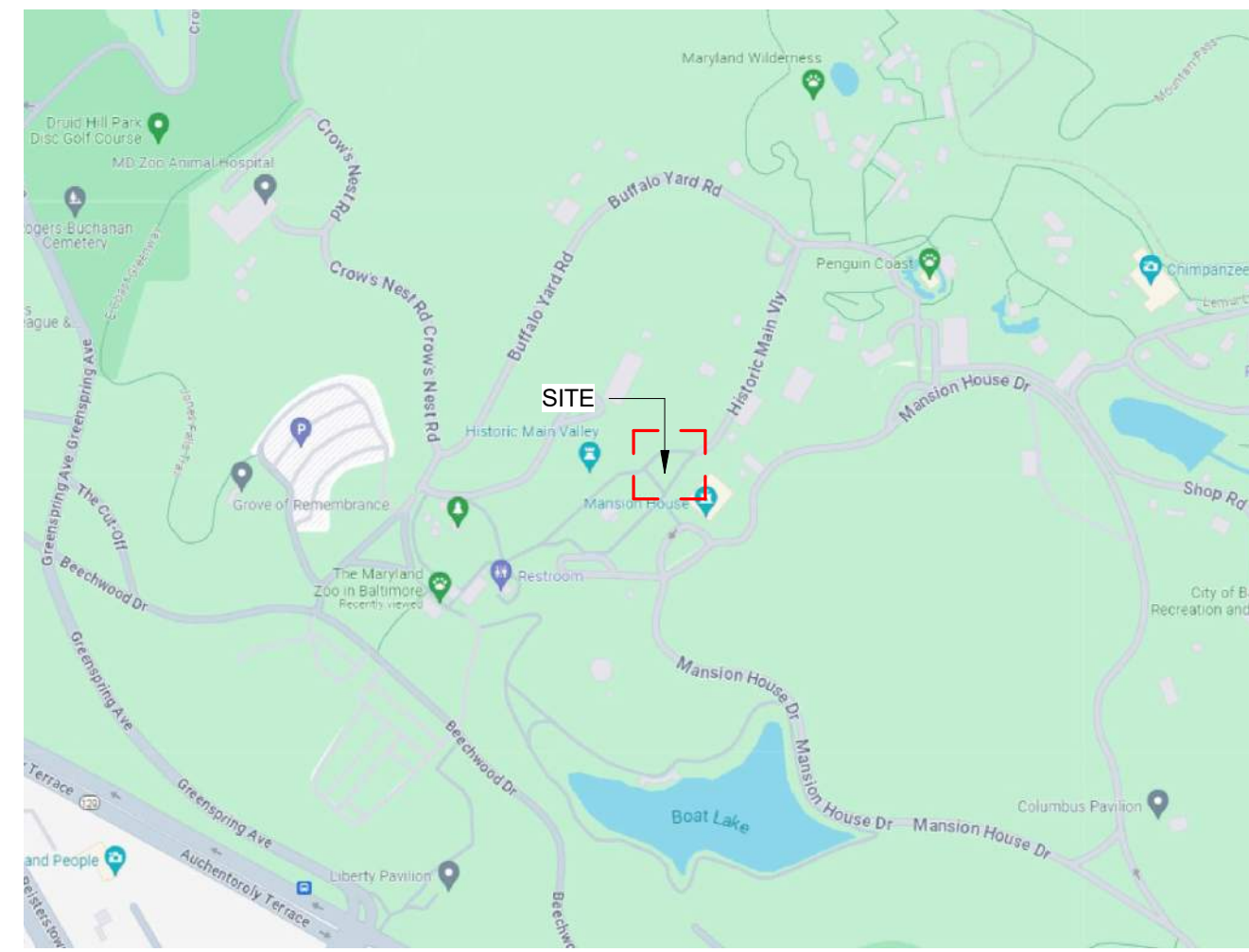
Carroll Engineering, Inc.
 Civil Engineers
 215 Schilling Circle, STE 102
 Hunt Valley, MD 21031
 T: 410.785.7423

Robinson Anderson Summers
 Landscape Architect
 28 West State Street
 Media, PA 19063
 T: 302.888.1544

Buell Kratzer Powell, P.C.
 Architect
 1525 Locust Street, 5th Floor
 Philadelphia, PA 19102
 T: 215.557.6509

Structural Design Studio, Inc.
 Structural Engineer
 2225 East Murray Holladay Rd
 Salt Lake City, UT 84117
 T: 801.274.3950

Kovacs, Whitney, & Associates
 MEP Engineer
 190 West Ostend St, STE 300
 Baltimore, MD
 T: 410.244.7191



APPLICABLE CODES

- 2019 Maryland Building Performance Standards;
- 2018 International Building Code, MD Edition;
- 2021 International Existing Building Code;
- 2017 National Electrical Code (NFPA 70);
- 2018 International Fuel Gas Code;
- 2018 Life Safety Code (NFPA 101);
- 2018 International Plumbing Code;
- 2018 International Mechanical Code;
- 2018 International Property Maintenance Code;
- 2018 International Fire Code;
- 2018 International Energy Conservation Code, MD Edition;
- 2018 International Green Construction Code;
- 2020 Baltimore City Building, Fire & Related Codes;
- 2012 Maryland Accessibility Code;
- 2010 ADA Standards for Accessible Design by Department of Justice;
- ICC/ANSI A117.1-2009;
- Baltimore City Building, Fire, and Related Codes (BCBFC 2024 Edition)**

DRAWING SHEET LIST		
SHEET NO.	SHEET NAME	PERMIT SET BID SET
GENERAL		
G001	COVER SHEET	••
G002	ABBREVIATIONS & SYMBOLS	••
G003	CODE REVIEW	••
G110	SITE SURVEY	••
G111	SITE ACCESS PLAN	••
CIVIL		
C100	EXISTING CONDITIONS PLAN	••
C101	EXISTING CONDITION UTILITY PLAN	••
C110	BORING PLAN	••
C111	BORING LOGS	••
C120	DEMOLITION PLAN	••
C200	PROPOSED CONDITIONS PLAN	••
C210	PROPOSED GRADING PLAN	••
C300	DETAIL REFERENCE PLAN	••
C310	SITE DETAILS	••
C311	SITE DETAILS	••
C400	PROPOSED UTILITY PLAN	••
C410	UTILITY PROFILES	••
C411	UTILITY PROFILES	••
C412	UTILITY PROFILES	••
C420	UTILITY DETAILS	••
C421	UTILITY DETAILS	••
C500	STORM DRAIN KEY PLAN	••
C510	STORM DRAIN SCHEDULES	••
C520	STORM DRAIN DETAILS	••
C521	STORM DRAIN DETAILS	••
C522	STORM DRAIN DETAILS	••
C523	STORM DRAIN DETAILS	••
C524	STORM DRAIN DETAILS	••
C525	STORM DRAIN DETAILS	••
C530	STORM DRAIN PROFILES	••
C531	STORM DRAIN PROFILES	••
C532	STORM DRAIN PROFILES	••
C533	STORM DRAIN PROFILES	••
C600	STORMWATER MANAGEMENT PLAN	••
C610	MWS-1A SECTIONS	••

DRAWING SHEET LIST		
SHEET NO.	SHEET NAME	PERMIT SET BID SET
GENERAL		
C611	DP-1 SECTIONS	••
C620	SWM DETAILS	••
C700	ESC COVER SHEET	••
C701	ESC PLAN	••
C710	ESC DETAILS	••
C720	ESC NOTES	••
C721	ESC NOTES	••
C722	ESC NOTES	••
C800	RETAINING WALL PLAN & PROFILE	••
DRAINAGE		
DA-1	DRAINAGE AREA EXHIBIT	••
STORMWATER MANAGEMENT		
SWM-1	EXISTING CONDITIONS SWM EXHIBIT	••
SWM-2	IART EXHIBIT	••
SWM-3	BMP EXHIBIT	••
SWM-4	PROPOSED SWM EXHIBIT	••
SWM-5	EXISTING CONDITIONS SITE PHOTOS EXHIBIT	••
LANDSCAPE		
L100	SITE DEMOLITION & TREE PROTECTION PLAN	••
L101	SITE REFERENCE PLAN	••
L200A	SITE GRADING & LAYOUT PLAN A	••
L200B	SITE GRADING & LAYOUT PLAN B	••
L300	HABITAT A CURB LAYOUT PLAN	••
L310	HABITAT B CURB LAYOUT PLAN	••
L400	HABITAT A LAYOUT & GRADING PLAN	••
L410	HABITAT B LAYOUT & GRADING PLAN	••
L500	BED PREPARATION PLAN	••
L510A	PLANTING PLAN A	••
L510B	PLANTING PLAN B	••
L520	PLANTING DETAILS, NOTES, PLANT SCHEDULE	••
L600	SITE SECTIONS (FOR REFERENCE ONLY)	••
L700	HABITAT DETAILS	••
L701	SITE CAGING DETAILS	••
L702	SITE FENCING DETAILS	••
L703	VIEWING DETAILS	••
EXHIBIT GLAZING		
GL001	EXHIBIT GLAZING	••

DRAWING SHEET LIST		
SHEET NO.	SHEET NAME	PERMIT SET BID SET
STRUCTURAL		
S001	GENERAL STRUCTURAL NOTES	••
S002	GENERAL STRUCTURAL NOTES	••
S003	SPECIAL INSPECTIONS	••
S101	FOOTING & FOUNDATION PLAN	••
S121	ROOF FRAMING PLAN	••
S301	STRUCTURAL SCHEDULES	••
S302	STRUCTURAL SCHEDULES	••
S303	STRUCTURAL SCHEDULES	••
S501	STRUCTURAL FOUNDATION DETAILS	••
S521	STRUCTURAL FRAMING DETAILS	••
S531	EXHIBIT STRUCTURAL DETAILS	••
ARCHITECTURE DEMO		
AD210	EXG STRUCTURE DEMO FLOOR PLAN	••
ARCHITECTURE		
A001	3D VIEW	••
A002	DOOR & FINISH SCHEDULES, DOOR & FRAME TYPES	••
A003	DOOR DETAILS	••
A110	HOLDING BUILDING PLAN	••
A111	HOLDING BUILDING RCP	••
A112	HOLDING BUILDING ROOF PLAN	••
A120	BUILDING ELEVATIONS	••
A130	HOLDING BUILDING SECTIONS	••
A131	HOLDING BUILDING WALL SECTIONS	••
A132	HOLDING BUILDING WALL SECTIONS	••
A161	CONSTRUCTION DETAILS	••
A162	CONSTRUCTION DETAILS	••
A163	CONSTRUCTION DETAILS	••
A210	EXISTING STRUCTURE FLOOR PLAN	••
A230	EXISTING STRUCTURE BUILDING SECTIONS	••
A261	METAL STAIR DETAILS	••
CAGING		
CG001	CAGING GENERAL REQUIREMENTS	••
CG002	CAGING DETAILS	••
CG110	CAGING PLAN	••
CG111	CAGING PLAN RCP	••
CG121	CAGING ELEVATIONS	••
CG122	SERVICE GATE DETAILS	••
CG123	SERVICE GATE DETAILS	••

DRAWING SHEET LIST		
SHEET NO.	SHEET NAME	PERMIT SET BID SET
PLUMBING		
P001	PLUMBING SCHEDULES	••
P101	HOLDING BUILDING - PLUMBING - NEW WORK	••
P102	SITE PLAN - PLUMBING - NEW WORK	••
P501	PLUMBING DETAILS	••
P601	PIPING SCHEMATIC	••
ELECTRICAL		
E001	LEGEND	••
E101	PART SITE PLAN - ELECTRICAL - NEW WORK	••
E102	PART FLOOR PLAN - LIGHTING & POWER & SPECIAL SYSTEMS - NEW WORK	••
E103	PART FLOOR PLAN - LIGHTING & POWER DEMOLITION & NEW WORK	••
E104	FLOOR PLANS - LIGHTING PROTECTION - NEW WORK	••
E401	DETAILS	••
E601	PANEL SCHEDULES	••
MECHANICAL		
M001	MECHANICAL SCHEDULES AND LEGEND	••
M101	HOLDING BUILDING - HVAC - NEW WORK	••
M102	SITE PLAN - HVAC - NEW WORK	••
M301	SECTIONS	••
M501	DETAILS AND ATC	••

BKP

PROJECT TEAM:

ARCHITECT:
 BUELL KRATZER POWELL, P.C.
 1525 LOCUST STREET
 PHILADELPHIA, PA 19102
 T: 215.557.6509

CIVIL ENGINEER:
 CARROLL ENGINEERING, INC
 215 SCHILLING CIRCLE, STE 102
 HUNT VALLEY, MD 21031
 T: 410.785.7423

LANDSCAPE ARCHITECT:
 ROBINSON ANDERSON SUMMERS
 28 WEST STATE STREET
 MEDIA, PA 19063
 T: 302.888.1544

STRUCTURAL ENGINEER:
 STRUCTURAL DESIGN STUDIO, INC
 2225 EAST MURRAY HOLLADAY RD
 SALT LAKE CITY, UT 84117
 T: 801.274.3950

MEP ENGINEER:
 KOVACS, WHITNEY & ASSOCIATES
 190 WEST OSTEND ST, STE 300
 BALTIMORE, MD 21230
 T: 410.244.7191

CLIENT:

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 1 SAFARI PLACE
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RED PANDA
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SEAL:

JOSEPH H. POWELL, AIA
 MD LICENSE: 14268

DATE: JANUARY 14, 2025
 PROJECT NO: 2023-10.04

DRAWN BY	CC
CHECKED BY	JP
SUBMISSION	DATE
PERMIT SET	11/22/2024
BID SET	01/14/2025

DRAWING TITLE:
COVER SHEET

DRAWING NO:
G001

CODES, REGULATIONS & ORDINANCES

DRAWING SHEET LIST

ABBREVIATIONS

<	ANGLE	E	EAST	ID	INSIDE DIAMETER	QT	QUARRY TILE	W	WEST
@	AT	EA	EACH	IN	INCH	QTY	QUANTITY	W/	WITH
ABV	ANCHOR BOLT	EF	EXHAUST FAN	INCL	INCLUDE	R	RISER	WB	WATER BOWLS
AC	ABOVE	EPS	EXTERIOR INSULATION & FINISH SYSTEM	INFO	INFORMATION	RA	RETURN AIR	WC	WATER CLOSET
ACP	AIR CONDITIONING	EJ	EXPANSION JOINT	INST	INSTALLATION	RAD	RADIUS	WD	WOOD
ACT	ACOUSTICAL CEILING PANEL	EL	ELEVATION	INSUL	INSULATE(ION)	RB	RUBBER BASE	WDW	WINDOW
ADJ	ADJUSTABLE	ELEC	ELECTRICAL	INT	INTERIOR	RD	ROOF DRAIN	WGL	WIRE GLASS
AFF	ADJUSTABLE	ELEV	ELEVATOR	INTV	INTERVIEW	REC/P	RECEPTACLE	WH	WATER HEATER
AHU	AIR HANDLING UNIT	EMER	EMERGENCY	JAN	JANITOR	REF	REFERENCE	W/O	WITHOUT
ALT	ALTERNATE	EPBD	ELECTRICAL PANELBOARD	JB	JUNCTION BOX	REFG	REFRIGERATOR	WP	WORKING POINT
ALUM	ALUMINUM	EPS	EXPANDED POLYSTYRENE	JCT	JUNCTION	RENF	REINFORCED(D)ING	WR	WATER RESISTANT
AP	ACCESS PANEL	EPX	EPOXY	JO	JOINT	REQD	REQUIRED	WRB	WEATHER BARRIER
APC	APPROXIMATE	EQ	EQUAL	JOINT	JOINT	REQMT	REQUIREMENT	WSCT	WEIGHT
APPR	ARCH. PRECAST CONCRETE	EQUIP	EQUIPMENT	JT	JOINT	RESIN	RESIN	WT	WEIGHT
A/RCH	ARCHITECT(URAL)	EST	ESTIMATE	K-O	KNOCK-OUT	RET	RETURN		
ASB	ASBESTOS	EW	EACH WAY	LAB	LABORATORY	RF	RADIO FREQUENCY		
ATTEN	ATTENUATION	ENC	ELECTRIC WATER COOLER	LAM	LAMINATE	RFG	ROOFING		
AUTO	AUTOMATIC	EXH	EXHAUST	LAV	LAVATORY	RH	RIGHT HAND		
AVG	AVERAGE	EXST	EXISTING	LBS	POUNDS	RL	RAIN LEADER		
AWP	ACUSTICAL WALL PANEL	EXP	EXPANSION	LF	LINEAR FEET (FOOT)	RM	ROOM		
BC	BOTTOM OF CURB	EXP C	EXPOSED CONSTRUCTION	LH	LEFT HAND	RO	ROUGH OPENING		
BBD	BULLETIN BOARD	EXT	EXTERIOR	LKR	LOCKER	RT	RUBBER TILE		
BD	BOARD	FB	FACE BRICK	LT	LIGHT	RTU	ROOFTOP UNIT		
BLDG	BUILDING	FD	FLOOR DRAIN	LVR	LLOUVER	RW	RIGHT OF WAY		
BLK	BLOCK	FE	FIRE EXTINGUISHER	LW	LIGHTWEIGHT	S	SOUTH		
BLNG	BLOCKING	FEC	FIRE EXTINGUISHER CABINET	M	METER(S)	SAN	SANITARY		
BM	BENCH MARK	FF	FINISHED FLOOR	MACH	MACHINE	SAB	SOUND ATTENUATION BLANKET		
BO	BOTTOM OF	FFE	FINISHED FLOOR ELEVATION	MAS	MASONRY	SC	SOLID CORE		
BOT	BOTTOM OF CURB	FGL	FIBERGLASS	MATL	MATERIAL	SCH/ SCHED	SCHEDULE		
BRG	BEARING	FH	FIRE HYDRANT	MAX	MAXIMUM	SCWD	SOLID CORE WOOD DOOR		
BRK	BRICK	FHC	FIRE HOSE CABINET	MB	MARKERBOARD	SD	STORM DRAIN		
BSMT	BASEMENT	FHVC	FIRE HOSE VALVE CABINET	MECH	MECHANICAL	SHLVG	SHELVING		
BTWN	BETWEEN	FN	FINISHED	MEM	MEMBRANE	SHT	SHEET		
C	CARPET	FIXT	FIXTURE	MEMB	MEMBRANE	SHTH	SHEATHING		
CAB	CABINET	FLSHG	FLASHING	MANUF/MFG/MFR	MANUFACTURER	SIM	SIMILAR		
CB	CHALKBOARD	FLH	FLOOR HOLE	MH	MANHOLE	SOE	SPRAY PROOFING		
CCTV	CLOSED CIRCUIT TELEVISION	FLUR	FLUORESCENT	MIN	MINIMUM	SPEC	SPECIFICATION		
CFM	CUBIC FEET PER MINUTE	FND	FOUNDATION	MIR	MIRROR	SPR	SPRINKLER		
CG	CAGING	FOC	FACE OF CONCRETE	MISC	MISCELLANEOUS	SQ	SQUARE		
CI	CAST IRON	FOM	FACE OF MASONRY	MOLDG	MOLDING	SS	STAINLESS STEEL		
CP	CAST-IN-PLACE CONCRETE	FR	FIRE RATED	MO	MASONRY OPENING	ST	STONE		
CJ	CONTROL JOINT	FRM	FRAMING	MR	MAP RAIL	ST	STONE		
CL	CENTRUM	FRP	FIBERGLASS REIN. PLASTIC	MT	MOUNT	STA	STATION		
CLG	CEILING	FRT	FIBER RETARDANT TREATED	MTD/MNTD	MOUNTED	STC	SOUND TRANSMISSION COEF.		
CLM	CLOSED	FT	FOOT, FEET	MTG	MOUNTING	STD	STANDARD		
CM	CLEAR	FTG	FOOTING	MTL	METAL	STL	STEEL		
CMU	CENTIMETER	FURN	FURNITURE	MUL	MULLION	STOR	STORAGE		
CONTR	CONCRETE MASONRY UNIT	FURR	FURRING	MWP	MEMBRANE WATERPROOFING	STRUCT	STRUCTURAL		
CO	CLEAN OUT	FVC	FIRE VALVE CABINET	N	NORTH	SUBFLR	SUBFLOOR		
COL	COLUMN	G	GAS	NC	NOT IN CONTRACT	SUSP	SUSPENSION		
CONC	CONCRETE	GAL	GALVANIZED	NO	NUMBER	SYM	SYMMETRY(RICAL)		
CONST	CONSTRUCTION	GAW	GALVANIZED AFTER WELD	NOM	NOMINAL	T	TREAD		
CONTR	CONTINUOUS	GB	GRAB BAR	NRC	NOISE REDUCTION COEFFICIENT	TB	TACKBOARD		
CORR	CORRIDOR	GB	GRAB BAR	NTS	NOT TO SCALE	TBD	TO BE DETERMINE		
CR	CLASSROOM	GC	GENERAL CONTRACTOR	OC	ON CENTER	T&B	TOP & BOTTOM		
CRS	COURSE	GC	GENERAL CONTRACTOR	OD	OUTSIDE DIAMETER	TO	TOP OF		
CPT	CARPET TILES	GCMU	GLAZED CONC. MASONRY UNIT	OH	OVERHEAD	TOC	TOP OF CURB		
CTSK	COUNTERSINK	GEN	GENERAL	OPNG	OPENING	TEL	TELEPHONE		
CT	CERAMIC TILE	GFCL	GROUND FAULT CIRC. INTERUP.	OPP	OPPOSITE	T&G	TONGUE & GROOVE		
CUH	CABINET UNIT HEATER	GFRG	GLASS FIBER REIN. CONC.	PRKG	PARKING	THD	THRESHOLD		
CUYD	CUBIC YARD	GL	GLASS	PC	PRECAST	THK	THICK(NESS)		
CW	DOUBLE	GPM	GALLONS PER MINUTE	PERF	PERFORATE(D)	THRU	THROUGH		
DBL	COLD WATER	GR	GRADE	PERM	PERIMETER	TOS	TOP OF STEEL		
DEMO	DEMOLISH, DEMOLITION	GS	GALVANIZED STEEL	PIP	POURED IN PLACE	TOW	TOP OF WALL		
DEPT	DEPARTMENT	CSU	GLAZED STRUCTURAL UNIT	PL	PROPERTY LINE	TPT	TEXTURES PAINT		
DI	DIAGONAL	GYP	GYPSUM	PL	PLATE	TRT	TREATED		
DIAG	DIAMETER	HB	HOSE BIBB	PLAM	PLASTIC LAMINATE	TOS	TOP OF SLAB		
DM	DIMENSION	HBD	HARDBOARD	PLAS	PLASTER	TV	TELEVISION		
DM	DIMENSION	HBC	HORIZONTAL BRICK COURSE(S)	PLUMB	PLUMBING	TYP	TYPICAL		
DMT	DEMOUNTABLE	HC	HORIZONTAL COURSE(S) (CMU)	PLYWD/ PLY	PLYWOOD	UC	UNDERCUT		
DN	DOWN	HDPF	HIGH DENSITY POLYETHYLENE	PNT	PANEL	UG	UNDERGROUND		
DP	DAMP PROOFING	HDR	HEADER	PNT	PANT	UH	UNIT HEATER		
DR	DOWN SPOUT	HDNR	HARDENER	POLY	POLYETHYLENE	UNFIN	UNFINISHED		
DR	DOWN SPOUT	HDWD	HARDWOOD	PR	PAIR	UNO	UNLESS NOTED OTHERWISE		
DT	DRAIN TILE	HDWR	HARDWARE	PREFAB	PREFABRICATE(D)	V	VINYL		
DTL	DETAIL	HGT	HEIGHT	PREFIN	PREFINISHED	VAC	VACUUM		
DWG	DRAWING	HM	HOLLOW METAL	PREP	PREPARE	VB	VINYL BASE		
DWR	DRAWER	HR	HORIZONTAL	PROJ	PROJECT	VBC	HORIZONTAL BRICK COURSE(S)		
		HP	HORSEPOWER	PSF	POUNDS PER SQUARE FOOT	VCT	VINYL COMPOSITION TILE		
		HPC	HIGH PERFORMANCE COATING	PSI	POUNDS PER SQUARE INCH	VERT	VERTICAL		
		HR	HOUR	PT/PTD	PRESSURE TREATED	VEST	VESTIBLE		
		HS	HIGH STRENGTH	PTN	PARTITION	VIF	VERIFY IN FIELD		
		HT	HEIGHT	PVC	POLYVINYL CHLORIDE	VR	VAPOR RETARDER		
		HTG	HEATING	PMT	PAVEMENT	VT	VINYL TILE		
		HTR	HEATER			VVB	VINYL WALL BASE		
		HVAC	HEATING, VENTILATING AIR CONDITIONING			VVC	VINYL WALL COVERING		
		HW	HOT WATER						

SYMBOLS

SECTION	
EXTERIOR ELEVATION	
INTERIOR ELEVATION	
ENLARGEMENT	
NORTH ARROW	
DRAWING IDENTIFICATION	
BUILDING GRID	
MATCH LINE	
REVISION NUMBER	
ROOM NAME AND NUMBER	
ARCHITECTURAL DOOR NUMBER	
CAGING / KEEPER DOOR NUMBER	
CAGING / TRANSFER DOOR NUMBER	
CAGING / TRANSFER DOOR OPERATOR	
WALL TYPE	
CEILING HEIGHT ABOVE FINISHED FLOOR	
WINDOW NUMBER	
FIRE EXTINGUISHER	
ELEVATION MARK	
DIMENSION STRING	
HOSE BIBB/ MIXING STATION	
SPOT ELEVATION	

FLOOR ELEVATION (AS SHOWN IN SECTION AND ELEVATIONS)

BKP

PROJECT TEAM:

ARCHITECT:
BUELL KRATZER POWELL, P.C.
 1525 LOCUST STREET
 PHILADELPHIA, PA 19102
 T: 215.557.6509

CIVIL ENGINEER:
CARROLL ENGINEERING, INC
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 HUNT VALLEY, UT 21031
 T: 410.785.7423

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JOSEPH H. POWELL, AIA
 MD LICENSE: 14268

DATE:	JANUARY 14, 2025
PROJECT NO.:	2023-10.04
DRAWN BY:	Author
CHECKED BY:	Checker
SUBMISSION DATE:	
PERMIT SET:	11/22/2024
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REVISION:	DATE

DRAWING TITLE:
ABBREVIATIONS & SYMBOLS

DRAWING NO:
G002

**THE MARYLAND ZOO IN BALTIMORE
RED PANDA**

Prepared by:
BKP Architects, 1525 Locust Street, 5th Floor, Philadelphia, PA 19102
t: 215.557.6509

BUILDING DATA

A. Building Description

Located within the main zoo campus, the primary function of the holding building is to provide holding facilities for red pandas. Support spaces include holding stalls, animal food prep area, & mechanical room. The red panda holding building is a new one-story, cast-in-place, concrete structure with a wood truss framed roof.

The storage building is an existing building previously used for animal holding. The building is one-story with stone and mortar walls, and concrete roof. The storage building is within 14 feet of the red panda holding building and will be used to support storage needs for the staff such as animal crates and cleaning tools.

B. Occupancy Classification

Holding Building Occupancy: U - Utility (Animal Holding)
Storage Building Occupancy: S-2 (Storage)

C. Construction Type

Holding Building Occupancy: Type VB
Storage Building Occupancy: Type VB

D. Fire Protection & Egress

Automatic fire sprinklers not provided
Holding Total Building Exits 1
Storage Total Building Exits 2

E. Building Dimensions

Holding Building Total Area 390 SF
Average Building Height 16' 6"
Storage Building Total Area 348 SF
Average Building Height 17' 9"

F. OCCUPANT LOAD

Holding Building Total Occupancy Load 2
Holding Building Total Occupancy Load 2

LIMITS & REQUIREMENTS

G. Building Limits (IBC 503)

Area 5,500 SF
*Per 506.2.1 The allowable area of a single-occupancy building with no more than one story above grade plane shall be determined in accordance with Equation 5-1:
 $A_a = (A_u + [NS \times I]) = (5,500 \text{ SF} + [5,500 \text{ SF} \times 0]) = 5,500 \text{ SF}$
Height 40' - 0" (non-sprinklered)
Stories 1 (non-sprinklered)

H. Lot Limits

Zoning classification R - 7

I. Occupant Fire Protection Requirements (IBC 903)

Automatic fire sprinklers system not required

J. Construction Type Fire Resistive Requirements (IBC 601)

Structural Framing 0 hr
Bearing Walls (int.) 0 hr
Bearing Walls (ext.) 0 hr
Nonbearing Walls (int.) 0 hr
Nonbearing Walls (ext.) 0 hr
Floor Construction 0 hr
Roof Construction 0 hr

K. Exterior Wall and Opening Protection (IBC 602, 705.8)

Fire Separation Distance > 30 ft
Category ≥ 30 ft
Required rating walls (ext.) 0 hr
Allowable area for unprotected non-sprinkled openings No Limit
Allowable area for unprotected sprinkled openings Not Required
Allowable area for protected openings Not Required

IBC 705.8.1
Note i: "Buildings whose exterior bearing walls, exterior nonbearing walls, and exterior structural frame are not required to be fire-resistance rated by table 601 or 602 shall be permitted to have unlimited protected openings."

L. Means of Egress

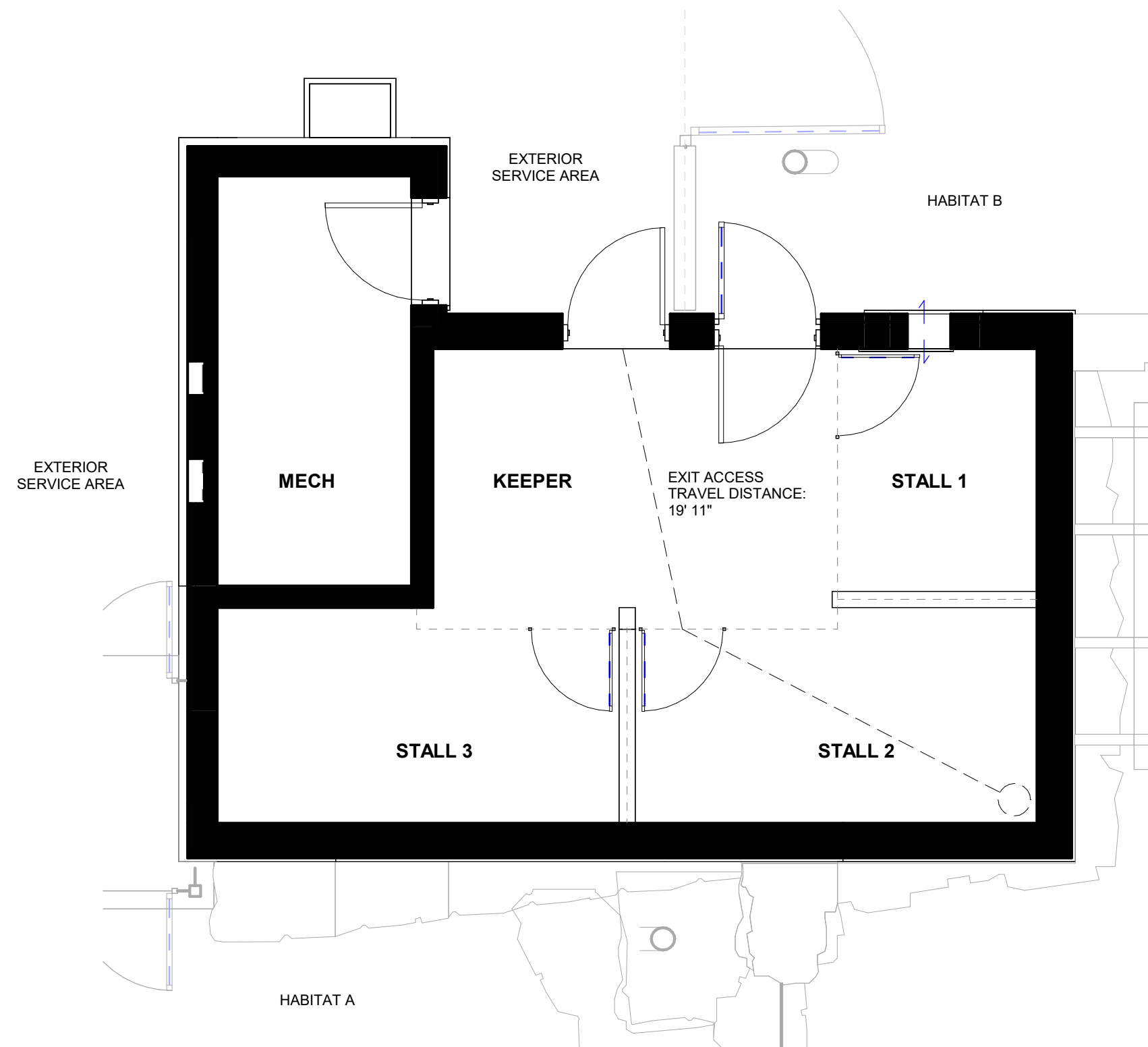
IBC 1006.3.3 (2)
Exit access travel distance shall not exceed 75 ft
IBC 1006.3.2
Two exits required for occupant load of 1-500 per story. 1
Exits Required 1
1006.3.3 Exception: "A single exit or access to a single exit shall be permitted from any story or occupied roof where one of the following conditions exists:
1. The occupant load, number of dwelling units and common path of egress travel distance do not exceed the values in Table 1006.3.3(1) or 1006.3.3(2).
2. Rooms, areas and spaces complying with Section 1006.2.1 with exits that discharge directly to the exterior at the level of exit discharge, are permitted to have one exit or access to a single exit."
IBC 1010.1.1
Min. required width of egress doors 32.0 in
IBC 1020.1, 1020.2
Exit corridor fire resistance rating for occupancy >30 without sprinkler 1 hr
Max. dead-end corridor length 20.0 ft
Min. corridor width serving occupancy >50 36.0 in

APPLICABLE CODES

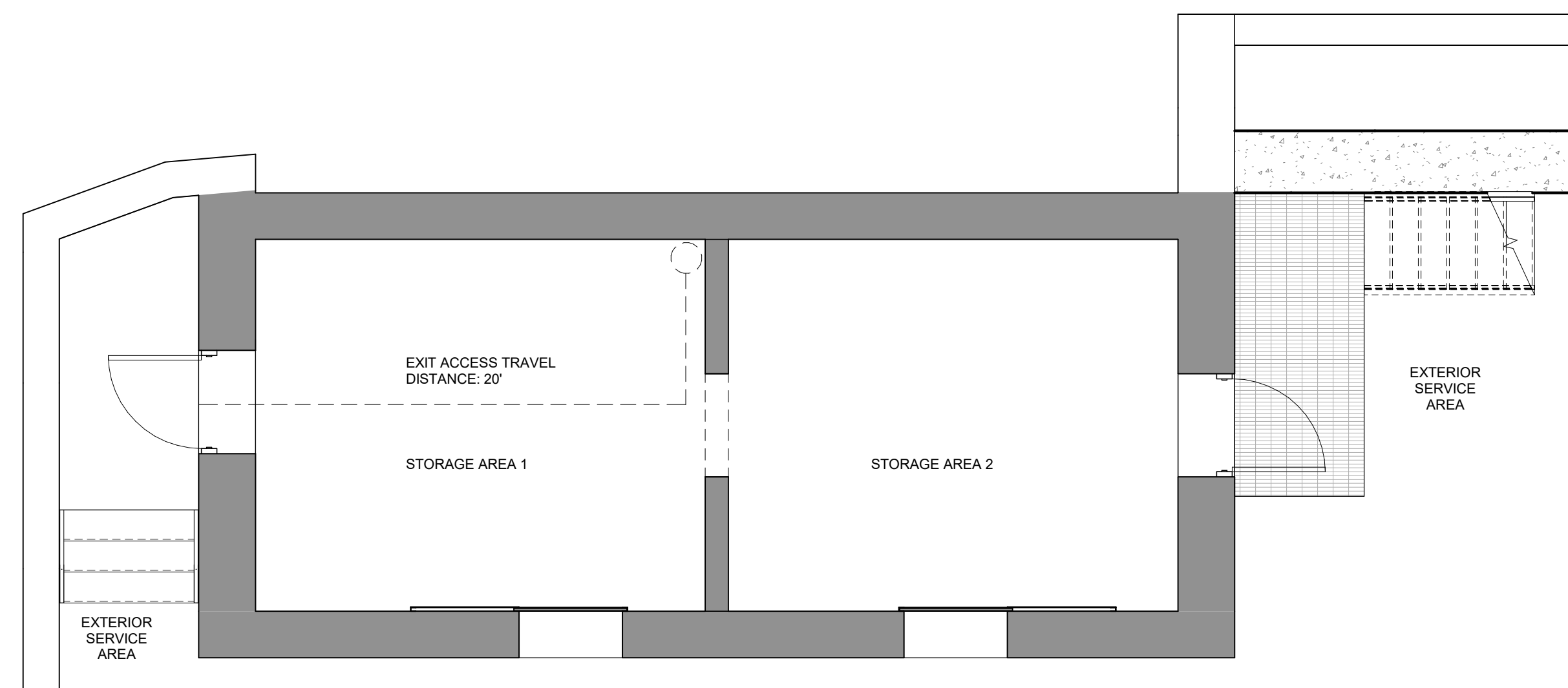
2019 Maryland Building Performance Standards;
2018 International Building Code, MD Edition;
2021 International Existing Building Code;
2017 National Electrical Code (NFPA 70);
2018 International Fuel Gas Code;
2018 Life Safety Code (NFPA 101);
2018 International Plumbing Code;
2018 International Mechanical Code;
2018 International Property Maintenance Code;
2018 International Fire Code;
2018 International Energy Conservation Code, MD Edition;
2018 International Green Construction Code;
2020 Baltimore City Building, Fire & Related Codes;
2012 Maryland Accessibility Code;
2010 ADA Standards for Accessible Design by Department of Justice;
ICC/ANSI A117.1-2009;
Baltimore City Building, Fire, and Related Codes (BCBFR 2024 Edition)

NUMBER	ROOM NAME	AREA	OCCUPANCY	OCCUPANT LOAD FACTOR	OCCUPANTS
A101	STALL 1	47 SF	U-ANIMAL HOLDING	300	0.2
A102	STALL 2	79 SF	U-ANIMAL HOLDING	300	0.3
A103	STALL 3	80 SF	U-ANIMAL HOLDING	300	0.3
A104	MECH	76 SF	U-MECH/ELEC	300	0.3
A105	KEEPER	108 SF	U-KEEPER	300	0.4
Grand total		390 SF			1.3

NUMBER	ROOM NAME	AREA	OCCUPANCY	OCCUPANT LOAD FACTOR	OCCUPANTS
A201	STORAGE AREA 1	174 SF	S2-STORAGE	300	0.6
A202	STORAGE AREA 2	174 SF	S2-STORAGE	300	0.6
Grand total		348 SF			1.2



HOLDING BUILDING - FIRE AND LIFE SAFETY PLAN



EXISTING STORAGE BUILDING - FIRE AND LIFE SAFETY PLAN



PROJECT TEAM:

ARCHITECT:
BUELL KRATZER POWELL, P.C.
1525 LOCUST STREET
PHILADELPHIA, PA 19102
T: 215.557.6509

CIVIL ENGINEER:
CARROLL ENGINEERING, INC
215 SCHILLING CIRCLE, STE 102
HUNT VALLEY, MD 21031
T: 410.785.7423

LANDSCAPE ARCHITECT:
ROBINSON ANDERSON SUMMERS
28 WEST STATE STREET
MEDIA, PA 19063
T: 302.888.1544

STRUCTURAL ENGINEER:
STRUCTURAL DESIGN STUDIO, INC
2225 EAST MURRAY HOLLADAY RD
SALT LAKE CITY, UT 84117
T: 801.274.3950

MEP ENGINEER:
KOVACS, WHITNEY & ASSOCIATES
190 WEST OSTEND ST, STE 300
BALTIMORE, MD 21230
T: 410.244.7191

CLIENT:

MARYLAND ZOO
THE MARYLAND ZOO IN BALTIMORE
1 SAFARI PLACE
BALTIMORE, MD 21217

RED PANDA
THE MARYLAND ZOO
IN BALTIMORE
1 SAFARI PLACE
BALTIMORE, MD 21217

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SEAL:



JOSEPH H. POWELL, AIA
MD LICENSE: 14268

DATE:	JANUARY 14, 2025
PROJECT NO:	2023-10.04
DRAWN BY:	CC
CHECKED BY:	JP
SUBMISSION:	DATE
PERMIT SET:	11/22/2024
BID SET:	01/14/2025
REVISION:	DATE

DRAWING TITLE:
CODE REVIEW

DRAWING NO:
G003



PROJECT TEAM:
ARCHITECT:
 BUELL KRATZER POWELL, P.C.
 1525 LOCUST STREET
 PHILADELPHIA, PA 19102
 T: 215.557.6509
CIVIL ENGINEER:
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 215 SCHILLING CIRCLE, STE 102
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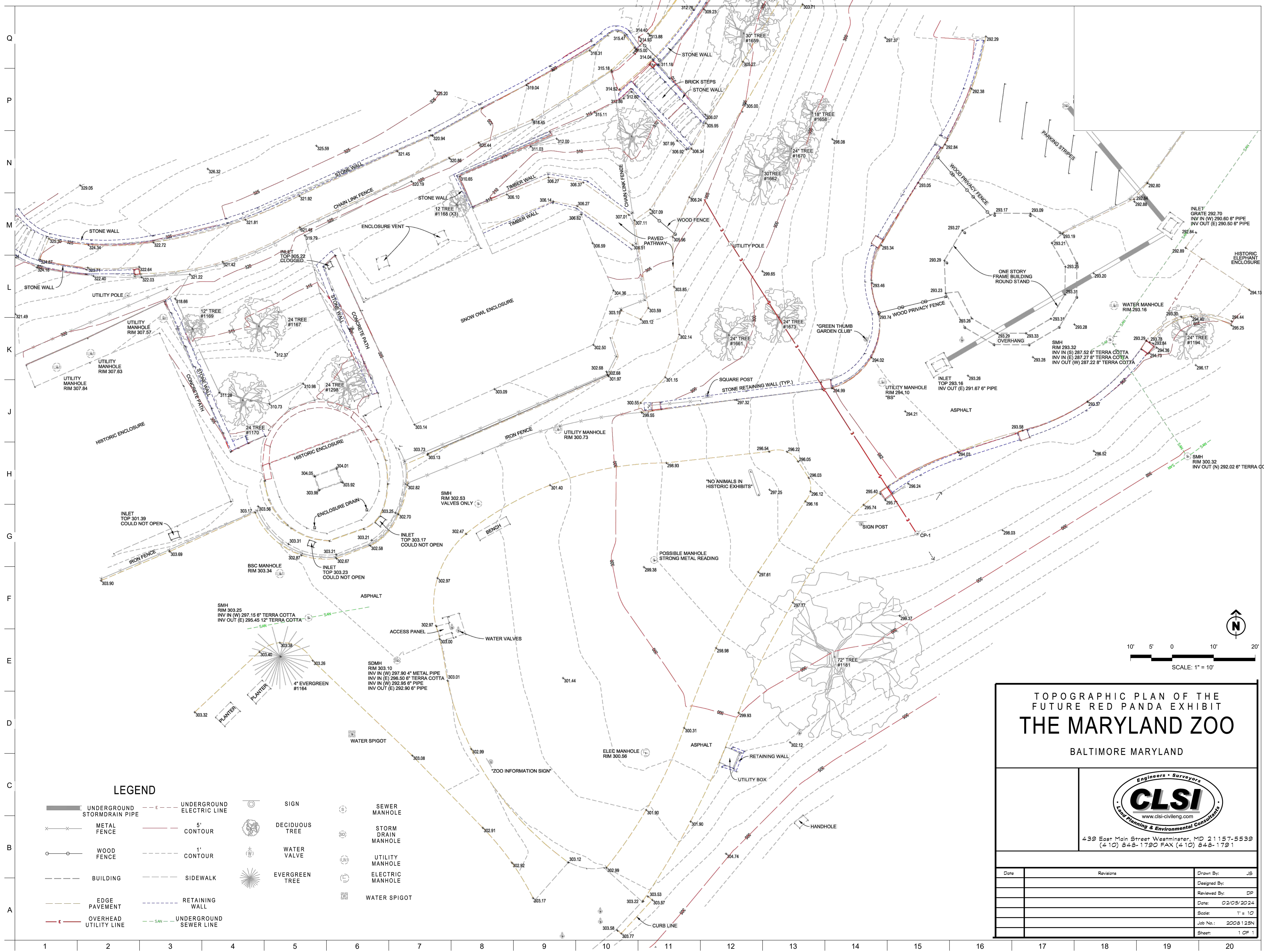
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SEAL:

DATE: JANUARY 14, 2025	PROJECT NO: 2023-10.04
DRAWN BY: AV / KS	CHECKED BY: JS / GA
SUBMISSION DATE: 01/14/2025	BID SET
REVISION	DATE

DRAWING TITLE:
 SITE SURVEY

DRAWING NO:
G110



**TOPOGRAPHIC PLAN OF THE
 FUTURE RED PANDA EXHIBIT
 THE MARYLAND ZOO
 BALTIMORE MARYLAND**

www.clsi-civileng.com
 439 East Main Street Westminster, MD 21157-5539
 (410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By:	JS
		Designed By:	
		Reviewed By:	DP
		Date:	02/05/2024
		Scale:	1" = 10'
		Job No.:	2008125N
		Sheet:	1 OF 1

LEGEND

- | | | | | | | | |
|--|------------------------------|--|---------------------------|--|----------------|--|---------------------|
| | UNDERGROUND STORM DRAIN PIPE | | UNDERGROUND ELECTRIC LINE | | SIGN | | SEWER MANHOLE |
| | METAL FENCE | | 5' CONTOUR | | DECIDUOUS TREE | | STORM DRAIN MANHOLE |
| | WOOD FENCE | | 1' CONTOUR | | WATER VALVE | | UTILITY MANHOLE |
| | BUILDING | | SIDEWALK | | EVERGREEN TREE | | ELECTRIC MANHOLE |
| | EDGE PAVEMENT | | RETAINING WALL | | WATER SPIGOT | | |
| | OVERHEAD UTILITY LINE | | UNDERGROUND SEWER LINE | | | | |



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ARCHITECT:
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 1525 LOCUST STREET
 PHILADELPHIA, PA 19102
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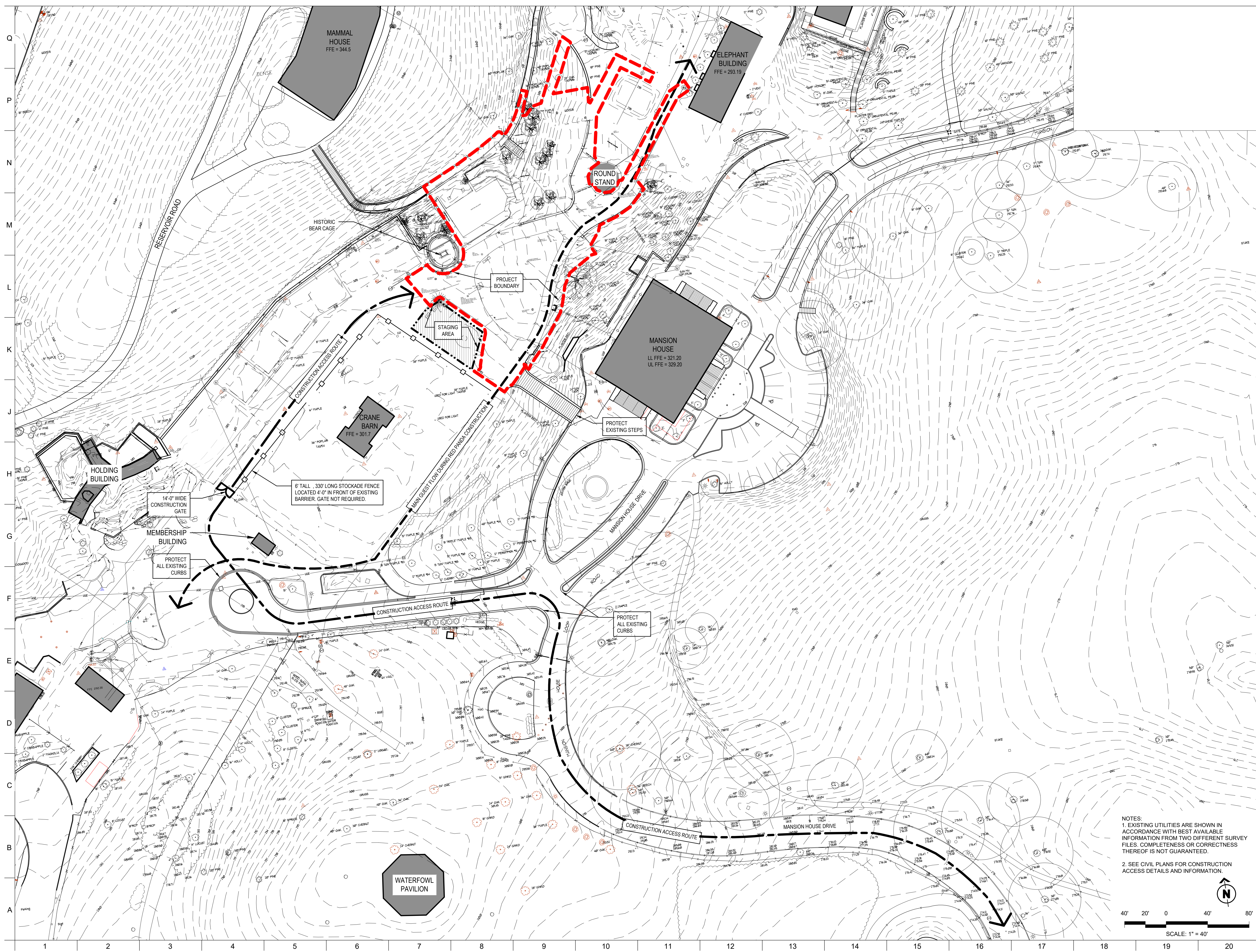
SEAL:

DATE: JANUARY 14, 2025
 PROJECT NO: 2023-10.04
 DRAWN BY: AV / KS
 CHECKED BY: JS / GA
 SUBMISSION DATE:
 BID SET: 01/14/2025

REVISION	DATE

DRAWING TITLE:
 SITE ACCESS PLAN

DRAWING NO:
G111



NOTES:
 1. EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH BEST AVAILABLE INFORMATION FROM TWO DIFFERENT SURVEY FILES. COMPLETENESS OR CORRECTNESS THEREOF IS NOT GUARANTEED.
 2. SEE CIVIL PLANS FOR CONSTRUCTION ACCESS DETAILS AND INFORMATION.

SCALE: 1" = 40'



PROJECT TEAM:
ARCHITECT:
 BUELL KRATZER POWELL, P.C.
 1525 LOCUST STREET
 PHILADELPHIA, PA 19102
 T: 215.557.6509
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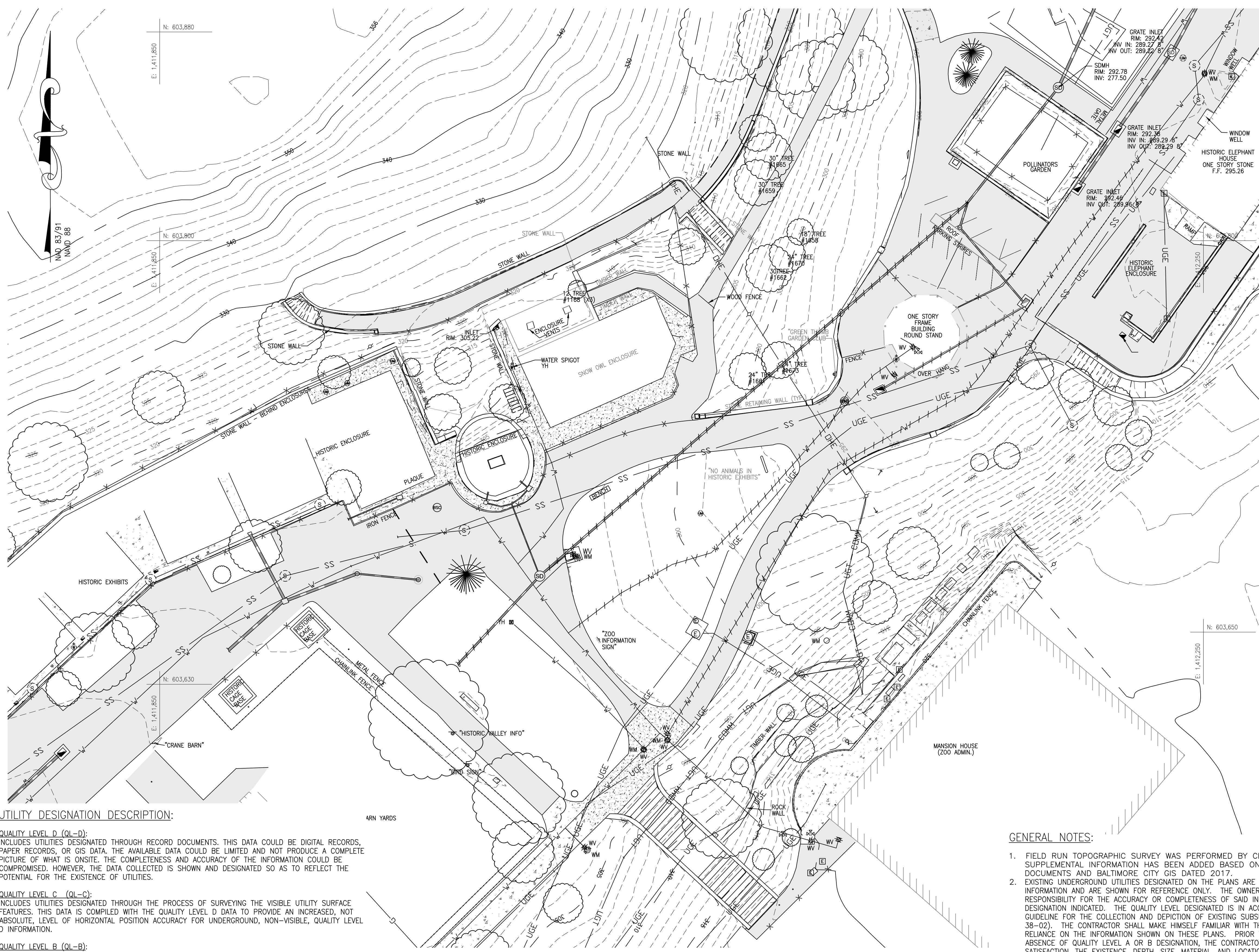
SEAL:

PROFESSIONAL CERTIFICATION: HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 14446, EXPIRATION DATE 9/25/25.

DATE:	JANUARY 14, 2025
PROJECT NO:	2023-10.04
DRAWN BY:	MJE
CHECKED BY:	CMS
SUBMISSION:	DATE
BID SET:	01/14/2025
REVISION:	DATE

DRAWING TITLE:
 EXISTING
 CONDITIONS
 PLAN

DRAWING NO:
 C100



UTILITY DESIGNATION DESCRIPTION:

QUALITY LEVEL D (QL-D):
 INCLUDES UTILITIES DESIGNATED THROUGH RECORD DOCUMENTS. THIS DATA COULD BE DIGITAL RECORDS, PAPER RECORDS, OR GIS DATA. THE AVAILABLE DATA COULD BE LIMITED AND NOT PRODUCE A COMPLETE PICTURE OF WHAT IS ONSITE. THE COMPLETENESS AND ACCURACY OF THE INFORMATION COULD BE COMPROMISED. HOWEVER, THE DATA COLLECTED IS SHOWN AND DESIGNATED SO AS TO REFLECT THE POTENTIAL FOR THE EXISTENCE OF UTILITIES.

QUALITY LEVEL C (QL-C):
 INCLUDES UTILITIES DESIGNATED THROUGH THE PROCESS OF SURVEYING THE VISIBLE UTILITY SURFACE FEATURES. THIS DATA IS COMPILED WITH THE QUALITY LEVEL D DATA TO PROVIDE AN INCREASED, NOT ABSOLUTE, LEVEL OF HORIZONTAL POSITION ACCURACY FOR UNDERGROUND, NON-VISIBLE, QUALITY LEVEL D INFORMATION.

QUALITY LEVEL B (QL-B):
 INCLUDES DESIGNATING THE UNDERGROUND UTILITIES BY MARKINGS PROVIDED THROUGH AN 811 CALL, BY CONTACTING AN INDIVIDUAL UTILITY COMPANY, OR PERFORMING TRACING OR GROUND PENETRATING RADAR. THE DESIGNATED UTILITY MARKINGS ARE THEN SURVEYED AND ADDED TO THE DRAWING. THIS DATA IS ADDED TO THE DATA COLLECTED FROM QUALITY LEVELS D AND C TO PROVIDE AN INCREASED LEVEL OF HORIZONTAL POSITION ACCURACY FOR UNDERGROUND, NON-VISIBLE UTILITIES.

QUALITY LEVEL A (QL-A):
 INVOLVES PHYSICALLY LOCATING THE ACTUAL UTILITY BY MEANS OF TEST PITTING OR OTHER METHODS OF EXPOSURE. ONCE THE UTILITY IS EXPOSED IT IS LOCATED HORIZONTALLY AND VERTICALLY BY SURVEY MEASUREMENTS.

****ALL UTILITIES LACKING A QUALITY LEVEL DESIGNATION ON THE PLANS SHALL BE CONSIDERED QUALITY LEVEL D (QL-D).**

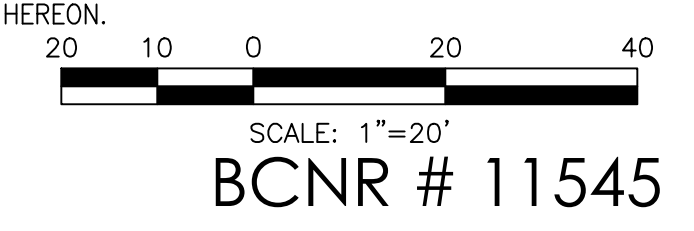
GENERAL NOTES:

- FIELD RUN TOPOGRAPHIC SURVEY WAS PERFORMED BY CLSI IN FEBRUARY 2024. SUPPLEMENTAL INFORMATION HAS BEEN ADDED BASED ON AVAILABLE RECORD DOCUMENTS AND BALTIMORE CITY GIS DATED 2017.
- EXISTING UNDERGROUND UTILITIES DESIGNATED ON THE PLANS ARE BASED ON CURRENTLY AVAILABLE INFORMATION AND ARE SHOWN FOR REFERENCE ONLY. THE OWNER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF SAID INFORMATION BEYOND THE DESIGNATION INDICATED. THE QUALITY LEVEL DESIGNATED IS IN ACCORDANCE WITH ASCE "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" (CI/ASCE 38-02). THE CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH THOSE STANDARDS PRIOR TO ANY RELIANCE ON THE INFORMATION SHOWN ON THESE PLANS. PRIOR TO ANY EXCAVATION, IN THE ABSENCE OF QUALITY LEVEL A OR B DESIGNATION, THE CONTRACTOR SHALL VERIFY, TO HIS OWN SATISFACTION, THE EXISTENCE, DEPTH, SIZE, MATERIAL, AND LOCATION OF ALL UNDERGROUND UTILITIES, AND DETERMINE WHETHER THOSE UTILITIES ARE LIVE. ANY EARTHWORK IN LOCATIONS WHERE UTILITIES ARE POSSIBLE SHALL BE DONE WITH EXTREME CAUTION. THE GIVING OF INFORMATION ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO SUPPORT AND PROTECT ALL DESIGNATED OR UNDESIGNATED EXISTING UTILITIES AND APPURTENANCES. SHOULD ANY EXISTING UTILITY BE DAMAGED BY THE CONTRACTOR, THE CONTRACTOR SHALL REPAIR THE DAMAGE CAUSED TO THE UTILITY OWNER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE.
- LIVE UNDERGROUND UTILITIES MAY EXIST WITHIN THE WORK AREA. CONTRACTOR SHALL USE EXTREME CAUTION AND SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
- INFORMATION SHOWN ON THIS DRAWING HAS BEEN PROVIDED AS A GUIDE TO ASSIST THE CONTRACTOR IN ESTABLISHING THE LOCATIONS OF PROPOSED CONSTRUCTION WITH RESPECT TO EXISTING SITE IMPROVEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL CONSTRUCTION SURVEY STAKEOUT REQUIRED AND TO CONFIRM ALL INFORMATION SHOWN HEREON.

OWNER / DEVELOPER / APPLICANT:
 MARYLAND ZOO IN BALTIMORE
 1876 MANSION HOUSE DRIVE
 BALTIMORE MD 21217
 CONTACT: MR. KARL KRANZ
 PHONE: 443-552-3350

LEGEND

	EXISTING BUILDING
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING CURB
	EXISTING ROADWAY
	EXISTING PAVEMENT
	EXISTING ASPHALT PAVING
	EXISTING CONCRETE PAVING
	EXISTING FENCELINE
	EXISTING SIGN
	EXISTING ELECTRIC HANDBOX
	EXISTING ELECTRIC MANHOLE
	EXISTING OVERHEAD ELECTRIC
	EXISTING ELECTRIC
	EXISTING SANITARY LINE
	EXISTING SANITARY MANHOLE
	EXISTING STORMDRAIN LINE
	EXISTING STORMDRAIN INLET
	EXISTING STORMDRAIN MANHOLE
	EXISTING UTILITY POLE
	EXISTING WATER VALVE
	EXISTING STORM MANHOLE
	EXISTING SOILS
	EXISTING TREELINE
	EXISTING DECIDUOUS TREE
	EXISTING EVERGREEN TREE
	EXISTING WATER METER
	EXISTING TELEPHONE PESTAL
	EXISTING WATER LINE
	EXISTING FIRE HYDRANT
	EXISTING COMMUNICATION
	UTILITY MAHMHOLE
	EXISTING FLAGPOLE
	EXISTING SHRUB
	EXISTING LIGHT POLE
	EXISTING BRICK PAVING
	EXISTING GRAVEL
	EXISTING UNDERGROUND ELECTRIC
	EXISTING TELEPHONE
	EXISTING BOLLARD
	EXISTING SANITARY CLEANOUT
	EXISTING GAS LINE
	EXISTING WATER METER



EXISTING CONDITIONS PLAN
 SCALE: 1"=20'

HORIZONTAL DATUM: NAD 83(2011)
 VERTICAL DATUM: NAVD 88

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PROJECT TEAM:

ARCHITECT:
BUELL KRATZER POWELL, P.C.
 1525 LOCUST STREET
 PHILADELPHIA, PA 19102
 T: 215.557.6509

CIVIL ENGINEER:
CARROLL ENGINEERING, INC
 215 SCHILLING CIRCLE, STE 102
 HUNT VALLEY, MD 21031
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 MEDIA, PA 19063
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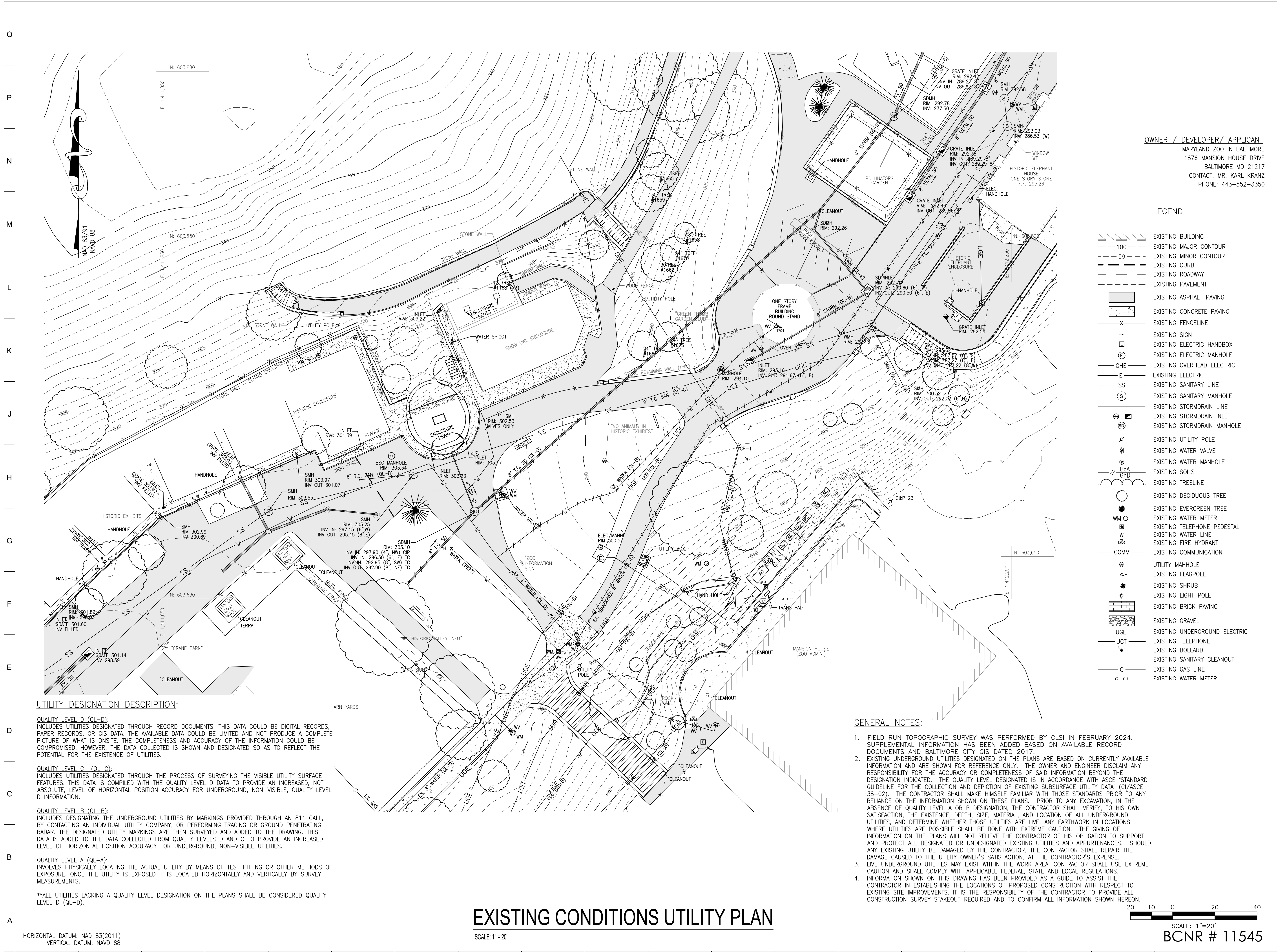
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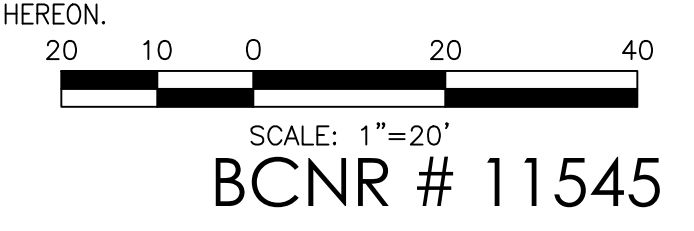
DATE:	JANUARY 14, 2025
PROJECT NO:	2023-10-04
DRAWN BY:	MJE
CHECKED BY:	CMS
SUBMISSION:	DATE
BID SET:	01/14/2025
REVISION:	DATE

DRAWING TITLE:
 EXISTING
 CONDITIONS
 UTILITY PLAN

DRAWING NO:
C101



EXISTING CONDITIONS UTILITY PLAN
 SCALE: 1"=20'



HORIZONTAL DATUM: NAD 83(2011)
 VERTICAL DATUM: NAVD 88

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



PROJECT TEAM:
ARCHITECT:
 BUELL KRATZER POWELL, P.C.
 1525 LOCUST STREET
 PHILADELPHIA, PA 19102
 T: 215.557.6509
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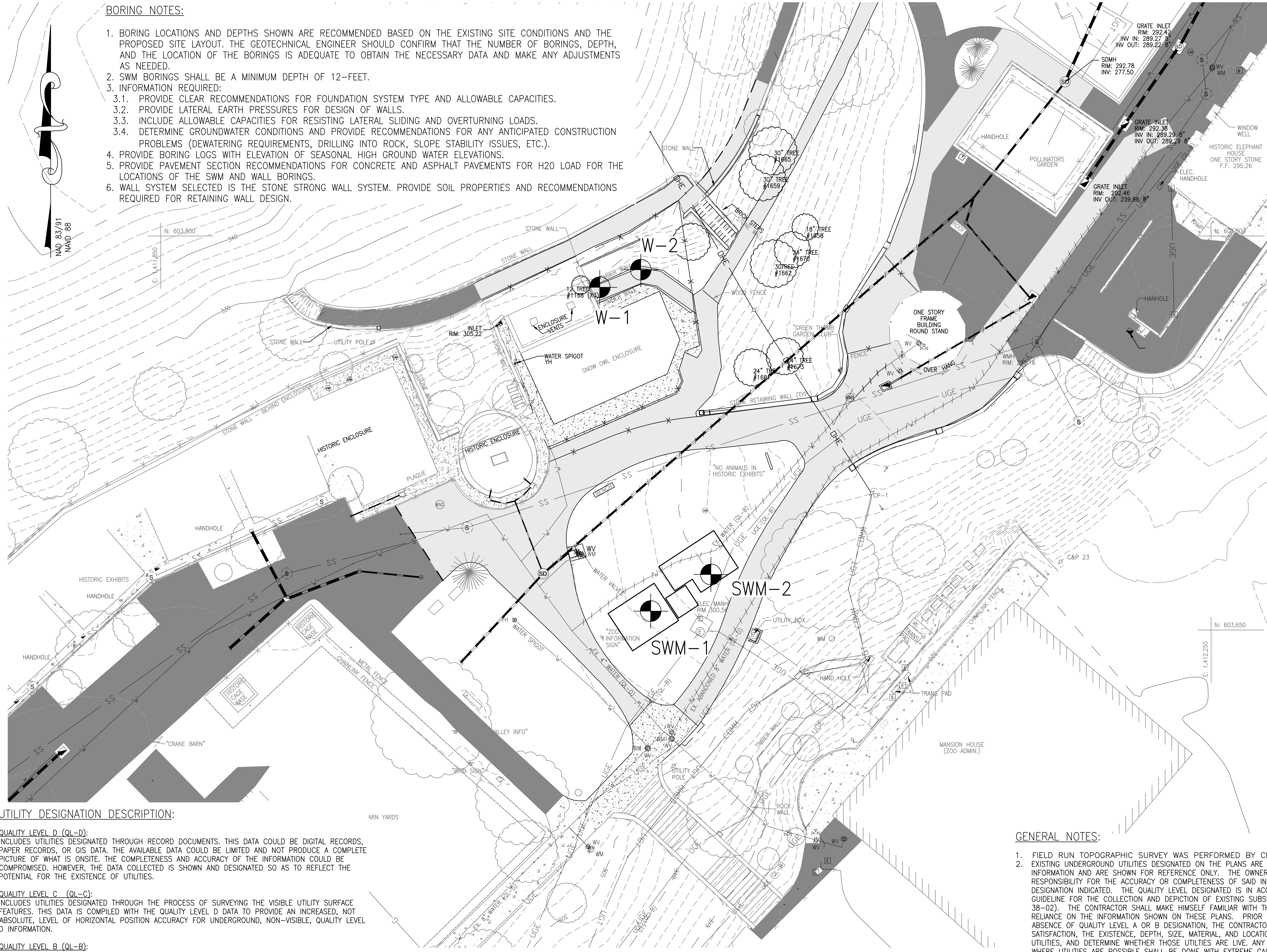
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DRAWN BY:	MJE
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SUBMISSION DATE:	
BID SET:	01/14/2025
REVISION:	DATE

DRAWING TITLE:
 BORING PLAN

DRAWING NO:
C110

BORING NOTES:

- BORING LOCATIONS AND DEPTHS SHOWN ARE RECOMMENDED BASED ON THE EXISTING SITE CONDITIONS AND THE PROPOSED SITE LAYOUT. THE GEOTECHNICAL ENGINEER SHOULD CONFIRM THAT THE NUMBER OF BORINGS, DEPTH, AND THE LOCATION OF THE BORINGS IS ADEQUATE TO OBTAIN THE NECESSARY DATA AND MAKE ANY ADJUSTMENTS AS NEEDED.
- SWM BORINGS SHALL BE A MINIMUM DEPTH OF 12-FEET.
- INFORMATION REQUIRED:
 - PROVIDE CLEAR RECOMMENDATIONS FOR FOUNDATION SYSTEM TYPE AND ALLOWABLE CAPACITIES.
 - PROVIDE LATERAL EARTH PRESSURES FOR DESIGN OF WALLS.
 - INCLUDE ALLOWABLE CAPACITIES FOR RESISTING LATERAL SLIDING AND OVERTURNING LOADS.
 - DETERMINE GROUNDWATER CONDITIONS AND PROVIDE RECOMMENDATIONS FOR ANY ANTICIPATED CONSTRUCTION PROBLEMS (DEWATERING REQUIREMENTS, DRILLING INTO ROCK, SLOPE STABILITY ISSUES, ETC.).
 - PROVIDE BORING LOGS WITH ELEVATION OF SEASONAL HIGH GROUND WATER ELEVATIONS.
 - PROVIDE PAVEMENT SECTION RECOMMENDATIONS FOR CONCRETE AND ASPHALT PAVEMENTS FOR H20 LOAD FOR THE LOCATIONS OF THE SWM AND WALL BORINGS.
 - WALL SYSTEM SELECTED IS THE STONE STRONG WALL SYSTEM. PROVIDE SOIL PROPERTIES AND RECOMMENDATIONS REQUIRED FOR RETAINING WALL DESIGN.



UTILITY DESIGNATION DESCRIPTION:

QUALITY LEVEL D (QL-D):
 INCLUDES UTILITIES DESIGNATED THROUGH RECORD DOCUMENTS. THIS DATA COULD BE DIGITAL RECORDS, PAPER RECORDS, OR GIS DATA. THE AVAILABLE DATA COULD BE LIMITED AND NOT PRODUCE A COMPLETE PICTURE OF WHAT IS ONSITE. THE COMPLETENESS AND ACCURACY OF THE INFORMATION COULD BE COMPROMISED. HOWEVER, THE DATA COLLECTED IS SHOWN AND DESIGNATED SO AS TO REFLECT THE POTENTIAL FOR THE EXISTENCE OF UTILITIES.

QUALITY LEVEL C (QL-C):
 INCLUDES UTILITIES DESIGNATED THROUGH THE PROCESS OF SURVEYING THE VISIBLE UTILITY SURFACE FEATURES. THIS DATA IS COMPILED WITH THE QUALITY LEVEL D DATA TO PROVIDE AN INCREASED, NOT ABSOLUTE, LEVEL OF HORIZONTAL POSITION ACCURACY FOR UNDERGROUND, NON-VISIBLE, QUALITY LEVEL D INFORMATION.

QUALITY LEVEL B (QL-B):
 INCLUDES DESIGNATING THE UNDERGROUND UTILITIES BY MARKINGS PROVIDED THROUGH AN 811 CALL, BY CONTACTING AN INDIVIDUAL UTILITY COMPANY, OR PERFORMING TRACING OR GROUND PENETRATING RADAR. THE DESIGNATED UTILITY MARKINGS ARE THEN SURVEYED AND ADDED TO THE DRAWING. THIS DATA IS ADDED TO THE DATA COLLECTED FROM QUALITY LEVELS D AND C TO PROVIDE AN INCREASED LEVEL OF HORIZONTAL POSITION ACCURACY FOR UNDERGROUND, NON-VISIBLE UTILITIES.

QUALITY LEVEL A (QL-A):
 INVOLVES PHYSICALLY LOCATING THE ACTUAL UTILITY BY MEANS OF TEST PITTING OR OTHER METHODS OF EXPOSURE. ONCE THE UTILITY IS EXPOSED IT IS LOCATED HORIZONTALLY AND VERTICALLY BY SURVEY MEASUREMENTS.

****ALL UTILITIES LACKING A QUALITY LEVEL DESIGNATION ON THE PLANS SHALL BE CONSIDERED QUALITY LEVEL D (QL-D).**

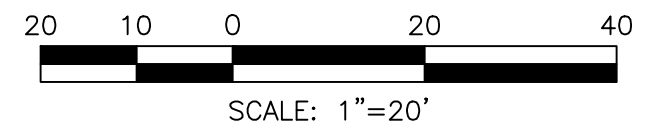
GENERAL NOTES:

- FIELD RUN TOPOGRAPHIC SURVEY WAS PERFORMED BY CLSI IN FEBRUARY 2024.
- EXISTING UNDERGROUND UTILITIES DESIGNATED ON THE PLANS ARE BASED ON CURRENTLY AVAILABLE INFORMATION AND ARE SHOWN FOR REFERENCE ONLY. THE OWNER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF SAID INFORMATION BEYOND THE DESIGNATION INDICATED. THE QUALITY LEVEL DESIGNATED IS IN ACCORDANCE WITH ASCE "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" (CI/ASCE 38-02). THE CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH THOSE STANDARDS PRIOR TO ANY RELIANCE ON THE INFORMATION SHOWN ON THESE PLANS. PRIOR TO ANY EXCAVATION, IN THE ABSENCE OF QUALITY LEVEL A OR B DESIGNATION, THE CONTRACTOR SHALL VERIFY, TO HIS OWN SATISFACTION, THE EXISTENCE, DEPTH, SIZE, MATERIAL, AND LOCATION OF ALL UNDERGROUND UTILITIES, AND DETERMINE WHETHER THOSE UTILITIES ARE LIVE. ANY EARTHWORK IN LOCATIONS WHERE UTILITIES ARE POSSIBLE SHALL BE DONE WITH EXTREME CAUTION. THE GIVING OF INFORMATION ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO SUPPORT AND PROTECT ALL DESIGNATED OR UNDESIGNATED EXISTING UTILITIES AND APPURTENANCES. SHOULD ANY EXISTING UTILITY BE DAMAGED BY THE CONTRACTOR, THE CONTRACTOR SHALL REPAIR THE DAMAGE CAUSED TO THE UTILITY OWNER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE.
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- INFORMATION SHOWN ON THIS DRAWING HAS BEEN PROVIDED AS A GUIDE TO ASSIST THE CONTRACTOR IN ESTABLISHING THE LOCATIONS OF PROPOSED CONSTRUCTION WITH RESPECT TO EXISTING SITE IMPROVEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL CONSTRUCTION SURVEY STAKEOUT REQUIRED AND TO CONFIRM ALL INFORMATION SHOWN HEREON.

BORING PLAN

SCALE: 1"=20'

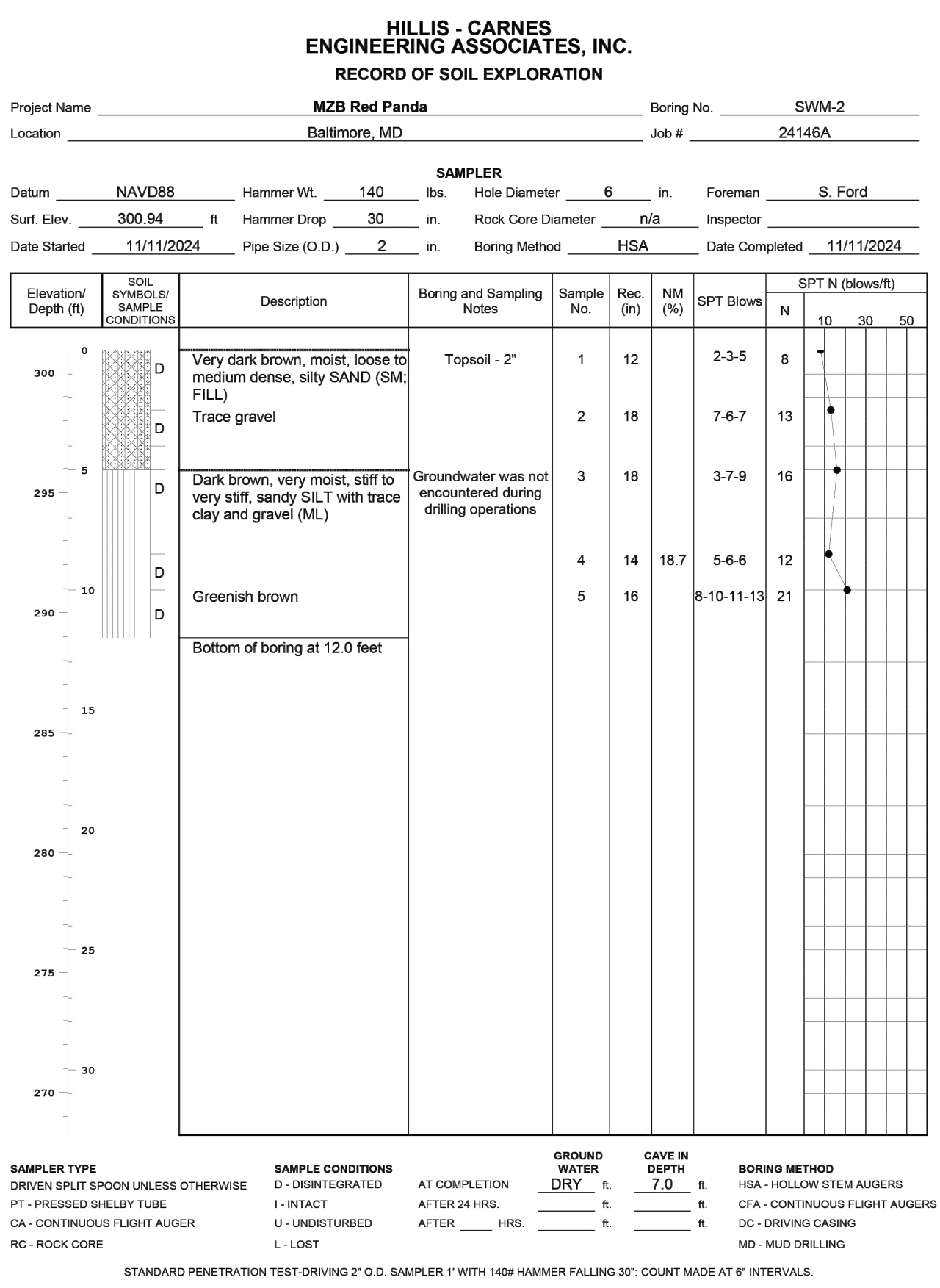
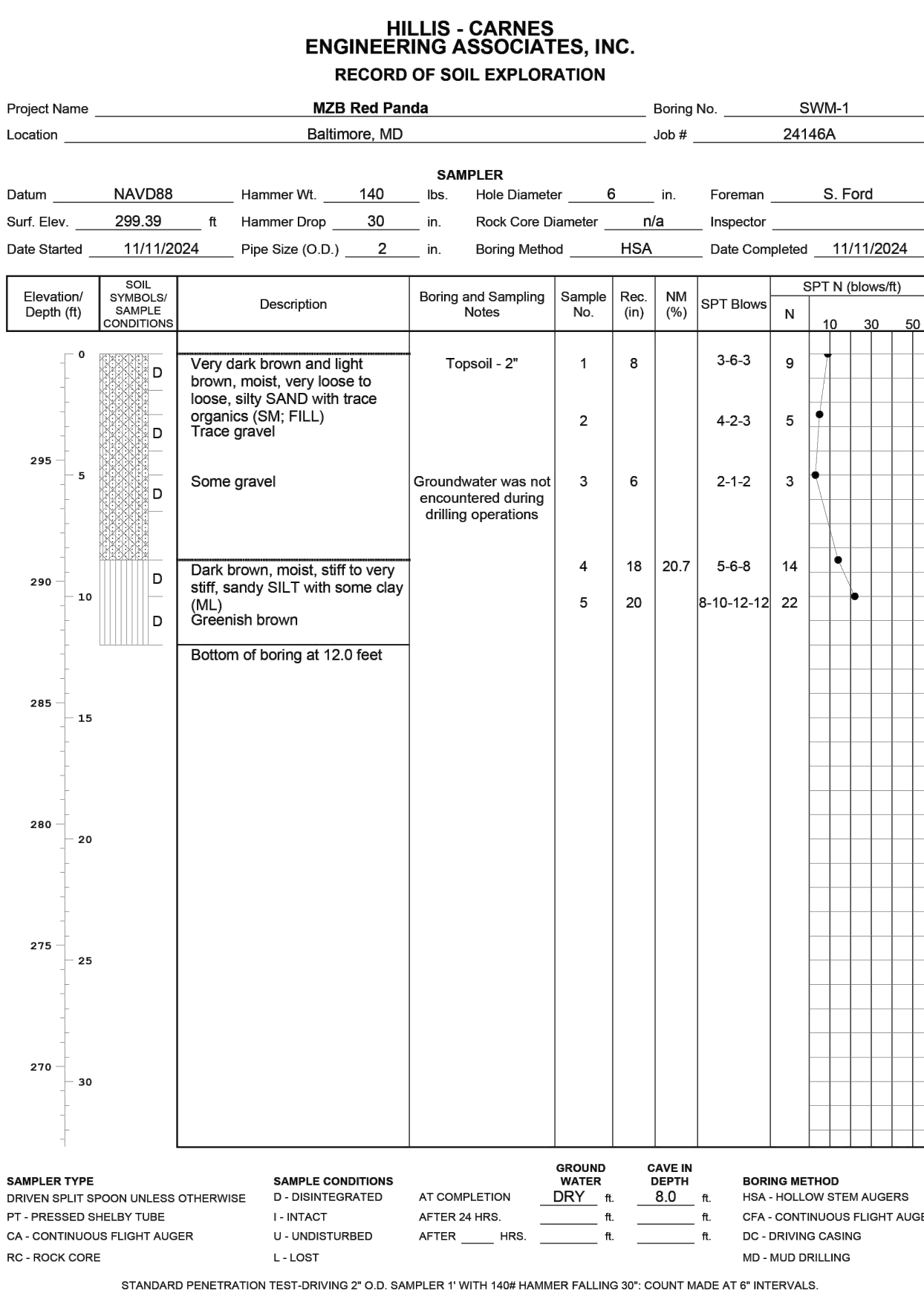
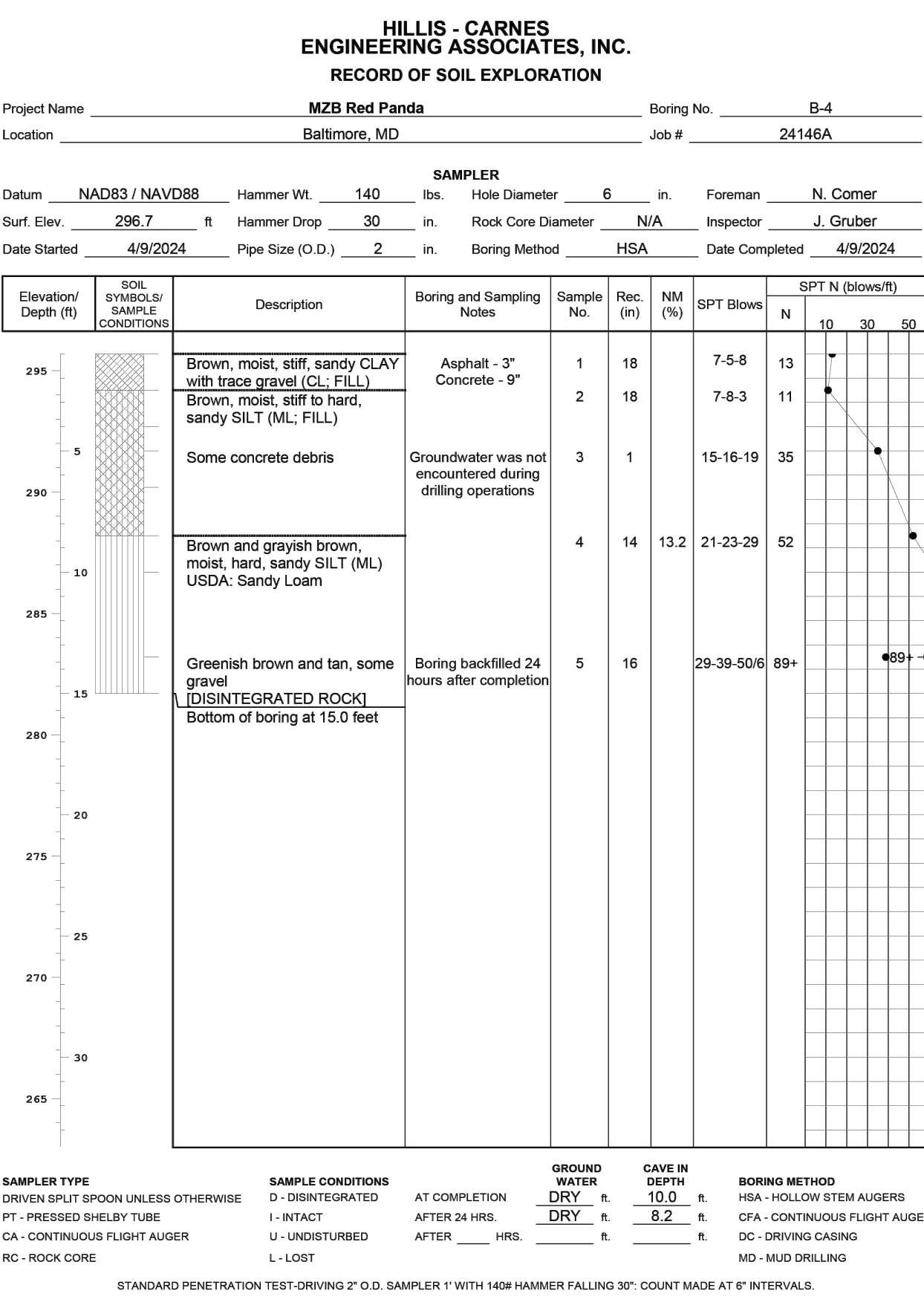
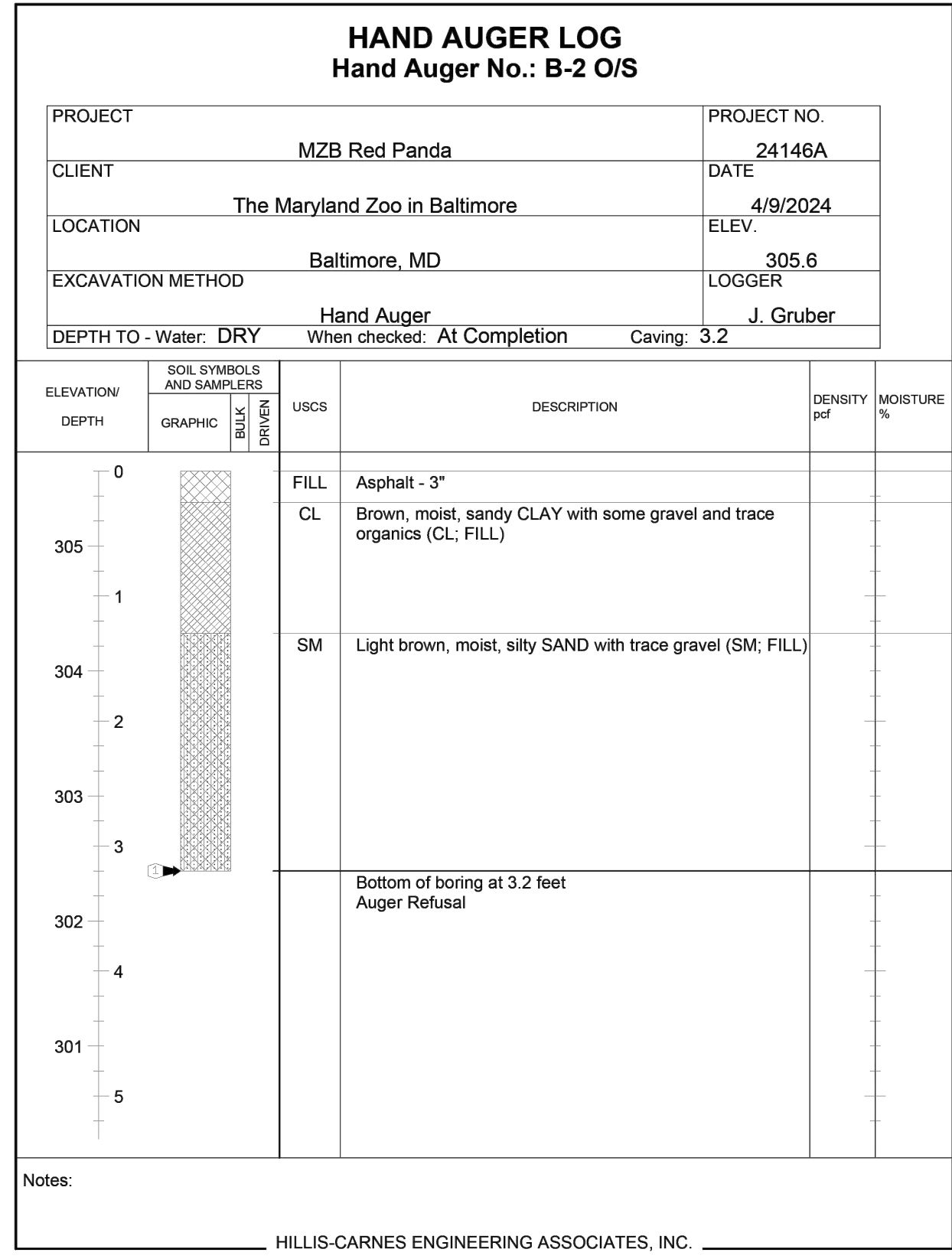
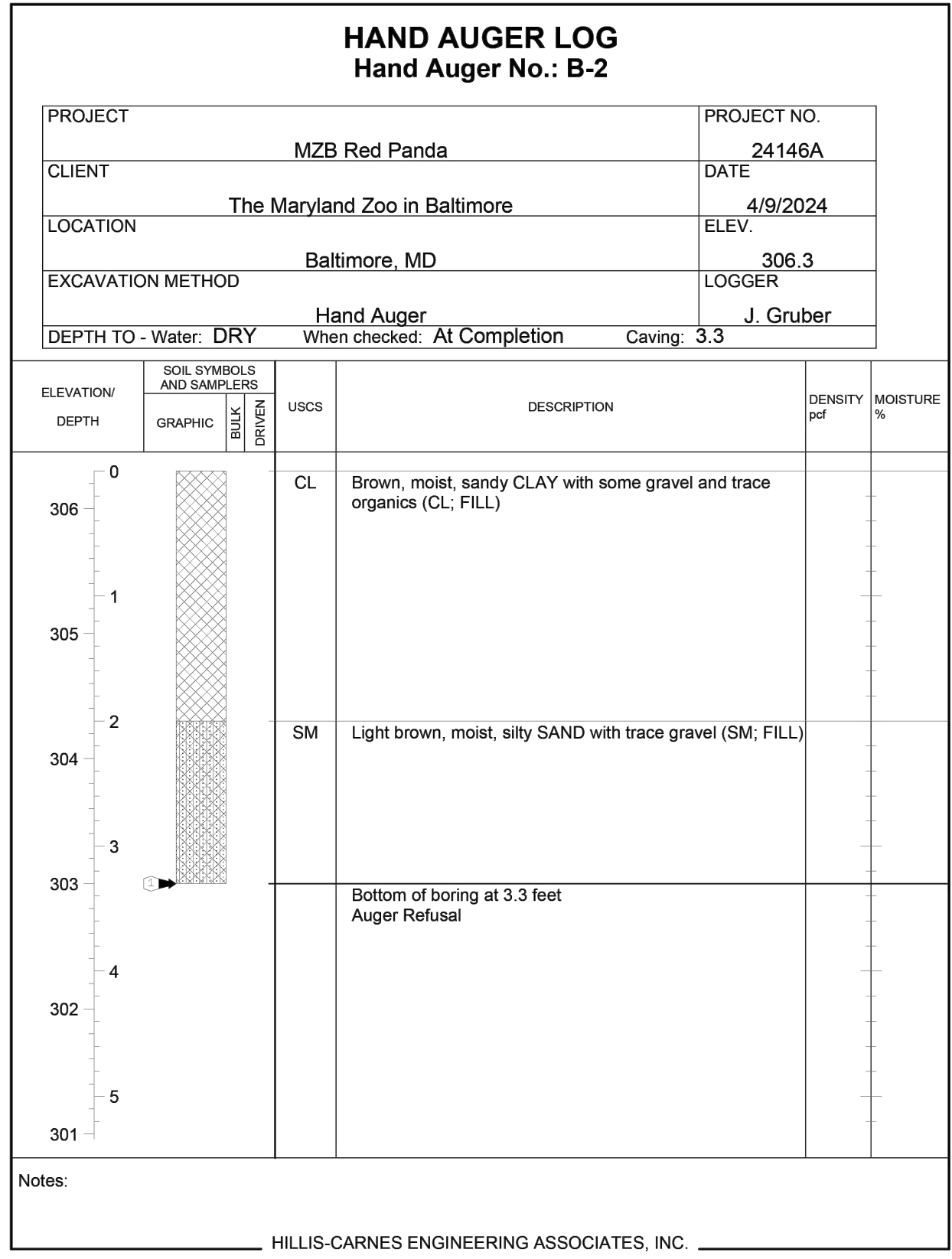
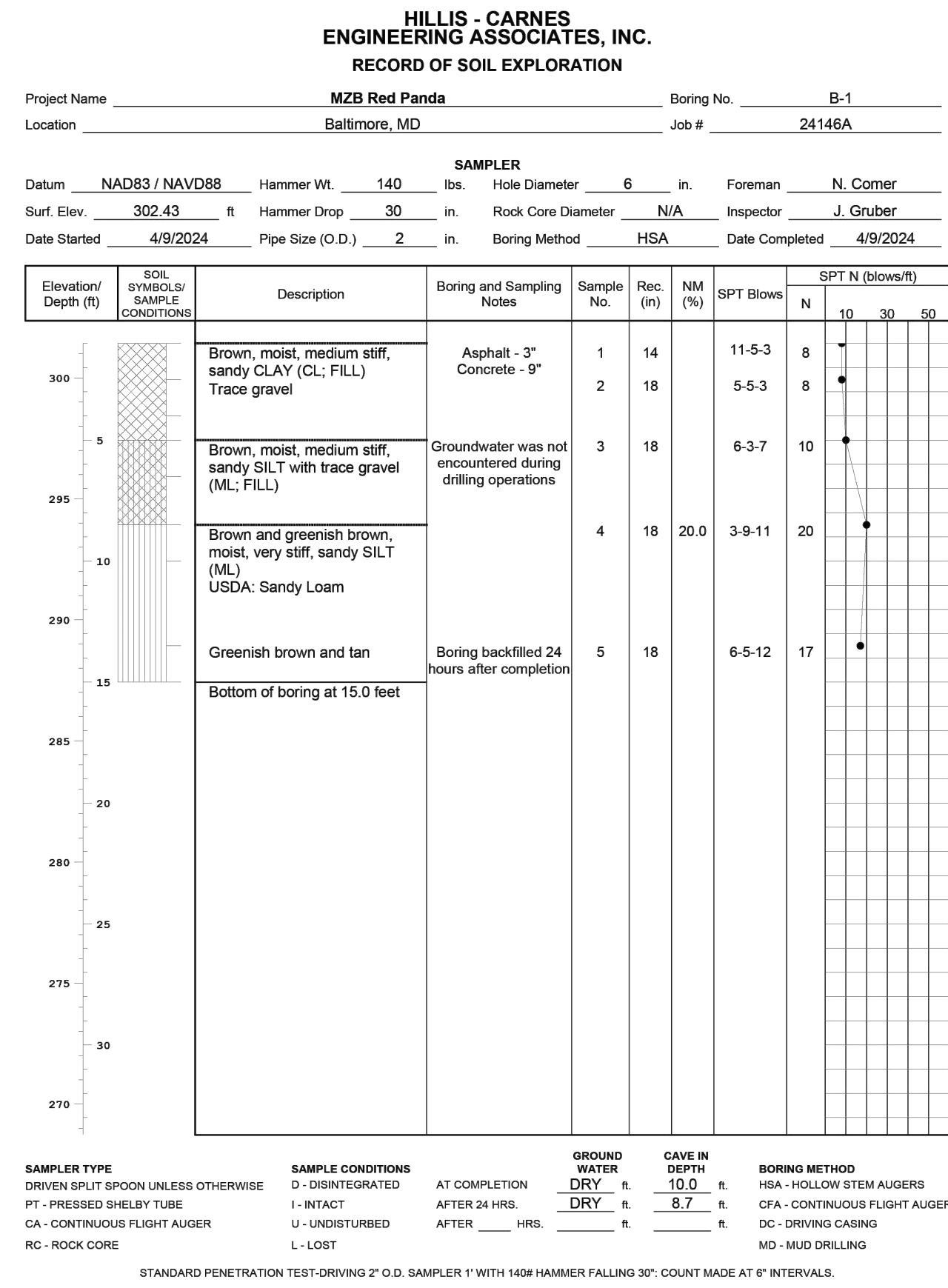
BORING TABLE				
BORING NO.	NORTHING	EASTING	APPROXIMATE DEPTH	EXISTING ELEVATION
SWM-1	603657.18	1412036.59	12 FT.	301.8
SWM-2	603671.11	1412059.54	12 FT.	300.0
W-1	603780.47	1412017.20	20 FT.	306.2
W-2	603787.17	1412032.81	20 FT.	306.3



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HORIZONTAL DATUM: NAD 83(2011)
 VERTICAL DATUM: NAVD 88

BCNR # 11545



HORIZONTAL DATUM: NAD 83(2011)
VERTICAL DATUM: NAVD 88

BCNR # 11545



PROJECT TEAM:

ARCHITECT:
BUELL KRATZER POWELL, P.C.
1525 LOCUST STREET
PHILADELPHIA, PA 19102
T: 215.557.6509

CIVIL ENGINEER:
CARROLL ENGINEERING, INC
215 SCHILLING CIRCLE, STE 102
HUNT VALLEY, MD 21031
T: 410.785.7423

LANDSCAPE ARCHITECT:
ROBINSON ANDERSON SUMMERS
28 WEST STATE STREET
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STRUCTURAL ENGINEER:
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2225 EAST MURRAY HOLLADAY RD
SALT LAKE CITY, UT 84117
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KOVACS, WHITNEY & ASSOCIATES
190 WEST OSTEND ST, STE 300
BALTIMORE, MD 21230
T: 410.244.7191

CLIENT:
MARYLAND ZOO
THE MARYLAND ZOO IN BALTIMORE
1 SAFARI PLACE
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RED PANDA
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SEAL:

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 14446, EXPIRATION DATE 9/25/25.

DATE: JANUARY 14, 2025
PROJECT NO: 2023-10.04
DRAWN BY: MJE
CHECKED BY: CMS
SUBMISSION DATE: DATE
BID SET: 01/14/2025
REVISION: DATE

DRAWING TITLE:
BORING LOGS

DRAWING NO:
C111

ALL WORK SHALL CONFORM TO CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES, UTILITIES, AND INCIDENTAL STRUCTURES 2006, AND SUPPLEMENTARY SPECIFICATIONS IN THE CONTRACT DOCUMENTS.



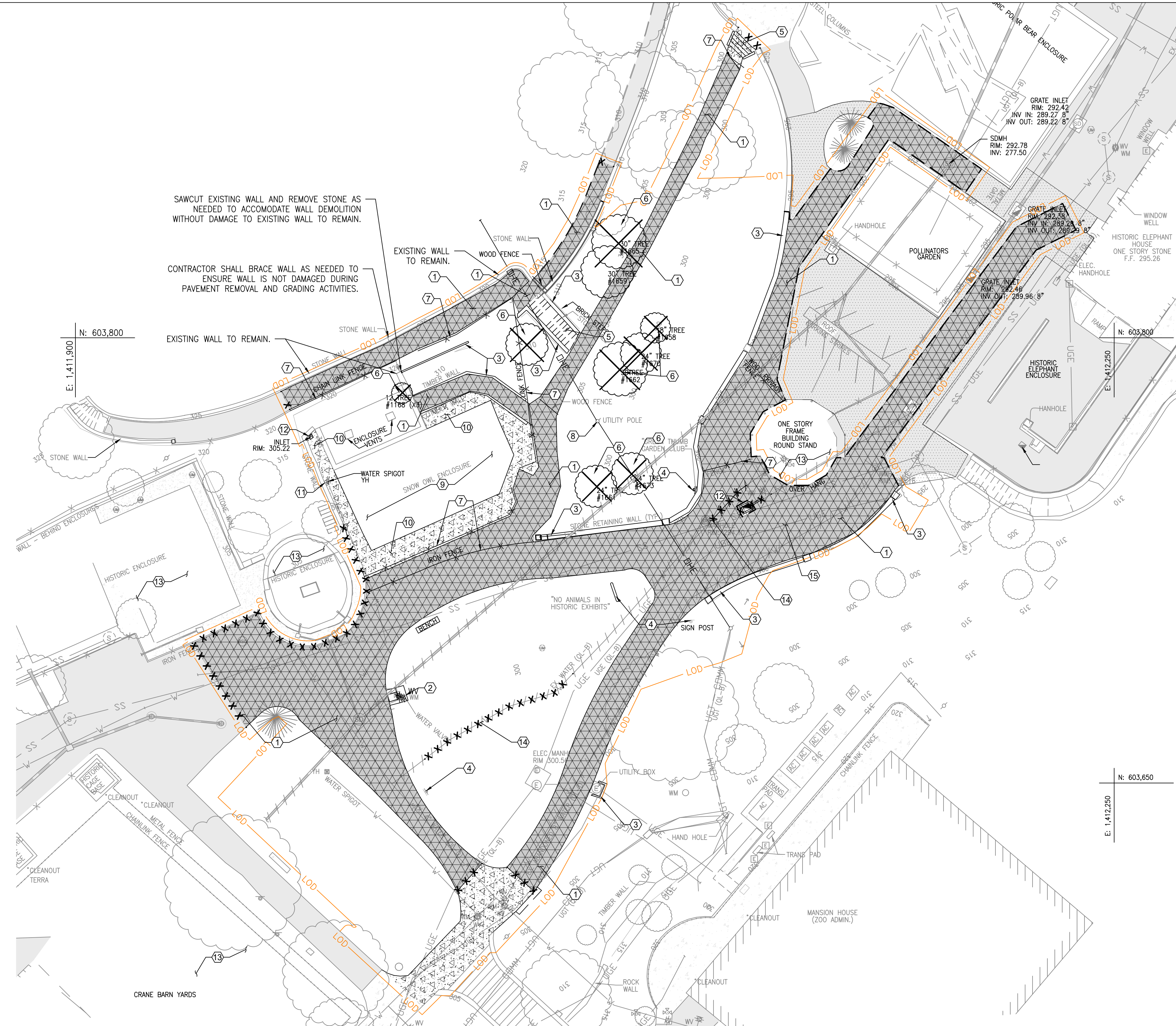
DEMOLITION LIST:

- 1 ASPHALT AND ASSOCIATED BASE MATERIAL TO BE SAWCUT AND REMOVED/DISPOSED OF.
- 2 CONCRETE VAULT AND LID AND ASSOCIATED SUB-BASE TO BE REMOVED/DISPOSED OF. ANY VALVES OR UTILITY APPURTENANCES SHALL BE REMOVED. WATER PIPES SHALL BE CUT AND PERMANENTLY CAPPED. SLUMP DRAINS SHALL BE FILLED WITH FLOWABLE FILL AND ABANDONED.
- 3 RETAINING WALL, FOUNDATIONS AND BASE MATERIAL TO BE DEMOLISHED.
- 4 SIGN TO BE REMOVED AND SALVAGED FOR REUSE OR RETURNED TO THE OWNER.
- 5 STAIRS AND ASSOCIATED FOUNDATIONS AND BASE MATERIAL TO BE SAWCUT AND REMOVED/DISPOSED OF.
- 6 TREE TO BE REMOVED.
- 7 FENCE TO BE DEMOLISHED.
- 8 UTILITY POLE AND OVERHEAD WIRE TO BE REMOVED COORDINATE WITH UTILITY PROVIDER FOR SERVICE DISCONNECTION. SEE SITE COMMUNICATIONS PLAN FOR ADDITIONAL INFORMATION.
- 9 SNOW OWL ENCLOSURE TO BE DEMOLISHED AND DISPOSED OF. SEE ARCHITECTURAL PLAN FOR ADDITIONAL INFORMATION AND DETAIL.
- 10 CONCRETE PAVEMENT AND BASE MATERIAL TO BE REMOVED/DISPOSED OF.
- 11 REMOVE EXISTING YARD HYDRANT. TEMPORARILY CAP SUPPLY PIPE FOR FUTURE CONNECTION OF A PROPOSED YARD HYDRANT.
- 12 REMOVE/DISPOSE OF EXISTING STORM DRAIN STRUCTURE AND PIPE TO ACCOMMODATE UTILITY INSTALLATION. PERMANENTLY CAP STORM DRAIN PIPE.
- 13 EXISTING BUILDING/EXHIBIT TO REMAIN. PROVIDE NECESSARY PROTECTION TO PREVENT ANY DAMAGE TO EXISTING STRUCTURE.
- 14 REMOVE PORTION OF ABANDONED WATER TO ACCOMMODATE UTILITY INSTALLATION. PERMANENTLY CAP ABANDONED PIPE.
- 15 RELOCATED UNDERGROUND ELECTRIC AS NEEDED TO ACCOMMODATE UTILITY INSTALLATION.

DEMOLITION NOTES:

1. CONTRACTOR SHALL CONTACT THE OWNER AND DEVELOPER 72 HOURS PRIOR TO COMMENCING ANY WORK.
2. CONTRACTOR TO COORDINATE WITH MISS UTILITY, BALTIMORE COUNTY DEPARTMENT OF PROPERTY MANAGEMENT, AND A PRIVATE UTILITY LOCATOR COMPANY PRIOR TO COMMENCING ANY WORK. THE CONTRACTOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION.
3. CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO AND DURING CONSTRUCTION/DEMOLITION AND NOTIFY THE OWNER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS.
4. ALL UTILITY FRAMES AND COVERS TO REMAIN WITHIN THE PROJECT AREA SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET NEW PAVEMENT OR GROUND ELEVATION. THE CONTRACTOR SHALL MAKE, CHECK, AND BE RESPONSIBLE FOR ALL MEASUREMENTS AND DIMENSIONS NECESSARY FOR THE PROPER CONSTRUCTION OF AND THE PREVENTION OF MISFITTINGS IN THE WORK. VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES BEFORE STARTING CONSTRUCTION IN EACH AREA.
5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OR DEMOLITION IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN.
6. CONTRACTOR SHALL STABILIZE ALL UNINTENTIONALLY DISTURBED AREAS OUTSIDE OF THE L.O.D. BY THE END OF THE SAME WORKING DAY.
7. CONTRACTOR SHALL DISPOSE OF ALL DEMOLISHED AND DELETERIOUS MATERIALS NOT TO BE SALVAGED FOR REUSE ON SITE IN A SAFE AND LEGAL MANNER.
8. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITY STRUCTURES TO REMAIN DURING DEMOLITION AND CONSTRUCTION ACTIVITIES AND TO PREVENT DEBRIS, SEDIMENT, OR WATER FROM ENTERING THE STRUCTURES.
9. CONTRACTOR SHALL PROTECT ALL FACILITIES AND UTILITIES TO REMAIN FROM DAMAGE WHETHER SHOWN HEREON OR NOT.
10. CONTRACTOR TO REMOVE ALL POLES, FOUNDATIONS, TIES, MANHOLES, MANHOLE COVERS, METERS/VAULTS, HAND BOXES, ETC. ASSOCIATED WITH EXISTING UTILITIES TO BE REMOVED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL EXISTING POLES TO REMAIN.
11. ALL PAVEMENT SHALL BE SAWCUT PRIOR TO REMOVAL WHERE EXISTING CURB IS BEING REMOVED AND/ OR THERE IS ADJOINING PAVEMENT TO REMAIN. ALL SAWCUTS ARE TO BE NEAT, CLEAN AND STRAIGHT.
12. THE CONTRACTOR SHALL RESTORE ANY AND ALL AREAS DISTURBED DURING CONSTRUCTION TO ORIGINAL CONDITION OR BETTER.
13. ALL EXISTING PAINT MARKINGS ADJACENT TO THE PROJECT AREA WHICH BECOME FADED OR OBLISCURED DUE TO CONSTRUCTION ACTIVITY SHALL BE REPAINTED OR RESTORED AT NO ADDITIONAL COST TO THE OWNER.
14. CONTRACTOR SHALL USE CAUTION WHEN WORKING AROUND EXISTING TREES TO REMAIN SO AS TO NOT DAMAGE THE TREES, TREE BRANCHES OR TREE ROOT SYSTEM.
15. CONTRACTOR SHALL INSTALL ORANGE PLASTIC MESH TREE PROTECTION FENCE (TPF) PRIOR TO ANY DEMOLITION ACTIVITIES, UNLESS OTHERWISE NOTED.
16. ALL ABANDONED UTILITIES SHALL BE PERMANENTLY CAPPED IN ACCORDANCE WITH UTILITY OWNERS REQUIREMENTS UNLESS OTHERWISE NOTED.
17. CONTRACTOR SHALL COORDINATE WITH OWNER AND UTILITY PROVIDER TO MINIMIZE DURATION OF UTILITY OUTAGES.
18. CONTRACTOR SHALL MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS TO AND AROUND ADJACENT AREAS AS DIRECTED BY THE OWNER DURING CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL FURNISH VEHICULAR AND PEDESTRIAN TRAFFIC PROTECTION IN ACCORDANCE WITH MUTCD LATEST VERSION.
19. CONTRACTOR SHALL UTILIZE SIX (6) FOOT TALL CHAIN LINK CONSTRUCTION FENCE AROUND ALL ACTIVE WORK AREAS. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND WARNING MEASURES TO PROTECT PEDESTRIANS FROM CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL FURNISH VISUAL SCREENS ON THE FENCE AS DIRECTED BY THE OWNER.
20. CONTRACTORS SHALL SUBMIT TO BALTIMORE CITY FOR ALL APPLICABLE PERMITS.
21. CONTRACTOR SHALL COORDINATE SITE ACCESS, CONTRACTOR PARKING, AND CONSTRUCTION MATERIAL STAGING AND STORAGE WITH THE OWNER.
22. ALL TREE REMOVAL SHALL INCLUDE GRINDING AND GRUBBING OF STUMPS.

HORIZONTAL DATUM: NAD 83(2011)
VERTICAL DATUM: NAVD 88



SAWCUT EXISTING WALL AND REMOVE STONE AS NEEDED TO ACCOMMODATE WALL DEMOLITION WITHOUT DAMAGE TO EXISTING WALL TO REMAIN.

CONTRACTOR SHALL BRACE WALL AS NEEDED TO ENSURE WALL IS NOT DAMAGED DURING PAVEMENT REMOVAL AND GRADING ACTIVITIES.

EXISTING WALL TO REMAIN.

EXISTING WALL TO REMAIN.

EXISTING WALL TO REMAIN.

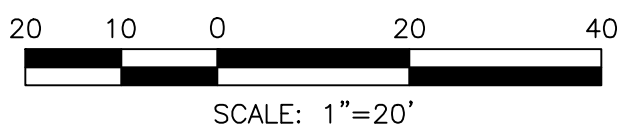
OWNER / DEVELOPER / APPLICANT:
MARYLAND ZOO IN BALTIMORE
1876 MANSION HOUSE DRIVE
BALTIMORE MD 21217
CONTACT: MR. KARL KRANZ
PHONE: 443-552-3350

LEGEND

- 100 EXISTING BUILDING
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING CURB
- EXISTING ROADWAY
- EXISTING PAVEMENT
- EXISTING ASPHALT PAVING
- EXISTING CONCRETE PAVING
- EXISTING FENCELINE
- EXISTING SIGN
- EXISTING ELECTRIC HANDBOX
- EXISTING ELECTRIC MANHOLE
- EXISTING OVERHEAD ELECTRIC
- EXISTING ELECTRIC
- EXISTING SANITARY LINE
- EXISTING SANITARY MANHOLE
- EXISTING STORMDRAIN LINE
- EXISTING STORMDRAIN INLET
- EXISTING STORMDRAIN MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER VALVE
- EXISTING WATER MANHOLE
- EXISTING SOILS
- EXISTING TREELINE
- EXISTING DECIDUOUS TREE
- EXISTING EVERGREEN TREE
- EXISTING WATER METER
- EXISTING TELEPHONE PEDESTAL
- EXISTING WATER LINE
- EXISTING FIRE HYDRANT
- EXISTING COMMUNICATION
- UTILITY MAHMHOLE
- EXISTING FLAGPOLE
- EXISTING SHRUB
- EXISTING LIGHT POLE
- EXISTING BRICK PAVING
- EXISTING GRAVEL
- EXISTING UNDERGROUND ELECTRIC
- EXISTING TELEPHONE
- 1.5" ASPHALT MILL
- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED
- LIMIT OF SAWCUT/EXCAVATION
- TREE TO BE REMOVED
- LIMIT OF DISTURBANCE

GENERAL NOTES:

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DEMOLITION PLAN

SCALE: 1"=20'

SEE LANDSCAPE PLAN L100 FOR ADDITIONAL DEMOLITION INFORMATION.

BCNR # 11545



PROJECT TEAM:

ARCHITECT:
BUELL KRATZER POWELL, P.C.
1525 LOCUST STREET
PHILADELPHIA, PA 19102
T: 215.557.6509

CIVIL ENGINEER:
CARROLL ENGINEERING, INC
215 SCHILLING CIRCLE, STE 102
HUNT VALLEY, MD 21081
T: 410.785.7423

LANDSCAPE ARCHITECT:
ROBINSON ANDERSON SUMMERS
28 WEST STATE STREET
MEDIA, PA 19063
T: 302.888.1544

STRUCTURAL ENGINEER:
STRUCTURAL DESIGN STUDIO, INC
2225 EAST MURRAY HOLLADAY RD
SALT LAKE CITY, UT 84117
T: 801.274.3950

MEP ENGINEER:
KOVACS, WHITNEY & ASSOCIATES
190 WEST OSTEND ST, STE 300
BALTIMORE, MD 21230
T: 410.244.7191

CLIENT:
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DATE:	JANUARY 14, 2025
PROJECT NO:	2023-10-04
DRAWN BY:	MJE
CHECKED BY:	CMS
SUBMISSION DATE:	
BID SET:	01/14/2025
REVISION:	DATE

DRAWING TITLE:
DEMOLITION PLAN

DRAWING NO:
C120



PROJECT TEAM:

ARCHITECT:
 BUELL KRATZER POWELL, P.C.
 1525 LOCUST STREET
 PHILADELPHIA, PA 19102
 T: 215.557.6509

CIVIL ENGINEER:
 CARROLL ENGINEERING, INC
 215 SCHILLING CIRCLE, STE 102
 HUNT VALLEY, MD 21031
 T: 410.785.7423

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 MEDIA, PA 19063
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STRUCTURAL ENGINEER:
 STRUCTURAL DESIGN STUDIO, INC
 2225 EAST MURRAY HOLLADAY RD
 SALT LAKE CITY, UT 84117
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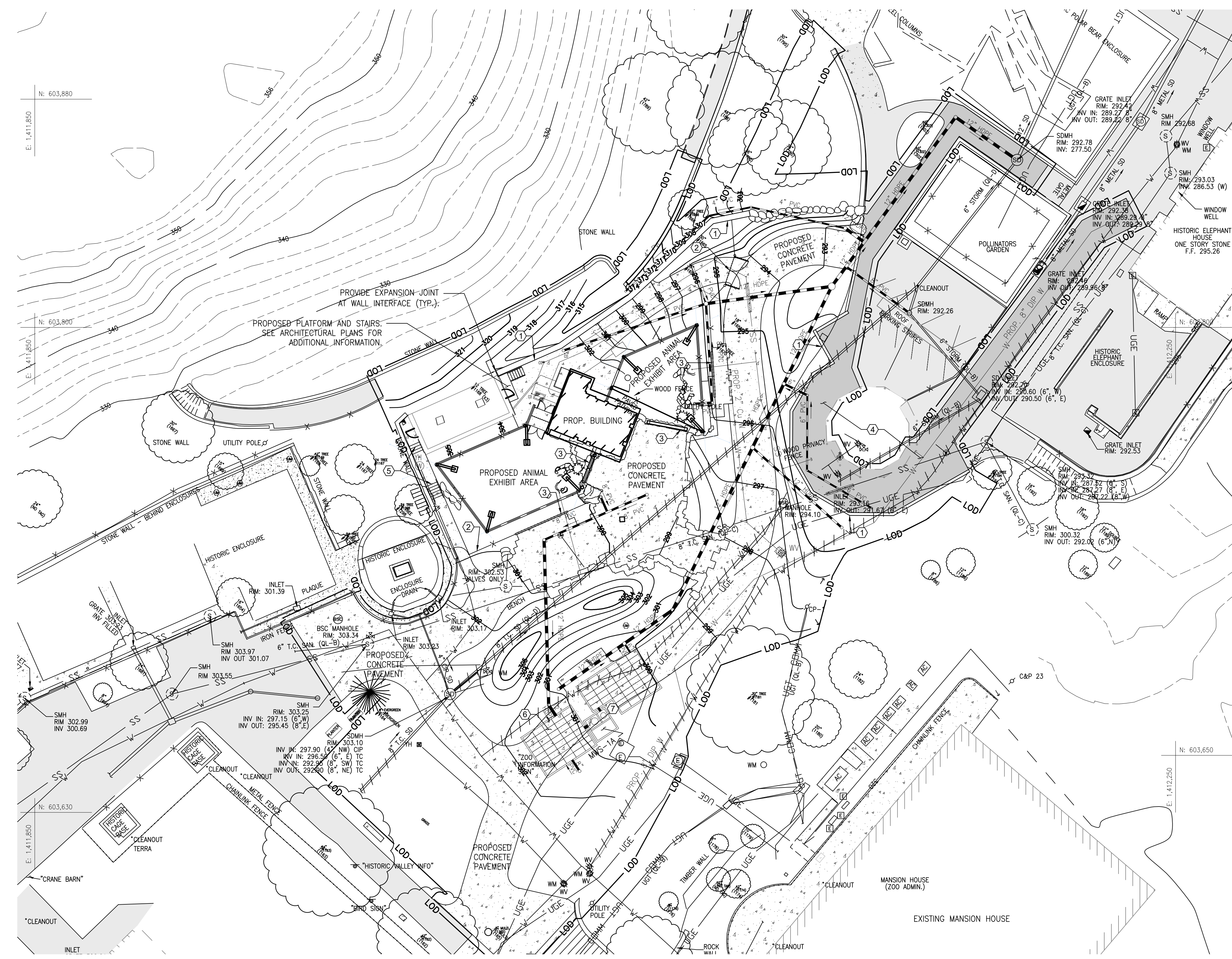
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DRAWN BY:	MJE
CHECKED BY:	CMS
SUBMISSION:	DATE
BID SET:	01/14/2025
REVISION:	DATE

DRAWING TITLE:
 PROPOSED
 CONDITIONS
 PLAN

DRAWING NO:
C200



- OWNER / DEVELOPER / APPLICANT:**
 MARYLAND ZOO IN BALTIMORE
 1876 MANSION HOUSE DRIVE
 BALTIMORE MD 21217
 CONTACT: MR. KARL KRANZ
 PHONE: 443-552-3350
- LEGEND**
- PROPOSED BUILDING
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED ASPHALT
 - PROPOSED CURB
 - PROPOSED CONCRETE WALK
 - PROPOSED FENCELINE
 - LIMIT OF DISTURBANCE
 - PROPOSED UNDERGROUND ELECTRIC
 - PROPOSED SANITARY LINE
 - PROPOSED SANITARY CLEANOUT
 - PROPOSED STORMDRAIN LINE
 - PROPOSED STORMDRAIN MANHOLE
 - PROPOSED WATER LINE
 - PROPOSED SMALL SECTIONAL VAULT
 - PROPOSED WATER VALVE

- SITE FEATURE LIST:**
- ① PROPOSED RETAINING WALL.
 - ② PROPOSED FENCE AND GATE. SEE LANDSCAPE PLAN FOR ADDITIONAL INFORMATION AND DETAILS.
 - ③ PROPOSED VIEWING AREAS. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION AND DETAILS.
 - ④ PROPOSED ASPHALT REPAIR. PROTECT EXISTING BUILDING FROM DAMAGE.
 - ⑤ PROPOSED STAIRS.
 - ⑥ PROPOSED UNDERGROUND STORM WATER STORAGE CHAMBERS.
 - ⑦ PROPOSED MODULAR WETLAND STORMWATER MANAGEMENT STRUCTURE.

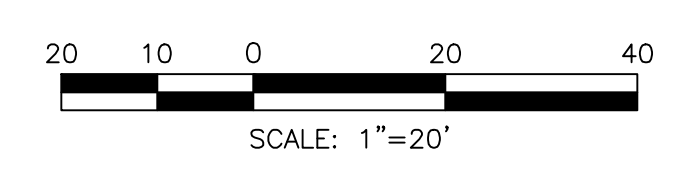
- CONSTRUCTION NOTES:**
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 2. CONTRACTOR TO COORDINATE WITH MISS UTILITY, BALTIMORE COUNTY PUBLIC SCHOOLS, AND A PRIVATE UTILITY LOCATOR COMPANY PRIOR TO COMMENCING ANY WORK. THE CONTRACTOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION.
 3. CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO AND DURING CONSTRUCTION/DEMOLITION AND NOTIFY THE OWNER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS.
 4. ALL UTILITY FRAMES AND COVERS TO REMAIN WITHIN THE PROJECT AREA SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET NEW PAVEMENT OR GROUND ELEVATION. THE CONTRACTOR SHALL MAKE, CHECK, AND BE RESPONSIBLE FOR ALL MEASUREMENTS AND DIMENSIONS NECESSARY FOR THE PROPER CONSTRUCTION OF AND THE PREVENTION OF MISFITTINGS IN THE WORK. VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES BEFORE STARTING CONSTRUCTION IN EACH AREA.
 5. CONTRACTOR SHALL STABILIZE ALL UNINTENTIONALLY DISTURBED AREAS OUTSIDE OF THE L.O.D. BY THE END OF THE SAME WORKING DAY.
 6. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITY STRUCTURES TO REMAIN DURING DEMOLITION AND CONSTRUCTION ACTIVITIES AND TO PREVENT DEBRIS, SEDIMENT, OR WATER FROM ENTERING THE STRUCTURES.
 7. CONTRACTOR SHALL PROTECT ALL FACILITIES AND UTILITIES TO REMAIN FROM DAMAGE WHETHER SHOWN HEREON OR NOT.
 8. CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL EXISTING POLES TO REMAIN.
 9. THE CONTRACTOR SHALL RESTORE ANY AND ALL AREAS DISTURBED DURING CONSTRUCTION TO ORIGINAL CONDITION OR BETTER.
 10. ALL EXISTING PAINT MARKINGS ADJACENT TO THE PROJECT AREA WHICH BECAME FADED OR OBTUSCURED DUE TO CONSTRUCTION ACTIVITY SHALL BE REPAINTED OR RESTORED AT NO ADDITIONAL COST TO THE OWNER.
 11. CONTRACTOR SHALL USE CAUTION WHEN WORKING AROUND EXISTING TREES TO REMAIN SO AS TO NOT DAMAGE THE TREES, TREE BRANCHES OR TREE ROOT SYSTEM.
 12. CONTRACTOR SHALL INSTALL ORANGE PLASTIC MESH TREE PROTECTION FENCE (TPF) PRIOR TO ANY CONSTRUCTION ACTIVITIES.
 13. CONTRACTOR SHALL COORDINATE WITH OWNER AND UTILITY PROVIDER TO MINIMIZE DURATION OF UTILITY OUTAGES.
 14. CONTRACTOR SHALL MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS TO AND AROUND ADJACENT AREAS AS DIRECTED BY THE OWNER DURING CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL FURNISH VEHICULAR AND PEDESTRIAN TRAFFIC PROTECTION IN ACCORDANCE WITH MUTCD LATEST VERSION.
 15. CONTRACTOR SHALL UTILIZE SIX (6) FOOT TALL CHAIN LINK CONSTRUCTION FENCE AROUND ALL ACTIVE WORK AREAS. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND WARNING MEASURES TO PROTECT PEDESTRIANS FROM CONSTRUCTION ACTIVITIES. CONTRACTORS SHALL SUBMIT TO BALTIMORE CITY FOR ALL APPLICABLE PERMITS.

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HORIZONTAL DATUM: NAD 83(2011)
 VERTICAL DATUM: NAVD 88

PROPOSED CONDITIONS PLAN
 SCALE: 1"=20'

SEE LANDSCAPE PLANS L300 AND L310 FOR CURB LAYOUT AND ELEVATIONS.



BCNR # 11545



PROJECT TEAM:

ARCHITECT:
 BUELL KRATZER POWELL, P.C.
 1525 LOCUST STREET
 PHILADELPHIA, PA 19102
 T: 215.557.6509

CIVIL ENGINEER:
 CARROLL ENGINEERING, INC
 215 SCHILLING CIRCLE, STE 102
 HUNT VALLEY, MD 21031
 T: 410.785.7423

LANDSCAPE ARCHITECT:
 ROBINSON ANDERSON SUMMERS
 28 WEST STATE STREET
 MEDIA, PA 19063
 T: 302.888.1544

STRUCTURAL ENGINEER:
 STRUCTURAL DESIGN STUDIO, INC
 2225 EAST MURRAY HOLLADAY RD
 SALT LAKE CITY, UT 84117
 T: 801.274.3950

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 190 WEST OSTEND ST, STE 300
 BALTIMORE, MD 21230
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CLIENT:
MARYLAND ZOO
 THE MARYLAND ZOO IN BALTIMORE
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 BALTIMORE, MD 21217

RED PANDA
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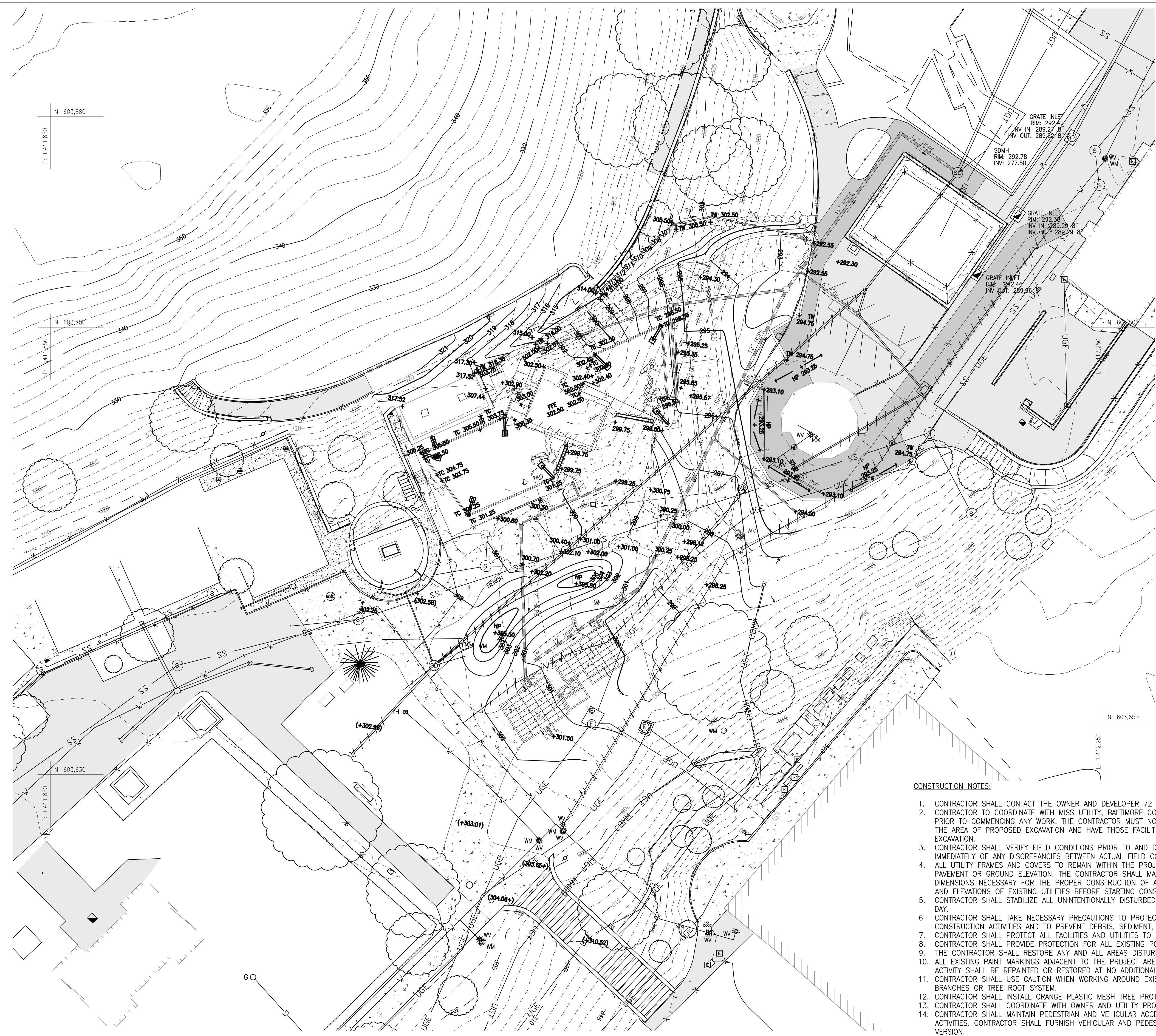
SEAL:

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 14446, EXPIRATION DATE 9/25/25.

DATE:	JANUARY 14, 2025
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DRAWN BY:	MJE
CHECKED BY:	CMS
SUBMISSION:	DATE
BID SET:	01/14/2025
REVISION:	DATE

DRAWING TITLE:
 PROPOSED
 GRADING
 PLAN

DRAWING NO:
C210



OWNER / DEVELOPER / APPLICANT:
 MARYLAND ZOO IN BALTIMORE
 1876 MANSION HOUSE DRIVE
 BALTIMORE MD 21217
 CONTACT: MR. KARL KRANZ
 PHONE: 443-552-3350

- LEGEND**
- PROPOSED BUILDING
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED ASPHALT
 - PROPOSED CURB
 - PROPOSED CONCRETE WALK
 - PROPOSED FENCELINE
 - LIMIT OF DISTURBANCE
 - PROPOSED UNDERGROUND ELECTRIC
 - PROPOSED SANITARY LINE
 - PROPOSED SANITARY CLEANOUT
 - PROPOSED STORMDRAIN LINE
 - PROPOSED STORMDRAIN MANHOLE
 - PROPOSED WATER LINE
 - PROPOSED SMALL SECTIONAL VAULT
 - PROPOSED WATER VALVE
 - PROPOSED SPOT ELEVATION
 - TOP OF CURB
 - BOTTOM OF CURB
 - TOP OF WALL

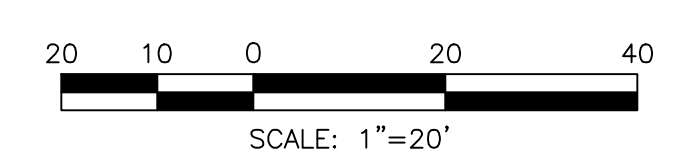
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HORIZONTAL DATUM: NAD 83(2011)
 VERTICAL DATUM: NAVD 88

PROPOSED GRADING PLAN
 SCALE: 1"=20'

SEE LANDSCAPE PLANS L300 AND L310 FOR CURB LAYOUT AND ELEVATIONS.



BCNR # 11545

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 1525 LOCUST STREET
 PHILADELPHIA, PA 19102
 T: 215.557.6509
CIVIL ENGINEER:
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 215 SCHILLING CIRCLE, STE 102
 HUNT VALLEY, MD 21031
 T: 410.785.7423
LANDSCAPE ARCHITECT:
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 28 WEST STATE STREET
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DRAWING TITLE:
 DETAIL
 REFERENCE
 PLAN

DRAWING NO:
C300

OWNER / DEVELOPER / APPLICANT:
 MARYLAND ZOO IN BALTIMORE
 1876 MANSION HOUSE DRIVE
 BALTIMORE MD 21217
 CONTACT: MR. KARL KRANZ
 PHONE: 443-552-3350

- LEGEND**
- PROPOSED BUILDING
 - 100 PROPOSED MAJOR CONTOUR
 - 99 PROPOSED MINOR CONTOUR
 - PROPOSED ASPHALT
 - PROPOSED CURB
 - PROPOSED CONCRETE WALK
 - PROPOSED FENCELINE
 - LOD LIMIT OF DISTURBANCE
 - DETAIL NO. A
 - SHEET NO. C410 PROPOSED DETAIL REFERENCE



DETAIL REFERENCE PLAN
 SCALE: 1"=20'

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HORIZONTAL DATUM: NAD 83(2011)
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20 10 0 20 40
 SCALE: 1"=20'
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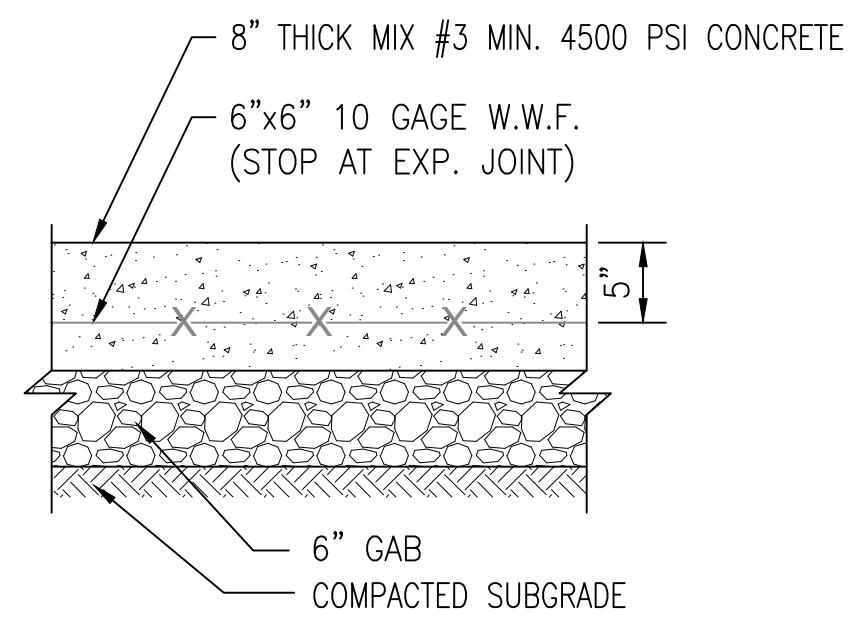
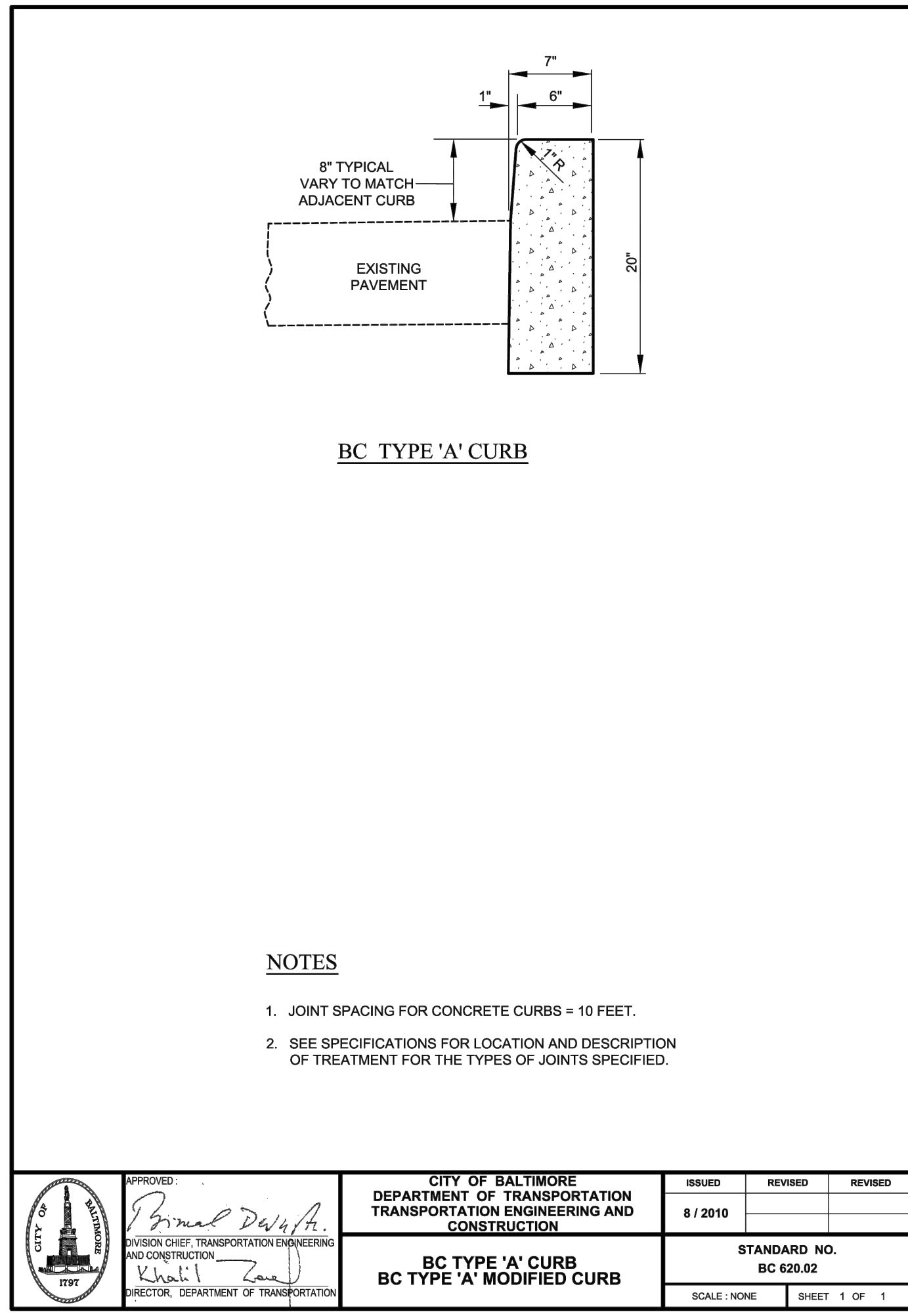
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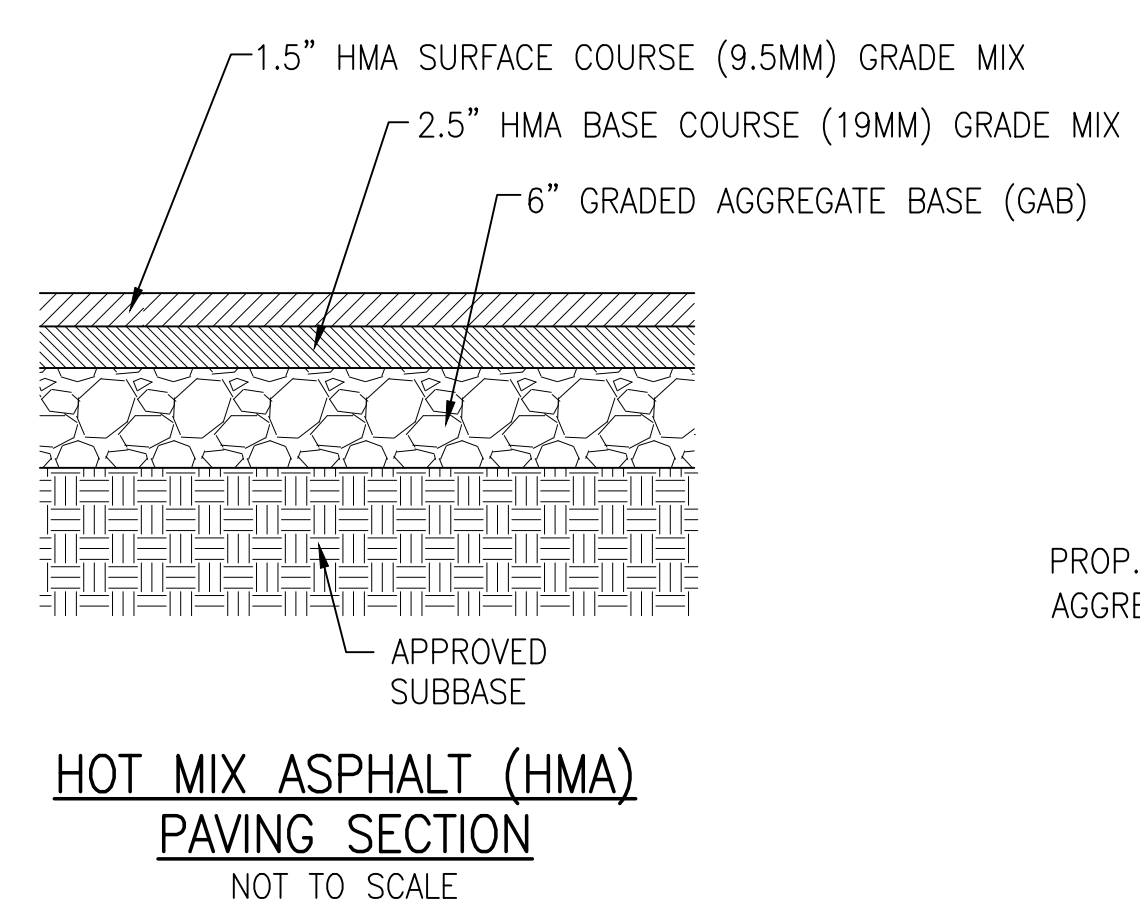
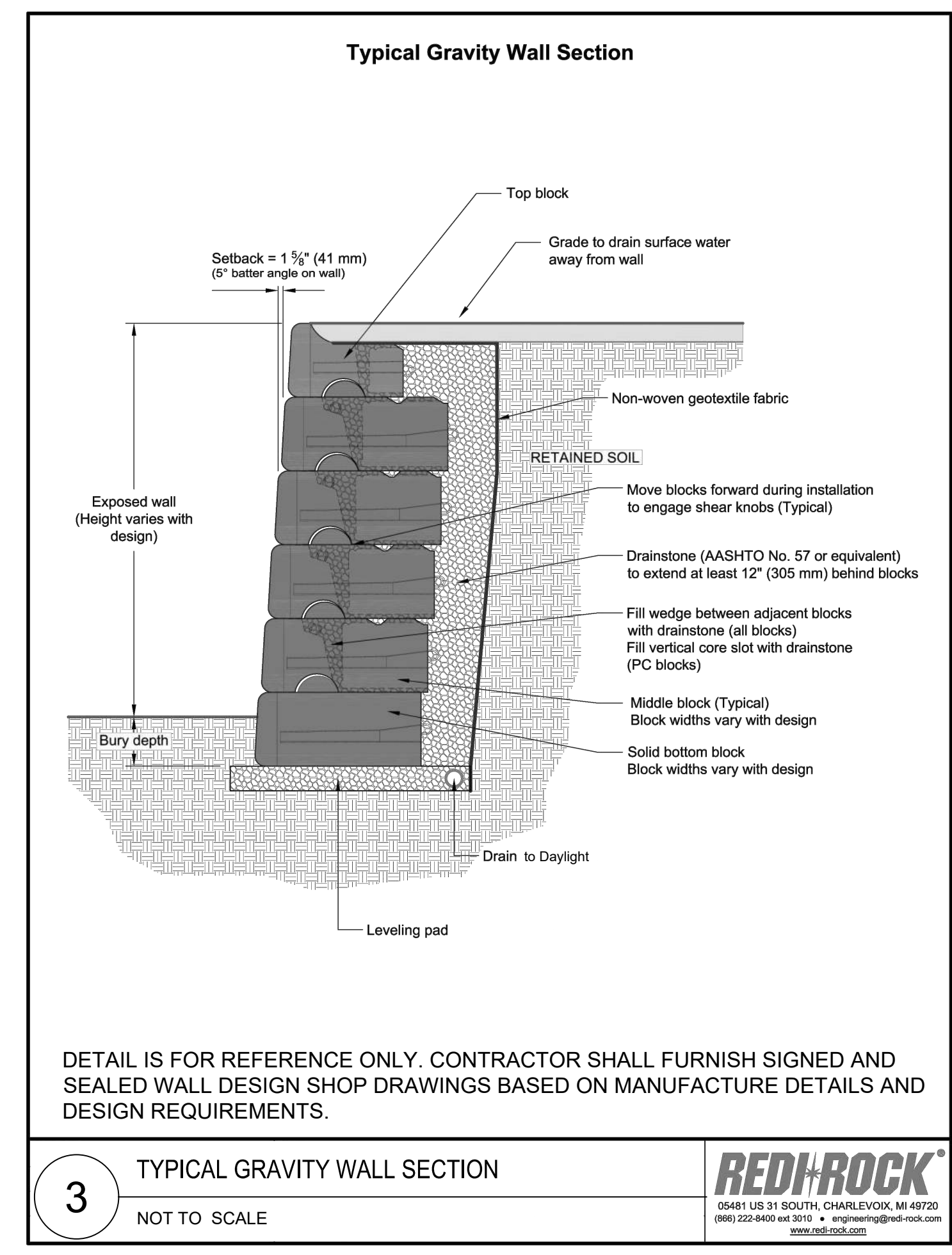
DRAWING TITLE:
 SITE DETAILS

DRAWING NO:
C310

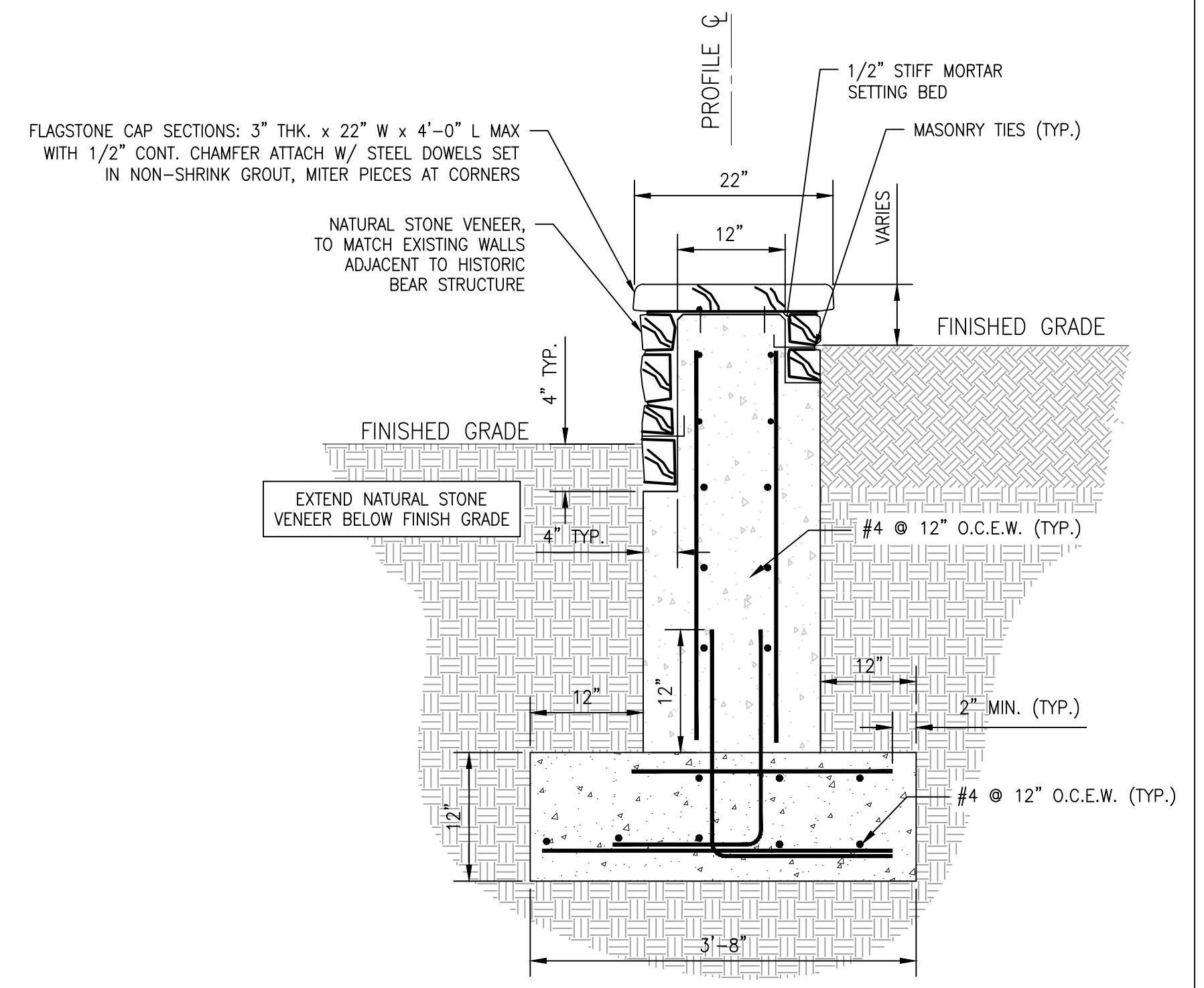
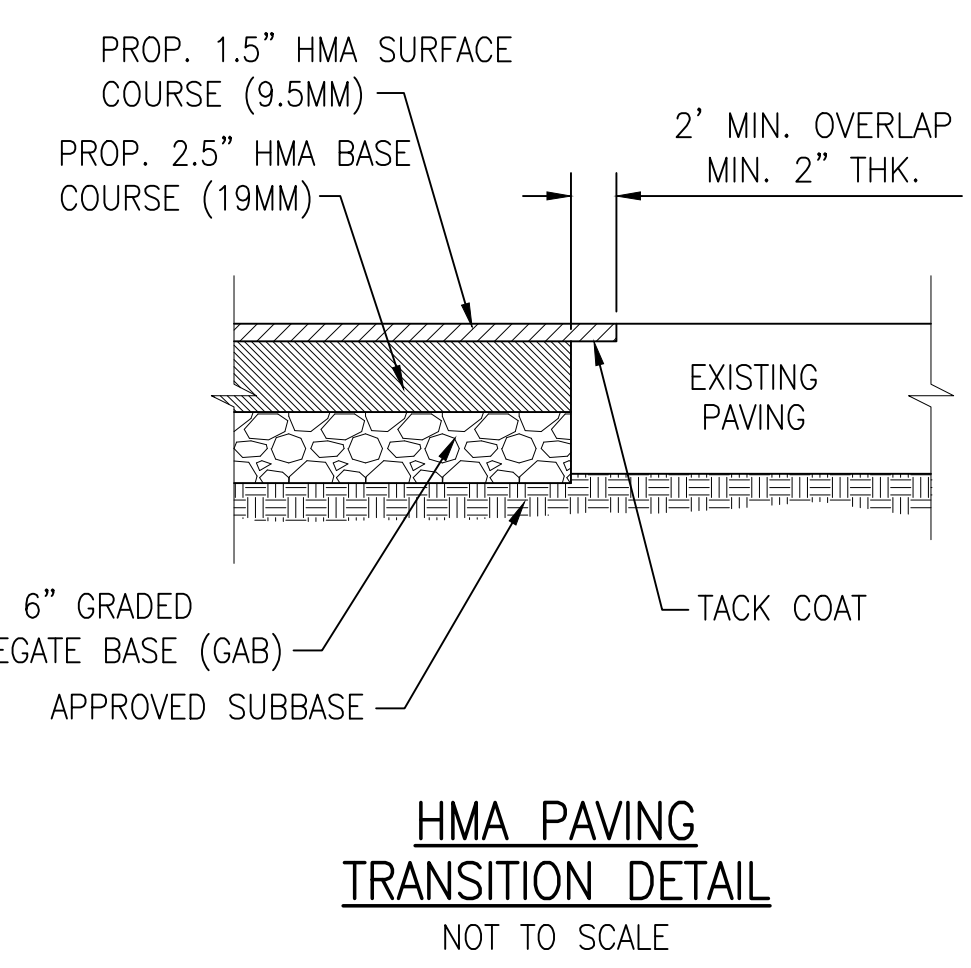


1 TYPE A CURB DETAIL
 NOT TO SCALE

2 HEAVY DUTY CONCRETE PAVING
 NOT TO SCALE



4 ASPHALT PAVING
 NOT TO SCALE



5 SEAT WALL DETAIL
 NOT TO SCALE **BCNR # 11545**



PROJECT TEAM:
ARCHITECT:
 BUELL KRATZER POWELL, P.C.
 1525 LOCUST STREET
 PHILADELPHIA, PA 19102
 T: 215.557.6509
CIVIL ENGINEER:
 CARROLL ENGINEERING, INC
 215 SCHILLING CIRCLE, STE 102
 HUNT VALLEY, MD 21031
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 MEDIA, PA 19063
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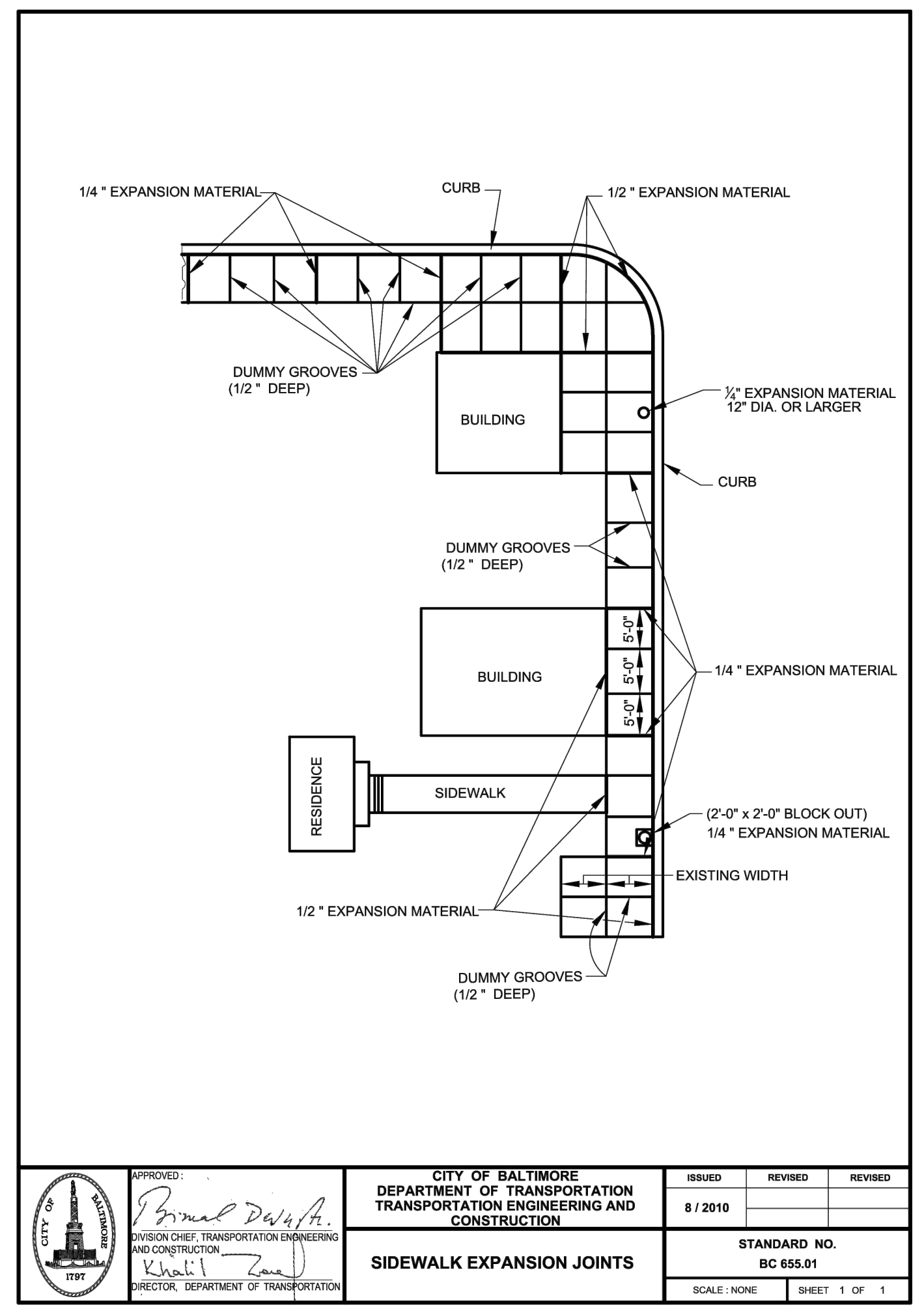
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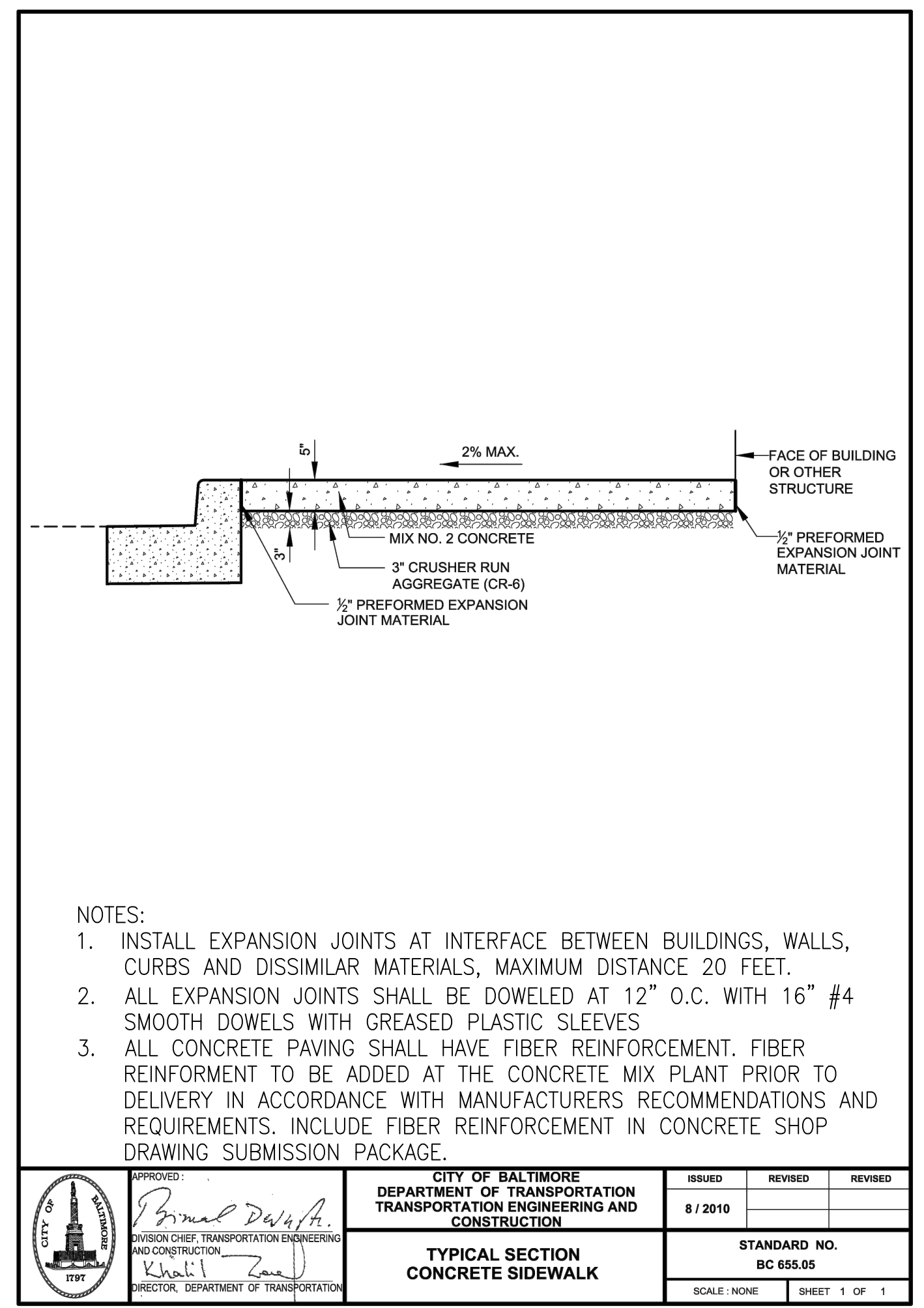
DRAWING TITLE:
 SITE DETAILS

DRAWING NO:
C311



APPROVED: <i>Baron D. Delfino</i> DIVISION CHIEF, TRANSPORTATION ENGINEERING AND CONSTRUCTION <i>Khalil I. Zaid</i> DIRECTOR, DEPARTMENT OF TRANSPORTATION	CITY OF BALTIMORE DEPARTMENT OF TRANSPORTATION TRANSPORTATION ENGINEERING AND CONSTRUCTION	ISSUED	REVISED	REVISED
		8 / 2010		
SIDEWALK EXPANSION JOINTS		STANDARD NO. BC 655.01		
SCALE: NONE		SHEET 1 OF 1		

1 SIDEWALK EXPANSION JOINTS
 BALTIMORE CITY STANDARD 655.01
 NOT TO SCALE



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		8 / 2010		
TYPICAL SECTION CONCRETE SIDEWALK		STANDARD NO. BC 655.05		
SCALE: NONE		SHEET 1 OF 1		

2 TYPICAL SECTION CONCRETE SIDEWALK
 BALTIMORE CITY STANDARD 655.05
 NOT TO SCALE

- NOTES:**
1. INSTALL EXPANSION JOINTS AT INTERFACE BETWEEN BUILDINGS, WALLS, CURBS AND DISSIMILAR MATERIALS, MAXIMUM DISTANCE 20 FEET.
 2. ALL EXPANSION JOINTS SHALL BE DOWELED AT 12" O.C. WITH 16" #4 SMOOTH DOWELS WITH GREASED PLASTIC SLEEVES
 3. ALL CONCRETE PAVING SHALL HAVE FIBER REINFORCEMENT. FIBER REINFORCEMENT TO BE ADDED AT THE CONCRETE MIX PLANT PRIOR TO DELIVERY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS. INCLUDE FIBER REINFORCEMENT IN CONCRETE SHOP DRAWING SUBMISSION PACKAGE.

BCNR # 11545

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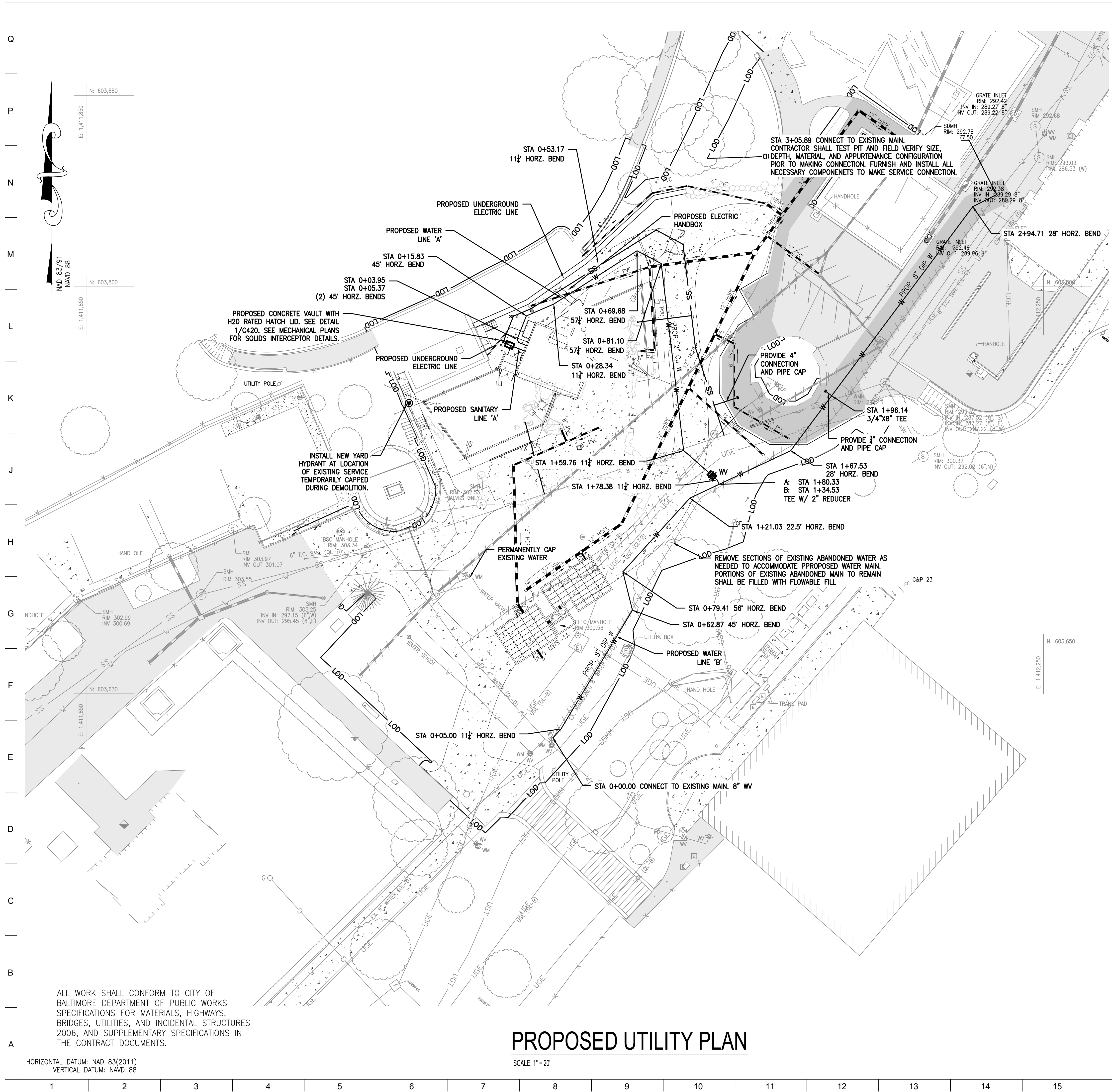
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 UTILITY
 PLAN

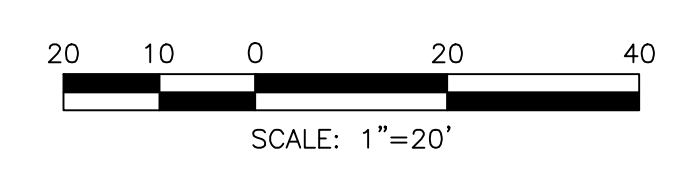
DRAWING NO:
C400



OWNER / DEVELOPER / APPLICANT:
 MARYLAND ZOO IN BALTIMORE
 1876 MANSION HOUSE DRIVE
 BALTIMORE MD 21217
 CONTACT: MR. KARL KRANZ
 PHONE: 443-552-3350

LEGEND:

- PROPOSED BUILDING
- 100 PROPOSED MAJOR CONTOUR
- 99 PROPOSED MINOR CONTOUR
- PROPOSED ASPHALT
- PROPOSED CURB
- PROPOSED CONCRETE WALK
- PROPOSED FENCELINE
- LOD LIMIT OF DISTURBANCE
- UGE UNDERGROUND ELECTRIC
- SS PROPOSED SANITARY LINE
- PROPOSED SANITARY CLEANOUT
- PROPOSED STORMDRAIN LINE
- PROPOSED STORMDRAIN MANHOLE
- PROPOSED WATER LINE
- PROPOSED SMALL SECTIONAL VAULT
- PROPOSED WATER VALVE



BCNR # 11545

ALL WORK SHALL CONFORM TO CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES, UTILITIES, AND INCIDENTAL STRUCTURES 2006, AND SUPPLEMENTARY SPECIFICATIONS IN THE CONTRACT DOCUMENTS.

HORIZONTAL DATUM: NAD 83(2011)
 VERTICAL DATUM: NAVD 88

PROPOSED UTILITY PLAN
 SCALE: 1" = 20'

Q
P
N
M
L
K
J
H
G
F
E
D
C
B
A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



PROJECT TEAM:

ARCHITECT:
 BUELL KRATZER POWELL, P.C.
 1525 LOCUST STREET
 PHILADELPHIA, PA 19102
 T: 215.557.6509

CIVIL ENGINEER:
 CARROLL ENGINEERING, INC
 215 SCHILLING CIRCLE, STE 102
 HUNT VALLEY, MD 21031
 T: 410.785.7423

LANDSCAPE ARCHITECT:
 ROBINSON ANDERSON SUMMERS
 28 WEST STATE STREET
 MEDIA, PA 19063
 T: 302.888.1544

STRUCTURAL ENGINEER:
 STRUCTURAL DESIGN STUDIO, INC
 2225 EAST MURRAY HOLLADAY RD
 SALT LAKE CITY, UT 84117
 T: 801.274.3950

MEP ENGINEER:
 KOVACS, WHITNEY & ASSOCIATES
 190 WEST OSTEND ST, STE 300
 BALTIMORE, MD 21230
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 BALTIMORE, MD 21217

RED PANDA
 THE MARYLAND ZOO
 IN BALTIMORE
 1 SAFARI PLACE
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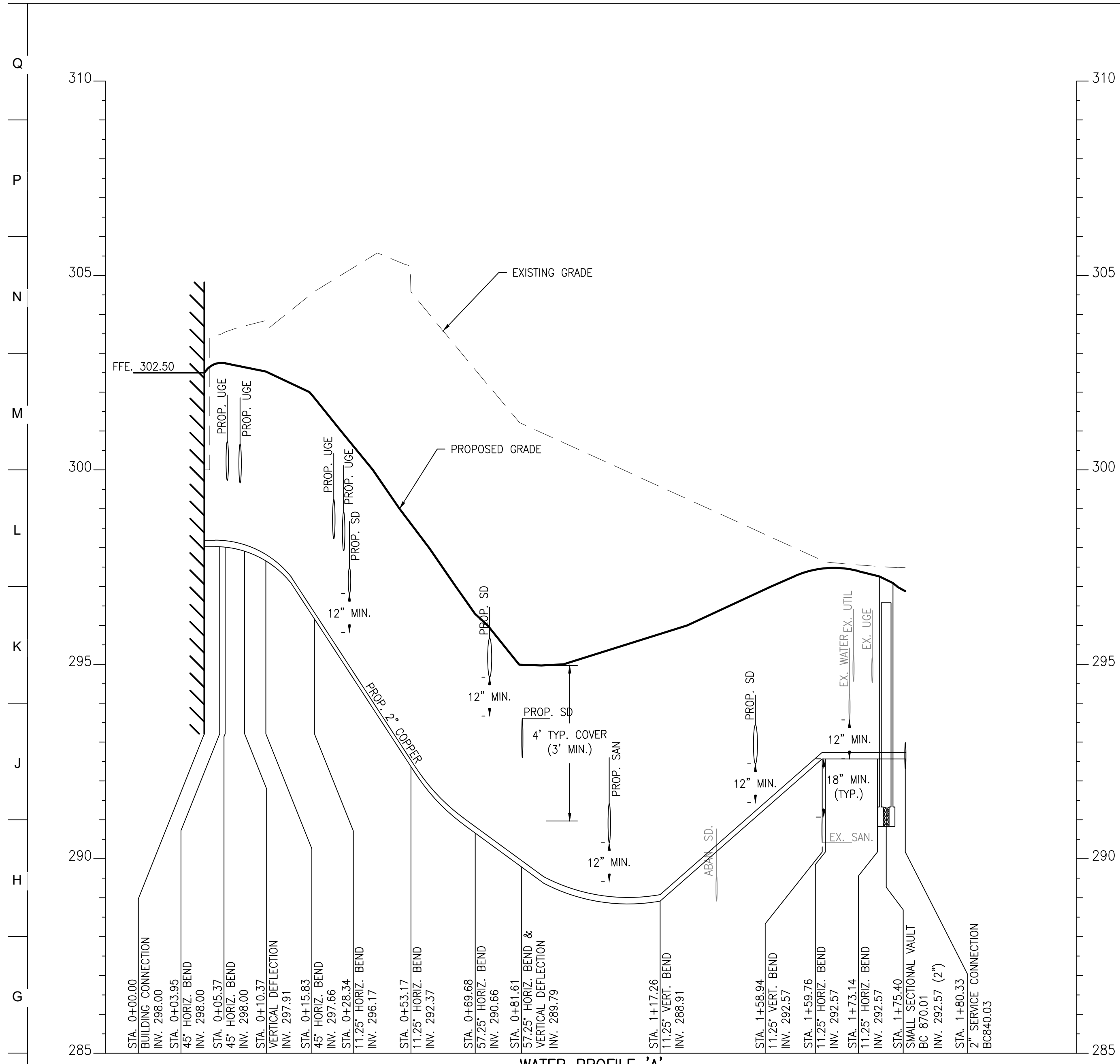
SEAL:

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 14446, EXPIRATION DATE 5/25/25.

DATE:	JANUARY 14, 2025
PROJECT NO:	2023-10.04
DRAWN BY:	MJE
CHECKED BY:	CMS
SUBMISSION:	DATE
BID SET:	01/14/2025
REVISION:	DATE

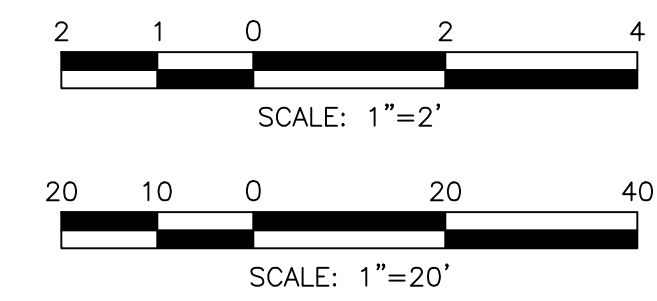
DRAWING TITLE:
 UTILITY
 PROFILES

DRAWING NO.:
C410



WATER PROFILE 'A'
 SCALE: HORIZ. 1"=20'
 VERT. 1"=2'

HORIZONTAL DATUM: NAD 83(2011)
 VERTICAL DATUM: NAVD 88



BCNR # 11545



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ARCHITECT:
 BUELL KRATZER POWELL, P.C.
 1525 LOCUST STREET
 PHILADELPHIA, PA 19102
 T: 215.557.6509
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 215 SCHILLING CIRCLE, STE 102
 HUNT VALLEY, MD 21031
 T: 410.785.7423
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 ROBINSON ANDERSON SUMMERS
 28 WEST STATE STREET
 MEDIA, PA 19063
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 SALT LAKE CITY, UT 84117
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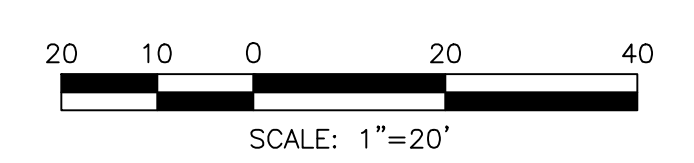
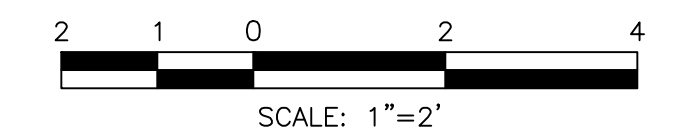
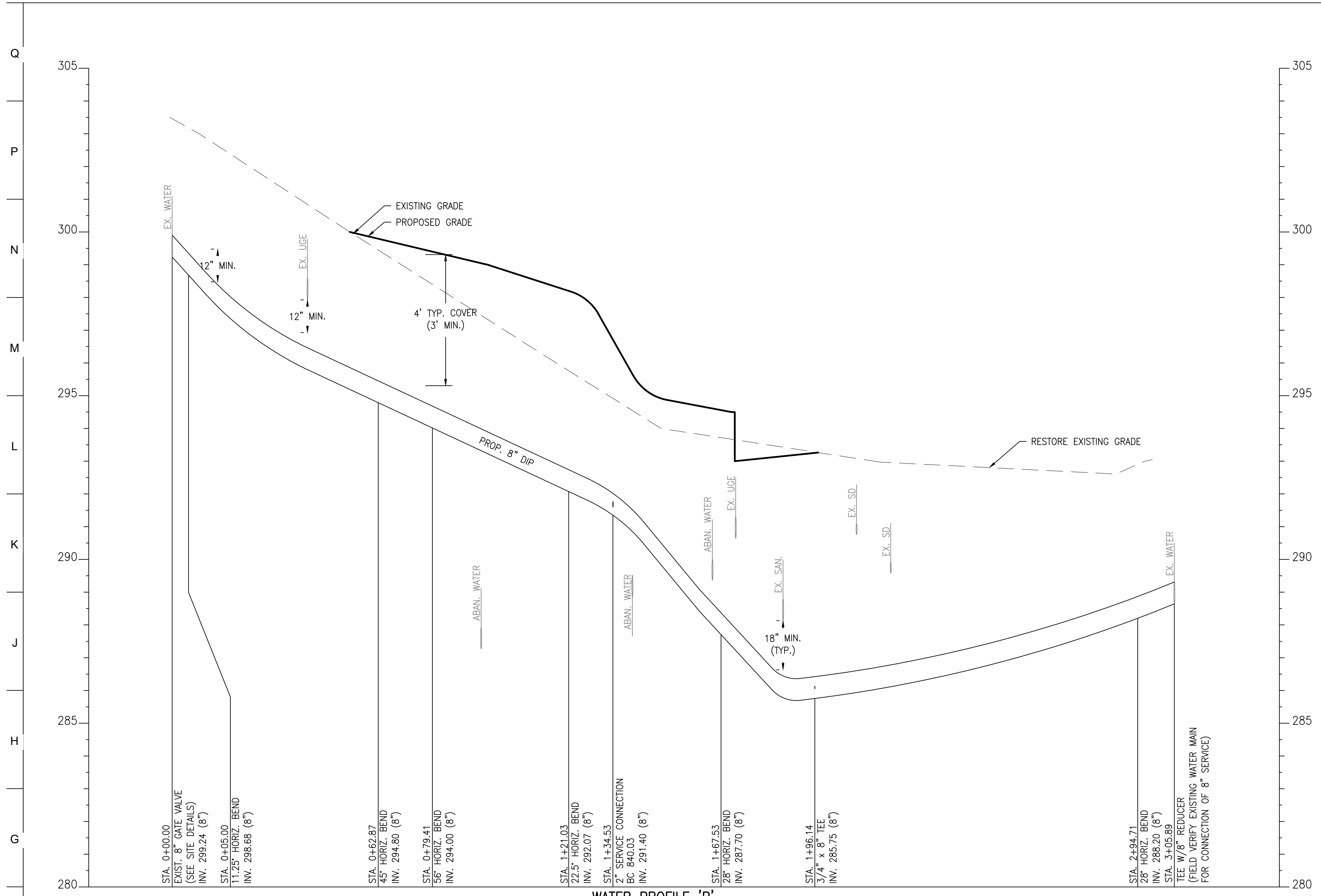
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DRAWING TITLE:
 UTILITY
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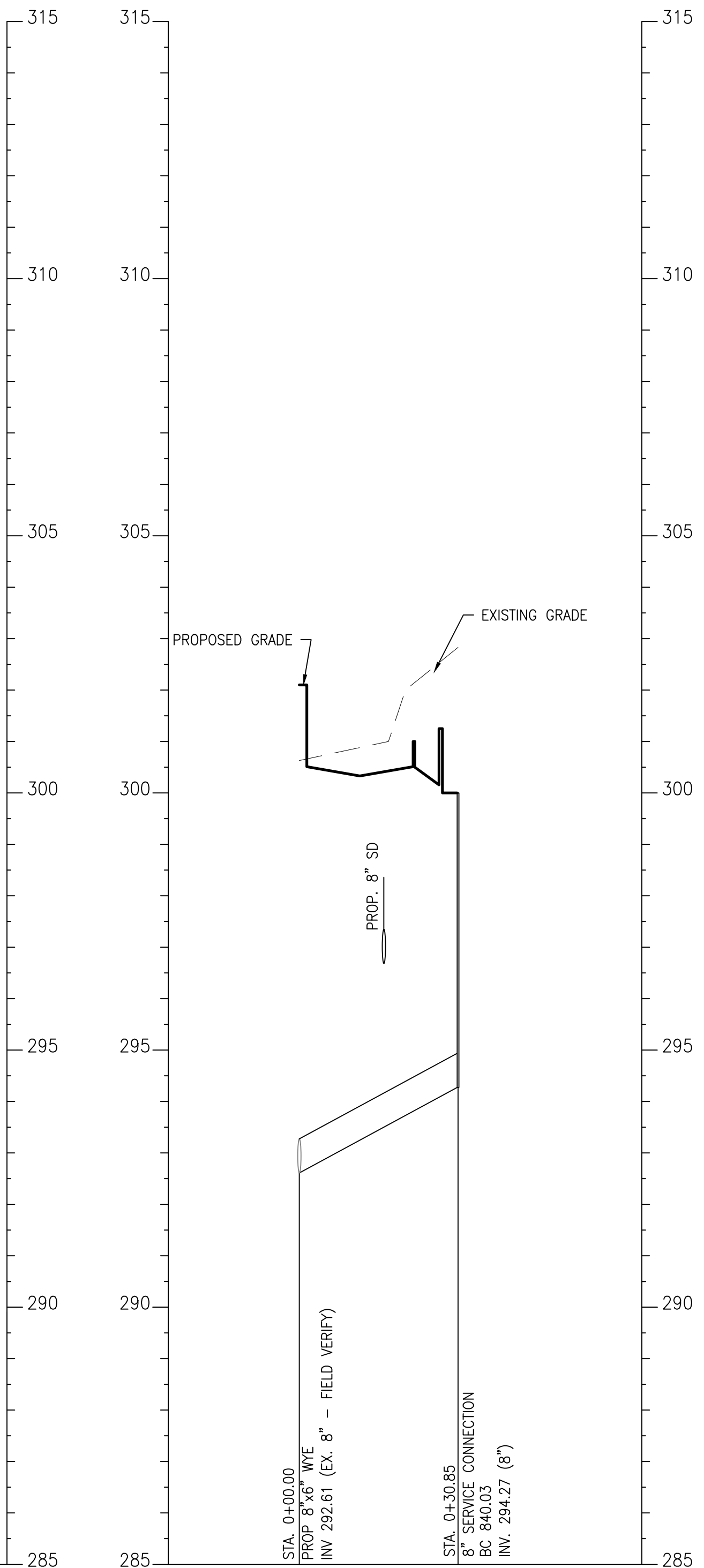
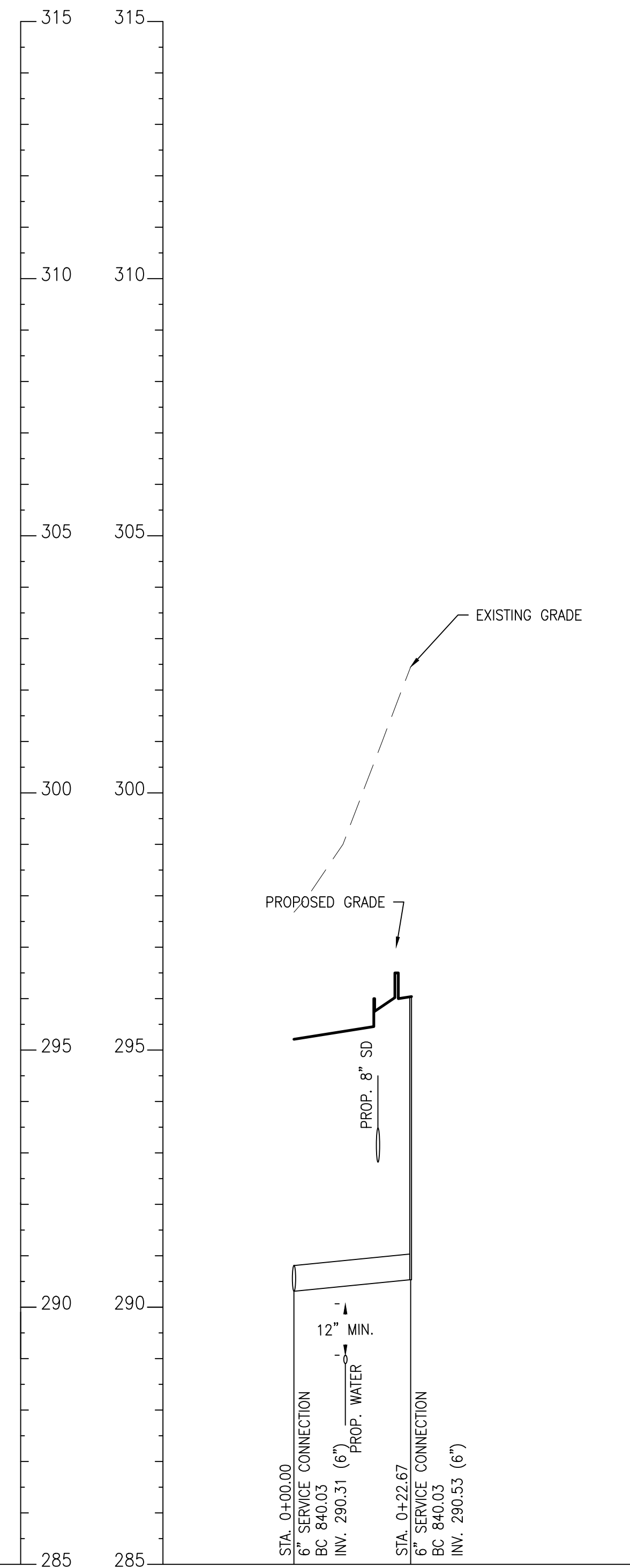
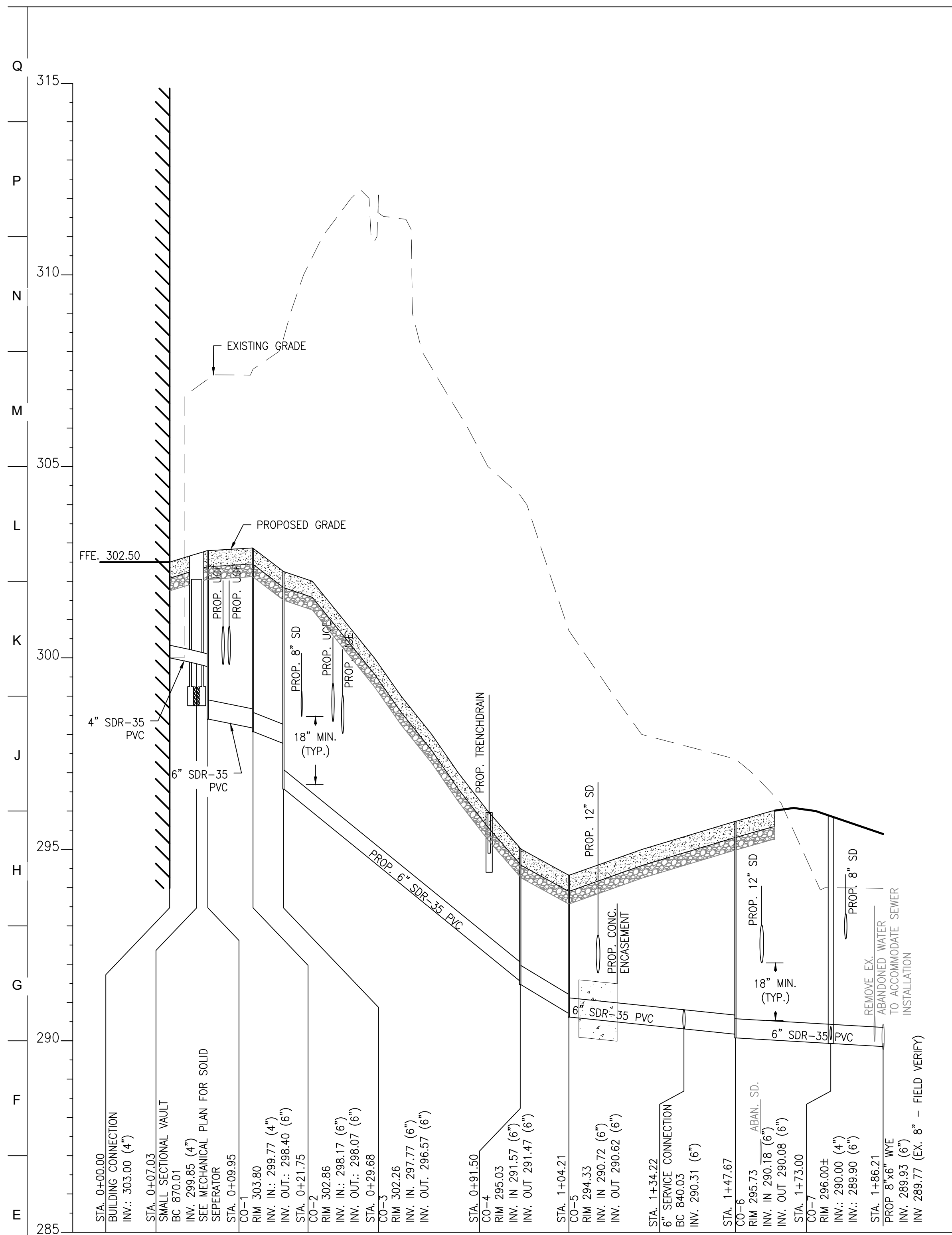
DRAWING NO:
C411



BCNR # 11545

HORIZONTAL DATUM: NAD 83(2011)
 VERTICAL DATUM: NAVD 88

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



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1876 MANSION HOUSE DRIVE
BALTIMORE MD 21217
CONTACT: MR. KARL KRANZ
PHONE: 443-552-3350

BKP

PROJECT TEAM:

ARCHITECT:
BUELL KRATZER POWELL, P.C.
1525 LOCUST STREET
PHILADELPHIA, PA 19102
T: 215.557.6509

CIVIL ENGINEER:
CARROLL ENGINEERING, INC
215 SCHILLING CIRCLE, STE 102
HUNT VALLEY, MD 21031
T: 410.785.7423

LANDSCAPE ARCHITECT:
ROBINSON ANDERSON SUMMERS
28 WEST STATE STREET
MEDIA, PA 19063
T: 302.888.1544

STRUCTURAL ENGINEER:
STRUCTURAL DESIGN STUDIO, INC
2225 EAST MURRAY HOLLADAY RD
SALT LAKE CITY, UT 84117
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190 WEST OSTEND ST, STE 300
BALTIMORE, MD 21230
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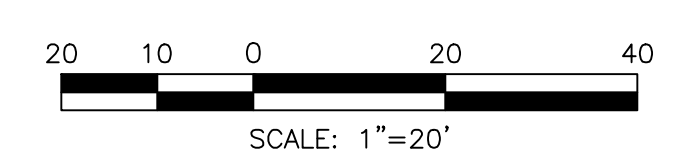
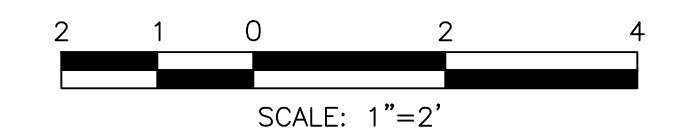
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DRAWING TITLE:
UTILITY
PROFILES

DRAWING NO.:
C412



BCNR # 11545

HORIZONTAL DATUM: NAD 83(2011)
VERTICAL DATUM: NAVD 88

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



PROJECT TEAM:

ARCHITECT:
 BUELL KRATZER POWELL, P.C.
 1525 LOCUST STREET
 PHILADELPHIA, PA 19102
 T: 215.557.6509

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 CARROLL ENGINEERING, INC
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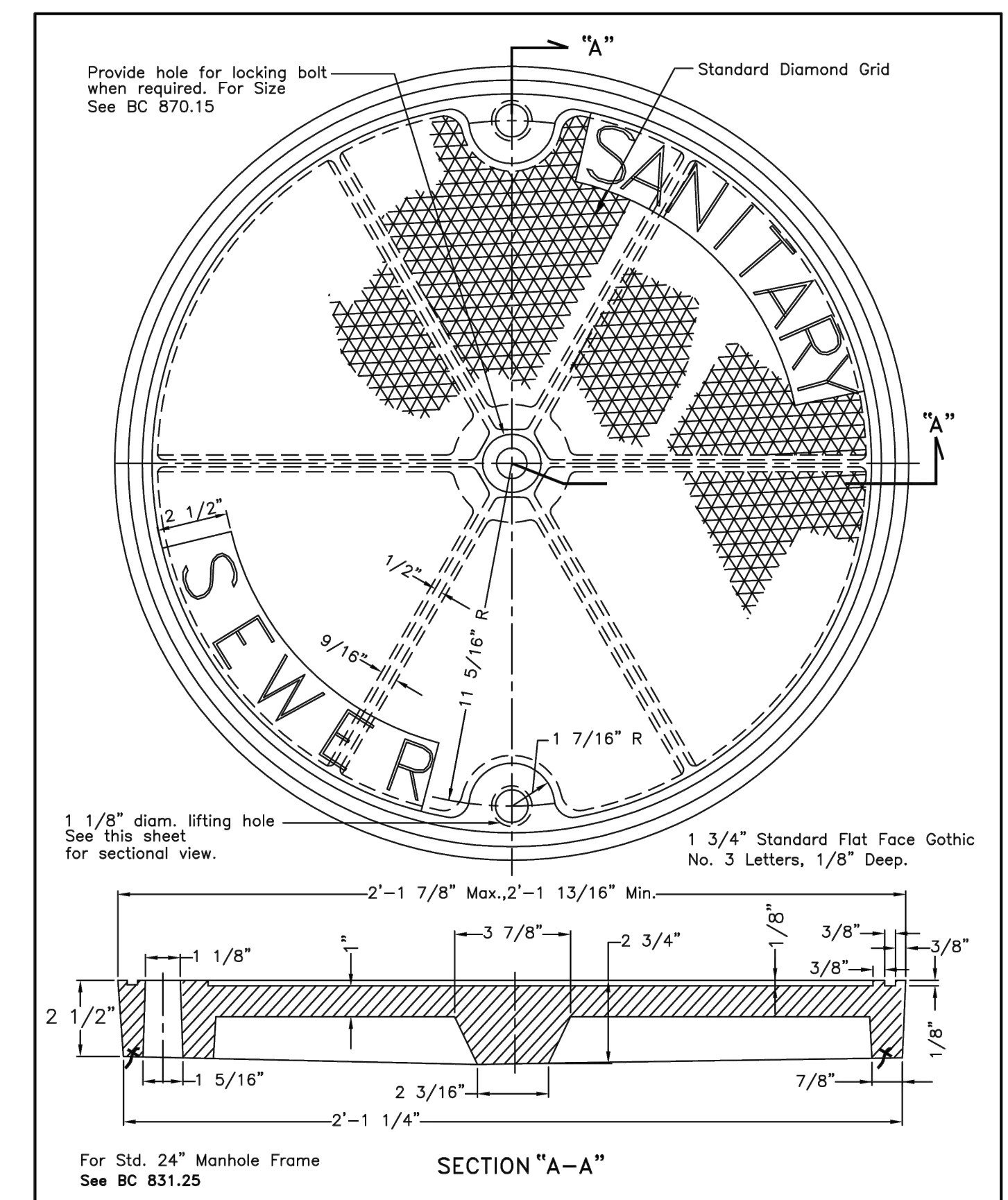
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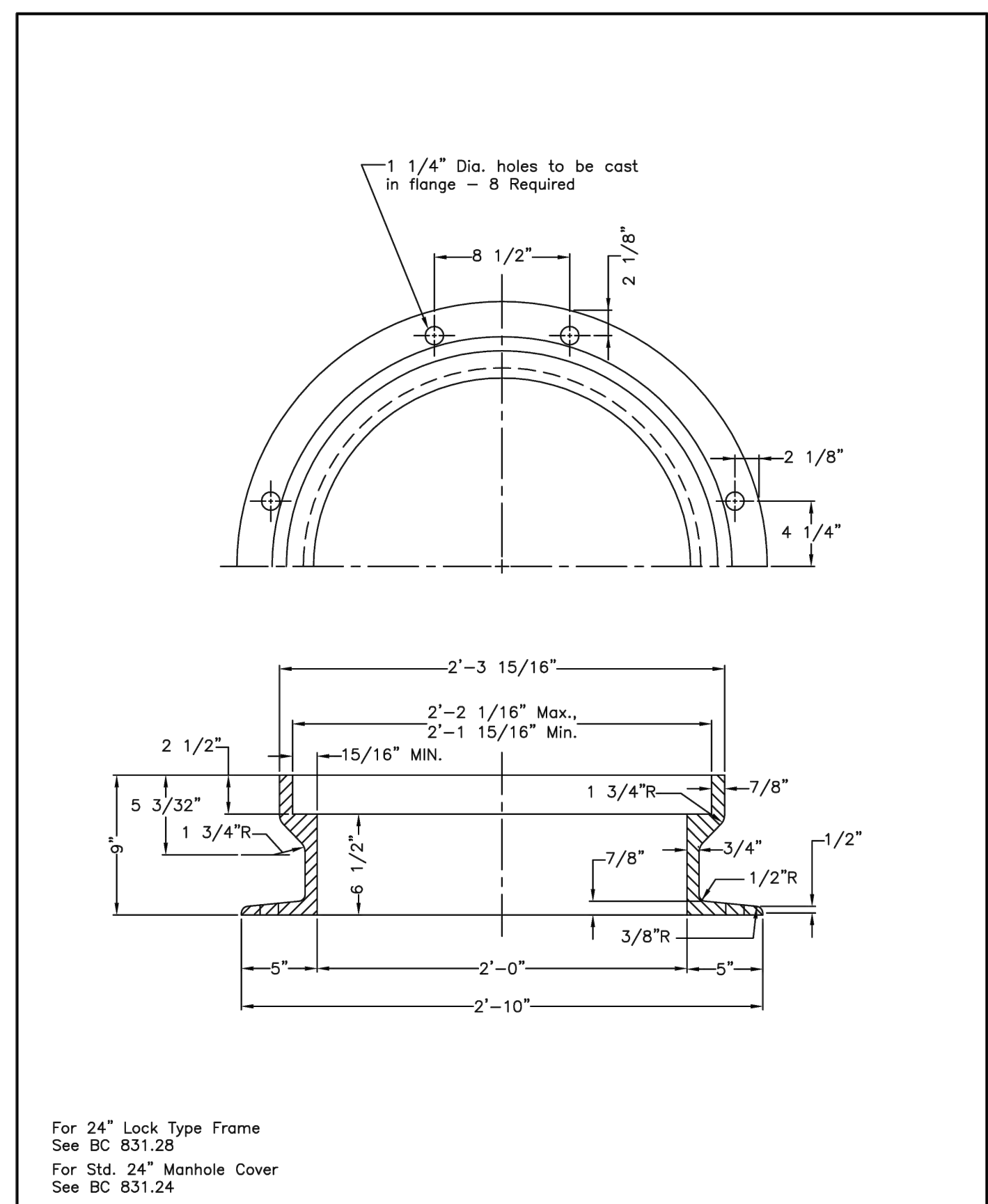
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SUBMISSION:	DATE
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REVISION:	DATE

DRAWING TITLE:
 UTILITY
 DETAILS

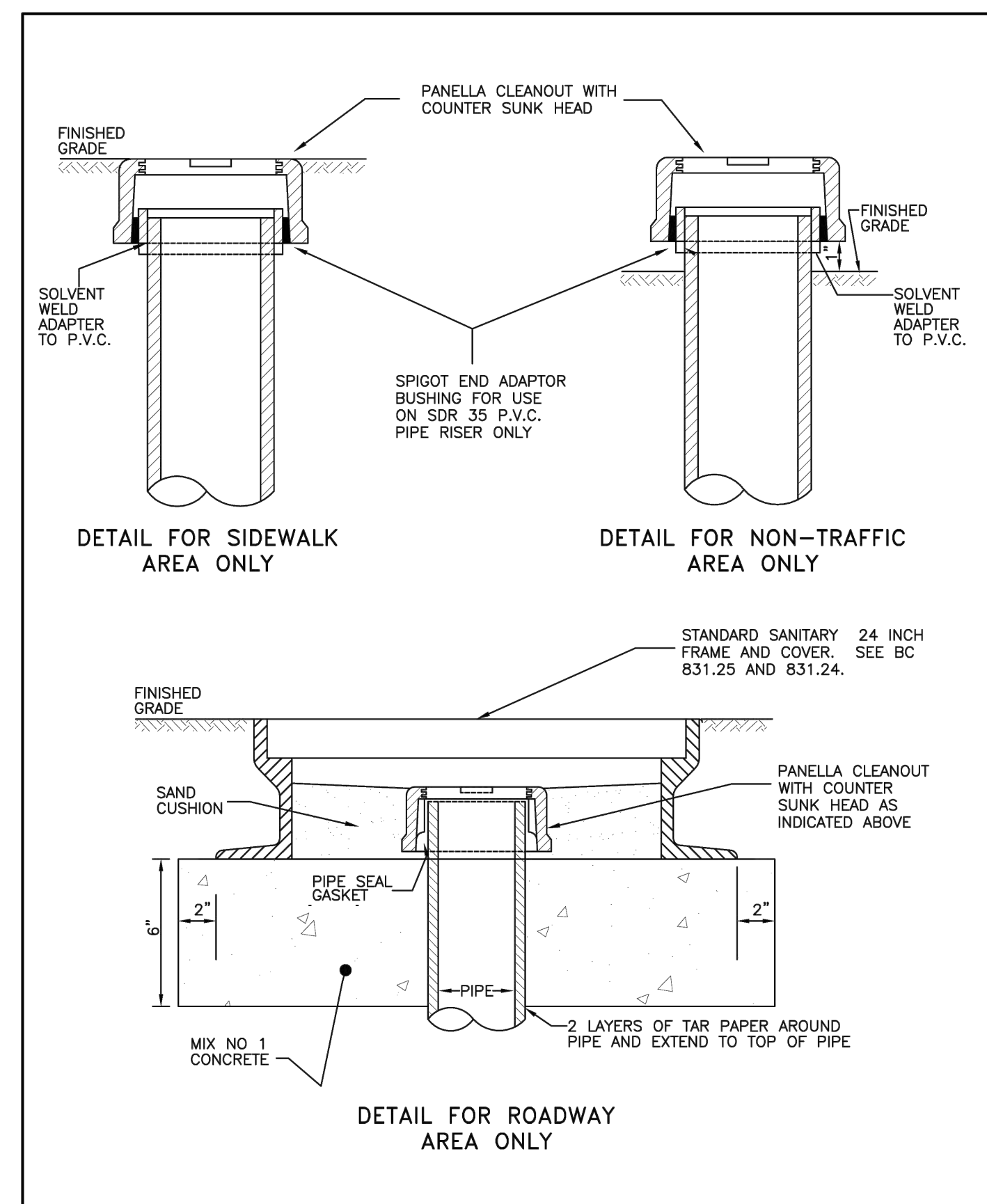
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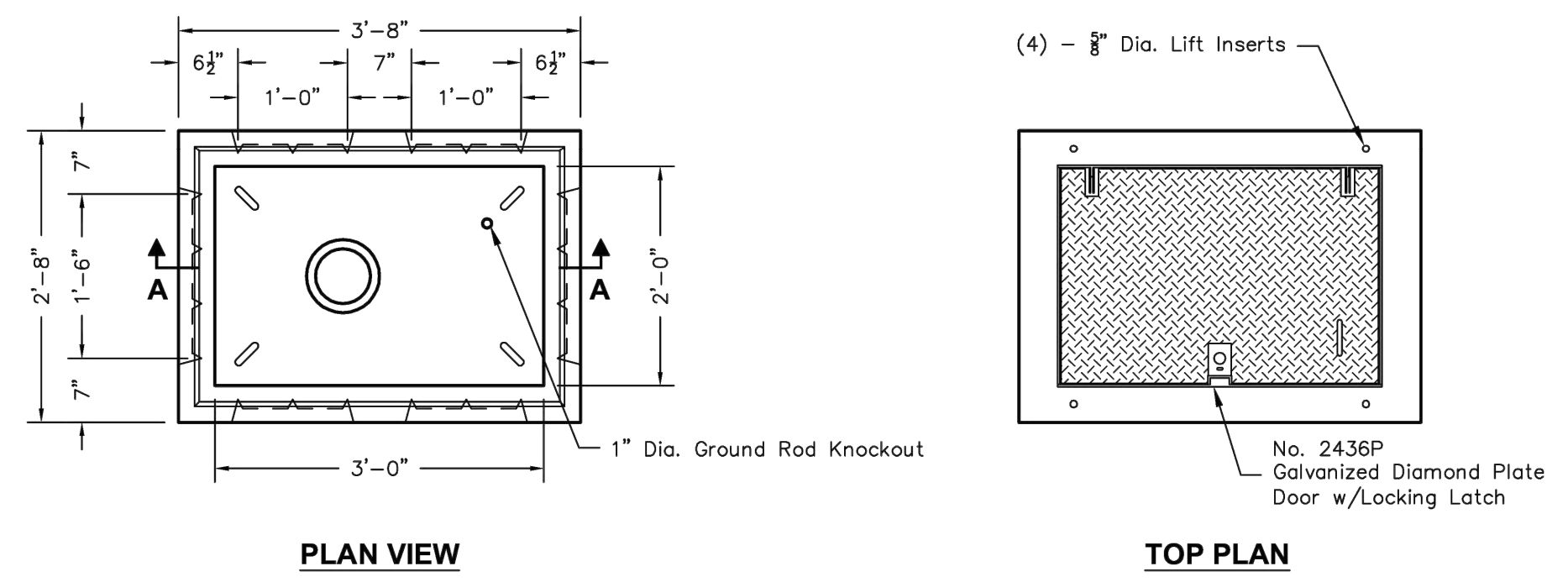
APPROVED:		CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS BUREAU OF WATER AND WASTEWATER	ISSUED	REVISED	REVISED
REAL:		STANDARD SAN 24 IN. MANHOLE COVER	3/2008		
DIRECTOR, DEPARTMENT OF PUBLIC WORKS		STANDARD NO. BC 831.24			
		SCALE: NONE			SHEET 1 OF 1



APPROVED:		CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS BUREAU OF WATER AND WASTEWATER	ISSUED	REVISED	REVISED
REAL:		STANDARD 24 IN. MANHOLE FRAME	3/2008		
DIRECTOR, DEPARTMENT OF PUBLIC WORKS		STANDARD NO. BC 831.25			
		SCALE: NONE			SHEET 1 OF 1

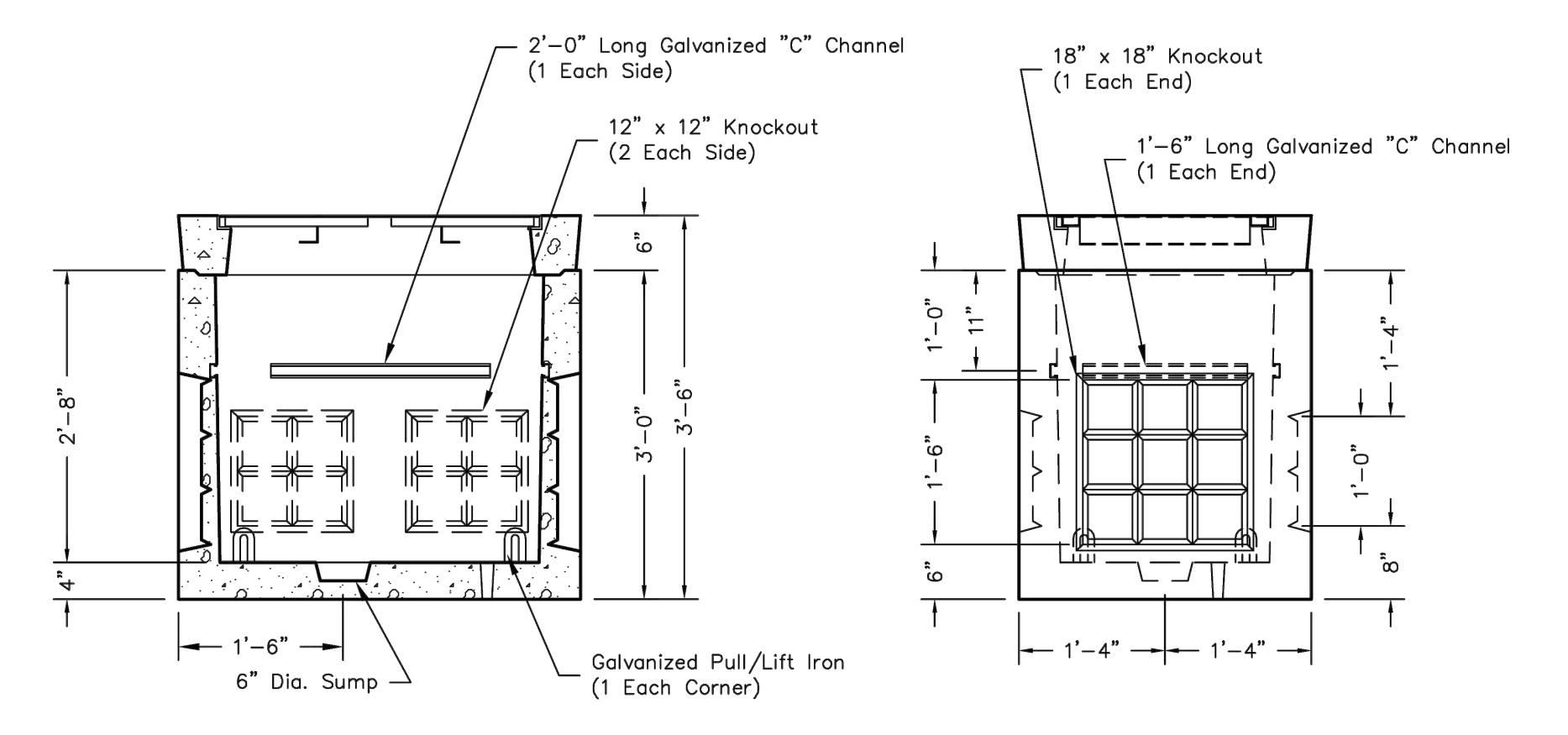


APPROVED:		CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS BUREAU OF WATER AND WASTEWATER	ISSUED	REVISED	REVISED
REAL:		CLEANOUT COVER ASSEMBLY	3/2008		
DIRECTOR, DEPARTMENT OF PUBLIC WORKS		STANDARD NO. BC 831.29			
		SCALE: NONE			SHEET 1 OF 1



PLAN VIEW
 Top Not Shown, See Top Plan

TOP PLAN
 No. 2436P Galvanized Diamond Plate Door w/Locking Latch

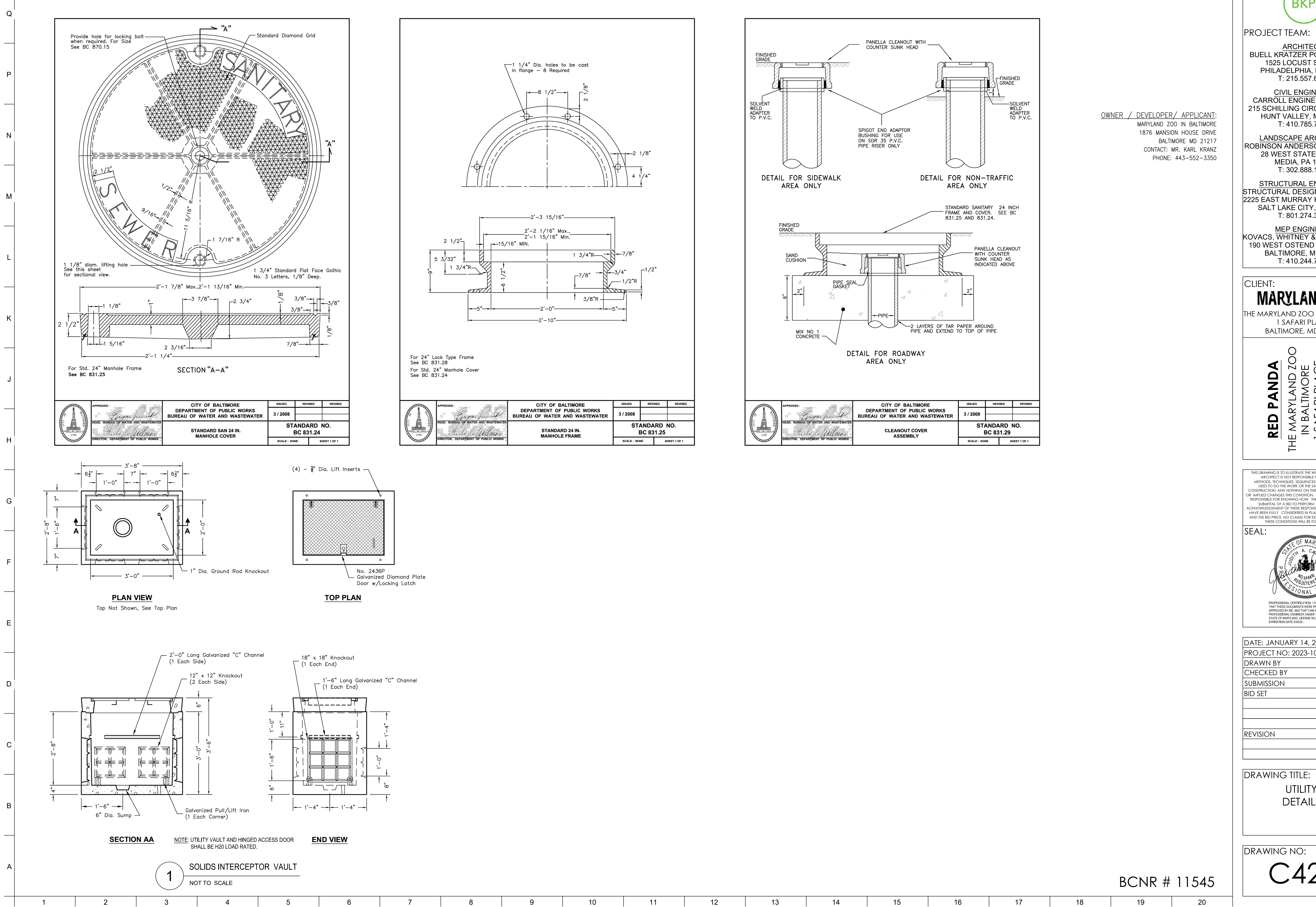


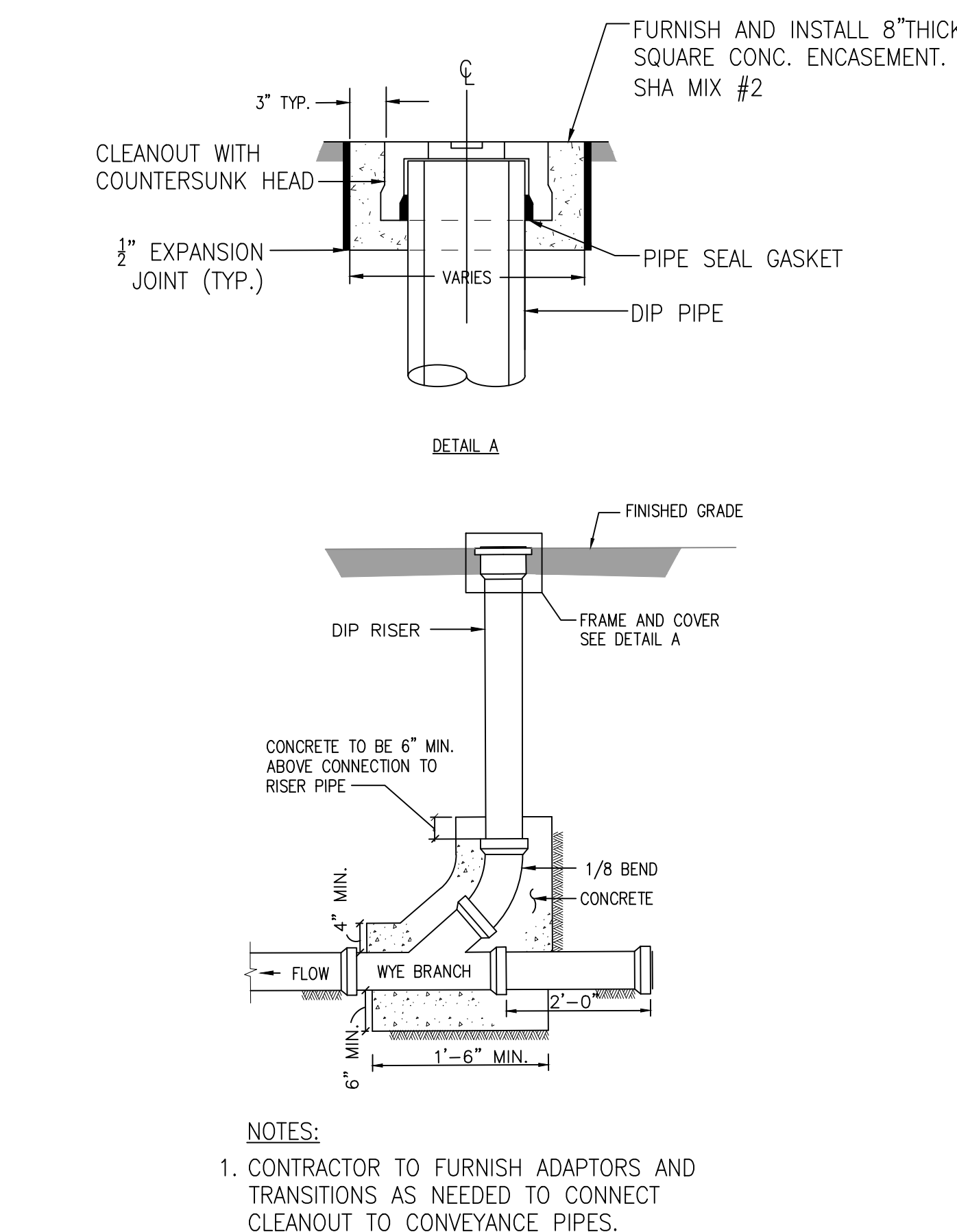
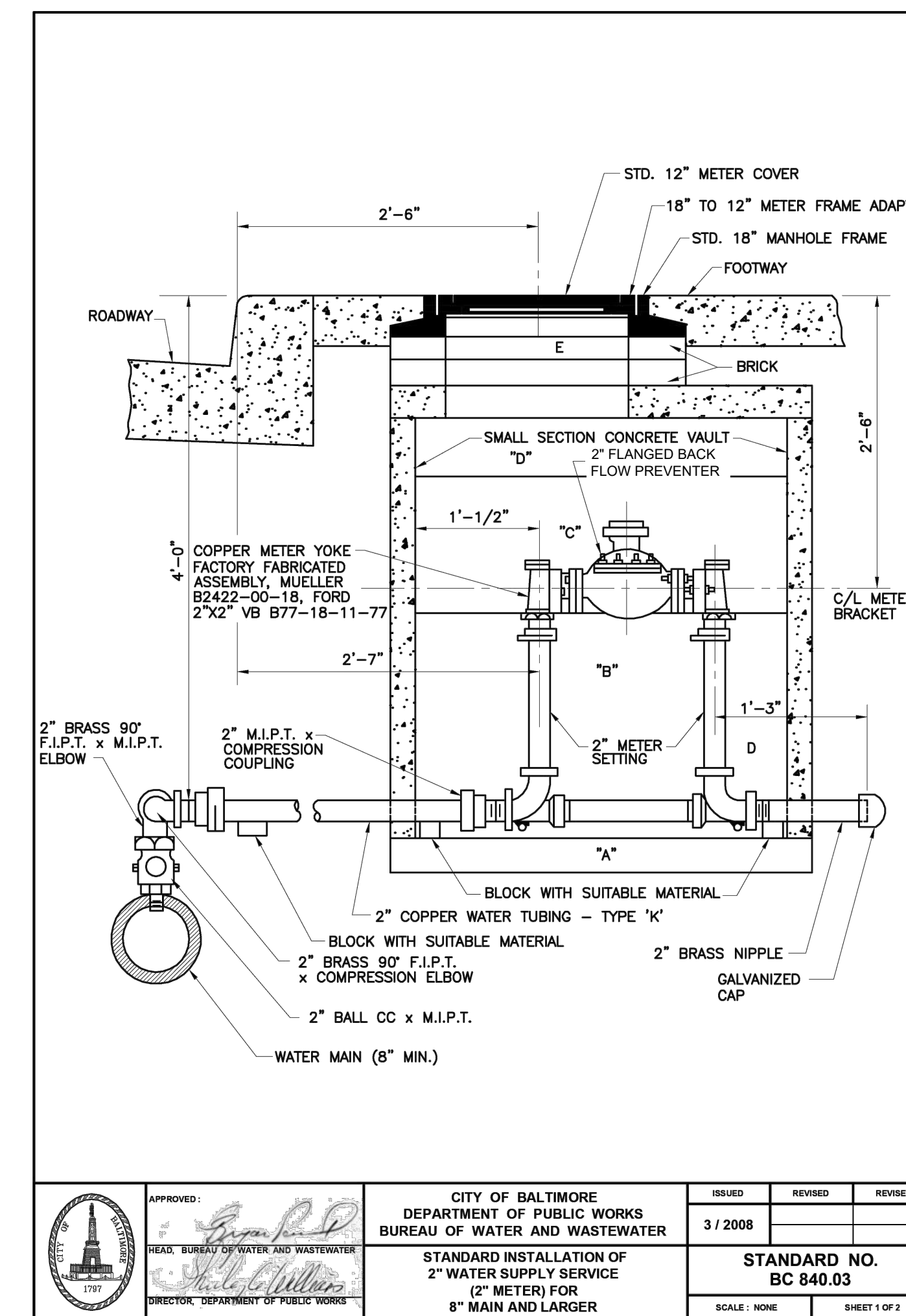
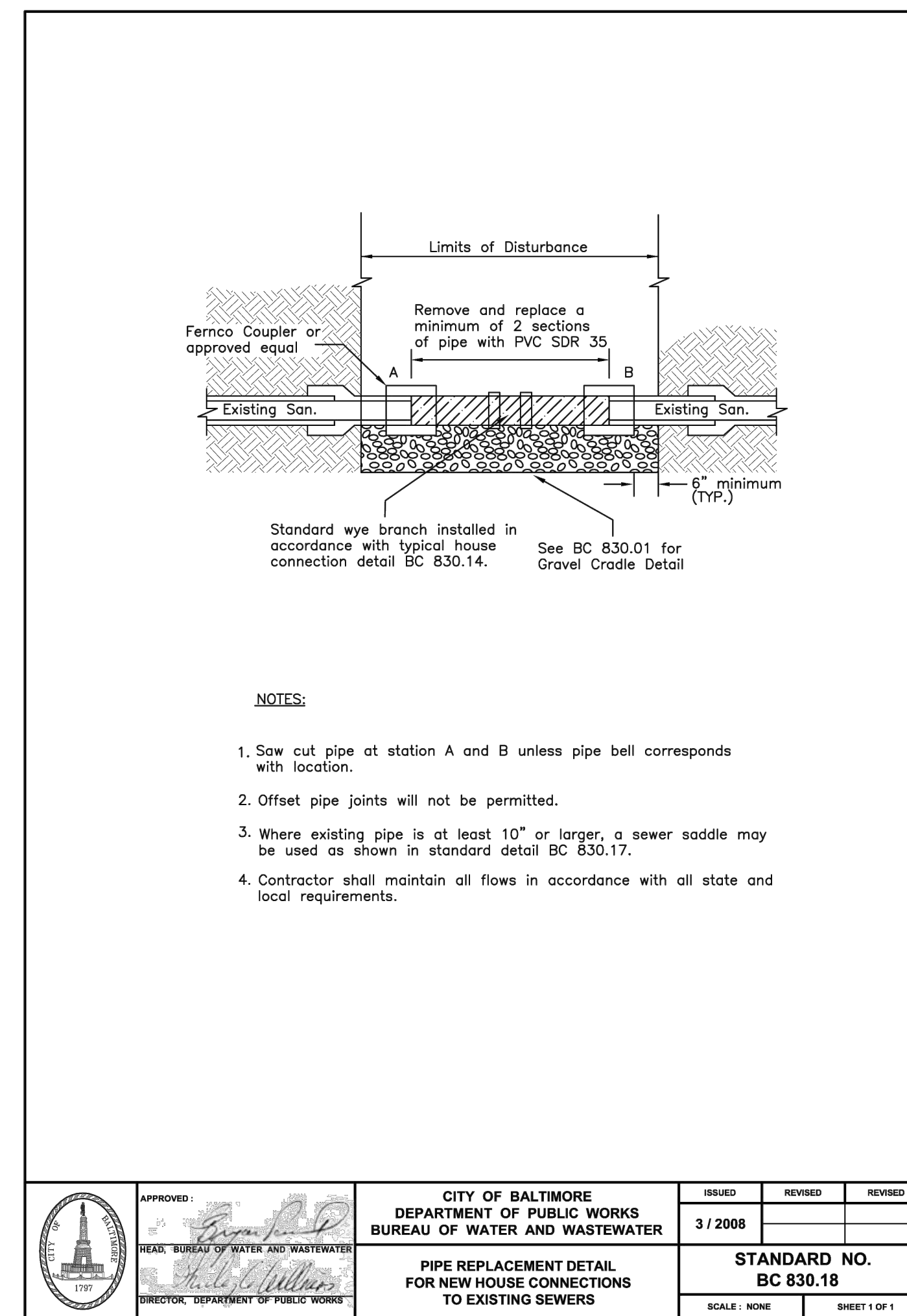
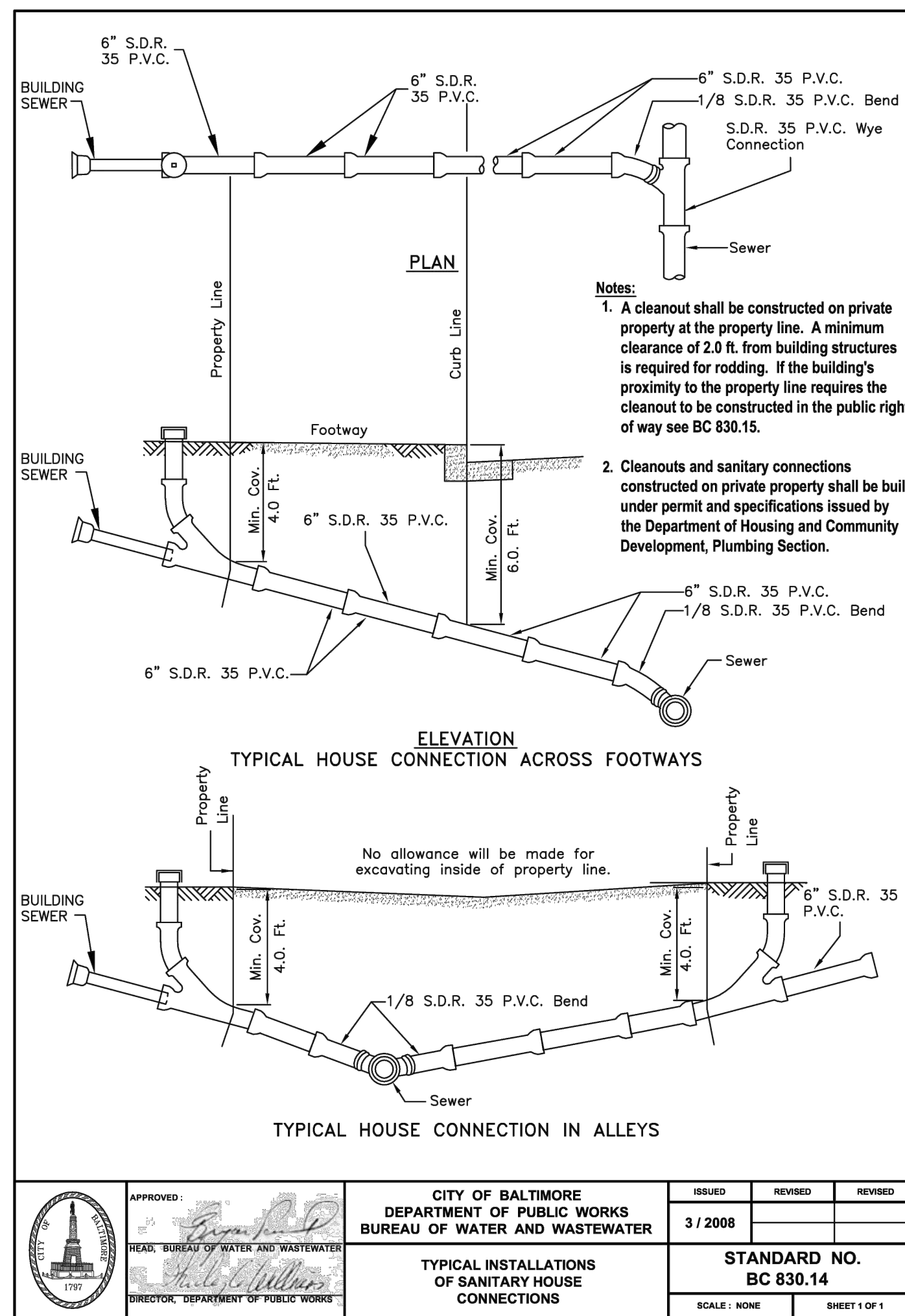
SECTION AA NOTE: UTILITY VAULT AND HINGED ACCESS DOOR SHALL BE H20 LOAD RATED.

END VIEW

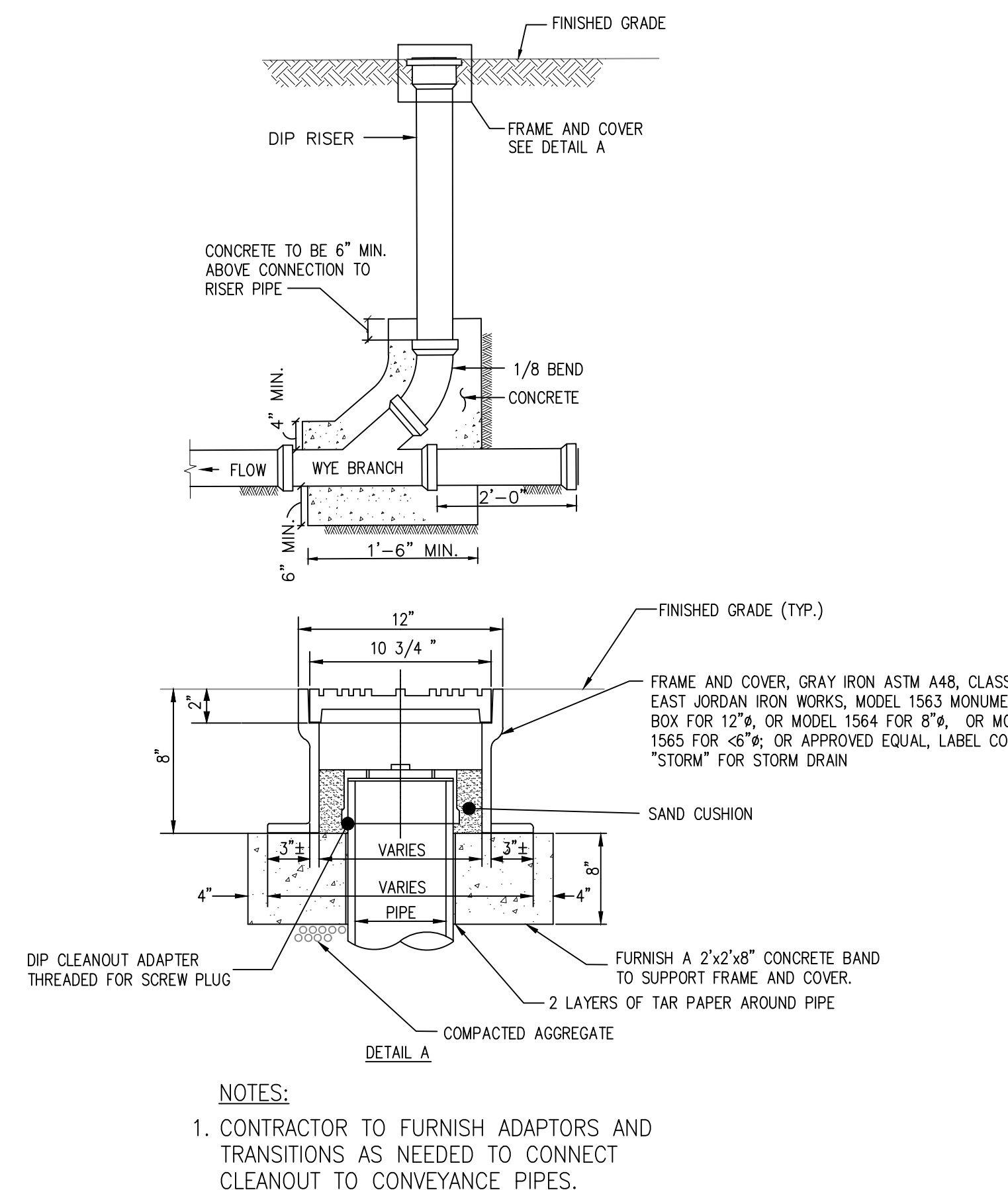
1 SOLIDS INTERCEPTOR VAULT
 NOT TO SCALE

BCNR # 11545





STORM DRAIN STANDARD CLEANOUT DETAIL - PAVEMENT APPLICATION



STORM DRAIN STANDARD CLEANOUT DETAIL - NON-PAVEMENT APPLICATION
N.T.S.



PROJECT TEAM:

ARCHITECT:
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1525 LOCUST STREET
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CIVIL ENGINEER:
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DRAWING TITLE:
UTILITY
DETAILS

DRAWING NO.:
C421

BCNR # 11545