

## STORM DRAINAGE STRUCTURES

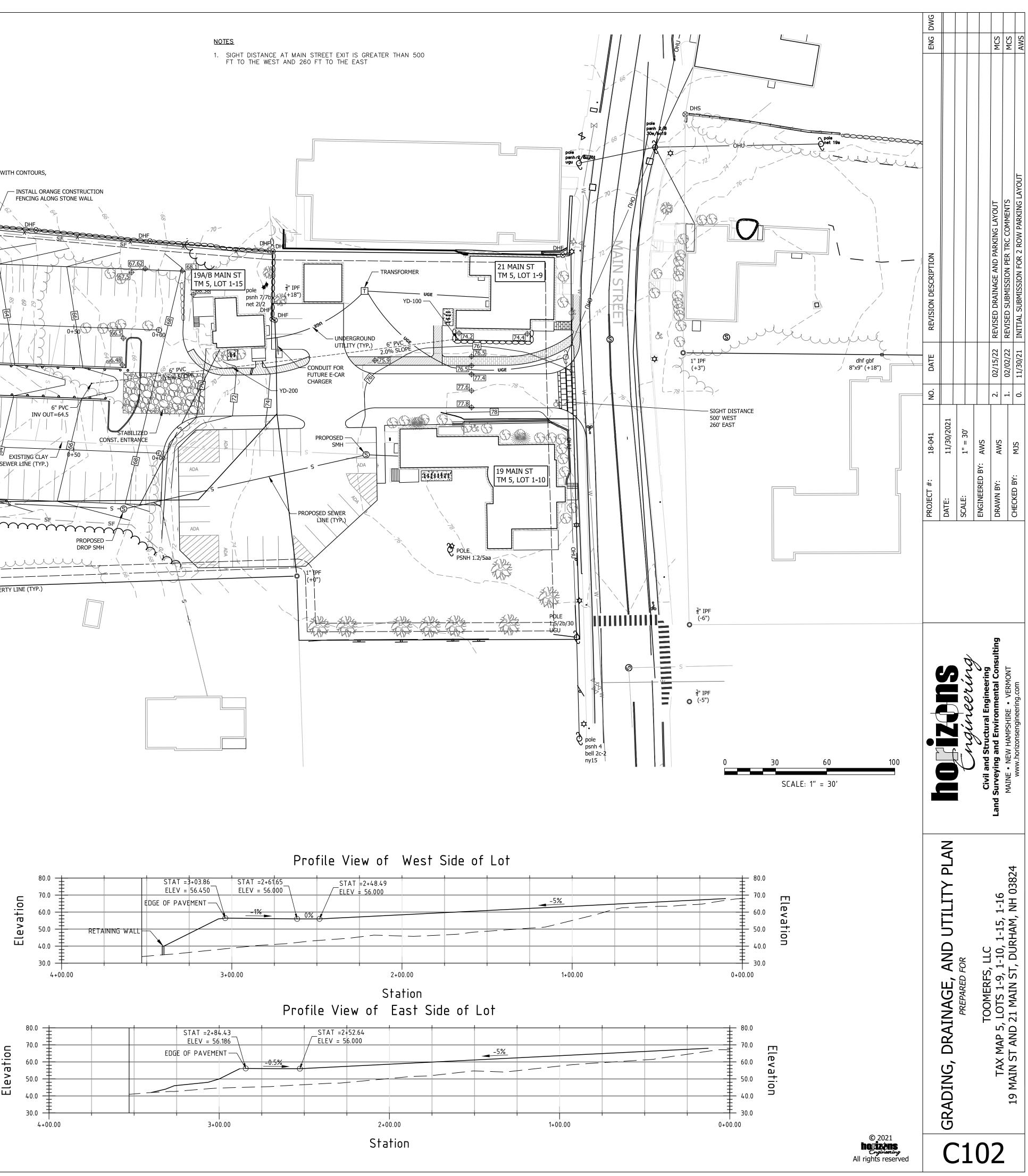
CATCH BASINS CB-100 (5'Ø) RIM =59.5 (A) 24" INV. = 55.7 (B) 12" INV. = 56.0 (C) 12" INV. = 56.7 SUMP = 4'

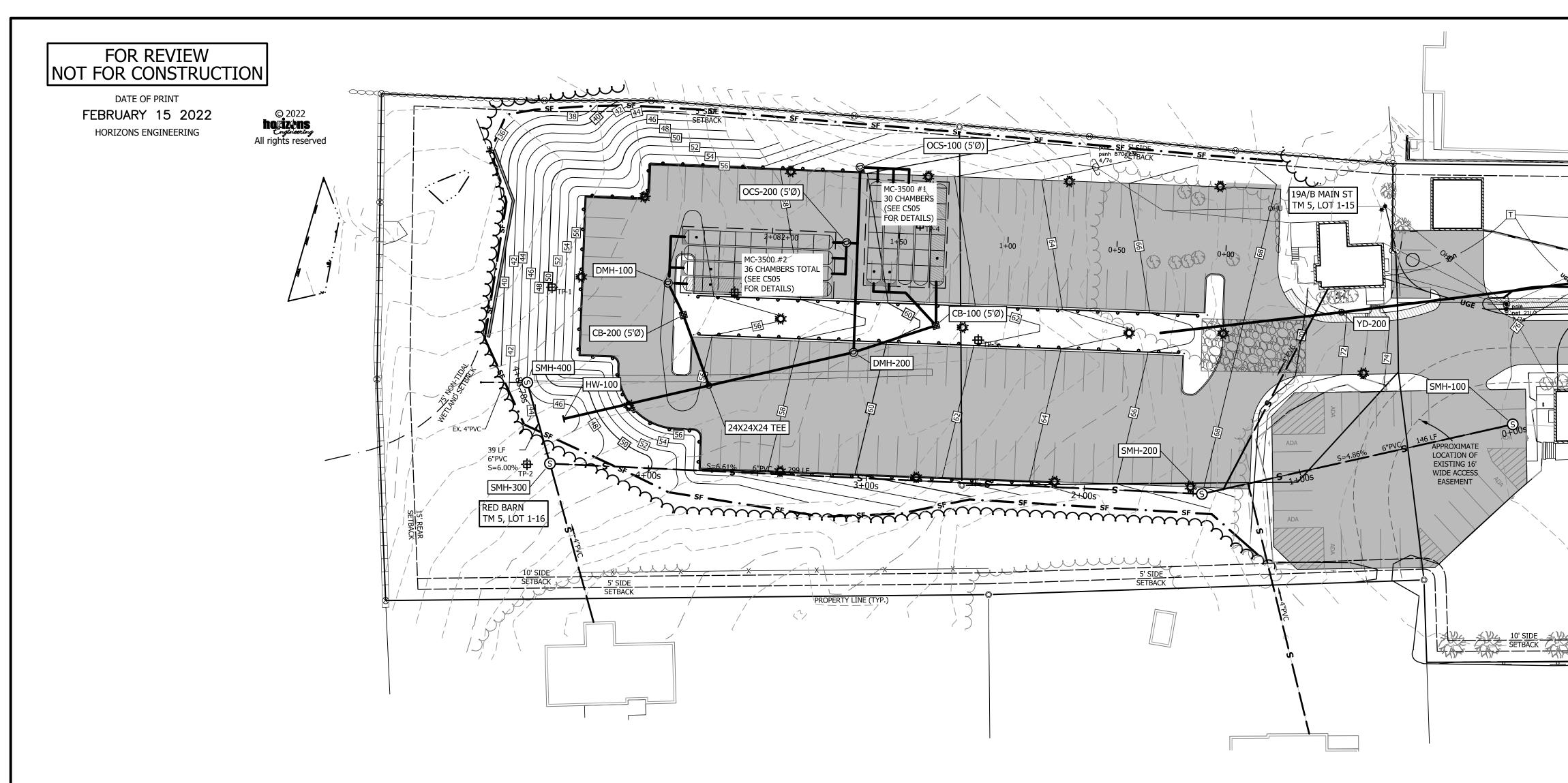
CB-200 (5'Ø) RIM =55.50 (A) 18" INV. = 50.6 (B) 12" INV. = 52.6 (EXIT @ 46.21) SUMP = 4'

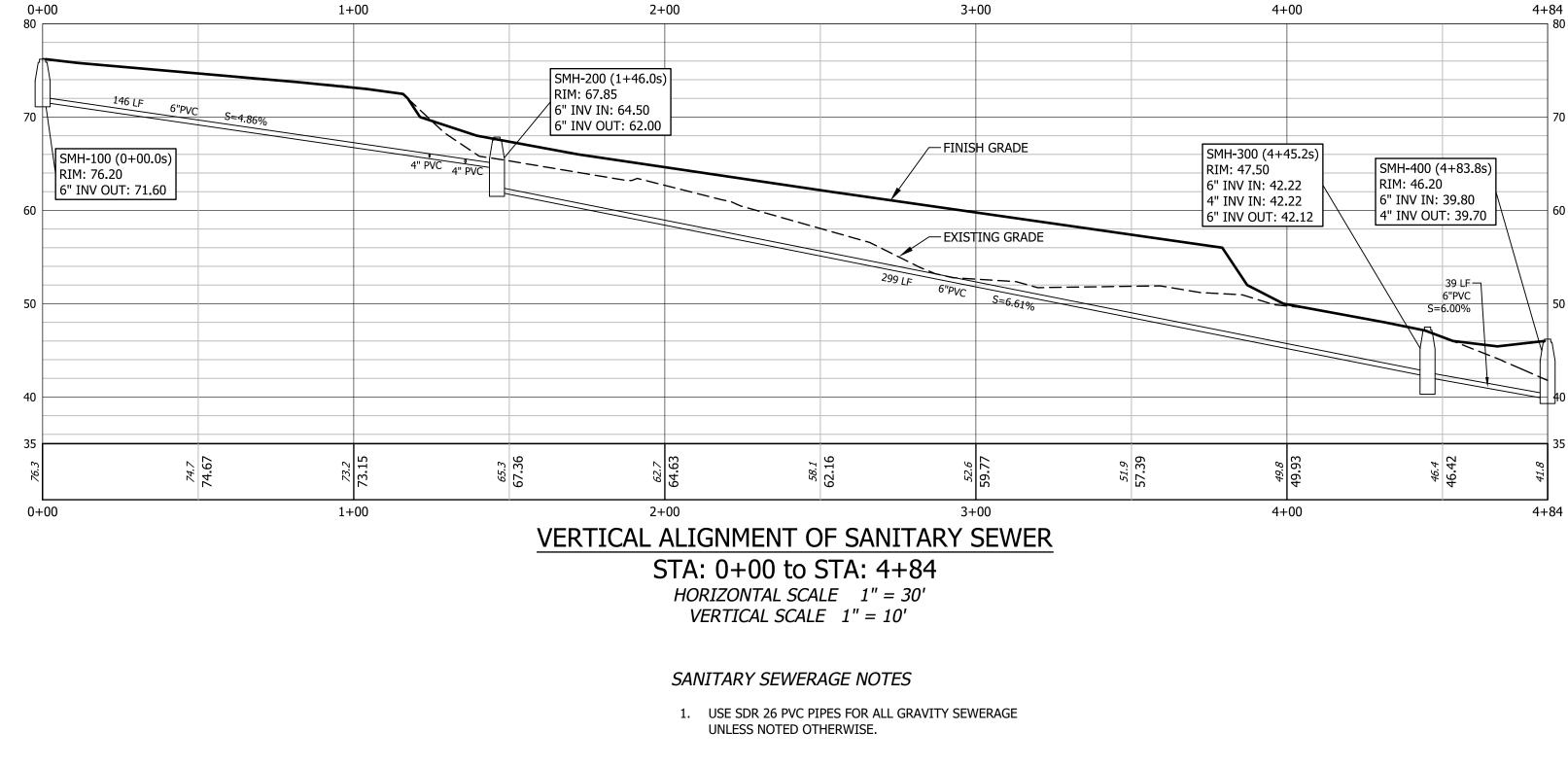
YD-100 (8"Ø PVC) RIM = 74.00 INV. = 71.50

YD-200 ( 8"Ø PVC) RIM = 71.80 INV. = 68.90 INV. = 65.60

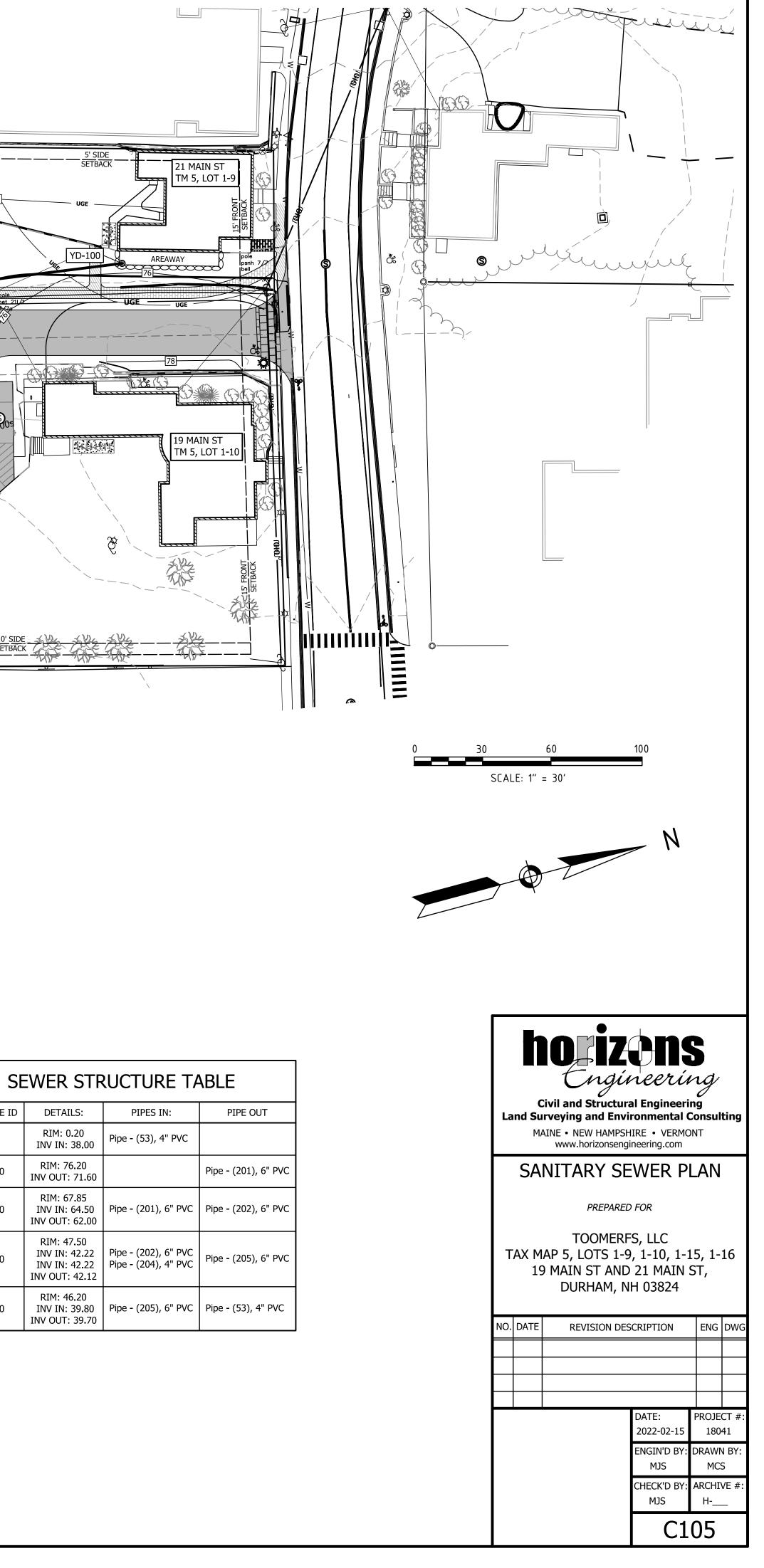
80.0 Elevation 60.0 50.0 40.0 30.0 20.0

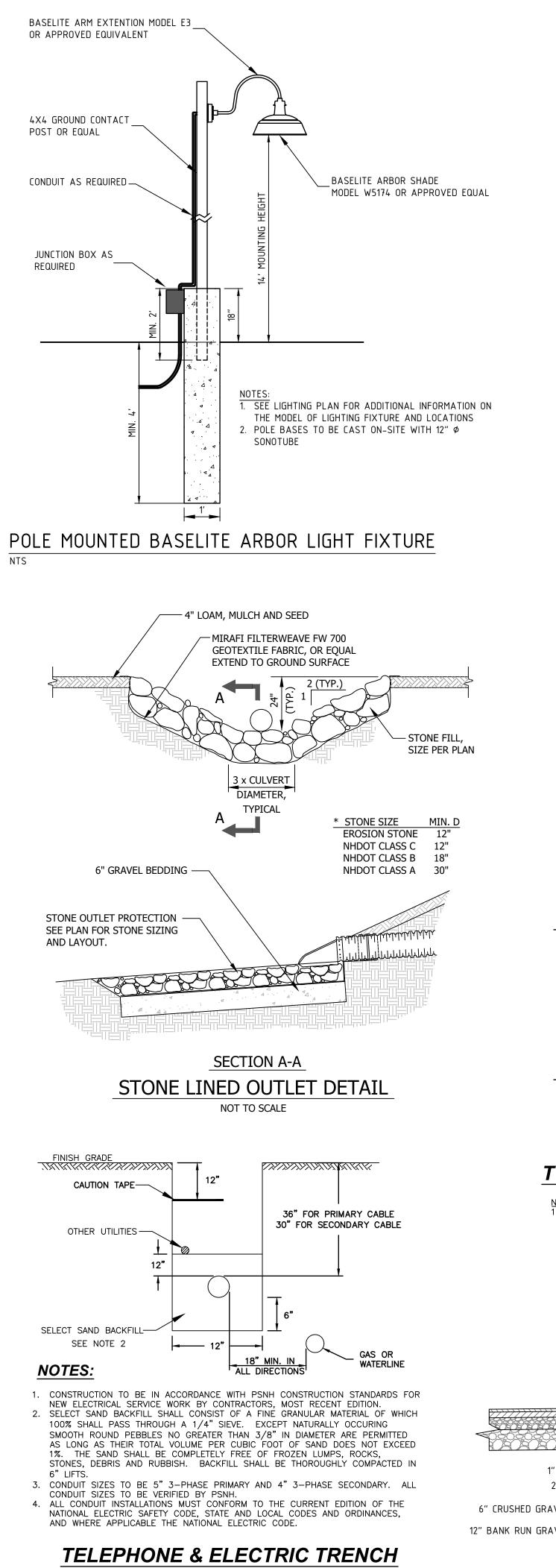


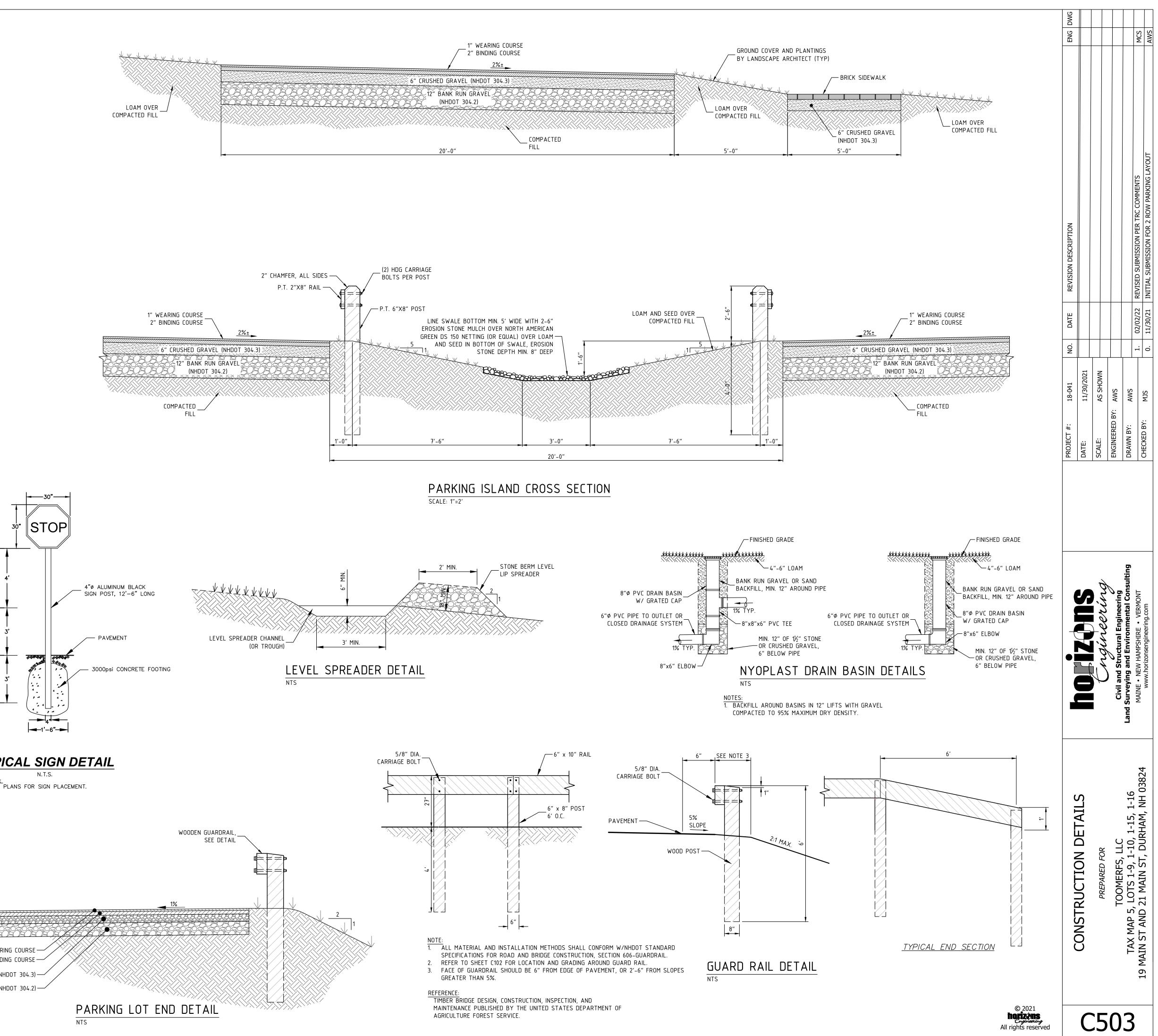


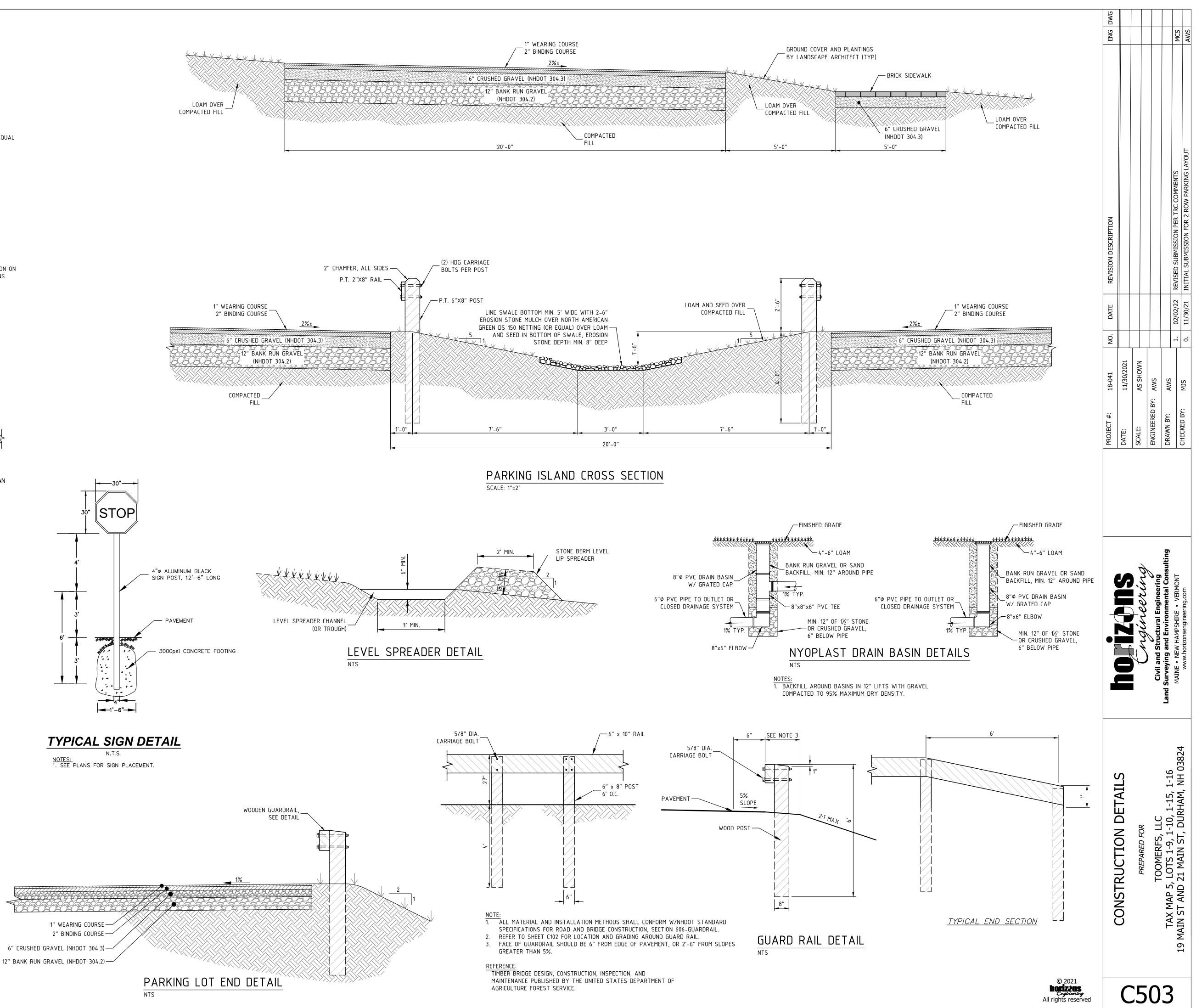


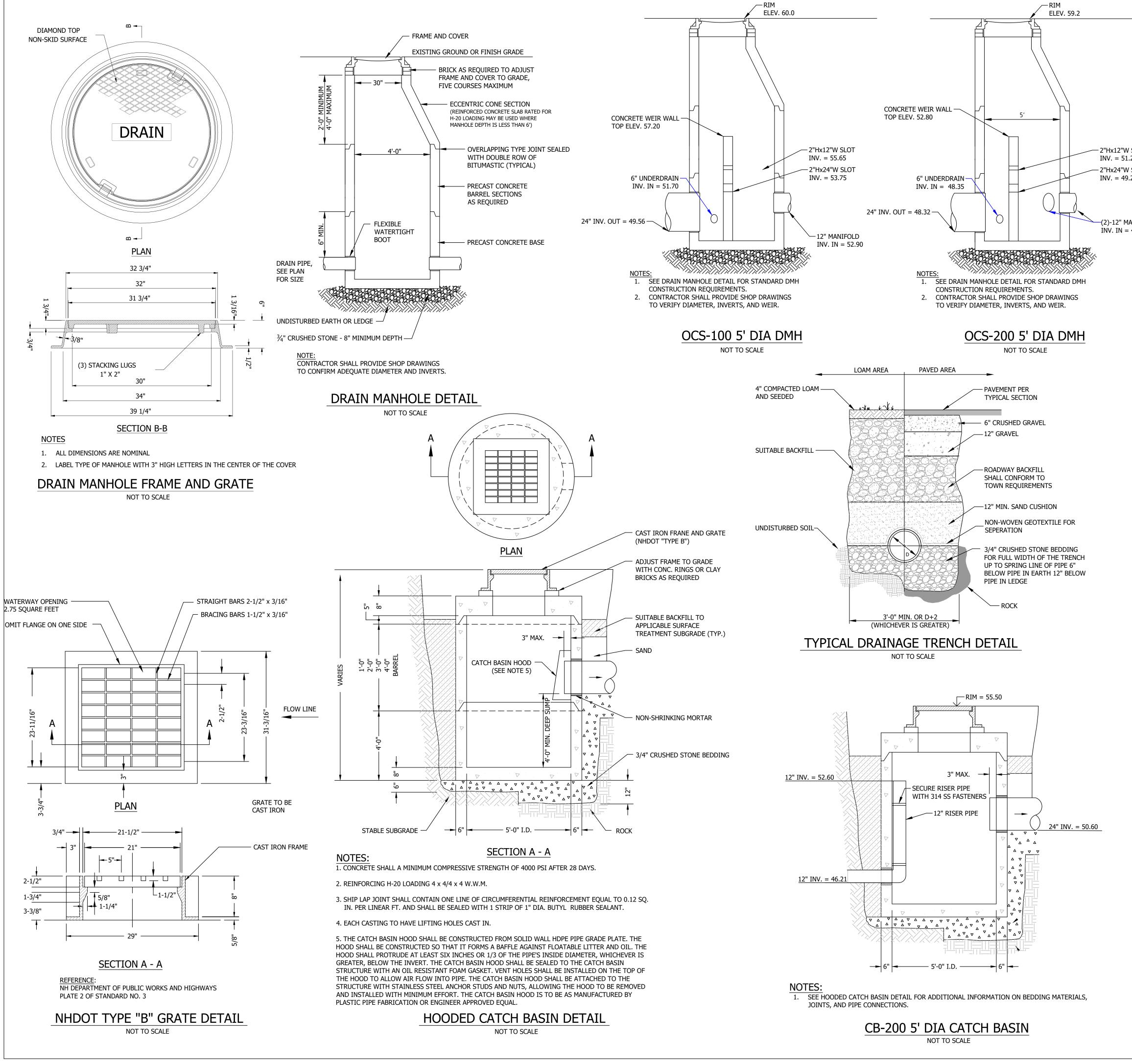
SEWE						
STRUCTURE ID	DE					
(89)	RIM INV I					
SMH-100	RIM INV OU					
SMH-200	RIM INV I INV OL					
SMH-300	RIM INV I INV I INV OU					
SMH-400	RIM INV I INV OU					











		ENG DWG				KSB	MCS
	2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.					×	Σ
	3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.						
	4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.						
	5. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".						
SLOT 25 SLOT	6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".						RC COMMENTS
25	7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:						RC COMMENTS
NIFOLD 49.5	<ul> <li>a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.</li> <li>b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT</li> </ul>	ISION DESCRIPTION				ON PER TOWN REVIEW	REVISED SUBMISSION PER TRC
	SPECIFIED IN ASTM F2418 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.	REVISION				REVISI	REVISED
	<ul> <li>c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.</li> <li>8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.</li> </ul>	DATE				02/11/22	02/02/22
		NO.				5.	
<u>IMP(</u> 1.	RTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.	18-041	11/30/2021	AS SHOWN	BY: AWS	AWS	
2.	CTORMITCH MC 2500 CHAMPERC CHALL RE INCTALLED IN ACCORDANCE WITH THE ICTORMITCH	PROJECT #:	ш	LE:	ENGINEERED	DRAWN BY:	CHECKED BY:
3.	CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS: • STONESHOOTER LOCATED OFF THE CHAMBER BED. • BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE. • BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.	PRC	DATE:	SCALE:	ENG	DRA	CHE
4. F	THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.						
5. 6.	JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE. MAINTAIN MINIMUM 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.						
7.	INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.						
8.	EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4. STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE.					ting	
9. 10.	STONE SHALL BE BROUGHT OP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND		J <b>,</b>	rd	D a U	Consul	DNT
11.	PRESERVE ROW SPACING. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING			6   	aineer	y	<ul> <li>VERMONT</li> <li>DG.COM</li> </ul>
12.	CAPACITIES TO THE SITE DESIGN ENGINEER. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO	-		17- 17-	ural En	vironn	E • NEW HAMPSHIRE • VERN www.horizonsengineering.com
NOT	PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.			1 V	Struct	and En	W HAMF orizonse
1.	STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".				Civil and	veying	NE • NE www.h
2.	<ul> <li>THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:</li> <li>NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.</li> <li>NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".</li> <li>WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".</li> </ul>				Ci	Land Survey	MAINE
3.	FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.						
to ( "Dui Con"	OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE HAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE P AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY. ACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT S FOR CONSTRUCTION EQUIPMENT.		CUNSIRUCIJUN DEIAILS	PREPARED FOR	TOOMERES IIC	TAX MAP 5, LOTS 1-9, 1-10, 1-15, 1-16	D 21 MAIN ST, DURHAM, NH
	FINAL APPROVAL BY DURHAM PLANNING BOARD. CERTIFIED BY MICHAEL BEHRENDT, TOWN PLANNER CERTIFIED		~	· –	<u>^</u>		19
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