# Site Plans

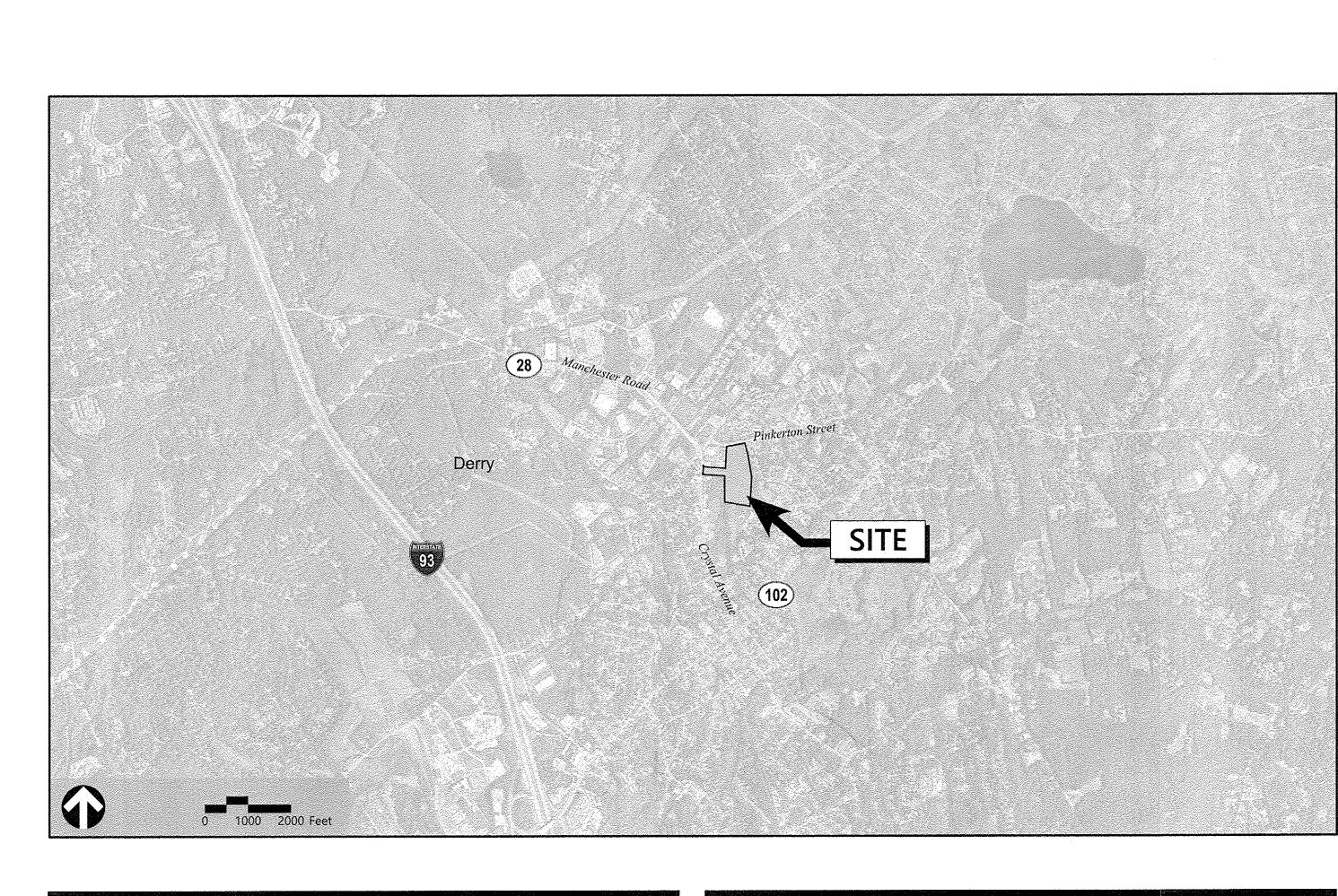
Issued for **TRC Review** Date Issued February 23, 2023 May 19, 2023 Latest Issue

# Proposed Chipotle

# 55 Crystal Avenue Derry, New Hampshire

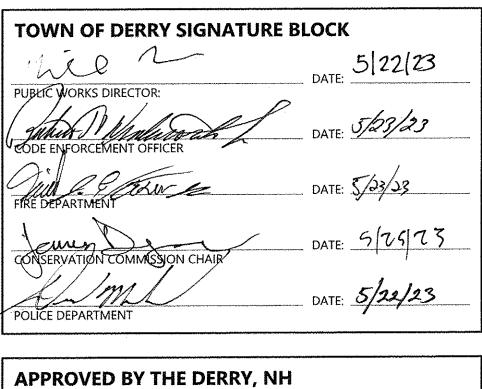
# **Owner/Applicant**

Hood Commons BSD LLC c/o Madison Properties 3611 14th Avenue Suite 420 Brooklyn, NY 11218



Sheet Index			Reference Drawings		
No.	Drawing Title	Latest Issue	No.	Drawing Title	Latest Iss
C1.01	Legend and General Notes	May 19, 2023	Sv-1	Existing Conditions Plan of Land	April 7, 20
C2.01	Overall Site Plan	May 19, 2023	SL-1A	Site Lighting Photometric Calculations	March 10, 20
C3.01	Layout and Materials Plan	May 19, 2023	SP101.0	Architectural Site Details	February 23, 20
C4.01	Grading and Drainage Plan	May 19, 2023	SP102.0	Dumpster Plan & Details	February 23, 20
C5.01	Utility Plan	May 19, 2023	A130.0	Floor Plan	February 23, 20
C6.01	Erosion and Sediment Control Plan	May 19, 2023	A302	Exterior Elevations	April 7, 20
C7.01-7.	04 Site Details	May 19, 2023			
C8.01	Snow Storage Plan	May 19, 2023			
L1.00	Planting Plan	May 19, 2023			
L2.00	Landscaping Details	May 19, 2023			TOW

Assessor's Map: 36 Lot: 017



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RECEIVED MAY 192023 Derry Planning Department

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2 Bedford Farms Drive Suite 200 Bedford, NH 03110 603.391.3900

# Architect

Lingle Design Group Inc., 158 W Main St #9247 Lena, IL 61048 Phone Number

# sue

2023 2023 2023

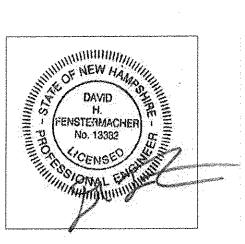
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PROVED BY THE DERRY, NH	
NNING BOARD ON:	
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THIS PLAN SET CONTAINS A TOTAL OF 19 SHEETS. THE FULL SET OF PROJECT PLANS IS ON FILE AT THE DERRY PLANNING DEPT.



52869.01 Proposed Chipo TRC Review May 19, 2023 VHB Project : Issued for :

Exist.	Prop.		Exist.	Prop.	
			$\sum_{i=1}^{n-1} \frac{(i-1)^{n-1}}{(i-1)^{n-1}} \int_{-\infty}^{\infty} dx^{i-1} dx$		CONCRETE
			$ \begin{array}{c} \begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ \end{array} \end{array} \xrightarrow{ \left( \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \right)} \left( \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \right) \left( \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \right) \left( \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \right) \left( \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \right) \left( \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \right) \left( \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \right) \left( \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \right) \left( \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \right) \left( \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \right) \left( \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \right) \left( \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \right) \left( \begin{array}{c} & & \\ & & \\ & & \\ & & \\ \end{array} \right) \left( \begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & $		HEAVY DUTY PAVEMENT
		PROJECT LIMIT LINE			
		RIGHT-OF-WAY/PROPERTY LINE			BUILDINGS
		EASEMENT	1282928		RIPRAP
		BUILDING SETBACK		<i>777</i> 77 74774	CONSTRUCTION EXIT
10+00	10+00	PARKING SETBACK	27.35 TC×	27.35 TC ×	TOP OF CURB ELEVATION
10+00	10+00	BASELINE	26.85 BC×	26.85 BC×	BOTTOM OF CURB ELEVATION
		CONSTRUCTION LAYOUT			
		ZONING LINE	132.75 $ imes$ 45.0 TW $_{ imes}$	132.75 × 45.0 TW	SPOT ELEVATION
		TOWN LINE	38.5 BW	45.0 TW 38.5 BW	TOP & BOTTOM OF WALL ELEVATION
			-	•	BORING LOCATION
		LIMIT OF DISTURBANCE			TEST PIT LOCATION
<u> </u>		WETLAND LINE WITH FLAG	€ <sup>MW</sup>	• <sup>MW</sup>	MONITORING WELL
		FLOODPLAIN	UD	UD	
BLSF		BORDERING LAND SUBJECT	12"D	12″D <b>→</b>	UNDERDRAIN
BZ				6″RD►	DRAIN
		WETLAND BUFFER ZONE	6"RD 12"S	1 <u>2"</u> S	ROOF DRAIN
NDZ		NO DISTURB ZONE	FM	' <u></u> FM	SEWER
200'RA		200' RIVERFRONT AREA			FORCE MAIN
			OHW	OHW	OVERHEAD WIRE
		GRAVEL ROAD	6"W	——6"W——	WATER
<u>EOP</u>	EOP	EDGE OF PAVEMENT		4"FP	FIRE PROTECTION
BB	BB	BITUMINOUS BERM		2"DW	DOMESTIC WATER
BC	BC	BITUMINOUS CURB		G	GAS
CC	CC	CONCRETE CURB	——————————————————————————————————————	——————————————————————————————————————	ELECTRIC
	CG	CURB AND GUTTER	STM	STM	STEAM
CC	ECC	EXTRUDED CONCRETE CURB	T	T	TELEPHONE
CC	MCC	MONOLITHIC CONCRETE CURB	——FA	——FA——	FIRE ALARM
CC	PCC	PRECAST CONC. CURB	CATV	CATV	CABLE TV
SGE	SGE	SLOPED GRAN. EDGING			
VGC	VGC	VERT. GRAN. CURB			CATCH BASIN CONCENTRIC
		LIMIT OF CURB TYPE			CATCH BASIN ECCENTRIC
					DOUBLE CATCH BASIN CONCENTRIC
		SAWCUT	_		DOUBLE CATCH BASIN ECCENTRIC
					GUTTER INLET
		BUILDING	D	$oldsymbol{eta}$	DRAIN MANHOLE CONCENTRIC
	SEN	BUILDING ENTRANCE	D	$\overline{\bullet}$	DRAIN MANHOLE ECCENTRIC
		LOADING DOCK	=TD=		TRENCH DRAIN
٠	•	BOLLARD	E	Ľ	
D	D	DUMPSTER PAD	CO	co	PLUG OR CAP
-0-	-	SIGN	•	•	
	-	DOUBLE SIGN			FLARED END SECTION
					HEADWALL
т т	<u> </u>	STEEL GUARDRAIL	S	ullet	SEWER MANHOLE CONCENTRIC
	<b>I</b> I	WOOD GUARDRAIL	S		SEWER MANHOLE ECCENTRIC
			- CS		
	= $=$ $=$ $=$	РАТН	© WV	CS WV	CURB STOP & BOX
$\sim$		TREE LINE		$\overset{\text{wv}}{\bullet}$	WATER VALVE & BOX
×	- <del>x x</del>	WIRE FENCE	TSV	TSV	TAPPING SLEEVE, VALVE & BOX
0	• <b>•</b> ••	FENCE	44	•	FIRE DEPARTMENT CONNECTION
	<b></b>	STOCKADE FENCE	HYD ©	HYD O	FIRE HYDRANT
	$\infty \infty \infty \infty$	STONE WALL	WM •	WM	WATER METER
Δ		RETAINING WALL	PIV	PIV	POST INDICATOR VALVE
		STREAM / POND / WATER COURSE	$\bigcirc$	$\otimes$	WATER WELL
			GG	-	
		DETENTION BASIN	GG GM	GG O GM	GAS GATE
			GM	GM	GAS METER
—×——	×		E	● <sup>EMH</sup>	ELECTRIC MANHOLE
<	· <:::::> ·	SILT SOCK / STRAW WATTLE	EM	EM ⊡	ELECTRIC METER
4	<u> </u>	MINOR CONTOUR	¢	*	
—20— —	20	MAJOR CONTOUR			
			1	● <sup>™H</sup>	TELEPHONE MANHOLE
(10)	(10)	PARKING COUNT	Τ	T	TRANSFORMER PAD
	C10	COMPACT PARKING STALLS	-0-	.▲	
DYL	DYL	DOUBLE YELLOW LINE	-0-	-	UTILITY POLE
SL	SL	STOP LINE	0-	● ,	GUY POLE
			Д	ل سا	GUY WIRE & ANCHOR
		CROSSWALK	HH ©	HH ©	HAND HOLE
		ACCESSIBLE CURB RAMP	PB ⊡	PB ⊡	PULL BOX
£	£	ACCESSIBLE PARKING			
É. VAN	ی VAN				

# breviations

brevia	
General	
ABAN	ABANDON
ACR	ACCESSIBLE CURB RAMP
ADJ	ADJUST
APPROX	APPROXIMATE
BIT	BITUMINOUS
BS	BOTTOM OF SLOPE
BWLL	BROKEN WHITE LANE LINE
CONC	CONCRETE
DYCL	DOUBLE YELLOW CENTER LINE
EL	ELEVATION
ELEV	ELEVATION
EX	EXISTING
FDN	FOUNDATION
FFE	FIRST FLOOR ELEVATION
GRAN	GRANITE
GTD	GRADE TO DRAIN
LA	LANDSCAPE AREA
LOD	
MAX	MAXIMUM
MIN	
NIC	
NTS	NOT TO SCALE
PERF	PERFORATED
PROP	PROPOSED
REM	REMOVE
RET	RETAIN
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
SWEL	SOLID WHITE EDGE LINE
SWLL	SOLID WHITE LANE LINE
TS	TOP OF SLOPE
ТҮР	TYPICAL
TYP Utility	TYPICAL
	TYPICAL CATCH BASIN
Utility	
<b>Utility</b> CB	CATCH BASIN
Utility CB CMP	CATCH BASIN CORRUGATED METAL PIPE
Utility CB CMP CO DCB	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN
Utility CB CMP CO DCB DMH	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE
Utility CB CMP CO DCB DMH CIP	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE
Utility CB CMP CO DCB DMH CIP COND	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT
Utility CB CMP CO DCB DMH CIP COND DIP	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE
Utility CB CMP CO DCB DMH CIP COND DIP FES	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION
Utility         CB         CMP         CO         DCB         DMH         CIP         COND         DIP         FES         FM	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN
Utility         CB         CMP         CO         DCB         DMH         CIP         COND         DIP         FES         FM         F&G	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE
Utility         CB         CMP         CO         DCB         DMH         CIP         COND         DIP         FES         FM         F&G         F&C	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER
Utility         CB         CMP         CO         DCB         DMH         CIP         COND         DIP         FES         FM         F&G         F&C         GI	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET
Utility         CB         CMP         CO         DCB         DMH         CIP         COND         DIP         FES         FM         F&G         F&C         GI         GT	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP
Utility         CB         CMP         CO         DCB         DMH         CIP         COND         DIP         FES         FM         F&G         F&C         GI         GT         HDPE	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP
Utility         CB         CMP         CO         DCB         DMH         CIP         COND         DIP         FES         FM         F&G         F&C         GI         GT         HDPE         HH	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND GRATE GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE
Utility         CB         CMP         CO         DCB         DCB         DMH         CIP         COND         DIP         FES         FM         F&G         F&G         GI         GT         HDPE         HW	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL
Utility         CB         CMP         CO         DCB         DMH         CIP         COND         DIP         FES         FM         F&G         F&C         GI         HDPE         HH         HYD	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL
Utility         CB         CMP         CO         DCB         DMH         COND         DMH         COND         FES         FM         F&G         F&C         GI         HDPE         HW         HYD         INV	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION
Utility         CB         CMP         CO         DCB         DMH         CIP         COND         DIP         FES         FM         F&G         GI         GT         HDPE         HW         HVD         INV         I=	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION
Utility         CB         CMP         CO         DCB         DMH         COND         DMH         COND         FES         FM         F&G         F&C         GI         HDPE         HW         HYD         INV	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION
Utility         CB         CMP         CO         DCB         DMH         CIP         COND         DIP         FES         FM         F&G         GI         GT         HDPE         HW         HVD         INV         I=	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION
Utility         CB         CMP         CO         DCB         DCMH         COND         CIP         COND         FBS         FM         F&G         F&G         GI         HDPE         HH         HVD         INV         I=         LP         MES         PIV	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION INVERT ELEVATION LIGHT POLE METAL END SECTION
Utility         CB         CMP         CO         DCB         DMH         CIP         DMH         CIP         FM         FES         FM         F&G         F4G         GI         HDPE         HH         HVD         INV         I=         LP         MES	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FRAME AND GRATE FRAME AND GRATE FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION INVERT ELEVATION LIGHT POLE METAL END SECTION
Utility         CB         CMP         CO         DCB         DCMH         COND         CIP         COND         FBS         FM         F&G         F&G         GI         HDPE         HH         HVD         INV         I=         LP         MES         PIV	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION INVERT ELEVATION LIGHT POLE METAL END SECTION
Utility         CB         CMP         CO         DCB         DCMH         COND         DMH         COND         FAG         FAQ         FAC         GI         FAC         GI         HDPE         HH         HVD         INV         I=         LP         MES         PIV         PWW	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FRAME AND GRATE FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HANDHOLE HEADWALL INVERT ELEVATION INVERT ELEVATION INVERT ELEVATION LIGHT POLE METAL END SECTION POST INDICATOR VALVE
Utility         CB         CMP         CO         DCB         DCB         DMH         COND         DMH         COND         FBS         FM         F&G         F&G         GI         HDPE         HH         HVD         INV         I=         LP         MES         PIV         PVC	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DOUBLE CATCH BASIN DRAIN MANHOLE CAST IRON PIPE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FRAME AND GRATE FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HYDRANT INVERT ELEVATION INVERT ELEVATION INVERT ELEVATION INVERT ELEVATION INVERT ELEVATION COST INDICATOR VALVE PAVED WATER WAY
Utility         CB         CMP         CO         DCB         DCMH         COND         DMH         COND         FAG         FAQ         FAC         GI         HDPE         HH         HVD         INV         I=         LP         MES         PIV         PWW         PVC         RCP	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DOUBLE CATCH BASIN DOUBLE CATCH BASIN CAST IRON PIPE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FORCE MAIN FORCE MAIN FRAME AND GRATE FRAME AND GRATE FRAME AND GRATE GUTTER INLET GREASE TRAP GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HANDHOLE HANDHOLE HANDHOLE INVERT ELEVATION INVERT ELEVATION INVERT ELEVATION INVERT ELEVATION INVERT ELEVATION CIGHT POLE METAL END SECTION POST INDICATOR VALVE PAVED WATER WAY POLYVINYLCHLORIDE PIPE
Utility         CB         CMP         CO         DCB         DMH         CIP         COND         CIP         FAG         FAQ         FAQ         FAQ         GI         HDPE         HH         HVD         INV         I=         LP         MES         PIV         PWW         PVC         R=	CATCH BASIN CORRUGATED METAL PIPE CLEANOUT DOUBLE CATCH BASIN DOUBLE CATCH BASIN DOUBLE CATCH BASIN CAST IRON PIPE CAST IRON PIPE CONDUIT DUCTILE IRON PIPE FLARED END SECTION FRAME AND GRATE FRAME AND GRATE FRAME AND COVER GUTTER INLET GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE GREASE TRAP HIGH DENSITY POLYETHYLENE PIPE HANDHOLE HEADWALL HEADWALL INVERT ELEVATION INVERT ELEVATION INVERT ELEVATION INVERT ELEVATION CIGHT POLE METAL END SECTION POST INDICATOR VALVE POLYVINYLCHLORIDE PIPE REINFORCED CONCRETE PIPE

TAPPING SLEEVE, VALVE AND BOX

UNDERGROUND

UTILITY POLE

TSV

UP

# Notes

# General

- 1. THE PURPOSE OF THESE SITE PLANS ARE TO SUPPORT THE PERMITTING DOCUMENTS FOR THE PROJECT.
- 2. CONTRACTOR SHALL NOTIFY "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING. 3. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- 4. ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).
- 5. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE 6 INCHES LOAM AND SEED.
- 6. WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, THE SITE CONTRACTOR SHALL PERFORM EARTHWORK OPERATIONS REQUIRED UP TO SUBGRADE ELEVATIONS.
- WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE STATE HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
- 8. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.
- 9. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 10. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- 11. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
- 12. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
- 13. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- 14. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.
- 15. THIS PROJECT DISTURBS MORE THAN ONE ACRE OF LAND AND FALLS WITHIN THE NPDES CONSTRUCTION GENERAL PERMIT (CGP) PROGRAM AND EPA JURISDICTION. PRIOR TO THE START OF CONSTRUCTION CONTRACTOR IS TO FILE A CGP NOTICE OF INTENT WITH THE EPA AND PREPARE A STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE NPDES REGULATIONS. CONTRACTOR SHALL CONFIRM THE OWNER HAS ALSO FILED A NOTICE OF INTENT WITH THE EPA.

## Utilities

- 1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK. OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE DWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT AND CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
- 3. SET CATCH BASIN RIMS, AND INVERTS OF SEWERS, DRAINS, AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE GRADING AND UTILITY PLANS.
- 4. RIM ELEVATIONS FOR DRAIN AND SEWER MANHOLES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND OTHER SUCH ITEMS, ARE APPROXIMATE AND SHALL BE SET/RESET AS FOLLOWS
  - A. PAVEMENTS AND CONCRETE SURFACES: FLUSH
  - B. ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
  - C. LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER EARTH TO THE RIM ELEVATION.
- 5. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT.
- CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITIES COMPANY.
- 7. UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN:
  - A. WATER PIPES SHALL BE HDPE CTS 250PSI PIPE AND COMPLY WITH REGULATIONS AND STANDARDS OF THE DERRY, NH WATER DEPARTMENT.
  - B. SANITARY SEWER PIPES SHALL BE POLYVINYL CHLORIDE (PVC) SEWER PIPE
  - C. STORM DRAINAGE PIPES SHALL BE SMOOTH INTERIOR DUAL WALL HIGH DENSITY POLYETHYLENE (HDPE)
  - D. PIPE INSTALLATION AND MATERIALS SHALL COMPLY WITH THE STATE PLUMBING CODE WHERE APPLICABLE. CONTRACTOR SHALL COORDINATE WITH LOCAL PLUMBING INSPECTOR PRIOR TO BEGINNING WORK.
- 8. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED SITEWORK RELATED ITEMS SUCH AS PULL BOXES, CONDUITS, DUCT BANKS, LIGHT POLE BASES, AND CONCRETE PADS. SITE CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS INDICATED ON THE DRAWINGS.
- 9. CONTRACTOR SHALL EXCAVATE AND BACKFILL TRENCHES FOR GAS IN ACCORDANCE WITH GAS COMPANY'S REQUIREMENTS.
- 10. ALL DRAINAGE AND SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN.) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS AND LOCAL MUNICIPAL STANDARDS. FOR MANHOLES THAT ARE 20 FEET IN DEPTH AND GREATER, THE MINIMUM DIAMETER SHALL BE 5 FEET.

## Layout and Materials

- PLANS.

## Demolition

- REPRESENTATIVES.
- WORK
- OR OTHER HAZARDOUS MATERIALS.

## Erosion Control

- TO PREVENT EROSION.

# **Existing Conditions Information**

## Document Use

- SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- FEATURES.

DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.

2. CURB RADII ARE THREE FEET UNLESS OTHERWISE NOTED.

3. CURBING SHALL BE VERTICAL GRANITE CURB WITHIN THE SITE UNLESS OTHERWISE INDICATED ON THE

4. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.

5. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LAND SURVEYOR.

6. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.

1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON THE DRAWINGS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS.

EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY

3. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.

4 THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING ITS BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE

UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES OR POLLUTANTS AT THE PROJECT SITE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS, DAMAGE, EXPENSE, DELAY, INJURY OR DEATH ARISING FROM THE PRESENCE OF HAZARDOUS MATERIAL AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOREOVER, THE ENGINEER SHALL HAVE NO ADMINISTRATIVE OBLIGATIONS OF ANY TYPE WITH REGARD TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF ASBESTOS

1. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.

CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A WEEKLY BASIS (MINIMUM) OR AS REQUIRED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL ADDRESS DEFICIENCIES AND MAINTENANCE ITEMS WITHIN TWENTY-FOUR HOURS OF INSPECTION. CONTRACTOR SHALL PROPERLY DISPOSE OF SEDIMENT SUCH THAT IT DOES NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.

3. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.

4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED

UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.

BASE PLAN: THE PROPERTY LINES SHOWN WERE DETERMINED BY AN ACTUAL FIELD SURVEY CONDUCTED BY VHB, INC. THE TOPOGRAPHY AND PHYSICAL FEATURES ARE BASED ON AN ACTUAL FIELD SURVEY PERFORMED ON THE GROUND BY VHB, INC. IN APRIL 2022 AND FEBRUARY 2023/

A. DELINEATION OF THE WETLANDS AND PLACEMENT OF THE FLAGS WAS PERFORMED BY VHB,

B. FLAGS MARKING THE WETLANDS WERE LOCATED BY: SENIOR ENVIRONMENTAL SCIENTIST, KRIS WILKES (NH CWS #288) ON FEBURARY 17, 2022.

2. TOPOGRAPHY: ELEVATIONS ARE BASED ON NAVD OF 1988.

GEOTECHNICAL DATA INCLUDING TEST PIT AND BORING LOCATIONS AND ELEVATIONS WERE OBTAINED FROM A REPORT TITLE "EXPLORATIONS AND PRELIMINARY GEOTECHNICAL ENGINEERING SERVICES" PUBLISHED BY S.W. COLE ON MARCH 17, 2022.

1. THESE PLANS AND CORRESPONDING CADD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE, AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED, WRITTEN CONSENT OF VHB. ANY UNAUTHORIZED USE, REUSE, MODIFICATION OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO VHB.

2. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE

SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT



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# **Proposed Chipotle**

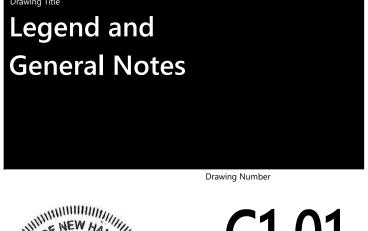
55 Crystal Ave Derry, NH 03038

No.	Revision	Date	Appvd.
1	TRC RESPONSE TO COMMENTS	4/7/2023	DHF
2	TRC RESPONSE TO COMMENTS	5/2/2023	DHF
3	TRC RESPONSE TO COMMENTS	5/19/2023	DHF

# SJF Issued for

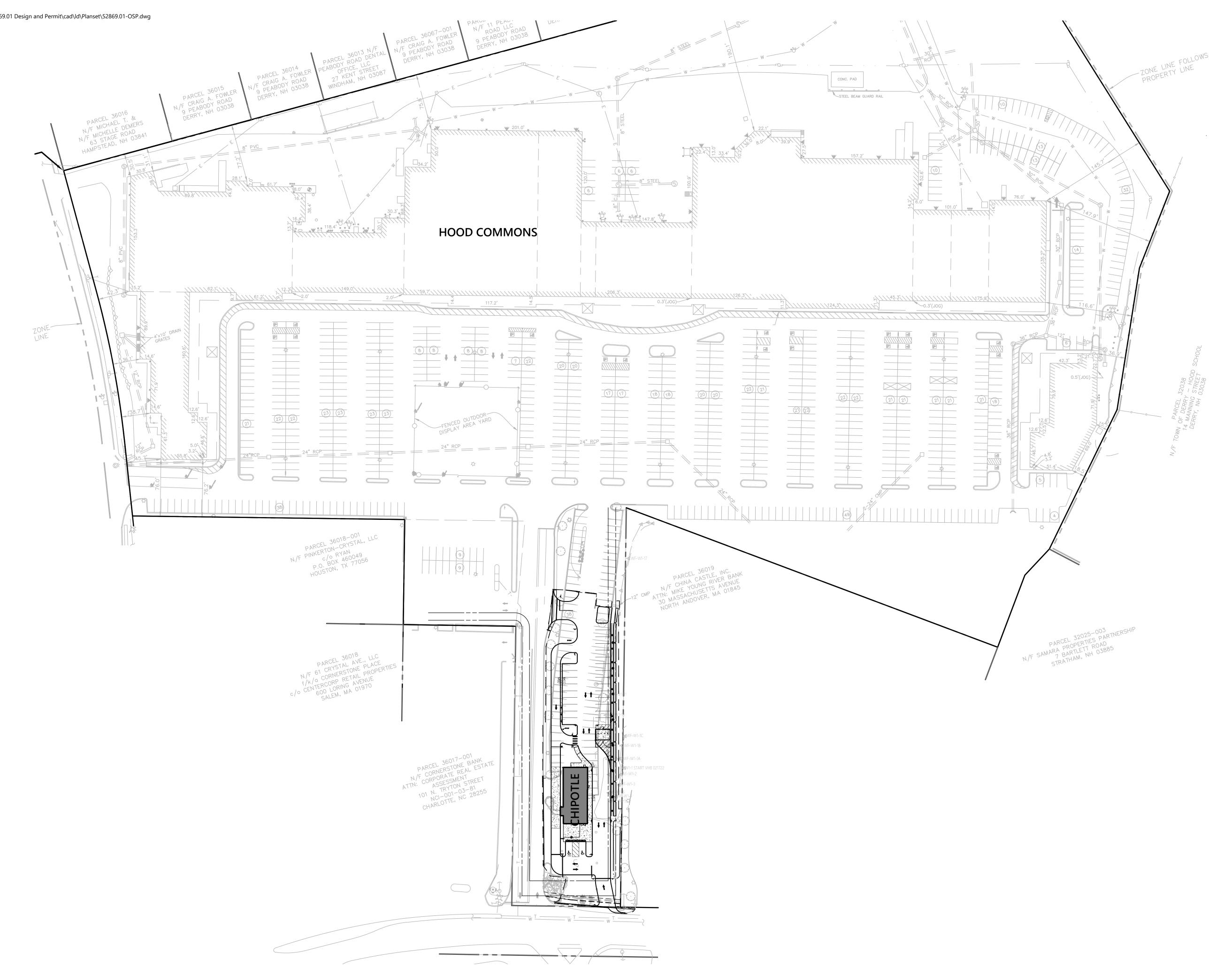
TRC Review

February 23, 2023











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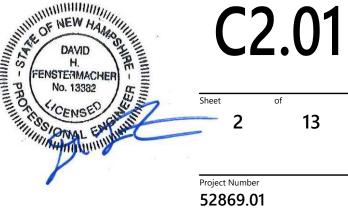


# Proposed Chipotle 55 Crystal Ave Derry, NH 03038

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Designed by	Checked by
SJF	DHF
ssued for	Date
TRC Review	February 23, 2023





# DIRECTIONAL SIGN (BY OTHERS) ————

20' SIDE YARD SETBACK

CONNECT TO EXISTING SIDEWALK —

SITE LIGHTING

(SEE SL PLANS) —

ANNOUNCEMENT SIGN (BY OTHERS) -RETAIN

EXISTING SIDEWALK -UTILITY EASEMENT <sup>5</sup>ISLAND —

> SP-1 BOLLARD

SP-2 ——

SP-3 SP-4 -----CLEARANCE BAR (BY OTHERS) -R1-1 R3-1 —

RELOCATE EXISTING LIGHT POLE -----BOLLARD (TYP) -CONNECT TO EXISTING CURBING —

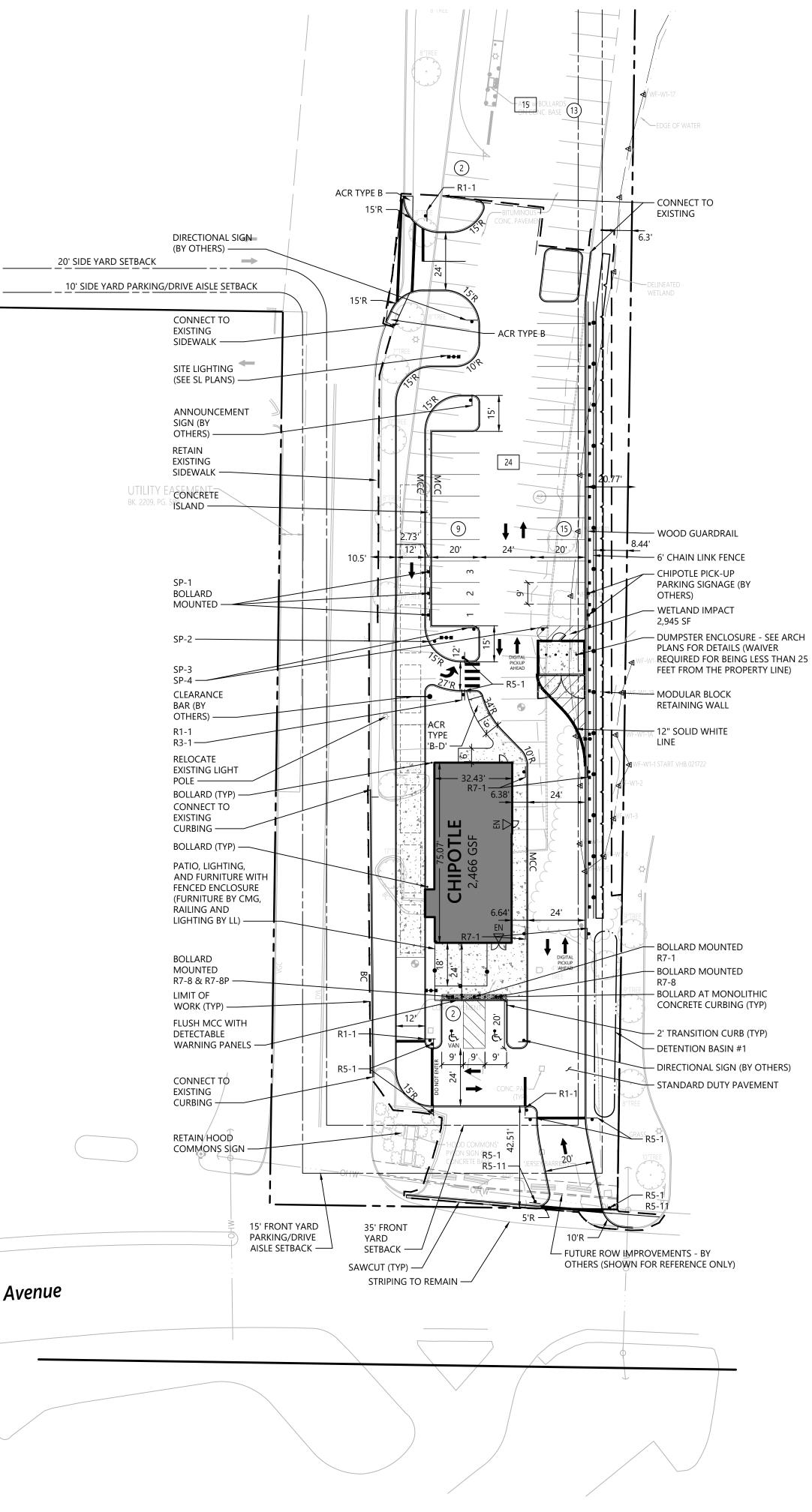
BOLLARD (TYP) — PATIO, LIGHTING, AND FURNITURE WITH FENCED ENCLOSURE (FURNITURE BY CMG, RAILING AND

BOLLARD MOUNTED R7-8 & R7-8P -LIMIT OF WORK (TYP) — FLUSH MCC WITH DETECTABLE

CONNECT TO EXISTING CURBING +

RETAIN HOOD COMMONS SIGN —

Crystal Avenue



Descrip STANDAR STANDAR VAN ACCE TOTAL SPA

# Zonin

Overl Zonir MINIMU FRONT FRONT SIDE YA REAR Y FRONT SIDE YA MINIM WETLA \* Zoning



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## 0 15 30 60 Feet

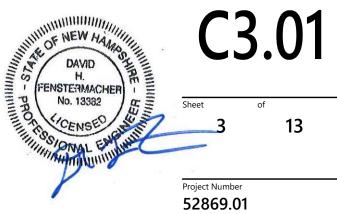
# **Proposed Chipotle** 55 Crystal Ave Derry, NH 03038

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Designed by SJF	Checked by DHF
Issued for	Date
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Not Approved for Construction

Layout and **Materials** Plan Drawing Number



Sign	Summary

M.U.T.C.D.	Specif		
Number		Height	Desc.
R1-1	30"	30"	STO
R3-1	24″	24″	R
R5-1	30"	30"	DO NOT ENTER
R5-11	30"	24"	AUTHORIZE VEHICLES ONLY
R7-1	12"	18"	NO PARKIN ANY TIME
R7-8	12"	18"	RESERVED PARKING
R7-8P	12"	6"	VAN ACCESSIBL
W11-2	30″	30″	X
W16-7P	24"	12"	
SP-1*	12"	18"	ORDER PICH UP PARKING ONLY
SP-2*	12"	18"	PICK UP LAN EMERGENCY EXIST
SP-3	12"	18"	ACCESSIBLI PARKING AHEAD ONL
SP-4	12"	18"	NO EXIT TO CRYSTAL AVENUE

\* BY OTHERS

Parking Requ	uirements	•					
RESTAURANT	2,466 SF	х	1 SPACES	/	60 SF	=	41 SPACES
	8 EMP	х	1 SPACES	/	1 EMP	=	8 SPACES
TOTAL PARKING REQUIRED = 49 SPACES							
* 40 INTERIOR SEATS AND 20 EXTERIOR SEATS							

# **Parking Summary Chart**

	Size		Spaces	
ption	Required	Provided	Required	Provided
RD SPACES	9 x 20	9 x 20	47	24
RD ACCESSIBLE SPACES *	9 x 20	9 x 20	1	1
CESSIBLE SPACES*	9 x 20	9 x 20	1	1
PACES			49	26**
G SPACES	-	-	6	8

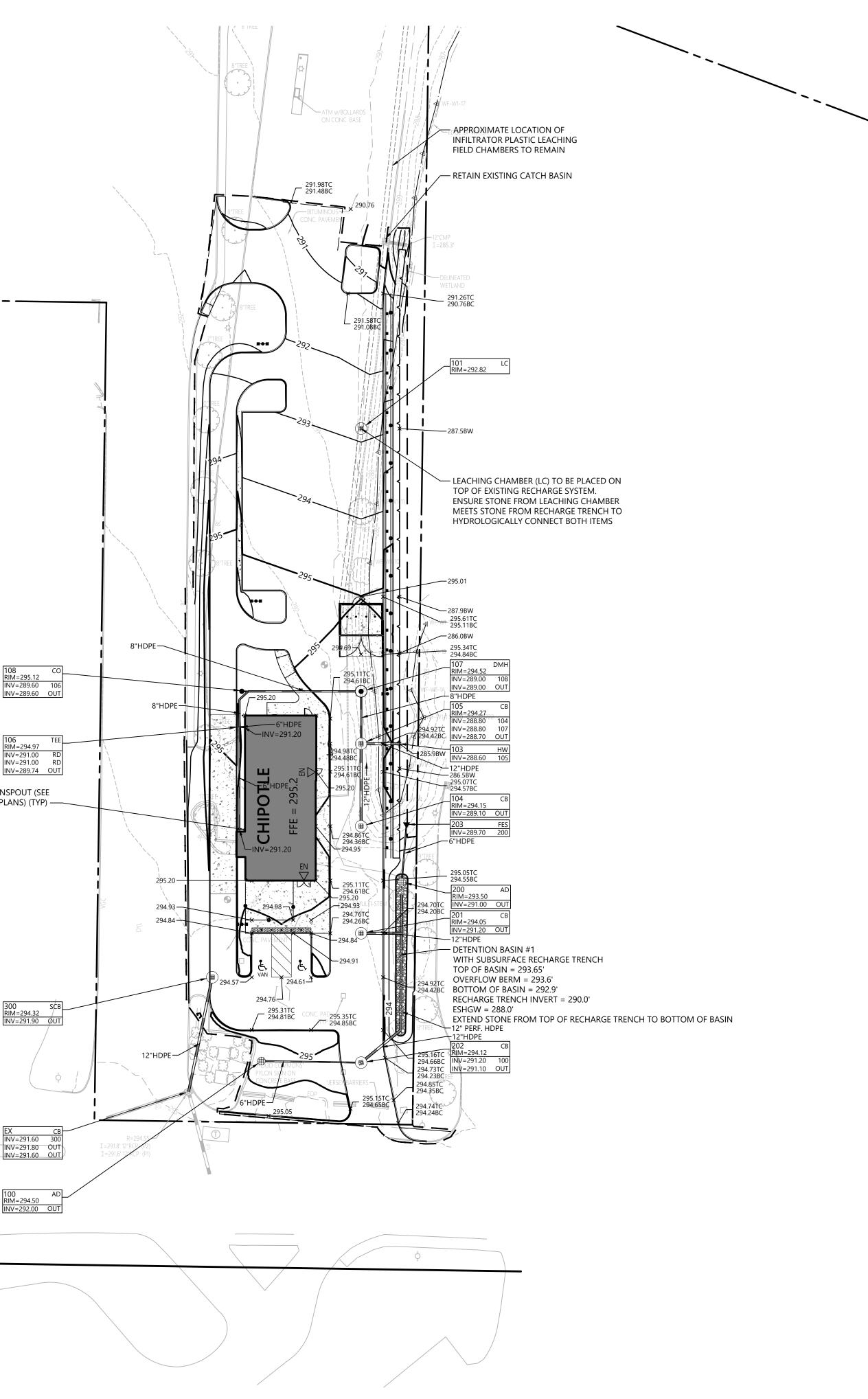
\* ADA/STATE/LOCAL REQUIREMENTS \*\* WAIVER REQUESTED

# Zoning Summary Chart

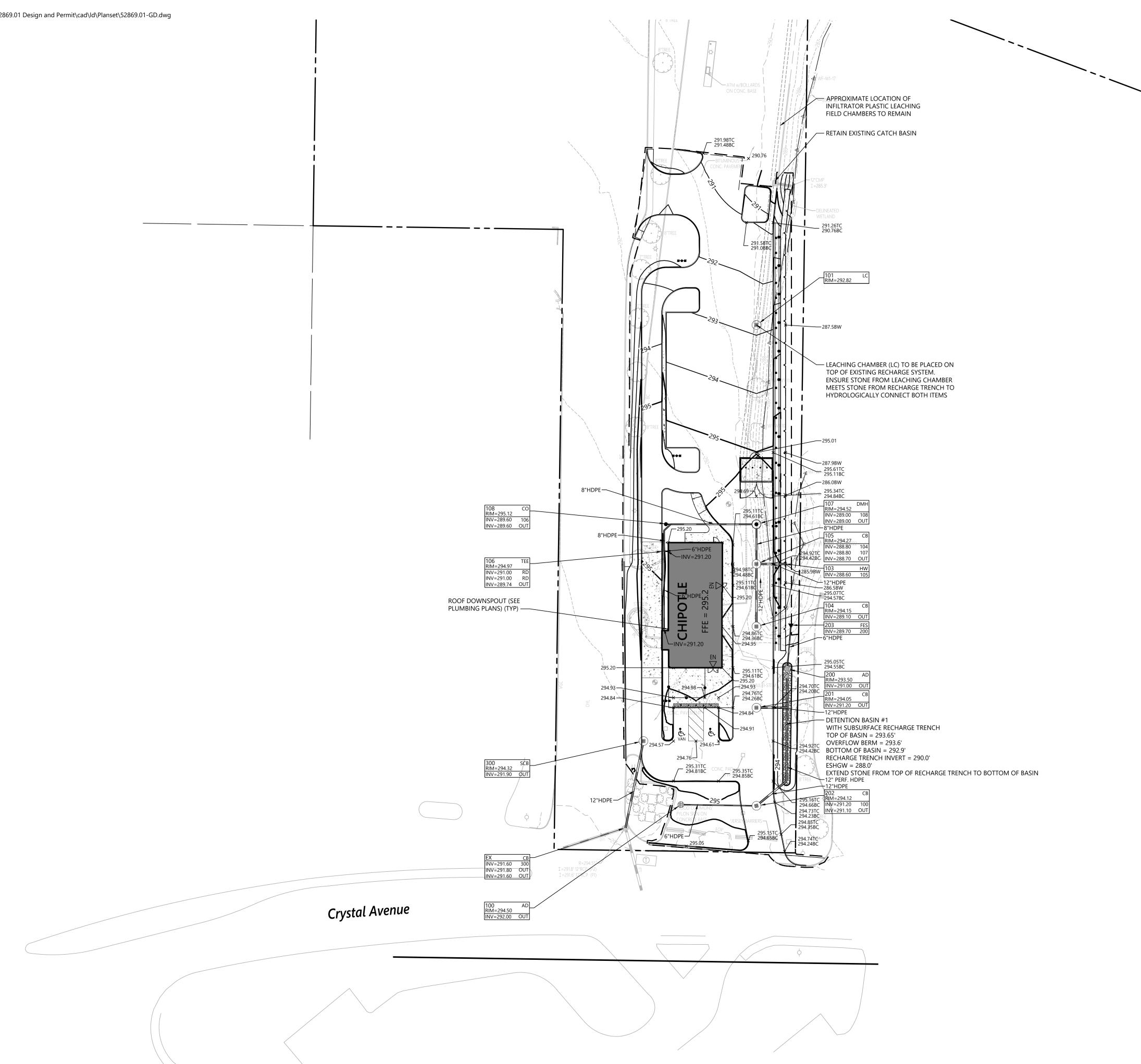
Zoning District(S):	General Comm	ercial
Overlay District(S):	Wetland Conse	rvation District
Zoning Regulation Requirements	Required*	Provided
MINIMUM LOT AREA	30,000 SF	23.3 Acres
FRONTAGE	125.0 Feet	144.8 Feet
FRONT YARD SETBACK	35 Feet	96 Feet
SIDE YARD SETBACK	20 Feet	51.2 Feet
REAR YARD SETBACK	20 Feet	> 20 Feet
FRONT YARD PARKING/DRIVE AISLE SETBACK	15 Feet	34 Feet
SIDE YARD PARKING/DRIVE AISLE SETBACK	10 Feet	20.77 Feet
MINIMUM INTERIOR LANDSCAPE AREA	5%	13.9%
WETLAND BUILDING SETBACK	75 Feet	38.6 Feet**
* Zoning regulation requirements as specified in the To 2021, Section 165-32 GC - General Commercial District		nce dated December 16,

\*\*Variance granted by the Town of Derry Zoning Ordinance (Case #22-125 - April 7, 2022)

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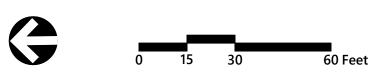


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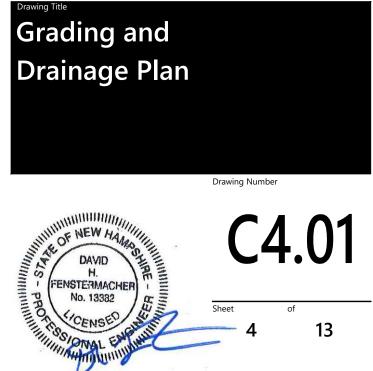
# **Proposed Chipotle** 55 Crystal Ave Derry, NH 03038

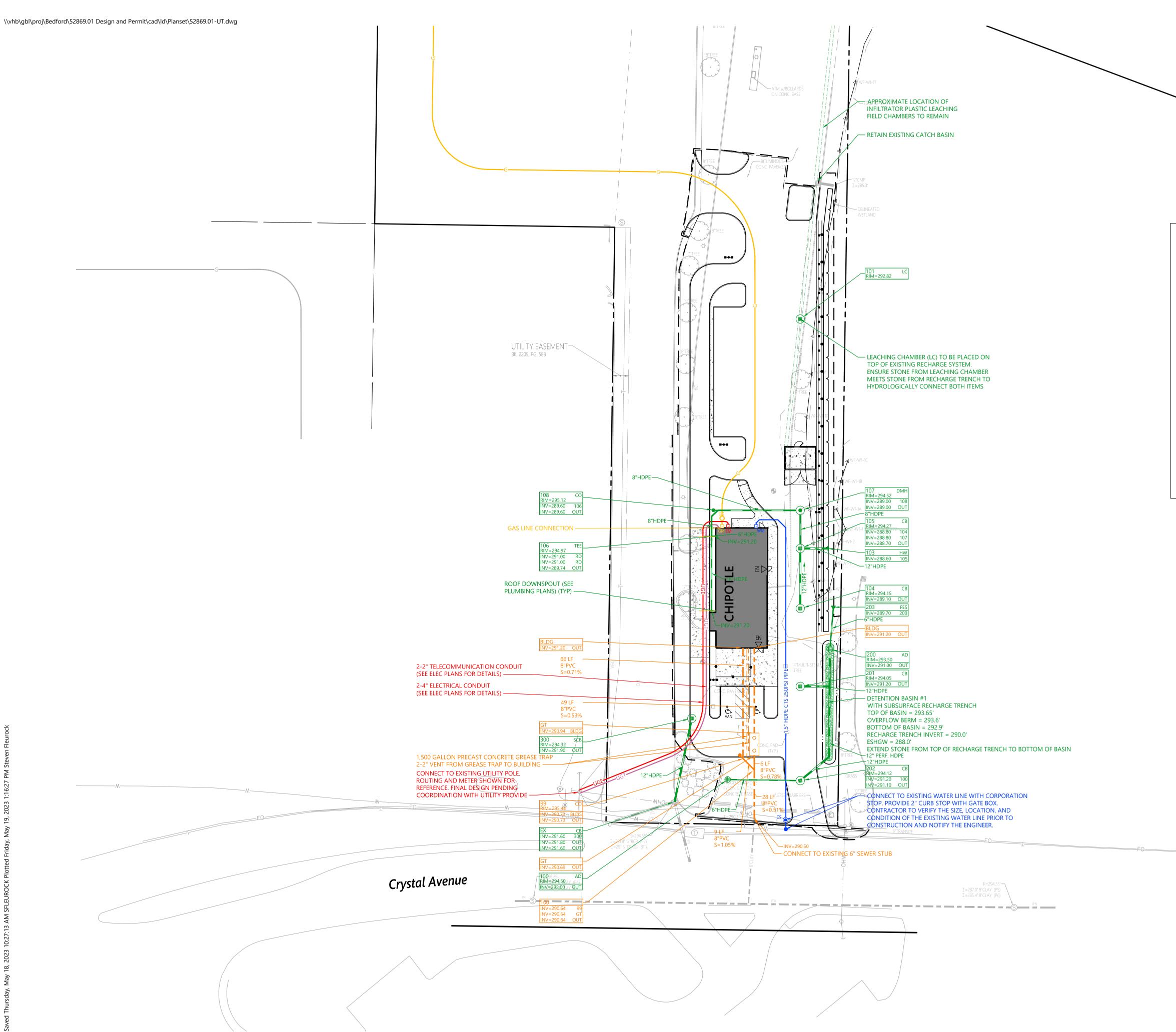
No. Revision

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esigned by	Checked by
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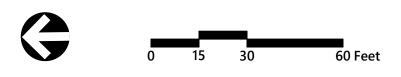






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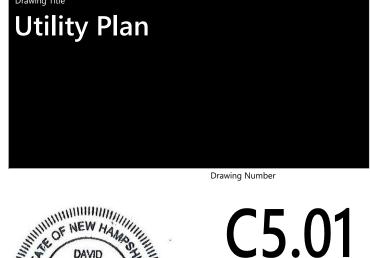




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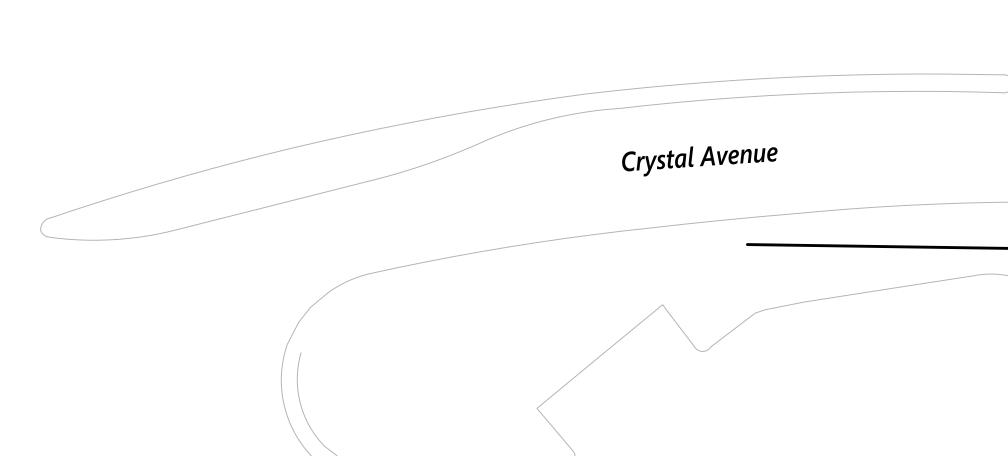
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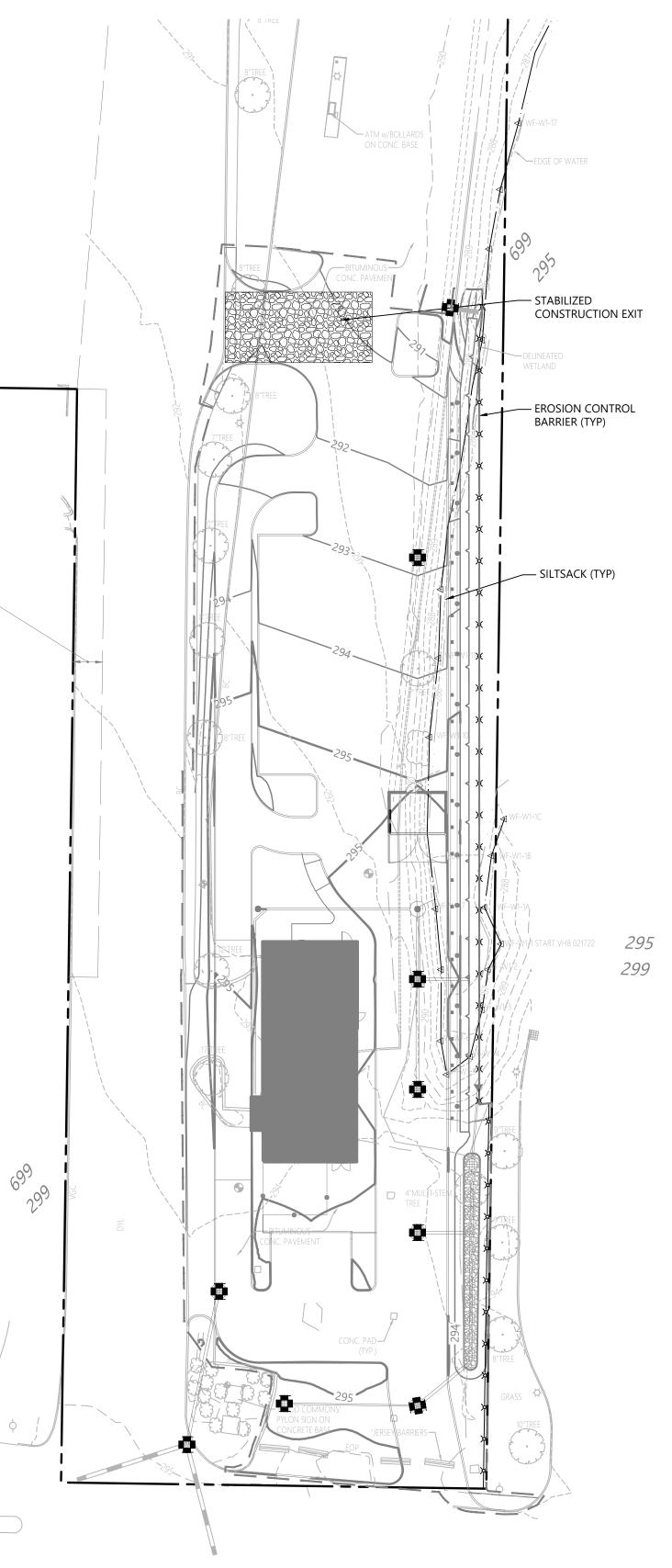




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UTILITY EASEMENT BK. 2209, pg. 588

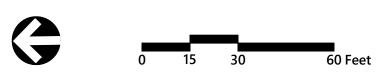




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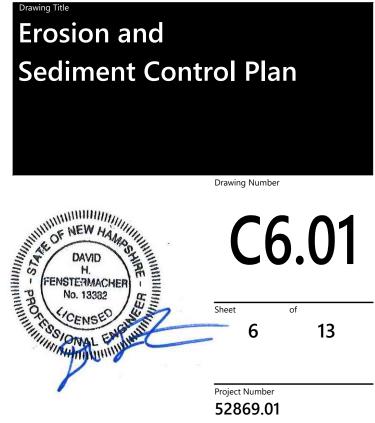
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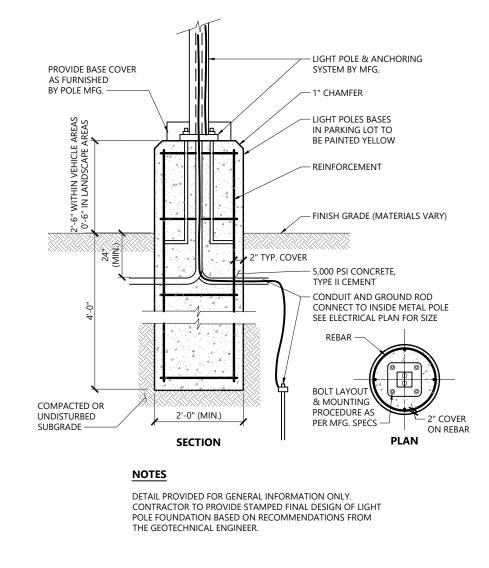


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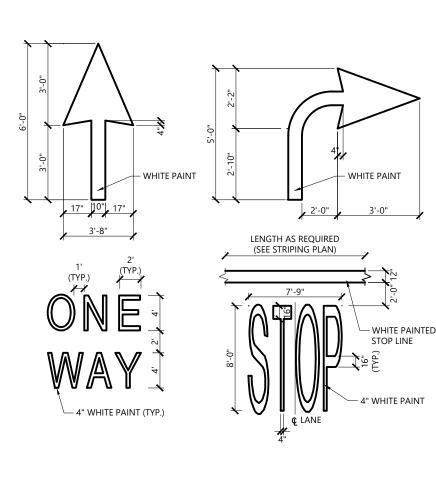
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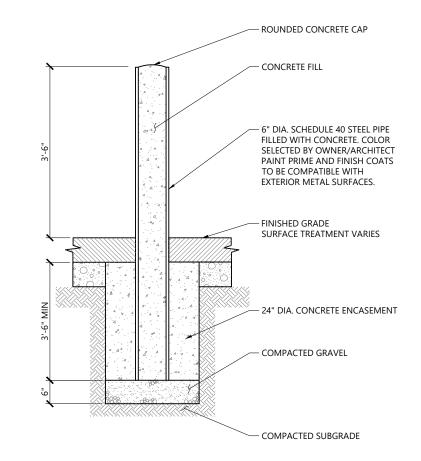




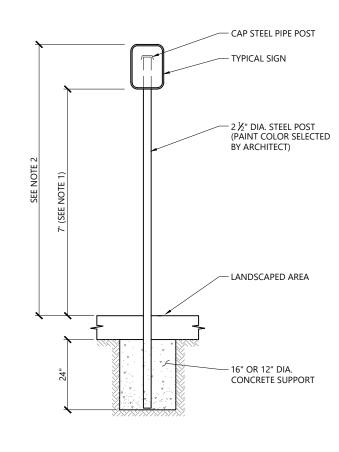


NOTES 1. PAVEMENT MARKINGS TO BE INSTALLED FOR ON SITE WORK IN LOCATIONS SHOWN.

Painted Pavement Markings - On Site N.T.S. Source: VHB LD\_554

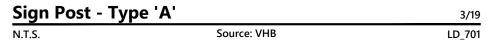






1. THIS DIMENSION SHALL BE A MINIMUM OF 5' FOR ACCESSIBLE SIGNAGE.

2. THIS DIMENSION SHALL BE A MAXIMUM OF 8' FOR ACCESSIBLE SIGNAGE



12/19

LD\_310A

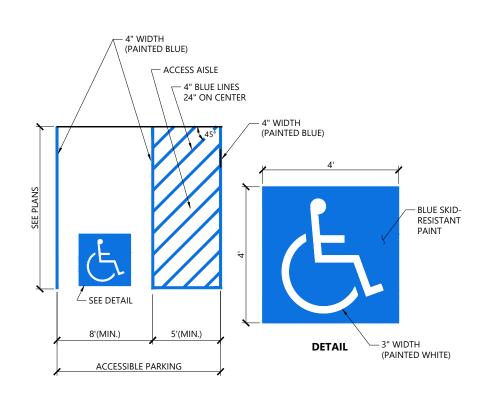
LANDSCAPE AREA (TYP.) ZINSITION MIN

> BOTTOM OF RAMP TO BE LEVEL WITH ADJACENT SURFACE. SEE NOTE 9.

## NOTES

- 1. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 1.5 (1% MIN.).
- 2. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%. 3. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE AT CURB RAMPS SHALL BE 7.5%.
- A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
- 5. CURB TREATMENT VARIES, SEE PLANS FOR CURB TYPE.
- 6. RAMP, CURB AND ADJACENT PAVEMENTS SHALL BE GRADED TO PREVENT PONDING.
- 7. SEE TYPICAL SIDEWALK SECTION FOR RAMP CONSTRUCTION.
- WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5' x 5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FEET. ELIMINATE CURBING AT RAMP WHERE IT ABUTS ROADWAY, EXCEPT WHERE VERTICAL CURBING IS INDICATED ON THE DRAWINGS TO BE INSTALLED AND SET FLUSH.

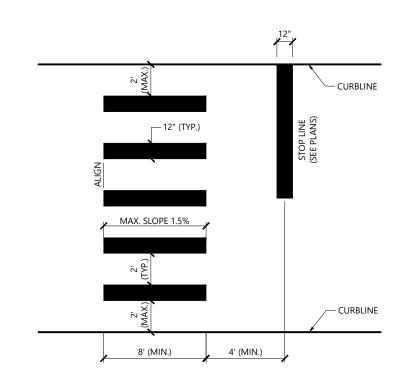
Source: VHB



## NOTES

1/16

- 1. ALL DIMENSIONS TO CENTER OF 4" PAVEMENT STRIPING.
- 2. ALL SLOPES THROUGHOUT THE ACCESSIBLE PARKING AND AISLE AREAS SHALL NOT EXCEED 1.5%.



# NOTES

Crosswalk

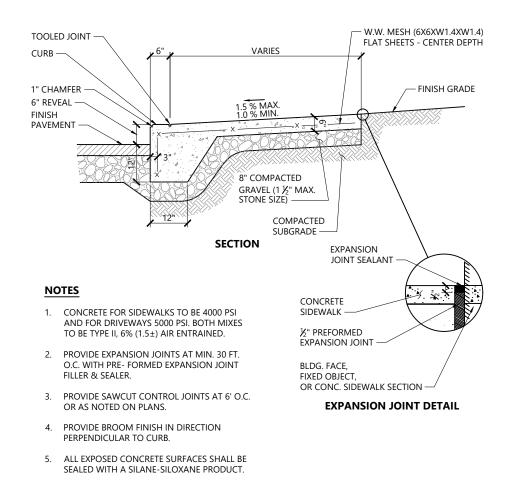
N.T.S.

- 1. TWELVE INCH (12") LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO - 6 INCH LINES) WILL BE ACCEPTED.
- 2. LONGITUDINAL CROSSWALK LINES TO BE PARALLEL TO CURBLINE.
- ALL LONGITUDINAL CROSSWALK LINES SHALL BE THE SAME LENGTH AND PROPERLY ALIGNED.

Source: VHB

4. CROSS WALK SIDESLOPE SHALL NOT EXCEED 1.5%.

<image/>		Source: VHB	LD_552/
<ul> <li>THIS DIMENSION SHALL BE A MINIMUM OF 5' FOR ACCESSIBLE SIGNAGE.</li> <li>THIS DIMENSION SHALL BE A MAXIMUM OF 5' FOR</li> </ul>			
ACCESSIBLE SIGNAGE. 2. THIS DIMENSION SHALL BE A MAXIMUM OF 8' FOR	SEE NOTE 2	2 ½" DIA. STEEL POST (PAINT COLOR SELECTED BY ARCHITECT) BY ARCHITECT) BOLLARD (SEE DETAIL)	
		ACCESSIBLE SIGNAGE. THIS DIMENSION SHALL BE A MAXIMUM OF 8' FOR	



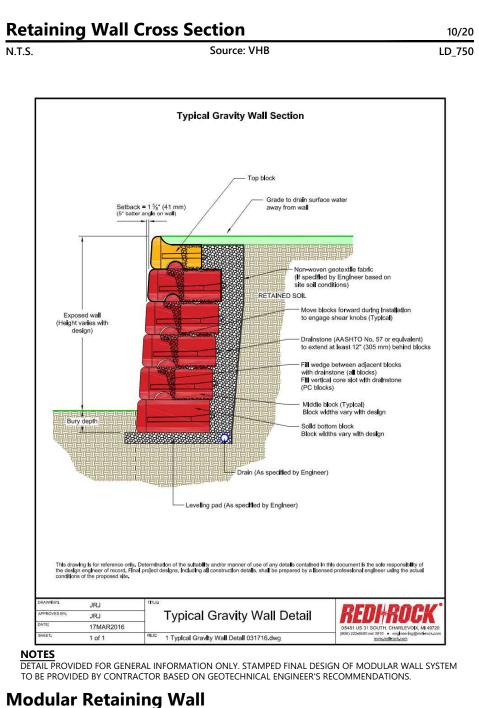
Monolithic	Concrete Curb (MCC) & Sidewalk	3/20
N.T.S.	Source: VHB	LD_421

2" 6"

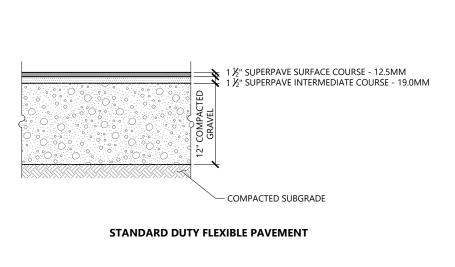
12/19

N.T.S.

LD\_553A



Source: Redi-Rock



NOTES

PAVEMENT SECTIONS ARE SUBJECT TO CHANGE AND WILL BE BASED ON THE RESULTS OF FURTHER GEOTECHNICAL INVESTIGATIONS.

Bituminous	<b>Concrete Pavement Sections</b>
N.T.S.	Source: VHB

**Bituminous Curb (BC)** N.T.S.

11/19

LD\_430

SURFACE TREATMENT

VARIES —

SLOPE VARIES

Source: VHB

COMPACTED GRAVEL

(1½" MAX STONE SIZE)

NOTES

ALL CURBING TO BE MACHINE EXTRUDED

1/16 LD\_406

— 2" RADIUS (TYP.)

- BITUMINOUS

CONC. PAVEMENT

CONC. PAVEMENT

(BINDER COURSE)

(TOP COURSE)

- BITUMINOUS

- COMPACTED

- COMPACTED

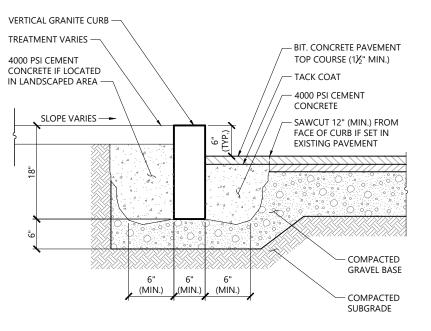
SUBGRADE

GRAVEL

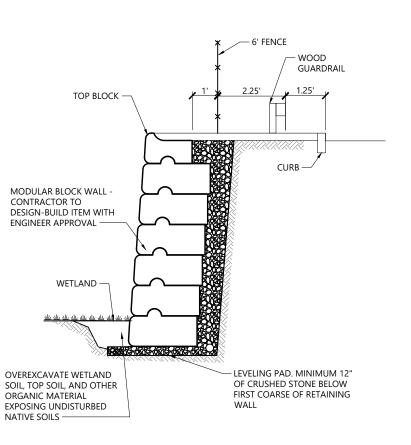
N.T.S.



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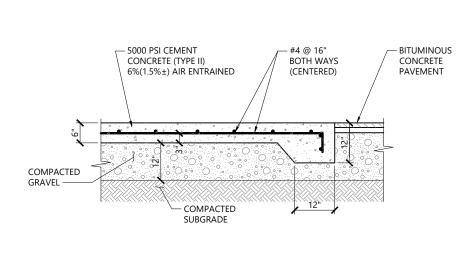


# **Proposed Chipotle**

# 55 Crystal Ave Derry, NH 03038

о.	Revision	Date	Appvo
	TRC RESPONSE TO COMMENTS	4/7/2023	DHF
2	TRC RESPONSE TO COMMENTS	5/2/2023	DHF
3	TRC RESPONSE TO COMMENTS	5/19/2023	DHF
esign	SJF	Checked by D	HF
sued	for	Date	
<b>IO</b> Draw	C Review t Approved for Constru	February 23, ction	2023
<b>VO</b> Draw	t Approved for Constru	-	2023
<b>VO</b> Draw	t Approved for Constru	-	2023





NOTES

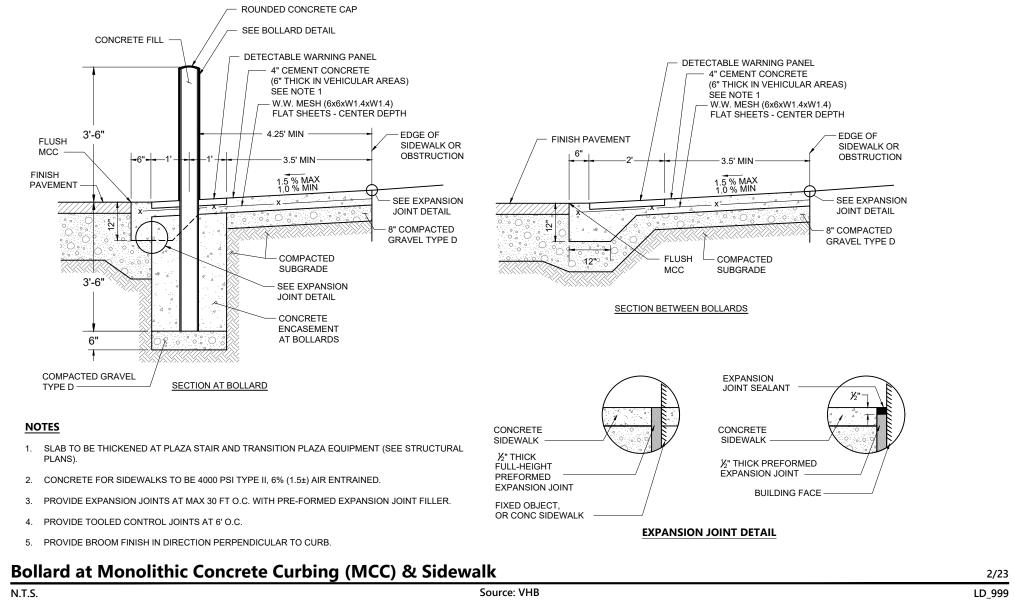
1. SIZE OF PAD TO BE AS INDICATED ON PLANS.

WIDTH OF THE PAD.

2. CONSTRUCTION JOINTS SHALL BE SPACED NO MORE THAN 30 FEET ON CENTER AND SHALL BE EQUALLY SPACED OVER THE LENGTH AND

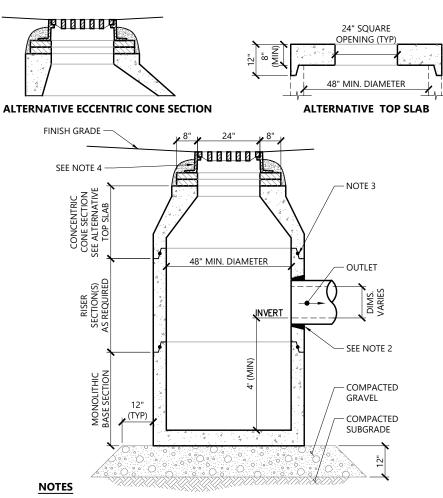
Source: VHB

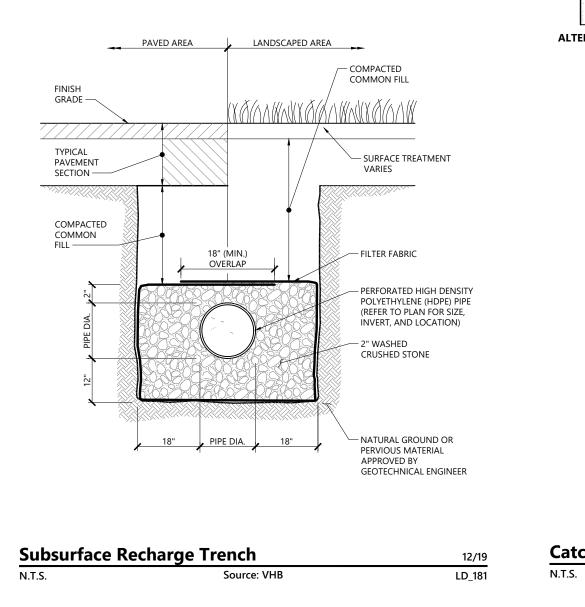
# Dumpster Pad

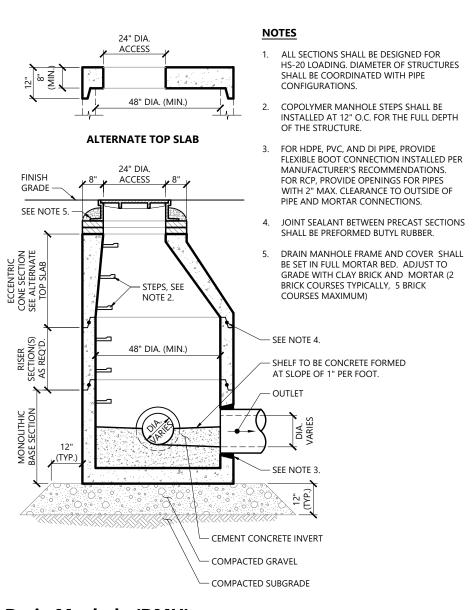


1/16

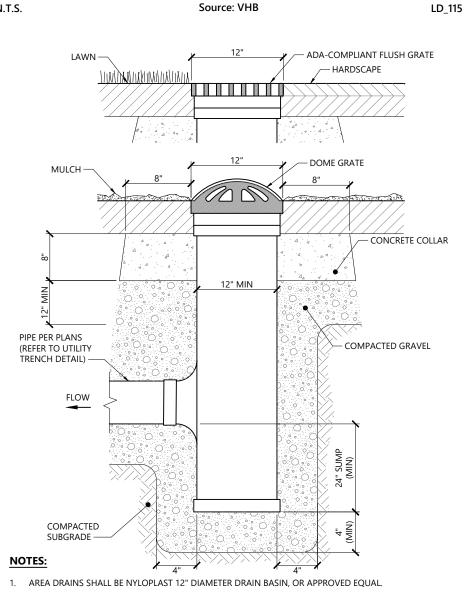
LD\_710







Drain Manhole (DMH) N.T.S.



Source: VHB

NOTES: Area Drain (AD) Type 1 N.T.S.



1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.

2. FOR HDPE, PVC, AND DI PIPE, PROVIDE FLEXIBLE BOOT CONNECTION INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. FOR RCP, PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE AND MORTAR CONNECTIONS.

3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER. 4. CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).

Source: VHB

11/19

11/19

12/19 LD\_193

LD\_100

Catch Basin (CB)

GRATES SHALL BE NYLOPLAST 12" PEDESTRIAN MODEL 1299CGP OR 12" DOME GRATE MODEL 1299CGD (OR APPROVED EQUAL).

3. WHEN AREA DRAIN GRATE IS SET ABOVE GRADE, ALL VISIBLE PIPE SHALL BE BLACK



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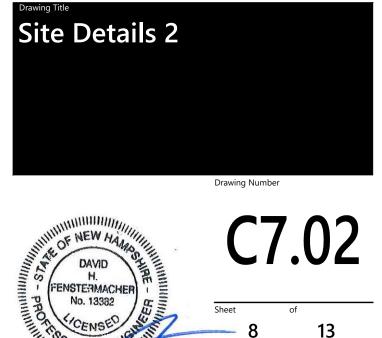
# Proposed Chipotle

# 55 Crystal Ave Derry, NH 03038

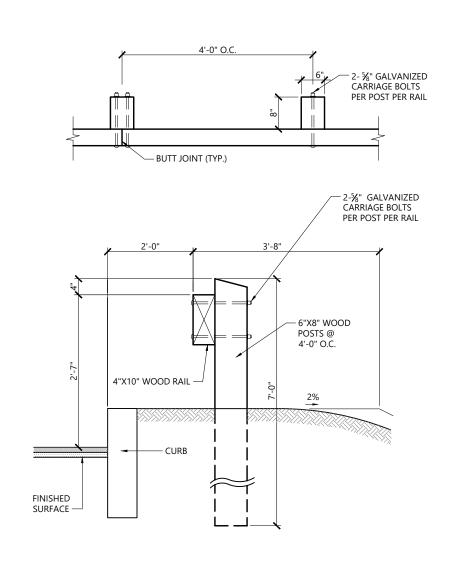
No.	Revision	Date	Appvd.
1	TRC RESPONSE TO COMMENTS	4/7/2023	DHF
2	TRC RESPONSE TO COMMENTS	5/2/2023	DHF
3	TRC RESPONSE TO COMMENTS	5/19/2023	DHF

TRC Review	February 23, 2023
Issued for	Date
Designed by SJF	Checked by DHF

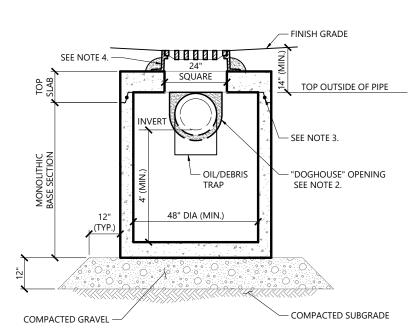
Not Approved for Construction



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Wood Guardrail	
N.T.S.	Source: VHB



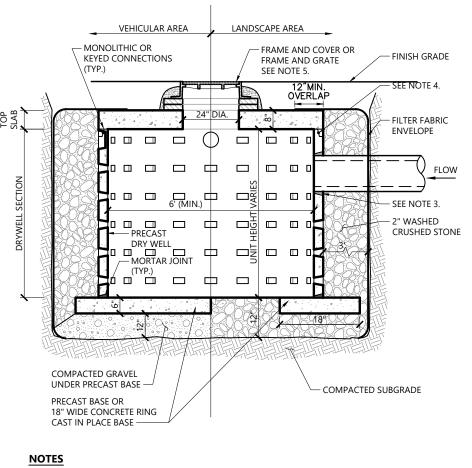
NOTES

10/20

LD\_450

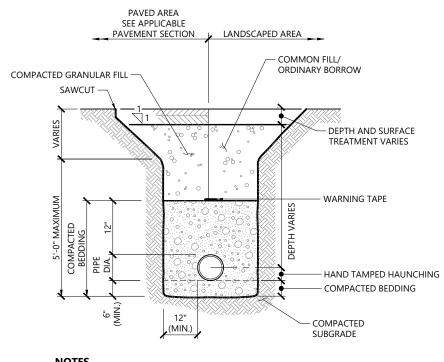
- 1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
- 2. PROVIDE DOGHOUSE OPENING FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. TOP SLAB SHALL NOT REST DIRECTLY ON PIPE. GROUT ALL PIPE CONNECTIONS (NON-SHRINK GROUT).
- 3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
- 4. CATCH BASIN FRAME AND GRATE (4"DEPTH) SHALL BE SET IN FULL MORTAR BED.
- 5. ADJUST TO FINISH GRADE WITH CLAY BRICK AND MORTAR AS REQUIRED.

### Catch Basin (CB) Shallow Cover with Oil/Debris Trap 1/16 N.T.S. Source: VHB LD\_105



- 1. BASE SECTION SHALL BE PRECAST CONCRETE WITH MORTARED JOINTS OR CAST IN PLACE.
- 2. ALL COMPONENTS SHALL BE DESIGNED FOR HS-20 LOADING. 3. PROVIDE PRECAST OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE.
- MORTAR ALL PIPE CONNECTIONS.
- 4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
- 5. FRAME AND COVER OR GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSE MINIMUM, 5 BRICK COURSE MAXIMUM)

12/19 Leaching Chamber (LC) LD\_180 N.T.S. Source: VHB N.T.S.



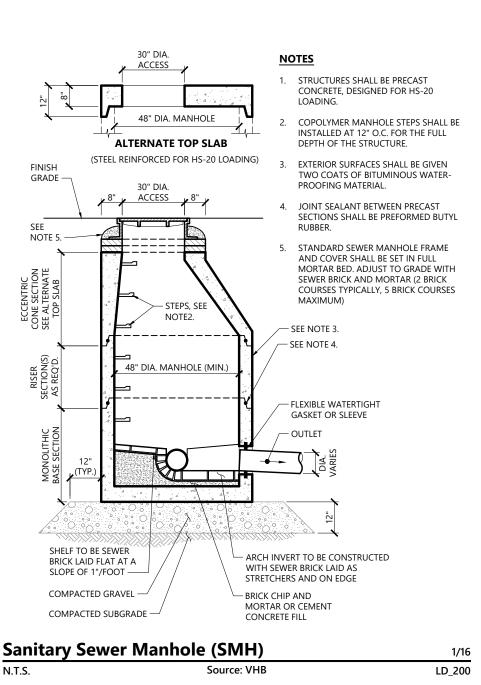
## NOTES

1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.

- 2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.
- 3. COMPACTED GRANULAR FILL MAY CONSIST OF GRAVEL, CRUSHED STONE,
- SAND, OR OTHER MATERIAL AS APPROVED BY ENGINEER. 4. WATER LINE SHALL BE A 1.5" HDPE CTS 250PSI PIPE WITH 10 GAUGE WIRE
- FASTENED TO IT FOR LOCATING FROM THE TAP TO THE METER.

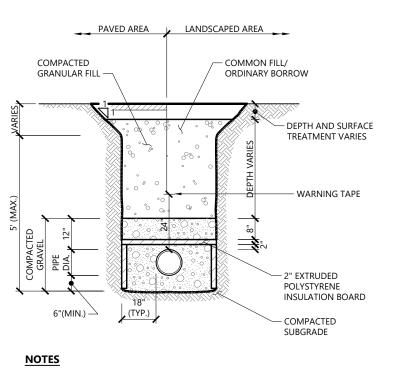
Utility Trench		11/19	Utility - Pipe
N.T.S.	Source: VHB	LD_300	N.T.S.
	13' - 0"		
INLET	30" DIA. OPENING TO BE LOCATED OVER TEES (TVP.)		OUTLET OUTLET
MANHOLE RISER	PLAN VIEW		
W/FRAME AND COVER (TYP.) SEE NOTE 4.			4' DIA. MA RISER TO E ON GROU
			OUTLET
		ALTERNATE OUTLET	
SEE NOTE 2.	<b>∖\</b>	HEAT STAINLESS STEEL BRACKET (TYP.)	
			12" (TYP.)
COMPACTED SUBGRADE ——	SECTION	СОМРАСТ	ED GRAVEL

## Precast Concrete Grease Trap (GT) N.T.S.





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- 1. SEWER LINE SHALL BE INSULATED WHEN COVER IS LESS THAN FOUR (4) FEET AND WHERE SHOWN ON PLANS.
- 2. WATER LINE SHALL BE INSULATED WHEN COVER IS LESS THAN FIVE (5)

FEET AND WHERE SHOWN ON PLANS.

3. BACKFILL PLACED IN UTILITY TRENCHES INCLUDING DISTURBED AREAS SURROUNDING UTILITY TRENCHES SHALL BE PLACED AND COMPACTED IN 12" (MAX.) VERTICAL LIFTS.

Source: VHB

# **Utility - Pipe Insulation**

12/19 LD\_305

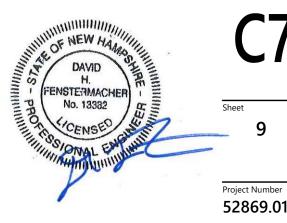




# NOTES

- 1. STRUCTURE SHALL BE DESIGNED FOR HS-20 LOADING. 2. EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF
- BITUMINOUS WATER-PROOFING MATERIAL. 3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL
- BE PREFORMED BUTYL RUBBER. 4. STANDARD 30-INCH SEWER MANHOLE FRAME AND COVER SHALL BE LOCATED OVER CROSSES AND SET IN FULL MORTAR BED. ADJUST TO GRADE WITH SEWER BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)
- 5. PIPING SHALL BE SCH 40 PVC WITH SOLVENT WELDED JOINTS. INTERNAL PIPE DIAMETER SHALL BE SAME SIZE AS OUTLET PIPE.
- 6. FINAL DESIGN OF GREASE TRAP TO BE BY PLUMBING ENGINEER.
- 7. THE INSTALLATION OF GREASE TRAP, THE PIPING TO AND 10 FEET BEYOND IS BY PLUMBER.

12/19 LD\_210



Proposed Chipotle

55 Crystal Ave

Revision

esigned by

Issued for

SJF

**TRC Review** 

Derry, NH 03038

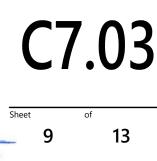
TRC RESPONSE TO COMMENTS

TRC RESPONSE TO COMMENTS

TRC RESPONSE TO COMMENTS

Not Approved for Construction

Site Details 3



Date

4/7/2023

Checked by

February 23, 2023

Date

5/2/2023 DHF

5/19/2023 DHF

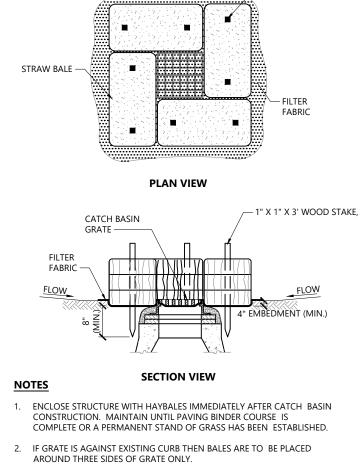
DHF

Appvd.

DHF

Drawing Number

52869.01



- STAKES (2 PER BALE)

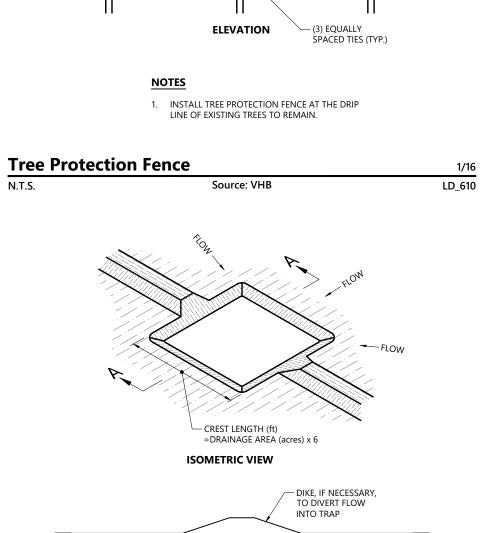
- 3. GRATE TO BE PLACED OVER FILTER FABRIC.
- 4. BALES SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND REPAIR OR REPLACEMENT SHALL BE PERFORMED

Source: VHB

Catch Basin Sediment Trap

N.T.S.

PROMPTLY AS NEEDED.



8'-0"

MAX. O.C.

- DRIP LINE

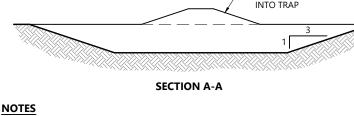
— 1"X1"X6'

POST (TYP.)

TRFF TRUNK

- ORANGE PLASTIC

WEB FENCE (TYP.)



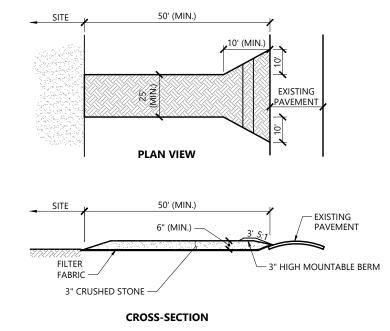
- 1. THE TRAP SHALL BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS POSSIBLE
- 2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP SHALL BE LESS THAN 5 ACRES.
- THE MINIMUM VOLUME OF THE TRAP SHALL BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
- 4. THE SIDE SLOPES OF THE TRAP SHALL BE 3:1 OR FLATTER, AND SHALL BE STABILIZED IMMEDIATELY AFTER THEIR CONSTRUCTION.
- 5. THE OUTLET OF THE TRAP SHALL BE A MINIMUM OF ONE FOOT BELOW THE CREST OF THE TRAP

Source: NH Stormwater Manual

- AND SHALL DISCHARGE TO A STABILIZED AREA.
- 6. THE TRAP SHALL BE CLEANED WHEN 50 PERCENT OF THE ORIGINAL VOLUME IS FILLED. 7. THE MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED.

**Temporary Sediment Trap** 

N.T.S.



## NOTES

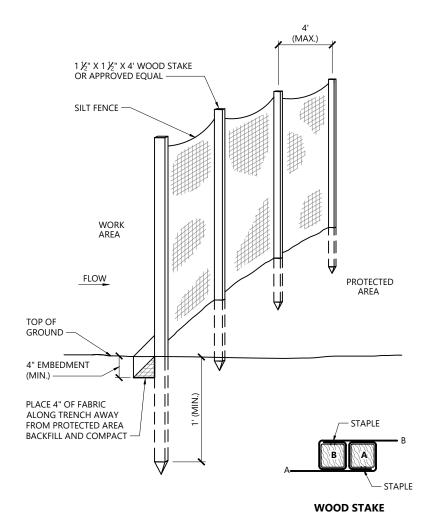
OCCURS.

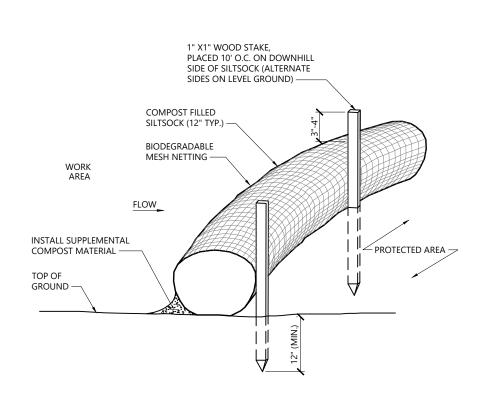
- 1. EXIT WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS
- 2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
- 3. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

# Stabilized Construction Exit

N.T.S. Source: VHB

5/17 LD\_682-NH





Source: VHB

JOINT DETAIL

1/16

LD\_650

10/20

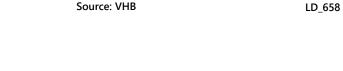
## <u>NOTES</u>

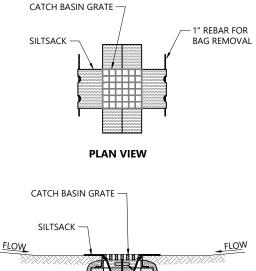
Silt Fence Barrier

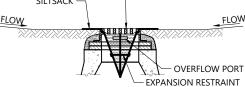
N.T.S.

- 1. SILTSOCK SHALL BE FILTREXX SILTSOXX, OR APPROVED EQUAL.
- SILTSOCKS SHALL OVERLAP A MINIMUM OF 12 INCHE
- 3. SILTSOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY
- AS NEEDED.
- 4. UPON SITE STABILIZATION, COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
- IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.

## Siltsock - Erosion Control Barrier N.T.S.







SECTION VIEW

## NOTES

1. INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.

3. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED

Siltsack Sediment Trap N.T.S. Source: VHB

2. GRATE TO BE PLACED OVER SILTSACK.

## EROSION CONTROL

DEPOSIT.

1. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.

2. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT (0.5" OF RAINFALL OR GREATER) AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.

3. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT

4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.

 AREAS REMAINING UNSTABILIZED FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE TEMPORARILY SEEDED AND MULCHED. STRAW MULCH SHALL BE APPLIED AT A MINIMUM RATE OF 1-1/2 TONS/ACRE. 7. PERMANENT SEEDING SHALL OCCUR BETWEEN APRIL 1 AND JUNE 1, AND/OR BETWEEN AUGUST 15 AND OCTOBER 15.

ALL SEEDING FROM SEPTEMBER 15 SHALL BE STRAW MULCHED. 8. DUST SHALL BE CONTROLLED THROUGH THE USE OF WATER.

9. SOILS TO BE STOCKPILED FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE TEMPORARILY SEEDED AND MULCHED. CONTRACTOR SHALL INSTALL SILT FENCING ALONG DOWNHILL SIDE OF STOCKPILES. 10. CONTRACTOR SHALL PROVIDE TEMPORARY SEDIMENTATION BASINS TO CONTROL SEDIMENTATION AND STORMWATER

RUNOFF DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL SUBMIT PROPOSED BASIN LOCATIONS, DESIGNS, ETC. TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION. TEMPORARY SEDIMENTATION BASINS SHALL MEET NHDES REQUIREMENTS.

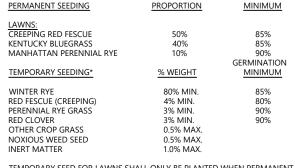
11. CONTRACTOR SHALL PROVIDE NECESSARY EROSION CONTROL MEASURES TO ENSURE THAT SURFACE WATER RUN-OFF FROM UNSTABILIZED AREAS DOES NOT CARRY SILT, SEDIMENT, AND OTHER DEBRIS OUTSIDE OF THE LIMITS OF WORK. 12. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

12.1. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED; 12.2. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED; 2.3. A MINIMUM OF 3-IN OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP. HAS BEEN INSTALLED: 12.4. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

13. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION.

14. ALL DITCHES, SWALES, AND DRAINAGE BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM. 15. ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. 16. ALL CUT AND FILL SLOPES SHALL BE LOAMED AND SEEDED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

17. ALL PERMANENT AND TEMPORARY SEEDING SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED): GERMINATION PURITY MINIMUM



TEMPORARY SEED FOR LAWNS SHALL ONLY BE PLANTED WHEN PERMANENT GRASSES CANNOT BE PLANTED DUE TO THE GROWING SEASON. 18. NO-MOW PLANTING MIX SHALL BE APPLIED TO TEMPORARY DISTURBANCES AREAS AROUND HUMPHREY BROOK. THE

95%

95%

SEED MIX SHALL BE THE "NEW ENGLAND CONSERVATION WILDLIFE MIX' AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC.

19. THE PROJECT SHALL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

DEMOLITION

20. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION-CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE, THE PROPERTY OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE CITY.

1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON THE DRAWINGS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS.

2. EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES. 3. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL

REGULATIONS, ORDINANCES AND STATUTES. 4. THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING ITS

BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE WORK. 5. UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT

OR DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES OR POLLUTANTS AT THE PROJECT SITE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS, DAMAGE, EXPENSE, DELAY, INJURY OR DEATH ARISING FROM THE PRESENCE OF HAZARDOUS MATERIAL AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOREOVER, THE ENGINEER SHALL HAVE NO ADMINISTRATIVE DBLIGATIONS OF ANY TYPE WITH REGARD TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF ASBESTOS OR OTHER HAZARDOUS.



2 Bedford Farms Drive Suite 200 Bedford, NH 03110 603.391.3900

# **Proposed Chipotle**

55 Crystal Ave Derry, NH 03038

No.	Revision	Date	Appvd.
1	TRC RESPONSE TO COMMENTS	4/7/2023	DHF
2	TRC RESPONSE TO COMMENTS	5/2/2023	DHF
3	TRC RESPONSE TO COMMENTS	5/19/2023	DHF

## SJF Issued for

**TRC Review** 

DAVID

H. FENSTERMACHER

No. 13382

Date February 23, 2023

DHF

Not Approved for Construction

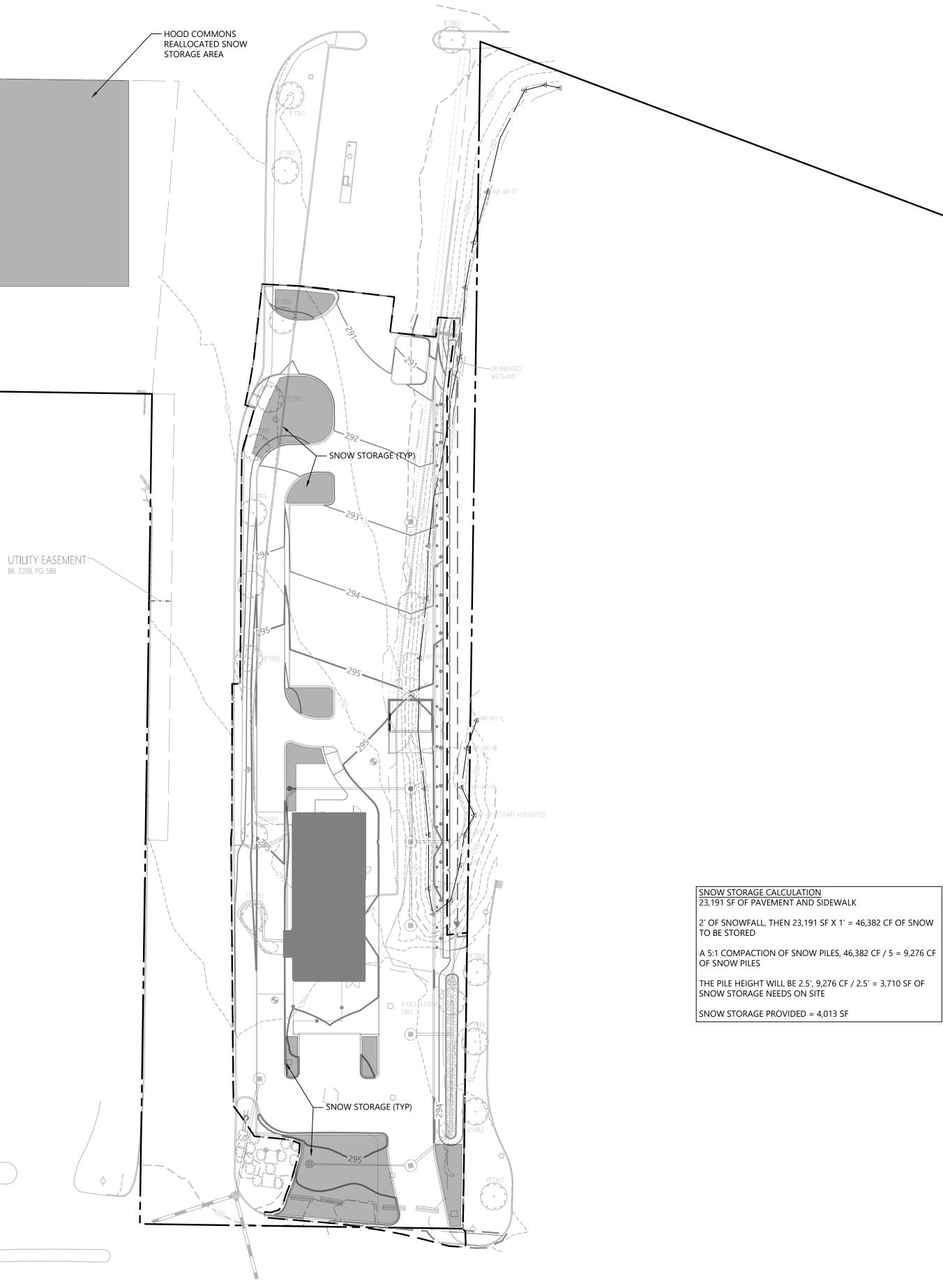


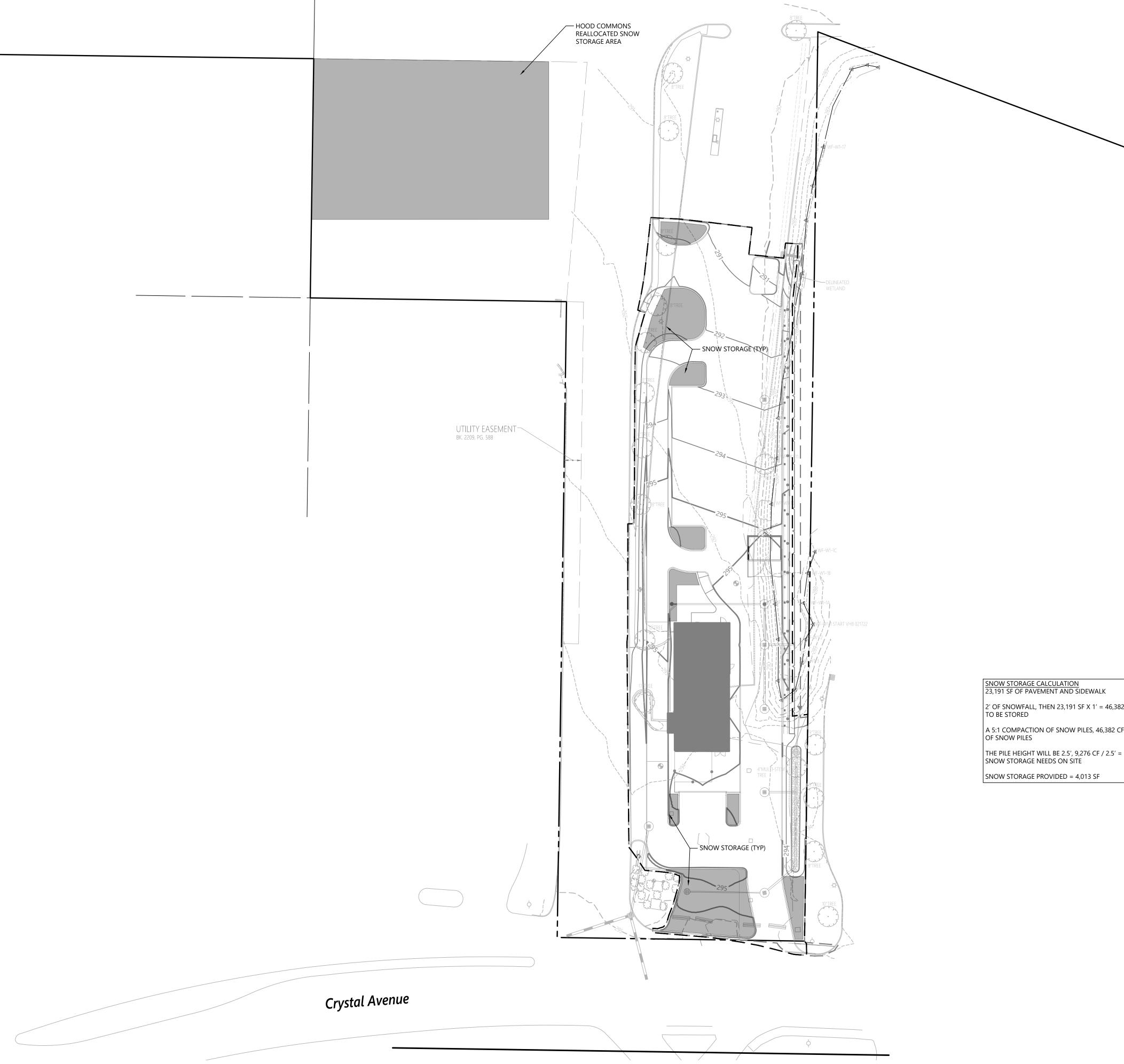
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Project Number

52869.01

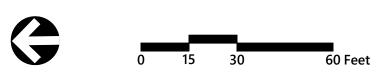
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2 Bedford Farms Drive Suite 200 Bedford, NH 03110 603.391.3900



# **Proposed Chipotle** 55 Crystal Ave Derry, NH 03038

No. Revision

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ssued for	Date
TRC Review	February 23, 2023
SJF	Checked by DHF

Not Approved for Construction



Project Number **52869.01** 

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# PLANT SCHEDULE

DECIDUOUS TREES ARO	<u>QTY</u> 2	BOTANICAL NAME Acer rubrum `October Glory`	COMMON NAME October Glory Maple	<u>SIZE</u> 2 1/2 - 3" CAL.	<u>REMARKS</u> 8' BRANCHING HEIGHT MINIMUM
GT	6	Gleditsia triacanthos `Skyline`	Skyline Honeylocust	2 1/2 - 3" CAL.	
ORNAMENTAL TREES	QTY 3	BOTANICAL NAME Carpinus caroliniana	<u>COMMON NAME</u> American Hornbeam	<u>SIZE</u> 2 - 2 1/2" CAL.	
<u>SHRUBS</u> CAH JBH VC YV	<u>QTY</u> 29 169 23 20	<u>BOTANICAL NAME</u> Clethra alnifolia `Hummingbird` Juniperus horizontalis `Bar Harbor` Vaccinium corymbosum Yucca filamentosa 'Variegata'	<u>COMMON NAME</u> `Hummingbird` Summersweet Bar Harbor Creeping Juniper Highbush Blueberry Variegated Adams's Needle	<u>SIZE</u> 18 - 24" HT. 18 - 24" SPD 2 - 3` HT. 18 - 24" SPD	
<u>GRASSES</u> DC	<u>QTY</u> 92	BOTANICAL NAME Deschampsia cespitosa	COMMON NAME Tufted Hair Grass	<u>SIZE</u> #2 POT	
<u>PERENNIALS</u> AN RH	<u>QTY</u> 92 150	BOTANICAL NAME Aster novae-angliae Rudbeckia hirta	COMMON NAME New England Aster Black-eyed Susan	<u>SIZE</u> #1 POT #2 POT	

## **ZONING REQUIREMENT NOTES:**

15' WIDE STREET TREE STRIP ALONG FRONTAGE:

- 1 NATIVE TREE FOR EVERY 50' OF FRONTAGE (100' / 50 = 2 TREES)
- MINIMUM 25' BETWEEN TREES
- MINIMUM 2.5" CALIPER MINIMUM 8' BRANCHING HEIGHT

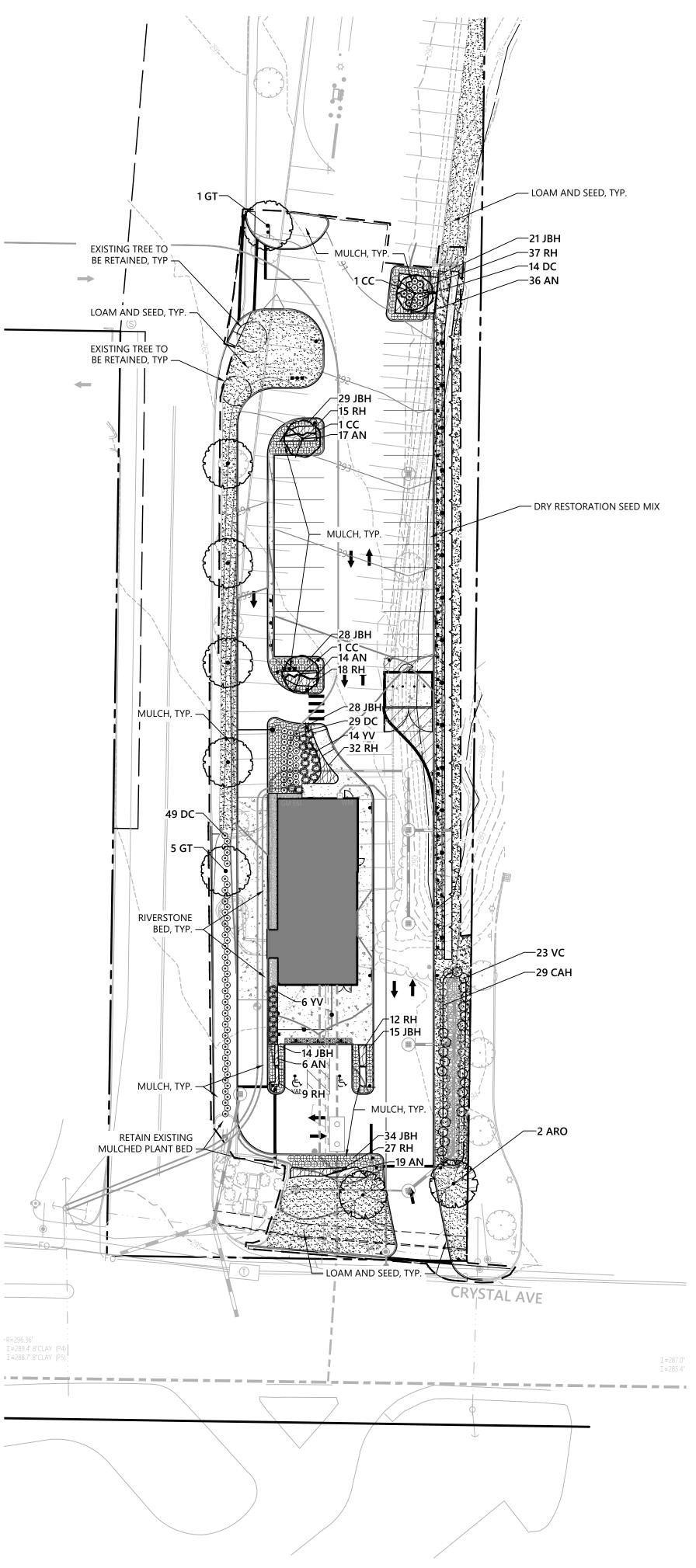
DECIDUOUS / ORNAMENTAL TREES:

- 1 DECIDUOUS / ORNAMENTAL TREE FOR EVERY 30' OF BUILDING EDGE (218' / 30 = 7.26 = 8 TREES) MINIMUM 2.5" CALIPER
- SHRUBS: • 1 DECIDUOUS / EVERGREEN SHRUB PER 2 PARKING SPACES (49 SPACES / 2 = 24.5 = 25 SHRUBS)

MINIMUM 18" HEIGHT AND WIDTH

LOCATION:

25% OF TREES AND SHRUBS TO BE LOCATED WITHIN CURBED AND RAISED ISLANDS WITHIN PAVED AREAS



## **Planting Notes**

- PRIOR TO INSTALLATION.

- INDICATED ON THE PLANS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
- REPRESENTATIVE.
- PRIOR TO BIDDING.
- ASSOCIATION OF NURSERYMEN AND CONTRACT DOCUMENTS.
- DATE OF FINAL ACCEPTANCE.
- WITH EROSION CONTROL FABRIC.
- REPRESENTATIVE.

# Plant Maintenance Notes

- PROVIDED BY THE CONTRACTOR.
- NATURAL RAINFALL IS BELOW ONE INCH PER WEEK.
- SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.

## **Tree Protection**

- PRIOR TO START OF CONSTRUCTION.
- PROTECTION AREA.

## Seed Mixtures:

- WITH MANUFACTURERS RECOMMENDATIONS.

1. ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT

2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL BELOW GRADE AND ABOVE GROUND UTILITIES AND NOTIFY OWNERS REPRESENTATIVE OF CONFLICTS.

3. NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY CONFLICT.

4. A 3-INCH DEEP MULCH PER SPECIFICATION SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTING BEDS, UNLESS OTHERWISE

ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR SPECIFICATION, OR APPROVED BY THE OWNER'S

6. FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS GRAPHICALLY SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLANT LIST AND PLANT LABELS

7. ANY PROPOSED PLANT SUBSTITUTIONS MUST BE REVIEWED BY LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.

8. ALL PLANT MATERIALS INSTALLED SHALL MEET THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN

9. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING

10. AREAS DESIGNATED "LOAM & SEED" SHALL RECEIVE MINIMUM 6" OF LOAM AND SPECIFIED SEED MIX. LAWNS OVER 2:1 SLOPE SHALL BE PROTECTED

11. ALL DISTURBED AREAS NOT OTHERWISE NOTED ON CONTRACT DOCUMENTS SHALL BE LOAM AND SEEDED OR MULCHED AS DIRECTED BY OWNER'S

12. THIS PLAN IS INTENDED FOR PLANTING PURPOSES. REFER TO SITE / CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.

1. CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE LAWNS AND PLANTINGS. NO IRRIGATION IS PROPOSED FOR THIS SITE. THE CONTRACTOR SHALL SUPPLY SUPPLEMENTAL WATERING FOR NEW LAWNS AND PLANTINGS DURING THE ONE YEAR PLANT GUARANTEE PERIOD.

2. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK. WATER SHALL BE

3. WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN

4. WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY

5. CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS AT THE END OF THE ONE YEAR GUARANTEE PERIOD. CONTRACTOR SHALL TURN OVER MAINTENANCE TO THE FACILITY MAINTENANCE STAFF AT THAT TIME.

1. EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY CONSTRUCTION FENCE. ERECT FENCE AT EDGE OF THE TREE DRIPLINE

CONTRACTOR SHALL NOT OPERATE VEHICLES WITHIN THE TREE PROTECTION AREA. CONTRACTOR SHALL NOT STORE VEHICLES OR MATERIALS, OR DISPOSE OF ANY WASTE MATERIALS, WITHIN THE TREE

3. DAMAGE TO EXISTING TREES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY A CERTIFIED ARBORIST AT THE CONTRACTOR'S EXPENSE.

1. AREAS INDICATED AS "DRY RESTORATION SEED MIX" ARE TO BE SEEDED WITH NEW ENGLAND CONSERVATION EROSION CONTROL/RESTORATION MIX FOR DRY SITES, AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC. AMHERST, MA (413) 548-8000, www.NEWP.com,OR AN APPROVED EQUAL. APPLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

2. AREAS INDICATED AS "BIORETENTION SEED MIX" ARE TO BE SEEDED WITH NEW ENGLAND EROSION CONTROL / RESTORATION MIX FOR DETENTION PONDS AND MOIST AREAS, AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC. AMHERST, MA (413) 548-8000, www.NEWP.com,OR AN APPROVED EQUAL. APPLY IN ACCORDANCE



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# **Proposed Chipotle** 55 Crystal Ave Derry, NH 03038

	<b>J</b> <sup>1</sup>		
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### esigned by JCL Issued for

**TRC Review** 

February 23, 2023

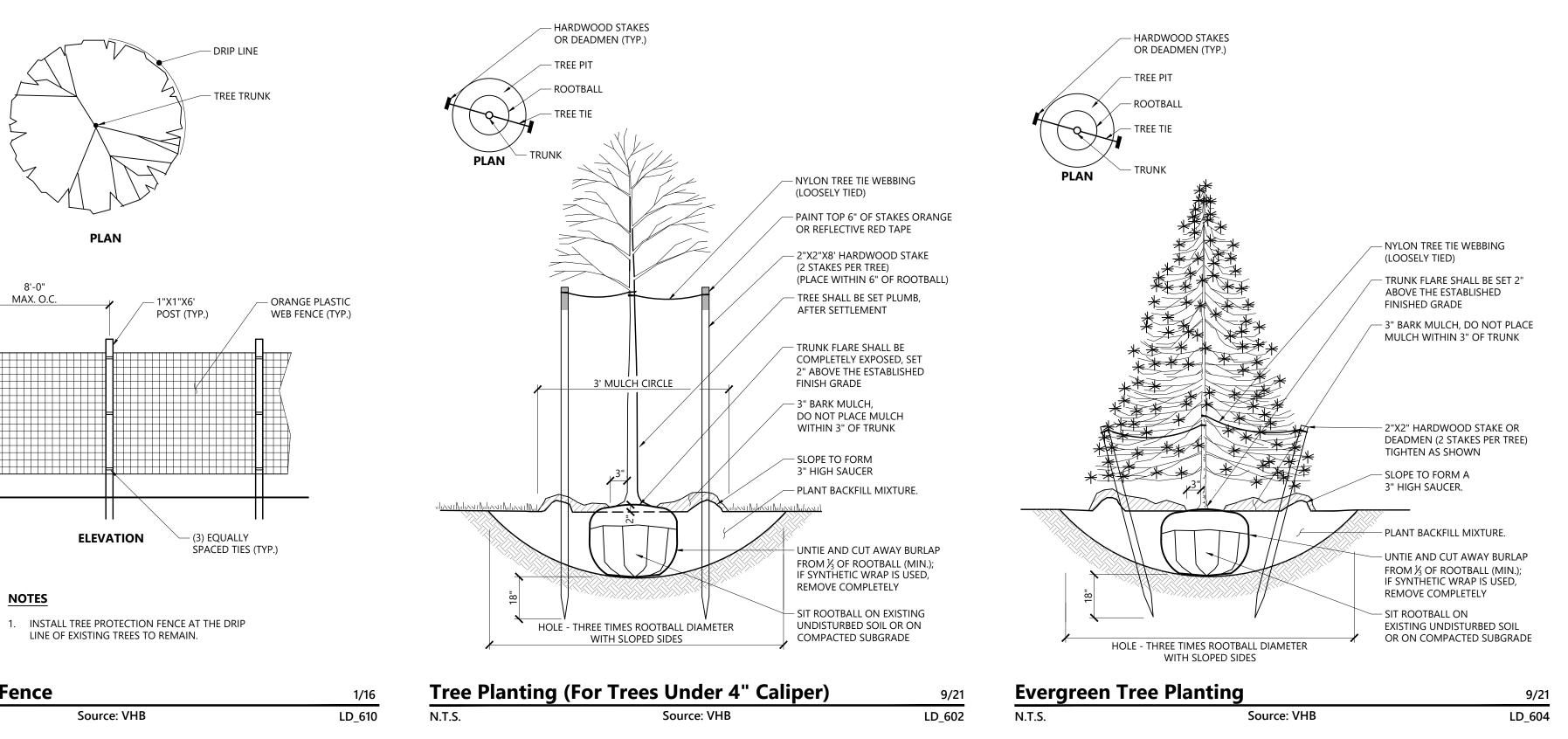
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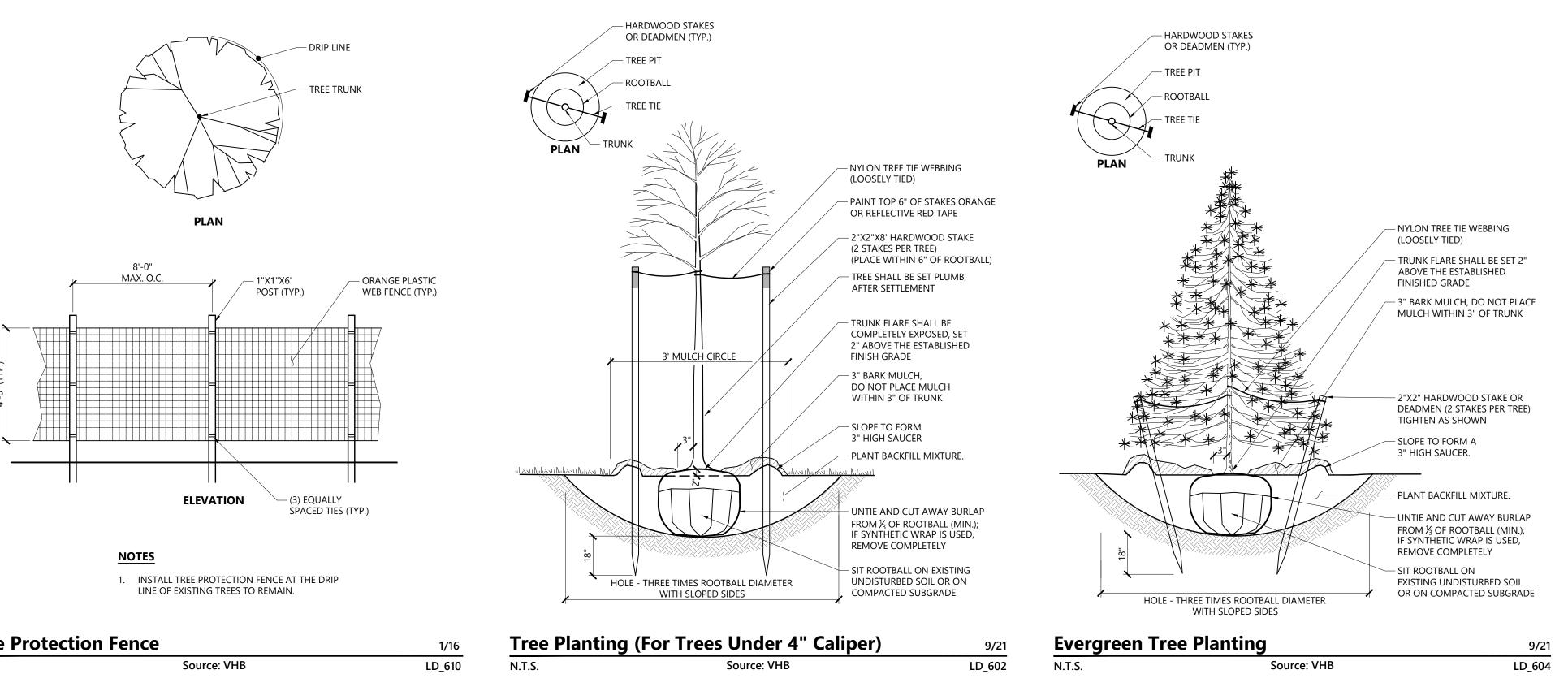
Not Approved for Construction

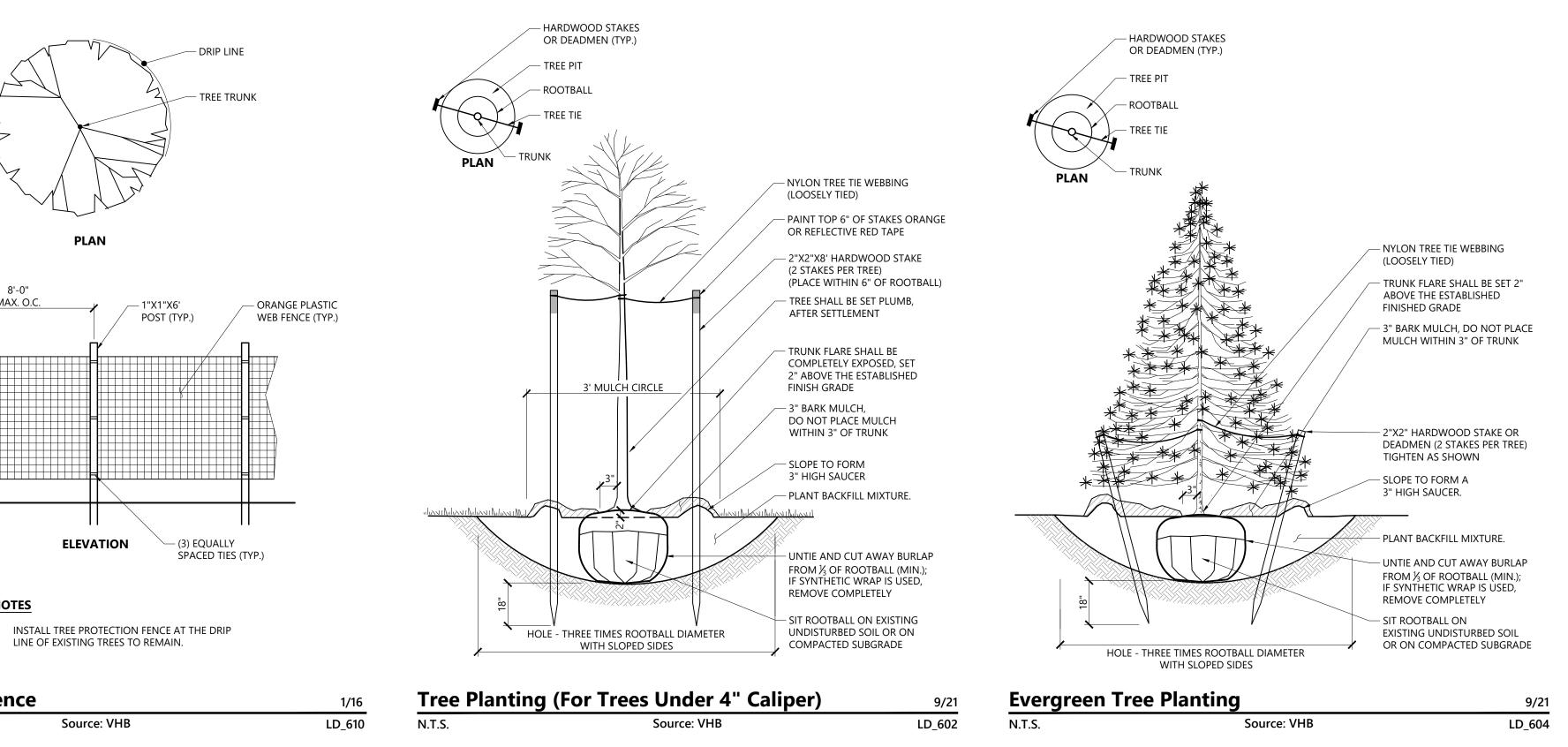




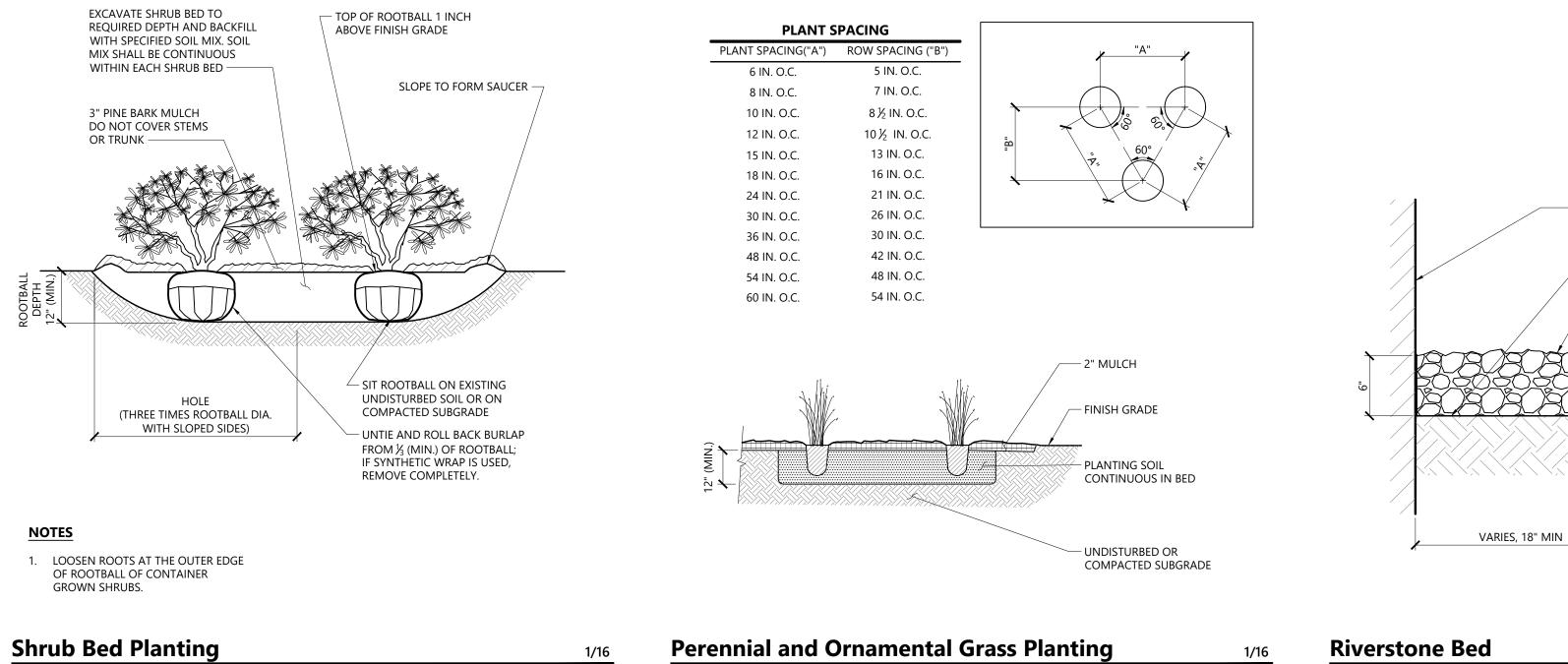
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Source: VHB

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Source: VHB



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# Proposed Chipotle

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Checked by

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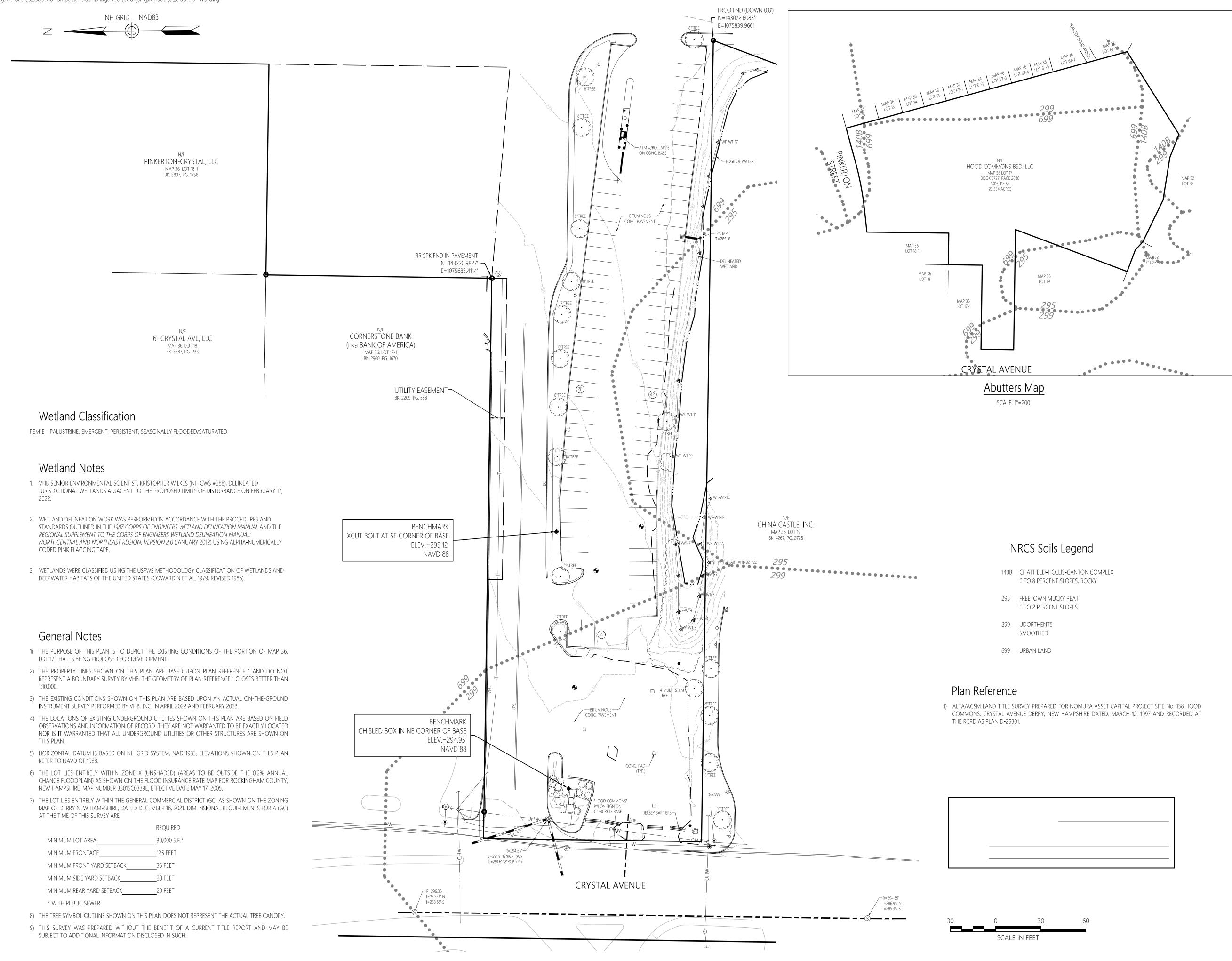




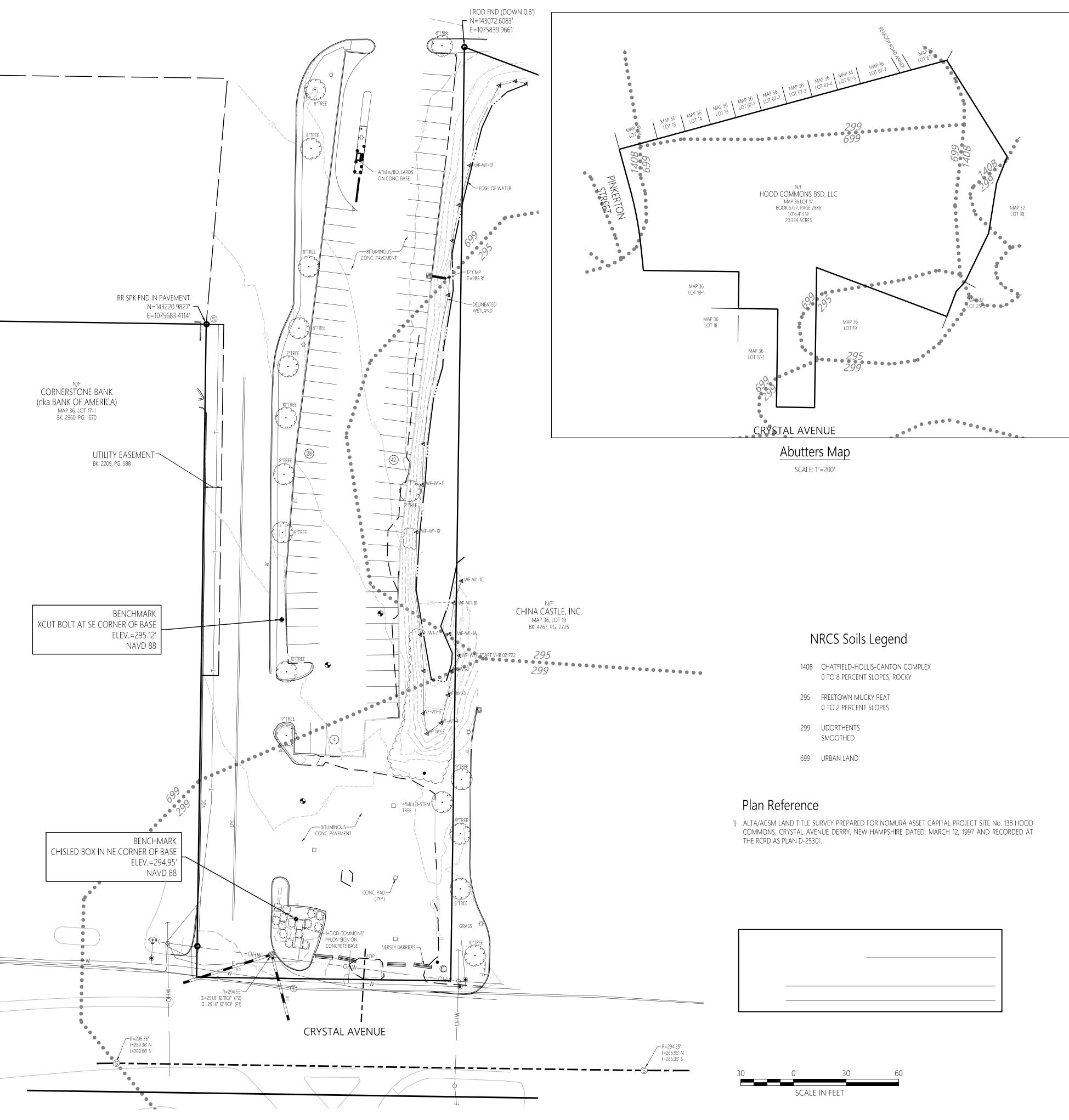
– BUILDING - FILTER FABRIC - 2-4" RIVERBED STONE - STEEL LANDSCAPE EDGING — LANDSCAPE AREA - COMPACTED SUBGRADE

Source: VHB

\\vhb.com\qbl\proj\Bedford\52869.00 Chipotle Due Dilligence\cad\sr\planset\52869.00-WS.dwg



	REQUIRED
MINIMUM LOT AREA	30,000 S.F.
MINIMUM FRONTAGE	125 FEET
MINIMUM FRONT YARD SETBACK	35 FEET
MINIMUM SIDE YARD SETBACK	20 FEET
MINIMUM REAR YARD SETBACK	20 FEET
* WITH PUBLIC SEWER	



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<ul> <li>□</li> <li>□</li></ul>	TELEPHONE MANHOLE MANHOLE HAND HOLE WATER GATE FIRE HYDRANT GAS GATE BOLLARD BOLLARD W/LIGHT STREET SIGN LIGHT POLE UTILITY POLE GUY WIRE MONITORING WELL FLOOD LIGHT MARSH F.F.E.=45.27' FINISHED FLOOR ELEVATION COULD NOT OPEN NO PIPES VISIBLE DOUBLE YELLOW LINE DASHED WHITE LINE SINGLE YELLOW LINE LANDSCAPED AREA EDGE OF PAVEMENT CONCRETE CURB VERTICAL GRANITE CURB SLOPED GRANITE EDGE BITUMINOUS BERM BITUMINOUS CURB GUARDRAIL CHAIN LINK FENCE DRAINAGE LINE SEWER LINE SEWER LINE OVERHEAD WIRE UNDERGROUND ELECTRIC TELEPHONE LINE GAS LINE WATER LINE STONE WALL

# **Proposed Chipotle**

Issued for

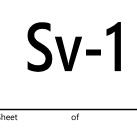
55 Crystal Avenue Derry, New Hampshire 03038

No.	Revision	Date	Appvd.
1	TRC RESPONSE TO COMMENTS	4/7/2023	DHF
Desigr	ned by	Checked by	

February 23, 2023

# **Existing Conditions** Plan of Land

Drawing Number



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$\begin{bmatrix} 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.2 & 0.3 & 0.2 & 0.3 & 0.5 & 0.7 & 0.4 & 0.8 & 1.3 & 1.9 & 2.8 & 4.2 & 5.8 & 6.9 & 6.8 & 5.5 & 4.0 & 2.8 & 2.2 & 1.9 & 2/1 & 2.6 & 3.5 & 4.8 & 5.8 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.4 & 6.$	0 $\overset{+}{4}.9$ $\overset{+}{3}.5$ $\overset{+}{2}.4$ $\overset{+}{1}.6$ $\overset{+}{1}.0$ $\overset{+}{0}.6$ $\overset{+}{0}.4$ $\overset{+}{0}.2$ $\overset{+}{0}.1$ $\overset{+}{0}.1$ $\overset{+}{0}.0$ $\overset{+}{0}.0$ $\overset{+}{0}.0$
$0.0  0.0  0.0  0.0  0.1  0.1  0.3  0.5  0.9  1.4  2.3  3.5  -5.0  6.8  MH: 27_6  0.0  MH: 7  17  0.5  -6.8  MH: 7  17  0.5  -6.8  MH: 7  17  0.5  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6.8  -6$	
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{bmatrix} 0.0 & 0.0 & 0.0 & 0.0 \\ 0.0 & 0.0 & 0.1 \\ 0.1 & 0.3 & 0.5 & 0.8 \\ 1.2 & 1.7 & 2.5 & 3.6 & 4.7 \\ 1.2 & 1.7 & 2.5 & 3.6 & 4.7 \\ 1.4 & 6.5 \\ MH: 27.00 \\ 1.4 & 1.7 & 1.7 & 1.7 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.5 \\ 1.4 & 6.$	<b>7</b> $\mathbf{P}$ <b>1</b> $\mathbf{P}$
5.0  2.0  3.4  4.7  6.0  5.7  4.3  3.1  2.3  1.9  1.8  1.9  2.2  2.8  3.8  4.6  5.0  1.9  1.8  1.9  2.2  2.8  3.8  4.6  5.0  5.7  4.3  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7  5.7	$7  \overset{+}{3.8}  \overset{+}{2.8}  \overset{+}{2.0}  \overset{+}{1.5}  \overset{+}{1.0}  \overset{+}{0.7}  \overset{+}{0.4}  \overset{+}{0.2}  \overset{+}{0.1}  \overset{+}{0.1}  \overset{+}{0.0}  \overset{+}{0.0} \overset{+}{0.0} \overset{+}{0.0} \overset{+}{0$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$MH \cdot 7 \cdot 17$	
	$3  \stackrel{+}{2}.8  \stackrel{+}{2}.2  \stackrel{+}{1}.7  \stackrel{+}{1}.4  \stackrel{+}{1}.0  \stackrel{+}{0}.7  \stackrel{+}{0}.4  \stackrel{+}{0}.3  \stackrel{+}{0}.1  \stackrel{+}{0}.1  \stackrel{+}{0}.0  $
$\begin{bmatrix} 1 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.5 \\ 0.7 \\ 0.8 \\ 0.5 \\ 0.7 \\ 0.8 \\ 1.0 \\ 1.2 \\ 1.3 \\ 1.4 \\ 1.5 \\ 1.4 \\ 1.5 \\ 1.4 \\ 1.5 \\ 1.4 \\ 0.6 \\ 0.9 \\ 1.4 \\ 2.1 \\ 3.0 \\ 3.9 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 \\ 5.0 $	1.9 1.6 1.3 1.1 0.9 $\overline{0.6}$ $\stackrel{+}{0.4}$ $\stackrel{+}{0.3}$ $\stackrel{+}{0.2}$ $\stackrel{+}{0.1}$ $\stackrel{+}{0.0}$ $\stackrel{+}{0.0}$ $\stackrel{+}{0.0}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.3 1.2 1.0 0.9 0.7 $0.5$ $0.4$ $0.2$ $0.2$ $0.1$ $0.1$ $0.0$ $0.0$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.8 $0.7$ $0.6$ $0.5$ $0.4$ $0.3$ $0.2$ $0.1$ $0.1$ $0.1$ $0.0$ $0.0$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	$ \overset{+}{0.4} \overset{+}{0.4} \overset{+}{0.4} \overset{+}{0.4} \overset{+}{0.3} \overset{+}{0.2} \overset{+}{0.2} \overset{+}{0.1} \overset{+}{0.1} \overset{+}{0.1} \overset{+}{0.1} \overset{+}{0.0} \overset{+}{0.0} \overset{+}{0.0} \overset{+}{0.0} $
$ \begin{bmatrix} 0.0 & 0.0 & 0.0 \\ 0.0 & 0.0 & 0.1 \\ 0.0 & 0.1 & 0.1 \\ 0.1 & 0.1 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0.2 & 0.2 \\ 0$	0.1 $0.2$ $0.1$ $0.1$ $0.1$ $0.1$ $0.1$ $0.1$ $0.1$ $0.1$ $0.1$ $0.1$ $0.1$ $0.1$ $0.0$ $0.0$ $0.0$ $0.0$
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JOB NAME: CHIPOTLE - 55 CRYSTAL AVE - DERRY, NH APEX LIGHTING SOLUTIONS WORKPLANE/CALC PLANE: AT FINISH GRADE MOUNTING HEIGHT: SEE LUMINAIRE SCHEDULE APPS: LED/PD SALES: SP SPECIFIER: VHB-NH

Patio

Luminaire Schedule													
Symbol	Qty	Label	Arrangement	Lum. Lumens	Lum. Watts	LLF	Description					[MANUFAC]	Filename
	1	A-2	Back-Back	20843	160.3727	0.850	0.850 EH19L-96L-560-NW-G2-AR1-3-VOLT-DD-SP1-				SIGNIFY GARDCO	EH19L-96L-560-NW-G3-3.ies	
							FINISH, 25ft Pole, 2ft Concrete Base						
	30	В	Single	414	5	0.850	0.850 HIHW-10-24V-95C-30K-ST (Modeled as ten				preciseLED	HIHE-24V-95C-30K-WET.IES	
							one-foot sections), Mounted 7ft2in AFG						
- <del>[·</del> ]	1	С	Single	17174	171	0.850 EH19L-96L-560-NW-G2-AR1-2-VOLT-DD-SP1-				SIGNIFY GARDCO	EH19L-96L-560-NW-G3-2-HIS.ies		
							HIS-FINISH, 25ft Pole, 2ft Concrete Base						
$\cdot$	2	E3-4	GROUP	N.A.	N.A.	0.850	0.850 EH19L-96L-560-NW-G2-AR1-3/4-VOLT-DD-SP1-						N.A.
							FINISH, 25ft Pole, 2ft Concrete Base						
Calculation Summary													
	imary			I		1			1	1			
Label	Label CalcType			Units	Avg	Max Min Avg/Min Max/Min Descr			Descript	tion			
Site			Illuminance		Fc         0.86         9.5         0.0         N.A.         N.A.		10ft Gric	1	/				
Under Canopy			Illuminance         Fc         17.80         20.2         15.1         1.18		1.18	1.34	3ft Grid						
Dumpster Area			Illuminance		Fc	3.90	4.6	3.0	1.30	1.53	10ft Grid		
Parking & Drives	S		Illuminance		Fc	2.74	8.4	0.2	13.70	42.00 10ft Grid		ł	

5.4

GENERAL DISCLAIMER: Calculations have been performed according to IES standards and good practice Some differences between measured values and calculated results may occur due to tolerances in calculation methods, testing procedures, component performance, measurement techniques and field conditions such as voltage and temperature variations. Input data used to generate the attached calculations such as room dimensions, reflectances, furniture and architectural elements significantly affect the lighting calculations. If the real environment conditions do not match the input data, differences will occur between measured values and calculated values. **APEX** \* LLF Determined Using Current Published Lamp Data NOTE TO REVIEWER: LIGHTING SOLUTIONS Total Light Loss Factor (LLF) applied at time of design is determined by applying the Lamp Lumen Depreciation (LLD) from current lamp manufacturer's catalog, a Luminaire Dirt Depreciation Factor (LDD) based on IES recommended values and a Ballast Factor (BF) from current ballast specification sheets. Application of an incorrect Light Loss Factor (LLF) will result in forecasts of performance that will not accurately depict actual results. 20-30 BEAVER ROAD, WETHERSFIELD, CT 06109 TELEPHONE 860.632.8766 / WWW.APEXLTG.COM For proper comparison of photometric layouts, it is essential that you insist all designers use correct Light Loss Factors.

Illuminance

Fc

6.28

7.2



1.16

1.33

10ft Grid

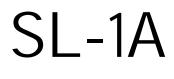
PROJECT TITLE:

CHIPOTLE 55 CRYSTAL AVE DERRY, NH

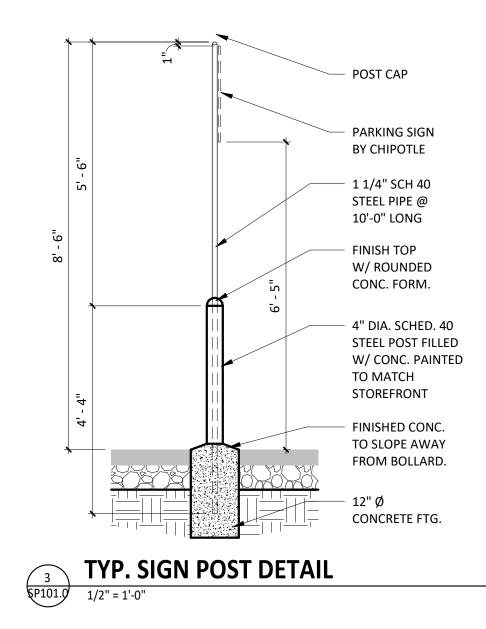
DRAWING TITLE: SITE LIGHTING PHOTOMETRIC CALCULATION SCALE : 1"=20'-0"

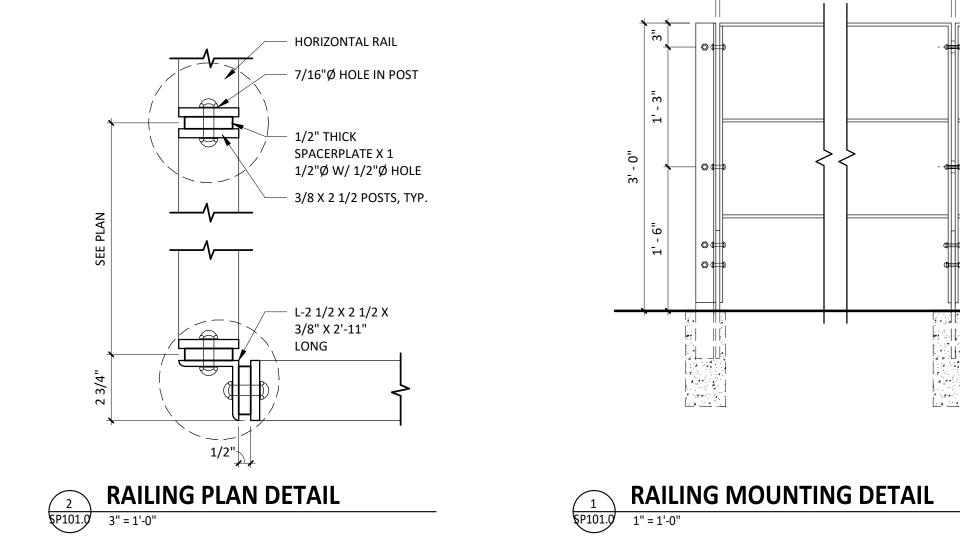
date: 3/10/23

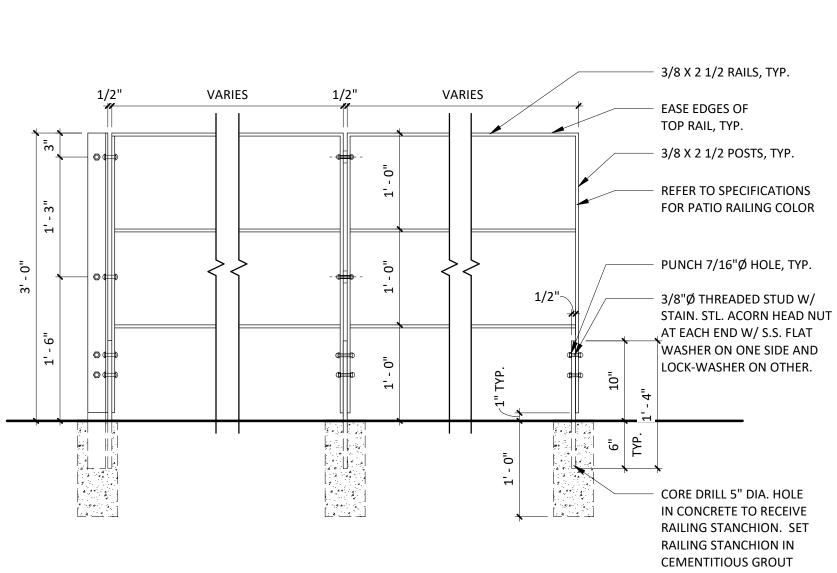
DRAWN BY: LED/PD SHEET:

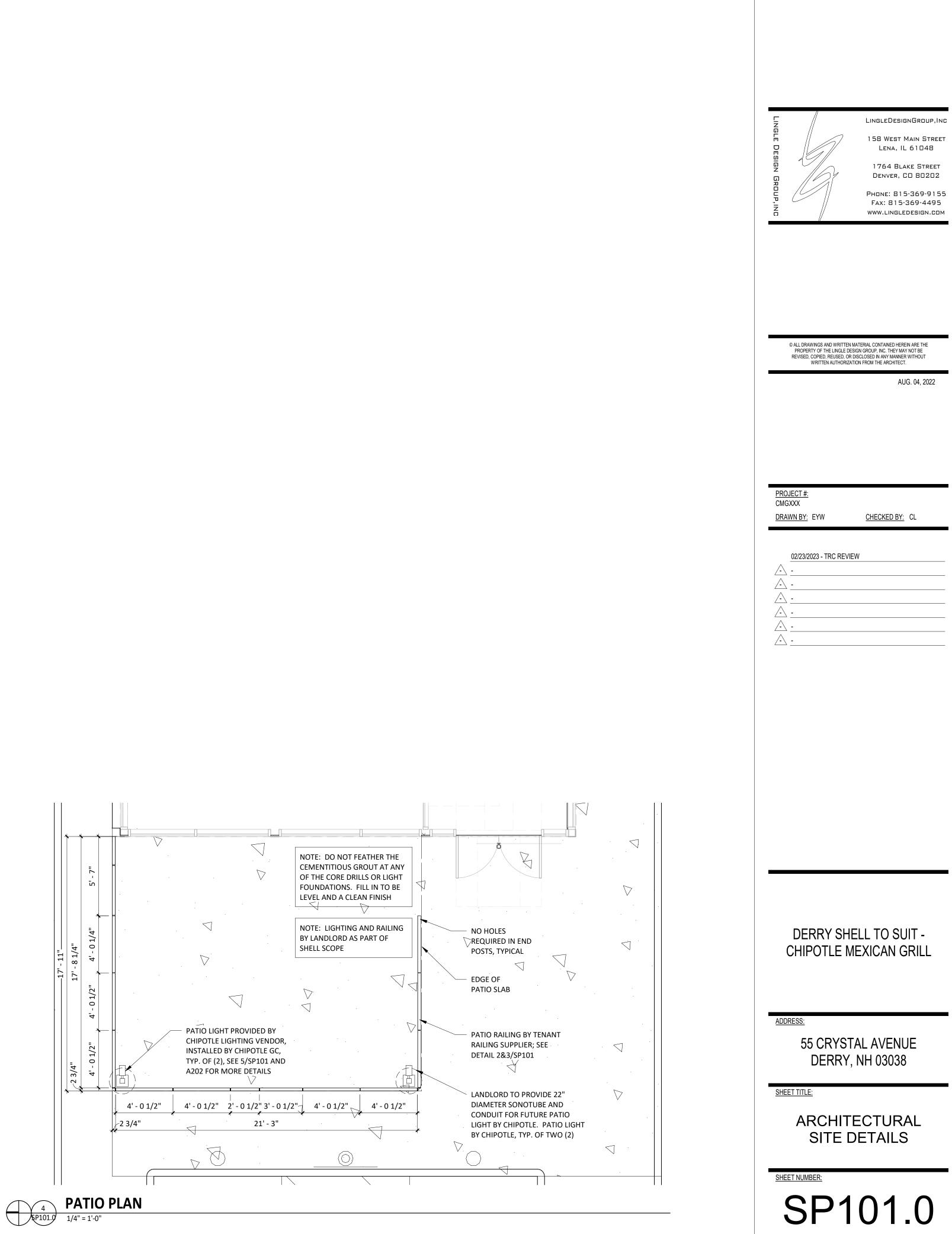


FILE NAME: 2023-03-10 SL-1A CHIPOTLE - 55 CRYSTAL AVE - DERRY, NH-LED.dwg









3/8 X 2 1/2 POSTS, TYP. REFER TO SPECIFICATIONS FOR PATIO RAILING COLOR

