GENERAL INFORMATION

OWNER

MAP 06P LOT 5 INTERCHANGE DEVELOPMENT LLC 152 MORRILL ROAD CANTERBURY, NH 03224

APPLICANT

INTERCHANGE DEVELOPMENT LLC 152 MORRILL ROAD CANTERBURY, NH 03224

PREPARED FOR

INTERCHANGE DEVELOPMENT LLC 152 MORRILL ROAD CANTERBURY, NH 03224

RESOURCE LIST

PLANNING & COMMUNITY DEVELOPMENT DEPARTMENT 41 GREEN STREET, 3RD FLOOR CONCORD, NH 03301 PHONE: (603) 225-8515 CONTACT: MATT WALSH

CODE ADMINISTRATION 37 GREEN STREET, CONCORD, NH 03301 PHONE: (603) 225-8580 CONTACT: TRACEY HUTTON

CITY MANAGER 41 GREEN STREET, CONCORD, NH 03301 PHONE: (603) 225-8570 CONTACT: THOMAS J. ASPELL JR.

GENERAL SERVICES (PUBLIC WORKS) 311 NORTH STREET, CONCORD, NH 03301 PHONE: (603) 228-2737 CONTACT: CHIP CHESLEY (DIRECTOR)

POLICE DEPARTMENT 35 GREEN STREET, CONCORD, NH 03301 PHONE: (603) 225-8600 CONTACT: BRADLEY C. OSGOOD (CHIEF OF POLICE)

FIRE DEPARTMENT 24 HORSESHOE POND LANE, CONCORD, NH 03301 PHONE: (603) 225-8650 CONTACT: JOHN CHISHOLM (FIRE CHIEF)

ABUTTERS

MAP 06P, LOT 1 STATE/NH, DEPTARTMENT OF TRANSPORTATION 107 N MAIN ST CONCORD NH 03301-4951

MAP 06P, LOT 3 PELILLO PETER & WADDELL ANDREA 18 SHOESTRING RD CANTERBURY NH 03224-2026

MAP 06P, LOT4 BECK FRANK E III & LISA MARIE 10 SHOESTRING RD CANTERBURY NH 03224-2026

MAP 06P, LOT2 COCHRANE SANDRA I 24 SHOESTRING RD CANTERBURY NH 03224-2026

MAP 06P, LOT 6 INTERCHANGE DEVELOPMENT LLC 152 MORRILL ROAD CANTERBURY, NH 03224

MAP 06P, LOT 7 WHEELABRATOR CONCORD CO LP 100 ARBORETUM DR STE 310 NEWINGTON NH 03801-7833

MAP 06P. LOT 8 CONCORD REGIONAL SOLID WASTE RESOURCE RECOVERY 347B VILLAGE ST PENACOOK NH 03303-4516

MAP 06P, LOT 11 ROYAL TIMBER REALTY LLC 14 WHITNEY RD CONCORD NH 03301-1831

MAP 06P, LOT 12 MORRILL MILL POND LLC 152 MORRILL RD CANTERBURY NH 03224-2305

MAP 06P, LOT 13 MORRILL MILL POND LLC 152 MORRILL RD CANTERBURY NH 03224-2305

MAP 06P, LOT 12-1 6 WHITNEY ROAD LLC 6 WHITNEY RD CONCORD NH 03301-1831

MAP 267 LOT 29 (CANTERBURY) JODY MCWILLIAMS 6 OLD BOYCE ROAD CANTERBURY NH 03224

MAP 267 LOT 28 (CANTERBURY) ROBERT & MARY ANN CO TRUSTEES WOLFE FAMILY REV TRUST 98 SOUTH STREET CONCORD NH 03301

CONDOMINIUM LAND UNIT 3 DSM REALTY C/O MS. CHERYL STREET 881 EAST STREET TEWKSBURY, MA 01876

UTILITY CONTACT INFORMATION WATER CITY OF CONCORD -GENERAL SERVICES DEPT

CHIP CHESLEY 311 NORTH STATE STREET CONCORD NH 03301 6032-228-2737

SEWER

CITY OF CONCORD -GENERAL SERVICES DEPT CHIP CHESLEY 311 NORTH STATE STREET CONCORD NH 03301 6032-228-2737

ELECRIC UNITIL SERVICE CORP. TYLER GLUECK W: 603-379-3827 C: 484-866-0027 glueckt@unitil.com

COMCAST Steven Marshall Project Coordinator WNEN – NH steven_marshall@comcast.com 603-678-8274 - Office

TELEPHONE CONSOLIDATED COMMUNICATIONS MIKE MULLEN 64 Regional Dr Concord, NH 03301 mike.mullen@consolidated.com 603.226.1505 office 603.801.5064 cell 603.226.1413 fax

LEGEND

	PROP	OSED	
SBTBS	STONE BOUND	M	GAS GATE
• IRTBS	IRON PIN	●- Ⅲ	LIGHT POLE
● DHS	DRILL HOLE	€	BUILDING MOUNTED LIGHT
	GUARD RAIL	XX S	HYDRANT
SGC	SLOPED GRANITE CURB	Ś	SEWER MANHOLE
VGC	VERTICAL GRANITE CURB	Ø	DRAIN MANHOLE
	INTEGRAL CONCRETE CUP	хв 🌐	CATCH BASIN
<u></u>	EDGE OF PAVEMENT	E	TRANSFORMER PAD
and the second s	EDGE OF GRAVEL	H	WATER GATE
 D	WOOD FENCE		UTILITY POLE
××	SILT FENCE	×201.5	SPOT GRADE
	SIGN	200	INDEX CONTOUR
	TRAFFIC FLOW	202	INTERMEDIATE CONTOUR
\sim	TREELINE		SEWER LINE
	2. F. Vian law low 25. View		WATER LINE
		energen andersen verstellen settersenergen andersenergen anders	DRAIN LINE
		G	GAS LINE
			UNDERGROUND UTILITIES

NOTE: SEE EXISTING CONDITIONS PLAT FOR EXISTING LEGEND

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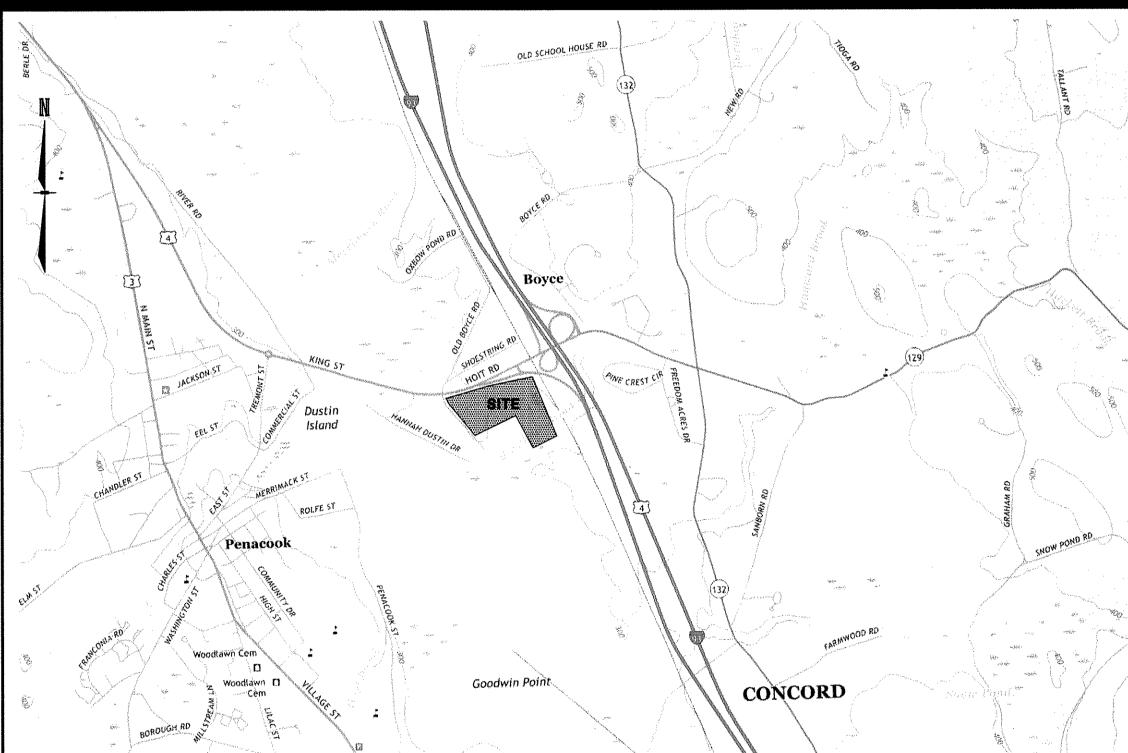
CONTACT DIG SAFE 72 BUSINESS HOURS PRIOR TO CONSTRUCTION

This plan is not effective unless signed by a duly authorized officer o TFMoran, Inc.

INTERCHANGE DEVELOPMENT LLC PHASE 2

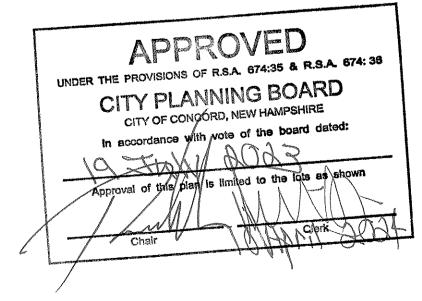
MERCHANTS WAY **CONCORD, NEW HAMPSHIRE**

VICINITY PLAN

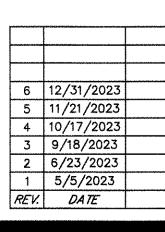




Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists



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City c Planni	of Cor ing Di			



2000 1000

SCALE: 1"=2000'

INDEX OF SHEETS

SHEET	SHEET TITLE
C-1	COVER
C-2	NOTES & LEGEND
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	ASBUILT PLAN - WENDY'S AT CONCORD CROSSING
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PERMITS / APPROVALS

MAJOR SITE PLAN NHDES SEWER DISCHARGE

NHDES ALTERATION OF TERRAIN

NHDES WETLANDS STANDARD DREDGE & FILL

NUMBER APPROVED EXPIRES

5/11/2021

2023-105 D2021-0410 2019-00778 8/23/2019 AoT-1831 7/13/2020

5/11/2024 8/23/2024 7/13/2024

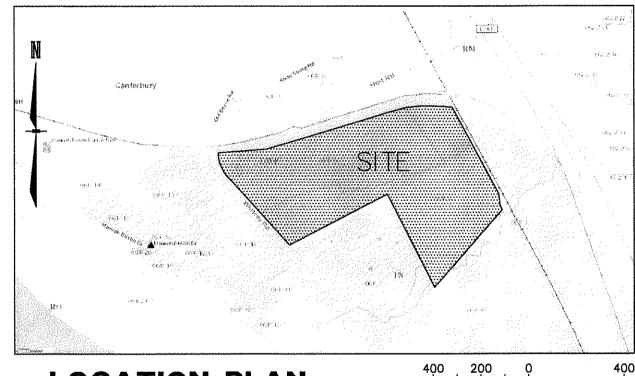
WAIVERS

THE FOLLOWING WAIVERS FROM THE CITY OF CONCORD, NH, SITE REVIEW REGULATIONS WERE GRANTED BY THE PLANNING BOARD ON JULY 19, 2023: 1. SITE REVIEW REGULATIONS SECTION 19 ACCESS & DRIVEWAY STANDARDS-TABLE 19-2 - NON

- RESIDENTIAL DRIVEWAY SPACING REQUIREMENTS. NO TWO LANE STREET SHALL BE GREATER THAN 28' IN WIDTH.
- 2. CITY OF CONCORD CONSTRUCTION STANDARDS MINIMUM 4' PIPE COVER STORM DRAIN.

THE CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING PERMITS TO BE OBTAINED FROM THE CITY OF CONCORD ENGINEERING SERVICES DIVISION:

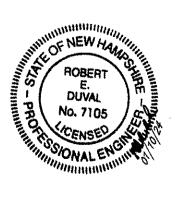
- A. DRIVEWAY PERMIT
- B. ENCUMBRANCE PERMIT (FOR WORK THAT WILL ENCUMBER THE ROW, PUBLIC SIDEWALKS AND/OR METERED PARKING SPACES)
- C. EXCAVATION PERMIT (FOR WORK WITHIN THE ROW) D. UTILITY CONNECTION PERMITS (SEWER AND WATER SERVICES; STORM DRAIN CONNECTIONS)



LOCATION PLAN

SCALE: 1"=4000





_			
	CITY ENGINEERING	JH	RD
	UMRLAC	JH	JH
	NHDES AOT	JH	JH
	CITY PLANNING / ENGINEERING	PH	JH
	CITY PLANNING / ENGINEERING	JH	RD
-	ISSUE FOR PERMITTING	JH	RD
	DESCRIPTION	DR	CK



LEGEND

PROPOSED

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PROPERTY LINE
ZONING LINE
EASEMENT
BASELINE
SETBACK (STRUCTURE)
SETBACK (PARKING)
SETBACK (LANDSCAPE)
GRAVEL ROAD
EDGE OF PAVEMENT
VERTICAL GRANITE CURB
SLOPED GRANITE CURB
CONCRETE CURB
INTEGRATED CONCRETE CURB
BUTIMINOUS ASPHALT CURB
CAPE COD BERM
TREE LINE
FENCE (CHAIN LINK)
SILT FENCE
5' CONTOUR
1' CONTOUR
SPOT GRADE
PARKING COUNT
ACCESSIBLE PARKING SYMBOL

TRAFFIC FLOW ARROW (NOT PAINTED)

SIGN (SINGLE POST)

PROPOSED
*
< ™~~# ™~~#

CONCRETE GRAVEL

CONSTRUCTION ENTRANCE

SNOW STORAGE RIPRAP DRAIN LINE SEWER LINE WATER LINE GAS LINE OVERHEAD UTILITY LINE UNDERGROUND UTILITY LINE WATER GATE VALVE WATER SHUTOFF FLOOD LIGHT UTILITY POLE TEST PIT LOCATION INFILTRATION TEST LOCATION

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GENERAL NOTES

- THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. TFMORAN, INC. ASSUMES NO LIABILITY AS A RESULT OF ANY CHANGES OR NON-CONFORMANCE WITH THESE PLANS EXCEPT UPON THE WRITTEN APPROVAL OF THE FNGINFER OF RECORD.
- 2. ALL IMPROVEMENTS SHOWN ON THE SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE CITY PLANNING BOARD.
- 3. ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE CITY OF CONCORD, AND SHALL BE BUILT IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. ALL WORK TO CONFORM TO CITY OF CONCORD DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS. ALL WORK WITHIN THE RIGHT-OF-WAY OF THE CITY AND/OR STATE SHALL COMPLY WITH APPLICABLE STANDARDS. COORDINATE ALL WORK WITHIN THE RIGHT-OF-WAY WITH APPROPRIATE CITY. COUNTY, AND/OR STATE AGENCY.
- 4. THE SITE CONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH APPLICABLE SECTIONS OF ENV-WQ 1500. THE SITE CONTRACTOR SHALL NOTIFY THE ENGINEER IN ADVANCE OF CONSTRUCTION OF EACH STORMWATER FACILITY TO COORDINATE REQUIRED INSPECTIONS. THE CONTRACTOR SHALL TAKE PROGRESS PHOTOS DURING CONSTRUCTION OF ALL STORMWATER DRAINAGE COMPONENTS AND SEND TO THE ENGINEER.
- 5. SEE EXISTING CONDITIONS PLAN FOR THE HORIZONTAL AND VERTICAL DATUM.
- 6. SEE EXISTING CONDITIONS PLAN FOR BENCHMARK INFORMATION. VERIFY TBM ELEVATIONS PRIOR TO CONSTRUCTION.
- 7. CONTACT EASEMENT OWNERS PRIOR TO COMMENCING ANY WORK WITHIN THE EASEMENTS.
- 8. PRIOR TO COMMENCING ANY SITE WORK, ALL LIMITS OF WORK SHALL BE CLEARLY MARKED IN THE FIELD.
- 9. SITE WORK SHALL BE CONSTRUCTED FROM A COMPLETE SET OF PLANS, NOT ALL FEATURES ARE DETAILED ON EVERY PLAN. THE ENGINEER IS TO BE NOTIFIED OF ANY CONFLICT WITHIN THIS PLAN SET
- 10. TEMORAN, INC. ASSUMES NO LIABILITY FOR WORK PERFORMED WITHOUT AN ACCEPTABLE PROGRAM OF TESTING AND INSPECTION AS APPROVED BY THE ENGINEER OF RECORD.
- 11. TEMPORARY FENCING SHALL BE PROVIDED AND COVERED WITH A FABRIC MATERIAL TO CONTROL DUST MITIGATION.
- 12. ALL DEMOLITION SHALL INSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKWAYS, AND ANY OTHER ADJACENT OPERATING FACILITIES. PRIOR WRITTEN PERMISSION FROM THE OWNER/DEVELOPER AND LOCAL PERMITTING AUTHORITY IS REQUIRED IF CLOSURE/OBSTRUCTIONS TO ROADS, STREET, WALKWAYS, AND OTHERS IS DEEMED NECESSARY, CONTRACTOR TO PROVIDE ALTERNATE ROUTES AROUND CLOSURES/OBSTRUCTIONS PER LOCAL/STATE/FEDERAL REGULATIONS.
- 13. REFER TO ARCHITECTURAL PLANS FOR LAYOUT OF BUILDING FOUNDATIONS AND CONCRETE ELEMENTS WHICH ABUT THE BUILDING SUCH AS STAIRS, SIDEWALKS, LOADING DOCK RAMPS PADS, AND COMPACTOR PADS. DO NOT USE SITE PLANS FOR LAYOUT OF FOUNDATIONS.
- 14. IN THE EVENT OF A CONFLICT BETWEEN PLANS, SPECIFICATIONS, AND DETAILS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
- 15. IF CONDITIONS AT THE SITE ARE DIFFERENT THAN SHOWN ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
- 16. CONTRACTOR'S GENERAL RESPONSIBILITIES:
- BID AND PERFORM THE WORK IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES, SPECIFICATIONS, REGULATIONS, AND STANDARDS AND CONDITIONS OF ALL PROJECT-SPECIFIC PERMITS AND APPROVALS AS LISTED ON THE COVER SHEET TO THESE PLANS
- B. NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES OF PROPOSED LAYOUT AND/OR EXISTING FEATURES.
- C. EMPLOY A LICENSED SURVEYOR TO DETERMINE ALL LINES AND GRADES AND LAYOUT OF SITE ELEMENTS AND BUILDINGS.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE TO BECOME FAMILIAR WITH THE SITE AND ALL SURROUNDING CONDITIONS. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY OF INTENTIONS AT LEAST 48 HOURS IN ADVANCE.
- E. TAKE APPROPRIATE MEASURES TO REDUCE, TO THE FULLEST EXTENT POSSIBLE, NOISE, DUST AND UNSIGHTLY DEBRIS FROM CONSTRUCTION ACTIVITIES.
- F. MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY WORK AT ALL TIMES.
- G. IN ACCORDANCE WITH RSA 430:53 AND AGR 3800, THE CONTRACTOR SHALL NOT TRANSPORT INVASIVE SPECIES OFF THE PROPERTY, AND SHALL DISPOSE OF INVASIVE SPECIES ON-SITE IN A LEGAL MANNER.
- H. COORDINATE WITH ALL UTILITY COMPANIES AND CONTACT DIGSAFE (811 OR 888-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION.
- PROTECT NEW AND EXISTING BURIED UTILITIES DURING INSTALLATION OF ALL SITE ELEMENTS. DAMAGED UTILITIES SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS. PREPARED BY TFMORAN, INC., DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS, OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE US OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
- K. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.
- L. VERIFY LAYOUT OF PROPOSED BUILDING FOUNDATIONS WITH ARCHITECT AND THAT PROPOSED FOUNDATION MEETS PROPERTY LINE SETBACKS PRIOR TO COMMENCING ANY FOUNDATION CONSTRUCTION.
- M. PROVIDE AN AS-BUILT PLAN AT THE COMPLETION OF THE PROJECT TO THE PLANNING DIRECTOR AND PER CITY REGULATIONS.
- N. THE UMRLAC RECOMMENDS THAT THE PROPERTY OWNER(S) AND/OR PROPERTY MANAGERS CONSIDER HIRING ONLY NEW HAMPSHIRE GREEN SNOWPRO CERTIFIED SALT APPLICATORS FOR THEIR SNOW AND ICE MANAGEMENT CONTRACTORS FOR THIS SITE. PROGRAM INFORMATION INCLUDING A LIST OF CERTIFIED GREEN SNOWPRO SALT APPLICATORS CAN BE FOUND BY HTTPS://WWW.DES.NH.GOV/LAND/ROADS/ROAD-SALT-REDUCTION/GREEN-SNOWPRO-CERTIFICATION

GRADING NOTES

- 1. THE CONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF NHDES ENV-WQ 1500 AS APPLICABLE.
- 2. THE CONTRACTOR SHALL PREPARE, MAINTAIN, AND EXECUTE A S.W.P.P.P. IN ACCORDANCE WITH EPA REGULATIONS AND THE CONSTRUCTION GENERAL PERMIT
- 3. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO SUBMIT AN eNOI AT LEAST 14 DAYS IN ADVANCE OF ANY EARTHWORK ACTIVITIES AT THE SITE.
- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK THE ACCURACY OF THE TOPOGRAPHY AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO ANY EARTHWORK BEING PERFORMED ON THE SITE. NO CLAIM FOR EXTRA WORK WILL BE CONSIDERED FOR PAYMENT AFTER EARTHWORK HAS COMMENCED.
- 5. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR INFORMATION ABOUT SOIL AND GROUNDWATER CONDITIONS. THE CONTRACTOR SHALL FOLLOW THE GEOTECHNICAL ENGINEER'S RECOMMENDED METHODS TO ADDRESS ANY SOIL AND GROUNDWATER ISSUES THAT ARE FOUND ON SITE.
- 6. COORDINATE WITH GEOTECHNICAL/STRUCTURAL PLANS FOR SITE PREPARATION AND OTHER BUILDING INFORMATION.
- 7. COORDINATE WITH ARCHITECTURAL PLANS FOR DETAILED GRADING AT BUILDING, AND SIZE AND LOCATION OF ALL BUILDING SERVICES.
- 8. COORDINATE WITH MECHANICAL AND PLUMBING PLANS FOR ROOF DRAIN INFORMATION.
- 9. LIMITS OF WORK ARE SHOWN AS APPROXIMATE. THE CONTRACTOR SHALL COORDINATE ALL WORK TO PROVIDE SMOOTH TRANSITIONS. THIS INCLUDES GRADING, PAVEMENT, CURBING, SIDEWALKS, AND ALIGNMENTS.
- 10. THE CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCE, RAMPS, AND LOADING AREAS.
- 11. THE SITE SHALL BE GRADED SO ALL FINISHED PAVEMENT HAS POSITIVE DRAINAGE AND SHALL NOT POND WATER DEEPER THAN 1/4" FOR A PERIOD OF MORE THAN 15 MINUTES AFTER FLOODING.
- 12. ALL ELEVATIONS SHOWN AT CURB ARE TO THE BOTTOM OF CURB UNLESS OTHERWISE NOTED, CURBS HAVE A 6" REVEAL UNLESS OTHERWISE NOTED.
- 13. ALL SIDEWALK AND OTHER CURB REVEALS SHALL BE 6" WITH A TOLERANCE OF PLUS OR MINUS 3/8". WHERE SIDEWALK IS TO BE FLUSH, THE PAVEMENT REVEAL SHALL BE 1/4" WITH A TOLERANCE OF 1/8".
- 14. THE FINISHED GRADE AT BOTTOM OF ALL ACCESSIBLE RAMPS SHALL BE FLUSH WITH PAVEMENT WITH A TOLERANCE OF PLUS OR MINUS 1/4".
- 15. ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE PRIOR TO INSTALLATION OF FINISHED PAVEMENT.
- 16. ROAD AND DRAINAGE CONSTRUCTION SHALL CONFORM TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS AND SHALL MEET LOCAL STANDARDS AND THE REQUIREMENTS OF THE LATEST NHDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION AND THE NHOOT STANDARD STRUCTURE DRAWINGS UNLESS OTHERWISE NOTED.
- 17. STORMWATER DRAINAGE SYSTEM SHALL BE CONSTRUCTED TO LINE AND GRADE AS SHOWN ON THE PLANS. CONSTRUCTION METHODS SHALL CONFORM TO NHDOT STANDARD SPECIFICATIONS, SECTION 603. CATCH BASINS AND DRAIN MANHOLES SHALL CONFORM TO SECTION 604. ALL CATCH BASIN GRATES SHALL BE TYPE B AND CONFORM TO NHDOT STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
- 18. NO FILL SHALL BE PLACED IN ANY WETLAND AREA.
- 19. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
- 20. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED, FERTILIZER, AND MULCH.
- 21. DENSITY REQUIREMENTS:

MINIMUM DENSITY*	LOCATION
95%	BELOW PAVED OR CONCRETE AREAS
95%	TRENCH BEDDING MATERIAL AND SAND BLANKE
90%	BELOW LOAM AND SEED AREAS
*ALL PERCENTAGES OF C	OMPACTION SHALL BE OF THE MAXIMUM DRY DEN
	ENT AS DETERMINED AND CONTROLLED IN ACCOR
ASTM D-1557, METHOD C	: FIELD DENSITY TESTS SHALL BE MADE IN ACCO
ASTM D-1556 OR ASTM I	D—6938.

6	12/31/2023	
5	11/21/2023	
4	10/17/2023	
3	9/18/2023	
2	6/23/2023	
1	5/5/2023	
REV.	DA TE	

UTILITY COMPANY. OPERATIONAL. CONDUITS REQUIRED PRIOR TO INSTALLATION OF ANY CONDUIT. STANDARDS AND SPECIFICATIONS SHOWN HEREON. WATER LINE. DIRECTIONS OR CONNECTS TO ANOTHER WATER LINE. LIGHTS. CONDUIT TO BE A MINIMUM OF 24" BELOW FINISH GRADE. HAVE NYLON PULL ROPES. INDICATED. VEHICLE LOADS. 16. THE PROPERTY WILL BE SERVICED BY THE FOLLOWING: DRAINAGE PRIVATE SEWER MUNICIPAL WATER MUNICIPAL ELECTRIC UNITIL

SITE DEVELOPMENT PLANS TAX MAP 06P LOT 5 **NOTES & LEGEND** PHASE 2 SITE PLANS MERCHANTS WAY, CONCORD, NH OWNED BY/ PREPARED FOR INTERCHANGE DEVELOPMENT L.L.C. MARCH 14, 2023 SCALE: NTS 48 Constitution Drive Civil Engineers Structural Engineers Bedford, NH 03110 JH RD **Traffic Engineers** CITY ENGINEERING Phone (603) 472-4488 UMRLAC HL HL Land Surveyors Fax (603) 472-9747 Landscape Architects NHDES AoT HL HL www.tfmoran.com Scientists CITY PLANNING / ENGINEERING PH JH JH RD CITY PLANNING / ENGINEERING 95830.08 CK JSH CADFILE JH RD C-2ISSUE FOR PERMITTING 95830-08_SITE PLANS DR CK DESCRIPTION

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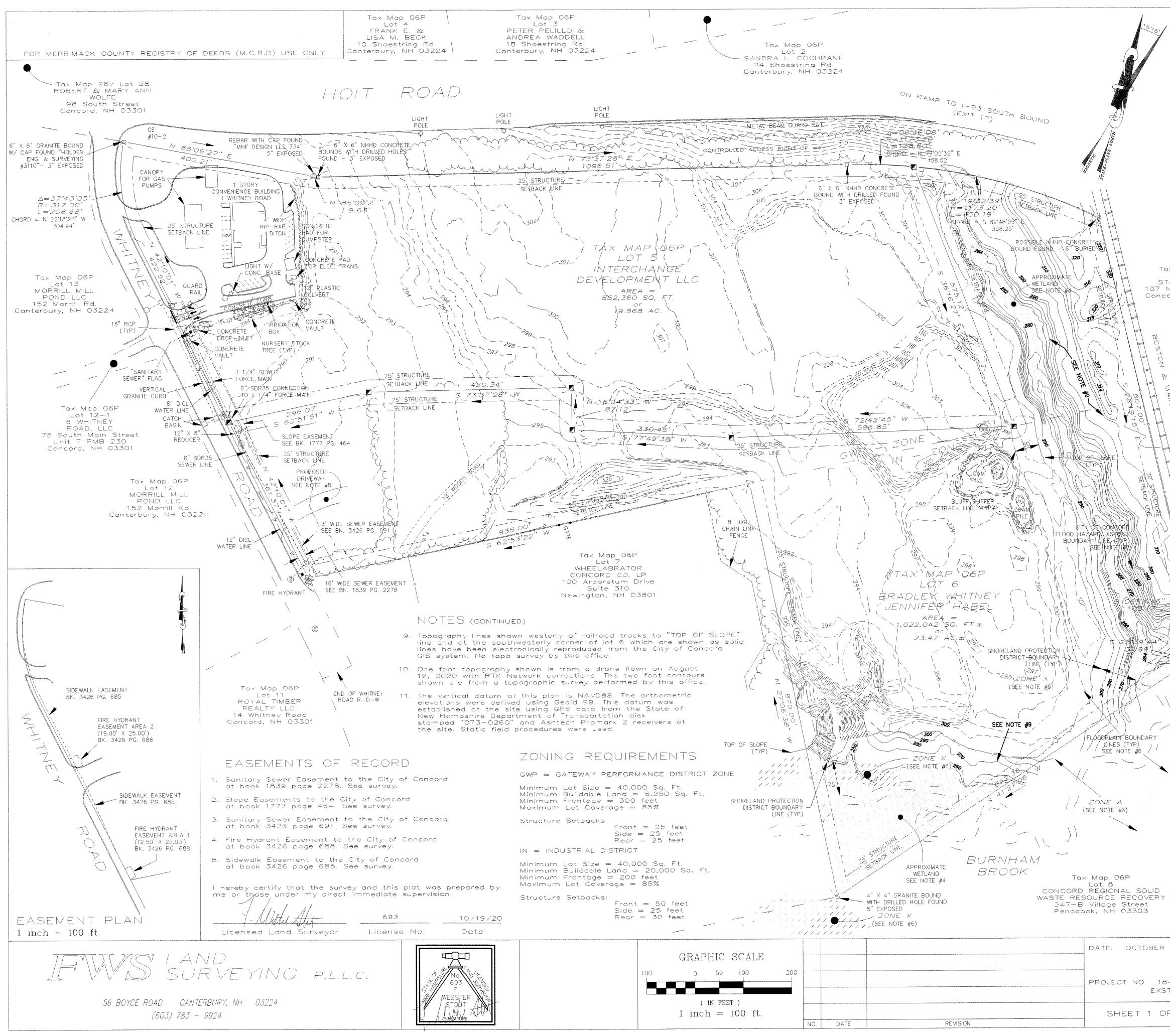
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1. ALL PROPOSED UTILITY WORK, INCLUDING MATERIAL, INSTALLATION, TERMINATION,

UTILITY NOTES

- EXCAVATION, BEDDING, BACKFILL, COMPACTION, TESTING, CONNECTIONS, AND CONSTRUCTION SHALL BE COORDINATED WITH AND COMPLETED IN ACCORDANCE WITH THE APPROPRIATE REQUIREMENTS, CODES, AND STANDARDS OF ALL CORRESPONDING UTILITY ENTITIES AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS, PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION BE AGREED TO BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT "DIGSAFE" (811) AT LEAST 72 HOURS BEFORE DIGGING.
- COORDINATE ALL WORK ADJACENT TO PROPOSED BUILDINGS WITH ARCHITECTURAL BUILDING DRAWINGS. CONFIRM UTILITY PENETRATIONS AND INVERT ELEVATIONS ARE COORDINATED PRIOR TO INSTALLATION.
- 4. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA AND SHALL COORDINATE AS NECESSARY WITH THE UTILITY COMPANIES OF SAID UTILITIES. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 5. THE EXACT LOCATION OF NEW UTILITY CONNECTIONS SHALL BE DETERMINED BY THE CONTRACTOR IN COORDINATION WITH UTILITY COMPANY, COUNTY AGENCY, AND/OR PRIVATE
- 6. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE UTILITY INSTALLATION COMPLETE AND
- 7. ALL UTILITY COMPANIES REQUIRE INDIVIDUAL CONDUITS. CONTRACTOR TO COORDINATE WITH TELEPHONE, CABLE, AND ELECTRIC COMPANIES REGARDING NUMBER, SIZE, AND TYPE OF
- 8. SANITARY SEWER SHALL BE CONSTRUCTED TO THE STANDARDS AND SPECIFICATIONS AS SHOWN ON THESE PLANS. ALL SEWER MAINS AND FITTINGS SHALL BE PVC AND SHALL CONFORM TO ASTM F 679 (SDR 35 MINIMUM). FORCE MAINS AND FITTINGS SHALL CONFORM TO NH CODE OF ADMINISTRATIVE RULES ENV-WQ 700. ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH NH CODE OF ADMINISTRATIVE RULES ENV-WQ 700. SANITARY MANHOLES SHALL CONFORM TO NHDES WATER DIVISION WASTEWATER ENGINEERING BUREAU
- 9. ON-SITE WATER DISTRIBUTION SHALL BE TO CITY OF CONCORD STANDARDS AND SPECIFICATIONS. WATER MAINS SHALL HAVE A MINIMUM OF 5.5' COVER. WHERE WATER PIPES CROSS SEWER LINES A MINIMUM OF 18" VERTICAL SEPARATION BETWEEN THE TWO OUTSIDE PIPE WALLS SHALL BE OBSERVED. HORIZONTAL SEPARATION BETWEEN WATER AND SEWER SHALL BE 10' MINIMUM. WHERE A SANITARY LINE CROSSES A WATER LINE, SEWER LINE MUST BE CONSTRUCTED OF FORCE MAIN MATERIALS (PER ENV-WQ 704.08) FROM BUILDING OR MANHOLE TO MANHOLE, OR SUBSTITUTE RUBBER-GASKETED PRESSURE PIPE FOR THE SAME DISTANCE. WHEN SANITARY LINES PASS BELOW WATER LINES, LAY PIPE SO THAT NO JOINT IN THE SANITARY LINE WILL BE CLOSER THAN 6' HORIZONTALLY TO THE
- 10. THRUST BLOCKS SHALL BE PROVIDED AT ALL LOCATIONS WHERE WATER LINE CHANGES
- 11. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT AND WIRING TO ALL SIGNS AND
- 12. ALL PROPOSED UTILITIES SHALL BE UNDERGROUND. ALL UNDERGROUND CONDUITS SHALL 13. THE CONTRACTOR SHALL ARRANGE AND PAY FOR ALL INSPECTIONS, TESTING, AND RELATED
- SERVICES AND SUBMIT COPIES OF ACCEPTANCE TO THE OWNER, UNLESS OTHERWISE
- 14. PROVIDE PERMANENT PAVEMENT REPAIR FOR ALL UTILITY TRENCHES IN EXISTING ROAD OR PAVEMENT TO REMAIN. SAW CUT TRENCH, PAVEMENT, AND GRANULAR BASE THICKNESS TO MATCH EXISTING PAVEMENT. OBTAIN ALL PERMITS REQUIRED FOR TRENCHING.
- 15. UNLESS OTHERWISE SPECIFIED, ALL UNDERGROUND STRUCTURES, PIPES, CHAMBERS, ETC. SHALL BE COVERED WITH A MINIMUM OF 18" OF COMPACTED SOIL BEFORE EXPOSURE TO

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(\$) UT UC		ID TELEPHONE	VICINITY MAP SC	$\frac{1}{2} = 5000^{\circ} \pm$
		TES	. Mars OFF Lat 6 - Dradiou White	
Tax Map 06P Lot 1	Habe NH (el having a maili)3234. For deed	nx Map 06P Lot 6 — Bradley Whitn ng address of 78 North Pembroke reference see Probate #15-02345	Road — Epsom,
STATE OF NH 107 North Main S Concord, NH 033	St. havir	ng a mailing add	ax Map 06P Lot 5 — Interchange D dress of 152 Morrill Road — Canter see M.C.R.D. at Bk. 3219 Pg. 598.	evelopment LLC bury, NH 03224.
	by t with erroi of A surv	his office betwee an electronic to of closure of 1 dministration Ru evs of real prop	n shown for Lot 5 is from a field on the dates of February 2007 and otal station instrument having a co in 22165. Performed according to les (Lan 503.04- Classification "U erty. Boundary information shown ndary survey has been performed	d December 2013 ontrol traverse the NH Code ") for the for Lot 6 is from
TON & N	was New "073	established at t Hampshire Depo	n of this plan is NAD88 (CORS 96 the site using GPS data from the artment of Transportation standard ntech Promark 2 receivers at the e used.	State of disk designation
MAINER	, ,		o of wetlands outside of the project	
	delin utiliz	eated by Gove E ing the following	Environmental Services, Inc., on 10	/18,/2018
	Engi Regi	neer's Wetland D on, Technical Re	elineation Manual: Northcentral and port ERDC,/EL_TR-12-1. January 2	1 Northeast 2012. Version 2.0.
30.	lden	tifying and Delin	ydric Soils in the United States. A eating Hydric Soils, Version 7.0. Ur of Agriculture (2010).	Guide for hited
	curr	ent version.	tal Flora: National Wetland Plant L lines shown hereon have been elec	
	repr	oduced from the	FIRM-Flood Insurance Rate Map- 0337E with an effective date of A	Panel 0337E –
015 005 015		annual chance or with drainag protected by le	as of 0.2% annual chance flood: a flood with average depths of less ge areas less than 1 square mile; evees from 1% annual chance flood	than 1 foot and areas J.
	flood	dplain (no shadir	termined to be outside the 0.2% c ng). Tood Hazard Areas (SFHAs) subjec	
	Бу t 7. А р	he 1% annual ch ortion of Tax Mc	nance flood — No base Flood Eleve ap 06P Lot 6 is located within the	tions determined. Flood Hazard
TIE =	as s) ^{0" E} 8. The	proposed drivew	t consists of ZONE A and ZONE X ay location WILL BE in compliance	with the existing
17.29	ease	ments along Wh of Concord.	itney Road. See Bk. 3426 Pg. 691	for rights of the
DRILLED HOLE IN CENTER OF BLOCK CULVER BURNHAM BRO	FOUND 1. Plan GRANITE & S TOVER HOL	SUSAN A. WHITNE	IVISION PLAN OF THE LAND OF ROI EY" dated March 15, 1990. Prepare & Surveying, Inc. and recorded at	d by
DARY	2. Plar date		UBDIVISION PLAT LAND OF SUSAN 10. Prepared by this office and re mber 19568.	
	3. Plar CON Con	entitled "EASE IPANY, INC." dot	MENT PLAN PREPARED FOR DRAKE ed January 22, 2013. Prepared by d recorded at the M.C.R.D. as play	MHF Design
	INTE	RCHANGE DEVLO	UBDIVISION PLAT LAND OF SUSAN OPMENT LLC" dated Februsry 10, 2 orded at the M.C.R.D. as plan num	014. Prepared by
			PROVED	
		1	PLANNING BOARD	
X	101 1		CONCORD. NEW HAMPSHIRE dance with vote of the board dated:	
OLID VERY VERY at 03		Approval o	f this plat is limited to lote as shown	
~~			Clerk Mchair	
OBER 19, 2020	EXIS	TING	CONDITIONS	PLAT
0. 18-032	BRADL		LANDS OF TNEY AND JENNIFER	
EXSTDRONE	INTE	RCHANC	GE DEVELOPMENT	

LOCATION

WHITNEY ROAD - CONCORD, NH - MERRIMACK COUNTY

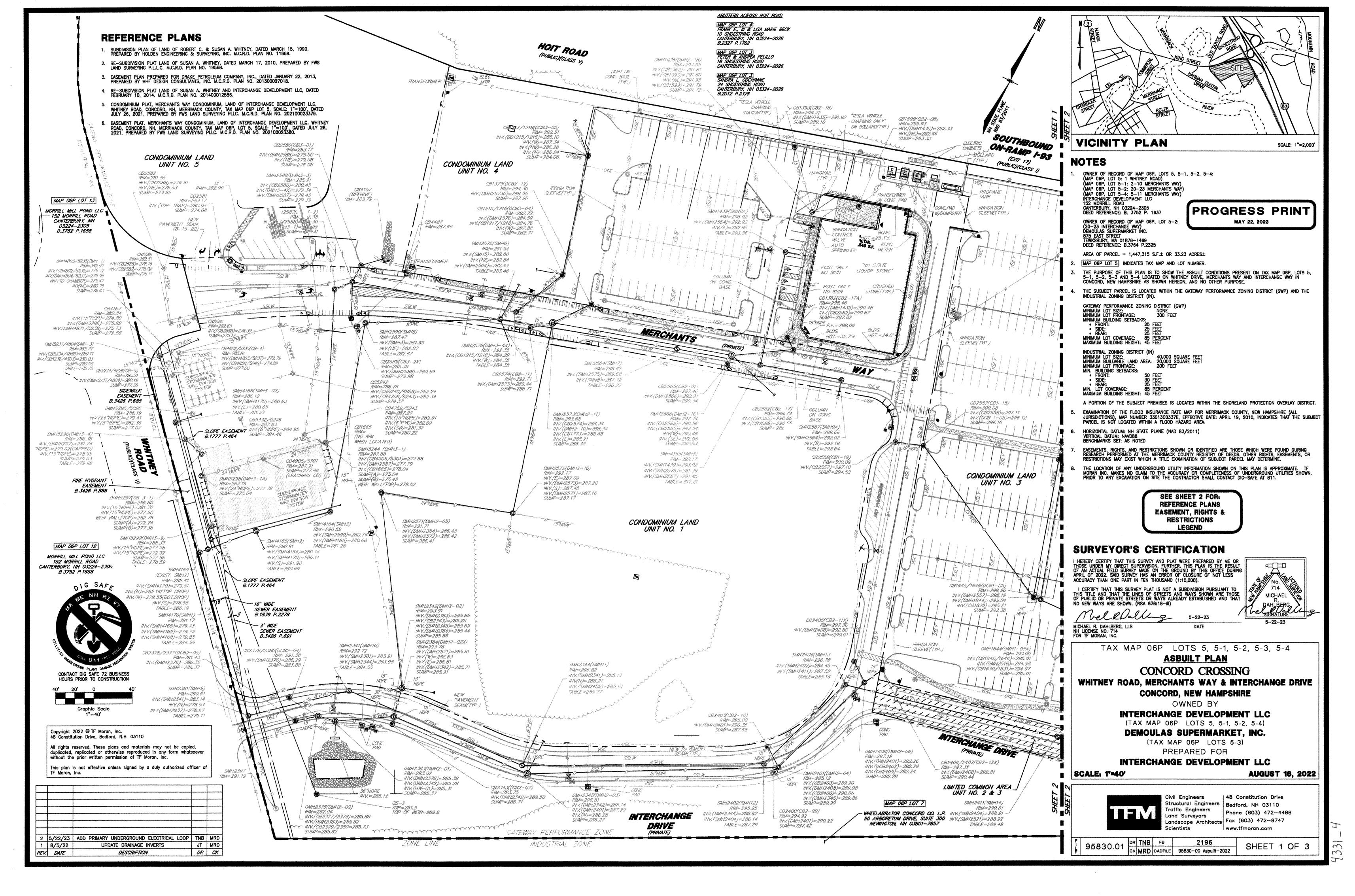
TAX MAP O6P LOTS 5 & 6

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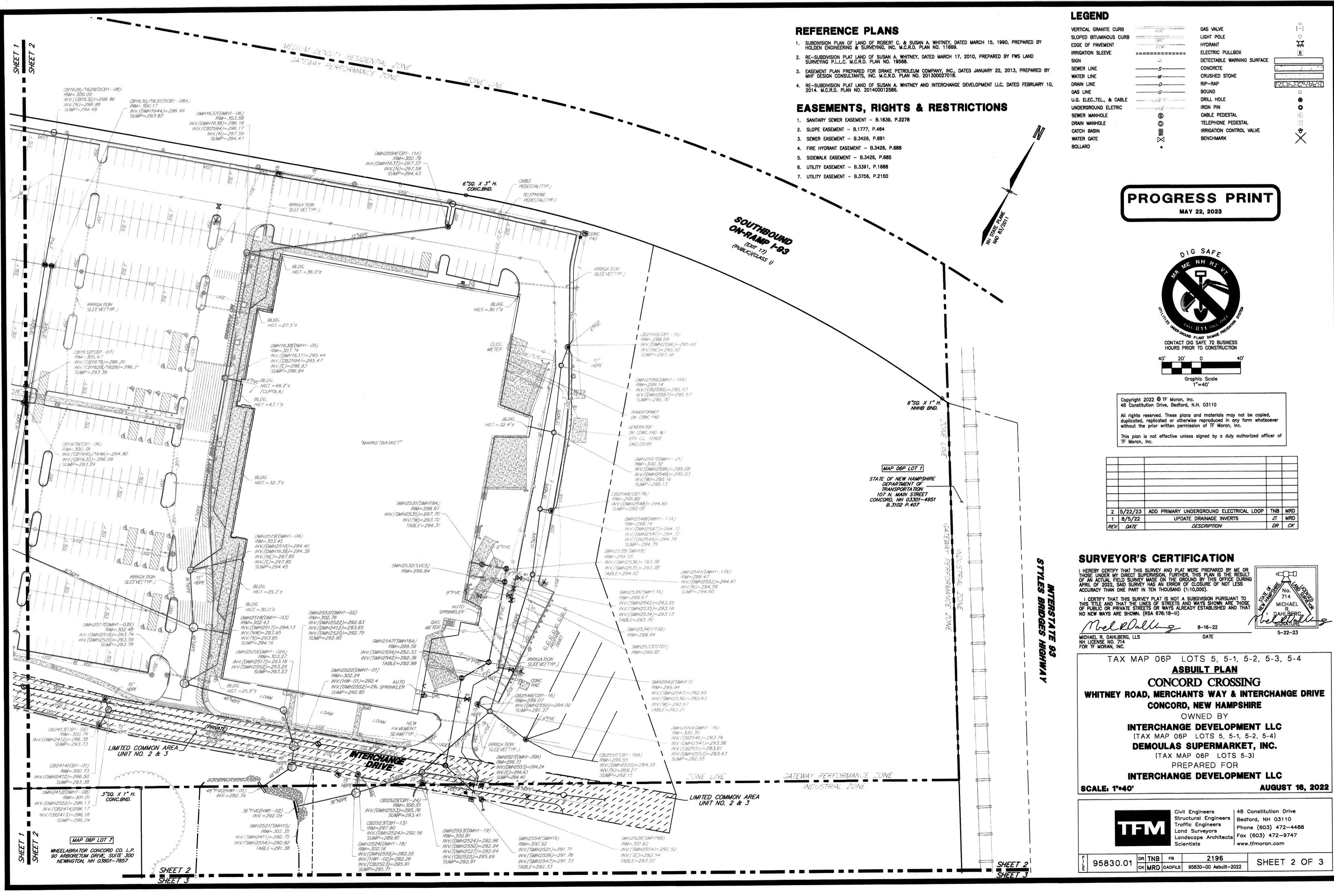
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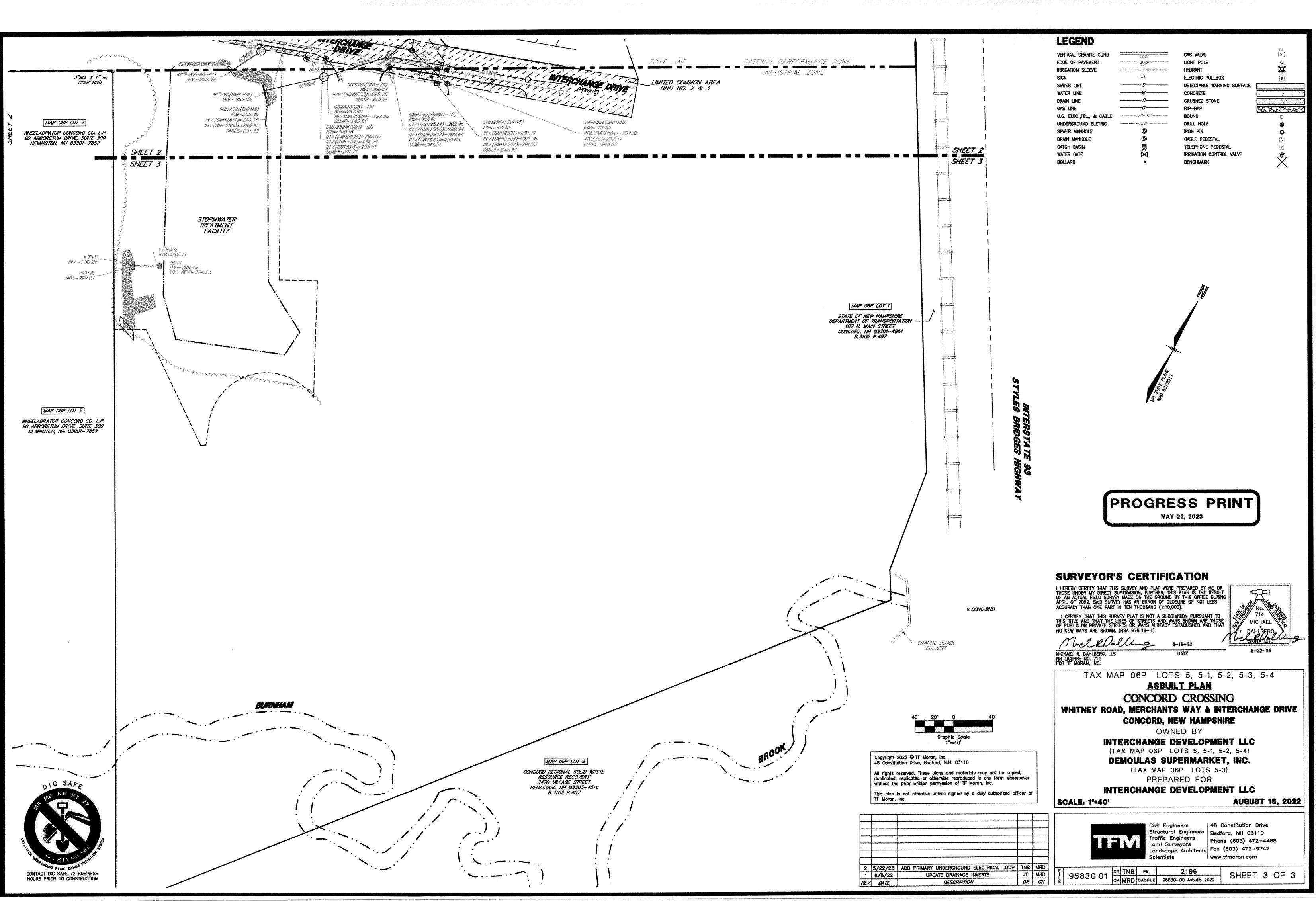
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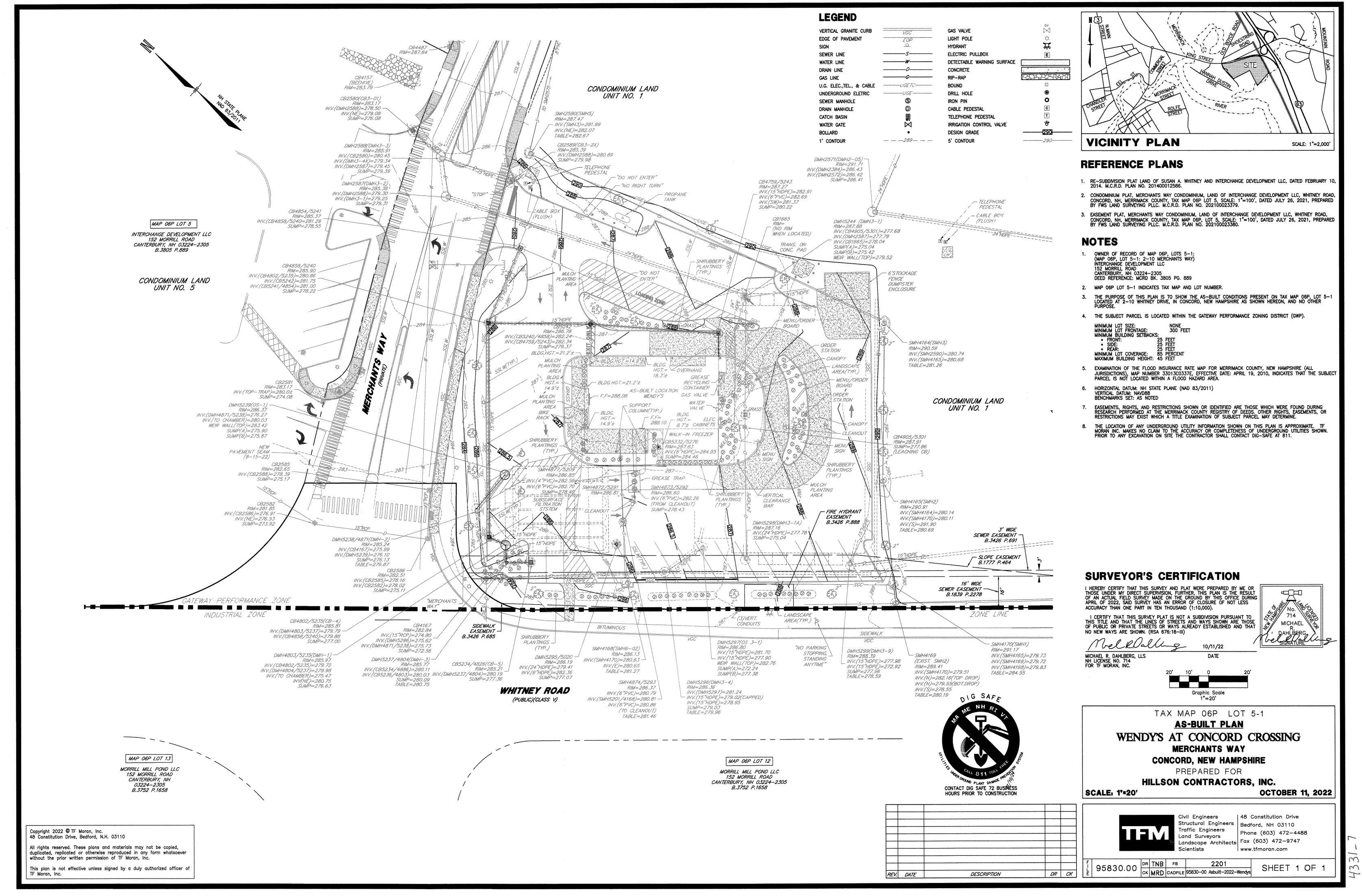
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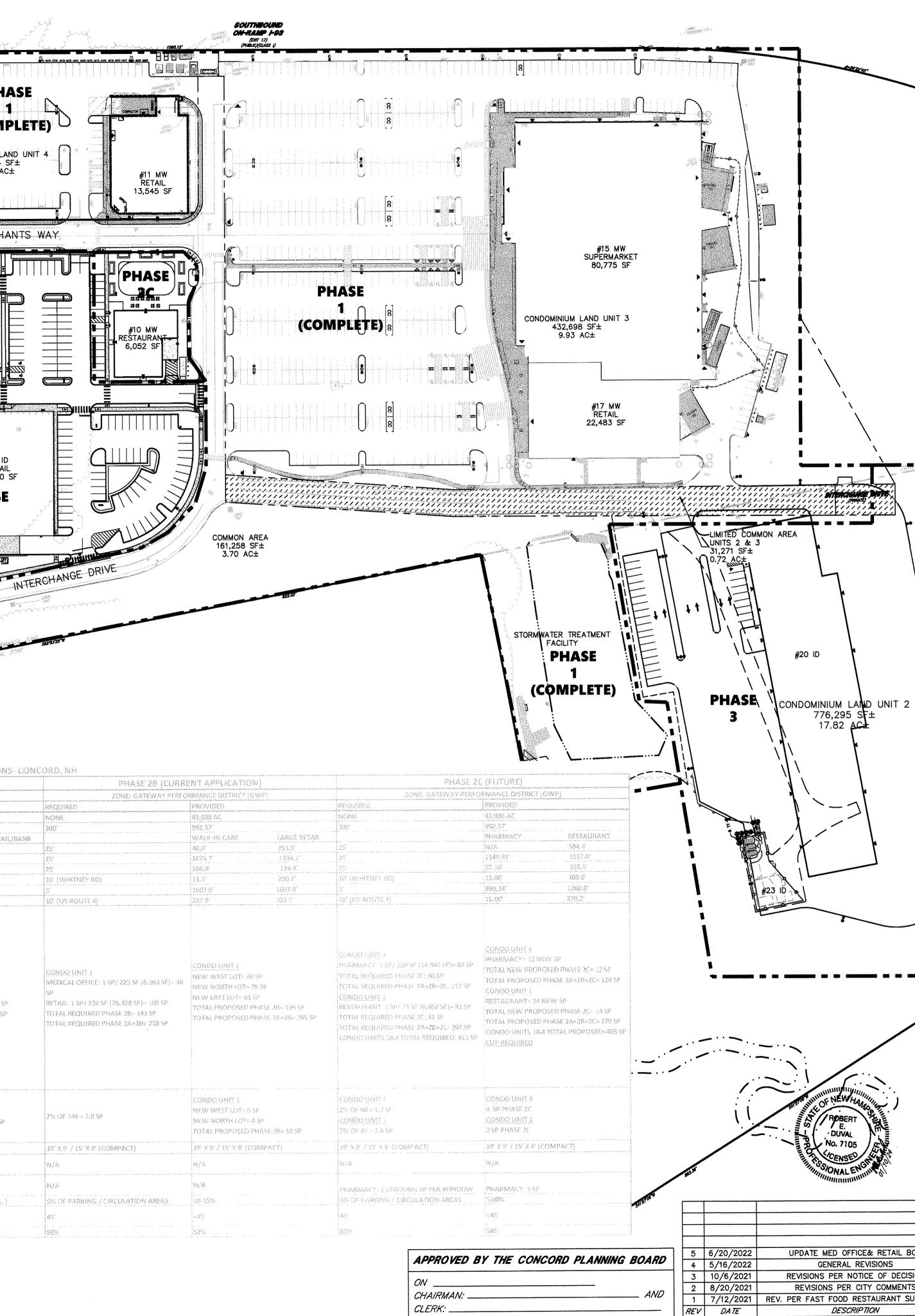




REV.	DATE	

	COMMON AREA 1,260 SF± 0.03 AC±			
		#1 WHITNEY ROAD ONDOMINIUM LAND UNIT 5 97,228 SF± 2.23 AC± SUBSTANTIALLY COMPLETE"	#9 MW RETAIL 14,842 SF #7 MW #5 MW	PH COM COM CONDOMINIUM LA 116,224 2,67 AC
		#2 MW FAST FOOD RESTAURANT 2,247 SF	PHASE 24 1500 st #6 MW RETAIL 2,750 SF 0MPLETE #8 MW BANK 2,500 SF	
M			#1 ID WALK-IN CARE 4,951 SF	#7 ID RETAIL 2,562 SF #9 ID RETAIL 23,520 3,612 SF PHASE 2B
				GATEWAY DEPETORM INDUSTRIAL
	PHASE 1.(COA	a og sen er sen en sen en sen en sen en sen er s A P & C T T C D Z O Z D)		RLE OF ZONING REGULATION PLETED 2022-2023)
DESCRIPTION MINIMUM LOT AREA SQ FI MINIMUM LOT FRONTAGE MINIMUM RECEIPTION TAGE MINIMUM REAR VARO BUILDING SETBACK MINIMUM REAR VARO BUILDING SETBACK MINIMUM REAR VARO PARKING SETBACK MINIMUM REAR VARO PARKING SETBACK	REQUIRED NORE 255 255 255 107 (WHITNEY ROI	AMANCE (D5TRICT (GWP) 43.038 AC 992.57 AFTAR 80.025 80.027 1.105.47 1.115.78 459.45' 678.05' 1.177.91 1.177.91 1.4.75 1.4.95	ZONE: GATEWAY PERF REQUIRED NONE 300' 25 25 25 25 25 25 25 25 25 25 25 25 25	ORMANCE DISTRUCY (GWP) PROVIDED 43.038 AC 992.57 FAST FOOD REST/RETAX 76.0 1736.9 121.2 295.0 13.00 326.5 3716.9 255.9 255.9 255.9
, BARING SA MUMBER PARITIG SPACES : :	CONDO MINIT 3 SUPERMARKET: 1 5P7 250 SF (80, 775 SF)- 323 RETAD, 1: 2: SP7 250 SF (22, 483 SF)= 30 SP CONDO MINIT 4 RETAH, 2: 1 SP7 250 SF (13, 554 SP)= 54 SP TOTAL REQUIRED: 467 SP	SP Supermarket/Retail 1= 357 SP Sconing Linet S Retail 2= 132 SP Total Provided: See SP (Incl 28 ADA)	CONDO UNIT I FAST FOOD: 1 SP/ 75 SF (2,247 SF)= 30 SP RESTAURANT: 1 SP/ 75 SF (1,500 SF)= 20 SP RETAIL: 1 SP/ 250 SF (2,750 SF)= 11 SP BANK: 1 SP/ 200 SF (2,500 SF)= 12 SP TOTAL REQUIRED PHASE 2A: 73 SP	Condo UNIT 3 Fast Food= 30 SP Restaurant/Retail/Bank= 35 SP Total Provided Phase 2a= 66 SP
Manadana Manader and Parring Space	7% OF 464 - 9.3 SP	CONDO UNITS SUPERMARKAT/RETABLI - 24 SP CONDO UNIT 4 NETAIL 24 A SP TOTAL PROVIDED: 28 59 12 MB (232 K S) (COMPACT)	2% 09 73 - 1.5 SP	CONDO UNIT 1 FAST FOOD= 2 SP RESTAURANT/RETAIL/BANK- 2 SP TOTAL PROVIDED: 4 SP
PARKING SPACE INMERSIONS MINIMANUN COLUMG AREAS MINIMUNA ORME THREESTACENERG MINIMUNA INTERNAL LANDSCAPING MINIMUNA BUILDING HERCHT	19' X 9' / 19' X 8' (COMPACT) 3 SPACE FOR RETAIL @103.000 SF 1 SPACE FOR RETAIL @ 13.500 SF N/A 5% OF PARKING / CIRCULATION AREAS	19" X 9" / 15" X 8" (COMPACY) 4 SPACES FOR RETAIL @ 103.000 SF 1 SPACE FOR RETAIL @ 13.500 SF N/A 5.555% 37.0" Supermarke! 25.3" Liquor More		15 X 9 / 15 X 8 (COMPACT) N/A BANK: 10 SP FAST FOOD: 12 SP N/A % (LESS THAN 50 SPACES FA.) <45
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Antoning Street Contraction (1995 and	NAMAGNAL CONTACT	(*************************************	992.57
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	MINIMUM FRONT YARD BUILDING SETBACK		- N/A
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	MINIMUM INTERNAL LANDSCAPING	ST. OF PARKING / CIRCHIATION AREAS	5.00%
	MAXIMUM BUILDING HERSFIT	45	<45'
	UNIVERSITY COLORAD COLLAR C	se o an a caracterization and a static activity factor for a static contracterization of the static static factor of the static static factor of the static st	
	MAXIMUM LOT COVERAGE (IMPERVICUS)	86%	(635%)

REFERENCE PLANS

- 1. RE-SUBDIVISION PLAT LANDS OF SUSAN A. WHITNEY AND INTERCHANGE DEVELOPMENT LLC. LOCATION, WHITNEY ROAD - CONCORD, NH - MERRIMACK COUNTY, TAX MAPS 06P LOTS 5 & 6. PREPARED BY FWS LAND SURVEYING P.L.L.C., DATED FEB. 10, 2014 LAST REVISED MAY 01, 2014.
- 2. "AS -BUILT PLAN -CONCORD CROSSING", WHITNEY ROAD, MERCHANTS WAY & INTERCHANGE DRIVE, CONCORD, NH, DATED 8/16/22, BY TFMORAN.
- 3. "AS-BUILT PLAN-WENDY'S AT CONCORD CROSSING", MERCHANTS WAY, CONCORD, NH, DATED 10/11/22, BY TFMORAN.
- 4. "SITE DEVELOPMENT PLANS, 4-8 MERCHANTS WAY DEVELOPMENT", MERCHANTS WAY, CONCORD, NH, DATED 1/19/22 (REVISED THRU 8/15/22), BY TFMORAN.

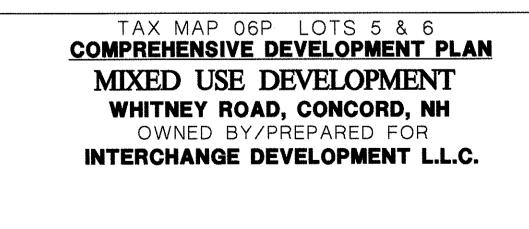
NOTES

#20 ID

776,295 SF±

17.82 AC

- 1. THE PURPOSE OF THIS PLAN IS TO SHOW A MIXED USE DEVELOPMENT WHICH INCLUDES A LOT LINE ADJUSTMENT, COMMON ACCESS/PARKING AREAS AND COMMON UTILITIES.
- 2. THE PROPERTY WILL BE SERVICED BY THE FOLLOWING SERVICES: DRAINAGE: PRIVATE SEWER: MUNICIPAL
- WATER: MUNICIPAL ELECTRIC: UNITIL
- 5. BOUNDARY INFORMATION SHOWN HEREON IS BASED ON REFERENCE PLAN INFORMATION.
- 4. WETLANDS INFORMATION DEPICTED ON THIS PLAN IS FROM REFERENCE PLAN INFORMATION.
- 5. EXAMINATION OF THE FLOOD INSURANCE RATE MAP FOR THE CITY OF CONCORD, NEW HAMPSHIRE, COMMUNITY PANEL NUMBER 33013C0337E, EFFECTIVE DATE: APRIL 18, 2010, INDICATES THAT THE SUBJECT PARCEL IS PARTIALLY LOCATED WITHIN A FLOOD HAZARD AREA.
- 6. EASEMENTS, RIGHTS, AND RESTRICTIONS SHOWN ARE THOSE WHICH IDENTIFIED BASED ON DATA USED IN CONCEPTUAL DESIGN. OTHER RIGHTS, EASEMENTS, OR RESTRICTIONS MAY EXIST WHICH DEED RESEARCH AND A TITLE EXAMINATION OF SUBJECT PARCEL(S) WOULD DETERMINE.



SCALE: 1'=80'

JUNE 17, 2019

UPDATE MED OFFICE& RETAIL BOX GENERAL REVISIONS REVISIONS PER NOTICE OF DECISION	MSK PWH	JSH JSH JSH				N	Str Tra Lar	il Engineers uctural Engineers iffic Engineers nd Surveyors ndscape Architects entists	Bedfo Phone Fax (onstitution Drive ord, NH 03110 e (603) 472–4488 603) 472–9747 fmoran.com	
REVISIONS PER CITY COMMENTS	PWH	JSH	F	I	1		60				
PER FAST FOOD RESTAURANT SUBMITTAL	PWH	JSH		95830.08		JSH	FB			C-3	
DESCRIPTION	DR	CK			Cł	RED	CADFILE	95830-08 Site PI	ans	÷ •	1

	#1 WHITNEY ROAD CONVENIENCE MART			
		#2 MW FAST FOOD RESTAURANT 2,247 SF	#4MW STAURANT 500 SF #6MW RETAIL 750 SF #8MW BANK	
	A MILLING		500 SF #7 ID PROPOSED RETAIL 2,562 SF	
		WALK-IN CARE 4,951 SP		
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M		1000 251.9 1866.8 2000	SJ INT	ERCHI PARTORMAN DUSTRIAL 7
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SX SCRIPTION AMINIMUM TOT AREA SQ PI MINIMUM TOT AREA SQ PI MINIMUM COT FRONT YARO BUILDING SETBACK MINIMUM REAR YARO BUILDING SETBACK		DRMANCE DISTRICT (GWP) PROVIDED 43.038 AC 992.57 FAST FOOD REST/RETAIL/BAINK 75.9 1588.0	ZONE: GATEWAY PERFC REQUIRED NOWE 300' 25' 25'	ERCH A. COMMAN DRIMANA DRIMANA PROVI 43.038 992.57 WALK 40.0 1673.7 166.8 13.1 1607.0
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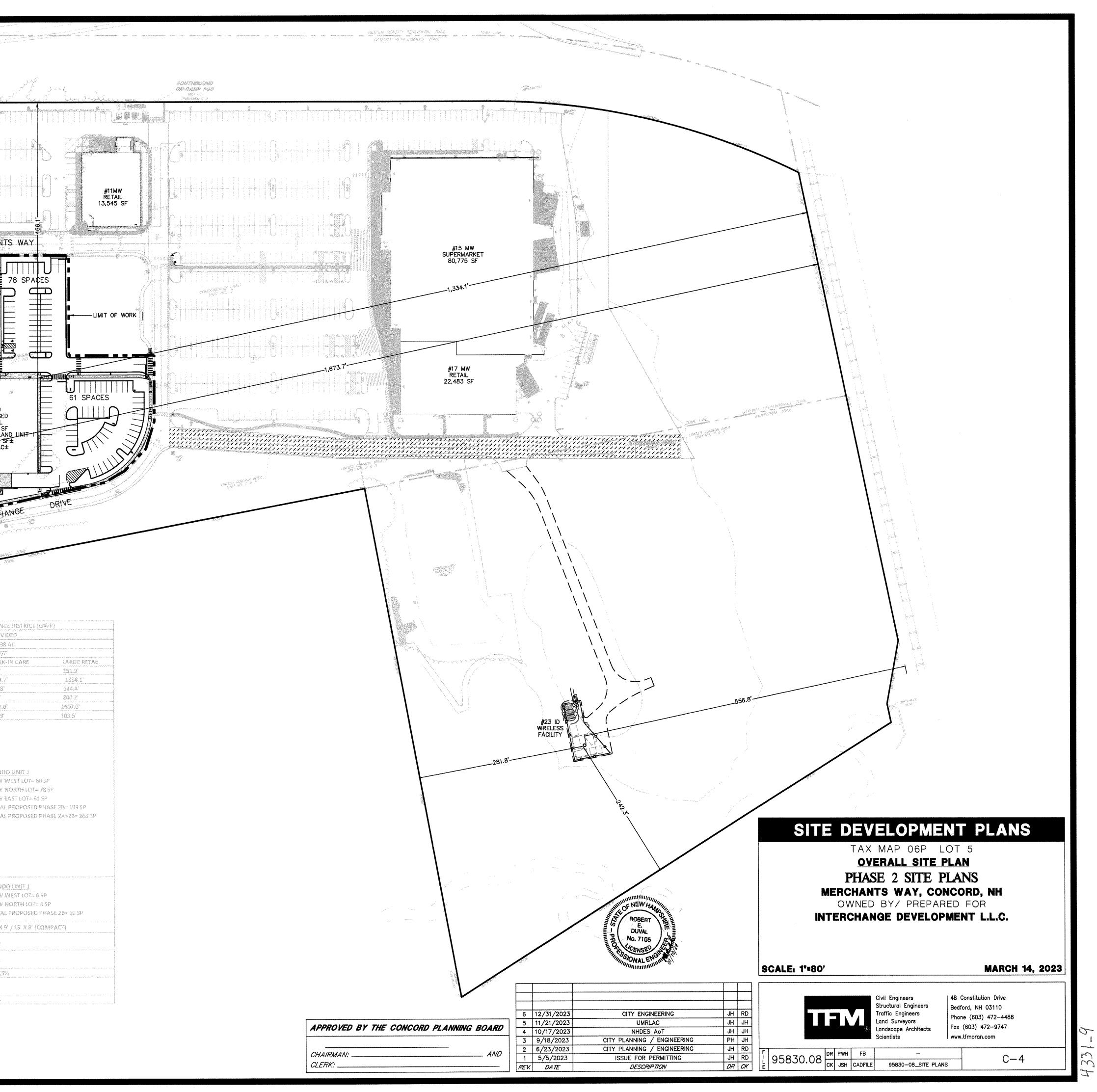
TFMoran, Inc.

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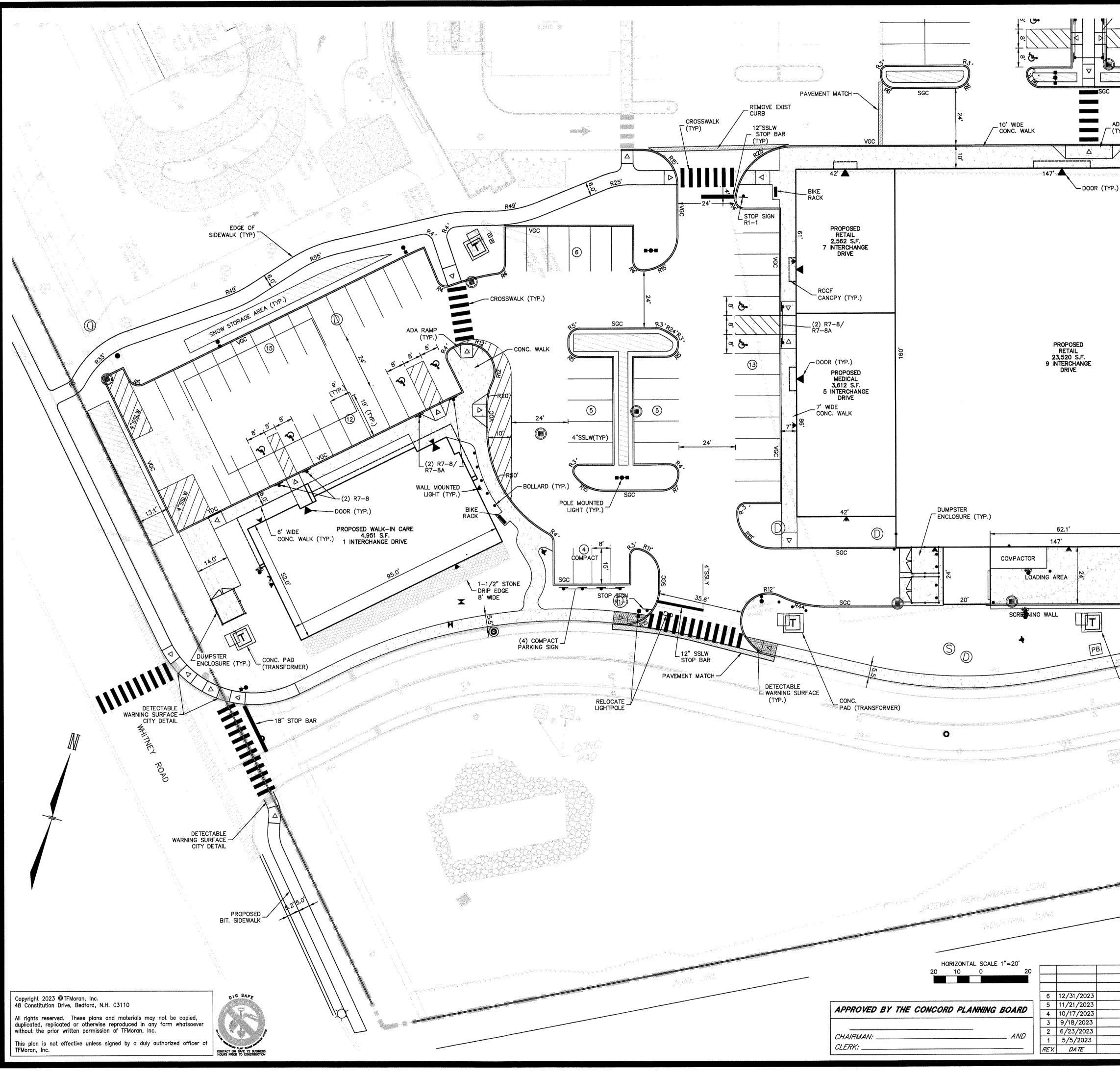
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HORIZONTAL SCALE 1"=80' 80 40 0 80



A <i>PPROVED</i>	BY	THE	CONCORD	PLANNING	BOARD



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REFERENCE PLANS

- 1. RE-SUBDIVISION PLAT LANDS OF SUSAN A. WHIYNEY AND INTERCHANGE DEVELOPMENT LLC. LOCATION, WHITNEY ROAD - CONCORD, NH - MERRIMACK COUNTY, TAX MAPS 06P LOTS 5 & 6. PREPARED BY FWS LAND SURVEYING P.L.L.C., DATED FEB. 10, 2014 AND LAST REVISED MAY 01, 2014.
- . RE-SUBDIVISION PLAT, LANDS OF BRADLEY WHITNEY AND JENNIFER HABEL, INTERCHANGE DEVELOPMENT LLC, WHITNEY ROAD, CONCORD, NH, MERRIMACK COUNTY, TAX MAP 06P LOTS 5 & 6, PREPARED BY FWS LAND SURVEYING PLLC, DATED NOVEMBER 16, 2018.
- 5. EXISTING CONDITIONS PLAT LANDS OF BRADLEY WHITNEY AND JENNIFER HABEL INTERCHANGE DEVELOPMENT LLC. LOCATION, WHITNEY ROAD – CONCORD, NH – MERRIMACK COUNTY, TAX MAP 06P LOTS 5 & 6. PREPARED BY FWS LAND SURVEYING P.L.L.C., DATED OCTOBER 19, 2020.
- CONDOMINIUM PLAT "MERCHANTS WAY CONDOMINIUM" LAND OF INTERCHANGE DEVELOPMENT LLC – LOCATION – WHITNEY ROAD – CONCORD, NH – MERRIMACK COUNTY – TAX MAP 06P LOT 5, DATED JULY 26, 2021.
- 5. INTERCHANGE DEVELOPMENT LLC SITE DEVELOPMENT PLANS TAX MAP 06P LOTS 5 & 6 MIXED USE DEVELOPMENT - WHITNEY ROAD, CONCORD, NH - OWNED BY - BREADLEY WHITNEY & JENNIFER HABEL & INTERCHANGE DEVELOPMENT L.L.C. - PREPARED FOR - INTERCHANGE DEVELOPMENT L.L.C., PREPARED BY TFMORAN, INC., DATED JUNE 17, 2019 AND LAST REVISED APRIL 20, 2021.
- 6. SITE DEVELOPMENT PLANS-TAX MAP 06P LOT 5, FAST FOOD RESTAURANT, 2 MERCHANTS WAY, CONCORD NH, OWNED BY /PREPARED FOR INTERCHANGE DEVELOPMENT L.L.C., PREPARED BY TFMORAN INC., DATED JUNE 14, 2021 AND LAST REVISED OCTOBER 6, 2021.

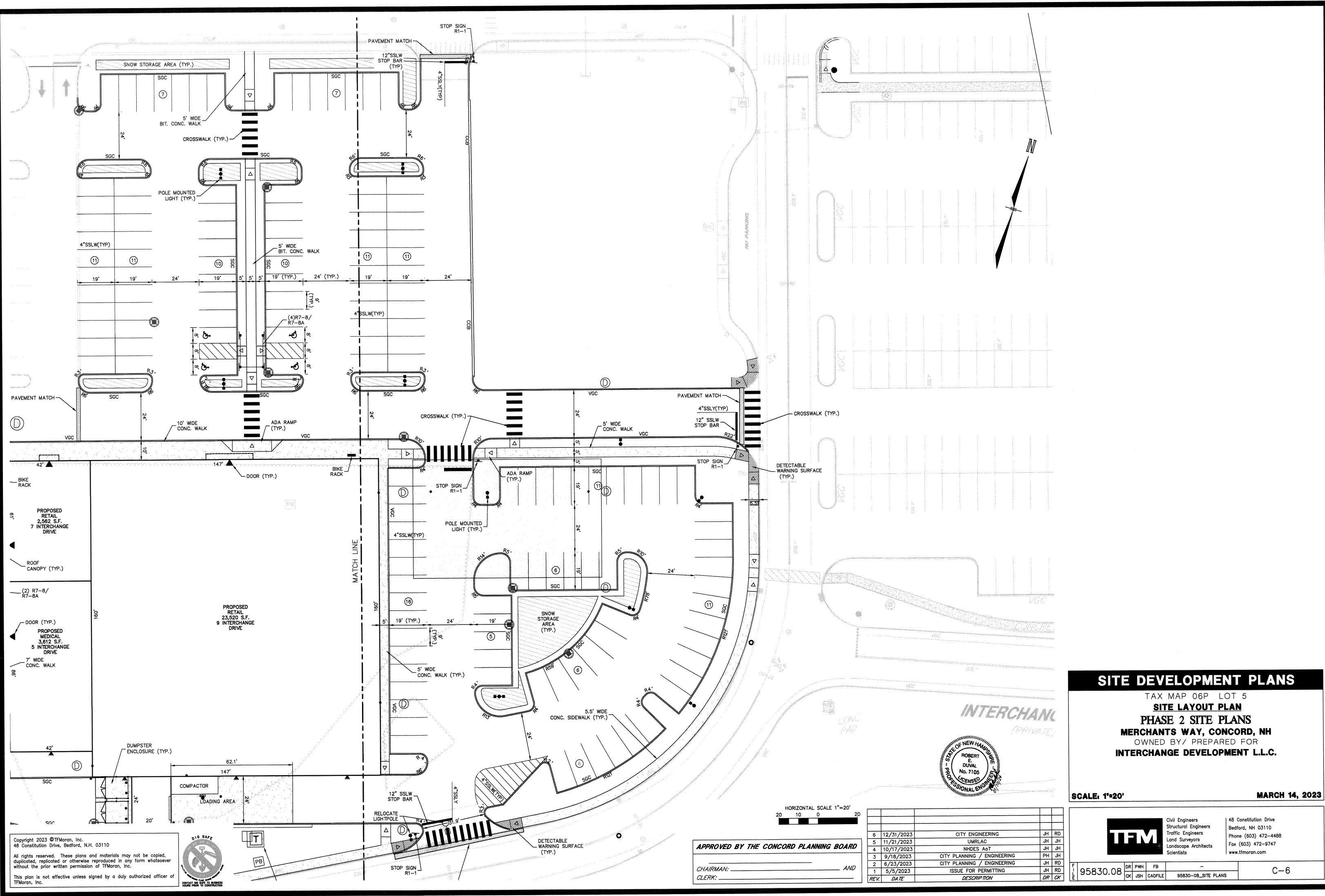
NOTES

- 1. THE PURPOSE OF THIS PLAN IS TO DEPICT A PROPOSED URGENT CARE, RETAIL, AND MEDICAL OFFICES DEVELOPMENT WITH ASSOCIATED SITE IMPROVEMENTS.
- REFER TO SHEET C-4 FOR ZONING/PARKING REQUIREMENTS
 THE PROPERTY WILL BE SERVICED BY THE FOLLOWING SERVICES:
- DRAINAGE: PRIVATE SEWER: MUNICIPAL

SEWER;	MUNICIPAI
WATER:	MUNICIPA
ELECTRIC:	UNITIL

- 4. BOUNDARY INFORMATION SHOWN HEREON IS BASED ON REFERENCE PLAN INFORMATION.
- 5. TOPOGRAPHY WAS GENERATED FROM REFERENCE PLAN INFORMATION.
- 6. WETLANDS INFORMATION DEPICTED ON THIS PLAN IS FROM REFERENCE PLAN INFORMATION.
- 7. EXAMINATION OF THE FLOOD INSURANCE RATE MAP FOR THE CITY OF CONCORD, NEW HAMPSHIRE, COMMUNITY PANEL NUMBER 33013C0337E, EFFECTIVE DATE: APRIL 18, 2010, INDICATES THAT THE SUBJECT PARCEL IS PARTIALLY LOCATED WITHIN A FLOOD HAZARD AREA. MINIMUM BUILDING FINISH FLOOR ELEVATION IS APPROXIMATELY 270 FEET.
- 8. EASEMENTS, RIGHTS, AND RESTRICTIONS SHOWN ARE THOSE WHICH IDENTIFIED BASED ON DATA USED IN CONCEPTUAL DESIGN. OTHER RIGHTS, EASEMENTS, OR RESTRICTIONS MAY EXIST WHICH DEED RESEARCH AND A TITLE EXAMINATION OF SUBJECT PARCEL(S) WOULD DETERMINE.
- 9. THE LOCATION OF ANY UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE. TFMORAN INC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. PRIOR TO ANY EXCAVATION ON SITE THE CONTRACTOR SHALL CONTACT DIG SAFE AT 811.
- 0. THIS PROPERTY IS SUBJECT TO CONDOMINIUM OWNERSHIP. REFER TO CONDOMINIUM SITE PLANS PREPARED BY FWS LAND SURVEYING P.L.L.C. FOR ADDITIONAL DETAIL.
- 11. THE FUTURE PHASES WILL BE SUBJECT TO SEPARATE SITE PLAN APPROVALS.
- 12. RETAINING WALLS EXCEEDING FOUR FEET IN HEIGHT REQUIRE A BUILDING PERMIT FROM CITY CODE ENFORCEMENT.
- 13. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CONCORD'S CONSTRUCTION STANDARDS AND DETAILS (LATEST ADDITION), AND CITY STANDARDS SHALL TAKE PRECEDENCE IN CASE OF ANY DETAILS OR PLANS IN CONFLICT.
- 14. ALL UTILITIES SHALL BE INSTALLED UNDERGROUND IN ACCORDANCE WITH SECTION 25.02(1) OF THE SITE PLAN REGULATIONS.
- 15. PER SITE PLAN REGULATION 12.09, UPON COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS TOO THE ENGINEERING SERVICES DIVISION PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- 16. THE CONTRACTOR SHALL SET UP A PRECONSTRUCTION MEETING WITH THE ENGINEERING SERVICES DIVISION TO DISCUSS CONSTRUCTION REQUIREMENTS, SITE INSPECTIONS, ASSOCIATED FEES, SCHEDULES, ETC.
- 17. THE CONTRACTOR SHALL OBTAIN UTILITY CONNECTION PERMITS FROM THE ENGINEERING SERVICES DIVISION FOR THE PROPOSED WATER SERVICE, SEWER SERVICE, AND STORM DRAIN CONNECTION(S). INDIVIDUAL PERMITS WILL BE REQUIRED FOR EACH CONNECTION.
- 18. THE CONTRACTOR SHALL OBTAIN A DRIVEWAY PERMIT FROM THE ENGINEERING SERVICES DIVISION FOR THE PROPOSED DRIVEWAY.
- 19. A WAIVER WAS GRANTED ON JULY 19, 2023 FROM THE SITE PLAN REGULATIONS, SECTION 19 ACCESS AND DRIVEWAY STANDARDS, TO ALLOW FOR A 36.2 FT WIDE DRIVEWAY AT 1 INTERCHANGE DRIVE AND A 31.9' WIDE DRIVEWAY AT 9 INTERCHANGE DRIVE, WHERE A MAXIMUM OF 28 FT FOR A TWO-WAY DRIVEWAY IS ALLOWED.
- 20. A WAIVER WAS GRANTED ON JULY 19, 2023 FROM THE SITE PLAN REGULATIONS, SECTION 22.07(2) -STORM WATER RECHARGE, TO PROVIDE 18 INCHES OF SEPARATION TO THE SEASONAL HIGH-WATER TABLE, WHERE 4 FT IS REQUIRED.

	INT	Å	SITE DEVELOPME	NT PLANS
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B No. 7105 CENSED HILLINGS/ONALENGING			SCALE: 1"=20'	MARCH 14, 2023
CITY ENGINEERING UMRLAC	JH JH		Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects	48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747
NHDES AoT CITY PLANNING / ENGINEERING	JH PH		Scientists	www.tfmoran.com

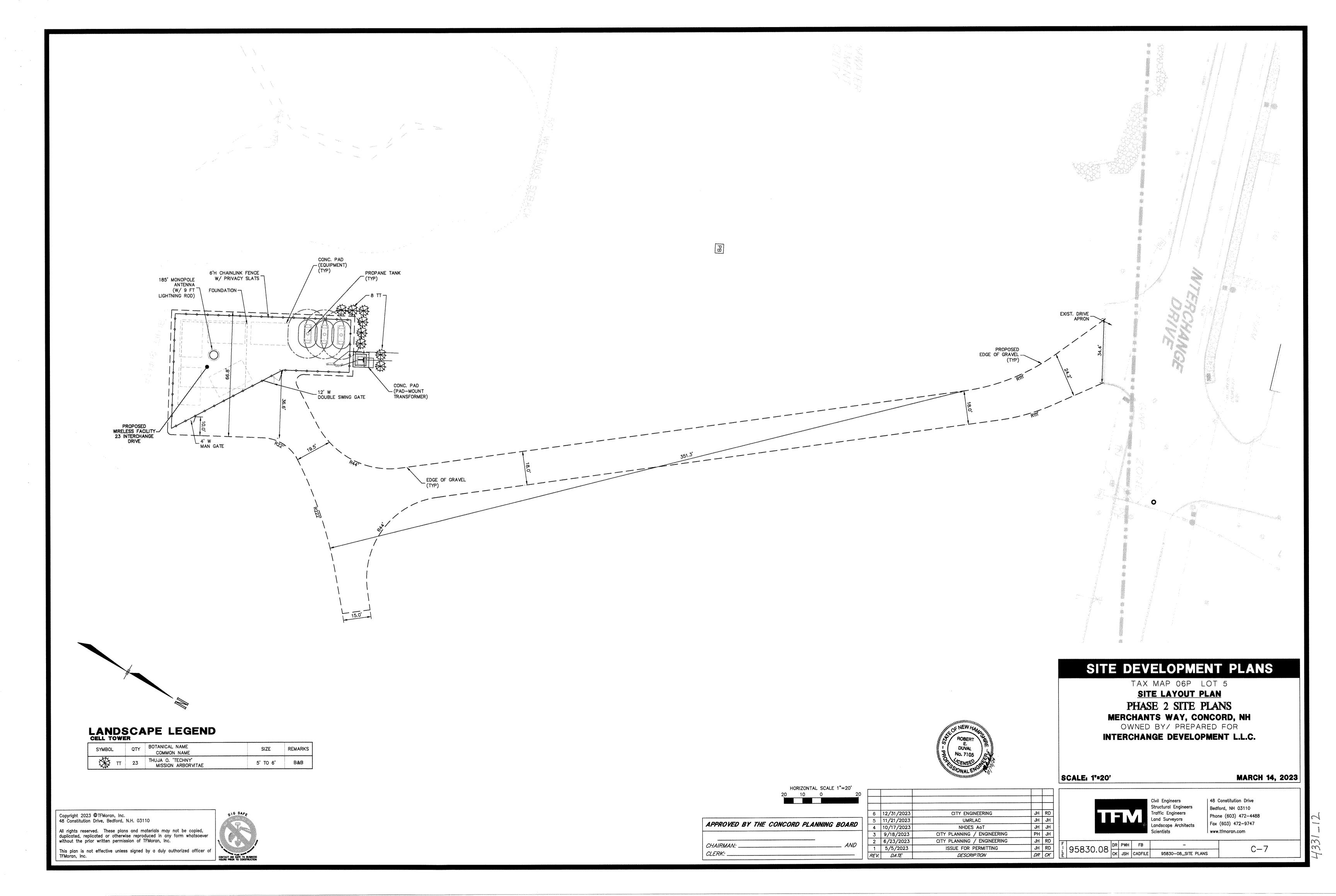


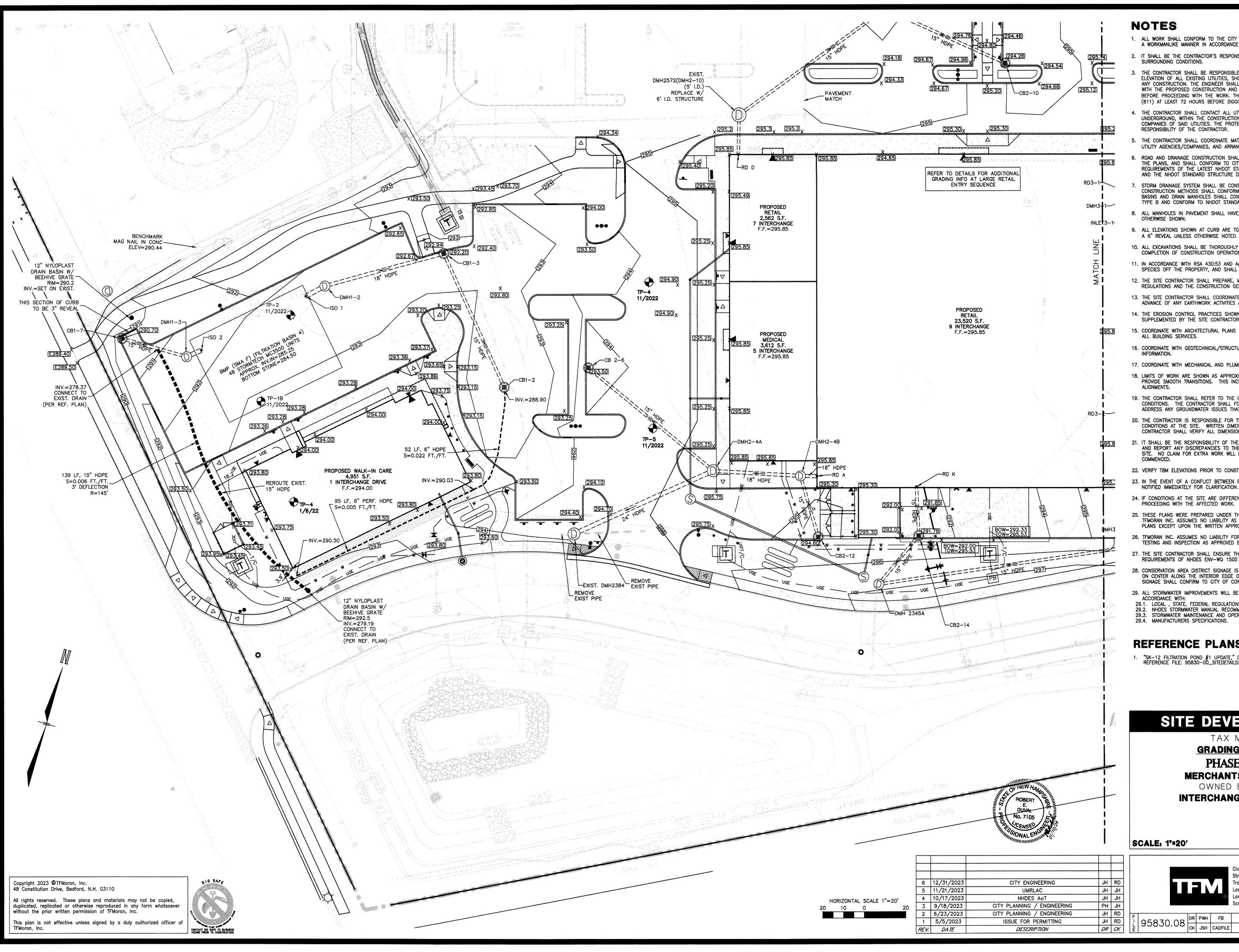
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NOTES

- 1. ALL WORK SHALL CONFORM TO THE CITY OF CONCORD CONSTRUCTION STANDARDS, AND SHALL BE BUILT IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- 2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE SITE AND ALL SURROUNDING CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS, PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION BE AGREED TO BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT "DIGSAFE" (811) AT LEAST 72 HOURS BEFORE DIGGING.
- 4. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA AND SHALL COORDINATE AS NECESSARY WITH THE UTILITY COMPANIES OF SAID UTILITIES. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 5. THE CONTRACTOR SHALL COORDINATE MATERIALS AND INSTALLATION SPECIFICATIONS WITH THE INDIVIDUAL UTILITY AGENCIES/COMPANIES, AND ARRANGE FOR ALL INSPECTIONS.
- ROAD AND DRAINAGE CONSTRUCTION SHALL CONFORM TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS, AND SHALL CONFORM TO CITY OF CONCORD CONSTRUCTION STANDARDS AND THE REQUIREMENTS OF THE LATEST NHOOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION AND THE NHOOT STANDARD STRUCTURE DRAWINGS UNLESS OTHERWISE NOTED.
- 7. STORM DRAINAGE SYSTEM SHALL BE CONSTRUCTED TO LINE AND GRADE AS SHOWN ON THE PLANS. CONSTRUCTION METHODS SHALL CONFORM TO NHDOT STANDARD SPECIFICATIONS, SECTION 603. CATCH BASINS AND DRAIN MANHOLES SHALL CONFORM TO SECTION 604. ALL CATCH BASIN GRATES SHALL BE TYPE B AND CONFORM TO NHOOT STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
- 8. ALL MANHOLES IN PAVEMENT SHALL HAVE RIMS SET TO FINISH GRADE REGARDLESS OF ANY ELEVATIONS OTHERWISE SHOWN.
- 9. ALL ELEVATIONS SHOWN AT CURB ARE TO THE BOTTOM OF CURB UNLESS OTHERWISE NOTED. CURBS HAVE A 6" REVEAL UNLESS OTHERWISE NOTED.
- 10. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
- 11. IN ACCORDANCE WITH RSA 430:53 AND Agr 3800, THE CONTRACTOR SHALL NOT TRANSPORT INVASIVE SPECIES OFF THE PROPERTY, AND SHALL DISPOSE OF INVASIVE SPECIES ON--SITE IN A LEGAL MANNER.
- 12. THE SITE CONTRACTOR SHALL PREPARE, MAINTAIN, AND EXECUTE A S.W.P.P.P. IN ACCORDANCE WITH EPA REGULATIONS AND THE CONSTRUCTION GENERAL PERMIT.
- 13. THE SITE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO SUBMIT AN ENOI AT LEAST 14 DAYS IN ADVANCE OF ANY EARTHWORK ACTIVITIES AT THE SITE.
- 14. THE EROSION CONTROL PRACTICES SHOWN ON THESE PLANS ARE ILLUSTRATIVE ONLY AND SHALL BE SUPPLEMENTED BY THE SITE CONTRACTOR AS NEEDED.
- 15. COORDINATE WITH ARCHITECTURAL PLANS FOR DETAILED GRADING AT BUILDING, AND SIZE AND LOCATION OF ALL BUILDING SERVICES.
- 16. COORDINATE WITH GEOTECHNICAL/STRUCTURAL PLANS FOR SITE PREPARATION AND OTHER BUILDING INFORMATION.
- 17. COORDINATE WITH MECHANICAL AND PLUMBING PLANS FOR ROOF DRAIN INFORMATION.
- 18. LIMITS OF WORK ARE SHOWN AS APPROXIMATE. THE CONTRACTOR SHALL COORDINATE ALL WORK TO PROVIDE SMOOTH TRANSITIONS. THIS INCLUDES GRADING, PAVEMENT, CURBING, SIDEWALKS AND ALIGNMENTS.
- 19. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR INFORMATION ABOUT GROUNDWATER CONDITIONS. THE CONTRACTOR SHALL FOLLOW THE GEOTECHNICAL ENGINEERS RECOMMENDED METHODS TO ADDRESS ANY GROUNDWATER ISSUES THAT ARE FOUND ON SITE.
- 20. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR THE CONDITIONS AT THE SITE. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE ENGINEER.
- 21. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK THE ACCURACY OF THE TOPOGRAPHY AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO ANY EARTHWORK BEING PERFORMED ON THE SITE. NO CLAIM FOR EXTRA WORK WILL BE CONSIDERED FOR PAYMENT AFTER EARTHWORK HAS COMMENCED.
- 22. VERIFY TBM ELEVATIONS PRIOR TO CONSTRUCTION.
- 23. IN THE EVENT OF A CONFLICT BETWEEN PLANS, SPECIFICATIONS, AND DETAILS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
- 24. IF CONDITIONS AT THE SITE ARE DIFFERENT THAN SHOWN THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
- 25. THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. TFMORAN INC. ASSUMES NO LIABILITY AS A RESULT OF ANY CHANGES OR NON-CONFORMANCE WITH THESE PLANS EXCEPT UPON THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
- TFMORAN INC. ASSUMES NO LIABILITY FOR WORK PERFORMED WITHOUT AN ACCEPTABLE PROGRAM OF TESTING AND INSPECTION AS APPROVED BY THE ENGINEER OF RECORD.
- 27. THE SITE CONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF NHDES ENV-WQ 1500 AS APPLICABLE.
- CONSERVATION AREA DISTRICT SIGNAGE IS REQUIRED TO BE PLACED ON EXISTING VEGETATATION AT 100 FT ON CENTER ALONG THE INTERIOR EDGE OF THE BLUFF BUFFER AROUND THE PERIMETER OF THE PROPERTY. SIGNAGE SHALL CONFIRM TO CITY OF CONCORD CONSERVATION COMMISSION STANDARDS.
- 29. ALL STORMWATER IMPROVEMENTS WILL BE MAINTAINED BY THE PROPERTY OWNER IN PERPETUITY IN ACCORDANCE WITH:
- 29.1. LOCAL , STATE, FEDERAL REGULATIONS 29.2. NHDES STORMWATER MANUAL RECOMMENDATIONS
- 29.3. STORMWATER MAINTENANCE AND OPERATIONS PLAN 29.4. MANUFACTURERS SPECIFICATIONS.

REFERENCE PLANS

"SK-12 FILTRATION POND #1 UPDATE," DATED JUNE 10, 2021, PREPARED BY TFMORAN, INC. REFERENCE FILE: 95830-00_SITEDETAILS: SK-12

SITE DEVELOPMENT PLANS

TAX MAP 06P LOT 5 **GRADING & DRAINAGE PLAN** PHASE 2 SITE PLANS MERCHANTS WAY, CONCORD, NH OWNED BY/ PREPARED FOR **INTERCHANGE DEVELOPMENT L.L.C.**

SCALE: 1"=20'

MARCH 14, 2023



DR PWH FB

Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists

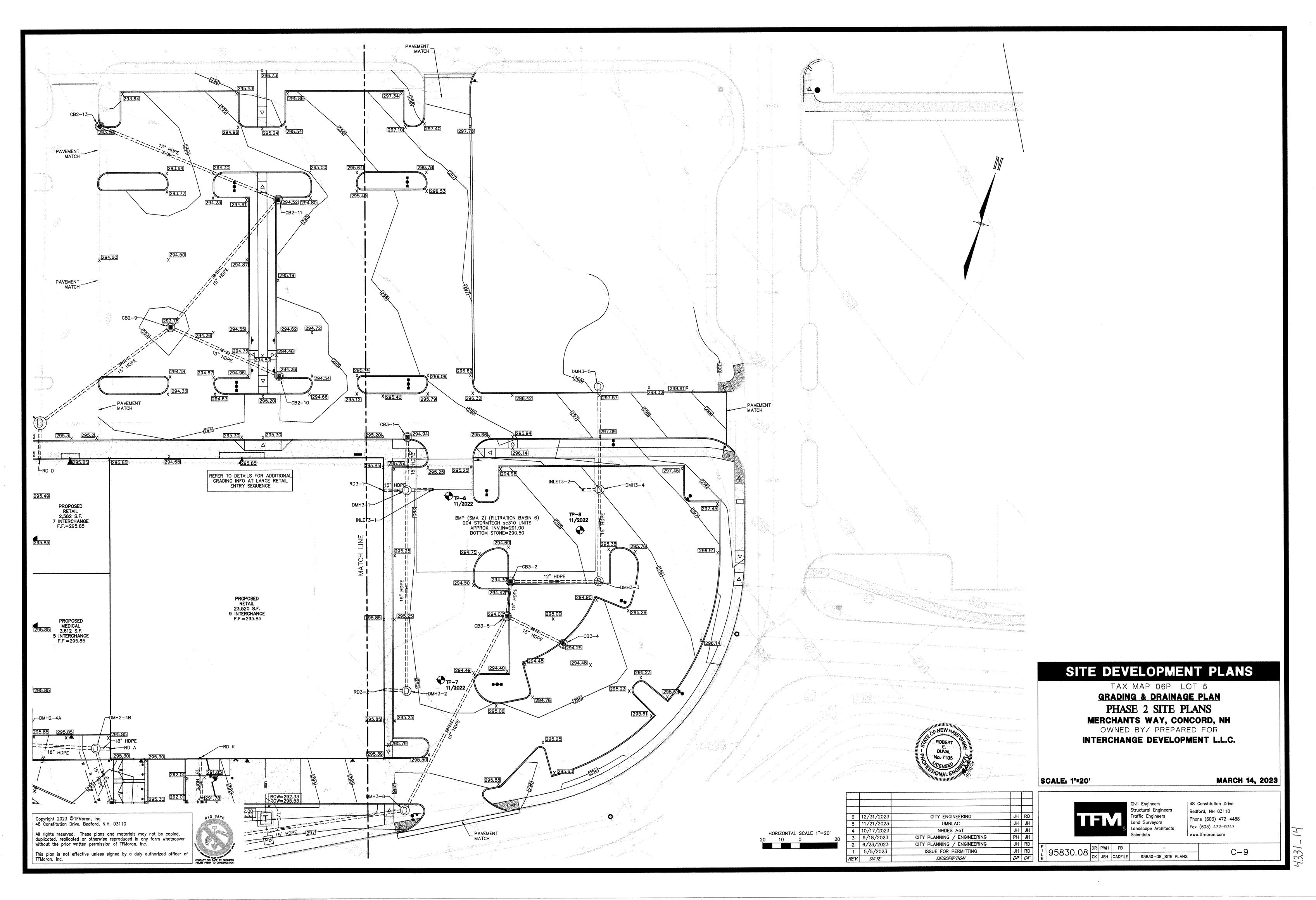
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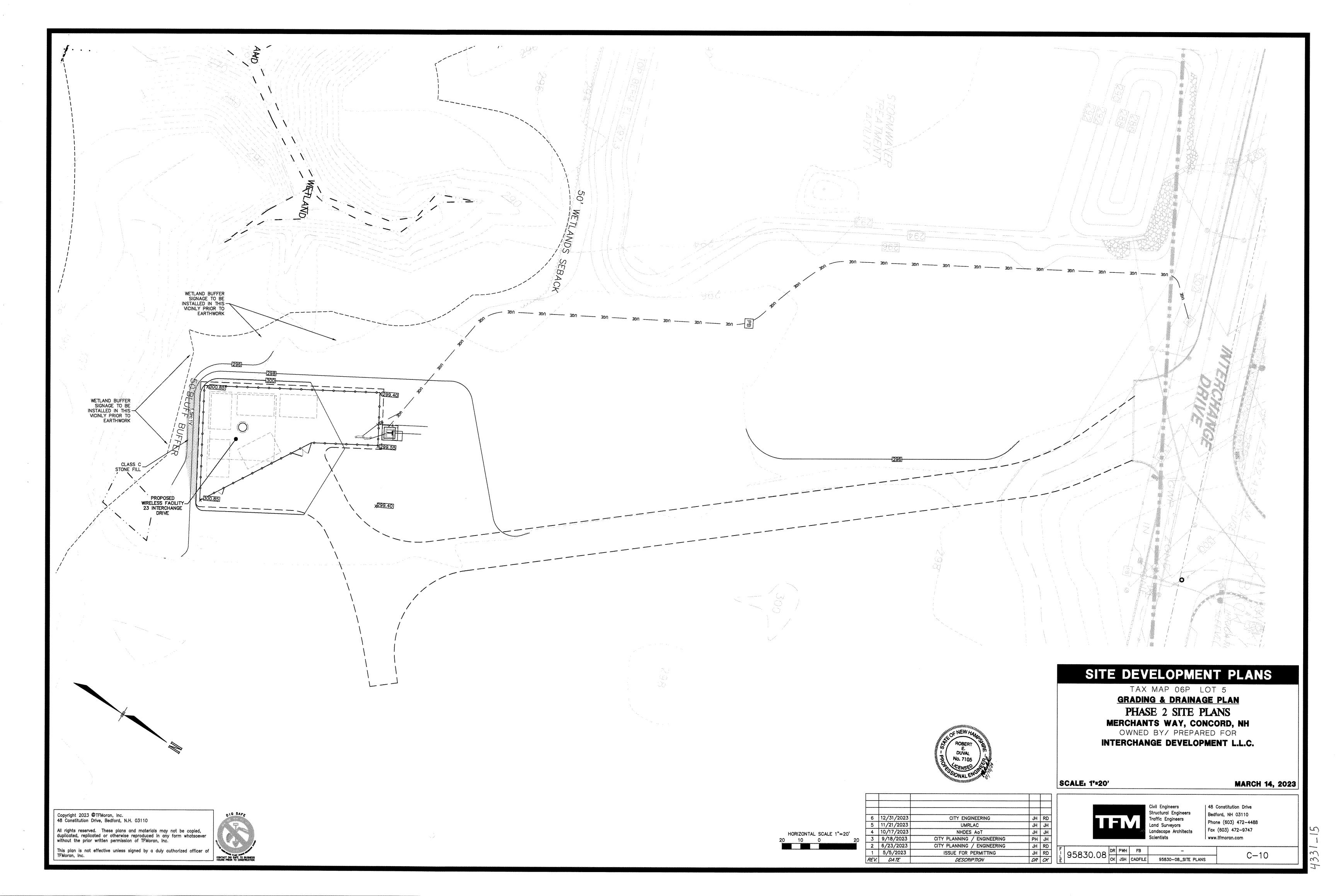
Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com

| 48 Constitution Drive

Bedford, NH 03110

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Structure Table				
Structure Name	Structure Details			
CB 2-6	RIM = 293.50 Pipe - (103) INV OUT = 289.343			
CB1-2	RIM = 292.50 Pipe - (61) INV OUT = 288.098			
CB1-3	RIM = 292.20 Pipe - (61) INV IN = 287.660 Pipe - (94) INV OUT = 287.560			
CB1-7	RIM = 290.70 Pipe - (95) INV OUT = 285.753			
DMH1-2	RIM = 292.27 Pipe - (94) INV IN = 287.055 Pipe - (105) INV OUT = 285.350			
DMH1-3	RIM = 291.48 Pipe - (95) INV IN = 285.430 Pipe - (106) INV OUT = 285.327			
DMH2-4A	RIM = 295.65 Pipe - (103) INV IN = 288.906 Pipe - (102) INV OUT = 288.799			
EXIST. DMH2384	RIM = 294.06 Pipe - (102) INV IN = 288.425			
ISO 1	RIM = 292.22 Pipe - (105) INV IN = 285.250			
ISO 2	RIM = 291.65 Pipe - (106) INV IN = 285.250			

Structure Table Structure Name Structure Details RIM = 293.78 Pipe - (69) INV IN = 289.450 Pipe - (72) INV IN = 287.77 Pipe - (72) INV OUT = 287.77 Pipe - (72) INV OUT = 287.77 Pipe - (72) INV OUT = 287.77 CB2-10 Pipe - (72) INV OUT = 287.77 CB2-10 Pipe - (72) INV OUT = 288.33 CB2-11 Pipe - (69) INV OUT = 288.33 Pipe - (72) INV OUT = 288.33 Pipe - (72) INV OUT = 288.33 CB2-12 Pipe - (166) INV OUT = 288.33 CB2-13 Pipe - (166) INV OUT = 288.33 CB2-14 Pipe - (167) INV OUT = 288.81 Pipe - (167) INV OUT = 288.81 Pipe - (112) (2) INV OUT = 288.81 Pipe - (112) (2) INV OUT = 288.81 CB3-1 Pipe - (153) INV OUT = 288.81 Pipe - (153) INV OUT = 291.41 RIM = 294.30 CB3-2 Pipe - (153) INV OUT = 289.91 Pipe - (153) INV OUT = 289.91 Pipe - (158) INV OUT = 289.91 CB3-4 Pipe - (158) INV IN = 289.21 Pipe - (159) INV OUT = 289.19 Pipe - (153) INV IN = 289.21 Pipe - (159) INV IN = 287.45 Pipe - (150) INV IN = 287.45 DMH 2-10	
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CB3-2Pipe - (151)INV OUT = 291.84 Pipe - (163)CB3-4RIM = 294.25 Pipe - (158)RIM = 294.25 Pipe - (158)CB3-5Pipe - (158)INV OUT = 289.9CB3-5Pipe - (158)INV IN = 289.21 	52
CB3-4Pipe - (158)INV OUT = 289.9RIM = 294.00RIM = 294.00Pipe - (158)INV IN = 289.21Pipe - (163)INV IN = 289.58Pipe - (163)INV OUT = 289.1DMH 2-10RIM = 295.25Pipe - (159)INV OUT = 287.300Pipe - (121)INV IN = 287.45DMH 2345ARIM = 296.77DMH 2345APipe - (112) (2)Pipe - (120)INV IN = 288.4Pipe - (160)INV IN = 287.16RIM = 295.44Pipe - (59)Pipe - (59)INV IN = 289.38Pipe - (59)INV OUT = 289.38<	57 08
CB3-5Pipe - (158)INV IN = 289.21Pipe - (163)INV IN = 289.58Pipe - (159)INV OUT = 289.1DMH 2-10RIM = 295.25Pipe - (75)INV IN = 287.30Pipe - (121)INV IN = 287.45DMH 2345ARIM = 296.77Pipe - (112)(2)INV IN = 287.16Pipe - (160)INV IN = 287.16Pipe - (160)INV IN = 289.38Pipe - (160)INV IN = 289.38Pipe - (166)INV IN = 289.38Pipe - (59)INV IN = 280.31Pipe - (59)INV IN = 285.21	42
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$\begin{array}{c c} RIM &= 295.26\\ DMH3-2 & Pipe - (155) & INV & IN &= 291.91\\ Pipe - (156) & INV & OUT &= 291.8 \end{array}$	
RIM = 295.15 DMH3-3 Pipe - (151) INV IN = 291.62 Pipe - (152) INV OUT = 291.5	6 18
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	7
RIM = 298.02 DMH3-5 Pipe - (149) INV OUT = 293.0	05
RIM = 296.50 DMH3-6 Pipe - (159) INV IN = 287.96 Pipe - (160) INV OUT = 287.8	
RIM = 295.00 Pipe - (154) INV IN = 290.99)1

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- 91.301 91.270 91.332 291.000 _____
- 91.912 291.847
- _____ 91.626 291.518
- _____ 91.578 91.227 291.146
- 293.005 _____ 87.964 287.864
- *** 90.991

	Structure Table
Structure Name	Structure Details
INLET3-2	RIM = 295.75 Pipe - (150) INV IN = 291.054
RD A	RIM = 295.35 Pipe - (59) INV OUT = 289.500
RD D	RIM = 295.85 Pipe - (121) INV OUT = 288.790
RD K	RIM = 292.68 Pipe - (112) INV OUT = 289.052
RD3-1	RIM = 295.85 Pipe - (157) INV OUT = 291.490
RD3-2	RIM = 295.85 Pipe - (155) INV OUT = 291.991

	Pipe Table		
Pipe Name	Size	Length	Slope
Pipe - (61)	15"Corrugated HDPE Pipe	70 L.F.	0.62%
Pipe - (94)	18"	59 L.F.	0.85%
Pipe - (95)	15"	32 L.F.	1.00%
Pipe - (102)	24"Corrugated HDPE Pipe	74 L.F.	0.51%
Pipe - (103)	15"Corrugated HDPE Pipe	78 L.F.	0.56%
Pipe - (105)	24"Corrugated HDPE Pipe	10 L.F.	0.96%
Pipe - (106)	24"Corrugated HDPE Pipe	8 L.F.	1.00%

	Pipe Table				Pipe Table		
Pipe Name	Size	Length	Slope	Pipe Name	Size	Length	Slope
Pipe - (59)	18"Corrugated HDPE Pipe	8 L.F.	1.43%	Pipe - (59) (1)	18"Corrugated HDPE Pipe	40 L.F.	1.19%
Pipe - (69)	15"Corrugated HDPE Pipe	64 L.F.	0.72%	Pipe - (166)	15"Corrugated HDPE Pipe	30 L.F.	1.12%
Pipe - (72)	15"Corrugated HDPE Pipe	89 L.F.	0.51%	Pipe - (167)	15"	104 L.F.	0.50%
Pipe - (75)	15"Corrugated HDPE Pipe	87 L.F.	0.54%				
Pipe - (112)	15"Corrugated HDPE Pipe	23 L.F.	1.00%				
Pipe - (121)	15"Corrugated HDPE Pipe	19 L.F.	7.01%				
Pipe - (149)	15"Corrugated HDPE Pipe	55 L.F.	2.60%				
Pipe - (150)	15"Corrugated HDPE Pipe	9 L.F.	1.03%				
Pipe - (151)	12"Corrugated HDPE Pipe	47 L.F.	0.49%				
Pipe - (152)	15"Corrugated HDPE Pipe	49 L.F.	0.60%				
Pipe — (153)	15"Corrugated HDPE Pipe	28 L.F.	0.57%				
Pipe - (154)	15"Corrugated HDPE Pipe	14 L.F.	0.06%				
Pipe — (155)	15"Corrugated HDPE Pipe	12 L.F.	0.66%				
Pipe - (156)	15"Corrugated HDPE Pipe	107 L.F.	0.54%				
Pipe - (157)	15"Corrugated HDPE Pipe	13 L.F.	1.26%				
Pipe — (158)	15"Corrugated HDPE Pipe	34 L.F.	2.15%				
Pipe - (159)	15"Corrugated HDPE Pipe	117 L.F.	0.99%				
Pipe - (160)	15"Corrugated HDPE Pipe	130 L.F.	0.54%				
Pipe - (163)	15"Corrugated HDPE Pipe	19 L.F.	4.44%				
Pipe - (112) (2)	15"Corrugated HDPE Pipe	30 L.F.	0.50%				

NTREETERS TABLE

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		1999, QV	14 M 14	INV. OVA	PIPE DIA	COVER IN	COVER (M)
CB 1+2				288.1			
091-3	3.9.7. S	<i>187</i> on		287.56	1.25/1.5	\$ 29	3.14
OMH1-2	292.27	287.06		285.35		3.7%	3. Z.
(3)(6)(3)-3	291.48	285,43			an a		
CS £-7	29677			285.75	1.25		8. Ŷ
WDB1	290.2	EXIST.		EXIST.			
CB2-6	293.5			289.34	1.25		2.91.
00442-44		288,91	288.8%	788.8	3. 1. S. 1. S.		\$
044H2-48	295,44	290.30		289.39	1.25/3.5	3,88	4.59
EXIST. OMH 2384	294.06	288.43		285.74	2/2.5	3.63	S.S.S
(B2.12	7.94.5			290.65	Sec. Level		2.7
(82-13					3.25		
032-11	296.52	788.33		288.23		4,94	5.94
(82-9	293.78	239 45	282.22	267.27	X.Z.S	3.08	
(182-10	294,28			289.93	1.25		
EXIST. 0MH2572 (0N4H2-10)	285.25		287.45	287.36	and the second	and the second s	
CB3-1	294.94			291.45			2.23
()N/HE3- 1.	282.22	232.3	201.27	291		2.69	2. 19 Kr
①私行代32	295.26	REL CR		291.85	and a strength	in a star and a star a star and a	
00043-4	295	293.58	$\sum_{j=1}^{n-1}\sum_{\substack{j=1,\dots,n\\ j=1,\dots,n}}\sum_{\substack{j=1,\dots,n\\ j=1,\dots,n}}\sum_{\substack{j=1,\dots,n}}\sum_{\substack{j=1,\dots,n\\ j=1,\dots,n}}\sum_{\substack{j=1,\dots,n\\ j=1,\dots,n}}\sum_{\substack{j=1,\dots,n\\ j=1,\dots,n}}\sum_{\substack{j=1,\dots,n\\ j=1,\dots,n}}\sum_{\substack{j=1,\dots,n\\ j=1,\dots,n}}\sum_{\substack{j=1,\dots,n}}\sum_{j=1,\dots,$	291.15			
0\$448-5	298			$\sum_{\substack{i=1,\dots,n\\ i\neq j}}^{i+1}\sum_{\substack{i=1,\dots,n\\ i\neq j}}^{i+1}\sum_{i=1,\dots,n\\ i\neq$	2.25		
DAAH3-3	295.15	292.63		291.52	1.25	2.27	2.38
CB3-2	234,3	293.85		290.41	al and a second s		
083-4	294.8			789.94	1.25		
	704	289.48	289.22	229.32	1.25	3.37	3.63
DAAH3-6	236 5	287.98		287.86	X . 235	7.29	7,39
OBAH2345A	296.72	288.68	287.17	exist.	1.25	6.94	
	291.78	788.67		288,73	and the second second		2.2

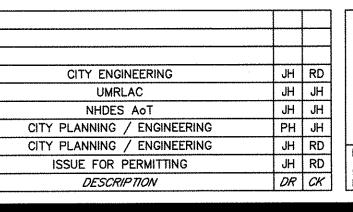
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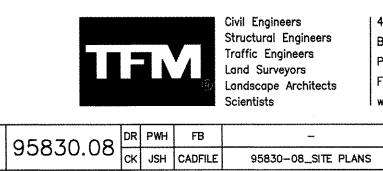
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MARCH 14, 2023

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ROBERT E. DUVAL lo. 7105



Civil Engineers Structural Engineers Traffic Engineers Landscape Architects Scientists

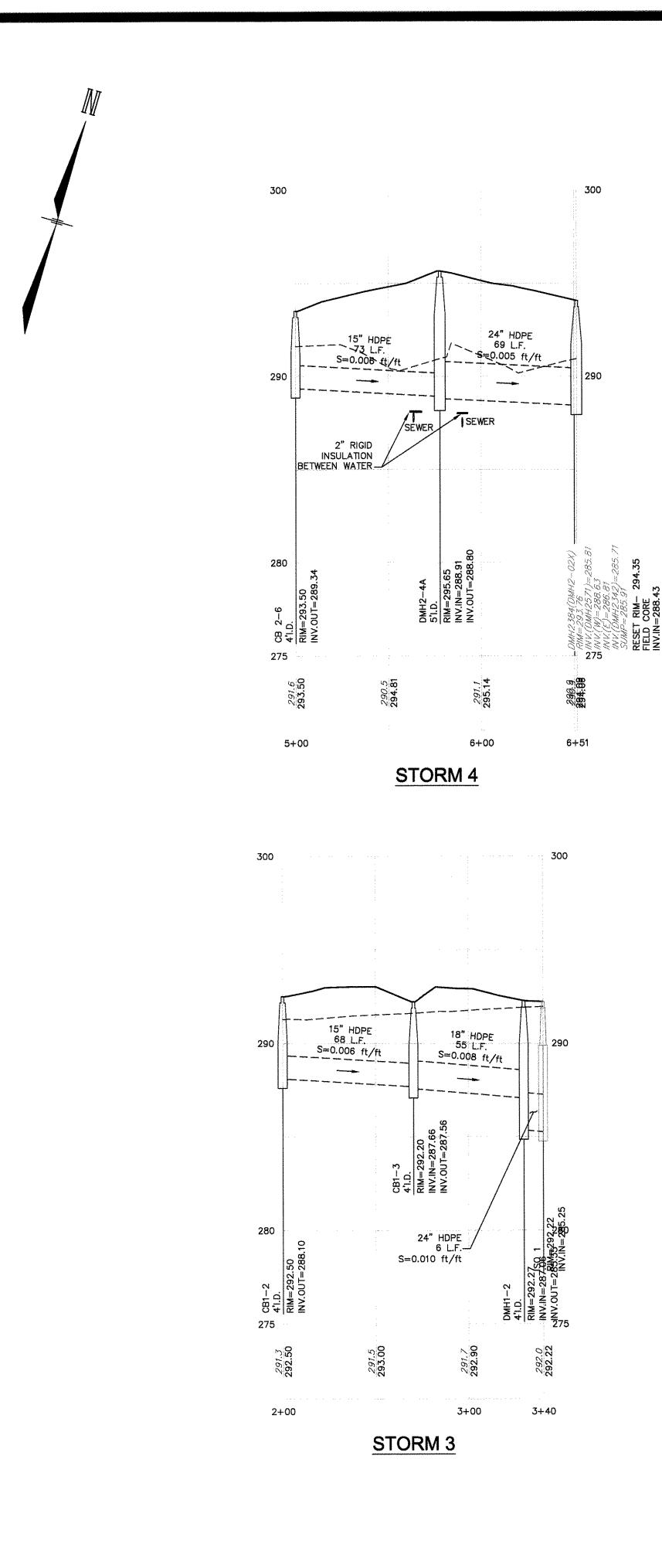
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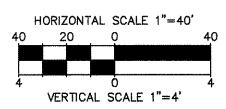
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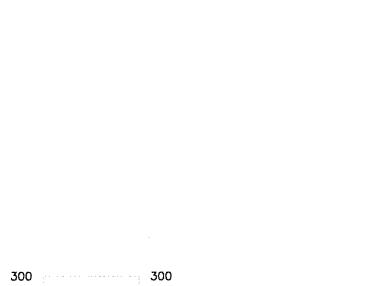
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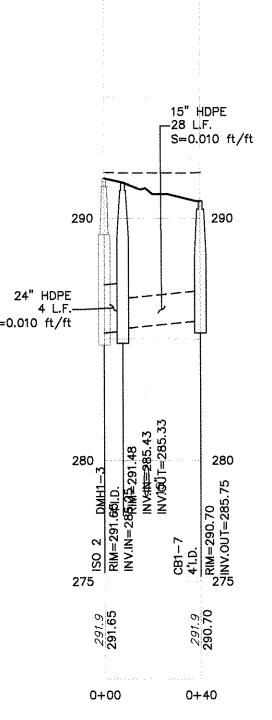
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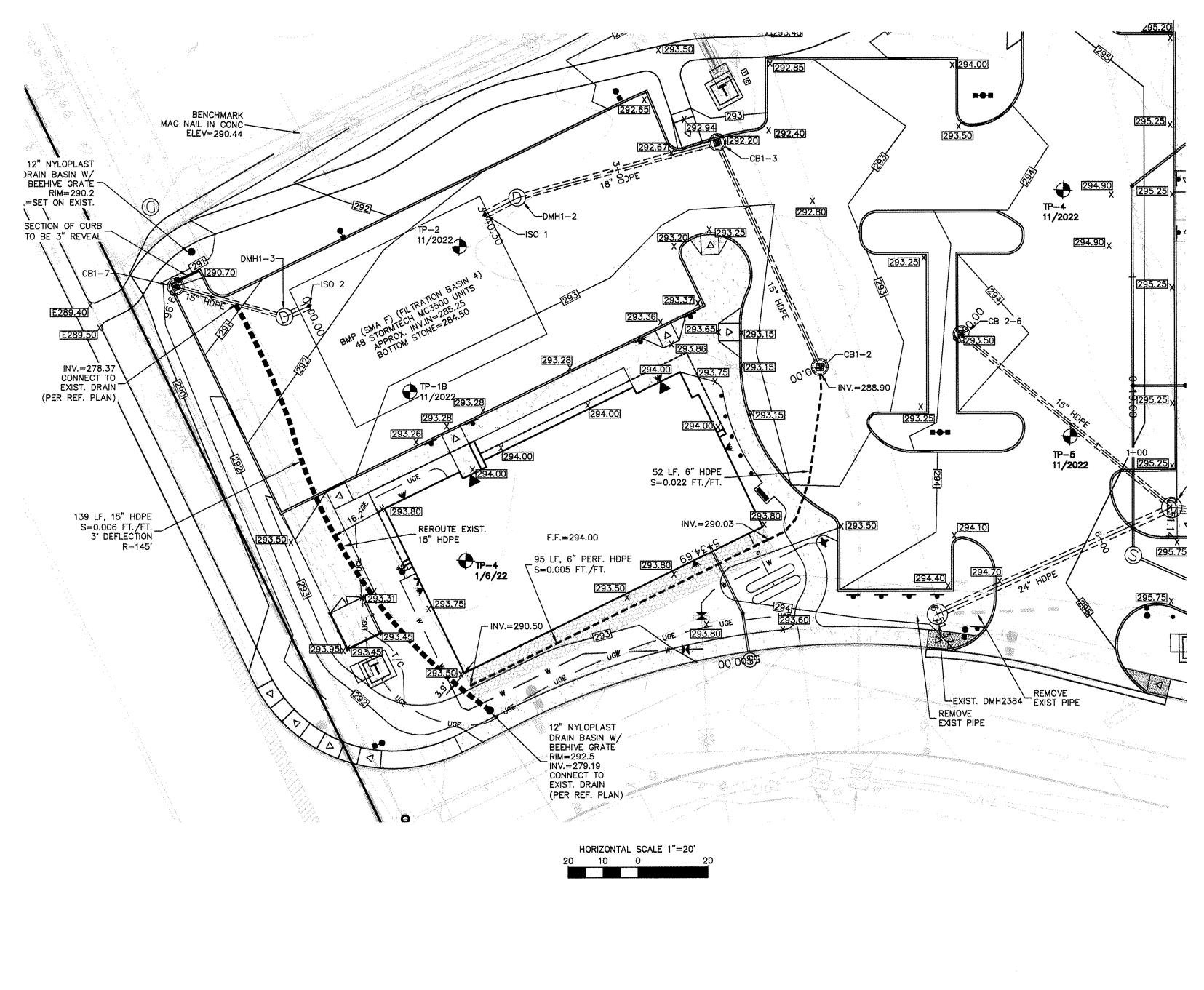




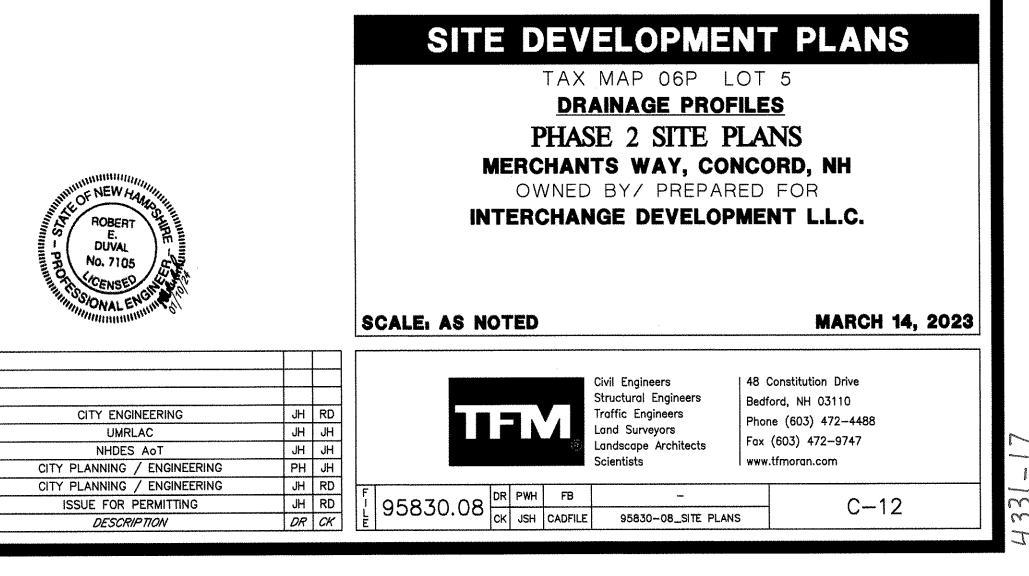


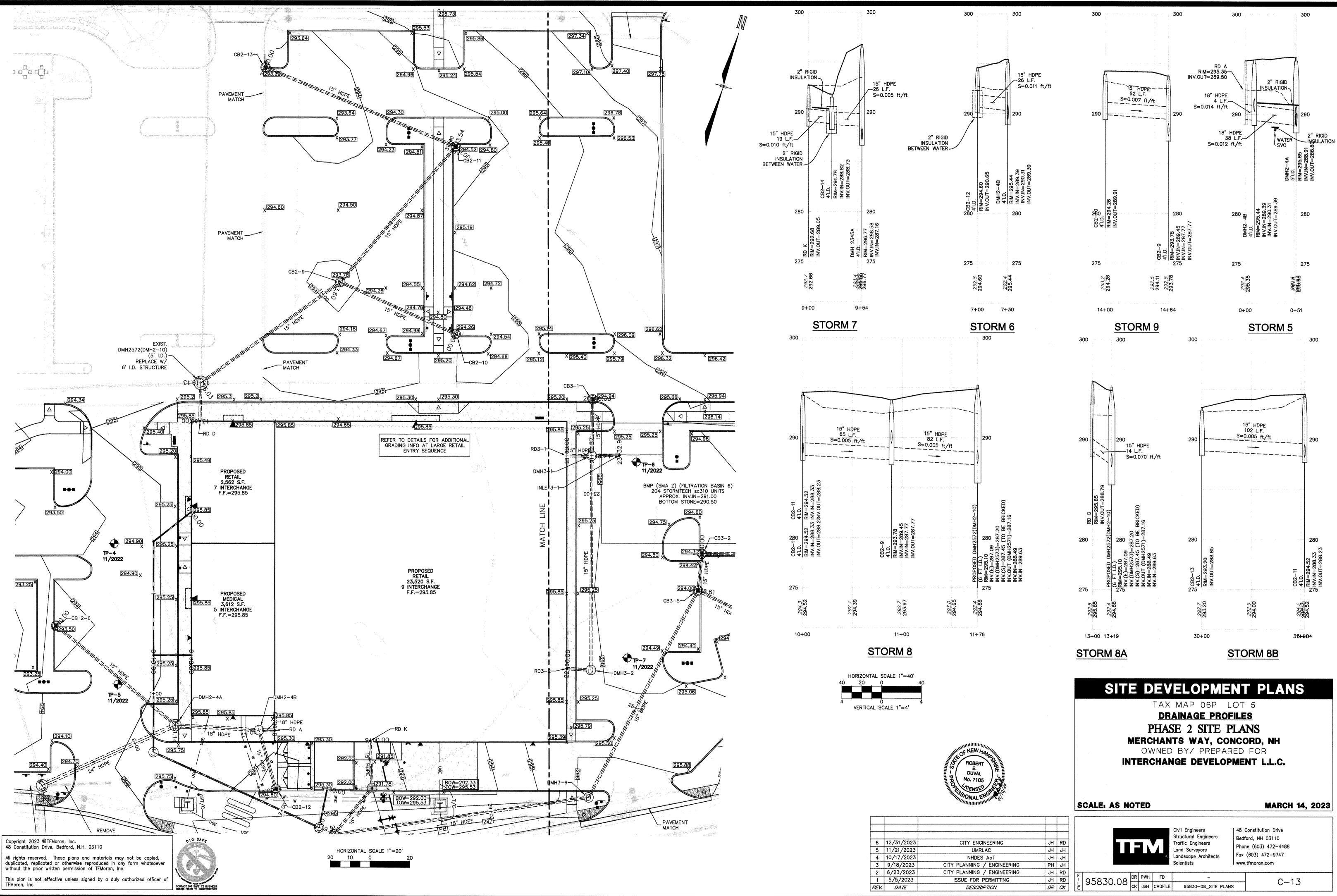


STORM 1



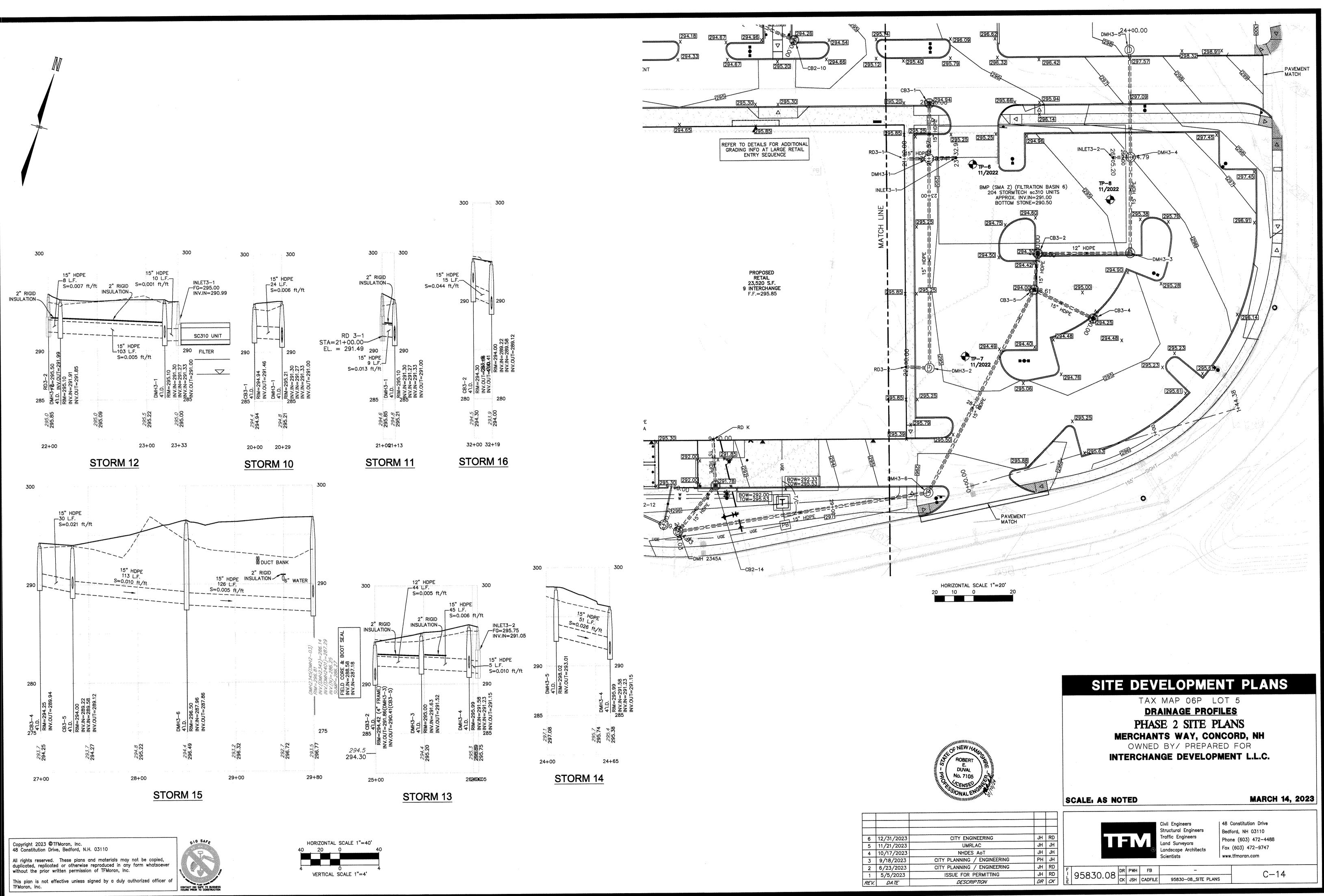
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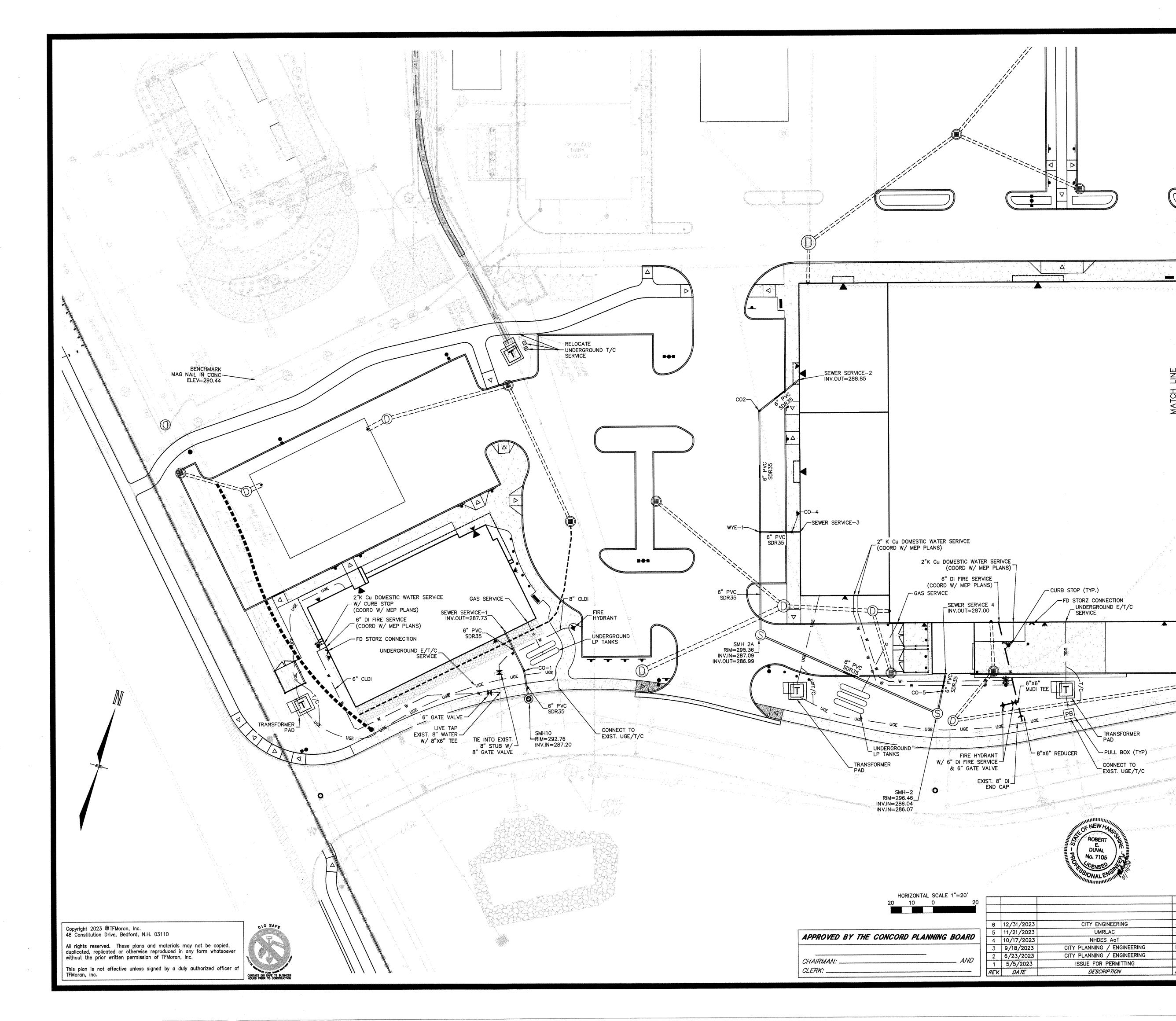
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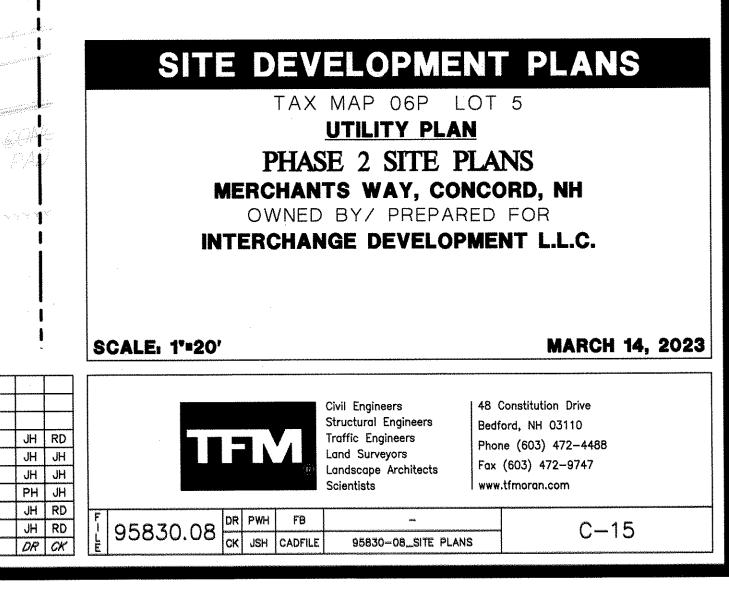
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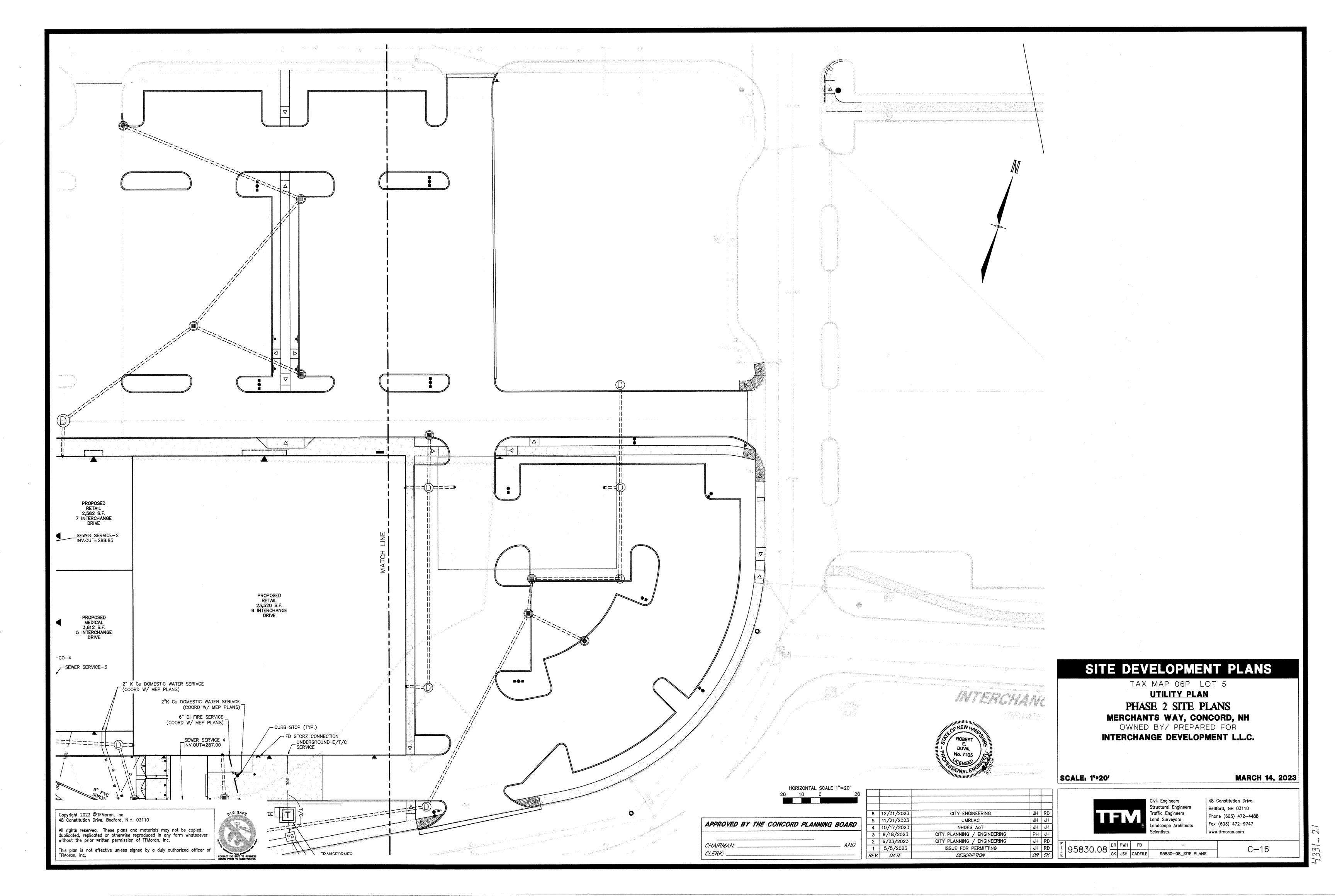


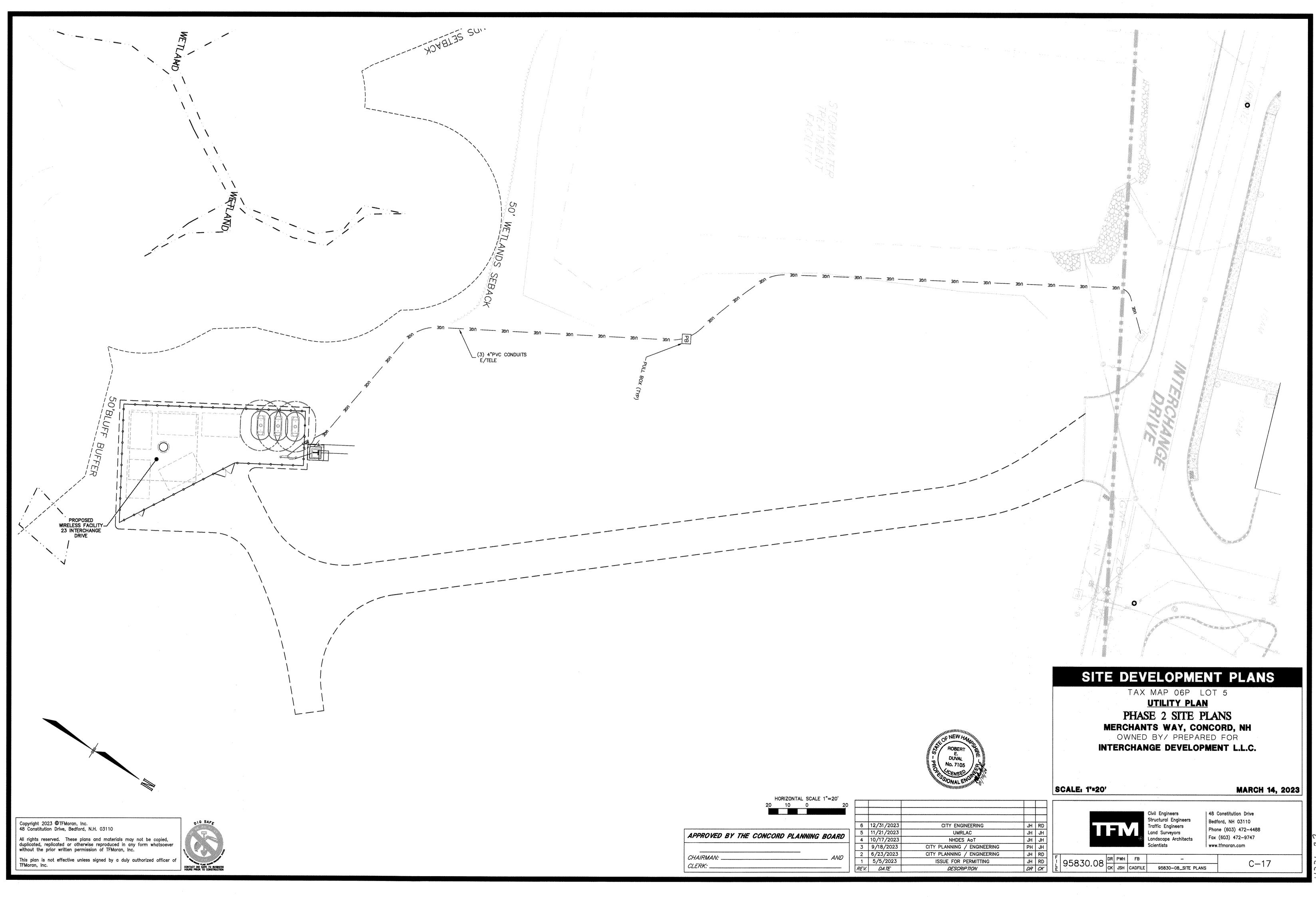


- 1. ALL WORK SHALL CONFORM TO THE CITY OF CONCORD CONSTRUCTION STANDARDS, AND SHALL BE BUILT IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- 2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE SITE AND ALL SURROUNDING CONDITIONS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS, PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION BE AGREED TO BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT "DIGSAFE" (811) AT LEAST 72 HOURS BEFORE DIGGING.
- 4. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA AND SHALL COORDINATE AS NECESSARY WITH THE UTILITY COMPANIES OF SAID UTILITIES. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 5. THE CONTRACTOR SHALL COORDINATE MATERIALS AND INSTALLATION SPECIFICATIONS WITH THE INDIVIDUAL UTILITY AGENCIES/COMPANIES, AND ARRANGE FOR ALL INSPECTIONS.
- 6. ALL MANHOLES IN PAVEMENT SHALL HAVE RIMS SET TO FINISH GRADE REGARDLESS OF ANY ELEVATIONS OTHERWISE SHOWN.
- 7. SANITARY SEWER SHALL BE CONSTRUCTED TO THE STANDARDS AND SPECIFICATIONS AS SHOWN ON THESE PLANS. ALL SEWER MAINS AND FITTINGS SHALL BE PVC AND SHALL CONFORM TO ASTM F 679 (SDR 35 MINIMUM). SANITARY MANHOLES SHALL CONFORM TO NHDES WATER DIVISION WASTEWATER ENGINEERING BUREAU STANDARDS AND SPECIFICATIONS SHOWN HEREON.
- 8. ON-SITE WATER DISTRIBUTION SHALL BE TO CITY OF CONCORD CONSTRUCTION STANDARDS. WATER MAINS SHALL HAVE A MINIMUM OF 5.5 FEET COVER. WHERE WATER PIPES CROSS SEWER LINES A MINIMUM OF 18" VERTICAL SEPARATION BETWEEN THE TWO OUTSIDE PIPE WALLS SHALL BE OBSERVED. HORIZONTAL SEPARATION BETWEEN WATER AND SEWER SHALL BE 10 FEET MINIMUM. THRUST BLOCKS SHALL BE USED AT ALL BENDS IN THE WATER MAINS.
- 9. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT AND WIRING TO ALL SIGNS AND LIGHTS. CONDUIT TO BE A MINIMUM OF 24" BELOW FINISH GRADE.
- 10. VERIFY UTILITY CONNECTIONS TO BUILDING WITH ARCHITECTURAL DRAWINGS.
- 11. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
- 12. LIMITS OF WORK ARE SHOWN AS APPROXIMATE. THE CONTRACTOR SHALL COORDINATE ALL WORK TO PROVIDE SMOOTH TRANSITIONS. THIS INCLUDES GRADING, PAVEMENT, CURBING, SIDEWALKS AND ALIGNMENTS.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR THE CONDITIONS AT THE SITE. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE ENGINEER.
- 14. UNLESS OTHERWISE SPECIFIED, ALL UNDERGROUND STRUCTURES, PIPES, CHAMBERS, ETC. SHALL BE COVERED WITH A MINIMUM OF 18" OF COMPACTED SOIL BEFORE EXPOSURE TO VEHICLE LOADS.



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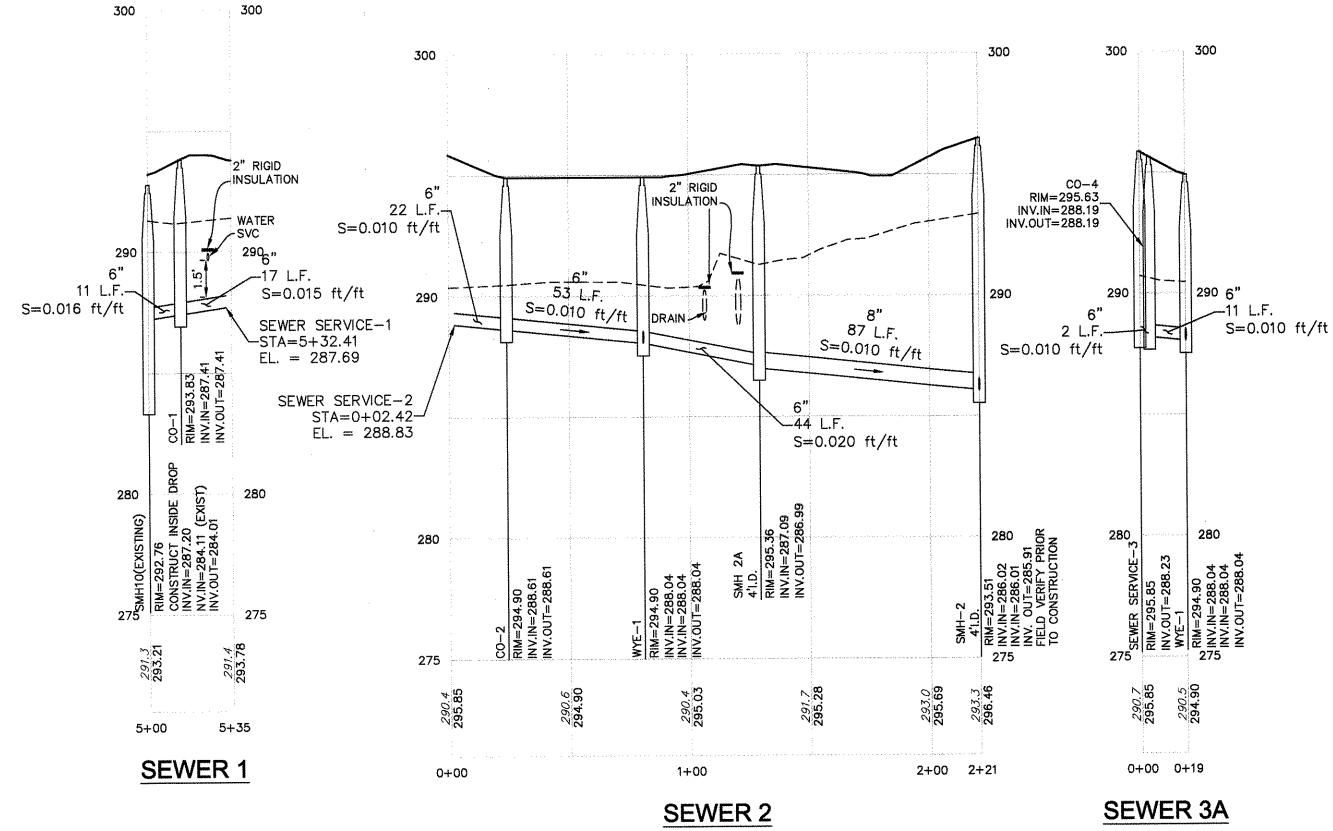


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	3	9/18/2023
CHAIRMAN: AND	2	6/23/2023
	1	5/5/2023
CLERK:	REV.	DATE

	Structure Table				
Structure Name Structure Details					
CO-1	RIM = 293.83 Pipe - (90) INV IN = 287.408 Pipe - (92) INV OUT = 287.410				
SEWER SERVICE-1	RIM = 293.78 Pipe - (90) INV OUT = 287.727				
SMH10	RIM = 292.76 Pipe - (92) INV IN = 287.200				

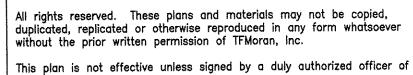
Pipe Table					
Pipe Name	Size	Length	Slope		
Pipe - (90)	6"	21 L.F.	1.50%		
Pipe - (92)	6"	13 L.F.	1.56%		

Structure Table				
Structure Name	Structure Details			
CO-2	$\begin{array}{rl} {\sf RIM} &=& 294.90\\ {\sf Pipe} &-& (83) \ (2) & {\sf INV} \ {\sf IN} &=& 288.610\\ {\sf Pipe} &-& (84) \ (2) & {\sf INV} \ {\sf OUT} &=& 288.610 \end{array}$			
CO-4	$\begin{array}{rl} {\sf RIM} &=& 295.63 \\ {\sf Pipe} &-& (169) & {\sf INV} \; {\sf IN} \;=\; 288.190 \\ {\sf Pipe} \;-& (86) \; (1) \; (2) & {\sf INV} \; {\sf OUT} \;=\; 288.190 \end{array}$			
CO-5	$\begin{array}{rl} {\sf RIM} &=& 295.59 \\ {\sf Pipe} \;-\; (81) \; (1) & {\sf INV} \; {\sf IN} \;=\; 286.580 \\ {\sf Pipe} \;-\; (81) \; (1) \; (1) & {\sf INV} \; {\sf OUT} \;=\; 286.580 \end{array}$			
SERVICE-2	RIM = 295.85 Pipe - (83) (2) INV OUT = 288.850			
SEWER SERVICE-3	RIM = 295.85 Pipe - (169) INV OUT = 288.230			
SEWER SERVICE-4	RIM = 293.85 Pipe - (81) (1) INV OUT = 287.001			
SMH-2	$\begin{array}{rl} {\sf RIM} &=& 296.46\\ {\sf Pipe} &-& (81) \ (1) \ (1) \ {\sf INV} \ {\sf IN} &=& 286.039\\ {\sf Pipe} &-& (85) \ (1) \ {\sf INV} \ {\sf IN} &=& 286.070 \end{array}$			
SMH 2A	RIM = 295.36 Pipe - (91) (2) INV IN = 287.092 Pipe - (85) (1) INV OUT = 286.990			
WYE-1	$\begin{array}{rl} {\sf RIM} &= 294.90 \\ {\sf Pipe} &- (86) (1) (2) & {\sf INV} \; {\sf IN} &= 288.040 \\ {\sf Pipe} &- (84) (2) & {\sf INV} \; {\sf IN} &= 288.040 \\ {\sf Pipe} &- (91) (2) & {\sf INV} \; {\sf OUT} &= 288.040 \end{array}$			



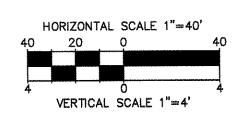
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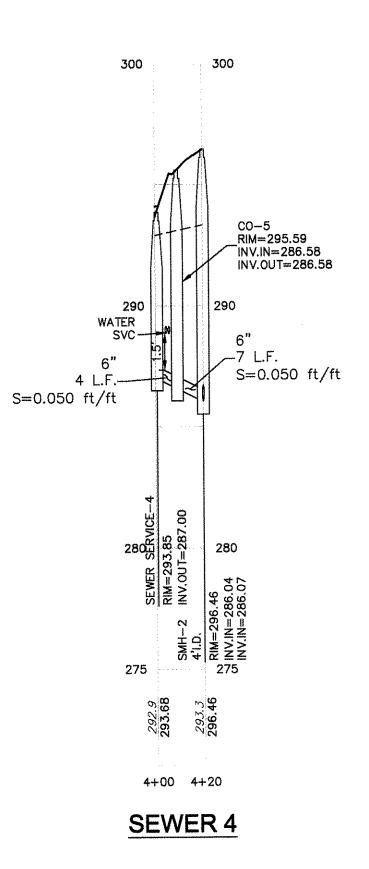


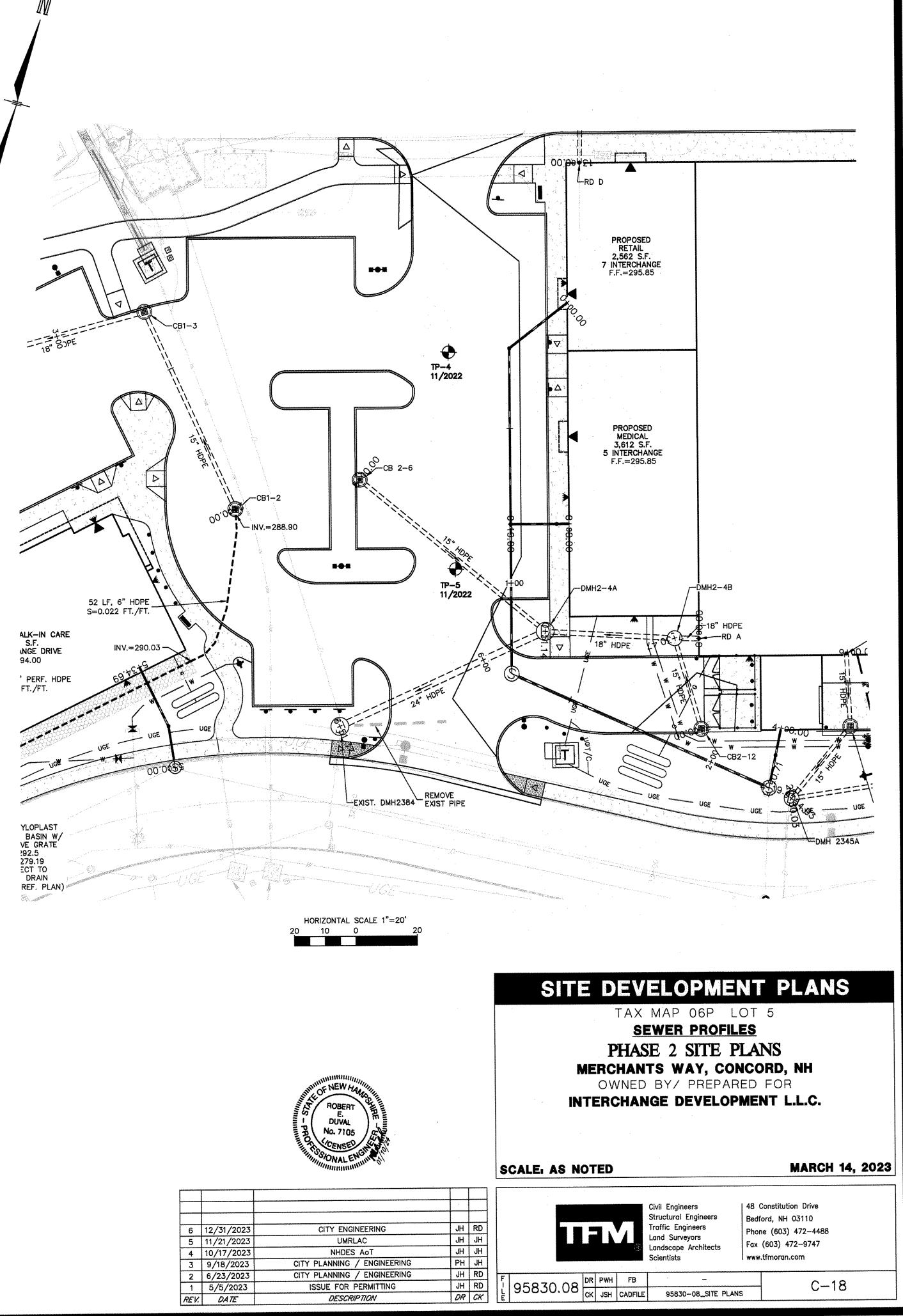
CONTACT DIG SAFE 72 BUSINESS HOURS PRIOR TO CONSTRUCTION

OIG SAFE



Pipe	Table		
Pipe Name	Size	Length	Slope
Pipe - (81) (1)	6"	8 L.F.	5.03%
Pipe - (83) (2)	6"	24 L.F.	1.00%
Pipe - (84) (2)	6"	57 L.F.	1.00%
Pipe - (85) (1)	8"	91 L.F.	1.01%
Pipe - (86) (1) (2)	6"	15 L.F.	1.00%
Pipe - (91) (2)	6"	48 L.F.	1.96%
Pipe - (169)	6"	4 L.F.	1.00%
Pipe - (81) (1) (1)	6"	11 L.F.	5.03%

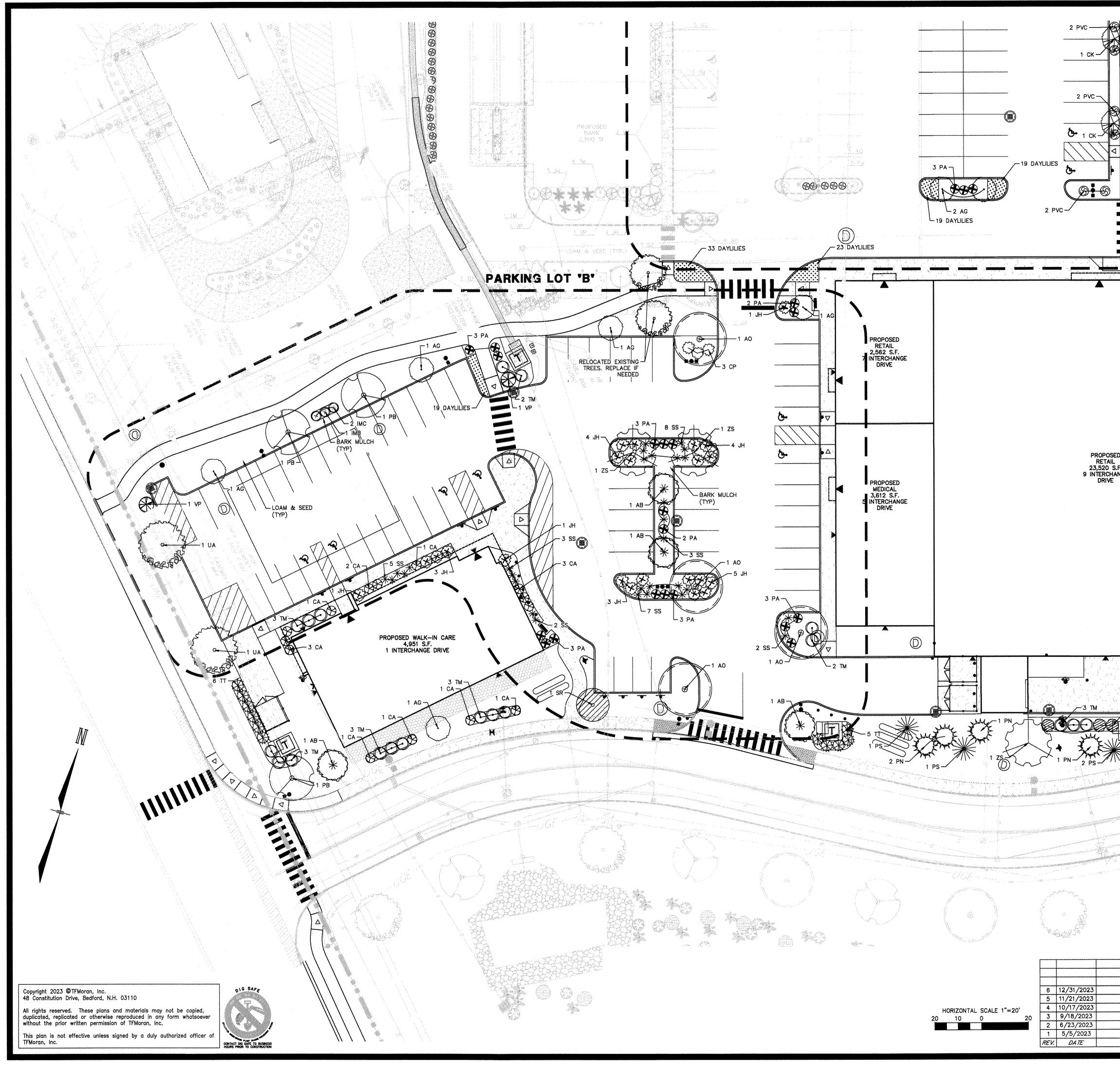




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		SYMBOL	QTY	BOTANICAL NAME COMMON NAME	SIZE	REMARKS
2 PVC		SHADE TREES				
		ж Ав	9	ACER RUBRUM 'BOWHALL'	2 1/2" TO 3"	B&B
		han and the second		BOWHALL RED MAPLE	CAL.	
G - 1 CK	∎ ∎]		4-y (-, (-),-),-(-, 1-y (-), -) (-) (-) (-) (-) (-) (-) (-) (-) (-)		, , , , , , , , , , , , , , , , , , ,	An a dan manana dan da da da adam a da manana a
					0 4 /0" TO 7"	
			6	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	2 1/2" TO 3" CAL.	B&B
• -3						
		\sim			9/11 = 2 + 2 + 1 = 2 +	
		РВ	4	PLATANUS X ACREIFOLIA 'BLOODGOOD'	2 1/2" TO 3"	B&B
	LIES - 3 PA		ľ	BLOODGOOD LONDON PLANETREE	CAL.	900
(73) (77)			1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	nengen von an en en en en erste Baronna er et blad av 1515 blad er dat an den ar blad Stabate mennet dat mennet	ha da da ta ta ta angar angang kyanak ananata aka na ta ta ata ta ta ta	918-16 2018 2018 18 18 18 18 19 18 19 1
		E 2 OP	2	QUERCUS PALUSTRIS 'GREEN PILLAR'	2 1/2" TO 3"	B&B
	1 AG	Elso -		GREEN PILLAR PIN OAK	CAL.	
• 1 PB		La				
		AU CA	2	ULMUS AMERICANA 'PRINCETON' PRINCETON AMERICAN ELM	2 1/2" TO 3"	B&B
				a a san san a ar sa a san tara a s	CAL.	
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		S J ZS	4	ZELKOVA SERRATA 'VILLAGE GREEN' VILLAGE GREEN ZELKOVA	2 1/2" TO 3" CAL.	B&₿
		×~~~	an a			
		ORNAMENTAL T	REES			
		· AG	12	AMELANCHIER X GRANDIFLORA 'ROBIN HILL' ROBIN HILL SERVICEBERRY	2 1/2" TO 3" CAL.	B&B
					VAL.	den halfe de son fe de au dr, for on fer ke d
		СК	4	CORNUS KOUSA KOUSA DOGWOOD	2 1/2" TO 3"	B&B
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	<u> </u>		•	CRATAEGUS LAEVIGATA 'CRIMSON CLOUD'	2 1/2" TO 3"	444 - J. 475
	臣		2	CRIMSON CLOUD HAWTHORN	CAL.	B&B
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		SR SR	an and a second s	SYRINGA RETICULATA JAPANESE LILAC TREE	2 1/2" TO 3"	B&B
					CAL.	
		EVERGREEN TR	EES			
		PS	. 4	PICEA PUNGENS 'BLUE SELECT' SELECT BLUE SPRUCE	6' TO 7'	B&₿
	, .	-7/15 Suble	The Point of the Republic Point Point Contraction		an, an pang ang tang tang ang ang ang ang ang ang ang ang ang	an fai da chu dei gar an na ani da an daran ba
		J F PN	4	PICEA NIGRA NORWAY SPRUCE	6' TO 7'	B&B
		SHRUBS	<u>l</u>		 	ļ
		CP CP	7	CHAMAECYPRIS P. 'F. MOPS' MOP'S THREAD-LEAF FALSECYPRESS	3 GAL.	CONT.
			14	CLETHRA ALNIFOLIA 'RUBY SPICE' RUBY SPICE SUMMERSWEET	3 GAL.	CONT.
		IMC	6 ·	ILEX X MESERVEAE 'CHINA GIRL' CHINA GIRL HOLLY	5 GAL.	CONT.
		IMB	3	ILEX X MESERVEAE 'CHINA BOY'	3 GAL.	CONT.
			77	CHINA BOY HOLLY JUNIPERUS H. 'PLUMOSA COMPACTA'	3 GAL.	CONT.
				YOUNGTOWN JUNIPER PHYSOCARPUS O. SUMMER WINE'	9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		PO	5	SUMMER WINE NINEBARK	3 GAL.	CONT.
			28	TAXUS MEDIA 'HICKSII' HICK'S YEW	2' TO 2 1/2'	B&B
		тт 🕉	11	THUJA O. 'TECHNY' MISSION ARBORVITAE	5' TO 6'	B&B
		R vp	5	VIBURNUM P.T. 'SHOSHONI' SHOSHONI DOUBLEFILE VIBURNUM	3' TO 4'	B&B
LOAM & SEED				SALVIA SUPERBA 'BLUE HILL'	1 No. You	
(TYP)		* ss	38	BLUE HILL SAGE	1 GAL.	CONT.
		PA PA	36	PENNISETUM ALO. 'HAMELN' HAMELN DWARF FOUNTAIN GRASS	1 GAL.	CONT.
-3 PO -3 TM		S PVC	27	PANICUM V. 'CHEYENNE SKY' CHEYENNE SKY SWITCH GRASS	2 GAL.	CON T.
	5 T V. 9		113/114	HEMEROCALLIS 'HAPPY RETURNS/PARDON ME'	1 GAL.	CONT.



SCALE: 1"=20'

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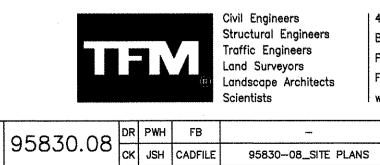
CITY PLANNING / ENGINEERING

CITY PLANNING / ENGINEERING

ISSUE FOR PERMITTING

DESCRIPTION

MARCH 14, 2023

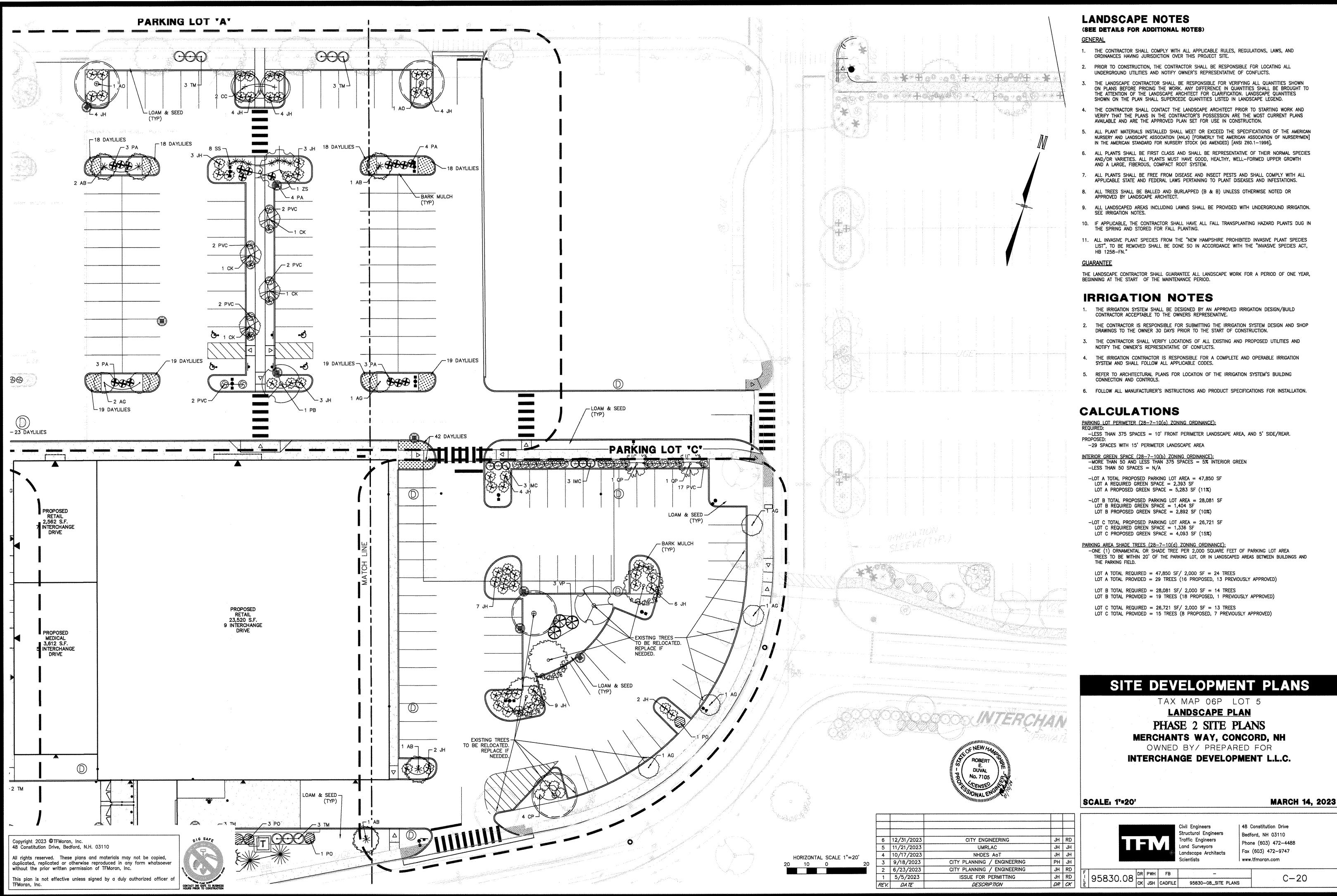


Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists

48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com

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- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON PLANS BEFORE PRICING THE WORK. ANY DIFFERENCE IN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION, LANDSCAPE QUANTITIES SHOWN ON THE PLAN SHALL SUPERCEDE QUANTITIES LISTED IN LANDSCAPE LEGEND.
- 4. THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT PRIOR TO STARTING WORK AND VERIFY THAT THE PLANS IN THE CONTRACTOR'S POSSESSION ARE THE MOST CURRENT PLANS
- 5. ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (ANLA) [FORMERLY THE AMERICAN ASSOCIATION OF NURSERYMEN] IN THE AMERICAN STANDARD FOR NURSERY STOCK (AS AMENDED) [ANSI Z60.1-1996],
- ALL PLANTS SHALL BE FIRST CLASS AND SHALL BE REPRESENTATIVE OF THEIR NORMAL SPECIES AND/OR VARIETIES. ALL PLANTS MUST HAVE GOOD, HEALTHY, WELL-FORMED UPPER GROWTH
- 7. ALL PLANTS SHALL BE FREE FROM DISEASE AND INSECT PESTS AND SHALL COMPLY WITH ALL
- 8. ALL TREES SHALL BE BALLED AND BURLAPPED (B & B) UNLESS OTHERWISE NOTED OR
- 9. ALL LANDSCAPED AREAS INCLUDING LAWNS SHALL BE PROVIDED WITH UNDERGROUND IRRIGATION.
- 10. IF APPLICABLE, THE CONTRACTOR SHALL HAVE ALL FALL TRANSPLANTING HAZARD PLANTS DUG IN THE SPRING AND STORED FOR FALL PLANTING.
- LIST", TO BE REMOVED SHALL BE DONE SO IN ACCORDANCE WITH THE "INVASIVE SPECIES ACT,

THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE WORK FOR A PERIOD OF ONE YEAR,

- 2. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE IRRIGATION SYSTEM DESIGN AND SHOP

- 5. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF THE IRRIGATION SYSTEM'S BUILDING
- 6. FOLLOW ALL MANUFACTURER'S INSTRUCTIONS AND PRODUCT SPECIFICATIONS FOR INSTALLATION.

- -LESS THAN 375 SPACES = 10' FRONT PERIMETER LANDSCAPE AREA, AND 5' SIDE/REAR.

- TREES TO BE WITHIN 20' OF THE PARKING LOT, OR IN LANDSCAPED AREAS BETWEEN BUILDINGS AND

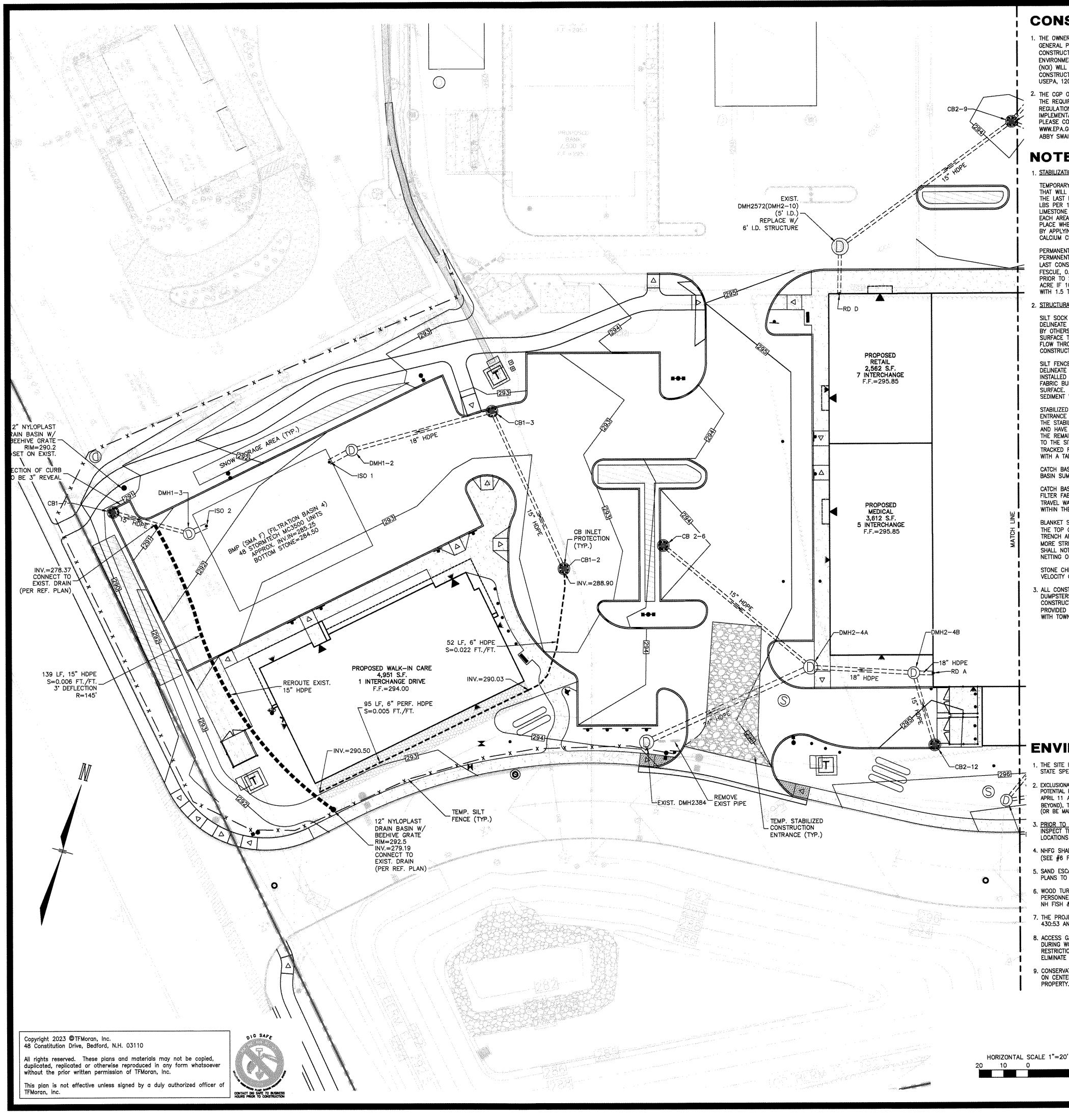
CITY ENGINEERING	JH	RD
UMRLAC	JH	JH
NHDES AOT	JH	JH
ITY PLANNING / ENGINEERING	PH	JH
ITY PLANNING / ENGINEERING	JH	RD
ISSUE FOR PERMITTING	JH	RD
DESCRIPTION	DR	CK

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CONSTRUCTION GENERAL PERMIT

- THE OWNER. IN CONJUNCTION WITH THE CONTRACTOR (OPERATORS), NEEDS TO OBTAIN A CONSTRUCTION (NOI) WILL NEED TO BE SUBMITTED TO THE EPA AT LEAST 7 DAYS PRIOR TO COMMENCING USEPA, 1200 PENNSYLVANIA AVE. NW, WASHINGTON, DC 20460.
- PLEASE CONTACT USEPA OFFICE OF WASTEWATER MANAGEMENT AT 202-564-9545 OR AT ABBY SWAINE OF NEW ENGLAND'S EPA REGION 1 AT 617-918-1841.

NOTES

- STABILIZATION PRACTICES FOR EROSION AND SEDIMENTATION CONTROLS:
- CALCIUM CHLORIDE SHALL BE USED FOR DUST CONTROL IF NEEDED. PERMANENT STABILIZATION - DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES
- 2. STRUCTURAL PRACTICES FOR EROSION AND SEDIMENTATION CONTROL
- CONSTRUCTION AREA.
- SEDIMENT WITHIN THE CONSTRUCTION AREA.
- WITH A TARPAULIN.
- BASIN SUMPS.
- WITHIN THE PARKING AREA AND GRASS.
- NETTING OR MESH.
- VELOCITY OF CONCENTRATED STORM WATER FLOWS AND PREVENT ERUSION OF THE SWAL
- 3. ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURE WITH TOWN AND STATE REGULATIONS.

ENVIRONMENTAL COMMITMENTS

- STATE SPECIES OF SPECIAL CONCERN.

- 4. NHFG SHALL BE CONTACTED IF WOOD TURTLES OR ANY OTHER LISTED SPECIES ARE ENCOUNTERED (SEE #6 FOR CONTACT INFORMATION).
- PLANS TO ALLOW ANY ENTRAPPED TURTLES TO EXIST THE SITE BY CLIMBING OVER THE SILT FENCE.
- VH FISH & CAME WITH OBSERVATIONS PLEASE TAKE PHOTOGRAPHS IF FEASIBLE. 7. THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA
- 8. ACCESS GATES SHALL RAMAIN CLOSED AT THE END OF THE WORK DAY (6 AM TO 6 PM), WEEKENDS, AND DURING WORK DAY HOURS DURING TIMES OF NO TRAFFIC ENTERING OR EXITING THE SITE. THIS RESTRICTION IS IN EFFECT FROM APRIL 1ST TO OCTOBER 15TH OF EACH CONSTRUCTION YEAR TO
- D. CONSERVATION AREA DISTRICT SIGNAGE IS REQUIRED TO BE PLACED ON EXISTING VEGETATATION AT 100 FT ON CENTER ALONG THE INTERIOR EDGE OF THE BLUFF BUFFER AROUND THE PERIMETER OF THE

	6	12/31/2023	
	5	11/21/2023	
	4	10/17/2023	
20	3	9/18/2023	
	2	6/23/2023	
	1	5/5/2023	
	REV.	DATE	

GENERAL PERMIT (CGP) FOR LARGE CONSTRUCTION ACTIVITIES (FIVE OR MORE ACRES) OR SMALL CONSTRUCTION ACTIVITIES (GREATER THAN ONE ACRE BUT LESS THAN FIVE ACRES) FROM THE ENVIRONMENTAL PROTECTION AGENCY (EPA). AS PART OF THE CGP, A STORM WATER NOTICE OF INTENT CONSTRUCTION. THE NOI WILL NEED TO BE SUBMITTED TO STORM WATER NOTICE OF INTENT (4203M),

2. THE CGP OUTLINES A SET OF PROVISIONS MANDATING THE OWNER AND CONTRACTOR TO COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER REGULATIONS, INCLUDING, BUT NOT LIMITED TO, STORM WATER POLLUTION PREVENTION PLANS (SWPPP'S), IMPLEMENTATION OF EROSION AND SEDIMENTATION CONTROLS, EQUIPMENT MAINTENANCE GUIDELINES, ETC. WWW.EPA.GOV/NPDES/STORMWATER FOR ADDITIONAL INFORMATION. IN ADDITION, ONE CAN CONTACT

TEMPORARY STABILIZATION - TOPSOIL STOCKPILES AND DISTURBED AREAS OF THE CONSTRUCTION SITE THAT WILL NOT BE REDISTURBED FOR 14 DAYS OR MORE MUST BE STABILIZED BY THE 14TH DAY AFTER THE LAST DISTURBANCE. THE TEMPORARY SEED SHALL BE ANNUAL RYE APPLIED AT THE RATE OF 1.1 LBS PER 1,000 SQUARE FEET. PRIOR TO SEEDING, A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL IMESTONE AND 500 LBS PER ACRE OF 10-20-20 FERTILIZER SHALL BE APPLIED. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 1.5 TONS PER ACRE OF HAY MULCH. MULCH TO BE ANCHORED IN PLACE WHERE NECESSARY. AREAS OF THE SITE THAT WILL BE PAVED WILL BE TEMPORARILY STABILIZED BY APPLYING GEOTEXTILES AND A STONE SUB-BASE UNTIL BITUMINOUS PAVEMENT CAN BE APPLIED.

PERMANENTLY CEASES SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 3 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. THE PERMANENT SEED MIX SHALL CONSIST OF 0.45 LBS/1,000 S.F. TALL FESCUE, 0.20 LBS/1.000 S.F. CREEPING RED FESCUE, AND 0.20 LBS/1,000 S.F. BIRDSFOOT TREFOIL. PRIOR TO SEEDING, A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS PER ACRE IF 10-20-20 FERTILIZER SHALL BE APPLIED. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 1.5 TONS PER ACRE OF HAY MULCH. MULCH TO BE ANCHORED IN PLACE WHERE NECESSARY.

SILT SOCK - WILL BE CONSTRUCTED AROUND THE PERIMETER OF THE DISTURBED AREAS AND WILL DELINEATE THE LIMITS OF WORK FOR THE PROPOSED CONSTRUCTION. THE SILT SOCK WILL BE INSTALLED BY OTHERS. POSTS SHALL BE USED WITH AT LEAST 6 INCHES OF THE POST BURIED BELOW THE GROUND SURFACE TO PREVENT THE SILT SOCK FROM FORMING GAPS NEAR THE GROUND SURFACE. RUNOFF WILL FLOW THROUGH THE OPENINGS IN THE SILT SOCK WHILE RETAINING THE SEDIMENT WITHIN THE

SILT FENCE - WILL BE CONSTRUCTED AROUND THE PERIMETER OF THE DISTURBED AREAS AND WILL DELINEATE THE LIMITS OF WORK FOR THE PROPOSED CONSTRUCTION. THE SILT FENCE WILL BE INSTALLED BY STRETCHING REINFORCED FILTER FABRIC BETWEEN POSTS WITH AT LEAST 8 INCHES OF THE FABRIC BURIED BELOW THE GROUND SURFACE TO PREVENT GAPS FROM FORMING NEAR THE GROUND SURFACE. RUNOFF WILL FLOW THROUGH THE OPENINGS IN THE FILTER FABRIC WHILE RETAINING THE

STABILIZED CONSTRUCTION ENTRANCE - WILL BE INSTALLED IN ACCORDANCE WITH THE DETAIL AT THE ENTRANCE TO THE CONSTRUCTION SITE TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS OFF THE SITE. THE STABILIZED ENTRANCE WILL BE 20 FEET WIDE AND FLARE AT THE ENTRANCE TO THE PAVED ROAD AND HAVE A DEPTH OF 12 INCHES OF STONE. THE STABILIZED ENTRANCE SHALL BE MAINTAINED UNTIL THE REMAINDER OF THE CONSTRUCTION SITE HAS BEEN FULLY STABILIZED. THE PAVED STREET ADJACENT TO THE SITE SHALL BE SWEPT ON A WEEKLY BASIS TO REMOVE EXCESS MUD AND DIRT FROM BEING TRACKED FROM THE SITE. TRUCKS HAULING MATERIAL TO AND/OR FROM THE SITE SHALL BE COVERED

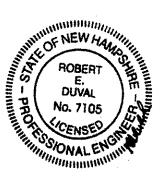
CATCH BASINS - WILL BE CLEANED ON AN ANNUAL BASIS TO REMOVE ALL SEDIMENTS FROM THE CATCH

CATCH BASIN PROTECTION - WILL BE INSTALLED AT ALL CATCH BASINS WITHIN THE CONSTRUCTION AREA. FILTER FABRIC WILL BE INSTALLED AROUND THE GRATES OF CATCH BASINS THAT ARE LOCATED IN THE TRAVEL WAY AND STONE/FILTER FABRIC PROTECTION WILL BE INSTALLED AT THE CATCH BASINS FOUND

BLANKET SLOPE PROTECTION - SHALL BE INSTALLED ON ALL 2:1 SLOPES OR STEEPER ON SITE. ANCHOR THE TOP OF THE BLANKET BY ANCHORING THE BLANKET IN A 6" DEEP TRENCH. BACKFILL AND COMPACT TRENCH AFTER STAPLING. ROLL THE BLANKET IN THE DIRECTION OF STORM WATER FLOW. WHERE 2 OR MORE STRIPS OF BLANKET ARE REQUIRED, A MINIMUM OF 4" OF OVERLAP SHALL BE PROVIDED. BLANKETS SHALL NOT CONTAIN WELDED PLASTIC, PLASTIC, MULTI-FLAMENT, OR MONO-FLAMENT POLYPROPYLENE

STONE CHECK DAMS - WILL BE INSTALLED IN EXISTING AND PROPOSED GRASS SWALES TO REDUCE THE

DUMPSTERS OR APPROVED ENCLOSURE AND REMOVED FROM THE SITE ON A WEEKLY BASIS. NO CONSTRUCTION WASTE SHALL BE BURIED ON SITE. PORTABLE TOILET SANITARY WASTE FACILITIES WILL BE PROVIDED DURING CONSTRUCTION AND MAINTAINED/DISPOSED OF ON A REGULAR BASIS IN ACCORDANCE



1. THE SITE IS WITHIN THE VICINITY OF KNOW HABITAT FOR WOOD TURTLE (GLYPTEMYS INSCULPTA) A

EXCLUSIONARY FENCING SHALL BE INSTALLED IN THE CONSTRUCTION AREA (E.G. SILT FENCING) TO MINIMIZE THE POTENTIAL FOR TURTLES TO BE IMPACTED DURING CONSTRUCTION ACTIVITIES. THIS SHALL BE INSTALLED PRIOR TO APRIL 11 AND BE MAINTAINED THROUGH OCTOBER 15, 2020. IF PROJECT ACTIVITIES EXTEND INTO 2021 (OR BEYOND), THE SILT FENCE SHALL BE INSTALLED AGAIN PRIOR TO APRIL AND MAINTAINED THROUGH OCTOBER 15^T (OR BE MAINTAINED THROUGHOUT THE CONSTRUCTION TIMEFRAME).

. <u>PRIOR TO AND FOLLOWING</u> THE INSTALLATION OF THE SILT FENCE, A <u>QUALIFIED BIOLOGIST</u> SHALL INSPECT THE SITE FOR WOOD TURTLES AND OTHER SPECIES AND MOVE INDIVIDUALS TO SUITABLE LOCATIONS OUTSIDE THE SILT FENCE PERIMETER IN CLOSE PROXIMITY TO WHERE THEY WERE FOUND.

5. SAND ESCAPE RAMPS SHALL BE INSTALLED AT NO LESS THAN 300 FEET APART AS SHOWN ON THE

6. WOOD TURTLE FLYERS SHALL BE POSTED ONSITE WHICH PROVIDE IDENTIFICATION DETAILS AND ADVISE PERSONNEL TO CONTACT MELISSA DOPERALSKI 603-271-1738 OR JOSH MEGYESY 603-271-1125 AT

430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

ELIMINATE THE POSSIBILITY OF PROTECTED WILDLIFE FROM ENTERING THE SITE.

PROPERTY, SIGNAGE SHALL CONFIRM TO CITY OF CONCORD CONSERVATION $^{\infty}$ OMMISSION STANDARDS.

CITY ENGINEERING	JH	RD
UMRLAC	JH	JH
NHDES AoT	JH	JH
CITY PLANNING / ENGINEERING	PH	JH
CITY PLANNING / ENGINEERING	ĴH	RD
ISSUE FOR PERMITTING	JH	RD
DESCRIP TION	DR	CK

NOTES (CONTINUED)

4. A LIST OF CONSTRUCTION ITEMS AND OTHER PRODUCTS USED ON THIS PROJECT SHALL BE KEPT ON RECORD WITH THIS PLAN ONSITE. ALL CHEMICALS, PETROLEUM PRODUCTS AND OTHER MATERIALS USED DURING CONSTRUCTION SHALL BE STORED IN A SECURE AREA, AND PRECAUTIONS USED TO PREVENT POTENTIAL SOURCES OF CONTAMINATION OR POLLUTION. ANY SPILL OF THESE TYPES OF SUBSTANCES SHALL BE CLEANED UP AND DISPOSED OF IN A LEGAL MANNER AS SPECIFIED BY STATE REGULATIONS AND THE MANUFACTURER. ANY SPILL IN AMOUNTS EQUAL TO OR EXCEEDING REPORTABLE QUANTITY AS

DEFINED BY THE EPA SHALL TAKE THE FOLLOWING STEPS: - NOTIFY THE NATIONAL RESPONSE CENTER IMMEDIATELY AT (888) 424-8802; IN WASHINGTON, D.C., CALL (202) 426-2675. - WITHIN 14 DAYS, SUBMIT A WRITTEN DESCRIPTION OF THE RELEASE TO THE EPA REGIONAL OFFICE

PROVIDING THE DATE AND CIRCUMSTANCES OF THE RELEASE AND THE STEPS TO BE TAKEN TO PREVENT ANOTHER RELEASE. - MODIFY THE POLLUTION PREVENTION PLAN TO INCLUDE THE INFORMATION LISTED ABOVE.

GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT

- AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB; - ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR
- APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE; - PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S
- SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER;
- WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER; - MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED; - TRASH DUMPSTERS SHALL BE GASKETED OR HAVE A SECURE WATERTIGHT LID AND BE PLACED AWAY
- FROM STORMWATER CONVEYANCES AND DRAINS. - THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.
- HAZARDOUS PRODUCTS: THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.
- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE; - ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION:
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES: THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON SITE:

FERTILIZERS:

PETROLEUM PRODUCTS: ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

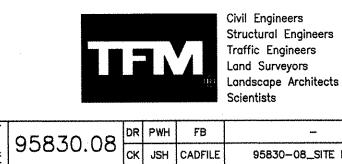
CONCRETE TRUCKS: EXCESS CONCRETE SHALL BE USED IN AREAS DESIGNATED BY THE SITE CONTRACTOR. WASH WATER SHALL BE DISPOSED OF USING BEST MANAGEMENT PRACTICES. BUILDING CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL DRUM WASH WATER ASSOCIATED WITH CONCRETE FOR THE BUILDING PAD. SITE CONTRACTOR TO COORDINATE AND PROVIDE BUILDING CONTRACTOR WITH AN AREA FOR DRUM WASH WATER.

SPILL CONTROL PRACTICES: IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES. - MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL
- STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE. - ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR
- LOCAL GOVERNMENT AGENCY, REGARDLESS OF SIZE. - THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE
- INCLUDED. - THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THI SPILL PREVENTION AND CLEANUP COORDINATOR. THEY WILL DESIGNATE AT LEAST THREE OTHER SITE PERSONNEL WHO WILL EACH RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.
- 5. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN RECORDS OF CONSTRUCTION ACTIVITIES, INCLUDING DATES OF MAJOR GRADING ACTIVITIES, DATES WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED ON A PORTION OF THE SITE, DATES WHEN WORK IS COMPLETED ON A PORTION OF THE SITE, AND DATES WHEN STABILIZATION MEASURES ARE INITIATED ONSITE.
- 6. THE CONTRACTOR SHALL PERFORM INSPECTIONS OR HAVE A CONSULTING ENGINEER PERFORM INSPECTIONS EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS AFTER A STORM OF 0.5 INCH OR GREATER. INSPECTIONS REPORTS ARE TO BE KEPT ON FILE AT THE SITE WITH THIS PLAN. MAINTENANCE OR MODIFICATION SHALL BE IMPLEMENTED AND ADDED TO THE PLAN AS RECOMMENDED BY THE QUALIFIED INSPECTOR.

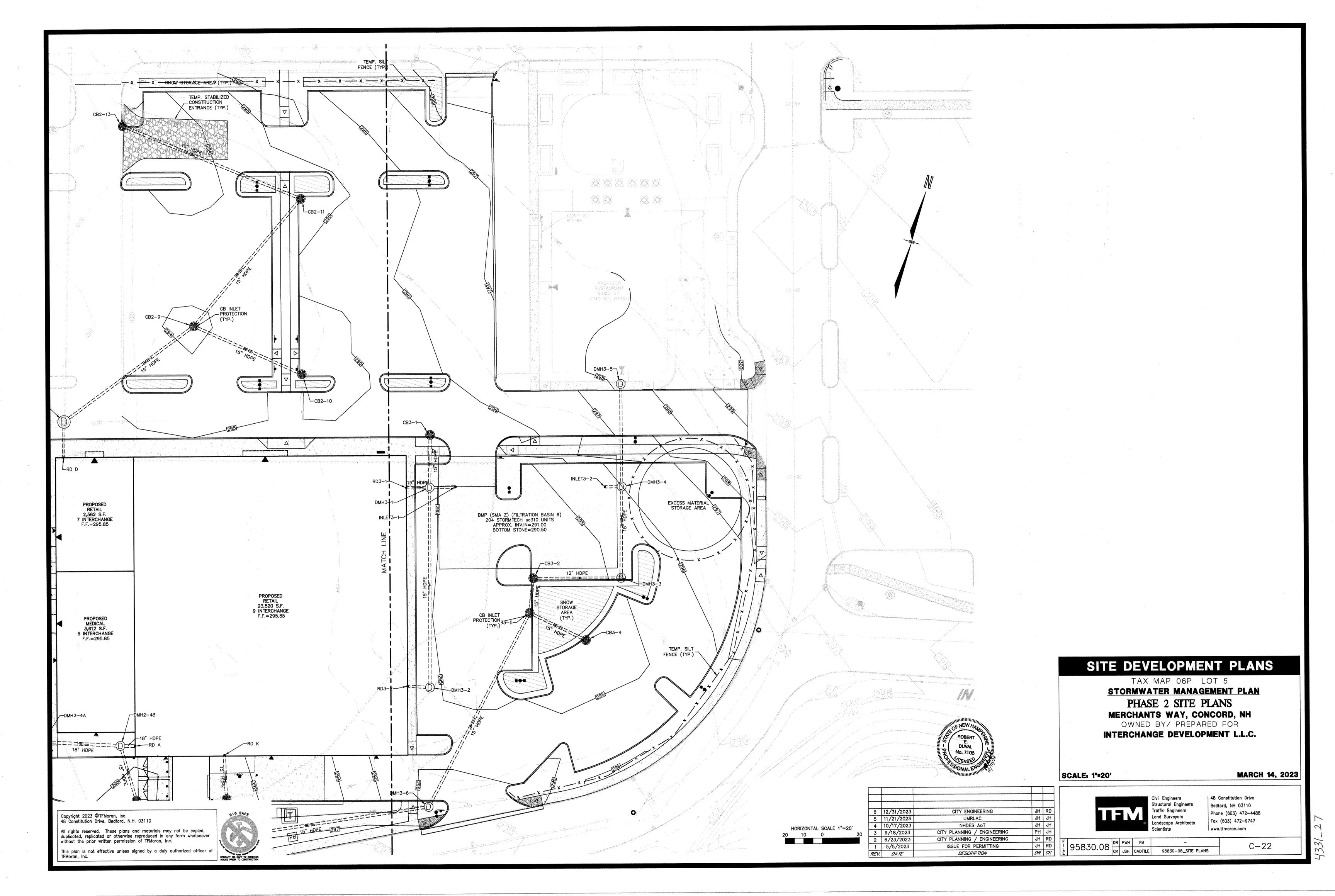
SITE DEVELOPMENT PLANS TAX MAP 06P LOT 5 STORMWATER MANAGEMENT PLAN PHASE 2 SITE PLANS MERCHANTS WAY, CONCORD, NH OWNED BY/ PREPARED FOR **INTERCHANGE DEVELOPMENT L.L.C.** MARCH 14, 2023 SCALE: 1"=20'

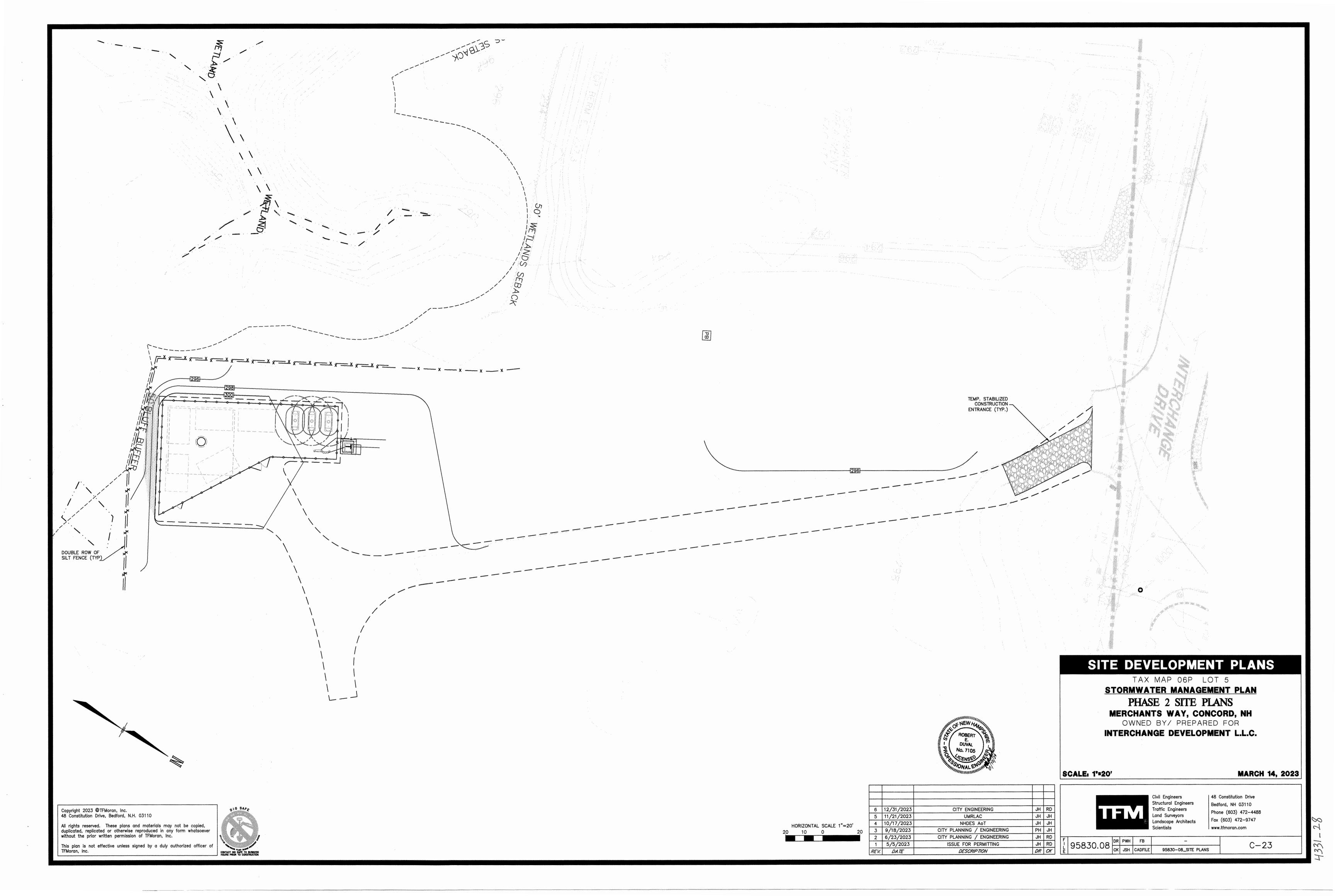
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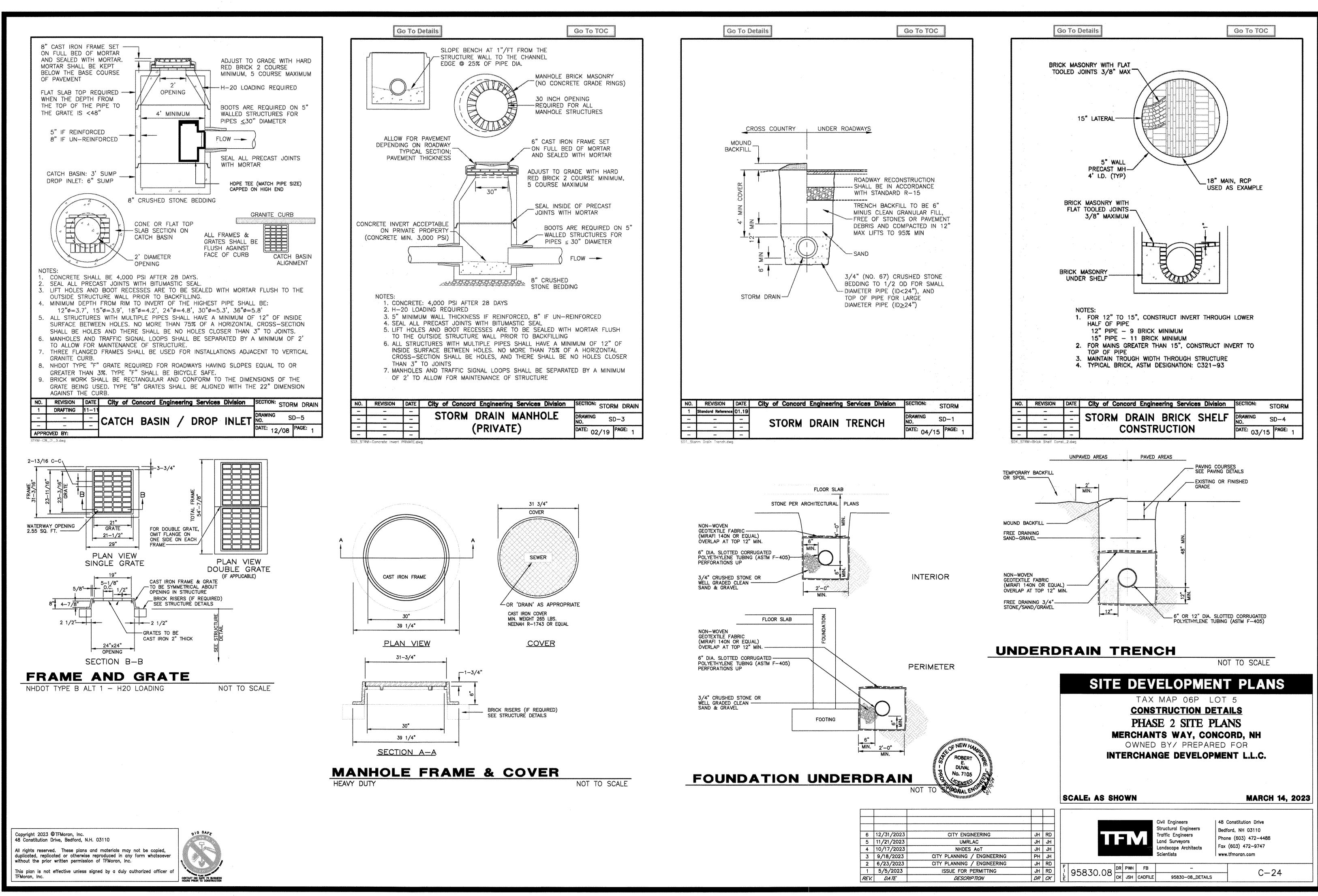


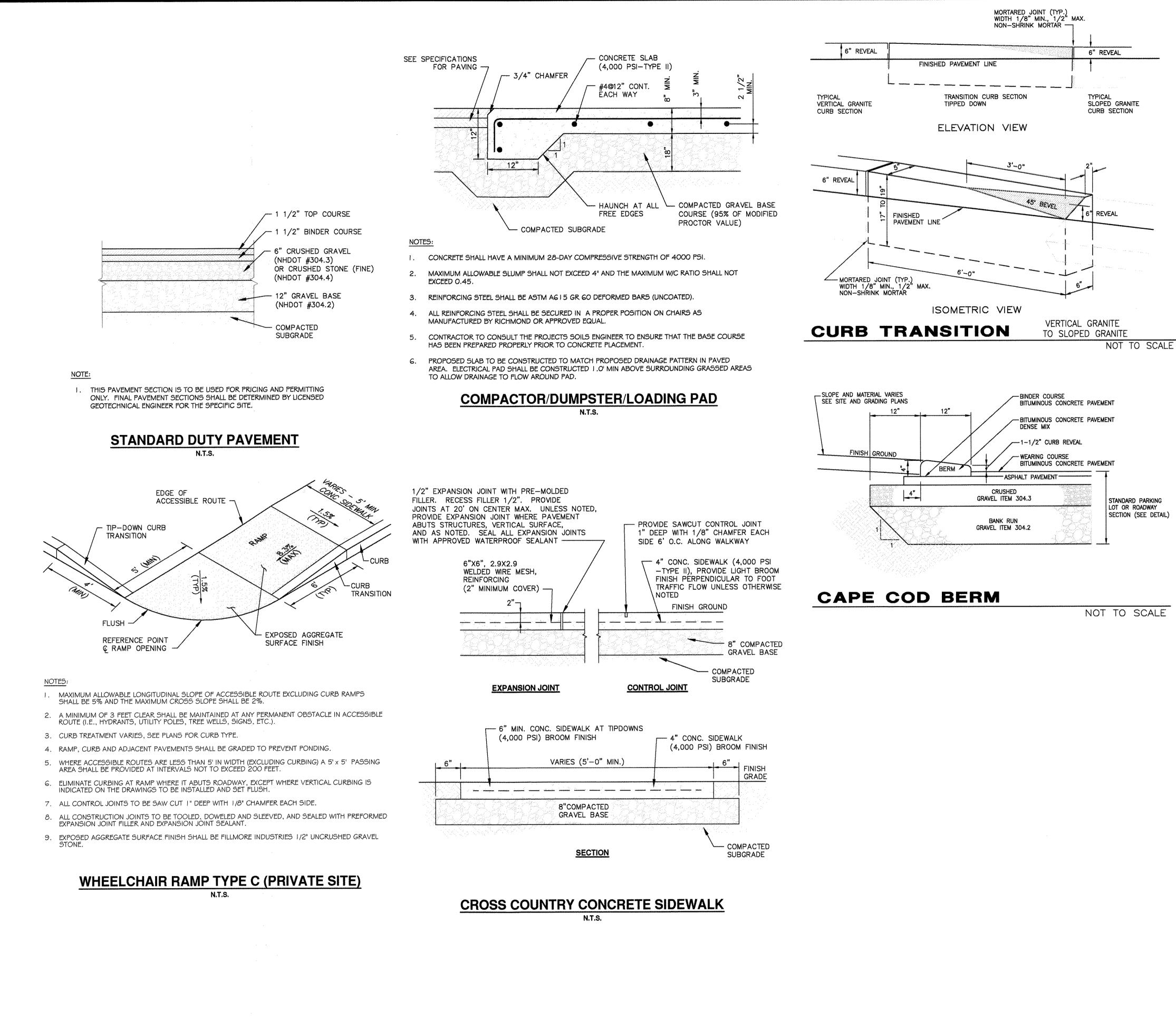
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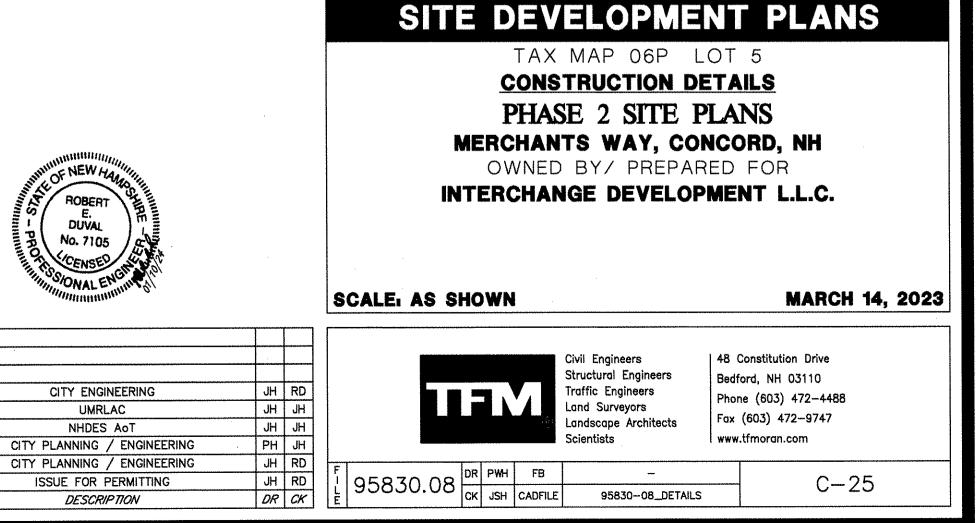
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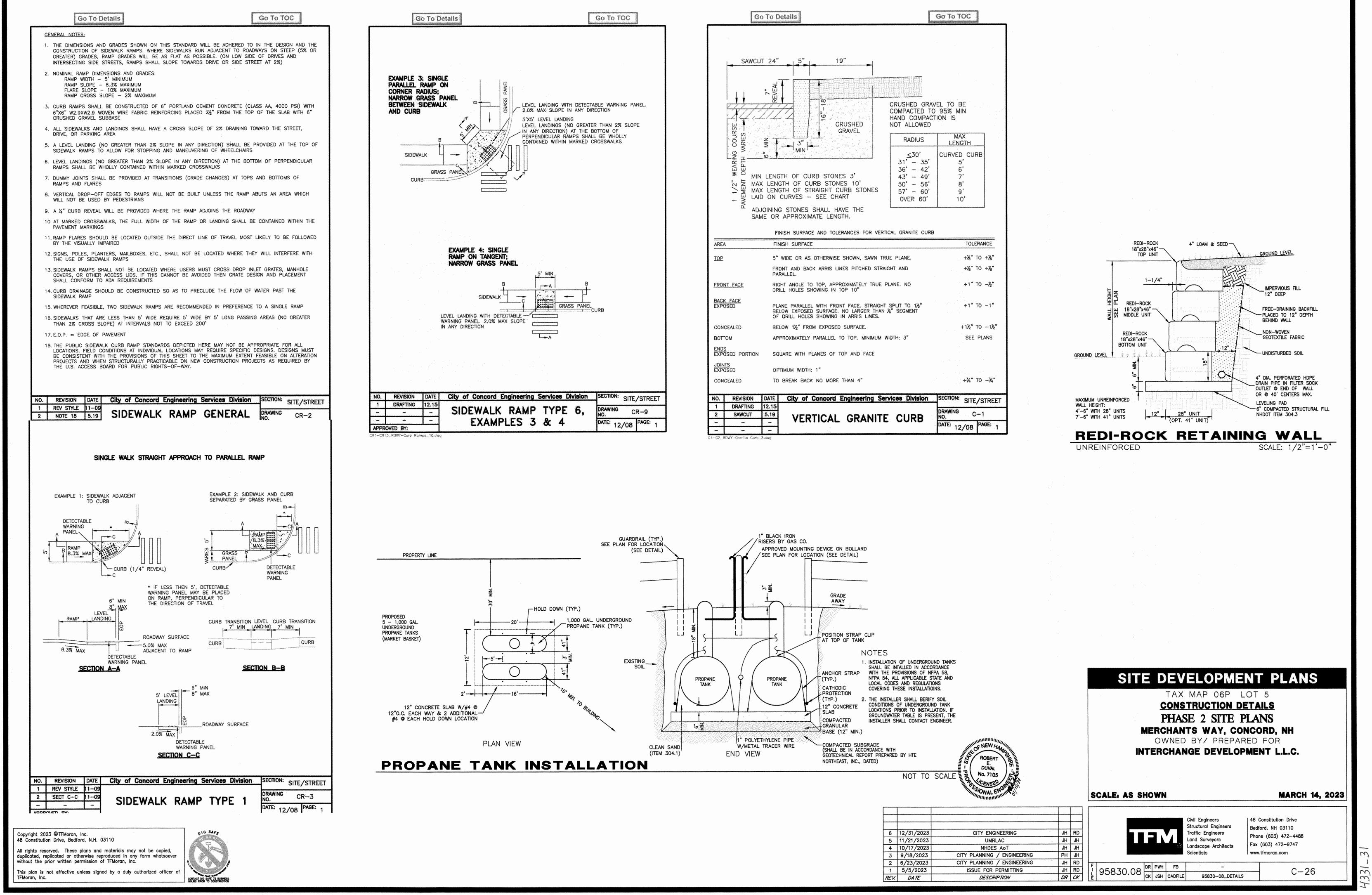
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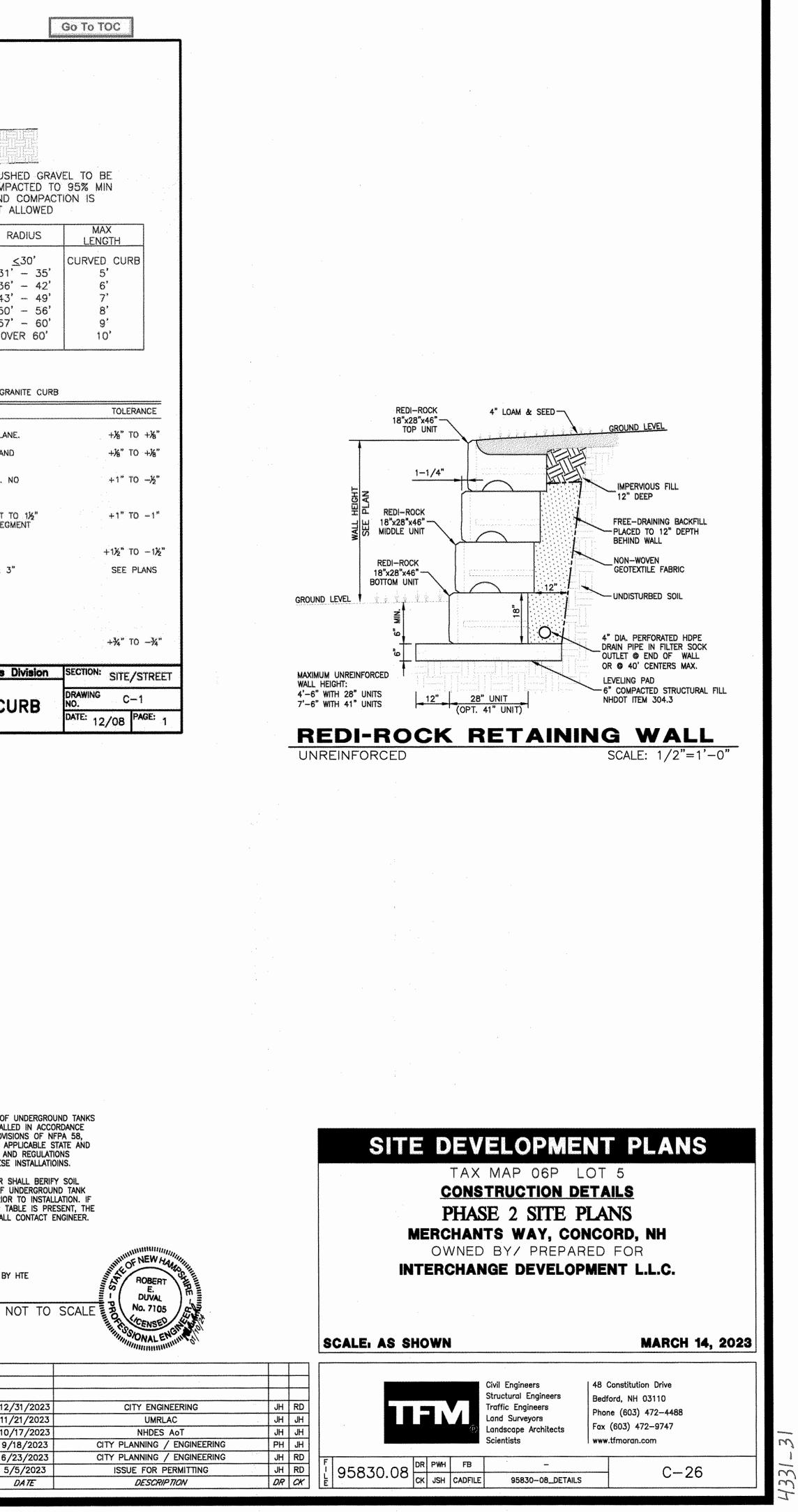
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Go To I	Details		Go To TOC
A MAX LENGTH	GRAVEL MIN) OF STRAIGHT CURB STONES 18" OF STRAIGHT CURB STONES 8' OF STRAIGHT CURB STONES LAID	CRUSHED GRAVEL COMPACTED TO 95 HAND COMPACTION NOT ALLOWED RADIUS $\leq 2'$ >2' - 15' 16' - 28' 29' - 41' 42' - 55' 56' - 68' 69' - 82' 83' - 96'	5% MIN
ADJOINING ST APPROXIMATE	ONES SHALL HAVE THE SAME OR LENGTH. FINISH SURFACE AND TOLERANCES FOR S	OVER 110'	7' 8'
AREA F	INISH SURFACE		TOLERANCE
ARRIS LINES S	TRAIGHT AND TRUE ON TOP, FRONT AND OLES NOT DEEPER THAN ½" ALLOWED IN	ENDS. DRILL ARRIS LINES.	+¼" TO -¼"
FACES EXPOSED PART P D	LANES; NO DRILL HOLES IN FACES LONGE EEPER THAN 沒".	R THAN 8" OR	+1" TO -1"
CONCEALED PART D	RILL HOLES NOT OBJECTIONABLE.		
	QUARE WITH FACE EXCEPT AS INDICATED.		
	IN TANGENT, MAXIMUM WIDTH: 1".	AD DATTAL COAL	+½" TO -½"
	N CURVES OVER 15' RADIUS, WIDEN TOP	OK BOTTOM FROM	+½" TO −½"
0	" AS NECESSARY.		
ل ال	" AS NECESSARY. IN CURVES WITH 15' RADIUS AND UNDER, OINTS OR CURVED CURB AS INDICATED. C	USE RADIAL PTIMUM WIDTH: 1"	+½" TO −½"
ل	ON CURVES WITH 15' RADIUS AND UNDER, OINTS OR CURVED CURB AS INDICATED. C	PTIMUM WIDTH: 1"	CCOTON.
NO. REVISION DATE 1 DRAFTING 11.11	N CURVES WITH 15' RADIUS AND UNDER,	PPTIMUM WIDTH: 1"	SECTION: SITE/STREET
NO. REVISION DATE	ON CURVES WITH 15' RADIUS AND UNDER, OINTS OR CURVED CURB AS INDICATED. C City of Concord Engineering S	iervices Division	CCOTON.





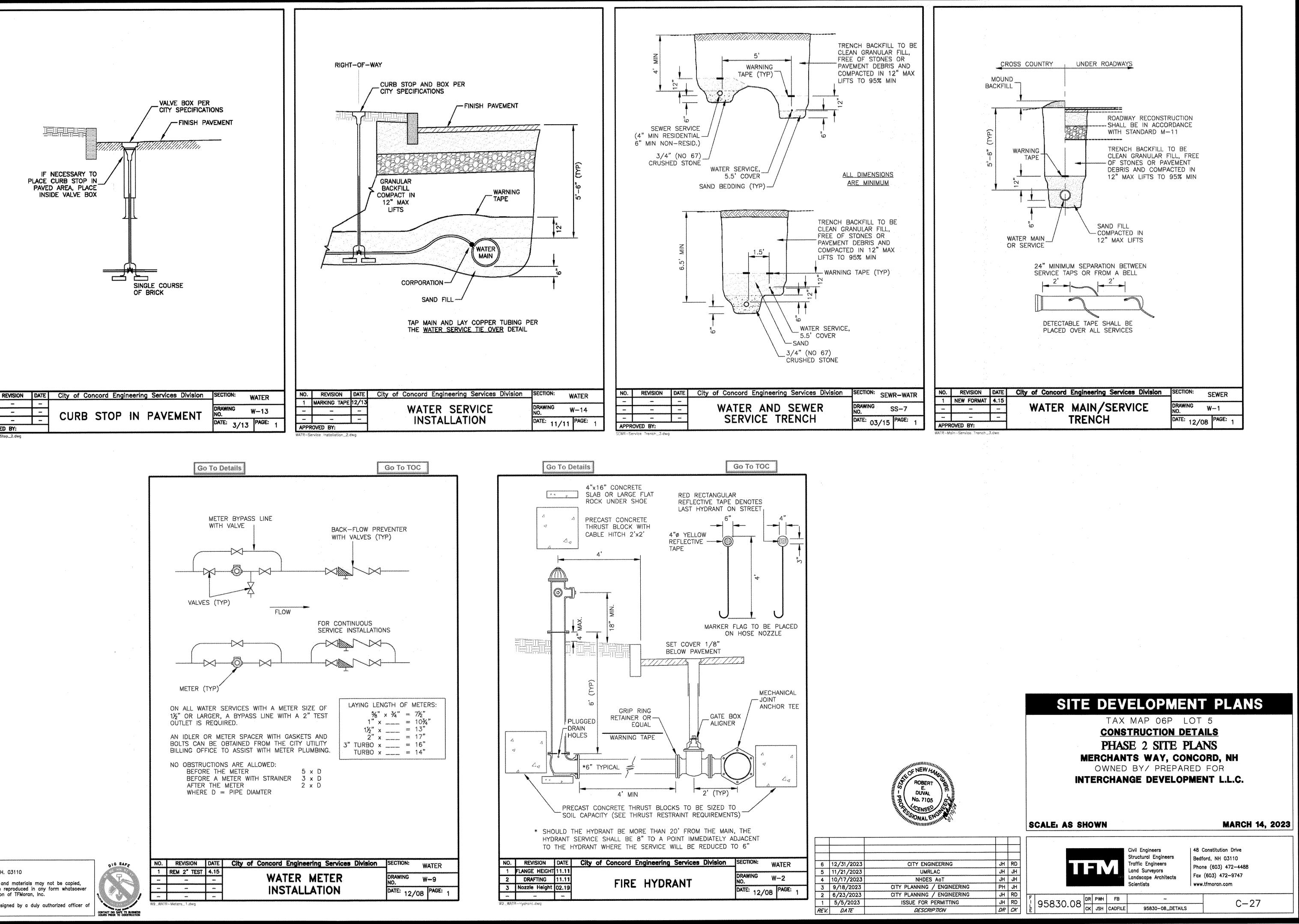
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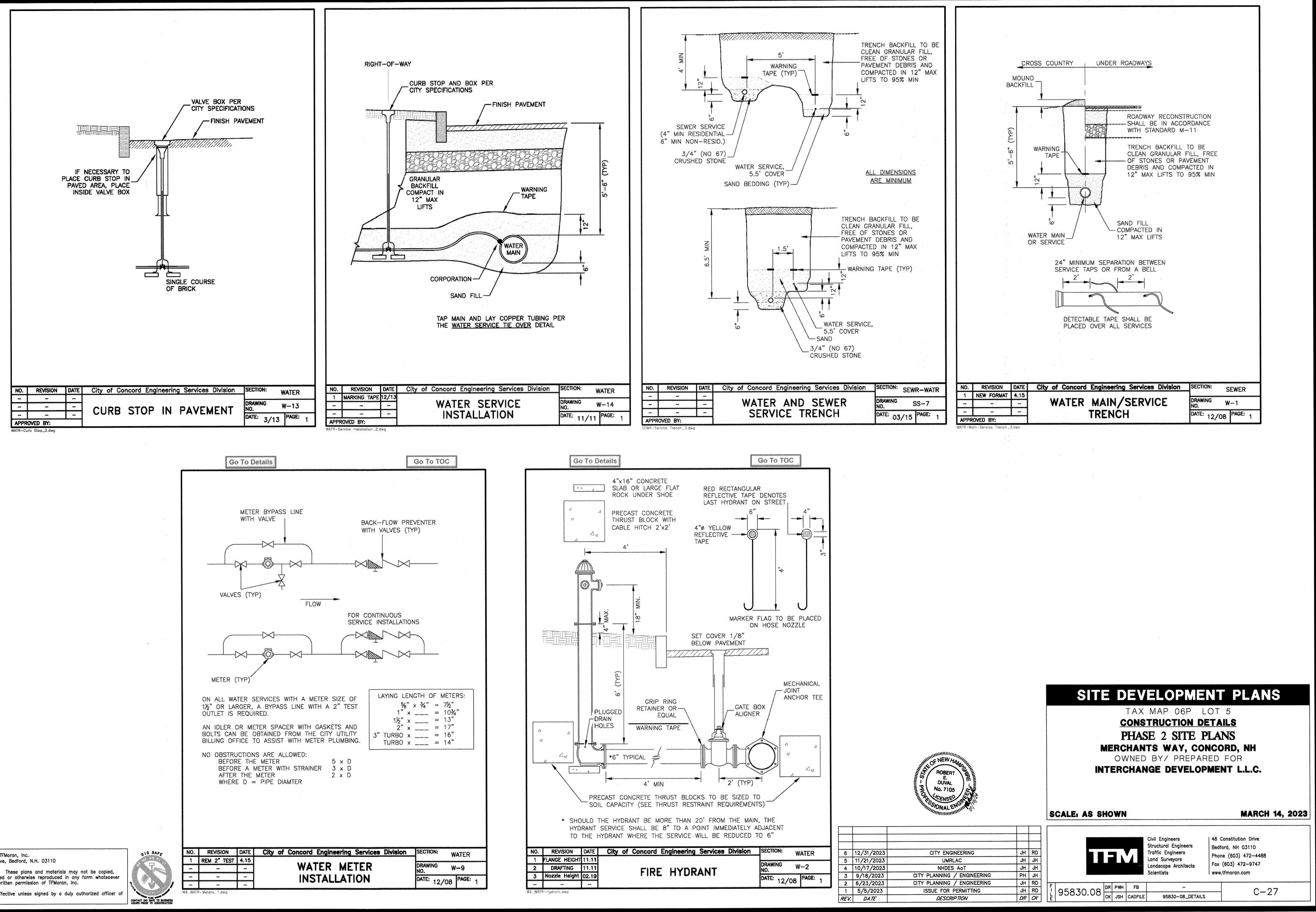


GRASS PANE	Image: State of the state
	FINISH SURFACE AND TOLERANCES FOR VERTICAL GRANITE CU
EXAMPLE 4: SINGLE RAMP ON TANGENT; NARROW GRASS PANEL	AREA FINISH SURFACE TOP 5" WIDE OR AS OTHERWISE SHOWN, SAWN TRUE PLANE. FRONT AND BACK ARRIS LINES PITCHED STRAIGHT AND
B B B	PARALLEL. FRONT_FACE RIGHT_ANGLE_TO_TOP, APPROXIMATELY_TRUE_PLANE. NO DRILL_HOLES_SHOWING_IN_TOP_10"
LEVEL LANDING WITH DETECTABLE	BACK FACE EXPOSED PLANE PARALLEL WITH FRONT FACE. STRAIGHT SPLIT TO 1½" BELOW EXPOSED SURFACE. NO LARGER THAN ¼" SEGMENT OF DRILL HOLES SHOWING IN ARRIS LINES.
WARNING PANEL. 2.0% MAX SLOPE	CONCEALED BELOW 1/2" FROM EXPOSED SURFACE.
	BOTTOM APPROXIMATELY PARALLEL TO TOP. MINIMUM WIDTH: 3"
	ENDS EXPOSED PORTION SQUARE WITH PLANES OF TOP AND FACE
	JOINTS EXPOSED OPTIMUM WIDTH: 1"
	CONCEALED TO BREAK BACK NO MORE THAN 4"
DATE City of Concord Engineering Services Division SECTION: SITE/STREET	NO. REVISION DATE City of Concord Engineering Services Division
- SIDEWALK RAMP TYPE 6, DRAWING CR-9	2 SAWCUT 5.19 VEDTICAL ODANUTE OUDD

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NO.	REVISION	DATE	City of Concord Engineering Services Divis
1	REM 2" TEST	4.15	
-		s:44%	WATER METER
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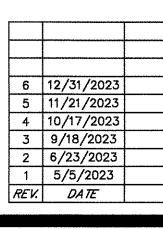


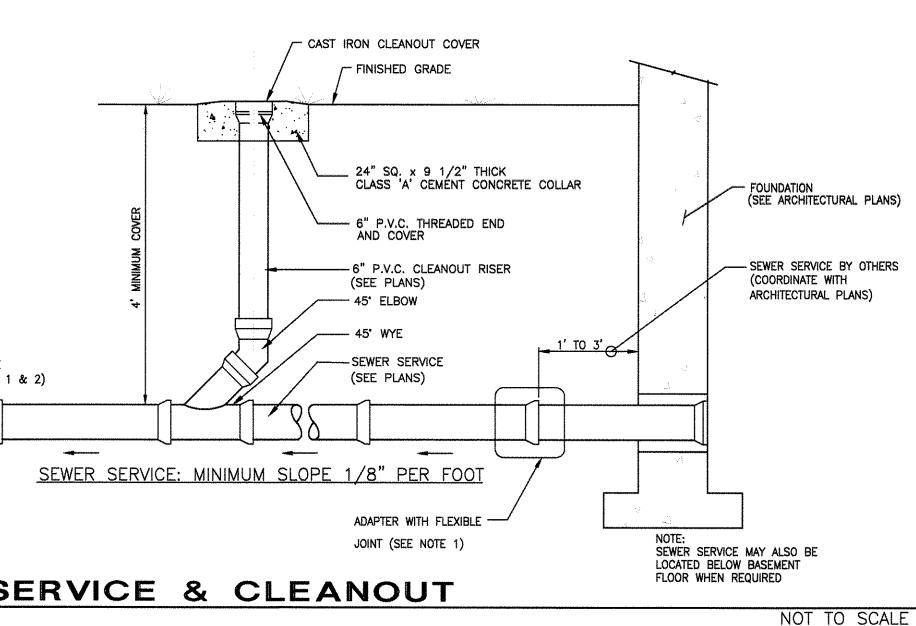
1) MINIMUM SIZE PIPE FOR SERVICE SHALL BE SIX (6) INCHES.		
2) PIPE AND JOINT MATERIALS: A. PLASTIC SEWER PIPE 1. PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:		
ASTM GENERIC PIPE SIZES STANDARDS MATERIAL APPROVED		
D3034 *PVC (SOLID WALL) 8" THROUGH 15" (SDR 35) F679 PVC (SOLID WALL) 18" THROUGH 27" (T-1 & T-2)		
F789PVC (SOLID WALL)4" THROUGH 18" (T-1 TO T-3)F794PVC (RIBBED WALL)8" THROUGH 36"D2680*ABS (COMPOSITES WALL)8" THROUGH 15"		
*PVC: POLY VINYL CHLORIDE *ABS: ACRYLONITRILE—BUTADIENE—STYRENE		
2. JOINTS SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL CONFORMING TO ASTM D-3212 & 214 AND SHALL BE PUSH-ON, BELL AND SPIGOT TYPE.	CROSS COUNTRY	Ļ
ABS TRUSS PIPE AND FITTINGS SHALL CONFORM TO ASTM D-2680, POLYMER COMPOUNDING SHALL BE TO ASTM D-1788 (CLASS 322).	MOUND BACKFILL	
JOINTS FOR ABS TRUSS PIPE SHALL BE CHEMICAL WELDED COUPLINGS TYPE SC IN ACCORDANCE WITH ASTM D-2680, FORMING A CHEMICAL WELDED JOINT.		
B. DUCTILE-IRON PIPE, FITTINGS AND JOINTS. 1. DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING	S	
STANDARDS OF THE UNITED STATES OF AMERICA STANDARDS INSTITUTE: A21.50 THICKNESS DESIGN OF DUCTILE IRON PIPE AND WITH ASTM A-536 DUCTILE IRON CASTINGS.	36"	ZZ.
A21.51 DUCTILE IRON PIPE, CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS FOR WATER OR OTHER LIQUIDS.	L C C	
2. JOINTS SHALL BE OF THE MECHANICAL OR PUSH-ON TYPE. JOINTS AND GASKETS SHALL CONFORM TO: A21.11 RUBBER GASKETS JOINTS FOR CAST IRON PRESSURE PIPE & FITTINGS	N TR N TR N N	
3) DAMAGED PIPE SHALL BE REJECTED AND REMOVED FROM THE JOB SITE.		MAX
4) JOINTS SHALL BE DEPENDENT UPON A NEOPRENE OR ELASTOMERIC GASKET FOR WATER- TIGHTNESS. ALL JOINTS SHALL BE PROPERLY MATCHED WITH THE PIPE MATERIALS USED. WHERE DIFFERING MATERIALS ARE TO BE CONNECTED, AS AT THE STREET SEWER WYE OR AT THE FOUNDATION WALL, APPROPRIATE MANUFACTURED ADAPTERS SHALL BE USED.		
5) TEES AND WYES: WHERE A TEE OR WYE IS NOT AVAILABLE IN THE EXISTING STREET SEWER, AN APPROPRIATE CONNECTION SHALL BE MADE, FOLLOWING MANUFACTURERS' INSTRUCTIONS USING A BOLTED, CLAMPED OR EPOXY-CEMENTED SADDLE TAPPED INTO A SMOOTHLY DRILLED OR SAWN	66 [™] 12 [™]	
OPENING IN THE SEWER. THE PRACTICE OF BREAKING AN OPENING WITH A SLEDGE HAMMER, STUFFING CLOTH OR OTHER SUCH MATERIAL AROUND THE JOINT, OR APPLYING MORTAR TO HOLD THE CONNECTION, AND ANY OTHER SIMILAR CRUDE PRACTICES OR INEPT OR HASTY IMPROVISATIONS WILL NOT BE PERMITTED. THE CONNECTION SHALL BE CONCRETE ENCASED AS SHOWN IN THE DETAIL UP TO AND INCLUDING 15" DIAMETER.	SEWER MAIN (8" MIN, 15" MAX) OR SEWER SERVICE	
6) SEWER SERVICE INSTALLATION: THE PIPE SHALL BE HANDLED, PLACED AND JOINTED IN ACCORDANCE WITH INSTALLATION GUIDES OF THE APPROPRIATE MANUFACTURER. IT SHALL BE		
CAREFULLY BEDDED ON A 4 INCH LAYER OF CRUSHED STONE AND/OR GRAVEL AS SPECIFIED IN NOTE 10. BEDDING AND RE-FILL FOR DEPTH OF 12 INCHES ABOVE THE TOP OF THE PIPE SHALL BE CAREFULLY AND THOROUGHLY TAMPED BY HAND OR WITH APPROPRIATE MECHANICAL DEVICES.	· · · · · · · ·	
THE PIPE SHALL BE LAID AT A CONTINUOUS AND CONSTANT GRADE FROM THE STREET SEWER CONNECTION TO THE FOUNDATION AT A GRADE OF NOT LESS THAN 1/4" INCH PER FOOT. PIPE JOINTS MUST BE MADE UNDER DRY CONDITIONS. IF WATER IS PRESENT, ALL NECESSARY STEPS SHALL BE TAKEN TO DEWATER THE TRENCH.		
7) <u>ENVWQ 704.06 GRAVITY SEWER PIPE TESTING.</u> (A) ALL NEW GRAVITY SEWERS SHALL BE TESTED FOR WATER TIGHTNESS BY THE USE OF LOW-PRESSURE AIR TESTS.		
(B) LOW-PRESSURE AIR TESTING SHALL BE IN CONFORMANCE WITH THE FOLLOWING TESTING STANDARDS IN EFFECT AT THE TIME THE TEST IS CONDUCTED:	NO. REVISION DATE City of Concord Engine	ering
(1) ASTM F1417 "STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW-PRESSURE AIR", AVAILABLE AS NOTED IN APPENDIX D; OR (2) UNI-BELL PVC PIPE ASSOCIATION UNI-B-6, "LOW-PRESSURE AIR TESTING OF INSTALLED SEWER PIPE", AVAILABLE AS	SANITARY	
NOTED IN APPENDIX D. (C) ALL NEW GRAVITY SEWERS SHALL BE: (1) CLEANED AND VISUALLY INSPECTED USING A LAMP TEST AND BY INTRODUCING WATER TO DETERMINE THAT THERE IS NO STANDING WATER IN THE SEWER; AND	APPROVED BY: MAIN/SERVI	CE
(2) TRUE TO LINE AND GRADE FOLLOWING INSTALLATION AND PRIOR TO USE. (D) ALL PLASTIC SEWER PIPE SHALL BE VISUALLY INSPECTED AND DEFLECTION TESTED NOT LESS THAN 30 DAYS NOR MORE		
 (b) ALL FLASHO SLWERT THE SHALL BE VISIONEL INSTALLATION. (E) THE MAXIMUM ALLOWABLE DEFLECTION OF FLEXIBLE SEWER PIPE SHALL BE 5% PERCENT OF AVERAGE INSIDE DIAMETER. A RIGID BALL OR MANDREL WITH A DIAMETER OF AT LEAST 95% OF THE AVERAGE INSIDE PIPE DIAMETER SHALL BE USED FOR TESTING PIPE DEFLECTION. THE DEFLECTION TEST SHALL BE CONDUCTED WITHOUT MECHANICAL PULLING DEVICES. 	<u>NOTES:</u> 1) JOINTS SHALL BE DEPENDENT TIGHTNESS. ALL JOINTS SHAI DIFFERING MATERIALS ARE T	L BE F
 8) ILLEGAL CONNECTIONS: NOTHING BUT SANITARY WASTE FLOW FROM TOILETS, SINKS, LAUNDRY ETC. SHALL BE PERMITTED. ROOF LEADERS, FOOTING DRAINS, SUMP PUMPS OR OTHER SIMILAR CONNECTIONS CARRYING RAIN WATER, DRAINAGE OR GROUND WATER SHALL NOT BE PERMITTED. 9) WATER SERVICE SHALL NOT BE LAID IN SAME TRENCH AS SEWER SERVICE. 	WALL, APPROPRIATE MANUFA 2) TEES AND WYES: WHERE A TE APPROPRIATE CONNECTION S BOLTED, CLAMPED OR EPOXY	E OR 1 HALL E '-CEME
10) BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATERIAL AND MEETING ASTM C33-67.	OPENING IN THE SEWER. THE CLOTH OR OTHER SUCH MAT CONNECTION, AND ANY OTHE NOT BE PERMITTED. THE CON	ERIAL R SIMII INECTIO
100% PASSING 1 INCH SCREEN 90%-100% PASSING 3/4 INCH SCREEN 20%-55% PASSING 3/8 INCH SCREEN 0%-10% PASSING #4 SIEVE 0%-5% PASSING #8 SIEVE	TO AND INCLUDING 15" DIAM	ETER.
WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, SCREENED GRAVEL OR CRUSHED STONE 1/2 INCH TO 1 1/2 INCH SHALL BE USED.		
 11) LOCATION: THE LOCATION OF THE TEE OR WYE SHALL BE RECORDED AND FILED IN THE MUNICIPAL RECORDS. IN ADDITION, A FERROUS METAL ROD OR PIPE SHALL BE PLACED OVER THE TEE OR WYE AS DESCRIBED IN THE TYPICAL "CHIMNEY" DETAIL, TO AID IN LOCATING THE BURIED PIPE WITH A DIP NEEDLE OR PIPEFINDER. 		
12) CHIMNEYS: IF VERTICAL DROP INTO SEWER IS GREATER THAN 4 FEET, A CHIMNEY SHALL BE CONSTRUCTED FOR THE SEWER CONNECTION. CHIMNEY INSTALLATION AS RECOMMENDED BY THE PIPE MANUFACTURER MAY BE USED IF APPROVED BY THE ENGINEER.		ER
13) THE PIPE SAND BLANKET MATERIAL SHALL BE GRADED SAND FREE FROM ORGANIC MATERIALS, GRADED SUCH THAT 100 PERCENT PASSES A ½-INCH SIEVE AND A MAXIMUM OF 15 PERCENT PASSES A #200 SIEVE.		UN COVER
14) TRENCH BACKFILL MATERIAL IN ROADWAY LOCATIONS SHALL BE NATURAL MATERIALS EXCAVATED FROM THE TRENCH		MINIMUM
DURING CONSTRUCTION, EXCLUDING: (1) DEBRIS; (2) PIECES OF PAVEMENT;		•†
(3) ORGANIC MATTER; (4) TOP SOIL; (5) WET OR SOFT MUCK;	WYE OR TEE	
(6) PEAT OR CLAY; (7) EXCAVATED LEDGE MATERIAL;	(SEE NOTES 1 & 2)	
 (8) ROCKS OVER 6 INCHES IN THE LARGEST DIMENSION; AND (9) ANY MATERIAL NOT APPROVED BY THE ENGINEER. (5) FOR EXCAVATION IN LEDGE EXCAVATION SUBJLE EXCEND AT LEAST 18th DELOW THE ROTTON OF THE OFFICE DEP 		
15) FOR EXCAVATION IN LEDGE, EXCAVATION SHALL EXTEND AT LEAST 12" BELOW THE BOTTOM OF THE SEWER PIPE PER ENVWQ 704.11 (0).	SEWER SE	<u>RVIC:</u>
	SEWER SERVIC	
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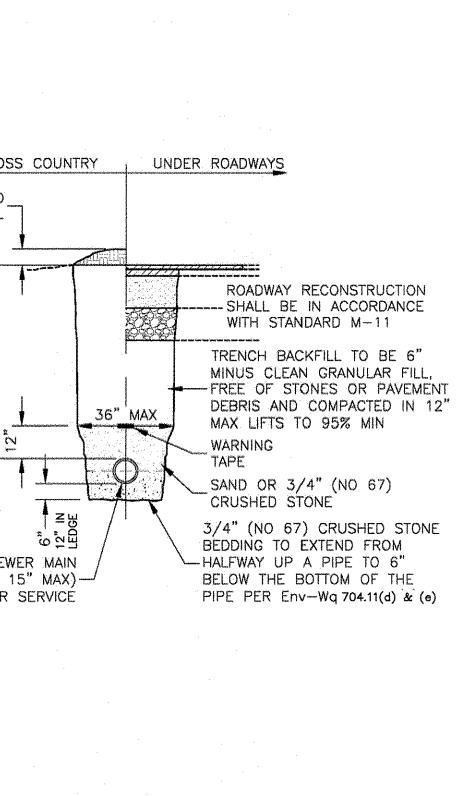


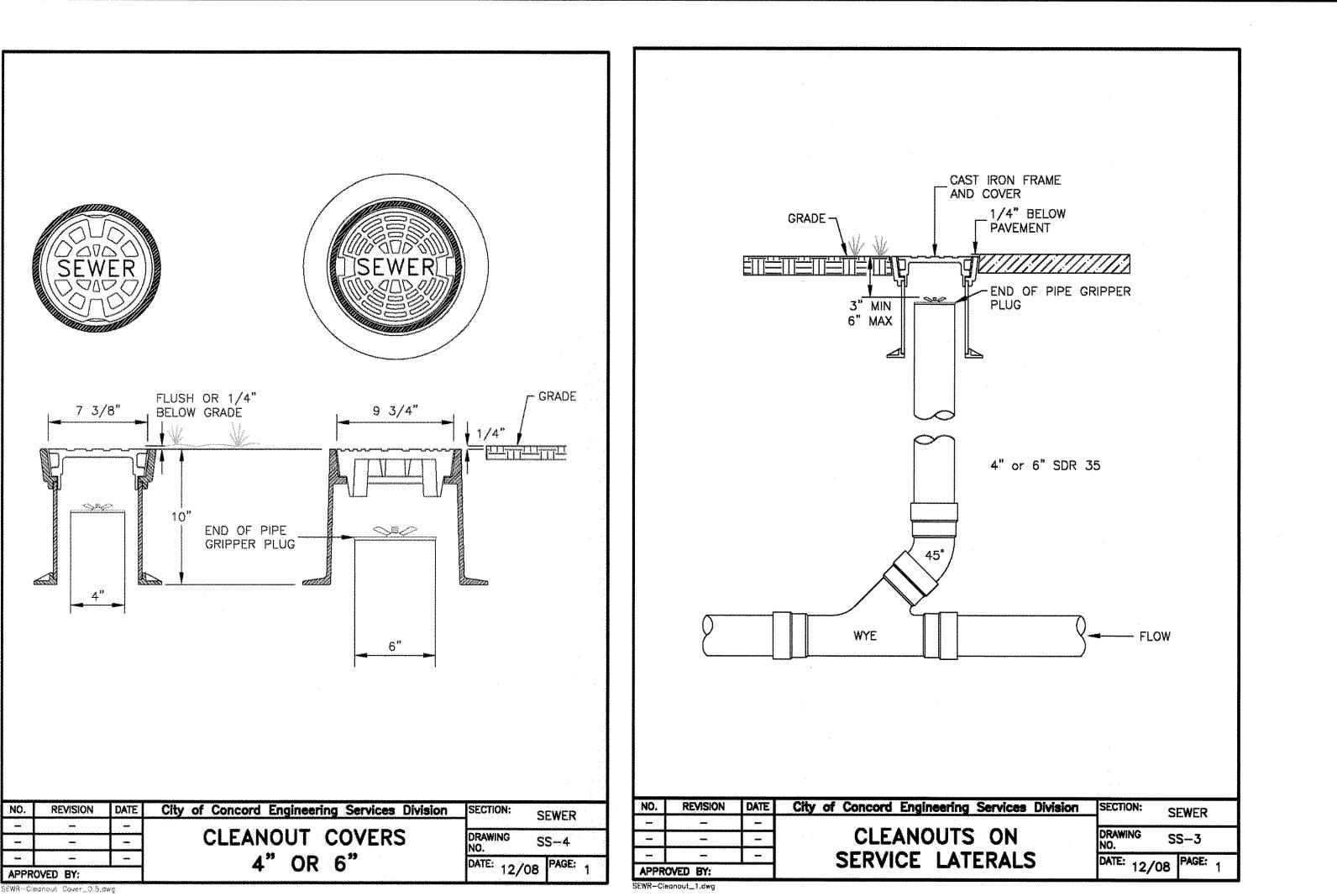
ING MATERIALS ARE TO BE CONNECTED, AS AT THE STREET SEWER WYE OR AT THE FOUNDATION APPROPRIATE MANUFACTURED ADAPTERS SHALL BE USED. ND WYES: WHERE A TEE OR WYE IS NOT AVAILABLE IN THE EXISTING STREET SEWER, AN DPRIATE CONNECTION SHALL BE MADE, FOLLOWING MANUFACTURERS' INSTRUCTIONS USING A CLAMPED OR EPOXY-CEMENTED SADDLE TAPPED INTO A SMOOTHLY DRILLED OR SAWN NG IN THE SEWER. THE PRACTICE OF BREAKING AN OPENING WITH A SLEDGE HAMMER, STUFFING I OR OTHER SUCH MATERIAL AROUND THE JOINT, OR APPLYING MORTAR TO HOLD THE CTION, AND ANY OTHER SIMILAR CRUDE PRACTICES OR INEPT OR HASTY IMPROVISATIONS WILL E PERMITTED. THE CONNECTION SHALL BE CONCRETE ENCASED AS SHOWN IN THE DETAIL UP

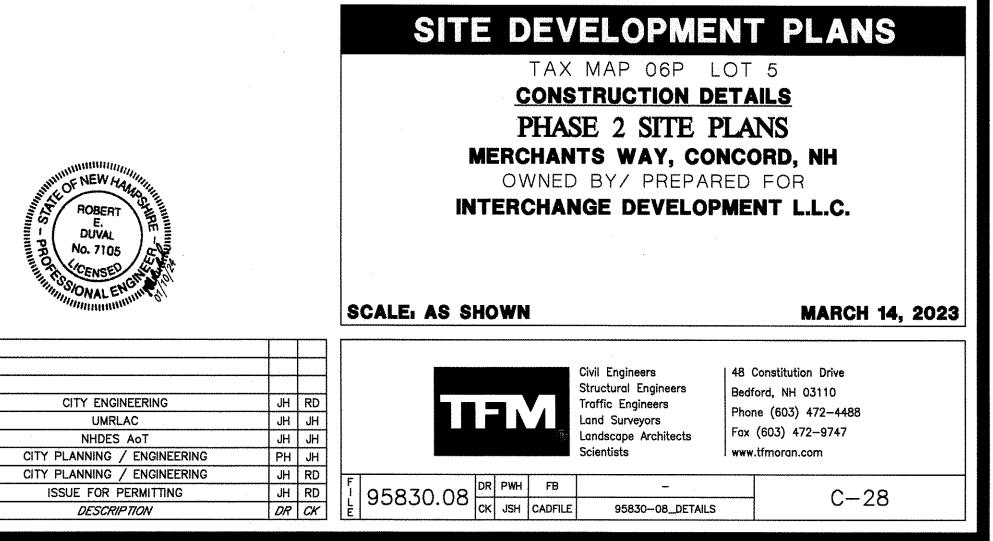
SHALL BE DEPENDENT UPON A NEOPRENE OR ELASTOMERIC GASKET FOR WATER-IESS. ALL JOINTS SHALL BE PROPERLY MATCHED WITH THE PIPE MATERIALS USED. WHERE

Concord Engineering Services Division SECTION: SEWER SANITARY SEWER DRAWING NO. SM-1 AIN/SERVICE TRENCH DATE: 08/13 PAGE: 1

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	SEWER
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			4" OR 6"	DATE: 10 /	DA PAGE:







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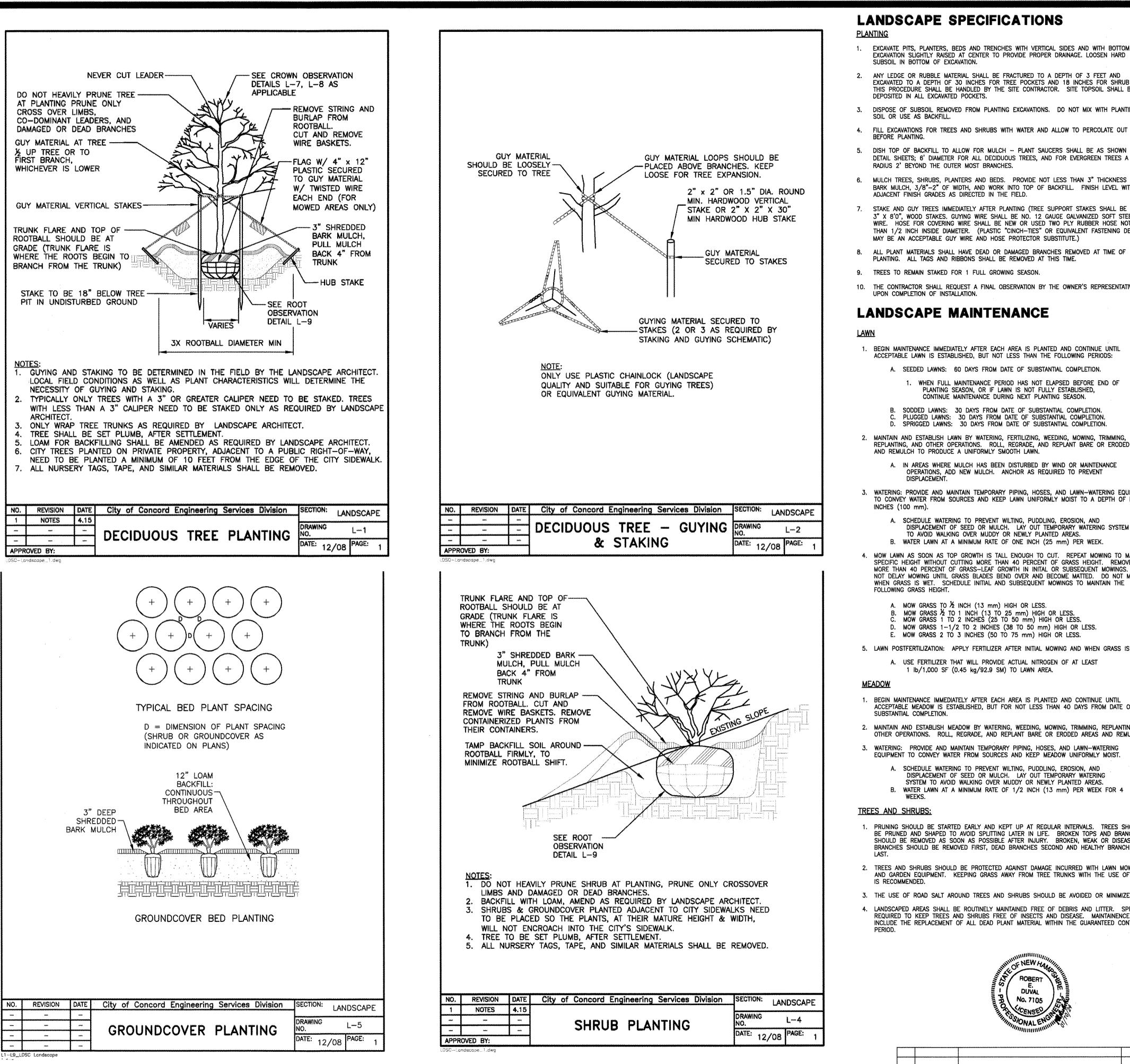
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	saate	****	GROUNDCOVER PLANTING	DRAWING NO.
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APPR	OVED BY:								2/08

7.	ALL NURS	ERY TAGS	TAPE,	AND SIN	IILAR MATERIA	ALS SHALL	BE REMO	OVED.	
							a Participa da das tantas tantas da das basis da ser a cara a		
NO.	REVISION	DATE	City of	Concord	Engineering	Services [Division	SECTION:	LA

5.	LOAM FOR BACKFILLING SHALL BE AMENDED AS REQUIRED BY LANDSCAPE AR
6.	CITY TREES PLANTED ON PRIVATE PROPERTY, ADJACENT TO A PUBLIC RIGHT-
	NEED TO BE PLANTED A MINIMUM OF 10 FEET FROM THE EDGE OF THE CITY
7.	ALL NURSERY TAGS, TAPE, AND SIMILAR MATERIALS SHALL BE REMOVED.

3. ONLY WRAP TREE TRUNKS AS REQUIRED BY LANDSCAPE ARCHITECT. 4. TREE SHALL BE SET PLUMB, AFTER SETTLEMENT.

NOTES

DO NOT HEAVILY PRUNE TREE -----AT PLANTING PRUNE ONLY CROSS OVER LIMBS. CO-DOMINANT LEADERS, AND DAMAGED OR DEAD BRANCHES GUY MATERIAL AT TREE -1/2 UP TREE OR TO FIRST BRANCH, WHICHEVER IS LOWER GUY MATERIAL VERTICAL STAKES-TRUNK FLARE AND TOP OF -ROOTBALL SHOULD BE AT GRADE (TRUNK FLARE IS WHERE THE ROOTS BEGIN TO BRANCH FROM THE TRUNK) STAKE TO BE 18" BELOW TREE PIT IN UNDISTURBED GROUND

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1. EXCAVATE PITS, PLANTERS, BEDS AND TRENCHES WITH VERTICAL SIDES AND WITH BOTTOM OF EXCAVATION SLIGHTLY RAISED AT CENTER TO PROVIDE PROPER DRAINAGE. LOOSEN HARD

2. ANY LEDGE OR RUBBLE MATERIAL SHALL BE FRACTURED TO A DEPTH OF 3 FEET AND EXCAVATED TO A DEPTH OF 30 INCHES FOR TREE POCKETS AND 18 INCHES FOR SHRUB BEDS. THIS PROCEDURE SHALL BE HANDLED BY THE SITE CONTRACTOR. SITE TOPSOIL SHALL BE

3. DISPOSE OF SUBSOIL REMOVED FROM PLANTING EXCAVATIONS. DO NOT MIX WITH PLANTING

5. DISH TOP OF BACKFILL TO ALLOW FOR MULCH -- PLANT SAUCERS SHALL BE AS SHOWN ON DETAIL SHEETS: 6' DIAMETER FOR ALL DECIDUOUS TREES, AND FOR EVERGREEN TREES A

6. MULCH TREES, SHRUBS, PLANTERS AND BEDS. PROVIDE NOT LESS THAN 3" THICKNESS OF BARK MULCH, 3/8"-2" OF WIDTH, AND WORK INTO TOP OF BACKFILL. FINISH LEVEL WITH

7. STAKE AND GUY TREES IMMEDIATELY AFTER PLANTING (TREE SUPPORT STAKES SHALL BE 2" X 3" X 8'0", WOOD STAKES. GUYING WIRE SHALL BE NO. 12 GAUGE GALVANIZED SOFT STEEL WIRE. HOSE FOR COVERING WIRE SHALL BE NEW OR USED TWO PLY RUBBER HOSE NOT LESS THAN 1/2 INCH INSIDE DIAMETER. (PLASTIC "CINCH-TIES" OR EQUIVALENT FASTENING DEVICE MAY BE AN ACCEPTABLE GUY WIRE AND HOSE PROTECTOR SUBSTITUTE.)

8. ALL PLANT MATERIALS SHALL HAVE DEAD OR DAMAGED BRANCHES REMOVED AT TIME OF PLANTING. ALL TAGS AND RIBBONS SHALL BE REMOVED AT THIS TIME.

10. THE CONTRACTOR SHALL REQUEST A FINAL OBSERVATION BY THE OWNER'S REPRESENTATIVE

1. BEGIN MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL ACCEPTABLE LAWN IS ESTABLISHED, BUT NOT LESS THAN THE FOLLOWING PERIODS:

> A. SEEDED LAWNS: 60 DAYS FROM DATE OF SUBSTANTIAL COMPLETION. 1. WHEN FULL MAINTENANCE PERIOD HAS NOT ELAPSED BEFORE END OF PLANTING SEASON, OR IF LAWN IS NOT FULLY ESTABLISHED,

CONTINUE MAINTENANCE DURING NEXT PLANTING SEASON. SODDED LAWNS: 30 DAYS FROM DATE OF SUBSTANTIAL COMPLETION. PLUGGED LAWNS: 30 DAYS FROM DATE OF SUBSTANTIAL COMPLETION. D. SPRIGGED LAWNS: 30 DAYS FROM DATE OF SUBSTANTIAL COMPLETION.

2. MAINTAIN AND ESTABLISH LAWN BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING REPLANTING. AND OTHER OPERATIONS. ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS

> A. IN AREAS WHERE MULCH HAS BEEN DISTURBED BY WIND OR MAINTENANCE OPERATIONS, ADD NEW MULCH. ANCHOR AS REQUIRED TO PREVENT

3. WATERING: PROVIDE AND MAINTAIN TEMPORARY PIPING, HOSES, AND LAWN-WATERING EQUIPMENT TO CONVEY WATER FROM SOURCES AND KEEP LAWN UNIFORMLY MOIST TO A DEPTH OF FOUR

A. SCHEDULE WATERING TO PREVENT WILTING, PUDDLING, EROSION, AND DISPLACEMENT OF SEED OR MULCH. LAY OUT TEMPORARY WATERING SYSTEM TO AVOID WALKING OVER MUDDY OR NEWLY PLANTED AREAS. B. WATER LAWN AT A MINIMUM RATE OF ONE INCH (25 mm) PER WEEK.

4. MOW LAWN AS SOON AS TOP GROWTH IS TALL ENOUGH TO CUT. REPEAT MOWING TO MAINTAIN SPECIFIC HEIGHT WITHOUT CUTTING MORE THAN 40 PERCENT OF GRASS HEIGHT. REMOVE NO MORE THAN 40 PERCENT OF GRASS-LEAF GROWTH IN INITAL OR SUBSEQUENT MOWINGS. DO NOT DELAY MOWING UNTIL GRASS BLADES BEND OVER AND BECOME MATTED. DO NOT MOW WHEN GRASS IS WET. SCHEDULE INITIAL AND SUBSEQUENT MOWINGS TO MAINTAIN THE

MOW GRASS 1/2 TO 1 INCH (13 TO 25 mm) HIGH OR LESS. MOW GRASS 1 TO 2 INCHES (25 TO 50 mm) HIGH OR LESS. D. MOW GRASS 1-1/2 TO 2 INCHES (38 TO 50 mm) HIGH OR LESS.

5. LAWN POSTFERTILIZATION: APPLY FERTILIZER AFTER INITIAL MOWING AND WHEN GRASS IS DRY. A. USE FERTILIZER THAT WILL PROVIDE ACTUAL NITROGEN OF AT LEAST

1. BEGIN MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL ACCEPTABLE MEADOW IS ESTABLISHED, BUT FOR NOT LESS THAN 40 DAYS FROM DATE OF

2. MAINTAIN AND ESTABLISH MEADOW BY WATERING, WEEDING, MOWING, TRIMMING, REPLANTING, AND OTHER OPERATIONS. ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS AND REMULCH.

EQUIPMENT TO CONVEY WATER FROM SOURCES AND KEEP MEADOW UNIFORMLY MOIST. A. SCHEDULE WATERING TO PREVENT WILTING, PUDDLING, EROSION, AND DISPLACEMENT OF SEED OR MULCH. LAY OUT TEMPORARY WATERING SYSTEM TO AVOID WALKING OVER MUDDY OR NEWLY PLANTED AREAS.

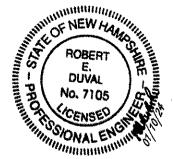
B. WATER LAWN AT A MINIMUM RATE OF 1/2 INCH (13 mm) PER WEEK FOR 4

1. PRUNING SHOULD BE STARTED EARLY AND KEPT UP AT REGULAR INTERVALS. TREES SHOULD BE PRUNED AND SHAPED TO AVOID SPLITTING LATER IN LIFE. BROKEN TOPS AND BRANCHES SHOULD BE REMOVED AS SOON AS POSSIBLE AFTER INJURY. BROKEN, WEAK OR DISEASED BRANCHES SHOULD BE REMOVED FIRST, DEAD BRANCHES SECOND AND HEALTHY BRANCHES

2. TREES AND SHRUBS SHOULD BE PROTECTED AGAINST DAMAGE INCURRED WITH LAWN MOWERS AND GARDEN EQUIPMENT. KEEPING GRASS AWAY FROM TREE TRUNKS WITH THE USE OF MULCH

3. THE USE OF ROAD SALT AROUND TREES AND SHRUBS SHOULD BE AVOIDED OR MINIMIZED. 4. LANDSCAPED AREAS SHALL BE ROUTINELY MAINTAINED FREE OF DEBRIS AND LITTER. SPRAY AS

REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. MAINTAINENCE SHALL INCLUDE THE REPLACEMENT OF ALL DEAD PLANT MATERIAL WITHIN THE GUARANTEED CONTRACT



THE SOMAL ENGINE				
	CITY ENGINEERING			
	UMRLAC			
******	NHDES AOT			

CITY PLANNING / ENGINEERING

CITY PLANNING / ENGINEERING

ISSUE FOR PERMITTING

DESCRIPTION

LANDSCAPE SPECIFICATIONS

SITE AND SOIL PREPARATION

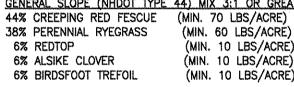
- 1. WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR LEDGE, NOTIFY LANDSCAPE ARCHITECT/ENGINEER BEFORE PLANTING
- 2. ALL DISTURBED AREAS & PLANTING AREAS, INCLUDING AREAS TO BE SODDED, SHALL RECEIVE THE FOLLOWING SOIL PREPARATION PRIOR TO PLANTING: A MINIMUM OF 4 INCHES OF LIGHTLY COMPACTED TOPSOIL SHALL BE INSTALLED OVER THE SUBSOIL IF TOPSOIL HAS BEEN REMOVED OR IS NOT PRESENT.
- 3. LOAM SHALL CONSIST OF LOOSE FRIABLE TOPSOIL WITH NO ADMIXTURE OF REFUSE OR MATERIAL TOXIC TO PLANT GROWTH. LOAM SHALL BE FREE FROM STONES, LUMPS, STUMPS, OF SIMILAR OBJECTS LARGER THAN TWO INCHES (2") IN GREATEST DIAMETER, SUBSOIL, ROOTS, AND WEEDS. THE MINIMUM AND MAXIMUM PH VALUE SHALL BE FROM 5.5 TO 7.6. LOAM SHALL CONTAIN A MINIMUM OF THREE PERCENT (3%) AND A MAXIMUM OF TWENTY PERCENT (20%) ORGANIC MATTER AS DETERMINED BY LOSS BY IGNITION. NOT MORE THAN SIXTY-FIVE PERCENT (65%) SHALL PASS A NO. 200 SIEVE AS DETERMINED BY THE WASH TEST IN ACCORDANCE WITH ASTM D1140. IN NO INSTANCE SHALL MORE THAN 20% OF THAT MATERIAL PASSING THE #4 SIEVE CONSIST OF CLAY SIZE PARTICLES.
- 4. NATURAL TOPSOIL NOT CONFORMING TO THE PARAGRAPH ABOVE OR CONTAINING EXCESSIVE AMOUNTS OF CLAY OR SAND SHALL BE TREATED BY THE CONTRACTOR TO MEET THOSE REQUIREMENTS.
- 5. SUBMIT TEST RESULTS OBTAINED FROM SOURCE TO ENGINEER/LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL, PRIOR TO SPREADING OPERATIONS.
- 6. APPROVAL BY THE ENGINEER/LANDSCAPE ARCHITECT TO USE THE TOPSOIL WILL DEPEND UPON THE RESULTS OF THE SOIL TESTS.
- 7. THE BURDEN OF PROOF OF SOIL AMENDMENT INSTALLATION RESTS WITH THE CONTRACTOR. SOIL TESTS MAY BE REQUIRED AT THE CONTRACTOR'S EXPENSE IN ORDER TO CONFIRM AMENDMENT INSTALLATION.

SEEDING

- 1. ROUGH GRADING SHALL BE COMPLETED PRIOR TO THE START OF PLANTING IN ANY GIVEN AREA OF THE PROJECT SITE.
- 2. SEEDING SHALL BE DONE BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 15, EXCEPT FOR RESEEDING OF BARE SPOTS AND MAINTENANCE. ALL DISTURBED AREAS NOT COVERED BY BUILDINGS, PAVING OR AREAS THAT HAVE NOT BEEN OTHERWISE DEVELOPED SHALL BE SEEDED OR SODDED. SLOPES GREATER THAN 3:1 SHALL BE PROTECTED WITH AN EROSION CONTROL BLANKET. AFTER OCTOBER 15 DISTURBED SOILS SHALL BE PROTECTED IN ACCORDANCE WITH THE WINTER CONSTRUCTION NOTES.

ACCEPTABLE SEED MIXES ARE AS FOLLOWS:

33% CREEPING RED FESCUE	(MIN. 66 LBS/ACRE)
42% PERENNIAL RYEGRASS	(MIN. 84 LBS/ACRE)
21% KENTÜCKY BLUEGRASS	(MIN. 42 LBS/ACRE)
4% REDTOP	(MIN. 8 LBS/ACRE)
WILDFLOWER SLOPE (NHDOT TY	PE 45) MIX 3:1 OR GREATER SLOPES (MIN. 160 LBS/ACRE)
38% CREEPING RED FESCUE	(MIN. 60 LBS/ACRE)
32% PERENNIAL RYEGRASS	(MIN. 51 LBS/ACRE)
5% REDTOP	(MIN. 8 LBS/ACRE)
5% ALSIKE CLOVER	(MIN. 8 LBS/ACRE)
5% BIRDSFOOT TREFOIL	(MIN. 8 LBS/ACRE)
3% LANCE-LEAF COREOPSIS	(MIN. 3 LBS/ACRE)
3% OXEYE DAISY	(MIN. 3 LBS/ACRE)
3% BUTTERFLY WEED	(MIN. 3 LBS/ACRE)
3% BLACKEYED SUSAN	(MIN. 3 LBS/ACRE)
3% WILD LUPINE	(MIN. 3 LBS/ACRE)



SITE	DEVE	LOPM	ENT	PLA

TAX MAP 06P LOT 5 **CONSTRUCTION DETAILS** PHASE 2 SITE PLANS MERCHANTS WAY, CONCORD, NH OWNED BY/ PREPARED FOR INTERCHANGE DEVELOPMENT L.L.C.

SCALE, AS SHOWN

JH RD

JH JH

JH JH

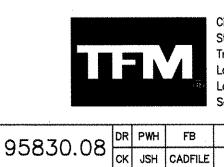
PH JH JH RD

JH RD

DR CK

MARCH 14, 2023

NS



Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists

Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com

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-95830-08_DETAILS

48 Constitution Drive

CONSTRUCTION SEQUENCE NOTES

- 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- 2. CUT AND CLEAR TREES WITHIN AREA OF DISTURBANCE UNLESS OTHERWISE NOTED.
- 3. CONSTRUCT TEMPORARY AND PERMANENT EROSION CONTROL FACILITIES PRIOR TO ANY EARTH MOVING OPERATION.
- 4. ROUGH GRADE SITE OR PHASED WORK AREA. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER GRADING. ALL DISTURBED AREAS SHALL BE STABILIZED NO LATER THAN 72 HOURS AFTER CONSTRUCTION ACTIVITY CEASES. IF EARTHWORK TEMPORARILY CEASES ON A PORTION OF OR THE ENTIRE SITE, AND WILL NOT RESUME WITHIN 21 DAYS, THE AREA SHALL BE STABILIZED.
- AN AREA SHALL BE CONSIDERED STABILIZED IF:
- A) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED; B) A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
- C) A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED, OR D) EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- , CONSTRUCT CULVERTS, SUBSURFACE INFILTRATION BASINS, WET POND AND INFILTRATION BASIN. PLACE HEADWALLS, RIP-RAP AND OTHER DRAINAGE FACILITIES ACCORDING TO PLAN. THE CONTRACTOR SHALL STABILIZE ALL CONTRIBUTING AREAS PRIOR TO DIRECTING FLOW TO THEM.
- 6. INSTALL ALL UNDERGROUND UTILITIES.
- 7. CONSTRUCT BUILDINGS.
- 8. CONSTRUCT PARKING AND FINISH GRADE SITE ACCORDING TO PLAN. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.
- 9. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL MEASURES PERIODICALLY AND IMMEDIATELY AFTER STORM EVENTS.
- 10. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE ALL AREAS ARE STABILIZED WITH A SUITABLE STAND OF GRASS, PAVEMENT OR COMPACTED GRAVELS.
- * REFER TO THE STORM WATER MANAGEMENT PLAN FOR EROSION CONTROL MEASURES AND SPECIFIC INFORMATION.
- **GENERAL NOTES**
- 1. ALL IN PAVEMENT MANHOLES SHALL HAVE RIMS SET TO FINISH GRADE REGARDLESS OF ANY ELEVATIONS OTHERWISE SHOWN
- 2. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA AND SHALL COORDINATE AS NECESSARY WITH THE UTILITY COMPANIES OF SAID UTILITIES. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 3. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY HIS WORK AT ALL TIMES.
- 4. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
- 5. EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE NHDES STANDARDS. THESE DETAILS SERVE AS A GUIDE ONLY.
- 6. REFER TO THE TOWN STANDARD DETAILS, LATEST REVISION, FOR ADDITIONAL INFORMATION AND CRITERIA.
- 7. THE CONTRACTOR SHALL STABILIZE ALL DITCHES, SWALES, AND PONDS PRIOR TO DIRECTING FLOW TO THEM.
- 8. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.

WINTER CONSTRUCTION

- IN ADDITION TO THE OTHER NOTES CONTAINED ON THIS PLAN, THE FOLLOWING MUST BE IMPLEMENTED:
- WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED AS SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- AN AREA WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIER. TEMPORARY MULCH MUST BE APPLIED WITHIN 7 DAYS OF SOIL EXPOSURE OR PRIOR TO ANY STORM
- EVENT, BUT AFTER EVERY WORKDAY IN AREAS WITHIN 100 FEET FROM A PROTECTED NATURAL RESOURCE.
- AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE PERMANENTLY MULCHED THE SAME DAY.
- IN THE EVENT OF A SNOWFALL GREATER THAN 1 INCH (FRESH OR CUMULATIVE), THE SNOW SHALL BE REMOVED FROM THE AREAS DUE TO BE SEEDED AND MULCHED.
- 6. LOAM SHALL BE FREE OF FROZEN CLUMPS BEFORE IT IS APPLIED.
- 7. A DITCH THAT WILL BE CONSTRUCTED DURING THE WINTER MUST BE STABILIZED WITH RIPRAP.

OVERWINTER STABILIZATION

- PERMANENT STABILIZATION CONSISTS OF AT LEAST 85% VEGETATION, PAVEMENT/GRAVEL BASE OR RIPRAP.
- DO NOT EXPOSE SLOPES OR LEAVE SLOPES EXPOSED OVER THE WINTER OR FOR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS FULLY PROTECTED WITH MULCH.
- APPLY HAY MULCH AT TWICE THE STANDARD RATE (150 LBS. PER 1,000 SF). THE MULCH MUST BE THICK ENOUGH SUCH THAT THE GROUND SURFACE WILL NOT BE VISIBLE AND MUST BE ANCHORED.
- USE MULCH AND MULCH NETTING OR AN EROSION CONTROL MULCH BLANKET OR MIX FOR ALL SLOPES GREATER THAN 8% OR OTHER AREAS EXPOSED TO DIRECT WIND.
- INSTALL AN EROSION CONTROL BLANKET IN ALL DRAINAGE WAYS (BOTTOM AND SIDES) WITH A SLOPE GREATER THAN 3%.
- 6. SEE THE VEGETATION MEASURES FOR MORE INFORMATION ON SEEDING DATES AND TYPES.

EROSION CONTROL NOTES

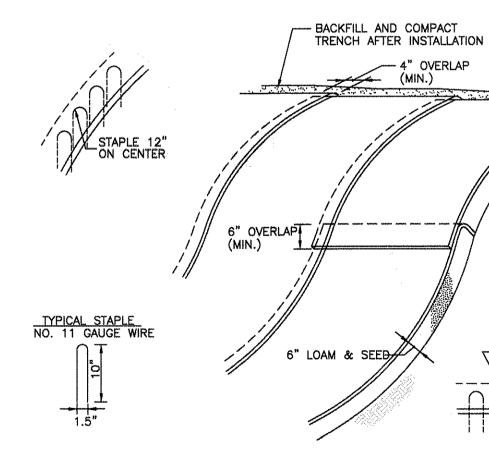
- TO THE MANUFACTURER'S RECOMMENDATIONS.
- SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EVERY RAINFALL.
- 3. EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEREVER POSSIBLE.
- STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING.

TYPICAL LAWN M	IX (MIN. 200	LBS/ACRE);
33% CREEPING R	ED FESCUE	(MIN, 66 LBS/ACRE)
42% PERENNIAL	RYEGRASS	(MIN. 84 LBS/ACRE
21% KENTUCKY E	BLUEGRASS	(MIN. 42 LBS/ACRE)
4% REDTOP		(MIN. 8 LBS/ACRE)

TEMPORARY LAWN MIX: (MIN. 47 LBS/ACRE) 100% ANNUAL RYE

WILD	FLOWER SLOPE (NHDOT TY	PE 45) MIX 3:1 OR GR
38%	CREEPING RED FESCUE	(MIN. 60 LBS/ACRE)
32%	PERENNIAL RYEGRASS	(MIN. 51 LBS/ACRE)
5%	REDTOP	(MIN. 8 LBS/ACRE)
5%	ALSIKE CLOVER	(MIN. 8 LBS/ACRE)
5%	BIRDSFOOT TREFOIL	(MIN. 8 LBS/ACRE)
3%	LANCE-LEAF COREOPSIS	(MIN. 3 LBS/ACRE)
3%	OXEYE DAISY	(MIN. 3 LBS/ACRE)
3%	BUTTERFLY WEED	(MIN. 3 LBS/ACRE)
3%	BLACKEYED SUSAN	(MIN. 3 LBS/ACRE)
	WILD LUPINE	(MIN. 3 LBS/ACRE)
		_
GENE	RAL SLOPE (NHDOT TYPE	44) MIX 3:1 OR GREAT
44%	CREEPING RED FESCUE	(MIN. 70 LBS/ACRE)
38%	PERENNIAL RYEGRASS	(MIN. 60 LBS/ACRE)
6%	REDTOP	(MIN. 10 LBS/ACRE)
-		tion is inclined

- (MIN. 10 LBS/ACRE) 6% ALSIKE CLOVER (MIN. 10 LBS/ACRE) 6% BIRDSFOOT TREFOIL
- PLACING LOAM ON SITE
- SEED BED PREPARATION Β. AFTER THE SEEDBED HAS BEEN PREPARED.
- SERVICES RECOMMENDATIONS.
- SHALL BE LAID IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 8. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS AREA NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS.
- 9. WATER SHALL BE USED FOR DUST CONTROL IN APPROPRIATE AREAS, IN ACCORDANCE WITH NHDES GUIDELINES.



- 1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH. BACKFILL AND COMPACT TRENCH AFTER STAPLING.
- 2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
- 3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX, 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
- 4. WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE BLANKET END OVER END WITH 6 INCH (MIN.) OVERLAP AND ANCHOR DOWN SLOPE BLANKET IN A 6 INCH DEEP TRENCH.

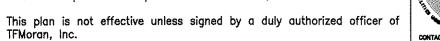
- **BLANKET SLOPE PROTECTION**

FOR EROSION CONTROL

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CONTACT DIG SAFE 72 BUSINESS HOURS PRIOR TO CONSTRUCTION

G SAF

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED: 1. INSTALLATION OF SILTATION FENCES AND OTHER EROSION CONTROL MEASURES SHALL BE COMPLETED PRIOR TO THE START OF SITE WORK IN ANY GIVEN AREA. PREFABRICATED SILTATION FENCES SHALL BE INSTALLED ACCORDING

2. SILTATION FENCES AND OTHER EROSION CONTROL MEASURES SHALL BE KEPT CLEAN DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A VEGETATIVE COVER OF GREATER THAN 85%. EROSION CONTROL MEASURES

4. THE AREA OF LAND EXPOSED AND THE TIME OF EXPOSURE SHALL BE MINIMIZED. ALL DISTURBED AREAS SHALL BE

5. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" OF LOAM. ACCEPTABLE SEED MIXES ARE AS FOLLOWS:

ACRE) /ACRE) ACRE) OR GREATER SLOPES (MIN. 160 LBS/ACRE);

ACRE) CRE) ACRE) CRE)

GREATER SLOPES (MIN, 160 LBS/ACRE):

a. ALL SUBGRADE ELEVATIONS SHOULD BE UNIFORMLY GRADED TO RECEIVE LOAM AND SHALL BE INSPECTED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO PLACEMENT OF LOAM. PLACE LOAM TO FORM A MINIMUM DEPTH OF 4" WHEN ROLLED, UNLESS OTHERWISE INDICATED. ALL DEPRESSIONS EXPOSED DURING THE ROLLING SHALL BE FILLED WITH ADDITIONAL LOAM.

AFTER FINISH GRADING AND JUST BEFORE SEEDING, THE AREAS TO BE SEEDED SHALL BE LOOSENED TO PROVIDE A ROUGH, FIRM BUT FINELY PULVERIZED SEEDBED. THE INTENT IS A TEXTURE CAPABLE OF RETAINING WATER, SEED AND FERTILIZER WHILE REMAINING STABLE AND ALLOWING SEED TIME TO GERMINATE. SEED SHALL BE APPLIED TO THE CONDITIONED SEEDBED NOT MORE THAN 48 HOURS

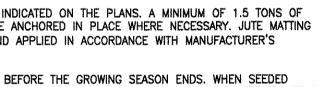
SEEDING. A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS. PER ACRE OF 10-20-20 FERTILIZER SHALL BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION

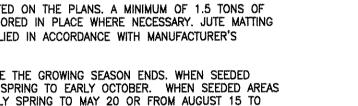
6, LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF AT THE TIME OF

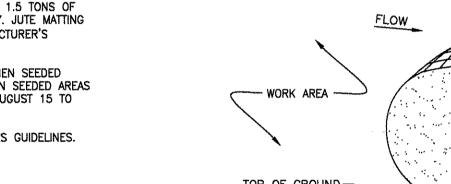
7. HAY MULCH OR JUTE MATTING SHALL BE USED WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE ANCHORED IN PLACE WHERE NECESSARY. JUTE MATTING

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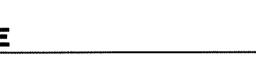
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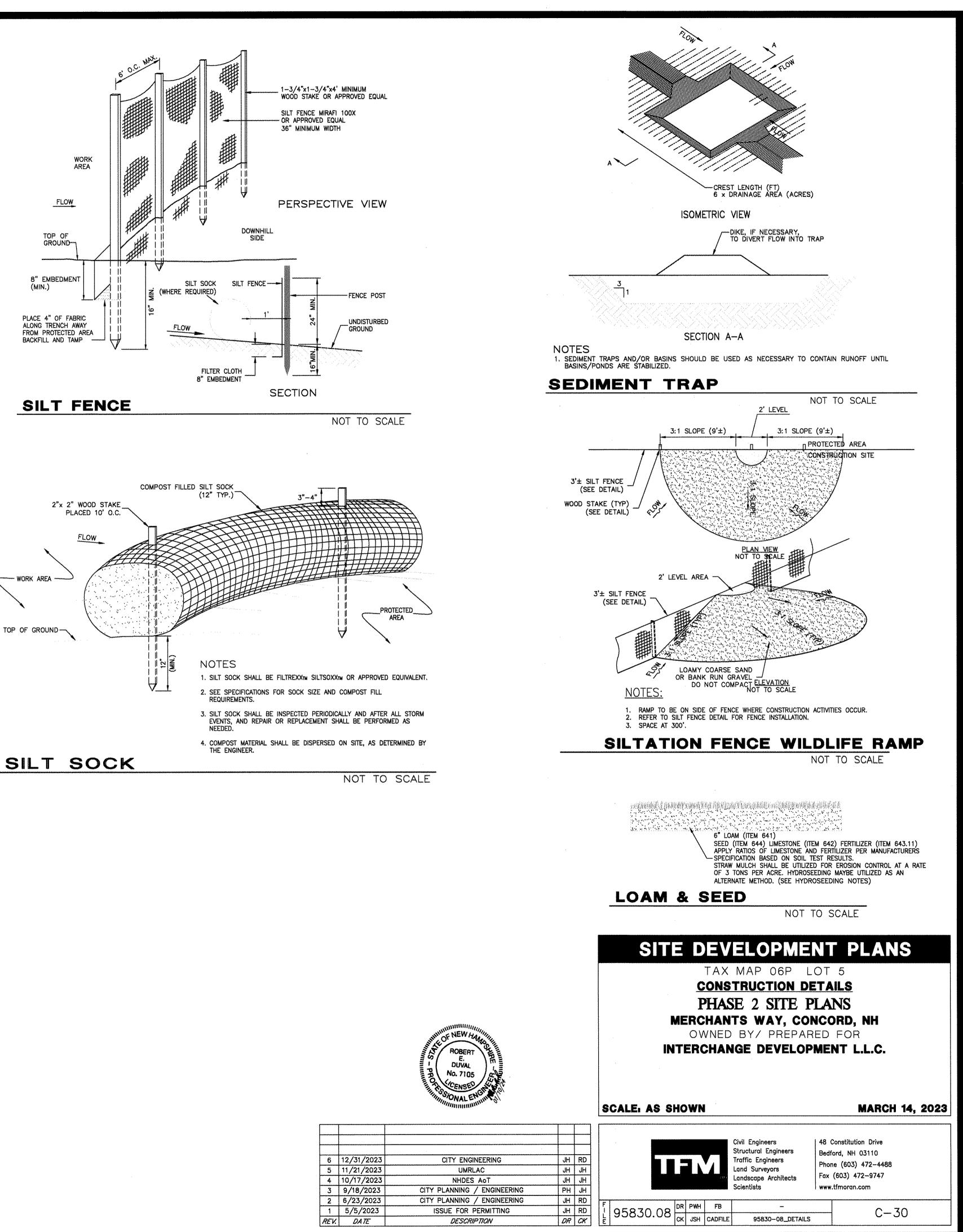






1-3/4"x1-3/4"x4' MINIMUM SILT FENCE MIRAFI 100X - OR APPROVED EQUAL 36" MINIMUM WIDTH WORK AREA FLOW DOWNHIL TOP OF SIDE GROUND-8" EMBEDMENT SILT SOCK SILT FENCE ----(MIN.) (WHERE REQUIRED) FLOW GROUND FILTER CLOTH 8" EMBEDMENT





NOT TO SCALE

- STAPLE 12" ON CENTER

BLANKET SHALL NOT CONTAIN WELDED PLASTIC, PLASTIC, MULTI-FILAMENT, OR MONO-FILAMENT POLYPROPYLENE NETTING OR

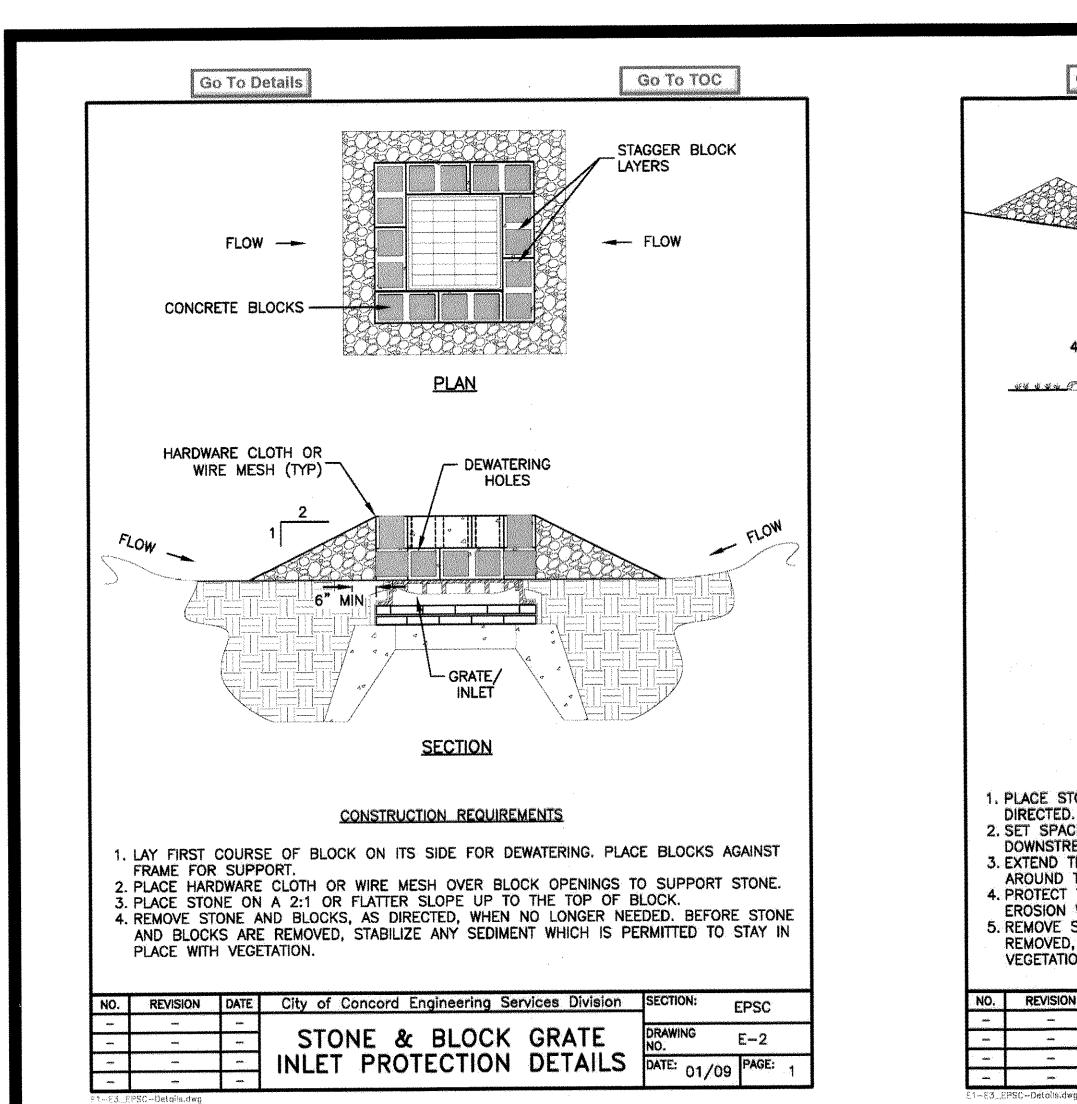
CURLEX III FIBRENET, ROLANKA GEONATURAL EROSION & SEDIMENT CONTROL MATTE JUTEMAT OR BIOD-OCF 30, OR APPROVED

5. BLANKET SHALL BE NORTH AMERICAN GREEN C125BN, EAST COAST EROSION CONTROL ECC-2B, AMERICAN EXCELSIOR COMPANY

STAPLE 12"

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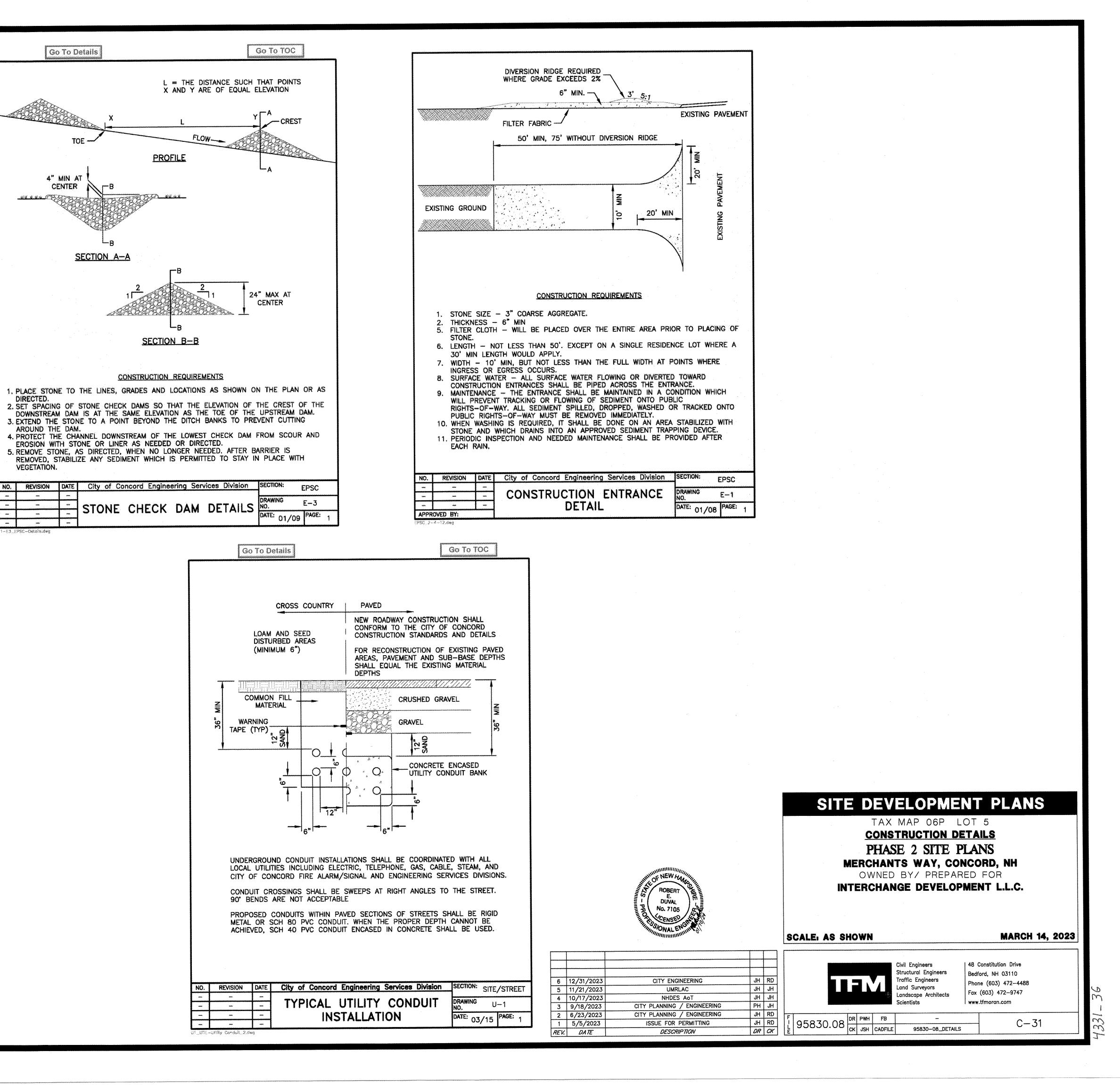


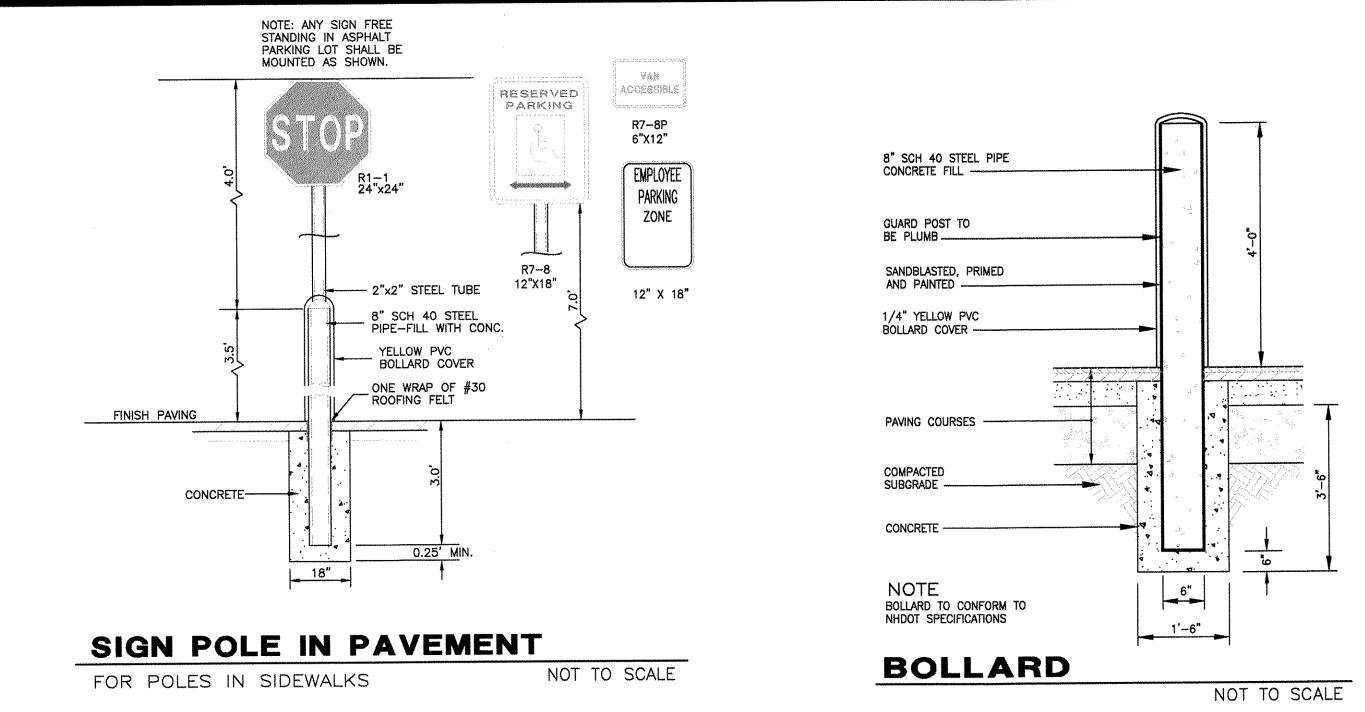
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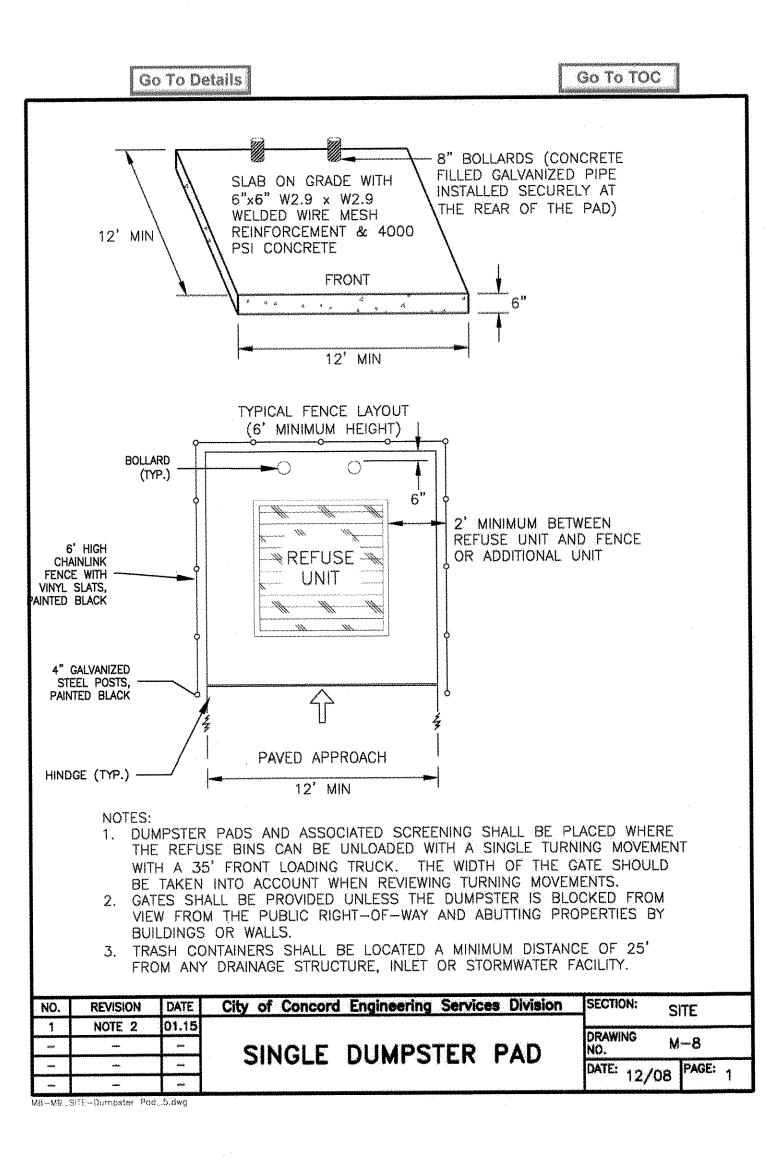
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CONTACT DIG SAFE 72 BUSINESS HOLMS FROM TO CONSTRUCTION





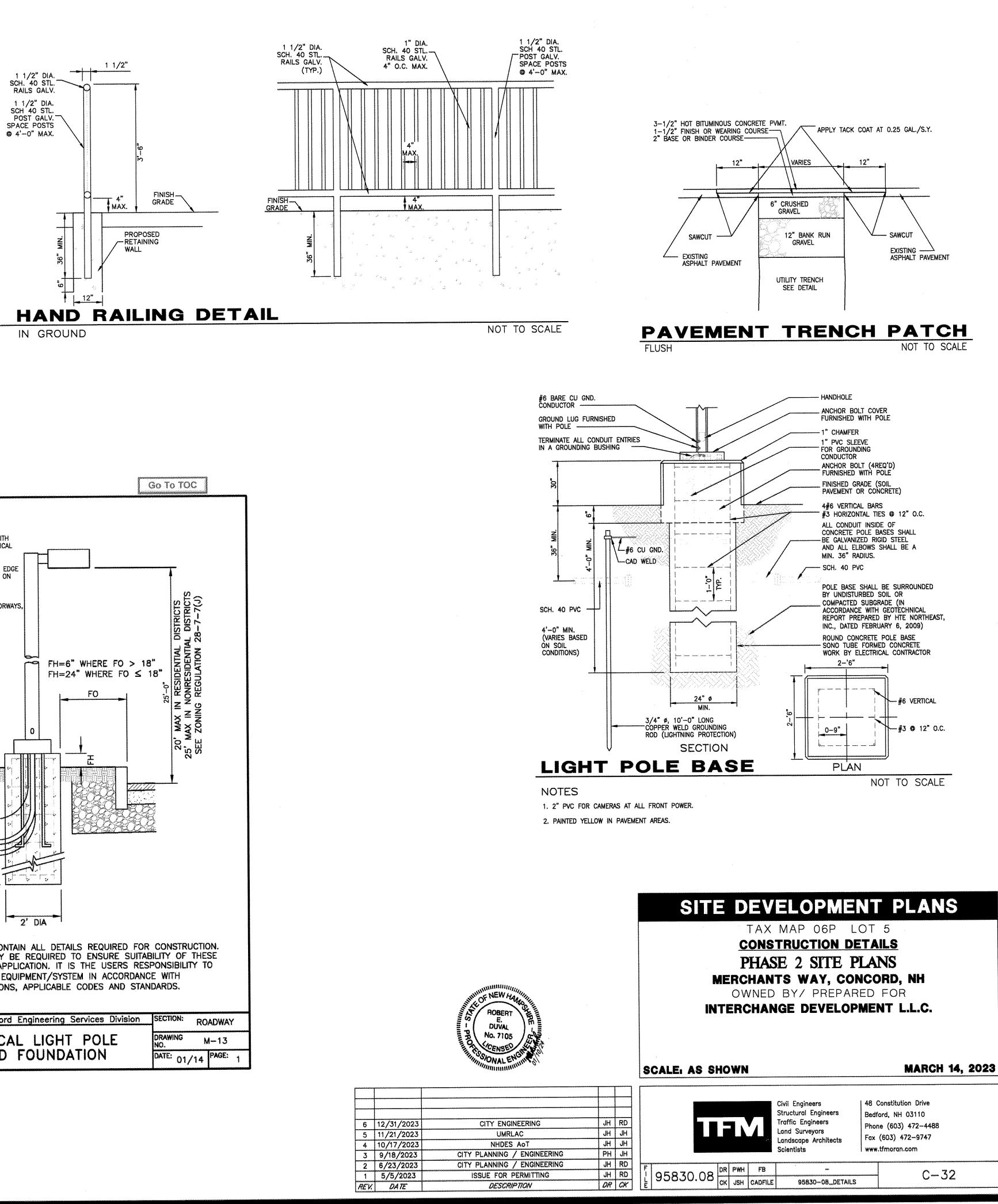


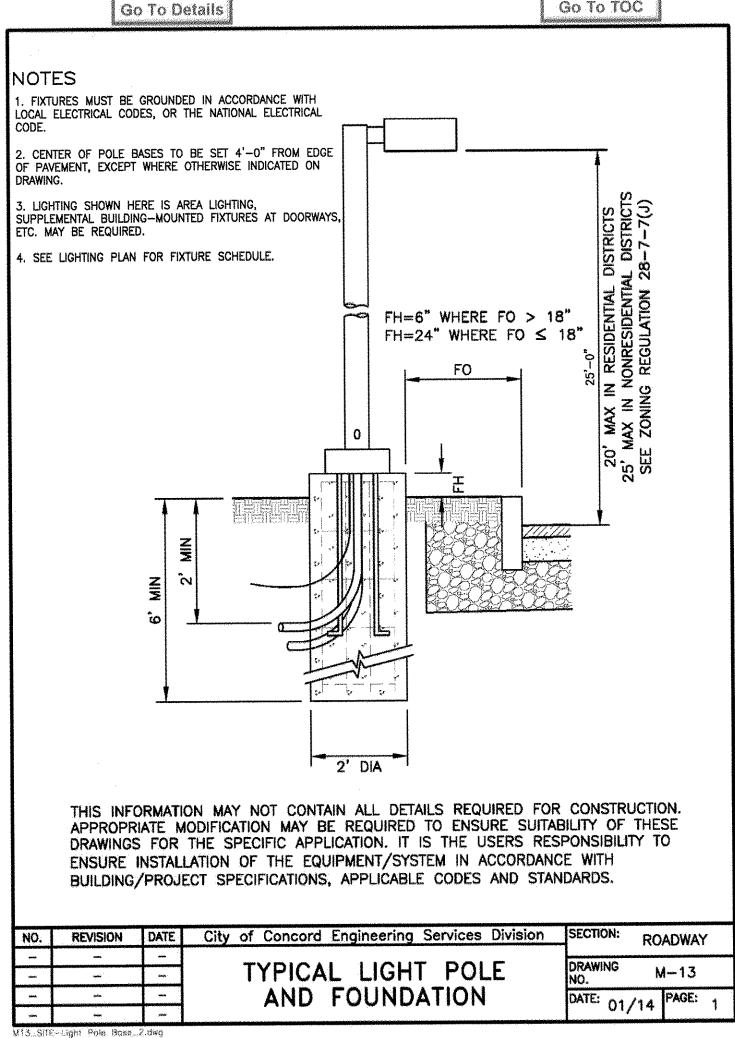
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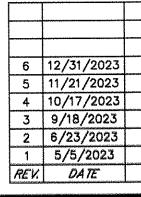
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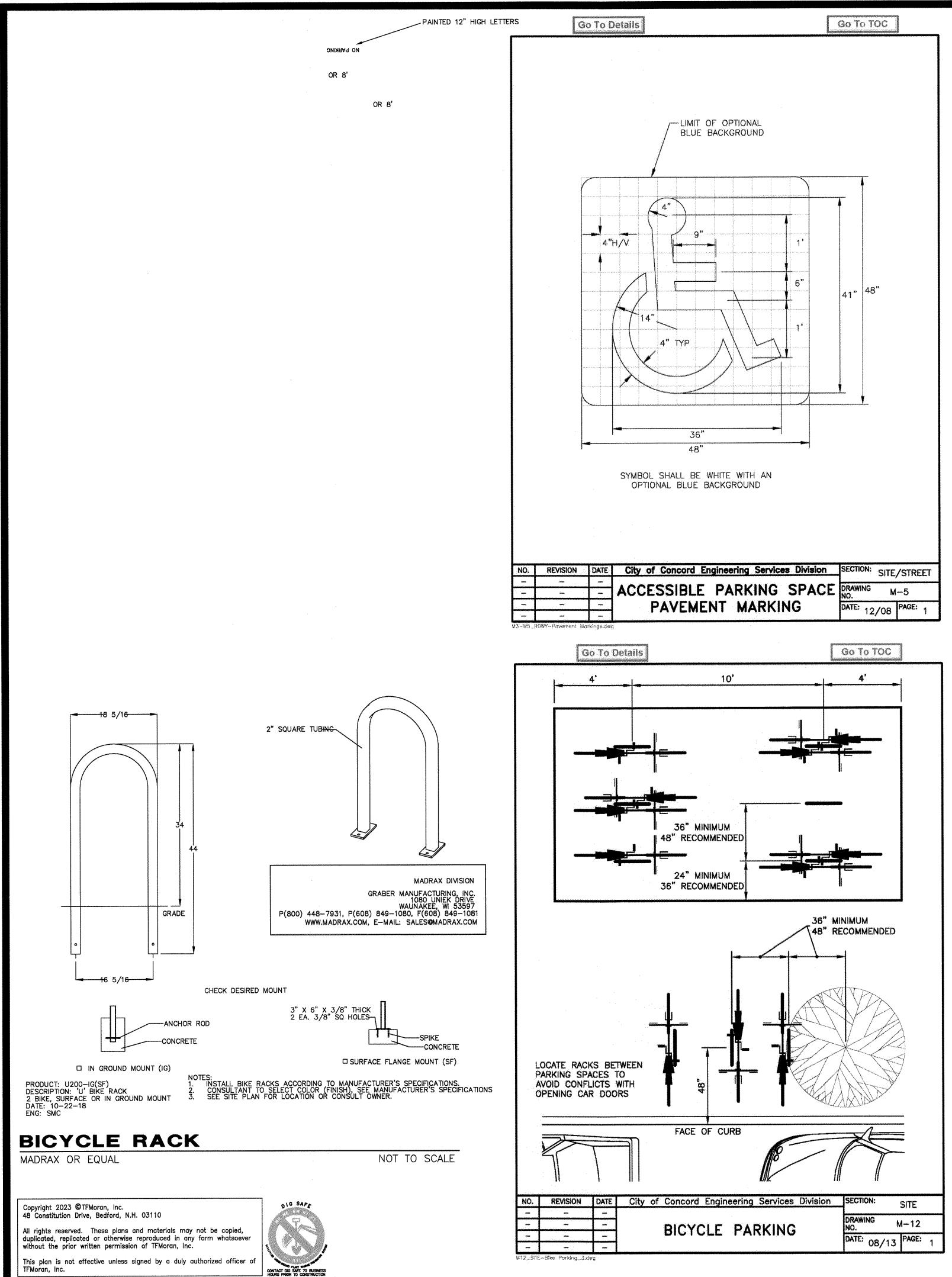
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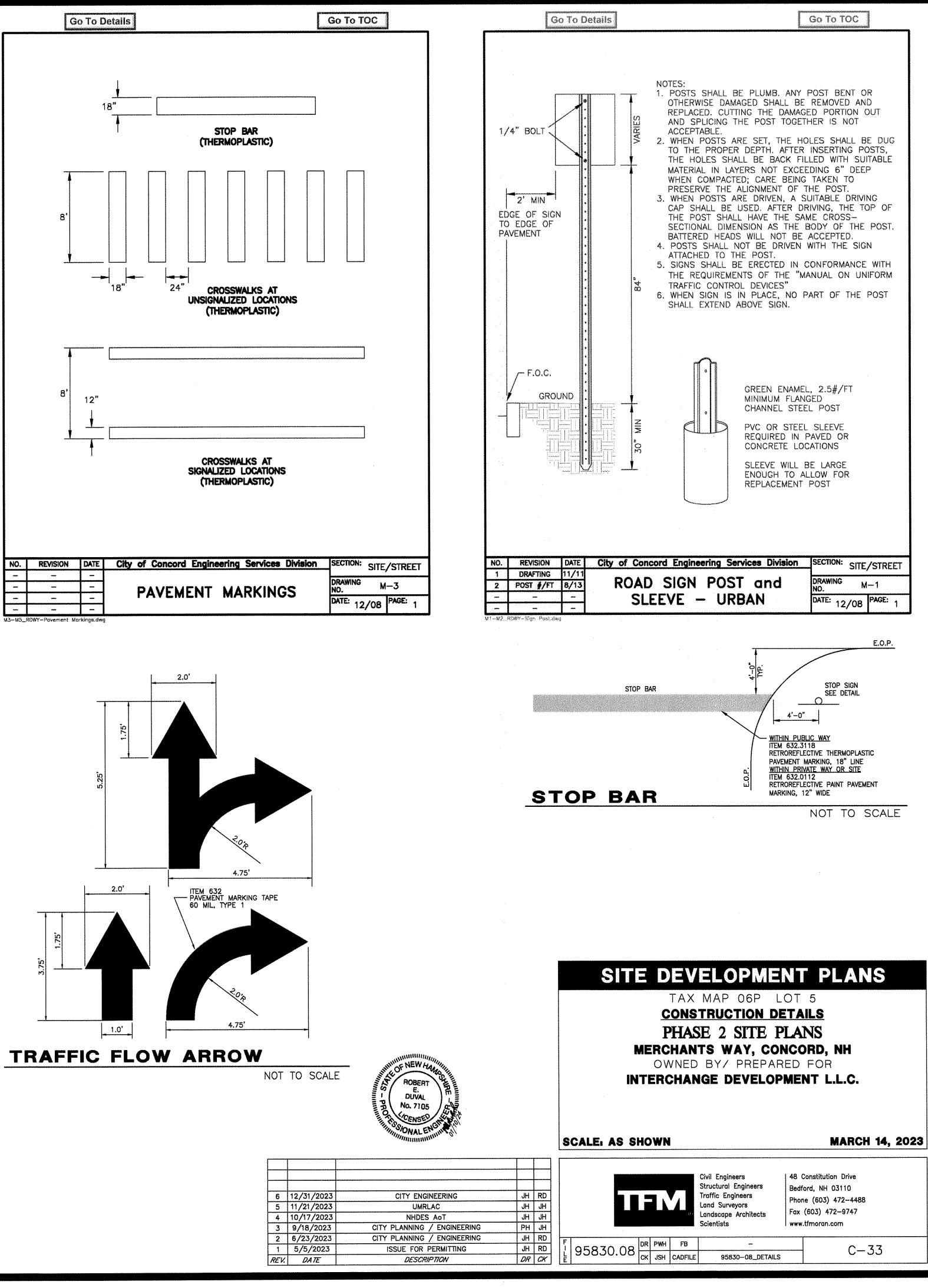




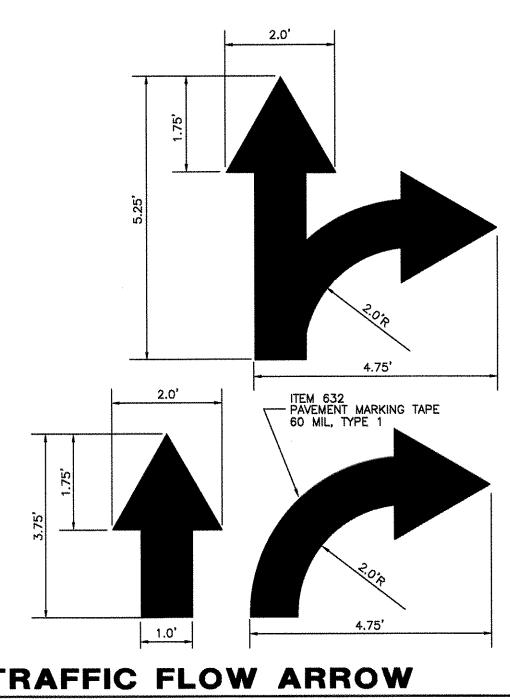


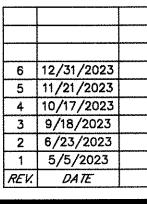
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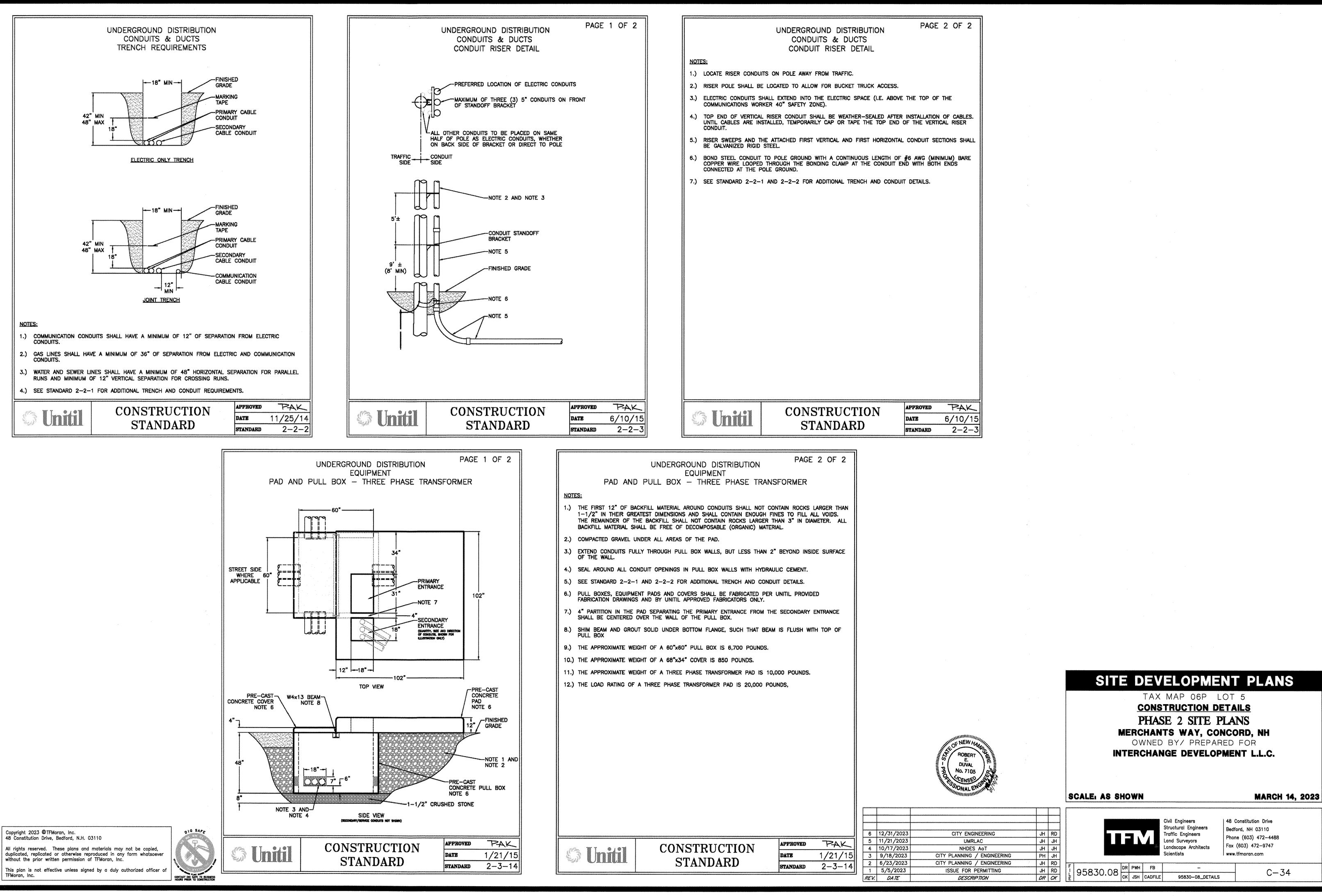


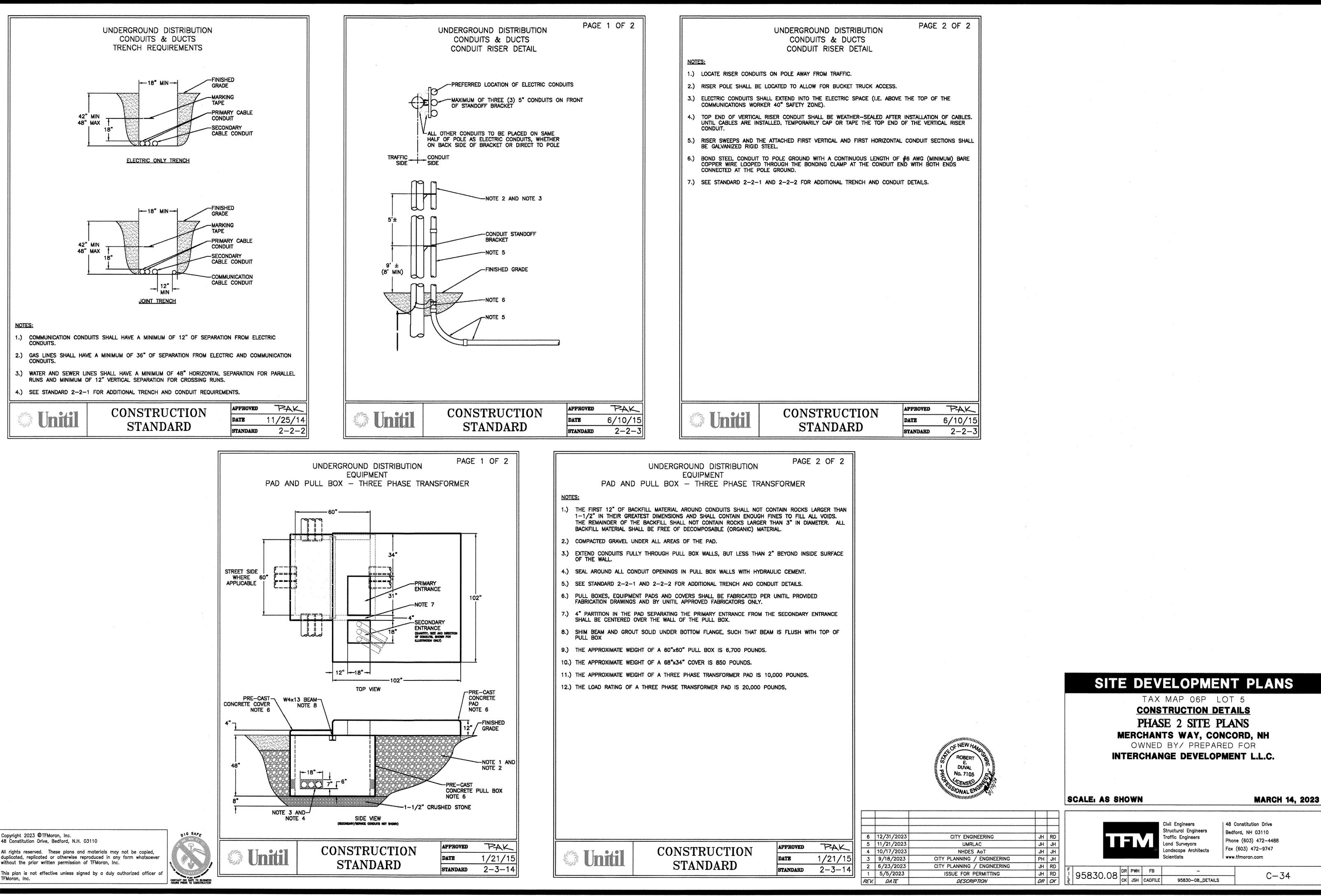


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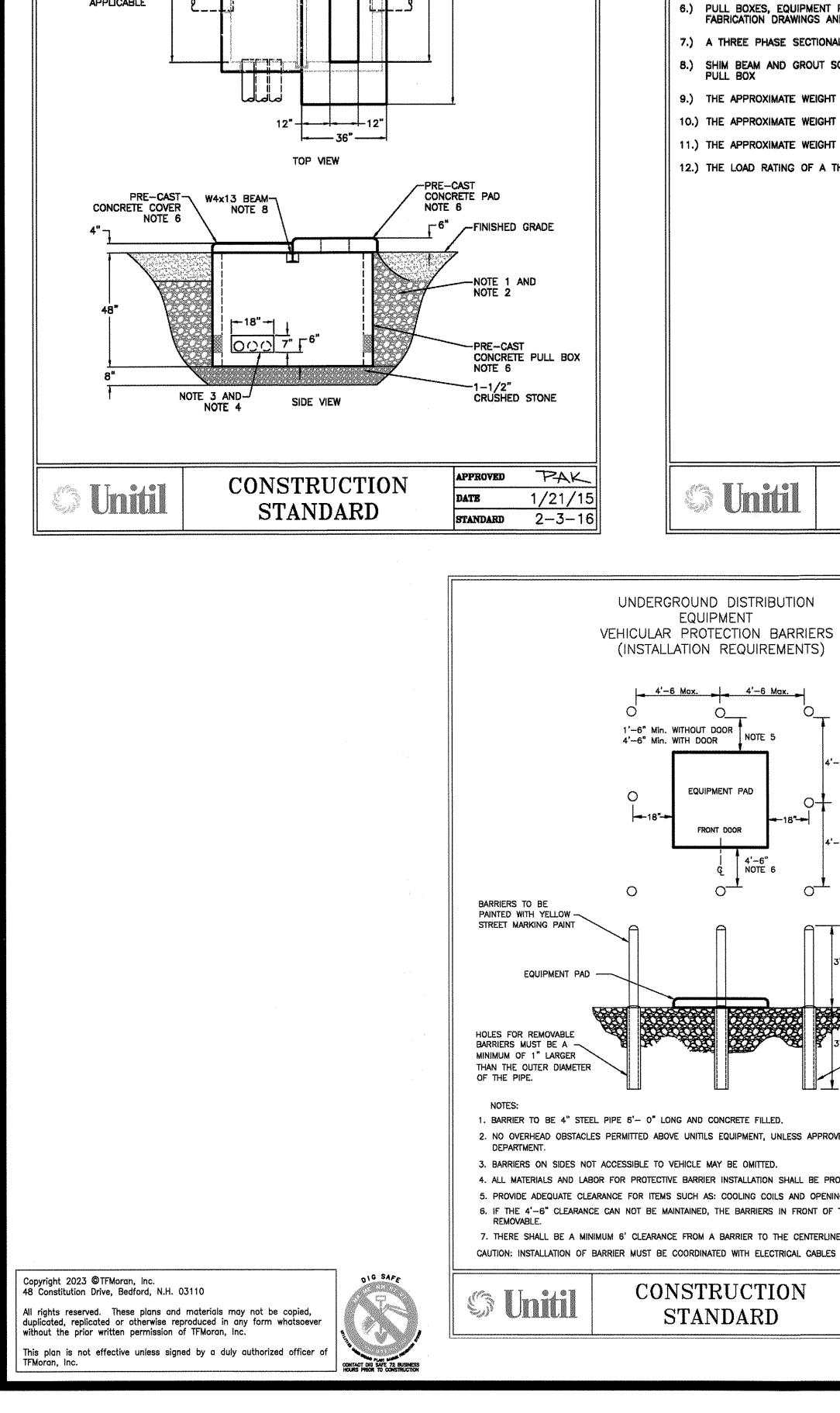


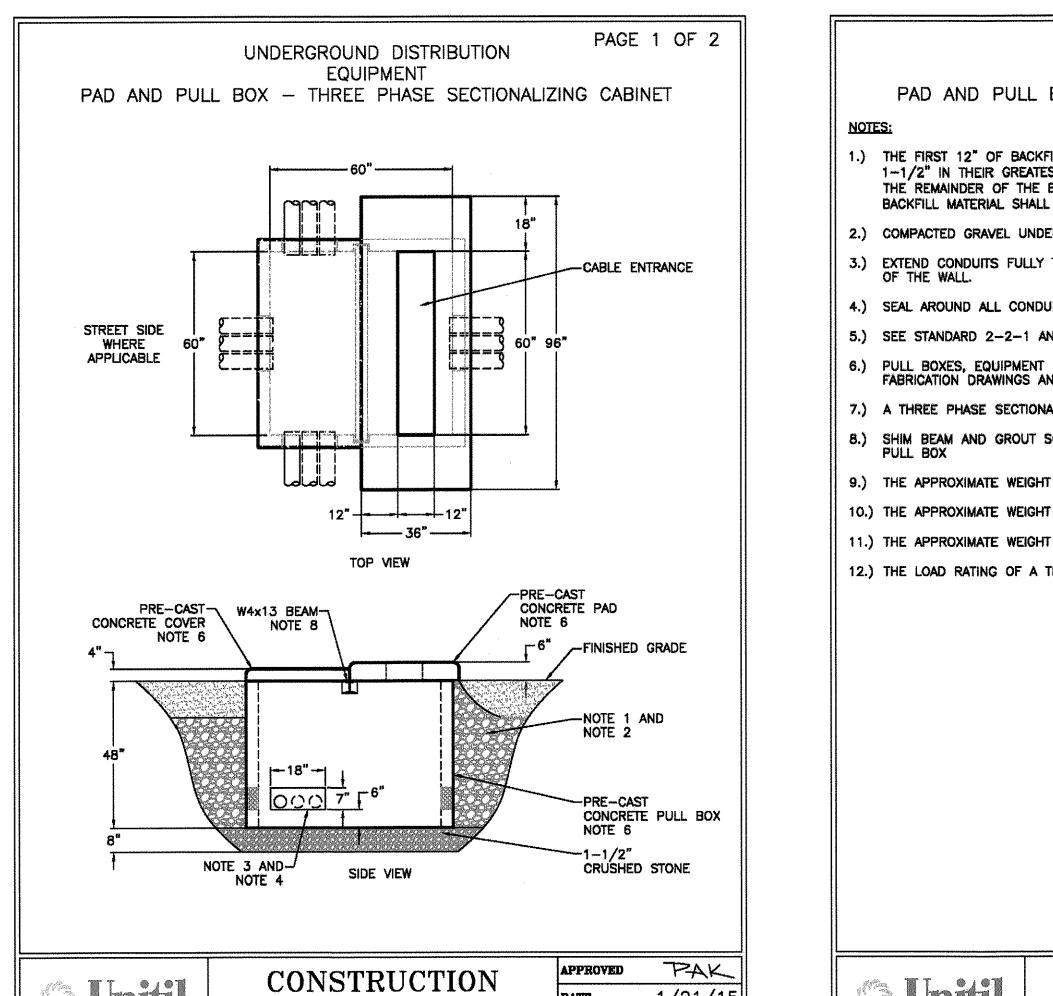




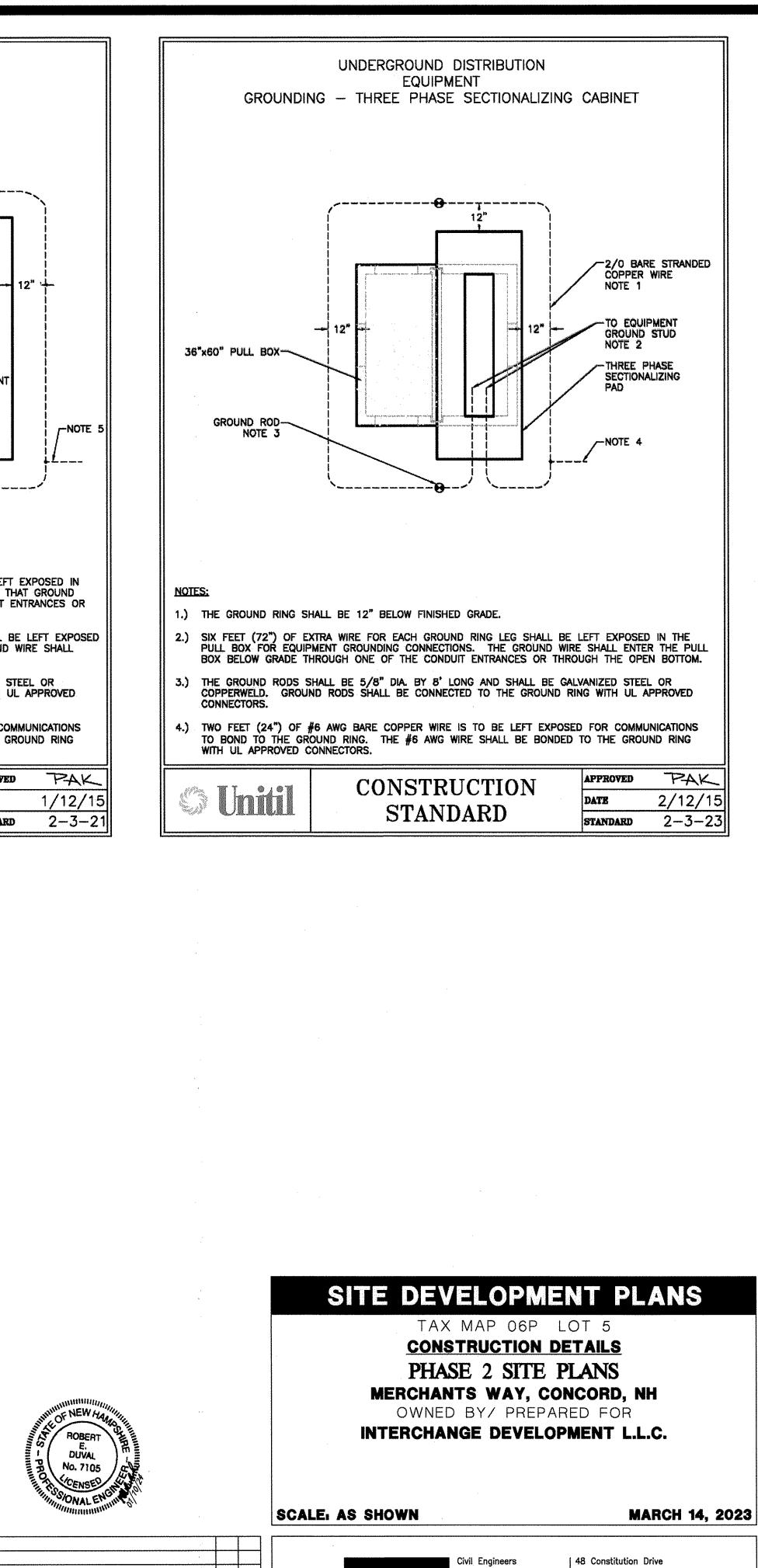


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TION OF CABLES. ERTICAL RISER	
SECTIONS SHALL	
(MINIMUM) BARE IOTH ENDS	
, PAK	
6/10/15	
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			PAGE 2 OF 2			N
	PAD AND PULL	······································	NALIZING CABINET	GROUI	-	SFORMER
	1-1/2" IN THEIR GREAT THE REMAINDER OF THE BACKFILL MATERIAL SHAL COMPACTED GRAVEL UNI	TEST DIMENSIONS AND SHALL CONTAIN ENOUG E BACKFILL SHALL NOT CONTAIN ROCKS LARG LL BE FREE OF DECOMPOSABLE (ORGANIC) M DER ALL AREAS OF THE PAD.	SH FINES TO FILL ALL VOIDS. ER THAN 3" IN DIAMETER. ALL MATERIAL.	COPPER WIRE NOTE 1		
	OF THE WALL.					
						12" '
	PULL BOXES, EQUIPMEN	IT PADS AND COVERS SHALL BE FABRICATED	PER UNITIL PROVIDED		GROUND	STUD IN
					NOTE 2	
		SOLID UNDER BOTTOM FLANGE, SUCH THAT	BEAM IS FLUSH WITH TOP OF		GROUND SECOND	STUD IN
			DS.			ROD
			NET PAD IS 1,500 POUNDS.		NOTE 4	-NOTE 5
	THE LOAD RATING OF A	THREE PHASE SECTIONALIZING CABINET PAD	IS 500 POUNDS,			
A BE CIT (20) CONSTRUCTION A BE CIT (20) CONSTRUCTION				NOTES:		
				2.) SIX FEET (72") OF EXTR THE PULL BOX FOR CO	A WIRE AT ONE END OF THE GROUND RI	NG SHALL BE LEFT EXPOSED IN COMPARTMENT. THAT GROUND
				WIRE SHALL ENTER THE THROUGH THE OPEN BO 3.) SIX FEET (72") OF EXTR	PULL BOX BELOW GRADE THROUGH ONE TTOM. A WIRE AT THE OTHER END OF THE GRO	OF THE CONDUIT ENTRANCES OR
				ENTER FROM BELOW GR	ADE THROUGH THE SECONDARY ENTRANCE	IN THE PAD.
Unitial CONSTRUCTION STANDARD Marging Tracks particule Construction Marging Tracks particule Construction Marging Tracks particule Construction Marging Tracks particule 0 Distribution Construction Marging Tracks Construction Marging Tracks 0 Distribution Construction Marging Tracks Construction Marging Tracks 0 Distribution Construction Construction Construction Marging Tracks 0 Distribution Construction Construction Construction Processing Tracks 0 Distribution Construction Construction Construction Processing Tracks Construction Processing Tracks 10 Construction Construction Construction Construction Construction Processing Tracks Construction Constru				COPPERWELD. GROUND	LL BE 5/8" DIA. BY 8' LONG AND SHALL RODS SHALL BE CONNECTED TO THE GR	UND RING WITH UL APPROVED
White CONSTRUCTION STANDARD mm 1/22/15 produce Constit CONSTRUCTION STANDARD mm 1/22/15 produce mm mm 1/22/15 produce mm mm 1/22/15 produce mm mm 1/22/15 produce mm mm <t< td=""><td></td><td></td><td></td><td>TO BOND TO THE GROU</td><td>ND RING. THE #6 AWG WIRE SHALL BE</td><td>EXPOSED FOR COMMUNICATIONS BONDED TO THE GROUND RING</td></t<>				TO BOND TO THE GROU	ND RING. THE #6 AWG WIRE SHALL BE	EXPOSED FOR COMMUNICATIONS BONDED TO THE GROUND RING
Provide Level Provide	3 Unitil		DATE 1/21/15	S Unitil		DATE 1/12/15
ABJER INSTALLATION SHALL BE PROVIDED BY CUSTOMER. AS: COOLING COLLS AND OPENING OF DOORS ON EQUIPMENT. ED, THE BARRIERS IN FRONT OF THE DOOR MUST BE MADE M A BARRIER TO THE CENTERLINE OF A FIRE HYDRANT. INNATED WITH ELECTRICAL CABLES OR CONDUIT INSTALLATION. TRUCTION NDARD APPROVED MATE 9/11/07 STANDARD 2-3-27-Temp. VINCE CONSTRUCTION STANDARD 2-3-27-Temp. INATE 1/12/15 STANDARD	DOOR NOTE 5	4'-6" 4'-6" 	 TRENCH & C 13.) CONDUIT RUNS SHALL BE CLEANE 1/4" LESS THAN THE CONDUIT) T 14.) ALL CONDUIT RUNS SHALL HAVE 15.) ALL CONDUITS SHALL HAVE 36" (16.) SPARE CONDUITS SHALL BE INSTA SUITABLE APPROVED PLUGS OR C 17.) CONDUITS INSTALLED UNDER ROAI BE SCHEDULE BO PVC OR RIGID APPROVAL BY UNITIL. 18.) CONDUIT RUNS THAT ARE LESS T APPROVED BY UNITIL. 19.) CONCRETE ENCASED PVC MUST H 20.) PARALLEL RUN UTILITIES: WATER AND SEWER - THERE CONDUITS AND 12" (MINIMUM) RUNS. GAS - THERE SHALL BE 3' (COMMUNICATION CONDUITS - CONDUITS. 21.) CONDUIT SIZES SHALL BE: 3" FOR SINGLE PHASE SERVIC 4" FOR SINGLE PHASE SERVIC 4" FOR SINGLE PHASE SERVIC 4" FOR THREE PHASE SERVIC 4" FOR THREE PHASE SERVIC 4" FOR THREE PHASE PRIMAF 	CONDUIT GENERAL REQUIREM ED BY PULLING A CLEANING PLUG OR M THROUGH THE CONDUIT. A 2,500# FLAT, WOVEN, POLYESTER PUL (MINIMUM) COVER. ALLED UNDER ROADWAYS, DRIVEWAYS ANI CAPS INSTALLED IN ALL EXPOSED ENDS. DWAYS, DRIVEWAYS, PARKING LOTS, OR A STEEL, OR MAY BE CONCRETE-ENCASED THAN THE MINIMUM DEPTH MUST BE CON HAVE 4" (MINIMUM) OF CONCRETE ON AL SHALL BE 4' (MINIMUM) OF HORIZONTAI) OF VERTICAL CLEARANCE FROM ELECTRIC O THERE SHALL BE 12" (MINIMUM) OF SE CE RUNS UP TO AND INCLUDING 200 AM NDARY RUNS. CES OVER 200 AMPS AND UP TO AND IN SES UP TO AND INCLUDING 400 AMPS. RY RUNS RY RUNS RY RUNS	ANDREL (NO SMALLER THAN LING LINE INSTALLED. D PAVED AREAS AND HAVE ANY TRAVELED WAY SHALL SCHEDULE 40 PVC WITH CRETE ENCASED AND L SIDES. DISTANCE FROM ELECTRIC IC CONDUITS FOR CROSSING ONDUITS IN ALL DIRECTIONS. PARATION FROM ELECTRIC IPS. NCLUDING 400 AMPS.	ROBERT 6 E. DUVAL
Indication Indication <td>AS: COOLING COILS AND OPEN ED, THE BARRIERS IN FRONT O M A BARRIER TO THE CENTERL</td> <td>ENING OF DOORS ON EQUIPMENT. OF THE DOOR MUST BE MADE LINE OF A FIRE HYDRANT.</td> <td></td> <td></td> <td></td> <td>THE THE CENSED</td>	AS: COOLING COILS AND OPEN ED, THE BARRIERS IN FRONT O M A BARRIER TO THE CENTERL	ENING OF DOORS ON EQUIPMENT. OF THE DOOR MUST BE MADE LINE OF A FIRE HYDRANT.				THE THE CENSED
ANDARD STANDARD 2-3-27-Temp. STANDARD 2-3-27-Temp. STANDARD 2-3-27-Temp. STANDARD 2-3-27-Temp. STANDARD 2-2-1 1 5/5/2023 CITY PLANNING / ENGINE 1 5/5/2023 SUB FOR PERMITTIN	FRUCTION					11/21/2023 UMRLAC
	NDARD		Unitil C		DATE 1/12/15	9/18/2023 CITY PLANNING / ENGINE 6/23/2023 CITY PLANNING / ENGINE



Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com C-35

Structural Engineers

Landscape Architects

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Traffic Engineers

Land Surveyors

Scientists

95830.08 DR PWH FB

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JH RD JH RD DR CK

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STORMTECH PRODUCT SPECIFICATIONS

- 1.0 GENERAL STORMTECH CHAMBERS ARE DESIGNED TO 1.1 CONTROL STORMWATER RUNOFF. AS A SUBSURFACE RETENTION SYSTEM, STORMTECH CHAMBERS RETAIN AND ALLOW EFFECTIVE INFILTRATION OF WATER INTO THE SOIL. AS A SUBSURFACE DETENTION SYSTEM, STORMTECH CHAMBERS DETAIN AND ALLOW FOR THE METERED FLOW OF WATER TO AN OUTFALL.
- 2.0 CHAMBER PARAMETERS 2.1 THE CHAMBER SHALL BE INJECTION MOLDED OF POLYPROPYLENE RESIN TO BE INHERENTLY RESISTANT TO ENVIRONMENTAL STRESS CRACKING (ESCR), AND TO MAINTAIN ADEQUATE STIFFNESS HROUGH HIGHER TEMPERATURES EXPERIENCED DURING INSTALLATION AND SERVICE.
- 2.2 THE NOMINAL CHAMBER DIMENSIONS OF THE STORMTECH SC-740 SHALL BE 30.0 INCHES TALL, 51.0 INCHES WIDE AND 90.7 INCHES LONG.
- 2.3 THE CHAMBER SHALL HAVE A CONTINUOUSLY CURVED SECTION PROFILE.

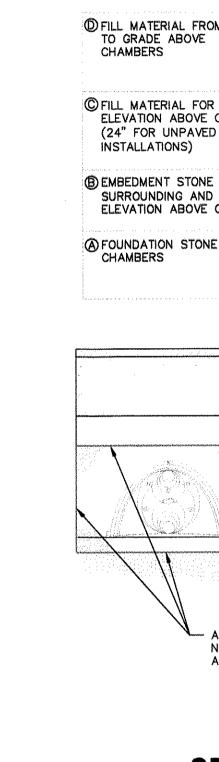
SHORTEN ITS OVERALL LENGTH.

- 2.4 THE CHAMBER SHALL BE OPEN-BOTTOMED. 2.5 THE CHAMBER SHALL INCORPORATE AN OVERLAPPING CORRUGATION JOINT SYSTEM TO ALLOW CHAMBER ROWS OF ALMOST ANY LENGTH TO BE CREATED. THE OVERLAPPING CORRUGATION JOINT SYSTEM SHALL BE EFFECTIVE WHILE ALLOWING A CHAMBER TO BE TRIMMED TO
- 2.6 THE NOMINAL STORAGE VOLUME OF A JOINED STORMTECH SC-740 CHAMBER SHALL BE 74.9 CUBIC FEET PER CHAMBER WHEN INSTALLED PER STORMTECH'S TYPICAL DETAILS (INCLUDES THE VOLUME OF CRUSHED ANGULAR STONE WITH AN % POROSITY). THIS EQUATES TO ASSUMED 40 CUBIC FEET OF STORAGE /SQUARE FOOT OF BED.
- 2.2 THE CHAMBER SHALL HAVE FORTY-EIGHT ORIFICES PENETRATING THE SIDEWALLS TO ALLOW FOR LATERAL CONVEYANCE OF WATER.
- 2.7 THE CHAMBER SHALL HAVE TWO ORIFICES NEAR ITS TOP TO ALLOW FOR EQUALIZATION OF AIR PRESSURE BETWEEN ITS INTERIOR AND EXTERIOR.
- 2.8 THE CHAMBER SHALL HAVE BOTH OF ITS ENDS 2.9 OPEN TO ALLOW FOR UNIMPEDED HYDRAULIC FLOWS AND VISUAL INSPECTIONS DOWN A ROW'S ENTIRE LENGTH.

- 2.10 THE CHAMBER SHALL HAVE 14 CORRUGATIONS.
- 2.11 THE CHAMBER SHALL HAVE A CIRCULAR, INDENTED, FLAT SURFACE ON THE TOP OF THE CHAMBER FOR AN OPTIONAL 4-INCH INSPECTION PORT OR CLEAN-OUT.
- 2.12 THE CHAMBER SHALL BE ANALYZED AND DESIGNED USING AASHTO METHODS FOR THERMOPLASTIC CULVERTS CONTAINED IN THE LRFD BRIDGE DESIGN SPECIFICATIONS, 2ND EDITION, INCLUDING INTERIM SPECIFICATIONS THROUGH 2001. DESIGN LIVE LOAD SHALL BE THE AASHTO HS20 TRUCK. DESIGN SHALL CONSIDER EARTH AND LIVE LOADS AS APPROPRIATE FOR THE MINIMUM TO MAXIMUM SPECIFIED DEPTH OF FILL.
- 2.13 THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001: 2000 CERTIFIED FACILITY.
- 3.0 END CAP PARAMETERS THE END CAP SHALL BE INJECTION MOLDED OF POLYPROPYLENE RESIN TO BE INHERENTLY RESISTANT TO ENVIRONMENTAL STRESS CRACKING. AND TO MAINTAIN ADEQUATE STIFFNESS THROUGH HIGHER TEMPERATURES EXPERIENCED DURING INSTALLATION AND SERVICE.
- 3.2 THE END CAP SHALL BE DESIGNED TO FIT INTO ANY CORRUGATION OF A CHAMBER, WHICH ALLOWS: CAPPING A CHAMBER THAT HAS ITS LENGTH TRIMMED; SEGMENTING ROWS INTO STORAGE BASINS OF VARIOUS LENGTHS.
- 3.3 THE END CAP SHALL HAVE SAW GUIDES TO ALLOW EASY CUTTING FOR VARIOUS DIAMETERS OF PIPE THAT MAY BE USED TO INLET THE SYSTEM.
- 3.4 THE END CAP SHALL HAVE EXCESS STRUCTURAL ADEQUACIES TO ALLOW CUTTING AN ORIFICE OF ANY SIZE AT ANY INVERT ELEVATION.
- 3.5 THE PRIMARY FACE OF AN END CAP SHALL BE CURVED OUTWARD TO RESIST HORIZONTAL LOADS GENERATED NEAR THE EDGES OF BEDS.
- 3.6 THE END CAP SHALL BE MANUFACTURED IN AN ISO 9001:2000 CERTIFIED FACILITY.

STORMTECH GENERAL NOTES

- 1. STORMTECH LLC ("STORMTECH") REQUIRES INSTAI CONTRACTORS TO USE AND UNDERSTAND STORMTECH'S LATEST INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION.
- 2. OUR TECHNICAL SERVICES DEPARTMENT OFFERS INSTALLATION CONSULTATIONS TO INSTALLING CONTRACTORS. CONTACT OUR TECHNICAL SERVI REPRESENTATIVE AT LEAST 30 DAYS PRIOR TO
- SYSTEM INSTALLATION TO ARRANGE A PRE-INSTALLATION CONSULTATION. OUR REPRESENTATIVES CAN THEN ANSWER QUESTION ADDRESS COMMENTS ON THE STORMTECH CHAME SYSTEM AND INFORM THE INSTALLING CONTRACT OF THE MINIMUM INSTALLATION REQUIREMENTS B BEGINNING THE SYSTEM'S CONSTRUCTION. CALL -888-892-2694 TO SPEAK TO A TECHNICAL SERVICE REPRESENTATIVE OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF OL INSTALLATION INSTRUCTIONS.
- STORMTECH'S REQUIREMENTS FOR SYSTEMS WITH PAVEMENT DESIGN (ASPHALT, CONCRETE PAVERS, ETC.): MINIMUM COVER IS 18 INCHES NOT INCLUDING PAVÉMENT: MAXIMUM COVER IS 96 INCHES INCLUDING PAVEMENT. FOR INSTALLATIONS THAT DO NOT INCLUDE PAVEMENT, WHERE RUTTING FROM VEHICLES MAY OCCUR, MINIMUM REQUIRED COVER IS 24 INCHES, MAXIMUM COVER IS 96 INCHES.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE DESIGN ENGINEER.
- AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE (FILTER FABRIC) MUST BE USED AS SHOWN IN THE PROJECT PLANS.

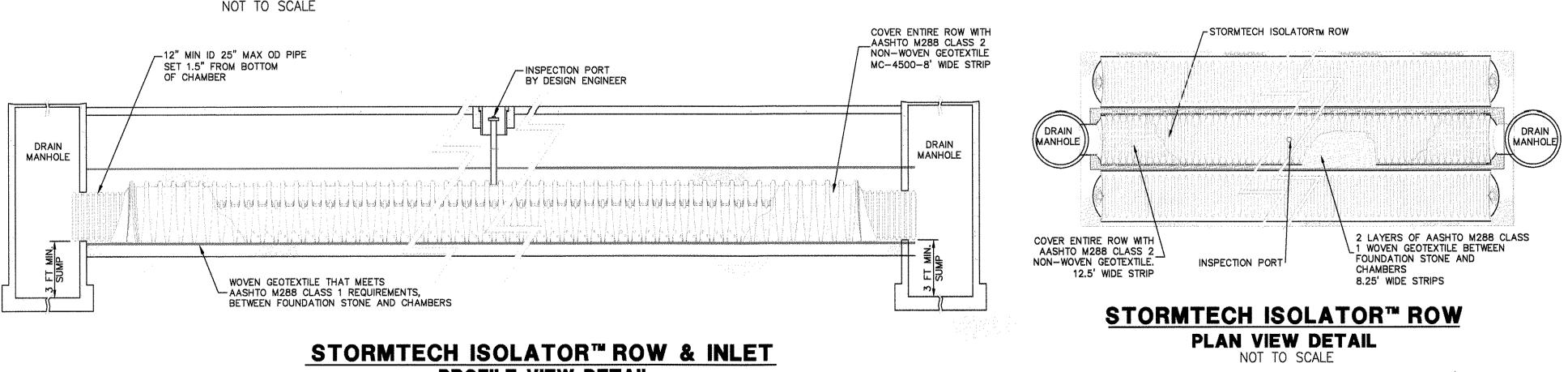


- PAVEMENT - PAVEMENT SUB-BASE - COMPACTED FILL - AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE ----- 6" MIN. DEPTH OF 1 - 2-INCH WASHED, CRUSHED, ANGULAR STONE BACKFILL (NHDOT 304.4) K - 1- 2-INCH WASHED, CRUSHED, ANGULAR STONE BENEATH AND AROUND CHAMBER BED. TO A DEPTH OF 24" UNDER CHAMBER (NHDOT 304.4) MC-3500 CHAMBER (24" MAX.) MC-3500 END CAP

INLET PIPE

STORMTECH MC-3500 CHAMBER SYSTEM PLAN VIEW DETAIL

NOT TO SCALE



PROFILE VIEW DETAIL

NOT TO SCALE

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This plan is not effective unless signed by a duly authorized officer



ALLING NS	6. STONE PLACEMENT BETWEEN CHAMBERS ROWS AND AROUND PERIMETER MUST FOLLOW INSTRUCTIONS AS SHOWN IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
ICES	 BACKFILLING OVER THE CHAMBERS MUST FOLLOW REQUIREMENTS AS SHOWN IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS. 8.
s or Ber Tor Before	THE CONTRACTOR MUST REFER TO STORMTECH'S INSTALLATION INSTRUCTIONS FOR A TABLE OF ACCEPTABLE VEHICLE LOADS AT VARIOUS DEPTHS OF COVER. THIS INFORMATION IS ALSO AVAILABLE AT STORMTECH'S WEBSITE: WWW.STORMTECH.COM. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING VEHICLES THAT EXCEED STORMTECH'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE
OUR	STORMWATER SYSTEM. TEMPORARY FENCING, WARNING TAPE AND APPROPRIATELY LOCATED SIGNS
 5,	ARE COMMONLY USED TO PREVENT UNAUTHORIZED VEHICLES FROM ENTERING SENSITIVE CONSTRUCTION AREAS.

THE CONTRACTOR MUST APPLY EROSION AND

SEDIMENT CONTROL MEASURES TO PROTECT THE

CONSTRUCTION PER LOCAL CODES AND DESIGN

ENGINEER'S SPECIFICATIONS.

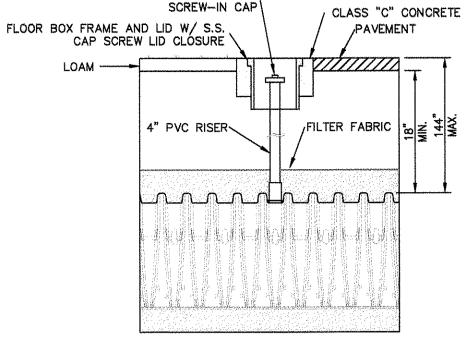
STORMWATER SYSTEM DURING ALL PHASES OF SITE

STORMTECH PRODUCT WARRANTY IS LIMITED. SEE

-888-892-2694 OR VISIT WWW.STORMTECH.COM.

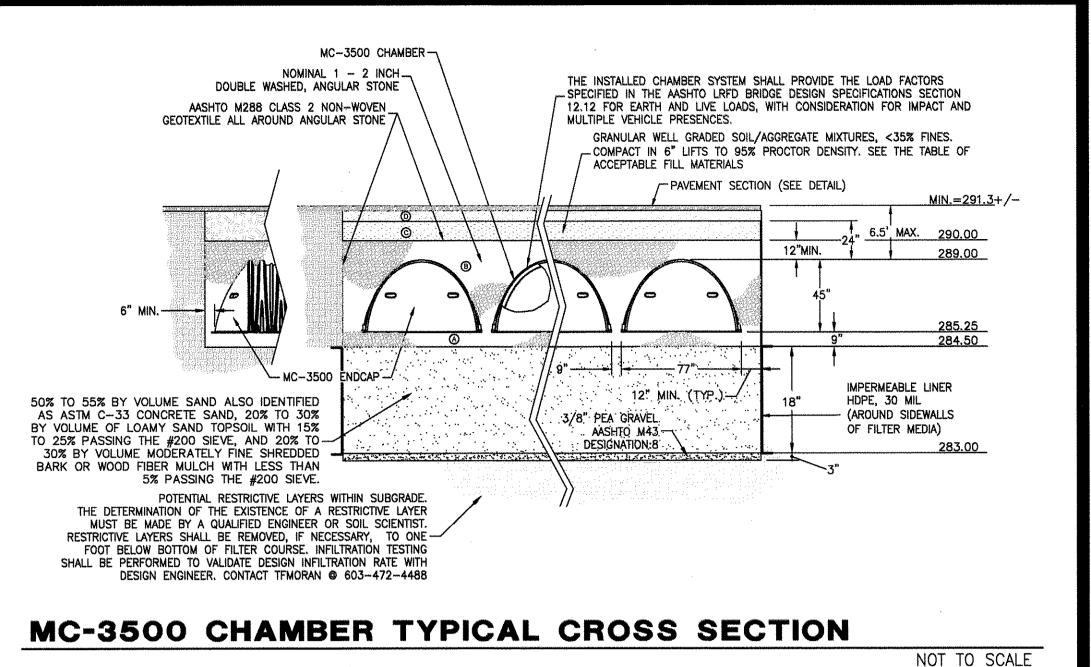
CURRENT PRODUCT WARRANTY FOR DETAILS. TO

ACQUIRE A COPY CALL STORMTECH AT

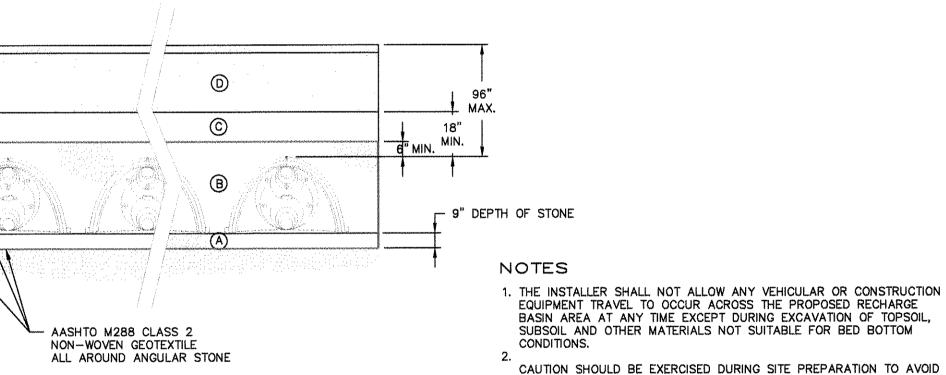


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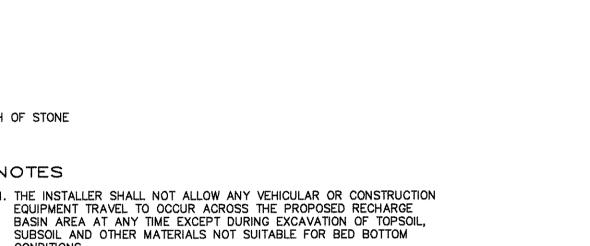


AASHTO M145 COMPACTION / DENSITY DESCRIPTION AASHTO M43 MATERIAL LOCATION DESIGNATION REQUIREMENT DESIGNATION ANY SOIL/ROCK MATERIALS, N/A N/A **D**FILL MATERIAL FROM 18" NATIVE SOILS OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS. 3, 357, 4, 467, A-1 © FILL MATERIAL FOR 6" TO 18" GRANULAR WELL-GRADED 5, 56, 57, 6, SOIL/AGGREGATE A-2 ELEVATION ABOVE CHAMBERS 67, 68, 7, 78, A-3 MIXTURES, <35% FINES. 8, 89, 9, 10 3, 357. 4 DOUBLE WASHED ANGULAR N/A STONE WITH THE MAJORITY OF 467. 5. 56. SURROUNDING AND TO A 6" PARTICLES BETWEEN 3/4 - 2 ELEVATION ABOVE CHAMBERS INCH DOUBLE WASHED ANGULAR STONE 3, 357, 4, **A FOUNDATION STONE BELOW** ∶N/A WITH THE MAJORITY OF 467, 5, 56, PARTICLES BETWEEN 3/4 - 2 57 INCH



PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
COMPACT IN 6" LIFTS TO A MINIMUM 95% STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 LBS. DYNAMIC FORCE NOT TO EXCEED 20,000 LBS.
NO COMPACTION REQUIRED
PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY
i

COMPACTION OF THE INFILTRATIVE SURFACE.



ACCEPTABLE FILL MATERIALS STORMTECH MC-3500 CHAMBER SYSTEM

,			
	6	12/31/2023	
	5	11/21/2023	
	4	10/17/2023	
	3	9/18/2023	
	2	6/23/2023	
	1	5/5/2023	
	REV.	DA TE	

UNDERGROUND STORMWATER DETENTION SYSTEM **OPERATION AND MAINTENANCE PLAN**

THE OWNER IS RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF THE PROPOSED STORMWATER COLLECTION SYSTEM INCLUDING ROUTINE INSPECTION, CLEANING AND MAINTENANCE OF MANHOLES, DEEP SUMP HOODED CATCH BASINS, CLEAN OUTS, UNDERGROUND DETENTION SYSTEMS AND REGULAR STREET SWEEPING.

SCHEDULE FOR INSPECTION AND MAINTENANCE AFTER CONSTRUCTION:

STREET SWEEPING

-STREET SWEEPING EFFORTS SHALL BE CONDUCTED AT LEAST ONCE A MONTH OUTSIDE OF WINTER MONTHS.

-SAND SWEPT FROM THE ROADWAYS AND PARKING LOTS WILL BE REMOVED TO AN APPROVED OFF-SITE LOCATION.

DEEP SUMP CATCH BASINS & LEACHING CATCH BASINS

-INLETS SHOULD BE CLEANED ANNUALLY AND INSPECTED SEMI-ANNUALLY.

-ALL SEDIMENTS, FLOATABLES, AND HYDROCARBONS SHOULD BE PROPERLY HANDLED AND DISPOSED OF, IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.

UNDERGROUND DETENTION SYSTEMS (STORMTECH ISOLATOR MC-4500 OR EQUAL)

-ISOLATOR ROWS AND PIPE HEADERS SHALL BE INSPECTED IMMEDIATELY AFTER COMPLETION OF THE SITE'S CONSTRUCTION. THE NORMAL INSPECTION SCHEDULE AFTER CONSTRUCTION FOR ISOLATOR ROWS IS SEMI ANNUAL UNTIL AN UNDERSTANDING OF THE SITE'S CHARACTERISTICS IS DEVELOPED. PIPE HEADERS SHOULD BE INSPECTED QUARTERLY AFTER CONSTRUCTION.

-INSPECTION OF THE ISOLATOR ROW SHALL INVOLVE A VISUAL CHECK USING EITHER THE INSPECTION PORTS OR AN ACCESS MANHOLE.

-IF UPON VISUAL INSPECTION OF THE ISOLATOR ROW, IT IS FOUND THAT SEDIMENT HAS ACCUMULATED TO AN AVERAGE DEPTH EXCEEDING 3 INCHES, CLEANOUT IS REQUIRED.

-CLEANOUT OF SEDIMENT WITHIN THE PIPE HEADER IS REQUIRED WHEN THE SEDIMENT VOLUME HAS REDUCED THE STORAGE AREA BY 25% OR THE DEPTH OF SEDIMENT HAS REACHED APPROXIMATELY 25% OF THE DIAMETER OF THE STRUCTURE.

-CLEANOUT OF THE ACCUMULATED MATERIAL IN THE PIPE HEADER SHOULD BE ACCOMPLISHED BY VACUUM PUMPING. CLEANOUT SHOULD BE PERFORMED DURING DRY WEATHER AND CARE SHOULD BE TAKEN TO AVOID FLUSHING SEDIMENTS OUT THROUGH THE OUTLET PIPES AND INTO THE CHAMBER ROWS.

A SITE MAINTENANCE LOG WILL BE KEPT. THIS LOG WILL RECORD THE DATES WHEN MAINTENANCE TASKS WERE COMPLETED, THE PERSON WHO COMPLETED THE TASK, AND ANY OBSERVATIONS OF MALFUNCTIONS IN COMPONENTS OF THE STORMWATER MANAGEMENT SYSTEM. CALL 1-888-892-2694 TO SPEAK TO A TECHNICAL REPRESENTATIVE OR VISIT WWW.STORMTECH.COM.



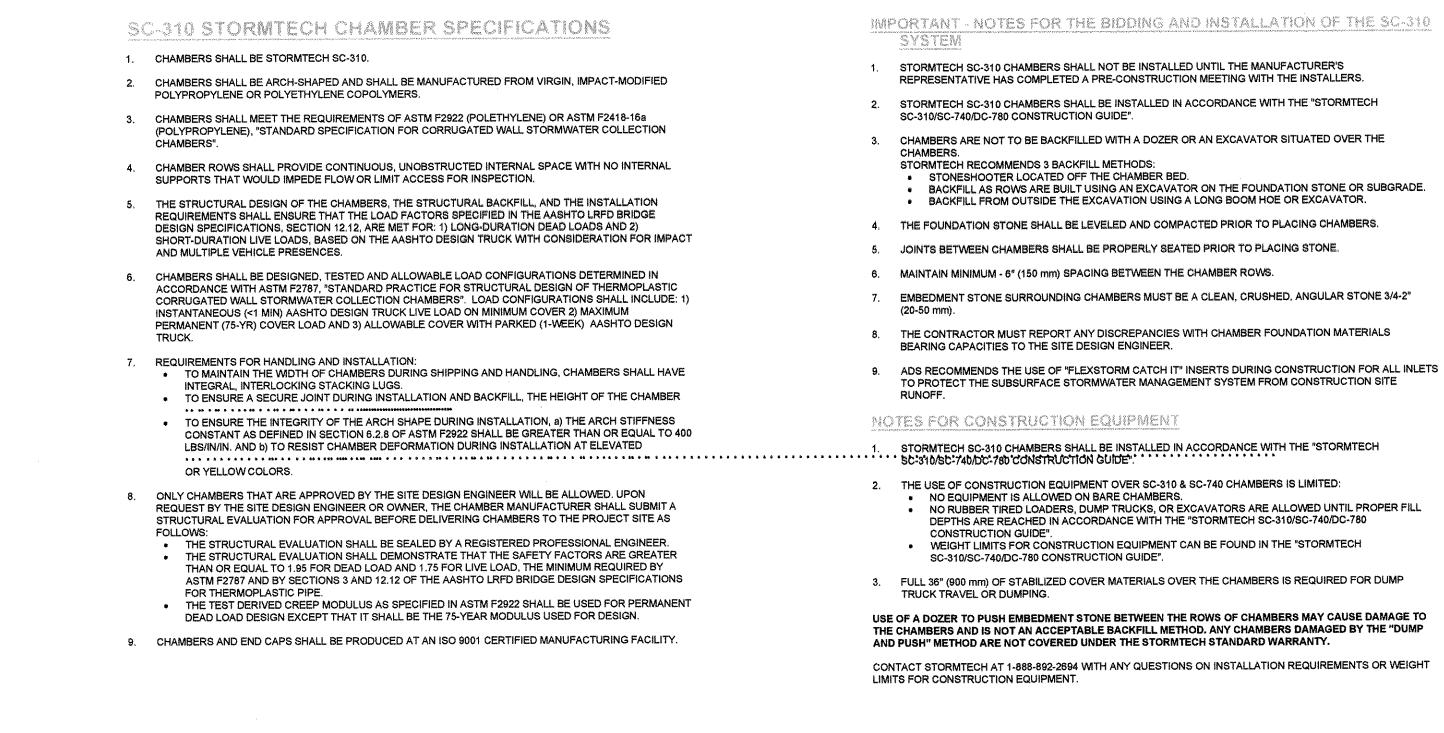


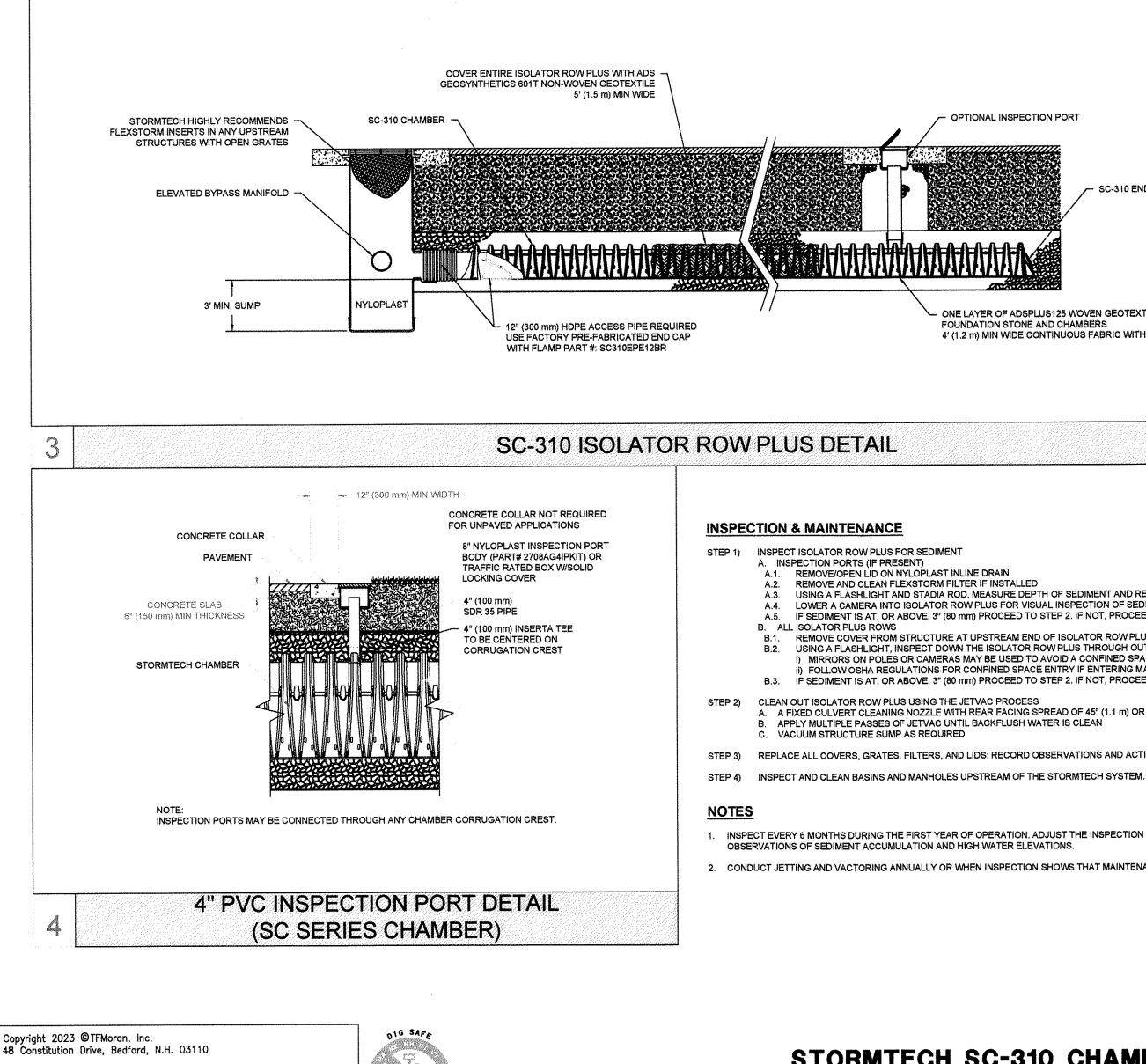
CITY ENGINEERING UMRLAC NHDES AoT CITY PLANNING / ENGINEERING CITY PLANNING / ENGINEERING JH RD ISSUE FOR PERMITTING DR CK DESCRIPTION

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CONTACT DIG SAFE 72 BUSINESS HOURS PROR TO CONSTRUCTION

STORMTECH SC-310 CHAMBER SYSTEM TYPICAL DETAILS

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310

STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH

CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE

 BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE. BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS. 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.

MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2"

8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS

TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE

2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED: NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780

3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

OPTIONAL INSPECTION PORT

ONE LAYER OF ADSPLUS125 WOVEN GEOTEXTILE BETWEEN FOUNDATION STONE AND CHAMBERS 4' (1.2 m) MIN WIDE CONTINUOUS FABRIC WITHOUT SEAMS

- SC-310 END CAP

A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL) A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

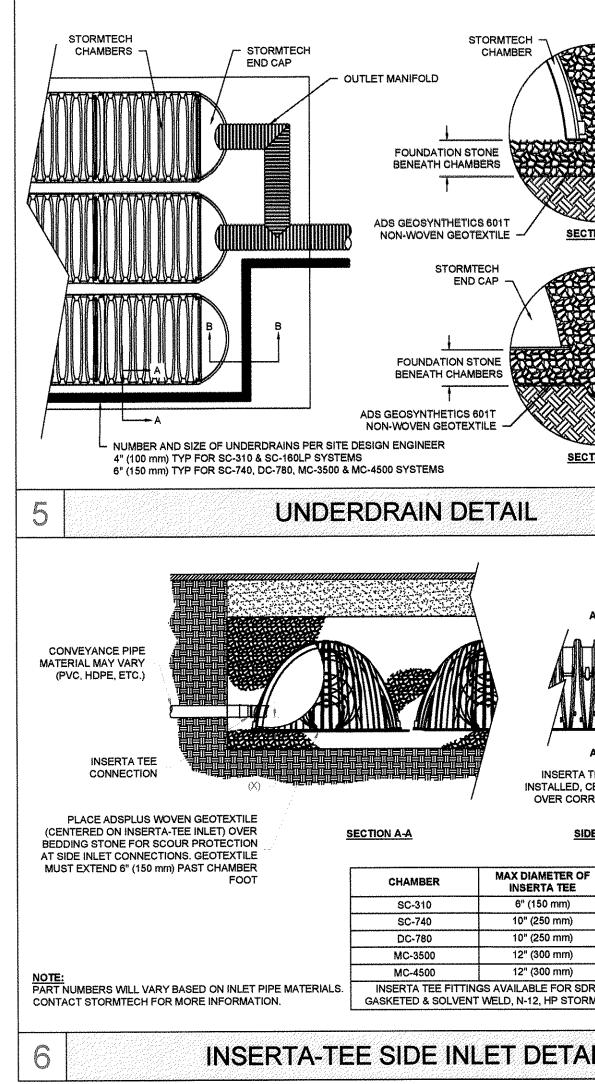
B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY i) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION, ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS

2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

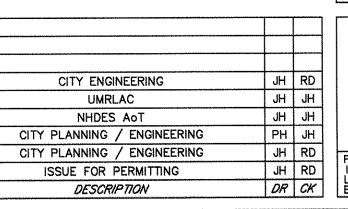


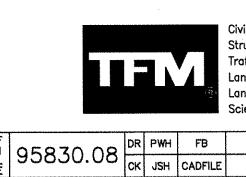
6 12/31/2023 5 11/21/2023 4 10/17/2023 3 9/18/2023 2 6/23/2023 1 5/5/2023 REV. DATE

AA DUAL WALL PERFORATED HDPE UNDERDRAIN	90.7" (2304 mm) ACTUAL LENGTH S5.4" (2169 mm) INSTALLED LENGTH BUILD ROW IN THIS DIRECTION ACTUAL LENGTH A BUILD ROW IN THIS DIRECTION START END OVERLAP NEXT CHAMBER HERE (OVER SMALL CORRUGATION)
<u>B-B</u>	9.9" (251 mm)
	NOMINAL CHAMBER SPECIFICATIONS SIZE (WX H X INSTALLED LENGTH) 34.0" X 16.0" X 85.4" (864 mm X 406 mm X 2169 mm) CHAMBER STORAGE 14.7 CUBIC FEET
DO NOT INSTALL INSERTA-TEE AT CHAMBER JOINTS	*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS
	PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR" PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
	PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T" PRE CORED END CAPS END WITH "PC" PART # STUB A B C
TO BE CONTROL STREET	SC310EPE06T / SC310EPE06TPC 6" (150 mm) 9.6" (244 mm) 5.8" (147 mm) SC310EPE06B / SC310EPE06BPC 6" (150 mm) 9.6" (244 mm) 0.5" (13 mm)
w	SC310EPE08T / SC310EPE08TPC 8" (200 mm) 11.9" (302 mm) 3.5" (89 mm) SC310EPE08B / SC310EPE08BPC 8" (200 mm) 11.9" (302 mm) 0.6" (15 mm) SC310EPE10T / SC310EPE10TPC 10" (250 mm) 0.6" (15 mm)
HEIGHT FROM BASE OF	SC310EPE10B / SC310EPE10BPC 10" (250 mm) 12.7" (323 mm) 0.7" (18 mm) SC310EPE12B 12" (300 mm) 13.5" (343 mm) 0.9" (23 mm)
CHAMBER (X) 4" (100 mm)	SC310EPE12BR 12" (300 mm) 13.5" (343 mm) 0.9" (23 mm) ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT
4" (100 mm) 4" (100 mm)	* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm).
6" (150 mm) 8" (200 mm) 5, SDR 35, SCH 40 IPS	BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.
-900 OR DUCTILE IRON	
	2 SC-310 TECHNICAL SPECIFICATIONS
	2 SC-310 TECHNICAL SPECIFICATIONS
	SITE DEVELOPMENT PLANS
	SITE DEVELOPMENT PLANS TAX MAP 06P LOT 5
NUMBER NEW AWARD	SITE DEVELOPMENT PLANS TAX MAP OGP LOT 5 CONSTRUCTION DETAILS

SCALE, AS SHOWN

MARCH 14, 2023





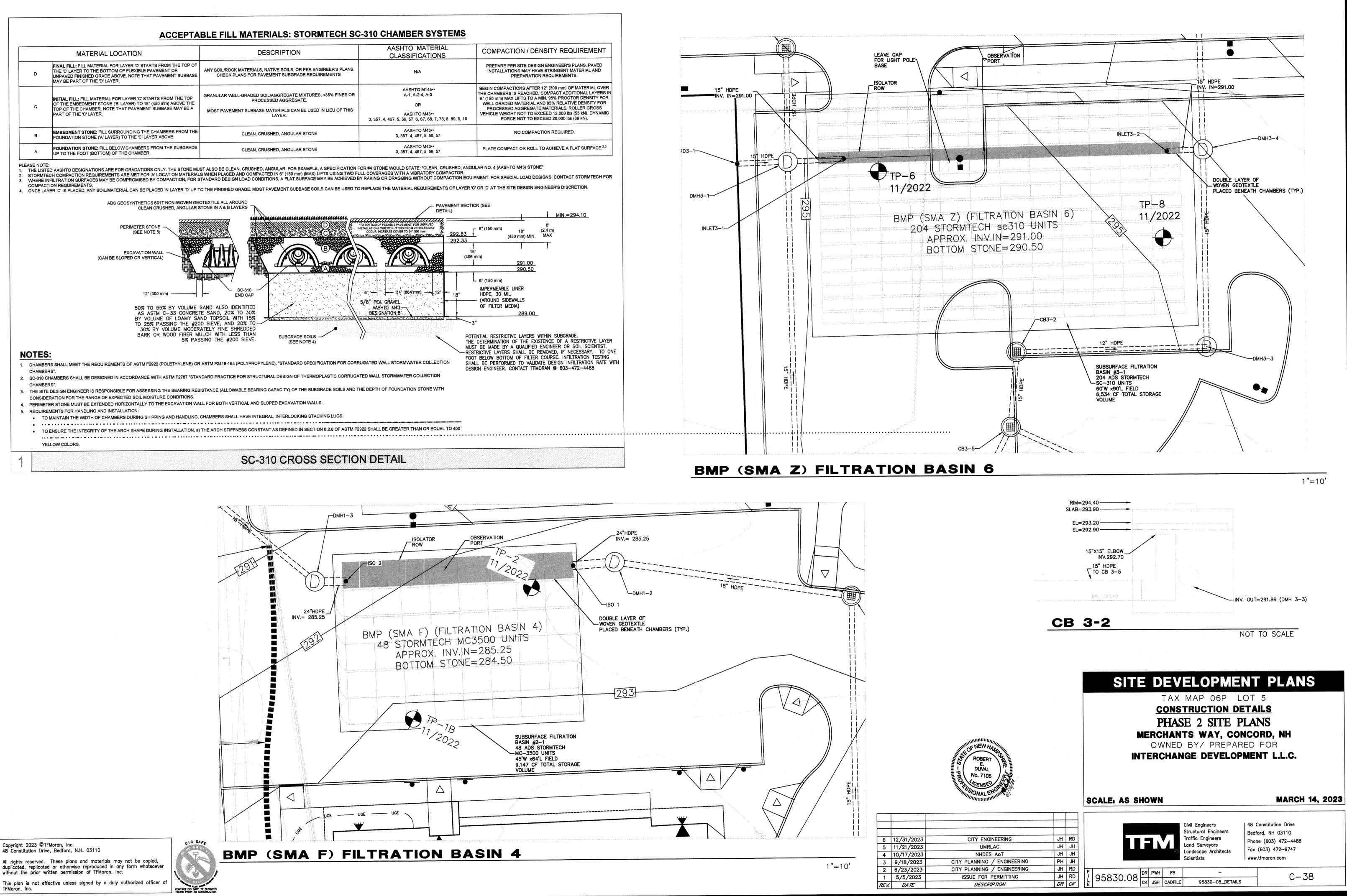
Civil Engineers Structural Engineers Traffic Engineers Land Surveyors andscape Architects Scientists

95830-08_DETAILS

48 Constitution Drive Bedford, NH 03110 Phone (603) 472-4488 Fax (603) 472-9747 www.tfmoran.com

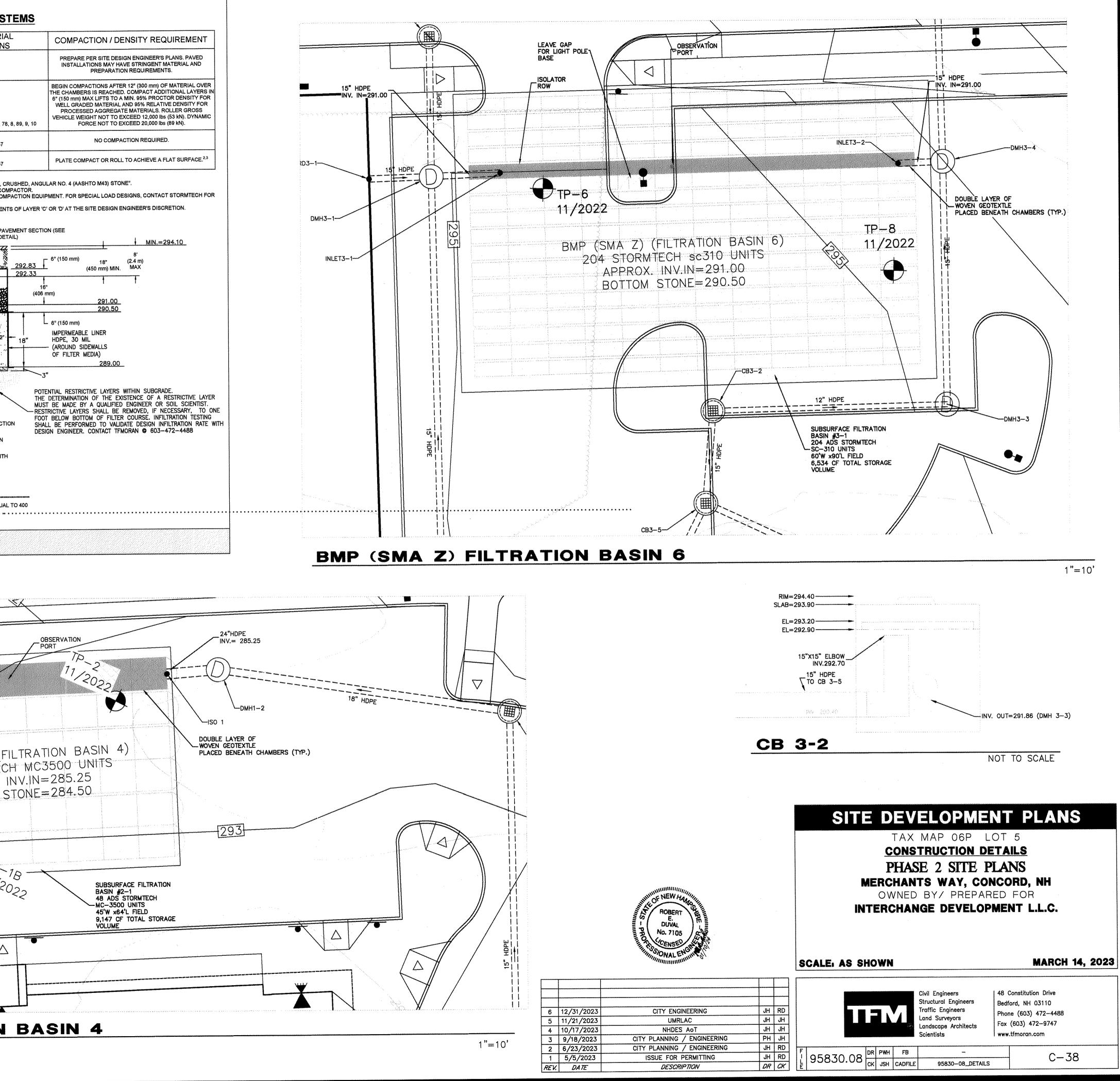
C-37

- Jane \mathcal{W} 10



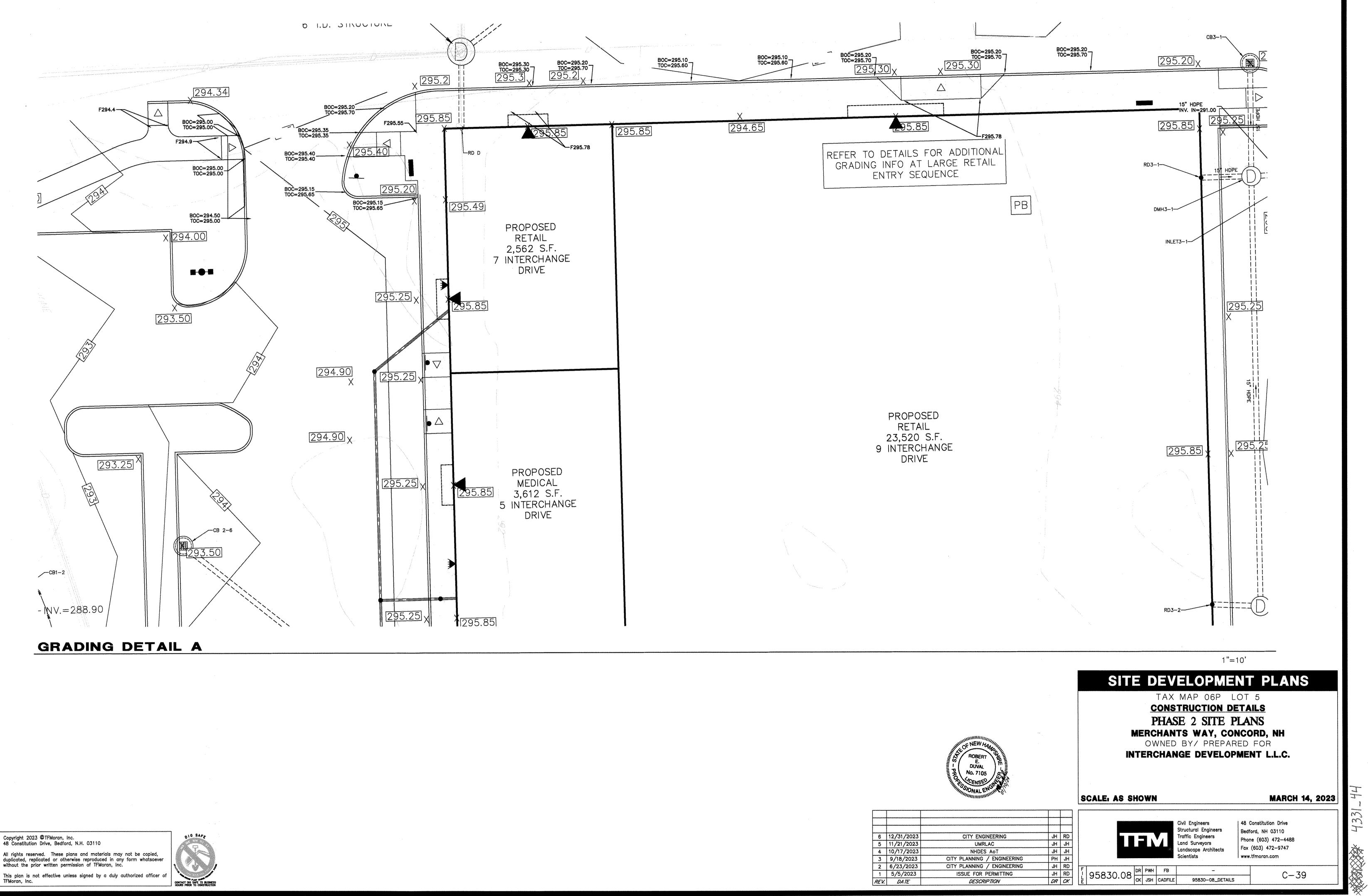
48 Constitution Drive, Bedford, N.H. 03110

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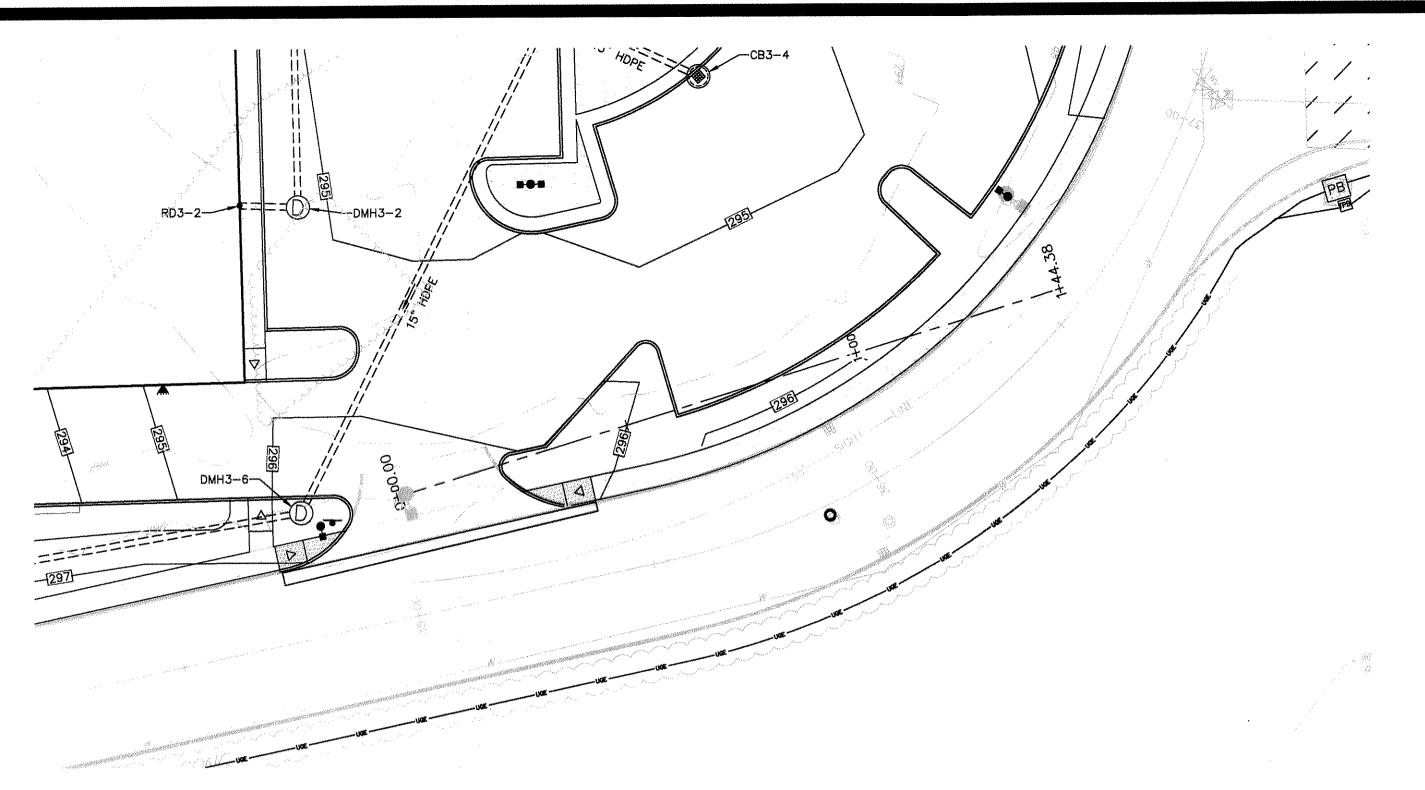
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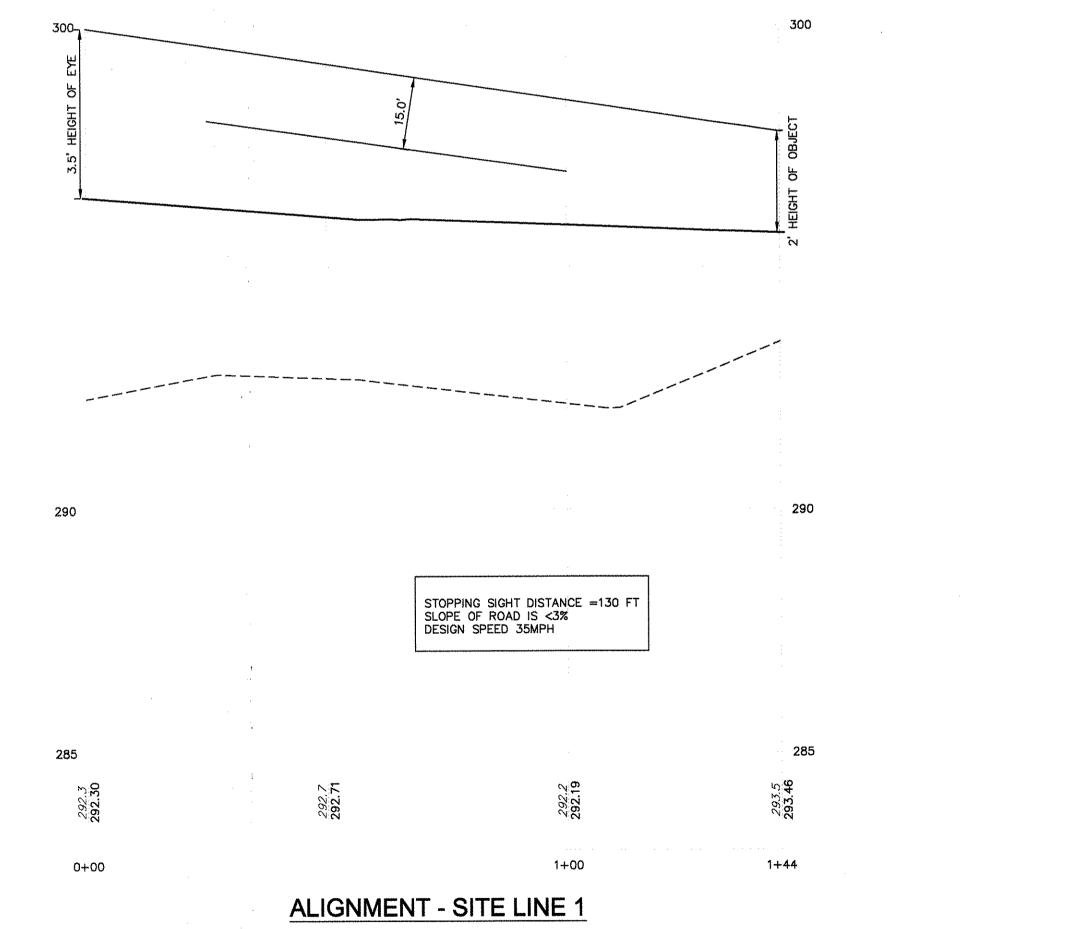
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5	11/21/2023	
4	10/17/2023	
3	9/18/2023	
2	6/23/2023	
1	5/5/2023	
REV.	DA TE	







SIGHT DISTANCE PROFILE- STOPPING (AASHTO)

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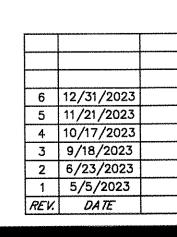
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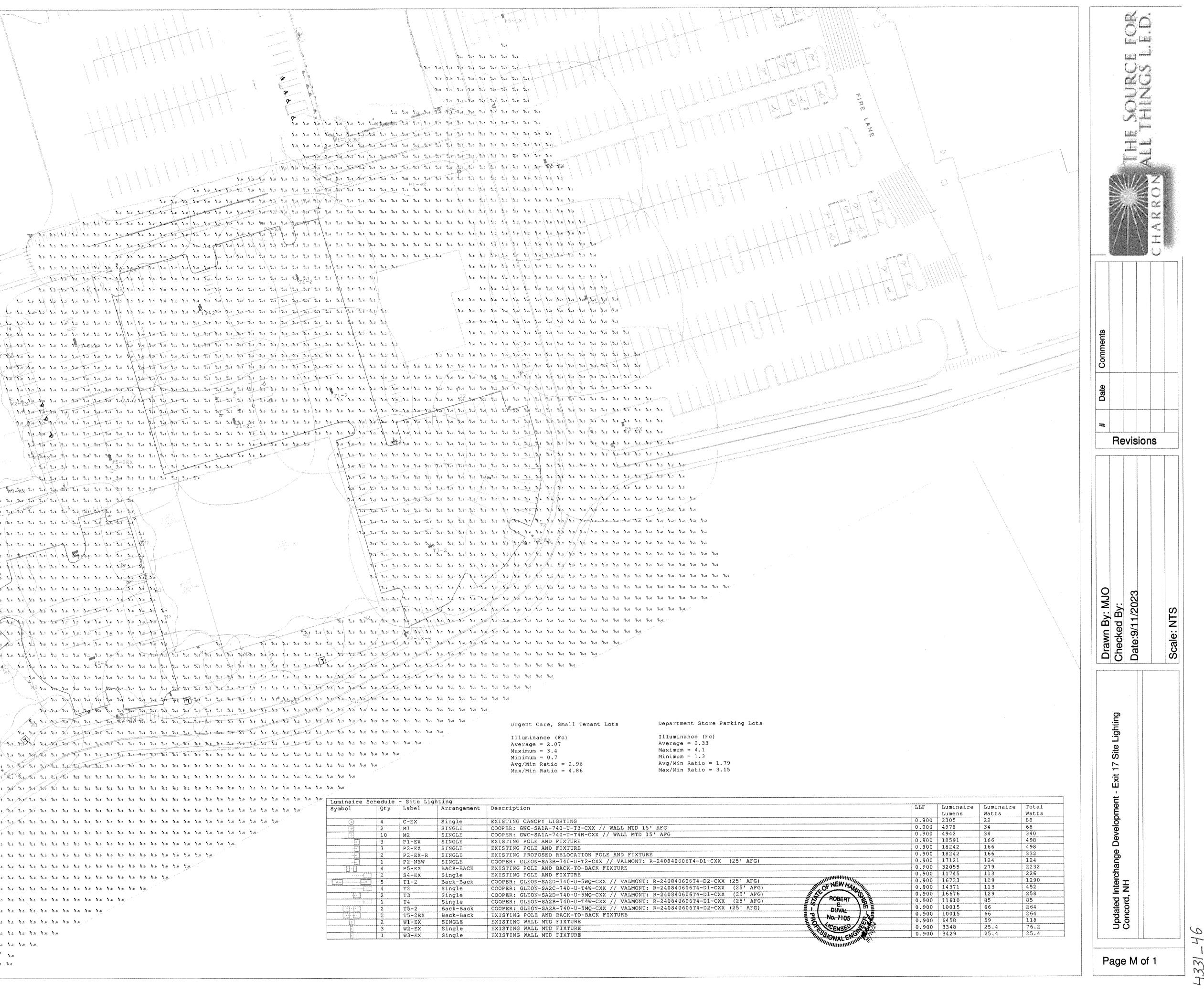


1"=20'

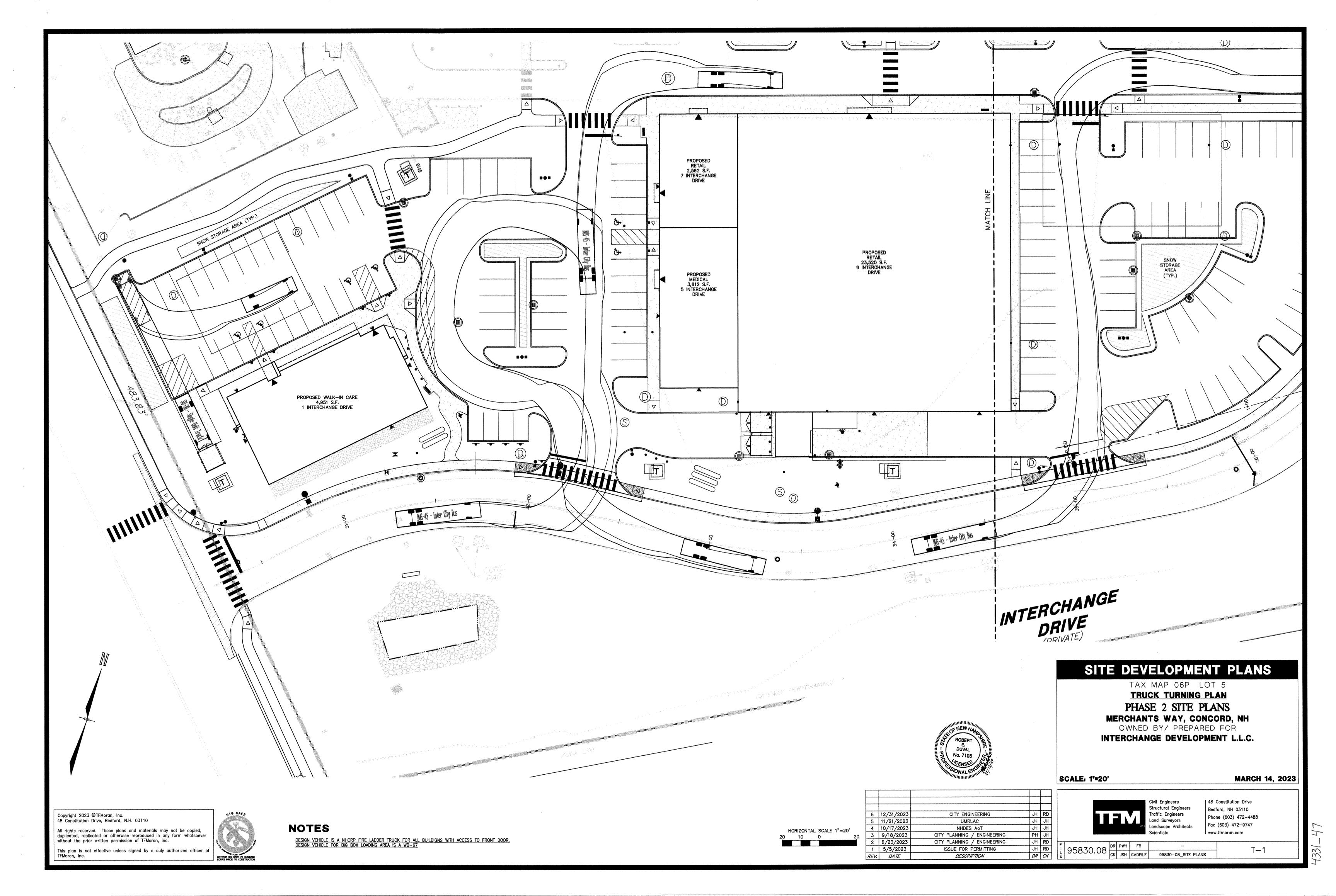


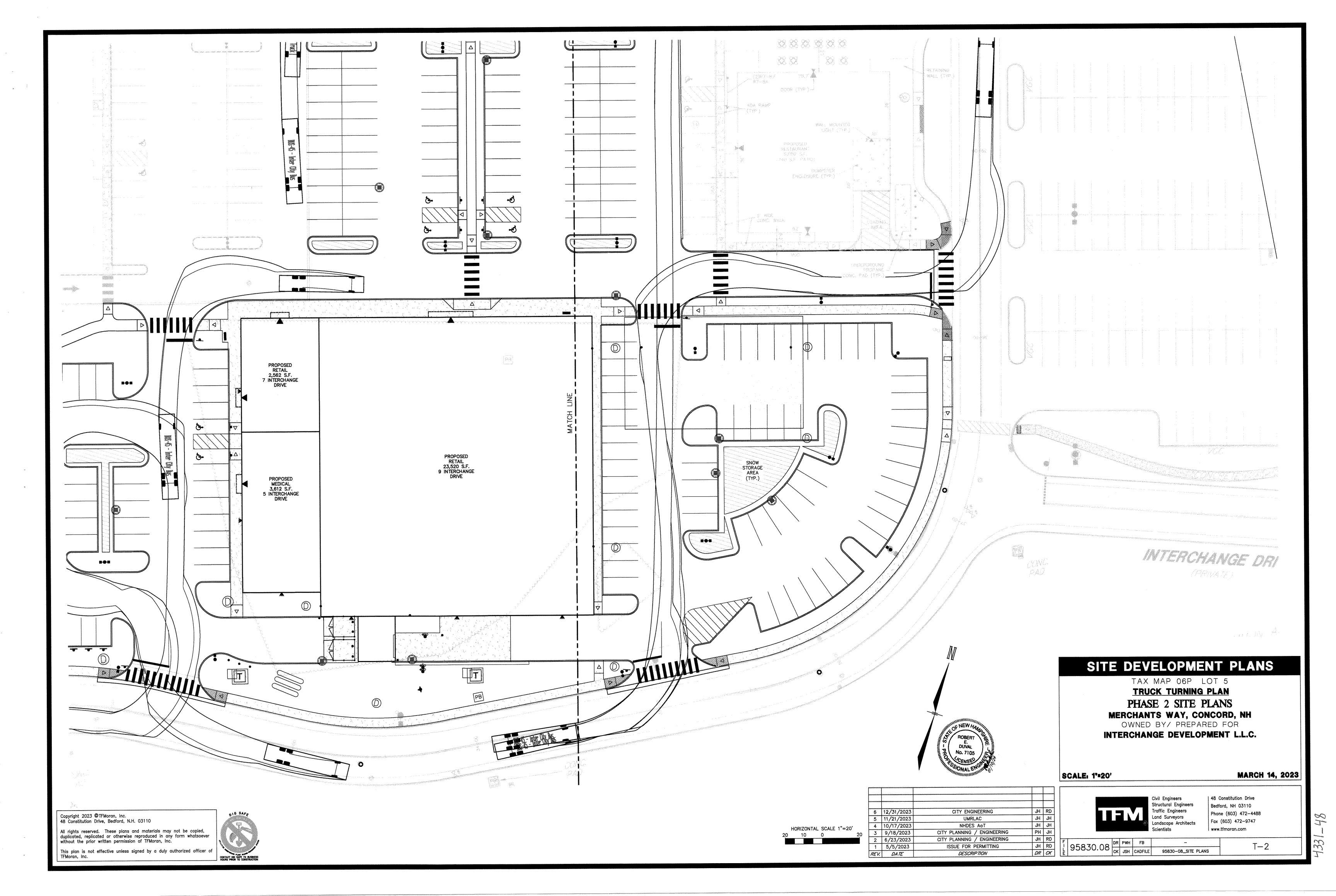
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CITY ENGINEERING UMRLAC NHDES AoT CITY PLANNING / ENGINEERING CITY PLANNING / ENGINEERING	JH JH JH JH PH JH	RD JH JH JH RD	F			Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists	Bedf Phor Fax	Constitution Drive ford, NH 03110 ne (603) 472–4488 (603) 472–9747 .tfmoran.com	<u> </u>
ISSUE FOR PERMITTING DESCRIPTION	JH DR	RD CK	1 9583C).08 ск јун	CADFILE	95830-08_DETAILS		C-40	(((

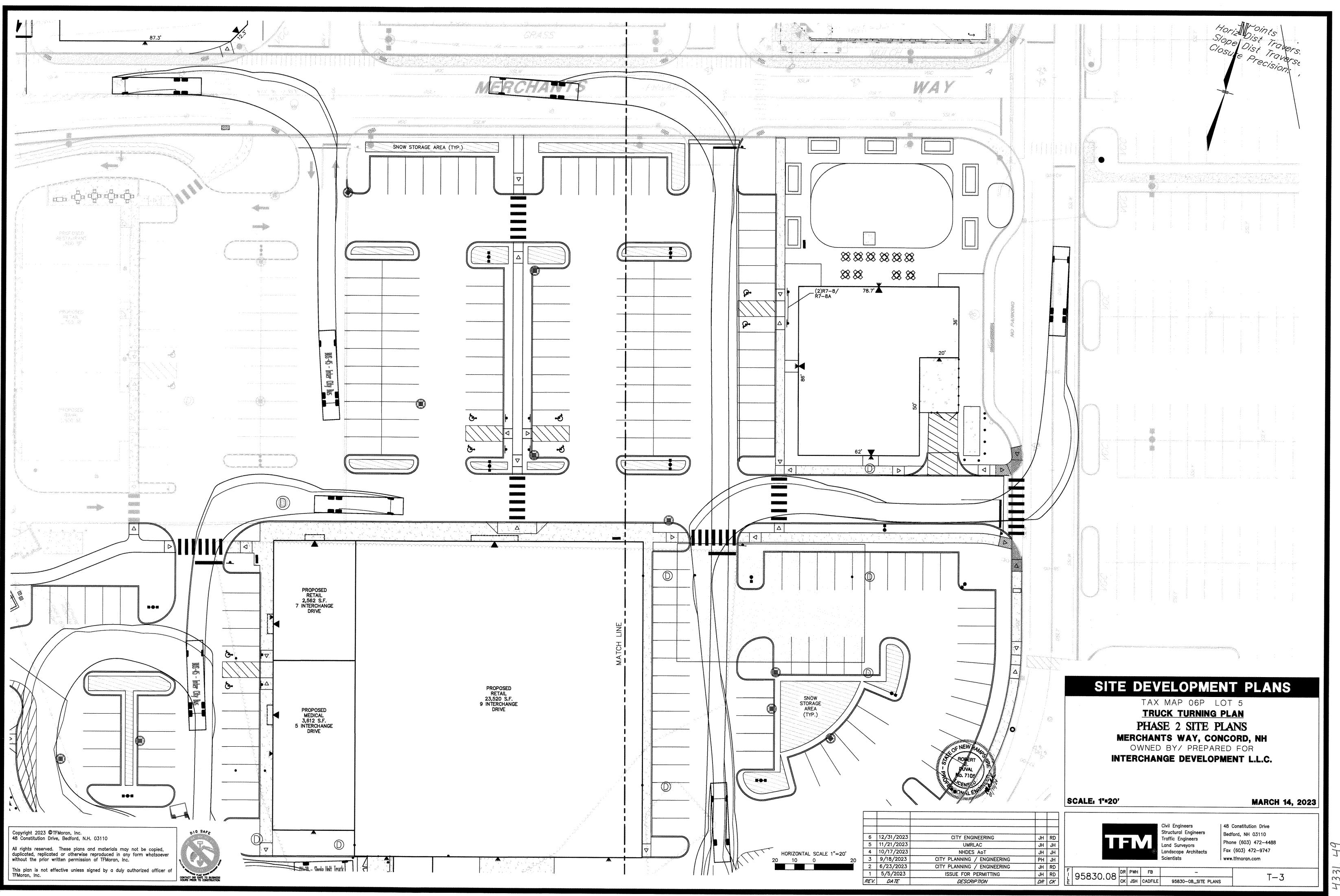
5.0 2.2 2.0 2.0 1. 1. 1. 1. 1. 1. 2.0 2.2 2.4 2.7 2.0 2.1 2.7 2.0 2.7 3.0 2.1 2.7 2.0 2.7 2.0 2.1 3.7 2.0 2.1 1 3.0 1.0 1.0 2.1 2.0 1.0 2.3 2.0 1.0 2.3 2.3 1.0 1.0 1.0 1.0 1.0 2.0 2.0 2.0 2.0 - 1. 1. 1. 1. 2.1 2.1 2.5 1 2.2 1.0 2.6 (1.4 Ma) 2.4 T.6 5 3 20 1.7 2.3 2 2.8 2.0 2.3 2.4 2.3 2.0 1.7 30 2. x 2. 1. 1. 1. 2. 2. 2. 2. 1. 1. 1. 1. 2. 2. 2. 2. 1. 1. 1. 1. 2. 2. 2. 2. 2. 2. 3.7 3.8 3.9 3.0 3.1 2.1 2.6 3.5 2.4 9.5 3.1 2.2 2.4 3.4 2.0 12 1.2 2.4 1.5 2.4 2.5 3.0 3.1 3. 2.2 3. 2.0 3.0 3.0 3.0 3.0 3.0 3.1 3.3 3.6 3.0 3.2 3.4 3.0 3.0 3.0 4.6 0.7 0.9 1.3 2 2.6 2.6 2.6 2.6 2.6 0.9 0.9 0.9 1.1 1.2 1.5 1.8 2.2 2.4 2.5 2.6 2.5 2.6 2.4 2.5 3.7 2.0 2.4 2.9 3.6 3.6 2.4 3.6 2.4 2.4 2.4 2.0 no 2.2 2.4 2.7 2.0 2.9 2.7 3.4 2.4 2.6 3.6 3.6 3.6 3.6 3.0 3.0 3.6 3.6 3.6 3.7 2.0 3.6 3.1 3.0 3.6 3.6 3.6 3.6 3.6 3.7 3.8 3.7 3.8 3.7 3.6 3.4 3.6 3.6 3.7 3.0 3.8 3.6 3.4 3.2 3.1 2.3 3.8 3.8 3.8 5.0 3.0 3.0 3.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.1 5.1 5.2 5.4 5.6 5.9 21 1.4 3.6 3.7 3.6 3.6 3.9 2.3 3.6 3.3 3.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.1 5.1 5.1 5.2 5.3 5.5 5.7 2. 2.4 A. St. 5.0 b.0 b.0 b.0 b.0 b.0 b.0 b.0 b.1 b.1 b.2 b.3 b.5 b.6 b.e 4.1 1.6 3.5 5.0 b.c b.c b.c b.c b.c b.c b.c b.c b.t b.1 b.2 b.4 b.5 b.7 b.9 t.c 1.3 2.2 3.3 M 1.6 1.9 3.0 3.0 3.6 3.6 3.6 3.2 2.1 2.1 2.1 3.1 0.0 0.0 0.5 6.8 6.3 6.3 6.4 6.4 6.4 6.4 6.3 6.3 6.3 6.3 6.2 6.2 6.2 6.2 6.1 6.1 6.1 6.1 6.0 6.0 6.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.1 5.1 5.2 5.3 10.6 5.8 1.0 1.1 5.2 5.3 10.6 5.8 1.0 1.1 5.2 5.9 1.7 1.7 ້າ.0 ້າ.6 ້າ.6 ້າ.6 ້າ.0 ້າ.0 ້າ.0 ້າ.1 ້າ.1 ້າ.2 _{້າ.2} ້າ.2 ້າ.2 ້າ.2 ້າ.2 ້າ.1 ້າ.1 ້າ.0 ້າ.0 ້າ.0 ້າ.0 ້າ.0 ້າ.0 ວ.5 ວ.6 ວ.6 ວ.6 ວ.6 ວ.6 ວ.6 ວ.6 ວ.6 ວ.3 ວ.1 ວ.1 ວ.1 ວ.1 ວ.6 ວ.6 ວ.6 ວ.6 ວ.6 ວະດີ ລະດີ ຈະດີ ຈະດີ ຈະດີ ຈະດີ ຈະດີ ຈະດີ ຈະດີ ວະອີ ບະອີ ບະອີ ບະອີ ບະອີ ບະອີ ບະອີ



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