

# SITE PLAN FOR PARKING LOT EXPANSION 120 CONSTITUTION BLVD FRANKLIN, MA.

**HOWARD STEIN HUDSON**  
114 Turnpike Road, Suite 2C  
Chelmsford, MA 01824  
www.hshassoc.com

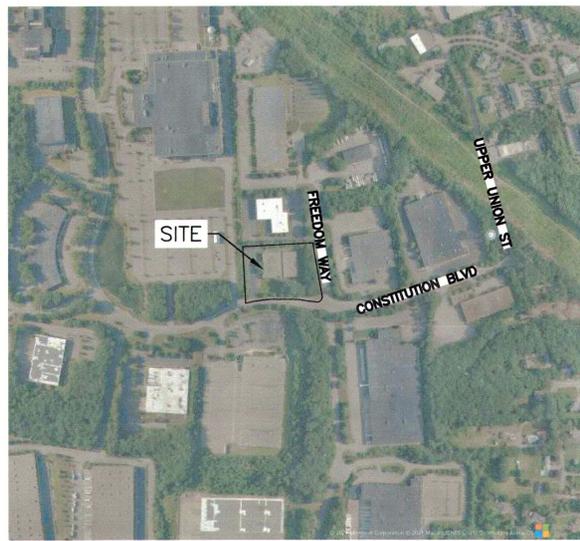
**OWNER:**  
LRF2 BOS CONSTITUTION BLVD, LLC  
50 TICE BOULEVARD - SUITE A28  
WOODCLIFF LAKE, NJ 07677

**APPLICANT:**  
ahp ARCHITECTS, INC.  
THE OFFICES AT BOOT MILLS  
116 JOHN STREET SUITE 115  
LOWELL, MA 01852

**PARKING LOT EXPANSION  
120 CONSTITUTION BLVD  
FRANKLIN, MA, 02038**

**GENERAL NOTES:**

1. EXISTING PROPERTY LINE AND UTILITY INFORMATION SHOWN IS BASED ON AN EXISTING SURVEY CONDUCTED BY WSP, INC DATED JULY 22, 2021
2. THE ACCURACY AND COMPLETENESS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE, TYPE, ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. AT LEAST 72 HOURS BEFORE EXCAVATION, THE CONTRACTOR SHALL BE REQUIRED TO CONTACT DIGSAFE AT 1-888-344-7233.
3. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE APPROPRIATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
5. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, PRIOR TO EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAVING.
6. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED, REMOVED AND DISPOSED.
7. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS AT HIS/HER OWN EXPENSE, OUTSIDE OF THE PROJECT LIMITS.



**LOCUS MAP  
1"=500'**

**OWNER**

LRF2 BOS CONSTITUTION BLVD, LLC  
50 TICE BOULEVARD - SUITE A28  
WOODCLIFF LAKE, NJ 07677

**ASSESSORS INFORMATION**

ASSESSORS MAP 319 LOT 16

**REFERENCES**

1. EXISTING CONDITIONS SURVEY BY WSP, LLC DATED JULY 22, 2021

**ZONING REQUIREMENTS**

INDUSTRIAL ZONE  
THE BUILDING FOOTPRINT IS TO REMAIN UNCHANGED, THE SITE PLAN IS FOR THE CONSTRUCTION OF ADDITIONAL PARKING ON THE PARCEL.

**PARKING REQUIREMENTS**

INDUSTRIAL ESTABLISHMENT  
1 SPACE PER 400 SF GROSS FLOOR AREA  
GROSS FLOOR AREA = 29,886 SF X 1 SP/400 SF = 75 SPACES REQUIRED  
EXISTING SPACES = 23 SPACES  
PROPOSED SPACES CONSTRUCTION/RESTRIPING = 69 SPACES \*SEE WAIVER 1

**SITE PLAN WAIVERS REQUIRED**

1. PER ARTICLE V SPECIAL REGULATIONS, 185-21, B(3)(b)(i) INDUSTRIAL PARKING SCHEDULE REQUIREMENTS.

**SHEET INDEX**

SHEET C.1	TITLE SHEET
SHEET C.2	DEMOLITION PLAN
SHEET C.3	LAYOUT AND MATERIALS PLAN
SHEET C.4	GRADING, DRAINAGE AND UTILITY SHEET
SHEET C.5	LANDSCAPE PLAN
SHEET C.6	LIGHTING PLAN
SHEET C.7	DETAIL SHEET 1 OF 2
SHEET C.8	DETAIL SHEET 2 OF 2
SHEET C.9	DETAIL SHEET 3 OF 3

**EXISTING CONDITIONS PLAN**

<b>LEGEND</b>		
⊙ DRILL HOLE FOUND	— SIGN (SINGLE POSTED)	— ABUTTERS LOT LINE
⊙ IRON PIPE FOUND	— SIGN (DOUBLE POSTED)	— PROPERTY LINE
⊙ ROUND CATCH BASIN	○ POST	— EASEMENT
◁ CULVERT	⊙ MONITORING WELL	— CHAIN LINK FENCE
⊙ DRAIN MANHOLE	⊙ BOLLARD	— METAL FENCE
⊙ NO LABEL MANHOLE	♿ HANDICAP PARKING	— STONE WALL
⊙ SEWER MANHOLE	— WATER LINE MARKER	— TREE LINE
⊙ ELECTRIC METER	⊙ VENT	— INTERMEDIATE CONTOURS
⊙ GAS METER	BMK BENCHMARK	— INDEX CONTOURS
⊙ GAS VALVE	BOMO BOLT OVER MAIN OUTLET	— SEWER LINE
⊙ WATER GATE	EOP EDGE OF PAVEMENT	— DRAIN LINE
⊙ FIRE HYDRANT	BC BITUMINOUS CURB	— WATER LINE
⊙ GUY WIRE	FFE FINISHED FLOOR ELEVATION	— GAS LINE
⊙ UTILITY POLE WITH RISER	SRW STONE RETAINING WALL	— OVERHEAD WIRES
⊙ UTILITY POLE	CRW CONCRETE RETAINING WALL	— RECORD WATER LINE
⊙ UTILITY POLE WITH LIGHT AND RISER	PVC POLYVINYL CHLORIDE	— RECORD UNDERGROUND ELECTRIC
⊙ DECIDUOUS TREE	INV. INVERT	
⊙ CONIFER TREE	NPV NO PIPES VISIBLE	
⊙ SHRUB		

**PROJECT TEAM:**

**OWNER**  
LRF2 BOS CONSTITUTION BLVD, LLC  
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WOODCLIFF LAKE, NJ 07677

**APPLICANT**  
ahp ARCHITECTS, INC  
THE OFFICES AT BOOT MILLS  
116 JOHN STREET SUITE 115  
LOWELL, MA 01852

**SURVEYOR**  
WSP USA, INC  
9 EXECUTIVE PARK DRIVE  
SUITE 101  
MERRIMACK, NH 03054

**WETLAND SCIENTIST**  
WILLIAMS AND SPARAGES  
189 NORTH MAIN STREET  
MIDDLETON, MA 01949

APPROVAL UNDER SITE PLAN REQUIRE BY FRANKLIN PLANNING BOARD

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

BEING A MAJORITY DATE: \_\_\_\_\_

REVISIONS:			
NO	BY	DATE	DESCRIPTION



SITE PLAN

COVER SHEET

DATE:	08/20/21
PROJECT NUMBER:	21123
DESIGNED BY:	KL
DRAWN BY:	KL
CHECKED BY:	KE

C1

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Printed by: Katie Enright



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 FRANKLIN, MA, 02038

**REVISIONS:**

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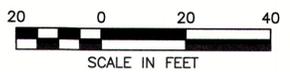
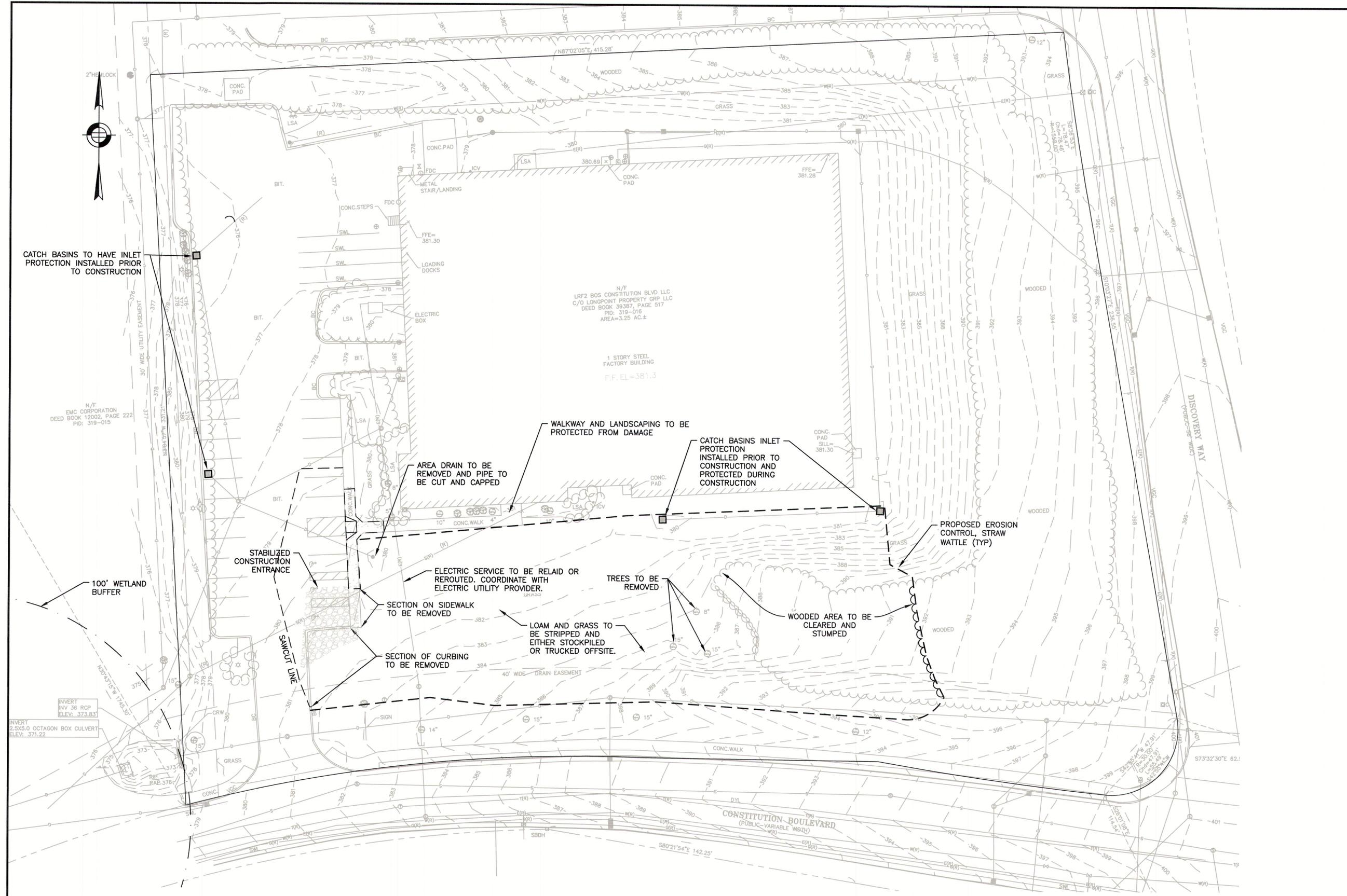
**SITE PLAN**

**DEMOLITION PLAN**

<b>DATE:</b>	08/20/21
<b>PROJECT NUMBER:</b>	21123
<b>DESIGNED BY:</b>	KL
<b>DRAWN BY:</b>	KL
<b>CHECKED BY:</b>	KE

C2

SHEET 2 OF 8





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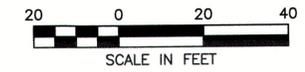
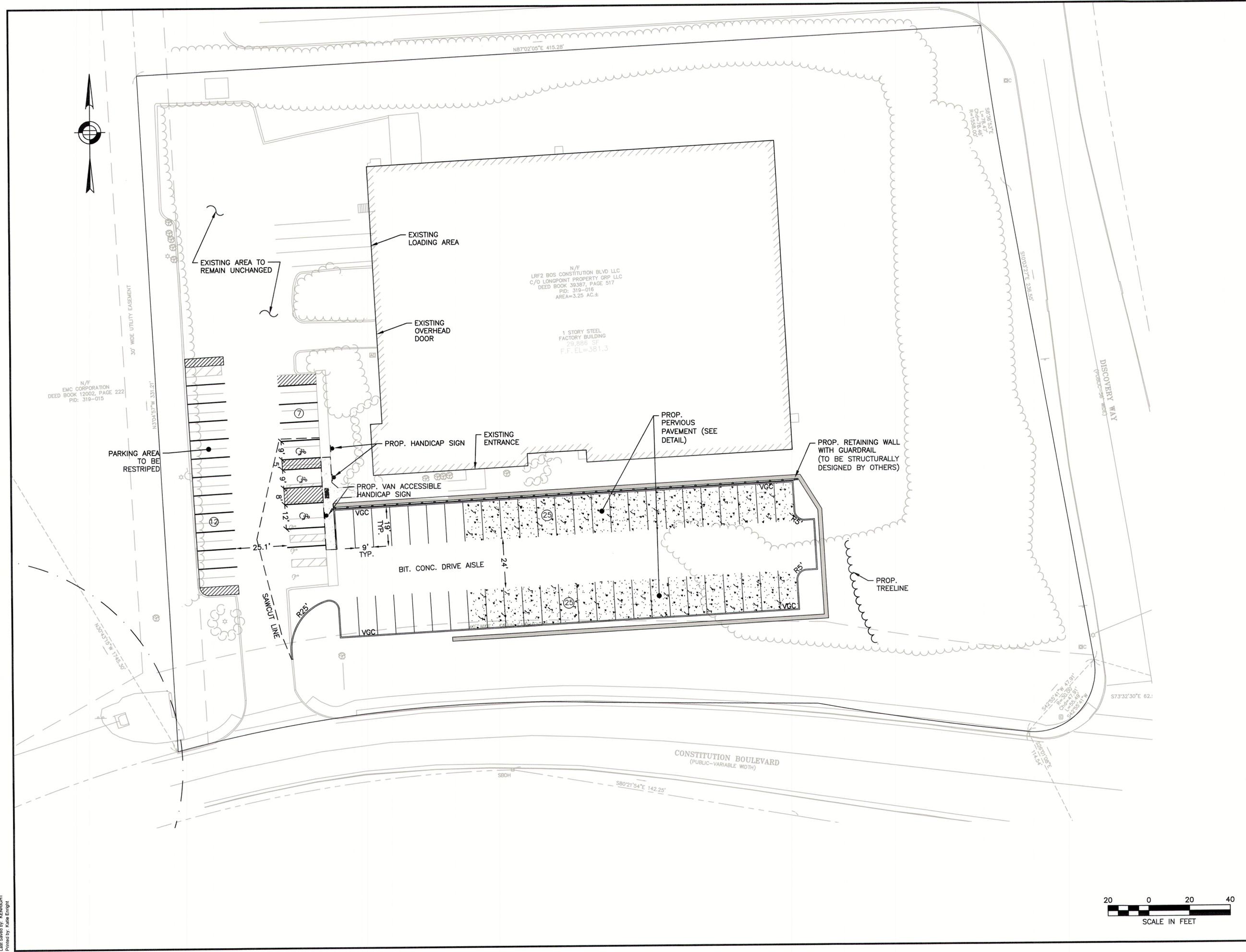
**SITE PLAN**

**LAYOUT & MATERIALS PLAN**

**DATE:** 08/20/21  
**PROJECT NUMBER:** 21123  
**DESIGNED BY:** KL  
**DRAWN BY:** KL  
**CHECKED BY:** KE

C3

SHEET 3 OF 8



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**SOIL EVALUATION TEST PITS**  
AUGUST 13, 2021  
PERFORMED BY DAN HAZEN, SOIL EVALUATOR

**DH-1 (EL. 382.0±)**  
0'-6" - LOAM  
6'-24" - FILL  
24'-36" - A SANDY LOAM  
36'-42" - G.LAY SANDY LOAM  
42'-84" - C SANDY LOAM

**MOTTLING @ 44"**  
ESHGW = 378.33

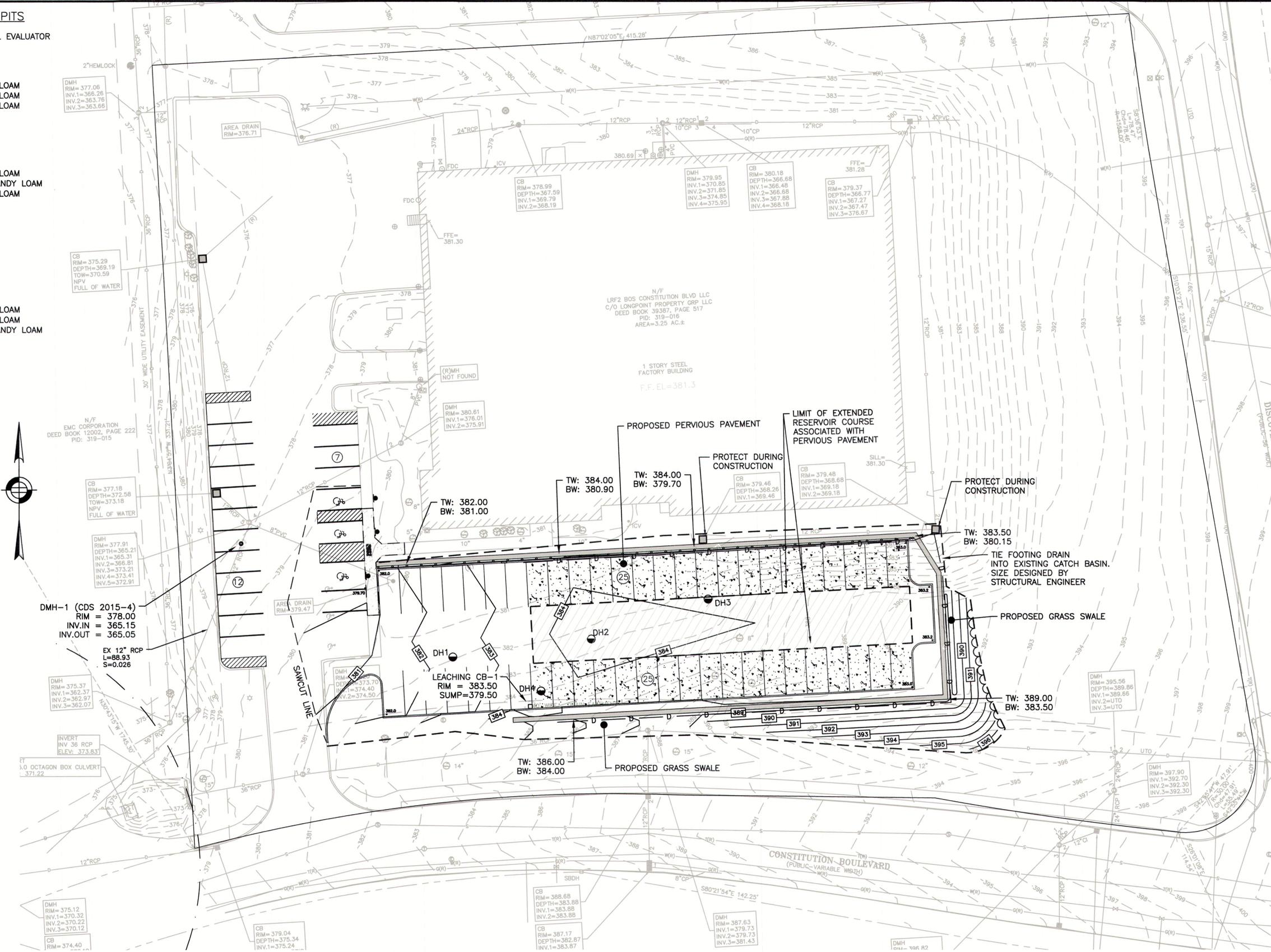
**DH-2 (EL. 382.5±)**  
0'-18" - FILL  
18'-24" - A SANDY LOAM  
24'-27" - G.LAY FINE SANDY LOAM  
27'-84" - C SANDY LOAM

**MOTTLING @ 45"**  
ESHGW = 378.75

**DH-3 (EL. 382.8±)**  
0'-18" - FILL  
18" - REFUSAL-STUMP

**DH-4 (EL. 384.0±)**  
0'-48" - FILL  
48'-54" - A SANDY LOAM  
54'-60" - B SANDY LOAM  
60'-84" - C FINE SANDY LOAM

**MOTTLING @ 66"**  
ESHGW = 378.5



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**SITE PLAN**

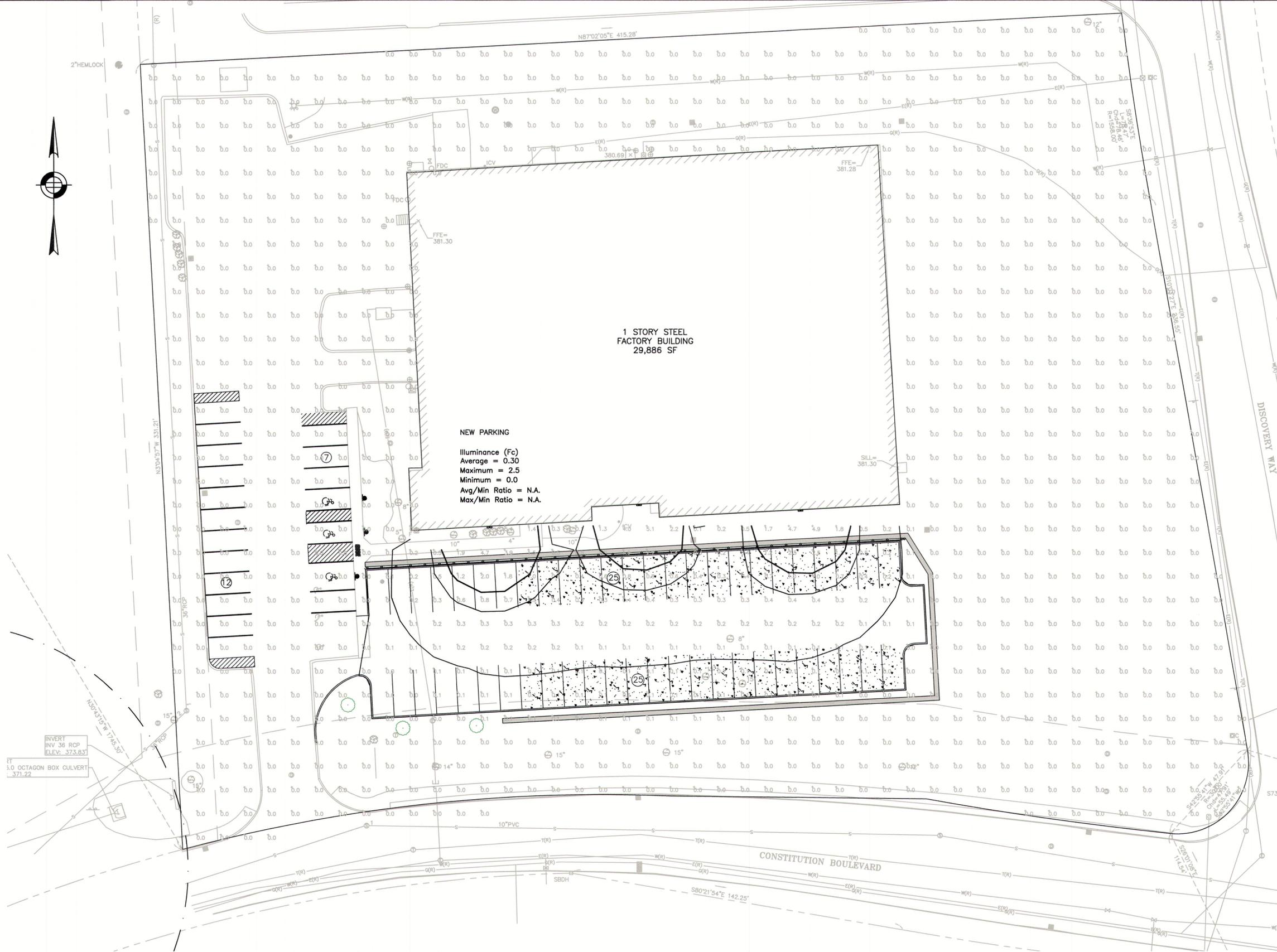
**GRADING, DRAINAGE & UTILITY**

DATE: 08/20/21  
PROJECT NUMBER: 21123  
DESIGNED BY: KL  
DRAWN BY: KL  
CHECKED BY: KE

C4



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**NEW PARKING**  
 Illuminance (Fc)  
 Average = 0.30  
 Maximum = 2.5  
 Minimum = 0.0  
 Avg/Min Ratio = N.A.  
 Max/Min Ratio = N.A.

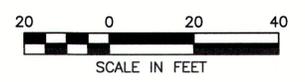
**1 STORY STEEL  
 FACTORY BUILDING  
 29,886 SF**

INVERT  
 INV 36 RCP  
 ELEV. 373.83  
 3.0 OCTAGON BOX CULVERT  
 371.22

Luminaire Schedule			
Symbol	Qty	Label	Description
	3	WALLPACK	EXISTING

Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE	Fc	0.09	5.4	0.0	N.A.	N.A.
NEW PARKING	Fc	0.30	2.5	0.0	N.A.	N.A.

NOTE:  
 1. LIGHTING PLAN AND CALCULATIONS ARE BASED ON EXISTING WALL PACKS ON THE EXISTING 1-STORY BUILDING.



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SITE PLAN

LIGHTING PLAN

DATE:	08/20/21
PROJECT NUMBER:	21123
DESIGNED BY:	KL
DRAWN BY:	KL
CHECKED BY:	KE

C5

**NOTES:**

1. ALL PROPOSED TREES SHALL BE AT LEAST 4" IN CALIPER.
2. PLANTER BEDS SHALL BE PLANTED WITH SHREDDED PINE BARK MULCH.
3. PLANTER BEDS SHALL BE EXCAVATED TO A DEPTH OF 8" BELOW FINISH GRADE, AND THE BOTTOM OF THE BED SHALL BE SCARIFIED, AND BACKFILLED WITH LOOSE, FRIABLE, ORGANIC LOAM OR COMPOST.
4. AREAS TO BE SEEDED SHALL BE BROUGHT TO AN ELEVATION OF 6" BELOW THE PROPOSED FINISHED GRADE.
5. SEED SHALL BE BROADCAST EVENLY AND WORKED INTO THE TOP 1" OF SOIL.
6. THE RECOMMENDED PLANTING AND SEEDING DATES ARE BETWEEN MARCH 15-JUNE 15 AND SEPTEMBER 15-NOVEMBER 15
7. NATIVE PLANTS SHALL BE CHOSEN FROM THE "TOWN OF FRANKLIN BEST DEVELOPMENT PRACTICES GUIDEBOOK" LIST OF NATIVE SPECIES.

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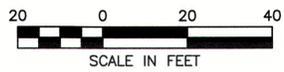
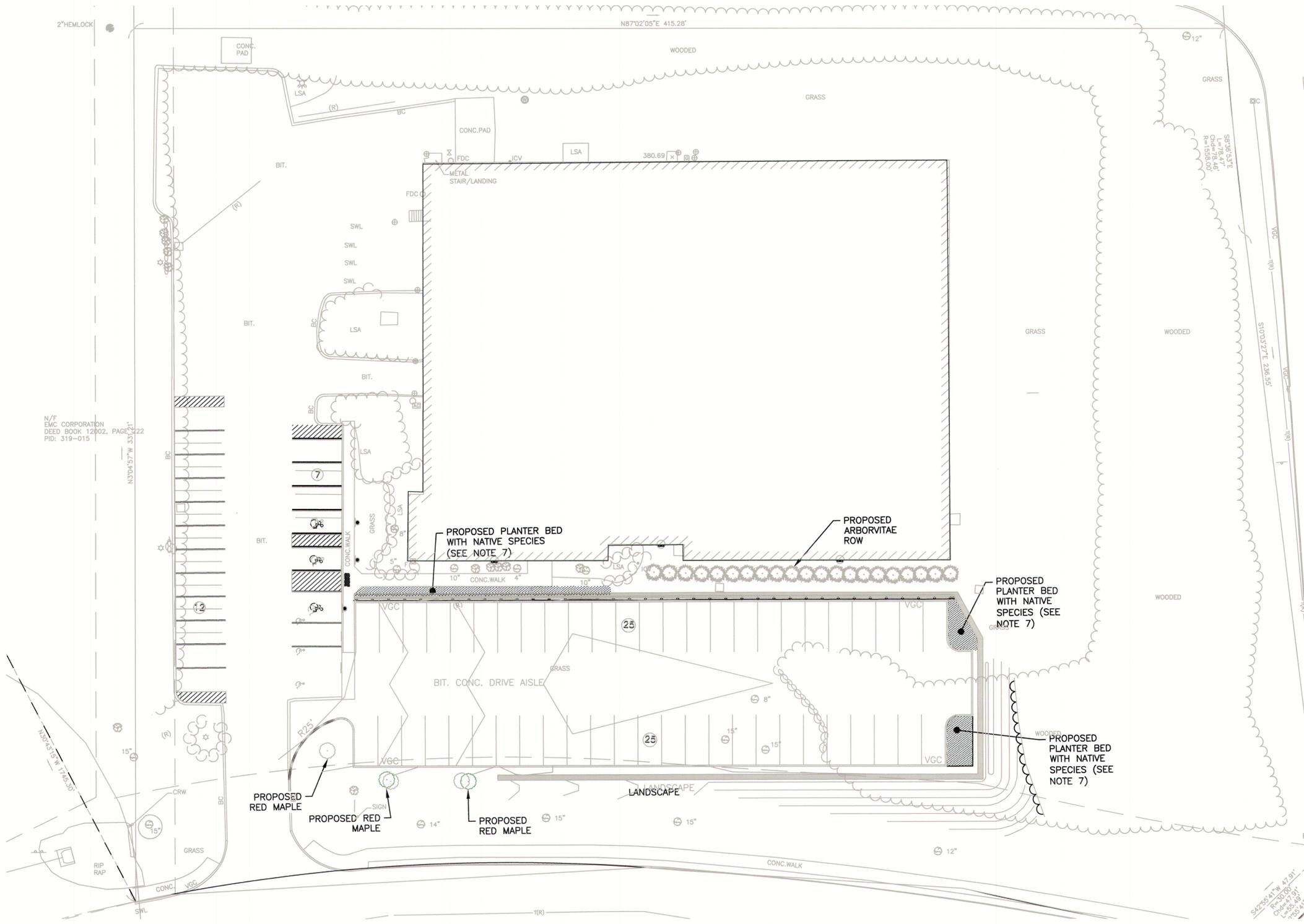
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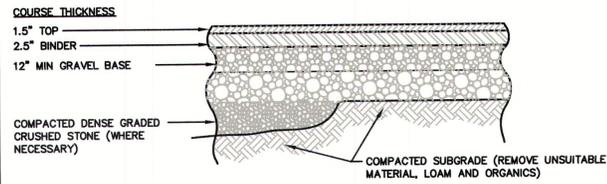


SITE PLAN

LANDSCAPE PLAN

DATE: 08/20/21  
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 DRAWN BY: KL  
 CHECKED BY: KE

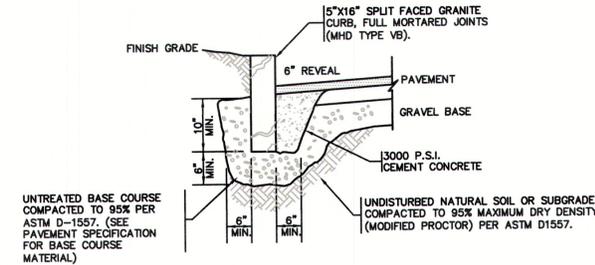




COURSE	MATERIAL	SPECIFICATION PER MASS HIGHWAY DEPARTMENT (MHD)	MAX. AGG. SIZE (INCH)	COMPACTION REQUIREMENTS	TEST DESIGNATION
TOP	BITUMINOUS CONCRETE	M3.11.03 CLASS I, TYPE I-1	3/4	[NOTE 1]	AASHTO-T166
BINDER	BITUMINOUS CONCRETE	M3.11.03 CLASS I, TYPE I-1	3/4	[NOTE 1]	AASHTO-T166
BASE	GRAVEL BORROW	M1.03.0 TYPE C	2	95% [NOTE 3]	AASHTO-199
SUBBASE	GRAVEL BORROW	M1.03.0 TYPE B	3	95% [NOTE 3]	AASHTO-199
SUBGRADE	ORDINARY BORROW	M1.01.0 [SEE NOTE 2]	8	95% [NOTE 3]	AASHTO-199

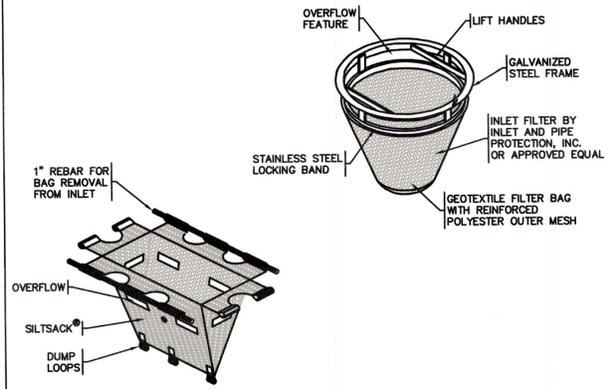
**NOTES:**  
 [1] COMPACT TO TEST AVERAGE OF 95% TEST SHALL NOT BE LOWER THAN 93%.  
 [2] UNSUITABLE MATERIAL IN THE SUBGRADE SHALL BE REMOVED AND REPLACED WITH AN ACCEPTABLE SUBSTITUTE MATERIAL: 3/4" MINUS DENSE GRADED CRUSHED STONE.  
 [3] MATERIAL SHALL BE SPREAD AND COMPACTED IN LAYERS NOT EXCEEDING 8-INCHES IN DEPTH, COMPACTED MEASUREMENT; LAST LAYER OF MATERIAL SHALL NOT EXCEED 4-INCHES IN DEPTH, COMPACTED MEASUREMENT.

**BITUMINOUS CONCRETE PAVEMENT**  
 TYPICAL CROSS SECTION  
 NOT TO SCALE



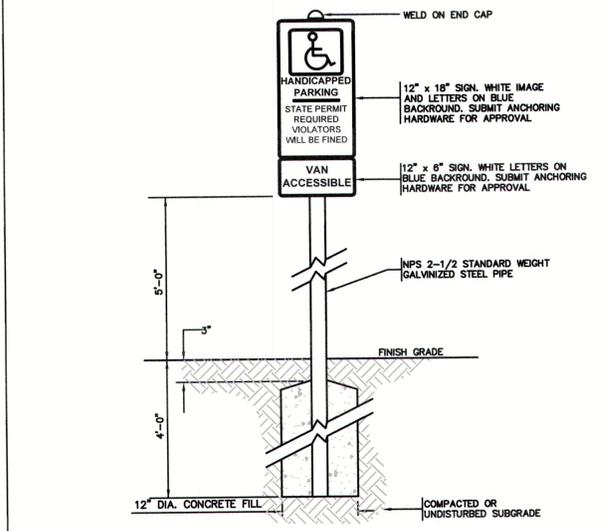
UNTREATED BASE COURSE COMPACTED TO 95% PER ASTM D-1557. (SEE PAVEMENT SPECIFICATION FOR BASE COURSE MATERIAL)

**VERTICAL GRANITE CURB**  
 TYPICAL CROSS SECTION  
 NOT TO SCALE

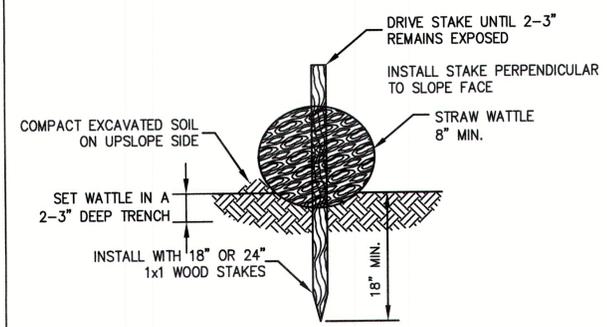


**NOTES:**  
 [1] CLEAN INLET PROTECTION WHEN 30% FULL  
 [2] BURLAP IS NOT AN ACCEPTABLE GEOTEXTILE

**INLET PROTECTION**  
 TYPICAL CROSS SECTION  
 NOT TO SCALE

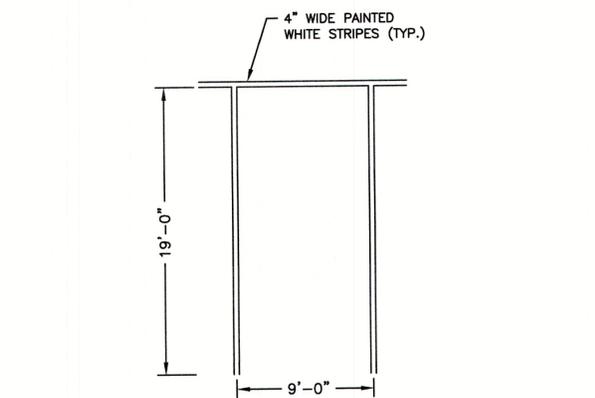


**HANDICAP PARKING SIGN**  
 NOT TO SCALE

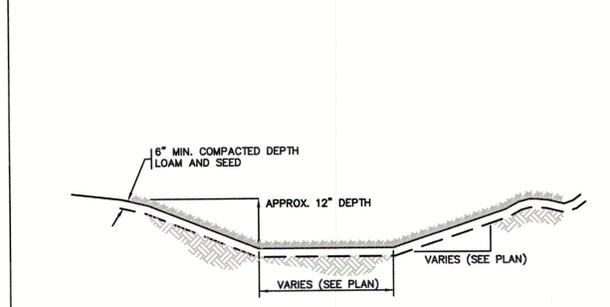


**NOTES:**  
 1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3" (5-7.5 CM) DEEP X 9" (22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.  
 2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.  
 3. SECURE THE WATTLE WITH 18-24" (45.7-61 CM) STAKES EVERY 3-4' (0.9 - 1.2 M) AND WITH A STAKE ON EACH END. (STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" (5-7.5 CM) OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.  
 4. STRAW WATTLE MATERIAL SHALL BE FREE OF STRAW AND ENCASED IN EITHER JUTE, NYLON, OR OTHER PHOTO DEGRADABLE MATERIAL.

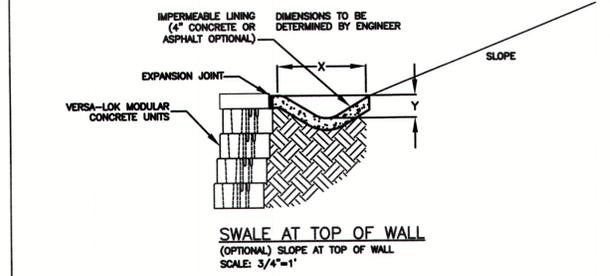
**STRAW WATTLE**  
 TYPICAL CROSS SECTION  
 NOT TO SCALE



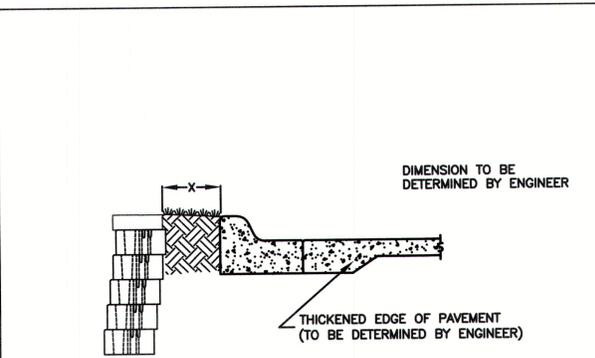
**TYPICAL PARKING SPACE**  
 TYPICAL CROSS SECTION  
 NOT TO SCALE



**GRASS SWALE**  
 PROFILE  
 NOT TO SCALE

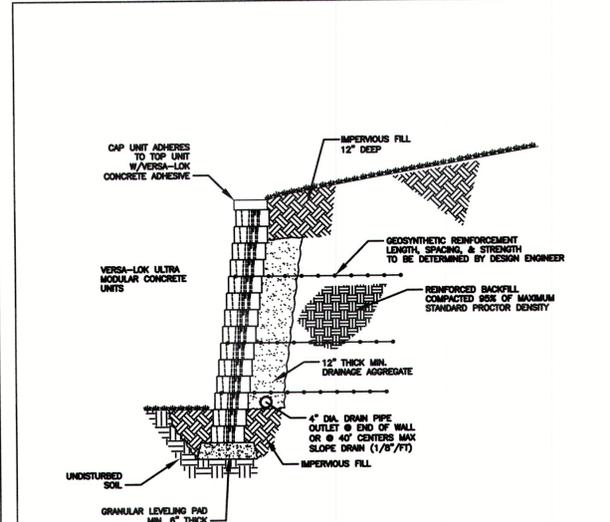


**SWALE AT TOP OF WALL (VERSA-LOK OR EQUIVALENT)**  
 NOT TO SCALE

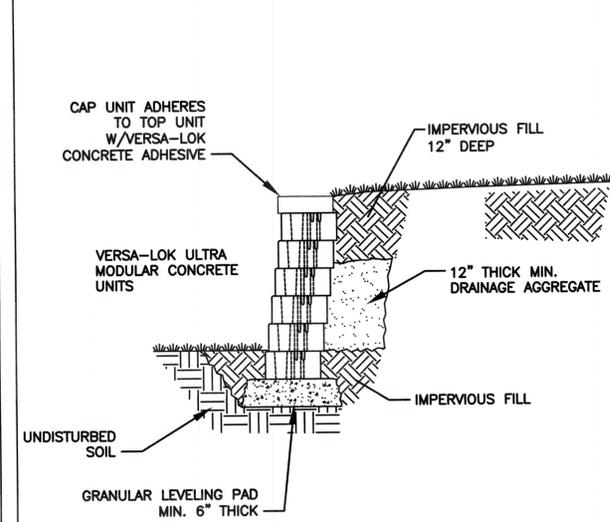


**CURB/PAVEMENT NOTES:**  
 • DISTANCE X TO BE DETERMINED BY ENGINEER BASED ON SOILS AND LOADING CONDITIONS  
 • BARRIER MAY BE REQUIRED BETWEEN WALL AND CURB/PAVEMENT. SEE BARRIER DETAILS AND VERSA-LOK TECHNICAL BULLETIN #8 FENCES, RAILINGS & TRAFFIC BARRIERS FOR ADDITIONAL INFORMATION

**CURB/PAVEMENT DETAIL (VERSA-LOK OR EQUIVALENT)**  
 NOT TO SCALE



**TYPICAL RETAINING WALL (VERSA-LOK OR EQUIVALENT)**  
 NOT TO SCALE



**UNREINFORCED RETAINING WALL (VERSA-LOK OR EQUIVALENT)**  
 NOT TO SCALE

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NO	BY	DATE	DESCRIPTION



SITE PLAN

DETAIL SHEET  
 1 OF 3

DATE:	08/20/21
PROJECT NUMBER:	21123
DESIGNED BY:	KL
DRAWN BY:	KL
CHECKED BY:	KE

C7



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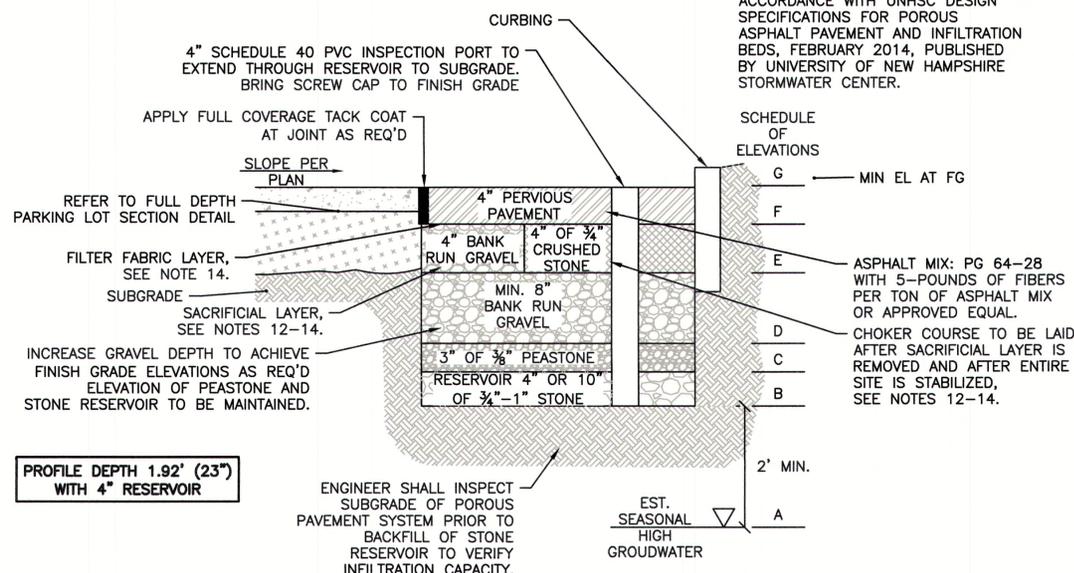
SITE PLAN

DETAIL SHEET  
 2 OF 3

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DRAWN BY:	KL
CHECKED BY:	KE

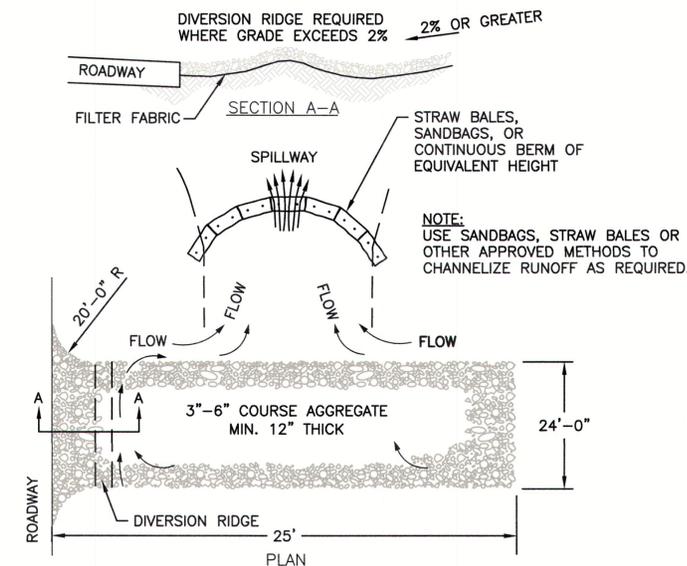
C8  
 SHEET 8 OF 8

NOTE: THE FILTER COURSE SHALL BE BANKRUN GRAVEL, MODIFIED NHDOT SPEC 304.1 AND BE INSTALLED IN ACCORDANCE WITH UNHSC DESIGN SPECIFICATIONS FOR POROUS ASPHALT PAVEMENT AND INFILTRATION BEDS, FEBRUARY 2014, PUBLISHED BY UNIVERSITY OF NEW HAMPSHIRE STORMWATER CENTER.



POROUS PAVEMENT AREA SCHEDULE OF ELVATIONS	
	AREA PP1
FINISH GRADE [VARIABLE] (G)	383.06-384.14
PERVIOUS PAVEMENTS [VARIABLE] (F)	382.73-383.81
CHOKER COURSE [VARIABLE] (E)	382.40-383.48
FILTER COURSE (D)	281.38
FILTER BLANKET (C)	381.13
RESERVOIR (B)	380.80 (4")
SHWT (A)	278.75

NOTE: REMOVE FILL, A, B, SOIL HORIZONS IN AREA OF SYSTEM AND REPLACE WITH TITLE V SAND INSTALLED WITH 6"-12" BASE STONE, 6"-8" TOP STONE, 40% STONE VOID



- NOTES:
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
  - TEMPORARY CONSTRUCTION ENTRANCE SHALL BE APPLIED WHERE NECESSARY TO KEEP PUBLIC WAYS FREE OF SEDIMENT INCLUDING STAGING AREAS

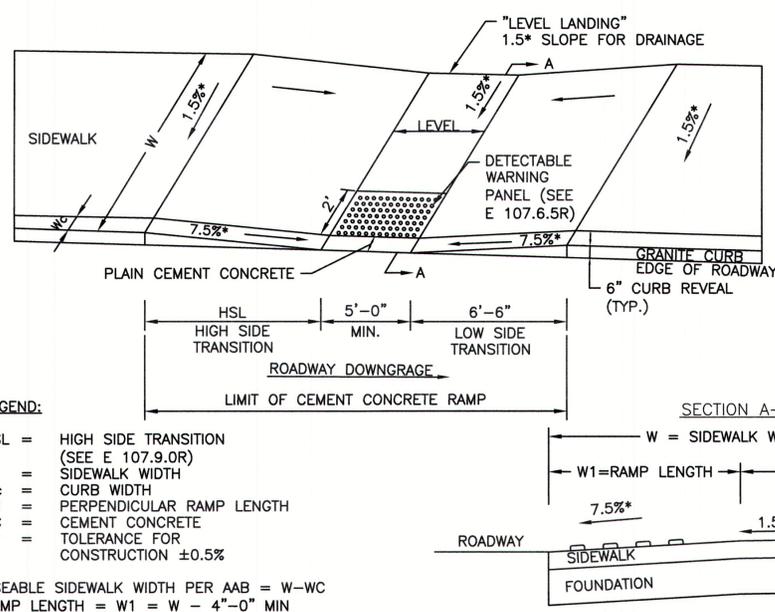
**STABILIZED CONSTRUCTION ENTRANCE**  
 NOT TO SCALE

PROFILE DEPTH 1.92' (23") WITH 4" RESERVOIR

GENERAL CONSTRUCTION SEQUENCE - POROUS PAVEMENT

- INSTALL EROSION AND SEDIMENTATION CONTROL DEVICES.
- CLEAR AND GRUB EXISTING VEGETATION AS REQUIRED FOR CONSTRUCTION.
- REMOVE, STOCKPILE, AND STABILIZE LOAM.
- ROUGH GRADE ACCESS DRIVE AND GRADE SIDE SLOPES.
- STABILIZE EXPOSED SOIL WITH GRASS AND VEGETATION.
- ROUGH GRADE POROUS PAVEMENT PARKING AREAS, LIMITING COMPACTION OF NATIVE SUBGRADE MATERIAL AS MUCH AS POSSIBLE.
- INSTALL UTILITIES WITHIN THE ACCESS DRIVE AND PARKING AREAS.
- GRADE THE POROUS PAVEMENT PARKING AREA TO 23" (1'-11" = 1.92') BELOW FINISHED GRADE, LIMITING COMPACTION OF NATIVE SUBGRADE MATERIAL AS MUCH AS POSSIBLE AND ENSURING SUBGRADE IS SCARIFIED.
- INSTALL 4" OR 6" DEPTH OF 3/4"-1" DIA. STONE RESERVOIR IN TWO COURSES. (SEE SCHEDULE)
- INSTALL 3" DEPTH OF PEA STONE.
- INSTALL 8" DEPTH OF BANK RUN GRAVEL IN TWO 6"-DEEP COURSES WITH A MINIMUM 95% COMPACTION.
- INSTALL AN ADDITIONAL SACRIFICIAL 4" DEPTH OF BANK RUN GRAVEL IN ONE 4"-DEEP COMPACTION COURSE.
- COMPLETE ALL SITE WORK INCLUDING PLANTING AND STABILIZING ALL LANDSCAPE AREAS.
- WHEN SITE WORK IS COMPLETE, THE SITE IS STABILIZED, AND POROUS PAVEMENT IS READY TO BE INSTALLED, 4" OF BANK RUN GRAVEL AND FILTER FABRIC SHALL BE REMOVED FROM THE SITE.
- INSTALL VARIABLE DEPTH BANK RUN GRAVEL AS REQUIRED TO BRING POROUS PAVEMENT PARKING AREA TO WITHIN 8" OF FINISH GRADE. COMPACT IN 6" MAXIMUM LIFTS AS REQUIRED.
- INSTALL 4" DEPTH OF CHOKER COURSE, MAKING SLIGHT GRADING ADJUSTMENTS AS NEEDED.
- INSTALL 4" DEPTH OF POROUS PAVEMENT.
- CLEAN & REMOVE ALL CONSTRUCTION DEBRIS.

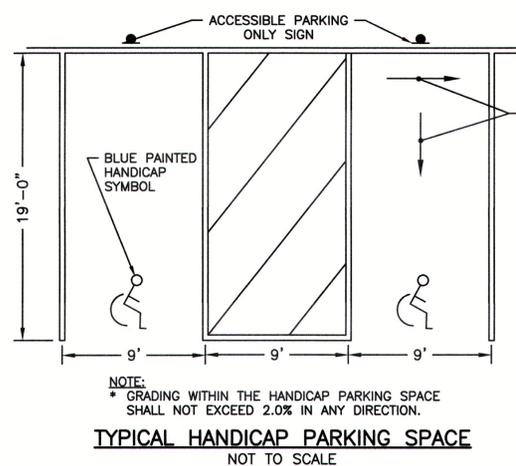
**PERVIOUS PAVEMENT DETAIL**  
 NOT TO SCALE



LEGEND:  
 HSL = HIGH SIDE TRANSITION (SEE E 107.9.0R)  
 W = SIDEWALK WIDTH  
 Wc = CURB WIDTH  
 W1 = PERPENDICULAR RAMP LENGTH  
 CC = CEMENT CONCRETE  
 \* = TOLERANCE FOR CONSTRUCTION ±0.5%

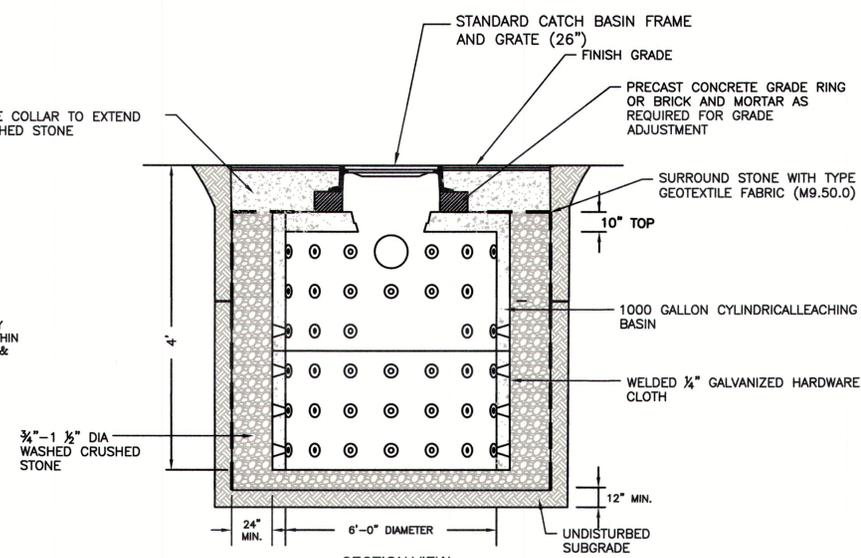
USEABLE SIDEWALK WIDTH PER AAB = W-WC  
 RAMP LENGTH = W1 = W - 4'-0" MIN

**WHEELCHAIR RAMPS ON NARROW SIDEWALK WITH DETECTABLE WARNING PANEL (E107.2.1R)**  
 NOT TO SCALE



**TYPICAL HANDICAP PARKING SPACE**  
 NOT TO SCALE

6" MIN CONCRETE COLLAR TO EXTEND TO LIMIT OF CRUSHED STONE



- NOTES:
- RATED FOR H-20 LOADING.
  - CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
  - SEE PLANS FOR PIPE SIZES.

**LEACHING BASIN**  
 NOT TO SCALE



HOWARD STEIN HUDSON

11 Beacon Street, Suite 1010  
Boston, MA 02108  
www.hshassoc.com

OWNER:  
LRF2 BOS CONSTITUTION BLVD, LCC  
50 TICE BOULEVARD - SUITE A28  
WOODCLIFF LAKE, NJ 07677

APPLICANT:  
ahp ARCHITECTS, INC.  
THE OFFICES AT BOOT MILLS  
116 JOHN STREET SUITE 115  
LOWELL, MA 01852

PARKING LOT EXPANSION  
120 CONSTITUTION BLVD  
FRANKLIN, MA, 02038

REVISIONS:

NO	BY	DATE	DESCRIPTION



SITE PLAN

DETAIL SHEET  
3 OF 3

DATE: 08/20/21

PROJECT NUMBER: 21123

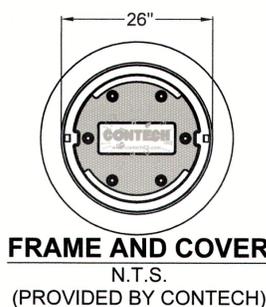
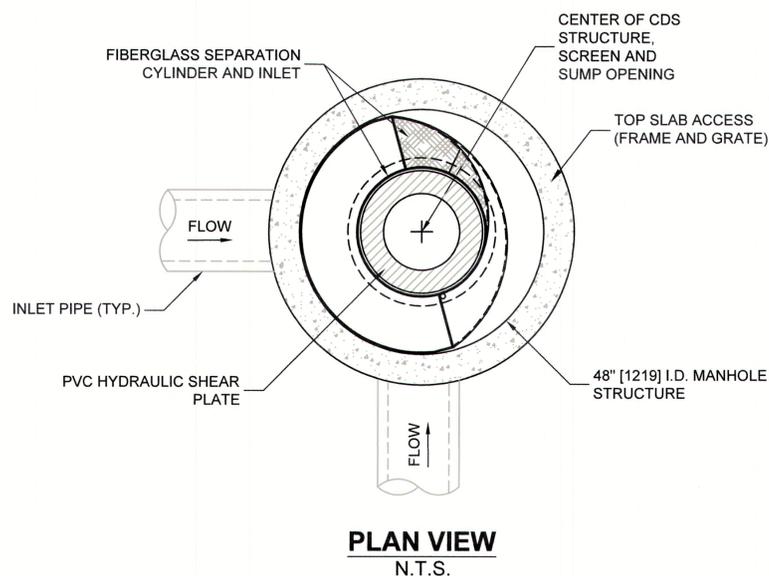
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SHEET 8 OF 8

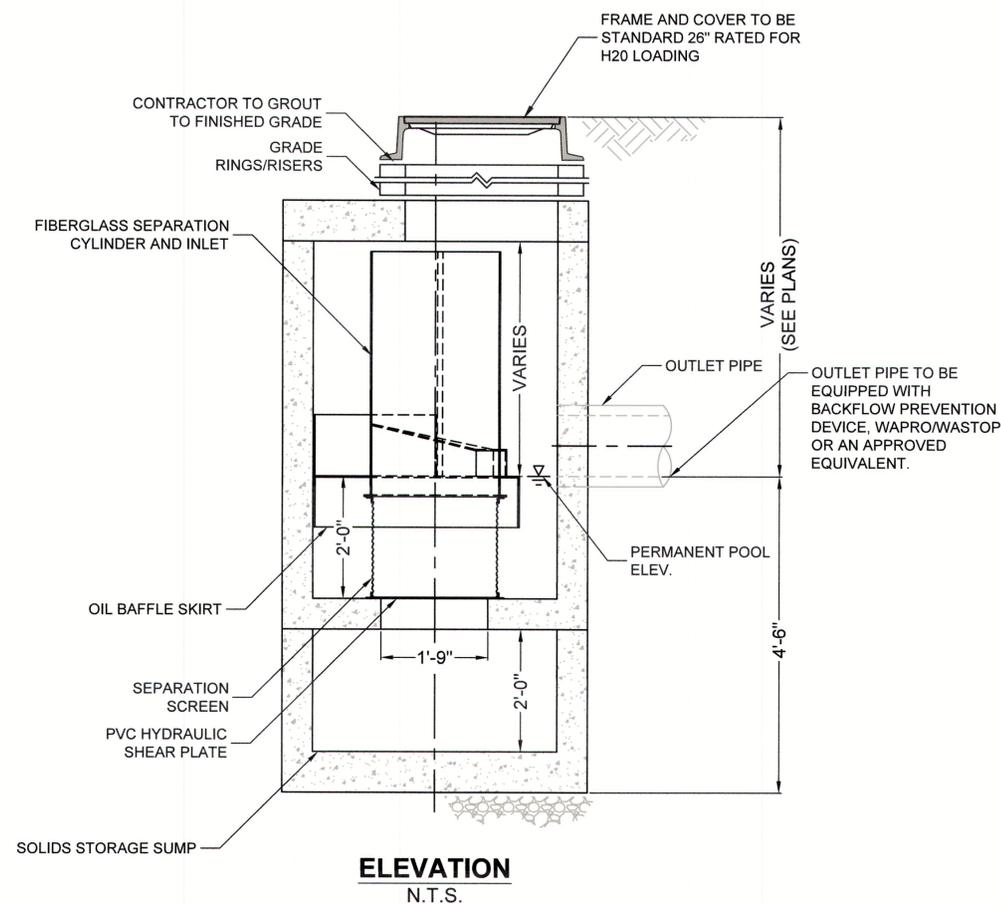


GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. [www.ContechES.com](http://www.ContechES.com)
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2'. AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
- IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
- CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.



**DRAIN MANHOLE**  
**CONTECH CDS 2015-4 WATER QUALITY UNIT**  
NOT TO SCALE  
\*DETAIL PROVIDED BY CONTECH