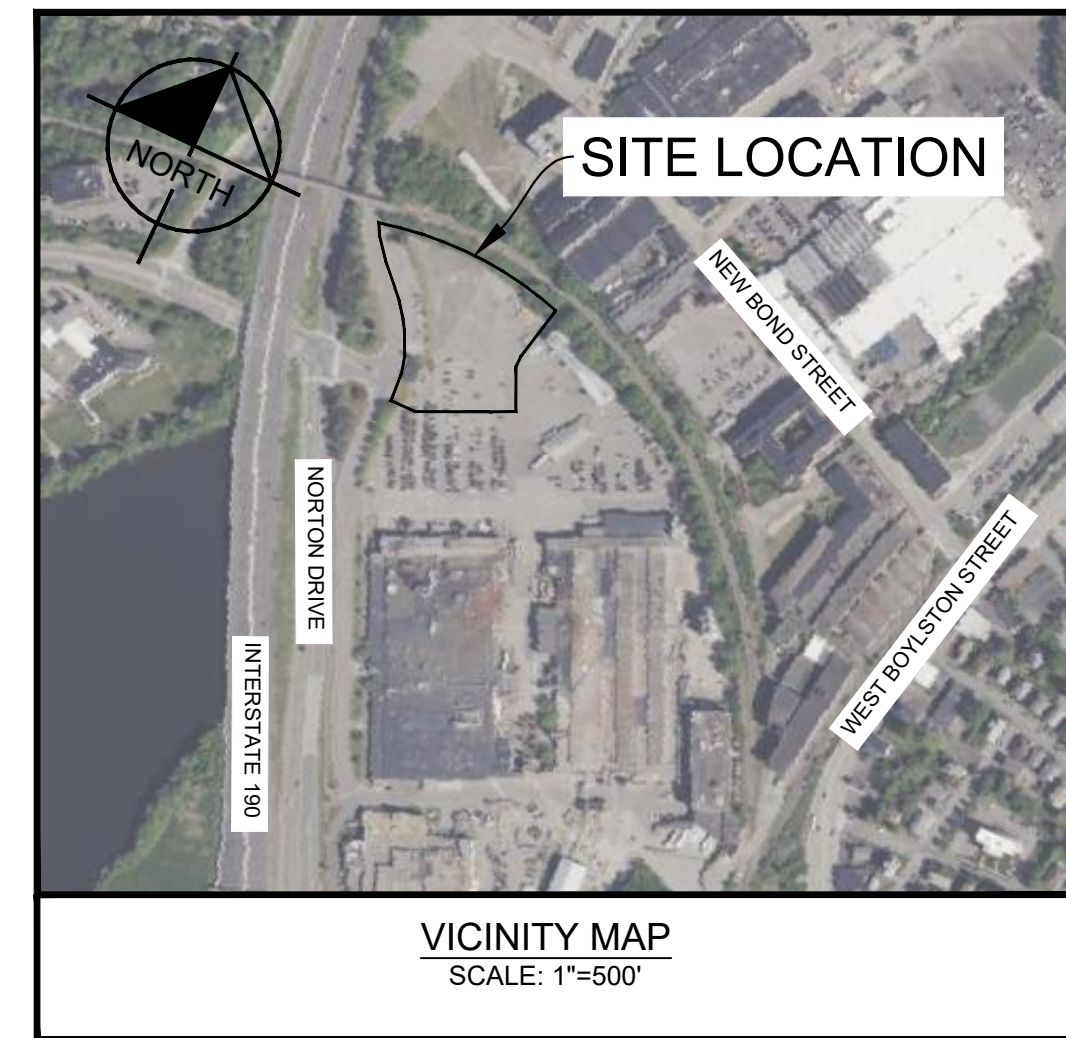


**RECEIVED**  
By Mattie VandenBoom at 4:30 pm, Apr 16, 2024

# PROJECT EUROPA

## 100 NEW BOND STREET CITY OF WORCESTER, MA

April 12, 2024



PROJECT TEAM
<b>APPLICANT/OWNER</b> ST GOBAIN 1 NEW BOND STREET WORCESTER, MA 01606
<b>DEVELOPER</b> PURE DEVELOPMENT 815 EAST 65TH STREET INDIANAPOLIS, IN 46240 TEL: (317) 524-9670
<b>CONSTRUCTION MANAGER</b> DPR CONSTRUCTION 950 WINTER STREET WALTHAM, MA 02451 TEL: (617) 945-7495
<b>CIVIL ENGINEER</b> KIMLEY-HORN AND ASSOCIATES, INC. 404 WYMAN STREET, SUITE 385 WALTHAM, MA 02451 TEL: (781) 328-0676 CONTACT: WILLIAM J. SCULLY EMAIL: BILL.SCULLY@KIMLEY-HORN.COM
<b>ARCHITECT</b> CSO 8831 KEYSTONE CROSSING INDIANAPOLIS, IN 46240 TEL: (317) 446-7121
<b>SURVEYOR</b> FELDMAN 27 MECHANIC STREET WORCESTER, MA 01608 TEL: (617) 357-9740
<b>STRUCTURAL ENGINEER</b> GPLA 125 EAST FORT AVE, SUITE 22 BALTIMORE, MD 21230 TEL: (408) 654-0475
<b>MECHANICAL &amp; PLUMBING &amp; ELECTRICAL ENGINEER</b> BER 66 MAIN STREET NORTH EASTON, MA 02356 TEL: (508) 230-0260

GENERAL NOTES
1. THIS PORTION OF THE PARCEL LIES WITHIN A ZONE "X" (UNSHADED), AN AREA OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD, AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FLOOD INSURANCE RATE MAP (F.I.R.M.) FOR WORCESTER COUNTY, MASSACHUSETTS, MAP NUMBER 25027C0616E, CITY OF WORCESTER COMMUNITY NUMBER 250349, PANEL NUMBER 0616E, HAVING AN EFFECTIVE DATE OF JULY 4, 2011.
2. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. UTILITY INFORMATION SHOWN IS BASED ON BOTH A FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM THE AFOREMENTIONED RECORD PLANS AND ARE APPROXIMATE ONLY EXACT UTILITY LOCATION IS NOT GUARANTEED BY THIS SURVEY. THE ACTUAL LOCATION OF THE SUBSURFACE UTILITIES SHALL BE DETERMINED PRIOR TO BEGINNING CONSTRUCTION.
4. CONTRACTOR SHALL CALL THE DIG SAFE CALL CENTER 72 HOURS PRIOR TO BEGINNING CONSTRUCTION. DIAL 811 OR CALL 1-888-344-7233 FOR LOCATION OF UNDERGROUND UTILITIES.
5. CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS, RELOCATIONS, NEW SERVICES, AND TEMPORARY SERVICES WITH THE UTILITY OWNER PRIOR TO BEGINNING WORK.

Sheet List Table	
Sheet Number	Sheet Title
C-000	COVER SHEET
C-001	GENERAL NOTES
SV-100	SURVEY
C-100	OVERALL KEY MAP
C-200	DEMOLITION PLAN
C-201	DEMOLITION PLAN
C-300	EROSION & SEDIMENT CONTROL PLAN - PHASE I
C-301	EROSION & SEDIMENT CONTROL PLAN - PHASE II
C-302	EROSION & SEDIMENT CONTROL DETAILS
C-303	EROSION & SEDIMENT CONTROL NOTES
C-400	SITE PLAN
C-401	SITE PLAN
C-402	FIRE TRUCK TURN PLAN
C-500	GRADING PLAN
C-501	GRADING PLAN
C-502	DRAINAGE PLAN
C-503	PRE DEVELOPMENT DRAINAGE AREA MAP
C-504	POST DEVELOPMENT DRAINAGE AREA MAP
C-505	POST DEVELOPMENT INLET DRAINAGE AREAS
C-600	UTILITY PLAN
C-601	UTILITY PLAN
C-700	CONSTRUCTION DETAILS
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C-702	CONSTRUCTION DETAILS
C-800	LIGHTING PLAN - NOT IN THIS SET
L-100	LANDSCAPE PLAN
L-101	LANDSCAPE NOTES AND DETAILS

**SITE DATA:**

ADDRESS: 100 NEW BOND STREET  
 PARCEL ID: 13-035-00001  
 ZONED: MFG-1.0 (MANUFACTURING, GENERAL)  
 OVERLAY DISTRICTS: N/A  
 FRONT SETBACK: 15'  
 SIDE SETBACK: 0'  
 REAR SETBACKS: 15'  
 FRONT LANDSCAPE BUFFER: 0'  
 EXISTING USE: PARKING LOT  
 PROPOSED USE: OFFICE BUILDING  
 PARCEL SIZE: 28.43 ACRE

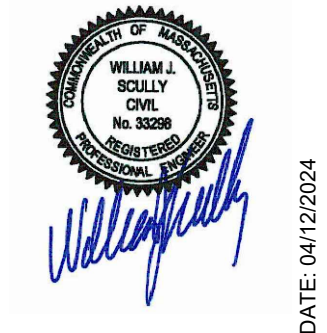
TOTAL DISTURBED AREA: 130,117 SF = 2.99 AC  
 EXISTING IMPERVIOUS AREA: 117,612 SF = 2.70 AC  
 EXISTING PERVIOUS AREA: 13,068 SF = 0.30 AC  
 PROPOSED IMPERVIOUS AREA: 94,525 SF = 2.17 AC  
 PROPOSED PERVIOUS AREA: 35,719 SF = 0.82 AC  
 EXISTING BUILDING AREA: 0 SF  
 PROPOSED BUILDING AREA: 21,434 SF  
 PROPOSED BUILDING HEIGHT: XX  
 NO. OF STORIES: 2  
 PARKING REQUIREMENTS: 1 SPACE PER 300 SF GROSS FLOOR SPACE (UTILITY, ENERGY, CORRIDOR, STAIRWAY, RESTROOM, AND BUILDING MAINTENANCE AREA ARE EXEMPT FROM SPACE ASSIGNMENT)

PROPOSED BUILDING GROSS FLOOR AREA: 43,000 SF  
 MECHANICAL, RESTROOMS AND CIRCULATION: 9,500 SF  
 MINIMUM PARKING REQUIRED: 33500 SF/300 = 112 SPACES  
 EXISTING PARKING TO REMAIN: 27 SPACES  
 PROPOSED PARKING: 96 SPACES  
 TOTAL PARKING PROVIDED: 123 SPACES

**NOTICE OF INTENT  
WORCESTER CONSERVATION COMMISSION  
MAY 6, 2024**



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271 WAVERLEY OAKS ROAD, SUITE 302, WALTHAM, MA 02452  
PHONE: 781-328-0676  
WWW.KIMLEY-HORN.COM



KHA PROJECT: 112966000  
 DATE: 04/12/2024  
 SCALE: AS SHOWN  
 DESIGNED BY: SP  
 DRAWN BY: EIW  
 CHECKED BY: DDL

**COVER SHEET**

**PROJECT EUROPA  
PREPARED FOR  
PURE DEVELOPMENT**

MASSACHUSETTS  
CITY OF WORCESTER

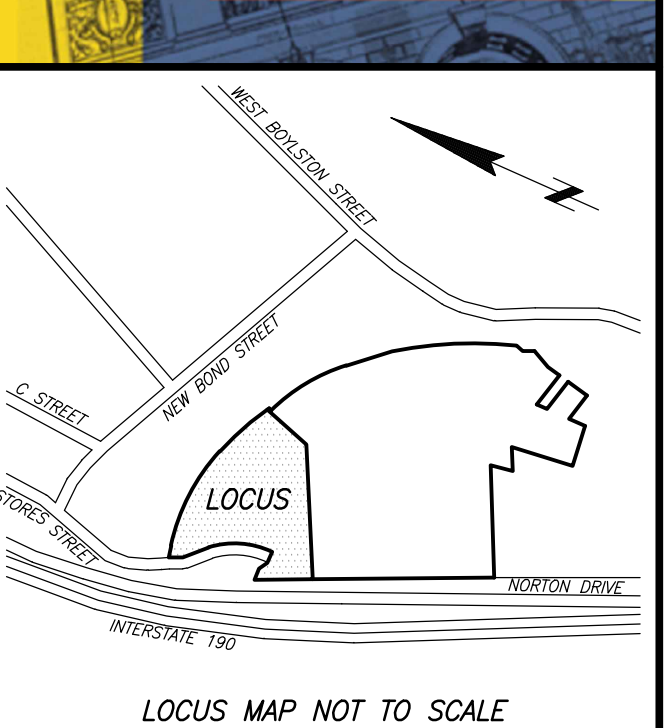
SHEET NUMBER  
**C-000**

Plotted By: Pouel, Samiksha; Sheet Set: St Gobain Office; Layout: Layout; April 12, 2024, 04:29:13pm; K:\BOS\_Civil\BOS Projects\112966000\_Worcester St Gobain Office\CAD\PlanSheets\C-000 COVER SHEET.dwg  
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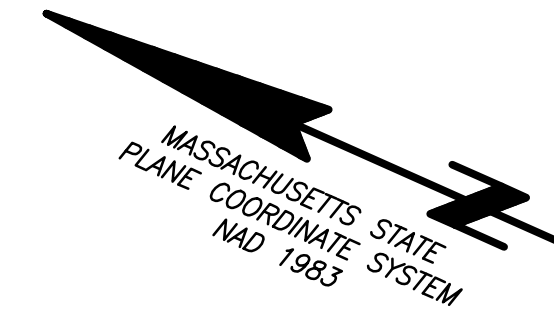




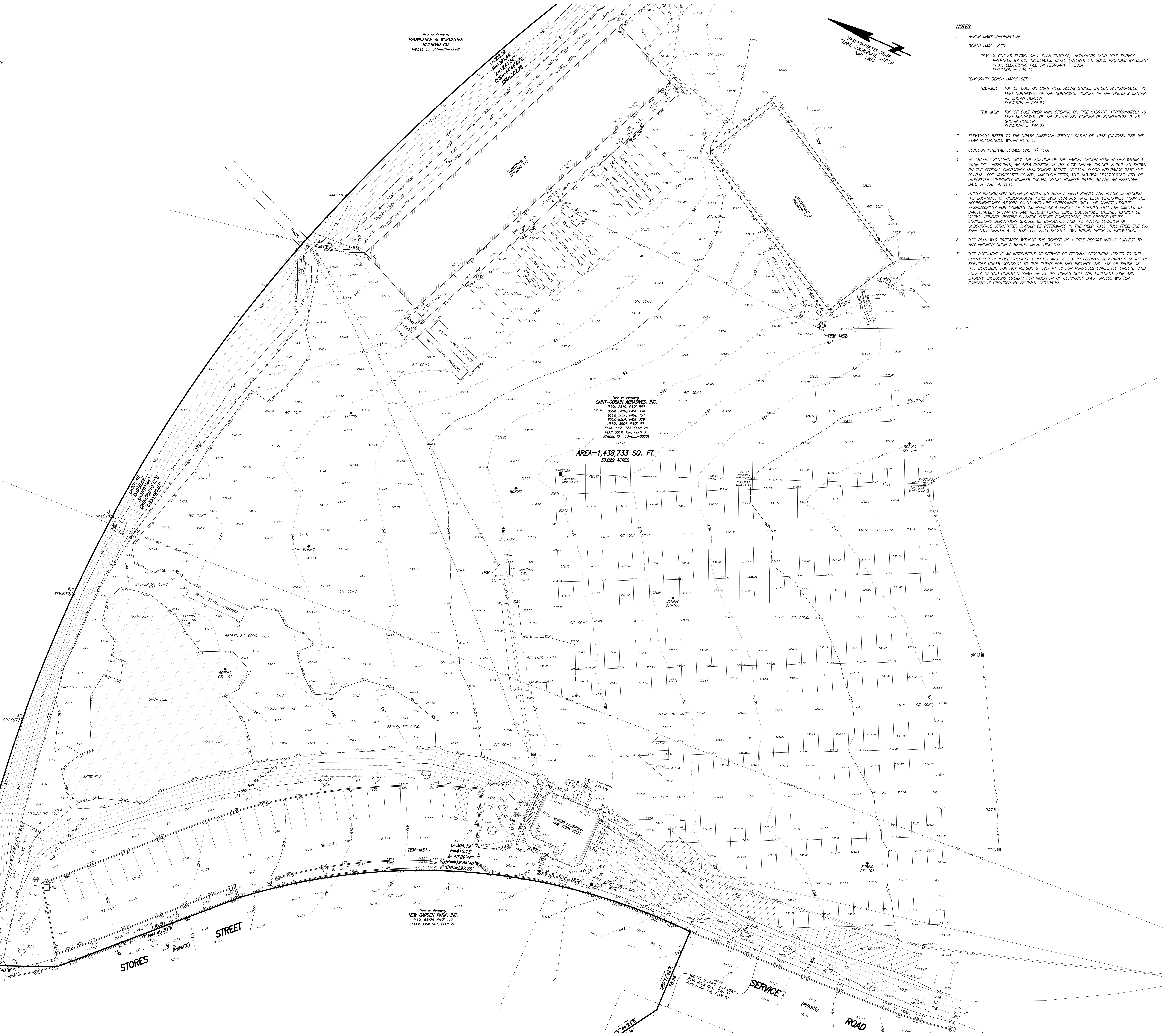
LOCUS MAP NOT TO SCALE

- LEGEND**
- ⊙ SEWER MANHOLE
  - ⊙ DRAIN MANHOLE
  - ⊙ ELECTRIC MANHOLE
  - ⊙ COMMUNICATIONS MANHOLE
  - ⊙ MANHOLE
  - ⊙ HYDRANT
  - ⊙ WATER SHUT OFF/WATER GATE
  - ⊙ GAS SHUT OFF/GAS GATE
  - ⊙ CATCH BASIN
  - ⊙ TRAFFIC SIGNAL
  - ⊙ UTILITY POLE
  - ⊙ LIGHT POLE
  - ⊙ WALK LIGHT
  - ⊙ ELECTRIC HANDHOLE
  - ⊙ BOLLARD
  - ⊙ POST
  - ⊙ ELECTRIC CONDUIT RISER
  - ⊙ GATE POST
  - ⊙ SIGN
  - ⊙ FLAG POLE
  - ⊙ POST INDICATOR VALVE
  - ⊙ STAKE
  - ⊙ BORING
  - ⊙ OBSERVATION WELL
  - ⊙ UTILITY POLE W/ LIGHT
  - ⊙ CURB RETURN
  - ⊙ DECIDUOUS TREE
  - ⊙ CONIFEROUS TREE
  - ⊙ JERSEY BARRIER
  - ⊙ BITUMINOUS
  - ⊙ BACK
  - ⊙ BOTTOM OF STEPS
  - ⊙ CONCRETE CURB
  - ⊙ CHORD BEARING
  - ⊙ CHORD DISTANCE
  - ⊙ CHAIN LINK FENCE
  - ⊙ COLUMN
  - ⊙ CONCRETE
  - ⊙ CONCRETE RETAINING WALL
  - ⊙ DELTA ANGLE
  - ⊙ ENTRANCE
  - ⊙ FOUND
  - ⊙ GARAGE DOOR
  - ⊙ GUARD RAIL
  - ⊙ HAND RAIL
  - ⊙ INVERT ELEVATION
  - ⊙ INACCESSIBLE
  - ⊙ ARC LENGTH
  - ⊙ LAND COURT CASE
  - ⊙ LANDSCAPED AREA
  - ⊙ LANDSCAPE TIMBER
  - ⊙ METAL
  - ⊙ NO VISIBLE PIPES
  - ⊙ OVER
  - ⊙ RADIUS OR RIM ELEVATION
  - ⊙ RECORD
  - ⊙ RECORD
  - ⊙ SQUARE FEET
  - ⊙ STONE RETAINING WALL
  - ⊙ STOCKADE FENCE
  - ⊙ TEMPORARY BENCH MARK
  - ⊙ THRESHOLD
  - ⊙ TOP OF WATER
  - ⊙ TOP OF STEPS
  - ⊙ VERTICAL GRANITE CURB
  - ⊙ COMMUNICATIONS SERVICE
  - ⊙ COMBINED SEWER
  - ⊙ DRAIN
  - ⊙ ELECTRIC
  - ⊙ GAS
  - ⊙ OVERHEAD WIRES
  - ⊙ SEWER
  - ⊙ TELEPHONE
  - ⊙ WATER
  - ⊙ ABANDONED
  - ⊙ PIPE SIZE AND MATERIAL
  - ⊙ CAST IRON
  - ⊙ POLYVINYL CHLORIDE
  - ⊙ REINFORCED CONCRETE PIPE
  - ⊙ WIRELESS CLAY PIPE
  - ⊙ METAL FENCE
  - ⊙ WOOD FENCE
  - ⊙ GUARD RAIL

New or Formerly  
**PROVIDENCE & WORCESTER  
RAILROAD CO.**  
PARCEL ID: RR-ROW-000PW



- NOTES:**
- BENCH MARK INFORMATION:  
BENCH MARK USED:  
TBM-1: CUT AS SHOWN ON A PLAN ENTITLED, "OLD/ASPS LAND TITLE SURVEY", PREPARED BY DOT ASSOCIATES, DATED OCTOBER 11, 2023, PROVIDED BY CLIENT IN AN ELECTRONIC FILE ON FEBRUARY 7, 2024.  
ELEVATION = 538.70  
TEMPORARY BENCH MARKS SET:  
TBM-MS1: TOP OF BOLT ON LIGHT POLE ALONG STORES STREET, APPROXIMATELY 70 FEET NORTHWEST OF THE NORTHWEST CORNER OF THE VISITOR'S CENTER, AS SHOWN HEREON.  
ELEVATION = 548.60  
TBM-MS2: TOP OF BOLT OVER MAIN OPENING ON FIRE HYDRANT, APPROXIMATELY 10 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF STOREHOUSE 9, AS SHOWN HEREON.  
ELEVATION = 540.24
  - ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) PER THE PLAN REFERENCED WITHIN NOTE 1.
  - CONTOUR INTERVAL EQUALS ONE (1) FOOT.
  - BY GRAPHIC PLOTTING ONLY, THE PORTION OF THE PARCEL SHOWN HEREON LIES WITHIN A ZONE "X" (UNSHADED), AN AREA OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD, AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR WORCESTER COUNTY, MASSACHUSETTS, MAP NUMBER 220200316E, CITY OF WORCESTER COMMUNITY NUMBER 250349, PANEL NUMBER 0616E, HAVING AN EFFECTIVE DATE OF JULY 4, 2011.
  - UTILITY INFORMATION SHOWN IS BASED ON BOTH A FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM THE AFORESAID RECORD PLANS AND ARE APPROXIMATE ONLY. WE CANNOT ASSUME RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES THAT ARE OMITTED OR INACCURATELY SHOWN ON SAID RECORD PLANS, SINCE SUBSURFACE UTILITIES CANNOT BE USUALLY VERIFIED. BEFORE PLANNING FUTURE CONNECTIONS, THE PROPER UTILITY ENGINEERING DEPARTMENT SHOULD BE CONSULTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHOULD BE DETERMINED IN THE FIELD. CALL TOLL FREE, THE DIG SAFE CALL CENTER AT 1-888-344-7233 SEVENTY-TWO HOURS PRIOR TO EXCAVATION.
  - THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ANY FINDINGS SUCH A REPORT MIGHT DISCLOSE.
  - THIS DOCUMENT IS AN INSTRUMENT OF SERVICE OF FELDMAN GEO SPATIAL ISSUED TO OUR CLIENT FOR PURPOSES RELATED DIRECTLY AND SOLELY TO FELDMAN GEO SPATIAL'S SCOPE OF SERVICES UNDER CONTRACT TO OUR CLIENT FOR THIS PROJECT. ANY USE OR REUSE OF THIS DOCUMENT FOR ANY REASON BY ANY PARTY FOR PURPOSES UNRELATED DIRECTLY AND SOLELY TO SAID CONTRACT SHALL BE AT THE USER'S SOLE AND EXCLUSIVE RISK AND LIABILITY, INCLUDING LIABILITY FOR VIOLATION OF COPYRIGHT LAWS, UNLESS WRITTEN CONSENT IS PROVIDED BY FELDMAN GEO SPATIAL.



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RAILROAD CO.**  
PARCEL ID: RR-ROW-000PW

New or Formerly  
**NEW GARDEN PARK, INC.**  
BOOK 68470, PAGE 122,  
PLAN BOOK 965, PLAN 71

I CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY AND THE LATEST PLANS AND DEEDS OF RECORD.

*Joseph A. Zambuto, P.E.*  
JOSEPH A. ZAMBUTO, P.E. (MA# 52783)  
JZAMBUTO@FELDMANGEO.COM  
APRIL 5, 2024  
DATE

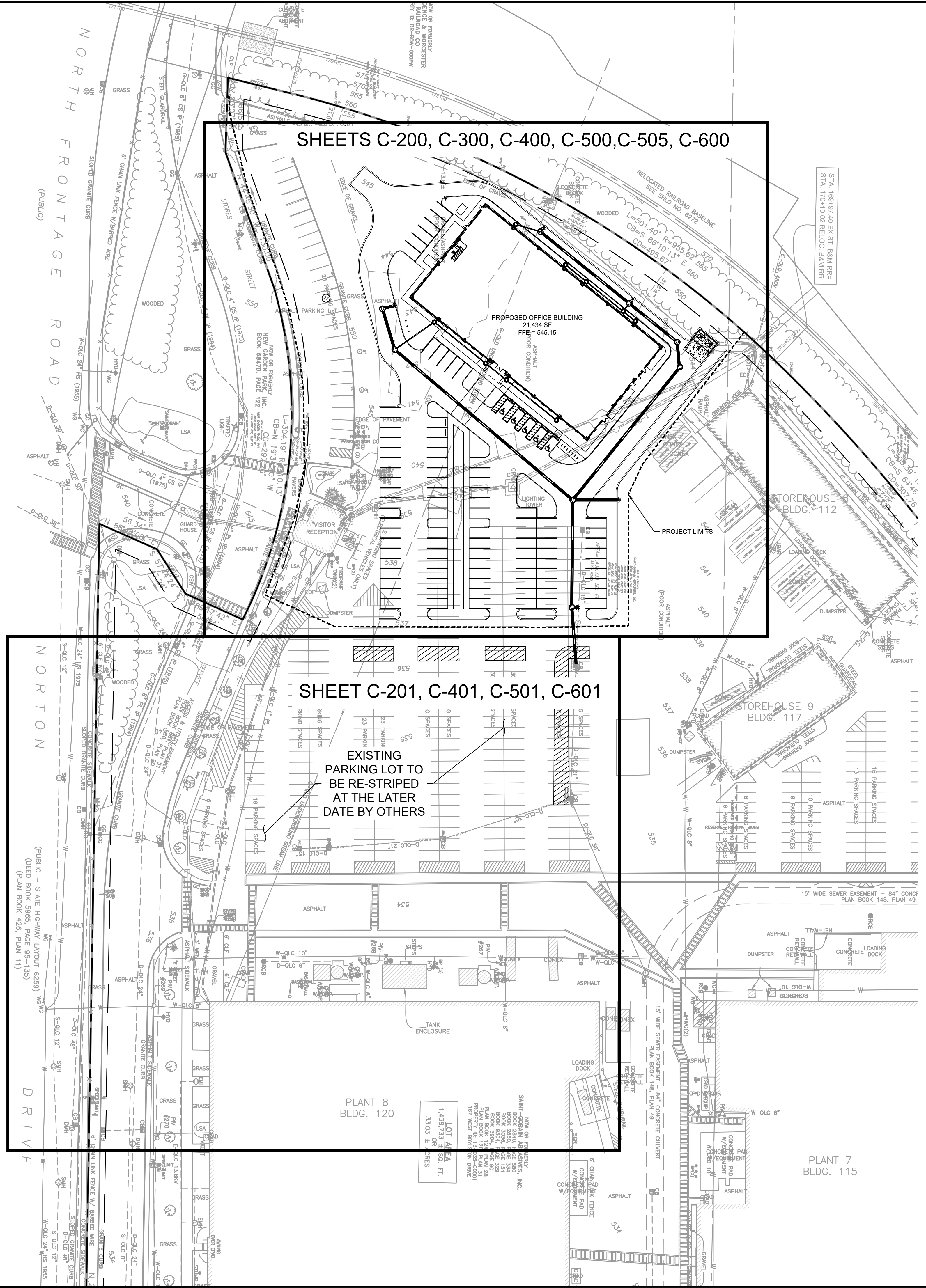


DRAWING NAME:  
**PARTIAL  
EXISTING CONDITIONS  
PLAN OF LAND  
167 WEST BOYLSTON DRIVE  
WORCESTER, MASS.**

DATE:	FEBRUARY 15, 2024
REVISIONS:	
FILENAME:	2306035-EG.dwg
RESEARCH:	TGS
FIELD MGR:	JRZ
APPROVER:	KFM/MS
CALC:	JRZ
DATE:	10/25/22
FIELD CHK:	JRZ
CRD FILE:	2306035

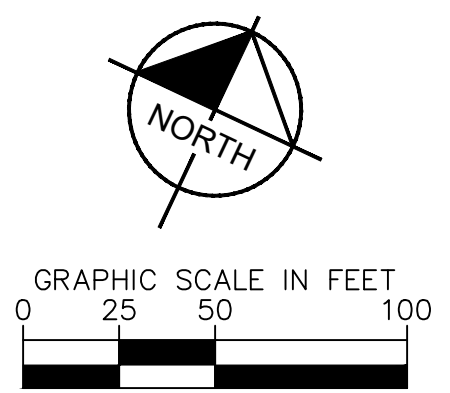


Plotted By: Poudel, Samiksha. Sheet Set: St Gobain Office. Layout: C-100. April 12, 2024. 04:21:22 pm. Kimley-Horn.com\AT\_BOS\BOS\_Civil\BOS\_Civil\BOS\_112968000\_Worcester-St Gobain Office\CAD\PlanSheets\Overall Key Map.dwg. This document, together with the concepts and designs presented herein, is an instrument of service, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SHEETS C-200, C-300, C-400, C-500, C-505, C-600

SHEET C-201, C-401, C-501, C-601



No.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL  
  
 DATE: 04/12/2024

KHA PROJECT	112968000
DATE	04/12/2024
SCALE	AS SHOWN
DESIGNED BY	SP
DRAWN BY	EIW
CHECKED BY	DOL

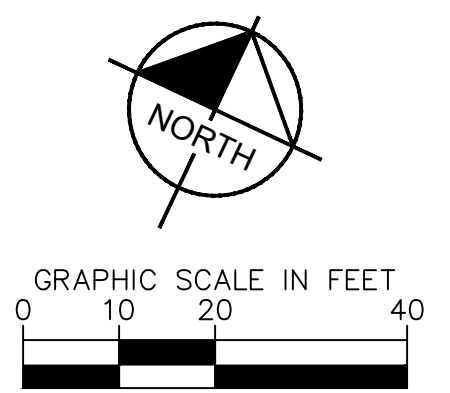
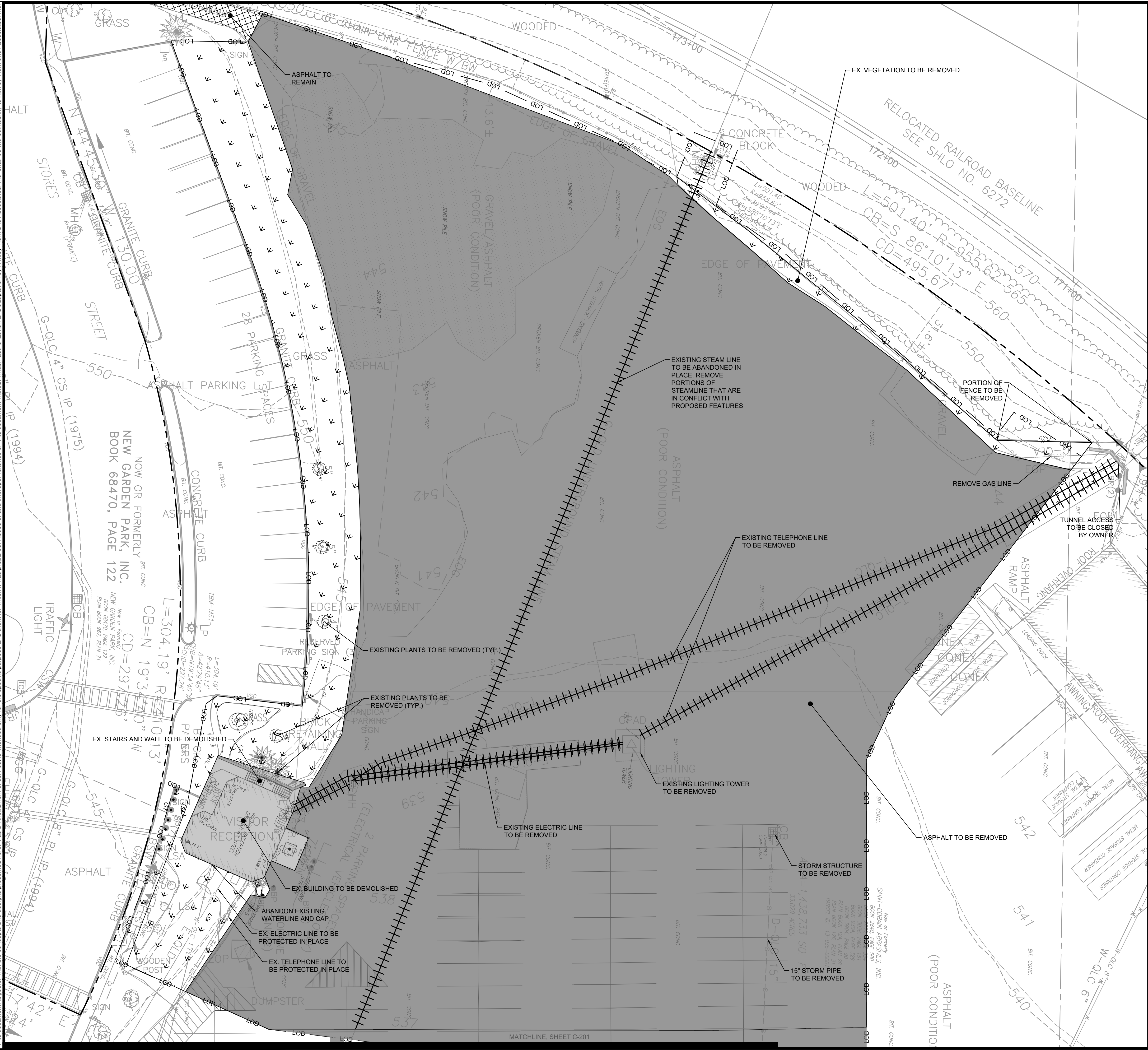
**OVERALL KEY MAP**

PROJECT EUROPA  
 PREPARED FOR  
 PURE DEVELOPMENT  
 CITY OF WORCESTER MASSACHUSETTS

SHEET NUMBER  
**C-100**



Plotted By: P. Sankhata, Sheet Set: St. Gobain Office, Layout: C-201 DEMOLITION PLAN, April 12, 2024, 04:21:43pm, K:\BOS-Civil\BOS Projects\112868000 - Worcester, St. Gobain Office\CAD\PlanSheets\C-201 DEMOLITION PLAN.dwg  
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LEGEND	
	PROPERTY LINE
	SETBACKS
	LIMITS OF DISTURBANCE (130,117 SF)
	ASPHALT TO BE REMOVED
	VEGETATION TO BE REMOVED
	UTILITIES TO BE REMOVED
	BUILDING TO BE REMOVED
	ASPHALT TO REMAIN

- DEMOLITION / LAND DISTURBANCE NOTES:**
- PRIOR TO STARTING ANY DEMOLITION CONTRACTOR IS RESPONSIBLE FOR:
    - ENSURING THAT COPIES OF ALL APPLICABLE PERMITS AND APPROVALS ARE MAINTAINED ON SITE AND AVAILABLE FOR REVIEW.
    - INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL AND/OR TREE PROTECTION MEASURES PRIOR TO SITE DISTURBANCE.
    - LOCATING (VERTICALLY AND HORIZONTALLY) ALL UTILITIES AND SERVICES, INCLUDING, BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES.
    - FAMILIARIZING THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.
    - COORDINATION WITH UTILITY COMPANIES & ADJACENT LANDOWNERS/BUSINESSES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REQUIRED TO MINIMIZE THE IMPACT ON THE AFFECTED PARTIES.
  - NEITHER KIMLEY-HORN & ASSOCIATES, INC. NOR THE OWNER IS RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL OSHA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
  - THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN AS A RESULT OF HIS ACTIVITIES.
  - CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH: "THE MANUAL ON UNIFORM TRAFFIC CONTROL," AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHTS-OF-WAY.
  - CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY.
  - USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION.
  - CONTRACTOR IS RESPONSIBLE TO SAFEGUARD SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED PERSONS AT ANY TIME.
  - THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL METHODS AND MEANS ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.
  - DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.
  - ALL PROPOSED STORM INLET OR GRATE STRUCTURES SHALL BE PROTECTED WITH APPROVED INLET PROTECTION MEASURES IMMEDIATELY FOLLOWING INSTALLATION.
  - ALL SLOPES 3:1 OR GREATER SHALL BE STABILIZED WITH JUTE MESH OR OTHER APPROVED SOIL STABILIZATION FABRIC IMMEDIATELY FOLLOWING DISTURBANCE OF THE SLOPED AREA.

<h1 style="margin: 0;">Demolition Plan</h1>	<p style="margin: 0;">PROJECT EUROPA PREPARED FOR PURE DEVELOPMENT</p>
<p style="margin: 0;">CITY OF WORCESTER</p>	<p style="margin: 0;">MASSACHUSETTS</p>
<p style="margin: 0;">SHEET NUMBER <b>C-200</b></p>	<p style="margin: 0;">DATE 04/12/2024</p>

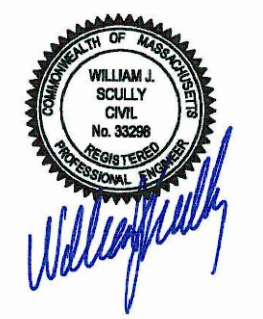
LICENSED PROFESSIONAL ENGINEER

**Kimley-Horn**

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PHONE: 781-328-0676  
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No.	REVISIONS	DATE	BY





LICENSED PROFESSIONAL

DATE: 04/12/2024

CHECKED BY: DDL  
 DRAWN BY: EIW  
 DESIGNED BY: SP  
 SCALE AS SHOWN

DATE 04/12/2024  
 SCALE AS SHOWN

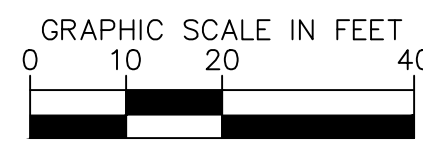
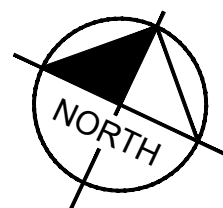
KHA PROJECT 112966000

**DEMOLITION PLAN**

**PROJECT EUROPA  
 PREPARED FOR  
 PURE DEVELOPMENT**

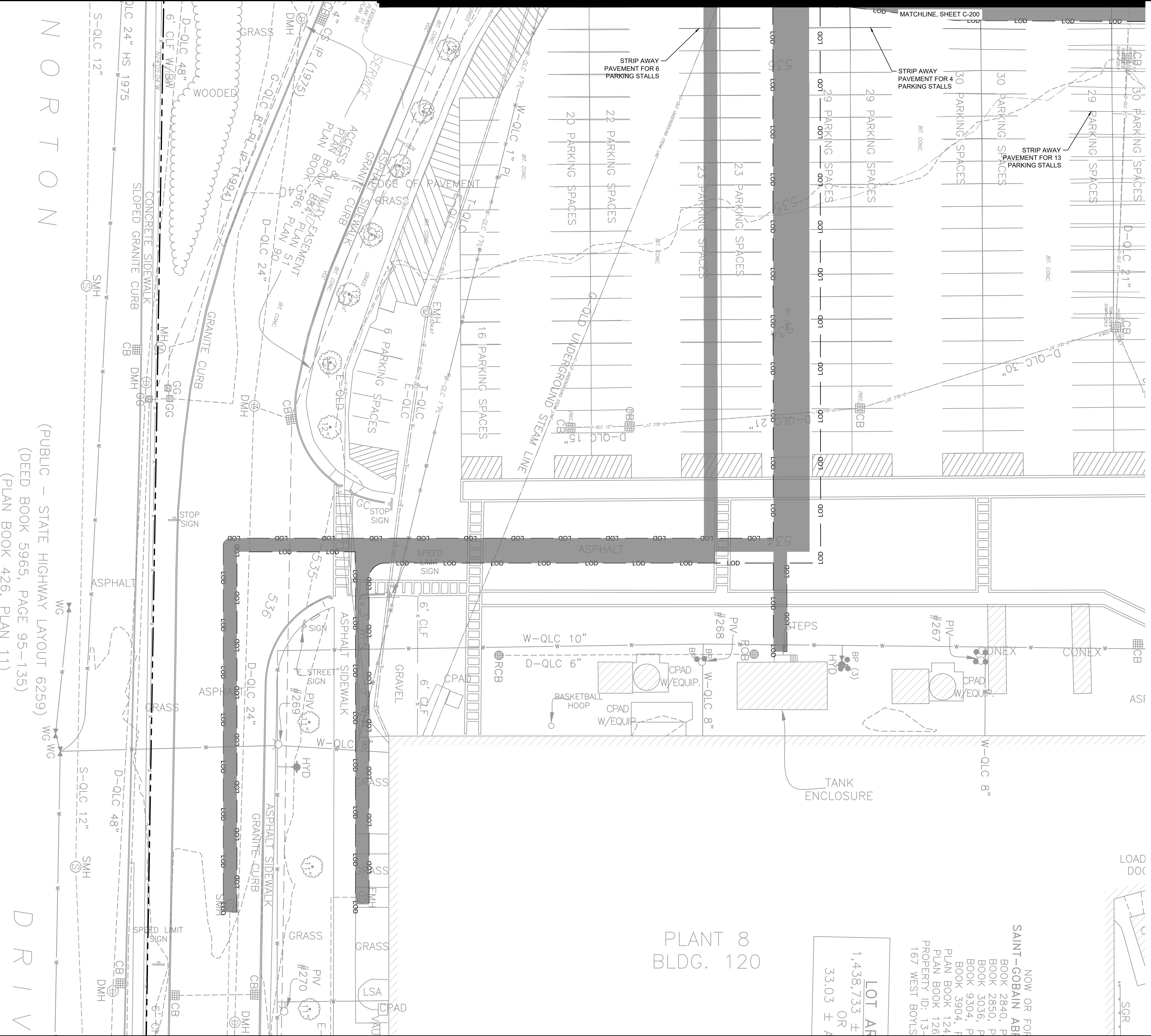
CITY OF WORCESTER MASSACHUSETTS

SHEET NUMBER  
**C-201**



**LEGEND**

- PROPERTY LINE
- SETBACKS
- LIMITS OF DISTURBANCE (108,047 SF)
- ASPHALT TO BE REMOVED
- VEGETATION TO BE REMOVED
- UTILITIES TO BE REMOVED



NOW OR FOR  
 SAINT-GOBAIN ABI  
 BOOK 2840, P  
 BOOK 2850, P  
 BOOK 3036, F  
 BOOK 9304, F  
 BOOK 3904, F  
 PLAN BOOK 124  
 PLAN BOOK 126  
 PROPERTY ID: 13-  
 167 WEST BOYLS

LOT AREA  
 1,438,733 ±  
 OR  
 33.03 ± A

PLANT 8  
 BLDG. 120

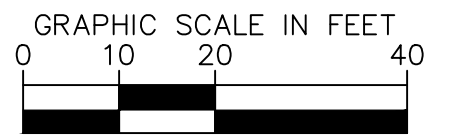
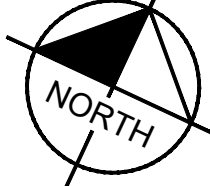
N O R T O N

(PUBLIC - STATE HIGHWAY LAYOUT 6259)  
 (DEED BOOK 5965, PAGE 95-135)  
 (PLAN BOOK 426, PLAN 11)

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LEGEND	
	PROPERTY LINE
	LIMITS OF DISTURBANCE
	STRAW WADDLE

CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL		
MEASURE	CALLOUT	SYMBOL
SILT FENCE	SF	
CONSTRUCTION ENTRANCE	CE	
INLET PROTECTION	IP	
SODDING	SO	

No.	REVISIONS	DATE	BY

**Kimley»Horn**

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LICENSED PROFESSIONAL

DATE: 04/12/2024  
 CHECKED BY: DDL  
 DRAWN BY: EIW  
 DESIGNED BY: SP  
 SCALE: AS SHOWN  
 DATE: 04/12/2024  
 KHA PROJECT: 11296000

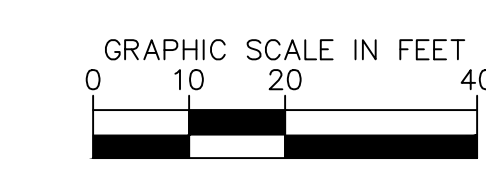
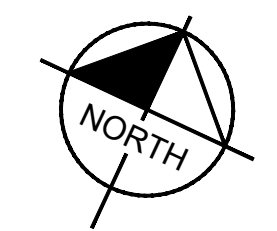
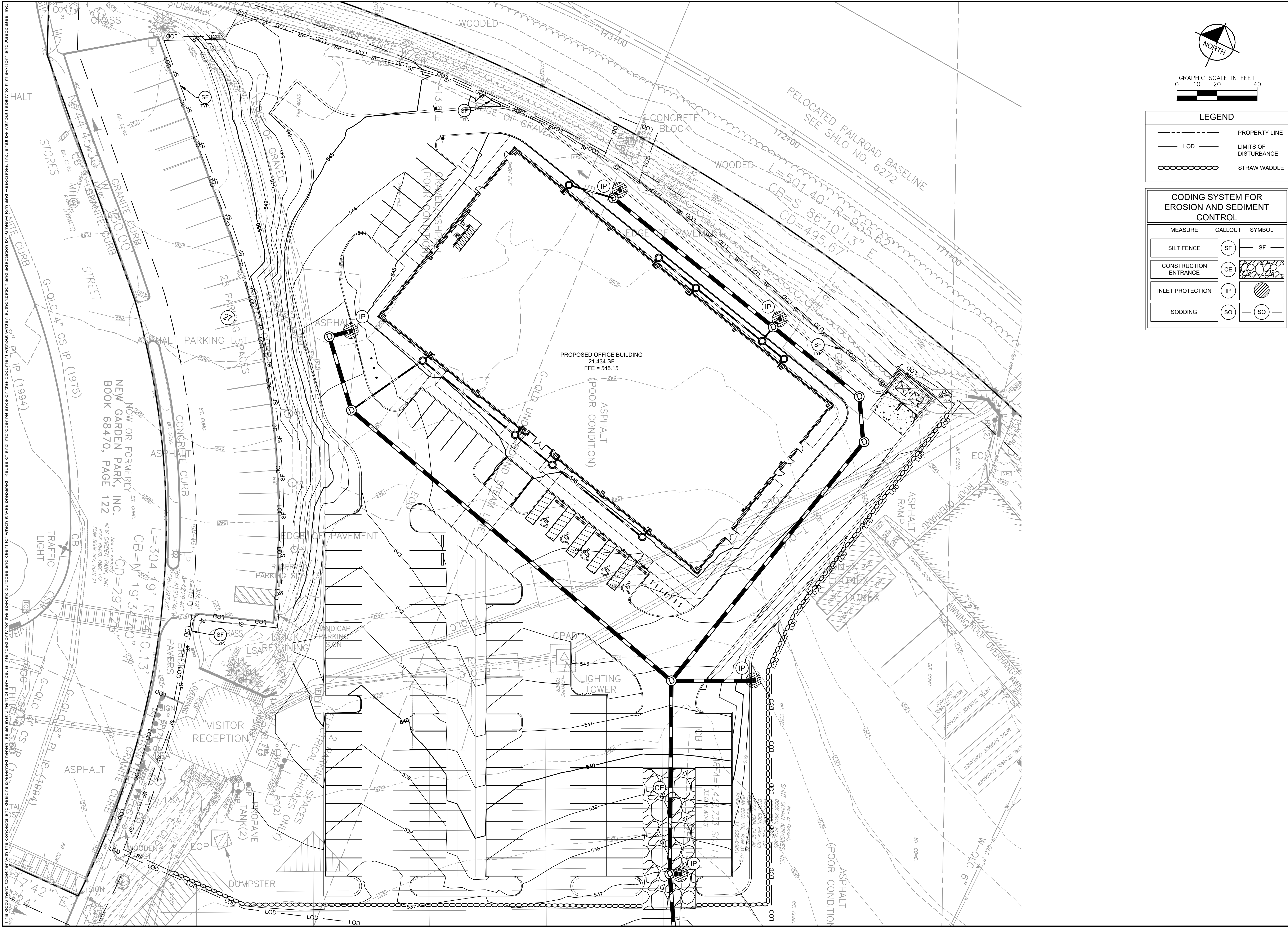
**EROSION & SEDIMENT CONTROL PLAN - PHASE I**

PROJECT EUROPA  
 PREPARED FOR  
 PURE DEVELOPMENT

CITY OF WORCESTER MASSACHUSETTS

SHEET NUMBER  
**C-300**





LEGEND	
	PROPERTY LINE
	LIMITS OF DISTURBANCE
	STRAW WADDLE

CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL		
MEASURE	CALLOUT	SYMBOL
SILT FENCE	SF	
CONSTRUCTION ENTRANCE	CE	
INLET PROTECTION	IP	
SODDING	SO	

No.	REVISIONS	DATE	BY

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 DESIGNED BY: SP  
 SCALE: AS SHOWN  
 DATE: 04/12/2024  
 PROJECT: 11296000

**EROSION & SEDIMENT CONTROL PLAN - PHASE II**

PROJECT EUROPA  
 PREPARED FOR  
 PURE DEVELOPMENT

CITY OF WORCESTER MASSACHUSETTS

SHEET NUMBER  
**C-301**

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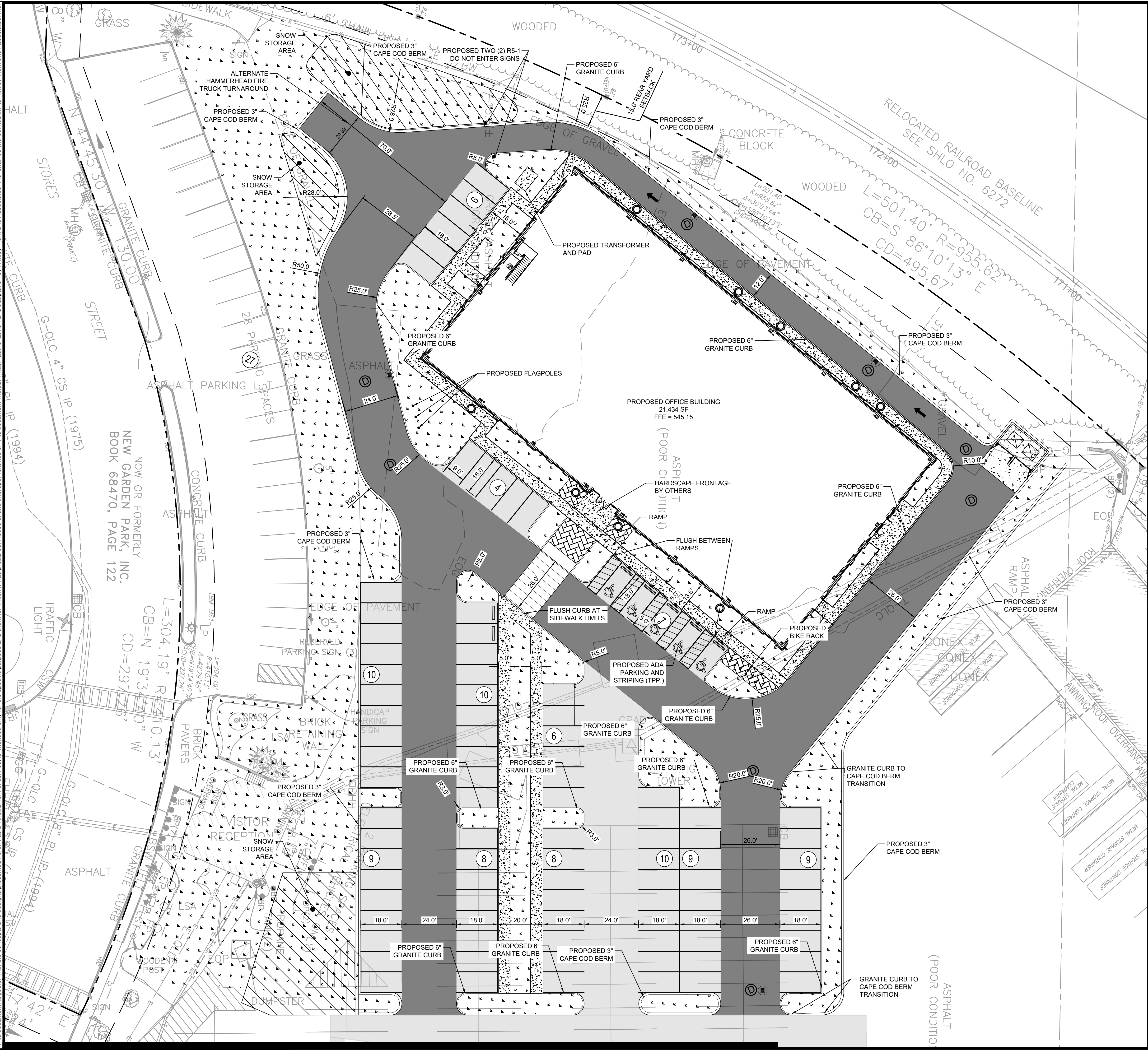








Plotted By: Poudel, Samiksha, Sheet Set: St Gobain Office, Layout: C-400, April 12, 2024, 04:23:05pm, K:\BOS\_Civil\BOS Projects\112866000 - Worcester St Gobain Office\CAD\PlanSheets\C-400 SITE PLAN.dwg  
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NORTH

GRAPHIC SCALE IN FEET  
0 10 20 40

**LEGEND**

	PROPERTY LINE
	SETBACKS
	CONSTRUCTION LIMITS
	PROPOSED HEAVY DUTY ASPHALT
	PROPOSED LIGHT DUTY ASPHALT
	PROPOSED VEGETATION
	SNOW STORAGE AREA
	CAPE COD BERM
	GRANITE CURB
	PARKING COUNT

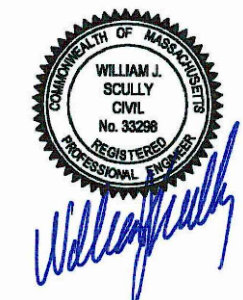
- SITE NOTES**
- ALL DIMENSIONS REFER TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
  - ALL CURB RADII ARE 5.0' UNLESS OTHERWISE NOTED.
  - BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
  - ALL EXISTING SIDEWALK AND CURB AND GUTTER CUTS SHALL BE TO THE NEAREST CONSTRUCTION JOINT.
  - REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.
  - ALL PROPOSED ON-SITE STRIPING SHALL BE PAINTED UNLESS OTHERWISE NOTED.
  - CONTRACTOR IS TO REPLACE ANY PAVEMENT MARKING THAT IS AFFECTED BY THE CONSTRUCTION.

NO.	REVISIONS	DATE	BY

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DATE: 04/12/2024  
CHECKED BY: DJL

KHA PROJECT 112866000	DATE 04/12/2024
SCALE AS SHOWN	DESIGNED BY: SP
	DRAWN BY: EIW

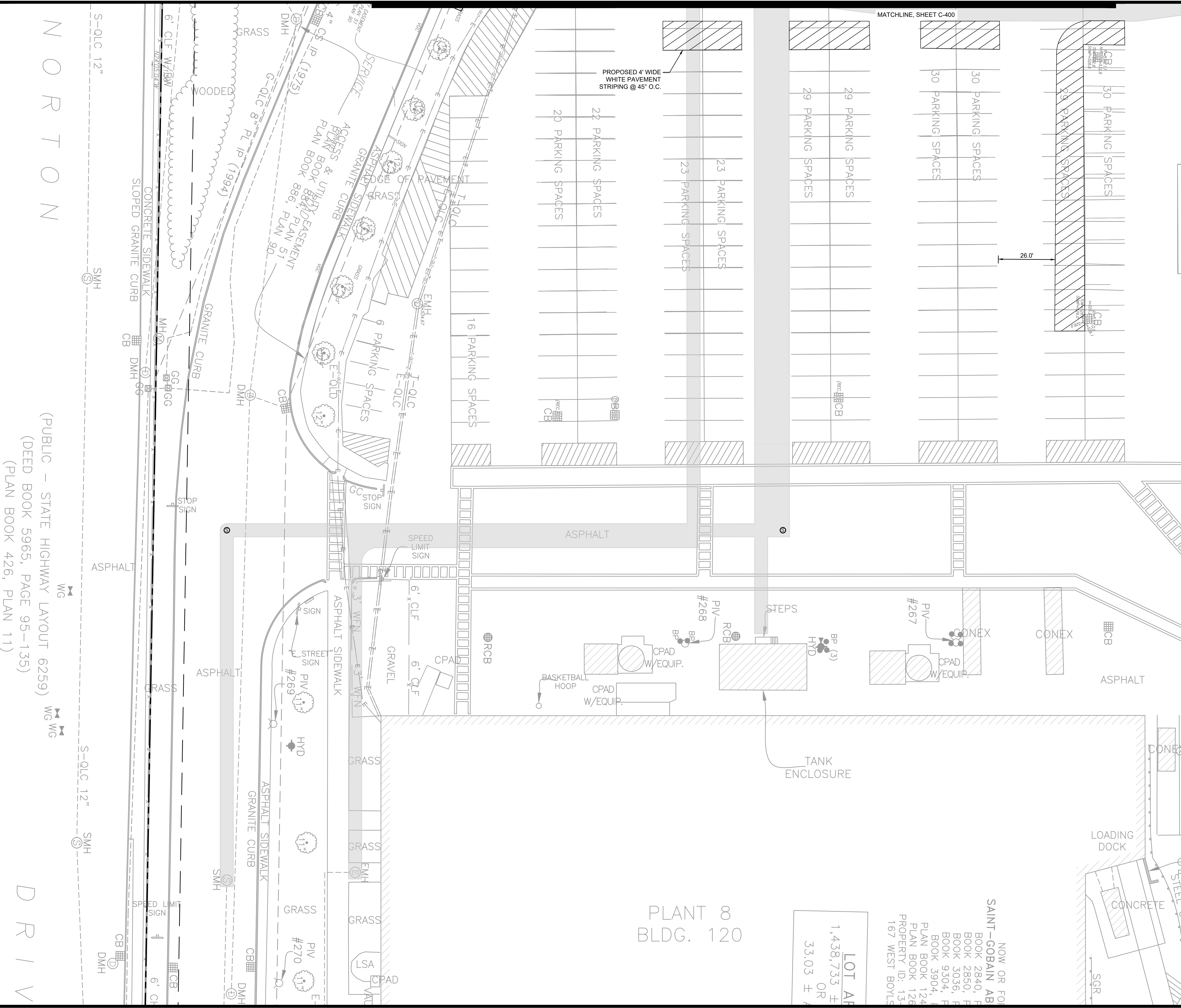
**SITE PLAN**

PROJECT EUROPA  
 PREPARED FOR  
 PURE DEVELOPMENT  
 CITY OF WORCESTER MASSACHUSETTS

SHEET NUMBER  
**C-400**



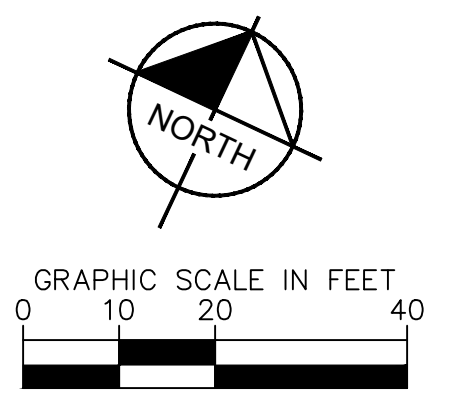
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 (DEED BOOK 5965, PAGE 95-135)  
 (PLAN BOOK 426, PLAN 11)

D R I V



LEGEND	
	PROPERTY LINE
	SETBACKS
	CONSTRUCTION LIMITS
	PROPOSED HEAVY DUTY ASPHALT
	PROPOSED LIGHT DUTY ASPHALT
	PROPOSED VEGETATION
	SNOW STORAGE AREA
	CAPE COD BERM
	GRANITE CURB
	PARKING COUNT

**SITE NOTES**

- ALL DIMENSIONS REFER TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL CURB RADII ARE 5.0' UNLESS OTHERWISE NOTED.
- BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
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- REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.
- ALL PROPOSED ON-SITE STRIPING SHALL BE PAINTED UNLESS OTHERWISE NOTED.
- CONTRACTOR IS TO REPLACE ANY PAVEMENT MARKING THAT IS AFFECTED BY THE CONSTRUCTION.

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 DATE: 04/12/2024  
 KHA PROJECT: 112866000  
 SCALE: AS SHOWN  
 DESIGNED BY: SP  
 DRAWN BY: EIW  
 CHECKED BY: DDL

**SITE PLAN**

PROJECT EUROPA  
 PREPARED FOR  
 PURE DEVELOPMENT  
 MASSACHUSETTS  
 CITY OF WORCESTER

SHEET NUMBER  
**C-401**

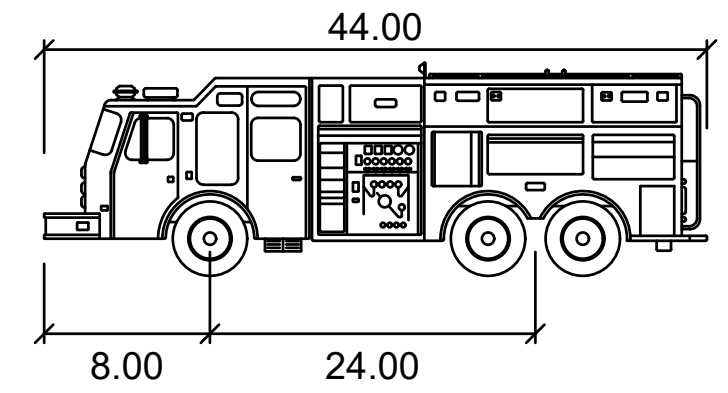
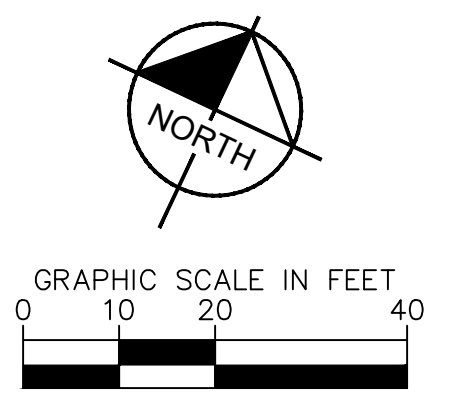
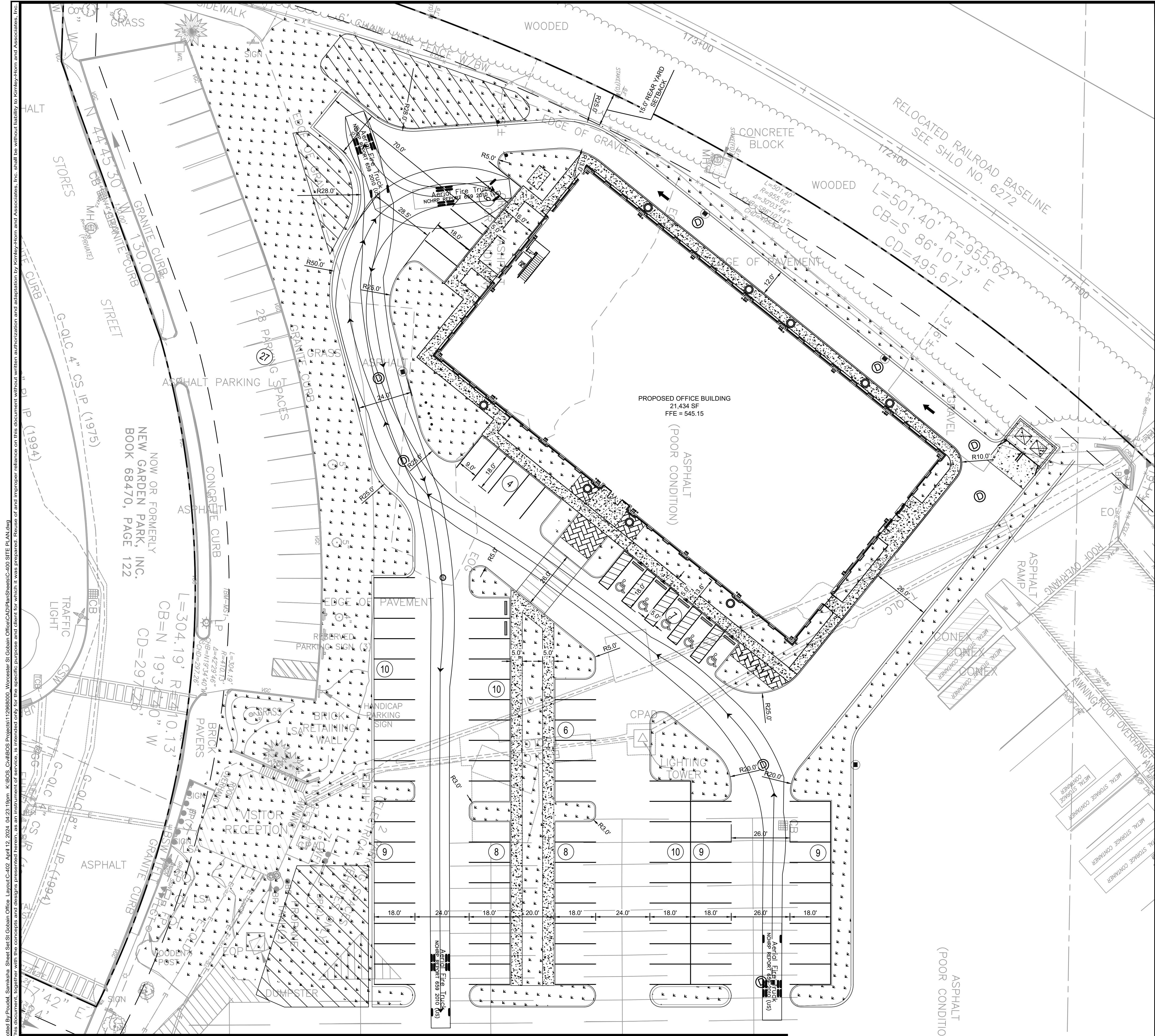
PLANT 8  
 BLDG. 120

LOT AREA  
 1,438,733 ±  
 OR  
 33.03 ±

NOW OR FOR  
 SAINT-GOBAIN AB  
 BOOK 2840, F  
 BOOK 2850, F  
 BOOK 3036, F  
 BOOK 9304, F  
 BOOK 3904, F  
 PLAN BOOK 124  
 PLAN BOOK 126  
 PROPERTY ID: 13-  
 167 WEST BOYLES

MATCHLINE, SHEET C-400





Pumper Fire Truck

	feet
Width	: 8.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 37.8

Plotted By: Poudel, Samiksha, Sheet Set: St Gobain Office, Layout: C-402, April 12, 2024, 04:23:19pm. K:\BOS\_Civil\BOS Projects\112866000 - Worcester St Gobain Office\CAD\PlanSheets\C-400 SITE PLAN.dwg  
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DATE: 04/12/2024

KHA PROJECT	112866000
DATE	04/12/2024
SCALE	AS SHOWN
DESIGNED BY	SP
DRAWN BY	EIW
CHECKED BY	DOL

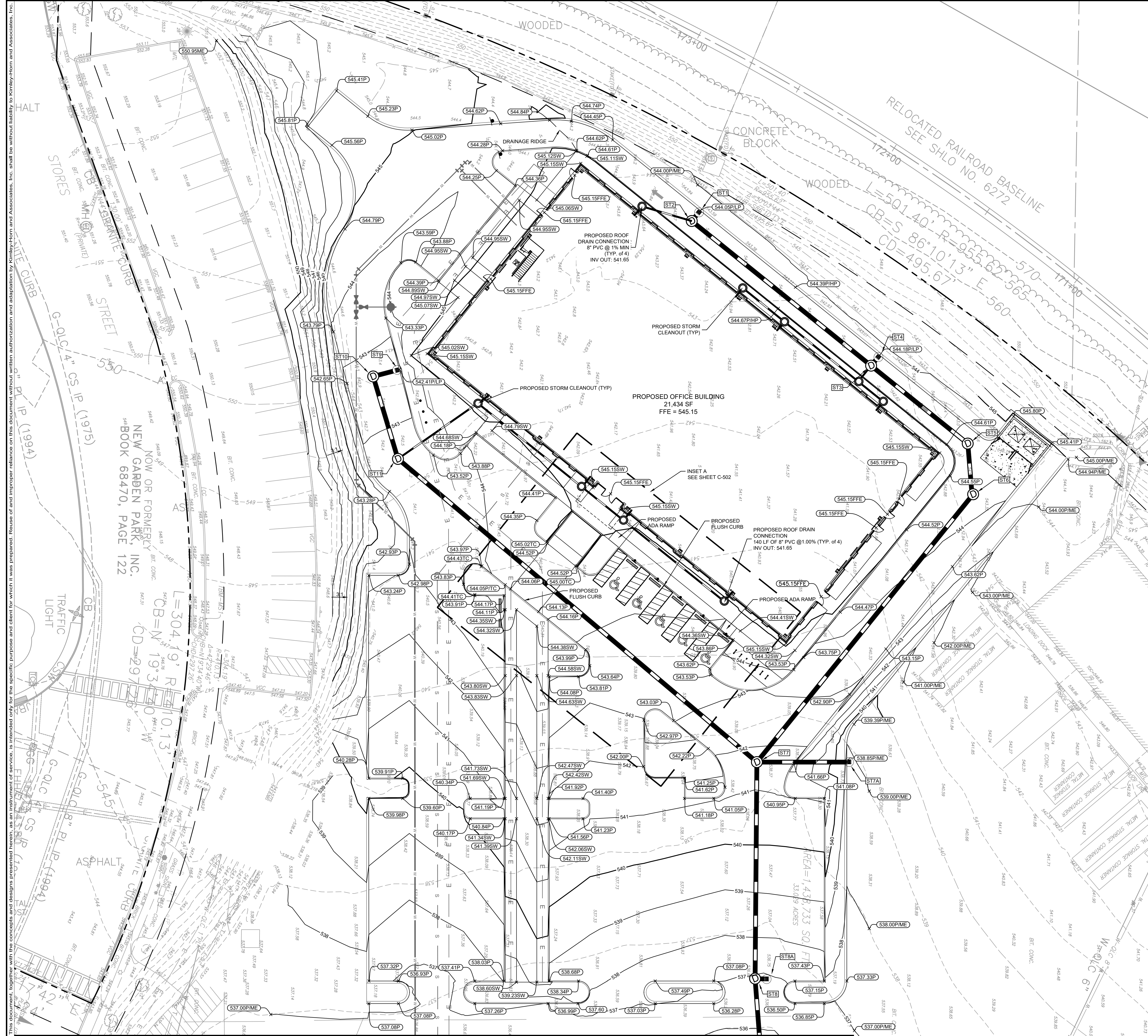
## FIRE TRUCK TURN PLAN

PROJECT EUROPA  
 PREPARED FOR  
 PURE DEVELOPMENT

CITY OF WORCESTER MASSACHUSETTS

SHEET NUMBER  
**C-402**





**LEGEND**

---XXX---	EXISTING CONTOUR
—XXX—	PROPOSED CONTOUR
X.XX	PROPOSED SLOPE
(294.80)	PROPOSED ELEVATION
P	PAVEMENT ELEVATION
TC	TOP OF CURB ELEVATION
HP	HIGH POINT ELEVATION
LP	LOW POINT ELEVATION
FFE	FINISHED FLOOR ELEVATION
ME	MATCH EXISTING ELEVATION
SW	SIDEWALK ELEVATION

- GRADING NOTES**
1. MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS.
  2. ALL PROPOSED SIDEWALKS AROUND THE BUILDING AND ALONG THE PROPERTY FRONTAGES SHALL HAVE A MAXIMUM 2% CROSS SLOPE AND 5% LONG SLOPE.
  3. ALL STORM DRAIN PIPE SHALL BE REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED.
  4. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH CITY OF WORCESTER AND STATE CODES.
  5. NO EARTHEN SLOPE SHALL BE GREATER THAN 3:1, UNLESS OTHERWISE NOTED.
  6. CONTRACTOR TO VERIFY ALL EXISTING TOPOGRAPHY AND STRUCTURES ON THE SITE AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.
  7. CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCE AND LOADING AREAS ADJACENT TO THE BUILDING.
  8. THE PROPOSED CATCHBASINS AND STORMWATER TREATMENT UNITS MUST BE CLEANED OF ANY SEDIMENT AND/OR DEBRIS AFTER ALL UPSTREAM AREAS HAVE BEEN INSTALLED.
  9. ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR TO COORDINATE WITH EXCAVATION, LANDSCAPE AND PAVING SUBCONTRACTORS REGARDING TOPSOIL THICKNESS FOR LANDSCAPE AREAS AND PAVEMENT SECTION THICKNESS FOR PAVED AREAS TO PROPERLY ENSURE ADEQUATE CUT TO ESTABLISH SUBGRADE ELEVATIONS.

NO.	REVISIONS	DATE	BY

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 DATE: 04/12/2024  
 SCALE: AS SHOWN  
 DESIGNED BY: SP  
 DRAWN BY: EIW  
 CHECKED BY: DDL

**GRADING PLAN**

**PROJECT EUROPA**  
 PREPARED FOR  
**PURE DEVELOPMENT**  
 CITY OF WORCESTER MASSACHUSETTS

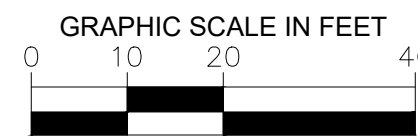
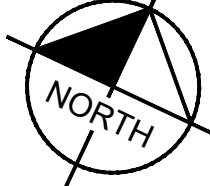
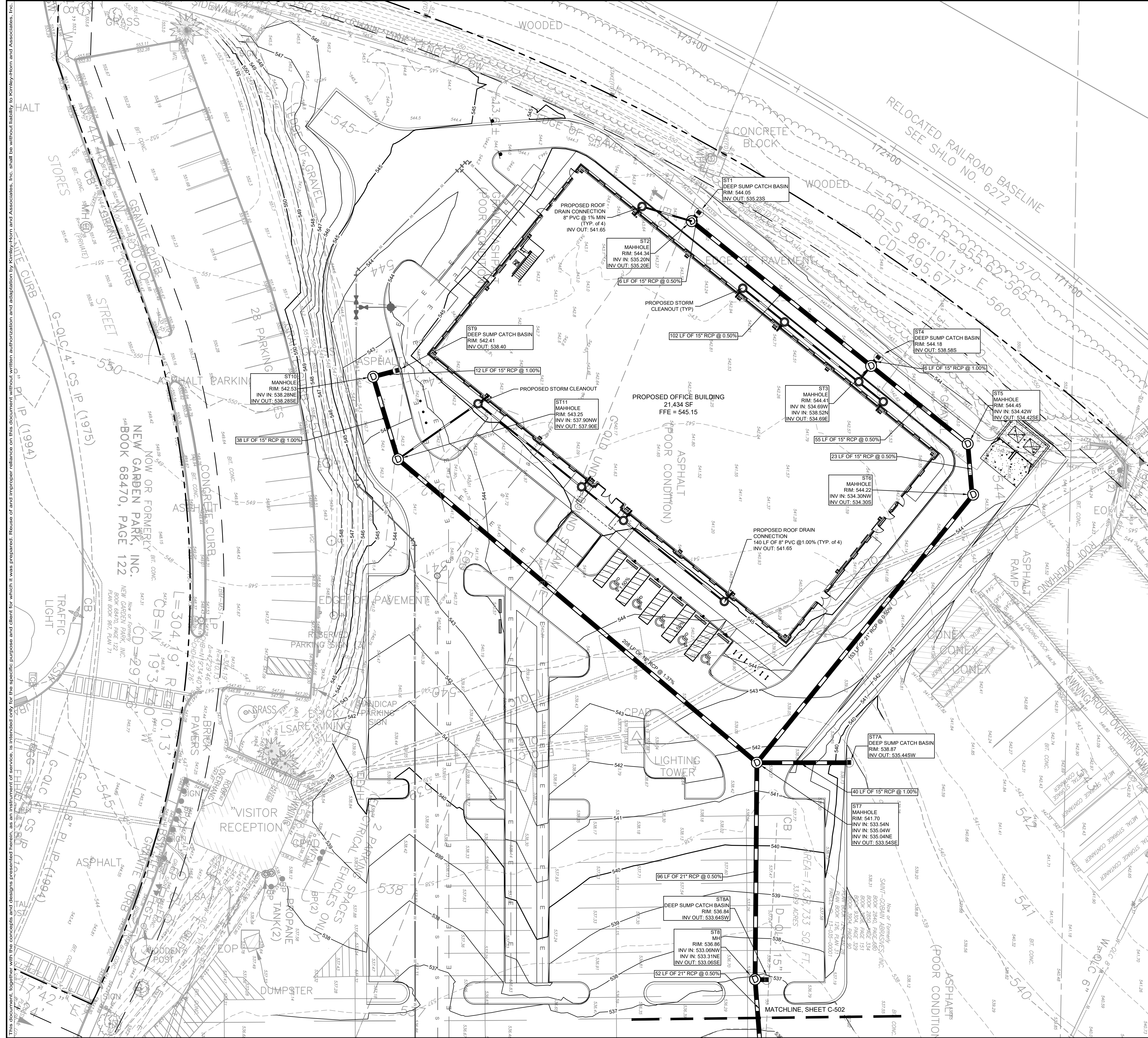
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**C-500**

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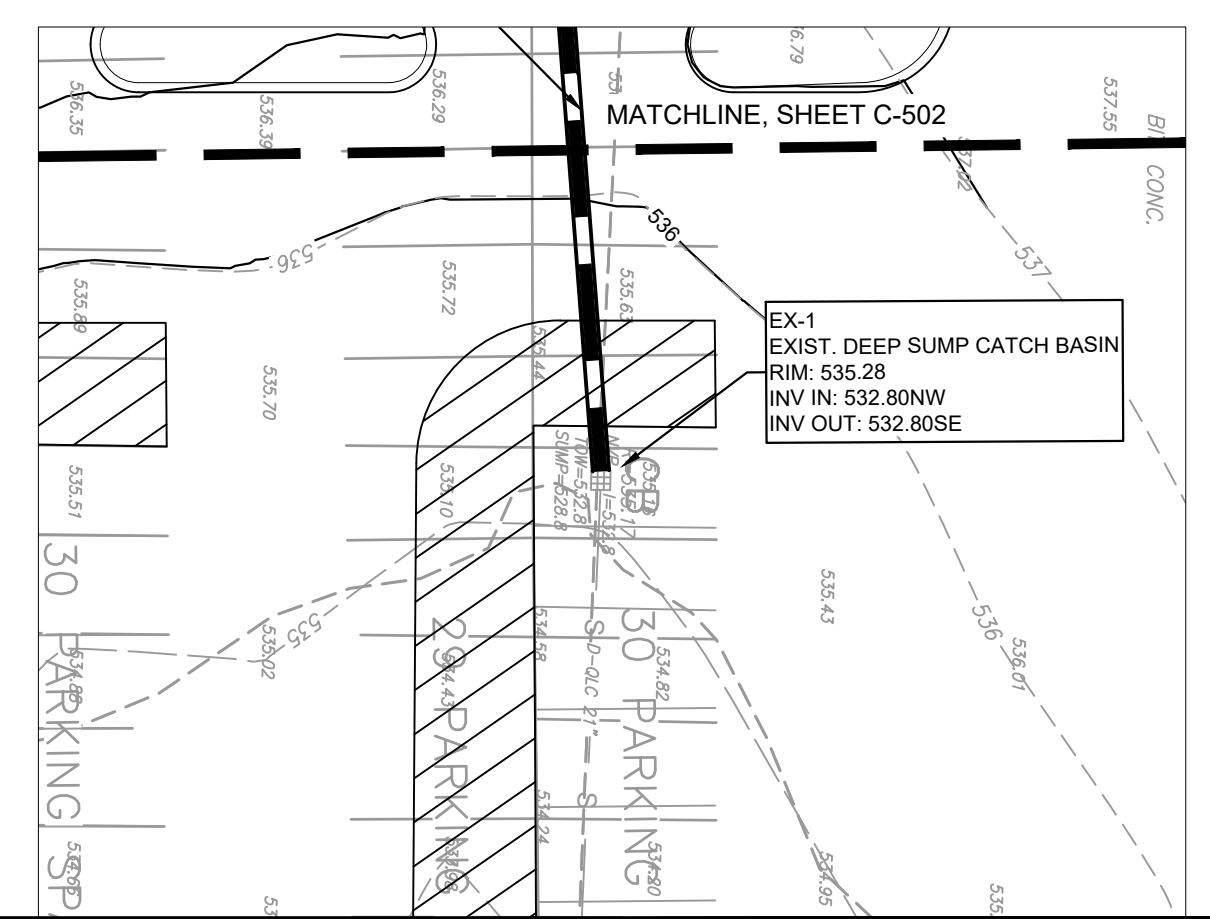






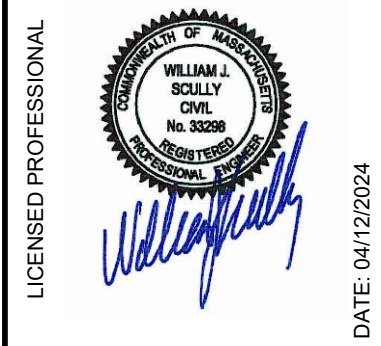


LEGEND	
--- XXX ---	EXISTING CONTOUR
— XXX —	PROPOSED CONTOUR



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 KHA PROJECT 11296000  
 DATE 04/12/2024  
 SCALE AS SHOWN  
 DESIGNED BY SP  
 DRAWN BY: EIW  
 CHECKED BY: DDL  
 DATE: 04/12/2024

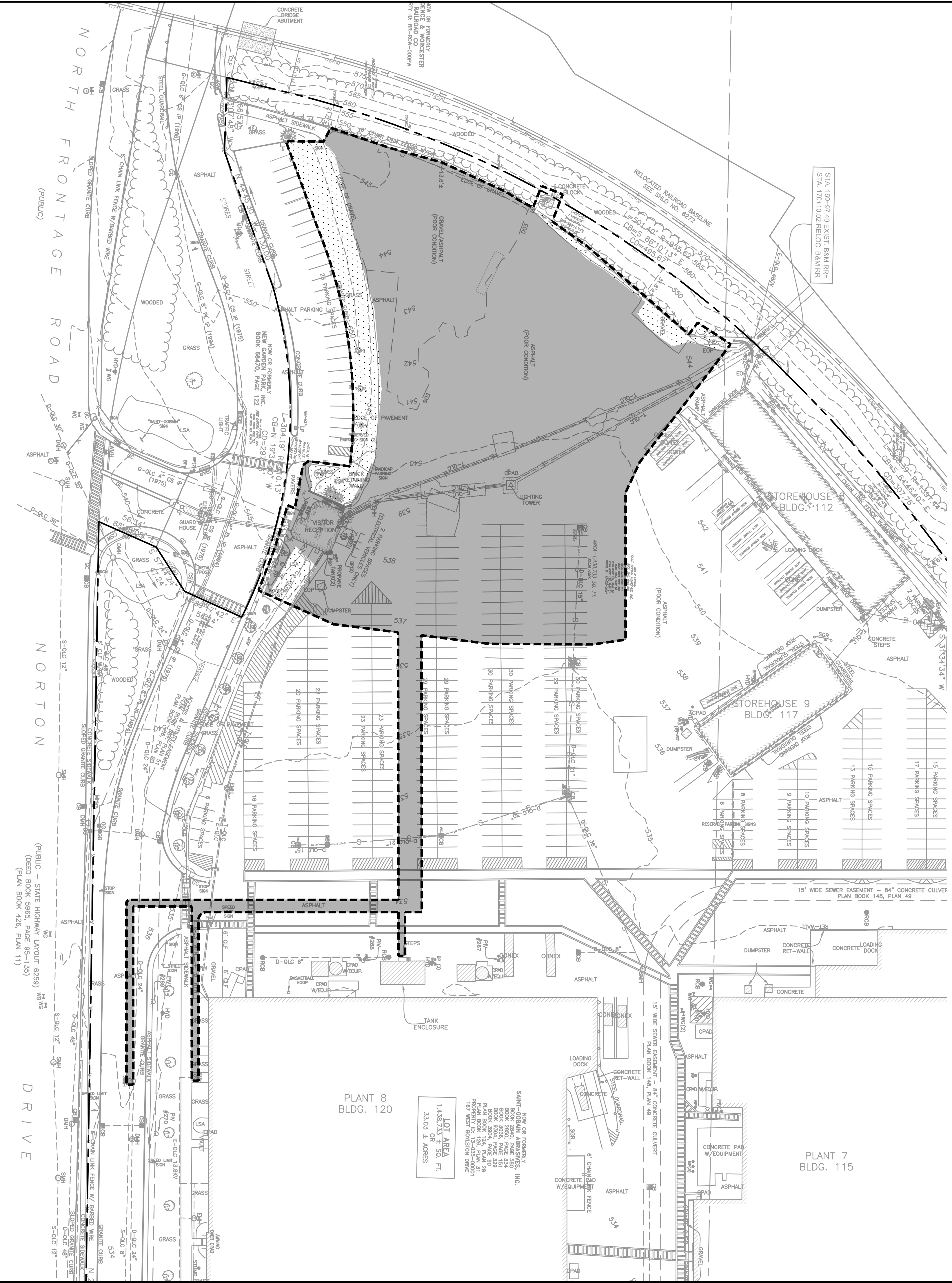
# DRAINAGE PLAN

PROJECT EUROPA  
 PREPARED FOR  
 PURE DEVELOPMENT  
 CITY OF WORCESTER MASSACHUSETTS  
 SHEET NUMBER  
**C-502**

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**LEGEND**

IMPERVIOUS

PERVIOUS

GRAPHIC SCALE IN FEET

0 25 50 100

**PRE-DEVELOPMENT LANDCOVER SUMMARY**

	OVERALL AREA (AC)	PERCENTAGE
TOTAL AREA	2.99	
PERVIOUS AREA	2.70	90.0%
IMPERVIOUS AREA	0.30	10.0%

No.	REVISIONS	DATE	BY
1			
2			
3			
4			
5			
6			
7			

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LICENSED PROFESSIONAL

*William J. Kelly*

WILLIAM J. KELLY  
 CIVIL ENGINEER  
 No. 10000

DATE: 04/12/2024

KHA PROJECT	112866000
DATE	04/12/2024
SCALE	AS SHOWN
DESIGNED BY: SP	
DRAWN BY: EIW	
CHECKED BY: DDL	

**PRE DEVELOPMENT DRAINAGE AREA MAP**

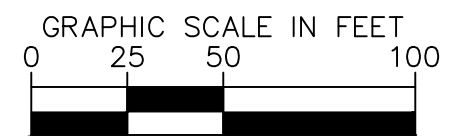
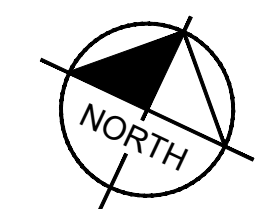
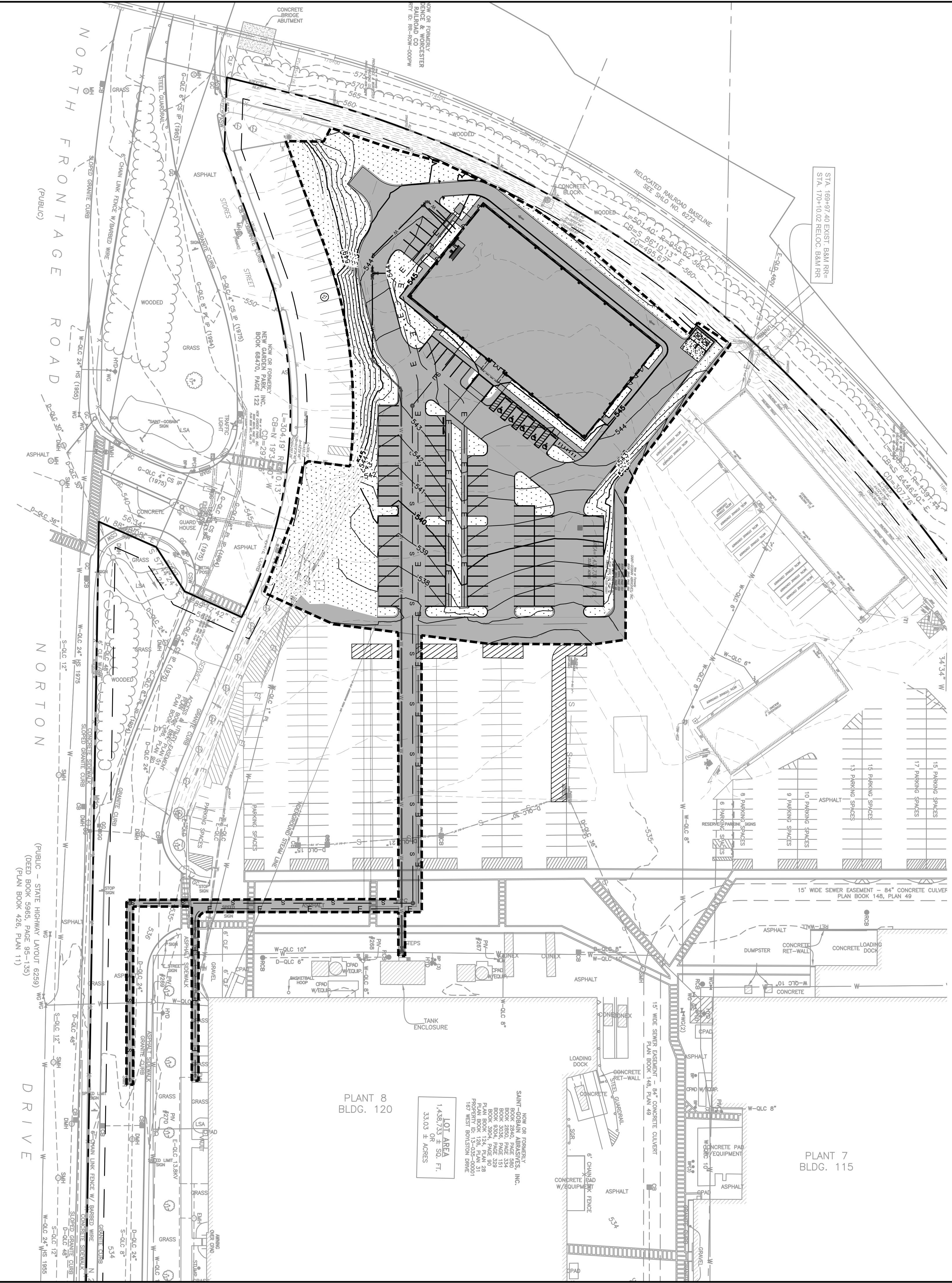
**PROJECT EUROPA**  
 PREPARED FOR  
**PURE DEVELOPMENT**

CITY OF WORCESTER MASSACHUSETTS

SHEET NUMBER  
**C-503**



Plotted By: Poudel, Samiksha, Sheet Set: St Goban Office, Layout: C-503, April 12, 2024, 04:28:05pm, K:\BOS\_Civil\BOS Projects\112866000 - Worcester St Goban Office\CAD\PlanSheets\POST DEVELOPMENT DRAINAGE.dwg  
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LEGEND	
	IMPERVIOUS
	PERVIOUS

POST-DEVELOPMENT LANDCOVER SUMMARY		
	OVERALL AREA	PERCENTAGE
TOTAL AREA	2.99	
PERVIOUS AREA	0.82	27.5%
IMPERVIOUS AREA	2.17	72.5%

No.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL  
  
 DATE: 04/12/2024

KHA PROJECT	112866000
DATE	04/12/2024
SCALE	AS SHOWN
DESIGNED BY: SP	
DRAWN BY: EIW	
CHECKED BY: DDL	

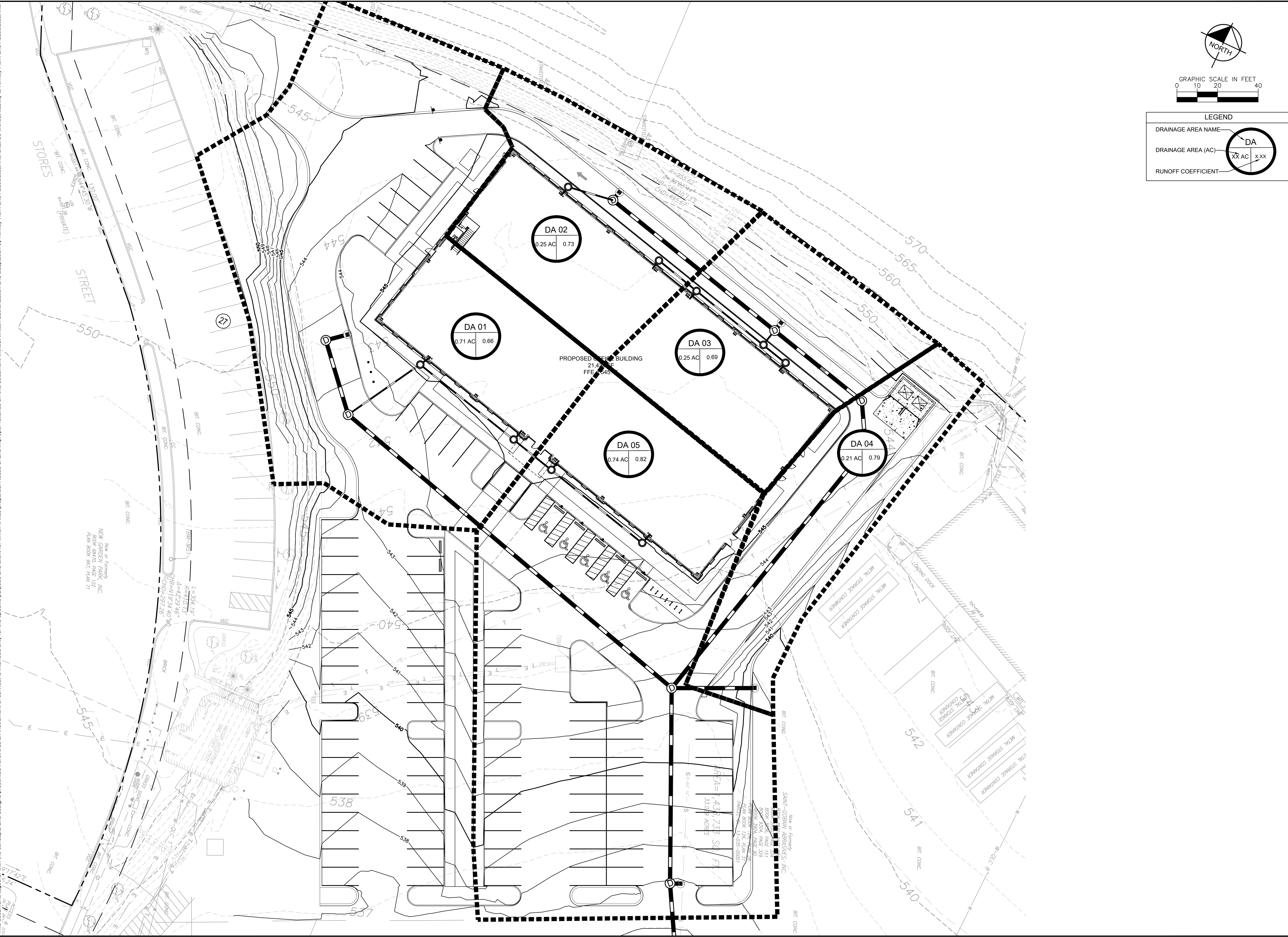
**POST DEVELOPMENT  
 DRAINAGE AREA MAP**

**PROJECT EUROPA  
 PREPARED FOR  
 PURE DEVELOPMENT**  
 CITY OF WORCESTER MASSACHUSETTS

SHEET NUMBER  
**C-504**



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**LEGEND**

DRAINAGE AREA NAME: DA  
 DRAINAGE AREA (AC): XX AC, X.XX  
 RUNOFF COEFFICIENT: (Symbol)

No.	REVISIONS	BY	DATE

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LICENSED PROFESSIONAL

DATE: 04/12/2024

KHA PROJECT: 112866000  
 DATE: 04/12/2024  
 SCALE: AS SHOWN  
 DESIGNED BY: SP  
 DRAWN BY: EIW  
 CHECKED BY: DDL

**POST DEVELOPMENT  
 INLET DRAINAGE  
 AREAS**

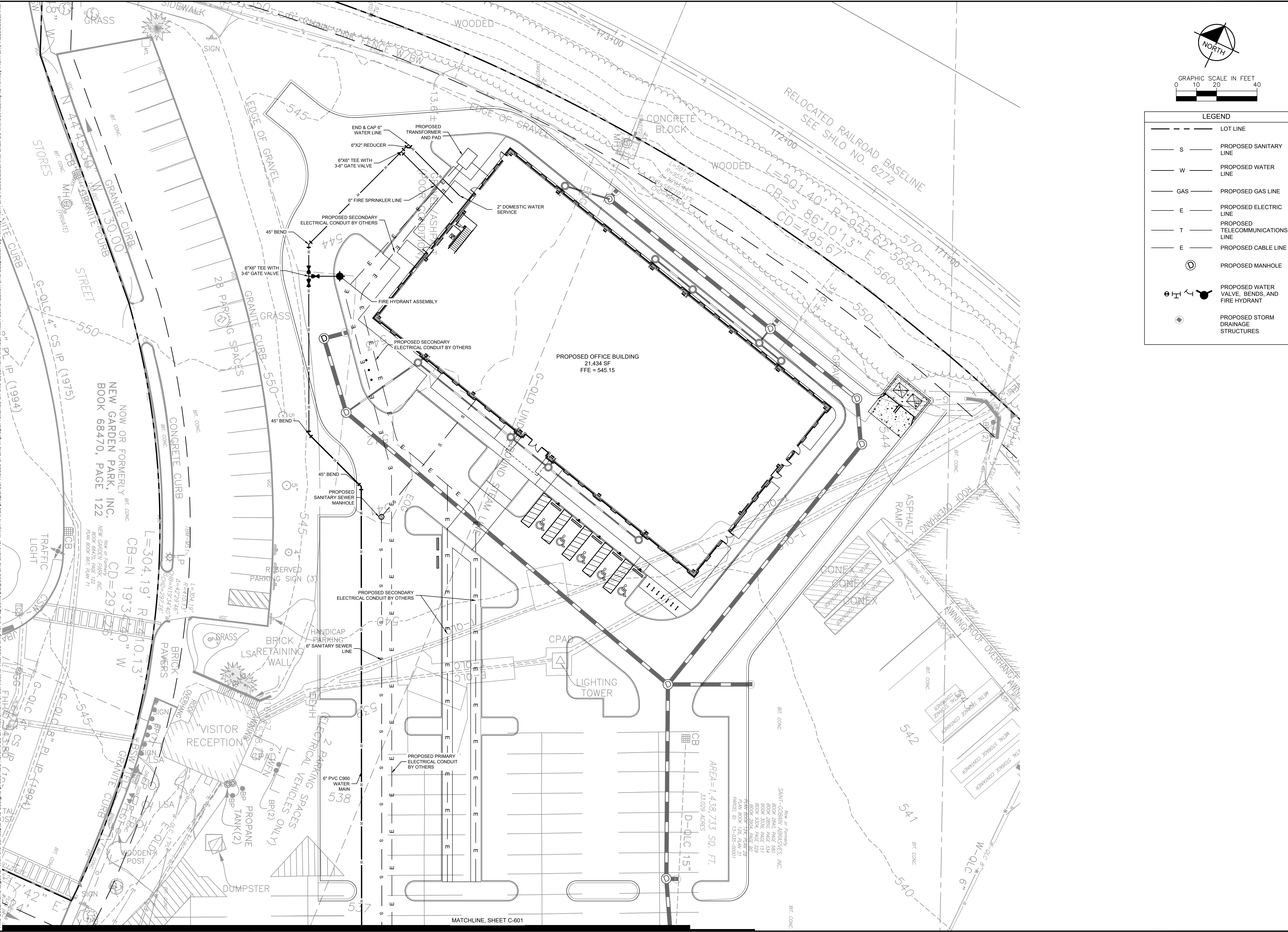
**PROJECT EUROPA  
 PREPARED FOR  
 PURE DEVELOPMENT**

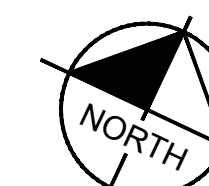
CITY OF WORCESTER MASSACHUSETTS

SHEET NUMBER  
**C-505**



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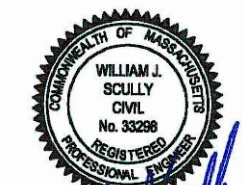


GRAPHIC SCALE IN FEET  
0 10 20 40

LEGEND	
---	LOT LINE
S	PROPOSED SANITARY LINE
W	PROPOSED WATER LINE
GAS	PROPOSED GAS LINE
E	PROPOSED ELECTRIC LINE
T	PROPOSED TELECOMMUNICATIONS LINE
E	PROPOSED CABLE LINE
⊙	PROPOSED MANHOLE
⊕	PROPOSED WATER VALVE, BENDS, AND FIRE HYDRANT
⊙	PROPOSED STORM DRAINAGE STRUCTURES

NO.	REVISIONS	DATE	BY

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 PHONE: 781-328-0676  
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LICENSED PROFESSIONAL  
  
 DATE: 04/12/2024  
 KHA PROJECT: 112866000  
 DATE: 04/12/2024  
 SCALE: AS SHOWN  
 DESIGNED BY: SP  
 DRAWN BY: EIW  
 CHECKED BY: DDL

# UTILITY PLAN

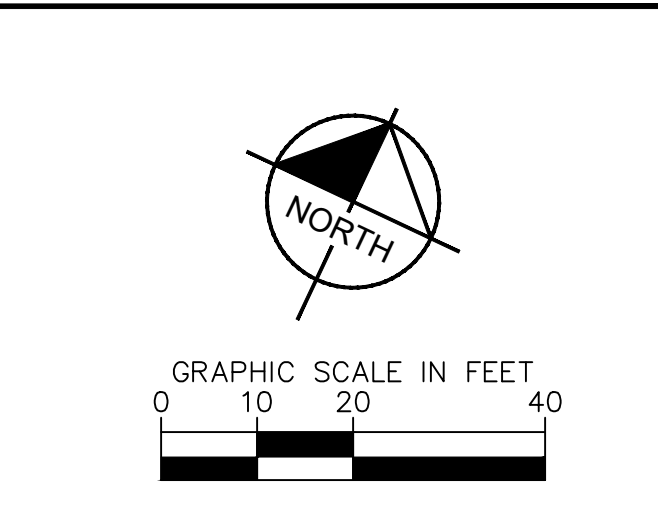
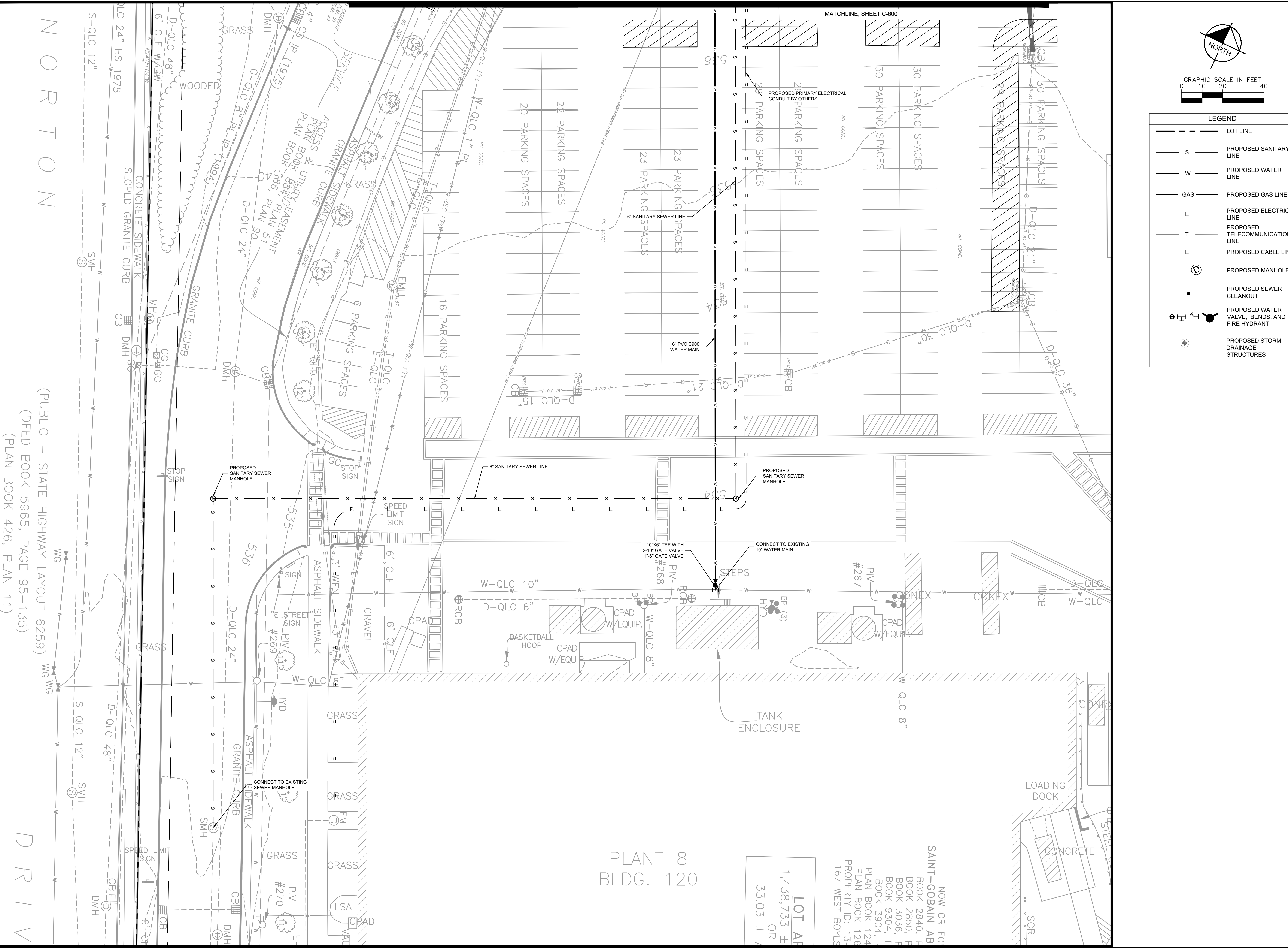
**PROJECT EUROPA**  
 PREPARED FOR  
**PURE DEVELOPMENT**  
 CITY OF WORCESTER MASSACHUSETTS

SHEET NUMBER  
**C-600**

MATCHLINE, SHEET C-601



Plotted By: Pouel, Samiksha Sheet: St Gobain Office Layout: C-602 April 12, 2024 04:25:44pm K:\BOS\_Civil\BOS Projects\11286000 - Worcester St Gobain\CAD\PlanSheets\C-601 UTILITY PLAN.dwg  
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LEGEND	
---	LOT LINE
S	PROPOSED SANITARY LINE
W	PROPOSED WATER LINE
GAS	PROPOSED GAS LINE
E	PROPOSED ELECTRIC LINE
T	PROPOSED TELECOMMUNICATIONS LINE
E	PROPOSED CABLE LINE
⊙	PROPOSED MANHOLE
●	PROPOSED SEWER CLEANOUT
⊕	PROPOSED WATER VALVE, BENDS, AND FIRE HYDRANT
⊕	PROPOSED STORM DRAINAGE STRUCTURES

NO.	REVISIONS	DATE	BY

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 DATE: 04/12/2024

# UTILITY PLAN

PROJECT EUROPA  
 PREPARED FOR  
 PURE DEVELOPMENT  
 CITY OF WORCESTER MASSACHUSETTS

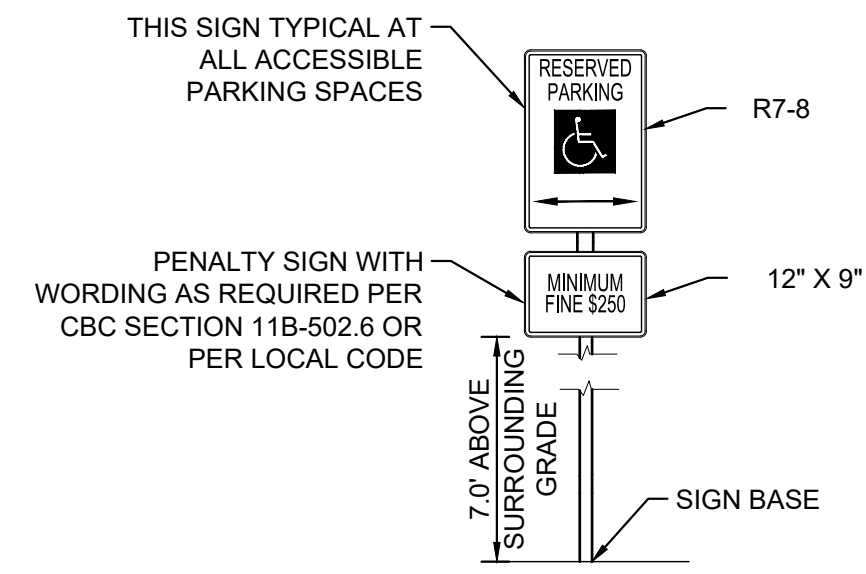
NORTON  
 (PUBLIC - STATE HIGHWAY LAYOUT 6259)  
 (DEED BOOK 5965, PAGE 95-135)  
 (PLAN BOOK 426, PLAN 11)  
 D R I V

PLANT 8  
 BLDG. 120

LOT AREA  
 1,438,733 ±  
 OR  
 33.03 ±

NOW OR FOR  
 SAINT-GOBAIN AB  
 BOOK 2840, F  
 BOOK 2850, F  
 BOOK 3036, F  
 BOOK 9304, F  
 BOOK 3904, F  
 PLAN BOOK 124  
 PLAN BOOK 126  
 PROPERTY ID: 13-  
 167 WEST BOYLES

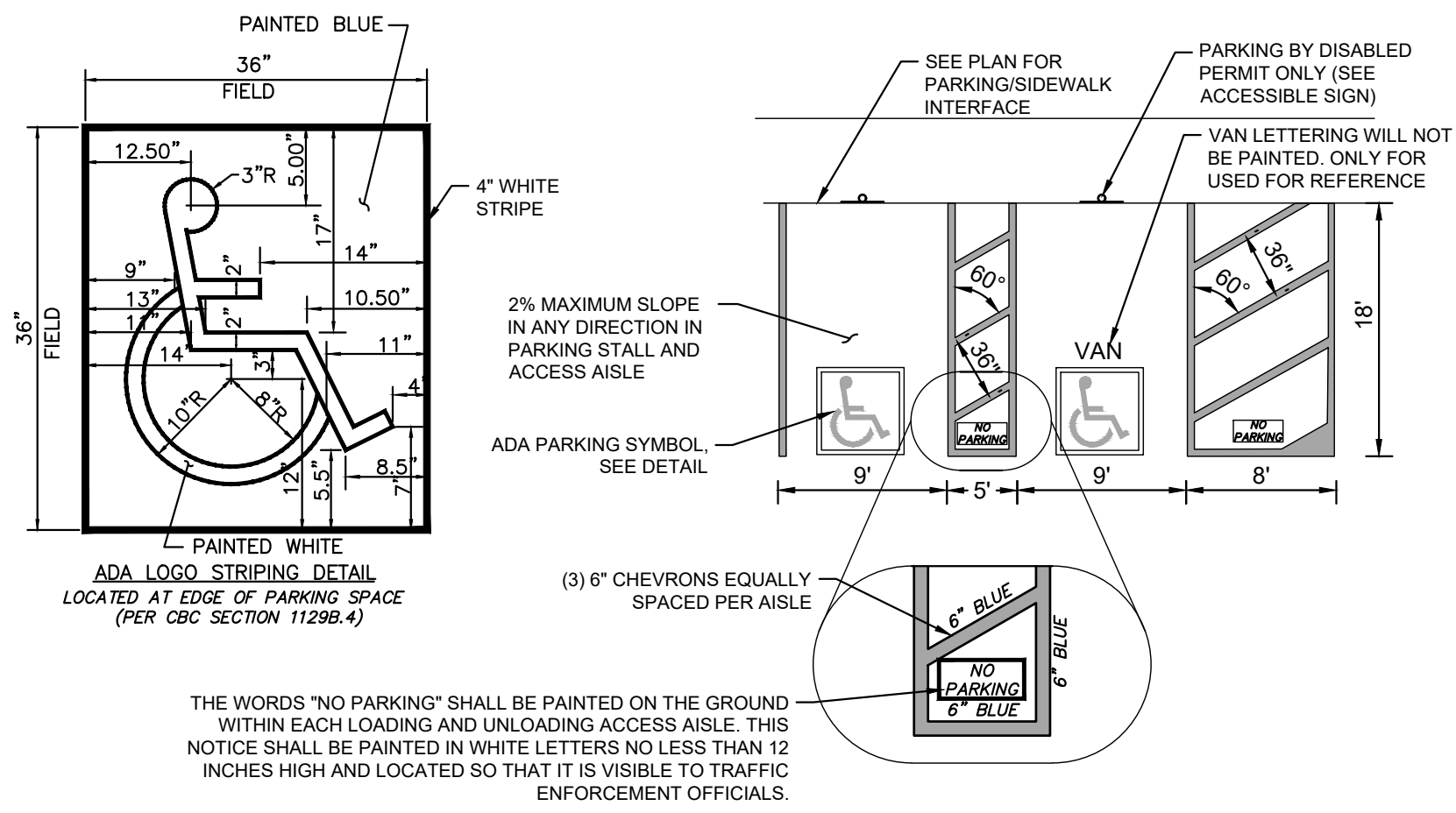
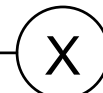




- NOTES:**
- SIGNS SHALL CONFORM WITH THE MOST CURRENT MASSACHUSETTS DOT STANDARDS.
  - SIGNS SHALL BE MOUNTED ON A POST.

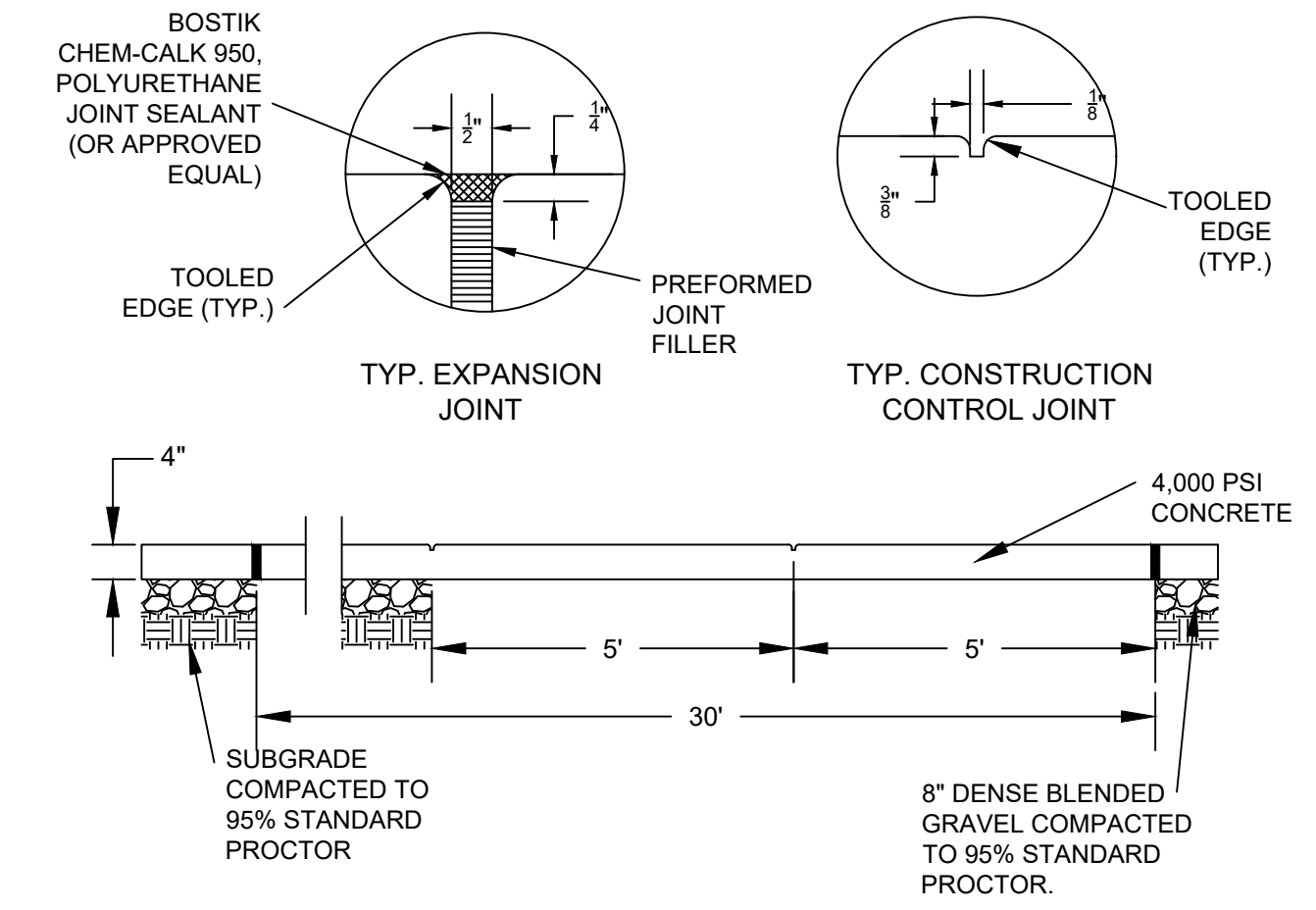
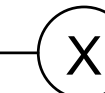
**ACCESSIBLE PARKING STRIPING**

N.T.S.



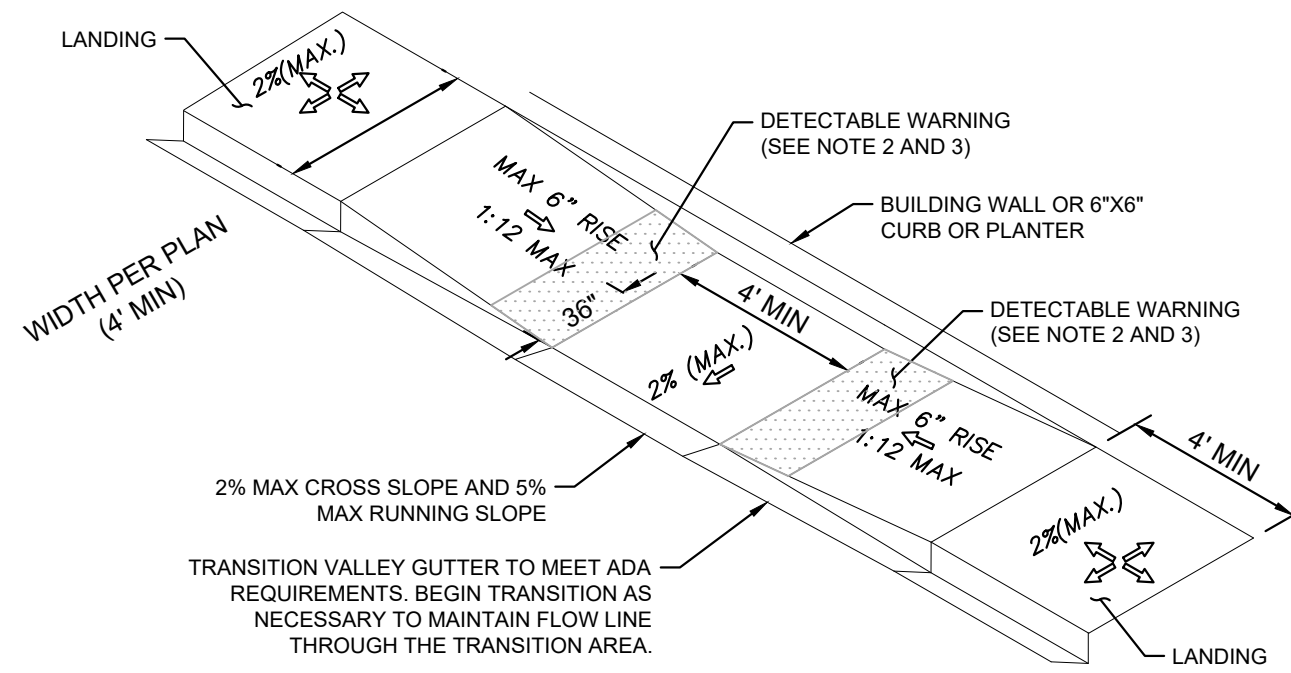
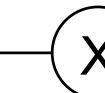
**ACCESSIBLE PARKING STRIPING**

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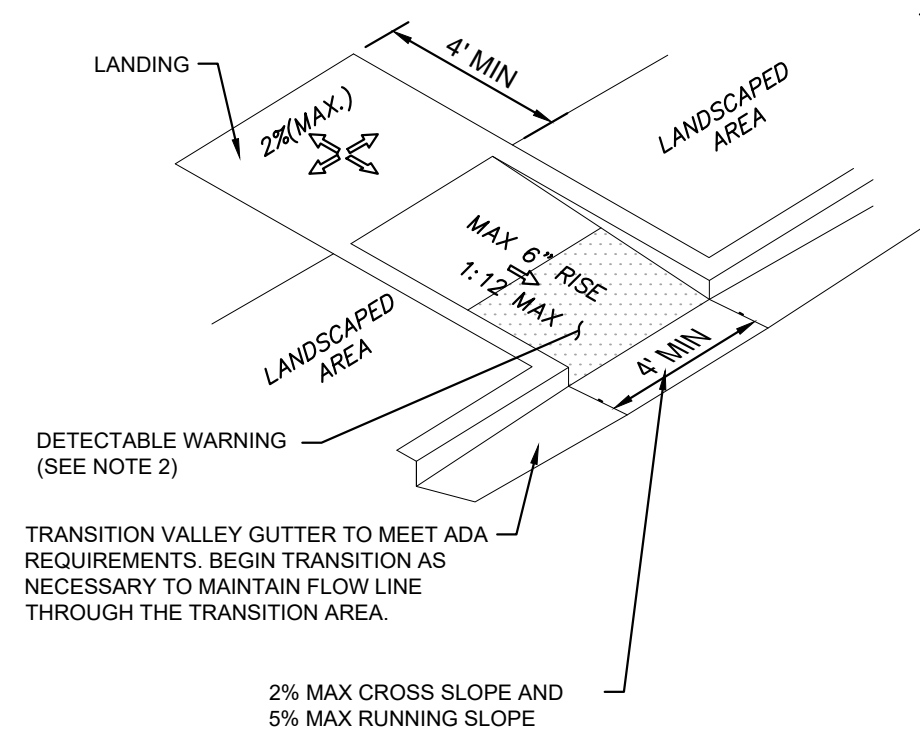


**TYPICAL SIDEWALK DETAIL**

N.T.S.



**DOUBLE RAMP CURB RAMP**

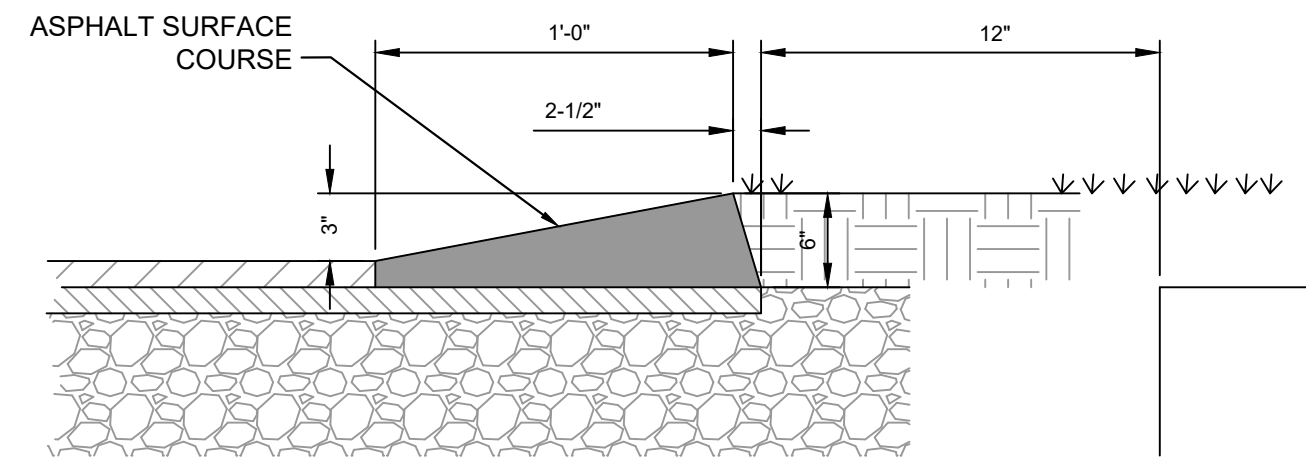
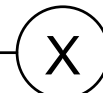


**IN-LINE CURB RAMP**

- NOTES:**
- ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH THE LOCAL, STATE, AND FEDERAL REGULATIONS WHICHEVER ARE MORE STRINGENT.
  - CURB RAMP SURFACES SHALL HAVE A DETECTABLE WARNING EXTENDING THE FULL WIDTH OF THE CURB RAMP AND 3' DEEP. GROOVED SURFACES ON OUTDOOR CURB RAMP SURFACES ARE NOT PERMITTED. VERIFY LOCAL REQUIREMENTS WITH THE BUILDING DEPARTMENT. REFER TO TRUNCATED DOMES DETAIL AND REQUIREMENTS IN THE CALIFORNIA BUILDING CODE.
  - PARALLEL CURB RAMP SURFACES SHALL HAVE A DETECTABLE WARNING EXTENDING 36" DEEP ALONG THE FLUSH TRANSITION BETWEEN STREET AND SIDEWALK. REFER TO TRUNCATED DOMES DETAIL.
  - PUBLIC SIDEWALK CURB RAMP SURFACES CONSTRUCTED WITHIN A PUBLIC RIGHT-OF-WAY, IN ABSENCE OF LOCAL ROADWAY GUIDELINES, SHALL MEET OR EXCEED LOCAL REGULATIONS.
  - CURB RAMP SURFACES (FLARES AND RAMP) SHALL HAVE A DIFFERENT TEXTURE FROM THE SURROUNDING PAVEMENT.
  - CURB RAMP SURFACES SHALL BE CONCRETE WITH STRENGTH OF 2500 PSI.
  - INSTALL 1/4" EXPANSION JOINT FILLER MATERIAL BETWEEN A NEW CURB RAMP AND THE EXISTING SIDEWALKS.
  - WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED.
  - NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.
  - CROSS SLOPE OF THE CURB RAMP SURFACE SHALL BE LESS THAN 2%.
  - TRANSITION CHANGE IN ELEVATION IS NOT TO EXCEED 1/2" WITHIN AN ACCESSIBLE ROUTE.
  - DIAGONAL CURB RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 10% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP.

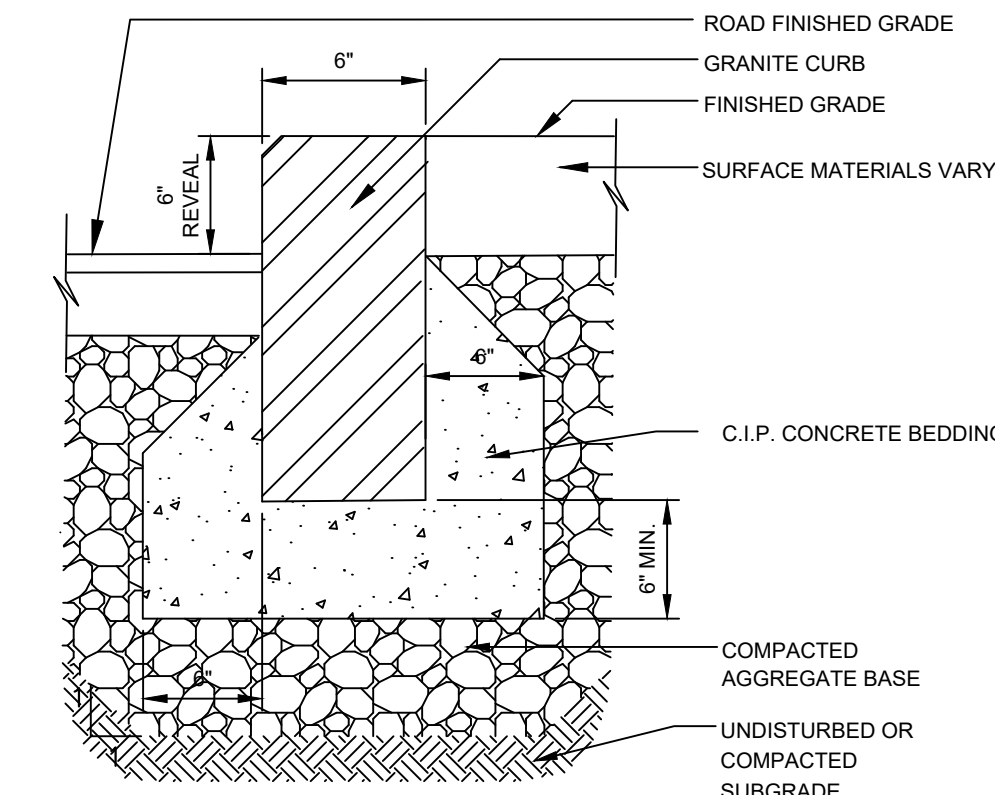
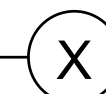
**ACCESSIBLE RAMP DETAIL**

N.T.S.



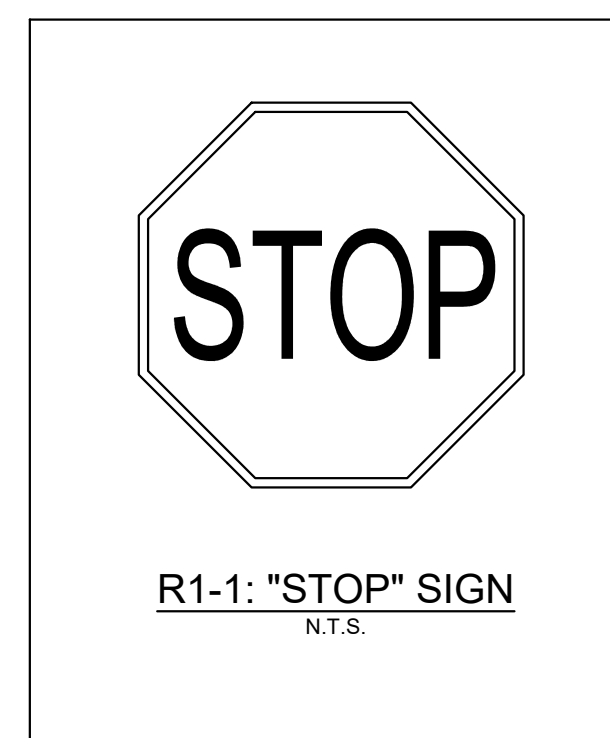
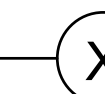
**CAPE COD BERM DETAIL**

N.T.S.



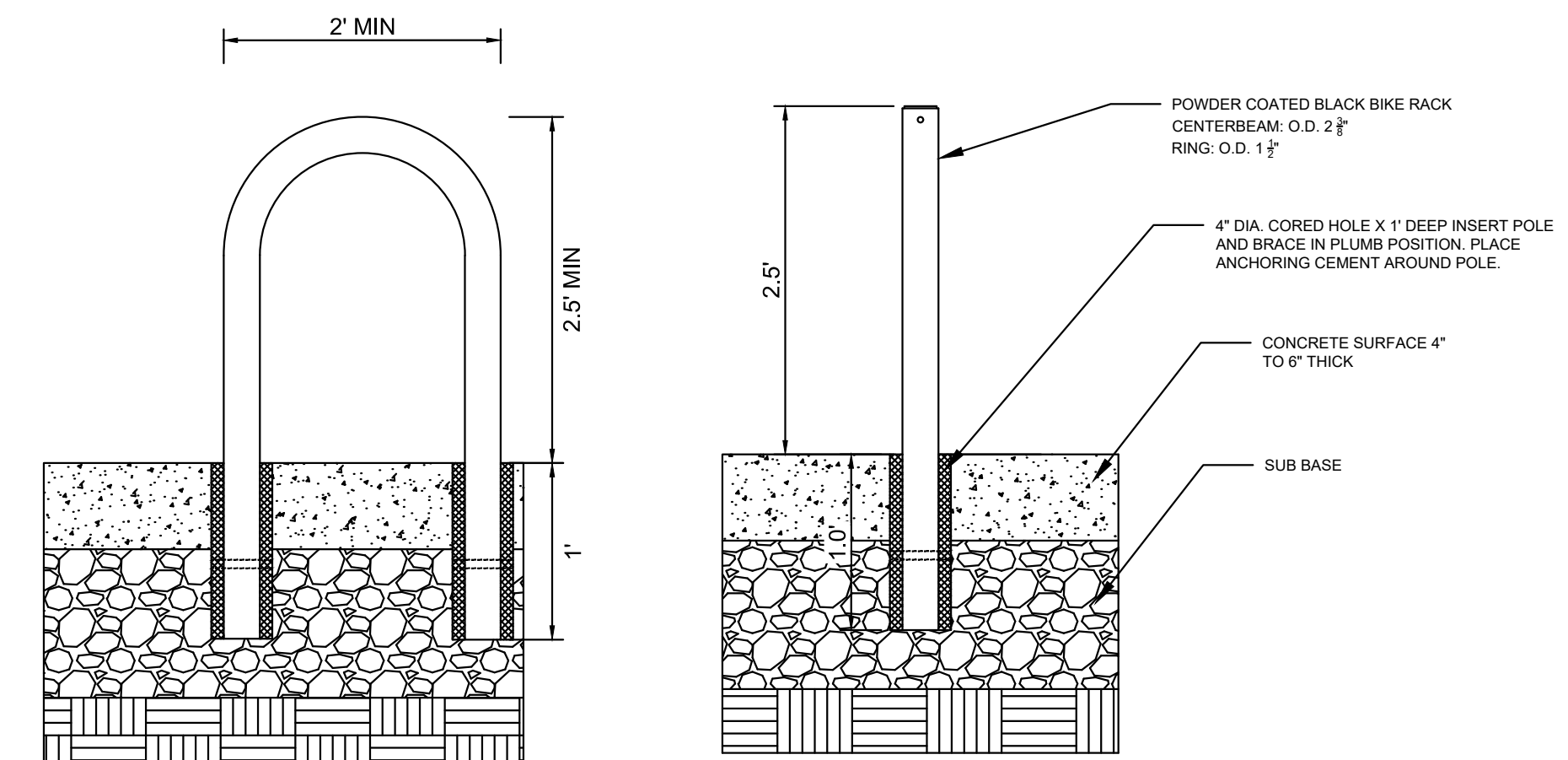
**GRANITE CURB DETAIL**

N.T.S.



**R1-1: "STOP" SIGN**

N.T.S.



**BIKE RACK**

N.T.S.

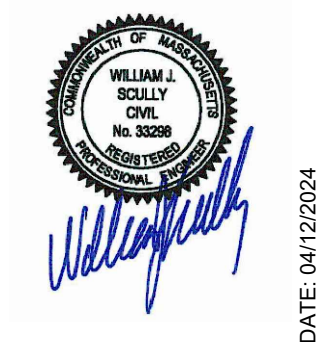


- NOTES:**
- BIKE RACKS SHALL BE INSTALLED AT LEAST 3 FEET FROM ANY OBSTRUCTIONS AND AT LEAST 2 FEET FROM THE BACK OF CURB, AND ORIENTED PARALLEL TO THE ROADWAY.
  - CORE HOLES FOR CONCRETE FOOTINGS SHALL BE NO LESS THAN 4 INCHES IN DIAMETER AND NO LESS THAN 12 INCHES DEEP INTO THE GROUND.

**BIKE RACK**

N.T.S.

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KHA PROJECT	11296000
DATE	04/12/2024
SCALE	AS SHOWN
DESIGNED BY: SP	
DRAWN BY: EIW	
CHECKED BY: DDL	

**CONSTRUCTION DETAILS**

**PROJECT EUROPA**  
 PREPARED FOR  
**PURE DEVELOPMENT**

**SHEET NUMBER**  
**C-700**

NO.	REVISIONS	DATE	BY

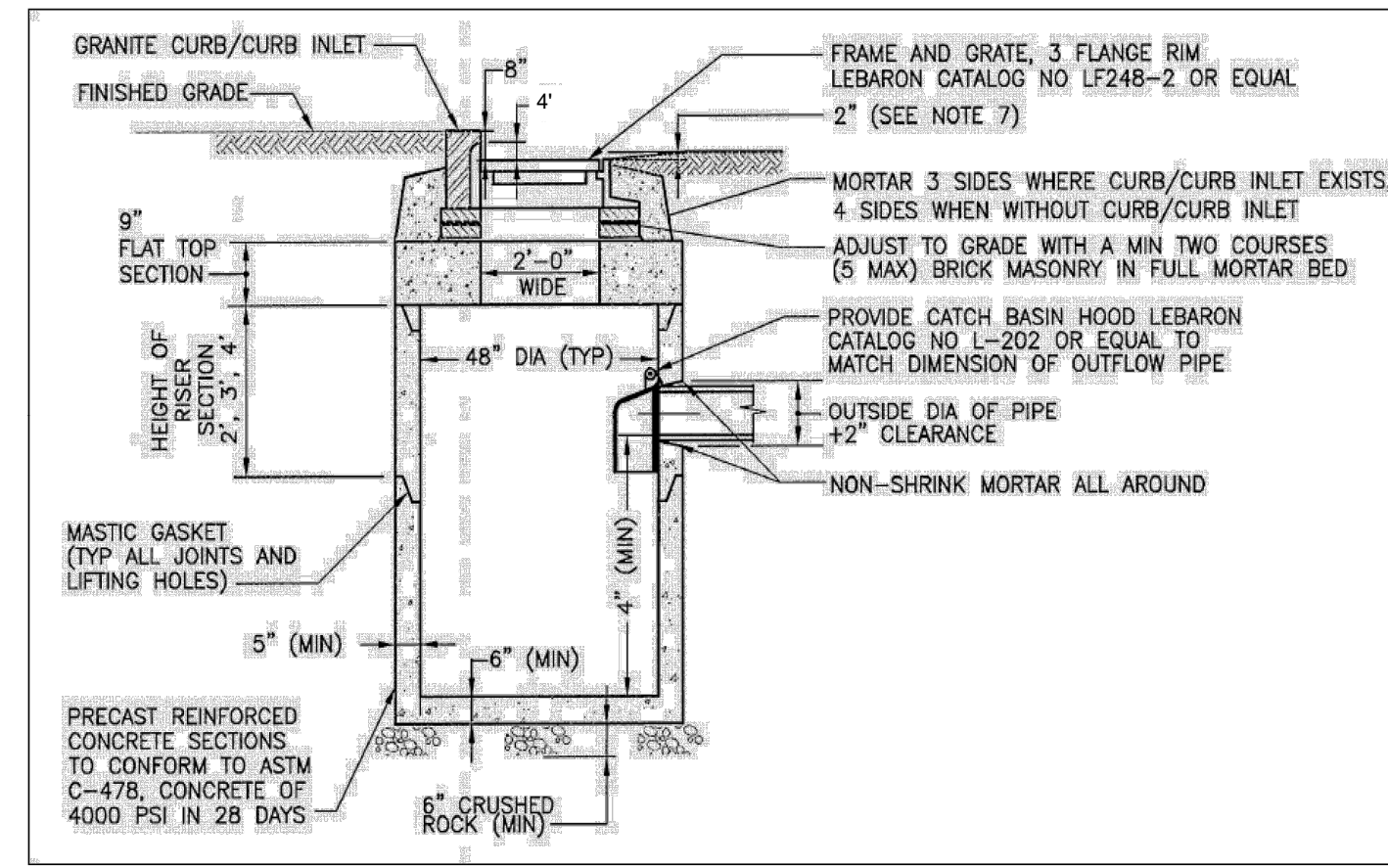
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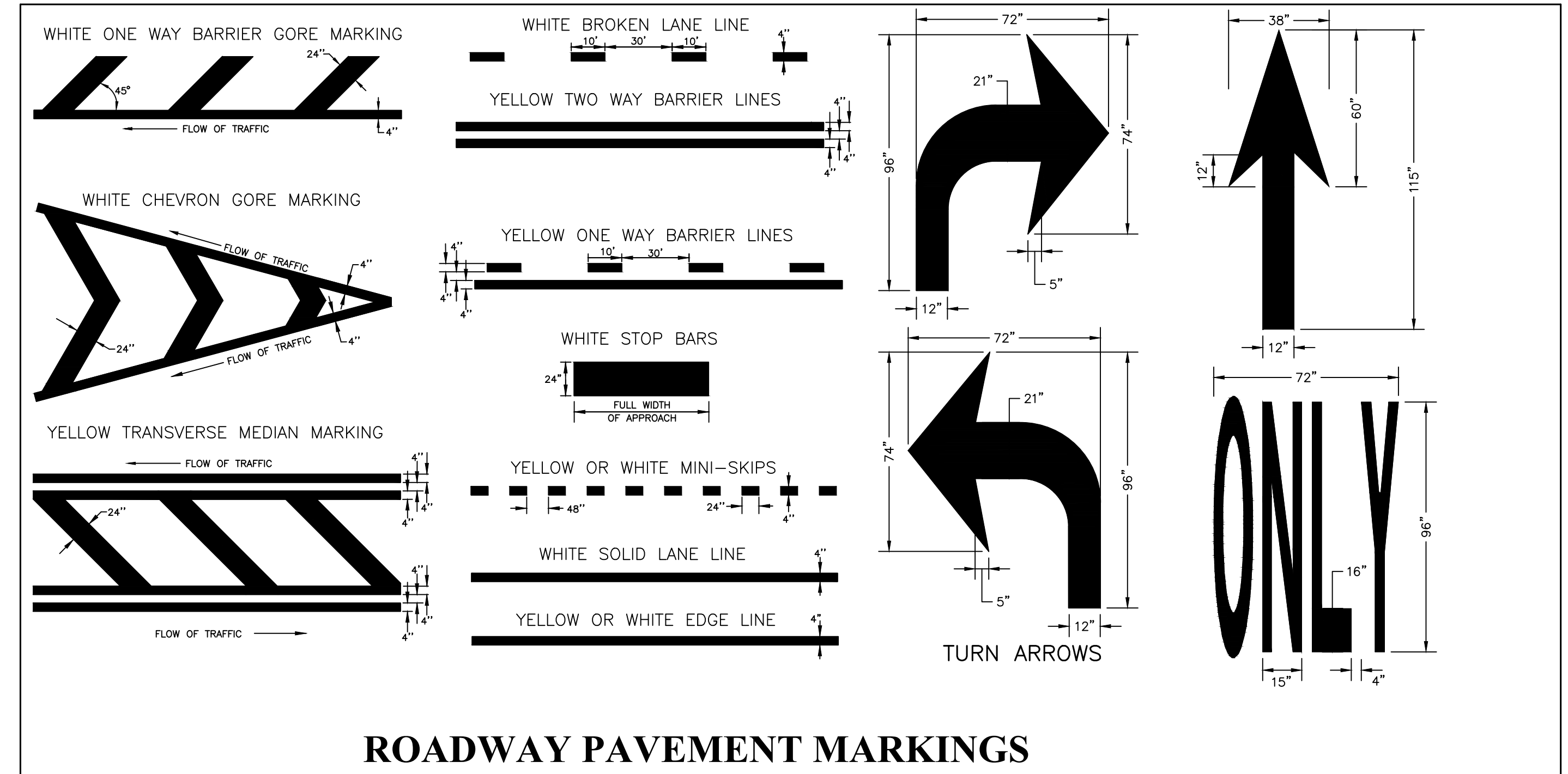
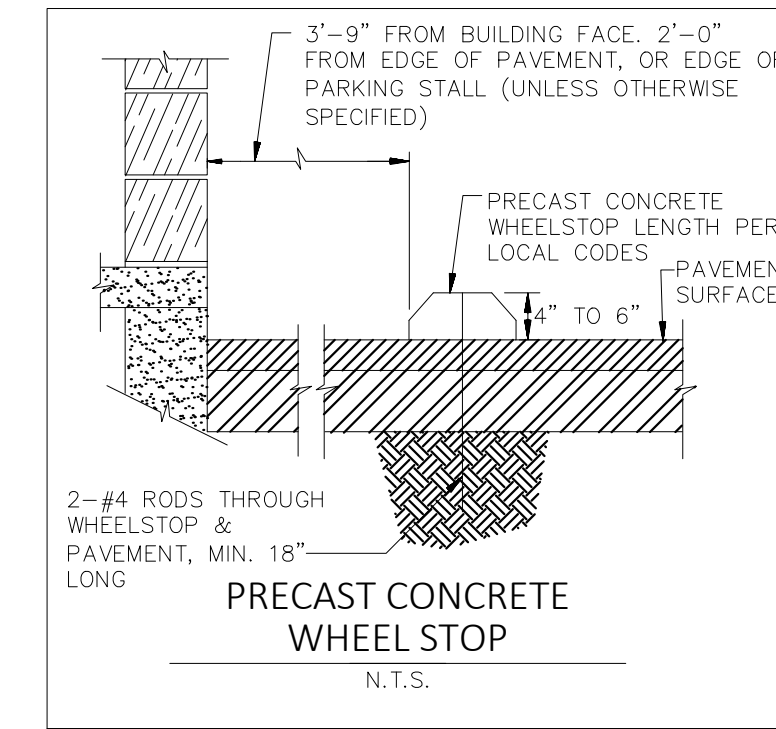
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### Dimensions for Blocks behind Bends – Horizontal Thrust

		1/4 (90°) Bend	1/8 (45°) Bend	1/16 (22 1/2°) Bend	1/32 (11 1/4°) Bend
6"	J	1' 0"	1' 0"	1' 0"	1' 0"
	K	2' 0"	1' 0"	1' 0"	1' 0"
	L	2' 0"	2' 0"	1' 0"	1' 0"
	M	1' 0"	1' 0"	1' 0"	1' 0"
<b>Volume (cu yd)</b>		<b>0.07</b>	<b>0.04</b>	<b>0.03</b>	<b>0.03</b>
8"	J	1' 0"	1' 0"	1' 0"	1' 0"
	K	2' 6"	1' 6"	1' 0"	1' 0"
	L	3' 0"	2' 6"	2' 0"	1' 0"
	M	1' 0"	1' 0"	1' 0"	1' 0"
<b>Volume (cu yd)</b>		<b>0.13</b>	<b>0.07</b>	<b>0.05</b>	<b>0.03</b>
12"	J	1' 3"	1' 3"	1' 3"	1' 3"
	K	3' 6"	2' 6"	2' 0"	1' 0"
	L	3' 0"	3' 0"	2' 0"	2' 0"
	M	1' 0"	1' 0"	1' 0"	1' 0"
<b>Volume (cu yd)</b>		<b>0.23</b>	<b>0.12</b>	<b>0.11</b>	<b>0.07</b>
16"	J	1' 6"	1' 6"	1' 6"	1' 6"
	K	4' 6"	3' 0"	2' 6"	1' 6"
	L	5' 0"	4' 0"	3' 0"	2' 6"
	M	1' 3"	1' 3"	1' 3"	1' 6"
<b>Volume (cu yd)</b>		<b>0.58</b>	<b>0.35</b>	<b>0.23</b>	<b>0.16</b>
24"	J	2' 0"	2' 0"	2' 0"	2' 0"
	K	7' 0"	4' 6"	3' 5"	2' 6"
	L	7' 0"	6' 0"	4' 0"	3' 0"
	M	1' 6"	1' 6"	1' 6"	1' 6"
<b>Volume (cu yd)</b>		<b>1.58</b>	<b>1.0</b>	<b>0.58</b>	<b>0.45</b>



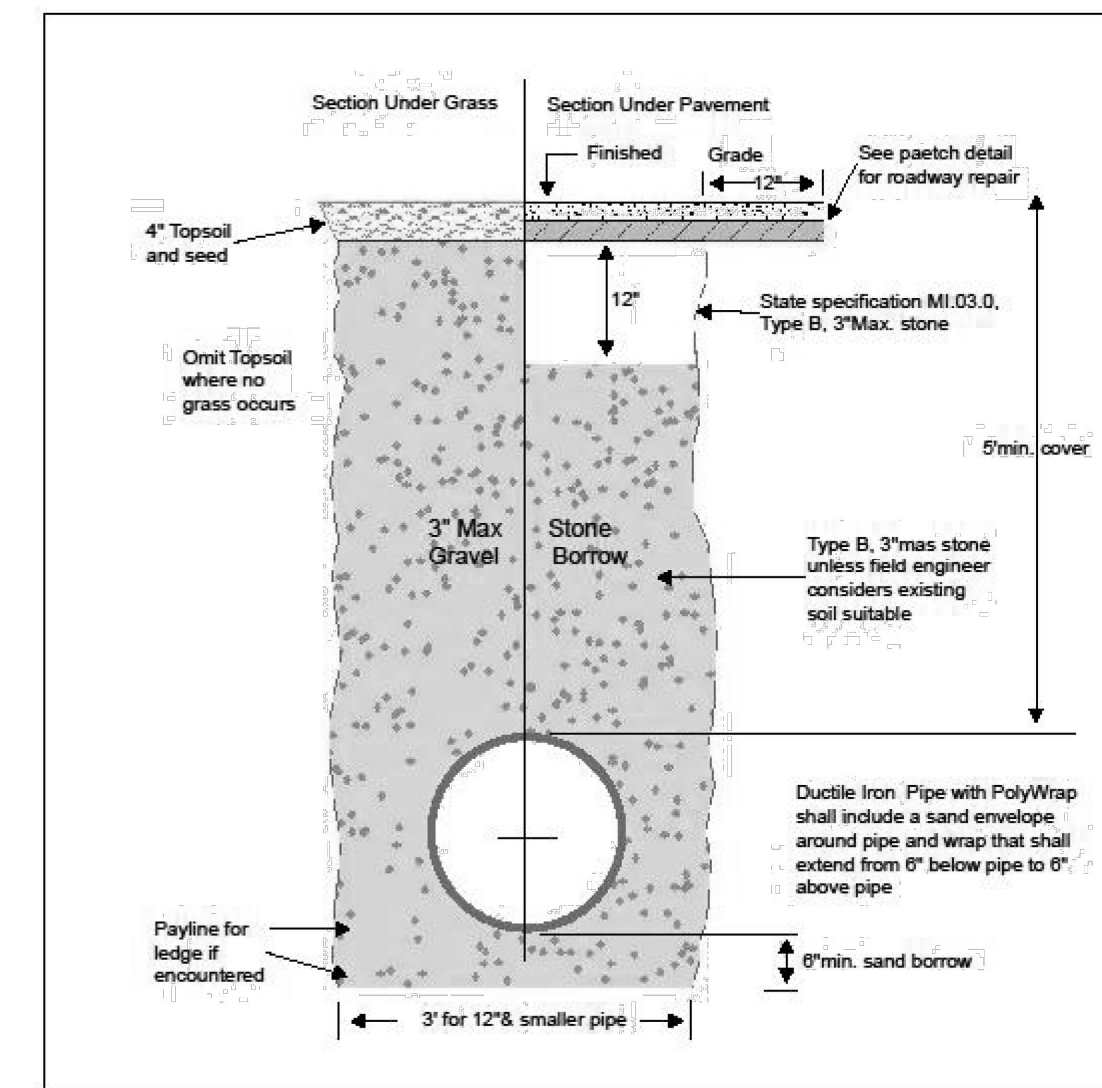
DEEP SUMP CATCH BASIN adapted from the University of New Hampshire



### ROADWAY PAVEMENT MARKINGS

### Dimensions for Blocks behind Tees and Plugs – Horizontal Thrust

	E	F	G	H	Volume (CU. YD.)
6"	1' 0"	1' 6"	2' 0"	1' 0"	0.06
8"	1' 0"	2' 0"	2' 6"	1' 0"	0.09
12"	1' 0"	3' 0"	3' 6"	1' 3"	0.20
16"	1' 3"	4' 0"	4' 0"	1' 6"	0.40
24"	1' 6"	7' 0"	5' 0"	2' 0"	1.2



**Trench Detail Typical**

City of Worcester  
DPW&P  
Water Operations

Rev. No.	By	Date
1	M.F.J.	1/24/79
2	A.V.C.	4/13/93
3	A.C.M.	4/1/05

Drawn By: R.H.  
Checked By: M.E.D.  
Last update 2/3/2020

Detail W-5

Worcester 3/1/2023

3-40

Worcester 3/1/2023

3-39

Worcester 3/1/2023

3-8

No.	REVISIONS	DATE	BY

**Kimley >>> Horn**

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LICENSED PROFESSIONAL

WILLIAM BOLLY  
CIVIL ENGINEER  
No. 5028

DATE: 04/12/2024

KHA PROJECT	11296000
DATE	04/12/2024
SCALE	AS SHOWN
DESIGNED BY	SP
DRAWN BY	EIW
CHECKED BY	DDL

## CONSTRUCTION DETAILS

## PROJECT EUROPA PREPARED FOR PURE DEVELOPMENT

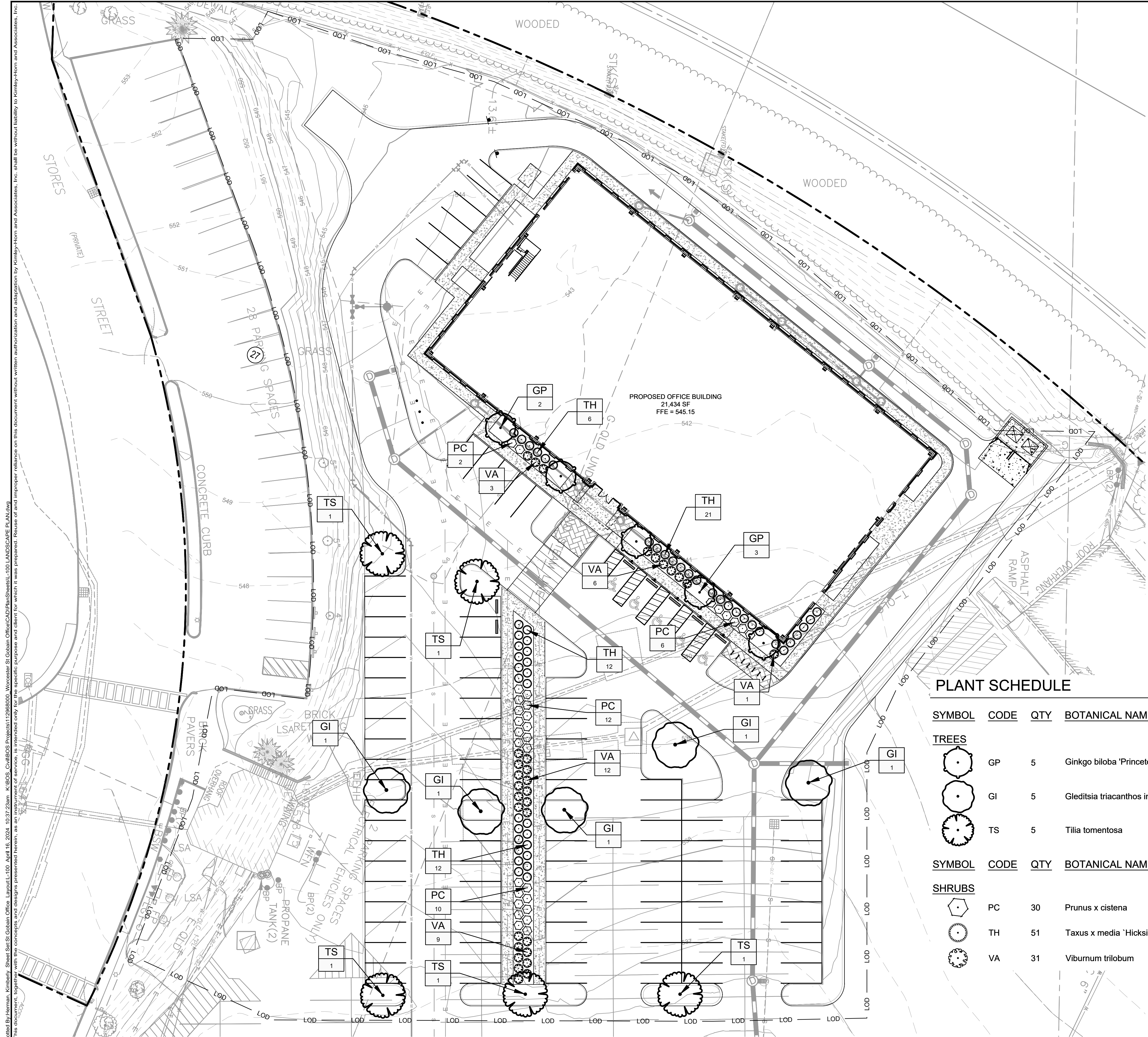
SHEET NUMBER  
**C-701**

CITY OF WORCESTER MASSACHUSETTS









**LEGEND**

--- PROPERTY LINE

**GRAPHIC SCALE IN FEET**

0 10 20 40

**NORTH**

INTERIOR LANDSCAPING			Article 4 Section 7 Note 5(a)	
Required	Provided			
96 Parking Spots	10 Trees			
1 Tree per 10 Parking spots	10 Trees			

**PLANT SCHEDULE**

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
<b>TREES</b>						
	GP	5	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Maidenhair Tree	3" Cal. DBH	B&B
	GI	5	Gleditsia triacanthos inermis	Thornless Honey Locust	3" Cal. DBH	B&B
	TS	5	Tilia tomentosa	Silver Linden	3" Cal. DBH	B&B
<b>SHRUBS</b>						
	PC	30	Prunus x cistena	Purple Leaf Sand Cherry	24" - 36" ht.	5 gal.
	TH	51	Taxus x media 'Hicksii'	Hicks Anglo-Japanese Yew	24" - 36" ht.	5 gal.
	VA	31	Viburnum trilobum	American Cranberrybush	24" - 36" ht.	5 gal.

Plotted By: Herman, Kimberly Sheet: St Gobain Office Layout: L-100 April 16, 2024 10:37:23am K:\BOS CIVIL\BOS Projects\112968000 Worcester St Gobain Office\CAD\PlanSheet\L-100 LANDSCAPE PLAN.dwg  
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NO.	REVISIONS	DATE	BY

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DATE: 04/12/2024

KHA PROJECT	112968000
DATE	04/12/2024
SCALE	AS SHOWN
DESIGNED BY:	KCH
DRAWN BY:	KCH
CHECKED BY:	KVH

**LANDSCAPE PLAN**

**PROJECT EUROPA**  
 PREPARED FOR  
 PURE DEVELOPMENT

CITY OF WORCESTER MASSACHUSETTS



