PRELIMINARY & FINAL MAJOR SITE PLANS

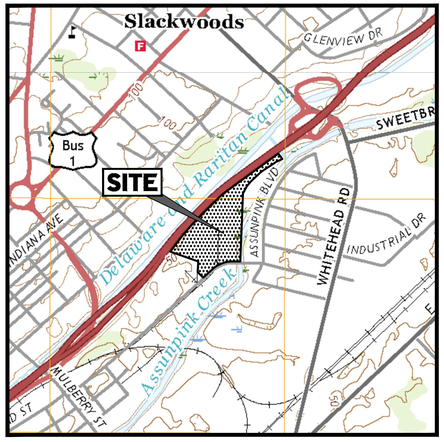
FOR

LAWRENCE LOGISTICS CENTER

PROPOSED

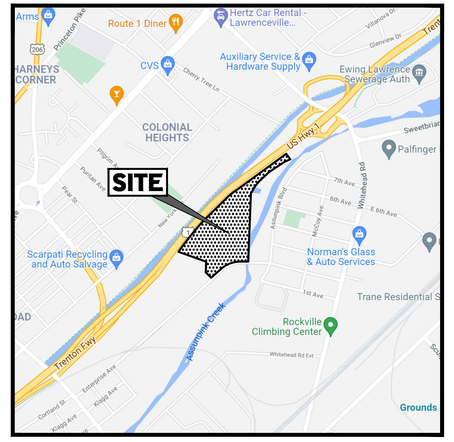
WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER

40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY



USGS MAP

SCALE: 1" = 1,000'
SOURCE: U.S. GEOLOGICAL SURVEY MAPS



KEY MAP

SCALE: 1" = 1,000'
SOURCE: GOOGLE MAPS

PROPERTY OWNERS LIST (TOWNSHIP OF LAWRENCE)

WITHIN 200' RADIUS AS CERTIFIED BY BRENDA KRAEMER, P.E., DATED JANUARY 19, 2022

BLOCK	LOT	OWNER
504	3	SATURN CHEMICALS INC 1 IRWIN PLACE LAWRENCEVILLE, NJ 08648
504	4	NORFOLK SOUTHERN (TAXATION DEPT) 3 COMMERCIAL PLACE, BOX 209 NORFOLK, VA 203510
504	5	DEPARTMENT OF ENVIRONMENTAL PROTECTION JOHN FITCH PLAZA TRENTON, NJ 08625
504	6	HTI SERVICES, LLC 1501 NEW YORK AVENUE LAWRENCEVILLE, NJ 08648

ALSO TO BE NOTIFIED:

CORPORATE SECRETARY
EWING-LAWRENCE SEWERAGE AUTHORITY
600 WHITEHEAD ROAD
LAWRENCEVILLE, NJ 08648

NJ AMERICAN WATER
ATTN: DONNA SHORT
1025 LAUREAL OAK ROAD
VOORHEES, NJ 08043

CORPORATE SECRETARY
TRENTON WATER WORKS
PO BOX 528
TRENTON, NJ 08604

AQUA WATER COMPANY
ATTN: JAMES BARRATO
2875 EHAL ROAD
EHAL, NJ 08081

RCN CORPORATION
105 CARNEGIE CENTER
PRINCETON, NJ 08540

MERCER COUNTY PLANNING BOARD
640 SOUTH BROAD STREET
PO BOX 8068
TRENTON, NJ 08650-8068

SUN PIP LINE COMPANY
ATTN: R-O-W DEPARTMENT
1801 MARKET STREET
28TH FLOOR
PHILADELPHIA, PA 19103-1699

SUNOCO PIPE LINE, L.P.
RIGHT-OF-WAY DEPARTMENT
MONTELLO COMPLEX
525 FRITZTOWN ROAD
SINKING SPRING, PA 19608

CORPORATE SECRETARY
PUBLIC SERVICE ELECTRIC & GAS COMPANY
80 PARK PLAZA, 4B
NEWARK, NJ 07101

ELIZABETHTOWN GAS COMPANY
ONE ELIZABETHTOWN PLAZA
THIRD FLOOR EAST
UNION, NJ 07083-1975

CORPORATE SECRETARY
VERIZON
540 BROAD STREET
NEWARK, NJ 07101

GENERAL MANAGER
CONOCAP CUDAHY/DON
1500 PROSPECT STREET
TRENTON, NJ 08618

CORPORATE SECRETARY
AT&T
L-4/T&T WAY
BEDMINSTER, NJ 07921

CORPORATE SECRETARY
TRANSCONTINENTAL GAS PIPE LINE CORPORATION
2800 POST OAK BLVD
HOUSTON, TX 77056

COMMISSIONER
NJ DEPARTMENT OF TRANSPORTATION
1035 PARKWAY AVENUE, CN600
TRENTON, NJ 08625

PROPERTY OWNERS LIST (CITY OF TRENTON)

WITHIN 200' RADIUS AS CERTIFIED BY CAMILLE CROMARTIE DATED JULY 23, 2021

BLOCK	LOT	OWNER
23201	3	COMMUNITY EDUC. CENTERS, INC C/O DUCH. PO BOX 80617 INDIANAPOLIS, IN 46280
23201	4	MLB PROPERTIES, LLC 20 DOGWOOD DRIVE WHITEHOUSE STATION, NJ 08889
23201	1	40 ENTERPRISE LLC 51 DEFOREST AVENUE SUMMIT, NJ 07901
23202	1	CITY OF TRENTON 319 E STATE STREET TRENTON, NJ 08608
23203	1	CITY OF TRENTON 319 E STATE STREET TRENTON, NJ 08608

PROPERTY OWNERS LIST (HAMILTON TOWNSHIP)

WITHIN 200' RADIUS AS CERTIFIED BY SAMANTHA BROWN DATED JANUARY 24, 2022

BLOCK	LOT	OWNER
1571	1	STATE OF NEW JERSEY DEPT OF ENV. PROTECTION JOHN FITCH PLAZA TRENTON, NJ 08625
1571	2	40 ENTERPRISE LLC 51 DEFOREST AVENUE SUMMIT, NJ 07901
1572	1	PRESUMA, JOEY 608 ASSUNPINK BLVD HAMILTON, NJ 08619
1572	2	MCCOY, BERTHA 606 ASSUNPINK BLVD HAMILTON, NJ 08619
1572	3	PARASHER, HIRDESH & RATNA 608 ASSUNPINK BLVD HAMILTON, NJ 08619
1572	10	GHEYA, CHARBEL 92 SEVENTH AVENUE HAMILTON, NJ 08619
1574	1	HANUSSAK, JOSEPH G JR & EMRICH WENDY 101 SEVENTH AVENUE HAMILTON, NJ 08619
1574	17	SODEN, REBECCA 106 SIXTH AVENUE HAMILTON, NJ 08619
1574	21	SITKO, EDWARD JR 506 ASSUNPINK BLVD HAMILTON, NJ 08619
1574	22	KHANWALKAR 518 ASSUNPINK BLVD HAMILTON, NJ 08619
1574	24	MONDREAU, LAURA 115 SEVENTH AVENUE HAMILTON, NJ 08619
1576	1	MASTROMARINO LOU ANN ET VIR 133 SIXTH AVENUE HAMILTON, NJ 08619
1576	2	BLAIN, JEAN Y & ERLANDE O 143 SIXTH AVENUE HAMILTON, NJ 08619
1576	22	KONNOL JOSEPH E & DANUTA A 124 FIFTH AVENUE HAMILTON, NJ 08619
1576	23	CRUZ, JESSICA & AGUERO JOHNNY 404 ASSUNPINK BLVD HAMILTON, NJ 08619
1576	24	GRAY, PATRICIA S 414 ASSUNPINK BLVD HAMILTON, NJ 08619
1578	13	TWP OF HAMILTON 2090 GREENWOOD AVENUE HAMILTON, NJ 08609
1578	34	TWP OF HAMILTON 2090 GREENWOOD AVENUE HAMILTON, NJ 08609
1578	35	VILLAGUERTE ALEXANDER F & MARIA G 302 ASSUNPINK BLVD HAMILTON, NJ 08619
1578	37	NAHIRNYY MYKHAYLO & TSELIKAVA HANNA 316 ASSUNPINK BLVD HAMILTON, NJ 08619
1578	38	OLACVO, RABANALES FE R, REYES AM 322 ASSUNPINK BLVD HAMILTON, NJ 08619
1582	4	GIBSON SHANE 115 FOURTH AVENUE HAMILTON, NJ 08619
1582	22	ALVAREZ RANDY & MISKOLCZI AGOTA 200 CARNEGIE AVENUE HAMILTON, NJ 08619
1582	25	ALVAREZ DARLENE 128 THIRD AVENUE HAMILTON, NJ 08619
1582	26	CIMOCH CHESTER ETUX 220 ASSUNPINK BLVD HAMILTON, NJ 08619
1584	1	ROMYACK THOMAS DIR & ROSE MARIE 115 THIRD AVENUE HAMILTON, NJ 08619
1584	15	COLEMAN THOMAS 12 ASSUPINK BLVD HAMILTON, NJ 08619
1584	16.01	TWP OF HAMILTON 2090 GREENWOOD AVENUE HAMILTON, NJ 08619
1584	16.02	GIEGER SUZANNE K 117 THIRD AVENUE HAMILTON, NJ 08619
1586	1	FRANCO ORLANDO J 108 SECOND AVENUE HAMILTON, NJ 08619
1586	4	ALVAREZ KIDD R JR 110 FIRST AVENUE HAMILTON, NJ 08619
1586	5	BOKA ANNA MARIA & JOSIF 106 FIRST AVENUE HAMILTON, NJ 08619
1586	6	LONCOSKY JACKIE B & BEATRICE D 12 ASSUPINK BLVD HAMILTON, NJ 08619
1586	7	PIATEK GREGZEGRZ 54 PERRY DRIVE EWING, NJ 08628
1586	8	MARGA LUIS G 26 ASSUPINK BLVD HAMILTON, NJ 08619
1632	1	HAMILTON INDUSTRIAL DEVELOPMENTN, LLC 1333 BRUNSWICK PIKE, SUITE 200 LAWRENCEVILLE, NJ 08648

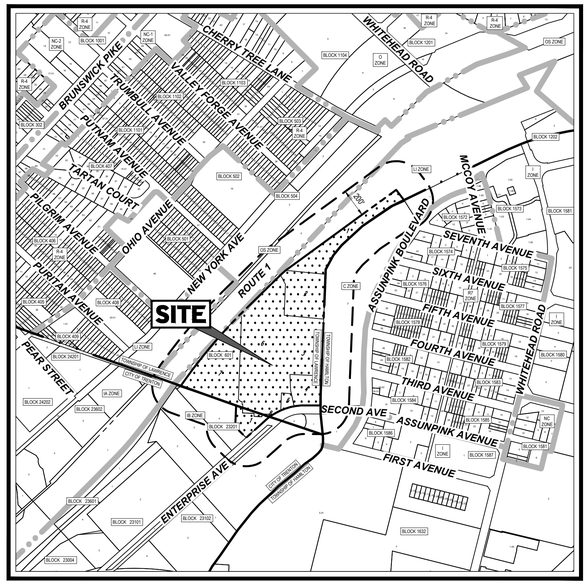
ALSO TO BE NOTIFIED:

PSE&G
GAS & ELECTRIC LINES
80 PARK PLAZA, T6B
NEWARK, NJ 7102

PSE&G Co.
DONNA CONSIGLIO
4140 QUAKERBRIDGE ROAD
LAWRENCE, NJ 08648

TRENTON WATER WORKS
333 CORTLAND STREET, #2
HAMILTON, NJ 08638

AQUA NJ, INC.
10 BLACK FOREST ROAD
HAMILTON, NJ 08691



TAX MAP

SCALE: 1" = 500'
SOURCE: MERCER COUNTY TAX MAPS



AERIAL MAP

SCALE: 1" = 500'
SOURCE: NJGIN INFORMATION WAREHOUSE

PREPARED BY

BOHLER

DRAWING SHEET INDEX

SHEET TITLE	NUMBER
COVER SHEET	C-101
NOTES AND REFERENCES SHEET	C-102
DEMOLITION PLAN 'A' - 'D'	C-201 - C-204
OVERALL SITE LAYOUT PLAN	C-300
SITE LAYOUT PLAN 'A' - 'D'	C-301 - C-304
GRADING PLAN 'A' - 'D'	C-401 - C-404
DRAINAGE PLAN 'A' - 'D'	C-405 - C-408
UTILITIES PLAN 'A' - 'D'	C-501 - C-504
OVERALL LANDSCAPE PLAN	C-700
LANDSCAPE PLAN 'A' - 'D'	C-701 - C-704
LANDSCAPE NOTES & DETAILS	C-705
OVERALL LIGHTING PLAN	C-706
LIGHTING PLAN 'A' - 'D'	C-707 - C-710
DETAIL SHEET	C-901 - C-906
ALTA/NSPS LAND TITLE SURVEY (BY CONTROL POINT ASSOCIATES, INC.)	1 OF 1

APPROVAL BLOCK

TOWNSHIP OF LAWRENCE PLANNING BOARD APPROVAL
APPROVED BY THE PLANNING BOARD OF THE TOWNSHIP OF LAWRENCE, NJ.

CHAIR	DATE
SECRETARY	DATE
ADMINISTRATIVE OFFICER	DATE
MUNICIPAL ENGINEER	DATE

© 2020 C:\2021\029\DRAWINGS\CURRENT DRAWINGS\SITE PLAN PACKAGE\J201029-CDS-0B----LAYOUT C-101 COVER
AXD

BOHLER

SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

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REVISIONS

REV	DATE	COMMENT	DRAWN BY / CHECKED BY

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ISSUED FOR MUNICIPAL & AGENCY REVIEW & APPROVAL

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: J201029
DRAWN BY: RND/ATK
CHECKED BY: AS/BAB
DATE: 02/01/2022
CAD I.D.: J201029-CDS-0B

PROJECT:
PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

BOHLER
BOHLER ENGINEERING NJ, LLC
30 INDEPENDENCE BLVD., SUITE 200
WARREN, NJ 07059
Phone: (908) 668-8300
Fax: (908) 754-4401
www.BohlerEngineering.com
NJ CERT. OF AUTHORIZATION NO. 24GA28161700 & MH000122

B.A. BOHLER
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 47421
NEW YORK LICENSE No. 088514-1
PENNSYLVANIA LICENSE No. 077366
CONNECTICUT LICENSE No. 26039
DELAWARE LICENSE No. 17111
OHIO LICENSE No. 78297

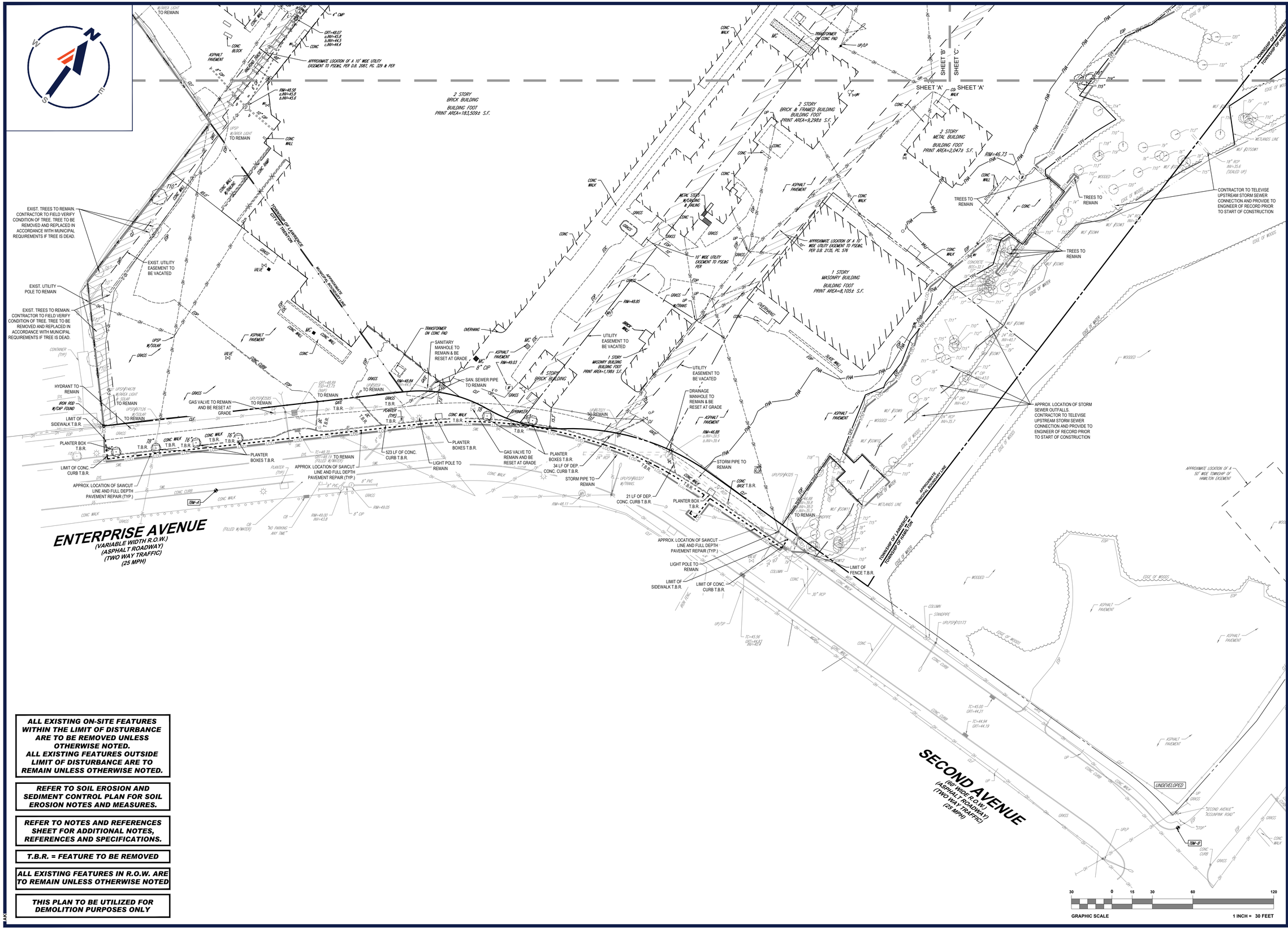
SHEET TITLE:
COVER SHEET

SHEET NUMBER:
C-101

ORG. DATE - 02/01/2022

GENERAL NOTES (Rev. 2/2021)

1. THESE PLANS ARE SOLELY BASED ON INFORMATION THE OWNER AND OTHERS PROVIDED TO BOHLER ENGINEERING, NJ, LLC (HEREIN "BOHLER") PRIOR TO THE DATE ON WHICH THE ENGINEER OF RECORD AND BOHLER PREPARED THESE PLANS. THE CONTRACTOR MUST FIELD VERIFY ALL EXISTING CONDITIONS AND IMMEDIATELY NOTIFY BOHLER , IN WRITING, IF ANY ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THESE PLANS, OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER SITE FEATURES.
2. THE CONTRACTOR MUST STRICTLY COMPLY WITH THESE NOTES AND ALL SPECIFICATIONS/REPORTS CONTAINED HEREIN. THE CONTRACTOR MUST ENSURE THAT ALL SUBCONTRACTORS FULLY AND COMPLETELY CONFORM TO AND COMPLY WITH THESE REQUIREMENTS, THESE NOTES, AND THE REQUIREMENTS ARTICULATED IN THE NOTES CONTAINED IN ALL THE OTHER DRAWINGS THAT COMPRISE THE PLAN SET OF DRAWINGS. ADDITIONAL NOTES AND SPECIFIC PLAN NOTES MAY BE FOUND ON THE INDIVIDUAL PLANS. THESE GENERAL NOTES APPLY TO THIS ENTIRE DOCUMENT PACKAGE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CONSTRUCTION CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE, PRIOR TO THE INITIATION AND COMMENCEMENT OF CONSTRUCTION.
3. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST CONFIRM WITH THE ENGINEER OF RECORD AND BOHLER THAT THE LATEST EDITION OF THE DOCUMENTS AND/OR REPORTS REFERENCED WITHIN THE PLAN REFERENCES ARE BEING USED FOR CONSTRUCTION. THIS IS THE CONTRACTOR'S SOLE AND COMPLETE RESPONSIBILITY.
4. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION IS TO BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE COPY OF ALL PERMITS AND APPROVALS AND CONFIRMED WITH THE PERMITTING AUTHORITIES THAT ALL NECESSARY AND REQUIRED PERMITS HAVE BEEN OBTAINED. THE CONTRACTOR MUST HAVE COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES.
5. THE CONTRACTOR IS RESPONSIBLE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS/REPORTS AND CONDITIONS OF APPROVAL, AND ALL APPLICABLE REQUIREMENTS, RULES, REGULATIONS, STATUTORY REQUIREMENTS, CODES, LAWS AND STANDARDS OF ALL GOVERNMENTAL ENTITIES WITH JURISDICTION OVER THIS PROJECT, AND ALL PROVISIONS/NOTES/REQUIREMENTS OF THE CONSTRUCTION CONTRACT WITH THE OWNER/DEVELOPER INCLUDING ALL EXHIBITS, ATTACHMENTS AND ADDENDA TO SAME.
6. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST COORDINATE THE BUILDING LAYOUT BY CAREFULLY REVIEWING THE MOST CURRENT ARCHITECTURAL, CIVIL AND STRUCTURAL CONSTRUCTION DOCUMENTS (INCLUDING, BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLANS, WHERE APPLICABLE). THE CONTRACTOR MUST IMMEDIATELY NOTIFY OWNER, ARCHITECT AND ENGINEER OF RECORD AND BOHLER, IN WRITING, OF ANY DISCREPANCIES OR AMBIGUITIES WHICH EXIST BETWEEN THESE PLANS AND ANY OTHER PLANS THAT COMPRISE THE CONSTRUCTION DOCUMENTS.
7. CONTRACTOR MUST REFER TO AND ENSURE COMPLIANCE WITH THE APPROVED ARCHITECTURAL/BUILDING PLANS OF RECORD FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, EXACT BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY LOCATIONS.
8. THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THESE PLANS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR MUST IMMEDIATELY NOTIFY ENGINEER OF RECORD AND BOHLER, IN WRITING, IF ANY CONFLICTS, DISCREPANCIES, OR AMBIGUITIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR WORK WHICH HAS TO BE RE-DONE OR REPAIRED DUE TO DIMENSIONS, MEASUREMENTS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO BOTH (A) THE CONTRACTOR'S ENGINEER OF RECORD AND BOHLER WRITTEN NOTIFICATION OF SAME AND (B) ENGINEER OF RECORD AND BOHLER, THEREAFTER, PROVIDING THE CONTRACTOR WITH WRITTEN AUTHORIZATION TO PROCEED WITH SUCH ADDITIONAL WORK.
9. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND MEASUREMENTS INCLUDED ON DESIGN DOCUMENTS HEREIN AND MUST NOT SCALE OFF THE DRAWINGS DUE TO POTENTIAL PRINTING INACCURACIES. ALL DIMENSIONS AND MEASUREMENTS ARE TO BE CHECKED AND CONFIRMED BY THE GENERAL CONTRACTOR, SUBCONTRACTORS AND FABRICATORS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE PLACEMENT OF SITE WORK, SITE PLAN DRAWINGS ARE NOT INTENDED AS SURVEY DOCUMENTS. DIMENSIONS SUPERSEDE GRAPHICAL REPRESENTATIONS. THE CONTRACTOR MUST MAKE CONTRACTOR'S OWN MEASUREMENTS FOR LAYOUT OF IMPROVEMENTS.
10. THE OWNER AND CONTRACTOR MUST BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
11. WHEN INCLUDED AS ONE OF THE REFERENCE DOCUMENTS, THE GEOTECHNICAL REPORT, SPECIFICATIONS AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND, IN CASE OF CONFLICT, DISCREPANCY OR AMBIGUITY, THE MORE STRINGENT REQUIREMENTS AND/OR RECOMMENDATIONS CONTAINED IN: (A) THE PLANS; AND (B) THE GEOTECHNICAL REPORT AND RECOMMENDATIONS, MUST TAKE PRECEDENCE AND GOVERN ON THE PLANS. THE CONTRACTOR MUST NOTIFY THE ENGINEER OF RECORD AND BOHLER, IN WRITING, OF ANY SUCH CONFLICT, DISCREPANCY OR AMBIGUITY BETWEEN THE GEOTECHNICAL REPORT AND PLANS AND SPECIFICATIONS. IF A GEOTECHNICAL REPORT WAS NOT CREATED, THEN THE CONTRACTOR MUST FOLLOW AND COMPLY WITH ALL OF THE REQUIREMENTS OF ANY AND ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE SPECIFICATIONS WHICH HAVE JURISDICTION OVER THIS PROJECT.
12. ENGINEER OF RECORD AND BOHLER ARE NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, HAS NO LIABILITY FOR ANY HAZARDOUS MATERIALS, HAZARDOUS SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY.
13. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND CONSTRUCTING ANY AND ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PRECAUTIONS TO BE TAKEN TO ASSURE THE STABILITY OF ADJACENT, NEARBY AND CONTIGUOUS STRUCTURES AND PROPERTIES. ALL OF THIS WORK IS TO BE PERFORMED AT CONTRACTOR'S SOLE COST AND EXPENSE.
14. THE CONTRACTOR MUST EXERCISE EXTREME CAUTION WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. WHICH ARE TO REMAIN IN SERVICE AS PART OF THE FINAL CONDITION. THE CONTRACTOR MUST ASSUME ALL RESPONSIBILITY AND LIABILITY FOR TAKING ALL APPROPRIATE MEASURES REQUIRED TO ENSURE THE STRUCTURAL STABILITY OF SIDEWALKS AND PAVEMENT, UTILITIES, BUILDINGS, AND INFRASTRUCTURE WHICH ARE TO REMAIN, AND TO PROVIDE A SAFE WORK AREA FOR THIRD PARTIES, PEDESTRIANS AND ANYONE INVOLVED WITH THE PROJECT.
15. DEBRIS MUST NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION AND CONSTRUCTION WASTES, UNSUITABLE EXCAVATED MATERIAL, EXCESS SOIL AND DEBRIS (SOLID WASTE) MUST BE DISPOSED OF IN ACCORDANCE WITH THE REGULATIONS OF ANY AND ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES WHICH HAVE JURISDICTION OVER THIS PROJECT OR OVER THE CONTRACTOR.
16. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN RECORDS TO DEMONSTRATE PROPER AND FULLY COMPLIANT DISPOSAL ACTIVITIES, TO BE PROMPTLY PROVIDED TO THE OWNER UPON REQUEST.
17. THE CONTRACTOR MUST REPAIR, AT CONTRACTOR'S SOLE COST, ALL DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, ALL DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY MUST RESTORE SUCH CONSTRUCTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE CONDITIONS PRIOR TO COMMENCING WORK AND IN ACCORDANCE WITH APPLICABLE CODES, LAWS, RULES, REGULATIONS, STATUTORY REQUIREMENTS AND STATUTES. THE CONTRACTOR MUST BEAR ALL COSTS ASSOCIATED WITH SAME. THE CONTRACTOR MUST, PROMPTLY, DOCUMENT ALL EXISTING DAMAGE AND NOTIFY, IN WRITING, THE OWNER AND THE CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.
18. THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR AND HAVE NO CONTRACTUAL, LEGAL OR OTHER RESPONSIBILITIES FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME; THE ENGINEER OF RECORD AND BOHLER HAVE NO CONTROL OVER AND DO NOT PERFORM OR TO BE RESPONSIBLE FOR JOB SITE SAFETY, SAME BEING WHOLLY OUTSIDE OF ENGINEER OF RECORD'S AND BOHLER SERVICES AS RELATED TO THE PROJECT. THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE TO IDENTIFY OR REPORT ANY JOB SITE SAFETY ISSUES OR ANY JOB SITE CONDITIONS, AT ANY TIME.
19. THE CONTRACTOR MUST IMMEDIATELY IDENTIFY IN WRITING, TO THE ENGINEER OF RECORD AND BOHLER , ANY DISCREPANCIES THAT MAY OR COULD AFFECT THE PUBLIC SAFETY; HEALTH OR GENERAL WELFARE, OR PROJECT COST. IF THE CONTRACTOR PROCEEDS WITH CONSTRUCTION WITHOUT PROVIDING PROPER WRITTEN NOTIFICATION AS DESCRIBED ABOVE, IT WILL BE AT THE CONTRACTOR'S OWN RISK AND, FURTHER, THE CONTRACTOR MUST INDEMNIFY, DEFEND AND HOLD HARMLESS THE ENGINEER OF RECORD AND BOHLER FOR ANY AND ALL DAMAGES, COSTS, INJURIES, ATTORNEY'S FEES AND THE LIKE WHICH RESULT FROM OR ARE IN ANY WAY RELATED TO SAME INCLUDING, BUT NOT LIMITED TO, ANY THIRD PARTY AND FIRST PARTY CLAIMS.
20. THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR ANY INJURY OR DAMAGES RESULTING FROM THE CONTRACTOR'S FAILURE TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH THE APPROVED PLANS, AND CURRENT CODES, RULES, STATUTES AND THE LIKE. IF THE CONTRACTOR AND/OR OWNER FAIL TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH APPROVED PLANS, RULES, STATUTES, CODES AND THE LIKE, THE CONTRACTOR AND/OR OWNER AGREE TO AND MUST INDEMNIFY, SEPARATELY AND SEVERALLY INDEMNIFY, DEFEND AND HOLD THE ENGINEER OF RECORD AND BOHLER HARMLESS FOR AND FROM ALL INJURIES, CLAIMS AND DAMAGES THAT ENGINEER AND BOHLER SUFFER AND ANY AND ALL COSTS THAT ENGINEER AND BOHLER INCUR AS RELATED TO SAME.
21. ALL CONTRACTORS MUST CARRY AT LEAST THE MINIMUM AMOUNT OF THE SPECIFIED AND COMMERCIALLY REASONABLE STATUTORY WORKER'S COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND COMMERCIAL GENERAL LIABILITY INSURANCE (CGL) INCLUDING ALSO ALL UMBRELLA COVERAGE FOR ALL SUBCONTRACTORS AND SUBCONSULTANTS PERFORMING WORK ON THE PROJECT. THE PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES AND IF ITS SUBCONTRACTORS AND SUBCONSULTANTS AS ADDITIONAL NAMED INSUREDS AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE (DEFEND, IF APPLICABLE) AND HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED AND AGREED TO BY THE CONTRACTOR HEREIN. ALL CONTRACTORS MUST FURNISH BOHLER WITH CERTIFICATIONS OF INSURANCE OR CERTIFICATES OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE COVERAGES PRIOR TO COMMENCING ANY WORK. INSURANCE COVERAGE AS REQUIRED OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION AND FOR TWO YEARS AFTER THE COMPLETION OF CONSTRUCTION AND AFTER ALL PERMITS ARE ISSUED, WHICHEVER DATE IS LATER. IN ADDITION, ALL CONTRACTORS AGREE THAT THEY WILL, TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, INDEMNIFY, DEFEND AND HOLD HARMLESS THE OWNER, ENGINEER OF RECORD AND BOHLER AND THEIR OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS FROM AND AGAINST ANY DAMAGES, INJURIES, CLAIMS, ACTIONS, PENALTIES, EXPENSES, PUNITIVE DAMAGES, TORT DAMAGES, STATUTORY CLAIMS, STATUTORY CAUSES OF ACTION, LOSSES, CAUSES OF ACTION, LIABILITIES OR COSTS, INCLUDING, BUT NOT LIMITED TO, REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH OR TO THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTOR(S), ALL CLAIMS BY THIRD PARTIES AND ALL CLAIMS RELATED TO THE PROJECT. THE CONTRACTOR MUST NOTIFY ENGINEER, IN WRITING, AT LEAST THIRTY (30) DAYS PRIOR TO ANY TERMINATION, SUSPENSION OR CHANGE OF ITS INSURANCE HEREUNDER.
22. THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES OR PROCEDURES, GENERALLY OR FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES FOR COMPLETION OF THE WORK DEPICTED BOTH ON THESE PLANS, AND FOR ANY CONFLICTS IN SCOPE AND RESPONSIBILITY BETWEEN THE PLANS AND THE CONTRACT WITH THE OWNER.
23. NEITHER THE PROFESSIONAL ACTIVITIES OF BOHLER, NOR THE PRESENCE OF BOHLER OR ITS EMPLOYEES AND SUBCONSULTANTS AT A CONSTRUCTION/PROJECT SITE (HEREIN "BOHLER PARTIES"), RELIEVES OR WILL RELIEVE THE CONTRACTOR OF ANY OBLIGATIONS, DUTIES AND RESPONSIBILITIES ASSIGNED TO IT IN THE CONTRACT DOCUMENTS AND COMPLIANCE WITH ALL HEALTH AND SAFETY PROGRAMS OR PROCEDURES. BOHLER PARTIES HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER (OR ANY RESPONSIBILITY FOR) ANY CONSTRUCTION, THE CONTRACTOR OR ITS EMPLOYEES RELATING TO THEIR WORK AND ANY AND ALL HEALTH AND SAFETY PROGRAMS OR PROCEDURES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR MUST INDEMNIFY, DEFEND, PROTECT AND HOLD HARMLESS BOHLER PARTIES FOR AND FROM ANY LIABILITY TO BOHLER PARTIES RESULTING FROM THE CONTRACTOR'S WORK, INCLUDING ANY AND ALL VIOLATIONS OF THE OSHA REGULATIONS. THE CONTRACTOR MUST ENSURE THAT THE CONTRACTOR MUST NAME BOHLER AS AN ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE AS DESCRIBED ABOVE.
24. WHEN IT IS CLEARLY AND SPECIFICALLY WITHIN BOHLER'S SCOPE OF SERVICES CONTRACT WITH THE OWNER/DEVELOPER, BOHLER WILL REVIEW OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF EVALUATING CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND METHODS AND/OR TECHNIQUES OR PROCEDURES, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND BOHLER HAS NO RESPONSIBILITY OR LIABILITY FOR SAME. BOHLER'S REVIEW OF SUBMITTALS SHALL BE DRAWING REVIEW WITH REASONABLE PROMPTNESS, AS CONDITIONS PERMIT. ANY DOCUMENT, DOCUMENTING BOHLER'S REVIEW OF A SPECIFIC ITEM OR LIMITED SCOPE, MUST NOT INDICATE THAT BOHLER HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. BOHLER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR MUST, IN WRITING, PROMPTLY AND IMMEDIATELY BRING ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS TO BOHLER'S ATTENTION. BOHLER IS NOT REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
25. IF THE CONTRACTOR DEVIATES FROM THESE PLANS AND/OR SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD AND BOHLER FOR ALL DEVIATIONS WITHIN ENGINEER'S SCOPE, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK PERFORMED WHICH DEVIATES FROM THE PLANS, ALL FINES AND/OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM AND, FURTHER, AGREES TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE ENGINEER OF RECORD AND BOHLER PARTIES FROM AND AGAINST ANY AND ALL CLAIMS ASSERTED THEREIN. THE CONTRACTOR MUST NOTIFY THE ENGINEER OF RECORD AND BOHLER, IN WRITING, OF ANY DEVIATIONS



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PROJECT No.:	J201029
DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-SPP-0B

PROJECT:
PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE
REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

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DELAWARE LICENSE No. 17111
OHIO LICENSE No. 78297

SHEET TITLE:
DEMOLITION PLAN 'A'

SHEET NUMBER:
C-201

ORG. DATE - 02/01/2022

ROUTE U.S. 1
(A.K.A. N.J. ROUTE 26 EXTENSION)
(VARIABLE WIDTH R.O.W.)
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)
(55 MPH)

ROUTE U.S. 1 NORTHBOUND BASELINE (SEE)

NORTHBOUND STATION 167+34.66

NJ DOT MONUMENT FOUND

NORTHBOUND STATION 169+96.41

NORTHBOUND STATION 163+30.53

CONTRACTOR TO TELEVISE UPSTREAM AND DOWNSTREAM STORM SEWER CONNECTIONS AND PROVIDE TO ENGINEER OF RECORD PRIOR TO START OF CONSTRUCTION.

"LANE END MERGE, RIGHT"

OVERGROWN

ASPHALT PAVEMENT

PIPE

GRASS

AC TANK

CONC. WALK

BILLBOARD

DIRT

TOWNSHIP OF LAWRENCE
CITY OF TRENTON
OVERGROWN
APPROXIMATE MUNICIPAL BOUNDARY LINE

1 STORY BRICK BUILDING
BUILDING FOOT PRINT AREA=52,232± S.F.

2 STORY BRICK BUILDING
BUILDING FOOT PRINT AREA=183,509± S.F.

2 STORY BRICK BUILDING
BUILDING FOOT PRINT AREA=183,509± S.F.

2 STORY BRICK BUILDING
BUILDING FOOT PRINT AREA=183,509± S.F.

2 STORY BRICK & FRAMED BUILDING
BUILDING FOOT PRINT AREA=9,298± S.F.

1 STORY METAL BUILDING
BUILDING HEIGHT=8.0'±
BUILDING FOOT PRINT AREA=5,022± S.F.

2 STORY METAL BUILDING
BUILDING FOOT PRINT AREA=2,047± S.F.

RAILROAD TRACK

APPROXIMATE LOCATION OF A 10' WIDE UTILITY EASEMENT TO PSE&G, PER D.B. 2087, PG. 329 & PER

APPROXIMATE LOCATION OF A 10' WIDE UTILITY EASEMENT TO PSE&G, PER D.B. 2087, PG. 329

CONTAINER (TYP.)

TRANSFORMER ON CONC. PAD

SHEET 'A'

SHEET 'B'

SHEET 'C'

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GRAPHIC SCALE 30 0 15 30 60 120
1 INCH = 30 FEET

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DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-SPP-0B

PROJECT:
PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE
REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

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BOHLER ENGINEERING NJ, LLC
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Fax: (908) 754-4401
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OHIO,LICENSE No. 78297

SHEET TITLE:
DEMOLITION PLAN 'B'

SHEET NUMBER:
C-202

ORG. DATE - 02/01/2022

ROUTE U.S. 1
(A.K.A. N.J. ROUTE 26 EXTENSION)
(VARIABLE WIDTH R.O.W.)
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)
(55 MPH)

ROUTE U.S. 1 NORTHBOUND BASELINE (SEE)

NORTHBOUND STATION 175+55.27

NJ DOT MONUMENT FOUND

SHEET 'B' SHEET 'C' SHEET 'C' SHEET 'D' SHEET 'A' SHEET 'A' SHEET 'B' SHEET 'C'

1 STORY MASONRY BUILDING BUILDING FOOT PRINT AREA=2,503± S.F.

1 STORY METAL BUILDING BUILDING HEIGHT=8.0'± BUILDING FOOT PRINT AREA=5,022± S.F.

2 STORY METAL BUILDING BUILDING FOOT PRINT AREA=2,047± S.F.

APPROXIMATE LOCATION OF A 10' WIDE PSE&G UTILITY EASEMENT

APPROXIMATE LOCATION OF A 10' WIDE UTILITY EASEMENT TO PSE&G, PER D.B. 2135, PG. 576

APPROXIMATE LOCATION OF "SLOPE E" LINE

APPROXIMATE LOCATION OF "SLOPE S" LINE

APPROXIMATE MUNICIPAL BOUNDARY LINE

TOWNSHIP OF LAWRENCE
TOWNSHIP OF HAMILTON

BRICK/METAL STRUCTURE (APPROXIMATE)

MASONRY SHED

CONTAINER (TYP.)

CONTAINER W/ CONC PAD

ASSUNPINK CREEK

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GRAPHIC SCALE 30 0 15 30 60 120 — 1 INCH = 30 FEET

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PROJECT No.:	J201029
DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-SPP-0B

PROJECT:
PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE
REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

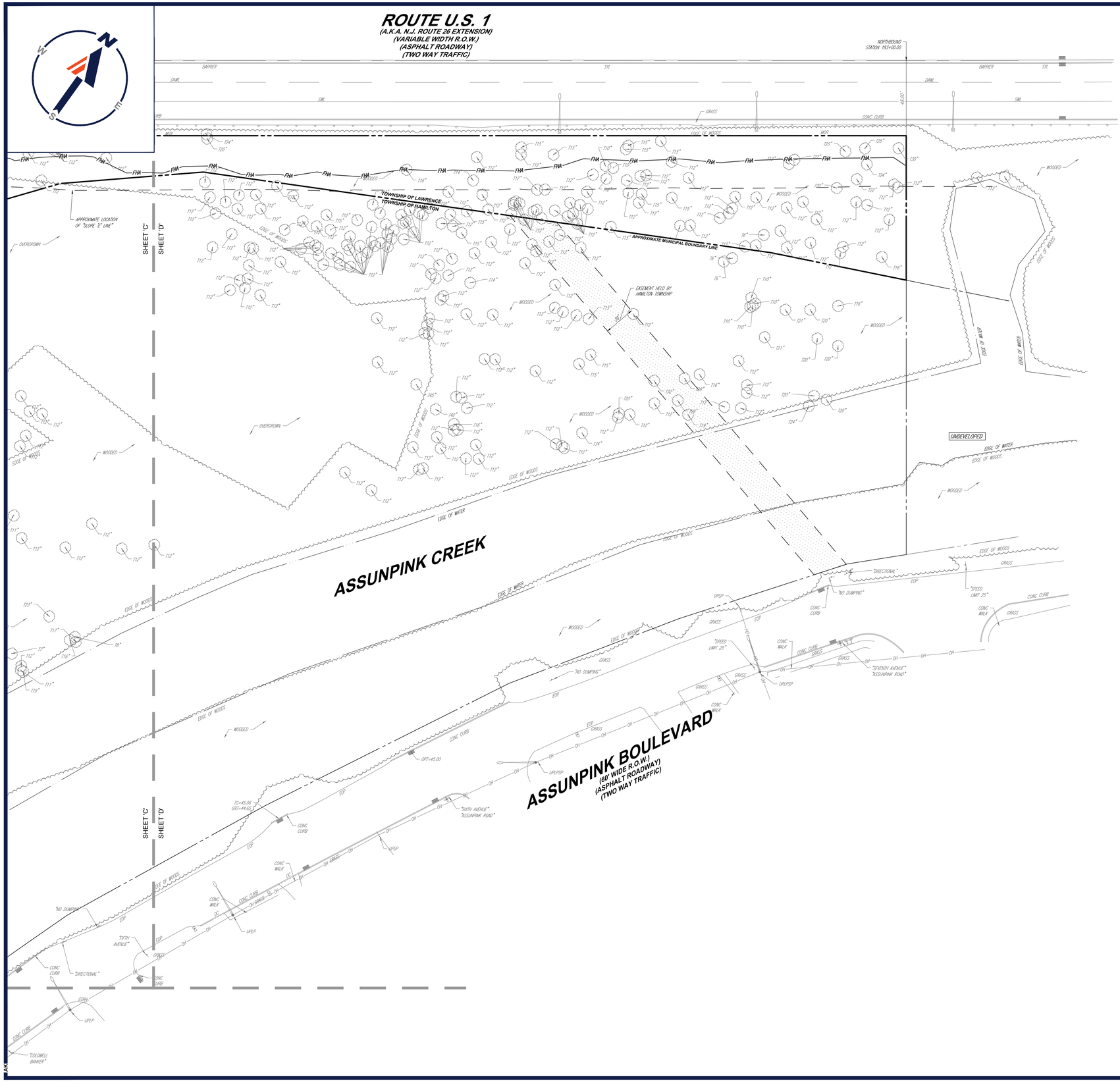
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SHEET TITLE:
DEMOLITION PLAN 'C'

SHEET NUMBER:
C-203

ORG. DATE - 02/01/2022



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30 0 15 30 60 120

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DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-SPP-0B

PROJECT:

PRELIMINARY & FINAL MAJOR SITE PLANS

FOR

LAWRENCE LOGISTICS CENTER

PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER

40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

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CONNECTICUT LICENSE No. 28039
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OHIO LICENSE No. 78297

SHEET TITLE:

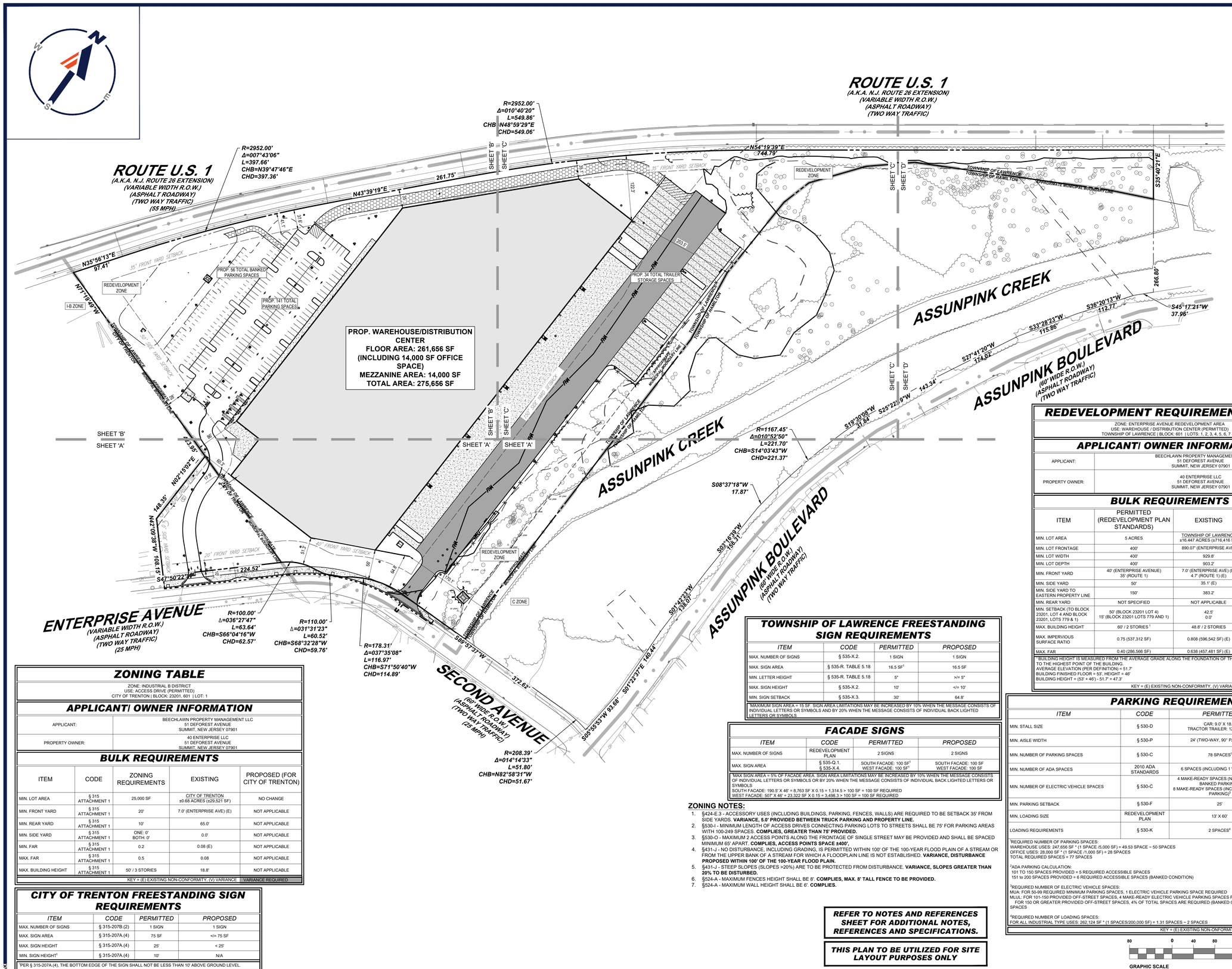
DEMOLITION PLAN 'D'

SHEET NUMBER:

C-204

ORG. DATE - 02/01/2022

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ZONING TABLE

ZONE: INDUSTRIAL B DISTRICT
USE: ACCESS DRIVE (PERMITTED)
CITY OF TRENTON | BLOCK: 23201, 601 | LOT: 1

APPLICANT/ OWNER INFORMATION

APPLICANT:	BEECHLAWN PROPERTY MANAGEMENT LLC 51 DEFOREST AVENUE SUMMIT, NEW JERSEY 07901
PROPERTY OWNER:	40 ENTERPRISE LLC 51 DEFOREST AVENUE SUMMIT, NEW JERSEY 07901

BULK REQUIREMENTS

ITEM	CODE	ZONING REQUIREMENTS	EXISTING	PROPOSED (FOR CITY OF TRENTON)
MIN. LOT AREA	§ 315 ATTACHMENT 1	25,000 SF	CITY OF TRENTON ±0.68 ACRES (±29,521 SF)	NO CHANGE
MIN. FRONT YARD	§ 315 ATTACHMENT 1	20'	7.0' (ENTERPRISE AVE) (E)	NOT APPLICABLE
MIN. REAR YARD	§ 315 ATTACHMENT 1	10'	65.0'	NOT APPLICABLE
MIN. SIDE YARD	§ 315 ATTACHMENT 1	ONE: 0' BOTH: 0'	0.0'	NOT APPLICABLE
MIN. FAR	§ 315 ATTACHMENT 1	0.2	0.08 (E)	NOT APPLICABLE
MAX. FAR	§ 315 ATTACHMENT 1	0.5	0.08	NOT APPLICABLE
MAX. BUILDING HEIGHT	§ 315 ATTACHMENT 1	50' / 3 STORIES	18.8'	NOT APPLICABLE

KEY = (E) EXISTING NON-CONFORMITY, (V) VARIANCE | VARIANCE REQUIRED

CITY OF TRENTON FREESTANDING SIGN REQUIREMENTS

ITEM	CODE	PERMITTED	PROPOSED
MAX. NUMBER OF SIGNS	§ 315-207B.(2)	1 SIGN	1 SIGN
MAX. SIGN AREA	§ 315-207A.(4)	75 SF	</= 75 SF
MAX. SIGN HEIGHT	§ 315-207A.(4)	25'	< 25'
MIN. SIGN HEIGHT[1]	§ 315-207A.(4)	10'	N/A

[1]PER § 315-207A.(4), THE BOTTOM EDGE OF THE SIGN SHALL NOT BE LESS THAN 10' ABOVE GROUND LEVEL.

REDEVELOPMENT REQUIREMENTS TABLE

ZONE: ENTERPRISE AVENUE REDEVELOPMENT AREA
USE: WAREHOUSE / DISTRIBUTION CENTER (PERMITTED)
TOWNSHIP OF LAWRENCE | BLOCK: 601 | LOTS: 1, 2, 3, 4, 5, 6, 7 & 8

APPLICANT/ OWNER INFORMATION

APPLICANT:	BEECHLAWN PROPERTY MANAGEMENT LLC 51 DEFOREST AVENUE SUMMIT, NEW JERSEY 07901
PROPERTY OWNER:	40 ENTERPRISE LLC 51 DEFOREST AVENUE SUMMIT, NEW JERSEY 07901

BULK REQUIREMENTS

ITEM	PERMITTED (REDEVELOPMENT PLAN STANDARDS)	EXISTING	PROPOSED (FOR TOWNSHIP OF LAWRENCE)
MIN. LOT AREA	5 ACRES	TOWNSHIP OF LAWRENCE ±15.447 ACRES (±716,416 SF)	NO CHANGE
MIN. LOT FRONTAGE	400'	890.07' (ENTERPRISE AVE)	NO CHANGE
MIN. LOT WIDTH	400'	929.8'	NO CHANGE
MIN. LOT DEPTH	400'	903.2'	NO CHANGE
MIN. FRONT YARD	40' (ENTERPRISE AVENUE) 35' (ROUTE 1)	7.0' (ENTERPRISE AVE) (E) 4.7' (ROUTE 1) (E)	51.3' (ENTERPRISE AVE) 35.0' (ROUTE 1)
MIN. SIDE YARD	50'	35.1' (E)	60.3'
MIN. SIDE YARD TO EASTERN PROPERTY LINE	150'	383.2'	170.1'
MIN. REAR YARD	NOT SPECIFIED	NOT APPLICABLE	NOT APPLICABLE
MIN. SETBACK (TO BLOCK 23201, LOT 4 AND BLOCK 23201, LOTS 779 & 1)	50' (BLOCK 23201 LOT 4) 15' (BLOCK 23201 LOTS 779 AND 1)	42.5' 0.0'	60.3' 17.9'
MAX. BUILDING HEIGHT	60' / 2 STORIES[1]	48.8' / 2 STORIES	47.3'
MAX. IMPERVIOUS SURFACE RATIO	0.75 (537,312 SF)	0.808 (596,542 SF) (E)	0.615 (440,769 SF) (INCLUDES BANKED PARKING)
MAX. FAR	0.40 (286,566 SF)	0.638 (457,481 SF) (E)	0.385 (275,656 SF)

[1]BUILDING HEIGHT IS MEASURED FROM THE AVERAGE GRADE ALONG THE FOUNDATION OF THE BUILDING FACING THE STREET TO THE HIGHEST POINT OF THE BUILDING.
AVERAGE ELEVATION (PER DEFINITION) = 51.7'
BUILDING FINISHED FLOOR = 53', HEIGHT = 46'
BUILDING HEIGHT = (53' + 46') - 51.7' = 47.3'

KEY = (E) EXISTING NON-CONFORMITY, (V) VARIANCE | VARIANCE REQUIRED

TOWNSHIP OF LAWRENCE FREESTANDING SIGN REQUIREMENTS

ITEM	CODE	PERMITTED	PROPOSED
MAX. NUMBER OF SIGNS	§ 535-X.2.	1 SIGN	1 SIGN
MAX. SIGN AREA	§ 535-R. TABLE 5.18	16.5 SF[2]	16.5 SF
MIN. LETTER HEIGHT	§ 535-R. TABLE 5.18	5"	>/= 5"
MAX. SIGN HEIGHT	§ 535-X.2.	10'	</= 10'
MIN. SIGN SETBACK	§ 535-X.3.	30'	64.8'

[2]MAXIMUM SIGN AREA = 15 SF. SIGN AREA LIMITATIONS MAY BE INCREASED BY 10% WHEN THE MESSAGE CONSISTS OF INDIVIDUAL LETTERS OR SYMBOLS AND BY 20% WHEN THE MESSAGE CONSISTS OF INDIVIDUAL BACK LIGHTED LETTERS OR SYMBOLS

FACADE SIGNS

ITEM	CODE	PERMITTED	PROPOSED
MAX. NUMBER OF SIGNS	REDEVELOPMENT PLAN	2 SIGNS	2 SIGNS
MAX. SIGN AREA	§ 535-Q.1. § 535-X.4	SOUTH FACADE: 100 SF[3] WEST FACADE: 100 SF[3]	SOUTH FACADE: 100 SF WEST FACADE: 100 SF

[3]MAX. SIGN AREA = 5% OF FACADE AREA. SIGN AREA LIMITATIONS MAY BE INCREASED BY 10% WHEN THE MESSAGE CONSISTS OF INDIVIDUAL LETTERS OR SYMBOLS OR BY 20% WHEN THE MESSAGE CONSISTS OF INDIVIDUAL BACK LIGHTED LETTERS OR SYMBOLS
SOUTH FACADE: 190.5' X 46' = 8,763 SF X 0.15 = 1,314.5 > 100 SF = 100 SF REQUIRED
WEST FACADE: 507' X 46' = 23,322 SF X 0.15 = 3,498.3 > 100 SF = 100 SF REQUIRED

PARKING REQUIREMENTS

ITEM	CODE	PERMITTED	PROPOSED
MIN. STALL SIZE	§ 530-D	CAR: 9.0' X 18.0' TRACTOR TRAILER: 12.0' X 60.0'	CAR: 9.0' X 18.0' TRACTOR TRAILER: 12.0' X 60.0'
MIN. AISLE WIDTH	§ 530-P	24' (TWO-WAY, 90° PARKING)	24'
MIN. NUMBER OF PARKING SPACES	§ 530-C	78 SPACES[1]	141 PARKING SPACES 56 BANKED PARKING SPACES TOTAL = 197 PARKING SPACES
MIN. NUMBER OF ADA SPACES	2010 ADA STANDARDS	6 SPACES (INCLUDING 1 VAN SPACE)[2]	6 SPACES (INCLUDING 1 VAN SPACE)
MIN. NUMBER OF ELECTRIC VEHICLE SPACES	§ 530-C	4 MAKE-READY SPACES (NOT INCLUDING BANKED PARKING)[3] 8 MAKE-READY SPACES (INCLUDING BANKED PARKING)[3]	4 EV SPACES 4 MAKE-READY SPACES
MIN. PARKING SETBACK	§ 530-F	25'	37.6' 41.1' (BANKED PARKING)
MIN. LOADING SIZE	REDEVELOPMENT PLAN	13' X 60'	13' X 60'
LOADING REQUIREMENTS	§ 530-K	2 SPACES[4]	44 DOCK SPACES 2 BANKED DOCK SPACES TOTAL = 46 DOCK SPACES

[1]REQUIRED NUMBER OF PARKING SPACES:
WAREHOUSE USES: 247,656 SF * (1 SPACE /5,000 SF) = 49.53 SPACE ~ 50 SPACES
OFFICE USES: 28,000 SF * (1 SPACE /1,000 SF) = 28 SPACES
TOTAL REQUIRED SPACES = 77 SPACES

[2]ADA PARKING CALCULATION:
101 TO 150 SPACES PROVIDED = 5 REQUIRED ACCESSIBLE SPACES
151 to 200 SPACES PROVIDED = 6 REQUIRED ACCESSIBLE SPACES (BANKED CONDITION)

[3]REQUIRED NUMBER OF ELECTRIC VEHICLE SPACES:
MUA: FOR 50-99 REQUIRED MINIMUM PARKING SPACES, 1 ELECTRIC VEHICLE PARKING SPACE REQUIRED
MLUL: FOR 101-150 PROVIDED OFF-STREET SPACES, 4 MAKE-READY ELECTRIC VEHICLE PARKING SPACES REQUIRED
FOR 150 OR GREATER PROVIDED OFF-STREET SPACES, 4% OF TOTAL SPACES ARE REQUIRED (BANKED CONDITION) 197 X 0.04 = 7.88 SPACES = 8 MAKE-READY SPACES

[4]REQUIRED NUMBER OF LOADING SPACES:
FOR ALL INDUSTRIAL TYPE USES: 262,124 SF * (1 SPACES/200,000 SF) = 1.31 SPACES ~ 2 SPACES

KEY = (E) EXISTING NON-ONFORMITY, (V) VARIANCE | VARIANCE REQUIRED

ZONING NOTES:

1. §424-E.3 - ACCESSORY USES (INCLUDING BUILDINGS, PARKING, FENCES, WALLS) ARE REQUIRED TO BE SETBACK 35' FROM SIDE YARDS. **VARIANCE, 5.0' PROVIDED BETWEEN TRUCK PARKING AND PROPERTY LINE.**
2. §530-I - MINIMUM LENGTH OF ACCESS DRIVES CONNECTING PARKING LOTS TO STREETS SHALL BE 75' FOR PARKING AREAS WITH 100-249 SPACES. **COMPLIES, GREATER THAN 75' PROVIDED.**
3. §530-O - MAXIMUM 2 ACCESS POINTS ALONG THE FRONTAGE OF SINGLE STREET MAY BE PROVIDED AND SHALL BE SPACED MINIMUM 65' APART. **COMPLIES, ACCESS POINTS SPACE ±400',**
4. §431-J - NO DISTURBANCE, INCLUDING GRADING, IS PERMITTED WITHIN 100' OF THE 100-YEAR FLOOD PLAIN OF A STREAM OR FROM THE UPPER BANK OF A STREAM FOR WHICH A FLOODPLAIN LINE IS NOT ESTABLISHED. **VARIANCE, DISTURBANCE PROPOSED WITHIN 100' OF THE 100-YEAR FLOOD PLAIN.**
5. §431-J - STEEP SLOPES (SLOPES >20%) ARE TO BE PROTECTED FROM DISTURBANCE. **VARIANCE, SLOPES GREATER THAN 20% TO BE DISTURBED.**
6. §524-A - MAXIMUM FENCES HEIGHT SHALL BE 8'. **COMPLIES, MAX. 8' TALL FENCE TO BE PROVIDED.**
7. §524-A - MAXIMUM WALL HEIGHT SHALL BE 6'. **COMPLIES.**

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80 0 40 80 160 320

GRAPHIC SCALE — 1 INCH = 80 FEET

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CHECKED BY: AS/BAB
DATE: 02/01/2022
CAD I.D.: J201029-SPP-0B

PROJECT:
PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

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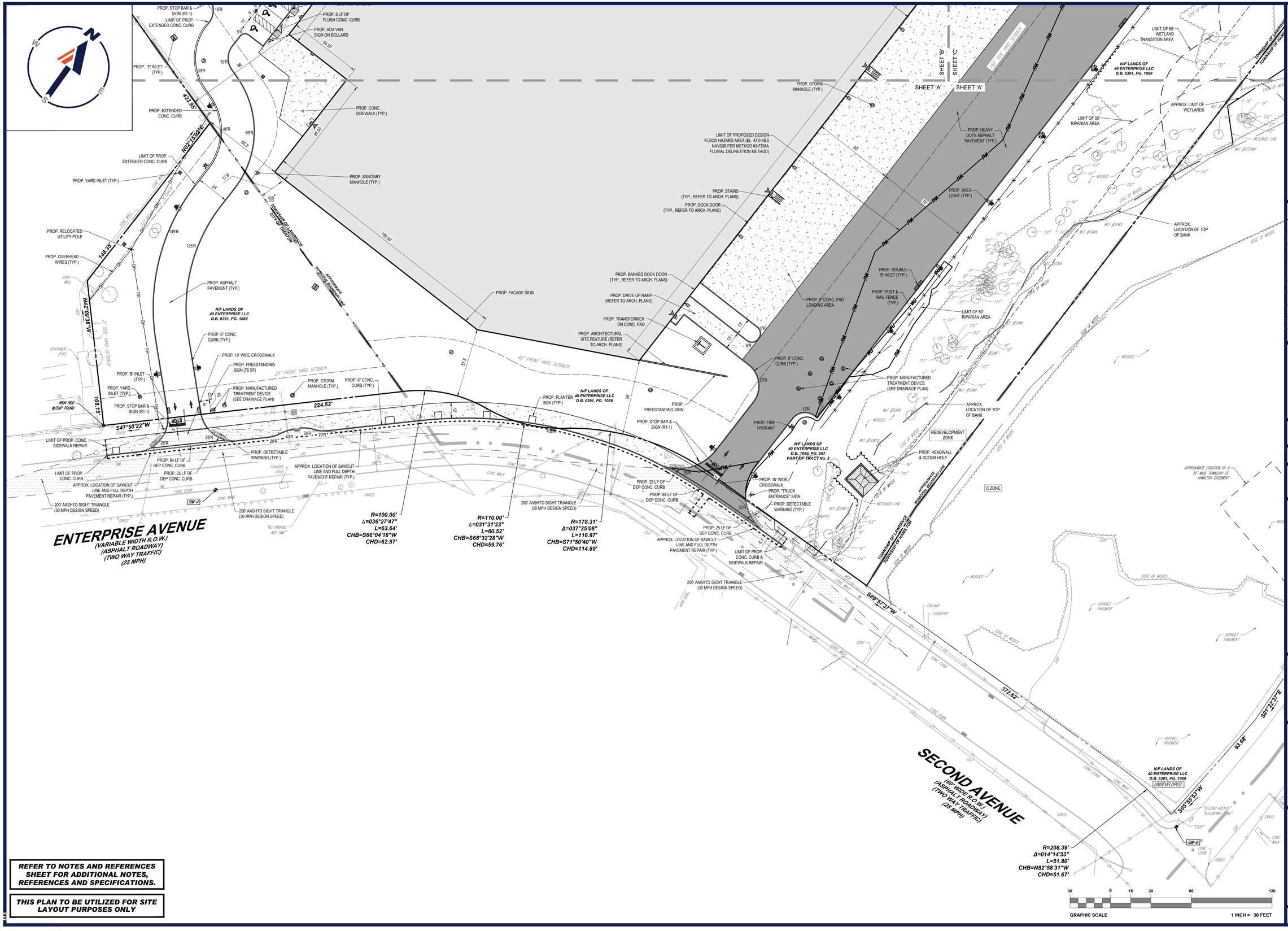
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SHEET TITLE:
OVERALL SITE LAYOUT PLAN

SHEET NUMBER:
C-300

ORG. DATE - 02/01/2022

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FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE
REDEVELOPMENT AREA
TAX MAP SHEET #6
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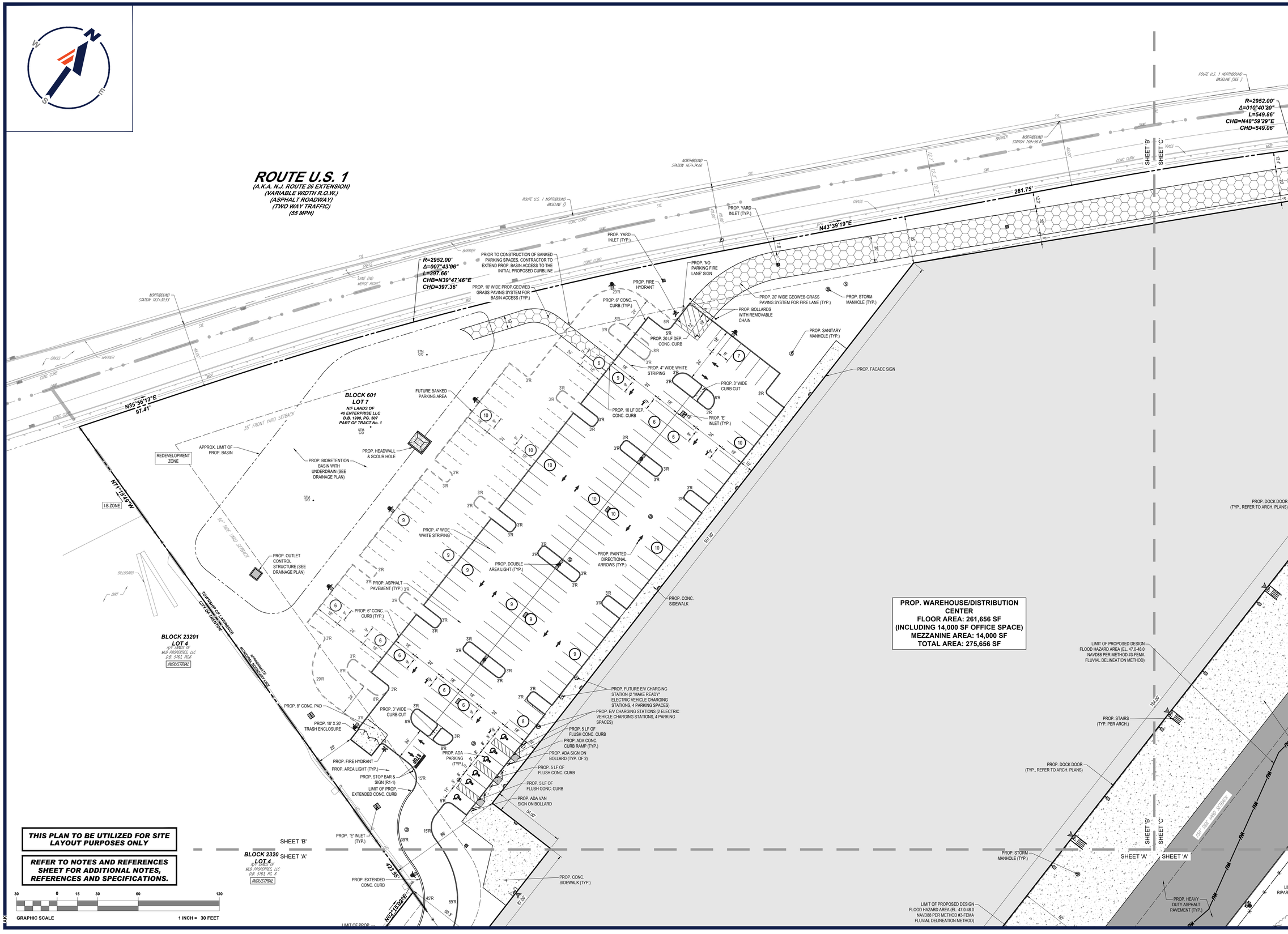
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SHEET TITLE:
SITE LAYOUT PLAN 'A'

SHEET NUMBER:
C-301

ORG. DATE - 02/01/2022

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LAWRENCE LOGISTICS CENTER

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SHEET TITLE:

SITE LAYOUT PLAN 'B'

SHEET NUMBER:

C-302

ORG. DATE - 02/01/2022

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ROUTE U.S. 1
(A.K.A. N.J. ROUTE 26 EXTENSION)
(VARIABLE WIDTH R.O.W.)
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)
(55 MPH)

ROUTE U.S. 1 NORTHBOUND BASELINE (SEE)

NORTHBOUND STATION 175+55.27

ROUTE U.S. 1 NORTHBOUND BASELINE (SEE)

R=2952.00'
Δ=010°40'20"
L=549.86'
CHB=N48°59'29"E
CHD=549.06'

N: 027 MONUMENT FOUND

N54°19'39"E
744.79'

SHEET 'B'
SHEET 'C'
SHEET 'C'
SHEET 'D'
SHEET 'A'
SHEET 'A'
SHEET 'B'
SHEET 'C'

REDEVELOPMENT ZONE

BLOCK 601
LOT 1
N/F LANDS OF
40 ENTERPRISE LLC
D.B. 6391, PG. 1089

BLOCK 601
LOT 2
N/F LANDS OF
40 ENTERPRISE LLC
D.B. 6391, PG. 1089

BLOCK 601
LOT 3
N/F LANDS OF
40 ENTERPRISE LLC
D.B. 6391, PG. 1089

BLOCK 1571
LOT 2
N/F LANDS OF
40 ENTERPRISE LLC
D.B. 6391, PG. 1089

PROP. YARD INLET (TYP.)
PROP. BOLLARDS WITH REMOVABLE CHAIN
PROP. 'NO PARKING FIRE LANE' SIGN
PROP. 20' WIDE GEOWEB GRASS PAVING SYSTEM FOR FIRE LANE
PROP. 20 LF OF FLUSH CONC. CURB
PROP. 6" CONC. CURB (TYP.)
PROP. STORM MANHOLE (TYP.)
PROP. TREE LINE
PROP. LANDSCAPE AREA TO ESTABLISH WETLAND TRANSITION AREA
PROP. HEAVY DUTY ASPHALT PAVEMENT (TYP.)
PROP. 8" CONC. PAD TRAILER STORAGE AREA
PROP. DRIVE UP RAMP (REFER TO ARCH. PLAN)
PROP. 4" WIDE WHITE STRIPING (TYP.)
PROP. FIRE HYDRANT (TYP.)
PROP. 8" CONC. PAD TRAILER STORAGE AREA
PROP. DOUBLE 'B' INLET (TYP.)
PROP. STAIRS (TYP. PER ARCH.)
PROP. AREA LIGHT (TYP.)
PROP. 4" WIDE WHITE STRIPING (TYP.)
PROP. TREE LINE
LIMIT OF PROPOSED DESIGN FLOOD HAZARD AREA (EL. 47.0-48.0 NAVD88 PER METHOD #3-FEMA FLUVIAL DELINEATION METHOD)
PROP. 6" CONC. CURB (TYP.)
PROP. POST & RAIL FENCE (TYP.)
PROP. TREE LINE
PROP. STAIRS (TYP. PER ARCH.)
PROP. 8" CONC. PAD LOADING AREA
PROP. HEAVY DUTY ASPHALT PAVEMENT (TYP.)
LIMIT OF 50' WETLAND TRANSITION AREA
LIMIT OF 50' RIPARIAN AREA
APPROX. LIMIT OF WETLANDS
APPROX. LIMIT OF WETLANDS
LIMIT OF 50' WETLAND TRANSITION AREA
APPROXIMATE LOCATION OF "SLOPE 'X'" LINE
APPROXIMATE LOCATION OF "SLOPE 'X'" LINE
35' FRONT YARD SETBACK
100' SIDE YARD SETBACK
APPROXIMATE MUNICIPAL BOUNDARY LINE
TOWNSHIP OF LAWRENCE
TOWNSHIP OF HAMILTON
TOWNSHIP OF LAWRENCE
TOWNSHIP OF HAMILTON
ASSUNPINK CREEK

R=1167.45'
Δ=010°52'50"
L=221.70'
CHB=S14°03'43"W
CHD=221.37

S19°30'08"W
31.84'

S25°22'19"W
143.34'

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30 0 15 30 60 120
GRAPHIC SCALE
1 INCH = 30 FEET

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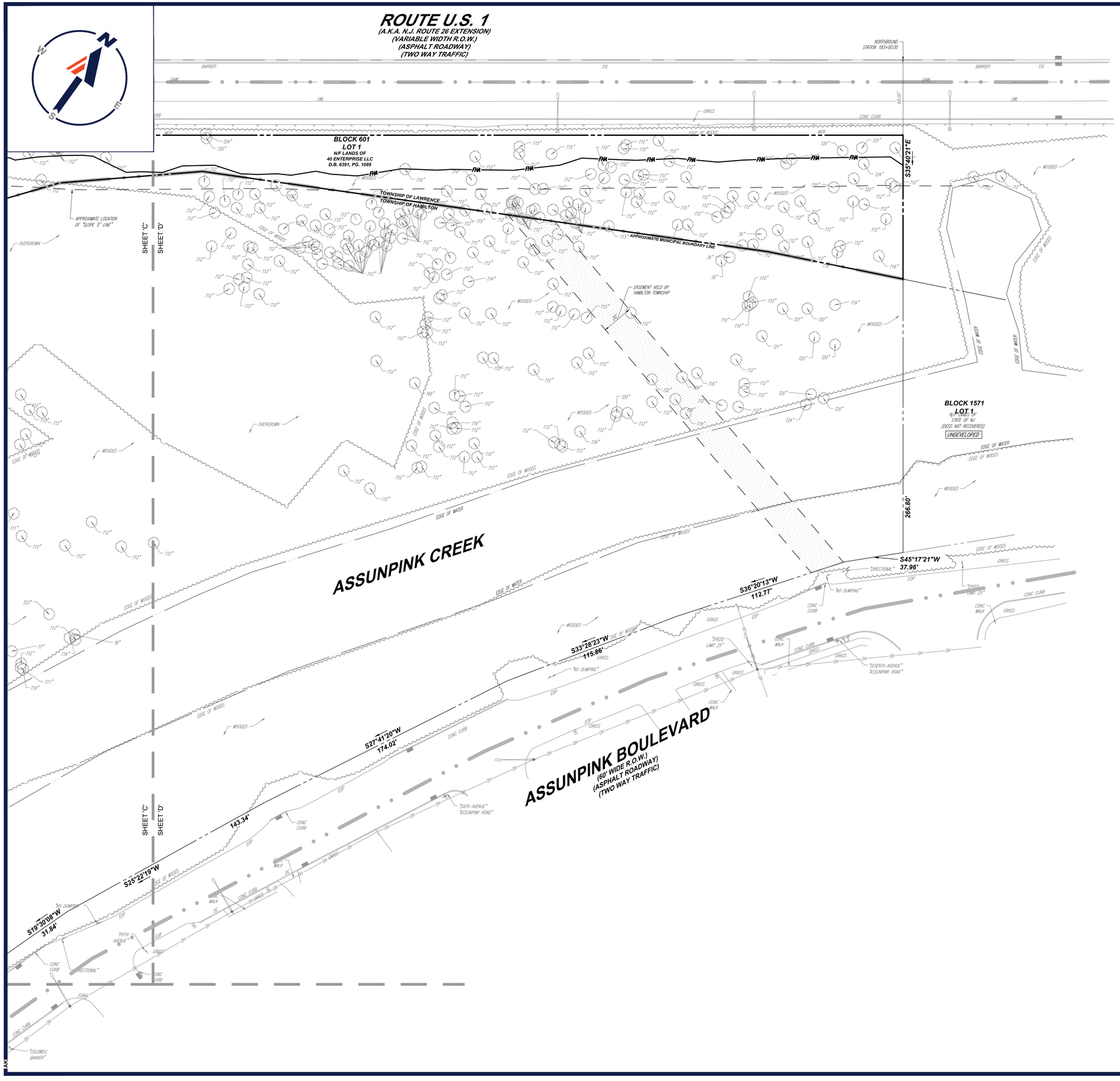
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SHEET TITLE:
SITE LAYOUT PLAN 'C'

SHEET NUMBER:
C-303

ORG. DATE - 02/01/2022

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PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

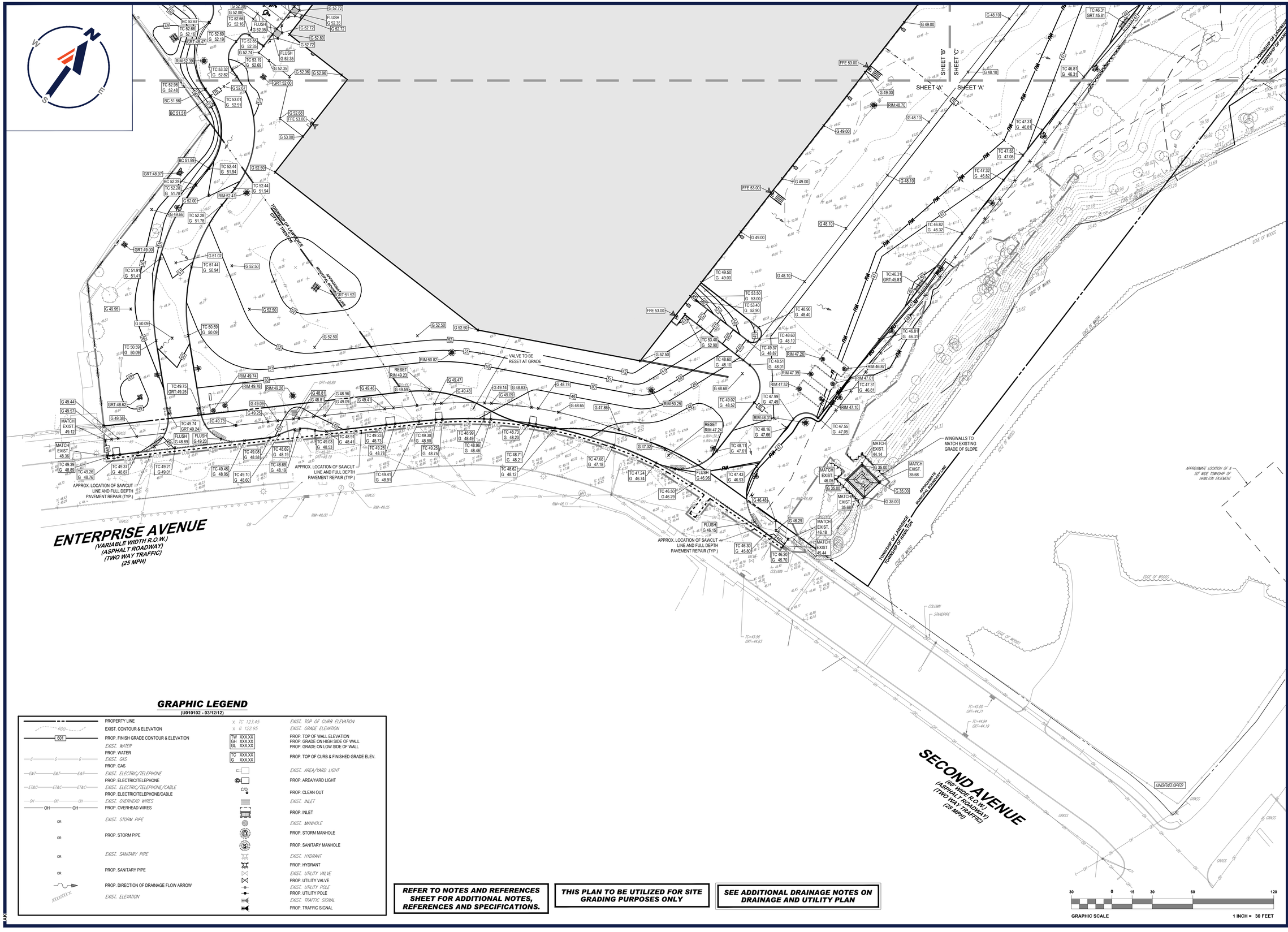
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30 INDEPENDENCE BLVD., SUITE 200
WARREN, NJ 07059
Phone: (908) 668-8300
Fax: (908) 754-4401
www.BohlerEngineering.com
NJ CERT. OF AUTHORIZATION NO. 24GA28161700 & MH000122

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CONNECTICUT LICENSE No. 29039
DELAWARE LICENSE No. 17111
OHIO LICENSE No. 78297

SHEET TITLE:
SITE LAYOUT PLAN 'D'

SHEET NUMBER:
C-304

ORG. DATE - 02/01/2022



GRAPHIC LEGEND

(U010102 - 03/12/12)

PROPERTY LINE		X TC 123.45	EXIST. TOP OF CURB ELEVATION
EXIST. CONTOUR & ELEVATION		X G 122.95	EXIST. GRADE ELEVATION
601 PROP. FINISH GRADE CONTOUR & ELEVATION		TW XXX.XX GH XXX.XX GL XXX.XX	PROP. TOP OF WALL ELEVATION PROP. GRADE ON HIGH SIDE OF WALL PROP. GRADE ON LOW SIDE OF WALL
EXIST. WATER			
PROP. WATER		TC XXX.XX G XXX.XX	PROP. TOP OF CURB & FINISHED GRADE ELEV.
EXIST. GAS			
PROP. GAS			
EXIST. ELECTRIC/TELEPHONE			EXIST. AREA/YARD LIGHT
PROP. ELECTRIC/TELEPHONE			PROP. AREA/YARD LIGHT
EXIST. ELECTRIC/TELEPHONE/CABLE		C/O	
PROP. ELECTRIC/TELEPHONE/CABLE			PROP. CLEAN OUT
EXIST. OVERHEAD WIRES			EXIST. INLET
PROP. OVERHEAD WIRES			PROP. INLET
EXIST. STORM PIPE OR			EXIST. MANHOLE
PROP. STORM PIPE OR		D	PROP. STORM MANHOLE
EXIST. SANITARY PIPE OR		S	PROP. SANITARY MANHOLE
PROP. SANITARY PIPE OR			EXIST. HYDRANT
PROP. DIRECTION OF DRAINAGE FLOW ARROW			PROP. HYDRANT EXIST. UTILITY VALVE PROP. UTILITY VALVE
XXXXXXXX EXIST. ELEVATION			EXIST. UTILITY POLE PROP. UTILITY POLE EXIST. TRAFFIC SIGNAL PROP. TRAFFIC SIGNAL

REFER TO NOTES AND REFERENCES SHEET FOR ADDITIONAL NOTES, REFERENCES AND SPECIFICATIONS.

THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY

SEE ADDITIONAL DRAINAGE NOTES ON DRAINAGE AND UTILITY PLAN

30 0 15 30 60 120

GRAPHIC SCALE 1 INCH = 30 FEET

BOHLER

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LAND SURVEYING
PROGRAM MANAGEMENT
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ENVIRONMENTAL SERVICES
PERMITTING SERVICES
TRANSPORTATION SERVICES

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PROJECT No.:	J201029
DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-GRD-0B

PROJECT:

PRELIMINARY & FINAL MAJOR SITE PLANS

FOR

LAWRENCE LOGISTICS CENTER

PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER

40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE
REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

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PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 47421
NEW YORK LICENSE No. 088514-1
PENNSYLVANIA LICENSE No. 077366
CONNECTICUT LICENSE No. 28039
DELAWARE LICENSE No. 17111
OHIO LICENSE No. 78297

SHEET TITLE:

GRADING PLAN 'A'

SHEET NUMBER:

C-401

ORG. DATE - 02/01/2022

G:\2020\J201029\DRAWINGS\CURRENT DRAWINGS\SITE PLAN PACKAGE\J201029-GRD-0B.dwg — LAYOUT: C-401 GRADA

AKT

REFER TO NOTES AND REFERENCES SHEET FOR ADDITIONAL NOTES, REFERENCES AND SPECIFICATIONS.

THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY

SEE ADDITIONAL DRAINAGE NOTES ON DRAINAGE AND UTILITY PLAN

GRAPHIC SCALE 30 0 15 30 60 120 — 1 INCH = 30 FEET

ROUTE U.S. 1

(A.K.A. N.J. ROUTE 26 EXTENSION)
(VARIABLE WIDTH R.O.W.)
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)
(55 MPH)

BLOCK 601
LOT 7
N/F LANDS OF
40 ENTERPRISE LLC
D.B. 1990, PG. 507
PART OF TRACT No. 1
INDUSTRIAL

BLOCK 23201
LOT 4
N/F LANDS OF
MLB PROPERTIES, LLC
D.B. 5761, PG.6
INDUSTRIAL

BLOCK 2320
LOT 4
N/F LANDS OF
MLB PROPERTIES, LLC
D.B. 5761, PG. 6
INDUSTRIAL

CONTRACTOR TO PROVIDE MIN. 2% SLOPE IN LANDSCAPE AREA AND DIRECT TOWARDS BIORETENTION BASIN

TOWNSHIP OF LAWRENCE / CITY OF TRENTON

WATER & SEWER LINE

UPSP W/AREA LIGHT

SHEET 'A' SHEET 'B' SHEET 'C'

PROP. WAREHOUSE/DISTRIBUTION CENTER
FLOOR AREA: 261,656 SF
(INCLUDING 14,000 SF OFFICE SPACE)
MEZZANINE AREA: 14,000 SF
TOTAL AREA: 275,656 SF

FFE: 53.00

GRAPHIC LEGEND

(U010102 - 03/12/12)

- PROPERTY LINE
- EXIST. CONTOUR & ELEVATION
- PROP. FINISH GRADE CONTOUR & ELEVATION
- EXIST. WATER
- PROP. WATER
- EXIST. GAS
- PROP. GAS
- EXIST. ELECTRIC/TELEPHONE
- PROP. ELECTRIC/TELEPHONE
- EXIST. ELECTRIC/TELEPHONE/CABLE
- PROP. ELECTRIC/TELEPHONE/CABLE
- EXIST. OVERHEAD WIRES
- PROP. OVERHEAD WIRES
- EXIST. STORM PIPE
- PROP. STORM PIPE
- EXIST. SANITARY PIPE
- PROP. SANITARY PIPE
- PROP. DIRECTION OF DRAINAGE FLOW ARROW
- EXIST. ELEVATION
- EXIST. TOP OF CURB ELEVATION
- EXIST. GRADE ELEVATION
- PROP. TOP OF WALL ELEVATION / PROP. GRADE ON HIGH SIDE OF WALL / PROP. GRADE ON LOW SIDE OF WALL
- PROP. TOP OF CURB & FINISHED GRADE ELEV.
- EXIST. AREA/YARD LIGHT
- PROP. AREA/YARD LIGHT
- PROP. CLEAN OUT
- EXIST. INLET
- PROP. INLET
- EXIST. MANHOLE
- PROP. STORM MANHOLE
- PROP. SANITARY MANHOLE
- EXIST. HYDRANT
- PROP. HYDRANT
- EXIST. UTILITY VALVE
- PROP. UTILITY VALVE
- EXIST. UTILITY POLE
- PROP. UTILITY POLE
- EXIST. TRAFFIC SIGNAL
- PROP. TRAFFIC SIGNAL

G:\2020\J201029\DRAWINGS\CURRENT DRAWINGS\SITE PLAN PACKAGE\J201029-GRD-0B-----LAYOUT: C-402 GRADB

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CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-GRD-0B

PROJECT:

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FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
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TAX MAP SHEET #6
BLOCK 23201, LOT 1
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IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

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PENNSYLVANIA LICENSE No. 077366
CONNECTICUT LICENSE No. 26039
DELAWARE LICENSE No. 17111
OHIO LICENSE No. 74297

SHEET TITLE:

GRADING PLAN 'B'

SHEET NUMBER:

C-402

ORG. DATE - 02/01/2022

SEE ADDITIONAL DRAINAGE NOTES ON DRAINAGE AND UTILITY PLAN

REFER TO NOTES AND REFERENCES SHEET FOR ADDITIONAL NOTES, REFERENCES AND SPECIFICATIONS.

THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY

ROUTE U.S. 1
(A.K.A. N.J. ROUTE 26 EXTENSION)
(VARIABLE WIDTH R.O.W.)
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)
(55 MPH)

SHEET 'A' | SHEET 'B' | SHEET 'C' | SHEET 'D'

ASSUNPINK CREEK

TOWNSHIP OF LAWRENCE / TOWNSHIP OF HAMILTON

APPROXIMATE LOCATION OF "SLOPE 'E' LINE"

EDGE OF WOODS | EDGE OF WATER | WETLANDS LINE | WETLANDS LIMIT

GRAPHIC LEGEND
(U010102 - 03/12/12)

- PROPERTY LINE
- EXIST. CONTOUR & ELEVATION
- PROP. FINISH GRADE CONTOUR & ELEVATION
- EXIST. WATER
- PROP. WATER
- EXIST. GAS
- PROP. GAS
- EXIST. ELECTRIC/TELEPHONE
- PROP. ELECTRIC/TELEPHONE
- EXIST. ELECTRIC/TELEPHONE/CABLE
- PROP. ELECTRIC/TELEPHONE/CABLE
- EXIST. OVERHEAD WIRES
- PROP. OVERHEAD WIRES
- EXIST. STORM PIPE
- PROP. STORM PIPE
- EXIST. SANITARY PIPE
- PROP. SANITARY PIPE
- PROP. DIRECTION OF DRAINAGE FLOW ARROW
- EXIST. ELEVATION
- EXIST. TOP OF CURB ELEVATION
- EXIST. GRADE ELEVATION
- PROP. TOP OF WALL ELEVATION / PROP. GRADE ON HIGH SIDE OF WALL / PROP. GRADE ON LOW SIDE OF WALL
- PROP. TOP OF CURB & FINISHED GRADE ELEV.
- EXIST. AREA/YARD LIGHT
- PROP. AREA/YARD LIGHT
- PROP. CLEAN OUT
- EXIST. INLET
- PROP. INLET
- EXIST. MANHOLE
- PROP. STORM MANHOLE
- PROP. SANITARY MANHOLE
- EXIST. HYDRANT
- PROP. HYDRANT
- EXIST. UTILITY VALVE
- PROP. UTILITY VALVE
- EXIST. UTILITY POLE
- PROP. UTILITY POLE
- EXIST. TRAFFIC SIGNAL
- PROP. TRAFFIC SIGNAL

30 0 15 30 60 120

GRAPHIC SCALE — 1 INCH = 30 FEET

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PROJECT No.:	J201029
DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-GRD-0B

PROJECT:

PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

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SHEET TITLE:

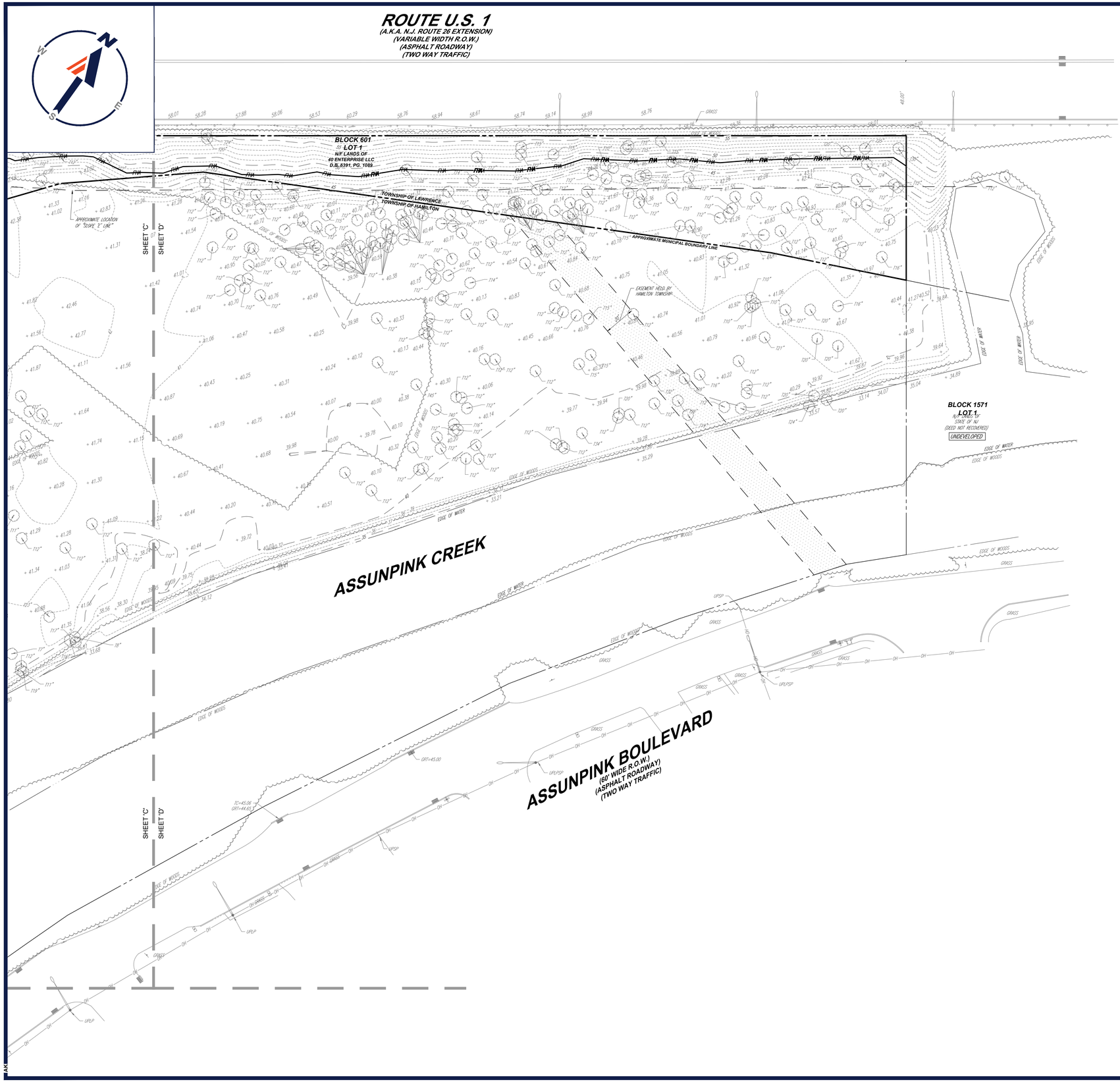
GRADING PLAN 'C'

SHEET NUMBER:

C-403

ORG. DATE - 02/01/2022

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GRAPHIC LEGEND

(U010102 - 03/12/12)

	PROPERTY LINE
600	EXIST. CONTOUR & ELEVATION
601	PROP. FINISH GRADE CONTOUR & ELEVATION
#—#—#	EXIST. WATER
W—W	PROP. WATER
G—G	PROP. GAS
E&T—E&T—E&T	EXIST. ELECTRIC/TELEPHONE
E&T—E&T	PROP. ELECTRIC/TELEPHONE
ET&C—ET&C—ET&C	EXIST. ELECTRIC/TELEPHONE/CABLE
ET&C—ET&C	PROP. ELECTRIC/TELEPHONE/CABLE
OH—OH—OH	EXIST. OVERHEAD WIRES
OH—OH	PROP. OVERHEAD WIRES
D—D—D OR D—D	EXIST. STORM PIPE
D—D OR D—D	PROP. STORM PIPE
S—S—S OR S—S	EXIST. SANITARY PIPE
S—S OR S—S	PROP. SANITARY PIPE
	PROP. DIRECTION OF DRAINAGE FLOW ARROW
123.45 +	EXIST. ELEVATION
× TC 123.45	EXIST. TOP OF CURB ELEVATION
× G 122.95	EXIST. GRADE ELEVATION
TW XXX.XX GH XXX.XX GL XXX.XX	PROP. TOP OF WALL ELEVATION PROP. GRADE ON HIGH SIDE OF WALL PROP. GRADE ON LOW SIDE OF WALL
TC XXX.XX G XXX.XX	PROP. TOP OF CURB & FINISHED GRADE ELEV.
	EXIST. AREA/YARD LIGHT
	PROP. AREA/YARD LIGHT
C/O	PROP. CLEAN OUT
	EXIST. INLET
	PROP. INLET
	EXIST. MANHOLE
D	PROP. STORM MANHOLE
S	PROP. SANITARY MANHOLE
	EXIST. HYDRANT
	PROP. HYDRANT
	EXIST. UTILITY VALVE
	PROP. UTILITY VALVE
	EXIST. UTILITY POLE
	PROP. UTILITY POLE
	EXIST. TRAFFIC SIGNAL
	PROP. TRAFFIC SIGNAL

SEE ADDITIONAL DRAINAGE NOTES ON DRAINAGE AND UTILITY PLAN

REFER TO NOTES AND REFERENCES SHEET FOR ADDITIONAL NOTES, REFERENCES AND SPECIFICATIONS.

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30 0 15 30 60 120

GRAPHIC SCALE 1 INCH = 30 FEET

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DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-GRD-0B

PROJECT:

PRELIMINARY & FINAL MAJOR SITE PLANS

FOR

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PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
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CONNECTICUT LICENSE No. 28039
DELAWARE LICENSE No. 17111
OHIO LICENSE No. 78297

SHEET TITLE:

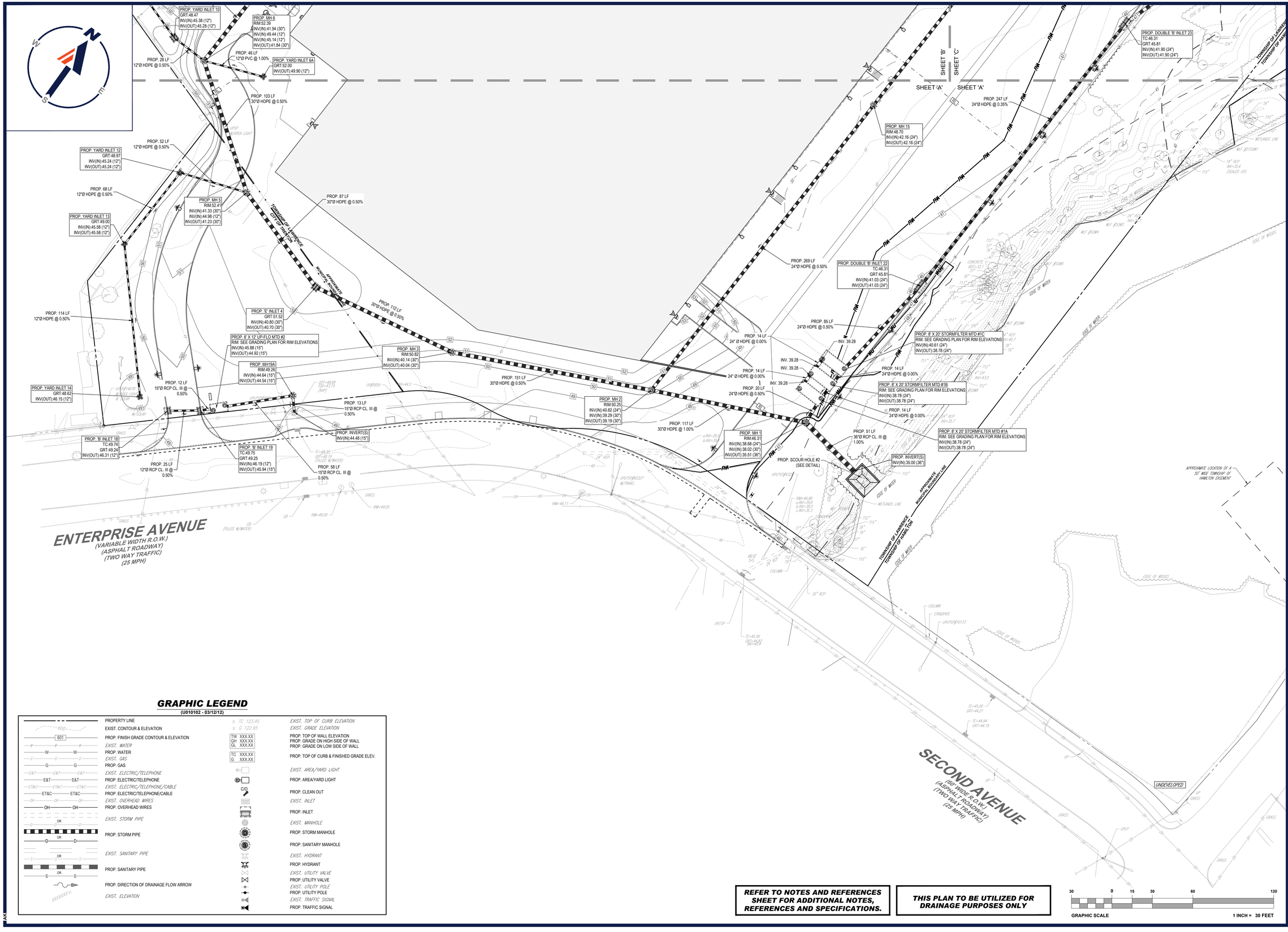
GRADING PLAN 'D'

SHEET NUMBER:

C-404

ORG. DATE - 02/01/2022

C:\2020\201029\DRAWINGS\CURRENT DRAWINGS\SITE PLAN PACKAGE\J201029-GRD-0B----LAYOUT C-404 GRADING



GRAPHIC LEGEND

(U010102 - 03/12/12)

	PROPERTY LINE	X. TC 123.45	EXIST. TOP OF CURB ELEVATION
600	EXIST. CONTOUR & ELEVATION	X. G 123.95	EXIST. GRADE ELEVATION
601	PROP. FINISH GRADE CONTOUR & ELEVATION	TW XXX.XX GH XXX.XX GL XXX.XX	PROP. TOP OF WALL ELEVATION PROP. GRADE ON HIGH SIDE OF WALL PROP. GRADE ON LOW SIDE OF WALL
W W W	EXIST. WATER		
W W W	PROP. WATER	TC XXX.XX G XXX.XX	PROP. TOP OF CURB & FINISHED GRADE ELEV.
G G G	EXIST. GAS		
G G G	PROP. GAS		
E&T E&T E&T	EXIST. ELECTRIC/TELEPHONE		EXIST. AREA/YARD LIGHT
E&T E&T E&T	PROP. ELECTRIC/TELEPHONE		PROP. AREA/YARD LIGHT
ET&C ET&C ET&C	EXIST. ELECTRIC/TELEPHONE/CABLE	C/O	PROP. CLEAN OUT
ET&C ET&C ET&C	PROP. ELECTRIC/TELEPHONE/CABLE		EXIST. INLET
OH OH OH	PROP. OVERHEAD WIRES		PROP. INLET
D D D OR	EXIST. STORM PIPE		EXIST. MANHOLE
D D D OR	PROP. STORM PIPE	D	PROP. STORM MANHOLE
S S S OR	EXIST. SANITARY PIPE	S	PROP. SANITARY MANHOLE
S S S OR	PROP. SANITARY PIPE		EXIST. HYDRANT
			PROP. HYDRANT
			EXIST. UTILITY VALVE
			PROP. UTILITY VALVE
	PROP. DIRECTION OF DRAINAGE FLOW ARROW		EXIST. UTILITY POLE
XXXXXXX	EXIST. ELEVATION		PROP. UTILITY POLE
			EXIST. TRAFFIC SIGNAL
			PROP. TRAFFIC SIGNAL

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30 0 15 30 60 120

GRAPHIC SCALE 1 INCH = 30 FEET

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PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER

40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE
REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

BOHLER
BOHLER ENGINEERING NJ, LLC
30 INDEPENDENCE BLVD., SUITE 200
WARREN, NJ 07059
Phone: (908) 668-8300
Fax: (908) 754-4401
www.BohlerEngineering.com
NJ CERT. OF AUTHORIZATION NO. 24GA28161700 & MH000122

B.A. BOHLER
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 47421
NEW YORK LICENSE No. 088514-1
PENNSYLVANIA LICENSE No. 077366
CONNECTICUT LICENSE No. 26039
DELAWARE LICENSE No. 17111
OHIO LICENSE No. 78297

SHEET TITLE:

DRAINAGE PLAN 'A'

SHEET NUMBER:

C-405

ORG. DATE - 02/01/2022

REFER TO NOTES AND REFERENCES SHEET FOR ADDITIONAL NOTES, REFERENCES AND SPECIFICATIONS.

THIS PLAN TO BE UTILIZED FOR DRAINAGE PURPOSES ONLY

ROUTE U.S. 1
(A.K.A. N.J. ROUTE 26 EXTENSION)
(VARIABLE WIDTH R.O.W.)
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)
(55 MPH)

PROP. BIORENTETION BASIN WITH UNDERDRAIN & LINER
TOP OF BERM: 49.50
100-YEAR STORM: 48.84
WQ STORM: 48.33
BOTTOM OF BASIN: 48.00

PROP. BR CO
RIM:48.00
INV(OUT):44.65 (12")

PROP. 206 LF
12"Ø PVC @ 0.10%

PROP. SCOUR HOLE #1
(SEE DETAIL)

PROP. INVERT(S)
INV(IN):48.00 (24")

PROP. OUTLET CONTROL STRUCTURE #1 (5.0' X 5.0')
GRT:48.35
INV(IN):44.44 (12")
INV(OUT):43.94 (18")

PROP. 135 LF
24"Ø RCP CL. V @ 0.30%

PROP. E INLET 27
GRT:51.14
INV(IN):49.29 (15")
INV(OUT):49.04 (18")

PROP. 47 LF
18"Ø RCP CL. V @ 0.30%

PROP. MH 26
RIM:51.68
INV(IN):48.90 (18")
INV(IN):48.90 (18")
INV(OUT):48.40 (24")

PROP. 53 LF
18"Ø RCP CL. V @ 0.30%

PROP. E INLET 29
GRT:51.23
INV(IN):49.31 (15")
INV(OUT):49.06 (18")

PROP. 205 LF
18"Ø RCP CL. III @ 0.30%

PROP. 81 LF
15"Ø RCP CL. V @ 0.30%

PROP. E INLET 30
GRT:51.32
INV(OUT):49.55 (15")

PROP. YARD INLET 11
GRT:48.41
INV(OUT):45.80 (12")

PROP. MH 7
RIM:51.95
INV(IN):43.34 (18")
INV(IN):45.62 (24")
INV(OUT):42.34 (30")

PROP. 84 LF
12"Ø HDPE @ 0.50%

PROP. 81 LF
30"Ø HDPE @ 0.50%

PROP. YARD INLET 10
GRT:48.47
INV(IN):45.38 (12")
INV(OUT):45.28 (12")

PROP. MH 6
RIM:52.39
INV(IN):41.94 (30")
INV(IN):49.44 (12")
INV(IN):45.14 (12")
INV(OUT):41.84 (30")

PROP. 28 LF
12"Ø HDPE @ 0.50%

PROP. 46 LF
12"Ø PVC @ 1.00%

PROP. YARD INLET 6A
GRT:52.00
INV(OUT):48.90 (12")

PROP. 103 LF
30"Ø HDPE @ 0.50%

PROP. 52 LF

PROP. 86 LF
15"Ø HDPE @ 0.25%

PROP. YARD INLET 21A
GRT:50.75
INV(OUT):47.36 (15")

PROP. YARD INLET 21
GRT:49.91
INV(IN):47.15 (15")
INV(OUT):47.15 (15")

PROP. MH 9
RIM:51.47
INV(OUT):47.75 (24")

PROP. 172 LF
15"Ø HDPE @ 0.25%

PROP. YARD INLET 20
GRT:50.52
INV(IN):46.72 (15")
INV(OUT):46.72 (15")

PROP. 263
15"Ø HDPE

PROP. E INLET 28
GRT:51.24
INV(OUT):49.56 (15")

PROP. 214 LF
24"Ø HDPE @ 0.50%

PROP. 91 LF
15"Ø RCP CL. V @ 0.30%

PROP. MH 8
RIM:51.82
INV(IN):46.69 (24")
INV(OUT):46.69 (24")

PROP. 213 LF
24"Ø HDPE @ 0.50%

PROP. 247 LF
24"Ø HDPE @ 0.35%

PROP. WAREHOUSE/DISTRIBUTION CENTER
FLOOR AREA: 261,656 SF
(INCLUDING 14,000 SF OFFICE SPACE)
MEZZANINE AREA: 14,000 SF
TOTAL AREA: 275,656 SF

TOWNSHIP OF LAWRENCE - CITY OF TRENTON
APPROXIMATE MUNICIPAL BOUNDARY LINE

SHEET 'A'
SHEET 'B'
SHEET 'C'

GRT=59.10 (FILLED W/DEBRIS)

GRASS
48' EOT

30 0 15 30 60 120
GRAPHIC SCALE 1 INCH = 30 FEET

GRAPHIC LEGEND
(UD10102 - 03/12/12)

- PROPERTY LINE
- 600 — EXIST. CONTOUR & ELEVATION
- 601 — PROP. FINISH GRADE CONTOUR & ELEVATION
- W — EXIST. WATER
- W — PROP. WATER
- G — EXIST. GAS
- G — PROP. GAS
- E&T — EXIST. ELECTRIC/TELEPHONE
- E&T — PROP. ELECTRIC/TELEPHONE
- ET&C — EXIST. ELECTRIC/TELEPHONE/CABLE
- ET&C — PROP. ELECTRIC/TELEPHONE/CABLE
- OH — EXIST. OVERHEAD WIRES
- OH — PROP. OVERHEAD WIRES
- EXIST. STORM PIPE
- OR
- PROP. STORM PIPE
- D — OR — D
- EXIST. SANITARY PIPE
- S — OR — S
- PROP. SANITARY PIPE
- PROP. DIRECTION OF DRAINAGE FLOW ARROW
- 123.45 + — EXIST. ELEVATION
- x TC 123.45 — EXIST. TOP OF CURB ELEVATION
- x G 122.95 — EXIST. GRADE ELEVATION
- TW XXX.XX / GH XXX.XX / GL XXX.XX — PROP. TOP OF WALL ELEVATION; PROP. GRADE ON HIGH SIDE OF WALL; PROP. GRADE ON LOW SIDE OF WALL
- TC XXX.XX / G XXX.XX — PROP. TOP OF CURB & FINISHED GRADE ELEV.
- EXIST. AREA/YARD LIGHT
- PROP. AREA/YARD LIGHT
- C/O — PROP. CLEAN OUT
- EXIST. INLET
- PROP. INLET
- EXIST. MANHOLE
- PROP. STORM MANHOLE
- PROP. SANITARY MANHOLE
- EXIST. HYDRANT
- PROP. HYDRANT
- EXIST. UTILITY VALVE
- PROP. UTILITY VALVE
- EXIST. UTILITY POLE
- PROP. UTILITY POLE
- EXIST. TRAFFIC SIGNAL
- PROP. TRAFFIC SIGNAL

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PROJECT No.:	J201029
DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-DRN-0B

PROJECT:

PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
LAWRENCE LOGISTICS CENTER

PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE
REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

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PENNSYLVANIA LICENSE No. 077366
CONNECTICUT LICENSE No. 28039
DELAWARE LICENSE No. 17111
OHIO LICENSE No. 78297

SHEET TITLE:

DRAINAGE PLAN 'B'

SHEET NUMBER:

C-406

ORG. DATE - 02/01/2022

REFER TO NOTES AND REFERENCES SHEET FOR ADDITIONAL NOTES, REFERENCES AND SPECIFICATIONS.

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY

ROUTE U.S. 1
(A.K.A. N.J. ROUTE 26 EXTENSION)
(VARIABLE WIDTH R.O.W.)
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)
(55 MPH)

SHEET 'A' | SHEET 'B' | SHEET 'C' | SHEET 'D'

PROP. YARD INLET 19
GRT:52.38
INV(IN):46.07 (15")
INV(OUT):46.07 (15")

PROP. 263 LF
15"Ø HDPE @ 0.25%

PROP. YARD INLET 20
GRT:50.62
INV(IN):46.72 (15")
INV(OUT):46.72 (15")

PROP. 105 LF
15"Ø HDPE @ 0.25%

PROP. 54 LF
15"Ø HDPE @ 0.25%

PROP. MH 17
RIM:48.70
INV(IN):45.60 (15")
INV(OUT):44.85 (24")

PROP. MH 18
RIM:50.97
INV(IN):45.81 (15")
INV(OUT):45.73 (15")

PROP. 270 LF
24"Ø HDPE @ 0.50%

PROP. 181 LF
18"Ø RCP CL V @ 0.35%

PROP. DOUBLE 'B' INLET 25
TC:45.77
GRT:45.27
INV(OUT):43.08 (18")

PROP. MH 16
RIM:48.70
INV(IN):43.51 (24")
INV(OUT):43.51 (24")

PROP. DOUBLE 'B' INLET 24
TC:45.69
GRT:45.19
INV(IN):42.45 (18")
INV(OUT):42.45 (24")

PROP. 222 LF
24"Ø RCP CL V @ 0.25%

PROP. 270 LF
24"Ø HDPE @ 0.50%

PROP. DOUBLE 'B' INLET 23
TC:46.31
GRT:45.81
INV(IN):41.90 (24")
INV(OUT):41.90 (24")

PROP. 247 LF
24"Ø HDPE @ 0.35%

PROP. MH 15
RIM:48.70
INV(IN):42.16 (24")
INV(OUT):42.16 (24")

APPROXIMATE LOCATION OF "SLOPE 'E' LINE"

APPROXIMATE MUNICIPAL BOUNDARY LINE

TOWNSHIP OF LAWRENCE / TOWNSHIP OF HAMILTON

EDGE OF WOODS | EDGE OF WATER | WETLANDS LINE | WLF #1 … WLF #25 | 16" WSA INV=35.5 | 45" RCP INV=35.7 | GRT=56.48 (FILLED W/DEBRIS) | GRASS | 40.63' | 40.65'

ASSUNPINK CREEK

GRAPHIC LEGEND
(U010102 - 03/12/12)

	PROPERTY LINE
600	EXIST. CONTOUR & ELEVATION
601	PROP. FINISH GRADE CONTOUR & ELEVATION
W	EXIST. WATER
W	PROP. WATER
G	EXIST. GAS
G	PROP. GAS
E&T	EXIST. ELECTRIC/TELEPHONE
E&T	PROP. ELECTRIC/TELEPHONE
ET&C	EXIST. ELECTRIC/TELEPHONE/CABLE
ET&C	PROP. ELECTRIC/TELEPHONE/CABLE
OH	EXIST. OVERHEAD WIRES
OH	PROP. OVERHEAD WIRES
D / OR	EXIST. STORM PIPE
D / OR	PROP. STORM PIPE
S / OR	EXIST. SANITARY PIPE
S / OR	PROP. SANITARY PIPE
	PROP. DIRECTION OF DRAINAGE FLOW ARROW
123.45	EXIST. ELEVATION
x TC 123.45	EXIST. TOP OF CURB ELEVATION
x G 122.95	EXIST. GRADE ELEVATION
TW XXX.XX GH XXX.XX GL XXX.XX	PROP. TOP OF WALL ELEVATION PROP. GRADE ON HIGH SIDE OF WALL PROP. GRADE ON LOW SIDE OF WALL
TC XXX.XX G XXX.XX	PROP. TOP OF CURB & FINISHED GRADE ELEV.
	EXIST. AREA/YARD LIGHT
	PROP. AREA/YARD LIGHT
C/O	PROP. CLEAN OUT
	EXIST. INLET
	PROP. INLET
	EXIST. MANHOLE
	PROP. STORM MANHOLE
	PROP. SANITARY MANHOLE
	EXIST. HYDRANT
	PROP. HYDRANT
	EXIST. UTILITY VALVE
	PROP. UTILITY VALVE
	EXIST. UTILITY POLE
	PROP. UTILITY POLE
	EXIST. TRAFFIC SIGNAL
	PROP. TRAFFIC SIGNAL

30 0 15 30 60 120

GRAPHIC SCALE — 1 INCH = 30 FEET

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PROJECT No.:	J201029
DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-DRN-0B

PROJECT:
PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

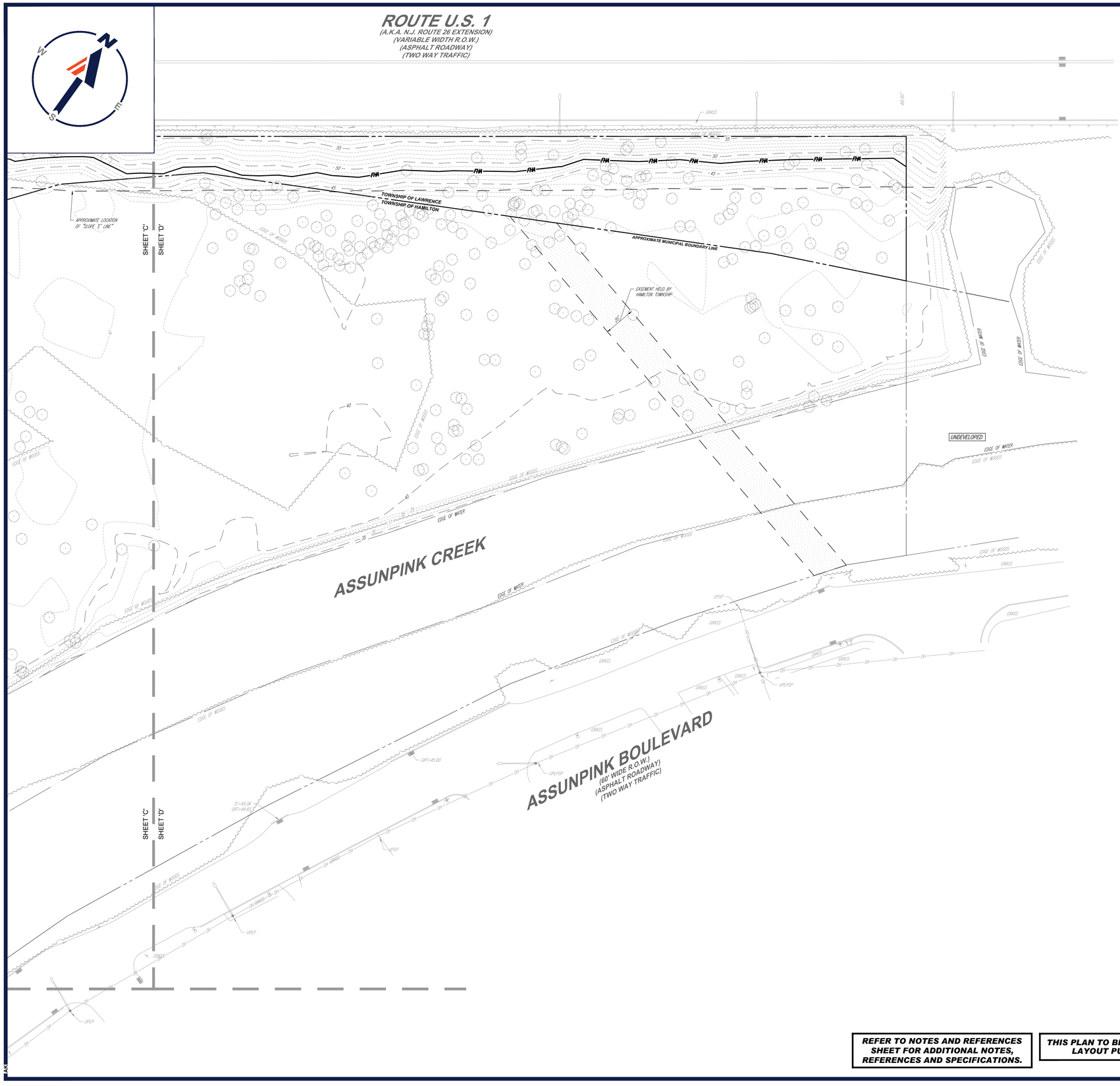
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DELAWARE LICENSE No. 17111
OHIO LICENSE No. 78297

SHEET TITLE:
DRAINAGE PLAN 'C'

SHEET NUMBER:
C-407

ORG. DATE - 02/01/2022



GRAPHIC LEGEND
(U010102 - 03/12/12)

- PROPERTY LINE
- EXIST. CONTOUR & ELEVATION
- PROP. FINISH GRADE CONTOUR & ELEVATION
- EXIST. WATER
- PROP. WATER
- EXIST. GAS
- PROP. GAS
- EXIST. ELECTRIC/TELEPHONE
- PROP. ELECTRIC/TELEPHONE
- EXIST. ELECTRIC/TELEPHONE/CABLE
- PROP. ELECTRIC/TELEPHONE/CABLE
- EXIST. OVERHEAD WIRES
- PROP. OVERHEAD WIRES
- EXIST. STORM PIPE
- PROP. STORM PIPE
- EXIST. SANITARY PIPE
- PROP. SANITARY PIPE
- PROP. DIRECTION OF DRAINAGE FLOW ARROW
- EXIST. ELEVATION
- EXIST. TOP OF CURB ELEVATION
- EXIST. GRADE ELEVATION
- PROP. TOP OF WALL ELEVATION / PROP. GRADE ON HIGH SIDE OF WALL / PROP. GRADE ON LOW SIDE OF WALL
- PROP. TOP OF CURB & FINISHED GRADE ELEV.
- EXIST. AREA/YARD LIGHT
- PROP. AREA/YARD LIGHT
- PROP. CLEAN OUT
- EXIST. INLET
- PROP. INLET
- EXIST. MANHOLE
- PROP. STORM MANHOLE
- PROP. SANITARY MANHOLE
- EXIST. HYDRANT
- PROP. HYDRANT
- EXIST. UTILITY VALVE
- PROP. UTILITY VALVE
- EXIST. UTILITY POLE
- PROP. UTILITY POLE
- EXIST. TRAFFIC SIGNAL
- PROP. TRAFFIC SIGNAL

REFER TO NOTES AND REFERENCES SHEET FOR ADDITIONAL NOTES, REFERENCES AND SPECIFICATIONS.

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30 0 15 30 60 120

GRAPHIC SCALE — 1 INCH = 30 FEET

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AXREF:

BOHLER

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LAND SURVEYING
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DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-DRN-0B

PROJECT:

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LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
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TAX MAP SHEET #6
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TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

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NJ CERT. OF AUTHORIZATION NO: 24GA28161700 & MH000122

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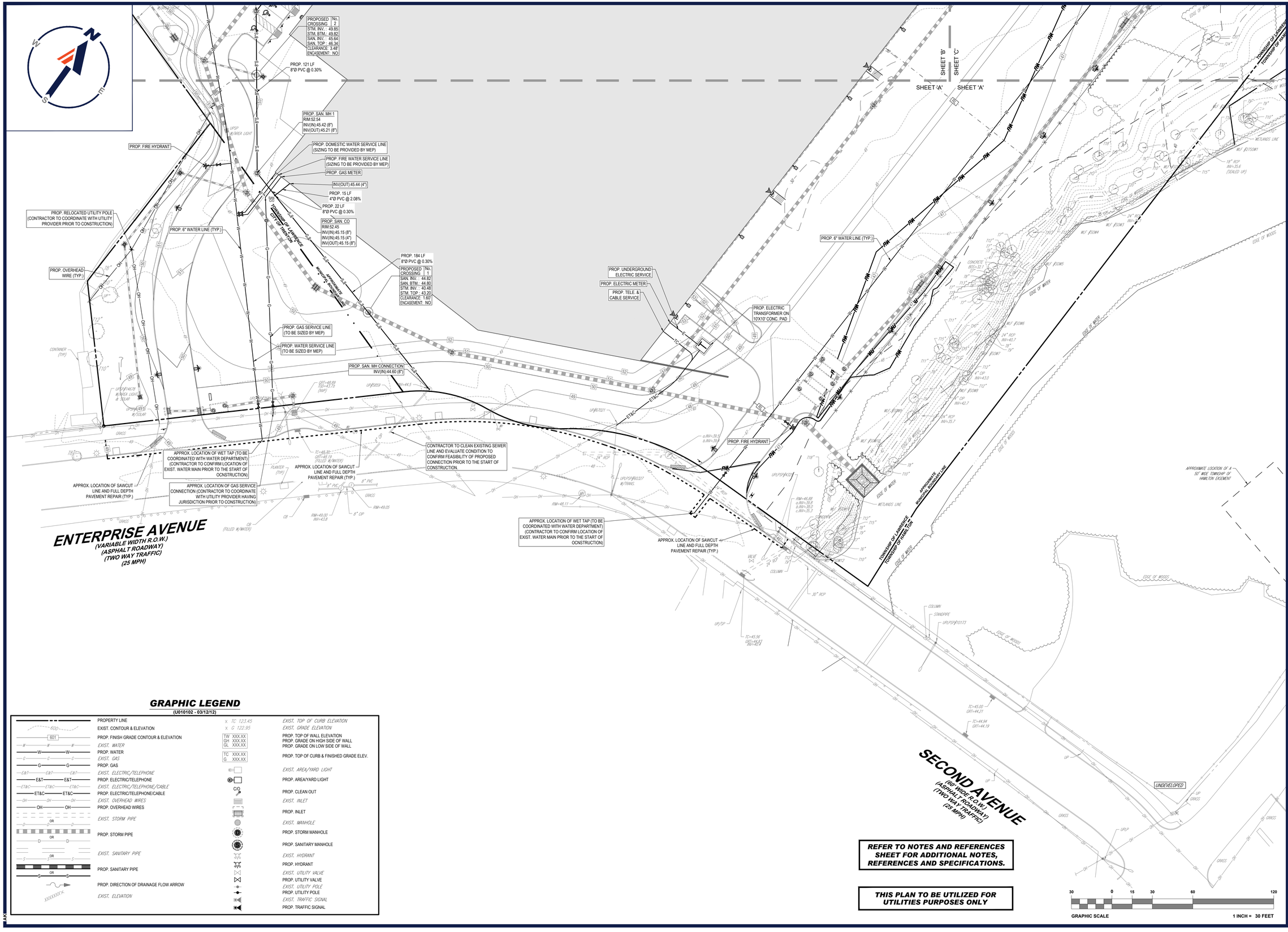
SHEET TITLE:

DRAINAGE PLAN 'D'

SHEET NUMBER:

C-408

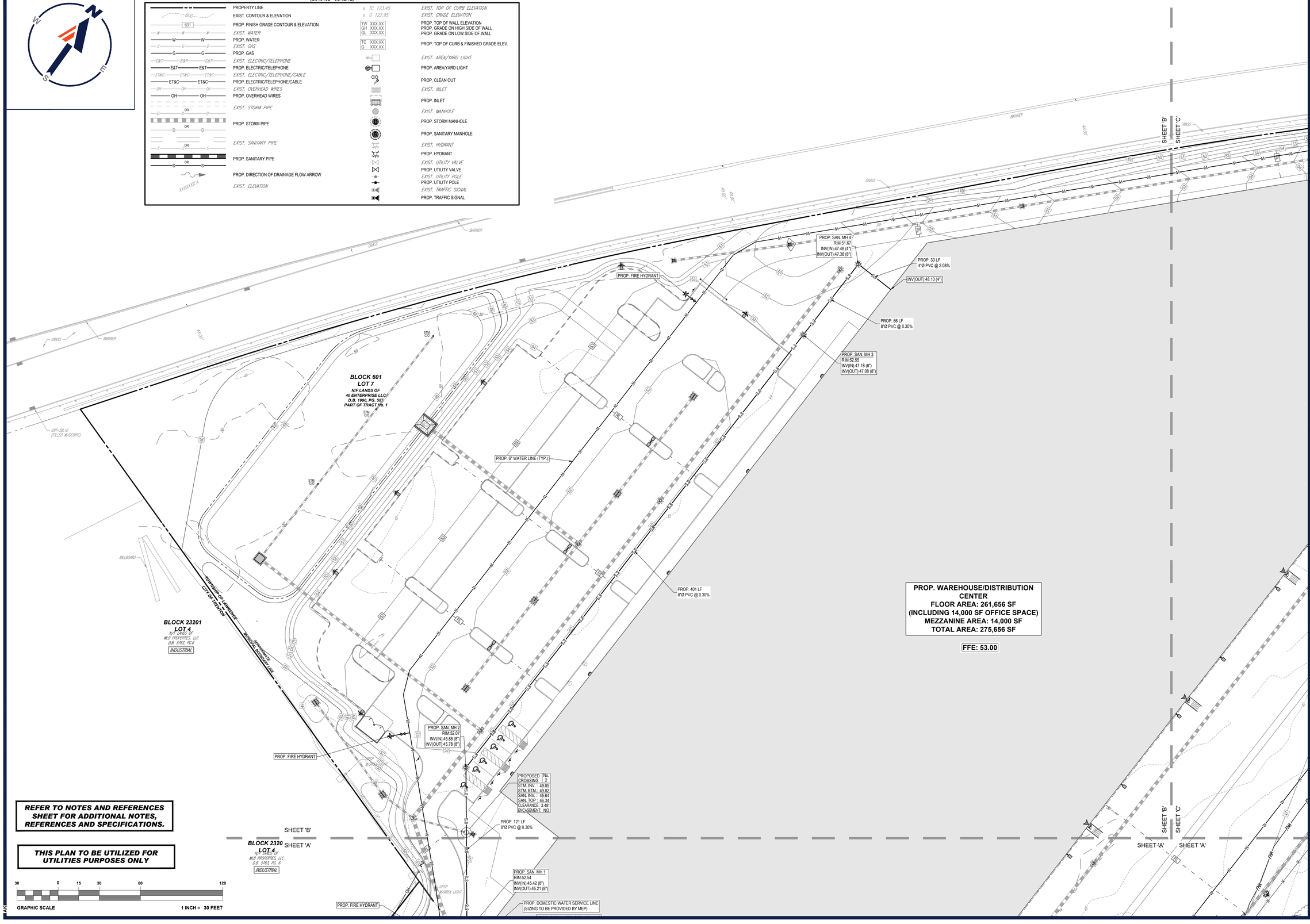
ORG. DATE - 02/01/2022


PROPOSED CROSSING No. 2
STM. INV.: 49.85
STM. BTM.: 49.82
SAN. INV.: 45.64
SAN. TOP: 46.34
CLEARANCE: 3.48'
ENCASEMENT: NO
PROP. 121 LF 8"Ø PVC @ 0.30%
PROP. SAN. MH 1
RIM=52.54
INV(IN)=45.42 (8")
INV(OUT)=45.21 (8")
PROP. FIRE HYDRANT
PROP. DOMESTIC WATER SERVICE LINE (SIZING TO BE PROVIDED BY MEP)
PROP. FIRE WATER SERVICE LINE (SIZING TO BE PROVIDED BY MEP)
PROP. GAS METER
INV(OUT)=45.44 (4")
PROP. 15 LF 4"Ø PVC @ 2.08%
PROP. 22 LF 8"Ø PVC @ 0.30%
PROP. SAN. CO
RIM=52.45
INV(IN)=45.15 (8")
INV(IN)=45.15 (4")
INV(OUT)=45.15 (8")
PROP. 184 LF 8"Ø PVC @ 0.30%
PROPOSED CROSSING No. 1
SAN. INV.: 44.82
SAN. BTM.: 44.80
STM. INV.: 43.48
STM. TOP: 43.20
CLEARANCE: 1.60'
ENCASEMENT: NO
PROP. RELOCATED UTILITY POLE (CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER PRIOR TO CONSTRUCTION)
PROP. 6" WATER LINE (TYP.)
PROP. OVERHEAD WIRE (TYP.)
PROP. GAS SERVICE LINE (TO BE SIZED BY MEP)
PROP. WATER SERVICE LINE (TO BE SIZED BY MEP)
PROP. SAN. MH CONNECTION INV(IN)=44.60 (8")
APPROX. LOCATION OF WET TAP (TO BE COORDINATED WITH WATER DEPARTMENT) (CONTRACTOR TO CONFIRM LOCATION OF EXIST. WATER MAIN PRIOR TO THE START OF CONSTRUCTION)
APPROX. LOCATION OF SAWCUT LINE AND FULL DEPTH PAVEMENT REPAIR (TYP.)
APPROX. LOCATION OF GAS SERVICE CONNECTION (CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER HAVING JURISDICTION PRIOR TO CONSTRUCTION)
CONTRACTOR TO CLEAN EXISTING SEWER LINE AND EVALUATE CONDITION TO CONFIRM FEASIBILITY OF PROPOSED CONNECTION PRIOR TO THE START OF CONSTRUCTION.
APPROX. LOCATION OF SAWCUT LINE AND FULL DEPTH PAVEMENT REPAIR (TYP.)
APPROX. LOCATION OF WET TAP (TO BE COORDINATED WITH WATER DEPARTMENT) (CONTRACTOR TO CONFIRM LOCATION OF EXIST. WATER MAIN PRIOR TO THE START OF CONSTRUCTION)
PROP. UNDERGROUND ELECTRIC SERVICE
PROP. ELECTRIC METER
PROP. TELE. & CABLE SERVICE
PROP. ELECTRIC TRANSFORMER ON 10'X10' CONC. PAD
PROP. 6" WATER LINE (TYP.)
PROP. FIRE HYDRANT
SHEET 'B'
SHEET 'C'
SHEET 'A'
SHEET 'A'
TOWNSHIP OF LAWRENCE
TOWNSHIP OF HAMILTON
APPROXIMATE MUNICIPAL BOUNDARY LINE
APPROXIMATE LOCATION OF A 50' WIDE TOWNSHIP OF HAMILTON EASEMENT
ENTERPRISE AVENUE
(VARIABLE WIDTH R.O.W.)
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)
(25 MPH)
SECOND AVENUE
(60' WIDE R.O.W.)
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)
(25 MPH)
UNDEVELOPED
EDGE OF WOODS
WETLANDS LINE
EDGE OF WATER
WLF #SOW1
WLF #SOW2
WLF #SOW3
WLF #SOW4
WLF #SOW5
WLF #SOW6
WLF #SOW7
WLF #SOW8
WLF #SOW9
WLF #SOW10
WLF #SOW11
WLF #SOW12
WLF #SOW13
WLF #SOW14
WLF #SOW15
WLF #SOW16
WLF #SOW17
WLF #SOW18
WLF #SOW19
WLF #SOW20
WLF

GRAPHIC LEGEND

(U010102 - 03/12/12)

	PROPERTY LINE	x TC 123.45	EXIST. TOP OF CURB ELEVATION
600	EXIST. CONTOUR & ELEVATION	x G 122.95	EXIST. GRADE ELEVATION
601	PROP. FINISH GRADE CONTOUR & ELEVATION	TW XXX.XX GH XXX.XX GL XXX.XX	PROP. TOP OF WALL ELEVATION PROP. GRADE ON HIGH SIDE OF WALL PROP. GRADE ON LOW SIDE OF WALL
W W W	EXIST. WATER		
W W W	PROP. WATER	TC XXX.XX G XXX.XX	PROP. TOP OF CURB & FINISHED GRADE ELEV.
G G G	EXIST. GAS		
G G	PROP. GAS		EXIST. AREA/YARD LIGHT
E&T E&T E&T	EXIST. ELECTRIC/TELEPHONE		
E&T E&T	PROP. ELECTRIC/TELEPHONE		PROP. AREA/YARD LIGHT
ET&C ET&C ET&C	EXIST. ELECTRIC/TELEPHONE/CABLE	C/O	
ET&C ET&C	PROP. ELECTRIC/TELEPHONE/CABLE		PROP. CLEAN OUT
OH OH OH	EXIST. OVERHEAD WIRES		EXIST. INLET
OH OH	PROP. OVERHEAD WIRES		PROP. INLET
D D OR	EXIST. STORM PIPE		EXIST. MANHOLE
D D OR	PROP. STORM PIPE		PROP. STORM MANHOLE
S S OR	EXIST. SANITARY PIPE		PROP. SANITARY MANHOLE
S S OR	PROP. SANITARY PIPE		EXIST. HYDRANT
			PROP. HYDRANT
			EXIST. UTILITY VALVE
	PROP. DIRECTION OF DRAINAGE FLOW ARROW		PROP. UTILITY VALVE
			EXIST. UTILITY POLE
XXXXXXXX	EXIST. ELEVATION		PROP. UTILITY POLE
			EXIST. TRAFFIC SIGNAL
			PROP. TRAFFIC SIGNAL



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PROJECT No.:	J201029
DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-UTL-0B

PROJECT:

PRELIMINARY & FINAL MAJOR SITE PLANS

FOR

LAWRENCE LOGISTICS CENTER

PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER

40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE
REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

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BOHLER ENGINEERING NJ, LLC
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Phone: (908) 668-8300
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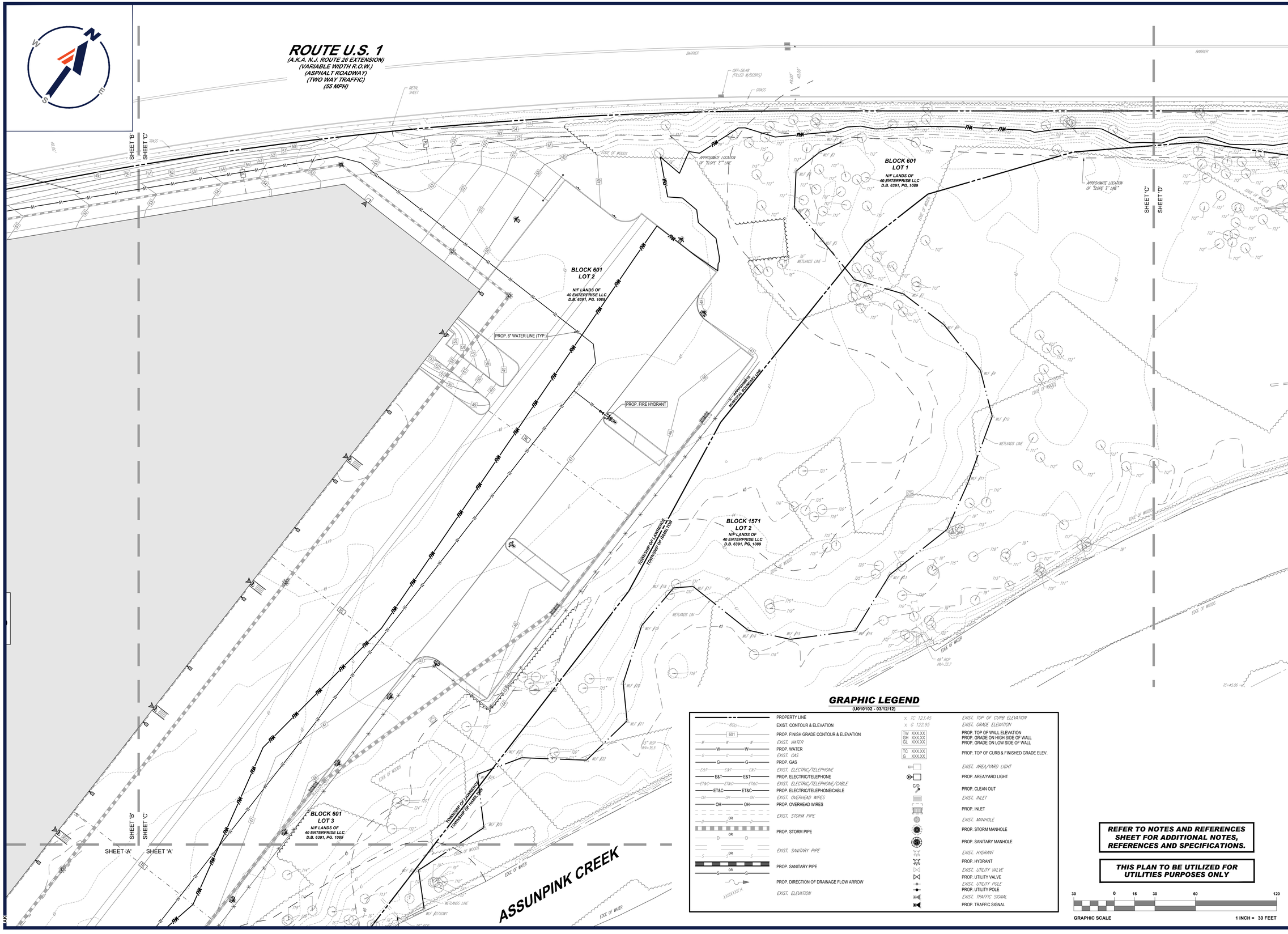
SHEET TITLE:

UTILITIES PLAN 'B'

SHEET NUMBER:

C-502

ORG. DATE - 02/01/2022



GRAPHIC LEGEND

(U010102 - 03/12/12)

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600	EXIST. CONTOUR & ELEVATION	x G 122.95	EXIST. GRADE ELEVATION
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W	EXIST. WATER		
W	PROP. WATER	TC XXX.XX G XXX.XX	PROP. TOP OF CURB & FINISHED GRADE ELEV.
G	EXIST. GAS		
G	PROP. GAS		EXIST. AREA/YARD LIGHT
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E&T	PROP. ELECTRIC/TELEPHONE		PROP. AREA/YARD LIGHT
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OH	EXIST. OVERHEAD WIRES		
OH	PROP. OVERHEAD WIRES		PROP. INLET
OR	EXIST. STORM PIPE		EXIST. MANHOLE
OR	PROP. STORM PIPE		PROP. STORM MANHOLE
OR	EXIST. SANITARY PIPE		PROP. SANITARY MANHOLE
OR	PROP. SANITARY PIPE		EXIST. HYDRANT
			PROP. HYDRANT
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	PROP. DIRECTION OF DRAINAGE FLOW ARROW		PROP. UTILITY VALVE
			EXIST. UTILITY POLE
XXXXXX.X	EXIST. ELEVATION		PROP. UTILITY POLE
			EXIST. TRAFFIC SIGNAL
			PROP. TRAFFIC SIGNAL

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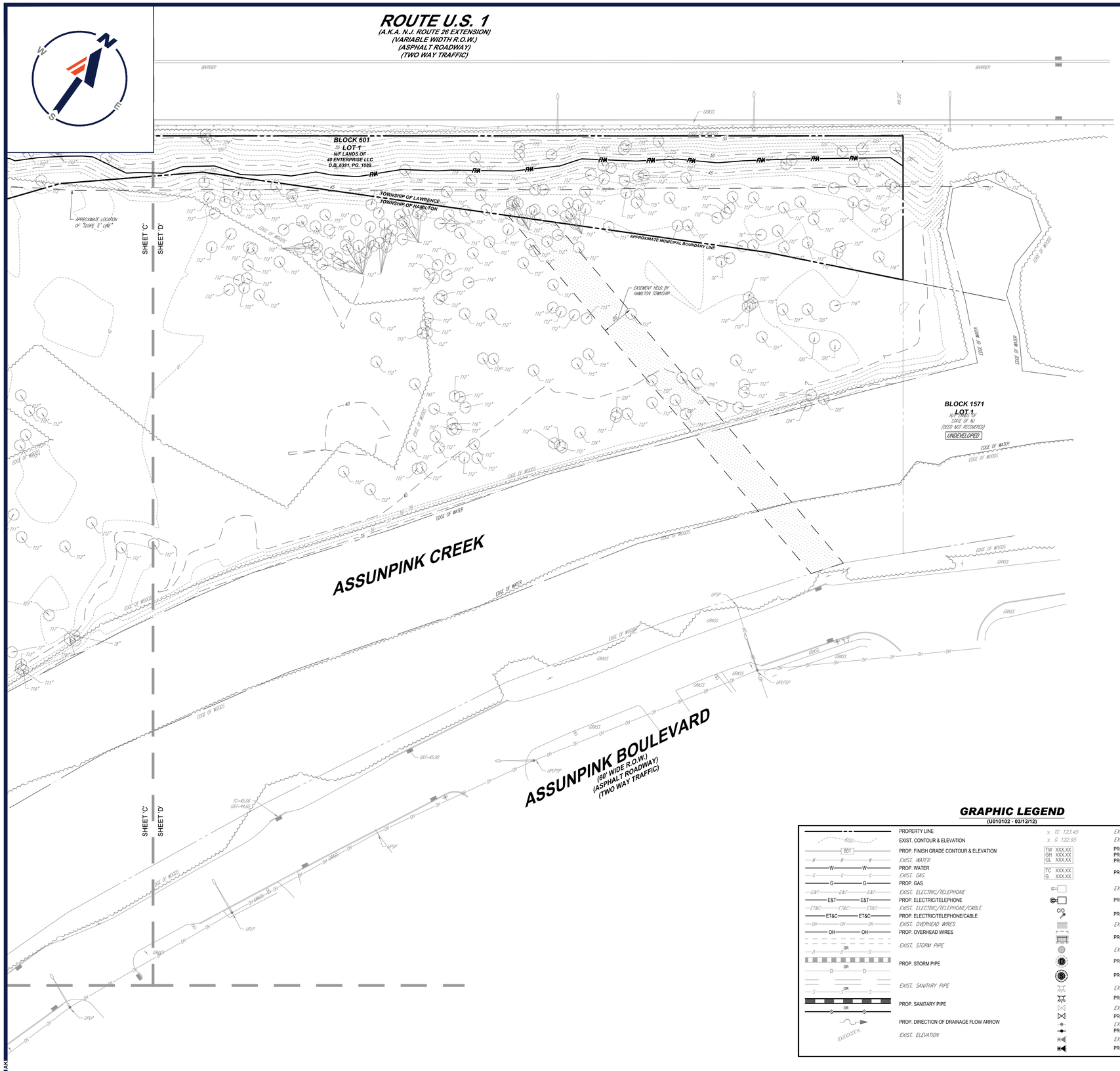
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G	EXIST. GAS PROP. GAS		EXIST. AREA/YARD LIGHT
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D	EXIST. STORM PIPE PROP. STORM PIPE		PROP. INLET
S	EXIST. SANITARY PIPE PROP. SANITARY PIPE		EXIST. MANHOLE PROP. STORM MANHOLE PROP. SANITARY MANHOLE
	PROP. DIRECTION OF DRAINAGE FLOW ARROW		EXIST. HYDRANT PROP. HYDRANT
XXXXXXX	EXIST. ELEVATION		EXIST. UTILITY VALVE PROP. UTILITY VALVE
			EXIST. UTILITY POLE PROP. UTILITY POLE
			EXIST. TRAFFIC SIGNAL PROP. TRAFFIC SIGNAL

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LAWRENCE LOGISTICS CENTER

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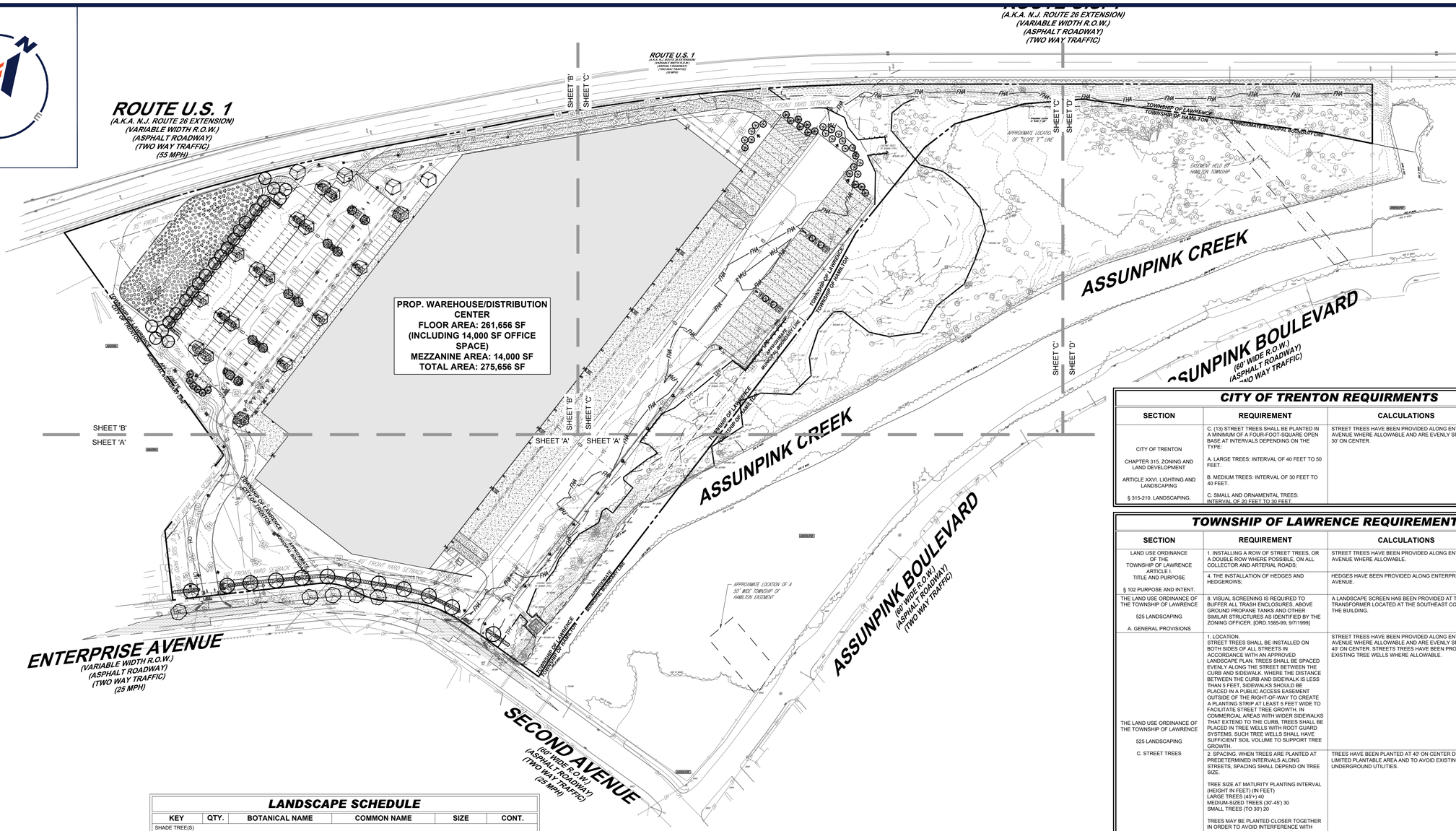
SHEET TITLE:

UTILITIES PLAN 'D'

SHEET NUMBER:

C-504

ORG. DATE - 02/01/2022



CITY OF TRENTON REQUIRMENTS

SECTION	REQUIREMENT	CALCULATIONS	COMPLIANCE
CITY OF TRENTON CHAPTER 315. ZONING AND LAND DEVELOPMENT ARTICLE XXVI. LIGHTING AND LANDSCAPING § 315-210. LANDSCAPING.	C. (13) STREET TREES SHALL BE PLANTED IN A MINIMUM OF A FOUR-FOOT-SQUARE OPEN BASE AT INTERVALS DEPENDING ON THE TYPE: A. LARGE TREES: INTERVAL OF 40 FEET TO 50 FEET. B. MEDIUM TREES: INTERVAL OF 30 FEET TO 40 FEET. C. SMALL AND ORNAMENTAL TREES: INTERVAL OF 20 FEET TO 30 FEET.	STREET TREES HAVE BEEN PROVIDED ALONG ENTERPRISE AVENUE WHERE ALLOWABLE AND ARE EVENLY SPACED AT 30' ON CENTER.	COMPLIES

TOWNSHIP OF LAWRENCE REQUIREMENTS

SECTION	REQUIREMENT	CALCULATIONS	COMPLIANCE
LAND USE ORDINANCE OF THE TOWNSHIP OF LAWRENCE ARTICLE I TITLE AND PURPOSE § 102 PURPOSE AND INTENT.	1. INSTALLING A ROW OF STREET TREES, OR A DOUBLE ROW WHERE POSSIBLE, ON ALL COLLECTOR AND ARTERIAL ROADS; 4. THE INSTALLATION OF HEDGES AND HEDGEROWS;	STREET TREES HAVE BEEN PROVIDED ALONG ENTERPRISE AVENUE WHERE ALLOWABLE. HEDGES HAVE BEEN PROVIDED ALONG ENTERPRISE AVENUE.	COMPLIES COMPLIES
THE LAND USE ORDINANCE OF THE TOWNSHIP OF LAWRENCE 525 LANDSCAPING A. GENERAL PROVISIONS	8. VISUAL SCREENING IS REQUIRED TO BUFFER ALL TRASH ENCLOSURES, ABOVE GROUND PROPANE TANKS AND OTHER SIMILAR STRUCTURES AS IDENTIFIED BY THE ZONING OFFICER. [ORD.1585-99, 9/7/1999]	A LANDSCAPE SCREEN HAS BEEN PROVIDED AT THE TRANSFORMER LOCATED AT THE SOUTHEAST CORNER OF THE BUILDING.	COMPLIES
THE LAND USE ORDINANCE OF THE TOWNSHIP OF LAWRENCE 525 LANDSCAPING C. STREET TREES	1. LOCATION. STREET TREES SHALL BE INSTALLED ON BOTH SIDES OF ALL STREETS IN ACCORDANCE WITH AN APPROVED LANDSCAPE PLAN. TREES SHALL BE SPACED EVENLY ALONG THE STREET BETWEEN THE CURB AND SIDEWALK, WHERE THE DISTANCE BETWEEN THE CURB AND SIDEWALK IS LESS THAN 5 FEET, SIDEWALKS SHOULD BE PLACED IN A PUBLIC ACCESS EASEMENT OUTSIDE OF THE RIGHT-OF-WAY TO CREATE A PLANTING STRIP AT LEAST 5 FEET WIDE TO FACILITATE STREET TREE GROWTH. IN COMMERCIAL AREAS WITH WIDER SIDEWALKS THAT EXTEND TO THE CURB, TREES SHALL BE PLACED IN TREE WELLS WITH ROOT GUARD SYSTEMS. SUCH TREE WELLS SHALL HAVE SUFFICIENT SOIL VOLUME TO SUPPORT TREE GROWTH.	STREET TREES HAVE BEEN PROVIDED ALONG ENTERPRISE AVENUE WHERE ALLOWABLE AND ARE EVENLY SPACED AT 40' ON CENTER. STREETS TREES HAVE BEEN PROVIDED IN EXISTING TREE WELLS WHERE ALLOWABLE.	COMPLIES
	2. SPACING. WHEN TREES ARE PLANTED AT PREDETERMINED INTERVALS ALONG STREETS, SPACING SHALL DEPEND ON TREE SIZE. TREE SIZE AT MATURITY PLANTING INTERVAL (HEIGHT IN FEET) (IN FEET) LARGE TREES (45'+) 40 MEDIUM-SIZED TREES (30'-45') 30 SMALL TREES (TO 30') 20 TREES MAY BE PLANTED CLOSER TOGETHER IN ORDER TO AVOID INTERFERENCE WITH UTILITIES, ROADWAYS, SIDEWALKS, SIGHT EASEMENTS, AND STREET LIGHTS.	TREES HAVE BEEN PLANTED AT 40' ON CENTER DUE TO LIMITED PLANTABLE AREA AND TO AVOID EXISTING UNDERGROUND UTILITIES.	COMPLIES
THE LAND USE ORDINANCE OF THE TOWNSHIP OF LAWRENCE 525 LANDSCAPING L. PARKING AND LOADING AREA LANDSCAPING	1. THE MINIMUM WIDTH OF LANDSCAPE ISLANDS SHALL BE 8 FEET ON THE SIDE OF PARKING SPACES AND 10 FEET BETWEEN PARKING BAYS. IF SIDEWALKS ARE INCORPORATED THROUGH THE LONG AXIS OF THE LANDSCAPE ISLANDS, THEIR WIDTH SHALL BE ADDED TO THESE REQUIREMENTS. WHERE THE PARKING LOT DESIGN WILL RESULT IN PEDESTRIANS CUTTING PERPENDICULARLY THROUGH LANDSCAPE ISLANDS, SIDEWALKS SHALL BE INSTALLED AT REGULAR INTERVALS THROUGH ITS SHORT AXIS.	LANDSCAPE ISLANDS ARE A MINIMUM OF 9 FEET WIDE.	COMPLIES
	2. LANDSCAPE ISLANDS SHALL BE PLANTED WITH A COMBINATION OF DECIDUOUS TREES, EVERGREEN AND DECIDUOUS SHRUBS, AND GROUND COVER AT THE RATE OF 6 LARGE OR MEDIUM TREES, 4 SMALL OR ORNAMENTAL TREES AND 60 SHRUBS PER 100 LINEAL FEET ALONG THE LONG AXIS OF THE ISLAND. TREES REQUIRED TO BE REPLACED FROM SITE CLEARING PURSUANT TO §541 MAY BE PLACED IN SUCH LANDSCAPE ISLANDS.	LANDSCAPE ISLANDS: 542.4 LF REQUIRED: 542.4 / 100 = 5.424 5.424 X 6 = 32.54 OR 33 LARGE/MEDIUM TREES 5.424 X 4 = 21.69 OR 22 SMALL ORNAMENTAL TREES 5.424 X 60 = 325.44 OR 326 SHRUBS PROPOSED: 33 LARGE TREES 22 ORNAMENTAL TREES 326 SHRUBS	COMPLIES
	3. PARKING AND LOADING AREAS SHALL BE SCREENED BY A COMBINATION OF BERMS, HEDGES, FENCES OR WALLS. THE MINIMUM SCREENING HEIGHT AT PLANTING SHALL BE 3 FEET AND SHALL HAVE A HEIGHT OF AT LEAST 4 FEET WITHIN THREE YEARS OF INSTALLATION. LOADING DOCK AREAS SHALL BE SCREENED WITH A MINIMUM HEIGHT OF 8 FEET AT PLANTING AND SHALL ACHIEVE A HEIGHT OF AT LEAST 12 FEET FIVE YEARS AFTER INSTALLATION. LAND USE MITIGATION BUFFERS LAND USE ORDINANCE LAWRENCE TOWNSHIP, MERCER COUNTY §525 227 PURSUANT TO §525 H MAY BE USED TO MEET THESE REQUIREMENTS.	PARKING AND LOADING AREAS HAVE BEEN SCREENED BY DECIDUOUS AND EVERGREEN TREES AND SHRUBS. EXISTING WOODED AREAS ALONG THE NORTHERN AND EASTERN PORTIONS OF THE SITE ARE TO REMAIN. -(REFER TO LANDSCAPE SCHEDULE FOR PROPOSED PLANT SIZES)-	COMPLIES

TOWNSHIP OF LAWRENCE REQUIREMENTS (CONTINUED)

SECTION	REQUIREMENT	CALCULATIONS	COMPLIANCE
THE LAND USE ORDINANCE OF THE TOWNSHIP OF LAWRENCE 541 TREE REMOVAL AND TREE CUTTING	H(1)(A). REQUIRED TREE DENSITY AND REPLACEMENT FROM DEVELOPMENT. EACH LOT FOR WHICH A MAJOR SITE PLAN APPLICATION AND APPROVAL PURSUANT TO ARTICLE VIII IS REQUIRED SHALL HAVE, AFTER DEVELOPMENT, A MINIMUM DENSITY OF TREES PER ACRE OF THE GROSS AREA OF THE TRACT. THE NUMBER OF TREES REQUIRED TO ACHIEVE THE MINIMUM DENSITY REQUIRED SHALL BE AS SET FORTH IN THIS SUBSECTION. IF A SITE INITIALLY LACKS THE SUFFICIENT DENSITY OF TREES REQUIRED OR IF SITE CLEARING REDUCES THE TREE DENSITY TO BELOW THE MINIMUM REQUIRED, THE DEVELOPER SHALL PLANT ADDITIONAL TREES TO MEET THE MINIMUM. THESE TREES ARE TERMED "REPLACEMENT" TREES REGARDLESS OF WHETHER THEY ARE FOR INITIAL PLANTING TO MEET MINIMUM REQUIREMENTS OR FOR REPLANTING AFTER SITE CLEARING HAS OCCURRED. TREES OTHERWISE REQUIRED TO BE PLANTED FOR LANDSCAPE BUFFER AREAS OR PARKING LOTS PURSUANT TO §525, AS THE CASE MAY BE, MAY BE COUNTED TOWARDS THE REQUIRED TREE DENSITY. THE PLANTING OF REPLACEMENT TREES SHALL BE REQUIRED UNDER THE FOLLOWING CONDITIONS: TO ESTABLISH THE MINIMUM TREE DENSITY REQUIREMENTS FOR THE SITE.	LOT SIZE: 16.447 ACRES REQUIRED TREE DENSITY: 16.447 ACRES * 15 = 246.7 EXISTING TREE DENSITY CALIPER / DENSITY UNITS / * # OF TREES / = / EXIST. TREE DENSITY 8-9" / .5 / 19 / 9.5 10" / .6 / 11 / 6.6 11" / .7 / 3 / 2.1 12" / .8 / 96 / 76.8 13" / .9 / 8 / 7.2 14" / 1.1 / 2 / 2.2 15" / 1.2 / 13 / 15.6 16" / 1.4 / 4 / 5.6 18" / 1.8 / 2 / 3.6 19" / 2.0 / 2 / 4.0 20" / 2.2 / 5 / 11.0 22" / 2.6 / 2 / 5.2 24" / 3.1 / 3 / 9.3 25" / 3.4 / 1 / 3.4 30" / 4.9 / 1 / 4.9 32" / 5.6 / 1 / 5.6 TOTAL: 172.6 MODIFIED TREE DENSITY REQUIREMENT: RTD - ETD = REPLACEMENT TREE UNITS 246.7 - 172.6 = 74.1 REPLACEMENT TREE UNITS PROPOSED TREE DENSITY CALIPER / DENSITY UNITS / * # OF TREES / = / PROP. TREE DENSITY 2 1/2-3" / .5 / 74 / 37 8-10' HT. / 1.3 / 35 / 45.5 TOTAL: 82.5 TOTAL EXISTING TREE DENSITY: 172.6 TOTAL REPLACEMENT TREE UNITS: 82.5 TOTAL PROPOSED: 255.1	COMPLIES

LANDSCAPE SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	CONT.
SHADE TREE(S)					
ARB	10	ACER RUBRUM 'BOWHALL'	BOWHALL RED MAPLE	2 1/2-3" CAL.	B+B
ARN	5	ACER RUBRUM 'NORTHWOOD'	NORTHWOOD RED MAPLE	2 1/2-3" CAL.	B+B
AROG	12	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2 1/2-3" CAL.	B+B
LSS	4	LIQUIDAMBAR STYRACIFLUA 'SLENDER SILHOUETTE'	SLENDER SILHOUETTE SWEETGUM	2 1/2-3" CAL.	B+B
TCG	21	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LINDEN	2 1/2-3" CAL.	B+B
SUBTOTAL:	52				
ORNAMENTAL TREE(S)					
BN	22	BETULA NIGRA	MULTI STEM RIVER BIRCH	12-14'	B+B
SUBTOTAL:	22				
EVERGREEN TREE(S)					
IO	19	ILEX OPACA	AMERICAN HOLLY	8-10'	B+B
PS	16	PINUS STROBUS	EASTERN WHITE PINE	8-10'	B+B
SUBTOTAL:	35				
DECIDUOUS SHRUB(S)					
CAR	59	CLETHRA ALNIFOLIA 'ROSEA'	PINK SUMMERSWEET CLETHRA	24-30"	CONTAINER
FG	112	FOTHERGILLA GARDENII	DWARF FOTHERGILLA	24-30"	CONTAINER
IVRS	105	ILEX VERTICILLATA 'RED SPRITE'	RED SPRITE WINTERBERRY HOLLY	30-36"	CONTAINER
LB	120	LINDERA BENZOIN	SPICEBUSH	30-36"	CONTAINER
VA	80	VACCINIUM ANGUSTIFOLIUM	LOWBUSH BLUEBERRY	15-18"	CONTAINER
VD	20	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	3-4'	B+B
SUBTOTAL:	496				
EVERGREEN SHRUB(S)					
IGC	157	ILEX GLABRA 'COMPACTA'	DWARF INKBERRY HOLLY	24-30"	CONTAINER
IGS	167	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	24-30"	CONTAINER
VR	99	VIBURNUM X RHYTIDOPHYLLUM	LEATHERLEAF VIBURNUM	3-4'	B+B
SUBTOTAL:	423				
GROUND COVER(S)					
JHBH	50	JUNIPERUS HORIZONTALIS 'BAR HARBOR'	BAR HARBOR CREEPING JUNIPER	15-18" SPRD.	CONTAINER
SUBTOTAL:	50				
LMV	10	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LILYTURF	1 GAL.	CONTAINER
RFG	14	RUDBECKIA FULGIDA 'GOLDSTURM'	GOLDSTURM/BLACK-EYED SUSAN	2 GAL.	CONTAINER
SUBTOTAL:	24				
ORNAMENTAL GRASS(ES)					
PAH	3	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	2 GAL.	CONTAINER
SUBTOTAL:	3				

NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN THE AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN WILL DICTATE.

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PROJECT No.:	J201029
DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-LND-0B

PROJECT:
PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE
REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

BOHLER
BOHLER ENGINEERING NJ, LLC
30 INDEPENDENCE BLVD., SUITE 200
WARREN, NJ 07059
Phone: (908) 668-8300
Fax: (908) 754-4401
www.BohlerEngineering.com
NJ CERT. OF AUTHORIZATION NO. 24GA28161700 & MH0001122

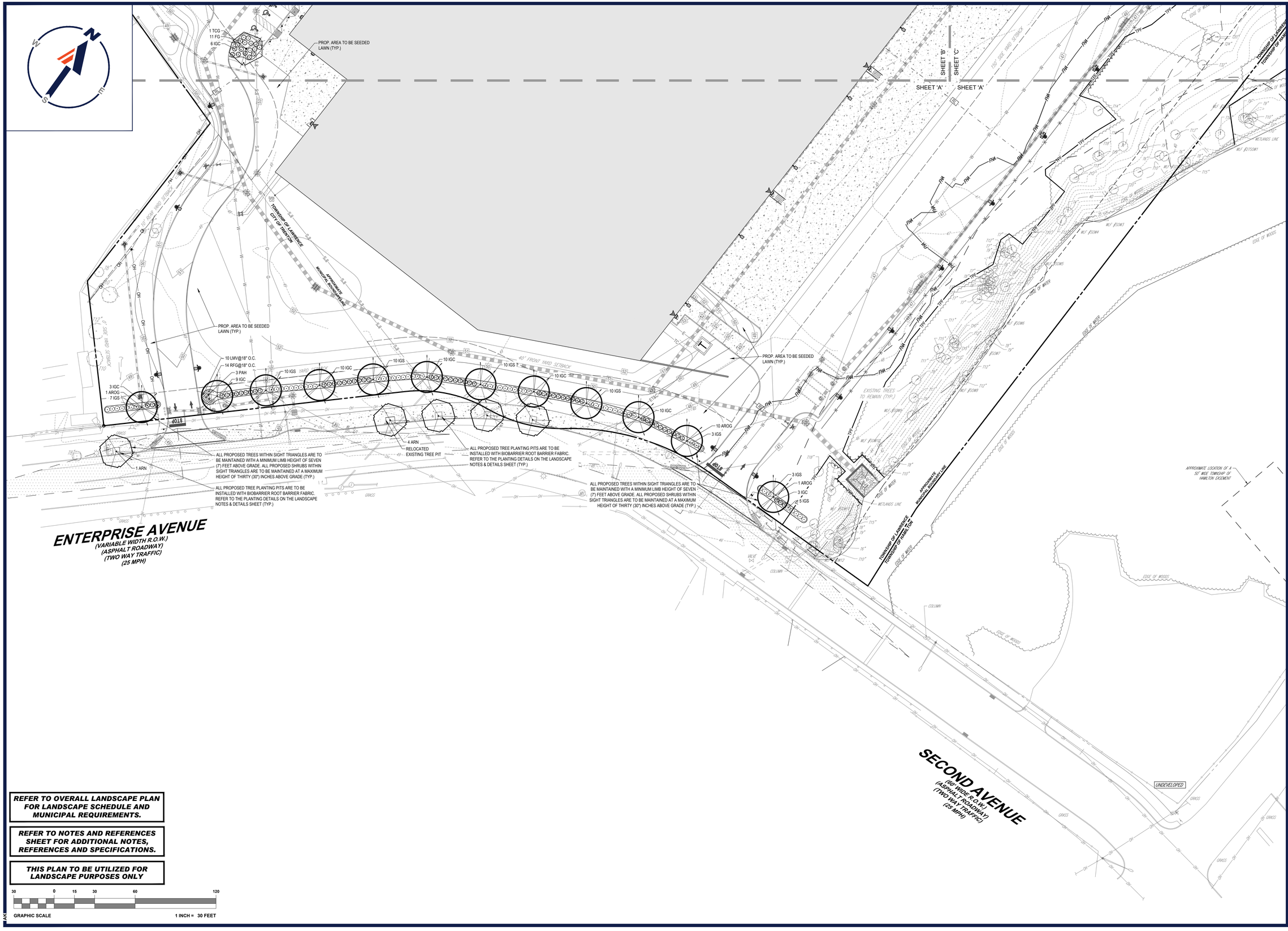
G.A. MASCOLA
LICENSED LANDSCAPE ARCHITECT
NEW JERSEY LICENSE No. 21AS00126900

SHEET TITLE:
OVERALL LANDSCAPE PLAN

SHEET NUMBER:
C-700

ORG. DATE - 02/01/2022

C:\2020\J201029\DRAWINGS\CURRENT DRAWINGS\SITE PLAN PACKAGE\J201029-LND-0B.....LAYOUT1 C-700 LAND



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J:\2020\J201029\DRAWINGS\CURRENT DRAWINGS\SITE PLAN PACKAGE\J201029-LND-0B.DWG — LAYOUT: C-701 LANDA

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FOR
LAWRENCE LOGISTICS CENTER
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TOWNSHIP OF LAWRENCE
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IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

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NJ CERT. OF AUTHORIZATION NO. 24GA28161700 & MH000122

G.A. MASCOLA
LICENSED LANDSCAPE ARCHITECT
NEW JERSEY LICENSE No. 21AS00126900

SHEET TITLE:
LANDSCAPE PLAN 'A'

SHEET NUMBER:
C-701

ORG. DATE - 02/01/2022

BIORETENTION BASIN CALCULATIONS

BIO-RETENTION BASIN SQUARE FOOTAGE:	REQUIRED NUMBER OF PLANTS:	PROPOSED NUMBER OF PLANTS:
21,033.9 SF (0.482 ACRES)	483 PLANTS	483 PLANTS

**CALCULATION: (21,033.9 SF (BIO-RETENTION BASIN) / 43560) x 1000 = 482.87 OR 483 PLANTINGS REQUIRED

BIORETENTION BASIN PLANTING SOIL BED MIX SPECIFICATIONS:

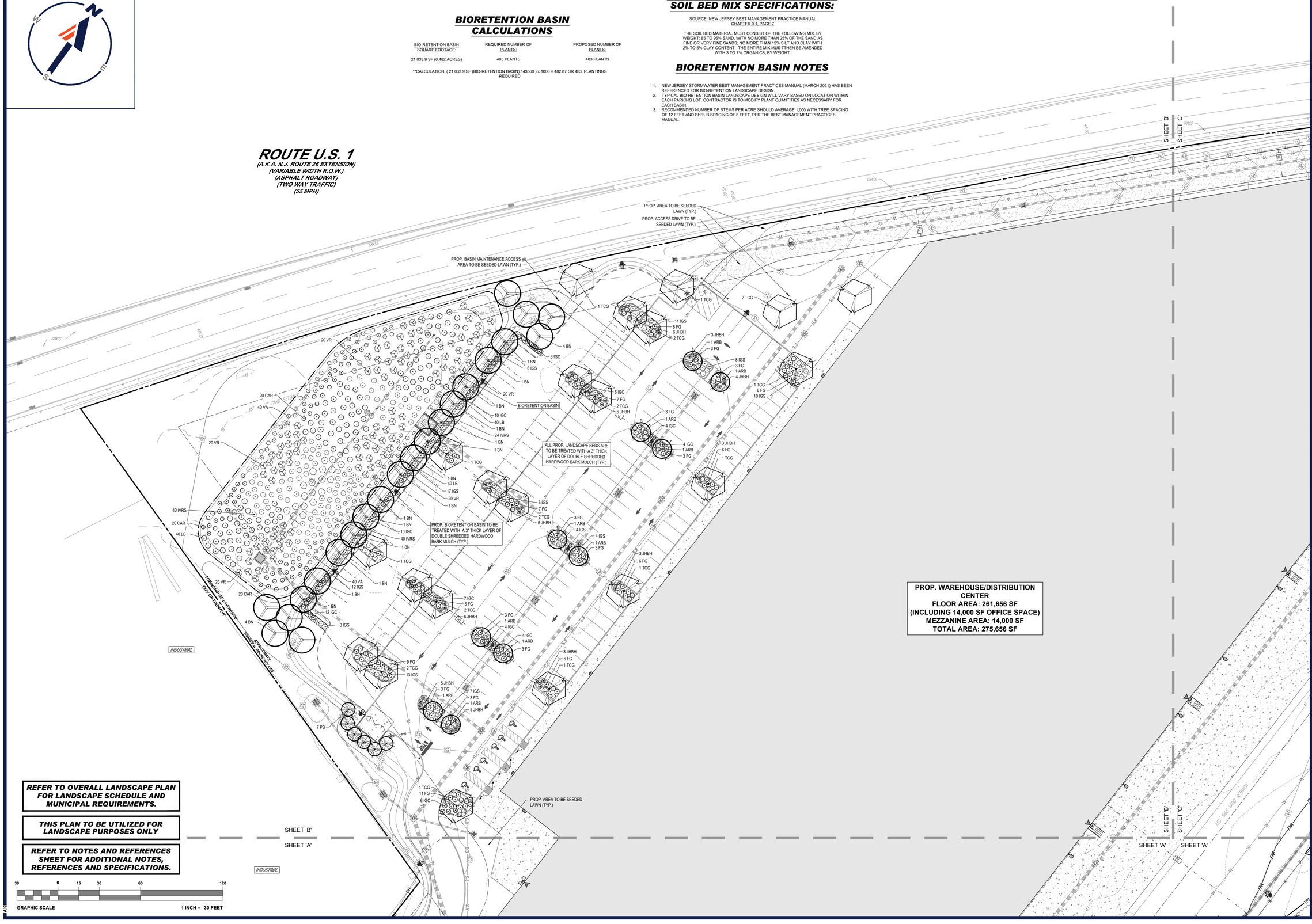
SOURCE: NEW JERSEY BEST MANAGEMENT PRACTICE MANUAL CHAPTER 9.1, PAGE 7

THE SOIL BED MATERIAL MUST CONSIST OF THE FOLLOWING MIX, BY WEIGHT: 85 TO 95% SAND, WITH NO MORE THAN 25% OF THE SAND AS FINE OR VERY FINE SANDS; NO MORE THAN 15% SILT AND CLAY WITH 2% TO 5% CLAY CONTENT. THE ENTIRE MIX MUS TTHEN BE AMENDED WITH 3 TO 7% ORGANICS, BY WEIGHT.

BIORETENTION BASIN NOTES

1. NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL (MARCH 2021) HAS BEEN REFERENCED FOR BIO-RETENTION LANDSCAPE DESIGN.
2. TYPICAL BIO-RETENTION BASIN LANDSCAPE DESIGN WILL VARY BASED ON LOCATION WITHIN EACH PARKING LOT. CONTRACTOR IS TO MODIFY PLANT QUANTITIES AS NECESSARY FOR EACH BASIN.
3. RECOMMENDED NUMBER OF STEMS PER ACRE SHOULD AVERAGE 1,000 WITH TREE SPACING OF 12 FEET AND SHRUB SPACING OF 8 FEET, PER THE BEST MANAGEMENT PRACTICES MANUAL.

ROUTE U.S. 1
(A.K.A. N.J. ROUTE 26 EXTENSION)
(VARIABLE WIDTH R.O.W.)
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)
(55 MPH)



REFER TO OVERALL LANDSCAPE PLAN FOR LANDSCAPE SCHEDULE AND MUNICIPAL REQUIREMENTS.

THIS PLAN TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY

REFER TO NOTES AND REFERENCES SHEET FOR ADDITIONAL NOTES, REFERENCES AND SPECIFICATIONS.

30 0 15 30 60 120
GRAPHIC SCALE 1 INCH = 30 FEET

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CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-LND-0B

PROJECT:
PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE REDEVELOPMENT AREA
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CITY OF TRENTON
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TAX MAP SHEET #232
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NJ CERT. OF AUTHORIZATION NO. 24GA28161700 & MH000122

G.A. MASCOLA
LICENSED LANDSCAPE ARCHITECT
NEW JERSEY LICENSE No. 21AS00126900

SHEET TITLE:
LANDSCAPE PLAN 'B'

SHEET NUMBER:
C-702

ORG. DATE - 02/01/2022

G:\2020\J201029\DRAWINGS\CURRENT DRAWINGS\SITE PLAN PACKAGE\J201029-LND-0B—LAYOUT C-702 LANDB
AKM

ROUTE U.S. 1
(A.K.A. N.J. ROUTE 26 EXTENSION)
(VARIABLE WIDTH R.O.W.)
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)
(55 MPH)

SHEET 'B'
SHEET 'C'
SHEET 'A'
SHEET 'D'

7 PS
13 IO
6 IO
3 PS
2 LSS
14 IGC
2 LSS
14 IGC

PROP. ACCESS DRIVE TO BE SEEDED LAWN (TYP.)
PROP. AREA TO BE SEEDED LAWN (TYP.)
APPROXIMATE LOCATION OF "SLOPE 'E' LINE"
APPROXIMATE LOCATION OF "SLOPE 'E' LINE"
EXISTING TREES TO REMAIN (TYP.)
35' FRONT YARD SETBACK
150' SIDE YARD SETBACK
APPROXIMATE MUNICIPAL BOUNDARY LINE
TOWNSHIP OF LAWRENCE
TOWNSHIP OF HAMILTON
WETLANDS LINE
EDGE OF WOODS
EDGE OF WATER
ASSUNPINK CREEK

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REFER TO NOTES AND REFERENCES SHEET FOR ADDITIONAL NOTES, REFERENCES AND SPECIFICATIONS.

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1 INCH = 30 FEET

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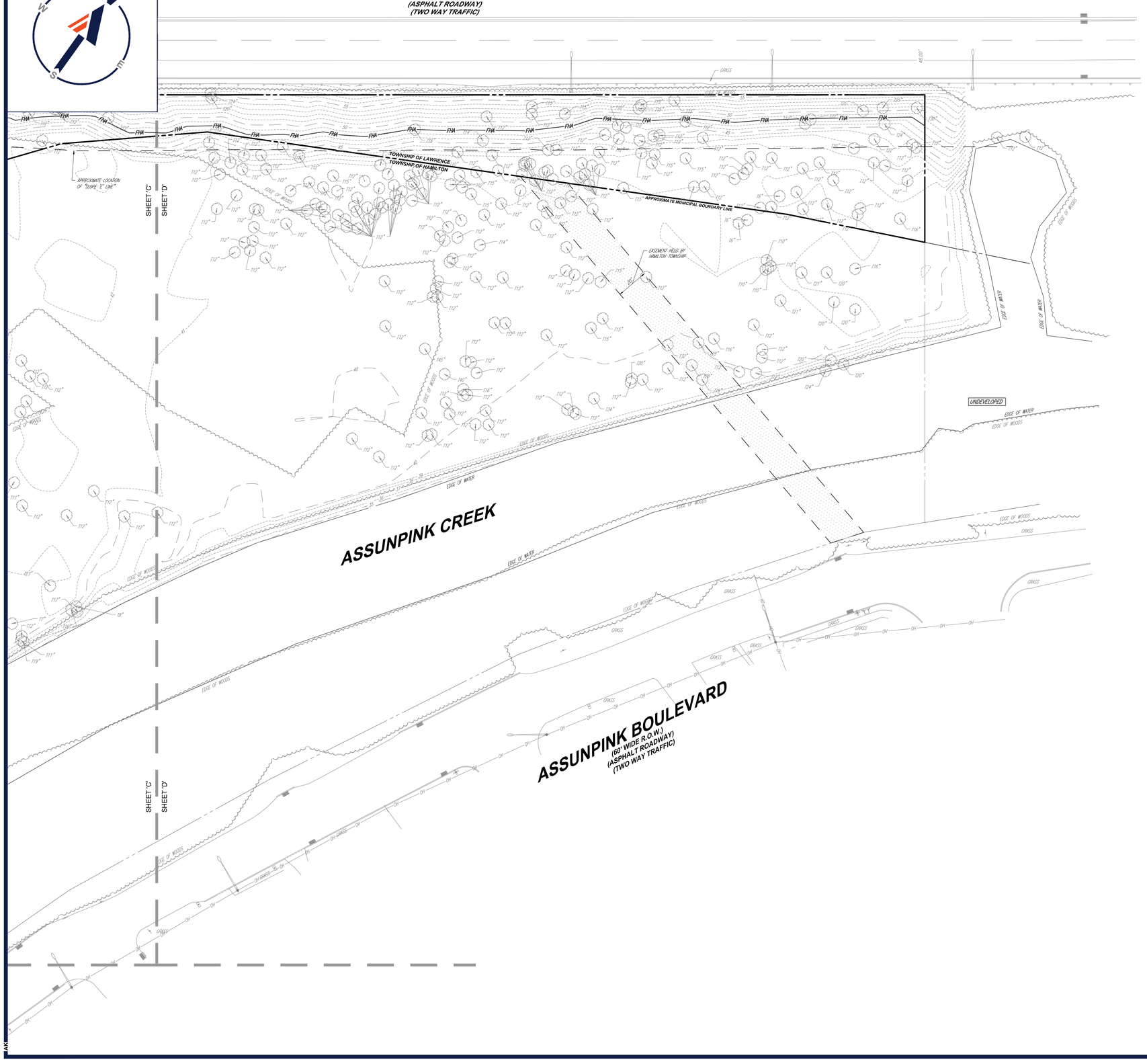
G.A. MASCOLA
LICENSED LANDSCAPE ARCHITECT
NEW JERSEY LICENSE No. 21AS00126900

SHEET TITLE:
LANDSCAPE PLAN 'C'

SHEET NUMBER:
C-703

ORG. DATE - 02/01/2022

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30 0 15 30 60 120

GRAPHIC SCALE 1 INCH = 30 FEET

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CAD I.D.:	J201029-LND-0B

PROJECT:

PRELIMINARY & FINAL MAJOR SITE PLANS

FOR

LAWRENCE LOGISTICS CENTER

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BLOCK 601, LOTS 1-8
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G.A. MASCOLA

LICENSED LANDSCAPE ARCHITECT
NEW JERSEY LICENSE No. 21AS00126900

SHEET TITLE:

LANDSCAPE PLAN 'D'

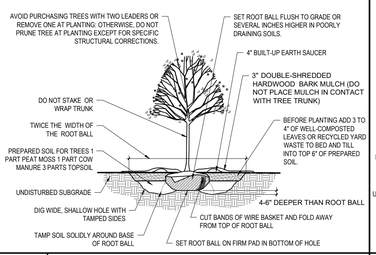
SHEET NUMBER:

C-704

ORG. DATE - 02/01/2022

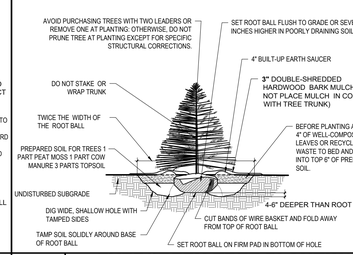
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NOTES:
1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
2. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL. CUT BANDS OF WIRE BASKET AND FOLD BURLAP BACK 1/3 FROM TOP OF ROOT BALL.
3. PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY.
4. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
5. THE BOTTOM OF PLANTING PIT EXCAVATIONS SHOULD BE ROUGH TO AVOID MATTING OF SOIL LAYERS AS NEW SOIL IS ADDED. IT IS PREFERABLE TO TILL THE FIRST LIFT (2 TO 3 IN.) OF PLANTING SOIL INTO THE SUBSOIL.

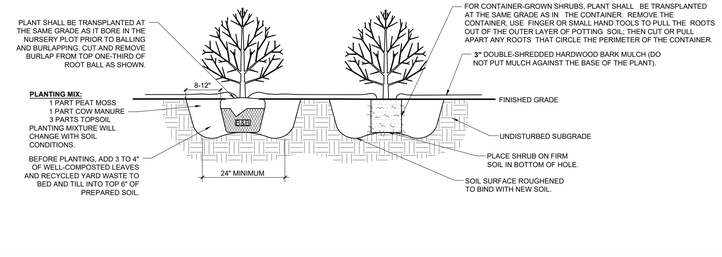


1 DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE (L101103-01/2013)

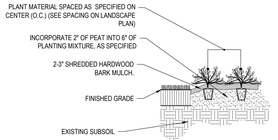
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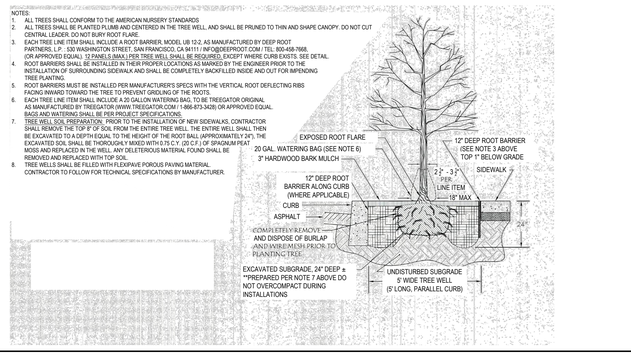
2 EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE (L101104-01/2013)



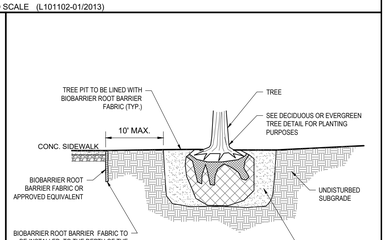
3 DECIDUOUS AND EVERGREEN SHRUB PLANTING DETAIL
NOT TO SCALE (L101102-01/2013)



4 PERENNIAL/GROUND COVER PLANTING DETAIL
NOT TO SCALE (L101101-01/2013)



5 DECIDUOUS STREET TREE PLANTING DETAIL
NOT TO SCALE



NOTES:
1. ANY TREE INSTALLED WITHIN 10 FT. OF NEW CONCRETE SIDEWALKS SHOULD BE INSTALLED WITH BIOBARRIER ROOT BARRIER FABRIC AS SHOWN
2. TREES SHALL BE INSTALLED ACCORDING TO THE APPROPRIATE PLANTING DETAIL.

6 BIOBARRIER ROOT BARRIER DETAIL
NOT TO SCALE (L103301-01/2013)

THIS PLAN TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY

OWNER MAINTENANCE RESPONSIBILITIES

UPON OWNER'S (OR OWNER CONTRACTOR'S) COMPLETION OF LANDSCAPING WORK, THE OWNER IS FULLY RESPONSIBLE FOR ALL FUTURE MAINTENANCE, CARE, UPKEEP, WATERING, AND TRIMMING OF ALL INSTALLED VEGETATION, PLANTS, TREE, BUSHES, SHRUBS, GRASSES, GRASS, ORNAMENTAL PLANTS AND FLOWERS, FLOWERS, GROUND COVER, AND LANDSCAPING, INCLUDING ALL LANDSCAPE ISLANDS AND AREAS ADJACENT OR PART OF THE LANDSCAPED AREAS. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

- TREES ADJACENT TO WALKWAYS AND AREAS OF PEDESTRIAN TRAFFIC MUST BE MAINTAINED TO ASSURE THAT ANY BRANCHES MUST BE LIMBED UP TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PEDESTRIAN SURFACES) OR PRUNED BACK TO AVOID ANY INTERFERENCE WITH THE TYPICAL PATH OF TRAVEL.
- TREES WITHIN VEHICULAR SIGHT LINES, AS ILLUSTRATED ON THE LANDSCAPE PLAN, ARE TO BE TRIMMED TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PAVED, TRAVELED SURFACES), OR AS OTHERWISE INDICATED ON THE PLANS.
- VEGETATIVE GROUND COVER, SHRUBS AND ORNAMENTAL PLANTS AND GRASSES MUST BE TRIMMED SO THAT NO PORTION OF THE PLANT EXCEEDS 30 INCHES ABOVE GRADE (OF ALL PAVED, TRAVEL SURFACES) ALONG AND WITHIN THE SIGHT LINES OF PARKING LOTS AND INGRESS-EGRESS WAYS.
- FALLEN PLANT FLOWERS, FRUIT, SEEDS AND DEBRIS DROPPINGS ARE TO BE REMOVED IMMEDIATELY FROM VEHICULAR AND PEDESTRIAN TRAFFIC AREAS TO PREVENT TRIPPING, SLIPPING OR ANY OTHER HAZARDS.

THESE REQUIREMENTS DO NOT AFFECT THE PLANT LIFE GUARANTEES THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE.

SEEDING SPECIFICATIONS: (L021101 - 06/2012)

1. PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OFALL DEBRIS LARGER THAN 2" DIAMETER.
2. PRIOR TO SEEDING, CONSULT MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
3. SEEDING RATES:

PERENNIAL RYEGRASS	1/2 LB/1,000 SQ FT
KENTUCKY BLUEGRASS	1 LB/1,000 SQ FT
RED FESCUE	1 1/2 LBS/1,000 SQ FT
SPREADING FESCUE	1 1/2 LBS/1,000 SQ FT
FERTILIZER (20:10:10)	14 LBS/1,000 SQ FT
MULCH	90 LBS/1,000 SQ FT

4. GERMINATION RATES WILL VARY AS TO TIME OF YEAR FOR SOWING. CONTRACTOR TO IRRIGATE SEEDED AREA UNTIL AN ACCEPTABLE STAND OF COVER IS ESTABLISHED BY OWNER.

LANDSCAPE SPECIFICATIONS

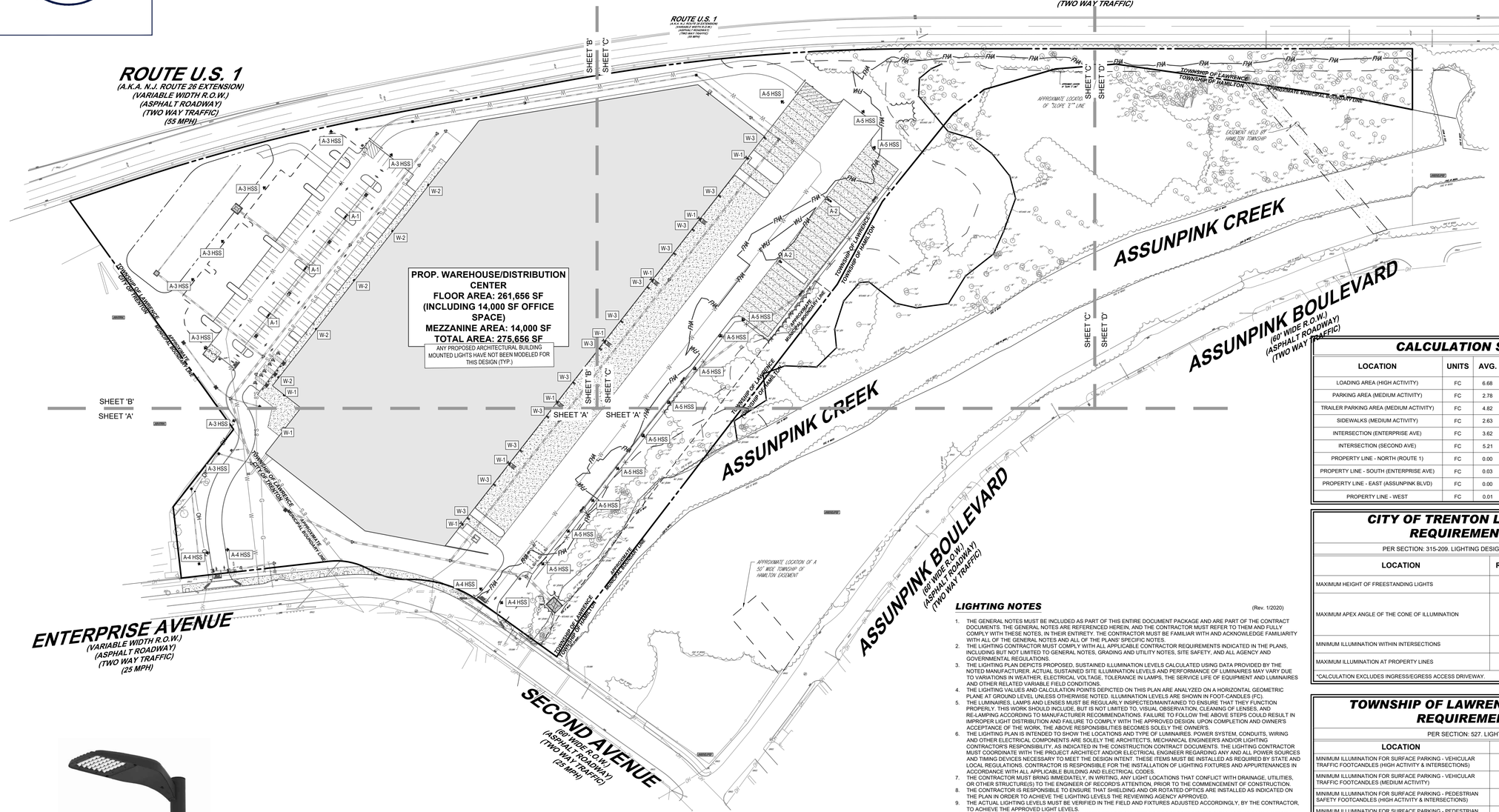
1. SCOPE OF WORK:
   THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SODDING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR.
2. MATERIALS:
   A. GENERAL - ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE MOST CURRENT VERSION OF THE STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS.
   B. TOPSOIL - NATURAL, FRIABLE, LOAMY SILT SOIL HAVING AN ORGANIC CONTENT OF NOT LESS THAN 5% BY WEIGHT AND A PH RANGE BETWEEN 4.5-7.0. IT SHALL BE FREE OF ALL DEBRIS, ROCKS LARGER THAN ONE INCH (1"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS.
   C. LAWN - ALL DISTURBED AREAS ARE TO BE COVERED WITH A MINIMUM 5" THICK LAYER OF TOPSOIL AND SEEDED OR SODDED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS INDICATED WITHIN THE SEEDING SPECIFICATION ON THE APPROVED SOIL EROSION PLAN.
      a. LAWN SEED MIXTURE SHALL BE FRESH, CLEAN NEW CROP SEED.
      b. SOD SHALL BE STRONGLY ROOTED, WEED AND DISEASE/PEST FREE WITH A UNIFORM THICKNESS OF AT LEAST ¾". SOD INSTALLED ON SLOPES GREATER THAN 4:1 SHALL BE PEGGED TO HOLD THE SOD IN PLACE.
   D. MULCH - ALL PLANTING BEDS SHALL BE MULCHED WITH A 3" THICK LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH, UNLESS OTHERWISE SPECIFIED OR DEPICTED ON THE LANDSCAPE PLAN.
   E. FERTILIZER
      a. FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL UNOPENED STANDARD BAGS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO USE.
      b. FOR THE PURPOSE OF BIDDING, ASSUME THAT FERTILIZER SHALL BE AS SPECIFIED OR, AS A MINIMUM, 10% NITROGEN, 6% PHOSPHORUS AND 4% POTASSIUM BY WEIGHT. A FERTILIZER SHOULD NOT BE PURCHASED OR APPLIED WITHOUT A SOIL TEST PERFORMED BY A CERTIFIED SOIL LABORATORY AND THE PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT OR ENGINEER.
   F. PLANT MATERIAL
      a. ALL PLANTS SHALL IN ALL CASES CONFORM TO THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1), LATEST EDITION, AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION (FORMERLY THE AMERICAN ASSOCIATION OF NURSERYMEN).
      b. IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL.
      c. PLANTS SHALL BE LEGIBLY TAGGED WITH THE PROPER BOTANICAL NAME AND SIZE. TAGS ARE TO REMAIN ON AT LEAST ONE PLANT OF EACH SPECIES FOR VERIFICATION PURPOSES DURING THE FINAL INSPECTION.
      d. TREES WITH ABRASION OF THE BARK, SUN SCALDS, DISFIGURATION OR FRESH CUTS OF LIMBS OVER 1¼", WHICH HAVE NOT BEEN COMPLETELY CALLUSED, SHALL BE REJECTED. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES.
      e. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL EXHIBIT NORMAL GROWTH: WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE OF DISEASE, INSECTS, PESTS, EGGS OR LARVAE.
      f. CALIPER MEASUREMENTS OF NURSERY GROWN TREES SHALL BE TAKEN AT A POINT ON THE TRUNK SIX INCHES (6") ABOVE THE NATURAL GRADE FOR TREES UP TO AND INCLUDING A FOUR INCH (4") CALIPER SIZE. IF THE CALIPER AT SIX INCHES (6") ABOVE THE GROUND EXCEEDS FOUR INCHES (4") IN CALIPER, THE CALIPER SHOULD BE MEASURED AT A POINT 12" ABOVE THE NATURAL GRADE.
      g. SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE LONGEST BRANCH.
      h. TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL.
3. GENERAL WORK PROCEDURES:
   A. THE CONTRACTOR SHALL UTILIZE WORKMANLIKE INDUSTRY STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH WORKDAY. ALL DEBRIS, MATERIALS AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF.
   B. WASTE MATERIALS AND DEBRIS SHALL BE COMPLETELY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL NOT BE BURIED, INCLUDING ORGANIC MATERIALS, BUT SHALL BE REMOVED COMPLETELY FROM THE SITE.
4. SITE PREPARATIONS:
   A. BEFORE AND DURING PRELIMINARY GRADING AND FINISHED GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF IN ACCORDANCE WITH THE GENERAL WORK PROCEDURES OUTLINED HEREIN.
   B. ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE TRUNK. THE CONTRACTOR SHALL ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH CLEAN, SHARP TOOLS AND TOPSOIL SHALL BE PLACED AROUND THE REMAINDER OF THE ROOTS. EXISTING TREES SHALL BE MONITORED ON A REGULAR BASIS FOR THE DURATION OF THE PROJECT AND WARRANTY PERIOD FOR ADDITIONAL ROOT OR BRANCH DAMAGE AS A RESULT OF CONSTRUCTION. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. THE CONTRACTOR SHALL WATER EXISTING TREES AS NEEDED TO PREVENT SHOCK OR DECLINE.
   C. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF N.J.S.A. 48:2-74, et seq. , THE UNDERGROUND UTILITY PROTECTION ACT. IN PARTICULAR, THE CONTRACTOR SHALL ARRANGE TO HAVE A UTILITY STAKE-OUT TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY LANDSCAPE MATERIAL.
5. TREE PROTECTION:
   A. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES TO REMAIN. A TREE PROTECTION ZONE SHALL BE ESTABLISHED AT THE DRIP LINE OR AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS GREATER. LOCAL STANDARDS THAT MAY REQUIRE A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED.
   B. A FORTY-EIGHT INCH (48") HIGH WOODEN SNOW FENCE OR ORANGE COLORED HIGH-DENSITY VISI-FENCE', OR APPROVED EQUAL, MOUNTED ON WOOD/STEEL POSTS SHALL BE PLACED ALONG THE BOUNDARY OF THE TREE PROTECTION ZONE. POSTS SHALL BE LOCATED AT A MAXIMUM OF EIGHT FEET (8') ON CENTER OR AS INDICATED WITHIN THE TREE PROTECTION DETAIL.
   C. WHEN THE TREE PROTECTION FENCING HAS BEEN INSTALLED, IT SHALL BE INSPECTED BY THE APPROVING AGENCY PRIOR TO DEMOLITION, GRADING, TREE CLEARING OR ANY OTHER CONSTRUCTION. THE FENCING ALONG THE TREE PROTECTION ZONE SHALL BE REGULARLY INSPECTED BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.
   D. AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.
6. SOIL MODIFICATIONS:
   A. CONTRACTOR SHALL OBTAIN A SOIL TEST FOR ALL AREAS OF THE SITE AND SUBMIT THE SAME TO THE LANDSCAPE ARCHITECT OR ENGINEER FOR APPROVAL PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY.
   B. LANDSCAPE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. SOIL MODIFICATIONS, AS SPECIFIED HEREIN OR DIRECTED BY THE LANDSCAPE ARCHITECT OR ENGINEER, IN WRITING, MAY NEED TO BE CONDUCTED BY THE LANDSCAPE CONTRACTOR DEPENDING ON SITE CONDITIONS.
   C. THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY. COMPOSITION OF AMENDMENTS SHOULD BE REVISED DEPENDING ON THE OUTCOME OF THE SOIL ANALYSIS PERFORMED BY A CERTIFIED SOIL LABORATORY.
   D. TO INCREASE A SANDY SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6-12". USE COMPOSTED BARK, COMPOSTED LEAF MULCH OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.5.
   E. TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRICULTURAL GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY NEED TO BE ADDED TO INCREASE DRAINAGE.
   F. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
7. FINISHED GRADING
   A. UNLESS OTHERWISE CONTRACTED, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBANCE AREA OF THE SITE.
   B. LANDSCAPE CONTRACTOR SHALL VERIFY THAT A PROPER SUBGRADE FOR INSTALLATION OF TOPSOIL HAS BEEN ESTABLISHED. THE SUBGRADE OF THE SITE MUST MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (1"±).
   C. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THIS SET OF CONSTRUCTION PLANS, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.
   D. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER IN AND AROUND THE PLANTING BEDS. STANDING WATER SHALL NOT BE PERMITTED IN PLANTING BEDS.
8. TOPSOILING
   A. CONTRACTOR SHALL PROVIDE A 5" THICK MINIMUM LAYER OF TOPSOIL IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS.
   B. ON-SITE TOPSOIL MAY, UPON THE PROVISION OF A SOIL TEST PERFORMED BY A CERTIFIED SOIL LABORATORY AND THE SUBMISSION TO AND APPROVAL BY THE LANDSCAPE ARCHITECT OR ENGINEER, BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED. TOPSOIL FROM THE SITE MAY BE REJECTED IF IT HAS NOT BEEN PROPERLY REMOVED, STORED AND PROTECTED PRIOR TO CONSTRUCTION.
   C. CONTRACTOR SHALL FURNISH TO THE APPROVING AGENCY AN ANALYSIS OF BOTH IMPORTED AND ON-SITE TOPSOIL TO BE UTILIZED IN ALL PLANTING AREAS. THE PH AND NUTRIENT LEVELS MAY NEED TO BE ADJUSTED THROUGH SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE MATERIALS SECTION ABOVE.
   D. ALL PLANTING AND LAWN AREAS ARE TO BE CULTIVATED TO A DEPTH OF SIX INCHES (6"). ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES SECTION ABOVE. THE FOLLOWING SHALL BE TILLED INTO THE TOP FOUR INCHES (4") IN TWO DIRECTIONS (QUANTITIES BASED ON A 1,000 SQUARE FOOT AREA):
      a. 20 POUNDS 'GROW POWER' OR APPROVED EQUAL
      b. 20 POUNDS NITRO-FORM (COURSE) 38-0-0 BLUE CHIP
   E. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN CONDITIONS.
9. PLANTING
   A. INSOFAR THAT IT IS FEASIBLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE, LANDSCAPE CONTRACTOR SHALL PROTECT UNINSTALLED PLANT MATERIAL. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE.
   B. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION.
   C. ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN-CUT ENDS PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED.
   D. ALL PLANTING CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING. NATURAL FIBER BURLAP MUST BE CUT FROM AROUND THE TRUNK OF THE TREE AND FOLDED DOWN AGAINST THE ROOT BALL PRIOR TO BACKFILLING.
   E. POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
   F. PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE, AS SHOWN ON THE APPROVED LANDSCAPE PLAN, MUST BE INSTALLED, INSPECTED AND APPROVED BY THE APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER SHALL OCCUR ONLY DURING THE FOLLOWING PLANTING SEASONS:
      a. PLANTS: MARCH 15 TO DECEMBER 15
      b. LAWN: MARCH 15 TO JUNE 15 OR SEPT. 1 TO DECEMBER 1

   PLANTINGS REQUIRED FOR A CERTIFICATE OF OCCUPANCY SHALL BE PROVIDED DURING THE NEXT APPROPRIATE SEASON AT THE MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AGENCY, LANDSCAPE ARCHITECT AND/OR ENGINEER FOR POTENTIAL SUBSTITUTIONS.

   G. FURTHERMORE, THE FOLLOWING TREE VARIETIES ARE UNUSUALLY SUSCEPTIBLE TO WINTER DAMAGE. WITH TRANSPLANT SHOCK AND THE SEASONAL LACK OF NITROGEN AVAILABILITY, THE RISK OF PLANT DEATH IS GREATLY INCREASED. IT IS RECOMMENDED THAT THESE SPECIES NOT BE PLANTED DURING THE FALL PLANTING SEASON:

ACER RUBRUM	*PLATANUS X ACERIFOLIA*
BETULA VARIETIES	*POPULUS VARIETIES*
CARPINUS VARIETIES	*PRUNUS VARIETIES*
CRATAEGUS VARIETIES	*PYRUS VARIETIES*
KOELREUTERIA	*QUERCUS VARIETIES*
LIQUIDAMBAR STYRACIFLUA	*TILIA TOMENTOSA*
LIRODENDRON TULIPIFERA	*ZELKOVA VARIETIES*

   H. PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACKFILLED IN LAYERS WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:
      a. 1 PART PEAT MOSS
      b. 1 PART COMPOSTED COW MANURE BY VOLUME
      c. 3 PARTS TOPSOIL BY VOLUME
      d. 21 GRAMS 'AGRIFORM' PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLOWS:
      - 2 TABLETS PER 1 GALLON PLANT
      - 3 TABLETS PER 5 GALLON PLANT
      - 4 TABLETS PER



CALCULATION SUMMARY

LOCATION	UNITS	AVG.	MAX.	MIN.	AVG./MIN.	MAX./MIN.
LOADING AREA (HIGH ACTIVITY)	FC	6.68	14.6	2.1	3.18	6.95
PARKING AREA (MEDIUM ACTIVITY)	FC	2.78	4.9	1.0	2.78	4.90
TRAILER PARKING AREA (MEDIUM ACTIVITY)	FC	4.82	10.8	1.5	3.21	7.20
SIDEWALKS (MEDIUM ACTIVITY)	FC	2.63	5.3	0.7	3.76	7.57
INTERSECTION (ENTERPRISE AVE)	FC	3.62	6.2	1.1	3.29	5.64
INTERSECTION (SECOND AVE)	FC	5.21	7.0	2.0	2.61	3.50
PROPERTY LINE - NORTH (ROUTE 1)	FC	0.00	0.1	0.0	N.A.	N.A.
PROPERTY LINE - SOUTH (ENTERPRISE AVE)	FC	0.03	0.5	0.0	N.A.	N.A.
PROPERTY LINE - EAST (ASSUNPINK BLVD)	FC	0.00	0.0	0.0	N.A.	N.A.
PROPERTY LINE - WEST	FC	0.01	0.1	0.0	N.A.	N.A.

CITY OF TRENTON LIGHTING REQUIREMENTS

PER SECTION: 315-209. LIGHTING DESIGN STANDARDS.

LOCATION	REQUIRED	PROPOSED
MAXIMUM HEIGHT OF FREESTANDING LIGHTS	25'	25' (COMPLIES)
MAXIMUM APEX ANGLE OF THE CONE OF ILLUMINATION	150°	LIGHT FIXTURES MEET CURRENT LCS STANDARDS AND WILL BE LESS THAN 150° CONE OF ILLUMINATION (COMPLIES)
MINIMUM ILLUMINATION WITHIN INTERSECTIONS	1.0 FC	1.1 FC (COMPLIES)
MAXIMUM ILLUMINATION AT PROPERTY LINES	1.0 FC	0.5 FC* (COMPLIES)

*CALCULATION EXCLUDES INGRESS/EGRESS ACCESS DRIVEWAY.

TOWNSHIP OF LAWRENCE LIGHTING REQUIREMENTS

PER SECTION: 527. LIGHTING

LOCATION	REQUIRED	PROPOSED
MINIMUM ILLUMINATION FOR SURFACE PARKING - VEHICULAR TRAFFIC FOOTCANDLES (HIGH ACTIVITY & INTERSECTIONS)	2.0 FC	2.1 FC (COMPLIES)
MINIMUM ILLUMINATION FOR SURFACE PARKING - VEHICULAR TRAFFIC FOOTCANDLES (MEDIUM ACTIVITY)	1.0 FC	1.0 - 1.5 FC (COMPLIES)
MINIMUM ILLUMINATION FOR SURFACE PARKING - PEDESTRIAN SAFETY FOOTCANDLES (HIGH ACTIVITY & INTERSECTIONS)	0.9 FC	2.1 FC (COMPLIES)
MINIMUM ILLUMINATION FOR SURFACE PARKING - PEDESTRIAN SAFETY FOOTCANDLES (MEDIUM ACTIVITY)	0.6 FC	0.7 FC (COMPLIES)
AVERAGE TO MINIMUM - SURFACE PARKING AREAS	4:1	2.63:1 - 3.13:1 (COMPLIES)
MAXIMUM TO MINIMUM ON SITE - SURFACE PARKING AREAS	10:1	5.00:1 - 7.27:1 (COMPLIES)
MAXIMUM MOUNTING HEIGHT	25' OR THE HEIGHT OF THE BUILDING, WHICHEVER IS LESS	25' (COMPLIES)

LIGHTING NOTES

(Rev. 1/2020)

1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
2. THE LIGHTING CONTRACTOR MUST COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE PLANS, INCLUDING BUT NOT LIMITED TO GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL AGENCY AND GOVERNMENTAL REGULATIONS.
3. THE LIGHTING PLAN DEPICTS PROPOSED, SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER. ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.
4. THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT GROUND LEVEL UNLESS OTHERWISE NOTED. ILLUMINATION LEVELS ARE SHOWN IN FOOT-CANDLES (FC).
5. THE LUMINAIRES, LAMPS AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT IS NOT LIMITED TO, VISUAL OBSERVATION, CLEANING OF LENSES, AND RE-LAMPING ACCORDING TO MANUFACTURER RECOMMENDATIONS. FAILURE TO FOLLOW THE ABOVE STEPS COULD RESULT IN IMPROPER LIGHT DISTRIBUTION AND FAILURE TO COMPLY WITH THE APPROVED DESIGN. UPON COMPLETION AND OWNER'S ACCEPTANCE OF THE WORK, THE ABOVE RESPONSIBILITIES BECOMES SOLELY THE OWNER'S.
6. THE LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES. POWER SYSTEM, CONDUITS, WIRING AND OTHER ELECTRICAL COMPONENTS ARE SOLELY THE ARCHITECT'S, MECHANICAL ENGINEER'S AND/OR LIGHTING CONTRACTOR'S RESPONSIBILITY, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THE LIGHTING CONTRACTOR MUST COORDINATE WITH THE PROJECT ARCHITECT AND/OR ELECTRICAL ENGINEER REGARDING ANY AND ALL POWER SOURCES AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES.
7. THE CONTRACTOR MUST BRING IMMEDIATELY, IN WRITING, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURE(S) TO THE ENGINEER OF RECORD'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
8. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT SHIELDING AND OR ROTATED OPTICS ARE INSTALLED AS INDICATED ON THE PLAN IN ORDER TO ACHIEVE THE LIGHTING LEVELS THE REVIEWING AGENCY APPROVED.
9. THE ACTUAL LIGHTING LEVELS MUST BE VERIFIED IN THE FIELD AND FIXTURES ADJUSTED ACCORDINGLY, BY THE CONTRACTOR, TO ACHIEVE THE APPROVED LIGHT LEVELS.
10. ILLUMINATION LEVELS SHOWN ON THE PLAN HAVE BEEN CALCULATED FOR PROPOSED LIGHTS ONLY. ACTUAL ILLUMINATION LEVELS IN THE FIELD MAY DIFFER FROM THOSE DEPICTED ON THE PLAN DUE TO INTERFERENCE FROM EXISTING/AMBIENT LIGHTS WHOSE ILLUMINATION LEVELS ARE NOT REFLECTED ON THIS PLAN.
11. ILLUMINATION LEVELS SHOWN ON THE PLAN WERE CALCULATED WITH LIGHTING DESIGN SOFTWARE AGI32 BY LIGHTING ANALYST.



LSI INDUSTRIES MIRADA MEDIUM (MRM) SERIES LED AREA LIGHT & WALL MOUNTED AREA LIGHT (A-1 THRU A-5 HSS & W-3)
NOT TO SCALE



LSI INDUSTRIES MIRADA (XWM) SERIES LED WALL SCONCE (W-1 & W-2)
NOT TO SCALE

LUMINAIRE SCHEDULE

SYMBOL	QTY	LABEL	MTG. HT.	DESCRIPTION	ARRNGMNT.	LUMENS	LLF	COLOR TEMP.	IES FILENAME	CATALOG #
	3	A-1	25'	LSI INDUSTRIES MIRADA MEDIUM (MRM) SERIES LED AREA LIGHT	BACK-TO-BACK	18,379 (X2)	0.900	4000K	MRM-LED-18L-SIL-5W-40-70CRI.IES	MRM-LED-18L-SIL-5W-XXX-XXX-DIM-40-70CRI-BLK
	2	A-2	25'	LSI INDUSTRIES MIRADA MEDIUM (MRM) SERIES LED AREA LIGHT	SINGLE	47,067	0.900	4000K	MRM-LED-48L-SIL-5W-40-70CRI.IES	MRM-LED-48L-SIL-5W-XXX-XXX-DIM-40-70CRI-BLK
	8	A-3 HSS	25'	LSI INDUSTRIES MIRADA MEDIUM (MRM) SERIES LED AREA LIGHT W/ INTEGRAL LOUVER HOUSE SIDE SHIELD	SINGLE	12,149	0.900	4000K	MRM-LED-18L-SIL-FT-40-70CRI-IL.IES	MRM-LED-18L-SIL-FT-XXX-XXX-DIM-40-70CRI-BLK-IL
	4	A-4 HSS	25'	LSI INDUSTRIES MIRADA MEDIUM (MRM) SERIES LED AREA LIGHT W/ INTEGRAL LOUVER HOUSE SIDE SHIELD	SINGLE	14,155	0.900	4000K	MRM-LED-18L-SIL-3-40-70CRI-IL.IES	MRM-LED-18L-SIL-3-XXX-XXX-DIM-40-70CRI-BLK-IL
	12	A-5 HSS	25'	LSI INDUSTRIES MIRADA MEDIUM (MRM) SERIES LED AREA LIGHT W/ INTEGRAL LOUVER HOUSE SIDE SHIELD	SINGLE	30,899	0.900	4000K	MRM-LED-48L-SIL-FT-40-70CRI-IL.IES	MRM-LED-48L-SIL-FT-XXX-XXX-DIM-40-70CRI-BLK-IL
	9	W-1	10'	LSI INDUSTRIES MIRADA (XWM) SERIES LED WALL SCONCE	SINGLE	4,073	0.900	4000K	XWM-FT-LED-04L-40.IES	XWM-FT-LED-04L-40-XXX-BLK-DIM-BLK
	5	W-2	20'	LSI INDUSTRIES MIRADA (XWM) SERIES LED WALL SCONCE	SINGLE	12,080	0.900	4000K	XWM-FT-LED-12L-40.IES	XWM-FT-LED-12L-40-XXX-BLK-DIM-BLK
	12	W-3	25'	LSI INDUSTRIES MIRADA MEDIUM (MRM) SERIES LED WALL MOUNTED AREA LIGHT	SINGLE	48,810	0.900	4000K	MRM-LED-48L-SIL-FT-40-70CRI.IES	MRM-LED-48L-SIL-FT-XXX-XXX-DIM-40-70CRI-BLK+ WALL MOUNT BRACKET (382132CLR)

NOTES: 1. ANY EXISTING STREET OR AREA LIGHTS HAVE NOT BEEN MODELED FOR THIS DESIGN.
2. ANY PROPOSED ARCHITECTURAL BUILDING MOUNTED LIGHTS HAVE NOT BEEN MODELED FOR THIS DESIGN.
3. ALL PROPOSED BUILDING MOUNTED LIGHTS ARE MOUNTED AT THE SPECIFIED HEIGHT ABOVE THE FINISHED FLOOR ELEVATION OF THE BUILDING.

REFER TO DETAIL SHEET FOR LIGHT POLE SPECIFICATION & LIGHT POLE FOUNDATION DETAIL

REFER TO NOTES AND REFERENCES SHEET FOR ADDITIONAL NOTES, REFERENCES AND SPECIFICATIONS.

THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY

80 0 40 80 160 320

GRAPHIC SCALE 1 INCH = 80 FEET

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PROJECT No.:	J201029
DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-LGT-0B

PROJECT:
PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

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Fax: (908) 754-4401
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SHEET TITLE:
OVERALL LIGHTING PLAN

SHEET NUMBER:
C-706

ORG. DATE - 02/01/2022

G:\2020\J201029\DRAWINGS\CURRENT DRAWINGS\SITE PLAN PACKAGE\J201029-LGT-0B.DWG---LAYOUT: C-706 LGHT



REFER TO OVERALL LIGHTING PLAN FOR LUMINAIRE SCHEDULE AND MUNICIPAL REQUIREMENTS.

REFER TO NOTES AND REFERENCES SHEET FOR ADDITIONAL NOTES, REFERENCES AND SPECIFICATIONS.

THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY

30 0 15 30 60 120

GRAPHIC SCALE 1 INCH = 30 FEET

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PROJECT No.:	J201029
DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-LGT-0B

PROJECT:

PRELIMINARY & FINAL MAJOR SITE PLANS

FOR

LAWRENCE LOGISTICS CENTER

PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER

40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE
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BLOCK 23201, LOT 1
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TAX MAP SHEET #232
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SHEET TITLE:

LIGHTING PLAN 'A'

SHEET NUMBER:

C-707

ORG. DATE - 02/01/2022



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DATE:	02/01/2022
CAD I.D.:	J201029-LGT-0B

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OHIO LICENSE No. 78297

SHEET TITLE:

LIGHTING PLAN 'B'

SHEET NUMBER:

C-708

ORG. DATE - 02/01/2022

ROUTE U.S. 1

(A.K.A. N.J. ROUTE 26 EXTENSION)
(VARIABLE WIDTH R.O.W.)
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)
(55 MPH)

SHEET 'B'
SHEET 'C'
SHEET 'A'
SHEET 'B'
SHEET 'C'
SHEET 'C'
SHEET 'D'
SHEET 'C'
SHEET 'D'

APPROXIMATE LOCATION OF "SLOPE 'A'" LINE
APPROXIMATE LOCATION OF "SLOPE 'B'" LINE
APPROXIMATE LOCATION OF 0.5 FC ISOLINE (TYP.)
TOWNSHIP OF LAWRENCE / TOWNSHIP OF HAMILTON
ASSUNPINK CREEK
EDGE OF WATER
EDGE OF WOODS
WETLANDS LINE
WLF #10
WLF #11
WLF #13
WLF #14
WLF #15
WLF #16
WLF #17
WLF #18
WLF #19
WLF #21
WLF #22
A-5 HSS
A-2
W-1
W-3

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30 0 15 30 60 120
GRAPHIC SCALE
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CAD I.D.: J201029-LGT-08

PROJECT:
PRELIMINARY & FINAL MAJOR SITE PLANS
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PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
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CITY OF TRENTON
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TAX MAP SHEET #232
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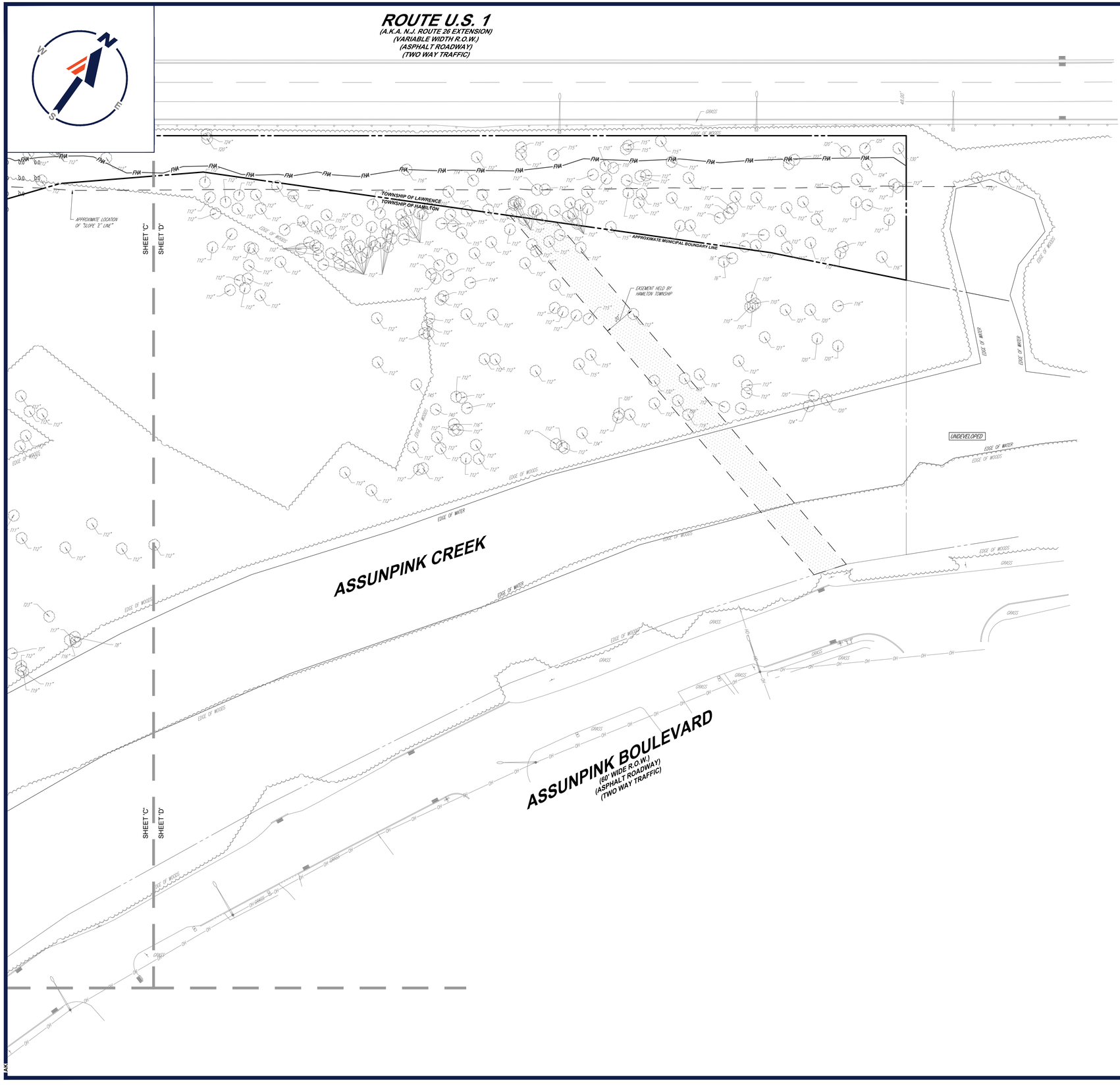
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SHEET TITLE:
LIGHTING PLAN 'C'

SHEET NUMBER:
C-709

ORG. DATE - 02/01/2022



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GRAPHIC SCALE: 30 0 15 30 60 120 — 1 INCH = 30 FEET

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DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-LGT-0B

PROJECT:

PRELIMINARY & FINAL MAJOR SITE PLANS

FOR

LAWRENCE LOGISTICS CENTER

PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER

40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
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SHEET TITLE:

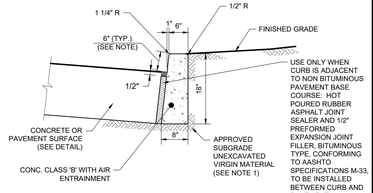
LIGHTING PLAN 'D'

SHEET NUMBER:

C-710

ORG. DATE - 02/01/2022

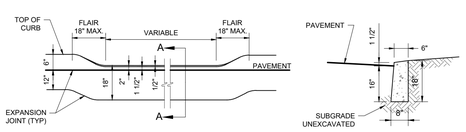
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NOTES:
1. ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED WITH 3/4" CLEAN CRUSHED STONE. ALL SUBGRADES SHALL BE APPROVED BY THE ENGINEER PRIOR TO POURING.
2. TRANSVERSE EXPANSION JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20'-0" APART AND SHALL BE FILLED WITH PREFORMED, BITUMINOUS-IMPREGNATED FIBER JOINT FILLER, COMPLYING WITH THE REQUIREMENTS OF AASHTO M-213, RECESSED 1/4" FROM THE FRONT FACE AND TOP OF THE CURB.
3. DUMMY JOINTS (FORMED) SHALL BE INSTALLED MIDWAY BETWEEN EXPANSION JOINTS.
4. WIDTH OF JOINT FILLER STRIP EQUAL TO THE THICKNESS OF THE PAVEMENT LESS 1/2".
5. THESE SPECIFICATIONS ALSO MEET RSIS DESIGN STANDARDS.
6. THE 6" CURB REVEAL IS TYPICAL. CONTRACTOR TO REVIEW GRADING PLAN FOR AREAS WHERE REVEAL IS TO BE MODIFIED.

1 CONCRETE CURB 6" REVEAL DETAIL

NOT TO SCALE (S030202-01/2013)

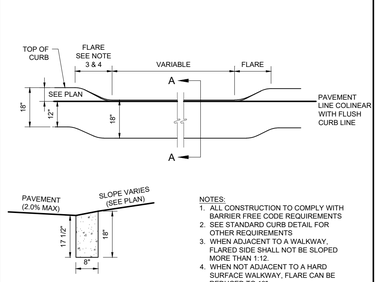


SECTION A-A

NOTES:
1. ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED WITH ¾" CLEAN CRUSHED STONE. ALL SUBGRADES SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO POURING.
2. EXPANSION JOINTS SHALL BE PROVIDED AT EQUAL DISTANCES OF NOT MORE THAN 20' AND AT ALL STORM SEWER INLETS. JOINTS SHALL BE FILLED WITH PREFORMED EXPANSION JOINT FILLER, ½" THICK, CONFORMING TO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE JOINT SHALL BE RECESSED 1/4" FROM THE TOP AND FRONT OF THE CONCRETE CURB.
3. TRANSVERSE JOINTS ½" WIDE SHALL BE INSTALLED IN THE CURB 20' APART AND SHALL BE FILLED WITH PREFORMED, BITUMINOUS-IMPREGNATED FIBER JOINT FILLER, COMPLYING WITH THE REQUIREMENTS OF AASHTO M-213, RECESSED ½" FROM THE FRONT FACE AND TOP OF THE CURB.
4. DUMMY JOINTS (FORMED) SHALL BE INSTALLED MIDWAY BETWEEN EXPANSION JOINTS.
5. WIDTH OF JOINT FILLER STRIP EQUAL TO THE THICKNESS OF THE PAVEMENT LESS ½".
6. A ½" PREFORMED EXPANSION JOINT FILLER, BITUMINOUS TYPE, CONFORMING TO AASHTO SPEC'S M-33, TO BE INSTALLED BETWEEN CURB AND NON-BITUMINOUS PAVEMENT OR BASE COURSE.

2 DEPRESSED CONCRETE CURB AT DRIVEWAY DETAIL

NOT TO SCALE (S030303-01/2013)

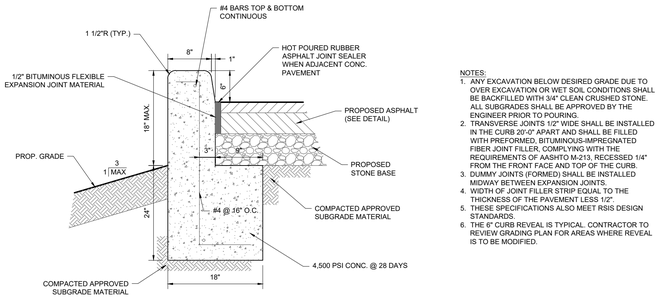


SECTION A-A

NOTES:
1. ALL CONSTRUCTION TO COMPLY WITH BARRIER FREE CODE REQUIREMENTS
2. SEE STANDARD CURB DETAIL FOR OTHER REQUIREMENTS
3. WHEN ADJACENT TO A WALKWAY, FLARED SIDE SHALL NOT BE SLOPED MORE THAN 1:12.
4. WHEN NOT ADJACENT TO A HARD SURFACE WALKWAY, FLARE CAN BE REDUCED TO 18".
5. CURB REVEAL TYPICALLY 6" BUT CONTRACTOR SHALL REFER TO PLAN AND CURB DETAIL FOR CURB REVEAL SPECIFIC TO SITE LOCATION.

3 ADA FLUSH CURB DETAIL

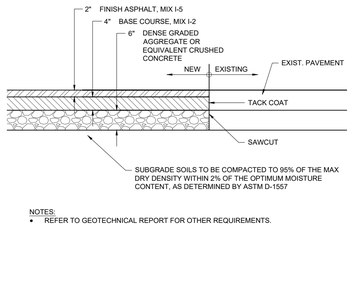
NOT TO SCALE (S039904-01/2013)



NOTES:
1. ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED WITH 3/4" CLEAN CRUSHED STONE. ALL SUBGRADES SHALL BE APPROVED BY THE ENGINEER PRIOR TO POURING.
2. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20'-0" APART AND SHALL BE FILLED WITH PREFORMED, BITUMINOUS-IMPREGNATED FIBER JOINT FILLER, COMPLYING WITH THE REQUIREMENTS OF AASHTO M-213, RECESSED 1/4" FROM THE FRONT FACE AND TOP OF THE CURB.
3. DUMMY JOINTS (FORMED) SHALL BE INSTALLED MIDWAY BETWEEN EXPANSION JOINTS.
4. WIDTH OF JOINT FILLER STRIP EQUAL TO THE THICKNESS OF THE PAVEMENT LESS 1/2".
5. THESE SPECIFICATIONS ALSO MEET RSIS DESIGN STANDARDS.
6. THE 6" CURB REVEAL IS TYPICAL. CONTRACTOR TO REVIEW GRADING PLAN FOR AREAS WHERE REVEAL IS TO BE MODIFIED.

4 EXTENDED CURB REAR EXPOSED DETAIL

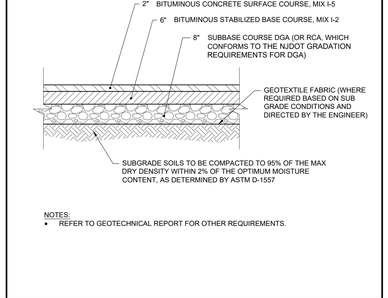
NOT TO SCALE (S030208 - 9/2016)



NOTES:
- REFER TO GEOTECHNICAL REPORT FOR OTHER REQUIREMENTS.

5 STANDARD PAVING DETAIL

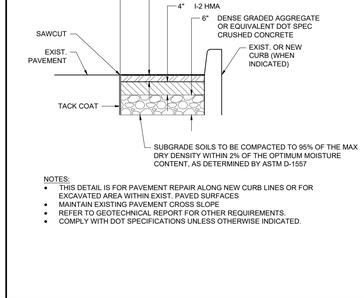
NOT TO SCALE (S080102-01/2013)



NOTES:
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6 HEAVY DUTY PAVEMENT SECTION DETAIL

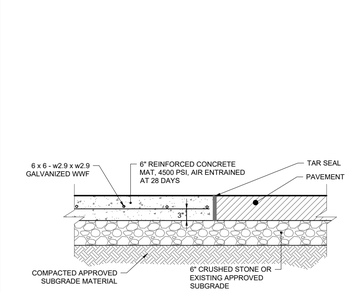
NOT TO SCALE (S080101-01/2013)



NOTES:
- THIS DETAIL IS FOR PAVEMENT REPAIR ALONG NEW CURB LINES OR FOR EXCAVATED AREA WITHIN EXIST. PAVED SURFACES
- MAINTAIN EXISTING PAVEMENT CROSS SLOPE
- REFER TO GEOTECHNICAL REPORT FOR OTHER REQUIREMENTS.
- COMPLY WITH DOT SPECIFICATIONS UNLESS OTHERWISE INDICATED.

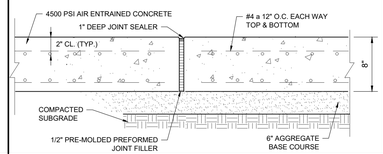
7 PAVEMENT REPAIR DETAIL

NOT TO SCALE (S080402-07/2016)



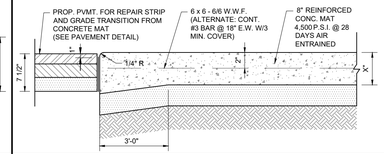
8 REINFORCED CONCRETE MAT 6" THICK DETAIL

NOT TO SCALE (S029905-01/2013)



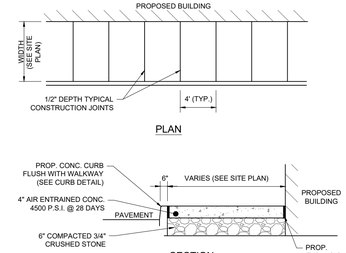
9 8" CONC. PAVEMENT w/ TOP & BOTTOM REBAR & EXP. JOINT

NOT TO SCALE (S080301-01/2013)



10 ASPHALT/CONCRETE PAVING DETAIL WITH ISOLATION JOINT

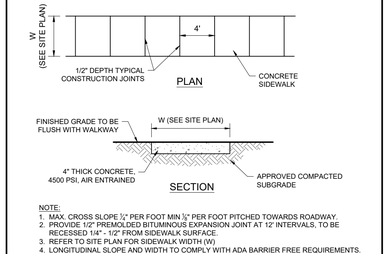
NOT TO SCALE (S080201-01/2013)



NOTES:
1. CROSS SLOPE MAX. 1/4" - MIN. 1/8" PER FOOT PITCHED AWAY FROM BUILDING.
2. PROVIDE 1/2" REMOLDED BITUMINOUS EXPANSION JOINT AT 12' INTERVALS AND ALONG CURBS AND BUILDING.
3. REFER TO SITE PLAN FOR SIDEWALK WIDTH.

11 CURB AND WALK AT BUILDING DETAIL

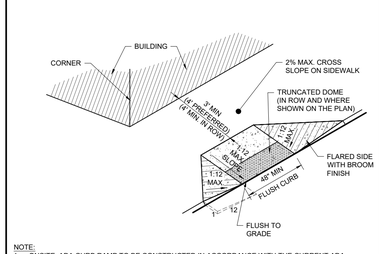
NOT TO SCALE (S090104-01/2013)



NOTE:
1. MAX. CROSS SLOPE ½" PER FOOT MIN ¼" PER FOOT PITCHED TOWARDS ROADWAY.
2. PROVIDE 1/2" PREMOLDED BITUMINOUS EXPANSION JOINT AT 12' INTERVALS, TO BE RECESSED 1/4" - 1/2" FROM SIDEWALK SURFACE.
3. REFER TO SITE PLAN FOR SIDEWALK WIDTH (W)
4. LONGITUDINAL SLOPE AND WIDTH TO COMPLY WITH ADA BARRIER FREE REQUIREMENTS.

12 CONCRETE SIDEWALK DETAIL

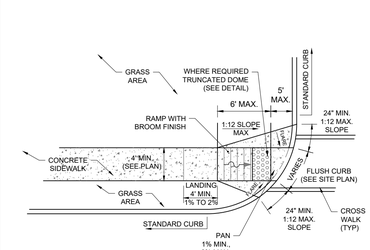
NOT TO SCALE (S090105-01/2013)



NOTE:
1. ONSITE, ADA CURB RAMP TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT ADA STANDARDS.
2. WITHIN ROW, ADA CURBING TO BE CONSTRUCTED IN ACCORDANCE WITH PROPOSED ROW ACCESSIBILITY (PROWAG) GUIDELINES
3. CONTRACTOR TO CONSTRUCT DETECTABLE WARNINGS WHEN SIDEWALK IS WITHIN PUBLIC ROW AND WHERE SHOWN ON PLANS.
4. DETECTABLE WARNING SURFACES SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A BOTTOM DIAMETER OF NOMINAL 0.9 INCH, A TOP DIAMETER OF 0.4 INCH, A HEIGHT OF NOMINAL 0.2 INCH, A CENTER TO CENTER SPACING OF NOMINAL 2.35 INCH, AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT ON DARK OR DARK ON LIGHT. (SEE DETAIL)
5. TOP OF CURB TO HAVE SAME SLOPE AS ADJACENT CURB RAMP.

13 ADA FLARED RAMP AT BUILDING CORNER DETAIL

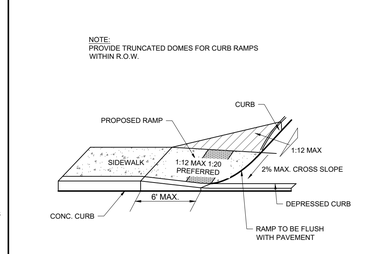
NOT TO SCALE (S070113-01/2013)



NOTE:
1. ADA CURB RAMP TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT ADA STANDARDS.
2. CONTRACTOR TO CONSTRUCT DETECTABLE WARNINGS WHEN CURB RAMP IS WITHIN ROAD ROW AND WHERE SHOWN ON THE PLANS.
3. DETECTABLE WARNING SURFACES SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A BOTTOM DIAMETER OF NOMINAL 0.9 INCH, A TOP DIAMETER OF 0.4 INCH, A HEIGHT OF NOMINAL 0.2 INCH, A CENTER TO CENTER SPACING OF NOMINAL 2.35 INCH, AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT ON DARK OR DARK ON LIGHT. (SEE DETAIL)

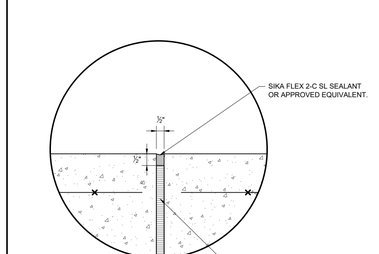
14 ADA CURB_RAMP TO ROAD CROSSWALK DETAIL

NOT TO SCALE (S070116-01/2013)



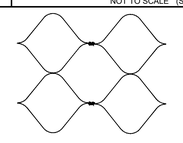
15 DEPRESSED WALK DETAIL

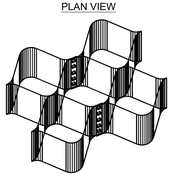
NOT TO SCALE (S099901-01/2013)

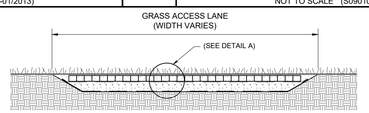


16 EXPANSION JOINT WITH SEALANT DETAIL

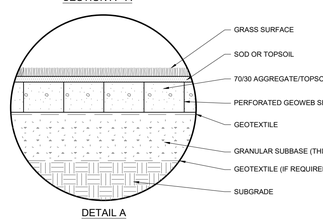
NOT TO SCALE (S090109-01/2013)


PLAN VIEW


ISOMETRIC VIEW



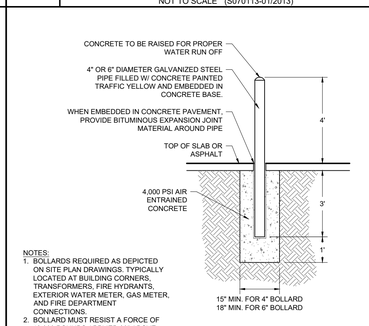
SECTION A - A



DETAIL A

17 GEOWEB GRASS DETAIL

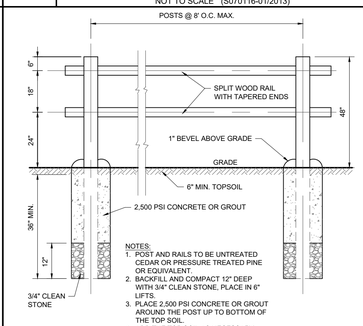
NOT TO SCALE (S090201-06/2017)



NOTES:
1. BOLLARDS REQUIRED AS DEPICTED ON SITE PLAN DRAWINGS. TYPICALLY LOCATED AT BUILDING CORNERS, TRANSFORMERS, FIRE HYDRANTS, EXTERIOR WATER METER, GAS METER, AND FIRE DEPARTMENT CONNECTIONS.
2. BOLLARD MUST RESIST A FORCE OF 12,000 POUNDS APPLIED 30" ABOVE THE DRIVING SURFACE.

18 4" OR 6" BOLLARD DETAIL

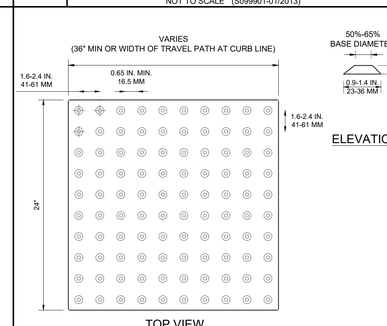
NOT TO SCALE (S010201-01/2013)



NOTES:
1. POST AND RAILS TO BE UNTREATED CEDAR OR PRESSURE TREATED PINE OR EQUIVALENT.
2. BACKFILL AND COMPACT 12" DEEP WITH 3/4" CLEAN STONE, PLACE IN 6" LIFTS.
3. PLACE 2,500 PSI CONCRETE OR GROUT AROUND THE POST UP TO BOTTOM OF THE TOP SOIL.
4. ADD THE TOP SOIL AS NECESSARY.

19 POST AND RAIL FENCE SPLIT RAIL FENCE DETAIL

NOT TO SCALE (S059902-01/2013)



TOP VIEW

ELEVATION (ENLARGED)

NOTE:
1. TRUNCATED DOMES THAT PROVIDE THE DETECTABLE WARNING SURFACE SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT ON DARK OR DARK ON LIGHT.
2. CONTRACTOR TO INSTALL DETECTABLE WARNING SURFACES WHEN SIDEWALK IS WITHIN PUBLIC ROW AND WHERE INDICATED ON THE PLAN.
3. DOMES SHALL HAVE A BASE DIAMETER OF 0.9 IN (23 mm) MIN. TO 1.4 IN (36 mm) MAX, AND A TOP DIAMETER OF 50% TO 65% MAX. OF THE BASE DIAMETER.
4. TRUNCATED DOMES SHALL HAVE A HEIGHT OF 0.2" (5.1 mm).
5. TRUNCATED DOMES SHALL HAVE A CENTER TO CENTER SPACING OF 1.6 IN (41 mm) MIN. AND 2.4 IN. (61 mm) MAX. AND A BASE TO BASE SPACING OF 0.65 IN. (16.5 mm) MIN., MEASURED BETWEEN THE MOST ADJACENT DOMES ON THE GRID.
6. TRUNCATED DOMES SHALL BE AN INTEGRAL PART OF THE ADA CURB RAMP CONSTRUCTION CONSISTING OF CAST IN PLACE COMPOSITE TILES/MAT. THE TILE/MAT MATERIAL SHALL BE A HOMOGENEOUS GLASS AND CARBON REINFORCED COMPOSITE, COLOR FAST AND UV STABLE, COMP. STRENGTH 23,800 PSI ASTM D695 AND FLEXUAL STRENGTH 24,600 PSI ASTM D796. PRECAST CONCRETE PAVER BLOCKS HAVING COMPLIANT TRUNCATED DOMES, MAY ALSO BE USED FOR THE DETECTABLE WARNING SURFACE. RUBBERIZED MATERIAL TO BE GLUED TO RAMP SURFACE SHALL NOT BE ACCEPTABLE.
7. TRUNCATED DOMES SHALL EXTEND THE FULL WIDTH OF THE TRAVEL PATH EXCLUDING FLARES.

20 TRUNCATED DOME PATTERN DETAIL

NOT TO SCALE (S070117-01/2013)

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PROJECT No.:	J201029
DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-CDS-0B

PROJECT:
PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

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www.BohlerEngineering.com
NJ CERT. OF AUTHORIZATION NO: 24GA28161700 & MH000122

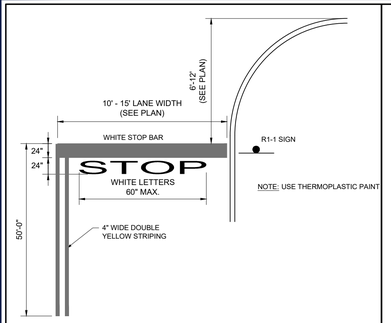
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OHIO LICENSE No. 74297

SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C-901

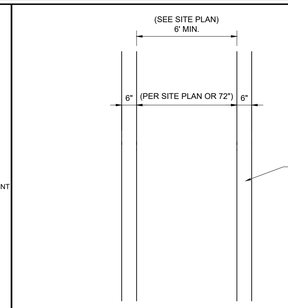
ORG. DATE - 02/01/2022

C:\2020\J201029\DRAWINGS\CURRENT DRAWINGS\SITE PLAN PACKAGE\J201029-CDS-0B-----LAYOUT: C-901 DETL



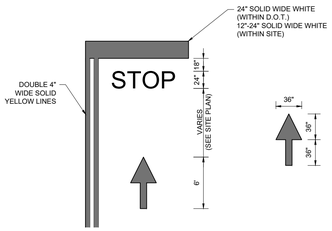
1 CONTROLLED INTERSECTION STRIPING AND SIGNAGE DETAIL

NOT TO SCALE (S080504-01/2013)



2 PAINTED CROSSWALK DETAIL

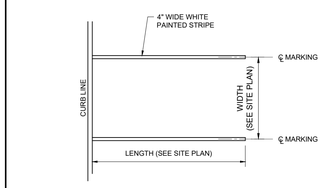
NOT TO SCALE (S080601.02-08/2016)



NOTES:
1. ARROWS AND WORDS CAN BE ARRANGED IN DIFFERENT COMBINATIONS TO ACHIEVE DESIRED RESULT.
2. STOP BAR, LETTERS, AND ARROW TO BE THERMOPLASTIC.
3. LINES TO BE EPOXY PAINT PER DOT STANDARD SPECIFICATIONS.

3 PAINTED MARKING DETAILS

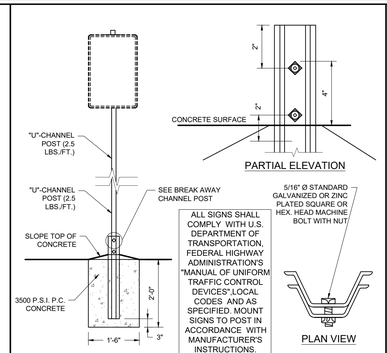
NOT TO SCALE (S080501-01/2013)



NOTE:
USE EPOXY TRAFFIC PAINT MEETING DOT SPECIFICATIONS.

4 STANDARD STRIPING DETAIL

NOT TO SCALE (S080506-01/2013)



5 BREAKAWAY SIGN POST IN CONCRETE DETAIL

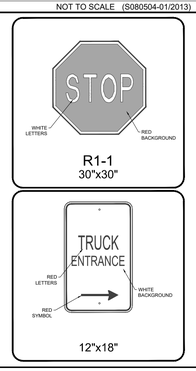
NOT TO SCALE (S100202.02-01/2013)



NOTE: SIGN MUST COMPLY WITH ALL LOCAL FIRE DEPT. REQUIREMENTS.

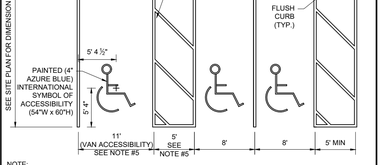
6 FIRE ZONE SIGN DETAIL

NOT TO SCALE (S100105-01.2013)



7 SITE SIGNAGE

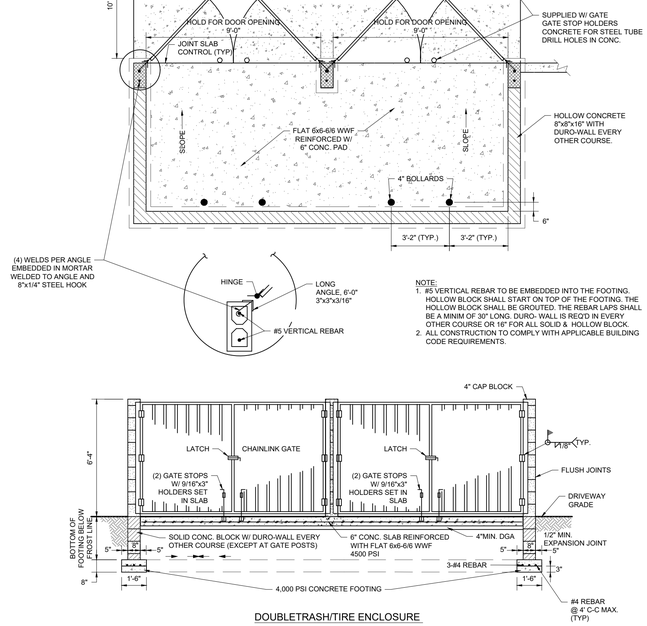
NOT TO SCALE



NOTE:
1. PARKING SPACES AND PARKING AISLE SLOPE MUST NOT EXCEED 1:48 (¼" PER FOOT OR 2%) IN ANY DIRECTION.
2. CURB RAMP SLOPE MUST NOT EXCEED 1:12 (8.3% FOR A MAXIMUM OF 6 FEET).
3. LANDINGS MUST BE PROVIDED AT EACH END OF THE RAMPS AND MUST PROVIDE POSITIVE DRAINAGE, AND MUST NOT EXCEED 1:48 (¼" PER FOOT OR 2%) CROSS SLOPE.
4. A MINIMUM ACCESSIBLE ACCESS ROUTE WIDTH OF 36" MUST BE PROVIDED AND MAINTAINED. A WHEEL STOP CAN BE PROVIDED WHERE NECESSARY TO PREVENT VEHICLE OVERHANG FROM REDUCING THE PATH OF TRAVEL TO LESS THAN 36".
5. VAN SPACE SHALL BE 11 FEET WITH 5 FEET AISLE (EXCEPTION 8 FEET SPACE WITH 8 FEET AISLE.)

8 ADA PARKING STALL MARKING DETAIL

NOT TO SCALE (S070304-01/2013)

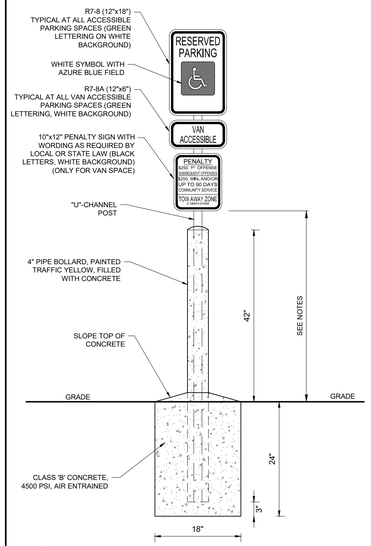


NOTE:
1. #5 VERTICAL REBAR TO BE EMBEDDED INTO THE FOOTING. HOLLOW BLOCK SHALL START ON TOP OF THE FOOTING. THE HOLLOW BLOCK SHALL BE GROUTED. THE REBAR LAPS SHALL BE A MINIM OF 30" LONG. DURO- WALL IS REQD IN EVERY OTHER COURSE OR 16" FOR ALL SOLID & HOLLOW BLOCK.
2. ALL CONSTRUCTION TO COMPLY WITH APPLICABLE BUILDING CODE REQUIREMENTS.

DOUBLETRASH/TIRE ENCLOSURE

9 DOUBLE TRASH ENCLOSURE 9 FT OPENING DETAIL

NOT TO SCALE (S120302-01/2013)



NOTES:
1. THE BOTTOM OF THE LOWEST SIGN SHALL BE MOUNTED APPROXIMATELY 60 INCHES ABOVE THE PARKING LOT OR SIDEWALK SURFACE WHEN SIGN IS PARALLEL TO SIDEWALK AND APPROXIMATELY 72 INCHES ABOVE THE PARKING LOT OR SIDEWALK WHEN THE SIGN IS PERPENDICULAR TO THE SIDEWALK
2. THE PENALTY SIGN SHALL BE CENTERED AND MOUNTED AT THE HEAD OF EACH PARKING SPACE.
3. WHERE VAN SPACES ARE SHOWN ON THE PLANS ADD R7-8a SIGN

10 ADA PARKING SIGN ON BOLLARD

NOT TO SCALE (S070201 - 11/2016)

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CAD I.D.:	J201029-CDS-0B

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PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
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PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
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BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
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REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
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SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C-902

ORG. DATE - 02/01/2022

G:\2020\J201029\DRAWINGS\CURRENT DRAWINGS\SITE PLAN PACKAGE\J201029-CDS-0B-----LAYOUT C-902 DETL

GENERAL INLET NOTES

1. INLETS SHALL MEET H-25 LOADING.
2. INLETS MAY BE CONSTRUCTED OF BRICK, CONCRETE SOLID, CONCRETE BLOCK OR PRECAST CONCRETE. WALLS SHALL BE 8 INCHES THICK IF BRICK AND 6 INCHES THICK IF CONCRETE. CONCRETE BLOCK OR PRECAST CONCRETE. INLET FOUNDATIONS AND INVERTS SHALL BE CLASS B CONCRETE.
3. CORBELLING OF INLET WALLS WILL BE PERMITTED AT THE RATE OF ½ INCH PER 8 INCHES OF HEIGHT; MAXIMUM CORBEL 6 INCHES PER WALL.
4. EXCEPT FOR INLETS TYPE A AND C, FOUNDATIONS AND INVERTS SHALL BE CONSTRUCTED IN TWO STAGES, AND THE BOTTOM OF THE FOOTINGS SHALL BE 8 INCHES BELOW THE OUTER WALL OF THE LOWEST PIPE IN THE INLET.
5. WHEN THE DEPTH OF AN INLET THAT IS NOT PRECAST EXCEEDS 10 FEET AS MEASURED FROM TOP OF GRATE TO INVERT, WALLS BELOW A DEPTH OF 8 FEET SHALL BE 12 INCHES THICK AND THE DEPTH OF FOUNDATION INCREASED TO 12 INCHES. WHEN ROCK IS ENCOUNTERED, THE DEPTH OF THE FOUNDATIONS SHALL NOT BE INCREASED.
6. INLET FOUNDATIONS WHICH ARE PRECAST SHALL BE PLACED ON A 6 INCH THICK BED OF COMPACTED COARSE AGGREGATE SIZE NO. 57. THE COARSE AGGREGATE SHALL EXTEND 6 INCHES BEYOND THE HORIZONTAL LIMITS OF THE INLET FOUNDATION.
7. CASTINGS FOR PRECAST INLETS SHALL BE ADJUSTED TO GRADE WITH COURSES OF BRICK, AS REQUIRED, 12 INCHES MAXIMUM.
8. WHEN THE DEPTH OF A PRECAST INLET EXCEEDS 10 FEET AS MEASURED FROM TOP OF GRATE TO INVERT, THE FOUNDATION SHALL BE INCREASED TO 12 INCHES. WHEN ROCK IS ENCOUNTERED, THE DEPTH OF THE FOUNDATION SHALL NOT BE INCREASED.
9. MINIMUM WALL REINFORCEMENT FOR PRECAST INLETS TYPES A, B, C, E, D-1, AND B MODIFIED:

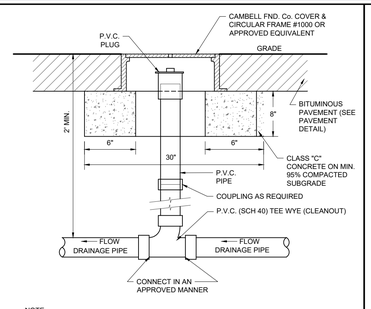
DEPTH BELOW TOP OF GRATE	HORIZONTAL REINF.	VERTICAL REINF.	WALL THK.
0' TO 10'-0"	#4 @ 10" C.C.	#4 @ 18" C.C.	6"
10'-1" TO 15'-0"	#4 @ 8" C.C.	#4 @ 18" C.C.	6"
15'-1" TO 20'-0"	#4 @ 6" C.C.	#4 @ 18" C.C.	6"

REINFORCING SHOWN FOR PRECAST INLETS IS THE MINIMUM REQUIRED. ADDITIONAL REINFORCING FOR HANDLING IS THE RESPONSIBILITY OF THE CONTRACTOR.

ALTERNATE REINFORCEMENT DEPTH BELOW TOP OF GRATE	
0' TO 10'-0"	WWF 3X6 W6 WIRES SPACED AT 3" TO RUN HORIZONTAL IN ALL CASES.
10'1" TO 15'-0"	WWF 3X6 W6 ADD #10 BAR @ 18" HORIZONTAL.
15'1" TO 20'-0"	WWF 3X6 ADD #10 BAR @ 9" HORIZONTAL OR ADD #13 BAR AT 15" HORIZONTAL.

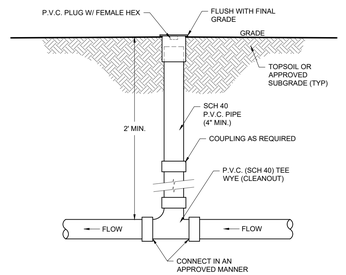
10. ALL INLETS AND MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ITS AMENDMENTS.
11. FOR CAST IRON CLASS 30 B ONLY. ANY OTHER CLASS OF CAST IRON OR TYPE OF MATERIAL MUST BE ON THE BUREAU OF MATERIALS APPROVED PRODUCTS LIST OR NEW TECHNOLOGIES AND PRODUCTS APPROVED PRODUCTS LIST.
12. ALL PIPES SHALL EXTEND NO MORE THAN 1 INCH INTO THE STRUCTURE.
13. A 2500 PSI MIN. CONCRETE PIPE FLOW CHANNEL SHALL BE INSTALLED IN THE STRUCTURE BOTTOM, AFTER ALL THE PIPES ARE INSTALLED, OR THE FLOW CHANNELS CAN BE PRECAST WITH THE BASE.
14. INSIDE DIMENSIONS OF STRUCTURES ARE NOMINAL AND ARE SUBJECT TO MODIFICATION BY PRE CASTER AS NECESSARY TO ACCOMMODATE ACTUAL PIPE SIZES AND ALIGNMENT. STRUCTURES LARGER THAN THAT SHOWN SHALL HAVE A SLAB TOP WHICH SHALL MEET THE SAME LOADING REQUIREMENTS AS THE FRAME.

1 GENERAL INLET NOTES
NOT TO SCALE (G020001-01/2013)



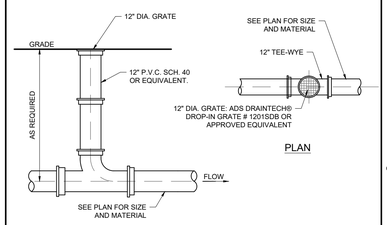
NOTE:
1. BRASS PLUG TO BE USED WHEN CLEANOUT IS PROPOSED IN PAVEMENT AREAS, IF H-25 TRUCK LOADING IS PROPOSED TO BE USED ON SITE.
2. PIPE SIZE, MATERIAL AND INSTALLATION THEREOF TO CONFORM TO PLUMBING CODE.

2 ROOF DRAIN CLEANOUT IMPERVIOUS SURFACES DETAIL
NOT TO SCALE (G020107-01/2013)

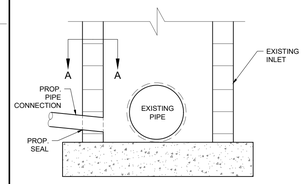


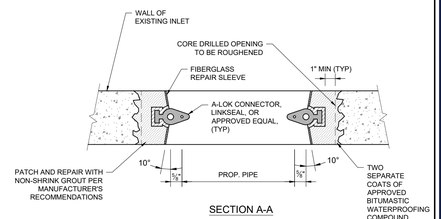
NOTE:
PIPE SIZE, MATERIAL AND INSTALLATION THEREOF TO CONFORM TO PLUMBING CODE.

3 ROOF DRAIN CLEANOUT LANDSCAPE AREAS DETAIL
NOT TO SCALE (G020110-01/2013)



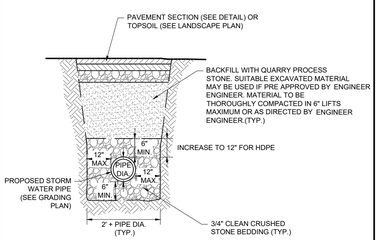
4 12" YARD INLET DETAIL
NOT TO SCALE (G020301-01/2013)





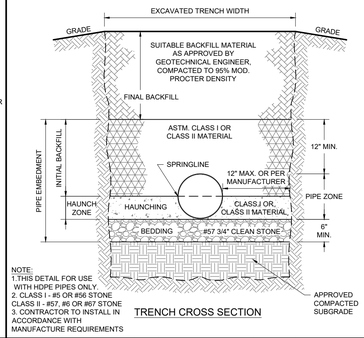
NOTE:
CLEAN & LUBRICATE A-LOK CONNECTOR AND THE PIPE END WHICH WILL BE INSERTED INTO A-LOK PRIOR TO MAKING CONNECTION.

5 PIPE TO EXISTING INLET CONNECTION DETAIL
NOT TO SCALE (G029902-01/2013)



NOTE: PAVEMENT SECTION TO MATCH, AT MINIMUM, ADJOINING PAVEMENT.

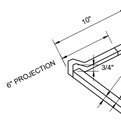
6 STORM TRENCH & PAVEMENT RESTORATION DETAIL
NOT TO SCALE (G029907-04/2019)



NOTE:
1.THIS DETAIL FOR USE WITH HDPE PIPES ONLY.
2. CLASS I - #5 OR #56 STONE CLASS II - #57, #6 OR #67 STONE
3. CONTRACTOR TO INSTALL IN ACCORDANCE WITH MANUFACTURE REQUIREMENTS

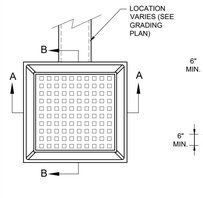
TRENCH CROSS SECTION

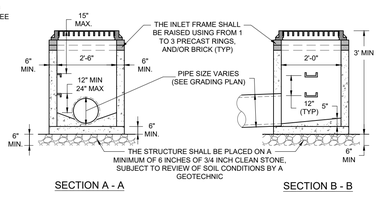
7 STORM TRENCH FOR HDPE PIPE DETAIL
NOT TO SCALE (G029911-01/2013)



NOTES:
1. STEPS SHALL BE POLYPROPYLENE WITH ½" ASTM A-615 STEEL REINFORCEMENT MIN. 3" INBEDMENT IN ACCORDANCE WITH ASTM C-478 AND O.S.H.A. STANDARDS.
2. ALL MANHOLE STEPS TO MEET OR EXCEED ASTM AND O.S.H.A. REQUIREMENTS.
3. FOR ROADWAY LOCATIONS STEPS SHALL BE ORIENTED TO ALLOW VIEWING OF ONCOMING TRAFFIC WHEN EXITING STRUCTURE.

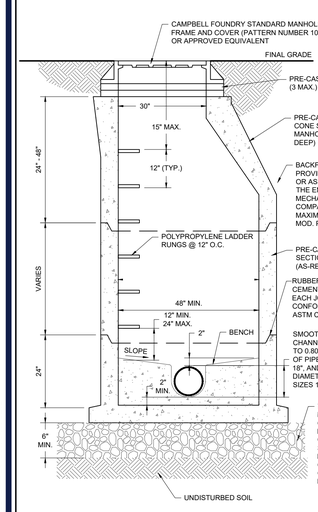
8 MANHOLE POLYPROPYLENE LADDER RUNG DETAIL
NOT TO SCALE (G020405-01/2013)





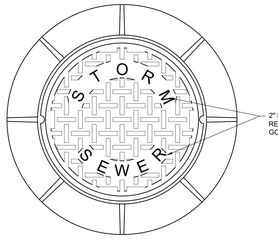
NOTES:
1. THE YARD INLET (2'0" x 2'6") STRUCTURE SHALL BE PRECAST CONCRETE TO MEET A MINIMUM OF H-25 LOADING. ALL UNITS SHALL BE CONSTRUCTED AND REINFORCED IN ACCORDANCE WITH THE APPROPRIATE ASTM, ACI, AND AASHTO STANDARDS. ALL PRECAST SECTIONS SHALL BE JOINED USING A GASKET AND CEMENT GROUT TO PRODUCE A "LEAK-PROOF" JOINT. THE STRUCTURE SHALL NOT BE PLACED IN A PAVED AREA, OR IN OTHER AREAS WHERE HIGH LOADS MAY BE INCURRED.
2. THE INLET FRAME AND GRATE/COVER SHALL BE FABRICATED FOR "HEAVY DUTY".
3. THE INLET FRAME AND GRATE/COVER SHALL BE CAMPBELL FOUNDRY PATTERN NO. 3084 OR APPROVED EQUAL.
4. ALL PIPES SHALL EXTEND NO MORE THAN 1 INCH INTO THE STRUCTURE.
5. A 2500 PSI MIN. CONCRETE PIPE FLOW CHANNEL SHALL BE INSTALLED IN THE STRUCTURE BOTTOM, AFTER ALL THE PIPES ARE INSTALLED, OR THE FLOW CHANNELS CAN BE PRECAST WITH THE BASE.
6. LADDER RUNGS SHOULD NOT BE INSTALLED OVER PIPE OPENINGS.

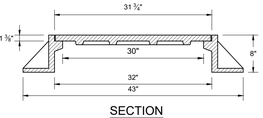
9 YARD INLET 2'-0" x 2'-6" DETAIL
NOT TO SCALE (G020311-01/2013)



NOTES:
1. THE STORM MANHOLE CONCRETE STRUCTURE MUST BE PRECAST CONCRETE TO MEET A MINIMUM OF HS-25 LOADING. ALL UNITS SHALL BE CONSTRUCTED AND REINFORCED IN ACCORDANCE WITH THE APPROPRIATE ASTM, ACI, AND AASHTO STANDARDS. ALL PRECAST SECTIONS SHALL BE JOINED USING A GASKET AND CEMENT GROUT TO PRODUCE A LEAK-PROOF JOINT.
2. THE INLET FRAME AND GRATE/COVER SHALL BE CAMPBELL FOUNDRY PATTERN NO. 1012D, OR APPROVED EQUAL.
3. ALL PIPES SHALL EXTEND NO MORE THAN 1 INCH INTO THE STRUCTURE.
4. SUITABLE EXCAVATED SOIL MAY BE USED AS BACKFILL IN NON-STRUCTURALLY SUPPORTING AREAS OR AS DIRECTED BY THE MUNICIPAL ENGINEER. AREAS SUPPORTING ANY STRUCTURE SHALL BE BACKFILLED USING DENSE GRADED AGGREGATE OR AS DIRECTED BY THE ENGINEER.
5. THE INSIDE DIAMETER IS A MINIMUM DIMENSION. INSIDE DIAMETER TO BE ADJUSTED AS NECESSARY TO ACCOMMODATE STORM PIPE SIZES AND ALIGNMENT.

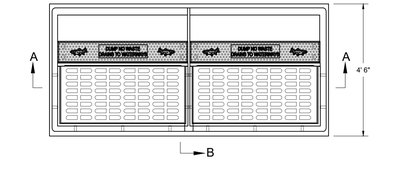
10 STORM MANHOLE DETAIL
NOT TO SCALE (G020407-04/2019)



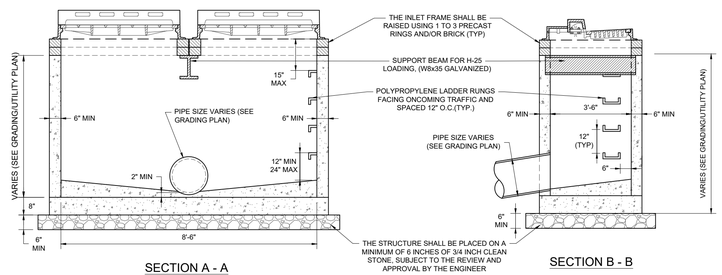


NOTES:
1. STANDARD MANHOLE FRAMES & COVERS SHALL BE USED ON ALL MANHOLES NOT LOCATED WITHIN EASEMENTS UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR SEWICE AUTHORITY.
2. STANDARD MANHOLE FRAME & COVER SHALL BE CAMPBELL FOUNDRY PATTERN #1012B, OR APPROVED EQUAL, WITH NON-PENETRATING PICK HOLES.

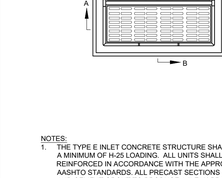
11 STORM MANHOLE FRAME & COVER DETAIL
NOT TO SCALE (G020410-01/2013)

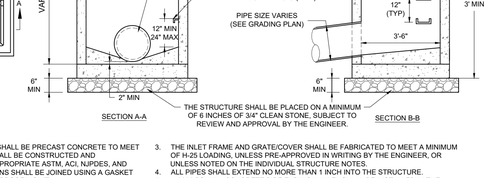


NOTES:
1. THE TYPE B INLET CONCRETE STRUCTURE SHALL BE PRECAST CONCRETE TO MEET A MINIMUM OF H-25 LOADING. ALL UNITS SHALL BE CONSTRUCTED AND REINFORCED IN ACCORDANCE WITH THE APPROPRIATE ASTM, ACI, NJPDES, AND AASHTO STANDARDS. ALL PRECAST SECTIONS SHALL BE JOINED USING A GASKET AND CEMENT GROUT TO PRODUCE A "LEAK-PROOF" JOINT.
2. THE INLET GRATE SHALL BE BICYCLE SAFE WITH A CURB PIECE OF TYPE "N-ECO" AS DEFINED BY CAMPBELL FOUNDRY COMPANY PATTERN NO. 2618, OR EQUIVALENT. CONTRACTOR TO VERIFY WITH MUNICIPALITY THE TYPE OF ECO CURB PIECE AND GRATE TO BE USED.
3. THE INLET FRAME AND GRATE/COVER SHALL BE FABRICATED TO MEET A MINIMUM OF H-25 LOADING, UNLESS PRE-APPROVED IN WRITING BY THE ENGINEER, OR UNLESS NOTED ON THE INDIVIDUAL STRUCTURE NOTES.
4. ALL PIPES SHALL EXTEND NO MORE THAN 1 INCH INTO THE STRUCTURE.
5. A 3000 PSI MIN. CONCRETE PIPE FLOW CHANNEL SHALL BE INSTALLED IN THE STRUCTURE BOTTOM, AFTER ALL THE PIPES ARE INSTALLED, OR THE FLOW CHANNELS CAN BE PRECAST WITH THE BASE.
6. THE CLEAR SPACE IN THE CURB OPENING (OR EACH INDIVIDUAL CLEAR SPACE, IF THE CURB OPENING HAS 2 OR MORE CLEAR SPACES) MUST HAVE AN AREA OF NO MORE THAN 7 SQUARE INCHES OR BE NO GREATER THAN 2 INCHES ACROSS THE SMALLEST DIMENSION.
7. STORM DRAIN INLET LABEL SHOULD READ "DUMP NO WASTE, DRAINS TO WATERWAYS" OR OTHERWISE APPROVED BY THE ENGINEER. FISH LOGOS SHALL ALSO BE INCLUDED ON BOTH SIDES OF THE LABEL.
8. DETAIL IS FOR CAST IRON CLASS 30B ONLY. ANY OTHER CLASS OF CAST IRON OR TYPE OF MATERIAL MUST BE ON THE BUREAU OF MATERIALS APPROVED PRODUCTS LIST OR NEW TECHNOLOGY'S AND PRODUCTS APPROVED PRODUCTS LIST.
9. LADDER RUNGS SHOULD NOT BE INSTALLED OVER PIPE OPENINGS.
10. INSIDE DIMENSIONS ARE NOMINAL AND ARE SUBJECT TO MODIFICATION BY PRE CASTER AS NECESSARY TO ACCOMMODATE ACTUAL PIPE SIZES AND ALIGNMENT. STRUCTURES LARGER THAN THAT SHOWN SHALL HAVE A SLAB TOP WHICH SHALL MEET THE SAME LOADING REQUIREMENTS.



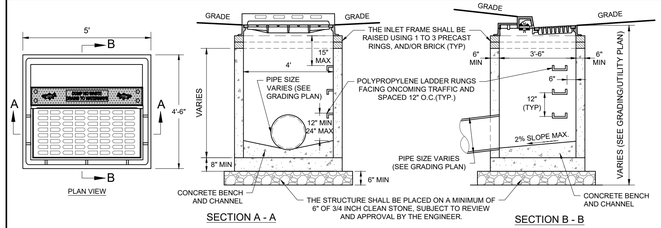
12 TYPE 'B' DOUBLE INLET WITH ECO CURE PIECE DETAIL
NOT TO SCALE (G020307-01/2013)





NOTES:
1. THE TYPE E INLET CONCRETE STRUCTURE SHALL BE PRECAST CONCRETE TO MEET A MINIMUM OF H-25 LOADING. ALL UNITS SHALL BE CONSTRUCTED AND REINFORCED IN ACCORDANCE WITH THE APPROPRIATE ASTM, ACI, NJPDES, AND AASHTO STANDARDS. ALL PRECAST SECTIONS SHALL BE JOINED USING A GASKET AND CEMENT GROUT TO PRODUCE A "LEAK-PROOF" JOINT.
2. THE INLET GRATE SHALL BE BICYCLE SAFE AS DEFINED BY CAMPBELL FOUNDRY COMPANY PATTERN NO. 3425, OR EQUIVALENT. CONTRACTOR TO VERIFY WITH MUNICIPALITY IF AN "ECO" MESSAGE SHALL BE INCORPORATED INTO THE CASTING.
3. THE INLET FRAME AND GRATE/COVER SHALL BE FABRICATED TO MEET A MINIMUM OF H-25 LOADING, UNLESS PRE-APPROVED IN WRITING BY THE ENGINEER, OR UNLESS NOTED ON THE INDIVIDUAL STRUCTURE NOTES.
4. ALL PIPES SHALL EXTEND NO MORE THAN 1 INCH INTO THE STRUCTURE.
5. A 3000 PSI MIN. CONCRETE PIPE FLOW CHANNEL SHALL BE INSTALLED IN THE STRUCTURE BOTTOM, AFTER ALL THE PIPES ARE INSTALLED, OR THE FLOW CHANNELS CAN BE PRECAST WITH THE BASE.
6. DETAIL IS FOR CAST IRON CLASS 30B ONLY. ANY OTHER CLASS OF CAST IRON OR TYPE OF MATERIAL MUST BE ON THE BUREAU OF MATERIALS APPROVED PRODUCTS LIST OR NEW TECHNOLOGY'S AND PRODUCTS APPROVED PRODUCTS LIST.
7. LADDER RUNGS SHOULD NOT BE INSTALLED OVER PIPE OPENINGS.

13 TYPE 'E' INLET DETAIL
NOT TO SCALE (G020310-01/2013)



NOTES:
1. THE TYPE B INLET CONCRETE STRUCTURE SHALL BE PRECAST CONCRETE TO MEET A MINIMUM OF H-25 LOADING. ALL UNITS SHALL BE CONSTRUCTED AND REINFORCED IN ACCORDANCE WITH THE APPROPRIATE ASTM, ACI, NJPDES, AND AASHTO STANDARDS. ALL PRECAST SECTIONS SHALL BE JOINED USING A GASKET AND CEMENT GROUT TO PRODUCE A "LEAK-PROOF" JOINT.
2. THE INLET GRATE SHALL BE BICYCLE SAFE WITH A CURB PIECE OF TYPE "N-ECO" AS DEFINED BY CAMPBELL FOUNDRY COMPANY PATTERN NO. 2618, OR EQUIVALENT. CONTRACTOR TO VERIFY WITH MUNICIPALITY THE TYPE OF ECO CURB PIECE AND GRATE TO BE USED.
3. THE INLET FRAME AND GRATE/COVER SHALL BE FABRICATED TO MEET A MINIMUM OF H-25 LOADING, UNLESS PRE-APPROVED IN WRITING BY THE ENGINEER, OR UNLESS NOTED ON THE INDIVIDUAL STRUCTURE NOTES.
4. ALL PIPES SHALL EXTEND NO MORE THAN 1 INCH INTO THE STRUCTURE.
5. A 3000 PSI MIN. CONCRETE PIPE FLOW CHANNEL SHALL BE INSTALLED IN THE STRUCTURE BOTTOM, AFTER ALL THE PIPES ARE INSTALLED, OR THE FLOW CHANNELS CAN BE PRECAST WITH THE BASE
6. THE CLEAR SPACE IN THE CURB OPENING (OR EACH INDIVIDUAL CLEAR SPACE, IF THE CURB OPENING HAS 2 OR MORE CLEAR SPACES) MUST HAVE AN AREA OF NO MORE THAN 7 SQUARE INCHES OR BE NO GREATER THAN 2 INCHES ACROSS THE SMALLEST DIMENSION.
7. STORM DRAIN INLET LABEL SHOULD READ "DUMP NO WASTE, DRAINS TO WATERWAYS" OR OTHERWISE APPROVED BY THE ENGINEER. FISH LOGOS SHALL ALSO BE INCLUDED ON BOTH SIDES OF THE LABEL.
8. DETAIL IS FOR CAST IRON CLASS 30B ONLY. ANY OTHER CLASS OF CAST IRON OR TYPE OF MATERIAL MUST BE ON THE BUREAU OF MATERIALS APPROVED PRODUCTS LIST OR NEW TECHNOLOGY'S AND PRODUCTS APPROVED PRODUCTS LIST.
9. LADDER RUNGS SHOULD NOT BE INSTALLED OVER PIPE OPENINGS.
10. INSIDE DIMENSIONS ARE NOMINAL AND ARE SUBJECT TO MODIFICATION BY PRE CASTER AS NECESSARY TO ACCOMMODATE ACTUAL PIPE SIZES AND ALIGNMENT. STRUCTURES LARGER THAN THAT SHOWN SHALL HAVE A SLAB TOP WHICH SHALL MEET THE SAME LOADING REQUIREMENTS.

14 TYPE 'B' INLET WITH ECO CURB PIECE DETAIL
NOT TO SCALE (G020308.01-01/2013)

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PROJECT No.:	J201029
DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-CDS-0B

PROJECT:
PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE
REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

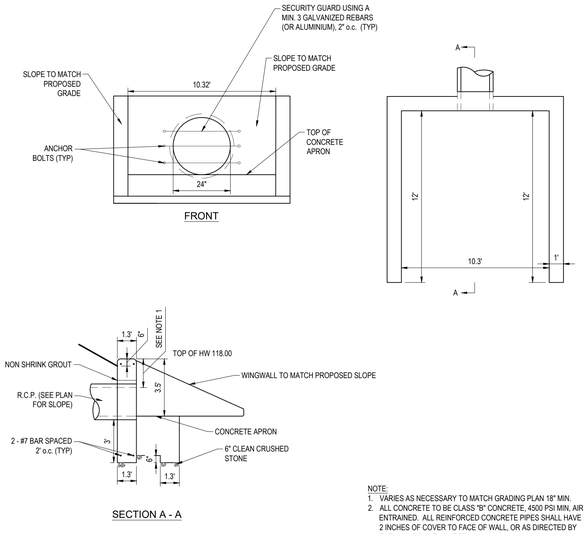
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BOHLER ENGINEERING NJ, LLC
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OHIO LICENSE No. 76297

SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C-903

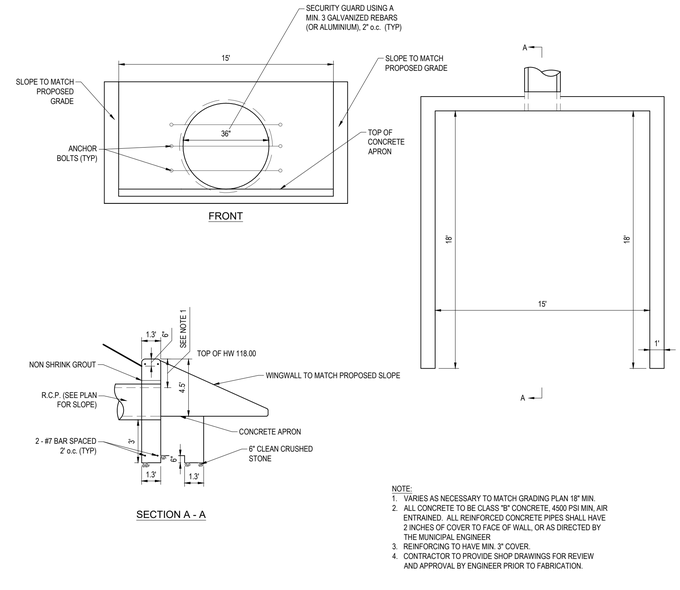
ORG. DATE - 02/01/2022



NOTE:
1. VARIES AS NECESSARY TO MATCH GRADING PLAN 18" MIN.
2. ALL CONCRETE TO BE CLASS "B" CONCRETE, 4500 PSI MIN, AIR ENTRAINED. ALL REINFORCED CONCRETE PIPES SHALL HAVE 2 INCHES OF COVER TO FACE OF WALL, OR AS DIRECTED BY THE MUNICIPAL ENGINEER
3. REINFORCING TO HAVE MIN. 3" COVER.
4. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY ENGINEER PRIOR TO FABRICATION.

1 HEADWALL #1 CAST IN PLACE DETAIL

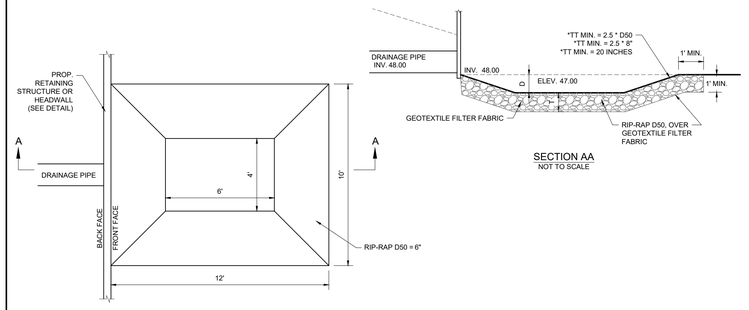
NOT TO SCALE (G020204-01/2013) (MODIFIED)



NOTE:
1. VARIES AS NECESSARY TO MATCH GRADING PLAN 18" MIN.
2. ALL CONCRETE TO BE CLASS "B" CONCRETE, 4500 PSI MIN, AIR ENTRAINED. ALL REINFORCED CONCRETE PIPES SHALL HAVE 2 INCHES OF COVER TO FACE OF WALL, OR AS DIRECTED BY THE MUNICIPAL ENGINEER
3. REINFORCING TO HAVE MIN. 3" COVER.
4. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY ENGINEER PRIOR TO FABRICATION.

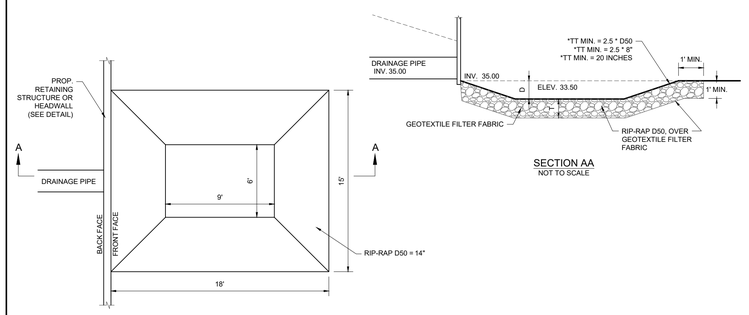
2 HEADWALL #2 CAST IN PLACE DETAIL

NOT TO SCALE (G020204-01/2013) (MODIFIED)



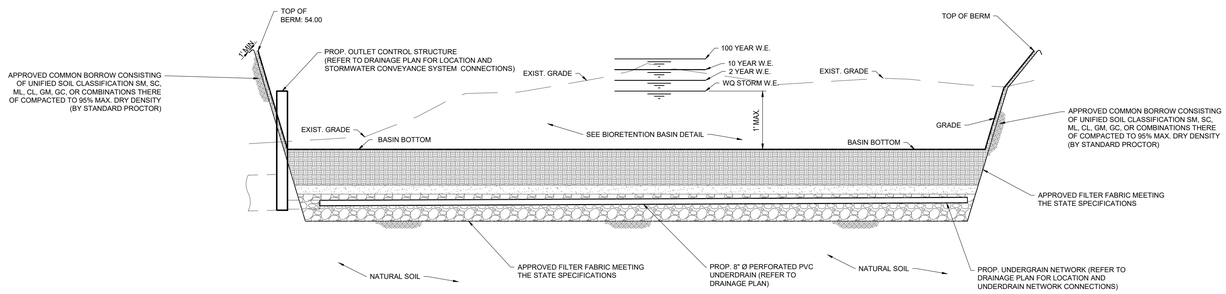
3 SCOUR HOLE #1 DETAIL

NOT TO SCALE (O999908 - 09/2016)



4 SCOUR HOLE #2 DETAIL

NOT TO SCALE (O999908 - 09/2016)

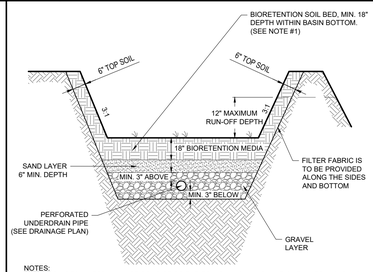


SPECIFICATION TABLE

BIO-RETENTION BASIN	BASIN BOTTOM	ESHGW	WQ STORM	2-YEAR STORM	10-YEAR STORM	100-YEAR STORM	TOP OF BERM
BR 1	48.00	41.30	48.33	48.48	48.61	48.84	49.50

5 BIORETENTION BASIN CROSS SECTION DETAIL

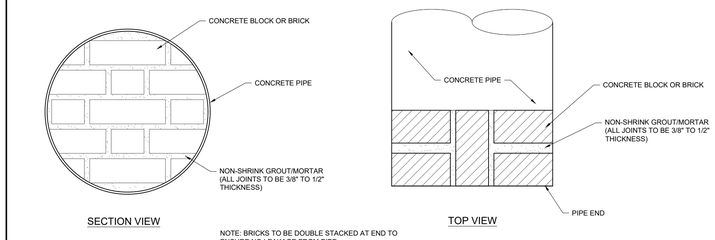
NOT TO SCALE



NOTES:
1. THE SOIL BED MATERIAL MUST CONSIST OF THE FOLLOWING MIX, BY WEIGHT: 85 TO 95% SAND, WITH NO MORE THEN 25% OF SAND DEFINED AS FINE OR VERY FINE SANDS, NO MORE THEN 15% SILT AND CLAY WITH 2% TO 5% CLAY CONTENT. THE ENTIRE MIX MUST THEN BE AMENDED WITH 3 TO 7% ORGANICS BY WEIGHT. PH OF SOIL BED MATERIAL MUST RANGE FROM 5.5 TO 6.5.
2. PRE-MIXED SOIL MUST BE CERTIFIED TO BE CONSISTENT WITH REQUIREMENT BY EITHER VENDOR OR BY PROFESSIONAL ENGINEER.
3. SOIL BED MATERIAL MUST BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES.

6 BIORETENTION BASIN DETAIL

NOT TO SCALE (CUSTOM - 01/2021)



NOTE: BRICKS TO BE DOUBLE STACKED AT END TO ENSURE NO LEAKAGE FROM PIPE

7 STORM PIPE CAPPED END DOUBLE BRICK DETAIL

NOT TO SCALE (G029909-01/2013)

G:\2020\J201029\DRAWINGS\CURRENT DRAWINGS\SITE PLAN PACKAGE\J201029-CDS-0B.----LAYOUT: C-904 DETL
AM

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PROJECT No.:	J201029
DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-CDS-0B

PROJECT:
PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

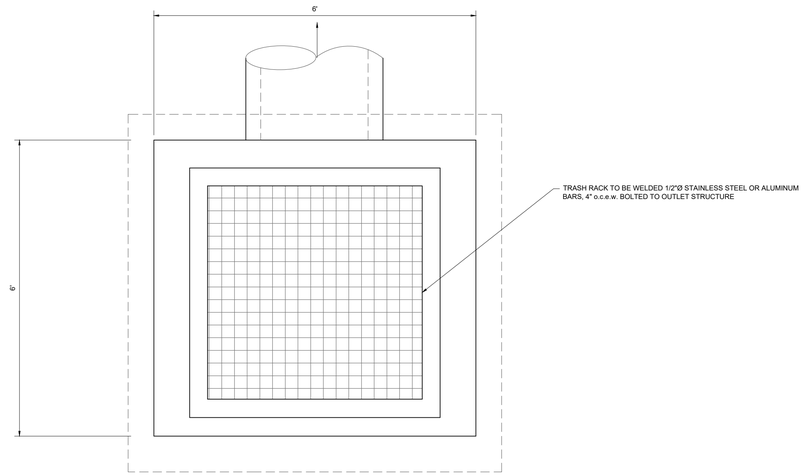
BOHLER
BOHLER ENGINEERING NJ, LLC
30 INDEPENDENCE BLVD., SUITE 200
WARREN, NJ 07059
Phone: (908) 668-8300
Fax: (908) 754-4401
www.BohlerEngineering.com
NJ CERT. OF AUTHORIZATION NO: 24GA28161700 & MH000122

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DELAWARE LICENSE No. 17111
OHIO LICENSE No. 76297

SHEET TITLE:
DETAIL SHEET

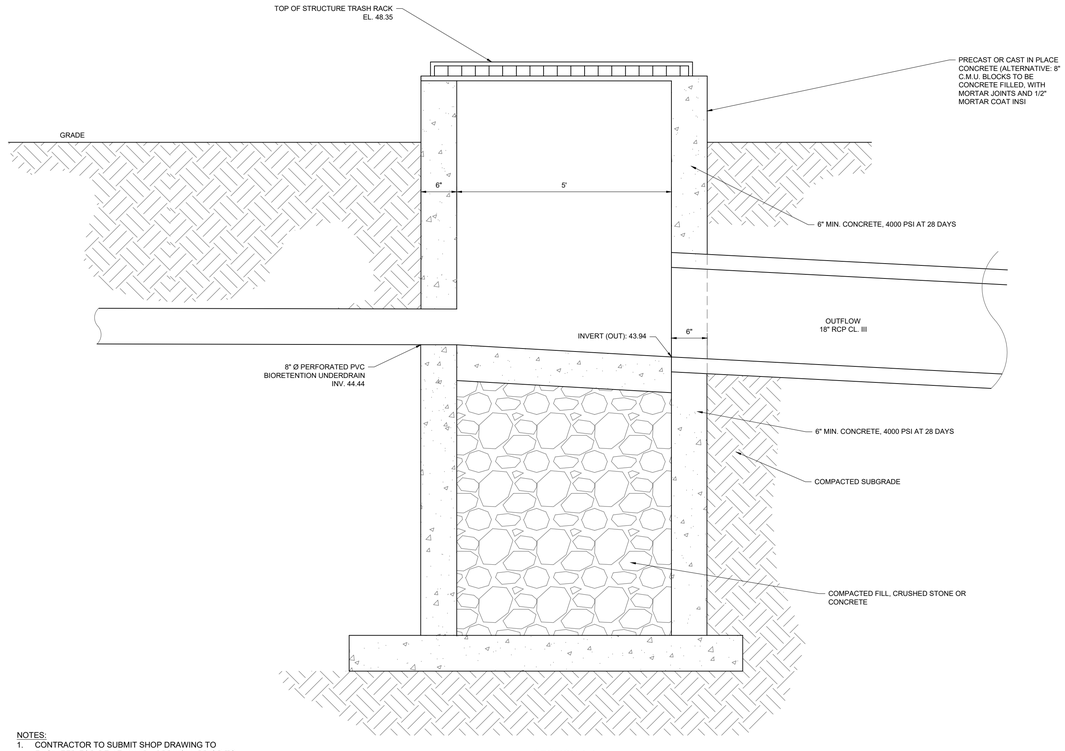
SHEET NUMBER:
C-904

ORG. DATE - 02/01/2022



PLAN VIEW

FRONT ELEVATION



SECTION A-A

NOTES:
1. CONTRACTOR TO SUBMIT SHOP DRAWING TO ENGINEER FOR REVIEW AND APPRAISAL PRIOR TO FABRICATION.
2. CONCRETE TO BE MINIMUM 4000 PSI @ 28 DAYS.
3. PROVIDE LADDER RUNGS FOR STRUCTURES GREATER THAN 3 FT DEEP FROM TOP TO OUTLET INVERT.
4. IF COMPONENTS ARE PRECAST AND ATTACHED IN THE FIELD ALL JOINTS TO BE FILLED WITH NON-SHRINK GROUT. ANY BOLTS AND/OR STRAPS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

1

BIORETENTION BASIN OUTLET CONTROL STRUCTURE

NOT TO SCALE

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J:\2020\J201029\DRAWINGS\CURRENT DRAWINGS\SITE PLAN PACKAGE\J201029-CDS-0B.dwg, --- LAYOUT: C-903 DETL

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CHECKED BY: AS/BAB
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CAD I.D.: J201029-CDS-0B

PROJECT:

PRELIMINARY & FINAL MAJOR SITE PLANS

FOR

LAWRENCE LOGISTICS CENTER

PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
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SHEET TITLE:

DETAIL SHEET

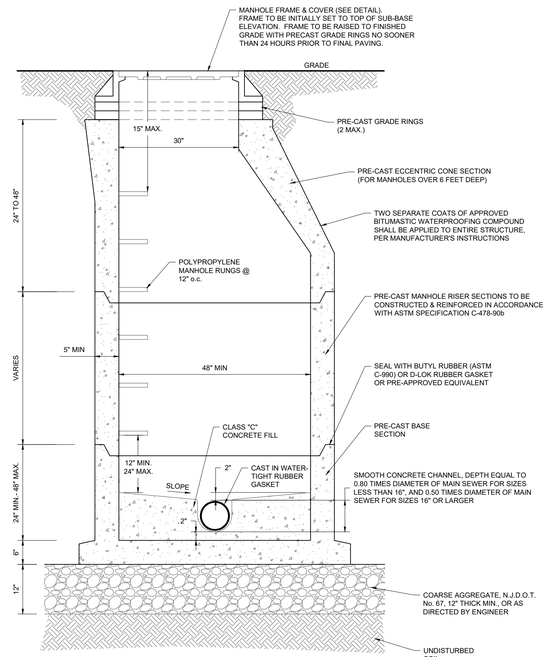
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ORG. DATE - 02/01/2022

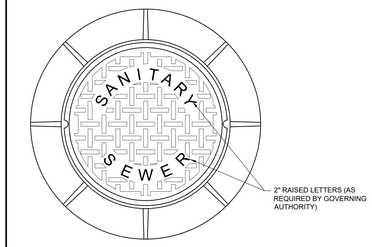
SPECIFICATIONS:

- THE CONCRETE SHALL HAVE A MIN. DESIGN STRENGTH OF 4000 PSI IN 28 DAYS.
- THE REINFORCING STEEL SHALL HAVE A YIELD STRENGTH OF 60,000 PSI.
- THE MANHOLE SHALL MEET THE REQUIREMENTS OF ASTM C-478, "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS.."
- THE REINFORCED CONCRETE STRUCTURE SHALL WITHSTAND AASHTO HS-25 LIVE LOAD CONDITIONS (DESIGN OF HATCH AND/OR FRAME AND COVER SEE DETAIL).
- GASKETS SHALL MEET THE REQUIREMENTS OF ASTM C-923 "RESILIENT CONNECTORS BETWEEN REINFORCED CONCRETE MANHOLE STRUCTURES AND PIPES."

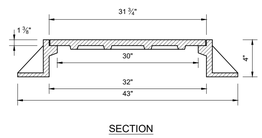


1 PRE-CAST SANITARY MANHOLE DETAIL

NOT TO SCALE (U030203-07/2015)



PLAN



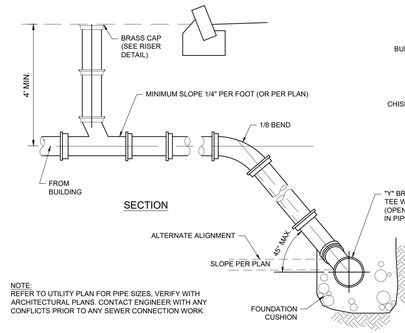
SECTION

NOTES:

1. STANDARD MANHOLE FRAMES & COVERS SHALL BE USED ON ALL MANHOLES NOT LOCATED WITHIN EASEMENTS UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR SEWER AUTHORITY.
2. STANDARD MANHOLE FRAME & COVER SHALL BE CAMPBELL FOUNDRY PATTERN #1012D, OR APPROVED EQUIVALENT, WITH NON-PENETRATING PICK HOLES.
3. WATERTIGHT MANHOLE COVERS SHALL BE USED ON MANHOLES LOCATED WITHIN EASEMENTS, IN UNPAVED AREAS, AND OUTSIDE OF THE CENTERLINE OF PAVED ROADS AS DIRECTED BY ENGINEER OR SEWER AUTHORITY.

2 SANITARY MANHOLE FRAME & COVER DETAIL

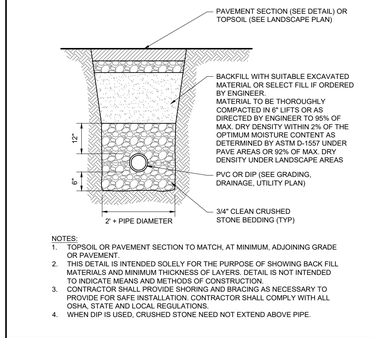
NOT TO SCALE (U030204-01/2013)



NOTE:
REFER TO UTILITY PLAN FOR PIPE SIZES, VERIFY WITH ARCHITECTURAL PLANS. CONTACT ENGINEER WITH ANY CONFLICTS PRIOR TO ANY SEWER CONNECTION WORK.

3 STANDARD CONNECTION DETAIL

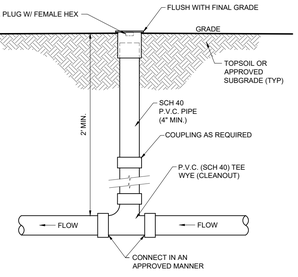
NOT TO SCALE (U039904-01/2013)



NOTES:
1. TOPSOIL OR PAVEMENT SECTION TO MATCH, AT MINIMUM, ADJOINING GRADE OR PAVEMENT.
2. THIS DETAIL IS INTENDED SOLELY FOR THE PURPOSE OF SHOWING BACK FILL MATERIALS AND MINIMUM THICKNESS OF LAYERS. DETAIL IS NOT INTENDED TO INDICATE MEANS AND METHODS OF CONSTRUCTION.
3. CONTRACTOR SHALL PROVIDE SHORING AND BRACING AS NECESSARY TO PROVIDE FOR SAFE INSTALLATION. CONTRACTOR SHALL COMPLY WITH ALL OSHA, STATE AND LOCAL REGULATIONS.
4. WHEN DIP IS USED, CRUSHED STONE NEED NOT EXTEND ABOVE PIPE.

4 SANITARY TRENCH DETAIL

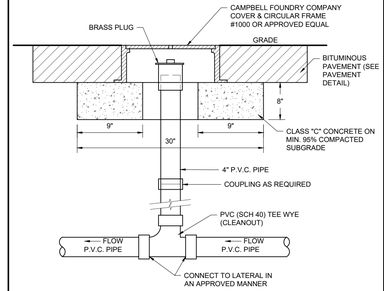
NOT TO SCALE (U039908-04/2019)



NOTE:
PIPE SIZE, MATERIAL AND INSTALLATION THEREOF TO CONFORM TO PLUMBING CODE.

5 SEWER CLEANOUT WITHIN LANDSCAPE AREAS DETAIL

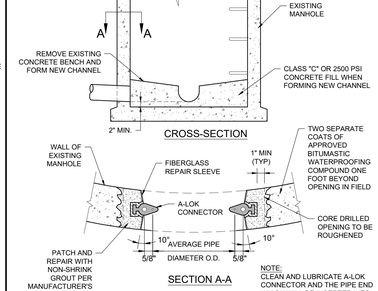
NOT TO SCALE (U030104-01/2014)



NOTE:
PIPE SIZING, MATERIALS AND INSTALLATION TO BE IN COMPLIANCE WITH NJUCC AND NATIONAL STANDARD PLUMBING CODE.

6 SEWER CLEANOUT WITHIN PAVED AREAS DETAIL

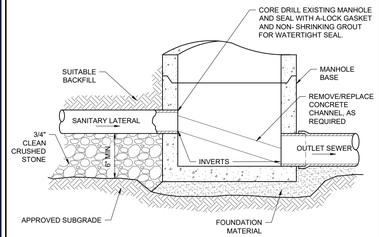
NOT TO SCALE (U030101-01/2013)



NOTE:
CLEAN AND LUBRICATE A-LOK CONNECTOR AND THE PIPE END WHICH WILL BE INSERTED INTO A-LOK PRIOR TO MAKING CONNECTION.

7 PIPE TO EXISTING SANITARY MANHOLE DETAIL

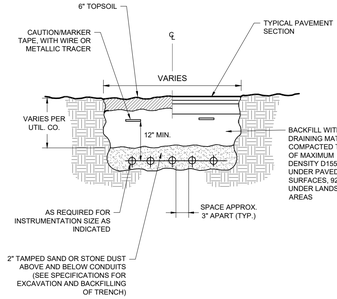
NOT TO SCALE (U030202-01/2013)



NOTE:
1. MAXIMUM DROP BETWEEN INCOMING AND OUTGOING PIPES TO BE 2'. IF OVER 2', DROP MANHOLE IS REQUIRED.
2. SEE GRADING/DRAINAGE/UTILITY PLAN FOR PIPE SIZES, INVERTS AND ELEVATIONS.

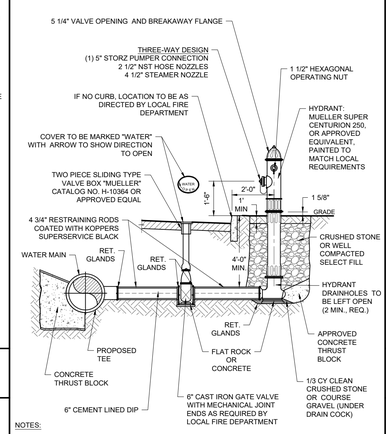
8 SANITARY LATERAL TO MANHOLE CONNECTION DETAIL

NOT TO SCALE (U030102-01/2013)



9 UNDERGROUND UTILITY CONDUIT DETAIL

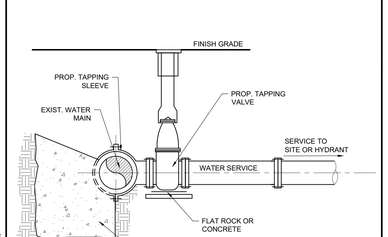
NOT TO SCALE (U039903-01/2013)



NOTES:
1. CONTRACTOR TO CONFIRM TYPE OF HYDRANT TO USE WITH LOCAL WATER PURVEYOR AND LOCAL FIRE DEPT. PRIOR TO ORDERING HYDRANT AND APPURTENANCES.
2. CONTRACTOR TO READ AND REVIEW THE LOCAL FIRE CODE FOR VALVE/HYDRANT SPECIFICATIONS PRIOR TO THE PURCHASE OR INSTALLATION OF ANY EQUIPMENT. ANY QUESTION OF MATERIAL OR REQUIREMENTS TO BE RESOLVED WITH LOCAL FIRE MARSHAL.
3. UNLESS SUPERSEDED BY LOCAL REQUIREMENTS, SIZE, TYPE, AND INSTALLATION OF HYDRANTS SHALL CONFORM TO THE FOLLOWING SPECIFICATION, INCORPORATED HEREIN BY REFERENCE, AS APPROPRIATE:
4. SIZE, TYPE, AND INSTALLATION OF HYDRANTS SHOULD BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY OR THE WATER PURVEYOR, OR SHALL CONFORM TO THE AWWA STANDARD FOR DRY-BARREL FIRE HYDRANTS, ANSI/AWWA C502. HYDRANTS SHALL HAVE AT LEAST THREE (3) OUTLETS: ONE OUTLET SHALL BE A PUMPER OUTLET, THE OTHER OUTLETS SHALL BE AT LEAST TWO AND ONE-HALF (2½) INCH NOMINAL SIZE. THE PUMPER OUTLET SHALL FACE THE STREET. ALL OUTLET NOZZLES SHALL BE AT LEAST 12 INCHES ABOVE THE ADJOINING GRADE. WHEN A CONCRETE SLAB IS PROVIDED AROUND THE HYDRANT RISER, THE FLANGE WHERE THE HYDRANT CONNECTS TO THE RISER SHALL BE AT LEAST TWO INCHES ABOVE THE ADJACENT GRADE. STREET MAIN CONNECTIONS SHALL NOT BE LESS THAN SIX INCHES IN DIAMETER. HOSE THREADS ON OUTLETS SHALL BE COMPATIBLE WITH EXISTING MUNICIPAL EQUIPMENT AND SHALL EITHER CONFORM TO NFPA 1963 OR SHALL MATCH EXISTING MUNICIPAL REQUIREMENTS. A VALVE SHALL BE PROVIDED ON CONNECTIONS BETWEEN HYDRANTS AND STREET MAINS. ALL PIPES, FITTINGS, AND APPURTENANCES SUPPLYING FIRE HYDRANTS SHALL BE AWWA OR ASTM APPROVED. (RSIS)
5. ALL FIRE HYDRANTS SHALL CONFORM TO NFPA STANDARD 291.
6. DISTANCE FROM CURB IS TYPICAL, HOWEVER CONTRACTOR MUST REFER TO UTILITY PLAN FOR HYDRANT LOCATION

10 FIRE HYDRANT DETAIL

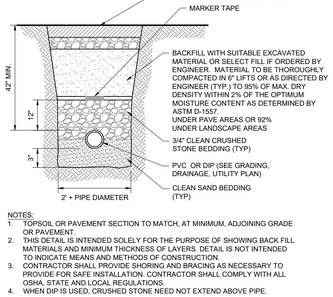
NOT TO SCALE (U049901-01/2017)



NOTE:
WET TAP AND VALVE MANUFACTURER SHALL BE DETERMINED BY GOVERNING MUA OR WATER SUPPLIER.

11 WET TAP DETAIL

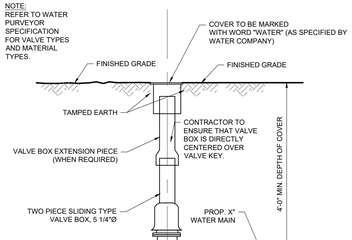
NOT TO SCALE (U049907-01/2013)



NOTES:
1. TOPSOIL OR PAVEMENT SECTION TO MATCH, AT MINIMUM, ADJOINING GRADE OR PAVEMENT.
2. THIS DETAIL IS INTENDED SOLELY FOR THE PURPOSE OF SHOWING BACK FILL MATERIALS AND MINIMUM THICKNESS OF LAYERS. DETAIL IS NOT INTENDED TO INDICATE MEANS AND METHODS OF CONSTRUCTION.
3. CONTRACTOR SHALL PROVIDE SHORING AND BRACING AS NECESSARY TO PROVIDE FOR SAFE INSTALLATION. CONTRACTOR SHALL COMPLY WITH ALL OSHA, STATE AND LOCAL REGULATIONS.
4. WHEN DIP IS USED, CRUSHED STONE NEED NOT EXTEND ABOVE PIPE.

13 WATER PIPE INSTALLATION DETAIL

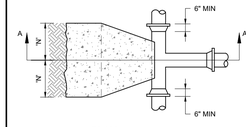
NOT TO SCALE (U049910 - 04/2019)



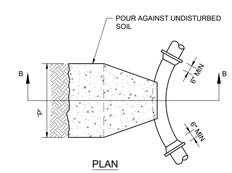
12 GATE VALVE AND BOX DETAIL

NOT TO SCALE (U049904-01/2013)

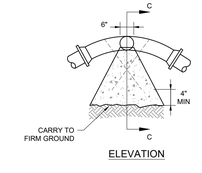
NOTES:
1. THRUST BLOCK DESIGNED FOR 150 LB. PER SQ. IN TEST PRESSURE & 2000 LB. PER SQ. FT. SOIL PRESSURE.
2. 4,000 PSI CONC. @ 28 DAYS (MIN.)
3. ANCHOR STRAPS (#5 BAR) REQUIRED ON ALL MAINS 8" OR LARGER.
4. FITTING AND BOLTS ARE TO BE PROTECTED FROM ACTUAL CONTACT WITH CONCRETE.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SUFFICIENT RESTRAINT IN ACCORDANCE WITH THE ABOVE REQUIREMENTS. ALTERNATE MEANS OF RESTRAINT MAY BE USED IS PRE-APPROVED IN WRITING, BY THE WATER SYSTEM PURVEYOR.



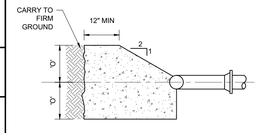
PLAN



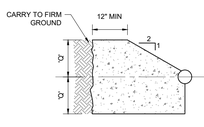
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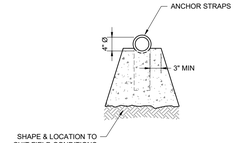
ELEVATION



SECTION A-A
TEES



SECTION B-B
HORIZONTAL & VERTICAL UPWARD BENDS

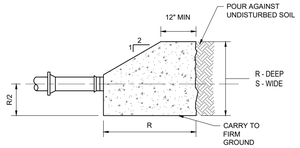


SECTION C-C
VERTICAL UPWARD & DOWNWARD BENDS

THRUST BLOCK FOR TEES, HORIZONTAL & VERTICAL BENDS & PLUGS

	DESCRIPTION	DIMENSION	8"Ø	12"Ø
HORIZ & VERT. UPWARD	TEES	N	1' 2"	1' 8"
		O	1' 2"	1' 8"
	90° BENDS	P	1' 4"	1' 11"
		Q	1' 4"	1' 11"
	45° BENDS	P	1' 0"	1' 5"
		Q	1' 0"	1' 5"
	22 1/2° BENDS	P	0' 9"	1' 0"
		Q	0' 9"	1' 0"
	11 1/4° BENDS	P	0' 6"	0' 9"
		Q	0' 6"	0' 9"
VERTICAL DOWNWARD	45° BENDS	MIN. CONCRETE* ANCHORAGE	1.9 CY	3.9 CY
	22 1/2° BENDS	MIN. CONCRETE* ANCHORAGE	1.0 CY	2.0 CY
	11 1/4° BENDS	MIN. CONCRETE* ANCHORAGE	0.5 CY	1.0 CY
	PLUGS	R	2' - 4"	3' - 4"
		S	2' - 4"	3' - 4"

*MINIMUM CONCRETE ANCHORAGE WITHOUT BACKFILL AND NO GROUND WATER CONDITION



PLUGS

14 THRUST BLOCK DETAILS

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SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
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PERMITTING SERVICES
TRANSPORTATION SERVICES

REVISIONS

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PROJECT No.:	J201029
DRAWN BY:	RND/ATK
CHECKED BY:	AS/BAB
DATE:	02/01/2022
CAD I.D.:	J201029-CDS-08

PROJECT:
PRELIMINARY & FINAL MAJOR SITE PLANS
FOR
LAWRENCE LOGISTICS CENTER
PROP. WAREHOUSE DEVELOPMENT / DISTRIBUTION CENTER
40 ENTERPRISE AVENUE
BLOCK 601, LOTS 1-8
TOWNSHIP OF LAWRENCE
ENTERPRISE AVENUE REDEVELOPMENT AREA
TAX MAP SHEET #6
BLOCK 23201, LOT 1
CITY OF TRENTON
IB (INDUSTRIAL B) DISTRICT
TAX MAP SHEET #232
MERCER COUNTY, NEW JERSEY

BOHLER
BOHLER ENGINEERING NJ, LLC
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WARREN, NJ 07059
Phone: (908) 668-8300
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SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C-906

ORG. DATE - 02/01/2022

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LIGHT POLE FOUNDATION NOTES

1. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND CONDITIONS, COORDINATE WITH ALL CONTRACT DRAWINGS, PROJECT SHOP DRAWINGS AND FIELD CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR MUST ENSURE NO CONFLICTS ARISE BETWEEN LIGHT POLE FOUNDATIONS, STRUCTURES, AND UTILITIES. IF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DESIGN PLANS ARISE, THE ENGINEER MUST BE NOTIFIED IMMEDIATELY IN WRITING.

2. THE CONTRACTOR IS TO HAVE A GEOTECHNICAL ENGINEER, LICENSED IN THE PROJECT'S STATE, ON SITE TO INSPECT FILL, MONITOR FILL COMPACTION AND TO VERIFY SUBGRADE ALLOWABLE BEARING CAPACITY AND SOIL DESIGN CRITERIA PRIOR TO CONSTRUCTION IN ACCORDANCE TO THE DESIGN ASSUMPTIONS STATED. UNSUITABLE MATERIALS FOUND MUST BE REMOVED OR BE REMEDIED AS PER THE DIRECTION OF THE ON SITE GEOTECHNICAL ENGINEER.

3. IF CONDITIONS IN THE FIELD ARE DIFFERENT THAN THOSE INDICATED, THE CONTRACTOR IS TO IMMEDIATELY NOTIFY THE ENGINEER IN WRITING.

4. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT APPROPRIATE SELECT BACKFILL IS USED, AND THOROUGHLY COMPACTED TO 98% MAX. DENSITY ASTM D 698.

5. STRUCTURAL CONCRETE AND CONCRETING PRACTICES SHALL CONFORM WITH ACI-318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE." DETAILS ARE TO BE IN ACCORDANCE WITH ACI-315, "MANUAL OF STANDARD PRACTICE: DETAILS AND DETAILING OF CONCRETE REINFORCEMENT." FORM WORK SHALL CONFORM ACI-347 "GUIDE TO FORM WORK FOR CONCRETE", UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS.

6. CONCRETE MUST BE NORMAL WEIGHT STONE AGGREGATE WITH THE STATED MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS. HISTORICAL DATA OR LABORATORY TESTS FOR THE PRELIMINARY DESIGN MIX IS TO BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION. THE WATER-CEMENT RATIO FOR THE PROPOSED MIX DESIGN MUST ACHIEVE AN AVERAGE 28-DAY STRENGTH OF 1,200 PSI GREATER THAN THE REQUIRED STRENGTH ON LABORATORY TEST RESULTS

7. CONCRETE IS TO HAVE A SLUMP NO GREATER THAN 4" TO WITHIN A TOLERANCE OF 1".

8. EXPOSED CONCRETE IS TO BE AIR ENTRAINED, 6% (WITHIN 1% TOLERANCE), CONFORMING TO ASTM C260.

9. CONCRETE TO BE CONSOLIDATED IN PLACE USING AN INTERNAL VIBRATOR.

10. REINFORCING STEEL BARS SHALL BILLET STEEL, ASTM A615, GRADE 60. ALL REINFORCEMENT TO BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS OR STIRRUPS TO BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS. BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES TO BE PLASTIC TIPPED. ALL ACCESSORIES MUST BE GALVANIZED.

11. ALL SPLICES OF REINFORCING BARS NOT INDICATED ARE TO BE LTS AS PER THE REINFORCING SPLICE SCHEDULE OR 40 BAR DIAMETERS. DISCONTINUOUS ENDS OF CONTINUOUS BARS ARE TO BE STANDARD HOOKS.

12. IF CAVING OF DRILLED HOLES ARE ENCOUNTERED, CONTRACTOR SHALL PROVIDE BENTONITE SLURRY IN PERMANENT CASINGS FOR DRILLED CONCRETE PIER FOUNDATIONS.

13. CONCRETE MUST ATTAIN 80% OF THE DESIGN STRENGTH OR CURE FOR A MINIMUM OF 7-DAYS PRIOR TO THE INSTALLATION OF THE LIGHT POLES OR ALL LIGHT POLES ARE TO BE SUITABLY BRACED AGAINST WIND LOADS DURING THE ABOVE MENTIONED TIMEFRAME.

14. ALL ELECTRICAL COMPONENTS TO COMPLY WITH N.E.C.

15. WHEN 2'-6" CLEARANCE CAN NOT BE PROVIDED, CONCRETE FOUNDATION MUST BE EXTENDED TO 30" ABOVE SURFACE, OR PROVIDE BOLLARD PROTECTION FOR LIGHT POLE.

16. VERIFY WITH LOCATIONS SHOWN ON LIGHTING PLAN

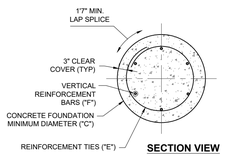
17. CONTRACTOR IS TO RECORD ON A CLEAN COPY OF THE LIGHTING PLANS. THE LOCATION OF CONDUIT SUPPLYING POWER TO LIGHTS. A COMPLETED COPY OF THIS RECORD PLAN IS TO BE PROVIDED TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK.

18. UPON ACCEPTANCE OF THE COMPLETED WORK BY THE OWNER, THE OWNER IS RESPONSIBLE FOR APPROPRIATE MAINTENANCE OF THE LIGHTING SYSTEM

LIGHT POLE FOUNDATION SCHEDULE

MAXIMUM HEIGHT ABOVE GRADE "A" **	25'-0"
ASSUMED AVERAGE POLE DIAMETER "B"	6"
# OF FIXTURES	DOUBLE
MINIMUM FOUNDATION DIAMETER "C"	24"
MINIMUM FOUNDATION DEPTH "D"	6'-0"
REINFORCING TIES "E" *	#3 TIES @12"C-C
VERTICAL HOOKED REINFORCEMENT "F"	(6) #5 BARS

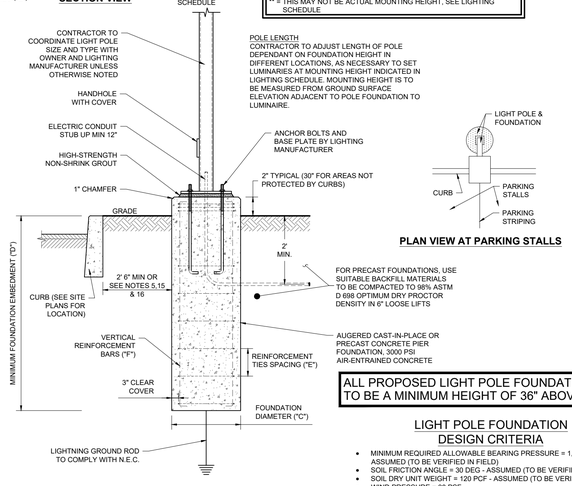
* = ADD 3 TIES, 4" C-C, AT TOP OF THE FOUNDATION
** = THIS MAY NOT BE ACTUAL MOUNTING HEIGHT, SEE LIGHTING SCHEDULE



SECTION VIEW

REFER TO LIGHTING SCHEDULE

POLE LENGTH
CONTRACTOR TO ADJUST LENGTH OF POLE DEPENDANT ON FOUNDATION HEIGHT IN DIFFERENT LOCATIONS, AS NECESSARY TO SET LUMINARIES AT MOUNTING HEIGHT INDICATED IN LIGHTING SCHEDULE. MOUNTING HEIGHT IS TO BE MEASURED FROM GROUND SURFACE ELEVATION ADJACENT TO POLE FOUNDATION TO LUMINAIRE.



ELEVATION VIEW

NOTES:
SEE SCHEDULE AND NOTES FOR ADDITIONAL INFORMATION

PLAN VIEW AT PARKING STALLS

ALL PROPOSED LIGHT POLE FOUNDATIONS ARE TO BE A MINIMUM HEIGHT OF 36" ABOVE GRADE

LIGHT POLE FOUNDATION DESIGN CRITERIA

- MINIMUM REQUIRED ALLOWABLE BEARING PRESSURE = 1,000 PSF - ASSUMED (TO BE VERIFIED IN FIELD)
- SOIL FRICTION ANGLE = 30 DEG - ASSUMED (TO BE VERIFIED IN FIELD)
- SOIL DRY UNIT WEIGHT = 120 PCF - ASSUMED (TO BE VERIFIED IN FIELD)
- WIND PRESSURE = 30 PSF

1 *LIGHT POLE FOUNDATION DETAIL*

NOT TO SCALE (I020101-01/2013)

Catalog # : _____ Project : _____

Prepared By : _____ Date : _____

Steel Poles

Square Straight



QUICK LINKS

Ordering Guide | Configurations | Dimensions | EPA

FEATURES & SPECIFICATIONS

Pole Shaft
- Straight poles are 4", 5", or 6" square.
- Pole shaft is electro-welded ASTM-A500 Grade C steel tubing with a minimum yield strength of 50,000 psi.
- On Tenon Mount steel poles, tenon is 2-3/8" O.D. high-strength pipe. Tenon is 4-3/4" in length.

Hand-Hole
- Standard hand-hole location is 12" above pole base.
- Poles 22' and above have a 3" x 6" reinforced hand-hole. Shorter poles have a 2" x 4" non-reinforced hand-hole.

Base
- Pole base is ASTM-A36 hot-rolled steel plate with a minimum yield strength of 36,000 psi.
- Two-piece square base cover is optional.

Anchor Bolts
- Poles are furnished with anchor bolts featuring zinc-plated double nuts and washers. Galvanized anchor bolts are optional.
- Anchor bolts conform to ASTM F 1554-07a Grade 55 with a minimum yield strength of 55,000 psi.

Ground Lug
- Ground lug is standard.

Duplex Receptacle
- Weatherproof duplex receptacle is optional.

Ground Fault Circuit Interrupter
- Self-testing Ground fault circuit interrupter is optional.

Finishes
- Every pole is provided with the DuraGrip® Protection System and a 5-year limited warranty.
- When the top-of-the line DuraGrip® Plus Protection System is selected, in addition to the DuraGrip® Protection System, a non-porous, automotive-grade corrosion coating is applied to the lower portion of the pole interior, sealing and further protecting it from corrosion. This option extends the limited warranty to 7 years.

Determining The Luminaire/Pole Combination For Your Application:
- Select luminaire from luminaire ordering information
- Select bracket configuration if required
- Determine EPA value from luminaire/bracket EPA chart
- Select pole height
- Select MPH to match wind speed in the application area (See windspeed maps).
- Confirm pole EPA equal to or exceeding value of luminaire/bracket EPA
- Consult factory for special wind load requirements and banner brackets

Pole Vibration Damper
- A pole vibration damper is recommended in open terrain areas of the country where low steady state winds are common.
- Non-tapered poles and lightly loaded poles are more susceptible to destructive vibration if a damper is not installed.

Listings
- UL Listed
- BAA/TAA Compliant

CONTRACTOR TO COORDINATE LIGHT POLE SPECIFICS W/ MANUFACTURER
LIGHT POLE COLOR TO MATCH FIXTURE: BLACK

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Steel Poles - Square Straight

ORDERING GUIDE

Back to Quick Links

TYPICAL ORDER EXAMPLE: **4SQ B3 S11G 24 S PLP DGP**

Pole Series	Mounting Method	Material	Height †	Mounting Configuration	Pole Finish	Options
4SQ – 4" x 4" Square Straight Pole **5SQ** – 5" x 5" Square Straight Pole **6SQ** – 6" x 6" Square Straight Pole	**Bolt-On Mount**[1] – See pole selection guide for patterns and fixture matches. **B3** – 3" Traditional Drilling Pattern **B2** – 2" Reduced Drilling Pattern **T** – Tenon Mount - See pole selection guide for tenon and fixture/bracket matches. **I** – No Mounting Holes[2] - Use with: • BKA 402F & BKA 502F • BKA 340EF & BKA 502EF	S11G – 11 Ga. Steel (4SQ and 5SQ only) S07G – 07 Ga. Steel	8' 10' 12' 13' 14' 15' 16' 17' 17' 5" 18' 20' 22' 22' 6" 23' 24' 25' 26' 27' 28' 30' 32' 35' 39' Height Restriction, Consult Pole Selection Chart on opposite page	S – Single/Parallel D – Double 90° DNS – Double DNW – Double TW – Triple TNY3S – Triple QW – Quad QNW – Quad N – Tenon Mount (Standard tenon size is 2-3/8" O.D.)	BRZ – Bronze BLK – Black PLP – Platinum Plus WHT – White SVG – Satin Verde Green GPT – Graphite MSV – Metallic Silver BZA – Alternate Bronze	CA – Galvanized Anchor Bolts SF – Single Hand-Hole[3] DF – Double Hand-Hole[3] DGP – DuraGrip® Plus LAB – Less Anchor Bolts CRXX - Conduit Raceway[4] Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, except on 39' poles. Maximum height for SF and DF pole preparations on 20' poles is 13' from the base.

Accessory Ordering Information

Description	Order Number
4SC – 4" Square Base Cover	1225980CLR
5SC – 5" Square Base Cover	1225810CLR
6SC – 6" Square Base Cover	1225820CLR
DX2 – Weatherproof Duplex Receptacle	1225990CLR
GFI – Ground Fault Circuit Interrupter	1225870CLR
MHS - mounting Hole Plugs for use with 5" traditional drill pattern (3 set of 3 plugs)	103336
MHS - mounting Hole Plugs for use with 3" reduced drill pattern (3 set of 3 plugs)	681126
MHS - Mounting Hole Plugs for use with 2" reduced drill pattern (3 sets of 3 plugs)	725841

Description	Order Number
Vibration Damper - 4" Square Pole (bolt-on mount only)	173529
Vibration Damper - 5" Square Pole (bolt-on mount only)	173536
Vibration Damper - 6" Square Pole (bolt-on mount only)	178361

FOOTNOTES:
1 - See Area Light Brackets - 3" Reduced Drill Pattern and Area Light Brackets - 5" Traditional Drill Pattern spec sheets.
2 - Pole heights will have +/- 1/2" tolerance.
3 - See Flood Lighting Brackets section for choice of FBO brackets.
4 - CR selection must indicate required height and side of pole mounting location. Mounting template required at time of order.

CONTRACTOR TO ADJUST POLE HEIGHTS (AS REQUIRED) FOR ALL AREA LIGHTS LOCATED ON A 36" HIGH CONCRETE BASE TO ENSURE MAXIMUM HEIGHT IS COMPLIANT PER THE APPROVED PLANS. ALL LIGHT POLES ARE TO BE LOCATED A MINIMUM OF 2.5' BEHIND CURBS.

2 *LIGHT POLE SPECIFICATION*

NOT TO SCALE SOURCE: LSI INDUSTRIES INC.

chargepoint

CT4000 Family

ChargePoint® Level 2 Commercial Charging Stations



The CT4000 family is the latest generation of ChargePoint commercial charging stations. Refined yet rugged, these stations set the industry standard for functionality and aesthetics.

The CT4000 full motion color LCD display instructs drivers and supports dynamic updates of custom branded videos and advertisements.

Intelligent power management options double the number of parking spaces served by allowing two charging ports to share a single circuit. Sites with single port EV stations can upgrade to dual port stations without requiring additional electrical services.

The CT4000 is the first ENERGY STAR® certified EV charger because it charges efficiently and conserves power when not charging. As an ENERGY STAR certified EV charger, the CT4000 uses significantly less energy than a standard EV charger when in standby mode to help you save money on your utility bill.

All CT4000 models offer one or two standard SAE J1772® Level 2 charging ports with locking holsters, each port supplying up to 7.2kW. With this standard connector, ChargePoint level 2 stations can charge any EV.

Stations are available in bollard and wall mount configurations for easy installation anywhere. All stations are fully software upgradeable remotely over the air.

Stations come in both 6' and 8' tall models with 18' and 23' cords, respectively. With multiple options for size and cord reach, your station can service up to four parking spaces, reach all car models regardless of parking style or car sizes and increase the usability of your EV spots.

Driver Friendly User Interface

- Instructional video shows how to use the station
- Multi-language: English, French, Spanish
- Touch button interface; works in rain, ice and with gloves
- Backed by ChargePoint's world class 24/7 driver phone support

Easily Communicate with Your Drivers

Whether you're a retail establishment wanting to advertise your latest product, a workplace looking to communicate with employees or a municipality wanting to welcome visitors, ChargePoint's prominent LCD screen makes it easy to reach EV drivers:

- Daylight readable, with auto brightness control
- 640 X 480 resolution active matrix
- Full motion 30fps video support
- Upload up to 60 seconds of high quality video on a color LCD screen to individual stations as often as desired
- Brand your charging stations to communicate with drivers
- Instructional video in English, Spanish or French

The First ENERGY STAR® Certified EV Charger

3 *ELECTRIC VEHICLE CHARGING STATION*

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