FINAL ENGINEERING PLANS

TENANT IMPROVEMENTS

16825 CHURNOVIC LANE
CREST HILL, IL 60435

Call Before You Dig
JULIE
1-800-892-0123

UTILITY AND GOVERNING AGENCY CONTACTS

COMMUNITY DEVELOPMENT
CITY OF CREST HILL
1610 PLAINFIELD ROAD
CREST HILL, IL 60403
TEL: (815) 741-5106
CONTACT: DON SEEMAN
EMAIL: DSEEMAN@@CITYOFCRESTHILL.COM

SANITARY SEWER SERVICE
WATER & WASTEWATER DEPARTMENT
CITY OF CREST HILL
2250 NORTH BROADWAY STREET
CREST HILL, IL 60403
TEL: (815) 741-5108
CONTACT: MIKE EULITZ
EMAIL: MEULITZ@CITYOFCRESTHILL.COM

STORM SEWER SERVICE
WATER & WASTEWATER DEPARTMENT
CITY OF CREST HILL
2250 NORTH BROADWAY STREET
CREST HILL, IL 60403
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WATER SERVICE
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ROADWAY AUTHORITY
PUBLIC WORKS & STREET DEPARTMENT
CITY OF CREST HILL
2250 NORTH BROADWAY STREET
CREST HILL, IL 60403
TEL: (815) 741-5108
CONTACT: MIKE EULITZ
EMAIL: MEULITZ@CITYOFCRESTHILL.COM

POWER COMPANY
COMMONWEALTH EDISON
TEL: (800) 334-7661

NATURAL GAS COMPANY
NORTHERN ILLINOIS GAS COMPANY (NICOR)
TEL: (888) 642-6748

TELEPHONE
AT&T
TEL: (800) 288-2020

PROJECT TEAM

TENANT
AMAZON
420 TERRY AVENUE NORTH
SEATTLE, WA 98109
CONTACT: ALYSSIA LESTER
EMAIL: ALYMLEST@AMAZON.COM

CIVIL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
4201 WINFIELD RD, SUITE 600
WARRENVILLE, IL 60555
CONTACT: JARED KENYON, P.E.
TEL: (331) 481-7329
EMAIL: JARED.KENYON@KIMLEY-HORN.COM

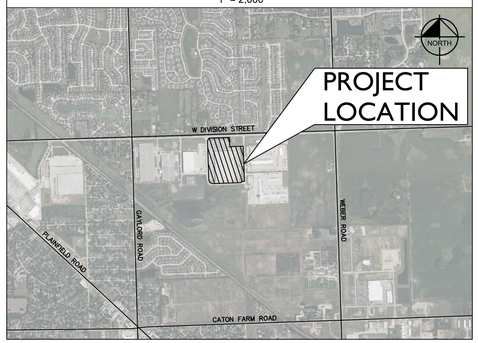
KIMLEY-HORN AND ASSOCIATES, INC.
4201 WINFIELD RD, SUITE 600
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CONTACT: MARTA GAPPY
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LANDSCAPE ARCHITECT
KIMLEY-HORN AND ASSOCIATES, INC.
4201 WINFIELD RD, SUITE 600
WARRENVILLE, IL 60555
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SURVEYOR
KIMLEY-HORN AND ASSOCIATES, INC.
4201 WINFIELD RD, SUITE 600
WARRENVILLE, IL 60555
CONTACT: BRADLEY A. STROHL
TEL: (331) 209-0476
EMAIL: BRAD.STROHL@KIMLEY-HORN.COM

LOCATION MAP

1" = 2,000'



BENCHMARKS

REFERENCE DATUM

NORTH AMERICAN VERTICAL DATUM 1988

BENCHMARK #1 ELEVATION = 639.47'

"+" CUT SET IN CONCRETE AT THE BASE OF AN AMAZON DIRECTORY SIGN, 50'± SOUTHEAST OF THE SOUTHEAST CORNER OF THE INTERSECTION OF W DIVISION STREET AND CHURNOVIC LANE, AND 24' EAST OF A STORM DRAIN MANHOLE.

BENCHMARK #2 ELEVATION = 641.76'

"+" CUT SET IN CONCRETE AT THE BASE OF A LIGHT POLE LOCATED SOUTH OF W DIVISION STREET AT THE CENTRAL PART OF SITE.

BENCHMARK #3 ELEVATION = 639.64'

BENCHMARK NORTH 15.07 FEET NORTH AND EAST 35.78 FEET OF WATER TOWER OVERFLOW ON THE EAST SIDE OF THE SITE.

BENCHMARK #4 ELEVATION = 635.83'

"+" CUT SET IN CONCRETE AT THE BASE OF A LIGHT POLE ON THE SOUTHEAST SIDE OF THE AMAZON PARKING LOT, 60'± NORTH OF THE NORTH EDGE OF LIDICE PKWY.

BENCHMARK #5 ELEVATION = 635.57'

"+" CUT SET IN CONCRETE SIDEWALK, NORTH 64.33' AND EAST 35.22' OF STORM MANHOLE.

BENCHMARK #6 ELEVATION = 638.51'

"+" CUT SET IN CONCRETE AT THE BASE OF A LIGHT POLE ON THE SOUTHWEST SIDE OF THE AMAZON PARKING LOT, 10'± WEST OF A FIRE HYDRANT, AND 25'± NORTH OF THE NORTH EDGE OF LIDICE PKWY.

LEGAL DESCRIPTION

LOTS 15 AND 16 IN CREST HILL INDUSTRIAL PARK PUD PHASE VI RESUBDIVISON NO. 1, BEING A SUBDIVISION OF PART OF THE NORTHWEST QUARTER AND THE NORTHEAST QUARTER OF SECTION 30, TOWNSHIP 36 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED AS DOCUMENT NUMBER R2016-074215, ALL IN LOCKPORT TOWNSHIP, WILL COUNTY, ILLINOIS.

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PROFESSIONAL ENGINEER'S CERTIFICATION

I, JARED KENYON, A LICENSED PROFESSIONAL ENGINEER OF IL, HEREBY CERTIFY THAT THIS SUBMISSION, PERTAINING ONLY TO THE "C" SERIES CIVIL SHEETS LISTED ABOVE BUT EXCLUDING DETAILS PREPARED BY OTHERS, WAS PREPARED ON BEHALF OF AMAZON BY KIMLEY-HORN AND ASSOCIATES, INC. UNDER MY PERSONAL DIRECTION. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATED THIS 18TH DAY OF JULY , A.D., 2025.

_____
IL LICENSED PROFESSIONAL ENGINEER 062-059479
MY LICENSE EXPIRES ON NOVEMBER 30, 2025
DESIGN FIRM REGISTRATION NUMBER: 184002012-0006

LICENSED PROFESSIONAL ENGINEER
JARED J KENYON
062-059479
STATE OF ILLINOIS

Date of Expiration: 11-30-25

No.	REVISIONS	DATE	BY

Kimley»Horn

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4201 WINFIELD ROAD, SUITE 600, WARRENVILLE, IL 60555
PHONE: 630-487-5550
WWW.KIMLEY-HORN.COM

KHA PROJECT 168864455
DATE 7/18/2025
SCALE AS SHOWN
DESIGNED BY: MAG
DRAWN BY: MAG
CHECKED BY: JF

COVER SHEET

MDW5
16825 CHURNOVIC LANE
CREST HILL, IL 60435
WILL COUNTY IL

SHEET NUMBER
C0.0

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

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GENERAL NOTES

1. EXISTING SITE TOPOGRAPHY, UTILITIES, RIGHT-OF-WAY AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE OBTAINED FROM A SURVEY PREPARED BY:

   KIMLEY-HORN AND ASSOCIATES, INC.
   4201 WINFIELD RD, SUITE 600
   WARRENVILLE, IL 60555
   TEL: (331) 207-4823
   EMAIL: MATT.JONES@KIMLEY-HORN.COM
   CONTACT: MATT JONES

   COPIES OF THE SURVEY ARE AVAILABLE FROM THE ENGINEER. SITE CONDITIONS MAY HAVE CHANGED SINCE THE SURVEY WAS PREPARED. CONTRACTORS TO VISIT SITE TO FAMILIARIZE THEMSELVES WITH THE CURRENT CONDITIONS.

2. COPIES OF SOILS INVESTIGATION REPORTS MAY BE OBTAINED FROM THE OWNER. ANY BRACING, SHEETING OR SPECIAL CONSTRUCTION METHODS DEEMED NECESSARY BY THE CONTRACTOR IN ORDER TO INSTALL THE PROPOSED IMPROVEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT. ANY ADDITIONAL SOILS DATA NEEDED TO CONFIRM THE CONTRACTOR'S OPINIONS OF THE SUBSOIL CONDITIONS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL OBTAIN THE OWNER'S WRITTEN AUTHORIZATION TO ACCESS THE SITE TO CONDUCT A SUPPLEMENTAL SOILS INVESTIGATION.

3. THE CONTRACTOR SHALL PHOTOGRAPH THE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS.

4. EXCEPT WHERE MODIFIED BY THE CONTRACT DOCUMENTS, ALL PROPOSED WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS WHICH ARE HEREBY MADE A PART HEREOF:

   A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS," AS PREPARED BY IDOT, LATEST EDITION.

   B. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" AS PUBLISHED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA), LATEST EDITION.

   C. "ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS," AS PUBLISHED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA), LATEST EDITION.

   D. REGULATIONS, STANDARDS AND GENERAL REQUIREMENTS SET FORTH BY THE MUNICIPALITY, UNLESS OTHERWISE NOTED ON THE PLANS.

   E. THE NATIONAL ELECTRIC CODE.

   F. ALL APPLICABLE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT ARE HEREIN INCORPORATED BY REFERENCE.

5. STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND RECURRING SPECIAL PROVISIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THE CONTRACTOR'S WORK MAY NOT BE SPECIFICALLY NOTED, BUT ARE CONSIDERED A PART OF THE CONTRACTOR'S CONTRACT.

6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL ITEMS REQUIRED FOR CONSTRUCTION OF THE PROJECT, AS SHOWN ON THE PLANS, ARE INCLUDED IN THE CONTRACT. ANY ITEM NOT SPECIFICALLY INCLUDED IN THE CONTRACT, BUT SHOWN ON THE PLANS, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF A DISCREPANCY BETWEEN THE PLANS AND THE QUANTITIES.

7. THE CONTRACTOR IS RESPONSIBLE FOR HAVING A SET OF "APPROVED" ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT THEM TO THE SURVEYOR OR ENGINEER BEFORE DOING ANY WORK. OTHERWISE, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS, AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT THE CONTRACTOR'S OWN RISK AND EXPENSE IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

8. THE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS PRIOR TO STARTING WORK. THE CONTRACTOR BY USING THESE PLANS FOR THEIR WORK, AGREE TO HOLD HARMLESS KIMLEY-HORN AND ASSOCIATES, INC, THE MUNICIPALITY, THEIR EMPLOYEES AND AGENTS AND THE OWNER FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, DAMAGES, AND THE COST OF DEFENSE ARISING OUT OF CONTRACTOR(S) PERFORMANCE OF THE WORK DESCRIBED HEREIN.

9. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

10. CONSTRUCTION MATERIALS AND/OR EQUIPMENT MAY NOT BE STORED IN THE RIGHT-OF-WAY, AS DIRECTED BY THE OWNER.

11. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHT-OF-WAYS ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.

12. OWNER SHALL OBTAIN EASEMENTS AND APPROVAL OF PERMITS NECESSARY TO FACILITATE CONSTRUCTION OF THE PROPOSED UTILITIES. THE CONTRACTOR, HOWEVER, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS AND EASEMENTS.

13. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE SURVEYOR AT THE CONTRACTOR'S EXPENSE.

14. NOTIFICATION OF COMMENCING CONSTRUCTION:

   14.A. THE CONTRACTOR SHALL NOTIFY AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY, AS NECESSARY, ALL TESTING AGENCIES, THE MUNICIPALITY, AND THE OWNER 48-HOURS IN ADVANCE OF CONSTRUCTION.

   14.B. FAILURE OF THE CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN THE TESTING COMPANIES TO BE UNABLE TO VISIT THE SITE AND PERFORM TESTING WILL CAUSE THE CONTRACTOR TO SUSPEND THE OPERATION TO BE TESTED UNTIL THE TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COST OF SUSPENSION OF WORK SHALL BE BORNE BY THE CONTRACTOR.

15. ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL EMERGENCY TRAFFIC, AS DIRECTED BY THE MUNICIPALITY.

16. ANY EXISTING SIGNS, LIGHT STANDARDS, AND UTILITY POLES THAT INTERFERE WITH CONSTRUCTION OPERATIONS AND ARE NOT NOTED ON THE PLANS FOR DISPOSAL SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE, AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE TO THE SATISFACTION OF THE OWNER. ANY SIGNS NOT REQUIRED TO BE RESET SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.

17. ALL TREES TO BE SAVED SHALL BE IDENTIFIED PRIOR TO CONSTRUCTION BY THE LANDSCAPE ARCHITECT AND SHALL BE PROTECTED PER IDOT SECTION 201.05. THE RIGHT-OF-WAY LINE AND LIMITS OF THE CONTRACTOR'S OPERATIONS SHALL BE CLEARLY DEFINED THROUGHOUT THE CONSTRUCTION PERIOD. ALL TREES NOTED TO REMAIN SHALL BE PROTECTED FROM DAMAGE TO TRUNKS, BRANCHES AND ROOTS. NO EXCAVATING, FILLING OR GRADING IS TO BE DONE INSIDE THE DRIP LINE OF TREES UNLESS OTHERWISE INDICATED.

18. LIMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF AN APPROVED LANDSCAPE ARCHITECT, FORESTER, OR ARBORIST AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THE CONTRACTOR'S WORK SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. ALL CUTS OVER ONE (1) INCH IN DIAMETER SHALL BE PAINTED WITH AN APPROVED TREE PAINT.

19. ALL EXISTING PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAWCUT ALONG LIMITS OF PROPOSED REMOVAL BEFORE COMMENCEMENT OF PAVEMENT REMOVAL.

20. ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT, AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION. THE CONTRACTOR'S WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS A PAY ITEM IS LISTED ON THE BID LIST.

21. REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER, CULVERTS, ETC., SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR ANY PERMITS REQUIRED FOR SUCH DISPOSAL.

22. THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS, AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEANUP, AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.

23. NO UNDERGROUND WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE MUNICIPALITY. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE MUNICIPALITY PRIOR TO INSTALLING PAVEMENT BASE, BINDER, AND SURFACE, AND PRIOR TO POURING ANY CONCRETE AFTER FORMS HAVE BEEN SET, AS NECESSARY.

24. WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND PIPE SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE STRUCTURE. THE CONTRACTOR'S WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE MERGED INTO THE CONTRACT UNIT PRICE EACH FOR STRUCTURES AND CONTRACT UNIT PRICE PER LINEAL FOOT FOR STORM SEWERS, WHICH SHALL BE PAYMENT IN FULL FOR CLEANING, PATCHING, REMOVAL, AND DISPOSAL OF DEBRIS AND DIRT. DRAINAGE STRUCTURES AND STORM SEWERS CONSTRUCTED AS PART OF THE CONTRACTOR'S PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. NO EXTRA PAYMENT WILL BE MADE FOR CLEANING STRUCTURES OR STORM SEWERS CONSTRUCTED AS PART OF THE CONTRACTOR'S PROJECT.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLANS. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) AND THE MUNICIPALITY FOR UTILITY LOCATIONS.

26. THE GENERAL CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO PROVIDE CABLE TV, PHONE, ELECTRIC, GAS AND IRRIGATION SERVICES. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING SITE LAYOUTS FOR THESE UTILITIES AND SHALL COORDINATE CROSSINGS AND PROVIDE CONDUITS AS REQUIRED. THIS COORDINATION SHALL BE CONSIDERED INCIDENTAL TO GENERAL CONTRACTOR AGREEMENT WITH THE OWNER. ANY CONFLICTS IN UTILITIES SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

27. CONTRACTOR IS TO VERIFY ALL EXISTING STRUCTURES AND FACILITIES AT ALL PROPOSED UTILITY CONNECTION LOCATIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL AND STARTING WORK.

28. ANY FIELD TILES ENCOUNTERED SHALL BE INSPECTED BY THE ENGINEER. THE DRAIN TILE SHALL BE CONNECTED TO THE STORM SEWER SYSTEM AND A RECORD KEPT BY THE CONTRACTOR OF THE LOCATIONS AND TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THE CONTRACTOR'S WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

29. ALL FRAMES AND LIDS FOR STORM AND SANITARY SEWERS, VALVE VAULT COVERS, FIRE HYDRANTS, AND B-BOXES ARE TO BE ADJUSTED TO MEET FINISHED GRADE. THE CONTRACTOR'S ADJUSTMENT IS TO BE MADE BY THE SEWER AND WATER CONTRACTOR, AND THE COST IS TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY THE MUNICIPALITY UPON FINAL INSPECTION OF THE PROJECT.

30. HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ONTO THE ROAD SUBGRADES. WHENEVER POSSIBLE, HOSES SHALL BE USED TO DIRECT THE WATER INTO LOT AREAS OR THE STORM SEWER SYSTEM, IF AVAILABLE. DAMAGE TO THE ROAD SUBGRADE OR LOT GRADING DUE TO EXCESSIVE WATER SATURATION AND/OR EROSION FROM HYDRANT FLUSHING, OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM, WILL BE REPAIRED BY THE CONTRACTOR FLUSHING OR USING THE HYDRANT AT THE CONTRACTOR'S OWN EXPENSE. ALL WATER DISTRIBUTION SYSTEM LEAKS ARE THE RESPONSIBILITY OF THE WATER MAIN CONTRACTOR AND SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

31. TRENCH BACKFILL WILL BE REQUIRED TO THE FULL DEPTH ABOVE SEWERS AND WATERMAIN WITHIN TWO (2) FEET HORIZONTAL OF PROPOSED OR EXISTING PAVEMENT.

32. IF SOFT, SPONGY, OR OTHER UNSUITABLE SOILS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN 0.5 TSF ARE ENCOUNTERED AT THE BOTTOM OF THE TRENCH, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH WELL-COMPACTED, CRUSHED LIMESTONE BEDDING MATERIAL. IF ROCK IS ENCOUNTERED, IT SHALL BE REMOVED TO AT LEAST SIX (6) INCHES BELOW THE BOTTOM OF THE PIPE TO ALLOW PROPER THICKNESS OF BEDDING. ANY UNDERCUT OF TWO (2) FEET OR MORE SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. DEPTHS GREATER THAN TWO (2) FEET SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PROCEEDING.

33. THE TRENCHES FOR PIPE INSTALLATION SHALL BE KEPT DRY AT ALL TIMES DURING PIPE PLACEMENT. APPROPRIATE FACILITIES TO MAINTAIN THE DRY TRENCH SHALL BE PROVIDED BY THE CONTRACTOR, AND THE COST OF SUCH SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE ITEM. PLANS FOR THE SITE DEWATERING, IF EMPLOYED, SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION UNLESS APPROVED IN WRITING BY THE OWNER.

34. AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED, THE CONTRACTOR SHALL PLACE PROPER INLET PROTECTION EROSION CONTROL AT LOCATIONS INDICATED BY THE ENGINEER. THE PURPOSE OF THE INLET PROTECTION WILL BE TO MINIMIZE THE AMOUNT OF SILTATION THAT NORMALLY WOULD ENTER THE STORM SEWER SYSTEM FROM ADJACENT AND/OR UPSTREAM DRAINAGE AREAS.

35. AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM ALL DEBRIS AND SILTATION.

36. EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH IEPA REGULATIONS AND IDOT STANDARDS FOR SOIL EROSION AND SEDIMENTATION CONTROL AND SHALL BE MAINTAINED BY THE CONTRACTOR AND REMAIN IN PLACE UNTIL A SUITABLE GROWTH OF GRASS, ACCEPTABLE TO THE MUNICIPALITY.

37. THE CONTRACTOR SHALL CONFORM TO ALL EROSION CONTROL REQUIREMENTS AS SET FORTH BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY THROUGH THE NPDES PHASE II PERMIT PROGRAM REQUIREMENTS AND GOVERNING MUNICIPALITY. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES AS INDICATED ON THE EROSION CONTROL DRAWINGS AND SPECIFICATIONS AS WELL AS THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY KIMLEY-HORN AND ASSOCIATES, INC. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE PROVISIONS INDICATED IN THE SWPPP AT A MINIMUM, INCLUDING EROSION CONTROL MEASURES AND INSPECTION FREQUENCY, AS REQUIRED BY THE IEPA NPDES PHASE II PERMIT PROGRAM REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING DOCUMENTATION CURRENT AND READILY AVAILABLE ON THE PROJECT SITE AT ALL TIMES FOR REVIEW BY THE OWNER, ENGINEER, AND REGULATORY AGENCIES. KIMLEY-HORN AND ASSOCIATES, INC IS NOT RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR SUPPLIERS, WHICH CONTRIBUTE TO DEFICIENCIES IN THE SWPPP OR ANY VIOLATIONS RESULTING FROM INADEQUATE EROSION CONTROL PROTECTION AND/OR DOCUMENTATION.

38. THE PAVEMENT SHALL BE KEPT FREE OF MUD AND DEBRIS AT ALL TIMES. IT MAY BE NECESSARY TO KEEP A SWEEPER ON-SITE AT ALL TIMES.

39. ALL DISTURBED AREAS OF THE RIGHT-OF-WAY SHALL BE FULLY RESTORED TO PRE-CONSTRUCTION CONDITIONS WITH A MINIMUM OF SIX (6) INCHES OF TOPSOIL, SEEDING, AND MULCH AS PER IDOT STANDARDS.

40. ALL PROPOSED GRADES SHOWN ON PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS NOTED OTHERWISE.

41. ALL TESTING SHALL BE THE RESPONSIBILITY AND EXPENSE OF THE CONTRACTOR, IF REQUESTED BY THE MUNICIPALITY OR ENGINEER, COPIES OF ALL TEST RESULTS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL.

42. PROVIDE SMOOTH VERTICAL CURVES THROUGH HIGH AND LOW POINTS INDICATED BY SPOT ELEVATIONS. PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES. AVOID RIDGES AND DEPRESSIONS.

43. WHEN REQUIRED, THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN RECORD DRAWINGS CAN BE PREPARED. RECORD DRAWINGS SHALL INDICATE THE FINAL LOCATION AND LAYOUT OF ALL IMPROVEMENTS, INCLUDING VERIFICATION OF ALL CONCRETE PADS, INVERT, RIM, AND SPOT GRADE ELEVATIONS, AND INCORPORATE ALL FIELD DESIGN CHANGES APPROVED BY THE OWNER.

44. BEFORE ACCEPTANCE, ALL WORK SHALL BE INSPECTED BY THE MUNICIPALITY, AS NECESSARY.

EARTHWORK NOTES

1. GENERAL

   1.1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE.

   1.2. ANY QUANTITIES IN THE BID PROPOSAL ARE INTENDED AS A GUIDE FOR THE CONTRACTOR'S USE IN DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND BE KNOWLEDGEABLE OF ALL SITE CONDITIONS.

   1.3. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC., MUST BE ACCOUNTED FOR.

   1.4. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION AND PREVENT STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. THE FAILURE TO PROVIDE PROPER DRAINAGE WILL NEGATE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.

   1.5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE INITIAL ESTABLISHMENT OF EROSION CONTROL PROCEDURES AND THE PLACEMENT OF SILT AND FILTER FENCING, ETC., TO PROTECT ADJACENT PROPERTY, WETLANDS, ETC., SHALL OCCUR BEFORE GRADING BEGINS.

   1.6. PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL ERECT A CONSTRUCTION FENCE AROUND ANY TREE DESIGNATED TO BE PRESERVED. SAID FENCE SHALL BE PLACED IN A CIRCLE CENTERED AROUND THE TREE, THE DIAMETER OF WHICH SHALL BE SUCH THAT THE ENTIRE DRIP ZONE (EXTENT OF FURTHEST EXTENDING BRANCHES) SHALL BE WITHIN THE FENCE LIMITS. THE EXISTING GRADE WITHIN THE FENCED AREA SHALL NOT BE DISTURBED.

2. TOPSOIL EXCAVATION INCLUDES:

   2.1. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THOSE AREAS THAT WILL REQUIRE EARTH EXCAVATION OR COMPACTED EARTH FILL MATERIAL. EXISTING VEGETATION SHALL BE REMOVED PRIOR TO STRIPPING TOPSOIL OR FILLING AREAS.

   2.2. PLACEMENT OF EXCAVATED MATERIAL IN OWNER-DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED AND IN THOSE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL. PROVIDE NECESSARY EROSION CONTROL MEASURES FOR STOCKPILE.

   2.3. TOPSOIL STOCKPILED FOR RESPREAD SHALL BE FREE OF CLAY AND SHALL NOT CONTAIN ANY OF THE TRANSITIONAL MATERIAL BETWEEN THE TOPSOIL AND CLAY. THE TRANSITIONAL MATERIAL SHALL BE USED IN NON-STRUCTURAL FILL AREAS OR DISPOSED OF OFF-SITE.

   2.4. TOPSOIL RESPREAD SHALL INCLUDE HAULING AND SPREADING SIX (6) INCHES OF TOPSOIL DIRECTLY OVER AREAS TO BE LANDSCAPED WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE OWNER.

   2.5. MODERATE COMPACTION IS REQUIRED IN NON-STRUCTURAL FILL AREAS.

3. EARTH EXCAVATION INCLUDES:

   3.1. EXCAVATION OF SUBSURFACE MATERIALS WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL. THE EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.1 FEET OF THE PLAN SUBGRADE ELEVATIONS WHILE MAINTAINING PROPER DRAINAGE. THE TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIALS SHALL "BALANCE" DURING THE FINE GRADING OPERATION.

   3.2. PLACEMENT OF SUITABLE MATERIALS SHALL BE WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL IN ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS TO WITHIN A TOLERANCE OF 0.1 FEET. THE FILL MATERIALS SHALL BE PLACED IN LOOSE LIFTS THAT SHALL NOT EXCEED EIGHT (8) INCHES IN THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE REQUIRED COMPACTION.

   3.3. STRUCTURAL FILL MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF THE SITE NOT REQUIRING STRUCTURAL FILL, WITHIN SIX (6) INCHES OF THE PLAN FINISHED GRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL HOWEVER, THIS MATERIAL SHALL NOT BE PLACED UNTIL TESTING OR OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY DIRECTED BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.

   3.4. COMPACTION OF SUITABLE MATERIALS SHALL BE TO AT LEAST 93% OF THE MODIFIED PROCTOR DRY DENSITY WITHIN PROPOSED PAVEMENT AREAS, SIDEWALK, ETC. COMPACTION SHALL BE AT LEAST 95% OF THE MODIFIED PROCTOR WITHIN PROPOSED BUILDING PAD AREAS.

4. UNSUITABLE MATERIAL: UNSUITABLE MATERIALS SHALL BE CONSIDERED MATERIAL THAT IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION, AND IS ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS AND THE PROPOSED SUBGRADE ELEVATION. THE DECISION TO REMOVE SAID MATERIAL AND TO WHAT EXTENT SHALL BE MADE BY THE ENGINEER WITH THE CONCURRENCE OF THE OWNER.

5. MISCELLANEOUS. THE CONTRACTOR SHALL:

   5.1. SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED ALL EXCESS TRENCH SPOIL AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS.

   5.2. SCARIFY, DISC, AERATE, AND COMPACT, TO THE DEGREE SPECIFIED, THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.

   5.3. ADD WATER TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.

   5.4. BACKFILL THE CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE MATERIAL.

6. TESTING AND FINAL ACCEPTANCE

   6.1. THE CONTRACTOR SHALL PROVIDE AS A MINIMUM A FULLY LOADED SIX-WHEEL TANDEM AXLE TRUCK FOR PROOF ROLLING THE PAVEMENT SUBGRADE PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER AND THE BASE MATERIAL. THIS SHALL BE WITNESSED BY THE TESTING ENGINEER AND THE OWNER. (SEE PAVING SPECIFICATION.)

   6.2. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL OR OTHERWISE CORRECTED AND APPROVED BY THE ENGINEER.

PAVING NOTES

1. GENERAL

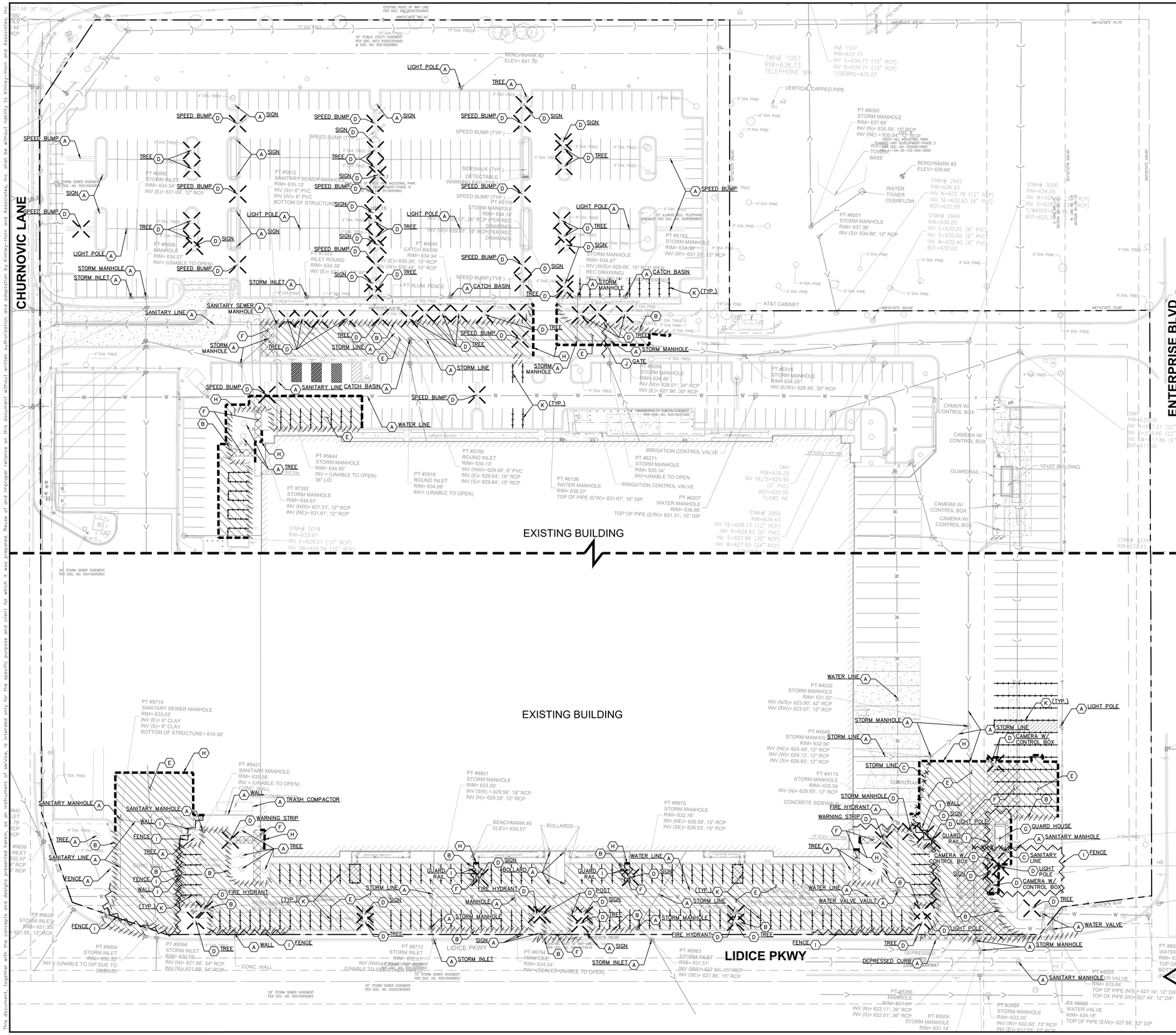
   1.1. PAVING WORK INCLUDES FINAL SUBGRADE SHAPING, PREPARATION, AND COMPACTION; PLACEMENT OF SUBBASE OR BASE COURSE MATERIALS; BITUMINOUS BINDER AND/OR SURFACE COURSES; FORMING, FINISHING, AND CURING CONCRETE PAVEMENT, CURBS, AND WALKS; AND FINAL CLEAN-UP AND ALL RELATED WORK.

   1.2. COMPACTION REQUIREMENTS [REFERENCE ASTM D-1557 (MODIFIED PROCTOR)] FOR SUBGRADE, SUBBASE, AGGREGATE BASE COURSE, AND BITUMINOUS COURSES SHALL MEET ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) HIGHWAY STANDARDS.

   1.3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING WARNING DEVICES, AND THE SAFE MANAGEMENT OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND LOCATION SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, AND IN ACCORDANCE WITH THE MUNICIPALITY CODE.

2. SUBGRADE PREPARATION

   2.1. EARTHWORK FOR PROPOSED PAVEMENT SUBGRADE SHALL BE FINISHED TO WITHIN 0.1 FOOT, PLUS OR MINUS, OF PLAN ELEVATION. THE CONTRACTOR SHALL CONFIRM THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED AND THAT THE FINISHED TOP SUBGRADE ELEVATION HAS BEEN GRADED WITHIN TOLERANCES ALLOWED IN THESE SPECIFICATIONS, UNLESS THE CONTRACTOR ADVISES THE ENGINEER IN WRITING PRIOR TO FINE GRADING FOR BASE COURSE CONSTRUCTION. IT IS UNDERSTOOD THAT TH



DEMOLITION NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED.
2. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
3. THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT. CONTRACTOR SHALL NOT DEMOLISH ANYTHING OUTSIDE THE OWNERS LEASE/PROPERTY LINE UNLESS SPECIFICALLY MENTIONED ON THIS SHEET.
4. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
5. IF DEMOLITION OR CONSTRUCTION ON SITE WILL INTERFERE WITH THE ADJACENT PROPERTY OWNER'S TRAFFIC FLOW, THE CONTRACTOR SHALL COORDINATE WITH ADJACENT PROPERTY OWNER, TO MINIMIZE THE IMPACT ON TRAFFIC FLOW. TEMPORARY RE-ROUTING OF TRAFFIC IS TO BE ACCOMPLISHED BY USING IDOT APPROVED TRAFFIC BARRICADES, BARRELS, AND/OR CONES. TEMPORARY SIGNAGE AND FLAGMEN MAY BE ALSO NECESSARY.
6. QUANTITIES DEPICTED ON THIS SHEET SHALL SERVE AS A GUIDE ONLY. CONTRACTOR TO VERIFY ALL DEMOLITION QUANTITIES.
7. REFER TO GEOTECHNICAL REPORT PROVIDED BY OTHERS FOR ALL SUBSURFACE INFORMATION.
8. CONTRACTOR SHALL BEGIN CONSTRUCTION OF ANY LIGHT POLE BASES FOR RELOCATED LIGHT FIXTURES AND RELOCATION OF ELECTRICAL SYSTEM AS SOON AS DEMOLITION BEGINS. CONTRACTOR SHALL BE AWARE THAT INTERRUPTION OF POWER TO ANY LIGHT POLES OR SIGNS SHALL NOT EXCEED 24 HOURS.
9. EROSION CONTROL MUST BE ESTABLISHED PRIOR TO ANY WORK ON SITE INCLUDING DEMOLITION.
10. THE EXTENT OF SITE DEMOLITION WORK IS AS SHOWN ON THE CONTRACT DOCUMENTS AND AS SPECIFIED HEREIN.
11. CONTRACTOR MUST RECEIVE APPROVAL FROM CIVIL ENGINEER AND GEOTECHNICAL ENGINEER FOR THE MATERIAL TYPE AND USE IF CONTRACTOR DESIRES TO REUSE DEMOLISHED SITE PAVEMENT AS STRUCTURAL FILL.
12. EXISTING UTILITIES, WHICH DO NOT SERVICE STRUCTURES BEING DEMOLISHED, ARE TO BE KEPT IN SERVICE AND PROTECTED AGAINST DAMAGE DURING DEMOLITION OPERATIONS. CONTRACTOR SHALL ARRANGE FOR SHUT-OFF OF UTILITIES SERVING STRUCTURES TO BE DEMOLISHED. CONTRACTOR IS RESPONSIBLE FOR TURNING OFF, DISCONNECTING, AND SEALING INDICATED UTILITIES BEFORE STARTING DEMOLITION OPERATIONS. EXISTING UTILITIES TO BE ABANDONED ARE TO BE CAPPED AT BOTH ENDS AND FILLED WITH FA-1 OR APPROVED EQUAL. ALL UNDERGROUND UTILITIES TO BE REMOVED ARE TO BE BACKFILLED WITH ENGINEERED FILL OR SELECT EXCAVATED MATERIAL, AS APPROVED BY THE GEOTECHNICAL ENGINEER, TO 95% OF MODIFIED PROCTOR DENSITY WITHIN PAVED AREAS AND TO 90% OF MODIFIED PROCTOR DENSITY FOR GREEN SPACE AREAS, IN ACCORDANCE WITH THE EARTHWORK SPECIFICATIONS. ALL PRIVATE UTILITIES (ELECTRIC, CABLE, TELEPHONE, FIBER OPTIC, GAS) SHALL BE REMOVED AND RELOCATED PER THE UTILITY OWNER AND THE LOCAL MUNICIPALITY'S REQUIREMENTS.
13. UNDERGROUND UTILITIES SHOWN ARE BASED ON ATLASES AND AVAILABLE INFORMATION PRESENTED AT THE TIME OF SURVEY. CONTRACTOR SHOULD CALL 'JULIE' (1-800-892-0123) TO COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE ORDERING MATERIALS OR COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY. CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UNDERGROUND AND OVERHEAD UTILITIES DURING CONSTRUCTION. UTILITY PROTECTION SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNER AND AS DIRECTED BY THE GOVERNING MUNICIPALITY. DAMAGED CABLES/CONDUITS SHALL BE REPLACED IMMEDIATELY. ALL EXISTING STRUCTURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PROCESS. ALL DAMAGED STRUCTURES SHALL BE REPLACED IN-KIND AND THEIR REPLACEMENT COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. PROPER NOTIFICATION TO THE OWNERS OF THE EXISTING UTILITIES SHALL BE MADE AT LEAST 48 HOURS BEFORE CONSTRUCTION COMMENCES.
14. USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING IN THE AIR TO THE LOWEST LEVEL. COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. SEE EROSION CONTROL SHEETS FOR FURTHER EROSION CONTROL REQUIREMENTS.
15. COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF STRUCTURES TO THE FINAL LINES AND GRADES SHOWN ON THE CONTRACT DOCUMENTS. BACKFILL MATERIAL SHALL BE IDOT APPROVED CRUSHED LIMESTONE (CA-6) OR APPROVED EQUAL. USE SATISFACTORY SOIL MATERIALS CONSISTING OF STONE, GRAVEL AND SAND, FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. PRIOR TO PLACEMENT OF FILL MATERIALS ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH AND DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 9" IN LOOSE DEPTH. COMPACT EACH LAYER AT OPTIMUM MOISTURE CONTENT OF FILL MATERIAL TO 95% OF MODIFIED PROCTOR DENSITY UNLESS SUBSEQUENT EXCAVATION FOR NEW WORK IS REQUIRED.

DEMOLITION LEGEND

A	ITEM TO REMAIN, PROTECT DURING CONSTRUCTION
B	CURB REMOVAL
C	FULL-DEPTH ASPHALT PAVEMENT REMOVAL
D	ITEM TO BE REMOVED
E	FULL-DEPTH ASPHALT PAVEMENT REMOVAL
F	CONCRETE REMOVAL
G	BUILDING REMOVAL
H	SAWCUT LINE
I	FENCE/WALL REMOVAL
J	STRIPING REMOVAL

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

Call Before You Dig JULIE 1-800-892-0123

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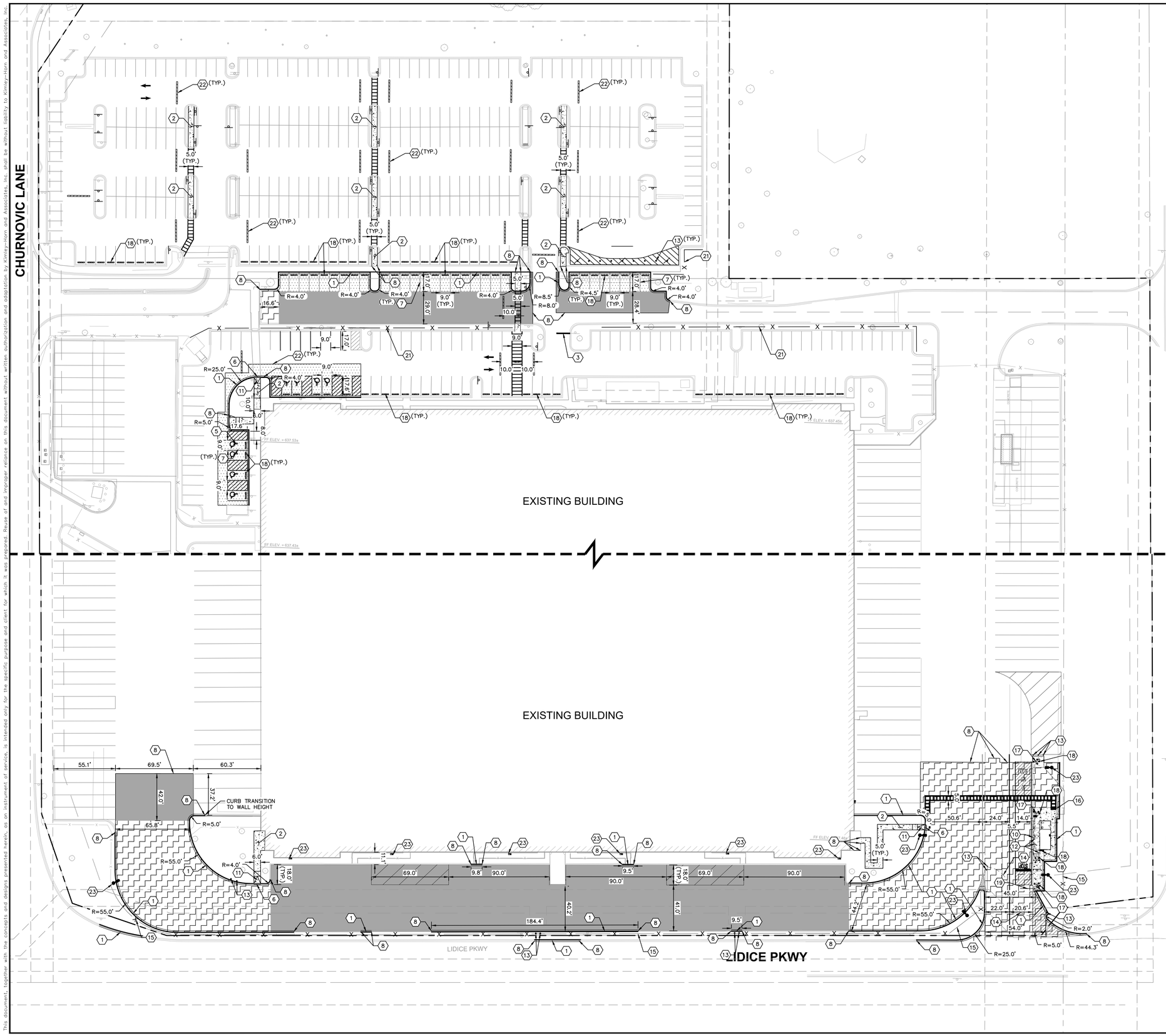
KHA PROJECT 168864455
DATE 7/16/2025
SCALE AS SHOWN
DESIGNED BY: MAG
DRAWN BY: MAG
CHECKED BY: JF

DEMOLITION PLAN

MDW5
16825 CHURNOVIC LANE
CREST HILL, IL 60435
WILL COUNTY IL

SHEET NUMBER C1.0

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PAVING AND CURB LEGEND

- STANDARD DUTY ASPHALT PAVEMENT — SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- HEAVY DUTY ASPHALT PAVEMENT — SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- CONCRETE SIDEWALK — SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- HEAVY DUTY CONCRETE PAVEMENT — SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION
- STANDARD PITCH CONCRETE CURB AND GUTTER
- CONCRETE DEPRESSED CURB AND GUTTER

GENERAL NOTES

1. ALL DIMENSIONS REFER TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
2. BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
3. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.
4. RADII ADJACENT TO PARKING STALL AND NOT DIMENSIONED ON THIS PLAN SHALL BE 3-FEET, TYPICAL.
5. REFER TO ARCHITECTURAL PLANS FOR MONUMENT SIGN DETAILS. SEE MEP PLANS FOR SITE ELECTRICAL DRAWINGS.
6. ALL PROPOSED ON-SITE STRIPING SHALL BE PAINTED UNLESS OTHERWISE NOTED.

KEY NOTES

1. B6.12 CONCRETE CURB AND GUTTER, TYP. (SEE DETAILS)
2. CONCRETE SIDEWALK, TYP. (SEE DETAILS)
3. 24" WIDE STOP BAR, TYP. (SEE DETAILS)
4. STOP SIGN, TYP. (MUTCD R1-1)
5. ACCESSIBLE PAVEMENT MARKINGS, TYP.
6. DEPRESSED CURB AND GUTTER
7. 4" WIDE PAINTED SOLID LINE, TYP.
8. CONNECT TO EXISTING PAVEMENT, SIDEWALK, CURB, TYP.
9. LIGHT POLES SHOWN FOR COORDINATION ONLY (SEE SITE LIGHTING PLANS)
10. HANDRAIL
11. ACCESSIBLE RAMP (SEE DETAILS)
12. UNDERGROUND PVC CONDUIT RACEWAYS (SEE ELECTRICAL PLANS FOR DETAILS)
13. BOLLARD, TYP. (SEE DETAILS)
14. SWING GATE (SEE DETAILS)
15. 8' SECURITY CHAIN LINK FENCE (SEE DETAILS)
16. 2' WIDE TACTILE WARNING STRIP
17. ALPR (SEE ELECTRICAL PLANS FOR DETAILS)
18. NEMA 3R RATED ENCLOSURE (SEE ELECTRICAL PLANS FOR DETAILS)
19. AUTOMATED GATE
20. CONCRETE WHEEL STOP (SEE DETAILS)
21. 4' PEDESTRIAN FENCE (SEE DETAILS)
22. SPEED BUMP (SEE DETAILS)
23. LIGHT (SEE PHOTOMETRIC PLAN)

ASSOCIATE PARKING LOT	REQUIRED (AHJ)	CURRENT	PROPOSED	DELTA +/-
ASSOCIATE STALLS (9'X17')	438	527	438	-89
ACCESSIBLE (ADA) STALLS	9	12	9	-3

*ACCESSIBLE STALL COUNTS INCLUDED IN OVERALL PARKING COUNT. CITY CODE DOES NOT DIFFERENTIATE.
**PER CITY OF CREST HILL ZONING ORDINANCE – WAREHOUSE = ONE STALL PER EMPLOYEE PLUS ONE STALL FOR EVERY VEHICLE USED IN THE CONDUCT OF ENTERPRISE = 350 STALLS + OFFICE = 5 STALLS FOR FIRST 1,000 SF AND 1 SPACE FOR EVERY 300 SF THERE AFTER = 88 STALLS

TRUCK YARD	CURRENT	PROPOSED	DELTA +/-
TRAILER PARKING STALLS	118	114	-4
DOCK DOORS	97	97	0

SHIFT	START	END	AVG HC	PEAK HC	OFFICE HC
MORNING	2:30	5:30-7:30	195	270	30
DAY	8:30	11:30-13:30	220	320	30
TWILIGHT	14:30	17:30-19:30	220	320	30
NIGHT	20:30	23:30-01:30	220	320	30

*ALL PARKING/SHIFT/HEADCOUNT INFORMATION WAS PROVIDED TO KIMLEY-HORN BY AMAZON. KIMLEY-HORN DOES NOT TAKE RESPONSIBILITY FOR ACCURACY OF INFORMATION PROVIDED.

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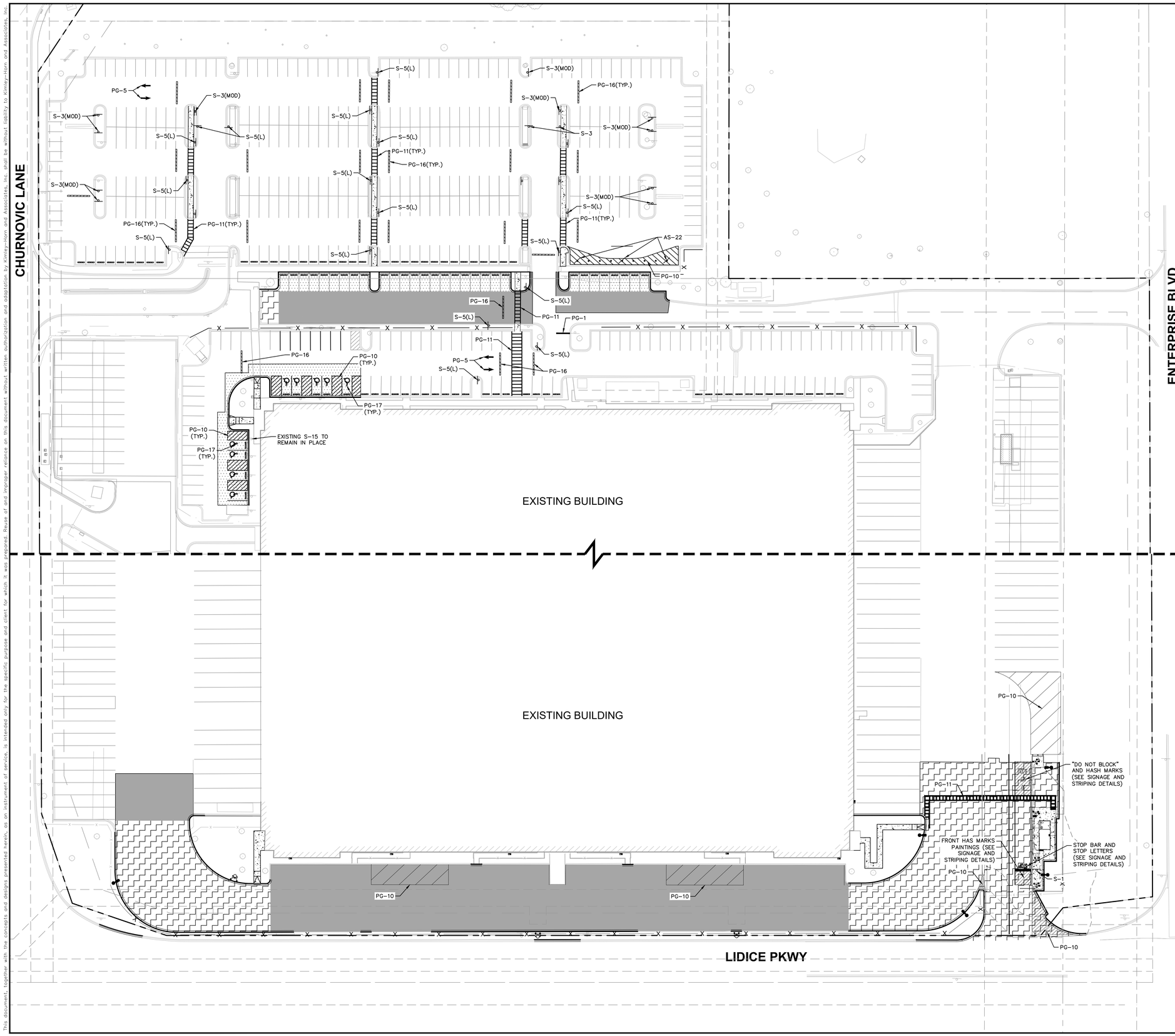
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SITE PLAN

MDW5
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WILL COUNTY IL

SHEET NUMBER
C2.0



GRAPHIC SCALE IN FEET
0 20 40 80

NORTH

TENANT SIGN FACE LEGEND

AS-22	DROP-OFF AND PICK-UP

SIGN FACE LEGEND

S-3(MOD)	SPEED BUMP WITH 5 MPH PLACARD
S-5(L)	PEDESTRIAN CROSSING, LEFT ARROW

STRIPING (PAVEMENT GRAPHIC) LEGEND

PG-1	STOP BAR
PG-5	STRAIGHT ARROW
PG-10	18" STRIPING OUTLINE AND FILL AT 45-DEGREES
PG-16	SPEED BUMP
PG-17	ACCESSIBLE CAR PARKING

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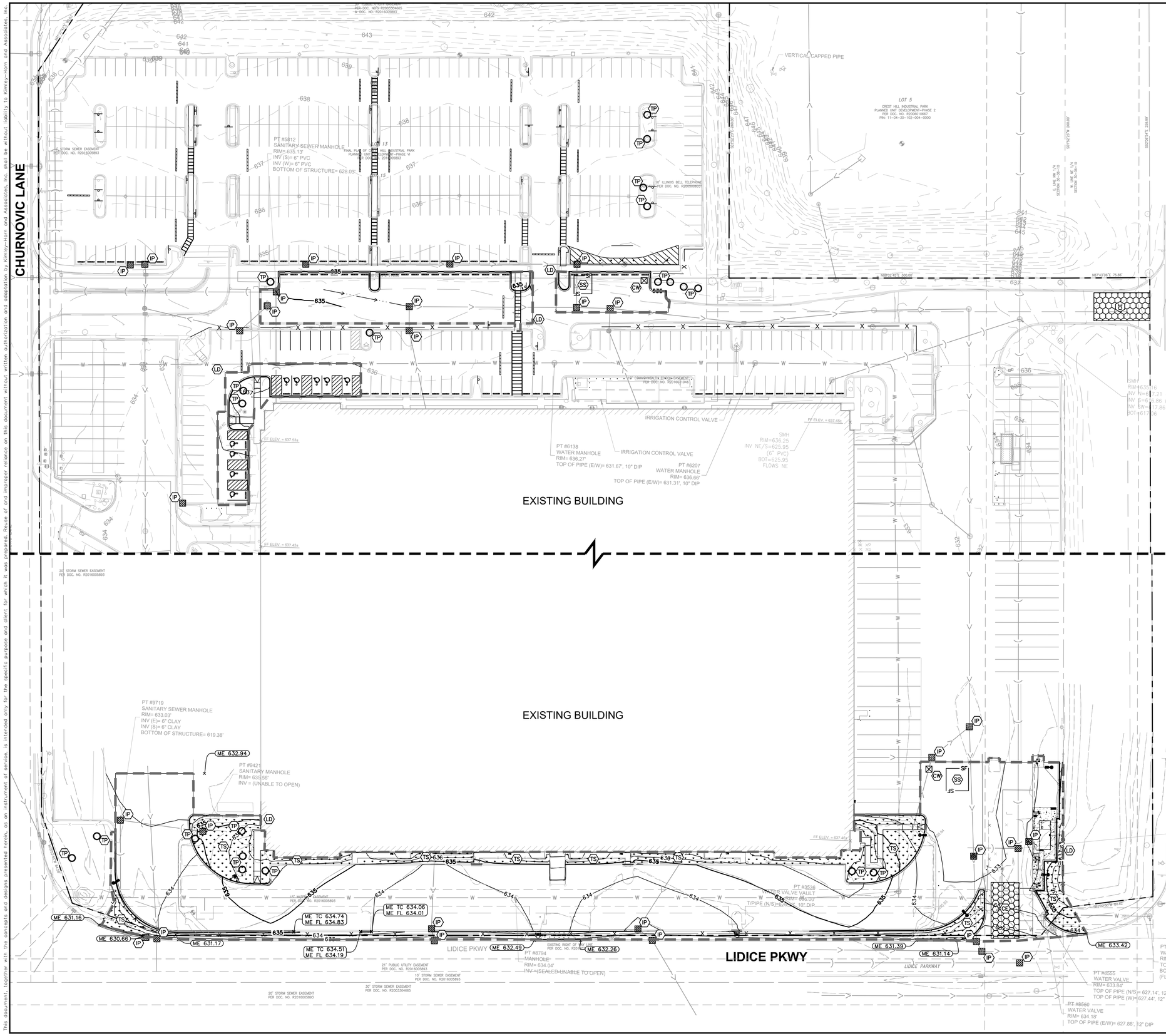
SIGNAGE & STRIPING PLAN

MDW5
16825 CHURNOVIC LANE
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WILL COUNTY IL

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GRAPHIC SCALE IN FEET
0 20 40 80

NORTH

EROSION CONTROL NOTES

1. SEE C4.1 FOR EROSION CONTROL NOTES.

EROSION CONTROL LEGEND

- TS — TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
- EB — TEMPORARY EROSION CONTROL BLANKET (SEE EROSION CONTROL NOTE #7)
- CE — CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
- SF — SILT FENCE (SEE EROSION CONTROL DETAILS)
- IP — INLET PROTECTION (SEE EROSION CONTROL DETAILS)
- CW — CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
- TP — CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
- SS — TEMPORARY SOIL STOCKPILE
- LD — LIMITS OF DISTURBANCE
- XXX — EXISTING CONTOURS
- XXX — PROPOSED CONTOURS

EROSION CONTROL SCHEDULE AND SEQUENCING:

I. *ROUGH GRADING* — *CONSTRUCTION ENTRANCE/EXIT, SILT FENCE PROTECTION, CONCRETE WASHOUT AREA AND TREE PROTECTION SHALL BE INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING, AS NEEDED. TEMPORARY EROSION CONTROL MEASURES TO BE INSTALLED UPON COMPLETION OF ROUGH GRADING AND AS NECESSARY THROUGHOUT CONSTRUCTION.*

II. *UTILITY INSTALLATION* — *ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING UTILITY INSTALLATION. STORM STRUCTURE INLET PROTECTION SHALL BE INSTALLED AS STORM DRAINAGE SYSTEM IS CONSTRUCTED.*

III. *PAVING* — *ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT.*

IV. *FINAL GRADING/SOIL STABILIZATION/ LANDSCAPING* — *ALL TEMPORARY EROSION CONTROL MEASURES TO BE REMOVED AT THE CONCLUSION OF THE PROJECT AS DIRECTED BY THE LOCAL MUNICIPALITY.*

NOTE: THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

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No.	REVISIONS	DATE	BY

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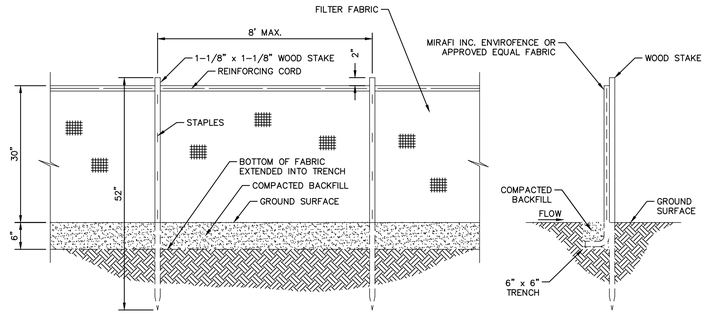
KHA PROJECT 168864455
DATE 7/18/2025
SCALE AS SHOWN
DESIGNED BY: MAG
DRAWN BY: MAG
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EROSION CONTROL PLAN

MDW5
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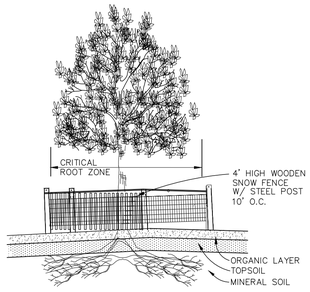
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FRONT VIEW SIDE VIEW

SEDIMENTATION/SILT FENCE (SF)

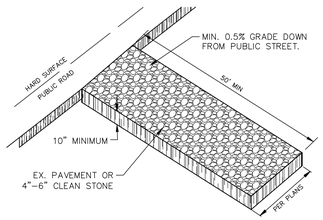
N.T.S.



PROVIDE FENCE AROUND CRITICAL ROOT ZONE OF TREE. FENCE SHALL BE PLACED IN A CIRCLE WITH A RADIUS OF 1' PER 1" DIAMETER OF THE TREE MEASURED AT 4.5' ABOVE GROUND FOR INDIVIDUAL TREES OR STANDS OF TREES.

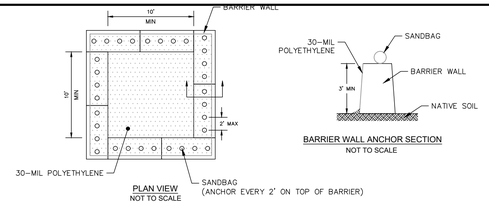
TREE PROTECTION (TP)

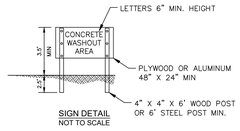
N.T.S.



CONSTRUCTION ENTRANCE (CE)

N.T.S.



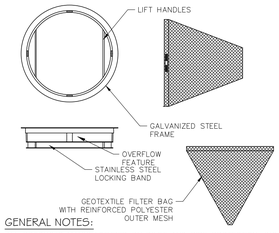


NOTES

1. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDEND CONCRETE AND/OR SLURRY AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION.
2. FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.

CONCRETE WASHOUT (CW)

N.T.S.



GENERAL NOTES:

ALL PRODUCTS MANUFACTURED BY INLET AND PIPE PROTECTION, INC OR APPROVED EQUAL.

NOTE: INLET FILTERS ARE SLIGHTLY SMALLER THAN THE INLET GRATE SIZES. WHEN IDENTIFYING OR SPECIFYING FILTERS/CASTINGS PLEASE REFER TO THE DIAMETER "D" OR WIDTH "W" AND HEIGHT "H" OF FILTER FRAMES OR CASTING GRATES. YOU MAY ALSO REFER TO OUR CASTING CROSS REFERENCE GUIDE FOR IDOT STANDARDS

IDOT TYPE 1 ROUND INLET FILTER DEPICTED

NOTE: ROUND AND SQUARE INLET FILTERS AVAILABLE FOR MOST NEENAH AND EAST JORDAN BEEHIVE, ROLL CURB AND CURB BOX FRAME TYPES

ALL IPP INLET FILTERS TO CONFORM TO IDOT SPECIFICATIONS AS OUTLINED IN ARTICLE 1081.15 OF IDOT'S STANDARD SPECIFICATIONS GUIDE.

INLET PROTECTION (IP)

N.T.S.

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A			*	*					
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C				D					
SODDING			E **									
MULCHING	F											

A KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE

B KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 45 LBS/ACRE + 2 TONS STRAW MULCH/ACRE

C SPRING OATS 100 LBS/ACRE

D WHEAT OR CEREAL RYE 150 LBS/ACRE

E SOD

F STRAW MULCH 2 TONS/ACRE

* WATERING NEEDED DURING JUNE AND JULY

** WATERING NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD

SEEDING CHART (TS)

EROSION CONTROL NOTES

1. CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.
2. POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENT PAVING, DRAINAGE SYSTEM STRUCTURE, OR LANDSCAPING.
3. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
4. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
5. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
6. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST, OR ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY THE PLANNING AND DEVELOPMENT DEPARTMENT AND THE DRAINAGE UTILITY DEPARTMENT. MINOR CHANGES OR ADDITIONAL CONTROL MEASURES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES AT NO ADDITIONAL COST TO THE OWNER.
7. CONTRACTOR SHALL PLACE EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S150BN OR APPROVED EQUAL) ON ALL SITE AREAS WITH SLOPES GREATER THAN 4:1, AND IN THE BOTTOM AND SIDE SLOPES OF ALL SWALES.
8. PRIOR TO FINAL ACCEPTANCE, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.
9. PERMANENT, FINAL PLANT COVERING OR STRUCTURES SHALL BE INSTALLED PRIOR TO FINAL ACCEPTANCE.
10. ALL CONTROL DEVICES THAT FUNCTION SIMILARLY TO SILT FENCE OR FIBER ROLLS MUST BE REPAIRED, REPLACED OR SUPPLEMENTED WITH EFFECTIVE CONTROLS WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES ONE-THIRD THE HEIGHT OF THE DEVICE. THESE REPAIRS MUST BE MADE WITHIN 24 HOURS OF THE RAINFALL EVENT OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
11. ALL SEDIMENT DELTAS AND DEPOSITS MUST BE REMOVED FROM SURFACE WATERS, DRAINAGE WAYS, CATCH BASINS AND OTHER DRAINAGE SYSTEMS. ALL AREAS WHERE SEDIMENT REMOVAL RESULTED IN EXPOSED SOIL MUST BE RESTABILIZED. THE REMOVAL AND STABILIZATION MUST TAKE PLACE IMMEDIATELY, BUT NO MORE THAN 7 DAYS AFTER THE RAINFALL EVENT UNLESS PRECLUDED BY LEGAL, REGULATORY OR PHYSICAL ACCESS CONSTRAINTS. ALL REASONABLE EFFORTS MUST BE USED TO OBTAIN ACCESS. ONCE ACCESS IS OBTAINED, REMOVAL AND STABILIZATION MUST TAKE PLACE IMMEDIATELY, BUT NO MORE THAN 7 DAYS LATER. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL APPROPRIATE AUTHORITIES AND RECEIVING THE APPLICABLE PERMITS PRIOR TO CONDUCTING ANY WORK.
12. ACCUMULATIONS OF TRACKED AND DEPOSITED SEDIMENT MUST BE REMOVED FROM OFF-SITE PAVED SURFACES WITHIN 24 HOURS OR SOONER IF REQUIRED. SEDIMENT TRACKING MUST BE MINIMIZED BY THE APPROPRIATE MANAGEMENT PRACTICE, LIKE A DEDICATED SITE EXIT WITH AN AGGREGATE SURFACE OR DESIGNATED OFFSITE PARKING AREA. CONTRACTOR IS RESPONSIBLE FOR STREET SWEEPING AND/OR SCRAPING IF YOUR PRACTICES ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED FROM THE SITE.
13. SURFACE WATERS, DRAINAGE DITCHES AND CONVEYANCE SYSTEMS MUST BE INSPECTED FOR SEDIMENT DEPOSITS.
14. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES AS INDICATED ON THIS SHEET IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY KIMLEY-HORN AND ASSOCIATES, INC. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE PROVISIONS INDICATED IN THE SWPPP, INCLUDING EROSION CONTROL MEASURES AND INSPECTION FREQUENCY, AS REQUIRED BY THE IEPA NPDES PHASE II PERMIT PROGRAM REQUIREMENTS.
15. PUMPING SEDIMENT LADEN WATER INTO ANY STORMWATER FACILITY THAT IS NOT DESIGNATED TO BE A SEDIMENT TRAP, DRAINAGEWAY, OR OFFSITE AREA EITHER DIRECTLY OR INDIRECTLY WITHOUT FILTRATION IS PROHIBITED.
16. SOIL STOCKPILES SHALL NOT BE LOCATED IN A DRAINAGEWAY, FLOOD PLAIN AREA OR A DESIGNATED BUFFER, UNLESS OTHERWISE APPROVED, UNDER SPECIFIC CONDITIONS TO BE ESTABLISHED BY THE DIRECTOR OR ADMINISTRATOR.
17. STOCKPILES TO REMAIN IN PLACE FOR MORE THAN THREE DAYS SHALL BE PROVIDED WITH SESC MEASURES. MATERIAL IS TO BE HAULED OFF IMMEDIATELY AND LEGALLY IF NO STOCKPILE IS TO REMAIN IN PLACE.
18. ALL TEMPORARY SESC MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED.TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
19. WATER REMOVED FROM TRAPS, BASINS, AND OTHER WATER HOLDING DEPRESSIONS OR EXCAVATIONS MUST FIRST PASS THROUGH A SEDIMENT CONTROL AND/OR FILTRATION DEVICE. WHEN DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION.
20. SITE STABILIZATION REQUIREMENTS ARE AS FOLLOWS:

20.1. WHERE THE INITIATION OF STABILIZATION MEASURE BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES ON A PORTION OF THE SITE IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURE SHALL BE INITIATED AS SOON AS PRACTICABLE.

20.2. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.

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PHONE: 630-487-5550
WWW.KIMLEY-HORN.COM

KHA PROJECT 168864455
DATE 7/18/2025
SCALE AS SHOWN
DESIGNED BY: MAG
DRAWN BY: MAG
CHECKED BY: JF

EROSION CONTROL DETAILS

MDW5
16825 CHURNOVIC LANE
CREST HILL, IL 60435
WILL COUNTY IL

SHEET NUMBER
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CHURNOVIC LANE

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GRAPHIC SCALE IN FEET 0 20 40 80

NORTH

EXISTING BUILDING

EXISTING BUILDING

LIDICE PKWY

GRADING DETAIL 1 SEE DETAIL ON SHEET C5.1

GRADING DETAIL 2 SEE DETAIL ON SHEET 5.1

GRADING DETAIL 3 SEE DETAIL ON SHEET C5.1

GRADING NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING TOPOGRAPHY AND STRUCTURES ON THE SITE AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.
2. ALL PAVEMENT SPOT GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO FLOW LINE ELEVATIONS UNLESS OTHERWISE NOTED.
3. ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR TO COORDINATE WITH EXCAVATION, LANDSCAPE AND PAVING SUBCONTRACTORS REGARDING TOPSOIL THICKNESS FOR LANDSCAPE AREAS AND PAVEMENT SECTION THICKNESS FOR PAVED AREAS TO PROPERLY ENSURE ADEQUATE CUT TO ESTABLISH SUBGRADE ELEVATIONS.
4. NO EARTHEN SLOPE SHALL BE GREATER THAN 3:1, UNLESS OTHERWISE NOTED.
5. MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS.
6. MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS AND ACCESSIBLE ROUTES.
7. WHEN NATURAL FLOW OF DRAINAGE IS AWAY FROM CURB, CONTRACTOR TO INSTALL REVERSE GUTTER PITCH.
8. MATCH EXISTING ELEVATIONS AT THE PROPERTY LIMITS.

GRADING LEGEND

TP = TOP OF PAVEMENT
EP = EDGE OF PAVEMENT
FL = FLOW LINE
TC = TOP OF CURB
TF = TOP OF FOUNDATION
R = RIM ELEVATION
TW = TOP OF WALL
FG = FINISHED GRADE
TS = TOP OF STAIRS
BS = BOTTOM OF STAIRS
ME = MATCH ELEVATION

(CONTRACTOR TO VERIFY ALL MATCH EXISTING SPOT GRADE ELEVATIONS AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.)

- XXX — PROPOSED CONTOUR
- XXX — EXISTING CONTOUR
- RIDGE — RIDGE LINE
- X.XX% — SLOPE AND FLOW DIRECTION
- 100-YEAR OVERLAND OVERFLOW ROUTE
- DETENTION BASIN 100-YEAR EMERGENCY OVERLAND OVERFLOW ROUTE
- PROPOSED SWALE
- PROPOSED RETAINING WALL

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GRADING PLAN

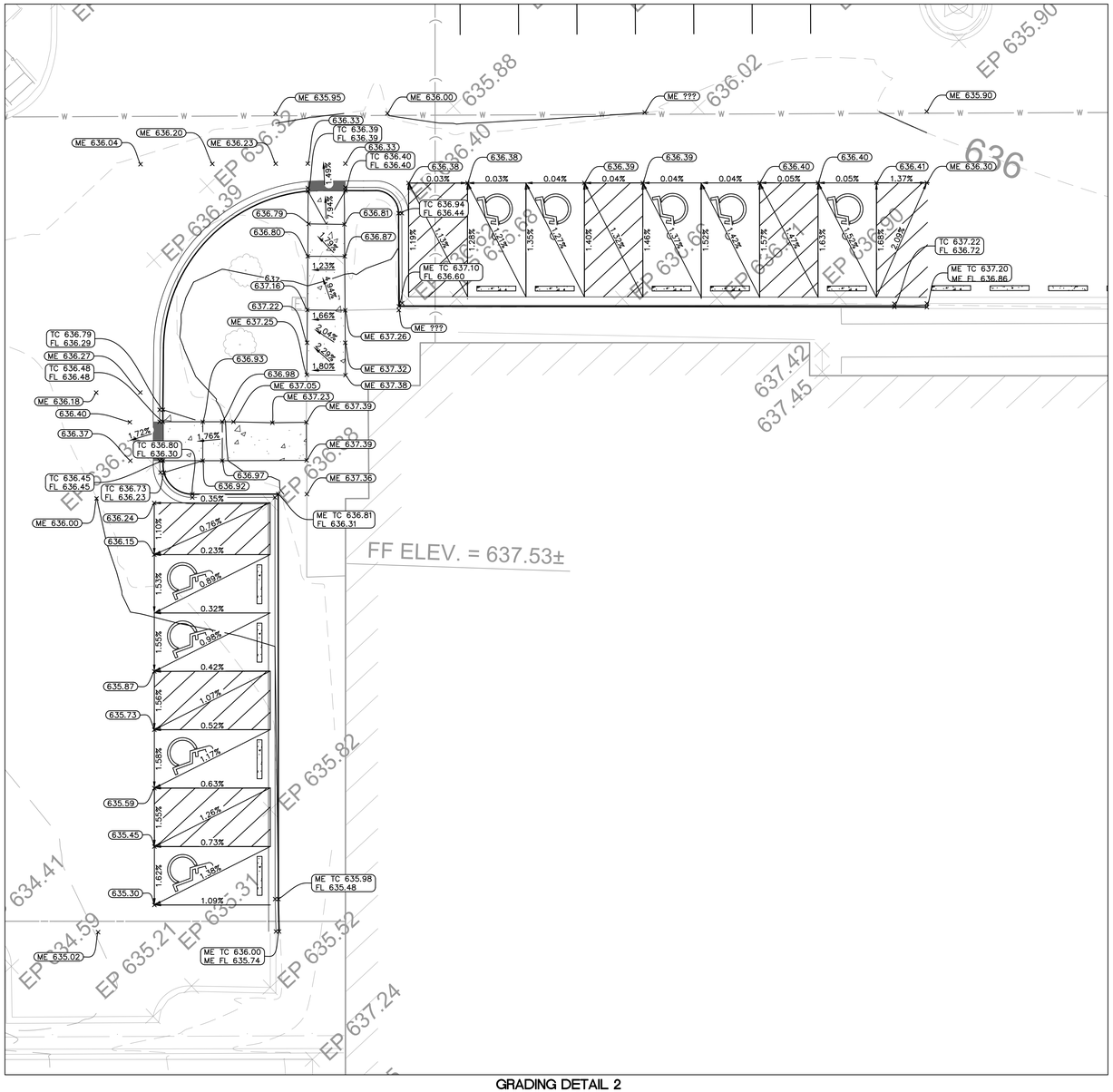
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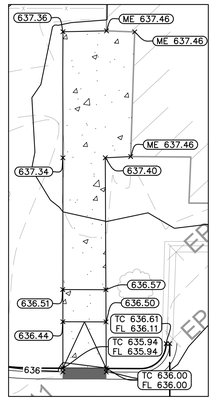
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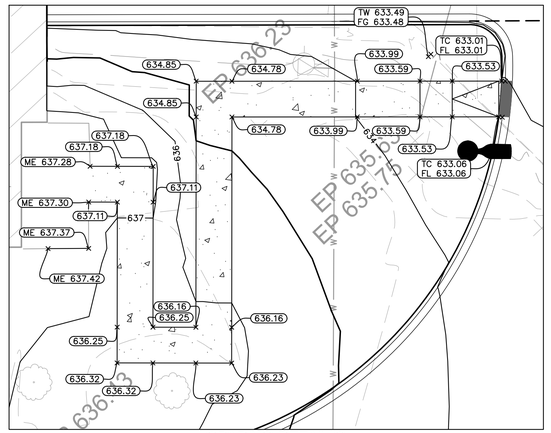
NORTH



GRADING DETAIL 2
1" = 10'



GRADING DETAIL 2
1" = 10'



GRADING DETAIL 3
1" = 10'

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XXX	PROPOSED CONTOUR
XXX	EXISTING CONTOUR
RIDGE	RIDGE LINE
X.XX%	SLOPE AND FLOW DIRECTION
	100-YEAR OVERLAND OVERFLOW ROUTE
	DETENTION BASIN 100-YEAR EMERGENCY OVERLAND OVERFLOW ROUTE
	PROPOSED SWALE
	PROPOSED RETAINING WALL

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CHURNOVIC LANE

ENTERPRISE BLVD

LIDICE PKWY

EXISTING BUILDING

EXISTING BUILDING

PT #6690
STORM INLET
RIM= 634.34'
INV (E)= 631.09', 12" RCP

PT #6698
MANHOLE
RIM= 634.67'
INV= (UNABLE TO OPEN)

PT #5812
SANITARY SEWER MANHOLE
RIM= 635.13'
INV (S)= 6" PVC
INV (W)= 6" PVC
BOTTOM OF STRUCTURE= 628.03'

PT #7223
INLET ROUND
RIM= 634.39'
INV (E)= 631.19', 15" RCP

PT #5109
STORM MANHOLE
RIM= 634.14'
INV (E)= 629.07', 24" RCP (PER REC DRAWING)
INV (W)= 629.07', 18" RCP(PER REC DRAWING)

PT #5694
CATCH BASIN
RIM= 634.34'
INV (E)= 630.39', 15" RCP
INV (W)= 630.44', 15" RCP

PT #5177
STORM MANHOLE
RIM= 634.87'
INV (WS)= 629.66', 15" RCP (PER REC DRAWING)
INV (E)= 630.69', 12" RCP (PER REC DRAWING)

PT #5183
STORM MANHOLE
RIM= 634.38'
INV (W)= 631.33', 12" RCP

PT #5094
STORM MANHOLE
RIM= 634.46'
INV (W)= 628.01', 24" RCP
INV (E)= 627.96', 30" RCP

PT #6318
STORM MANHOLE
RIM= 634.30'
INV (E/W)= 628.40', 30" RCP

PT #5844
STORM MANHOLE
RIM= 634.90'
INV = (UNABLE TO OPEN)
36" LID

PT #7392
STORM MANHOLE
RIM= 634.61'
INV (NW)= 631.51', 12" RCP
INV (NE)= 631.61', 12" RCP

STMH# 2018
RIM=633.97
INV E=629.57 (15" RCP)
INV SW=629.59 (15" RCP)
BOT=629.35

FF ELEV. = 637.53±

PT #5916
ROUND INLET
RIM= 634.66'
INV= (UNABLE TO OPEN)

PT #5795
ROUND INLET
RIM= 634.13'
INV (NW)= 629.99', 6" PVC
INV (E)= 629.64', 18" RCP
INV (S)= 629.84', 15" RCP

PT #6138
WATER MANHOLE
RIM= 636.27'
TOP OF PIPE (E/W)= 631.67', 10" DIP

IRRIGATION CONTROL VALVE

PT #6271
STORM MANHOLE
RIM= 635.34'
INV=UNABLE TO OPEN

IRRIGATION CONTROL VALVE

PT #6207
WATER MANHOLE
RIM= 636.66'
TOP OF PIPE (E/W)= 631.31', 10" DIP

FF ELEV. = 637.49±

SMH
RIM=636.25
INV NE/S=625.95 (6" PVC)
BOT=625.95
FLOWS NE

STMH# 2950
RIM=634.43
INV SE=628.13 (12" RCP)
INV N=629.63 (6" PVC)
INV E=627.88 (30" RCP)
INV W=627.93 (24" RCP)
T/WATER=627.53
BOT=624.73

STMH# 3122
RIM=635.06
INV NW=628.26 (12" RCP)

IN# 1107
RIM=637.77
INV S=634.77 (15" RCP)
INV N=634.77 (12" RCP)
T/DEBRIS=635.07

VERTICAL CAPPED PIPE

PT #8050
STORM MANHOLE
RIM= 637.69'
INV (N)= 635.59', 15" RCP
INV (NE) = 635.64', 12" RCP

PT #8051
STORM MANHOLE
RIM= 637.36'
INV (S)= 634.86', 12" RCP

STMH# 2942
RIM=636.93
INV N=632.78 (12" RCP)
INV SE=632.63 (6" PVC)
BOT=632.58

STMH# 2949
RIM=636.00
INV E=630.05 (6" PVC)
INV S=630.00 (6" PVC)
INV W=632.40 (6" PVC)
BOT=630.00

STMH# 3000
RIM=634.05
INV W=628.55 (30" RCP)
INV S=628.45 (30" RCP)
T/WATER=628.45
BOT=625.35

PT #9719
SANITARY SEWER MANHOLE
RIM= 633.03'
INV (E)= 6" CLAY
INV (S)= 6" CLAY
BOTTOM OF STRUCTURE= 619.38'

PT #9421
SANITARY MANHOLE
RIM= 635.56'
INV = (UNABLE TO OPEN)

PT #8801
STORM MANHOLE
RIM= 633.09'
INV (SW) = 629.59', 18" RCP
INV (N)= 629.59', 12" RCP

PT #8870
STORM MANHOLE
RIM= 632.78'
INV (NE)= 628.58', 12" RCP
INV (SE)= 628.53', 15" RCP

PT #4032
STORM MANHOLE
RIM= 631.62'
INV (N/S)= 623.90', 42" RCP
INV (SW)= 623.97', 12" RCP

PT #4046
STORM MANHOLE
RIM= 632.56'
INV (NE)= 624.49', 12" RCP
INV (W)= 629.13', 12" RCP
INV (S)= 628.93', 12" RCP

FF ELEV. = 637.46±

19 LF OF 6" PVC
91 LF OF 6" PVC
21 LF OF 6" PVC
11 LF OF 6" PVC @ 30.31%
11 LF OF 6" PVC @ 30.32%

W1 W2 W3 W4 W5 W6 W7 W8
X1 X2
S1 S2 S3
D1

19 LF OF 6" DIP
33 LF OF 6" DIP
33 LF OF 6" DIP

PT #3536
WATER VALVE VAULT
RIM= (NOT)
T/PIPE (N/S)=626.98', 10" DIP

PT #9628
STORM INLET
RIM= 631.35'
627.95', 12" RCP

PT #9604
STORM INLET
RIM= 630.55'
INV = (UNABLE TO DIP DUE TO DEBRIS)

PT #9594
STORM INLET
RIM= 630.58'
INV (N)= 621.98', 54" RCP
INV (S)= 621.88', 54" RCP

PT #8712
STORM INLET
RIM= 632.01'
INV (NW)= 628.46', 18" RCP
(UNABLE TO SEE OTHER PIPES)

PT #8794
MANHOLE
RIM= 634.04'
INV = (SEALED-UNABLE TO OPEN)

PT #8983
STORM INLET
RIM= 631.51'
INV (NW)= 627.91', 15" RCP
INV (SE)= 627.86', 15" RCP

PT #8386
MANHOLE
RIM= 631.94'
INV (N)= 622.11', 36" RCP
INV (S)= 622.01', 36" RCP

PT #3504
STORM MANHOLE
RIM= 631.14'

PT #3434
STORM MANHOLE
RIM= 633.25'
INV (W)= 622.60', 72" RCP
INV (E)= 617.55', 72" RCP

PT #8555
WATER VALVE
RIM= 633.84'
TOP OF PIPE (N/S)= 627.14', 12" DIP
TOP OF PIPE (W)= 627.44', 12" DIP

PT #8550
WATER VALVE
RIM= 634.18'
TOP OF PIPE (E/W)= 627.88', 12" DIP

PT #858
WATER
RIM= 63
TOP OF
BOTTOM
(FLOOD

SMH#
RIM=636.16
INV N=617.21 (22"
INV S=616.86 (22"
INV SW=617.86 (6"
BOT=617.06

STMH# 3334
RIM=633.43
INV N=628.93 (12" RCP
INV W=629.03 (12" RCP
INV SE=626.98 (15" RCP
BOT=626.73

GRAPHIC SCALE IN FEET
0 20 40 80

NORTH

UTILITY LEGEND

- EX. WATER LINE
- EX. WATER VALVE
- EX. FIRE HYDRANT
- EX. SANITARY SEWER LINE
- EX. SANITARY SEWER MANHOLE
- EX. STORM DRAIN LINE
- EX. STORM MANHOLE
- EX. STORM STRUCTURE/INLET
- EX. LIGHT POLE
- EX. TELECOM. PEDESTAL
- PROPOSED OPEN LID STORM STRUCTURE (PAVEMENT USE NEENAH R-2540) (GRASS USE NEENAH R-4340-B BEEHIVE)
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY MANHOLE
- PROPOSED WATER LINE
- PROPOSED FIRE HYDRANT

UTILITY NOTES

1. ALL WATER LINES ≥ 3" SHALL BE DUCTILE IRON PIPE, CLASS 52.
2. ALL SANITARY SEWER LINES SHALL BE PVC MEETING, ASTM D-3034 SDR 26 EXCEPT FOR SANITARY SEWER THAT CROSSES ABOVE WATER MAIN, THIS PIPE SHALL BE AWWA C900 (UNLESS WATER MAIN CASING IS UTILIZED). PROVIDE 42" MINIMUM COVER.
3. CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
4. ALL ELECTRIC AND TELEPHONE EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
5. CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
6. CONTRACTOR TO CALL "JULIE" (1-800-892-0123) TO COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE ORDERING MATERIALS OR COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
7. PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE ENGINEER AND THE OWNER/ DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION. THE MUNICIPALITY SHALL BE NOTIFIED OF ANY AND ALL CHANGES TO THE DESIGN PLANS.
8. CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
9. CONTRACTOR TO AVOID DISRUPTION OF ANY ADJACENT TENANT'S TRAFFIC OPERATIONS DURING INSTALLATION OF UTILITIES.
10. ALL DIMENSIONS ARE TO CENTERLINE OF PIPE OR CENTER OF MANHOLE UNLESS NOTED OTHERWISE.
11. SEE ARCHITECTURAL AND MEP PLANS FOR EXACT UTILITY CONNECTION LOCATIONS AT BUILDING.
12. LIGHT POLES SHOWN FOR COORDINATION PURPOSES ONLY AND DO NOT REPRESENT ACTUAL SIZE. SEE SITE LIGHTING PLANS BY OTHERS FOR MORE INFORMATION.
13. SEE DETAILS FOR LOCATING STORM STRUCTURES WITHIN THE CURB LINE.
14. STORMWATER FACILITIES MUST BE FUNCTIONAL BEFORE BUILDING CONSTRUCTION BEGINS IF REQUIRED BY AUTHORITY HAVING JURISDICTION.

UTILITY CROSSING LEGEND

X1	42" STORM	B/P = 623.13
	6" WATER	T/P = 621.63
X2	6"WATER	B/P = 628.10
	12"SAN.	T/P = 624.36

NOTE: WHERE THERE IS LESS THAN 10 FT HORIZONTAL OR 18-IN VERTICAL SEPARATION BETWEEN A SEWER AND WATER MAIN, OR IF WATER MAIN CROSSES UNDER A SEWER, WATER MAIN QUALITY PIPE IS TO BE USED TO CONSTRUCT THE SEWER OR EITHER PIPE IS TO BE ENCASED. THE PROTECTION MUST EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE DISTANCE BETWEEN THE WATER MAIN AND SEWER IS AT LEAST 10 FT. ACCEPTABLE WATER MAIN QUALITY PIPE INCLUDES PVC SDR/WMQ MEETING ASTM D2241 WITH JOINTS MEETING ASTM D3139 OR DUCTILE IRON PIPE. RCP STORM SEWER WITH FLEXIBLE GASKET JOINTS MEETING ASTM C361 OR ASTM C443 IS ALSO ACCEPTABLE AT CROSSINGS.

Call Before You Dig
JULIE
1-800-892-0123

No.	REVISIONS	DATE	BY

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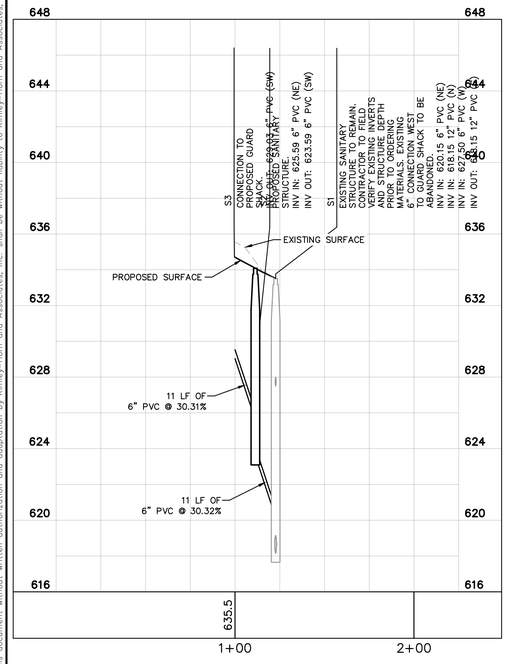
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PHONE: 630-487-5550
WWW.KIMLEY-HORN.COM

KHA PROJECT: 168664455
DATE: 7/18/2025
SCALE: AS SHOWN
DESIGNED BY: MAG
DRAWN BY: MAG
CHECKED BY: JF

UTILITY PLAN

MDW5
16825 CHURNOVIC LANE
CREST HILL, IL 60435
WILL COUNTY IL

SHEET NUMBER
C6.0



SANITARY SEWER

V: 1"= 4' H: 1"= 40'

STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D1	PROPOSED STORM STRUCTURE. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING STORM PIPE PRIOR TO ORDERING MATERIALS. RIM: 632.00 INV IN: 622.82 (N, 42") INV OUT: 622.82 (S, 42")

SANITARY STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
S1	EXISTING SANITARY STRUCTURE TO REMAIN. CONTRACTOR TO FIELD VERIFY EXISTING INVERTS AND STRUCTURE DEPTH PRIOR TO ORDERING MATERIALS. EXISTING 6" CONNECTION WEST TO GUARD SHACK TO BE ABANDONED. RIM: 633.51 INV IN: 620.15 (NE, 6") INV IN: 618.15 (N, 12") INV IN: 627.50 (W, 6") INV OUT: 618.15 (S, 12")
S2	PROPOSED SANITARY STRUCTURE. RIM: 634.09 INV IN: 625.59 (NE, 6") INV OUT: 623.59 (SW, 6")

MISCELLANEOUS SANITARY STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
S3	CONNECTION TO PROPOSED GUARD SHACK. INV OUT: 629.03 (SW, 6")

WATER STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
W1	CONNECTION TO EXISTING 10" WATER MAIN. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, & DEPTH PRIOR TO ORDERING MATERIALS. FG ELEV: 634.37
W2	CONNECTION TO PROPOSED GUARD SHACK. METER AND BACKFLOW PREVENTER TO BE INSTALLED INTERNAL TO GUARD SHACK. FG ELEV: 634.70
W3	CUT IN CONNECTION TO EXISTING 10" WATER MAIN. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, & DEPTH PRIOR TO ORDERING MATERIALS. FG ELEV: 634.42
W4	PROPOSED FIRE HYDRANT. SEE CONSTRUCTION DETAILS FOR HYDRANT AND VALVE ASSEMBLY. FG ELEV: 633.65

WATER STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
W5	CUT IN CONNECTION TO EXISTING 10" WATER MAIN. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, & DEPTH PRIOR TO ORDERING MATERIALS. FG ELEV: 634.14
W6	PROPOSED FIRE HYDRANT. SEE CONSTRUCTION DETAILS FOR HYDRANT AND VALVE ASSEMBLY. FG ELEV: 633.98
W7	CUT IN CONNECTION TO EXISTING 10" WATER MAIN. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, & DEPTH PRIOR TO ORDERING MATERIALS. FG ELEV: 635.10
W8	PROPOSED FIRE HYDRANT. SEE CONSTRUCTION DETAILS FOR HYDRANT AND VALVE ASSEMBLY. FG ELEV: 635.94

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Call Before You Dig JULIE 1-800-892-0123

No.	REVISIONS	DATE	BY

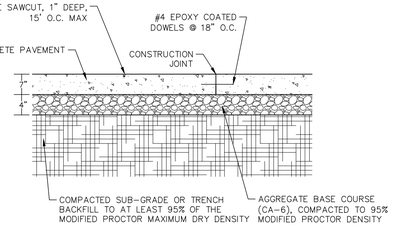
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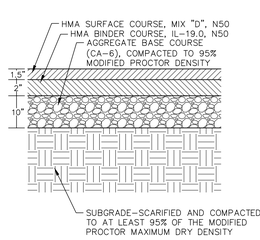
UTILITY PROFILES & TABLES

SHEET NUMBER
C6.1



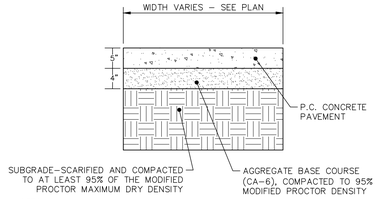
HEAVY DUTY CONCRETE PAVEMENT SECTION

N.T.S.



HEAVY DUTY ASPHALT PAVEMENT SECTION

N.T.S.

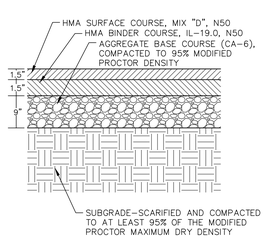


NOTES:

1. PROVIDE 1/2" EXPANSION JOINTS AT 20', MAXIMUM, SPACING AND FILLED WITH PREMOLDED BITUMINOUS EXPANSION JOINT FILLER MATERIAL OR REDWOOD. EXPANSION JOINTS SHALL HAVE #4 DOWELS, LUBRICATED, 18" LONG, AT 12" CENTERS, 6" FROM EDGE.
2. PROVIDE 3/8" GROOVED CONTROL JOINTS AT 5' CENTERS.
3. WELDED WIRE FABRIC (6X6-6X6) SHALL BE INSTALLED THROUGH DRIVEWAYS AT 2" ABOVE SLAB BOTTOM.
4. PROVIDE 1/2" BITUMINOUS EXPANSION JOINT FILLER MATERIAL WHERE WALK ABUTS EXISTING IMPROVEMENTS AND AT ALL CHANGES IN GRADE
5. USE 2-#4 REINFORCING BARS, 10' LONG OVER ALL UTILITY TRENCHES FOR NEW SIDEWALK AND CONNECTIONS TO EXISTING SIDEWALK.
6. AT DRIVE APPROACHES, SIDEWALK PCC AND BASE THICKNESS SHALL MATCH THAT OF THE DRIVE.

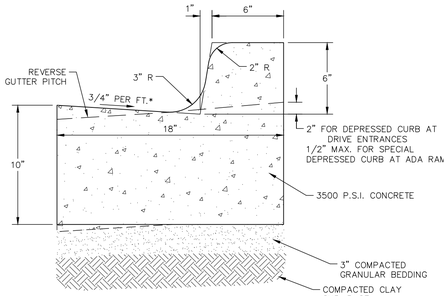
CONCRETE SIDEWALK

N.T.S.



STANDARD DUTY ASPHALT PAVEMENT SECTION

N.T.S. 10/19/20

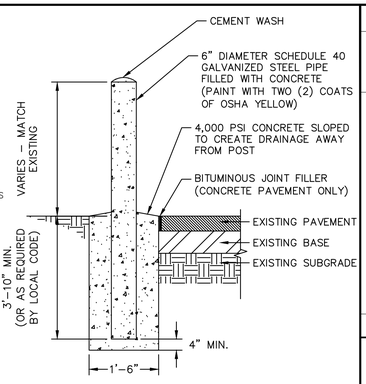


NOTES: USE TWO - #5 REBARS FOR 10 L.F. ON EITHER SIDE OF ALL UTILITY TRENCHES. INSTALL EXPANSION JOINTS EVERY 50 FT. AND SAW-CUT CONSTRUCTION JOINTS EVERY 25 FT.

* MAXIMUM GUTTER SLOPE AT ADA RAMPS TO BE 5.0%

B6.12 CURB & GUTTER

N.T.S.



BOLLARD

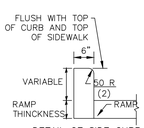
N.T.S.

GENERAL NOTES:

1. THE MAXIMUM SLOPE OF THE SIDE FLARE FOR TYPE B RAMPS SHALL BE 1:10; HOWEVER, IF THE WIDTH OF THE LANDING AREA BETWEEN THE TOP OF THE RAMP AND AN OBSTRUCTION IS LESS THAN (4'-0") THEN THE MAXIMUM SLOPE SHALL BE 1:12.
2. ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMNT (V:H).
3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
4. RAMP DETAILS TO BE COORDINATED PER VILLAGE REQUIREMENTS.
5. DETECTABLE WARNINGS SHALL CONSIST OF TRUNCATED DOMES WHICH CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.
6. CONTRACTOR TO SELECT ADA DETECTABLE WARNING PERMEABLE PAVERS OR CONCRETE WITH ADA DETECTABLE WARNING DOMES FOR RAMPS.

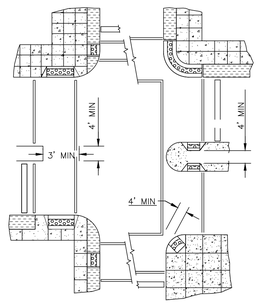
LEGEND

- SIDEWALK
- RAMP
- DETECTABLE WARNINGS
- NON WALKING AREA
- FACE OF BUILDING

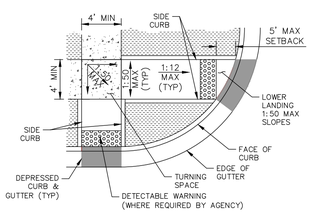


DETAIL OF SIDE CURB

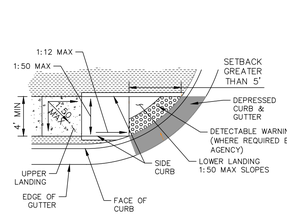
(SIDE CURB MAY BE CONSTRUCTED MONOLITHICALLY WITH RAMP)



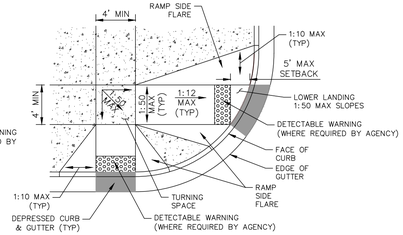
RECOMMENDED LOCATION OF RAMPS



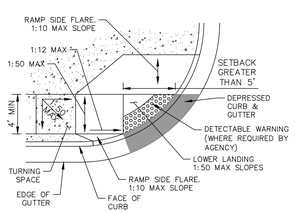
RAMPS IN LANDSCAPED AREA (SETBACK < 5')



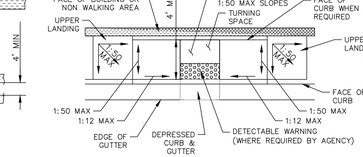
RAMPS IN LANDSCAPED AREA (SETBACK > 5')



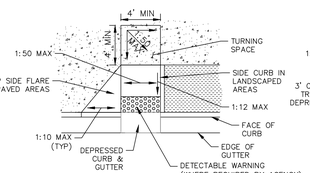
RAMPS IN PAVED AREA (SETBACK < 5')



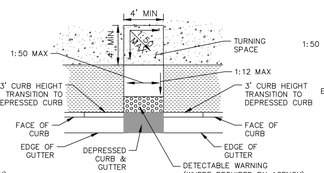
RAMPS IN PAVED AREA (SETBACK > 5')



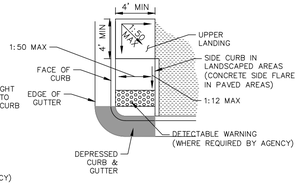
PARALLEL MID-BLOCK CURB RAMP



PERPENDICULAR MID-BLOCK CURB RAMP



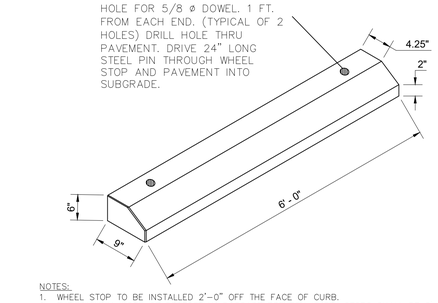
PERPENDICULAR MID-BLOCK CURB RAMP (OPTION 2)



RAMPS ADJACENT TO PAVEMENT

SIDEWALK AND SIDEWALK RAMPS

N.T.S.

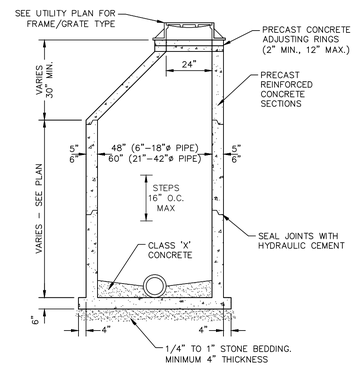


NOTES:

1. WHEEL STOP TO BE INSTALLED 2'-0" OFF THE FACE OF CURB.
2. THE MINIMUM WIDTH OF PEDESTRIAN PASSAGE BETWEEN WHEEL STOPS SHALL BE 3'.
3. WHEEL STOPS SHOULD BE NO LONGER THAN 6' WIDE AND PLACED IN THE CENTER OF PARKING STALLS.
4. WHEEL STOPS SHALL NOT EXCEED 6.5" IN HEIGHT ABOVE THE PARKING LOT SURFACE.
5. CONCRETE WHEEL STOP TO BE PAINTED SAFETY YELLOW.

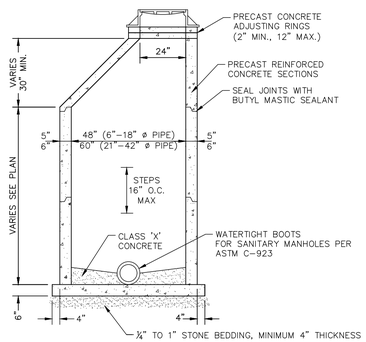
CONCRETE WHEEL STOP

N.T.S.



STORM MANHOLE TYPE A

N.T.S.

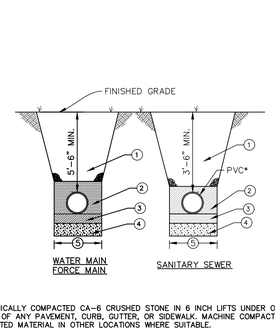


NOTES:

1. UNLESS OTHERWISE NOTED, USE THE FOLLOWING FRAMES & GRATES OR EQUALS:
   1.1. -IN PAVED AREAS: NEENAH R-1713 OR APPROVED EQUAL W/TYPE B COVER (CLOSED)
   1.2. -IN GRASS: NEENAH R-1711 W/TYPE B COVER (CLOSED)
2. EAST JORDAN EQUIVALENTS ALSO MAY BE USED.
3. ALL COVERS SHALL BE SELF SEALING WITH CONCEALED PICK HOLES AND HAVE "SANITARY" CAST ON THE COVER.
4. SANITARY MANHOLES NEED WATER PROOF COATING ON EXTERIOR AND STEPS.
5. MASTIC ROPE REQUIRED BETWEEN ALL PRECAST SECTIONS WITH CHIMNEY SEAL.
6. WATER PROOF WRAP REQUIRED ON ALL JOINTS.
7. HYDRAULIC CEMENT REQUIRED FOR ANY ANNULAR SPACES AROUND THE PIPES AND BOOTS.

SANITARY MANHOLE

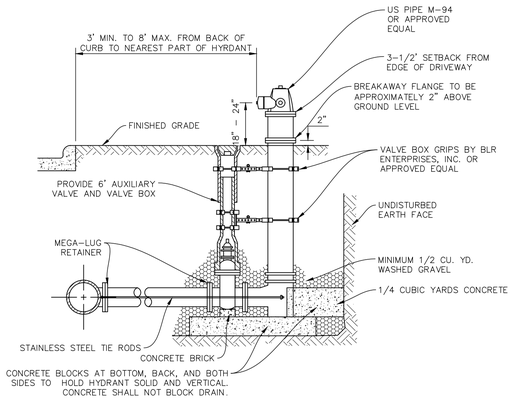
N.T.S.



1. MECHANICALLY COMPACTED CA-6 CRUSHED STONE IN 6 INCH LIFTS UNDER OR WITHIN 2 FEET OF ANY PAVEMENT, CURB, GUTTER, OR SIDEWALK. MACHINE COMPACTION OF EXCAVATED MATERIAL IN OTHER LOCATIONS WHERE SUITABLE.
2. WATERMAIN & FORCEMAIN: CA-11 CRUSHED STONE TAMPED INTO PLACE TO SPRING LINE OF DUCTILE IRON PIPE
   STORM SEWER & SANITARY SEWER: CA-11 CRUSHED STONE TAMPED INTO PLACE TO SPRING LINE OF PIPE *ADDITIONAL 12" OF CA-11 CRUSHED STONE ABOVE TOP OF PVC PIPE.
3. 4" BED MECHANICALLY COMPACTED CA-11 CRUSHED STONE
4. UNSUITABLE MATERIAL TO BE REMOVED AND REPLACED WITH GRANULAR MATERIAL AS DIRECTED BY GEOTECHNICAL ENGINEER.
5. TRENCH WIDTH: OUTSIDE DIAMETER + 18 IN.

PIPE BEDDING DETAIL

N.T.S.



GENERAL NOTES:

1. MAXIMUM BARREL EXTENSIONS ARE 18 INCHES AND SHALL BE WATEROUS EXTENSION FOR WATEROUS HYDRANTS.
2. ALL HYDRANTS ARE TO BE SUPPLIED WITH A 6" FLANGED AND MECHANICAL JOINT AUXILIARY VALVE THAT CONFORMS TO AWWA 500-80. ALL TRIM BOLTS ARE TO BE STAINLESS STEEL.
3. ALL BELOW GRADE FASTENERS TO BE STAINLESS STEEL:
   A. BOLTS AND THREADED RODS - GRADE #304
   B. NUTS AND WASHERS - GRADE #300
4. MEGA-LUG RETAINERS MUST BE INSTALLED ON ALL MECHANICAL FITTINGS.

FIRE HYDRANT

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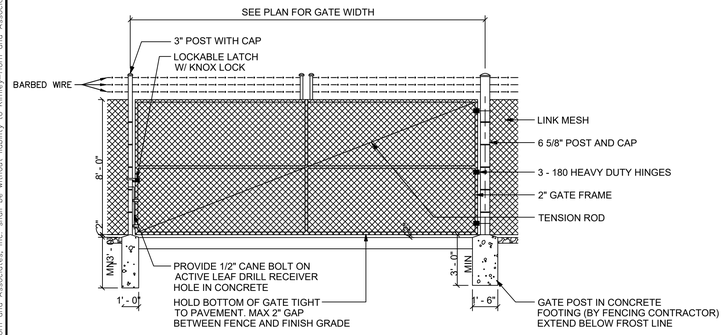
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KHA PROJECT 168864455
DATE 7/18/2025
SCALE AS SHOWN
DESIGNED BY: MAC
DRAWN BY: MAG
CHECKED BY: JF

CONSTRUCTION DETAIL

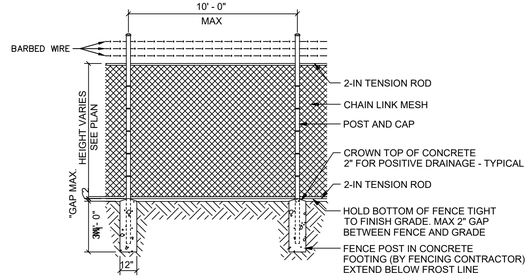
MDW5
16825 CHURNOVIC LANE
CREST HILL, IL 60435
WILL COUNTY IL

SHEET NUMBER
C7.0



DOUBLE SWING GATES

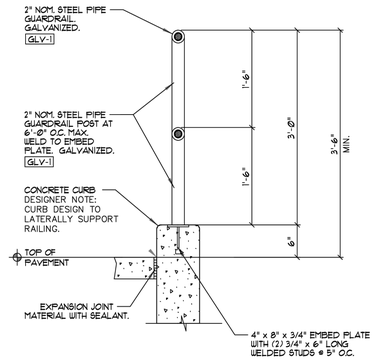
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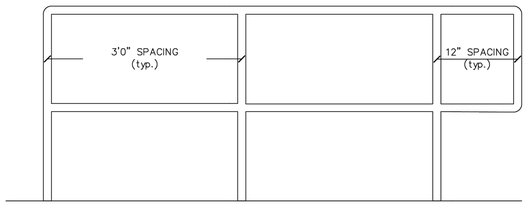
CHAIN LINK FENCE

N.T.S.

NOTE:
ALL JOINTS SHALL BE WELDED AND GROUND SMOOTH. ALL PIPE TO BE SCHEDULE 40. PAINT SAFETY YELLOW.



GUARDRAIL DETAIL

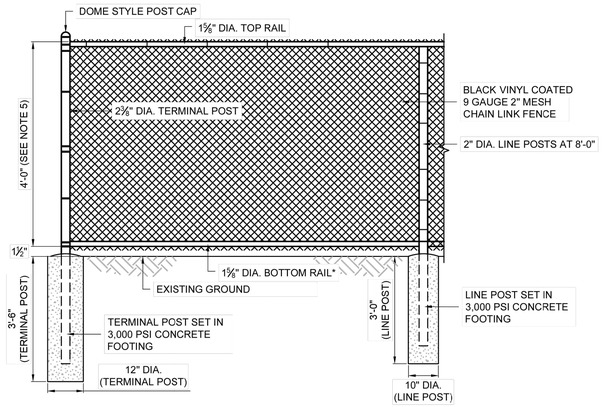


NOTE:
VERIFY RAILING POST SPACING AND CURB EMBED DESIGN WITH STRUCTURAL ENGINEER OF RECORD.

0 1' 2' 3' 4'
GRAPHIC SCALE

NOTES:
1. ALL FENCE ELEMENTS SHALL BE BLACK VINYL COATED
2. POST CAPS SHALL BE DOME STYLE
3. FENCE TIES SHALL BE 9 GAUGE BLACK VINYL COATED
4. FENCE DEPTHS MAY VARY PER LOCAL CODES
5. FENCE HEIGHT MAY REQUIRE PERMITTING BY LOCAL AUTHORITY HAVING JURISDICTION
6. TO BE INSTALLED TO SAFELY ROUTE PEDESTRIANS TO DESIGNATED CROSSWALKS AND TO PREVENT UNSAFE CROSSING OUTSIDE DESIGNATED AREAS
7. FENCE SETBACK FROM CURBING VARIES PER LOCAL REGULATORY REQUIREMENTS, SNOW CONDITIONS AND SIGHTLINES

*BOTTOM RAIL MAY BE REPLACED BY A BOTTOM WIRE



PEDESTRIAN BARRIER FENCE DETAIL

N.T.S.

No.	REVISIONS	DATE	BY

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MDW5
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WILL COUNTY
IL

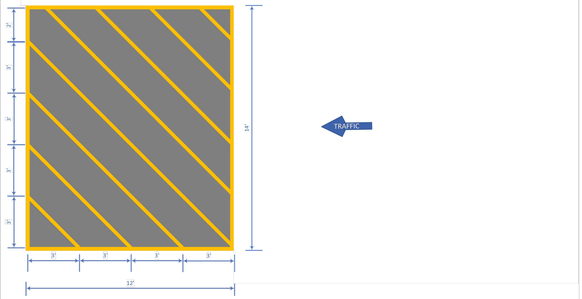
SHEET NUMBER
C7.1

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FRONT HASH MARKS PAINTING SPECIFICATIONS

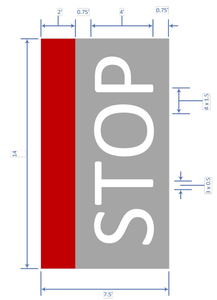
Front yellow hash markings to be done in 4 inch thick lines. Reflective glass beads MUST be added to the paint. Paint must be water based in Highway Gothic Sans Serif font Layout on how to prepare for this is on sheets 11 and 12.



Client	Amazon TOM TIE	Page 11 of 20	Prepared by	Charles Mayaka	Date	2/17/2023
Process	ALPR STANDARD LAYOUT		Approved by	Seth Dorfman	Date	2/17/2023

STOP BAR AND STOP LETTERS SPECIFICATIONS

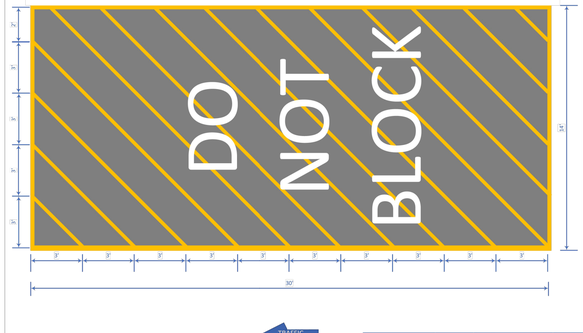
STOP Box letters heights 4', width 1.5'. Paint must be water based or acrylic and all lettering must be done in sans serif font (Highway Gothic recommended)
Reflective glass beads MUST be added to the paint



Client	Amazon TOM TIE	Page 13 of 20	Prepared by	Charles Mayaka	Date	2/17/2023
Process	ALPR STANDARD LAYOUT		Approved by	Seth Dorfman	Date	2/17/2023

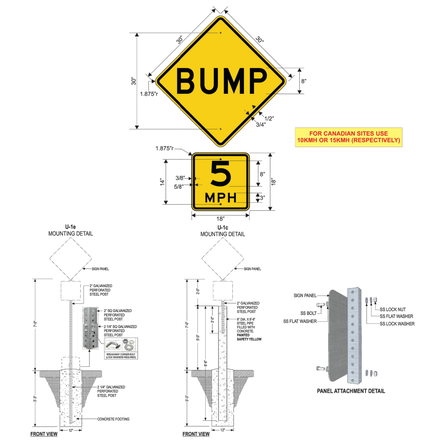
"DO NOT BLOCK" AND HASH MARKS SPECIFICATIONS

DO NOT BLOCK letter heights 4', width 1.5'. Paint must be water based or acrylic and all lettering must be done in sans serif font (Highway Gothic recommended)
Yellow hash markings to be done in 4 inch thick lines. Layout on how to prepare for this is on sheets 9 and 10.
Reflective glass beads MUST be added to the paint



Client	Amazon TOM TIE	Page 12 of 20	Prepared by	Charles Mayaka	Date	2/17/2023
Process	ALPR STANDARD LAYOUT		Approved by	Seth Dorfman	Date	2/17/2023

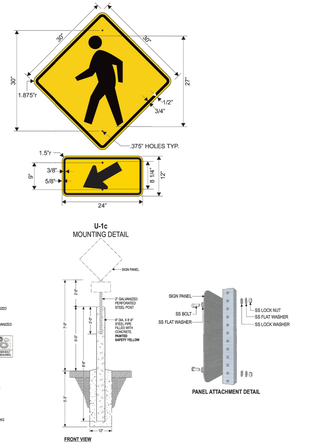
BU / Program / Type: ALL



INSTALLED BY CONSTRUCTION

Designation:	S-3(Mod)	Notes:	Colors:
Description:	Bump/Speed Limit 5mph Sign MUTCD W8-1 AND W13-1P	DOT standard SPEED BUMP sign, with 5 MPH sign supplemental placard. Use at speed bumps. Post and panel mount.Hardware	OPAQUE BLACK REFLECTIVE YELLOW
Substrate:	.080" Alum.		
Graphics:	Digitally printed graphics on high intensity reflective sheeting		

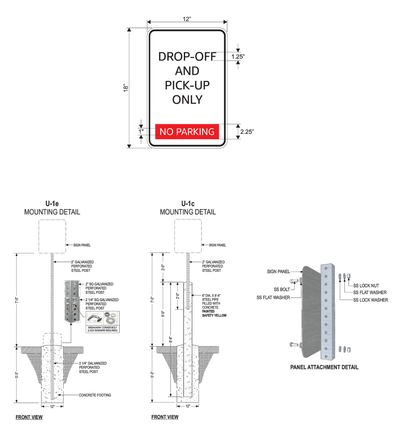
BU / Program / Type: ALL



INSTALLED BY CONSTRUCTION

Designation:	S-5(L)	Notes:	Colors:
Description:	Pedestrian Walking Sign / MUTCD W11-2 and W16-7pL	DOT standard PEDESTRIAN CROSSING sign with LEFT arrow. 30" x 30" sign with 12" x 24" placard DOT standard PEDESTRIAN CROSSING sign with arrow. Use at mid-block pedestrian crossings. Post and Panel mount.	OPAQUE BLACK REFLECTIVE YELLOW
Substrate:	.080" Alum.	**Designer's Note:** LED lights or Rectangular Rapid Flash Beacon may be added at high traffic intersections as determined by Civil Engineer / IIIHS This sign shall not be used at stop controlled intersections.	
Graphics:	Digitally printed graphics on high intensity reflective sheeting		

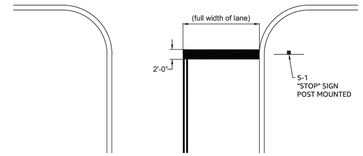
BU / Program / Type: ALL; Except SSD-FC



INSTALLED BY CONSTRUCTION

Designation:	AS-22	Notes:	Colors:
Description:	Standing Only - Pick-Up Drop-Off	**Panel :** 18" Alum. panel with high intensity reflective white sheeting. **Copy :** Direct print copy **Font :** Amazon Ember **Installation :** Mounted with (1) square galvanized steel post.	BLACK WHITE TRANS. SAFETY RED PMS 186 C
Substrate:	.080" Alum.		
Graphics:	Digitally printed graphics on high intensity reflective sheeting		

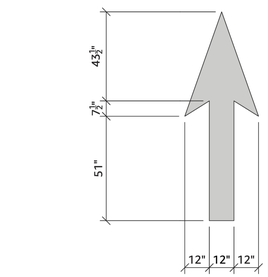
BU / Program / Type: All; Except AMZL; Exist. Bldg.; AVI, FSC



INSTALLED BY CONSTRUCTION

Designation:	PG-1	Notes:	Colors:
Description:	Parking Striping Graphics	Used at all STOP sign (S-1 or S-1b) locations. Stop and yield lines should be placed a minimum of 4' in advance of and parallel to the nearest crosswalk line at controlled intersections. In the absence of a marked crosswalk, the stop line should be placed at the desired stopping point, but should be placed no more than 30' nor less than 4' from the nearest edge of the intersecting traveled way. Stop lines should be placed to allow sufficient sight distance to all other approaches to an intersection. Guidance for STOP pavement graphic: MUTCD Section 3B.20 Pavement Word, Symbol, and Arrow Markings. (source: https://mutcd.fhwa.dot.gov/htm/2009/part3/part3b.htm#section3B20) Guidance: Letters and numerals should be 6 feet or more in height.	C1 WHITE
Substrate:	PAVEMENT		
Graphics:	Hot Applied Thermoplastic Graphic		

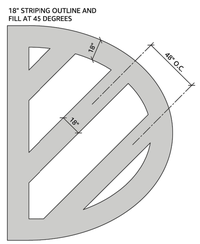
BU / Program / Type: All; Except AMZL; Exist. Bldg.; AVI, FSC



INSTALLED BY CONSTRUCTION

Designation:	PG-5	Notes:	Colors:
Description:	Parking Striping Graphics	Used to direct traffic at one-way drive aisles. Color shall be white on asphalt and yellow on concrete, unless otherwise noted.	C1 WHITE SAFETY YELLOW PMS 109 C
Substrate:	PAVEMENT		
Graphics:	Hot Applied Thermoplastic Graphic		

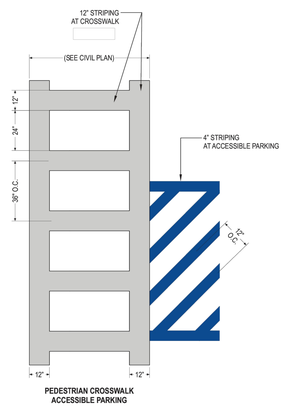
BU / Program / Type: All; Except AMZL; Exist. Bldg.; AVI, FSC



INSTALLED BY CONSTRUCTION

Designation:	PG-10	Notes:	Colors:
Description:	Parking Striping Graphics/prohibit vehicle travel and parking.	18" striping outline and fill at 45 degrees. Used to prohibit vehicle travel and parking. C3 yellow at NO TRAFFIC, C8 accessible blue at ACCESSIBLE PARKING, C1 white at VENDOR PARKING. Included at emergency exits into the parking lot at all parking spaces that impede direct access to the thoroughfare.	C1 WHITE SAFETY YELLOW PMS 109 C C8 BLUE
Substrate:	PAVEMENT		
Graphics:	Hot Applied Thermoplastic Graphic		

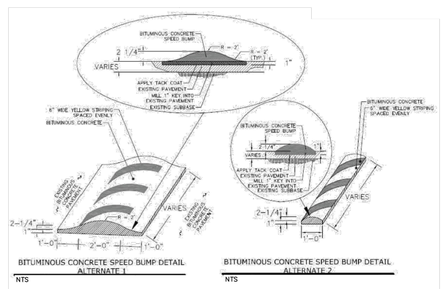
BU / Program / Type: All; Except AMZL; Exist. Bldg.; AVI, FSC



INSTALLED BY CONSTRUCTION

Designation:	PG-11	Notes:	Colors:
Description:	Parking Striping Graphics/Pedestrian crossing	Used to indicate pedestrian crossing. See Civil plan for width of crosswalk. Color shall be white on asphalt and yellow on concrete, unless otherwise noted.	C1 WHITE SAFETY YELLOW PMS 109 C BLUE PMS 293
Substrate:	PAVEMENT		
Graphics:	Hot Applied Thermoplastic Graphic		

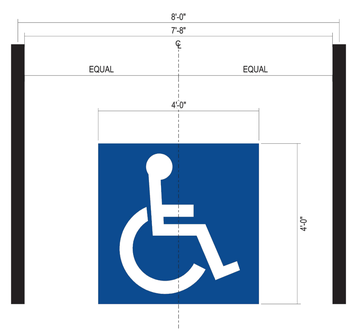
BU / Program / Type: All; Except AMZL; AVI, FSC



INSTALLED BY CONSTRUCTION

Designation:	PG-16	Notes:	Colors:
Description:	Pavement Graphics - Small Speed Bump	Use to control speed at interior drive aisles with 5 mph (10 kmph) speeds. Reflective yellow stripe. **Designer's Note:** All speed bumps shall be asphalt or concrete. Heavy duty rubber speed bumps are not permitted. The speed bump should be 2.25 to 2.5 inches high as measured from the road surface to the highest point on the speed bump and 1 foot wide (in the direction of travel) from the leading edge to the termination edge. The radius of curvature should be no more than 24 inches and no less than 36 inches. Speed bumps may be placed perpendicular or skew. Installation stripes oriented perpendicular or diagonal to the long axis of the bump to indicate it's presence and that there is a change in elevation. The stripes should be evenly spaced and a width ranging from 6 to 8 inches	SAFETY YELLOW PMS 109 C
Substrate:	PAVEMENT		
Graphics:	Hot Applied Thermoplastic Graphic		

BU / Program / Type: All; Except AMZL; AVI, FSC



INSTALLED BY CONSTRUCTION

Designation:	PG-17	Notes:	Colors:
Description:	Parking Striping Graphics	Used to indicate accessible parking spaces. 4'-0" x 4'-0" Use at all accessible parking spaces. White symbol with Accessible Blue background.	BLUE PMS 293 C1 WHITE
Substrate:	PAVEMENT		
Graphics:	Hot Applied Thermoplastic Graphic		

No.	REVISIONS	DATE	BY

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KHA PROJECT 168864455
DATE 7/18/2025
SCALE AS SHOWN
DESIGNED BY: MAG
DRAWN BY: MAG
CHECKED BY: JF

SIGNAGE & STRIPING DETAILS

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CREST HILL, IL 60435
WILL COUNTY IL

SHEET NUMBER
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CHURNOVIC LANE

EXISTING BUILDING

EXISTING BUILDING

LIDICE PKWY

EXISTING OFFSITE TREES TO REMAIN, TYP.

GRAPHIC SCALE IN FEET
0 20 40 80

NORTH

IMPERVIOUS SURFACE COVERAGE				
DESCRIPTION	TOTAL SQUARE FEET	IMPERVIOUS SQUARE FEET	PERVIOUS SQUARE FEET	% IMPERVIOUS
Project Site	1,160,264	988,173	172,091	85%

LANDSCAPE PLANTING ANALYSIS CHART		
LANDSCAPE AS-BUILT PLANS (DATED 06.19.17)	EXISTING LANDSCAPE	PROPOSED LANDSCAPE
TREES		
96 PROPOSED IN AS-BUILT LANDSCAPE PLANS	59 TREES EXIST ON SITE (FIELD WORK PERFORMED 05.22.25) 35 TREES TO BE REMOVED 59 - 35 = 24 EXISTING TREES TO REMAIN	**24 EXISTING TREES TO BE PROTECTED-IN-PLACE** **72 NEW TREES PROPOSED** **(96 TOTAL)**
CREST HILL CODE ORDINANCE 15.04.040		
CODE	**REQUIRED**	**PROPOSED**
THE APPLICANT SHALL PROVIDE ONE APPROVED PLANTING FOR EACH 725 SQFT OF GROSS LOT AREA	1 APPROVED PLANTING REQUIRED PER 725 SQFT OF IMPERVIOUS AREA 6,875 SQFT / 725 SQFT = 9.2 TREES REQUIRED	**10 ADDITIONAL TREE PROVIDED**

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL
TREES					
	AF	6	ACER RUBRUM 'FRANK JR.' / REDPOINTE® MAPLE	B & B	2.5" CAL. MIN.
	CI2	5	AMELANCHIER LAEVIS / ALLEGHENY SERVICEBERRY	B & B	6' HT. MIN.
	CO	12	CELTIS OCCIDENTALIS / COMMON HACKBERRY	B & B	2.5" CAL. MIN.
	CI	5	CRATAEGUS CRUS-GALLI INERMIS / THORNLESS COCKSPUR HAWTHORN	B & B	1.5" CAL. MIN.
	CO2	6	GINKGO BILOBA / GINKGO NON FRUIT BEARING	B & B	2.5" CAL. MIN.
	QA	8	QUERCUS ALBA / WHITE OAK	B & B	2.5" CAL. MIN.
	QR	9	QUERCUS RUBRA / NORTHERN RED OAK	B & B	2.5" CAL. MIN.
	UP	9	ULMUS AMERICANA 'PRINCETON' / PRINCETON AMERICAN ELM	B & B	2.5" CAL. MIN.
EVERGREEN TREES					
	JH	5	JUNIPERUS VIRGINIANA 'HILLSPIRE' / HILLSPIRE EASTERN REDCEDAR	B & B	6' HT. MIN.
	MG	6	METASEQUOIA GLYPTOSTROBOIDES / DAWN REDWOOD	B & B	6' HT. MIN.
	PA	8	PICEA ABIES / NORWAY SPRUCE	B & B	6' HT. MIN.
	PP	6	PICEA ABIES 'PENDULA' / WEEPING NORWAY SPRUCE	B & B	6' HT. MIN.
	PO	4	PICEA OMORIKA / SERBIAN SPRUCE	B & B	6' HT. MIN.
	PW	7	PINUS ALBA / WHITE PINE	B & B	6' HT. MIN.
	PD	10	PSEUDOTSUGA MENZIESII / DOUGLAS FIR	B & B	6' HT. MIN.

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME
GROUND COVERS			
	RC		1"-2" LOCALLY SOURCED ROCK COBBLE
	TX		TURF SEED / TURF SEED

LANDSCAPE KEYNOTES

1. PROPERTY LINE, TYP.
2. EXISTING TREE TO REMAIN, PROTECT IN PLACE, TYP.
3. EXISTING TREE TO BE REMOVED AND REPLACED, TYP.
4. FURNISH & INSTALL STONE MULCH WITH METAL EDGER, TYP.

NOTE:
1.) REFER TO AS-BUILT DRAWINGS ON SHEETS L3.0-L3.2
2.) REFER TO DEMOLITION PLANS FOR EXISTING TREE(S) PROPOSED TO BE REMOVED.
3.) CONTRACTOR TO TURF SEED ALL AREAS DISTURBED BY SHOWN IMPROVEMENTS.

Call Before You Dig
JULIE
1-800-892-0123

No.	REVISIONS	DATE	BY

Kimley»Horn
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PHONE: 630-487-5550
WWW.KIMLEY-HORN.COM

KHA PROJECT 168864455
DATE 7/16/2025
SCALE AS SHOWN
DESIGNED BY: MAG
DRAWN BY: MAG
CHECKED BY: JF

LANDSCAPE PLAN

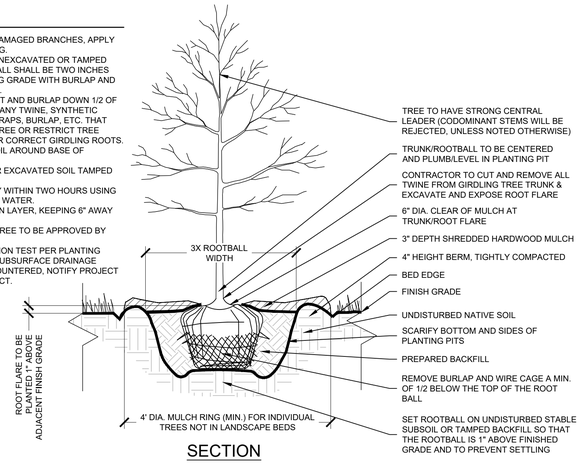
MDW5
16825 CHURNOVIC LANE
CREST HILL, IL 60435
WILL COUNTY IL

SHEET NUMBER
L1.0

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NOTES:

1. INSPECT TREE FOR DAMAGED BRANCHES, APPLY CORRECTIVE PRUNING.
2. SET ROOT BALL ON UNEXCAVATED OR TAMPED SOIL. TOP OF ROOTBALL SHALL BE TWO INCHES ABOVE SURROUNDING GRADE WITH BURLAP AND WIRE BASKET INTACT.
3. REMOVE WIRE BASKET AND BURLAP DOWN 1/2 OF ROOT BALL. REMOVE ANY TWINE, SYNTHETIC MATERIAL, WIRES, STRAPS, BURLAP, ETC. THAT COULD GIRDLE THE TREE OR RESTRICT TREE GROWTH. REMOVE OR CORRECT GIRDLING ROOTS.
4. TAMP EXCAVATED SOIL AROUND BASE OF ROOTBALL.
5. BACKFILL REMAINDER EXCAVATED SOIL TAMPED LIGHTLY.
6. WATER THOROUGHLY WITHIN TWO HOURS USING 10 TO 15 GALLONS OF WATER.
7. APPLY MULCH IN EVEN LAYER, KEEPING 6" AWAY FROM ROOT FLARE.
8. FINAL LOCATION OF TREE TO BE APPROVED BY OWNER.
9. PERFORM PERCOLATION TEST PER PLANTING SPECIFICATIONS. IF SUBSURFACE DRAINAGE PROBLEMS ARE ENCOUNTERED, NOTIFY PROJECT LANDSCAPE ARCHITECT.



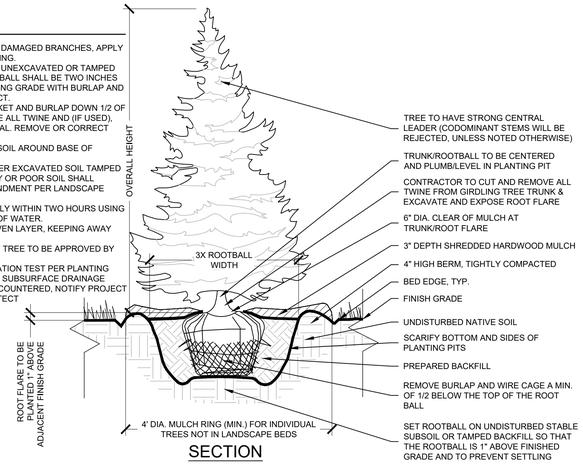
SECTION

1 TYPICAL TREE PLANTING

N.T.S.

NOTES:

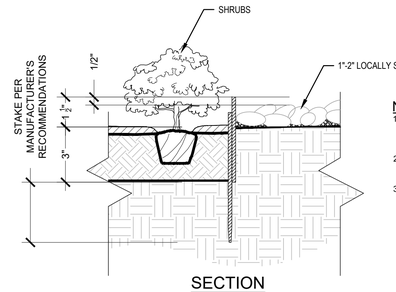
1. INSPECT TREE FOR DAMAGED BRANCHES, APPLY CORRECTIVE PRUNING.
2. SET ROOT BALL ON UNEXCAVATED OR TAMPED SOIL. TOP OF ROOTBALL SHALL BE TWO INCHES ABOVE SURROUNDING GRADE WITH BURLAP AND WIRE BASKET INTACT.
3. REMOVE WIRE BASKET AND BURLAP DOWN 1/2 OF ROOTBALL. REMOVE ALL TWINE AND (IF USED), SYNTHETIC MATERIAL. REMOVE OR CORRECT GIRDLING ROOTS.
4. TAMP EXCAVATED SOIL AROUND BASE OF ROOTBALL.
5. BACKFILL REMAINDER EXCAVATED SOIL TAMPED LIGHTLY. HIGH CLAY OR POOR SOIL SHALL RECEIVE SOIL AMENDMENT PER LANDSCAPE NOTES.
6. WATER THOROUGHLY WITHIN TWO HOURS USING 10 TO 15 GALLONS OF WATER.
7. APPLY MULCH IN EVEN LAYER, KEEPING AWAY FROM ROOT FLARE.
8. FINAL LOCATION OF TREE TO BE APPROVED BY OWNER.
9. PERFORM PERCOLATION TEST PER PLANTING SPECIFICATIONS. IF SUBSURFACE DRAINAGE PROBLEMS ARE ENCOUNTERED, NOTIFY PROJECT LANDSCAPE ARCHITECT



SECTION

2 EVERGREEN TREE PLANTING

N.T.S.



NOTES:

1. BED EDGE SHALL BE 5" BLACK COMMERCIAL ALUMINUM EDGING WITH 12" SPIKES AT 3' ON CENTER MAXIMUM
2. INSTALL EDGING ONLY IN AREAS TO SEPARATE SHRUBS FROM ROCK COBBLE.
3. WHERE EDGING TERMINATES AT PLANTER BED EDGES, BEVEL OR RECESS ENDS TO PREVENT TRIP HAZARDS.

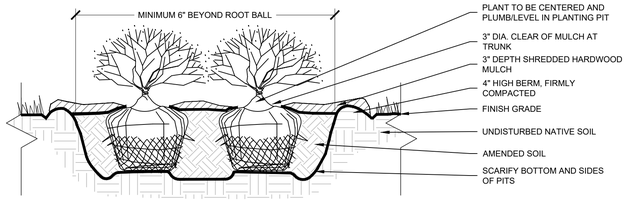
SECTION

3 METAL BED EDGING

N.T.S.

NOTES:

1. APPLY CORRECTIVE PRUNING.
2. SET ROOT BALL OR CONTAINER ON UNEXCAVATED OR TAMPED SOIL. TOP OF ROOTBALL (CONTAINER) SHALL BE ONE INCH ABOVE SURROUNDING GRADE. FOR LARGER SHRUBS WITHIN PLANTING BED DIG A DEEPER PIT ONLY FOR THOSE SHRUBS.
3. REMOVE BURLAP FROM TOP HALF THE LENGTH OF ROOTBALL. TWINE AND (IF USED) SYNTHETIC MATERIAL SHALL BE REMOVED FROM PLANTING BED. FOR CONTAINER GROWN SHRUBS, REMOVE CONTAINER AND LOOSEN ROOTS PRIOR TO INSTALLATION.
4. REMOVE OR CORRECT GIRDLING ROOTS.
5. PLUMB AND BACKFILL WITH AMENDED SOIL PER LANDSCAPE NOTES. WATER THOROUGHLY WITHIN TWO HOURS.
6. APPLY MULCH IN EVEN LAYER, KEEPING AWAY FROM ROOT FLARE. MULCH LIMITS FOR SHRUBS EXTEND TO ALL LIMITS OF PLANTING BED, SEE PLANS FOR BED LAYOUTS.



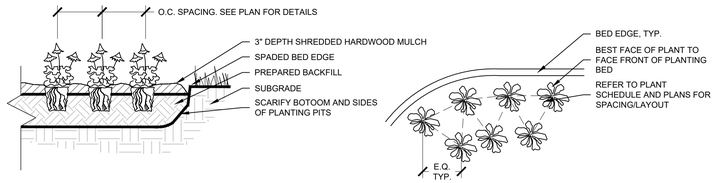
SECTION

4 SHRUB PLANTING

N.T.S.

NOTES:

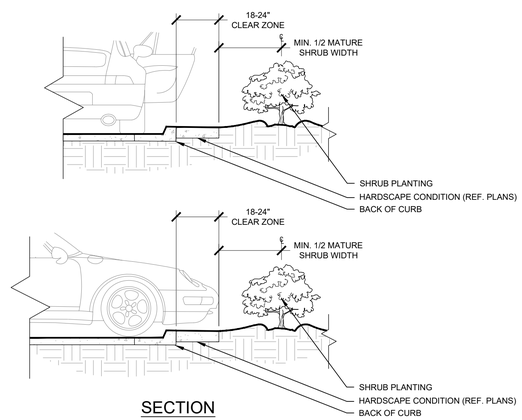
1. EXCAVATE PLANTING BED.
2. BED HEIGHT IS TO BE 2" ABOVE FINISH GRADE AND WELL DRAINED.
3. REMOVE CONTAINER. SCORE SOIL MASS TO REDIRECT AND PREVENT CIRCLING ROOTS. CORRECT GIRDLING ROOTS.
2. PLANT MATERIAL SHALL BE LAID OUT BY FOLLOWING THE BED EDGE, WORKING TOWARDS THE CENTER OF THE BED USING TRIANGULAR (STAGGERED) SPACING AS PLAUSIBLE.
3. PLUMB AND BACKFILL WITH PLANTING MIX AS SPECIFIED IN LANDSCAPE NOTES.
4. APPLY MULCH IN EVEN LAYER, KEEPING AWAY FROM ROOT FLARE. MULCH LIMITS FOR PERENNIALS/GROUNDCOVER EXTEND TO ALL LIMITS OF PLANTING BED, SEE PLANS FOR BED LAYOUTS.
5. SPACING TO BE AS SPECIFIED IN THE PLANT LIST OR AS SHOWN ON DRAWINGS. PERENNIALS SHALL BE PLACED WITH THEIR CENTER 24" FROM EDGE OF BED.



SECTION PLAN

5 PERENNIAL PLANTING

N.T.S.



SECTION

7 SHRUB PLANTING AT CURB

N.T.S.

LANDSCAPE NOTES

1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING MATERIALS AND PLANTS SHOWN ON THE LANDSCAPE PLAN. THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT LANDSCAPE, PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION OR DURING THE SPECIFIED MAINTENANCE PERIOD. CALL FOR UTILITY LOCATIONS PRIOR TO ANY EXCAVATION.
2. THE CONTRACTOR SHALL REPORT ANY DISCREPANCY IN PLAN VS. FIELD CONDITIONS IMMEDIATELY TO THE LANDSCAPE ARCHITECT, PRIOR TO CONTINUING WITH THAT PORTION OF WORK.
3. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS THAT SETTLE.
5. ALL PLANTS TO BE SPECIMEN GRADE, WELL BRANCHED, HEALTHY, FULL, PRE-INOCULATED AND FERTILIZED. PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, AND SCARS. PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES. PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES. TRUNKS WILL BE WRAPPED IF NECESSARY TO PREVENT SUN SCALD AND INSECT DAMAGE. THE LANDSCAPE CONTRACTOR SHALL REMOVE THE WRAP AT THE PROPER TIME AS PART OF THIS CONTRACT.
6. THE OWNER'S REPRESENTATIVE MAY REJECT ANY PLANT MATERIALS THAT ARE DISEASED, DEFORMED, OR OTHERWISE NOT EXHIBITING SUPERIOR QUALITY.
7. ALL NURSERY STOCK SHALL BE GUARANTEED, BY THE CONTRACTOR, FOR ONE YEAR FROM DATE OF FINAL INSPECTION. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNERS WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
8. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
9. PRUNE PLANTS AS NECESSARY- PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES.
10. TOPSOIL SHALL BE PROVIDED AND GRADED BY THE GENERAL CONTRACTOR UP TO 6 INCHES BELOW FINISHED GRADE IN TURF AREAS AND 18 INCHES IN PLANTING AREAS.
11. PLANTING AREA TOPSOIL SHALL BE TESTED AND AMENDED PER THE RECOMMENDATIONS OF THE AGRONOMICAL SOIL REPORT. CONTRACTOR SHALL OBTAIN AGRONOMICAL SOIL REPORT.
12. SEED/SOD LIMIT LINES ARE APPROXIMATE. CONTRACTOR SHALL SEED/SOD ALL AREAS WHICH ARE DISTURBED BY GRADING WITH THE SPECIFIED SEED/SOD MIXES.
13. EDGING TO BE A SPADED EDGE UNLESS INDICATED OTHERWISE ON THE PLANS. SPADED EDGE TO PROVIDE V-SHAPED DEPTH AND WIDTH TO CREATE SEPARATION BETWEEN MULCH AND GRASS. A SPADED BED EDGE SHALL SEPARATE MULCH BEDS FROM TURF OR SEEDED AREAS. A SPADED EDGE IS NOT REQUIRED ALONG CURBED EDGES.
14. CONTRACTOR SHALL INSTALL SHREDDED HARDWOOD MULCH AT A 3" DEPTH TO ALL TREES, SHRUB, PERENNIAL, AND GROUNDCOVER AREAS. TREES PLACED IN AREA COVERED BY TURF SHALL RECEIVE A 4 FT WIDE MAXIMUM TREE RING WITH 3" DEPTH SHREDDED HARDWOOD MULCH.
15. INSTALLATION OF TREES WITHIN PARKWAYS SHALL BE COORDINATED IN THE FIELD WITH LOCATIONS OF UNDERGROUND UTILITIES. TREES SHALL NOT BE LOCATED CLOSER THAN 5' FROM UNDERGROUND UTILITY LINES AND NO CLOSER THAN 10' FROM UTILITY STRUCTURES.
16. DO NOT DISTURB THE EXISTING PAVING, LIGHTING, OR LANDSCAPING THAT EXISTS ADJACENT TO THE SITE UNLESS OTHERWISE NOTED ON PLAN.
17. ALL DISTURBED AREAS TO BE SODDED OR SEEDED, UNLESS OTHERWISE NOTED. SOD/SEED SHALL BE LOCAL HARDY TURF GRASS MIX UNLESS, OTHERWISE NOTED.
18. PLANT QUANTITIES SHOWN ARE FOR THE CONVENIENCE OF THE OWNER AND JURISDICTIONAL REVIEW AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES AS DRAWN.
19. THE CONTINUED MAINTENANCE OF ALL REQUIRED LANDSCAPING SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY ON WHICH SAID MATERIALS ARE REQUIRED. ALL PLANT MATERIALS REQUIRED BY THIS SECTION SHALL BE MAINTAINED AS LIVING VEGETATION AND SHALL BE PROMPTLY REPLACED IF THE PLANT MATERIAL HAS DIED PRIOR TO FINAL ACCEPTANCE. PLANTING AREAS SHALL BE KEPT FREE OF TRASH, LITTER, AND WEEDS AT ALL TIMES.

No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT 168864455
DATE 7/18/2025
SCALE AS SHOWN
DESIGNED BY: MAG
DRAWN BY: MAG
CHECKED BY: JF

LANDSCAPE DETAILS

MDW5
16825 CHURNOVIC LANE
CREST HILL, IL 60435
WILL COUNTY IL

SHEET NUMBER
L2.0

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SECTION 02800
LANDSCAPE

Part 1.00 General

1.01 SCOPE OF WORK
- A. This section covers furnishing and installing all landscape plants and nonplant materials covered by the drawings and these specifications. The work shall include materials, labor, equipment and services as described herein and indicated on the drawings. Also, the work shall include the maintenance of all plants and planting areas until acceptance by the Owner, and the fulfillment of all guarantee provisions as herein specified.

1.02 PLANTING LAYOUT
- A. Before beginning work, the contractor shall investigate and verify, in the field, the existence and location of all underground utilities and irrigation piping, and take precautions to prevent their disturbance. It shall be the responsibility of the contractor to obtain all such information as it is made available. Plans and specifications of related work may be obtained from the owner.
- B. The contractor shall locate all general reference points, take precautions to prevent their disturbance, perform the layout work, be responsible for all lines, elevations and measurements of work executed under the contract, exercise proper precaution to verify figures on drawings before laying out work and be responsible for any error resulting from failure to exercise such precaution. The contractor shall make field measurements for his own work and be responsible for its accuracy.
- C. Discrepancies between conditions existing on the site and conditions indicated on the drawings shall be called to the attention of the owner before or at the time plant locations are staked out.
- D. In the event of a variation between the plant list and the actual number of plants shown on the plans, the plans shall control.

1.03 HORTICULTURAL STANDARDS
- A. Unless otherwise noted, plant material, including collected materials, shall be grade No. 1 or better as outlined under Grades and Standards for Nursery Plants, and shall also conform to American Standard for Nursery Stock, ANSI (American National Standards Institute, Inc.) Z60.1—1996 as approved by the American Association of Nurserymen.
- B. All plant names shall conform to the names given in Standardized Plant Names, 1942 Edition, prepared by the American Joint Committee on Horticultural Nomenclature. Names of varieties not included therein shall conform generally with names accepted in the nursery trade. All plant materials shall be true to botanical, common and variety names. Botanical name shall have precedence over common name.
- C. The landscape architect shall have the right, at any stage of the operations, to reject any and all work and materials which, in his opinion, do not meet with the requirements of these specifications. Such rejected material shall be removed from the site and acceptable material substituted in its place.

1.04 CERTIFICATES OF INSPECTION
- A. All plant material shall be inspected by the Department of Agriculture, as required by state law. Plants of a grade less than that specified in the article titled HORTICULTURE STANDARDS will not be accepted.

Part 2.00 Non-Plant Materials

2.01 SOIL BACKFILL
- A. Soil for backfilling planting areas and plant pits shall be the existing surface soil, free from subsoil, objectionable weeds, litter, sods, stiff clay, stones, stumps, roots, trash, toxic substances, mortar, cement or any other material which may be harmful to plant growth or hinder planting operations. Poorly drained soil shall not be used.
- B. The contractor shall obtain current agronomic soils report and include soil amendment recommendations on these plans. Soil shall be amended to provide 3%–6% percent organic matter.
- C. Soil amendments shall be added to the soil in the amount and manner prescribed by soil analysis to obtain a pH of 6.0 to 7.0. Results from soil analysis and a list of the prescribed amendments shall be presented to the owner and verified by the landscape architect prior to being incorporated into the soil.
- D. If additional soil is required; it shall be furnished by the contractor and shall be a natural, friable soil representative of productive, well-drained soils in the vicinity. It shall be obtained from well drained areas which have never been stripped before ±and shall be free of admixture of subsoil and foreign matter, stones, toxic substances and any material or substance that may be harmful to plant growth.
- E. The contractor shall provide the following information on imported topsoil:
  1. Specific location from which topsoil will be (or was) stripped.
  2. Present owner of that property.
  3. Approximate amount of topsoil available.
  4. Test results showing topsoil composition and analysis.
- F. Soil test shall be performed by a qualified soils laboratory, in accordance with "Methods of Soils Analysis — Agronomy 9" as published by the American Society of Agronomy and shall be performed at the Contractor's expenses.
- G. Planting soil backfill for raised architectural planters, if applicable, shall consist of 40% potting soil, 40% coarse washed builders sand and 20% horticultural perlite.
- H. Areas designated to be planted with flowering annuals, if applicable, shall be excavated to a depth of 18" and backfilled with a mixture consisting of 40% peat, 40% D.O.T. (coarse) sand, 10% pine bark (decomposed) and 10% cypress chips.
- I. Planting soil backfill for tree wells, if applicable, shall be approved topsoil.
- J. Planting area topsoil, if applicable, shall be 25% sphagnum peatmoss, 5% humus, and 70% pulverized soil for all non turf seed mix areas, shrub, ornamental grass, perennial, and annual beds.

2.02 FERTILIZER
- A. Commercial fertilizer shall be 14—14—14 formulation of Osmocote brand, 3—4 month release of which 60% of the nitrogen is in urea—formaldehyde form and shall conform to the applicable state fertilizer laws. Fertilizer shall be uniform in composition, dry and free flowing.

2.03 PRE—EMERGENCE WEED CONTROL
- A. Weed control shall be Ronstar 2G as manufactured by Rhodia, Inc., Monmouth Junction, New Jersey 08852 or Princap (Simazine) as manufactured by Gelgy Agricultural Chemicals, Ardsley, New York 10502, or an approved equal.

2.04 WATER
- A. Water will be available for use on site during the landscape installation at no cost to the contractor. Care shall be exercised to assure that water is kept free of harmful chemicals, acids, alkalis, or any substance, which might be harmful to plant growth.

2.05 ANTIDESICCANT
- A. Antidesiccant shall be an emulsion type; film—forming agent designed to permit transpiration, but retard excessive loss of moisture from plants, such as Dowax by Dow Chemical Co., or Wilt—Pruf by Nursery Specialty Products, Inc., or an acceptable equal. The antidesiccant shall be delivered in the manufacturer's fully identified containers and shall be mixed in accordance with manufacturer's instructions.

2.06 BORICIDE
- A. Boricide shall be Lindane as manufactured by Platt, or an approved equal.

2.07 MULCH
- A. Wood Mulch shall be shredded hardwood mulch at 3" in. depth. Furnish and install mulch to all trees, shrubs, perennial, and groundcover areas. Trees placed in area covered by turf shall receive a 4' wide tree ring with 3" depth shredded hardwood mulch. Submit a mulch sample to owner and landscape architect for review and approval.

2.08 GUYING AND STAKING MATERIAL
- A. Stakes for supporting trees shall be as detailed on the drawings or as necessary. Wire for fastening trees to duckbill and turnbuckle shall be galvanized aircraft grade guying cable as specified in the detail. Wires in contact with trees shall be encased in two—ply reinforced garden hose. Material for wrapping tree trunks shall be burlap, heavy crepe paper, or other acceptable material in strips 6 to 10 inches wide.

2.09 DRAINAGE GRAVEL
- A. Where indicated on the drawings, or where soil conditions deem it necessary, the contractor shall install gravel subdrains beneath trees and/or planting areas to aid in soil drainage and percolation. The subdrain shall be constructed as detailed on the drawings, or as directed by the landscape architect. Drainage gravel shall consist of washed, clean gravel 3/4 inch to 2 inches in size.

2.10 SOIL SEPARATION MATS
- A. Soil separation mats, if indicated on the drawings, shall be Bidim (gray felt) as manufactured by Monsanto Co., 800 North Lindbergh Road, St. Louis, MO 63166 or approved equal. Mats shall be installed as indicated on the drawings, and edges overlapped a minimum of 4 inches. Care shall be taken to prevent tearing or excessive crushing during the installation process.

Part 3.00 Plant Material

3.01 QUALITY OF PLANT MATERIAL
- A. During inspection, as set forth hereinafter, all plant material will be judged, and rejections shall be based upon these standards. All plants shall comply with federal and state law requiring inspection for plant diseases and infestations. Inspection certificates required by law shall be made available to the owner or owner's representative at his/her request.
- B. In determining the quality of plant material, the following elements will be valued:
  1. Root condition.
  2. Plant size (above ground).
  3. Insect and disease free condition.
  4. General appearance (color, shape, pruning).

  A deficiency in one or more of these areas will be sufficient reason to reject selectively or by lot.
- C. The landscape architect shall have the right, at any stage of the operations, to reject any and all work and materials which, in his opinion, do not meet with the requirements of these specifications. Such rejected material shall be removed from the site and acceptable material substituted in its place.

3.02 SIZE AND MEASUREMENTS
- A. Plants shall be measured when branches are in their normal position. Heights and spread dimensions specified refer to the main body of the plant and not to extreme branch tip to tip. The measurements specified are the minimum size acceptable and where pruning is required, these are measurements after pruning. When sizes are indicated as a range, the plant shall have the proper proportion as outlined in Department of Agriculture, Grades and Standards for Nursery Plants Part 1 and 11. Caliper of trees shall be taken 6 inches above the ground level and shall be the determining measurement for nursery trees. Diameter at breast height (DBH) shall be taken 4.5' above the ground level and shall be the determining measurement for established trees.
- B. Plants, which have been headed back to conform to the size specified, will not be acceptable. Plants larger than specified may be used if approved by the owner; however, the use of such plants shall not increase the contract price.

3.03 LABEL
- A. Plant materials shall have durable, legible labels stating, in weather resistant ink, the correct botanical and common names and size as indicated in the Plant List. Each plant, or sufficient representative samples of each delivered shipment, shall have labels securely attached in a fashion that will not interfere with normal plant growth. Plant materials which have (or will have) a seasonal bloom shall be tagged with labels indicating the specific variety of that species' botanical and common name.

3.04 COLLECTED PLANTS
- A. All plant material shall be nursery grown. Collected plants shall have been grown under climatic conditions similar to those in the locality of the project. All collected plants shall meet the requirements as specified and shall meet all specified grades and standards, unless otherwise qualified in the Plant List or these specifications. Root balls shall be increased in size one third greater than nursery grown plants.

3.05 CONTAINERIZED PLANTS
- A. All container grown plants shall be well rooted and established in the container in which they are delivered to the site. The plants shall have been in that container sufficiently long for the fibrous roots to hold the soil together when the plant is removed from the container. Container grown plants found to be root—bound at the time of planting will not be acceptable. Containerized trees have a tendency to dry out quickly. The contractor shall be responsible for hand watering the trees at time of delivery through the time of final acceptance at a rate consistent with the nursery watering schedule to assure that the tree does not go into shock.

3.06 SPECIMEN PLANTS
- A. After receiving the Notice to Proceed, the contractor shall locate all plants specified as specimen. The contractor shall notify the owner so they may agree on a time to mutually inspect the selected plants. The owner will inspect and tag those plants, which are acceptable for use. Expenses incurred by the owner for any subsequent inspection of specimen plants, at any time, in addition to the mutually agreed time shall be the responsibility of the contractor.

3.07 SUBSTITUTIONS
- A. The use of materials differing in kind, quality or size from those specified will be allowed only after the owner is convinced that all means of obtaining the specified materials have been exhausted.
- B. Where it is indicated that the contractor may furnish or use a substitute that is equal to the material or equipment specified and if the contractor is to furnish or use a proposed substitute, he shall, after the award of the contract, make written application to the owner for acceptance of such a substitute. The substituted product or method shall be equal or superior in all respects to the specified product or method, shall perform adequately the duties imposed by the general design, shall be compatible with all other elements of the job, and shall be sufficient to complete the job. The substitution shall not add cost to the contract. Should it be necessary to accept a substitute of a quality less than specified, the unit price shall be used to adjust the contract price downward accordingly. No substitution shall be ordered or installed without the written permission of the owner and governing municipality.

Part 4.00 Delivery, Storage and Handling

4.01 PLANT MATERIAL
- A. The contractor shall exercise care in handling, loading and unloading, storage and transporting all plant material and allied materials to prevent damage. The contractor shall assume full responsibility for protection and safekeeping of products stored on the job.
- B. The contractor shall dig and prepare plant material for shipment in a manner that will not damage roots, branches, shape and future development after planting.
- C. Trees indicated on the plans where size, soil conditions and distance of transport to the site would warrant, shall be wireballed. Bottom wired baskets manufactured specifically for use in tree handling may be used.
- D. The contractor shall handle all plants so that roots and branches are protected at all times from drying out, heating and from other injury. All plants shall be handled by the ball or container.
- E. Before moving plants from the nursery or storage area to the site; they shall be thoroughly sprayed with a solution of antidesiccant. Antidesiccant shall be applied to all collected pines and oaks. Two weeks after planting or as specified by the product manufacturer; the material shall be sprayed again with the antidesiccant. The antidesiccant shall be applied using power spray to provide an adequate film over trunks, branches, stems, twigs and foliage.
- F. When transporting plants to and at the site, the contractor shall make provisions to protect plants from wind damage by avoiding high—speed highways, transporting in enclosed or partially enclosed vehicles, or covering the plants with burlap or other suitable material. Plants severely damaged by wind will be rejected.
- G. Any plant with signs of insects, their eggs or larvae or disease will be rejected and shall be removed from the project site.
- H. Only the nursery stock intended for planting on a particular day shall be delivered and stored on the site during the day unless otherwise acceptable to the owner. All plants shall be stored in one location as designated by the owner, protected from wind and kept moist. The roots of all plants that cannot be planted immediately in soil shall be covered with mulch and other suitable material. No plants shall be taken from the temporary storage area for planting on the project until after the tree pits or holes for the plants in the section to be planted have been properly excavated and prepared ready to receive the trees and shrubs.
- I. Trees moved by winch or crane shall be thoroughly protected from chain marks, girdling or other bark slippage by means of burlap, wood battens or other acceptable method.

4.02 NONPLANT MATERIAL
- A. Fertilizer shall be delivered to the site in original, unopened containers bearing manufacturer's guaranteed chemical analysis, name, trade name, trademark and conformance to state law. In lieu of containers and provided that it is to be applied at the time of delivery, fertilizer may be furnished in bulk and a certificate indicating the above information shall accompany each delivery.
- B. Pesticide and herbicide materials shall be delivered to the site in the original, unopened containers. Containers that do not have a legible label that identifies the Environmental Protection Agency registration number and the manufacturer's registered uses will be rejected.
- C. Storage of materials shall be in the area designated for use by the owner. All materials shall be kept in dry storage and away from contaminants.

Part 5.00 Installation

5.01 PREPARATION BEFORE PLANTING
- A. The contractor shall verify that all final grades have been established prior to beginning planting operations. All unsatisfactory grading shall be reported to the owner, and the contractor shall not proceed with this work until the unsatisfactory conditions have been corrected. When conditions detrimental to plant growth are encountered, such as rubble, fill or adverse drainage conditions, the contractor shall notify the owner for directions.
- B. Should undesirable existing vegetation be present on the site at the time of installation, the contractor shall prepare the site for planting by use of chemicals, when used as recommended by the manufacturer, and/or mechanical means acceptable to the owner. Care shall be exercised to avoid any misuse of chemicals, which would create detrimental residual conditions. Care must also be used not to alter final grades, which have been established or cause damage to previously established turf areas.

5.02 SITE PREPARATION
- A. If so called for by the owner, all plant locations and the areas of all planting beds shall be staked out on the ground, for acceptance by the owner, before planting operations begin. The contractor shall stake the location of the center of each tree and paint the outline of each shrub and groundcover bed. The stakes shall be oriented in a vertical manner so that they can be viewed and read from one direction. The contractor shall give the owner notice 24 hours prior to the completion staking described herein.
- B. The contractor shall verify the location of underground utilities, and irrigation heads and valves, and provide markers or other suitable protection, where necessary, to prevent damage.

5.03 EXCAVATION OF PLANTING AREAS
- A. No tree or shrub pit shall be dug or prepared until their location is acceptable to the owner. Reasonable care shall be exercised to have pits dug and prepared prior to moving plants to respective locations for planting to ensure that they will not be unnecessarily exposed to drying elements or to physical damage.
- B. Circular pits with vertical sides shall be excavated for all plants. The depth of all plant pits shall be enough to accommodate the ball or roots and the prepared soil in the bottom of the pit. Diameter of pits for trees shall be at least 1 foot greater than the diameter of the ball.
- C. Plant beds and pits shall be tested for proper drainage by filling with water twice successively. Conditions permitting the retention of more than 6 inches of water in 1 hour shall be brought to the attention of the owner. A written proposal and cost estimate for correction of such conditions shall be submitted to the owner for acceptance, before proceeding with the work.
- D. All tree pits curbed planting islands, tree wells, or in areas, in which the soil has been compacted to an undesirable density, shall be excavated to a depth at least two feet greater than the measured depth and diameter of the ball. The minimum depth and diameter of excavation shall be four feet.
- E. In shrub and groundcover beds where soils have been compacted to a density, which is detrimental to plant growth, the contractor shall loosen soils to a depth of 18" minimum to allow root penetration beyond the planting pit.
- F. If acceptable for use, existing topsoil in shrub and groundcover beds shall be treated with the specified soil amendments, at rates determined by soil tests. Amendments shall be incorporated into the soil to a depth of 12 inches. Where soil is not acceptable as determined by soil tests, the soil in the entire area shall be removed to a depth of a min. 12 inches and replaced with the specified planting soil.

5.04 PLANTING
- A. All plants, except as otherwise specified, shall be centered in their pits, faced for best effect and set plumb for backfilling.
- B. All synthetic strings, straps, and wire cages shall be removed from the top of third of the root ball. Synthetic burlap shall be removed completely.
- C. Plants shall be removed from cans by cutting two sides of a container with an acceptable can cutter. Sides shall not be cut with a spade. Sides of knockout cans shall not be cut. Plastic containers with slanted sides shall not require cutting. Plants shall be removed from the container carefully, without injury or damage to the plant and root system.
- D. The contractor shall hand water—containerized trees from the time of delivery until the time of the final acceptance at a rate consistent with the nursery conditions from which the trees were obtained. Trees, which go into shock due to insufficient water, may be rejected.
- E. Plants shall be set in the center of the pits and shall be plumb and straight and at such a level that after settlement the root crown will be level with the surrounding grade.
- F. Plant holes shall be backfilled with the specified planting mixture placed in layers around the roots or ball. Each layer shall be carefully tamped in place in manner to avoid injury to the roots or ball or disturbing the position of the plant. When approximately two thirds of the plant hole has been backfilled, the hole shall be filled with water and the soil allowed to settle around the roots. Balled and burlapped plants shall have the burlap cut away or folded back from the top of the ball before applying water. After the water has been absorbed, the plant hole shall be filled and tamped lightly to grade. Any subsequent settlement shall be brought to grade.
- G. Immediately after each tree pit is backfilled, a shallow basin slightly larger than the pit shall be formed with a ridge of topsoil to facilitate watering. This soil saucer shall be formed in a circle and tamped around each tree so that the saucer will retain water. Where curbing occurs around plant pits, the saucer shall be omitted.

5.05 FERTILIZING
- A. Each tree and shrub shall be fertilized by placing the manufacturer's recommended amount around the base of the ball before backfilling.

5.06 STAKING, GUYING AND WRAPPING
- A. Staking or guying and wrapping of trees shall be done immediately after they are planted, as necessary. Each plant shall stand plumb after staking or guying has been completed. It shall be the Contractor's responsibility to ensure that all trees are plumb and secure after planting. Staking of trees of a 10 foot height or less shall be at the discretion of the Owner. All other trees shall be staked.

5.07 MULCHING
- A. Immediately after planting operations are completed, all tree and shrub saucers, and shrub and groundcover beds shall be covered with a 3 inch layer of shredded hardwood mulch. 3 Inch depth shall be provided throughout all landscape beds as shown annotated in the drawings.

5.08 PRUNING
- A. Each tree and shrub shall be pruned in accordance with standard horticultural practice to preserve the natural character of the plant and in the manner fitting its use in the landscape design. Pruning shall be done with clean, sharp tools and as indicated on the drawings.
- B. Approximately one third of the growth of large deciduous trees (those with 2 inch caliper or larger) shall be pruned by removal of superfluous branches. Main leaders of trees shall not be cut back. Branches shall be thinned out and not merely cut back. Long side branches may be shortened. Shrubbery with extremely heavy tops shall have one fourth to one third of the weaker growth removed by thinning.

5.09 CLEANUP
- A. During the course of planting, excess and waste materials shall be continuously and promptly removed daily, lawns kept clear, and all reasonable precautions taken to avoid damage to existing structures, plants and grass. After completion of the work, the entire site shall be cleared of excess soils, waste material, debris and all objects that may hinder maintenance and affect the visual appearance of the site.

  The Contractor shall clean all roads and walks of dirt film and soil clods. The Contractor shall also pressure clean and broom sweep all asphalt pavement prior to the final lift of asphalt to be laid.

5.10 DISTURBED AREAS
- A. All areas outside of the limits of work that are disturbed by the Contractor's construction activities shall be repaired and replanted to its original condition.

Part 6.00 Guarantees

6.01 GUARANTEED PROVING PERIOD
- A. There shall be a guarantee period of 1 year for trees and specimen material and 1 year for shrubs. This guarantee period shall start at the final acceptance date. Contractor shall replace any and all plant material, which die during this guarantee proving period. Replacement of plants necessary during the guarantee period shall be the responsibility of the Contractor, except for possible replacements of plants resulting from removal, vandalism, acts of neglect on the part of others, or acts of God. All replacement material shall have the same guarantee time (1 year from installation of replacement for trees and specimen material and 1 year for shrubs).
- B. Planting maintenance shall include all necessary watering, cultivation, weeding, pruning and spraying, wrapping and mulching, straightening of plants which lean or sag and which develop more than a normal amount of settlement such adjustments to include excavating around and leveling or raising the ball when so directed and all other incidental work necessary for proper maintenance as directed by the Owner until substantial completion and written release.
- C. Transplanted material (if applicable) shall not be guaranteed, however, good horticultural practices should be used before, during and after the material is transplanted. Good horticultural practices should include but not be limited to, all necessary watering, pruning and spraying, wrapping and mulching, fertilizing, moving, maintaining the same orientation and grade level from the original location, and all other incidental work necessary for proper transplanting.

6.02 FINAL INSPECTION AND ACCEPTANCE
- A. The Contractor shall notify the Owner in writing when the work has been completed in accordance with this Contract and request an inspection. The Owner will make the inspection of the work and report findings as to acceptability and completeness. Any work remaining to be done shall be subject to reinspection before final acceptance. The Contractor will be notified in writing by the Owner of the final acceptance of the work.

6.03 CONTRACTOR'S RESPONSIBILITY AFTER ACCEPTANCE
- A. The Owner may elect to assume maintenance of all work, at the time of acceptance, or may elect to contract for maintenance by others for a specified period. Should maintenance after final acceptance be the responsibility of those other than the Contractor, the Contractor shall monitor all work for which he is responsible by guarantee, to assure that maintenance being performed will not jeopardize the condition and quality of the work and materials guaranteed by the Contractor. Any inadequate or damaging maintenance practices shall be reported immediately in writing to the Owner so that appropriate measures may be taken to correct the condition. Failure to so notify the Owner will invalidate any later claim of negligence or malpractice in maintenance.

6.04 ACCEPTANCE AND REPLACEMENT OF PLANT MATERIAL
- A. At the expiration of the proving period, an inspection of the plantings will be made by the Owner. Only those plants that are alive and normally healthy will be accepted. Unaccepted material shall be removed and replaced by the Contractor at his own expense, during the next planting season. Material and method of replacement planting shall be the same as specified for the original planting unless otherwise directed. The Contractor shall continue to make replacements until a plant shows vigorous and healthy growth for a period of 1 year from the date of acceptance by the Owner. All such replacements will be inspected for acceptance at the end of the proving period by the Owner.

6.05 REQUIRED MAINTENANCE
- A. Landscape contractor shall be responsible for the maintenance and upkeep for 90 days past the final inspection. At that point contact the general manager and determine if the landscape contractor will remain on. If yes, contractor will be responsible for the maintenance and warrantee of all landscaping for one full year. If no, the landscape contractor is to walk the site with the general manager, manager, the facilities manager and the new landscaper and they shall agree that all planting is in good shape prior to the new landscaper taking over.

END OF SECTION

No.	REVISIONS	DATE	BY

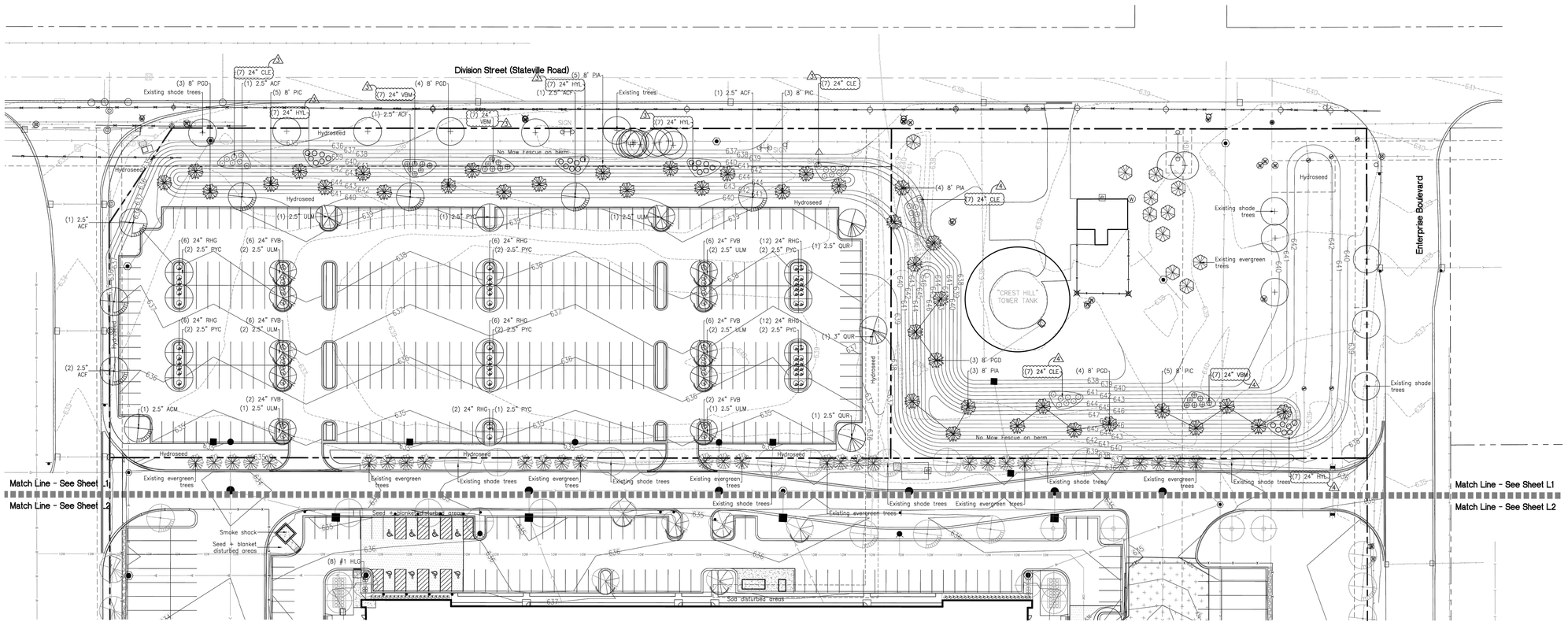
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KHA PROJECT 168864455
DATE 7/18/2025
SCALE AS SHOWN
DESIGNED BY: MAG
DRAWN BY: MAG
CHECKED BY: JF

LANDSCAPE SPECIFICATIONS

MDW5
16825 CHURNOVIC LANE
CREST HILL, IL 60435
WILL COUNTY IL

SHEET NUMBER
L2.1



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Plant List

*Shade Trees

Key	Qty.	Size	Botanical Name	Common Name	Remarks
ACF	8	2.5"	Acer x freemanii 'Autumn Blaze'	Autumn Blaze Freeman Maple	BB
ARM	4	2.5"	Acer rubrum 'Armstrong'	Armstrong Red Maple	BB
GIB	0	2.5"	Ginkgo biloba	Ginkgo	BB
OST	0	2.5"	Ostrya virginiana	Ironwood/American Hophornbeam	BB
PYC	14	2.5"	Pyrus calleryana 'Chanticleer	Chanticleer	BB
QUR	3	3"	Quercus rubra	Red Oak	BB
ULM	12	2.5"	Ulmus x 'Morton Glossy'	Triumph Elm	BB

Evergreen Trees

Key	Qty.	Size	Botanical Name	Common Name	Remarks
PGD	14	8'	Picea glauca 'Densata'	Black Hills Spruce	BB
PIA	12	8'	Picea abies	Norway Spruce	BB
PIC	13	8'	Picea pungens	Colorado Green Spruce	BB

Shrubs

Key	Qty.	Size	Botanical Name	Common Name	Remarks
FVB	28	24"	Forsythia viridissima 'Bronxensis'	Bronx Dwarf Forsythia	BB
CLE	28	24"	Clethra alnifolia 'Hummingbird'	Hummingbird Summersweet	BB
HYL	28	24"	Hydrangea paniculata 'Limelight'	Limelight Hydrangea	BB
RHG	30	24"	Rhus aromatica 'Gro-Low	Gro-Low Fragrant Sumac	BB
TMD	6	24"	Taxus x media 'Densiformis'	Dense Yew	BB
VBM	21	24"	Viburnum dentatum 'Christom'	Blue Muffin Arrowwood Viburnum	BB

Perennials

Key	Qty.	Size	Botanical Name	Common Name	Remarks
ALL	36	#1	Allium 'Summer Beauty'	Summer Beauty Allium	Container
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*Note: Shade trees shall not be less than 6' in height per City of Crest Hill City Code.

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2	For Review	06.28.17	
1	For Review	06.09.17	
Mark	Description	Date	

Issuance

Number
467317

Scale
1" = 40'

North

File
4673FP6A

Sheet
L1

Landscape Plan
As-Built

KHA PROJECT
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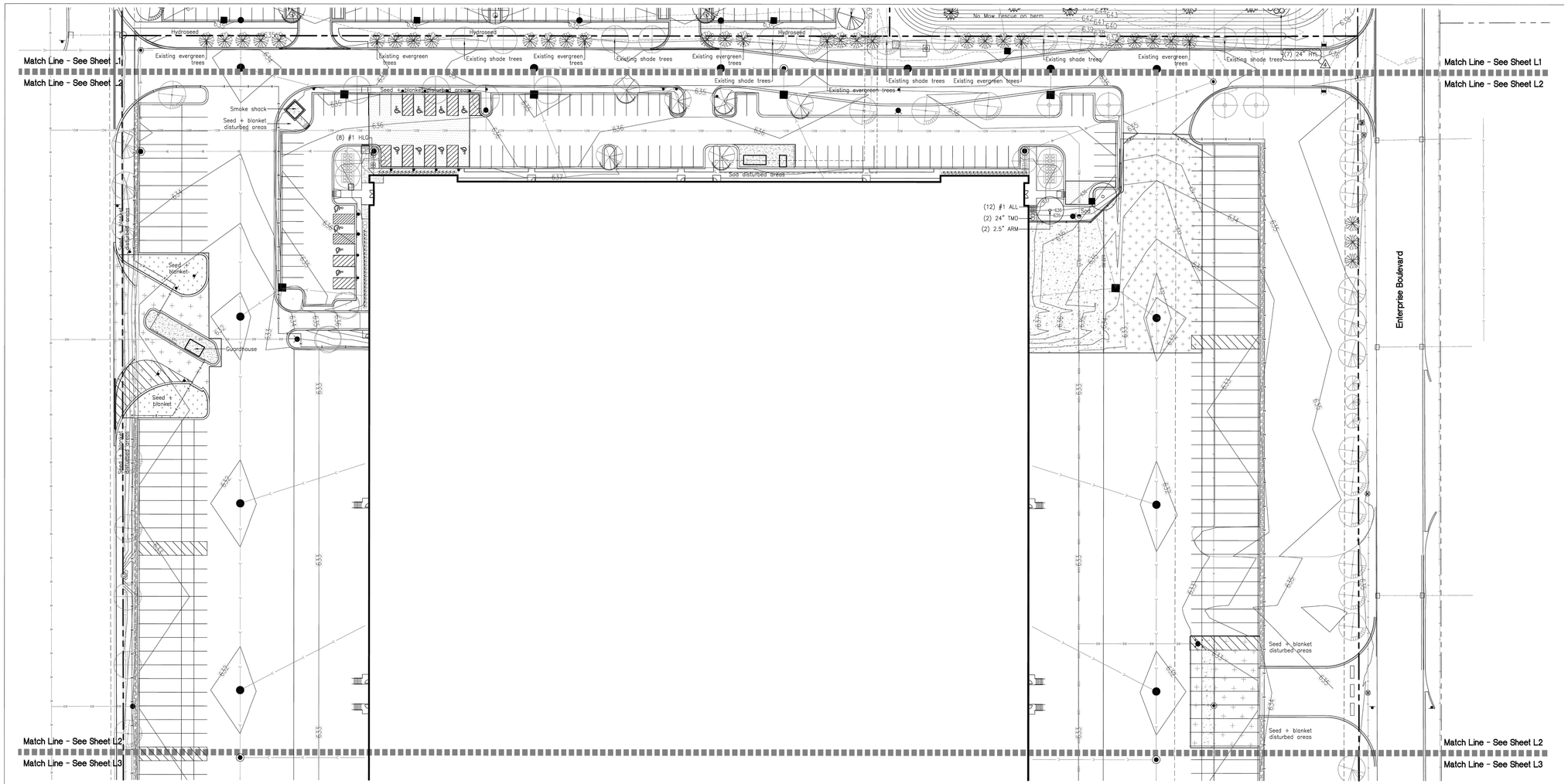
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4 A1 A2 A3	CAS	28	24"	Clethra alnifolia 'Hummingbird'	Hummingbird Summersweet	BB
4 A1 A2 A3	HYL	28	24"	Hydrangea paniculata 'Limelight'	Limelight Hydrangea	BB
	RAG	30	24"	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	BB
4 A1 A2 A3	TMD	6	24"	Taxus x media 'Densiformis'	Dense Yew	BB
4 A1 A2 A3	VBM	21	24"	Viburnum dentatum 'Christom	Blue Muffin Arrowwood Viburnum	BB

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*Note: Shade trees shall not be less than 6' in height per City of Crest Hill City Code.

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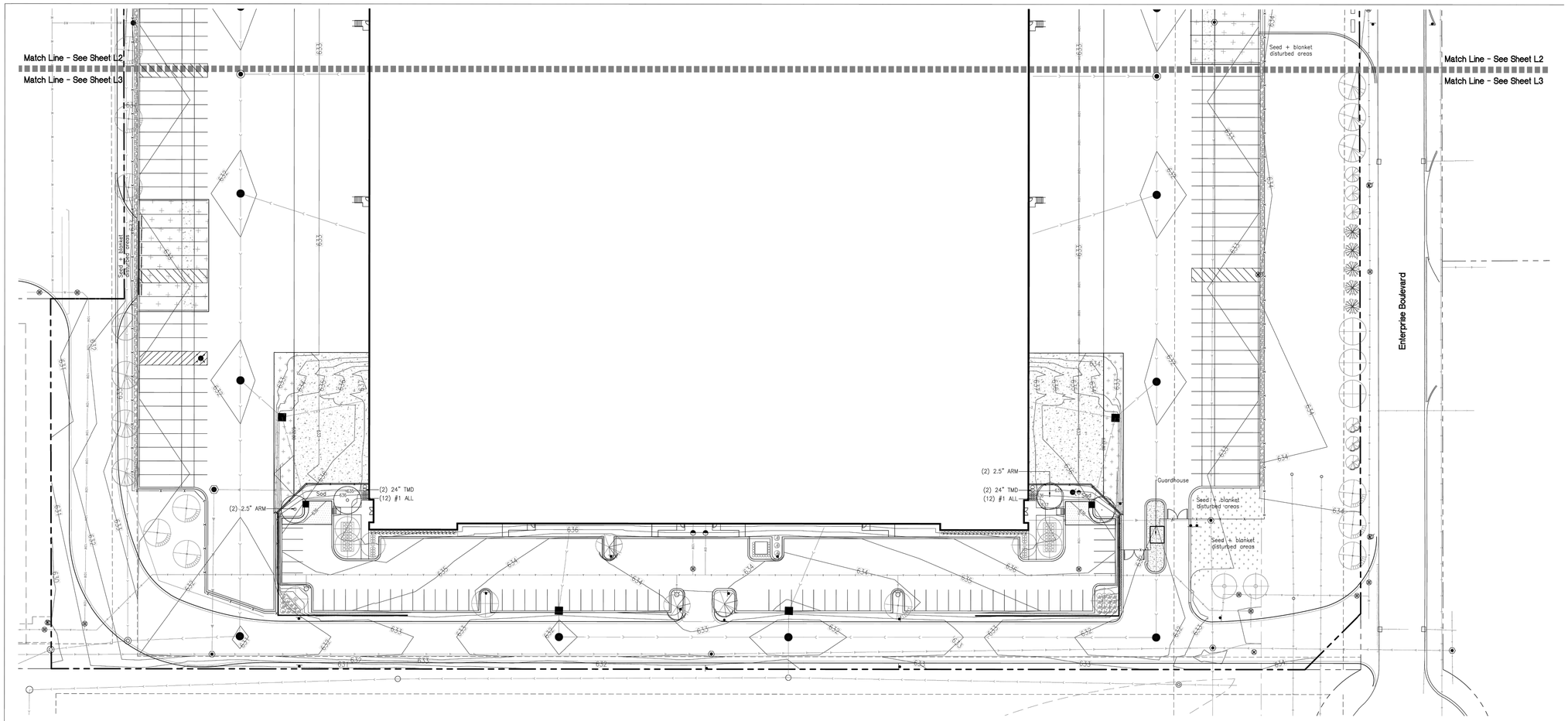
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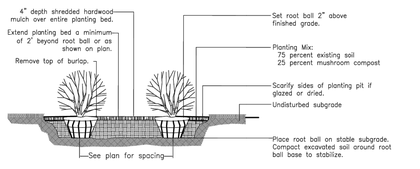
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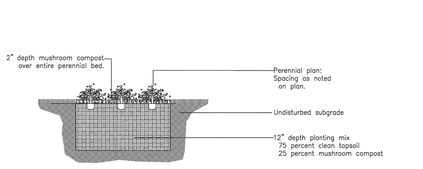
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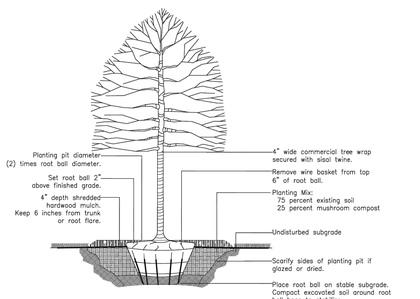




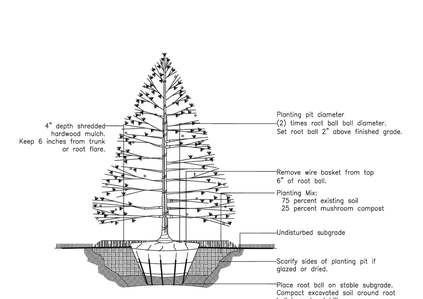
Detail
Shrub Planting



Detail
Perennial Planting



Detail
Deciduous Tree Planting



Detail
Evergreen Tree Planting

Hydroseed | Seed + Blanket

All perennial weeds shall be removed prior to seeding with an approved herbicide.

All seeded areas shall be blanketed with North American Green DS-75 Erosion Control Blanket following seeding.

Seed shall be applied at the rate of 5 lbs. per 1000 square feet between August 20 – September 20 or March 15 – May 15. Seed shall be covered with one-fourth inch (1/4") of soil.

Notes

Per the City of Crest Hill Weed Ordinance, at no point shall the grassed areas exceed 6" height.

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Kimley»Horn
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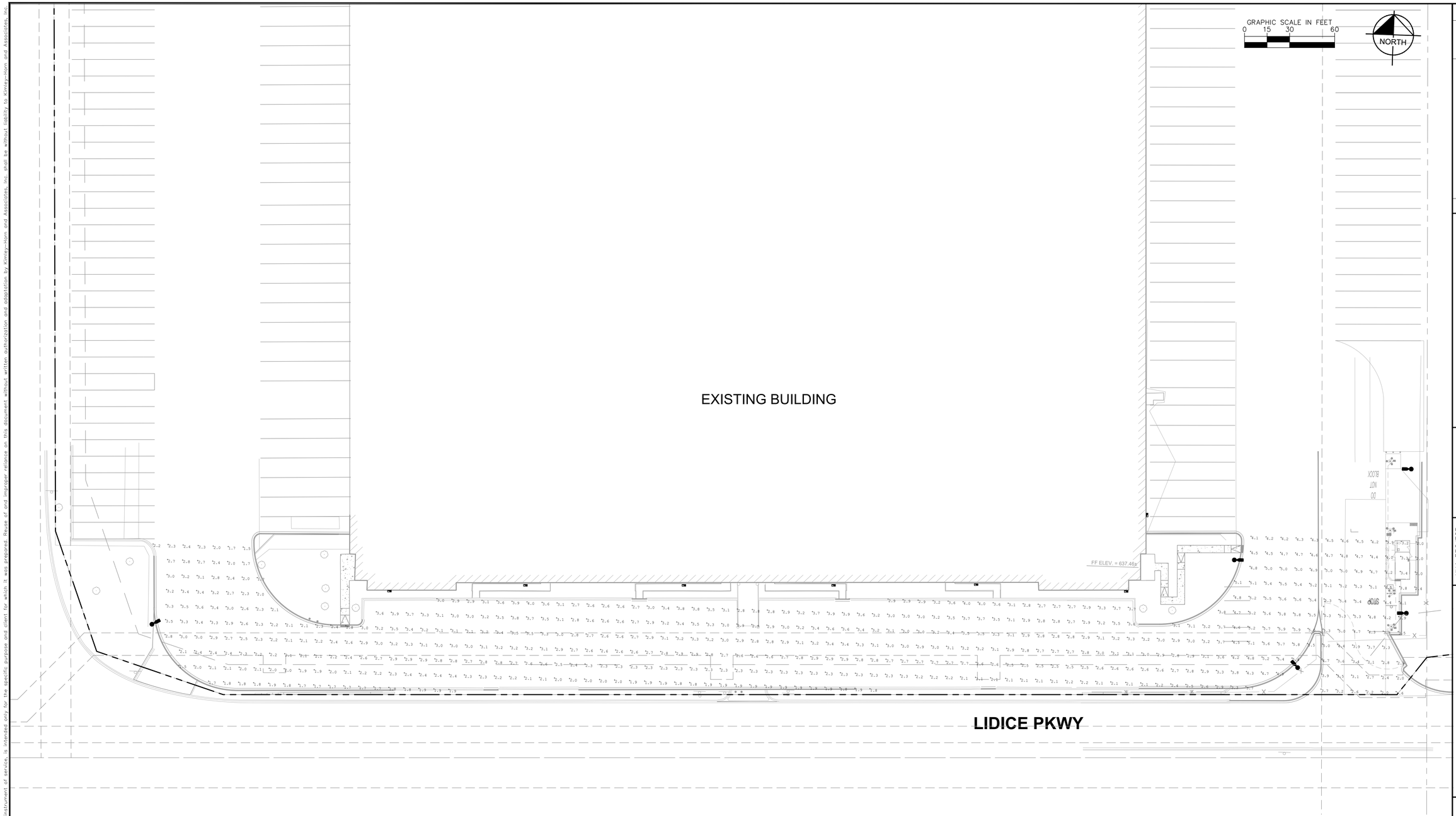
No.	REVISIONS	DATE	BY

LANDSCAPE AS-BUILT

MDW5
16825 CHURNOVIC LANE
CREST HILL, IL 60435
WILL COUNTY IL

SHEET NUMBER
L3.2

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LIGHTING SCHEDULE						
TAG	PRODUCT NUMBER	EXISTING QUANTITY	MOUNTING STYLE	LUMENS	WATTS	DESCRIPTION
●▬	DSX2 LED P4 40K 80CRI T4M	5	32FT POLE, SINGLE	32,627	322	PROPOSED WIDE THROW AREA LIGHT
◥	DSX2 LED 90C 1200 40K T4M MVOLT	7	WALL MOUNTED	32,943	322	WALL MOUNTED EXISTING LIGHTS

PROPOSED LIGHTING CALCULATIONS						
AREA	*ILLUMINANCE - AVERAGE (FC)*	*MAX (Fc)*	*MIN (Fc)*	*AVG/MIN*	*MAX/MIN*	*SUBSTANTIALLY CONFORMING?**
SOUTH PARKING LOT	3.02	5.90	1.50	2.01	3.93	YES

*BASED ON LIGHTING REQUIREMENTS DENOTED IN "AMAZON ASSOCIATE PARKING LOT DESIGN" DATED JUNE 26, 2023:
MINIMUM PARKING LOT LIGHTING: 1.5 FC
MAXIMUM MAX/MIN RATIO: 15:1
MAXIMUM AVG/MIN RATIO: 4:1

LEGEND

- PROPERTY LINE
- ●▬ PROPOSED LIGHT POLE AND FIXTURE
- # TAG CALLOUT
- ◥ EXISTING BUILDING MOUNTED WALLPACK

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY/STATE REGULATION AND CODES.
2. ALL PHOTOMETRIC VALUES SHOWN ON SITE PLAN IN TABLES ARE IN FOOTCANDLES (FC). 1 FC = 10.76 LUX.
3. CALCULATED VALUES ARE DERIVED THROUGH A COMPUTER BASED MODEL WITH LIGHT FIXTURE DATA AS SUPPLIED BY MANUFACTURER THROUGH IES FILES.
4. ANY DEVIATION FROM SPECIFIED FIXTURE MODELS AND MOUNTING HEIGHTS IN THIS EXHIBIT WILL DISCOUNT THE VALIDITY OF THESE CALCULATIONS.
5. THE PHOTOMETRIC ANALYSIS EXCLUDES ALL EXISTING OFF SITE STREET LIGHTING AND LANDSCAPE LIGHTING.
6. ALL LUMINAIRE SYMBOLS ARE DIAGRAMMATIC ONLY. CONTRACTOR TO FIELD COORDINATE EXACT LOCATIONS AND SETBACKS AGAINST UNDERGROUND UTILITY AND OTHER OBSTRUCTIONS.
7. ALL SITE LIGHTING POLES TO BE 29' AND MOUNTED ATOP A 4' CONCRETE BASE FOR A TOTAL MOUNTING HEIGHT OF 33'.

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KHA PROJECT 188864455
DATE 7/18/2025
SCALE AS SHOWN
DESIGNED BY: PY
DRAWN BY: PY
CHECKED BY: CWW

OVERALL PHOTOMETRIC PLAN

MDW5
16825 CHURNOVIC LANE
CREST HILL, IL 60435
WILL COUNTY IL

SHEET NUMBER
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CALLOUTS/REFERENCE SYMBOLS

SYMBOL	DESCRIPTION
1	KEYED NOTE DESIGNATOR
1	REVISION DESIGNATOR
XX / XX	HVAC EQUIPMENT DESIGNATOR
XX / XX	DETAIL DESIGNATOR. TOP DESIGNATOR IS DETAIL NUMBER, LOWER DESIGNATOR IS SERIES SHEET WHERE DETAIL APPEARS
1 / E-X	SECTION DESIGNATOR, TOP DESIGNATOR IS SECTION LETTER, LOWER DESIGNATOR IS SERIES SHEET WHERE DETAIL APPEARS.

SITE LIGHTING

SYMBOL	DESCRIPTION
	LIGHT POLE WITH DUAL LUMINARIES AS SHOWN. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	LIGHT POLE WITH SINGLE LUMINARY AS SHOWN. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	WALL MOUNTED (WALLPACK) LIGHT FIXTURE FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	FLAG POLE, FLOODLIGHT FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	PEDESTRIAN LIGHT POLE. TYPE AS INDICATED IN FIXTURE SCHEDULE

EMERGENCY/EXIT LIGHTING

SYMBOL	DESCRIPTION
	CEILING MOUNTED EXIT FIXTURE AND OUTLET WITH DIRECTIONAL INDICATOR. TYPE AS INDICATED IN FIXTURE SCHEDULE. SOLID PORTION REPRESENTS ILLUMINATED SIDE.
	WALL MOUNTED EXIT LIGHT FIXTURE AND OUTLET WITH DIRECTIONAL INDICATOR. TYPE AS INDICATED IN FIXTURE SCHEDULE. SOLID PORTION REPRESENTS ILLUMINED SIDE.
	WALL MOUNTED COMBO EXIT/EMERGENCY LIGHT FIXTURE AND OUTLET WITH DIRECTIONAL INDICATOR. TYPE AS INDICATED IN FIXTURE SCHEDULE. SOLID PORTION REPRESENTS ILLUMINATED SIDE.
	SELF-CONTAINED TWO-HEAD EMERGENCY BATTERY PACK FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	EXTERIOR MOUNTED EMERGENCY EGRESS. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	WALL MOUNTED DECORATIVE TWO-HEAD EMERGENCY BATTERY PACK FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	RECESS MOUNTED TWO-HEAD EMERGENCY BATTERY PACK FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	WALL MOUNTED LIGHT FIXTURE ON EMERGENCY. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	RECESSED EMERGENCY FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.

SWITCHES

SYMBOL	DESCRIPTION
$XX	SINGLE POLE WALL SWITCH. FLUSH MOUNTED UP 44" TO BOTTOM OF BOX UNLESS OTHERWISE INDICATED TYPE AS DESIGNATED BELOW

DESIGNATION	SYSTEM
2	DOUBLE POLE-SINGLE THROW
3	THREE WAY
4	FOUR WAY
EC	EVAPORATIVE COOLER
EXP	EXPLOSION PROOF
F	FAN SWITCH
K	KEYED
L	LIMIT
LV	LOW VOLTAGE
M	MOTOR RATED (i.e. HP RATED)
P	PILOT
WP	WEATHERPOOF

ELECTRICAL PREFERRED VENDORS

TENANT HAS NEGOTIATED UPFRONT PRICING WITH THE FOLLOWING VENDORS FOR ELECTRICAL EQUIPMENT. GENERAL CONTRACTOR AND/OR DEVELOPERS ARE DIRECTED TO INCLUDE THE FOLLOWING PREFERRED VENDORS IN THEIR SITE SPECIFIC BIDS. UPON REVIEW OF ALL PROPOSALS EITHER TENANT OR GENERAL CONTRACTOR/DEVELOPER SHALL AWARD FROM SHORT LIST OF PREFERRED VENDORS FOR LOW-MEDIUM VOLTAGE EQUIPMENT.

1. ABB
   CONTACT: ROBERT EVERS
   ROBERT.EVERS@US.ABB.COM
   PH. 404-312-4517

2. SCHNEIDER ELECTRIC (OEM)
   CONTACT: SCOTT WALTERS
   SCOTT.WALTERS@SE.COM
   PH. 262-617-9951

   GRAYBAR (OEM DISTRIBUTOR REFERENCE)
   CONTACT: STEVE BREEDEN
   STEVEN.BREEDEN@GRAYBAR.COM
   PH. 425-203-1568

3. EATON (OEM)
   CONTACT: DOUG BOGEN
   DOUGCBOGEN@EATON.COM
   PH. 503-804-6297

   STANDARD ELECTRIC (OEM DISTRIBUTOR REFERENCE)
   CONTACT: RYAN HUNT
   RHUNT@STANDARDELECTRIC.COM
   PH. 978-661-1884

ONE LINE SYMBOLS

SYMBOL	DESCRIPTION
	TRANSFORMER AS NOTED.
225AF 200AT 3P 35K AIC	CIRCUIT BREAKER, FRAME SIZE, TRIP SIZE, # SIZE, AIC RATING
600AS 300AF LPS	FUSIBLE SWITCH, SWITCH SIZE, FUSE SIZE, FUSE TYPE
M	UTILITY METERING
	MAIN LUGS ONLY CONNECTION
GFP	GROUND FAULT PROTECTION
	GROUND
	MAIN BREAKER PANELBOARD
	MAIN LUGS ONLY PANELBOARD
	FUSIBLE SAFETY SWITCH, PROVIDED AND INSTALLED UNDER DIV. 16. TO HAVE POLES AND RATIN. NEMA 3R UNLESS NOTED OTHERWISE.
	NON-FUSIBLE SAFETY SWITCH, PROVIDED AND INSTALLED UNDER DIV. 16. TO HAVE POLES AND RATIN. NEMA 3R UNLESS NOTED OTHERWISE.
LINE #1 / LOAD / LINE #2	DOUBLE POLE, DOUBLE THROW SAFETY SWITCH, PROVIDED AND INSTALLED UNDER DIV. 16. TO HAVE POLES AND RATING. NEMA 3R UNLESS NOTED OTHERWISE.
	ENCLOSED CIRCUIT BREAKER, FRAME SIZE, TRIP SIZE, # POLES, AIC RATING
SIZE 3	MAGNETIC STARTER PROVIDED AND INSTALLED UNDER DIV. 16.
SIZE 3	COMBO MAGNETIC STARTER PROVIDED AND INSTALLED UNDER DIV. 16.
M 2	MOTOR CONCECTION WITH HP INDICATED.
25 HP VFD	VFD WITH INTEGRAL CIRCUIT BREAKER
25 HP VFD	VFD WITH INTEGRAL FUZIBLE SWITCH
25 HP VFD	VFD WITHOUT BYPASS SWITCH
	WEATHERHEAD
K	KIRK KEY INTERLOCK

POWER

SYMBOL	DESCRIPTION
XX	DUPLEX CONVENIENCE OUTLET. UP 18" OR AS INDICATED. TYPE AS DESIGNATED BELOW.

DESIGNATION	SYSTEM
C	OCCUPANCY CONTROLLED FOR TITLE 24
TR	TAMPER RESISTANT
WP	WEATHERPROOF
EXP	EXPLOSION PROOF
D	DEDICATED 20A, 120V CIRCUIT

WC	GFCI DUPLEX OUTLET AT 18" FOR WATER COOLER CONNECTION
	GFCI DUPLEX OUTLET, UP 18" OR AS INDICATED.
	DOUBLE DUPLEX OUTLET, UP 18" OR AS INDICATED.
	OUTLET MOUNTED HORIZONTALLY, 6" ABOVE COUNTER OR TOP OF BACKSPLASH
6"AC	DOUBLE DEPLEX OUTLET 6" ABOVE COUNTER OR TOP OF BACKSPLASH.
GFCI	ROOF MOUNTED 20A WP GFCI SERVICE OUTLET PER NEC
	250 VOLT RECEPTACLE UP 24" OR AS INDICATED. AMPERAGE AS NOTED ON DRAWINGS.
	SPECIAL RECEPTACLE UP 24" OR AS INDICATED.
	20A 125V SIMPLEX OUTLET MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE.
	PEDESTAL MOUNT 20A 125V DUPLEX OUTLET MOUNTED 24" A.F.F. UNLESS NOTED OTHERWISE.
24"	PEDSTAL MOUNT 20A 250V OUTLET MOUNTED 24" A.F.F. UNLESS NOTED OTHERWISE.
24"	SWITCH CONTROLLED DUPLEX CONVENIENCE OUTLET, UP 18" OR AS INDICATED
SW	ISOLATED GROUND DUPLEX CONVENIECE OUTLET, UP 18" OR AS INDICATED
ISO	DOUBLE DUPLEX OUTLET, UP 18" OR AS INDICATED. CONNECT TO A DEDICATED 20A CIRCUIT.
D	

LIGHTING

SYMBOL	DESCRIPTION
	LAY-IN 1X4 FLUORESCENT FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	LAY-IN 2X4 FLUORESCENT FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	LAY-IN 2X2 FLUORESCENT FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	LAY-IN 2X2 PARABOLIC FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	LAY-IN 2X4 PARABOLIC FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	LAY-IN 2X2 DIRECT/INDIRECT FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	LAY-IN 2X4 DIRECT/INDIRECT FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
J	JUNCTION BOX WITH FLEXTAILS. MAXIMUM 6'-0" LENGTH OF CONDUIT WITH REQUIRED CONDUCTORS. ALONG WITH GREEN WIRE GROUND.
	LIGHTING FIXTURE INDICATED WITH CROSS SHADING IS CONNECTED TO EMERGENCY POWER SOURCE, OR HAS INTEGRAL BATTERY PACK 1350 LUMEN MIN.
	FLANGED OR SURFACE MOUNTED FLUORESCENT FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	FLANGE OF SURFACE MOUNTED 2X4 FLUORESCENT FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	FLANGE OR SURFACE MOUNTED 2X2 FLUORESCENT OR HID FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	FLUORESCENT UTILITY STRIP FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	FLUORESCENT INDUSTRIAL FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	ROUND RECESSED DOWNLIGHT. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	SUSPENDED INDIRECT FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	COVE FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	RECESSED WALL WASH FLUORESCENT FIXTURE. TYPE AS INDICATED IN SCHEDULE.
	SURFACE MOUNTED WASH FLUORESCENT. TYPE AS INDICATED IN SCHEDULE.
	HI-BAY MOUNTED FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
HB	LINEAR FLUORESCENT HI-BAY MOUNTED FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	WALL MOUNTED LIGHT FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	INTERIOR WALL SCONCE LIGHT FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	EXTERIOR WAS SCONCE LIGHT FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	SURFACE CEILING FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	PENDANT HUNG FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	STEM MOUNTED DECORATIVE FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	WALL MOUNTED FLUORESCENT FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	UNDERCOUNTER FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	STEP LIGHT. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	SQUARE DOWNLIGHT. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	RECESSED WALL WASH DOWNLIGHT. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	TRACK MOUNTED LIGHT FIXTURE AND OUTLET (LENGTH AS INDICATED). TYPE AS INDICATED IN FIXTURE SCHEDULE.
TR	LOW VOLTAGE LIGHTING STEP DOWN TRANSFORMER.

BOXES

SYMBOL	DESCRIPTION
J	JUNCTION BOX, WALL OR CEILING MOUNTED.
J	JUNCTION BOX FLUSH IN WALL. HEIGHT AS INDICATED FOR CONNECTION TO EQUIPMENT.
J	SCREW COVER JUNCTION BOX. SIZE AND TYPE AS SCHEDULED.

DESIGNATION	SYSTEM
CD	CORD DROP
CCTV	CLOSED CIRCUIT TELEVISION
DATA	DATA
FA	FIRE ALARM
IA	SECURITY
PA	PAGING/INTERCOM
PWR	POWER
TEL	TELEPHONE
TV	VIDEO

APPARATUS LEGEND

SYMBOL	DESCRIPTION
	SERVICE ENTRANCE RATED SWITCHBOARD.
	480/277V SURFACE MOUNTED DISTRIBUTION PANELBOARD. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
	480/277 SURFACE MOUNTED PANELBOARD. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
	480/277V FLUSH MOUNTED PANELBOARD. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
	208/120V SURFACE MOUNTED DISTRIBUTION PANELBOARD. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
	208/120V SURFACE MOUNTED PANELBOARD. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
	208/120V FLUSH MOUNTED PANELBOARD. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
T	FRY-TYPE TRANSFORMER AS NOTED.
	SAFETY SWITCH, PROVIDED AND INSTALLED UNDER DIV. 26. TO HAVE POLES AND RATIN. NEMA 3R UNLESS NOTED OTHERWISE.
	ENCLOSED CIRCUIT BREAKER, FRAME SIZE, TRIP SIZE, # POLES, AIC RATING
M	UTILITY METER ENCLOSURE, PROVIDE METER SOCKET ENCLOSER PER UTILITY STANDARDS
SM	SUB-METER ENCLOSURE. REFER TO DRAWINGS/SPECS FOR MORE INFORMATION.
	SPECIAL CABINET AS NOTED.
	SURGE PROTECTION DEVICES (SPD)

IMPORTANT NOTES

1.	FIELD COORDINATE ALL EQUIPMENT LOCATIONS REQUIREMENTS WITH TENANT PRIOR TO START OF ANY WORK.
2.	MAINTAIN MINIMUM CLEAR HEIGHT, AS DEFINED BY TENANT/ARCHITECT, BELOW ALL CEILING MOUNTED HVAC EQUIPMENT, FIRE PROTECTION SYSTEMS AND LIGHTING.
3.	NO ITEMS OR OBSTRUCTIONS SHALL BE INSTALLED BELOW SET CLEAR HEIGHT WITHOUT WRITTEN APPROVAL OF TENANT (CLEAR HEIGHT SHALL BE VERIFIED WITH TENANT/ARCHITECT PRIOR TO START OF WORK)
4.	NO ITEMS OR DEVICES SHALL BE INSTALLED ON THE FACE OF ANY INTERIOR STRUCTURAL COLUMN WITHOUT THE WRITTEN APPROVAL OF TENANT.
5.	ALL INTERIOR SWITCHBOARDS AND TRANSFORMERS SHALL BE MOUNTED ON 4" HOUSE-KEEPING PADS.
6.	NO CONDUIT SHALL BE MOUNTED TO THE BOTTOM OF ANY TRUSSES.
7.	ALL COLUMN MOUNTED DEVICES SHALL BE CENTERED IN SUCH A WAY THAT NO PORTION OF THE DEVICE, CONDUIT OR HARDWARE EXTEND BEYOND THE EDGE OF THE COLUMN.
8.	PROVIDE TYPED/PRINTED PERMANENT LABELS FOR ALL SWITCH BOARDS, PANELS, TRANSFORMERS AND DISCONECTS INDICATING DESIGNATION, VOLTAGE, PHASE AND WHERE IS IT FED FROM.
9.	ALL OUTLETS SHALL BE 20 AMPS UNLESS NOTED OTHERWISE.
10.	LABEL ALL WIRE'S WITH CIRCUIT DESIGNATION.
11.	ALL BRANCH CIRCUITS CONNECTIONS AT PANELS AND FEEDER CONNECTIONS AT SWITCHBOARDS SHALL BE ROUTED IN CONDUIT AND NOT MC. IT SHALL BE ACCEPTABLE TO TRANSITION TO MC HORIZONTALLY (OVERHEAD).
12.	ALL WIRING, INCLUDING GROUND WIRES, BELOW 10' AFF SHALL BE ROUTED IN CONDUIT.
13.	LABEL ALL WIRE'S WITH CIRCUIT DESIGNATION.
14.	ALL RECEPTACLES SHALL BE PERMANENTLY LABELED WITH PANEL AND BRANCH CIRCUIT. (UTILIZING A P-TOUCH OR SIMILAR TYPE LABEL)
15.	ALL CONDUIT TERMINATIONS AT/INTO PANELS SHALL BE IN CONDUIT. IT SHALL BE ACCEPTABLE TO TRANSITION TO MC CABLE FOR OVERHEAD ROUTING. (MC CABLE SHALL BE ACCEPTABLE WITHIN WALLS)
16.	ALL EXISTING PANELS AFFECTED BY THIS SCOPE OF WORK SHALL BE PROVIDED WITH NEW TYPED DIRECTORIES AND NEW NAMEPLATES IF NONE CURRENTLY EXIST.

ELECTRICAL COMPONENTS AND THEIR SUPPORTS SHALL BE INSTALLED IN ACCORDANCE WITH ASCE 7 SECTION 30.11 & 13.6 FOR SEISMIC/WIND CONCECTIONS AND GRAVITY SUPPORT.

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DANIEL L. PERVE
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LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

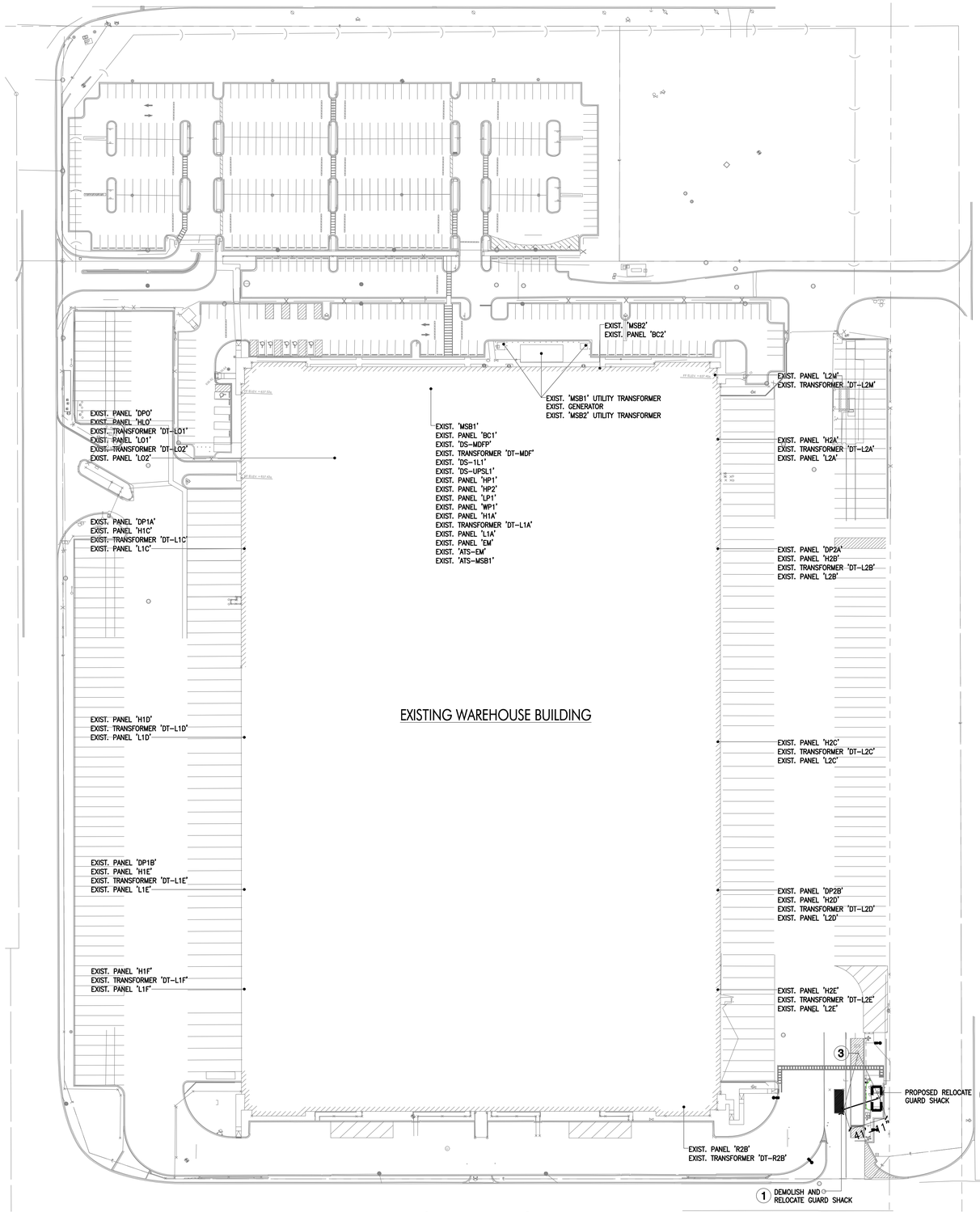
KHA PROJECT 168864455
DATE 07-18-25
SCALE AS SHOWN
DESIGNED BY: JD
DRAWN BY: JD
CHECKED BY: SJV

Electrical Symbols & Notes

MDW5
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1 **Electric Site Plan**
SCALE: 1/64" = 1'-0"

KEYED NOTES (#)

1. REMOVE EXISTING GUARD SHACK AND REINSTALL TO NEW LOCATION AS INDICATED ON THE SITE PLAN.
2. RELOCATE PROPOSED EXISTING GUARD SHACK TO DESIGNATED LOCATION INDICATED ON THE SITE PLAN.
3. THE ELECTRICAL CONTRACTOR SHALL EXCAVATE THE AREA SURROUNDING THE EXISTING UNDERGROUND CONDUIT AND PROPOSE ROUTING/TRENCHING TO EXTEND THE CONDUITS (POWER AND DATA/TELE) FROM THE EXISTING GUARD SHACK TO THE PROPOSED RELOCATED GUARD SHACK LOCATION. PROVIDE NEW CONDUIT AS REQUIRED. UPON COMPLETION, BACKFILL AND RESTORE THE EXCAVATED AREA TO ITS ORIGINAL CONDITION. COORDINATE WITH CIVIL DRAWINGS FOR ADDITIONAL INFORMATION AND TRENCHING REQUIREMENTS

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KHA PROJECT	168864455
DATE	07-18-25
SCALE	AS SHOWN
DESIGNED BY:	JD
DRAWN BY:	JD
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Electrical Site Plan

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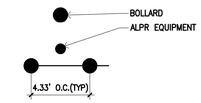
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ALPR Legend:

(1) FRONT CAMERA AND BOLLARDS

(2) ULTRASONIC SENSOR AND BOLLARDS

(3) REAR CAMERA AND BOLLARDS



ALPR Detail

ALPR KEYED NOTES (#)

A. (2) 4" UNDERGROUND PVC CONDUIT RACEWAYS. GC TO PROVIDE WITH PULLSTRINGS.

B. PROVIDE 12"x12"x8" NEMA 3R RATED ENCLOSURE WITH BOTTOM MOUNTED 12" ABOVE GROUND AND TERMINATE (1) 4" CONDUIT FROM GUARD HOUSE FOR FUTURE REQUIREMENTS. LOCATE WITHIN 24" OF ALPR CAMERA LOCATIONS. PROVIDE SUPPORT FOR FUTURE BOX.

C. ABOVE GROUND NEMA 3R RATED 42"x36"x12" ENCLOSURE WITH BOTTOM MOUNTED 12" ABOVE GROUND TO TERMINATE (5) 4" CONDUITS FROM ALPR CAMERA/SENSOR LOCATIONS AS DETAILED. (3) 4" CONDUITS SHALL BE PROVIDED FROM ENCLOSURE INTO GUARDHOUSE, UNDERNEATH OF WORK SURFACE WITHIN. PROVIDE UNISTRUT SUPPORT FOR BOX.

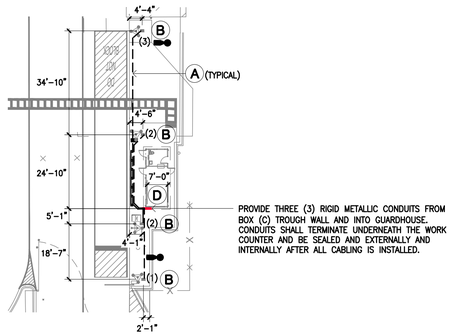
D. ABOVE GROUND NEMA 3R RATED 36"x32"x12" ENCLOSURE WITH BOTTOM 12" ABOVE GROUND TO TERMINATE (3) 4" CONDUITS FROM ALPR CAMERA/SENSOR LOCATIONS. (2) 4" CONDUITS SHALL BE PROVIDED FROM ENCLOSURE TO CENTRALLY LOCATED ENCLOSURE ADJACENT TO GUARDHOUSE (SEE NOTE C). PROVIDE UNISTRUT SUPPORT BOX.

GENERAL NOTES

1. "ALPR" IS THE USERS AUTOMATED LICENSE PLATE READER SYSTEM. THE SCOPE OF THIS DRAWING IS THE RACEWAY SYSTEM ASSOCIATED WITH THIS EQUIPMENT. ALL RACEWAYS SHALL BE INSTALLED UNDERGROUND AND ALL ELBOWS SHALL BE LONG SWEEPING TYPE SUITABLE FOR FIBER OPTIC CABLING.

SCOPE DEFINED
ALL INFRASTRUCTURE ROUGH-IN SHALL BE IN GC SCOPE INCLUDING CONDUIT AND NEMA BOXES.

CABLING SHALL BE PROVIDED AND INSTALLED BY AMAZON START-UP.



PROVIDE THREE (3) RIGID METALLIC CONDUITS FROM BOX (C) TROUGH WALL AND INTO GUARDHOUSE. CONDUITS SHALL TERMINATE UNDERNEATH THE WORK COUNTER AND BE SEALED AND EXTERNALLY AND INTERNALLY AFTER ALL CABLING IS INSTALLED.

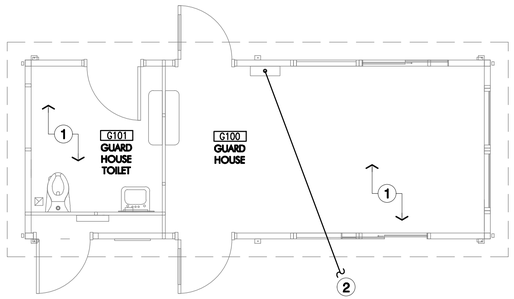
1 ALPR Low Voltage (Relocate Guard Shack)

SCALE: 1/16" = 1'-0"

KEYED NOTES (#)

1. THE EXISTING GUARD SHACK SHALL BE RELOCATED AS SHOWN. GC SHALL VERIFY THAT ALL EXISTING SYSTEMS, INCLUDING LIGHTING AND POWER WILL BE REUSED AS-IS.

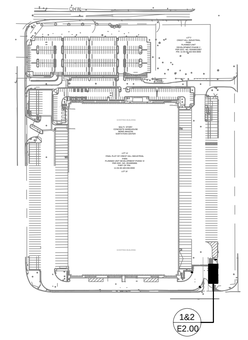
2. THE ELECTRICAL CONTRACTOR SHALL EXTEND THE CONDUITS (POWER AND DATA/TELE) FROM THE EXISTING GUARD SHACK TO THE PROPOSED RELOCATED GUARD SHACK LOCATION. PROVIDE NEW CONDUIT AS REQUIRED. UPON COMPLETION, BACKFILL AND RESTORE THE EXCAVATED AREA TO ITS ORIGINAL CONDITION. COORDINATE WITH CIVIL DRAWINGS AND SHEET E1.00 FOR ADDITIONAL INFORMATION.



2 Enlarged Electrical Plan (Relocate Guard Shack)

SCALE: 1/4" = 1'-0"

KEY PLAN



No.	REVISIONS	DATE	BY

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DANIEL L. REEVE
062-066204
LICENSED PROFESSIONAL ENGINEER
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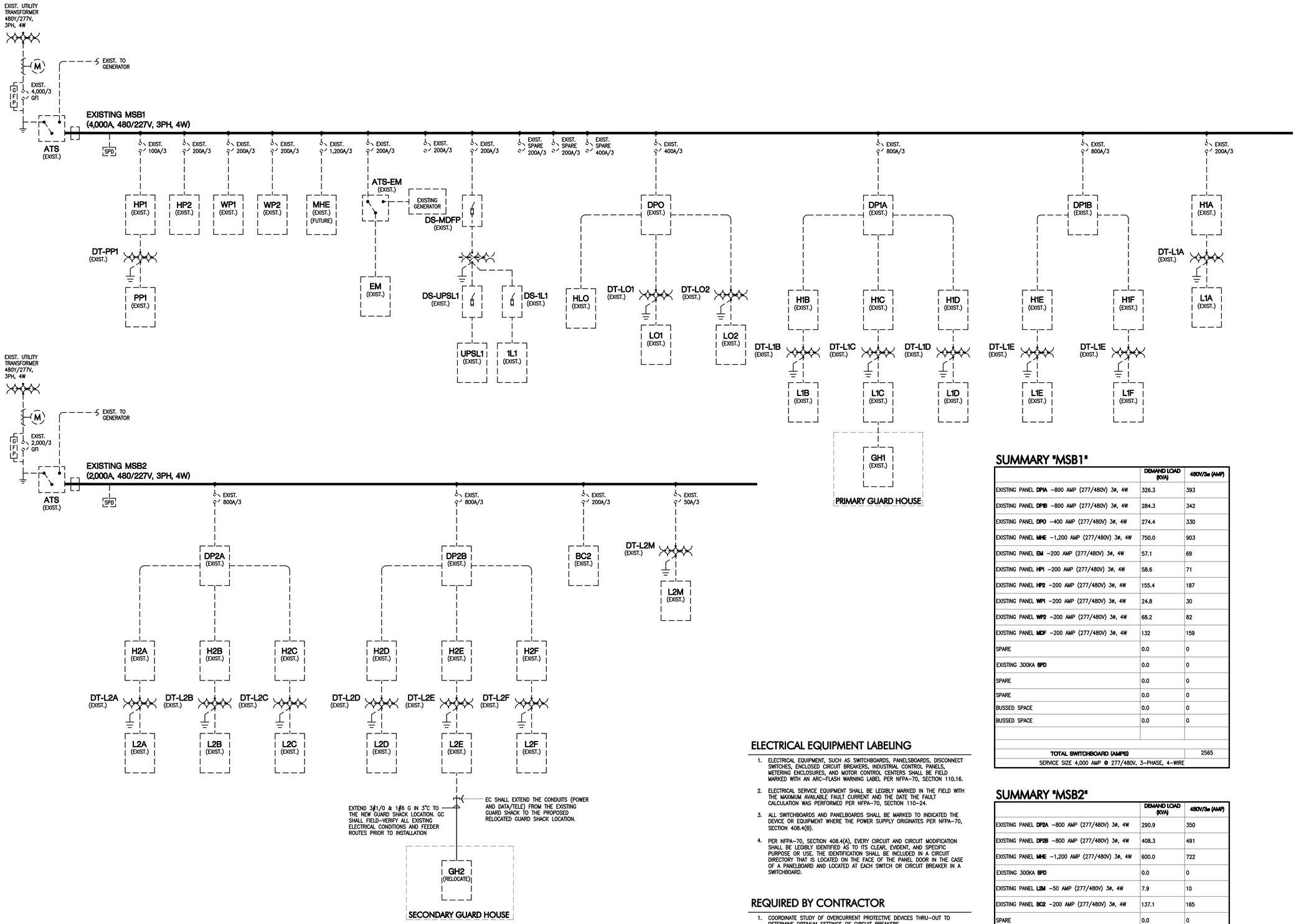
KHA PROJECT	168864455
DATE	07-18-25
SCALE	AS SHOWN
DESIGNED BY:	JD
DRAWN BY:	JD
CHECKED BY:	SJV

Guard Shack Plans & Details

MDW5
16825 CHURNOVIC LANE
CREST HILL, IL 60435
WILL COUNTY IL

SHEET NUMBER
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2 One-Line Power Riser Diagram (MSB1 & MSB2)

Scale: NTS

SUMMARY "MSB1"

	DEMAND LOAD (KVA)	480V/3ø (AMP)
EXISTING PANEL **DP1A** –800 AMP (277/480V) 3ø, 4W	326.3	393
EXISTING PANEL **DP1B** –800 AMP (277/480V) 3ø, 4W	284.3	342
EXISTING PANEL **DPO** –400 AMP (277/480V) 3ø, 4W	274.4	330
EXISTING PANEL **MHE** –1,200 AMP (277/480V) 3ø, 4W	750.0	903
EXISTING PANEL **EM** –200 AMP (277/480V) 3ø, 4W	57.1	69
EXISTING PANEL **HP1** –200 AMP (277/480V) 3ø, 4W	58.6	71
EXISTING PANEL **HP2** –200 AMP (277/480V) 3ø, 4W	155.4	187
EXISTING PANEL **WP1** –200 AMP (277/480V) 3ø, 4W	24.8	30
EXISTING PANEL **WP2** –200 AMP (277/480V) 3ø, 4W	68.2	82
EXISTING PANEL **MDF** –200 AMP (277/480V) 3ø, 4W	132	159
SPARE	0.0	0
EXISTING 300KA **SPD**	0.0	0
SPARE	0.0	0
SPARE	0.0	0
BUSSED SPACE	0.0	0
BUSSED SPACE	0.0	0
TOTAL SWITCHBOARD (AMPS)		2565
SERVICE SIZE 4,000 AMP @ 277/480V, 3-PHASE, 4-WIRE		

SUMMARY "MSB2"

	DEMAND LOAD (KVA)	480V/3ø (AMP)
EXISTING PANEL **DP2A** –800 AMP (277/480V) 3ø, 4W	290.9	350
EXISTING PANEL **DP2B** –800 AMP (277/480V) 3ø, 4W	408.3	491
EXISTING PANEL **MHE** –1,200 AMP (277/480V) 3ø, 4W	600.0	722
EXISTING 300KA **SPD**	0.0	0
EXISTING PANEL **L2M** –50 AMP (277/480V) 3ø, 4W	7.9	10
EXISTING PANEL **BC2** –200 AMP (277/480V) 3ø, 4W	137.1	165
SPARE	0.0	0
SPARE	0.0	0
TOTAL SWITCHBOARD (AMPS)		1738
SERVICE SIZE 2,000 AMP @ 277/480V, 3-PHASE, 4-WIRE		

ELECTRICAL EQUIPMENT LABELING

1. ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANELSBOARDS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BREAKERS, INDUSTRIAL CONTROL PANELS, METERING ENCLOSURES, AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED WITH AN ARC-FLASH WARNING LABEL PER NFPA-70, SECTION 110.16.
2. ELECTRICAL SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE FAULT CALCULATION WAS PERFORMED PER NFPA-70, SECTION 110-24.
3. ALL SWITCHBOARDS AND PANELBOARDS SHALL BE MARKED TO INDICATED THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES PER NFPA-70, SECTION 408.4(B).
4. PER NFPA-70, SECTION 408.4(A), EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL BE INCLUDED IN A CIRCUIT DIRECTORY THAT IS LOCATED ON THE FACE OF THE PANEL DOOR IN THE CASE OF A PANELBOARD AND LOCATED AT EACH SWITCH OR CIRCUIT BREAKER IN A SWITCHBOARD.

REQUIRED BY CONTRACTOR

1. COORDINATE STUDY OF OVERCURRENT PROTECTIVE DEVICES THRU-OUT TO DETERMINE OPTIMUM SETTINGS OF CIRCUIT BREAKERS.
2. SET ALL CIRCUIT BREAKERS AT RECOMMENDED SETTINGS AT COMPLETION OF PROJECT.
3. PROVIDE SELECTIVE COORDINATION OF EMERGENCY SYSTEMS.
4. PROVIDE ARC-FLASH STUDY AND ALL REQUIRED LABELS AT PANELS.

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STATE OF ILLINOIS

KHA PROJECT 168864455
DATE 07-18-25
SCALE AS SHOWN
DESIGNED BY: JD
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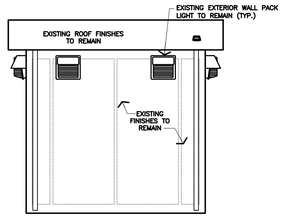
Electrical One Line Diagram

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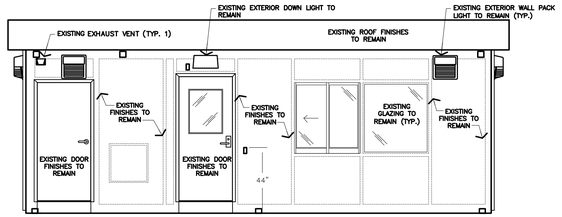
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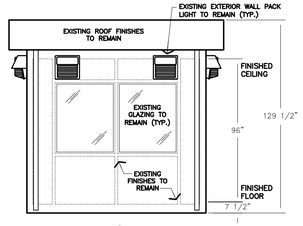
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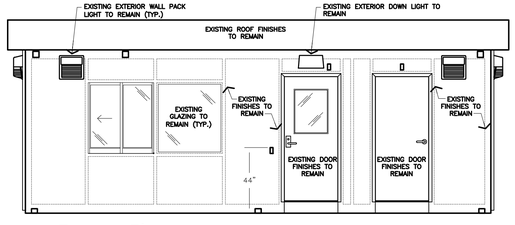
5 Exterior Elevation
SCALE 1/4" = 1'-0"



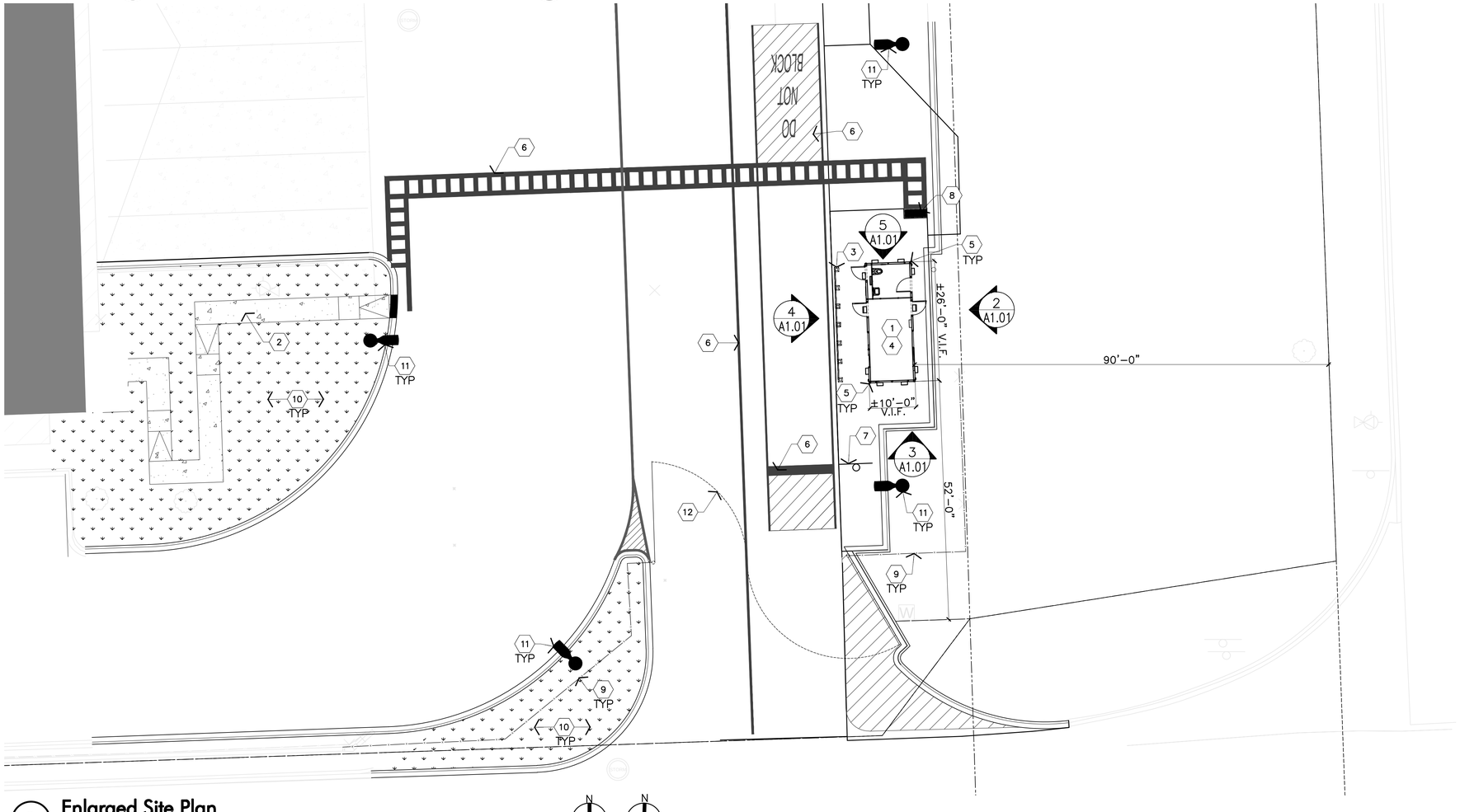
4 Exterior Elevation
SCALE 1/4" = 1'-0"



3 Exterior Elevation
SCALE 1/4" = 1'-0"



2 Exterior Elevation
SCALE 1/4" = 1'-0"



1 Enlarged Site Plan
SCALE 1" = 20'-0"

NOTE:
SITE PLAN SHOWN FOR REFERENCE ONLY.
ALL SITE WORK IS UNDER SEPARATE PERMIT.

N PLAN NORTH

N TRUE NORTH

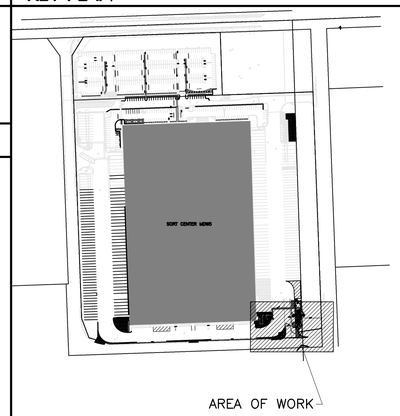
GENERAL NOTES

1. BUILDING DIMENSIONS TAKEN FROM INSIDE FACE OF CONCRETE PANEL.
2. DRIVE AISLE DIMENSIONS SHOWN ARE MEASURED FROM FACE OF CURB TO FACE OF CURB, OR BACK OF PARKING STALL TO BACK OF PARKING STALL.
3. SITE PLAN LAYOUT TO GRAPHICALLY ILLUSTRATE INTENT ONLY. OWNERS AND DESIGN TEAMS ARE RESPONSIBLE FOR RECONCILING WITH SITE SPECIFIC CONSTRAINTS AND JURISDICTIONAL REQUIREMENTS

KEY NOTES

1. LOCATION OF RELOCATED OUTBOUND GUARDSHACK.
2. NEW CONCRETE SIDEWALK, REF: CIVIL DRAWINGS.
3. EXISTING GUARDRAIL TO BE RE-INSTALLED IN NEW CONCRETE.
4. G.C. TO RE-INSTALLED ALL EXISTING SECURITY CAMERAS, LIGHTNING RODS, AND EXISTING EXTERIOR EQUIPMENT.
5. G.C. TO PROTECT/REPAIR EXISTING DOWNSPOUTS DURING CONSTRUCTION.
6. NEW PAVEMENT STRIPING, REF: CIVIL DRAWINGS.
7. NEW STOP SIGN LOCATION. REF: CIVIL DRAWINGS.
8. NEW CURB RAMP, REF: CIVIL DRAWINGS.
9. EXISTING SITE FENCE TO REMAIN.
10. NEW SITE LANDSCAPING. REF: CIVIL DRAWINGS.
11. NEW SITE LIGHT POLE, REF: ELECTRICAL DRAWINGS.
12. EXISTING CHAINLINK GATE TO REMAIN.

KEY PLAN



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LICENSED ARCHITECT
TIMOTHY LOTT
001.026969
7-18-25
STATE OF ILLINOIS

KHA PROJECT	168864455
DATE	07-18-25
SCALE	AS SHOWN
DESIGNED BY	JD
DRAWN BY	JD
CHECKED BY	SJV

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16825 CHURNOVIC LANE
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WILL COUNTY IL

Enlarged Site Plan
& Exterior Elevations

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1.00 DESIGN CRITERIA

1.01 2015 INTERNATIONAL BUILDING CODE WITH 2024 ILLINOIS STATE AMENDMENTS

1.02 RISK CATEGORY = II

1.03 DEFLECTION CRITERIA: SEE IBC TABLE 1604.3

1.04 LOADING INFORMATION

A. DEAD: BUILDING LOADS ARE LISTED ON PRE-ENGINEERED GUARD SHACK. DRAWINGS PROVIDED BY OTHERS.

B. LIVE: BUILDING LOADS ARE LISTED ON PRE-ENGINEERED GUARD SHACK. DRAWINGS PROVIDED BY OTHERS.

C. SNOW:
IMPORTANCE FACTOR, Is	= 1.0
GROUND SNOW LOAD. Pg	= 25 PSF

D. FROST:
FROST DEPTH	= 42 INCHES (BELOW GRADE. THE BOTTOM OF ALL FOUNDATIONS SHALL EXTEND TO THE FROST DEPTH, MINIMUM.)

E. WIND:
IMPORTANCE FACTOR, Iw	= 1.0
WIND SPEED, V (SITE SPECIFIC)	= 115 MPH (3 SEC GUST)
EXPOSURE CATEGORY	= C
INTERNAL PRESSURE COEFFICIENT, GCpi	= +/- 0.18

THE WIND PRESSURE IN TERMS OF POUNDS PER SQUARE FOOT TO BE USED FOR THE DESIGN OF EXTERIOR COMPONENTS AND CLADDING MATERIALS SHALL BE INDICATED ON THE SHOP DRAWINGS SUBMITTED BY THE SUPPLIER AND CERTIFIED BY A REGISTERED ENGINEER IN THE STATE OF THE PROJECT.

F. SEISMIC:
IMPORTANCE FACTOR, Ie	= 1.00
SPECTRAL RESPONSE ACCELERATION, Ss	= 0.138
SPECTRAL RESPONSE ACCELERATION, S1	= 0.068
SITE CLASS	= D
SITE COEFFICIENT, Fa	= 1.6
SITE COEFFICIENT, Fv	= 2.4
SPECTRAL RESPONSE COEFFICIENT, Sds	= 0.147
SPECTRAL RESPONSE COEFFICIENTS, Sd1	= 0.11
SEISMIC DESIGN CATEGORY	= A

2.00 DOCUMENTS AND LIMITATIONS

2.01 THESE STRUCTURAL DOCUMENTS, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, ARE INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. MUST BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

2.02 IT IS UNDERSTOOD THAT THE CONSULTANT MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, AS TO FINDINGS, DESIGNS, RECOMMENDATIONS, SPECIFICATIONS, OPINION, OR PROFESSIONAL ADVICE, EXCEPT THAT THESE INSTRUMENTS OF SERVICE HAVE BEEN PREPARED IN ACCORDANCE WITH THE CURRENT GENERALLY ACCEPTED PROFESSIONAL ENGINEER PRACTICES.

2.03 ALL NON-STRUCTURAL ELEMENTS INDICATED ON THE STRUCTURAL DRAWINGS HAVE BEEN SHOWN IN GENERAL TO THE RELATIONSHIP TO THE STRUCTURAL ELEMENTS ONLY. ACCORDINGLY, THEY MUST NOT BE ASSUMED TO BE ACCURATE AND REFERENCE MUST BE MADE TO THE APPROPRIATE CONSULTANT(S), PLANS, AND SPECIFICATIONS.

2.04 NOTES ON THIS AND THE FOLLOWING SHEETS ARE PART OF THE PROJECT REQUIREMENTS BUT ARE NOT INTENDED TO REPLACE THE PROJECT SPECIFICATIONS. IN CASE OF CONFLICTS BETWEEN THE REQUIREMENTS OF THE SPECIFICATIONS AND THESE NOTES, THE MORE STRINGENT REQUIREMENT MUST APPLY.

3.00 CONSTRUCTION SAFETY

3.01 IT IS UNDERSTOOD THAT THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK ON THE PROJECT. THE CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THE PERSONS AND PROTECT THEM AGAINST INJURY. LIKEWISE, THE CONTRACTOR MUST PROTECT ALL PROPERTY AGAINST DAMAGE OR LOSS.

3.02 THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OF PROPERTY.

3.03 THE CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR THE SAFETY AND PROTECTION OF THE WORK MUST CONTINUE UNTIL SUCH TIME AS THE WORK IS SATISFACTORILY COMPLETED, AND THE ENGINEER OF RECORD HAS ISSUED A NOTICE TO THAT EFFECT TO THE OWNER AND THE CONTRACTOR.

4.00 DIMENSIONS

4.01 BEFORE STARTING WORK, THE CONTRACTOR MUST VERIFY ALL DIMENSIONS ON THE SITE BEFORE STARTING WORK AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER OF RECORD.

4.02 BEFORE STARTING ANY WORK, THE CONTRACTOR MUST CHECK ALL DIMENSIONS GIVEN ON THE STRUCTURAL DRAWINGS RELATING TO GRID LINES, COLUMN AND WALL LOCATIONS, STRUCTURAL AND FINISHED FLOOR ELEVATIONS, MEMBER SIZES, ETC. WITH THE ARCHITECTURAL, CIVIL, AND MEP DRAWINGS. IF ANY DISCREPANCY IS NOTICED, IT MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER, AND WORK MUST NOT COMMENCE UNTIL INSTRUCTIONS ARE RECEIVED FROM THE ENGINEER.

4.03 THE CONTRACTOR MUST REFER TO THE ENGINEER OF RECORD FOR INSTRUCTION FOR ANY DIMENSION NOT GIVEN ON OR OBTAINABLE FROM THE CONSTRUCTION DRAWINGS. THE CONTRACTOR MUST NOT USE SCALE TO OBTAIN OR VERIFY ANY DIMENSION SHOWN ON THE CONSTRUCTION DRAWINGS.

5.00 SHOP DRAWINGS

5.01 REVIEW OF SHOP DRAWINGS BY THE ENGINEER OF RECORD IS LIMITED TO A REVIEW OF CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE PLANS AND SPECIFICATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DIMENSIONS, QUANTITIES, PERFORMANCE, SAFETY, COORDINATION WITH OTHER WORKS, AND ALL OTHER REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT.

5.02 THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW IN ACCORDANCE WITH A SCHEDULE OF SUBMITTALS ACCEPTABLE TO THE ENGINEER. THESE SHOP DRAWINGS MUST HAVE BEEN CHECKED BY, AND STAMPED WITH THE APPROVAL OF THE CONTRACTOR, AND IDENTIFIED AS THE ENGINEER MAY REQUIRE. THE DATA SHOWN ON THE SHOP DRAWINGS MUST BE COMPLETE WITH RESPECT TO DIMENSIONS, DESIGN CRITERIA, AND DULY SIGNED AND SEALED BY A PROFESSIONAL ENGINEER (WHERE APPLICABLE).

5.03 COMPLETE STRUCTURAL SHOP DRAWINGS FOR CONSTRUCTION OF EACH BUILDING COMPONENT NOT DESIGNED BY THE DESIGN TEAM-OF-RECORD AND NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ILLINOIS AND GET APPROVAL FROM ENGINEER OF RECORD PRIOR TO THE SUBMITTAL AND SHALL BE AVAILABLE AT THE JOB SITE DURING THE TIMES OF INSPECTION.

5.04 THE CONTRACTOR SHALL SUBMIT THE FOLLOWING SUBMITTALS, AT A MINIMUM:
A. FOUNDATION REBAR SUBMITTAL
B. CONCRETE MIX DESIGN SUBMITTAL
C. ANCHOR BOLTS SUBMITTAL

6.00 DEFERRED SUBMITTALS

6.01 THE FOLLOWING SUBMITTALS ARE DEFERRED FOR THEIR DESIGN TO BE PROVIDED BY THE SUPPLIER:

A. MISCELLANEOUS EQUIPMENT ANCHORAGE

6.02 DOCUMENTS FOR THE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED A MINIMUM OF 30 DAYS BEFORE ITEMS ARE TO BE INSTALLED. THESE ITEMS ARE TO BE REVIEWED BY THE GENERAL CONTRACTOR AND THE ENGINEER OF RECORD FOR GENERAL CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. REFER TO THE PROJECT MANUAL FOR DEFERRED SUBMITTAL DESIGN QUALIFICATIONS AND ADDITIONAL DEFERRED SUBMITTAL REQUIREMENTS.

7.00 REINFORCED CONCRETE (CAST-IN-PLACE)

7.01 THE GENERAL CONTRACTOR MUST ASSIST AND COOPERATE WITH AN INDEPENDENT TESTING LABORATORY (TO BE RETAINED BY THE OWNER) WHICH MUST CONDUCT ALL THE SPECIFIED TESTS REQUIRED FOR THE CONCRETE WORK AND REPORT THE RESULTS OF THESE TESTS DIRECTLY AND PROMPTLY TO THE ENGINEER FOR THEIR REVIEW.

7.02 DETAILING OF REBAR MUST BE IN ACCORDANCE WITH THE LATEST REVISION OF THE ACI DETAILING MANUAL, AND CONCRETE REINFORCING INSTITUTE'S LATEST EDITION OF "MANUAL OF STANDARD PRACTICE". ALL SHOP DRAWINGS PERTAINING TO REBAR DETAILS MUST BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW.

7.03 CONCRETE MIX DESIGN FOR ALL CONCRETE WORK IS REQUIRED TO BE SUBMITTED TO THE ENGINEER FOR REVIEW. THE CONCRETE SUPPLIER MUST HAVE A QUALITY CONTROL PROCEDURE FOR THE PRODUCTION OF ALL CONCRETE, WHICH MUST BE ACCEPTABLE TO THE ENGINEER AND MEET CURRENT ACI STANDARDS.

7.04 CONSTRUCTION JOINTS MUST BE AS APPROVED BY THE STRUCTURAL ENGINEER AND THE ARCHITECT. ENGINEER MUST BE INFORMED AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONCRETE WORK.

7.05 A COPY OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI SP 17 "FIELD REFERENCE MANUAL" MUST BE KEPT IN THE PROJECT FIELD OFFICE AT ALL TIMES.

7.06 CONCRETE PLACEMENT AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". CONCRETE SHALL BE PLACED WITHIHN 90 MINUTES OF BATCH TIME.

7.07 CONCRETE SHALL HAVE, AT THE POINT OF DELIVERY, A SLUMP OF 4 INCHES AS DETERMINED BY ASTM C163/C163M. SLUMP TOLERANCES SHALL MEET THE REQUIREMENTS OF ACI 116. WHEN A PLASTICIZING ADMIXTURE OR HIGH-RANGE WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494/C494M IS PERMITTED TO INCREASE THE SLUMP OF CONCRETE, CONCRETE SHALL HAVE BEEN PROPORTIONED TO A SLUMP OF 2 TO 4 IN. BEFORE THE ADMIXTURE IS ADDED AND A MAXIMUM SLUMP OF 8 IN. AT THE POINT OF DELIVERY AFTER THE ADMIXTURE IS ADDED.

7.08 GENERAL CONTRACTORS SHALL SUBMIT SHOP DRAWINGS FOR CAST-IN-PLACE CONCRETE THAT SHALL INCLUDE LOCATIONS AND COORDINATION OF ALL PENETRATIONS AND/OR EMBED PLATES. THE CONTRACTOR AND ALL UTILITY/MEPFP CONTRACTORS SHALL ACKNOWLEDGE REVIEW AND COORDINATION OF PENETRATIONS AND EMBED LOCATIONS, PRIOR TO ENGINEER'S SHOP DRAWING REVIEW.

7.09 SUBMITTALS:
a. DETAILED SHOP DRAWINGS OF REINFORCING BARS SHOWING NUMBER, SIZE, AND LOCATION. INCLUDED BAR LIST AND BEND DIAGRAMS.
b. MIX DESIGNS FOR EACH TYPE OF CONCRETE SPECIFIED SHALL BE SUBMITTED FOR APPROVAL.
c. PRODUCT DATA AND MATERIAL CERTIFICATES.

7.10 MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED. ENSURE FULL CONSOLIDATION OF CONCRETE AROUND REINFORCING STEEL, DOWELS, ANCHOR BOLTS, DEFORMED BAR ANCHORS, HEADED CONCRETE ANCHORS AND OTHER SIMILAR ITEMS DURING CONCRETE PLACEMENT.

7.11 TOLERANCES FOR REINFORCEMENT FABRICATION, REINFORCEMENT PLACEMENT AND CONCRETE CONSTRUCTION MUST CONFORM TO THE LATEST EDITION OF ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS."

7.12 EMBEDDED ITEMS THAT WILL SUPPORT STRUCTURAL STEEL CONSTRUCTION SHALL BE PLACED WITHIN THE TOLERANCES PRESCRIBED IN THE LATEST EDITION OF THE AISC " CODE OF STANDARD PRACTICE". GENERAL CONTRACTOR SHALL FIELD VERIFY LOCATION OF EMBEDDED ITEMS PRIOR TO FABRICATION AND DELIVERY OF STRUCTURAL STEEL TO THE PROJECT SITE.

7.13 PROVIDE BAR DETAILS AND SUPPORTS PER THE LATEST EDITION OF THE ACI DETAILING MANUAL AND BUILDING CODE. LAP ALL SPLICES AS SHOWN ON THE STRUCTURAL DRAWINGS.

7.14 CLEAR DISTANCE FROM FACE OF CONCRETE TO MAIN STEEL MUST BE AS SHOWN ON THE STRUCTURAL DRAWINGS. WHERE CLEAR DISTANCE IS NOT SHOWN, ACI 301 MUST BE THE CONTROLLING GUIDANCE.

7.15 ALL REINFORCEMENT SHOWN IS INTENDED TO BE CONTINUOUS UNLESS NOTED OTHERWISE. REFER TO REINFORCEMENT STEEL CHART FOR TENSION LAP SPLICES. PROVIDE CLASS B LAP SPLICES FOR ALL REBAR SPLICES RELATING TO FOUNDATION WORK UNLESS NOTED OTHERWISE.

7.16 WHERE SHOWN, BUT NOT SPECIFICALLY NOTED, PROVIDE STANDARD ACI 90-DEGREE OF 180-DEGREE HOOKS TO REBAR AS APPLICABLE.

7.17 PROVIDE 3/4 INCH CHAMFERS AT ALL EXPOSED EDGES UNO.

7.18 CORE DRILLING MUST NOT BE ALLOWED THROUGH IN-PLACE CONCRETE ELEMENTS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER. PENETRATIONS THROUGH CONCRETE ELEMENTS MUST BE ILLUSTRATED ON SHOP DRAWINGS AND MUST UTILIZE SCHEDULE 40 STEEL PIPE. CLEARANCE REQUIRED WITHIN PIPE SLEEVE MUST BE CONFIRMED BY SUBCONTRACTOR RESPONSIBLE FOR THE MATERIAL PASSING THROUGH THE SLEEVE. REINFORCEMENT CLEAR COVER MUST BE MAINTAINED AROUND THE SLEEVE PENETRATION.

7.19 STRUCTURAL CONCRETE MATERIALS SHALL CONFORM TO THE FOLLOWING:
a. PORTLAND CEMENT SHALL CONFORM TO ONE OF THE FOLLOWING:
1. TYPE I/II (ASTM C150)
2. TYLE IL (ASTM C595)
3. TYPE IP (ASTM C595)
4. TYPE IS (ASTM C595)
5. TYPE IT (ASTM C595)
b. AGGREGATES (3/4" MAX.) - ASTM C33
c. AIR ENTRAINING (4.5% - 7% MAX.) - ASTM C260
d. WATER REDUCING - ASTM C494
e. FLY ASH (MAX 25% BY WEIGHT), TYPE F - ASTM C618
f. WATER - CLEAN AND POTABLE
g. REINFORCING STEEL: ASTM A615 GRADE 60
h. WELDED WIRE FABRIC: ASTM A1064
i. GROUT SHALL BE NON-SHRINK, NON-METALLIC
j. USE OF CALCIUM CHLORIDE IS NOT PERMITTED

7.20 PROVIDE SURFACE CLASS A FINISH FOR ALL CONCRETE EXPOSED TO PUBLIC VIEW.

8.00 POST-INSTALLED ANCHORS

8.01 UNLESS OTHERWISE INDICATED ON PLANS, POST-INSTALLED ANCHORS MUST CONSIST OF THE FOLLOWING ANCHOR TYPES, OR APPROVED EQUAL:

	ADHESIVE ANCHOR
SOLID CONCRETE	HILTI RE 500v3 SAFE SET SYSTEM HILTI HY 200 SAFE SET SYSTEM

8.02 SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR MUST PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT AND CURRENT BUILDING CODE.

8.03 INSTALL ANCHORS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, AS INCLUDING IN THE ANCHOR PACKAGING.

8.04 THE CONTRACTOR MUST ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

8.05 ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

8.06 EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR MUST REVIEW THE EXISTING STRUCTURAL DRAWINGS AND MUST UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS. CONTRACTOR MUST IMMEDIATELY CONTACT THE EOR IF A CONFLICT IS IDENTIFIED.

8.07 PERFORM A MINIMUM NUMBER OF FIELD PULL TEST PER BATCH OF ADHESEIVE AND PER NO. OF MECHANICAL ANCHORS AS SPECIFIED BELOW:
A. NO. OF TESTS
1. EPOXY ADHESIVE ANCHORING SYSTEM - 5 TESTS PER BATCH
B. ACCEPTANCE CRITERIA
1. FIELD PROOF LOAD TO BE SPECIFIED BY ENGINEER
2. ALLOWABLE DISPLACEMENT/SLIP AT FIELD TEST LOAD IS 1/16" UNO BY ENGINEER

9.00 FOUNDATION NOTES

9.01 FOUNDATIONS, FOUNDATION DRAINAGE, SLABS ON GRADE & OTHER ITEMS RELATED TO THE SOILS ARE DESIGNED IN ACCORDANCE WITH THE PRESUMPTIVE LOAD - BEARING VALUES, TYPE CH/CL SOIL IN LATEST IBC TABLE 1806.2.

A. ALLOWABLE BEARING PRESSURE = 1500 PSF

9.02 NO FOUNDATIONS SHALL BE PLACED ONTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST OR ICE.

9.03 THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY IN THE EVENT THAT THE SOILS CONDITIONS ENCOUNTERED VARY FROM THOSE SHOWN ON THE BORING LOGS OF THE GEOTECHNICAL ENGINEERING REPORT.

9.04 THE CONTRACTOR SHALL DESIGN AND CONSTRUCT ALL TEMPORARY CASING, PROTECTION, SHORING, BRACING, DEWATERING, AND UNDERPINNING NECESSARY TO COMPLETE THE WORK. ALL TEMPORARY SYSTEMS SHALL BE DESIGNED BY AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

9.05 LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND AFTER CONSTRUCTION.

9.06 REMOVE ABANDONED FOUNDATIONS AND UTILITES WHICH INTERFERE WITH NEW CONSTRUCTION UNLESS OTHERWISE INDICATED.

9.07 CONCRETE WORK BELOW GRADE SHALL BE DETAILED AS WATERTIGHT CONSTRUCTION. CONSTRUCTION JOINTS BELOW GRADE SHALL BE WATERTIGHT.

9.08 MINIMUM DEPTH FROM GRADE TO BOTTOM OF FOOTINGS SHALL BE 18 INCHES MINIMUM.

9.09 BACKFILL MATERIALS & SUBGRADE MATERIAL, AND COMPACTION REQUIREMENTS SHALL BE AS RECOMMENDED IN THE GEOTECHNICAL REPORT.

9.10 COMPACT ALL SOIL UNDER FOUNDATIONS AND SLABS TO 95% STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D-698.

9.11 FOOTING AND SLAB SUBGRADE REQUIREMENTS:

A. THE TOP 1 FOOT OF SOIL FOOTING AND SLAB SUBGRADES CONSISTING OF COMPACTED FILL, RESIDUAL SOIL INTERMEDIATE ZONE SOILS OR BASE COURSE TYPE MATERIAL SHOULD BE COMPACTED IN PLACE TO ATTAIN AT LEAST 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY IN ACCORDANCE WITH THE STANDARD PROCTOR COMPACTION TEST (ASTM D 698) WITHIN +/- 2% OF THE MATERIAL'S OPTIMUM MOISTURE CONTENT.

9.12 ALLOWABLE DIFFERENTIAL SETTLEMENT LIMITED TO 1/4", AND ALLOWABLE TOTAL SETTLEMENT TO 1/4"

10.00 SPECIAL INSPECTION

10.1 THE OWNER SHALL EMPLOY SPECIAL INSPECTORS, QUALIFIED TO THE SATISFACTION OF THE BUILDING OFFICIAL, WHO SHALL PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE WORK INDICATED BELOW.

10.2 SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY. INSPECTORS FOR EACH SYSTEM AND MATERIAL SHALL BE INTERNATIONAL CODE COUNCIL (ICC) CERTIFIED OR OTHERWISE APPROVED BY THE BUILDING OFFICIAL.

10.3 THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

10.4 THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, CONTRACTOR, OWNER, AND ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL.

10.5 SEE PROJECT SPECIFICATIONS AND REFERENCED STANDARDS FOR FREQUENCY OF TESTING.

10.6 AT THE CONCLUSION OF CONSTRUCTION, A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF PREVIOUSLY NOTED DISCREPANCIES SHALL BE SUBMITTED.

10.7 THE FOLLOWING TYPES OF WORK SHALL BE INSPECTED BY A SPECIAL INSPECTOR IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE:

SCHEDULE OF SPECIAL INSPECTION SERVICES

	ITEM	QUALIFICATIONS	SCOPE
CAST-IN-PLACE CONCRETE	1. MIX DESIGN / MATERIAL CERTIFICATION	ACI-CCI ICC-RCSI / SER	• COLLECT MIX DESIGNS AND VERIFY APPROPRIATE MIX USE DURING SPECIFIC INSTALLATION
	2. REINFORCEMENT INSTALLATION	SER / ACI-CCI ICC-RCSI	• PERIODIC INSPECTION, PRIOR TO EACH POUR, OF REINFORCING STEEL • COLLECTION AND REVIEW OF CERTIFIED MILL TEST REPORTS • CONTINUOUS INSPECTION OF REINFORCING STEEL WELDING
	3. CONCRETE PLACEMENT/ MONITORING FRESH CONCRETE, SAMPLING & PREP OF TEST SAMPLES	ACI-CCI ICC-RCSI ACI-CFTT ACI-STT	• CONTINUOUS INSPECTION OF CAST-IN-PLACE CONCRETE PLACEMENT • CONTINUOUS MONITORING OF SAMPLING OF FRESH CONCRETE, SLUMP TEST, AIR CONTENT TEST, TEMPERATURE OF CONCRETE AND CREATION OF STRENGTH TEST SPECIMENS • CONTINUOUS INSPECTION OF EMBEDS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT
	4. POST-INSTALLED ANCHORS	ACI-CCI ICC-RCSI	• CONTINUOUS INSPECTION OF ANCHORS AND REINFORCING STEEL POST INSTALLED IN HARDENED CONCRETE IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS
	5. FORMWORK GEOMETRY	ACI-CCI ICC-RCSI	• PERIODIC VERIFICATION, PRIOR TO EACH POUR, THAT FORMWORK GEOMETRY COMPLIES WITH CONTRACT DOCUMENTS
	6. EVALUATION OF CONCRETE STRENGTH	PE/ SER	• COLLECT AND REVIEW CONCRETE STRENGTH TEST REPORTS • NOTIFY SER OF FAILING TESTS
	7 CURING AND PROTECTION	ACI-CCI ICC-RCSI	• PERIODIC INSPECTIONS OF CURING TEMPERATURE AND TECHNIQUES
	8. EXPANSION JOINTS	PE/ SER	• CONTINUOUS INSPECTION OF BEARINGS OF CAST-IN-PLACE CONCRETE ELEMENTS AT EXPANSION JOINTS PRIOR TO AND DURING PLACEMENT
SOILS	1. SITE PREPARATION	EIT PE/GE	• DETERMINE THAT SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED SOILS REPORT AND GEOTECHNICAL RECOMMENDATIONS
	2. FILL PLACEMENT	EIT	• DETERMINE THAT MATERIAL USED AND MAXIMUM LIFT THICKNESS COMPLY WITH APPROVED SOILS REPORT AND GEOTECHNICAL RECOMMENDATIONS
	3. DENSITY EVALUATION	EIT	• DETERMINE THAT IN-PLACE DRY DENSITY OF THE COMPACTED FILL COMPLIES WITH APPROVED SOILS REPORT

CONCRETE MIXTURES

APPLICATION	EXPOSURE	F'c	MAXIMUM W/C	AIR CONTENT	NOMINAL MAXIMUM AGGREGATE SIZE (NOTE 4)	MAXIMUM CONCRETE WEIGHT
EXTERIOR PAD	F2	4000 PSI	0.42	4.5% - 7.5%	1"	150 PCF

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No.	REVISIONS	DATE	BY

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081-008286
LICENSED STRUCTURAL ENGINEER
KYLE STEVEN SWENSON
STATE OF ILLINOIS
2025-07-18

KHA PROJECT	195250258
DATE	07/18/25
SCALE	As indicated
DESIGNED BY	JTH
DRAWN BY	JTH
CHECKED BY	KS

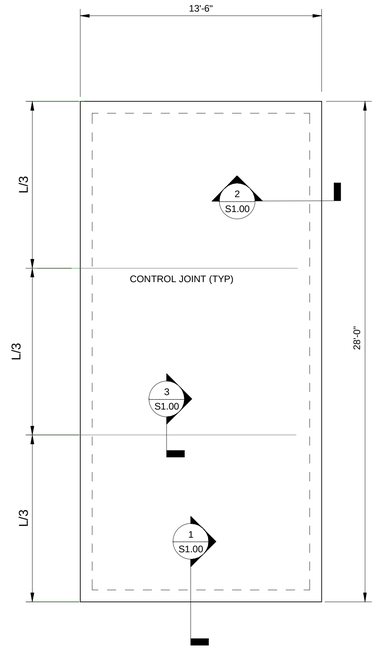
STRUCTURAL GENERAL NOTES

MDW5
16825 CHURNOVIC LANE
IL
CREST HIL

SHEET NUMBER
S0.00

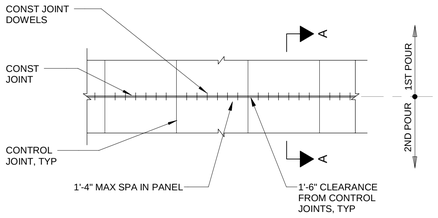
Autodesk Docs://ATL-MIDTOWN Internal Projects-Revit 2023/195250258-MDW5_Retaining Wall-Pad.rvt

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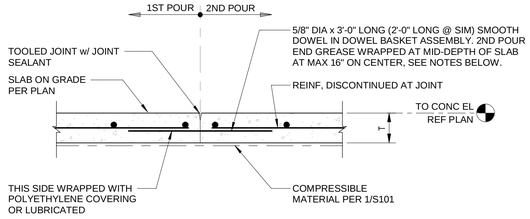


FOUNDATION NOTES:

1. REFER TO CIVIL FOR PLAN LOCATION OF GUARD SHACK.
2. WHERE SHOWN, BUT NOT SPECIFICALLY NOTED, PROVIDE STANDARD ACI 90 DEGREE OR 180 DEGREE HOOKS, AS APPLICABLE, TO REBAR.
3. GUARD SHACK TO BE CENTERED ON FOUNDATION.



PLAN (NTS)



SECTION A-A

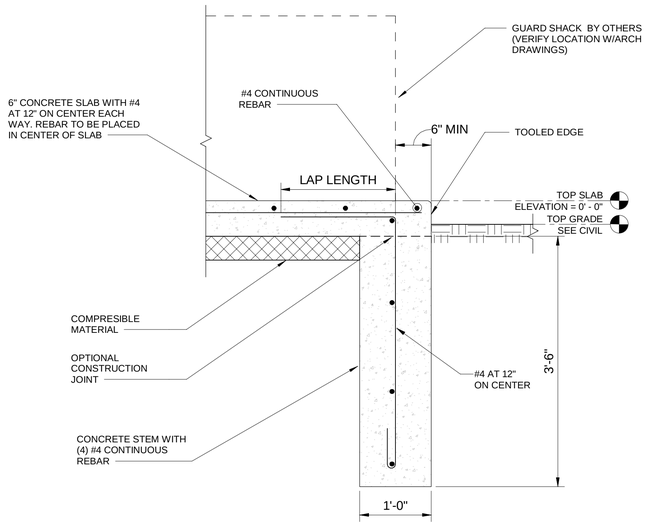
NOTES:
1. PAINT FACE OF JOINT WITH BOND BREAKING COMPOUND PRIOR TO 2ND POUR.
2. DO NOT PLACE DOWELS WITHIN 1'-6" OF SLAB PANEL CORNERS TO ALLOW CONTROL JOINTS TO ACTIVATE. MAX SPACING OF 3'-0" ACROSS CONTROL JOINTS.

4 S1.00 GUARD SHACK FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

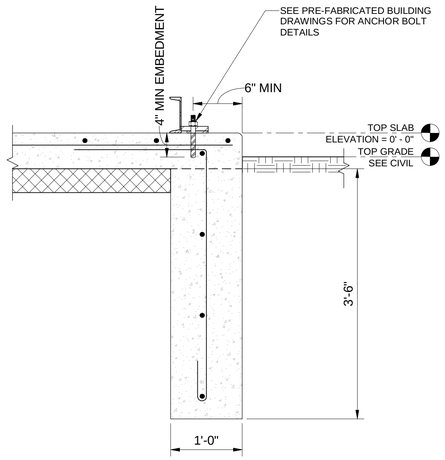
5 S1.00 GUARD SHACK CONSTRUCTION JOINT

SCALE: 1" = 1'-0"



1 S1.00 TYPICAL DETAIL - GUARD SHACK PAD

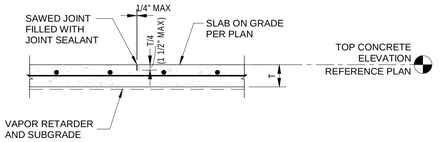
SCALE: 1" = 1'-0"



NOTE:
1. FOR MORE INFORMATION NOT SHOWN, SEE 1/S101.

2 S1.00 GUARD SHACK ANCHOR BOLT DETAIL

SCALE: 1" = 1'-0"



NOTES:
1. JOINT SHALL BE SAWED AS SOON AS CONCRETE SURFACE IS FIRM ENOUGH TO NOT BE DAMAGED BY THE BLADE AND BEFORE CONCRETE STARTS TO COOL.
2. PROVIDE CONTROL JOINT AT COLUMN CENTERLINES, BETWEEN COLUMN CENTERLINES AND AT FACE OF WALL WITH A MAXIMUM SPACING AS NOTED ON FOUNDATION PLAN, UNLESS NOTED OTHERWISE.
3. CONTROL JOINTS SHOULD BE CONTINUOUS ACROSS INTERSECTING JOINTS AND NOT STAGGERED OR OFFSET. JOINTS THAT CREATE L- AND T- SHAPED PANELS SHOULD BE AVOIDED. WHERE OFFSETS CANNOT BE AVOIDED, PROVIDE REINFORCING PER PLAN.

3 S1.00 GUARD SHACK CONTROL JOINT

SCALE: 3/4" = 1'-0"

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GUARD SHACK FOUNDATION PLAN AND DETAILS

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