CIVIL ENGINEERING PLANS COLD SUMMIT

SEC OF EARLYWOOD DR AND GRAHAM RD FRANKLIN, IN 46131

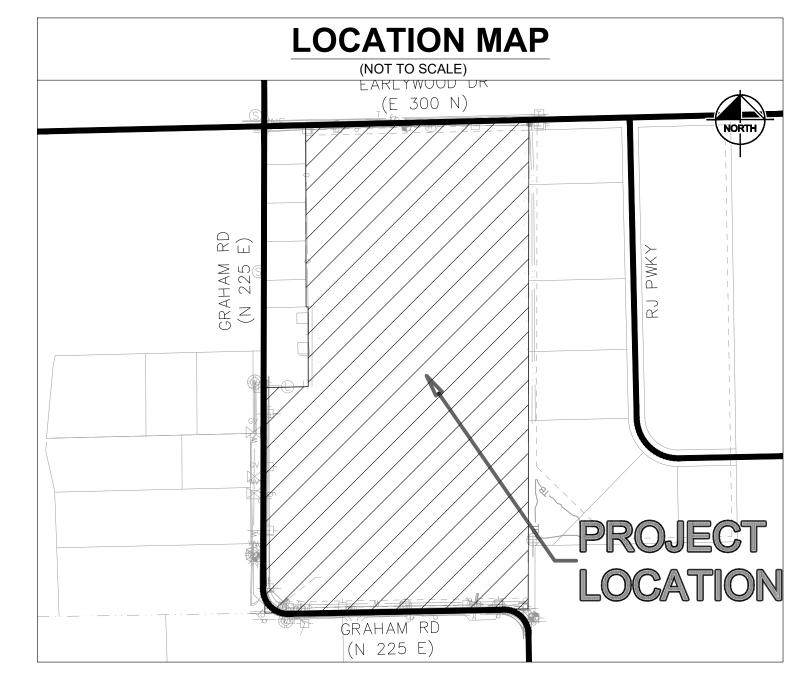
UTILIT	Y AND GOVE	RNING AGENCY	CONTAC	
SERVICE / JURISDICTION	COMPANY / DEPT.	ADDRESS	PHONE NUMBER	CONTACT
SANITARY SEWER	FRANKLIN DEPARTMENT OF PUBLIC WORKS	796 S STATE ST., FRANKLIN, IN 46131	(317) 736-3640	SALLY BROWN
STORM SEWER	FRANKLIN DEPARTMENT OF PUBLIC WORKS	796 S STATE ST., FRANKLIN, IN 46131	888-736-3640	MARK RICHARDS
LEGAL DRAINS	JOHNSON COUNTY SURVEYORS OFFICE	86 W. COURT ST #2, FRANKLIN, IN 46131	(317) 346-4341	GARY CANTWELL
WATER	INDIANA AMERICAN WATER	153 N. EMERSON AVE.,GREENWOOD, IN 46143	317-885-2426	TRACY WHITE
NATURAL GAS	CENTERPOINT ENERGY	600 INDUSTRIAL DR., FRANKLIN, IN 46131	(317) 736-2989	STEVE WASHBURN
ELECTRICITY	DUKE ENERGY	2515 N MORTON ST., FRANKLIN, IN 46131	(812) 662-2005	ALLEN DEAL
TELEPHONE / COMMUNICATIONS	INTERNET COMMUNICATIONS	739 COMMERCE DR., FRANKLIN, IN 46131	317-738-0320	
STREETS	FRANKLIN DEPARTMENT OF PUBLIC WORKS	796 S STATE ST., FRANKLIN, IN 46131	317-736-3660	BRETT JONES
PLANNING AND ZONING	CITY OF FRANKLIN DEPARTMENT OF PLANNING & ENGINEERING	70 E MONROE ST., FRANKLIN, IN 46131	877-736-3631	ENGINEERING: MARCH RICHARDS PLANNING: JOANNA TENNELL

PROJECT TEAM				
ROLE	COMPANY	ADDRESS	PHONE NUMBER	CONTACT
DEVELOPER/OWNER	COLD SUMMIT DEVELOPMENT	333 SOUTH N MAIN ST., KETCHUM, ID 83340	(208) 913-0400	ALEX LANGERMAN
CIVIL ENGINEER	KIMLEY-HORN & ASSOCIATES, INC.	250 E. 96TH ST., STE 580, INDIANAPOLIS, IN 46240	(317) 218-9560	BRYAN SHEWARD, P.E.
GEOTECHNICAL ENGINEER	ATLAS TECHNICAL CONSULTANTS, LLC	7988 CENTERPOINT DR., STE. 100, INDIANAPOLIS, IN 46256	(317) 849-4990	DAVID MCILWAINE, P.E.
LANDSCAPE ARCHITECT	KIMLEY-HORN & ASSOCIATES, INC.	250 E. 96TH ST., STE 580, INDIANAPOLIS, IN 46240	(317) 218-9560	MICHELLE DYER, PLA
LAND SURVEYOR	AMERICAN STRUCTURE POINT	9025 RIVER RD. STE. 200, INDIANAPOLIS, IN 46240	(317) 547-5580	ED SWEETLAND, PS

LEGAL DESCRIPTION

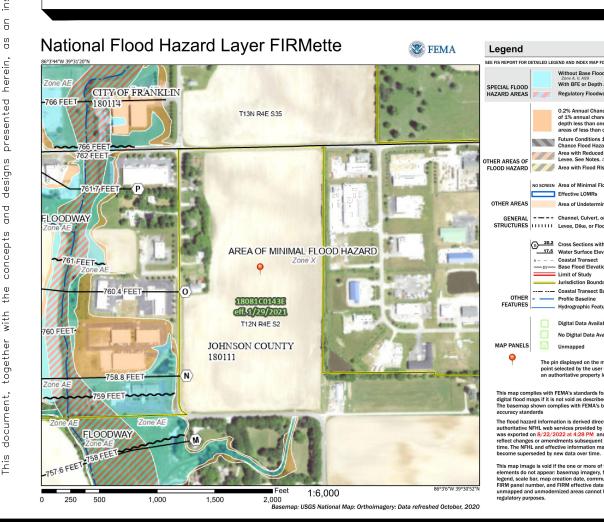
Part of the Northwest Quarter of Section 2, Township 12 North, Range 4 East of the Second Principal Meridian Franklin Township, in the City of Franklin, Johnson County, Indiana, described as follows: BEGINNING at a railroad spike found per ties at the Northeast corner thereof; thence South 00 degrees 23 minutes 05 seconds West (the basis of bearings are referenced to grid bearings based on NAD 83 Indiana State Plane Coordinate System, East Zone per Indiana Department of Transportation (INDOT) Continuously Operating Reference Stations (InCORS) real—time kinematic (RTK) correction service September 2018) along the East line thereof 1781.98 feet to the Southeast corner of the Northwest Quarter (rebar found leaning at the side of a ditch 0.6 feet South); thence South 89 degrees 23 minutes 44 seconds West along the South line thereof 960.03 feet to a rebar found 9 inches deep at the Southeast corner of the 4.4-acres' land described in a Quitclaim Deed to Franklin Christian Fellowship recorded as Instrument 2007-010755; thence North 00 degrees 11 minutes 04 seconds East along the East line thereof and the East line of the 7-acres' plat of Miller Flex Space Section 2 recorded as Instrument 2008-017707 and the re-plat thereof recorded as Instrument 2008-025819 and the East line of the 5-acres' plat of Miller Flex Space Park recorded as Instrument 2004—014451 a distance of 822.11 feet to a mag spike set 2.55 feet East of the physical centerline of Graham Road and 1.46 feet West of the Southwest corner of the 1.057—acres' land described in a Warranty Deed to Bradley M & Amanda K Denton recorded as Instrument 2011—025685; thence North 88 degrees 58 minutes 18 seconds East along the South line of said Denton land 159.98 feet to the Southeast corner thereof (rebar found 6 inches deep 1.3 feet east); thence North 00 degrees 11 minutes 04 seconds East along the East line of said Denton land 290.55 feet to a rebar with orange plastic cap marked MAIN STREET FIRM 0034 set at the Northeast corner thereof; thence South 88 degrees 58 minutes 18 seconds West 7.53 feet to a rebar with orange plastic cap marked MAIN STREET FIRM 0034 set at the Southeast corner of the 0.35+0.49-acres' land described in a Warranty Deed to Paul R & Daphne J Mowery recorded in Deed Book 191 Page 409; thence North 00 degrees 11 minutes 04 seconds East along the East line thereof and the East line of the 0.49—acres' land described in a Warranty Deed to Ryan Goins recorded as Instrument 2017—024635 and the East line of the 0.49—acres' land described in a Warranty Deed to Sandra H and Patrick L Gray recorded in Deed Book 253 Page 057 and the East line of the 0.49—acres' land described in a Warranty Deed to Samuel W & Pamela K Phelps recorded in Deed Book 258 Page 648 a distance of 662.08 feet to a mag spike set at the Northeast corner thereof on the North line of the Northwest quarter of Section 02; thence North 88 degrees 58 minutes 18 seconds East along said North line 813.93 feet to the POINT OF BEGINNING, containing 35.932 acres (1,565,213 SF), more or less.

No Digital Data Available



JOHNSON COUNTY

CONSTRUCTION OF A ±356,492 SF SPECULATIVE COLD STORAGE WAREHOUSE FOR COLD SUMMIT DEVELOPMENT ON ±28.81 AC. PROJECT IS IN SECTION 2 OF T12N, R4E IN THE CITY OF FRANKLIN, JOHNSON COUNTY, INDIANA



BENCHMARKS SITE BENCHMARKS: (LOCATIONS SHOWN ON SURVEY) BENCHMARK INFORMATION (NAVD 88 DATUM) BENCHMARK ELEVATIONS WERE ESTABLISHED FROM GPS OBSERVATIONS ON THE IDENTIFIED BASE STATION DESCRIBED WITHIN. AN NGS OPUS SOLUTION (FILE #0229217I) WAS OBTAINED AND USED TO CONTROL THE PROJECT'S VERTICAL DATUM. THE ELEVATIONS WERE THEN TRANSFERRED TO THE SIT USING DIFFERENTIAL LEVELING. TOP OF CUT "X" SET ON EAST MOST BONNET BOLT ONT HE TOP FLANGE OF A FIRE HYDRANT LOCATED 10'± WEST OF CR 225 EAST AND OFFSITE IMPACT CHRISTIAN CHURCH. ELEV: 761.30' TOP OF MAG SPIKE SET 1' UP ON THE NORTH SIDE OF COMBINATION POLE LOCATED 5'± SOUTH OF CR 300 NORTH AT THE CENTERLINE OF TBM #82 TOP OF MAG SPIKE SET 1' UP ON THE WEST SIDE OF WOOD FENCE POST LOCATED 5'± EAST OF CR 225 EAST AND DRIVEWAY ON CORNER.



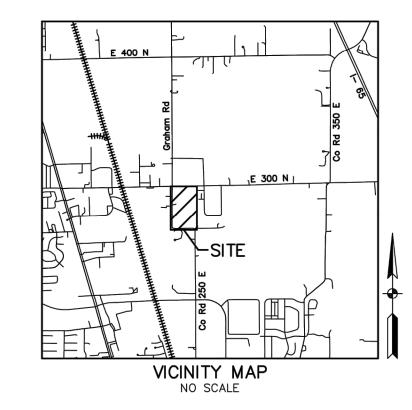
	Sheet List Table	
Sheet Number		
C0.0	TITLE SHEET	
V1.0	ALTA SURVEY	
V1.1	ALTA SURVEY	
C1.0	GENERAL SPECIFICATIONS	
C1.1	GENERAL NOTES	
C2.0	OVERALL EXISTING CONDITIONS AND DEMO PLAN	
C3.0	OVERALL SITE PLAN	
C3.1	SITE PLAN	S, OS N. OS
C3.2	SITE PLAN	HOC SSOCIATES, SUITE 580,
C3.3	SITE PLAN	MIEY-HORN AND ASSOCAST 96TH STREET, SUIT AFOLIS, IN 46240 IS 317-218-9560 IMLEY-HORN.COM
C3.4	SITE PLAN	HORN A H STRE IN 462 118-95 ORN.CC
C3.6	SITE PLAN	MLEY-
C3.5	SITE PLAN	2022 K 50 EAS FO EAS HONE:
C4.0	OVERALL EROSION CONTROL PLAN	CDC CDC KGP 8 MP N N N N N N N N N N N N N N N N N N
C4.1	EROSION CONTROL DETAILS	AS NOTED D BY: CDC BY: KGP
C4.1	SWPPP	SCALE: / DESIGNED DRAWN B CHECKED
C5.0	OVERALL GRADING AND DRAINAGE PLAN	SC S
C5.1	GRADING AND DRAINAGE PLAN	ALLENS REGISTER
C5.1	GRADING AND DRAINAGE PLAN GRADING AND DRAINAGE PLAN	WILLIAM A PEO CAG *
		A STORY
C5.3	GRADING AND DRAINAGE PLAN	MONAL ENGINEERING
C5.4	GRADING AND DRAINAGE PLAN	Byen Speward
C5.5	GRADING AND DRAINAGE PLAN	
C5.6	GRADING AND DRAINAGE PLAN	ENT
C6.0	OVERALL UTILITY PLAN	LOPM
C6.1	UTILITY PLAN	DEVE
C6.2	UTILITY PLAN	FIMM
C6.3	UTILITY PLAN	SOLD SUMMIT
C6.4	UTILITY PLAN	COL
C6.5	UTILITY PLAN	
C6.6	UTILITY PLAN	
C6.7	UTILITY PROFILES	
C6.8	UTILITY PROFILES	<u>بين</u>
C6.9	UTILITY PROFILES	SHE
C6.10	UTILITY PROFILES	S
C6.11	UTILITY PROFILES	Ш
C6.12	UTILITY PROFILES	
C6.13	UTILITY PROFILES	⊨
C7.0	CONSTRUCTION DETAILS	
C7.1	CONSTRUCTION DETAILS	
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C7.3	CONSTRUCTION DETAILS	
C7.4	CONSTRUCTION DETAILS	SUMMIT KLIN, IN
C7.5	CONSTRUCTION DETAILS	D SUMN ANKLIN,
L1.0	OVERALL LANDSCAPE PLAN	
L1.1	LANDSCAPE PLAN	COLD S FRANK
L1.2	LANDSCAPE PLAN	CRAI
L1.3	LANDSCAPE PLAN) SEC (
L1.4	LANDSCAPE PLAN	ORIGINAL ISSUE:
L1.5	LANDSCAPE PLAN	11/3/2022
L1.6	LANDSCAPE PLAN	KHA PROJECT NO. 170350000
L1.7	LANDSCAPE DETAILS	SHEET NUMBER
P1.0	PHOTOMETRICS	C0.0



- <u>LEGEND</u> ☐ Combination Pole
 - ⊕ Drainage Inlet
 - Fire Hydrant
 - Gas Marker Gas Valve
 - ─ Guy Wire
 - Lid Lid Mail Box
 - Post
 - S Sanitary MH -₀ Sign
 - Telephone Handhole Telephone Marker
 - -II- Telephone Pedestal Temporary Bench Mark
 - Water Meter
 - -ohe- Overhead Electric Line
 - -oht- Overhead Telephone Line
 - -g- Buried Gas Line -fo- Buried Fiber Optic Line

 - (M) Measured (R) Record
 - RBF Rebar Found
 - RBS Rebar Set
 - MNS Mag Nail Set
 - MSP Mag Spike Found





BENCHMARK INFORMATION (NAVD 88 DATUM)

BENCHMARK ELEVATIONS WERE ESTABLISHED FROM GPS OBSERVATIONS ON THE IDENTIFIED BASE STATION DESCRIBED WITHIN, AN NGS OPUS SOLUTION (FILE #02292171) WAS OBTAINED AND USED O CONTROL THE PROJECT'S VERTICAL DATUM. THE ELEVATIONS WERE THEN TRANSFERRED TO THE SITE USING DIFFERENTIAL LEVELING.

TOP OF CUT "X" SET ON EAST MOST BONNET BOLT ONT HE TOP FLANGE OF A FIRE HYDRANT LOCATED 10'± WEST OF CR 225 EAST AND OFFSITE IMPACT CHRISTIAN CHURCH. ELEV:761.30'

TOP OF MAG SPIKE SET 1' UP ON THE NORTH SIDE OF COMBINATION POLE LOCATED 5'± SOUTH OF CR 300 NORTH AT THE CENTERLINE OF SITE (POLE #817003).

TOP OF MAG SPIKE SET 1' UP ON THE WEST SIDE OF WOOD FENCE POST LOCATED 5'± EAST OF CR 225 EAST AND DRIVEWAY ON CORNER. ELEV:761.54'

Title Commitment Land Description

Part of the Northwest Quarter of Section 2, Township 12 North, Range 4 East of the Second Principal Meridian Franklin Township, in the City of Franklin, Johnson County, Indiana, described as follows:

BEGINNING at a railroad spike found per ties at the Northeast corner thereof; thence South 00 degrees 23 minutes 05 seconds West (the basis of bearings are referenced to grid bearings based on NAD 83 Indiana State Plane Coordinate System, East Zone per Indiana Department of Transportation (INDOT) Continuously Operating Reference Stations (InCORS) real-time kinematic (RTK) correction service September 2018) along the East line thereof 1781.98 feet to the Southeast corner of the Northwest Quarter (rebar found leaning at the side of a ditch 0.6 feet South); thence South 89 degrees 23 minutes 44 seconds West along the South line thereof 960.03 feet to a rebar found 9 inches deep at the Southeast corner of the 4.4-acres' land described in a Quitclaim Deed to Franklin Christian Fellowship recorded as Instrument 2007-010755; thence North 00 degrees 11 minutes 04 seconds East along the East line thereof and the East line of the 7-acres' plat of Miller Flex Space Section 2 recorded as Instrument 2008-017707 and the re-plat thereof recorded as Instrument 2008-025819 and the East line of the 5-acres' plat of Miller Flex Space Park recorded as Instrument 2004-014451 a distance of 822.11 feet to a mag spike set 2.55 feet East of the physical centerline of Graham Road and 1.46 feet West of the Southwest corner of the 1.057-acres' land described in a Warranty Deed to Bradley M & Amanda K Denton recorded as Instrument 2011-025685; thence North 88 degrees 58 minutes 18 seconds East along the South line of said Denton land 159.98 feet to the Southeast corner thereof (rebar found 6 inches deep 1.3 feet east); thence North 00 degrees 11 minutes 04 seconds East along the East line of said Denton land 290.55 feet to a rebar with orange plastic cap marked MAIN STREET FIRM 0034 set at the Northeast corner thereof; thence South 88 degrees 58 minutes 18 seconds West 7.53 feet to a rebar with orange plastic cap marked MAIN STREET FIRM 0034 set at the Southeast corner of the 0.35+0.49-acres' land described in a Warranty Deed to Paul R & Daphne J Mowery recorded in Deed Book 191 Page 409; thence North 00 degrees 11 minutes 04 seconds East along the East line thereof and the East line of the 0.49-acres' land described in a Warranty Deed to Ryan Goins recorded as Instrument 2017-024635 and the East line of the 0.49-acres' land described in a Warranty Deed to Sandra H and Patrick L Gray recorded in Deed Book 253 Page 057 and the East line of the 0.49-acres' land described in a Warranty Deed to Samuel W & Pamela K Phelps recorded in Deed Book 258 Page 648 a distance of 662.08 feet to a mag spike set at the Northeast corner thereof on the North line of the Northwest quarter of Section 02; thence North 88 degrees 58 minutes 18 seconds East along said North line 813.93 feet to the POINT OF BEGINNING, containing 35.932 acres (1,565,213 SF), more or less.

PRELIMINARY





9025 River Road, Suite 200 | Indianapolis, Indiana 46240 TEL 317.547.5580 | FAX 317.543.0270 www.structurepoint.com

COLD STORAGE

CR 300 N Franklin, IN

CERTIFIED BY

ISSUANCE INDEX

8/19/2022 PROJECT PHASE:

DATE:

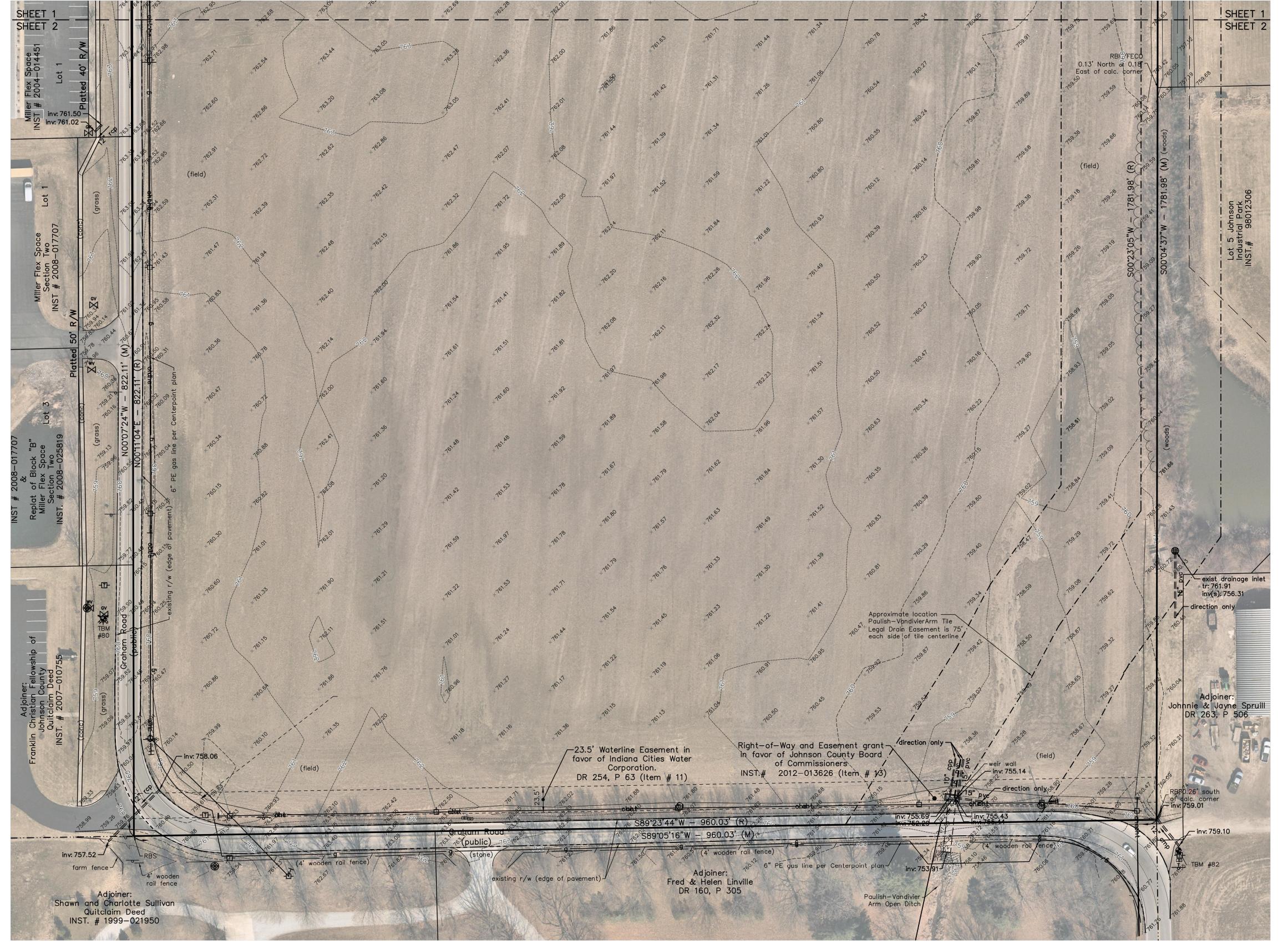
REVISION SCHEDULE NO. DESCRIPTION DATE

I affirm, under penalties for perjury, that I have taken reasonable care to redact each Social Security number in this document, unless required by law.

Project Number

2022.02088

ALTA/NSPS LAND TITLE & **TOPOGRAPHIC SURVEY**



SCALE: 1"=50'

LEGEND

₩ater Valve

-g- Buried Gas Line

(M) Measured

RBF Rebar Found

MNS Mag Nail Set

MSP Mag Spike Found

RBS Rebar Set

(R) Record

-ohe- Overhead Electric Line

-oht- Overhead Telephone Line

-fo- Buried Fiber Optic Line

⊕ Drainage Inlet

Fire Hydrant

Gas Marker

Gas Valve

─ Guy Wire

Post S Sanitary MH

Telephone Handhole

- l Telephone Marker -T- Telephone Pedestal

Temporary Bench Mark Water Meter

BENCHMARK INFORMATION (NAVD 88 DATUM)

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TOP OF MAG SPIKE SET 1' UP ON THE WEST SIDE OF WOOD FENCE POST LOCATED 5'± EAST OF CR 225 EAST AND DRIVEWAY ON CORNER. ELEV:761.54'

Theory of Location for Survey

Number 2012-008630.

In addition to the deed research completed for the survey, the following reference documents were reviewed and utilized for this survey. The Johnson Industrial Park plat prepared by Franklin Engineering and recorded as Instrument Number

The Miller Flex Space Park plat prepared by Franklin Engineering and recorded as Instrument Number

 The ALTA Survey prepared by Main Street Consulting Company and recorded as Instrument Number 2018-022094.

 The Miller Flex Space Park Section Two plat prepared by Franklin Engineering and recorded as Instrument Number 2008-017707 The replat of Block B of the Miller Flex Space Park Section Two plat prepared by Franklin Engineering and recorded as Instrument Number 2008-025819. The Location Control Route Survey Plat prepared by Alexander Surveying, LLC and recorded as Instrument

The north/south centerline of Graham Road was re-establish based on a found Mag nail located 0.3 feet north of the North line of the Northwest Quarter of Section 2, Township 12 North, Range 4 East and the calculated southwest corner of the survey. This line is the eastern line of the three Miller Flex Space plats.

No records were found for the existing right-of-way for Graham Road and County Road 300 North based on a search by the Johnson County Highway Department. The edge of pavements, which follows the INDOT right-of-way procedures, for these roads will be used as the existing right-of-way.

The plotted location of the Paulish-Vandivier Arm Tile is based on a map provided by the Johnson County Surveyor's Office and has not been physically located during this survey.

1. This plat of an ALTA/NSPS LAND TITLE SURVEY is based upon the Chicago Title Insurance Company commitment for title insurance having Commitment No. 22-80389 and the effective date of July 7, 2022.

2. No comment is made regarding the following Special Exceptions in Schedule B - Section II of the commitment for title insurance: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 16, 17, 18, 19, 20 and 24.

The following notes are keyed to the Special Exceptions in Schedule B - Section II of the commitment for title insurance. Affects or does not affect the survey site.

• Item #11 - See Right-of-way and Easement Grant recorded as Deed Record 254, Page 63 in favor of Indiana Cities Water Corporation for the affect this easement has on the site, the easement is plotted along the southern boundary line of the survey. • Item # 12 - See Deed of Easement and Right-of-Way Grant recorded as Instrument Number 98007853 in favor of Indiana

American Water Corporation for affect this easement has on the site, easement is plotted along the northern boundary line of

• Item # 13 - See Right-of-way and Easement Grant recorded as Instrument Number 2012-013626 in favor of the Johnson County Board of Commissioners for the affect this easement has on the site, easement is plotted along the southern boundary line of the survey. Item # 14 - See report item # 11 listed below.

3. The purpose of this survey was to prepare an ALTA/NSPS Land Title and Topographic Survey for the site.

4. No miscellaneous construction is underway at this site; this plat of an ALTA/NSPS LAND TITLE SURVEY represents the conditions at the date of latest field activity.

5. This plat of an ALTA/NSPS LAND TITLE SURVEY represents the conditions of the site on: August 12, 2022

6. The accuracy of any flood hazard data shown on this survey is subject to map scale uncertainty and to any other uncertainty in location or elevation on the referenced Flood Insurance Rate Map. Flood Insurance Rate Map having Community-Panel Number 18081C0143 E (effective date 29 January 2021) of the National Flood Insurance Program indicates this site to be within "X" (areas determined to be outside 500-year floodplain.

7. Basis of Bearing System: The East Line of the Northwest Quarter of Section 2, Township 12 North, Range 4 East was assumed to have a bearing of South 00 degrees 04 minutes 37 seconds West.

8. The locations of any underground utilities shown on this plat are based upon above ground evidence (including, but not limited to, manholes, inlets, and marks made on the ground by others) and are speculative in nature. There may be underground utilities for which there is no above ground evidence or for which the above ground evidence was not observed (i.e. buried or paved over).

9. The locations of any underground utilities shown on this plat are based upon above ground evidence (including, but not limited to, manholes, inlets, and marks made on the ground by others) and are speculative in nature. There may be underground utilities for which there is no above ground evidence or for which the above ground evidence was not observed (i.e. buried or paved over).

10. Table A, item 7 - There are no buildings located within the bounds of site.

11. REGULATED DRAIN NOTE: The Paulish-Vandivier Arm Tile is a tiled regulated drain. The limits of the statutory easement for an open regulated drain are seventy-five (75.00) feet measured at right angles from the centerline of the tile as determined by the County Surveyor (see I.C. 36-9-27-33 et seq.).

12. Table A, item 16 - There was no observed evidence of current earth moving work, building construction or building additions as of the last field date. 13. Table A item 17 - The Johnson County Highway Department is currently not planning to change the proposed street right of way

for Graham Road and County Road 300 North. There was no observed evidence of recent street or sidewalk construction or repairs observed in the process of conducting the fieldwork.

14. Table A item 18 - No plottable Offsite Easements were included within the provided in the documents provided to the surveyor. 15. American Structurepoint, Inc. makes no warranty, either expressed or implied, as to our stating, findings, recommendations, plans, specifications, zoning classification, setback requirements, flood hazard zones, wetlands or professional advice except that the work was performed pursuant to generally accepted standards of practice and degree of care exercised by members of the same profession on projects of comparable size and complexity. As used in this survey, the word certify (certified, certification, and/or certificate) shall be interpreted as meaning a professional opinion regarding the conditions of those facts and/or findings which are

16. This plat of an ALTA/NSPS LAND TITLE SURVEY represents a survey made under my supervision and in compliance with "Rule 12" of TITLE 865 of the INDIANA ADMINISTRATIVE CODE (establishes minimum standards for the competent practice of land surveying) and the MINIMUM STANDARD DETAIL REQUIREMENTS and CLASSIFICATIONS for ALTA/NSPS LAND TITLE SURVEYS (a copy of which is attached hereto and is hereby made a part hereof) with corners

the subject of the certification and does not constitute a warranty or guarantee, either express or implied.

17. It should be noted that there could be unwritten rights associated with uncertainties mentioned.

18. Improvements shown on the within survey are a representation of the conditions on the last date of field work (August 12, 2022) and not necessarily the conditions of the certification date.

19. ENCROACHMENT NOTE: Where the term encroachment is used on the face of the survey it is not intended to express a legal opinion as to the ownership or nature of the encroachment. It is merely a term used to show where an improvement crosses over a boundary line.

SURVEYOR'S CERTIFICATION

To Cold Storage Development, LLC, a Delaware limited liability company and Chicago Title Insurance Company

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2 3, 4, 5, 6a, 7(a), 7(b)(1), 7(c), 8, 9, 13, 14, 15, 16, 17, 18, and 19 of Table A thereof. The fieldwork was completed on August 12, 2022. Date of Plat or Map: August 19, 2022

This document is not valid unless imprinted with a land surveyor's signature and seal.

Edward J. Sweetland Professional Surveyor 29900000 Date: August 19, 2022

SURVEYOR'S REPORT

In accordance with 865 IAC 1-12-1 et seq., the following observations and opinions are submitted regarding the causes and the amounts

of uncertainty in the locations of the lines and corners found or established during this survey as a result of: A.) availability and condition of reference monuments,

B.) occupation or possession lines, C.) clarity or ambiguity of the record descriptions for the site and its adjoiners, and D.) the relative positional accuracy of the measurement.

A.The following monuments were found or re-established marking the corners common to the Northwest Quarter of Section 02, Township 12 North, Range 4 East and Southwest Quarter of Section 35. Township 13 North, Range 4 East Unless otherwise

noted, there is negligible uncertainty associated with the locations of these corners a. Northeast Corner of the Northwest Quarter of Section 2, Township 12 North, Range 4 East - set Mag nail based on the

Johnson County section corner ties.

b. Southeast Corner of the Northwest Quarter of Section 2, Township 12 North, Range 4 East - found rebar 0.26 feet south of calculated corner.

c. Southwest Corner of the Southwest Quarter of Section 35, Township 13 North, Range 4 East - found a Mag nail per Johnson County section corner records. d. Northwest Corner of the Northeast Quarter of the Southwest Quarter of Section 2, Township 12 North, Range 4 East - found

fence corner post per Alexander Surveying's route survey plat recorded as Instrument Number 2012-008630. B. Unless otherwise noted, there is no physical evidence of occupation or possession along the boundary lines of the subject parcel. a. Five property corners were located along the western boundary lines of the survey and whose locations are called out on this

b. Three property corners were located along the eastern boundary line of the site and whose locations are called out on this

c. A chain link fence was located at a distance varying 2.0 feet to 7.3 feet east of the western boundary line which has a

bearing/distance of North 00 degrees 07 minutes 24 seconds West 662.13 feet.

d. A farm field fence was located at a distance varying 13.5 feet to 14.5 feet east of the western boundary line which has a

bearing/distance of North 00 degrees 07 minutes 24 seconds West 290.55 feet. e. A wooden fence was located at a distance varying 2.0 feet to 4.0 feet east of the western boundary line which has a

bearing/distance of North 00 degrees 07 minutes 24 seconds West 290.55 feet. f. A shed was located 3 feet east of the western boundary line which has a bearing/distance of North 00 degrees 07 minutes 24 seconds West 290.55 feet.

g. A patio was located 10 feet east of the western boundary line which has a bearing/distance of North 00 degrees 07 minutes 24

seconds West 290.55 feet.

h. A barn was located 2 feet east of the western boundary line which has a bearing/distance of North 00 degrees 07 minutes 24 seconds West 290.55 feet. C. The record descriptions for the site and its adjoiners were obtained from the office of the Recorder of Johnson County (the latest

research date was August 3, 2022). The record descriptions for the adjoiners were mathematically retraced to disclose any gaps and/or overlaps between the boundary lines of the site and its adjoiners. The following observations are made as a result of this retracement: There were no gaps or overlaps between the boundary of the site and its adjoiners.

D.The relative positional accuracy (uncertainty due to random errors in measurement) of any point on the survey relative to any other point on the survey at the ninety-five percent (95%) confidence level is within the specifications for an Urban Survey (0.07 feet + 50 ppm) as defined in 865 IAC 1-12-7.

As a result of the above observations, it is my opinion that the uncertainties in the locations of the lines and corners established during this survey are as follows:

Due to variances in reference monuments: 0.3 feet; Due to **inconsistencies** in lines of occupation: 14.5 feet;

Due to **discrepancies** in the record descriptions: 0.0 feet; and Due to random errors in measurement: within the specifications for an Urban Survey (0.07 feet + 50 ppm) as defined in 865 IAC

PRELIMINARY

COLD SUMMIT DEVELOPMENT



9025 River Road, Suite 200 | Indianapolis, Indiana 46240 TEL 317.547.5580 | FAX 317.543.0270 www.structurepoint.com

COLD STORAGE

CR 300 N Franklin, IN

CERTIFIED BY ISSUANCE INDEX DATE:

8/19/2022

PROJECT PHASE:

REVISION SCHEDULE NO. DESCRIPTION DATE

affirm, under penalties for perjury, that I have taken reasonable care to redact each Social Security number in this document, inless required by law.

Project Number

2022.02088 **ALTA/NSPS LAND**

TITLE & **TOPOGRAPHIC SURVEY**

- 1. THE MUNICIPALITY REQUIREMENTS AND THE LATEST INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS INCLUDING CHANGES SHALL GOVERN ALL CONSTRUCTION ÎTEMS THAT ARE A PART OF THIS PLAN UNLESS OTHERWISE NOTED. WHEN CONFLICTS ARISE BETWEEN ABOVE LISTED SPECIFICATIONS, THE MORE STRINGENT SHALL TAKE PRECEDENCE.
- 2. 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 THIS

WORK MAY NOT BE SPECIFICALLY NOTED, BUT ARE CONSIDERED A PART OF THIS CONTRACT.

- 3. 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 PLAN. THE CONTRACTOR SHALL CALL INDIANA UTILITIES PROTECTION SERVICE (811 OR 1.800.362.2764) AND THE MUNICIPALITY FOR
- 4. NO CONSTRUCTION PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION" PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE SURVEYOR'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE/SHE 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.
- 5. NOTIFICATION OF COMMENCING CONSTRUCTION:

CONFLICT MAY BE RESOLVED.

- 5.1. 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 SUFFICIENTLY IN ADVANCE OF CONSTRUCTION.
- 5.2. 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.
- 6. ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL EMERGENCY TRAFFIC, AS DIRECTED BY THE MUNICIPALITY.
- 7. ALL PROPOSED GRADES SHOWN ON PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS NOTED OTHERWISE. 8. 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. 9. 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. THIS 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. FINAL GRADES MAY BE DETERMINED BY THE MUNICIPALITY AND MAY VARY FROM PLAN GRADE. 10. 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 HIS/HER OWN EXPENSE, AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE TO THE SATISFACTION OF THE OWNER. ANY SIGNS
- 11. 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.

NOT REQUIRED TO BE RESET SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.

- 12. ANY FIELD TILES ENCOUNTERED SHALL BE INSPECTED BY THE MUNICIPALITY. 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 MUNICIPALITY UPON COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- 13. BEFORE ACCEPTANCE, ALL WORK SHALL BE INSPECTED BY THE MUNICIPALITY, AS NECESSARY. 14. 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
- OWNER SHALL OBTAIN EASEMENTS AND APPROVAL OF PERMITS NECESSARY TO FACILITATION CONSTRUCTION OF THE PROPOSED UTILITIES. THE CONTRACTOR, HOWEVER, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS AND
- 16. THE CONTRACTORS SHALL PLAN THEIR WORK BASED ON THEIR OWN BORINGS, EXPLORATIONS, AND OBSERVATIONS TO DETERMINE SOIL CONDITIONS AT THE LOCATION OF THE PROPOSED
- 17. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB PER OSHA REGULATIONS. 18. 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 THEIR INSTALLATION SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, LATEST EDITION, AND IN ACCORDANCE WITH THE MUNICIPAL ORDINANCES.
- 19. 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.
- 20. NO UNDERGROUND WORK 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
- 21. 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. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS A PAY ITEM IS LISTED ON THE BID LIST.
- 22. AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND
- 23. TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED, AS PER MUNICIPAL STANDARDS.
- 24. 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 THIS WORK SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS/HER OWN EXPENSE. ALL CUTS OVER ONE (1) INCH IN DIAMETER SHALL BE PAINTED WITH AN APPROVED
- 25. 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. THIS 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 THIS PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS EXPENSE. NO EXTRA PAYMENT WILL BE MADE FOR CLEANING STRUCTURES OR STORM SEWERS CONSTRUCTED AS PART OF THIS PROJECT.
- 26. 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 \mid THE HYDRANT AT THE CONTRACTOR'S OWN EXPENSE. LEAKS IN THE WATER DISTRIBUTION SYSTEM SHALL BE THE RESPONSIBILITY OF THE WATER MAIN CONTRACTOR AND SHALL BE
- 27. AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED, THE CONTRACTOR SHALL PLACE EROSION CONTROL AT LOCATIONS INDICATED BY THE ENGINEER. THE PURPOSE OF THE EROSION CONTROL WILL BE TO MINIMIZE THE AMOUNT OF SILTATION THAT NORMALLY WOULD ENTER THE STORM SEWER SYSTEM FROM ADJACENT AND/OR UPSTREAM DRAINAGE AREAS.
- 28. 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 ENGINEER PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION UNLESS APPROVED IN WRITING BY THE
- 29. EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH IDEM REGULATIONS AND STANDARDS FOR SOIL EROSION AND SEDIMENTATION CONTROL AND SHALL BE MAINTAINED | OR SOILS TESTING AGENCY WITH THE CONCURRENCE OF THE OWNER. BY THE CONTRACTOR AND REMAIN IN PLACE UNTIL A SUITABLE GROWTH OF GRASS, ACCEPTABLE TO THE ENGINEER, HAS DEVELOPED.

EROSION CONTROL NOTES

- 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 POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENT PAVING, DRAINAGE SYSTEM STRUCTURE, OR LANDSCAPING.
- 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.
- BMP'S HAVE BEEN LOCATED AS INDICATED IN THESE PLANS 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

5.2. 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.

- THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.
- THE BASE COURSE MATERIAL.
- 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
- 2. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING SHALL BE REMOVED

DEMOLITION NOTES

- THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED 1 THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THE DEMOLITION PLAN.
- THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE | 2.1 ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO COMMENCING ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE
- THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO THE EXISTING BUILDING AT ALL TIMES. UTILITY SERVICES SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM THE CONSTRUCTION MANAGER.
- CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY DEMOLITION PERMITS.
- THE CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE TRUCKS AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
- REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC., THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS RFMOVAL AND REPAIR.
- REMOVAL AND/OR RELOCATION OF UTILITIES OR PRIOR TO ANY FURTHER DEMOLITION. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- OF THE PUBLIC.
-). CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE CONSTRUCTION MANAGER. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING
- DEWATERING SHOULD BE ANTICIPATED AND INCLUDED. DEWATERING SHALL BE DONE IN

EARTHWORK NOTES

- ALL EARTHWORK OPERATIONS TO CONFORM TO GEOTECHNICAL RECOMMENDATIONS IN THE
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE.
- 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 APPRISE HIMSELF/HERSELF ALL SITE CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL B CONSIDERED AS LUMP SUM FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL
- FINISHED GRADE AND SUBGRADE ELEVATIONS (AS NOTED) AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC., MUST BE ACCOUNTED FOR.
- 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.
- CONSTRUCTION.
- PROPERTY, ETC., SHALL OCCUR BEFORE GRADING BEGINS.
- . 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
- OCCURS, CONTRACTOR SHALL FULLY REMOVE SOIL CONTAINING LIME STABILIZATION AND REPLACE WITH HIGH QUALITY PLANTING SOIL.

- 1. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THOSE VEGETATION SHALL BE REMOVED PRIOR TO STRIPPING TOPSOIL OR FILLING AREAS.
- .2. PLACEMENT OF EXCAVATED MATERIAL IN OWNER-DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED AND THOSE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL. PROVIDE NECESSARY EROSION CONTROL MEASURES FOR STOCKPILE.
- 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.
- .4. TOPSOIL RESPREAD SHALL INCLUDE HAULING AND SPREADING OF TOPSOIL DIRECTLY OVER AREAS TO BE LANDSCAPED WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE OWNER.
- (8) INCHES IN THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE REQUIRED COMPACTION.
- 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 OVER TOPSOIL 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 OR AS RECOMMENDED BY THE GEOTECHNICAL REPORT.
- REMOVE SAID MATERIAL AND TO WHAT EXTENT SHALL BE MADE BY THE GEOTECHNICAL ENGINEER MISCELLANEOUS. THE CONTRACTOR SHALL:
- 5.1. SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED ALL EXCESS TRENCH SPOIL AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS.

- 5.3. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR
- 6. TESTING AND FINAL ACCEPTANCE
- THE CONTRACTOR SHALL PROVIDE AS A MINIMUM A FULLY LOADED SIX—WHEEL TANDEM AXLE GEOTECHNICAL ENGINEER OR SOILS TESTING AGENCY AND THE OWNER. (SEE PAVING SPECIFICATION.)
- AND REPLACED WITH SUITABLE MATERIAL OR OTHERWISE CORRECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER OR SOILS TESTING AGENCY.

RESPONSIBILITY FOR THE SUBGRADE.

OCCURS OVER THE MAJORITY OF THE AREA.

- LOCATIONS OF EXISTING UTILITIES AND FIELD VERIFY ALL UNDERGROUND UTILITIES.
- CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS
- THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE
- THE CONTRACTOR SHALL USE DUE CARE IN HAULING DEBRIS FROM SITE TO ENSURE THE SAFETY
- DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE. 3.1.
- WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
- ACCORDANCE WITH LOCAL AND REGIONAL REQUIREMENTS.

- GEOTECHNICAL REPORT.
- THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE
- THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION AND PREVENT
- 5. PLANS FOR THE SITE DEWATERING, IF EMPLOYED, SHALL BE SUBMITTED AND APPROVED PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING
- 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
- IF LANDSCAPE PLANTINGS ARE WITHIN OR ADJACENT TO AREAS WHERE LIME STABILIZATION

TOPSOIL EXCAVATION INCLUDES:

- AREAS THAT WILL REQUIRE EARTH EXCAVATION OR COMPACTED EARTH FILL MATERIAL. EXISTING | 5.1.
- 2.3. TOPSOIL STOCKPILED FOR RESPREAD SHALL BE FREE OF CLAY AND SHALL NOT CONTAIN ANY
- 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
- 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 O. FEET. THE FILL MATERIALS SHALL BE PLACED IN LOOSE LIFTS THAT SHALL NOT EXCEED EIGHT
- 3.3. STRUCTURAL FILL MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF THE SITE NOT
- 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

- 5.4. BACKFILL THE CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF

PAVING NOTES

- PAVING WORK INCLUDES FINAL SUBGRADE SHAPING, PREPARATION, AND COMPACTION; PLACEMENT OF SUBBASE OR BASE COURSE MATERIALS; BITUMINOUS INTERMEDIATE AND/OR SURFACE COURSES; FORMING, FINISHING, AND CURING CONCRETE PAVEMENT, CURBS, AND WALKS; AND FINAL CLEAN-UP AND ALL RELATED WORK.
- EARTHWORK FOR PROPOSED PAVEMENT SUBGRADE SHALL BE FINISHED TO WITHIN 0.1 FOOT, PLUS OR MINUS, OF PLAN ELEVATION. THE CONTRACTOR SHALL SATISFY HIMSELF THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED AND THAT THE FINISH 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 HE/SHE HAS APPROVED AND ACCEPTS THE
- 2.2. AFTER STRIPPING TO THE PROPOSED SUBGRADE LEVEL, THE BUILDING AND PARKING AREA SHOULD BE PROOF-ROLLED WITH A TANDEM AXLE DUMP TRUCK OR SIMILAR HEAVY RUBBER TIRED VEHICLE TYPICALLY WITH AN AXIAL LOAD GREATER THAN NINE (9) TONS OR MEETING SPECIFICATIONS OUTLINED IN INDOT CMS ITEM 204 FOR ROADWAY SUBGRADE COMPACTION
- MAXIMUM DEFLECTION ALLOWED IN ISOLATED AREAS MAY BE ONE (1) INCH IF NO DEFLECTION
- 2.4. PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER AND THE PLACEMENT OF THE BASE MATERIAL, THE PAVEMENT AREA SHALL BE FINE-GRADED TO WITHIN 0.04 FEET (1/2 INCH) OF FINAL SUBGRADE ELEVATION, TO A POINT TWO (2) FEET BEYOND THE BACK OF THE SO AS TO ENSURE THE PROPER THICKNESS OF PAVEMENT COURSES. NO CLAIMS FOR EXCESS | QUANTITY OF BASE MATERIALS DUE TO IMPROPER SUBGRADE PREPARATION WILL BE
- 2.5. PRIOR TO PLACEMENT OF THE BASE COURSE, THE SUBGRADE SHALL BE APPROVED BY THE TESTING ENGINEER.
- ALL EXTERIOR CONCRETE SHALL BE PORTLAND CEMENT CONCRETE CLASS S1 OR PV. CONCRETE SHALL BE A MINIMUM OF SIX (6) BAG MIX AND SHALL DEVELOP A MINIMUM OF 4,000 PSI COMPRESSIVE STRENGTH AT TWENTY-EIGHT (28) DAYS. ALL CONCRETE SHALL BE BROOM-FINISHED PERPENDICULAR TO THE DIRECTION OF TRAVEL.
- 3.2. CONCRETE CURB AND/OR COMBINATION CURB AND GUTTER SHALL BE OF THE TYPE SHOWN ON THE PLANS. THE CONTRACTOR IS CAUTIONED TO REFER TO THE CONSTRUCTION STANDARDS AND THE PAVEMENT CROSS SECTION TO DETERMINE THE GUTTER FLAG THICKNESS AND THE AGGREGATE BASE COURSE THICKNESS BENEATH THE CURB AND GUTTER. PRE-MOLDED FIBER EXPANSION JOINTS, WITH TWO 3/4-INCH BY 18-INCH EPOXY-COATED STEEL DOWEL BARS, SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. SAWED OR FORMED CONTRACTION JOINTS SHALL BE PROVIDED AT NO GREATER THAN TEN TO TWENTY-FIVE FOOT INTERVALS BETWEEN EXPANSION JOINTS. NO HONEY-COMBING OF THE
- CURB AND GUTTER WILL BE ACCEPTED. 3.3. CURBS SHALL BE DEPRESSED AT LOCATIONS WHERE PUBLIC WALKS INTERSECT CURB LINES AND OTHER LOCATIONS, AS DIRECTED, FOR THE PURPOSE OF PROVIDING ACCESSIBILITY.
- 3.4. THE CURBS SHALL BE BACKFILLED AFTER THEIR CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE
- 3.5. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE SCORED JOINTS AT MAXIMUM 6-FOOT INTERVALS AND 1/2-INCH PRE-MOLDED FIBER EXPANSION JOINTS AT 20-FOOT MAXIMUM INTERVALS AND ADJACENT TO CONCRETE CURBS. DRIVEWAYS, FOUNDATIONS, AND OTHER STRUCTURES.
- 3.6. CONCRETE DRIVEWAY APRONS SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE 6-INCH BY 6-INCH NO. 6 WELDED WIRE MESH IN ALL DRIVEWAYS. PROVIDE 1/2-INCH PRE-MOLDED FIBER EXPANSION JOINT ADJACENT TO CURBS AND CONCRETE
- 3.7. STANDARD REINFORCED CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. SAWED OR FORMED CONTRACTION EXPANSION JOINTS SHALL BE AS SHOWN
- 3.8. CONCRETE CURING AND PROTECTION SHALL BE PER INDOT STANDARDS. TWO (2) COATS OF INDOT APPROVED CURING AGENT SHALL BE APPLIED TO ALL EXPOSED CONCRÈTE SURFACES. 3.9. THE COST OF AGGREGATE BASE OR SUBBASE UNDER CONCRETE WORK SHALL BE INCLUDED IN
- FLEXIBLE PAVEMENT THE PAVEMENT MATERIALS FOR BITUMINOUS STREETS, PARKING LOTS, AND DRIVE AISLES SHALL BE AS DETAILED ON THE PLANS. UNLESS OTHERWISE SHOWN ON THE PLANS, TH FLEXIBLE PAVEMENTS SHALL CONSIST OF AGGREGATE BASE, ASPHALT INTERMEDIATE COURSE TYPE 2, AND ASPHALT SURFACE COURSE TYPE 1, OF THE THICKNESS AND MATERIALS SPECIFIED ON THE PLANS. THICKNESSES SPECIFIED SHALL BE CONSIDERED TO BE THE

THE COST OF THE RESPECTIVE CONCRETE ITEM.

- MINIMUM COMPACTED THICKNESS. 4.2. ALL TRAFFIC SHALL BE KEPT OFF THE COMPLETED AGGREGATE BASE UNTIL THE INTERMEDIATE 4. CONSTRUCTION: ALL STORM SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO
- PRIOR TO PLACEMENT OF THE SURFACE COURSE, THE INTERMEDIATE COURSE SHALL BI CLEANED AND TACK-COATED IF DUSTY OR DIRTY. ALL DAMAGED AREAS IN THE INTERMEDIATE COURSE, BASE, OR CURB SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER PRIOR TO LAYING THE SURFACE COURSE. THE CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT AND STAFF NECESSARY, INCLUDING THE USE OF POWER BROOMS IF REQUIRED BY THE OWNER, TO PREPARE THE PAVEMENT FOR APPLICATION OF THE SURFACE COURSE. THE TACK COAT SHALL BE UNIFORMLY APPLIED TO THE BINDER COURSE AT A RATE OF 0.05 TO 0.10
- GALLONS PER SQUARE YARD. TACK COAT SHALL BE AS PER INDOT STANDARDS. 4.4. SEAMS IN SURFACE AND BASE COURSES SHALL BE STAGGERED A MINIMUM OF 6 INCHES.
- TESTING AND FINAL ACCEPTANCE. THE CONTRACTOR SHALL FOLLOW THE QUALITY CONTROL TESTING PROGRAM FOR CONCRETE
- AND PAVEMENT MATERIALS ESTABLISHED BY THE ENGINEER. PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR, WHEN REQUIRED BY THE MUNICIPALITY, SHALL OBTAIN SPECIMENS OF THE INTERMEDIATE COURSE WITH A CORE DRILL WHERE DIRECTED, FOR THE PURPOSE OF THICKNESS
- FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE WITH A CORE DRILL WHERE DIRECTED IN ORDER TO CONFIRM THE PLAN THICKNESS. DEFICIENCIES IN THICKNESS SHALL BE ADJUSTED FOR BY THE METHOD REQUIRED BY INDOT STANDARDS.

5.3. WHEN REQUIRED BY THE MUNICIPALITY, THE CONTRACTOR SHALL OBTAIN SPECIMENS OF THE

- 5.4. FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND CHECKING REQUIREMENTS CITED ABOVE. ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE MUNICIPAL CODE. WHEN
- SHALL TAKE PRECEDENCE.

SIGNING AND PAVEMENT MARKING NOTES

TEMPERATURE IS 50 DEGREES FAHRENHEIT AND RISING.

ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM

TRAFFIC CONTROL DEVICES (MUTCD) AND THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT)

CONFLICTS ARISE BETWEEN MUNICIPAL CODE, AND GENERAL NOTES, THE MORE STRINGENT

SIGNS: SIGNS SHALL BE CONSTRUCTED OF 0.080-INCH THICK FLAT ALUMINUM PANELS WITH REFLECTORIZED LEGEND ON THE FACE. LEGEND SHALL BE IN ACCORDANCE WITH THE MUTCD. POSTS: SIGN POSTS SHALL BE NEW GALVANIZED STEEL PIPE IN ACCORDANCE WITH ASTM A 53

OR ASTM F 1083. USE STANDARD WEIGHT, SCHEDULE 40 PIPE PER THE INDOT STANDARDS.

PAVEMENT MARKINGS: ALL PAVEMENT MARKINGS IN THE ROADWAY LIMITS, SUCH AS STOP LINES, CENTERLINES, CROSSWALKS, AND DIRECTIONAL ARROWS, SHALL BE REFLECTORIZED THERMOPLASTIC HOT ROLLED INTO PAVEMENT OR PAINT PER INDOT STANDARDS.

4. SIGNS AND POSTS SHALL BE INSTALLED IN ACCORDANCE WITH INDOT STANDARDS.

APPLICATIONS, SHALL BE PAINT IN ACCORDANCE WITH INDOT STANDARDS. COLOR, WIDTH, STYLE, AND SIZE OF ALL MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND MUNICIPAL CODE.

DEGREES FAHRENHEIT AND RISING. PAINT MARKINGS MAY BE INSTALLED WHEN THE AIR

THERMOPLASTIC MARKINGS SHALL BE INSTALLED WHEN THE PAVEMENT TEMPERATURE IS 55

PAVEMENT MARKINGS ON BIKE PATHS, PARKING LOT STALLS, AND SIMILAR "LOW-WEAR"

SANITARY SEWER NOTES

FACILITATE SMOOTH FLOWS.

- ALL UNSUITABLE MATERIALS SHALL BE REMOVED BELOW THE PROPOSED SANITARY SEWER AND REPLACED WITH COMPACTED CRUSHED GRAVEL OR STONE, AS PER INDOT STANDARDS.
- ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR A DISTANCE OF THREE (3) FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH MATERIAL THAT HAS BEEN TREATED AND COMPACTED TO
- 95% OF STD. PROCTOR MAXIMUM DAY DENSITY. ALL SANITARY SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE
- CONNECTIONS TO EXISTING SANITARY SEWER SYSTEM SHALL NOT BE DONE UNTIL AUTHORIZED BY
- WATERMAINS SHALL BE SEPARATED FROM SANITARY SEWERS AND STORM SEWERS IN ACCORDANCE WITH INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT REQUIREMENTS, AS
- SPECIFIED IN THE STANDARDS FOR WATER AND SEWER CONSTRUCTION IN INDIANA. NO WATER LINE SHALL BE PLACED IN THE SAME TRENCH AS A SEWER LINE, EXCEPT UNDER
- SPECIAL CIRCUMSTANCES AND THEN ONLY UNDER THE FOLLOWING RULES: 6.1. IF NECESSARY PERMISSION SHALL BE OBTAINED FROM THE MUNICIPALITY IN WRITING PRIOR TO BEGINNING CONSTRUCTION.
- 6.2. THE BOTTOM OF A WATER LINE SHALL BE INSTALLED ON A SHELF A MINIMUM OF 18 INCHES ABOVE THE TOP OF THE SEWER AND 18 INCHES HORIZONTALLY AWAY FROM THE EDGE OF
- ALL PIPE CONNECTION OPENINGS SHALL BE PRECAST WITH RESILIENT RUBBER WATER-TIGHT SLEEVES. THE BOTTOM OF THE MANHOLE SHALL HAVE A CONCRETE BENCH POURED TO
- FRAMES AND LIDS: ALL SANITARY SEWER MANHOLE FRAMES AND LIDS SHALL BE PER DETAIL SHEET, UNLESS OTHERWISE NOTED ON THE PLANS AND DETAILS. THE LIDS SHALL HAVE RECESSEI (CONCEALED) PICK HOLE AND BE SELF-SEALING WITH AN "O" RING GASKET. THE JOINTS BETWEEN 7 THE FRAME AND CONCRETE SECTION SHALL BE SEALED WITH A BUTYL ROPE.
- A MAXIMUM OF TWELVE (12) INCHES OF CONCRETE-ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS. RINGS SHALL BE SEALED TOGETHER WITH BUTYL ROPE.
- TESTING: DEFLECTION, AIR, AND LEAKAGE TESTING WILL BE REQUIRED. THE PROCEDURE AND ALLOWABLE TESTING LIMITS SHALL BE IN ACCORDANCE WITH THE TEN STATE STANDARDS AND

D. CLEANING: ALL MANHOLES AND PIPES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS,

AND ALL VISIBLE LEAKAGE ELIMINATED, BEFORE FINAL INSPECTION AND ACCEPTANCE.

- 11.1. 327 IAC 3—6—19 states that (a) A deflection test shall be performed on each flexible pipe following the elapse of thirty (30) days after the placement of the final backfill; (b) No pipe shall exceed a deflection of five percent (5%) or greater; (c) The diameter of the rigid ball or mandrel used for a deflection test shall be no less than ninety-five (95%) of the base inside diameter of the pipe to be tested dependent on what is specified in the corresponding ASTM standard. The best shall not be performed with the aid of a
- mechanical pulling device. 11.2. 327 IAC 3-6-19 (d) All gravity sewer pipe shall be tested using one of the following leakage test types: (1) A hydrostatic test shall be performed with a minimum of two feet of positive head. The rate of exfiltration or infiltration shall not exceed two hundred (200) gallons per inch of pipe diameter per linear mile per day; (2) An air test shall conform to one of the following methods: ASTM C828-90, ASTM C924, or ASTM F1417-92.
- 2. TESTING THE ALIGNMENT/STRAIGHTNESS SHALL BE IN ACCORDANCE WITH MUNICIPAL STANDARDS. 3. TELEVISING: IF REQUIRED BY THE MUNICIPALITY, ALL SANITARY SEWERS SHALL BE TELEVISED, AND A COPY OF THE TAPE AND A WRITTEN REPORT SHALL BE SUBMITTED AND REVIEWED BY THE MUNICIPALITY BEFORE FINAL ACCEPTANCE. THE REPORT SHALL INCLUDE STUB LOCATION AS WELL AS A DESCRIPTION OF ALL DEFECTS, WATER LEVEL, LEAKS, AND LENGTHS. IDENTIFY MANHOLE TO MANHOLE BOTH VERBALLY AND ON-SCREEN USING MANHOLE NUMBERS FROM APPROVED PLANS.
- ORDER OF WRITTEN REPORT SHALL BE THE SAME AS THE VIDEOTAPES. 4. TEST RESULTS: IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE CAUSE OR CAUSES OF THE DEFECT AND REPAIR, OR REPLACE ALL MATERIALS AND WORKMANSHIP, AS MAY BE NECESSARY TO COMPLY WITH THE TEST REQUIREMENTS.
- . CERTIFICATION: CONTRACTOR SHALL SUBMIT CERTIFIED COPIES OF ALL REPORTS OF TESTS CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE INSTALLATION OF PVC PLASTIC PIF TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD METHOD OF TEST FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING." ASTM STANDARDS D-2241, AS APPROPRIATE FOR THE PIPE, TO BE USED. TESTS SHALL ALSO BE CONDUCTED TO DEMONSTRATE JOINT PERFORMANCE AT FIVE (5) PERCENT MAXIMUM DIAMETRIC DEFLECTION OF
- 16. IF CONFLICT ARISES BETWEEN MUNICIPAL STANDARDS AND SANITARY SEWER NOTES, THE MORE STRINGENT SHALL APPLY.
- ALL SANITARY SEWER LINES SHALL BE PVC MEETING ASTM D-3034 STANDARDS AND JOINTS MEETING ASTM D-3212. ALL SANITARY MANHOLES TO BE CONCRETE AND MEET MANHOLE DESIGN SPECIFICATION OF ASTM C-478 AND JOINT SPECIFICATIONS OF ASTM C-443.

STORM SEWER NOTES

AREA IS FINAL GRADED OR PAVED.

AND MANHOLES.

INSPECTION AND TESTING.

- STORM SEWER PIPE: ALL STORM SEWER PIPE SHALL BE RCP, UNLESS OTHERWISE NOTED ON THE PLANS. IN ACCORDANCE WITH THE FOLLOWING:
- RCP REINFORCED CONCRETE PIPE (ASTM C-76) PVC SDR-35, ASTM D-3034 REFER TO PLANS FOR PIPE SIZES.

FOR COVER GREATER THAN 3' BUT LESS THAN 9', USE CLASS II CONCRETE PIPE, FOR COVER

- BETWEEN 9'-13', USE CLASS III CONCRETE PIPE. FOR PIPE SIZES GREATER THAN 54" WITH THAN 13', USE CLASS III CONCRETE PIPE.
- BAND-SEAL OR SIMILAR COUPLING SHALL BE USED WHEN JOINING STORM SEWER PIPES OF DISSIMILAR MATERIALS. ALL FOOTING DRAIN DISCHARGE PIPES AND DOWN SPOUTS SHALL DISCHARGE TO THE GROUND/STORM SEWER SYSTEM.
- MAINTAIN LINE AND GRADE COVER: THE CONTRACTOR SHALL MAINTAIN AT LEAST TWO (2) FEET OF COVER OVER THE TOP OF SHALLOW PIPES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL MOUND OVER ANY PIPES THAT HAVE LESS THAN TWO (2) FEET OF COVER DURING CONSTRUCTION UNTIL THE
- STRUCTURES: MANHOLE, CATCH BASIN, AND INLET BOTTOMS SHALL BE PRECAST CONCRETE SECTIONAL UNITS OR MONOLITHIC CONCRETE. MANHOLES AND CATCH BASINS SHALL BE A MINIMUM OF FOUR (4) FEET IN DIAMETER UNLESS OTHERWISE SPECIFIED ON THE PLANS. STRUCTURE JOINTS SHALL BE SEALED WITH "O" RING OR BUTYL ROPE. A MAXIMUM OF TWELVE
- (12) INCHES OF ADJUSTING RINGS SHALL BE USED. A CONCRETE BENCH TO DIRECT FLOWS SHALL BE CONSTRUCTED IN THE BOTTOM OF ALL INLETS
- THE FRAME, GRATE, AND/OR CLOSED LID SHALL BE CAST IRON OF THE STYLE SHOWN ON THE CLEANING: THE STORM SEWER SYSTEM SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL
- . MANHOLES, CATCH BASINS, INLETS, FRAMES, GRATES, AND OTHER STRUCTURES SHALL BE CONSTRUCTED OF THE TYPE, STYLE, AND SIZE AS SET FORTH WITH THE ORDINANCES AND STANDARDS OF THE MUNICIPALITY.

ARISE BETWEEN MUNICIPAL CODE AND GENERAL NOTES, THE MORE STRINGENT SHALL TAKE

. WHEN NOTED ON PLANS OR APPROVED BY ENGINEER, HIGH-DENSITY POLYETHYLENE PIPE (HDPE) IN GENERAL CONFORMANCE WITH ASTM F2648 / F2648M MAY BE UTILIZED.

WATERMAIN NOTES

- ALL WATER LINE MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE MUNICIPALITY UTILITIES DEPARTMENT.
 - PIPE MATERIALS: WATERMAINS SHALL BE CONSTRUCTED OF AWWA C900 OR AWWA C905 PLASTIC PIPE AND SHALL BE CLASS 150 UNLESS OTHERWISE INDICATED ON THE PLANS. ONE COUPLING WITH TWO RUBBER GASKETS SHALL BE FURNISHED WITH EACH LENGTH OF PIPE. IT
- CONFORM TO ASTM D3139. RUBBER GASKETS SHALL CONFORM TO ASTM F477. TESTING OF THE PIPE AND COUPLINGS SHALL BE MADE IN ACCORDANCE WITH AWWA C900. REGARDLESS OF THE PLACE OF MANUFACTURE, ALL PIPE SHALL BE TESTED WITHIN THE
- CONTINENTAL UNITED STATES. PRESSURE RATING: THE PIPE SHALL BE DR 14 FOR FIRE PROTECTION MAINS AND DR 18 FOR WATER MAINS.

SHALL BE THE SAME MATERIAL AND BY THE SAME MANUFACTURER AS THE PIPE AND

- JOINTS: JOINTS SHALL BE BELL END OR COUPLING PUSH-ON TYPE. THE PUSH-ON JOINT AND JOINT COMPONENTS SHALL MEET THE REQUIREMENTS FOR ASTM D-3139, JOINT FOR PLASTIC PRESSURE PIPE, USING FLEXIBLE ELASTOMERIC SEALS. THE JOINT SHALL BE DESIGNED SO AS TO PROVIDE FOR THE THERMAL EXPANSION AND CONTRACTION EXPERIENCED WITH A TOTAL TEMPERATURE CHANGE OF 75 DEGREES F IN EACH JOINT OF PIPE. THE LUBRICANT SHALL HAVE NO DETERIORATING EFFECTS ON THE GASKET OR THE PIPE. GASKETS SHALL MEET ALL APPLICABLE REQUIREMENTS OF ANSI STANDARD A21.11.
- FITTINGS: ALL FITTINGS SHALL BE OF DUCTILE IRON WITH GASKETS, GLANDS AND T-HEAD BOLTS WITH NUTS. DUCTILE IRON FITTINGS SHALL CONFORM TO ANSI/AWWA C110/A21.10, 350 POUNDS PER SQUARE INCH (PSI) PRESSURE RATING REQUIREMENTS. ALL FITTINGS SHALL BE CEMENT MORTAR LINED CONFORMING TO ANSI/AWWA C104/A21.4 AND SHALL BE COATED OUTSIDE WITH A BITUMINOUS COATING OR FUSION-BONDED EPOXY. FITTINGS SHALL HAVE DISTINCTLY CAST INTO THE PIPE EXTERIOR THE PRESSURE RATING AND LETTERS "DI" OR "DUCTILE". ALL DUCTILE IRON FITTINGS ACCEPTABLE TO THE UTILITY SHALL BE RATED AT A MINIMUM OF 70-50-05 (KSI TENSILE STRENCHT-KSI YIELD STRENGTH-PERCENT ELONGATION), IN ACCORDANCE WITH`
- FITTING JOINTS SHALL BE OF THE STANDARD MECHANICAL JOINT TYPE CONFORMING TO ANSI/AWW C111/A21.11 OR PUSH JOINT TYPE CONFORMING TO ANSI/AWWA C111/A21.11. ALL GASKETS, GLANDS AND T-HEAD BOLTS SHALL BE IN ACCORDANCE WITH AWWA C111/A21.11.

ANSI/AWWA C110 STANDARDS REGARDING STRENGTH OF MATERIALS.

- POLYETHYLENE ENCASEMENT: HIGH DENSITY CROSS-LAMINATED POLYETHYLENE ENCASEMENT MATERIALS SHALL BE USED FOR DUCTILE IRON PIPE AND FITTINGS. THE HIGH DENSITY CROSS-LAMINATED POLYETHYLENE TUBE MATERIAL SHALL CONFORM TO ANSI/AWWA C105 WITH A MINIMUM THICKNESS OF 4 MILS.
- VALVES: GATE VALVES SHALL BE USED ON ALL WATERMAINS. ALL VALVES SHALL TURN COUNTER-CLOCKWISE TO OPEN. VALVES SHALL BE IRON BODY RESILIENT WEDGE GATE VALVES WITH BRONZE-MOUNTED SEATS AND NON-RISING STEMS CONFORMING TO AWWA C-509. THE VALVES SHALL HAVE MECHANICAL JOINTS.
- WHERE WATERMAINS AND SERVICES CROSS PROPOSED OR EXISTING STREETS, BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL EXTENDING AT LEAST 5 FEET BEYOND THE BACK OF CURB OR
- THE BREAK FLANGE AND ALL BELOW-GRADE FITTING SHALL HAVE STAINLESS STEEL NUTS AND CORPORATION STOPS: CORPORATION STOPS SHALL BE BRONZE BODY KEY STOPS CONFORMING TO

TO THE AUXILIARY VALVE AND BETWEEN THE AUXILIARY VALVE AND THE HYDRANT BARREL.

PROVIDE AND INSTALL FOUR MEGALUG JOINT RESTRAINTS AT EACH JOINT FROM THE MAINLINE TEE

- AWWA C-800 AND SHALL INCLUDE "J" BEND, TAILPIECE, AND COMPRESSION FITTINGS. SIZE AND LOCATION AS SHOWN ON THE PLANS. MAXIMUM DEFLECTION AT PIPE JOINTS SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURER'S
- BEDDING: ALL WATERMAINS SHALL BE BEDDED ON FIRM GROUND, WITH BELLHOLES EXCAVATED SO THAT THE PIPE HAS AN EVEN BEDDING FOR ITS ENTIRE LENGTH. GRANULAR BEDDING MATERIAL OR GRANULAR BACKFILL MATERIAL SHALL BE CAREFULLY PLACED

TO TWELVE (12) INCHES OVER THE TOP OF THE PIPE BEFORE FINAL BACKFILLING AND

- A MINIMUM DEPTH OF COVER OF FIFTY-FOUR (54) INCHES SHALL BE MAINTAINED OVER THE WATER LINES. THE MAXIMUM COVER SHALL BE SEVENTY-TWO (72) INCHES, EXCEPT AT SPECIAL
- "MEGA-LUG" RETAINER GLANDS AND THRUST BLOCKING SHALL BE INSTALLED ON WATERMAINS AT ALL BENDS, FITTINGS, TEES, ELBOWS, ETC. "MEGA-LUG" RESTRAINED JOINTS ARE REQUIRED ON ALL VALVES AND ALL FITTINGS.
- HORIZONTAL SEPARATION WATERMAINS SHALL BE LAID AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR

PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, OR SEWER SERVICES CONNECTION.

19.2. WATERMAINS MAY BE LAID CLOSER THAN TEN (10) FEET TO A SEWER LINE WHEN: 19.2.1. LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN (10) FEET;

19.2.2. THE WATERMAIN INVERT IS AT LEAST EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE

UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER. 19.3. BOTH THE WATERMAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION WHEN IT IS IMPOSSIBLE TO MEET (1) OR (2)

ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE-TESTED TO THE MAXIMUM EXPECTED

SURCHARGE HEAD BEFORE BACKFILLING. VERTICAL SEPARATION

WATERMAIN STANDARDS OF CONSTRUCTION WHEN:

SEWER;

CURRENT RECOMMENDATIONS AND AWWA SPECIFICATIONS.

- FOR PIPE SIZES 12" TO 54" WITH COVER BETWEEN 1'-3', USE SEWER CLASS III CONCRETE PIPE. | 20.1. ALL SERVICE PIPES SHALL BE BURIED AT LEAST FIFTY-FOUR (54) INCHES DEEP IN THE COVER BETWEEN 1'-9', USE CLASS II CONCRETE PIPE. FOR COVER GREATER THAN 9' BUT LESS | 20.2. A WATERMAIN SHALL BE LAID SO THAT ITS INVERT IS EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATERMAINS CROSS STORM SEWERS, SANITARY SEWERS, OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATERMAIN LOCATED WITHIN TEN (10) FEET
 - HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATERMAIN PIPE SHALL B CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER

20.3. BOTH THE WATERMAINS AND SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO

- 20.3.1. IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION, AS DESCRIBED IN (1) 20.3.2. OR THE WATERMAIN PASSES UNDER A SEWER OR DRAIN.
- 20.4. A VERTICAL SEPARATION OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATERMAIN SHALL BE MAINTAINED WHERE A WATERMAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATERMAIN.

FROM THE WATERMAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN (10) FEET.

20.5. CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE

ALL WATERMAINS SHALL BE PRESSURE-TESTED FOR A MIN. OF 2 HOURS AT 150 PSI, FLUSHED,

- AND DISINFECTED IN ACCORDANCE WITH AWWA AND MUNICIPAL SPECIFICATIONS. EACH VALVE SECTION SHALL BE PRESSURE-TESTED FOR A MINIMUM OF ONE (1) HOUR. ALLOWABLE LEAKAGE IS PER THE MUNICIPAL STANDARDS. AT NO TIME IS THERE TO BE ANY VISIBLE LEAKAGE FROM THE
- 22. IDEM WATERMAIN NOTES
- 22.1. ALL WATERLINES SHALL BE AWWA APPROVED. 22.2. THE NORMAL WORKING PRESSURE IN THE WATERLINES WILL NOT BE LESS THAN 35 PSI.
- ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE MUNICIPAL CODE. WHEN CONFLICTS | 22.3. INDIVIDUAL BOOSTER PUMPS WILL NOT BE ALLOWED FOR ANY INDIVIDUAL SERVICE. 22.4. ALL FIRE HYDRANTS SHALL BE AWWA APPROVED.

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



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KHA PROJECT NC

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SHEET NUMBER

DEMOLITION NOTES

GENERAL DEMOLITION NOTES

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.
- 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 BROJECT.
- 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 COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST FXACT FIFID 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 INDOT APPROVED TRAFFIC BARRICADES, BARRELS, AND/OR CONES. TEMPORARY SIGNAGE AND FLAGMEN MAY BE ALSO NECESSARY.
- 6. CONTRACTOR SHALL NOT DEMOLISH ANYTHING OUTSIDE THE OWNERS LEASE/PROPERTY LINE UNLESS SPECIFICALLY MENTIONED ON THIS
- 7. QUANTITIES DEPICTED ON THIS SHEET SHALL SERVE AS A GUIDE ONLY. CONTRACTOR TO VERIFY ALL DEMOLITION QUANTITIES.
- 8. PRIOR TO BIDDING AND CONSTRUCTION, CONTRACTOR TO REFER TO OWNER PROVIDED PHASE I ENVIRONMENTAL SITE ASSESSMENT AND ASBESTOS REPORT FOR SITE SPECIFIC CONDITIONS AND CONSIDERATIONS.
- 9. 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
- 10. EROSION CONTROL MUST BE ESTABLISHED PRIOR TO ANY WORK ON SITE INCLUDING DEMOLITION. REFER TO THE EROSION CONTROL SHEET.
- 1. REFER TO GEOTECHNICAL REPORT PROVIDED BY OTHERS FOR ALL SUBSURFACE INFORMATION.

DEMOLITION NOTES

THE EXTENT OF SITE DEMOLITION WORK IS AS SHOWN ON THE CONTRACT DOCUMENTS AND AS SPECIFIED HEREIN. SEE ARCHITECTURAL DRAWINGS FOR LIMITS AND PROPER DEMOLITION OF EXISTING BUILDING. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICE NECESSARY TO COMPLETE THE WORK. DEMOLITION INCLUDES, BUT IS NOT LIMITED TO, REMOVAL AND DISPOSAL OFFSITE OF THE FOLLOWING ITEMS:

- SIDEWALK AND ON-SITE PAVEMENT
- BUILDINGS, FOUNDATIONS, AND SUPPORTING WALLS AND SLABS
 DEBRIS AND FOUNDATIONS FROM ALL DEMOLISHED STRUCTURES
 ALL PAVEMENT TO BE REMOVED ADJACENT TO PAVEMENT THAT IS TO REMAIN SHALL BE SAWCUT FULL DEPTH AT THE EDGES PRIOR TO REMVAL TO OBTAIN A "CLEAN" JOINT WHERE IT ABUTS NEW CURB OR DAVEMENT.

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.

DISPOSAL OF DEMOLISHED MATERIALS

REMOVE FROM SITE DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. BURNING OF REMOVED MATERIALS FROM DEMOLISHED STRUCTURES WILL NOT BE PERMITTED ON SITE. TRANSPORT MATERIALS REMOVED FROM DEMOLISHED STRUCTURES AND DISPOSE OF OFF SITE IN A LEGAL MANNER.

LANDSCAPE PROTECTION AND REMOVAL

SEE LANDSCAPE PLANS FOR INFORMATION ON LANDSCAPE AND TREE PROTECTION, PRESERVATION AND REMOVAL.

UTILITY SERVICES

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 FLOWABLE FILL 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.

UTILITY PROTECTION

UNDERGROUND UTILITIES SHOWN ARE BASED ON ATLASES AND AVAILABLE INFORMATION PRESENTED AT THE TIME OF SURVEY. CONTRACTOR SHOULD CALL INDIANA 811 (811 OR 800–382–5544) 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.

POLLUTION CONTROLS

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.

FILLING BASEMENTS AND VOIDS

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 INDOT APPROVED CRUSHED LIMESTONE 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.

SITE NOTES

- 1. ALL DIMENSIONS REFER TO THE FACE OF CURB UNLESS OTHERWISE
- 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, DOOR LOCATIONS, PRIOR TO ORDERING MATERIALS.

 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.

EROSION CONTROL NOTES

TEMPORARY EROSION CONTROL NOTES

- THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
- 2. 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 REQUIRE BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES AT NO ADDITIONAL COST TO THE OWNER.
- 3. CONTRACTOR SHALL PLACE EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S150 OR APPROVED EQUAL) ON ALL SITE AREAS WITH SLOPES GREATER THAN 4:1, AND IN THE BOTTOM AND SIDE SLOPES OF ALL SWALES.
- 4. 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
- 5. PERMANENT, FINAL PLANT COVERING OR STRUCTURES SHALL BE INSTALLED PRIOR TO FINAL ACCEPTANCE.
- 6. 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 OF AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
- 7. 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.
- 8. 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.
- 9. SURFACE WATERS, DRAINAGE DITCHES AND CONVEYANCE SYSTEMS MUST BE INSPECTED FOR SEDIMENT DEPOSITS.
- O. PUMPING SEDIMENT LADEN WATER INTO ANY STORMWATER FACILITY THAT IS NOT DESIGNATED TO BE A SEDIMENT TRAP, DRAINAGEWAY, OF OFFSITE AREA EITHER DIRECTLY OR INDIRECTLY WITHOUT FILTRATION IS PROHIBITED.
- 11. 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.
- 12. 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.
- 13. ALL TEMPORARY SESC MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED.TRAPPED SEDIMENT AND OTHE DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
- 4. 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.

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 EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
- 3. ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE OR EDGE OF PAVEMENT 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.
- 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 UNLESS OTHERWISE NOTED.
- 7. WHEN NATURAL FLOW OF DRAINAGE IS AWAY FROM CURB, CONTRACTOR TO INSTALL REVERSE GUTTER PITCH.
- 8. MATCH EXISTING ELEVATIONS AT THE PROPERTY LIMITS.
- 9. ALL STOOPS OR PEDESTRIAN EGRESS POINTS FROM THE BUILDING(S) SHALL BE NO GREATER THAN 2% FOR THE FIRST 5'.

UTILITY NOTES

GENERAL UTILITY NOTES

- 1. ALL WATER LINES SHALL BE PVC C900 DR-14 OR DUCTILE IRON CL
- 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 36" MINIMUM COVER (PER IDEM).
- 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 INDIANA 811 (811 OR 800-382-5544) TO COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE ORDERING MATERIALS OR COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
- 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
- 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 AN OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITE 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

14. STORMWATER FACILITIES MUST BE FUNCTIONAL BEFORE BUILDING CONSTRUCTION BEGINS.



EXISTING LEGEND

STORM INLET

CURB INLET

S SANITARY SEWER MANHOLE (SSMH)

TRAFFIC SIGNAL POLE

TELEPHONE MANHOLE (TMH)

RICHT OF WAY MONUMENT

MAILBOX

MONITOR WELL

ROW RIGHT OF WAY MONUMENT

WATER VALVE

POWER POLE

● POWER METER▼ TELEPHONE BOX/PEDESTAL

(E) ELECTRICAL MANHOLE

BENCHMARKS

(LOCATIONS SHOWN ON SURVEY)
BENCHMARK INFORMATION (NAVD 88 DATUM)

BENCHMARK ELEVATIONS WERE ESTABLISHED FROM GPS OBSERVATIONS ON THE IDENTIFIED BASE STATION DESCRIBED WITHIN. AN NGS OPUS SOLUTION (FILE #0229217I) WAS OBTAINED AND USED TO CONTROL THE PROJECT'S VERTICAL DATUM. THE ELEVATIONS WERE THEN TRANSFERRED TO THE SITE USING DIFFERENTIAL LEVELING.

TBM #80 TOP OF CUT "X" SET ON EAST MOST BONNET BOLT ONT HE TOP FLANGE OF A FIRE HYDRANT LOCATED 10' \pm WEST OF CR 225 EAST AND OFFSITE IMPACT CHRISTIAN CHURCH. ELEV: 761.30'

TBM #81
TOP OF MAG SPIKE SET 1' UP ON THE NORTH SIDE OF COMBINATION
POLE LOCATED 5'± SOUTH OF CR 300 NORTH AT THE CENTERLINE OF
SITE (POLE #817003).
ELEV: 768.00'

TOP OF MAG SPIKE SET 1' UP ON THE WEST SIDE OF WOOD FENCE POST LOCATED 5'± EAST OF CR 225 EAST AND DRIVEWAY ON CORNER. ELEV: 761.54'

Kimley» Ho
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DESIGNED BY: CDC ©2022 KIMLEY-DRAWN BY: KGP 250 EAST 96' INDIANAPOLIS, INDIANAPOLIS, PHONE: 317-CHECKED BY: BAS WWW.KIMLEY-H





NERAL NOTE

OLD SUMMIT RANKLIN, IN

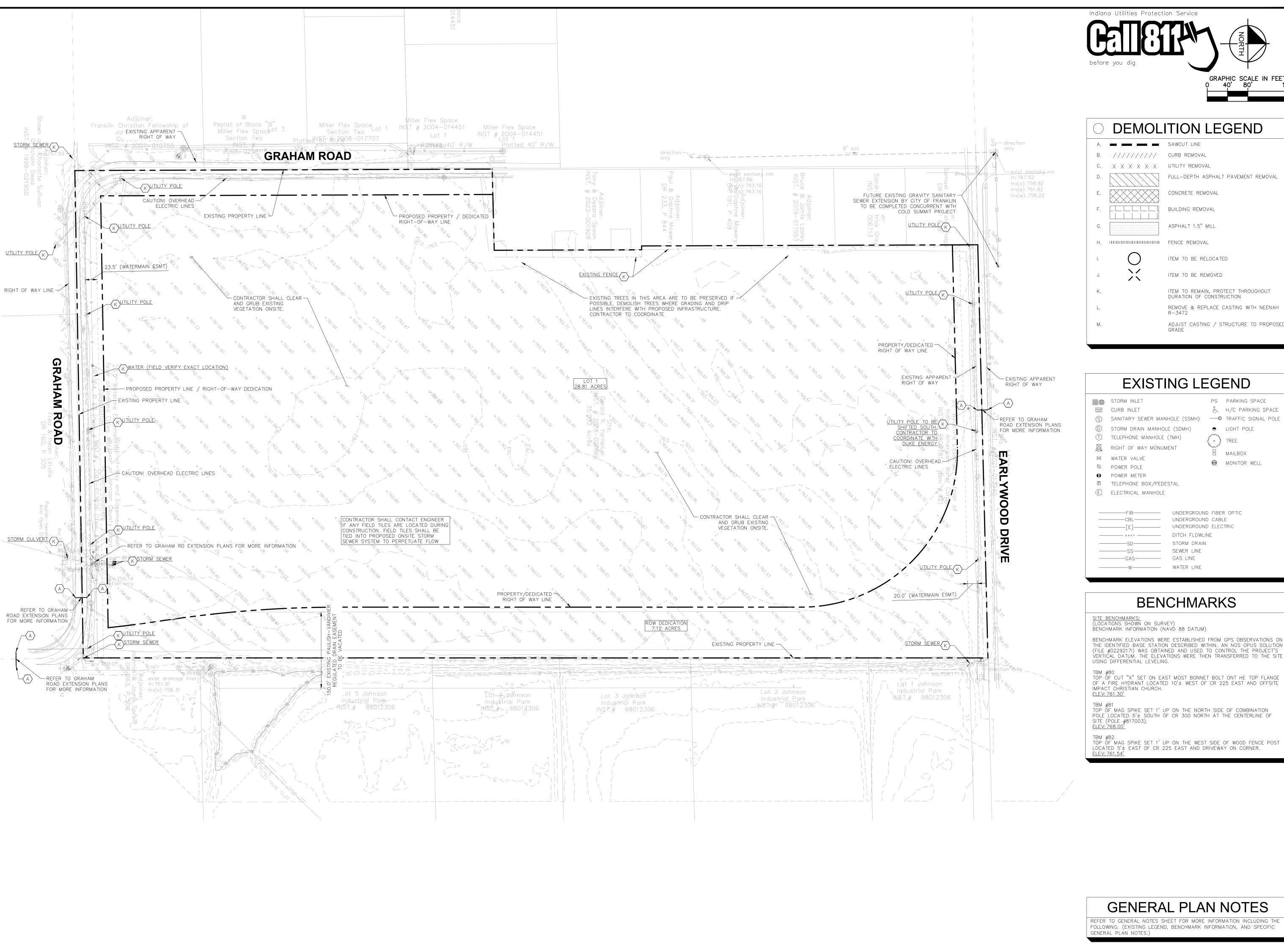
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SHEET NUMBER

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DEMOLITION LEGEND $\cdot \times \cdot \times \cdot \times \cdot \times \cdot \times \cdot \times \cdot = \mathsf{UTILITY} \mathsf{REMOVAL}$ FULL-DEPTH ASPHALT PAVEMENT REMOVAL CONCRETE REMOVAL BUILDING REMOVAL ASPHALT 1.5" MILL H. IIIIIIIIIIIIIIIIII FENCE REMOVAL

ITEM TO BE RELOCATED ITEM TO BE REMOVED

ITEM TO REMAIN, PROTECT THROUGHOUT DURATION OF CONSTRUCTION REMOVE & REPLACE CASTING WITH NEENAH

ADJUST CASTING / STRUCTURE TO PROPOSED

EXISTING LEGEND

PS PARKING SPACE と H/C PARKING SPACE S) SANITARY SEWER MANHOLE (SSMH) → TRAFFIC SIGNAL POLE D STORM DRAIN MANHOLE (SDMH) LIGHT POLE

(°) TREE

■ MAILBOX

MONITOR WELL

T TELEPHONE MANHOLE (TMH) RIGHT OF WAY MONUMENT

TELEPHONE BOX/PEDESTAL

UNDERGROUND CABLE UNDERGROUND ELECTRIC DITCH FLOWLINE ----SD----STORM DRAIN SEWER LINE

BENCHMARKS

BENCHMARK ELEVATIONS WERE ESTABLISHED FROM GPS OBSERVATIONS ON THE IDENTIFIED BASE STATION DESCRIBED WITHIN. AN NGS OPUS SOLUTION (FILE #02292171) WAS OBTAINED AND USED TO CONTROL THE PROJECT'S VERTICAL DATUM. THE ELEVATIONS WERE THEN TRANSFERRED TO THE SITE

TOP OF CUT "X" SET ON EAST MOST BONNET BOLT ONT HE TOP FLANGE OF A FIRE HYDRANT LOCATED 10'± WEST OF CR 225 EAST AND OFFSITE

TOP OF MAG SPIKE SET 1' UP ON THE NORTH SIDE OF COMBINATION POLE LOCATED 5'± SOUTH OF CR 300 NORTH AT THE CENTERLINE OF SITE (POLE #817003).

ELEV: 768.00'

TBM #82
TOP OF MAG SPIKE SET 1' UP ON THE WEST SIDE OF WOOD FENCE POST LOCATED 5'± EAST OF CR 225 EAST AND DRIVEWAY ON CORNER.

COLD SUMMIT FRANKLIN, IN

≫Horn

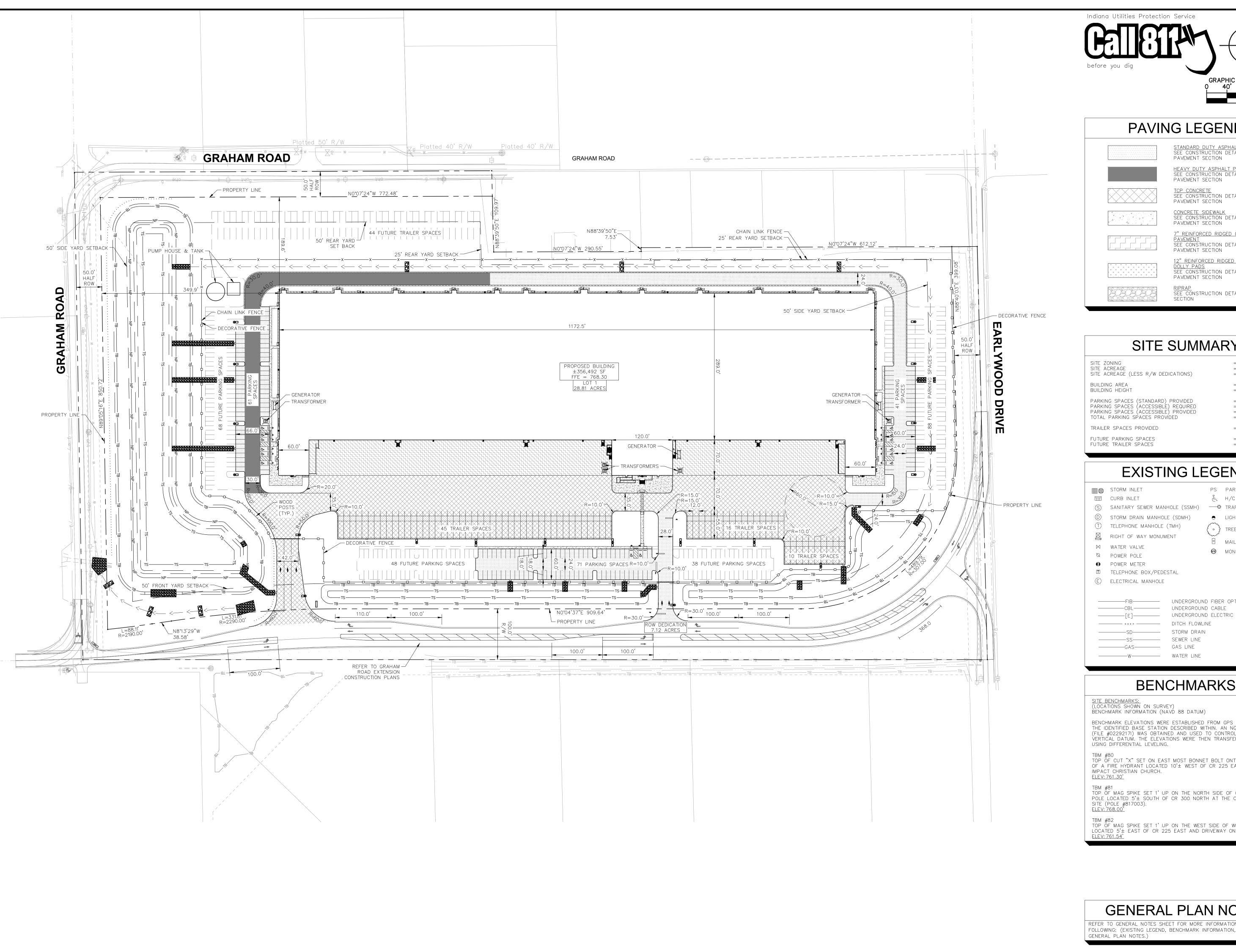
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11/3/2022 KHA PROJECT NO 170350000

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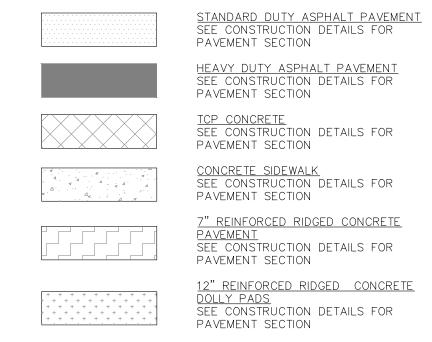
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PAVING LEGEND



RIPRAP
SEE CONSTRUCTION DETAILS FOR RIPRAP

SITE SUMMARY

SITE ZONING SITE ACREAGE SITE ACREAGE (LESS R/W DEDICATIONS)	= = =		.93 AC .16 AC	
BUILDING AREA BUILDING HEIGHT	= =	±350 ±48	6,492 SF '-0"	
PARKING SPACES (STANDARD) PROVIDED PARKING SPACES (ACCESSIBLE) REQUIRED PARKING SPACES (ACCESSIBLE) PROVIDED TOTAL PARKING SPACES PROVIDED	= = = =	6 14		
TRAILER SPACES PROVIDED	=	71	SPACES	
FUTURE PARKING SPACES FUTURE TRAILER SPACES	= =	242 56	SPACES SPACES	

EXISTING LEGEND

	STORM INLET	PS	PARKING SPACE
	CURB INLET	Ł	H/C PARKING SPACE
S	SANITARY SEWER MANHOLE (SSMH)	——◎	TRAFFIC SIGNAL POLE
	STORM DRAIN MANHOLE (SDMH)	•	LIGHT POLE
\bigcirc	TELEPHONE MANHOLE (TMH)	E	TREE
ROW	RIGHT OF WAY MONUMENT	گر _س ین [۵]	MAN DOV
\bowtie	WATER VALVE		MAILBOX
Ø	POWER POLE	(MW)	MONITOR WELL
€	POWER METER		
T	TELEPHONE BOX/PEDESTAL		
(E)	ELECTRICAL MANHOLE		
	FIB	ND FIBE	R OPTIC
	CBL UNDERGROUI	ND CABI	LE

BENCHMARKS

DITCH FLOWLINE STORM DRAIN

<u>site benchmarks:</u> (locations shown on survey) benchmark information (navd 88 datum)

BENCHMARK ELEVATIONS WERE ESTABLISHED FROM GPS OBSERVATIONS ON THE IDENTIFIED BASE STATION DESCRIBED WITHIN. AN NGS OPUS SOLUTION (FILE #02292171) WAS OBTAINED AND USED TO CONTROL THE PROJECT'S VERTICAL DATUM. THE ELEVATIONS WERE THEN TRANSFERRED TO THE SITE USING DIFFERENTIAL LEVELING.

TBM #80
TOP OF CUT "X" SET ON EAST MOST BONNET BOLT ONT HE TOP FLANGE
OF A FIRE HYDRANT LOCATED 10'± WEST OF CR 225 EAST AND OFFSITE

IMPACT CHRISTIAN CHURCH. ELEV: 761.30'

TOP OF MAG SPIKE SET 1' UP ON THE NORTH SIDE OF COMBINATION POLE LOCATED 5'± SOUTH OF CR 300 NORTH AT THE CENTERLINE OF SITE (POLE #817003).

ELEV: 768.00'

TBM #82 TOP OF MAG SPIKE SET 1' UP ON THE WEST SIDE OF WOOD FENCE POST LOCATED 5'± EAST OF CR 225 EAST AND DRIVEWAY ON CORNER. <u>ELEV: 761.54'</u>

GENERAL PLAN NOTES

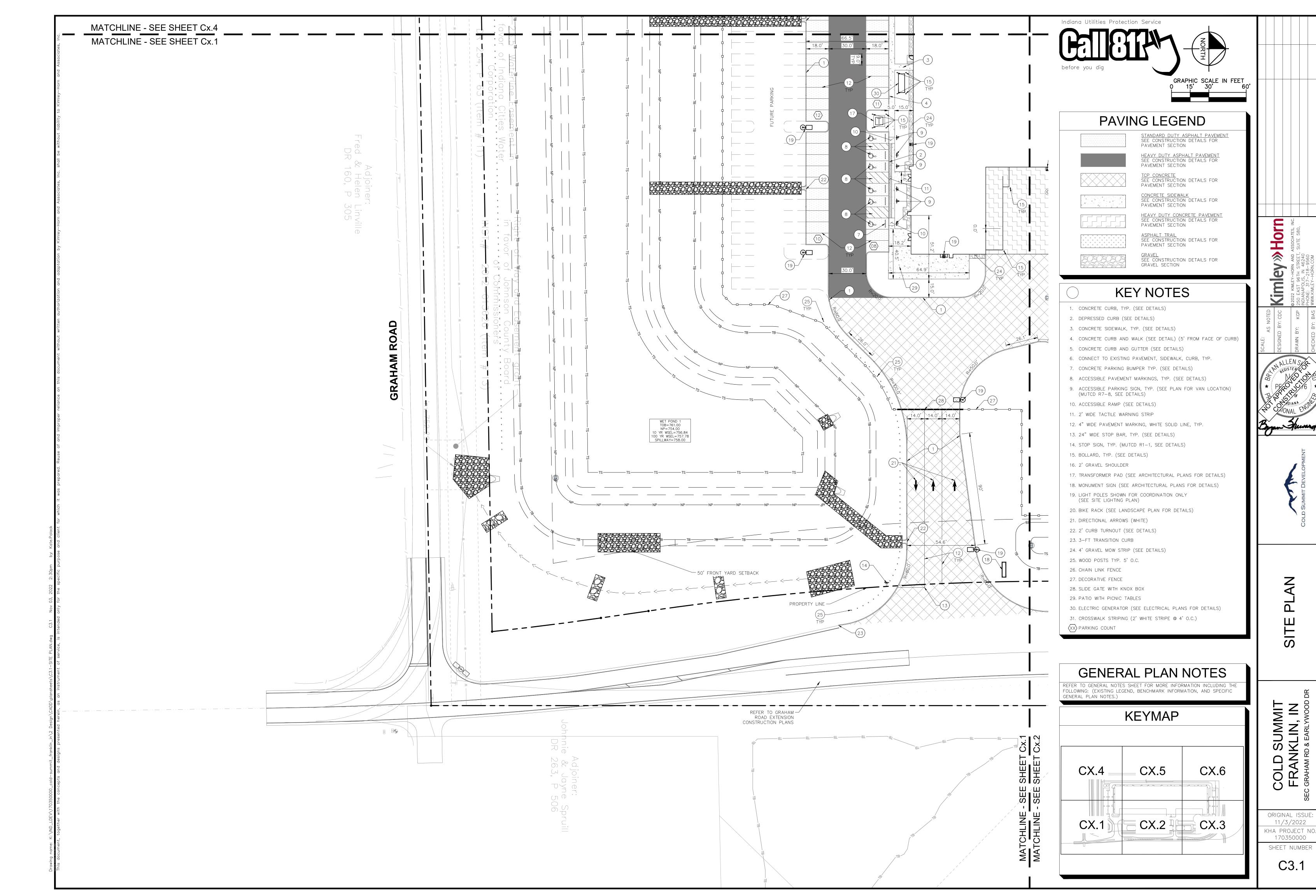
REFER TO GENERAL NOTES SHEET FOR MORE INFORMATION INCLUDING THE FOLLOWING: (EXISTING LEGEND, BENCHMARK INFORMATION, AND SPECIFIC

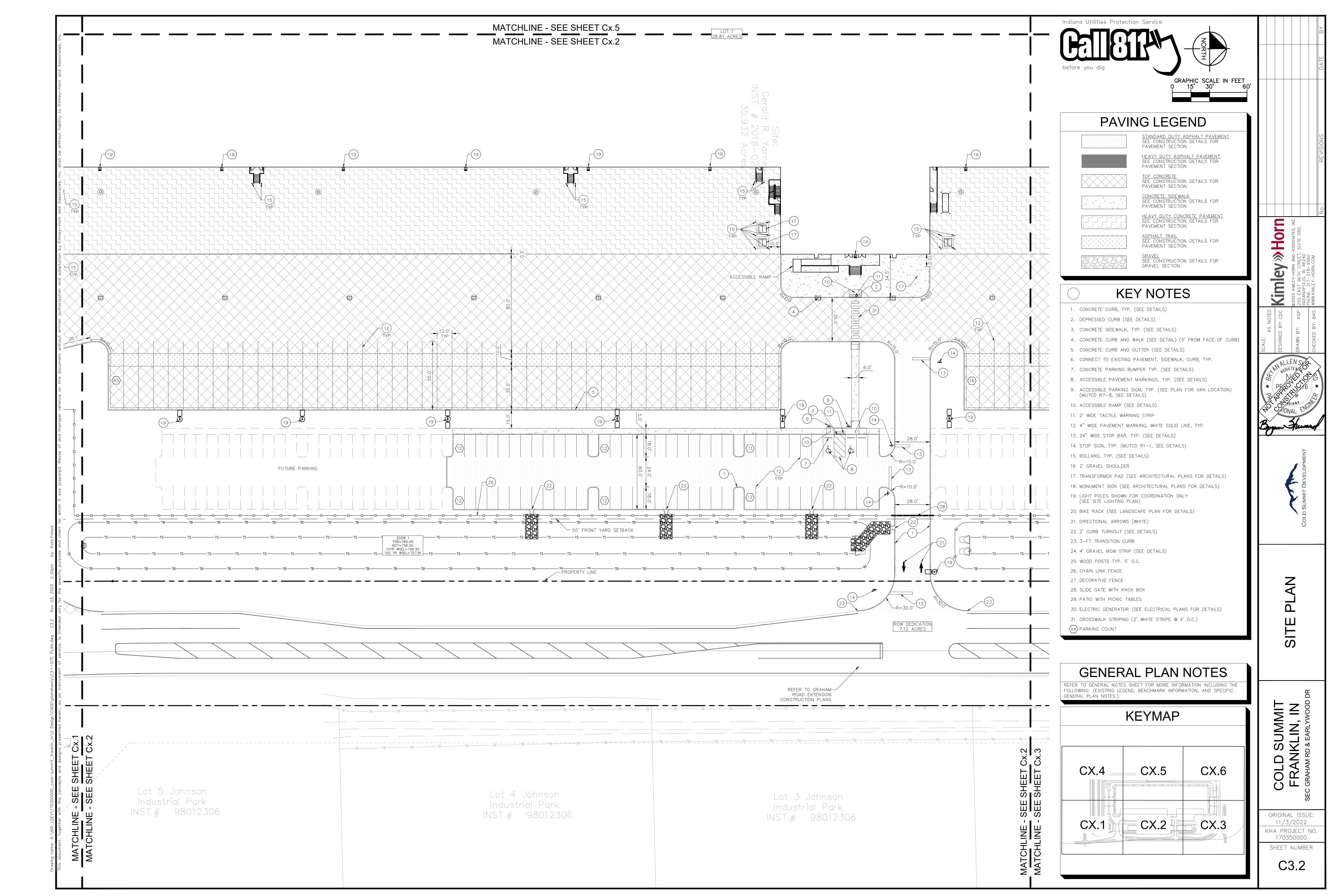
COLD SUMMIT FRANKLIN, IN ORIGINAL ISSUE: 11/3/2022

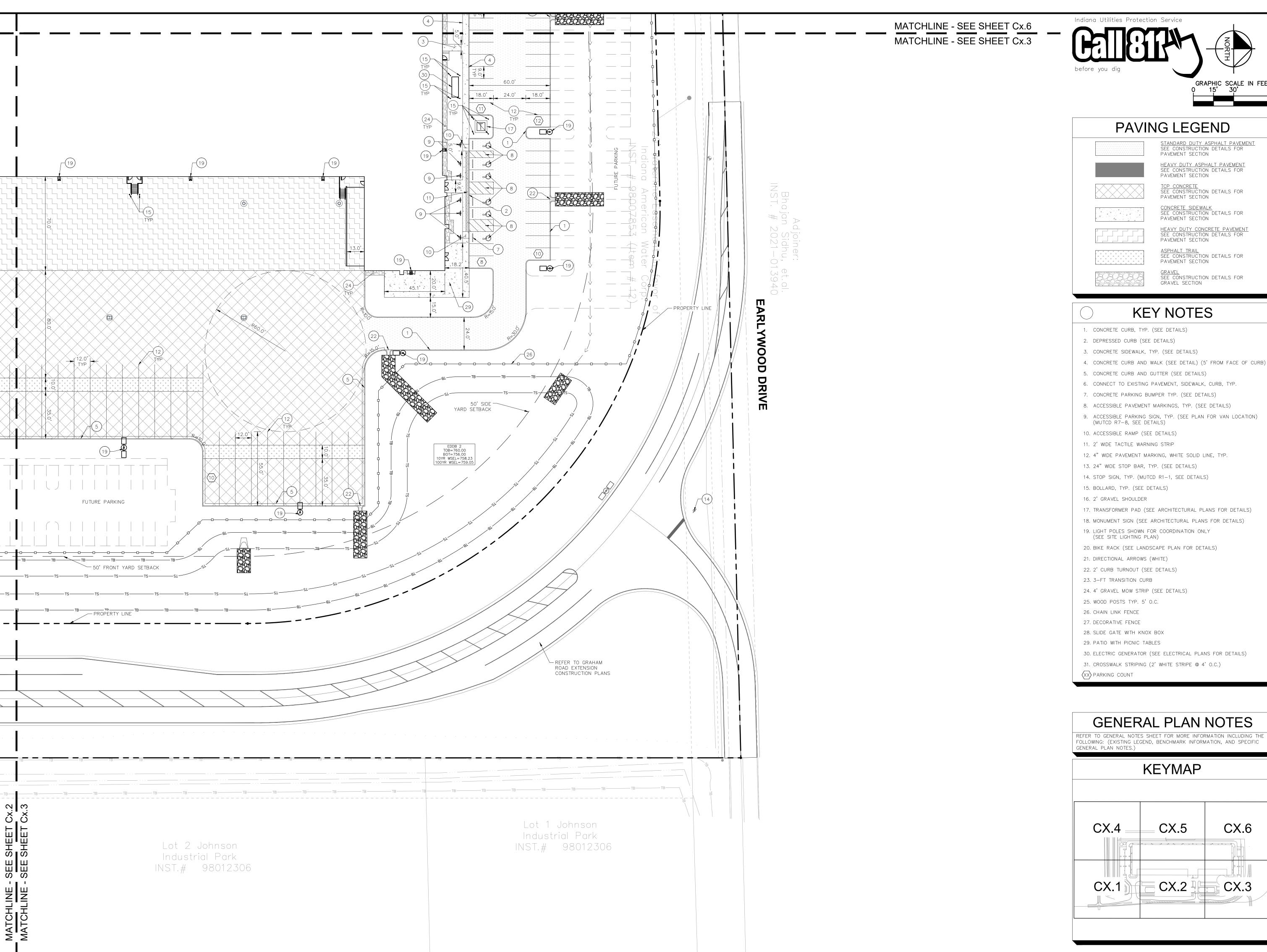
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PAVING LEGEND

STANDARD DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION HEAVY DUTY ASPHALT PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION

TCP CONCRETE
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION

CONCRETE SIDEWALK
SEE CONSTRUCTION DETAILS FOR
PAVEMENT SECTION

HEAVY DUTY CONCRETE PAVEMENT SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION

ASPHALT TRAIL
SEE CONSTRUCTION DETAILS FOR PAVEMENT SECTION

GRAVEL SEE CONSTRUCTION DETAILS FOR GRAVEL SECTION

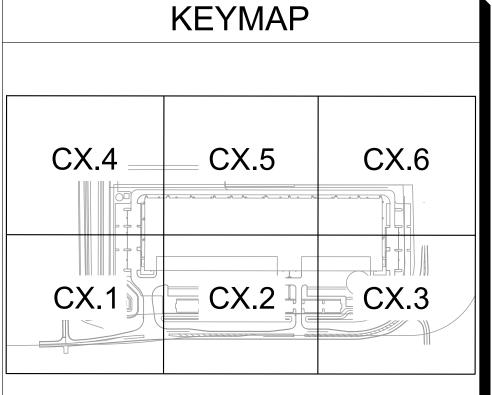
KEY NOTES

- 3. CONCRETE SIDEWALK, TYP. (SEE DETAILS)
- 4. CONCRETE CURB AND WALK (SEE DETAIL) (5' FROM FACE OF CURB)

- 9. ACCESSIBLE PARKING SIGN, TYP. (SEE PLAN FOR VAN LOCATION) (MUTCD R7-8, SEE DETAILS)

- 17. TRANSFORMER PAD (SEE ARCHITECTURAL PLANS FOR DETAILS)
- 18. MONUMENT SIGN (SEE ARCHITECTURAL PLANS FOR DETAILS)
- 20. BIKE RACK (SEE LANDSCAPE PLAN FOR DETAILS)
- 30. ELECTRIC GENERATOR (SEE ELECTRICAL PLANS FOR DETAILS)
- 31. CROSSWALK STRIPING (2' WHITE STRIPE @ 4' O.C.)

GENERAL PLAN NOTES



COLD SUMMIT FRANKLIN, IN

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