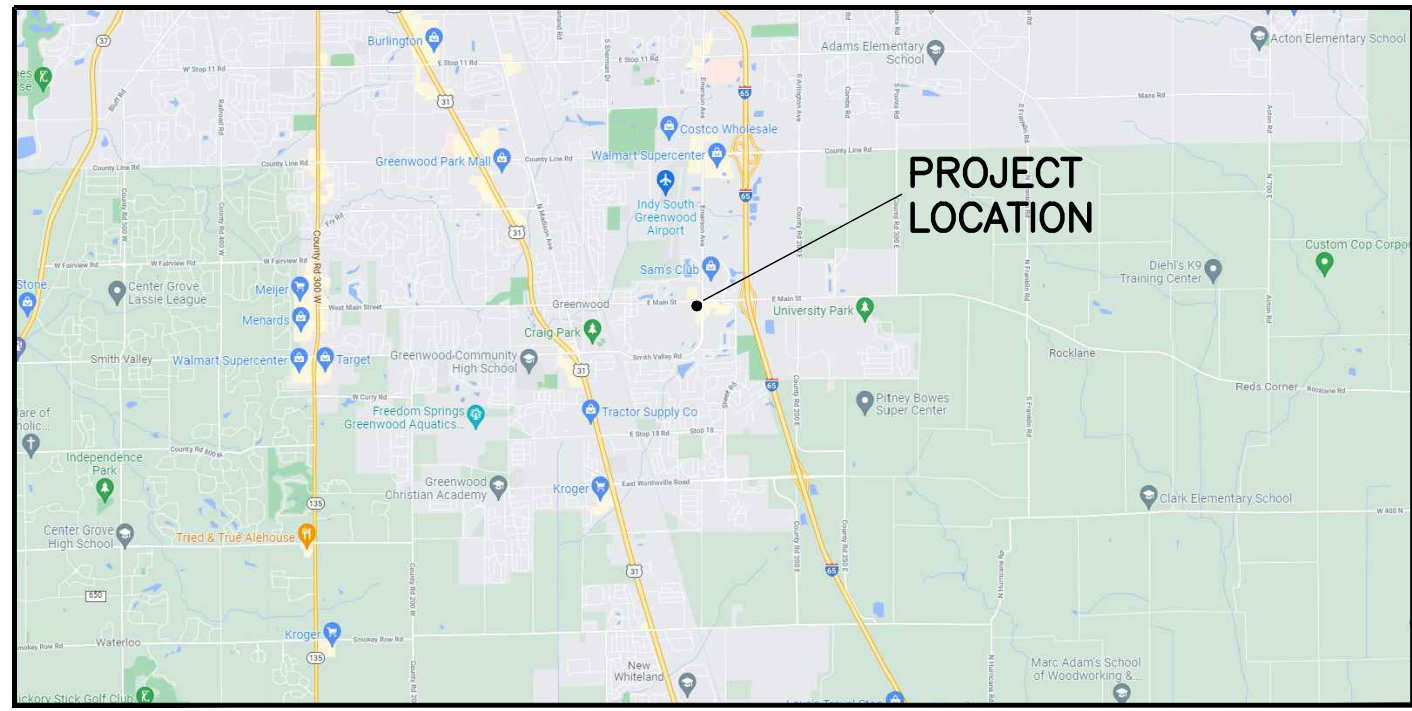
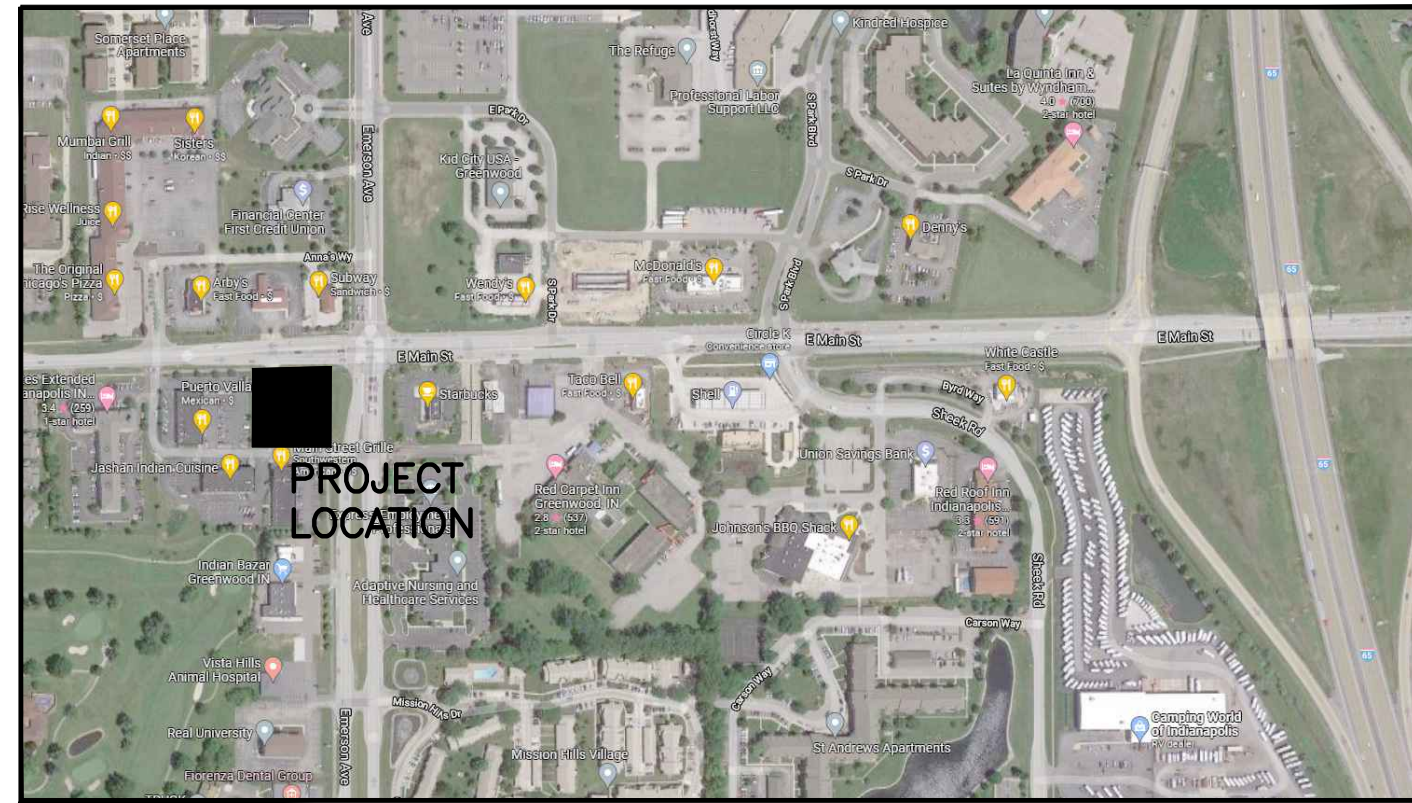
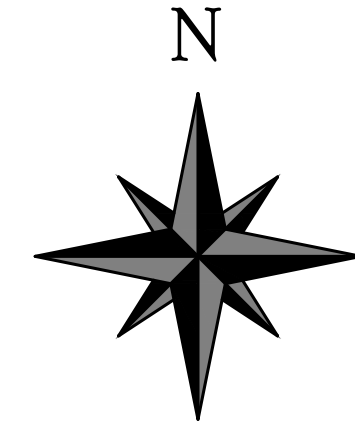




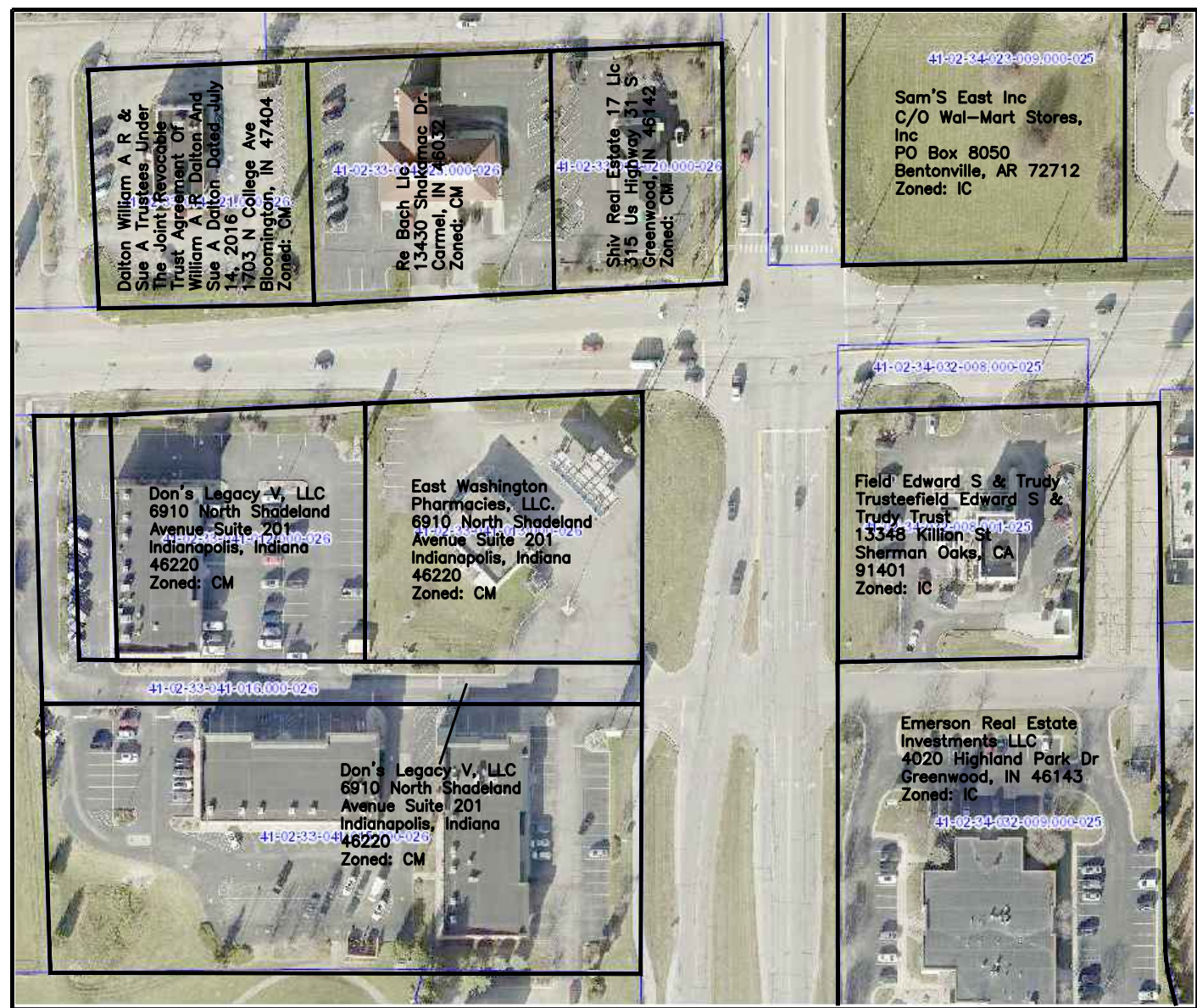
VICINITY MAP



LOCATION MAP



Site Renovations to: Village Pantry 899 East Main Street Greenwood, Indiana 46143



SURROUNDING PROPERTIES
INFORMATION MAP

UTILITY COMPANIES:

ELECTRICAL UTILITY:
DUKE ENERGY
2515 N. MORTON ST.
FRANKLIN, INDIANA
46131
PHONE: (800) 521-2232

WATER UTILITY:
INDIANA AMERICAN WATER COMPANY
555 E. COUNTY LINE ROAD, SUITE 201
GREENWOOD, INDIANA
46142
PHONE: (317) 881-0270

GAS UTILITY:
VECTREN GAS COMPANY
600 INDUSTRIAL DR.
FRANKLIN, INDIANA
46131
PHONE: (800) 227-1376

WASTE/SEWER UTILITY:
CITY OF GREENWOOD:
300 S. MADISON AVE.
GREENWOOD, INDIANA
46142
PHONE: (317) 887-5000

PRIMARY PROPERTY OWNER INFORMATION

East Washington Pharmacies, LLC. (Village Pantry property)
6910 North Shadeland Avenue Suite 201
Indianapolis, Indiana 46220
Phone: (317) 890-1714

SECONDARY PROPERTY OWNER INFORMATION

Don's Legacy V, LLC (Main Street Shops property)
6910 North Shadeland Avenue Suite 201
Indianapolis, Indiana 46220
Phone: (317) 890-1714

EXISTING BUILDING INFORMATION:

EX. OCCUPANCY GROUP: M — EX. CONSTRUCTION TYPE: II-B (NON-SPRINKLED)
EX. BUILDING INFORMATION — SQUARE FOOTAGE: 2996.0 SQ. FT.
EX. BUILDING DESIGNED TO MEET EARTHQUAKE ZONE ONE
EX. BUILDING MEETS ADA (AMERICAN DISABILITY ACT) STANDARDS
VILLAGE PANTRY TOTAL ACREAGE: 1.123± acres
ESTIMATED PROJECT START DATE: 07/15/2022 — COMPLETION DATE: 10/15/2022

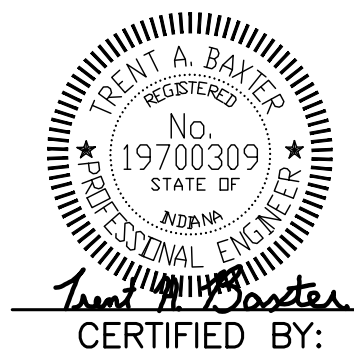
ENGINEERING AND CERTIFICATION:



VERSATILE
CONSTRUCTION
GROUP, LLC.

570 East Tracy Road, Suite 610
New Whiteland, Indiana 46184
Ph: 317.535.3579 Fax: 317.535.3581

PLANS CERTIFIED BY:
TRENT A. BAXTER P.E.
REGISTERED P.E. No. 19700309
DATE: JANUARY 04, 2022



Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
UmcD3	Urban land-Miami clay loam complex, 12 to 18 percent slopes, severely eroded	0.4	27.9%
YcIA	Crosby silt loam, fine-loamy subsoil-Urban land complex, 0 to 2 percent slopes	0.8	55.0%
YcmB2	Crosby-Urban land-Miami silt loams complex, 2 to 4 percent slopes, eroded	0.2	17.2%
Totals for Area of Interest		1.4	100.0%

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
T100	TITLE SHEET

CIVIL (SITE) PLANS

C100	SITE DEMOLITION PLAN
C200	SITE LAYOUT PLAN
C210	SITE PHOTOMETRIC PLAN
C220	SITE EASEMENT PLAN
C300	SITE LANDSCAPING PLAN
C400	SITE GRADING PLAN
C410	CITY OF GREENWOOD STORM DETAILS — SHEET 1
C420	CITY OF GREENWOOD STORM DETAILS — SHEET 2
C430	STORM SEWER PROFILE PLAN
C500	SITE EROSION CONTROL PLAN
C510	SITE EROSION CONTROL DETAILS
C520	SITE EROSION CONTROL DETAILS
C530	SITE EROSION CONTROL DETAILS
C600	GENERAL DETAILS
C610	GENERAL DETAILS
C700	GENERAL NOTES

CITY OF GREENWOOD STANDARD DETAIL DRAWINGS

1 of 3	ROADWAY DETAILS — SHEET 1
2 of 3	ROADWAY DETAILS — SHEET 2
3 of 3	ROADWAY DETAILS — SHEET 3
1 of 1	MISCELLANEOUS DETAILS

RESPONSIBILITY NOTES:

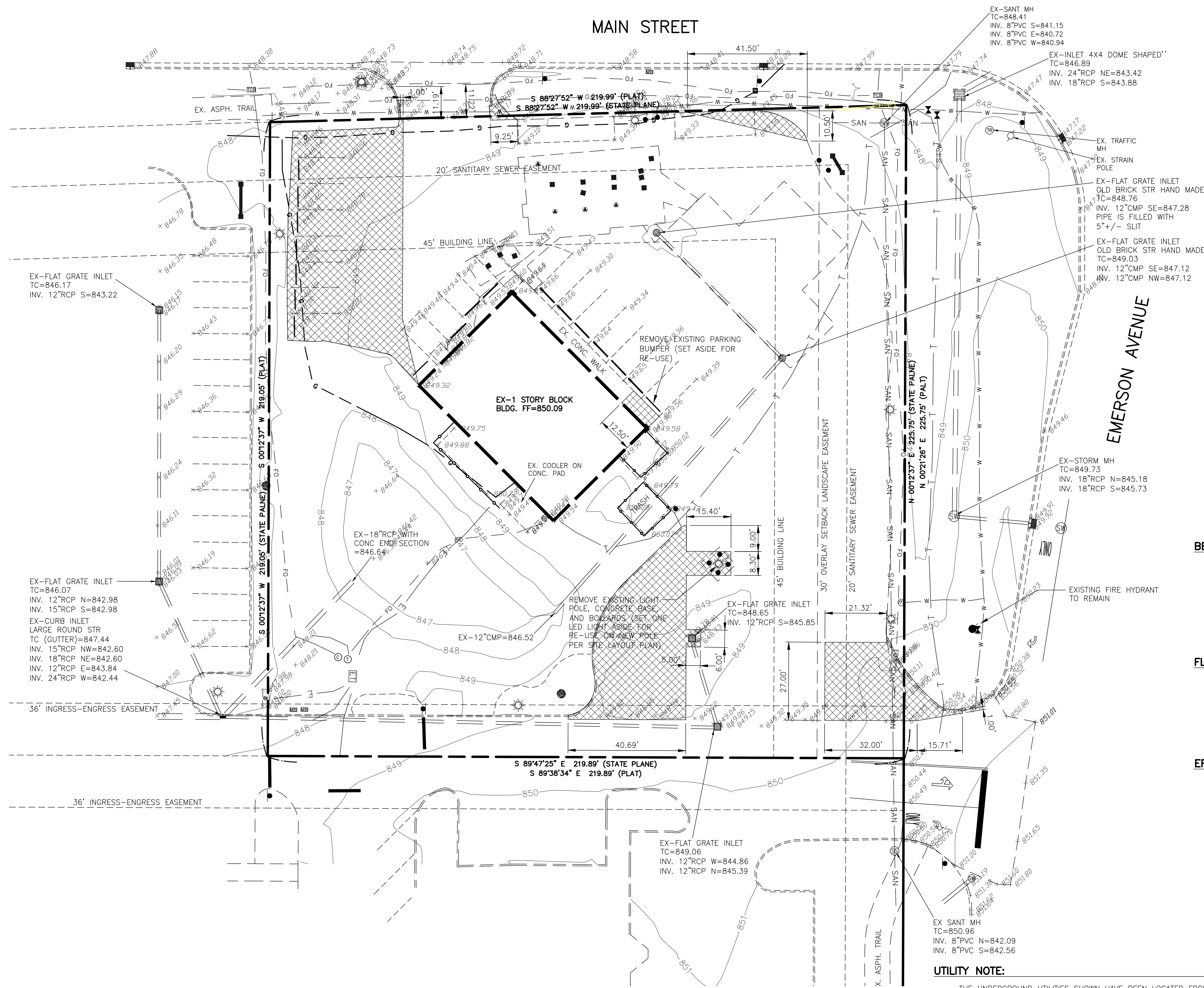
THE DEVELOPER/OWNER IS ULTIMATELY RESPONSIBLE TO ENSURE THE THE PROJECT IS IN COMPLIANCE WITH ALL PLAN COMMISSION AND/OR BOARD OF ZONING APPEALS CONDITIONS.

THE DEVELOPER/OWNER IS ULTIMATELY RESPONSIBLE TO ENSURE THAT THE PROPOSED PROJECT IS BUILT TO ALL CITY OF GREENWOOD STANDARDS AND SPECIFICATIONS.

THE PROJECT ENGINEER/SURVEYOR IS RESPONSIBLE IN ENSURING THAT THE SITE DEVELOPMENT PLANS ARE DESIGNED TO ALL CITY OF GREENWOOD STANDARDS AND SPECIFICATIONS.

PRECONSTRUCTION MEETING NOTE:

A PRECONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE CITY OF GREENWOOD PRIOR TO STARTING ANY SITE CONSTRUCTION ACTIVITIES (EXCLUDING BUILDING DEMOLITION). CONTACT THE APPLICABLE CITY OFFICE AT (317) 887-5230 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO PROPOSED COMMENCEMENT DATE TO SCHEDULE PRECONSTRUCTION MEETING.



- LEGEND:**
- EXISTING SPOT ELEVATION
 - EXISTING CONTOURS LINES
 - EXISTING WATER SERVICE LINES
 - EXISTING SANITARY SEWER SERVICE LINES
 - EXISTING SANITARY SEWER SERVICE MANHOLE
 - EXISTING STORM SEWER SERVICE LINES
 - EXISTING STORM SEWER INLETS
 - EXISTING GAS SERVICE LINES
 - EXISTING ELECTRICAL SERVICE LINES
 - EXISTING ELECTRICAL TRANSFORMER LOCATION
 - EXISTING SITE LIGHTING POLE
 - EXISTING COMMUNICATION SERVICE LINES
 - EXISTING FIBER OPTIC CABLE LINES
 - EXISTING FENCING
 - EXISTING TANK FUELING POINT
 - EXISTING MONITORING WELLS

- DEMOLITION LEGEND**
- HATCH INDICATES: AREAS OF STRUCTURES, PAVEMENT, CONCRETE, CURBS, AND LANDSCAPING TO BE REMOVED AND PREPARED FOR NEW CONSTRUCTION AS SHOWN ON THE SITE LAYOUT PLAN

PARCEL LEGAL DESCRIPTION:

LOT NUMBER FOUR (4), SECTION ONE, IN BACKER COMMERCIAL SUBDIVISION AS PER PLAT RECORDED ON OCTOBER 6 1988 IN PLAT BOOK C PAGE 387 AS INSTRUMENT NUMBER 31895 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA.

BENCHMARKS:
ELEVATION WAS ESTABLISHED USING INCORS GPS CONTINUOUSLY OPERATING REFERENCE STATION INMT (INDIANAPOLIS CORS ARP) AS REFERENCED ON NGS DATA SHEETS. ERROR +/- 0.13 FOOT

NOTES:
This survey was performed using GPS equipment referenced to the INDOT network using the North American Datum of 1983, Indiana East Zone. All bearings shown on this plot of survey are relative to this datum.

FLOOD NOTE:
THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONE "X" AS SAID PARCEL PLOTS ON MAPS NUMBER 18081C0127D, DATED AUGUST 02, 2007 OF THE FLOOD INSURANCE RATE MAP FOR THE CITY OF GREENWOOD, IN JOHNSON COUNTY, INDIANA. THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP.

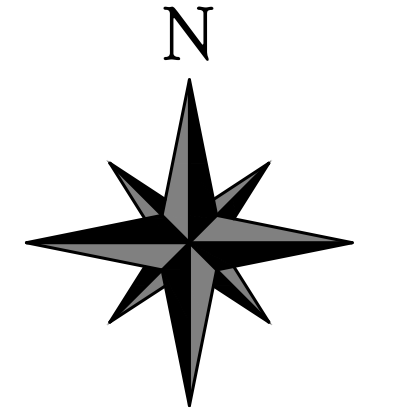
EROSION CONTROL INFORMATION:
SEE SITE EROSION CONTROL PLAN FOR LOCATIONS AND INSTALLATION OF ALL EROSION CONTROL MEASURES REQUIRED ON THIS SITE.

- NOTE:**
- NO EARTH DISTURBING ACTIVITY MAY COMMENCE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.
 - ALL EXISTING ASPHALT PAVEMENT TO BE REMOVED SHALL BE SAWCUT TO A CLEAN EDGE IN PREPARATION FOR NEW CONSTRUCTION.

UTILITY NOTE:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION (TICKET No. 2111111496, Date: 11/11/2021 AND 2111111496, Date: 12/14/2021). THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.



UTILITY DISCLAIMER
EXISTING UNDERGROUND INSTALLATIONS SUCH AS WATER MAINS, GAS MAINS, SEWERS, TELEPHONE LINES, AND BURIED STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE HEREUNDER ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE SURVEYOR IN PREPARING THIS DRAWING. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.



REVISION
04/14/2022 revised plan per reviewer's comments



VERSATILE CONSTRUCTION GROUP, LLC.

570 East Tracy Road, Suite 610
New Holland, Indiana 46184
Ph: 317.535.3579 Fax: 317.535.3581

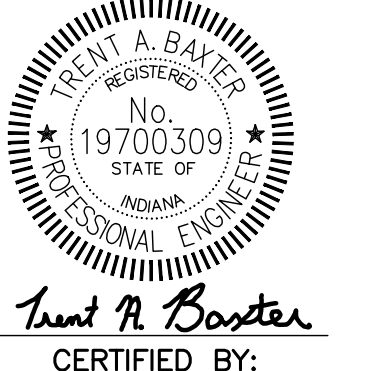
Site Renovations to:

Village Pantry
899 E Main Street
Greenwood, Indiana 46143

Site Demolition Plan

Job No.:	Date Stamped:
21072	01/04/2022
Drawn By:	Checked By: Scale:
caw	tab 1"= 20.0'
CAD FILE:	
C:\21072\c100 site demolition plan.dwg	

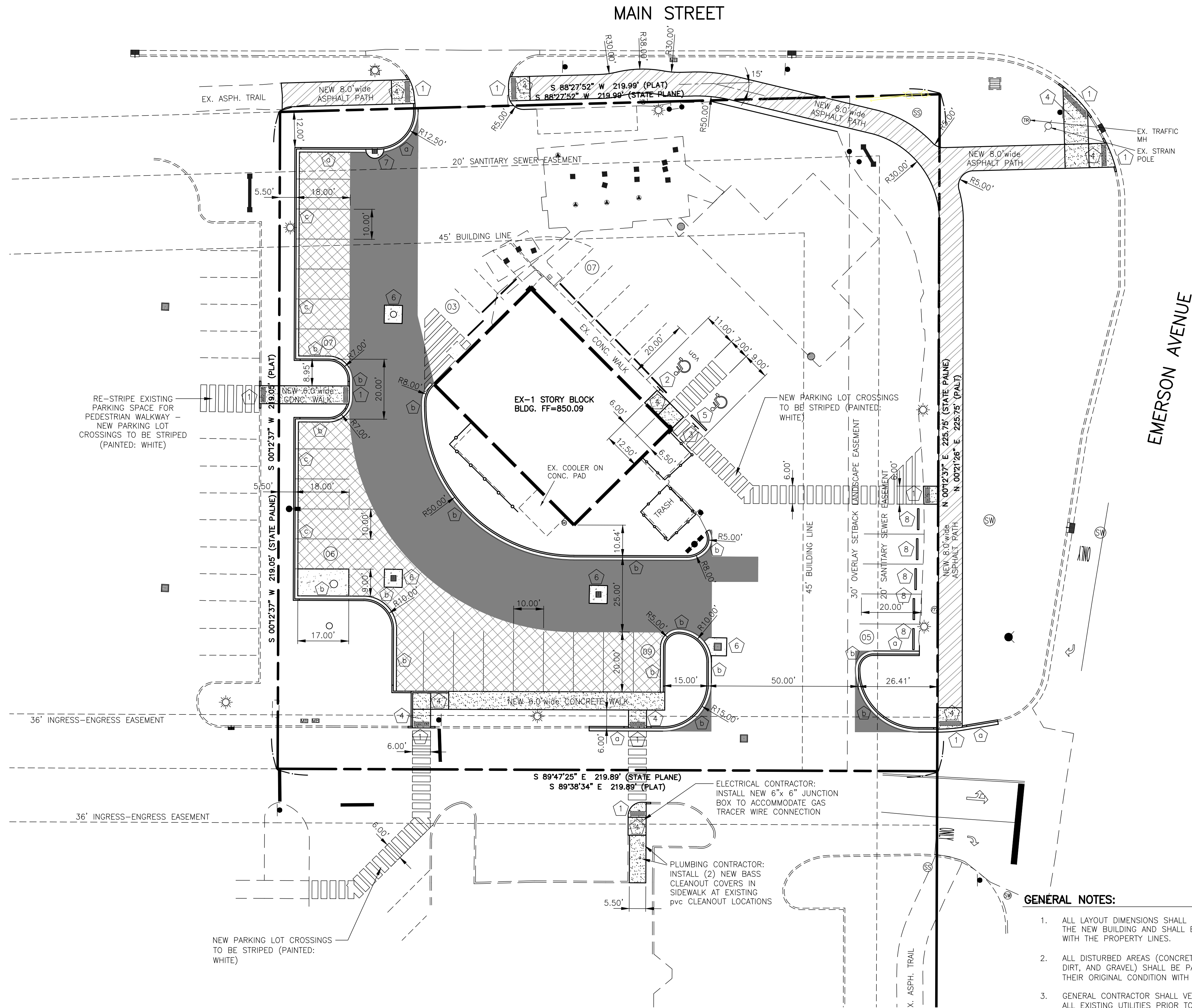
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CERTIFIED BY:

SHEET TITLE:

C100



GENERAL NOTES:

- ALL LAYOUT DIMENSIONS SHALL BE TAKEN FROM THE NEW BUILDING AND SHALL BE PARALLEL WITH THE PROPERTY LINES.
- ALL DISTURBED AREAS (CONCRETE, ASPHALT PAVEMENT, DIRT, AND GRAVEL) SHALL BE PATCHED BACK TO THEIR ORIGINAL CONDITION WITH "LIKE" CONSTRUCTION.
- GENERAL CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION.
- ALL CONCRETE SIDEWALKS SHALL HAVE TOOLED SMOOTH EXPANSION JOINTS AT 6.0' C-C. (MAXIMUM)
- ALL PARKING LOT PARKING SPACES TO BE STRIPED WITH "WHITE" PAINT WITH THE EXCEPTION OF HANDICAP SPACES WHICH ARE TO BE PAINTED "BLUE".
- ALL PARKING LOT CROSSINGS TO BE STRIPED (PAINTED) WITH "WHITE" PAINT WITH THE EXCEPTION OF HANDICAP SPACES WHICH ARE TO BE STRIPED (PAINTED) "BLUE".

PARCEL LEGAL DESCRIPTION:

LOT NUMBER FOUR (4), SECTION ONE, IN BACKER COMMERCIAL SUBDIVISION AS PER PLAT RECORDED ON OCTOBER 6 1988 IN PLAT BOOK C PAGE 387 AS INSTRUMENT NUMBER 31895 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA.

LEGEND:

- EXISTING SANITARY SEWER SERVICE MANHOLE
- EXISTING STORM SEWER INLETS
- EXISTING SITE LIGHTING POLE
- EXISTING FENCING
- EXISTING TANK FUELING POINT
- EXISTING MONITORING WELLS
- INDICATED NUMBER OF PARKING SPACES PER ROW

LAYOUT SYMBOL INFORMATION:

- ALL HANDICAP RAMPS SHALL BE 4" CONCRETE AND SHALL INCLUDE AT THE BOTTOM OF RAMP: TRUNCATED DOME SYSTEM BY ARMOR-TILE TACTILE SYSTEM TRIDEN/WHITE CAP CONSTRUCTION SUPPLY 4510 INDUSTRIAL ROAD FORT WAYNE, INDIANA 46825 PH: (800) 553-7173
- METAL "VAN" HANDICAP PARKING SIGNS (SEE SITEWORK DETAILS)
- METAL HANDICAP PARKING SIGNS (SEE SITEWORK DETAILS)
- CONCRETE HANDICAP RAMPS (1:12 max. slope) (SEE SITEWORK DETAILS)
- RE-LOCATION PARKING BUMPER
- 6.0'sq.x 6"thick CONCRETE COLLAR AROUND INLETS (SEE SITEWORK DETAILS)
- (HALF) 6.0'dia.x 6"thick CONCRETE COLLAR AROUND CURB INLETS (SEE SITEWORK DETAILS)
- PRE-MANUFACTURED CONCRETE PARKING BUMPERS (SEE SITEWORK DETAILS)

PAVEMENT INFORMATION:

- HATCH INDICATES: NORMAL DUTY PAVEMENT OF 1 1/2" HOT ASPHALT SURFACE OVER 2" BITUMINOUS BASE ON 6" COMPACTED No.53 STONE TOTAL AREA: 5,000.0 sq.ft. (SEE SITEWORK DETAILS)
- HATCH INDICATES: HEAVY DUTY PAVEMENT OF 1 1/2" HOT ASPHALT SURFACE OVER 3 1/2" BITUMINOUS BASE ON 8" COMPACTED No.53 STONE TOTAL AREA: 5,600.0 sq.ft. (SEE SITEWORK DETAILS)
- HATCH INDICATES: 6" CONCRETE SLAB WITH 6-6-6 W.W.F. OVER 6" COMPACTED GRANULAR FILL TOTAL AREA: 350.0 sq.ft. (SEE SITEWORK DETAILS)
- HATCH INDICATES: RUNNING PATH 3" OF No.9 OVER SANDED BITUMINOUS BINDER ON 6" COMPACTED No.53 GRANULAR FILL TOTAL AREA: 3,500.0 sq.ft.
- HATCH INDICATES: 4" CONCRETE SIDEWALK WITH 6-6-6 W.W.F. OVER 4" COMPACTED GRANULAR FILL TOTAL AREA: 1,300.0 sq.ft. (SEE SITEWORK DETAILS)

CURBING LAYOUT SYMBOL INFORMATION:

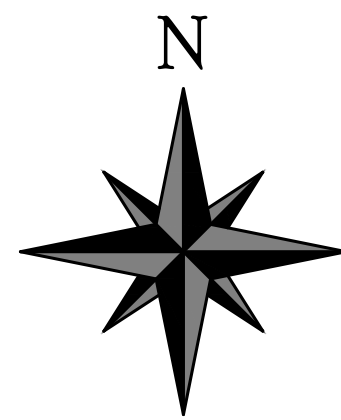
- SYMBOL INDICATES: 6"tall CONCRETE CURB AND GUTTER PER GENERAL SITEWORK DETAILS (TOTAL LENGTH: 105.0 l.f.)
- SYMBOL INDICATES: 6"tall CONCRETE CURB AND GUTTER WITH REVERSE SLOPE PER GENERAL SITEWORK DETAILS (TOTAL LENGTH: 360.0 l.f.)
- SYMBOL INDICATES: 4"tall CONCRETE CURB AND GUTTER WITH REVERSE SLOPE PER GENERAL SITEWORK DETAILS (TOTAL LENGTH: 130.0 l.f.)

SITE LAYOUT PLAN
SCALE: 1"= 20.0'



UTILITY DISCLAIMER

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REVISION	04/14/2022	revised plan per reviewer's comments
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VERSATILE
CONSTRUCTION
GROUP, LLC.

570 East Tracy Road, Suite 610
New Holland, Indiana 46184
PH: 317.535.3579 Fax: 317.535.3581

Site Renovations to:

Village Pantry

899 E Main Street

Greenwood, Indiana 46143

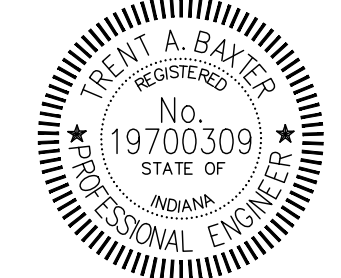
Site Layout Plan

Job No.:	Date Stamped:	
21072	01/04/2022	
Drawn By:	Checked By:	Scale:
caw	tab	1"= 20.0

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G:\21072\c200 site layout plan.dwg

CAD FILE:
G:\21072\c200 site layout plan.dwg

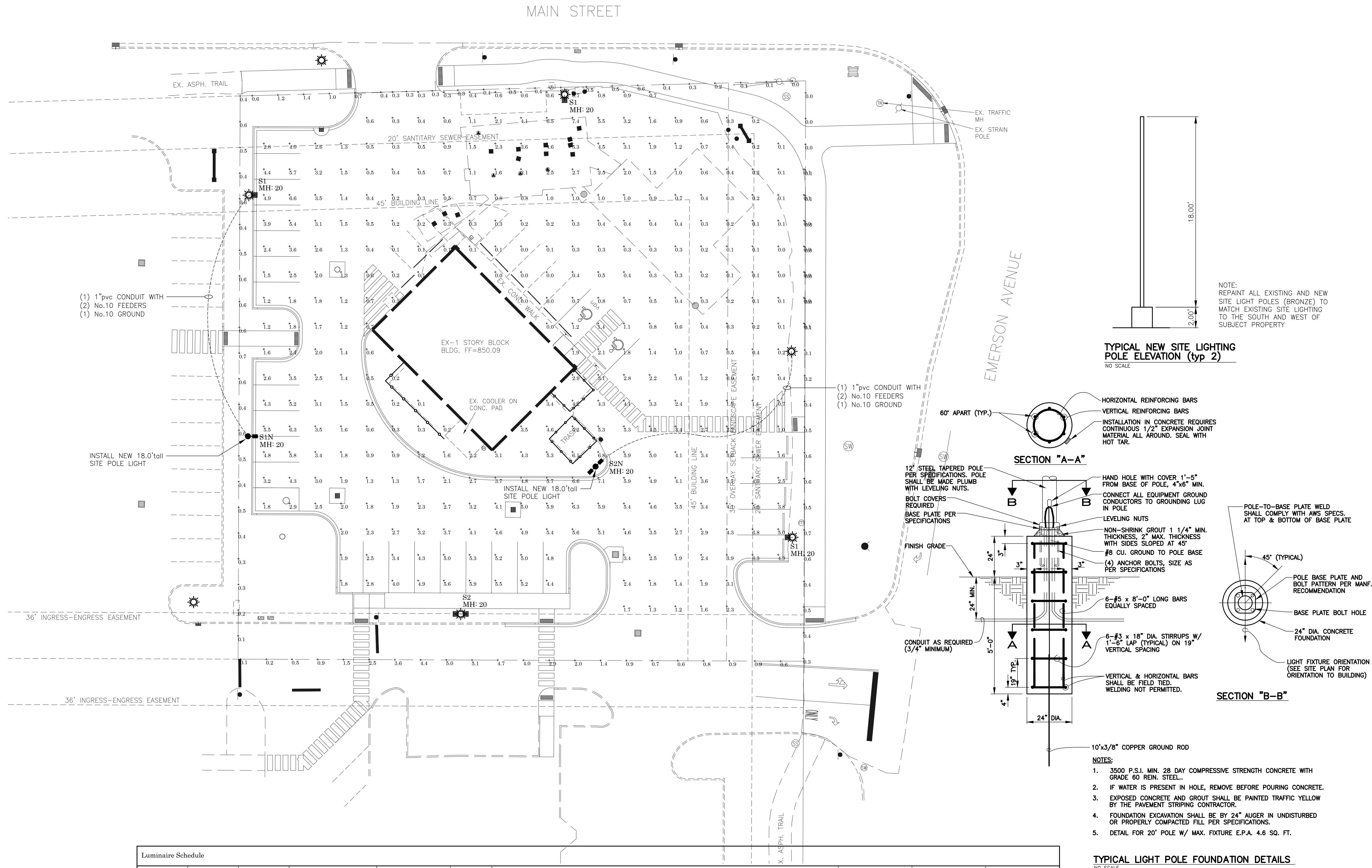


Trent A. Baxter
CERTIFIED BY:

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LICENSOR WHOSE SEAL
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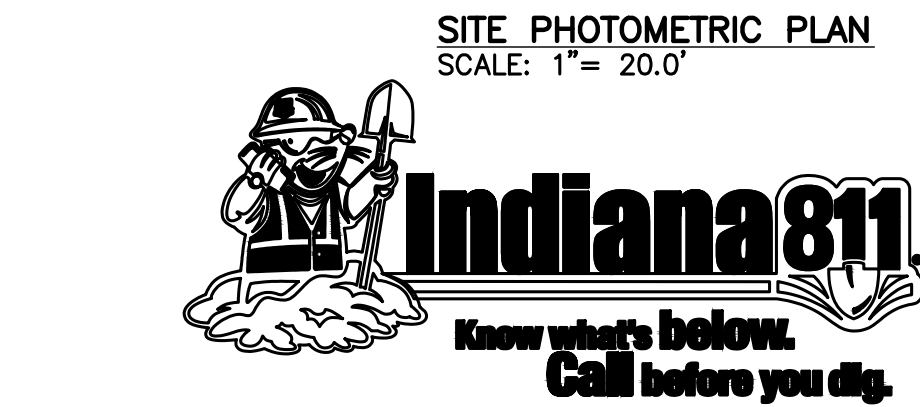
SHEET TITLE:

C200



Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	Description	Lum. Watts	Arr. Watts	Total Watts
	3	S1	SINGLE	11462	0.950	UTOPIA LAP-2G-141LED-40K-T3-UNV-BZ-PMS-HS / ON EXISTING 18' POLE ON 2' CONCRETE BASE	142	142	426
	1	S1N	SINGLE	11462	0.950	UTOPIA LAP-2G-141LED-40K-T3-UNV-BZ-PMS-HS / ON NEW 18' POLE ON 2' CONCRETE BASE	142	142	142
	1	S2	D180	25504	0.950	UTOPIA LAP-2G-141LED-40K-T5-UNV-BZ-PMS / ON EXISITNG 18' POLE ON 2' CONCRETE BASE	132	264	264
	1	S2N	D180	25504	0.950	UTOPIA LAP-2G-141LED-40K-T5-UNV-BZ-PMS / ON NEW 18' POLE ON 2' CONCRETE BASE	132	264	264

Calculation Summary						
Description	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE	Fe	2.1	7.4	0.0	N.A.	N.A.
BOUNDARY LINE	Fe	0.8	5.1	0.0	N.A.	N.A.

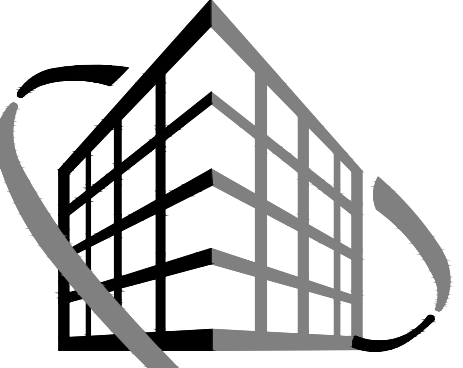


UTILITY DISCLAIMER

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REVISION

04/14/2022	revised plan per reviewer's comments



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CONSTRUCTION
GROUP, LLC.

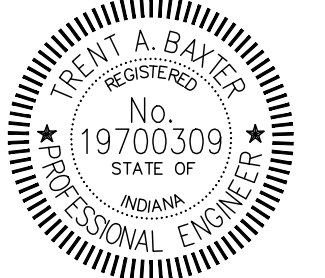
570 East Tracy Road, Suite 610
New Richmond, Indiana 46154
Ph: 317.535.3579 Fax: 317.535.3581

Site Renovations to:
Village Pantry
899 E Main Street
Greenwood, Indiana 46143

Site Photometric Plan

Job No.:	Date Stamped:	
21072	01/04/2022	
Drawn By:	Checked By:	Scale:
caw	tab	1"= 20.0'
CAD FILE:		
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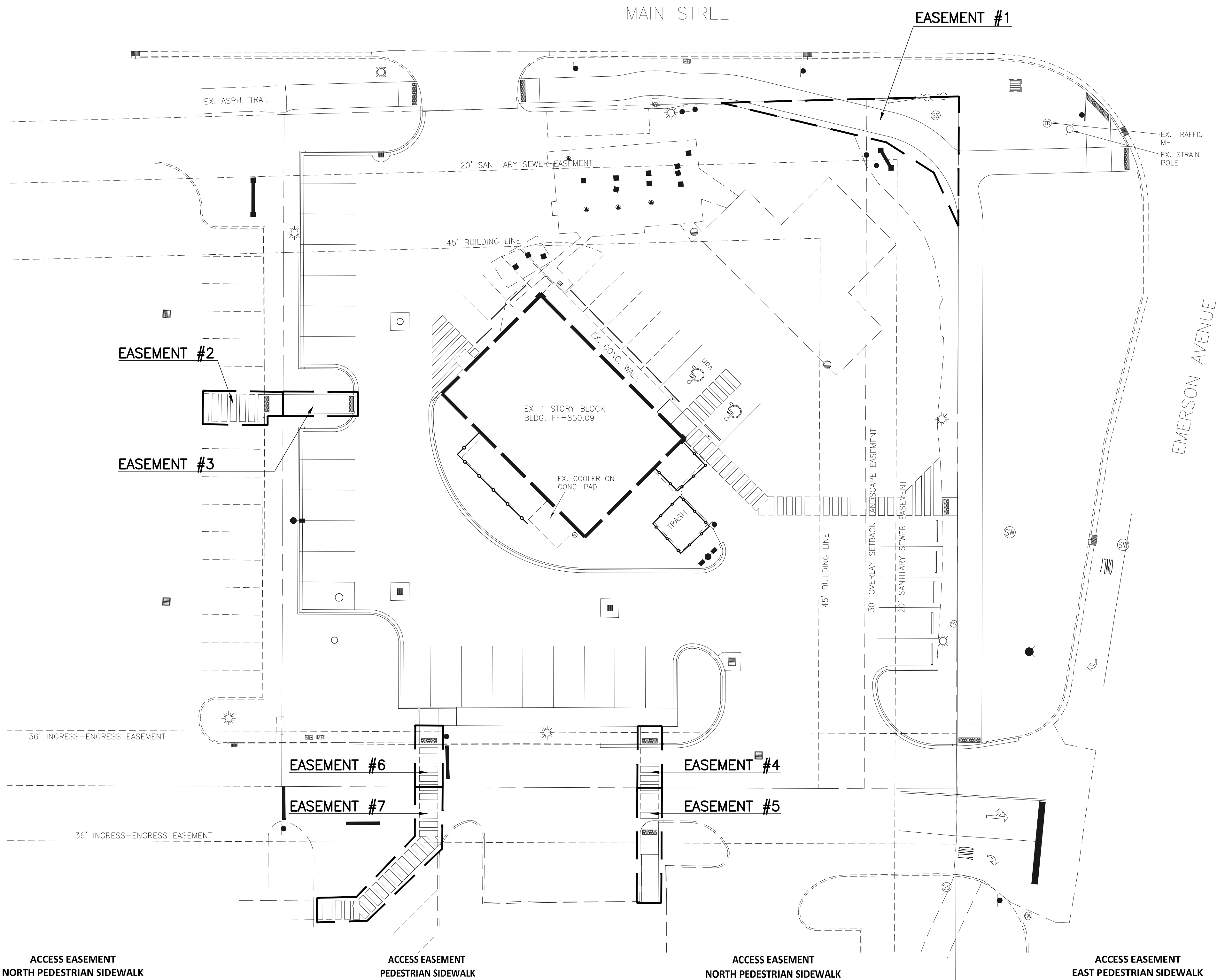
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SHEET TITLE:
C210



ACCESS EASEMENT
FOR TRAIL ALONG
MAIN STREET AND EMERSON AVENUE
GREENWOOD, INDIANA

ACCESS EASEMENT #1

A PART OF OUTLOT NUMBER FOUR (4), SECTION ONE, IN BACKER COMMERCIAL SUBDIVISION AS PER PLAT RECORDED OCTOBER 6, 1988 IN PLAT C, PAGE 387 AS INSTRUMENT NUMBER 31895 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA:

BEGINNING AT THE NORTHEAST CORNER OF SAID LOT FOUR (4); THENCE SOUTH 00 DEGREES 21 MINUTES 26 SECONDS WEST ALONG THE WEST RIGHT OF WAY LINE OF EMERSON AVENUE, 42.22 FEET; THENCE NORTH 24 DEGREES 33 MINUTES 17 SECONDS WEST, 19.41 FEET; THENCE NORTH 57 DEGREES 13 MINUTES 19 SECONDS, 18.39 FEET; THENCE NORTH 76 DEGREES 23 MINUTES 19 SECONDS WEST, 55.32 FEET TO THE SOUTH RIGHT OF WAY OF MAIN STREET, ; THENCE NORTH 88 DEGREES 36 MINUTES 41 SECONDS EAST AND ALONG THE AID RIGHT OF WAY, 77.45 FEET TO **POINT OF BEGINNING**.

ACCESS EASEMENT
EAST PEDESTRIAN SIDEWALK

ACCESS EASEMENT #2

A PART OF OUTLOT NUMBER FOUR (4), SECTION ONE, IN BACKER COMMERCIAL SUBDIVISION AS PER PLAT RECORDED OCTOBER 6, 1988 IN PLAT C, PAGE 387 AS INSTRUMENT NUMBER 31895 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA:

COMMENCING AT THE NORTHWEST CORNER OF SAID LOT FOUR (4); THENCE SOUTH 00 DEGREES 21 MINUTES 26 SECONDS WEST ALONG THE WEST PROPERTY LINE OF SAID LOT, 90.30 FEET TO THE **POINT OF BEGINNING**; THENCE SOUTH 89 DEGREES 38 MINUTES 34 SECONDS EAST, 24.50 FEET; THENCE SOUTH 00 DEGREES 21 MINUTES 26 SECONDS WEST, 8.00 FEET; THENCE NORTH 89 DEGREES 38 MINUTES 34 SECONDS WEST TO WEST LINE OF SAID LOT FOUR (4), 24.50 FEET; THENCE NORTH 00 DEGREES 21 MINUTES 26 SECONDS EAST ALONG SAID WEST LINE, 8.00 FEET TO THE **POINT OF BEGINNING**.

ACCESS EASEMENT
WEST PEDESTRIAN SIDEWALK

ACCESS EASEMENT #3

A PART OF OUTLOT NUMBER THREE (3), SECTION ONE, IN BACKER COMMERCIAL SUBDIVISION AS PER PLAT RECORDED OCTOBER 6, 1988 IN PLAT C, PAGE 387 AS INSTRUMENT NUMBER 31895 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA:

COMMENCING AT THE NORTHEAST CORNER OF SAID LOT THREE (3); THENCE SOUTH 00 DEGREES 21 MINUTES 26 SECONDS WEST ALONG THE EAST PROPERTY LINE OF SAID LOT, 90.30 FEET TO THE **POINT OF BEGINNING**; THENCE SOUTH 00 DEGREES 21 MINUTES 26 WEST WITH SAID EAST LINE, 8.00 FEET; THENCE NORTH 89 DEGREES 38 MINUTES 34 SECONDS, 5.02 FEET; THENCE SOUTH 00 DEGREES 15 MINUTES 46 SECONDS WEST, 3.00 FEET; THENCE NORTH 88 DEGREES 56 MINUTES 46 SECONDS WEST, 21.22 FEET; THENCE NORTH 01 DEGREES 03 MINUTES 14 SECONDS, 10.94 FEET; THENCE SOUTH 88 DEGREES 56 MINUTES 46 SECONDS EAST, 26.09 FEET TO THE **POINT OF BEGINNING**.

ACCESS EASEMENT #7

A PART OF OUTLOT NUMBER TWO (2), SECTION TWO, IN (AMENDED) SECONDARY PLAT BACKER COMMERCIAL SUBDIVISION AS PER PLAT RECORDED JUNE 13, 2000 IN PLAT BOOKD D, PAGE 292 C & D AS INSTRUMENT NUMBER 2000-013296 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA:

COMMENCING AT THE NORTHEAST CORNER OF SAID LOT TWO (2); THENCE NORTH 89 DEGREES 38 MINUTES 34 SECONDS WEST ALONG THE NORTH PROPERTY LINE OF SAID LOT 2, 167.45 FEET TO THE **POINT OF BEGINNING**; THENCE SOUTH 00 DEGREES 26 MINUTES 47 SECONDS WEST, 20.04 FEET THENCE SOUTH 46 DEGREES 09 MINUTES 45 SECONDS WEST, 34.66 FEET; THENCE NORTH 89 DEGREES 50 MINUTES 31 SECONDS WEST, 15.96 FEET; THENCE NORTH 00 DEGREES 14 MINUTES 13 SECONDS EAST, 8.00; THENCE NORTH 88 DEGREES 55 MINUTES 17 SECONDS EAST, 12.93 FEET; THENCE NORTH 44 DEGREES 05 MINUTES 17 SECONDS EAST, 27.35 FEET; THENCE NORTH 00 MINUTES 26 MINUTES 47 SECONDS TO THE NORTH LINE OF SAID LOT 2, 16.18 FEET; THENCE SOUTH 89 DEGREES 38 MINUTES 34 SECONDS EAST, 9.00FEET TO THE **POINT OF BEGINNING**.

ACCESS EASEMENT #6

A PART OF OUTLOT NUMBER FOUR (4), SECTION ONE, IN BACKER COMMERCIAL SUBDIVISION AS PER PLAT RECORDED OCTOBER 6, 1988 IN PLAT C, PAGE 387 AS INSTRUMENT NUMBER 31895 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA:

COMMENCING AT THE SOUTHEAST CORNER OF SAID LOT FOUR (4); THENCE NORTH 89 DEGREES 38 MINUTES 34 SECONDS WEST ALONG THE SOUTH PROPERTY LINE OF SAID LOT, 167.45 FEET TO THE **POINT OF BEGINNING**; THENCE NORTH 89 DEGREES 38 MINUTES 34 SECONDS WEST ALONG SOUTH LINE OF SAID LOT, 9.00 FEET; THENCE NORTH 00 DEGREES 26 MINUTES 47 SECONDS EAST, 20.04 FEET; THENCE SOUTH 89 DEGREES 38 MINUTES 34 SECONDS EAST, 9.00 FEET; THENCE SOUTH 00 DEGREES 26 MINUTES 47 SECONDS WEST, 20.04 FEET TO THE **POINT OF BEGINNING**.

ACCESS EASEMENT #5

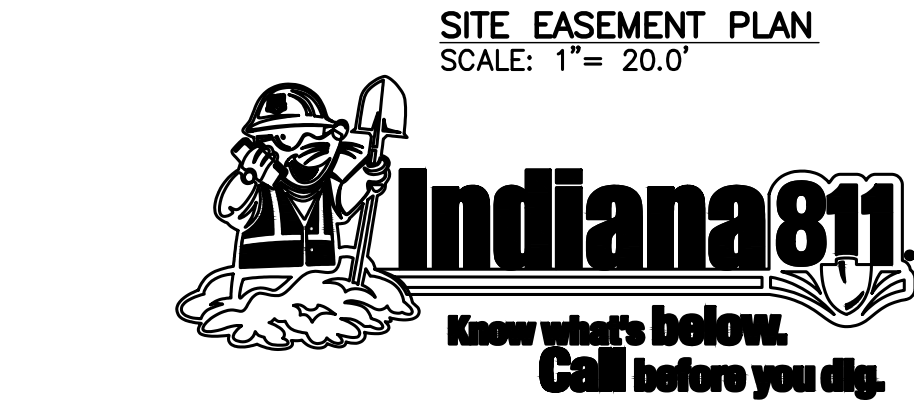
A PART OF OUTLOT NUMBER TWO (2), SECTION TWO, IN (AMENDED) SECONDARY PLAT BACKER COMMERCIAL SUBDIVISION AS PER PLAT RECORDED JUNE 13, 2000 IN PLAT BOOKD D, PAGE 292 C & D AS INSTRUMENT NUMBER 2000-013296 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA:

COMMENCING AT THE NORTHEAST CORNER OF SAID LOT TWO (2); THENCE NORTH 89 DEGREES 38 MINUTES 34 SECONDS WEST ALONG THE NORTH PROPERTY LINE OF SAID LOT 2, 95.96 FEET TO THE **POINT OF BEGINNING**; THENCE SOUTH 00 DEGREES 26 MINUTES 47 SECONDS WEST, 37.57 FEET THENCE NORTH 89 DEGREES 38 MINUTES 34 SECONDS WEST, 8.00 FEET; THENCE NORTH 00 DEGREES 26 MINUTES 47 SECONDS EAST TO THE NORTH LINE OF SAID LOT 2, 37.57 FEET; THENCE SOUTH 89 DEGREES 38 MINUTES 34 SECONDS EAST, 8.00FEET TO THE **POINT OF BEGINNING**.

ACCESS EASEMENT #4

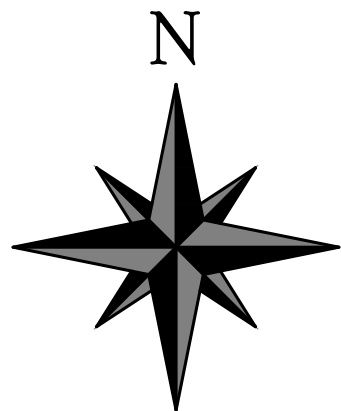
A PART OF OUTLOT NUMBER FOUR (4), SECTION ONE, IN BACKER COMMERCIAL SUBDIVISION AS PER PLAT RECORDED OCTOBER 6, 1988 IN PLAT C, PAGE 387 AS INSTRUMENT NUMBER 31895 IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA:

COMMENCING AT THE SOUTHEAST CORNER OF SAID LOT FOUR (4); THENCE NORTH 89 DEGREES 38 MINUTES 34 SECONDS WEST ALONG THE SOUTH PROPERTY LINE OF SAID LOT, 95.96 FEET TO THE **POINT OF BEGINNING**; THENCE NORTH 89 DEGREES 38 MINUTES 34 SECONDS WEST ALONG SOUTH LINE OF SAID LOT, 8.00 FEET; THENCE NORTH 00 DEGREES 26 MINUTES 47 SECONDS WEST, 20.04 FEET; THENCE SOUTH 89 DEGREES 38 MINUTES 34 SECONDS EAST, 8.00 FEET; THENCE SOUTH 00 DEGREES 26 MINUTES 47 SECONDS EAST, 20.04 FEET TO THE **POINT OF BEGINNING**.



UTILITY DISCLAIMER

EXISTING UNDERGROUND INSTALLATIONS SUCH AS WATER MAINS, GAS MAINS, SEWERS, TELEPHONE LINES, AND BURIED STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE HEREUNDER ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE SURVEYOR IN PREPARING THIS DRAWING. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.



REVISION	
04/14/2022	revised plan per reviewer's comments



VERSATILE
CONSTRUCTION
GROUP, LLC.
570 East Tracy Road, Suite 610
New Whiteland, Indiana 46184
Ph: 317.535.3579 Fax: 317.535.3581

Site Renovations to:
Village Pantry
899 E Main Street
Greenwood, Indiana 46143

Site Easement Plan

Job No.:	Date Stamped:
21072	01/04/2022
Drawn By:	Checked By: Scale:
caw	tab 1"= 20.0'
CAD FILE: G:\21072\C220 site easement plan.dwg	

CERTIFIED BY:
Trent A. Baxter

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LICENSOR WHOSE SEAL
IS AFFIXED TO THIS DRAWING.

SHEET TITLE:
C220

1. ALL PLANT MATERIALS SHALL CONFORM TO THE STANDARDS SET FORTH IN THE CURRENT EDITION OF THE AMERICAN STANDARDS NURSERY STOCK OF NURSEYMEN. PLANTS SHALL BE TYPICAL OF SPECIES AND VARIETY, AND HAVE NORMAL, WELL-DEVELOPED BRANCHING STRUCTURE AND VIGOROUS FIBROUS ROOT SYSTEM.
2. PLANTS SHALL BE HEALTHY, VIGOROUS PLANTS FREE FROM INSECTS AND DISEASE. TRUNK AND STEMS SHALL BE FIRM WITH NO INDICATION OF FUNGUS CANKERS OR GALLS, INSECT BORERS, DIEBACK, FRONT CRACKS, OR OTHER DEFECTS.
3. ALL PLANTS SHALL BE COMMERCIALY GROWN AND NO PLANTS FROM THE WILD SHALL BE ACCEPTABLE WITHOUT SPECIFIC APPROVAL FROM THE DIVISION OF BUILDING INSPECTION.
4. TREES SHALL NOT BE ACCEPTABLE IF THEIR CENTRAL LEADER HAS BEEN CUT OR IS DAMAGED SO THAT CUTTING IS NECESSARY.
5. PLANTS SHALL NOT BE PRUNED PRIOR TO INSTALLATION. ANY NECESSARY PRUNING SHALL BE DONE IMMEDIATELY AFTER THE TIME OF INSTALLATION.
6. PLANT HEIGHT SHALL BE MEASURED BEFORE PRUNING WITH BRANCHES IN A NORMAL POSITION. NO PLANT SHALL BE PRUNED BACK TO SUCH AN EXTENT THAT IT NO LONGER MEETS THE REQUIRED SIZE SPECIFICATIONS.
7. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE BALLED AND BURLAPPED. NO BARE ROOT TREES SHALL BE ACCEPTABLE.
8. THE MINIMUM SIZE OF BALLS, BALL DEPTHS, AND BALL DIAMETERS SHALL BE IN ACCORDANCE WITH RECOMMENDED BALLING AND BURLAPPING SPECIFICATIONS AS SET FORTH IN THE CURRENT EDITION OF THE AMERICAN STANDARDS OF NURSERY STOCK.
9. ALL BALLED AND BURLAPPED PLANTS WHICH CANNOT BE PLANTED IMMEDIATELY SHALL BE SEALED IN AND PROTECTED WITH BURLAP OR OTHER ACCEPTED MATERIAL.
10. IDEAL TREES SELECTED FOR THIS PROJECT HAVE A STRAIGHT TRUNK, ROUNDED OR OVAL FORM, AND SYMMETRICAL BRANCHING PATTERN.
11. ALL TREES AND SHRUBS SHOWN ON THIS DRAWING SHALL BE PLACED IN A MANNER TO ALLOW FOR AMPLE ROOM TO DEVELOP.
12. IF WORK IS REQUIRED WITHIN THE EASEMENTS CAUSING REMOVAL OR DAMAGE OF LANDSCAPE MATERIALS, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR REPLACEMENT OF MATERIALS ACCORDING TO THE APPROVED LANDSCAPE PLAN.

1. All plant materials to meet minimum standards set by American Association of Nurserymen, latest published addition of American Standard for Nursery Stock.
2. All areas disturbed by construction and not otherwise paved or landscaped and all lawn areas shall be seeded with straw as specified.
3. All lawn areas to be raked smooth, fertilized and watered prior to seeding.

% of mix.	Name of grass	Application
39.86%	Falcon IV tall fescue	1.5 #/1,000 sq.ft.
29.80%	Scorpion II tall fescue	1.5 #/1,000 sq.ft.
29.60%	Six point tall fescue	1.5 #/1,000 sq.ft.
00.72%	Inert	1.5 #/1,000 sq.ft.
00.02%	Other weeds	1.5 #/1,000 sq.ft.

4. Planting soil for tree and shrub pits to be backfilled with the soil that was removed from the planting pit.

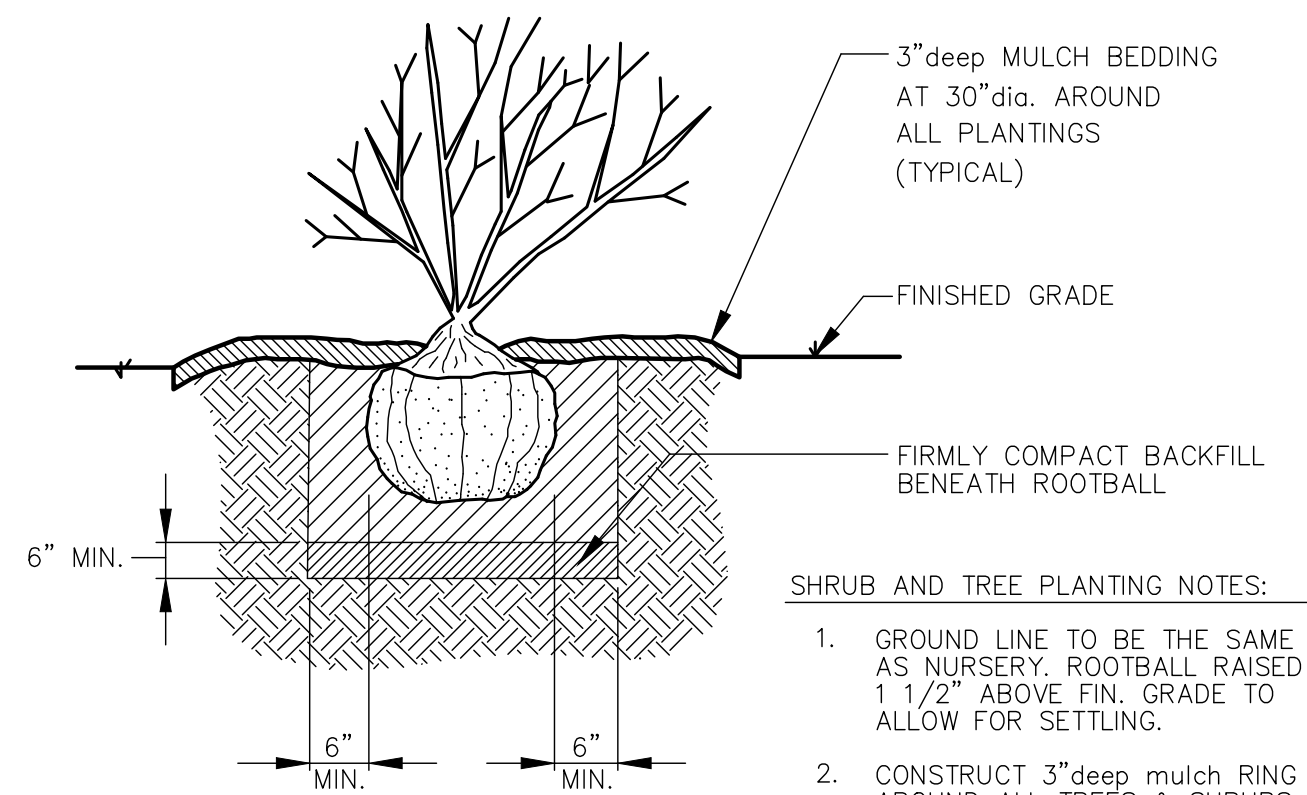
% of mix.	Name of grass	Application
39.86%	Falcon IV tall fescue	1.5 #/1,000 sq.ft.
29.80%	Scorpion II tall fescue	1.5 #/1,000 sq.ft.
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00.72%	Inert	1.5 #/1,000 sq.ft.
00.02%	Other weeds	1.5 #/1,000 sq.ft.

TABLE "A"

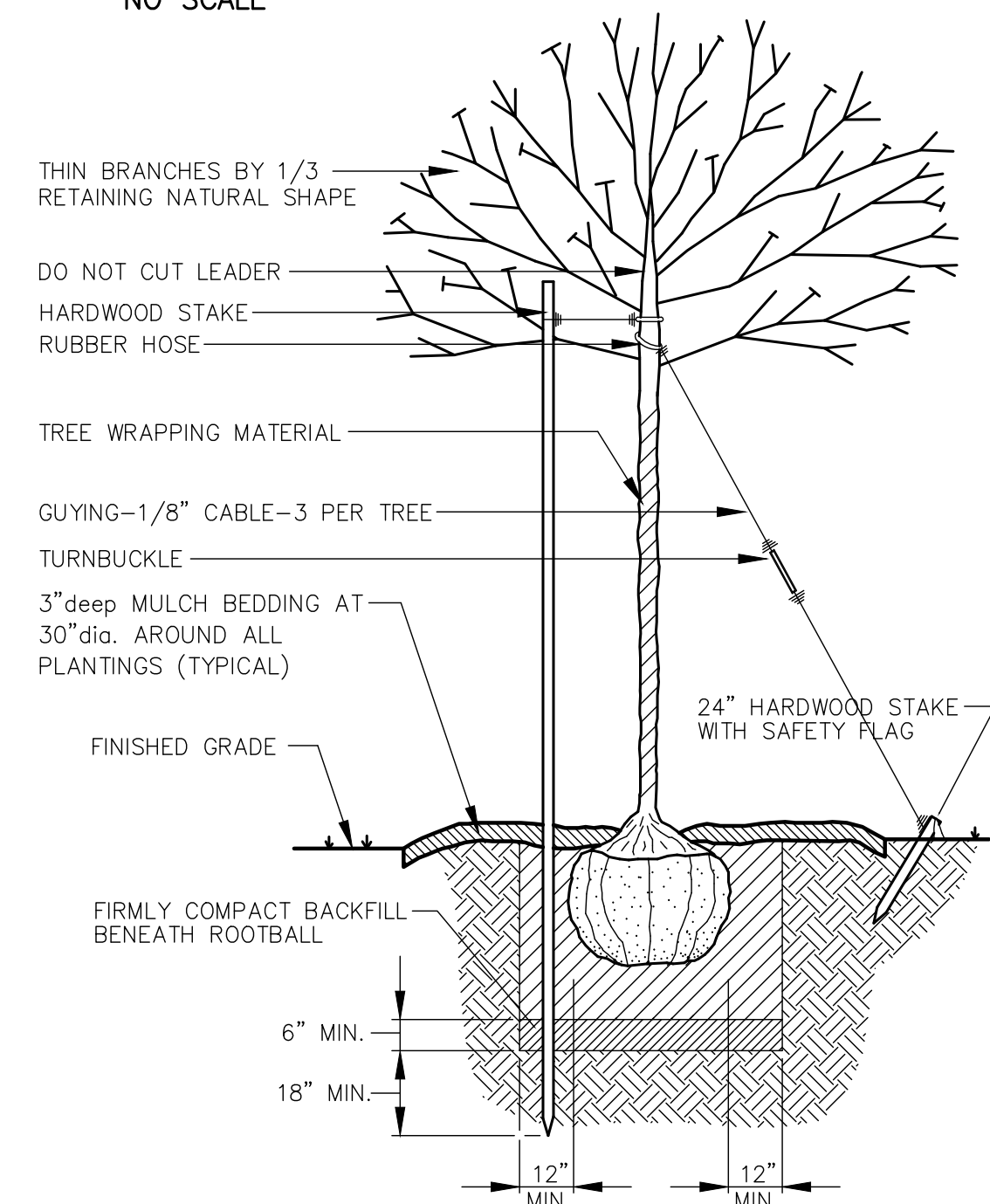
SEASONAL SOIL PROTECTION CHART

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	
STABILIZATION PRACTICE	A											
PERMANENT SEEDING	A											
DORMANT SEEDING	B											
TEMPORARY SEEDING	C											
SEEDING	D											
MULCHING	E											

NOTE:
ALL DISTURBED AREAS (OVER THIS ENTIRE
PROJECT DEVELOPMENT) SHALL BE FINISH
GRADED AND SEEDED PER EROSION CONTROL
PLANS PRIOR TO COMPLETION.



SHRUB PLANTING DETAIL
NO SCALE



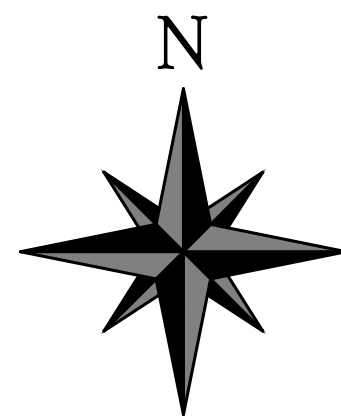
TREE PLANTING DETAIL
NO SCALE

	ORNAMENTAL TREES: BOTANICAL NAME: CRATAEGUS CRUS-GALLI COMMON NAME: COCKSPUR HAWTHORN CALIPER: 1 1/2" (single stem) QUANTITY: 05 5.0' dia. MULCH BEDDING	(*)bw	EVERGREEN SHRUB: BOTANICAL NAME: BUXUS MICROPHYLLA 'KOREANA' COMMON NAME: KOREAN BOXWOOD HEIGHT AT PLANTING: 15" (MIN) QUANTITY: 22 (MATURE HT.= 24" to 36" tall)
	ORNAMENTAL TREES: BOTANICAL NAME: PRUNUS 'NEWPORT' COMMON NAME: NEWPORT PLUM CALIPER: 1 1/2" (single stem) QUANTITY: 06 5.0' dia. MULCH BEDDING	(*)jh	EVERGREEN SHRUB: BOTANICAL NAME: ILEX CRENATA COMMON NAME: JAPANESE HOLLY HEIGHT AT PLANTING: 24" (MIN) QUANTITY: 22 (MATURE HT.= 36" to 60" tall)
	ORNAMENTAL TREES: BOTANICAL NAME: MALUS HYBRIDS COMMON NAME: FLOWERING CRABAPPLE CALIPER: 1 1/2" (single stem) QUANTITY: 06 5.0' dia. MULCH BEDDING	(*)nb	DECIDUOUS SHRUB: BOTANICAL NAME: HYDRANGEA MACROPHYLLA 'NIKKO BLUE' COMMON NAME: NIKKO BLUE HYDRANGEA HEIGHT AT PLANTING: 24" (MIN) QUANTITY: 21 (MATURE HT.= 36" to 48" tall)
	ORNAMENTAL TREES: BOTANICAL NAME: ACER GINALLA COMMON NAME: AMUR MAPLE CALIPER: 1 1/2" (single stem) QUANTITY: 04 5.0' dia. MULCH BEDDING	(*)fa	DECIDUOUS SHRUB: BOTANICAL NAME: PRUNUS GLANDULOSA COMMON NAME: DWARF FLOWERING

SITE LANDSCAPING PLAN
SCALE: 1"= 20.0'



EXISTING UNDERGROUND INSTALLATIONS SUCH AS WATER MAINS, GAS MAINS, SEWERS, TELEPHONE LINES, AND BURIED STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE HEREUNDER ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE SURVEYOR IN PREPARING THIS DRAWING. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.

[illegible]

**VERSATILE
CONSTRUCTION
GROUP, LLC.**

570 East Tracy Road, Suite 610
New Whiteland, Indiana 46184
Ph: 317.535.3579 Fax: 317.535.3568

Site Renovations to:

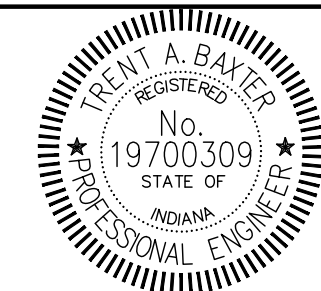
Village Pantry

899 E Main Street
Greenwood, Indiana 46143

Site Landscaping Plan

Job No.: 21072	Date Stamped: 01/04/2022	
Drawn By: caw	Checked By: tab	Scale: 1"= 20.0'

CAD FILE:
G:\21072\c300 site landscaping plan.dwg

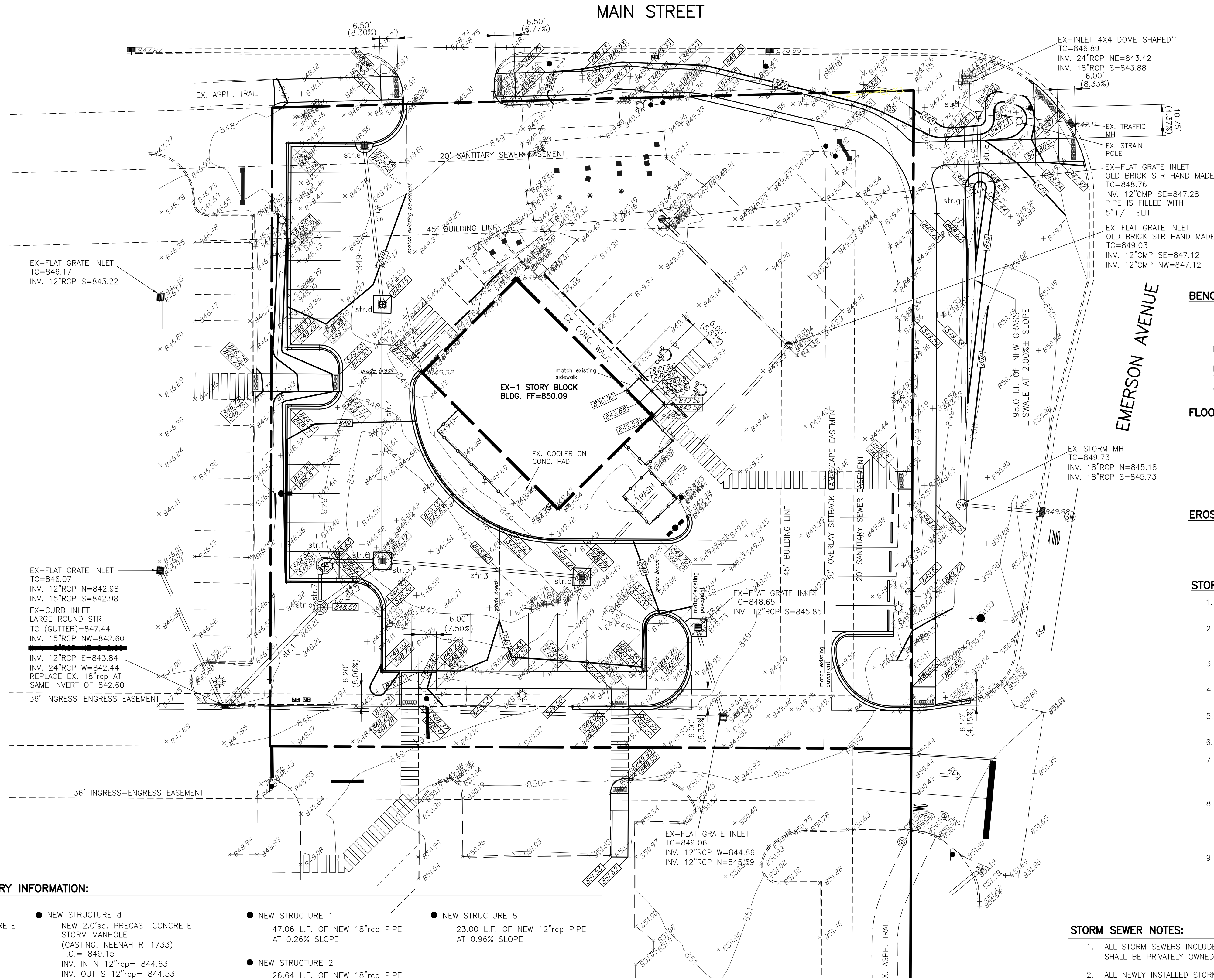


Trent A. Baxter
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SHEET TITLE

C300



LEGEND:

- EXISTING SPOT ELEVATION
- EXISTING CONTOURS
- EXISTING STORM SEWER SERVICE LINES
- EXISTING STORM SEWER INLETS
- PROPOSED SPOT ELEVATIONS
- PROPOSED CONTOURS
- PROPOSED STORM SEWER LINES
- PROPOSED STORM SEWER INLETS

BENCHMARKS:
ELEVATION WAS ESTABLISHED USING INCORS GPS CONTINUOUSLY OPERATING REFERENCE STATION INMT (INDIANPOLIS CORRS ARP) AS REFERENCED ON NGS DATA SHEETS. ERROR +/- 0.13 FOOT

NOTES:
This survey was performed using GPS equipment referenced to the INDOT network using the North American Datum of 1983, Indiana East Zone. All bearings shown on this plat of survey are relative to this datum.

FLOOD NOTE:
THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONE "X" AS SAID PARCEL PLOTS ON MAPS NUMBER 18081C0127D, DATED AUGUST 02, 2007 OF THE FLOOD INSURANCE RATE MAP FOR THE CITY OF GREENWOOD, IN JOHNSON COUNTY, INDIANA. THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP.

EROSION CONTROL INFORMATION:
SEE SITE EROSION CONTROL PLAN FOR LOCATIONS AND INSTALLATION OF ALL EROSION CONTROL MEASURES REQUIRED ON THIS SITE.

- STORM DRAINAGE AND GRADING NOTES**
- ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND REPLACE ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
 - ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
 - DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OF CENTERLINE OF STRUCTURE.
 - GRADES SHOWN ARE FINISHED GRADES. FOR BUILDING SUB-GRADE ELEVATIONS REFER TO ARCHITECTURAL PLANS.
 - ALL DIMENSIONS OR COORDINATES SHOWN TO BUILDING ARE TO OUTSIDE.
 - EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR ENGINEER.
 - THE SITE WORK CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SLEEVES, AND ANY OTHER MISCELLANEOUS), SHALL BE IN-PLACE PRIOR TO THE PLACEMENT OF BASE COURSE.
 - ALL FILL AREAS TO BE COMPACTED CLAY ROLLED IN WITH A SHEEPS FOOT ROLLER IN 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR. VERIFICATION OF THE COMPACTION SHALL BE DONE BY AN INDEPENDENT SOILS TESTING COMPANY AND ALL TEST RESULTS SUBMITTED TO THE ENGINEER.

- STORM SEWER NOTES:**
- ALL STORM SEWERS INCLUDED IN THIS PROJECT SHALL BE PRIVATELY OWNED AND MAINTAINED.
 - ALL NEWLY INSTALLED STORM SEWERS SHALL MEET OR EXCEED THE CITY STANDARDS FOR PUBLIC SEWERS AND SHALL BE TESTED PER THE CITY OF GREENWOOD TESTING SPECIFICATIONS.
 - ALL NEWLY INSTALLED STORM STRUCTURES SHALL BE EMBOSSED WITH ENVIRONMENTALLY FRIENDLY LANGUAGE, NOT STAMPED.

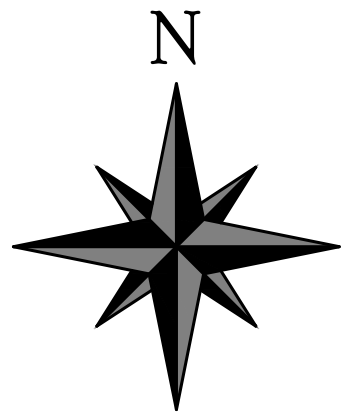
SITE GRADING PLAN
SCALE: 1"= 20.0'



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SITE INFRASTRUCTURE SUMMARY INFORMATION:

- INLET/MANHOLE STRUCTURE**
- NEW STRUCTURE a**
NEW 4.0'dia. PRECAST CONCRETE STORM MANHOLE
(CASTING: NEENAH R-1733)
T.C.= 848.50
INV. IN N 12"hdpe= 843.03
INV. IN NE 18"rcp= 843.68
INV. OUT SW 18"rcp= 842.72
 - NEW STRUCTURE b**
NEW 6.0'sq. PRECAST CONCRETE STORM INLET
(CASTING: NEENAH R-3433)
T.C.= 848.12
INV. IN N 12"rcp= 844.25
INV. IN E 15"rcp= 844.62
INV. OUT W 12"hdpe= 843.07
INV. OUT SW 18"rcp= 843.75
 - NEW STRUCTURE c**
NEW 2.5'sq. PRECAST CONCRETE STORM INLET
(CASTING: NEENAH R-3433)
T.C.= 848.42
EX. INV. IN NE 12"cmp= 846.58
INV. OUT W 15"rcp= 844.92
 - NEW STRUCTURE d**
NEW 2.0'sq. PRECAST CONCRETE STORM MANHOLE
(CASTING: NEENAH R-1733)
T.C.= 849.15
INV. IN W 12"rcp= 844.63
INV. OUT S 12"rcp= 844.53
 - NEW STRUCTURE e**
NEW 2.0'sq. PRECAST CONCRETE STORM INLET
(CASTING: NEENAH R-3234-B1)
T.C.= 848.05
INV. OUT S 12"rcp= 844.80
 - NEW STRUCTURE f**
NEW AquaSwirl CONCENTRATOR UNIT MODEL AS-4 CFD STD PCS (SEE SITEWORK DETAILS)
T.C.= 848.43
INV. IN E 12"hdpe= 843.05
INV. OUT S 12"hdpe= 843.05
 - NEW STRUCTURE g**
NEW PRE-MANUFACTURED CONC. END SECTION
INV.= 847.44
 - NEW STRUCTURE h**
NEW PRE-MANUFACTURED CONC. END SECTION
INV.= 847.22
 - NEW STRUCTURE 1**
47.06 L.F. OF NEW 18"rcp PIPE AT 0.26% SLOPE
 - NEW STRUCTURE 2**
26.64 L.F. OF NEW 18"rcp PIPE AT 0.26% SLOPE
 - NEW STRUCTURE 3**
68.56 L.F. OF NEW 15"rcp PIPE AT 0.44% SLOPE
 - NEW STRUCTURE 4**
88.00 L.F. OF NEW 12"rcp PIPE AT 0.32% SLOPE
 - NEW STRUCTURE 5**
54.98 L.F. OF NEW 12"rcp PIPE AT 0.31% SLOPE
 - NEW STRUCTURE 6**
16.72 L.F. OF NEW 12"hdpe PIPE AT 0.12% SLOPE
 - NEW STRUCTURE 7**
11.21 L.F. OF NEW 12"hdpe PIPE AT 0.12% SLOPE
 - NEW STRUCTURE 8**
23.00 L.F. OF NEW 12"rcp PIPE AT 0.96% SLOPE



REVISION
04/14/2022 revised plan per reviewer's comments



VERSATILE CONSTRUCTION GROUP, LLC.

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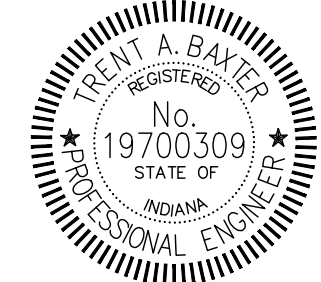
Site Renovations to:

Village Pantry
899 E Main Street
Greenwood, Indiana 46143

Site Grading Plan

Job No.:	Date Stamped:
21072	01/04/2022
Drawn By:	Checked By: Scale:
caw	tab 1"= 20.0'

CAD FILE:
G:\21072\c400 site grading plan.dwg

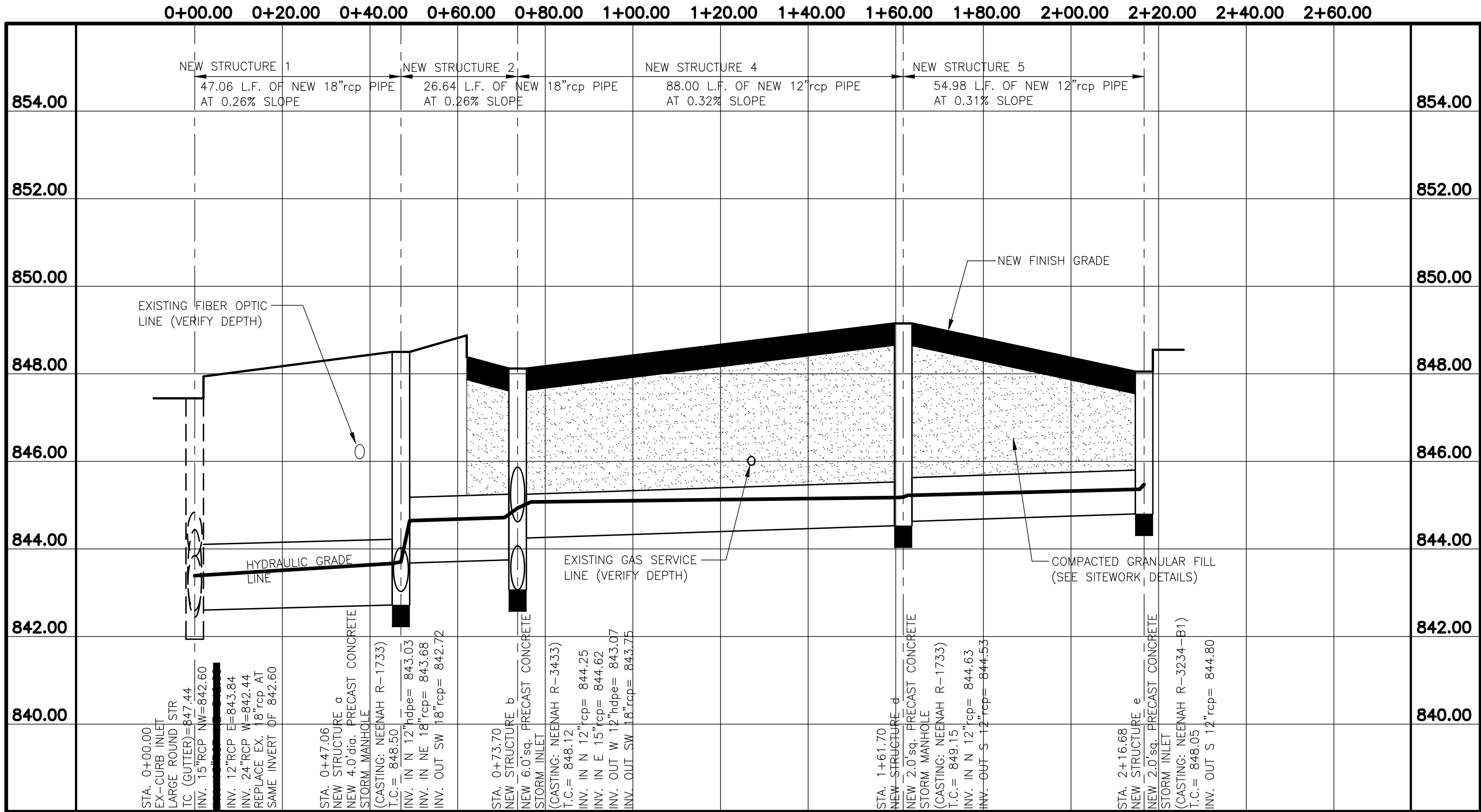


Trent A. Baxter
CERTIFIED BY:

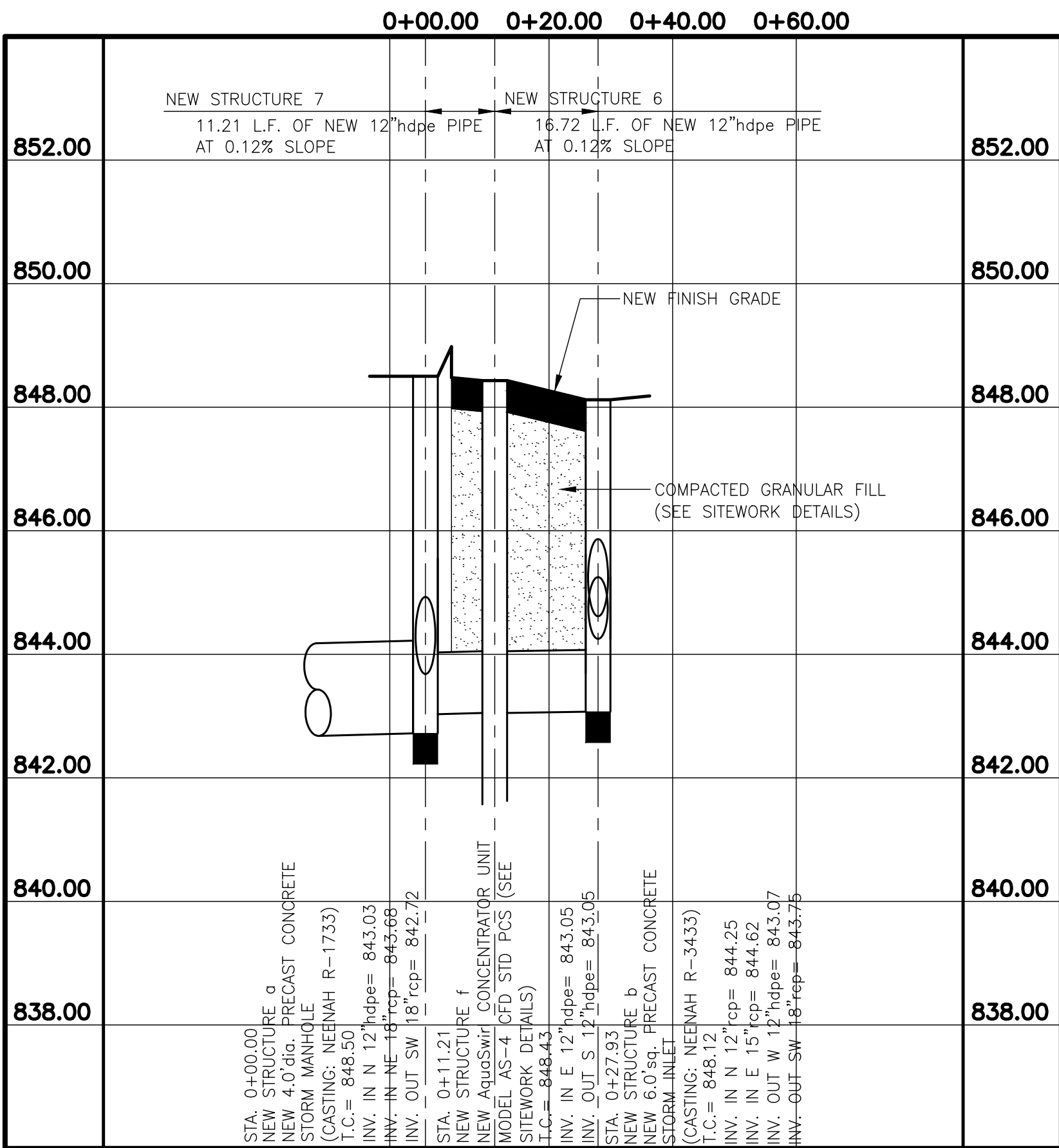
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SHEET TITLE:

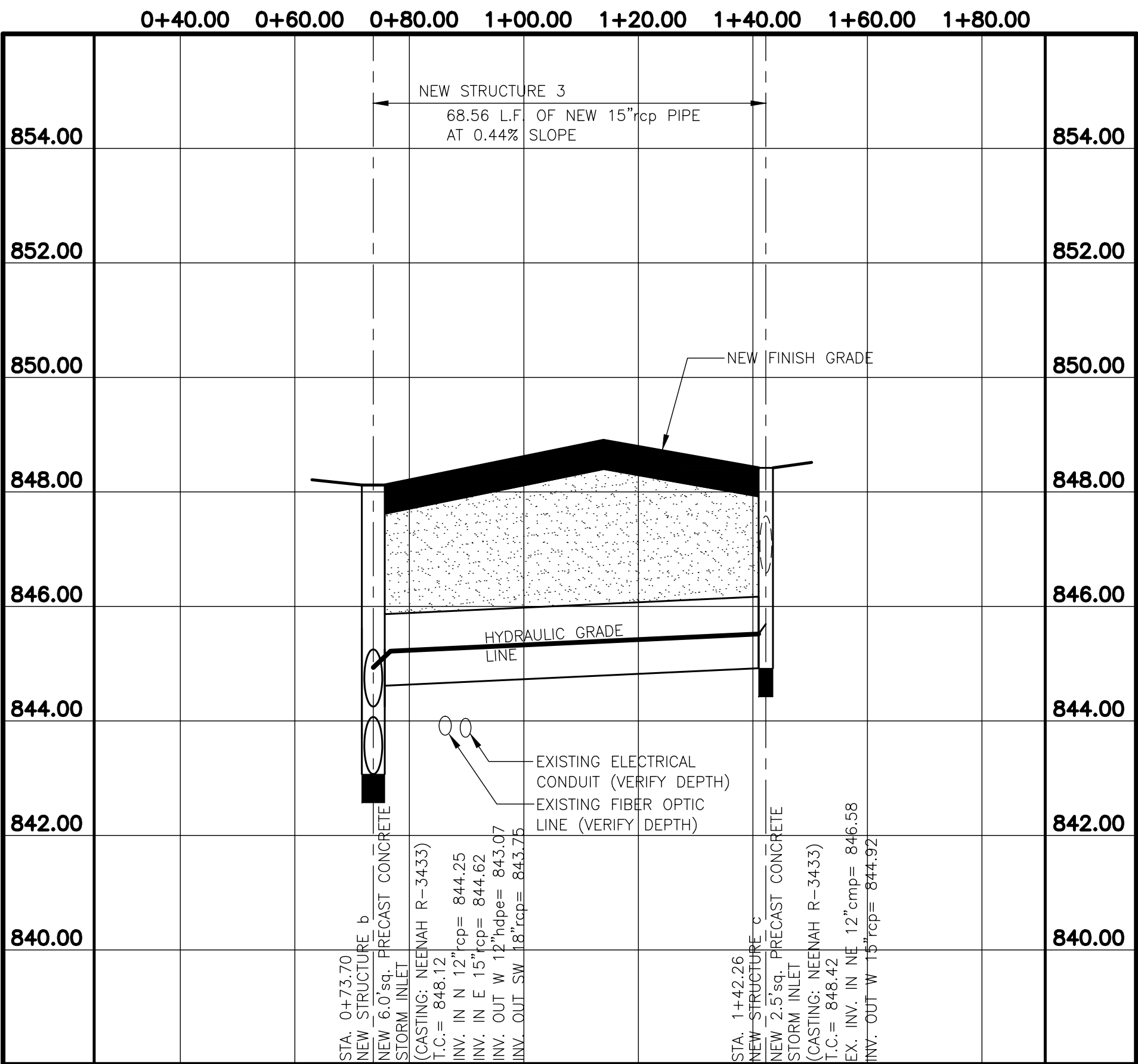
C400



STORM SEWER PROFILE EXISTING
STRUCTURE thru No.e
SCALE: 1"= 20.0' (HORIZ.)
SCALE: 1"= 2.0' (VERTICAL)



STORM SEWER PROFILE
(AquaSwirl) LINE
SCALE: 1"= 20.0' (HORIZ.)
SCALE: 1"= 2.0' (VERTICAL)



STORM SEWER PROFILE
STRUCTURE No.b thru No.c
SCALE: 1"= 20.0' (HORIZ.)
SCALE: 1"= 2.0' (VERTICAL)



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REVISION

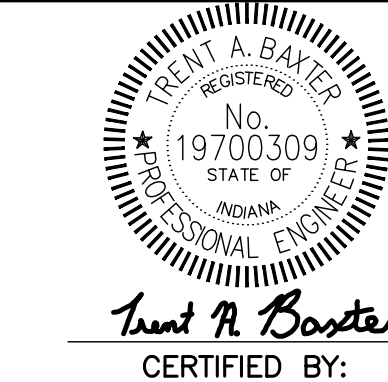


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CONSTRUCTION
GROUP, LLC.

570 East Troy Road, Suite #10
New Whiteland, Indiana 46184
Ph: 317.535.3579 Fax: 317.535.3581

Site Renovations to:
Village Pantry
899 E Main Street
Greenwood, Indiana 46143
Storm Sewer Profiles Plan

Job No.: 21072 Date Stamped: 01/04/2022
Drawn By: caw Checked By: tab Scale: 1"= 20.0'
CAD FILE: G:\21072\c410 storm sewer profile plan.dwg

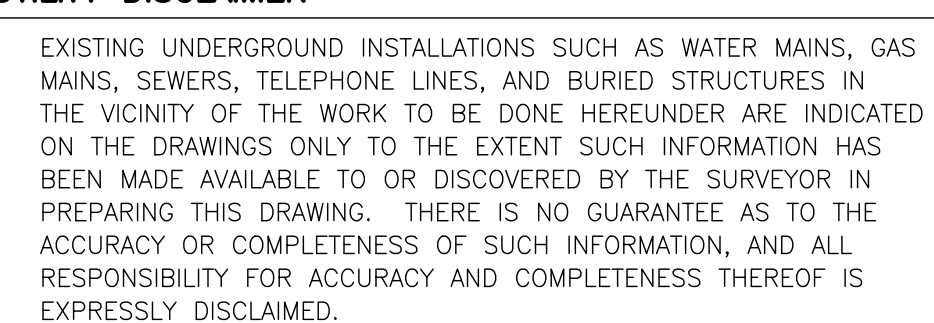


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SHEET TITLE:

C410



GENERAL: WHEREVER A CONFLICT OR DEFICIENCY OCCURS BETWEEN THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THIS IMMEDIATE PROJECT AND THE CONSTRUCTION STANDARDS AND SPECIFICATIONS ADOPTED BY THE LOCAL GOVERN AGENCIES, THE HIGHER OR MORE RESTRICTIVE STANDARD OR SPECIFICATION SHALL APPLY.

A. STANDARD CONDITIONS

- The Contractor shall be responsible for obtaining or verifying that all permits and approvals are obtained from the respective city, county and state agencies prior to starting construction.
- It shall be the responsibility of each utility, contractor and/or sub-contractor to obtain all permits and approvals to open cut any road from the appropriate department.
- It shall be the Contractor's responsibility to determine the exact location of all existing utilities in the vicinity of the construction area prior to starting construction.
- It shall be the Contractor's responsibility for notification and coordination of all construction with the respective utility companies.
- It shall be the responsibility of the Developer and Contractor to maintain quality control throughout the project; failure to do so may result in removal and replacement of the defective work. It is recommended that the Developer have a qualified inspector on the job site at all times during construction.
- It is essential that the work be done in conjunction with this project shall be installed according to these specifications. The engineer will be required to certify to certain portions of this project upon completion. Therefore, it is necessary to obtain approval and acceptance by the city, county, state or governy agency that construction was done in compliance with these plans and specifications.

B. CLEARING AND GRUBBING

- Clearing and grubbing shall consist of cutting removal and satisfactory disposal of all trees, down timber, brush, projecting roots, stumps, rubbish, boulders, broken concrete, fencing (as designated), and other material on the project site and within the boundary as shown on the construction documents and/or as designed by 'construction limits'.
- Special instructions shall be taken to insure that trees to be left remaining in the project area shall not receive limb, bark or root injuries. When such injuries occur, all rough edges of scarred areas shall be removed in accordance with accepted horticultural practice and the scars coated thoroughly with an asphaltum base free point.
- All "unsuitable material" from clearing operations stated in items B-1 shall be remove to disposal area(s) off of the project site; unless a "bury pit" shall be utilized in an area where it shall not be beneath building areas and/or pavement areas and shall not be located in an area where storm drainage structures shall be located or where impoundment of surface drainage may occur.
- Material shall not be disposed of by burying unless approved by the local and state fire marshal.

C. TREE REMOVAL AND PROTECTION

- Trees should only be cleared only where the area is to be occupied by road and surfaced areas in accordance with specifications of the city, county, state or govern agency.
- Trees shall be removed from the project site or buried within the project as directed by the Developer and only in the areas designated.
- Trees shall be removed from the project where they interfere directly with the placement of storm or sanitary sewers and that such excavation is or will be fatal to such adjacent trees.
- The Contractor shall endeavor to save and protect trees of value and work which do not impair construction of improvements as designated. In the event cut or fill exceeds 0.5 foot over the root area, the Developer shall be consulted with respect to protective measures to be taken, if any, to preserve such trees.
- The contractor shall be responsible for determining the method for protection of tops, trunks and roots of existing trees on the project site that are to remain. Existing trees subject to construction damage shall be boxed, fenced or otherwise protected before any adjacent work is started. Earth or material or equipment shall not be stockpiled or stored within the spread of branches. Branches which need to be removed or are broken shall be neatly trimmed and shall be covered with tree point.

D. STRIPPING OF TOPSOIL

- The contractor shall verify that all topsoil has been removed in the areas to be occupied by roads, walks and designated building areas. Topsoil shall be removed to a depth of six (6) inches or deeper, if necessary, to remove vegetable matter where required.
- Topsoil shall be kept separated from suitable fill materials and shall not be used to fill under pavement and/or building areas. Operations. Excess topsoil shall be spoiled on the site as directed by Owner or Engineer.
- Topsoil placed on the lot shall be reasonably free from subsoil debris and stones.

E. GRADING

- The contractor shall perform all grading operations to bring subgrades, after final compaction, to the required grades and sections of site improvements.
- Subgrade shall be proofrolled with suitable equipment and all spongy and otherwise unsuitable material shall be removed and replaced with suitable material.
- Subgrade shall be prepared in compliance with I.N.D.O.T. Standard Specifications, latest Edition - Section 207, as revised, with the city, state or govern agencies approving the subgrade before paving.
- All fill materials shall be formed from soil free of deleterious material. Prior to placement of fill a sample of the proposed fill material should be submitted to the soils Engineer for his approval.
- All fill material in areas outside of building and pavement areas shall be compacted lightly and protected from erosion by one or more of the methods of item C. areas for building and pavement construction shall not have unsuitable material placed in the location and fill shall be compacted to 95% Standard Proctor. These areas shall be determined by the Developer's representative.

F. SANITARY SEWERS

- GENERAL
 - Current city, state or govern agencies specifications shall prevail as to materials and methods of construction.
 - The contractor shall be responsible for obtaining or verifying all permits for all of portions of this project prior to starting construction.
 - Sanitary sewers shall be installed in accordance with the Indiana Department of Environmental Management (Division of Water Management).
 - None of the sanitary sewers are to be constructed until a letter of approval from the Department of Environmental Management has been received by the Engineer. The Engineer will then contact the Developer or Contractor of the said approval.
- GRAVITY SANITARY SEWERS
 - The Department of public works currently allows the use of the following pipe materials meeting or exceeding the minimum requirements/specifications set forth herein for the construction of gravity sanitary sewers:
 - Polyvinyl Chloride Pipe (PVC)
 - Ductile Iron Pipe (DIP)
 - Vitrified Clay Pipe (VCP) is NOT an approved material for the construction of sanitary sewers.

F. (CONTINUED)

- In general, all gravity sanitary sewer pipe shall be the bell and spigot type with elastomeric seal joints and smooth interior walls meeting or exceeding all requirements set forth in the latest ASTM standard reference herein.
- THE DEPARTMENT DOES NOT ALLOW THE USE OF SOLVENT CEMENT JOINT FOR GRAVITY SANITARY SEWERS EIGHT (8) INCHES IN DIAMETER OR LARGER.
- Each length of pipe shall be marked per the requirements of the respective ASTM Standards.
- GRAVITY SANITARY SEWERS MATERIALS
 - Pipe: Polyvinyl Chloride (PVC) gravity sanitary sewer pipe shall be the integral wall bell and spigot type with elastomeric seal joints and smooth inner walls meeting or exceeding all the requirements set forth on ASTM F-679 for pipe diameters greater than 15 inches.
 - For diameters 15 inches or less, the pipe shall have a minimum cell classification of 12454-B or 12454-C and for diameters greater than 15 inches, the pipe shall have a minimum cell classification 12454-C; with all pipe having a minimum tensile strength of 3450 MPA as defined in ASTM D-1784.
 - PVC sanitary sewer pipe shall have a minimum stiffness of 46 PSI for each diameter when measured at 5% vertical ring deflection and tested in accordance with ASTM D-2412.
 - Polyvinyl Chloride (PVC) ribbed sewer pipe meeting or exceeding requirements set forth in ASTM F-949-86a or ASTM F-794 is acceptable. The minimum cell classification acceptable shall be 12454-B or 12454-C as defined in ASTM D-1784. PVC ribbed sewer pipe shall have a minimum pipe stiffness of 50 psi when measured in accordance with ASTM D-2412.
 - Design: The minimum wall thickness for PVC sewer pipe and lateral sewer pipe 15" inches or less in diameter shall conform to SDR-35 Type PSM as specified in ASTM D-3034. The minimum wall thickness for PVC sewer pipe greater than 15" inches in diameter shall conform to T-1 as specified in ASTM F-679.
 - Marking: The date of manufacture, class of pipe, specification designation, size of pipe, name or trademark of manufacturer, and identification of plant location shall be legible marked on the outside of each pipe section in accordance with the ASTM D-3034.
 - Certification: The contractor upon request shall furnish the Department with manufacturer's certification stating that the pipe supplied meets or exceeds all requirements of the applicable ASTM standards and these standards.
 - Joints
 - Flexible gasketed joints shall be compression type so that when assembled, the gasket inside the bell will be compressed radially on the pipe spigot to form a watertight seal. The assembly of joints shall be in accordance with pipe manufacturer's recommendations and ASTM D-3212. The gasket sealing the joint shall be made of rubber; of special composition having a texture to assure a watertight and permanent seal, and shall be the product of a manufacturer having at least (5) five years experience in the manufacture of rubber gaskets for pipe joints. The gasket shall be a continuous ring of flexible joint rubber of a composition and texture which is resistant to common ingredients of sewage, industrial wastes and groundwater, and which endure permanently under the conditions likely to be imposed by this service. The gasket shall conform the requirements of ASTM F-477.
 - NO SOLVENT CEMENT JOINTS SHALL BE ALLOWED.
 - Fittings
 - Only manufactured fittings made of PVC plastic having a cell classification of 12454-B or 12454-C as defined in ASTM D-1784 shall be used.
 - Saddle connections shall not be allowed for new construction.
 - DUCTILE IRON PIPE
 - Material: Ductile iron pipe in diameters from eight (8) inches through thirty six inches (36) shall be centrifugally cast and ANSI conform to: ANSI Specifications A-21.51 and AWWA C-151 latest revision. Ductile iron pipe shall be class 50, 51, 52 or 54 wall thickness dependent upon site conditions and provided in minimum laying lengths of eighteen (18) feet. Ductile iron pipe larger than thirty six (36) feet in diameter shall be approved on a case by case basis by the department.
 - Fittings: Fittings shall be standardized for type the pipe of pipe and joint specified and shall comply with ANSI A-21.10, AWWA C-110.
 - Joints: Mechanical joints, slip or flanged joints shall be provided.
 - Weights and Marking: Weights of pipe fittings shall conform strictly to requirements of ANSI Specifications. The class designations for the various classes of pipe and fittings shall be cast onto fittings in raised numerals, and cast or stamped on the outside of each joint of pipe. Weights shall be plainly and conspicuously pointed in white on the outside of each joint of pipe and each fitting after the exterior coating has hardened.
 - Bedding and Backfill-Sanitary SewersThe following section provides the minimum requirements for the bedding of pipe and the backfilling of the trench.
 - Bedding-Sanitary Sewers
 - Trenching where the bottom of the trench is of undesirable material, an additional six(6) inches of trench bottom shall be excavated and a stable foundation shall be constructed using compacted No. 2 crushed stone.
 - All sanitary sewer pipe shall be laid to the lines and grade shown on the approved design plans unless otherwise approved by the department.
 - Bedding material shall be compacted No. 8 crushed stone or No. 8 fractured face aggregate and shall be placed the trench bottom such that after the pipe has been placed thereon, imbedded to grade and aligned, there remains a 4-inch minimum depth of material below the pipe barrel and a minimum of 3-inches below the bell.
 - The bell holes shall be excavated so that the entire pipe barrel rests on the bedding. The following presents the bedding requirements for each pipe classification:
 - Flexible Pipe: PVC Pipe
 - No. 8 crushed stone or No. 8 fractured face aggregate shall be placed around the sides of the pipe up to the sides of the pipe to the springline(1/2 the outside diameter). The material shall be shovel sliced or otherwise carefully placed and "walked" or hand tamped in to ensure compaction of the haunch area and complete filling of all voids. From the springline to twelve(12) inches above the crown of the pipe, bedding shall be added in six(6) lifts "walked" in for compaction. Backfilling of the remainder of the trench shall be as specified in the section
 - Semi-Rigid Pipe: Ductile Iron Pipe
 - No. 8 crushed stone or No. 8 fractured face aggregate shall be placed around the sides of the pipe up to the springline(1/2 the outside diameter). This material shall be shovel sliced or otherwise carefully place and "walked" or hand tamped in to ensure compaction of the haunch area and complete filling of all voids.
 - From springline to six(6) inches, of 1/2 the outside diameter above the top of the pipe, whichever is larger, bedding shall be added in six(6) lifts "walked" in for compaction.
 - Backfilling of the remainder of the trench shall be a specified later in the section.
 - Backfilling Sanitary Sewers
 - Backfill Materials
 - The following materials shall be used to backfill the trenches in accordance with and in the manner indicated by the requirements specified herein:

F. (CONTINUED)

- Class 1 Angular, six(6) to forty(40) millimeters(1/4 to 1 1/2 inch) graded stone such as crushed stone.
- Class 2 Course sands and gravel with maximum particle size forth (40) millimeters (1 1/2 inch), including variously graded sands and gravel containing small percentage of fines, generally granular and non-cohesive, either wet or dry. Soil types GW, GP, SW and SP are included in this class.
- Class 3 Fine sand and clay gravel,fillincluding sands, sand-clay mixtures, silty clay mixtures, Soil types GM, GC, SM and SC are included in this class.
- Class 4 Silty, silty clays and clays, including silts of medium to high plasticity and liquid limits. Soil types MH, ML, CH, and CL are included in this class. These materials are not recommended for bedding.
- Backfill Around Pipe (bedding): Bedding and backfill materials shall be agreed upon prior to construction by the Engineer and the Contractor. Sample will be obtained and kept at the Engineer's office. No significant deviation from this material will be permitted for use without authorization by the Engineer and the Department.
- The term "select fill" shall mean the use of Class 2 or 3 backfill materials as described above.
- Areas Subject to Vehicular Traffic
 - In areas under proposed or existing paved roads or within five feet of pavement, sidewalks, curbs, gutters or similar structures, granular backfill material complying with the requirements of the Indiana Department of Transportation Standard Specifications, latest Edition, as revised, shall be used.
 - The material shall be placed in uniform layers not six(6) inches, loose measurement. Within three(3) feet of the sanitary sewer pipe the backfill material shall be thoroughly and uniformly compacted with hand held mechanical tampers. The remaining backfill material shall be compacted with mechanical tampers. A minimum compaction of 95% percent Standard Proctor Density shall be achieved within the backfill material.
 - Jetting or flooding of the backfill or other alternative compaction methods and materials shall not be used without the approval of the city Department of Sanitation or Indiana Department of Transportation, dependent upon jurisdictional authority.
- Workmanship
 - Laying of Pipe in Cold Weather
 - The Engineer reserves the right to order pipe installation discontinued whenever, in our opinion, there is danger of the quality of work being impaired because of cold weather. The Contractor shall be responsible for heating the pipe jointing material so as to prevent freezing of joints.
 - Do not lay any pipe on frozen ground. No flexible or semi-rigid pipe shall be laid when the air temperature is less than 32 F unless proper precautions per the manufacturer's recommendations are taken by the Contractor and the method is approved by the Engineer and Department.
 - When pipes with rubber gaskets or resilient-type are to be laid in cold weather, sufficiently warm the gasket or joint material so as to facilitate making a proper joint.
 - Abandoned Sewers
 - Sewers and storm water drains which are to be abandoned shall be bulkheaded with mortar and an eight(8) inch thick brick wall. Sewers, storm water drains, and sewer structures which are to be abandoned in place shall be filled with Sand or Cellular Concrete and plugged, unless otherwise indicated on the Plans.
 - Service shall be maintained in such sewers and drains until the Department shall order bulkheads placed. No timber bulkheads shall be allowed. All castings on such abandoned structures are the property of the Department and shall be salvaged by the Contractor and delivered as directed. Unless otherwise specified, all abandoned manholes, catch basins, and inlets shall be removed to a depth of three(3) feet below the proposed or established grade or existing street grade, whichever is lower.
 - Dewatering and Control of Surface Water:
 - Where groundwater is encountered, the Contractor shall make every effort necessary to secure a dry trench bottom before laying pipe. The Contractor shall provide, install and operate sufficient trenches, pumps, pumps, hose, piping, wellpoints, etc., necessary to depress and maintain the groundwater level below the base of the excavation. If the Contractor is unable to remove the standing water in the trench, the Contractor shall over-excavate the proposed bottom grade of the sewer, bedding and place at least three(3) inches of class No. 2 crushed stone (Indiana Department of Transportation aggregate classification) in the over-excavated area.
 - The Contractor and/or Owner shall be liable for all lawsuits, which may arise as a result of the Contractor's dewatering efforts.
 - The Contractor shall keep the site free of surface water at all times and shall install drainage ditches, dikes, pumps and perform other work necessary to divert or remove rainfall and other accumulation of surface water and/or groundwater shall be performed in a manner which prevent the accumulation of water within the construction area.
 - UNDER NO CIRCUMSTANCES SHALL SURFACE WATER AND/OR GROUNDWATER BE DISCHARGED TO, OR ALLOWED TO FLOW INTO THE CITY'S SANITARY SEWER SYSTEM.
 - Trenching
 - The width of the trench at and below the top of the sanitary sewer shall be only as wide as is necessary for proper installation and backfilling, and consistent with safety requirements. The minimum width of trench for sanitary sewers, including force mains, 42-inches in diameter and less shall be 1.25 times the outside diameter (O.D.) plus 12-inches:

Minimum Trench Width (inches)= 1.25 (O.D.) +12
 - The minimum trench width for sanitary sewers larger than 42-inches in diameter shall be determined on a case by case basis by the Engineer and approved by the department.
 - The design plans and specifications submitted to the Department for review approval and issuance of a construction permit shall include a detailed trench drawing.
 - The design of the sewer pipe and structures is predicated upon the width of trench indicated above and, should these limits be exceeded, the Contractor shall be responsible for the provision and installation of such remedial measures as may be required by the Engineer and/or the Department.
 - Bell holes shall be excavated for bell and spigot pipe mechanical joint pipe, so that the entire barrel of the pipe shall rest on the bedding.
 - The pipe trench shall not be excavated more than one hundred(100) feet in advance of pipe laying.
 - Whenever pipe trenches are excavated below the designed bedding bottom, the Contractor shall fill the over-excavated with mechanically compacted No. 8 (1/4) inch to 3/4 (inch) crushed stone or No. 8 fractured face aggregate.
 - All rock, boulders and stones 6-inches in diameter and larger encountered in trenches shall be removed.
 - Boulders or rocks are not to be used for trench backfill.
 - In cases where material is deposited along open trenches, the material shall be placed so that no damage will result to the work or adjacent property as a result of rain or other surface wash.

F. (CONTINUED)

- If the bottom of the trench is of undesirable material, an additional six(6) inches of trench bottom shall be excavated and a stable foundation shall be constructed using compacted No. 2 crushed stone or No. 8 fractured face aggregate and compacted using a hand held mechanical tamper. Where the distance to stable ground is excessive, the Engineer shall order in writing other types of foundation as he deems necessary subject to the approval of the Department.
- Remove any rock(s) encountered within six(6) inches below the bottom of the trench. Replace with No. 8 crushed stone or No. 8 fractured face aggregate and compact.
- Trench Box Pulling and Sheeting
 - When required by the Occupational Safety and Health Act (OSHA) to protect life, property, or the work, sheet and brace all open cut trenches in accordance with CFR 1926. Upon completion of the work, all temporary frames, shores, and bracing shall be removed, all vacancies or voids by the sheeting while being withdrawn, shall be carefully filled with bedding material.
 - The Contractor shall employ adequate safeguards to prevent movement of the pipe joint. If any movement should occur, the Contractor shall reinstall the pipe.
 - Any damage to pavement or other structures due to sheeting , shoring, or bracing shall be repaired by the Contractor at his own expense.
 - Sheeting and bracing which is to remain place shall be cut off at the elevation of 1.5 feet above the top of the sewer pipe.
- Line and Grade
 - The Contractor shall furnish and set all line and grade stakes (HUB) and stakes for bench marks. The bench marks shall be set in strategic locations of the project in order to facilitate the Contractor's installation of the line and grade stakes (HUB) for each pipeline. Only the laser method shall be used to set the grade of the pipeline. Any other method must first be approved in writing by the Department. The Contractor shall constantly check line and grade of the laser beam and the pipe.
 - Installation of Sanitary Sewers: Suitable tools and equipment shall be used for the safe and convenient handling and laying of pipe. Great care shall be taken to prevent pipe coating or wrappings from being damaged. Carefully examine all pipe for cracks and other defects.
 - No pipe or fittings shall be laid which are know to be defective. If pipe or fittings are discovered to be cracked, broken or defective after being laid, they shall be removed and replaced with ground material.
 - Thoroughly clean all pipe and fittings before installation. All pipe and appurtenances should be kept clean until accepted and completed work.
 - All field-cutting shall be done in a neat, trim manner using a hand or power saw and the cut end shall be beveled using a file or wheel to produce a smooth wedge of approximately 15" and be a minimum depth of one third the pipe wall thickness. Field cut pipe will only be allowed to be installed at manholes, at prefabricated trees and wyes, and at the connection of new sanitary sewer to existing sanitary sewer.
 - NOTE: Only smooth exterior pipe shall be used at manhole connections.
- Point of Commencement and Direction of Laying
 - The point of commencement for laying of sewer pipe shall be the lowest point in the proposed sewer line. Lay the pipe with the bell end of bell and spigot pipe or with the receiving groove end of tongue and groove pipe pointing upgrade. Any other procedure shall be followed only with permission of the Department.
 - Lay each pipe on an even firm bed as specified so that no uneven stress comes to any part of the pipe. Particular care shall be exercised to prevent the pipes from bearing on the sockets. Dig all bell holes for bell and spigot pipe.
 - Completely shove home all pipe (to the assembly mark). On pipe of the tongue prove type thirty(30) inches and larger in diameter, pressure must be applied to the center of each pipe as it is laid by a winch and cable or other mechanical means.
 - All connection fittings shall be sealed with watertight stopper.
 - The Contractor shall extend the building eye lateral to the right-of-way and shall place a one(1) inch cast iron locator rod or magnetic locator tape above the end of the pipe to within three(3) feet of the ground surface. The purpose is to provide for ease of location of the wye stub.
- Construction Bulkheads
 - Before extending a sanitary sewer, the Contractor shall provide a watertight bulkhead in the existing sewer immediately down-drain of the point of connection. This bulkhead shall be left in place until the new sanitary sewer has been cleaned of all accumulated water and debris and accepted by the Department.
 - During all intermissions in construction of the sanitary sewer pipe, the open face of the last pipe laid shall be plugged, covered or bulkhead so as to prevent sand, water, earth or other materials from entering the pipe.
 - Whenever pipe and special castings are required to be cut, the cutting shall be done by skilled workmen in a wach manner as to leave a smooth end at right angles to the axis of the pipe without damage to the pipe casting or cement lining. CUTTING TORCHES SHALL NOT BE USED.
- RELATIONSHIP TO WATER MAINS
 - Horizontal Separation
 - Sewers shall be laid at least 10 feet (3.0 m) horizontally from any existing or proposed water main. The distance shall be measured edge to edge. In cases where it is not practical to maintain a ten foot separation, the appropriate reviewing agency may allow deviation on a case-by-case basis, if supported by data from the design engineer such deviation may allow installation of the sewer closest to the water main, provided that the water that the water main is in a separate trench or on a construction that the sewer is located on one side of the sewer and at an elevation so the bottom of the water main is at least 18 inches (46 cm) above the top of the sewer.
 - Crossings
 - Sewer crossing water mains shall be laid to provide a minimum vertical distance of 18 inches (46 cm) between the outside of the water main and the outside of the sewer. The sewer shall be above the water main, either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to prevent damage to the water main.
 - Special Conditions
 - when it is impossible to obtain proper horizontal and vertical separation is stipulated above, the sewer shall be designed and constructed so that the sewer pipe, and shall be pressure tested to assure watertightness prior to backfilling.
- Testing Gravity Sanitary Sewers
 - General
 - The contractor shall bear the complete cost and supply all equipment necessary to perform the test required.
 - All test shall be conducted under the observation of the Department's Observer. It shall be the Contractor's responsibility to schedule testing with the Observer.
 - Certifications: The Contractor upon request shall furnish the department with certified reports stating that inspection and specified test have been made and that the results thereof comply with the applicable ANSI Specifications and these standards for each.

F. (CONTINUED)

- Infiltration/Exfiltration Test
 - Once constructed, all sanitary sewers and manholes watertight and free from leakage. The rate of infiltration into the sanitary sewer system between any two adjacent manholes or the entire system shall not be in excess of 100 gallons per inch of pipe diameter per mile per day (100 gpd/inch). The Contractor shall be required to repair all visible leaks to satisfaction of the Department, even if the infiltration requirements are met.
 - Any leakage found during the infiltration test shall be corrected by the Contractor at his expense. The method of repair shall be per the approval of the Department; however, grouting of the joint or crack to repair the leakage shall not be permitted. If the defective portion of the sanitary sewer cannot be located, the Contractor shall remove and reconstruct as much of the work as is necessary to obtain a system that passes infiltration requirements.
- Deflection Test
 - All gravity sanitary sewers constructed of flexible pipe (PVC) shall be mandrel tested no sooner than thirty (30) days after installation. The deflection limit is 5% of the inside diameter of the pipe. Mandrel must be pulled through by hand with no mechanical device. Any failed section of pipe shall be reinstalled by the Contractor at no cost to the owner.
 - Low Pressure Air Test (Gravity Sewer)
 - All gravity sanitary sewers shall be tested for infiltration by means of a low pressure air test. A minimum of 5 p.s.i. must be maintained in the pipe for a period of no less than 5 minutes

REVISION
04/14/2022 revised plan per reviewer's comments



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Site Renovations to:
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General Notes

Job No.:	Date Stamped:
21072	01/04/2022
Drawn By:	Checked By: Scale:
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