

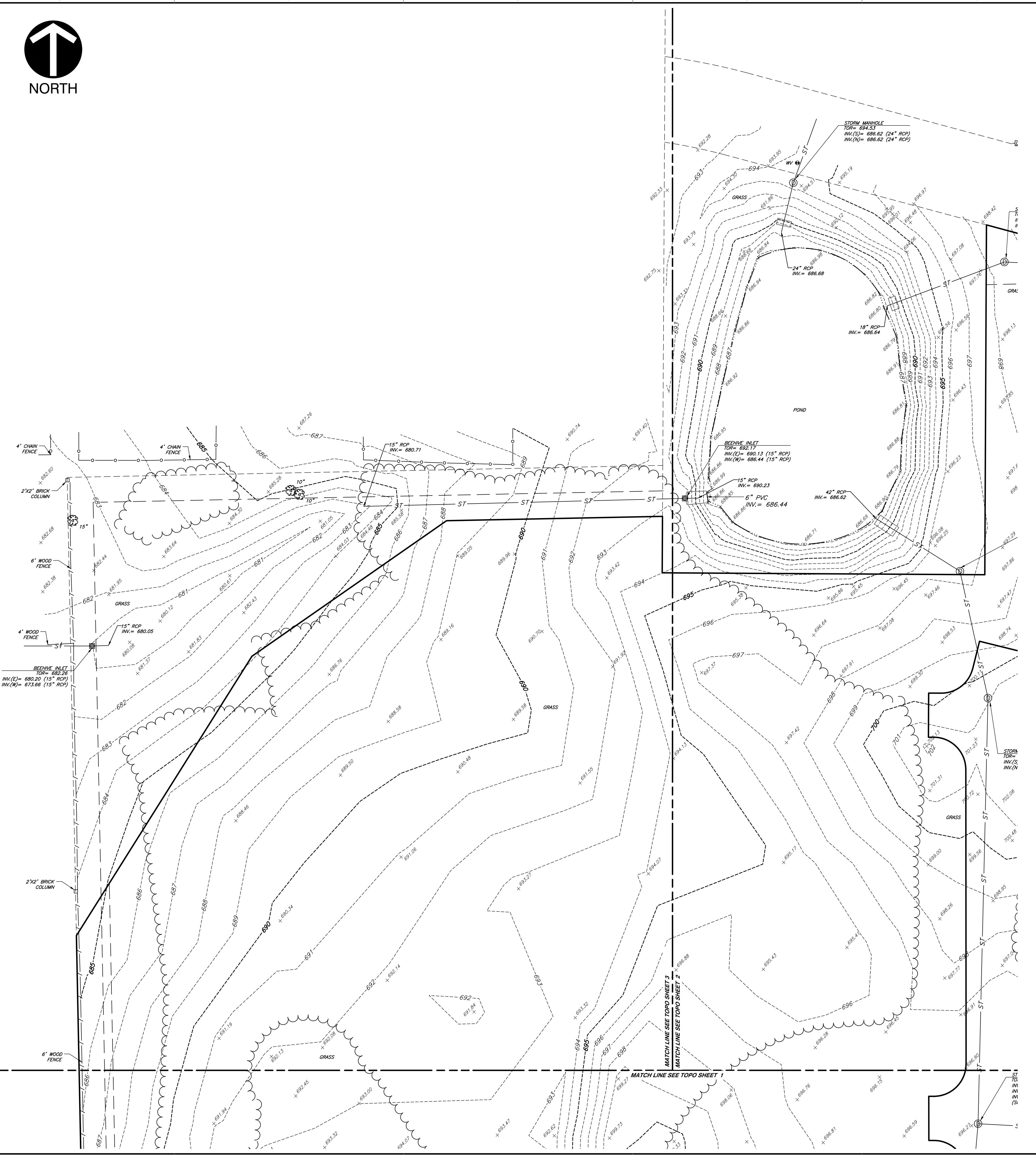








**NORTH**



## **BENCHMARKS:**

---

UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.

TBM#1: CUT SQUARE ON THE WEST SIDE OF A CONCRETE LID OF A FORCE  
MAIN MANHOLE ON THE EAST SIDE OF MORGANTOWN ROAD ACROSS FROM THE  
NORTHERN MOST CURB CUT ENTRANCE TO THE SITE. ELEV. - 706.84

ELEV. = 706.84

VALLEY ROAD. ELEV. = 695.82

TBM#3: CUT X ON THE ARROW BOLT OF A HYDRANT LOCATED IN THE  
SOUTHWEST CORNER OF THE SITE. ELEV. = 699.89

## **UTILITY NOT**

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRIZE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR 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. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBERS 2204292249, 2204292299, AND 2204292346 WERE ISSUED FOR THIS SITE.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE 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.

### **LEGEND:**

EXISTING PROPERTY LINE	◊ E Ø Ø ET	ELEC. LIGHT POLE, PULL BOX, POWER POLE, UTILITY POLE, GUY WIRE, ELEC. TRANSFORMER
EXISTING ADJACENT PROPERTY LINE	● G ▼	GAS VALVE, GAS METER, GAS LINE MARKER
-----870----- EXISTING INDEX CONTOUR	(W) IR W W ☀ ● ⚡ ●	WATER MANHOLE, IRRIGATION CONTROL BOX, WATER TAP, WATER METER, FIRE HYDRANT, PIV VALVE, FIRE DEPT. CONNECTION, WATER VALVE
-----871----- EXISTING INTERMEDIATE CONTOUR	(E) -T- -C- FO	ELECTRIC MANHOLE, TELEPHONE PEDESTAL, CABLE PEDESTAL, FIBER OPTIC PULL BOX
-----○----- EXISTING CHAINLINK FENCE LINE	(B) I O M ■ ■ ■ D	BEEHIVE INLET, CURB INLET, RECESSED CURB INLET, DOWNSPOUT, SQUARE STORM INLET, CIRCULAR STORM INLET, DRAINAGE MANHOLE
-----□----- EXISTING IRON FENCE LINE	(MH) ◎ S C	UNKNOWN MANHOLE, CLEANOUT, SANITARY MANHOLE, COMBINATION MANHOLE
-----x----- EXISTING FENCE LINE	● O AC ⚡ •	MAIL BOX, SIGN, AIR COND., ADA SYMBOL, BOLLARD
-----○----- EXISTING GAURDRAIL	(PM) TR TR	PARKING METER, TRAFFIC POLE, TRAFFIC MANHOLE, PARKING SPACE COUNT
-----W----- EXISTING WATER LINE	(T)	DECIDUOUS TREE, CONIFEROUS TREE, BUSH
-----T----- EXISTING UNDERGROUND TELEPHONE	X 1082.40	EXISTING SPOT ELEVATION
-----FO----- EXISTING FIBER OPTIC LINE		
-----UG-E----- EXISTING UNDERGROUND ELECTRIC		
-----OH-W----- EXISTING OVERHEAD LINES		
-----SAN----- EXISTING SANITARY SEWER LINE		
-----CS----- EXISTING COMBO SEWER LINE		
-----ST----- EXISTING STORM SEWER LINE		
-----G----- EXISTING GAS LINE		
-----T----- EXISTING TREE LINE		



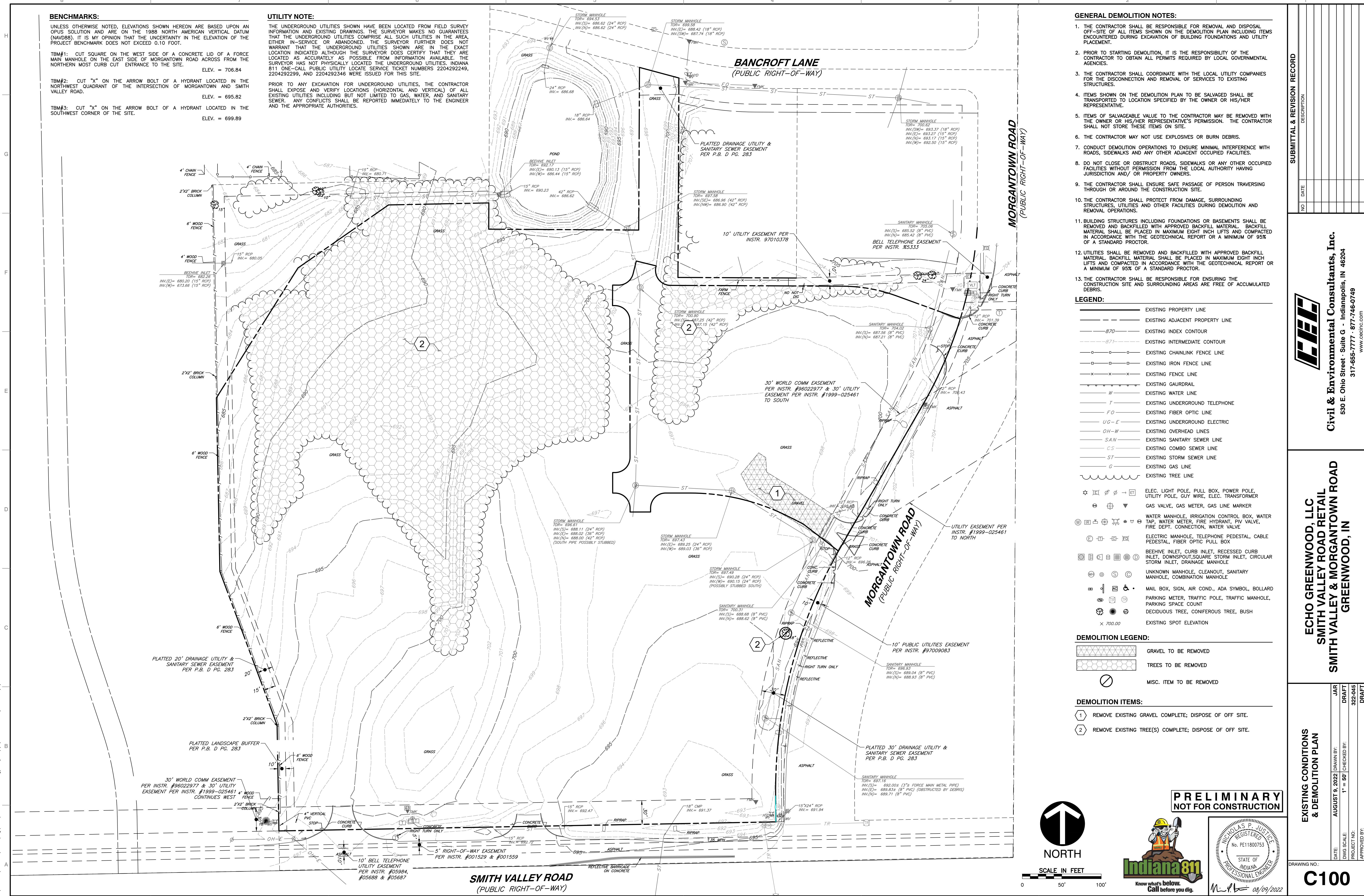
**ECHO REALTY COMPANY  
SMITH VALLEY & MORGANTOWN ROAD  
GREENWOOD, INDIANA**

## TOPOGRAPHIC SURVEY

DA  
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**TOPO**  
1 OF 3

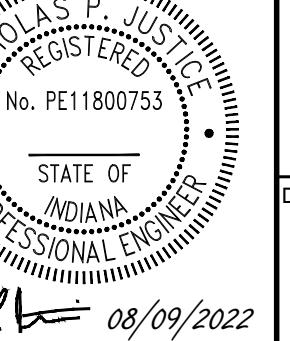
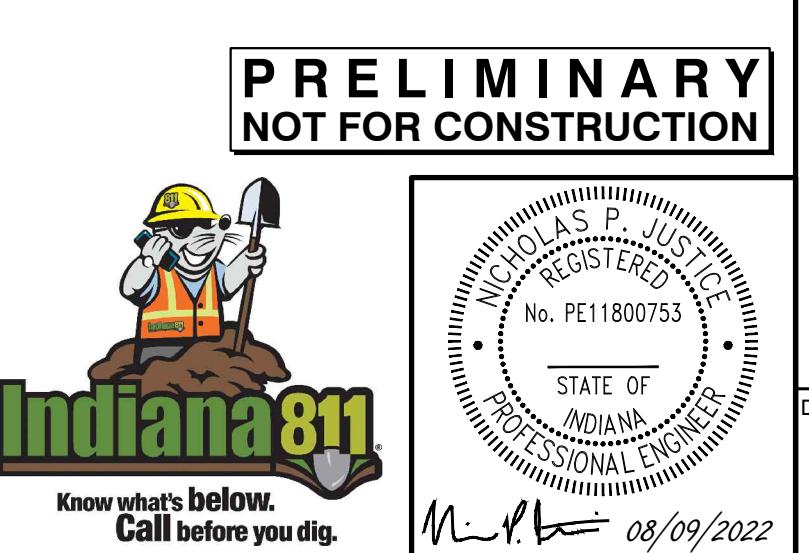
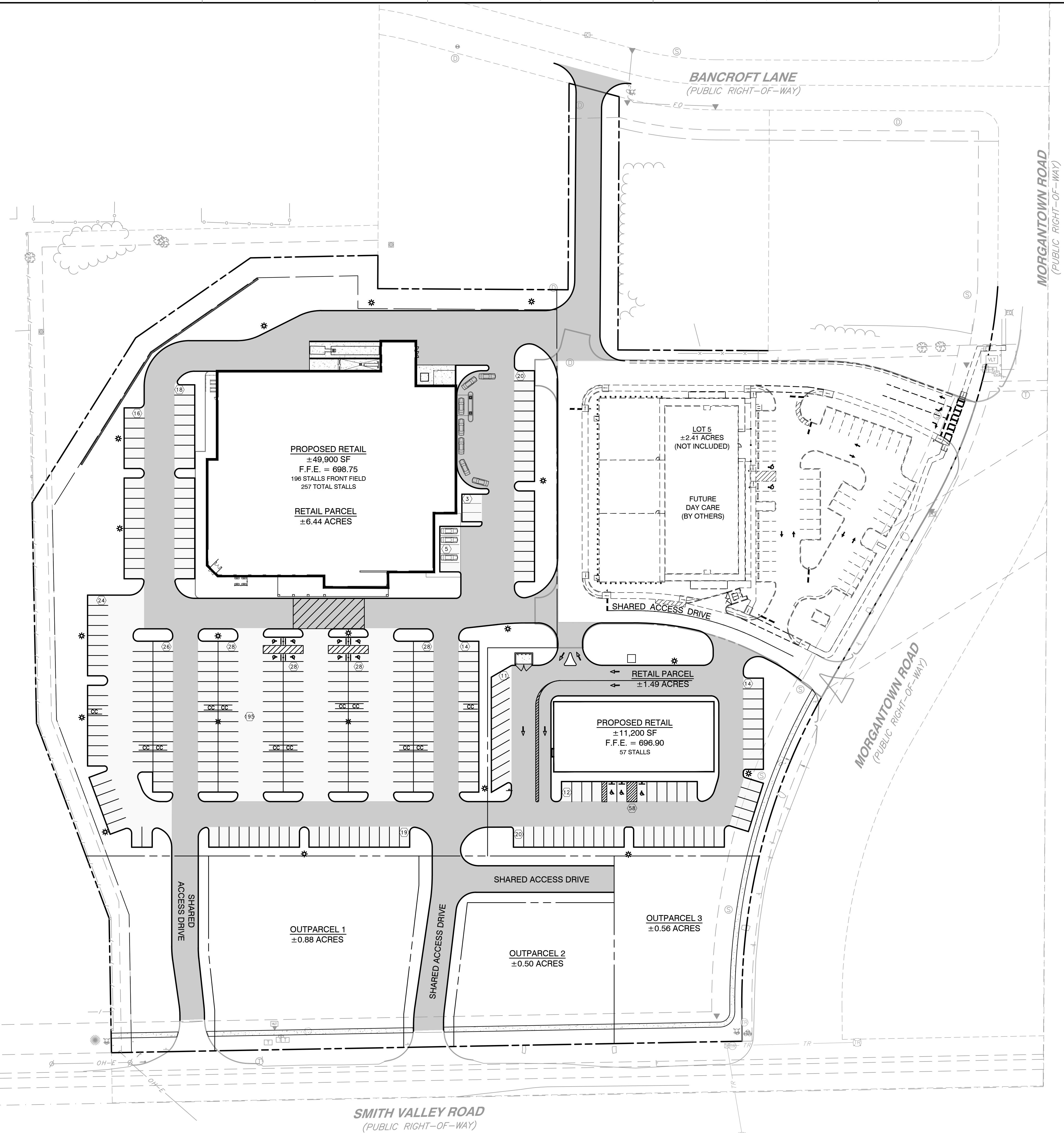
# TOPOGRAPHIC SURVEY

A topographic map page header. At the top right, there is a vertical column of letters: DA, DW, and PR. Below this, the text 'ING NO.: ' is followed by a large, bold, black word 'TOPO'. At the bottom, there is a horizontal row of numbers: '1', 'OF', and '3'.





NORTH



OVERALL SITE PLAN

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Civil & Environmental Consultants, Inc.  
530 E. Ohio Street • Suite G - Indianapolis, IN 46204  
www.cecinc.comECHO GREENWOOD, LLC  
SMITH VALLEY & MORGANTOWN ROAD  
GREENWOOD, IN

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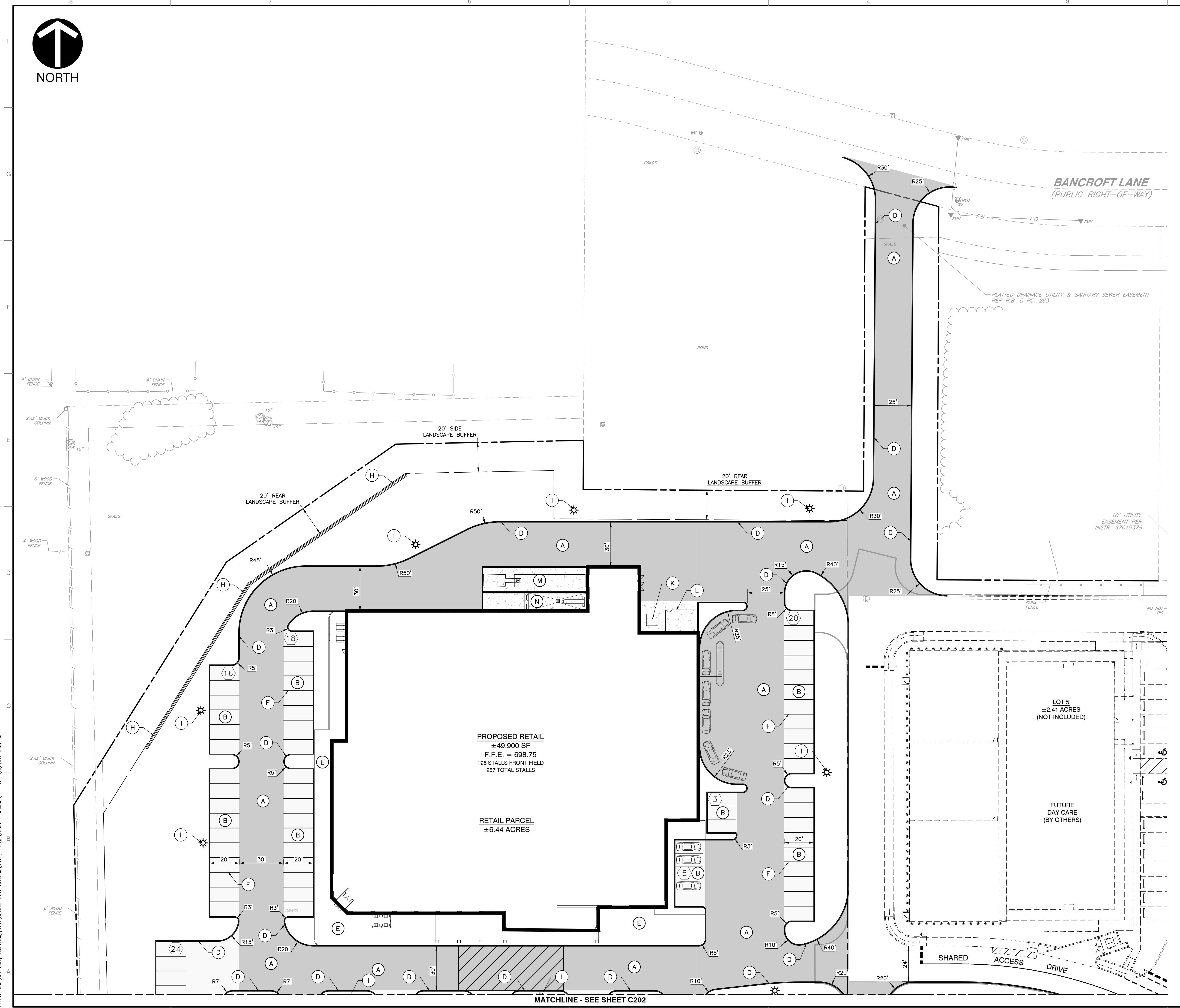
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NORTH



REFERENCE:	
1.	SEE DRAWING C200 FOR GENERAL NOTES AND SHEET SPECIFIC NOTES.
2.	CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
PROPOSED LEGEND:	
	PROPOSED LIGHT DUTY PAVEMENT
	PROPOSED HEAVY DUTY PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	PROPOSED ADA PARKING SYMBOL, PARKING BUMPER, SIGN, DETECTABLE WARNING STRIP
	PROPOSED PARKING COUNT
	PROPOSED LIGHT POLE

KEY NOTES	
(A)	HEAVY-DUTY ASPHALT; SEE DETAIL ON SHEET C800.
(B)	LIGHT-DUTY ASPHALT; SEE DETAIL ON SHEET C800.
(C)	CONCRETE PAVEMENT; SEE DETAIL ON SHEET C800.
(D)	6" CONCRETE CURB; SEE DETAIL ON SHEET C800.
(E)	CONCRETE SIDEWALK; SEE DETAIL ON SHEET C800.
(F)	4" WIDE PAINTED STRIPE; COLOR-WHITE
(G)	ADA PARKING SPACE; SEE DETAIL ON SHEET C800.
(H)	CONCRETE RETAINING WALL; SEE DETAIL ON SHEET C800. CONTRACTOR TO PROVIDE WALL SHOP DRAWINGS TO ENGINEER FOR APPROVAL.
(I)	LIGHT POLE; SEE DETAIL ON SHEET C800.
(J)	DUMPSTER ENCLOSURE
(K)	TRANSFORMER PAD
(L)	GENERATOR ENCLOSURE
(M)	TRUCK DOCK
(N)	COMPACTOR PAD
(O)	DO NOT ENTER SIGN
(P)	CART STORAGE

**ECHO GREENWOOD, LLC**  
**SMITH VALLEY & MORGANTOWN ROAD**  
**GREENWOOD, IN**

530 E. Ohio Street • Suite G - Indianapolis, IN 46204  
 317-655-7777 • 877-748-0749  
 www.celecinc.com

## SITE PLAN

PRELIMINARY  
NOT FOR CONSTRUCTION

C201

DATE: AUGUST 9, 2022 DRAWN BY: JAR  
 DWG SCALE: 1" = 30' CHECKED BY: DRAFT  
 PROJECT NO: 322-005 APPROVED BY: DRAFT

**Indiana 811**  
 Know what's below. Call before you dig.

**REGISTRATION NO. 11800753**  
 STATE OF INDIANA PROFESSIONAL ENGINEERS  
 APPROVED BY: M. P. JUSTICE 08/09/2022

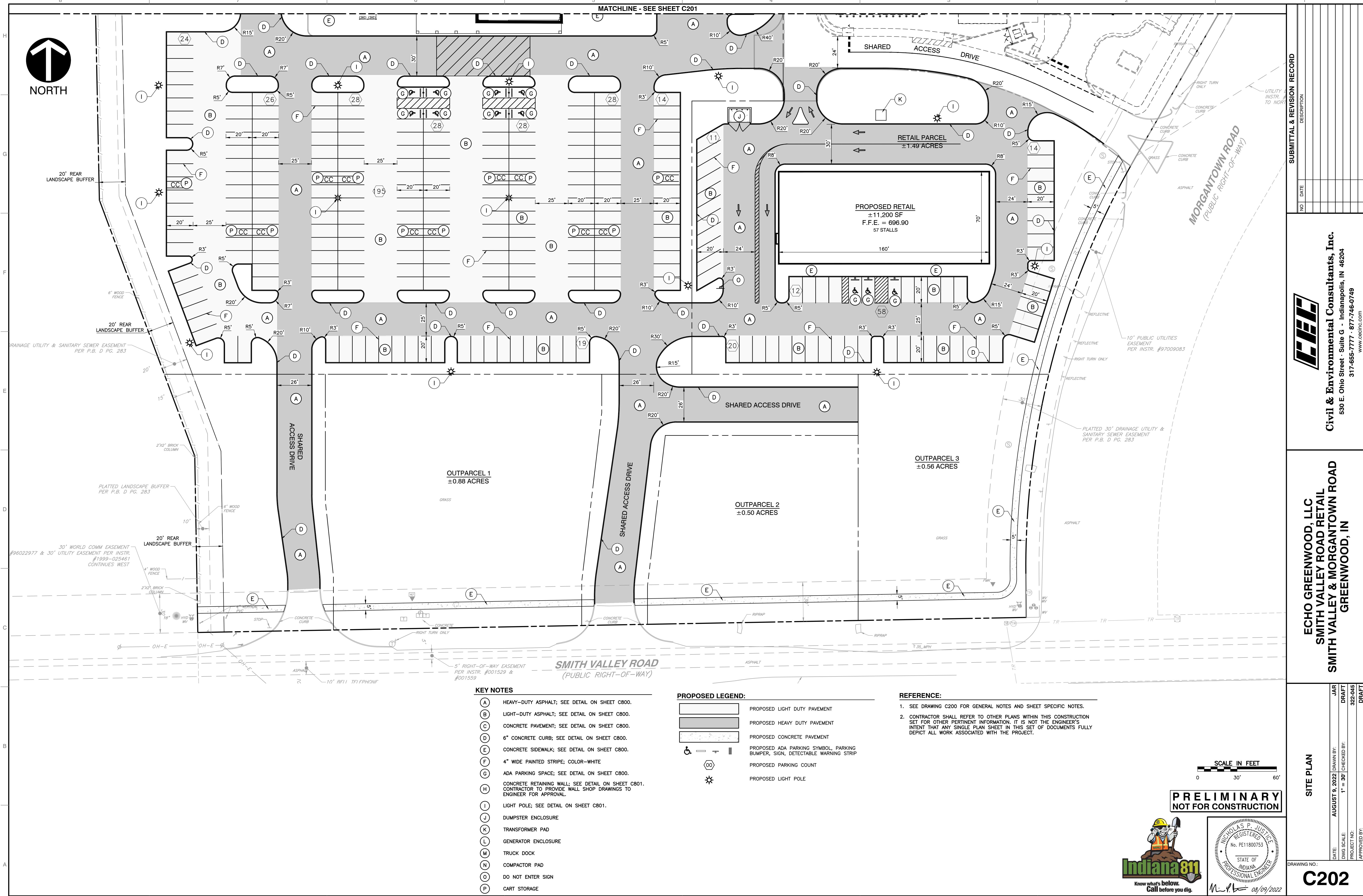


Civil &amp; Environmental Consultants, Inc.

www.celecinc.com

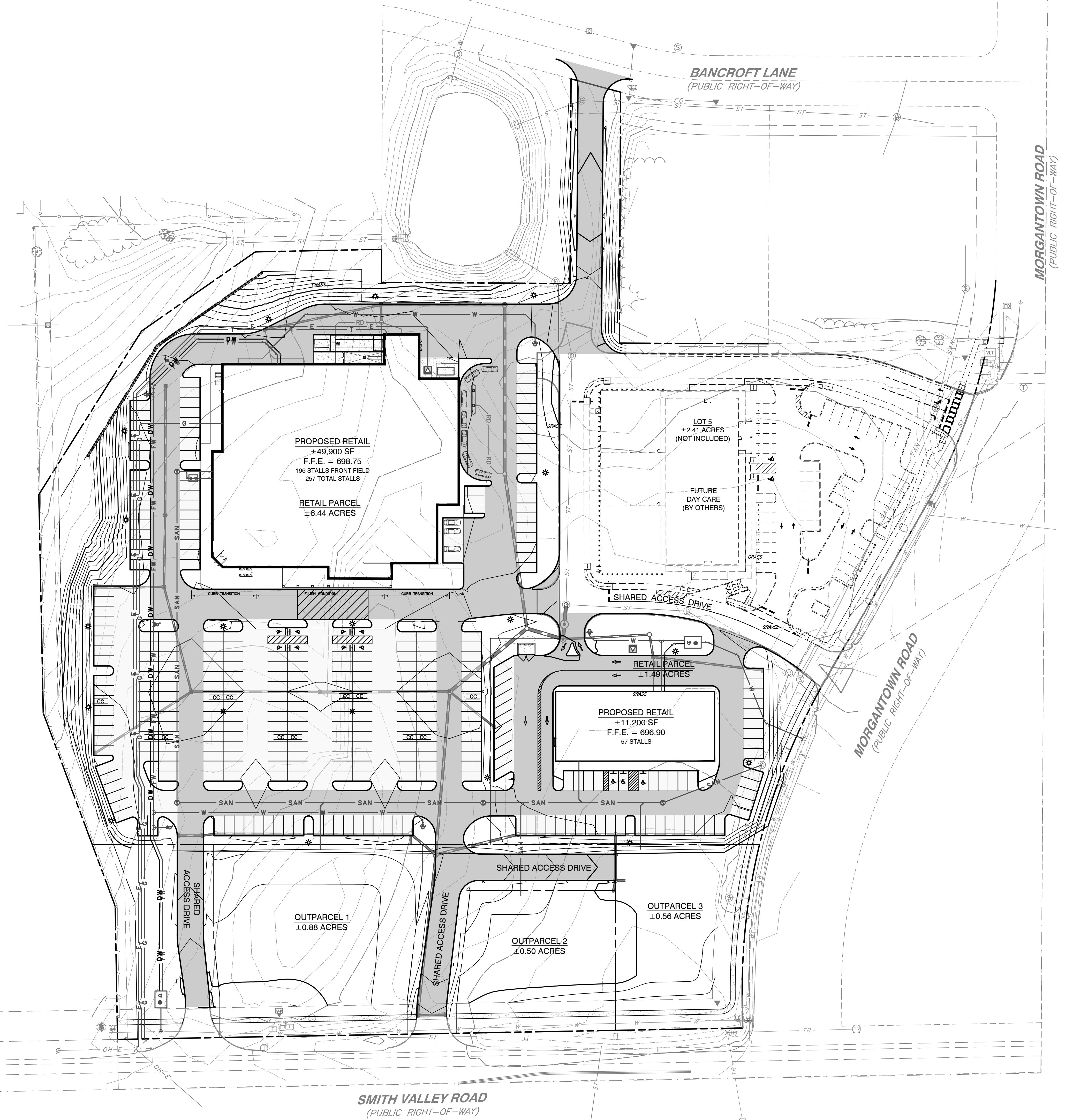


NORTH





NORTH



**SUBMITTAL & REVISION RECORD**

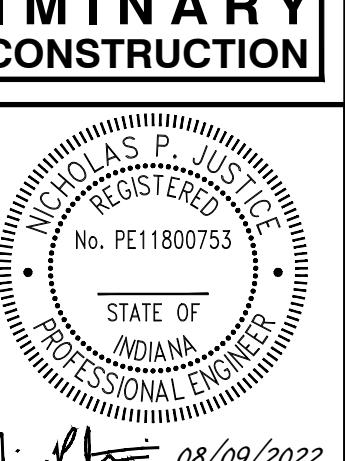
NO.	DATE	DESCRIPTION

**ECHO GREENWOOD, LLC**  
**SMITH VALLEY & MORGANTOWN ROAD**  
**GREENWOOD, IN**

**Civil & Environmental Consultants, Inc.**  
530 E. Ohio Street • Suite G - Indianapolis, IN 46204  
317-655-7777 • 877-748-7439  
www.cecinc.com

SCALE IN FEET

0 50' 100'



DRAWING NO.: C300

DATE: AUGUST 9, 2022 DRAWN BY: JAR DRAFT

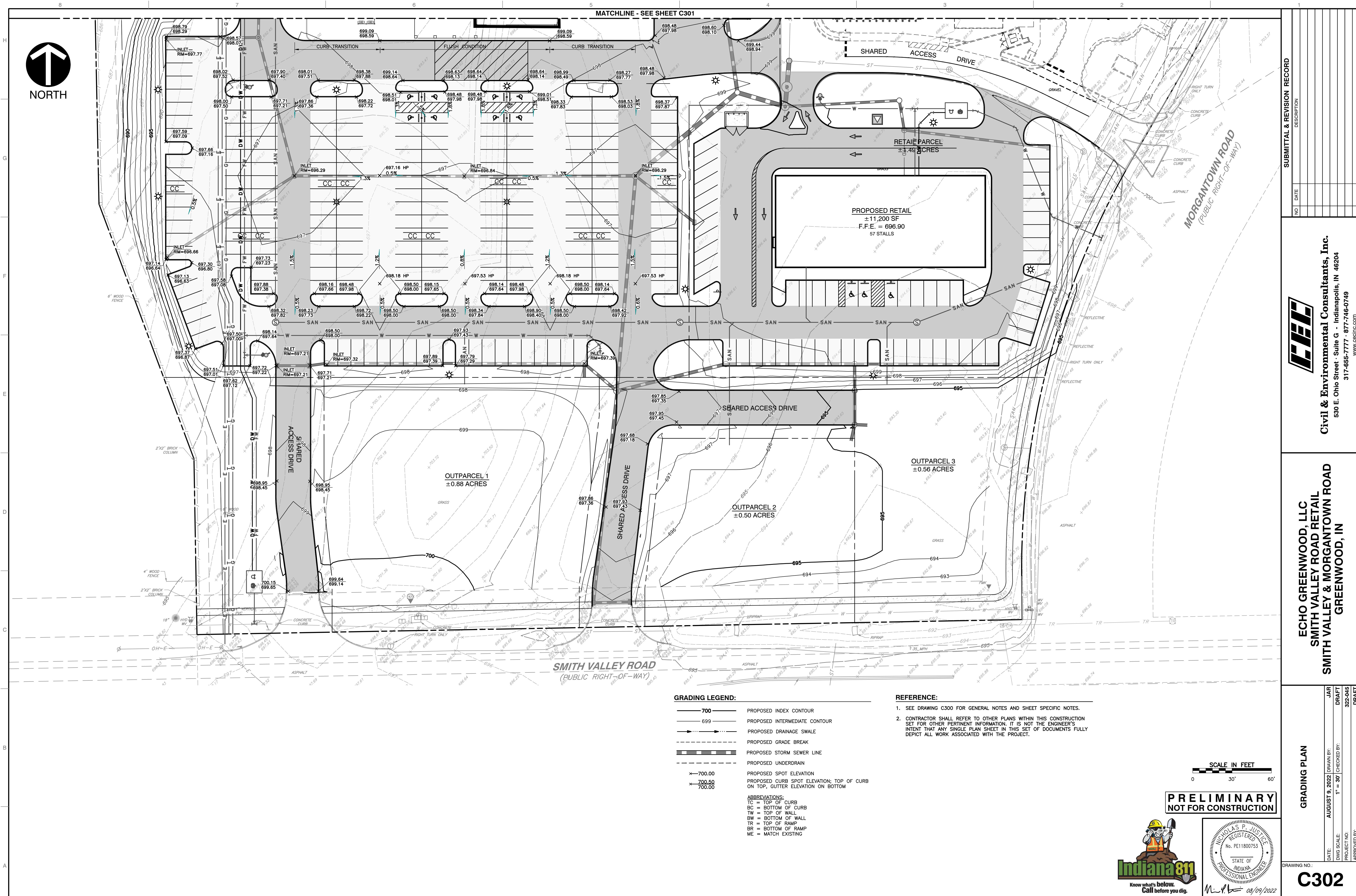
DWG SCALE: 1" = 50' CHECKED BY: 322-005 DRAFT

PROJECT NO.: M-1180753 APPROVED BY: M. P. Justice 08/09/2022



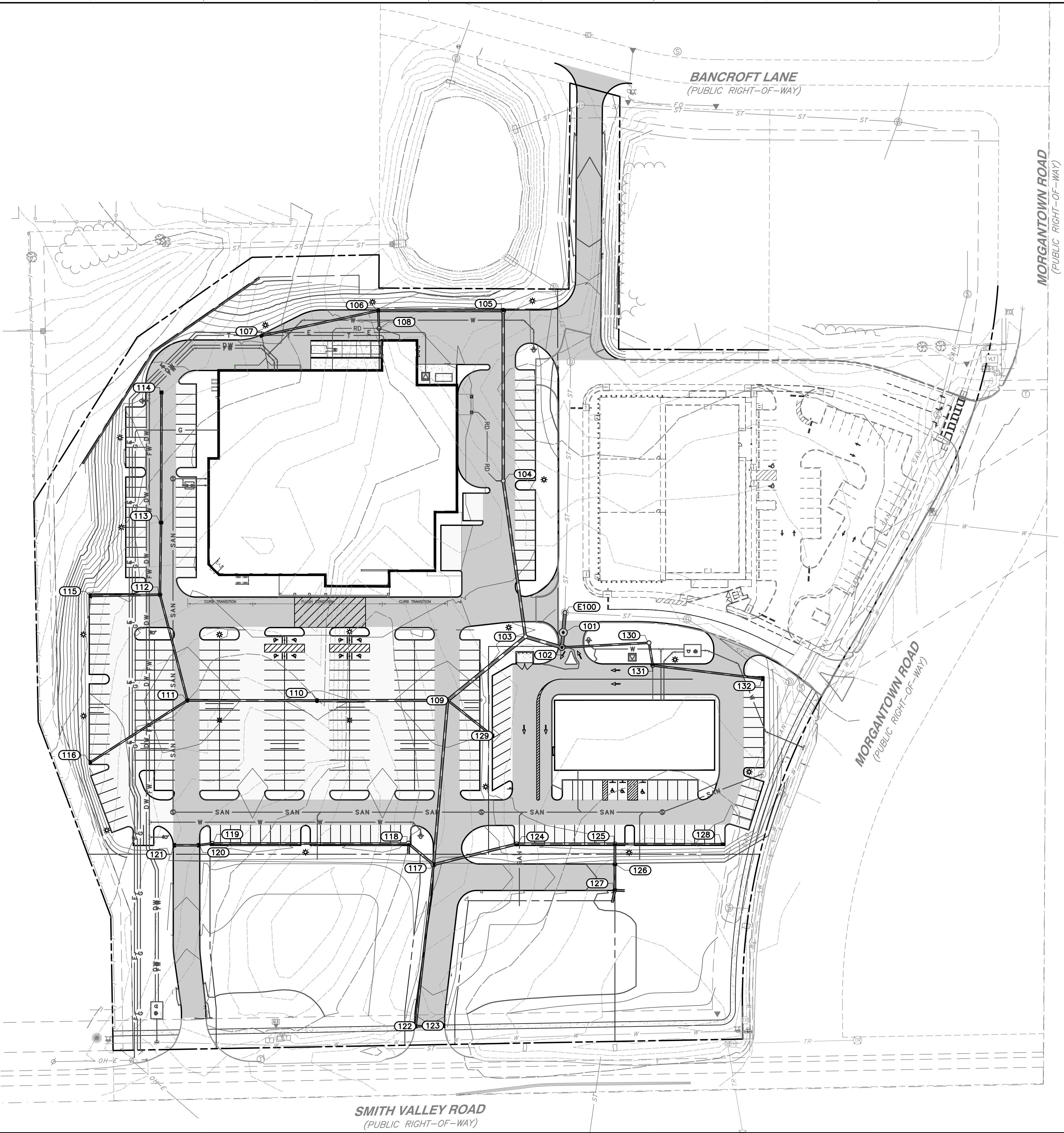


NORTH





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**GENERAL DRAINAGE NOTES:**

1. DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF PIPING TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM CONSTRUCTION.
3. ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
4. ANY WORK PERFORMED IN THE LOCAL OR STATE RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS AND WORK PERMIT, CHECK FOR NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.
5. STORM PIPE MATERIAL OPTIONS ARE AS FOLLOWS: RCP OR HDPE, AS NOTED ON PLANS.

**UTILITY NOTE:**

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE EXISTING UTILITIES COMprise ALL UTILITIES WHICH MAY BE THERE, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR 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 WAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA B1 ONE-CALL (SUBURBAN UTILITY LOCATED SERVICE) TICKET NUMBERS 2204292249, 2204292239, AND 2204292346 WERE ISSUED FOR THIS SITE.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) EXISTING UTILITIES INCLUDING WATER, GAS, MATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

**PROPOSED LEGEND:**

	PROPOSED DITCH
	PROPOSED STORM SEWER LINE
	PROPOSED ROOF DRAINS
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED UNDERDRAIN
	MATCH EXISTING
	TOP OF RIM
	CLEANOUT
	PROPOSED STORM CURB INLET, MANHOLE, CATCH BASIN

**ECHO GREENWOOD, LLC**  
**SMITH VALLEY & MORGANTOWN ROAD**  
**GREENWOOD, IN**



Civil & Environmental Consultants, Inc.  
530 E. Ohio Street • Suite G - Indianapolis, IN 46204  
317-655-7777 • 877-748-0749  
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OVERALL DRAINAGE PLAN

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## NORTH

## GENERAL UTILITY NOTES:

THE UTILITIES INDICATED ON THESE PLANS AND ON THE SURVEY MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THE SITE. THE LOCATION AND SIZE OF THESE UTILITIES MAY BE APPROXIMATE. THE ENGINEER SHALL NOT BE HELD LIABLE FOR ANY INACCURATE UTILITY INFORMATION INDICATED, IMPLIED, OR NOT INDICATED ON THESE PLANS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING, WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR, AT HIS EXPENSE WITH THE PERMISSION OF THE OWNER.

BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR.

WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING THE LOCATION AND ELEVATION OF THE EXISTING PIPING SHALL BE FIELD VERIFIED AND NOTIFICATION GIVEN TO THE OWNER IF THE EXISTING PIPING IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS.

FOR CLARITY OF THESE DRAWINGS, PIPES MAY NOT BE DRAWN TO SCALE OR EXACTLY LOCATED.

ALL NEW WATER LINES SHALL HAVE A MINIMUM OF 54 INCHES OF COVER. MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN NEW WATER AND SANITARY SEWER LINES. IF 18 INCHES OF CLEARANCE IS NOT PROVIDED THEN THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS WITHIN TEN FEET OF THE WATER LINE.

NEW 6" AND 8" SANITARY LATERALS SHALL BE SDR-35, SCHEDULE 80 OR SCHEDULE 40 PVC PIPE CONFORMING TO ASTM D2241, AND SHALL MEET THE DEFLECTION STANDARDS OF ASTM D-3303.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL FEDERAL, STATE, COUNTY, CITY OR LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THE CONTRACTOR OR CONTRACTORS ARE RESPONSIBLE TO PAY FOR ALL REQUIRED PERMITS BY ANY OR ALL AGENCIES MENTIONED ABOVE UNLESS OTHERWISE NOTED IN THE CONTRACT OR SPECIFICATIONS. ALL ASSOCIATED BONDING REQUIREMENTS AND COSTS ARE INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND ELEVATIONS DURING THE ENTIRE CONSTRUCTION SCHEDULE. IF ANY DISCREPANCIES ARE FOUND IN THESE ENGINEERING PLANS FROM ACTUAL FIELD DIMENSIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.

ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.

CONTRACTOR IS RESPONSIBLE FOR ELECTRIC, TELEPHONE, AND CABLE CONDUITS AND TRENCHING. COORDINATE WITH THE LOCAL UTILITY PROVIDERS AND MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR SIZES AND QUANTITIES.

WATER AND FIRE SERVICE SIZES AND CONNECTION LOCATIONS SHALL BE COORDINATED WITH THE MECHANICAL, ELECTRICAL AND PLUMBING PLANS.

## **UTILITY NOTE:**

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRIZE ALL SUCH UTILITIES IN THE AREA, WHETHER IN-SERVICE OR ABANDONED. THE SURVEYOR 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. INDIANA 1 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBERS 2204292249, 204292299, AND 2204292346 WERE ISSUED FOR THIS SITE.

RIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE 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.

## PROPOSED LEGEND:

	PROPOSED STORM SEWER LINE
<b>SAN</b>	PROPOSED SANITARY LINE
<b>E</b>	PROPOSED ELECTRIC LINE
<b>T</b>	PROPOSED TELEPHONE LINE
<b>G</b>	PROPOSED GAS LINE
<b>W</b>	PROPOSED WATER LINE
	PROPOSED CONDUIT
	PROPOSED LIGHT POLE
   	PROPOSED HYDRANT, POST INDICATOR VALVE WATER VALVE, FIRE DEPT. CONNECTION
 	PROPOSED SANITARY MANHOLE, CLEAN OUT
	PROPOSED ELECTRIC TRANSFORMER

SCALE IN FEET

50' 100'

LIMINARY  
FOR CONSTRUCTION



## PRELIMINARY PLAN FOR CONSTRUCTION

10 of 10

DRAWIN

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10 of 10

**ECHO GREENWOOD, LLC  
SMITH VALLEY ROAD RETAIL  
SMITH VALLEY & MORGANTOWN ROAD  
GREENWOOD, IN**

## OVERALL UTILITY PLAN

# OVERALL UTILITY PLAN

---

NO.: C50

DATE:	<b>AUGUST 9, 2022</b>	DRAWN BY:
DWG SCALE:	<b>1" = 50'</b>	CHECKED BY:





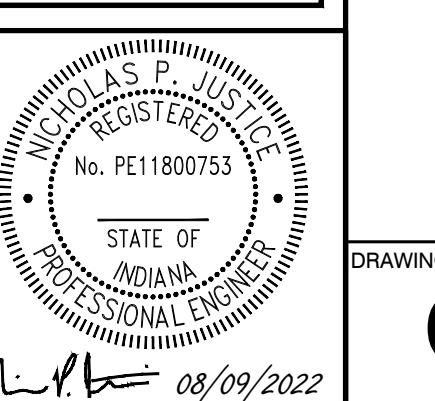
# NORTH

**MATCHLINE - SEE SHEET C**

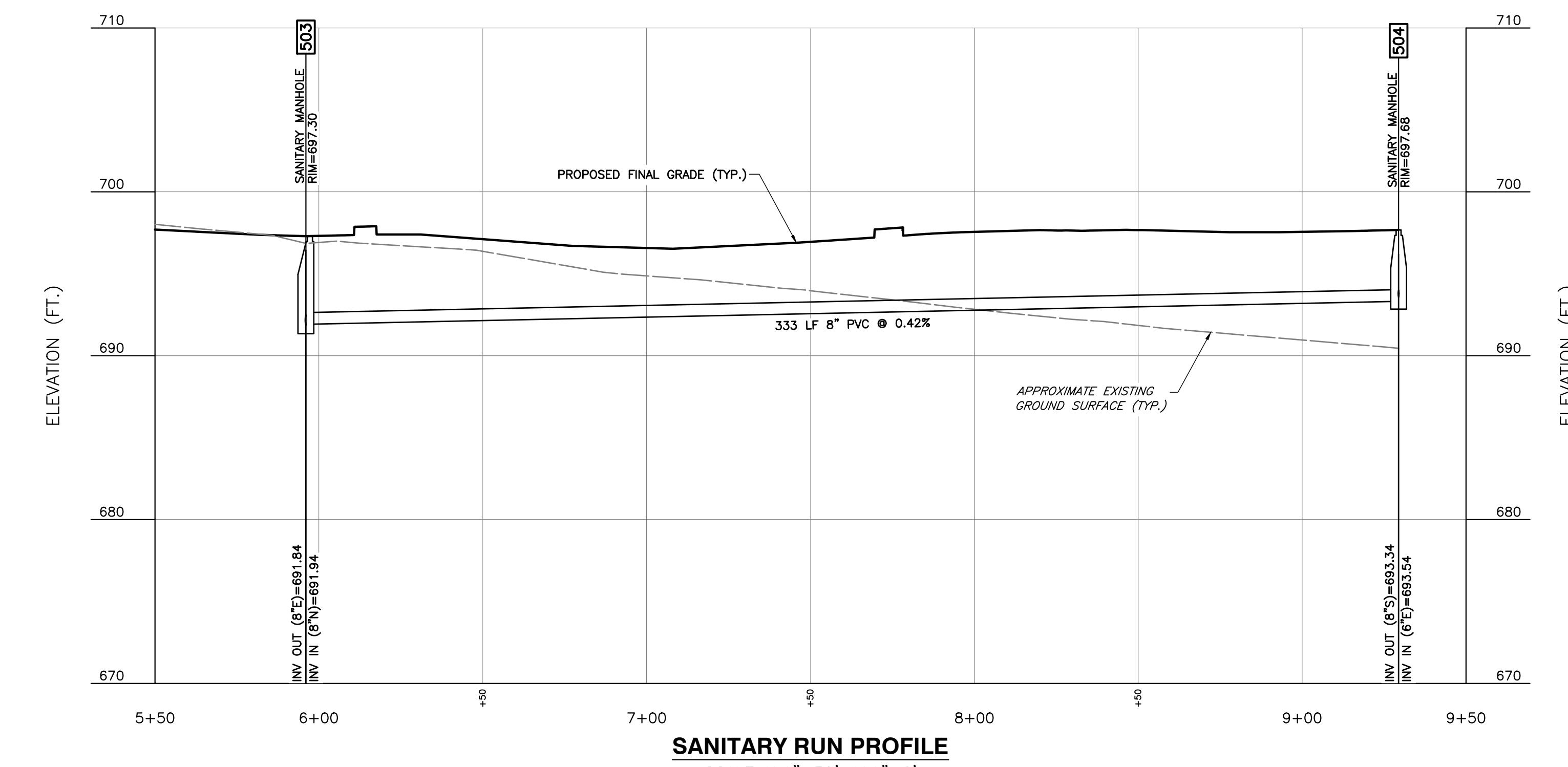
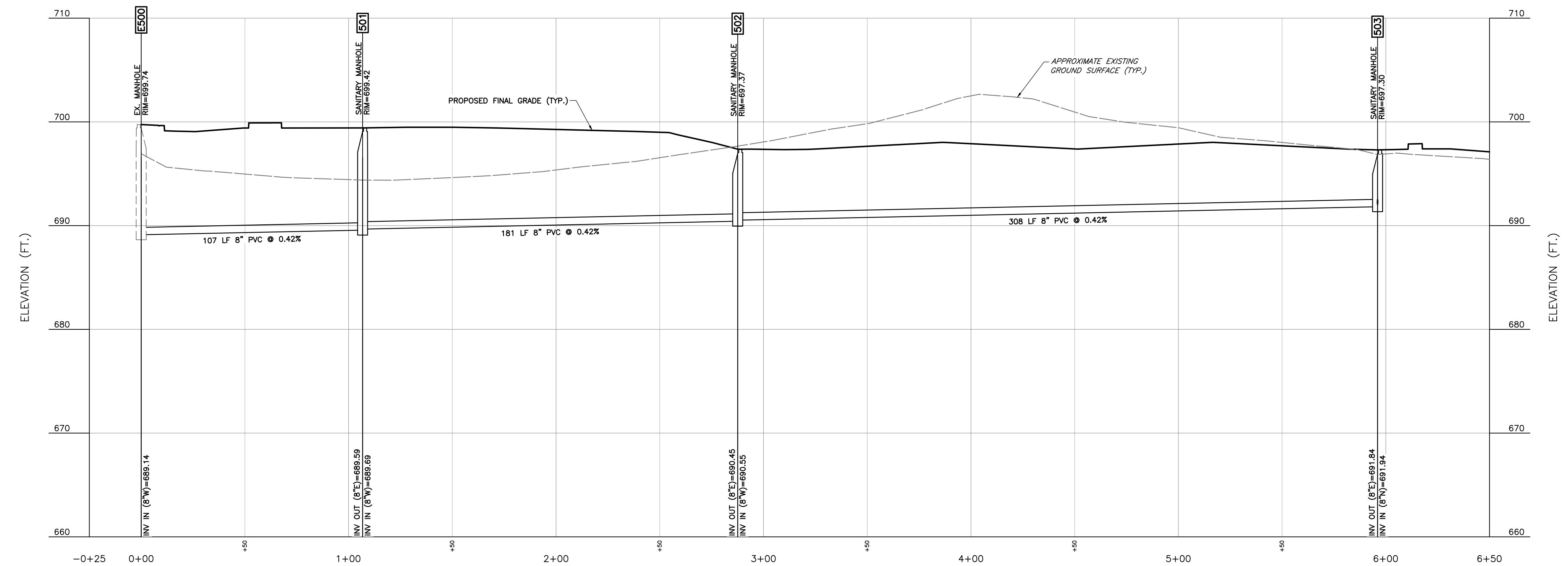
**ECHO GREENWOOD, LLC  
SMITH VALLEY ROAD RETAIL  
SMITH VALLEY & MORGANTOWN ROAD  
GREENWOOD, IN**

## UTILITY PLAN

# PRELIMINARY NOT FOR CONSTRUCTION

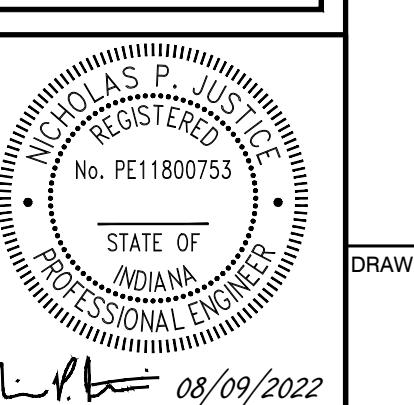


**C502**



**REFERENCE:**

- SEE DRAWING C500 FOR GENERAL NOTES AND SHEET SPECIFIC NOTES.
- CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.



**PRELIMINARY  
NOT FOR CONSTRUCTION**

**SAINTARY PROFILES**

**ECHO GREENWOOD, LLC  
SMITH VALLEY & MORGANTOWN ROAD  
GREENWOOD, IN**



**Civil & Environmental Consultants, Inc.**  
530 E. Ohio Street • Suite G - Indianapolis, IN 46204  
317-655-7777 • 877-748-0749  
www.ceninc.com

**SUBMITTAL & REVISION RECORD**

NO.	DATE	DESCRIPTION

1	2	3	4	5	6	7	8

SCALE IN FEET (HORIZONTAL)  
0 30 60  
SCALE IN FEET (VERTICAL)  
0 6 12

0 30 60  
0 6 12

DATE: AUGUST 9, 2022 DRAWN BY: JAR  
DWG SCALE: 1" = 30' CHECKED BY: DRAFT  
PROJECT NO.: 322-045 APPROVED BY: DRAFT

**C503**



# NORTH

## **GENERAL LANDSCAPE NOTES:**

ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY, OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND ELEVATIONS DURING THE ENTIRE CONSTRUCTION SCHEDULE. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD DIMENSIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.

CONTRACTOR SHALL MAINTAIN ONE SET OF AS-BUILT/RECORD DRAWINGS ON THE JOB SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.

NO CHANGES TO THE SITE LANDSCAPE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUALITY AND QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING AS SHOWN ON DRAWINGS.

ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT "AMERICAN ASSOCIATION OF NURSERY STOCK. ANSI Z60.1-2004", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN.

NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED.

ALL PLANTS SHALL BE PLANTED SO THAT THE ROOT CROWN IS PLANTED AT GRADE LEVEL.

ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED AT THE TIME OF PLANTING. TWINE OR ROPE SHALL BE REMOVED FROM AROUND CROWN OF TRUNK TO PREVENT GIRDLING OF TREE OR SHRUB.

WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE CONTAINER BALL SHALL BE CUT THROUGH THE SURFACE IN TWO VERTICAL LOCATIONS.

THE DAY PRIOR TO PLANTING, THE LOCATIONS OF ALL TREES AND SHRUBS SHALL BE STAKED FOR APPROVAL BY OWNER(S).

THE LANDSCAPE CONTRACTOR SHALL REFER TO CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

THE LANDSCAPE CONTRACTOR SHALL GUARANTEE NEW PLANT MATERIAL THROUGH ONE (1) CALENDAR YEAR FROM THE TIME OF SUBSTANTIAL COMPLETION OF PROJECT.

IF THERE IS A DISCREPANCY BETWEEN THE PLANS AND THE PLANT SCHEDULE, THE PLANS SHALL TAKE PRECEDENCE.

CONTRACTOR SHALL REPAIR ANY DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.

STAKES AND OR GUY WIRES SHALL BE REMOVED AFTER ONE (1) YEAR OF INSTALLATION.

ALL EXISTING LANDSCAPING SHALL BE MAINTAINED DURING CONSTRUCTION. ANY MATERIAL DEEMED DEAD OR UNSATISFACTORY BY LANDSCAPE ARCHITECT, WILL BE REPLACED EQUIVALENT IN SIZE AND SHAPE AT NO COST TO OWNER.

IF PLANT SPECIES SPECIFIED ARE FOUND TO BE UNAVAILABLE OR NOT IN SUFFICIENT QUANTITIES AT TIME OF PLANTING, THE CONTRACTOR MAY SUBSTITUTE SPECIES UPON WRITTEN APPROVAL BY LANDSCAPE ARCHITECT.

BOL	DESCRIPTION	1	PLANT QUANTITY
		AG	PLANT TYPE
		PR	REQ. LOCATION
N	FOUNDATION PLANTINGS		
N	INTERIOR PARCEL PLANTINGS		
R	PERIMETER PARKING LOT REQUIRED PLANTINGS		
T	STREET TREE PLANTINGS		

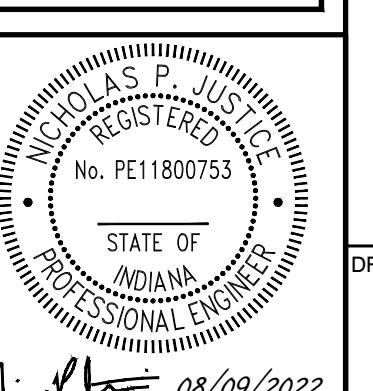
**SMITH VALLEY ROAD RETAIL  
SMITH VALLEY & MORGANTOWN ROAD  
GREENWOOD, IN**

# SMITH VALLEY ROAD RETAIL SMITH VALLEY & MORGANTOWN ROAD GREENWOOD, IN

11 of 11

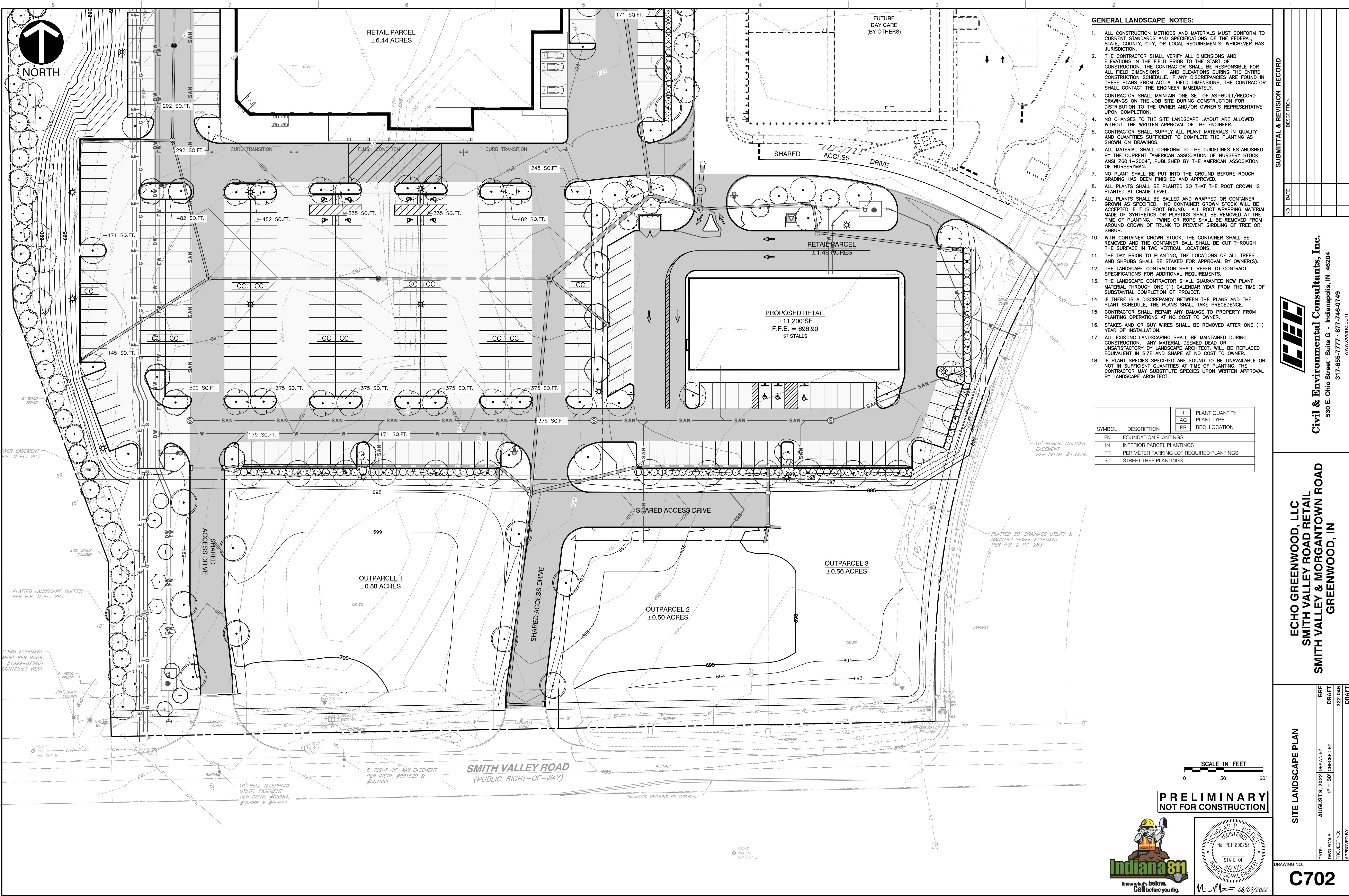
# ELIMINARY FOR CONSTRUCTION

The logo for Diana 811 features a cartoon mouse wearing a yellow hard hat and an orange safety vest with reflective stripes. The mouse is holding a shovel in its right hand and a telephone receiver to its ear with its left hand. It is standing next to a large mound of brown dirt. Below the mouse, the word "diana" is written in a large, green, sans-serif font. To the right of "diana", the number "811" is written in a large, yellow, bold font. A small shovel is positioned at the bottom right of the "811". The entire logo is set against a white background with a black border around the image itself.



O.:  
**C700**  
DATE: **AU**  
DWG SCALE: **1:1**  
PROJECT NO.: **1234567890**



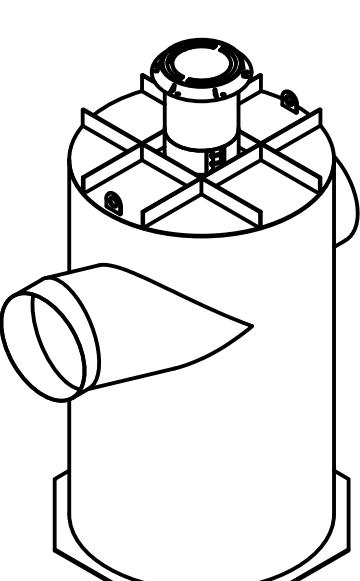




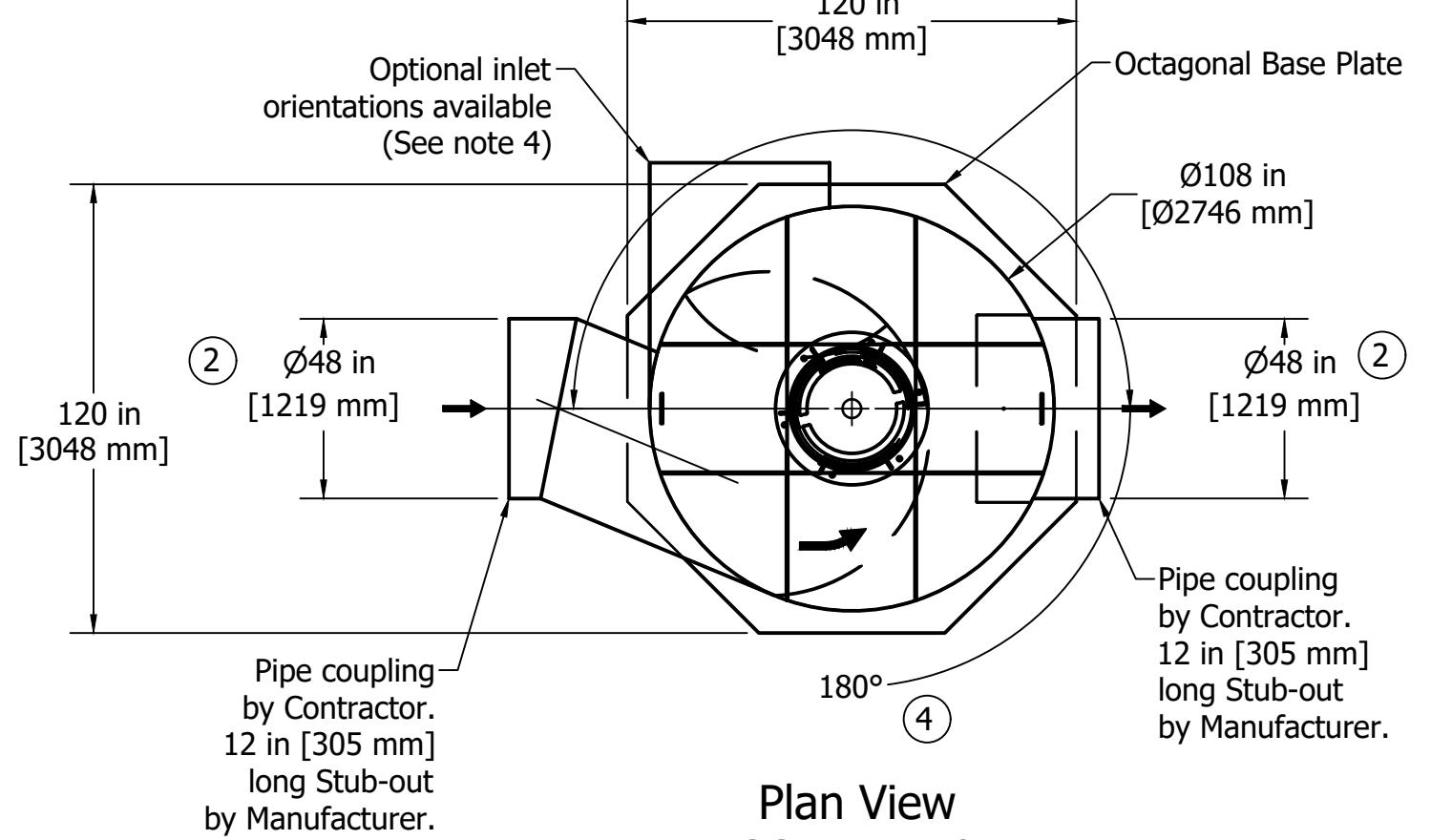




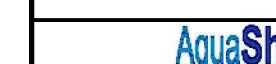
Aqua-Swirl Polymer Coated Steel (PCS)  
Stormwater Treatment System



Projected View  
SCALE 1:80



Plan View  
SCALE 1:50



Aqua-Swirl XCelerator  
XC-9 CCW STD

2733 Kanista Drive, Suite 11, Indianapolis, IN 46243

Phone (888) 344-9044 Fax (423) 626-2112

www.aquashieldinc.com

Structure #:	XC-9 STD	Rvwed	Rvw. Date
Drawn By:	OFlores		
Scale:	As Shown		
Date:	6/26/2019		

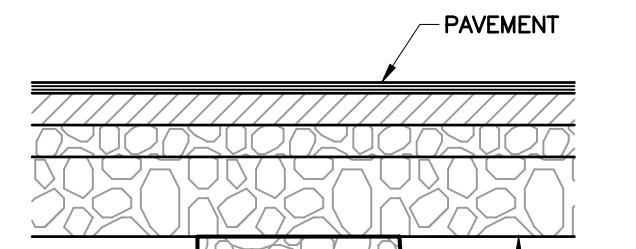
U.S. Patent No. 6524473 and other Patent Pending

INSTALLATION REQUIRED

1. EXTENDING 20' FROM STORM INLETS OR MANHOLE WHERE SHOWN ON THE UTILITY & GRADING PLAN.
2. PIPE MATERIAL PER INDIANA DEPT. OF TRANSPORTATION SPECS. NO. 218.02

#8 WASHED STONE  
4" MIN.  
4" MIN.  
4" DIAMETER PERFORATED HIGH DENSITY POLYETHYLENE PIPE WITH "HIGHWAY SOCK FILTER"

DETAIL 405 - 4" PIPE UNDERDRAIN  
UNDER PAVEMENT  
NOT TO SCALE



Unless other traffic barriers are present, bollards shall be placed around access riser(s) in non-traffic areas to prevent inadvertent loading by maintenance vehicles.

If traffic loading (HS-25) is required or anticipated, a 4-foot [1.22 m] diameter, 14 in [356 mm] thick concrete riser shall be placed over the Stormwater Treatment System Riser to support and level the manhole frame, as shown. The top of riser pipe must be wiped clean of any debris and backfill shall be compacted to a minimum 1/2-inch [13 mm] thickness to allow transfer of wheel loads from manhole cover to concrete slab. The concrete slab shall be a minimum 4 in [102 mm] thick and have a minimum strength of 3,000 psi [20 MPa] and be reinforced with #4 [13 mm] rebar spaced 12 in [305 mm] on centers. The concrete slab shall be 1-inch [25 mm]. Top of manhole cover and concrete slab shall be level with finish grade.

Please see accompanied Aqua-Swirl specification notes. See Site Plan for actual System orientation. Approximate dry (pick) weight: 5900 lbs [2700 kg].

- 1 As an alternative, 42 in [1067 mm] diameter, HS-20/25 rated precast concrete rings may be substituted. 14 in [356 mm] thickness must be maintained.
- 2 XC-9 inlet/outlet pipe size ranges up to 48 in [1219 mm].
- 3 XC-9 chamber height may vary up to 178 in [4521 mm], depending on inlet/outlet pipe size.
- 4 Orientation may vary from a minimum of 90° to a maximum of 180°. Clockwise or counterclockwise orientation as needed.

Manhole Frame & Cover Detail  
For Traffic Loading Areas  
NTS

3,000 psi [20 MPa]

Backfill (90%  
Proctor Density)

Wrap Compressible Expansion Joint to a minimum  
1/2-inch [13 mm] thickness around  
top of riser to allow transfer of  
inadvertent loading from  
manhole cover to concrete slab.

Manhole Frame & Cover Detail  
For Non-Traffic Areas Only

DO NOT allow manhole  
frame to rest upon riser.

Place small amount of  
concrete (3,000 psi [20  
MPa] min) to support  
frame and allow frame  
to rest upon riser.

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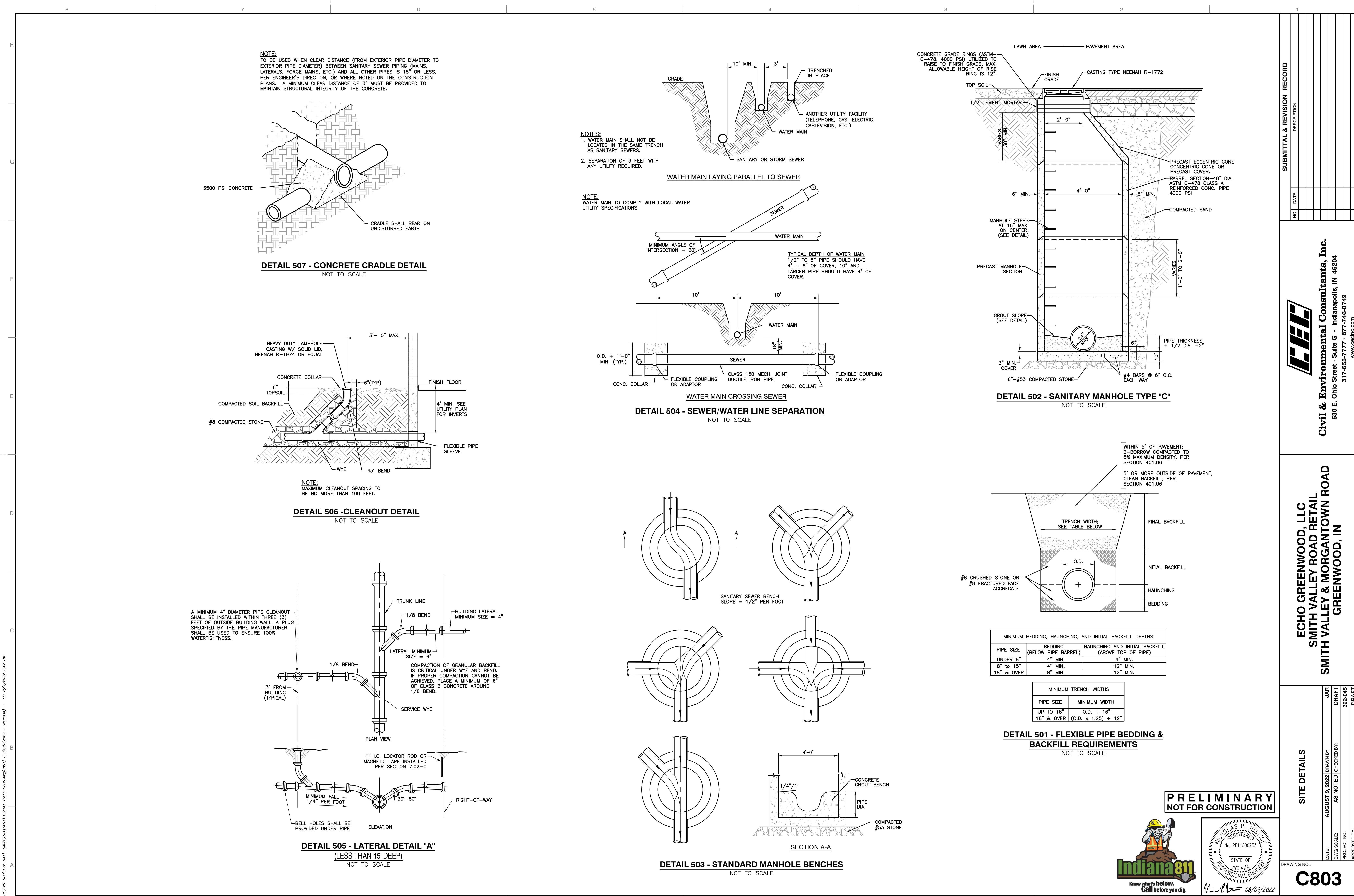
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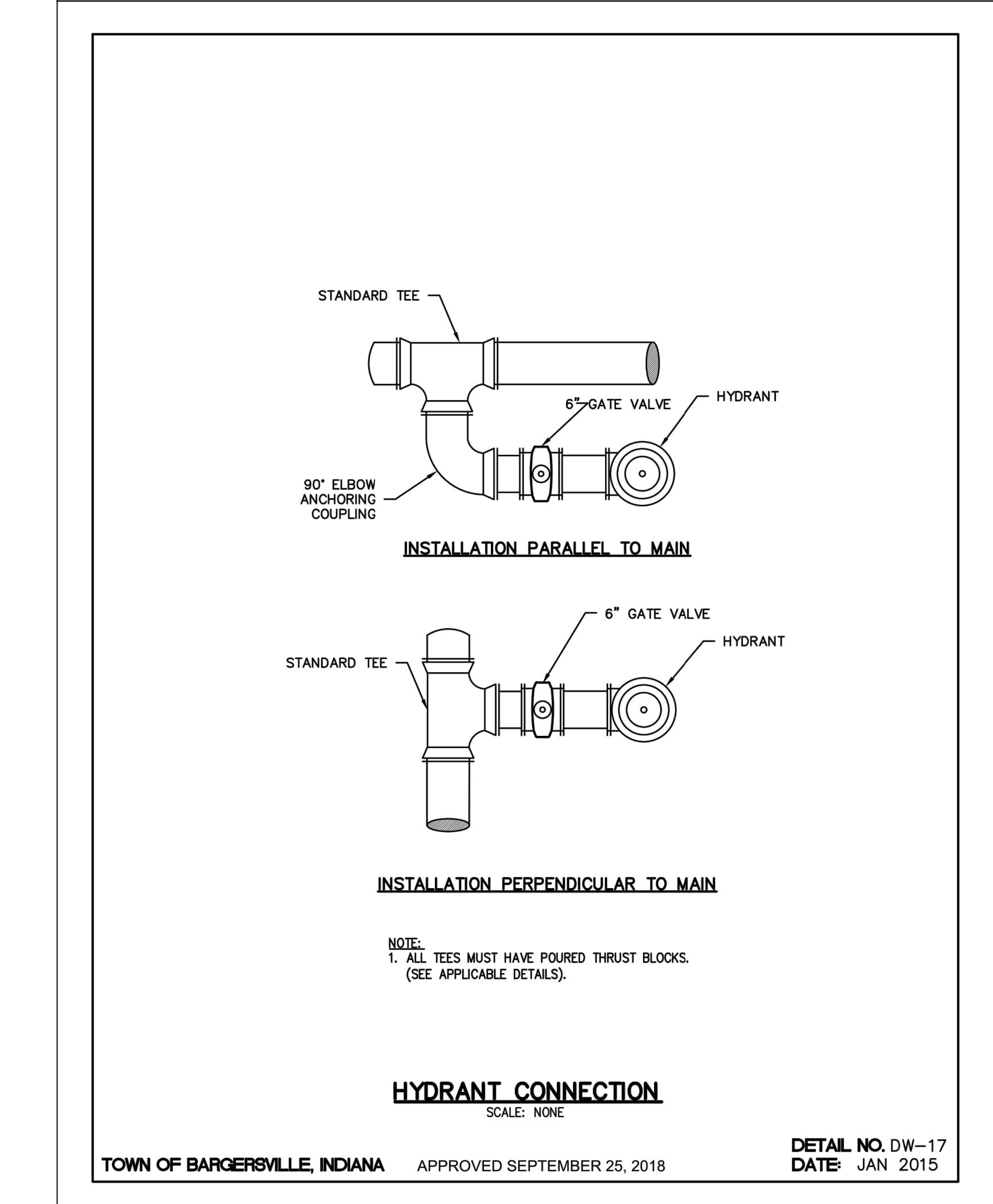
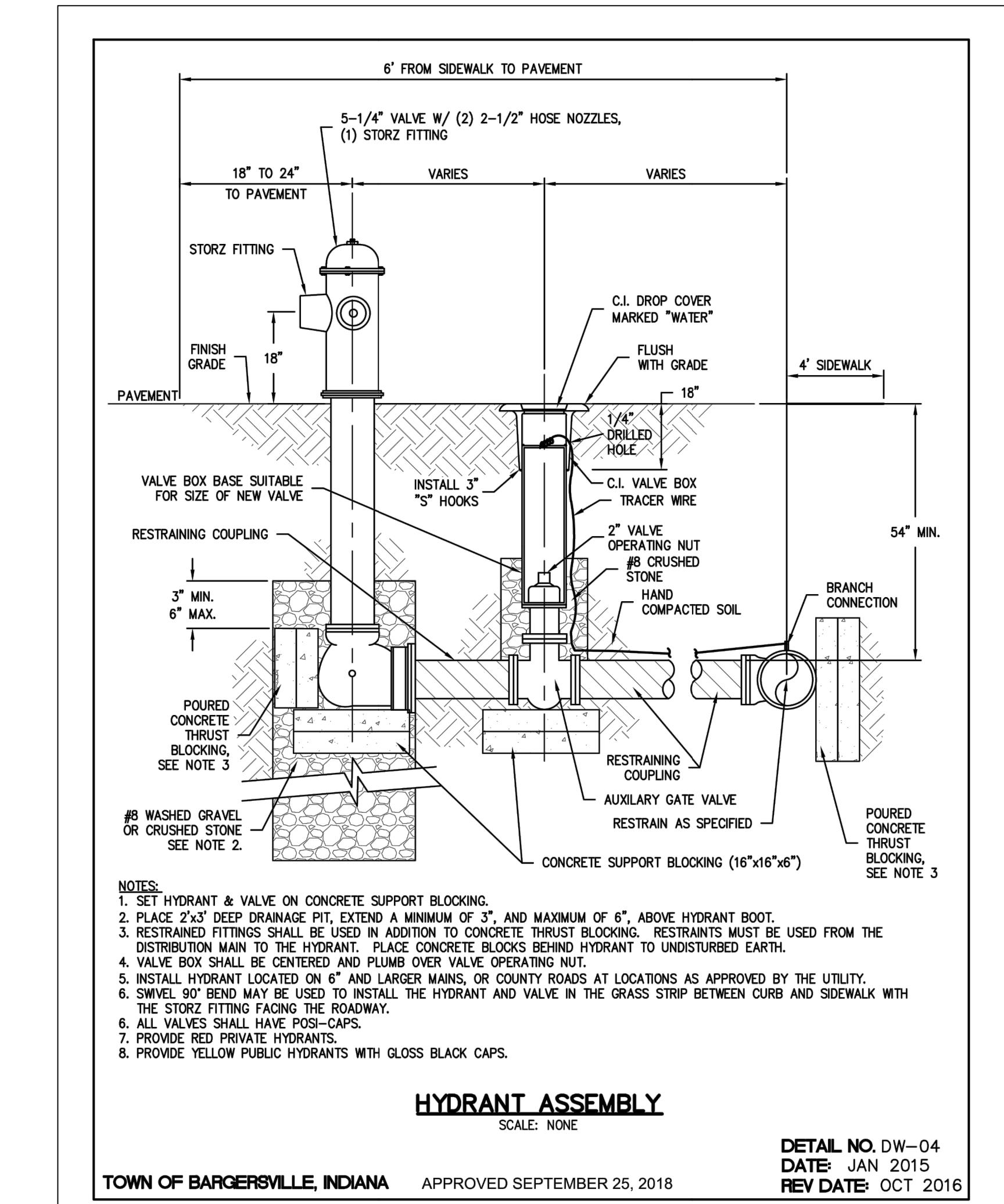
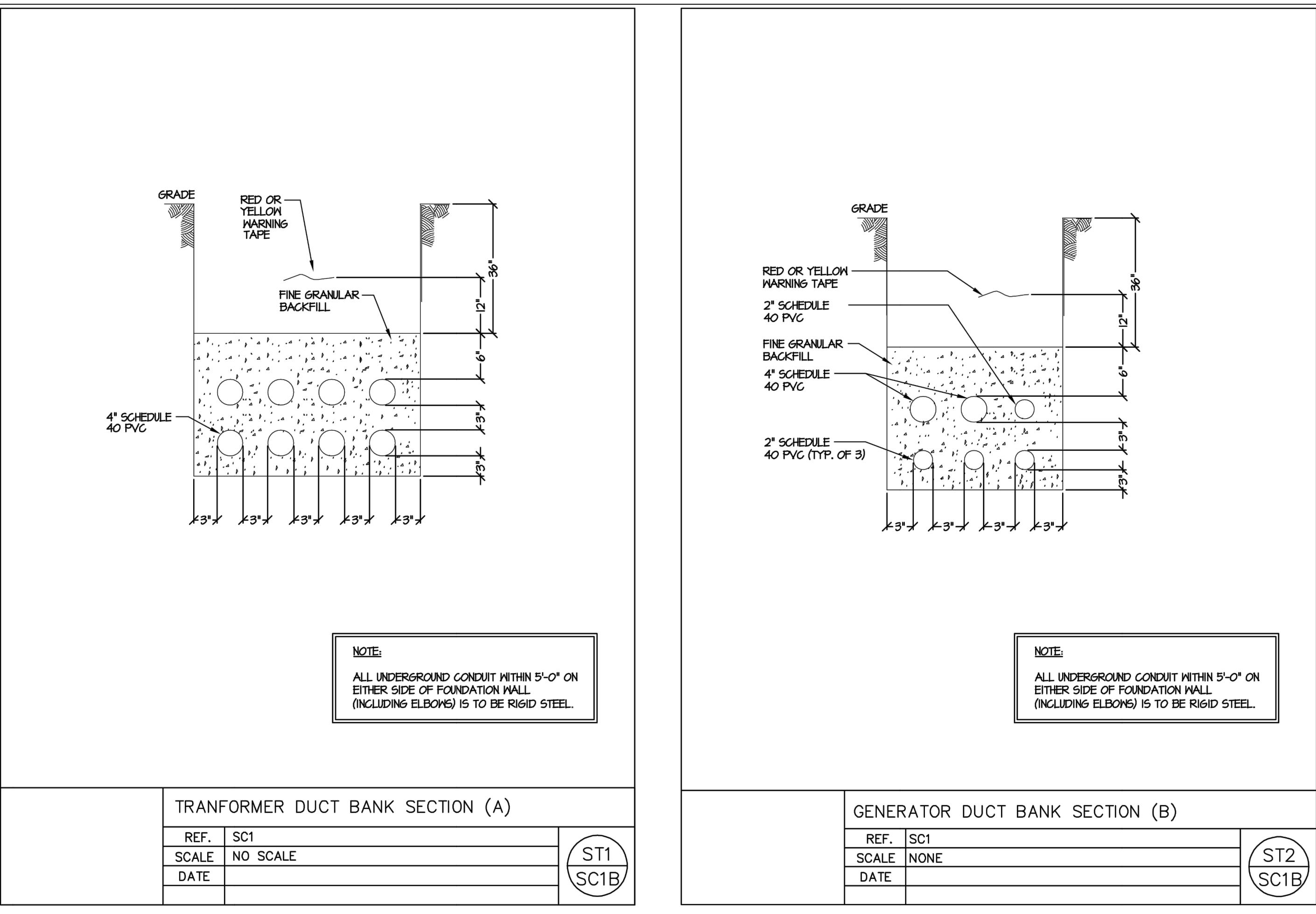
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**ECHO GREENWOOD, LLC  
SMITH VALLEY ROAD RETAIL  
SMITH VALLEY & MORGANTOWN ROAD  
GREENWOOD, IN**

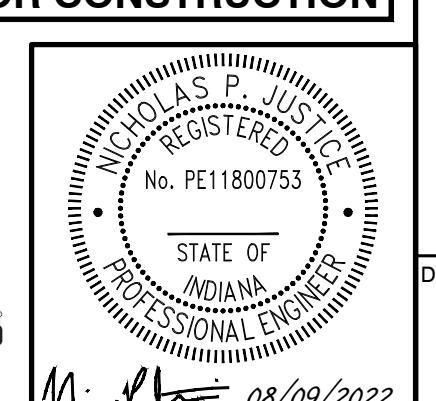
**P R E L I M I N A R Y  
N O T F O R C O N S T R U C T I O N**

**NICHOLAS P. JUSTICE  
REGISTERED  
No. PE11800753  
STATE OF  
INDIANA  
PROFESSIONAL ENGINEER**

**811**

**below.  
before you dig.**

**M. P. J. 08/09/2022**



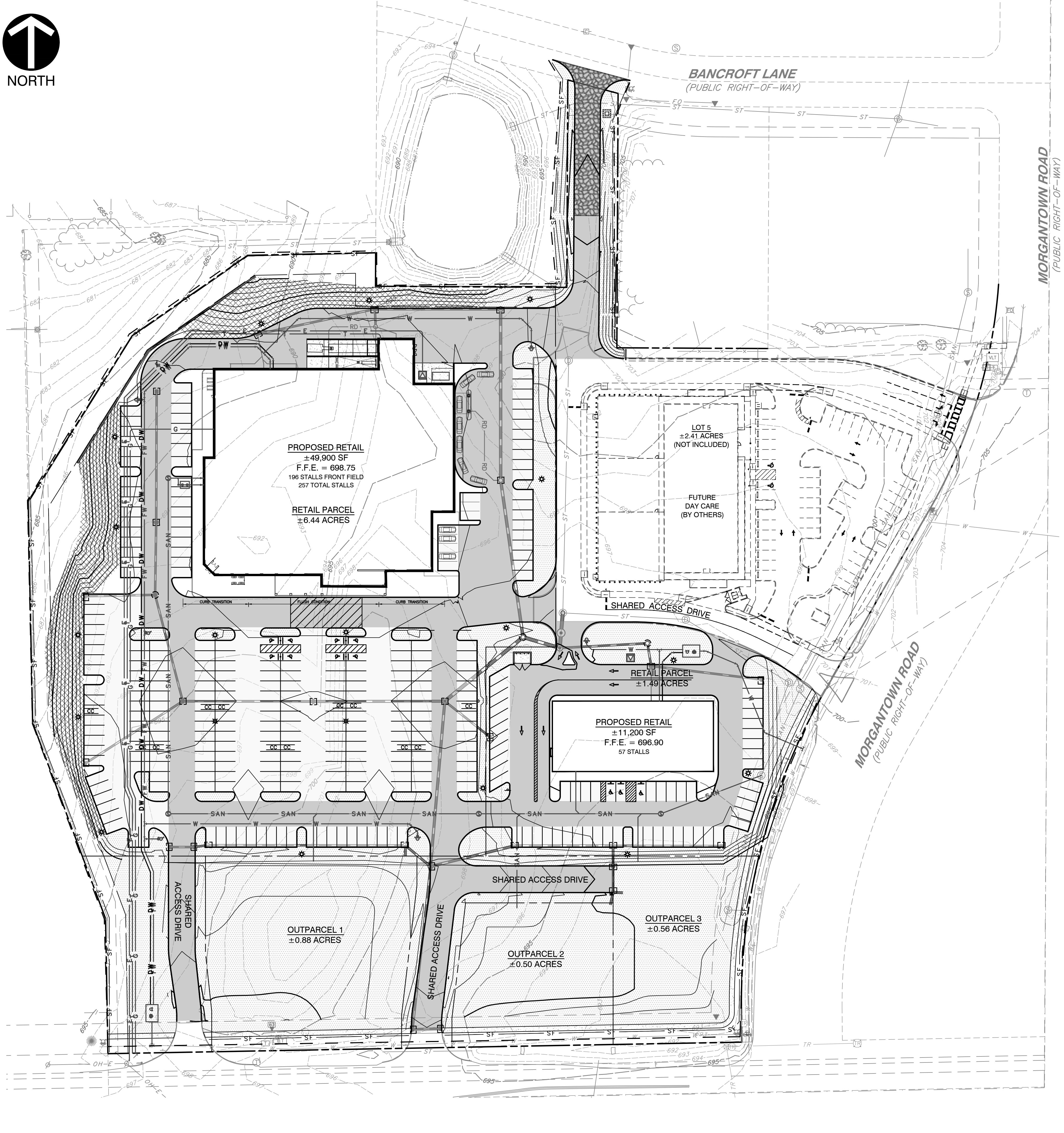
**C805**



NORTH

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A2 11"X17" PLAN AS A SEPARATE DOCUMENT  
A3 PROPOSED CONSTRUCTION PLAN C901  
A4 VICTORY MAP - SHEET C901  
A5 LEGAL DESCRIPTION - NA  
A6 LOTS AND IMPROVEMENTS - SHEET C200  
A7 HU's - C901  
A8 STATE AND FEDERAL WO PERMITS - NA  
A9 STORM WATER DISCHARGE POINTS - C300  
A10 WATERSHEDS, DRAINAGE COMPONENTS - NA  
A11 RECEIVING WATER DESCRIPTION - C901  
A12 POTENTIAL GROUND WATER DISCHARGE - C901  
A13 100 FLOOD DELINEATION - C901  
A14 PROPOSED STORM WATER DISCHARGE RATES - C901  
A15 DISTURBED AREA DELINEATION - C200, C900, C900A  
A16 ADJACENT LAND USE - C901  
A17 SOIL MAP AND DESCRIPTION - C900A  
A18 PROPOSED STORM WATER SYSTEMS - C400  
A19 OFF-SITE CONSTRUCTION ACTIVITIES - NA  
A20 SOIL TESTS AND REPORTS - NA  
A21 EXISTING SITE TOPOGRAPHY - C300

## STORM WATER POLLUTION PREVENTION - DURING CONSTRUCTION

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B2 SEQUENCE OF STORM WATER QUALITY MEASURES - C901  
B3 CONCENTRATED EROSION - C900  
B4 SEDIMENT CONTROL MEASURES FOR SHEET FLOW - C900  
B5 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW - C900  
B6 STORM SEWER INLET PROTECTION - C900  
B7 RUNOFF CONTROL - C900, C900A  
B8 STORM WATER OUTLET PROTECTION - C900  
B9 GRADE STABILIZATION STRUCTURES - C900  
B10 STORM WATER QUALITY DETAILS - C9002  
B11 TEMPORARY EROSION CONTROL - C900  
B12 PERMANENT STABILIZATION - C900, C900A  
B13 MATERIAL HANDLING AND SPILL PREVENTION - C901  
B14 MONITORING AND MAINTENANCE GUIDELINES - C901  
B15 INDIVIDUAL LOT EESC - NA

## STORM WATER POLLUTION PREVENTION - POST CONSTRUCTION

C1 POTENTIAL POLLUTANTS AND SOURCES - C901  
C2 POST CONSTRUCTION STORM WATER QUALITY MEASURE MAP - C900  
C3 POST CONSTRUCTION STORM WATER QUALITY MEASURES - C901  
C4 POST CONSTRUCTION STORM WATER QUALITY MEASURE DETAILS - C901  
C5 POST CONSTRUCTION STORM WATER QUALITY MEASURE MAINTENANCE - C901

## BENCHMARKS:

UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.

TBM#1: CUT SQUARE ON THE WEST SIDE OF A CONCRETE LID OF A FORCE MAIN MANHOLE ON THE EAST SIDE OF MORGANTOWN ROAD ACROSS FROM THE NORTHERN MOST CURB CUT ENTRANCE TO THE SITE. ELEV. = 706.84

TBM#2: CUT "X" ON THE ARROW BOLT OF A HYDRANT LOCATED IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF MORGANTOWN AND SMITH VALLEY ROAD. ELEV. = 695.82

TEM#3: CUT "X" ON THE ARROW BOLT OF A HYDRANT LOCATED IN THE SOUTHWEST CORNER OF THE SITE. ELEV. = 699.89

## UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND READING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMprise ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THE ACCURACY OF THE UNDERGROUND UTILITIES SHOWN. 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. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBERS 2204292249, 2204292259, AND 2204292346 WERE ISSUED FOR THIS SITE.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE 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.

8. STATE AND COUNTY OFFICIAL CAN REQUIRE ADDITIONAL EROSION CONTROL MEASURES IN THE FIELD AS SITE CONDITIONS WARRANT.

9. STATE AND COUNTY OFFICIALS MAY ENTER A CONSTRUCTION SITE FOR EXAMINATION OF THE SWPPP LOG TO ENSURE EROSION CONTROL MEASURES ARE BEING ADEQUATELY MAINTAINED AFTER RAINFALL EVENTS.

10. CONCRETE WASTEWATER SHALL BE DISCHARGED INTO AND APPROVED ON-SITE CONTAINMENT UNIT. SUCH WASTEWATER SHALL BE RETAINED ON-SITE UNTIL WASTEWATER HAS SOLIDIFIED (24-48 HOURS).

11. POST-CONSTRUCTION PAVEMENT INLET PROTECTION SHALL BE INSTALLED PRIOR TO THE COMPLETION AND FINAL INSPECTION/APPROVAL OF ANY PROJECT.

12. IF CONNECTING TO AN EXISTING STORM SEWER STRUCTURE, THE STRUCTURE MUST BE CORE-DRILLED.

## PROPOSED LEGEND:

PROPOSED CONSTRUCTION ENTRANCE  
Erosion control blanket over seed over 4" layer of compacted topsoil  
PERMANENT/TEMPORARY SEEDING AREAS OVER 4" LAYER OF COMPACTED TOPSOIL  
PROPOSED LIMITS OF DISTURBANCE  
PROPOSED SILT FENCE  
PROPOSED INLET PROTECTION  
PROPOSED CONCRETE WASHOUT



SOIL LEGEND  
YlhC2 - Fox-Urban land complex  
Ylb2 - Fox loam-Urban land complex  
Yhc2 - Ockley loam-Urban land complex

SOIL MAPS FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE

YlhC2 - Fox-Urban land complex, 6-12 percent slopes, is a well drained and medium runoff soil. The surface layer is loam. Permeability is moderately high to high (0.60 to 2.00 in./hr) in the most restrictive layer greater than 80 inches below the surface. Available water supply is 0 to 60 inches, Low (about 5.3 inches).

Ylb2 - Fox loam-Urban land complex, 2 to 6 percent slopes, is a well drained and loamy soil. The surface layer is loam. Permeability is moderately high to high (0.60 to 2.00 in./hr) in the most restrictive layer greater than 80 inches below the surface. Available water supply is 0 to 60 inches, Moderate (about 8.2 inches).

Yhc2 - Ockley loam-Urban land complex, 2 to 6 percent slopes, is a well drained and loam runoff soil. The surface layer is loam. Permeability is moderately high to high (0.60 to 2.00 in./hr) in the most restrictive layer greater than 80 inches below the surface. Available water supply is 0 to 60 inches, Moderate (about 8.2 inches).

All areas covered by Trees/Timber (Woody vegetation).

SCALE IN FEET

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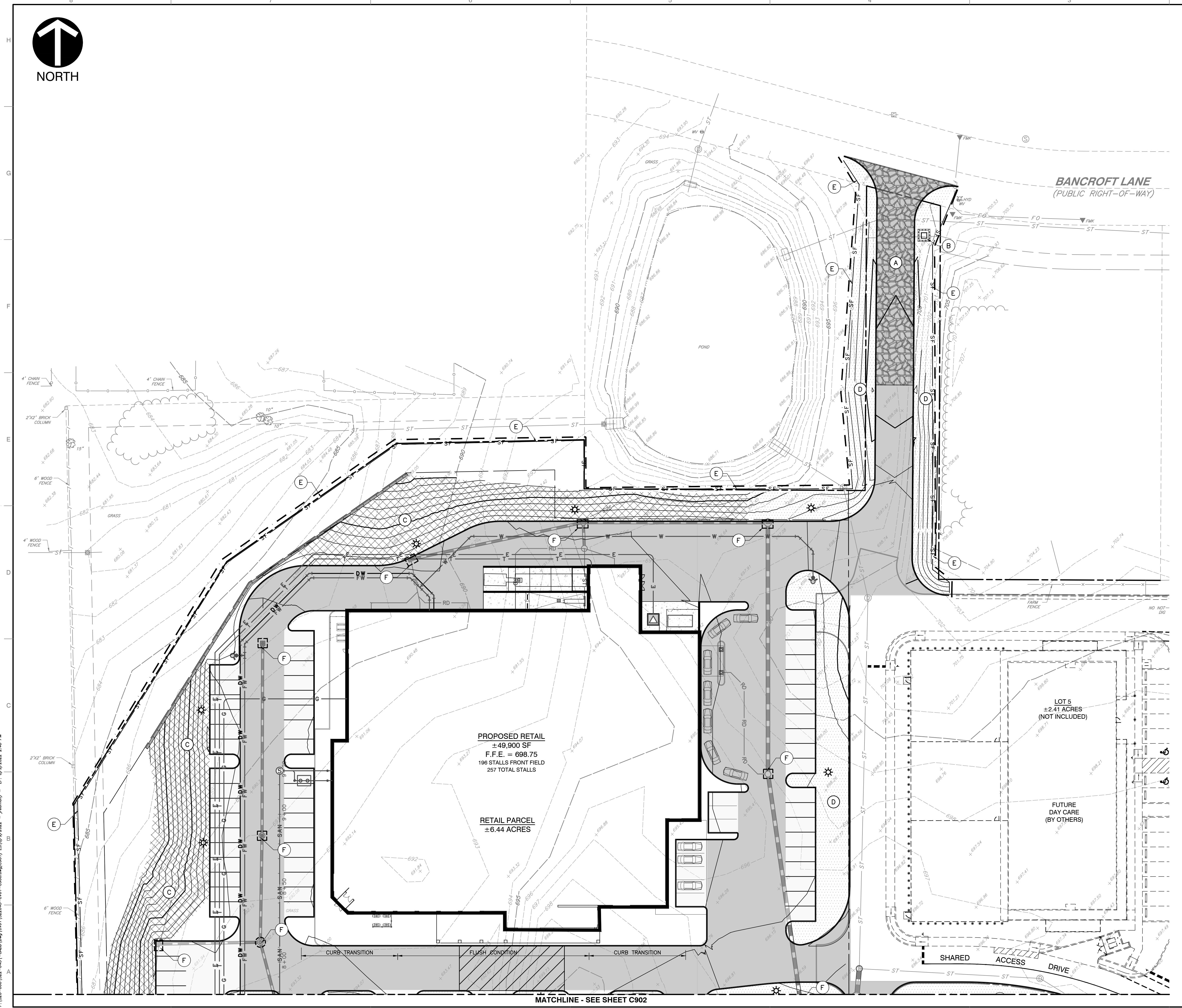
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NORTH



REFERENCE:	
1.	SEE DRAWING C900 FOR GENERAL NOTES AND SHEET SPECIFIC NOTES.
2.	CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
PROPOSED LEGEND:	
	PROPOSED CONSTRUCTION ENTRANCE
	EROSION CONTROL BLANKET OVER SEED OVER 4" LAYER OF COMPACTED TOPSOIL
	PERMANENT/TEMPORARY SEEDING AREAS OVER 4" LAYER OF COMPACTED TOPSOIL
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED SILT FENCE
	PROPOSED INLET PROTECTION
	PROPOSED CONCRETE WASHOUT

KEY NOTES	
	CONSTRUCTION ENTRANCE; SEE DETAIL ON SHEET C904.
	CONCRETE WASHOUT; SEE DETAIL ON SHEET C904.
	EROSION CONTROL BLANKET; SEE DETAIL ON SHEET C904.
	SEEDING AREAS
	SILT FENCE; SEE DETAIL ON SHEET C904.
	INLET PROTECTION; SEE DETAIL ON SHEET C904.

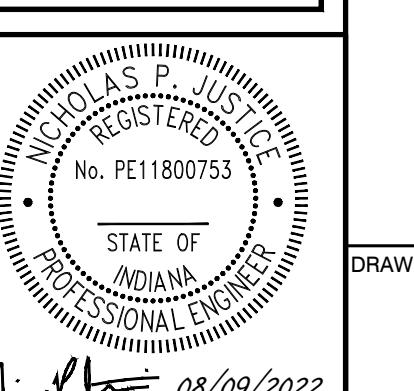
**ECHO GREENWOOD, LLC**  
**SMITH VALLEY & MORGANTOWN ROAD**  
**GREENWOOD, IN**

**Civil & Environmental Consultants, Inc.**  
 530 E. Ohio Street • Suite G - Indianapolis, IN 46204  
 www.cecinc.com

**STORMWATER POLLUTION  
PREVENTION PLAN**

**C901**

**DATE:** AUGUST 9, 2022 **DRAWN BY:** JAR  
**DWG SCALE:** 1" = 30' **CHECKED BY:** DRAFT  
**PROJECT NO.:** 322-005 **APPROVED BY:** DRAFT





## ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS (SECTION A)

(A1) INDEX OF THE LOCATION OF THE REQUIRED PLAN ELEMENTS IN THE CONSTRUCTION PLAN  
THE PROPOSED EROSION CONTROL MEASURES CAN BE FOUND ON SHEET C901-C902. THE CORRESPONDING EROSION CONTROL DETAILS ARE SHOWN ON C904. THE REQUIRED EROSION CONTROL CHECKLIST ITEMS ARE LISTED ON THIS SHEET.

(A2) A VICINITY MAP DEPICTING THE PROJECTS SITE LOCATION  
THE VICINITY MAP SHOWING THE PROJECT LOCATION CAN BE SEEN ON COVER SHEET.

(A3) NARRATIVE OF THE NATURE AND PURPOSE OF THE PROJECT  
THIS PROJECT CONSISTS OF A NEW GROCERY STORE, RETAIL BUILDING, AND 3 OUTPARCEL LOTS.

(A4) LATITUDE AND LONGITUDE TO THE NEAREST FIFTEEN (15) SECONDS  
LONGITUDE: 86° W 11' 54"  
LATITUDE: 39° N 36' 24"

(A5) LEGAL DESCRIPTION  
NO LEGAL DESCRIPTION PROVIDED BY SITE SURVEYOR.

TOWNSHIP: 13 N RANGE: 3 E SECTION: 33

(A6) 11X17-INCH PLAT SHOWING BUILDING LOT NUMBERS/BOUNDARIES AND ROAD LAYOUT/NAME  
PLEASE REFER TO SHEET C200, SITE LAYOUT PLAN INCLUDED WITH THE SUBMITTAL.

(A7) BOUNDARIES OF THE ONE HUNDRED (100) YEAR FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS  
THE PROJECT DOES NOT LIE WITHIN A 100 YEAR FLOODPLAIN AND/ OR THE FLOODWAY AREA.

(A8) LAND USE OF ALL ADJACENT PROPERTIES  
THE EXISTING LAND USES ADJACENT TO THE SITE ARE AS FOLLOWS:

NORTH: COMMERCIAL  
WEST: COMMERCIAL  
SOUTH: COMMERCIAL  
EAST: COMMERCIAL

(A9) IDENTIFICATION OF A U.S. EPA APPROVED OR ESTABLISHED TMDL (TOTAL MAXIMUM DAILY LOAD)  
TMDL: NOT APPLICABLE.

POLLUTANTS: NOT APPLICABLE.

(A10) NAME(S) OF THE RECEIVING WATER(S)

DISCHARGES INTO THE EXISTING DETENTION POND NORTH OF THE SITE THEN ULTIMATELY DISCHARGES INTO THE EXISTING DITCH NORTH OF THE SITE.

(A11) IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303(d) LIST OF IMPAIRED WATERS AND THE POLLUTANT(S) FOR WHICH IT IS IMPAIRED

THESE ARE NO WATERS CURRENTLY ON THE 303(d) LIST OF IMPAIRED WATERS THAT ARE RECEIVING DIRECT DISCHARGES FROM THIS SITE.

(A12) SOIL MAP OF THE PREDOMINATE SOIL TYPES  
REFER TO SHEET C900.

(A13) IDENTIFICATION AND LOCATION OF ALL KNOWN WETLANDS, LAKES, AND WATER COURSES ON OR ADJACENT TO THE PROJECT SITE (CONSTRUCTION PLAN, EXISTING SITE LAYOUT)

THESE ARE NO WETLANDS ON OR ADJACENT TO THE IMMEDIATE PROJECT BOUNDARY. THE SITE IS SOUTH OF THE BIG BLUE RIVER.

(A14) IDENTIFICATION OF ANY OTHER STATE OR FEDERAL WATER QUALITY PERMITS OR AUTHORIZATIONS THAT ARE REQUIRED FOR CONSTRUCTION ACTIVITIES  
AN IEM DEM CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP) NOTICE OF INTENT (NOI) PERMIT WILL BE REQUIRED FOR THIS PROJECT.

(A15) IDENTIFICATION AND DELINEATION OF EXISTING COVER, INCLUDING NATURAL BUFFERS  
THE EXISTING SITE IS CURRENTLY COVERED BY: WOODED, VEGETATION, AND PAVEMENT.

(A16) EXISTING SITE TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO INDICATE DRAINAGE PATTERNS  
REFER TO EXISTING TOPOGRAPHY SHEET.

(A17) LOCATION(S) WHERE RUN-OFF ENTERS THE PROJECT SITE  
REFER TO SHEET C900.

(A18) LOCATION(S) WHERE RUN-OFF DISCHARGES FROM THE PROJECT SITE PRIOR TO LAND DISTURBANCE  
REFER TO SHEET C900.

(A19) LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE  
REFER TO EXISTING TOPOGRAPHY SHEET.

(A20) EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS, DESIGNED FOR THE PURPOSE OF STORMWATER MANAGEMENT  
REFER TO SHEET C900.

(A21) LOCATIONS WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUND WATER, SUCH AS ABANDONED WELLS, SINKHOLES, OR KARST FEATURES  
THERE ARE NO SINKHOLES OR UNCAPPED ABANDONED WELLS LOCATED ON THE PROJECT SITE OR DOWNSTREAM OF THE PROJECT SITE.

(A22) SIZE OF THE PROJECT AREA EXPRESSED IN ACRES  
THE PROJECT SITE AREA IS APPROXIMATELY 10.42 ACRES. REFER TO SHEET C900.

(A23) TOTAL EXPECTED LAND DISTURBANCE EXPRESSED IN ACRES  
THE OVERALL DISTURBED AREA IS APPROXIMATELY 9.60 ACRES. REFER TO SHEET C900.

(A24) PROPOSED FINAL TOPOGRAPHY  
REFER TO GRADE PLAN SHEET C300.

(A25) LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS  
REFER TO SHEET C900.

(A26) LOCATIONS, SIZE, AND DIMENTIONS OF ALL STORMWATER DRAINAGE SYSTEMS SUCH AS CULVERTS, STORMWATER SEWER, AND CONVEYANCE CHANNELS  
REFER TO SITE DEVELOPMENT PLAN SHEET C400.

(A27) LOCATIONS OF SPECIFIC POINTS WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE  
DISCHARGES INTO THE EXISTING DETENTION POND NORTH OF THE SITE THEN ULTIMATELY DISCHARGES INTO THE EXISTING DITCH NORTH OF THE SITE.

(A28) LOCATION OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING ROADS, UTILITIES, LOT DELINEATION AND IDENTIFICATION, PROPOSED STRUCTURES, AND COMMON AREAS  
THE PROJECT BOUNDARIES CAN BE SEEN ON SHEETS C200, C400, & C500.

(A29) LOCATION OF ALL ON-SITE AND OFF-SITE SOIL STOCKPILES AND BORROW AREAS  
NO PERMANENT SOIL STOCKPILES ARE PLANNED FOR THIS DEVELOPMENT. IF TEMPORARY STOCKPILE OR BORROW AREAS ARE UTILIZED DURING CONSTRUCTION THEN THE PERIMETER OF THE STOCKPILE AREA SHALL BE ENCOMPASSED WITH SILT FENCE.

(A30) CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPECTED TO BE PART OF THE PROJECT  
THE CONSTRUCTION SUPPORT ACTIVITIES CAN BE SEEN ON SHEETS C900.

(A31) LOCATION OF ANY IN-STREAM ACTIVITIES THAT ARE PLANNED FOR THE PROJECT INCLUDING, BUT NOT LIMITED TO, STREAM CROSSING AND PUMP AROUNDS  
IN STREAM ACTIVITIES ARE NOT PLANNED FOR THIS PROJECT.

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## ASSESSMENT OF STORMWATER POLLUTION PREVENTION PLAN CONSTRUCTION COMPONENT (SECTION B)

(B1) DESCRIPTION OF THE POTENTIAL POLLUTANT GENERATING SOURCES AND POLLUTANTS, INCLUDING ALL POTENTIAL NON-STORMWATER DISCHARGES  
POTENTIAL POLLUTANTS SOURCES RELATIVE TO A CONSTRUCTION SITE MAY INCLUDE, BUT ARE NOT LIMITED TO MATERIAL AND FUEL STORAGE AREAS, FUELING LOCATIONS, EXPOSED SOILS AND LEAKING VEHICLE/EQUIPMENT, POTENTIAL POLLUTANTS THAT MAY APPEAR AT THE SITE DUE TO CONSTRUCTION ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO DIESEL FUEL, GASOLINE, CONCRETE AND CONCRETE WASHOUT, SOLID WASTE, SEDIMENT, PAINT AND SOLVENTS, EQUIPMENT REPAIR PRODUCTS, ANTI-FREEZE AND FERTILIZER.

(B2) STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS  
THE LOCATION OF THE CONSTRUCTION ENTRANCE IS ON SHEET C900.

(B3) SPECIFICATIONS FOR TEMPORARY AND PERMANENT STABILIZATION  
TEMPORARY SEEDING AND EROSION CONTROL MATTING WILL BE USED AS TEMPORARY SURFACE STABILIZATION MEASURES. DUE TO THE ACCELERATED CONSTRUCTION TIMELINE OF THIS PROJECT, TEMPORARY SEEDING SHOULD NOT BE NECESSARY. REFER TO SHEETS C900 FOR SEEDING AREAS.

APPLY SEED UNIFORMLY.

INSPECT 24 HOURS AFTER EACH RAIN EVENT AND OR AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. USE PHOSPHOROUS FREE FERTILIZER (12-0-12) UNLESS SOIL TESTING SHOWS A NEED.

PERMANENT SEEDING WILL BE USED AS PERMANENT SURFACE STABILIZATION MEASURES. REFER TO SHEETS C900 FOR SEEDING AREAS. CONTRACTOR TO SEED ALL DISTURBED AREAS.

INSPECT 24 HOURS AFTER EACH RAIN EVENT AND OR AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. USE PHOSPHOROUS FREE FERTILIZER (12-0-12) UNLESS SOIL TESTING SHOWS A NEED.

(B4) SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS  
EROSION CONTROL BLANKETS WILL BE USED AS EROSION CONTROL MEASURES FOR CONCENTRATED FLOWS. THE LOCATION, DETAILS, AND SPECIFICATIONS FOR EACH STATED CONCENTRATED FLOW MEASURE IS ON SHEETS C900-C902.

(B5) SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS  
SILT FENCE, TEMPORARY SEEDING, AND EROSION CONTROL INLET PROTECTION WILL BE USED AS EROSION CONTROL MEASURES FOR SHEET FLOWS. THE LOCATION, DETAILS, AND SPECIFICATIONS FOR EACH STATED CONCENTRATED FLOW MEASURE IS ON SHEETS C900-C902.

(B6) RUNOFF CONTROL MEASURES  
FILTER SOCK, TEMPORARY SEEDING, AND EROSION CONTROL INLET PROTECTION WILL BE USED AS A RUNOFF CONTROL MEASURES FOR CONCENTRATED FLOWS. THE LOCATION, DETAILS, AND SPECIFICATIONS FOR EACH STATED CONCENTRATED FLOW MEASURE IS ON SHEETS C900-C902.

(B7) STORMWATER OUTLET PROTECTION LOCATION AND SPECIFICATIONS  
REFER TO PLANS FOR THE LOCATION, DETAILS, AND SPECIFICATIONS FOR OUTLET PROTECTION- SHEETS C900-C902.

(B8) GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS  
EROSION CONTROL BLANKETS WILL BE USED IN THIS PHASE ON GRADES GREATER THAN 3:1 AND/ OR EXPOSED TO CONCENTRATED FLOW. REFER TO CONSTRUCTION PLANS FOR LOCATIONS.

IF LIME STABILIZATION MEASURES ARE NEEDED DURING CONSTRUCTION TO OBTAIN COMPACTION, THE CONTRACTOR SHALL CONTAIN LIME FROM ENTERING EXISTING STORM SEWER SYSTEM BY ADEQUATELY CONTROLLING RUNOFF. CONTACT ENGINEER FOR SPECIFIC PLANS BASED ON THE AREA OF WORK.

(B9) DEWATERING APPLICATIONS AND MANAGEMENT METHODS  
DEWATERING NOT APPLICABLE TO SITE.

(B10) MEASURES UTILIZED FOR WORK WITHIN WATERBODIES  
NO WORK WILL BE OCCURRING WITHIN WATERBODIES.

(B11) MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY SERVICE

EROSION CONTROL MEASURE MAINTENANCE

STONE ENTRANCE AS NEEDED PRIOR TO CLEARING AND GRADING

WEEKLY, AFTER STORM EVENTS AND AS NEEDED PRIOR TO CLEARING AND GRADING

ROCK CHECK DAMS AS NEEDED ALONG WITH ROUGH GRADING

PERMANENT SEEDING AS NEEDED ALONG WITH ROUGH GRADING

EROSION CONTROL BLANKET AS NEEDED AFTER FINISH GRADING

SEED, SOD & LANDSCAPE AROUND WATER AS NEEDED AFTER FINISHED GRADING

DUST CONTROL AS NEEDED ALONG WITH ALL EARTHWORK ACTIVITIES

CONCRETE WASHOUT WEEKLY, AFTER STORM EVENTS AND AS NEEDED PRIOR TO START OF ANY CONCRETE WORK

SILT FENCE

REMOVAL OF INLET PROTECTION N/A AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

REMOVAL OF SILT FENCE N/A AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

REMOVAL OF ROCK CHECK DAMS N/A AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

- SEE CHART FOR MAINTENANCE REQUIREMENTS

EROSION CONTROL MEASURES MAINTENANCE REQUIREMENTS

SILT FENCE MAINTENANCE REQUIREMENTS:

1. INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.

2. TENCING, SEEDS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOME INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.

3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF OF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR CALM DOWN THE FABRIC TO BULGE.

4. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUTS.

5. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE THE DRAINAGE CHANNEL.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS:

1. INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER STORM EVENTS OR HEAVY USE.

2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.

3. DRESS WITH CLEAN STONE AS NEEDED.

4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT TRAP OR BASIN.

ROCK CHECK DAM MAINTENANCE REQUIREMENTS:

1. INSPECT CHECK DAMS AND THE CHANNEL AFTER EACH STORM EVENT, AND REPAIR ANY DAMAGE IMMEDIATELY.

2. REMOVE SEDIMENT ACCUMULATED BEHIND EACH DAM AS NEEDED TO MAINTAIN CHANNEL CAPACITY, TO ALLOW DRAINAGE THROUGH THE DAM, AND TO PREVENT LARGE FLOWS FROM DISPLACING SEDIMENT.

3. ADD AGGREGATE TO THE DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

4. WHEN THE DAMS ARE NO LONGER NEEDED, REMOVE THE AGGREGATE AND STABILIZE CHANNEL USING EROSION RESISTANT LINING IF NECESSARY.

INLET PROTECTION MAINTENANCE REQUIREMENTS:

1. INSPECT EACH INLET PROTECTION MEASURE WEEKLY AND AFTER STORM OR HEAVY USE.

2. INSPECT STREAM INLET BASKET OR GEOTEXTILE FABRIC AND MAKE REPAIRS.

3. REMOVE ANY SEDIMENT. AVOID DAMAGING OR UNDERCUTTING FABRIC.

(B12) STORMWATER QUALITY SEQUENCE

PRE-CONSTRUCTION ACTIVITIES:

SCHEDULE A PRE-CONSTRUCTION MEETING WITH CITY OF (CITY AND COUNTY) SOIL & WATER.

DESIGNATE A PERSON TO BE RESPONSIBLE FOR THE SITE INSPECTIONS AFTER EACH 1/2" RAIN AND A MINIMUM OF ONCE EACH WEEK.

CALL THE INDIANA UNDERGROUND PLANT PROTECTION SYSTEMS, INC. (HOLEY MOLEY) AT 1-800-382-5544 TO CHECK LOCATIONS OF ANY EXISTING UTILITIES- MIN, 2 DAYS PRIOR BEFORE CONSTRUCTION ACTIVITY.

ESTABLISH ON SITE LOCATION FOR OWNER/OPERATOR/CONTRACTOR PLACEMENT OF APPROVED PLANS AND CSGP NOI AND CSGP INSPECTION DOCUMENTATION.

INSTALL SILT FENCE AND OTHER EROSION CONTROL MEASURES AS INDICATED ON DRAWINGS.

INSTALL GRAVEL CONSTRUCTION ENTRANCE AS INDICATED ON DRAWINGS- ADD ADDITIONAL STONE AS NEEDED.

ESTABLISH CONSTRUCTION STAGING AREA FOR EQUIPMENT AND VEHICLES.

CONSTRUCTION ACTIVITY PHASING:

AFTER EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE, BEGIN LAND CLEARING FOLLOWED IMMEDIATELY BY ROUGH GRADING. EROSION CONTROL FOR LARGE UNPROTECTED AREAS MUST BE INITIATED WITHIN 7 DAYS OF EXPOSURE, AND MUST BE COMPLETE BY DAY 14 OF EXPOSURE. CONSTRUCT CONCRETE WASH STATION BEFORE CONCRETE WORK IS TO COMMENCE ON SITE. REFER TO PLAN FOR LOCATION.

INSTALL SEWERS, ALL

