CONSTRUCTION PLANS FOR:

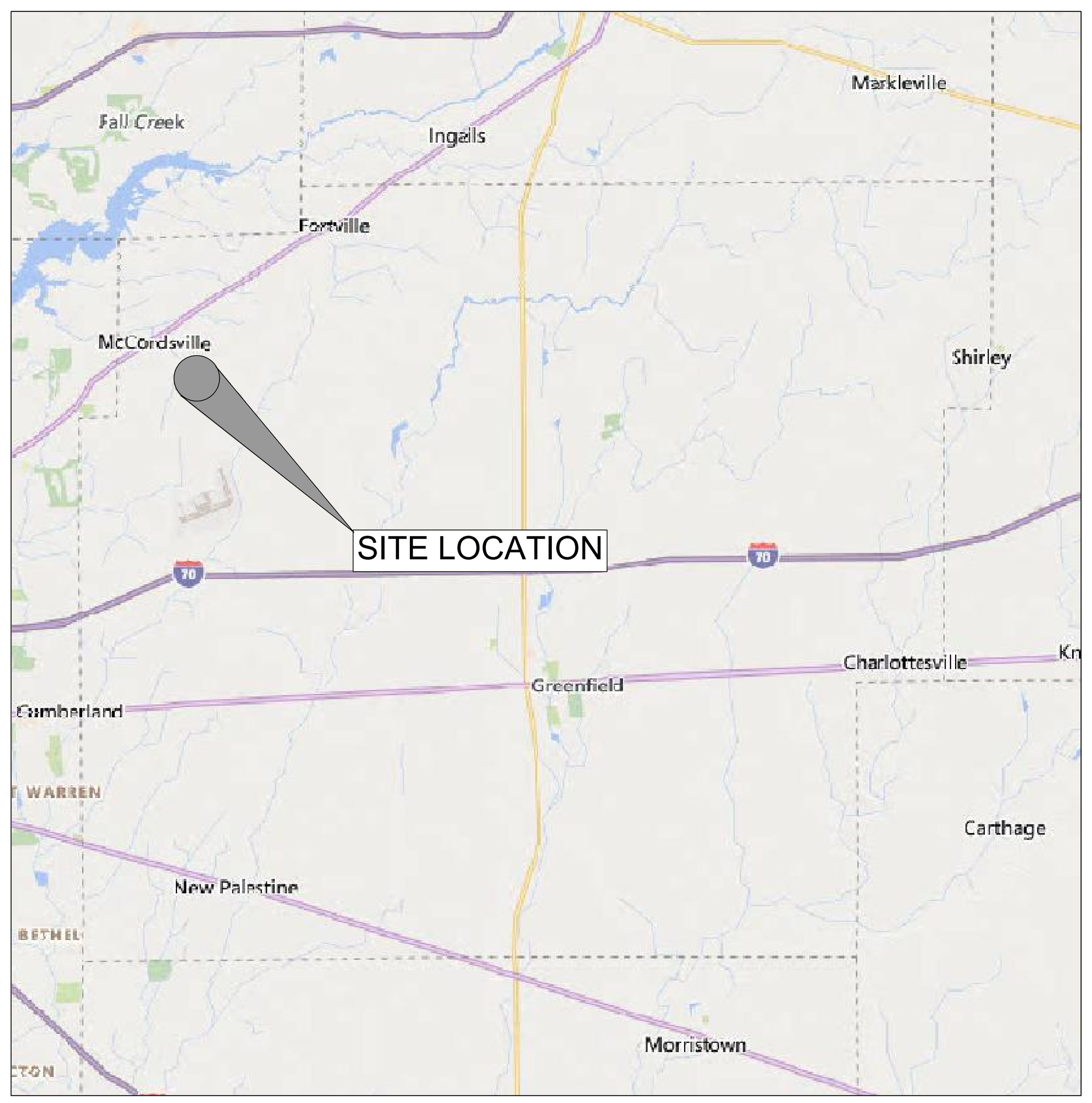
QDOBA MEXICAN EATS

MCCORDSVILLE

7419 W. 600 N.

CITY OF MCCORDSVILLE, HANCOCK COUNTY, INDIANA

SW $\frac{1}{4}$, SECTION 2, TOWNSHIP 16N, RANGE 5E



COUNTY LOCATION MAP

NOT TO SCALE

SITE VICINITY & ZONING MAP

NOT TO SCALE

PLANS PREPARED FOR:

JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074
Contact Person: JR FREIBURGER
317-714-8386
JR@JRFCONSTRUCTION.COM

OPERATING AUTHORITIES:

Town of Mccordsville Engineering
6280 W 800 N
McCordsville, IN 46055
(317) 335-3604

Town of Mccordsville Planning
6280 W 800 N
McCordsville, IN 46055
(317) 335-3604

Town of Mccordsville Stormwater
6280 W 800 N
McCordsville, IN 46055
(317) 335-3493

Town of Mccordsville Streets
6280 W 800 N
McCordsville, IN 46055
(317) 335-3493

Town of Mccordsville Water and Wastewater
6280 W 800 N
McCordsville, IN 46055
(317) 335-1044

Hancock County Surveyor
111 American Legion Place, Suite 171
Hancock County Annex
Greenfield, IN 46140
317-477-1150

Hancock County Soil and Water Conservation District
1101 W Main St N. Greenfield, IN 46140
317-462-2283

Vectren Energy - Gas
16000 Allisonville Road
Noblesville, IN 46061
317-776-5560

Ninestar Connect - Electric and Fiber Optic
2243 E Main St.
Greenfield, IN 46140
317-326-3131

GENERAL NOTES:

1. THE CONSTRUCTION PLANS SHALL GOVERN OVER ANY OTHER FORM OF MEDIA, WHICH INCLUDES DIGITAL FILES OF THIS PROJECT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, STATE & FEDERAL AGENCIES PRIOR TO STARTING CONSTRUCTION.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINATE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION. ONCE ALL UTILITIES HAVE BEEN LOCATED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DRAWINGS.
4. BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
5. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS FOR THE GOVERNING MUNICIPALITY REQUIREMENTS.
6. MAINTENANCE OF TRAFFIC NEEDED FOR THIS PROJECT SHALL BE INSTALLED AND MAINTAINED PER INDOT SPECIFICATIONS / STANDARD DRAWINGS, INDOT DESIGN MANUAL, AND THE INDIANA MUTCD MANUAL, ALONG WITH GOVERNING MUNICIPALITY REQUIREMENTS. COORDINATE WITH THE ENGINEER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND SHALL VERIFY ALL DIMENSIONS ON THE SITE PRIOR TO START OF CONSTRUCTION. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
8. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
9. ALL GRADES AT THE BOUNDARY SHALL MEET EXISTING GRADES.
10. NO WORK SHALL BE CONSTRUCTED OFFSITE UNLESS SHOWN OR DENOTED OTHERWISE WITHIN THESE PLANS.
11. NO CONSTRUCTION WORK SHALL BE PERFORMED WITHIN THE ADJACENT OR ONSITE WATER TRIBUTARIES / WATERCOURSES UNLESS SHOWN AND DENOTED AS SUCH OTHERWISE WITHIN THESE PLANS.
12. CONTRACTOR SHALL MINIMIZE DAMAGE TO ANY EXISTING TREES UNLESS NOTED OTHERWISE.
13. ALL CONSTRUCTION ACTIVITY ON THIS SITE IS TO PERFORMED IN COMPLIANCE WITH ALL APPLICABLE O.S.H.A. STANDARDS FOR WORKERS SAFETY.
14. BEARINGS, DIMENSIONS, AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.

SITE DATA:

TOTAL SITE ACREAGE - 0.99 AC.
TOTAL ACREAGE OF DISTURBANCE - 0.85 AC.
GROSS SQUARE FOOTAGE OF BUILDING - 5,350 S.F.

PROPOSED CONSTRUCTION START - DECEMBER 1, 2023
PROPOSED CONSTRUCTION END - OCTOBER 31, 2024
WORK IS SCHEDULED TO BE COMPLETED IN ONE CONTINUOUS CONSTRUCTION PHASE.

SURVEY CONTROL AND VERTICAL DATUM (BENCHMARK) INFORMATION:

- SURVEY CONTROL BY OTHERS: R/W ENGINEERING (SEE ATTACHED SURVEYS FOR ADDITIONAL INFORMATION)
- HORIZONTAL DATUM: NAD83
  COORDINATE SYSTEM / BASIS OF BEARING: INDIANA STATE PLANE EAST

SPECIFICATIONS:

1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE MCCORDSVILLE STANDARDS, DETAILS, AND SPECIFICATIONS (STANDARDS), LATEST EDITIONS, UNLESS SPECIFICALLY NOTED OTHERWISE.
2. INDIANA STATE DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD DRAWINGS AND SPECIFICATIONS, LATEST EDITIONS, SHALL BE INCORPORATED INTO AND UTILIZED WITH THESE PLANS (SUPPLEMENTAL SPECIFICATIONS AND DETAILS).
3. MCCORDSVILLE WATER STANDARDS, DETAILS, AND SPECIFICATIONS, LATEST EDITIONS, SHALL BE INCORPORATED INTO AND UTILIZED WITH THESE PLANS AS IT PERTAINS TO WATER LINE CONSTRUCTION.
4. MCCORDSVILLE AND MT VERNON TWP. FIRE DEPARTMENT STANDARDS, DETAILS AND SPECIFICATIONS SHALL BE UTILIZED FOR ALL ALL FIRE PROTECTION WATER LINES AND APPURTENANCE CONSTRUCTION AS IT RELATES TO THIS PROJECT.
3. MCCORDSVILLE SANITARY SEWER STANDARDS, DETAILS, AND SPECIFICATIONS, LATEST EDITIONS, SHALL BE INCORPORATED INTO AND UTILIZED WITH THESE PLANS AS IT PERTAINS TO SANITARY MAINS AND LATERAL CONSTRUCTION.
4. THE INDIANA MUTCD MANUAL, LATEST EDITION, SHALL BE INCORPORATED INTO AND UTILIZED WITH THESE PLANS.

MAINTENANCE OF TRAFFIC (MOT) NOTES:

ALL MAINTENANCE OF TRAFFIC SHALL BE DESIGNED TO, FOLLOW, AND BE INSTALLED PER THE INDIANA MUTCD MANUAL, INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) SPECIFICATIONS AND STANDARD DRAWINGS, AND INDOT DESIGN MANUAL.

SIGNS & PAVEMENT MARKING NOTES:

ALL SIGNS AND PAVEMENT MARKINGS AND STRIPING SHALL MEET THE CURRENT EDITION OF THE INDIANA MUTCD MANUAL, TRAFFIC CONTROL FOR BICYCLE FACILITIES, AND INDOT STANDARD DRAWINGS AND SPECIFICATIONS AND SHALL BE INSTALLED PER THE INDIANA MUTCD MANUAL, INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) SPECIFICATIONS AND STANDARD DRAWINGS, AND INDOT DESIGN MANUAL.

QUANTITIES NOTE:

ANY AND ALL QUANTITY TABLES, NOTES OR VALUES AS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. THE PLANS, DETAILS, AND SPECIFICATIONS GOVERN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE ENTIRE CONSTRUCTION SET AND DETERMINE ALL THE FINAL QUANTITIES FOR ALL NECESSARY ITEMS REQUIRED TO COMPLETE THIS PROJECT. THE OWNER OR THE ENGINEER WILL NOT BE HELD LIABLE OR RESPONSIBLE FOR ESTIMATES NOT CONFIRMED BY THE CONTRACTORS. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BIDDING AND CONSTRUCTION. IF DISCREPANCIES ARE FOUND, CONTACT THE ENGINEER IMMEDIATELY.

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
C100	COVER SHEET
C101	GENERAL INFORMATION PLAN
C102	SURVEY (BY OTHERS)
C103	EXISTING CONDITIONS & DEMOLITION PLAN
C201	SITE PLAN
C301	GRADING PLAN
C401	UTILITY & DRAINAGE PLAN
C402	STORM PLAN & PROFILES
C403	STORM PLAN & PROFILES
C501	INITIAL EROSION CONTROL SWPPP
C502	MASS GRADING & CONSTRUCTION SWPPP
C503	POST CONSTRUCTION SWPPP
C504	SWPPP SEQUENCING & SOILS INFORMATION
C505	EROSION CONTROL DETAILS
C601	CURB RAMP & ADA BLOW-UP DIAGRAMS
C602	CURB RAMP & ADA BLOW-UP DIAGRAMS
C603	CURB RAMP & ADA BLOW-UP DIAGRAMS
C604	INDOT CURB RAMP DETAILS
C801	SITE DETAILS
C802	SITE DETAILS
C803	UTILITY DETAILS
C901	GENERAL SPECIFICATIONS
L101	LANDSCAPE PLAN

E101	SITE LIGHTING PLAN (BY OTHERS)
1 - 10	MCCORDSVILLE TOWN STANDARDS

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
QDOBA MEXICAN EATS
MCCORDSVILLE

PROJECT LOCATION:
7419 W. 600 N.
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW $\frac{1}{4}$, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

PLAN DATE: 09/22/23

DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2307011

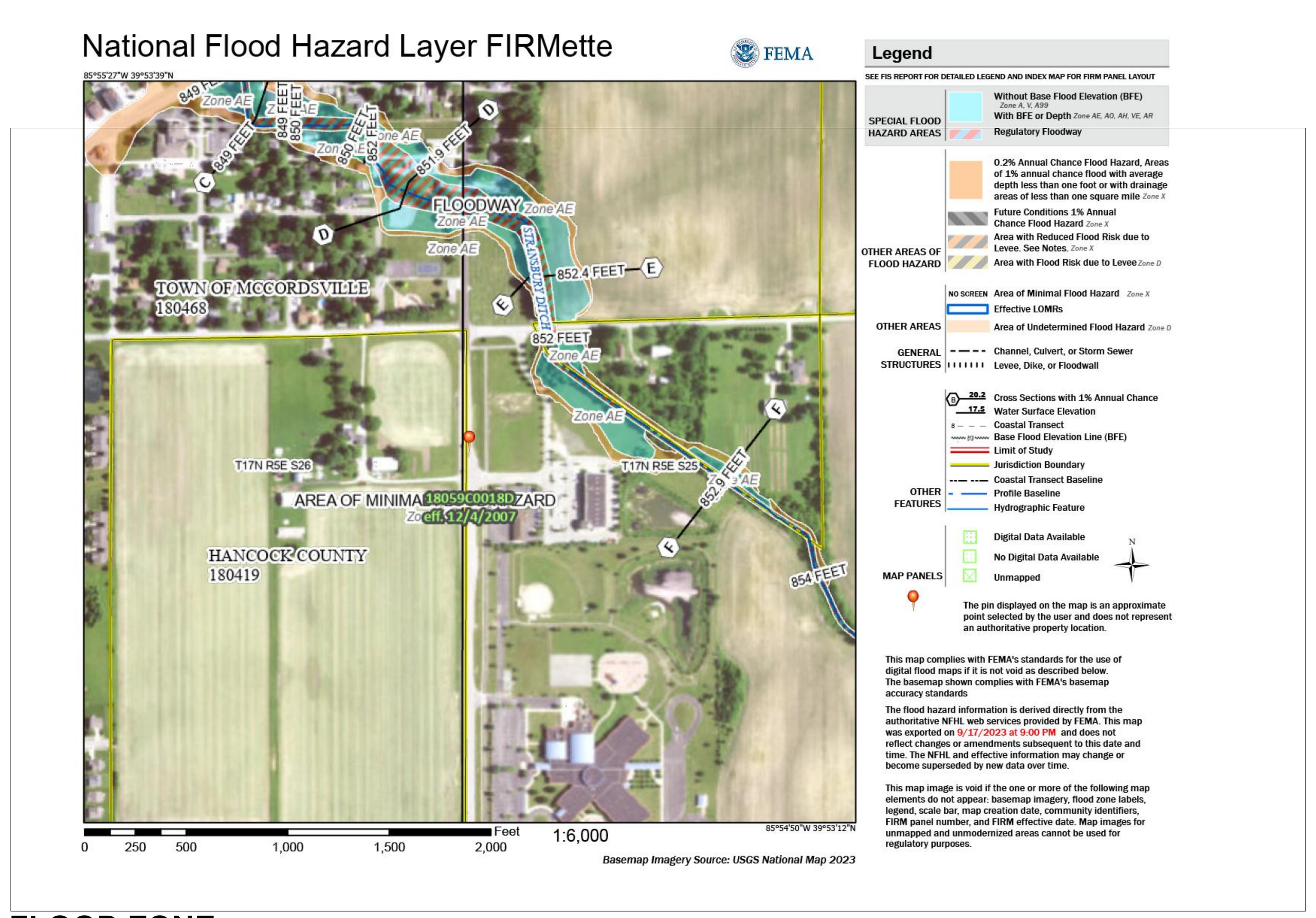
SHEET NAME: COVER SHEET

SHEET NO. C100

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Br	Brookston silty clay loam, 0 to 2 percent slopes	0.2	17.2%
CrA	Crosby silt loam, New Castle Till Plain, 0 to 2 percent slopes	1.2	82.8%
YcuA	Crosby silt loam-Urban land complex, 0 to 2 percent slopes	0.0	0.0%
Totals for Area of Interest		1.4	100.0%

SOILS MAP AND INFORMATION



FLOOD ZONE:
THE PROJECT SITE IS LOCATED WITHIN THE FEMA COMMUNITY PANEL MAP NO. 18059C0018D WITH AN EFFECTIVE DATE OF 12/4/2007. REVIEW OF THE MAP INDICATES THE SITE IS LOCATED WITHIN THE FLOOD DESIGNATION 'ZONE X' (UNSHADED), “AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN”.

FLOOD MAP & FLOOD ZONE INFORMATION

PRINTED BY: Ashton Fritz
DATE: 9/21/2023 11:43 AM
SHEET SIZE, SCALE: ANSI FULL BLEED D (34.00 X 22.00 INCHES), 1:1
FILE NAME: F:\2023\2307011 - QDOBA RETAIL MCCORDSVILLE\03 CIVIL\PLANS

SURVEY NOTES:

1. The utilities indicated on these construction plans and on the survey may not be a compete inventory of all existing utilities currently on or near the site. The size and location of these utilities may be approximate. The engineer shall not be held liable for any inaccurate utility information indicated, or not indicated on this survey.
2. Boundary & Topographic Survey information provided herein was obtained by research and field work performed by others. Fritz Engineering Services, LLC shall not be responsible for any existing conditions shown or not shown within this set of plans.

DEMOLITION NOTES:

1. It shall be the responsibility of the contractor to remove any materials and/or structures not located on this survey.
2. It shall be the responsibility of the contractor to verify all existing utilities and their locations pertaining to their phase of work, and to verify which utilities will be removed by the utility company. Any and all utilities not removed by the utility company shall be removed by the contractor.
3. Utility locations shown are approximate and shall be relocated and/or capped at the Right-Of-Way line and abandoned before construction at no additional cost to the owner.
4. The owner gets the first right of salvage.
5. All demolition material not being salvage shall be properly disposed of offsite by the contractor.
6. The contractor shall obtain all demolition permits required by the local and state agencies.
7. The contractor shall maintain streets and shared drives free and clear of sediment and debris.
8. The contractor is responsible for the protection of all existing utility lines unless otherwise stated.
9. Contractor shall coordinate all temporary shut down of existing utility services with the appropriate utility department, owner, authority, etc.
10. Contractor shall coordinate any necessary street or drive closures required.

SITE/LAYOUT NOTES:

1. See architectural plans for all building dimensions. Any dimensions shown herein shall be considered conceptual.
2. All dimensions are to edge of pavement or face of curb, unless noted otherwise.
3. All dimensions are to face of brick or facing material, unless noted otherwise.
4. All parking area stripes are to be 4 inch white paint. Handicapped parking areas and access aisles shall be 4 inch blue paint.
5. Provide smooth transitions from new areas to existing features as appropriate.
6. The edge of existing asphalt pavement shall be properly sealed with a tack coat material in all areas where new asphalt pavement is indicated to join existing pavement.
7. Provide chamfer ends at curbs.
8. Verify sign locations & sign requirements with local governing municipality. Signs shall meet Indiana MUTCD Manual and specifications.

GRADING NOTES:

1. Earthwork & grading shall not start until erosion control measures have been properly installed.
2. Occupational safety and health administration (OSHA) standards for excavations; Final Rule 29 CFR Part 1926, subpart "P" applies to all excavations exceeding five (5) feet in depth.
3. Provide positive drainage that assures no ponding in all areas. After installation, contractor to test for, and correct, if any, standing water conditions are present.
4. All proposed spot elevations are the final pavement and grade elevations. See appropriate details and specifications to determine the subgrade elevations below finish grade elevations for construction.
5. All sanitary manholes in non-paved areas shall be 3" above grade.
6. The maximum slope to be used in non-paved areas shall be 3:1 unless specifically noted otherwise.
7. Minimum swale slopes are 1.0% unless noted or graded otherwise.
8. All A.D.A. parking spaces & access aisles shall be level with surface slopes not to exceed 2% (1:50) in any direction as which to comply with A.D.A requirements.
9. ADA sidewalk ramps shall meet ADA requirements and INDOT standard drawings and specifications.
10. All sidewalks cross slopes shall not exceed 2% (1:50) unless noted otherwise.
11. Provide smooth transitions from new areas to existing features as appropriate.
12. All grades shall match existing grades at the project property lines / limits.

UTILITY NOTES:

1. For viewing clarity of these construction plans, the pipes, structures, and appurtenances may not be drawn to scale.
2. Coordinate with Architect / M.E.P. and corresponding utility companies for exact size, type, and location for the electric, telephone, gas, fiber optic, and water line services. Utility service providers may require installation of onsite conduits. Contractor shall coordinate requirements for conduits including number, location, pull string, etc. with respective utility providers prior to bidding.
3. Location of the utility service connections into the buildings are approximate. See Architectural / M.E.P. plans for exact locations.
4. The contractor is responsible with coordinating with the utility companies for connection of the proposed utility lines for this project site.
5. Contractor shall coordinate final location of transformers and primary service to transformers with utility at time of service request. Contractor shall provide transformer pads as required by utility company.
6. The underdrains depicted on these plans for the storm structures located within the pavement are 10 liner feet minimum (unless specified otherwise within the plans) of 6 inch diameter perforated HDPE pipe. All underdrains shall maintain 18 inches of vertical and 10 feet of horizontal separation from all water and sanitary lines as measured from the outside of pipe walls.
7. Underdrains shall have a minimum slope of 1.0% and inverts shall be set a minimum of 6 inches above the outlet pipe, unless noted otherwise.
8. All storm HDPE pipe (except for underdrains or underground storage facilities) shall be N-12 (smooth walled) pipe, unless noted otherwise.
9. The location and orientation of the lids/castings as shown in respect to the structures and alignments as depicted on the plans represents the final and correct position of the lids / castings. Orienting the lids / castings to no particular direction and / or location could result in poor drainage or cause future construction issues. Contact engineer if discrepancies are found.
10. A minimum of 54 inches of cover over the entire water line shall be provided unless the water service utility company requires more stringent (deeper) specifications, and if so, the contractor shall meet those water company specifications.
9. All proposed water lines and sanitary lines / laterals shall have a minimum of 18 inches of vertical separation be maintained when crossing under or over each other, any other utilities, and storm sewer pipes and appurtenances.
10. All proposed water lines and sanitary lines / laterals shall have a minimum horizontal separation from pipe exterior to pipe exterior of 10 linear feet from each other and from storm sewers and appurtenances.
11. Full depth granular backfill required for all water lines, sanitary sewers, and storm sewers under and within 5 feet of pavement. / hardscapes.
12. All private hydrants shall have an isolation valve installed at the point of branching.
13. When connections are to be made to existing piping and structures, or where construction is in the vicinity of existing piping, structures, or appurtenances, the exact locations and elevations of the existing piping, structures and / or appurtenances shall be field verified onsite by the contractor prior to construction. If any discrepancies are found, then the engineer shall be notified immediately. Fritz Engineering Services, LLC shall not be responsible for any discrepancies that may arise between the plan information and actual field verified information as determined from any final onsite investigation from the contractor.

ABBREVIATIONS AND TERMS

IE / INV	= INVERT ELEVATION
BC	= BOTTOM OF CURB
TC	= TOP OF CURB
RIM	= RIM / TOP OF CASTING
GUT	= GUTTER
RCP	= REINFORCED CONCRETE PIPE
HDPE	= HIGH DENSITY POLYETHYLENE PIPE
SSD	= SUB-SURFACE DRAIN
UD	= UNDERDRAIN
MH	= MANHOLE
STR	= STRUCTURE
DE	= DRAINAGE EASEMENT
RD&UE	= REGULATED DRAIN AND UTILITY EASEMENT
D&UE	= DRAINAGE AND UTILITY EASEMENT
SD&UE	= SANITARY, DRAINAGE, AND UTILITY EASEMENT
W&UE	= WATER AND UTILITY EASEMENT
SE	= SANITARY EASEMENT
SAN	= SANITARY SEWER
HC	= HANDICAP RAMP
ME	= MATCH EXISTING
STM	= STORM SEWER
MPE	= MINIMUM PAD ELEVATION
NP	= NORMAL POOL
ELEV	= ELEVATION
TYP	= TYPICAL
PR	= PROPOSED
EX	= EXISTING
R	= RADIUS
B-B	= BACK TO BACK
ROW or R/W	= RIGHT OF WAY
LF	= LINEAR FEET

PROPOSED LEGEND

HYDRANT
VALVE
TEE
ADAPTER
BEND
FLH TEMP. FLUSH HYDRANT
BLOW-OFF
THRUST BLOCK
PLUG
REDUCER
M.J. SLEEVE
CROSS
M WATER METER
PIV POST INDICATOR VALVE
FIRE CONNECTION
T TRANSFORMER PAD
R RELOCATED ELECTRIC/TELEPHONE POLE
SIGN
HANDICAP PARKING
CO CLEAN OUT
STORMTECH STORM CHAMBER
SANITARY MANHOLE
STORM MANHOLE
STORM COMBINATION INLET
STORM GRATE INLET
STORM BEEHIVE/YARD DRAIN
STORM END SECTION
BMP/AQUA-SWIRL
STORM STRUCTURE NUMBER

FLOW LINE, PAVEMENT
FLOW LINE, SWALE (GRASS)
FD FOUNDATION DRAIN
TV CABLE TV LINE**
E ELECTRIC LINE**
FO FIBER OPTIC LINE
SUB-SURFACE DRAIN
UD STORM UNDERDRAIN
STORM SEWER
SANITARY SEWER
FM FORCE MAIN
G GAS LINE
T TELEPHONE LINE**
W / 8"W WATER LINE

**PREFIX FOR UTILITY LINES:
UG - UNDERGROUND
OH - OVERHEAD

FLOW ARROW
785 EXISTING CONTOURS
785 PROPOSED CONTOURS
FL:XXX.XX FLOW LINE ELEVATION
XXX.XX SPOT ELEVATION
XXX.XX H.P. HIGH POINT ELEVATION
XXX.XX L.P. LOW POINT ELEVATION
TC:XXX.XX BC:XXX.XX TOP/BOTTOM CURB ELEVATION
TW:XXX.XX BW:XXX.XX TOP/BOTTOM WALL ELEVATION
ME - MATCH EXISTING GRADE

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REVISIONS AND ISSUES	DATE	BY

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HANCOCK COUNTY

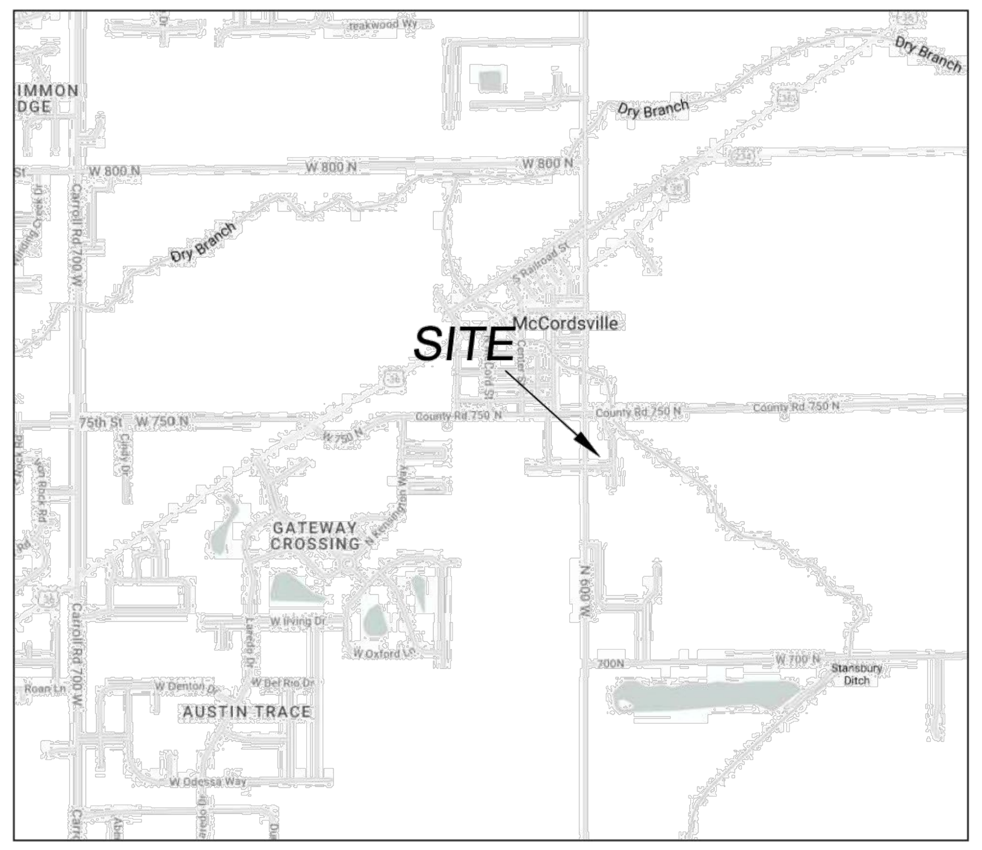
SECTION, TOWNSHIP, RANGE:
SW $\frac{1}{4}$, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

PLAN DATE: 09/22/23		
DESIGN: AF	CHECK: AF	DRAWN: KG
PROJECT NO. 2307011		
SHEET NAME GENERAL INFORMATION PLAN		
SHEET NO. C101		

REDUCED TO FIT SHEET. SURVEY NOT TO SCALE

NOTE:
THIS SHEET IS INCLUDED FOR REFERENCE ONLY AND MAY BE NOT TO BE SCALE AS LISTED. PLEASE REFER TO ORIGINAL SURVEY DOCUMENT.

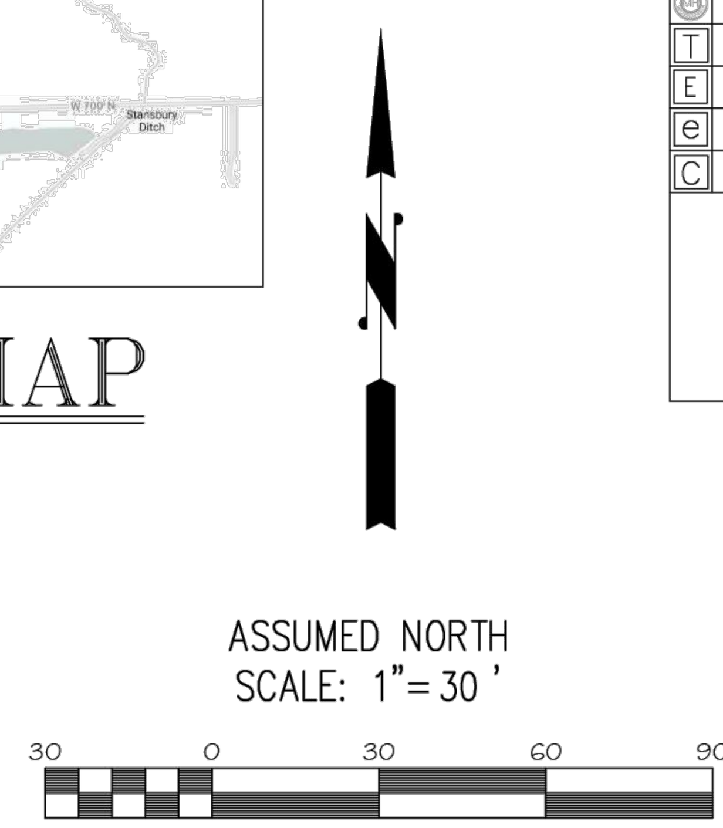


VICINITY MAP
NOT TO SCALE

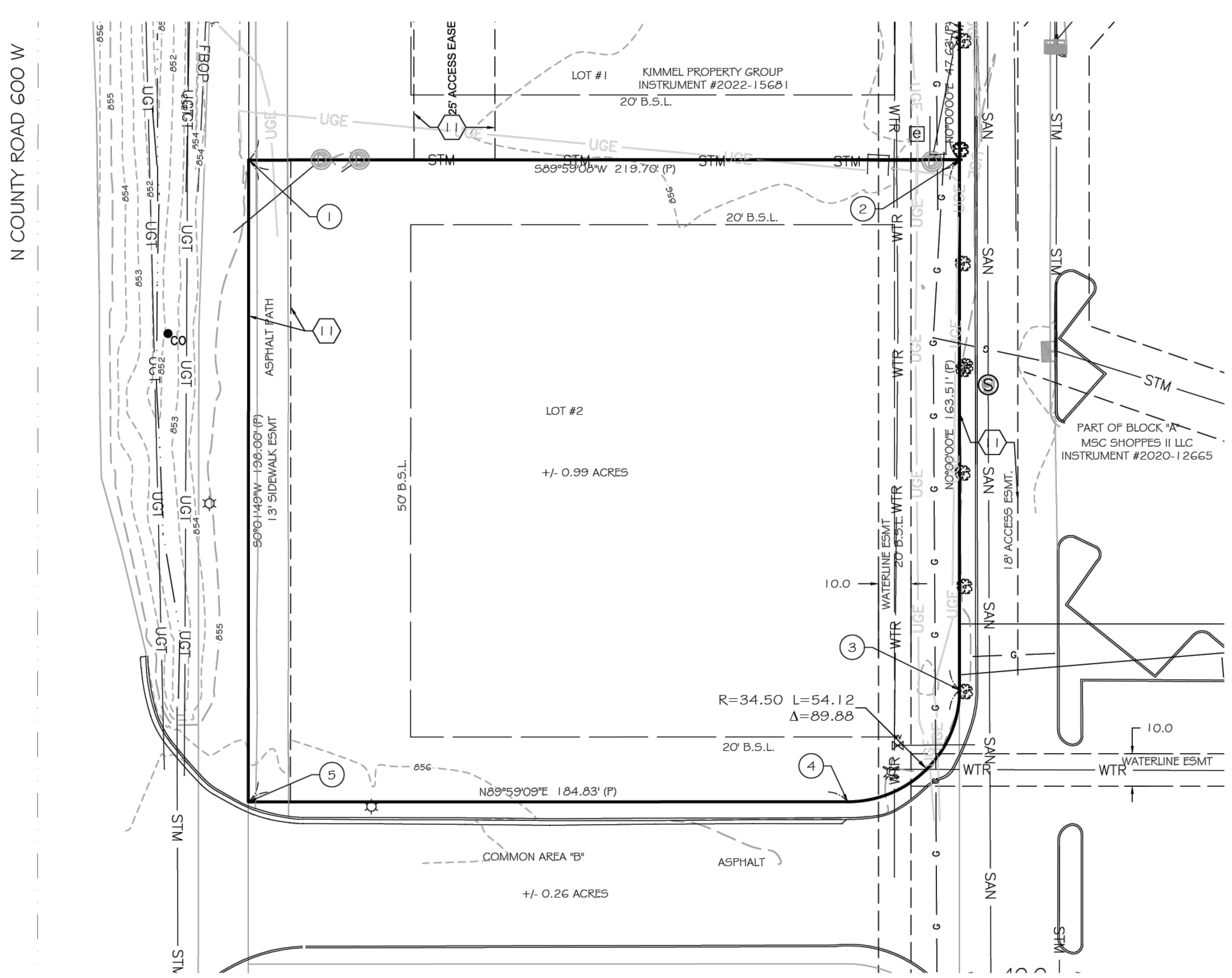
SYMBOL LEGEND

Curb Inlet	Water Valve	Post Indicator Valve
Storm Manhole	Fire Hydrant	Fire Dept. Connect
Storm Inlet	Water Meter	Handicap Parking
Sanitary Manhole	Gas Meter	Sign
Clean Out	Gas Valve	Bollard
Telephone Manhole	Electric Meter	Existing Tree
Traffic Manhole	Area Light	Capped Rebar Set
Telephone Pedestal	Utility Pole	Benchmark
Electric Transformer	Guy Anchor	(P) Plat Distance
Electric Pedestal	Yard Light	(M) Measured Distance
Cable Pedestal	Air Conditioner	(D) Deed Distance

Underground Telephone Marking
Underground Water Line Marking
Overhead Utility Lines
Underground Gas Line Marking
Storm Pipe Underground
Electric Line Marking



ASSUMED NORTH
SCALE: 1"= 30'



LAND DESCRIPTIONS

Chicago Title Insurance Company

2023-66467

Lot 2 in McCordsville Corner Shoppes, a Subdivision in Vernon Township, Hancock County, Indiana, according to the Second Amended Plat/Re-Plat For McCordsville Corner Shoppes, recorded October 5, 2022 as Instrument No. 2022-13320 in Plat Cabinet D, Slide 217, in the Office of the Recorder of Hancock County, Indiana.

Surveyors Comments:

This survey was prepared for Eden Court Capital LLC and Chicago Title Insurance Company.

Purpose:

The purpose of this project was to perform ALTA/NSPS Land Title Survey for the land described in "LAND DESCRIPTION". Field work and research from the offices of the Hancock County Recorder, and the Office of the Hancock County Surveyor were conducted during the month of July, 2023.

Reference Monumentation:

The northeast and northwest corners of the Southwesr Quarter of Section 25, Township 17 North, Range 5 East was used to perform this survey along with the found monuments at the corners of Lot 2 per the subject plat. Capped rebars were recovered at all corners of the subject property. These monuments were with 0.3 feet of the computed position. All property corners were found at grade unless stated otherwise.

1. 5/8" capped rebar stamped "Firm 0126" found
2. 5/8" capped rebar stamped "Firm 0126" found
3. 5/8" capped rebar stamped "Firm 0126" found
4. 5/8" capped rebar stamped "Firm 0126" found
5. 5/8" capped rebar stamped "Firm 0126" found

Discrepancies in record descriptions and plats:

The perimeter of the surveyed tract was reestablished based upon the following items: record distance and angular relations as described within the record descriptions for the surveyed tract, recorded as Instrument #2023-66467 in the Office of the Recorder of Hancock County, Indiana and monuments found or set during the aforesaid surveys were retraced and located in relation to current record descriptions and existing plats to define the interior corners of the surveyed tract. The surveyed legal description and drawing describe property that is fully contained within the commitment legal description. All the boundaries of the parcel close without any gaps or gores.

Discrepancies in Lines of Occupation:

Unless otherwise noted or depicted herein or on the survey drawing, there is no visible evidence of occupation. Occupation was also reviewed for agreement with the established boundary lines. There are no visible lines of occupation along the North, South, East or West lines of the overall surveyed parcel. Any depiction of intrusion, trespass, invasion into the possessions or rights of another is not a matter of survey. An attorney should be consulted in all matters with respect to rights of possession.

Item 4 - Gross land area is 0.99 acres+/-.

Surveyors Report:

In accordance with Title 865, Article 1, Chapter 12 of the Indiana Administrative Code ("Rule 12"), the following observations, opinions, and comments are declared regarding the various uncertainties in the locations of lines and corners found or established this survey as a result of the uncertainties in reference monumentation; in record description and plats; in lines of occupation; and as introduced by random errors in measurements ("Relative Positional Accuracy"). There may be unwritten rights associated with these uncertainties. The client should assume there is an amount of uncertainty along any title line equal in magnitude to the discrepancy in the location of the lines of possession from the surveyed lines.

The Relative Positional Precision (accuracy per IAC 865) (due to random errors in measurement) of the corners of the subject tract established this survey is within the specification for a Urban Survey (0.07 feet + 50 parts per million) as defined in ALTA/NSPS requirements and referenced in IAC 865.

Finding of Facts:

Without additional proof, the fact that surveys accept a monument does not make it correct. The monument must have been initially correct, common report and reputation evidence does not overcome contrary proof, therefore, the location of any of the above discussed monuments may yet be contradicted and overcome by undiscovered evidence. As a result, any property boundary, whose location is dependent on these corner monuments, is subject to undiscovered evidence, which might result in a different location for the corners. Because a dimensional value to the uncertainty of these corners is subjective, and for the reasons cited above, the uncertainty of these corners is unknown.

The Relative Positional Accuracy of the corners of the subject tract established for this survey is within the specifications for an Urban survey (+/- 0.07 foot plus 50 parts per million) as defined in 865 IAC 1-12-8, effective May 4, 2006. ("Relative Positional Accuracy" means the value expressed in feet or meters that represents the uncertainty due to random errors in measurements in the location of any point on a survey relative to any other point on the same survey at the 95 percent confidence level).

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

Due to Variances in reference monuments: 1.0 feet +/-.

Due to Discrepancies in the record descriptions: none

Due to Inconsistencies in lines of occupation: See above concerning physical occupation.

General Notes:

(1) In accordance with Title 865, Article 1, Rule 12 of the Indiana Administrative Code, the following observations and opinions are submitted regarding the various uncertainties in the locations of the lines and corners established this survey as a result of uncertainties in reference monuments set or found; in record descriptions and plats; in lines of occupation; and as introduced by random errors in measurement. *There may be unwritten rights associated with these uncertainties.* The client should assume there is an amount of uncertainty along any line equal in magnitude to the discrepancy in the location of the lines of possession from the surveyed lines.

(2) Any depiction of possible intrusion, trespass, and/or invasion into the possessions or rights of another is not a matter of survey. An attorney and/or title company should be consulted in all matters with respect to rights of possession and matters of title.

(3) As used in this survey, certify means to state or declare a professional opinion of conditions regarding those facts or findings which are the subject of the certification and does not constitute a warranty or guarantee, either expressed or implied. The surveyor can only certify to those items that are visible and/or things that can be measured or counted as stated by Indiana Administrative Code(s).

(4) Any underground utilities if depicted on the attached plat of survey have been shown per above ground field observations, atlas maps as may be available from municipalities or utility companies (Indiana Underground Plant Protection Agency) ticket, prior surveys and existing drawings only. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. No warranty, either expressed or implied, is made to the accuracy and/or completeness of information presented on underground utilities, or as to its fitness for any particular purpose or use. In no event will Roger Ward Engineering, Inc., its employees, agents, and/or assigns be liable for any damages arising out of the furnishing and/or use of such information. The path of the utility lines on said plat of survey should be considered approximate until they are either relocated, by calling the Indiana Underground Plant Protection Agency at 1-800-382-5544 or until they are excavated to verify the location and path of the utility lines. The surveyor has not physically located the underground utilities. In providing this survey no attempt has been made to obtain or show data concerning the existence, size, depth, condition, capacity or location of any utility existing on the site, whether private, municipal or public owned except as shown otherwise.

(5) Ownership information indicated hereon is as identified in County records. Information from County records was obtained in July, 2023. Title work was provided from Chicago Title Insurance Company (Commitment No. 2023-66467, dated 05/03/2023) at the time of survey. Some items disclosed in Schedule B II thereof may have been depicted on the survey and are identified by their recording data. Should any additional items need to be depicted on the survey the surveyor shall be contacted and be provided with the appropriate document(s). An attorney and/or title company should be consulted with respect to any encumbrance shown on this survey.

(6) No warranty, either expressed or implied, is made as to the accuracy and/or completeness of information provided by governmental authorities and/or third parties, or as to its fitness for any particular purpose or use, including but not limited to information presented on zoning, setback requirements, flood hazard zones, and wetlands areas. In no event will Roger Ward Engineering, Inc., its employees, agents, and/or assigns be liable for any damages arising out of the furnishing and/or use of such information.

Flood Insurance Information:

The described real estate lies within a ZONE X Unshaded Floodplain Area as plotted by scale on the Flood Emergency Management Agency, National Flood Insurance Program, FIRM Flood Insurance Rate Map Community-Panel Number 18059C0018 D, dated December 4, 2007.

Attention is called to the fact that there are substantial uncertainties associated with said map and with information taken there from. Flood Plain information is provided solely based upon a review of the Flood Insurance Rate Maps, and shall not be construed as a confirmation or denial of flooding potential.

Zone "X" - Minimal risk areas outside the 1-percent and .2-percent-annual-chance floodplains. No BFEs or base flood depths are shown within these zones.

Zone "X" (Shaded) - Area of moderate flood hazard, usually the area between the limits of the 100- year and 500-year floods.

Zone "A" - Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Because detailed analyses are not performed for such areas; no depths or base flood elevations are shown within these zones.

Zone "AE" - The base floodplain where base flood elevations are provided.

Notes regarding Schedule B Section 2 of Title Commitment Number 2023-66467 issued by Chicago Title Insurance Company, Commitment Date of 05/03/2023

11. Any and all Easements and or Building lines as shown on or referred to in the recorded plat of subdivision set out in Schedule A and shown recorded October 5, 2022 as Instrument No. 2022-13320 in Plat Cabinet D, Slide 217. (As shown hereon)

12. Declaration of Easements, Covenants and Restrictions dated January 23, 2007 and recorded February 2, 2007 as Instrument No. 070001436 with Amendments to the Declaration recorded January 11, 2022 as Instrument No. 202200443 and recorded April 12, 2022 as Instrument No. 202204879 , in the Office of the Recorder of Hancock County, Indiana. (Not shown, no description)

13. Sewer Development Agreement by and between Meridian Design, LLC and the Town of McCordsville, Indiana, dated September 13, 2005 and recorded October 19, 2005 as Instrument No. 050014575 , in the Office of the Recorder of Hancock County, Indiana. (Not shown, blanket in nature)

14. Ordinance to the Town of McCordsville, Indiana, recorded June 1, 2001 as Instrument No. 01-8412 , in the Office of the Recorder of Hancock County, Indiana. (Not shown, blanket in nature)

15. Electric Line Easement in favor of Indianapolis Power & Light Company, an Indiana corporation d/b/a AES Indiana, of Indianapolis, Indiana, dated December 2, 2022 and recorded December 6, 2022 as Instrument No. 202215698 and recorded March 3, 2023 as Instrument No. 202301925 , in the Office of the Recorder of Hancock County, Indiana. (Not shown, blanket in nature)

Reference Information:

Chicago Title Commitment No. 2023-66467, dated May 3, 2023

Subject and Adjoiner Deeds

Tax Maps, & Easement Records

Certificate of Survey

To Eden Court Capital LLC; and Chicago Title Insurance Company:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 7(a), 8, & 13 of Table A thereof. The fieldwork was completed on July 5, 2023.

Date of Plat or Map: July 19, 2023

David B. Quinn - Indiana Registered

Land Surveyor No. 80040352

NOTES:

In providing this survey no attempt has been made to obtain or show data concerning the existence, size, depth, condition, capacity or location of any utility existing on the site, whether private, municipal or public owned except as shown otherwise.

Subsurface and environmental conditions were not surveyed, examined, or considered as part of this survey. No evidence or statement is made concerning the existence of underground or overhead conditions, containers or facilities that may affect the use or development of this property.

As used herein, the word "certify" shall mean an expression of the Consultant's professional opinion to the best of its information, knowledge and belief, and does not constitute a warranty or guarantee by the Consultant.

This instrument was prepared by David B. Quinn, Roger Ward Engineering, 6555 Carrollton Avenue, Suite A, Indianapolis, IN 46220.

I affirm, under the penalties of perjury, that I have taken reasonable care to redact each Social Security number in the document, unless required by law. David B. Quinn

SURVEYOR'S NOTE

The plainmetric and topographic data was gathered using standard radial surveying techniques with an electronic instrument with a data collector. Elevations on hard surfaces or structures are accurate to within 0.05 feet; elevations on natural surfaces are accurate to within 0.1 feet on the date on which the elevations were obtained; however, changes in elevations can occur due to soils swell and subsidence, freeze thaw cycles, and wind and water erosion. The magnitude of these changes depends upon soils types, seasonal changes, and the frequency and intensity of wind, rain, and snow events. It is recommended that if the topographic data is to be used for planning or design purposes that a check of elevations be performed prior to any construction activity. Contours are plotted based upon interpolation of the spot elevations shown hereon and are generally accurate within one-half of the contour interval depicted.

Indiana 811 — Know what's below. 811 before you dig.

ROGER WARD ENGINEERING INCORPORATED
CIVIL ENGINEERS - LAND SURVEYORS - DEVELOPMENT CONSULTANTS
6555 CARROLLTON AVENUE
INDIANAPOLIS, INDIANA 46220
(317) 251-1738 (FAX) 251-1923
www.rw-engineering.com

Prepared For:
EDEN COURT CAPITAL LLC & CHICAGO TITLE

DRAWN BY: CAP
DATE: 07/19/2023

REVISIONS:

ALTA/NSPS LAND TITLE SURVEY
7419 NORTH 600 WEST
MCCORDSVILLE, INDIANA

DAVID B. QUINN REGISTERED No. LS80040352 STATE OF INDIANA LAND SURVEYOR

BY: David B. Quinn

DATE: 07-19-2023

SHEET 1 OF 1

JOB#: EDE.001

FRITZ ENGINEERING SERVICES
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PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

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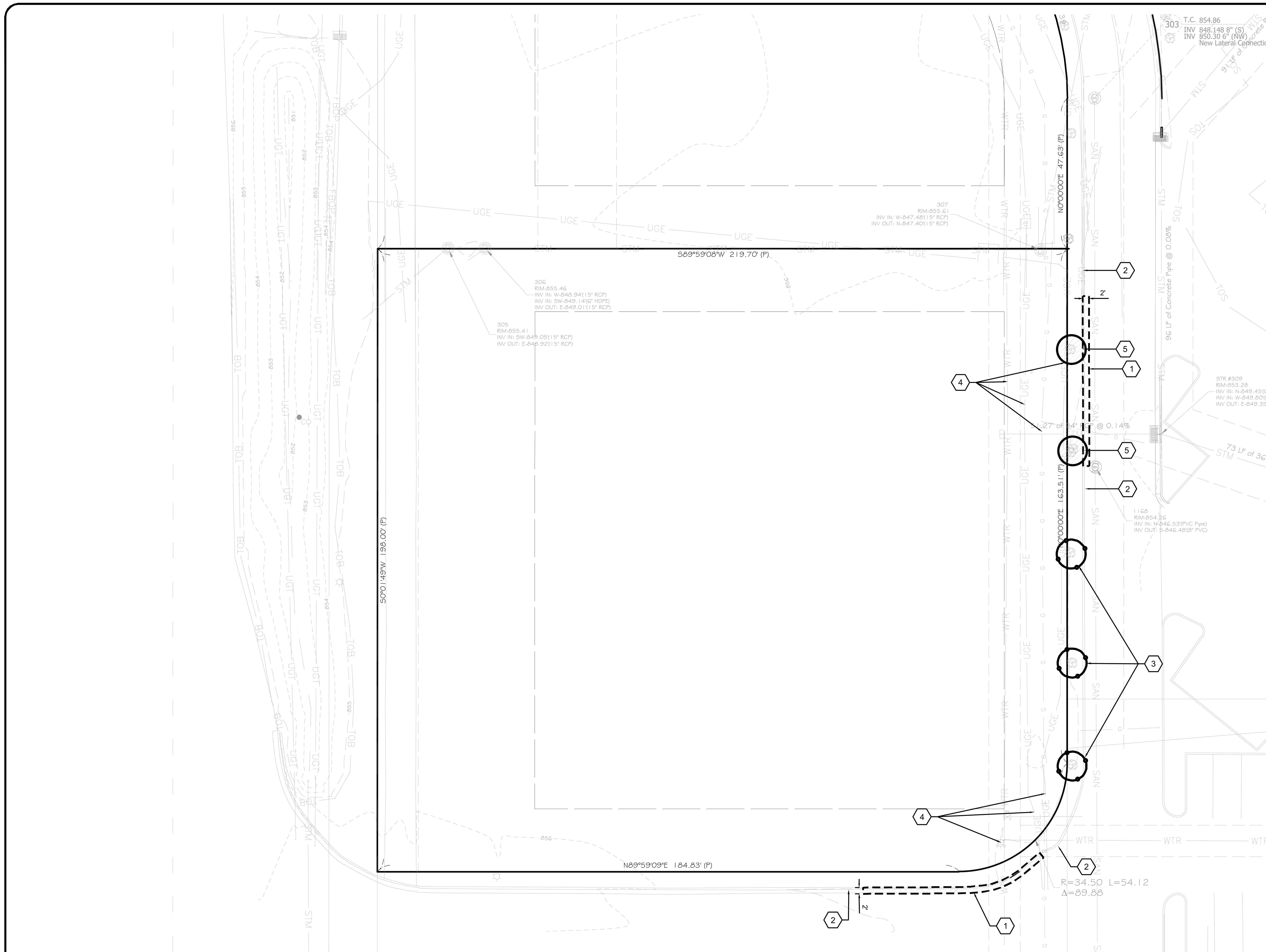
PROJECT:
QDOBA MEXICAN EATS
MCCORDSVILLE

PROJECT LOCATION:
7419 W. 600 N.
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW 1/4, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

PLAN DATE: 09/22/23
DESIGN: AF | CHECK: AF | DRAWN: KG
PROJECT NO. 2307011
SHEET NAME: SURVEY (BY OTHERS)
SHEET NO. C102



KEY NOTES: (XX)

1 SAWCUT EXISTING CONCRETE/CURB/PAVEMENT AND REMOVE

2 PAVEMENT / CURB / WALK TO REMAIN.

3 PROTECT EXISTING TREE / LANDSCAPING DURING CONSTRUCTION. SEE TREE PROTECTION DETAIL.

4 PROTECT EXISTING UTILITIES DURING CONSTRUCTION

5 REMOVE EXISTING TREE

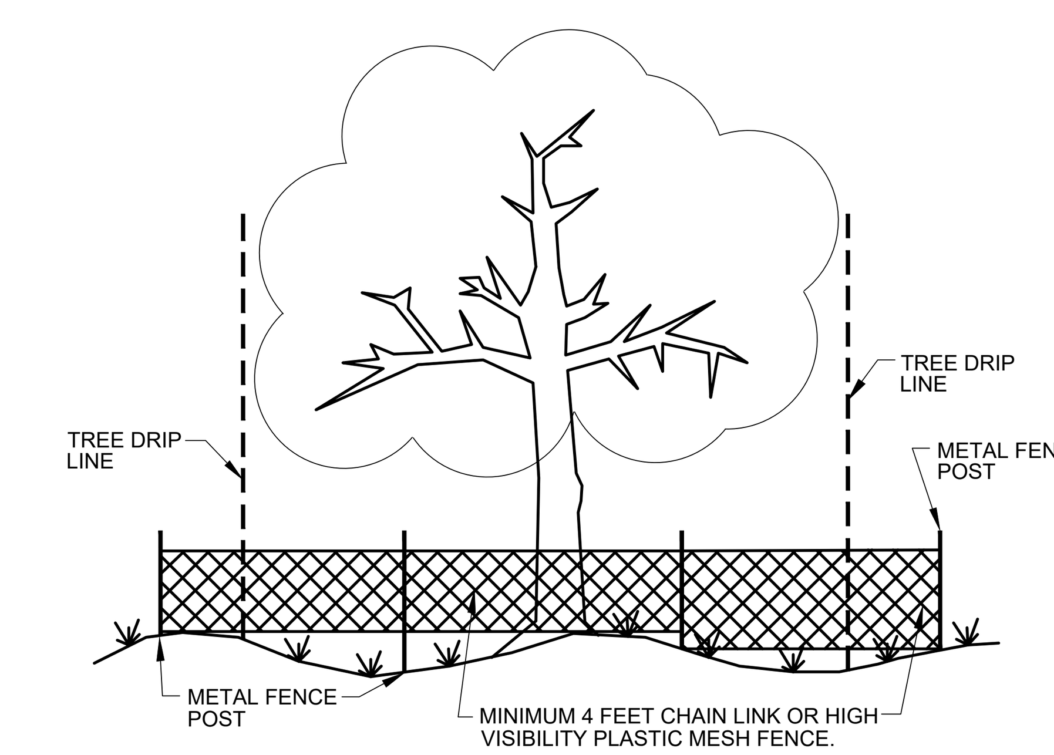
NOTES

1. FOR PRE-CONSTRUCTION / DEMOLITION EROSION CONTROL MEASURES, SEE EROSION CONTROL SHEET C501 AND C502 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. FOR ANY ROADWAY WORK, COORDINATE WITH THE LOCAL MUNICIPALITY STREET DEPARTMENT / DEPARTMENT OF PUBLIC WORKS PRIOR TO CONSTRUCTION. MAINTENANCE OF TRAFFIC (M.O.T.) REQUIRED FOR ALL ROADWAY / RIGHT-OF-WAY WORK. MAINTENANCE OF TRAFFIC SHALL BE ACCORDANCE WITH THE INDIANA MUTCD MANUAL, INDOT DESIGN MANUAL, INDOT SPECIFICATIONS AND STANDARD DRAWINGS, AND ANY ADDITIONAL REQUIREMENTS FROM THE LOCAL MUNICIPALITY OF THE CORRESPONDING ROADWAY.
3. CONTRACTOR TO COORDINATE WITH ALL UTILITY COMPANIES PRIOR CONSTRUCTION. ALL DEMOLITION OR REMOVAL OF EXISTING UTILITIES, RELOCATION OF UTILIZES, OR PROPOSED CONNECTIONS TO EXISTING UTILITIES SHALL BE COORDINATED WITH AND APPROVED BY THE CORRESPONDING UTILITY COMPANY PRIOR TO ANY WORK.
4. ALL REMOVAL, HANDLING, STORAGE, AND DEPOSABLE OF ALL REQUIRED ITEMS FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS AND REQUIREMENTS.

N

0 20' 40'

SCALE: 1" = 20'



GUIDELINES AND NOTES:

1. TREE PROTECTION FENCES SHALL BE 4 FEET HIGH MINIMUM CHAIN LINK FENCE OR HIGH VISIBILITY PLASTIC MESH CONSTRUCTION FENCING.
2. ERECT FENCE BARRIERS AROUND ALL "SAVED" TREES NEAR THE CONSTRUCTION ACTIVITY.
3. FENCE BARRIERS SHALL BE PLACED OUTSIDE THE DRIP LINE AS FAR FROM THE TREE AS CONSTRUCTION PERMITS.
4. FENCE POSTS SHALL BE PLACED NO FURTHER THAN 15 FEET APART.
5. NO STAGING OF MATERIALS OR GRADING SHALL OCCUR WITHIN THE FENCED TREE PROTECTION AREA.

TREE PRESERVATION / PROTECTION DETAIL

NOT TO SCALE

EXISTING UTILITY & SEWER DISCLAIMER:

UTILITY LOCATIONS, CROSSINGS, DEPTHS, AND INFORMATION ARE APPROXIMATELY SHOWN. THIS INCLUDES ALL SEWER (SANITARY, STORM, AND COMBINE) LOCATIONS AND MEASURE DOWN INFORMATION. LOCATIONS ARE SHOWN PER INDIANA 811 MARKINGS AS LOCATED BY THE SURVEYOR (BY OTHERS), G.I.S. DATA (IF AVAILABLE), AND UTILITY COMPANY CORRESPONDENCE (IF ANY). ALL UTILITY LOCATIONS, SIZES, MATERIALS, INVERT, DEPTHS, LENGTHS, ETC. ARE CONSIDERED APPROXIMATE AND MAY BE SKEPTICAL IN NATURE.

THE UTILITIES INDICATED ON THESE PLANS MAY NOT BE A COMPETE INVENTORY OF ALL EXISTING UTILITIES CURRENTLY ON OR NEAR THE SITE. THE PATH, SIZE AND LOCATION OF THESE UTILITIES MAY BE APPROXIMATE UNTIL THEY ARE EITHER RELOCATED, BY CALLING INDIANA 811 AND OTHER UTILITY LOCATE COMPANIES, OR UNTIL THEY ARE EXCAVATED TO VERIFY THE LOCATION, DEPTH, AND PATH OF THE UTILITY LINES. LOCATIONS ARE SHOWN PER INDIANA 811 MARKINGS AS LOCATED BY THE SURVEYOR (BY OTHERS), G.I.S. DATA (IF AVAILABLE), AND UTILITY COMPANY CORRESPONDENCE (IF ANY).

NO ASSUMPTIONS WERE MADE CONNECTING UTILITIES OBSERVED AND LOCATED TO OTHER APPURTENANCES OR HOW THEY ENTER OR CONNECT INTO ADJOINING HOUSES OR BUILDINGS UNLESS IDENTIFIED BY THE SURVEYOR PER ONSITE UTILITY MARKINGS OR AS INDICATED BASED ON G.I.S. / UTILITY PLAN DATA. FRITZ ENGINEERING SERVICES, LLC DID NOT ADD, INTERPOLATE, ASSUME, OR DEPICT ANY UTILITY LINE DIRECTIONS OR CONNECTIONS OUTSIDE WHAT WAS PROVIDED. NO ATTEMPT WAS MADE AS PART OF THIS PROJECT TO OBTAIN OR SHOW DATA CONCERNING EXISTENCE, SIZE, DEPTH, CONDITION, CAPACITY, OR LOCATION OF ANY UTILITY, PUBLIC SERVICE FACILITY, OR UTILITY SERVICE LINES TO THE PROPERTY. NO EXCAVATIONS WERE MADE DURING THE COURSE OF THIS PROJECT TO LOCATE UNDERGROUND UTILITIES AND/OR SEWER STRUCTURES.

NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE TO THE ACCURACY AND/OR COMPLETENESS OF INFORMATION PRESENTED ON UNDERGROUND UTILITIES AND SEWERS, OR AS TO ITS FITNESS FOR ANY PARTICULAR PURPOSE OR USE. IN NO EVENT WILL FRITZ ENGINEERING SERVICES, LLC, ITS EMPLOYEES, AGENTS, AND/OR ASSIGNS BE LIABLE FOR ANY DAMAGES ARISING OUT OF THE FURNISHING AND/OR USE OF SUCH INFORMATION.

CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES WITHIN AREA OF WORK PRIOR TO CONSTRUCTION. ENGINEER SHALL BE NOTIFIED OF ANY POTENTIAL CONFLICTS FOUND.

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www.Fritz-Eng.com

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REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

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2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
QDOBA MEXICAN EATS
MCCORDSVILLE

PROJECT LOCATION:
7419 W. 600 N.
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW $\frac{1}{4}$, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

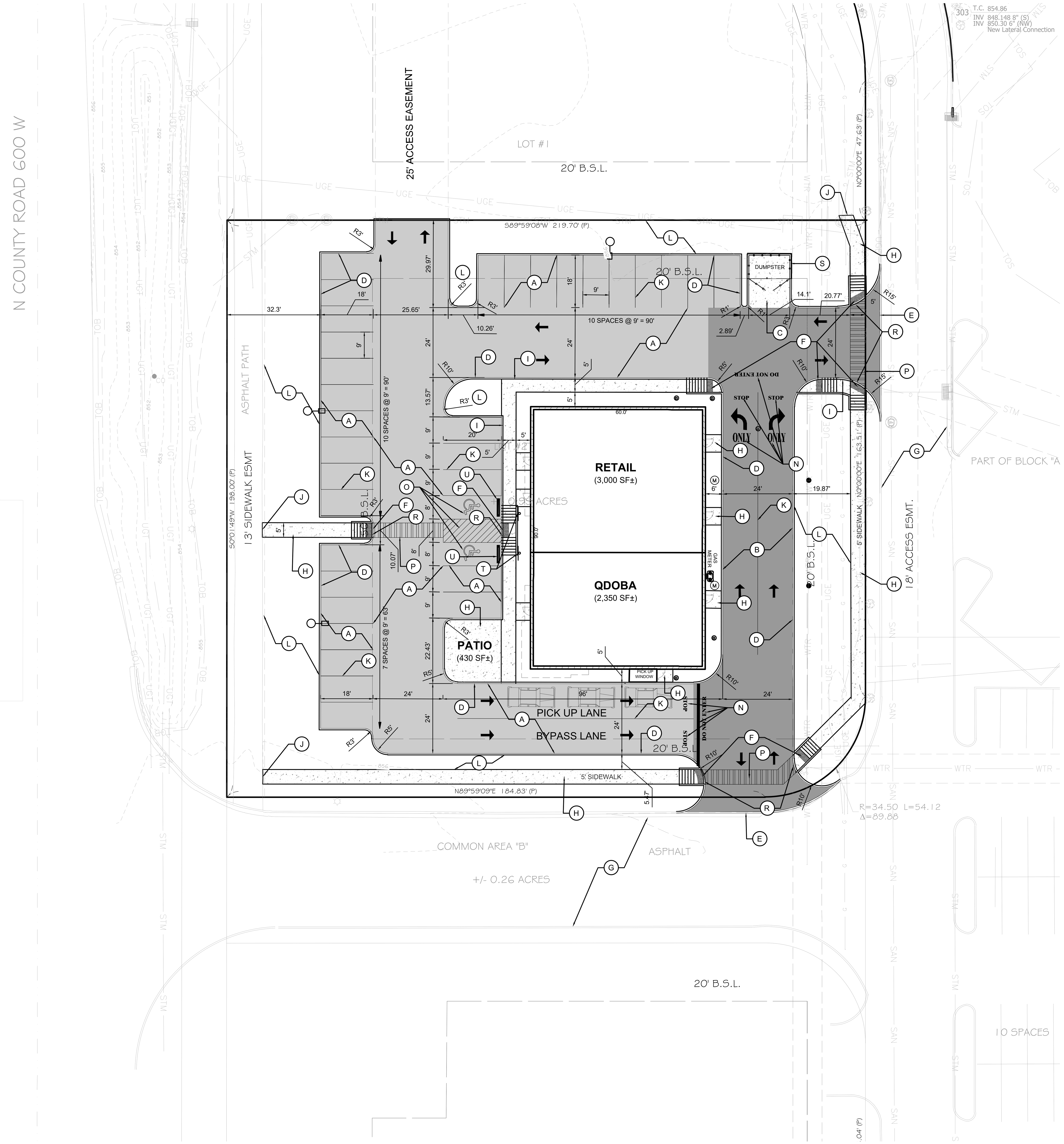
PLAN DATE: 09/22/23

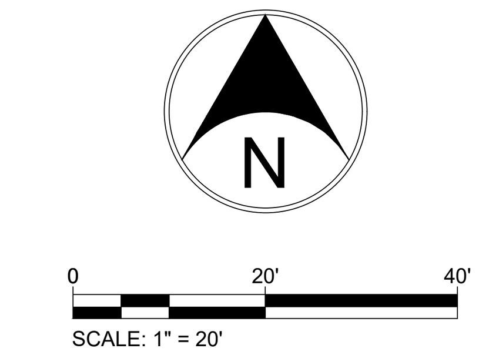
DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2307011

SHEET NAME
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
C103





KEY NOTES: (XX)

A	LIGHT DUTY ASPHALT PAVEMENT	
B	HEAVY DUTY ASPHALT PAVEMENT	
C	CONCRETE PAVEMENT	
D	CONCRETE 6 INCH "STRAIGHT" CURB	
E	DEPRESSED CURB	
F	ADA SIDEWALK RAMP WITH DETECTABLE WARNINGS	
G	EXISTING CURB / PAVEMENT / SIDEWALK TO REMAIN	
H	CONCRETE SIDEWALK	
I	CONCRETE INTEGRAL / MONOLITHIC CURB AND WALK	
J	MATCH INTO EXISTING	
K	4 INCH SOLID WHITE PAVEMENT STRIPING (TYP.)	
L	LANDSCAPE AREA	
N	PAVEMENT MARKING AS SHOWN	
O	ADA BLUE PAVEMENT STRIPING AND MARKINGS	
P	WHITE PAVEMENT CROSSWALK TRANSVERSE MARKING	
R	FLUSH CURB FOR RAMP TRANSITION	
S	DUMPSTER ENCLOSURE (SEE ARCHITECTURAL PLANS)	
T	HANDICAP PARKING SIGN	
U	PRECAST CONCRETE PARKING BARRIER	

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705 E. MAIN ST.
WESTFIELD, IN 46074

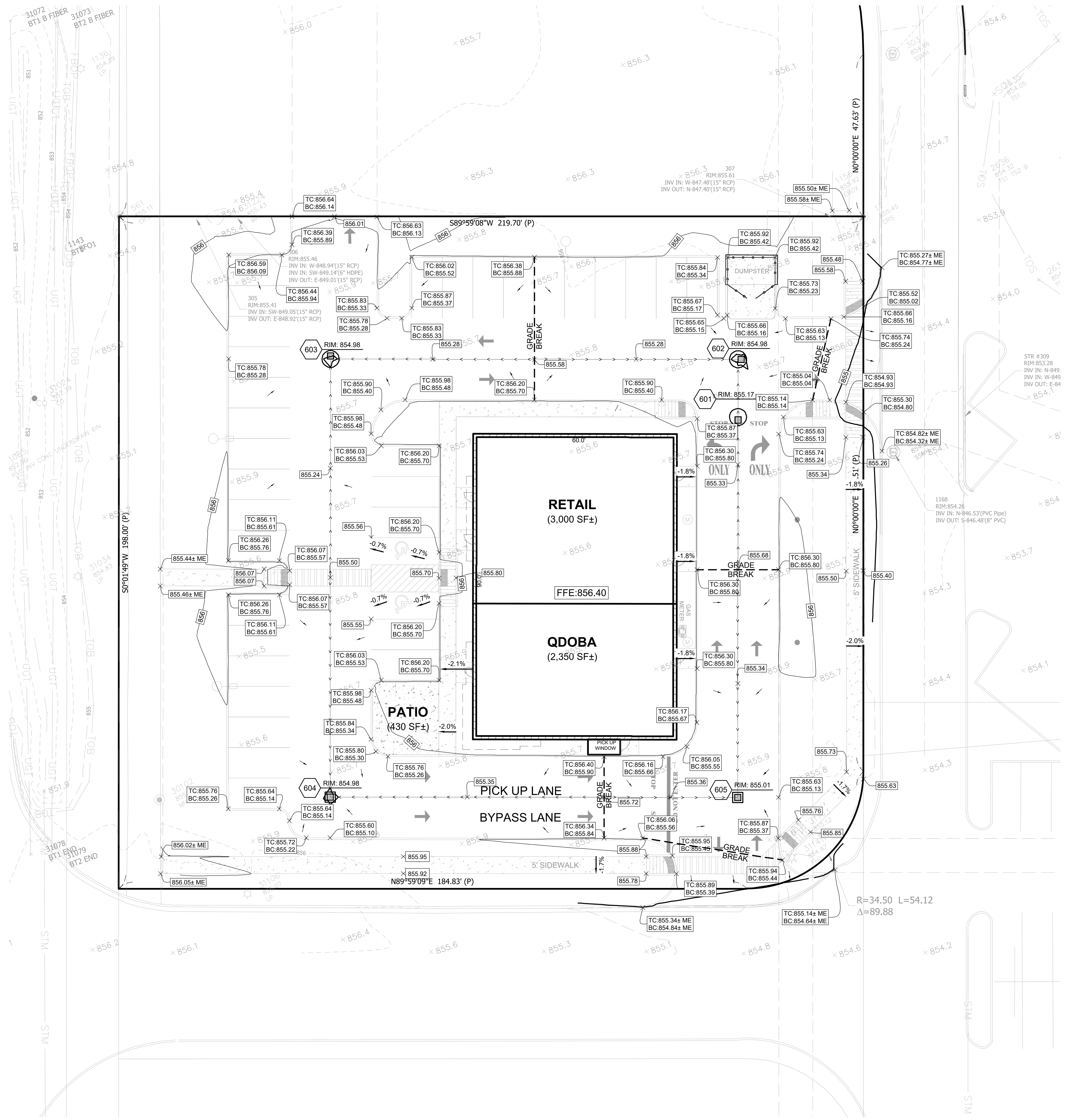
PLAN DATE: 09/22/23

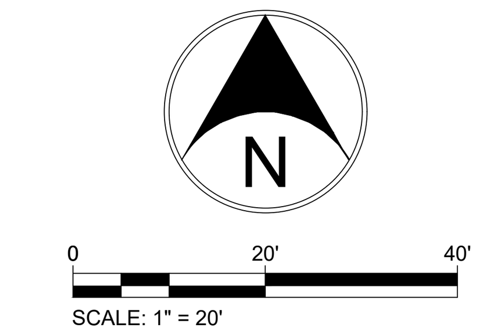
DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2307011

SHEET NAME
SITE PLAN

SHEET NO.
C201





GRADING LEGEND:

- STORM MANHOLE
- STORM COMBINATION/CURB INLET
- STORM AREA INLET
- STORM BEEHIVE/YARD INLET
- STORM FLARED END SECTION
- STORM MECHANICAL SEPARATOR (REF. PLAN FOR SIZE/TYPE)
- ### STORM STRUCTURE NUMBER
- FLOW LINE, SWALE / GRASS
- FLOW LINE, PAVEMENT
- X.X% SLOPE / RAMP SLOPE
- SURFACE DRAINAGE FLOW ARROW DIRECTION
- 785 EXISTING CONTOUR AND LABEL
- 785 PROPOSED CONTOUR AND LABEL
- GRADE BREAK
- F:XXX.XX FLOW LINE / SWALE SPOT ELEVATION
- XXX.XX SPOT ELEVATION
- XXX.XX H.P. SPOT ELEVATION, HIGH POINT
- XXX.XX L.P. SPOT ELEVATION, LOW POINT
- TC:XXX.XX BC:XXX.XX TC- TOP OF CURB ELEVATION BC - BOTTOM OF CURB/GUTTER ELEVATION
- TW:XXX.XX BW:XXX.XX TW - TOP OF WALL ELEVATION BW - BOTTOM OF WALL ELEVATION
- ME MATCH EXISTING ELEVATION
- CONSTRUCTION LIMIT LINE

NOTES:

1. REF. C101 FOR ABBREVIATIONS AND ADDITIONAL LEGEND INFORMATION.

SURVEY VERTICAL DATUM INFORMATION:

THE SURVEY AND THIS PROJECT ELEVATIONS ARE ESTABLISHED BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). THE VERTICAL DATUM WAS ESTABLISHED BY THE SURVEYOR PER GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS UTILIZING INCORS NETWORK AND GEOID18. THEREFORE, THE ELEVATIONS, CONTOURS AND GRADES SHOWN ON THIS SHEET AND PLAN SET ARE IN NAVD88.

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HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW $\frac{1}{4}$, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

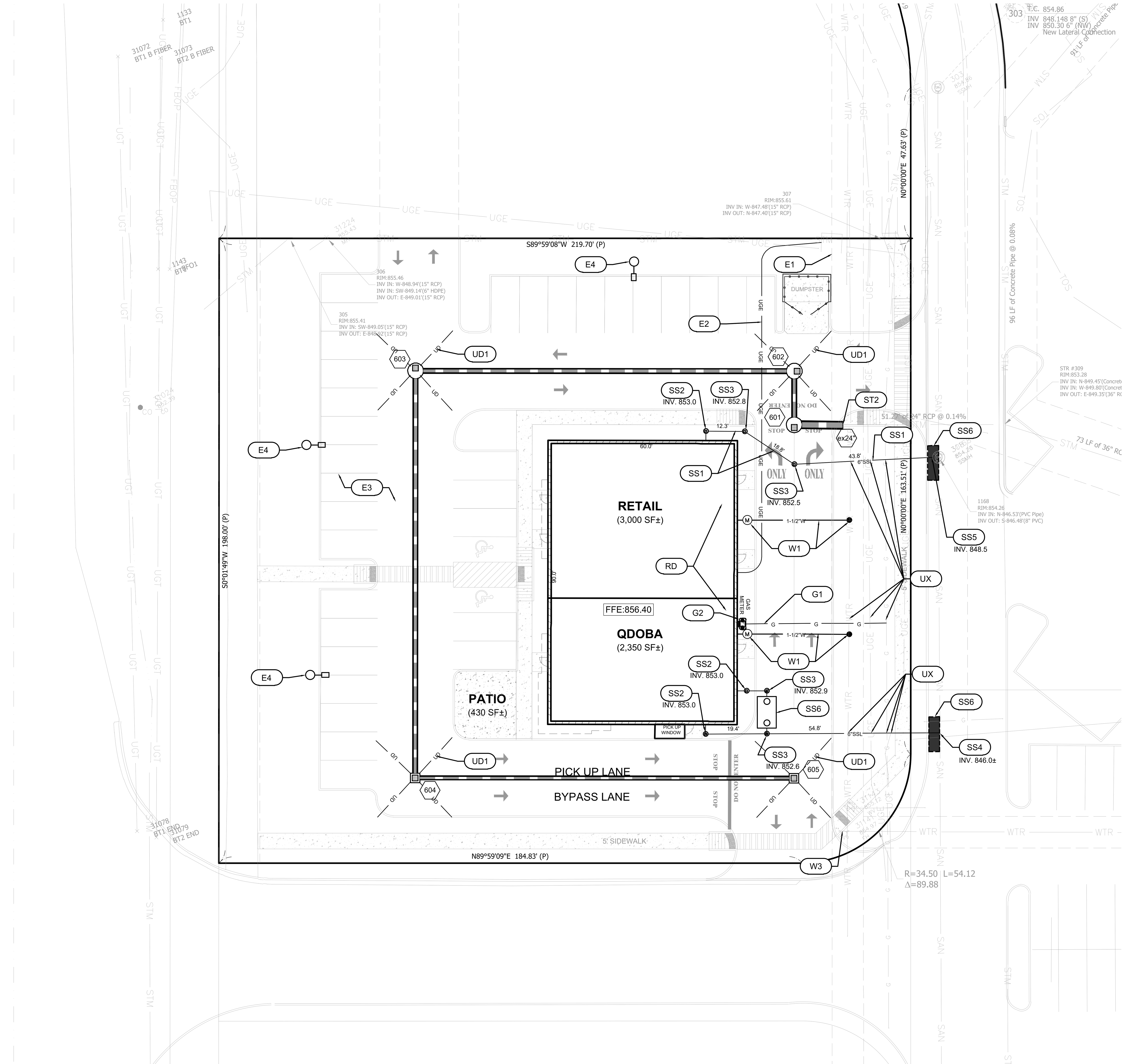
PLAN DATE: 09/22/23

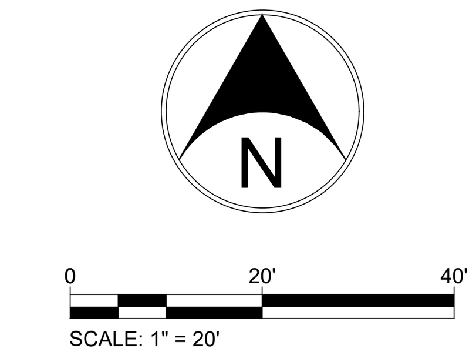
DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2307011

SHEET NAME
GRADING PLAN

SHEET NO.
C301





KEY NOTES:

E1 ELECTRIC - EXISTING TRANSFORMER, COORDINATE NEW SERVICE LINE WITH M.E.P. PLANS AND POWER UTILITY COMPANY.

E2 ELECTRIC - SECONDARY CONDUIT, COORDINATE WITH M.E.P. PLANS FOR SIZE AND CABLE REQUIRED. COORD. WITH POWER UTILITY COMPANY AS REQUIRED.

E3 ELECTRIC - COORDINATE POWER DISTRIBUTION ONSITE WITH M.E.P. / SITE ELECTRICAL PLAN.

E4 ELECTRIC - PROPOSED SITE LIGHT POLE. REF. SITE LIGHTING PLAN FOR EXACT LOCATION AND FIXTURE TYPE/HEIGHT. BASE SHALL BE A MINIMUM OF 30" FROM ADJACENT FACE OF CURB.

G1 GAS - GAS SERVICE LINE, COORDINATE SIZE & LOCATION WITH M.E.P. PLANS AND GAS COMPANY.

G2 GAS - GAS METER, COORD WITH M.E.P. PLANS & GAS COMPANY. MULTI-TENANT METERS REQ'D.

SS1 SANITARY - 6 INCH DIAMETER SDR 26 PVC LATERAL @ 1.04% MINIMUM. LATERAL INSTALLATION SHALL INCLUDE FULL DEPTH GRANULAR BACKFILL WHERE LOCATED UNDER PAVED AREAS AND SHALL HAVE TRACER WIRE INSTALLED FROM THE BUILDING CLEANOUT TO THE MAIN CONNECTION IN ACCORDANCE WITH MCCORDSVILLE SANITARY STANDARDS.

SS2 SANITARY - BUILDING CLEANOUT PER MCCORDSVILLE SANITARY STANDARDS, SEE PLAN FOR INVERTS. CLEANTOUTS SHALL MATCH SIZE OF LATERAL PIPE UP TO A MAXIMUM 8 INCHES. CLEANOUT SHALL BE LOCATED 36 INCHES FROM BUILDING.

SS3 SANITARY - CLEANOUT PER MCCORDSVILLE SANITARY STANDARDS. SEE PLAN FOR INVERTS. CASTING TYPES AND COLLARS AS REQUIRED PER GRADE TYPE AND PER MCCORDSVILLE SANITARY STANDARDS. CLEANTOUTS SHALL MATCH SIZE OF LATERAL PIPE UP TO A MAXIMUM 8 INCHES.

SS4 SANITARY - CONNECT LATERAL TO SANITARY MAIN WITH SADDLE TAP CONNECTION WITH WYE PER MCCORDSVILLE SANITARY STANDARDS. CONTRACTOR SHALL FIELD VERIFY EXISTING SANITARY MAIN SEWER DEPTH AT PROPOSED LOCATION PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.

SS5 SANITARY - CONNECT LATERAL TO SANITARY MANHOLE PER MCCORDSVILLE SANITARY STANDARDS. PROVIDE INSIDE DROP WHERE APPROPRIATE.

SS6 SANITARY - SAW CUT PAVEMENT AND REMOVAL AS REQUIRED FOR LATERAL CONNECTION. REPLACE PAVEMENT (WITH REQUIRED BACKFILL) TO MATCH EXITING PAVEMENT TYPE / CROSS-SECTION. MAINTENANCE OF TRAFFIC PER INDIANA MUTCD MANUAL.

SS7 SANITARY - EXISTING SANITARY SEWER STRUCTURE / MAIN TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.

SS8 SANITARY - GREASE INTERCEPTOR 1,000 GALLON). SEE DETAILS.

ST1 STORM - PROPOSED STRUCTURE, REFERENCE STORM STRUCTURE TABLE 6XX

ST2 STORM - CONNECT INTO EXISTING STORM PIPE. VERIFY EXISTING PIPE SIZE, INVERT ELEVATION, AND CONDITION CAN ACCOMMODATE PROPOSED STORM PIPE CONNECTION PRIOR TO CONSTRUCTION. REMOVE EXISTING PIPE SECTION FOR NEW CLEAN PIPE CONNECTION AS NECESSARY.

RD ROOF DRAINS - BUILDING DOWNSPOUT LOCATIONS, VERIFY WITH ARCHITECTURE PLAN. NO ROOF DRAIN CONNECTIONS PROPOSED FOR THIS PROJECT. DOWNSPOUTS TO DRAIN ONTO SPLASH PADS AT GRADE AS SPECIFIED BY THE OWNER. SEE ARCHITECTURE OR LANDSCAPE PLANS FOR SPLASH PAD TYPES.

UD1 UNDERDRAIN - 15 LINEAR FEET OF 6 INCH DIAMETER PERFORATED HDPE UNDERDRAIN AT 1.00% MINIMUM SLOPE TOWARDS INLET. UNDERDRAINS TO CONNECT INTO STORM STRUCTURE AT LEAST 6 INCHES ABOVE THE OUTLET PIPE INVERT.

W1 WATER - PROPOSED 1.5 INCH DOMESTIC SERVICE TAP ON EXISTING WATER MAIN. PROVIDE 1.5 INCH SERVICE WITH 1" METER PIT PER MCCORDSVILLE STANDARDS.

W2 WATER - EXISTING WATER MAIN TO REMAIN. FIELD LOCATE EXACT LOCATION PRIOR TO CONSTRUCTION. PROTECT THROUGHOUT CONSTRUCTION.

W3 WATER - EXISTING FIRE HYDRANT TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.

UX UTILITY CROSSING, APPROXIMATE LOCATION SHOWN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES WITHIN AREA OF WORK PRIOR TO CONSTRUCTION. ENGINEER SHALL BE NOTIFIED OF ANY POTENTIAL CONFLICTS FOUND.

UX CONCRETE CRADLE REQUIRED FOR UTILITY CROSSING.

UX PROPOSED UTILITY CROSSING. 18 INCH MINIMUM VERTICAL SEPARATION FROM PIPE EXTERIOR TO PIPE EXTERIOR SHALL BE MAINTAINED. IF MINIMUM VERTICAL SEPARATION CANNOT BE ACHIEVED, CONCRETE SADDLE REQUIRED MEETING THE LOCAL MUNICIPALITY AND CORRESPONDING UTILITY COMPANY STANDARDS.

UX SANITARY SEWERS OR LATERALS AND WATER LINES MUST HAVE 10 FEET HORIZONTAL SEPARATION AND 18 INCH VERTICAL SEPARATION.

NOTES:

1. UTILITY CROSSINGS UNDER EXISTING PAVEMENT SHALL BE DIRECTIONAL BORED OR JACK & BORED. OPEN CUTS SHALL BE AVOIDED IF POSSIBLE.

2. ALL NEW STORM STRUCTURES WITH OPEN GRATES WITHIN PAVED AREAS SHALL HAVE CONCRETE COLLARS. REFERENCE DETAILS.

3. ALL PROPOSED END SECTIONS SHALL HAVE TOE ANCHORS AND ANIMAL GUARDS INSTALLED.

4. CONTRACTOR TO VERIFY ROOF DRAIN / DOWNSPOUT LOCATIONS PER ARCH. / M.E.P. PLANS AND ADJUST ROOFDRAIN CONNECTIONS AND HEADER / COLLECTOR PIPES ACCORDINGLY. ALL ROOF DRAINS TO BE CAPTURED AND DRAIN INTO THE PROPOSED STORM SEWER SYSTEM AND ROUTED THROUGH DETENTION FACILITY.

5. SANITARY LATERALS SHALL MAINTAIN 3 FEET OF COVER.

6. WHERE SANITARY SEWER / LATERAL RUNS UNDER OR WITHIN 5 FEET OF HARDSCAPES (PAVEMENT SURFACES), SEWER PIPING MUST BE BACKFILLED WITH GRANULAR MATERIAL. SEE CORRESPONDING SANITARY COMPANY STANDARDS, SPECIFICATIONS AND DETAILS.

7. TEN (10) GAUGE TRACER WIRE PLACED ON TOP OF SEWER PIPING OR LATERALS FROM THE BUILDING CLEANOUT TO TO THE DOWNSTREAM CONNECTION POINT REQUIRED FOR ENTIRE LENGTH OF SEWER PIPING / LATERALS. SEE DETAILS.

8. SEE SANITARY, STORM AND UTILITY NOTES FOR ADDITIONAL INFORMATION.

9. SEE STORM AND SANITARY SEWER STRUCTURE AND PIPE TABLES FOR SEWER STRUCTURE INFORMATION, INVERTS, RIM / CASTING ELEVATIONS, AND PIPE MATERIALS, SIZES AND LENGTHS.

10. ALL WATERLINES SHALL MAINTAIN A MINIMUM OF 54 INCHES OF COVER.

11. CONTRACTOR TO COORDINATE ALL WATERLINE CONNECTIONS, PIPE TYPE AND DIAMETERS, APPURTENANCES, ETC. WITH M.E.P. / ARCHITECTURAL PLANS, GOVERNING WATER UTILITY COMPANY, AND LOCAL FIRE DEPARTMENT (REGARDING FIRE WATERLINES AND APPURTENANCES).

12. SANITARY SEWERS AND / OR LATERALS, ALL WATERLINES, AND STORM SEWERS SHALL MAINTAIN 10 FEET MINIMUM HORIZONTAL SEPARATION AND 18 INCHES MINIMUM VERTICAL SEPARATION BETWEEN EACH ANOTHER AS MEASURED FROM EXTERIOR PIPE WALLS.

EXISTING CONDITIONS & UTILITY INFO DISCLAIMER:

EXISTING CONDITIONS AND UTILITY INFO IS SHOWN PER NORTHPOINT COMMERCE PARK PHASE-I MASTER PLAN CONSTRUCTION PLANS (BY OTHERS). DURING THE DESIGN OF THIS PROJECT, THE CURRENT SITE CONDITIONS AND ADJACENT COMMERCE PARK DRIVE ROADWAY WERE UNDER CONSTRUCTION. THE EXISTING CONDITIONS, WHICH INCLUDES ALL EXISTING UTILITIES SHOWN OR NOT SHOWN, WAS COMPILED FROM NUMEROUS SOURCES AS DELIVERED TO FRITZ ENGINEERING SERVICES, LLC VIA THE CLIENT / OWNER. THE MAJORITY OF THE EXISTING CONDITIONS AND UTILITY INFORMATION IS PER THE CONSTRUCTION PLANS FOR THE MASTER PLAN FOR NORTHPOINT COMMERCE PARK (PHASE I) AS APPROVED BY THE CITY OF WESTFIELD AND AS CREATED AND SIGNED BY KIMLEY-HORN. A NEW UPDATED SURVEY WAS NOT PERFORMED FOR THIS LOT 4 PROJECT DUE TO THE CHANGING SITE CONDITIONS AT THE TIME OF THIS PROJECT. THE CONTRACTOR WILL NEED TO VERIFY ALL EXISTING CONDITIONS, INCLUDING UTILITY LOCATIONS, TYPES, SIZES, AND DEPTHS / INVERTS PRIOR TO CONSTRUCTION.

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REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

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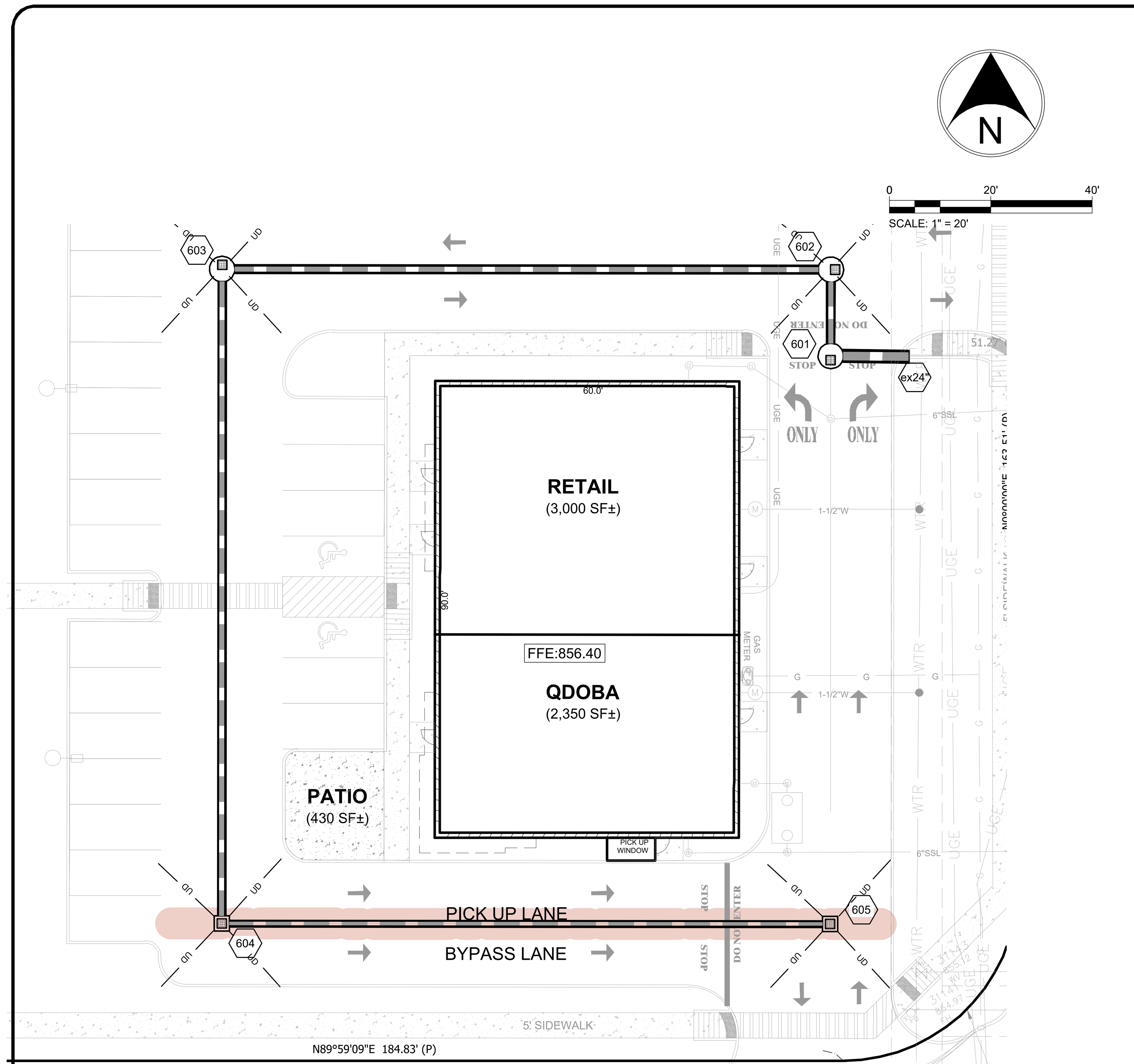
PROJECT:
QDOBA MEXICAN EATS
MCCORDSVILLE

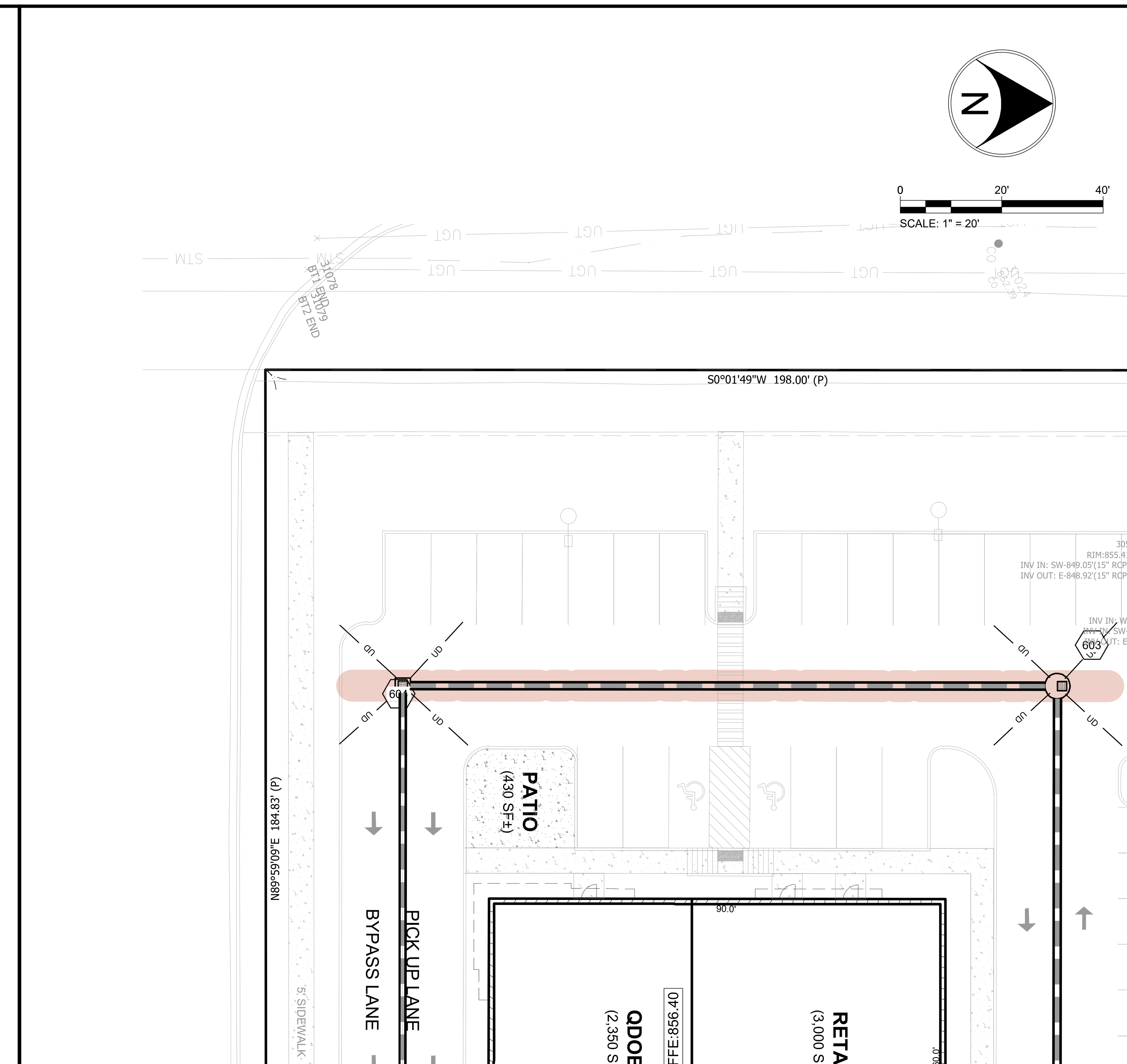
PROJECT LOCATION:
7419 W. 600 N.
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW 1/4, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

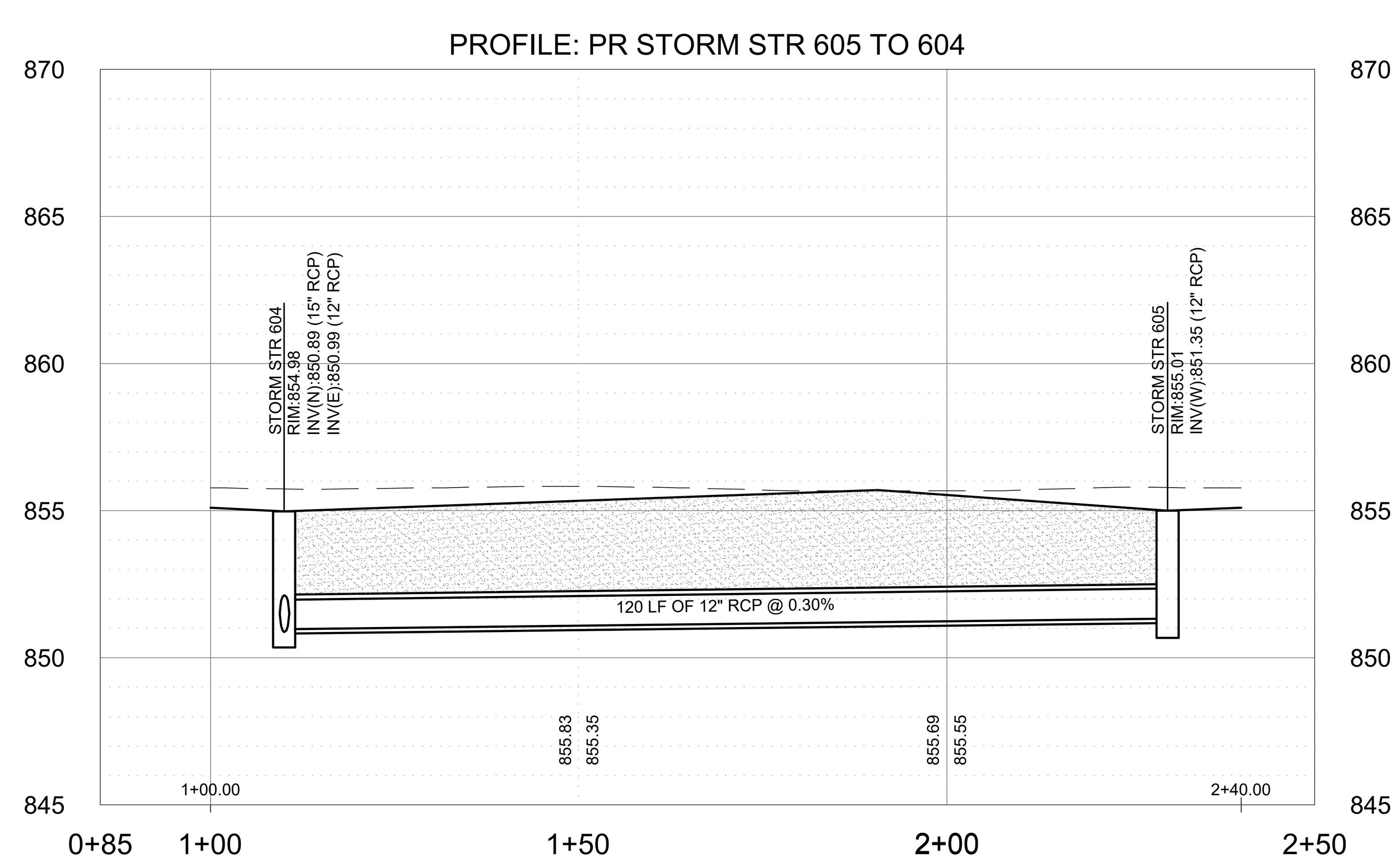
PLAN DATE: 09/22/23		
DESIGN: AF	CHECK: AF	DRAWN: KG
PROJECT NO. 2307011		
SHEET NAME: UTILITY & DRAINAGE PLAN		
SHEET NO. C401		

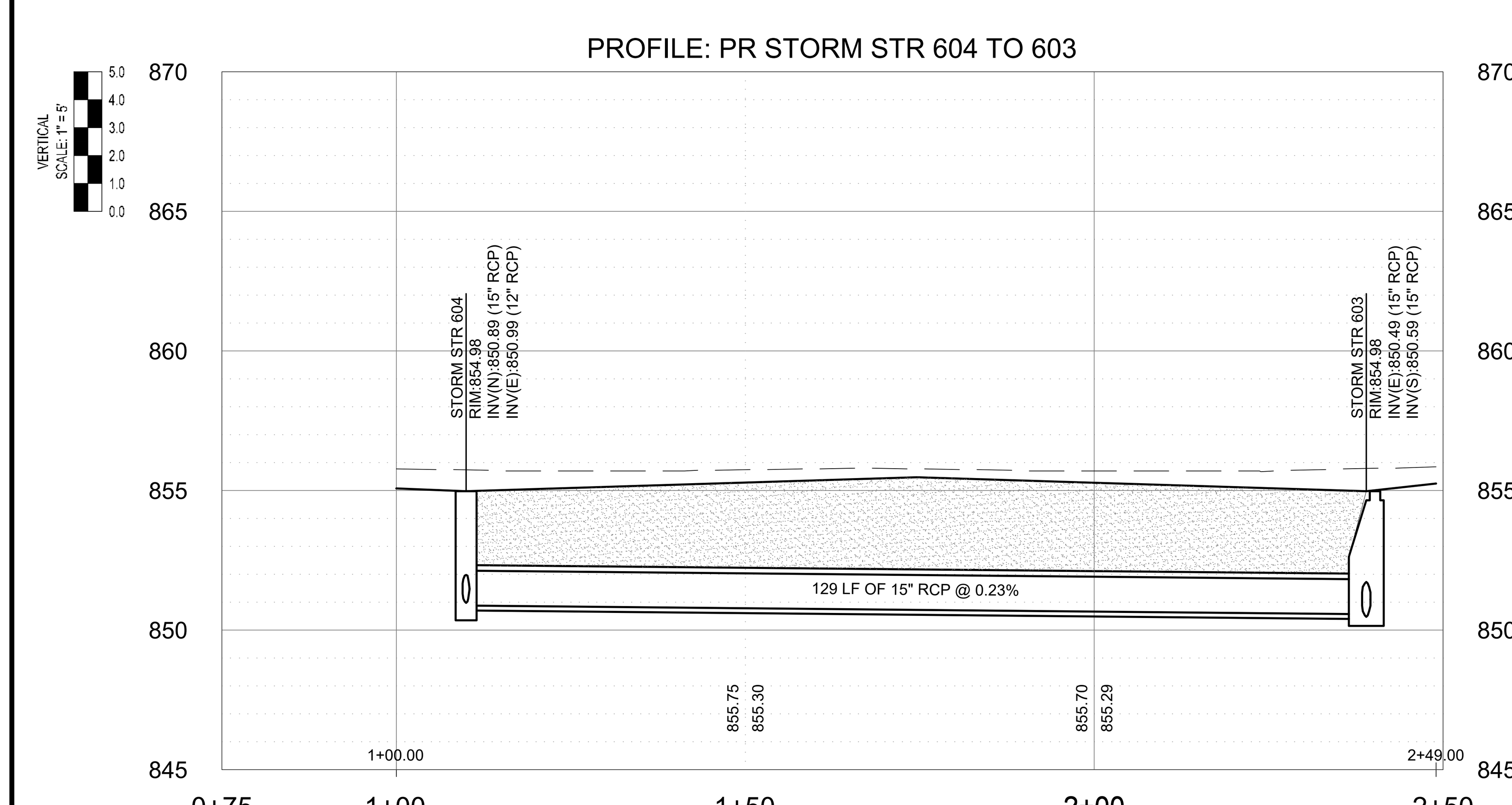




LEGEND:

- FINISHED GRADE
- EXISTING GRADE
- GRANULAR BACKFILL
- STORM STRUCTURE I.D.





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HANCOCK COUNTY

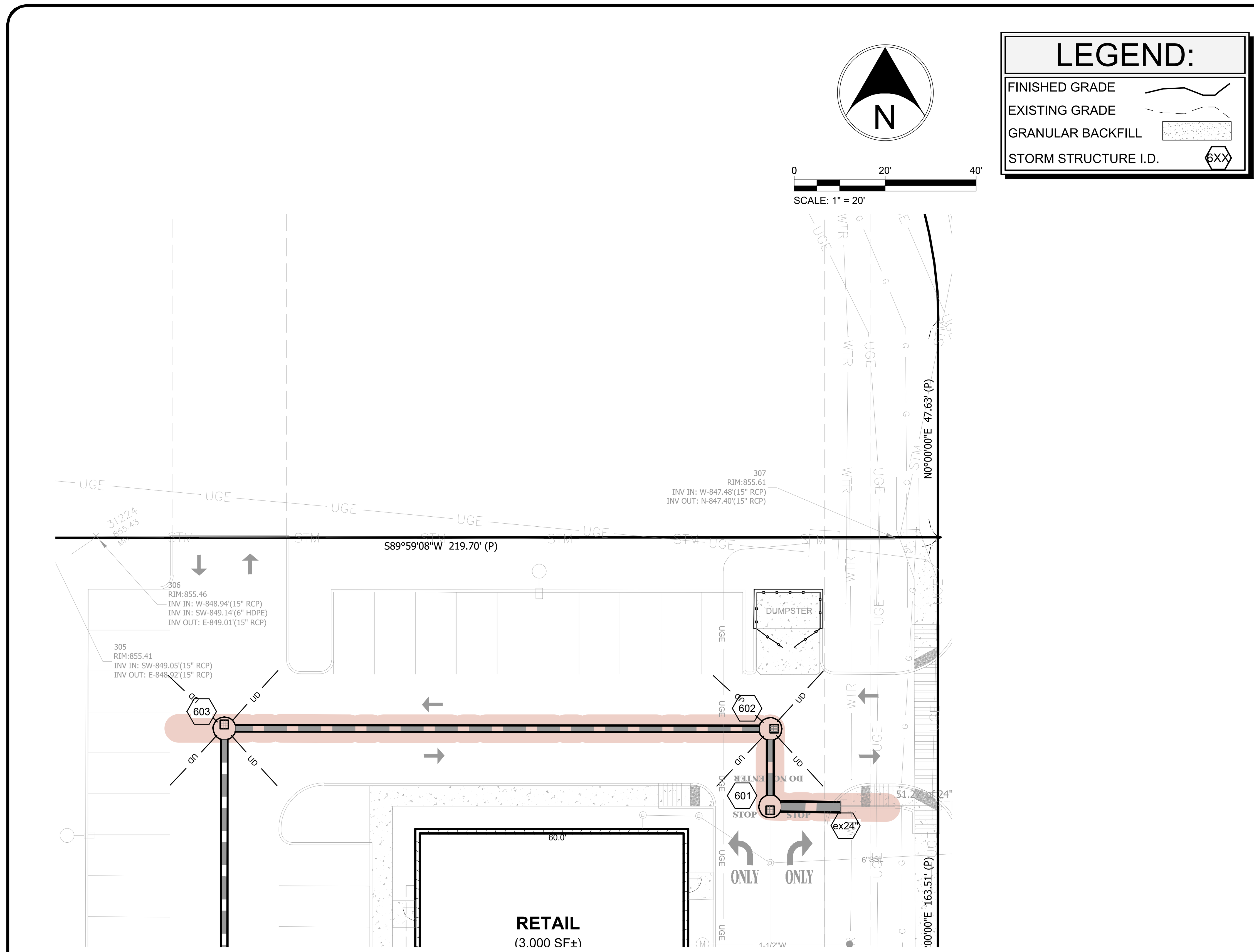
SECTION, TOWNSHIP, RANGE:
SW ¼, S2, T16N, R5E

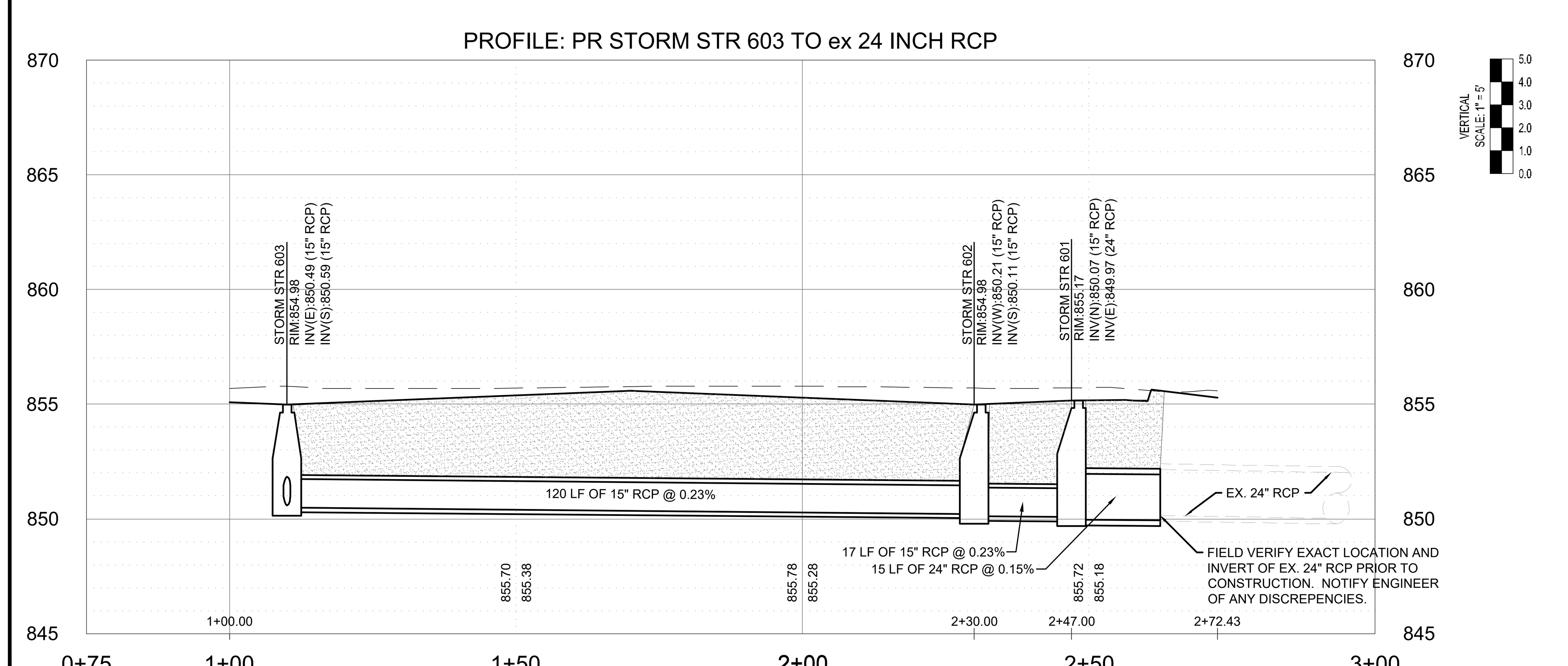
CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

PLAN DATE: 09/22/23		
DESIGN: AF	CHECK: AF	DRAWN: KG
PROJECT NO. 2307011		

SHEET NAME
STORM PLAN & PROFILES

SHEET NO.
C402





STORM STRUCTURE DATA TABLE					
STRUCTURE I.D.	RIM ELEVATION	NEENAH CASTING DESIGNATION	INFLOW INV, SIZE, (DIRECTION), [UP STR.]	OUTFLOW INV, SIZE, (DIRECTION), [DOWN STR.]	DESCRIPTION & NOTES
601	855.17	R-3472	INV:850.07 15" RCP (N)[602]	INV:849.97 24" RCP (E)[EX24"]	48" DIA. MH
602	854.98	R-3472	INV:850.21 15" RCP (W)[603]	INV:850.11 15" RCP (S)[601]	48" DIA. MH
603	854.98	R-3472	INV:850.59 15" RCP (S)[604]	INV:850.49 15" RCP (E)[602]	48" DIA. MH
604	854.98	R-3472	INV:850.99 12" RCP (E)[605]	INV:850.89 15" RCP (N)[603]	24"X24" BOX
605	855.01	R-3472		INV:851.35 12" RCP (W)[604]	24"X24" BOX

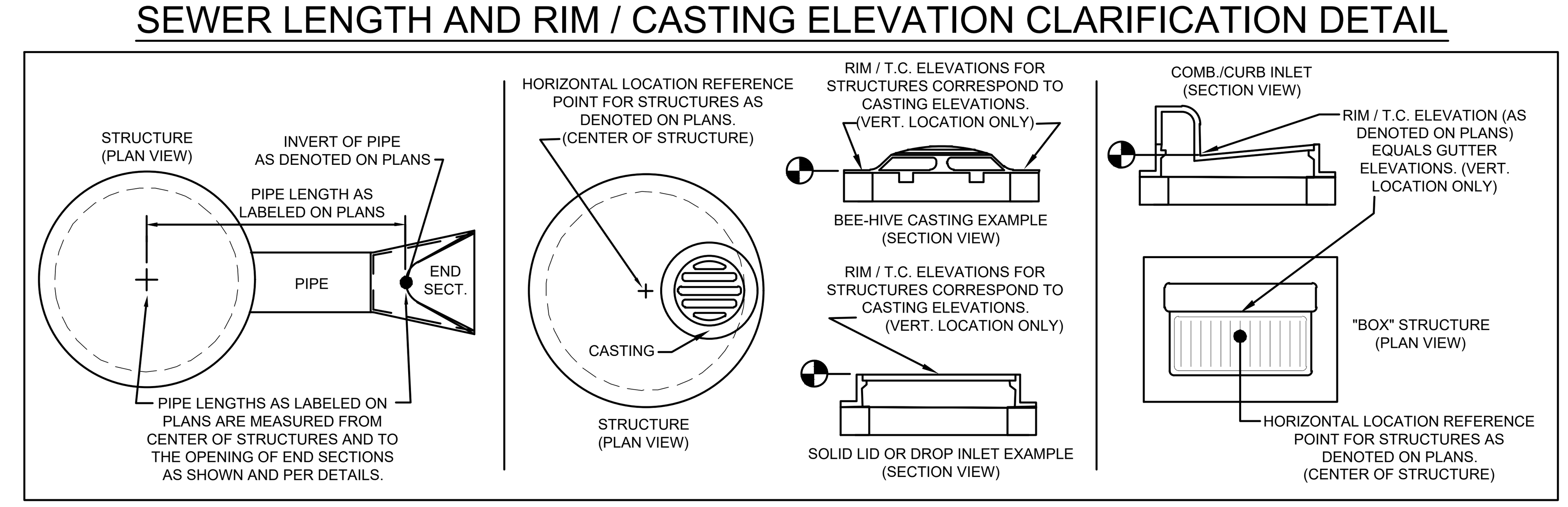
STORM SEWER PIPE DATA TABLE						
UPSTREAM STRUCTURE I.D.	DOWNSTREAM STRUCTURE I.D.	LENGTH OF PIPE	PIPE SIZE / TYPE	SLOPE %	UPSTREAM PIPE INV.	DOWNSTREAM PIPE INV.
605	604	120 LF	12" RCP	0.30%	851.35	850.99
604	603	129 LF	15" RCP	0.23%	850.89	850.59
603	602	120 LF	15" RCP	0.23%	850.49	850.21
602	601	17 LF	15" RCP	0.23%	850.11	850.07
601	ex24"	15 LF	24" RCP	0.15%	849.97	849.95

CONNECT TO EX. 24" RCP STUB. FIELD VERIFY EX PIPE LOCATION/INVERT PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPENCIES.

STRUCTURE & PIPE TABLE NOTES:

1. INLET CASTINGS SHALL HAVE THE WORDS "NO DUMPING, DRAINS TO STREAM" CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM 1 INCH IN HEIGHT. A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.
2. "R-#" SIGNIFIES NEENAH CASTING NUMBERS.
3. TYPE "#" MANHOLE / INLET REPRESENTS "INDOT" STORM STRUCTURE EQUIVALENT.
4. FOR COMBINATION / CURB INLETS, RIM ELEVATION AND GUTTER ELEVATION ARE ONE AND THE SAME.
5. FOR SOLID LIDS AND DROP INLETS, RIM ELEVATION AND TOP OF CASTING ARE ONE AND THE SAME.
6. ALL STORM HDPE PIPE (EXCEPT FOR UNDERDRAINS) SHALL BE N-12 (SMOOTH WALLED) PIPE UNLESS NOTED OTHERWISE.
7. SEWER PIPE LENGTHS AS LABELED ON THE PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
8. SEWER PIPES / CULVERT LENGTHS ARE MEASURED TO THE OPENING OF THE END SECTION, NOT TO WHERE THE PIPE CONNECTS TO THE END SECTION ITSELF. SEE DETAILS.

SEWER LENGTH AND RIM / CASTING ELEVATION CLARIFICATION DETAIL



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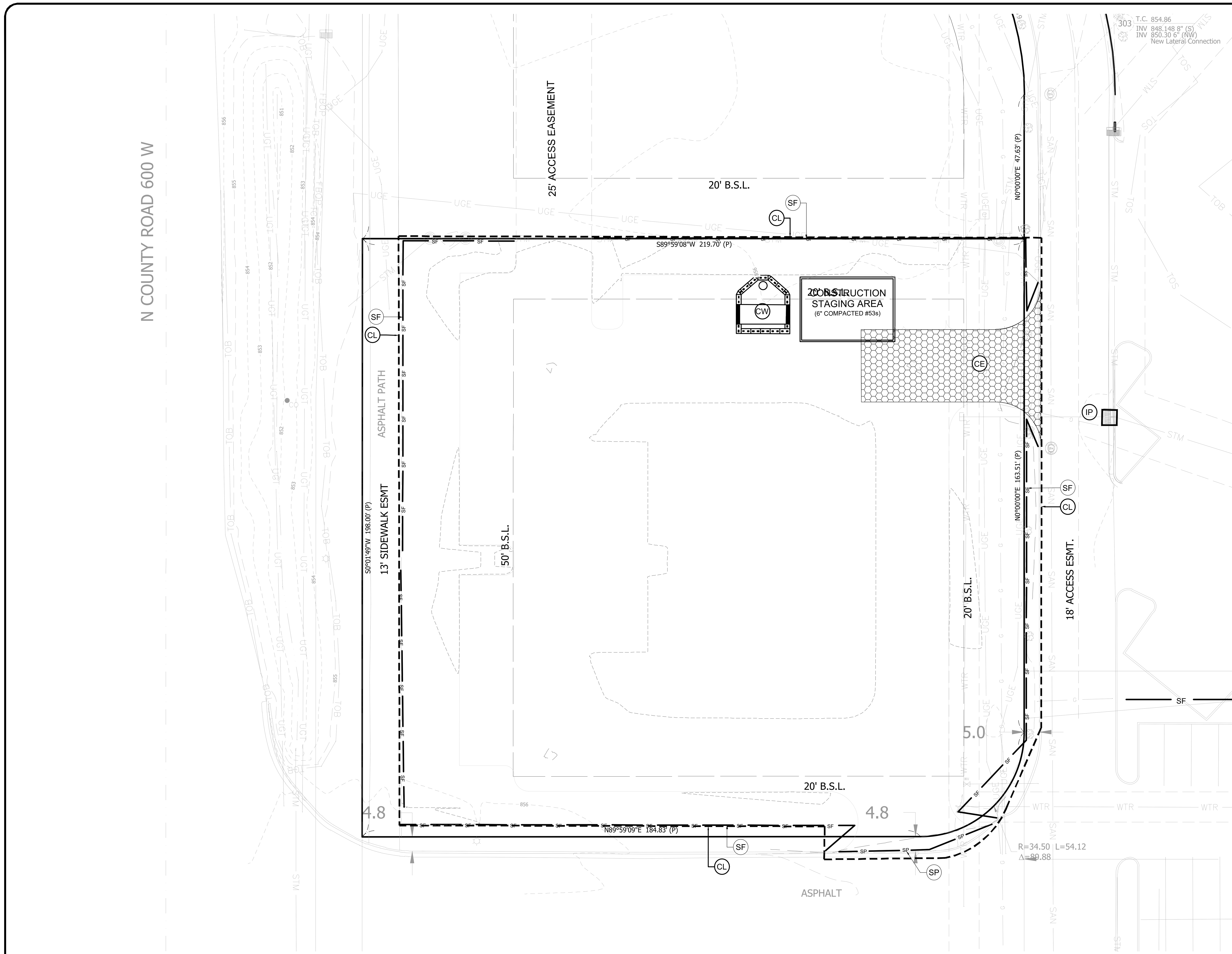
MCCORDSVILLE

PROJECT LOCATION:
7419 W. 600 N.
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW 1/4, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

PLAN DATE: 09/22/23
DESIGN: AF | CHECK: AF | DRAWN: KG
PROJECT NO. 2307011
SHEET NAME
STORM PLAN & PROFILES
SHEET NO.
C403



0 20' 40'

SCALE: 1" = 20'

KEY NOTES: (XX)

IP	INLET PROTECTION	
CE	CONSTRUCTION ENTRANCE	
PS	PERMANENT SEEDING	
TS	TEMPORARY SEEDING	
EB	EROSION CONTROL BLANKET WITH PERMANENT SEEDING	
SP	SILT PERIMETER PROTECTION (SILT SOCK)	SP
SF	SILT FENCE	SF
CL	EROSION CONTROL LIMITS	
CW	CONCRETE WASHOUT	
SUB	PAVEMENT SUBBASE	
LA	LANDSCAPE PLANTING AREA SEE SHEET L101 FOR PERMANENT E.C. MEASURE	
RP	OUTLET RIP-RAP PROTECTION	
CD	ROCK CHECK DAM	

THE CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL AND STORM WATER POLLUTION PREVENTION FOR THE PROJECT AREA:

NAME: JRF CONSTRUCTION C/O JR FREIBURGER
ADDRESS: 705 E. MAIN ST., WESTFIELD, IN.
PHONE: 317-714-8386
EMAIL: JR@JRFCONSTRUCTION.COM

LIST OF QUALIFICATIONS:
CONTRACTOR IS TO INFORM TOWN OF MCCORDSVILLE OF WHOM THIS STORMWATER POLLUTION PREVENTION INDIVIDUAL IS AT THE PRE-CONSTRUCTION MEETING, PRIOR TO ANY EARTH DISTURBING & CONSTRUCTION ACTIVITIES.

THE INDIANA STORM WATER QUALITY MANUAL AND TOWN OF MCCORDSVILLE STANDARDS SHALL BE USED IN CONJUNCTION WITH THIS SET OF EROSION CONTROL PLANS.

EROSION CONTROL NOTES:

1. All disturbed areas shall be restored to initial / pre-construction conditions and grades. All flow lines shall be re-established and vegetative cover restored. Contractor may be required to extend vegetative restoration period to warmer months to ensure seed germination.
2. All erosion control practices shall be in accordance with the "Indiana Storm Water Quality Manual" and the SCS "Field Office Technical Guide".
3. The governing municipality has the right to require additional erosion control measures in the field as conditions warrant.
4. The storm water quality unit shown on these plans shall be the unit installed during the development of this property. No substitutions shall be permitted.
5. No soil will be removed or disposed of from the grading site.
6. There shall be no dirt, debris, or storage of materials in the street or alleyways.
5. Additional erosion and sediment control measures may be required by the inspector.
5. Copies of the letter of intent and response from TOWN OF MCCORDSVILLE office for Construction Stormwater General Permit compliance shall be provided onsite, when required.
6. All erosion control materials shall be approved by TOWN OF MCCORDSVILLE prior to installation.

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6. All erosion control materials shall be approved by TOWN OF MCCORDSVILLE prior to installation.
7. All proposed erosion and sediment control shall be in conformance with the TOWN OF MCCORDSVILLE Stormwater Design and Specifications Manual and Requirements, latest editions. Discrepancies between the plans and the manual shall not alleviate the contractor from adhering to the requirements set forth in the manual.

EROSION CONTROL MAINTENANCE SCHEDULE

EROSION CONTROL MEASURE	*MAINTENANCE	INSTALLATION SEQUENCE
STONE CONSTRUCTION ENTRANCE	AS NEEDED	PRIOR TO CLEARING AND GRADING
SILT PERIMETER PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
EXISTING INLET PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TREE PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
[redacted]		
PERMANENT SEEDING	WATER AS NEEDED	AFTER FINISH GRADING
[redacted]		
INLET PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER EACH INLET IS PLACED
SEED, SOD & LANDSCAPE AROUND UNITS FINISHED	WATER AS NEEDED	AFTER FINISHED GRADING AROUND FINISHED UNITS
[redacted]		
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT PERIMETER	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

*- SEE CHART, NOTES AND DETAILS FOR MAINTENANCE REQUIREMENTS

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GENERAL NOTES / LEGEND:

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PROJECT:
QDOBA MEXICAN EATS
MCCORDSVILLE

PROJECT LOCATION:
7419 W. 600 N.
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW 1/4, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

PLAN DATE: 09/22/23

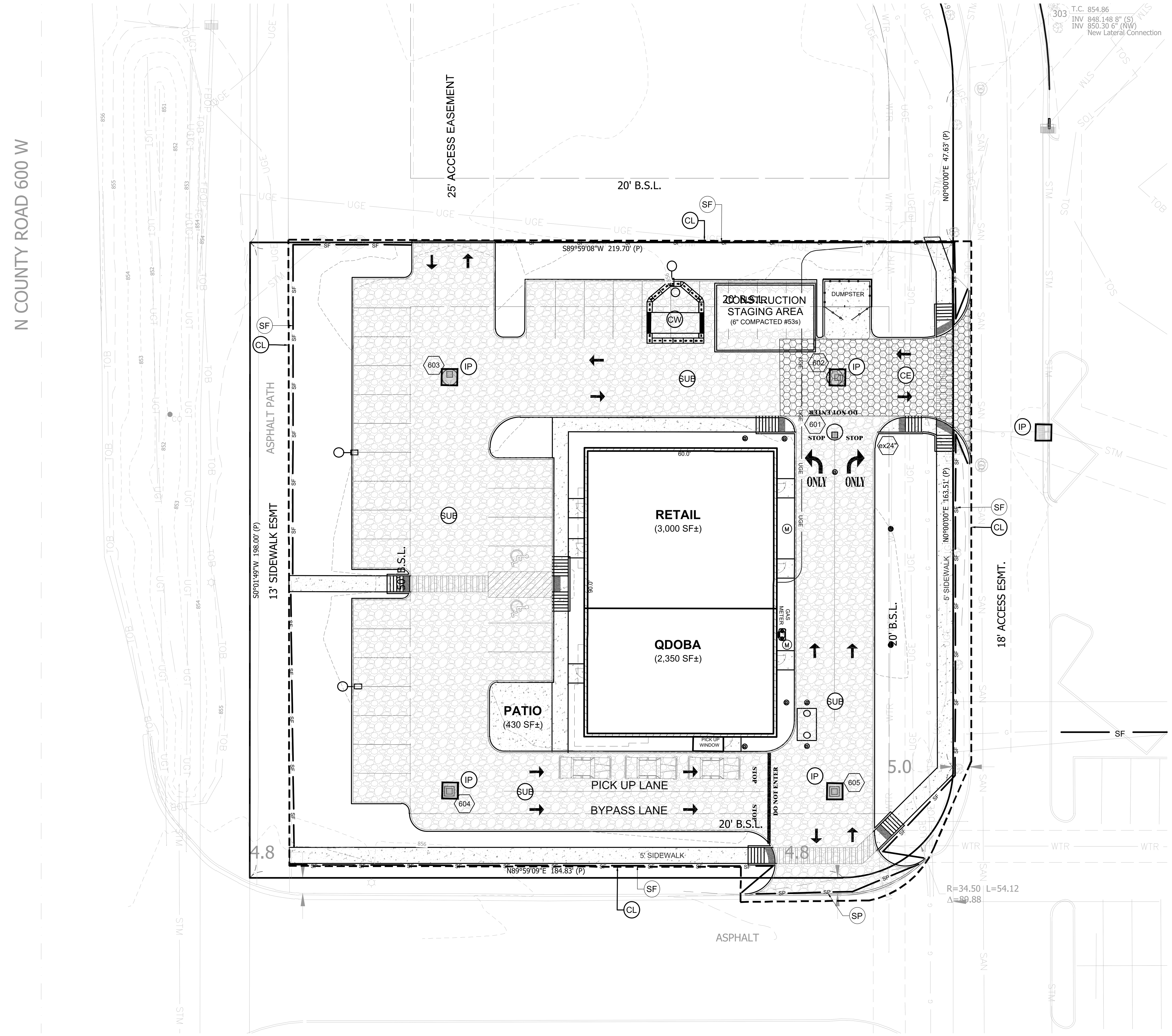
DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2307011

SHEET NAME
INITIAL EROSION CONTROL SWPPP

SHEET NO.
C501

PRINTED BY: Ashton Fritz
DATE: 9/21/2023 11:44 AM
SHEET SIZE, SCALE: ANSI FULL BLEED D (34.00 X 22.00 INCHES), 1:1
FILE NAME: F:\2023\2307011 - QDOBA RETAIL MCCORDSVILLE\03 CIVIL\PLANS\C501.DWG, LAYOUT: C501 INITIAL EROSION CONTROLS SWPPP



SCALE: 1" = 20'

KEY NOTES:

IP	INLET PROTECTION	
CE	CONSTRUCTION ENTRANCE	
PS	PERMANENT SEEDING	
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EB	EROSION CONTROL BLANKET WITH PERMANENT SEEDING	
SP	SILT PERIMETER PROTECTION (SILT SOCK)	SP
SF	SILT FENCE	SF
CL	EROSION CONTROL LIMITS	
CW	CONCRETE WASHOUT	
SUB	PAVEMENT SUBBASE	
LA	LANDSCAPE PLANTING AREA SEE SHEET L101 FOR PERMANENT E.C. MEASURE	
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CD	ROCK CHECK DAM	

<u>THE CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL AND STORM WATER POLLUTION PREVENTION FOR THE PROJECT AREA:</u>

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ADDRESS: 705 E. MAIN ST., WESTFIELD, IN.
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EXISTING INLET PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TREE PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
PERMANENT SEEDING	WATER AS NEEDED	AFTER FINISH GRADING
INLET PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER EACH INLET IS PLACED
SEED, SOD & LANDSCAPE AROUND UNITS FINISHED	WATER AS NEEDED	AFTER FINISHED GRADING AROUND FINISHED UNITS
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT PERIMETER	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

*- SEE CHART, NOTES AND DETAILS FOR MAINTENANCE REQUIREMENTS

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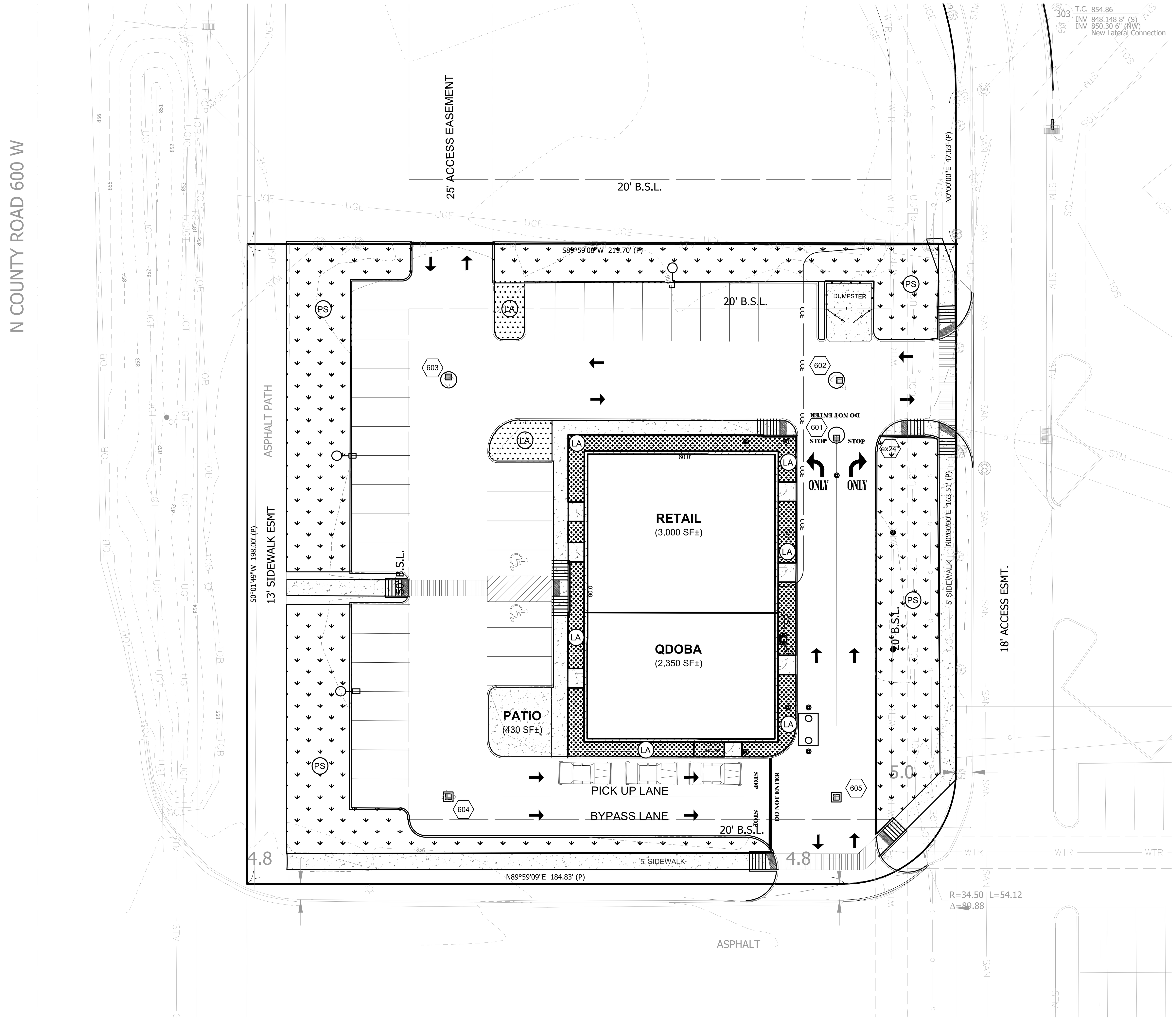
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW $\frac{1}{4}$, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

PLAN DATE: 09/22/23
DESIGN: AF CHECK: AF DRAWN: KG
PROJECT NO. 2307011
SHEET NAME: MASS GRADING & CONSTRUCTION SWPPP
SHEET NO. C502

PRINTED BY: Ashton Fritz
DATE: 9/21/2023 11:44 AM
SHEET SIZE, SCALE: ANSI FULL BLEED D (34.00 X 22.00 INCHES), 1:1
FILE NAME: F:\2023\2307011 - QDOBA RETAIL MCCORDSVILLE\03 CIVIL\PLANS\C501.DWG, LAYOUT: C502 MASS GRADING & CONSTRUCTION SWPPP



SCALE: 1" = 20'

KEY NOTES:

IP	INLET PROTECTION	
CE	CONSTRUCTION ENTRANCE	
PS	PERMANENT SEEDING	
TS	TEMPORARY SEEDING	
EB	EROSION CONTROL BLANKET WITH PERMANENT SEEDING	
SP	SILT PERIMETER PROTECTION (SILT SOCK)	SP
SF	SILT FENCE	SF
CL	EROSION CONTROL LIMITS	
CW	CONCRETE WASHOUT	
SUB	PAVEMENT SUBBASE	
LA	LANDSCAPE PLANTING AREA SEE SHEET L101 FOR PERMANENT E.C. MEASURE	
RP	OUTLET RIP-RAP PROTECTION	
CD	ROCK CHECK DAM	

THE CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL AND STORM WATER POLLUTION PREVENTION FOR THE PROJECT AREA:

NAME: JRF CONSTRUCTION C/O JR FREIBURGER
ADDRESS: 705 E. MAIN ST., WESTFIELD, IN.
PHONE: 317-714-8386
EMAIL: JR@JRFCONSTRUCTION.COM

LIST OF QUALIFICATIONS:
CONTRACTOR IS TO INFORM TOWN OF MCCORDSVILLE OF WHOM THIS STORMWATER POLLUTION PREVENTION INDIVIDUAL IS AT THE PRE-CONSTRUCTION MEETING, PRIOR TO ANY EARTH DISTURBING & CONSTRUCTION ACTIVITIES.

THE INDIANA STORM WATER QUALITY MANUAL AND TOWN OF MCCORDSVILLE STANDARDS SHALL BE USED IN CONJUNCTION WITH THIS SET OF EROSION CONTROL PLANS.

EROSION CONTROL NOTES:

1. All disturbed areas shall be restored to initial / pre-construction conditions and grades. All flow lines shall be re-established and vegetative cover restored. Contractor may be required to extend vegetative restoration period to warmer months to ensure seed germination.
2. All erosion control practices shall be in accordance with the "Indiana Storm Water Quality Manual" and the SCS "Field Office Technical Guide".
3. The governing municipality has the right to require additional erosion control measures in the field as conditions warrant.
4. The storm water quality unit shown on these plans shall be the unit installed during the development of this property. No substitutions shall be permitted.
5. No soil will be removed or disposed of from the grading site.
6. There shall be no dirt, debris, or storage of materials in the street or alleyways.
5. Additional erosion and sediment control measures may be required by the inspector.
5. Copies of the letter of intent and response from TOWN OF MCCORDSVILLE office for Construction Stormwater General Permit compliance shall be provided onsite, when required.
6. All erosion control materials shall be approved by TOWN OF MCCORDSVILLE prior to installation.

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5. Additional erosion and sediment control measures may be required by the inspector.
5. Copies of the letter of intent and response from TOWN OF MCCORDSVILLE office for Construction Stormwater General Permit compliance, when required.
6. All erosion control materials shall be approved by TOWN OF MCCORDSVILLE prior to installation.
7. All proposed erosion and sediment control shall be in conformance with the TOWN OF MCCORDSVILLE Stormwater Design and Specifications Manual and Requirements, latest editions. Discrepancies between the plans and the manual shall not alleviate the contractor from adhering to the requirements set forth in the manual.

EROSION CONTROL MAINTENANCE SCHEDULE

EROSION CONTROL MEASURE	*MAINTENANCE	INSTALLATION SEQUENCE
STONE CONSTRUCTION ENTRANCE	AS NEEDED	PRIOR TO CLEARING AND GRADING
SILT PERIMETER PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
EXISTING INLET PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TREE PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
[redacted]		
PERMANENT SEEDING	WATER AS NEEDED	AFTER FINISH GRADING
[redacted]		
INLET PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER EACH INLET IS PLACED
SEED, SOD & LANDSCAPE AROUND UNITS FINISHED	WATER AS NEEDED	AFTER FINISHED GRADING AROUND FINISHED UNITS
[redacted]		
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT PERIMETER	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

*- SEE CHART, NOTES AND DETAILS FOR MAINTENANCE REQUIREMENTS

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ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
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www.Fritz-Eng.com

PRELIMINARY
NOT FOR
CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
QDOBA MEXICAN EATS
MCCORDSVILLE

PROJECT LOCATION:
7419 W. 600 N.
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW 1/4, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

PLAN DATE: 09/22/23
DESIGN: AF CHECK: AF DRAWN: KG
PROJECT NO. 2307011
SHEET NAME: POST CONSTRUCTION SWPPP
SHEET NO. C503

EROSION CONTROL SEQUENCE & PROCEDURES

*THESE EROSION CONTROL MEASURES, SEQUENCES AND PROCEDURES SHALL APPLY TO ALL PHASES OF THE PROJECT, INCLUDING THE INITIAL / PRE-CONSTRUCTION PHASE, DURING CONSTRUCTION PHASE, AND POST CONSTRUCTION PHASE.

Contractor shall schedule a Pre-Construction Meeting with the TOWN OF MCCORDSVILLE Stormwater Management Department.

1. prior to any earth moving activities or construction.
2. The following erosion control measures shall be in place prior to any land disturbing activities:
   - 2.1. Create a stabilized construction entrance.
   - 2.2. Install Temporary Inlet Protection Measures on existing storm inlets.
   - 2.3. Install Temporary Silt Fence and/or Silt Sock Protection as shown on approved plans.
   - 2.4. Install Temporary Construction Washout as required.
   - 2.5. Install Temporary check dams and sediment basins as required.
3. Contractor shall contact the TOWN OF MCCORDSVILLE for an initial Erosion Control Inspection to obtain full sign off on the Improvement Location Permit prior to earthwork activities.
4. The contractor shall control waste, garbage, debris, wastewater, and other substances on the site so they will not be transported from the site by the action of wind, storm water runoff, or other forces. Proper disposal or management of all wastes and unused building material appropriate to the nature of the waste or material is required.
5. Public or private roadways shall be kept clear of accumulated sediment. All sediment that is cleared must be returned to the likely point of origin or other suitable location. Clearing of large amounts of sediment shall not include flushing the area with water.
6. Minimize the exposure of bare earth by limiting the work area to that necessary to perform the work, and by proper scheduling of manpower and equipment.
7. All erosion and sediment control measures shall be inspected, cleaned, and maintained following each storm event.
8. Wherever possible, maintain existing vegetative cover. Use non-vegetative material including mulch, erosion blankets, or stone to control erosion from disturbed areas.
9. A log shall be maintained of all inspections (weekly, and following storm events), maintenance and repair of erosion and sediment control measures. The log shall be maintained on site and be available upon request to the owners representatives and the operating authorities having jurisdiction over the site.
10. Once land disturbing activities begin, the following practices shall be provided:
    - 10.1. The Trained Individual responsible for the erosions control maintenance for the contractor shall make weekly site inspections and after every rainfall event of 0.5 inches and greater.
    - 10.2. Positive drainage shall be maintained at all times. Contractor shall ensure the downstream drainage system and adjacent properties are not receiving sediment/debris laden runoff. If additional measures are necessary to protect adjacent properties or the downstream drainage system, the Contractor shall notify the Engineer and implement the necessary measures immediately.
    - 10.3. Once earth disturbing activities begin, the adjacent roadways, adjacent drives and parking lots shall be continuously monitored for sediment tracking. If sediment is found, immediate action is required to clean the offsite areas and the current erosion control practices will need to be inspected and modified accordingly to prevent any further sediment from leaving the project site.
    - 10.4. Once the new storm structures and / or pipes are is in place, the appropriate type of inlet protection measures shall be placed.
    - 10.5. As surface types change, perimeter silt protection may need to be modified or replaced with a different perimeter protection. Update and replace perimeter silt protection as needed and required per these plans and site conditions / restraints.
    - 10.6. Continued monitoring of all exposed areas shall be performed in order to verify the surrounding areas are not becoming sediment laden from construction activities onsite.
    - 10.7. As the construction occurs, disturbed areas shall be stabilized as soon as they are at finished grade or will be left bare for more than 15 days.
    - 10.8. Provide final grade stabilization upon final grading of all areas including erosion control blanketing, seeding and sodding as appropriate.
    - 10.9. Storm sewers that become silted due to construction activities shall be cleaned with a jet vacuum and the material properly disposed of.
    - 10.10. As the existing swales and ditches are removed or graded away, the temporary check dams, filter dams, and sediment basins may be removed (unless noted otherwise on the plans) along with their retained debris, pollutants, and sediment. All material shall be disposed of off site at an approved location.
11. After site preparation, demolition, clearing and mass earthwork phases are complete and prior to infrastructure, building, and fine grading construction begins:
    - 11.1. The perimeter erosion control practices (silt fence, construction entrance, check filter dams, temp. sediment basins, etc.) shall be examined, cleaned, and reinstalled if damaged. Some practices may need to be relocated or changed for the proposed site layout or per construction phases. (See Erosion Control Plans).
    - 11.2. Relocate staging area if needed due to site configuration.
    - 11.3. Install a Temporary Concrete Washout if not done already.
    - 11.4. Once the new storm structures and / or pipes are is in place, the appropriate type of inlet protection measures shall be placed.
    - 11.5. Continued monitoring of all exposed areas shall be performed in order to verify the surrounding areas are not becoming sediment laden from construction activities onsite.
    - 11.6. As the construction occurs, disturbed areas shall be stabilized as soon as they are at finished grade or will be left bare for more than 15 days.
    - 11.7. Provide final grade stabilization upon final grading of all areas including erosion control blanketing, seeding and sodding as appropriate.
    - 11.8. Storm sewers that become silted due to construction activities shall be cleaned with a jet vacuumed and the material properly disposed of.
    - 11.9. Temporary silt fence to be installed around pond and maintained until open areas contributing to direct sheet flow to pond have been stabilized. Only once these open areas are properly and permanently stabilized can this temporary silt fence be removed and disposed of properly.
    - 11.10. Minimize erosion from exposed areas by providing and maintaining temporary or permanent stabilization measures. Erosion control measures to protect exposed areas shall be installed at the end of the day's work or within 24 hours of the completion of the earth disturbing activity, as applicable for the type of measure.
    - 11.11. All disturbed areas shall be seeded and/or stabilized upon completion of the earth disturbing activity.
    - 11.12. Rip-rap protection for final grades, detention ponds or storm sewers need established upon completion of final grading and storm sewer construction.
12. All graded areas (lawns, banks, mounds, etc.) with slopes equal to or steeper than 6h:1v shall be stabilized with an erosion control blanket unless noted otherwise. All constructed swales channels shall be stabilized with an erosion control blanket to the top of the bank. Soil stockpiles shall be seeded and mulched to minimize erosion.
13. All other lawn and planting areas shall be seeded and stabilized with an anchored, crimped or tackified mulch and seed mixture.
14. Areas to be paved shall be stabilized with a temporary stone cover. The temporary stone stabilization shall be equivalent to the proposed stone sub-base material. Adequate sub-base depths shall be maintained during construction, verified and restored, if necessary, prior to final paving. Stone stabilization shall be installed per the paving specifications and details.
15. Install pipe and grate inlet protection measures and pipe outlet protection as new pipes or pipe extensions are installed. Limit excavation to the work that can be performed that day. Trenches shall be seeded and mulched as part of the backfill operation.
16. Install inlet protection measures to prevent debris and sediment from entering storm system. Check weekly and after each storm event for debris and sediment. Clear blockages as identified. Damaged or ineffective measures shall be replaced.
17. Soil stockpiles shall have appropriate perimeter protection to prevent sedimentation of the surrounding acres. Any stock pile that will not be disturbed for 15 days or longer shall be seeded and protected with mulch or erosion control blanket.
18. All disturbed areas where work will potentially cease for 15 days or longer shall be seeded and stabilized immediately upon completion of the activity.
19. Erosion and sediment control measures shall be maintained until the site is 95% stabilized.
20. Construction Phase BMP's shall remain in place and continue to be inspected until the entire site has reached the minimum vegetative cover, 70% established.
21. Once construction is complete and prior to the contractor handing over the project to the owner, the contractor shall clean all debris, pollutants, and sediment from the storm sewers.
22. Once construction is complete and prior to the contractor handing over the project to the owner, the contractor shall clean all debris, pollutants, and sediment from the detention pond and remove the outlet structure rock check dam. Contractor to stabilize wet detention ponds (if any) after clean out.
23. Upon the site reaching the required minimum established vegetative cover, the IDEM CSGP Notice of Termination shall be submitted to the MS4 Department for approval prior to submitting it to IDEM if required for project.

EROSION CONTROL MAINTENANCE SCHEDULE

EROSION CONTROL MEASURE	*MAINTENANCE	INSTALLATION SEQUENCE
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TREE PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
[redacted]		
PERMANENT SEEDING	WATER AS NEEDED	AFTER FINISH GRADING
[redacted]		
INLET PROTECTION	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER EACH INLET IS PLACED
SEED, SOD & LANDSCAPE AROUND	WATER AS NEEDED	AFTER FINISHED GRADING AROUND FINISHED UNITS
UNITS FINISHED		
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*- SEE CHART, NOTES AND DETAILS FOR MAINTENANCE REQUIREMENTS

Soil Map—Hancock County, Indiana

Map Scale: 1:551 if printed on A landscape (11" x 8.5") sheet.

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

Natural Resources Conservation Service | Web Soil Survey National Cooperative Soil Survey | 9/17/2023 Page 1 of 3

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THE INDIANA STORM WATER QUALITY MANUAL AND TOWN OF MCCORDSVILLE STANDARDS SHALL BE USED IN CONJUNCTION WITH THIS SET OF EROSION CONTROL PLANS.

RUSLE2 Related Attributes

This report summarizes those soil attributes used by the Revised Universal Soil Loss Equation Version 2 (RUSLE2) for the map units in the selected area. The report includes the map unit symbol, the component name, and the percent of the component in the map unit. Soil property data for each map unit component include the hydrologic soil group, erosion factor Kf for the surface horizon, erosion factor T, and the representative percentage of sand, silt, and clay in the mineral surface horizon. Missing surface data may indicate the presence of an organic layer.

Report—RUSLE2 Related Attributes

Soil properties and interpretations for erosion runoff calculations. The surface mineral horizon properties are displayed or the first mineral horizon below an organic surface horizon. Organic horizons are not displayed.

RUSLE2 Related Attributes–Hancock County, Indiana

Map symbol and soil name	Pct. of map unit	Slope length (ft)	Hydrologic group	Kf	T factor	Representative value		
						% Sand	% Silt	% Clay
Br—Brookston silty clay loam, 0 to 2 percent slopes								
Brookston	95	200	B/D	.28	5	13.0	59.0	28.0
CrA—Crosby silt loam, New Castle Till Plain, 0 to 2 percent slopes								
Crosby	80	249	C/D	.43	3	18.0	64.0	18.0
YcuA—Crosby silt loam-Urban land complex, 0 to 2 percent slopes								
Crosby	60	249	C/D	.43	3	18.0	64.0	18.0

Report—Water Features

Map unit symbol and soil name	Hydrologic group	Surface runoff	Most likely months	Water table			Ponding			Flooding	
				Upper limit	Lower limit	Kind	Surface depth	Duration	Frequency	Duration	Frequency
				Ft	*Ft*		*Ft*				
Br—Brookston silty clay loam, 0 to 2 percent slopes											
Brookston	B/D	Negligible	Jan-May	0.0-1.0	6.0	Apparent	0.0-0.5	Long (7 to 30 days)	Frequent	—	None
			Jun	4.0-5.0	6.0	Apparent	—	—	—	—	None
			Jul-Oct	—	—	—	—	—	—	—	None
			Nov	4.0-5.0	6.0	Apparent	—	—	—	—	None
			Dec	0.0-1.0	6.0	Apparent	0.0-0.5	Long (7 to 30 days)	Frequent	—	None
CrA—Crosby silt loam, New Castle Till Plain, 0 to 2 percent slopes											
Crosby	C/D	Medium	Jan-Mar	0.5-2.0	2.0-3.5	Perched	—	—	None	—	None
			Apr	0.5-3.0	2.0-3.5	Perched	—	—	None	—	None
			May	1.5-3.0	2.0-3.5	Perched	—	—	None	—	None
			Jun	1.5-3.5	2.0-3.5	Perched	—	—	None	—	None
			Jul-Sep	—	—	—	—	—	None	—	None
			Oct	1.5-3.5	2.0-3.5	Perched	—	—	None	—	None
			Nov	1.5-3.0	2.0-3.5	Perched	—	—	None	—	None
			Dec	0.5-3.0	2.0-3.5	Perched	—	—	None	—	None

Map unit symbol and soil name	Hydrologic group	Surface runoff	Most likely months	Water table			Ponding			Flooding	
				Upper limit	Lower limit	Kind	Surface depth	Duration	Frequency	Duration	Frequency
				Ft	*Ft*		*Ft*				
YcuA—Crosby silt loam-Urban land complex, 0 to 2 percent slopes											
Crosby	C/D	Medium	Jan-Mar	0.5-2.0	2.0-3.5	Perched	—	—	None	—	None
			Apr	0.5-3.0	2.0-3.5	Perched	—	—	None	—	None
			May	1.5-3.0	2.0-3.5	Perched	—	—	None	—	None
			Jun	1.5-3.5	2.0-3.5	Perched	—	—	None	—	None
			Jul-Sep	—	—	—	—	—	None	—	None
			Oct	1.5-3.5	2.0-3.5	Perched	—	—	None	—	None
			Nov	1.5-3.0	2.0-3.5	Perched	—	—	None	—	None
			Dec	0.5-3.0	2.0-3.5	Perched	—	—	None	—	None
Urban land		Very high		—	—	—	—	—	—	—	

SOILS MAP, INFORMATION, ATTRIBUTES AND LIMITING FEATURES

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

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Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
QDOBA MEXICAN EATS
MCCORDSVILLE

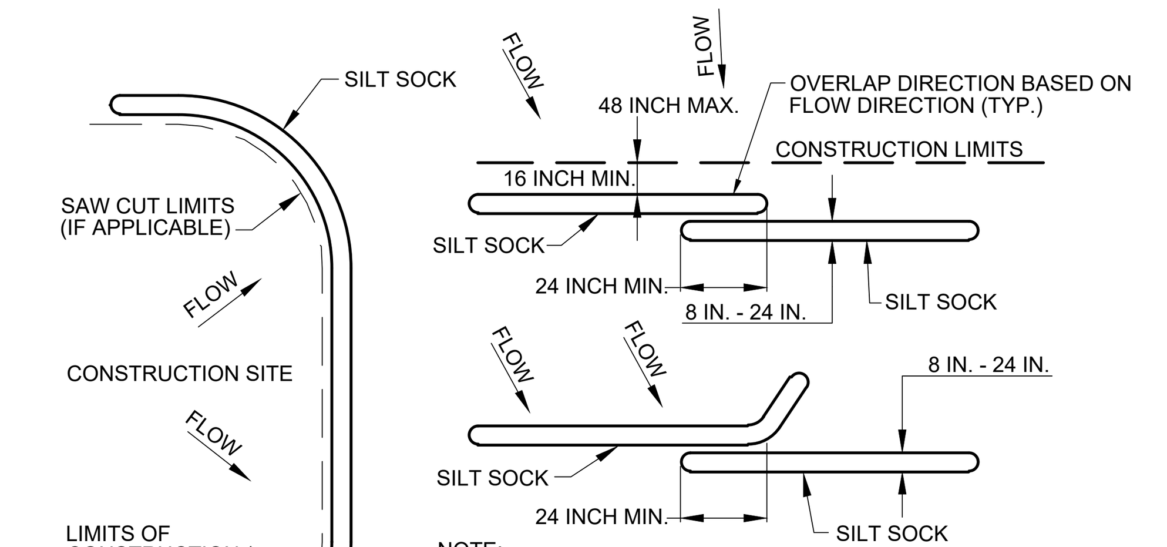
PROJECT LOCATION:
7419 W. 600 N.
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW 1/4, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

PLAN DATE: 09/22/23
DESIGN: AF | CHECK: AF | DRAWN: KG
PROJECT NO. 2307011
SHEET NAME: SWPPP SEQUENCING & SOILS INFORMATION
SHEET NO. C504

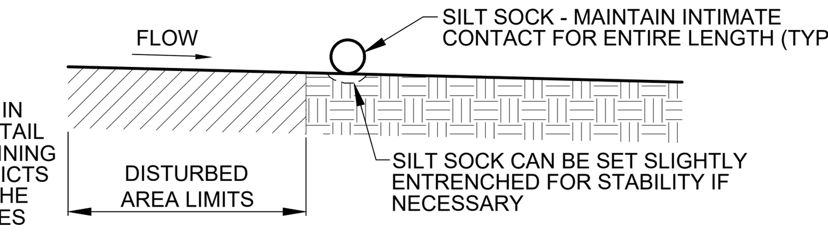
FILE NAME: F:\2023\2307011 - QDOBA RETAIL MCCORDSVILLE\03 CIVIL\PLANS\C501.DWG, LAYOUT: C504 SWPPP SEQUENCING & SOILS INFORMATION



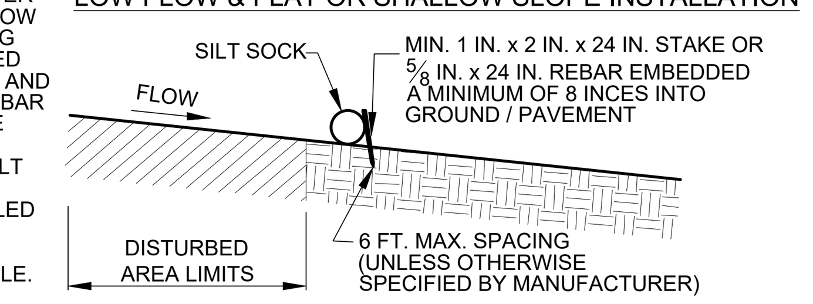
NOTE:
DISTANCE MAY EXCEED 48 INCHES UNDER SPECIAL CIRCUMSTANCES (EX. SPACE RESTRICTIONS, SLOPE, GRADE, ETC.) SPACING EXCEPTION MUST BE APPROVED BY FIELD INSPECTOR OR ENGINEER PRIOR TO INSTALLATION.

PLAN VIEW

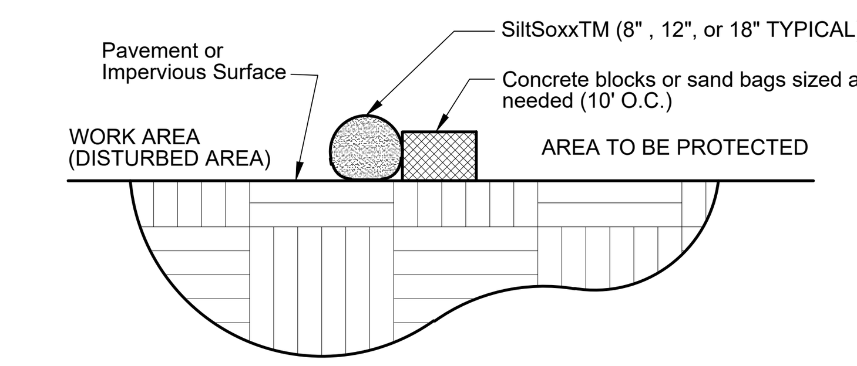
NOTES:
1. THE MANUFACTURER'S GUIDELINES SHALL BE USED IN CONJUNCTION WITH THIS DETAIL WHEN INSTALLING & MAINTAINING THESE MEASURES. IF CONFLICTS ARISE BETWEEN THE TWO, THE MANUFACTURER'S GUIDELINES SHALL GOVERN.
2. IF SILT SOCK INSTALLED UNDER LOW FLOW & FLAT OR SHALLOW SLOPE CONDITIONS & DURING INSPECTION IT IS DETERMINED THE SILT SOCK IS UNSTABLE AND / OR MOVING, STAKES OR REBAR SHALL BE INSTALLED OR THE SILT SOCK CAN BE SLIGHTLY ENTRENCHED TO SECURE SILT SOCK MEASURES.
3. SILT SOCK SHALL BE INSTALLED AS CLOSE TO THE CONSTRUCTION LIMITS / DISTURBED AREA AS POSSIBLE.



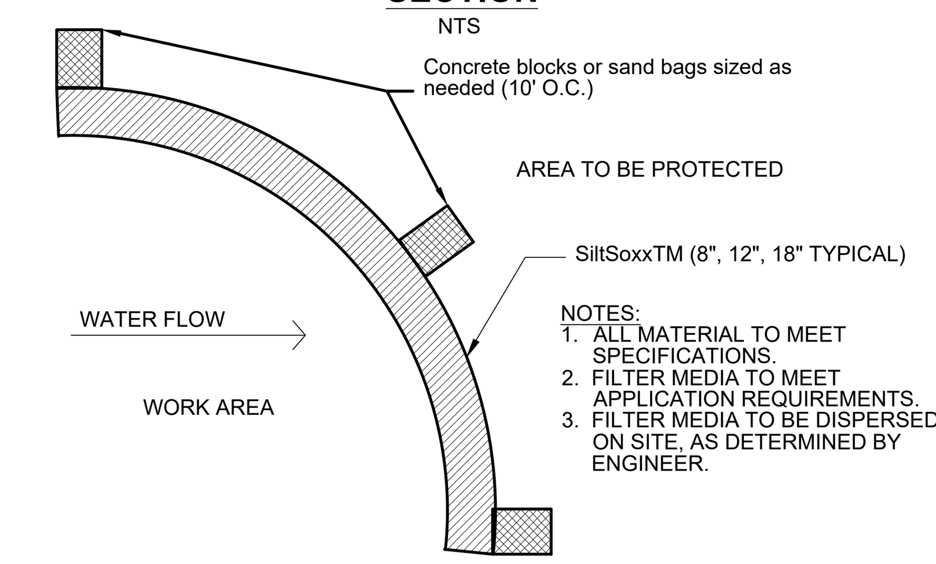
LOW FLOW & FLAT OR SHALLOW SLOPE INSTALLATION



HIGH FLOW OR SLOPE > 4:1 INSTALLATION



SECTION
NTS



NOTES:
1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. FILTER MEDIA TO MEET APPLICATION REQUIREMENTS.
3. FILTER MEDIA TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

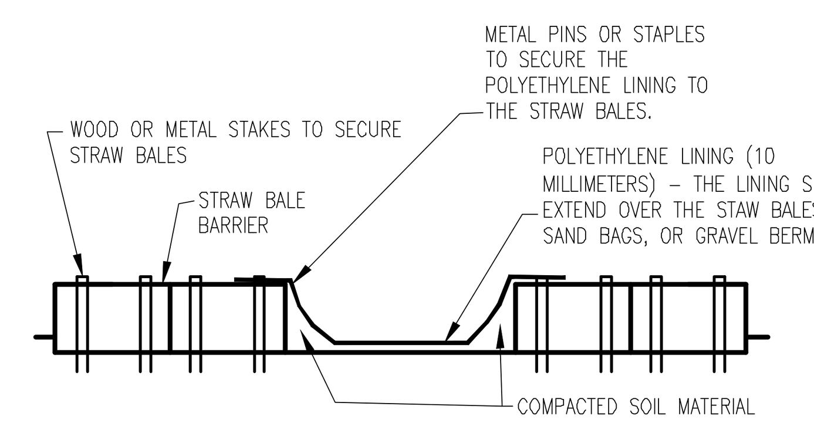
PLAN
NTS

SiltSoxxTM for Sediment Control on Pavement
(Detail provided by SiltSoxx Website)

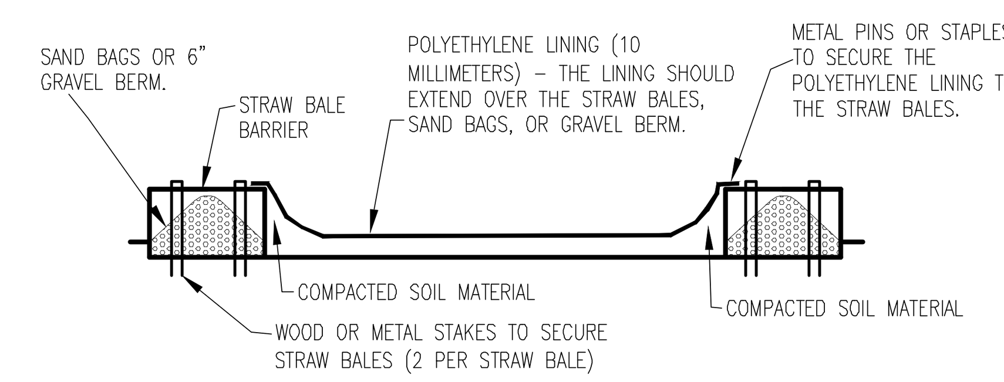
**Approved Silt Sock Product
The SiltSoxx application / installation detail (above) to be used in conjunction with the installation practices as shown on the adjacent detail to the left.

SILT SOCK PERIMETER PROTECTION DETAIL

NOT TO SCALE

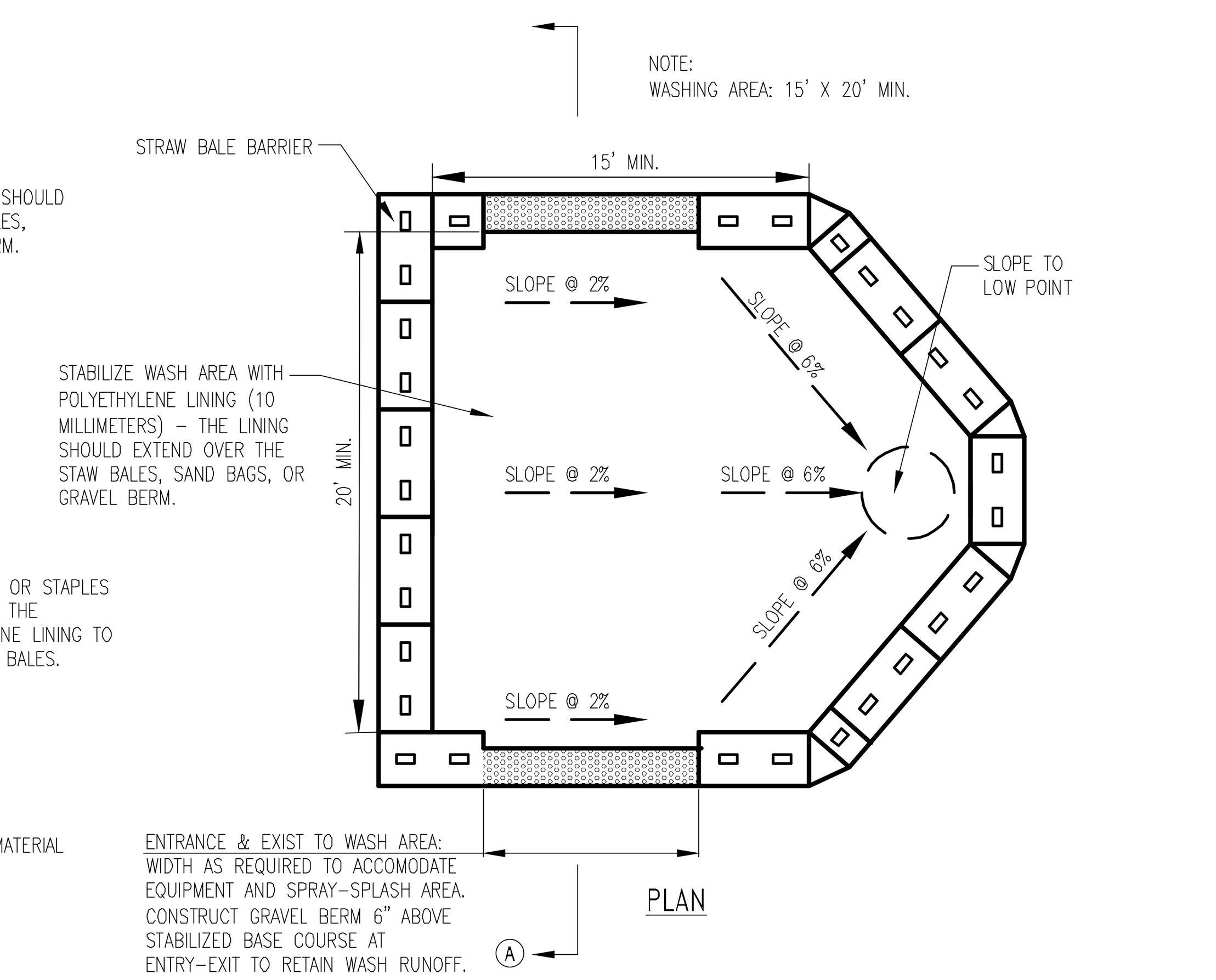


FRONT ELEVATION



SECTION A-A

NOTE:
WASHING AREA: 15' X 20' MIN.

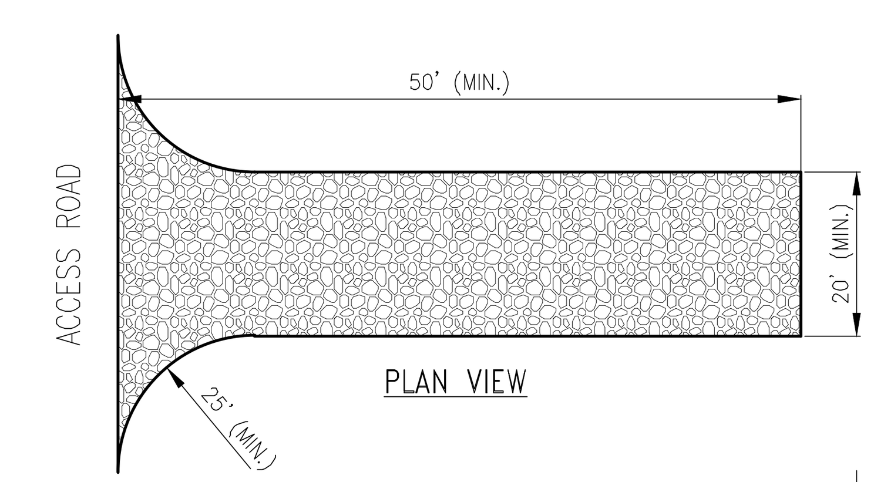


ENTRANCE & EXIST TO WASH AREA: WIDTH AS REQUIRED TO ACCOMODATE EQUIPMENT AND SPRAY-SPLASH AREA. CONSTRUCT GRAVEL BERM 6" ABOVE STABILIZED BASE COURSE AT ENTRY-EXIT TO RETAIN WASH RUNOFF.

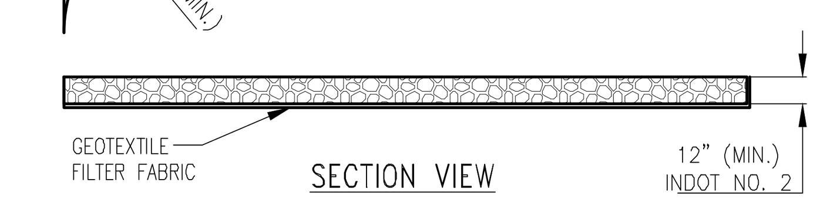
PLAN

CONCRETE WASHOUT AREA

NOT TO SCALE



PLAN VIEW

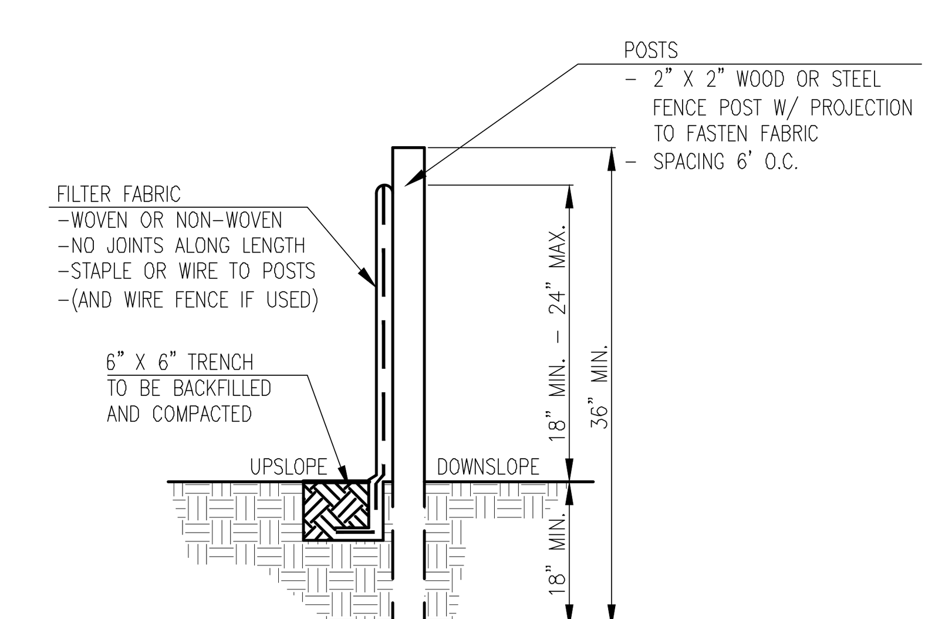


SECTION VIEW

MAINTENANCE:
1. INSPECT WEEKLY, AND AFTER EACH STORM EVENT OR HEAVY USE.
2. RESHAPE AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOPDRESS WITH CLEAN STONE AS REQUIRED. MAINTAIN MINIMUM DEPTH THROUGHOUT CONSTRUCTION.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY SWEEPING OR BRUSHING. (DO NOT FLUSH AREA WITH WATER.)
5. REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

STABLIZED CONSTRUCTION ENTRANCE

NOT TO SCALE – PRACTICE 3.0



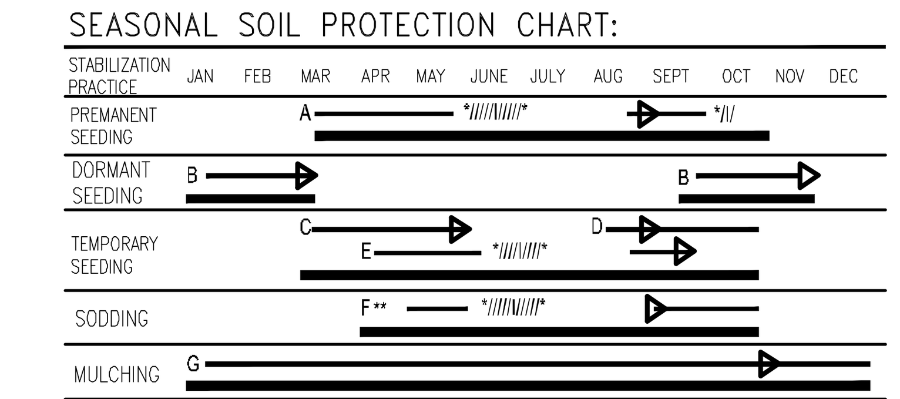
INSTALLATION:
1. THE BOTTOM 1' OF THE FENCE SHALL BE BURIED IN THE TRENCH ON THE UPSLOPE SIDE.
2. FENCE SHALL BE INSTALLED ALONG LEVEL GRADES, NOT ACROSS FLOW CHANNELS.
3. IF OPTIONAL SUPPORT WIRE FENCE IS USED, POST SPACING MAY BE EXTENDED TO 8' O.C.

MAINTENANCE:
1. INSPECT SILT FENCE PERIODICALLY (WEEKLY) AND AFTER EACH STORM EVENT.
2. IF FABRIC IS TORN OR DAMAGED OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE, OR IT IS CAUSING THE FABRIC TO BULGE.
4. TAKE CARE NOT TO UNDERMINE THE FENCE DURING SEDIMENT REMOVAL.
5. AFTER THE CONTRIBUTING AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND REMAINING SEDIMENT, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

SILT FENCE SECTION

NOT TO SCALE – PRACTICE 3.74

SEASONAL SOIL PROTECTION CHART:



A = KENTUCKY BLUEGRASS 40 LBS/ACRE; CREEPING RED FESCUE 40 LBS/ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 20 LBS/ACRE.

B = KENTUCKY BLUEGRASS 60 LBS/ACRE; CREEPING RED FESCUE 60 LBS/ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 30 LBS/ACRE.

C = SPRING OATS 3 BUSHEL/ACRE

D = WHEAT OR RYE 2 BUSHEL/ACRE

E = ANNUAL RYEGRASS 40 LBS/ACRE

F = SOD

G = STRAW MULCH 2 TONS/ACRE

/I/ IRRIGATION NEEDED DURING JUNE, JULY, AND/OR SEPTEMBER

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

SEASONAL SOIL SEEDING PROTECTION CHART

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REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

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PROJECT:
QDOBA MEXICAN EATS
MCCORDSVILLE

PROJECT LOCATION:
7419 W. 600 N.
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW 1/4, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

PLAN DATE: 09/22/23

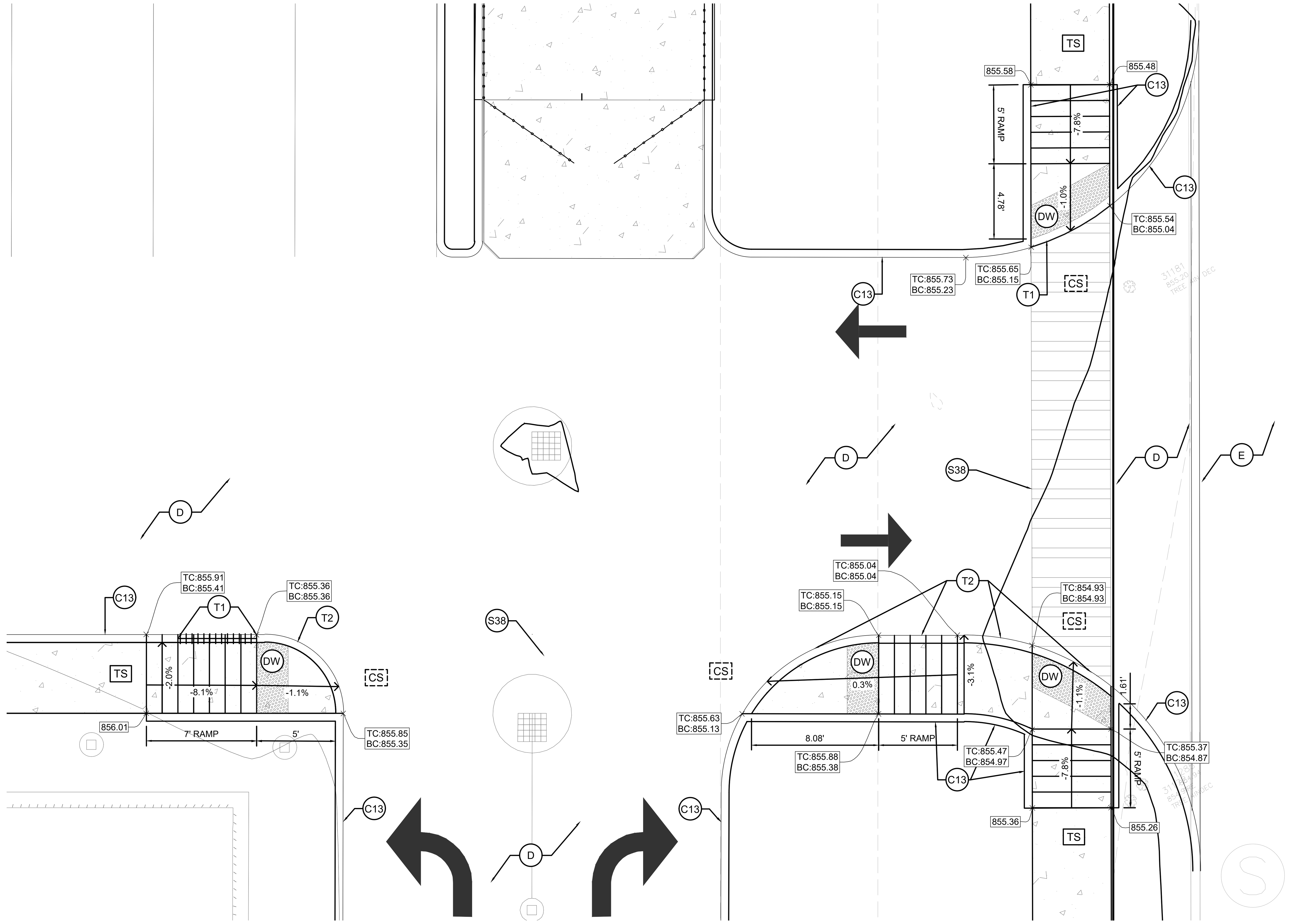
DESIGN:	CHECK:	DRAWN:
AF	AF	KG

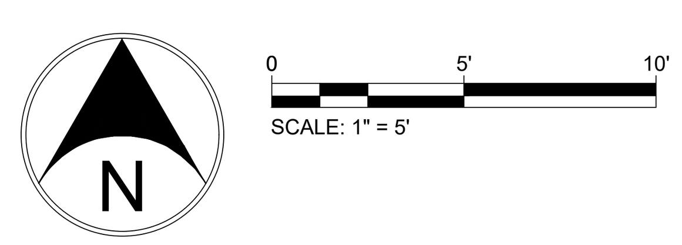
PROJECT NO. 2307011

SHEET NAME
EROSION CONTROL DETAILS

SHEET NO.
C505

PRINTED BY: Ashton Fritz
DATE: 9/21/2023 11:45 AM
SHEET SIZE, SCALE: ANSI FULL BLEED D (34.00 X 22.00 INCHES), 1:1
FILE NAME: F:\2023\2307011 - QDOBA RETAIL MCCORDSVILLE\03 CIVIL\PLANS\C501.DWG, LAYOUT: C505 EROSION CONTROL DETAILS





CURB RAMP BLOW-UP DIAGRAM NO. 1

CURB RAMP & ADA KEYNOTES:

- (##) KEYNOTE
- A CONCRETE PAVEMENT (SEE SITE PLANS FOR TYPE).
- D ASPHALT PAVEMENT (SEE SITE PLANS FOR TYPE).
- C13 CONCRETE 6 INCH "STRAIGHT" CURB.
- C15 CONCRETE CHAIRBACK CURB AND GUTTER.
- C19 DEPRESSED CURB AND GUTTER.
- (C# RW) INDICATES CORRESPONDING CURB SHALL ADHERE TO THE CORRESPONDING MUNICIPALITY RIGHT-OF-WAY DETAIL AND STANDARDS FOR THAT CURB TYPE, AS APPLICABLE.
- E EXISTING SIDEWALK / CURB / PAVEMENT TO REMAIN.
- F1 CONCRETE SIDEWALK.
- F2 INTEGRAL (MONOLITHIC) CURB AND WALK.
- (F# RW) INDICATES CORRESPONDING SIDEWALK OR INTEGRAL CURB AND WALK SHALL ADHERE TO THE CORRESPONDING MUNICIPALITY RIGHT-OF-WAY DETAIL AND STANDARDS, IF APPLICABLE.
- M MATCH EXISTING
  *CURB AND SIDEWALK CONSTRUCTION SHALL MEET AND CONNECT INTO EXISTING CURB AND WALK AT EXISTING JOINTS. FIELD ADJUST AS NECESSARY FOR THIS WALK BLEND TRANSITION. CROSS-SLOPE REQUIREMENTS SHALL BE MAINTAINED. THE LONGITUDINAL / RUNNING SLOPE FOR THIS WALK BLEND TRANSITION SHALL EITHER MATCH THE EXISTING ROADWAY SLOPE AND / OR SHALL HAVE A MAXIMUM SLOPE OF 5.00%. IF THE WALK BLEND TRANSITION EXCEEDS TWO (2) JOINT PANELS OR 10 LINEAR FEET, CONTACT ENGINEER FOR GUIDANCE.
- S37 ADA BLUE PAVEMENT STRIPING, TYP.
- S38 CROSSWALK PAVEMENT STRIPING / MARKINGS. SEE DETAILS. CROSSWALK PAVEMENT MARKINGS TO MEET INDOT SPECIFICATIONS AND THE INDIANA MUTCD MANUAL.
  (S38)
- T1 CURB TAPER.
- T2 FLUSH CURB FOR CURB RAMP.

CURB RAMP & ADA LEGEND:

- #' RAMP — ADA / CURB RAMP. "#" INDICATES RAMP LENGTH. SEE RAMP BLOWUP DIAGRAMS, INDOT DETAILS, AND NOTES BELOW FOR SLOPE REQUIREMENTS.
- (##) "##" INDICATES THE CORRESPONDING INDOT RAMP STANDARD DRAWINGS - E 604-SWCR- **##**
- (DW) DETECTABLE WARNING SURFACE.
- TS TURNING SPACE. SLOPE IN ANY DIRECTION SHALL NOT EXCEED 2.00%.
- CS CLEAR SPACE. REFER TO INDOT STANDARD DRAWINGS.
- FS FLARED SIDE. SEE INDOT STANDARD DRAWINGS. MAXIMUM 10.00% SLOPE.
- HANDICAP PARKING SPACE. SLOPE IN ANY DIRECTION FOR PARKING SPACE SHALL NOT EXCEED 2.00%. SEE DETAILS FOR PAVEMENT MARKINGS.
- VEHICLE PARKING STOP AS REQUIRED FOR SITE.
- (X1) HANDICAP PARKING SIGN AS REQUIRED.
- #.#% GRADE SLOPE WITH SLOPE PERCENT.

SIDEWALK AND RAMP SLOPE REQUIREMENTS:

CROSS-SLOPE:

- DESIRABLE = 1.50%
- DESIGN = 1.50% TO 1.80%
- MAXIMUM ALLOWED = 2.00%

LONGITUDINAL / RAMP / RUNNING SLOPE:

- DESIRABLE = 7.50%
- DESIGN = 7.50% TO 8.00%
- MAXIMUM ALLOWED = 8.33%

ADA PARKING STALL AND ACCESSIBLE SPACE REQUIREMENTS:

- SLOPE IN ANY DIRECTION SHALL NOT EXCEED 2.00%

**RAMP AND ADA PARKING STALL DESIGN AND CONSTRUCTION SHALL MEET INDOT SPECIFICATIONS, PROWAG, AND ADA STANDARDS.

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HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW $\frac{1}{4}$, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

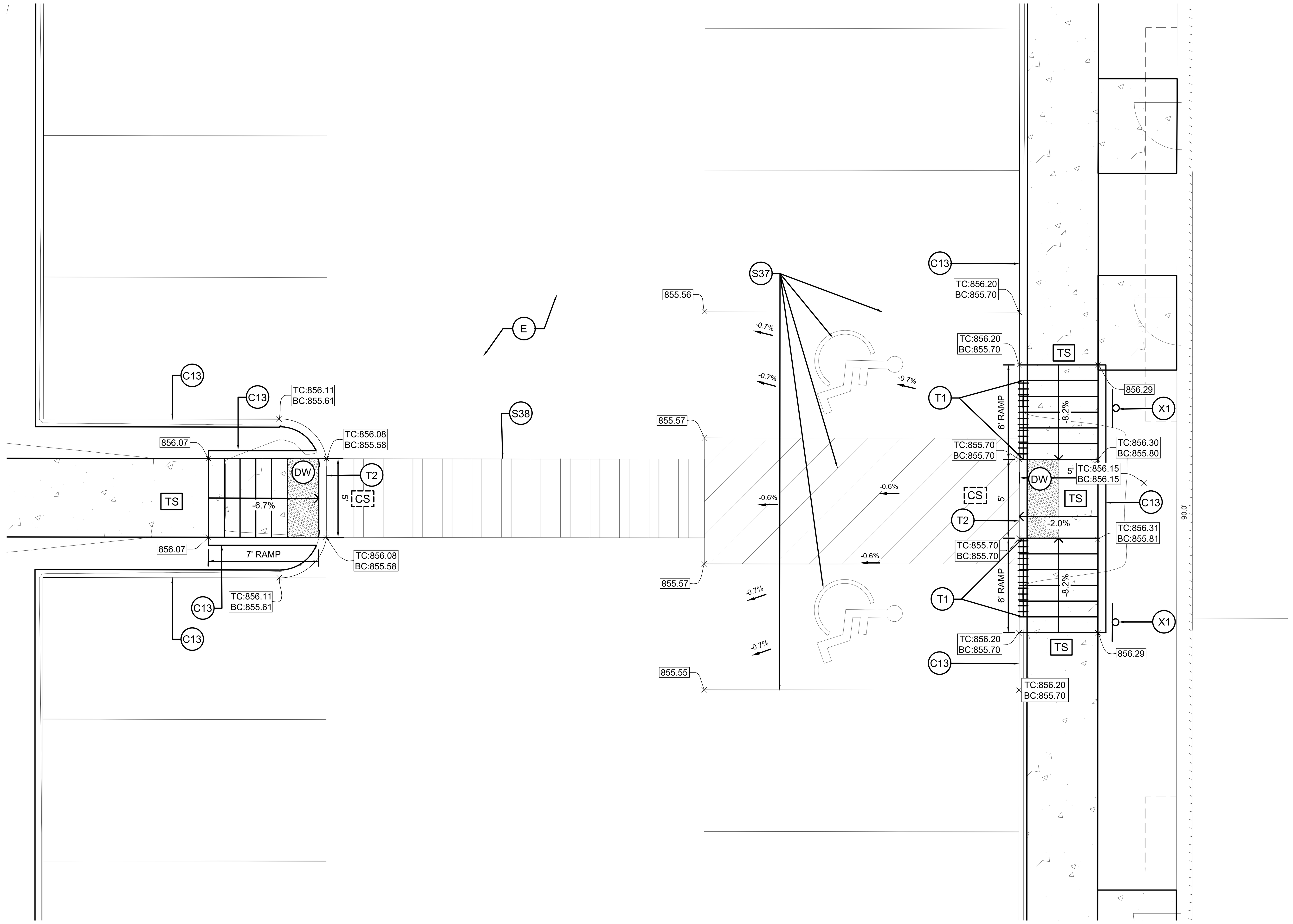
PLAN DATE: 09/22/23

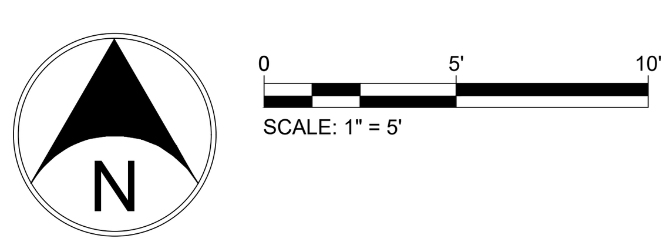
DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2307011

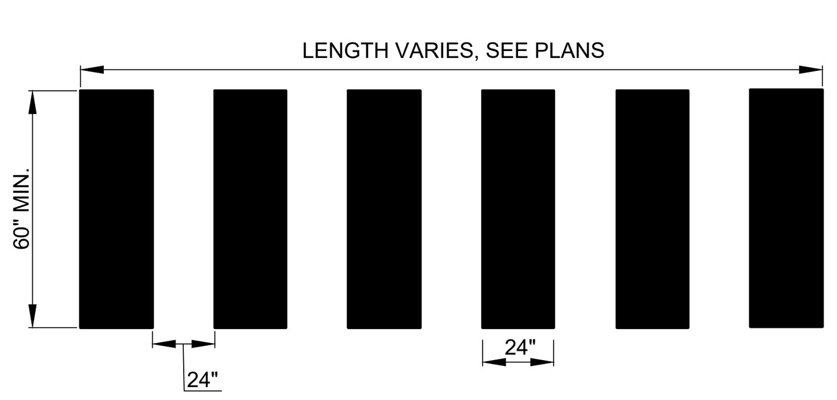
SHEET NAME
CURB RAMP & ADA BLOW-UP DIAGRAMS

SHEET NO.
C601





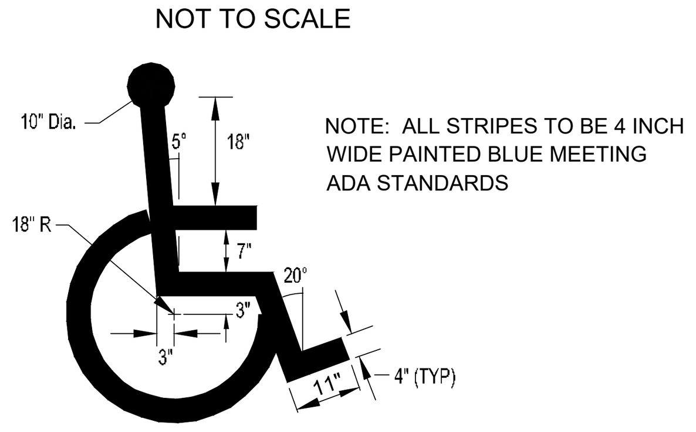
CURB RAMP BLOW-UP DIAGRAM NO. 2



NOTES:
CROSS-WALK MARKINGS / STRIPING SHALL BE PERFORMED PLASTIC OR THERMOPLASTIC, COLOR WHITE.

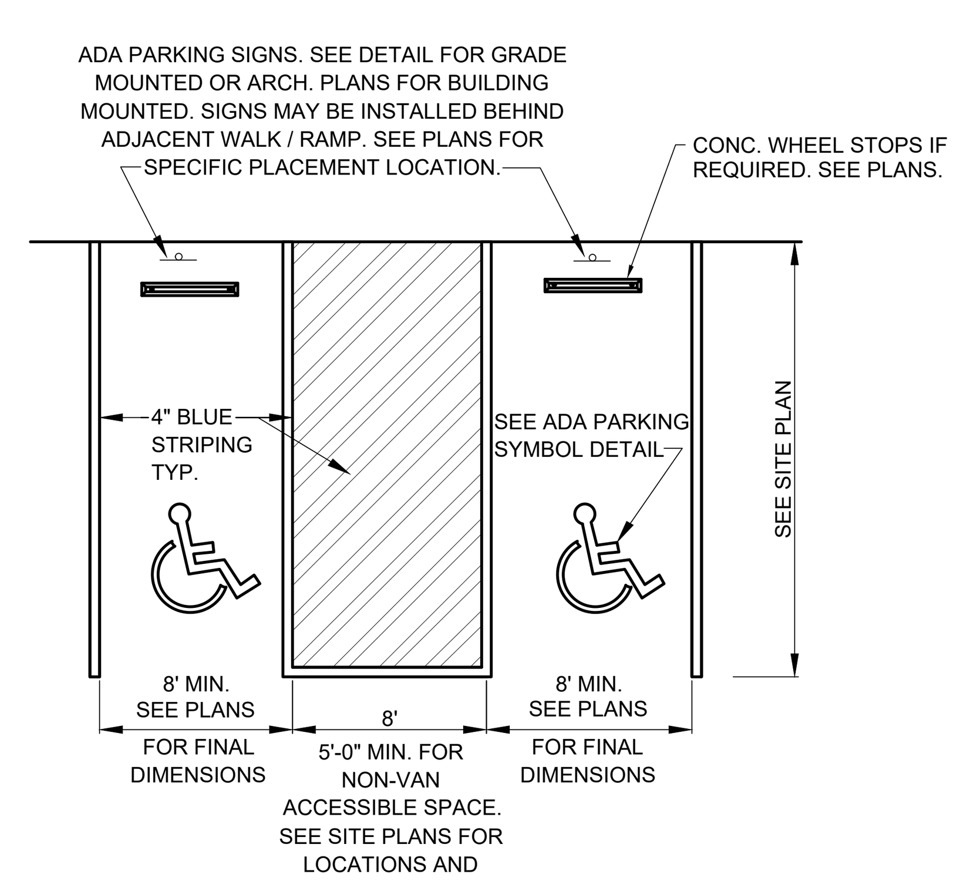
FOR FURTHER INFORMATION REFER TO THE INDIANA MUTCD MANUAL AND INDOT STANDARD DRAWINGS AND SPECIFICATIONS. ALL PAVEMENT MARKINGS AND STRIPING SHALL MEET INDOT SPECIFICATIONS.

CROSSWALK PAVEMENT MARKINGS
NOT TO SCALE



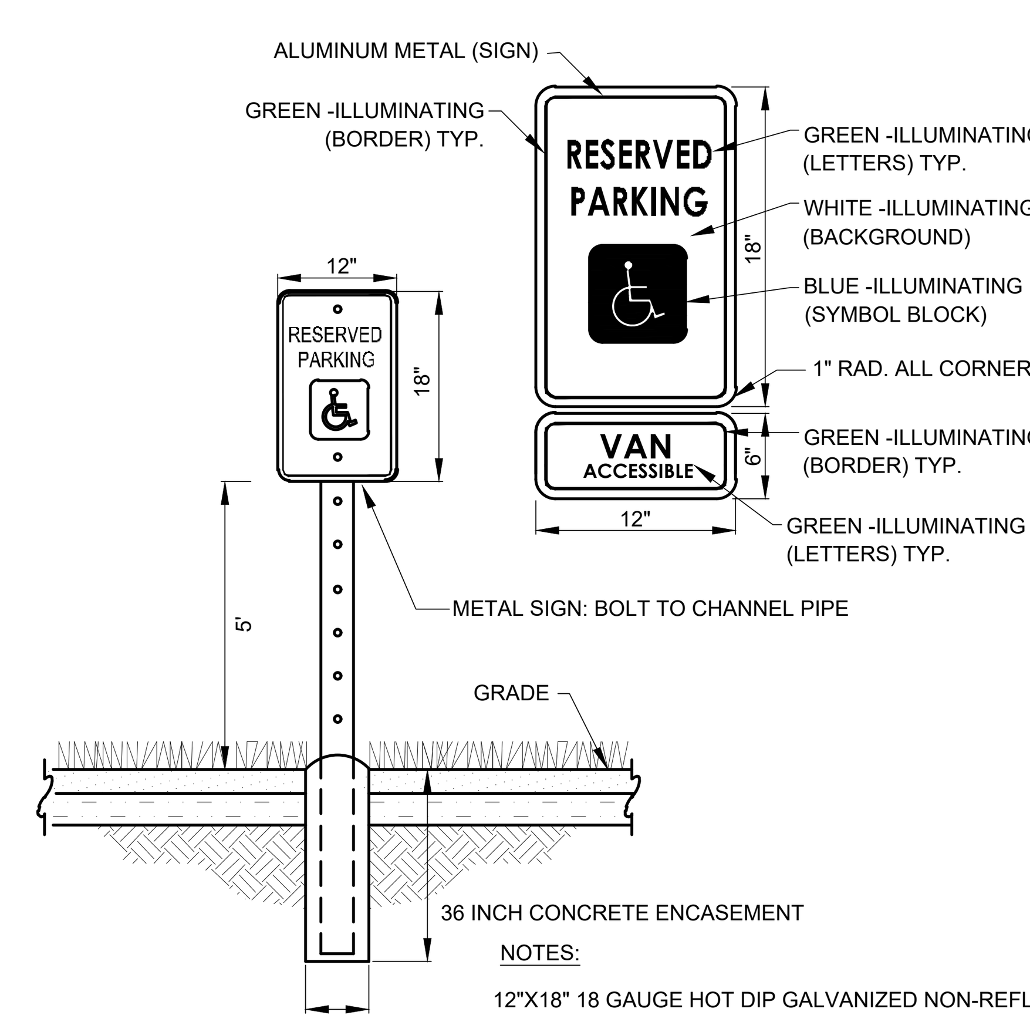
NOTE: ALL STRIPES TO BE 4 INCH WIDE PAINTED BLUE MEETING ADA STANDARDS

"ADA" PARKING SYMBOL DETAIL
NOT TO SCALE



NOTES:
- ALL PAVEMENT MARKINGS AND STRIPING SHALL BE BLUE PAINT AND MEETING ADA STANDARDS AND SPECIFICATIONS.
- SLOPES IN ANY DIRECTION MAY NOT EXCEED 2.00%.

ADA PARKING STALLS DETAIL
NOT TO SCALE



NOTES:
12"X18" 18 GAUGE HOT DIP GALVANIZED NON-REFLECTIVE

"VAN ACCESSIBLE" SIGN ONLY NEEDED FOR VAN ACCESSIBLE SPACES

ADA PARKING SIGN DETAIL
NOT TO SCALE

CURB RAMP & ADA KEYNOTES:

##	KEYNOTE
A	CONCRETE PAVEMENT (SEE SITE PLANS FOR TYPE).
D	ASPHALT PAVEMENT (SEE SITE PLANS FOR TYPE).
C13	CONCRETE 6 INCH "STRAIGHT" CURB.
C15	CONCRETE CHAIRBACK CURB AND GUTTER.
C19	DEPRESSED CURB AND GUTTER.
C# RW	INDICATES CORRESPONDING CURB SHALL ADHERE TO THE CORRESPONDING MUNICIPALITY RIGHT-OF-WAY DETAIL AND STANDARDS FOR THAT CURB TYPE, AS APPLICABLE.
E	EXISTING SIDEWALK / CURB / PAVEMENT TO REMAIN.
F1	CONCRETE SIDEWALK.
F2	INTEGRAL (MONOLITHIC) CURB AND WALK.
F# RW	INDICATES CORRESPONDING SIDEWALK OR INTEGRAL CURB AND WALK SHALL ADHERE TO THE CORRESPONDING MUNICIPALITY RIGHT-OF-WAY DETAIL AND STANDARDS, IF APPLICABLE.
M	MATCH EXISTING *CURB AND SIDEWALK CONSTRUCTION SHALL MEET AND CONNECT INTO EXISTING CURB AND WALK AT EXISTING JOINTS. FIELD ADJUST AS NECESSARY FOR THIS WALK BLEND TRANSITION. CROSS-SLOPE REQUIREMENTS SHALL BE MAINTAINED. THE LONGITUDINAL / RUNNING SLOPE FOR THIS WALK BLEND TRANSITION SHALL EITHER MATCH THE EXISTING ROADWAY SLOPE AND / OR SHALL HAVE A MAXIMUM SLOPE OF 5.00%. IF THE WALK BLEND TRANSITION EXCEEDS TWO (2) JOINT PANELS OR 10 LINEAR FEET, CONTACT ENGINEER FOR GUIDANCE.
S37	ADA BLUE PAVEMENT STRIPING, TYP.
S38	CROSSWALK PAVEMENT STRIPING / MARKINGS. SEE DETAILS. CROSSWALK PAVEMENT MARKINGS TO MEET INDOT SPECIFICATIONS AND THE INDIANA MUTCD MANUAL.
T1	CURB TAPER.
T2	FLUSH CURB FOR CURB RAMP.

CURB RAMP & ADA LEGEND:

#' RAMP	ADA / CURB RAMP. "#" INDICATES RAMP LENGTH. SEE RAMP BLOWUP DIAGRAMS, INDOT DETAILS, AND NOTES BELOW FOR SLOPE REQUIREMENTS.
##	"##" INDICATES THE CORRESPONDING INDOT RAMP STANDARD DRAWINGS - E 604-SWCR- ##
DW	DETECTABLE WARNING SURFACE.
TS	TURNING SPACE. SLOPE IN ANY DIRECTION SHALL NOT EXCEED 2.00%.
CS	CLEAR SPACE. REFER TO INDOT STANDARD DRAWINGS.
FS	FLARED SIDE. SEE INDOT STANDARD DRAWINGS. MAXIMUM 10.00% SLOPE.
	HANDICAP PARKING SPACE. SLOPE IN ANY DIRECTION FOR PARKING SPACE SHALL NOT EXCEED 2.00%. SEE DETAILS FOR PAVEMENT MARKINGS.
	VEHICLE PARKING STOP AS REQUIRED FOR SITE.
X1	HANDICAP PARKING SIGN AS REQUIRED.
#.#%	GRADE SLOPE WITH SLOPE PERCENT.

SIDEWALK AND RAMP SLOPE REQUIREMENTS:

CROSS-SLOPE:
- DESIRABLE = 1.50%
- DESIGN = 1.50% TO 1.80%
- MAXIMUM ALLOWED = 2.00%

LONGITUDINAL / RAMP / RUNNING SLOPE:
- DESIRABLE = 7.50%
- DESIGN = 7.50% TO 8.00%
- MAXIMUM ALLOWED = 8.33%

ADA PARKING STALL AND ACCESSIBLE SPACE REQUIREMENTS:
- SLOPE IN ANY DIRECTION SHALL NOT EXCEED 2.00%

**RAMP AND ADA PARKING STALL DESIGN AND CONSTRUCTION SHALL MEET INDOT SPECIFICATIONS, PROWAG, AND ADA STANDARDS.

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QDOBA MEXICAN EATS
MCCORDSVILLE

PROJECT LOCATION:
7419 W. 600 N.
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW 1/4, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

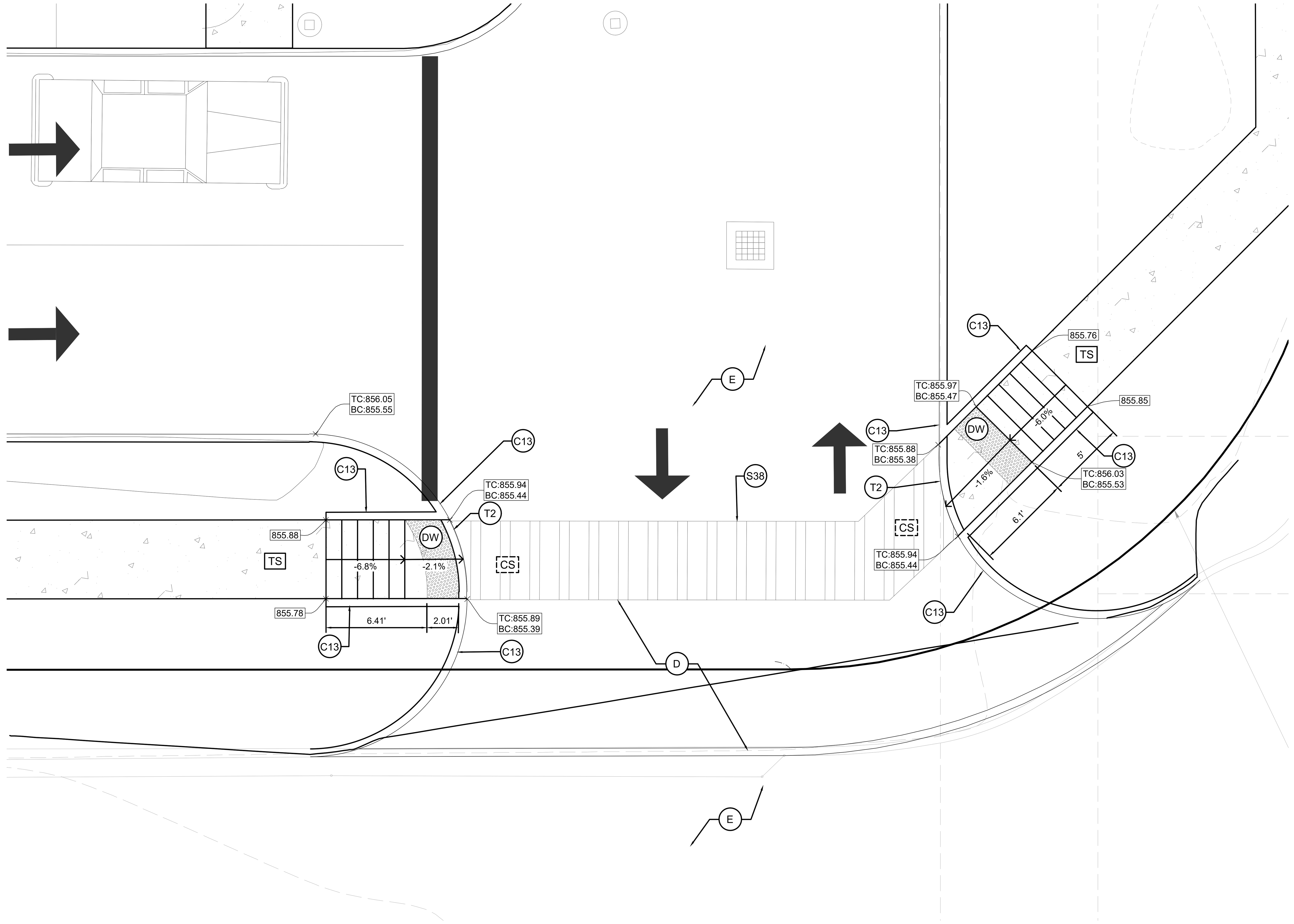
PLAN DATE: 09/22/23

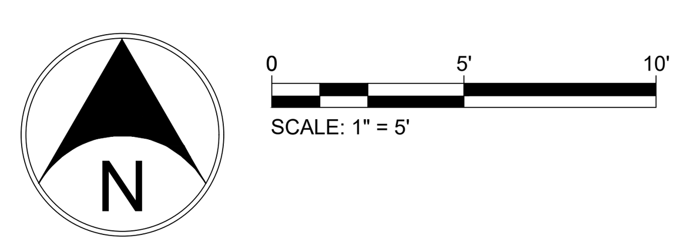
DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2307011

SHEET NAME
CURB RAMP & ADA BLOW-UP DIAGRAMS

SHEET NO.
C602





CURB RAMP BLOW-UP DIAGRAM NO. 3

CURB RAMP & ADA KEYNOTES:

##	KEYNOTE
A	CONCRETE PAVEMENT (SEE SITE PLANS FOR TYPE).
D	ASPHALT PAVEMENT (SEE SITE PLANS FOR TYPE).
C13	CONCRETE 6 INCH "STRAIGHT" CURB.
C15	CONCRETE CHAIRBACK CURB AND GUTTER.
C19	DEPRESSED CURB AND GUTTER.
C# RW	INDICATES CORRESPONDING CURB SHALL ADHERE TO THE CORRESPONDING MUNICIPALITY RIGHT-OF-WAY DETAIL AND STANDARDS FOR THAT CURB TYPE, AS APPLICABLE.
E	EXISTING SIDEWALK / CURB / PAVEMENT TO REMAIN.
F1	CONCRETE SIDEWALK.
F2	INTEGRAL (MONOLITHIC) CURB AND WALK.
F# RW	INDICATES CORRESPONDING SIDEWALK OR INTEGRAL CURB AND WALK SHALL ADHERE TO THE CORRESPONDING MUNICIPALITY RIGHT-OF-WAY DETAIL AND STANDARDS, IF APPLICABLE.
M	MATCH EXISTING *CURB AND SIDEWALK CONSTRUCTION SHALL MEET AND CONNECT INTO EXISTING CURB AND WALK AT EXISTING JOINTS. FIELD ADJUST AS NECESSARY FOR THIS WALK BLEND TRANSITION. CROSS-SLOPE REQUIREMENTS SHALL BE MAINTAINED. THE LONGITUDINAL / RUNNING SLOPE FOR THIS WALK BLEND TRANSITION SHALL EITHER MATCH THE EXISTING ROADWAY SLOPE AND / OR SHALL HAVE A MAXIMUM SLOPE OF 5.00%. IF THE WALK BLEND TRANSITION EXCEEDS TWO (2) JOINT PANELS OR 10 LINEAR FEET, CONTACT ENGINEER FOR GUIDANCE.
S37	ADA BLUE PAVEMENT STRIPING, TYP.
S38	CROSSWALK PAVEMENT STRIPING / MARKINGS. SEE DETAILS. CROSSWALK PAVEMENT MARKINGS TO MEET INDOT SPECIFICATIONS AND THE INDIANA MUTCD MANUAL.
T1	CURB TAPER.
T2	FLUSH CURB FOR CURB RAMP.

CURB RAMP & ADA LEGEND:

#' RAMP	ADA / CURB RAMP. "#" INDICATES RAMP LENGTH. SEE RAMP BLOWUP DIAGRAMS, INDOT DETAILS, AND NOTES BELOW FOR SLOPE REQUIREMENTS.
##	"##" INDICATES THE CORRESPONDING INDOT RAMP STANDARD DRAWINGS - E 604-SWCR- **##**
DW	DETECTABLE WARNING SURFACE.
TS	TURNING SPACE. SLOPE IN ANY DIRECTION SHALL NOT EXCEED 2.00%.
CS	CLEAR SPACE. REFER TO INDOT STANDARD DRAWINGS.
FS	FLARED SIDE. SEE INDOT STANDARD DRAWINGS. MAXIMUM 10.00% SLOPE.
	HANDICAP PARKING SPACE. SLOPE IN ANY DIRECTION FOR PARKING SPACE SHALL NOT EXCEED 2.00%. SEE DETAILS FOR PAVEMENT MARKINGS.
	VEHICLE PARKING STOP AS REQUIRED FOR SITE.
X1	HANDICAP PARKING SIGN AS REQUIRED.
#.#%	GRADE SLOPE WITH SLOPE PERCENT.

SIDEWALK AND RAMP SLOPE REQUIREMENTS:

CROSS-SLOPE:

- DESIRABLE = 1.50%
- DESIGN = 1.50% TO 1.80%
- MAXIMUM ALLOWED = 2.00%

LONGITUDINAL / RAMP / RUNNING SLOPE:

- DESIRABLE = 7.50%
- DESIGN = 7.50% TO 8.00%
- MAXIMUM ALLOWED = 8.33%

ADA PARKING STALL AND ACCESSIBLE SPACE REQUIREMENTS:

- SLOPE IN ANY DIRECTION SHALL NOT EXCEED 2.00%

**RAMP AND ADA PARKING STALL DESIGN AND CONSTRUCTION SHALL MEET INDOT SPECIFICATIONS, PROWAG, AND ADA STANDARDS.

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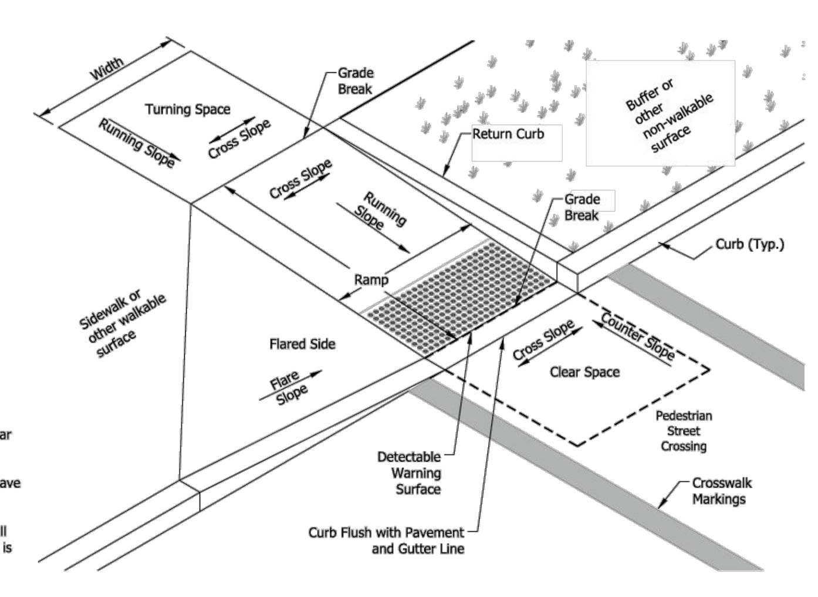
705 E. MAIN ST.
WESTFIELD, IN 46074

PLAN DATE:	09/22/23	
DESIGN: AF	CHECK: AF	DRAWN: KG
PROJECT NO.	2307011	
SHEET NAME	CURB RAMP & ADA BLOW-UP DIAGRAMS	
SHEET NO.	C603	

INDEX	
SHEET NO.	SUBJECT
1	Curb Ramp Drawing Index and General Notes
2-3	Perpendicular Curb Ramp Typical Placement
4	Perpendicular Curb Ramp Component Details
5	One-Way-Directional Perpendicular Curb Ramp Typical Placement
6	One-Way-Directional Perpendicular Curb Ramp Component Details
7	Parallel Curb Ramps Typical Placement
8	Parallel Curb Ramp Component Details
9	Blended Transition Curb Ramp, Depressed Curb Ramp and Diagonal Curb Ramp Typical Placement
10	Blended Transition Curb Ramp Component Details
11	Median Cut-Through and Median Perpendicular Curb Ramp Typical Placement
12-13	Detectable Warning Surface Placement and Configuration
14	Detectable Warning Surface Details

GENERAL NOTES:

1. All slopes are absolute rather than relative to the sidewalk or roadway grade. Slopes at least 0.50% less than the maximum are preferred.
2. Ramp or Blended Transition. A ramp or blended transition shall be used to lower or raise the sidewalk to connect with the street or highway.
3. Turning Space. A turning space shall be provided at the top of a perpendicular ramp, bottom of a parallel ramp, or where the pedestrian travel requires a change in direction. A common turning space may be shared by adjacent ramps. The turning space shall have a minimum clear dimension of 4 ft x 4 ft. Where the turning space is constrained at the back of the sidewalk by a curb, retaining wall, building, or feature over 2 inches in height, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.
4. Flared Side. A flared side shall be used adjacent to a walkable surface. A flared side may be used adjacent to a non-walkable surface. A flared side shall have a maximum slope of 10.00% measured parallel to the back of the curb.
5. Return Curb. A return curb is placed perpendicular to the roadway curb. A return curb may be used adjacent to a non-walkable surface. A return curb shall not be used adjacent to a walkable surface. The return curb may be omitted where the non-walkable surface is flared and the curb adjacent the roadway is tapered to meet the flush curb at the bottom of the ramp.
6. Clear Space. A clear space shall be provided beyond the bottom grade break of a curb ramp wholly contained within the crosswalk and wholly outside the parallel vehicular travel path. The clear space shall have a minimum clear dimension of 4 ft x 4 ft.
7. Detectable Warning Surface. A detectable warning surface shall consist of truncated domes and be placed at each street, highway, or railroad crossing. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and be placed the entire width of a ramp, blended transition, or turning space.
8. Running Slope. The running slope of a ramp, blended transition, or turning space shall be measured parallel to the direction of pedestrian travel.
   a. A running slope of 2.00% or less is considered level.
   b. A ramp shall have a maximum running slope of 8.33% but shall not require a ramp length to exceed 15 ft.
   c. A blended transition shall have a maximum running slope of 5.00%.
   d. A turning space shall have a maximum running slope of 2.00%.
9. Width. Unless otherwise noted, minimum width of a ramp, blended transition, or turning space, excluding flared sides or return curb, shall be 4 ft.
10. Grade Break. A grade break at the top and bottom of a ramp, blended transition, or turning space shall be perpendicular to the running slope. Grade breaks shall not be within the ramp, blended transition, turning space, or detectable warning surface. Grade breaks shall be flush. Vertical discontinuities shall not be greater than 1/2 in. Where a discontinuity is greater than 1/4 in. the surface shall be beveled with a slope not steeper than 1V:2H.
11. Cross Slope Exceptions. The cross slope of a ramp, blended transition, or turning space shall be measured perpendicular to the direction of pedestrian travel.
   a. The maximum cross slope at a pedestrian street crossing without yield or stop control shall be 5.00%.
   b. The maximum cross slope at a pedestrian street crossing with yield or stop control shall be 2.00%.
   c. The maximum cross slope at a midblock crossing shall be the established grade of the adjacent roadway.
12. Counter Slope. A counter slope is the cross slope of the gutter or street adjacent the running slope of the ramp, blended transition, or turning space. See Standard Drawing E 604-SWCR-14 for counter slope details.
13. Objects such as a utility cover, vault frame, and grating shall be placed outside the curb ramp.
14. Curb ramps shall be placed within the marked crosswalk area.
15. Drainage inlets should be located uphill from a curb ramp to prevent ponding in the path of pedestrian travel.



TYPICAL CURB RAMP COMPONENTS

INDIANA DEPARTMENT OF TRANSPORTATION

CURB RAMP DRAWING INDEX AND GENERAL NOTES

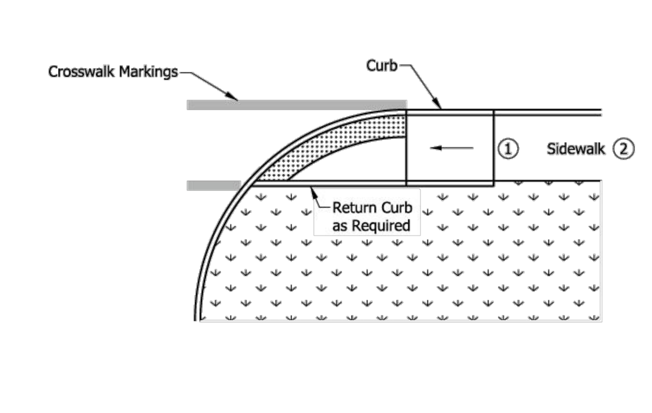
SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-01

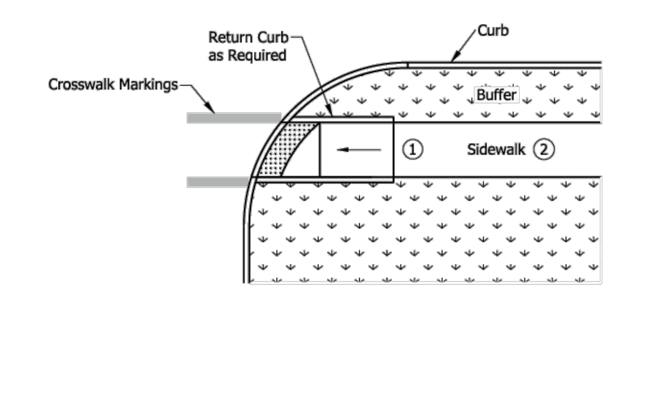
ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/20/18
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/25/18
CHIEF ENGINEER DATE



ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP ADJACENT CURB



ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP WITH BUFFER

NOTES:

(1) A turning space is not required at the top of the ramp for a one-way directional perpendicular curb ramp.

(2) Where there is no buffer between the sidewalk and curb the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SDWK for sidewalk details.

LEGEND:
- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface

INDIANA DEPARTMENT OF TRANSPORTATION

ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP TYPICAL PLACEMENT

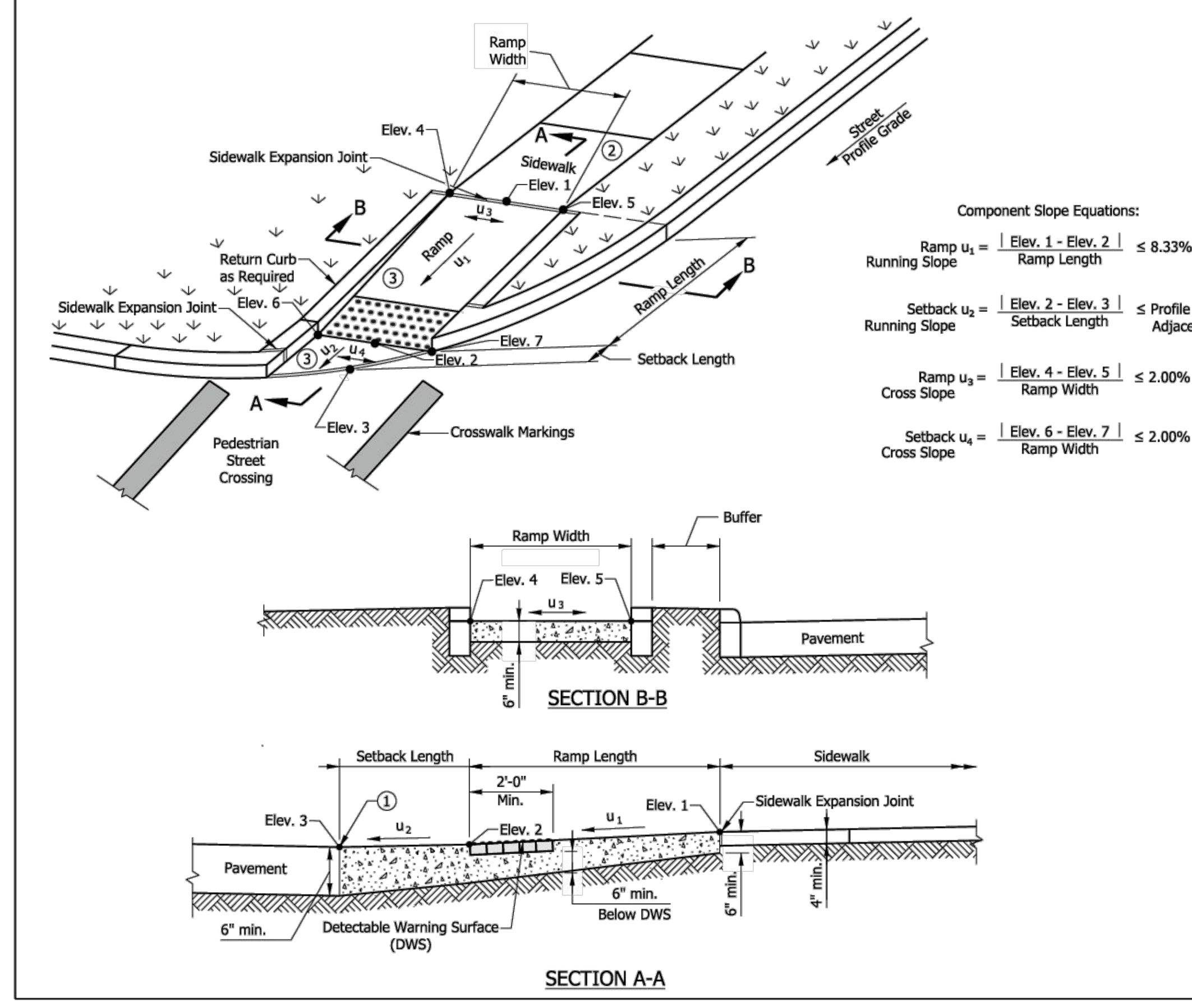
SEPTEMBER 2016

STANDARD DRAWING NO. E 604-SWCR-05

ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/15/16
DESIGN STANDARDS ENGINEER DATE

/s/ Mark A. Miller 03/18/16
CHIEF ENGINEER DATE



SECTION B-B

SECTION A-A

NOTES:

(1) The bottom edge of the ramp or setback and top of curb shall be flush with the edge of adjacent pavement and gutter line.

(2) A turning space is not required at the top of the ramp for a one-way directional perpendicular curb ramp.

(3) Curb ramp surface shall be coarse broomed transverse to the running slope.

(4) See Standard Drawing E 604-SWCR-01 for cross slope exceptions.

5. See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.

6. See Standard Drawing E 604-CCSJ-01 for sidewalk expansion joint details.

LEGEND:
- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface

INDIANA DEPARTMENT OF TRANSPORTATION

ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP COMPONENT DETAILS

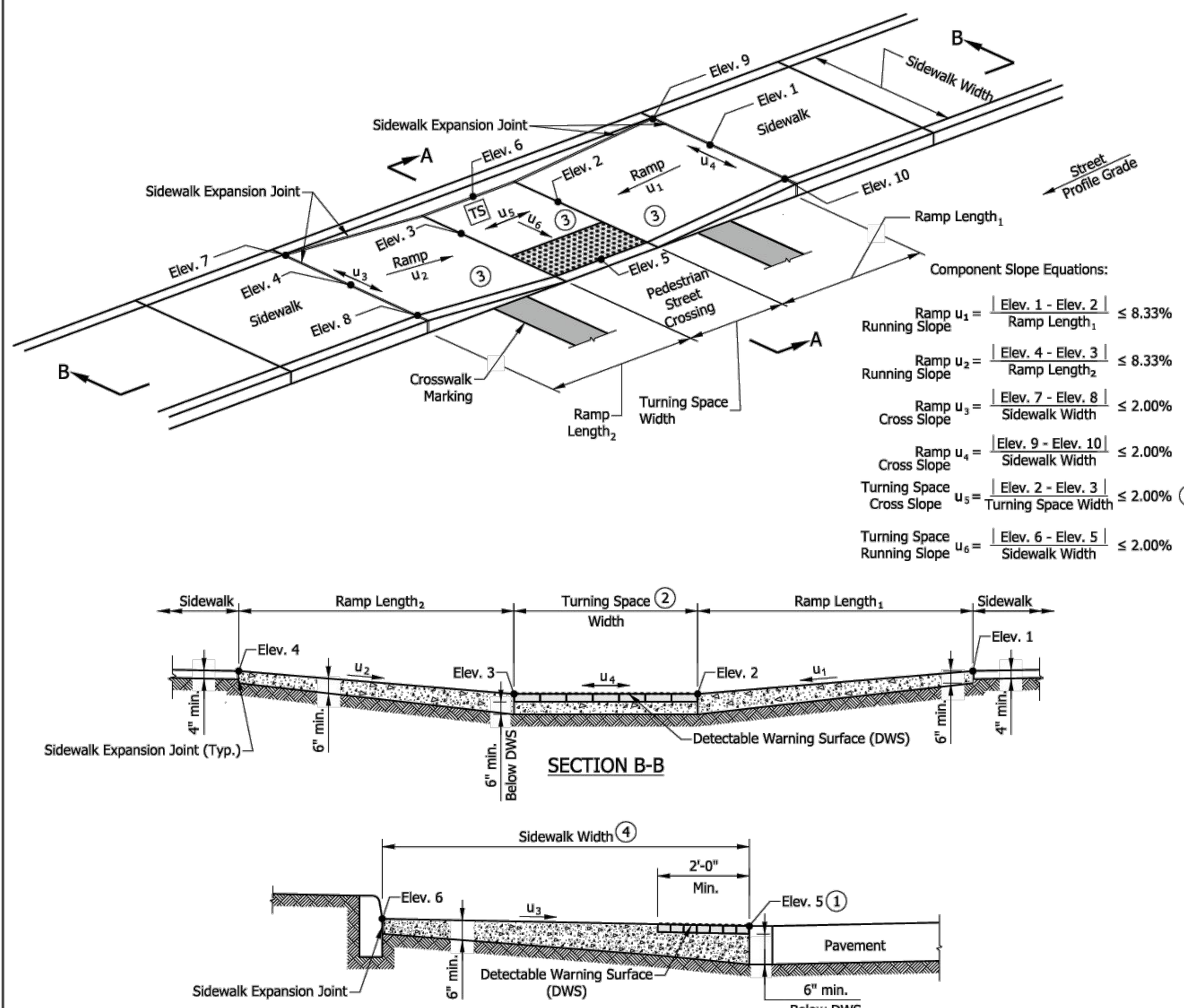
SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-06

ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/29/18
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/25/18
CHIEF ENGINEER DATE



SECTION B-B

SECTION A-A

NOTES:

(1) The bottom edge of the turning space and top of curb shall be flush with the edge of adjacent pavement and gutter line.

(2) The turning space shall have a minimum clear dimension of 4 ft x 4 ft and a running slope of 2.00% maximum. Where the turning space is constrained at the back of the sidewalk, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.

(3) Curb ramp surface shall be coarse broomed transverse to the running slope.

(4) Where there is no buffer between the sidewalk and curb, the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SDWK for sidewalk details.

(5) See Standard Drawing E 604-SWCR-01 for cross slope exceptions.

6. See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.

7. See Standard Drawing E 604-CCSJ-01 for sidewalk expansion joint details.

LEGEND:
- Ramp
- Detectable Warning Surface
- TS Turning Space

INDIANA DEPARTMENT OF TRANSPORTATION

PARALLEL CURB RAMP COMPONENT DETAILS

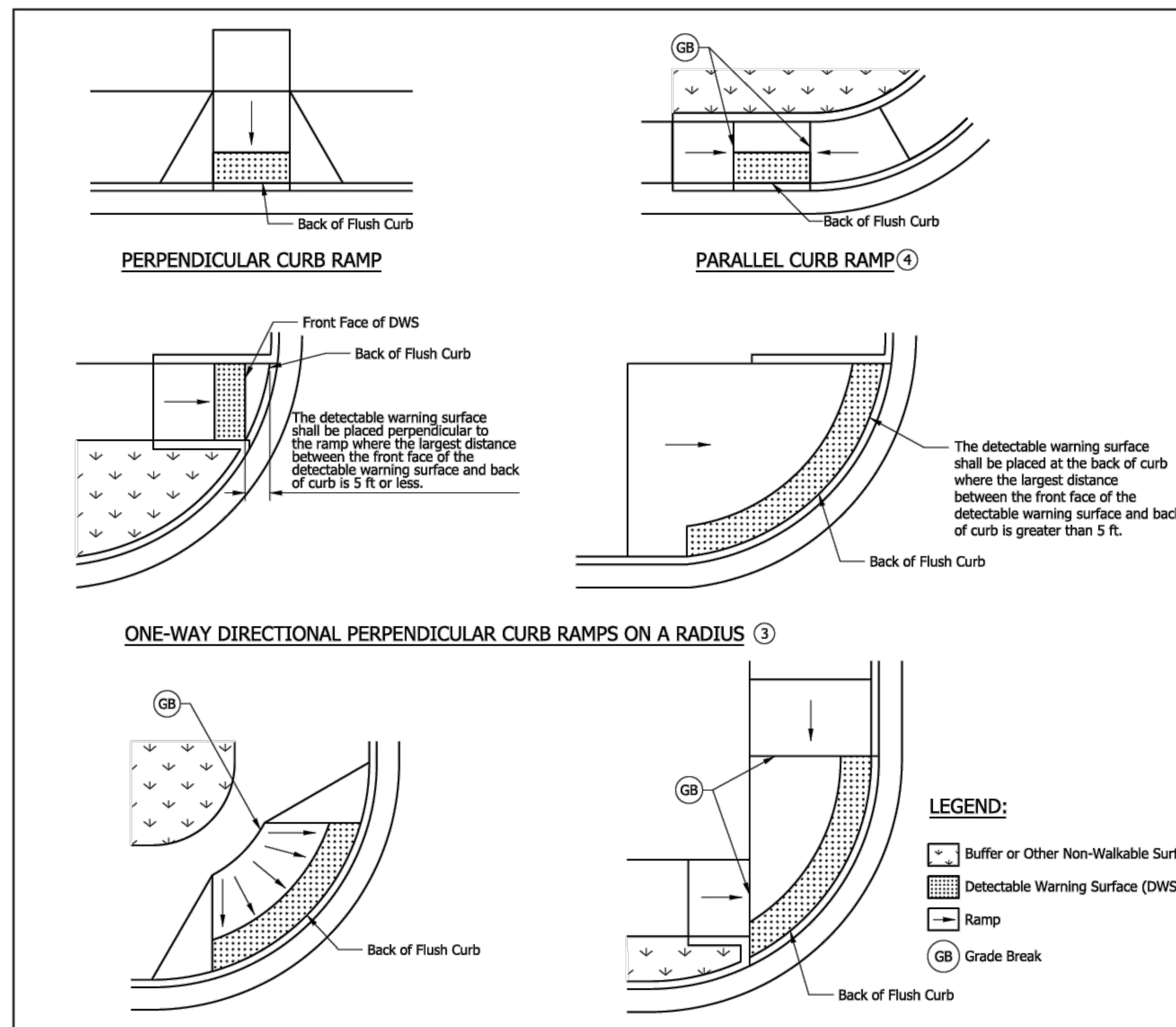
SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-08

ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/29/18
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/25/18
CHIEF ENGINEER DATE



PERPENDICULAR CURB RAMP

PARALLEL CURB RAMP (4)

ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMPS ON A RADIUS (3)

BLENDED TRANSITION CURB RAMP (5)

DEPRESSED CORNER CURB RAMP (5)

NOTES:

1. A detectable warning surface shall be placed at each street, highway, or railroad crossing. See Standard Drawing E 604-SDWK-03 for a detectable warning surface placement at a sidewalk driveway crossing.

2. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and extend the full width as shown. The detectable warning surface shall not be placed across a grade break.

(3) Where the distance from the face of the detectable warning surface is 5 ft or less from the back of curb, the detectable warning surface shall be placed perpendicular to the ramp. Where the distance from the face of the detectable warning surface is more than 5 ft from the back of curb, the detectable warning surface shall be placed at the back of curb as shown or in an alternate placement configuration. See Standard Drawing E 604-SWCR-13 for alternate detectable warning surface placement.

(4) The detectable warning surface on a parallel curb ramp shall be placed on the turning space at the flush transition between the street and turning space at the back of curb.

(5) The detectable warning surface on a blended transition or depressed corner shall be placed at the back of curb as shown or in an alternate placement configuration. See Standard Drawing E 604-SWCR-13 for alternate detectable warning surface placement.

6. See Standard Drawing E 604-SWCR-14 for detectable warning surface details.

LEGEND:
- Buffer or Other Non-Walkable Surface
- Detectable Warning Surface (DWS)
- Ramp
- GB Grade Break

INDIANA DEPARTMENT OF TRANSPORTATION

DETECTABLE WARNING SURFACE PLACEMENT AND CONFIGURATION

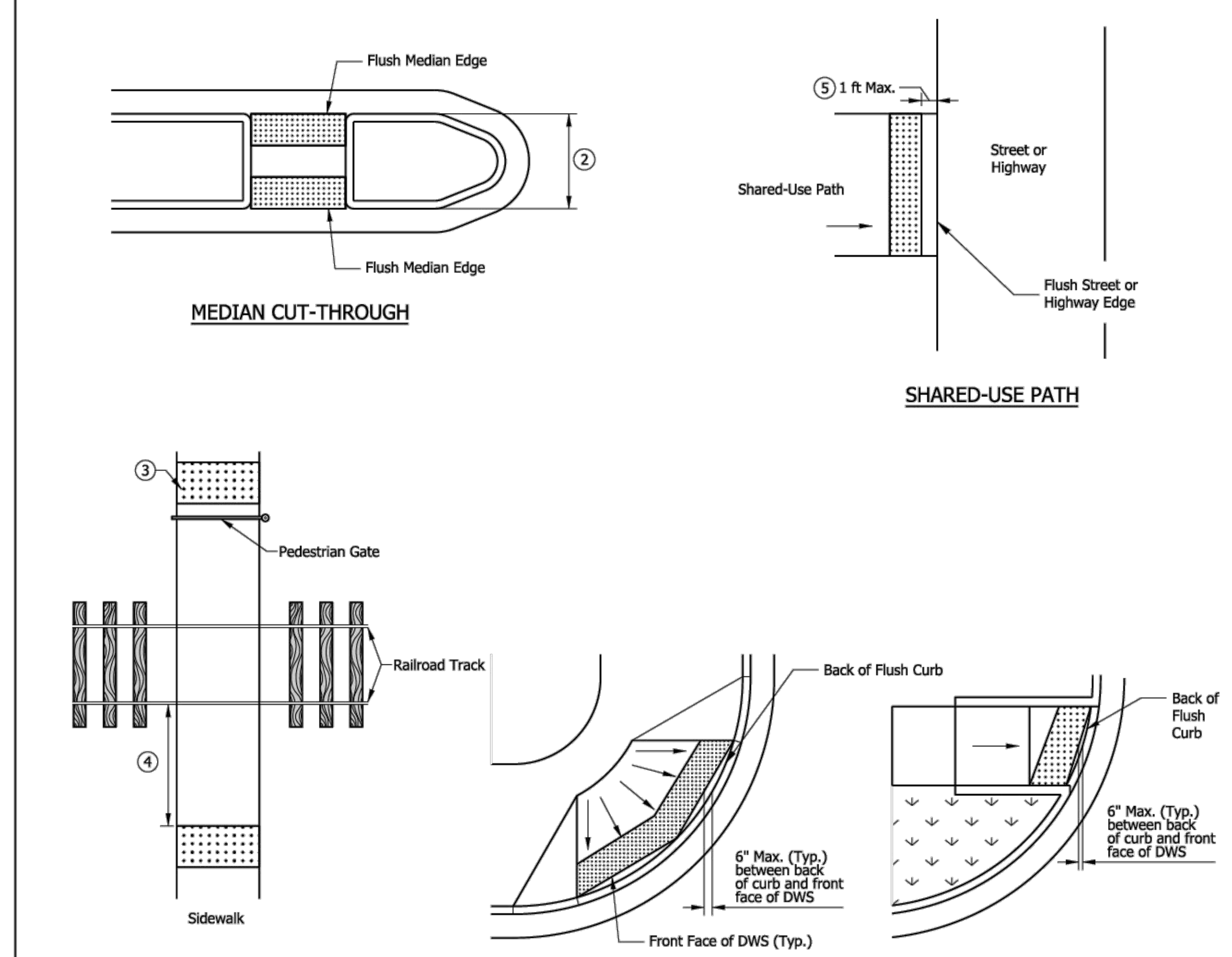
SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-12

ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/29/18
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/25/18
CHIEF ENGINEER DATE



MEDIAN CUT-THROUGH

SHARED-USE PATH

RAILROAD CROSSING

ALTERNATE DETECTABLE WARNING SURFACE PLACEMENT (6)

NOTES:

1. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and extend the full width as shown. The detectable warning surface shall not be placed across a grade break.

(2) The detectable warning surface on a median cut-through shall be placed at the flush transition between the street and median cut-through. Where a median is less than 6 ft, a detectable warning surface shall not be placed.

(3) Where a pedestrian gate is provided at a railroad crossing, the detectable warning surface shall be placed on the side of the gate opposite the railroad crossing.

(4) The edge of the detectable warning surface nearest to the railroad crossing shall be placed 6 ft minimum and 15 ft maximum from the centerline of the nearest rail.

(5) Where a shared-use path intersects a street or highway, the detectable warning surface shall be placed on the shared-use path within 1 ft of the street or highway edge.

(6) Plate ends shall be placed at the back of curb. The distance between the back of curb and the front face of the detectable warning surface shall not exceed 6 in. between the ends.

7. See Standard Drawing E 604-SWCR-14 for detectable warning surface details.

LEGEND:
- Buffer or Other Non-Walkable Surface
- Detectable Warning Surface (DWS)
- Ramp
- GB Grade Break

INDIANA DEPARTMENT OF TRANSPORTATION

DETECTABLE WARNING SURFACE PLACEMENT AND CONFIGURATION

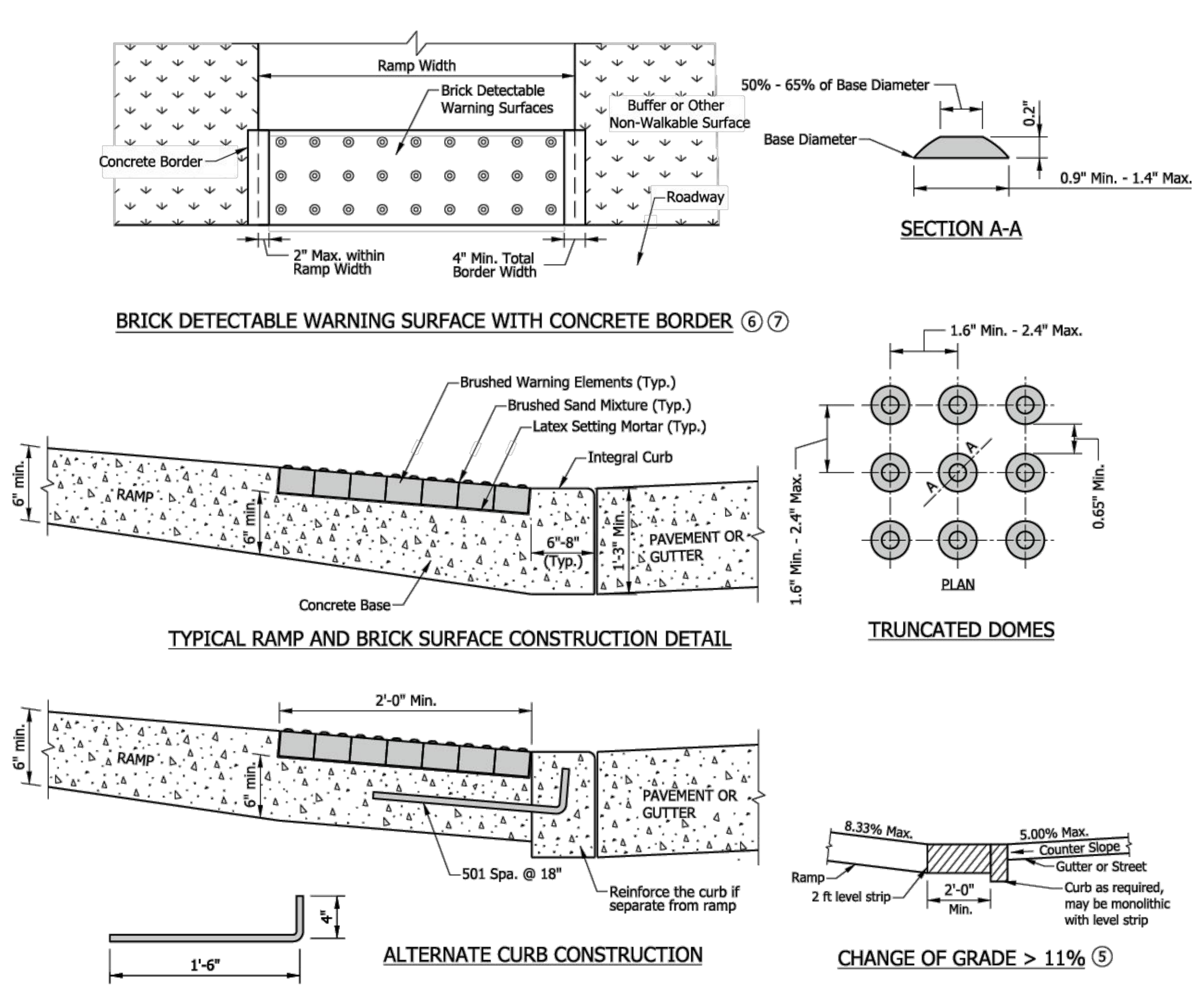
SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-13

ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/29/18
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/25/18
CHIEF ENGINEER DATE



BRICK DETECTABLE WARNING SURFACE WITH CONCRETE BORDER (6) (7)

SECTION A-A

TYPICAL RAMP AND BRICK SURFACE CONSTRUCTION DETAIL

TRUNCATED DOMES

501 x 1'-10"

ALTERNATE CURB CONSTRUCTION

CHANGE OF GRADE > 11% (5)

NOTES:

1. Detectable warning surface shall consist of truncated domes. Domes shall be aligned in a square or radial grid pattern with diameter and center-to-center spacing within the ranges specified.

2. The detectable warning surface may be field cut. Truncated dome spacing between adjacent panels shall be within the ranges specified.

3. The detectable warning surface shall contrast visually with adjacent surfaces, either light-on-dark or dark-on-light.

4. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and extend the full width as shown. The detectable warning surface shall not be placed across a grade break.

(5) The maximum counter slope of the gutter or street at the bottom of the ramp shall be 5.00%. Where the algebraic difference between the running slope and the counter slope exceeds 11%, a 2-ft minimum level strip should be provided at the bottom of the ramp.

(6) Where a concrete border is used for forming, the border shall be cast monolithically with the curb ramp concrete. The concrete border shall not reduce the ramp width by more than 2 in. on each side.

(7) Where forming other than a concrete border is used, the edge restraint shall not encroach upon the ramp width.

INDIANA DEPARTMENT OF TRANSPORTATION

DETECTABLE WARNING SURFACE DETAILS

SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-14

ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/29/18
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/25/18
CHIEF ENGINEER DATE

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW" 811 Know what's below. Call before you dig. 2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
QDOBA MEXICAN EATS
MCCORDSVILLE

PROJECT LOCATION:
7419 W. 600 N.
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

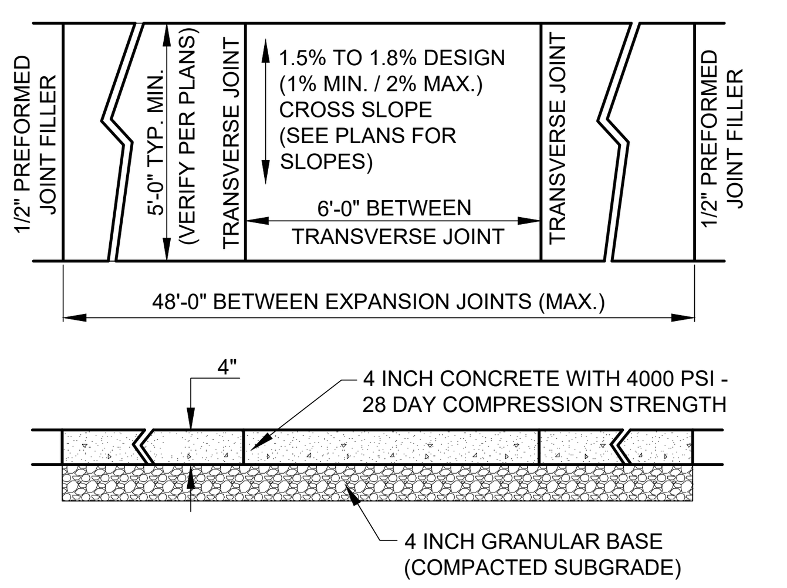
SECTION, TOWNSHIP, RANGE:
SW 1/4, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

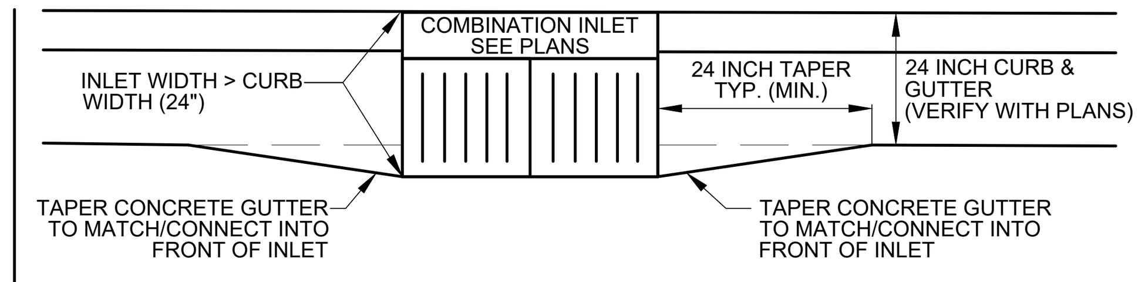
PLAN DATE:	09/22/23	
DESIGN: AF	CHECK: AF	DRAWN: KG
PROJECT NO.	2307011	
SHEET NAME	INDOT CURB RAMP DETAILS	
SHEET NO.	C604	

CURB & WALK NOTES:

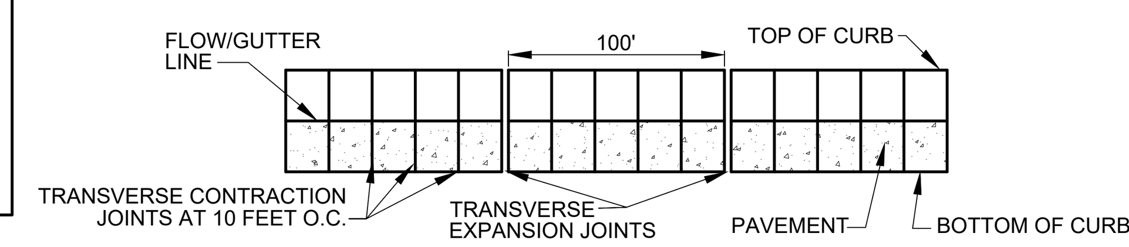
1. VERIFY DIMENSIONS AND WIDTHS OF WALKS AND CURBS WITH PLANS.
2. TRANSVERSE JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF 1/4" @ 10' MAX. SPACING AS INDICATED OR DIRECTED.
3. THE SPACE BEHIND THE CURB SHALL BE FILLED WITH SUITABLE MATERIAL TO THE REQUIRED ELEVATION AND COMPACTED IN LAYERS NOT TO EXCEED 4 INCHES.
4. WHEN BUILT IN CONJUNCTION WITH CONCRETE PAVEMENT, EXPANSION AND CONTRACTION JOINTS SHOULD BE PLACED AT THE SAME LOCATIONS IN THE PAVEMENT SLAB. THE CURB AND GUTTER SHOULD BE TIED TO THE PAVEMENT BY 1/2" ROUND DEFORMED BARS AT ABOUT 3' INTERVALS NOT TO EXCEED 100'. CONTRACTION JOINTS SHALL BE INSTALLED AT 10' SPACING.
5. WHEN CURB ABUTS CONCRETE DRAINAGE STRUCTURES, EXPANSION JOINT MATERIAL IS REQUIRED.
6. COMPACTED SUBGRADES AND CONCRETE FOR CURBS AND WALKS WHEN LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE GOVERNING LOCAL CITY / MUNICIPALITY STANDARDS, DETAILS, AND SPECIFICATIONS FOR THAT CORRESPONDING ITEM.
7. FOR ALL SITE RELATED CURB AND WALKS (AS LOCATED OUTSIDE THE RIGHT-OF-WAY), COMPACTED SUBGRADES, CONCRETE MATERIAL, AND CONSTRUCTION PROCEDURES SHALL CONFORM AND MEET INDOT STANDARDS AND SPECIFICATIONS FOR THAT CORRESPONDING ITEM UNLESS NOTED OTHERWISE.



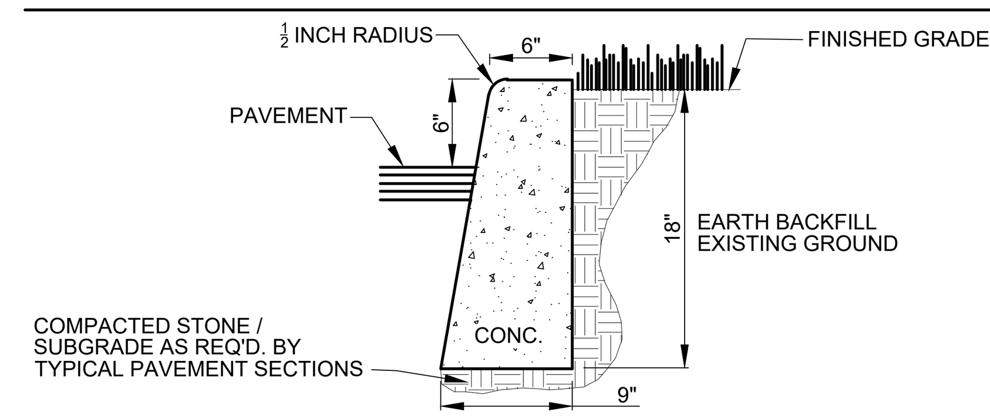
CONCRETE SIDEWALK DETAIL
NOT TO SCALE



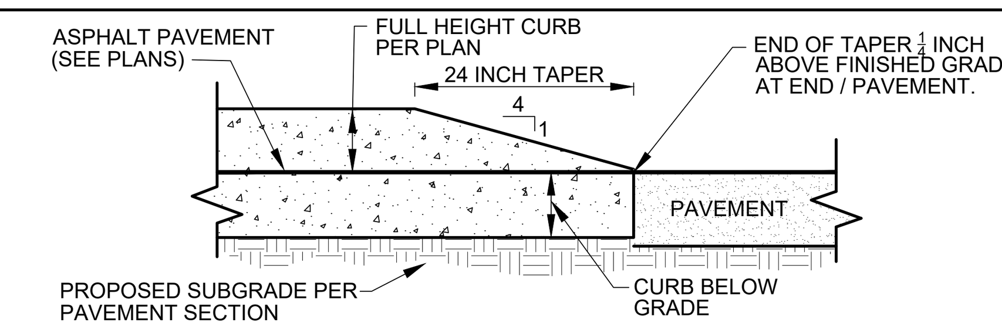
INLET CONCRETE GUTTER TRANSITION
NOT TO SCALE



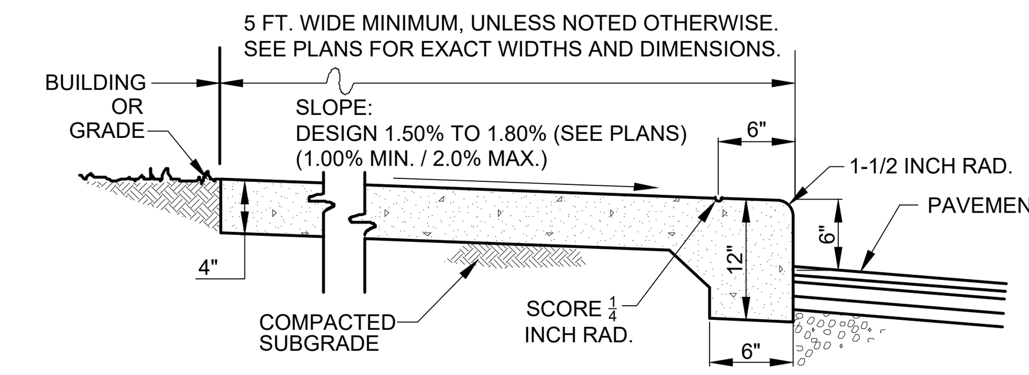
CURB JOINT DETAIL
NOT TO SCALE



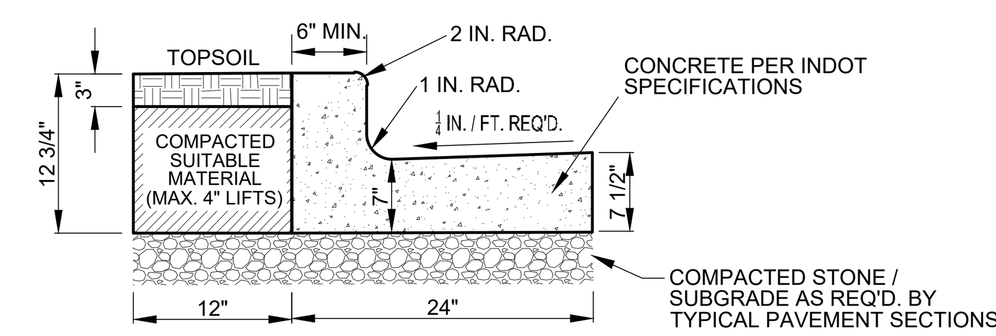
6 INCH BY 18 INCH MONOLITHIC / STRAIGHT CURB DETAIL
NOT TO SCALE



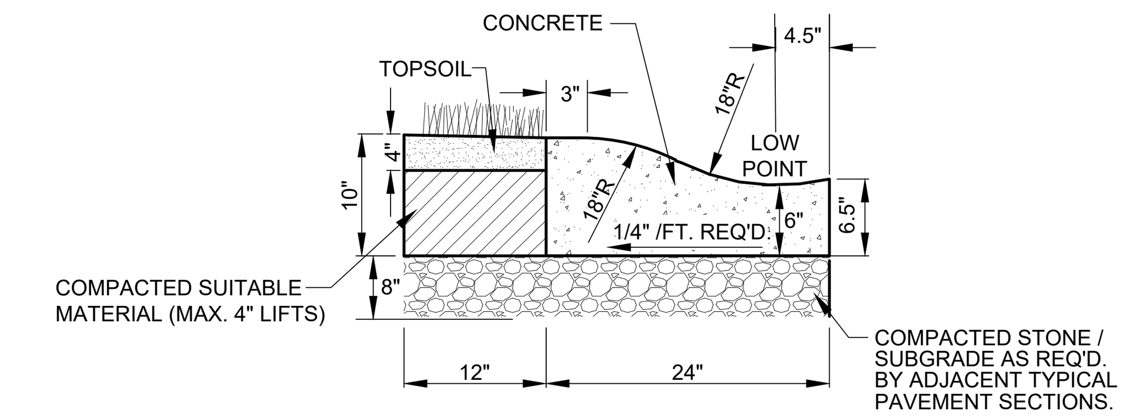
CONCRETE CURB TAPER DETAIL
NOT TO SCALE



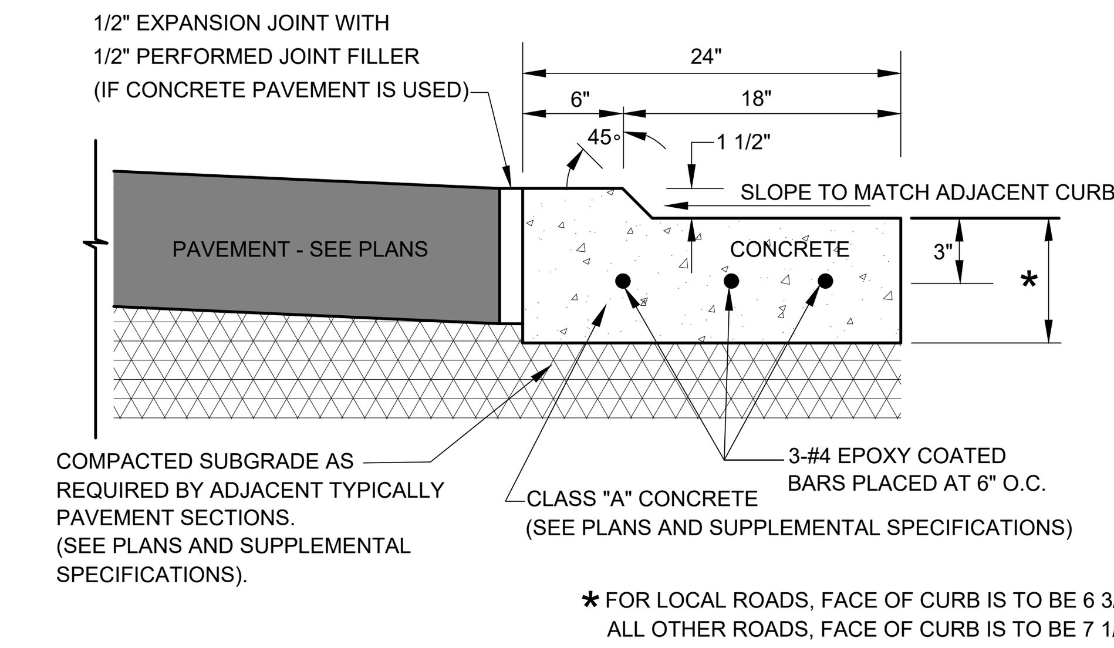
CONCRETE CURB AND WALK DETAIL
NOT TO SCALE



CONCRETE CURB AND GUTTER DETAIL
NOT TO SCALE

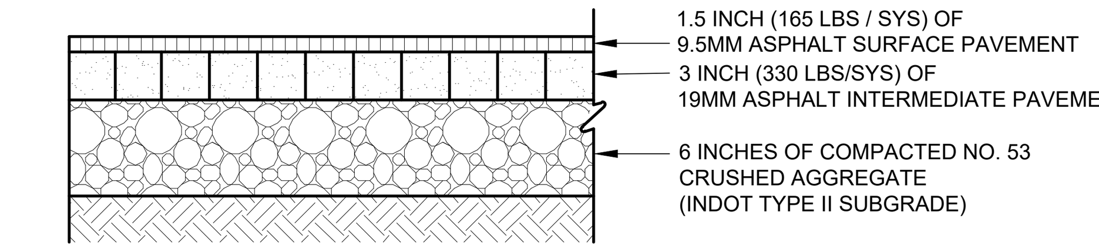


ROLL CURB DETAIL
NOT TO SCALE

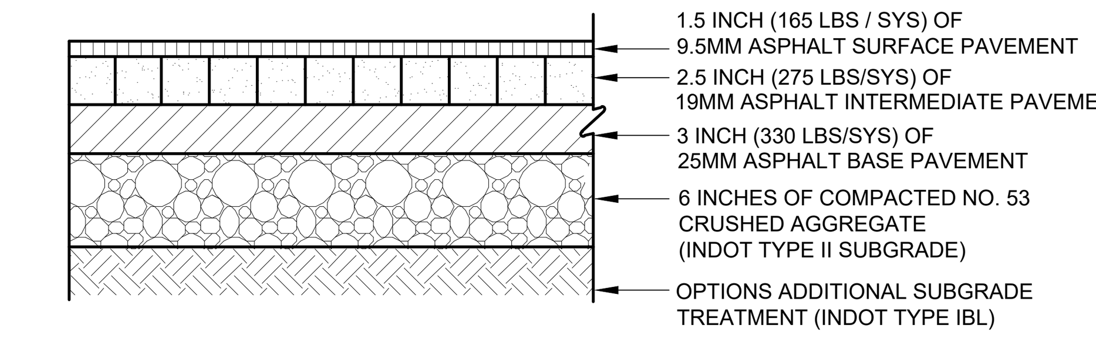


★ FOR LOCAL ROADS, FACE OF CURB IS TO BE 6 3/4"
ALL OTHER ROADS, FACE OF CURB IS TO BE 7 1/2"

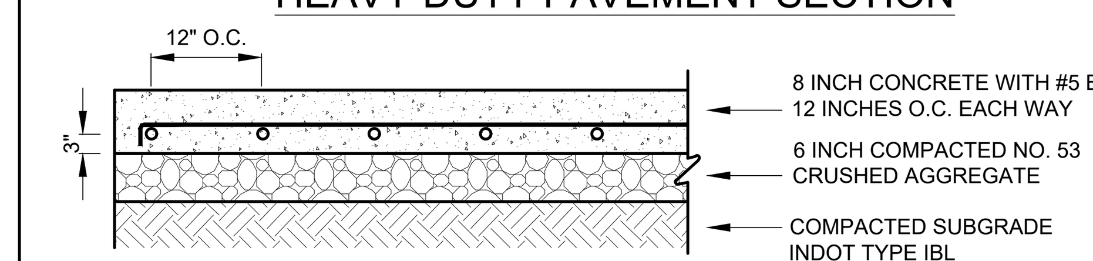
CONCRETE DEPRESSED CURB AND GUTTER
NOT TO SCALE



LIGHT DUTY PAVEMENT SECTION



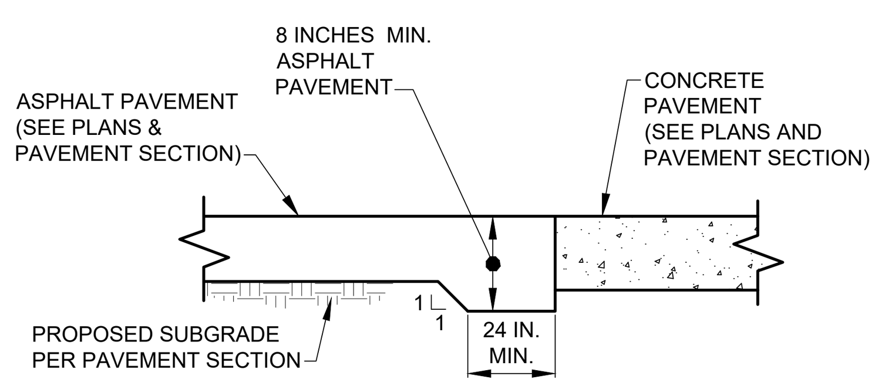
HEAVY DUTY PAVEMENT SECTION



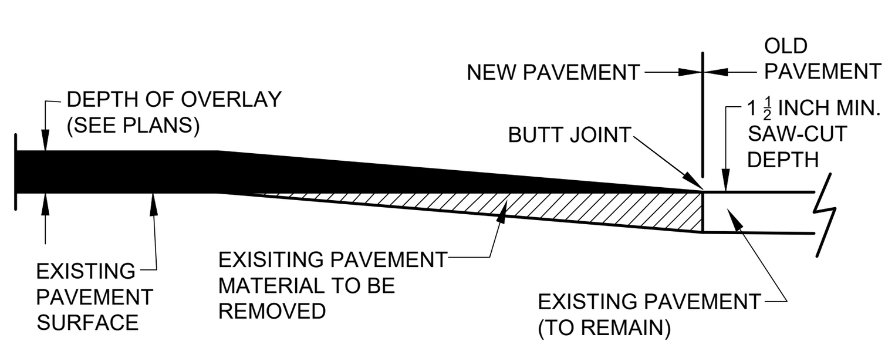
CONCRETE PAVEMENT SECTION

NOTES:
1. PAVEMENT, AGGREGATE AND SUBGRADE MATERIALS PER INDOT STANDARD SPECIFICATIONS.
2. SUBGRADE SHALL BE PREPARED PER INDOT STANDARD SPECIFICATIONS.
3. ADD TACK COAT BETWEEN ASPHALT LIFTS.
4. CONTRACTOR SHALL COORDINATE AND VERIFY PAVEMENT SECTIONS SHOWN WITH OWNER'S GEOTECHNICAL CONSULTANT.
5. FOR PAVEMENT SECTIONS LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY, REFER TO GOVERNING CITY / MUNICIPALITY DETAILS AND SPECIFICATIONS.

TYPICAL PAVEMENT SECTIONS DETAILS
(NOT LOCATED WITHIN PUBLIC RIGHT-OF-WAY)
NOT TO SCALE

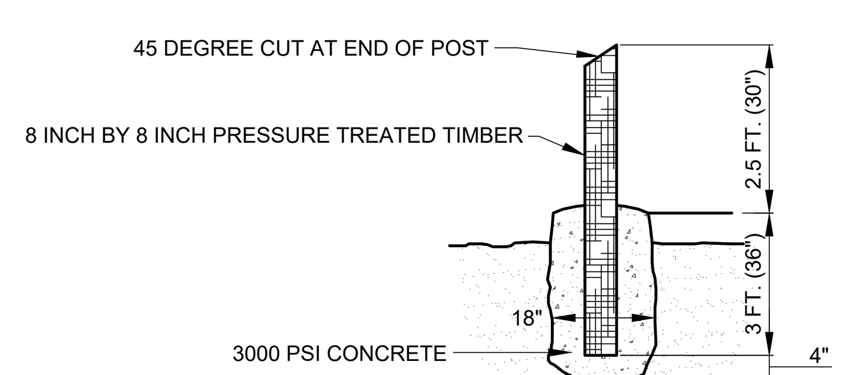


THICKENED EDGE ASPHALT / CONCRETE PAVEMENT JOINT DETAIL
NOT TO SCALE

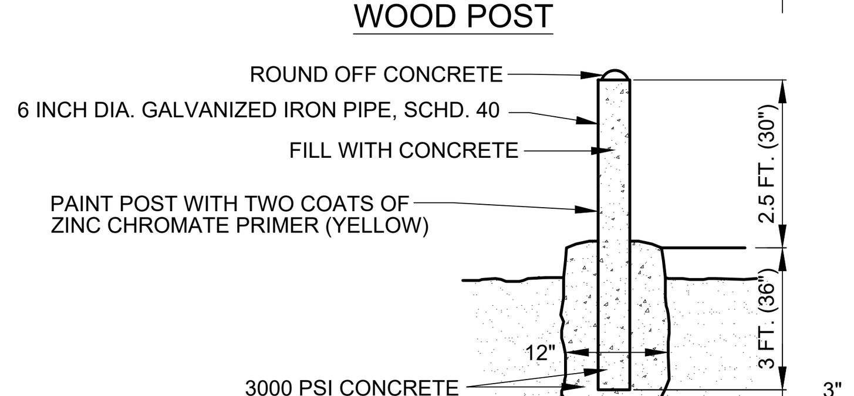


NOTE: TO BE MILLED AT EACH END OF PAVEMENT OVERLAY. SEE PLANS FOR MILL AND OVERLAY LIMITS AND PAVEMENT TYPES AND SECTIONS.

CROSS-SECTION OF ASPHALT PAVEMENT BUTT JOINT DETAIL
NOT TO SCALE

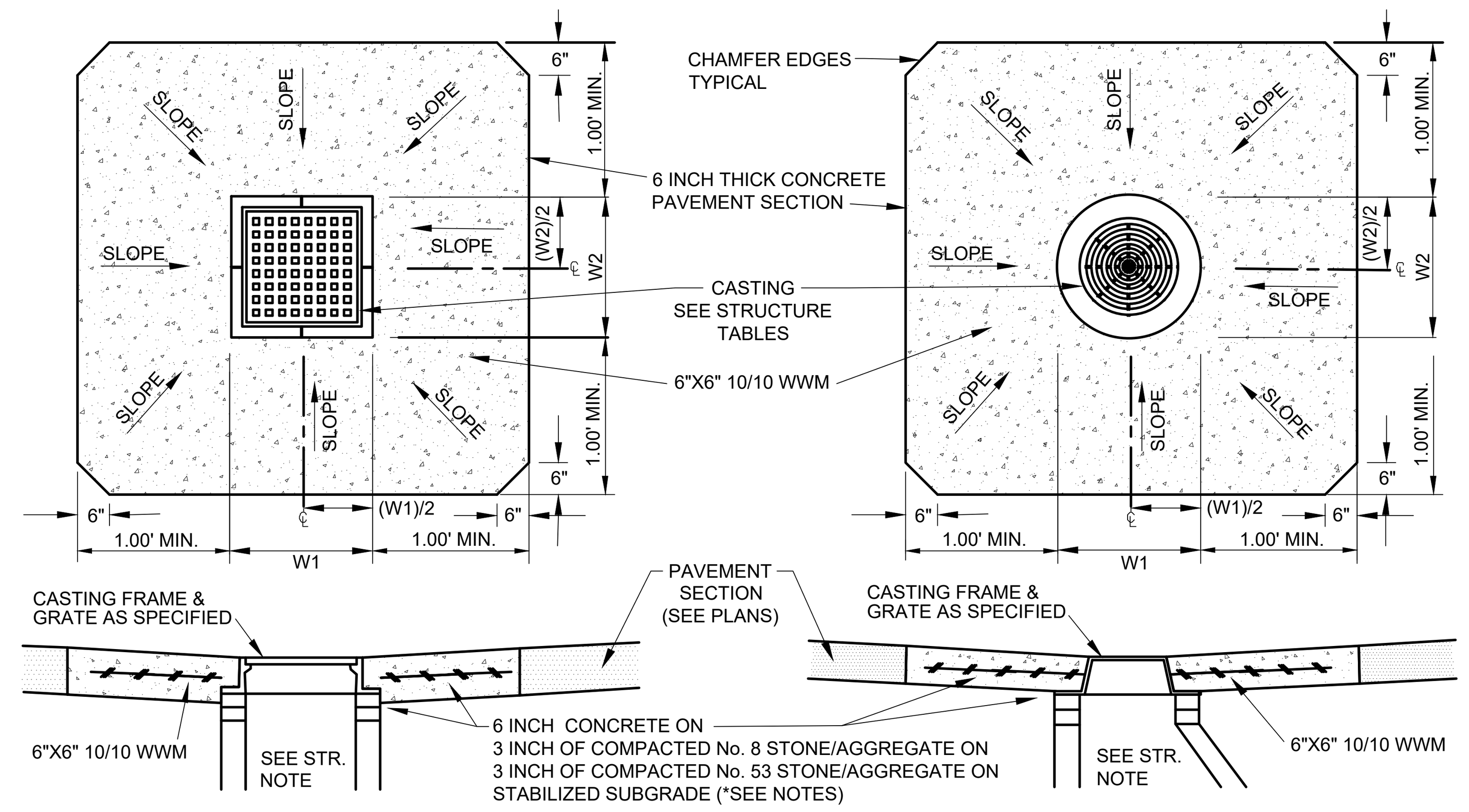


WOOD POST



CONCRETE BOLLARD

TYPICAL BOLLARD / GUARD POST DETAIL
NOT TO SCALE



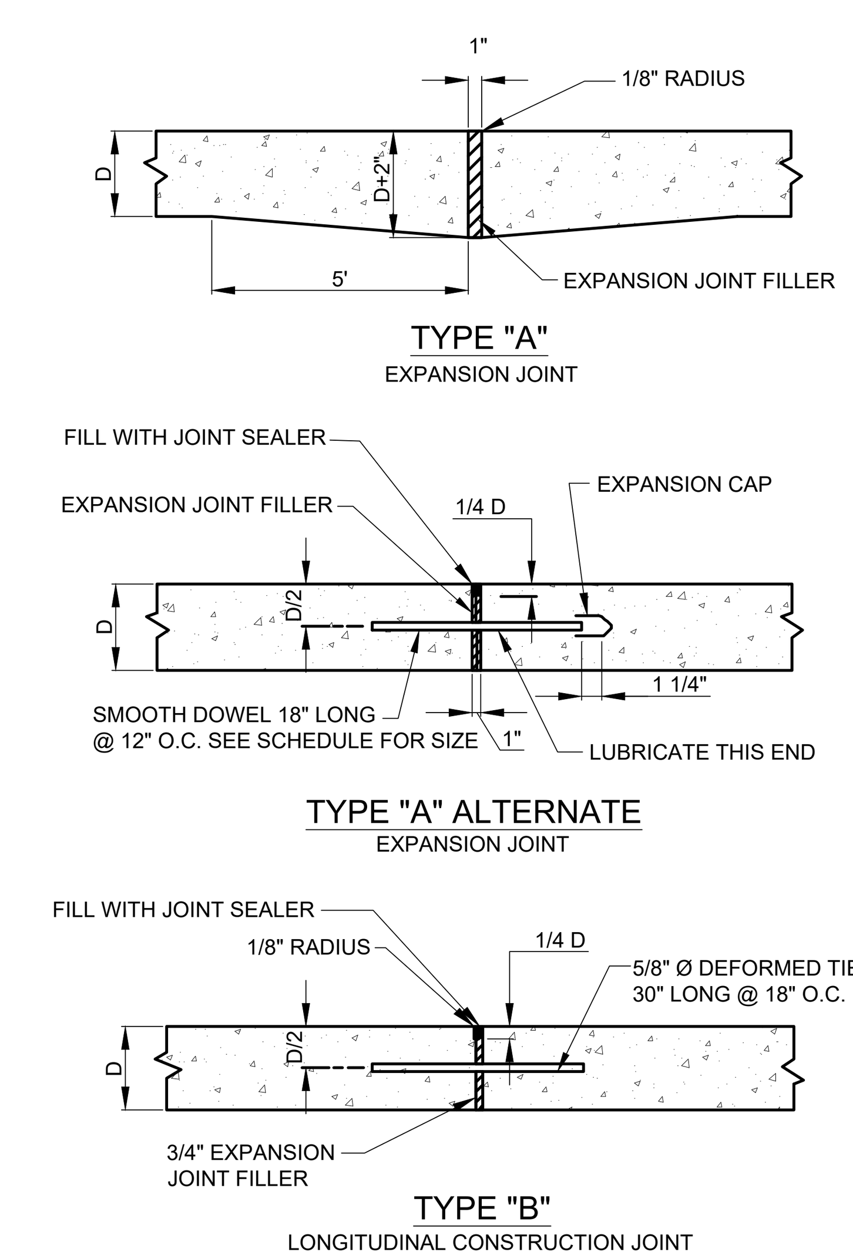
NOTES:
- STONE / AGGREGATE SHALL MEET INDOT STANDARD SPECIFICATIONS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. PER INDOT STANDARDS.
- FOR CONCRETE PAVEMENT, REFER TO THE PAVEMENT SECTION OF THE SPECIFICATION SHEET OR BOOK FOR CONCRETE SPECIFICATIONS. INDOT SPECIFICATIONS TO BE UTILIZED AS SUPPLEMENTAL INFORMATION.
- W1 & W2 VARIES DEPENDING ON THE CASTING TYPE. FOR CASTING TYPES, SEE STRUCTURE TABLES.

STRUCTURE NOTES:
REFER TO THE STORM SEWER BOX STRUCTURE AND / OR MANHOLE DETAILS, ALONG WITH STRUCTURE DATA TABLES FOR STORM STRUCTURE INFORMATION.

FOR CASTING FRAME AND GRATE TYPES AND DIMENSIONS, SEE STRUCTURE TABLES.

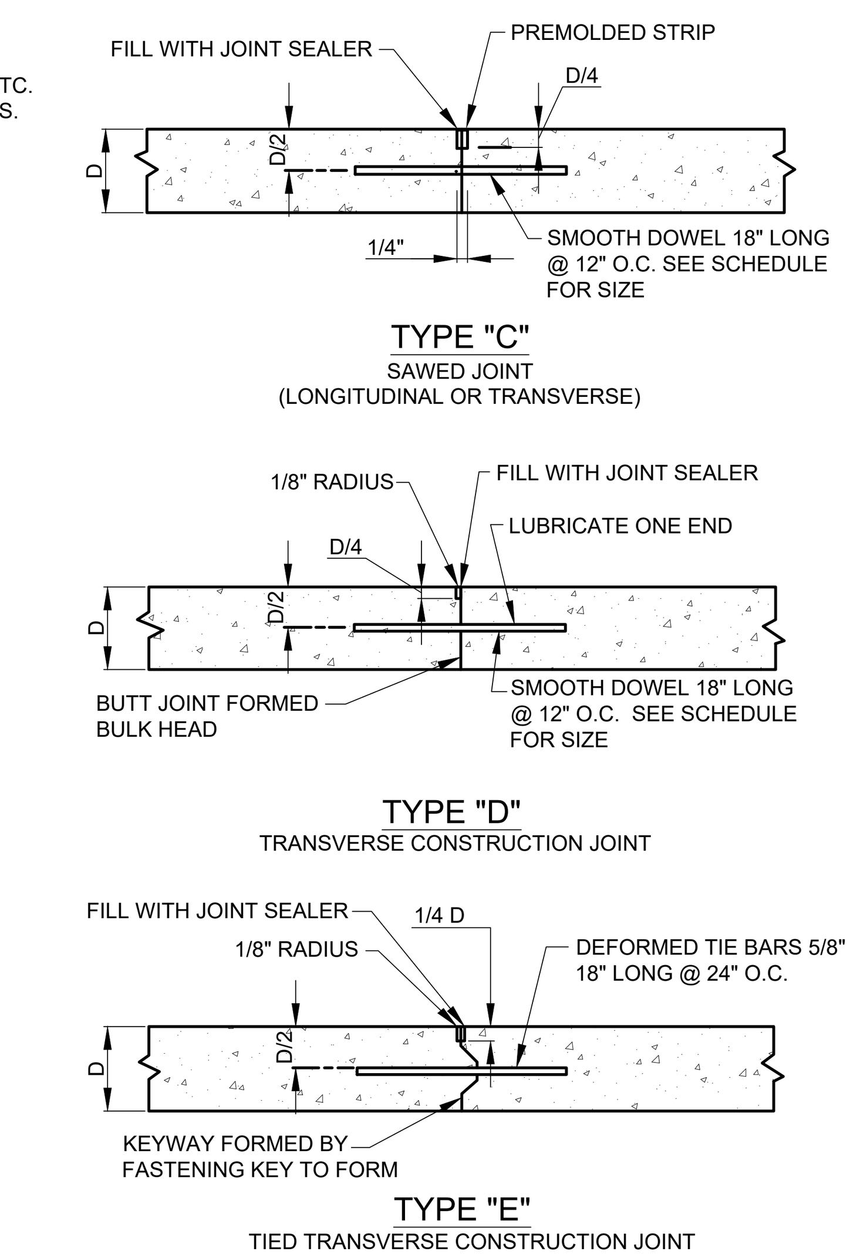
SEWER STRUCTURE CONCRETE APRON
NOT TO SCALE

NOTES:
ALL MATERIAL, SPECIFICATIONS, STANDARDS, PROCESSES, CONSTRUCTION PROCEDURES, ETC. SHALL MEET INDOT STANDARD SPECIFICATIONS.



DOWEL SCHEDULE

PAVEMENT THICKNESS "D" (INCHES)	SMOOTH DOWEL SIZE (DIAMETER IN INCHES)
6"	3/4" Ø
7"	7/8" Ø
8"	1" Ø
9"	1-1/8" Ø



CONCRETE JOINT DETAILS
NOT TO SCALE

DIAGRAM NO. 1: BICYCLE PARKING LOCATION AND DESIGN (SIDE VIEW)

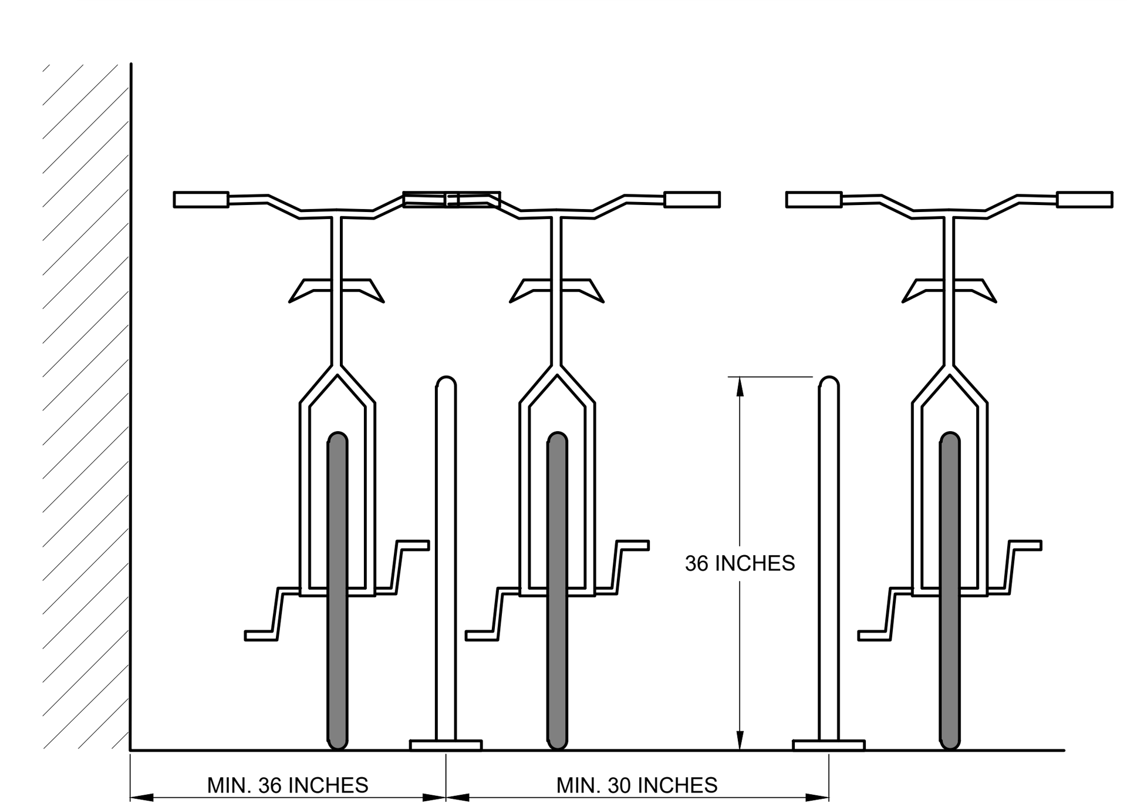
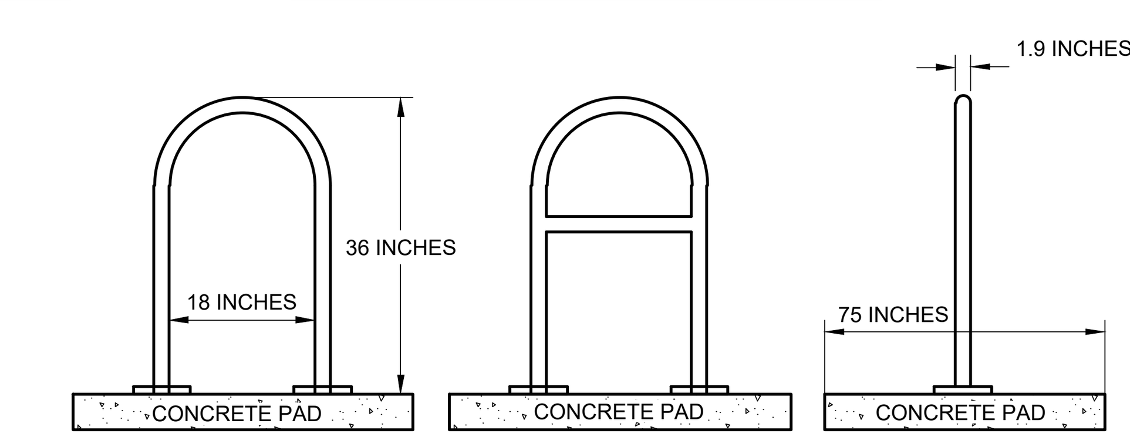


DIAGRAM NO. 2: BICYCLE RACK TYPE



NOTES:
1. SEE PLANS FOR NUMBER OF PARKING RACKS REQUIRED.
2. RACK SHALL BE BLACK THERMOPLASTIC POWDER COATED AND FIXED IN PACE WITH EITHER ANCHOR BOLTS OR CAST INTO CONCRETE PER MANUFACTURERS RECOMMENDATIONS, SPECIFICATIONS, AND REQUIREMENTS.
3. CONCRETE PAD SHALL BE MINIMUM OF 72 INCHES BY 84 INCHES AND MATCH THE SIDEWALK SECTION / DETAIL AND CONSTRUCTION SPECIFICATIONS.

BICYCLE PARKING DETAIL
NOT TO SCALE

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
www.Fritz-Eng.com

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW"
811
Know what's below. Call before you dig.
2 WORKING DAYS BEFORE YOU DIG

PROJECT:
QDOBA MEXICAN EATS
MCCORDSVILLE

PROJECT LOCATION:
7419 W. 600 N.
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW 1/4, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

PLAN DATE: 09/22/23

DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2307011

SHEET NAME: SITE DETAILS

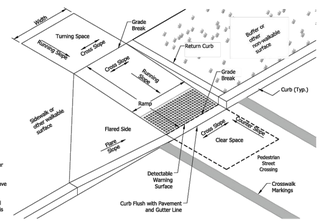
SHEET NO. C801

INDEX

SHEET NO.	SUBJECT
1	Curb Ramp Drawing Index and General Notes
2-3	Perpendicular Curb Ramp Typical Placement
4	Perpendicular Curb Ramp Component Details
5	One-Way Directional Perpendicular Curb Ramp Typical Placement
6	One-Way Directional Perpendicular Curb Ramp Component Details
7	Parallel Curb Ramps Typical Placement
8	Parallel Curb Ramp Component Details
9	Blended Transition Curb Ramp, Depressed Curb Ramp and Diagonal Curb Ramp Typical Placement
10	Blended Transition Curb Ramp Component Details
11	Median Cut-Through and Median Perpendicular Curb Ramp Typical Placement
12-13	Detectable Warning Surface Placement and Configuration
14	Detectable Warning Surface Details

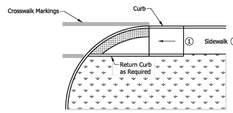
GENERAL NOTES:

1. All slopes are absolute rather than relative to the sidewalk or roadway grade. Slopes at least 0.50% less than the maximum are preferred.
2. Ramp or Blended Transition. A ramp or blended transition shall be used to lower or raise the sidewalk to connect with the street or highway.
3. Turning Space. A turning space shall be provided at the top of a perpendicular ramp, bottom of a parallel ramp, or where the pedestrian travel requires a change in direction. A common turning space may be shared by adjacent ramps. The turning space shall have a minimum clear dimension of 4 ft x 4 ft. Where the turning space is constrained at the back of the sidewalk by a curb, retaining wall, building, or feature over 2 inches in height, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.
4. Flared Side. A flared side shall be used adjacent to a walkable surface. A flared side may be used adjacent to a non-walkable surface. A flared side shall have a maximum slope of 10.00% measured parallel to the back of the curb.
5. Return Curb. A return curb is placed perpendicular to the roadway curb. A return curb may be used adjacent to a non-walkable surface. A return curb shall not be used adjacent to a walkable surface. The return curb may be omitted where the non-walkable surface is flared and the curb adjacent the roadway is tapered to meet the flush curb at the bottom of the ramp.
6. Clear Space. A clear space shall be provided beyond the bottom grade break of a curb ramp wholly contained within the crosswalk and wholly outside the parallel vehicular travel path. The clear space shall have a minimum clear dimension of 4 ft x 4 ft.
7. Detectable Warning Surface. A detectable warning surface shall consist of truncated domes and be placed at each street, highway, or railroad crossing. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and be placed the entire width of a ramp, blended transition, or turning space.
8. Running Slope. The running slope of a ramp, blended transition, or turning space shall be measured parallel to the direction of pedestrian travel.
   a. A running slope of 2.00% or less is considered level.
   b. A ramp shall have a maximum running slope of 8.33% but shall not require a ramp length to exceed 15 ft.
   c. A blended transition shall have a maximum running slope of 5.00%.
   d. A turning space shall have a maximum running slope of 2.00%.
9. Width. Unless otherwise noted, minimum width of a ramp, blended transition, or turning space, excluding flared sides or return curb, shall be 4 ft.
10. Grade Break. A grade break at the top and bottom of a ramp, blended transition, or turning space shall be perpendicular to the running slope. Grade breaks shall not be within the ramp, blended transition, turning space, or detectable warning surface. Grade breaks shall be flush. Vertical discontinuities shall not be greater than 1/2 in. Where a discontinuity is greater than 1/4 in. the surface shall be beveled with a slope not steeper than 1V:2H.
11. Cross Slope Exceptions. The cross slope of a ramp, blended transition, or turning space shall be measured perpendicular to the direction of pedestrian travel.
    a. The maximum cross slope at a pedestrian street crossing without yield or stop control shall be 5.00%.
    b. The maximum cross slope at a pedestrian street crossing with yield or stop control shall be 2.00%.
    c. The maximum cross slope at a midblock crossing shall be the established grade of the adjacent roadway.
12. Counter Slope. A counter slope is the cross slope of the gutter or street adjacent the running slope of the ramp, blended transition, or turning space. See Standard Drawing E 604-SWCR-14 for counter slope details.
13. Objects such as a utility cover, vault frame, and grating shall be placed outside the curb ramp.
14. Curb ramps shall be placed within the marked crosswalk area.
15. Drainage inlets should be located uphill from a curb ramp to prevent ponding in the path of pedestrian travel.

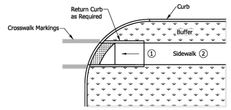


TYPICAL CURB RAMP COMPONENTS

INDIANA DEPARTMENT OF TRANSPORTATION		
CURB RAMP DRAWING INDEX AND GENERAL NOTES SEPTEMBER 2018		
STANDARD DRAWING NO. E 604-SWCR-01		
ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	/s/ Elizabeth W. Phillips DESIGN STANDARDS ENGINEER	03/20/18 DATE
	/s/ John Lackie CHIEF ENGINEER	04/25/18 DATE



ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP ADJACENT CURB



ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP WITH BUFFER

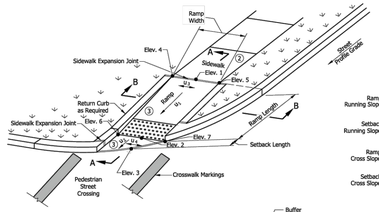
NOTES:

1. A turning space is not required at the top of the ramp for a one-way directional perpendicular curb ramp.
2. Where there is no buffer between the sidewalk and curb the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SDWK for sidewalk details.

LEGEND:

- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface

INDIANA DEPARTMENT OF TRANSPORTATION		
ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP TYPICAL PLACEMENT SEPTEMBER 2016		
STANDARD DRAWING NO. E 604-SWCR-05		
ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	/s/ Elizabeth W. Phillips DESIGN STANDARDS ENGINEER	03/15/16 DATE
	/s/ Mark A. Miller CHIEF ENGINEER	03/18/16 DATE



Component Slope Equations:

Ramp u_1 Running Slope $= \frac{|\text{Elev. 1} - \text{Elev. 2}|}{\text{Ramp Length}} \leq 8.33\%$

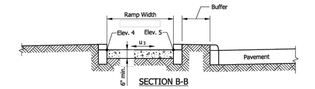
Setback u_2 Running Slope $= \frac{|\text{Elev. 2} - \text{Elev. 3}|}{\text{Setback Length}} \leq$ Profile Grade of Adjacent Street

Ramp u_3 Cross Slope $= \frac{|\text{Elev. 4} - \text{Elev. 5}|}{\text{Ramp Width}} \leq 2.00\%$ (4)

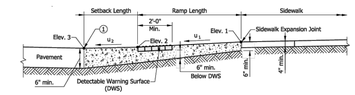
Setback u_4 Cross Slope $= \frac{|\text{Elev. 6} - \text{Elev. 7}|}{\text{Ramp Width}} \leq 2.00\%$ (4)

NOTES:

1. The bottom edge of the ramp or setback and top of curb shall be flush with the edge of adjacent pavement and gutter line.
2. A turning space is not required at the top of the ramp for a one-way directional perpendicular curb ramp.
3. Curb ramp surface shall be coarse broomed transverse to the running slope.
4. See Standard Drawing E 604-SWCR-01 for cross slope exceptions.
5. See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.
6. See Standard Drawing E 604-CCSJ-01 for sidewalk expansion joint details.



SECTION B-B

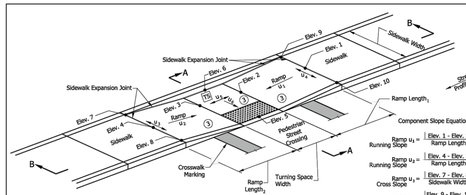


SECTION A-A

LEGEND:

- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface

INDIANA DEPARTMENT OF TRANSPORTATION		
ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP COMPONENT DETAILS SEPTEMBER 2018		
STANDARD DRAWING NO. E 604-SWCR-06		
ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	/s/ Elizabeth W. Phillips DESIGN STANDARDS ENGINEER	03/29/18 DATE
	/s/ John Lackie CHIEF ENGINEER	04/25/18 DATE



Component Slope Equations:

Ramp u_1 Running Slope $= \frac{|\text{Elev. 1} - \text{Elev. 2}|}{\text{Ramp Length}} \leq 8.33\%$

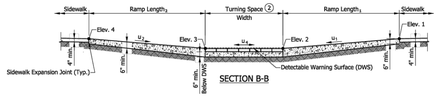
Ramp u_2 Running Slope $= \frac{|\text{Elev. 4} - \text{Elev. 3}|}{\text{Ramp Length}} \leq 8.33\%$

Ramp u_3 Cross Slope $= \frac{|\text{Elev. 7} - \text{Elev. 8}|}{\text{Sidewalk Width}} \leq 2.00\%$

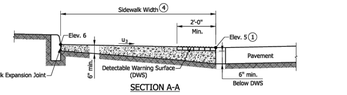
Ramp u_4 Cross Slope $= \frac{|\text{Elev. 9} - \text{Elev. 10}|}{\text{Sidewalk Width}} \leq 2.00\%$

Turning Space Cross Slope $u_5 = \frac{|\text{Elev. 2} - \text{Elev. 3}|}{\text{Turning Space Width}} \leq 2.00\%$ (5)

Turning Space Running Slope $u_6 = \frac{|\text{Elev. 6} - \text{Elev. 5}|}{\text{Sidewalk Width}} \leq 2.00\%$



SECTION B-B

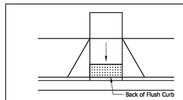


SECTION A-A

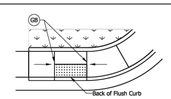
LEGEND:

- Ramp
- Detectable Warning Surface
- TS Turning Space

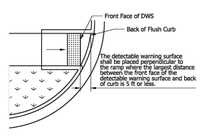
INDIANA DEPARTMENT OF TRANSPORTATION		
PARALLEL CURB RAMP COMPONENT DETAILS SEPTEMBER 2018		
STANDARD DRAWING NO. E 604-SWCR-08		
ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	/s/ Elizabeth W. Phillips DESIGN STANDARDS ENGINEER	03/29/18 DATE
	/s/ John Lackie CHIEF ENGINEER	04/25/18 DATE

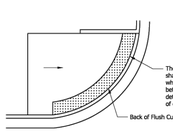


PERPENDICULAR CURB RAMP



PARALLEL CURB RAMP (4)





ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMPS ON A RADIUS (3)

BLENDED TRANSITION CURB RAMP (6)

DEPRESSED CORNER CURB RAMP (5)

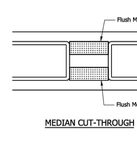
NOTES:

1. A detectable warning surface shall be placed at each street, highway, or railroad crossing. See Detail Drawing E 604-SDWK-03 for a detectable warning surface placement at a sidewalk driveway crossing.
2. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and extend the full width as shown. The detectable warning surface shall not be placed across a grade break.
3. Where the distance from the face of the detectable warning surface is 5 ft or less from the back of curb, the detectable warning surface shall be placed perpendicular to the ramp. Where the distance from the face of the detectable warning surface is more than 5 ft from the back of curb, the detectable warning surface shall be placed at the back of curb as shown or in an alternate placement configuration. See Standard Drawing E 604-SWCR-13 for alternate detectable warning surface placement.
4. The detectable warning surface on a parallel curb ramp shall be placed on the turning space at the flush transition between the street and turning space at the back of curb.
5. The detectable warning surface on a blended transition or depressed corner shall be placed at the back of curb as shown or in an alternate placement configuration. See Standard Drawing E 604-SWCR-13 for alternate detectable warning surface placement.
6. See Standard Drawing E 604-SWCR-14 for detectable warning surface details.

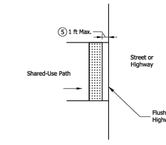
LEGEND:

- Buffer or Other Non-Walkable Surface
- Detectable Warning Surface (DWS)
- Ramp
- GB Grade Break

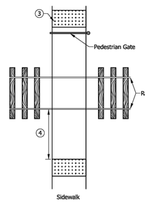
INDIANA DEPARTMENT OF TRANSPORTATION		
DETECTABLE WARNING SURFACE PLACEMENT AND CONFIGURATION SEPTEMBER 2018		
STANDARD DRAWING NO. E 604-SWCR-12		
ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	/s/ Elizabeth W. Phillips DESIGN STANDARDS ENGINEER	03/29/18 DATE
	/s/ John Lackie CHIEF ENGINEER	04/25/18 DATE



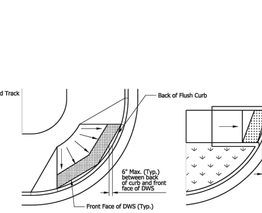
MEDIAN CUT-THROUGH



SHARED-USE PATH



RAILROAD CROSSING



ALTERNATE DETECTABLE WARNING SURFACE PLACEMENT (6)

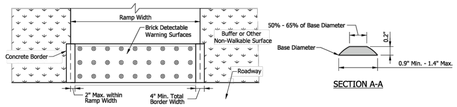
NOTES:

1. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and extend the full width as shown. The detectable warning surface shall not be placed across a grade break.
2. The detectable warning surface on a median cut-through shall be placed at the flush transition between the street and median cut-through. Where a median is less than 6 ft, a detectable warning surface shall not be placed.
3. Where a pedestrian gate is provided at a railroad crossing, the detectable warning surface shall be placed on the side of the gate opposite the railroad crossing.
4. The edge of the detectable warning surface nearest to the railroad crossing shall be placed 6 ft minimum and 15 ft maximum from the centerline of the nearest rail.
5. Where a shared-use path intersects a street or highway, the detectable warning surface shall be placed on the shared-use path within 1 ft of the street or highway edge.
6. Plate ends shall be placed at the back of curb. The distance between the back of curb and the front face of the detectable warning surface shall not exceed 6 in. between the ends.
7. See Standard Drawing E 604-SWCR-14 for detectable warning surface details.

LEGEND:

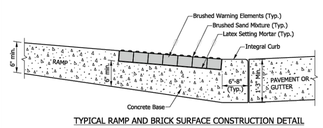
- Buffer or Other Non-Walkable Surface
- Detectable Warning Surface (DWS)
- Ramp
- GB Grade Break

INDIANA DEPARTMENT OF TRANSPORTATION		
DETECTABLE WARNING SURFACE PLACEMENT AND CONFIGURATION SEPTEMBER 2018		
STANDARD DRAWING NO. E 604-SWCR-13		
ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	/s/ Elizabeth W. Phillips DESIGN STANDARDS ENGINEER	03/29/18 DATE
	/s/ John Lackie CHIEF ENGINEER	04/25/18 DATE

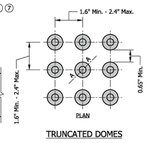


SECTION A-A

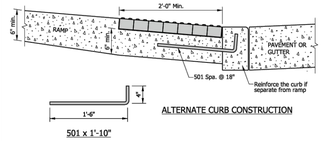
BRICK DETECTABLE WARNING SURFACE WITH CONCRETE BORDER (6) (7)



TYPICAL RAMP AND BRICK SURFACE CONSTRUCTION DETAIL

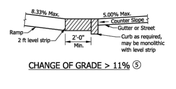


TRUNCATED DOMES



ALTERNATE CURB CONSTRUCTION

501 x 1'-10"

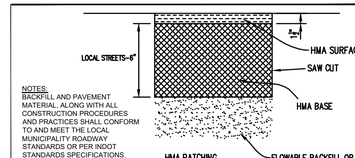


CHANGE OF GRADE > 11% (5)

NOTES:

1. Detectable warning surface shall consist of truncated domes. Domes shall be aligned in a square or radial grid pattern with diameter and center-to-center spacing within the ranges specified.
2. The detectable warning surface may be field cut. Truncated dome spacing between adjacent panels shall be within the ranges specified.
3. The detectable warning surface shall contrast visually with adjacent surfaces, either light-on-dark or dark-on-light.
4. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and extend the full width as shown. The detectable warning surface shall not be placed across a grade break.
5. The maximum counter slope of the gutter or street at the bottom of the ramp shall be 5.00%. Where the algebraic difference between the running slope and the counter slope exceeds 11%, a 2-ft minimum level strip should be provided at the bottom of the ramp.
6. Where a concrete border is used for forming, the border shall be cast monolithically with the curb ramp concrete. The concrete border shall not reduce the ramp width by more than 2 in. on each side.
7. Where forming other than a concrete border is used, the edge restraint shall not encroach upon the ramp width.

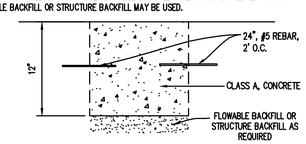
INDIANA DEPARTMENT OF TRANSPORTATION		
DETECTABLE WARNING SURFACE DETAILS SEPTEMBER 2018		
STANDARD DRAWING NO. E 604-SWCR-14		
ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER	/s/ Elizabeth W. Phillips DESIGN STANDARDS ENGINEER	03/29/18 DATE
	/s/ John Lackie CHIEF ENGINEER	04/25/18 DATE



HMA PATCHING
FIGURE I

NOTES:
BACKFILL AND PAVEMENT MATERIAL, ALONG WITH ALL CONSTRUCTION PROCEDURES AND PRACTICES SHALL CONFORM TO AND MEET THE LOCAL MUNICIPALITY ROADWAY STANDARDS OR PER INDOT STANDARDS SPECIFICATIONS.

NOTES:
1. A 1½" MILL & SURFACE OVER THE ENTIRE WIDTH OF THE STREET MAY BE REQUIRED ON THE APPROVED PLANS.
2. IN CASES WHERE THE STREET IS SEVERELY DAMAGED, A 2" INTERMEDIATE MAY ALSO BE REQUIRED.
3. TRENCH CUTS LESS THAN 4' USE FLOWABLE BACKFILL. TRENCH CUTS GREATER THAN 4' FLOWABLE BACKFILL OR STRUCTURE BACKFILL MAY BE USED.

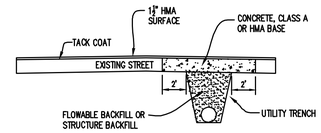


PORTLAND CEMENT CONCRETE PATCHING
FIGURE II

SCALE: NONE DATE: 11/20/12

REPAIR OF CUTS WITHIN PAVEMENT LIMITS

NOTES:
BACKFILL AND PAVEMENT MATERIAL, ALONG WITH ALL CONSTRUCTION PROCEDURES AND PRACTICES SHALL CONFORM TO AND MEET THE LOCAL MUNICIPALITY ROADWAY STANDARDS OR PER INDOT STANDARDS SPECIFICATIONS.



ADDITIONAL BACKFILL AND BEDDING REQUIREMENTS FOR PIPE INSTALLATION PER CORRESPONDING UTILITY COMPANY STANDARDS AND SPECIFICATIONS.

ASPHALT STREETS

GENERAL NOTES:

1. THE CONCRETE CAP AND STREET SHALL BE MILLED 1½" AND 1½" HMA SURFACE SHALL BE PLACED IN MILLED AREA.
2. THE PATCH SHALL SHALL EXTEND THE FULL WIDTH OF ANY LANE CUT AND A MINIMUM OF 25' IN LENGTH.
3. IN CASES WHERE A STREET IS SEVERELY DAMAGED DURING CONST. THE DPW PROJECT ENGINEER WILL REVIEW THE STREET'S CONDITION AND RECOMMEND A PERMANENT REPAIR.

SCALE: NONE DATE: 11/20/12

REPAIR OF CUTS WITHIN PAVEMENT LIMITS—CONT.

FRITZ ENGINEERING SERVICES
14020 MISSISSINEWA DRIVE
CARMEL, INDIANA 46033
P: 317.324.8695 F: 317.324.8717
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PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW" 811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
QDOBA MEXICAN EATS
MCCORDSVILLE

PROJECT LOCATION:
7419 W. 600 N.
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW ¼, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

PLAN DATE: 09/22/23

DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2307011

SHEET NAME
SITE DETAILS

SHEET NO.
C802

GENERAL NOTES:
STORM "BOX" STRUCTURES SHALL BE PRECAST CONCRETE CLASS ""A WITH A 4000 PSI. 28 DAY COMPRESSIVE STRENGTH. THE STRUCTURE DESIGN SHALL BE IN FULL ACCORDANCE WITH ASTM C890 AND/OR INDOT SPECIFICATIONS. EQUIVALENT INDOT STRUCTURES MAY BE UTILIZED AND CONSTRUCTED PER INDOT STANDARD DRAWINGS.

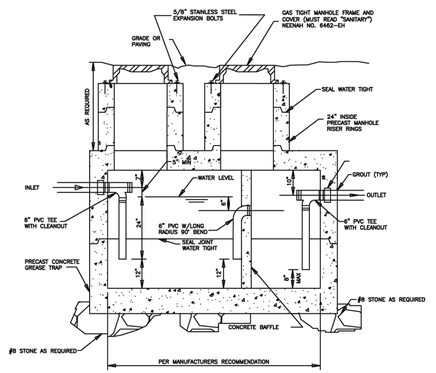
INDOT EQUIVALENT STR. TYPES	
W1 x W2 (INCHES)	INDOT STR. TYPE
24" x 24"	TYPE "A" (MOD.)
30" x 30"	TYPES "E" & "F"
24" x 36"	TYPES "J" & "M"
30" x 46"	TYPES "B" & "C"
MOD. = MODIFIED STRUCTURE	

KEYNOTES:
(U) 6 INCH DIA. PERFORATED HDPE UNDERDRAIN AT 1.0% MIN. SLOPE (IF REQUIRED) BACK TO STRUCTURE. INVERT OF UNDERDRAIN SHALL BE 6 INCHES ABOVE OUTLET PIPE INVERT. SEE PLANS FOR UNDERDRAIN LAYOUTS.

STORM "BOX" STRUCTURE INLET

NOT TO SCALE

GENERAL NOTES
1. ALL TANK JOINTS SHALL BE SEALED WATERTIGHT WITH BUTYL RUBBER EXTRUDIBLE PERFORMED GASKET MATERIAL, HAMILTON KENT-SEAL OR EQUAL.
2. ALL OUTSIDE RISER RINGS SHALL BE WATERPROOFED 2" WITH TROWELABLE GRADE BUTYL RUBBER BACK PLASTER.
3. PIPE SEALS SHALL BE TUF-TITE, POLYLOK, OR EQUAL.
4. UTILITY MAY ACCEPT ALTERNATE GREASE TRAP DESIGNS ON A CASE-BY-CASE BASIS
5. COORDINATE REQUIREMENTS WITH MCCORDSVILLE SANITARY DISTRICT.
6. GREASE INTERCEPTOR DIMENSIONS SHALL PROVIDE A MINIMUM OF 1,000 GALLONS OF VOLUME STORAGE.



NOT TO SCALE

GREASE INTERCEPTOR DETAIL

NOT TO SCALE

1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL TOWN OF MCCORDSVILLE CONSTRUCTION STANDARDS AND SPECIFICATIONS (STANDARDS) UNLESS SPECIFICALLY NOTED OTHERWISE.
2. INDIANA STATE DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, TO BE USED WITH THESE PLANS. (SUPPLEMENTAL SPECIFICATIONS)
3. IN THE EVENT THESE PLANS OR SUPPLEMENTAL SPECIFICATIONS ARE IN CONFLICT WITH SAID STANDARDS, THE MORE STRINGENT REQUIREMENTS SHALL BE USED.

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PROJECT:
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MCCORDSVILLE

PROJECT LOCATION:
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MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW 1/4, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

PLAN DATE: 09/22/23

DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2307011

SHEET NAME
UTILITY DETAILS

SHEET NO.
C803

PAVEMENT

A. SCOPE OF WORK

1. The work required under this section includes all exterior concrete and bituminous paving and related items necessary to complete the work indicated on drawings and described in the specifications, including but not limited to:

- All drives, parking areas within contract limits
- Curbs and gutters
- Sidewalks, concrete slabs, exterior steps

B. MATERIALS

1. Concrete: Concrete shall be ready-mixed and shall be a mix of proportioned fine and coarse aggregates with Portland cement and water. Minimum cement content shall be 6 bags per cubic yard of concrete and maximum water content shall be 5.5 U.S. gallons per sack of cement, including moisture in the aggregate. Slump for normal weight concrete shall be a maximum of 4 inches and a minimum of 2 inches. The slump of machine placed concrete shall be no less than 1-1/4 inches or more than 3 inches. Standard test ASTM C-143 shall be used to measure slump. Minimum compressive strength of concrete at 28 days shall be 4000 psi. All exterior concrete shall have air entrainment of 5% to 8% by volume per ASTM C-260. Re-tempering of delivered concrete shall not be permitted. Concrete shall be composed of:

   a. Portland cement: conforming to ASTM C-150, Type IA or type IIIA.
   b. Aggregates: conforming to ASTM C-33.
   c. Water: Shall be clear and free from injurious amounts of oils, acids, alkalics organic materials or other deleterious substances.

2. Pre-molded Joint Filler: Shall be non-extruding type meeting ASTM D-544, except that pre-molded joint filler used in concrete walk construction may be either non-extruding or resilient.

3. Bituminous Pavement Materials: All materials proposed for the construction of bituminous pavements shall comply with the Indiana Department of Transportation Standard Specifications, latest revisions.

4. Compacted Aggregate Sub-base:

- If a certain type of aggregate is specified and labeled per the plans and/or details, than that aggregate shall meet and be in accordance with the INDOT Standard Specifications.
- If the aggregate is not specified or labeled than it shall be crushed stone or gravel meeting the following requirements. Crushed gravel shall be a minimum of 35% crushed material. Fines shall be limited to a maximum of 8% of the total. Material shall be free from an excess of flat, elongated, thinly laminated soft or disintegrated pieces, and shall be free from fragments coated with dirt. Compacted aggregate shall have a gradation as presented below.

SIEVE SIZE	% PASSING
1-1/2"	100
1"	80-100
3/4"	70-90
1/2"	55-80
#4	35-60
#8	25-50
#30	2-30
#200	5-10

C. APPLICATION

1. Grading: Do any necessary grading in addition to that performed in accordance with EARTHWORK Section, to bring sub-grades, after final compaction, to the required grades and sections for site improvement.

2. Preparation of Sub-grade: Remove spongy and otherwise unsuitable material and replace with stable material. No traffic shall be allowed on prepared sub-grade prior to paving.

3. Compaction of Sub-grade: Refer to Section 207 of the INDOT Standard Specification Manual.

4. Utility Structures: Check for correct elevation of all manhole covers, inlets, valve boxes and similar structures located within areas to be paved and mark, or have made any necessary adjustments to such structures.

5. Placing Concrete:

   a. Sub-grade: Place concrete only on a moist, compacted sub-grade of base free from loose material. No concrete shall be placed on a muddy or frozen subgrade.
   b. Forms: All forms shall be free from warp, tight enough to prevent leakage and substantial enough to maintain their shape and position without springing or settling when concrete is placed. Forms shall be clean and smooth immediately before concreting.
   c. Placing Concrete: Concrete shall be deposited so as to require as little handling as practicable. When concrete is to be placed at an atmospheric temperature of 35 degrees (F) or less, the Indiana Department of Transportation Standard Specifications, latest revision shall be followed.

6. Concrete Curb and Gutter:

   a. Expansion Joints: Shall be 1/2 inch thick pre-moulded at ends of all returns and a maximum spacing of 100 feet.
   b. Contraction Joints: Unless otherwise provided, contraction joints shall be joints spaced 10 feet on center.
   c. Finish: Tamp and spread concrete as soon as placed, and fill any honeycombed places. Finish square corners to 1/4 inch radius or as otherwise required.

7. Concrete Walks and Exterior Steps:

   a. Slopes: Provide 1/4 inch per foot cross slope. Contractor shall make field adjustments in slopes at walk intersections as necessary to provide proper drainage.
   b. Dimensions: Walks and steps shall be one course construction and of widths and thickness shown on the drawings.
   c. Finish: Spread concrete and trowel with a steel trowel to a hard dense surface after surface water has disappeared. Apply medium broom finish and scribe control joints at 6 foot spacing. Provide 1/2 inch expansion joints where sidewalks intersect and at a maximum spacing of 48 feet along walks.

8. Curing Concrete: Except as otherwise specified, cure all concrete by one of the methods described in the Indiana Department of Transportation Standard Specifications, latest revision.

9. Bituminous Pavement: Hot asphalt concrete pavement shall be as specified in the Indiana Department of Transportation Standard Specifications, latest revisions. Paving will not be permitted during unfavorable weather or when the temperature is 40 degrees (F) or below and falling.

10. Compacted Aggregate Sub-base: The thickness shown on the drawings is the minimum thickness of the fully compacted sub-base: Compaction shall be accomplished by rolling with a smooth wheeled roller weighing 8 to 10 tons. Compact to 95% compaction using Standard Testing Procedures. Along curbs, headers and walls and at all places not accessible to the roller, the aggregate material shall be tamped with mechanical tampers.

EARTHWORK

A. SCOPE OF WORK

1. Extent: The work required under this section consists of all excavating, filling, rough grading and related items necessary to complete the work indicated on the drawings and described in the specifications. The Contractor shall notify in writing the Owners and the Engineer of any changes, errors, or omissions found on the plans or in the field, before work is started or resumed.

   a. In general, the items of work to be performed under this section shall include clearing and grubbing, removal of trees and stumps (where required), protection of trees to remain, stripping and storage of topsoil, fill, compaction and rough grading of entire site as indicated on the drawings.
   b. Excavated material that is suitable may be used for fill. All unsuitable material and all surplus excavated material not required shall be removed from the site by the Contractor. The location of dump and length of haul shall be the Contractor's responsibility.
   c. Provide and place any additional fill material from off the site as may be necessary to produce the grades required. Fill obtained from offsite shall be of kind and quality as specified herein, and as approved by the Engineer & Owner.

2. The Contractor shall accept the site as he finds it and shall remove all trash, rubbish and debris from the site prior to starting excavation.

3. Work not included: The following items of related work are specified and included in other sections of these specifications.

   a. Excavation, grading and backfilling for utility lines.
   b. Storm drainage systems.
   c. Sanitary sewer systems.
   d. Water supply systems.
   e. Drives and paving.

B. BENCHMARKS

1. Maintain carefully all bench marks, monuments and other reference points. If disturbed or destroyed, replace as directed by the Engineer.

C. REMOVAL OF TREES

1. Remove all trees and stumps from area to be occupied by road and surfaced areas. Removal of trees outside these areas shall only be done as noted on drawings or approved by the Owner.

2. All brush, stumps, wood and other refuse from the trees shall be removed from the site or burned with proper permits (where applicable).

D. PROTECTION OF TREES

1. General Protection: the Contractor shall be responsible for the 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 work is started; do not stockpile within branch spread. Remove interfering branches without injury to trunks and cover scars with tree paint.

E. STRIPPING OF TOPSOIL

1. Remove topsoil to a depth of 6 inches (or as indicated by Owner's Geotechnical Engineer) from the areas to be occupied by roads, walks, buildings, and parking areas. Pile and store topsoil at a location where it will not interfere with construction operations. Top soil shall be reasonably free from subsoil, debris and stones larger than 2 inches.

F. DISPOSITION OF UTILITIES

1. Rules and regulations governing the respective utilities shall be observed in executing all work under this section.

2. It shall be the responsibility of each contractor to verify all existing utilities and conditions pertaining to his phase of the work. It shall be the contractor's responsibility to contact the owners of the various utilities before work is started. The contractor shall notify in writing the owners or the engineers of any changes, errors or omissions found on these plans, and/or in the field before work is started or resumes.

3. Where active utilities are encountered but not shown on the drawings, the Contractor shall notify the Utility Company, Owner and Engineer prior to proceeding with any work. An appropriate course of action shall be agreed upon by the Utility Company, Owner and Engineer prior to work commencing.

4. Inactive and abandoned utilities encountered in excavating and grading operations shall be reported to the Engineer. They shall be removed, plugged or capped as directed by the Engineer and/or Utility Company.

G. SITE GRADING

1. Grades: Perform all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawings. Undercut open areas 4" for topsoil.

2. Rough grading: the tolerance for paved areas shall not exceed 0.10 feet above established subgrade. All other areas shall not exceed 0.10 feet plus or minus the established grade. Provide roundings at top and bottom of banks and other breaks in grade. All open areas shall be graded a minimum of 0.5% and a maximum of 3H:1V slope.

3. Sub-grade shall be proof rolled with suitable equipment and all spongy and otherwise unsuitable material shall be removed and replaced with suitable material. Contractor shall coordinate the proof roll procedure with the agency having jurisdiction to ensure proper representation is in attendance for the test.

4. Sub-grade for building areas shall be compacted to a minimum compaction of 95% Modified Proctor Density or per the Archetectual/Structural Construction Plans for the corresponding building area. The Archetectual/Structural plans shall govern.

5. Sub-grade for streets and paved areas - See PAVEMENT specifications.

6. See PAVEMENT section for additional information.

7. All fill material shall be formed from soil free of deleterious material. Prior to placement of fill, a sample of the proposed material shall be submitted to the Owner's Geotechnical Engineer for approval. The fill material shall be placed in layers not to exceed 8" in loose thickness and shall be spread and compacted at the proper moisture content.

8. All fill material in areas outside of building and pavement areas shall be compacted lightly with each lift and protected from erosion. Areas of building construction shall have suitable fill material placed and compacted in accordance with the Soils Engineer's report and per sub-section 4 described above in this Section.

9. The Contractor shall verify all earthwork quantities prior to the start of construction. The Contractor shall notify the Owner and Engineer in writing if excess or shortage of earth quantities is encountered and verify requirements for stockpiling, removal or importing earth. Owner and Engineer hereby reserve the right to allow minor adjustments in proposed grades to reduce an earth quantity disparity.

H. SEEDING PREPARATION

1. Contractor shall resolve any surface or subsurface drainage problems and construct permanent erosion control structures.

2. Remove all rocks, roots or other materials that may interfere with seedbed preparation.

3. Perform the major filling, shaping and smoothing of gullied or severely eroded areas.

4. Have soil tested to check pH and fertility levels. Apply lime at rate specified in seeding specifications on the plans.

5. Work all lime and fertilizer into the soil to a depth of 2-3 inches with a small disk, harrow or rake operated across the slope as much as possible.

6. Firm the soil bed where possible. Do not over pack the soil to ensure compacting does not restrict water and root penetration into the soil.

STORM SEWER SYSTEMS

Storm construction procedures, materials, testing, details and specifications ("standards") shall be in accordance with TOWN OF MCCORDSVILLE STORMWATER TECHNICAL AND CONSTRUCTION STANDARDS. INDOT Specifications and Standard Drawings (details) shall be utilized as supplemental information and standards as it relates to this project and construction. Please refer to these standards, specifications, and details for all storm sewer system construction.

SANITARY SEWER SYSTEMS

Sanitary construction procedures, materials, testing, details and specifications shall be in accordance with TOWN OF MCCORDSVILLE WASTEWATER STANDARDS & SPECIFICATIONS. Please refer to these standards, specifications, and details for all sanitary sewer system construction.

WATER & FIRE SUPPRESSION SYSTEMS

Water construction procedures, materials, testing, details and specifications shall be in accordance with TOWN OF MCCORDSVILLE WATER TECHNICAL & CONSTRUCTION STANDARDS. Please refer to these standards, specifications, and details for all water system construction.

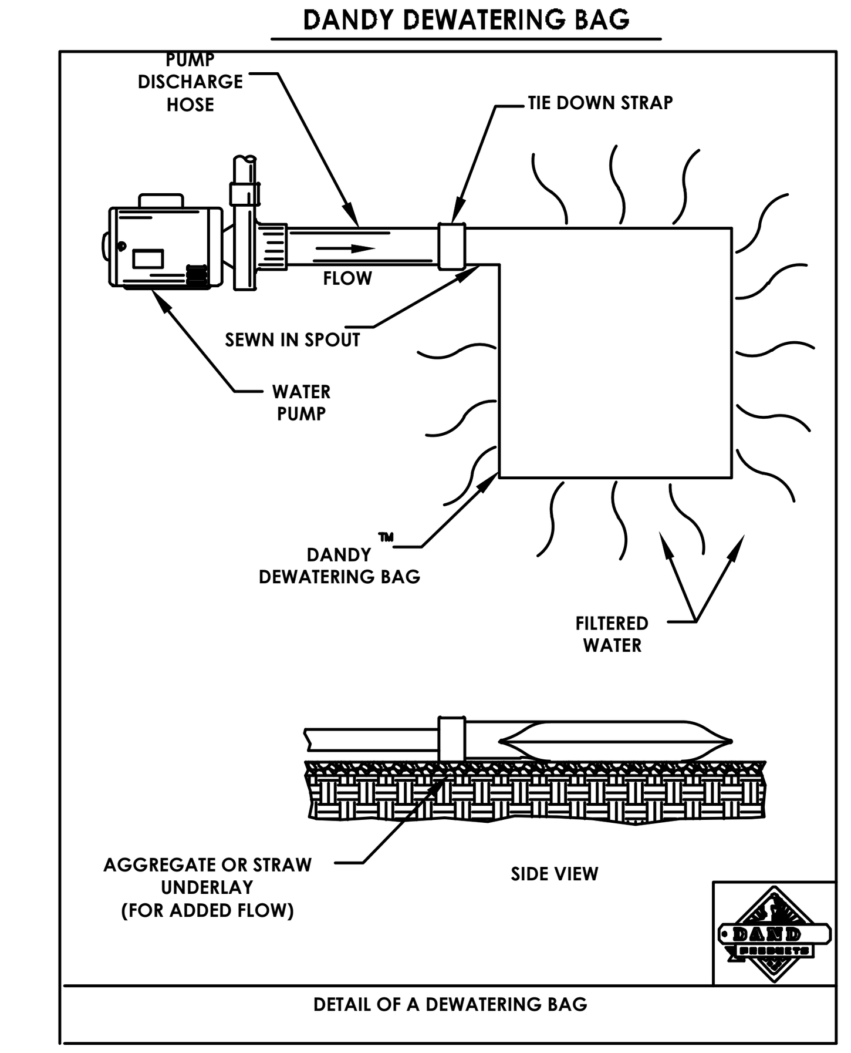
Fire Suppression systems construction procedures, materials, testing, details and specifications shall be in accordance with TOWN OF MCCORDSVILLE WATER STANDARDS AND TOWN OF MCCORDSVILLE FIRE DEPARTMENT STANDARDS AND REQUIREMENTS. Please refer to these standards, specifications, and details for all fire suppression system construction.

DEWATERING AND CONTROL OF SURFACE WATER

Whenever groundwater is encountered, the CONTRACTOR shall make every practical effort to secure a dry trench bottom before laying pipe. The CONTRACTOR shall provide, install and operate sufficient trenches, sumps, pumps, hose, piping, well points, etc. 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 not less than three (3) inches of No. 8 crushed stone in the over-excavated area.

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 from excavations. The diversion and removal of surface and/or groundwater shall be performed in a manner which will prevent the accumulation of water within the construction area. UNDER NO CIRCUMSTANCES SHALL SURFACE WATER AND/OR GROUNDWATER BE DISCHARGED TO, DISPOSED OF OR ALLOWED TO FLOW INTO AN ACTIVE SANITARY SEWER SYSTEM.

DANDY DEWATERING BAG



DETAIL OF A DEWATERING BAG

1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL TOWN OF MCCORDSVILLE CONSTRUCTION STANDARDS AND SPECIFICATIONS (STANDARDS) UNLESS SPECIFICALLY NOTED OTHERWISE.

2. INDIANA STATE DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, TO BE USED WITH THESE PLANS. (SUPPLEMENTAL SPECIFICATIONS)

3. IN THE EVENT THESE PLANS OR SUPPLEMENTAL SPECIFICATIONS ARE IN CONFLICT WITH SAID STANDARDS, THE MORE STRINGENT REQUIREMENTS SHALL BE USED.

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REVISIONS AND ISSUES	DATE	BY

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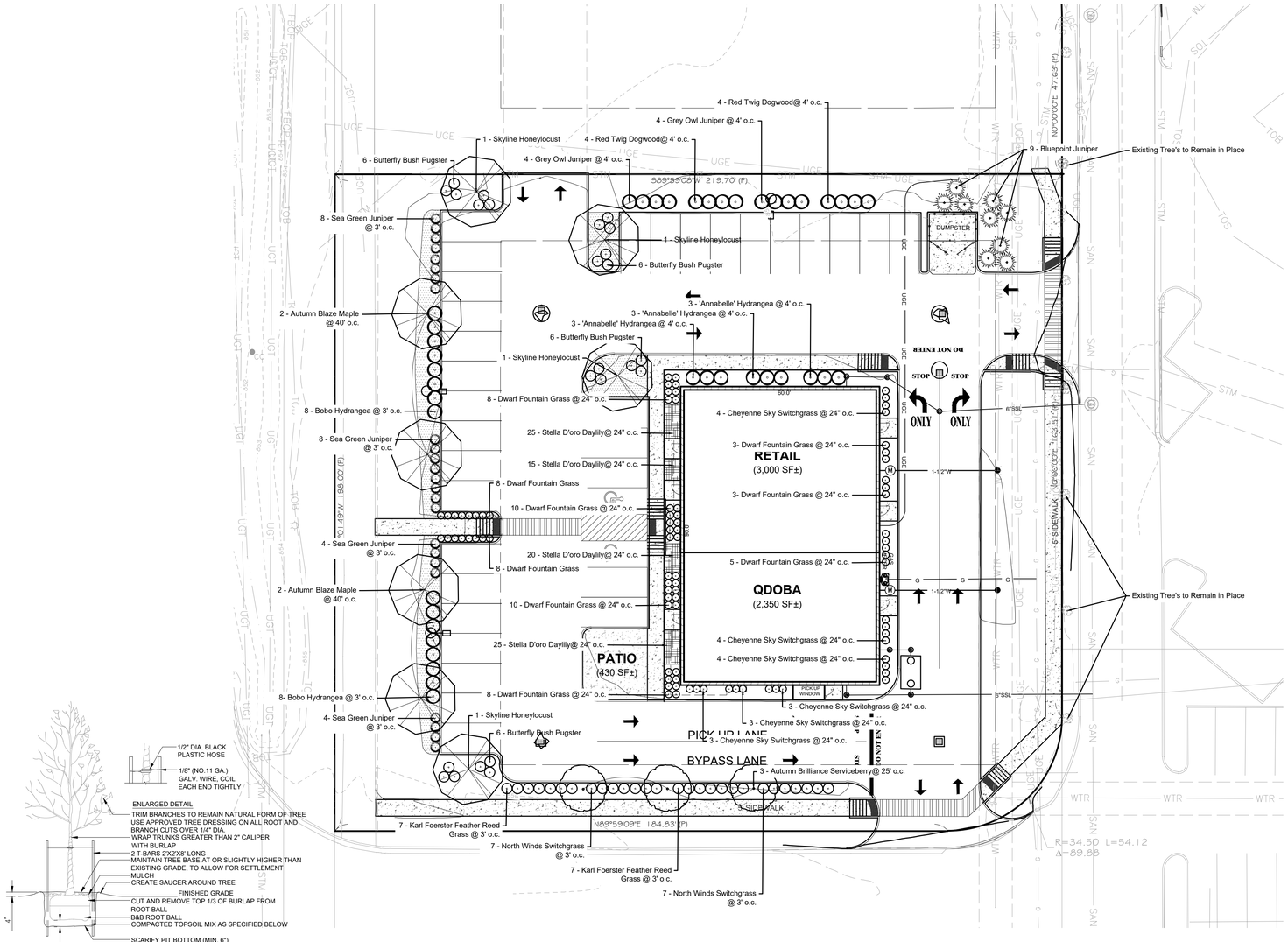
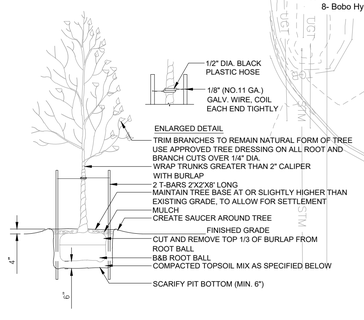
SECTION, TOWNSHIP, RANGE: SW $\frac{1}{4}$, S2, T16N, R5E

CLIENT: JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

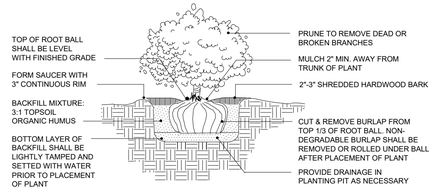
PLAN DATE: 09/22/23		
DESIGN: AF	CHECK: AF	DRAWN: KG
PROJECT NO. 2307011		
SHEET NAME: GENERAL SPECIFICATIONS		
SHEET NO. C901		





SPECIFICATIONS:
1. TOPSOIL MIX. TOP 6 INCHES OF SOIL TO BE A 50/50 MIX OF NATIVE SOIL AND GENERAL PLANTING MIX.
2. DO NOT DAMAGE MAIN ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKE.
3. WATER THOROUGHLY AFTER INSTALLATION.
4. REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATION.
5. PROVIDE DRAINAGE FOR PLANTING PIT IN IMPERMEABLE SOIL.
6. ALL TREES MUST BE TAGGED AND APPROVED BY CONSULTANT WITHIN 14 DAYS AFTER TENDER CLOSING.

DECIDUOUS TREE PLANTING DETAIL



SHRUB PLANTING DETAIL

Quantity	Botanical Name	Common Name	Condition	Size	Comments
Deciduous Trees					
4	Gleditsia triacanthos 'inermis'	Skyline' Honeylocust	B&B	2.5" Cal.	For spacing see plan
3	Amelanchier x grandiflora	Autumn Brilliance Serviceberry	B&B Single	1.5" Cal.	For spacing see plan
4	Acer freemani	Autumn Blaze' Maple	B&B	2.5" Cal.	For spacing see plan
Evergreen Trees					
9	Juniperus chinensis	Blue Point Juniper	Cont.	7'	For spacing see plan
Shrubs					
24	Buddleia x pugster	Butterfly Bush Pugster	Cont.	24"	For spacing see plan
8	Juniperus virginiana 'Grey Owl'	Grey Owl' Juniper	Cont.	24"	For spacing see plan
8	Cornus alba	Red Twig Dogwood	Cont.	24"	For spacing see plan
9	Hydrangea arborescens 'Annabelle	Annabelle Hydrangea	Cont.	24"	For spacing see plan
16	Juniperus chinensis	Sea Green Juniper	Cont.	24"	For spacing see plan
12	Hydrangea paniculata	Bobo' Hydrangea	Cont.	24"	For spacing see plan
Ornamental Grass					
21	Panicum virgatum 'Cheyenne Sky'	Cheyenne Sky Switch Grass	Cont.	#1	For spacing see plan
14	Panicum virgatum 'Northwind'	Northwind Switchgrass	Cont.	#2	For spacing see plan
63	Pennisetum alopecuroides 'Hameln'	Dwarf Fountain Grass	Cont.	#1	For spacing see plan
14	Calamagrostis x acutiflora 'Karl Foerster	Karl Foerster Feather Reed Grass	Cont.	#2	For spacing see plan
Perennials					
75	Salvia Sylvestris	Stella D' Oro Daylily	Cont.	#1	For spacing see plan

PLANT SCHEDULE

SYMBOL LEGEND

PROPOSED CANOPY TREE
PROPOSED ORNAMENTAL TREE
PROPOSED EVERGREEN TREE
PROPOSED SHRUB
MULCH REQUIRED

N

0 20' 40'
SCALE: 1" = 20'

GENERAL NOTES

PLANT MATERIAL SHALL BE SELECTED AND INSTALLED TO COMPLY WITH THE FOLLOWING REQUIREMENTS:

1. LANDSCAPE MATERIALS SELECTED SHALL BE APPROPRIATE TO LOCAL GROWING AND CLIMATE CONDITIONS AND FOLLOW THE GUIDELINES SET BY THE AMERICAN STANDARD FOR NURSERY STOCK. ANSI Z60.1 (CURRENT EDITION) AMERICAN ASSOCIATION OF NURSERYMEN, INC.

2. ALL PLANTS SHALL BE OF SPECIMEN QUALITY, SUPERIOR FORM, HEALTHY, VIGOROUS, WELL BRANCHED, DENSELY FOLIATED WHEN IN LEAF, FREE OF DISEASE AND INSECTS EGGS OR LARVAE AND SHALL HAVE WELL-DEVELOPED ROOT SYSTEMS. PLANTS SHALL BE FREE FROM DAMAGE OR CONDITIONS THAT WOULD PREVENT NORMAL GROWTH.

3. ALL PLANTING MATERIAL SHALL BE IN ACCORDANCE WITH THE MOST CURRENT PUBLICATION OF THE AMERICAN STANDARD FOR NURSERY STOCK AS PRODUCED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE, INC.

a. STREET TREES AND SHADE TREES: ALL STREET TREES AND SHADE TREES AT THE TIME OF PLANTING SHALL HAVE A MINIMUM CALIPER OF TWO AND ONE-HALF (2.5) INCHES WHEN MEASURED FROM SIX (6) INCHES ABOVE GROUND LEVEL.

b. ORNAMENTAL TREES: ALL ORNAMENTAL TREES AT THE TIME OF PLANTING SHALL HAVE A MINIMUM CALIPER OF ONE AND ONE-HALF (1.5) INCHES WHEN MEASURED FROM SIX (6) INCHES ABOVE GROUND LEVEL.

c. EVERGREEN TREES: ALL EVERGREEN TREES AT THE TIME OF PLANTING SHALL HAVE A MINIMUM HEIGHT OF SIX (6) FEET.

d. SHRUBBERY: ALL DECIDUOUS AND EVERGREEN SHRUBS AT THE TIME OF PLANTING SHALL HAVE A MINIMUM HEIGHT OF EIGHTEEN (18) INCHES.

e. GROUND COVER/ORNAMENTAL GRASS: ALL GROUND COVER/ORNAMENTAL GRASS AT THE TIME OF PLANTING SHALL HAVE A MINIMUM SIZE OF ONE (1) GALLON, UNLESS OTHERWISE NOTED ON THE LANDSCAPE PLAN.

4. IRRIGATION SYSTEMS SHALL NOT BE INSTALLED IN THE CITY OWNED RIGHT-OF-WAY WITHOUT APPROVAL BY THE BOARD OF PUBLIC WORKS. THE CITY DOES NOT ASSUME RESPONSIBILITY FOR ANY DAMAGE INCURRED TO AN UNPERMITTED IRRIGATION SYSTEM THAT IS CAUSED BY WORK BEING PERFORMED IN THESE AREAS.

5. IT SHALL BE THE RESPONSIBILITY OF THE OWNERS AND THEIR AGENTS TO INSURE PROPER MAINTENANCE OF ALL TREES, SHRUBBERY AND OTHER LANDSCAPING APPROVED AS PART OF THE DEVELOPMENT PLAN/ADLS PLANS. THIS SHOULD CONSIST OF WATERING, FERTILIZING, PROPER MULCHING, CLEARING OF DEBRIS AND WEEDS, MONITORING FOR PESTS AND DISEASE, MOWING, PRUNING, THE REMOVAL AND TIMELY REPLACEMENT OF DEAD, HAZARDOUS OR DYING PLANTS, TREATING FOR DISEASE OR INJURY, OR ANY OTHER SIMILAR ACT(S) WHICH PROMOTES GROWTH, HEALTH, BEAUTY AND THE LIFE OF TREES, SHRUBS, TURF AND OTHER PLANTS.

PLANT MATERIAL CALCULATIONS TABLE

ZONING CLASSIFICATION, TOWN OF MCCORDSVILLE	SITE IS ZONED CN-NEIGHBORHOOD COMMERCIAL	
	REQUIRED	PROVIDED
MT. COMFORT RD. OVERLAY ZONE.	1 TREE PER 50 LF ALONG MT. COMFORT RD.	4 TREES
BUILDING FOUNDATION	5' WIDE, SHRUBS, ORNAMENTAL GRASS, GROUNDCOVER ON ALL SIDES	5' WIDE, SHRUBS, ORNAMENTAL GRASS, GROUNDCOVER ON ALL SIDES
PARKING LOT INTERIOR	5% OF PARKING LOT SHALL CONTAIN LANDSCAPE AREAS.15,000 SF OF PARKING LOT AREA ON SITE. 1 SHADE TREE PER 2,400SF OF PARKING LOT AREA 1 SHRUB PER 500SF OF PARKING LOT AREA	750 SF OF INTERIOR PARKING LOT LANDSCAPE AREAS 7 TREES 30 SHRUBS
PARKING LOT PERIMETER	36" HIGH SHRUB ROW BETWEEN PARKING LOT AND STREET. NO GAPS IN VEGETATION LARGER THAN 48".	76 SHRUBS
DUMPSTER SCREENING	6' HIGH OPAQUE SCREEN	VEGETATIVE AND ARCHITECTURAL SCREEN

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PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE LAW" 811
Know what's below.
Call before you dig.
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:
QDOBA MEXICAN EATS
MCCORDSVILLE

PROJECT LOCATION:
7419 W. 600 N.
MCCORDSVILLE, INDIANA 46055
HANCOCK COUNTY

SECTION, TOWNSHIP, RANGE:
SW $\frac{1}{4}$, S2, T16N, R5E

CLIENT:
JRF CONSTRUCTION
705 E. MAIN ST.
WESTFIELD, IN 46074

PLAN DATE: 09/22/23

DESIGN:	CHECK:	DRAWN:
AF	AF	KG

PROJECT NO. 2307011
SHEET NAME: LANDSCAPE PLAN
SHEET NO. L101

PRINTED BY: Andrew Fritz
DATE: 9/21/2023 11:46AM
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