

TRI-STATE ENGINEERS AND LAND SURVEYORS, INC.

Civil Engineers • Sanitary Engineers • Municipal Engineers • Land Surveyors • Land Planners 801 W. Street Road Feasterville, Pennsylvania 19053

Telephone: 215-357-5950 Fax: 215-357-2836 Website: www.tse-ls.com

April 4, 2024

Project No: 22-04019

Mr. Kenneth Farrall, PLS, Planning and Zoning Director Bensalem Township 2400 Byberry Road Bensalem, PA 19020

RE: Land Development Plan Review
Galloway & Richlieu Road
TMP # 02-046-001
Bensalem Township, Bucks County, PA
Project No. BTSO.10001

Dear Mr. Farrall:

On behalf of our client, Madurham Farms LP, enclosed please find a resubmission packet consisting of the following documents for the above referenced project:

- 1. *3 hard copies* & 1 *digital copy* Land Development dated July 5, 2022 last revised March 1^{7th}, 2024 (17 sheets)
- 2. *3 hard copies* & 1 *digital copy* Vehicle Turning Plan dated July 5, 2022 last revised March 1st, 2024 (3 sheets)
- 3. *2 Hard copies 1 digital copy –* Traffic Impact Assessment dated November 10th, 2023 last revised march 29th, 2024 prepared by Horner 7 Canter Associates

The following is a point-by-point response (shown in Bold) to TPD's review letter dated January 11, 2024.

ZONING ORDINANCE COMMENTS

The following are comments related to the Township's zoning ordinances:

- 1. Sec. 232-57. Performance standards.
 - a. Woodlands shall be preserved in at least and 50 percent natural open space state where such area contains neither wetlands nor significant natural features. The applicant was granted a variance to disturb 100% disturbance of the woodlands during the ZHB meeting held on August 2, 2018.

Response: No comment

2. Sec. 232-59. – Steep slope overlay.

- a. To minimize stormwater runoff, accelerated soil erosion and resultant stream siltation which may create a danger to life and/or property, all districts regulate the disturbance of steep slopes, the following standards shall apply for all uses:
 - i. No more than 40% disturbance for slopes of 8-15%
 - ii. No more than 30% disturbance for slopes of 15-25%
 - iii. No more than 15% disturbance for slopes of 25% or greater

The applicant was granted a variance for 100% disturbance for all three (3) categories during the ZHB meeting held on August 2, 2018.

Response: No comment

- 3. Sec. 232-152. Use regulations.
 - a. On August 2, 2018, the applicant was granted a variance with conditions for use and keeping with the spirit of the ZHB decision, a revision to the facilities should be revisited due to the lack of parking.

Response: Through conversations with applicant and the township the convenience store use has been removed and a commercial retail store has been proposed instead. Additionally, with the change in facilities, the parking calculation is now compliant.

- 4. Sec. 232-153. Area regulations.
 - a. Not more than 40% of the net lot area may be covered by impervious cover including the building area. The applicant was granted a variance to permit a maximum of 70% of the net lot area to be impervious cover.
 - b. One 35-foot-deep front yard is required. The applicant was granted a variance to permit a front yard with a depth of eight (8) feet.

Response: No comment

- 5. Sec. 232-434. Use regulations.
 - a. Professional services limited to offices of persons that do not involve the actual storage, exchange, or delivery of merchandise on the premises.

i. Commercial facilities (UPS, convenience store and retail) do not meet these definitions for a BP usage.

Response: Through conversations with applicant and the township the convenience store use has been removed and commercial retail store has been proposed instead. Additionally is the zoning approval documents Under the section titled "THE ABOVE APPROVED RELIEF IS SUBJECT TO THE FOLLOWING CONDITIONS" subsection a "states "Permitted uses are limited to: Any use permitted in the BP Business and Professional zoning districts, retail store, restaurant (not including a drive-in restaurant); personal service shop or custom shop; office or studio, including medical office, or urgent care facility or similar medical use." Which allows retail stores.

- 6. Sec. 232-586. Off street parking.
 - a. The applicant identifies that the proposed uses for the 6,200 square foot building consists of three commercial facilities (batteries plus, convenience store, and UPS store).
 - i. All uses, require one (1) parking stall per 100 square feet of gross leasable area plus one (1) space per employee; minimum required parking is 62 parking spaces, not including employees.
 - ii. The applicant proposes 48 parking spaces, revise the plans.

Response: Through conversations with applicant and the township the convenience store use has been removed and a commercial retail store has been proposed instead. Per Sec. 232-586 "Five- and one-half spaces are required per 1,000 feet of gross leasable area" for Strip shopping center and including retail stores. 37 parking spaces (includes 2 Handicap spaces) are proposed bring the parking calculation into compliance.

b. Four (4) ADA spaces are proposed, one shall be a Van accessible ADA parking stall with an eight-foot access aisle, not five-foot access.

Response: The proposed parking lot layout has been revised. Additionally, 2 van accessible spots are now proposed with each 8 foot in width with and 8 foot access and is shown on the plan.

- 7. Sec. 232-587. Loading and unloading space.
 - a. A dedicated loading and unloading space consisting of a minimum of 780 square feet of usable area (12 x 65 feet in size) shall be provided in a location that does not block or interfere with the use of automobile access or parking facilities or pedestrian ways. The applicant was granted a variance

but with the condition to provide a dedicated parking space for deliveries at is applicable for the proposed development.

Response: The proposed parking lot layout has been revised to show a singular load/parking space at the Southern corner of the parking lot.

SUBDIVISION AND LAND DEVELOPMENT ORDINANCE COMMENTS

The following are comments related to the Township's Subdivision and Land Development ordinances:

- 1. Sec. 201-41. Preliminary plan requirements.
 - a. The property boundary line shall be shown in a dark solid line with bearings and distances, which appears to be shown on the plans in a dashed, light gray line. The plans should be revised.

Response: The plans have been revised to show the boundary line as a dark solid line with bearing and distances.

b. The area that is labeled as "PennDOT R.O.W. taking" should be shown also with the bearings and distances. Any restrictions to this easement should be identified on the plans.

Response: The plans have been revised to show the PennDOT taking on the existing features plan. The bearings and distances and plan reference has been added as well.

c. The plans should be updated to include the owners name with a citation with the deed book and page number.

Response: The plans have been revised to state the owners name and instrument number and is shown on the plans.

d. All existing sewer lines, water lines, fire hydrants, utility transmission lines, culverts, bridges, railroads, or other manmade features within the proposed subdivision and/or land development and within 100 feet of the boundaries of the proposed land development. The applicant requests a waiver and requests that an aerial be accepted in lieu of this requirement.

Response: No comment

e. The location, width and purpose of existing easements and utility rights-of-way within 50 feet of the proposed land development should be provided.

Response: There are no easements within 50 feet of the proposed site. Additionally, all existing utilities are located within the public right of way.

f. Contours provided with elevations with reference to NAVD 88 are acceptable to this office.

Response: No comment

Provide dimensions from the ultimate ROW to the building set back lines.

Response: This distance has been shown, additionally the applicant was granted a variance to permit a front yard with a depth of eight (8) feet

g. All street monuments (existing and proposed) should be shown with elevations.

Response: The plans have been updated to show the proposed monumentation. The proposed monumentation elevation will be recorded once they have been installed and will shown on the Final As-built plan.

- 2. Sec. 201-43. Preliminary plan review.
 - a. The applicant requests a waiver for the project to be reviewed concurrently as a preliminary/final plan; this office does not support this action.

Response: We recognize that this comment was based on the initial plan submission. Since the initial plan submission, we met with the township staff (township engineer, fire marshal and zoning officer) and made changes to the layout which addresses their respective comments. Many of the comments have been addressed in the revised plans, leaving a handful of administrative items that occur at the end of the land development process. The Applicant still wants to pursue this waiver request.

- 3. Sec. 201-62. Submission.
 - a. The applicant is required to submit the final plan and make application to the following agencies:
 - i. Pennsylvania Department of Transportation HOP
 - ii. Pennsylvania Department of Environmental Protection Sewage Planning Module

iii. Bucks County Conservation District – Erosion and Sedimentation Control Plan.

Response: Understood.

b. The applicant shall provide a certification of notification of all adjacent property owners.

Response: Understood.

- 4. Sec. 201-106. Environmental protection and open space preservation.
 - a. No proposed gradings shall be permitted within three feet of any site property line, and in no case shall cut and fills endanger adjoining property.
 - i. The applicant requests a waiver of this requirement stating that the grading is necessary to ensure the Stormwater Runoff is directed to the BMP.

Response: No comment.

- b. Street trees shall be planted at intervals of no more than 20 feet or at a greater interval as determined by the Shade Tree Commission in an informal arrangement. Based on length of the future right of way line, 32 Street Trees are required and 26 are proposed.
 - i. The applicant is requesting a partial waiver to this requirement due to conflicts with proposed utilities and grading. This office does not support this request and asks that the trees be rearranged to meet the requirement. The current arrangement has one tree over the proposed storm sewer pipe.

Response: The landscaping has been revised to show 32 proposed street trees. Additionally the waiver is no longer needed and has been removed from the list of waivers requested.

c. Additionally, ten (10) trees per acre of gross site area plus one (1) tree per every five (5) parking spaces shall be planted. A total of 21 lot trees are required; 11 to satisfy the trees per acres and 10 for the parking lot requirement. The applicant proposes to plant 24 lot trees. However, the Plant Schedule identifies 21 trees and the total in the Landscape Compliance Calculation Table is "14". Update the tables to coincide with each other.

Response: The landscaping charts have been revised to show the correct planting count.

- 5. Sec. 201-108. Lot design standards.
 - a. Access to and from the State Highway is requires an application for a permit, submitted to the Pennsylvania Department of Transportation. A copy of the permit must be produced prior to final plan approval.

Response: Understood.

- 6. Sec. 201-110. Curbs.
 - a. The developer must provide curbs along the street. The applicant is requesting a waiver to not provide curbs; this office does not support this waiver as curbing is located at the Southwest corner of the intersection.

Response: The Galloway Road frontage contains an existing roadside swale that carries the stormwater runoff from the road to the inlets at the intersection. This is the most efficient way to carry the stormwater runoff given that Galloway Road does not have much slope. Richlieu Road also has a roadside swale and steep slopes that carries the stormwater runoff from the road towards Bristol Road. If curbs are introduced, then inlets will be required. The nearest stormwater connection point is approximately 850 ft in the northeast direction heading towards Bristol Road. For these reasons, the Applicant is requesting a waiver from installing curbing.

- 7. Sec. 201-111. Sidewalks.
 - a. Sidewalks are required to be installed on the site where necessary. The applicant is requesting a waiver for the sidewalk to not be installed with this development; this office supports this request as there are no sidewalks.
 - i. However, the applicant should provide an ADA compliant refuge area, due to the presence of an existing crosswalk, encouraging pedestrian mobility.

Response: The applicant has eliminated the convenience store use which tends to generate high pedestrian foot traffic. The applicant is proposing a Batteries Plus and UPS store which tends to have less foot traffic given that packages are dropped off and picked up mostly by people driving a vehicle. The Applicant is requesting a waiver from installing sidewalk partly due to less pedestrian traffic generated by the proposed uses and partly since there are existing roadside swales which carry the stormwater runoff and slopes that would prohibit the installation of sidewalk.

- 8. Sec. 201-112. Motor vehicle parking facilities.
 - a. A planting strip (including sidewalk) with an average of ten (10) feet and a minimum width of seven (7) feet shall be provided between the parking area and the outside wall of the nearest building. (Parking area consist of parking spaces, aisles, and driveways).
 - i. The proposed design does not meet this standard as the spaces are approximately 5.5 feet from the face of the building, the plans should be revised.

Response: The design has been revised to show a 9 foot sidewalk between the parking lot and the outside wall of the building.

- b. All parking spaces except for the stalls at the entrance/exit shall be set back at least fifteen (15) feet from the ultimate right-of-way and all property lines.
 - i. Two (2) spaces do not meet this requirement, the dedicated loading parking space, and the southeastern most parking space. The plans should be revised.

Response: The design has been revised to move the parking lot to a minimum of 15 foot from the ultimate right of way and is shown on the plans.

- 9. Sec. 201-115. Water and sewage.
 - a. Fire Hydrants. When water service is proposed to be furnished to any land development, the developer shall, at his own expense and without any cost to the Township, install fire hydrants according to the technical regulations and specifications of the Township. This office defers to the Fire Marshal for the location of any required fire hydrants.

Response: The project layout has been revised to address the Fire Marshall comments.

b. Applicant shall provide to the township a letter of acceptance from BCWSA for water and sewer services.

Response: Understood, Additionally the will serve letter from Aqua has been attached.

STORMWATER MANAGEMENT ORDINANCE COMMENTS

The following are general comments related to the stormwater report and the post construction storm water management plans:

 Applicant should not propose to connect to the State Highway drainage system without approval from PennDOT.

Response: Understood

The following are comments related to the Township's Stormwater Management ordinances:

- 1. Sec. 196-31. General requirements.
 - a. Various BMPs and their design standards are listed in the Pennsylvania Stormwater Best Management Practices Manual (PA BMP Manual). The applicant shall follow all the design standards for MRC design.

Response: The proposed stormwater management system has been designed to the MRCC design standards.

- 2. Sec. 196-33. Erosion and sedimentation control during regulated earth disturbance activities.
 - a. DEP requires an erosion and sediment control plan for any earth disturbance activity of 5,000 square feet or more. The applicant shall provide adequacy letters before final approval is given.
 - b. Bucks County Conservation District requires their approval of an erosion and sedimentation control plan for any earth disturbance activity of 1,000 square feet or more. The applicant shall provide adequacy letters before final approval is given.

Response: An NPDES will be submitted for this project and all correspondence will be forwarded to the township.

- 3. Sec. 196-61. Design criteria.
 - a. Storm sewers (pipes or other structures) shall be reinforced concrete pipe have a minimum grade of $\frac{1}{2}$ 0/0 and a minimum inside diameter of 18 inches. The applicant will need to request a waiver, due to the proposed use of 18-inch HDPE.

Response: This waiver has been requested.

b. Minimum and maximum cover. A minimum of two feet of cover shall be maintained over all storm drain pipes. The top of storm drain pipes shall be at least one-half foot below subgrade evaluation. The maximum cover over storm drainpipes shall be ten feet unless special structural design calculations are submitted or approved. Applicant should adjust any spots along pipe runs that do not have two feet of cover from top of grade. This is critical for any spot that are under pavement.

Response: Pipe inverts have been revised to ensure a minimum of two feet of cover over the proposed pipes.

c. Cuts. No excavation shall be made with a cut face steeper than three-to-one horizontal to vertical, except under the condition in which the material in which the excavation is made is sufficiently stable to sustain a slope of steeper than three horizontal to one vertical. Applicant shall provide details of ponds and any grading that is greater than 3:1 H:V slopes. Any grading shall be adjusted in the design.

Response: The project is not proposing any ponds. All grading is less than a 3:1 slope.

d. The top of such retaining wall shall be four inches above the finished grade line. The detail shows a matching grade. The applicant shall adjust the retaining wall.

Response: The top of wall and detail has been revised to show the top of wall being a minimum of four (4) inches above finished grade

GENERAL COMMENTS:

• Applicant should review the Bucks County Planning Commission Comments letter dated January 10, 2024.

Response: Understood

• Applicant shall update the zoning table to match the area regulations requirements Sec. 232-357.

Response: The zoning section cited in the comment is for the IN Institutional District. The property currently is located in the R-1 zoning district. The zoning table reflects the area regulations of the R-1 zoning district.

• The Applicant is required to submit any plans for business signage as per the approved use.

Response: Understood

 The Applicant is required to enter into a Stormwater Facilities Maintenance and Monitoring Agreement with the Township, which Agreement shall be satisfactory in form and content to the Township Engineer and the Township Solicitor, in their sole discretion.

Response: Understood

Applicants shall obtain all necessary approvals from the Pennsylvania Department
of Transportation, including, but not limited to, an approved Highway Occupancy
permit for the Plan. Submit copies of the PennDOT permits for access and utilities
and cross reference them on the record plan.

Response: Understood

• The applicant shall obtain all necessary approval from the Pennsylvania Department of Environmental Protection, including approval of the Township's Amendment to its 537 Plan.

Response: Understood

If you have any questions or require additional information, please do not hesitate to contact Cody Spadaccino at 215-357-5950 ext. 102.

Sincerely,

Larry Young, P.E.

Tri-State Engineers & Land Surveyors, Inc.

lyoung@tse-ls.com

Encl: Referenced Documents

cc: Kiran Patel

Rosedal Memoria Park **LOCATION MAP**

DULY CERTIES THAT THE TITLE OF THE PROPERTIES PRESENTED ARE IN THE NAME OF AS RECORDED IN THE OFFICE OF RECORDER OF DEEDS, BUCKS COUNTY, PENNSYLVANIA IN PLAN BOOK PAGE

OWNER'S CERTIFICATION OF INTENT

SEND GREETINGS. KNOW YE THAT I (WE) HAVE LAID OUT UPON MY (OUR) LANDS, SITUATE IN THE BENSALEM TOWNSHIP, COUNTY OF BUCKS AND COMM RECORDED. WITNESS MY (OUR) HAND AND SEAL THIS ____ DAY OF ______, 20___.

(NAME OF CORPORATION)

COMMONWEALTH OF PENNSYLVANIA, COUNTY OF BUCKS, ON THE DAY OF , BEFORE ME, THE SUBSCRIBER, A PLAN TO BE THE OFFICIAL PLAN OF PROPERTY SHOWN HEREON, SITUATE IN THE BENSALEM TOWNSHIP, COUNTY OF BUCKS AND COMMONWEALTH OF

PENNSYLVANIA AND DESIRED THAT THIS PLAN BE RECORDED ACCORDING TO LAW. WITNESS MY HAND AND NOTARIAL SEAL THIS ___ DAY OF _____ 20___

MY COMMISSION EXPIRES THE ___ DAY OF ____

NAL ENGINEER OF THE COMMONWEALTH OF PENNSYLVANIA. DO HEREBY CERTIFY THAT THIS PLAN CORRECTLY REPRESENTS THE METES AND BOUNDS, AS SHOWN, AND THE LOTS, LAND, STREETS, HIGHWAYS, EASEMENTS AND UTILITIES AS SURVEYED AND PLOTI

BY ME FOR THE OWNERS OR AGENTS. I FURTHER CERTIFY THAT THIS PLAN MEETS THE REQUIREMENTS OF ALL ORDINANCES AFFECTING THIS SUBDIVISION AND LAND DEVELOPMENT PLAN

INCLUPING THE AMENDED ZONING ORDINANCE OF THE BENSALEM TOWNSHIP, IN WHICH THIS LAND DEVELOPMENT IS LOCATED.

(REGISTRATION NUMBER)

PROFESSIONAL SURVEYOR'S CERTIFICATION

__, A REGISTERED PROFESSIONAL SURVEYOR OF THE COMMONWEALTH OF PENNSYLVANIA, DO HEREBY CERTIFY THAT THIS PLAN CORRECTLY REPRESENTS THE METES AND BOUNDS, AS SHOWN, AND THE LOTS, LAND, STREETS, HIGHWAYS, EASEMENTS AND UTILITIES AS SURVEYED AND PLOTTED BY ME FOR THE OWNERS OR AGENTS.

James A. Dales

(REGISTRATION NUMBER)

TOWNSHIP ENGINEER SUBDIVISION PLAN WAS REVIEWED BY THE TOWNSHIP ENGINEER, _____ ____, P.E., FOR BENSALEM TOWNSHIP ON THIS ______ DAY OF _____20___.

______, P.E. (TOWNSHIP ENGINEER) (REGISTRATION NUMBER)

APPROVAL OF THE BUCKS COUNTY PLANNING COMMISSION

PROCESSED AND REVIEWED. REPORT PREPARED BY THE BUCKS COUNTY PLANNING COMMISSION IN ACCORDANCE WITH THE MUNICIPALITIES PLANNING CODE CERTIFIED THIS DATE _____

CHAIRMAN, BUCKS COUNTY PLANNING COMMISSION

EXECUTIVE DIRECTOR, BUCKS COUNTY PLANNING COMMISSIO APPROVAL OF THE COUNCIL OF THE TOWNSHIP OF BENSALEM THIS PLAN WAS APPROVED BY THE COUNCIL OF THE TOWNSHIP OF BENSALEM THIS _____ DAY OF _____, 20__.

WETLANDS CERTIFICATION

(WETLANDS STUDY CONSULTANT)

CERTIFICATION FOR RECORDING

ECORDED IN THE OFFICE OF RECORDER OF DEEDS AT DOYLESTOWN, PENNSYLVANIA IN PLAN BOOK __ PAGE __ ON THE __ DAY OF _____, 20__.

(RECORDER OF DEEDS)

ALL DOCUMENTS PREPARED BY TRI-STATE ENGINEERS & LAND SURVEYORS, INC., ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY TRI-STATE ENGINEERS & LAND SURVEYORS, INC., FOR THE SPECIFIC PURPOSE INTENDED WILL BE THE OWNERS SOLE RISK AND WITHOUT LIABILITY OR

LEGAL EXPOSURE TO TRI-STATE ENGINEERS & LAND SURVEYORS, INC., AND OWNER SHALL INDEMNIFY AND HOLD

HARMLESS TRI-STATE ENGINEERS & LAND SURVEYORS, IN

FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

Pennsylvania One Call System, Inc. SERIAL NO. 2022-1160890 Call Before You Dig in Pennsylvania 1-800-242-1776

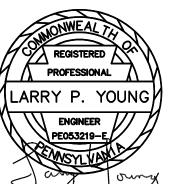
State Law Requires Construction Phase: Three working Days Notice Design Phase: Ten working Days Notice Facility Owners: Member of One Call System

<u>OWNER OF RECORD:</u> MR. KIRAN PATEL 5 WEST BRISTER ROAD ENSALEM, PA 19020 APPLICANT: MR. KIRAN PATEL

Date: Scale: 7/05/2022 1"=30' 22-04019 √creage No. of Lots SEE TABLES 415 WEST BRISTER ROAD BENSALEM, PA 19020 |Checked By: esigned By: |Drawn By: STAFF STAFF L.Y.

3/17/24 CLS TOWNSHIP ENGINEERS REVIEW LETTER DATE DRAWN E REVISION DESCRIPTION SCALE IN FEET

TRI-STATE ENGINEERS & LAND SURVEYORS, INC. CIVIL ENGINEER ● MUNICIPAL ENGINEERS ● LAND SURVEYORS ● LAND PLANNERS ● LANDSCAPE ARCHITECT 801 WEST STREET ROAD, FEASTERVILLE, PENNSYLVANIA 19053 PHONE: 215-357-5950



LAND DEVELOPMENT PLAN

PRELIMINARY/FINAL

CORNER OF RICHLIEU ROAD & GALLOWAY ROAD TMP 02-046-001 **BENSALEM TOWNSHIP BUCKS COUNTY PENNSYLVANIA** SHEET 1 OF 17

SLOPE LAND HYDRIC HYDRO. DEPTH TO GROUP BEDROCK WATER TABLE LIMITATIONS FOR RESOLUTION OF SYMBOL MAPPING UNITS LIMITATIONS CONSTRUCTION URBAN LAND-0-8% 8s-6w NO B/D 60-99 IN 6-72 IN DOYLESTOWN COMPLEX

YES | C/D | 60-99 IN | 6-72 IN

** THE SOILS SHOWN HEREON ARE BASED ON THE WEB SOIL SURVEY PREPARED BY SOIL SURVEY STAFF, NATURAL RESOURCES CONSERVATION SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE.

GENERAL NOTES:

- 1. SITE ADDRESS: CORNER OF RICHLIEU ROAD & GALLOWAY ROAD, BENSALEM PA, 19020.
- TAX MAP PARCEL: 02-046-001; AREA TO THE TITLE LINE=74,903.61 S.F./1.72 ACRES. AREA TO THE ULTIMATE R.O.W. LINE (INCLUDING PENNDOT TAKING) = 48,064.88 S.F./1.10 ACRES. INSTRUMENT NUMBER FOR T.M.P. 05-071-326 IS 2017035526.
- 3.1 ZONING PLAN OF "T.M.P 02-046-001", DATED JUNE 12, 2018, AS JOB NUMBER 20180020, PREPARED BY PICKERING, CORTS, AND SUMMERSON, CONSULTING ENGINEERS AND LAND SURVEYORS. 3.2 DEEDS AND TAX MAPS.
- THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT.
- 5. A BOUNDARY AND TOPOGRAPHIC SURVEY WAS PERFORMED BY TRI-STATE ENGINEERS AND LAND SURVEYORS, INC. IN APRIL 2022.
- THE HORIZONTAL DATUM FOR THIS PLAN IS PREPARED THE ON THE STATE PLANE COORDINATE SYSTEM. THE ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
- RICHLIEU ROAD (SHOWN), INV. ELEV. = 103.28. 9. THE PROPERTY IS DESIGNATED AS ZONE X (AREAS TO BE DETERMINED TO BE OUTSIDE THE 500 YEAR FLOODPLAIN AS SHOWN ON THE F.E.M.A. FLOOD INSURANCE RATE MAP OF BUCKS COUNTY, MAP NUMBER 42017C0439J, EFFECTIVE DATE MAY 18, 1999, LAST REVISED MARCH 16, 2015.

8. SURVEY BENCHMARK = INVERT OUT STORM INLET LOCATED ON CORNER OF CURB ISLAND ALONG GALLOWAY ROAD NEAR INTERSECTION WITH

- 10. TRI-STATE ENGINEERS AND LAND SURVEYORS, INC. IS NOT RESPONSIBLE AS TO THE ACCURACY OF THE INFORMATION OBTAINED FROM VARIOUS SOURCES. WHERE PROPOSED UTILITIES CROSS OR CONNECT TO EXISTING UTILITIES, PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE SPECIFIC DEPTHS, INVERTS, CLEARANCES, MATERIAL, AND SIZES OF THE UTILITIES INVOLVED. IF THE CONTRACTOR DETERMINES THAT DISCREPANCIES OR CONFLICTS EXIST, THE FIELD INFORMATION SHALL BE FORWARDED TO THIS OFFICE FOR REVIEW AND FIELD CHANGES MUST BE APPROVED BY THIS OFFICE. TEST PITS SHALL BE INCLUDED IN THE CONTRACTORS BID. NO IMPROVEMENTS SHALL BE INSTALLED UNTIL SUCH TIME THIS OFFICE APPROVES OF A FIELD CHANGE.
- 11. NATURAL STEEP SLOPES EXISTS ON THIS PROPERTY. 12. NO FLOODPLAINS EXIST ON THIS PROPERTY.
- 14. A PENNSYLVANIA ONE-CALL WAS MADE IN APRIL, 2022 FOR THE REFERENCED SITE AND SERIAL # 2022-1160890 WAS ASSIGNED.
- 15. THERE ARE NO CURRENT DEED RESTRICTIONS OR EXISTING EASEMENTS IMPOSED ON THIS PROPERTY.

SITE DATA					
SITE ADDRESS:	Corner Of Richlieu Road And Galloway Road,	Bensalem, PA 19020			
TAX MAP NO.: 02-04	6-001 (BENSALEM TOWNSHIP)				
ZONE	R-1 (Single Family District)				
SITE AREA	02-046-001	74,903.60	SQ. FT.	To the Deed Line	
ZONING DATA					
ZOMING DATA			EXISTING 02-046-		
		REQUIRED	001		
MIN. LOT AREA (SF)		12,000	74,903.60		
MIN. LOT WIDTH (FT.	.)	80	>80		
MAX. IMPERVIOUS S	URFACE (%)	35	0.00		
MINIMUM FRONT YA	RD (FT.)	35.00	35.00		
MINIMUM SIDE YARE) (FT.)	12/30	N/A		
MINIMUM REAR YARD (FT.)		30.00	30.00		
MAXIMUM BUILDING HEIGHT (FT.) (STORIES)		35.00	N/A		
MAXIMUM BUILDING COVERAGE (%)		30.00	0.00		
IMPERVIOUS SURFA	CE BREAKDOWN				
			EXISTING 02-046-		
DESCRIPTION			001		
BUILDINGS			0.00		
PARKING AREAS			0.00		
DUMPSTER AREAS			0.00		
WALKS, STEPS, ETC.			0.00		
PATIOS/PADS			0.00		
MISC.			0.00		
	TOTAL		0.00		

LOCATION MAP SCALE: 1" = 800'

Rosedale

Memorial

Park

LEGEND

EXISTING PROPERTY BOUNDARY

- EXISTING EDGE OF PAVEMENT *—— –115– ——*

EXISTING CONTOURS

___ __ EXISTING STORM SEWER

___ SOIL BOUNDARY LINE _____S____EXISTING SANITARY MAIN

 $-\!-\!-\!-\!W$ $-\!-\!-\!-$ Existing water main ----- OHW ----- EXISTING OVERHEAD ELECTRIC EXISTING ADJOINING PROPERTY

> EXISTING UTILITY POLES

> > EXISTING SPOT ELEVATION

EXISTING T.G. INLET

EXISTING SANITARY MH

EXISTING WATER VALVE

EXISTING IRON PIN

EXISTING TRAFFIC SIGN EXISTING BOUNDARY SOILS TYPE

SOIL TEST PIT

EXISTING FIRE HYDRANT FH 💢 EXISTING UTILITY POLE

SITE BENCHMARK

EXISTING TREES TO BE REMOVED

ALL DOCUMENTS PREPARED BY TRI—STATE ENGINEERS & LAND SURVEYORS, INC., ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY TRI—STATE ENGINEERS & LAND SURVEYORS, INC., FOR THE SPECIFIC PURPOSE INTENDED WILL BE THE OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO TRI—STATE ENGINEERS & LAND SURVEYORS, INC., AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS TRI—STATE ENGINEERS & LAND SURVEYORS, INC., FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

DOYLESTOWN SILT LOAM | 0-3% | 4w

Pennsylvania One Call System, Inc. SERIAL NO. 2022-1160890 Call Before You Dig in Pennsylvania 1-800-242-1776

State Law Requires Construction Phase: Three working Days Notice Design Phase: Ten working Days Notice Facility Owners: Member of One Call System

OWNER OF RECORD: MR. KIRAN PATEL BENSALEM, PA 19020 <u>APPLICANT:</u> MR. KIRAN PATEL

TO SATURATED

22-04019 Acreage SEE TABLES 415 WEST BRISTER ROAD BENSALEM, PA 19020

HAVE BYPASS PUMP(S) &

FILTER BAG(S) AVAILABLE. SEE DETAIL.

Date: Scale: 7/05/2022 1"=30' No. of Lots REVISION Checked By: esigned By: |Drawn By: STAFF STAFF L.Y.

FLOODPLAINS

WOODLANDS

WETLANDS

FLOODPLAIN SOILS

STEEP SLOPES (25% OR MORE)

STEEP SLOPES (15% - 25%)

STEEP SLOPES (8% - 15%)

PROTECTION

RATIO

100%

100%

100%

85%

70%

60%

50%

TOTAL

* - DENOTE ZONING VARIANCES HAVE BEEN APPROVED FOR 100% USE WOODLANDS AND STEEP SLOPES DISTURBANCE

3/17/24 CLS TOWNSHIP ENGINEERS REVIEW LETTER DATE DRAWN E DESCRIPTION SCALE IN FEET

APPLICABLE

0.036

0.083

0.142

0.73

1.72

1.72

1.72

1.72

BE PROTECTED

RATIO X APPL.

N/A

N/A

N/A

0.0306

0.0581

0.0852

0.365

DISTURBED

N/A

N/A

N/A

0.018*

0.064*

0.095*

0.73*

DISTURBANCE

N/A

N/A

N/A

0.0054

0.0249

0.0568

0.365

DISTURBED

N/A

N/A

N/A

50

77.11

66.90

100.00

PROTECTED

(100%)

N/A

N/A

N/A

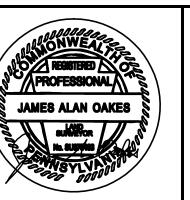
50

22.89

33.10

0.00

TRI-STATE ENGINEERS & LAND SURVEYORS, INC. CIVIL ENGINEER ● MUNICIPAL ENGINEERS ● LAND SURVEYORS ● LAND PLANNERS ● LANDSCAPE ARCHITECT 801 WEST STREET ROAD, FEASTERVILLE, PENNSYLVANIA 19053 PHONE: 215-357-5950



PRELIMINARY/FINAL

EXISTING FEATURES PLAN

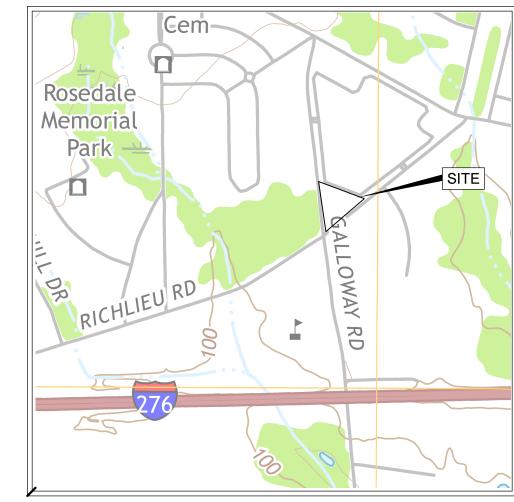
CORNER OF RICHLIEU ROAD & GALLOWAY ROAD TMP 02-046-001 **BENSALEM TOWNSHIP BUCKS COUNTY PENNSYLVANIA** SHEET 2 OF 17

GRADING AND DRAINAGE NOTES:

- 1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY, THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
- 2. SITE GRADING MUST BE PERFORMED IS ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AS REFERENCED IN THIS PLAN SET. IF NO GEOTECHNICAL REPORT HAS BEEN REFERENCED, THE CONTRACTOR NUST HAVE A GEOTECHNICAL ENGINEER PROVIDE WRITTEN SPECIFICATIONS AND RECOMMENDATIONS PRIOR TO THE CONTRACTOR COMMENCING THE FOOTINGS FOR THE DWELLINGS. THE CONTRACTOR MUST FOLLOW THE REQUIREMENTS OF ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS, WHICH HAVE JURISDICTION OVER THIS PROJECT.
- THE CONTRACTOR IS REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF-SITE SOURCES AND DISPOSAL FACILITIES. THE CONTRACTOR MUST SUPPLY A COPY OF APPROVALS TO THE PROFESSIONAL OF RECORD AND THE OWNER PRIOR TO THE CONTRACTOR COMMENCING ANY WORK.
- TO COMMENCING ANY CONSTRUCTION. SHOULD DISCREPANCIES BETWEEN THE PLANS AND INFORMATION OBTAINED THROUGH FIELD VERIFICATIONS BE IDENTIFIED OR EXIST, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROFESSIONAL OF RECORD, IN WRITING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ALL UNSUITABLE MATERIALS WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. THE CONTRACTOR MUST COMPACT ALL EXCAVATED OR FILLED AREAS IN STRICT ACCORDANCE WITH THE GEOTECHNICAL REPORT'S GUIDANCE. MOISTURE CONTENT AT TIME OF PLACEMENT MUST BE SUBMITTED IN A COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED. THIS REPORT MUST VERIFY THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES WHICH ARE IN FEFECT AND WHICH ARE APPLICABLE TO THE PROJECT. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT MUST BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE BY OWNER/DEVELOPER, OR OWNER/DEVELOPER'S REPRESENTATIVE, SUBBASE MUST BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL, COMPACTED AS THE GEOTECHNICAL REPORT DIRECTS. EARTHWORK ACTIVITIES INCLUDING, BUT NOT LIMITED TO, EXCAVATION, BACKFILL, AND COMPACTING MUST COMPLY WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. EARTHWORK ACTIVITIES
- 6. IN THE EVENT OF A DISCREPANCY(IES) AND/OR A CONFLICT(S) BETWEEN PLANS, OR RELATIVE TO OTHER PLANS, THE GRADING PLAN TAKES PRECEDENCE AND CONTROLS. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROFESSIONAL OF RECORD, IN WRITING, OF ANY
- THE CONTRACTOR IS RESPONSIBLE TO IMPORT FILL OR EXPORT EXCESS MATERIAL AS NECESSARY TO CONFORM TO THE PROPOSED GRADING, AND TO BACKFILL EXCAVATIONS FOR THE INSTALLATION OF UNDERGROUND IMPROVEMENTS.

8. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE PAVEMENT GRADE.

- THE CONTRACTOR MUST ENSURE THAT POSITIVE DRAINAGE IS PROVIDED IN BOTH PAVED AND LAWN AREAS AFTER CONSTRUCTION. THE MINIMUM SLOPES FOR IMPROVEMENTS ARE 1% ON ALL CONCRETE AND ASPHALT SURFACES, (EXCEPT WHERE ADA LIMITS SLOPE), AND 1.0% IN LAWN AREAS. ANY LOCALIZED DEPRESSIONS MUST BE ELIMINATED.
- 10. THE CONTRACTOR MUST ENSURE POSITIVE DRAINAGE AWAY FROM STRUCTURES. WHERE THE GRADING ALONG AND ADJACENT TO A BUILDING ARE SCHEMATIC DUE TO A GENERIC BUILDING FOOTPRINT, THE GRADES MUST BE ADJUSTED BASED ON FINAL ARCHITECTURAL
- 11. WHERE SUBGRADE BUILDING AREAS(I.E. BASEMENT AND CRAWL SPACES) ARE PROVIDED, THE CONTRACTOR MUST DETERMINE THE DEPTH TO GROUNDWATER AT THE LOCATION OF THE PROPOSED SUBGRADE BUILDING AREA. WHERE GROUNDWATER IS ENCOUNTERED AT THE ELEVATION OF THE SUBGRADE BUILDING AREA, APPROPRIATE CONSTRUCTION METHODS SHALL BE EMPLOYED TO PREVENT GROUNDWATER FROM ENTERING THE STRUCTURE(S), IE AND WHERE SUMP PUMPS ARE PROVIDED, ALL DISCHARGES MUST BE CONNECTED TO THE STORM SEWER OR OTHERWISE PROTECTED FROM CAUSING SURFACE RUNOFF EROSION. THE BUILDING WILL NOT HAVE BASEMENTS/CRAWL
- 13. THE TOP AND BOTTOM OF WALL ELEVATIONS (TW & BW) REPRESENT THE PROPOSED FINISHED GRADE AT THE FACE OF THE WALL AND DO NOT REPRESENT THE ELEVATION OF THE PROPOSED WALL, WHICH MAY INCLUDE CAP UNITS AND FOOTINGS. WALL FOOTINGS/FOUNDATION ELEVATIONS ARE NOT IDENTIFIED HEREIN AND ARE TO BE SET/DETERMINED BY THE CONTRACTOR BASED ON FINAL STRUCTURE DESIGN SHOP DRAWINGS PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED IN THE STATE WHERE THE CONSTRUCTION OCCURS. THE
- CONTRACTOR MUST ENSURE THAT THE WALLS SHOWN HEREON MUST BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER AND THAT SIGNED AND SEALED SHOP DRAWINGS ARE APPROVED BY THE MUNICIPALITY PRIOR TO THEIR CONSTRUCTION. ADDITIONALLY, THE CONTRACTOR SHALL ENSURE THAT FENCING, GUIDERAIL, UTILITIES, AND OTHER SITE FEATURES IN THE VICINITY OF THE WALL(S), SHALL BE CONSIDERED AND INCORPORATED INTO THE RETAINING WALL DESIGNS (BY OTHERS).
- 16. BURYING OF TREES, STUMPS, OR CONSTRUCTION MATERIAL IS PROHIBITED. TREES AND STUMPS MAY BE CHIPPED OR GROUND AND SPREAD 17. CONTRACTOR SHALL NOT ENCROACH ONTO ADJOINING PROPERTIES UNLESS A TEMPORARY CONSTRUCTION EASEMENT HAS BEEN GRANTED BY THE ADJOINING PROPERTY OWNER. CONTRACTOR SHALL HAVE PROPERTY LINES CLEARLY MARKED IN AREAS WHERE GRADING WILL ENCROACH WITHIN 5 FEET OF THE PROPERTY LINE BY A LICENSED SURVEYOR, AND SHALL CONSTRUCT SUCH BARRIERS WHICH ARE
- NECESSARY TO PREVENT ENCROACHMENT ONTO ADJACENT PROPERTIES. 18. NO EXCAVATION OR FILL SHALL BE MADE WITH A FACE DEEPER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).
- 19. TOPSOIL SHALL BE RETURNED TO A MINIMUM DEPTH OF 6 INCHES. 20. SIGHT DISTANCES INDICATED SHALL BE MAINTAINED BY CLEARING AND GRADING AS NECESSARY TO PROVIDE THE "REQUIRED" SIGHT DISTANCES. NO OBSTRUCTIONS TO VISIBILITY BETWEEN A VERTICAL PLANE OF 2 FEET TO 10 FEET ABOVE THE CENTERLINE OF THE STREET-LEVEL SO AS TO INTERFERE WITH TRAFFIC VISIBILITY ACROSS THE CORNER OF THE YARD WHICH IS IN THE SITE TRIANGLES INDICATED ON THE
- 21. SURVEY BENCHMARK = INVERT OUT STORM INLET LOCATED ON CORNER OF CURB ISLAND ALONG GALLOWAY ROAD NEAR INTERSECTION WITH RICHLIEU ROAD (SHOWN), INV. ELEV. = 103.28.
- 22. NO PERSON SHALL MODIFY, REMOVE, FILL, LANDSCAPE, OR ALTER ANY EXISTING STORM WATER CONTROL OR BMP UNLESS IT IS PART OF AN APPROVED MAINTENANCE PROGRAM, WITHOUT THE WRITTEN APPROVAL OF THE MUNICIPALITY.
- 23. NO PERSON SHALL PLACE ANY STRUCTURE, FILL, LANDSCAPING, OR VEGETATION INTO A STORM WATER CONTROL OR BMP WITHIN A DRAINAGE EASEMENT, WHICH WOULD LIMIT OR ALTER THE FUNCTIONING OF THE STORM WATER CONTROL OR BMP, WITHOUT THE WRITTEN APPROVAL OF THE MUNICIPALITY.
- 24. THE STORMWATER FACILITIES AND FINAL GRADING SHOWN ON THESE PLANS AREA BASIC AND PERPETUAL PART OF THE STORMWATER MANAGEMENT SYSTEM OF THE PROPOSED SITE LOCATED IN BENSALEM TOWNSHIP, BUCKS COUNTY, COMMONWEALTH OF PENNSYLVANIA, AND SUCH ARE TO BE PROTECTED AND PRESERVED IN ACCORDANCE WITH THE APPROVED FINAL PLANS BY THE OWNERS, THEIR SUCCESSORS AND ASSIGNS OF THESE LANDS. BENSALEM TOWNSHIP AND/OR ITS AGENTS RESERVE THE RIGHT AND PRIVILEGE TO ENTER UPON THESE LANDS FROM TIME TO TIME FOR THE INSPECTION OF THESE FACILITIES IN ORDER TO DETERMINE THAT PROPER OPERATION
- 25. ANY SWALES OF SLOPES GREATER THAN 3:1 SHALL HAVE EROSION CONTROL MATTING INSTALLED ON THEM. 26. THERE SHALL BE A 10 FEET HORIZONTAL SEPARATION OF BETWEEN WATER AND SEWER LATERALS. IF THIS CAN NOT BE OBTAINED THAN THERE MUST BE A 1.5 FOOT VERTICAL SEPARATION BETWEEN THE WATER AND SEWER LATERALS.



LOCATION MAP

ALL DOCUMENTS PREPARED BY TRI-STATE ENGINEERS & LAND SURVEYORS, INC., ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY TRI-STATE ENGINEERS & LAND SURVEYORS, INC., FOR THE SPECIFIC PURPOSE INTENDED WILL BE THE OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO TRI-STATE ENGINEERS & LAND SURVEYORS, INC., AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS TRI-STATE ENGINEERS & LAND SURVEYORS, INC FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

Pennsylvania One Call System, Inc.

SERIAL NO. 2022-1160890 Call Before You Dig in Pennsylvania 1-800-242-1776

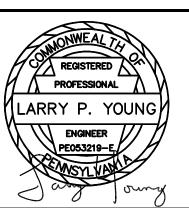
State Law Requires Construction Phase: Three working Days Notice Design Phase: Ten working Days Notice Facility Owners: Member of One Call System

OWNER OF RECORD: MR. KIRAN PATEL 5 WEST BRISTER ROAD <u>APPLICANT:</u> MR. KIRAN PATEL 415 WEST BRISTER ROAD BENSALEM, PA 19020

Date: Scale: 7/05/2022 1"=30' 22-04019 √creage No. of Lots SEE TABLES |Checked By: esigned By: |Drawn By: STAFF STAFF L.Y.

3/17/24 CLS TOWNSHIP ENGINEERS REVIEW LETTER DATE DRAWN E REVISION DESCRIPTION SCALE IN FEET

TRI-STATE ENGINEERS & LAND SURVEYORS, INC. CIVIL ENGINEER • MUNICIPAL ENGINEERS • LAND SURVEYORS• LAND PLANNERS• LANDSCAPE ARCHITECT 801 WEST STREET ROAD, FEASTERVILLE, PENNSYLVANIA 19053 PHONE: 215-357-5950



GRADING PLAN CORNER OF RICHLIEU ROAD &

BUCKS COUNTY PENNSYLVANIA

PRELIMINARY/FINAL

SHEET 3 OF 17 GALLOWAY ROAD TMP 02-046-001 **BENSALEM TOWNSHIP**

GENERAL NOTES:

- SITE ADDRESS: CORNER OF RICHLIEU ROAD AND GALLOWAY ROAD, BENSALEM, PA 19020 2. TAX MAP PARCEL: 02-046-001;
- AREA TO THE DEED LINE=74,903.60 S.F./1.7196 ACRES
- . AREA TO THE ULTIMATE RIGHT-OF-WAY LINE=75,918.7 S.F./1.1034 ACRES TOTAL AMOUNT OF IMPERVIOUS SURFACE = 29,047.60 SF
- TOTAL EARTH DISTURBANCE 1.30 ACRES I, LARRY YOUNG, P.E., ON MARCH 29, 2021, HEREBY CERTIFY THAT THE SWM SITE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE NESHAMINY CREEK WATERSHED ACT 167 STORMWATER MANAGEMENT ORDINANCE OR PLAN.

THE BUCKS COUNTY CONSERVATION DISTRICT.

7. I, MADHURAM FARMS, LP, ACKNOWLEDGE THAT ANY REVISION TO THE APPROVED SWM SITE PLAN MUST

8. NO CHANGES IN FINISH GRADE TO FINISH GRADING CAN OCCUR AT ANY TIME IN THE FUTURE WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE TOWNSHIP.

BE APPROVED BY THE TOWNSHIP AND THAT A REVISED E&S PLAN MAY BE REQUIRED TO BE SUBMITTED TO

9. BICYCLE SAFE GRATES SHALL BE USED FOR ALL INLETS WITHIN THE PROJECT LIMITS.

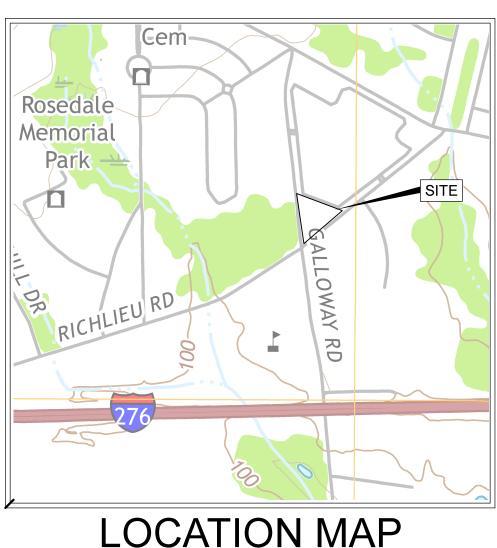
SEQUENCE OF CONSTRUCTION

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY THOSE AREAS

- 1. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARER, AND THE BUCKS COUNTY CONSERVATION DISTRICT TO AN ON-SITE MEETING. ALSO, AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR BURIED UTILITIES LOCATIONS. 2. INSTALL COMPOSITE FILTER SOCK, ORANGE CONSTRUCTION FENCING AROUND BMP'S, AND TREE PROTECTION FENCE
- THROUGHOUT THE SITE AS INDICATED ON THE E&S PLAN. INSTALL ROCK CONSTRUCTION ENTRANCES AT EACH DRIVEWAY. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED
- THROUGHOUT THE PROJECT. ROADWAYS SHALL BE KEPT FREE OF SEDIMENT, SOIL, AND MUD AT ALL TIMES. REMOVE TREES FROM DISTURBED AREAS. CLEAR AND GRUB THE SITE AREA. STOCKPILE TOPSOIL IN THE DESIGNATED AREA, INSTALL COMPOSITE FILTER SOCK, AND TEMPORARY SEED.
- ROUGH GRADE THE SITE AREA AND PREP BUILDING PAD. INSTALL CONCRETE WASHOUT AREA. CONSTRUCT SUBSURFACE MRC BASIN, ALL INLETS AND STORM STRUCTURES. SEAL OFF ALL INLETS AND STORM MANHOLES
- UNTIL SITE HAS BEEN COMPLETED STABILIZED. INSTALL ALL CURB AND SIDEWALK THROUGHOUT THE SITE. INSTALL BASE COURSE PAVING THROUGH THE SITE. SITE AND ROADWAY ARE TO BE SWEPT AS NEEDED TO NOT ALLOW DIRT
- OR DEBRIS TO ENTER ROADWAY. 11. POUR FOOTING AND CONSTRUCT BUILDING.
 12. INSTALL WATER AND SEWER SERVICE LINES FOR EACH BUILDING.
 13. INSTALL REMAINING UNDERGROUND UTILITIES INCLUDING ELECTRIC, TELEPHONE, GAS, ETC.
- 4. FINAL GRADE THE SITE AREA. UPON COMPLETION OF THE FINAL GRADING, INSTALL LANDSCAPING AND APPLY PERMANENT SEEDING AND MULCH UNTIL PROPER VEGETATIVE COVER IS ESTABLISHED. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED
- FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS. ALL SWALES SHALL EITHER BE SODDED OR EROSION CONTROL MATTING (SC150) SHALL BE USED. 15. ONCE ALL GRADING AND LANDSCAPING ACTIVITIES HAVE BEEN COMPLETED AND ALL CONSTRUCTION ACTIVITIES HAVE BEEN
- COMPLETED, INSTALL FINAL WEARING COURSE AND LINE STRIPING 16. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED AND WITH THE RECOMMENDATION OF THE BUCKS COUNTY CONSERVATION DISTRICT, REMOVE COMPOSITE FILTER SOCK, INLET PROTECTION, TREE PROTECTION FENCE, AND ORANGE CONSTRUCTION FENCE.
 AREAS DISTURBED DURING REMOVAL OF THE ES CONTROLS MUST BE STABILIZED IMMEDIATELY. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND
- SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS. 17. CONSTRUCTION ACTIVITIES ARE EXPECTED TO COMMENCE IN SPRING OF 2024 AND BE COMPLETED WITHIN ONE (1) YEAR.

BMP CONSTRUCTION SEQUENCE

- 1. PROTECT SUBSURFACE INFILTRATION SYSTEM AREAS FROM COMPACTION PRIOR TO INSTALLATION. STOCKPILES SHALL NOT BE PLACED OVER SUBSURFACE INFILTRATION SYSTEMS.
- 2. INSTALL INFILTRATION SYSTEM AS NOTED IN THE CONSTRUCTION SEQUENCE. AFTER INSTALLATION, PREVENT SEDIMENT LADEN WATER FROM ENTERING INLETS AND PIPES.
- 3. COMPACTION OF THE SOIL AT THE SUBSURFACE INFILTRATION SYSTEMS SHALL NOT OCCUR. THE FOLLOWING METHODS ARE EXAMPLES OF HOW COMPACTION COULD BE AVOIDED.
- EXCAVATION AND GRADING OF THE PROPOSED INFILTRATION BMP. SHALL BE COMPLETED FROM THE PERIMETER OF PROPOSED BMP WHERE POSSIBLE. WHERE THE EXCAVATION CANNOT BE COMPLETED FROM THE PERIMETER OF THE BMP, BULK FARTHWORK CAN BE COMPLETED TO AN ELEVATION THAT IS 1 FOOT ABOVE THE INFILTRATION SURFACE. THE FINAL 1 FOOT OF MATERIAL SHOULD BE EXCAVATED WITH A HOE OR SIMILAR EQUIPMENT, EXCAVATION FROM THIS POINT ON SHOULD BE COMPLETED WITH THE MACHINE PLACED ON THE AREAS CONTAINING 1 FOOT OF MATERIAL. AS EXCAVATION OF THE 1 FOOT OF MATERIAL PROCEEDS, THE INFILTRATION SURFACE SHOULD BE SCARIFIED. AGGREGATE BACKFILL SHOULD NOT BE DUMPED ON TO THE PREPARED INFILTRATION SURFACE BY TRUCK BUT SHOULD BE SPREAD WITH THE MACHINE PLACING/SPREADING THE STONE ON THE PERIMETER OF THE INFILTRATION SURFACE OR TRACKING OVER A MINIMUM OF 1 FOOT OF AGGRÉGATE.
- 3.2 THE USE OF LOW GROUND PRESSURE (LGP) MACHINES IS ALLOWED AS LONG AS THE SPECIFICATIONS OF THE MACHINE TO BE USED ARE PROVIDED AT THE PRE-CONSTRÚCTION MEETING AND IT IS VERIFIED PRIOR TO EXCAVATION THAT THE PROPOSED
- 4. INSTALL AND MAINTAIN PROPER EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION
- 5. THE EXISTING SUBGRADE UNDER THE BED AREAS SHALL NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC PRIOR TO GEOTEXTILE AND STONE BED PLACEMENT. IF POSSIBLE, EXCAVATE INFILTRATION BASIN BOTTOM TO AN UNCOMPACTED SUBGRADE FREE FROM ROCKS AND DEBRIS. DO NOT SUBGRADE.
- 6. WHERE EROSION OF SUBGRADE HAS CAUSED ACCUMULATION OF FINE MATERIALS AND/OR SURFACE PONDING, THIS MATERIAL SHOULD BE REMOVED WITH LIGHT EQUIPMENT AND THE UNDERLYING SOILS SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES WITH A YORK RAKE
- (OR EQUIVALENT) AND LIGHT TRACTOR. ALL FINE GRADING SHALL BE DONE BY HAND. ALL BED BOTTOMS SHOULD BE AT A LEVEL GRADE. 7. INSTALL UPSTREAM AND DOWNSTREAM INLET AND OUTLET CONTROL STRUCTURES, CLEANOUTS PERFORATED PIPING AND ALL OTHER
- 8. GEOTEXTILE AND BED AGGREGATE SHOULD BE PLACED IMMEDIATELY AFTER APPROVAL OF SUBGRADE PREPARATION AND INSTALLATION OF STRUCTURES. GEOTEXTILE SHOULD BE PLACED IN ACCORDANCE WITH MANUFACTURERS STANDARDS AND RECOMMENDATIONS. ADJACENT STRIPS OF GEOTEXTILE SHOULD OVERLAP A MINIMUM OF 16 INCHES. IT SHOULD ALSO BE SECURED AT LEAST 4 FEET OUTSIDE OF THE BED IN ORDER TO PREVENT ANY RUNOFF OR SEDIMENT FROM ENTERING THE STORAGE BED. THIS EDGE STRIP SHOULD REMAIN IN PLACE UNTIL ALL BARE SOILS CONTIGUOUS TO BEDS ARE STABILIZED AND VEGETATED. AS THE SITE IS FULLY STABILIZED, EXCESS GEOTEXTILE ALONG BED EDGES CAN BE CUT BACK TO THE EDGE OF THE BED.
- 9. CLEAN-WASHED, UNIFORMLY GRADED AGGREGATE SHOULD BE PLACED IN THE BED IN MAXIMUM 8-INCH LIFTS. EACH LAYER SHOULD BE LIGHTLY COMPACTED, WITH CONSTRUCTION EQUIPMENT KEPT OFF THE BED BOTTOM AS MUCH AS POSSIBLE.
- 10. APPROVED SOIL MEDIA, IF APPLICABLE, SHOULD BE PLACED OVER THE INFILTRATION BED IN MAXIMUM 6-INCH LIFTS.
- 11. SEED AND STABILIZE WITH TOPSOIL. (VEGETATE IF APPROPRIATE WITH NATIVE PLANTINGS), STONE, OR PAVEMENT, AS NOTED ON THE
- 12. DO NOT REMOVE INLET PROTECTION OR OTHER EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY STABILIZED.



LOCATION MAP

STORMWATER MGMT. OPERATION AND MAINTENANCE NOTES

PROGRAM AND WRITTEN APPROVAL FROM THE MUNICIPALITY HAS BEEN OBTAINED.

- 1. STORMWATER MANAGEMENT FACILITIES PROPOSED FOR THE PROJECT INCLUDE ONE SUBSURFACE MRC BASIN, INLET BOXES AND STORM PIPE TO CONVEY STORMWATER RUNOFF TO THE STORMWATER SYSTEM.
- 2. THE MUNICIPALITY SHALL PROVIDE CONSTRUCTION OBSERVATION FOR THE STORMWATER MANAGEMENT FACILITY AS DEEMED NECESSARY BY THE MUNICIPAL REPRESENTATIVES.
- THE TOWNSHIP SHALL HAVE THE RIGHT TO ACCESS THE PROPERTY TO PERFORM INSPECTIONS AND EMERGENCY MAINTENANCE FOR THE PRESERVATION AND FUNCTION OF THE STORMWATER MANAGEMENT FACILITIES. 4. NO PERSON SHALL MODIFY, REMOVE, FILL, LANDSCAPE, OR ALTER ANY STORMWATER MANAGEMENT BEST MANAGEMENT
- NO PERSON SHALL PLACE ANY STRUCTURE, FILL, LANDSCAPING, OR VEGETATION OTHER THAN WHAT IS SHOWN ON THE PLAN, IN OR ABOVE A STORMWATER MANAGEMENT FACILITIES OR BMP THAT WOULD LIMIT OR ALTER THE FUNCTIONING OF THE STORMWATER MANAGEMENT FACILITY WITHOUT WRITTEN APPROVAL FROM THE MUNICIPALITY.

PRACTICES (BMPS), THE FACILITY AREAS OR STRUCTURES UNLESS IT IS PART OF AN APPROVED MAINTENANCE

6. DURING CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE TOWNSHIP ENGINEER'S OFFICE THREE DAYS PRIOR TO THE CONSTRUCTION OF THE PROPOSED INFILTRATION STORMWATER MANAGEMENT FACILITY.

STORMWATER MANAGEMENT GENERAL NOTES

- 1. OPERATION AND MAINTENANCE FOR THE STORMWATER MANAGEMENT FACILITIES IS THE RESPONSIBILITY OF THE PROPERTY
- 2. ON A MONTHLY BASIS, THE FOLLOWING MAINTENANCE SHALL BE PERFORMED:
 a. SUBSURFACE MRC BASIN SHALL BE OBSERVED THROUGH THE INSPECTION PORT'S AND SUMPED INLETS TO IDENTIFY CONTINUED FUNCTION AND SEDIMENT ACCUMULATION, IF ANY. IF SIGNIFICANT SEDIMENT ACCUMULATION IS IDENTIFIED, THE SYSTEM SHALL BE VACUUMED OR FLUSHED.
- 3. ON AN ANNUAL BASIS, THE FOLLOWING MAINTENANCE SHALL BE PERFORMED: a. IF SEDIMENT IS ACCUMULATING IN THE BOTTOM OF THE INLET BOXES, THE SEDIMENT SHALL BE REMOVED BY A VACUUM
- b. GENERAL REVIEW TO IDENTIFY DAMAGED TO ALL COMPONENTS OF THE UNDERGROUND INFILTRATION BASIN AND STORMWATER CONVEYANCE SYSTEMS. IF DAMAGE IS FOUND, SHALL BE REPAIRED IMMEDIATELY.
- 4. IF TRASH AND DEBRIS ARE PRESENT, OWNER SHALL REMOVE THE TRASH AND DEBRIS IMMEDIATELY. ALSO THE INLETS SHALL

	Stormwater Testing Summary						
Test Location	Depth of Test Pit Inches	Depth to Water Inches	Depth to Rock Inches	Depth of Testing Inches	Infiltration Rate Inches per hour		
1001A	102			60	0.05		
1001B	102			12	0.05		
1002A	91			48	0.01		
1002B	91			12	0.02		
1003A*	80			54	0.01		
1003B*	80			12	0.01		

ALL DOCUMENTS PREPARED BY TRI-STATE ENGINEERS & LAND SURVEYORS, INC., ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY TRI-STATE ENGINEERS & LAND SURVEYORS, INC., FOR THE SPECIFIC PURPOSE INTENDED WILL BE THE OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO TRI-STATE ENGINEERS & LAND SURVEYORS, INC., AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS TRI—STATE ENGINEERS & LAND SURVEYORS, IN FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

EXISTING WATER VALVE

EXISTING TRAFFIC SIGN

EXISTING BOUNDARY SOILS TYPE

EXISTING IRON PIN

SOIL TEST PIT

Pennsylvania One Call System, Inc. SERIAL NO. 2022-1160890 Call Before You Dig in Pennsylvania

Facility Owners: Member of One Call System

1-800-242-1776 State Law Requires Construction Phase: Three working Days Notice Design Phase: Ten working Days Notice

R. KIRAN PATEL WEST BRISTER ROAD NSALEM, PA 19020 <u>APPLICANT:</u> MR. KIRAN PATEL 415 WEST BRISTER ROAD BENSALEM, PA 19020

Date: |Scale: 7/05/2022 1"=30' 22-04019 Acreage No. of Lots SEE TABLES Checked By esigned By: |Drawn By: STAFF STAFF L.Y.

DOYLESTOWN SILT LOAM 0-3% 4w

3/17/24 CLS TOWNSHIP ENGINEERS REVIEW LETTER DATE DRAWN E REVISION DESCRIPTION SCALE IN FEET

TO SATURATED

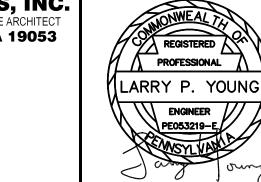
FILTER BAG(S) AVAILABLE.

SEE DETAIL.

YES | C/D | 60-99 IN | 6-72 IN

** THE SOILS SHOWN HEREON ARE BASED ON THE WEB SOIL SURVEY PREPARED BY SOIL SURVEY STAFF, NATURAL RESOURCES CONSERVATION SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE.

> TRI-STATE ENGINEERS & LAND SURVEYORS, INC. CIVIL ENGINEER • MUNICIPAL ENGINEERS • LAND SURVEYORS• LAND PLANNERS• LANDSCAPE ARCHITECT 801 WEST STREET ROAD, FEASTERVILLE, PENNSYLVANIA 19053 PHONE: 215-357-5950



PCSM PLAN

CORNER OF RICHLIEU ROAD & GALLOWAY ROAD TMP 02-046-001 **BENSALEM TOWNSHIP BUCKS COUNTY PENNSYLVANIA**

PRELIMINARY/FINAL

SHEET 4 OF 17

WHICH ARE NECESSARY TO PREVENT ENCROACHMENT ONTO ADJACENT PROPERTIES. 4. NO EXCAVATION OR FILL SHALL BE MADE WITH A FACE DEEPER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).

FEET OF THE PROPERTY LINE BY A LICENSED SURVEYOR. AND SHALL CONSTRUCT SUCH BARRIERS

- 5. TOPSOIL SHALL BE RETURNED TO A MINIMUM DEPTH OF 6 INCHES.
- 6. SIGHT DISTANCES INDICATED SHALL BE MAINTAINED BY CLEARING AND GRADING AS NECESSARY TO PROVIDE THE "REQUIRED" SIGHT DISTANCES. NO OBSTRUCTIONS TO VISIBILITY BETWEEN A VERTICAL PLANE OF 2 FEET TO 10 FEET ABOVE THE CENTERLINE OF THE STREET-LEVEL SO AS TO INTERFERE WITH TRAFFIC VISIBILITY ACROSS THE CORNER OF THE YARD WHICH IS IN THE SITE TRIANGLES INDICATED ON THE PLAN SHALL BE PERMITTED.
- 7. SURVEY BENCHMARK = INVERT OUT STORM INLET LOCATED ON CORNER OF CURB ISLAND ALONG GALLOWAY ROAD NEAR INTERSECTION WITH RICHLIEU ROAD (SHOWN), INV. ELEV. = 103.28.
- 8. NO PERSON SHALL MODIFY, REMOVE, FILL, LANDSCAPE, OR ALTER ANY EXISTING STORM WATER CONTROL OR BMP UNLESS IT IS PART OF AN APPROVED MAINTENANCE PROGRAM, WITHOUT THE
- 9. NO PERSON SHALL PLACE ANY STRUCTURE, FILL, LANDSCAPING, OR VEGETATION INTO A STORM WATER CONTROL OR BMP WITHIN A DRAINAGE EASEMENT, WHICH WOULD LIMIT OR ALTER THE FUNCTIONING OF THE STORM WATER CONTROL OR BMP, WITHOUT THE WRITTEN APPROVAL OF THE
- 10. THE STORMWATER FACILITIES AND FINAL GRADING SHOWN ON THESE PLANS AREA BASIC AND PERPETUAL PART OF THE STORMWATER MANAGEMENT SYSTEM OF THE PROPOSED SITE LOCATED IN BENSALEM TOWNSHIP, BUCKS COUNTY, COMMONWEALTH OF PENNSYLVANIA AND SUCH ARE TO RE PROTECTED AND PRESERVED IN ACCORDANCE WITH THE APPROVED FINAL PLANS BY THE OWNERS, THEIR SUCCESSORS AND ASSIGNS OF THESE LANDS. BENSALEM TOWNSHIP AND/OR ITS AGENTS RESERVE THE RIGHT AND PRIVILEGE TO ENTER UPON THESE LANDS FROM TIME TO TIME FOR THE INSPECTION OF THESE FACILITIES IN ORDER TO DETERMINE THAT PROPER OPERATION AND MAINTENANCE AND THAT THE STRUCTURAL AND DESIGN INTEGRITY IS BEING MAINTAINED BY THE
- 11. AREAS WHERE THE SUBSURFACE MRC BASIN BMP IS PROPOSED SHALL BE PROTECTED FROM SEDIMENTATION AND COMPACTION DURING THE CONSTRUCTION, SO AS TO MAINTAIN THEIR MAXIMUM
- 12. SUBSURFACE MRC BASIN BMP'S SHALL NOT BE CONSTRUCTED NOR RECEIVE RUNOFF UNTIL THE ENTIRE CONTRIBUTORY DRAINAGE AREA TO THE INFILTRATION BMP HAS RECEIVED FINAL
- 13. THE PROPERTY OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF THE STORM SEWER AND STORMWATER BMP. PROPERTY OWNER SHALL CHECK THE INSPECTION PORTS AND DRAIN BASIN
- SUMP AFTER EVERY LARGE STORM AND AT LEAST TWICE A YEAR.
- 14. NO CHANGES TO FINISHED GRADING CAN OCCUR AT ANY TIME IN THE FUTURE WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE TOWNSHIP.

15. ANY SWALE OF SLOPE GREATER THAN 3:1 SHALL HAVE EROSION CONTROL MATTING INSTALLED ON IT.

POST-CONSTRUCTION BMPs OPERATIONS & MAINTENANCE PROCEDURES

- 1. THE PROPOSED STORMWATER MANAGEMENT FACILITY OPERATES UNDER PASSIVE HYDRAULIC CONDITIONS. THE OWNER IS TO OWN AND MAINTAIN THE UNDERGROUND INFILTRATION BED. UNDERGROUND INFILTRATION BED SHOULD BE INSPECTED ON AN ANNUAL BASIS AND AFTER VERY LARGE RAINFALL EVENTS. THE PERIODIC INFILTRATION BED INSPECTIONS SHOULD INCLUDE INSPECTION OF THE UNDERGROUND PIPING SYSTEM THROUGH THE CLEANOUTS TO IDENTIFY ANY REQUIRED STRUCTURAL REPAIRS. MAINTENANCE INCLUDES TRASH REMOVAL.
- 2. THE OWNER(S) OF THE LOT SHALL SIGN AN OPERATIONS AND MAINTENANCE AGREEMENT WITH BENSALEM TOWNSHIP FOR THE PROPOSED STORMWATER FACILITIES AND BMP'S. THIS AGREEMENT SHALL BE IN A FORM ACCEPTABLE TO THE TOWNSHIP SOLICITOR AND EXECUTED BY THE OWNER AND BENSALEM TOWNSHIP AND BE RECORDED AT THE BUCKS COUNTY COURTHOUSE AS A RESTRICTIVE DEED COVENANT THAT RUNS WITH THE LAND AND SHALL BE TRANSFERRED WITH TRANSFER OF
- 3. THE MUNICIPALITY SHALL PROVIDE CONSTRUCTION OBSERVATION FOR THE STORMWATER MANAGEMENT FACILITIES, AS DEEMED NECESSARY BY THE MUNICIPAL REPRESENTATIVES.
- 4. NO PERSON SHALL MODIFY, REMOVE, FILL, LANDSCAPE, OR ALTER ANY STORMWATER MANAGEMENT BMP/FACILITIES, AREA, OR STRUCTURES UNLESS IT IS PART OF AN APPROVED MAINTENANCE PROGRAM AND WRITTEN APPROVAL FROM THE MUNICIPALITY MUST BE OBTAINED.
- 5. THE TOWNSHIP SHALL HAVE THE RIGHT TO ACCESS THE PROPERTY TO PERFORM INSPECTIONS. THE TOWNSHIP ALSO HAS THE RIGHT TO PERFORM MAINTENANCE FOR THE PRESERVATION AND FUNCTION OF THE STORMWATER FACILITIES IN THE EVENT THE OWNER DOES NOT PERFORM THE REQUIRED MAINTENANCE. THE TOWNSHIP ALSO HAS THE RIGHT TO INVOICE THE HOMEOWNER FOR ANYWHERE THE TOWNSHIP PERFORMS
- 6. THE OWNER HEREBY GRANTS THE TOWNSHIP A BLANKET EASEMENT TO ENTER THE PROPERTY TO PERFORM THE NECESSARY INSPECTIONS REQUIRED UNDER THE TOWNSHIP'S MS4 PROGRAM.
- 7. NO PERSON SHALL PLACE ANY STRUCTURE, FILL, LANDSCAPING, OR VEGETATION INTO A STORMWATER FACILITY OR BMP WHICH WOULD LIMIT OR ALTER THE FUNCTIONING OF SUCH STORMWATER FACILITY OR BMP WITHOUT THE WRITTEN APPROVAL OF THE MUNICIPALITY
- 8. DURING CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE TOWNSHIP ENGINEER'S OFFICE THREE DAYS PRIOR TO THE CONSTRUCTION OF THE PROPOSED INFILTRATION BMP STORMWATER MANAGEMENT
- 9. AN AS-BUILT LOT PLAN OF ALL STORMWATER BMP'S ARE REQUIRED UPON THE COMPLETION OF CONSTRUCTION OF EACH LOT.

CRITICAL STAGES OF IMPLEMENTATION OF PCSM PLAN

1. CONSTRUCTION OF THE SUBSURFACE MRC BASIN.

FORM 408 SPECIFICATIONS AND RC STANDARDS, LATEST EDITION. MORE RESTRICTIVE SHALL

- IN ORDER TO MINIMIZE THE POTENTIONAL FOR SOIL EROSION AND RESULTING POLLUTION DURING THE WINTER MONTHS, THE FOLLOWING EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE TAKEN FOR ALL SOILS
- WHEN FROZEN SOILS ARE ENCOUNTERED, THEY MUST BE STABILIZED IMMEDIATELY WITH THE MEASURES CALLED OUT IN THE CONSTRUCTION SEQUENCE AND SHOWN ON THE PLAN. AREAS THAT ARE NOT TO BE PERMANENTLY STABILIZED WITH STONE SHALL BE STABILIZED WITH MULCH AND JUTE NETTING UNTIL TEMPORARY OR FINAL SEEDING CAN BE ACCOMPLISHED.
- ADDITIONAL STONE SHALL BE PLACED ON THE CONSTRUCTION ENTRANCE IF REQUIRED TO MAINTAIN ITS EFFECTIVENESS.
- EROSION AND SEDIMENT CONTROLS SHALL BE IN PLACE BY WINTER.
- DISTURBED AREAS SHALL BE MULCHED DURING WINTER MONTHS AND SEEDED AND STABILIZED AS SOON AS CONDITIONS ALLOW IN THE SPRING

THERMAL IMPACT ANALYSIS

THE CONSTRUCTION PHASE OF THIS PROJECT INCLUDES THE REMOVAL OF TOPSOIL AND EARTHWORK GRADING. THE SITE WILL USE COMPOST FILTER SOCKS TO PROMOTE SHEET FLOW OF STORMWATER DURING CONSTRUCTION, WHICH WILL DISPERSE WARM WATER TO THE GROUND SURFACE LIMITING POINT SOURCES OF THERMAL POLLUTION. THE POST CONSTRUCTION PHASE OF THE PROJECT PROPOSES IMPERVIOUS COVER FROM THE DRIVEWAY AND DWELLING TO THE RESIDENTIAL ESTATE WHICH DISCHARGES TO PROPOSED SUBSURFACE INFILTRATION BEDS. THE PROPOSED BMP'S WILL HELP TO PROTECT FROM THERMAL POLLUTION.

DISPOSAL/RECYCLING OF CONSTRUCTION MATERIAL

EARTH MOVING DURING WINTER CONDITIONS

ALL CONSTRUCTION WASTES ARE TO BE RECYCLED TO THE GREATEST EXTENT PRACTICAL AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL MUNICIPALITY REQUIREMENTS AND GUIDELINES.

CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE).

CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN THE DEP'S POLICY "MANAGEMENT OF FILL".

ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING

ENVIRONMENTAL DUE DILIGENCE: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANDORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEP'S POLICY "MANAGEMENT OF FILL" FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEP'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE.

DISPOSAL/RECYCLING

INDIVIDUALS RESPONSIBLE FOR EARTH DISTURBANCE ACTIVITIES MUST ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTE INCLUDE THINGS SUCH AS, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, DAMAGED NETTINGS OR MATTING, SANITARY WASTES, GENERAL TRASH, ETC. THAT COULD ADVERSELY EFFECT OR IMPACT WATER QUALITY, MEASURES SHOULD BE PLANNED AND IMPLEMENTED FOR HOUSEKEFPING OF THE SITE MATERIALS MANAGEMENT, AND LITTER CONTROL. WHEREVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED, RATHER THAN

SEDIMENT REMOVED FROM EROSION CONTROL MEASURES OR FACILITIES AND OTHER SOILS DEEMED UNSUITABLE FOR USE AS FILL SHALL BE STABILIZED AND DISPOSED OF OFF SITE AT AN APPROVED FACILITY. OFF SITE DISPOSAL MUST COMPLY WITH ALL LOCAL, COUNTY, STATE AND FEDERAL RULES, REGULATIONS AND LAWS. GEOLOGIC FORMATIONS

THERE ARE NO KNOWN EXISTING GEOLOGIC FORMATIONS THAT HAVE THE POTENTIAL TO CAUSE POLLUTION AND THAT WOULD NEED MITIGATION. CRITICAL STAGES OF CONSTRUCTION

THE STORMWATER MANAGEMENT SYSTEM SHALL BE INSPECTED DURING CRITICAL STAGES OF CONSTRUCTION BY A REPRESENTATIVE OF TRI-STATE ENGINEERS & LAND SURVEYORS, INC. AS FOLLOWS:

1. PRIOR TO COMMENCEMENT OF CONSTRUCTION. . DURING THE INSTALLATION OF THE SUBSURFACE MRC BASIN 3. FOLLOWING THE COMPLETION OF ALL SITE IMPROVEMENTS.

THERE ARE NO KNOWN EXISTING GEOLOGIC FORMATIONS THAT HAVE THE POTENTIAL TO CAUSE POLLUTION AND THAT WOULD NEED MITIGATION.

PCSM BMP'S

THE SITE'S STORMWATER BMP'S WERE DEVELOPED TO PREVENT AN INCREASE IN THE RATE OF STORMWATER RUNOFF PRESERVE THE INTEGRITY OF STREAM CHANNELS AND MAINTAIN AND PROTECT THE PHYSICAL, BIOLOGICAL, AND CHEMICAL QUALITIES OF THE RECEIVING STREAM, AND MINIMIZE ANY INCREASE IN STORMWATER VOLUME, IN ACCORDANCE WITH THE TOWNSHIP'S AND PA DEP STORMWATER REQUIREMENTS. THE PROJECT PROPOSES TO USE STRUCTURAL AND NON-STRUCTURAL BMP'S THAT PREVENT OR MINIMIZE CHANGES IN STORMWATER RUNOFF.

SUBSURFACE MRC BASIN (MANAGED RELEASE CONCEPT)

ONE SUBSURFACE MRC BASIN IS PROPOSED AS PART OF THIS PROJECT.

SUBSURFACE MRC BASIN 1 IS LOCATED IN THE PARKING LOT AT THE FRONT OF THE PROPOSED BUILDING TO HANDLE THE RUNOFF FROM THE PROPOSED DEVELOPMENT. THIS SYSTEM IS A 160' BY 50' WITH A BOTTOM FLEVATION OF 108 25 AND A TOP FLEVATION OF 113 75 SIX (6) 18" PERFORATED HDPF PIPES ARE PROPOSED. THROUGHOUT THE SYSTEM TO PROVIDE ADDITIONAL STORAGE THE PROPOSED OUTLET STRUCTURE WILL HAVE WEIR WALL AT ELEVATION 112.00 WITH A 6" ORIFICE AT ELEVATION 111.00 AND A 1.5" ORIFICE AT ELEVATION 109.2. THE STORMWATER WILL DISCHARGE INTO THE EXISTING STORM SEWER SYSTEM.

PCSM BMP'S

THE SITE'S STORMWATER BMP'S WERE DEVELOPED TO PREVENT AN INCREASE IN THE RATE OF STORMWATER RUNOFF, PRESERVE THE INTEGRITY OF STREAM CHANNELS AND MAINTAIN AND PROTECT THE PHYSICAL, BIOLOGICAL, AND CHEMICAL QUALITIES OF THE RECEIVING STREAM. AND MINIMIZE ANY INCREASE IN STORMWATER VOLUME. IN ACCORDANCE WITH THE TOWNSHIP'S AND PA DEP STORMWATER REQUIREMENTS. THE PROJECT PROPOSES TO USE STRUCTURAL AND NON-STRUCTURAL BMP'S THAT PREVENT OR MINIMIZE CHANGES IN STORMWATER RUNOFF.

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BCCD PCSM CHECKLIST

LIMITED AREA OF DISTURBANCE

NO SITE CLEARING OR GRADE IS PROPOSED WHICH IS NOT ESSENTIAL TO THE CONSTRUCTION OF THE PROJECT. THE LIMITS OF EARTH DISTURBANCE ARE SHOWN ON THE PLANS.

MAXIMIZE PROTECTION OF DRAINAGE FEATURES AND VEGETATION

THIS PROJECT PROPOSES THE CONSTRUCTION OF NEW SINGLE FAMILY RESIDENTIAL ESTATE AND DRIVEWAY. EXISTING VEGETATION WILL BE PROTECTED DURING CONSTRUCTION BY COMPOST FILTER SOCKS AND OTHER EROSION AND SEDIMENT CONTROL MEASURES AND POST CONSTRUCTION BY THE PROPOSED STORMWATER BMP'S. EXISTING VEGETATION AND TREES WILL BE PROTECTED TO THE MAXIMUM EXTENT PRACTICAL.

MINIMIZE SOIL COMPACTION

THE AREA OF SOIL DISTURBANCE HAS BEEN LIMITED TO THE CONSTRUCTION AREA. THE PROPOSED STORMWATER FACILITIES WILL BE PROTECTED FROM SOIL COMPACTION TO THE MAXIMUM EXTENT PRACTICAL DURING CONSTRUCTION. AREAS NOT SUBJECT TO IMPERVIOUS COVER WILL BE TOPPED WITH TOPSOIL, SEED AND MULCH.

THIS PROJECT PROPOSES TO MINIMIZE IMPERVIOUS COVER BY MINIMIZING THE WIDTH OF THE PROPOSED DRIVE, AND KEEPING THE BUILDING ENVELOPE WITHIN THE ALLOWABLE AREA PROVIDED BY THE TOWNSHIP.

MINIMIZE LAND CLEARING AND GRADING THE DISTURBANCE FOR THE SITE IS LIMITED TO THAT NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS. EXISTING VEGETATION WILL BE MAINTAINED TO THE MAXIMUM EXTENT PRACTICAL. PRESERVE THE INTEGRITY OF STREAM CHANNELS AND MAINTAIN AND PROTECT THE PHYSICAL, BIOLOGICAL AND CHEMICAL QUALITIES OF THE RECEIVING STREAM. I'HE PROJECT IS PROPOSING SEVERAL BMP'S TO PRESERVE THE INTEGRITY OF NESHAMINY CREEK AND MAINTAIN AND PROTECT THE PHYSICAL, BIOLOGICAL AND CHEMICAL QUALITIES OF THE RECEIVING STREAM. THESE BMP'S INCLUDE A INFILTRATION TRENCH ALONG THE PROPOSED DRIVEWAY, WATER QUALITY FILTERS AND LANDSCAPE RESTORATION, TH COMBINATION OF THESE MEASURES TO ADDRESS STORMWATER VOLUMES, WATER QUALITY AND PEAK RATES ARE PROPOSED

MINIMIZE TOTAL DISTURBED AREA

THE DISTURBANCE FOR THE SITE IS LIMITED TO THAT NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS. THE LOCATION OF THE DRIVE FOLLOWS THE EXISTING TEMPORARY DRIVEWAY TO LIMIT THE EXTENT OF DISTURBED AREAS. ADDITIONALLY, THE PROPOSED DRIVEWAY MATCHES EXISTING GRADE OF TEMPORARY DRIVEWAY TO THE MAXIMUM EXTENT POSSIBLE TO MINIMIZE AREAS OF EARTH DISTURBANCE.

RIPARIAN FOREST BUFFER MANAGEMENT PLAN

TO PRESERVE THE INTEGRITY OF THE DOWNSTREAM WATER COURSE.

- EXISTING AND/OR PROPOSED RIPARIAN FOREST BUFFERS SHOWN ON PLAN MAP(S)
- RIPARIAN BUFFER OFFSET AREAS SHOWN, IF NECESSARY RIPARIAN BUFFER OR RIPARIAN FOREST BUFFER EQUIVALENCY DEMONSTRATION INCLUDED, IF NECESSARY.
- CHECKLIST FOR FUNCTIONAL EQUIVALENCY OF RIPARIAN BUFFERS AND RIPARIAN BUFFERS INCLUDED.
 THE PROJECT SITE IS NOT LOCATED IN AN EV OR HQ WATERSHED, THEREFORE, RIPARIAN FOREST BUFFERS ARE NOT

INSPECTION AND MAINTENANCE SCHEDULE

AND STORAGE TANKS.

A. SOILS EXHIBITING LOW STRENGTH AND ARE SUSCEPTIBLE TO CAVING OF CUT BANKS AS WELL AS LANDSLIDES - APPROPRIATE PRECAUTIONS SHOULD BE TAKEN TO SAFEGUARD WORKERS DURING ALL TRENCHING AND EXCAVATION OPERATIONS. ALL APPLICABLE OSHA STANDARDS AND REGULATIONS MUST BE IMPLEMENTED AT ALL TIMES. SOILS ARE PRONE TO SLOPE FAILURES, AND SITE SHALL BE GRADED TO PROVIDE MANAGEABLE SLOPES AS SHOWN ON THE PLANS.

B. SOILS EXHIBITING LOW SHEAR STRENGTH AND POOR COHESION SHALL BE BLENDED WITH OTHER ON-SITE SOILS OR OTHERWISE TREATED

UNTIL THEY MEET THE CONTRACT SPECIFICATIONS. ALTERNATIVELY LOW SHEAR STRENGTH SOILS MAY BE DISPOSED OF OFF-SITE. C. SOILS CORROSIVE TO CONCRETE AND STEEL -SUITABLE PRECAUTIONS SHALL BE TAKEN TO PROTECT ALL UNDERGROUND PIPES, CONDUITS

D. SOILS PRONE TO WETNESS, SLOW PERCOLATION AND SEASONALLY HIGH WATER TABLES/SHALLOW DEPTH TO SATURATED ZONE -EXCAVATION IN THESE SOILS MAY ENCOUNTER WHEN AND HAVE THE PRESENCE OF HYDRIC SOILS OR HYDRIC INCLUSIONS. WHEN NECESSARY, TEMPORARY DEWATERING FACILITIES SHALL BE PROVIDED TO MINIMIZE THE IMPACT OF HIGH OR SEASONAL WATER.

E. SOILS DEEMED UNSUITABLE FOR CONSTRUCTION (E.G. ORGANIC SOILS, OVERLY WET SOILS, BOULDERS, ETC.) SHALL BE TREATED, BLENDED OR MODIFIED UNTIL SUITABLE, OR DISPOSED OF OFF-SITE.

F. SOILS THAT ARE MOISTURE SENSITIVE AND PRONE TO FROST ACTION - WINTER GRADING IS A CONCERN DUE TO THE FINE GRAIN/COHESIVE NATURE OF THE SITE SOILS. FROZEN SOIL SHALL NOT BE USED AS FILL MATERIAL, UNLESS THAWED AND PROVEN ACCEPTABLE FOR USE AS FILL IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. PRECAUTIONS SHOULD BE TAKEN TO PREVENT ALL CONSTRUCTION FROM DAMAGE DUE TO FROST CYCLE ACTION.

G. ERODIBLE SOILS EXIST AT THE SITE - SOILS PRONE TO EROSION SHALL BE CONTROLLED BY THE MEASURES AND FACILITIES PRESENTED

H. SOILS ARE PRONE TO PIPING. CULVERTS PASSING THROUGH EMBANKMENTS SHALL BE PROVIDED WITH ANTI-SEEP PROTECTION TO

I. SOILS THAT ARE POOR SOURCES OF TOPSOIL, SUCH AS BEING TOO DROUGHTY OR TOO WET -SOIL TESTS ARE RECOMMENDED TO DETERMINE THE PROPER APPLICATION OF SOIL AMENDMENTS TO PROMOTE THE GROWTH OF THE DESIRED VEGETATION. WHEREVER SOILS THAT ARE FAIR OR GOOD SOURCES OF TOPSOIL MAY EXIST ON A SITE, THEY SHOULD BE CAREFULLY PRESERVED AND STORED FOR LATER USE IN RESTORATION.

OVERALL PCSM NOTES:

1. THE OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL ONSITE STORMWATER FACILITIES AS FOLLOWS:

1.1 ALL STORMWATER FACILITIES SHALL BE VISUALLY INSPECTED FOLLOWING A RAINFALL EVENT OF 1/2" IN ANY 24 HOUR PERIOD. 1.2 ALL STORMWATER FACILITIES SHALL BE VISUALLY INSPECTED MONTHLY OR MORE FREQUENTLY DEPENDANT ON THE NEEDS OF THE SITE. 1.3 THE DESIGN ENGINEER OF RECORD SHALL INSPECT THE SITE AFTER THE FIRST YEAR OF SERVICE, THEN EVERY OTHER YEAR IN THE EVENT OF FAILURES NOTICED DURING THE INITIAL INSPECTION.

1.4 ALL LAWN ARES SHALL BE MAINTAINED WITH A MOWABLE TURF WITH A GRASS HEIGHT THAT DOES NOT EXCEED 6".

1.5 ALL INLETS SNOUTS SHALL HAVE ACCUMULATED SEDIMENT REMOVED MONTHLY OR MORE FREQUENTLY DEPENDANT ON SITE NEEDS. 1.6 ALL MEADOW AREAS SHALL BE MAINTAINED TO A NATURAL GROWTH CONDITION AND SHALL HAVE WOODY AND EVASIVE SPECIES REMOVED. YEARLY. THE MEADOW AREAS SHALL BE MOWED TO A 6"STAND AT THE BEGINNING OF EACH GROWING SEASON.

2. THE STORMWATER MANAGEMENT SYSTEM SHALL BE INSPECTED DURING CONSTRUCTION BY A REPRESENTATIVE OF TRI-STATE ENGINEERS & LAND SURVEYORS, INC. IN ACCORDANCE WITH THE CRITICAL STAGES OF CONSTRUCTION.

3. TRI-STATE ENGINEERS & LAND SURVEYORS, INC. SHALL PROVIDE A COMPLETE SET OF AS-BUILT PLANS INCLUDING THE FOLLOWING:

3.1 TOPOGRAPHY FOR THE SITE WITHIN DEVELOPMENT AREA INCLUDING SUBSURFACE INFILTRATION BASINS.

3.2 AS-BUILT SURVEY OF ALL PIPES, OUTLET CONTROL STRUCTURES AND INLETS.

3.3 ANY CHANGES FROM DESIGN TO AS-BUILT CONDITIONS MUST BE APPROVED BY THE ENGINEER AND THE TOWNSHIP. 4. THE CONTRACTOR SHALL PROVIDE TRI-STATE ENGINEERS & LAND SURVEYORS, INC., BCCD AND THE TOWNSHIP ENGINEER 3 WORKING

DAYS PRIOR NOTICE PRIOR TO CONSTRUCTION. 5. THE ANTICIPATED START DATE FOR THIS PROJECT IS FALL OF 2021.

6. A WRITTEN REPORT SHALL BE PREPARED AND KEPT, DOCUMENTING EACH INSPECTION AND ALL BMP REPAIR AND MAINTENANCE ACTIVITIES, INCLUDING DATES OF INSPECTION, DEFICIENCIES FOUND, AND DATES THEY WERE CORRECTED. CHAPTER 93 RECEIVING WATER CLASSIFICATION

RUNOFF FROM THIS SITE DRAINS TO AN UNNAMED TRIBUTARY OF THE NESHAMINY CREEK (NESHAMINY CREEK WATERSHED), WHICH HAS A PA CHAPTER 93 RECEIVING WATER CLASSIFICATION OF WWF, MF (WARM WATER FISHES, MIGRATORY FISHES).

1. SITE PREPARATION, STABILIZATION AND MAINTENANCE SHALL BE PERFORMED IN ACCORDANCE WITH PENN STATE UNIVERSITY'S "THE

AGRONOMY GUIDE" AND PENNDOT FORM 408 SPECIFICATIONS' MOST RECENT ADDITION.

TEMPORARY SEEDING SPECIFICATION FORMULA E - ANNUAL RYE GRASS

PERMANENT SEEDING SPECIFICATION FORMULA B -50% KENTUCKY BLUEGRASS MIXTURE SPECIES: ANNUAL RYEGRASS % PURE LIVE SEED: 81% 30% PENNI AWN RED FESCUE

APPLICATION RATE: 40 LB./ACRE 20% PERENNIAL RYEGRASS MIXTURE FERTILIZER TYPE: 10-20-20 STEEP SLOPE SEEDING SPECIFICATION FORMULA W -FERTILIZER APPLICATION RATE: 1000 LB./ACRE 70% TALL FESCUE LIMING RATE: 1 TON/ACRE

10% REDTOP SEEDING RATE FOR THE ABOVE MIXTURES 10 LBS/1,000 SY FOR TEMPORARY SEEDING

20% BIRDSFOOT TREFOIL MIXTURE

21 LBS/1,000 SY FOR PERMANENT SEEDING 11 LBS/1.000 SY FOR STEEP SLOPE SEEDING (SEE NOTE 5)

2. HAY OR STRAW MULCH SHALL BE APPLIED AT THE RATES OF AT LEAST 3.0 TONS PER ACRE. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN. SLOPES OF 3:1 SHALL BE ANCHORED WITH MULCH CONTROL NETTING

3. PULVERIZED AGRICULTURAL LIMESTONE AND COMMERCIAL FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS WHICH ARE TO BE SEEDED EXCEPT FOR TEMPORARY SEED AREAS ARE THE FOLLOWING RATES: PULVERIZED AGRICULTURAL LIMESTONE - 90 LBS/1,000 SF

MULCH TYPE: <u>HAY/STRAW</u>

MULCHING RATE: 3 TON/ACRE

10-20-20 ANALYSIS COMMERCIAL FERTILIZER - 20 LBS/1,000 SF NOTE: APPLICATION OF LIME AND FERTILIZER FOR TEMPORARY SEEDING IS UNNECESSARY AND ONLY SERVES TO CONTRIBUTE TO AN

MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED FOR PARTICULAR METHOD AND SPECIFIC SITE CONDITIONS.

OVERABUNDANCE OF NUTRIENT POLITION IN THE WATERSHED 4. PERMANENT SEEDING SHALL TAKE PLACE FROM MARCH 15 TO JUNE 1 OR FROM AUGUST 1 TO OCTOBER 15. IF COMPLETED AT IN OTHER

SEASONS, AREAS SHALL RECEIVE TEMPORARY SEEDING AND 3.0 TONS PER ACRE MULCH. 5. STEEP SLOPE AREAS, CONSIDERED SLOPES GREATER THAN 3:1, SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING METHODS.

FLEXIBLE GROWTH MEDIUM: SHALL BE HYDRAULICALLY APPLIED COMBINATION OF SEED, MULCH, AND EROSION PROTECTION MATERIAL SIMILAR TO "FLEXTERRA" BY ACF OR EQUAL BY OTHER MANUFACTURER.

EROSION CONTROL MATTING: SHALL BE TEMPORARY MATTING SIMILAR TO SC350 BY NORTH AMERICAN GREEN OR EQUAL BY OTHER

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WILL BE THE OWNERS SOLE RISK AND WITHOUT LIABILITY O EXPOSURE TO TRI-STATE ENGINEERS & LAND SURVEYORS, INC., AND OWNER SHALL INDEMNIFY AND HOLD

HARMLESS TRI-STATE ENGINEERS & LAND SURVEYORS, IN

FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

Pennsylvania One Call System, Inc. SERIAL NO. 2022-1160890 Call Before You Dig in Pennsylvania 1-800-242-1776

State Law Requires Construction Phase: Three working Days Notice Design Phase: Ten working Days Notice Facility Owners: Member of One Call System

R. KIRAN PATEL WEST BRISTER ROAD NSALEM, PA 19020

MR. KIRAN PATEL 415 WEST BRISTER ROAD BENSALEM, PA 19020

22-04019

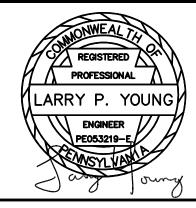
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STAFF

Date: |Scale: 7/05/2022 No. of Lots SEE TABLES esigned By: |Drawn By: |Checked By STAFF L.Y.

3/17/24 TOWNSHIP ENGINEERS REVIEW LETTER CLS DATE DRAWN E REVISION DESCRIPTION SCALE IN FEET

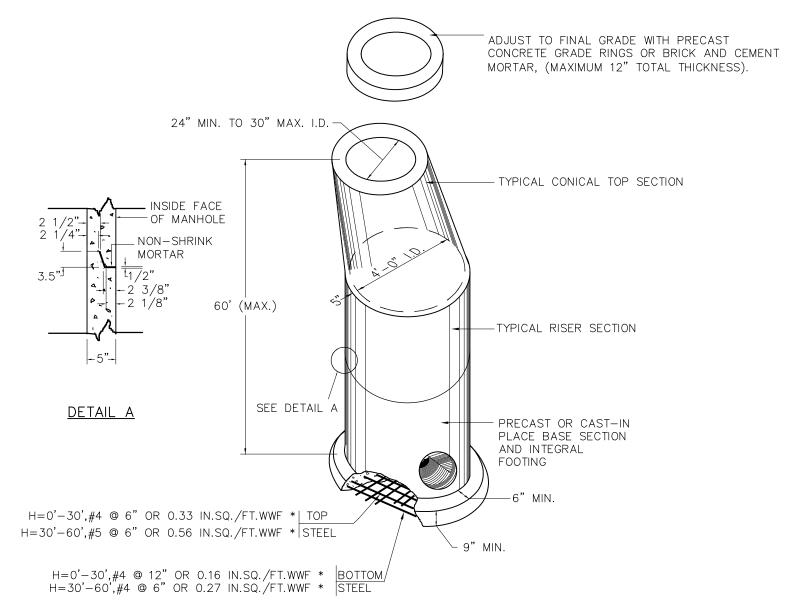
TRI-STATE ENGINEERS & LAND SURVEYORS, INC. CIVIL ENGINEER • MUNICIPAL ENGINEERS • LAND SURVEYORS• LAND PLANNERS• LANDSCAPE ARCHITECT 801 WEST STREET ROAD, FEASTERVILLE, PENNSYLVANIA 19053 PHONE: 215-357-5950



PCSM NOTES AND DETAILS

PRELIMINARY/FINAL

CORNER OF RICHLIEU ROAD & GALLOWAY ROAD TMP 02-046-001 **BENSALEM TOWNSHIP BUCKS COUNTY PENNSYLVANIA** SHEET 5 OF 17



PRECAST MANHOLES, MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 714, MAY BE SUBSTITUTED FOR STANDARD CAST-IN-PLACE MANHOLE.

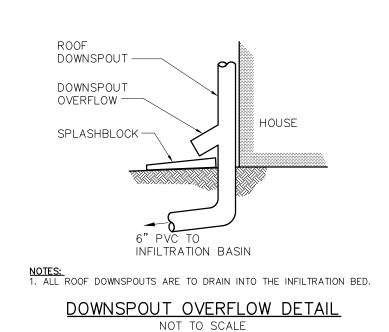
REFER TO "COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION, BUREAU OF HIGHWAY DESIGN, STANDARDS FOR ROADWAY CONSTRUCTION", PAGE RC-39, SHEET 3 of 5, LATEST ISSUE, FOR NOTES AND SPECIFICATIONS REGARDING PRECAST MANHOLE CONSTRUCTION.

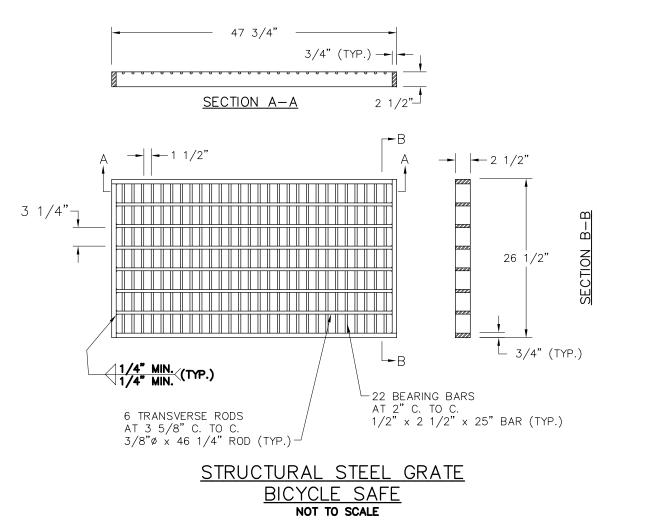
* PROVIDE WELDED WIRE FABRIC MEETING THE REQUIREMENTS OF PUBLICATION 408,

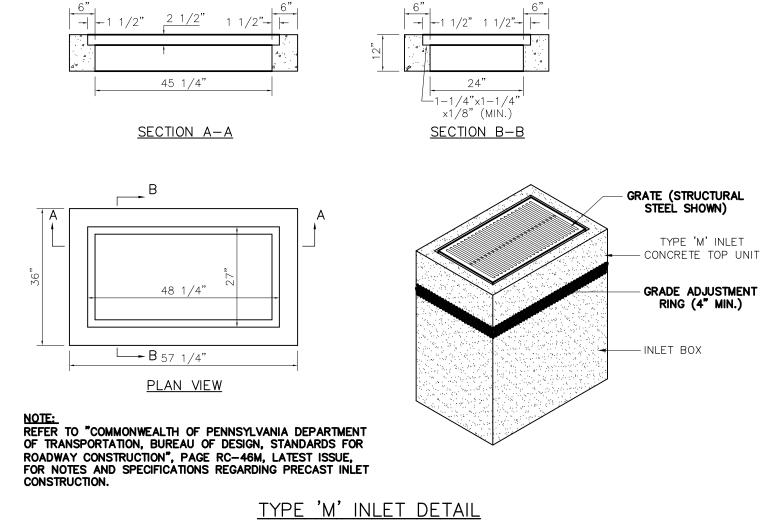
MANHOLE STEPS SHALL BE PROVIDED IN ANY CASE WHERE THE STRUCTURE IS 5 FEET OR GREATER IN DEPTH.

PRECAST STORMWATER MANHOLE

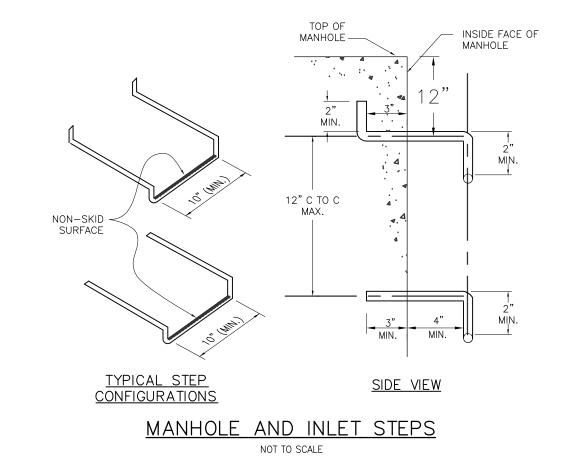
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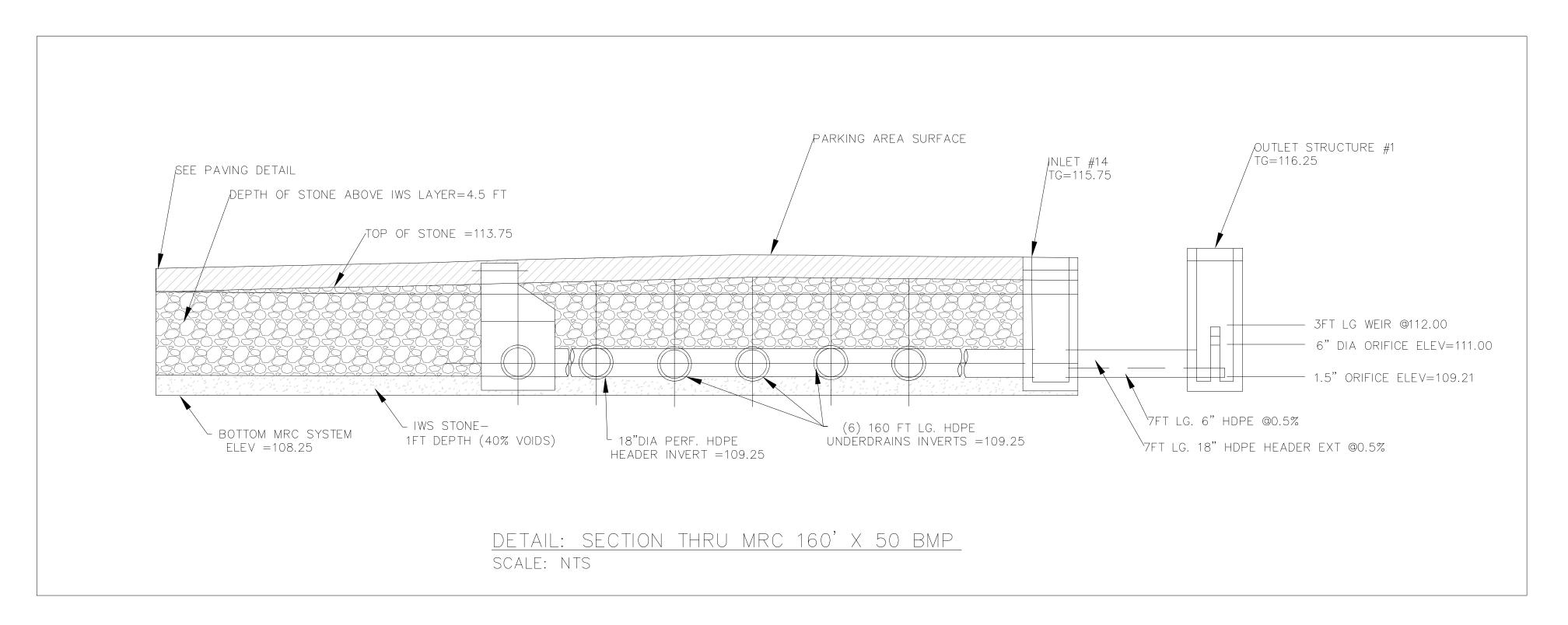


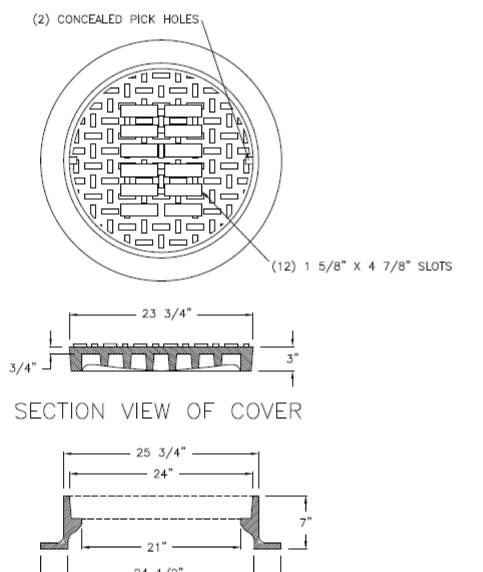




NOT TO SCALE







—— 24 1/2" —— _____ 31 3/4" ____

SECTION VIEW OF FRAME

SPECIFICATIONS: ALL MATERIAL IS ASTM A48 CLASS 35B GRAY IRON. SUITABLE FOR H25 LOAD DESIGN.

STORM MANHOLE SLOTTED CAST IRON FRAME

(ALL ROUNDS AND FILLETS TO BE 1/4" R. UNLESS OTHERWISE NOTED.)

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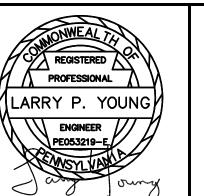
State Law Requires Construction Phase: Three working Days Notice Design Phase: Ten working Days Notice Facility Owners: Member of One Call System

OWNER OF RECORD: MR. KIRAN PATEL 415 WEST BRISTER ROAD APPLICANT: MR. KIRAN PATEL 415 WEST BRISTER ROAD BENSALEM, PA 19020

Date: Scale: 7/05/2022 22-04019 Acreage No. of Lots SEE TABLES Checked By: esigned By: |Drawn By: STAFF STAFF L.Y.

3/17/24 CLS TOWNSHIP ENGINEERS REVIEW LETTER DATE DRAWN E DESCRIPTION REVISION SCALE IN FEET

TRI-STATE ENGINEERS & LAND SURVEYORS, INC. CIVIL ENGINEER • MUNICIPAL ENGINEERS • LAND SURVEYORS• LAND PLANNERS• LANDSCAPE ARCHITECT 801 WEST STREET ROAD, FEASTERVILLE, PENNSYLVANIA 19053 PHONE: 215-357-5950



PRELIMINARY/FINAL **PCSM NOTES AND DETAILS**

CORNER OF RICHLIEU ROAD & GALLOWAY ROAD TMP 02-046-001 **BENSALEM TOWNSHIP BUCKS COUNTY PENNSYLVANIA** SHEET 6 OF 17

SEQUENCE OF CONSTRUCTION

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY THOSE AREAS

AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARER, AND THE BUCKS COUNTY CONSERVATION DISTRICT TO AN ON-SITE MEETING. ALSO, AT LEAST 3

DAY'S BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR BURIED UTILITIES LOCATIONS. INSTALL COMPOSITE FILTER SOCK, ORANGE CONSTRUCTION FENCING AROUND BMP'S, AND TREE PROTECTION FENCE THROUGHOUT THE SITE AS INDICATED ON THE E&S PLAN.

INSTALL ROCK CONSTRUCTION ENTRANCES AT EACH DRIVEWAY. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED

THROUGHOUT THE PROJECT. ROADWAYS SHALL BE KEPT FREE OF SEDIMENT, SOIL, AND MUD AT ALL TIMES. REMOVE TREES FROM DISTURBED AREAS. CLEAR AND GRUB THE SITE AREA. STOCKPILE TOPSOIL IN THE DESIGNATED AREA, INSTALL COMPOSITE FILTER SOCK, AND TEMPORARY SEED. ROUGH GRADE THE SITE AREA AND PREP BUILDING PAD.

INSTALL CONCRETE WASHOUT AREA. CONSTRUCT SUBSURFACE MRC BASIN, ALL INLETS AND STORM STRUCTURES. SEAL OFF ALL INLETS AND STORM MANHOLES

UNTIL SITE HAS BEEN COMPLETED STABILIZED.
INSTALL ALL CURB AND SIDEWALK THROUGHOUT THE SITE 10. INSTALL BASE COURSE PAVING THROUGH THE SITE, SITE AND ROADWAY ARE TO BE SWEPT AS NEEDED TO NOT ALLOW DIRT OR DEBRIS TO ENTER ROADWAY

11. POUR FOOTING AND CONSTRUCT BUILDING INSTALL WATER AND SEWER SERVICE LINES FOR EACH BUILDING. INSTALL REMAINING UNDERGROUND UTILITIES INCLUDING ELECTRIC, TELEPHONE, GAS, ETC.

14. FINAL GRADE THE SITE AREA. UPON COMPLETION OF THE FINAL GRADING, INSTALL LANDSCAPING AND APPLY PERMANENT SEEDING AND MULCH UNTIL PROPER VEGETATIVE COVER IS ESTABLISHED. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS. ALL SWALES SHALL EITHER BE SODDED OR EROSION

CONTROL MATTING (SC150) SHALL BE USED.

15. ONCE ALL GRADING AND LANDSCAPING ACTIVITIES HAVE BEEN COMPLETED AND ALL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED, INSTALL FINAL WEARING COURSE AND LINE STRIPING 16. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED AND WITH THE RECOMMENDATION OF THE BUCKS COUNTY CONSERVATION DISTRICT, REMOVE COMPOSITE FILTER SOCK, INLET PROTECTION, TREE PROTECTION FENCE, AND ORANGE CONSTRUCTION FENCE, AREAS DISTURBED DURING REMOVAL OF THE ES CONTROLS MUST BE STABILIZED IMMEDIATELY. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER

OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS. 17. CONSTRUCTION ACTIVITIES ARE EXPECTED TO COMMENCE IN SPRING OF 2024 AND BE COMPLETED WITHIN ONE (1) YEAR.

BMP CONSTRUCTION SEQUENCE

- 1. PROTECT SUBSURFACE INFILTRATION SYSTEM AREAS FROM COMPACTION PRIOR TO INSTALLATION. STOCKPILES SHALL NOT BE PLACED OVER SUBSURFACE INFILTRATION SYSTEMS.
- 2. INSTALL INFILTRATION SYSTEM AS NOTED IN THE CONSTRUCTION SEQUENCE. AFTER INSTALLATION, PREVENT SEDIMENT LADEN WATER
- 3. COMPACTION OF THE SOIL AT THE SUBSURFACE INFILTRATION SYSTEMS SHALL NOT OCCUR. THE FOLLOWING METHODS ARE EXAMPLES OF HOW COMPACTION COULD BE AVOIDED.
- 3.1 EXCAVATION AND GRADING OF THE PROPOSED INFILTRATION BMP, SHALL BE COMPLETED FROM THE PERIMETER OF THE PROPOSED BMP WHERE POSSIBLE. WHERE THE EXCAVATION CANNOT BE COMPLETED FROM THE PERIMETER OF THE BMP, BULK EARTHWORK CAN BE COMPLETED TO AN ELEVATION THAT IS 1 FOOT ABOVE THE INFILTRATION SURFACE. THE FINAL 1 FOOT OF MATERIAL SHOULD BE EXCAVATED WITH A HOE OR SIMILAR EQUIPMENT. EXCAVATION FROM THIS POINT ON SHOULD BE COMPLETED WITH THE MACHINE PLACED ON THE AREAS CONTAINING 1 FOOT OF MATERIAL. AS EXCAVATION OF THE 1 FOOT OF MATERIAL PROCEEDS, THE INFILTRATION SURFACE SHOULD BE SCARIFIED. AGGREGATE BACKFILL SHOULD NOT BE DUMPED ON TO THE PREPARED INFILTRATION SURFACE BY TRUCK BUT SHOULD BE SPREAD WITH THE MACHINE PLACING/SPREADING THE STONE ON THE PERIMETER OF THE INFILTRATION SURFACE OR TRACKING OVER A MINIMUM OF 1 FOOT OF AGGREGATE.
- 3.2 THE USE OF LOW GROUND PRESSURE (LGP) MACHINES IS ALLOWED AS LONG AS THE SPECIFICATIONS OF THE MACHINE TO BE USED ARE PROVIDED AT THE PRE—CONSTRUCTION MEETING AND IT IS VERIFIED PRIOR TO EXCAVATION THAT THE PROPOSED
- 4. INSTALL AND MAINTAIN PROPER EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION
- 5. THE EXISTING SUBGRADE UNDER THE BED AREAS SHALL NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC PRIOR TO GEOTEXTILE AND STONE BED PLACEMENT. IF POSSIBLE, EXCAVATE INFILTRATION BASIN BOTTOM TO AN UNCOMPACTED SUBGRADE FREE FROM ROCKS AND DEBRIS. DO NOT SUBGRADE.
- 6. WHERE EROSION OF SUBGRADE HAS CAUSED ACCUMULATION OF FINE MATERIALS AND/OR SURFACE PONDING, THIS MATERIAL SHOULD BE REMOVED WITH LIGHT EQUIPMENT AND THE UNDERLYING SOILS SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES WITH A YORK RAKE (OR EQUIVALENT) AND LIGHT TRACTOR. ALL FINE GRADING SHALL BE DONE BY HAND. ALL BED BOTTOMS SHOULD BE AT A LEVEL GRADE.
- 7. INSTALL UPSTREAM AND DOWNSTREAM INLET AND OUTLET CONTROL STRUCTURES, CLEANOUTS PERFORATED PIPING AND ALL OTHER
- 8. GEOTEXTILE AND BED AGGREGATE SHOULD BE PLACED IMMEDIATELY AFTER APPROVAL OF SUBGRADE PREPARATION AND INSTALLATION OF STRUCTURES. GEOTEXTILE SHOULD BE PLACED IN ACCORDANCE WITH MANUFACTURERS STANDARDS AND RECOMMENDATIONS. ADJACENT STRIPS OF GEOTEXTILE SHOULD OVERLAP A MINIMUM OF 16 INCHES. IT SHOULD ALSO BE SECURED AT LEAST 4 FEET OUTSIDE OF THE BED, IN ORDER TO PREVENT ANY RUNDER OR SEDIMENT FROM ENTERING THE STORAGE BED. THIS EDGE STRIP SHOULD REMAIN IN PLACE UNTIL ALL BARE SOILS CONTIGUOUS TO BEDS ARE STABILIZED AND VEGETATED. AS THE SITE IS FULLY STABILIZED, EXCESS GEOTEXTILE ALONG BED EDGES CAN BE CUT BACK TO THE EDGE OF THE BED.
- 9. CLEAN-WASHED, UNIFORMLY GRADED AGGREGATE SHOULD BE PLACED IN THE BED IN MAXIMUM 8-INCH LIFTS. EACH LAYER SHOULD BE LIGHTLY COMPACTED, WITH CONSTRUCTION EQUIPMENT KEPT OFF THE BED BOTTOM AS MUCH AS POSSIBLE.
- 10. APPROVED SOIL MEDIA, IF APPLICABLE, SHOULD BE PLACED OVER THE INFILTRATION BED IN MAXIMUM 6-INCH LIFTS.
- 11. SEED AND STABILIZE WITH TOPSOIL. (VEGETATE IF APPROPRIATE WITH NATIVE PLANTINGS), STONE, OR PAVEMENT, AS NOTED ON THE
- 12. DO NOT REMOVE INLET PROTECTION OR OTHER EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY STABILIZED.

PROTECTION OF BMPs DURING CONSTRUCTION:

- 1. INSTALL AND MAINTAIN ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES AT THE PERIMETER OF THE BED AREA DURING CONSTRUCTION.
- 2. EXCAVATE THE BASIN TO SUBGRADE TAKING CARE TO AVOID COMPACTION AND TO NOT SUBJECT THE AREA TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC PRIOR TO AMENDED SOIL PLACEMENT.
- 3. IT IS VERY IMPORTANT TO MINIMIZE COMPACTION OF THE INFILTRATION AREA. WHEN POSSIBLE, USE EXCAVATION HOES TO REMOVE ORIGINAL SOIL. IF THE BASIN IS EXCAVATED USING A LOADER, THE CONTRACTOR SHOULD USE WIDE TRACK OR MARSH TRACK EQUIPMENT, OR LIGHT EQUIPMENT WITH TURF TYPE TIRES. USE OF EQUIPMENT WITH NARROW TRACKS OR NARROW TIRES, RUBBER TIRES WITH LARGE LUGS, OR HIGH PRESSURE TIRES WILL CAUSE EXCESSIVE COMPACTION RESULTING IN REDUCED INFILTRATION RATES AND IS NOT ACCEPTABLE. COMPACTION WILL SIGNIFICANTLY CONTRIBUTE TO DESIGN
- 4. COMPACTION AND/OR SEDIMENTATION AFFECTS CAN BE ALLEVIATED BY USING A PRIMARY TILLING OPERATION SUCH AS A CHISEL PLOW, RIPPER, OR SUBSOILER. THESE TILLING OPERATIONS ARE TO REFRACTURE THE SOIL PROFILE THROUGH THE 12 INCH COMPACTION ZONE. SUBSTITUTE METHODS MUST BE APPROVED BY THE ENGINEER. ROTOTILLERS TYPICALLY DO NOT TILL DEEP ENOUGH TO REDUCE THE EFFECTS OF COMPACTION FROM HEAVY EQUIPMENT.

LOCATION MAP

PROJECT NARRATIVE:

Memoria

THIS PROJECT PROPOSES TO DEVELOP THE EXISTING TAX PARCEL NO. 02-046-001 BY ADDING A COMMERCIAL BUILDING, PARKING LOT, AND ASSOCIATED IMPROVEMENTS. A PROPOSED SUBSURFACE MRC BASIN IS PROPOSED TO CONTROL THE STORMWATER RUNOFF. EROSION CONTROL METHODS CONSIST OF TEMPORARY SEEDING, PLACING BASE MATERIAL ON

SEDIMENT CONTROL METHODS CONSIST OF INSTALLING SILT SOCK AT STRATEGIC LOCATIONS ON EACH LOT THE TRACT AND A ROCK CONSTRUCTION ENTRANCE FOR THE PROJECT.

PAVED AREAS, APPLYING GRASS SEED, MULCH, OR PROTECTIVE MATTING AT FINAL GRADING

CHAPTER 93 RECEIVING WATER CLASSIFICATION RUNOFF FROM THIS SITE DRAINS TO AN UNNAMED TRIBUTARY OF THE NESHAMINY CREEK

(DELAWARE RIVER WATERSHED), WHICH HAS A PA CHAPTER 93 RECEIVING WATER CLASSIFICATION OF WWF, MF (WARM WATER FISHES, MIGRATORY FISHES)...

LIMIT OF DISTURBANCE = 1.30 Ac

THE BUCKS COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED AT LEAST THREE (3) DAYS PRIOR TO THE DATE OF THE PRE-CONSTRUCTION MEETING

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INLET PROTECTION

Pennsylvania One Call System, Inc. SERIAL NO. 2022-1160890 Call Before You Dig in Pennsylvania 1-800-242-1776

ENTRANCE ENTRANCE

State Law Requires Construction Phase: Three working Days Notice Design Phase: Ten working Days Notice Facility Owners: Member of One Call System

<u>OWNER OF RECORD:</u> MR. KIRAN PATEL NSALEM, PA 19020 APPLICANT: MR. KIRAN PATEL 415 WEST BRISTER ROAD

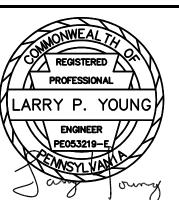
TEMPORARY ROCK CONSTRUCTION

22-04019 Acreage SEE TABLES BENSALEM, PA 19020 STAFF

Date: |Scale: 7/05/2022 1"=30' No. of Lots REVISION |Checked By: esigned By: |Drawn By: STAFF L.Y.

3/17/24 CLS TOWNSHIP ENGINEERS REVIEW LETTER DATE DRAWN E DESCRIPTION SCALE IN FEET

TRI-STATE ENGINEERS & LAND SURVEYORS, INC. CIVIL ENGINEER • MUNICIPAL ENGINEERS • LAND SURVEYORS• LAND PLANNERS• LANDSCAPE ARCHITECT 801 WEST STREET ROAD, FEASTERVILLE, PENNSYLVANIA 19053 PHONE: 215-357-5950



PRELIMINARY/FINAL

E&S CONTROL PLAN

CORNER OF RICHLIEU ROAD & GALLOWAY ROAD TMP 02-046-001 **BENSALEM TOWNSHIP BUCKS COUNTY PENNSYLVANIA**

SHEET 7 OF 17

- TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF 4 TO 8 INCHES MINIMUM 2 INCHES ON FILL OUTSLOPES. SPREADING SHOULD BE DONE IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE. IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOIL PLACEMENT SHOULD BE CORRECTED IN ORDER TO PREVENT FORMATION OF DEPRESSIONS UNLESS SUCH DEPRESSIONS ARE
- PART OF THE PCSM PLAN. TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION. COMPACTED SOILS SHOULD BE SCARIFIED TO 6 TO 12 INCHES ALONG CONTOUR WHEREVER

TABLE 11.1				
"Cubic yards of topsoil required for application to various depths"				
Depth (in)	Per 1,000 Square Feet	Per Acre		
1.00	3.10	134.00		
2.00	6.20	268.00		
3.00	9.30	402.00		
4.00	12.40	536.00		
5.00	15.50	670.00		
6.00	18.60	804.00		
7.00	21.70	938.00		
8.00	24.80	1072.00		

Soil amendment application rate equivilants				
C !!	Permanent seeding application rate			
Soil Amendment	Per Acre	Per 1,000 sq. ft.	Per 1,000 sq. yd	
Agricultural lime	6 tons	240 lb.	2,480 lb.	
10-10-20 fertilizer	1,000 lb.	25 lb.	210 lb.	
Temporary seeding application rate				
Agricultural lime	1 ton	40 lb.	410 lb.	
10-10-20 fertilizer	500 lb.	12.5 lb.	100 lb.	
NOTE: A compost blanket which meets the standards of the PA DEP ESPC Program Manual of March 2012 may be substituted for the soil				

EARTH MOVING DURING WINTER CONDITIONS

IN ORDER TO MINIMIZE THE POTENTIAL FOR SOIL EROSION AND RESULTING POLLUTION DURING THE WINTER MONTHS, THE FOLLOWING MEASURES SHALL BE TAKEN FOR ALL SOILS LOCATED ON THE SITE:

amendments show above.

- . WHEN FROZEN SOILS ARE ENCOUNTERED, THEY MUST BE STABILIZED IMMEDIATELY WITH THE MEASURES CALLED OUT IN THE CONSTRUCTION SEQUENCE AND SHOWN ON THE PLAN. AREAS THAT ARE NOT TO BE PERMANENTLY STABILIZED WITH STONE SHALL BE STABILIZED WITH MULCH AND JUTE NETTING UNTIL TEMPORARY OR FINAL SEEDING CAN BE ACCOMPLISHED. ADDITIONAL STONE SHALL BE PLACED ON THE CONSTRUCTION ENTRANCE IF REQUIRED TO MAINTAIN ITS EFFECTIVENESS.
- EROSION AND SEDIMENT CONTROLS SHALL BE IN PLACE BY WINTER. DISTURBED AREAS SHALL BE MULCHED DURING WINTER MONTHS AND SEEDED AND STABILIZED AS SOON AS CONDITIONS ALLOW IN THE SPRING.

INSPECTION AND MAINTENANCE PROGRAM

PROPER IMPLEMENTATION OF THIS PLAN REQUIRES MAINTENANCE OF THE PROPOSED ESC MEASURES, AS FOLLOWS, UNLESS MORE STRINGENT REQUIREMENTS ARE DISCUSSED ON THE LAND DEVELOPMENT PLANS. REFER TO E&S NARRATIVE.

ROCK CONSTRUCTION ENTRANCE WITH WASHRACK
ROCK CONSTRUCTION ENTRANCE WITH WASHRACK THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY

ADDING ROCK. A STOCKPILE OF PENNDOT NO. 1 STONE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED AREAS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IN A MANNER SATISFACTORY TO THE MUNICIPALITY AND TO THE LOCAL COUNTY CONSERVATION DISTRICT. WASHING OF THE ROADWAY WITH WATER WILL NOT BE PERMITTED. DAMAGED WASH RACKS SHOULD BE REPAIRED AS NECESSARY TO MAINTAIN THEIR EFFECTIVENESS. ALL DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY.

COMPOST FILTER SOCK
ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED OF PROPERLY. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR.

ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED SHALL BE STABILIZED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE RECOMMENDED RATES.

PUMPED WATER FILTER BAGS
PUMPED WATER FILTER BAGS SHALL BE USED ON THE PROJECT SITE TO ASSIST WITH TRENCH DEWATERING DURING UNDERGROUND

TO ASSIST WITH TRENCH DURING UNDERGROUND

TO AS UTILITY INSTALLATION. ALL PUMPED WATER SHALL BE DIRECTED THROUGH A FILTER BAG PRIOR TO DISCHARGE TO AN EROSION RESISTANT AREA. THE FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.

INLET PROTECTION
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. STONE FILTER BERMS SHALL BE
MAINTAINED LINTIL ROADWAY IS STONE REQUIRED FOR SOME INSTALLATIONS; SEE PLAN DETAILS. ROLLED EARTHEN BERMS SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX-INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT WHEN APPLICABLE. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM

GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH O 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE. INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES

UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION CONTROLS MUST BE MAINTAINED. MAINTENANCE MUST INCLUDE INSPECTION OF ALL ESC MEASURES AFTER EACH RUNOFF EVENT AND ON A MINIMUM OF A WEEKLY BASIS. ALL PREVENTION AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, RE-GRADING, RESEEDING, AND RE-MULCHING, MUST BE PERFORMED WITHIN 24 HOURS OF OBSERVANCE. SHOULD ANY MEASURES CONTAINED WITHIN THIS PLAN PROVE INCAPABLE OF ADEQUATELY REMOVING SEDIMENT FROM ON-SITE FLOWS PRIOR TO DISCHARGE, OR OF STABILIZING THE SURFACES INVOLVED. ADDITIONAL MEASURES MUST BE IMPLEMENTED TO ELIMINATE ALL SUCH PROBLEMS.

PROPOSED E&S AND PCSM BEST MANAGEMENT PRACTICES

ESPC MEASURES:

TO PROMOTE PERMANENT STABILIZATION.

STABILIZED CONSTRUCTION ENTRANCE: A TEMPORARY CONSTRUCTION ENTRANCE WILL BE PROVIDED AT THE DRIVEWAY/ACCESS ROAD TO ALLOW ACCESS TO THE SITE FOR CONSTRUCTION VEHICLES PRIOR TO THE ESTABLISHMENT OF THE PAVEMENT BASE COURSE. THE ENTRANCE WILL ALSO AID IN CLEANING MUD FROM VEHICLE TIRES BEFORE EXITING THE SITE. THE CLEANING PROVISIONS WILL REMAIN

COMPOST FILTER SOCKS: COMPOST FILTER SOCKS WILL BE USED TO FILTER SEDIMENT FROM OVERLAND (SHEET FLOW) AREAS. TEMPORARY SEEDING AND MULCHING: DISTURBED AREAS WILL BE IMMEDIATELY STABILIZED WITH A TEMPORARY SEED MIXTURE AND MULCH AS SHOWN ON THE PLANS. IN ADDITION, SOIL STOCKPILE AREAS ARE TO BE IMMEDIATELY SEEDED AND MULCHED WITH A TEMPORARY SEED MIXTURE TO PROMOTE RAPID VEGETATED STABILIZATION. PERMANENT SEEDING AND MULCHING: DISTURBED AREAS AT FINAL GRADE ARE TO RECEIVE A PERMANENT SEED MIXTURE AND MULCH

SLOPE STABILIZATION: SLOPE STABILIZATION IS PROVIDED FOR ALL TEMPORARY AND PERMANENT SLOPES EQUAL TO OR GREATER THAN

COMPOST FILTER SOCK CONCRETE WASHOUT: A COMPOST SOCK WASHOUT FACILITY SHALL BE PROVIDED FOR THE CLEANING OF CHUTES, MIXERS, AND HOPPERS OF THE DELIVERY VEHICLES UNLESS SUCH A FACILITY WILL BE USED AT THE SOURCE OF THE CONCRETE. UNDER NO CIRCUMSTANCES MAY WASH WATER FROM THESE VEHICLES BE ALLOWED TO ENTER ANY SURFACE WATERS. WASHOUT FACILITIES SHALL NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR SURFACE WATERS, AND BE

PUMPED WATER FILTER BAGS: PUMPED WATER FILTER BAGS SHALL BE USED ON THE PROJECT SITE TO ASSIST WITH TRENCH DEWATERING DURING UNDERGROUND UTILITY INSTALLATION. ALL PUMPED WATER SHALL BE DIRECTED THROUGH A FILTER BAG PRIOR TO DISCHARGE TO AN EROSION RESISTANT AREA. THE FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.

ROCK FILTER: SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE HEIGHT OF THE FILTERS. IMMEDIATELY UPON STABILIZATION OF EACH CHANNEL REMOVE ACCUMULATED SEDIMENT, REMOVE ROCK FILTER, AND STABILIZE DISTURBED AREAS.

STONE INLET PROTECTION AND BERM: SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE HEIGHT OF THE STONE. DAMANGED OR CLOGGED INSTALLTIONS SHALL BE REPAIRED OR REPLACED IMMEDIATEDLY E&S COMPLETENESS REVIEW CHECKLIST

LIMIT AREA OF DISTURBANCE: NO SITE CLEARING, OR GRADING IS PROPOSED WHICH IS NOT ESSENTIAL TO THE CONSTRUCTION OF THE PROJECT. THE LIMIT OF EARTH DISTURBANCE IS SHOWN ON THE PLANS. MINIMIZE EXTENT AND DURATION OF EARTH DISTURBANCE: THE ESC PLAN WAS PREPARED TO ALLOW FOR SUFFICIENT ROOM TO ALLOW FOR CONSTRUCTION OF THE SITE WHILE LIMITING THE EXTENT OF THE DISTURBED AREAS. THE CONSTRUCTION SEQUENCE REQUIRES DOWNSTREAM FACILITIES BE INSTALLED AND STABILIZED PRIOR TO UPSLOPE CONSTRUCTION.

MAXIMIZE PROTECTION OF DRAINAGE FEATURES AND VEGETATION; THIS PROJECT PROPOSES CONSTRUCTION OF NEW FACILITIES. THE SITE WAS CONFIGURED TO KEEP THE PROPOSED IMPERVIOUS AREA AS FAR AWAY FROM ANY EXISTING SURFACE WATERS AS POSSIBLE. MINIMIZE SOIL COMPACTION: THE AREA OF SOIL DISTURBANCE HAS BEEN LIMITED TO THE CONSTRUCTION AREA. THE PROPOSED INFILTRATION AREAS WILL BE PROTECTED FROM SOIL COMPACTION. AREAS NOT SUBJECT TO IMPERVIOUS SURFACE COVER WILL BE TOPPED WITH TOP SOIL, SEED, AND MULCH.

PROVIDE BMPS DURING CONSTRUCTION TO MINIMUM GENERATION OF INCREASED STORMWATER: THE CONSTRUCTION HAS BEEN

SEQUENCED TO INSTALL DOWN SLOPE FACILITIES TO CAPTURE AND MITIGATE STORMWATER PEAK FLOWS. OTHER MEASURES OR CONTROLS THAT PREVENT OR MINIMIZE GENERATION OF INCREASED STORMWATER RUNOFF: THE PLAN PROPOSES SEVERAL MEASURES AND CONTROLS TO MINIMIZE GENERATION OF INCREASED STORMWATER RUNOFF. THE CONSTRUCTION HAS BEEN SEQUENCED TO INSTALL DOWNSLOPE FACILITIES TO CAPTURE AND MITIGATE STORMWATER RUNOFF.

UTILITY LINE INSTALLATION CONSTRUCTION NOTES & SEQUENCE

THIS SEQUENCE IS A SUBSEQUENCE OF THE GENERAL CONSTRUCTION SEQUENCE AND SHOULD BE FOLLOWED FOR THE INSTALLATION OF THE UTILITY LINES OF THE PROJECT. THE INTENT OF THIS SEQUENCE IS TO PROVIDE THE SEQUENCING FOR THE UTILITY LINE

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

1. THE FOLLOWING TASKS SHALL BE COMPLETED EACH DAY, IN FULL, FOR UTILITY LINE INSTALLATION. THE PROCESS HALL BE REPEATED EACH DAY DURING PIPE INSTALLATION 1.1 EXCAVATE THE PIPE TRENCH FOR INSTALLATION EXCAVATED MATERIAL FOR INSTALLATION SHALL BE PACED ON THE LIPSLOPE SIDE OF THE TRENCH. ALL EXCAVATED MATERIAL SHALL BE STOCKPILED A MINIMUM OF 3 FEET AWAY FROM THE EXCAVATED TRENCH.

LIMIT DAILY TRENCH EXCAVATION TO THAT LENGTH OF PIPE INSTALLATION, BACKFILLING, AND STABILIZING THAT CAN BE COMPLETED 1.2 PLACE PIPE-BEDDING MATERIAL. WATER THAT ACCUMULATES IN THE TRENCH SHALL BE COMPLETELY REMOVED BY PUMPING

BEFORE PIPE PLACEMENT AND/OR BACKFILLING, IN ACCORDANCE WITH THE FACILITY FOR REMOVING SEDIMENT FROM PUMPED WATER DETAIL IN THE DRAWINGS.

1.3 PLACE PIPE AS INDICATED.

1.4 BACKFILL PIPE TRENCH IMMEDIATELY UPON COMPLETION OF TESTING AND INSPECTION.

1.5 GRADE DISTURBED AREAS TO FINAL CONTOURS. FOLLOW APPROPRIATE EROSION AND SEDIMENTATION POLLUTION CONTROL MEASURES. IMMEDIATELY SEED AND MULCH ALL DISTURBED AREAS. AREAS IN PROPOSED PAVED AREAS SHALL BE BACKFILLED WITH STONE TO PROVIDE STABILIZATION. AREAS NOTED TO BE STABILIZED WITH EROSION CONTROL MATTING SHALL BE IMMEDIATELY

GEOLOGIC FORMATIONS

THERE ARE NO KNOWN EXISTING GEOLOGIC FORMATIONS THAT HAVE THE POTENTIAL TO CAUSE POLLUTION AND THAT WOULD NEED MITIGATION.

THE CONSTRUCTION PHASE OF THIS PROJECT INCLUDES THE REMOVAL OF TOPSOIL AND EARTHWORK GRADING. THE SITE WILL USE COMPOST FILTER SOCKS TO PROMOTE SHEET FLOW OF STORMWATER DURING CONSTRUCTION, WHICH WILL DISPERSE WARM WATER TO THE GROUND SURFACE LIMITING POINT SOURCES OF THERMAL POLLUTION. THE POST CONSTRUCTION PHASE OF THE PROJECT PROPOSES IMPERVIOUS COVER FROM THE DRIVEWAY AND THE RESIDENTIAL ESTATE WHICH DISCHARGES TO PROPOSED INFILTRATION BEDS. THE PROPOSED BMP'S WILL HELP TO PROTECT AGAINST THERMAL POLIUTION

PERMANENT EROSION & SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED, STABILIZED AND FUNCTIONAL PRIOR TO EARTH DISTURBANCE WITHIN THE TRIBUTARY AREA TO SAID E&S MEASURE. 2. LOCAL ROADS ARE TO REMAIN FREE OF SEDIMENT AND CONSTRUCTION VEHICLES AND EQUIPMENT.

3. CONSTRUCTION VEHICLES AND THEIR TIRES SHALL BE CLEANED DAILY PRIOR TO LEAVING THE SITE TO PREVENT ANY TRACKINGS OR 4. UPON COMPLETION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY, THE SITE SHALL BE IMMEDIATELY

SEEDED, MULCHED OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION AS PER SEEDING AND MULCHING 5. SILT FENCING MAY BE REMOVED WHEN THE SITE IS PERMANENTLY STABILIZED. ACCUMULATED SEDIMENT MAY BE SPREAD AT THE SITE IN AREAS NOT SUBJECT TO EROSION.

6. THE TREE PROTECTION FENCING SHALL NOT BE REMOVED UNTIL <u>ALL</u> DEVELOPMENT AREAS ARE STABILIZED AND WRITTEN CONFIRMATION AND APPROVAL IS RECEIVED FROM THE LANDSCAPE REVIEW CONSULTANTS.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN. 8. BEFORE INITIATING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE CONTRACTOR SHALL RECEIVE APPROVAL OF THE REVISIONS FROM THE BUCKS COUNTY CONSERVATION DISTRICT.

9. THE CONTRACTOR IS ADVISED TO BECOME FAMILIAR WITH THE PROVISIONS OF APPENDIX 64, 'EROSION CONTROL RULES AND REGULATIONS,'

TITLE 25, PART 1, DEPT. OF ENVIRONMENTAL PROTECTION, SUBPART C-PROTECTION OF NATURAL RESOURCES, ARTICLE III-WATER RESOURCES, CHAPTER 102-EROSION CONTROL AND WITH THE "EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL" BY THE COMMONWEALTH OF PA., DEPARTMENT OF ENVIRONMENTAL PROTECTION, MARCH 2000 OR LATEST EDITION. 10. TECHNICAL ADVICE FOR THE IMPLEMENTATION OF THIS PROGRAM MAY BE OBTAINED BY CONTACTING THE BUCKS COUNTY CONSERVATION

DISTRICT AT (215)345-7577.

11. COPIES OF THESE PLANS MUST BE AVAILABLE ON SITE THROUGHOUT CONSTRUCTION.

12. CONTRACTOR SHALL FOLLOW THE PROCEDURES OUTLINED BY THE APPROVED EROSION & SEDIMENT CONTROL PLAN AND THE SEQUENCE OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE TOWNSHIP ENGINEER AND THE BUCKS COUNTY CONSERVATION

TEMPORARY EROSION & SEDIMENT CONTROL NOTES

- 1. EXISTING TREES AND OTHER EXISTING VEGETATION SHALL NOT BE DISRUPTED AND ALL CONSTRUCTION ACTIVITIES SHALL BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE.
- 2. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITY HAS CEASED, ALL AREAS SHALL BE STABILIZED. DURING NON-GERMINATING PERIODS MULCH SHALL BE APPLIED AT SPECIFIED RATES. DISTURBED AREAS THAT ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN ONE YEAR SHALL BE STABILIZED WITH TEMPORARY VEGETATION. AREAS WHICH ARE AT FINISHED GRADE OR WHICH WILL NOT BE REDISTURBED WITHIN ONE YEAR SHALL RECEIVE PERMANENT STABILIZATION. (SEE SEEDING AND MULCHING TABLE FOR DETAILS)
- 3. ALL TOPSOIL FROM THE OVERALL SITE PREPARATIONS WILL BE STOCKPILED AND REDISTRIBUTED UNIFORMLY AT THE TIME OF FINAL GRADING. ALL STOCKPILES SHALL HAVE PERIMETER SILT FENCE INSTALLED AND BE SEEDED AND MULCHED IMMEDIATELY. STOCKPILE(S) SHALL HAVE A SIDE SLOPE OF 2:1 OR FLATTER AND SHALL HAVE A HEIGHT NOT GREATER THAN 35 FEET. SEE PLAN FOR LOCATION OF
- 4. GRADE ALL CUT AND FILL SLOPES TO 3 FOOT HORIZONTAL FOR EVERY 1 FOOT VERTICAL OR FLATTER, AND APPLY SEEDING AND MULCH. AREAS WITH GRADES GREATER THAN OR EQUAL TO 3:1 SHALL RECEIVE STEEP SLOPE SEED MIX AND PERMANENT TURF REINFORCEMENT
- MAT: NORTH AMERICAN GREEN #C350 OR EQUAL 5. SIGNIFICANT STANDS OF TREES, DESIGNATED TO REMAIN, WILL BE PROTECTED WITH FENCING, SEE DETAIL. INSTALL ALONG THE DRIP LINE
- OF THE TREE BRANCHES. 6. EROSION CONTROL FACILITIES MUST DISCHARGE INTO ADEQUATE STORM SEWERS, NATURAL WATERWAYS, OR STABLE EROSION RESISTANT
- 7. ANY SEDIMENT OR MUD THAT IS TRACKED ONTO THE PUBLIC ROADWAY MUST BE CLEANED OFF IMMEDIATELY BY BROOMING AND/OR SHOVELING TO THE SATISFACTION OF THE TOWNSHIP AT THE EXPENSE OF THE DEVELOPER AND/OR RESPONSIBLE CONTRACTOR. USE OF A BACKHOE BUCKET TO SCRAPE ROADWAY SURFACE IS PROHIBITED. WHERE SAND AND/OR SEDIMENT IS CAUSING SLICK OR HAZARDOUS CONDITIONS, ROADWAY SURFACE SHALL BE PRESSURE WASHED TO REMOVE THE CONDITION. ALL SEDIMENT LADEN WATER MUST BE FILTERED IN A MANNER SATISFACTORY TO THE BUCKS COUNTY CONSERVATION DISTRICT BEFORE ENTERING STORM SEWERS AND/OR
- 8. NO SEDIMENT OR SEDIMENT LADEN WATER MUST BE ALLOWED TO LEAVE THE SITE/PROPERTY WITHOUT FIRST BEING FILTERED TO THE SATISFACTION OF BUCKS COUNTY CONSERVATION DISTRICT. ANY INLETS WHICH DO NOT DIRECT FLOW TO A SEDIMENT BASIN MUST BE
- 9. ALL PUMPING OF SEDIMENT-LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A FILTER BAG, DISCHARGING OVER UNDISTURBED AREAS.
- 10. ABSOLUTELY NO EARTHMOVING, PLACEMENT OF FILL MATERIAL OR THE ENTRY OF SEDIMENT LADEN WATER MUST TAKE PLACE IN WETLANDS. ALL WETLANDS SHALL BE PROTECTED FROM ENCROACHMENT WITH FENCING.
- 11. ROCK FILTER OUTLETS MUST BE PROVIDED IMMEDIATELY WHERE SILT SOCK HAS BEEN COMPROMISED.
- 12. THE SEDIMENTATION AND EROSION CONTROL MEASURES SHOWN ON THIS PLAN HAVE BEEN PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE BUCKS COUNTY CONSERVATION DISTRICT. TRI—STATE ENGINEERS DOES NOT TAKE ANY RESPONSIBILITY IN ORSERVING AND CERTIFYING THE CONSTRUCTION OF THESE FACILITIES LINESS REQUESTED SPECIFICALLY BY THE OWNER AND /OR CONTRACTOR. THEREFORE, TRI-STATE ENGINEERS DOES NOT ACCEPT ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF IMPROPER CONSTRUCTION AND/OR MAINTENANCE OF FACILITIES DURING CONSTRUCTION.
- 13. ACCUMULATED SEDIMENTS REMOVED FROM ANY AND ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES. IMMEDIATELY STABILIZE REPLACED SOILS WITH SEED & MULCH OR DEPOSIT IN SOIL STOCKPILES AND STABILIZE.
- 14. THE CONTRACTOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIAL AND WASTES IN ACCORDANCE WITH DEP'S SOLID WASTE MANAGEMENT REGULATIONS, AND/OR ANY ADDITIONAL LOCAL, STATE OR FEDERAL REGULATIONS. NO BUILDING
- MATERIALS (USED OR UNUSED) OR WASTE MATERIALS SHALL BE BURNED, BURIED, DUMPED OR DISCHARGED AT THE SITE. 15. ANY TREES WITHIN THE TREE PROTECTION ZONE THAT DIE DURING THE CONSTRUCTION OF A LAND DEVELOPMENT OR DURING THE 18-MONTH MAINTENANCE PERIOD, WHERE APPLICABLE, SHALL BE REMOVED BY THE DEVELOPER AND REPLACED WITH AN APPROVED

SEEDING AND MULCHING SCHEDULE

SEALED OFF TO NOT RECEIVE RUNOFF.

1. SITE PREPARATION, STABILIZATION AND MAINTENANCE SHALL BE PERFORMED IN ACCORDANCE WITH PENN STATE UNIVERSITY'S "THE AGRONOMY GUIDE" AND PENNDOT FORM 408 SPECIFICATIONS' MOST RECENT ADDITION.

SPECIES: ANNUAL RYEGRASS % PURE LIVE SEED: 81%

TEMPORARY SEEDING SPECIFICATION FORMULA E - ANNUAL RYE GRASS

SHADE TREE IN A LOCATION DESIGNATED BY THE TOWNSHIP.

PERMANENT SEEDING SPECIFICATION FORMULA B -50% KENTUCKY BLUEGRASS MIXTURE 30% PENNLAWN RED FESCUE 20% PERENNIAL RYEGRASS MIXTURE

APPLICATION RATE: 40 LB./ACRE FERTILIZER TYPE: 10-20-20 STEEP SLOPE SEEDING SPECIFICATION FORMULA W -FERTILIZER APPLICATION RATE: 1000 LB./ACRE 70% TALL FESCUE LIMING RATE: 1 TON/ACRE 20% BIRDSFOOT TREFOIL MIXTURE MULCH TYPE: <u>HAY/STRAW</u> 10% REDTOP MULCHING RATE: 3 TON/ACRE

SEEDING RATE FOR THE ABOVE MIXTURES: 10 LBS/1,000 SY FOR TEMPORARY SEEDING 21 LBS/1,000 SY FOR PERMANENT SEEDING

11 LBS/1,000 SY FOR STEEP SLOPE SEEDING (SEE NOTE 5)

- 2. HAY OR STRAW MULCH SHALL BE APPLIED AT THE RATES OF AT LEAST 3.0 TONS PER ACRE. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN. SLOPES OF 3:1 SHALL BE ANCHORED WITH MULCH CONTROL NETTING.
- 3. PULVERIZED AGRICULTURAL LIMESTONE AND COMMERCIAL FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS WHICH ARE TO BE SEEDED EXCEPT FOR TEMPORARY SEED AREAS ARE THE FOLLOWING RATES: PULVERIZED AGRICULTURAL LIMESTONE - 90 LBS/1,000 SF

10-20-20 ANALYSIS COMMERCIAL FERTILIZER - 20 LBS/1,000 SF

APPLICATION OF LIME AND FERTILIZER FOR TEMPORARY SEEDING IS UNNECESSARY AND ONLY SERVES TO CONTRIBUTE TO AN OVERABUNDANCE OF NUTRIENT POLLUTION IN THE WATERSHED. 4. PERMANENT SEEDING SHALL TAKE PLACE FROM MARCH 15 TO JUNE 1 OR FROM AUGUST 1 TO OCTOBER 15. IF COMPLETED AT IN OTHER

SEASONS, AREAS SHALL RECEIVE TEMPORARY SEEDING AND 3.0 TONS PER ACRE MULCH. 5. STEEP SLOPE AREAS, CONSIDERED SLOPES GREATER THAN 3:1, SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING

METHODS. MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED FOR PARTICULAR METHOD AND SPECIFIC SITE CONDITIONS. FLEXIBLE GROWTH MEDIUM: SHALL BE HYDRAULICALLY APPLIED COMBINATION OF SEED, MULCH, AND EROSION PROTECTION MATERIAL SIMILAR TO "FLEXTERRA" BY ACF OR EQUAL BY OTHER MANUFACTURER.

EROSION CONTROL MATTING: SHALL BE TEMPORARY MATTING SIMILAR TO SC350 BY NORTH AMERICAN GREEN OR EQUAL BY OTHER MANUFACTURER.

BCCD E&S CONTROL PLAN STANDARD NOTES

STANDARD EROSION AND SEDIMENT CONTROL PLAN NOTES

- 1. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
- 2. THE OPERATOR/RESPONSIBLE PERSON (O/RP) ON-SITE SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.
- 3. UNTIL THE SITE ACHIEVES FINAL STABILIZATION, THE PERMITTEE AND COMMITEE SHALL ASSURE THAT THE BEST MANAGEMENT PRACTICES ARE IMPLEMENTED, OPERATED, AND MAINTAINED PROPERLY AND COMPLETELY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL BEST MANAGEMENT PRACTICE FACILITIES AND MAINTAIN AND MAKE AVAILABLE TO THE BUCKS COUNTY CONSERVATION DISTRICT COMPLETE, WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL MAINTENANCE WORK, INCLUDING CLEANING, REPAIR, REPLACEMENT, REGRADING, RESEEDING, AND RESTABILIZATION SHALL BE PERFORMED IMMEDIATELY.
- 4. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
- 5. BEFORE INITIATING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE BUCKS COUNTY CONSERVATION DISTRICT.
- 6. THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED. APPROVED BY THE BUCKS COUNTY CONSERVATION DISTRICT, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS, REGARDLESS OF THEIR LOCATIONS.
- 7. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS.
- 8. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.
- 9. A COPY OF THE APPROVED EROSION AND SEDIMENT POLLUTION CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL
- 10. EROSION AND SEDIMENT BMP'S MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMP'S.
- 11. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMP CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMP'S MUST BE STABILIZED IMMEDIATELY. 12. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS. THE FROSION AND SEDIMENT CONTROL PLAN

PREPARER, AND THE BUCKS COUNTY CONSERVATION DISTRICT TO AN ON-SITE MEETING. ALSO, AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL

13. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN

SYSTEM INCORPORATED AT 1-800-242-1776 FOR BURIED UTILITIES LOCATIONS

EACH STAGE

3/17/24

- 14. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN ONE YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINISH GRADE OR WHICH WILL NOT BE REDISTURBED WITHIN ONE YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
- 15. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

TEMPORARY STABILIZATION AND PERMANENT STABILIZATION

OTHER ISSUES

16. HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE.

17. MULCH WITH MULCH CONTROL NETTING OR EROSION CONTROL BLANKETS MUST BE INSTALLED ON ALL SLOPES 3:1 OR STEEPER.OM.

18. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.

- 19. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING, MUST BE DONE IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S, OR MODIFICATIONS OF THOSE INSTALLED WILL BE
- 20. SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN LANDSCAPE AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS, OR DRAINAGE SWALES, AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.
- 21. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.

22. THE HOMEOWNER IS RESPONSIBLE FOR THE LONG TERM "OPERATION AND MAINTENANCE" OF THE BMP'S.

23. IF THE SITE WILL NEED TO IMPORT OR EXPORT MATERIAL FROM THE SITE, THE RESPONSIBILITY FOR PERFORMING 'ENVIRONMENTAL DUE DILIGENCE' AND DETERMINATION OF 'CLEAN FILL' WILL REST WITH THE CONTRACTOR.

CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE 'WATERS OF THE COMMONWEALTH' UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN

CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY "MANAGEMENT OF

ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL. A COPY OF FORM FP-001 CAN BE FOUND AT THE END OF

ENVIRONMENTAL DUE DILIGENCE: THE APPLICANT MUST PERFORM ENVIRONMENTAL DUE DILIGENCE TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL".

FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE. THESE REGULATIONS ARE AVAILABLE ON-LINE AT WWW.PACODE.COM.

MAINTENANCE OF FACILITIES 1. COMPOST SILT SOCK SHOULD BE INSPECTED AND MAINTAINED ON A DAILY BASIS.

- 2. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT CONTROL DEVICES MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROLS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF E&S CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS OR MODIFICATIONS OF INSTALLED MEASURES WILL BE REQUIRED.
- 3. CONTRACTOR SHALL MAINTAIN AND MAKE AVAILABLE TO THE BUCKS COUNTY CONSERVATION DISTRICT COMPLETE, WRITTEN INSPECTION LOGS OF THE ABOVE NOTED INSPECTION AND MAINTENANCE.
- 4. SEEDING, MULCHING AND FERTILIZING SHALL BE IN ACCORDANCE WITH THE SEEDING AND MULCHING SCHEDULE.
- 5. SHOULD THE TREE PROTECTION FENCING BE DISTURBED AT ANY POINT, IT SHALL BE REPLACED IMMEDIATELY.
- 6. THE CONTRACTOR SHALL HAVE AVAILABLE WATER TRUCKS OR OTHER MEANS OF CONTROLLING EXCESSIVE DUST AND AIRBORNE DEBRIS.
- 7. ALL DRAINAGE SWALES SHALL BE SEEDED AND MULCHED, AND PROTECTED WITH TURF REINFORCEMENT MAT: NORTH AMERICAN GREEN #SC150 (OR EQUAL). IF SWALES ARE TO BE SODDED, TURF REINFORCEMENT IS NOT REQUIRED. 8. ALL AREAS OF CONCENTRATED SURFACE DRAINAGE SHALL BE SEEDED AND MULCHED, AND PROTECTED WITH TEMPORARY TURF REINFORCEMENT MAT: NORTH
- AMERICAN GREEN #SC150 (OR EQUAL). IF AREAS ARE TO BE SODDED, TURF REINFORCEMENT IS NOT REQUIRED.
- 9. AFTER THE STORM CONVEYANCE SYSTEM IS CONSTRUCTED, MONTHLY INSPECTIONS FOR EACH DEVICE WILL BE MADE. AN INSPECTION OF ALL FACILITIES WILL BE MADE AFTER EVERY STORM TO DETERMINE THEIR RESISTANCE TO DRIVING RAINS AND ACCUMULATED RUNOFF. 10. SEEDED AREAS THAT HAVE WASHED AWAY SHALL BE FILLED AND GRADED AS NECESSARY AND THEN RESEEDED. A BURLAP OR STRAW COVER WILL BE APPLIED
- TO RETAIN THE SEED UNTIL IT HAS A CHANCE TO ROOT PROPERLY. 11. THE ABOVE PROCEDURE SHALL BE REPEATED AFTER EACH SIZABLE STORM UNTIL NO MORE SIGNS OF EROSION ARE EVIDENT. AT MONTHLY INTERVALS AT AN APPROVED DISPOSAL AREA. SILT THAT HAS ACCUMULATED SHALL BE REMOVED AND ALLOWED TO DRY AND USED AS FILL WHEREVER REQUIRED ON THE
- 12. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE MEASURES TO ADDRESS SAID CIRCUMSTANCES.

CHAPTER 93 RECEIVING WATER CLASSIFICATION

RUNOFF FROM THIS SITE DRAINS TO AN UNNAMED TRIBUTARY OF THE NESHAMINY CREEK WHICH IS PART OF THE NESHAMINY CREEK WATERSHED, WHICH HAS A PA CHAPTER 93 RECEIVING WATER CLASSIFICATION OF WWF, MF (WARM WATER FISHES, MIGRATORY FISHES).

AKEN TO SAFEGUARD WORKERS DURING ALL TRENCHING AND EXCAVATION OPERATIONS. ALL APPLICABLE OSHA STANDARDS AND REGULATIONS MUST BE IMPLEMENTED AT ALL TIMES. SOILS ARE PRONE TO SLOPE FAILURES, AND SITE SHALL BE GRADED TO PROVIDE MANAGEABLE SLOPES AS SHOWN ON THE

B. SOILS EXHIBITING LOW SHEAR STRENGTH AND POOR COHESION SHALL BE BLENDED WITH OTHER ON-SITE SOILS OR OTHERWISE TREATED UNTIL THEY MEET THE CONTRACT SPECIFICATIONS. ALTERNATIVELY LOW SHEAR STRENGTH SOILS MAY BE DISPOSED OF OFF-SITE.

C. SOILS CORROSIVE TO CONCRETE AND STEEL - SUITABLE PRECAUTIONS SHALL BE TAKEN TO PROTECT ALL UNDERGROUND PIPES, CONDUITS AND STORAGE

A. SOILS EXHIBITING LOW STRENGTH AND AREA SUSCEPTIBLE TO CAVING OF OUT BANKS AS WELL AS LANDSLIDES - APPROPRIATE PRECAUTIONS SHOULD BE

- D. SOILS PRONE TO WETNESS, SLOW PERCOLATION, AND SEASONALLY HIGH WATER TABLES/SHALLOW DEPTH TO SATURATED ZONE EXCAVATION IN THESE SOILS MAY ENCOUNTER WARE AND HAVE THE PRESENCE OF HYDRIC INCLUSIONS. WHEN NECESSARY, TEMPORARY DEWATERING FACILITIES SHALL BE PROVIDED O MINIMIZE THE IMPACT OF HIGH OR SEASONAL WATER.
- E. SOILS DEEMED UNSUITABLE FOR CONSTRUCTION (E.G., ORGANIC SOILS, OVERLY WET SOILS, BOULDERS, ETC.), SHALL BE TREATED, BLENDED OR MODIFIED UNTIL SUITABLE, OR DISPOSED OF OFF-SITE.
- F. SOILS THAT ARE MOISTURE SENSITIVE AND PRONE TO FROST ACTION WINTER GRADING IS A CONCERN DUE TO THE FINE GERAIN/COHESIVE NATURE OF THE SITE SOILS. FROZEN SOIL SHALL NOT BE USED AS FILL MATERIAL, UNLESS THAWED AND PROVEN ACCEPTABLE FOR USE AS FILL IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. PRECAUTIONS SHOULD BE TAKEN TO PREVENT ALL CONSTRUCTION FROM DAMAGE DUE TO FROST CYCLE ACTION.
- G. ERODIBLE SOILS EXIST AT THE SITE SOILS PRONE TO EROSION SHALL BE CONTROLLED BY THE MEASURES AND FACILITIES PRESENTED HEREIN.
- H. SOILS ARE PRONE TO PIPING. CULVERTS PASSING THROUGH EMBANKMENTS SHALL BE PROVIDED WITH ANTI-SEEP PROTECTION TO PROTECT AGAINST PIPING
- SOILS THAT ARE POOR SOURCES OF TOPSOIL, SUCH AS BEING TOO DROUGHTY OR TOO WET SOIL TESTS ARE RECOMMENDED TO DETERMINE THE PROPER APPLICATION OF SHOULD AMENDMENTS TO PROMOTE THE GROWTH OF THE DESIRED VEGETATION. WHEREVER SOILS THAT ARE FAIR OR GOOD SOURCES OF TOPSOIL MAY EXIST ON A SITE, THE SHOULD BE CAREFULLY PRESERVED AND STORED FOR LATER USED IN RESTORATION.

NON-STRUCTURAL BMP MEASURES:

THE FOLLOWING NON-STRUCTURAL BMP MEASURES WERE IMPLEMENTED AS PART OF THIS LAND DEVELOPMENT:

- CONSERVATION OF EXISTING NATURAL RESOURCE AREAS..
- 2. SITE CLUSTERING. MINIMIZE DISTURBANCE AND MAINTENANCE.
- REDUCE IMPERVIOUS COVER.
- DISCONNECTION OF RUNOFF. MINIMIZE SOIL COMPACTION.

CORNER OF RICHLIEU ROAD & GALLOWAY ROAD TMP 02-046-001 BENSALEM TOWNSHIP

BUCKS COUNTY PENNSYLVANIA

PRELIMINARY/FINAL

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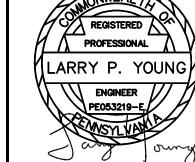
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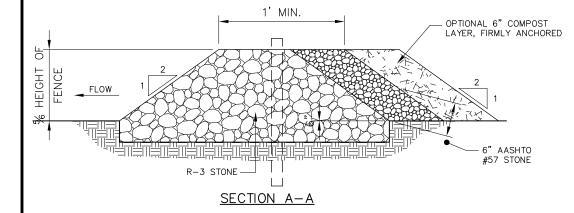
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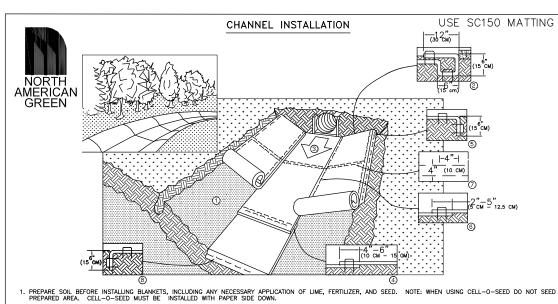


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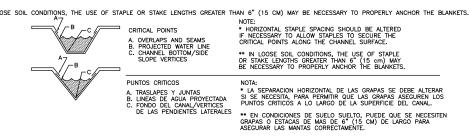


1. ROCK FILTER OUTLETS TO BE PROVIDED AT ALL EXISTING OR PROPOSED LOW POINTS AND ALL AREAS OF CONCENTRATED 2. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLETS. 3. COMPOST LAYER IS REQUIRED IN ALL HQ AND EV WATERSHEDS.

ROCK FILTER OUTLET DETAIL



2. BEGIN AT THE TOP OF THE CHANNEL BY ANOHORING THE BLANKET IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANOHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF BLANKET BACK DVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) ACROSS THE WIDTH OF THE BLANKET. I. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SUPFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTER! 4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4" - 6" (10 CM -15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER TO SECURE BLANKETS. 5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. 6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2" - 5" (5 CM -12.5 CM) (DEPENDING ON BLANKET TYPE) AND STAPLED. . IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9 M - 12 M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL. 8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. NOTE:
* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.



1. PREPARE EL SUELO DE COLOCAR LAS MANTAS, INCLUYENDO LA APLICASION DE CAL, FERTILIZANTE SEMILLA. NOTA: CUANDO ESTE USANDO CELL—O-SEED NO SIEMBRE EL AREA PREPARADA. CELL—O-SEED TIENE QUE INSTALARSE CON EL LADO DE PAPEL HACIA ABAJO.

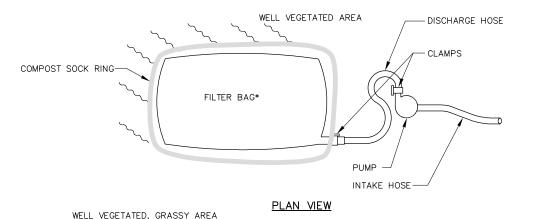
2. COMIENCE EN LA CABECERA DEL CANAL SUJETANDO LA MANTA EN UNA ZANJA DE 6" (15 CM) DE POPUNDIDAD POR 6" (15 CM). DE ANCHO CON APROXIMADAMENTE 12" (30 CM) DE LA MANTA EXTENDIDA MAS ALLA DE LA PENDIENTE ALTA DE LA ZANJA SUJETE RELLENE Y COMPACTE LA ZANJA DESPUES DEL ENGRAPE. RIEGUE LA SEMILLA EN EL SUELO COMPACTADO. ASEGURE LA MANTA SOBRE LA SEMILLA EN EL SUELO COMPACTADO. ASEGURE LA MANTA SOBRE EL SUELO CON UNA LINEADE GRAPAS O ESTACAS APROXIMADAMENTE 12" (30 CM) UNA DE LA GIRA A TRAVES DEL ANCHO DE LA MANTA.

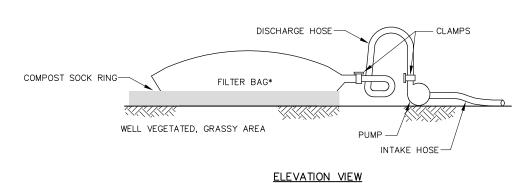
3. DESENROLLE LA MANTA DEL MEDIO EN EL FONDO DEL CANAL Y EN LA DIRECCION DEL FLUIO DE AGUA CON EL LADO APROPIADO HACIA LA SUPERFICIE DEL SUELO. TODAS LAS MANTAS DEBERBAN ASEGURARES A LA SUPERFICIE DEL SUELO POR MEDIO DE GRAPAS O ESTACAS EN LUGARESAPROPIADOS TAL Y COMO SE INDICA EN EL PATRON CIUA DE ENGRAPADO. CUANDO ESTE USANDO EL DOT SYSTEM". LAS GRAPAS O ESTACAS DEBEN COLOCARSE A TRAVES DE CADA UNO DE LOS PUNITOS CON COLOR CORRESPONDIENTES AL PATRON DE ENGRAPADO APROPIADO.

4. COLOQUE LAS MANTAS CONSECUTIVAS BORDE SOBRE BOTRE (TIPO ESCALONADO) CON UN TRASLAPE DE 4" — 6" (10 CM — 15 CM). USE UNA LINEA DOBLE DE GRAPAS ESCALONADAS, SEPARADAS POR 4" (10 CM) Y CADA 4" (10 CM) SOBRE EL CENTRO PARA ASEGURAR LAS MANTAS. . EN EL TOPE DE LAS DOS PENDIENTES LATÉRALES DEL CÀNAL, SÉ DEBE SUJETAR TODO EL LARGO DE LA ORILLA DE LAS MANTAS CON UNA LINEA DE GRAPAS O ESTACAS APROXIMADAMENTE CADA 12" (30 CM) UNA DE LA OTRA EN UNA ZANJA DE 6" (15 CM) DE PROFUNDIDAD POR 6" (15 CM) DE ANCHO. RELLENE Y COMPACTE LA ZANJA DESPUES DEL ENGRAPE.

6. LAS MANTAS ADYACENTES DEBEN TRASLAPARSE APROXIMADAMENTE DE 2" - 5" (5 CM - 12.5 CM) (DEPENDIENDO DEL TIPO DE. MANTA) Y ENGRAPPARSE. . EN APLICACIONES PARA CANALES DE FLUJO ALTO, SE RECOMIENDA DEJAR UNA RANURA PARA EL CHEQUEO DE LAS GRAPAS A INTERVALOS DE 30 A 40 PIES (9 M — 12 M). USE UNA LINEA DOBLE DE PRAPAS ESCALONADAS, SEPARADAS POR 4" (10 CM) Y CADA 4" (10 CM) SOBRE EL CENTRO A TRAVES DE TODO EL ANCHO 8. LOS BORDES FINALES DE LAS MANTAS DEBEN SUJETARSE CON UNA LINEA DE GRAPAS O ESTAÇAS APROXIMADAMENTE CADA 12" 30 CM) UNA DE LA OTRA EN UNA ZANJA DE 6" (15 CM) DE PROFUNDIDAD POR 6" (15 CM) DE ANCHO. RELLENE Y COMPACTE DESPUES DEL ENGRAPADO. NOTA:

* EN CONDICIONES DE SUELTO, PUEDE QUE SE NECESITEN GRAPAS O ESTACAS DE MAS DE 6" (15 CM) DE LARGO PARA ASEGURAR LAS MANTAS CORRECTAMENTE.

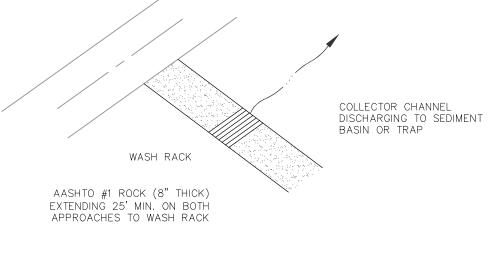


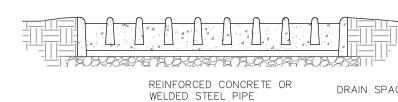


- 1. FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH,
- DOUBLE STITCHED 'J' TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME HALF 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FULL.
- 3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREAS, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW PATH SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%.
 THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE
- MANUFACTURER AND SECURELY CLAMPED. 5. THE PUMP RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE
- MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.

 6. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

PUMPED WATER FILTER BAG NOT TO SCALE





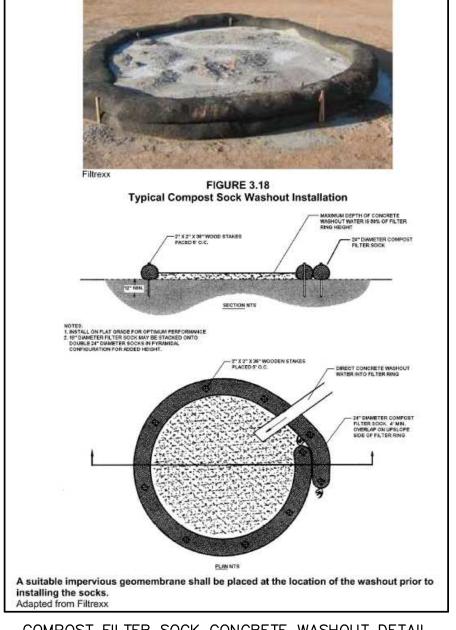
WASH RACK SHALL BE 20 FEET (MIN.) WIDE OR TOTAL WIDTH OF ACCESS. WASH RACK SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED CONSTRUCTION VEHICULAR TRAFFIC.

A WATER SUPPLY SHALL BE MADE AVAILABLE TO WASH THE WHEELS OF ALL VEHICLES EXITING MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. DRAIN SPACE UNDER WASH RACK SHALL BE KEPT OPEN AT ALL TIMES. DAMAGE TO THE WASH RACK SHALL BE REPAIRED PRIOR TO FURTHER USE OF THE RACK. ALL SEDIMENT DEPOSITED ON ROADWAYS SHALL BE REMOVED AND

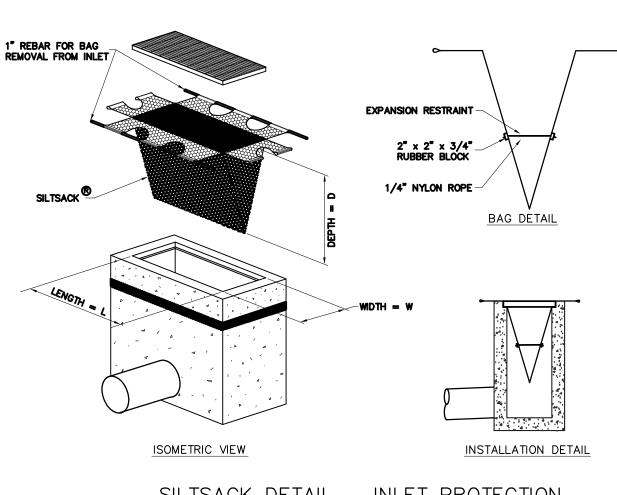
RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE ROADWAY OR SWEEPING

THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS

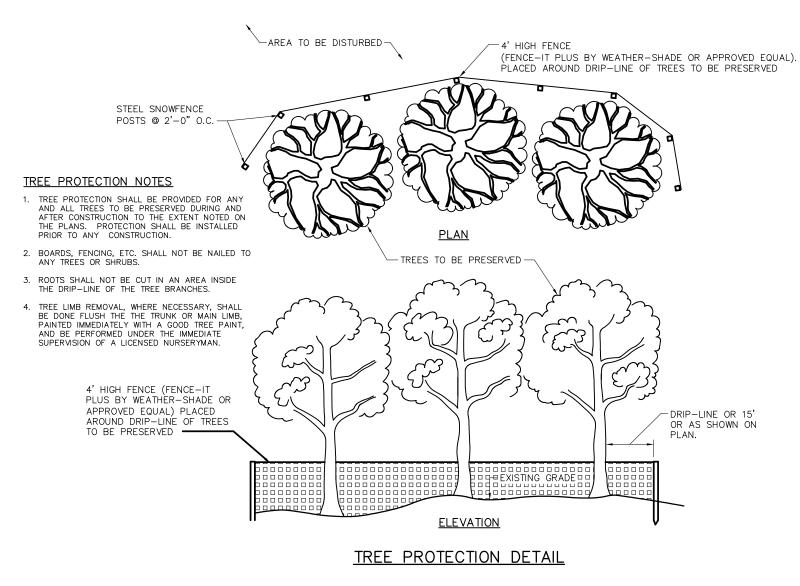
STANDARD CONSTRUCTION DETAIL #3-2 ROCK CONSTRUCTION ACCESS WITH WASH RACK

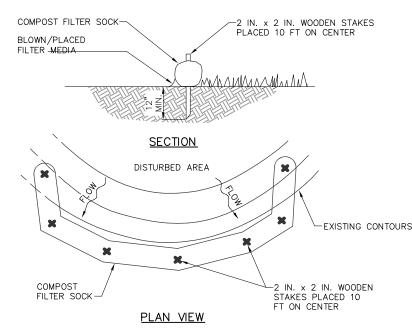


COMPOST FILTER SOCK CONCRETE WASHOUT DETAIL



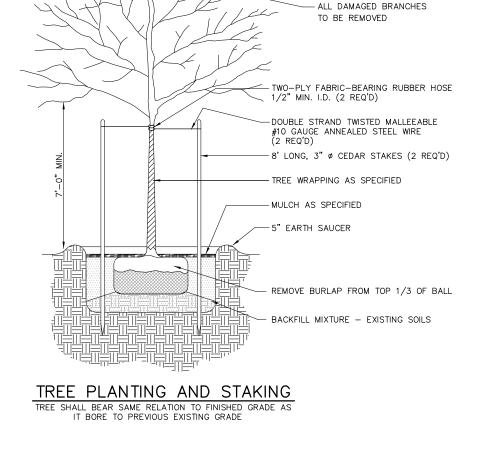
<u>SILTSACK DETAIL - INLET PROTECTION</u> NOT TO SCALE

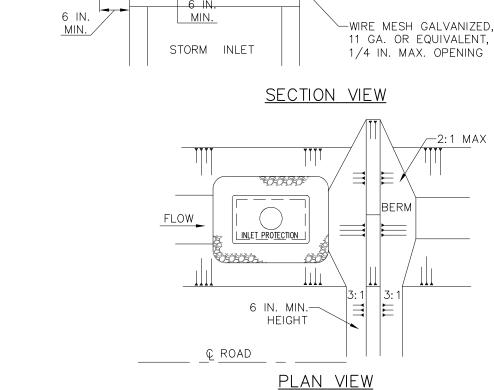




NOTES: SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST FILL MATERIALS SHALL BE KILN DRIED WOOD CHIPS (SILTWORM) OR AND ABACT APROVED EQUAL. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.





NOTES:

PIPE 15 IN. DIA. MIN.-

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS NOT LOCATED AT A LOW POINT. ROLLED EARTHEN BERM IN ROADWAY SHALL BE PROVIDED AND MAINTAINED IMMEDIATELY DOWN GRADIENT OF THE PROTECTED INLET UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED

STONE INLET PROTECTION AND BERM FOR A TYPE M INLET CAN BE USED IN ONE ACRE MAXIMUM DRAINAGE AREA WITH 15 IN. OVERFLOW PIPE AND 4 IN. HEAD. A PERFORATED PLATE WELDED TO A METAL RISER MAY NOT BE SUBSTITUTED FOR THE WIRE MESH. A SLOTTED PLATE WELDED TO THE RISER MAY BE USED IN CONJUNCTION WITH THE WIRE MESH IF CALCULATIONS ARE PROVIDED TO SHOW SUFFICIENT CAPACITY OF THE INLET TO ACCEPT THE PEAK RUNOFF FOR A 2-YEAR STORM EVENT FROM THE TRIBUTARY DRAINAGE AREA. TOP OF PIPE SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADWAY IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC. EARTHEN BERM SHALL BE

UNTIL PERMANENT STABILIZATION IS COMPLETED OR TO REMAIN PERMANENTLY.

SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE STONE. DAMAGED OR CLOGGED INSTALLATIONS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

FOR SYSTEMS DISCHARGING TO HQ OR EV SURFACE WATER, A 6 IN. THICK COMPOST LAYER SHALL BE SECURELY ANCHORED ON OUTSIDE AND OVER TOP OF STONE. COMPOST SHALL MEET THE STANDARDS IN TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL #4-20 STONE INLET PROTECTION AND BERM - TYPE M INLET

STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK

Pennsylvania One Call System, Inc. SERIAL NO. 2022-1160890 Call Before You Dig in Pennsylvania 1-800-242-1776 State Law Requires

<u>OWNER OF RECORD:</u> MR. KIRAN PATEL 5 WEST BRISTER ROAD NSALEM, PA 19020 APPLICANT: MR. KIRAN PATEL 415 WEST BRISTER ROAD BENSALEM, PA 19020

Date: Scale: 22-04019 Acreage No. of Lots REVISION SEE TABLES |Checked By: esigned By: |Drawn By: STAFF STAFF L.Y.

3/17/24 CLS TOWNSHIP ENGINEERS REVIEW LETTER DATE DRAWN E DESCRIPTION SCALE IN FEET

PLAN VIEW

-SILT SOCK ON DOWNSLOPE

TRI-STATE ENGINEERS & LAND SURVEYORS, INC. CIVIL ENGINEER • MUNICIPAL ENGINEERS • LAND SURVEYORS• LAND PLANNERS• LANDSCAPE ARCHITECT 801 WEST STREET ROAD, FEASTERVILLE, PENNSYLVANIA 19053 PHONE: 215-357-5950



PRELIMINARY/FINAL **E&S CONTROL DETAILS**

CORNER OF RICHLIEU ROAD & GALLOWAY ROAD TMP 02-046-001 **BENSALEM TOWNSHIP BUCKS COUNTY PENNSYLVANIA**

SHEET 9 OF 17

-EARTHEN BERM

TEMPORARY OR

PERMANENT VEGETATION

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Construction Phase: Three working Days Notice Design Phase: Ten working Days Notice Facility Owners: Member of One Call System

PROFILE

SILT SOCK MUST BE PLACED AROUND THE PERIMETER OF ALL STOCKPILES. IMMEDIATELY APPLY TEMPORARY SEEDING TO

TOPSOIL STOCKPILE AREA DETAIL NOT TO SCALE

| 112.55 | E/ONE SEWER SYSTEM 3 | LID ELEV. 115.10 | INV. IN 110.35 (4" PVC)

INV. OUT 111.49 (1-1/4" PVC) BOTTOM ELEV. 109.92

1-1/4" x 3" TEE INV. IN= 106.30 +/
E/ONE SEWER SYSTEM 2

LID ELEV. 115.10

INV. IN 110.27 (4" PVC)

INV. OUT 111.49 (1-1/4" PVC) BOTTOM ELEV. 109.84

PLANTING NOTES:

- 1. PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS AND CLEAN LIP
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT.
- 3. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY, HAVE NORMAL GROWTH HABITS, WELL DEVELOPED BRANCHES, BE DENSELY FOLIATED, HAVE VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES.
- 4. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF THE PLANT MATERIAL
- 5. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISIONS SHALL BE MADE FOR A GUARANTEE OF AT LEAST EIGHTEEN (18) MONTHS FOR TREES AND SHRUBS. REPLACEMENT SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.
- 6. INSOFAR AS IT IS PRACTICABLE, PLANT MATERIALS SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE (3) DAY PERIOD AFTER DELIVERY.
- 7. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH THE 1990 "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN INC., LATEST EDITION.
- 8. ALL PLANTS SHALL BE PLANTED IN TOPSOIL THAT IS THOUROUGHLY WATERED AND TAMPED AS BACKFILLING PROGRESSES. NOTHING BUT SUITABLE TOPSOIL, FREE OF DRY SOD, STIFF CLAY, LITTER, ETC., SHALL BE USED FOR PLANTING.
- 9. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE.
- 10. SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH A LEVEL THAT AFTER SETTLEMENT, A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANT IN THE CENTER OF THE PLANTING PIT.
- 11. EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE NATURAL CHARACTER OF THE PLANT. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS.
- 12. LANDSCAPING CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO PLACEMENT OF LANDSCAPE MATERIAL. CONTRACTOR SHALL NOT PLACE LANDSCAPING MATERIAL ON TOP OF UTILITY PIPING.
- 13. CLEARANCE HEIGHT OF BRANCHING ON ALL SHADE TREES SHALL BE 6'-8".14. PLAN QUANTITIES SHALL SUPERCEDE PLANT LIST.
- 15. THE CENTER OF ALL TREES SHALL BE PLANTED A MINIMUM OF 10 FEET FROM STORM SEWER, SANITARY SEWER AND DOMESTIC WATER LATERALS.

LANDSCAPE COMPLIANCE CALCULATIONS

THE FOLLOWING CHART REPRESENTS THE MINIMUM QUANTITIES FOR LANDSCAPE MATERIAL BASED ON § 201-106 OF THE BENSALEM SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

REQUIREMENT

TEN TREES PER ACRE OF GROSS SITE AREA PLUS ONE TREE FOR EVERY FIVE PARKING SPACES IN ALL OTHER SUBDIVISION AND LAND DEVELOPMENTS.

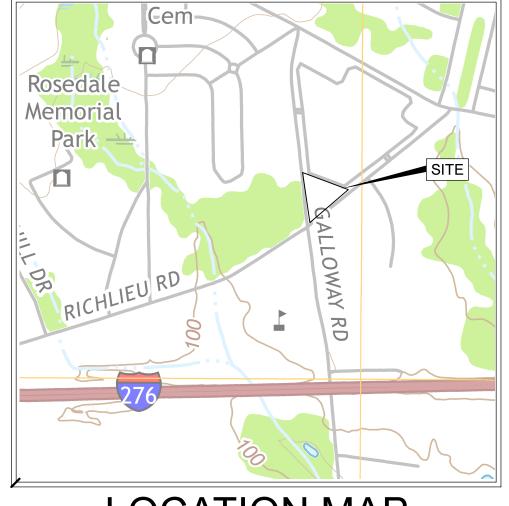
LOCATION	PARKING SPACES	REQUIRED	EXISTING	PROPOSED
PARKING LOT	48	10	0	10
GROSS SITE AREA	1.1 ACRE	10	0	14
TOTAL				24

REQUIREMENT

ZONED IN

STREET TREES SHALL BE PLANTED AT INTERVALS OF NO MORE THAN 20 FEET OR AT A GREATER INTERVAL AS DETERMINED BY THE SHADE TREE COMMISSION DEPENDENT UPON SPECIES SELECTED OR AN EQUIVALENT NUMBER SHALL BE PLATED IN AN INFORMAL ARRANGEMENT, BUT IN NO CASE WILL ANY TREES BE PLANTED IN EXISTING OR PROPOSED STREET RIGHTS—OF—WAY.

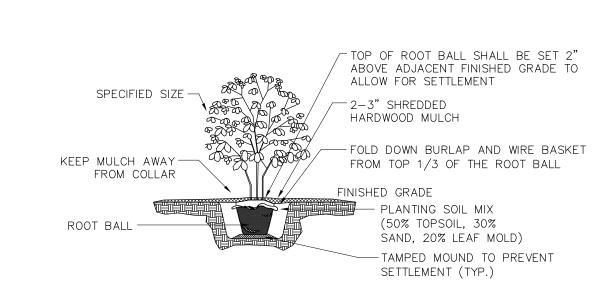
LOCATION	ROAD FRONTAGE	REQUIRED	EXISTING	PROPOSED
RICHLIEU & GALLOWAY ROAD	646	32	0	32



LOCATION MAP

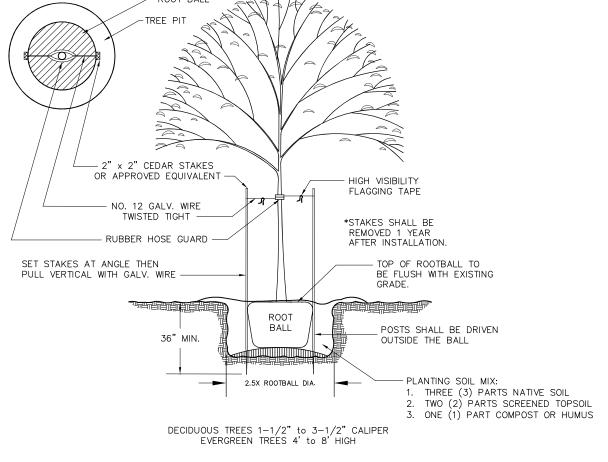
SCALE: 1" = 800'

			PLANT SCHE	DULE			
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	ROOT	SYMBOL
STREET	TREES						
CG	15	CRATAEGUS CRUS-GALLI	"THORNLESS COCKSPUR" HAWTHORNE	2.5" CALIPER MIN.	AS SHOWN	B&B	
JV	17	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	2.5" CALIPER MIN.	AS SHOWN	B&B	
SHADE	TREES						
QC	7	QUERCUS COCCINEA	SCARLET OAK	2.5" CALIPER MIN.	AS SHOWN	B&B	
PV	10	PRUNUS VIRGINIANA	CANADA RED CHERRY	2.5" CALIPER MIN.	AS SHOWN	B&B	
QC	7	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	2.5" CALIPER MIN.	AS SHOWN	B&B	
SHRUBS	5						
TX	12	TAXUS X 'HICKSIL'	HICKS YEW	48" HT.	AS SHOWN	В&В	



SHRUB PLANTING AND SHRUB BED PREPARATION

NOT TO SCALE



TREE STAKING & GUYING SHALL NOT BE IMPLEMENTED UNLESS SITE CONDITIONS SUCH AS WET/UNSTABLE SOILS, EXCESSIVE WIND, AND STEEP SLOPES (3:1 OR GREATER) EXIST. STAKING SHALL NOT BE INSTALLED WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT RESPONSIBLE FOR THE PREPARATION OF THESE PLANS. ALL STAKES SHALL BE PAINTED ORANGE, AND ALL WIRES SHALL BE FLAGGED WITH HIGH-VISIBILITY FLAGGING TAPE.

STAKES AND WIRING SHALL BE REMOVED AFTER ONE (1) FULL GROWING SEASON. WHEN REMOVED, STAKES SHALL BE DRIVEN BELOW GROUND LEVEL OR REMOVED FROM THE SITE ENTIRELY.

DECIDUOUS TREE PLANTING

NOT TO SCALE

NOIE:

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EXISTING UTILITY

EXISTING T.G. INLET

EXISTING SANITARY MH

EXISTING WATER VALVE

EXISTING TRAFFIC SIGN

EXISTING BOUNDARY SOILS TYPE

EXISTING IRON PIN

SOIL TEST PIT

EXISTING SPOT ELEVATION

POLES

Pennsylvania One Call System, Inc.
SERIAL NO. 2022—1160890

Call Before You Dig
in Pennsylvania
1-800-242-1776

FH 💢

PROPOSED ORANGE

CONSTRUCTION FENCE

EXISTING FIRE HYDRANT

EXISTING UTILITY POLE

SITE BENCHMARK

State Law Requires
Construction Phase: Three working Days Notice
Design Phase: Ten working Days Notice
Facility Owners: Member of One Call System

OWNER OF RECORD:
MR. KIRAN PATEL
415 WEST BRISTER RUAD
BENSALEM, PA 19020

APPLICANT:
MR. KIRAN PATEL
415 WEST BRISTER RUAD
BENSALEM, PA 19020

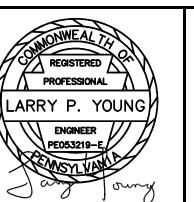
4 3 CIVI 8 2 1 TOWNSHIP ENGINEERS REVIEW LETTER 3/17/24 CLS REVISION DESCRIPTION DATE DRAWN BY SCALE IN FEET 3/17/24 CLS DESCRIPTION DATE DRAWN BY SCALE IN FEET 3/17/24 CLS DESCRIPTION DATE DRAWN BY SCALE IN FEET 3/17/24 CLS DESCRIPTION DATE DRAWN BY SCALE IN FEET 3/17/24 CLS DESCRIPTION DATE DRAWN BY SCALE IN FEET 3/17/24 CLS DESCRIPTION DATE DRAWN BY SCALE IN FEET 3/17/24 CLS DESCRIPTION DATE DRAWN BY SCALE IN FEET 3/17/24 CLS DESCRIPTION DATE DRAWN BY DESCRIPTION DESCRIPTION DATE DRAWN BY DESCRIPTION DATE DRAWN BY DESCRIPTION DESCRIPTION DATE DRAWN BY DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DATE DRAWN BY DESCRIPTION DES

TRI-STATE ENGINEERS & LAND SURVEYORS, INC.

CIVIL ENGINEER • MUNICIPAL ENGINEERS • LAND SURVEYORS • LAND PLANNERS • LANDSCAPE ARCHITECT

801 WEST STREET ROAD, FEASTERVILLE, PENNSYLVANIA 19053

PHONE: 215-357-5950



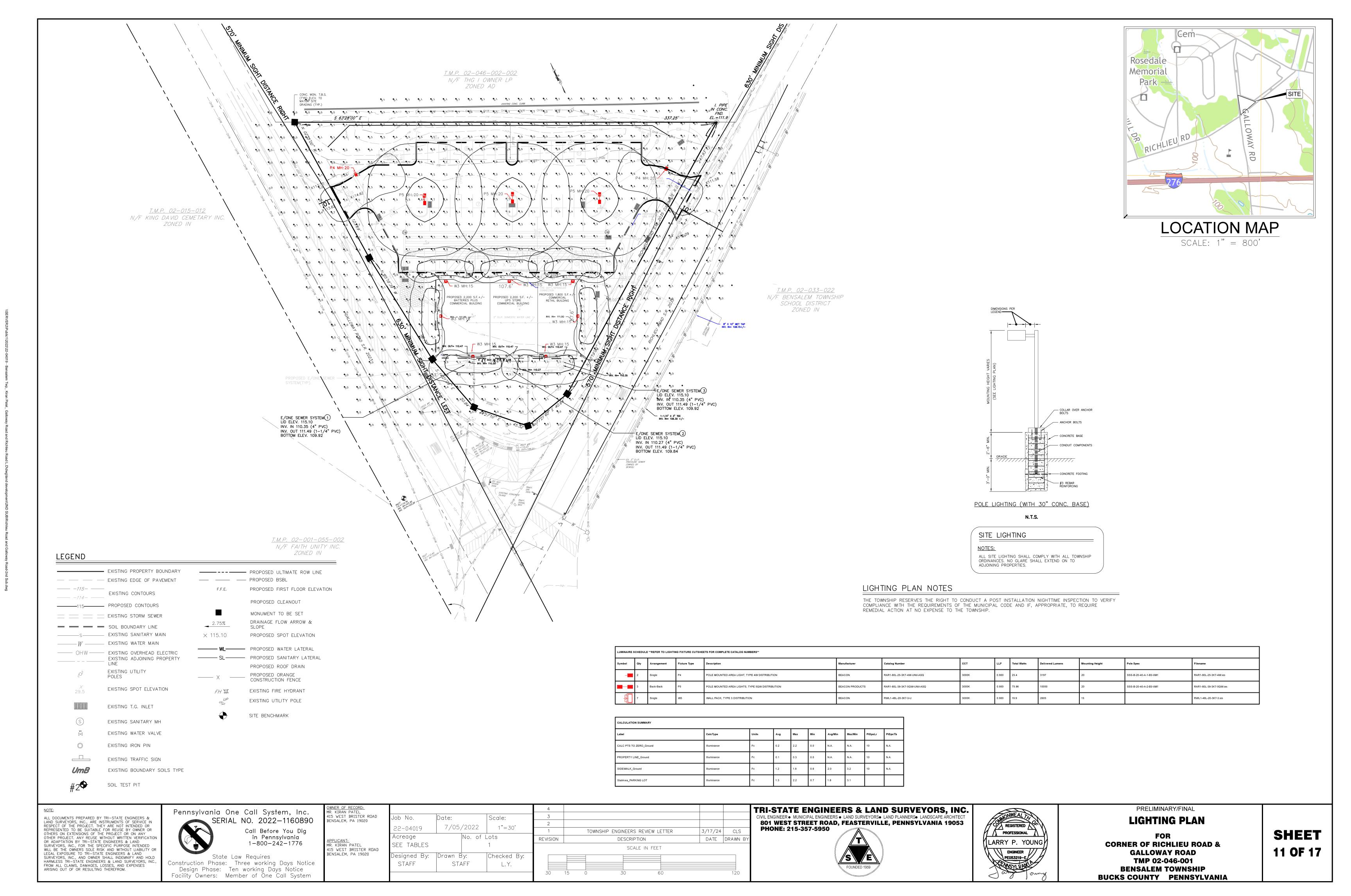
LANDSCAPING PLAN

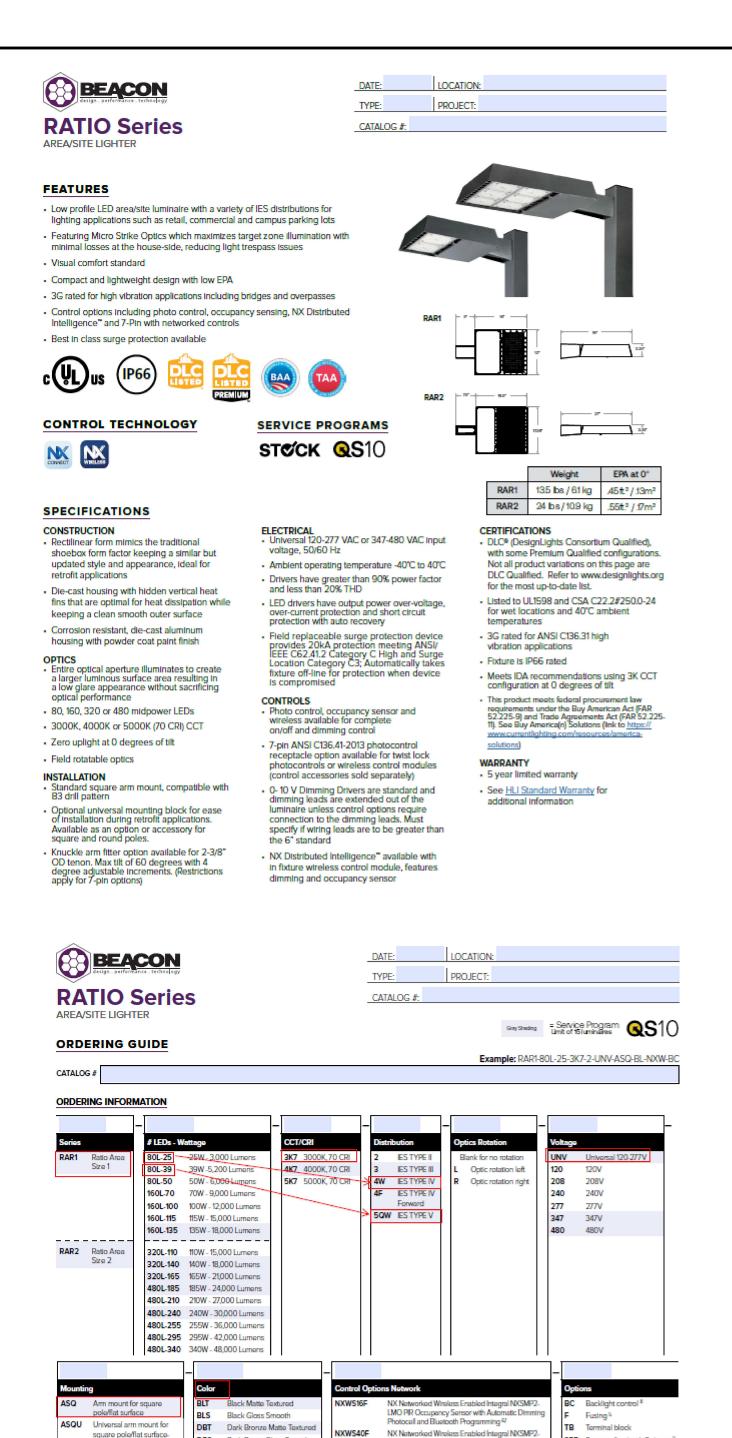
PRELIMINARY/FINAL

FOR
CORNER OF RICHLIEU ROAD &
GALLOWAY ROAD
TMP 02-046-001
BENSALEM TOWNSHIP

BUCKS COUNTY PENNSYLVANIA

SHEET 10 OF 17





DBS Dark Brone Gloss Smooth

GTT Graphite Matte Textured

WHT White Matte Textured

WHS White Gloss Smooth

Replace "_" with "3" for 3.5".4.13" OD pole, "4" for 4.18".5.25" OD pole, "5" for 5.5".6.5" OD pole

Not available with 25, 50, 255, 295 & 340W configurations At least one SCPREMOTE required to program SCP motion sensor

6 Networked Controls cannot be combined with other control options

Light Grey Glass Smooth

Platinum Silver Smooth

Does not include round pole adapt or B3 drill

B3 drill pattern

A_U Universal arm mount for

MAF Mast arm fitter for 2-3/8

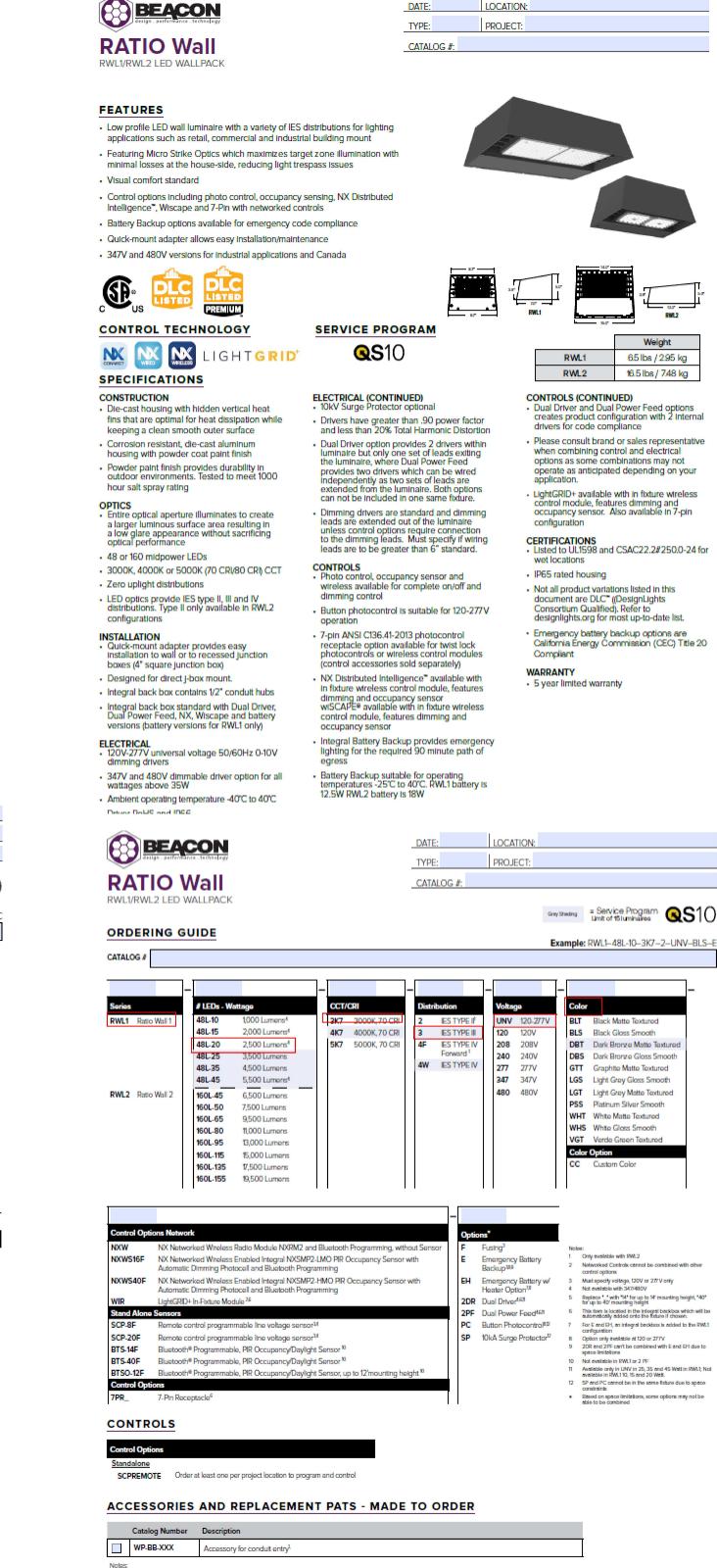
OD horizontal arm

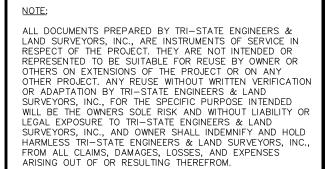
Replace "_" with 8F or 40F lens

Not available with 2FF option 8 BC not available on 4F distributions

5 Must specify voltage

Current @



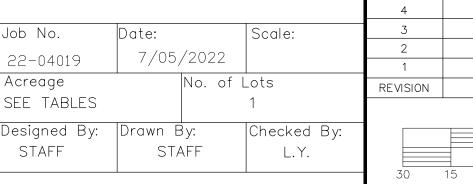


Pennsylvania One Call System, Inc. SERIAL NO. 2022-1160890 Call Before You Dig in Pennsylvania 1-800-242-1776

State Law Requires Construction Phase: Three working Days Notice Design Phase: Ten working Days Notice Facility Owners: Member of One Call System

<u>OWNER OF RECORD:</u> MR. KIRAN PATEL 5 WEST BRISTER ROAD NSALEM, PA 19020 <u>APPLICANT:</u> MR. KIRAN PATEL

415 WEST BRISTER ROAD BENSALEM, PA 19020



2PF 2 power feed with 2 drivers²

Page 2 of 15

Rev 10/02/23

BEA_Ratio_RAR_1_2_Spec_R06

HMO PIR Occupancy Sensor with Automatic

7-Pin twist lock receptacle

7-Pin PCR with photocontrol

AutoDim Timer Based Dimming

AutoDim Time of Day Dimming

Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens ⁹ Bluetooth® Programmable, BTSMP-LMO PIR

Occupancy Sensor with Automatic Dimming Photocell and 360° Lens®

Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens ⁹

7PR-SC 7-Pin receptacle with shorting cap

7 PR-MD40F Low voltage sensor for 7PR

7 PR-TL

BTS-14F

BTS-40F

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without notice. All values are design or typical values when measured under laboratory conditions

currentlighting.com/beacon

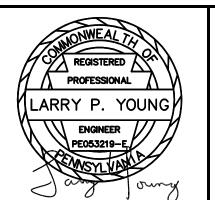
Dimming Photocell and Bluetooth Programming 6

NX Networked Wheless Radio Module NXRM2 and

3/17/24 CLS TOWNSHIP ENGINEERS REVIEW LETTER DATE DRAWN E DESCRIPTION SCALE IN FEET

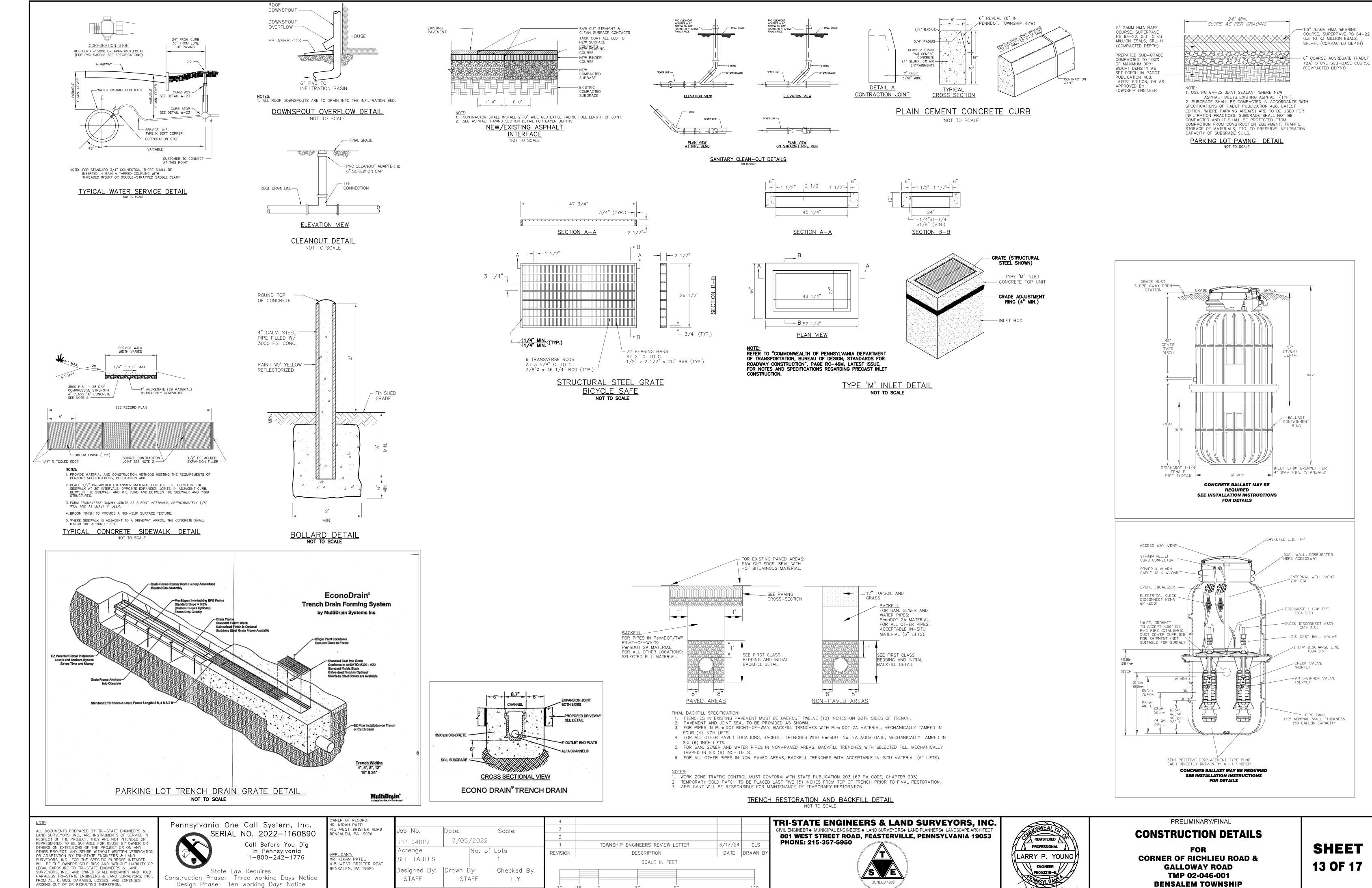
replace "xxx" with color option

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PRELIMINARY/FINAL LIGHTING & LANDSCAPING **NOTES & DETAILS**

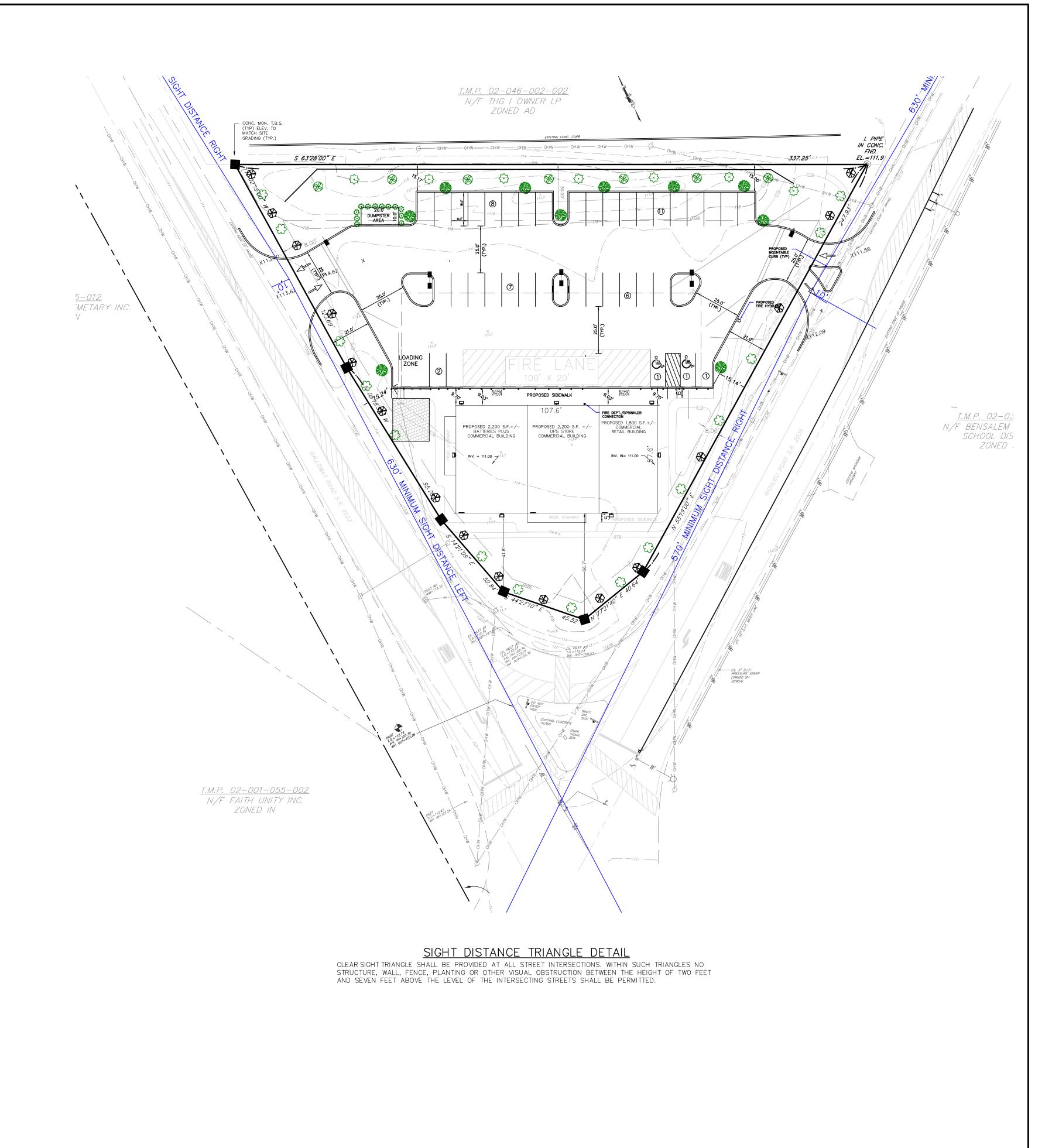
CORNER OF RICHLIEU ROAD & GALLOWAY ROAD TMP 02-046-001 BENSALEM TOWNSHIP **BUCKS COUNTY PENNSYLVANIA** SHEET 12 OF 17



BUCKS COUNTY PENNSYLVANIA

\\SERVER2\Public1\2022\22-04019 - Bensalem Twp_Kiran Patel_ Galloway Road and Richlieu Road L.D\dwg\land development\2ND SUB\Richlieu Road and Galloway Road-2

Facility Owners: Member of One Call System



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Design Phase: Ten working Days Notice

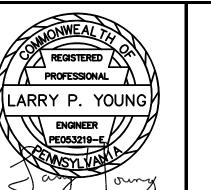
SERIAL NO. 2022-1160890 Call Before You Dig in Pennsylvania 1-800-242-1776 State Law Requires

APPLICANT: MR. KIRAN PATEL 415 WEST BRISTER ROAD BENSALEM, PA 19020 Construction Phase: Three working Days Notice Facility Owners: Member of One Call System

Scale: BENSALEM, PA 19020 7/05/2022 22-04019 Acreage No. of Lots REVISION SEE TABLES esigned By: |Drawn By: Checked By: STAFF STAFF L.Y.

3/17/24 CLS TOWNSHIP ENGINEERS REVIEW LETTER DATE DRAWN B DESCRIPTION SCALE IN FEET

TRI-STATE ENGINEERS & LAND SURVEYORS, INC. CIVIL ENGINEER • MUNICIPAL ENGINEERS • LAND SURVEYORS • LAND PLANNERS • LANDSCAPE ARCHITECT 801 WEST STREET ROAD, FEASTERVILLE, PENNSYLVANIA 19053 PHONE: 215-357-5950



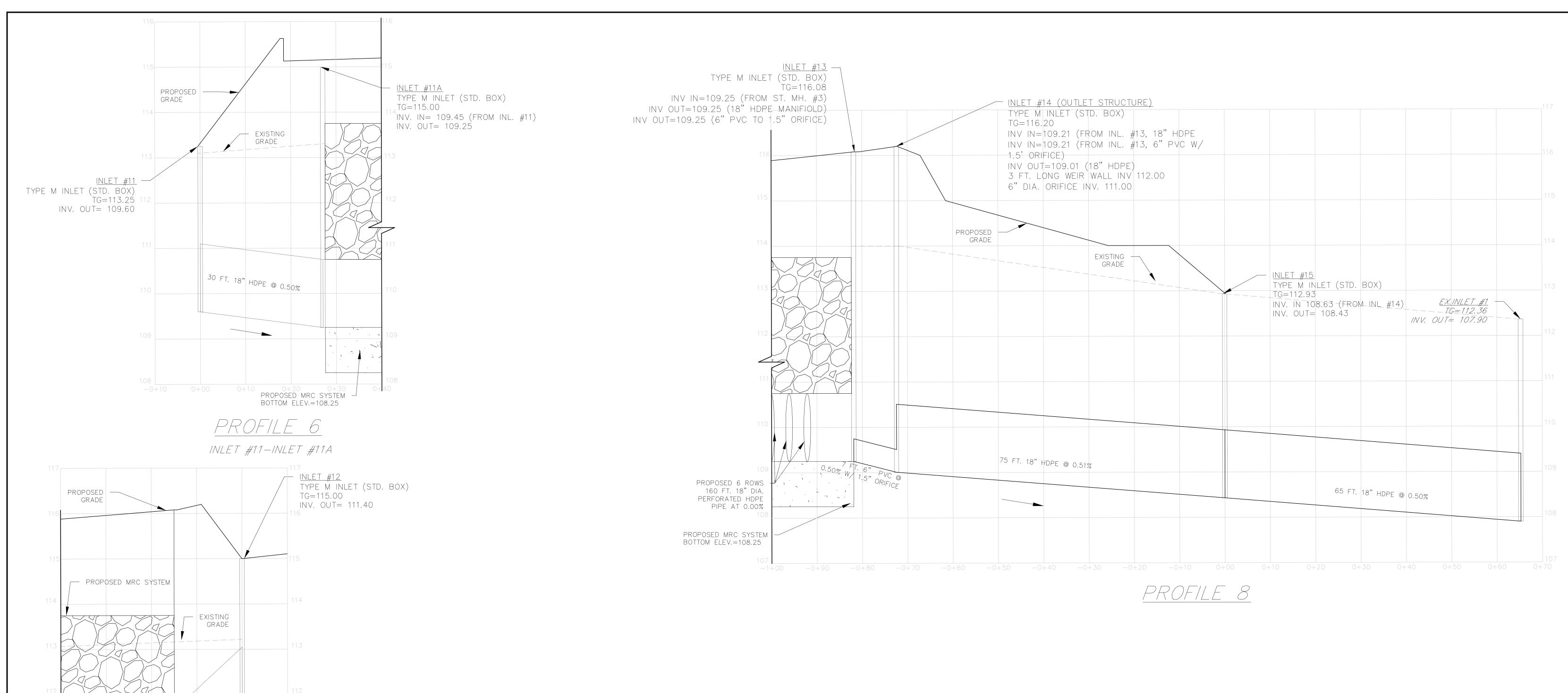
PRELIMINARY/FINAL **CONSTRUCTION DETAILS**

CORNER OF RICHLIEU ROAD & GALLOWAY ROAD TMP 02-046-001 **BENSALEM TOWNSHIP BUCKS COUNTY PENNSYLVANIA**

SHEET 14 OF 17

BUCKS COUNTY PENNSYLVANIA

Facility Owners: Member of One Call System



PROFILE Z INLET #12-MRC SYSTEM

PROPOSED 6 ROWS 160 FT. 18" DIA. PERFORATED HDPE PIPE AT 0.00%

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Pennsylvania One Call System, Inc. SERIAL NO. 2022-1160890 Call Before You Dig in Pennsylvania

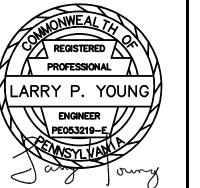
1-800-242-1776 State Law Requires Construction Phase: Three working Days Notice Design Phase: Ten working Days Notice Facility Owners: Member of One Call System

OWNER OF RECORD: MR. KIRAN PATEL 415 WEST BRISTER ROAD APPLICANT: MR. KIRAN PATEL 415 WEST BRISTER ROAD BENSALEM, PA 19020

Scale: 1" = 10' 7/05/2022 22-04019 Acreage No. of Lots SEE TABLES Checked By: esigned By: |Drawn By: STAFF STAFF L.Y.

3/17/24 CLS TOWNSHIP ENGINEERS REVIEW LETTER DATE DRAWN B DESCRIPTION REVISION SCALE IN FEET

TRI-STATE ENGINEERS & LAND SURVEYORS, INC. CIVIL ENGINEER • MUNICIPAL ENGINEERS • LAND SURVEYORS• LAND PLANNERS• LANDSCAPE ARCHITECT 801 WEST STREET ROAD, FEASTERVILLE, PENNSYLVANIA 19053 PHONE: 215-357-5950



PRELIMINARY/FINAL **PROFILES**

CORNER OF RICHLIEU ROAD & GALLOWAY ROAD TMP 02-046-001 **BENSALEM TOWNSHIP BUCKS COUNTY PENNSYLVANIA**

SHEET 16 OF 17



NOTE:

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Pennsylvania One Call System, Inc.
SERIAL NO. 2022—1160890

Call Before You Dig
in Pennsylvania
1-800-242-1776

State Law Requires Construction Phase: Three working Days Notice Design Phase: Ten working Days Notice Facility Owners: Member of One Call System

OWNER OF RECORD:
MR. KIRAN PATEL
415 WEST BRISTER RUAD
BENSALEM, PA 19020

APPLICANT:
MR. KIRAN PATEL
415 WEST BRISTER RUAD
BENSALEM, PA 19020

Job No. Date: Scale:

22-04019 7/05/2022 1" = 50'

Acreage No. of Lots

SEE TABLES 1

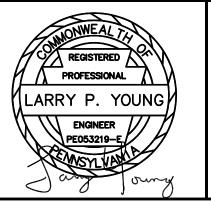
Designed By: Drawn By: Checked By: STAFF STAFF L.Y.

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801 WEST STREET ROAD, FEASTERVILLE, PENNSYLVANIA 19053
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FAX: 215-357-2836

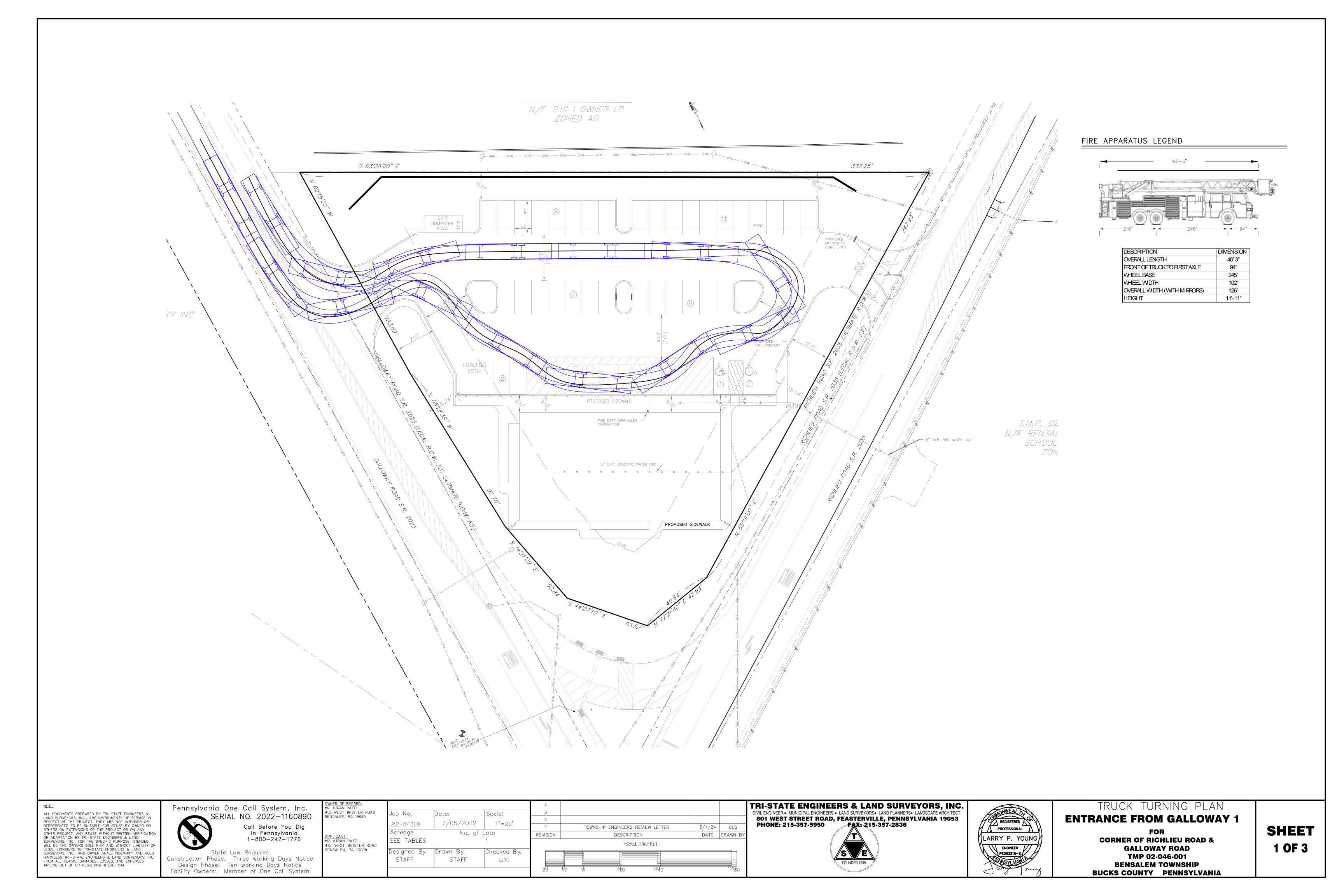


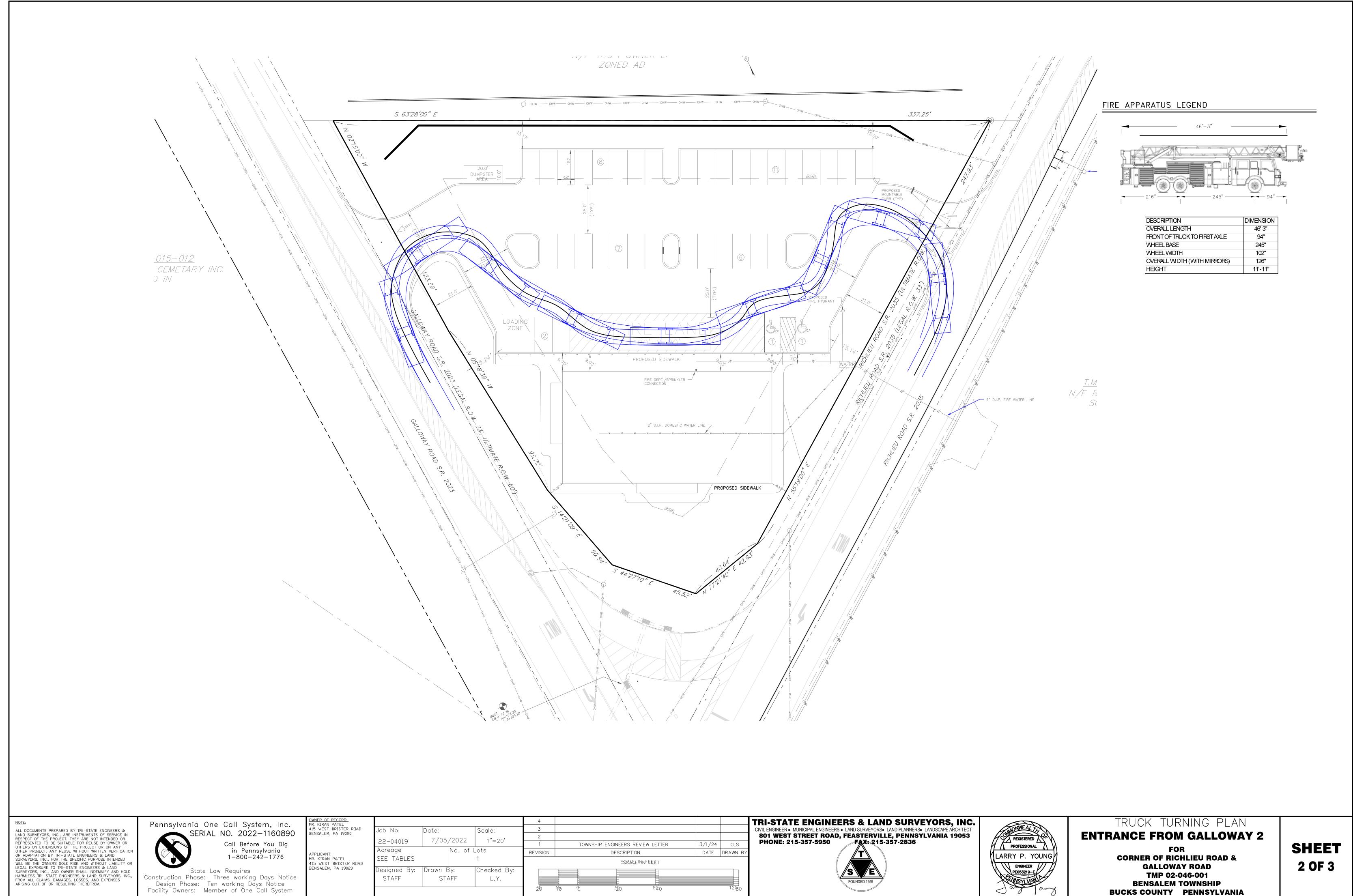
PRELIMINARY/FINAL

ARIAL PLAN

FOR
CORNER OF RICHLIEU ROAD &
GALLOWAY ROAD
TMP 02-046-001
BENSALEM TOWNSHIP
BUCKS COUNTY PENNSYLVANIA

SHEET 17 OF 17





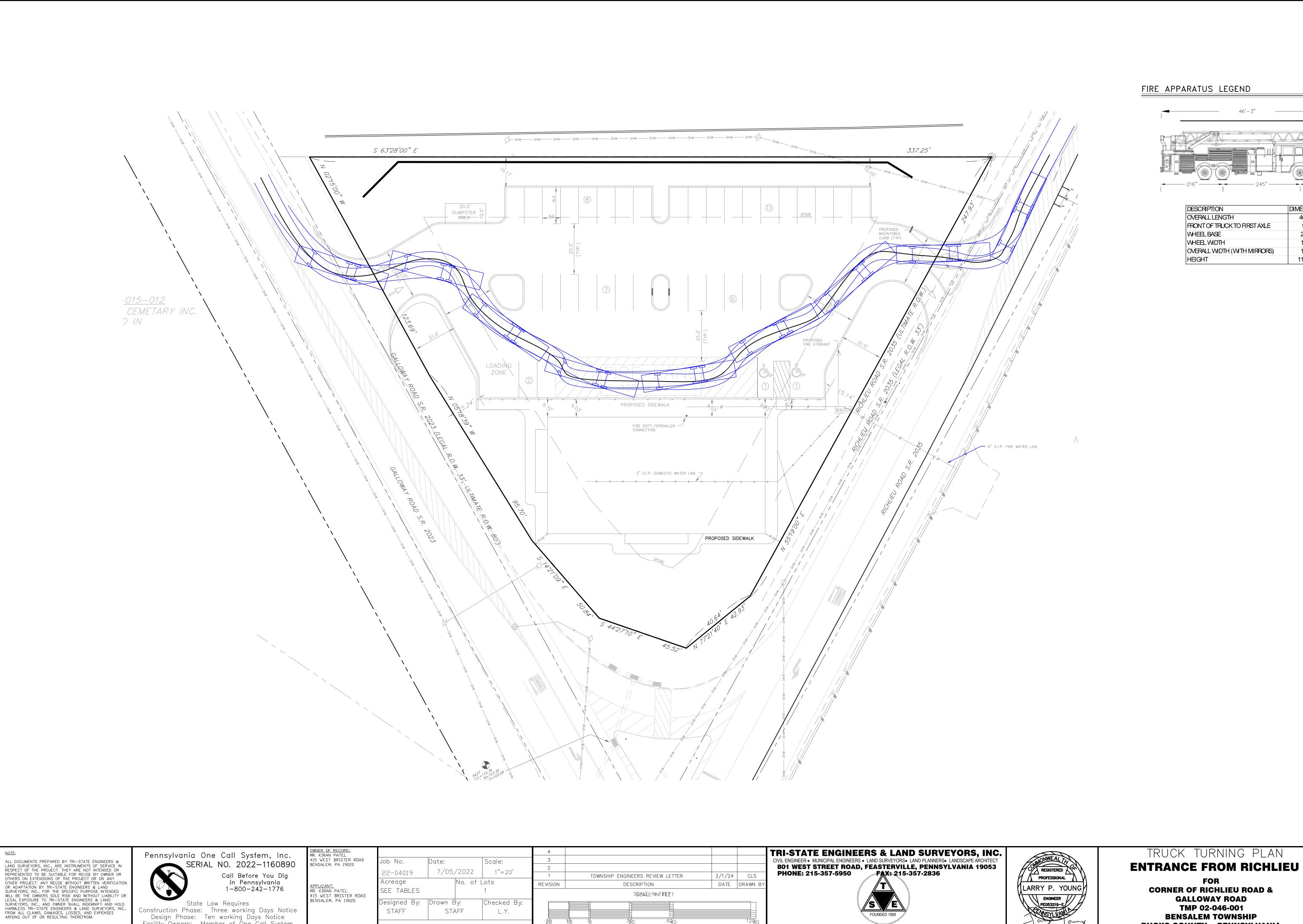
STAFF

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L.Y.

TMP 02-046-001

BENSALEM TOWNSHIP BUCKS COUNTY PENNSYLVANIA



Checked By:

L.Y.

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STAFF

State Law Requires
Construction Phase: Three working Days Notice
Design Phase: Ten working Days Notice
Facility Owners: Member of One Call System

SHEET 3 OF 3

TMP 02-046-001

BENSALEM TOWNSHIP BUCKS COUNTY PENNSYLVANIA

DIMENSION

46' 3"

94"

102"

126" 11'-11" David H. Horner, P.E., PTOE, President Hasson A. Keene, Associate

April 3, 2024

Mr. Kenneth Farrall, PLS Planning and Zoning Board Director Bensalem Township 2400 Byberry Road Bensalem, PA 19020

Re: Galloway & Richlieu Road Retail Development

TMP #02-046-001

Bensalem Township, Bucks County, Pennsylvania HCA File No. 22-062

Dear Mr. Farrall:

Horner & Canter is submitting an updated Traffic Impact Assessment, dated March 29, 2024, for the above-referenced application. The updated study was prepared to address the traffic study comments contained in the January 2024 review by Traffic, Planning & Design, Inc. (TPD).

Our responses to TPD's traffic study comments are provided for your consideration below. We understand that the remaining comments are being addressed by Tri-State Engineers & Land Surveyors under separate cover.

General Comments

- 2. a. The HCS files have been provided.
 - b. Updated traffic count data sheets are provided in Appendix B of the updated traffic study.
 - c. The intersection of Richlieu Road/Galloway Road (AM, PM and SAT) and Bristol Road/Richlieu Road (PM only) have been recounted in late March 2024 on days unaffected by school closures.
 - d. Figure 12 has been revised to correct the entering site volumes.

- e. The intersection of Bristol Road/Richlieu Road has been analyzed as a signalized intersection in the No-Build and Build scenarios.
- f. Based on the new counts and the re-analysis, the WB left-turn queues on Richlieu Road at Galloway Road will be fully contained within the left-turn lane and will not spill back into the through lanes.

If you have any questions, please do not hesitate to call me.

Very truly yours,

David H. Horner, P.E., PTOE

DHH/mac

cc: Tri-State Engineers & Surveyors

TRAFFIC IMPACT ASSESSMENT

PROPOSED RETAIL CENTER (TMP 02-046-001)

Bensalem Township, Bucks County

Pennsylvania

November 10, 2023 Updated March 29, 2024



Horner & Canter Associates A PROFESSIONAL CORPORATION TRANSPORTATION AND TRAFFIC ENGINEERING

TRAFFIC IMPACT ASSESSMENT

PROPOSED RETAIL CENTER (TMP 02-046-001)

Richlieu Road (SR 2035) Galloway Road (SR 2023) Bensalem Township Bucks County Pennsylvania

Prepared by:

HORNER & CANTER ASSOCIATES A Professional Corporation Transportation and Traffic Engineering 4950 York Road, Suite 2G P.O. Box 301 Holicong, Pennsylvania 18928 PROFESSIONAL

DAVID H. HORNER

ENGRGER

43105-E

March 29, 2024

David H. Horner, P.E., PTOE

and H. Ha

Professional Engineer

PA Lic. No. PE-043105-E

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APPENDICES

APPENDIX A - Traffic Signal Plans

APPENDIX B - Traffic Counts

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APPENDIX E - Trip Generation Worksheets

APPENDIX F - No-Build Capacity/LOS Analysis Worksheets

APPENDIX G - Build Capacity/LOS Analysis Worksheets

INTRODUCTION

Horner & Canter Associates has prepared this updated Traffic Impact Assessment for the proposed 6,200 square feet retail center situated on TMP 02-046-001 in Bensalem Township, Bucks County, Pennsylvania (Figure 1). The site is located on the northeast corner of Richlieu Road (SR 2035) and Galloway Road (SR 2023). Access to the proposed retail center will be provided via a full access driveway intersecting Galloway Road (SR 2023) and a right-turn-in/right-turn-out only access driveway intersecting Richlieu Road (SR 2035).

This report is an update to our November 10, 2023 Traffic Impact Assessment. The update addresses comments contained in the Traffic, Planning & Design (TPD) traffic engineering review prepared on behalf of Bensalem Township.

For the purpose of this Traffic Impact Assessment, the completion and occupancy date of the proposed retail center is assumed to be 2025.

Scope of Study

The purpose of this Traffic Impact Assessment is to determine the traffic impact the proposed development will have with respect to the conditions on the adjacent roadways and intersections. The study scope includes the following:

- A site inspection and inventory of existing roadway features such as geometric layout,
 lane configurations, traffic control devices, and other pertinent physical characteristics.
- Conduct of Manual Turning Movement (MTM) counts for the weekday AM (7:00 AM 9:00 AM), weekday PM (4:00 PM 6:00 PM), and Saturday midday (11:00 AM 1:00 PM) peak periods at the following intersections which constitute the study area:
 - Richlieu Road (SR 2035)/Galloway Road (SR 2023)
 - Galloway Road (SR 2023)/Bristol Road (SR 2025)
 - Richlieu Road (SR 2035)/Bristol Road (SR 2025)
- Projection of development-generated traffic volumes and distribution of this traffic to the study area roadway network.

- Establishment of future traffic volumes for the study horizon year (2025) including background traffic growth projections and the site-generated traffic.
- Analysis of existing, future No-Build and future Build traffic conditions at the study area intersections and the proposed site access intersections.
- Formulation of conclusions with regard to the traffic impact of the proposed development.

EXISTING CONDITIONS

The study area roadway network was inventoried with regard to the existing physical and operating characteristics as they affect traffic flow. The study area roadway network is described in further detail below.

The site fronts on **Richlieu Road**, a State highway carrying the SR 2035 designation in a general east-west direction. Richlieu Road generally provides one travel lane in each direction with the westbound lane transitioning to two lanes along the site frontage approaching the signalized intersection with Galloway Road. The posted speed limit on Richlieu Road is 40 miles per hour.

The site also fronts on **Galloway Road**, a State highway carrying the SR 2023 designation in a general north-south direction. Galloway Road along the site frontage provides one travel lane in each direction. The posted speed limit on Galloway Road is 40 miles per hour.

The nearest signalized intersection to the site is Richlieu Road (SR 2035)/Galloway Road (SR 2023). The study area intersection of Galloway Road (SR 2023)/Bristol Road (SR 2025) is also signalized, while the study area intersection of Richlieu Road (SR 2035)/Bristol Road (SR 2025) is proposed to be signalized within the future horizon year of this study. The Traffic Signal Permit plans for all three intersections and the System Permit Plan #I-0022 are provided for reference in Appendix A.

Existing Traffic Volumes

Since the peak hour traffic conditions reflect the critical periods for evaluation of operating conditions and traffic impact, existing traffic volumes were acquired at the study area intersections through the conduct of peak hour Manual Turning Movement (MTM) traffic counts conducted by our firm. The counts were conducted during the weekday AM (7:00-9:00 AM), weekday PM (4:00-6:00 PM) and Saturday midday (11:00 AM-1:00 PM) peak periods in September 2023 while school was in session. Supplemental counts were completed in March 2024 to address TPD concerns about some of the prior counts being conducted when school was closed for a three-day holiday weekend. These count periods were selected to capture both

the peak hours of adjacent street traffic and the peak periods of the proposed development. The summarized MTM counts are provided for reference in Appendix B.

The resultant existing peak hour traffic volumes are presented in Figures 2, 3, and 4 for the respective peak periods.

Bicycle and Pedestrian Facilities

There are no existing sidewalks or designated bicycle paths along the site frontage roadways within the study area.

Public Transportation

The study area is served by SEPTA bus routes 128 and 130, both of which traverse Galloway Road in the vicinity of the site.

Scheduled Roadway Improvements

Per review of the PennDOT Transportation Improvement Program (TIP), there are no scheduled roadway improvements within the study area. It is noted that improvements by others to the off-site signalized intersection of Bristol Road (SR 2025)/Galloway Road (SR 2023) have been approved but not yet implemented. The intersection of Richlieu Road (SR 2035)/Bristol Road (2025) is proposed to be signalized within the horizon year of this study. This signalization is assumed in place for the No-Build and Build conditions analysis.

Existing Levels of Service

The operating conditions of the study area intersections was determined through the conduct of a capacity/Level of Service (LOS) analysis using the Highway Capacity Software which applies the methodologies contained in the Highway Capacity Manual (HCM 7th Edition). Level of Service (LOS) is a measure of the quality of the traffic flow and generally is expressed as follows:

Level of Service A - Excellent - Free flow

B - Very Good - Minor adjustments in traffic flows

C - Good - Stable flow of traffic

D - Satisfactory flow - Occasional short periods with minor delays

E – Approaching Capacity - Regular delays

F - Forced Flow - Significant delays

At signalized intersections, LOS is based on the average delay for all movements at the intersection. At unsignalized intersections, LOS is based on the average delay to controlled and yielding movements, such as exiting movements from a stop sign or the left-turn from a through street into a side street. The delay thresholds for various Levels of Service are contained in Appendix C.

The existing LOS findings for the study area intersections are presented in Figure 5. The detailed existing capacity/LOS analysis worksheets are provided in Appendix D.

SITE TRAFFIC

The determination of the amount of traffic that a proposed development will generate can best be made by comparison with similar sites. The Institute of Transportation Engineers (ITE) publication *Trip Generation Manual, 11th Edition* is a compilation of trip generation studies for a variety of land uses and is considered the primary data source for trip generation projections. For the proposed retail center, Land Use Code 822 – Strip Retail Plaza (<40k) was selected as the most appropriate.

Table 1 presents the projected development-generated traffic for the site based on the ITE database. The trip generation worksheets are provided for reference in Appendix E.

Table 1 Site Trips										
		AM	Peak H	Hour PM Peak Ho			lour	ur SAT Peak Hour		
	Daily	In	Out	Total	In	Out	Total	ln	Out	Total
Retail Center (6,200 s.f.)	491	13	8	21	28	27	55	21	20	41
-Pass-by Trips ⁽¹⁾	n/a	-0	-0	-0	-10	-9	-19	-6	-5	-11
"New" Trips	n/a	13	8	21	18	18	36	15	15	30

⁽¹⁾ ITE Trip Generation Handbook, 3rd Edition: AM Pass-By 0%; PM Pass-By 34%; SAT Pass-By 26%

As noted in Table 1, not all trips associated with the proposed use are new trips to the roadway network. Retail uses have a component of traffic identified as "pass-by" traffic, defined as traffic that is already on the adjacent roadway network as part of an existing trip (i.e. hometo-work trip) and stops at the site as part of a dual-purpose trip.

The "new" site trips at the bottom of Table 1 were distributed to the proposed site accesses and to the study area roadway network based on the location of residential and business uses within the local service radius of the proposed retail center as reflected by the existing traffic patterns. The "new" site traffic distribution percentages are summarized below:

Richlieu Road (SR 2035) to/from the west	20%
Galloway Road (SR 2023) to/from the south	25%
Bristol Road (SR 2025) to/from the east to/from the west	30% 25%
	100%

The pass-by traffic distribution is based specifically on the existing traffic flows that approach the site along Galloway Road and Richlieu Road with an assumed redistribution of these trips to ingress and egress the site. Because of the redistribution associated with "pass-by" trips there are some traffic movements that realize a reduction in trips associated with the proposed development.

The resultant distributed site trips are depicted in Figures 6A, 6B, and 6C for the new trips, pass-by trips, and total site trips, respectively.

FUTURE CONDITIONS

To assess the impact of the development-generated traffic volumes on the study area roadway network, the future traffic volumes in the anticipated build-out year of the site (2025) were determined. To account for regional growth that is expected to occur during the intervening period, a background traffic growth rate was applied to the existing traffic volumes. Based on PennDOT's growth rates for the area, a 0.16 percent per year background growth was applied (total 0.32 percent over two years) to the existing 2023 traffic volumes. The resultant 2025 No-Build traffic volumes are presented on Figures 7, 8 and 9 for the respective peak periods.

Future Build Traffic Volumes

The total Build 2025 traffic volumes, which include the site-generated traffic volumes distributed to the proposed site accesses and to the study area roadway network, are presented in Figures 10, 11 and 12 for the three study peak periods, respectively.

Proposed Site Access

The retail center is proposed to provide two access driveways as identified below:

- 1) Full movement access driveway via Galloway Road (SR 2023)
- 2) Right-turn-in/right-turn-out only access driveway via Richlieu Road (SR 2035)

The driveways are appropriately positioned in order to maximize the distance to the signalized intersection of Richlieu Road/Galloway Road.

Level of Service (LOS) Assessment

An assessment of the future 2025 No-Build and Build operating conditions within the study area was completed. The assessment included a Level of Service (LOS) analysis of the study area intersections and the proposed site accesses in order to determine if the projected traffic volumes can be acceptably accommodated within the study area and whether any roadway or intersection improvements would be required. The future No-Build LOS results are presented in Figure 13. The future Build LOS results are presented in Figure 14. The detailed capacity

analysis worksheets for the No-Build and Build conditions analyses are contained in Appendices F and G, respectively.

The Level of Service (LOS) results for each of the study locations are detailed below and summarized in Table 2 at the end of this section:

Richlieu Road (SR 2035)/Galloway Road (SR 2023) – This signalized intersection currently operates at acceptable overall LOS C/D during all three peak periods. All of the individual movements are operating at acceptable LOS D or better with the exception of two LOS F movements in the PM peak hour. Under 2025 No-Build and Build conditions the intersection will continue to operate as under existing conditions.

In accordance with PennDOT's *Highway Occupancy Permit Operations Manual (Pub 282)*, a "10-Second Variance" standard was applied to assess whether the site-generated traffic impact would require mitigation improvements at this intersection. Mitigation is not required if there is either no drop in the overall intersection LOS when comparing the Build conditions to the No-Build conditions or there is a drop but the overall intersection delay increase is less than 10 seconds. The "10-Second Variance" chart for this intersection is below:

	No-Build LOS (Delay)	Build LOS (Delay)	Delay Variance	Requirements Met?
AM Peak Hour	C (23.5)	C (23.5)	n/a	Yes
PM Peak Hour	D (48.6)	D (48.7)	n/a	Yes
SAT Peak Hour	C (21.6)	C (21.6)	n/a	Yes

n/a – With no LOS drop, the delay variance is not applicable to the compliance determination

The site-generated traffic can be accommodated at this intersection with no mitigation required.

<u>Galloway Road (SR 2023)/Bristol Road (SR 2025)</u> – This signalized intersection currently operates at acceptable overall LOS B during all three peak periods, with all individual movements operating at acceptable LOS D or better. Under 2025 No-Build and Build conditions the intersection will operate similar to the existing conditions.

In accordance with PennDOT's *Highway Occupancy Permit Operations Manual (Pub 282)*, we applied the "10-Second Variance" standard to assess whether the site-generated traffic impact would require mitigation improvements at this intersection. Mitigation is not required if there is either no drop in the overall intersection LOS when comparing the Build conditions to the No-Build conditions or there is a drop but the overall intersection delay increase is less than 10 seconds. The "10-Second Variance" chart for this intersection is below:

	No-Build LOS (Delay)	Build LOS (Delay)	Delay Variance	Requirements Met?
AM Peak Hour	B (13.2)	B (13.2)	n/a	Yes
PM Peak Hour	B (19.2)	B (19.5)	n/a	Yes
SAT Peak Hour	B (14.8)	B (15.0)	n/a	Yes

n/a – With no LOS drop, the delay variance is not applicable to the compliance determination

The site-generated traffic can be accommodated at this intersection with no mitigation required.

<u>Richlieu Road (SR 2035)/Bristol Road (SR 2025)</u> – This unsignalized intersection currently operates at acceptable LOS C or better for all movements during all three peak periods. Under 2025 No-Build and Build conditions the intersection will be signalized by others. This signalization was assumed in place for the No-Build and Build analyses. Under 2025 No-Build and Build conditions with signalization the intersection will operate at acceptable overall LOS B during all three peak periods, with all individual movements operating at acceptable LOS D or better.

In accordance with PennDOT's *Highway Occupancy Permit Operations Manual (Pub 282)*, we applied the "10-Second Variance" standard to assess whether the site-generated traffic impact would require mitigation improvements at this intersection. Mitigation is not required if there is either no drop in the overall intersection LOS when comparing the Build conditions to the No-Build conditions or there is a drop but the overall intersection delay increase is less than 10 seconds. The "10-Second Variance" chart for this intersection is below:

	No-Build LOS (Delay)	Build LOS (Delay)	Delay Variance	Requirements Met?
AM Peak Hour	B (19.0)	B (17.3)	n/a	Yes
PM Peak Hour	C (24.0)	C (23.8)	n/a	Yes
SAT Peak Hour	B (17.8)	B (17.7)	n/a	Yes

n/a – With no LOS drop, the delay variance is not applicable to the compliance determination

It should be noted that the Third Avenue approach to Bristol Road will be incorporated into the intersection once it is signalized. Since peak hour traffic volumes for the Third Avenue approach were not available, we made assumptions in order to account for this approach in the analyses. This has no affect in the analysis results or the site-generated traffic impact at this intersection.

The site-generated traffic can be accommodated at this intersection with no mitigation required.

<u>Galloway Road (SR 2023)/Site Access</u> – The full access driveway proposed to intersect Galloway Road will provide one ingress lane and one egress lane with stop-sign control. The access intersection will operate with all movements at acceptable LOS A/B during all three peak periods.

<u>Richlieu Road (SR 2035)/Site Access</u> – The right-turn-in/right-turn-out access driveway proposed to intersect Richlieu Road will provide one ingress lane and one egress lane with stop-sign control. The access intersection will operate with the stop-controlled right-turn-out movement at acceptable LOS A during all three peak periods.

Queue Conditions

The 95th percentile queues for all study area intersections and site access driveways were calculated as part of the Synchro analysis. Table 3 at the end of this section provides a summary of the 95th percentile queues for the existing, No-Build, and Build conditions at all locations. It is noted that the site-generated traffic has very little effect on the maximum queue conditions at the various signalized intersections and at the site access intersections.

Included in the queue evaluation was a review of the queue conditions along Galloway Road along the site frontage. The full movement site access is located approximately 280 feet from the stop bar on the southbound Galloway Road approach to the signalized intersection with Richlieu Road. The maximum (95th percentile) queues in this segment will be less than 230' during all three peak hours. At no time will the queues obstruct safe sight distance for vehicles entering or exiting the driveway.

Sight Distance

Sight distances for exiting vehicles from the proposed site access intersections was reviewed and compared to the desirable sight distance values contained in the Pennsylvania Code, Title 67, Chapter 441 - Access To and Occupancy Of Highways By Driveways and Local Roads. The desirable sight distance values for exiting vehicles from the driveways are 540 feet looking to the left and 460 feet looking to the right. There are no sight distance restrictions in either direction; thus, the desirable sight distance criteria are met.

Table 2 Intersection Level of Service Summary

		Weekday AM Peak			w	eekday PM P	eak	Saturday Midday Peak			
Intersections	Movement	Existing	No-Build	Build	Existing	No-Build	Build	Existing	No-Build	Build	
	EB L	C (32.8)	C (32.8)	C (33.0)	D (38.3)	D (38.4)	D (38.7)	C (28.2)	C (28.2)	C (28.3)	
	EB TR	C (28.6)	C (28.6)	C (28.6)	F (88.2)	F (89.4)	F (88.3)	C (28.8)	C (28.8)	C (28.8)	
	WB L	D (38.3)	D (38.3)	D (38.4)	F (207.2)	F (207.2)	F (218.5)	D (36.2)	D (36.2)	D (36.2)	
	WB TR	C (28.4)	C (28.4)	C (28.4)	C (32.9)	C (32.9)	C (33.0)	C (25.8)	C (25.8)	C (25.9)	
Richlieu Road (SR 2035)/Galloway	NB L	B (14.6)	B (14.7)	B (14.7)	B (13.1)	B (13.1)	B (13.1)	B (12.8)	B (12.8)	B (12.8)	
Road (SR 2023)	NB T	B (11.1)	B (11.1)	B (11.1)	B (11.7)	B (11.7)	B (11.8)	B (11.0)	B (11.0)	B (11.1)	
	NB R	A (9.9)	A (9.9)	A (9.9)	A (9.8)	A (9.8)	A (9.8)	A (10.0)	A (10.0)	A (10.0)	
	SB L	B (18.3)	B (18.3)	B (18.3)	B (18.6)	B (18.6)	B (18.6)	В (18.3)	B (18.3)	B (18.3)	
	SB TR	C (23.9)	C (23.9)	C (24.0)	C (22.6)	C (22.6)	C (22.7)	C (21.4)	C (21.4)	C (21.5)	
	Overall	C (23.5)	C (23.5)	C (23.5)	D (48.2)	D (48.6)	D (48.7)	C (21.6)	C (21.6)	C (21.6)	
Galloway Road (SR	EB TR	B (12.3)	B (12.3)	B (12.4)	B (13.3)	B (13.3)	B (13.5)	B (14.6)	B (14.7)	B (14.8)	
	WB LT	A (9.7)	A (9.7)	A (9.7)	A (8.2)	A (8.2)	A (8.2)	B (10.1)	B (10.1)	B (10.1)	
2023)/Bristol Road	NB L	C (20.8)	C (20.8)	C (20.9)	D (42.4)	D (42.5)	D (42.9)	C (21.6)	C (21.6)	C (21.7)	
(SR 2025)	NB R	B (18.4)	B (18.4)	B (18.5)	C (33.5)	C (33.5)	C (33.7)	B (18.5)	B (18.5)	B (18.5)	
· · · · · · · · · · · · · · · · · · ·	Overall	B (13.1)	B (13.2)	B (13.2)	B (19.1)	B (19.2)	B (19.5)	B (14.8)	B (14.8)	B (15.0)	
	EB L	-	B (18.8)	B (15.2)	-	B (17.1)	B (17.1)	-	B (13.5)	B (13.5)	
	EB TR		C (21.0)	B (17.0)	-	C (20.1)	C (20.2)	-	B (15.4)	B (15.4)	
	WB L	B (10.9)	B (12.5)	A (9.9)	B (10.8)	B (12.4)	B (12.4)	B (10.4)	A (9.4)	A (9.4)	
Bristol Road (SR	WB TR	-	B (11.3)	A (8.6)	-	B (10.7)	B (10.6)	-	A (8.8)	A (8.8)	
2025)/Richlieu Road (SR 2035)	NB LR/L	B (11.7)	D (36.8)	D (40.4)	C (19.8)	D (35.2)	D (35.4)	B (12.8)	D (39.7)	D (39.9)	
	NB R	-	D (42.3)	D (48.3)	-	D (52.4)	D (52.1)	-	D (49.5)	D (49.2)	
	SB LR	**	D (49.6)	D (51.4)	-	D (51.3)	D (51.3)	-	D (51.3)	D (51.3)	
	Overall	A (5.2)	B (19.0)	B (17.3)	A (8.4)	C (24.0)	C (23.8)	A (5.1)	B (17.8)	B (17.7)	
	SB L	-	-	A (8.6)	-	-	A (9.4)	-	~	A (8.7)	
Galloway Road (SR 2023)/Site Access	WB LR	-	-	A (10.0)	-	-	B (11.9)	-	-	A (9.9)	
2025 ji Site 1 teess	Overall	-	-	A (0.2)	-	_	A (0.5)	-	-	A (0.5)	
Richlieu Road (SR	EB R	-	-	B (10.4)	-		A (9.6)	_	-	A (9.3)	
2035)/Site Access	Overall	-	-	A (0.0)	•	-	A (0.1)	_	-	A (0.1)	

Table 3
95th Percentile Queue Summary (in feet)

			We	ekday AM I	Peak Peak	We	ekday PM F	Peak Peak	Satur	day Midday	/ Peak
Intersections	Movement	Storage Length ⁽¹⁾	Existing	No- Build	Build	Existing	No- Build	Build	Existing	No- Build	Build
	EB L	185'	14	14	18	70	71	78	26	26	30
	EB TR	n/a	204	204	204	716	723	716	215	215	214
	WB L	225'	144	144	146	195	195	204	81	81	82
Richlieu Road (SR	WB TR	n/a	210	211	212	173	174	176	91	91	93
2035)/Galloway	NB L	210'	122	123	123	116	117	117	74	74	74
Road (SR 2023)	NB T	n/a	83	83	84	168	168	171	79	80	82
	NB R	210'	19	19	19	45	45	44	24	24	24
	SB L	75'	2	2	2	1	1	1	1	1	1
	SB TR	n/a	226	227	229	195	195	199	138	139	141
	EB TR	n/a	212	212	214	379	380	385	284	286	288
Galloway Road (SR	WB LT	n/a	127	127	127	136	137	137	146	146	146
2023)/Bristol Road (SR 2025)	NB L	n/a	125	126	128	321	322	327	163	165	167
	NB R	85'	9	9	10	24	24	33	11	11	14
	EB L	70'	-	8	7	-	7	7	-	6	6
	EB TR	n/a	-	115	102	-	156	159	-	109	111
Bristol Road (SR	WB L	155'	40	181	155	30	123	126	28	103	105
2025)/Richlieu Road	WB TR	n/a	<u>-</u>	201	169	-	145	144	-	168	167
(SR 2035)	NB LR/L	n/a/45'	30	13	14	130	24	24	50	13	14
	NB R	n/a		175	188	-	296	292	-	202	200
	SB LR	n/a	-	28	29	-	25	25	-	25	25
Galloway Road (SR	SB L	n/a	-	-	0	-	-	0	-	-	0
2023)/Site Access	WB LR	n/a	-	-	0	-	-	5	-	-	3
Richlieu Road (SR 2035)/Site Access	EB R	n/a	-	-	0	-		0	-	**	0

⁽¹⁾n/a = not applicable; no designated storage lane

CONCLUSIONS

The conduct of this updated Traffic Impact Assessment for the proposed retail center on TMP 02-046-001 at the northeast corner of Richlieu Road (SR 2035)/Galloway Road (SR 2023) in Bensalem Township, Bucks County, has led to the following conclusions:

- 1. The proposed retail center will be provided access via a full movement driveway intersecting Galloway Road and a right-turn-in/right-turn-out only driveway intersecting Richlieu Road.
- 2. The site is expected to generate approximately 21 new trips in the weekday AM peak hour, 36 new trips in the weekday PM peak hour, and 30 new trips in the Saturday midday peak hour.
- 3. The site-generated traffic can be accommodated at all study area intersections in accordance with the LOS requirements of PennDOT's *Highway Occupancy Permit Operations Manual (Pub 282)*. There are no off-site intersection mitigation improvements required.
- 4. The proposed access driveways will operate at acceptable LOS A/B during all three peak periods. The driveways will meet the desirable sight distance standards of 540 feet looking to the left and 460 feet looking to the right.
- 5. The driveways are subject to the review and approval of PennDOT through the Highway Occupancy Permit (HOP) process.
- 6. As a result of the conduct of this Traffic Impact Assessment it is demonstrated that the site-generated traffic can be safely and acceptably accommodated within the study area roadway network.

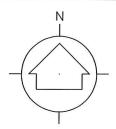




FIGURE 1 SITE LOCATION MAP

PROPOSED RETAIL CENTER (TMP 02-046-001)

N

BRISTOL ROAD (SR 2025)

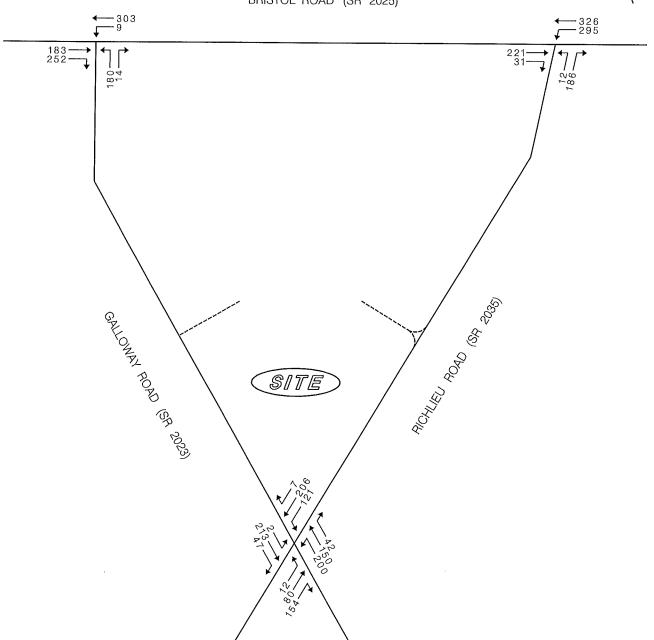


FIGURE 2 EXISTING WEEKDAY AM PEAK HOUR TRAFFIC VOLUMES

PROPOSED RETAIL CENTER (TMP 02-046-001)

22-062 MARCH 2024

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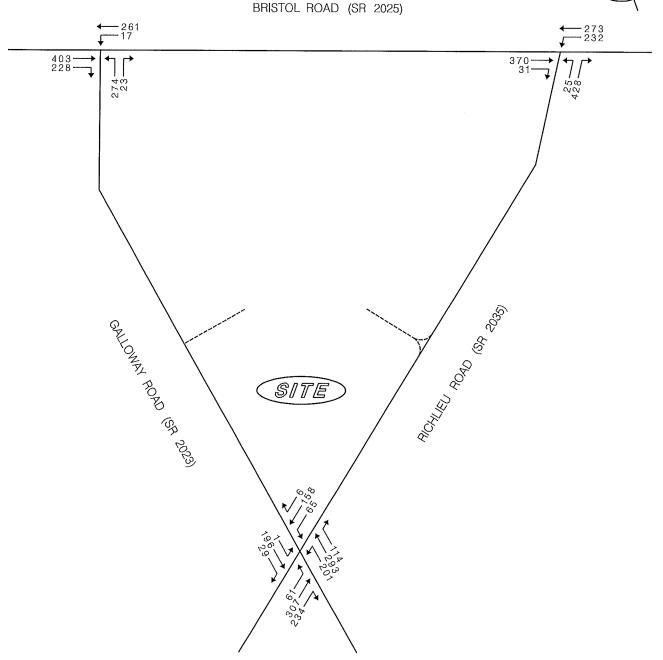


FIGURE 3

EXISTING WEEKDAY PM PEAK HOUR TRAFFIC VOLUMES

PROPOSED RETAIL CENTER (TMP 02-046-001)

22-062 MARCH 2024

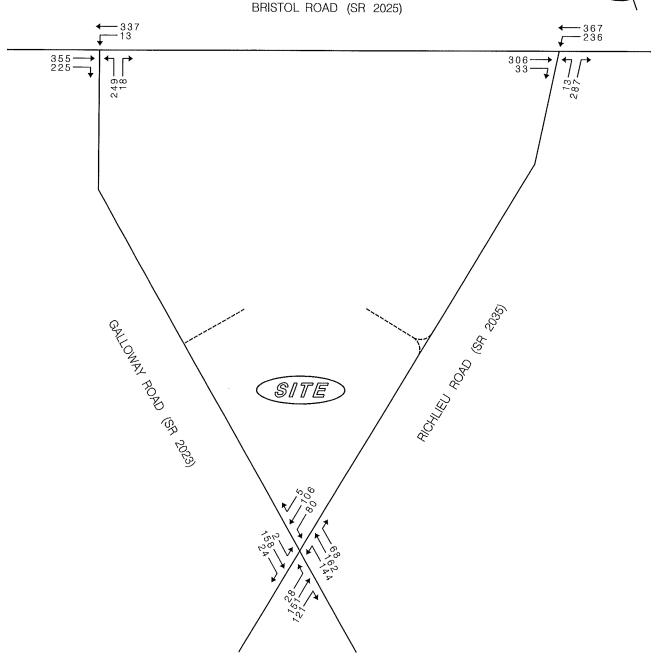


FIGURE 4

EXISTING SATURDAY MIDDAY PEAK HOUR TRAFFIC VOLUMES

PROPOSED RETAIL CENTER (TMP 02-046-001)

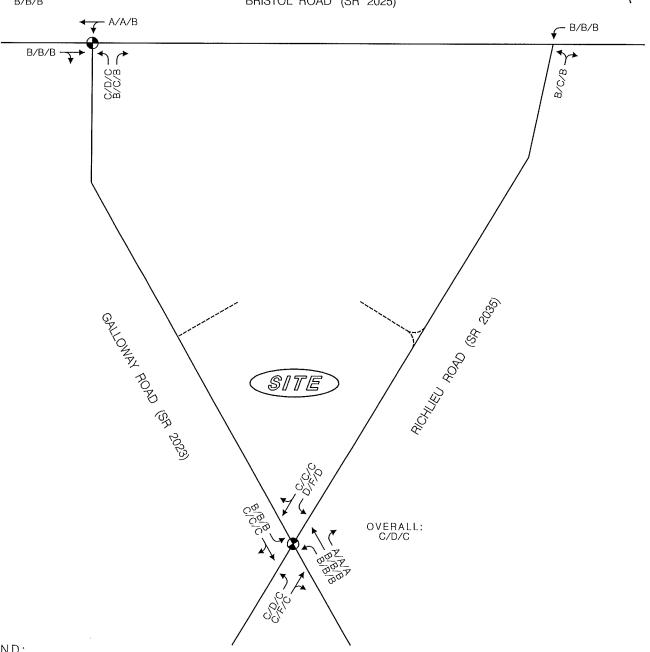
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OVERALL: B/B/B

BRISTOL ROAD (SR 2025)



LEGEND:

AM/PM/SATURDAY PEAK HOUR

TRAFFIC SIGNAL

FIGURE 5 EXISTING LEVELS OF SERVICE

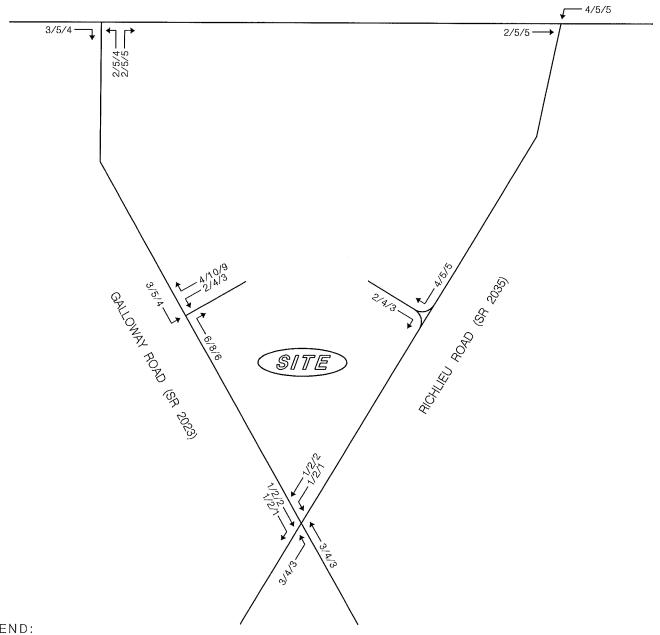
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PROPOSED RETAIL CENTER (TMP 02-046-001)

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BRISTOL ROAD (SR 2025)



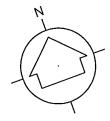
LEGEND:

AM/PM/SATURDAY PEAK HOUR

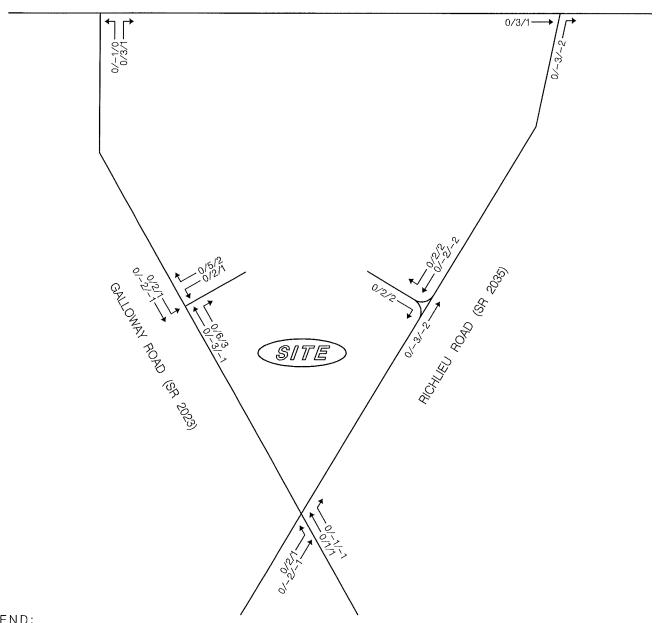
FIGURE 6A NEW SITE TRIPS

22-062 MARCH 2024

PROPOSED RETAIL CENTER (TMP 02-046-001)



BRISTOL ROAD (SR 2025)



LEGEND:

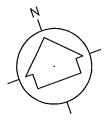
AM/PM/SATURDAY PEAK HOUR

FIGURE 6B PASS-BY SITE TRIPS

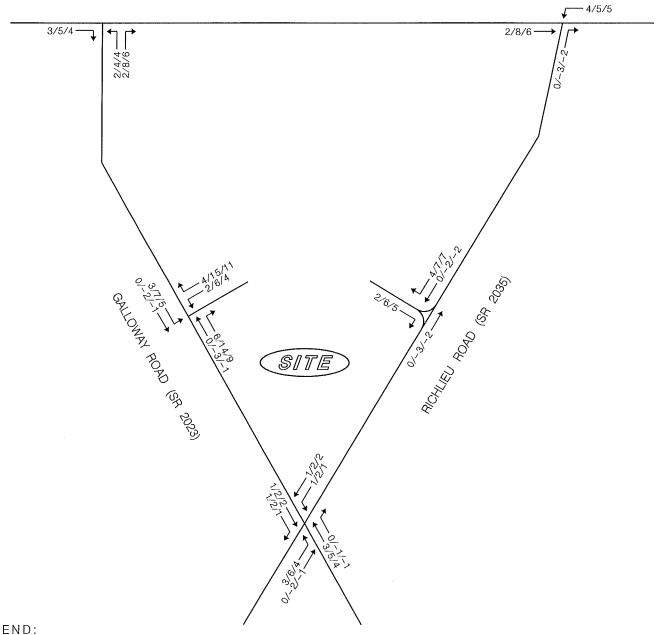
22-062 MARCH 2024

PROPOSED RETAIL CENTER (TMP 02-046-001)

Horner & Canter Associates



BRISTOL ROAD (SR 2025)



LEGEND:

AM/PM/SATURDAY PEAK HOUR

FIGURE 6C TOTAL SITE TRIPS

22-062 MARCH 2024

PROPOSED RETAIL CENTER (TMP 02-046-001)



BRISTOL ROAD (SR 2025)

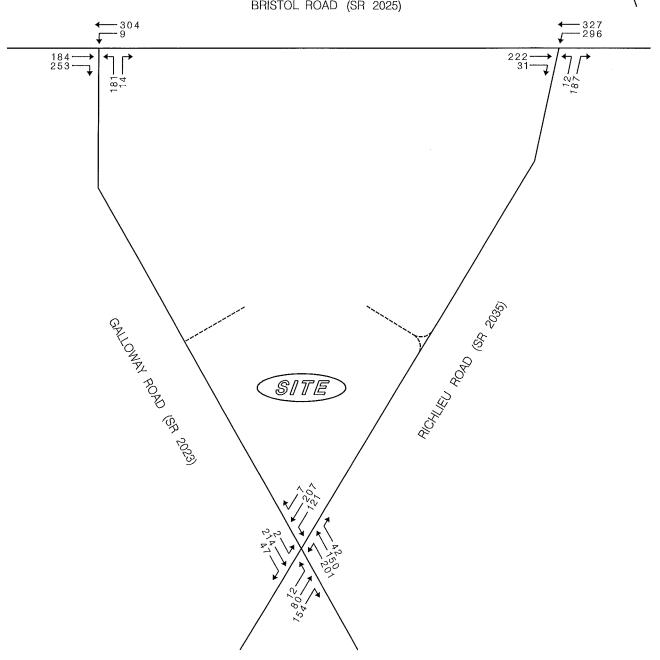


FIGURE 7

NO-BUILD WEEKDAY AM PEAK HOUR TRAFFIC VOLUMES

PROPOSED RETAIL CENTER (TMP 02-046-001)

22-062 MARCH 2024



BRISTOL ROAD (SR 2025)

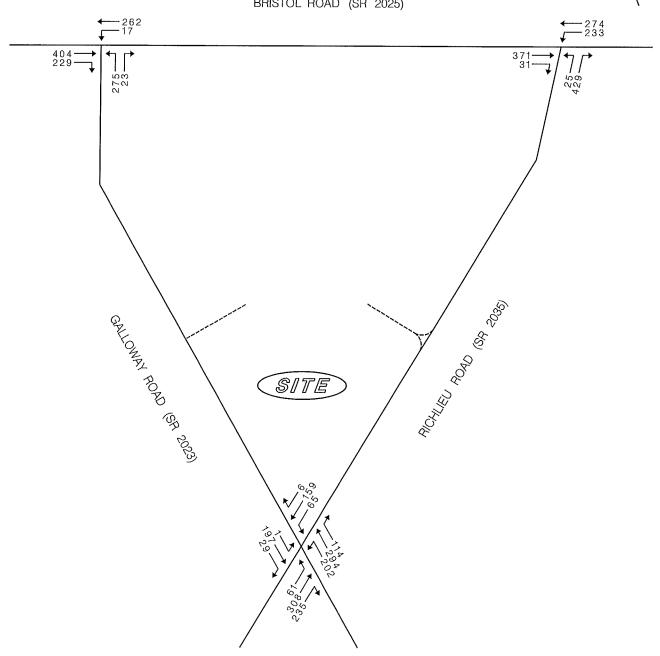
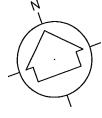


FIGURE 8

NO-BUILD WEEKDAY PM PEAK HOUR TRAFFIC VOLUMES

PROPOSED RETAIL CENTER (TMP 02-046-001)

22-062 MARCH 2024



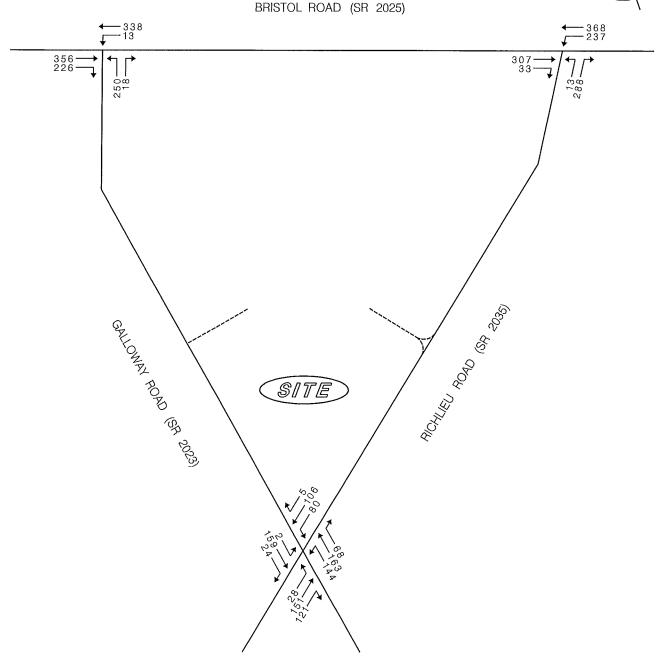
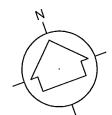


FIGURE 9

NO-BUILD SATURDAY MIDDAY PEAK HOUR TRAFFIC VOLUMES

PROPOSED RETAIL CENTER (TMP 02-046-001) 22-062 MARCH 2024



BRISTOL ROAD (SR 2025)

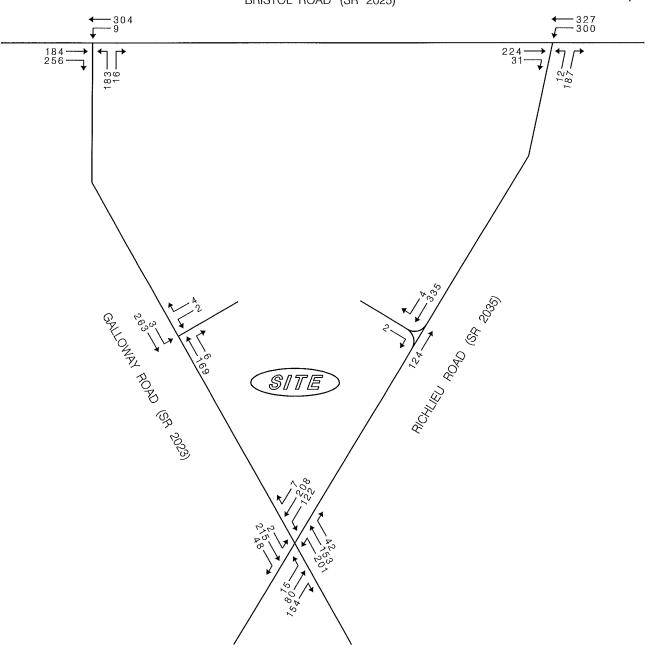


FIGURE 10 FFIC VOLUMES

BUILD WEEKDAY AM PEAK HOUR TRAFFIC VOLUMES

22-062 MARCH 2024

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PROPOSED RETAIL CENTER (TMP 02-046-001)



BRISTOL ROAD (SR 2025)

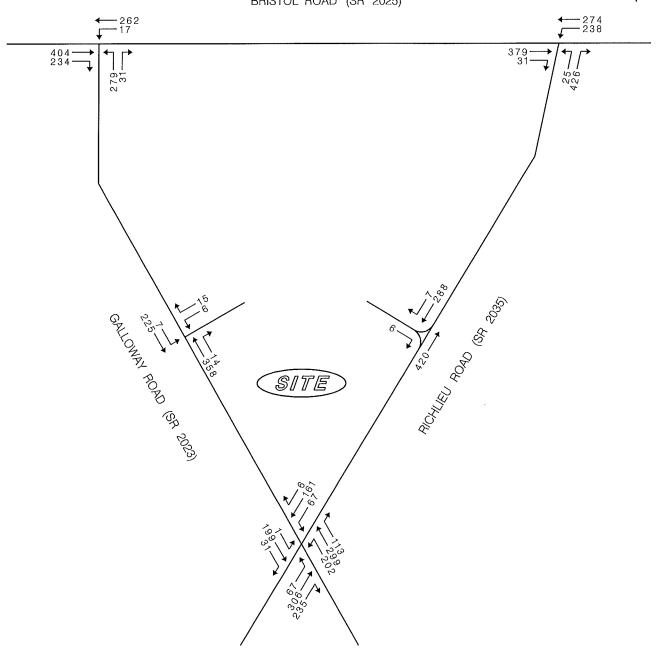


FIGURE 11

BUILD WEEKDAY PM PEAK HOUR TRAFFIC VOLUMES

PROPOSED RETAIL CENTER (TMP 02-046-001)

22-062 MARCH 2024

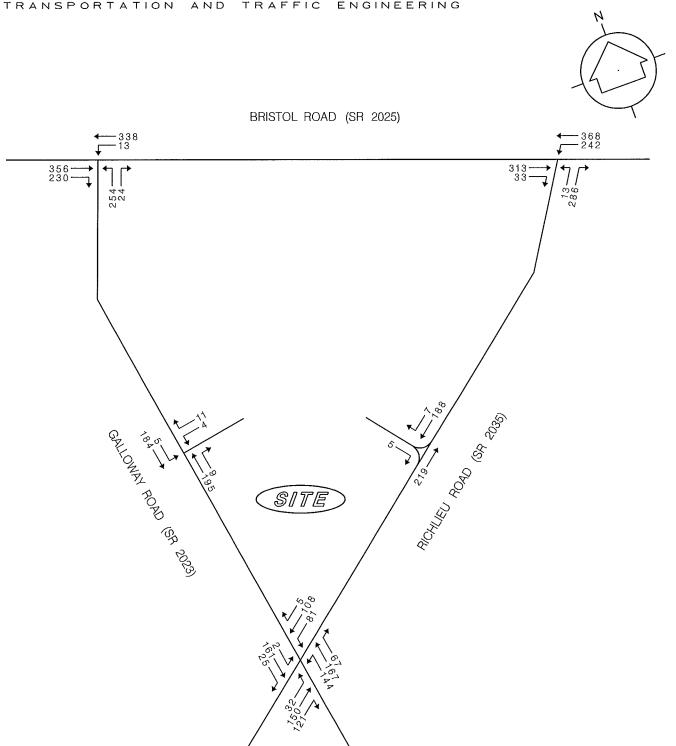
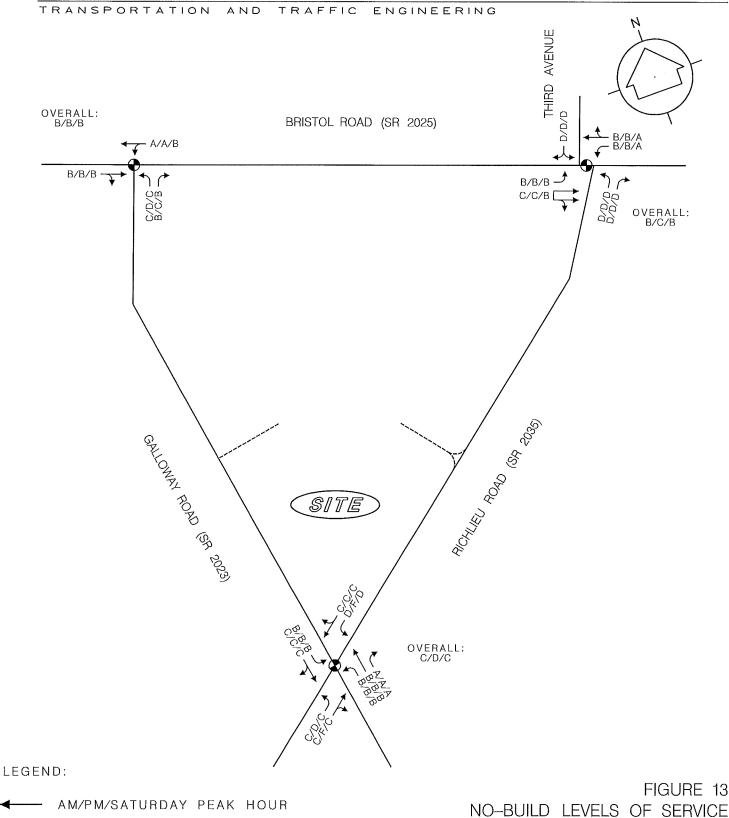


FIGURE 12 BUILD SATURDAY MIDDAY PEAK HOUR TRAFFIC VOLUMES

PROPOSED RETAIL CENTER (TMP 02-046-001)

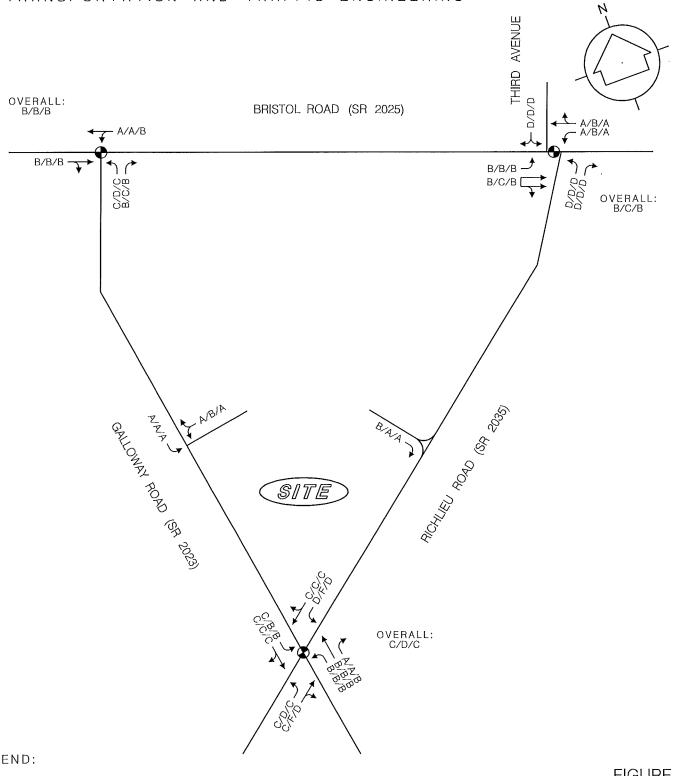
22-062 MARCH 2024



22-062 MARCH 2024 PROPOSED RETAIL CENTER (TMP 02-046-001)

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TRAFFIC SIGNAL



LEGEND:

AM/PM/SATURDAY PEAK HOUR

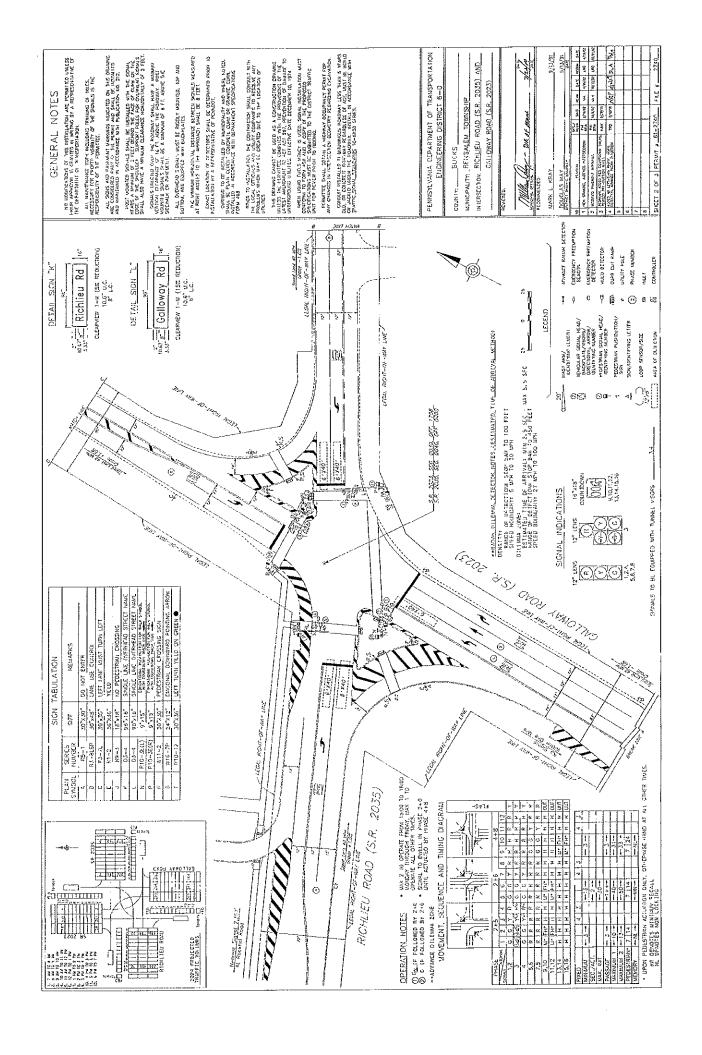
TRAFFIC SIGNAL

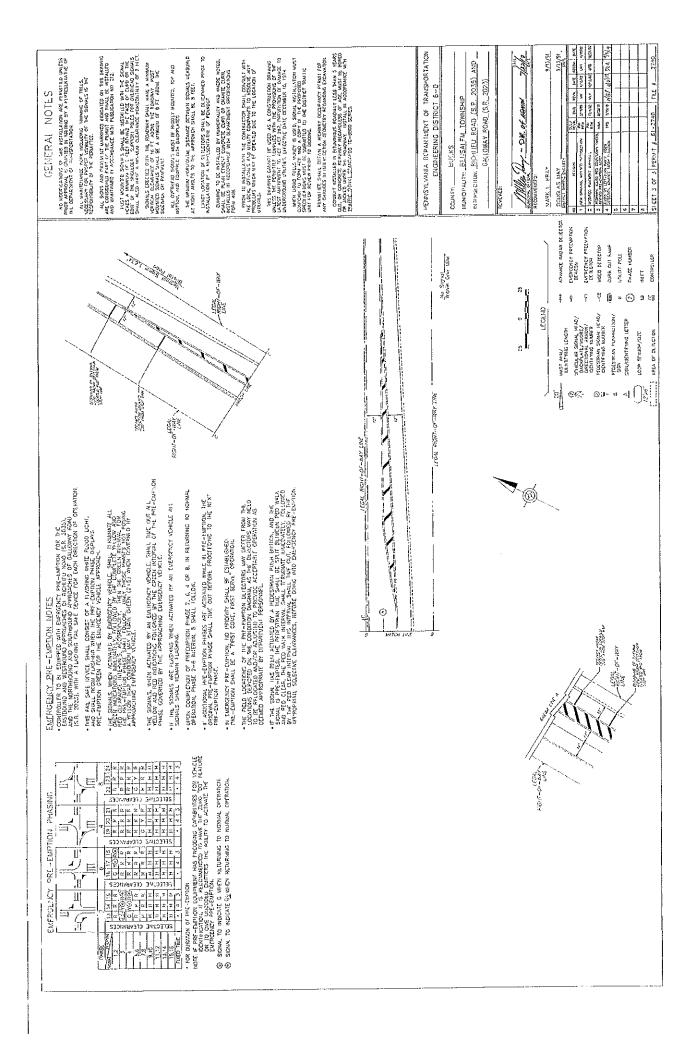
FIGURE 14 BUILD LEVELS OF SERVICE

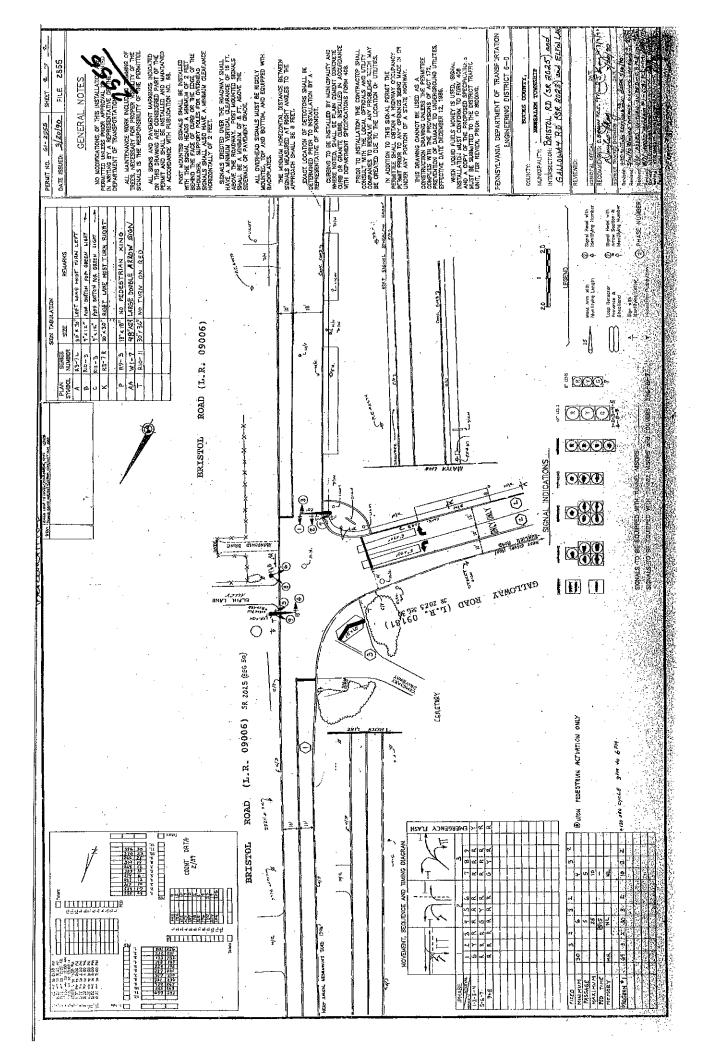
22-062 MARCH 2024 PROPOSED RETAIL CENTER (TMP 02-046-001)

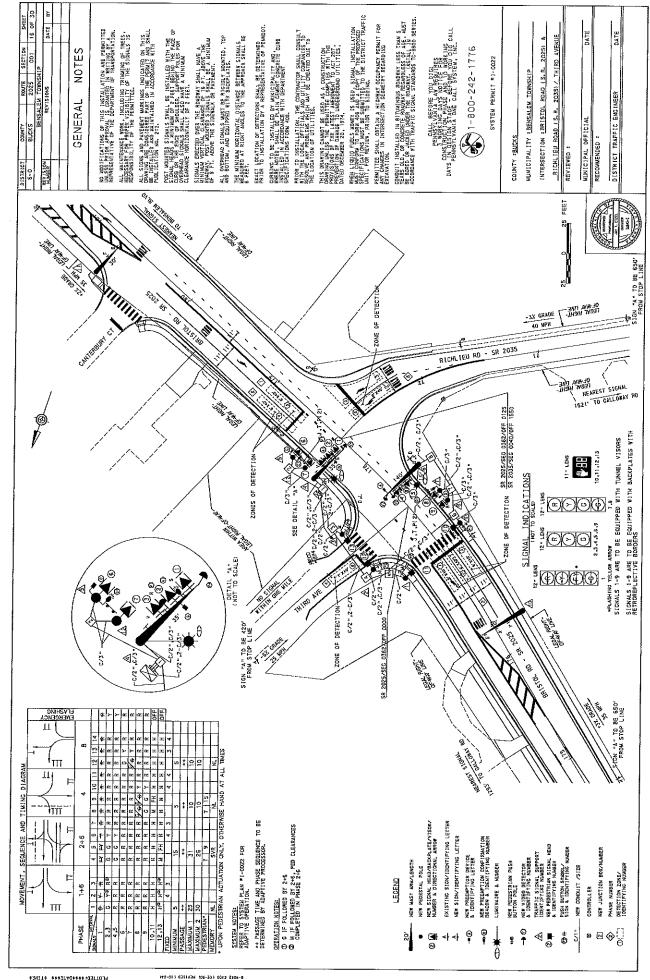
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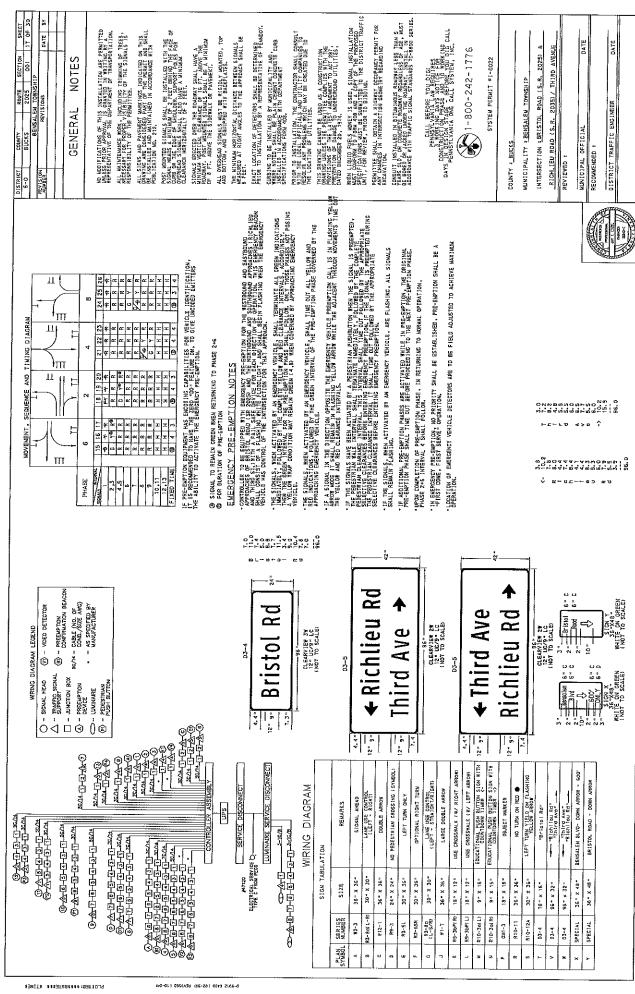
APPENDIX A Traffic Signal Plans











WHEN LIQUID FUELS WONEY IS USED, SIGNAL INSTALLATION MUST CHORNAY TO FORM 408 AND A COPY DO THE PROPOSED SPECIFICATIONS MUST BE SUBMITTED TO THE DISTRICT TRAFFIC UNIT, FOR REVIEW, PRIGR TO BIDDING. EAUT. 10711N OF DITCTORS, SHALL BE DETENINED PRIOR TO MOSTLALL BE DETENINED PRIOR TO MOSTLALL SHARES NOT SHARE TO MOSTLALL SHARE ANNICIDENT AND MOSTLALL SHARE ANNICIDENT COMPRESE TO MOSTLALL SHARE AND MOSTLALL SHARE IN ACCORDANCE WITH DETAIN SHARE SHAR ALL SIDNS AND PAYEMENT MARKINDS INDICATED ON THIS DRAWING ARE CONSIDERED PART OF THE PERMIT AND SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH PUBLICATION NO. 212. PRIOR TO INSTALLATION, THE CONTRACTOR SMALL CONSULT WITH THE LOCAL OFFICALS AND UTLL ITY COMPANIES TO PRESE, WE ANY PROBLEMS WHICH WAY BE CREATED DUE TO THE LOCATION OF POST MOUNTED STONALS SHALL BE INSTALLED WITH THE STONAL BEST MANUELS A KININGHO FOR SERVED SHE FORCE OF CHES OF THE EDGE OF MULLIPLES SUPPORT POLES FOR OVERHELD STONAL SUPPORT POLES FOR SHALL ALSO HAVE A MINIMUM CLEARANCE MOST/CONTALLY OF 2 FEET. THE MINIMUM HORIZONTAL DISTANCE BETWEEN SIGNALS MEASURED AT RIGHT ANGLES TO THE APPROACH SHALL BE B FRET. Digitally signed by David L. Adams, P.E. Davis 2021:12.09 1323:41 -05:00* SYSTEM GENERAL NOTES NO WORTHAINS OF THIS INSTITUTION ARE PRINTING BY THE SHORTH IN THE BY A PRESENTING OF THE SPECIATION. COMBUIT INSTALLED IN BITUMINOUS ROADWAY LESS THAN 5
YEARS OUT, OR CORPETER ROADWAY REARDIESSO FACE, MAIST
BE SPREED ON JAKKED INDER THE ROADWAY, INSTALL IN
ACCORDANCE WITH TRAFFIC SIGNAL STANDARDS TC-88000 SERIES, OLD LINCDLN HWY (5.R. 2037), ROCKHILL DRIVE AND BRISTOL ROAD (5.R. 2025) ARTERIALS RECOM SIGNALS ERECTED OVER THE FOADWAY SHALL HAVE A MANIMUM VERTICAL CLEARANCE OF 16 FT. ASOVE THE ROADMAY. POST WOMINTED SIGNALS SHALL BE A MINIMUM OF B FT. ABOVE THE SIDEWALK OR PAVEMENT. DATE 12/7/2023 DATE ALL OVERHELD SIGNALS MUST BE RICIDLY WOUNTED, TOP AND BOTTOM, AND EQUIPPED WITH BACKPLATES. THIS DRAWING CANNOT BE USED AS A CONSTRUCTION DRAWING USED AS A CONSTRUCTION DRAWING USED THE PROVISIONS OF TAILSTS, MEMORATED AT TO ACT 281, PREVENTION OF DAMAGE TO ACT DESCRIPTION OF DAMAGE TO ACT DAMAGE TO A PERWITTE SHALL DBTAIN A HIBHWAY OCCUPANCY PERMIT FOR CHANGES IN INTERSECTION GEOMETRY REGARDING EXCAVATION. ALL MAINTENANCE WORK, INCLUDING TRIMWING OF TREES, NECESSARY FOR PROPER VISIBLITY OF THE SIGNALS IS RESPONSIBLITY OF THE PREMITTEE. DATE RECOMMENDED; Michael J. Smith personal parameters REVW CDUNTY: BUCKS
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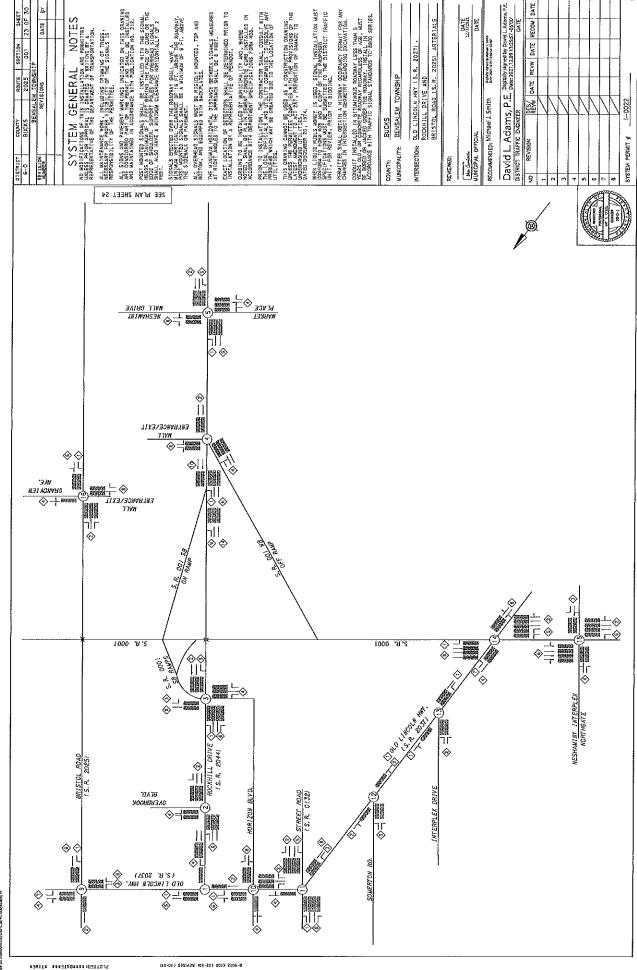
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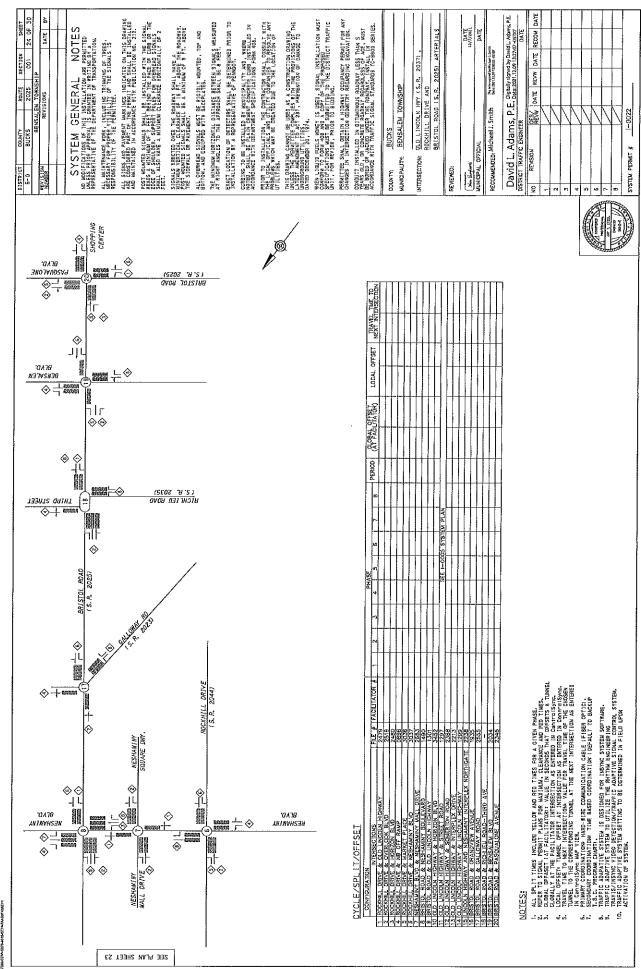
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APPENDIX B

Traffic Counts

Transportation and Traffic Engineering

4950 York Rd, Suite 2C, P.O. 301, Holicong, PA 18928-0301 105 Atsion Rd, Suite F, Medford, NJ 08055

NB/SB: Richlieu Rd. EB/WB: Galloway Rd.

Bensalem Twp./ Bucks Co./ PA

Wedsnesday/ Cloudy/ E-01/ GP

File Name: 22-062-001

Site Code : 22062001

Start Date : 3/20/2024

		Gro	ups Printe	ed- Passei	nger and	2 Axle Ve	ehicles - Br	uses and	Heavy Ve	hicles			
	Ric	hlieu Rd.			lloway Ro			chlieu Rd.			lloway Rd		
	So	uthbound			estbound		No	orthbound			astbound	`	
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	41	38	3	41	22	5	1	16	42	11	66	7	293
07:15 AM	34	40	2	40	41	11	3	9	20	1	55	6	262
07:30 AM	35	61	2	41	32	8	3	19	26	0	58	10	295
07:45 AM	36	65	2	55	42	9	2	17	46	2	65	12	353
Total	146	204	9	177	137	33	9	61	134	14	244	35	1203
08:00 AM	26	44	1	52	42	15	2	19	52	0	50	10	313
08:15 AM	24	36	2	52	34	10	5	25	30	0	40	15	273
08:30 AM	24	48	3	38	42	15	1	13	38	0	33	9	264
08:45 AM	42	62	2	43	32	17	5	13	29	0	44	18	307
Total	116	190	8	185	150	57	13	70	149	0	167	52	1157
*** BREAK ***													
04:00 PM	19	38	2	58	76	26	13	64	45	0	44	7	392
04:15 PM	21	36	0	40	72	23	15	84	52	0	65	12	420
04:30 PM	23	32	1	61	84	25	16	65	60	0	44	4	415
04:45 PM	10	41	2	46	62	33	9	75	65	0	43	5	391
Total	73	147	5	205	294	107	53	288	222	0	196	28	1618
05:00 PM	11	49	3	54	75	33	21	83	57	1	44	8	439
05:15 PM	20	32	0	51	62	28	14	63	60	1	51	3	385
05:30 PM	27	31	4	45	53	27	8	86	50	1	49	12	393
05:45 PM	30	32	1	37	61	55	9	75	52	0	54	4	410
Total	88	144	8	187	251	143	52	307	219	3	198	27	1627
Grand Total	423	685	30	754	832	340	127	726	724	17	805	142	5605
Apprch %	37.2	60.2	2.6	39.1	43.2	17.7	8.1	46	45.9	1.8	83.5	14.7	
Total %	7.5	12.2	0.5	13.5	14.8	6.1	2.3	13	12.9	0.3	14.4	2.5	
Passenger and 2 Axie Vehicles	419	680	21	738	822	336	118	724	706	17	795	134	5510
% Passenger and 2 Axie Vehicles	99.1	99.3	70	97.9	98.8	98.8	92.9	99.7	97.5	100	98.8	94.4	98.3
Buses and Heavy Vehicles	4	5	9	16	10	4	9	2	18	0	10	8	95
% Buses and Heavy Vehicles	0.9	0.7	30	2.1	1.2	1.2	7.1	0.3	2.5	0	1.2	5.6	1.7

Transportation and Traffic Engineering

4950 York Rd, Suite 2C, P.O. 301, Holicong, PA 18928-0301 105 Atsion Rd, Suite F, Medford, NJ 08055

NB/SB: Richlieu Rd. EB/WB: Galloway Rd.

Bensalem Twp./ Bucks Co./ PA

Wedsnesday/ Cloudy/ E-01/ GP

File Name: 22-062-001

Site Code : 22062001

Start Date : 3/20/2024

	ı												ı				,
			ieu Rd.				way Rd.	•			ieu Rd.			Gallo	way Rd		
			hbound		ļ		tbound				hbound				bound		
Start Time	Left			App. Total	Left			App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	int. Total
Peak Hour An							of 1										
Peak Hour for	Entire		ction Be		7:30 AI				t.								
07:30 AM	35	61	2	98	41	32	8	81	3	19	26	48	0	58	10	68	295
07:45 AM	36	65	2	103	55	42	9	106	2	17	46	65	2	65	12	79	353
MA 00:80	26	44	1	71	52	42	15	109	2	19	52	73	0	50	10	60	313
08:15 AM	24	36	2	62	52	34	10	96	5	25	30	60	0	40	15	55	273
Total Volume	121	206	7	334	200	150	42	392	12	80	154	246	2	213	47	262	1234
% App. Total	36.2	61.7	2,1		51	38.3	10.7		4.9	32.5	62,6		0.8	81.3	17.9		
PHF	.840	.792	.875	.811	.909	.893	.700	899	.600	.800	.740	.842	.250	.819	.783	.829	.874
Passenger and 2 Axle	119	204	3	326	197	146	40	383	10	80	147	237	2	211	45	258	1204
Vehicles			Ŭ	020	107	140	-10	000	10	00	147	201		211	40	250	1204
% Passenger and 2 Axle	98.3	99.0	42.9	97.6	98.5	97.3	95.2	97.7	83.3	100	95.5	96.3	100	99.1	95.7	98.5	97.6
Vehicles	2	2	4	8	3	4	2	9	2	0	7	0		2	0		
Buses and Heavy Vehicles	1.7	1.0	57.1	2.4	1.5	2.7	4.8	2.3	16.7	0	4.5	9 3.7	0	2 0.9	2 4.3	4	30
% Buses and Heavy Vehicles	1.7	1.0	37.1	4.4	1.5	2.1	4.0	2.0	10.7	U	4.0	3.7	U	0.9	4.3	1.5	2.4
Peak Hour Ana	alvsis F	rom 04	:00 PM	to 05:45	PM - P	eak 1 d	of 1										
Peak Hour for																	
04:15 PM	21	36	0	57	40	72	23	135	15	84	52	151	0	65	12	77	420
04:30 PM	23	32	1	56	61	84	25	170	16	65	60	141	ŏ	44	4	48	415
04:45 PM	10	41	2	53	46	62	33	141	9	75	65	149	ŏ	43	5	48	391
05:00 PM	11	49	3	63	54	75	33	162	21	83	57	161	1	44	8	53	439
Total Volume	65	158	6	229	201	293	114	608	61	307	234	602	1	196	29	226	1665
% App. Total	28.4	69	2.6		33.1	48.2	18.8		10.1	51	38.9	00	0.4	86.7	12.8		1000
PHF	.707	.806	.500	.909	.824	.872	.864	.894	.726	.914	.900	.935	.250	.754	.604	.734	.948
Passenger and 2 Axle	65	157	5	227													
Vehicles	65	157	ə	227	198	289	114	601	59	306	227	592	1	191	27	219	1639
% Passenger and 2 Axle	100	99.4	83.3	99.1	98.5	98.6	100	98.8	96.7	99.7	97.0	98.3	100	97.4	93.1	96.9	98.4
Vehicles				==						00.1							
Buses and Heavy Vehicles	0	1	1	2	. 3	4	0	. 7	2	_ 1	7	10	0	5	2	7	26
% Buses and Heavy Vehicles	0	0.6	16.7	0.9	1.5	1.4	0	1.2	3.3	0.3	3.0	1.7	0	2.6	6.9	3.1	1.6

Transportation and Traffic Engineering

4950 York Rd, Suite 2C, P.O. 301, Holicong, PA 18928-0301 105 Atsion Rd, Suite F, Medford, NJ 08055

NB/SB: Richlieu Rd. EB/WB: Galloway Rd.

Bensalem Twp./ Bucks Co./ PA

Saturday/ Rain/ E-14/ GD

File Name: 22-062-011

Site Code : 22062011

Start Date : 3/23/2024

		Grou	ips Print	ed- <u>Passer</u>	ger and	2 Axle Ve	hicles - B	uses and	Heavy V	ehicles			
	Ric	:hlieu Rd.	Ì		loway Rd			chlieu Rd.			loway Ro		
	So	uthbound		We	estbound		No	orthbound	i	Ea	stbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
11:00 AM	25	29	5	37	32	15	11	36	36	2	41	7	276
11:15 AM	24	22	0	32	33	20	2	27	32	0	27	3	222
11:30 AM	22	19	1	30	26	13	1	35	33	Ō	35	7	222
11:45 AM	22	31	2	31	41	19	8	42	24	1	46	6	273
Total	93	101	8	130	132	67	22	140	125	3	149	23	993
												•	
12:00 PM	17	27	1	37	37	17	3	32	35	1	49	9	265
12:15 PM	18	30	1	37	47	18	10	39	23	0	31	3	257
12:30 PM	23	18	1	39	37	14	7	38	39	0	32	6	254
12:45 PM	14	20	0	29	32	16	3	35	35	0	40	7	231
Total	72	95	3	142	153	65	23	144	132	1	152	25	1007
1						ı							
Grand Total	165	196	11	272	285	132	45	284	257	4	301	48	2000
Apprch %	44.4	52.7	3	39.5	41.4	19.2	7.7	48.5	43.9	1.1	85.3	13.6	
Total %	8.2	9.8	0.6	13.6	14.2	6.6	2.2	14.2	12.9	0.2	15.1	2.4	
Passenger and 2 Axle Vehicles	165	196	11	270	283	132	41	283	255	4	294	45	1979
% Passenger and 2 Axie Vehicles	100	100	100	99.3	99.3	100	91.1	99.6	99.2	100	97.7	93.8	98.9
Buses and Heavy Vehicles	0	0	0	2	2	0	4	1	2	0	7	3	21
% Buses and Heavy Vehicles	0	0	0	0.7	0.7	0	8.9	0.4	0.8	0	2.3	6.2	1

		Richl	ieu Rd.			Gallo	way Rd.			Richl	eu Rd.			Gallov	way Rd		
		South	bound			Wes	tbound			North	bound	i			bound		
Start Time	Left	Thru	Right	App, Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour An						eak 1 d											
Peak Hour for	Entire I	ntersec	tion Beg	gins at 1	1:45 AN	Α											
11:45 AM	22	31	2	55	31	41	19	91	8	42	24	74	1	46	6	53	273
12:00 PM	17	27	1	45	37	37	17	91 [3	32	35	70	1	49	9	59	265
12:15 PM	18	30	1	49	37	47	18	102	10	39	23	72	0	31	3	34	257
12:30 PM	23	18	1	42	39	37	14	90	7	38	39	84	0	32	6	38	254
Total Volume	80	106	5	191	144	162	68	374	28	151	121	300	2	158	24	184	1049
% App. Total	41.9	55.5	2.6		38.5	43.3	18.2		9.3	50.3	40.3	į	1.1	85.9	13		
PHF	.870	.855	.625	.868	.923	.862	.895	.917	.700	.899	.776	.893	.500	.806	.667	.780	.961
Passenger and 2 Axie	80	106	5	191	143	161	68	372	25	151	120	296	2	153	23	178	1037
Vel/clos			•		1 10	101	00	0,2	20	101	120	2.30	2	100	23	170	1037
% Passenger and 2 Axlo	100	100	100	100	99.3	99.4	100	99.5	89.3	100	99.2	98.7	100	96.8	95.8	96.7	98.9
Vehicles	0	0	0	o	4	1	n	3	3	0	4				4		
Buses and Heavy Vehicles	0	0	0	0	0.7	0.0	0	2	_	Ü	0.0	4	0	5	1	6	12
% Buses and Heavy Vehicles	U	U	U	U J	U./	0.6	0	0.5	10.7	0	0.8	1.3	0	3.2	4.2	3.3	1.1

Transportation and Traffic Engineering

4950 York Rd, Suite 2C, P.O. 301, Holicong, PA 18928-0301 105 Atsion Rd, Suite F, Medford, NJ 08055

NB: Galloway Rd. EB/WB: Bristol Rd.

Bensalem Twp./ Burlington Co./ PA

Thursday/ Clear & Cool/ E-14/ GD

File Name: 22-062-002

Site Code : 22062002 Start Date : 10/5/2023

Groups Printed- Passenger	and 2 Axle Vehicles - Buses an	d Heavy Vehicles
Bristol Rd.	Galloway Rd.	Bristol Rd.
Westbound	Northbound	Eastbound

	DIIStoi No		Galloway		DISTOLKO		
0/ (77)	Westboun		Northbour		Eastboun		
Start Time	Left	Thru	Left	Right	Thru	Right	int. Totai
07:00 AM	3	84	35	1	34	85	242
07:15 AM	3	70	48	6	40	49	216
07:30 AM	2	81	43	2	53	61	242
07:45 AM	1	68	. 54	5	56	57	241
Total	9	303	180	14	183	252	941
08:00 AM	3	. 75	48	2	44	59	231
08:15 AM	1	68	50	1	60	33	213
08:30 AM	0	57	45	6	33	32	173
08:45 AM	3	65	46	2	40	56	212
Total	7	265	189	11	177	180	829
*** BREAK ***							
04:00 PM	2	69	72	10	87	41	281
04:15 PM	5	70	67	0	80	62	284
04:30 PM	3	58	72	4	81	65	283
04:45 PM	5	77	64	6	94	58	304
Total	15	274	275	20	342	226	1152
05:00 PM	1	61	70	4	114	45	295
05:15 PM	8	65	68	9	114	60	324
05:30 PM	4	59	69	5	85	53	275
05:45 PM	1	64	83	5	92	60	305
Total	14	249	290	23	405	218	1199
Grand Total	45	1091	934	68	1107	876	4121
Apprch %	4	96	93.2	6.8	55.8	44.2	
Total %	1.1	26.5	22.7	1.7	26.9	21.3	
Passenger and 2 Axle Vehicles	41	1060	868	62	1073	822	3926
% Passenger and 2 Axle Vehicles	91.1	97.2	92.9	91.2	96.9	93.8	95.3
Buses and Heavy Vehicles	4	31	66	6	34	54	195
% Buses and Heavy Vehicles	8.9	2.8	7.1	8.8	3.1	6.2	4.7

Transportation and Traffic Engineering

4950 York Rd, Suite 2C, P.O. 301, Holicong, PA 18928-0301 105 Atsion Rd, Suite F, Medford, NJ 08055

NB: Galloway Rd. EB/WB: Bristol Rd.

Bensalem Twp./ Burlington Co./ PA

Thursday/ Clear & Cool/ E-14/ GD

File Name: 22-062-002

Site Code : 22062002 Start Date : 10/5/2023

		Bristol Rd	•		Galloway Re	d.		Bristol Rd.		
		Westbound	d		Northbound			Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr				of 1						
Peak Hour for Entire In	ntersection I	Begins at 07	7:00 AM							
07:00 AM	3	84	87	35	1	36	34	85	119	242
07:15 AM	3	70	73	48	6	54	40	49	89	216
07:30 AM	2	81	83	43	2	45	53	61	114	242
07:45 AM	1	68	69	54	5	59	56	57	113	241
Total Volume	9	303	312	180	14	194	183	252	435	941
% App. Total	2.9	97.1		92.8	7.2		42.1	57.9		
PHF	.750	.902	.897	.833	.583	.822	.817	.741	.914	.972
Passenger and 2 Axle Vehicles	7	292	299	151	12	163	171	235	406	868
% Passenger and 2 Axle Vehicles	77.8	96.4	95.8	83.9	85.7	84.0	93.4	93.3	93.3	92.2
Buses and Heavy Vehicles	2	11	13	29	2	31	12	17	29	73
% Buses and Heavy Vehicles	22.2	3.6	4.2	16.1	14.3	16.0	6.6	6.7	6.7	7.8
Peak Hour Analysis Fr	om 04:00 P	M to 05:45 I	PM - Peak 1 d	of 1						
Peak Hour for Entire In				, ,						
04:30 PM	3	58	61	72	4	76	81	65	146	283
04:45 PM	5	77	82	64	6	70	94	58	152	304
05:00 PM	1	61	62	70	å	74	114	45	159	295
05:15 PM	8	65	73	68	9	77	114	60	174	324
Total Volume	17	261	278	274	23	297	403	228	631	1206
% App. Total	6.1	93.9		92.3	7.7		63.9	36.1	00.	1200
PHF	.531	.847	.848	.951	.639	.964	.884	.877	.907	.931
Passenger and 2 Axle Vehicles	17	254	271	265	23	288	396	216	612	1171
% Passenger and 2 Axle Vehicles	100	97.3	97.5	96.7	100	97.0	98.3	94.7	97.0	97.1
Buses and Heavy Vehicles	0	7	7	9	0	9	7	12	19	35
% Buses and Heavy Vehicles	0	2.7	2.5	3.3	Ō	3.0	1.7	5.3	3.0	2.9

Transportation and Traffic Engineering

4950 York Rd, Suite 2C, P.O. 301, Holicong, PA 18928-0301 105 Atsion Rd, Suite F, Medford, NJ 08055

NB: Galloway Rd. EB/WB: Bristol Rd.

Bensalem Twp./ Bucks Co./ PA

Saturday / Clear & Cool/ E-14/ GD

File Name: 22-062-012

Site Code : 22062012 Start Date : 9/30/2023

	Bristol Rd		2 Axle Vehicles Galloway F		Bristol Ro	i.	
	Westboun	d	Northbour	nd	Eastboun	đ l	
Start Time	Left	Thru	Left	Right	Thru	Right	Int. Totaí
11:00 AM	5	88	50	0	64	46	253
11:15 AM	2	85	51	8	90	52	288
11:30 AM	4	85	53	0	68	45	255
11:45 AM	2	84	58	6	107	56	313
Total	13	342	212	14	329	199	1109
12:00 PM	2	93	58	4	90	61	308
12:15 PM	3	83	71	5	88	55	305
12:30 PM	6	77	62	3	70	53	271
12:45 PM	6	80	59	7	85	59	296
Total	17	333	250	19	333	228	1180
Grand Total	30	675	462	33	662	427	2289
Apprch %	4.3	95.7	93,3	6.7	60.8	39.2	
Total %	1.3	29.5	20.2	1.4	28.9	18.7	
Passenger and 2 Axle Vehicles	27	669	455	31	648	421	2251
% Passenger and 2 Axle Vehicles	90	99.1	98.5	93.9	97.9	98.6	98,3
Buses and Heavy Vehicles	3	. 6	7	2	14	6	38
% Buses and Heavy Vehicles	10	0.9	1.5	61	2 1	14	17

		Bristol Rd.	1		Galloway Ro			Bristol Rd.		
		<u>Westbounc</u>			Northbound	Į.		Eastbound	1	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From				of 1	•	• •		-		
Peak Hour for Entire In	itersection E	Begins at 11	:45 AM							
11:45 AM	2	84	86	58	6	64	107	56	163	313
12:00 PM	2	93	95	58	4	62	90	61	151	308
12:15 PM	3	83	86	71	5	76	88	55	143	305
12:30 PM	6	77	83	62	3	65	70	53	123	271
Total Volume	13	337	350	249	18	267	355	225	580	1197
% App. Total	3.7	96.3		93.3	6.7		61.2	38.8		
PHF	.542	.906	.921	.877	.750	.878	.829	.922	.890	.956
Passenger and 2 Axle Vehicles	10	334	344	244	17	261	348	223	571	1176
% Passenger and 2 Axia Vehicles	76.9	99.1	98.3	98.0	94.4	97.8	98.0	99.1	98.4	98.2
Buses and Heavy Vehicles	3	3	6	5	1	6	7	2	9	21
% Buses and Heavy Vehicles	23.1	0.9	1.7	2.0	5.6	2.2	2.0	0.9	1.6	1.8

Transportation and Traffic Engineering

4950 York Rd, Suite 2C, P.O. 301, Holicong, PA 18928-0301 105 Atsion Rd, Suite F, Medford, NJ 08055

NB: Richlieu Rd.

File Name: 22-062-003 AM

EB/WB: Bristol Rd.

Site Code : 22062003

Bensalem Twp./ Bucks Co./ PA

Start Date : 10/4/2023

Wednesday/ Clear & Cool/ E-14/ GD

	Groups Printed-	Passenger a	nd 2 Axle Vehicles	- Buses and	Heavy Vehicles		
	Bristol Rd		Richlieu Re		Bristol Rd		
	Westbound	d	Northboun	ıď	Eastbound	d l	
Start Time	Left	Thru	Left	Right	Thru	Right	int. Total
07:00 AM	62	78	1	22	40	7	210
07:15 AM	66	84	2	25	43	12	232
07:30 AM	77	89	1	31	63	9	270
07:45 AM	88	85	5	59	60	11	308
Total	293	336	9	137	206	39	1020
1		1		1		t	
MA 00:80	57	69	4	55	49	4	238
08:15 AM	73	83	2	41	49	7	255
08:30 AM	62	78	3	41	50	11	245
08:45 AM	105	65	5	38	40	12	265
Total	297	295	14	175	188	34	1003
Grand Total	590	631	23	242	204	70.1	2000
Approh %	48.3	51.7		312	394	73	2023
Total %			6.9	93.1	84.4	15.6	
	<u>29.2</u>	31.2	1.1	15.4	19.5	3.6	
Passenger and 2 Axle Vehicles	574	601	21	300	368	70	1934
% Passenger and 2 Axle Vehicles	97.3	95.2	91.3	96.2	93.4	95.9	95.6
Buses and Heavy Vehicles	16	30	2	12	26	3	89
% Buses and Heavy Vehicles	2.7	4.8	8.7	3.8	6.6	4.1	4.4

		Bristol Rd. <i>N</i> estbound			Richlieu Rd Northbound			Bristol Rd.		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From	om 07:00 AN	1 to 08:45 A	M - Peak 1 d	of 1					1.0	
Peak Hour for Entire In	tersection Be	egins at 07:	:30 AM							
07:30 AM	77	89	166	1	31	32	63	9	72	270
07:45 AM	88	85	173	5	59	64	60	11	71	308
08:00 AM	57	69	126	4	55	59	49	4	53	238
08:15 AM	73	83	156	2	41	43	49	7	56	255
Total Volume	295	326	621	12	186	198	221	31	252	1071
% App. Total	47.5	52.5		6.1	93.9		87.7	12.3		
PHF	.838	.916	.897	.600	.788	.773	.877	.705	.875	.869
Passenger and 2 Axle Vehicles	288	316	604	12	181	193	205	30	235	1032
% Passenger and 2 Axle Vehicles	97.6	96.9	97.3	100	97.3	97.5	92.8	96.8	93.3	96.4
Buses and Heavy Vehicles	7	10	17	0	5	5	16	1	17	39
% Buses and Heavy Vehicles	2.4	3.1	2.7	0	2.7	2.5	7.2	3.2	6.7	3.6

Transportation and Traffic Engineering

4950 York Rd, Suite 2C, P.O. 301, Holicong, PA 18928-0301 105 Atsion Rd, Suite F, Medford, NJ 08055

NB: Richlieu Rd.

File Name: 22-062-003 PM

EB/WB: Bristol Rd.

Site Code : 22062003 Start Date : 3/20/2024

Bensalem Twp./ Bucks Co./ PA

Page No : 1

Wednesday/ Clear/ E02-/ LE

Groups Printed- Passenger and 2 Axke Vehicles - Buses and Heavy Vehicles Bristol Rd. Bristol Rd. Richlieu Rd. Westbound Northbound Eastbound Start Time Left Thru Left Right Thru Right Int. Total 04:00 PM 04:15 PM 04:30 PM 04:45 PM Total 05:00 PM 05:15 PM 05:30 PM 05:45 PM Total Grand Total Apprch % 5.2 94.8 92.8 7.2 Total % 18.3 19.8 1.7 31.5 26.6 2.1 Passenger and 2 Axke Vehicles % Passenger and 2 Axke Vehicles 99.6 99.8 99.3 99.7 Buses and Heavy Vehicles % Buses and Heavy Vehicles 0.2 0.4 0.7 0.3

		Bristol Rd. Nestbound	1		Richlieu Rd Northbound	-		Bristol Rd. Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr					,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			, ippr , otal ;	inti rotar
Peak Hour for Entire Ir										
04:45 PM	52	73	125	4	109	113	105	4	109	347
05:00 PM	62	72	134	8	103	111	85	7	92	337
05:15 PM	62	69	131	5	116	121	93	9	102	354
05:30 PM	56	59	115	8	100	108	87	11	98	321
Total Volume	232	273	505	25	428	453	370	31	401	1359
% App. Total	45.9	54.1		5.5	94.5		92.3	7.7		
PHF	.935	.935	.942	.781	.922	.936	.881	.705	.920	.960
Passenger and 2 Axke Vehicles	230	273	503	25	427	452	365	31	396	1351
% Passenger and 2 Axke Vehicles	99.1	100	99.6	100	99.8	99.8	98.6	100	98.8	99.4
Buses and Heavy Vehicles	2	0	2	0	1	1]	5	0	5	8
% Buses and Heavy Vehicles	0.9	0	0.4	0	0.2	0.2	1.4	0	1.2	0.6

Transportation and Traffic Engineering

4950 York Rd, Suite 2C, P.O. 301, Holicong, PA 18928-0301 105 Atsion Rd, Suite F, Medford, NJ 08055

NB: Richlieu Rd. EB/WB: Bristol Rd.

Bensalem Twp./ Bucks Co./ PA

Saturday/ Cloudy/ E-02/ LE

File Name: 22-062-013

Site Code : 22062013

Start Date : 10/7/2023 Page No : 1

	Groups Printed- I	Passenger	and 2 Axle Vehic	cles - Buses and	d Heavy Vehicle	es	
	Bristol Rd		Richlie	u Rd.	Bristo	ol Rd.	
	Westbound	di	Northb	ound	Eastb	ound	
Start Time	Left	Thru	Left	Right	Thru	Right	Int. Total
11:00 AM	57	63	2	73	74	7	276
11:15 AM	58	83	4	48	69	6	268
11:30 AM	52	85	3	53	79	7	279
11:45 AM	54	94	0	63	70	14	295
Total	221	325	9	237	292	34	1118
12:00 PM	75	75	4	72	85	7	318
12:15 PM	47	105	4	79	79	6	320
12:30 PM	60	93	5	73	72	6	309
12:45 PM	61	66	5	69	65	8	274
Total	243	339	18	293	301	27	1221
1		,					
Grand Total	464	664	27	530	593	61	2339
Apprch %	41.1	58.9	4.8	95.2	90.7	9.3	
Total %	19.8	28.4	1.2	22.7	25.4	2.6	
Passenger and 2 Axle Vehicles	464	663	27	530	592	61	2337
% Passenger and 2 Axle Vehicles	100	99.8	100	100	99,8	100	99.9
Buses and Heavy Vehicles	0	1	0	0	1	0	2
% Buses and Heavy Vehicles	0	0.2	0	0	0.2	0	0.1

		Bristol Rd. Westbound			Richlieu Rd Northbound	-		Bristol Rd Eastbound	· i	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 11:00 A	M to 12:45 I	PM - Peak 1 d	of 1	•					
Peak Hour for Entire In	tersection E	Begins at 11	:45 AM							
11:45 AM	54	94	148	0	63	63	70	14	84	295
12:00 PM	75	75	150	4	72	76	85	7	92	318
12:15 PM	47	105	152	4	79	83	79	6	85	320
12:30 PM	60	93	153	5	73	78	72_	6	78	309
Total Volume	236	367	603	13	287	300	306	33	339	1242
% App. Total	39.1	60.9		4.3	95.7		90.3	9.7		
PHF	.787	.874	.985	.650	.908	.904	.900	.589	.921	.970
Passenger and 2 Axle Vehicles	236	367	603	13	287	300	305	33	338	1241
% Passenger and 2 Axle Vehicles	100	100	100	100	100	100	99.7	100	99.7	99.9
Buses and Heavy Vehicles	0	0	0	0	0	0	1	0	1	1
% Buses and Heavy Vehicles	0	0	0	0	0	0	0.3	0	0.3	0.1

APPENDIX C Level of Service Delay Thresholds

Level of Service Criteria

Level of Service at intersections is defined in terms of DELAY. Delay is a measure of driver discomfort, frustration, and lost travel time, thus the rating of delay from highly acceptable LOS A to unacceptable LOS F.

At traffic signals, delay is a complex measure and is dependent on a number of variables including signal progression, the cycle length, the green-time ratio, clearance times, trucks, pedestrians, parking, and signal phasing.

At unsignalized intersections, delay is dependent on the available gaps in the two-way flow of the uninterrupted traffic movement, intersection width, and queuing.

Intersection LOS

	<u>Signalized</u>	<u>Unsignalized</u>
LOS A	Less than 10.0 sec/veh	Less than 10.0 sec/veh
В	10.0 to 20.0 sec/veh	10.0 to 15.0 sec/veh
\mathbf{C}	20.0 to 35.0 sec/veh	15.0 to 25.0 sec/veh
D	35.0 to 55.0 sec/veh	25.0 to 35.0 sec/veh
${f E}$	55.0 to 80.0 sec/veh	35.0 to 50.0 sec/veh
F	Greater than 80.0 sec/veh	Greater than 50.0 sec/veh

LEVEL OF SERVICE FOR SIGNALIZED INTERSECTIONS

Level of service for signalized intersections is defined in terms of delay. Delay is a measure of driver discomfort, frustration, fuel consumption, and lost travel time.

- LEVEL-OF-SERVICE A describes operations with very low delay, i.e., less than 10.0 sec per vehicle. This occurs when progression is extremely favorable, and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.
- LEVEL-OF-SERVICE B describes operations with delay in the range of 10.0 to 20.0 sec per vehicle. This generally occurs with good progression and/or short cycle lengths. More vehicles stop than for LOS A, causing higher levels of average delay.
- LEVEL-OF-SERVICE C describes operations with delay in the range of 20.0 to 35.0 sec per vehicle. These higher delays may result from fair progression and/or longer cycle lengths. Individual cycle failures may begin to appear in this level. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.
- LEVEL-OF-SERVICE D describes operations with delay in the range of 35.0 to 55.0 sec per vehicle. At level D, the influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high v/c ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.
- LEVEL-OF-SERVICE E describes operations with delay in the range of 55.0 to 80.0 sec per vehicle. This is considered to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high v/c ratios. Individual cycle failures are frequent occurrences.
- LEVEL-OF-SERVICE F describes operations with delay in excess of 80.0 sec per vehicle. This is considered to be unacceptable to most drivers. This condition often occurs with over saturation, i.e., when arrival flow rates exceed the capacity of the intersection. It may also occur at high v/c ratios below 1.00 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing causes to such delay levels.

APPENDIX D

Existing Capacity/LOS Analysis Worksheets

		HCS	S Sig	nalize	ed Ir	nte	rsect	ion F	Resul	lts S	Sun	nmar	y				
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Capacity (c), v	CONTRACTOR OF THE PARTY OF THE			321	504			0.29	0.2	manual Control		0.58	0.61	0.61	0.44	0.44	
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manual transfer and transfer an				0.200	1.02			1.112				0.313	0.279	0.099	0.002	0.309	
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Incremental Del				38.0	41.5	 0		58.5	32.			12.8	11.1	9.6	18.6	21.5	
			100	0.3	46.7	}		148.7	0.4			0.3	0.6	0.2	0.0	1.1	
Initial Queue De				0.0	0.0			0.0	0.0			0.0	0.0	0.0	0.0	0.0	
Control Delay (PARMETER HANDSHAME			38.3	88.2	_		207.2	32.	A		13.1	11.7	9.8	18.6	22.6	
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Queue Service				1.9	12			6.5	4.7			4.5	4.5	1.6	0.1	7.3	
Cycle Queue Cl		Time (<i>g c</i>), s		6.6	12			18.6	4.7			4.5	4.5	1.6	0.1	7.3	
Green Ratio (g/				0.31	0.3	WATER STREET		0.31	0.31			0.53	0.57	0.57	0.40	0.40	
Capacity (c), v				387	54			293	572			665	1037	885	567	691	
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	and the same of th	In (95 th percentile)		25.9	214			80.8	90.6			74.4	79.2	24.3	1.4	137.5	-
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	2011/1001001010100000000000000000000000	RQ) (95 th percenti	le)	0.14	0.0			0.36	0.00			0.35	0.00	0.12	0.02	0.00	
Uniform Delay (3200			28.1	28.			35.7	25.6	<u> </u>		12.6	10.7	9.8	18.3	20.4	
Incremental Dela	The state of the s			0.1	0.0			0.5	0.2	ļ		0.2	0.3	0.1	0.0	0.9	
Initial Queue De				0.0	0.0	****		0.0	0.0			0.0	0.0	0.0	0.0	0.0	
Control Delay (1	Ž.	28.2	28.			36.2	25.8	-		12.8	11.0	10.0	18.3	21.4	
Level of Service		100		С	С			D	С	ــِـــــــــــــــــــــــــــــــــــ		В	В	A	В	C	
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DIOYOIC LOC OCC	,, C / LO	•	, and	0.80	L	<i>F</i>	`	0.62			Marie and Marie	1.10		Α	0.80	<u>' </u>	<u>A</u>

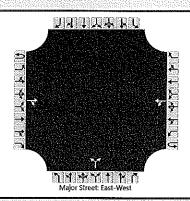
HCS Signalized Intersection Results Summary 14144141 General Information Intersection Information Horner & Canter Assoc Agency Duration, h 0.250 DHH Analyst Analysis Date Nov 10, 2023 Other Area Type Jurisdiction AM Peak Hour Bensalem Twp Time Period PHF 0.97 **Urban Street** Analysis Year Existing Analysis Period 1> 7:00 Intersection Galloway Rd/Bristol Rd File Name Galloway Rd_Bristol Rd_ea.xus **Project Description** 22-062 Proposed Retail Center Demand Information EΒ WB NB SB Approach Movement Т R Т R T R Demand (v), veh/h 183 252 9 303 180 14 Signal Information Cycle, s 0.08 Reference Phase Offset, s Reference Point 0 End Green 45.0 25.0 0.0 0.0 0.0 0.0 Uncoordinated No Simult, Gap E/W On Yellow 3.0 3.0 0.0 0.0 0.0 0.0 Force Mode Fixed Simult. Gap N/S On Red 2.0 2.0 0.0 0.0 0.0 0.0 **Timer Results EBL EBT WBL** WBT: NBL NBT SBL SBT Assigned Phase 2 6 8 Case Number 8.0 8.0 9.0 Phase Duration, s 50.0 50.0 30.0 Change Period, (Y+Rc), s 5.0 5.0 5.0 Max Allow Headway (MAH), s 0.0 0.0 3.1 Queue Clearance Time (g_s), s 9.7 Green Extension Time (g_e), s 0.0 0.0 0.3 Phase Call Probability 1.00 Max Out Probability 0.00 **Movement Group Results** EB WB NB SB Approach Movement L Т R Т R R L Assigned Movement 2 12 1 6 3 18 Adjusted Flow Rate (v), veh/h 448 322 186 14 Adjusted Saturation Flow Rate (s), veh/h/ln 1536 1420 1707 1569 Queue Service Time (g_s), s 14.0 0.0 7.2 0.6 Cycle Queue Clearance Time (g c), s 7.8 14.0 7.2 0.6 Green Ratio (g/C) 0.57 0.57 0.32 0.32 Capacity (c), veh/h 883 1028 510 461 Volume-to-Capacity Ratio (X) 0.508 0.313 0.364 0.031 Back of Queue (Q), ft/In (95 th percentile) 211.5 126.7 125.4 8.6 Back of Queue (Q), veh/ln (95 th percentile) 8.0 4.9 0.3 4.4 Queue Storage Ratio (RQ) (95 th percentile) 0.00 0.00 0.00 0.10 Uniform Delay (d 1), s/veh 10.2 8.9 20,7 18.4 Incremental Delay (d 2), s/veh 2.1 0.8 0.2 0.0 Initial Queue Delay (d3), s/veh 0.0 0.0 0.0 0.0 Control Delay (d), s/veh 12.3 9.7 20.8 18.4 Level of Service (LOS) В Α С В Approach Delay, s/veh / LOS 12.3 20.7 В 9.7 Α 0.0 C Intersection Delay, s/veh / LOS 13,1 **Multimodal Results** EB WB NB SB Pedestrian LOS Score / LOS 1.65 В 0.68 Α 1.72 В 1.72 В 1.23 Bicycle LOS Score / LOS Ά 1.02 Α F

HCS Signalized Intersection Results Summary General Information 7474141 Intersection Information Agency Horner & Canter Assoc Duration, h 0.250 Analyst DHH Analysis Date Nov 10, 2023 Area Type Other Jurisdiction Bensalem Twp Time Period PM Peak Hour PHF 0.93 Urban Street Analysis Year Existing Analysis Period 1> 7:00 Intersection Galloway Rd/Bristol Rd File Name Galloway Rd_Bristol Rd_ep.xus Project Description 22-062 Proposed Retail Center **Demand Information** ΕВ WB NB SB Approach Movement R Ţ T R L T R T R Demand (v), veh/h 403 228 17 261 274 23 Signal Information Cycle, s 120.0 Reference Phase Offset, s Reference Point 0 End Green 80.0 30.0 0.0 0.0 0.0 0.0 Uncoordinated No Simult. Gap E/W On Yellow 3.0 3.0 0.0 0.0 0.0 0.0 Force Mode Fixed Simult. Gap N/S On Red 12.0 2.0 0.0 0.0 0.0 0.0 Timer Results **EBL EBT** WBL WBT NBL NBT SBL. SBT Assigned Phase 2 6 8 Case Number 8.0 8.0 9.0 Phase Duration, s 85.0 85.0 35.0 Change Period, (Y+Rc), s 5.0 5.0 5.0 Max Allow Headway (MAH), s 0.0 0.0 3.1 Queue Clearance Time (gs), s 20.6 Green Extension Time (g_e) , s 0.0 0.0 0.4 Phase Call Probability 1.00 Max Out Probability 0.01 **Movement Group Results** EB WB NB SB Approach Movement L R Т L R T L R L **Assigned Movement** 2 12 1 6 3 18 Adjusted Flow Rate (v), veh/h 678 299 25 295 Adjusted Saturation Flow Rate (s), veh/h/ln 1645 1651 1745 1589 Queue Service Time (g_s), s 27.4 0.0 18.1 1.4 Cycle Queue Clearance Time (gc), s 27.4 8.1 18.1 1.4 Green Ratio (g/C) 0.68 0,68 0.26 0.26 Capacity (c), veh/h 1111 1146 451 410 Volume-to-Capacity Ratio (X) 0.611 0.261 0.654 0.060 Back of Queue (Q), ft/In (95 th percentile) 378.7 136.3 320.7 24.3 Back of Queue (Q), veh/ln (95 th percentile) 14.8 5.3 12.5 1.0 Queue Storage Ratio (RQ) (95 th percentile) 0.00 0.00 0.00 0.29 Uniform Delay (d 1), s/veh 10.8 7.7 39.7 33.5 Incremental Delay (d 2), s/veh 2.5 0.6 2.7 0.0 Initial Queue Delay (d 3), s/veh 0.0 0.0 0,0 0.0 Control Delay (d), s/veh 13.3 8.2 42.4 33.5 Level of Service (LOS) В Α D C Approach Delay, s/veh / LOS 13,3 8.2 В 41.7 Α D 0.0 Intersection Delay, s/veh / LOS 19.1 В **Multimodal Results** EB WB NB SB Pedestrian LOS Score / LOS 1.65 В 0.68 Α 1.74 В 1.74 В Bicycle LOS Score / LOS 1.61 В Α F 0.98

		НС	S Sigı	nalize	ed Int	ersect	tion F	Result	ts Su	mmary	,			TO 2014	
													2		
General Inform	nation								Interse	ction Infe	orma	tion		J J J.J.	141
Agency		Horner & Canter As	ssoc						Duratio	n, h	0.2	50	(
Analyst		DHH		Analy	/sis Dat	e Nov 1	0, 202	3 /	Area Ty	pe	Oth	er			
Jurisdiction		Bensalem Twp		Time	Period	SAT	Peak H	our	PHF	STATE OF THE PARTY	0.90	6	35	w∳E	**
Urban Street				Analy	/sis Yea	ır Existi	nq	1	Analysi	s Period	1>	7:00			
Intersection		Galloway Rd/Bristo	l Rd	File	//W/2017/10/10/2017///	THE PARTY OF THE P	PARTIE OF THE PARTIES	Bristo		CONTRACTOR OF THE PROPERTY OF				5 đ	
Project Descrip	otion	22-062 Proposed R		1								-,		ነ ቀተተቀን	ስ ት ስ
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Approach Move	ement	HAMA COMMITTEE C	***************************************	L	Ţ	R	L	T	R	İL	ĪΤ	r R	l L	ĪΤ	R
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Signal Informa	ation				1										
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Offset, s	0	Reference Point	End	Graci	1 45.0	25.0	0.0	0.0	0.0	0.0		1	¥ 32	3	40.55.35.
Uncoordinated	No	Simult. Gap E/W	On	Yellov		3.0	0.0	0.0	0.0		-				
Force Mode	Fixed	Simult. Gap N/S	On	Red	2.0	2.0	0.0	0.0	0.0	THE REST OF THE PROPERTY OF THE PERSON NAMED IN	-	5	6	7	\
				,											1
Timer Results				EB	L	EBT	WE	3L T	WBT	NBL		NBT	SE	IL.	SBT
Assigned Phas	e					2		:	6	1		8		-	·
Case Number	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				***************************************	8.0			8.0		1	9.0			
Phase Duration	1 6	Selffitti kirkka van kirka metada mina en kananta mempiana di historia kanan menya cera,				50.0			50,0			30.0			Ambana
Change Period	THE RESERVE THE PERSON NAMED IN COLUMN 1	o) s				5.0			5.0	1		5.0			
Max Allow Hea			and a hist			0.0			0.0			3.1			
Queue Clearan		·				0.0			0.0			11.8			
Green Extension						00			ΛΛ			***************************************			
Phase Call Pro	The second secon	(y e), S		***************************************		0.0			0.0			0.4	1		
···						ne ive di			1994, 215, 34			1.00			No. No.
Max Out Proba	ошцу									N.		0.00	II.		
Movement Gro	un Res	ulte			EB			WB		1	NB			SB	
Approach Move					I T	R		T	R		T	R		7	Тъ
Assigned Move				<u> </u>	2	12	1	6		2	<u> </u>		<u> </u>		l R
Adjusted Flow F					604	4		4		3		18			
				***************************************			***************************************	365	<u> </u>	259		19			-
		ow Rate (s), veh/h/h	n		1651			1720	-	1758		1516			
Queue Service					19.6			0.0	ļ	9.3		0.7			
Cycle Queue C		e rime (g c), s			19.6			8.9		9.3		0.7			
Green Ratio (g		, , , , , , , , , , , , , , , , , , ,			0.57			0.57		0.32		0.32			
Capacity (c), v					949			1036		571		493		-	
Volume-to-Capa		V-11-10		7.77.7.7.	0.636			0.352		0.454		0.038			
24.02.47.59.47.44.47.44.22.42.47.47.47.47.47.47.47.47.47.47.47.47.47.		/In (95 th percentile			284.1			145.7		163.3		10.5			
		eh/In (95 th percentil			11.2			5.7		6.4		0.4			
e en remanda en en comunicación de la definidad de la definida	CONTACTOR OF THE PARTY OF THE P	RQ) (95 th percent	ile)		0.00			0.00		0.00		0.12			
Uniform Delay (11.4	<u> </u>		9.1		21.4	w.m.tnau	18.5			
Incremental De	lay (d 2), s/veh			3.3			0.9		0.2		0.0			
Initial Queue De	elay (d :	3), s/veh			0.0			0.0		0.0		0.0			
Control Delay (d), s/ve	h			14.6		274	10.1		21.6		18.5			
Level of Service	(LOS)	A STATE OF THE STA			В			В		С		В			
Approach Delay	, s/veh	/Los		14.6	3	В	10.1	1	В	21.4		¹ C	0.0		
Intersection Del	ZataYAAadhaanna Aabanna a	THE RESIDENCE OF THE PROPERTY		· · · · · · · · · · · · · · · · · · ·	V/1000 11 (100 May 100	14		,,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************				В		
			N							ei	30				
												CONTRACTOR OF THE PROPERTY OF		CALL STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, S	
Multimodal Re	sults		Participal (EB			WB			NB			SB	
Multimodal Re Pedestrian LOS	Name of the Party	/ LOS		1.6		В	0.68		A	1.72	NB I	В	1.7		В

HCS Two-Way Stop-Control Report **General Information** Site Information DHH Analyst Intersection Bristol Rd/Richlieu Rd Agency/Co. Horner & Canter Assoc Jurisdiction Bensalem Twp Date Performed 11/10/2023 East/West Street **Bristol Road** Analysis Year 2023 North/South Street Richlieu Road Time Analyzed AM Peak Hour Peak Hour Factor 0.87 Intersection Orientation East-West Analysis Time Period (hrs) 0.25 **Project Description** 22-062 Proposed Retail Center

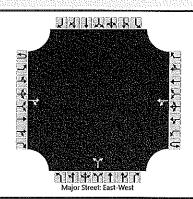
Lanes



Approach		Eastb	ound]	West	bound			North	bound			South	bound	
Movement	U	L	Ŧ	R	U	L	1	R	U	L	Т	R	υ	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0	1.11	0	11	0		0	0	0
Configuration				TR		LT					LR					
Volume (veh/h)	NEW		221	31	The state of the state of	295	326		3.5	12		186				
Percent Heavy Vehicles (%)						2				0		3				
Proportion Time Blocked	2,250	4.153	Na Ma	N.A.		- Parist	111111		N.	hukip			10.1			- AMA
Percent Grade (%)										(0					
Right Turn Channelized					18.44				5.5	H KRIT				The Party	d tele	in et
Median Type Storage				Undi	vided											
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)						4.3				7.1		6.2				
Critical Headway (sec)	1000 AV (5)					4.32	1.77			6.40		6.23				14.15
Base Follow-Up Headway (sec)						3.0				3.0		3.1				
Follow-Up Headway (sec)						3.02	10.00			3.00	NAME	3.13		34,7714		
Delay, Queue Length, and	Leve	of Se	ervice													
Flow Rate, v (veh/h)						339					228					
Capacity, c (veh/h)	Northead Spain Fr	V. 1995	7373		15/5/20	949		1, 11,		444	767			114,114,1		V. Sarak
v/c Ratio						0.36					0.30		****			
95% Queue Length, Q ₉₅ (veh)			10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1.6					1.2	Talaysta				
Control Delay (s/veh)						10.9	4.9				11.7					
Level of Service (LOS)	Noa	v. Dag			History	В	Α				В		1,194		êç K	14 N.
Approach Delay (s/veh)						7.	.8	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		11	.7					
. 1.1																

	HCS Two-Way	/ Stop-Control Report	
General Information		Site Information	
Analyst	DHH	Intersection	Bristol Rd/Richlieu Rd
Agency/Co.	Horner & Canter Assoc	Jurisdiction	Bensalem Twp
Date Performed	3/29/2024	East/West Street	Bristol Road
Analysis Year	2023	North/South Street	Richlieu Road
Time Analyzed	PM Peak Hour	Peak Hour Factor	0.96
Intersection Orientation	East-West	Analysis Time Period (hrs)	0,25
Project Description	22-062 Proposed Retail Center		

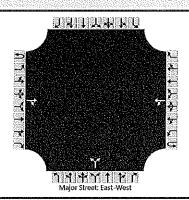
Lanes



Approach		Easth	ound			West	bound			North	bound			South	bound	
Movement	U	L.	T	R	U	L	Т	R	U	L	Т	R	U	L	T	R
Priority	1U	1	2.	3	4Ú	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	1	0		0	0	0
Configuration				TR		LT					L.R					
Volume (veh/h)	1.1.1.1.	11.	370	31		232	273			25		428				
Percent Heavy Vehicles (%)						1				0		0				1
Proportion Time Blocked		5471.			·											
Percent Grade (%)						•				()				·	<u></u>
Right Turn Channelized											" " 	• • • • • • • • • • • • • • • • • • • •				
Median Type Storage				Undi	vided											
Critical and Follow-up Hea	adwa	ys														
Base Critical Headway (sec)						4,3				7.1		6.2				
Critical Headway (sec)		Yer in				4.31	000000000000000000000000000000000000000			6.40		6.20				
Base Follow-Up Headway (sec)						3.0	A			3.0		3,1				
Follow-Up Headway (sec)			1, 11	11.74		3.01			7.44.	3.00		3.10		77.54	100	
Delay, Queue Length, and	Leve	l of Se	ervice													
Flow Rate, v (veh/h)						242					472					
Capacity, c (veh/h)	100		1,634	14:11	4. 1. 1.	860					705		198.3	44 A 1		
v/c Ratio						0.28					0.67	(************************************				***********
95% Queue Length, Q ₉₅ (veh)						1,2					5.2	4.57.3.3				
Control Delay (s/veh)						10,8	3.6				19.8					
Level of Service (LOS)		13111				В	Α		·	11 14	C				11,00	7
Approach Delay (s/veh)						6.	9			19	.8					

HCS Two-Way Stop-Control Report **General Information** Site Information DHH Analyst Intersection Bristol Rd/Richlieu Rd Agency/Co. Horner & Canter Assoc Jurisdiction Bensalem Twp Date Performed 11/10/2023 East/West Street **Bristol Road** 2023 Analysis Year North/South Street Richlieu Road Time Analyzed SAT Peak Hour Peak Hour Factor 0.97 Intersection Orientation East-West Analysis Time Period (hrs) 0.25 Project Description 22-062 Proposed Retail Center

Lanes



	Easth	oound			West	bound		ľ	North	bound			South	bound	
U	1	T	R	Ü	L	T	R	U	L	Ť	R	υ	T. F.	: T A	R
1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
0	0	1	0	0	0	1	0	111	0	11	0		0	0	0
			TR		LT					LR					
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					0				0		0				
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adwa	ys														
					4,3				7.1		6.2				
Yana in	THE SE		SAN SAN	Section 1	4.30	75.05.50	foto months and		6.40		6.20				Project.
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Leve	l of Se	ervice													
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			ŢX P.	15.51	911			71.7		768					
					0.27					0.40					
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1															ļ
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APPENDIX E Trip Generation Worksheets

Strip Retail Plaza (<40k)

(822)

Vehicle Trip Ends vs: 1000 Sq. Ft. GLA

On a: Weekday

Setting/Location: General Urban/Suburban

Number of Studies: 4

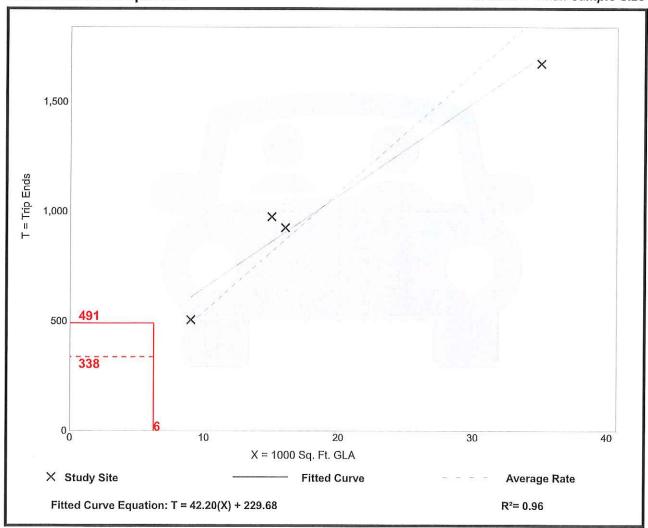
Avg. 1000 Sq. Ft. GLA: 19

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Data Plot and Equation

Caution - Small Sample Size



Strip Retail Plaza (<40k)

(822)

Vehicle Trip Ends vs: 1000 Sq. Ft. GLA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies:

Avg. 1000 Sq. Ft. GLA: 18

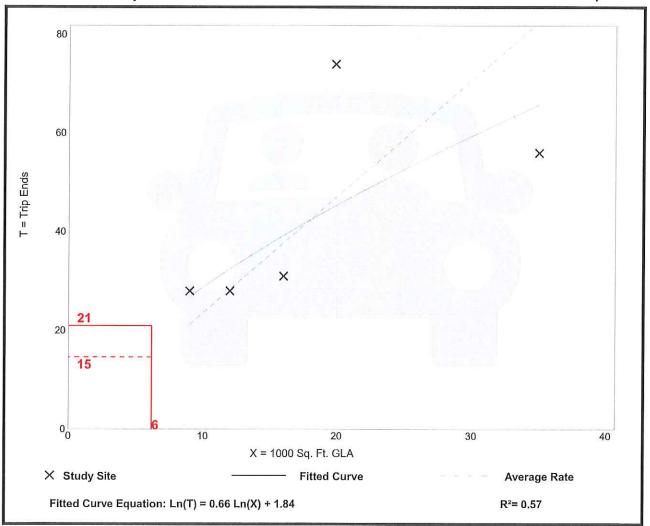
Directional Distribution: 60% entering, 40% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
2,36	1.60 - 3.73	0.94

Data Plot and Equation

Caution - Small Sample Size



Strip Retail Plaza (<40k)

(822)

Vehicle Trip Ends vs: 1000 Sq. Ft. GLA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

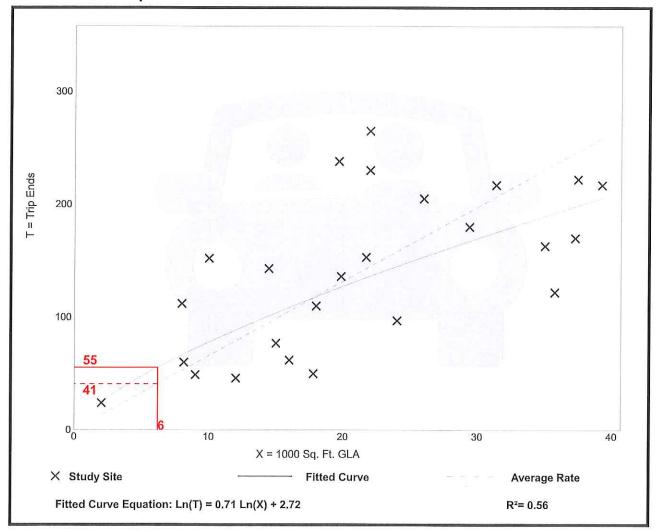
Number of Studies: 25 Avg. 1000 Sq. Ft. GLA: 21

Avg. 1000 Sq. Ft. GLA: 21
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
6.59	2.81 - 15.20	2.94

Data Plot and Equation



Strip Retail Plaza (<40k) (822)

Vehicle Trip Ends vs: 1000 Sq. Ft. GLA

On a: Saturday, Peak Hour of Generator

Setting/Location: General Urban/Suburban

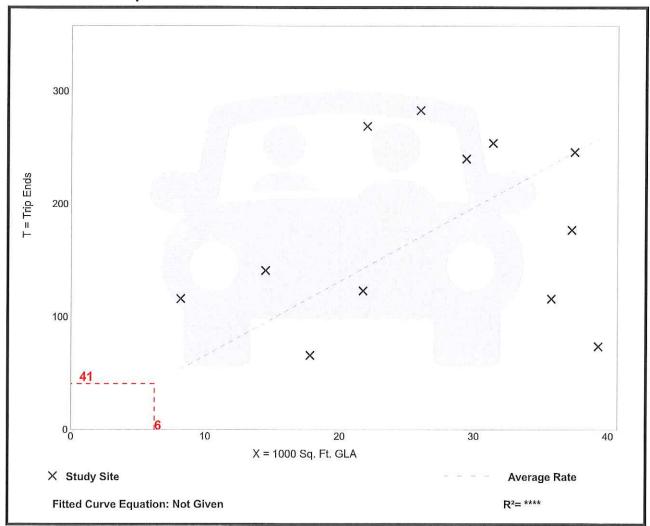
Number of Studies: 12 Avg. 1000 Sq. Ft. GLA: 27

Directional Distribution: 51% entering, 49% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
6.57	1.88 - 14.23	3.45

Data Plot and Equation



APPENDIX F

No-Build Capacity/LOS Analysis Worksheets

		HC	S Sig	nalize	ed In	ite	rsect	ion F	Resu	lts	Sur	nmar	Υ						
General Inform							Inte	ersed	ction In	1 .	11141	IIII.							
Agency Horner & Canter Assoc											ratior	***************************************	0.25			41			
Analyst		DHH	Analysis Date Mar 29, 2024						·	еа Туј		Othe		= =					
Jurisdiction		Bensalem Twp	Time Period AM Pe				VICTORIA CONTRA DE CONTRA DE CONTRA DE CONTRA DE CONTRA DE CONTRA DE CONTRA DE CONTRA DE CONTRA DE CONTRA DE C	************	PH			0.87			- -	w∳E	4-		
Urban Street				sis Ye	- Contraction of the Contraction	2025	1011-11777A	TESTOSEVADA (CONTRACTO CONTRACTO CON			Period		MERCHANTER		- 3	ė.	5		
Intersection	Zitabia	Galloway Rd/Richlieu Rd			//w//www.harana	-ai			Z400-00-00-00-00-00-00-00-00-00-00-00-00-	<u> </u>			1-1	.00		-5			
Project Descript	tion	22-062 Proposed F		File Name Galloway Rd_Richl							ru_II	a.xus				-			
r roject Descript	(IOI)	122-002 F10p0seu r	tetali G	antei				*								1	<u>ነ ቀ</u> ነተቀየነ	1 r]	
Demand Inform	nation				E	R		1	V	/R	- <u>#</u>	7	NE	2		1	SB		
Approach Move	**************************************	ACCOUNT OF THE PROPERTY OF THE	***************************************	1	1 7		R				R	L	T	da da da da mara da ma	R		T	R	
Demand (v), ve				12	8		154	121			7	201			42	2	214		
Bemana (V), vi	GINII				10	U	104	121	2	,,,	(_ 201	1 13		42] -] 214	4/	
Signal Information	tion				1		44.	T	R I		T T				1	T			
Cycle, s	102.0	Reference Phase	2			. A. F.	1	-				İ				KÛZ		A	
Offset, s	0	Reference Point	End			W.								100 Sept.		2	3	Ŋ	
Uncoordinated	No	Simult. Gap E/W	On	Greer			40.0	31.0			0.0	0.0	_	K				لک	
	Fixed	Simult. Gap L/W	On	Yellov Red	3.0		4.0 3.0	4.0 3.0	0.0		0.0	0.0		1	K	*	\$ 49.6	Y]	
. Or GO IMOGO	incu	Cimar. Cap 17/0		1100	10.0		10.0	10.0	10.0		10.0	10.0			l	<u>" </u>	7		
Timer Results	<u> </u>			EB			вт	WE) I	Wi	DT.	NB	, ,	NDT	ı	CD	. 1	CDT	
Assigned Phase				LD	Ь		4	VVE) i				<u> </u>	NBT		SB	L	SBT	
Case Number	;									8		5		2		·		6	
							3.0	\$1000 and \$1000		6.	manufacture and others	1.0	HARMAN AND AND AND AND AND AND AND AND AND A	3.0		**************************************		6.3	
Phase Duration,							8.0	***************************************		38	WILL VALUE AND A	17.0		64.0				47.0	
Change Period,		distribution of the second of					7.0			<u>7.</u>		7.0		7.0		**************************************		7.0	
Max Allow Head	NEWSCHOOL WARREN						.2	7/	4.2			4.1		0.0				0.0	
Queue Clearand	CANADATA PROPERTY	AND THE PARTY OF T		45.57.50.54.60.64.50.60.60.60.60.60.60.60.60.60.60.60.60.60		THE REAL PROPERTY.	4.8	AND AND AND ADDRESS OF THE PARTY OF THE PART		25.4		9.9	***************************************			······································		www.haranananananananananananananananananana	
Green Extensior	*****************	(ge), s	***************************************	****		-	2	······		1.	3	0.0		0.0				0.0	
Phase Call Prob						1.	.00			1.0	00	1.00)						
Max Out Probab	ility					0.	.02			0.6	36	1.00)						
Movement Grou	MANAGEMENT OF A STREET	ults			EB	3		W.	WB	ших			NB				SB	ngara manananananan	
Approach Mover				L	Т		R	L	Т		R	L	Т	R		L	Т	R	
Assigned Moven	***************************************			7	4		14	3	8		18	5	2	12	2	1	6	16	
Adjusted Flow R	NAME AND ADDRESS OF THE OWNER, WHEN PERSONS AND ADDRESS O	THE PARTY OF THE P		14	234			139	246			231	172	43	3	2	294		
Adjusted Saturat	tion Flo	w Rate (s), veh/h/li	n	999	1643	3	and the same of th	1146	1784	ŀ		1723	1795	149	7	1232	1716		
Queue Service T	ime (g	/s), S		1.1	11.7	7 L		11.3	11.2			7.4	4.7	1.3	3	0.1	12.6		
Cycle Queue Cle	earance	Time (g_c) , s		12.3	11.7	7		22.9	11.2			7.4	4.7	1.3	3	0.1	12.6		
Green Ratio (g/0	C)			0.31	0.31	1		0.31	0.31			0.53	0.57	0.5	7	0.40	0.40		
Capacity (c), ve	eh/h	Million and a second se		274	515)		299	560			564	1020	85′	1	566	690		
Volume-to-Capa	city Rat	io (<i>X</i>)		0.050	0.45	5		0.465	0.439	9		0.409	0.169			0.004	0.427	***************************************	
		(in (95 th percentile))	14	204	(}		144.2		}		122.8		19.		1.5	227.1	 	
		h/ln (95 th percentil		0.5	8.0			5.7	8.2			4.8	3.2	0.7		0.1	8.9		
	CONTRACTOR OF THE PARTY OF THE	RQ) (95 th percenti		0.08	0.00			0.64	0.00			0.58	0.00	0.0	~~~ <u>~~</u>	0.02	0.00		
Uniform Delay (,	32.8	28.0			37.2	27.9			14.2	10.7	9.8		18.3	22.0		
Incremental Dela	AUGUSTANIA STATE			0.1	0.6			1.1	0.5			0.5	0.4	0.1		0.0	1.9		
Initial Queue Del	or of the second second second second			0.0	0.0			0.0	0.0	╫		0.0	0.0	0.0		0.0	0.0		
Control Delay (TWIN THE WILLIAM TO SERVICE THE SERVICE TH			32.8	28.6			38.3	28.4	-		14.7	11.1	9.9	manually m	18.3	23.9		
Level of Service	02375444	* •		C	20.0 C			D	20.4 C	-		14.7 B	В	9.8 A		10.3 B	23.9 C		
Approach Delay, s/veh / LOS			28.9				32.0		C		12.8		<u> В</u>	_	23.9		C		
Intersection Delay, s/veh / LOS		۷٠.٤			23.	CONTRACTOR OF THE PARTY OF THE	<u>' </u>			14.0		D				U			
anteraconon Dela	y, arvei	17 EU3	- I			4	۷۵.	U		72. 12.					C				
Multimodal Res	ulfe		A		EB)i		WB		I		NB			0.00			
Pedestrian LOS				2.12				4.00		Г		4 00		************	_	4 00	SB		
Bicycle LOS Sco	ALTERNATION AND PROPERTY.	Manager and the second		0.90		E		1.93		B ^	erermeinan 🖁	1.89		В	_	1.96		В	
DIOYGIE LOG GCO	IG / LU		1	0.90		P	`	1.12		A		1.22	L	Α		0.98	l	<u>A</u>	

		HC	S Sigi	nalize	d In	ter	sect	ion F	Resu	ılts	Sur	nmar	у					
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General Inform	***		4		W. E. W		In	tersec	tion In	forma	ation		1111111	H.C				
Agency		Horner & Canter As	SSOC	Duratio								ı, h	0.2	50		41		
Analyst	······································	DHH								еа Туј								
Jurisdiction	***************************************	Bensalem Twp	salem Twp					eak Ho		PH			0.9	ner 15		vi 🛊 E		
Urban Street	~~~~~									Designation of the last of the	Period	- 5						
Intersection		Galloway Rd/Richli	eu Rd	File N	***************************************	encommunity but		way Rd	A1711	-				7:00	, co co o specie de co o se se co		<u>ጎ</u> ተሰ	
Project Descrip	tion	22-062 Proposed F										F 11 141 4	••••••			- 1	1311 1 41 Y	
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Demand Inform	nation				El	В			V	VΒ			SB					
Approach Move	ement	2 10 10 10 10 10 10 10 10 10 10 10 10 10		L	Т	-	R	L		T	R	l L		T	R	L	ĬΤ	R
Demand (v), v	eh/h			61	30)8	235	65	1.	59	6	202	2	94	114	1	197	29
		10																
Signal Informa	tion						4											(a. 15. 56. 1
Cycle, s	117.0	Reference Phase	2		R	17	R#	n 🚝 🖠	ë"		1					Y		-4
Offset, s	0	Reference Point	End	Greer			50.0	33.0	0.	0	0.0	0.0					3	K
Uncoordinated	No	Simult. Gap E/W	On	Yellov			4.0	4.0	0.		0.0	0.0		Τ.)	37. (3) (3)	
Force Mode	Fixed	Simult. Gap N/S	On	Red	3.0		3.0	3.0	0.	0	0.0	0.0			6	6	7	G 20000
																-4		
Timer Results			1.30,000,10	EB	L L	E	3T	WB	BL	V	VBT	NB	L	NE	3 T	SB	L	SBT
Assigned Phase	е					4	1				8	5		2				6
Case Number				1.71.		6.	0			6	3.0	1.0		3,0	0			6.3
Phase Duration	, s					40	.0				0.0	20.0).0		77.0			57.0
Change Period,	(Y+R a	c), s				7.	0				7.0 7) 7		7.0		7.0	
Max Allow Head	dway (A	<i>IIAH</i>), s				4.	2		4.2		.2	4.1		0.0	0.0		0	
Queue Clearan	ce Time	(gs), s				36	.5			36	6.5	9.5						
Green Extension Time (g_{θ}), s				71.27.00.00.00.00	0.	0			0	0.0	0.2		0.0	0	***************************************		0.0	
Phase Call Prob	oability			N 1 1 4 1		1.0	00			1.	.00	1.00)					
Max Out Probal	bility					1.0	00			1.	.00	1.00)					
Movement Gro		ults		EB			WB			3		NB					SB	
Approach Move				L	T		R	L	Т		R	L	T		R	L	Т	R
Assigned Move	ment			7	4		14	3	8		18	5	2		12	1	6	16
Adjusted Flow F	and the second s	·		64	519			68	174	1		213	309		94	1	233	
Adjusted Satura	tion Flo	w Rate (s), veh/h/l	n	1201	1734	4		897	181	1		1723	182	3 1	557	1087	1719	
Queue Service	Time (g	7 s), S		5.2	34.0			0.0	8.8			7.0	9.4	2	2.9	0.1	10.3	
Cycle Queue Cl	earance	e Time (<i>g ₀</i>), s		14.0	34.0)		34.0	8.8			7.0	9.4	. 2	2.9	0.1	10.3	
Green Ratio (g	/C)			0.29	0.29	3		0.29	0.29	9		0.58	0.6	1 0	.61	0.44	0.44	
Capacity (c), v	eh/h			320	504			62	526	3		675	110	3 9	45	535	749	
Volume-to-Capa	acity Rat	tio (X)		0.200	1.030	0		1.112	0.33	0		0.315	0.28	0 0.	099	0.002	0.311	
CONTRACTOR OF THE PROPERTY OF	PARTY CONTROL OF THE PARTY OF T	/In (95 th percentile		70.6	723.	3		195.1	174.	2		117	168.	3 4	4.8	0.8	195.4	
Back of Queue	(Q), ve	h/ln (95 th percenti	le)	2.8	28.7	7	Î	7.8	6.9			4.6	6.7	1	1.8	0.0	7.6	
	THE TAXABLE PARTY OF THE PARTY	RQ) (95 th percent	THE RESERVE THE PARTY OF THE PA	0.38	0.00)	Ì	0.87	0.00)		0.56	0.00) 0	.21	0.01	0.00	
Uniform Delay (d 1), s/	veh		38.1	41.5	5		58.5	32.6	3		12.8	11.1		9.6	18.6	21.5	
Incremental Delay (d 2), s/veh		0.3	47.9			148.7	0.4			0.3	0.6).2	0.0	1.1			
Initial Queue Delay (d 3), s/veh		0.0	0.0			0.0	0.0	()		0.0	0.0		0.0	0.0	0.0	***************************************		
Control Delay (d), s/veh			38.4	89.4			207.2	32.9			13.1	11.7	tictatus (Actionum	9.8	18.6	22.6		
Level of Service (LOS)			D	F	1		F	С			В	В		A	В	C	***************************************	
Approach Delay, s/veh / LOS			83.8		F		82.2	6	! F	=	11.9		B		22.6		C	
Intersection Dela	THE CONTRACT OF STREET					•	48			-		, , , , 0)		
22,51,201	,, =, 10			70.0														
Multimodal Res	sults				EB		WB				ult.	NB		SB				
Pedestrian LOS		LOS		2.16	Maria Maria	В		1.94	and the same of th	E	3	1.89		ив В		1.99		В
Bicycle LOS Sco				1.45		·A	&	0.89			4	1.50	*****	В		0.87		A
510,010 200 00010 / 200				£		B				B		I						

		HC	S Sig	nalize	d Ir	nte	rsect	ion F	lesi	ılts	Sur	nmar	y							
		1.00																		
General Inform	nation				·			**************************************		Int	tersec	tion In	format	ion						
Agency		Horner & Canter A	ssoc								uration	ı, h	0.25	0						
Analyst		DHH	90000000000000000000000000000000000000	Analy	sis D	ate	Mar 2	9, 2024	1		еа Ту	эе	Othe	er						
Jurisdiction		Bensalem Twp		Time Period SAT F				eak Ho	our	PH	-IF		0.96			γı∳́π	;=			
Urban Street			Analy	sis Y	ear	2025	No-Bui	d	An	nalysis	Period	1> 7	:00	3						
Intersection Galloway Rd/Richlieu Rd					lame		Gallov	vay Rd	_Rich	ilieu	Rd_n	s.xus				517				
Project Descrip	tion	22-062 Proposed F	Retail Co	nter											ोत्ती (क्षेत्रकार) -					
<u> </u>				1	_			1				- i								
Demand Inforr			Whitehold Commence	.		В				VB_			NE			SB I =				
Approach Move				L		T	R	L		T	R	L	T	R		T	R			
Demand (v), v	en/n			28	1 1:	51	121	80] 1	06	5	144	163	3 68	2	159	24			
Signal Informa	ition							1	e l		1				1					
Cycle, s	102.0	Reference Phase	2				i .		S		1	•			KD2		А			
Offset, s	0	Reference Point	End			w								1	2	3	V			
Uncoordinated	No	Simult. Gap E/W	On	Greer			40.0	31.0	0.		0.0	0.0		K .			A			
Force Mode	Fixed	Simult. Gap N/S	On	Yellow Red	3.0		4.0 3.0	3.0	0. 0.		0.0	0.0	turium titla skul) [×	+ 2	7	¥			
T Gree Mode	rixed	Ciman, Cap (ve	Oil	Inca	0.0	,	10.0	10.0	10.	<u> </u>	10.0	10.0				•				
Timer Results				EB	ı	F	вт	WB	. 1	۱۸	V BT	NB		NBT	SB	ı I	SBT			
Assigned Phase	8				_		4	717	-		8	5		2		-	6			
Case Number						***************************************	3.0				3.0	1.0		3.0			6.3			
Phase Duration	. S	NAME OF THE OWNER OWNER OF THE OWNER	fa'tau sinthús same			TAXABLE VIII	8.0		<u> </u>	38.0		17.0	***********	64.0			47.0			
Change Period,		:) s				/y=/A-1-1-1-1-7-	7.0				'.O	7.0		7.0			7.0			
Max Allow Head							1.2				.2 4.1						0.0			
Queue Clearan						van verande zoelenn	4.6				1.1	7.0		0.0			0.0			
Green Extensio	4://\arts=81/Arts#_#*//15==4A	TEAM OF THE PARTY				I MANAGEMAN	.6	,	1.		Verson/Musea/IIII/III	0.1	THE RESIDENCE OF THE PARTY OF T				0.0			
Phase Call Prob			. 11 . 11			THE RESERVE THE PARTY OF	.00			1.00		1.00		0.0	1		0.0			
Max Out Probal							.01				.11	1.00								
	,						- 0		,						И					
Movement Gro	up Res	ults	1000	EB				WB					NB			SB				
Approach Move	ment			L	Т		R	L	Т		R	L	Т	R	L	T	R			
Assigned Move	ment			7	4		14	3	8		18	5	2	12	1	6	16			
Adjusted Flow F	Rate(v), veh/h		29	25	7		83	116	3		150	170	55	2	185				
Adjusted Satura	ition Flo	w Rate (s), veh/h/l	n	1186	174	4		1140	182	2		1736	1823	1557	1235	1719				
Queue Service	Time (g	1s), S		1.9	12.	1		6.5	4.7	<u>' </u>		4.5	4.5	1.6	0.1	7.4				
Cycle Queue Cl	earance	Time (g_c) , s		6.6	12.	1		18.6	4.7			4.5	4.5	1.6	0.1	7.4				
Green Ratio (g/	/C)	W.		0.31	0.3	1		0.31	0.3	1		0.53	0.57	0.57	0.40	0.40				
Capacity (c), v	eh/h			387	547	7		293	572	2		664	1037	885	567	691				
Volume-to-Capa				0.075	0.47	70		0.285	0.20	2		0.226	0.164	0.062	0.004	0.268				
WHEN THE PROPERTY OF THE PROPE	TO A TOTAL OF THE SAME OF THE SAME	/In (95 th percentile		25.9	214			80.8	90.6			74.4	79.7	24.3	1.4	138.7				
Back of Queue ((Q), ve	h/ln (95 th percenti	le)	1.0	8.6			3.2	3.6			3.0	3.2	1.0	0.1	5.4				
THE RESERVE AND ADDRESS OF THE PARTY OF THE		RQ) (95 th percent	ile)	0.14	0.0			0.36	0.00			0.35	0.00	0.12	0.02	0.00				
	Jniform Delay (d ₁), s/veh		28.1	28.	2		35.7	25.6	3		12.6	10.7	9.8	18.3	20.4					
	cremental Delay (d 2), s/veh		0.1	0.6	3		0.5	0.2			0.2	0.3	0.1	0.0	1.0					
Initial Queue De				0.0	0.0			0.0	0.0		dictorial discount above	0.0	0.0	0,0	0.0	0.0				
Control Delay (d), s/veh		28.2	28.	8		36.2	25.8	3		12.8	11.0	10.0	18.3	21.4						
Level of Service (LOS)			С	Ç			D	С			В	В	Α	В	С					
Approach Delay, s/veh / LOS			28.7	' [(C	30.2	2	C		11.6		В	21.4	ı I	С				
Intersection Dela	ay, s/vel	h/LOS					21.	.6				000000000000000000000000000000000000000			С					
						-		10												
Multimodal Res					EE	ndomestra 244		WB				·	IND	SB						
Pedestrian LOS	own with the commence			2.14			3	1.93		Е	***************************************		1.89 B			1.95 B				
Bicycle LOS Score / LOS				0.96		/	A	0.82		Α	Α	1.11		Α	0.80)	_A			

Н	CS Sign	alize	d Inte	rsecti	on R	esult	s Sur	nmary	!				
General Information	Water Water American processor			0.00-0.000-0.000200.00			annu verreier were eine ver	tion Inf	ormati	on		4.1	1144 L
Agency Horner & Canter	Assoc						Duration		0.25				
Analyst DHH		Analys	is Date	Nov 10	0, 2023		rea Ty	Эе	Othe	r	_ <u> </u>		
Jurisdiction Bensalem Twp		Time F	Period	AM Pe	ak Hou	ır F	PHF		0.97		<u>₹</u> ₹	₩₽E	7
Urban Street		Analys	is Year				Analysis	and an internal contract of the contract of	1> 7:	:00			
Intersection Galloway Rd/Bri	stol Rd	File N	ame	Gallow	ay Rd	_Bristol	Rd_na.	xus				ጎ ሰ	
Project Description 22-062 Propose	d Retail Ce	nter								1.1111.12	Th.	(4)144	HA
		,						,					
Demand Information			EB	gasasatsi T	<u> </u>	WB			NB	AND DESCRIPTION OF THE PERSON		SB	
Approach Movement		L,	T	R	L	T	R	L	T	R	L	T	R
Demand (v), veh/h			184	253	9	304		181		14	1		
				1									
Signal Information			<u> </u>							8 4 1 19		₹	
Cycle, s 80.0 Reference Phas			 *	157	7						℧ 』) 3	
Offset, s 0 Reference Point		Green	45.0	25.0	0.0	0.0	0.0	0.0		6 8 6 2		3 (2)	
Uncoordinated No Simult. Gap E/V		Yellow		3.0	0.0	0.0	0.0	0.0					V
Force Mode Fixed Simult. Gap N/S	On	Red	2.0	2.0	0.0	0.0	0.0	0.0		5	6	7	
											u .		
Timer Results		EBl		EBT	WB	L	WBT	NBL		NBT	SBL		SBT
Assigned Phase				2			6			8			
Case Number		***************************************		8.0			8.0			9.0			and the second
Phase Duration, s				50.0			50.0			30.0			name to make the
Change Period, (Y+Rc), s				5.0			5.0			5.0			
Max Allow Headway (<i>MAH</i>), s				0.0			0.0			3.1			
Queue Clearance Time (g s), s					MAL.					9.8			wallen of malend
Green Extension Time (g e), s				0.0			0.0			0.3			
Phase Call Probability	1 13,444	• .								1.00			
Max Out Probability										0.00			
Movement Group Results		***************************************	EB			WB			NB			SB	·
Approach Movement		L	Τ	R	L	T	R	L.	Т	R	L	Τ	R
Assigned Movement			2	12	1	6		3	NAMA.	18			
Adjusted Flow Rate (v), veh/h			451			323		187	_ milk it is some on the	14			
Adjusted Saturation Flow Rate (s), veh	/h/ln	': ''	1536		· · · · · · · · · · · · · · · · · · ·	1707		1569		1420			
Queue Service Time (g $_{\rm S}$), $_{\rm S}$			14.1			0.0		7.3		0.6		**************************************	
Cycle Queue Clearance Time ($g \epsilon$), s		78.50 3.50	14.1			7.8		7.3		0.6			- Accommon and a contract of the contract of t
Green Ratio (g/C)			0.57			0.57		0.32		0.32			
Capacity (c), veh/h		144 144	883			1028		510	7.74	461			
Volume-to-Capacity Ratio (X)			0.510			0.314		0.366		0.031			
Back of Queue (Q), ft/In (95 th percen	tile)		212.3	ti Ali ligi		127.2		126.1		8.6		The state	3 11 2
Back of Queue (Q), veh/ln (95 th perce			8.0	Í		4.9		4.5		0.3	ĺ		
Queue Storage Ratio (RQ) (95 th perc			0.00			0.00		0.00	13.5	0.10			
Uniform Delay (d 1), s/veh			10.2			8.9		20.7		18.4			
Incremental Delay (d 2), s/veh			2.1			0.8		0.2	in View	0.0			
Initial Queue Delay (d 3), s/veh			0.0	ĺ		0.0		0.0		0.0		*****	1
Control Delay (d), s/veh	TANK TENNESSEE		12.3			9.7		20.8		18.4		******************	
Level of Service (LOS)			В.			Α		C		В			1
Approach Delay, s/veh / LOS		12.3		В	9.7		Α	20.7		c l	0.0		
Intersection Delay, s/veh / LOS		, –. ∨		13.				1			1 — 0.0 В	Щ	econtraction of security of
morocolon boldy, arvert 100	N			10.	-			1					
	li II		EB			WB			NB			SB	
Multimodal Results	T	and the second of the second											
Multimodal Results Pedestrian LOS Score / LOS		1.65		В	0.68		Α	1.72		В	1.72		В

		HC	S Sigr	nalize	d Int	ersec	tion F	Resul	ts Sui	nmary	/	9.00			
													10		
General Inform	nation						· · · · · · · · · · · · · · · · · · ·		Interse	ction Inf	orma	tion		1414	1 4 1
Agency		Horner & Canter As	ssoc					-	Duratio	ı, h	0.2	50			
Analyst		DHH		Analy	sis Dat	e Nov	10, 202	3 .	Area Ty	ре	Oth	er			
Jurisdiction		Bensalem Twp		Time	Period	РМЕ	eak Ho	ur	PHF		0.93	3		57	e 17 -
Urban Street	iistuumis muunin susaad		ON CONTRACTOR OF THE PROPERTY	Analy	sis Yea	r 2025	No-Bui	ld .	Analysis	Period	1> 1	7:00			
Intersection		Galloway Rd/Bristo	l Rd	File N	***************************************		way Rd		Rd_np		950			ነ ነ	
Project Descrip	tion	22-062 Proposed F		enter		<u> </u>								11111	
Demand Inforr	mation		description of		EB			WE	3.44 V		N	В		SE	3 (4.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
Approach Move	ement			L	Т	R	L	T	R	L	Т	R	L	T	R
Demand (v), v	reh/h			a jiraki	404	229	17	262	2. 10 (10)	275		23		å det	
Signal Informa	·									i			5.5	K.	
Cycle, s	120.0	Reference Phase	2		\		21					4	₹ :	ገ	
Offset, s	0	Reference Point	End	Greer	1 80.0	30.0	0.0	0.0	0.0	0.0			7		
Uncoordinated	No	Simult. Gap E/W	On	Yellov		3.0	0.0	0.0	0.0	0.0					
Force Mode	Fixed	Simult. Gap N/S	On	Red	2.0	2.0	0.0	0.0	0.0	0.0		5	6		/ I
									96 W 18				1-1		
Timer Results				EB		EBT	WE	3L	WBT	NB	_	NBT	SBI		SBT
Assigned Phase	е					2			6			8			70
Case Number						8.0			8.0			9.0			4.1
Phase Duration	i, S					85.0			85.0			35.0			
Change Period,	, (Y+R	c), S				5.0			5.0		47.5	5.0			
Max Allow Head	dway (//	ИАН), s				0.0			0.0			3.1			
Queue Clearan	ce Time	(gs), S						17.4			. 177	20.7			. "
Green Extensio	n Time	(ge), s				0.0			0.0			0.4			
Phase Call Prob	bability			1 (2000)						13.5.4.17		1.00			
Max Out Probal	bility											0.01			
Movement Gro	·/////////////////////////////////////	ults			EB			WB			NB	and the second second		SB	Merchanis and a second
Approach Move				L	Т	R	L	T	R	L	Т	R	L	T	R
Assigned Move	MYA-CHIVANIAN-CHIVER				2	12	1	6		3		18			
Adjusted Flow F					681	<u> </u>		300		296		25			
	****	w Rate (s), veh/h/l	n		1645			1651		1745		1589			
Queue Service		· · · · · · · · · · · · · · · · · · ·			27.5			0.0	<u> </u>	18.2		1.4			
Cycle Queue Cl	www.commenter.com	e Time (g_{c}), s			27.5			8.2		18.2		1.4			
Green Ratio (g					0.68			0.68		0.26	A	0.26			
Capacity (c), v					1110			1146		451	*************	410			
Volume-to-Capa					0.613	-8		0.262	4	0.656		0.060			
	CONTRACTOR OF THE STREET	/In (95 th percentile			380.4			137.2		321.9		24.3			
And control of the co		eh/ln (95 th percenti	- contract c		14.9			5.4		12.6		1.0			
Queue Storage	Ratio (RQ) (95 th percent	ile)	4,44,34	0.00			0.00		0.00	4.5	0.29			
Uniform Delay ((d1), s/	veh			10.8			7.7		39.7		33.5			
Incremental Del	lay (d 2), s/veh			2.5			0.6		2.8	1.12.4.14.	0.0			
Initial Queue De	elay (d :	3), s/veh			0.0			0.0		0.0		0.0			WARE CALD COLOR
Control Delay (d), s/ve	eh en en en en en en en en en en en en en			13.3			8.2		42.5		33.5			
Level of Service	(LOS)				В			Α		D		С			
Approach Delay	, s/veh	/LOS		13.3	3	В	8.2		Α	41.8		D	0.0		
Intersection Del	ay, s/ve	h/LOS		***************************************		19	9,2						В	and the same of th	
Multimodal Re	suits				EB			WB			NB			SB	
Pedestrian LOS	Score	/LOS		1.65	5	В	0.6	3	Α	1.74		В	1.74		В
Bicycle LOS Sc	ore / LC)S		1.61	AH AH	В	0.9	В	Α			jaj F			

	НС	S Sig	nalize	ed Int	tersect	ion F	Resul	ts Su	mmar	<u></u>				
		an a												
General Information			and the second					Interse	ction In	forma	tion	1	1411.4	
Agency	Horner & Canter As	ssoc				***************************************		Duratio	n, h	0.2	50			
Analyst	DHH		Analy	⁄sis Da	te Nov 1	0, 202	3	Area T	уре	Oth	er			
Jurisdiction [Bensalem Twp		Time	Period	SAT F	Peak H	our	PHF		0.96	6	₹-₩	w	t • 7 7−
Urban Street		000000000000000000000000000000000000000	Analy	sis Yea	ar 2025	No-Bui	ild	Analys	s Period	1 1> 1	7:00			
Intersection	Galloway Rd/Bristo	l Rd	File N	lame	Gallov	vay Ro	_Bristo	l Rd_ns	s.xus				ጎ	<i>?</i>
Project Description 2	22-062 Proposed F	Retail Co	enter							***			5 1 1 4	
	T - 10													
Demand Information				EB			W	3		N	В		SI	В
Approach Movement			L.	T	R	L	T	R		T	. R	L	Т	R
Demand (v), veh/h		NAME OF THE		356	226	13	33	8	250)	18	3	more amore a	
Signal Information			1				- Y							
	Defenses Dhass	1 2							İ		30.00		ĸ	
	Reference Phase	2		 	• 5 <i>i</i>	79					1	戈 』		3
	Reference Point	End		1 45.0		0.0	0.0	0.0			190 (80.0)			1 1 1 1
	Simult. Gap E/W	On	Yellov		3.0	0.0	0.0	0.0				Y		
Force Mode Fixed S	Simult. Gap N/S	On	Red	2.0	2.0	0.0	0.0	0.0	0.0		5	6		7
Timer Results			ED		грт Т	10/1	<u> </u>	MOT	II NIE		MET		. 1	0.00
Assigned Phase	S. 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		EB	L 12	EBT	WE	SL.	WBT	NB	L	NBT	SE	3L	SBT
Case Number		g saugú er er e		14 12 1 A A	2		Seegale 199	6		1,111	8			
Phase Duration, s					8.0			8.0		-	9.0			ATTACAMA NATIONAL PARTIES AND AND AND AND AND AND AND AND AND AND
		anga da ka		3. 5. 3 3.3	50.0	* 11		50.0		6.0 1 1 1 1 V	30.0			
Change Period, (Y+Rc)					5.0			5.0			5.0			
Max Allow Headway (MA					0.0			0.0	-		3.1			
Queue Clearance Time (A A A CONTRACTOR OF THE PARTY O					A CONTRACTOR OF THE PARTY OF TH				· · · · · · · ·	11.9			Side control of the second second second second second second second second second second second second second
Green Extension Time (<i>g e)</i> , s	en falkerin ka			0.0			0.0			0.4			
Phase Call Probability		e Accipicit e sej						1,111		MAN.	1.00			
Max Out Probability				l					II.		0.00			
Movement Group Resul	lts			EB			WB			NB	11.41.15		SB	
Approach Movement			L	T	R	ı	ΙT	T R	1	T	R		T T	IR
Assigned Movement		AD BE		2	12	1 🔻	6	 '`	3		18	1 -		
Adjusted Flow Rate (v),	veh/h		3900-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	606	1		366	Z. (CN.MP-1-01-1-1	260		19			
Adjusted Saturation Flow		n		1651			1720		1758		1516		1	
Queue Service Time (g s				19.7		West of the second seco	0.0	<u> </u>	9.4		0.7			
Cycle Queue Clearance	THE RESERVE OF THE PERSON OF T			19.7			9.0		9.4		0.7			
Green Ratio (g/C)				0.57		CHINA WALL AND A	0.57		0.32		0.32	-		
Capacity (c), veh/h			VA-34V47	949			1036		571		493			
Volume-to-Capacity Ratio	(X)			0.639		***************************************	0.353		0.456		0.038			
Back of Queue (Q), ft/lr			N. S. S. S.	285.6			146.2		164.6		10.5			
Back of Queue (Q), veh	The state of the s	NAME OF TAXABLE PARTY.		11.2		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5.8		6.5		0.4			
Queue Storage Ratio (Re				0.00			0.00		0.00		0.4			
Uniform Delay (d 1), s/ve		/		11.4			9.1		21.4		18.5			
Incremental Delay (d 2),				3.3			0.9		0.2	4,14,44	0.0			
Initial Queue Delay (d 3)				0.0			0.0		0.0		0.0			-
Control Delay (d), s/veh	CONTRACTOR OF THE PROPERTY OF			14.7			10.1		21.6		18.5			
Level of Service (LOS)	,		<u> </u>	В			В		C		10.3 B		1	
Approach Delay, s/veh / L	os		14.7		В	10.1		В	21.4		С	0.0		
Intersection Delay, s/veh					14.	market of market and interest					J	В		
		Œ			1 T,	_			J	MANUFACTURE OF CARDE		_		
7. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	, 200										- 10 m	48.0		
Multimodal Results				EB			WB			NB			SB	
Multimodal Results Pedestrian LOS Score / L			1.65		В	0.68		A	1.72	NB	В	1.72	SB	В

		HC	S Sigi	nalize	d Int	tersec	tion F	Resul	ts Sı	umn	nary					
The state of the s																
General Inform	nation								Inters	ectio	n Info	ormati	on			H.C
Agency	-	Horner & Canter As	ssoc						Durati	ion, h		0.250)		*	
Analyst		DHH		Analy	sis Da	te Mar 2	29, 2024	- 1	Area [*]	Гуре		Othe	Γ			
Jurisdiction		Bensalem Twp		Time	Period	AM F	eak Ho	ur	PHF			0.87			vr∳e	7
Urban Street				Analy	sis Yea	ar 2025	No-Bui	ld	Analy	sis Pe	eriod	1> 7:	00	13		
Intersection		Bristol Rd/Richlieu	Rd	File N	ame	Bristo	ol Rd_R	ichlieu	Rd_na	a.xus					41	
Project Descrip	tion	22-062 Proposed F	Retail Ce	enter							•			•	THITEY	11
															1 T	
Demand Infori		77			EB	material designation of the second		WE	В	emonimo ja		NB			SB	
Approach Move				L	T	R		T		R	L	T	R	L	T	R
Demand (v), v	eh/h			10	222	2 31	296	32	7 1	0	12	0	187	10	0	10
0:	4:	The State of the S						l l								
Signal Informa		D-6	1 ^				片싸	.					<u> </u>	,		人!
Cycle, s	105.0	Reference Phase	2		1	" "	• M	7			l		1	♥ 』	- 3	
Offset, s	0	Reference Point	End		14.4		3.4	16.			0.0			Ā.		
Uncoordinated	No 	Simult. Gap E/W	On	Yellov		4.0	4.0	3.0			0.0			Y		*
Force Mode	Fixed	Simult. Gap N/S	On	Red	3.0	3.0	4.0	4.0]0.	.0	0.0		5	-6	7	
Times Decults				F-0	- 1-	COT	1 140	, 1	1 A / Corr	- 11	NO		MOT		, -,	ODT
Timer Results		· · · · · · · · · · · · · · · · · · ·		EB	L	EBT	WE	L	WBT		NBL		NBT	SB	L	SBT
Assigned Phase	e					2	1		6		VALUE OF THE PARTY		8			4
Case Number			the consequence of the state of			6.3	1.0	Name and Address of the Owner, where the Owner, which is the Ow	4.0		Martin Balling Martin Avan		11.0			12.0
Phase Duration			* * * 1			48.7	21.		70.1		***************************************	·····	23.5			11.4
Change Period						7.0	7.0		7.0				7.0			8.0
Max Allow Head	THE RESERVE OF THE PARTY OF THE	~~	:			0.0	3.1		0.0				3.3			3.4
Queue Clearan	AT A MINING TO A STREET A STREET						13.	······································			HANNE III CONSTRUCTOR		19.9	***************************************		7.0
Green Extensio		(ge), S				0.0	0.5		0.0				0.0			0.0
Phase Call Prol							1.0						0.99			0.49
Max Out Probal	ollity						0.0)		[1.00			1.00
Movement Gro	un Ros	ulte			EB		1	WB		1		NB			SB	
Approach Move	MONOTONE AND AND ADDRESS OF			L	T	R		T	R		1	T	R	l	T T	R
Assigned Move				5	2	12	1	6	16		3	8	18	7	4	14
Adjusted Flow F		\ veh/h		11	147	144	340	387	10			14	157		23	17
	NAME OF TAXABLE PARTY.	w Rate (s), veh/h/l	n	988	1652	_	1666	1726				1821	1647		1777	
Queue Service	CONTRACTOR OF THE PARTY OF THE	THE RESERVE THE PROPERTY OF TH	T I	0.7	6.1	6.2	11.4	11.8				0.7	9.3	- manual brazant	1.3	
Cycle Queue Cl				0.7	6.1	6.2	11.4	11.8	1	-		0.7	9.3	NIII. 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	1.3	
Green Ratio (g		9 11110 (9 6)1 0		0.41	0.41	0.41	0.58	0.61		-		0.17	0.17	######################################	0.04	**************************************
Capacity (c), v	CONTRACTOR OF THE PARTY OF THE			471	672	643	687	1054				302	274	40.411.6	75	
Volume-to-Capa		tio (X)		0.024	0.219		<u> </u>						0.576		0.305	
		In (95 th percentile	\ \	8.2	115.3			200.7				13.2	174.9		27.9	
THE RESERVE THE PROPERTY OF TH	***************************************	h/ln (95 th percenti		0.3	4.4	4.3	7.1	7.8				0.5	6.8	***************************************	1.1	
ATTERNATION OF THE PROPERTY AND THE PROPERTY OF THE PROPERTY O	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	RQ) (95 th percent		0.00	0.00	EVE CONTRACTOR OF THE PERSON NAMED IN CO	0.00	0.00	-			0.00	0.00		0.00	
Uniform Delay (***************************************	2002-0	110)	18.7	20.3	20.3	12.3	10.3	1			36.8	40.4	ALCO TO THE REAL PROPERTY.	48.8	
Incremental Del				0.1	0.7	0.8	0.2	1.0	-			0.0	1.9		0.8	
Initial Queue De				0.0	0.0	0.0	0.2	0.0		TEC STREET		0.0	0.0		0.0	
Control Delay (CONTRACTOR CONTRACTOR	portunitiva accordante e en el como el como el c		18.8	21.0	21.1	12.5	11.3		e de la compa		36.8	42.3		49.6	
Level of Service				10.0 B	Z1.0	C 21.1	12.5 B	н.э В	-			30.6 D	42.3 D		49.6 D	
Approach Delay	TAIN THE TAIN A CONTRACT OF THE PARTY OF THE	/108		21.0		C	11.8		В		41.8	<u> </u>	.D	49.6	·	T
Intersection Delay				∠1.U).0		D		41.0			THE REAL PROPERTY OF THE PARTY	<u>' </u>	D
microection Del	ay, s/vel	II / LUO				18	7.U			_ _			E			
Multimodal Res	ultimodal Results				EB			WB		- ₁₁		NB	1		SB	
Pedestrian LOS		· · · · · · · · · · · · · · · · · · ·		1.99		В	1.66		В	-	2.15	1417	В	2.13		В
Bicycle LOS Sc	may represent the second	AND THE RESERVE OF THE PROPERTY OF THE PROPERT		0.74	TOTAL PROPERTY OF THE PARTY OF	А	1.69		В		0.77		A	***************************************		CONTRACTOR OF THE PARTY
PICANG FOR SO	JIE / LU	<u> </u>	New York	0.74	L_	Λ.	1.08	<u>' </u>	D		0.11	l	^	0.53		Α

	HCS Si					tersec	tion F	Resul	ts Su	mmar	ν					
THE STATE OF THE S			•								<i>y</i>			THE STATE OF		
General Informat	tion								Interse	ction Ir	forma	ation]	11141	HG.
Agency	***************************************	Horner & Canter As	SSOC				-		Duratio		0.2	~~~~~			4	
Analyst		DHH		Analy	sis Da	ate Mar	29. 2024	4 1	Area Ty		Oth			4		
Jurisdiction		Bensalem Twp		Time	CHICAGO POR CONTRACTOR OF CONT		Peak Ho		PHF		0.9	ana www.merena.	ENATOMETIMA.		w∔E	÷
Urban Street		The state of the s	CHADISTIC MOTOR CONTRACTOR	Analy	703mm/mb=6/mm/A	A PANIS SALAR SALA	No-Bui		**************************************	s Period		7:00		Z T	S	
Intersection		Bristol Rd/Richlieu	Rd	File N	Design Commence	***********	ol Rd R		~~~~~							_
Project Description		22-062 Proposed F	************				J. 1 (41 (ioimou	rtu_rip.						新子 图目中Y	/H/
) reject zeconpile.		== ooz (loposou l	CO,COIII CO	511(01								-11				37.5
Demand Informat	tion	<u> </u>			El	В		W	В		N	lB			SB	
Approach Moveme	ent	A STATE OF THE STA		L	T	- R	L	Т	R	İL		T .	R	L	T	R
Demand (v), veh/	/h			10	37	'1 31	233	3 27	4 10	25	(0 4	29	10	0	10
Signal Informatio	n					5	L JUL									
Cycle, s 10	05.0	Reference Phase	2				èni ra	77				. ∀)	6 6 W	KAX
Offset, s	0	Reference Point	End	Greer	10.6	6 44.5	2.3	18.	7 0.0	0.0) 333			1 * T	3	
Uncoordinated N	No	Simult. Gap E/W	On	Yellov			4.0	3.0				3 (4 6)		?=		KŮ
Force Mode Fi	ixed	Simult. Gap N/S	On	Red	3.0	3.0	4.0	4.0	0.0	0.0)	5		6	7	Ì
Timer Results	Mired t			EB	L	EBT	WE	BL	WBT	NE	3L	NBT		SBL	-	SBT
Assigned Phase	***************************************					2	1		6			8	1			4
Case Number						6.3	1.0)	4.0	1000000		11.0				12.0
Phase Duration, s						51.5	17.	6	69.1			25.7	See a see a see a see a see a see a see a see a see a see a see a see a see a see a see a see a see a see a se			10.3
Change Period, (\	ange Period, (Y+R ℴ), s					7.0	7.0)	7.0			7.0				8.0
Max Allow Headwa	ay (<i>M</i>	<i>1AH</i>), s				0.0	3.1		0.0			3.3				3.4
Queue Clearance	Time	(gs),s		1, 1, 11, 11, 11, 11, 11, 11, 11, 11, 1		1 1 1 1 1 1	10.	2				18.4				3.7
Green Extension T	īme (<i>g e</i>), s	THE PERSONS OF A STREET ASSESSED.		l	0.0	0.4		0.0			0.3				0.0
Phase Call Probab	oility		Y restric				1.0	0				1.00				0.46
Max Out Probability	ty	The state of the s					0.0	0				0.46				0.00
Movement Group	nikatowa tematami	ults			EB	}		WB			NB	}			SB	
Approach Moveme				L	Т	R	L	T	R	L	T	R		L	T	R
Assigned Moveme	CONTROL OF THE PROPERTY.		****	5	2	12	1	6	16	3	8	18		7	4	14
Adjusted Flow Rate				10	211		243	296			26	26	5		21	
WAS ARREST OF THE PROPERTY OF		w Rate (s), veh/h/l	n	1101	1736	6 1688	1680	1766			182°	1 168	5	***************************************	1815	
Queue Service Tim	COLUMN TO THE REAL PROPERTY.			0.6	8.3		7.7	8.4		<u> </u>	1.2				1.2	
Cycle Queue Clear		Time (<i>g c</i>), s		0.6	8.3		7.7	8.4			1.2	15.	9		1.2	
Green Ratio(g/C)			77W77-11-14W7-1	0.43	0.43	3 0.43	0.57	0.60			0.19	0.1	9		0.03	
Capacity (c), veh/				545	752	731	595	1061			341	316	3		57	-
Volume-to-Capacity				0.019	0.28	_		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			0.07				0.368	
		In (95 th percentile		6.8	155.		123.3	145.1			24.4				25.3	
	AND A PARKET WARRANTS	h/ln (95 th percenti	EXCEPTION OF THE PROPERTY OF T	0.3	6.2	6.1	4.9	5.8			1.0	11.8	В		1.0	
	************	RQ) (95 th percent	ile)	0.00	0.00	0.00	0.00	0.00			0.00	0.0	0		0.00	
Uniform Delay (d 1	1), s/\	veh		17.0	19.2	19.2	12.2	10.1			35.2	2 41.	1		49.8	
Incremental Delay	(d2)), s/veh		0.1	0.9	1.0	0.2	0.7			0.0	11.3	3		1.5	
Initial Queue Delay	itial Queue Delay (d ɜ), s/veh			0.0	0.0	0.0	0.0	0,0			0.0	0.0			0.0	
Control Delay (d),	ontrol Delay(d), s/veh			17.1	20.1	20.2	12.4	10.7			35.2	52.4	4		51.3	
Level of Service (Lo	evel of Service (LOS)			В	С	С	В	В			D	D			D	
Approach Delay, s/	pproach Delay, s/veh / LOS			20.1		С	11.5	5	В	50.	9	D		51.3		D
Intersection Delay,	tersection Delay, s/veh / LOS					2	4.0						C		Almonometric de la constante d	
Multimodal Result	ıltimodal Results				EB			WB			NB				SB	
Pedestrian LOS Sc	destrian LOS Score / LOS			2.16		В	1.66		В	2.1	5	В		2.13		В
Bicycle LOS Score	cycle LOS Score / LOS			0.84		Α	1.38	3	Α	0.9	7	Α	dirental	0.52		Α

HCS Sig	gnaliz	ed In	tersec	tion F	Resu	Its S	Sum	mary					
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Jurisdiction Bensalem Twp	Time	Perio	d SAT	Peak H	our	PHF	***************************************		0.97	7	3	vi¦e	<u>;</u>
Urban Street	Anal	/sis Ye	ar 2025	No-Bu	ild	Anal	vsis F	Period	1> 7	on a war with the control of the con			
Intersection Bristol Rd/Richlieu Rd	File N	lame	Brist	ol Rd_R	lichlieu			*****					
Project Description 22-062 Proposed Retail (****					-	ি শ্বি শিলা †লিকৈ	F
Demand Information		E	3		W	В	5 (55 × 1)		NE	3		SB	
Approach Movement	L	т	R	L	T	-	R	L	T	R	L	T	R
Demand (v), veh/h	10	30	7 33	237	7 36	8	10	13	0	288	10	0	10
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Offset, s 0 Reference Point End	Gree	า 9.6	51.1	2.3	13.	0 0	0.0	0.0	10.00		K	,	
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Force Mode Fixed Simult. Gap N/S On	Red	3.0	3.0	4.0	4.0) [(0.0	0.0		5	6	. 7	
	l l												
Timer Results	EB	<u> </u>	EBT	WE	3L	WB	Г	NBL		NBT	SE	3L	SBT
Assigned Phase			2	1		6				8	- Contraction		4
Case Number			6.3	1.0)	4.0				11.0			12.0
Phase Duration, s			58.1	16.		74.7	· · ·	***************************************		20.0			10.3
Change Period, (Y+Rc), s	100		7.0	7.0)	7.0		111		7.0			8.0
Max Allow Headway (<i>MAH</i>), s			0.0	3.1		0.0			1	3.3			3.4
Queue Clearance Time (g s), s				9.2	2	ANTANIA MARIA MARIA MA				12.9			3.7
Green Extension Time (g_{θ}), s			0.0	0.4	!	0.0	an and an an an an an an an an an an an an an			0.2			0.0
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Movement Group Results		EB			WB	:			NB	,		SB	
Approach Movement	L	T	R	L	T	R		L	Ţ	R	L	Т	R
Assigned Movement	5	2	12	1	6	16	3	3	8	18	7	4	14
Adjusted Flow Rate (v), veh/h	10	177	173	244	390				13	173		21	
Adjusted Saturation Flow Rate (s), veh/h/ln	1010	1750		1693	1769				1821	1685	· All	1815	
Queue Service Time (g s), s	0.5	6.0	6.1	6.7	10.2				0.7	10.4		1.2	
Cycle Queue Clearance Time (g o), s	0.6	6.0	6.1	6.7	10.2	A			0.7	10.4		1.2	
Green Ratio (g/C)	0.50	0.50		0.62	0.65	_			0.13	0.13		0.03	
Capacity (c), veh/h	569	868	838	693	1158	EST ANNOUNCED TO			243	225		56	
Volume-to-Capacity Ratio (X)	0.018			0.353	0.337				0.055	0.770	<u> </u>	0.366	<u></u>
Back of Queue (Q), ft/ln (95 th percentile)	5.9	108.7		102.7	167.7	, J			13.4	202.3		25.1	A Colorana magnar
Back of Queue (Q), veh/ln (95 th percentile)	0.2	4.3	4.3	4.1	6.7				0.5	8.1		1.0	
Queue Storage Ratio (RQ) (95 th percentile)	0.00	0.00	0.00	0.00	0.00		No.		0.00	0.00		0.00	
Uniform Delay (d 1), s/veh	13.5	14.8		9.3	8.0				39.7	43.9		49.9	
Incremental Delay (d 2), s/veh	0.1	0.5	0.6	0.1	0.8				0.0	5.6		1.5	
Initial Queue Delay (d ਭ), s/veh	0.0	0.0	0.0	0.0	0.0				0.0	0.0		0.0	
Control Delay (d), s/veh	13.5	15.4	15.4	9.4	8.8				39.7	49.5	2000	51.3	
Level of Service (LOS)	В	В	В	Α	Α				D	D		D	
Approach Delay, s/veh / LOS	15.3		В	9.0		Α		48.8		D	51.3	3	D
Intersection Delay, s/veh / LOS		Mark Inches	17	7.8							3		Annual Control of the
Multimodal Results		EB			WB				NB			SB	
Pedestrian LOS Score / LOS	2.07	CONTRACTOR DESCRIPTION	В	1.65		В		2.15		В	2.14	1	В
Bicycle LOS Score / LOS	0.79		Α	1.53		В	L. Control	0.80		Α	0.52	2	Α

APPENDIX G Build Capacity/LOS Analysis Worksheets

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General Informati	ion	and the second s								Inte	ersec	tion In	format	on		14 1/14	III L
Agency		Horner & Canter As	ssoc	***************************************				:		Dur	ration	, h	0.25	0		41	
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Jurisdiction		Bensalem Twp		Time	Perio	d	AM Pe	eak Ho	ur	PH	F		0.87		至	yr i e	Ţ
Urban Street				Analy	sis Ye	ear	2025	Build		Ana	alysis	Period	1> 7	:00	三		
Intersection		Galloway Rd/Richli	eu Rd	File N	ame		Gallov	vay Rd	_Richl	ieu I	Rd_b	a.xus				<u>ነ</u> ተየ	
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Demand (v), veh/l	'h			15	8	0	154	122	20	18	7	201	153	42] 2	215	48
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	0	Reference Point	End			M"		1					17.655 27.855	9.1	) 2	3	Z
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		Simult. Gap N/S	On	Yellow Red	3.0	THATALANIA HISTORY	4.0 3.0	3.0	0.0	THE RESERVE AND PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PA	0.0	0.0		<b>`</b> \'	₽	8 5 0	Y
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Timer Results				EB	ī	F	ВТ	WB	. I	WE	RT	NB		NBT	SB		SBT
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Approach Movemer	nt			L	Т		R	L	Т		R	L	Т	R	L	T	R
Assigned Movemer	nt			7	4		14	3	8		18	5	2	12	1	6	16
Adjusted Flow Rate	NAME OF TAXABLE	AND TAKEN THE PROPERTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P		17	234	1		140	247			231	176	43	2	297	
Adjusted Saturation	***************		n	998	164	3		1146	1784	-		1723	1795	1497	1228	1715	
Queue Service Time				1.4	11.7	()		11.4	11.3			7.4	4.8	1.3	0.1	12.8	
Cycle Queue Cleara	Anterior Comments of	Time $(g_c)$ , s		12.7	11.7			23.0	11.3			7.4	4.8	1.3	0.1	12.8	
Green Ratio ( g/C )	TEACHER TO MUSEUM			0.31	0.3			0.31	0.31			0.53	0.57	0.57	0.40	0.40	
Capacity (c), veh/h	30000000000000000000000000000000000000			274	515			299	560			562	1020	851	564	689	
Volume-to-Capacity				0.063	<del></del>			0.469				0.411	0.172	0.050	0.004	0.430	
Back of Queue (Q)			THE PERSON NAMED IN COLUMN 1	17.6	204	<del>(jaza</del>		145.7	211.5			122.9	84.3	19.4	1.5	228.6	
Back of Queue (Q)	THE RESERVE OF THE PERSON NAMED IN	THE TAXABLE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PART	and the second and the second	0.6	8.0			5.7	8.3			4.8	3.3	0.7	0.1	9.0	-
Queue Storage Rat	one and the same		ile)	0.10	0.00			0.65	0.00	am/j=4mm=		0.59	0.00	0.09	0.02	0.00	
Uniform Delay ( d 1				32.9	28.0			37.2	27.9	<b>_</b>		14.2	10.7	9.8	18.3	22.1	
Incremental Delay (	·			0.1	0.6			1.1	0.5	_		0.5	0.4	0.1	0.0	2.0	
	itial Queue Delay ( d ₃ ), s/veh			0.0	0.0	-		0,0	0.0			0.0	0.0	0.0	0.0	0.0	e enemerature en en en en en en en en en en en en en
THE RESERVE OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF T	ontrol Delay ( d ), s/veh			33.0	28.6	3		38.4	28.4	ļ		14.7	11.1	9.9	18.3	24.0	
	evel of Service (LOS)			С	C			D	C			В	В	L_A	В	C	<u></u>
CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF	pproach Delay, s/veh / LOS			28.9		(		32.0	1	С		12.8		В	24.0	)	С
tersection Delay, s/veh / LOS						23.	.5				íe.			С			
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	Jultimodal Results			2 42	EB		_	4 00	WB	<u></u>		4 00	NB I	D .	1	SB	<b>D</b>
Bicycle LOS Score	edestrian LOS Score / LOS			2.12		Charles Andrewson	3	1.93		B		1.89	WIELEN AND AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO IN COLUMN TWO I	В	1.96		В
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General Information				an anna tao					Inte	ersec	tion In	formati	ion		14141	1-11
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Urban Street		thread transformation	Analy	sis Ye	ear	2025 [	Build		Ana	alysis	Period	1> 7	:00	<u> </u>		4.6
Intersection	Galloway Rd/Richlie	eu Rd	File N	ame		Gallov	vay Rd	_Rich	lieu l	Rd_b	p.xus			7	ነተሰ	
Project Description	22-062 Proposed R	etail Ce	enter											1 1	为国主体外	1-1
Demand Information				E	В		unit of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same o	V	VB			NB			SB	
Approach Movement			L		Γ	R	L		r	R	L	Т	R	L	T	R
Demand (v), veh/h			67	30	)6	235	67	10	61	6	202	299	113	1	199	31
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Cycle, s 117.0	Reference Phase	2		R	W.	"1		7		l			- 1	`Y2	3	₹
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Uncoordinated No	Simult, Gap E/W	On	Yellow	ampen and a second	Milicinatora de Compresa,	4.0	4.0	0.1		0.0	0.0	Zena Militaria	<b>)</b>   Κ	<b>D</b>		Z
Force Mode   Fixed	Simult. Gap N/S	On	Red	3.0	)	3.0	3.0	0.0	J	0.0	0.0		5	6	7	
Timer Results			ED			рΤ	WO		\ A //	DT	ND.		NDT	I - CD		CDT
Assigned Phase			EB			BT	WB		WI		NB 5		NBT	SB	<u> </u>	SBT
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<del>/</del>	nange Period, ( Y+R c), s				***************************************	0.0			40		20.0		77.0			57.0
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	ix Allow Headway ( <i>MAH</i> ), s leue Clearance Time ( <i>g</i> _s ), s					6.5			4.		4.1		0.0			0.0
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Phase Call Probability	(90), 8					.00		-	1.0		1.00		0.0			0.0
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Max Out 1 Tobability					1.	00 [		L.	1.0	,0	1.00	<u>'                                    </u>		<b>4</b>		
Movement Group Res	ults			EE	3			WE	}			NB		1	SB	
Approach Movement	W-WW.	UNITED BY THE STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,	L	T	į.	R	L	T		R	L	T	R	L.	T	R
Assigned Movement			7	4		14	3	8		18	5	2	12	1	6	16
Adjusted Flow Rate ( v )	), veh/h		71	517	7		71	176			213	315	93	1	237	
Adjusted Saturation Flo		)	1199	173	4		898	181	1		1723	1823	1557	1082	1717	
Queue Service Time ( $g$	CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR O		5.7	34.0	0		0.0	8.9			7.0	9.6	2.9	0.1	10.6	-
Cycle Queue Clearance			14.7	34.0	0		34.0	8.9			7.0	9.6	2.9	0.1	10.6	
Green Ratio ( g/C )			0.29	0.29	9		0.29	0.29			0.58	0.61	0.61	0.44	0.44	American Commission
Capacity ( c ), veh/h			319	504			62	526			671	1106	945	533	748	
Volume-to-Capacity Rat	lio ( <i>X</i> )		0.221	1.02	26	, and the second	1.146	0.33	4	-Metro-season	0.317	0.284	0.098	0.002	0.317	ACCOUNTS TO ACCOUNTS TO ACCOUNTS
Back of Queue (Q), ft/	'in ( 95 th percentile)		78.1	716.	.3	No.	203.8	176.	3		117.1	171.2	44.2	0.8	198.7	
Back of Queue (Q), ve	h/ln ( 95 th percentil	e)	3.0	28.4	4		8.2	7.0			4.6	6.8	1.8	0.0	7.8	
Queue Storage Ratio ( /		Name of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last o	0.42	0.00	0		0.91	0.00		Ì	0.56	0.00	0.21	0.01	0.00	
Uniform Delay ( d 1 ), s/	veh		38.4	41.5	5		58.5	32.6	}	ĺ	12.8	11.1	9.6	18.6	21.6	
Incremental Delay ( d 2 )			0.3	46.8	в	ĺ	160.0	0.4			0.3	0.6	0.2	0.0	1.1	
Initial Queue Delay ( d ₃			0.0	0.0			0.0	0.0			0.0	0.0	0.0	0.0	0.0	
Control Delay ( d ), s/ve	h		38.7	88.3	3	a Kopu	218.5	33,0	)		13.1	11.8	9.8	18.6	22.7	
Level of Service (LOS)			D	F		te sandiline	F	С			В	В	Α	В	С	
	pproach Delay, s/veh / LOS				F	-	86.1	Ì	F		11.9	1	В	22.7	;	С
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Urban Street				Analy	sis Y	ear	2025	Build	SIA PROGRAMMA	An	alysis	Period	1> 7	:00	3		
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Green Ratio ( g/	**************************************			0.31	0.3	manus (max		0.31	0.3			0.53	0.57	0.57	0.40	0.40	
Capacity ( c ), v				386	547			294	572			661	1037	885	565	691	
Volume-to-Capa	Para Para Mila China da Angela	io (X)		0.086	0.46			0.287	(			0.227	0.168	0.061	0.004	0.273	CONTRACTOR OF THE PARTY.
		In ( 95 th percentile)	,	29.8	214	<del></del>		81.7	92.			74.4	81.7	23.9	1.4	141.1	
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Adjusted Flow F					454			323	ļ	189		16			····
***************************************		w Rate ( $s$ ), veh/h/l	n		1535			1707		1569		1420			***************************************
Queue Service					14.3	<u> </u>		0.0	<u> </u>	7.4		0.6			<u> </u>
Cycle Queue Cl	######################################	e Time ( $g  c$ ), s			14.3			7.8		7.4		0.6			
Green Ratio ( g		ann sana ann ann ann ann ann ann ann ann			0.57			0.57		0.32	<u> </u>	0.32			
Capacity ( c ), v					883			1028	<b> </b>	510		461			
Volume-to-Capa					0.514	<b>-</b>		0.314	<b>3</b>	0.370		0.036			
		/In ( 95 th percentile)			214.1			127.2	<b></b>	128.1		9.8			<b> </b>
	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of 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Approach Delay	proach Delay, s/veh / LOS			12.4		В	9.7		Α	20.7		C	0.0		
Intersection Del	ay, s/ve	h/LOS		***************************************		13	3.2				and the state of		В		
			TI.												
Multimodal Res	timodal Results				EB			WB			NB			SB	
Pedestrian LOS	Score /	/LOS		1.65	5	В	0.68	3	Α	1.72	2	В	1.72	2	В
Bicycle LOS Sc	ore / LO	S		1.24	- ]	Α	1.02	2	Α			F			

	HCS Sig	nalize	d Inte	ersect	ion R	esul	ts Sur	nmary	/				
General Information		- W			-fic	Ī	Intoreo	ction Inf	ormat	ion	1	lalva t	N. A.
Agency	Horner & Canter Assoc						Duration		0.25				
Analyst	DHH	LAnaly	eie Date	Nov 1	0 2023		Area Ty		Othe				
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Urban Street	Deligaletti Twh		sis Year				Analysis	Pariod	1> 7			ŝ	
Intersection	Galloway Rd/Bristol Rd	File N	in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se				I Rd bp			.00			
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1 Toject Description	22-002 i Toposed Netali O	GIRGI									-1		
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Signal Information	1											_	
Cycle, s 120	0.0 Reference Phase 2			71 _{R 2}	78		İ			5 9 7	$\rightarrow$	<b>`</b> `}`	
Offset, s	Reference Point End	Green	80.0	30.0	0.0	0.0	0.0	0.0			M 2	1 3	
Uncoordinated N	lo Simult. Gap E/W On	Yellov		3.0	0.0	0.0		0.0		5.5	abla		K.
Force Mode Fix	ced Simult. Gap N/S On	Red	2.0	2.0	0.0	0.0	0.0	0.0		5	6	7	Y
and the second second													
Timer Results		EB	Link in	EBT	WB	Fryd at	WBT	NBI	Fritti ja	NBT	SBI	_ 33	SBT
Assigned Phase				2			6			8			
Case Number				8.0			8.0			9.0	1111		
Phase Duration, s				85.0			85.0			35.0			
Change Period, (Y	′+R c ), s			5.0			5.0			5.0			ea ESC
Max Allow Headway	y ( <i>MAH</i> ), s			0.0			0.0			3.1			
Queue Clearance T	īme ( <i>g</i> s ), s									21.0	1,4,5,175		
Green Extension Ti	me $(g_e)$ , s			0.0			0.0	The second second		0.5			Section Section Section 5
Phase Call Probabi	lity									1.00			
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Approach Movemer		L	Т	R	L	Т	R	L	Т	R	L.	Т	R
Assigned Movemen			2	12	1	6		3		18			
Adjusted Flow Rate			686			300		300		33			
	Flow Rate ( s ), veh/h/ln		1644		ga <del>landar a kalandar kalandar sa k</del> a	1650		1745		1589		***************************************	
Queue Service Time		<u> </u>	27.9			0.0		18.5		1.9			
Cycle Queue Cleara			27.9		***************************************	8.2		18.5		1.9			
Green Ratio ( g/C )			0.68		W-A-7/	0.68		0.26		0.26			
Capacity ( c ), veh/h			1110			1146		451		410		Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor	
Volume-to-Capacity			0.618			0.262	<b>_</b>	0.666		0.081			
	), ft/ln (95 th percentile)		385.1		in interior	137.2		327.4		32.9		****	
	), veh/ln ( 95 th percentile)	<b>!</b>	15.0			5.4		12.8	***************************************	1.3			
	io (RQ) (95 th percentile)		0.00			0.00	1	0.00		0.39			
Uniform Delay ( d 1	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		10.9			7.7		39.9		33.7			<u> </u>
Incremental Delay (			2.6			0.6		3.0		0.0		*	
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Control Delay ( d ),	waxaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa		13.5			8.2		42.9		33.7			
Level of Service (LC			В			A	1	D		<u> </u>			<u> </u>
Approach Delay, s/v		13.	5 1 1	В	8.2		Α	41.9		D	0.0		
Intersection Delay, s	s/veh / LOS			19	.5						В		7/02/2016
		li .						и ———			4		
Multimodal Result			EB			WB			NB			SB	
Pedestrian LOS Sco		1.65	management of the second	В	0.68		Α	1.74		В	1.74	CANADA AND A CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	В
Bicycle LOS Score	/LOS	1.62	2 \ 1	В	0.98	3	Α			F		*** * .	

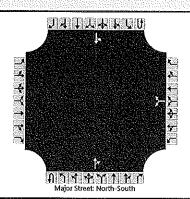
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Urban Street	***************************************	2WA-10-1-10-10-10-10-10-10-10-10-10-10-10-1	Analy	sis Yea	r 2025	Build		Analysis	Period	1> 7	7:00			
Intersection	Galloway Rd/Bristo	l Rd	File N	lame	Gallo	way Rd	_Bristo	I Rd_bs	.xus				ነ ሰ	
Project Description	22-062 Proposed R	etail Ce	enter					***************************************				1 1	ነለ ተቀን	
							16							
Demand Information				EB			WE	3		N	В		SB	
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Demand ( v ), veh/h				356	230	13	338	3	254		24			
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Timer Results			Гр		ГОТ	100		WOT	l No		NDT	W 60		ODT
			EB	<u> </u>	EBT	WE	SL	WBT	NB		NBT	SB	L	SBT
Assigned Phase Case Number					2			6	14 14 14 14 14 14	12 g ag 21 1 1 2	8			
					8.0			8.0			9.0			
Phase Duration, s				5 - 1 - 1	50.0		iga ngg Nan	50.0			30.0			
Change Period, (Y+R					5.0			5.0			5.0			
Max Allow Headway (					0.0			0.0			3.1			
Queue Clearance Time					~ ~			~ ~		WINDLESS CO.	12.1		***************************************	delia-mentament
Green Extension Time					0.0		7,33,3	0.0			0.4			
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Movement Group Re	sulfs			EB			WB			NB		l I	SB	
Approach Movement			[	T	R		Тт	l R		T	R		ΙŢ	T R
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Adjusted Flow Rate ( v	/ ). veh/h			610			366		265		25			
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Cycle Queue Clearance				20.0			9.0	1	9.6		0.9	Na. 3.3	išas,	V 15.
Green Ratio ( g/C )				0.57			0.57		0.32		0.32		M. No. of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Advantuation of Adva	
Capacity ( c ), veh/h				949			1036		571		493			1 -
Volume-to-Capacity Ra	atio (X)			0,643			0.353		0.463		0.051			
Back of Queue (Q), 1				288.2			146.2		167.2	1.11.11.	14.1			
Back of Queue (Q), v				11.3			5.8	1	6.6		0.5			
Queue Storage Ratio (	THE RESERVE THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF TH	Wallest Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of th		0.00			0.00	<b>†</b>	0.00		0.17		<u> </u>	20 mm
Uniform Delay ( d 1 ), s				11.5			9.1		21.5		18.5			<u> </u>
Incremental Delay ( d :				3.4		3.454	0.9		0.2		0.0			†
Initial Queue Delay ( d	~~~~~			0.0			0.0		0.0		0.0			
Control Delay ( d ), s/v				14.8			10.1		21.7		18.5		***************************************	
Level of Service (LOS)	BW2HAWWW		/	В			В		C		В			***************************************
Approach Delay, s/veh			14.8		В	10.	<u></u>	В	21.4	<u> </u>	C	0.0		<u>,</u>
Intersection Delay, s/ve						5.0					***************************************	В		
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Multimodal Results	timodal Results			EB			WB			NΒ			SB	
Pedestrian LOS Score	lestrian LOS Score / LOS		1.65	; <b>T</b>	В	0.68	3	Α	1.72	2	В	1.72		В
Bicycle LOS Score / LO	os		1.49		Α	1.09	9	Α			F			

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General Inform	nation			Mirro (Mar. 1902)					Interse	ction In	format	ion		7-417-4	Company of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro
Agency		Horner & Canter A	SSOC						Duration	ո, h	0.25	0		*	
Analyst		DHH		Analy	sis Da	ite Mar	29, 2024		Area Ty	ре	Othe	r			
Jurisdiction		Bensalem Twp		Time	Period	1 AM F	Peak Ho	-	PHF		0.87		1.5	w	· .
Urban Street	·····	A 100 (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)		Analy	sis Ye	ar 2025	Build		Analysis	s Period	1> 7	:00			
Intersection		Bristol Rd/Richlieu	Rd	File N	lame	Brist	ol Rd_R		***************************************	***************************************			<b>'</b>	l d	<u>م</u>
Project Descrip	tion	22-062 Proposed F	Retail C	enter										<u>ነ</u> ነ የተ	ነነ ተተ
0.5													,		
Demand Infor	nation		a Jakiti.		E	3		W	3		NB	25.1.5.1.5		SI	3
Approach Move	ement			L.	T	R	L	T	R	L	T	R	L	Т	R
Demand (v), v	eh/h			10	22	4 31	300	32	7 10	12	0	187	' 10	0	10
Signal Informa						<u>_</u>	L								
Cycle, s	105.0	Reference Phase	2		ž			p				<b>'</b>  -	♦』		
Offset, s	0	Reference Point	End	Greer	1 13.3	3 47.9	2.4	12.	3 0.0	0.0		8.8	K.		
Uncoordinated	No	Simult, Gap E/W	On	Yellov		4.0	4.0	3.0	0.0	0.0	10000000		7		R.
Force Mode	Fixed	Simult. Gap N/S	On	Red	3.0	3.0	4.0	4.0	0.0	0.0	e de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la companion de la compan	5	6		
Timer Results	1777			EB	L	EBT	WE	L	WBT	NB	L	NBT	SI	3L	SBT
Assigned Phase	Э		PART			2	1		6			8			4
Case Number	71.114.179011/000011/0440	AL ALVANON AND AND AND AND AND AND AND AND AND AN	15.115.51			6.3	1.0		4.0			11.0			12.0
Phase Duration	, S					54.9	20.	3	75.3			19.3			10.4
Change Period,	(Y+R	c), s				7.0	7.0		7.0			7.0		\ \ .	8.0
Max Allow Head	dway ( /	<i>ИАН</i> ), s				0.0	3,1		0.0			3.3			3.4
Queue Clearan	ce Time	(gs), s			Ì		12.	7				12.2			3.8
Green Extensio	n Time	( <i>g</i> e), s	10			0.0	0.6		0.0			0.2			0.0
Phase Call Prol	oability				İ		1,00	)				0.99			0.49
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Movement Gro	up Res	ults			EB	1 1 1 1 1 1 1 1	72.12	WB			NB	: * *	200	SB	
Approach Move	ment			L	T	R	L	Т	R	L	T	R	L	T	R
Assigned Move	ment			5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow F	Rate ( v	), veh/h		11	148	145	345	387			14	157		23	
Adjusted Satura	tion Flo	w Rate ( <i>s</i> ), veh/h/l	n	988	1652	1582	1666	1726			1821	1647		177	7
Queue Service	Time ( g	7 s ), S		0.7	5.5	5.7	10.2	10.3			0.7	9.7		1.3	
Cycle Queue Cl	earance	∋ Time ( <i>g ₀</i> ), s		0.7	5.5	5.7	10.2	10.3			0.7	9.7		1.3	
Green Ratio ( $g$	/C)		TO SECURE A SECURE A SECURE A SECURE A SECURE A SECURE A SECURE A SECURE A SECURE A SECURE A SECURE A SECURE A	0.47	0.47	0.47	0.63	0.66			0.13	0.13		0.03	}
Capacity ( c ), v	eh/h			529	770	737	738	1139			230	208	l	58	
Volume-to-Capa	city Ra	tio(X)		0.022	0.193	3 0.197	0.467	0.340			0.060	0.757		0.39	5
		/In ( 95 th percentile	)	7.2	102.		155.3		1 1 1 1 1		14	188.4		28.6	<del></del>
	***	eh/in ( 95 th percenti	WALLES AND THE REAL PROPERTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF	0.3	3.9	3.8	6.1	6.6	***************************************		0.6	7.4		1.1	
		RQ) (95 th percent	NAME OF TAXABLE PARTY.	0.00	0.00		0.00	0.00			0.00	0.00		0.00	)
Uniform Delay (				15.1	16.4		9.7	7.8			40.4	44.3		49.8	
Incremental Del		THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P		0.1	0.6	0.6	0.2	0.8			0.0	4.0		1.6	
Initial Queue De	***************************************			0.0	0.0	0.0	0.0	0.0			0.0	0.0		0.0	
Control Delay (	en a compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression de la compression della compression della compression della compression della compression della compression della compression della compression della compression della compression della compression della compression della compression della compression della compression della compression della compression della compression della compression della compression della compres	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	- Total Annual Service	15.2	17.0	***************************************	9.9	8.6			40.4	48.3		51.4	
Level of Service	TAX DESCRIPTION OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF			В	В	В	A	A			D	70.3 D	1	D	
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Cycle, s   105.0   Reference Phase   2	Demand (v), v	eh/h			10	379	31	238	27	4   10	25	0	426	10	0	10
Cycle, s   105.0   Reference Phase   2								- 1 111	_,							
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Uncoordinated   No   Simult. Gap EW   On   Yellow   4.0   4.0   4.0   3.0   3.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0						1	" <b> </b>	7 W	7				` , <u> </u>	♦ :	3	
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Assigned Phase    2		1			l en		CDT	l wo		MOT	l ve		NOT	N 05		ODT
Case Number         6.3         1.0         4.0         11.0         12.0           Phase Duration, s         51.5         17.8         69.2         25.5         10.3           Change Period, (Y+R∘), s         7.0         7.0         7.0         7.0         7.0         7.0         8.0           Max Allow Headway (MAH), s         0.0         3.1         0.0         3.3         3.4           Queue Clearance Time (g∘), s         10.0         0.4         0.0         0.3         18.2         3.7           Green Extension Time (g∘), s         10.0         0.4         0.0         0.3         0.0         0.4           Phase Call Probability         1.00         1.00         0.39         0.00         0.0           Movement Group Results         EB         WB         NB         SB           Approach Movement         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T					FRI	-		<b>\</b>	ㄴ		NR	<u> </u>		SB	<u> </u>	
Phase Duration, s         51.5         17.8         69.2         25.5         10.3           Change Period, (Y+Re), s         7.0         7.0         7.0         7.0         8.0           Max Allow Headway (MAH), s         0.0         3.1         0.0         3.3         3.4           Queue Clearance Time (g s), s         10.3         10.3         18.2         3.7           Green Extension Time (g s), s         0.0         0.4         0.0         0.3         0.0           Phase Call Probability         10.0         10.0         10.0         0.39         0.00           Movement Group Results         EB         WB         NB         SB           Approach Movement         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L	***************************************	•	**************************************				and the second second second second second				- 8		-			nanatal and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrease and decrea
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Queue Clearance Time (g s), s       10.3       18.2       3.7         Green Extension Time (g e), s       0.0       0.4       0.0       0.3       0.0         Phase Call Probability       1.00       0.00       1.00       0.39       0.00         Max Out Probability       0.00       0.00       0.39       0.00         Movement Group Results         Approach Movement       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L		<del> </del>					<del></del>									
Green Extension Time ( g ∘ ), s         0.0         0.4         0.0         0.3         0.0           Phase Call Probability         1.00         1.00         0.39         0.00           Max Out Probability         0.00         0.00         0.39         0.00           Movement Group Results         EB         WB         WB         NB         SB           Approach Movement         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         L         T         R         L         L							0.0	<u> </u>		0.0						
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Approach Movement  L T R L T R L T R L T R L T R Assigned Movement  Assigned Movement  5 2 12 1 6 16 3 8 18 7 4 14  Adjusted Flow Rate (v), veh/h  Adjusted Flow Rate (s), veh/h/ln  110 216 212 248 296 26 26 261 21  Adjusted Saturation Flow Rate (s), veh/h/ln  Adjusted Saturation Flow Rate (s), veh/h/ln  1101 1736 1889 1680 1766 1821 1685 1815  Queue Service Time (gs), s  0.6 8.4 8.5 7.8 8.4 1.2 15.7 1.2  Cycle Queue Clearance Time (gc), s  0.6 8.4 8.5 7.8 8.4 1.2 15.7 1.2  Green Ratio (g/C)  Capacity (c), veh/h  Volume-to-Capacity Ratio (X)  Back of Queue (Q), ft/ln (95 th percentile)  Back of Queue (Q), teh/ln (95 th percentile)  6.8 159 155.4 125.6 144.4 224.4 292.1 25.3  Back of Queue (Q), veh/ln (95 th percentile)  0.3 6.3 6.2 5.0 5.8 1.0 11.7 11.7 1.0  Queue Storage Ratio (RQ) (95 th percentile)  0.00 0.00 0.00 0.00 0.00 0.00 0.00  Uniform Delay (d1), s/veh  17.0 19.3 19.3 12.2 10.0 35.3 41.2 49.8  Incremental Delay (d2), s/veh  0.01 1.0 1.0 1.0 0.2 0.7 0.0 0.0 0.0 0.0 0.0  Control Delay (d3), s/veh  17.1 20.2 20.3 12.4 10.6 35.4 52.1 51.3  Delay Control Delay (d3), s/veh 1.0 17.1 20.2 20.3 12.4 10.6 35.4 52.1 51.3  Delay Control Delay, s/veh / LOS  Approach Delay, s/veh / LOS  Intersection Delay, s/veh / LOS  23.8 50 50 50 50 50 50 50 50 50 50 50 50 50	Max Out Probat	ollity						0.00	)		II.		0.39	1		0.00
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Assigned Movement  Adjusted Flow Rate ( v ), veh/h  Adjusted Flow Rate ( v ), veh/h  Adjusted Saturation Flow Rate ( s ), veh/h/ln  Adjusted Saturation Flow Rate ( s ), veh/h/ln  Adjusted Saturation Flow Rate ( s ), veh/h/ln  Adjusted Saturation Flow Rate ( s ), veh/h/ln  Adjusted Saturation Flow Rate ( s ), veh/h/ln  1101 1736 1689 1680 1766  Adjusted Saturation Flow Rate ( s ), veh/h/ln  Adjusted Saturation Flow Rate ( s ), veh/h/ln  1101 1736 1689 1680 1766  Adjusted Saturation Flow Rate ( s ), veh/h/ln  Adjusted Saturation Flow Rate ( s ), veh/h/ln  1101 1736 1689 1680 1766  Adjusted Saturation Flow Rate ( s ), veh/h/ln  1101 1736 1689 1680 1766  Adjusted Flow Rate ( s ), veh/h/ln  1101 1736 1689 1680 1766  Adjusted Flow Rate ( s ), veh/h/ln  1101 1736 1689 1680 1766  Assigned Movement  1102 121  248 296		***************************************			ı	CALL DE WALLES	l R	l I	Harris Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie	l R	1		l R	I	ogazona marane	T R
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Queue Service Time (gs), s       0.6       8.4       8.5       7.8       8.4       1.2       15.7       1.2         Cycle Queue Clearance Time (gc), s       0.6       8.4       8.5       7.8       8.4       1.2       15.7       1.2         Green Ratio (g/C)       0.43       0.43       0.43       0.57       0.60       0.19       0.19       0.03         Capacity (c), veh/h       545       752       732       593       1064       338       313       57         Volume-to-Capacity Ratio (X)       0.019       0.287       0.289       0.418       0.278       0.077       0.836       0.368         Back of Queue (Q), ft/in (95 th percentile)       6.8       159       155.4       125.6       144.4       24.4       292.1       25.3         Back of Queue (Q), veh/ln (95 th percentile)       0.3       6.3       6.2       5.0       5.8       1.0       11.7       1.0         Queue Storage Ratio (RQ) (95 th percentile)       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00 <td< td=""><td></td><td></td><td></td><td>1</td><td></td><td>***************************************</td><td></td><td></td><td><u></u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>				1		***************************************			<u></u>							
Cycle Queue Clearance Time (g c), s       0.6       8.4       8.5       7.8       8.4       1.2       15.7       1.2         Green Ratio (g/C)       0.43       0.43       0.43       0.57       0.60       0.19       0.19       0.03         Capacity (c), veh/h       545       752       732       593       1064       338       313       57         Volume-to-Capacity Ratio (X)       0.019       0.287       0.289       0.418       0.278       0.077       0.836       0.368         Back of Queue (Q), ft/ln (95 th percentile)       6.8       159       155.4       125.6       144.4       24.4       292.1       25.3         Back of Queue (Q), veh/ln (95 th percentile)       0.3       6.3       6.2       5.0       5.8       1.0       11.7       1.0         Queue Storage Ratio (RQ) (95 th percentile)       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.0		<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Colorada Col	T. 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Green Ratio ( g/C )       0.43       0.43       0.43       0.43       0.57       0.60       0.19       0.19       0.03         Capacity ( c ), veh/h       545       752       732       593       1064       338       313       57         Volume-to-Capacity Ratio (X)       0.019       0.287       0.289       0.418       0.278       0.077       0.836       0.368         Back of Queue (Q), ft/ln (95 th percentile)       6.8       159       155.4       125.6       144.4       24.4       292.1       25.3         Back of Queue (Q), veh/ln (95 th percentile)       0.3       6.3       6.2       5.0       5.8       1.0       11.7       1.0         Queue Storage Ratio (RQ) (95 th percentile)       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00					<del> </del>			<u> </u>	ļ							<del>                                     </del>
Capacity ( c ), veh/h       545       752       732       593       1064       338       313       57         Volume-to-Capacity Ratio ( X )       0.019       0.287       0.289       0.418       0.278       0.077       0.836       0.368         Back of Queue ( Q ), ft/ln (95 th percentile)       6.8       159       155.4       125.6       144.4       24.4       292.1       25.3         Back of Queue ( Q ), veh/ln (95 th percentile)       0.3       6.3       6.2       5.0       5.8       1.0       11.7       1.0         Queue Storage Ratio ( RQ ) (95 th percentile)       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00	CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF					HARDE AFTER STANSON OF THE STANSON OF THE STANSON OF THE STANSON OF THE STANSON OF THE STANSON OF THE STANSON OF THE STANSON OF THE STANSON OF THE STANSON OF THE STANSON OF THE STANSON OF THE STANSON OF THE STANSON OF T		§	·			***************************************	The second of the second		es/statistationalitemeterm	1
Volume-to-Capacity Ratio ( X )       0.019       0.287       0.289       0.418       0.278       0.077       0.836       0.368         Back of Queue ( Q ), ft/ln ( 95 th percentile)       6.8       159       155.4       125.6       144.4       24.4       292.1       25.3         Back of Queue ( Q ), veh/ln ( 95 th percentile)       0.3       6.3       6.2       5.0       5.8       1.0       11.7       1.0         Queue Storage Ratio ( RQ ) ( 95 th percentile)       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.	Charles to the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro	*******			·		_	<u> </u>							*	
Back of Queue (Q), ft/ln (95 th percentile)       6.8       159       155.4       125.6       144.4       24.4       292.1       25.3         Back of Queue (Q), veh/ln (95 th percentile)       0.3       6.3       6.2       5.0       5.8       1.0       11.7       1.0         Queue Storage Ratio (RQ) (95 th percentile)       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5    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Back of Queue ( Q ), veh/ln ( 95 th percentile)       0.3       6.3       6.2       5.0       5.8       1.0       11.7       1.0       1.0         Queue Storage Ratio ( RQ ) ( 95 th percentile)       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00 <td< td=""><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td><del></del></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	· · · · · · · · · · · · · · · · · · ·						-			<del></del>						
Queue Storage Ratio ( RQ ) ( 95 th percentile)       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1.5       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Uniform Delay ( d 1 ), s/veh       17.0       19.3       19.3       12.2       10.0       35.3       41.2       49.8         Incremental Delay ( d 2 ), s/veh       0.1       1.0       1.0       0.2       0.7       0.0       10.9       1.5         Initial Queue Delay ( d 3 ), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0						***************************************		<u> </u>					<b>\</b>		·	
Incremental Delay ( d ₂ ), s/veh       0.1       1.0       1.0       0.2       0.7       0.0       10.9       1.5         Initial Queue Delay ( d ₃ ), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0		*****************	***************************************		***************************************			<u> </u>	······································							il normalised color be to a
Initial Queue Delay ( d ₃ ), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       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Control Delay ( d ), s/veh       17.1       20.2       20.3       12.4       10.6       S35.4       52.1       51.3       Evel of Service (LOS)         Level of Service (LOS)       B       C       C       B       B       D       D       D       D       D         Approach Delay, s/veh / LOS       20.2       C       11.4       B       50.6       D       51.3       D         Intersection Delay, s/veh / LOS       23.8       23.8       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D	**************************************							<u></u>	<u></u>				4		·	
Level of Service (LOS)       B       C       C       B       B       B       B       B       B       B       B       B       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D <td>Separation of the second second 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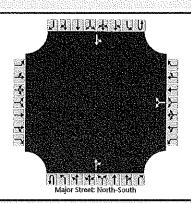
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Volume-to-Capa	<del></del>	fin (X)		0.018	0.20		0.361	· · · · · · · · · · · · · · · · · · ·				0.056	0.767		0.36		
THE RESERVE THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PA		/In ( 95 th percentile	)	5.9	110.	—( <del> </del>		!	_			13.5	199.8		25.		1,
		h/ln ( 95 th percenti		0.2	4.4	<del></del> {	4.2	6.7				0.5	8.0	ATKON 2215	1.0		www.montes
Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Commit		RQ) (95 th percent		0.00	0.00		0.00	0.00	1	_		0.00	0.00		0.0		
				13.5	14.9		9.3	8.0	<b></b>			39.8	44.0		49.		The state of the state of
	niform Delay ( d 1 ), s/veh cremental Delay ( d 2 ), s/veh			0.1	0.5		0.1	0.8	1			0.0	5.3		1.5		
	tial Queue Delay ( d ₃ ), s/veh			0.0	0.0		0.0	0.0		$\dashv$		0.0	0.0		0.0		Min-Minor
THE RESERVE THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF TH	ontrol Delay ( d ), s/veh		13.5	15.4		9.4	8.8	-			39.9	49.2		51.			
	evel of Service (LOS)			B	В	В	A	A	1	$\dashv$		D D	49.2 D		D	_	
				15.4	<u> </u>	В	9.0		А	_	48.6		D D	51.			<u> </u>
	pproach Delay, s/veh / LOS tersection Delay, s/veh / LOS			.0.7		og en men en men en en en en en en en en en en en en e	7.7		/ \		-10.0		***************************************	р 51. В	<u> </u>	L	
TO COSTON DON	- _J , 0, v0,	200	ľ							_11_							
Multimodal Res	sults				EB		l T	WB				NB			SE	}	
Pedestrian LOS		LOS		2.07		В	1.65		В	NB 2.15 B		В	2.14 B		3		
Bicycle LOS Sco			•	0.79		A	1.54		В		0.79		A	0.5	· · · · · · · · · · · · · · · · · · ·	Α	
							<b>17</b>									· · · · · ·	

	HCS Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	DHH	Intersection	Galloway Rd/Site Access
Agency/Co.	Horner & Canter Assoc	Jurisdiction	Bensalem Twp
Date Performed	3/29/2024	East/West Street	Site Access
Analysis Year	2025	North/South Street	Galloway Road
Time Analyzed	AM Peak Hour - Build	Peak Hour Factor	0.80
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	**************************************	W/A	



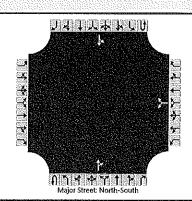
Vehicle Volumes and Adj	ustme	nts														
Approach		East	oound			West	bound		<u> </u>	North	bound			South	bound	
Movement	U	L	Τ	R	U	L	T	R	IJ	L	Т	R	U.	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration							LR					TR		LT		
Volume (veh/h)		24.7				2		4		A. 5	169	6	10.	3	263	
Percent Heavy Vehicles (%)						3		3						3		
Proportion Time Blocked	*	3.5														1.
Percent Grade (%)							0	·				2				
Right Turn Channelized		No. 12		· · · · · · · · ·												
Median Type   Storage				Undi	vided								<u> </u>		••••••	
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)				***************************************		7.1		6.2						4.3		
Critical Headway (sec)			1. 1.			6.43		6.23				***		4.33	****	T 1, 15.
Base Follow-Up Headway (sec)						3.0		3,1	-				<u> </u>	3.0	********	( <del></del>
Follow-Up Headway (sec)						3.03	11.11.	3.13			17.00		-	3.03	1 11 11	
Delay, Queue Length, and	d Leve	l of Se	ervice													
Flow Rate, v (veh/h)							8		£					4		
Capacity, c (veh/h)	12.1	41111		11.11.			730				11.		-1,-1	1001		
v/c Ratio							0.01							0.00		
95% Queue Length, Q ₉₅ (veh)			•	+. :	18, 18, 4		0.0		1,14	3.54				0.0		14 141 14
Control Delay (s/veh)							10.0				***************************************			8,6	0.0	·
Level of Service (LOS)					41.4		А		ing i				.,.,	Α	Α	
Approach Delay (s/veh)			.,		***************************************	10	0.0	Lanuaria	0.1			L				
Approach LOS	1			ava ji sirk		-	۸	A								

HCS Two-Way Stop-Control Report											
General Information		Site Information									
Analyst	DHH	Intersection	Galloway Rd/Site Access								
Agency/Co.	Horner & Canter Assoc	Jurisdiction	Bensalem Twp								
Date Performed	3/29/2024	East/West Street	Site Access								
Analysis Year	2025	North/South Street	Galloway Road								
Time Analyzed	PM Peak Hour - Build	Peak Hour Factor	0.80								
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25								
Project Description		36-philiphiliphi									



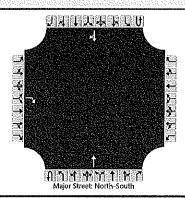
Approach		Fasth	ound			West	bound	.,		North	bound			South	bound	. ,
Movement	U	L	Т	R	U	L	T	R	U	I	Т	R	U	L	Т	R
Priority	. 0	10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	1	0	0	0	1	0	0	0	1	0
Configuration		0		U			LR		· ·			TR	V	LT		
	e die eer	N. 18 10 10	54.5	3.5%			LK	45			750			<b></b>	- nar	2 2 2 2
Volume (veh/h)						6		15		······································	358	14		7	225	
Percent Heavy Vehicles (%)			N. F. S.			3		3						3		
Proportion Time Blocked			4							L		l				
Percent Grade (%)						(	0		.,							
Right Turn Channelized		*				:								1111111		
Median Type   Storage			•	Undi	vided											
Critical and Follow-up He	adway	/s														
Base Critical Headway (sec)						7.1		6,2						4.3		
Critical Headway (sec)		1 1 1			1.4	6.43		6.23						4.33		
Base Follow-Up Headway (sec)	Variation 1010 1010 1110 1110 1110 1110 1110 11					3.0		3.1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				3,0	XIII Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carl	
Follow-Up Headway (sec)			14, 15			3.03	33.5	3.13			18 1941	Alb.	1. %	3.03	*****	
Delay, Queue Length, and	Level	of Se	rvice													
Flow Rate, v (veh/h)							26					*************		9		
Capacity, c (veh/h)	1111111	1,711		. * *	:::::		549							821		
v/c Ratio			***************************************				0.05							0.01		
95% Queue Length, Q ₉₅ (veh)		1 17 17		4.354	1.0	100	0.2			1, 11 N I			** v.	0.0	14.40	3113
Control Delay (s/veh)				Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Ma			11.9				***************************************			9.4	0.1	***************************************
Level of Service (LOS)			·····	1			В		5.50	1 11.		414.4	i i i i i i i i i i i i i i i i i i i	Α	Α	
Approach Delay (s/veh)					11	.9			6			0.4				
											А А					

	HCS Two-Way Sto	p-Control Report	
General Information		Site Information	
Analyst	DHH	Intersection	Galloway Rd/Site Access
Agency/Co.	Horner & Canter Assoc	Jurisdiction	Bensalem Twp
Date Performed	3/29/2024	East/West Street	Site Access
Analysis Year	2025	North/South Street	Galloway Road
Time Analyzed	SAT Peak Hour - Build	Peak Hour Factor	0.80
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description			



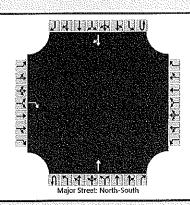
Approach		East	bound			West	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Τ	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration							LR					TR		LT		
Volume (veh/h)	7.799.30			14.15		4		11		1. I.i.s	195	9	5114.0	5	184	
Percent Heavy Vehicles (%)						3		3				·		3		
Proportion Time Blocked					1.4%	5.15					1981	1 14 14	74.51			
Percent Grade (%)				•			0			<u> </u>		<del> </del>		S	•	
Right Turn Channelized				14.4.4									13.4			
Median Type   Storage				Undi	vided											* ** , ** * * , **, **, **, **
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)						7.1		6,2						4,3		
Critical Headway (sec)		1 11 11 11 11			4.4.5	6.43		6,23	1 14.17	A. Francisco	14.1.1	1 12 1		4.33	177., 1	
Base Follow-Up Headway (sec)						3.0	,,.,.,	3.1						3.0		
Follow-Up Headway (sec)						3.03		3.13				W142-80-00-00-00-00-00-00-00-00-00-00-00-00-		3.03		
Delay, Queue Length, and	Leve	l of Se	ervice													
Flow Rate, v (veh/h)				,	,		19							6		
Capacity, c (veh/h)	\$1.5				* * * * .	1.5	753				4,7%	54.00A	18.74	972	11.00	1
v/c Ratio							0.02							0.01		
95% Queue Length, Q ₉₅ (veh)		. :	144.1				0.1		14.5		gyWe.			0.0		*1. *1.
Control Delay (s/veh)		···	A				9.9							8,7	0.1	
Level of Service (LOS)	1111111		11. 14.		. "		Α			Televisian	1 1 1 1			À	Α	
				***************************************								0.3				
Approach Delay (s/veh)						9	.9		l					0.	3	

HCS Two-Way Stop-Control Report											
General Information		Site Information									
Analyst	DHH	Intersection	Richlieu Rd/Site Access								
Agency/Co.	Horner & Canter Assoc	Jurisdiction	Bensalem Twp								
Date Performed	3/29/2024	East/West Street	Site Access								
Analysis Year	2025	North/South Street	Richlieu Road								
Time Analyzed	AM Peak Hour - Build	Peak Hour Factor	0.80								
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25								
Project Description	300										



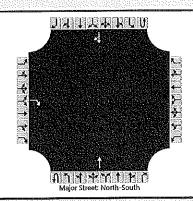
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	, MARIE
Movement	Ü	L	T	R	U	L	Т	R	U	L	т	R	U		Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	1		0	0	0	0	0	1	0	0	0	1	0
Configuration				R		Q				¥	T	·			/ <u>/</u>	TR
Volume (veh/h)		+ 444 ()	15.3	2					12.	4.4	124			19.11	335	4
Percent Heavy Vehicles (%)		·/····		3												***************************************
Proportion Time Blocked		14.70	1, 1, 1						1. 1.75	19.15				1, 1	1. 1.	1 1
Percent Grade (%)		(	)	7										A		L.
Right Turn Channelized		No Undivided														
Median Type   Storage	Undivided															
Critical and Follow-up Hea	adway	ys														
Base Critical Headway (sec)				6,2				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				***************************************				
Critical Headway (sec)	Fig. 5	47.50	Marija	6.23	14.25			*	11111	11.11.	200	11.73		3,442	11 (14.11)	14.73
Base Follow-Up Headway (sec)			.,,	3.1				***************************************	***************************************	(niii)))iidakkimimimimimimimimimimimimimimimimimimi	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Charles to the control of the				
Follow-Up Headway (sec)				3.13	19,000					************	****			-11 \	40.3%	100
Delay, Queue Length, and	Level	of Se	rvice													
Flow Rate, v (veh/h)				3												
Capacity, c (veh/h)			1.150	663			***************************************			3.50	7111			3,475,3		
v/c Ratio				0.00												
95% Queue Length, Q ₉₅ (veh)				0.0		1,14	1, 11				****	* *		17.1	144	14,53
Control Delay (s/veh)	×			10.4				,			·		CALLERON CONCERNATION OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PA	AND COLUMN		
Level of Service (LOS)				В					-4.	1.,. 1.1.			70.0	11.5%		
Approach Delay (s/veh)	10.4				·		*				. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Approach LOS		TAR MARK <mark>B</mark> ARAMBAR														

HCS Two-Way Stop-Control Report											
General Information		Site Information									
Analyst	DHH	Intersection	Richlieu Rd/Site Access								
Agency/Co.	Horner & Canter Assoc	Jurisdiction	Bensalem Twp								
Date Performed	3/29/2024	East/West Street	Site Access								
Analysis Year	2025	North/South Street	Richlieu Road								
Time Analyzed	PM Peak Hour - Build	Peak Hour Factor	0.80								
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25								
Project Description											



Approach	Eastbound				Westbound				Northbound				Southbound				
Movement	U	L,	Т	R	U	L	Ť	R	U	ii Lii	Τ	R	U	L	T	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	0	1		0	0	0	0	0	1	0	.0	0	1	0	
Configuration				R		:					T					TR	
Volume (veh/h)		in the right		6							420			5,5,7	228	7	
Percent Heavy Vehicles (%)				3								,					
Proportion Time Blocked	77.43	1, 1, 1, 1, 1	****											11111	14.11		
Percent Grade (%)		C	)														
Right Turn Channelized		N	o							* e ;							
Median Type   Storage				Undi	videđ												
Critical and Follow-up He	adwa	ys															
Base Critical Headway (sec)				6.2													
Critical Headway (sec)		72.54		6,23	, defe											11.54	
Base Follow-Up Headway (sec)				3.1													
Follow-Up Headway (sec)				3.13						Wint.				1980134	2 19 1	A MARIN	
Delay, Queue Length, and	Leve	l of Se	rvice														
Flow Rate, v (veh/h)				8													
Capacity, c (veh/h)	1000	14.5		789		* .	3					No. 1 mg	2.47	10.60			
v/c Ratio				0.01		,											
95% Queue Length, Q ₉₅ (veh)		78.33	1, 1, 1	0,0				TA 4 TA 14.		1.15				194,541	(mani)	50.40	
Control Delay (s/veh)				9.6				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
Level of Service (LOS)		14.7		Α	:: **										2 12 13	10 E 10 1	
	9.6			<u> </u>													
Approach Delay (s/veh)		9.	6														

	HCS Two-Way S	top-Control Report	
General Information		Site Information	
Analyst	DHH	Intersection	Richlieu Rd/Site Access
Agency/Co.	Horner & Canter Assoc	Jurisdiction	Bensalem Twp
Date Performed	3/29/2024	East/West Street	Site Access
Analysis Year	2025	North/South Street	Richlieu Road
Time Analyzed	SAT Peak Hour - Build	Peak Hour Factor	0.80
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description			



Approach	Eastbound				Westbound				Northbound				Southbound				
Movement	U	L	Т	R	Ų	L	Т	R	U	L	Ť	R	U	L	े र	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes	[8] Ya	0	0	1		0	0	0	0	0	1	0	0	0	1	0	
Configuration				R							Т					TR	
Volume (veh/h)				5	·	1121				g iş dir.	219				188	7	
Percent Heavy Vehicles (%)				3													
Proportion Time Blocked	1014																
Percent Grade (%)		(	0														
Right Turn Channelized	14 15	. N	lo														
Median Type   Storage				Undi	vided												
Critical and Follow-up He	adwa	ys															
Base Critical Headway (sec)				6.2													
Critical Headway (sec)	NUM	MAN		6.23													
Base Follow-Up Headway (sec)				3.1								<u></u>				ļ	
Follow-Up Headway (sec)				3.13	· ··.									14.174			
Delay, Queue Length, and	Leve	l of S	ervice														
Flow Rate, v (veh/h)				6				<u> </u>				ļ				<u></u>	
Capacity, c (veh/h)	73.75		NJA J	843											1000		
v/c Ratio				0.01								<u> </u>				<u> </u>	
95% Queue Length, Q ₉₅ (veh)	1,100			0.0	F-1												
Control Delay (s/veh)				9.3													
Level of Service (LOS)	- 1 T A		1 1	Α			111			The sec					1 1 1 1	<u> </u>	
Approach Delay (s/veh)		9	).3														
Approach LOS	A				1.5		7:3		1 1					MARKE.			