

PROJECT DESCRIPTION

1. GENERAL
The project consists of the installation of the traffic control system for the intersection of Van Dusen Road and Cortez Road. The project includes the installation of traffic signals, traffic lights, and traffic signs. The project also includes the installation of a traffic camera and a traffic light controller.

2. SPECIFICATIONS

The traffic control system shall be a fully automatic system. The system shall be capable of controlling the traffic signals for all phases of traffic. The system shall be capable of controlling the traffic lights for all phases of traffic. The system shall be capable of controlling the traffic signs for all phases of traffic. The system shall be capable of controlling the traffic camera and traffic light controller for all phases of traffic.

3. MATERIALS

All materials shall be of the highest quality and shall be approved by the Engineer. The materials shall be of the highest quality and shall be approved by the Engineer. The materials shall be of the highest quality and shall be approved by the Engineer.

4. CONSTRUCTION

The construction shall be in accordance with the specifications and shall be approved by the Engineer. The construction shall be in accordance with the specifications and shall be approved by the Engineer.

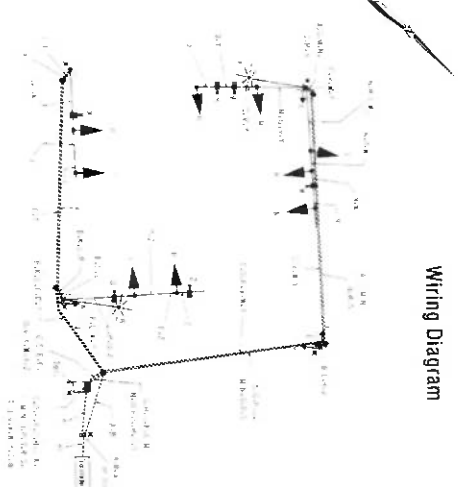
ELECTRICAL

Table with 5 columns: Quantity, Unit, Description, Specification, and Notes. It lists electrical components like switches, relays, and wiring for the traffic control system.

Phase Chart

Phase Chart table showing traffic signal timing for various phases (Northbound, Southbound, Eastbound, Westbound) including red, yellow, and green durations.

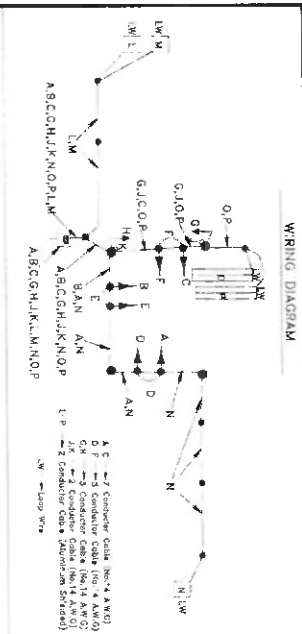
Wiring Diagram



Van Dusen Road at Cortez Road

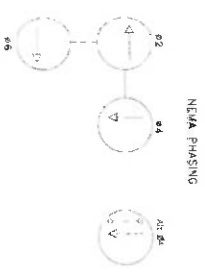
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
PRINCE GEORGE COUNTY, MARYLAND
(General Information Page)
Scale: 1/4" = 1'-0"
DATE: 11/11/03

Logos for 'The Traffic Group' and 'PRINCE GEORGE COUNTY, MARYLAND'.

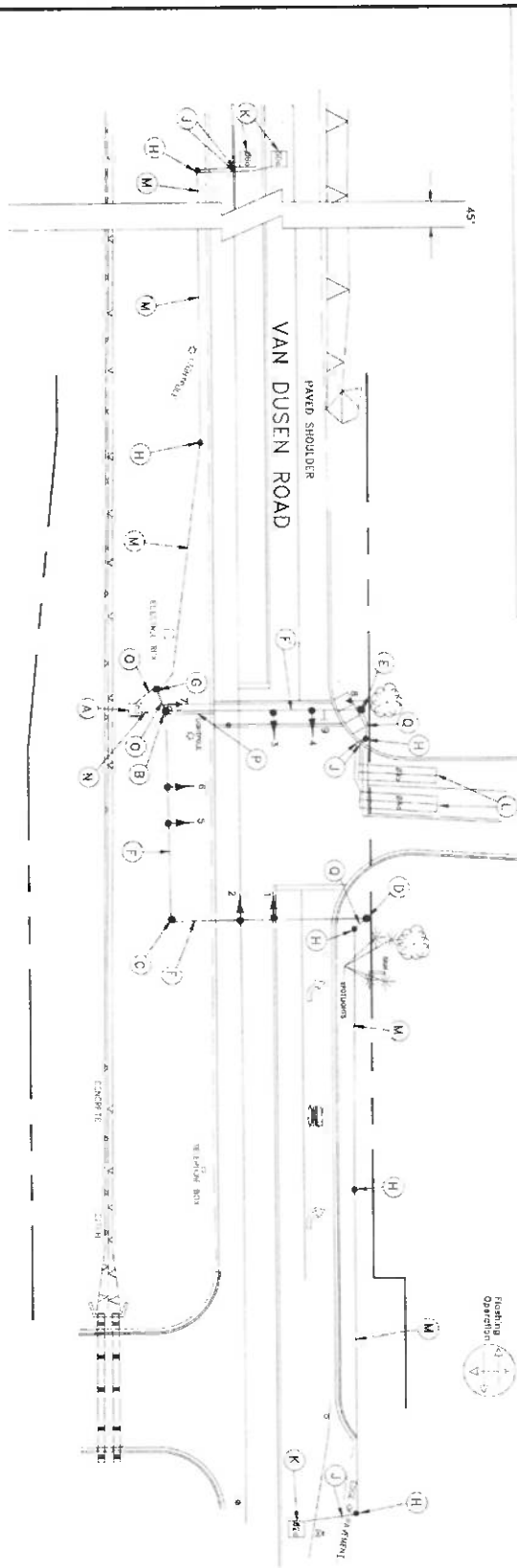


LOOP WIRING

CHANNEL	P32	P33	CHANNEL	B/LOOP
1	850	850	1	not used
2	850	850	2	not used
3	850	850	3	500/4x3
4	850	850	4	250/4x3



- 1) Phases associated by a dashed line will operate concurrently.
- 2) Phases associated by a solid line will not operate concurrently.

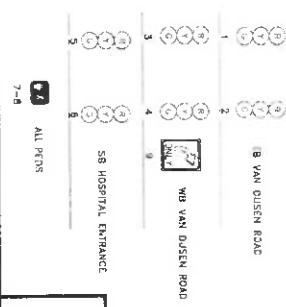


CONSTRUCTION NOTES

- A. INSTALL BASE-MOUNTED CABINET AND CONTROLLER, METER SOCKET DISCONNECT SWITCH AND ALL THE NECESSARY EQUIPMENT FOR AN UNDERGROUND ELECTRICAL AND TELEPHONE SERVICE. (NOTE: 1PC-4" PVC ELBOW)
- B. INSTALL 30" STEEL STRAIN POLE, PEDESTRIAN SIGNAL HEAD PUSHBUTTON AND SIGN. (NOTE: 1PC-4" PVC ELBOW)
- C. INSTALL 30" STEEL STRAIN POLE. (NOTE: 1PC-3" PVC ELBOW)
- D. INSTALL 30" STEEL STRAIN POLE. (NOTE: 1PC-3" PVC ELBOW)
- E. PUSHBUTTON AND SIGN. (NOTE: 1PC-3" PVC ELBOW)
- F. INSTALL SPANWIRE, SIGNAL HEADS AND ALL NECESSARY WIRING.
- G. INSTALL HANDBOX.

- H. INSTALL SPLICEBOX.
- J. INSTALL 1" SLEEVE FOR DETECTOR FOR LEAD-IN (ONE PER LOOP)
- K. INSTALL 6" X 6" VEHICLE LOOP DETECTOR. (3 TURNS)
- L. INSTALL 6" X 6" QUADRUPOLE VEHICLE LOOP DETECTOR. (2-4-2 TURNS)
- M. INSTALL 2" PVC CONDUIT-TRENCHED.
- N. ROBE UNDERGROUND ELECTRICAL SERVICE.
- O. INSTALL 4" PVC CONDUIT-TRENCHED.
- P. INSTALL SIDEWALK AS NEEDED
- Q. INSTALL 3" PVC CONDUIT-TRENCHED.

SIGNAL DISPLAY



DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
 FRANCIS GEORGE'S COURT, MARYLAND

VAN DUSEN ROAD AND LAUREL HOSPITAL ENTRANCE

SCALE: 1"=200'

APPROVED: [Signature] DATE: 11/17/80

DESIGNED BY: [Signature] DATE: 11/17/80

DRAWN BY: [Signature] DATE: 11/17/80

CHECKED BY: [Signature] DATE: 11/17/80

CONTRACTOR: [Signature] DATE: 11/17/80

CONTRACT NO.: [Signature] DATE: 11/17/80

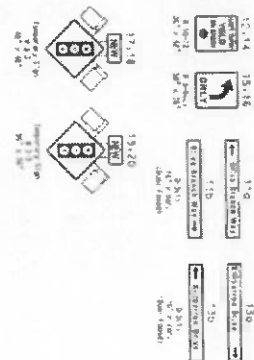
PROJECT NO.: [Signature] DATE: 11/17/80

DATE: 11/17/80



North Arrow

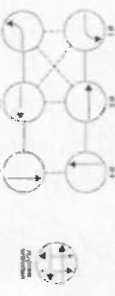
PROPOSED SIGNALS



PROPOSED SIGNALS



PROPOSED SIGNALS



1. Signal shall be 15' x 15' or 15' x 20'.
 2. Signal shall be 15' x 15' or 15' x 20'.
 3. Signal shall be 15' x 15' or 15' x 20'.

CONSTRUCTION DETAILS

- A. Signal shall be 15' x 15' or 15' x 20'.
- B. Signal shall be 15' x 15' or 15' x 20'.
- C. Signal shall be 15' x 15' or 15' x 20'.
- D. Signal shall be 15' x 15' or 15' x 20'.
- E. Signal shall be 15' x 15' or 15' x 20'.
- F. Signal shall be 15' x 15' or 15' x 20'.
- G. Signal shall be 15' x 15' or 15' x 20'.
- H. Signal shall be 15' x 15' or 15' x 20'.
- I. Signal shall be 15' x 15' or 15' x 20'.
- J. Signal shall be 15' x 15' or 15' x 20'.
- K. Signal shall be 15' x 15' or 15' x 20'.
- L. Signal shall be 15' x 15' or 15' x 20'.
- M. Signal shall be 15' x 15' or 15' x 20'.
- N. Signal shall be 15' x 15' or 15' x 20'.
- O. Signal shall be 15' x 15' or 15' x 20'.
- P. Signal shall be 15' x 15' or 15' x 20'.
- Q. Signal shall be 15' x 15' or 15' x 20'.
- R. Signal shall be 15' x 15' or 15' x 20'.
- S. Signal shall be 15' x 15' or 15' x 20'.
- T. Signal shall be 15' x 15' or 15' x 20'.
- U. Signal shall be 15' x 15' or 15' x 20'.
- V. Signal shall be 15' x 15' or 15' x 20'.
- W. Signal shall be 15' x 15' or 15' x 20'.
- X. Signal shall be 15' x 15' or 15' x 20'.
- Y. Signal shall be 15' x 15' or 15' x 20'.
- Z. Signal shall be 15' x 15' or 15' x 20'.

GEOMETRIC LEGEND

EXISTING GEOMETRICS

PROPOSED GEOMETRICS

UTILITY LEGEND

EXISTING UTILITIES

PROPOSED UTILITIES

ASPHALT CURBS

CONCRETE CURBS

DATE: 10/15/10
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]



The Traffic Group

10000 Wilshire Blvd., Suite 1000
 Beverly Hills, CA 90210
 Tel: 310.440.0000
 Fax: 310.440.0001
 www.thetrafficgroup.com

Van Dusen Rd. at Olive Branch Way/Killbaron Dr.

Traffic Signal Plan

NO.	REVISION	DATE
1	ISSUED	10/15/10
2	REVISION	
3	REVISION	
4	REVISION	
5	REVISION	
6	REVISION	
7	REVISION	
8	REVISION	
9	REVISION	
10	REVISION	

DATE: 10/15/10
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]

NOTES

1. Signal shall be 15' x 15' or 15' x 20'.
2. Signal shall be 15' x 15' or 15' x 20'.
3. Signal shall be 15' x 15' or 15' x 20'.
4. Signal shall be 15' x 15' or 15' x 20'.
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10. Signal shall be 15' x 15' or 15' x 20'.
11. Signal shall be 15' x 15' or 15' x 20'.
12. Signal shall be 15' x 15' or 15' x 20'.
13. Signal shall be 15' x 15' or 15' x 20'.
14. Signal shall be 15' x 15' or 15' x 20'.
15. Signal shall be 15' x 15' or 15' x 20'.
16. Signal shall be 15' x 15' or 15' x 20'.
17. Signal shall be 15' x 15' or 15' x 20'.
18. Signal shall be 15' x 15' or 15' x 20'.
19. Signal shall be 15' x 15' or 15' x 20'.
20. Signal shall be 15' x 15' or 15' x 20'.

PHASE CHART

The chart below is the result of the traffic study conducted for the intersection of Van Dusen Rd. and Olive Branch Way. The chart shows the sequence of phases for the intersection during the peak hour. The phases are numbered 1 through 11. The chart is based on the traffic study data provided in the report.

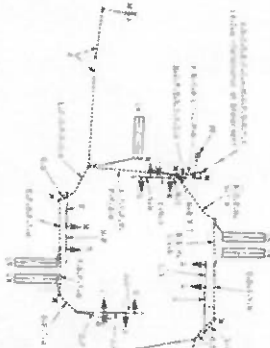
EQUIPMENT LIST

Equipment to be furnished and/or installed by the contractor.

Quantity	Make	Model	Description	Quantity	Make	Model	Description
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11

Phase	1	2	3	4	5	6	7	8	9	10	11
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											

Wiring Diagram



TRAFFIC SIGNAL PLAN

- 1 - Van Dusen Rd. at Olive Branch Way
- 2 - Olive Branch Way at Van Dusen Rd.
- 3 - Van Dusen Rd. at Olive Branch Way
- 4 - Olive Branch Way at Van Dusen Rd.
- 5 - Van Dusen Rd. at Olive Branch Way
- 6 - Olive Branch Way at Van Dusen Rd.
- 7 - Van Dusen Rd. at Olive Branch Way
- 8 - Olive Branch Way at Van Dusen Rd.
- 9 - Van Dusen Rd. at Olive Branch Way
- 10 - Olive Branch Way at Van Dusen Rd.
- 11 - Van Dusen Rd. at Olive Branch Way
- 12 - Olive Branch Way at Van Dusen Rd.

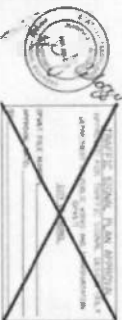
Van Dusen Rd. at Olive Branch Way

Traffic Signal Plan

NO.	DESCRIPTION	DATE
1	Van Dusen Rd. at Olive Branch Way	1/1/19
2	Van Dusen Rd. at Olive Branch Way	1/1/19
3	Van Dusen Rd. at Olive Branch Way	1/1/19
4	Van Dusen Rd. at Olive Branch Way	1/1/19
5	Van Dusen Rd. at Olive Branch Way	1/1/19
6	Van Dusen Rd. at Olive Branch Way	1/1/19
7	Van Dusen Rd. at Olive Branch Way	1/1/19
8	Van Dusen Rd. at Olive Branch Way	1/1/19
9	Van Dusen Rd. at Olive Branch Way	1/1/19
10	Van Dusen Rd. at Olive Branch Way	1/1/19
11	Van Dusen Rd. at Olive Branch Way	1/1/19
12	Van Dusen Rd. at Olive Branch Way	1/1/19

DATE: 1/1/19
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]
 SCALE: AS SHOWN
 PROJECT: [Project Name]

DATE: 1/1/19
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]
 SCALE: AS SHOWN
 PROJECT: [Project Name]



The Traffic Group
 1000 1st Ave. N.E.
 Seattle, WA 98102
 Phone: (206) 467-1234
 Fax: (206) 467-5678
 Email: info@thetrafficgroup.com

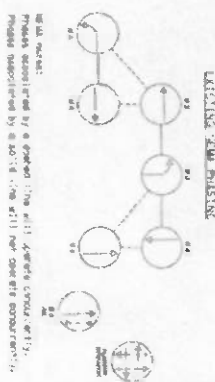
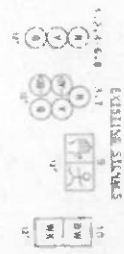
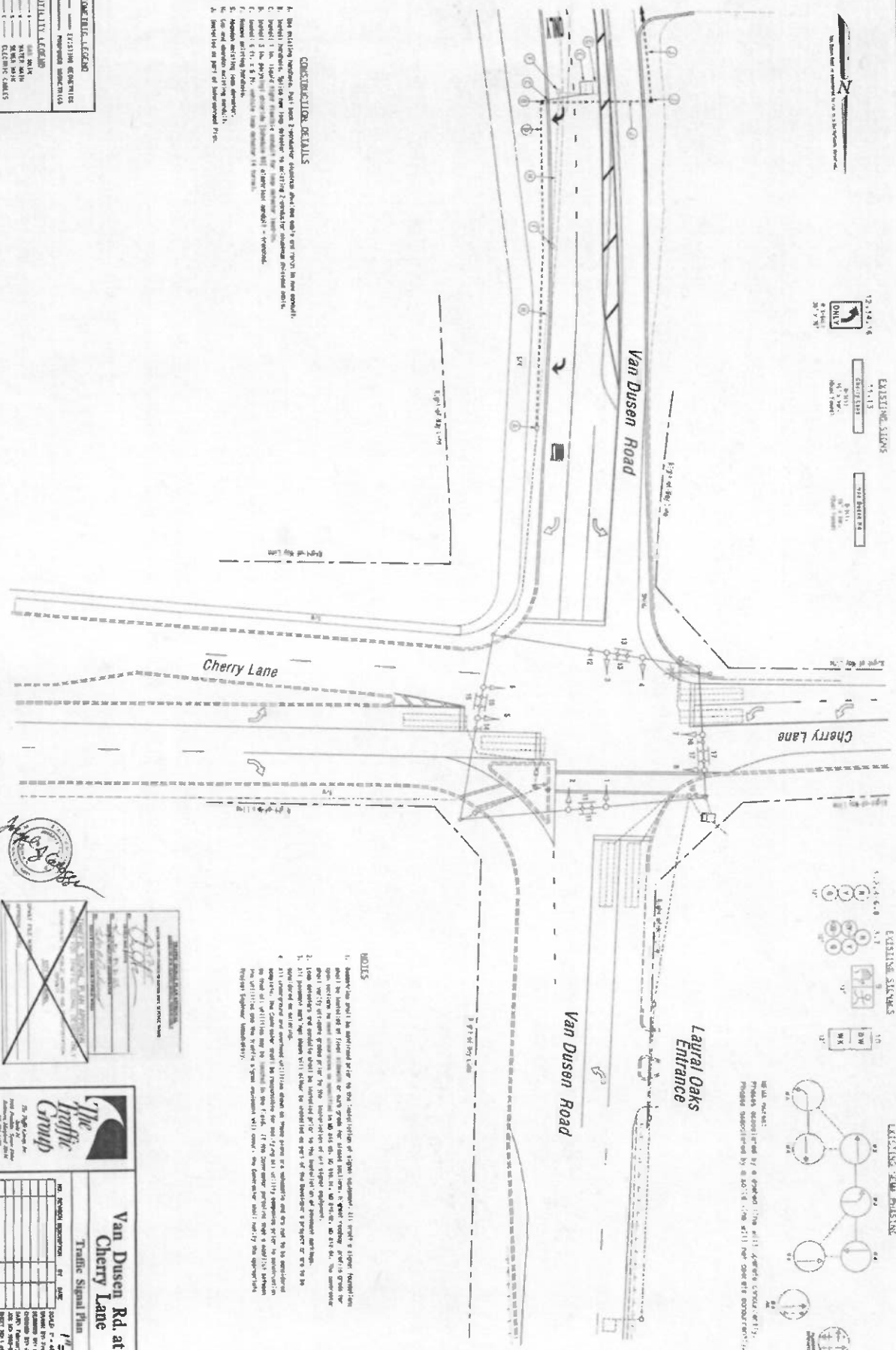
GENERAL LEGEND

PROJECT NO. 17-113
 PROJECT NAME
 PROJECT LOCATION

QUALITY LEGEND

1. ALL WORK
 2. ALL WORK
 3. ALL WORK
 4. ALL WORK
 5. ALL WORK
 6. ALL WORK
 7. ALL WORK
 8. ALL WORK
 9. ALL WORK
 10. ALL WORK

- CONSTRUCTION DETAILS**
1. See existing traffic signal and existing signal cabinet for location and details.
 2. See existing traffic signal and existing signal cabinet for location and details.
 3. See existing traffic signal and existing signal cabinet for location and details.
 4. See existing traffic signal and existing signal cabinet for location and details.
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 9. See existing traffic signal and existing signal cabinet for location and details.
 10. See existing traffic signal and existing signal cabinet for location and details.



- NOTES**
1. See existing traffic signal and existing signal cabinet for location and details.
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 8. See existing traffic signal and existing signal cabinet for location and details.
 9. See existing traffic signal and existing signal cabinet for location and details.
 10. See existing traffic signal and existing signal cabinet for location and details.



TRAFFIC SIGNAL PLAN

DATE: 1/11/17

PROJECT NO. 17-113

PROJECT NAME

PROJECT LOCATION



**Van Dusen Rd. at
Cherry Lane**

Traffic Signal Plan

1/11/17

NO.	REVISION	DATE	BY	CHKD.

Prepared by: [Name]
 Checked by: [Name]
 Date: 1/11/17

PROJECT DESCRIPTION

1. **OBJECTIVE**
 The project consists of the installation of existing traffic signals at the intersection of Van Dusen Rd and Cherry Lane. The project is to be completed by the end of 2010.

2. **SCOPE OF WORK**
 The project includes the installation of traffic signals, traffic lights, and traffic signs at the intersection of Van Dusen Rd and Cherry Lane. The project also includes the installation of traffic cameras and the installation of traffic lights at the intersection of Van Dusen Rd and Cherry Lane.

COMMENTS

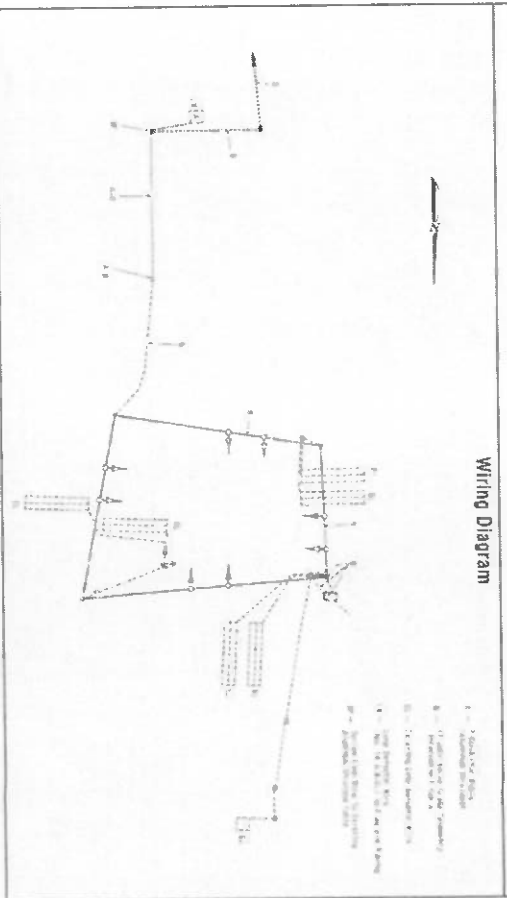
3. **REVISIONS**

Rev. No.	Date	Description
1	10/10/09	Initial design
2	11/10/09	Revised design
3	12/10/09	Final design
4	01/10/10	Construction documents
5	02/10/10	As-built drawings

Phase Chart

Phase	Start	End	Duration
1	10/10/09	11/10/09	1 month
2	11/10/09	12/10/09	1 month
3	12/10/09	01/10/10	1 month
4	01/10/10	02/10/10	1 month
5	02/10/10	03/10/10	1 month

Wiring Diagram



Professional Engineer
 License No. 12345
 State of Washington
 Date: 10/10/09



TRAFFIC SIGNALS
 VAN DUSEN RD AND CHERRY LANE
 SEATTLE, WA

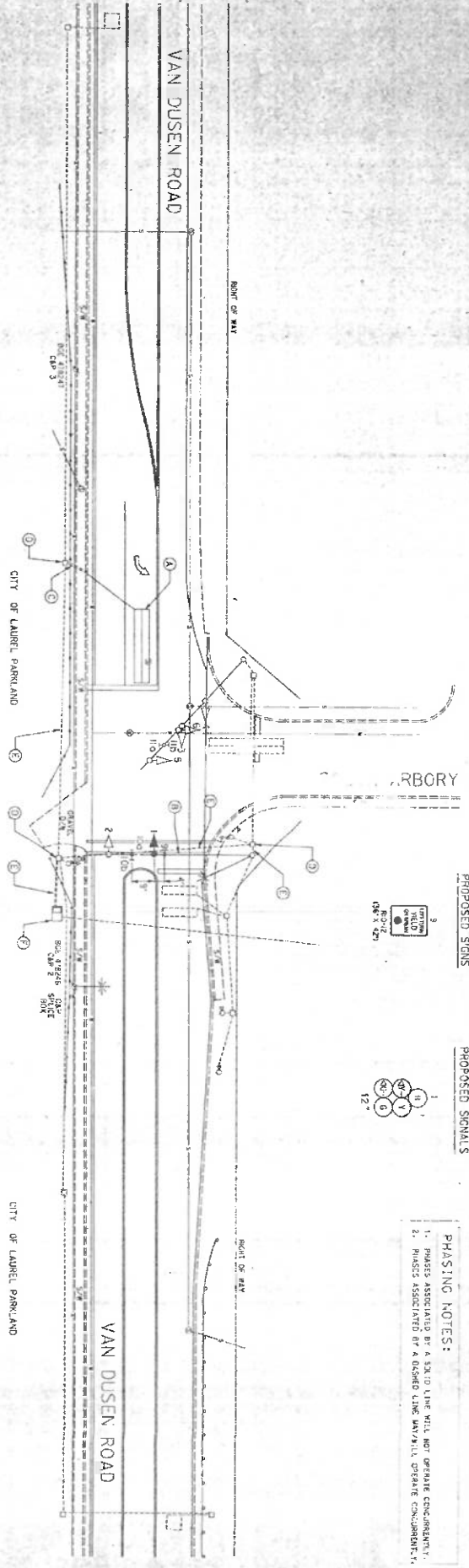
The Traffic Group
 1234 5th Ave
 Seattle, WA 98101
 Phone: 206-123-4567
 Fax: 206-123-4568
 Email: info@thetrafficgroup.com

Van Dusen Rd at Cherry Lane
 Traffic Signal Plan

No.	Revision	Description	Date
1		Initial Design	10/10/09
2		Revised Design	11/10/09
3		Final Design	12/10/09
4		Construction Documents	01/10/10
5		As-Built Drawings	02/10/10



NOTE: VAN DUSEN ROAD IS ASSIGNED TO ROW
BY A NORTHBOUND VEHICLE



- CONSTRUCTION NOTES:**
- Install 6' x 6' x 20' 14-gauge pipe pile in... (text partially obscured)
 - Remove existing 24-gauge steel sheet piling... (text partially obscured)
 - Install 1 1/2" diameter, 14-gauge, 10' long... (text partially obscured)
 - Use existing pile... (text partially obscured)

- GENERAL NOTES:**
- This plan reflects only those underground utilities... (text partially obscured)
 - Any modification to this subject shall be... (text partially obscured)
 - Install proposed loop detector... (text partially obscured)
 - Unless otherwise noted existing equipment will be used.

PROPOSED SIGNS

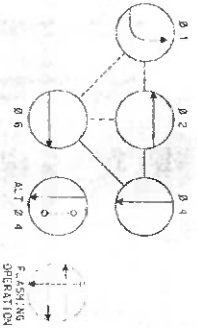
PROPOSED SIGNALS

EXISTING SIGNALS

EXISTING SIGNS

South Arbor-y Ld.
Van Dusen Rd.

NEMA PHASING



- PHASING NOTES:**
- PHASES ASSIGNED BY A SIGNAL LAMP WILL NOT OPERATE CONCURRENTLY.
 - PHASES ASSIGNED BY A SIGNAL LAMP MAY NOT OPERATE CONCURRENTLY.

GEOMETRIC LEGEND

PROPOSED	EXISTING
ROADWAY	ROADWAY
LAND	LAND
UTILITY	UTILITY
TELEPHONE	TELEPHONE
WATER	WATER
CABLE	CABLE

T RAFFIC CONCEPTS, INC.
325 Cambridge Road
Salem, MA 01970
Cambridge, MA 02142
(617) 923-7101

DATE	REVISION
01/15/20	ISSUE FOR PERMIT
01/15/20	ISSUE FOR PERMIT
01/15/20	ISSUE FOR PERMIT

CITY OF LAUREL

SIGNALIZATION PLAN

VAN DUSEN ROAD AND SOUTH ARBORY LANE

PRINCE GEORGES COUNTY

DRAWING NO. 1504

SHEET NO. 1 OF 2

AS SHOWN THE VAN DUSEN ROAD
TRAVEL IN A NORTH-SOUTH DIRECTION.



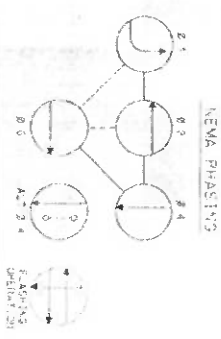
ALAN DRIVE

VAN DUSEN ROAD

ARBORY COURT

WINDMILL BLVD

VAN DUSEN ROAD



PHASING NOTES:

- PHASE ASSIGNED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
- PHASE ASSIGNED BY A DASHED LINE MAY/BE OPERATE CONCURRENTLY.

CONSTRUCTION NOTES:

- Install 6' x 6' x 24" concrete ring loop between Arched 14, 14, in station 14+00 to 14+50.0' W.C. W.
- Remove existing 24" concrete approach and install existing approach and set of electric road arm.
- Use existing concrete.
- Use existing concrete.
- Use existing concrete.

GENERAL NOTES:

- The 1/4" scale plan view of the proposed intersection is shown for information only. The actual construction shall be as shown on the construction drawings.
- Any modification to this plan shall be approved by the engineer in charge of the project.
- Install proposed concrete 14" diameter ring loop.
- Install concrete 14" diameter ring loop.

SYMBOLS

CONSTRUCTION LEGEND

PROPOSED	EXISTING
ROADWAY	ROADWAY
UTILITY	UTILITY
LANDSCAPE	LANDSCAPE
STRUCTURE	STRUCTURE
ADDITIONAL	ADDITIONAL
DELETED	DELETED
REMOVED	REMOVED
ADDED	ADDED
CHANGED	CHANGED
OTHER	OTHER

TRAFFIC CONCEPTS, INC.
 325 Campbell Road
 Suite E
 Concord, CA 94521
 (415) 923-7131

DATE	DESCRIPTION
10/20/99	ISSUED FOR PERMITS
10/20/99	ISSUED FOR PERMITS
10/20/99	ISSUED FOR PERMITS
10/20/99	ISSUED FOR PERMITS

CITY OF LAUREL
SIGNALIZATION PLAN
VAN DUSEN ROAD AND ARBORY COURT

PROJECT NUMBER: 10-20-99
 SHEET NO. 1 OF 2



PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF VAN DUSEN ROAD AND ABBOTT COURT IN PRINCE GEORGE'S COUNTY. VAN DUSEN ROAD IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

CONROLLER OPERATION

THE EXISTING EIGHT-PHASE FULLY ACTUATED NEAR CONTROLLER HOUSED IN A PALE MOUNTED CABINET WILL BE USED. THE INTERSECTION OPERATION WILL BE CHANGED TO PROVIDE AN EXCLUSIVE PERMISSIVE LEFT TURN PHASE FOR NORTHBOUND VAN DUSEN ROAD.

EQUIPMENT LIST

* ITEM NO.	QUANTITY	DESCRIPTION
802	125 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL LOOP DETECTOR
803	10 LF	FURNISH AND INSTALL 1/2" ALUMINUM TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
804	425 LF	FURNISH AND INSTALL LOOP WIRE ENGAGED IN 1/2" IN. FLEXIBLE TUBING (NO. 14 AWG.)
805	160 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED
806	20 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG.)
807	20 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG.)
808	70 LF	FURNISH AND INSTALL 1/2" ONE-WAY, FIVE-SECTION SIGNAL HEAD (NO. 14 AWG.)
809	1 EA	FURNISH AND INSTALL MAST ARM MOUNT
810	1 EA	FURNISH AND INSTALL RIGID 1/2" SINO (36" X 42") MAST ARM MOUNT
811	1 EA	FURNISH AND INSTALL LOOP DETECTOR AMPLIFIER

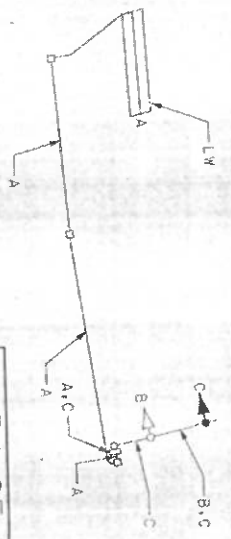
* ITEM NO. CORRESPOND TO THE S&A AREAWIDE CONTRACT.

PHASE CHART

PHASE	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 - A	A	B	C	LW	A	B	C	LW	A	B	C	LW
PHASE 2 - B	A	B	C	LW	A	B	C	LW	A	B	C	LW
PHASE 3 - C	A	B	C	LW	A	B	C	LW	A	B	C	LW
PHASE 4 - LW	A	B	C	LW	A	B	C	LW	A	B	C	LW
PHASE 5 - A	A	B	C	LW	A	B	C	LW	A	B	C	LW
PHASE 6 - B	A	B	C	LW	A	B	C	LW	A	B	C	LW
PHASE 7 - C	A	B	C	LW	A	B	C	LW	A	B	C	LW
PHASE 8 - LW	A	B	C	LW	A	B	C	LW	A	B	C	LW
PHASE 9 - A	A	B	C	LW	A	B	C	LW	A	B	C	LW
PHASE 10 - B	A	B	C	LW	A	B	C	LW	A	B	C	LW
PHASE 11 - C	A	B	C	LW	A	B	C	LW	A	B	C	LW
PHASE 12 - LW	A	B	C	LW	A	B	C	LW	A	B	C	LW

WIRE KEY

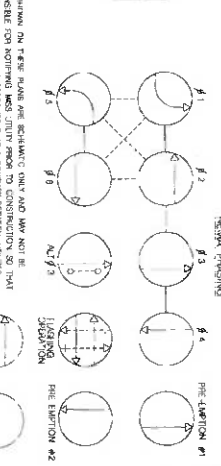
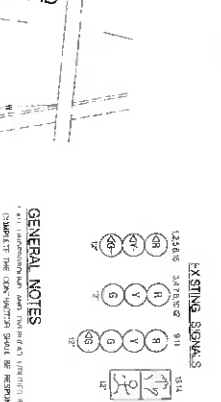
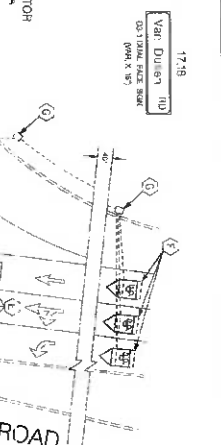
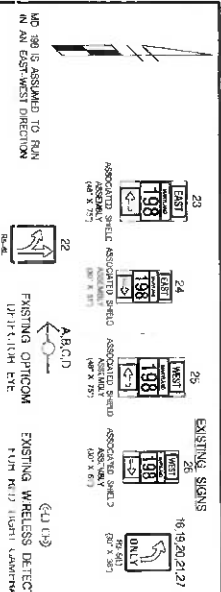
- A - 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
- B - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG.)
- C - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG.)
- LW - LOOP WIRE (NO. 14 AWG.)



TRAFFIC CONCEPTS, INC.
 395 CORP. 1116 Road
 Suite E
 Greenbelt, MD 21034
 (410) 923-7101

CITY OF LAUREL
 GENERAL INFORMATION SHEET
 VAN DUSEN ROAD AND ABBOTT COURT

PROJECT NO. 20-0819
 SHEET NO. 2 OF 2



BY: AMYM

CONSTRUCTION DETAILS

- INSTALL VIDEO DETECTION CAMERA ON EXISTING SIGNAL POLE.
- INSTALL VIDEO DETECTION CAMERA ON 35' CAMERA ARM ON EXISTING SIGNAL POLE. USE STANDARD NO. 818-22.
- USE EXISTING CONDUIT.
- USE EXISTING HANDHOLE.
- DISCONNECT AND ABANDON EXISTING LOOP DETECTORS.
- REMOVE EXISTING HANDHOLE, CAP AND ABANDON EXISTING CONDUIT.

GENERAL NOTES

- VIDEO CAMERA LOCATION / ATTACHING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BE RELOCATED TO THE APPROPRIATE LOCATION.
- THE CONDUIT SHALL BE RECESSED FOR REMOVAL.
- THE OPERATOR SHALL BE RESPONSIBLE FOR MAINTAINING SIGNAL OPERATION DURING THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
- ALL MODIFICATIONS TO THE CONTROLLER CABINET WILL BE DONE BY THE SHA SIGNAL OPERATIONS.

DATE	BY	REVISION
10/20/20	AMYM	ISSUED FOR PERMIT
10/20/20	AMYM	ISSUED FOR PERMIT
10/20/20	AMYM	ISSUED FOR PERMIT
10/20/20	AMYM	ISSUED FOR PERMIT
10/20/20	AMYM	ISSUED FOR PERMIT

TRAFFIC SIGNAL PLAN

SCALE: 1" = 20'

DATE: 10/20/20

DESIGNED BY: AMYM

CHECKED BY: M. SCHMIDT

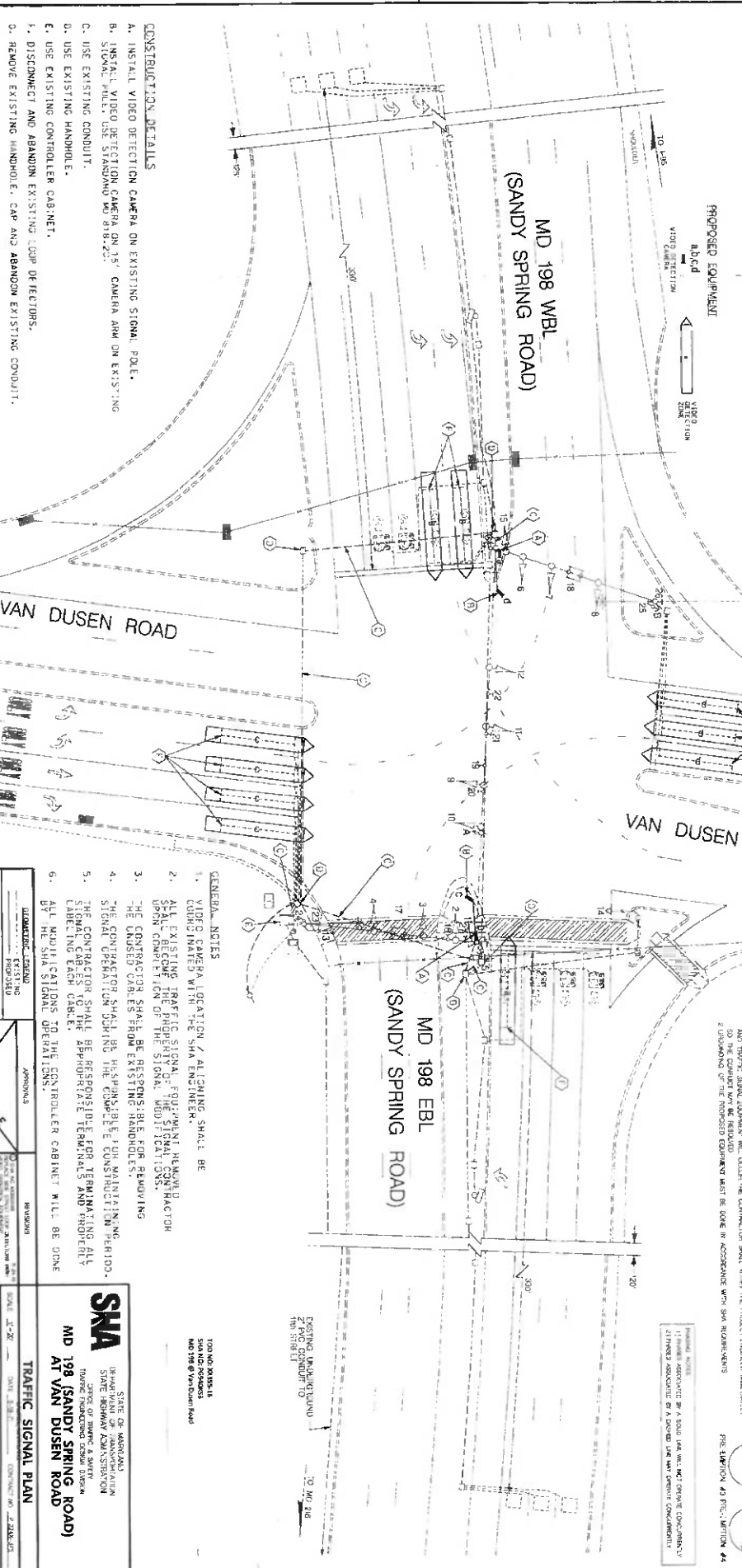
DRAWN BY: M. SCHMIDT

DATE: 10/20/20

PROJECT NO.: 198-279

DATE: 10/20/20

SHEET NO.: 1 OF 3



TRAFFIC SIGNAL PLAN

SCALE: 1" = 20'

DATE: 10/20/20

DESIGNED BY: AMYM

CHECKED BY: M. SCHMIDT

DRAWN BY: M. SCHMIDT

DATE: 10/20/20

PROJECT NO.: 198-279

DATE: 10/20/20

SHEET NO.: 1 OF 3

TRAFFIC SIGNAL PLAN

SCALE: 1" = 20'

DATE: 10/20/20

DESIGNED BY: AMYM

CHECKED BY: M. SCHMIDT

DRAWN BY: M. SCHMIDT

DATE: 10/20/20

PROJECT NO.: 198-279

DATE: 10/20/20

SHEET NO.: 1 OF 3

PROJECT DESCRIPTION

GRANVA
 THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 198 AND VAN DUSEN ROAD IN PRINCE GEORGE'S COUNTY. THE EXISTING TRAFFIC CONTROL SIGNAL AT THIS INTERSECTION IS A SEMI-CYCLIC CONTROL WITH A LOOP DETECTION ON THE SIDE STREETS. THE PROPOSED TRAFFIC CONTROL SIGNAL AT THIS INTERSECTION WILL BE A SEMI-CYCLIC CONTROL WITH A LOOP DETECTION ON THE MAIN LINES. THE PROPOSED TRAFFIC CONTROL SIGNAL AT THIS INTERSECTION WILL BE A SEMI-CYCLIC CONTROL WITH A LOOP DETECTION ON THE MAIN LINES. THE PROPOSED TRAFFIC CONTROL SIGNAL AT THIS INTERSECTION WILL BE A SEMI-CYCLIC CONTROL WITH A LOOP DETECTION ON THE MAIN LINES.

PROJECT CONTACTS

CONTACT PERSONS FOR SHA DISTRICT 3:
 MR. RICHARD DUFF, SR., CHIEF, TRAFFIC OPERATIONS
 410-787-7630
 MR. ROBERT SWIDER, ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
 410-787-7630
 MR. ED RUDENITZ, ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
 410-787-7630
 MR. VICTOR GRAFFON, UTILITY ENGINEER
 PHONE: 301-513-7350

CONTACT PERSONS FOR SHA OFFICE OF TRAFFIC AND SAFETY:
 MR. RICHARD DUFF, SR., CHIEF, TRAFFIC OPERATIONS
 410-787-7630
 MR. ROBERT SWIDER, ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
 410-787-7630
 MR. ED RUDENITZ, ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
 410-787-7630
 MR. VICTOR GRAFFON, UTILITY ENGINEER
 PHONE: 301-513-7350

PHASE CHART

PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 AND 5 CHANGE TO PHASES 1 AND 6 OR 2 AND 5 OR 2 AND 6	+G	+G	R	R	+G	+G	R	R	+G	+G	R	R	+G	+G	R
PHASE 1 AND 6	+G	+G	R	R	+G	+G	R	R	+G	+G	R	R	+G	+G	R
1 AND 6 CHANGE	+R	+R	G	G	+R	+R	G	G	+R	+R	G	G	+R	+R	G
PHASE 2 AND 5	+R	+R	G	G	+R	+R	G	G	+R	+R	G	G	+R	+R	G
2 AND 5 CHANGE	+R	+R	G	G	+R	+R	G	G	+R	+R	G	G	+R	+R	G
PHASE 2 AND 6	+R	+R	G	G	+R	+R	G	G	+R	+R	G	G	+R	+R	G
2 AND 6 CHANGE	+R	+R	G	G	+R	+R	G	G	+R	+R	G	G	+R	+R	G
PHASE 3	+R	+R	G	G	+R	+R	G	G	+R	+R	G	G	+R	+R	G
3 CHANGE	+R	+R	G	G	+R	+R	G	G	+R	+R	G	G	+R	+R	G
PHASE 3 ALT	+R	+R	G	G	+R	+R	G	G	+R	+R	G	G	+R	+R	G
PHASE 3 ALT	+R	+R	G	G	+R	+R	G	G	+R	+R	G	G	+R	+R	G
PHASE 4	+R	+R	G	G	+R	+R	G	G	+R	+R	G	G	+R	+R	G
4 CHANGE	+R	+R	G	G	+R	+R	G	G	+R	+R	G	G	+R	+R	G
PHASE 1	+R	+R	G	G	+R	+R	G	G	+R	+R	G	G	+R	+R	G
PHASE 2	+R	+R	G	G	+R	+R	G	G	+R	+R	G	G	+R	+R	G
PHASE 3	+R	+R	G	G	+R	+R	G	G	+R	+R	G	G	+R	+R	G
PHASE 4	+R	+R	G	G	+R	+R	G	G	+R	+R	G	G	+R	+R	G
FLASHING OPERATION	+G	+G	C	C	+G	+G	C	C	+G	+G	C	C	+G	+G	C

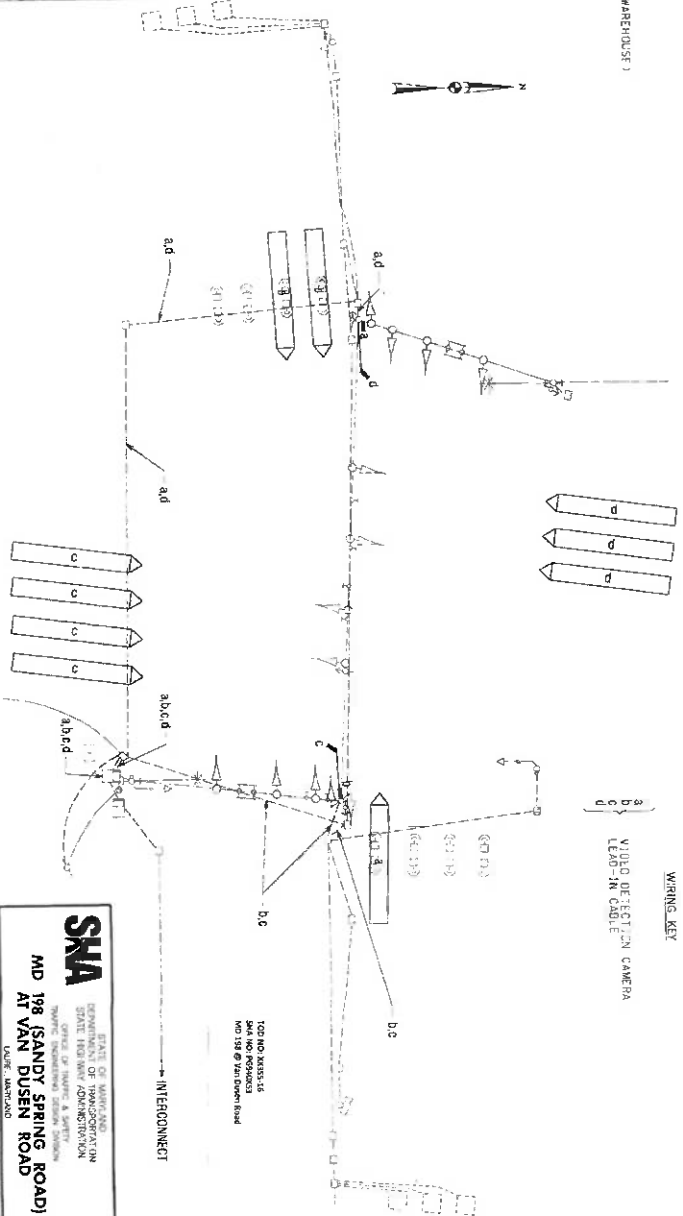
EQUIPMENT LIST

ITEM CODE	QTY	UNITS	DESCRIPTION
9086	1	EA	VIDEO DETECTION INTERFACED EQUIPMENT 1-4 CAMERAS
8097	4	EA	VIDEO DETECTION CAMERA & CABLE

DESCRIPTION
 MAINTENANCE OF TRAFFIC PER ASSIGNMENT
 CABLE VIDEO CAMERA AND REVIEW & DISPOSE OF MATERIAL & EQUIPMENT PER ASSIGNMENT
 VIDEO DETECTION CAMERA & CABLE

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.
 B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.
 C. ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



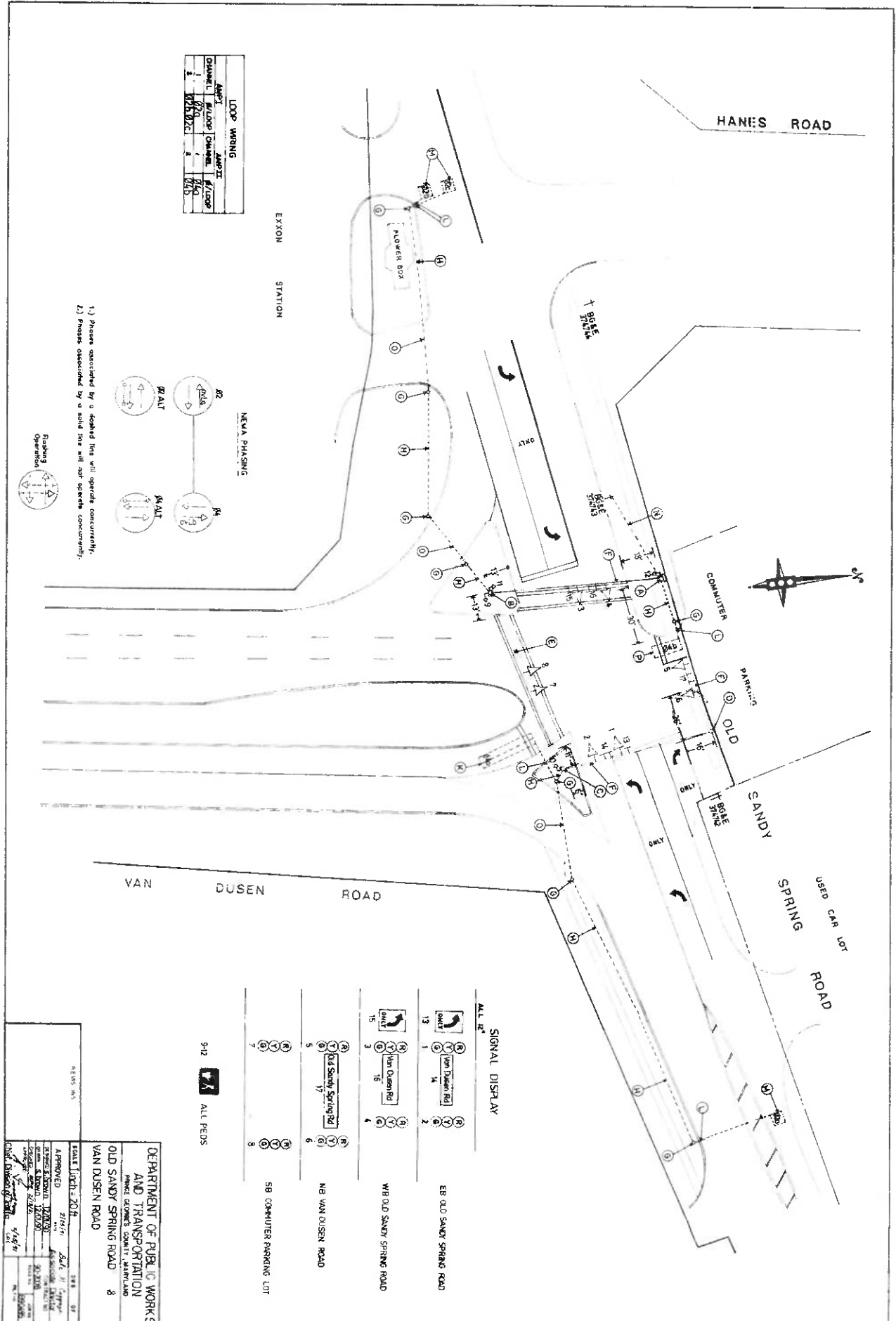
SHA
 STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN SECTION
 MD 198 (SANDY SPRING ROAD)
 AT VAN DUSEN ROAD
 LAUREL, MARYLAND

GENERAL INFORMATION SHEET

SCALE: 1"=50'
 DATE: 11/13/13
 CONTRACT NO.: J000000000

DRAWN BY: S. MARSHALL
 CHECKED BY: A. MARSHALL
 COUNTY: PRINCE GEORGES
 PROJECT NO.: 20080029
 SHEET NO.: 101
 TOTAL SHEETS: 101

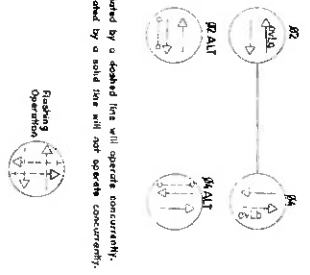
THIS NO. 9542E
 SHEET NO. 1 OF 2



LOOP	WIRING
APORT	APORT
Channel	Radio Channel
1	170
2	170
3	170
4	170

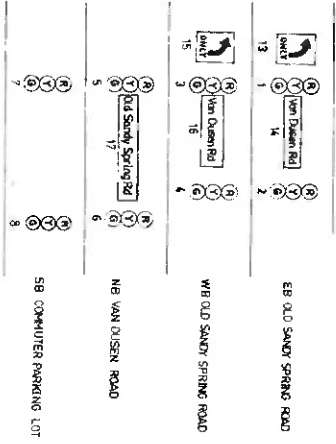
EXXON STATION

NEWA PHASING



- 1) Phases controlled by a solid line will operate concurrently.
- 2) Phases controlled by a solid line will not operate concurrently.

SIGNAL DISPLAY



DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION
FRANK CROWNE COUNTY, MARYLAND

PROJECT: VAN DUSEN ROAD
SANDY SPRING ROAD
VAN DUSEN ROAD

DATE: 10/1/2016

APPROVED: [Signature]
DESIGNED: [Signature]
CHECKED: [Signature]