GEOTECHNICAL EVALUATION FLORENCE PAVEMENT REHABILITATION FLORENCE HEIGHTS, FLORENCE GARDENS PHASE 3 AND 4, AND HUNT HIGHWAY TOWN OF FLORENCE, ARIZONA

PREPARED FOR:

EPS Group, Inc. 2045 South Vineyard, Suite 101 Mesa, Arizona 85210

PREPARED BY:

Ninyo & Moore Geotechnical and Environmental Sciences Consultants 1991 East Ajo Way, Suite 145 Tucson, Arizona 85713

> January 18, 2017 Project No. 605256001



January 18, 2017 Project No. 605256001

Mr. Elijah Williams, PE EPS Group, Inc. 2045 South Vineyard, Suite 101 Mesa, Arizona 85210

Subject:

Geotechnical Evaluation

Florence Pavement Rehabilitation

Florence Heights, Florence Gardens Phase 3 and 4, and Hunt Highway

Town of Florence, Arizona

Dear Mr. Williams:

In accordance with our proposal dated September 20, 2016, Ninyo & Moore has performed a geotechnical evaluation for the above-referenced project. This report presents our findings, conclusions, and geotechnical recommendations for the project.

We appreciate the opportunity to be of service to you during this phase of the project.

Sincerely,

NINYO & MOORE

Marek J. Kasztalski, PE, PMP, Senior Geotechnical Engineer

MJK/SDN/jom

Distribution: (1) Addressee (via email)

Sten D. Nowory of.

Steven D. Nowaczyk, PE Managing Principal Engineer



TABLE OF CONTENTS

		Page
1.	INTRODUCTION	1
2.	SCOPE OF SERVICES	1
3.	PROJECT LOCATION AND DESCRIPTION	2
4.	FIELD EXPLORATION AND LABORATORY TESTING	2
5.	GEOLOGY AND SUBSURFACE CONDITIONS	
٥.	5.1. Geologic Setting	
	5.2. Subsurface Conditions	
	5.2.1. Asphaltic Concrete	
	5.2.2. Fill	
_	5.2.3. Alluvium	
6.	EXISTING PAVEMENT CONDITION	
7.	CONCLUSIONS	8
8.	RECOMMENDATIONS	9
	8.1. Earthwork	
	8.1.1. Site Preparation	
	8.1.2. Excavations	
	8.1.4. Grading and Pavement Subgrade Preparation	
	8.2. Pavements	
	8.2.1. New Structural Pavement Section Design	12
	8.2.2. Design R-value	
	8.2.3. Pavement Design Parameters	
	8.2.4. Recommended New Pavement Sections	
	•	
9.	SITE DRAINAGE	
10.	CONSTRUCTION OBSERVATION AND TESTING	18
11.	LIMITATIONS	18
12.	REFERENCES	21
		
_	bles ble 1 – Summary of AC Thickness	4
	ole 2 – Summary of AB Thickness	
Tab	ble 3 – Florence Gardens Phase 3 Pavement Condition Survey Summary	6
	ble 4 – Florence Gardens Phase 4 Pavement Condition Survey Summary	
	ble 5 – R-Value Summary	
	ble 6 – Traffic Volume Summaryble 7 – Levels of Reliability and Standard Normal Deviates	
	ble 8 – Recommended Structural Pavement Sections	

i

Figures

Figure 1 – Site Locations

Figure 2A – Boring Locations – Florence Heights Drive

Figure 2B – Boring Locations – Florence Gardens Phase 3

Figure 2C – Boring Locations – Florence Gardens Phase 4

Figure 2D – Boring Locations – Hunt Highway

Appendices

Appendix A – Boring Logs

Appendix B – Laboratory Testing

Appendix C – 24-hour Traffic Count Data

1. INTRODUCTION

In accordance with our proposal, we have performed a geotechnical and pavement evaluation for a pavement rehabilitation project in Florence, Arizona. The project generally includes pavement reconstruction along Florence Heights Drive, within Florence Gardens Phases 3 and 4, and along Hunt Highway. The purpose of our evaluation was to assess and document the subsurface conditions at the project site and provide engineering recommendations relative to pavement design and construction.

2. SCOPE OF SERVICES

Our scope of services for this project generally included:

- Reviewing of available published and in-house geotechnical reports, topographic information, soil surveys, geologic literature, and aerial photographs of the project area.
- Obtaining Town of Florence right of entry permission.
- Conducting a site visit to perform a visual evaluation of existing pavement conditions at the sites, including residential streets within Florence Gardens Phases 3 and 4 and along Florence Heights Boulevard and Hunt Highway.
- Establishing boring locations in the field, and notifying the underground utilities through Arizona811.
- Arranging for traffic control services during our field operations.
- Coring the existing pavement at 21 locations using an electrical coring machine to evaluate the current pavement thickness.
- Excavating auger borings within each of the cored pavement holes, using hand-operated equipment to depths of approximately 2 feet below ground surface (bgs). The borings were logged in general accordance with industry standard methods, and samples were obtained for laboratory testing.
- Conducting laboratory testing of representative samples obtained from the borings including gradation analysis and Atterberg limits tests.

1

• Preparing this geotechnical evaluation report.

3. PROJECT LOCATION AND DESCRIPTION

We understand that the Town of Florence intends to provide pavement improvements to four sites as part of the Town's Capital Improvement Plan. These sites generally include:

- Florence Heights Drive: a minor collector street beginning just south of the SR287/SR79B Junction and extending 2,847 feet easterly to North Pinal Parkway Avenue (SR 79). Overlay and shoulder widening are planned.
- Florence Gardens Phase 3: a residential area with local roads generally bounded by North Florence Boulevard, East Washington Street, North Pinal Parkway Avenue (SR79) and East Gila Boulevard. Total interior street length is 5,600 feet: Overlay or reconstruction and minor drainage improvements are planned.
- Florence Gardens Phase 4: a residential area with local roads generally bounded by North Florence Boulevard, East California Boulevard, North Pinal Parkway Avenue (SR79), and East Pinal Way. Total interior street length is 6,518 feet. Overlay or reconstruction and minor drainage improvements are planned.
- Hunt Highway: a minor arterial roadway, beginning at East Franklin Road and extending northerly approximately 1,500 feet. Overlay and shoulder widening are planned.

4. FIELD EXPLORATION AND LABORATORY TESTING

On November 11 and 12, 2016, Ninyo & Moore conducted a subsurface exploration at the site in order to evaluate the existing subsurface conditions and to collect soil samples for laboratory testing. Our evaluation consisted of coring the existing pavement at 21 locations and excavating the subgrade soils using hand auger techniques to an approximate depth of 2 feet below ground surface (bgs) in accordance with the following schedule:

- Four cores and borings along Florence Heights Drive;
- Six cores and borings within Florence Gardens Phase 3;
- Seven cores and borings within Florence Gardens Phase 4; and
- Four cores and borings along Hunt Highway.

Ninyo & Moore personnel logged the borings in general accordance with the Unified Soil Classification System (USCS) and American Society for Testing and Materials (ASTM) D 2488

by observing cuttings and split-spoon samples. Bulk samples were collected from the cuttings and placed in large plastic bags. Soil classifications, detailed soil descriptions, and other pertinent data are presented on the boring logs in Appendix A. The approximate boring locations are depicted on Figure 2.

Samples collected from our borings were transported to the Ninyo & Moore laboratory for geotechnical laboratory analyses. The laboratory analyses included gradation analysis and Atterberg limits, a description of each test method and the laboratory results are presented in Appendix B.

5. GEOLOGY AND SUBSURFACE CONDITIONS

5.1. Geologic Setting

The project site is located in the Sonoran Desert Section of the Basin and Range physiographic province, which is typified by broad alluvial valleys separated by steep, discontinuous subparallel mountain ranges. The mountain ranges generally trend north-south and northwest-southeast. The basins consist of alluvium with thicknesses extending to several thousands of feet.

The basins and surrounding mountains were formed approximately 10 to 18 million years ago during the mid- to late-Tertiary. Extensional tectonics resulted in the formation of horsts (mountains) and grabens (basins) with vertical displacement along high-angle normal faults. Intermittent volcanic activity also occurred during this time. The surrounding basins filled with alluvium from the erosion of the surrounding mountains, as well as from deposition from rivers. Coarser-grained alluvial material was deposited at the margins of the basins near the mountains. The surficial geology of the site is described as Holocene (0 to 10,000 years) active stream channel, terrace, and alluvial fan deposits. Soils within this unit range from undeveloped to moderately developed with thin accumulations of calcium carbonate. (Pearthree et. al, 1988).

5.2. Subsurface Conditions

Our knowledge of the subsurface conditions at the project site is based on our field exploration, laboratory testing, and our general understanding of the geology of the area. The following paragraphs provide a generalized description of the materials encountered.

The boring logs contain our field and laboratory test results, as well as our interpretation of conditions believed to exist between actual samples retrieved. Therefore, these boring logs contain both factual and interpretive information. Lines delineating subsurface strata on the boring logs are intended to group soils having similar engineering properties and characteristics. They should be considered approximate, as the actual transition between soil types (strata) may be gradual. A key to the soil symbols and terms used on the boring logs is provided in Appendix A.

5.2.1. Asphaltic Concrete

Asphaltic concrete (AC) pavement was encountered at the surface of our borings. The AC thickness measured in our borings is summarized in Table 1 below.

LocationApproximate AC Thickness (in)Florence Heights Drive3 to 4Florence Gardens Phase 31 to 1.25Florence Gardens Phase 40.5 to 1Hunt Highway1

Table 1 – Summary of AC Thickness

The thickness of the pavement between our boring locations may vary and could be different from that encountered in our pavement cores. Aggregate Base Course (AB) was encountered at some boring locations and its thickness was measured between 1.5 and 3 inches, as summarized in Table 2 below.

Table 2 – Summary of AB Thickness

Location	Approximate AC Thickness (in)
Florence Heights Drive	Not encountered
Florence Gardens Phase 3	0 to 3
Florence Gardens Phase 4	0 to 3
Hunt Highway	Not encountered

5.2.2. Fill

Man-made fill soils were encountered in our boring B-15 (North Florence Blvd) below the AC pavement. The fill extended to the boring termination depth of 2 feet and consisted of medium dense to dense silty sand with trace gravel.

5.2.3. Alluvium

Native alluvium was encountered below the AC pavement in our borings except boring B-15, and extended to the boring termination depths. The alluvium generally consisted of medium dense to dense silty and clayey sands with varying amounts of gravel and cobbles in our borings.

6. EXISTING PAVEMENT CONDITION

On November 3, 2016, Ninyo & Moore performed visual condition survey of the roadway pavements within the project limits. The following paragraphs provide a brief description of our observations.

Florence Heights Drive

The existing facility is a two lane roadway AC paved roadway with unpaved shoulders, and generally situated at grade. No side ditches or other drainage improvements were observed along the project alignment. Based on our field observations, the existing pavement exhibited moderate to severe distress in many locations consisting primarily of alligator cracking, longitudinal and transverse cracking, edge cracking, flushing and potholes. The pavement showed signs of past

maintenance such as patching, crack sealing, and a chip seal application. It is our opinion that the distress observed indicates both structural and functional failure of the pavement in many locations.

Florence Gardens Phase 3

The existing AC paved roadways are part of the residential neighborhood. The streets are two-lane with unpaved shoulders and generally situated at grade. Drainage facilities were not observed except for the Florence Boulevard between Pinal Way and Maricopa Boulevard and McFarland Boulevard, where concrete gutter on either side of the roadway was observed. These residential streets exhibited distress consisting of alligator cracking, transverse and longitudinal cracking, potholes, rutting pavement failure. It is our opinion that the distress observed indicates both structural and functional failure of the pavement in many locations. A summary of our observation is presented in the table below.

Table 3 – Florence Gardens Phase 3 Pavement Condition Survey Summary

Street Segment	Distress		
Florence Boulevard between Gila Boulevard	Alligator and transverse cracking.		
Maricopa Boulevard	ringutor and transverse cracking.		
Colorado Avenue between Florence	Alligator cracking, potholes, patches.		
Boulevard and McFarland Boulevard	Amgator cracking, potnoics, patenes.		
McFarland Boulevard between Florence	Alligator cracking, potholes, patches.		
Boulevard and Colorado Avenue	Amgator cracking, pouroies, pateries.		
Mississippi Street between Florence	Alligator cracking, potholes, patches,		
Boulevard and Colorado Avenue	pavement failure at some locations.		
Colorado Avenue between McFarland	Some alligator greaking		
Boulevard and Alabama Court	Some alligator cracking.		
Alabama Court	Alligator, transverse and longitudinal cracks,		
Alabama Court	potholes, pavement failure at some locations.		
Colorado Avenue between Alabama Court and	Northern portion severely distressed with		
	alligator cracking, potholes, patching and		
Washington Street	pavement deformation.		
Washington Street	Extensive alligator cracking, potholes,		
Washington Street	patches.		
Idaho Avenue	Extensive alligator cracking, potholes,		
Idano Avenue	patches.		
Cochise Boulevard between Florence	Allicator and impaylor anadring		
Boulevard and Idaho Avenue	Alligator and irregular cracking.		

6

605256001 R Rev.doc

Florence Gardens Phase 4

The existing AC paved roadways are part of the residential neighborhood. The streets are two-lane with unpaved shoulders and generally situated at grade except for portions of the Florence Boulevard, which is situated in shallow cut. Drainage facilities were not observed except for the Florence Boulevard between California Boulevard and Pennsylvania Ave, where concrete gutter along the west side of the roadway was observed. These residential streets exhibited distress consisting of alligator cracking, transverse and longitudinal cracking, potholes, rutting pavement failure. It is our opinion that the distress observed indicates both structural and functional failure of the pavement in many locations. A summary of our observation is presented in the table below.

Table 4 – Florence Gardens Phase 4 Pavement Condition Survey Summary

Street Segment	Distress
Pennsylvania Avenue east of Florence	Alligator and transverse cracking, potholes and
Boulevard	patches at some locations.
Lancaster Circle between Idaho Avenue	Alligator cracking, potholes, patches.
and Casita Circle Drive	
Lancaster Circle between Casita Circle	Alligator cracking, potholes, patches and
Drive and California Boulevard	pavement failures at the cul-de-sac and Yuma
	Court.
Yuma Court	Alligator cracking, potholes, patches, pavement
	failure at some locations.
Colorado Avenue between Lancaster Circle	Some alligator cracking especially in the southern
and California Boulevard	portion of this segment.
Coconino Avenue between Lancaster	Alligator cracks, potholes, pavement failure at
Circle and California Boulevard	some locations.
Idaho Avenue between Lancaster Circle	Alligator cracks, potholes, pavement failure at
and California Boulevard	some locations.
California Boulevard between Lancaster	Alligator cracking, potholes, patches and
Circle and Florence Boulevard	pavement failure at some locations.
Florence Boulevard between California	Extensive alligator and block cracking.
Boulevard and Pennsylvania Avenue	

Hunt Highway

The existing facility is a two lane roadway AC paved roadway with 2-foot wide AC shoulders, and generally situated near existing grades with the terrain sloping from the west down to the

east. Shallow side ditches were observed along the west side of the project alignment. The east edge of the roadway was slightly elevated compared to the terrain situated to the east of the roadway. Based on our field observations, the existing pavement exhibited severe distress in many locations consisting primarily of alligator cracking, longitudinal cracking, edge cracking, permanent deformation (rutting), and potholes. It is our opinion that the distress observed indicates both structural and functional failure of the pavement in many locations.

7. CONCLUSIONS

The conclusions presented below are based on the results of our field explorations, pavement condition survey and laboratory testing.

General Conclusions

- The pavements within the project limits exhibit various signs of distress generally including alligator cracking, transverse and block cracking, potholes, permanent deformation (rutting), and pavement structural failure; and
- In many locations, some patching and crack sealing was observed. Some patches have already deteriorated.

Specific Conclusions

- Florence Heights Drive:
 - primary causes of the pavement distress include the pavement age and traffic;
 - drainage deficiencies have been a contributory factor to the pavement distress; and
 - pavement rehabilitation by milling and overlay is possible. However, significant portions of pavement areas will need full-depth pavement reconstruction after milling.
- Florence Gardens Phases 3 and 4:
 - the primary cause of the distress is insufficient thickness of the pavement structural section (1 inch on average);
 - drainage deficiencies have been a contributory factor to the pavement distress; and
 - pavement rehabilitation by milling and overlay is not practicable. Full-depth pavement reconstruction is recommended.

• Hunt Highway:

- the primary cause of the distress is insufficient thickness of the pavement structural section (1 inch); and
- pavement rehabilitation by milling and overlay is not practicable. Full-depth pavement reconstruction is recommended.

8. RECOMMENDATIONS

The following sections present our geotechnical recommendations for the project. If the proposed construction is changed from that discussed in this report, Ninyo & Moore should be contacted for additional recommendations.

8.1. Earthwork

The following sections provide our earthwork recommendations. In general, the earthwork specifications contained in Maricopa Association of Governments (MAG), Uniform Standard Specifications and Details for Public Works Construction, as modified by the Maricopa County Department of Transportation Supplement dated January 2015, and by the Town of Florence, are expected to apply, except as noted.

8.1.1. Site Preparation

Construction areas should be cleared of deleterious materials, if any are present, construction debris, vegetation, and any other material that might interfere with the performance or progress of the work. These materials should be disposed of at a legal dumpsite. Existing features that call for relocation or removal and extend below finish grade, if present, should be removed, and the resulting excavations backfilled with compacted engineered fill as discussed in this report.

8.1.2. Excavations

Our evaluation of the excavation characteristics of the on-site soils is based on the results of our exploratory borings, site observations, and experience with similar

materials. In our opinion, excavation of the near surface on-site soils can be accomplished using heavy-duty earthmoving equipment in good operating condition. However, based on the results of our exploration and experience in the projects area, gravel and cobbles should be expected at relatively shallow depths, which may slow the excavation rate. The contractor should be prepared for such conditions.

8.1.3. Fill Materials and Reuse of On-site Soils

On-site and imported soils that exhibit relatively low plasticity indices and very low to low expansive potential are generally suitable for re-use as engineered fill. Relatively low plasticity indices are defined as a PI value of 15, or less, as evaluated by ASTM D 4318.

In addition, suitable fill should not include organic material, construction debris, or other non-soil fill materials. Clay lumps and rock particles should not be larger than 4 inches in dimension. This material should be disposed of off-site or in non-structural areas.

Fill materials in contact with ferrous metals should also have low corrosion potential (minimum resistivity more than 2,000 ohm-cm, chloride content less than 25 parts per million [ppm]). Fill material in contact with concrete should have a soluble sulfate content of less than 0.1 percent.

Based on laboratory test results, the on-site soils exhibited PI values ranging from 0 (non-plastic) to 11. As such, we anticipate that many of on-site soils will be suitable for re-use as engineered fill during construction. The Contractor may elect to perform additional testing prior to construction to better delineate areas of soils not acceptable for reuse as engineered fill.

8.1.4. Grading and Pavement Subgrade Preparation

Prior to the placement of engineered fill, exposed surfaces from excavations should be proof-rolled and carefully evaluated by Ninyo & Moore for the presence of soft, loose,

or wet soils that were not removed as part of the improvement process. Based on this evaluation, additional remediation may be needed. This could include further scarification of the exposed surface. This additional remediation, if needed, should be addressed by the geotechnical consultant during the earthwork operations.

Engineered fill, where necessary, should be placed in lifts not exceeding 8 inches in loose thickness and compacted by appropriate mechanical methods to a relative compaction of 95 percent as evaluated by ASTM D 698 at a moisture content slightly above the laboratory optimum.

As stated previously, our borings disclosed alluvial and fill soils generally consisting of silty and clayey sands with varying percentages of gravel and cobbles. In order to reduce the potential for excessive total and differential movements, we recommend the following subgrade preparation be performed beneath the proposed improvements.

New pavements should be supported on 6 inches or more of improved subgrade. This can be achieved by scarification of the on-site soils, moisture-conditioning and recompaction to a relative compaction of 95 percent as evaluated by ASTM D 698 at moisture content slightly above the laboratory optimum.

In addition, we recommend that new pavements be supported on imported or on-site soils with an average soil R-value of 35 or more that extends 2 feet or more below the bottom of the base material. The contractor should be aware that zones of soils with lower than recommended R-values may be encountered along the project alignment. This can be remedied by overexcavation and replacement, blending with other soils or lime/cement treatment, as approved by the Engineer.

An earthwork (shrinkage) factor of 10 to 20 percent is estimated. This shrinkage factor range represents an average of the material tested and assumes that materials excavated from the site will be placed as fill. Potential bidders should consider this in preparing estimates and should review the available data to make their own conclusions regarding

excavation conditions. A ground compaction factor of 0.15 feet is recommended for this project.

8.2. Pavements

The following sections provide our recommendations for the pavement treatments. As mentioned in Section 7 above, the recommended pavement treatment is full-depth pavement reconstruction. In addition, for Florence Heights Drive, a mill and overlay option is feasible and discussed below.

8.2.1. New Structural Pavement Section Design

The following sections present our design assumptions and recommendations for the new flexible pavement sections. The pavement sections were developed in general accordance with the Roadway Design Manual issued by the Maricopa County Department of Transportation (Manual) and the Arizona Department of Transportation (ADOT) Preliminary Engineering and Design Manual (PEDM). We assumed that the subgrade preparation recommendations outlined in this report will be employed.

New pavement sections for Florence Heights Drive and Hunt Highway were developed using the traffic count data provided by the Town of Florence. These pavement sections were designed for a 10-eyar service life. For Florence Gardens Phases 3 and 4, traffic information was not available. For those roadways we used the alternative design method for local and minor collector roads described in Section 10.2.6 of the Manual for a 20-year service life.

8.2.2. Design R-value

The subsurface soils encountered in our borings generally consist of silty and clayey sand with varying amounts of gravel. Table 5 summarizes the laboratory and correlated R-values as measured on soil samples obtained within the upper 2 feet from various borings within the project limits.

Table 5 – R-Value Summary

Boring No.	Sample Location	Plasticity Index	Percent Passing #200 Sieve	Correlated R-value
B-2	Florence Heights Drive	5	30	54
B-4	Florence Heights Drive	0	9	88
B-6	Florence Gardens Phase 3	5	21	62
B-9	Florence Gardens Phase 3	3	22	66
B-11	Florence Gardens Phase 4	11	13	54
B-17	Florence Gardens Phase 4	0	13	84
B-19	Hunt Highway	0	12	54
B-21	Hunt Highway	7	27	37

In accordance with PEDM, generally the design resilient modulus value for subgrade materials should not exceed 26,000 pounds per square inch (psi). Taking this recommendation into consideration and and in the interest of conservatism, the design R-value of 35 is recommended for the pavement design for this project in accordance with the Manual and PEDM.

In addition, we recommend that any borrow or imported material used within 2 feet of the finished roadway subgrade have a correlated or laboratory tested R-value not less than the design values presented above.

8.2.3. Pavement Design Parameters

The following sections present our design assumptions and recommendations for the new flexible pavement sections for Florence Heights Drive and Hunt Highway. Florence Gardens Phases 3 and 4 pavements are designed in accordance with the alternative design method for local roads. The alternative pavement design procedure these parameters are not needed.

Traffic Volumes

As mentioned above, traffic information was not available for Florence Gardens Phases 3 and 4. The Town of Florence provided recent 24-hour traffic count data with vehicle classification for the two other projects as follows:

- For Florence Heights Drive the counts were taken on the eastbound and westbound lane between December 6 and 8, 2016; and
- For Hunt Highway the counts were taken on the northbound and southbound lane between January 5 and 9, 2017.

The traffic count data are presented in Appendix C.

Typical values of the traffic growth factors were adopted based on our experience with similar roadway projects and discussions with the Town of Florence. Table 6 below summarizes the traffic volume information used to perform the pavement design assuming that 2017 is the first year of service. Conversion of the different vehicle categories into equivalent single axle loads (ESAL's) was performed in accordance with the manual.

Table 6 – Traffic Volume Summary

Roadway Segment	Approximate ADT per traffic counts (v/d)	Approximate Growth (%)	Design Life (yrs)	Cumulative ESAL's
Florence Heights Drive	2,660	3.0	10	815,500
Hunt Highway	10,540	3.0	10	1,069,000

Resilient Modulus

As discussed in this section above, the design R-value of 35 was assumed for the new pavement section design. Based on PEDM seasonal variation factors of 1.3 and 1.2

were assumed for Florence Heights Drive and Hunt Highway, respectively. The following resilient modulus (M_R) values were estimated:

- 17,984 psi for Florence Heights Drive; and
- 18,869 psi for Hunt Highway.

Drainage Coefficient

A drainage coefficient of 1.0 for fair drainage quality was established based on the Manual.

Standard Deviation and Level of Reliability and Serviceability

A combined standard error of 0.45 was used for the design of flexible pavements in accordance with the Manual. Table 7 below presents the level of reliability and combined standard error for the various roadway segments under consideration for this project. These values were obtained from the Manual.

Table 7 – Levels of Reliability and Standard Normal Deviates

Road Segment	Functional Level of Classification	Level of Reliability %	Combined Standard Error S _o
Florence Heights Drive.	Florence Heights Drive. Minor Collector		0.45
Hunt Highway Minor Arterial		95	0.45

Serviceability

Initial serviceability of 4.4 was used for the design of Florence Heights Drive, while a value of 4.5 was used for the design of Hunt Highway. Terminal serviceability values of 2.3 and 2.5 were used for the design of Florence Heights Drive and Hunt Highway, respectively

Structural Coefficients

The following structural coefficients were used for the pavement structure in accordance with the Manual:

• Asphaltic Concrete: 0.42;

• Aggregate Base: 0.12.

8.2.4. Recommended New Pavement Sections

In accordance with the pavement design procedure described in the Manual for flexible pavement design, and using the above parameters, we designed the structural pavement section for the project roadway segments. The recommended structural pavement sections are presented in Table 8 below.

Table 8 – Recommended Structural Pavement Sections

Roadway Segment	Subgrade	Aggregate Base ² (in)	Asphaltic Concrete ³
Florence Heights Drive	6-in scarify and re-compact per Section 8.1.4.	6	1.5 inches of MAG ½ inch mix 2.5 inches of MAG ¾ inch mix
Florence Gardens Phase 3 ¹	6-in scarify and re-compact per Section 8.1.4.	6	2.5 inches of MAG ½ or ¾ inch mix
Florence Gardens Phase 4 ¹	6-in scarify and re-compact per Section 8.1.4.	6	2.5 inches of MAG ½ or ¾ inch mix
Hunt Highway	6-in scarify and re-compact per Section 8.1.4.	6	2 inches of MAG ½ inch mix 2.5 inches of MAG ¾ inch mix

¹ Pavement Section designed using the alternative design method per the Manual Section 10.2.6; Design Chart 101A.

Reclaimed Asphalt Pavement (RAP) may be used in base materials and asphalt concrete as specified in Sections 702.1 and 710.2.3 of the MAG Specifications, respectively.

² Per Section 702 of MAG Specifications.

³ Per Section 710 of MAG Specifications, bituminous material performance grade PG 70-10.

The service life for the reconstructed AC pavement using the re-construction approach as described above is estimated to be on the order of 20 years for the Florence Gardens Phase 3 and 4 projects and 10 years for the Florence Heights Drive project and Hunt Highway project.

8.2.5. Alternative Pavement Treatments for Florence Heights Drive

Alternative pavement rehabilitation treatments are feasible for the Florence Heights Drive project, as described below. Due to the relatively thin AC thickness, no alternative treatments are recommended for the other project segments.

AC Overlay

This rehabilitation treatment is feasible but due to the extensive distress of the existing pavement, it is not recommended. Alligator cracked areas will exhibit reflective cracking potentially followed by pavement structural failure at a relatively early stage of the overlaid pavement life. As such, mill and overlay treatment is recommended as discussed below.

Mill and Overlay

As mentioned previously, mill and overlay pavement treatment is the recommended alternative for Florence Heights Drive. For this alternative, we recommend that the mill depth be 1 inch followed by a tack coat, as appropriate, and a 2.5-inch new AC overlay. This will result in pavement elevations higher by 1.5-inch than the existing pavement. We also recommend application of the pavement fabric interlayer (Sections 321.8.7 and 796.2.1 of the MAG Standard Specifications) on the milled AC surface to help defer reflective cracking and provide a barrier to water infiltration. The use of RAP is permitted subject to Section 710.2.3 of the MAG Specifications.

If the mill an overlay approach is selected for this roadway segment, it will be important that following the milling cracks wider than 1/8-inch be sealed and the milled AC pavement be inspected and evaluated for distress. Where severe distress is observed, the affected area of AC should be removed and full-depth pavement reconstruction

performed using the recommended structural pavement section. Such areas are typically characterized by extensively cracked, disintegrated, yielding and/or otherwise unstable AC.

The pavement service life for the pavement section rehabilitated/reconstructed as described above will depend on many factors affect the pavement performance, including the pavement and subgrade condition at the time of the construction and traffic conditions over the service life of the pavement.

The service life for the reconstructed AC pavement using the mill and overlay approach as described above is estimated to be on the order of 10 years.

9. SITE DRAINAGE

Drainage should be provided to divert water away from the paved surfaces. Surface water should not be permitted to pond on pavement areas. Positive drainage is defined as a slope of 2 percent or more for a distance of 5 feet or more away from the pavements.

10. CONSTRUCTION OBSERVATION AND TESTING

We recommend that the on-site geotechnical representative perform construction-phase observation and testing services for the project. These services should be performed to evaluate exposed subgrade conditions, including the extent and depth of overexcavation (if needed), to evaluate the suitability of proposed borrow materials for use as fill, and to observe placement and test compaction of fill soils. Qualified subcontractors utilizing appropriate techniques and construction materials should perform construction of the proposed improvements.

11. LIMITATIONS

The field evaluation, laboratory testing, and geotechnical analyses presented in this geotechnical report have been conducted in general accordance with current practice and the standard of care exercised by geotechnical consultants performing similar tasks in the project area. No warranty,

expressed or implied, is made regarding the conclusions, recommendations, and opinions presented in this report. There is no evaluation detailed enough to reveal every subsurface condition. Variations may exist and conditions not observed or described in this report may be encountered during construction. Uncertainties relative to subsurface conditions can be reduced through additional subsurface exploration. Additional subsurface evaluation will be performed upon request. Please also note that our evaluation was limited to assessment of the geotechnical aspects of the project, and did not include evaluation of structural issues, environmental concerns, or the presence of hazardous materials.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires additional information or has questions regarding the content, interpretations presented, or completeness of this document.

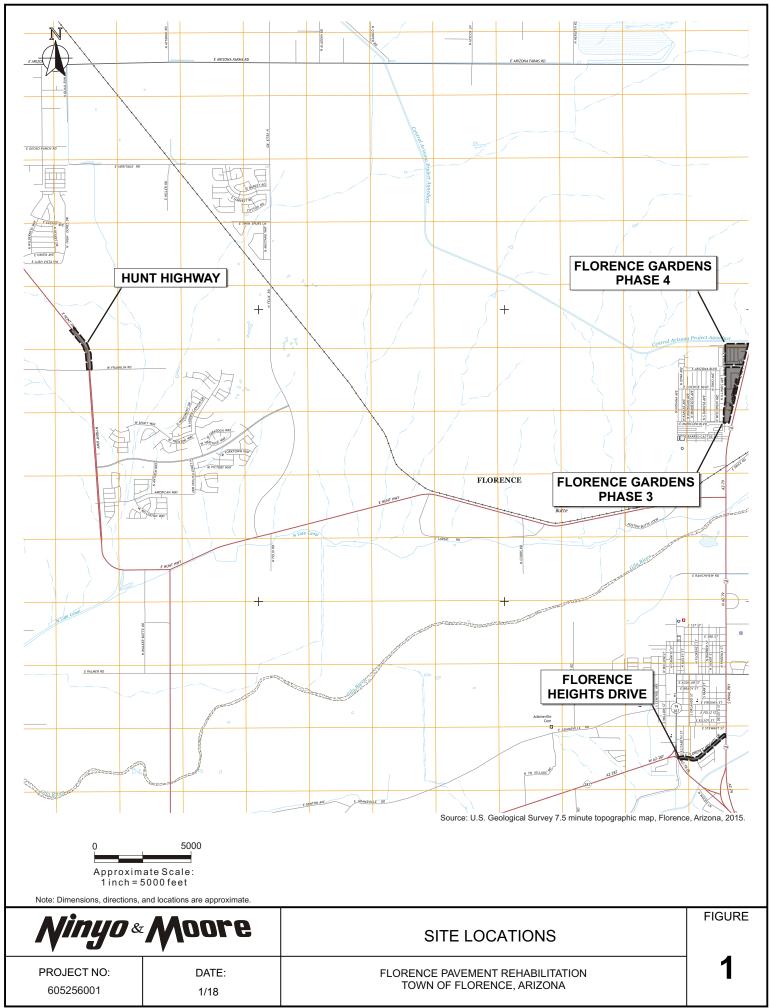
This report is intended for design purposes only. It does not provide sufficient data to prepare an accurate bid by contractors. It is suggested that the bidders and their geotechnical consultant perform an independent evaluation of the subsurface conditions in the project areas. The independent evaluations may include, but not be limited to, review of other geotechnical reports prepared for the adjacent areas, site reconnaissance, and additional exploration and laboratory testing.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. If geotechnical conditions different from those described in this report are encountered, our office should be notified and additional recommendations, if warranted, will be provided upon request. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

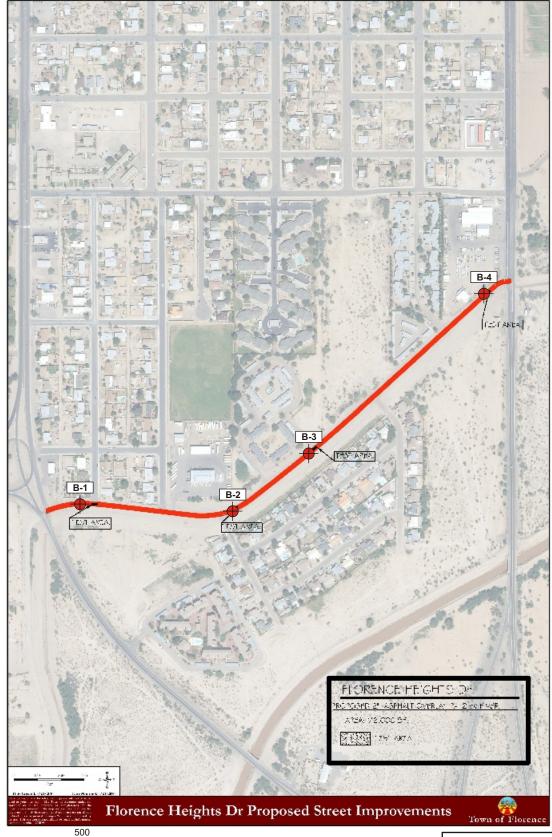
This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

12. REFERENCES

- American Society for Testing and Materials (ASTM), 2008 Annual Book of ASTM Standards.
- Arizona Department of Transportation (ADOT), 1989, Preliminary Engineering and Design Manual, Materials Section, ADOTM-XII-TWO-C, 3rd Edition, March.
- Maricopa Association of Governments' Uniform Standard Specifications and Details for Public Works Construction (current Edition).
- Maricopa County Department of Transportation, 2016, Roadway Design Manual, dated February.
- Maricopa County Department of Transportation, 2015, Supplement to the Maricopa Association of Governments', Uniform Standard Specifications and Details for Public Works Construction, dated January.
- Ninyo & Moore, In-house proprietary information.
- Pearthree, P.A., 1998, Quaternary Fault Data and Map for Arizona: Arizona Geological Survey, Open-File Report pp. 98-24, 122.







Approximate Scale:
1 inch = 500 feet

Note: Dimensions, directions, and locations are approximate.

B-4 Boring Location

Ninyo & Moore

DATE:

1/18

BORING LOCATIONS - FLORENCE HEIGHTS DRIVE

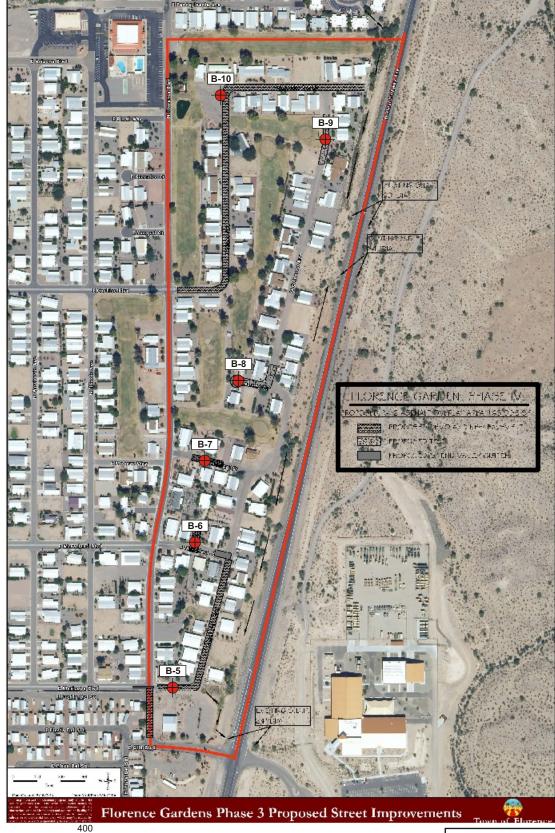
FLORENCE PAVEMENT REHABILITATION TOWN OF FLORENCE, ARIZONA

FIGURE

2A

PROJECT NO:





Approximate Scale: 1 inch = 400 feet

Note: Dimensions, directions, and locations are approximate.

B-10 Boring Location

Ninyo & Moore

BORING LOCATIONS - FLORENCE GARDENS PHASE 3

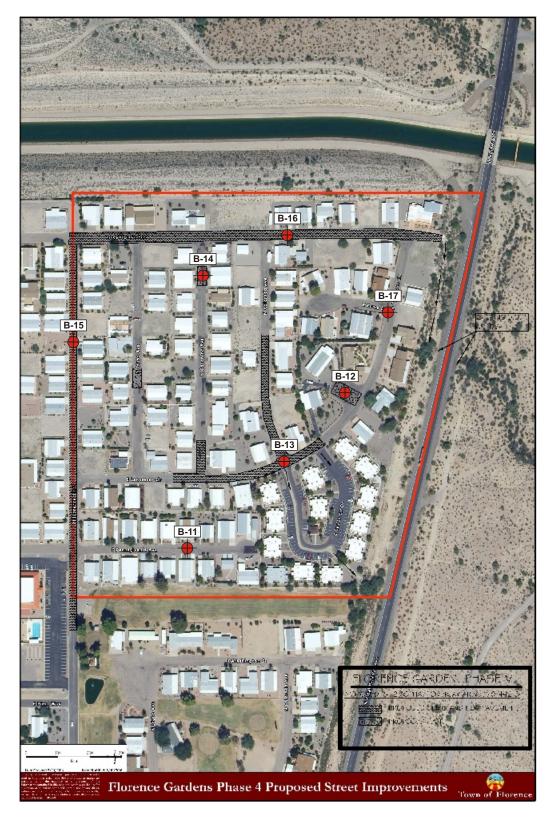
2B

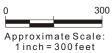
FIGURE

PROJECT NO: 605256001

DATE: 1/18 FLORENCE PAVEMENT REHABILITATION TOWN OF FLORENCE, ARIZONA







Note: Dimensions, directions, and locations are approximate.

B-17 Boring Location

Ningo & Moore PROJECT NO: DATE: 605256001 1/18		BORING LOCATIONS - FLORENCE GARDENS PHASE 4	FIGURE
		FLORENCE PAVEMENT REHABILITATION TOWN OF FLORENCE, ARIZONA	2C

file no: 5256blm1116c





Approximate Scale:
1 inch = 240 feet

Note: Dimensions, directions, and locations are approximate.

B-21 Boring Location

Ninyo & M	Noore
-----------	-------

BORING LOCATIONS - HUNT HIGHWAY

2D

FIGURE

PROJECT NO: 605256001

DATE: 1/18

FLORENCE PAVEMENT REHABILITATION TOWN OF FLORENCE, ARIZONA

APPENDIX A

BORING LOGS

Field Procedure for the Collection of Disturbed Samples

Disturbed soil samples were obtained in the field using the following methods.

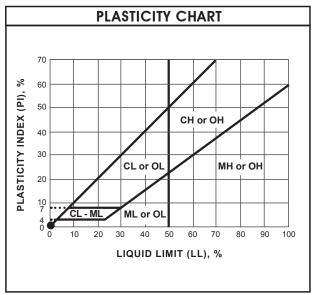
Bulk Samples

Bulk samples of representative earth materials were obtained from the exploratory borings. The samples were bagged and transported to the laboratory for testing.



SOIL CLASSIFICATION			CHART PER ASTM D 2488			
PRIMARY DIVISIONS			SECONDARY DIVISIONS			
PK				OUP SYMBOL	GROUP NAME	
		CLEAN GRAVEL	×	GW	well-graded GRAVEL	
		less than 5% fines		GP	poorly graded GRAVEL	
	GRAVEL			GW-GM	well-graded GRAVEL with silt	
	more than 50% of	GRAVEL with DUAL		GP-GM	poorly graded GRAVEL with silt	
	coarse	CLASSIFICATIONS 5% to 12% fines		GW-GC	well-graded GRAVEL with clay	
	retained on No. 4 sieve			GP-GC	poorly graded GRAVEL with clay	
	No. 4 Sieve	GRAVEL with		GM	silty GRAVEL	
COARSE- GRAINED		FINES more than		GC	clayey GRAVEL	
SOILS more than		12% fines		GC-GM	silty, clayey GRAVEL	
50% retained		CLEAN SAND		SW	well-graded SAND	
on No. 200 sieve		less than 5% fines		SP	poorly graded SAND	
				SW-SM	well-graded SAND with silt	
	SAND 50% or more	SAND with DUAL		SP-SM	poorly graded SAND with silt	
	of coarse fraction	CLASSIFICATIONS 5% to 12% fines		SW-SC	-SC well-graded SAND with clay	
	passes No. 4 sieve			SP-SC	poorly graded SAND with clay	
		SAND with FINES		SM	silty SAND	
		more than 12% fines		SC	clayey SAND	
	12	12 /0 111165		SC-SM	silty, clayey SAND	
				CL	lean CLAY	
	SILT and	INORGANIC		ML	SILT	
	CLAY liquid limit			CL-ML	silty CLAY	
FINE-	less than 50%	ORGANIC		OL (PI > 4)	organic CLAY	
GRAINED SOILS		0110/1110		OL (PI < 4)	organic SILT	
50% or more passes		INORGANIC		CH	fat CLAY	
No. 200 sieve	SILT and CLAY			MH	elastic SILT	
	liquid limit 50% or more	ORGANIC		OH (plots on or above "A"-line)	organic CLAY	
		OROANIO		OH (plots below "A"-line)	organic SILT	
	Highly (Organic Soils		PT	Peat	

GRAIN SIZE						
DESC	RIPTION	SIEVE SIZE	GRAIN SIZE	APPROXIMATE SIZE		
Вои	ılders	> 12"	> 12"	Larger than basketball-sized		
Col	obles	3 - 12"	3 - 12"	Fist-sized to basketball-sized		
Gravel	Coarse	3/4 - 3"	3/4 - 3"	Thumb-sized to fist-sized		
Graver	Fine	#4 - 3/4"	0.19 - 0.75"	Pea-sized to thumb-sized		
	Coarse	#10 - #4	0.079 - 0.19"	Rock-salt-sized to pea-sized		
Sand	Medium	#40 - #10	0.017 - 0.079"	Sugar-sized to rock-salt-sized		
	Fine	#200 - #40	0.0029 - 0.017"	Flour-sized to sugar-sized		
Fines		Passing #200	< 0.0029"	Flour-sized and smaller		



APPARENT DENSITY - COARSE-GRAINED SOIL											
	SPOOLING CA	ABLE OR CATHEAD	AUTOMATIC TRIP HAMMER								
APPARENT DENSITY	SPT (blows/foot)	MODIFIED SPLIT BARREL (blows/foot)	SPT (blows/foot)	MODIFIED SPLIT BARREL (blows/foot)							
Very Loose	≤4	≤8	≤3	≤ 5							
Loose	5 - 10	9 - 21	4 - 7	6 - 14							
Medium Dense	11 - 30	22 - 63	8 - 20	15 - 42							
Dense	31 - 50	64 - 105	21 - 33	43 - 70							
Very Dense	> 50	> 105	> 33	> 70							

CONSISTENCY - FINE-GRAINED SOIL											
	SPOOLING CA	ABLE OR CATHEAD	AUTOMATI	AUTOMATIC TRIP HAMMER							
CONSIS- TENCY	SPT (blows/foot)	MODIFIED SPLIT BARREL (blows/foot)	SPT (blows/foot)	MODIFIED SPLIT BARREL (blows/foot)							
Very Soft	< 2	< 2 < 3		< 2							
Soft	2 - 4	3 - 5	1 - 3	2 - 3							
Firm	5 - 8	6 - 10	4 - 5	4 - 6							
Stiff	9 - 15	11 - 20	6 - 10	7 - 13							
Very Stiff	16 - 30	21 - 39	11 - 20	14 - 26							
Hard	> 30	> 39	> 20	> 26							



USCS METHOD OF SOIL CLASSIFICATION

Explanation of USCS Method of Soil Classification

DDO IEOT NO		=:0::==
PROJECT NO	I DATE	l FIGURE
TINOULOTINO.	D/ (IL	I TOOKL

DEPTH (feet) Bulk Driven SAMPLES BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.		RING LOG EX	PLANATION :	SHEET
5 - XXX/XX					Sample retained by of Standard Penetration No recovery with a S	odified split-barrel dri thers. Test (SPT).		e recovered in inches.
10					No recovery with Sh Continuous Push Sar Seepage. Groundwater encoun Groundwater measur	elby tube sampler. nple. tered during drilling.		
15				SM	MAJOR MATERIAL Solid line denotes un Dashed line denotes Attitudes: Strike/Dip b: Bedding c: Contact j: Joint f: Fracture F: Fault cs: Clay Seam s: Shear bss: Basal Slide Surf sf: Shear Fracture sz: Shear Zone sbs: Shear Bedding S The total depth line i	it change. material change. ace	rawn at the bottom of	the boring.
20	•						BORING LO	<u> </u>
N ⁴	ny	[0	&	Na	ore	PROJECT NO.	Explanation of Boring Log Sy DATE	rmbols FIGURE

	SAMPLES			(H		_	DATE DRILLED	11/12/16	BORING NO	0		B-1	
et)	SAM	TOC	(%)	/ (PC		NOIL .	GROUND ELEVATION	N1,534' ± (MS	SL) S	SHEET _	1	OF	1
DEPTH (feet)	Bulk SAI BLOWS/FOOT MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	METHOD OF DRILLIN								
DEP		MOIS	۲Y DE	S	SLASS U.	DRIVE WEIGHT	N/A		DROP		N/A		
			D		Ü	SAMPLED BYDM	LOGGED BY DESCRIPTION/II	DM RE	VIEWED E	3Y _	SDN		
0							ASPHALT CONCRET						
-						SC-SM	ALLUVIUM: Brown, dry, medium d	ense, silty clayey SAl	ND with grave	el.			
-					XXXX		Total Depth = 2 feet. Groundwater not encountry	untered during drilling	g.				
2.5 -							Backfilled and asphalt			ly after co	mple	etion of di	rilling.
-							Notes:						
_							Groundwater, though r due to seasonal variation						
							report.	ons in precipitation ar	ia severar othe	i ractors t	.5 015	icussea iii	the
-							The ground elevation s of published maps and						
-							not sufficiently accurat				JII. It 18		
5 –													
-													
-													
-													
=													
7.5 –													
-													
-													
-		_											
-		_											
10													
		A #2				44-		W 00 ===	BORING		PION:		
		ΛIII	1//		Sz I	$\Lambda \Lambda \Lambda \Lambda$	nre		CE PAVEMENT R		TION	NI A	

PROJECT NO.

605256001

DATE

1/18

FIGURE

B-1

OEPTH (feet)	Bulk	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	Ś	SYMBOL	CLASSIFICATION U.S.C.S.	DRIVE WEIGHT N/A DROP N/A SAMPLED BY DM LOGGED BY DM REVIEWED BY SDN DESCRIPTION/INTERPRETATION ASPHALT CONCRETE: Approximately 3 inches thick.
-						SC-SM	ALLUVIUM: Brown, dry, medium dense, silty clayey SAND.	
2.5							Total Depth = 2 feet. Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/12/16 shortly after completion of drill	
2.5 —							Notes:	
_							Groundwater, though not encountered at the time of drilling, may rise to a higher lev	
-		-					due to seasonal variations in precipitation and several other factors as discussed in the report.	
-		-					The ground elevation shown above is an estimation only. It is based on our interpretation of published maps and other documents reviewed for the purposes of this evaluation.	
-		_					not sufficiently accurate for preparing construction bids and design documents.	
5 —		_						
-		-						
-		-						
-								
_								
7.5 —								
-		1						
-								
-		-						
_		-						
10_								
		M	77.		&	AAn	BORING LOG FLORENCE PAVEMENT REHABILITATION FLORENCE HEIGHTS DRIVE, FLORENCE, ARIZONA	

PROJECT NO.

605256001

DATE

1/18

FIGURE

B-2

	SAMPLES			Œ)L	J.)L	١٢)L	ıL	_	_	DATE DRILLED11/12/16 BORING NOB-3
eet)	SAN	TOC	(%)	r (PC									
DEPTH (feet)		BLOWS/FOOT MOISTURE (%)	SYMBOL	SIFIC/	METHOD OF DRILLING Hand Sample/Hand Auger								
DEF	Bulk	BLO	MOISTURE (%) DRY DENSITY (PCF)	Y DE	S	CLASSIFICATION U.S.C.S.	DRIVE WEIGHT N/A DROPN/A						
		7		K			SAMPLED BYDM LOGGED BYDM REVIEWED BYSDN						
0							ASPHALT CONCRETE: Approximately 3 inches thick.						
=						SC	ALLUVIUM: Brown, dry, medium dense, clayey SAND; trace coarse gravel.						
_													
_													
-					777		Total Depth = 2 feet.						
2.5 -							Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/12/16 shortly after completion of drilling.						
							Notes:						
							Groundwater, though not encountered at the time of drilling, may rise to a higher level						
-		_					due to seasonal variations in precipitation and several other factors as discussed in the report.						
-							The ground elevation shown above is an estimation only. It is based on our interpretations						
-							of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.						
-													
5 –													
-													
_													
_													
=													
7.5 -													
_													
_													
-													
-		-											
10_													
		A			e i	AAn	BORING LOG FLORENCE PAVEMENT REHABILITATION FLORENCE HEIGHTS DRIVE ELOPENCE ADJZONA						

PROJECT NO.

605256001

DATE

1/18

FIGURE

B-3

DEPTH (feet)	SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 11/12/16 BORING NO. B-4 GROUND ELEVATION 1,533' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING Hand Sample/Hand Auger
DEPTH	Bulk	LOWS	OISTL	DENS	SYM	ASSIF U.S.	DRIVE WEIGHT
	اجًا ه	В	Σ	DRY		CL	SAMPLED BY DM LOGGED BY DM REVIEWED BY SDN
0							ASPHALT CONCRETE: Approximately 4 inches thick.
-		-				SW-SM	ALLUVIUM: Brown, dry, medium dense, well-graded SAND with silt and gravel.
							Total Depth = 2 feet. Groundwater not encountered during drilling.
2.5							Backfilled and asphalt concrete patched on 11/12/16 shortly after completion of drill
-							Notes:
-							Groundwater, though not encountered at the time of drilling, may rise to a higher lev due to seasonal variations in precipitation and several other factors as discussed in the report.
							The ground elevation shown above is an estimation only. It is based on our interpreta
-		-					of published maps and other documents reviewed for the purposes of this evaluation not sufficiently accurate for preparing construction bids and design documents.
5 —							
		-					
		-					
		_					
_		-					
7.5		1					
-							
		_					
-							
		-					
10_							BORING LOG

605256001

DATE

1/18

FIGURE

OEPTH (feet)	Bulk	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	CLASSIFICATION W U.S.C.S.	DRIVE WEIGHT N/A DROP N/A SAMPLED BY DM/JV LOGGED BY DM/JV REVIEWED BY SDN DESCRIPTION/INTERPRETATION ASPHALT CONCRETE: Approximately 1 1/4 inches thick. ALLUVIUM:
- -						Brown, moist, medium dense, silty SAND. Total Depth = 2 feet.
2.5 -						Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/11/16 shortly after completion of drilli
_						Notes:
-						Groundwater, though not encountered at the time of drilling, may rise to a higher leve due to seasonal variations in precipitation and several other factors as discussed in the report.
-						The ground elevation shown above is an estimation only. It is based on our interpreta
-						of published maps and other documents reviewed for the purposes of this evaluation. not sufficiently accurate for preparing construction bids and design documents.
5 —						
-						
_						
_						
7.5						
7.5 -						
_						
-						
-						
10_						BORING LOG

605256001

DATE

1/18

FIGURE

	Bulk	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	METHOD OF DRILLING Hand Sample/Hand Auger DRIVE WEIGHT N/A DROP N/A SAMPLED BY DM/JV LOGGED BY DM/JV REVIEWED BY SDN DESCRIPTION/INTERPRETATION DM/JV DM/JV
-						SM	ASPHALT CONCRETE: Approximately 1 inch thick. ALLUVIUM: Brown, moist, medium dense, silty SAND, trace gravel, trace caliche nodules.
2.5 -		_					Total Depth = 2 feet. Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/11/16 shortly after completion of drill
-		_					Notes:
-							Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-		_					The ground elevation shown above is an estimation only. It is based on our interpreta of published maps and other documents reviewed for the purposes of this evaluation. not sufficiently accurate for preparing construction bids and design documents.
5 -		_					
-		_					
-							
-							
7.5 -							
-							
-							
10_							
		M			&	ΑΑπ	FLORENCE PAVEMENT REHABILITATION FLORENCE GARDENS PHASE 3, FLORENCE, ARIZONA

605256001

DATE

1/18

FIGURE

ASPHALT CONCRETE: Approximately 1 inch thick. AGGREGATE BASE: Approximately 2 1/2 inches thick. ALLUVIUM: Brown, moist, medium dense, silty SAND, trace gravel. Total Depth = 2 feet. Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/11/16 shortly after completion of drillin Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher leve due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretation of the property of t	DEPTH (feet)	Bulk	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DRIVE WEIGHT N/A DROP N/A SAMPLED BYDM/JVLOGGED BYDM/JVREVIEWED BY SDN DESCRIPTION/INTERPRETATION
ALLUVIUM: Brown, moist, medium dense, silty SAND, trace gravel. Total Depth = 2 feet. Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/11/16 shortly after completion of drilling. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher leve due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretat of published maps and other documents reviewed for the purposes of this evaluation. not sufficiently accurate for preparing construction bids and design documents.	0					3 1		
Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/11/16 shortly after completion of drilling. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher leve due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretat of published maps and other documents reviewed for the purposes of this evaluation. not sufficiently accurate for preparing construction bids and design documents.	-		-				SM	AGGREGATE BASE: Approximately 2 1/2 inches thick. ALLUVIUM:
Backfilled and asphalt concrete patched on 11/11/16 shortly after completion of drillin Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher leve due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretat of published maps and other documents reviewed for the purposes of this evaluation not sufficiently accurate for preparing construction bids and design documents.	-					ECCCCCC		
Groundwater, though not encountered at the time of drilling, may rise to a higher leve due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretat of published maps and other documents reviewed for the purposes of this evaluation not sufficiently accurate for preparing construction bids and design documents.	2.5 -		-					Backfilled and asphalt concrete patched on 11/11/16 shortly after completion of drilling
due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretat of published maps and other documents reviewed for the purposes of this evaluation. not sufficiently accurate for preparing construction bids and design documents.	_							Notes:
The ground elevation shown above is an estimation only. It is based on our interpretat of published maps and other documents reviewed for the purposes of this evaluation, not sufficiently accurate for preparing construction bids and design documents.								Groundwater, though not encountered at the time of drilling, may rise to a higher level
The ground elevation shown above is an estimation only. It is based on our interpretat of published maps and other documents reviewed for the purposes of this evaluation, not sufficiently accurate for preparing construction bids and design documents. 7.5	-	\vdash	+					due to seasonal variations in precipitation and several other factors as discussed in the
of published maps and other documents reviewed for the purposes of this evaluation. not sufficiently accurate for preparing construction bids and design documents. 7.5	_		-					
7.5 BORING LOG	-		-					of published maps and other documents reviewed for the purposes of this evaluation. I
BORINGLOG	5 –		-					
BORINGLOG	-	\vdash	-					
BORINGLOG	_		-					
BORINGLOG								
BORINGLOG	-		1					
BORINGLOG	-		-					
BORINGLOG	75-							
BORING LOG	1.5							
BORING LOG	-		+					
BORING LOG	_		_					
BORING LOG	=		_					
BORING LOG	-		1					
	10							RORING LOG

605256001

DATE

1/18

FIGURE

DEPTH (feet)	Bulk Driven SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	GROUND ELEVATION 1,541' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING Hand Sample/Hand Auger DRIVE WEIGHT N/A DROP N/A
							SAMPLED BY DM/JV LOGGED BY DM/JV REVIEWED BY SDN DESCRIPTION/INTERPRETATION
0					(4)	GC	ASPHALT CONCRETE: Approximately 1 inch thick. AGGREGATE BASE: Approximately 1 1/2 inches thick.
-						GC	ALLUVIUM: Brown, moist, medium dense, clayey GRAVEL.
_							Total Depth = 2 feet. Groundwater not encountered during drilling.
2.5 -							Backfilled and asphalt concrete patched on 11/11/16 shortly after completion of drilli
_							Notes:
-							Groundwater, though not encountered at the time of drilling, may rise to a higher leve due to seasonal variations in precipitation and several other factors as discussed in the report.
-							The ground elevation shown above is an estimation only. It is based on our interpretar
-							of published maps and other documents reviewed for the purposes of this evaluation. not sufficiently accurate for preparing construction bids and design documents.
5 -							
-							
-							
_							
_							
7.5 -							
-							
_							
-							
-							
10					1		

605256001

DATE

1/18

FIGURE

AGGREGATE BASE: Approximately 3 inches thick. ALLUVIUM: Brown, moist, medium dense, silty SAND with gravel. Total Depth = 2 feet. Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/11/16 shortly after completion of continuous seasonal variations in precipitation and several other factors as discussed in report. The ground elevation shown above is an estimation only. It is based on our interpretation of the continuous seasonal variation of the continuous seasonal variation only. It is based on our interpretation of the continuous seasonal variation of the continuous seasonal variation on only. It is based on our interpretation of the continuous seasonal variation of the continuous seasonal variation on the continuous seasonal variation		Bulk	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	METHOD OF DRILLING Hand Sample/Hand Auger DRIVE WEIGHT N/A DROP N/A SAMPLED BY DM/JV LOGGED BY DM/JV REVIEWED BY SDN DESCRIPTION/INTERPRETATION DESCRIPTION/INTERPRETATION
Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/11/16 shortly after completion of concepts. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher due to seasonal variations in precipitation and several other factors as discussed in report. The ground elevation shown above is an estimation only. It is based on our interport published maps and other documents reviewed for the purposes of this evaluat not sufficiently accurate for preparing construction bids and design documents.	-		-				SM	AGGREGATE BASE: Approximately 3 inches thick. ALLUVIUM:
of published maps and other documents reviewed for the purposes of this evaluation not sufficiently accurate for preparing construction bids and design documents.	2.5 -							Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/11/16 shortly after completion of drill Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher ledue to seasonal variations in precipitation and several other factors as discussed in the seasonal variations.
	5 -		-					The ground elevation shown above is an estimation only. It is based on our interpre of published maps and other documents reviewed for the purposes of this evaluation not sufficiently accurate for preparing construction bids and design documents.
	7.5 -							
	-		_					

605256001

DATE

1/18

FIGURE

0			DRY DENSITY (PCF)		SM	SAMPLED BY DM/JV LOGGED BY DM/JV REVIEWED BY SDN DESCRIPTION/INTERPRETATION ASPHALT CONCRETE: Approximately 1 inch thick. ALLUVIUM: Brown, moist, medium dense, silty SAND; trace gravel.
-						Total Depth = 2 feet.
2.5 -	_					Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/11/16 shortly after completion of drill
-						Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-						The ground elevation shown above is an estimation only. It is based on our interpreta of published maps and other documents reviewed for the purposes of this evaluation. not sufficiently accurate for preparing construction bids and design documents.
5 -						
-						
-	_					
7.5 -						
-						
-	-					
10	A/i	ni		& 1	AAn	BORING LOG FLORENCE PAVEMENT REHABILITATION FLORENCE GARDENS PHASE 3, FLORENCE, ARIZONA

605256001

DATE

1/18

FIGURE

-				Brown, moist, medium dense, clayey SAND with gravel.
2.5 -				Total Depth = 2 feet. Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/11/16 shortly after completion of drill Notes:
-				Groundwater, though not encountered at the time of drilling, may rise to a higher lev due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretation of the property of the prop
5 —				of published maps and other documents reviewed for the purposes of this evaluation. not sufficiently accurate for preparing construction bids and design documents.
-				
7.5				
-				
-				

605256001

DATE

1/18

FIGURE

-	_				ALLUVIUM: Brown, moist, medium dense, silty SAND, trace gravel, trace clay.
2.5 -					Total Depth = 2 feet. Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/11/16 shortly after completion of drilli
-	_				Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher leve due to seasonal variations in precipitation and several other factors as discussed in the report.
5 —					The ground elevation shown above is an estimation only. It is based on our interpreta of published maps and other documents reviewed for the purposes of this evaluation. not sufficiently accurate for preparing construction bids and design documents.
-					
-					
7.5 -	_				
-					
_10	Ni	in .	&	AAn	BORING LOG FLORENCE PAVEMENT REHABILITATION FLORENCE GARDENS PHASE 4, FLORENCE, ARIZONA

605256001

DATE

1/18

FIGURE

-				SM	ASPHALT CONCRETE: Approximately 1 inch thick. AGGREGATE BASE: Approximately 3 inches thick. ALLUVIUM: Brown, dry, medium dense, silty SAND trace coarse gravel.
2.5 -	-				Total Depth = 2 feet. Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/12/16 shortly after completion of dril Notes:
-	-				Groundwater, though not encountered at the time of drilling, may rise to a higher led due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpret of published maps and other documents reviewed for the purposes of this evaluation not sufficiently accurate for preparing construction bids and design documents.
5	-				
7.5 -	-				
-					
10_	A/i	ın.	& A	AAn	BORING LOG FLORENCE PAVEMENT REHABILITATION FLORENCE GARDENS PHASE 4, FLORENCE, ARIZONA

605256001

DATE

1/18

FIGURE

-	-				ALLUVIUM: Brown, moist, medium dense, silty SAND, trace gravel, trace clay, trace caliche nod
2.5 -					Total Depth = 2 feet. Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/11/16 shortly after completion of drill Notes:
-	-				Groundwater, though not encountered at the time of drilling, may rise to a higher lev due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretation of published maps and other documents reviewed for the purposes of this evaluation.
5 -	_				not sufficiently accurate for preparing construction bids and design documents.
-					
7.5 -	-				
-	_				
10_			Sz A	AAn	BORING LOG FLORENCE PAVEMENT REHABILITATION FLORENCE GARDENS PHASE 4, FLORENCE, ARIZONA

605256001

DATE

1/18

FIGURE

2.5 -					Total Depth = 2 feet. Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/12/16 shortly after completion of dri
-	-				Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpret of published maps and other documents reviewed for the purposes of this evaluation not sufficiently accurate for preparing construction bids and design documents.
5					
7.5 -					
10	Ni)	n	&	AAn	BORING LOG FLORENCE PAVEMENT REHABILITATION FLORENCE GARDENS PHASE 4, FLORENCE, ARIZONA

605256001

DATE

1/18

FIGURE

-						Total Depth = 2 feet. Groundwater not encountered during drilling.
2.5 -						Backfilled and asphalt concrete patched on 11/12/16 shortly after completion of dril Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
5 -						The ground elevation shown above is an estimation only. It is based on our interpret of published maps and other documents reviewed for the purposes of this evaluation not sufficiently accurate for preparing construction bids and design documents.
-						
7.5 -						
10_	N/i	n	io:	& 1	ΛΛΩ	BORING LOG FLORENCE PAVEMENT REHABILITATION FLORENCE GARDENS PHASE 4, FLORENCE, ARIZONA

605256001

DATE

1/18

FIGURE

-				SM	ASPHALT CONCRETE: Approximately 1/2 inch thick. ALLUVIUM: Brown, dry, medium dense, silty SAND with gravel.
2.5 -					Total Depth = 2 feet. Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/12/16 shortly after completion of dril Notes:
-	-				Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpret of published maps and other documents reviewed for the purposes of this evaluation not sufficiently accurate for preparing construction bids and design documents.
5					
7.5					
-					
10_		n	Sz A	AAn	BORING LOG FLORENCE PAVEMENT REHABILITATION FLORENCE GARDENS PHASE 4, FLORENCE, ARIZONA

605256001

DATE

1/18

FIGURE

0				SM	ASPHALT CONCRETE: Approximately 1 inch thick. ALLUVIUM: Brown, dry, medium dense, silty SAND, few fine to coarse gravel.
-					
-					Total Depth = 2 feet. Groundwater not encountered during drilling.
2.5 -	-				Backfilled and asphalt concrete patched on 11/12/16 shortly after completion of drilling
-	-				Notes: Croundwater though not encountered at the time of drilling, may rise to a higher level.
-	-				Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-	_				The ground elevation shown above is an estimation only. It is based on our interpretation
-	_				of published maps and other documents reviewed for the purposes of this evaluation. It not sufficiently accurate for preparing construction bids and design documents.
5 –	_				
-	-				
-	_				
-					
-	-				
7.5 -	-				
-					
_					
_					
=					
-	-				
10_	A #3			A A -	BORING LOG
	ΛII	1/1	&	$\pi \pi \pi$	FLORENCE PAVEMENT REHABILITATION HUNT HIGHWAY, FLORENCE, ARIZONA

605256001

DATE

1/18

FIGURE

	SES						DATE DRILLED	11	/12/16	BORIN	G NO.		B-19	
et)	SAMPLES	TOO	(%)	(PCF		NOIL .	GROUND ELEVATION							1
DEPTH (feet)		BLOWS/FOOT	MOISTURE (%)	NSITY	SYMBOL	IFICA S.C.S	METHOD OF DRILLI							
DEP	Bulk	BLOV	MOIS	DRY DENSITY (PCF)	S	CLASSIFICATION U.S.C.S.	DRIVE WEIGHT		N/A		_ DROP _		N/A	
				9		0	SAMPLED BYDI		LOGGED BY			BY _	SDN	
0						SW-SM	ASPHALT CONCRE							
-							ALLUVIUM: Brown, dry, medium	dense, v	vell- graded SA	ANDwith	silt and grave	1.		
2.5 –							Total Depth = 2 feet. Groundwater not enco Backfilled and asphal				shortly after c	ompl	etion of d	rilling.
							Notes:				·	_		
-							Groundwater, though due to seasonal variat report.							
-							The ground elevation	shown	above is an est	imation o	nly. It is base	d on o	our interpi	retations
-							of published maps and not sufficiently accura							on. It is
5 –		-												
-		-												
_														
-														
7.5 –														
1.0														
-														
-														
-		_												
_		_												
10_														
		A #2			_			BORING LOG FLORENCE PAVEMENT REHABILITATION						
		7//	14	U	Š	\mathbf{M}_{I}	ore	PR		ΓHIGHWAY	T, FLORENCE, AR			

605256001

1/18

0				SM	ASPHALT CONCRETE: Approximately 1 inch thick. ALLUVIUM: Brown, dry, medium dense, silty SAND, few fine to coarse gravel.
-					
					Total Depth = 2 feet. Groundwater not encountered during drilling. Poslefilled and combalt congrete notabed on 11/12/16 shoutly often completion of drilling.
2.5 —					Backfilled and asphalt concrete patched on 11/12/16 shortly after completion of drilling Notes:
_					Groundwater, though not encountered at the time of drilling, may rise to a higher level
_	-				due to seasonal variations in precipitation and several other factors as discussed in the report.
-					The ground elevation shown above is an estimation only. It is based on our interpretation of published maps and other documents reviewed for the purposes of this evaluation. It not sufficiently accurate for preparing construction bids and design documents.
5 —	-				
-	-				
-					
-	_				
_	_				
7.5 —	-				
_	_				
_	-				
-	-				
-	-				
10	A //		0	440	BORING LOG FLORENCE PAVEMENT REHABILITATION HUNT HIGHWAY, FLORENCE, ARIZONA

605256001

DATE

1/18

FIGURE

-	-				Total Depth = 2 feet.
2.5 -	-				Groundwater not encountered during drilling. Backfilled and asphalt concrete patched on 11/12/16 shortly after completion of drilling Notes:
-					Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-	-				The ground elevation shown above is an estimation only. It is based on our interpretatio of published maps and other documents reviewed for the purposes of this evaluation. It not sufficiently accurate for preparing construction bids and design documents.
5 -	-				
-					
-	_				
7.5 -	-				
-	-				
10_					PODING LOG
	Mi	71	&	M	BORING LOG FLORENCE PAVEMENT REHABILITATION HUNT HIGHWAY, FLORENCE, ARIZONA

605256001

DATE

1/18

FIGURE

APPENDIX B

GEOTECHNICAL LABORATORY TESTING

Classification

Soils were visually and texturally classified in accordance with the Unified Soil Classification System (USCS) in general accordance with ASTM D 2488. Soil classifications are indicated on the logs of the exploratory borings in Appendix A.

Gradation Analysis

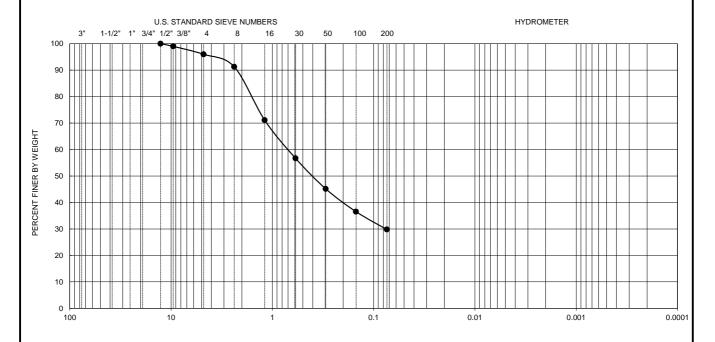
A gradation analysis test was performed on a selected representative soil samples in general accordance with ASTM D 422. The grain-size distribution curves are shown on Figure B-1 through B-8. These test results were utilized in evaluating the soil classifications in accordance with the Unified Soil Classification System.

Atterberg Limits

Tests were performed on selected representative fine-grained soil samples to evaluate the liquid limit, plastic limit, and plasticity index in general accordance with ASTM D 4318. These test results were utilized to evaluate the soil classification in accordance with the Unified Soil Classification System. The test results and classifications are shown on Figure B-9.



	GRAV			SAND		FINES			
ſ	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		

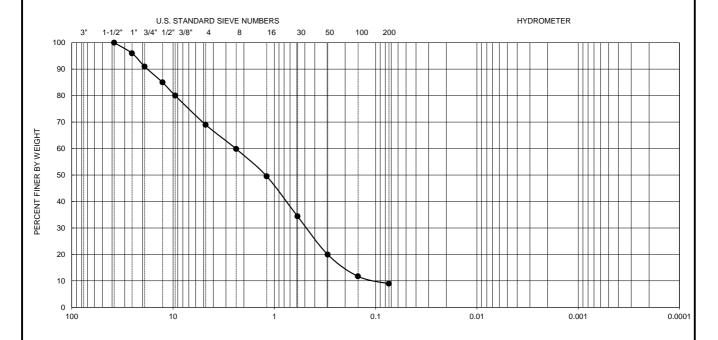


Symbol	Hole No.	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	Cu	C _c	Passing No. 200 (%)	U.S.C.S
•	B-2	0.25-2.0	24	19	5						30	SC-SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

<i>Ninyo</i> «	Woore	GRADATION TEST RESULTS	FIGURE	
PROJECT NO.	DATE	FLORENCE PAVEMENT REHABILITATION TOWN OF FLORENCE, ARIZONA	B-1	
605256001	1/18	TOWN OF FEORENCE, ANIZOVA	D-1	

	GRAV	'EL		SAND			FINES			
ſ	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay			



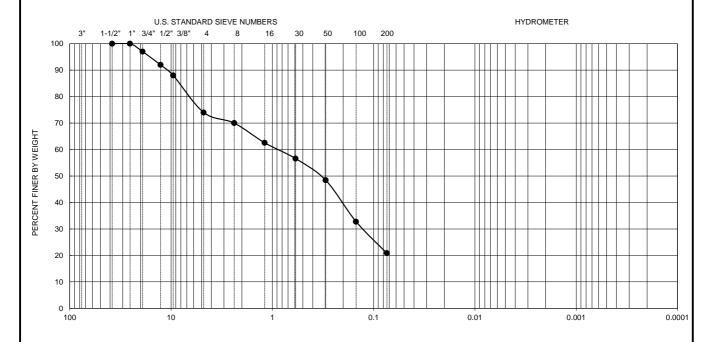
Symbol	Hole No.	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	Cu	C _c	Passing No. 200 (%)	U.S.C.S
•	B-4	0.3-2.0			NP	0.10	0.48	2.30	23.0	1.0	9	SW-SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

NP - INDICATES NON-PLASTIC

Ninyo	Moore	GRADATION TEST RESULTS	FIGURE	
PROJECT NO.	DATE	FLORENCE PAVEMENT REHABILITATION TOWN OF FLORENCE, ARIZONA	R_2	
605256001	1/18	TOWN OF FERRENCE, AND EAST	D-Z	

GRAV	EL		SAND		FINES Silt Clay			
Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		



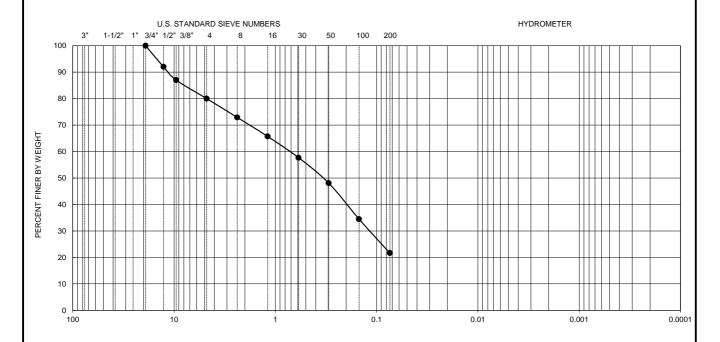
Symbol	Hole No.	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	Cu	C _c	Passing No. 200 (%)	U.S.C.S
•	B-6	0.1-2.0	25	20	5						21	SC-SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

NP - INDICATES NON-PLASTIC

Ninyo	Moore	GRADATION TEST RESULTS	FIGURE
PROJECT NO.	DATE	FLORENCE PAVEMENT REHABILITATION TOWN OF FLORENCE, ARIZONA	B-3
605256001	1/18	TOWN OF FEORENCE, ANIZONA	D-3

GRAV	'EL	SAND			FINES			
Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		

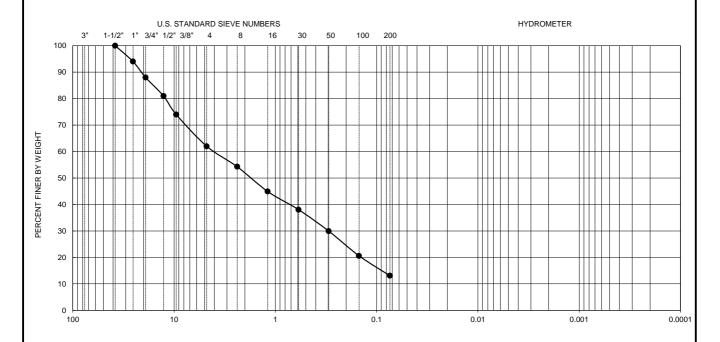


Symbol	Hole No.	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	Cu	C _c	Passing No. 200 (%)	U.S.C.S
•	B-9	0.3-2.0	31	28	3						22	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

<i>Ninyo</i> «	Woore	GRADATION TEST RESULTS	FIGURE
PROJECT NO.	DATE	FLORENCE PAVEMENT REHABILITATION TOWN OF FLORENCE, ARIZONA	R ₋ /
605256001	1/18	TOWN OF FEORENCE, ANZONA	D-4

GRAV	'EL		SAND		FINES				
Coarse	Fine	Coarse	Medium	Fine	Silt	Clay			

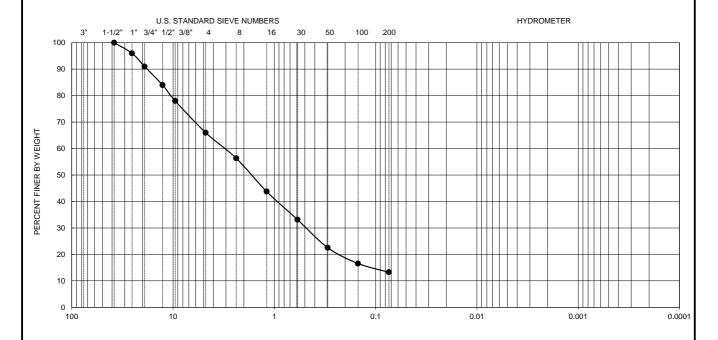


S	ymbol	Hole No.	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	Cu	Сс	Passing No. 200 (%)	U.S.C.S
	•	B-11	0.25-2.0	31	20	11	1			-	-	13	SC

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

<i>Ninyo</i> «	Woore	GRADATION TEST RESULTS	FIGURE
PROJECT NO.	DATE	FLORENCE PAVEMENT REHABILITATION TOWN OF FLORENCE, ARIZONA	R-5
605256001	1/18	TOWN OF FEORENCE, ANIZOVA	D-3

GRAV			SAND		FINES			
Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		



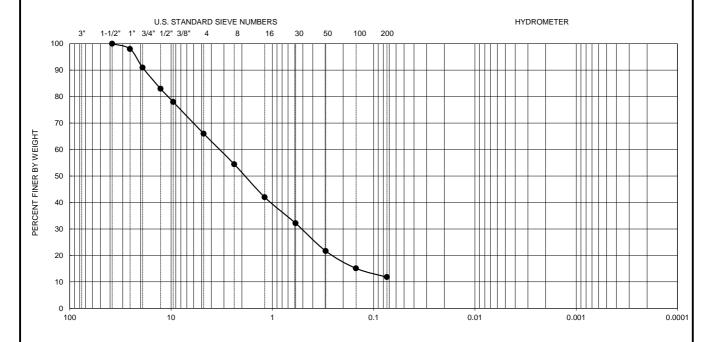
Syr	mbol	Hole No.	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	Cu	Сс	Passing No. 200 (%)	U.S.C.S
	•	B-17	0.1-2.0	1		NP	-				-	13	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

NP - INDICATES NON-PLASTIC

Ninyo	Moore	GRADATION TEST RESULTS	FIGURE
PROJECT NO.	DATE	FLORENCE PAVEMENT REHABILITATION TOWN OF FLORENCE, ARIZONA	B-6
605256001	1/18	TOWN OF FERRENCE, ANIZONA	D-0

	GRAV	'EL		SAND			FINES
ſ	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay



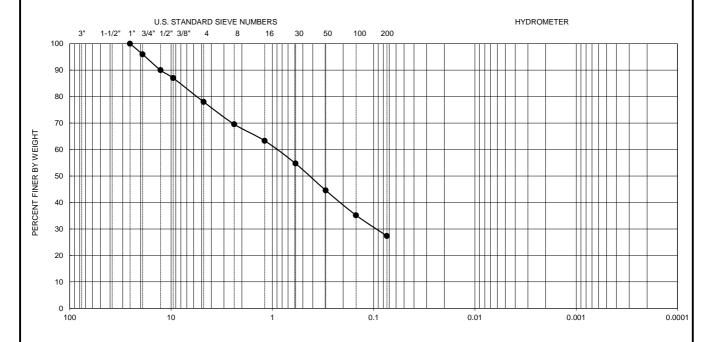
Symbol	Hole No.	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	Cu	C _c	Passing No. 200 (%)	U.S.C.S
•	B-19	0.1-2.0			NP	0.07	0.50	3.20	43.2	1.1	12	SW-SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

NP - INDICATES NON-PLASTIC

Ninyo	Woore	GRADATION TEST RESULTS	FIGURE
PROJECT NO.	DATE	FLORENCE PAVEMENT REHABILITATION TOWN OF FLORENCE, ARIZONA	R_7
605256001	1/18	TOWN OF FERRENCE, ANIZONA	D-1

	GRAV			SAND			FINES
ſ	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay



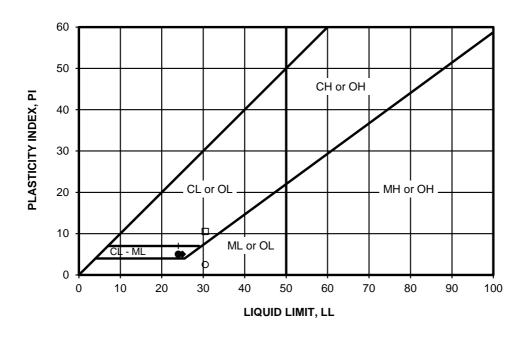
Symbol	Hole No.	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	Cu	C _c	Passing No. 200 (%)	U.S.C.S
•	B-21	0.1-2.0	24	17	7						27	SC-SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

<i>Ninyo</i> «	Woore	GRADATION TEST RESULTS	FIGURE
PROJECT NO.	DATE	FLORENCE PAVEMENT REHABILITATION TOWN OF FLORENCE, ARIZONA	R-Q
605256001	1/18	10111 01 1 2012 NO. 120141	D-0

SYMBOL	LOCATION	DEPTH (FT)	LIQUID LIMIT, LL	PLASTIC LIMIT, PL	PLASTICITY INDEX, PI	USCS CLASSIFICATION (Fraction Finer Than No. 40 Sieve)	USCS (Entire Sample)
•	B-2	0.25-2.0	24	19	5	CL-ML	SC-SM
-	B-4	0.3-2.0			NP	ML	SW-SM
•	B-6	0.1-2.0	25	20	5	CL-ML	SC-SM
0	B-9	0.3-2.0	31	28	3	ML	SM
	B-11	0.25-2.0	31	20	11	CL	SC
Δ	B-17	0.1-2.0				ML	SM
×	B-19	0.1-2.0			NP	ML	SW-SM
+	B-21	0.1-2.0	24	17	7	CL-ML	SC-SM

NP - INDICATES NON-PLASTIC



PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 4318

Ninyo s	Moore	ATTERBERG LIMITS TEST RESULTS	FIGURE
PROJECT NO.	DATE	FLORENCE PAVEMENT REHABILITATION TOWN OF FLORENCE, ARIZONA	B-9
605256001	1/18	- TOWN OF PEORENCE, ARIZONA	D-9

APPENDIX C

24-HOUR TRAFFIC COUNT DATA



Appendix C-1

Florence Heights Drive



ALL JDF files : ALL RDF files : ALL RDF files : ALL Time Mark Traffi :

24 Hour Classification

Channel 1

>6 Axle Multi 00000000000000 0000000 0.0 6 Axle Multi 00 00000 0.0 <6 Axle Multi 0000H000000000 0000000 >6 Axle Double 0000000 5 Axle Double 0 4 K 0 H H 0 6 6 6 6 6 6 6 81 <5 Axle Double $\begin{picture}(60,0)(20,0)($ 000000 10 4 Axle Single 0000000 0.0 0 3 Axle Single 000000000000 0000000 0.5 2 Axle 6 Tire 0001033740000 10104 12 ∞ 87 0 + 0 0 0 0 + + 0 0 0 0 0 0 0000111 34 Buses 2 Axle Long 34 119 116 129 227 227 223 23 24 24 7 7 7 7 0 0 23.3 5 4 7 21 72 72 93 Cars & Trailers Motor Bikes $\circ \circ$ 400000000000 00000400 0.3 4 Total 01 01 01 126 134 177 1484 4 0 6:00 PM 7:00 PM 8:00 PM 9:00 PM 10:00 PM 1:00 PM 2:00 PM 3:00 PM Interval Start 9:00 AM 11:00 AM 1:00 AM 8:00 AM 10:00 AM 12:00 PM 4:00 PM 5:00 PM 11:00 PM 12/7/2016 12:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM Total 7:00 AM

۱۰

ALL JDF files
ALL RDF files
ALL Time Mark Traffi

24 Hour Classification

Site: 000000000000 12/7/2016 Wednesday

Interval Start Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	s Axie Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	 o Axie Multi	o Axie Multi	>6 Axle Multi
8:00 AM 134	0	93	32	-1	4	0	0	0	4	0	0	0	0
9:00 AM 70	0	35	24	0	4	0	0	2	2	0	0	0	0
10:00 AM 97	19	46	19	က	ო	ᆏ	0	- -	IJ	0	0	0	0
11:00 AM 82	1	47	28	1	2	0	0	0	3	0	0	0	0
	, - 1	20	22	7	9	0	0		6	0	0	0	0
1:00 PM 107	0	62	23	8	9	0	0	Ţ	7	0	0	0	0
	ᆏ	38	13	0	ιΩ	₩	0	Н	2	0	0	0	0
3:00 PM 61	1	23	23	0	9	0	0	0	2	0	0	0	0
4:00 PM 66	0	39	21	0	-	0	0	Ŧ	4	0	0	0	0
5:00 PM 63	0	40	19	Т	2	0	0	T	0	0	0	0	0
	0	23	ო	0	2	0	0	0	 1	0	0	0	0
7:00 PM 22	0	16	4	0	0	0	0	0	2	0	0	0	0
	н	22	10	0	0	0	0	0		0	0	0	0
9:00 PM 57	0	41	12	0	2	0	0	0	2	0	0	0	0
	0	10	₽	0	0	0	0	Н	0	0	0	0	0
11:00 PM 3	0	3	0	0	0	0	0	0	0	0	0	0	0
12:00 AM 9	0	വ	2	-	0	0	0	0		0	0	0	0
1:00 AM 10	0	5	2	0	0	0	0	0	3	0	0	0	0
2:00 AM 14	0	9	2	0	ਜ ਼	0	0	0	Ŋ	0	0	0	0
3:00 AM 10	0	9	0	0	т	0	0	0	3	0	0	0	0
	0	19	6	7	2	0	0	0	9	0	0	0	0
	0	85	42	4	15	0	0	0	7	0	0	0	0
6:00 AM 135	0	93	33	0	φ	0	0		2	0	0	0	0
7:00 AM 181	0	117	36	4	11	0	0	1	12	0	0	0	0
Total 1539	24	930	380	27	79	2	0	11	86	0	0	0	0
%	1.6	60.4	24.7	1.8	5.1	0.1	0.0	0.7	5,6	0.0	0.0	0.0	0.0

ALL JDF files
ALL RDF files
ALL Time Mark Traff)

24 Hour Classification

Site: 000000000000 12/8/2016 Thursday

>6 Axle Multi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	С	0	0	(
6 Axle Multi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	C	0	0	(
<6 Axle Multi	0	0	-	0	0	0	0	H	0	0	0	0	0	0	0	0		0	0	0	0	O	0	7	1
>6 Axle Double	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0		0	0	0	0	0	0	₽	
5 Axle Double	4	9	4	7	Ŋ	4	9	2	7 ⊷1	Ţ	н	T	ᆏ	1	-	2		4	3	က	m	7	3	70	
<5 Axle Double	2	T	7	2		4	2	1	0	0	0	0	7-1	0	0	0		0	0	0	0	0	0	16	
4 Axle Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	
3 Axle Single	0	0	-	0	0	1	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	7	
2 Axle 6 Tire		4	œ	4	ო	12	22	4	m	2	 1	Ħ	7	H	0	0		0	0	7	7	ю	12	69	
Buses	₩	0	Ŋ	1	0	7	0	0	0	2	ᆏ	C	0	0	₩.	0		0	0	0	0	2	5	25	
2 Axle Long	39	19	13	24	25	35	19	19	16	22	9	10	4	10	0	0		7	4	4	1	æ	28	308	
Cars & Trailers	71	32	54	48	44	89	32	38	47	35	21	12	20	40	9	4		ო	8	ნ	5	17	77	712	
Motor Bikes	0	0	0	2	Ħ	7	Ħ	0	0	2	0	0	0	0	0	0		0	0	0	0	0	2	σ	
Total	118	62	88	88	79	153	65	65	29	64	31	24	78	- 52	Ø	9		6	15	18	10	37	127	1214	
Interval Start	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	12/9/2016	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	Total	i

Ι,

ALL IDF files :
ALL RDF files :
ALL Time Mark Traffi :

24 Hour Classification

Site: 000000000000 12/6/2016 Tuesday

				*																		**.					
>6 Axle Multi	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	Ħ	0.1
6 Axle Multi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0.0
<6 Axle Multi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0.0
>6 Axle Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0.0
5 Axle Double	2	0	0	0	0	0	₩-1	2	0	0	0	T	0	0	0	0		0	0	П	0	1	T	0	4	13	1.0
<5 Axle Double	Ħ	0	0	0	ю	e	m	Ŧ	0	T	1	0	0	0	0	0		0	0	0	0	₩	0	0	0	14	1.1
4 Axle Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0.0
3 Axle Single	T	0	0	2	1	T	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	ß	0.4
2 Axle 6 Tire	6	n	ស	7	Ŋ	ស	7	9	9	7	7	ო	2	2	0	0		, 	0	0	0	2	3	4	1	80	6.3
Buses	6	2	₩.	0	4	0	#	T	9	0	0	0	0	0	0	0		0	0	0	0	0	0	0	1	25	2.0
2 Axle Long	8	ထ	22	21	15	20	56	33	21	17	13	6	က	2	11	2		0	1	0	2	m	1	9	8	252	19.7
Cars & Trailers	56	34	34	47	49	58	81	107	78	92	48	34	15	33	24	S		Ŋ	8	m	0	œ	23	35	31	878	9.89
Motor Bikes	0	Ţ	0	T	m	П	H	0	₩	0	0	0	0	Ħ	0	0		0	0	0	0	0	0	0	2	11	6.0
Total	26	48	63	78	80	88	120	150	112	117	64	47	70	38	35	7		ဖ	6	4	2	15	28	45	47	1279	
Interval Start	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	● MG 00:6	10:00 PM	11:00 PM	12/7/2016	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	Total	%

u

ALL JDF files : ALL RDF files : ALL Time Mark Traffi :

24 Hour Classification

Site: 000000000000 12/7/2016 Wednesday

e 6 Axle >6 Axle di Multi Multi	0	0	0	0	0	0	0	0	0 0 (0	0	0	0	0	0	0		0	0 0 0	0	0	0	0 0	0	0	0 0	0
>6 Axie <6 Axie Double Multi				50 125 135 135 135 135 135 135 135 135 135 13			0 0		0	0 0			0 0					0	0 0		0 0		0 0	0	0 0	0	
e 5 Axle e Double	1000) 1 J			0 2			0 0					0 0				0 0) 1			, 20	•
4 Axle <5 Axle Single Double	7774 (2007) 114 (1004) 274 (1004)			0			0						0			0		0	0	0) 0		0 0		0	0 7	
3 Axle 4 Single Si	0	0	 1	0	0	1	н	0	0	0	0	0	0	0	0	0		0	0	0	0	H	0	0	0	4	ć
2 Axle 6 Tire	09601107201770000000000						7			3						0		0	0	0	0	4	0	₩ -1	9	78	•
e g Buses	TO SETTING THE SET OF THE SET								9									0]					1 2			3 26	,
& 2 Axle s Long	2 8								2 20				3					5	5 0	4	2 0		0 4			5 243	•
r Cars & Trailers) 47) 39		Ċ) 82	10) 21		Α.	4				_			20	. 22	35	1 895	70.7
Motor Bikes		0					0	0	0		0	0		0	-	0		0	0	.	0	0	0	-	0	4	Ç
Total	29	48	61	- 64	74	83		139		131		21	27	35	34	Ŋ			5	^	2			28	91	1277	
Interval Start	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	M4 00:7	8:00 PM	M4 00:6	10:00 PM	11:00 PM	12/8/2016	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	Total	%

ALL JDF files
ALL RDF files
ALL Time Mark Traffi

24 Hour Classification

Interval Start Total	Motor tal Bikes	or Cars &		2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
7	41	0	24	9	9	က	0	0	 1	-	0	0	0	0
7	48	0	32	Ħ	H	2	Н	0	0	1	0	0	0	0
,	61	 1	39	15	0	S	0	0	0	1	0	0	0	0
		H	46	22	0	9	0	0	0	0	0	0	0	0
•		0	51	18	1	m		0	-	0	0	0	0	0
11	100	1	61	24	0	11	1	0	2	0	0	0	0	0
딤		0	92	37		9	0	0	-	0	0	0	0	0
	145	1	40	33	2	5	0	0	0	1	0	0	0	0
4:00 PM 12		0	72	30	7	6	0	0	П	7	0	0	0	0
	134	T	110	17	0	9	0	0	0	0	0	0	0	0
u I			46	ø	0	ღ	0	0	₩	0	0	0	0	0
	28	0	19	S	Ŧ	2	0	0	0	0	0	T	0	0
1.12		0	19	7	0	н	0	0	0	0	0	0	0	0
17	28	0	19	8	т	0	0	0	0	0	0	0	0	0
4			35	S	0	0	0	0	0	0	0	0	0	0
	Ω.	0	က	2	0	0	0	0	0	0	0	0	0	0
12:00 AM 1		0	7	₩	0	0	0	0	0	7	0	0	0	0
	5	0	က	2	0	0	0	0	0	0	0	0	0	0
	9	0	21	v− í	0	0	0	0	0	0	0	0	0	0
3:00 AM	4	0	e	T	0	0	0	0	0	0	0	0	0	0
	0	0	9	ო	0	0	0	0	0	0	0	0	0	С
6)	30	0	18	6	2	0	0	0	0	Ŧ	0	0	0	0
1187		4 8:	814	265	22	62	ო	0	7	6	0	Ħ	0	0
	0.3		9.89	22.3	1.9	5.2	0.3	0.0	9.0	8'0	0.0	0.1	0.0	0.0

ALL RDF files ALL JDF files

ALL Time Mark Traffi

Daily Volume (Volume factor 0.500)

12/6/2016 Tuesday

Site: 0000000000000

1544 3174 Combined Combined 0.76 Combined 1:15 PN 7:30 AM 508 0.87 481 12:00 AM - 12:00 PM 12:00 PM - 12:00 AM Sensor B 1584 (49.9%) Sensor B 770 (49.9%) 2354 (49.9%) Volume Totals 0.77 Sensor B 239 7:30 AM 1:15 PM 254 0.87 Peak Hours 12:00 PM - 12:00 AM 1590 (50.1%) 12:00 AM - 12:00 PM 774 Sensor A Sensor A 2364 (50.1%) (50.1%)Sensor A 0.76 7:30 AM 242 1:15 PM 0.87 254 24 Hours Started Started Volume Factor Factor 476 204 5 346 403 172 8 R 95 Combined 238 200 86 201 101 4 15 225 202 103 98 8 12:05 PM 12:15 PM 12:15 PM 12:15 PM 12:15 PM 1:15 PM 1:15 PM 1:15 PM 1:15 PM 2:30 PM 2:30 PM 2:30 PM 2:30 PM 3:30 PM 3:30 PM 3:35 PM 3:36 PM 5:00 PM 5:15 PM 5:15 PM 6:15 PM 6:15 PM 6:15 PM 6:15 PM 6:15 PM 7:10 PM 7:15 PM 7:15 PM 7:15 PM 8:10 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 10:00 PM 10:15 PM 10:30 PM 10:45 PM 11:00 PM 11:15 PM 11:30 PM 11:45 PM 264 352 430 Combined 109 132 139 176 Sensor B 21 216 132 140 Sensor A 12:00 AM
12:15 AM
12:15 AM
12:15 AM
11:15 AM
11:15 AM
11:10 AM
11:15 AM
11:10 AM
11:15 AM
11:10 AM
11: Interval Start

ALL RDF files ALL JDF files

ALL Time Mark Traffi

Daily Volume (Volume factor 0.500)

12/7/2016 Wednesday

Site: 0000000000000

3148 2846 5994 Combined 443 Combined 7:15 AM 495 0.86 Combined 0.82 4:30 PM 12:00 AM - 12:00 PM 12:00 PM - 12:00 AM Sensor B 1420 (49.9%) 1575 (50.0%) 2995 (50.0%) Sensor B 0.86 Sensor B Volume Totals 247 0.82 7:15 AM 4:30 PM 222 Peak Hours 12:00 PM - 12:00 AM 1573 (50.0%) 12:00 AM - 12:00 PM Sensor A 1426 (50.1%)Sensor A Sensor A 98.0 0.82 (50.0%)7:15 AM 248 4:30 PM 221 24 Hours Volume Factor Factor 362 416 194 388 424 396 391 190 150 16 95 Combined ထာမဝဌဝ 181 208 194 196 95 47 198 194 195 12:00 PM 12:15 PM 12:15 PM 12:15 PM 12:00 PM 13:00 PM 23:00 PM 23:00 PM 33:00 PM 33:15 PM 33:15 PM 345 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:29 PM 6:00 PM 6:00 PM 6:30 PM 6:30 PM 7:30 PM 7:30 PM 7:30 PM 7:30 PM 8:30 PM 8:30 PM 8:30 PM 9:00 PM 9:15 PM 9:30 PM 9:45 PM 10:00 PM 10:15 PM 10:30 PM 10:45 PM 11:00 PM 11:15 PM 11:30 PM 11:45 PM Interval Start 33 22 46 150 343 366 308 262 347 Combined 202 282 283 283 284 884 884 884 1111 1111 1111 1102 28 171 183 213 240 131 173 153 Sensor 23 16 28 183 242 131 174 155 Sensor A 12:00 AM 12:15 AM 12:15 AM 12:15 AM 1:00 AM 1:15 AM 1:15 AM 2:00 AM 2:15 AM 2:15 AM 3:10 AM 3:10 AM 3:10 AM 3:10 AM 3:10 AM 4:10 AM 4:30 AM 5:00 AM 5:15 AM 5:43 AM 6:00 AM 6:15 AM 6:15 AM 6:15 AM 7:15 AM 7:15 AM 7:15 AM 7:15 AM 8:15 AM 8:15 AM 8:15 AM 10:00 AM 10:15 AM 10:30 AM 10:45 AM 11:00 AM 11:15 AM 11:30 AM 11:45 AM 8:45 AM 9:00 AM 9:15 AM 9:30 AM 9:45 AM Interval Start

ALL JDF files
ALL RDF files
ALL Time Mark Traffi

Daily Volume (Volume factor 0.500)

Site: 000000000000 12/8/2016 Thursday

			Combined		2830				3239	The second secon		1	8909								Combined			6:45 AM		537		•	96'0			Combined		1:00 PM		079	240		0.89							
	Volume Totale	inile loldis	Sensor B		1413	(49.9%)			1619	(20.0%)	•	!	3032	(20.0%)			Doak Houre			12:00 AM - 12:00 PM	Sensor B		;	6:45 AM		269		4	0.96		12:00 PM - 12:00 AM	Sensor B		1:00 PM		02.0	7/0		0.89							
	\$		Sensor A	12:00 AM - 12:00 PM	1416	(50.1%)	(2) = (2)	12:00 PM - 12:00 AM	1620	(20.0%)	24 Hours		3036	(20.0%)			Δ	-		12:00	Sensor A		Started	6:45 AM	Volume	268	יייי		0.96		12:00	Sensor A	Started	1:00 PM	Volume	71100		Factor	0.89							
Ď	328	1			540				435				442				393				400				184			001	100			116	-		164			_	101				28			
Combined	80	£	96	2	128	152	152	108	113	144	88	8	116	108	120	98	96	79	114	104	142	116	84	28	20	9 2	y 4	35	8 8	9 2	16	26	4	18	36	4	%	93	65	54	œ	4	12	v ·	~	8
.	164				270				217				221				197				200				95			2	ţ			28			83				20				14			
Sensor B	40	. 1	4 4	35	64	9,6	76	54	56	72	44	54	58	54	90	49	48	40	23	25	71	28	42	59	52	82 5	Ž 5	g q	2 5	13	83	£‡	22	g) 2	1 8	32	17	15	32	12	4	2	9	ന	п	4
	164				270				218				221				196				200				35			2	ξ.			58			83	!			51				14			
Sensor A	40	4	. 8	32	64	92	76	54	22	75	44	45	28	54	90	49	48	39	23	52	71	28	42	29	25	æ ç	4 5	2	5 17	13	80	13	22	D 2	18	32	17	15	33	12	4	2	9	m ·		4
Interval Start	12:00 PM	12:15 PM	12:30 PM	12:45 PM	1:00 PM	1:15 PM	1:30 PM	1:45 PM	2:00 PM	2:15 PM	2:30 PM	2:45 PM	3:00 PM	3:15 PM	3:30 PM	3:45 PM	4:00 PM	4:15 PM	4:30 PM	4:45 PM	5:00 PM	5:15 PM	5:30 PM	5:45 PM	6:00 PM	6:15 PM	6:30 PM	2.00 PM	7:15 PM	7:30 PM	7:45 PM	8:00 PM	8:15 PM	8:30 PM	MG 00:6	9:15 PM	9:30 PM	9:45 PM	10:00 PM	10:15 PM	10:30 PM	10:45 PM	11:00 PM	11:15 PM	11:30 PM	11:45 PM
	32	!			38				58				32				146				387				337			537	, r			333			757				320				352			!
Combined	12	4	· &	8	8	4	78	8	16	10	12	20	12	4	ထ	8	22	28	40	56	48	100	96	143	09 l	> 5	8 6	136	137	124	140	112	6	8 4	2 2	20.	65	9	84	68	35	76	108	92	85	8
	16	i			19			•	53				16				73				193				168			260	603			166			128	•			160				176			
Sensor B	9	7	। च	4	ব	2	Φ	4	ω	ភ	9	10	9	73	4	4	닭	44	20	58	24	S	48	71	၉ :	20 6	3 5	9	8 %	62	70	56	48	გ. ტ. დ	38	78	32	30	42	34	46	38	24	38	41	5
	16				19				53				16				73				194				169			368	700			167			129	İ			160				176			
Sensor A	9	2	ব	4	4	N	ው	4	ထ	ស	9	10	9	7	4	4	11	14	20	28	24	20	48	72	ස :	56	3 8	89	3 6	62	70	56	6	ξ. 4. α	38	78	33	30	42	9. 4.	46	38	54	38	41	63
Interval Start	12:00 AM	12:15 AM	12:30 AM	12:45 AM	1:00 AM	1:15 AM	1:30 AM	1:45 AM	2:00 AM	2:15 AM	2:30 AM	2:45 AM	3:00 AM	3:15 AM	3:30 AM	3:45 AM	4:00 AM	4:15 AM	4:30 AM	4:45 AM	5:00 AM	5:15 AM	5:30 AM	5:45 AM	6:00 AM	6:15 AM	6:30 AM	7.00 AM	7:15 AM	7:30 AM	7:45 AM	8:00 AM	8:15 AM	8:30 AM	9:00 AM	9:15 AM	9:30 AM	9:45 AM	10:00 AM	10:15 AM	10:30 AM	10:45 AM	11:00 AM	11:15 AM	11:30 AM	11:45 AM

Combined

12:00 PM - 12:00 AM or A Sensor B

Sensor A

Started

Volume

Factor

Daily Volume (Volume factor 0.500) ALL JDF files
ALL RDF files
ALL Time Mark Traffi

Site: 000000000000 12/9/2016 Friday

			Combined		202				0	Male N		70.							Σ	Combined			5:15 AM		342		0.82
	Volume Totals	4	Sensor B	Σ	350	/49		Σ	0		C C	320	(49.9%)			Dook House	e mon ve		12:00 AM - 12:00 PM	Sensor B			5:15 AM		170		0.82
	, lo	(Sensor A	12:00 AM - 12:00 P	352	(50.1%)	(0, 1:00)	12:00 PM - 12:00 AM	0	24 Hours		352	(50.1%)			à			12:00	Sensor A		Started	5:15 AM	Volume	172	Factor	0.83
Combined																											
Sensor B																											
Sensor A																											
Interval Start																											
P	58				48				56				34				114				333				23		
Combined	12	10	16	20	7	12	18	16	12	16	20	80	9	4	ω	16	16	12	30	56	50	87	104	92	23		
В	62				24				28				17				57				166				53		
Sensor B	9	w	ထ	뭐	e-1	9	Φ	ထ	9	ω	10	4	m	73	4	8	8	9	15	28	25	4 0	25	46	59		
4	29				\$₹				28				17				57				167				90		
Sensor A	9	ស	ထ	10	₩.	9	O)	8	9	ဆ	10	4	m	73	4	8	8	9	15	28	22	44	25	46	9		
Interval Start	12:00 AM	12:15 AM	12:30 AM	12:45 AM	1:00 AM	1:15 AM	1:30 AM	1:45 AM	2:00 AM	2:15 AM	2:30 AM	2:45 AM	3:00 AM	3:15 AM	3:30 AM	3:45 AM	4:00 AM	4:15 AM	4:30 AM	4:45 AM	5:00 AM	5:15 AM	5:30 AM	5:45 AM	6:00 AM		

Appendix C-1

Hunt Highway



ALL JDF files Site: 000000000000

1/5/2017 Thursday ALL RDF files ALL Time Mark Traffi :

24 Hour Classification

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
12:00 AM	26	0	17	7	0	1	0	0	0	1	0	0	0	0
1:00 AM	13	0	12	1	0	0	0	0	0	0	0	0	0	0
2:00 AM	23	0	13	6	0	1	0	0	1	2	0	0	0	0
3:00 AM	37	1	23	9	0	3	0	0	0	1	0	0	0	0
4:00 AM	114	0	81	28	0	1	0	0	2	2	0	0	0	0
5:00 AM	303	6	187	77	1	28	0	0	1	3	0	0	0	0
6:00 AM	401	2	248	98	7	32	1	0	7	6	0	0	0	0
7:00 AM	475	4	308	109	8	29	3	0	9	5	0	0	0	0
8:00 AM	288	2	178	75	2	24	0	1	3	3	0	0	0	0
9:00 AM	297	2	178	78	9	24	2	0	0	4	0	0	0	0
10:00 AM	274	9	163	65	9	20	3	0	2	2	0	1	0	0
11:00 AM	277	17	163	61	11	13	1	0	6	5	0	0	0	0
12:00 PM	354	10	209	92	5	26	3	0	6	3	0	0	0	0
1:00 PM	344	6	227	74	6	23	1	0	3	4	0	0	0	0
2:00 PM	349	7	225	92	6	16	2	0	0	1	0	0	0	0
3:00 PM	326	9	214	77	6	15	0	0	3	2	0	0	0	0
4:00 PM	304	2	203	65	11	20	0	0	3	0	0	0	0	0
5:00 PM	287	3	207	58	6	11	0	0	2	0	0	0	0	0
6:00 PM	225	1	159	52	0	11	1	0	1	0	0	0	0	0
7:00 PM	183	5	127	39	1	11	0	0	0	0	0	0	0	0
8:00 PM	152	2	103	34	0	11	0	0	2	0	0	0	0	0
9:00 PM	134	2	100	28	0	3	0	0	1	0	0	0	0	0
10:00 PM	90	0	61	22	0	4	0	0	0	3	0	0	0	0
11:00 PM	43	1	29	10	0	3	0	0	0	0	0	0	0	0
Total	5319	91	3435	1257	88	330	17	1	52	47	0	1	0	0
%		1.7	64.6	23.6	1.7	6.2	0.3	0.0	1.0	0.9	0.0	0.0	0.0	0.0

ALL Time Mark Traffi :

1/6/2017 Friday

24 Hour Classification

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
12:00 AM	29	0	23	6	0	0	0	0	0	0	0	0	0	0
1:00 AM	22	0	14	6	0	2	0	0	0	0	0	0	0	0
2:00 AM	18	0	13	4	0	0	1	0	0	0	0	0	0	0
3:00 AM	26	1	17	4	0	1	0	0	1	1	0	1	0	0
4:00 AM	101	1	75	22	0	2	0	0	0	1	0	0	0	0
5:00 AM	266	5	168	65	0	23	1	0	1	3	0	0	0	0
6:00 AM	351	3	205	97	8	27	4	0	5	2	0	0	0	0
7:00 AM	441	3	304	96	7	18	3	1	5	3	1	0	0	0
8:00 AM	329	1	192	103	2	24	1	0	4	2	0	0	0	0
9:00 AM	282	2	167	83	9	12	1	1	3	4	0	0	0	0
10:00 AM	272	4	154	73	5	20	6	2	6	2	0	0	0	0
11:00 AM	304	4	193	86	3	13	1	0	1	3	0	0	0	0
12:00 PM	327	9	216	64	4	28	0	0	3	1	0	2	0	0
1:00 PM	334	16	209	78	3	22	0	0	3	3	0	0	0	0
2:00 PM	352	4	239	82	3	16	1	0	3	4	0	0	0	0
3:00 PM	332	11	191	89	12	20	0	0	3	6	0	0	0	0
4:00 PM	294	1	207	63	7	14	1	0	1	0	0	0	0	0
5:00 PM	295	8	210	57	1	16	0	0	2	1	0	0	0	0
6:00 PM	266	1	194	55	1	10	0	0	4	1	0	0	0	0
7:00 PM	214	2	140	53	3	11	2	0	3	0	0	0	0	0
8:00 PM	167	1	112	39	0	14	0	0	1	0	0	0	0	0
9:00 PM	175	2	123	40	2	7	0	0	1	0	0	0	0	0
10:00 PM	102	1	78	18	0	5	0	0	0	0	0	0	0	0
11:00 PM	69	0	51	14	0	3	0	0	1	0	0	0	0	0
Total	5368	80	3495	1297	70	308	22	4	51	37	1	3	0	0
%		1.5	65.1	24.2	1.3	5.7	0.4	0.1	1.0	0.7	0.0	0.1	0.0	0.0

ALL JDF files Site: 000000000000 1/7/2017 Saturday ALL RDF files

ALL Time Mark Traffi :

24 Hour Classification

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
12:00 AM	37	0	25	6	0	5	0	0	0	1	0	0	0	0
1:00 AM	21	0	15	3	1	2	0	0	0	0	0	0	0	0
2:00 AM	19	0	15	2	0	1	0	0	0	1	0	0	0	0
3:00 AM	27	0	16	6	0	3	0	0	1	1	0	0	0	0
4:00 AM	59	0	38	15	0	5	0	0	1	0	0	0	0	0
5:00 AM	162	2	102	40	0	12	1	0	3	2	0	0	0	0
6:00 AM	145	2	80	45	0	13	1	0	4	0	0	0	0	0
7:00 AM	172	2	100	50	2	12	0	0	5	1	0	0	0	0
8:00 AM	227	2	139	70	1	10	0	0	2	2	0	0	1	0
9:00 AM	255	10	159	67	2	13	0	0	2	2	0	0	0	0
10:00 AM	261	8	154	72	2	19	1	0	4	1	0	0	0	0
11:00 AM	280	6	177	75	6	14	1	0	1	0	0	0	0	0
12:00 PM	312	1	206	78	4	17	0	0	6	0	0	0	0	0
1:00 PM	344	21	220	73	5	19	1	0	5	0	0	0	0	0
2:00 PM	313	4	222	64	2	18	0	0	3	0	0	0	0	0
3:00 PM	292	7	199	70	2	9	0	0	5	0	0	0	0	0
4:00 PM	281	5	192	71	1	11	0	0	1	0	0	0	0	0
5:00 PM	285	4	206	60	2	10	0	0	3	0	0	0	0	0
6:00 PM	235	0	163	59	1	10	0	0	1	1	0	0	0	0
7:00 PM	189	5	126	49	1	7	0	0	0	1	0	0	0	0
8:00 PM	150	1	106	35	0	8	0	0	0	0	0	0	0	0
9:00 PM	168	2	110	41	0	12	0	0	2	1	0	0	0	0
10:00 PM	133	0	95	19	1	18	0	0	0	0	0	0	0	0
11:00 PM	71	0	46	21	0	3	0	0	1	0	0	0	0	0
Total	4438	82	2911	1091	33	251	5	0	50	14	0	0	1	0
%		1.8	65.6	24.6	0.7	5.7	0.1	0.0	1.1	0.3	0.0	0.0	0.0	0.0

ALL JDF files Site: 000000000000 1/8/2017 Sunday ALL RDF files

ALL Time Mark Traffi :

24 Hour Classification

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
12:00 AM	39	0	31	6	0	2	0	0	0	0	0	0	0	0
1:00 AM	33	0	24	7	0	2	0	0	0	0	0	0	0	0
2:00 AM	28	0	23	3	0	2	0	0	0	0	0	0	0	0
3:00 AM	21	0	18	3	0	0	0	0	0	0	0	0	0	0
4:00 AM	40	0	29	8	0	2	0	0	1	0	0	0	0	0
5:00 AM	139	1	89	39	0	9	0	0	1	0	0	0	0	0
6:00 AM	81	0	53	19	0	9	0	0	0	0	0	0	0	0
7:00 AM	108	1	73	22	1	7	1	0	3	0	0	0	0	0
8:00 AM	170	2	106	47	1	10	0	0	4	0	0	0	0	0
9:00 AM	257	5	169	64	2	12	0	0	5	0	0	0	0	0
10:00 AM	269	3	180	71	2	11	0	0	2	0	0	0	0	0
11:00 AM	291	23	179	65	6	14	1	0	2	0	0	1	0	0
12:00 PM	299	14	197	63	4	15	0	0	6	0	0	0	0	0
1:00 PM	323	23	202	78	3	12	1	0	4	0	0	0	0	0
2:00 PM	289	20	186	63	4	14	0	0	1	1	0	0	0	0
3:00 PM	242	10	164	52	2	14	0	0	0	0	0	0	0	0
4:00 PM	276	3	203	52	2	15	0	0	1	0	0	0	0	0
5:00 PM	243	2	179	52	0	9	0	0	1	0	0	0	0	0
6:00 PM	255	0	188	54	0	10	0	0	3	0	0	0	0	0
7:00 PM	182	2	125	47	0	8	0	0	0	0	0	0	0	0
8:00 PM	136	0	106	28	0	2	0	0	0	0	0	0	0	0
9:00 PM	157	1	112	29	1	13	0	0	1	0	0	0	0	0
10:00 PM	73	0	49	17	2	4	0	0	1	0	0	0	0	0
11:00 PM	42	0	33	7	0	1	0	0	1	0	0	0	0	0
Total	3993	110	2718	896	30	197	3	0	37	1	0	1	0	0
%		2.8	68.1	22.4	0.8	4.9	0.1	0.0	0.9	0.0	0.0	0.0	0.0	0.0

ALL Time Mark Traffi :

24 Hour Classification

Channel 1

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
12:00 AM	22	0	12	7	0	3	0	0	0	0	0	0	0	0
1:00 AM	21	0	15	5	0	0	0	0	0	1	0	0	0	0
2:00 AM	16	0	8	3	0	3	0	0	0	2	0	0	0	0
3:00 AM	36	0	22	9	1	2	0	0	1	1	0	0	0	0
4:00 AM	99	0	63	27	0	8	0	0	1	0	0	0	0	0
5:00 AM	314	4	203	74	0	26	3	0	2	2	0	0	0	0
6:00 AM	386	3	238	96	7	36	0	0	3	3	0	0	0	0
7:00 AM	502	5	334	112	7	27	4	0	7	5	0	1	0	0
8:00 AM	304	2	173	84	3	27	4	0	5	6	0	0	0	0
9:00 AM	300	6	174	89	6	19	1	0	3	2	0	0	0	0
10:00 AM	280	3	176	66	3	20	2	0	6	4	0	0	0	0
11:00 AM	261	3	160	62	6	19	3	0	3	3	0	2	0	0
12:00 PM	284	2	177	75	3	17	1	0	3	5	0	1	0	0
1:00 PM	318	4	216	75	6	12	0	0	4	1	0	0	0	0
2:00 PM	351	5	236	85	3	16	0	0	4	2	0	0	0	0
3:00 PM	306	5	194	79	12	11	3	0	2	0	0	0	0	0
4:00 PM	294	5	209	59	6	13	0	0	2	0	0	0	0	0
5:00 PM	253	3	168	65	5	11	0	0	1	0	0	0	0	0
6:00 PM	208	3	145	50	0	8	0	0	2	0	0	0	0	0
7:00 PM	161	0	107	42	0	11	0	0	1	0	0	0	0	0
8:00 PM	144	1	102	33	3	5	0	0	0	0	0	0	0	0
9:00 PM	126	4	95	21	1	4	0	0	0	1	0	0	0	0
10:00 PM	71	0	55	11	0	3	1	0	0	1	0	0	0	0
11:00 PM	32	0	18	11	0	1	0	0	0	2	0	0	0	0
Total	5089	58	3300	1240	72	302	22	0	50	41	0	4	0	0
%		1.1	64.8	24.4	1.4	5.9	0.4	0.0	1.0	0.8	0.0	0.1	0.0	0.0

Monday

ALL Time Mark Traffi :

1/5/2017 Thursday

24 Hour Classification

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
12:00 AM	26	0	21	5	0	0	0	0	0	0	0	0	0	0
1:00 AM	21	0	15	5	0	1	0	0	0	0	0	0	0	0
2:00 AM	21	0	14	5	0	0	0	0	0	2	0	0	0	0
3:00 AM	22	1	16	3	0	0	0	0	1	1	0	0	0	0
4:00 AM	53	2	24	20	0	6	0	0	0	1	0	0	0	0
5:00 AM	83	0	54	13	1	8	1	0	2	4	0	0	0	0
6:00 AM	194	5	129	37	6	8	1	3	4	1	0	0	0	0
7:00 AM	271	3	187	47	12	13	5	0	1	1	0	2	0	0
8:00 AM	236	5	160	36	4	23	0	0	4	4	0	0	0	0
9:00 AM	235	5	154	51	6	10	2	0	5	2	0	0	0	0
10:00 AM	327	11	217	61	14	14	2	0	7	1	0	0	0	0
11:00 AM	334	11	219	58	13	20	2	0	4	6	0	1	0	0
12:00 PM	319	4	228	61	5	11	1	0	5	4	0	0	0	0
1:00 PM	316	6	222	57	6	11	1	0	8	5	0	0	0	0
2:00 PM	486	18	319	91	11	35	0	0	7	5	0	0	0	0
3:00 PM	593	15	421	108	10	33	0	0	5	0	0	1	0	0
4:00 PM	486	7	361	77	7	23	0	0	8	3	0	0	0	0
5:00 PM	511	12	365	99	7	23	1	0	3	0	0	0	1	0
6:00 PM	340	5	255	64	1	13	0	0	2	0	0	0	0	0
7:00 PM	262	1	199	44	2	11	1	0	3	1	0	0	0	0
8:00 PM	194	2	158	27	1	2	0	0	3	1	0	0	0	0
9:00 PM	132	2	102	24	1	2	0	0	0	1	0	0	0	0
10:00 PM	125	1	100	21	0	2	0	0	0	1	0	0	0	0
11:00 PM	59	0	49	10	0	0	0	0	0	0	0	0	0	0
Total	5646	116	3989	1024	107	269	17	3	72	44	0	4	1	0
%		2.1	70.7	18.1	1.9	4.8	0.3	0.1	1.3	0.8	0.0	0.1	0.0	0.0

ALL Time Mark Traffi :

1/6/2017 Friday

24 Hour Classification

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
12:00 AM	23	1	20	2	0	0	0	0	0	0	0	0	0	0
1:00 AM	24	0	17	5	0	1	0	0	0	0	0	1	0	0
2:00 AM	23	0	20	3	0	0	0	0	0	0	0	0	0	0
3:00 AM	20	1	15	1	0	1	0	0	0	2	0	0	0	0
4:00 AM	47	0	31	10	0	4	0	0	1	1	0	0	0	0
5:00 AM	74	3	53	12	0	4	1	0	0	1	0	0	0	0
6:00 AM	196	2	127	42	8	7	0	3	2	5	0	0	0	0
7:00 AM	236	2	170	40	6	8	1	0	5	2	0	2	0	0
8:00 AM	217	1	157	38	7	6	1	0	3	4	0	0	0	0
9:00 AM	329	2	232	62	6	19	2	0	3	3	0	0	0	0
10:00 AM	306	5	207	60	6	16	3	0	5	3	0	1	0	0
11:00 AM	357	6	249	78	9	9	1	0	5	0	0	0	0	0
12:00 PM	373	5	260	66	8	20	2	0	8	4	0	0	0	0
1:00 PM	373	5	272	62	6	14	1	0	7	5	0	1	0	0
2:00 PM	432	6	296	84	7	26	0	0	7	5	0	1	0	0
3:00 PM	523	10	364	101	6	28	0	0	10	4	0	0	0	0
4:00 PM	456	3	319	98	7	24	1	0	4	0	0	0	0	0
5:00 PM	482	14	340	85	7	28	0	0	7	1	0	0	0	0
6:00 PM	336	3	264	53	1	11	0	0	2	2	0	0	0	0
7:00 PM	240	2	177	40	2	12	0	0	4	3	0	0	0	0
8:00 PM	167	2	138	24	0	3	0	0	0	0	0	0	0	0
9:00 PM	132	0	102	26	0	4	0	0	0	0	0	0	0	0
10:00 PM	131	2	97	26	1	4	0	0	0	1	0	0	0	0
11:00 PM	68	0	53	11	1	3	0	0	0	0	0	0	0	0
Total	5565	75	3980	1029	88	252	13	3	73	46	0	6	0	0
%		1.3	71.5	18.5	1.6	4.5	0.2	0.1	1.3	0.8	0.0	0.1	0.0	0.0

ALL Time Mark Traffi :

24 Hour Classification

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
12:00 AM	39	2	26	7	0	3	0	0	0	1	0	0	0	0
1:00 AM	27	0	23	3	0	0	0	0	0	1	0	0	0	0
2:00 AM	22	0	17	4	0	1	0	0	0	0	0	0	0	0
3:00 AM	19	0	15	3	0	1	0	0	0	0	0	0	0	0
4:00 AM	19	1	15	1	0	2	0	0	0	0	0	0	0	0
5:00 AM	61	0	42	14	1	3	0	0	1	0	0	0	0	0
6:00 AM	115	3	80	24	1	4	0	0	1	1	0	0	1	0
7:00 AM	140	0	111	21	3	3	1	0	1	0	0	0	0	0
8:00 AM	169	1	123	30	1	8	1	0	3	2	0	0	0	0
9:00 AM	273	2	186	65	4	10	0	0	6	0	0	0	0	0
10:00 AM	268	14	186	48	3	11	1	1	3	1	0	0	0	0
11:00 AM	304	5	231	44	4	13	2	0	4	1	0	0	0	0
12:00 PM	363	6	261	71	3	19	0	0	3	0	0	0	0	0
1:00 PM	335	17	238	53	7	13	0	0	6	0	0	1	0	0
2:00 PM	386	1	277	82	3	17	2	0	3	1	0	0	0	0
3:00 PM	341	3	254	65	2	14	0	0	1	1	0	1	0	0
4:00 PM	339	14	232	68	3	14	0	0	8	0	0	0	0	0
5:00 PM	344	6	253	67	0	16	0	0	1	1	0	0	0	0
6:00 PM	268	2	185	63	0	13	1	0	4	0	0	0	0	0
7:00 PM	231	6	176	38	0	8	0	0	3	0	0	0	0	0
8:00 PM	147	2	121	20	0	4	0	0	0	0	0	0	0	0
9:00 PM	115	0	85	26	0	3	0	0	0	1	0	0	0	0
10:00 PM	145	2	112	26	0	5	0	0	0	0	0	0	0	0
11:00 PM	57	0	48	8	0	1	0	0	0	0	0	0	0	0
Total	4527	87	3297	851	35	186	8	1	48	11	0	2	1	0
%		1.9	72.8	18.8	0.8	4.1	0.2	0.0	1.1	0.2	0.0	0.0	0.0	0.0

ALL JDF files Site: 000000000000 1/8/2017 Sunday ALL RDF files

ALL Time Mark Traffi :

24 Hour Classification

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
12:00 AM	50	3	36	6	0	3	0	0	1	1	0	0	0	0
1:00 AM	20	0	17	3	0	0	0	0	0	0	0	0	0	0
2:00 AM	16	0	13	3	0	0	0	0	0	0	0	0	0	0
3:00 AM	17	0	15	0	0	1	0	0	0	1	0	0	0	0
4:00 AM	16	0	10	4	0	2	0	0	0	0	0	0	0	0
5:00 AM	34	0	26	8	0	0	0	0	0	0	0	0	0	0
6:00 AM	100	2	80	15	0	3	0	0	0	0	0	0	0	0
7:00 AM	98	0	83	11	1	3	0	0	0	0	0	0	0	0
8:00 AM	128	0	92	27	2	5	0	0	1	1	0	0	0	0
9:00 AM	227	2	170	45	0	10	0	0	0	0	0	0	0	0
10:00 AM	232	3	168	42	2	13	0	0	3	0	0	1	0	0
11:00 AM	320	5	254	47	2	10	0	0	2	0	0	0	0	0
12:00 PM	308	12	216	52	5	16	0	0	7	0	0	0	0	0
1:00 PM	314	13	226	47	1	20	1	0	5	1	0	0	0	0
2:00 PM	379	25	257	71	7	12	2	0	4	1	0	0	0	0
3:00 PM	317	15	222	56	3	19	0	0	2	0	0	0	0	0
4:00 PM	337	13	258	48	1	12	0	0	4	1	0	0	0	0
5:00 PM	262	6	205	44	0	4	0	0	3	0	0	0	0	0
6:00 PM	219	7	170	30	2	9	0	0	1	0	0	0	0	0
7:00 PM	205	1	153	46	0	5	0	0	0	0	0	0	0	0
8:00 PM	139	1	116	20	0	1	0	0	0	1	0	0	0	0
9:00 PM	126	1	95	26	1	2	0	0	1	0	0	0	0	0
10:00 PM	121	0	93	25	0	2	0	0	1	0	0	0	0	0
11:00 PM	52	1	39	11	0	1	0	0	0	0	0	0	0	0
Total	4037	110	3014	687	27	153	3	0	35	7	0	1	0	0
%		2.7	74.7	17.0	0.7	3.8	0.1	0.0	0.9	0.2	0.0	0.0	0.0	0.0

ALL Time Mark Traffi :

24 Hour Classification

Channel 2

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
12:00 AM	21	0	15	3	0	3	0	0	0	0	0	0	0	0
1:00 AM	15	0	11	2	0	0	0	0	0	2	0	0	0	0
2:00 AM	13	0	12	1	0	0	0	0	0	0	0	0	0	0
3:00 AM	27	1	17	8	0	0	0	0	0	1	0	0	0	0
4:00 AM	50	0	30	14	0	5	0	0	1	0	0	0	0	0
5:00 AM	102	1	76	13	3	3	0	0	2	3	0	1	0	0
6:00 AM	198	7	137	38	6	7	0	0	3	0	0	0	0	0
7:00 AM	252	1	184	44	8	12	0	0	2	1	0	0	0	0
8:00 AM	193	0	142	35	5	7	0	0	3	1	0	0	0	0
9:00 AM	268	3	196	41	6	15	2	0	4	0	0	1	0	0
10:00 AM	284	0	198	48	6	19	2	2	5	4	0	0	0	0
11:00 AM	303	6	216	49	6	16	0	1	5	3	0	1	0	0
12:00 PM	340	2	251	62	4	14	1	0	2	4	0	0	0	0
1:00 PM	311	5	222	68	1	10	1	0	4	0	0	0	0	0
2:00 PM	409	7	283	81	4	25	0	0	3	4	0	1	0	1
3:00 PM	551	9	389	103	14	24	1	0	7	4	0	0	0	0
4:00 PM	456	7	321	95	7	21	0	0	4	0	0	1	0	0
5:00 PM	482	5	337	109	3	19	1	1	6	0	1	0	0	0
6:00 PM	331	3	251	61	3	12	0	0	0	0	0	1	0	0
7:00 PM	188	0	150	30	0	5	0	0	1	2	0	0	0	0
8:00 PM	137	1	110	20	0	5	0	0	0	1	0	0	0	0
9:00 PM	102	1	85	12	0	3	0	0	0	1	0	0	0	0
10:00 PM	105	0	82	20	0	2	0	0	0	1	0	0	0	0
11:00 PM	41	1	30	10	0	0	0	0	0	0	0	0	0	0
Total	5179	60	3745	967	76	227	8	4	52	32	1	6	0	1
%		1.2	72.3	18.7	1.5	4.4	0.2	0.1	1.0	0.6	0.0	0.1	0.0	0.0

Monday