Memorandum

MIAMI-DADE COUNTY

Date:	May 14, 2019
To:	Honorable Chairwoman Audrey M. Edmonson and Members, Board of County Commissioners
From:	Carlos A. Gimenez Mayor
Subject:	Request for Approval of Supplemental Agreement No. 1 for Contract No. RFP847, Pay Phones, Pay Phone Services, Pay Phone Subscription Services, Inmate Telephone Services, and Jail Management System

Recommendation
It is recommended that the Board of County Commissioners (Board) authorize Supplemental Agreement No. 1 to *Contract No. RFP847, Pay Phones, Pay Phone Services, Pay Phone Subscription Services, Inmate Telephone Services, and Jail Management System*, for the Miami-Dade Corrections and Rehabilitation Department, Information Technology Department, and the Office of Management and Budget. The Supplemental Agreement authorizes a modification to scope previously approved by the Board.

On July 11, 2014, the Board approved the award of Contract No. RFP847 for the procurement of pay phone services at the County's Correction and Rehabilitation facilities, as well as an integrated Jail Management System to be developed by the awarded vendor, Global Tek*Link (GTL). While GTL has provided most services under the contract, as of June 2018, GTL had not yet provided the Jail Management System as required.

As a result, the County issued a Notice of Default with a demand to cure within 30 days. In order to meet its obligations, GTL agreed to contract with a third-party provider to provide the County, at GTL's sole expense, the services set forth in the original contract approved by the Board. GTL's tender of this contract will cure its default upon completion and provide the County with the system as included in the contract. The County and GTL also have mutually agreed to extend the original term of the Agreement by an additional five (5) years which will cover the development, implementation, and support of the Jail Management System. In the event GTL fails to provide the Jail Management System, GTL will pay the County liquidated damages in the amount of $7,829,623, representing the value of the Jail Management System.

Scope
The impact of this item is countywide in nature.

Fiscal Impact/Funding Source
There is no additional fiscal impact.

Track Record/Monitor
Sylvia Novela of the Internal Services Department is the Procurement Contracting Manager.

Delegated Authority
The County Mayor or the County Mayor's designee will have the authority to exercise all provisions of the contract, including any renewals or extensions, pursuant to Section 2-8.1 of the County Code and Implementing Order 3-38.
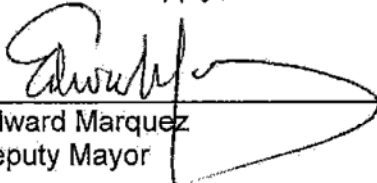
Awarded Vendor(s)

Vendor	Principal Address	Local Address	Principal
Global Tel*Link	12021 Sunset Hills Road, Ste. 100, Reston, VA	None	Jeffery B. Haidinger

Due Diligence

Pursuant to Resolution No. R-187-12, due diligence was conducted in accordance with the Internal Services Department's Procurement Guidelines to determine contractor responsibility, including verifying corporate status and review of performance and compliance issues through various vendor responsibility lists and a keyword internet search. The lists referenced include convicted vendors, debarred vendors, delinquent contractors, suspended vendors, and federal excluded parties. There were no adverse findings relating to contractor responsibility.

Applicable Ordinances and Contract Measures

No Measures apply as this is a revenue generating agreement.
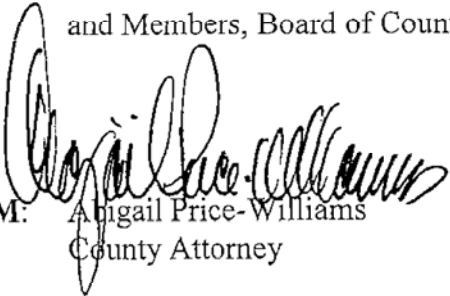
Edward Marquez
Deputy Mayor

MEMORANDUM
(Revised)

TO: Honorable Chairwoman Audrey M. Edmonson
and Members, Board of County Commissioners

DATE: June 4, 2019

FROM: Abigail Price-Williams
County Attorney

SUBJECT: Agenda Item No.

Please note any items checked.

_____ "3-Day Rule" for committees applicable if raised

_____ 6 weeks required between first reading and public hearing

_____ 4 weeks notification to municipal officials required prior to public hearing

_____ Decreases revenues or increases expenditures without balancing budget

_____ Budget required

_____ Statement of fiscal impact required

_____ Statement of social equity required

_____ Ordinance creating a new board requires detailed County Mayor's report for public hearing

_____ No committee review

_____ Applicable legislation requires more than a majority vote (i.e., 2/3's present ____, 2/3 membership ____, 3/5's ____, unanimous ____, CDMP 7 vote requirement per 2-116.1(3)(h) or (4)(c) ____, CDMP 2/3 vote requirement per 2-116.1(3)(h) or (4)(c) ____, or CDMP 9 vote requirement per 2-116.1(4)(c)(2) ____) to approve

✓ Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required

RESOLUTION NO. _____

RESOLUTION AUTHORIZING EXECUTION OF
SUPPLEMENTAL AGREEMENT NO. 1 WITH GLOBAL
TEL*LINK CORPORATION FOR CONTRACT NO. RFP847,
PAY PHONES, PAY PHONE SERVICES, PAY PHONE
SUBSCRIPTION SERVICES, INMATE TELEPHONE
SERVICES, AND JAIL MANAGEMENT SYSTEM FOR THE
MIAMI-DADE CORRECTIONS AND REHABILITATION
DEPARTMENT, INFORMATION TECHNOLOGY
DEPARTMENT, AND THE OFFICE OF MANAGEMENT AND
BUDGET FOR A JAIL MANAGEMENT SYSTEM SOLUTION,
EXTEND THE CONTRACT TERM UP TO FIVE YEARS AND
MODIFY LIQUIDATED DAMAGES PROVISION; AND
AUTHORIZING THE COUNTY MAYOR OR COUNTY
MAYOR'S DESIGNEE TO EXERCISE ALL PROVISIONS OF
THE CONTRACT PURSUANT TO SECTION 2-8.1 OF THE
COUNTY CODE AND IMPLEMENTING ORDER 3-38

WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying

memorandum, a copy of which is incorporated herein by reference,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY

COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that:

Section 1.   The matters contained in the foregoing recital and the accompanying

County Mayor's memorandum are incorporated in this resolution by reference; and

Section 2.   This Board finds it is in the best interest of Miami-Dade County to approve

the contract modification ("Supplement No. 1") to Contract No. RFP847, Pay Phones, Pay Phone

Services, Pay Phone Subscription Services, Inmate Telephone Services, and Jail Management

System for the Miami-Dade Corrections And Rehabilitation Department, Information Technology

Department, and the Office of Management and Budget for a Jail Management System Solution,

extend the contract term up to five years, and modify the liquidated damages provision, in

substantially the form attached hereto and made part hereof; and authorizes the County Mayor or County Mayor's designee to exercise all provisions of the contracts pursuant to Section 2-8.1 of the County Code and Implementing Order 3-38.

The foregoing resolution was offered by Commissioner   , who moved its adoption. The motion was seconded by Commissioner   and upon being put to a vote, the vote was as follows:

<div align="center">

Audrey M. Edmonson, Chairwoman
Rebeca Sosa, Vice Chairwoman

</div>

Esteban L. Bovo, Jr.	Daniella Levine Cava
Jose "Pepe" Diaz	Sally A. Heyman
Eileen Higgins	Barbara J. Jordan
Joe A. Martinez	Jean Monestime
Dennis C. Moss	Sen. Javier D. Souto
Xavier L. Suarez	

The Chairperson thereupon declared the resolution duly passed and adopted this 4th day of June, 2019. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this Resolution and the filing of this approval with the Clerk of the Board.

MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

By:_____
　　Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency.

Oren Rosenthal

SUPPLEMENTAL AGREEMENT NO. 1

Contract Number: **RFP847**

Contract Title: **Pay Phones, Pay Phone Services, Pay Phone Subscription Services, Inmate Telephone Services, and Jail Management System**

Contractor: **Global Tel*Link (GTL)**
                    12021 Sunset Hills Road, Suite 100
                    Reston, Virginia 20190

Miami-Dade County (**"County"**) and Global Tel*Link (**"Contractor"**) hereby agree that the referenced agreement RFP847 (**"Contract"**) shall be amended as follows:

1. The County shall accept the proposal for a Jail House Management System (Solution) provided on November 19, 2018 by Contractor in lieu on Contractor's obligation under the Contract.
2. Contractor shall not be released of its contractual obligations until full acceptance of the proposed Solution by the County. If the Contractor is unable to provide a County acceptable Solution, the Contractor will pay the County liquidated damages in the amount of $7,829,623.
3. The County and the Contractor mutually agree to extend the original term of the Agreement by an additional five (5) years.

All terms, covenants and conditions of the original Contract and any supplemental agreements issued thereto shall remain in full force and effect, except to the extent herein amended.

IN WITNESS WHEREOF, the parties have executed this Supplemental Agreement to County Contract No. RFP847.

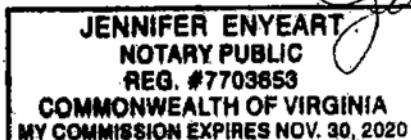Global Tel*Link   Miami-Dade County

By: _____   By: _____

Name: John Pitsenberger   Name: Carlos A. Gimenez

Title: Chief Financial Officer   Title: Mayor

Date: _1-9-2019_   Date: _____

Attest: _Jennifer Enyeart_   Attest: _____
        Corporate Secretary/Notary   Clerk of the Board

Commonwealth of Virginia   Approved as to form
County of Fairfax   and legal sufficiency

The foregoing instrument was acknowledged before me this
9 day of January, 2019, by John Pitsenberger.
                                                 _____
                                                 Assistant County Attorney

JENNIFER ENYEART
NOTARY PUBLIC
REG. #7703853
COMMONWEALTH OF VIRGINIA
MY COMMISSION EXPIRES NOV. 30, 2020

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DXC.technology

DXC Technology Proposal

Presented to

Mr. Todd Stutts
Senior Vice President – U.S. Sales

GTL

November 19, 2018

DXC Technology
4830 W. Kennedy Blvd, Suite 900
Tampa, Florida 33609
Julie Ward, Business Development Manager
Julie.Ward@tribridge.com
Main: 1 (877) 744-1360
Direct: 1 (888) 883-9797 x1474
Mobile: 1 (864) 414-2207

DXC.technology

November 19, 2018

Jail Management System
Global Tel Link
Todd Stutts, Senior Vice President – U.S. Sales
12021 Sunset Hills Rd, #100
Reston, VA 20190

Dear Mr. Stutts:

Thank you for giving DXC Technology ("DXC"), contracting as Tribridge Holdings, LLC (a wholly owned subsidiary of DXC Technology), the opportunity to provide our Scope, Approach, Methodology, and Cost Proposal to GTL on behalf of Miami-Dade County Corrections and Rehabilitation (County). DXC will work with directly with the County to implement the requirements provided by the County and illustrated in the project timeline provided with this document. Milestone payments are due by GTL on behalf of the County upon completion of the tasks defined in the project implementation costs section.

Please review the Proposal and provide feedback no later than September 19, 2018. We have provided a breakdown of the costs for software, maintenance, support, and hourly labor rates per your request. We have also provided a timeline to illustrate the implementation milestones. Once we review and discuss any feedback, we have included a proposal acceptance signature page to confirm our mutual understanding of the deliverables and costs.

Our Offender360 End User License/Maintenance Agreement (EULA) and the Customer Care Agreement are also included in this proposal as exhibits for your reference. These documents should be submitted to the County for their review. The County will be required to execute the EULA.

The principal contact person at our organization is Julie Ward, Business Development Manager - Public Sector: Office: 888-883-9797 x1474, Cell: 864-414-2207, Email: Julie.ward@tribridge.com.

Josh Jaquish, the signatory below, is the DXC representative authorized to make formal commitments on behalf of the firm. We are looking forward to working with you and your team.

Thank you again for the opportunity to partner with GTL.

Sincerely,

Josh Jaquish

Vice President
DXC Technology
813.287.8887 x 1165
Josh.Jaquish@tribridge.com

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Table of Contents

Project Scope – Phase 1

This section describes the basis for the scope of work associated with DXC implementing Offender360. Details specific to the implementation deliverables that are unique to the County's project are described in the Project Assumptions section of this document. Our methodology and approach described in our proposal response assumes a multi-phase implementation of Offender360 functionality, interfaces, reports and other items detailed below. DXC has included below the scope of work associated with implementing the solution proposed and described herein this section of the RFP.

Based on our understanding of the requirements provided by Miami-Dade County, the new solution will be implemented On Premise for up to 3,000 total named users. The scope of work shall address the implementation of the key business functions described in Exhibit 1 – Scope of Work.

Functional Areas
The following functional areas will be addressed during Phase 1 of the project:
1. Offender
2. Booking
    a. Cases
    b. Charges
3. Classification/Reclassification/Custody Level
4. Keep Separates/Flags
5. Alerts
6. Facility Management
    a. Housing Units
    b. Pods
    c. Cells
    d. Beds
7. Cell management
8. Housing/Cell changes
9. Movement
10. Incidents
    a. Incidents
    b. Disciplinary
    c. Sanctions
    d. Corrective Consultation
    e. Use of Force
    f. Hearing
11. Grievances
12. Offender Requests

Interfaces
The following interfaces will be addressed throughout Phase 1 of the project. Interfaces will consist of a one or two-way exchange of data between Offender360 and the identified solutions and can be either in real-time or batch.
1. Local Criminal Justice System (CJS)
    a. Booking
    b. Cases

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    c. Charges
    d. Cell Management
    e. Housing
    f. Cell Changes
    g. Release
2. Inmate Profile System (IPS)
    a. Initial Classification
    b. Aggravating reclassification
    c. Mitigating reclassification
    d. Special flags
    e. Demographics
    f. Keep Separates
    g. Incidents (this may be more than one interface, see below)
       i. Roles
       ii. Contraband
       iii. Narratives
    h. Disciplinary
    i. Sanctions
3. Dataworks
    a. Mugshot
4. Cerner
    a. Mental health information
5. Queue Management System (QMS)
    a. PREA Questionnaire Information

If additional interfaces are required in Phase 1 to meet the functional requirements as defined by the County and approved by GTL, a change order may be required.

Reports – Phase 1
Based on the report requirement, reports will be developed using either Offender360's Word Merge capabilities or SQL Server Reporting Services. The following reports will be addressed throughout Phase 1 of the project:

1. Corrective Consultation By Cell-Unit Per Month
2. Corrective Consultation By Cell-Unit Per Quarter
3. Corrective Consultation By Facility Per Date Range
4. Corrective Consultation By Facility Per Date Range - Graph
5. Corrective Consultation By Facility Per Month - Graph
6. Corrective Consultation By Facility Per Quarter - Graph
7. Corrective Consultation By Facility Per Quarter With ADP
8. Corrective Consultation By Inmate Per Date Range
9. Corrective Consultation By Inmate Per Month
10. Corrective Consultation By Reporting Officer Per Date Range
11. Corrective Consultation By Reporting Officer Per Month
12. Corrective Consultation By Reporting Officer Per Quarter
13. Corrective Consultation By Rule Violations Per Date Range
14. Corrective Consultation By Rule Violations Per Date Range - Graph

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15. Corrective Consultation By Rule Violations Per Month - Graph
16. Corrective Consultation By Rule Violations Per Quarter
17. Corrective Consultation By Rule Violations Per Quarter - Graph
18. Corrective Consultation Rule Violations Ranking
19. Disciplinary Reports Pass Due On Date Selected
20. Disciplinary Tracking
21. Inmate Disciplinary Report By Cell-Unit Location Per Date Range
22. Inmate Disciplinary Report By Cell-Unit Location Per Month
23. Inmate Disciplinary Report By Cell-Unit Location Per Quarter
24. Inmate Disciplinary Report By Dispositions Per Date Range
25. Inmate Disciplinary Report By Dispositions Per Date Range - Graph
26. Inmate Disciplinary Report By Dispositions Per Month
27. Inmate Disciplinary Report By Dispositions Per Month - Graph
28. Inmate Disciplinary Report By Dispositions Per Quarter
29. Inmate Disciplinary Report By Dispositions Per Quarter - Graph
30. Inmate Disciplinary Report By Facility - Graph
31. Inmate Disciplinary Report By Facility Per Date Range
32. Inmate Disciplinary Report By Facility Per Date Range - Graph
33. Inmate Disciplinary Report By Facility Per Quarter - Graph
34. Inmate Disciplinary Report By Facility Per Quarter With ADP
35. Inmate Disciplinary Report By Facility Per Year - Graph
36. Inmate Disciplinary Report By Facility Supervisor Clearance To Proceed Per Date Range
37. Inmate Disciplinary Report By Facility Supervisor Clearance To Proceed Per Date Range - Graph
38. Inmate Disciplinary Report By Facility Supervisor Clearance To Proceed Per Month
39. Inmate Disciplinary Report By Facility Supervisor Clearance To Proceed Per Month - Graph
40. Inmate Disciplinary Report By Facility Supervisor Clearance To Proceed Per Quarter
41. Inmate Disciplinary Report By Facility Supervisor Clearance To Proceed Per Quarter - Graph
42. Inmate Disciplinary Report By Facility Supervisor Concurrence Per Date Range
43. Inmate Disciplinary Report By Facility Supervisor Concurrence Per Date Range - Graph
44. Inmate Disciplinary Report By Facility Supervisor Concurrence Per Month
45. Inmate Disciplinary Report By Facility Supervisor Concurrence Per Month - Graph
46. Inmate Disciplinary Report By Facility Supervisor Concurrence Per Quarter
47. Inmate Disciplinary Report By Facility Supervisor Concurrence Per Quarter - Graph
48. Inmate Disciplinary Report By Facility Supervisor Extensions Per Date Range - Graph
49. Inmate Disciplinary Report By Facility Supervisor Extensions Per Month - Graph
50. Inmate Disciplinary Report By Facility Supervisor Extensions Per Quarter - Graph
51. Inmate Disciplinary Report By Facility Supervisor Extensions Per Date Range
52. Inmate Disciplinary Report By Facility Supervisor Extensions Per Month
53. Inmate Disciplinary Report By Facility Supervisor Extensions Per Quarter
54. Inmate Disciplinary Report By Inmate Per Date Range
55. Inmate Disciplinary Report By Inmate Per Date Range (Roles)
56. Inmate Disciplinary Report By Inmate Per Month
57. Inmate Disciplinary Report By Inmate Per Quarter
58. Inmate Disciplinary Report By Inmate Waiver Per Date Range
59. Inmate Disciplinary Report By Inmate Waiver Per Date Range - Graph
60. Inmate Disciplinary Report By Inmate Waiver Per Month
61. Inmate Disciplinary Report By Inmate Waiver Per Month - Graph
62. Inmate Disciplinary Report By Inmate Waiver Per Quarter

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63. Inmate Disciplinary Report By Inmate Waiver Per Quarter - Graph
64. Inmate Disciplinary Report By Loss Of Privilege
65. Inmate Disciplinary Report By Loss Of Privilege - Graph
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68. Inmate Disciplinary Report By Mental Health Professional Authorization Per Date Range
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71. Inmate Disciplinary Report By Reporting Officer Per Month
72. Inmate Disciplinary Report By Reporting Officer Per Quarter
73. Inmate Disciplinary Report By Rule Violations Per Date Range
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77. Inmate Disciplinary Report By Sanctions Per Date Range
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87. Inmate Disciplinary Report Inmate Disciplinary Reports Summary Per Date Range
88. Inmate Disciplinary Report Pending Reports
89. Inmate Disciplinary Report Pending Reportsv1
90. Inmate Disciplinary Report Pending Reportsv3
91. Inmate Disciplinary Report Rate Per 1000 Per Facility
92. Inmate Disciplinary Report Rule Violation Ranking Per Month - Graph
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94. Inmate Disciplinary Report Sanctions Per Quarter
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97. Inmate Disciplinary Report Year Comparison Per Quarter - Graph
98. Sanctions Tracking Report
99. Grievances by Date Range
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101. Grievances Appealed By Type
102. Grievances Appealed By Type - Graph
103. Grievances Appealed For Follow Up Action
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105. Grievances By Appeal - Graph
106. Grievances By Appeal Status
107. Grievances By Inmate Name
108. Grievances By Outcome
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110. Grievances By Review Status

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159. Contraband Found - Open
160. Contraband Incidents per Date Range
161. Contraband Incidents - Non-Shakedown
162. Contraband Incidents With Weapons Found
163. K9 Searches Contraband Found
164. Shakedowns per Date Range
165. Shakedowns With Weapons Found
166. Attempted Battery-On-Inmate Incidents - Graph
167. Contraband Incidents - Graph
168. Contraband Incidents - Non-Shakedown - Graph
169. Contraband Incidents With Weapons Found - Graph
170. K9 Searches Contraband Found - Graph
171. Response-To-Resistance (RTR) Incidents Per Inmate
172. Shakedowns - Graph
173. Shakedowns With Weapons Found - Graph
174. Incidents By CRIPA Audit Questions - Graph
175. Incidents By Inmate Mental Health Level - Graph
176. Incidents By Time Of Day Date Range - Graph
177. Incidents External Reviews - Graph
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179. Incidents With Weapons Involved - Graph
180. Inmate Death Incidents - Graph
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195. RTR Self Audit Report
196. Incidents By Cell-Housing Location
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200. Incidents By Staff Medical Treatment Provided And Injury Type
201. Incidents By Time Of Day
202. Incidents By Time Of Day - Graph
203. Incidents By Time Of Day Monthly
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205. Incidents External Reviews
206. Incidents Internal Reviews

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207. Incidents With Contraband Found
208. Incidents With Weapons Involved
209. Response-To-Resistance (RTR) Incidents With ADP Rate Per 1000 - Graph
210. Transfers Due To Disciplinary Actions
211. Inmate Death Incidents
212. Major Incidents By Type
213. Use of Narcan
214. Emergency Treatment Orders (ETO)
215. Transfers Inmate to Prevent Fight
216. Transfers Inmate for Aggressive/Disruptive Behavior

Additional Areas of Scope for Phase 1

- Training
  - Technical
  - Train the Trainer
- Standard Electronic Signature Capture
- External Facing Portals
  - Grievances
- Data Migration – to support the functional areas listed in this scope section for Phase I only
- Go Live and Support

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Project Scope – Phase 2 & 3

Additional functional scope items detailed below will be addressed in subsequent phases.

Functional Areas - Phase 2
The following functional areas will be addressed during Phase 2 of the project:

1. Intake/Booking
   a. Arrest data
   b. Charge/warrant/hold data
   c. Address data
   d. Employment data
   e. Profile Data
   f. Immigration Data
   g. Property
2. Inmate Tracking
   a. Scheduling
   b. Movement
   c. Head count
   d. Shift log
3. Releases
   a. Release information
   b. Bond processing

Interfaces – Phase 2
The County has not determined detailed interface requirements for Phase 2 at the time of submission of this proposal. Interface requirements will be established during the detailed interface design phase of Phase 2.

Reports – Phase 2
Detailed report requirements for Phase 2 have not been provided at the time of submission of this proposal.

Functional Areas - Phase 3
The following functional areas will be addressed during Phase 2 of the project:
1. Visitation
2. Food Services
   a. Faith Based or Special Diet
3. Case Management
   a. Risk Assessment
   b. Boot Camp, Pretrial Services, Pretrial Diversion and other programs
4. Court Services
5. Transportation Services
6. Mail Services
7. Chaplaincy Services
   a. Volunteers Approval

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Interfaces – Phase 3
The County has not determined detailed interface requirements for Phase 3 at the time of submission of this proposal. Interface requirements will be established during the detailed interface design phase of Phase 3.

Reports – Phase 3
Detailed reports requirements for Phase 3 have not been provided at the time of submission of this proposal.

Additional Areas of Scope for Phase 2 & 3
- Training
  - Technical
  - Train the Trainer
- Standard Electronic Signature Capture
- External Facing Portals
  - Offender Requests
  - Mail Services
- Barcode Scanning
- Driver's License Scanning
- Data Migration
- Go Live and Support

Implementation Approach & Project Assumptions

Implementation Approach

DXC's significant experience deploying tailored public sector customer solutions has refined our methodology and approach to ensure seamless execution of all deliverables. The implementation process primarily involves the following project phases:

- Identify and Define Requirements
- Build and Test
- Train and Deploy
- Go-Live Support
- Post-Deployment Support

Identify and Define Requirements

The project team conducts meetings with each business group's functional users to develop a clear understanding of current business processes, reporting requirements, and functional system requirements.

During requirements identification, the project team uses various methods to pinpoint requirements, which may include the following: interviews, focus groups, facilitated workshops, group creativity techniques, questionnaires and surveys, and product prototypes. The team uses these methods with project stakeholders to ensure they capture all requirements. The project team will also analyze requirements to determine the Functional Area, Scope, Fit/Gap, Solution Type, and the Design Considerations and Approach. Each requirement will have one or more solution component, or build task, associated with it. The team will document each category and its corresponding requirement so DXC and the County can review these together, and DXC can receive a green light to proceed with the design and build phases. The County will sign the Requirements Sign-off Document to approve all requirements and the project's scope. These requirements will form the basis for the development of test cases, which will be documented by the County.

DXC will then facilitate a discussion regarding future business practices and confirm alignment with the project's goals and objectives. When possible, DXC will use our industry experience and best practices to offer suggestions for enhanced future business processes. The project team will work with the County to obtain sign-off and approval of the functional requirements before moving forward.

Install Application on Non-Production Environments – The team installs the software on the server and creates the Development, Test, and Training environments.

Define Report Specifications – During this step, the County identifies reports and develops initial specifications. Additionally, the project team maps the reports to the design to capture necessary data in the system.

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Demonstrate Software Functionality — DXC will conduct a walk-through of the key software components slated for implementation. This system walk-through's purpose is to confirm that key stakeholders understand the core concepts of the application and its general use. This provides the County project team with a high-level understanding of functionality that can be utilized in the system design.

Develop Functional System Design and Prototype — This step maps County processes with the software's functions, including screen configuration, security requirements, reports, and workflow. The project team develops a high-level software prototype based on the approved requirements and the feedback the system walk-through generates. This enables the functional business users to visualize the system and provide final feedback in order to sign off and freeze the design. This step is the foundation of a successful deployment. The development of a prototype is a DXC differentiator that allows our clients to experience a visual of their solution while we can still tweak and adjust components to ensure complete satisfaction.

Design Integration — The team develops a detailed design to identify the integration points and the timing of the data exchange between systems.

Plan Data Conversion — The project team develops and finalizes an overall data conversion plan. This plan identifies the sources of legacy data and data formats and estimates of the number of records and degree of effort required to cleanse the data.

Complete Deployment Plan — The deployment plan includes details on when and how users will receive access to the system. This approach helps transition administration and technical support to internal County team members.

Complete Training Plan — DXC is committed to our customers being self-sufficient on application use and administration when we complete an engagement. To achieve this, we offer user training tailored to the County's business.

Confirm Build — Once the design is complete, the team obtains sign off, and we confirm and finalize the build effort; the work plan is updated as needed to reflect milestone dates and timing.

Build and Test

Making sure the software we deploy fully meets County requirements is an essential project phase involving several key steps:

Configure System — During this step, the team performs all system development activities, establishes system parameters, and configures screens using the Offender360 Customization Tool.

Develop Reports — The team builds and tests custom reports.

Develop System Integration — The team maps system integration points and implements processes to manage the integration to other system(s).

Perform Initial Data Conversion — This step ensures we map fields and load legacy data into the system. This not only provides a test for the data conversion effort, but also populates the database with sample data for the pilot.

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Pilot Test the Design – We execute all business scenarios through the appropriate system activities, utilizing sample data, inputs, and transactions to simulate use in a full production environment (the "Design Pilot"). We compare the results of the activities against the expected results, and where necessary, make changes to the system and repeat the scenario. This is a critical implementation process component. Comprehensive, successful completion of this step ensures minimal problems and surprises on the "Go-Live" date.

Business Process and System Test – We test all end-to-end processes and integrations with external systems. We compare activity results against the expected results, and where necessary, we make changes to the system and repeat the scenario.

[redacted]

User Acceptance Test – The County will be responsible for developing use and test cases for use during the User Acceptance Test (UAT) phase of the project. During UAT, the County will execute the test scripts against the system to validate the system functions and performs as designed. The County will log all issues, which will be categorized into bugs and enhancements. Each issue will be assigned a priority (high to low) and assigned to the DXC project and testing support team to be reviewed and fixed.

Train and Deploy

DXC has a full-service Human Capital Management (HCM) practice with over 125 full-time employees throughout North America and Europe and a dedicated learning content solution group. Through these business areas, we provide expertise in talent technologies (recruiting, onboarding, learning, performance, succession, and workforce analytics). We have years of experience providing a range of learning services to support clients with all facets of organizational learning.

Train the Trainer – DXC will use a blended training approach that offers a combination of onsite "hands-on" classroom training at County facilities and web-based training. Our train the trainer training approach employs a combination of training mechanisms, including web based electronic training tools to complement traditional classroom training. Our train-the-trainer approach trains County trainers that will subsequently train other users. DXC has included web-based on-demand training for end users, which helps maximize training effectiveness across all project phases. Training content consists of functionality tracks. Training sessions are scheduled in order to customize the training by role. The County will be responsible for providing the adequate amount of trainers to be trained using the train the trainer approach in order to deploy the training content to the end user base for each phase. DXC will not be responsible for providing classroom training for end users, but has included time to support the trainers during these sessions.

Core Team Training – DXC will provide functional and technical training to selected support staff and the County project team early in the project to enable these individuals to more effectively participate in design and requirements sessions and help them lead the pilot and system testing effort. This County project team will become system 'super users' and assist with overall application management to support external users.

System Administrator/IT Training – DXC trainers conduct System Administrator/IT training using a combination of onsite "hands-on" classroom training and on-the-job training focused on shadowing DXC consulting resources. We conduct onsite training in an environment the County designates. Training covers multiple technical topics to ensure the County's technical staff can capably administer the system once the project is complete. Topics include security, customization, routine system maintenance functions, preparing the required solution's databases, and overall solution administration. Online courses via Microsoft CustomerSource can augment DXC training. Various training schedules and delivery options are available depending on each group's unique needs.

Training Materials – DXC provides all instructional materials, media presentation devices, and presentation media. We create the training materials and documentation to support the training requirements, including the production of systems documentation and end user training materials. The authoring solution we have included in our proposal will allow us to quickly capture your specific configuration and interface, dramatically improving learning that would otherwise rely on generic training materials. Materials are electronic and can be outputted in many files types, such as MSWord, PowerPoint, PDF, and even MP4 and SCORM. The authoring tool is simply an MSWord add-in and can be used effectively by any of your system administrators, trainers, or subject matter experts with just a couple hours of training. Authoring capabilities are key because your team can easily manage content updates for end users as you maintain the system. The County will own all training materials and has permission to reproduce all training materials to train County personnel.

Training Simulation – DXC will provide access to learning materials and hands-on simulations via a training portal. Learning materials can be output in many files types, such as MSWord, PowerPoint, PDF, and even MP4 and SCORM simulations, with which users can interact to observe a process underway, try the process on their own, or work through a self-test on a process. All materials can be stored electronically and are accessible via the web. DXC will load user data into the system to control access. Users can enter the training portal as many times as they wish to access training simulations and materials. We can create a simple interface to direct users to their specific training, and the system can track learning completion.

By allowing learners to access learning simulations independently, prior to launch, we accomplish the following:

- Familiarize learners with the system in a practice environment where they can safely make mistakes.
- Provide hands-on time with the system and in which learners can "play" with the new software and practice at their own pace.
- Deliver self-paced learning time, giving learners a "sneak peek" of what is coming and helping alleviate any user fears regarding launch day preparedness.

Learners won't memorize step-by-step transactions during this pre-launch e-learning, but that is not its intent. Pre-launch e-learning's purpose is to help the learner gain system familiarity and have an opportunity to practice prior to training in a classroom setting.

Knowledge Transfer – Knowledge transfer is a critical aspect of transitioning solution ownership to the County. Comprehensive County resource training is crucial, not only for project implementation success, but also to confirm overall satisfaction with the new solution. DXC must gain County commitment to allocate appropriate resources for training, both at the beginning of the implementation project and at the end—right before Go-Live cutover to the new solution.

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Knowledge transfer occurs throughout the course of the project, and we administer the process through a number of methods, including the following: onsite training, on-the-job training, web-based on-demand training, and web-based training materials. During the project's initial define phase, we conduct a solution overview training for core project team members and Subject Matter Experts from the County. This gives all project team members the opportunity to investigate the core system's proposed capabilities. The purpose of the solution overview is to give County resources a baseline regarding the solution's terminology.

Design phase core team training focuses on educating the resources that will actively make decisions about how the software will be implemented. Deployment phase training focuses on training the County trainers that will administer training to others, and preparing County resources for participation in User Acceptance Testing. We will also provide training on using the new solution to complete daily work, and maintaining the solution in ongoing daily operations. We will use the actual proposed systems— customized/configured for the County—for this training. This is the training and knowledge transfer that occurs prior to Go-Live. DXC will conduct the final end user training for internal users within 30 days of the Go-Live date.

After the successful Go-Live, users may require final training and daily procedure documentation updates. Proposed web-based training aids and embedded self-help tools will help provide on-demand refresher training as users become accustomed to the new system. System Administrators may need additional training as they prepare to support the system and end users post implementation.

Throughout the project, system administrator staff will have an opportunity to shadow DXC staff and receive on-the-job training and knowledge transfer regarding the system.

Go-Live Support

DXC will assist with the development of a Go-Live cutover plan. County personnel will be responsible for making the final Go-Live decision and signing-off on Go-Live readiness prior to start of cutover activities. The DXC Project Manager and DXC project personnel will be on site for the first Go-Live week. DXC development resources will be available as needed off site. At the end of the first week, DXC and the County will determine if a need exists for additional on-site support for the remaining three (3) weeks of Go-Live support and stabilization period.

Post-Go-Live Support/Stabilization

Our project team will monitor the usage of the application features and overall system performance. The primary objective of this step is to ensure the new system is fully operational and sufficiently provides the needed functionality and management information. DXC will provide unlimited support via email, phone, and web. E-learning will be used as supplemental learning and for post-deployment refreshers. At the start of the project, DXC will set up and host a customer project site in SharePoint through which the County will record any issues, bugs, defects, and future enhancements. The County provides a priority status, and DXC will resolve the issues based on the priority and response times the County outlines.

Throughout the course of the project and post deployment, our implementation and support teams manage and track issues and requests entered into the site. Our teams will communicate progress toward resolution electronically, via email, customer portal, status reports, and directly through our project manager and support personnel.

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Project Management

The DXC Project Manager is responsible for all relevant and available facts concerning project requirements, resources, timing, and expectations encompassed in a jointly developed comprehensive project work plan and schedule. The DXC Project Manager will be the point person for communication and will regularly interact with the County project team (Project Manager, Business Analyst, Subject Matter Expert, and Stakeholders) in person and/or by phone, to plan, prioritize, design, and implement the system. In addition, the Project Manager and DXC staff will work with County staff (as needed), which can include daily meetings with the County project team to summarize current progress and next steps.

The Project Manager will coordinate and schedule all meetings, including the project kickoff meeting with the County prior to project work beginning. At the kickoff meeting, the Project Manager will introduce project resources and provide a project overview, a project plan, and work schedule along with other pertinent information critical to the start of the project. Throughout the course of the project, DXC will provide and maintain an issues and risk log, action items, monitor progress, prepare status memos, and conduct status meetings at County offices or via teleconference with County approval. Our Project Manager will direct DXC resources to ensure extensive interaction with County subject matter experts, with whom they will interact daily for design purposes. All interaction will be during County business hours and occur in person, as much as required. If needed, we will set up and host a project team site in SharePoint to enable project documentation sharing and collaboration or utilize County provided collaboration tools as required. We outline additional information related to our project management best practices below.

Communications Management

Continuously throughout the project, we take steps to identify and manage risk and the impact of change on the organization. A comprehensive communication plan is developed in which key items to be communicated are identified, including the delivery channel and audience.

Requirements Management

The approach we use for requirements management is to divide these requirements into a series of activities focused on developing a prioritized project backlog of required Offender360 components to meet project acceptance. Project Discovery, Fit Gap Analysis, Sprint planning and prioritization, and ongoing stories (user descriptions of customer needs) and Backlog grooming (incorporating multiple user stories) activities will be used to manage to the project baseline.

At the beginning of each sprint, DXC, in collaboration with the County, will determine a Sprint Plan defining the stories that will be included. The review and approval of the Sprint Plan will represent the approved requirements baseline for that sprint. DXC recommends holding weekly backlog grooming sessions. As the project matures, situations may arise in which the backlog requirements must change in some way. The project team must follow the established change control process in order to propose significant changes to requirements and receive County Project Manager and Project Sponsor approval. Significant changes are defined as those changes anticipated to affect the project Scope of Work. Ongoing Backlog requirements management also includes the County project team successfully testing all requirements, and documenting the date and tester as part of User Acceptance Testing (UAT) and project closure.

Issue Resolution Management

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The County and DXC Project Managers are responsible for overseeing and managing issues identified. The purpose of this process is to ensure we assign unanticipated issues, action items, and tasks to a specific person and track these issues/action items to timely resolution. DXC will work with the County on an issue resolution and escalation process and document this in our Project Management Plan in accordance with activities in Exhibit 1 – Scope of Work. The project team should always strive to make decisions and address items at the lowest level possible; however, when a resolution cannot be reached, the item should be escalated to ensure a prompt decision.

Change Order Process
All project change requests for must be documented via the aforementioned Issue Resolution Management process. When the County requests net new functionality, we will document the request on the project team SharePoint site via a change order form and include, at minimum, the following:

- Submitter
- Date of Submission
- Reason for the change
- Benefits of the change

GTL will review and approve all change order requests. DXC and County Project Managers will review change orders, and upon approval, pass them on to the Project Team for review. Change order status is logged on the project SharePoint site. The creator of the request will be notified when a change order has been approved, rejected, or requires additional information. Change orders ultimately rejected will be considered out of scope and addressed via a separate contract.

The Steering Committee is required to sign off on all change orders with project timeline and/or financial impact. GTL will have a representative on the steering committee in addition to members of the County and DXC.

Acceptance of Deliverables
To enforce consistent documentation and consensus of project requirements, direction, expectations, etc., DXC requires acceptance sign-off at multiple stages of the project. Sign-off will be required for Sprint Plans, Sprint Reviews, User Acceptance Testing, technical plan documents, project management plan documents, and other deliverables noted in the table below. More specifically, both DXC and the County acknowledge that there will not simply be one final sign-off, but iterative sign-offs throughout the project.

The table below identifies the project deliverables that will be developed as part of this project:

Deliverable Name	Description	Responsible Party	Milestone
Kick Off Presentation	PowerPoint slide deck that details items to be covered during the kickoff meeting.	Tribridge/MIDCR	Yes
Project Schedule	MS Project (or MS Excel) file that contains the work break-down structure for the project	Tribridge	Yes
Communication Plan	Document detailing communications within the context of managing the project.	Tribridge	No

Requirements Traceability Matrix	Document detailing the solution requirements with traceability to the RFP requirements, design components, test cases, etc.	Tribridge	Yes
Use Cases	MS Excel file that describes the business transactions and the actors involved.	County	No
Functional Design Document	Document detailing solution design to support the solution requirements.	Tribridge	Yes
Technical Design Document	Document detailing technical design to support the soluiton requirements.	Tribridge	No
Integration Design Document	Document detailing integration design, method, frequency and triggers, by process and system.	Tribridge	Yes
Data Conversion Design Document	Document detailing field-level data transformation, mapping and filter criteria by data source.	Tribridge	Yes
Report/Dashboard Design Document	Document detailing report and dashboard specifications including filters, parameters, fields, calculations and layouts.	Tribridge	Yes
Test Plan	Document providing approach, strategy, scope, test events, processes and other relevant information to describe the testing process.	Tribridge	No
Training Plan	Document providing approach, strategy, scope, training events, processes and other relefant information to describe the training process.	Tribridge	No
Test Scripts	Document providing set of instructions that will be performned on the system to test that the system functions as expected.	County	No
Training Materials	Documentation, simulations, presentations that will be used in training program.	Tribridge/County	No
Deployment Plan	Document that describes how and when the system will be made available to the users and how it will be supported.	Tribridge	No

Collaboration Portal / Team Foundation Server

DXC uses both SharePoint and Team Foundation Server in all of our Offender360 implementations to include our product team, so we are very familiar with the toolsets.

DXC will work with the County to organize and store pertinent project documents and artifacts to provide ease of information access to project team members. DXC will document this process in our Project Management Plan.

Project Staffing

Upon receipt of the contract, the DXC Director of Professional Services, working in conjunction with the Delivery/Account Manager and Project Manager, will coordinate staff members for the project. The Delivery/Account Manager is responsible for managing and coordinating the overall DXC project and has the authority to change resources and make staffing decisions. The Project Manager facilitates the day-to-day

coordination of staff and resources required to deliver the project consistent with the project vision, scope, and organizational goals. The Project Manager coordinates activities of project staff, including assigning tasks and managing to the project plan. DXC works closely with the County's Project Manager to support the continuous communication necessary to manage the project's objectives. DXC identifies key roles and responsibilities for each DXC Project Team member.

Key Position/Project Position	Key Areas of Involvement
Project Director	• Provides overall quality assurance and management oversight of the project • Provides executive sponsor buy-in and ongoing communications with executive sponsors • Participates on the Project Steering Committee • Provides final deliverable approvals
Delivery / Account Manager	• Overall responsibility for customer delivery of project commitment • Coordinate contracts, change orders, A/R • Accountable for overall Quality Assurance and management oversight • Steering Committee participation and communication with executive sponsors • Methodology enforcement
Project Manager	• Facilitates the day-to-day coordination required to deliver the project in a manner consistent with the project vision, scope and organizational goals • Coordinates activities of project staff, including assigning tasks, creating status reports and managing to the project plan • Facilitates Scrum calls, Sprint Reviews, and Sprint Retrospectives • Responsible for weekly status reporting including accomplishments, next steps, and actual to budget updates • Works closely with the County Project Manager to ensure continuous communication
Functional Lead	• Serves as the functional team lead for issues and escalation purpose • Facilitates functional design sessions including dashboards and reports • Manages Backlog and Sprint Plans • Responsible for functional design and build tasks against user stories

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	• Responsible for the configuration of the Microsoft Dynamics application • Leverage knowledge of best practices through the application design and configuration process • Conducts pilot and system testing • Provides data migration assistance • Provides reporting assistance • Develops training materials • Provide onsite super user and end-user training
Data Migration /Integration/Testing Manager	• Responsible for data migration design, development, and testing • Responsible for data integration design, development, and testing • Serves as a technical team lead for issues and escalation purpose • Provide technical training for client IT team • Recommend infrastructure requirements for each environment • Install software including Microsoft Dynamics and Scribe
Technical Lead	• Responsible for the development within the SDK framework utilizing .NET • Facilitates user testing and acceptance • Conducts knowledge transfer to IT team members • Create report specifications • Develop and test reports • Conduct dashboard design sessions • Offer best practices based and common dashboards based on functional role • Configure Dynamics dashboards • .NET portal development

DXC identifies key roles and responsibilities for each County Project Team member.

Subject Matter Expertise (SME)/ Role	Approx. Time Commitment	Key Areas of Involvement and Responsibility
Project Sponsor, Steering Committee	4 hours/month	• Ensure project aligns with County strategy and goals • Provide high-level oversight throughout the duration of the project • Create an environment that promotes teamwork and user adoption • Resolve issues and risks escalated by the Project Manager • Attend Steering Committee Meetings

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Subject Matter Expertise (SME)/ Role	Approx. Time Commitment	Key Areas of Involvement and Responsibility
		• Act as vocal and visible project champion
Project Manager	Full time	• Overall Project Management (coordinating resources, monitoring timelines, budget, etc.) • Attend Status Meetings • Attend Steering Committee Meetings • Collaborate closely with Tribridge Project Manager • Identify and mitigate issues and risks and escalate as needed in a timely manner • Enforce project governance and structure in regards to change control, communication and esclataion management • Manage County project team members with respect to County tasks and deliverables
Lead Functional SME	Near full time, averaging 20 to 40 hours per week	• Participates in requirements, design sessions, build reviews, testing, training, etc. • Coordinates functional SMEs from various departments, decision maker for prcess, requirements, design items • Key resource/interface t oTribridge functional team throughout the project
Functional SMEs	Part time depending on project phase	• Attend requirements, design, build, testing, training, etc. as directed by Lead Functional SME • Deliverable reviews • Attend Prototype, build reviews • Participate in Train the Trainer training • Conduct End User Training
IT Technical Administrator	Part time, heavier around environment installs	• Environment Setup & Software Installation • Attend Technical Training • Maintain Security & Users • Maintain/Build Workflows • Maintain/Build Reports • Execute Data Conversion in Production • Setup Integration in Production
Technical Lead	Near full-time, averaging 30 to 40 hours per week	• System experts supporting technical project activities (e.g., data conversion, integrations, report development, portal development, etc.) • Participate in data mapping, data extracts from existing legacy systems • Support meetings with agencies for data integrations • Serve as primary point of contact for all County interfaces • Act as primary technical resource for troubleshooting problems • Work with Tribridge technical personnel during project

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Project Assumptions

General Assumptions

1. <u>Scope of Work.</u> DXC will be responsible for implementing the requirements detailed in Exhibit 1 – Scope of Work. We have defined this as the "project scope." The project scope and our assumptions defined herein are the basis for the pricing and timeline provided in our proposal following the Cost section. It is important to note that the requirements provided by the County may have included functionality that is not included in the scope of services for this project as defined. All items in Exhibit 1 – Scope of Work are included in the scope of this project, unless specifically noted. Additional products or services which address other potential requirements may be identified as add-on options as well, but are not included in the total pricing provided. The table below provides the limitations of scope for each phase of the project:

Phase	Category	Scope
1	Users	Offender360 User Licenses to accommodate up to 3000 named users. A combination of Microsoft Dynamics365 device and user licenses will be delivered to support up to 3,000 named users.
1	Functionality	Classification/Reclassification/Custody Level, Keep Separates/Flags, Cell Management, Housing/Cell Changes, Incidents, Grievances, Offender Requests
1	Data Migration	Includes Tables/Data from County source systems necessary to satisfy functional requirements
1	Integrations	CJS (Booking, Cases, Charges, Cell Management, Housing, Cell Changes, Release), IPS (Initial Classification, Aggravating reclassification, Mitigating reclassification, Special flags, Demographics, Keep Separates, Incidents (Roles, Contraband, Narratives, Disciplinary, Sanctions) Dataworks, Cerner, QMS
1	Reports	Up to 200 custom reports created by DXC during implementation. The system can accept an unlimited number of reports created by MDCR. Training to produce the reports is included.
2, 3	Functionality	Intake/Booking, Inmate Tracking, Releases, Visitation, Food Services, Case Management, Court Services, Transportation Services, Mail Services, Chaplaincy Services
2, 3	Data Migration	Includes Tables/Data from County source systems necessary to satisfy functional requirements
2, 3	Integrations	Up to 20 individual integrations as defined in the Integration Design Document
2, 3	Reports	Up to 50 custom reports created by DXC during implementation. The system can accept an unlimited number of reports created by MDCR.

2. <u>Management Commitment.</u> Our experience shows that successful projects require strong management commitment. Executive sponsorship of this project is essential. Our implementation experience has proven that projects with strong executive involvement go more smoothly, produce expected budget results, and have strong client satisfaction. Accordingly, we will establish a Steering Committee to assist with critical design and procedural decisions.

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3. <u>Project Team Commitment.</u> To keep the project on schedule, we expect the core County project team to be dedicated to the project for key activities, such as functional system mapping sessions, pilot testing, system testing, training and Go-Live activities. The timeframe outlined assumes we are able to effectively coordinate the County's schedules. We will keep you informed when scheduling issues have the potential to impact the milestone dates or costs.

4. <u>Internal IT Support.</u> We expect that County will identify an internal resource, typically an IT team member, as the Dynamics 365/Offender360 technical lead. Our experience shows that this person should be identified as early in the project as possible so learning from the DXC team can being immediately. It is our expectation that this person will be required to spend approximately 50 percent of his/her time on this engagement.

5. <u>Change Orders.</u> DXC will work with GTL to execute change orders requested by the County, as appropriate, to clearly communicate additional products or services and the related fees or costs (which are outside the current hours included in this proposal using DXC's rates as provided in the Labor Fees section of the cost proposal). DXC will not incur additional time on tasks or add items to the scope of work until GTL approves the change order.

6. <u>Communication Plan.</u> Change management activities and communication planning and delivery can be very important during a software implementation project. DXC can assist in this area if needed, but we have not included time to provide these items during this implementation. County personnel will be responsible for creating the messages and executing all tasks in the communication plan on a timely basis.

7. <u>Project Management.</u> We will conduct weekly status meetings with the project team and Steering Committee meetings, as needed, throughout the project. We will prepare written status reports detailing accomplishments, next steps, and outstanding issues. Additionally, we will review key decisions, budget, project timeline, and issues for resolution. We will present these status updates in a discussion format, so the County project team and management remain actively involved in the project, and all questions and issues are addressed in a timely manner.

8. <u>Site Accommodations.</u> DXC will perform key tasks onsite at offices at your specified location, such as design sessions, testing, training, and deployment. A work area/project room will be dedicated for the duration of the project with ample workstations and ports to allow access to the application and Internet. Remote secured access (VPN) will be required to allow us to perform some tasks from our office. Ongoing DXC support requires usage of DXC remote support assistance tools (i.e., Team Viewer, LogMeIn, over HTTP, etc.)

9. <u>Projected Project Duration.</u> DXC anticipates the tasks outlined in this project to be complete in approximately 12 months for Phase 1. We will provide Phases 2 & 3 timelines upon determination and examination of the scope of items to be included in each of those phases. DXC, GTL and the County all have accountabilities to drive the project to an agreed upon duration. GTL and the County accountability items that affect the project timeline may result in change requests.

10. <u>Hardware.</u> The County will be responsible for providing desktop hardware, internet connectivity, etc. required to connect to the jail management solution hosted on premise. DXC is not providing or implementing any hardware that may be associated with this project. The implementation of

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hardware and network infrastructure to support the system is the County's responsibility. The County must provide all applicable hardware and network infrastructure and have this infrastructure in place by the start of the Design phase. Additionally, the County must provide all hardware required for other functionality (e.g., barcode scanning, driver's license scanning, portal, etc.).

11. Software Issue Resolution. While DXC works closely with Microsoft and other third party ISVs, as a partner, we cannot warrant the functionality or the performance of these software products. Our commitment is to work closely with the County and the respective publisher to quickly address any software issues that may arise. Any hours incurred addressing such issues will be billable, as we do not warrant the products. We have not included any such hours in our costs.

12. Partner of Record. To adequately support the County during the implementation of Microsoft Dynamics 365, Microsoft requests DXC be designated as the County's Partner of Record. This designation allows the implementation team to access your account information, so the team can efficiently support you during and after the project. The County will designate DXC as its Partner of Record prior to the start of the project.

13. Contingency. DXC recommends that GTL include a minimum of 20 percent contingency to accommodate any unknown elements going into a software implementation project. As part of our project management services, each month or after key milestones are accomplished, DXC will conduct a fee review process in which we will provide details on the fees incurred as well as the fees remaining to complete the project.

14. Deliverable Review. The County Project Manager shall review all DXC status reports and/or deliverables within ten (10) business days and provide written notice to DXC either accepting or rejecting the accuracy of each report and the completion of each deliverable. Without such notice, such report and/or deliverable shall be deemed accepted. The County Project Manager will collect the review comments and issue a single, unified set of comments regarding the deliverable back to Vendor Project Manager. Subsequent reviews of a deliverable are restricted to resolutions to initial set of comments.

15. System Maintenance. The County will be responsible for maintaining and troubleshooting network and infrastructure issues. The County will perform routine daily backups of all Microsoft Dynamics 365 environments.

16. Work Stoppage/Project Delay. Upon the GTL's written notice to DXC, GTL may suspend or delay the Project for a time determined by the County at its sole discretion, and specified in such notice ("Project Hold").

If GTL notifies DXC of a Project Hold, the following terms apply:
Upon notice of the Project Hold, DXC will cease all work under the Project for the time specified in GTL's notice (the "Stand Down Period").

To exercise a Project Hold, GTL must provide DXC 14 days' prior written notice specifying the reason for the Project Hold and the amount of time for the Stand Down Period. A Project Hold may necessarily result in an extension of the fixed timeline under the Initial Project Plan described in the agreed upon Project Plan. The Parties will negotiate in good faith to determine an appropriate extension and an applicable Change Order reflecting the extension and the additional associated costs.

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If the requested Stand Down Period is greater than two weeks, the GTL acknowledges that DXC cannot guarantee that the same DXC staff can return to the Project. However, DXC will make commercially reasonable efforts to have the same staffing available.

If the requested Stand Down Period is between 2 weeks to a month, GTL acknowledges that 3 days will be required for the DXC team to reengage under the Project. If the requested Stand Down Period is more than a month, GTL acknowledges that 7 days will be required for the DXC team to reengage under the Project. The re-engagement time in either case will be billed at the rate the Labor Fees section of the Cost Proposal sets forth. If the Project is terminated, GTL agrees to pay DXC the fees that have been actually incurred up to the date of termination. Should the termination occur between milestones, GTL agrees to pay DXC for the time incurred for work performed to date.

Hardware & Software Assumptions

17. Hardware and Software Requirements. All hardware and software prerequisites and requirements can be found in Exhibit 5 – Hardware and Software Requirements.

Define & Design Assumptions

18. Business Requirements & Reference Materials. The County will provide reference materials such as existing process flows, sample reports, screen shots, spreadsheets, and requirements lists that will assist DXC in gaining an initial understanding of your business and to aid in facilitating the design sessions. DXC will conduct the following requirements and discovery related sessions in coordination with County staff for Phase 1:
    - Business Requirements Discovery – Three (3) weeks of DXC led sessions
    - Data Migration Discovery - Three (3) weeks of DXC led sessions
    - Integration Discovery - Three (3) weeks of DXC led sessions
    - Application Development Discovery Two (2) weeks of DXC led sessions
    - Report/Dashboard Discovery - Four (4) weeks of DXC led sessions

19. System Design Documentation. As a result of the requirements and discovery related sessions, DXC will provide the following system design documentation:
    - Traceability Matrix
    - Functional Design Document
    - Technical Design Document
    - Data Migration Design Document
    - Integration Design Document

20. Standard Functionality. Throughout this proposal, we have assumed that the standard functionality Offender360 and Dynamics 365 provide will satisfy the County's requirements to accomplish key functions. Exactly how those functions are accomplished is always open to design. As organizations move into a new packaged software environment, it is typical for them to alter their processes and procedures in order to accommodate the methods by which the software packages accomplish particular functions. Accordingly, we have identified which functions Offender360 and Dynamics 365 support, but we have assumed that the County is willing to modify its business processes and procedures to work within the standard functionality of the software. If the County is unwilling to accept this standard functionality, and customizations or modifications of the software are required

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21. <u>Functional System Design & Prototyping.</u> DXC will lead and assume responsibility for mapping the business process functionality with Offender360 functions, including screen configuration, security requirements, reports, and workflows. DXC will develop prototypes based upon the approved requirements and County feedback. DXC will conduct prototype reviews, to offer business users the ability to visualize the system's functionality, provide final feedback, and freeze the design. We have included time for four (4) iterations of prototype reviews in Phase 1. We expect that County will submit a comprehensive list of changes, questions, bugs, etc. to DXC as part of its prototype review. County will provide one submission after each review and DXC will address the list County, making the necessary changes for County to review and approve. We will work together in a reasonably iterative approach until these submitted changes are completed and approved.

The success of this step is imperative to support successful deployment. Although prototyping will help visualize the future system, it does not demonstrate the system in a production-ready state. Based on the documented requirements, DXC will develop a system design document, which serves as a guide for the configuration of the solution throughout the project's life cycle. DXC will obtain approval and sign-off from County prior to moving forward.

Both the County and DXC understand and acknowledge that existing DXC Offender360/Dynamics 365 code may contain more modules and/or functionality than is required to deploy the scope of outlined herein. The implementation of any functionality determined outside this response is considered out of scope.

Build & Test Assumptions

22. <u>Install.</u> DXC will perform the install of Microsoft Dynamics 365, Offender360, North52 Business Process Automation, Dynamics Portal, and Scribe in up to four (4) environments.

23. <u>SharePoint Foundation and Microsoft Dynamics 365 SharePoint Connector Installation.</u> If applicable, the County will be primarily responsible for the installation, configuration, and ownership of all SharePoint Foundation environments. DXC will assist with the installation and configuration of SharePoint Foundation and configure the out-of-the-box Microsoft Dynamics 365 SharePoint connector only.

24. <u>DXC Offender360.</u> DXC Offender360, powered by Microsoft Dynamics 365, provides a key set of pre-configured entities and attributes for a corrections management solution. In other words, key data elements have already been created (i.e., tables and fields) and are available throughout the Offender360 solution on screens, reports, views, workflows, etc. We fully anticipate that Offender360 meets a number of the requirements the County presents in the requirements document. Furthermore, we do anticipate that additional configuration will be required to meet the remaining requirements as outlined in the Scope section of this response.

DXC and the County will execute a mutually agreeable Intellectual Property agreement prior to providing the County with DXC Offender360. Per the agreement, DXC will provide County with its current version of Offender360. Specifically, the County will receive the XML compiled solution (i.e., source code) for installation on its servers. In essence, this constitutes the "source code" of DXC

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Offender360. Details of this can be outlined in the Intellectual Property agreement, as well as the Warranty assumption outlined herein.

25. <u>Software Configuration/Customization.</u> DXC will lead and assume responsibility for the design, build, test and implementation of Dynamics 365/Offender360 software configurations/customizations. When reasonably necessary, DXC will recommend alternatives to existing processes to more easily adapt to the application platform. During this step, system parameters are defined and created, and Offender360 screens are configured using the Microsoft Dynamics 365 Customization Tool and/or application development tools. DXC has included time to configure the Offender360 core application to meet the needs of the County. This is inclusive of the following:
    - Standard and Custom Entities, Forms and Views
    - Entity Auditing
    - Duplicate Detection Rules
    - Security Roles & Teams
    - Workflow and Business Automation
    - Templates

26. <u>Electronic Signature.</u> DXC will implement basic electronic signature capture components that will allow the digital capture of a signature using a signature pad, store it with the record it is associated with and provide the ability to insert the signature into documents and reports. Any requirement to include third party software as part of this implementation will be viewed as a change in scope, which may require additional time or incur consulting fees.

27. <u>Portal Configuration.</u> DXC will implement portal components for external access and the ability to create/modify/view information related to Grievances, Offender Requests and Mail Tracking. Additional portal components identified during the project will be viewed as a change in scope, which may require additional time or incur consulting fees.

28. <u>System Testing.</u> The County will document user test scenarios to assist with the system testing effort. The County will perform the majority of system testing tasks with DXC's guidance. The County will also be responsible for the development of test cases and test scripts with DXC's support. The County is responsible for development of use and test cases and execution of all test cases. All use cases must be developed and delivered to DXC at least one week prior to the end of design phase. DXC will conduct the following testing and remediation sessions for Phase 1:
    - Business Process Testing - Two (2) weeks
    - System Testing - Two (2) weeks
    - User Acceptance Testing - Four (4) weeks

Reporting Assumptions

29. <u>Custom Reports and Views.</u> Of the reports identified in the attachments provided by the County, DXC estimates that approximately two hundred (200) of these will be custom SQL Service Reporting Services reports, whereas the remaining items will be custom views and filters built within the solution. DXC has included time to build up to two hundred (200) SSRS reports. Without a defined scope of work for Phase 2 and 3 reports, for estimation purposes, DXC has included an additional fifty (50) reports to be developed during these phases. The number of reports developed in each phase may be modified to meet the County's needs, but the total shall not exceed two hundred fifty (250). Any additional reports

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required will be viewed as a change in scope, which may require additional time or incur consulting fees. One day of custom SSRS report training for the County is included within this scope of work. After training, the county may create an unlimited number of SSRS reports for use in Offender360.

Training Assumptions

30. <u>Functional Training – Train the Trainer.</u> Training is a key to the success of the project through user adoption of the system. Functional training will be provided to the project team to enable pilot and system testing. This project team will become system 'super users' and learn those aspects of the Microsoft Dynamics 365 solution relevant to the Offender360 solution. DXC will conduct training onsite at the County offices. DXC has included time for the following for Phase 1:

- Two (2) weeks of super user train the trainer sessions for up to 20 people
- Training will accommodate a 7 hour, 7 day workflow.

DXC will work with the County to develop a detailed training plan and agenda during the Build Phase of the project that accurately reflects the functional areas being delivered in Phase 1. The functional training sessions will cover the following proposed functional areas:

- Offender
- Booking
    - Cases
    - Charges
- Classification/Reclassification/Custody Level
- Keep Separates/Flags
- Alerts
- Facility Management
    - Housing Units
    - Pods
    - Cells
    - Beds
- Cell management
- Housing/Cell changes
- Movement
- Incidents
    - Incidents
    - Disciplinary
    - Sanctions
    - Corrective Consultation
    - Use of Force
    - Hearing
- Grievances
- Offender Requests

31. <u>Functional Training – End User Training.</u> After completing the train the trainer sessions, the County will deliver all end user training sessions, which will be scheduled in order to customize the training per role. DXC will provide support during these sessions.

32. <u>Administrative & Technical Training.</u> DXC will train the administrative and technical team. DXC has included up to one (1) week of administrative and technical training sessions. DXC will provide system

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documentation as part of the project. DXC proposes the following training areas. DXC will finalize the training courses with the County:

- Introduction to Offender360
- Administration
  - o Security Roles and User Maintenance
  - o Teams
  - o Field Level Security
- Microsoft Dynamics 365 Processes (workflows)
- Microsoft Dynamics 365 Advanced Find Query Tool
- Microsoft Dynamics 365 Report Wizard
- Microsoft Dynamics 365 Email Templates
- Microsoft Dynamics 365 Word Templates
- Microsoft Dynamics 365 Entity Auditing
- Microsoft Dynamics 365 Duplicate Detection Rules
- Microsoft Dynamics 365 Dashboards
- Microsoft Dynamics 365 Customization Tool
  - o Basic customization of Forms & Views (add a field to the database, add a value to a pick list, change a label name, add/change a view)
- Scribe & Formula Manager Administration Overview (data conversion and integration tool)

Training Content Development: DXC has included time for instructional design support for the creation of an overall training plan and baseline Offender360 training material to the County. For most effective learning transfer and knowledge retention and based on the total number of users to be trained, we recommend starting classroom training sessions approximately two (2) months before Go-Live in order to ensure knowledge retention and ensure that we are basing the training on the most up to date system configurations. DXC will be update the baseline Offender360 training material based on configuration changes made to the solution in preparation for End User training. DXC has included time to develop up to twenty (20) Epilogue simulations for Phase 1. Updates to training materials for any post implementation changes to the configuration of the solution made by County resources will be the responsibility of the County.

Data Migration and Integration Assumptions

33. Software Tools. Included with Offender360 is the Scribe software application that will be implemented in conjunction with Microsoft Dynamics 365 for integration and data migration purposes. This product has been factored into our scope of work, timeline and costs.

34. Data Cleansing and Data Conversion Approach. DXC will work with the County to determine the historical data required to satisfy the functional requirements in Offender360. Data from the County's legacy systems will be converted into Offender360 entities as described below:

- Offender
- Booking
  - o Cases
  - o Charges
- Classification/Reclassification/Custody Level
- Keep Separates/Flags
- Alerts
- Facility Management

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- o   Housing Units
- o   Pods
- o   Cells
- o   Beds
- Cell management
- Housing/Cell changes
- Movement
- Incidents
  - o   Incidents
  - o   Disciplinary
  - o   Sanctions
  - o   Corrective Consultation
  - o   Use of Force
  - o   Hearing
- Grievances
- Offender Requests

DXC has estimated additional time and resources required to perform migration of the historical data during Phases 2 and 3. DXC will migrate the historical data required to satisfy the defined functional requirements implemented in Phases 2 and 3. If the County requests additional data migration outside the defined functional requirements of Offender360, it will be considered as a change in scope. This may require additional time or incur consulting fees.

Large-scale data migrations consisting of millions of rows of data cannot be executed overnight. Since most jail management systems operate 24/7 and cannot be taken offline for an extended period of time, DXC employs a phased approach to migrating data into the production system. Based on time calculations gathered during the testing phase of the data migration, a projected start date for the data migration is selected to begin migrating data from the legacy data contained in the staging database. This can be days or weeks prior to the actual go live date of the system. An initial, full data load is executed to populate the production database prior to the go live. Subsequent incremental data loads of new or updated day are completed in each week leading up to the go live date. Since the incremental data loads only contain new or updated data, the data volume is much less and can be executed much faster. The night of go-live, the final incremental data load on all tables is completed. This approach has allowed DXC to minimize the downtime of the existing operations during the cutover to the production system.

The staging database used in the data migration effort is a stand-alone SQL database, which is a simplified replica of the production Offender360 database. It contains all of the tables necessary to support the migration of data from all legacy systems into the new format. The staging database is structured to more easily facilitate the transfer of data between it and the final production database. DXC will work with the County to understand the staging database structure, schema and transformation rules so that the transfer of data into the staging environment can be done as easily and efficiently as possible.

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Past data conversion projects have included small, relatively easy database conversions with a small subset of records to enterprise level migrations of high complexity migrating hundreds of tables with over 100 million rows of data. Since the County data migration will include a large set of data with complex rules and many tables, the following points are based on those integrations that DXC has completed that match these criteria.

As described above, a collaborative approach is required to successfully execute a large-scale data migration. A typical approach has the breakdown of responsibilities as follows:

DXC Responsibilities
- Work with the County with the development of the data conversion plan
- Provide data validating and deduping data assistance
- Design and provide relevant data import templates for the County's use
- Submit for approval written data mapping template where applicable
- Review mappings with County
- Map data
- Assist County with system testing

DXC Deliverables
- Deliver Data Conversion Plan
- Deliver written data mapping template for approval
- Deliver data migration test completion and acceptance document

County Responsibilities
- Identify data to be migrated
- Extract data from existing systems to be migrated
- Populate import templates provided by DXC
- Cleanse and validate data by removing unwanted records from the data and verifying the accuracy of data to be migrated.
- Perform any manual data entry that may be required
- Perform system testing

35. Data Interface Approach. The source of the systems to be interfaced with Offender360 for Phase 1 are described below:

    1. Local Criminal Justice System (CJS)
        a. Booking
        b. Cases
        c. Charges
        d. Cell Management
        e. Housing
        f. Cell Changes
        g. Release

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2. Inmate Profile System (IPS)
   a. Initial Classification
   b. Aggravating reclassification
   c. Mitigating reclassification
   d. Special flags
   e. Demographics
   f. Keep Separates
   g. Incidents (this may be more than one interface, see below)
      i. Roles
      ii. Contraband
      iii. Narratives
   h. Disciplinary
   i. Sanctions
3. Dataworks
   a. Mugshot
4. Cerner
   a. Mental health information
5. Queue Management System (QMS)
   a. PREA Questionnaire Information

Without a defined scope of work for Phase 2 and 3 interfaces, for estimation purposes, DXC has included an additional twenty (20) interfaces to be developed during these phases. If additional interfaces are required in Phases 2 and 3 to meet the functional requirements as defined by the County and approved by GTL, a change order may be required.

The County understands the data in the existing data interface sources, and are responsible for identifying the data that will be interfaced to Offender360. DXC will help the County map the source data to Offender360. Once we determine what data is needed and how it maps to Offender360, test data will be extracted from its data source, aggregated and presented in a format that can be interfaced into Offender360. DXC will provide data templates which the County will use to present the data.

DXC will assist County staff with developing methods of data validation and accessing the interfaced data from Offender360 for validation, but responsibility for validating data both prior to and after integration rests solely with the County. Once the data has been provided, DXC will use the Offender360 integration toolset proposed to interface the data into Offender360.

Where applicable, DXC will work jointly with the County and any external Vendors to develop, test, validate and implement the integration components. In such cases, it will be the responsibility of both the County and the Vendors to review, test, validate and sign-off on the completion of each integration.

Go Live/Cut Over Support Assumptions

36. **"Go-Live" Support.** DXC has included one (1) week of onsite "Go-Live" support in which DXC will work with the County to stabilize your Microsoft Dynamics 365 and Offender360 environment for Phase 1.

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Post Implementation Support and Maintenance Assumptions

37. Post "Go-Live" Support & Stabilization. DXC has included three additional (3) weeks of post "Go-Live" support and system stabilization in which DXC will work with the County to stabilize your Microsoft Dynamics 365 and Offender360 environment for Phase 1. This may consist of a combination of onsite and offsite support personnel.

38. Ongoing Support. DXC will provide ongoing support to the County in accordance with the terms set forth in the Customer Care Unlimited Support Plan. A draft of the Customer Care Unlimited Support Plan can be found in Exhibit 3.

39. DXC Warranty and Maintenance. DXC will provide warranty and maintenance support of the solution proposed in Offender360 End User License Agreement (EULA). We warrant that our services will be performed in accordance with each Statement of Work and in a professional and workmanlike manner, and we will undertake to correct any work not in compliance with this warranty. Our warranty is valid as long as the GTL on behalf of the County is current on a DXC Offender360 Maintenance Plan, which is included in year 1 and must be renewed at the anniversary date of the software purchase. GTL on behalf of the County may elect to contract for additional years of maintenance as part of the contract phase. DXC Offender360 is built on/within Microsoft Dynamics 365. As long as GTL on behalf of the County is current on its DXC Offender360 Maintenance Plan, DXC warrants that DXC Offender360 will function as designed with supported versions of Microsoft Dynamics 365. Specifically, our warranty applies only to system error issues in DXC Offender360, commonly referred to as bugs. A system error means any error, problem or defect, which is reproducible by us, that results from an incorrect functioning of DXC Offender360. For example, the system adds 2 + 2 and the result is 5, the user attempts to save information and the save function does not work, a report displays invalid results, Plug-in functionality does not perform as designed. Our warranty and maintenance plan covers these issues, but is not applicable if the problem is caused by (i) any modification, variation or addition to DXC Offender360 not performed by DXC; (ii) your incorrect use, abuse or corruption of DXC Offender360; (iii) use of DXC Offender360 with other software or on equipment with which DXC Offender360 is incompatible, or (iv) error conditions that do not significantly impair or affect operation of DXC Offender360. Additionally, the warranty and maintenance plan does not cover infrastructure-related performance issues. Time spent determining whether an issue is a bug (i.e., covered under warranty) is included in our warranty. Time spent determining and addressing an issue that is not a warranty item will be considered Post Implementation support services (and not warranty services). DXC and GTL on behalf of the County will work together to determine a mutually agreeable process and structure for Warranty issues.

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Cost Proposal

Offender360 Itemized Cost Breakdown:

Our itemized proposal cost breakdown, outlined in the cost table below, represents maximum costs and is a fixed price to GTL. The costs contain the required services, software licenses, maintenance and support for 5 years to meet the County's needs and requirements. All costs include all direct out-of-pocket expenses and travel that may be associated with the project, including the following: airfare, hotel, meals, and transportation for the project's duration. GTL will not incur any separate fees from DXC for travel and expenses during this project's duration.

Software Licensing Costs	
License Description	**Cost**
DXC Offender360 Software License (On Premise Perpetual License for Testing, Training, Development and Production Environments) of up to 3,000 Users at a one-time cost to be acquired simultaneously. Offender360 product license includes the following: Microsoft Dynamics365 technology platform with embedded 3rd Party components, e-learning, configuration, data integration/migration tools and external web portal for unlimited external users all-inclusive of Offender360. A combination of Microsoft Dynamics365 device and user licenses will be delivered to support up to 3,000 named users. All licenses will be provided upon contract signing. Payment milestones are provided below.	
Software Milestone #1: Contract Signing (GTL FY 2018)	$781,800
Software Milestone #2: January 31, 2019 (GTL FY 2019)	$390,900
Software Milestone #3: March 31, 2019 (GTL FY 2019)	$390,900
*Software Cost Total	$1,563,600
*Offender360 license is a perpetual license for all software components delivered as on premise deployment for up to 3,000 County named users and an unlimited number of external users via the Offender360 Web Portal module. Tax, if applicable, is not included. Offender360 Licensing includes the embedded 3rd party components: Offender360 Integration Tool (Embedded Partner – Scribe) Offender360 Rules Engine (Embedded Partner – North52) Offender360 Portal (Embedded Partner – Peak Portals) Offender360 Training (Embedded Partner – Epilogue – OPUS 2000)	

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Project Implementation Costs – Phase One – Payment Due upon Milestone Completion	
Description	**Cost**
Kickoff – Currently targeting mid-November 2018	$116,324
Project Schedule	$77,549
Requirements & Traceability Matrix	$77,549
Functional Design Document	$93,059
Integration Design Document	$65,917
Data Conversion Design Document	$65,917
Report/Dashboard Design Document (will need interim approvals)	$93,059
Prototype 1 Session Complete	$38,775
Prototype 2 Session Complete	$38,775
Functional Development Complete (System Configuration)	$155,098
Data Integration Development Complete	$217,138
Data Conversion Development Complete	$85,304
Custom Interfaces Complete	$93,059
Report/Dashboard Development Complete (will need interim approvals) - 40 reports	$193,873
Report/Dashboard Development Complete (will need interim approvals) - 40 reports	$193,873
Report/Dashboard Development Complete (will need interim approvals) - 40 reports	$193,873
Build Review 1 Session Complete	$38,775
Build Review 2 Session Complete	$38,775
Business Process Testing Complete	$46,530
System Testing Complete	$46,530
User Acceptance Testing Complete	$46,530
Training Complete	$69,794
Go Live	$38,775
Post Go Live Support	$46,530
Implementation Cost Total	**$2,171,377**

Project Implementation Costs – Phase Two & Three	
Description	**Cost**
Milestones for Phases 2 and 3 – To Be Determined	
Implementation Cost Total	**$2,187,350**

Labor Fees by the Hour	
Position/Role	**Cost**
Senior Project Manager	$195
Enterprise Technical Architect	$215
Solution Architect	$175
Senior Development Manager	$155
Senior Business Analyst	$155
Test Manager	$155
Interface Manager	$155
Data Conversion Manager	$155
Programming & Product Customization	$125
Functional Configuration	$135
Data Conversion and Interface Developers	$125
Training Development and Delivery	$135
Help Desk Support	$125

Maintenance and Support Costs	
Maintenance and Support Description	**Cost**
Year 2 – Offender360 & MS Dynamics 365 Software Maintenance	$380,824
Year 2 – Offender360 Unlimited 24x7, 365 Ongoing Support	$96,000
Year 3 – Offender360 & MS Dynamics 365 Software Maintenance	$380,824
Year 3 – Offender360 Unlimited 24x7, 365 Ongoing Support	$96,000
Year 4 – Offender360 & MS Dynamics 365 Software Maintenance	$380,824
Year 4 – Offender360 Unlimited 24x7, 365 Ongoing Support	$96,000
Year 5 – Offender360 & MS Dynamics 365 Software Maintenance	$380,824
Year 5 – Offender360 Unlimited 24x7, 365 Ongoing Support	$96,000
**Maintenance and Support Cost Total	**$1,907,296**

**Software Maintenance begins in year 2 and is renewed automatically at the anniversary date of the contract signing. Ongoing support services begin in year 2 and is renewed annually.

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Proposed Project Timeline

The project timeline provided below is a high-level representation of the main components of the project and not meant to convey actual start/end dates, durations, milestones or deadlines. The project timeline is provided to give the County estimates for project planning and resource allocation purposes. The timeline portrayed is subject to change. During the Define Phase of the project, DXC and the County will collaborate to create an accurate project plan that includes actual start/end dates, durations, milestones or deadlines for Phase I of the project.

This timeline is also provided with our submittal in its original Excel format.

PHASE 1

Week: 1 2 3 4 5 6 7 8 9 10 11 ... 13 15 16 17 18 19 20 21 22 23 24 ... 26 27 28 ... 31 32 ... 34 35 36 ... 41 42 ... 44 ... 49 50 ... 51

Define Phase
- Initiate Project
- Solution Overview Training
- Core Team Training
- Business Requirements Discovery
- Requirements & Traceability Matrix
- Data Migration Discovery
- Data Integration Discovery
- Application Development Discovery
- Report/Dashboard Discovery

Design Phase
- Functional Design Document
- Prototyping
- Technical Design Document
- Reporting Design Document
- Dashboard Design Document
- Data Migration Design
- Data Integration Design

Build & Test Phase
- Provision Dev, Test and Training Environments
- System Configuration
- Prototyping and Build Reviews
- Data Migration Build
- Data Integration Build
- SDK Customizations
- ISV Build
- Reports Build
- Dashboards Build
- Business Process Testing
- System (End to End) Testing
- UAT Testing

Deploy Phase
- Provision Production Environment
- Technical Training
- Functional Training
- Mock Go Live
- Data Migration Deploy
- Data Integration Deploy
- Go-Live Activity & Support
- Post Go-Live Support/Stabilization

Project Management & QA
- Ongoing Project Management

Define Phase
- Initiate Project
- Solution Overview Training
- Core Team Training
- Requirements Discovery
- Requirements, Use Case & Traceability
- Data Migration Discovery
- Data Integration Discovery
- Application Development Discovery
- Report/Dashboard Discovery

Design Phase
- Functional Design Document
- SDK Design Document
- Reporting Design Document
- Dashboard Design Document
- Data Migration Design
- Data Integration Design

Build & Test Phase
- Provision Dev, Test and Training Environments
- System Configuration
- Prototyping
- Data Migration Build & Test
- Data Integration Build & Test
- SDK Customizations
- ISV Build & Test
- Reports Build & Test
- Dashboards Build & Test
- Business Process Testing
- System (End to End) Testing
- UAT Testing

Deploy Phase
- Provision Production Environment
- Technical Training
- Functional Training (Train the Trainer)
- End User Training (Self/Video Based)
- Mock Go Live
- Data Migration Deploy
- Data Integration Deploy
- Go-Live Activity & Support
- Post Go-Live Support/Stabilization

Project Management & QA
- Ongoing Project Management

Note (Design Phase): David Pritchetts – For efficiency, Grievance requirements gathering and design performed in parallel with Incidents, Classification, etc.

Note (Build & Test Phase): David Pritchetts 7/25/18 – Grievance Build Phase can begin after completion of Incidents, Classification, etc. They will be a group during the Go Live of the other components to support.

Go Live Support

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Proposal Acceptance

The parties hereby agree to the proposed deliverables and costs set forth on the preceding pages, effective as of _____.

(Date)

DXC Technology
(Contracting as Tribridge Holdings, LLC)

Global Tel Link (GTL)

_____

(Signature)

_____

(Signature)

_____

(Print Name)

_____

(Print Name)

_____

(Title)

_____

(Title)

Exhibits

Exhibit 1 – Scope of Work

JAIL MANAGEMENT SYSTEM SCOPE OF WORK

Operational Areas Included

- Intake/Booking
- Classification/Housing
- Boot Camp
- Case Management
- Incident Reporting/Disciplinary
- Grievances
- Inmate Tracking
- Chaplaincy Services
- Court Services
- Food Services
- Mail Services
- Transportation Services
- Visitation
- Releases

Acronyms Used Within This Scope of Work

ACA	American Correctional Association
AFIS	Automated Fingerprint Information System
AFM	Automated Arrest Affidavit Form
AFORM	Arrest Affidavit Form
AIM	Administrative Investigations Management
BC	Boot Camp
CHS	Corrections Health Services
CIN	Criminal Identification Number
CJS	Criminal Justice System
CMRP	Court Monitored Release Program
CO	Correctional Officer
COS	Cost of Supervision
CPOE	Computerized Physician Order Entry
CRIPA	Civil Rights of Institutionalized Person's Act
CSB	Court Services Bureau

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DOJ	Department of Justice
DRL	Driver's License
DSOP	Department Standards Operating Procedures
DV	Domestic Violence
EAM	Enterprise Asset Management
ECM	Electronic Content Management System
FCAC	Florida Correctional Accreditation Commission
FSA	Food Services Administration
FSB	Food Services Bureau
GIS	Geographic Information System
GPS	Global Positional System
GTL	Global Tel*Link
GUI	Graphical User Interface
HIPAA	Health Insurance Portability and Accountability Act of 1996
HS	Health Service
HSU	Hospital Services Unit
ICE	Immigration and Customs Enforcement
IBM	International Business Machine
IDMS	Integrated Data Management Systems
IDS	Identification Serial Number
IDW	Inmate Data Warehouse
IPS	Inmate Profile System
ISB	Information System's Bureau
ITD	Information Technology Department
JHS	Jackson Health Systems
JMS	Jail Management System
JRS	Jail Release System
KOP	Keep on Person
LMP	Last Menstrual Period
MAR	Medication Administration Record

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MD	Medical Doctor
MDC	Miami-Dade County
MDCR	Miami-Dade Corrections and Rehabilitation Department
MDPD	Miami-Dade Police Department
MRU	Monitored Released Unit
NCCHC	National Commission on Correctional Health Care
OTPS	On Target Performance Systems
PDO	Public Defender's Office
PPD	Purified Protein Derivative
PREA	Prison Rape Elimination Act
PTDC	Pretrial Detention Center
PTSB	Pretrial Services Bureau
PTS	Pretrial Services
QMS	Queue Management System
REG	Richard E Gerstein Justice Building
RID	Rapid Identification
SAO	State Attorney's Office
SAN	Storage Array Systems
SCP	Secure Copy Protocol
SIAB	Security and Internal Affairs Bureau
SOP	Standard Operating Procedures
SOAP	Subjective, Objective, Assessment Plan (format for medical reports)
SOAPE	Subjective, Objective, Assessment Plan Education
SSH	Secure Shell Protocol
SFTP	Secure File Transfer Protocol
TB	Tuberculosis
TGK	Turner Guilford Knight Correctional Center
TSSB	Transportation and Special Services Bureau
WAS	WebSphere Application Server

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The acceptable codes for the Meet column are as follows:

- "Y" – Requirement will be FULLY met by go live date with the proposed solution. This includes any items or areas that require minimal configuration using the out of the box configuration toolset of Offender360.
- "M" – Requirement will be met via modification of the base source code, development of custom code or add-ons of the solution or implementation of third party solutions by the go live date.
- "N" – Requirement will not be met; please advise why. A blank or N/A in any box will be interpreted as an "N".

FUNCTIONAL REQUIREMENTS			
General Functions and Features		**Meets**	**Comments**
Operational			
1.	Must comply with: - Florida Model Jail Standards(FMJS), - American Correctional Association (ACA), - Florida Correctional Accreditation Commission (FCAC), - Civil Rights of Institutionalized Person's Act (CRIPA), - Department Standard Operating Procedures (DSOP), - Standard Operating Procedures (SOP) - Limited English Proficiency (LEP) - Medical Standards - Prison Rape Eliminations Act (PREA) - Florida State Statutes - Americans with Disabilities Act (ADA) - Miami-Dade County Code and Ordinances - Florida Department of Law Enforcement (FDLE) - FBI Criminal Justice Information Services (CJIS)	Y	
2.	Able to accommodate simultaneous users 24/7 except for scheduled maintenance.	Y	
Security			
3.	Ability to authenticate using Active Directory.	Y	
4.	Ability to provide role based security.	Y	
5.	Ability to define function and field level security based on roles.	Y	

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	General Functions and Features		
6.	Ability to interface bi-directionally with other agencies using different types of technology. (See Interface Specifications page)	Y	
7.	Provide a web based and mobile capable application.	Y	
8.	Offline capable application with the ability to function in disconnected environments and automatically transfer the information once connectivity is re-established.	M	Offender360, powered by Dynamics, is a 100-percent web-based application accessible via web browser. To allow offline access would require use of the Dynamics 365 Outlook Client.
9.	Perform detailed analysis to obtain business process requirements, edit and cross edits, and interoperability requirements between vendor packages as well as MDC applications interfacing with the JMS.	Y	
10.	Data conversion from existing applications to load historical data into the JMS. For example, data pertaining to Case/Charges, Incidents, Disciplinary, Grievances, Classification, Medical, Visitation, Cell History, Special and Faith Based Diets, etc.	Y	
11.	Ability to create, electronically sign and store custom forms in the JMS.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
12.	Mugshot must be present in all inmate related screens and printed documents.	Y	
13.	Ability to create a summary screen with different tabs that will display all the information pertaining to an inmate.	Y	
14.	Ability to produce detailed audits of all online transactions to include last updated date, time, and user id that performed the update.	Y	

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15.	No transaction against the JMS performed by SIAB can be audited.	Y	
16.	Ability to associate data to various keys including but not limited to CIN, IDS, Jail Number, Mugshot ID, Court Case Number, Last Name, First Name, etc.	Y	
17.	Ability to view historical data for an inmate using CIN.	Y	
18.	Ability to modify software and comply with any present or future legally mandated requests within statutory deadlines.	Y	
19.	Ability to interface with MDC's ECM for any documents scanned electronically or manually.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
20.	Ability to interface with MDC's Inmate Data Warehouse (IDW) information such as but not limited to Incident Reporting, etc.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
21.	Ability to interface with OTP's AIM application for data viewing.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
22.	Ability to interface with the County's GIS for address validation.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
23.	Ability to interface with eNotify for municipality and officer information.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.

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24.	Ability to interface with Dataworks for Rapid ID information and mugshots.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
25.	Ability to interface with CJIS for the synchronization of court case number, charges (arrest, filed, final), dispositions, bond information, hearings, and dispositions.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
26.	Ability to interface with internal and external systems for booking/release/cell change information (Sapphire, Cerner, PDO's case management system, etc).	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
27.	Ability to identify protected information (arrested County employees, law enforcement, judges, etc), making the information not available to public viewing and restricting internal viewing.	Y	
28.	Ability to incorporate a public view of inmates in corrections custody.	Y	
29.	Ability for the application software to be customizable to meet business process requirements.	Y	
30.	Ability to incorporate data validation (spell check and formatting capability on narrative/text fields).	Y	
31.	Ability to incorporate error handling, mechanism to manage data exchange exceptions.	Y	
32.	Ability to automatically populate available inmate data on the screen using the jail number or some other key value.	Y	
33.	Ability for system to be configurable when it comes to number of days, constraints, etc. For Example: An inmate has 30 days to claim property after release.	Y	
34.	Ability for users or outside agencies to receive email alerts.	Y	
35.	Ability for users to have a task list for all records pending their review with links to the screens	Y	

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	where they need to perform the necessary actions.		
36.	Ability to capture pictures, upload attachments and enter inmate notes throughout each module of the system.	Y	
37.	Ability to configure workflow processes throughout the system with required steps to capture information, approvals and forms with electronic signature.	Y	
38.	Ability to accommodate different correctional facility layouts.	Y	
39.	Ability to support integration with County standard desktop productivity tools such as Microsoft Office, and email tools such as Microsoft Outlook.	Y	
40.	Ability to easily import/export digital images, fingerprints, property data and associated document into the application software using standard image and document formats and associate the image to the appropriate document.	Y	
41.	Ability to allow outside applications to query based on a key(s) and send JMS data to the calling application.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
42.	Ability to scan and index scanned documents that cannot be automated.	Y	Offender360 natively supports and integrates with Microsoft SharePoint, which provides document indexing capabilities. Standard attachment of scanned documents to records in Offender360 is also supported out of the box. Integration with other third party document management solutions is not included in the scope of our estimate.
43.	Ability to automate any non-English form. MDCR has forms that are also written in Spanish and Creole. For example: the Inmate Request Form.	Y	Offender360 natively supports the automatic translation of its' electronic forms through language packs that can be applied to the dynamics

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			platform. Output forms, such as documents or reports, can be created using the language that is required, but no automatic translation of the output is currently available.
Reports			
44.	Ability to provide a replicated database for reporting purposes.	Y	
45.	Ability to define user access roles for report viewing.	Y	
46.	Ability to schedule reports.	Y	
47.	Provide built-in reporting features to create ad hoc reports using any of the data captured by the JMS and to export to PDF's or Excel.		
48.	Ability to provide data visualization tools such as real-time charts and role-based user dashboards.	Y	
49.	Ability to meet State reporting requirements such as but not limited to: • Incident Tracking reports/graphs by Cell-Housing Location, CRIPA Audit Questions, Inmate, Mental Health Level, Type, Treatment Provided, Injury Type, Time of Day, Death, Use of Narcan, by Type of Major Incident, Weapons Involved by date rage, month, quarter, year. • Incidents External and Internal Reviews • Transfers Due to Disciplinary Actions, to Prevent Fight, for Aggressive/Disruptive Behavior. • Emergency Treatment Orders (ETO) • Incident Tracking reports/graphs such as Attempted Battery on Inmate or on Staff, Attempted Battery Self Audit Report, Battery on Inmate or on Staff, Battery Self Audit Report by Inmate, Cell-Housing Location, Facility, Cause of Battery, Contraband, Injury Type, Medical Transport Provided, Restraint Type, Weapon Used, Medical Treatment Provided by date rage, month, quarter, year.	Y	

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	• Response-To-Resistance Incident Reports/Graphs by Contraband Found, Inmate Injury Type, Inmate Medical Treatment Provided, Juveniles Involved, Medical Transport Provided, Pregnant Inmates Involved, Reason for Response, Response Used, Restraint Type, Weapons Found, with ADP Rate Per 1000, RTR Self Audit Report by date rage, month, quarter, year. • Contraband Incidents reports/graphs by Shakedowns, Non-Shakedown, Weapons found, K9 Searches by date rage, month, quarter, year. • Disciplinary tracking reports/graphs by cell-unit, inmate, dispositions, facility, facility supervisor Concurrence, Facility Supervisor Clearance, Facility Supervisor Extensions, Inmate Waiver, Loss of Privilege, Mental Health, Mental Health Professional Authorization, Reporting Officer, Rule Violations, Sanctions, Status, by date rage, month, quarter, year • Disciplinary Reports Pass Due on Date Selected. • Inmate Disciplinary Report Hearings by Date Range. • Inmate Disciplinary Reports Summary by Date Range. • Statistical reports such as Inmate Disciplinary Report Rate Per 1000 Per Facility, Inmate Disciplinary Report Rule Violation Ranking by date rage, month, quarter, year. • Corrective Consultation reports/graphs by Facility, Cell-Unit, Inmate, Reporting Officer, Rule Violations by date rage, month, quarter, year. • Corrective Consultation Rule Violations Ranking. • Sanctions Tracking report/graph by date rage, month, quarter, year. • Grievances tracking reports/graphs by inmate, outcome, review status, type, Compliant Time, Noncompliant Time, Forwarded To SIAB, Inmate Resolution by date rage, month, quarter, year • Grievances Exceeding Response Time by date rage, month, quarter, year.		

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	• Grievance Self-Audit by date rage, month, quarter, year. • Report of Pending Grievances Where Email Was Sent by date rage. • Grievances Appealed Reports/Graphs by Type, Follow Up Action, Appeal Status by date rage, month, quarter, year. •		
Hardware			
50.	Ability to electronically track the movement of the inmate in the jail with universal barcode scanners.	M	Offender360 has the ability to interface with various barcode scanners. The County will be responsible for supplying the hardware to support this requirement.
51.	Ability to provide signature pads which interface with the JMS.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.

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Intake/Booking		Meets	Comments
52.	Ability to allow for a bi-directional interface with the County's CJIS, a mainframe IDMS application, to process paper and electronic arrest forms.	Y	
53.	For paper arrest forms, allow for the capture of arrest information including, personal information to include veteran, information, charges (statutes must include predictive text), warrants (include court case number and warrant type), holds, and victim information for DV cases, generate a booking number, and send the information to CJIS receiving the court case number and related information.	Y	
54.	For electronic arrest forms, receive the personal information, arrest, charge, booking number, court case number, and related case information from CJIS.	Y	
55.	Ability to allow for the processing of additional arrest (paper or electronic arrest forms). If paper arrest form, send via an interface with CJIS, the additional charges for court case number generation and receive the court case number from CJIS. If electronic, accept from CJIS the court case number and charges.	Y	
56.	Ability to incorporate edits associated with booking information such as: • Municipality codes, officer badge numbers via an interface with eNotify • Police Case Number via corresponding masks by municipality • Statutes via an interface with the Automated A-Form Application • Personal information such as gender, race, scars marks and tattoos using FDLE standards. • Warrant validation via an interface with CJIS. • Address validation via an interface with GIS.	Y	

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	• Driver's License validation via an interface with DHSMV.		
57.	Ability to print priors to include local (CJIS), state (FCIC), and national (NCIC).	Y	
58.	Ability to incorporate alerts such as wanted messages, habitual criminal offender, DV, probation violation.	Y	
59.	Ability to interface with FCIC sending arrest, charge, court case information.	Y	
60.	Ability to process bond surrenders.	Y	
61.	Ability to interfaces to the PDO and SAO case management systems.	Y	
62.	Booking queue indicating the status of every booking including those pending review/approvals. Ability to book arrestees in the order they deem necessary, and generate a pre-booking log.	Y	
63.	Prevent duplicating inmate records using validations including personal identifiers, as well as gender, height, weight.	Y	
64.	Ability to search for an inmate's prior incarceration information, alerts, and records (date of birth, SSN, and name/alias information) by key identifiers (Jail number, IDS, CIN) and name search to include Soundex.	Y	
65.	Ability to display inmate custody booking status such as sentencing, diversion programs, and detainer information.	Y	
66.	Ability to display the status of an inmate within the intake process via large monitors in the intake unit. Ability to send alert once the booking process is completed.	Y	
67.	Printable booking report that includes inmate personal data, photo, and all information related to the booking and associated cases.	Y	
68.	The system must allow users to book a subject that does not provide a name ("John Doe").	Y	
69.	Ability to pre-populate all inmate information from previous booking.	Y	

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70.	Ability to add additional fields and make fields mandatory, as needed.	Y	
71.	Ability to merge Booking Numbers or transfer Booking Number to a different person after positive ID.	Y	
72.	Ability to expunge records auditing who and when the deletion was made.	Y	
73.	Ability to capture the results of inmate searches and body scanners.	Y	
74.	Ability to complete PREA Screening questionnaire, to include the time and place of completion; flag inmates to identify them during the housing/cell assignment process. Ability to alert PREA Coordinator and PREA Facility Compliance Manager when a PREA inmate is transferred to a different housing.	Y	
75.	Ability to document and photograph any scars, marks and tattoos and to enter textual information identifying the area of the inmate's body in which the scar, mark, and/or tattoo is located as well as a description. Allow users to perform searches by tattoo type, dOffender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.n, location, etc.	Y	
76.	Ability to capture, modify and remove alerts, medical restrictions, dietary restrictions throughout the system.	Y	
77.	Alerts from prior admissions must be brought to user's attention.	Y	
78.	Ability to differentiate between different inmate types: sentenced, pre-trial, male/female, juvenile/adult, etc. Ability to flag an inmate as a "weekender".	Y	
79.	Ability to record and upload pictures of sustained injuries, and to identify if those injuries were from the police. Ability to record to which hospital, if any, the inmate was taken to prior to arrival.	Y	

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80.	Provide card reader capabilities for capturing data from a driver's license, ID card, or county issued inmate ID card.	M	This would require an integration component to automate the receipt of this data into our solution.
81.	Ability to record reason for rejection if rejected by medical prior to intake. (associate to a pre-booking number)	Y	
82.	Ability to record the arrival of an inmate. This includes agency, arrival date and time, and custody level of inmate.	Y	
83.	Ability to print ID cards, wristbands, module cards and other documents that are part of the intake/booking process. The system must allow users to print barcoded labels for inmate file, clothing and property tracking, etc.	Y	
84.	Ability to record DNA collection details such as date/time, staff member collecting the sample. Ability to identify inmates that have had previous DNA collections.	Y	
85.	Ability to send out notifications and alerts to other external agencies such as Homeland Security, ICE, etc. Ability to create a detainer if the inmate meets the ICE criteria. Ability to receive and record an ICE detainer created by ICE. Ability to send alert and notification to Records if an inmate has been identified as meeting the ICE criteria.	Y	
86.	Ability to send an alert to Pre-trial Services in an inmate on the program has been re-arrested.	Y	
87.	Ability to report on bookings by day, period of time, booking averages, etc.	Y	
88.	Ability to send and receive an electronic notification from the probation staff if the inmate is on Supervised Release.	Y	
89.	Ability to create a list of subjects who failed to self-surrender as required. Ability to create a failure to self-surrender letter and/or a "no-show" letter.	Y	

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90.	The system must provide a fingerprint card that is printable and available to view on screen. The fingerprint sheet should include inmate name, DOB, race, sex, SSN, CIN number, booking number, booking date/time, and all current charges to include arresting agency, location of arrest, arrest date/time, arrest type, court case number, arresting officer, arresting agency case number, inmate photo, and a specified area to collect ink thumb print.	Y	
Property			
91.	Queue that shows inmates whose property has not yet been collected.	Y	
92.	Ability to track inmate property with pictures, description and quantity.	Y	
93.	Ability to document cash collected from the inmate.	Y	
94.	Ability to assign property to a container and to label the container with a barcode to track the movement of property across facilities. Ability to report on chain of custody of a property container historically.	Y	
95.	Ability to product a Property Receipt with inmate's name, booking number, property list, arresting officer, booking officer, storage location, inmate number, DOB, booking date/time, age, race, sex, and money balance.	Y	
96.	Ability for inmate and officer to electronically sign Property Receipt and a Cash Receipt.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
97.	Ability to track county property issued to an inmate.	Y	
98.	Ability for inmate to electronically sign a receipt of issued property.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for

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			supplying the hardware to support this requirement.
99.	Ability to track property that inmate has been allowed to keep on person.	Y	
100.	Ability to view and report on non-consumable items purchased from the commissary, including Type, Quantity and Description of item.	M	If automation of the transfer of information from the County's current commissary solution is desired, this will require integration to the Commissary application being used by the County. Otherwise, manual transfer of information to Offender360 is supported.
101.	Ability for lobby staff to digitally request inmate property via visitor ID swipe and have the system subsequently generate either: (a) Property Release form or (b) Clothing Exchange form.	M	Offender360 has the ability to interface with various ID scanners. Custom development will be required to interface with the ID scanners to meet this requirement. The County will be responsible for supplying the hardware to support this requirement.
102.	Ability for Housing Officers to view a Property Inventory Sheet electronically on screen as well as print a paper copy.	Y	
103.	Ability to obtain an inmate's signature either electronically of the Property Inventory Form/Clothing Exchange form and associate to inmate property.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
104.	Ability to submit a property release form and route it to a queue.	Y	
105.	Ability to attach a property release form to an inmate's property inventory.	Y	
106.	Ability to track the return or an inmate's property to the inmate upon release.	Y	

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107.	Ability to print updates made to an inmate's property inventory and details of the length of time given for an inmate to pick up his/her excess property.	Y	
108.	Ability for inmate to electronically sign a Property Inventory Sheet.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
109.	Ability to view location of all property containers that belong to an inmate.	Y	
110.	Ability to track the removal of a property item with a reason or warrant.	Y	
111.	Ability to attach a medical note to a record that grants permission for a property item to be provided to an inmate.	Y	
112.	Ability to document an inmate's request for property release to a 3rd party, and the resulting approval or denial of the request and substantiating reason.	Y	
113.	Ability to generate reports, including: • Available storage report (e.g. container list by name and container #) • Pending disposal report • Blank common items list • List of all property currently in the possession of any inmate • Transportation court list that includes garment container	Y	
114.	Ability to document the disposal of inmate property not returned upon release. The information documented should include, but not but limited to: • Type, quantity and description of item • When & by whom it was disposed • Method of disposal	Y	
115.	Ability to document that an inmate was informed of a property's disposal. Documentation needs to include: date, time and who informed the inmate.	Y	

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116.	Ability to track any incidents of lost inmate property and what steps were taken to locate the property. Ability to report on that data including all inmate information, booking date, date of property receipt by MDCR, inmate transfer dates or dates when the inmate left custody, date of request for property and who requested it, date of search and search findings.	Y	
117.	The system must notify staff that property and/or clothing items have exceeded their shelf life in such cases as when an inmate has been sent to another agency and has not instructed someone to pick up his/her property.	Y	

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Classification		Meets	Comments
	Classification/Housing		
118.	Queue that shows inmates pending initial classification with elapsed time since inmate's arrival.	Y	
119.	Ability to customize classification workflow.	Y	
120.	Ability to interface with the JHS module to determine if there are special conditions that will affect the classification or reclassification of the Inmate.	Y	
121.	Ability to conduct custody (security) level assessment using a decision tree. The assessment should be an interactive user-configurable question/answer form.	Y	
122.	Ability for user to look at current charges, criminal history, cell history, gang affiliation, incidents, "keep separates", program participation, PREA and Mental Health information when answering assessment.	Y	
123.	Ability for system to automatically answer questions based on criminal history, incidents and any other known data.	Y	
124.	Ability to automatically trigger re-classification for an inmate at configurable time intervals	Y	
125.	Ability to automatically trigger re-classification for an inmate based on several factors that can be configurable. (i.e.: change in identity, criminal history, current charges, incidents, disciplinary actions, special conditions, court action, bail status, parole status or detainer status.)	Y	
126.	Ability to have different re-classification decision trees for aggravating and mitigating scenarios.	Y	
127.	Ability to override classification or re-classification results with approval process that tracks user and reason.	Y	

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128.	Ability to receive alerts when an inmate incident takes place with another "keep separates" inmate.	Y	
129.	Ability to produce any ad hoc report using classification data such as but not limited to: • Inmates that were initially classified within 48 hours of being booked. • Individuals that were reclassified, the date and the officer who reclassified them. • Statistics by facility of number of inmates per classification level. • Inmates not classified per their cell acceptance level. • Inmates left to be classified or reclassified. • Classification overrides performed.	Y	
130.	Ability for an inmate to request a cell change or appeal a classification.	Y	
131.	Ability to see a complete history of classifications and to view prior classifications' selection criteria even if questionnaire has since changed.	Y	
132.	Ability for Medical Health and Behavioral Health personnel to submit a classification review or housing request to Classification.	Y	
133.	Automatically assign an available cell once the inmate is classified or reclassified. (Cells are grouped per classification levels) taking into consideration the "Keep-Separate" factor.	Y	
134.	Ability to interface with MDC's ECM to scan, store and retrieve documents.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
135.	Ability to electronically sign and store custom documents or forms.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.

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136.	Ability to automate, store and retrieve the *Inmate Orientation Statement* form and attach it to that inmate's profile.	Y	
137.	Ability to automate, store and retrieve the *Inmate Orientation /Training Video Acknowledgement* and attach it to the inmate's profile.	Y	
138.	Ability to flag an inmate as "Special Handling" based on configurable criteria and to send an alert to the Deputy when criteria is met.	Y	
139.	Ability to route inmate after classification to multiple queues such as medical, housing or "Special Handling"	Y	

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Housing			
140.	Ability to accommodate different correctional facility layouts. Ability to configure and name facilities, housing sectors, location and bunks based on the physical layout and flag them as "usable" or "unusable". (This layout can be modified without the need for programming.) This is to include internal and external locations such as court and hospitals.	Y	
141.	Queue showing all inmates pending housing who are already classified.	Y	
142.	Prevent an inmate from being moved from classification to permanent housing if they have not been classified and medically cleared. Provide override for users with the access to do so.	Y	
143.	Ability to classify cells based on custody levels, medical, high risk, safety, ICE Detainees etc. A cell can have more than one classification. Ability to mark cell as offline, change custody level to accommodate emergency assignment.	Y	
144.	Cell recommendation and alerts based on custody level, keep separate flags, medical classification and suicide risk with ability for override.	Y	
145.	Identify an inmate as ADA based on the medical staff review for a specific period or for an indefinite period. The system must identify ADA-compliant housing options only within each facility when users are assigning housing for ADA dOffender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.nated inmates. Create an alert and send a notification to appropriate staff, if an ADA inmate is being housed in a non-ADA compliant cell/ bunk. The user should be able to override the alert and provide a reason for the override.	Y	
146.	Ability for deputies to easily conduct bunk movements as well as record the reason for	Y	

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	the bunk move such as, but not limited to: medical, inmate request, job update, prevent altercation and the date and time of the move. (This is different from classification housing assignments)		
147.	Ability to record the approval/denial of special housing requests.	Y	
148.	Keep track of bed occupancy, assignment and reservations. Ability to provide an overall view of the facility (number of beds available by custody level, etc)	Y	
149.	Identify "weekender" inmates for housing assignment after initial admission.	Y	
150.	Ability to maintain historical cell information. Ability to create cell activity report for a proposed range of dates.	Y	
151.	Ability to "overbook" a bed or move inmates to a temporary location during assignment.	Y	
152.	Ability to capture cell inventory of standard items and allow inmate to sign electronically.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
153.	Ability for the housing module to interface with the security module to view special management status of inmates, including start date and expected end date, for such Special Management areas including, but not limited to: • Administrative Segregation • Protective Custody • Suicide Watch • Disciplinary Detention • Juvenile Status	Y	
154.	The system should allow an officer to easily review basic information about an inmate including areas such as, but not limited to: Gang, Moniker, Universal Precautions, Mental, Level, Tran Code and Caution Codes.	Y	

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155.	The system must automatically release the bed once an inmate is released or transferred to another housing location.	Y	
156.	Ability to notify all appropriate areas (both sending and receiving) of all housing changes scheduled for a 24-hour period.	Y	
157.	Ability to produce a report of "Keep-Separate Inmates" in same cell location.	Y	
158.	Ability to create a report that identifies state prisoners held in MDCR and include their sentences, ranked by severity of charge, with associated years.	Y	

Case Management

Boot Camp

159.	Ability to automate forms, ledgers, applications, checklists and inspections forms for Boot Camp and associate any applicable forms to the cadet (electronic folder).	Y	
160.	Ability to interface with MDC's ECM for electronic document managing.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
161.	Ability to provide an interface with Court Services for Boot Camp to receive court orders electronically.	Y	
162.	Ability to provide an interface with CHS Clinic when the inmate has been examined and has cleared or been rejected for Boot Camp.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
163.	Ability to provide an interface with MDC's EAM for tracking items issued to and retrieved from the cadets as well as MDCR staff and provide scheduled or ad hoc reports on any inventory data. Inventory data will be kept for historical purposes.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
164.	Provide an interface with MDC's EAM with the use of a tablet for facility inspections.	M	This will require an integration component to interface with the external solution. This

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			integration is included in the scope of work provided.
165.	Provide an automated inspection process to inspect cadets at configurable intervals as well as provide reports of the results of the inspections.	Y	
166.	Ability to interface with the JMS Visitation module for contact type visits.	Y	
167.	Ability to interface with the MDCR Finance section for inmates in the Work Release program. For example: Boot Camp notifies the Finance section which inmates are accepted into the Work Release program.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
168.	Ability to provide an electronic workflow with queuing between Boot Camp and Court Services, the Clinic (CHS) and the judges.	Y	
169.	Ability to provide electronic signatures in the online application.	Y	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
170.	Ability to provide mobile devices with an electronic signature application that can be used in court to enter data. There are forms filled out in court.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
171.	Ability to provide scanners in court for forms that cannot be electronically entered in court, for example, the Placement Order which is signed by the judge. Workflow with queuing needed. This form is distributed to many areas including Court Services and the DOJ.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
172.	Ability to allow the entry of multiple "recycle" data for all phases of Boot Camp.	Y	

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173.	Ability to provide an automatic electronic (email) alert when an inmate turns 18 years or age.	Y	
174.	Ability to provide an automatic alert 60 days from the first day of Phase 1. Boot Camp recruits are not allowed phone calls in the first 60 days of Phase 1.	Y	
175.	Ability to interface with the MDCR Finance section for inmates in the Work Release program. For example: Boot Camp notifies the Finance section which inmates are accepted into the Work Release program.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
176.	Ability to automate outgoing inmate phone call log with the use of an electronic tablet. Staff from Boot Camp needs to witness the inmate making the phone call to prohibit any fraudulent phone calls.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
177.	Ability to provide a weekly report of the *"Work Release Unit Daily Phone Contact Log"* and the *"Work Release/After Care Unit Incoming Call Log"* by phases. The number of times the cadet is required to call in should be configurable by MDCR.	Y	
178.	Provide an electronic form for *"General Family Orientation"* form so it can be emailed.	Y	
179.	Ability to provide an automatic alert when an inmate fails the Unit Violation inspection 3 times.	Y	
180.	Ability to provide configurable data entry fields for MDCR for the Cadet/Inmate Orientation Form.	Y	
181.	Ability to interface with MDCR's Boot Camp Cadet Tracking Application which is a tool for tracking cadets through the three phases of Boot Camp.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
182.	Ability to provide a report of financial data.	Y	

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183.	Ability to provide a weekly report of platoon sign in and out roster.	Y	
184.	Ability to provide the use of keys such as but not limited to Jail Number, CIN, dates etc. when requesting online reports.	Y	
185.	Ability to provide a report of inmates who qualified and did not qualify for Boot Camp based on a series of questions. Inmates who do not qualify for regular Boot Camp can qualify for low impact Boot Camp.	Y	
186.	Ability to provide a daily report of cadets who have jobs.	Y	
187.	Ability to provide a report of who passed and who failed any of the Essential Skills Tests. Provide an automatic rescheduling of the test if the cadet fails and notify MDCR electronically of the event. The rescheduling parameters such as reschedule test in 2 days will be configurable by MDCR.	Y	
188.	Ability to provide weekly reports for cadet inspection results.	Y	
189.	Ability to provide a report of the Phase II Checklist.	Y	
Case Management			
190.	Ability to interface with CJS using web services to extract the Criminal History of an Inmate.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
191.	Ability to automate the Case Management process using extracted data from CJS and RAS.		
192.	Ability to create a questionnaire to determine the risk potential.	Y	
193.	Ability to manage all aspects of offender processing and Case Management.	Y	
194.	Ability to develop an automated Risk and Assessment tool to assist in the placement,	Y	

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	supervision, and case management of offenders in community and secure settings.		
195.	Ability to conduct assessment several times during the inmate's stay and keep previous assessments to gauge change.	Y	
196.	Ability to calculate recidivism automatically based on criminal history information.	Y	
197.	Ability to produce a transition plan based on given responses and data extracted from CJS/RAS.	Y	
198.	Ability to monitor the progress of an inmate and follow up about the transition plan with Community Based providers.	Y	
199.	Ability to notify Community Based Providers based on conditions of the inmate. Example: inmate flagged as homeless in the assessment will produce a system generated email to the homeless service provider in the community.	Y	
200.	Ability to determine who the high-risk offenders are and to give them the highest priority.	Y	
201.	Ability to identify individuals who are arrested at high rates.	Y	
202.	Ability to monitor attendance to the programs electronically.	Y	
203.	Ability to track progress milestones.	Y	
204.	Ability to produce ad hoc reports.	Y	
205.	Ability to produce a Case Plan package that includes the Inmate Assessment Report and the Program Attendance Log.	Y	
206.	Ability to share case plan and assessment results with outside entities in Word, PDF, etc	Y	
207.	Ability to provide a workflow with queuing capabilities.	Y	

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208.	Ability to interface with MDC's ECM to store and retrieve documents in the inmate's electronic folder.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
209.	Ability to track when cadet have had a field visit in phase 2 or 3 and scanned in the Sentinel/DNA system. A field visit may be at work, school, or at home.	Y	
210.	Ability to track when cadet(s) get re-arrested in phase 3.	Y	
211.	Ability to send an alert when a cadet completes Boot Camp.	Y	
212.	Ability view in a calendar when a cadet has a court date.	Y	
213.	Ability to alert programs if an inmate is re-arrested.	Y	

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Incidents			
214.	Ability to automate all manual forms.	Y	
215.	Ability to incorporate workflow with queuing capabilities.	Y	
216.	Role-based security for workflow steps.	Y	
217.	Ability to include timeframes and escalate work if steps are not addressed by the specific timeframe.	Y	
218.	Ability to comply with DSOP 10-003 to report and record major incidents.	Y	
219.	Incident search capabilities to include: report number, inmate name, date range, inmate number, booking number, location, incident type, shift, etc.	Y	
220.	Ability to associate one or more inmates and staff involved to an incident.	Y	
221.	Ability to capture multiple narratives of the incident from different officers.	Y	
222.	Ability to capture evidence, attach pictures, videos or documents.	Y	
223.	Ability to configure incident types.	Y	
224.	Ability to assign multiple types to an incident.	Y	
225.	Each type of incident or flag such as Response to Resistance, Major Incidents, Use of Force, Use of Narcan, Emergency Treatment Order (ETO), Staff Injury, PREA, Battery on inmate/ Battery on staff, Attempted battery, Inmate deaths, Inmate suicide attempt, Contraband, Inmate Suicides or incidents classified as Reportable Incidents, should lead to a different workflow, different review process, different questions, checklists, and forms that need to be filled out for each inmate involved.	Y	
226.	When incident is flagged as PREA, system should alert the user not to include victim information or details of the incident in the Narrative, instead the Narrative should be auto	Y	

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	filled with: *Pursuant to FS 794.024 "Unlawful to disclose identifying information" and FS 119 "Public Records" (see attachment).*		
227.	Ability to flag gang related incidents.	Y	
228.	Ability to route work to a role and assign based on resource availability.	Y	
229.	Ability to support role-based approvals.	Y	
230.	Ability to keep documents for at least six years.	Y	
231.	Ability to incorporate electronic signatures.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
232.	All original major incident reports shall be electronically forwarded to the SIAB for centralization and reviewing purposes within three business days of the incident.	Y	
233.	Major Incident reports shall be forwarded via the chain of command to the Director electronically via workflow with a receipt indicating the Incident Report Control Number.	Y	
234.	Ability to create dashboards and reports that enable management to view trends and patterns filtered by multiple criteria such as, but not limited to facilities, date range, types of incidents, locations, inmates, shift mental health level, and custody level, etc.	Y	
235.	Ability to send alerts when an incident involves several inmates "keep separates" to trigger an immediate action.	Y	
236.	Ability to send alerts to the SIAB based on a selection criteria and incident types.	Y	
237.	Ability to scan any manual form into MDC's ECM and retrieve for later viewing. Ability to scan and index all documentation (i.e., statements, pictures, logs, rosters, medical	M	This will require an integration component to interface with the external solution. This

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	addendum, checklists, summaries) to be included in the Incident Report Package.		integration is included in the scope of work provided.
238.	Ability to interface with OTPS's AIM application to send incident report data.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
239.	Ability to interface with MDC's IDW to send incident report data.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
240.	Ability to interface with CJS to retrieve charges against the inmate when a criminal incident occurs, and to add charges when an incident occurs that required the addition of charges.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
241.	Ability to create a log of Incidents by Facility, Location and Shift.	Y	
242.	Ability to generate alerts for outside agencies based on flags or incident type.	Y	
243.	Ability to produce a report of Major incidents, Staff Injuries or use of force.	Y	
244.	Ability to interface with JHS medical module to obtain information on the description of injuries and treatment if the injuries were a result of an incident. Ability to add a medical addendum as part of the Incident Package.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
245.	Ability to capture information about an incident such as: • Date and Time of Incident • Reporting officer • Location • Types of incident • Participating inmates • Staff involved • Witnesses • Role of each inmate • Major incident type • Cause • Charges filed (Yes/No)	Y	

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- Police case
- Action taken
- Action description
- Description of each inmate injuries
- Description of each staff injuries
- Description of each inmate medical treatment
- Description of each staff medical treatment
- Inmate mental health status
- Inmate pregnant (Yes/No)
- Inmate custody level at the time of the incident
- Juvenile (Yes/No)
- Use of force (Yes/No)
- Reason for response to resistance
- Type of response to resistance
- Type of restrain used
- Cause of attempted battery/battery
- Officers' narratives – one narrative per officer
- Incident pictures and videos
- Attached documents
- Contraband found
- Contraband description
- Contraband quantity
- Contraband disposition
- Weapons found
- Weapons description
- Transfer reasons
- Emergency Treatment Order issued (ETO)
- Audit question for Response to Resistance incidents
- Internal reviews, Internal reviews results
- External reviews, External reviews results
- Discipline required (Yes/No)
- Mental Health Level of the inmate(s) at the time of the incident
- Custody level of the inmate(s) at the time of the incident
- Facility maintenance issue (Yes/No)

Disciplinary

246.	Queue of incident report number that require a disciplinary process.	Y	
247.	An automated workflow process is needed to send documentation to the appropriate personnel when an outcome is completed, including electronic signatures, actions, and timelines.	Y	

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248.	Ability to produce the following reports: Daily Incident Reports by Facility, Incident Reports by Control Number, Incident Reports by Jail Number, Incident Reports by Facility, Incidents by Location, Incidents by Badge.	Y	
249.	Ability to produce the Inmate Disciplinary Hearing Log.	Y	
250.	Ability to capture and report on elapsed time in between every workflow step.	Y	
251.	Ability to digitally sign any report once it has been completed.	Y	
252.	Ability to upload additional evidence such as pictures, videos, documents to the disciplinary report.	Y	
253.	Ability to configure the disciplinary unique identification number to include the facility code, year, month and a consecutive number.	Y	
254.	Ability to configure a multi-level review/approval workflow.	Y	
255.	Ability to restrict access to save in each workflow step by role.	Y	
256.	Ability to add/remove user defined category violations and rule violations and to link rule violations with category violations.	Y	
257.	Ability to suspend a punishment after the appeal has been accepted.	Y	
258.	Ability to support business rules such as, but not limited to: • To be valid, an appeal must be submitted a configurable timeframe after inmate is notified. • For inmates with mental health status a clearance to proceed with the disciplinary hearing by medical staff is needed. • For disciplinary reports exceeding the maximum amount of days allowed the system must close the disciplinary report automatically and send notifications to facility supervisor and other groups.	Y	

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259.	Ability for committee members to sign the hearing findings digitally.	Y	
260.	Ability for an inmate to sign the charges and the disciplinary report digitally.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
261.	Ability to track sanctions with start date and estimated end date.	Y	
262.	The system must notify/alert areas such as, but not limited to: • Visitation- when sanction includes loss of visitation • Inmate phone services - when sanction includes loss of telephone • Commissary system- when sanction includes loss of commissary • Inmate mail services- when sanction includes loss of mail • Housing supervisor- when sanction includes loss of television • Gain time- when sanction includes loss of gain time • Facility supervisor- when sanction includes confinement	Y	
263.	Ability to send alerts when a disciplinary action is applied since it may trigger a reclassification.	Y	
264.	Ability for an inmate to view and sign the corrective consultation digitally.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
265.	Ability to raise an alert when the amount of corrective consultations exceeded a configurable limit in a specific period.	Y	
266.	Ability to capture information about corrective consultation such as, but not limited to: • Violation Category (IV)	Y	

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	• Rule violation • Description of the incident prompting the corrective consultation • Officer information • Corrective consultation printed (Yes/No) • Corrective consultation presented by • Corrective consultation presented date • Signed corrective consultation uploaded (Yes/No) • Inmate signed corrective consultation (Yes/No) • Witnessing employee		
267.	Ability to configure workflow for inmate to appeal hearing decision.	Y	
268.	Ability to print the appeal response and then upload the signed / scanned copy or to have inmate and officer sign electronically.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
269.	Ability to capture disciplinary information such as: • Original incident report number • Report date, Reporting officer • Date of hearing (must be calculated by the computer) • Violation Category (I, II, III), Rule violation • Statements of facts • Inmate notification printed (Yes/No) • Date charge was delivered • Employee delivering charges • Inmate waived 24 hours (Yes/No) • Inmate signed notification (Yes/No) • Witnessing employee • Administrative confinement (Yes/No) • Report of investigation summary • List of investigative documents • Investigating officer • Date report of investigation presented • Clearance to Proceed with hearing by medical staff for inmates with mental health status • Authorizing medical staff member • Serious mental health illness (Yes/No) • Medical recommendations	Y	

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	• Clearance to proceed with the disciplinary hearing by facility supervisor (Yes/No) • Reason for disapproval, Reason for extension • Extension needed (Yes/No) • Justification for disapproval or extension • List of disciplinary committee members • Actual date and time of hearing • Inmate waived right to be present on hearing • Inmate requested staff assistance (Yes/No) • Disciplinary report dismissed/expired (Yes/No) • Dismissal/Expiration reason • Inmate plead Guilty/Not guilty • Summary of inmate statement • Confidential information used and not provided to inmate (Yes/No) • Confidential information description • Inmate witnesses and Inmate witnesses' statement • Staff witnesses and Staff witnesses' statement • Findings of disciplinary hearing Guilty/Not guilty/Dismissal • Reason for dismissal • Specific evidence relied upon to support findings • Each hearing chairperson signature • Facility supervisor concur with hearing committee recommendations (Yes/No) • Explanation for not concurring with recommendations • Disciplinary report printed (Yes/No) • Date disciplinary report was presented to inmate • Disciplinary report presented by • Inmate signed disciplinary report (Yes/No)		
Grievances			
270.	Search capabilities by inmate name, date range, inmate number, booking number, location, grievance type and number, shift, mental health level and custody level, etc.	Y	

271.	Grievance unique identification number to include the facility code, year, month and a consecutive number.	Y	
272.	Ability for an inmate to enter grievance through a kiosk, tablet, mobile device or PC and receive a confirmation or grievance number. Ability for inmate to withdraw grievance.	Y	
273.	Ability for system to send inmate a notification including the new grievance number letting the inmate know that the grievance was received and the entity which has been given the duty of resolving the issue.	Y	
274.	System should not allow inmate to submit a grievance unless the form is complete and meets certain requirements.	Y	
275.	System should not allow the inmate to file a "class action" grievance.	Y	
276.	System should not allow inmate to file grievance for a specific issue while another grievance for that same issue is pending investigation, response and / or under appeal.	Y	
277.	Ability to auto calculate due date based on grievance type and received date.	Y	
278.	Ability to configure grievance types and subtypes.	Y	
279.	Ability to add multiple subtypes to a grievance.	Y	
280.	Ability to enforce rules such as selecting a grievance sub type for certain grievance types.	Y	
281.	Ability to capture inmate and one or more staff members involved.	Y	
282.	Ability to require custom questions based on grievance type.	Y	
283.	Ability to customize review/approval workflow based on grievance type.	Y	
284.	Ability to restrict access to each workflow step by role.	Y	
285.	Ability to electronically sign documents and attach to grievance.	M	Offender360 has the ability to interface with various signature pads to capture

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			electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
286.	Ability to route to a role and allow an individual to take ownership.	Y	
287.	Ability to alert outside agencies based on flags or type of grievance.	Y	
288.	Ability to loop during workflow if the approver does not agree with response.	Y	
289.	Ability to track time elapsed in between workflow steps and to report on it.	Y	
290.	Ability to create dashboards and reports that enable management to view trends and patterns filtered by criteria such as, but not limited to, facilities, date range, grievance types, subtypes, locations, inmates, shift, mental health level, custody level, staff involved, grievances referred to IA, etc.	Y	
291.	Ability to capture custom fields such as but not limited to: • Incident date, Grievance date, Date Received and Due date • Emergency Flag and Emergency type • Grievance Type and Subtypes • Staff misconduct, with force or without force • Name of staff identified in the staff complaint • Received By and Paper Grievance Uploaded by • Comments based on the inmate grievance • Rejection Description • Initial response, Initial Response Date, Initial Response Presented By • Disposition: Substantiated/Unsubstantiated/Pending • Inmate Notification Printed By, Inmate Notification Date • Inmate Notified By, Notification uploaded by • Reviewer concurs with response Yes/No, Reviewer response • Final Response Printed By, Final Response Date	Y	

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	• Final Response Presented by, Final Response Uploaded By • Inmate accept/reject response (Yes/No) • Inmate refused to sign (Yes/No) • Witnesses to inmate refusals to sign (date and witness signature) • Inmate Released or Inmate On Loan • Submitted to Internal Affairs (Yes/No), • Internal Affairs Tracking Notes • Medical Tracking Notes		
292.	Ability for an inmate to appeal a grievance without exceeding a configurable number of days allowed to appeal after the grievance response was served. Ability to override the appeal timeframe and provide a reason for overriding.	Y	
293.	Ability to configure workflow for an inmate to appeal grievance response.	Y	
294.	Ability to capture custom fields for appeals such as but not limited to: • Appeal date • Due date • Date forwarded • Received by • Assigned to • Appeal uploaded • Response to Appeal • Appeal Substantiated/Unsubstantiated • Appeal Response Printed • Appeal response uploaded by • Appeal response presented By • Appeal Response Presented Date	Y	
295.	Ability to print the grievance and appeal responses, present to inmate, capture the inmate signature electronically to document inmate's receipt.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.

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Inmate Tracking			
Scheduling			
296.	Ability to configure types of calendar events with priorities so that some types can supersede others in the event of a scheduling conflict.	Y	
297.	Ability to schedule any type of event for inmates, officers or facilities, such as, but not limited to: 1. Phone Call Scheduling: Ability to automate the phone call scheduling for inmates. This will ensure that all inmates are given a fair chance as making phone calls. 2. Recreation scheduling 3. Medical appointments 4. Program classes 5. Court Dates	Y	
298.	Ability to track inmate's phone usage capturing the MDCR officer that witnessed the inmate making the phone call.	Y	
299.	Ability to make events recurring with configurable intervals.	Y	
300.	Ability to receive alerts based on scheduled events and past due events.	Y	
301.	Ability to view scheduled events in a calendar and list format by inmate, facility, housing unit, officer, event type or all for different time ranges (day, week, month)	Y	
302.	Provide "Keep Separate" alerts during scheduling.	Y	
303.	The solution must integrate into the inmate's schedule the court dates, medical appointments, programs participation.	Y	
304.	Ability to electronically add-on inmates into a court schedule at court.	Y	
305.	Ability to enter county holidays, court furlough days, or other special days into the calendar. Staff who attempt to schedule events on these dates should be alerted of the conflict with the ability to override.	Y	

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306.	Ability to document if an inmate refuses to attend a scheduled event, capturing inmate's electronic signature.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
Movement			
307.	Ability to provide permanent proof of identity for each inmate which displays jail number, unique barcode inmate number, name, race, sex, DOB, mugshot, classification, etc.	Y	
308.	Ability to categorize the inmates they are tracking. For example: High risk. Categories must be configurable.	Y	
309.	Ability to know where an inmate is at any given moment by tracking movement to any location inside and outside the jail using barcode scanning of a wristband or ID with a mobile device or using RFID or biometric techniques.	M	Offender360 has the ability to interface with various barcode scanners. The County will be responsible for supplying the hardware to support this requirement.
310.	The system must automatically schedule a movement when a housing assignment is completed.	Y	
311.	Ability to scan inmate's barcode to initiate and complete a movement. The inmate should be in in-transit status while being moved.	M	Offender360 has the ability to interface with various barcode scanners. The County will be responsible for supplying the hardware to support this requirement.
312.	Capture amount of time in-transit for every move. Ability to define the acceptable length of time for an inmate to be 'in transit' and provide alerts when the acceptable time has been exceeded.	Y	
313.	Mass movement of several inmates to different areas inside or outside the jail or from one facility to another.	Y	
314.	Temporary release feature for inmates who are loaned out to other agencies with ability to	Y	

	keep their cell/bunk assignment. Ability to track expected return date.		
315.	Display "Keep Separate" alerts when scheduling or executing any movement.	Y	
316.	Movement should be integrated with scheduling module for programs, visits, appointments showing inmates name, destination and alerts but also allow for un-scheduled inmate movements.	Y	
317.	Ability to send an alert if an inmate is not back within a specified time limit based on the inmate's schedule.	Y	
318.	Ability to warn the user and send an email alert if an inmate is scanned into the wrong location during movement.	Y	
319.	The system must provide accurate reports to include parameters such as, but not limited to: • The inmate's name, date, time, location and arrival and departure from the reported location. • The movement of a single inmate during a defined period. • The movement of a selected set of inmates during a defined period. • The movement of all inmates to and/or from a single location during a defined period. • The movement of a selected set of inmates to and/or from a single location during a defined period.	Y	
320.	Ability to check an inmate into a court holding tank and to record the movement of an inmate among the holding tanks and the various courtrooms.	Y	
321.	Provide "Keep Separate" alerts for court holding tanks. Ability to generate list of "Keep Separates" for each court and view on a mobile device.	Y	
322.	Ability for bailiffs to notify the deputies in the holding tank when an inmate is ready to be moved to/from the courtroom.	Y	

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323.	Ability to create activity reports for facility management.	Y	
324.	The system must automatically generate a list of in-custody inmates by: courtroom, name, sex, classification that may be user customized to include visual differentiators such as color coding.	Y	
Head Count			
325.	Ability to configure facility locations as count location areas. The system must provide users the ability to add/modify the count location tables by facility.	Y	
326.	Body and Sight Count: quick count feature without need for identification.	Y	
327.	Provide a real-time system count of inmates at all locations.	Y	
328.	Formal head count feature requiring identification either via pictures or by scanning barcode on wristband or ID card, or biometrics. Capture date and time of the count and comments from the officer that performed the count.	Y	
329.	Ability to perform a count at predetermined or unspecified times.	Y	
330.	Ability to validate counts against predetermined location count and to review discrepancies and produce error messages that can be approved by a supervisor.	Y	
331.	Ability for the officer to enter a recount figure. The system must keep the reported count field locked after the first attempt, but have a corrected count field that can be changed if necessary.	Y	
332.	Ability to generate a "temporarily out of facility" count report such as court, hospital, work crew, etc.	Y	
333.	Ability to display the count verification process in the form of a matrix, showing number in housing units and number in out-count locations, and to tally with the census. Ability	Y	

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	for user to view scheduled events for the day, as well as admissions and releases for the last 24 hours leading up to the census.		
334.	Ability to produce nightly census reports of all inmates in corrections' custody to produce a Daily Population Report and to report on it historically by custody levels (pre-trial, sentenced, not yet assigned to housing) and by individual facilities or by all facilities.	Y	
335.	Ability to display the census verification process in the form of a matrix, showing number in housing units vs. number in out-count locations, and totals included in the census.	Y	
336.	Ability to provide the length of stay and average length of stay for inmates that are in the custody of MDCR.	Y	
337.	Ability to view the daily head count for ICE detainees, AB109 inmates, and other user-defined categories.	Y	
338.	Ability to automatically send alerts to appropriate individuals if an inmate has not been scanned for a user-defined period of time.	Y	
Shift Log			
339.	Ability for staff to log in at the beginning and end of a shift.	Y	
340.	Activity types should be user configurable.	Y	
341.	Ability to mark a location as a "log location" to signify that a log will be utilized at that location.	Y	
342.	Ability to configure an alert to appropriate personnel if safety checks are not completed within a specified period of time.	Y	
343.	Ability to log all activity that occurs in a unit, including safety/physical site checks. The information captured must include, but is not limited to: • Unit location • Staff member making the entry • Date and Time of the entry	Y	

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	• Date and Time of the event (ability to log an event that occurred in the past)		
344.	Ability to record inmate activities including, but not limited to: use of the shower, telephone and television, recreation time, and yard time.	Y	
345.	Ability to search and run reports by parameters such as, but not limited to: • Date and time • Staff name • Inmate name • Date range • Search terms (search through narratives)	Y	
346.	Ability to create a list of supply/equipment to support inventory tracking of items that are assigned to a housing location. Checklist must be user-configurable, unlimited and allow for barcode scanning of items.	M	Offender360 has the ability to interface with various barcode scanners. The County will be responsible for supplying the hardware to support this requirement.
347.	Ability to configure time limits that an item can be checked out. If an item has been checked out for longer than the allowed time, an electronic notification should be sent to identified staff.	Y	
348.	The system should provide a report displaying all items that are checked out and due for return to support the staff inventory tracking process.	Y	

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Services		
Chaplaincy (Volunteer Approval Process)		
349.	Automate the forms for all the facilities to eliminate dependency on paper.	Y	
350.	Ability to provide electronic signature capture and workflow capabilities for the volunteer application process.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
351.	Ability to input an application and upload documents. System would require end user to satisfy all aspects of application before system would accept application.	Y	
352.	System would generate a control # for each application when completed.	Y	
353.	System would send auto generated email alerting next entity to process application. That entity could reject application and state reason i.e. incomplete, invalid DL, etc.	Y	
354.	System will send a status update with either the rejection reason or receipt of valid application to volunteer.	Y	
355.	Ability to store, update and retrieve information pertaining to volunteers including photographs.	Y	
356.	Ability to differentiate between an application for a volunteer and that of a visitor on a tour (the latter is not forwarded to Internal Affairs Bureau).	Y	
357.	Ability to protect Social Security Numbers from being fully viewed after input.	Y	
358.	Ability to Forward application to Internal Affairs Bureau.	Y	
359.	Ability for Internal Affairs Bureau to forward Approve/Disapprove electronically.	Y	
360.	Ability to suspend a volunteer's access at any time.	Y	

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361.	Ability of informing MDCR staff 90/60/30 days before expiration of a volunteer credential.	Y	
362.	Ability to produce reports on pending volunteer applications, completed applications and rejected applications	Y	
363.	Ability to track and report on service and class attendance.	Y	
364.	Ability to develop ad hoc reports with any of the data captured by inmate or volunteer, facility, date range, etc.	Y	
365.	Ability to produce a weekly "Facility Services Attendance Report" indicating the total number of inmates participating in the different services offered for each day of the week.	Y	
366.	Ability to interface with FCIC/NCIC, DAVID and E-AGENT.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
Court Services			
367.	Provide online data entry, archival, retrieval and reporting of court order data and subpoena data.	Y	
368.	Provide a workflow with queuing to track court orders to and from different areas of the jail including Recipient Receipt notification to be sent to Court Services Bureau and response from the recipient to be sent to Court Services Bureau.	Y	
369.	Ability to provide a workflow with queuing to track subpoenas to and from MDCR employees including Recipient Receipt notification to be sent to Court Services Bureau.	Y	
370.	Ability to provide a workflow with queuing to transfer court orders to Boot Camp including Recipient Receipt notification to be sent to Court Services Bureau.	Y	

371.	Ability to interface with MDC's ECM.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
372.	Ability to interface with the MDC's EAM for any Court Services inventory needs including radios and uniforms. For example, MDCR needs to identify whatever occurred for that inmate while in custody including any exchange of inventory, like inmate uniform for street clothing when released in Court.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
373.	Ability create reports for any Court Services inventory needs.	Y	
374.	Ability to identify CMRP inmates that are released from the jail system at a court hearing that they are not physically attending.	Y	
375.	Ability to provide a mobile device that can be used in court to enter/update jail card information that can operate offline and then upload data when a wireless connection is not possible.	M	Offender360, powered by Dynamics, is a 100-percent web-based application accessible via web browser. To allow offline access would require use of the Dynamics 365 Outlook Client. The County will be responsible for supplying any mobile devices to be used to satisfy this requirement.
376.	Provide a report of headcounts, date and location of where an inmate was transported to real time.	Y	
377.	Ability to produce headcounts and lunch counts by date, current day, courtroom location, and verifying officer.	Y	
378.	Ability to provide a daily, weekly and monthly report of subpoena tracking information.	Y	
379.	Ability to produce reports by the type of court order or subpoena.	Y	
380.	Ability to provide a report of inmates that are scheduled to go to court.	Y	
381.	Ability to produce a headcount verification report of inmates that are in Court.	Y	

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382.	Ability to produce a daily log of subpoenas delivered to MDCR employees.	Y	
383.	Ability to provide bond information for each inmate at a charge level for release purpose.	Y	
384.	Ability to provide a list of court cases with dispositions for each inmate for release and classification purposes.	Y	
385.	Ability to provide statistical reports on inmates taken to court, on releases and Court Release Computation.	Y	
386.	Ability to provide a report displaying inmates that were released in court.	Y	
387.	Ability to automatically notify Food Services a headcount of how many court lunches are needed and special diets if any.	Y	
388.	Ability to track/identify/provide reports of inmates with an INS Holds/Detainer that have completed their sentence or are scheduled for release.	Y	
389.	Ability to track/identify and provide report of Forensic Health Inmate attending court	Y	
390.	Ability to track/identify and provide report of Forensic Health Inmates who have completed their sentenced and/or are scheduled for release.	Y	
391.	Ability to track/identify and provide report of different Classifications such as Forensic, Health, Felony, or Misdemeanor inmates attending court.	Y	
392.	Ability to provide report of all Inmates taken into custody at a particular facility.	Y	

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393.	Ability to track/identify and provide report of inmates assigned to Inpatient Facility Units requiring release from the Court Services Bureau.	Y	
Food Services			
394.	Ability to comply with the Departmental SOP.	Y	
395.	Meal delivery locations must be configurable by MDCR.	Y	
396.	Ability to interface with Inmate Tracking to identify cell location.	Y	
397.	Ability to interface Court Services data to automatically provide FSB with a headcount of how many court lunches are needed and special or faith based diets if any.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
398.	Ability for an inmate to request a faith based diet.	Y	
399.	Ability to provide a queue, workflow with review and approval process to handle faith based diet requests.	Y	
400.	Ability to automatically choose a special (i.e. medical) diet over a faith based diet for the inmate in the event the inmate was prescribed both types of meals.	Y	
401.	Ability to create labels that will be placed on special and faith based diet trays. The label should contain jail number, type of diet, facility/cell location and the date the meal is to be served.	Y	
402.	Ability to interface with MDC's ECM.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
403.	Ability to automate the meal count delivery form by facility based on information in the JMS.	Y	

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404.	Ability to provide a daily list of number of meals to be produced by type of meals per facility and cell location.	Y	
405.	Ability to automate the daily meal delivery recaps by facility indicating the number of meals that were served at breakfast, lunch and dinner by types of meals. These counts are to be reviewed and approved electronically by the Kitchen Supervisor and sent to FSA.	Y	
406.	Ability to produce a Meal Production Report by facility, date and shift.	Y	
407.	Ability to provide a list of meals delivered by Jail Number.	Y	
408.	Ability to automate the Replacement /Substitution Meal Count by facility and date. This form needs to be reviewed and electronically signed by the Kitchen Supervisor and sent to FSA.	Y	
409.	Ability to automate the sandwiches/short line/miscellaneous food items counts.	Y	
410.	Ability to automate and incorporate electronic signature for all forms.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
411.	Ability to retrieve any information related to meal counts by Facility/Shift/Cell location.	Y	
412.	Ability to track the exact time when the meals are delivered to an inmate and the type of meal provided.	Y	
413.	Ability to interface with MDC's EAM for inventory of food items and kitchen tools to provide information and reports.	Y	
414.	Ability to produce reports that will contain all the necessary information to be generated as requested.	Y	

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415.	Ability to automate the daily chemical reconciliation log by kitchen facility with configurable facility types. For example, the cleaning products depend on which facility they are being used in.	Y	
416.	Ability to automate the training logs with predefined training materials depending on the log type. Training will be in accordance with the established Post Order/SOP and proficiency should be demonstrated in each area. When training is completed, a copy of this log is given to the employee and another copy is forwarded to the FSB Administration office.	Y	
417.	Ability to automate the Inmate Kitchen Order Orientation and Training documentation.	Y	
418.	Ability to keep an automated tool control log of tools sign-in and sign-out by Facility and location.	Y	
419.	Ability to record daily equipment cleaning inspections by Facility and date. Ability to retrieve this information by Facility and Date.	Y	
420.	Ability to record the Daily Meal Compliance Inspection by Facility with electronic signature.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
421.	Ability to record Sanitation and Compliance weekly inspections by facility, and explanation and corrective action when finding things that are not in compliance.	Y	
Mail Services			
422.	Ability to track incoming and outgoing mail, capturing names and addresses found in incoming mail and type comments.	Y	

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423.	Ability to track mail delivery using inmate barcode scanning and capturing electronic signature.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
424.	Ability to digitize all incoming mail to be delivered electronically to inmates.	M	Digitization of mail would be performed outside of the Offender360 solution using scanners provided by the County. Once documents have been converted to an electronic format, the images can be uploaded as attachments to Offender360.
425.	Ability to scan outgoing mail and document address and details if an inmate is on the "mail cover list".	M	Digitization of mail would be performed outside of the Offender360 solution using scanners provided by the County. Once documents have been converted to an electronic format, the images can be uploaded as attachments to Offender360. Documentation of the address and details regarding the Mail Cover List can be met with Offender360 functionality.
426.	Ability to flag inmates that are on the "mail cover list" and to document the results of a search of incoming mail and details of outgoing mail for them.	Y	
427.	Ability to scan an inmate's mail and mail cover and forward a scanned copy, as well as an electronic message, to the requesting law enforcement agency.	M	Digitization of mail would be performed outside of the Offender360 solution using scanners provided by the County. Once documents have been converted to an electronic format, the images can be uploaded as attachments to Offender360.
428.	Ability to record the discovery of contraband in incoming or outgoing mail, notify appropriate	Y	

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	staff and document the return of non-criminal contraband.		
429.	Ability to notify appropriate staff if criminal contraband was discovered in the mail during the initiation of the DR process.	Y	
430.	Ability to send notifications to the appropriate personnel to start DR proceedings if criminal contraband is found in mail.	Y	
431.	The system must allow investigations staff to flag an inmate for an inbound or outgoing mail hold.	Y	
432.	Ability to record any checks that were received for a specific inmate by mail.	Y	
433.	Ability to document any outgoing mail search.	Y	
434.	Ability to keep a list of indigent ICE Detainees so that stamps can be provided to them. The exact amount to be deemed indigent needs to be configurable.	Y	
435.	Ability to track inmate mail restrictions which should come up as an alert when attempting to deliver mail to or from an inmate.	Y	
436.	The system must provide an "alert" function for special handling verifications on specific inmates when they send or receive mail.	Y	
437.	Ability to run reports showing mail sent and received by inmates, including the address of the sender for outgoing mail.	Y	
438.	Ability to record the names of inmates subscribing to defined periodicals.	Y	
Transportation Services			
439.	Ability to automate all transportation forms.	Y	
440.	Ability to provide a workflow with queuing capability.	Y	
441.	Ability to interact with Court Services to retrieve court orders for transportation.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.

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442.	Ability to interface with Jackson Health Systems to receive real time notification of inmates being scheduled for clinic appointments.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
443.	Ability to provide automation for last minute write-ins for trips to court.	Y	
444.	Ability to produce report of inmates that need to be transported to court, CHS clinics or Intra-State.	Y	
445.	Ability to interface with Inmate Tracking to provide a headcount of inmates transferred from one jail facility to another and provide daily reports upon request.	Y	
446.	Ability to send notifications to the property room custodian to have property ready for a trip.	Y	
447.	Ability to scan inmates into a vehicle number for a trip.	M	Offender360 has the ability to interface with various barcode scanners. The County will be responsible for supplying the hardware to support this requirement.
448.	When inmates are scanned, system should alert for any Keep-Separate being placed on the same vehicle.	M	Offender360 has the ability to interface with various barcode scanners. The County will be responsible for supplying the hardware to support this requirement.
449.	Provide Transportation Services with a mobile device for inmate tracking that displays the demographics, mental health level and classification of the inmate	Y	Offender360 can be accessed on mobile devices such as laptops, tablets and smartphones. It will be the responsibility of the County to provide any mobile devices to be used in conjunction with Offender360 to meet this and other requirements.
450.	Provide Transportation Services with a mobile device to capture reason for the trip and comments.	Y	Offender360 can be accessed on mobile devices such as laptops, tablets and smartphones. It will be the responsibility of the County to provide any mobile devices to be

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			used in conjunction with Offender360 to meet this and other requirements.
451.	Ability to capture the MDCR CO responsible for transporting and guarding the inmate as well as track a change in the CO guarding the inmate mid-trip.	Y	
452.	Ability to itemize trip expenses using a mobile device which can be used on the road and to automatically calculate totals for expenses incurred during the trip.	Y	Offender360 can be accessed on mobile devices such as laptops, tablets and smartphones. It will be the responsibility of the County to provide any mobile devices to be used in conjunction with Offender360 to meet this and other requirements.
453.	When Transportation Services marks the court order for transportation as completed, this system should automatically mark the court order as complete.	Y	
454.	Ability to produce a daily count of arrivals and departures from each facility and transportation point.	Y	
455.	Ability to provide Daily Trip Log reports by location type: clinic, intra-state, courthouse, etc.	Y	
456.	Ability to notify releasing jail that an inmate is no longer in MDCR's custody when the inmate is transferred to another county and the destination has been reached.	Y	
457.	Ability to produce Statistical Reports.	Y	

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Visitation		
458.	Visitation functions currently in Aramark, IPS and the Volunteer and Contractor Tracking applications will be included as part of the JMS solution:	Y	
459.	Ability to add, update, delete and display approved visitation lists.	Y	
460.	Automate the entry/update of the Visitors Log and incorporate Visitors Name, Time In, Business Address/Occupation, Purpose of visit, Name of prisoner or Contact person visiting, Pass No. and Time out, and License number or ID number. A new field from the "Key Sign Out Log", Key Locker Number should be included, if applicable.	Y	
461.	Ability to perform online searches by Drivers' License as well as other keys in NCIC/FCIC/CCH/DHSMV, etc. for Criminal History, Sex Offenders, and warrants as well as interfacing to MDC's CJS for local searches. If searching by DRL, the legal name should be added to the JMS as well as whatever name the visitor provides.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
462.	Ability to select an automatic background check for any visitor.	Y	
463.	Ability to perform inmate look-ups online by jail number or visitor's name or inmate's name.	Y	
464.	Ability to provide MDCR Internal Affairs with historical data for approved visitors. The inmate can change his list of approved visitors. Data should be viewable online.	Y	
465.	Ability to automate all current manual forms associated with visitation for all jail facilities.	Y	

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466.	Ability to convert data from Aramark, IPS and Volunteer and Contractor Tracking applications to load into the JMS.	Y	
467.	Automate the process for all types of visitors: family, friends, professional, volunteers, contractors etc. much like what they have in hospitals with a temporary pass, including a digital photo.	Y	
468.	Ability to create a Visitor's Pass for all visitor types which can be worn by the visitor and pre-populated by using the jail number of the inmate. The label will contain a digital photo of the visitor, Visitor's Name, Visiting Facility, Date/Time, Purpose of visit, ID number and key locker number if used.	Y	
469.	Ability to create a visitor's pass with a barcode that can be scanned out to capture the date/time the visitor/volunteer/contractor left the jail.	M	Offender360 has the ability to interface with various barcode scanners. The County will be responsible for supplying the hardware to support this requirement.
470.	Ability to capture and archive digital photos and demographics for each visitor including time in and time out.	Y	
471.	Ability to retrieve demographics from previous visits to be used for the current visit.	Y	
472.	Ability to capture data and produce a visitor label at multiple jail facilities and multiple entrances for that facility.	Y	
473.	Ability to automate the (Locker) Key Sign Out Log as well as interface this log with the visitor's data. Ex: The Visitor's Pass should contain the locker number of their belongings.	Y	
474.	Automate the inmate visitation request process at PTDC and Stockade.	Y	

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475.	Ability to capture additional information needed for Contractors/Volunteers for example: Tracking tools brought in and taken out of the jail.	Y	
476.	Ability to produce a visitation log report by facility/ date/date range.	Y	
477.	Ability to restrict dOffender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.nated inmates and/or visitors from authorized visits within a specific timeframe. Provide configurable timeframes.	Y	
478.	Ability to produce a visitation log report for an inmate using a date range.	Y	
479.	Ability to produce reports by visitor type, date/date range, visitor or inmate.	Y	
480.	Ability to produce reports by specific date ranges and jail number with visitor's detail (visitor's name, arrival time, departure time, etc.)	Y	
481.	Ability to provide totals of number of visitors per Facility and Shift, and the capability to drill down and get detailed data.	Y	
482.	Ability to keep all visitor/contractor/volunteer historical data.	Y	
483.	Ability to retrieve any historical visitation data online.	Y	
484.	Provide MDCR the ability to configure the number of visits and number of visitors allowed for the inmates.	Y	
485.	Ability to provide an interface to the JMS Incident Reporting data because certain disciplinary actions limit visits the inmate is allowed.	Y	

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486.	Ability to interface with inmate tracking for his location. Need to know where the inmate is to take him to the visitation area.	Y	

Release			
487.	Ability to view and/or print rosters (i.e. court roster, weekend roster etc.)	Y	
488.	Ability to view and/or print the list of inmates being housed for other agencies (for example, Florida Department of Corrections, US Marshals Service, US Immigration Customs Enforcement).	Y	
489.	Ability to add a hold expiration date. The system must automatically bring up an alert for the records staff one day prior to the hold expiration date. Ability to move an inmate to a pre-release status after the hold expiration.	Y	
490.	Configurable sentence calculation considering multiple release dates, concurrent, consecutive or coterminous sentences, statutory time/good time/work time, that is dynamically changing based on program completion, disciplinary action, and amended sentences. Ability to add notes and view history of changes made.	Y	
491.	Ability to apply a specific sentence type to a court case or multiple court cases. Sentence types should be user-configurable and allow for the entry of a sentencing algorithm to be associated with each sentence type. The system should allow for the addition of unlimited sentence types. Ability to apply a sentence for years, months, days or hours.	Y	
492.	The system must provide users with the ability to support court recommendations such as, but not limited to: Day for day allowed, Alternatives to Custody recommended, statutory time, etc.	Y	
493.	Ability to override the calculation and enter a manual date with the reason.	Y	

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494.	Ability for a bondsman or citizen to fill out and electronically sign custom forms at a kiosk to initiate the bond out of an eligible inmate.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.
495.	Release queue based on estimated release date, policy decisions or bond out request with indicator of release type, inmate status and location.	Y	
496.	Ability to provide housing officer list of inmates that are being released.	Y	
497.	Ability to perform different types of releases such as temporary or final.	Y	
498.	Ability to change status of inmate to pre-release and send notifications to the appropriate bureaus.	Y	
499.	Ability to capture reason for inmate not being released due to sickness or injury.	Y	
500.	Ability to record extradition of inmates to or from Miami-Dade County With chronological notes to identify the actions taken on these cases.	Y	
501.	Track date and time of release and user id of the person releasing.	Y	
502.	Configurable workflow to complete requirements that must be met prior to release such as, but not limited to: • Take fingerprints or use other biometric method for identification • Review Alerts such as Mental Health • Send hold alerts and track expiration date of such hold alerts • Collect DNA when required • Perform Wants (warrants) check • Check that all case/charges have releasable dispositions (Non-releasable dispositions must prevent the release of an inmate	Y	

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	and provide an overridable warning message prior to release)
	• Release property and money
	• Track return of issued property (including wristband or ID)
	• Victim notification completed automatically when jail card is released.
	• Determine if the inmate can be released prior to first appearance hearing:
	  ✓ Non-bondable charges
	  ✓ Out on Felony Bond
	  ✓ On probation
	  ✓ Hold for Magistrate, Immigration, Agency etc.
	  ✓ DV cases		

503.	Ability to follow a different workflow if inmate is being bonded out.	Y	
504.	Ability to capture release conditions at a charge level such as bond amount (totaled by case), alternate bond, program types, etc.	Y	
505.	Ability to validate bond/bondsman information via an interface with CJIS.	M	This will require an integration component to interface with the external solution. This integration is included in the scope of work provided.
506.	Ability to track an inmate electronically to determine the inmate's location at the time of release.	Y	
507.	Ability to follow a different workflow if inmate is being released to house arrest.	Y	
508.	Ability to print a release certificate.	Y	
509.	Ability to release an inmate that is in a hospital or another external location.	Y	
510.	Ability to capture electronic signatures for all required release documents.	M	Offender360 has the ability to interface with various signature pads to capture electronic signatures. The County will be responsible for supplying the hardware to support this requirement.

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511.	Ability to record the transfer of an inmate to another agency, including agency name, transferring officer name and badge number.	Y	
512.	Ability to record any Conditions of Release, such as, report to Parole, Probation, Program. Release condition should be user-configurable and may or may not allow the release of an inmate.	Y	
513.	Ability to run reports of any of the release data by inmate or facility.	Y	
514.	Ability to create and view a report that will provide the number of days an inmate has served in custody based on court case number, booking number, housing location, and other user-defined criteria.	Y	
515.	Ability to create a list of inmates that have completed a user-determined percentage of their sentence.	Y	
516.	Ability to create codes that may make an inmate eligible or ineligible for certain release programs. Codes should be user-configurable and allow for unlimited code types.	Y	
517.	Ability to cancel all scheduled activities when an inmate is released.	Y	

Interface Specifications

1.	**Vendor:** Kologik **Application:** Automated Arrest Form **Platform:** SQL Server 2008 and Oracle Database 11g Enterprise Edition Release 11.2.0.2.0 – 64 bit **Development Tool:** Java employing ESB (Enterprise Service Bus) **Keys:** Armband Number, Jail Number, IDS, CIN, Police Case Number, Court Case Number (CJIS Case Number)
2.	**Vendor:** OTPS **Application:** AIM(Administrative Investigations Management) **Platform:** Microsoft SQL Server 2008 **Development Tool:** Microsoft Visual Studio 2010 for the ASP.NET interaction. Business Intelligence Development Studio (BIDS), included with Microsoft SQL Server. **Keys:** Control Number, Jail Number, CIN number, IDS Number, Name, Date, Police case Number
3.	**Vendor:** ARAMARK **Application:** Commissary, Personal Property, Inmate Banking, Grievances and Visitation **Platform:** SQL Server 2008 **Development Tool:** Microsoft Visual Studio with .NET Framework, with custom components/controls (i.e. signature pad, grids, etc.) **Keys:** Jail Number, CIN (Permanent number), First Name, Middle Name, Last Name, SSN, DOB, Gender, Race, Address, Book Stamp, Release Stamp, Building, POD, Cell Number
4.	**Vendor:** ITD **Application:** QMS (Queue Management System) **Platform:** Microsoft SQL Server 2014 **Development Tool:** Microsoft Visual Studio 2017 for the ASP.NET 4.6 Cognos Analytics 11 **Keys:** Armband Number, Jail Number, User ID, Municipality/Badge number of arresting officer, Station Id.
5.	**Vendor:** ITD **Application:** PTS (PreTrial Services) **Platform:** Microsoft SQL Server 2014 **Development Tool:** Microsoft Visual Studio 2017 for the ASP.NET 4.7.1 Cognos Analytics 11 **Keys:** Jail Number, CIN Number, Appointment Date, Date/Calendar Type/Shift
6.	**Vendor:** ITD **Application:** PTD (Pre-Trial Diversion) **Platform:** Microsoft SQL Server 2014 **Development Tool:** Microsoft Visual Studio 2017 for the ASP.NET 4.7.1 Cognos Analytics 11 **Keys:** Jail Number, CIN Number, Appointment Date, Date/Calendar
7.	**Vendor:** ITD **Application:** CJS (Criminal Justice System) **Platform:** CA-IDMS mainframe based DBMS running under MVS. IDMS Release 18.0. **Development Tool:** ADSO, IDD, IDMS COBOL **Keys:** Jail Number, CIN Number, Case Number, Name, IDS Number

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8.	Vendor: ITD Application: IPS (Inmate Profile System) Platform: CA-IDMS mainframe based DBMS running under MVS. IDMS Release 18.0. Development Tool: ADSO, IDD, IDMS COBOL Keys: Jail Number, CIN Number, Name, Incident
9.	Vendor: ITD Application: IDW (Inmate Data Warehouse) Platform: Oracle Enterprise Edition Release 11.2.0.3 Development Tool: Cognos Analytics 11 Keys: Jail Number, CIN Number, Case Number, Name, IDS Number, Incident Control Number.
10.	Vendor: OPEN TEXT Application: ECM (Enterprise Content Management) Platform: Windows, Linux, Oracle Development Tool: Open Content, Documentum, Kofax capture, cognos Keys: Jail Number, CIN Number, Case Number, Name, IDS Number, Incident Control Number.
11.	Vendor: Application: EAM (Enterprise Asset Management) Platform: (information needed) Development Tool: Keys:
12.	Vendor: GTL Application: Communication Solutions Platform: Development Tool: Keys: Jail Number, CIN Number.
13.	Vendor: CHS Application: MASS Medical Appointment Scheduler System Platform: (information needed) Development Tool: Keys:
14.	Vendor: CERNER Application: Electronic Medical Records Platform: (information needed) Development Tool: Keys: Jail Number, CIN Number
15.	Vendor: Morphotrak Application: AFIS (Automated Fingerprint Identification System) Platform: MorphoTrak Printrak Bis 9.5. Development Tool: Keys: Jail Number, CIN Number

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16.	Vendor:	DataWorks
	Application:	Mugshot
	Platform:	Microsoft SQL Server 2014 - 12.0.2000.8 (X64)
	Development Tool:	Microsoft .Net Development platform
	Keys:	Jail Number, Mugshot ID, CIN, SID, FBI #, OBTS, SSN

17.	Vendor:	MicroMain
	Application:	Facilligence
		(preventive maintenance, inspections, track work orders and generate reports)
	Platform:	Microsoft SQL Server 2008
	Software/Development Tool: Computer-Aided Facility Management System		
	Keys: Facility, Service Ticket or Work Orders, Contact Name, email address, phone number		

18.	Vendor:	Sapphire Health
	Application:	Inmate Pharmacy
	Platform:	(information needed)
	Development Tool:	
	Keys – Jail Number, CIN number (ftp file is sent to Sapphire Health with information from CJS) A record is transmitted when one of the following transactions are executed:		
		a. Jail Number Assignment.
		b. Booking Entry.
		c. Booking Modify.
		d. Jail Cell Changes.
		e. Jail Release.

19.	Vendor:	TimeKeeping Systems Incorporated
	Application:	Guard Tour Systems
	Platform:	(information needed)
	Development Tool:	
	Keys:	

20.	Vendor:	ITD
	Application:	GIS
	Platform:	Windows OS, Microsoft SQL Server 2012, ArcGIS Desktop, ArcGIS Online, ArcGIS Server, ArcGIS Enterprise (Portal)
	Development Tool:	ESRI APIs and SDKs, REST services and mapping tools, MS Visual Studio .net
	Keys:	Address, X/Y Coordinates

21.	Vendor:	Sentinel Offender Services
	Application:	Omnilink
		(Monitored Release)
	Platform:	(information needed)
	Development Tool:	
	Keys:	

22.	Vendor:	Fleetmatics GPS
	Application:	Fleet Tracking Intelligence
	Platform:	(information needed)
	Development Tool:	
	Keys:	

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23.	Vendor: Application: Platform: Development Tool: Keys:	Kronos Telestaff (information needed)
24.	Vendor: Application: Platform: Development Tool: Keys:	Black Creek Security Systems Watch Tour System (information needed)
25.	Vendor: Application: Platform: Development Tool: Keys:	Black Creek Security Systems Integrated Touchscreen Security Control Systems (information needed)
26.	Vendor: Application: Platform: Development Tool: Keys:	Black Creek Security Systems Shift Logs (information needed)
27.	Vendor: Application: Platform: Development Tool: Keys:	Target Solutions Training Management System (information needed)
28.	Vendor: Application: Platform: Development Tool: Keys:	N/A will be provided later. Video Visitation (information needed)
29.	Vendor: Application: Platform: Development Tool: Keys:	ITD Traffic Information System (TIS) IDMS Cobol, JCL, IDMS, ADSO, SAS Jail Number, Traffic Case Number
30.	Vendor: Application: Platform: Development Tool: Keys:	Orion Communications, Inc e-Notify Electronic Subpoena System (CourtNotify) SQL Server 2012 (64-bit) .Net, Cold Fusion, MS SQL System generated keys
31.	Vendor: Application: Platform: Development Tool: Keys:	SOTER SOTER RS Body Scanner (information needed) WEB SERVICE CIN, Jail Number

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32.	Vendor:	Dataworks
	Application:	Rapid (RID) Identification
	Platform:	
	Development Tool:	WEBSERVICE
	Keys:	Person ID
33.	Vendor:	ITD
	Application:	RAS (Risk Assessment System)
	Platform:	Microsoft SQL Server 2014
	Development Tool:	VS 2017, VB .Net, ASP .Net 4.5, DevExpress
	Keys:	Jail Number, CIN Number
34.	Vendor:	PeopleSoft, Inc
	Application:	Human Resource Management System
	Platform:	
	Development Tool:	PeopleTools technology, PeopleCode
	Keys:	Employee ID
35.	Vendor:	Florida Department of Law Enforcement
	Application:	TBA
	Platform:	
	Development Tool:	
	Keys:	CIN, Jail Number, SID
36.	Vendor:	Citizens Information Services
	Application:	TBA
	Platform:	
	Development Tool:	
	Keys:	CIN, Jail Number, SID, Case, Charge
37.	Vendor:	JMH Pharmacy (JMH)
	Application:	TBA
	Platform:	
	Development Tool:	
	Keys:	CIN, Jail Number
38.	Vendor:	Immigration and Naturalization Services
	Application:	TBA
	Platform:	
	Development Tool:	
	Keys:	CIN, Jail Number, Charges
39.	Vendor:	Miami Dade Police Department
	Application:	TBA
	Platform:	
	Development Tool:	
	Keys:	CIN, Jail Number, Case, Charge, Social Security #
40.	Vendor:	Miami Dade Transit Authority
	Application:	TBA
	Platform:	
	Development Tool:	
	Keys:	CIN, Social Security #, Case, Charge

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41.	Vendor:	Sustainability, Planning, Economic and Enhancement (SPEE)
	Application:	TBA
	Platform:	
	Development Tool:	
	Keys:	CIN, Social Security #, Case, Charge

42.	Vendor:	Medical Examiners Department (ME)
	Application:	TBA
	Platform:	
	Development Tool:	
	Keys:	CIN, Jail Number, Case, Charge

43.	Vendor:	Public Defender's Office
	Application:	TBA
	Platform:	
	Development Tool:	
	Keys:	CIN, Social Security #, Jail Number, Case, Charge

44.	Vendor:	MDC Public Housing and Community Development (PHCD)
	Application:	TBA
	Platform:	
	Development Tool:	
	Keys:	CIN, Case, Charge

45.	Vendor:	State Attorney's Office
	Application:	TBA
	Platform:	
	Development Tool:	
	Keys:	CIN, Social Security #, Jail Number, Case, Charge

46.	Vendor:	Clerk of the Courts
	Application:	TBA
	Platform:	
	Development Tool:	
	Keys:	CIN, Social Security #, Jail Number, Case, Charge

47.	Vendor:	Social Security Administration (SSA)
	Application:	TBA
	Platform:	
	Development Tool:	
	Keys:	CIN, Social Security #, Jail Number, Case, Charge

48.	Vendor:	Appriss, Incorporated
	Application:	Victim Access Notification System (VAN)
	Platform:	
	Development Tool:	
	Keys:	CIN, Jail #, Case, Charge, Social Security #

49.	Vendor:	Channel 10 WPLG
	Application:	TBA
	Platform:	
	Development Tool:	
	Keys:	CIN, Jail #, Case, Charge

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50.	Vendor:	Alleghemny Casualty Company
	Application:	TBA
	Platform:	
	Development Tool:	
	Keys:	CIN, Jail Number, Case, Charge

Miami-Dade County

Information Technology Department

Summarized Currently Implemented Technology

Distributed Operating Systems	➤ Windows 2008 Enterprise Edition or greater ➤ AIX 6.1 or Higher ➤ Ret Hat Linux 6 Or Greater ➤ VMware ➤ OSX
Mainframe OS and OLTP	➤ Z/OS 1.13- upgrading to 2.20 in July 2016 ➤ Z/VM Release 6.3 ➤ Z/Linux Red Hat 6.5 or greater ➤ CICS V5.1.0
Database	➤ Oracle Enterprise Edition Release 11.2.0.3 RAC Certified Systems (Enterprise Solution) ➤ AIX Oracle Non-RAC 11.2.0.2 ➤ MS SQL 2012 and higher Enterprise 64 bit ➤ Oracle MySQL for WordPress and PHP solutions ➤ Oracle Exadata
Hardware	➤ IBM Z Series mainframe (2 IBM 2098-E10/P03) – 7 LPARS – 2 VM partitions virtualizing Z/Linus Servers ➤ HP model servers with Integrated Lights Out (ILO) ➤ HP blade server with VIO option ➤ HP blade servers with CITRIX XenServer for XenApp virtualization ➤ HP blade servers with CITRIX Xen Server for XenDesktop virtualization Wintel servers with VMWare virtualization software ➤ HP ProLiant dual core servers ➤ IBM pSeries servers (model 9119-FHB known as a p795) and IVR 9131-52A known as p520Workstations - preferred manufacturer (Dell) ➤ Thin Client Workstations – WYSE C10LE ➤ Mobile Devices – Blackberries, iPhone, iPad, Android
Network	➤ Fiber channel (BROCADE Fiber switches – Fe1, Fe2, Fe4, Fe40) ➤ TCPIP Communications Protocol ➤ Network Switches ➤ Telephone Switches ➤ Telephone Equipment ➤ DSL ➤ FiCon ➤ SolarWinds ➤ EdgeSight monitoring ➤ Remote locations connected to central County location with varying speeds from ADSL 256kbps to 1gbps for core sites ➤ Microsoft DNS ➤ Citrix SSL VPN ➤ Citrix Access Gateway

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Storage	- Mainframe Storage – IBM DS8870 - Tier 1 SAN storage – IBM DS 8100, DS8300 - Tier 2 SAN Storage – HP HSV SANS with Fiber Channel - Tier 3 SAN Storage – HP HSV SANS with FATA high density low performance disk - Mainframe Tape Storage – SUN/STK SL8500 – 9940B and T10000D Tape Drives - Tier 1 Tape Storage – SUN/STK SL8500 – 9940B Tape Drives - Tier 2 Tape Storage – SUN/STK SL500 – LT02, LT04
Storage Management	- Veritas NetBackup 6.0 for all distributed systems backups - Veritas Cluster Series - Veritas Global Clusters - Veritas Global Replicate - Veritas Volume Manager - IBM PowerHA SystemMirror for AIX V7 or greater - IBM Global Parallel Filesystem GPFS V3.5 or Greater - IBM-HSM for mainframe backup and recovery - Innovation FDR for mainframe backup and recovery - CA/Disk for mainframe backup and recovery
Security & Identity Management	- RACF (mainframe security) - Trend Anti-Virus for servers - Rational App Scan - Active Directory - IBM Security Access Manager
Web Platform & Social Media	- Socrata Open Data - Opentext Teamsite & Livesite - Oracle Eloqua
Applications Desktop & Enterprise	- Modern browser versions current & current-1 for IE, Chrome, and Firefox - Office 365 Pro Plus - Citrix (Thin Client Access)
Enterprise Applications	- PeopleSoft ERP using WebLogic and Tuxedo - ESRI software products for GIS (ArcGIS for Server, ArcGIS for Desktop, ArcGIS Online, Esri Maps for Office and Esri Maps for IBM Cognos) - Infor Asset Management - Microsoft Exchange 2010 - Documentum Electronic Document Management System - EnergyCAP Utility Billing - AssetWorks Fleet Maintenance
Middleware	- IBM MQ Message Broker and Workflow - WebSphere Application Server 6.1 - IIS 7.5 - Microsoft SharePoint Online (Office 365) - WebSphere Portal Server - Shadow z/Services for CICS
Systems and Asset Management	- HP Insight Manager/SIM (for HP hardware management) - HP Continuous Access Replicator - MS SCOM, MS SCCM - Enterprise Network & System Management

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	- IBM Tivoli Monitoring - IBM Tivoli Network Manager - IBM Tivoli Netcool Omnibus - IBM Tivoli Composite Application Manager for Transactions - IBM Tivoli Composite Application Manager for SOA - IBM Tivoli Composite Application Manager for WAS - Tivoli Application Dependency Discovery Manager - IBM Tivoli Change and Configuration Management Database (Maximo) - Scheduling Software Tivoli Workload Scheduler (OPC) – all platforms
Data and Information Management	- SQL Reporting Services - IBM Content Manager OnDemand Online Reporting - CA/Dispatch Online Report bundling/printing/viewing - IBM Cognos BI 10.x on Z/Linux for Business Analytics - MetaManager - Informatica

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Distributed Application Development Stack (versions where not specified are current & current-2)	
• **Integrated Development Environments (IDEs)**	➢ Rational Application Developer ➢ Visual Studio ➢ IntelliJ IDEA ➢ Eclipse ➢ Visual Studio Code
• **Backend: Frameworks and programming languages**	➢ .Net framework 1.1, 2.0, 3.0, 3.5, 4.7 ➢ ASP.NET ➢ Java Enterprise Edition ➢ Spring ➢ C# ➢ Visual Basic ➢ Java ➢ Python ➢ PHP5
• **Frontend/Mobile: Frameworks and programming languages**	➢ Angular ➢ Ionic ➢ Typescript ➢ Javascript ➢ Objective-C ➢ HTML5/CSS3 ➢ DevEXpress
• **UI Libraries**	➢ Bootstrap ➢ Materialize
• **Cloud services**	➢ Azure ➢ BlueMIx ➢ AWS
• **Project Management/ Code repositories / Version control**	➢ Team Foundation Server ➢ Visual Studio Team Services (VSTS) ➢ Github ➢ Pivotal Tracker
• **Other (build tools, test tools, support tools, picture/image libraries, etc.)**	➢ Jenkins ➢ Node.js ➢ Adobe PhoneGap ➢ Selenium ➢ New Relic ➢ Proto.io ➢ BrowserStack ➢ Apiary.io ➢ Adobe Creative Suite ➢ iStock Photos

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Miami-Dade County

Information Technology Department

Technology Model – Database Systems

Background:

ITD provides Database services for applications on five distinct DBMS platforms, of which only 2 are approved for new system development or implementation of new vendor packages.

- The CA-IDMS mainframe based DBMS running under MVS is available only for maintenance and minor enhancements of existing legacy applications.
- The IBM DB2 mainframe based system is a turnkey database used exclusively for On-Demand report management on the mainframe and further development is not allowed.
- The IBM UDB distributed database on the AIX platform is used exclusively as a turnkey DBMS in direct support of specific IBM products that do not support our standard new systems RDBMS platforms. No development is allowed on this RDBMS platform.
- For new system development or implementation of vendor packages the two DBMS platforms are MSSQL and Oracle. An architectural review would be needed to determine the best DBMS platform for any given application. Factors used to determine the best DBMS platform include, but are not limited to, number of users, data type, total database size, transaction counts, DR, COOP, HA and multi-site co-processing requirements, integration(s) with other systems, internet vs. intranet usage, mainframe legacy interface, and reusability of existing enterprise components.
  - The MSSQL DBMS runs on the Windows 64 bit platform.
  - The Oracle RAC RDBMS system on the Red Hat Linux; non-RAC Oracle DBMS runs on AIX platform. Application databases that are CPU and/or I/O intensive are best suited for the AIX Oracle platform.
  - Oracle Data Warehouse runs in a dedicated Exadata environment.

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ITD Infrastructure

Current Technology Model

Database Systems

Current Release Levels by Product:

IDMS   IDMS Release 18.0 running moving to 19.0 on IBM ZOS release 1.11 moving
to 1.13

DB2   DB2 Release 10 running on IBM ZOS release 1.11 moving to 1.13

UDB   UDB Release 9 to 10 running on AIX release 5.3 moving to 6.0

MSSQL   Enterprise 64 bit running on Windows 64 bit HP Servers

Oracle   Oracle Enterprise Edition Release 11.2.0.3 RAC Certified Systems running
on Linux Red Hat release AS 6 or higher on HP servers or AIX release 6.1
Oracle Edition Release 11.2.0.4– Partitioning is not available.

Current Infrastructure Configuration:

For purposes of this document the IDMS DB2 and UDB infrastructure configurations will not be described since new development or new systems installations are not authorized on these platforms.

MSSQL

The current County-wide shared platform consists of:

- The Production and Test environments consist of clustered servers each consisting of 2 HP servers with 2 multi-core processors running Windows 64 bit and MSSQL 64 bit.
- Planned implementation of a mini-warehouse cluster consisting of 2 HP servers with 2 dual core processors running Windows 32 bit and MSSQL 32 bit. This platform will also support legacy link services between MSSQL to Oracle. Due to the inherent stability issues of this type of link service, current legacy systems requiring this service are located in this infrastructure with lower than 95% availability expectations.
- Planned implementation of a small Disaster Recovery Stand-by cluster to be located at the ICFB consisting of 2 HP servers with multi-core processors running Windows 64 bit and MSSQL 64 bit.

Current Infrastructure Configuration (cont.):

Oracle

The current County-wide shared platform consists of:

- Multiple Production Two-Node Oracle RACs consisting of multiple HP 2 dual core servers running Red Hat Linux for DBMS systems that fully conform to County standards of operation.
- One Test Two-Node Oracle RAC consisting of multiple HP 2 dual core servers running Red Hat Linux.
- One planned Production Standby and Co-processing Multi-Node RAC consisting of multiple HP 2 dual core servers running Red Hat Linux located at ICFB for DBMS systems that require either standby Disaster Recovery operations or require full 24x7 co-processing systems.
- Two Production and Two Test AIX LPARs with mutual failover for DBMS systems that fully conform to County standards of operation.

Within the County-wide Oracle platform customers may select service levels as follows:

- Standard availability 7 a.m. to 7 p.m. Monday to Friday – Non Mirrored Storage
- Standard availability 7 a.m. to 7 p.m. Monday to Friday – Mirrored Storage
- 24 x 7 availability - Non Mirrored Storage
- 24 x 7 availability – Mirrored Storage
- 24 x 7 availability – Mirrored Storage – with offsite standby databases
- 24 x 7 availability – Mirrored Storage – with two site co-processing databases

The County also maintains application specific infrastructures in the AIX and SUN Solaris environment for specialized use systems such as GIS, EDMS, ERP and the like.

ITD Infrastructure

Current Technology Model

Database Systems

Restrictions of Use:

The following general restrictions of use apply to all platforms.

- Access to Production is locked down for access by pre-programmed application sets only.
- Application systems or users are not authorized the use of system administrator or database owner privileges in the production or test environments. Database or Schema Owner privileges are allowed in the test environments when requested.
- Users connecting to the database through the applications must do so with a unique userid known to the DBMS system. The application must encrypt the password in such a way that the particular user id cannot be used for logon through some other third party tool using an ODBC connection such as Toad or MS Access.
- Applications requiring data auditing must include auditing within the application.
- Databases or portions thereof may not be transported offsite or copied to test systems without the expressed authorization of the ITD Security Administrator.
- The database infrastructure is dedicated exclusively to managing requests for data contained in the database. Application program sets are not authorized execution in DBMS specific infrastructure. Limited availability of an application specific FTP area will be considered when no other option is available.
- All systems are subject to review and possible denial of service of high resource using SQL statements that impact other users or applications. The database support staff is available to assist application developers in pinpointing problem areas and suggesting possible improvements or design changes to alleviate these high resource SQL queries.
- Any application whether vendor supplied or developed by County staff must provide certification of use on new vendor releases or patches no more than 90 days after the DBMS provider announced General Availability Date. Any DBMS vendor security patch must be immediately certified for use by the application and will be applied as soon as is feasible upon DBMS vendor release.
- The County will not provide support to any database that is not on the current supported release level of the DBMS vendor.
- Storage for databases are provided exclusively through SANs (Storage Array Systems) provided by both HP and IBM devices.
- Images and text documents are not authorized for storage in a database.
- Changes to Production must follow currently published ITD Change Management procedures.
- For the convenience of our customers and for planning purposes a service lead time table is provided for the typical requests for service at http://database
- See Database Security Policies for further usage restrictions.

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ITD Infrastructure

Current Technology Model

Database Systems

Restrictions of Use (cont.):

MSSQL

- Previously known as DTS processing now under the name of SSIS (SQL Server Integrated Services) is not a clustered application. Therefore availability of this service is not guaranteed.
- Mirrored storage is not provided in the MSSQL infrastructure.
- Applications requiring data encryption must include encryption modules within the application.
- Link services between SQL to Oracle are not provided – (however Oracle to SQL link services are provided).
- SQL Report services are not supported as an operational component within the County-wide SQL database infrastructure.

Oracle

- All Systems targeted for the RAC must be RAC Compliant at the current release level supported by the County infrastructure.
- Only Oracle features available from the Oracle Enterprise Edition are available for use. The Oracle Key Features Summary (below) outlines those features that are currently supported.
- Standby and co-processing databases are limited to like infrastructures for the master and standby systems or the co-processing infrastructure.

Oracle Key Feature Summary	Enterprise Edition
Windows	Not Supported
Linux	Supported
Unix AIX	Supported
64 Bit Support	Supported
Total Recall	$Option

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Active Data Guard	$Option
Fail Safe	Supported
Flashback Query	Not supported
Flashback Table, Database and Transaction Query	Not supported
Oracle Secure Backup	Not supported
Server Managed Backup and Recovery	Supported
Real Application Clusters	Supported
Integrated Clusterware	Not supported
Automatic Workload Management	Not supported
Java, PL/SQL Native Compilation	Supported
Oracle Database Vault	$Option
Oracle Audit Vault	Not supported
Oracle Advanced Security	$Option
Oracle Label Security	$Option
Secure Application Roles	Supported
Virtual Private Database	Supported
Fine-Grained Auditing	Supported
Proxy Authentication	Supported
Data Encryption Toolkit	Supported
Oracle SQL Developer	Supported
Application Express	Not supported
Java Support	Supported
Comprehensive XML Support	Not supported
PL/SQL and Java Server Pages	Supported
Comprehensive Microsoft .Net Support, OLE DB, ODBC	Supported
Real Application Testing	$Option
Enterprise Manager	Supported
Automatic Memory Management	Supported

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Automatic Storage Management	Supported
Automatic Undo Management	Supported
Advanced Compression	$Option
OLAP	$Option
Partitioning	$Option
Data Mining	$Option
Transportable Tablespaces, Including Cross-Platform	Not supported
Star Query Optimization	Supported
Information Lifecycle Management	Not supported
Summary Management - Materialized View Query Rewrite	Not supported
Oracle Warehouse Builder	$Option
Oracle Streams	Supported
Advanced Queuing	Supported
Workflow	Not supported
Distributed Queries/Transactions	Supported
XML DB	Not Supported
Multimedia	Not supported
Text	Not supported
Locator	Not supported
Spatial	$Option
Secure Enterprise Search	Not supported
Oracle Content Database	$Option

* Supported = Currently supported by the County

* Not Supported = Currently not supported by the County - Additional Funding may be required for Support Staff.

* $Option = Currently not supported by the
County - Additional Funding for Licenses
and Support Staff Required

Miami-Dade County

Information Technology Department

Technology Model

Geographic Information System (GIS)

Background:

Miami-Dade County has a mature Enterprise GIS utilized by County departments, residents and external agencies. The county's GIS utilizes ArcGIS products developed by Esri (Environmental Systems Research Institute). Windows platforms are maintained for the hosting of desktop and web applications, services, and batch jobs. ArcGIS for Desktop and extensions are made available through Citrix XenApp. Additionally, the County utilizes ArcGIS Online, a cloud service offered by ESRI to deploy simple internet based services. GIS data is maintained in ArcSDE geodatabases using Oracle with Sun Solaris or SQL Server. Refer to Appendix A: GIS Infrastructure Diagram.

Address locator services, GIS web services and map cache services are maintained for general use. Refer to Appendix C: Miami-Dade County Enterprise GIS Services.

The GIS architecture relies on the geodatabase model to manage geographic data and build relationships between different data types. The County has over 1,000 geographic layers in its GIS Central Data Repository as well as current digital orthophotography and oblique imagery from Pictometry. Refer to Appendix D: Miami-Dade County GIS Central Data Repository Layers.

GIS data can be downloaded in various formats at no cost at:
http://gisweb.miamidade.gov/GISSelfServices/GeographicData/MDGeographicData.html

Data can also be downloaded, viewed and accessed from the County's GIS Open Data site which contains all the layers available to the public at no charge. This is the link to the site:

http://gis.mdc.opendata.arcgis.com/

GIS Infrastructure Requirements:

1. Any ArcGIS for Desktop application should be deployable through Citrix XenApp technology.
2. Any ArcGIS for Desktop editing application should use Miami-Dade County ArcGIS Editing Extension.
3. All addresses must adhere to Miami Dade County – USPS Address Standards (Appendix B).
4. Any GIS layer must be stored in Florida State Plane East Zone NAD83, feet coordinate system.

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5. Solution must use Miami-Dade County address locators and Web services for address standardization, geocoding, etc. Refer to Appendix C: Miami-Dade County Enterprise GIS Services.
6. Solution should make use of Miami-Dade County's GIS Web services. Refer to Appendix C: Miami-Dade County Enterprise GIS Services.
7. Any new or restructured GIS data layer will need to meet Miami-Dade County's GIS data standards.
8. Solution should not require the implementation of its own proprietary GIS components.
9. Solution must not require the implementation of GIS software other than Esri suite of products.
10. Solution must be implemented using Oracle or SQL Server databases for spatial data.
11. If solution requires batch processing, jobs must be scheduled and executed without manual intervention.
12. If Web based, solution must use REST (Representational State Transfer) architecture style.
13. If Web based, solution must be implemented using ArcGIS for Server for the Microsoft .Net Framework.
14. Solution must stay current with Esri Product Life Cycle.
15. Applications to be hosted in Miami-Dade County's GIS infrastructure must adhere to Miami-Dade County GIS Application Hosting Standards as specified in this document.
16. Solution must include ability to be compatible with ESRI ArcGIS On-line technology.

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Miami-Dade County

Information Technology Department

Hosting Requirements

ITD will provide Enterprise Hosting Facilities and Technical Support to the Customer for monitoring and maintaining operations of infrastructure environments to include Application support.

Concept of Operations

- Refer to *Technology Model* document for supported hardware/software components.

- Changes to the Production environment shall be introduced through the change management procedures as described by the section *Change Management Process* in this document.

- The Customer's Test and Staging Environments will be hosted and supported by ITD; notification of downtime will be provided with as much advance notice as possible.

- All user-ids must be unique and created using the Miami-Dade County Central Registration System (CRS).

- Requested modifications in a shared environment may be restricted during prime time given their potential requirement for large system resources to execute. Changes of this nature will be scheduled at a time mutually agreed upon.

- Applications to be deployed to the Websphere Application Server (WAS) environment must be packaged for deployment using the Websphere Deployment Manager. For preparation of applications to be deployed on WebSphere Application Server see: *http://publib.boulder.ibm.com/infocenter/wasinfo/v6r0/index.jsp?topic=/com.ibm.websphere. express.doc/info/exp/ae/tatk_create_ear.html*

- ITD does not offer any type of remote shell access under any circumstances, including TELNET, Secure Shell Protocol (SSH), Secure File Transfer Protocol (SFTP) or Secure Copy Protocol (SCP).

- ITD is restricted from implementing changes during periods of "moratoriums" such as during countywide Elections and Tax Collection season. These moratorium periods are well established ahead of time and enforced through the *Change Management Process.*

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- Vendors and contractors will be made aware of previously established production on-call procedures and will be asked to comply with them.

- Vendors must provide minimum hardware requirements.

- Vendors must provide recommended architecture.

- Vendors must have in-house staff with knowledge on technologies listed on the *Technology Model* document for system set-up and support.

- For vendor owned equipment housed in County facility (co-located) where the vendor supports and maintains the equipment while the County provides electricity, air conditioning and may swap out tape trays for backups:
  - For Intel-based equipment
    - Equipment must be rack mountable.
    - County can provide virtualized servers within the shared services infrastructure based on vendor supplied configurations.
  - For non Intel-based equipment
    - An environmental analysis will need to be conducted before the County can determine if space and the associated environmental requirements are available.
  - GSA (General Services Administration) will provision electricity at an associated cost.
  - All the currently billable costs for network connectivity to Metronet still apply.
  - County does not endorse equipment that requires stand-alone tape backup trays and prefers that the vendor solution can be integrated within the existing Veritas NetBackup shared infrastructure.

UNIX/Linux Environment

- Administrator and UNIX/Linux root privileges are limited to ITD Technical Support staff.

- rootvg volume group will not be used to house any databases or any non-operating system data. Databases, application data and logs will be stored in file systems created outside of rootvg.

- Installation of software that needs to be installed as root needs to be performed by or conjunction with ITD Technical staff.

- Application software is prohibited to run as root.

- O/S rootvg will be mirrored between 2 different physical disks.

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- Applications must supply Startup and Shutdown scripts for both normal Startup/Shutdown and Emergency Shutdown.

- All connectivity to servers is accomplished through SSH. The following protocols are disabled Telnet, rsh and rcp.

Database Management

- Access to the Production database environment with DBA/SA privileges is limited to the ITD authorized database support.

- It is the responsibility of ITD DBA staff to migrate new database objects to the production database (at times deemed appropriate).

- The application must encrypt the password in such a way that the particular user-id cannot be used for logon through some other third party tool using an Open Database Connectivity (ODBC) connection such as TOAD or Microsoft (MS) Access.

- Databases or portions thereof may not be transported offsite or copied to Test systems without the expressed authorization of the ITD Security Administrator.

Disaster Recovery

- Unless special provisions are made in advance for the implementation of Disaster Recovery/Business Continuity measures, Customer understands that recovery of IT hardware or data assets from this facility may not be possible. If recovery at ITD is possible, it will be on a best effort basis.

Security Requirements

- Operating system security patches are applied as soon as they are made available through an automated process. Custom patching windows can be created to accommodate availability needs.
- All systems will undergo initial application and host vulnerability scans, prior to being placed into production. High severity applications and systems vulnerability issues identified must be corrected prior to the system being placed into production. The County utilizes multiple vulnerability scanning products including but not limited to Qualys, WebInspect, Rational AppScan and MetaSploit.
- Regularly scheduled periodic rescans will be performed on the system and any deficiencies or vulnerabilities identified must be immediately remediated.
- Application vulnerability rescans must be requested of all new or updated application code prior to release to production. All critical vulnerabilities must be remediated before the application code will be authorized to be migrated to the production environment.

Software Release Levels Supported

- All vendor-supplied software supported by ITD must have an active vendor maintenance agreement and must be kept up to current release levels. Operating system security patches are applied as soon as they are made available

Software License Renewal

- ITD will manage all infrastructure licensing and maintenance contracts. Versions of software which are not supported by the vendors will not be supported by ITD.

Application Test/Staging Environment

- All systems must have at least a Production and Test environment.
  - ➢ A Staging environment is recommended when multiple versions of system software and applications are required.
  - ➢ A separate reporting, batch or Staging environment can be established where there is a need and the budget allows it.

- Production and Test server-side software installation and upgrades will be performed by ITD staff and will follow ITD's *Change Management Process*
  - ➢ Maintenance services will include correction of any defect affecting any of the components of the infrastructure. Resolutions of problems may be delivered in the form of a patch, maintenance update, procedural work around or installation of a new release. Some corrections may be required to be implemented immediately. In those instances, the *Change Management Process* may be expedited. Changes or patches dealing with Security vulnerabilities are expedited and must be treated as very high priority.
- Support services for the Test/Staging environments are available through ITD with on-site support between the hours of 8 am and 5 pm Monday through Friday, excluding County Holidays, unless coordinated in advance. The Application Test database environment is available with support from the on call staff from 7 am to 7 pm, Monday through Friday, excluding County Holidays, unless coordinated in advance. The Test databases are restricted environments; schemas passwords are not published. The Staging database is not restricted; schema passwords are published.

Preventative Maintenance and System Upgrades

- The lengths of outages for non-routine maintenance are determined by the requirements of the maintenance procedure. Each outage will be planned and discussed at the weekly Hardware/Software Meeting held every Wednesday morning at 9 a.m. in the ITD Command Center Conference Room.

- All requests for software or hardware upgrades will be addressed in the Hardware/Software Meeting and must include a detailed plan.

Change Management Process

All requests to modify the Production and Test environments, such as for new Application releases and patches will require a *Change Management Request* form to be submitted using

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the system of record at the time which includes a description and schedule of the change, outage period, areas impacted, back out plan and on call personnel.

Security

Vendors will be required to:

- Provide the ability for each user to be uniquely identified by ID.
- Provide basic authentication through use of passwords.
- Provide the ability to enforce password expiration.
- Provide the ability to require automatic password expirations when initially assigned or reset.
- Provide ability to configure password parameters such as password lengths, user access to expiration settings and other behaviors, enabling alphanumeric characters, etc.
- Provide the ability to encrypt transmitted data and authentication information over internal and external networks.
- Provide support for Secure Socket Layer (SSL) 128 bit and 256 bit encryption.
- Provide a password database encrypted in storage.
- Provide ability to protect audit logs from unauthorized access.
- Provide ability to log activities performed by specific user ID and IP address and to date-time stamp all activities.
- Provide ability to identify and log all subsequent access points to ensure accountability is maintained throughout session.
- Provide ability to limit concurrent sessions.
- Provide ability to log changes to administrative functions.
- Provide ability to automatically archive audit logs.
- Provide ability to set an unsuccessful access attempt limit and suspend IDs after reaching the unsuccessful access threshold.
- Provide ability to send alerts to administrators for unauthorized access attempts.
- Enable automatic logoff of ID after a defined period of session inactivity, and perform subsequent re-log-on password authentication.
- Provide ability to lock out user or group ID by date or time.
- Provide centralized administration, user authorization, registration and termination.
- Data that is protected through encryption is an individual's Personally Identifiable Information (PII). Items that may be considered PII include, but are not limited to, a person's:
  - Full name (if not common)
  - Social Security Number or National identification number
  - Telephone number
  - Street address
  - E-mail address
  - IP address (in some cases)
  - Vehicle license plate number
  - Driver's license number
  - Face, fingerprints, or handwriting
  - Credit card numbers or credit card account information (billing address, account name, expiration date etc.)
  - Bank Account Routing (RTN) and Account numbers
  - Digital identity

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Geographic Information System (GIS)

- ArcGIS for Desktop/CITRIX Applications
  - ➤ Local application data that requires read/write access must be stored/and accessed from the centralized ITD CITRIX file shares. The application cannot require the end user to write to the servers' hard drive.
  - ➤ End user application customizations must be stored in the end users profile under documents and settings.
  - ➤ Applications (including ArcGIS for Desktop extensions) must be compatible with 64bit Windows Server operating systems.
  - ➤ Source code must be available.

- ArcGIS for Server Web Applications
  - ➤ Application must work with current version of ArcGIS for Server running in production servers or a newer planned upgrade version.
  - ➤ All applications should access data from ITD ArcSDE servers, and only specific datasets should be stored locally. A process should be implemented if data needs to be refreshed.
  - ➤ All errors should be written to a log folder in corresponding website directory created for each GIS application.
  - ➤ If application is found to contain errors that render it unusable or that present erroneous or misrepresented data, the GIS Web administrator will remove it immediately from production until such time as the application is fixed and tested successfully.
  - ➤ Every new Internet application must pass a security review prior to production implementation.

- ArcGIS/ArcSDE Geodatabase Desktop and Web Editing Applications
  - ➤ All applications must work with the same version of ArcGIS that the County is using in its enterprise production environment or a newer planned upgrade version.
  - ➤ Desktop editing applications should be integrated with Miami-Dade Editing Extension in order to leverage the County's geodatabase versioning mechanism. ITD will provide documentation and required technical support.
  - ➤ Desktop editing applications should be deployed through CITRIX technology. If CITRIX is not a viable solution, the user department is responsible for coordinating the installation, maintenance and upgrade of software in users' workstations.
  - ➤ Web editing applications should use a designated Read/Write ArcSDE instance for the Web, separate from the one used by desktop applications.
  - ➤ The GIS ArcSDE geodatabase being edited by the hosted editing application (desktop or web) should be loaded in a development instance and fully tested prior to its production implementation. ITD GIS staff will be responsible for loading the data from the development instance to production. A copy of the ArcSDE enterprise architecture document will be provided before data loading.
  - ➤ Editing Web applications are required to use CAPTCHA, data field validation, and ACL (Access Control List) or an equivalent user permission mechanism.

- Batch Server Jobs
  - ➤ Batch jobs must work with current version of ArcGIS desktop/SDE suite running in production servers or a newer planned upgrade version.

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- All batch jobs must comply with the GIS standards for jobs development and ITD job naming conventions and scheduling procedures.
- Any temporary data should be created in the designated batch job folder within the Scratch Area.
- All errors should be written to a log folder in corresponding job directory created for each batch processing job.
- All applications should access data from ITD ArcSDE servers, and only specific datasets should be stored locally. A process should be implemented if data needs to be refreshed.
- Jobs should be tested thoroughly in the development environment before a change management request is submitted to move job/job related components to the production batch processing servers.
- All changes to batch processing jobs in the production environment should be requested via change management procedures and should be implemented by the assigned GIS staff.

Appendices:

Appendix A: GIS Infrastructure Diagram

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Appendix B- Miami Dade County – USPS Address Standards

An address has the following components; house number, pre-direction, street name (number), street type, post-direction, unit designators, city, state and zip code. When formatting addresses into a database the address field should contain the house number, pre-direction, street name (number), street type and post-direction components. All other components should be contained within their own field. Zip code should be separated from the zip+4 designations. For the purposes of this document we will parse the address from left to right. This document describes the address standards for all components of an address.

1 House Number

<div align="center">

23456 SW 159th Ct

</div>

The first component of an address is the house number. The house number is from one to five numeric digits.

2 Pre-directional

<div align="center">

345 **NW** 72nd Ave

</div>

The second component is the pre-directional. Abbreviate according to the appropriate one or two character abbreviation:

Direction	Abbv.	Direction	Abbv.
North	N	Northeast	NE
South	S	Northwest	NW
East	E	Southeast	SE
West	W	Southwest	SW

3 Street Name

<div align="center">

5680 SW **87th** Ave

</div>

The third component is the street name. Numeric street names, should be written using numeric characters and with the appropriate endings, for example, 7th, 72nd, 56th, 3rd. If a street name contains a direction it should be spelled out.

The following are standardized examples of county, state, and local highways (see Table B for an expanded table).

<div align="center">

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</div>

Name

COUNTY ROAD 20

COUNTY HIGHWAY 140

HIGHWAY 50

INTERSTATE 680

ROAD 123

STATE HIGHWAY 335

STATE ROUTE 39

US HIGHWAY 70

TOWNSHIP ROAD 20

4   Street Types

43789 NW 77th **Cir**

The fourth component is the street type. The street type of the address should conform to the standard street type abbreviations listed in Table A.

43789 NW 77th **Circle Pl**

If an address has two consecutive words that appear on the street type table (Table A), abbreviate the second of the two words according to the street type table and place it in the street type position of the address. The first of the two words is part of the primary name. Spell it out and add it to the street name.

5   Post-directional

13700 Kendale Lakes Cr E

The fifth component is the post-directional. See item 2 pre-directional for standardization.

6   Unit Designators

5576 S Miami Ave   Apt 13

The sixth component is the unit designator. Unit designators, such as APARTMENT or SUITE should not be included in the address field of a database. The unit designation should conform to the standard abbreviations listed in Table C. The pound sign (#) should not be used as a secondary unit designator if the correct designation, such as APT or STE, is known.

7   City Names

The seventh component is the city name. Spell city names in their entirety.

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8   State Names

The eight component of an address is the state name. The state name should be abbreviated to the standard two-letter abbreviation as listed in Table D.

9   Zip code

The ninth component of an address is the zip code. The zip code or zip+4 must be correctly applied according to the USPS postal service. The primary zip code should be stored separately from the zip +4.

Table A

Street Type Abbreviations

Primary Street Type Name	Postal Service Standard Street Type Abbreviation
ALLEY	ALY
ANNEX	ANX
ARCADE	ARC
AVENUE	AVE
BAYOU	BYU
BEACH	BCH
BEND	BND
BLUFF	BLF
BLUFFS	BLFS
BOTTOM	BTM
BOULEVARD	BLVD
BRANCH	BR
BRIDGE	BRG
BROOK	BRK

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BROOKS	BRKS
BURG	BG
BURGS	BGS
BYPASS	BYP
CAMP	CP
CANYON	CYN
CAPE	CPE
CAUSEWAY	CSWY
CENTER	CTR
CENTERS	CTRS
CIRCLE	CIR
CIRCLES	CIRS
CLIFF	CLF
CLIFFS	CLFS
CLUB	CLB
COMMON	CMN
COMMONS	CMNS
CONCOURSE	CONC
CORNER	COR
CORNERS	CORS
COURSE	CRSE
COURT	CT
COURTS	CTS
COVE	CV
COVES	CVS
CREEK	CRK
CRESCENT	CRES
CREST	CRST
CROSSING	XING
CROSSROAD	XRD

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CROSSROADS	XRDS
CURVE	CURV
DALE	DL
DAM	DM
DIVIDE	DV
DRIVE	DR
DRIVES	DRS
ESTATE	EST
ESTATES	ESTS
EXPRESSWAY	EXPY
EXTENSION	EXT
EXTENSIONS	EXTS
FALL	FALL
FALLS	FL
FERRY	FRY
FIELD	FLD
FIELDS	FLDS
FLAT	FLT
FLATS	FLTS
FORD	FRD
FORDS	FRDS
FOREST	FRST
FORGE	FRG
FORGES	FRGS
FORK	FRK
FORKS	FRKS
FORT	FT
FREEWAY	FWY
GARDEN	GDN
GARDENS	GDNS

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GATEWAY	GTWY
GLEN	GLN
GLENS	GLNS
GREEN	GRN
GREENS	GRNS
GROVE	GRV
GROVES	GRVS
HARBOR	HBR
HARBORS	HBRS
HAVEN	HVN
HEIGHTS	HTS
HIGHWAY	HWY
HILL	HL
HILLS	HLS
HOLLOW	HOLW
INLET	INLT
ISLAND	IS
ISLANDS	ISS
ISLE	ISLE
JUNCTION	JCT
JUNCTIONS	JCTS
KEY	KY
KEYS	KYS
KNOLL	KNL
KNOLLS	KNLS
LAKE	LK
LAKES	LKS
LAND	LAND
LANDING	LNDG
LANE	LN

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LIGHT	LGT
LIGHTS	LGTS
LOAF	LF
LOCK	LCK
LOCKS	LCKS
LODGE	LDG
LOOP	LOOP
MALL	MALL
MANOR	MNR
MANORS	MNRS
MEADOW	MDW
MEADOWS	MDWS
MEWS	MEWS
MILL	ML
MILLS	MLS
MISSION	MSN
MOTORWAY	MTWY
MOUNT	MT
MOUNTAIN	MTN
MOUNTAINS	MTNS
NECK	NCK
ORCHARD	ORCH
OVAL	OVAL
OVERPASS	OPAS
PARK	PARK
PARKS	PARK
PARKWAY	PKWY
PARKWAYS	PKWY
PASS	PASS
PASSAGE	PSGE

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PATH	PATH
PIKE	PIKE
PINE	PNE
PINES	PNES
PLACE	PL
PLAIN	PLN
PLAINS	PLNS
PLAZA	PLZ
POINT	PT
POINTS	PTS
PORT	PRT
PORTS	PRTS
PRAIRIE	PR
RADIAL	RADL
RAMP	RAMP
RANCH	RNCH
RAPID	RPD
RAPIDS	RPDS
REST	RST
RIDGE	RDG
RIDGES	RDGS
RIVER	RIV
ROAD	RD
ROADS	RDS
ROUTE	RTE
ROW	ROW
RUE	RUE
RUN	RUN
SHOAL	SHL
SHOALS	SHLS

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SHORE	SHR
SHORES	SHRS
SKYWAY	SKWY
SPRING	SPG
SPRINGS	SPGS
SPUR	SPUR
SPURS	SPUR
SQUARE	SQ
SQUARES	SQS
STATION	STA
STRAVENUE	STRA
STREAM	STRM
STREET	ST
STREETS	STS
SUMMIT	SMT
TERRACE	TER
THROUGHWAY	TRWY
TRACE	TRCE
TRACK	TRAK
TRAFFICWAY	TRFY
TRAIL	TRL
TRAILER	TRLR
TUNNEL	TUNL
TURNPIKE	TPKE
UNDERPASS	UPAS
UNION	UN
UNIONS	UNS
VALLEY	VLY
VALLEYS	VLYS
VIADUCT	VIA

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VIEW	VW	
VIEWS	VWS	
VILLAGE	VILL	VLG
VILLAGES	VLGS	
VILLE	VL	
VISTA	VIS	
WALK	WALK	
WALKS	WALK	
WALL	WALL	
WAY	WAY	
WAYS	WAYS	
WELL	WL	
WELLS	WLS	

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Table B

Address Standardization - County, State, Local Highways

The following are examples of county, state, and local highway primary names and the recommended standardized format. These are not the only possible examples.

Examples in Use	Standard
COUNTY HIGHWAY 140	COUNTY HIGHWAY 140
COUNTY HWY 60E	COUNTY HIGHWAY 60E
CNTY HWY 20	COUNTY HIGHWAY 20
COUNTY RD 441	COUNTY ROAD 441
COUNTY ROAD 110	COUNTY ROAD 110
CR 1185	COUNTY ROAD 1185
CNTY RD 33	COUNTY ROAD 33
FL COUNTY RD 150	FL COUNTY ROAD 150
FLORIDA COUNTY ROAD 555 (excessive characters)	FL COUNTY ROAD 555
EXPRESSWAY 55	EXPRESSWAY 55
FARM to MARKET 1200	FM 1200
FM 187	FM 187
HWY FM 1320	FM 1320
HIGHWAY 101	HIGHWAY 101
HIWAY 1080A	HIGHWAY 1080A
HWY 64	HIGHWAY 64
HWY 11 BYPASS	HIGHWAY 11 BYP
HWY 66 FRONTAGE ROAD	HIGHWAY 66 FRONTAGE RD
HIGHWAY 3 BYP ROAD	HIGHWAY 3 BYPASS RD
I10	INTERSTATE 10
INTERSTATE 40	INTERSTATE 40
IH280	INTERSTATE 280
INTERSTATE HWY 680	INTERSTATE 680
I 55 BYPASS	INTERSTATE 55 BYP

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I 26 BYP ROAD	INTERSTATE 26 BYPASS RD
I 44 FRONTAGE ROAD	INTERSTATE 44 FRONTAGE RD
LOOP 410	LOOP 410
RD 5A	ROAD 5A
ROAD 22	ROAD 22
RT 88	ROUTE 88
RTE 95	ROUTE 95
ROUTE 1150EE	ROUTE 1150EE
RANCH RD 620	RANCH ROAD 620
ST HIGHWAY 303	STATE HIGHWAY 303
STATE HWY 60	STATE HIGHWAY 60
SR 220	STATE ROAD 220
ST RD 86	STATE ROAD 86
STATE ROAD 55	STATE ROAD 55
SR MM	STATE ROUTE MM
ST RT 175	STATE ROUTE 175
STATE RTE 260	STATE ROUTE 260
TOWNSHIP RD 20	TOWNSHIP ROAD 20
TSR 45	TOWNSHIP ROAD 45
US 41 SW	US HIGHWAY 41 SW
US HWY 44	US HIGHWAY 44
US HIGHWAY 70	US HIGHWAY 70
FLORIDA 440	FL HIGHWAY 440
FLORIDA HIGHWAY 189	FL HIGHWAY 189
FL 1207	FL HIGHWAY 1207
FL HWY 75	FL HIGHWAY 75
FL ST HWY 1	FL STATE HIGHWAY 1
FL STATE HIGHWAY 24	FL STATE HIGHWAY 24
FLORIDA STATE HIGHWAY 625	FL STATE HIGHWAY 625
(excessive characters)	

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Note: When the name of a state is used as a portion of the Primary Street Name, the standard two-letter abbreviation is recommended as depicted in the previous examples. However, when the state name is the complete Primary Street Name, such as OKLAHOMA AVE, then the state name should be spelled out completely.

Table C

Unit Designator Abbreviations

Description	Approved Abbreviation
Apartment	APT
Basement	BSMT**
Blank, unable to determine*	
Building	BLDG
Department	DEPT
Floor	FL
Front	FRNT**
Hanger	HNGR
Key	KEY
Lobby	LBBY**
Lot	LOT
Lower	LOWR**
Office	OFC**
Penthouse	PH**
Pier	PIER
Rear	REAR**
Room	RM
Side	SIDE**
Slip	SLIP
Space	SPC
Stop	STOP
Suite	STE

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Trailer	TRLR
Unit	UNIT
Upper	UPPR**

*　　Requires the pound sign (#) to be used on the mailpiece.

**　　Does not require a Secondary RANGE to follow.

Table D

State Abbreviations

State/Possession	Abbreviation
Alabama	AL
Alaska	AK
American Samoa	AS
Arizona	AZ
Arkansas	AR
California	CA
Colorado	CO
Connecticut	CT
Delaware	DE
District of Columbia	DC
Federated States of Micronesia	FM
Florida	FL
Georgia	GA
Guam	GU
Hawaii	HI
Idaho	ID
Illinois	IL
Indiana	IN
Iowa	IA
Kansas	KS
Kentucky	KY
Louisiana	LA

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Maine	ME
Marshall Islands	MH
Maryland	MD
Massachusetts	MA
Michigan	MI
Minnesota	MN
Mississippi	MS
Missouri	MO
Montana	MT
Nebraska	NE
Nevada	NV
New Hampshire	NH
New Jersey	NJ
New Mexico	NM
New York	NY
North Carolina	NC
North Dakota	ND
Northern Mariana Islands	MP
Ohio	OH
Oklahoma	OK
Oregon	OR
Palau	PW
Pennsylvania	PA
Puerto Rico	PR
Rhode Island	RI
South Carolina	SC
South Dakota	SD
Tennessee	TN
Texas	TX
Utah	UT

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Vermont	VT
Virgin Islands	VI
Virginia	VA
Washington	WA
West Virginia	WV
Wisconsin	WI
Wyoming	WY

Appendix C: Miami-Dade County Enterprise GIS Services

http://gisws.miamidade.gov
Standardized GIS Services Platform

Address Locator Services

Miami-Dade County's GIS address locator services are updated weekly and hosted on the gisws ArcGIS server platform. Services available are:

- MDC_Locators/GeoAddress-20 – Geocodes against the GeoAddress feature class. GeoAddress is a point feature class of all addresses in Miami-Dade County. Points are located in the centroid of each property except in the cases where there are multiple addresses. Multiple addresses are located over the respective buildings. Match scores are set to a very low 20, which ensures a match every time but not always the correct one. This locator is most commonly used in an interactive process where the data entry user is presented multiple addresses to select from while assigning a valid Miami-Dade address to a record.
- MDC_Locators/GeoAddress – Designed the same as GeoAddress-20 however, the match scores are set higher to ensure a more exact match. This locator is more commonly used in batch processes.
- MDC_Locators/GeoStreet-20 – Geocodes against the GeoStreet feature class. GeoStreet is a line feature class which represents a street segment. An address range is assigned to each segment and the address is geo-located proportionately along this range. Match scores are set to a very low 20, which ensures a match every time but not always the correct one. This locator is most commonly used in an interactive process where the data entry user is presented multiple addresses to select from while assigning a valid Miami-Dade address to a record.
- MDC_Locators/GeoStreet - Designed the same as GeoStreet-20 however, the match scores are set higher to ensure a more exact match. This locator is more commonly used in batch processes.
- MDC_Locators/MD_Locator-20 – A composite locator, addresses are first located against GeoAddress-20 and if no match is found they are then located against GeoStreet-20.
- MDC_Locators/MD_Locator - A composite locator, addresses are first located against GeoAddress and if no match is found they are then located against GeoStreet.

GIS WEB Services

Standardize

This XML Web service formats an input address with Miami-Dade County – USPS Address Standards. The following methods are available.

- **standardizeAddress**
  This XML Web service method returns a standardized address from the input address.

- **standardizeAddressParsed**
  This XML Web service method returns a standardized address from the parsed input address.

- **standardizeIntersection**
  This XML Web service method returns a standardized intersection from the input intersection.

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- **standardizeIntersectionParsed**
  This XML Web service method returns a standardized intersection from the parsed input intersection.

Verify

This XML Web service identifies whether a provided address is a valid Miami-Dade County address. It also standardizes the given address using the Standardize WEB Service.

The service returns the following codes: Y, N, D or S.

Y indicates a valid **address**.

N indicates an invalid address.

D indicates a valid address and that more than one address exists in the MDC address database.

S indicates that the address does not exist in the MDC address database but does exist within the MDC address range database.

The following methods are supported.

- **VerifyAddress**
  This XML Web service method validates the input address.

- **VerifyAddressMunic**
  This XML Web service method validates the input address and Municipality Code.

- **VerifyAddressParsed**
  This XML Web service method validates the parsed input address.

- **VerifyAddressParsedMunic**
  This XML Web service method validates the parsed input address and Municipality Code.

- **VerifyAddressParsedZip**
  This XML Web service method validates the parsed input address and Zip Code.

- **VerifyAddressZip**
  This XML Web service method validates the input address and Zip Code.

- **VerifyIntersectionParsed**
  This XML Web service method validates the parsed input intersection.

- **VerifyIntesection**
  This XML Web service method validates the input intersection.

AddrXY

This XML Web service returns NAD 83 State Plane X and Y coordinate if provided a valid Miami-Dade County address.

The following methods are supported.

- **XYAddress**
  This XML Web service method returns X, Y Coordinate(s) for the input address.

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- **XYAddressMunic**
  This XML Web service method returns X, Y Coordinate for the input address and Municipality Code.

- **XYAddressParsed**
  This XML Web service method returns X, Y Coordinate(s) for the parsed input address.

- **XYAddressParsedMunic**
  This XML Web service method returns X, Y Coordinate for the parsed input address and Municipality Code.

- **XYAddressParsedZip**
  This XML Web service method returns X, Y Coordinate for the parsed input address and Zip Code.

- **XYAddressZip**
  This XML Web service method returns X, Y Coordinate for the input address and Zip Code.

- **XYIntersection**
  This XML Web service method returns X, Y Coordinate(s) for the input intersection.

- **XYIntersectionParsed**
  This XML Web service method returns X, Y Coordinate(s) for the parsed input intersection.

- **XYStreetParsedZip**
  This XML Web service method returns X, Y Coordinate(s) for the parsed input address and Zip code geocoding against street.

- **XYStreetZip**
  This XML Web service method returns X, Y Coordinate(s) for the input address and Zip code geocoding against street.

AddressWebService

This XML Web service combines the other WEB services (including standardize) to produce results. Results include standardized address parsed and non-parsed, identifies which geodatabase the address matched against, and if the address validated against the exact match database the service also returns x/y coordinates, folio, cluc, zip code, and munic_code.

- **Address**
  This XML Web service method returns the first found X, Y Coordinate, Folio, Cluc, Standardized Address and Validation result for the input address.

- **AddressD**
  This XML Web service method returns multiple X, Y Coordinate, Folio, Cluc, Standardized Address and Validation result for the duplicated address.

- **AddressMunic**
  This XML Web service method returns X, Y Coordinate, Folio, Cluc, Standardized Address and Validation result for the input address and Municipality code.

- **AddressMunicParsed**
  This XML Web service method returns X, Y Coordinate, Folio, Cluc, Standardized Address and Validation result for the Parsed input address and Municipality code.

- **AddressParsed**
  This XML Web service method returns the first found X, Y Coordinate, Folio, CLUC, Standardized Address and Validation result for the Parsed input address.

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- **AddressParsedD**
  This XML Web service method returns multiple X, Y Coordinate, Folio, Cluc, Standardized Address and Validation result for the Parsed duplicated address.

- **AddressZip**
  This XML Web service method returns X, Y Coordinate, Folio, Cluc, Standardized Address and Validation result for the input address and zip code.

- **AddressZipParsed**
  This XML Web service method returns X, Y Coordinate, Folio, Cluc, Standardized Address and Validation result for the Parsed input address and zip code.

- **Intersection**
  This XML Web service method returns the first found X, Y Coordinate, Standardized Intersection and Validation result for the input Intersection.

- **IntersectionD**
  This XML Web service method returns multiple X, Y Coordinate, Standardized Intersection and Validation result for the duplicated Intersection.

- **IntersectionParsed**
  This XML Web service method returns the first found X, Y Coordinate, Standardized Intersection and Validation result for the input Intersection.

- **IntersectionParsedD**
  This XML Web service method returns multiple X, Y Coordinate, Standardized Intersection and Validation result for the Parsed duplicated Intersection.

FolioCluc

This XML Web service returns Folio number and CLUC value given a valid Miami-Dade County address.

The following methods are supported.

- **FolCluc**
  This XML Web service method returns FOLIO numbers and CLUC values for the input address.

- **FolClucMunic**
  This XML Web service method returns FOLIO number and CLUC value for the input address and Municipality Code.

- **FolClucParsed**
  This XML Web service method returns FOLIO numbers and CLUC values for the parsed input address.

- **FolClucParsedMunic**
  This XML Web service method returns FOLIO number and CLUC value for the parsed input address and Municipality Code.

- **FolClucParsedZip**
  This XML Web service method returns FOLIO number and CLUC value for the parsed input address and Zip Code.

- **FolClucZip**
  This XML Web service method returns FOLIO number and CLUC value for the input address and Zip Code.

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Condo

This XML Web service returns condo folio numbers that are related with the provided a parent address or folio within Miami-Dade County.

The following methods are supported.

- **CondoAddressMunic**
  This XML Web service method returns condo folio numbers that are related with the parent address and Municipality Code.

- **CondoAddressParsedMunic**
  This XML Web service method returns condo folio numbers that are related with the parsed parent address and Municipality Code.

- **CondoAddressParsedZip**
  This XML Web service method returns condo folio numbers that are related with the parsed parent address and Zip Code.

- **CondoAddressZip**
  This XML Web service method returns condo folio numbers that are related with the parent address and Zip Code.

- **ParentChildFolio**
  This XML Web service method returns children folio numbers and addresses information for the input parent folio number.

- **ParentFolio**
  This XML Web service method returns parent folio number for the input child folio number.

GeoProperty

This XML Web service returns GeoProperty values: Subunit, zip code, condo flag, county land use code, township/range/section (ttrrss), commissioner district, election precinct, census tract 2000, police grid, traffic analysis zone, community council, subarea, zoning code, flood zone, and state plane x/y coordinate if provided a valid Miami-Dade County addresses.

The following methods are supported.

- **GeoProperty**
  This XML Web service method returns a standard address and other location identifiers for the input address and Zipcode through a geoprocess.

- **GeoPropertyParsed**
  This XML Web service method returns a standard address and other location identifiers for the input address and Zipcode through a geoprocess.

GeoIntersect

This XML Web service returns the attributes of the feature in the specified Feature Class that intersects the specified X and Y.

The following operations are supported.

- **GetAllFieldsRecords**
  This XML Web service method returns a DataTable, with the values of all field for the feature(s) intersecting the specified x and y in the given polygon feature Class.

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- **GetAllFieldsRecords_DS**
  This XML Web service method returns a DataSet with a DataTable with the values of all field for the feature(s) intersecting the specified x and y in the given polygon feature Class.

- **GetAllFieldsRecords_DS_LocalData**
  This XML Web service method returns a DataSet with a DataTable with the values of all field for the feature(s) intersecting the specified x and y in the given polygon feature Class. NOTE: This method searches a database stored locally in the same server as this WebService; not all the data currently in SDE is available locally.

- **GetAllFieldsRecords_LocalData**
  This XML Web service method returns a DataTable, with the values of all field for the feature(s) intersecting the specified x and y in the given polygon feature Class. NOTE: This method searches a database stored locally in the same server as this WebService; not all the data currently in SDE is available locally.

- **GetAllFieldsRecords_XML**
  This XML Web service method returns an XML document with the values of all field for the feature(s) intersecting the specified x and y in the given polygon feature Class.

- **GetAllFieldsRecords_XML_LocalData**
  This XML Web service method returns an XML document with the values of all field for the feature(s) intersecting the specified x and y in the given polygon feature Class. NOTE: This method searches a database stored locally in the same server as this WebService; not all the data currently in SDE is available locally.

- **GetSpecifiedFieldsRecords**
  This XML Web service method returns a DataTable, with the values of the specified comma-separated fields for the feature(s) intersecting the specified x and y in the given polygon feature Class.

- **GetSpecifiedFieldsRecords_DS**
  This XML Web service method returns a DataSet with a DataTable with the values of the specified comma-separated fields for the feature(s) intersecting the specified x and y in the given polygon feature Class.

- **GetSpecifiedFieldsRecords_DS_LocalData**
  This XML Web service method returns a DataSet with a DataTable with the values of the specified comma-separated fields for the feature(s) intersecting the specified x and y in the given polygon feature Class. NOTE: This method searches a database stored locally in the same server as this WebService; not all the data currently in SDE is available locally.

- **GetSpecifiedFieldsRecords_LocalData**
  This XML Web service method returns a DataTable, with the values of the specified comma-separated fields for the feature(s) intersecting the specified x and y in the given polygon feature Class. NOTE: This method searches a database stored locally in the same server as this WebService; not all the data currently in SDE is available locally.

- **GetSpecifiedFieldsRecords_XML**
  This XML Web service method returns an XML document with the values of the specified comma-separated fields for the feature(s) intersecting the specified x and y in the given polygon feature Class.

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- **GetSpecifiedFieldsRecords_XML_LocalData**
  This XML Web service method returns an XML document with the values of the specified comma-separated fields for the feature(s) intersecting the specified x and y in the given polygon feature Class. NOTE: This method searches a database stored locally in the same server as this WebService; not all the data currently in SDE is available locally.

GeoAttribute

This XML Web service returns the attributes of the feature(s) or records in the specified Feature Class or Table, given a field to search on, and the field's value.

The following operations are supported.

- GetAllFieldsRecordsGivenAFieldNameAndValue
  This XML Web service method returns a DataTable, with the values of all fields for the feature(s) or record(s) selected on the specified Feature class or Table, given the name of the field to search on, and the field's value. Valid field types to search on are: Numeric, String or Date. If value type 'Date' is used the value string must be in the following format 'YYYY-MM-DD HH24:MI:SS' Example: '2008-07-08 10:25:03'.
  If your request returns to many records you may need in your application to increase the time the XML Web Service client waits for synchronous XML Web Service request to complete (in milliseconds) by using
  'Service.Timeout = -1' where Service is the object pointing to this Web Service. Use -1 to set an Infinite time out.
  Also, you may need to increase your httpRuntime executionTimeout. One way to do it is adding the line <httpRuntime executionTimeout=(Here goes the number of seconds)/> between the <system.web> tabs in your Web.Config.

- GetAllFieldsRecordsGivenAFieldNameAndValue_DS
  This XML Web service method returns a DataSet with a DataTable, with the values of all fields for the feature(s) or record(s) selected on the specified Feature class or Table, given the name of the field to search on, and the field's value. Valid field types to search on are: Numeric, String or Date. If value type 'Date' is used the value string must be in the following format 'YYYY-MM-DD HH24: MI:SS' Example: '2008-07-08 10:25:03'.
  If your request returns to many records you may need in your application to increase the time the XML Web Service client waits for synchronous XML Web Service request to complete (in milliseconds) by using
  'Service.Timeout = -1' where Service is the object pointing to this Web Service. Use -1 to set an Infinite time out.
  Also, you may need to increase your httpRuntime executionTimeout. One way to do it is adding the line <httpRuntime executionTimeout=(Here goes the number of seconds)/> between the <system.web> tabs in your Web.Config.

- GetAllFieldsRecordsGivenAFieldNameAndValue_DS_LocalData
  This XML Web service method returns a DataSet with a DataTable, with the values of all fields for the feature(s) or record(s) selected on the specified Feature class or Table, given the name of the field to search on, and the field's value. Valid field types to search on are: Numeric, String or Date. If value type 'Date' is used the value string must be in the following format 'YYYY-MM-DD HH24:MI:SS' Example: '2008-07-08 10:25:03'.
  If your request returns to many records you may need in your application to increase the time the XML Web Service client waits for synchronous XML Web Service request to complete (in milliseconds) by using

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'Service.Timeout = -1' where Service is the object pointing to this Web Service. Use -1 to set an Infinite time out.
Also, you may need to increase your httpRuntime executionTimeout. One way to do it is adding the line <httpRuntime executionTimeout=(Here goes the number of seconds)/> between the <system.web> tabs in your Web.Config.
NOTE: This method searches a database stored locally in the same server as this WebService; not all the data currently in SDE is available locally.

- GetAllFieldsRecordsGivenAFieldNameAndValue_LocalData
This XML Web service method returns a DataTable, with the values of all fields for the feature(s) or record(s) selected on the specified Feature class or Table, given the name of the field to search on, and the field's value. Valid field types to search on are: Numeric, String or Date. If value type 'Date' is used the value string must be in the following format 'YYYY-MM-DD HH24:MI:SS' Example: '2008-07-08 10:25:03'.
If your request returns to many records you may need in your application to increase the time the XML Web Service client waits for synchronous XML Web Service request to complete (in milliseconds) by using
'Service.Timeout = -1' where Service is the object pointing to this Web Service. Use -1 to set an Infinite time out.
Also, you may need to increase your httpRuntime executionTimeout. One way to do it is adding the line <httpRuntime executionTimeout=(Here goes the number of seconds)/> between the <system.web> tabs in your Web.Config.
NOTE: This method searches a database stored locally in the same server as this WebService; not all the data currently in SDE is available locally.

- GetSpecifiedFieldsRecordsGivenAFieldNameAndValue
This XML Web service method returns a DataTable, with the values of the specified fields for the feature(s) or record(s) selected on the specified Feature Class or Table, given the name of the field to search on, the field's value, and a string of fields names to be returned separated by commas. Valid field types to search on are: Numeric, String or Date. If value type 'Date' is used the value string must be in the following format 'YYYY-MM-DD HH24:MI:SS' Example: '2008-07-08 10:25:03'.
If your request returns to many records you may need in your application to increase the time the XML Web Service client waits for synchronous XML Web Service request to complete (in milliseconds) by using
'Service.Timeout = -1' where Service is the object pointing to this Web Service. Use -1 to set an Infinite time out.
Also, you may need to increase your httpRuntime executionTimeout. One way to do it is adding the line <httpRuntime executionTimeout=(Here goes the number of seconds)/> between the <system.web> tabs in your Web.Config.

- GetSpecifiedFieldsRecordsGivenAFieldNameAndValue_DS
This XML Web service method returns a DataSet with a DataTable, with the values of the specified fields for the feature(s) or record(s) selected on the specified Feature Class or Table, given the name of the field to search on, the field's value, and a string of fields names to be returned separated by commas. Valid field types to search on are: Numeric, String or Date. If value type 'Date' is used the value string must be in the following format 'YYYY-MM-DD HH24:MI:SS' Example: '2008-07-08 10:25:03'.
If your request returns to many records you may need in your application to increase the time the XML Web Service client waits for synchronous XML Web Service request to complete (in milliseconds) by using
'Service.Timeout = -1' where Service is the object pointing to this Web Service. Use -1 to set

an Infinite time out.

Also, you may need to increase your httpRuntime executionTimeout. One way to do it is adding the line <httpRuntime executionTimeout=(Here goes the number of seconds)/> between the <system.web> tabs in your Web.Config.

- GetSpecifiedFieldsRecordsGivenAFieldNameAndValue_DS_LocalData
  This XML Web service method returns a DataSet with a DataTable, with the values of the specified fields for the feature(s) or record(s) selected on the specified Feature Class or Table, given the name of the field to search on, the field's value, and a string of fields names to be returned separated by commas. Valid field types to search on are: Numeric, String or Date. If value type 'Date' is used the value string must be in the following format 'YYYY-MM-DD HH24:MI:SS' Example: '2008-07-08 10:25:03'.
  If your request returns to many records you may need in your application to increase the time the XML Web Service client waits for synchronous XML Web Service request to complete (in milliseconds) by using
  'Service.Timeout = -1' where Service is the object pointing to this Web Service. Use -1 to set an Infinite time out.
  Also, you may need to increase your httpRuntime executionTimeout. One way to do it is adding the line <httpRuntime executionTimeout=(Here goes the number of seconds)/> between the <system.web> tabs in your Web.Config.
  NOTE: This method searches a database stored locally in the same server as this WebService; not all the data currently in SDE is available locally.

- GetSpecifiedFieldsRecordsGivenAFieldNameAndValue_LocalData
  This XML Web service method returns a DataTable, with the values of the specified fields for the feature(s) or record(s) selected on the specified Feature Class or Table, given the name of the field to search on, the field's value, and a string of fields names to be returned separated by commas. Valid field types to search on are: Numeric, String or Date. If value type 'Date' is used the value string must be in the following format 'YYYY-MM-DD HH24:MI:SS' Example: '2008-07-08 10:25:03'.
  If your request returns to many records you may need in your application to increase the time the XML Web Service client waits for synchronous XML Web Service request to complete (in milliseconds) by using
  'Service.Timeout = -1' where Service is the object pointing to this Web Service. Use -1 to set an Infinite time out.
  Also, you may need to increase your httpRuntime executionTimeout. One way to do it is adding the line <httpRuntime executionTimeout=(Here goes the number of seconds)/> between the <system.web> tabs in your Web.Config.
  NOTE: This method searches a database stored locally in the same server as this WebService; not all the data currently in SDE is available locally.

XYLatLongConversionsClass

This XML Web service is a projection service between X/Y coordinates and Longitude and Latitude. The following operations are supported:

- getLatLongDecFromXY
  This XML Web service method returns the longitude and latitude in decimal for the given X/Y coordinate as a double array.

- **getLatLongDegreeFromXY**
  This XML Web service method returns, as a String Array, the longitude and latitude in Degrees Minutes format, for the given X/Y coordinates.

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- **getLatLongInDegMinSecFromXY**
  This XML Web service method returns, as a String Array, the longitude and latitude in Degrees Minutes Seconds format, for the given X/Y coordinates.

- **getXYfromLatLongDec**
  This XML Web service method returns the X/Y coordinate for the given longitude and latitude in a decimal as a double array.

- **getXYfromLatLongDegree**
  This XML Web service method returns, as a double array, the X/Y coordinates for the given longitude and latitude in Degrees Minutes format.

- **getXYfromLatLongInDegMinSec**
  This XML Web service method returns, as a Double array, the X/Y coordinates for the given longitude and latitude in Degrees Minutes Seconds format.

GetClosestFeatureClass

This XML Web service has methods for returning attributes of the closest features to X/Y inputs. A list of the GIS feature classes can be found at \\s0140158\geodatabase\Standards and is called datainfo.xls . The following operations are supported:

- **GetClosestFeatureFromXY**
  This XML Web service method returns closest Features(ordered by distance) for a given X/Y coordinate, an X integer in feet for buffer to create around coordinate, and Feature Class name to query.***Specify named attributes by semi-colon delimited list

- **GetClosestFeatureFromXYAllAtrbts**
  This XML Web service method returns closest Features(ordered by distance) for a given X/Y coordinate, an X integer in feet for buffer to create around coordinate, and Feature Class name to query.***All attributes returned

- **GetClosestFeatureFromXYAllAtrbts_LocalData**
  This XML Web service method returns closest Features(ordered by distance) from a given X/Y coordinate, an X integer in feet for buffer to create around coordinate, and Feature Class name to query.***All attributes returned. NOTE: This method searches a database stored locally in the same server as this WebService; not all the data currently in SDE is available locally.

- **GetClosestFeatureFromXY_LocalData**
  This XML Web service method returns closest Features(ordered by distance) for a given X/Y coordinate, an X integer in feet for buffer to create around coordinate, and Feature Class name to query.***Specify named attributes by semi-colon delimited list. NOTE: This method searches a database stored locally in the same server as this WebService; not all the data currently in SDE is available locally.

- **getFolioFromXY**
  This XML Web service method returns top Folio Numbers for a given X/Y coordinate and a 500 feet buffer created around the coordinate.

- **getStreetIDFromXY**
  This XML Web service method returns top Street IDs for a given X/Y coordinate and a 500 feet buffer created around the coordinate.

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MDCWService

Xml webservice with utility methods. The following operations are supported:

- SaveErrorLogToTextFile
  Gets the error that occurred within the application and saves it to a text file

- SendMessage

searchSRVCClass

This web service is the general search result of PTXGIS, INTERSECTION, ZIPCODE, LANDMRKS, CommissionDistrict, Daycare, SchoolSite, CharterSchool, College, and PrivateSchool and can receive the name of an XML to add to search for a given query. The following operations are supported.

- AddressSearchUsingLocators
  This WebMethod is used search addresses using Miami Dade GIS locators

- SearchUsingCustomXMLFile
  Method accepts the user's search criteria, and an XML file name as parameters. The XML file will contain the different datasets, the applications will be using and searching for. If not xml document is provided it will search for address\intersections only. It also detects if search criteria is an address, or a folio # to avoid doing unnecessary queries

- searchSRVCmethod
  Pass user search request, the XML file name placed inside the folder XMLdynamic 'NOXML', and pass whether you want 'ALL', 'NONE', or a specific search by passing 'address', 'intersect', 'zip', 'landmarks', 'districts', 'schools', and or 'munic' delimited by semi-colon(s)(';').

Map Cache Services

Community Map

http://server.arcgisonline.com/ArcGIS/rest/services/World_Topo_Map/MapServer

Service Description: Miami-Dade County Data hosted by Esri (ArcGIS Online) as a function of ESRI's Community Base Map program, WGS84, updated monthly.

MDC Base Map Caches

- MapCache/BaseMap
- MapCache/BaseMap WGS84
- MapCache/MDCFloodZones
- MapCache/MDCImagery
- MapCache/MDCImagery WGS84

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Appendix D: Miami-Dade County GIS Central Data Repository Layers

FEATURE DATASET	FEATURE CLASS	DESCRIPTION
ActiveAsbuiltSupplementalInformation System	AASIS	Active AsBuilt Supplemental Information System
ActiveAsbuiltSupplementalInformation System	HASIS	Historical AsBuilt Supplemental Information System
BikeFacility	BikeLane	Bicycle Lanes
BikeFacility	PavedPath	Bicycle Paved Paths
BikeFacility	PavedShoulder	Bicycle Paved Shoulders
BikeFacility	WideCurbLane	Bicycle Wide Curb Lanes
Broadband	MDBroadbandNoWireline	NoWireline Broadband areas within Miami-Dade County.
Broadband	MDBroadbandInadequate	Inadequate (less 3 Mbps) Broadband Wireline Service within Miami-Dade County
Broadband	MDBroadbandProvider	Broadband Providers within Miami-Dade County
Broadband	MDBroadbandUnserved	Unserved Broadband areas within Miami-Dade County
Budget	CommunityBasedOrganization	Community Based Organization (CBO) Funded
Budget	CommunityBasedOrganization2012	Community Based Organization (CBO) Funded during

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		2011-2012 fiscal year
BuildingCertificate	CertificateOfUse	Building Certificate of Use
BuildingCertificate	CertificateOfOccupancyNComp	Certificate of Occupancy and Completion
BuildingPlanimetric	SmallBuilding	2012 Small Buildings Planimetric locations
BuildingPlanimetric	LargeBuilding	2013 Large buildings planimetric footprint
Buildings2001	SmallBuilding2001	2001 Small Buildings Planimetrics
Buildings2001	LargeBuilding2001	2001 Large Buildings Planimetrics
Buildings2005	SmallBuilding2005	2005 Small Buildings Planimetrics
Buildings2005	LargeBuilding2005	2005 Large Buildings Planimetrics
CareService	AdultCareFacility	Adult Care Facilities
CareService	AdultLivingFacility	Adult Living Facilities
CareService	Daycare	Day Care Centers within Miami-Dade County
CareService	DCFFacility	DCF Facilities
CareService	IntermediateCareFacility	IntermediateCareFacility
CareService	NursingHome	Nursing Homes
CartoLayers	CartoStreets	Cartographic Streets

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CDMP	Landuse	Future Landuse from Comprehensive Development Master Plan.
Census1990	Block90	1990 Census Blocks - Unaligned
Census1990	BlockGroup90	1990 Census Block Groups - Unaligned
Census1990	BlockStreet90	1990 Census Blocks created from Street Network
Census1990	Place90	1990 Census Places - Unaligned
Census1990	Tiger90_line	1990 Original Census Tiger Line
Census1990	Tiger90_poly	1990 Original Census Tiger Boundary
Census1990	Tract90AlignCoastal	1990 Census Tracts to Coastline - Aligned
Census1990	Tract90UnalignCoastal	1990 Census Tracks to Coastline - Unaligned
Census1990	Tract90UnalignFull	1990 Census Tracts Full Boundary - Unaligned
Census2000	Block	2000 Census Blocks - Aligned
Census2000	BlockGroup	2000 Census Block Groups - Aligned
Census2000	BlockSite	2000 Census Block Site
Census2000	DesignatedPlace	2000 Census Designated Places - Aligned

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Census2000	LowModerateBlockGroup	2000 Census Low-Moderate (Community Development) Block Groups - Aligned
Census2000	Tract	2000 Census Tracts - Aligned
Census2010	Block10_Unaligned	2010 Census Blocks - Unaligned
Census2010	BlockGroup10_Unaligned	2010 Census Block Groups - Unaligned
Census2010	DesignatedPlace10_Unaligned	2010 Census Designated Place - Unaligned
Census2010	Tract10_Unaligned	2010 Census Tract - Unaligned
Census2010	Block10_Aligned	2010 Census Blocks - Aligned
Census2010	BlockGroup10_Aligned	2010 Census Block Groups - Aligned
Census2010	DesignatedPlace10_Aligned	2010 Census Designated Place - Aligned
Census2010	Tract10_Aligned	2010 Census Tracts - Aligned
Census2010	Block10Pop	2010 Census Blocks with 2010 Census Population figures
Census2010	DesignatedPlace10Pop	2010 Census Designated Place with 2010 Census Population
Census2010	Tract10Pop	2010 Census Tracts with 2010 Census Population
Census2010	BlockGroup10Pop	2010 Census Block Groups with 2010 Census Population

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Census2010	Block10Pop_pnt	2010 Census Blocks Centroid with 2010 Census Population
Census2010	BlockGroup10Pop_pnt	2010 Census Block Groups Centroid with 2010 Census Population
Census2010	Tract10Pop_pnt	2010 Census Tracts Centroid with 2010 Census Population
Census2010	DesignatedPlace10Pop_pnt	2010 Census Designated Place Centroid with 2010 Census Population
CityDistrict	MiamiCityDistrict	City of Miami Commissioner Districts
CityDistrict	MiamiGardensDistrict	City of Miami Gardens Council Districts
CityDistrict	NorthMiamiDistrict	City of North Miami Council District
Contamination	ContaminatedSite	Contaminated Sites
Contamination	LandFill	Landfill Sites
Contamination	SuperFundSite	Superfund Sites (Hazardous Waste Facilities)
CorrectionRehabilitation	DetentionCenter	Detention Centers, Jails
CountyCityLimits	CommunityCouncil	Community Council
CountyCityLimits	CommunityCouncilSubarea	Community Council Subareas
CountyCityLimits	CountyOutline	County Outline Boundary
CountyCityLimits	MiamiDadeBoundary	Miami-Dade County, Outer Boundary

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CountyCityLimits	Municipality_anno	Municipal Boundaries (out to the water)
CountyCityLimits	Municipality_line	Municipal Boundary line (out to the water)
CountyCityLimits	Municipality_poly	Municipal Boundaries (out to the water)
CountyCityLimits	MunicipalityCoastal_anno	Municipal Boundaries (up to the coastline)
CountyCityLimits	MunicipalityCoastal_line	Municipal Boundary line (up to the coastline)
CountyCityLimits	MunicipalityCoastal_poly	Municipal Boundaries (up to the coastline)
CountyCityLimits	PANeighborhood	Major Neighborhoods Boundaries
CountyCityLimits	MunicipalAdvisoryCommittee	Municipal Advisory Committee (MAC) Boundaries.
CountyCityLimits	ProposedAnnexation	Proposed Annexation area
DERMRestricted	SaltWaterIntrusion	2008 Salt Water Intrusion Line
DERMWaterSewer	SewerExtension	DERM Sewer Extensions
DERMWaterSewer	NoticeOfReqConnection_poly	Notice of Required Water and Sewer Connection
DERMWaterSewer	SewerOverflow	Sewer Overflow Incident Cases
DERMWaterSewerRestricted	NoticeOfReqConnection	DERM Notice of Required Connections

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DevelopmentArea	CommunityDevelopmentDistrict	Community Development Districts
DevelopmentArea	CommunityRedevelopmentArea	Community Redevelopment Areas
DevelopmentArea	MinorStatisticalArea	Planning & Zoning Minor Statistical Area
DevelopmentArea	NeighborhoodRevitalizationArea	Neighborhood Revitalization Area
DevelopmentArea	TargetUrbanArea	Targeted Urban Area
DevelopmentArea	TargetUrbanAreaCorridor	Targeted Urban Areas Corridors
DevelopmentArea	NeighborhoodStabilizationProg	Neighborhood Stabilization Program
DevelopmentArea	ShorelineDevelopmentBoundary	Shoreline Development
EdgeOfPavement	EdgeOfPavement	2013 Edge of Pavement planimetric lines
Educational	CharterSchool	Charter Schools
Educational	College	Colleges and Universities
Educational	HeadStart	Headstart and Early Headstart Centers
Educational	Library	Miami-Dade County Public Libraries
Educational	MunicipalLibrary	Municipal Public Libraries
Educational	PrivateSchool	Private Schools including State Registered
Educational	BookMobile	Library BookMobile

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Electoral	CommissionDistrict	2011 Commission Districts
Electoral	ElectionCollectCenterBoundary	Election Collection Center Boundary
Electoral	ElectionCollectionCenter	Election Collection Centers
Electoral	CongressionalDistrict	2012 US House of Representatives (Congressional District)
Electoral	HouseDistrict	2012 State House Districts
Electoral	PollingPlace	Voters Polling Places
Electoral	Precinct	Voting Precincts
Electoral	PrecinctGroup	Precinct Groups
Electoral	SenateDistrict	2012 State Senate Districts
Electoral	SchoolBoardDistrict	2012 Public School Board District
Electoral	EarlyVotingSite	Elections Early Voting Site
Electoral	CommissionerDistrictOffice	Commissioner District Office
ElectoralHistory	SchoolBoardDistrict2000	2000 Public School Board District
ElectoralHistory	CommissionDistrict1992	1992 Commission Districts
ElectoralHistory	CommissionDistrict2001	2001 Commission Districts
EmergencyManagement	HurricaneBusStop	Hurricane Bus Stop Locations
EmergencyManagement	HurricaneDebrisRemoval	Hurricane Debris Removal Routes
EmergencyManagement	HurricaneEvacZone	Hurricane Evacuation Zone

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		(Storm Surge Planning Zone)
EmergencyManagement	HurricaneShelter	Hurricane Shelters
EmergencyManagement	PrimaryEvacuationRoute	Primary Evacuation Routes
EmergencyManagement	TurkeyPointRadii	Turkey Point Radius in Miles
EmergencyManagement	TurkeyPointSector	Turkey Point Sectors and Quadrants
EmergencyManagement	TurkeyPointArea	Turkey Point Plume Exposure Pathway Evacuation Area
EmergencyManagement	TurkeyPointArea_annobnd	Turkey Point Plume Exposure Pathway Evacuation Area - Boundary Annotation
EmergencyManagement	TurkeyPointArea_annoarea	Turkey Point Plume Exposure Pathway Evacuation Area - Area Annotation
EmergencyMngtHistorical	HurricaneEvacZone2003_2012	Hurricane Evacuation Zone from 2003 to 2012
EmergencyMngtRestricted	Consulate	Consulates in Miami-Dade County
EmergencyMngtRestricted	CriticalBridge	Critical Bridges in Miami-Dade County
EmergencyMngtRestricted	DialysisCenter	Dialysis Centers in Miami-Dade County
EmergencyMngtRestricted	EmergencyManagementLandmark	Emergency Management Landmarks
EmergencyMngtRestricted	Marina	Emergency Management Marinas

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EmergencyMngtRestricted	PublicWorksFacility	Emergency Management Public Works Facilities
EmergencyMngtRestricted	CanalStructure	Canal Structures
EmpowermentZone	Brownfield	Brownfield Locations
EmpowermentZone	DevelopableSite	1998 Developable Sites
EmpowermentZone	EastWardHo	1998 EastWard Ho
EmpowermentZone	EmpowermentZone_Line	1998 Empowerment Zones Lines
EmpowermentZone	EmpowermentZone_poly	1998 Empowerment Zones Boundaries
EmpowermentZone	EmpowermentZoneCTract	1998 Empowerment Zones with Census Tracts
EmpowermentZone	EnterpriseZone	2006 Enterprise Zones
Environmental	ArtificialReef	Artificial Reef Sites
Environmental	ArtificialReefSite	Artificial Reef Sites Boundary
Environmental	EnvQualityControlBoard	Environmental Quality Control Board Boundaries
Environmental	GasStation	Retail Gas Stations
Environmental	SaltWaterIntrusion95	Salt Water Intrusion line as of 95
Environmental	Soil	Soil Conversion Map
Environmental	SoilWaterConservationDistrict	Soil and Water Conservation District
Environmental Odor	OdorSource_poly	Odor location boundary
Environmental Odor	OdorSource	Odor location

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Environmental Odor	OdorStation	Odor Station location
Environmental Odor	OdorComplaint	Odor Complaints and Inspections
Environmental Odor	OdorComplaintLandmark	Odor Complaint landmarks
FBIChemical	EPA_FRSFacility	EPA FRS Facilities
FBICommunication	AMRadioAntenna	AM Radio Antennas
FBICommunication	AntennaStructureRegistration	Antenna Structure Registration
FBICommunication	BRS_EBSTransmitter	BRS EBS Transmitters
FBICommunication	CellularTower	Cellular Towers
FBICommunication	FMRadioAntenna	FM Radio Antennas
FBICommunication	InternetExchangePoint	Internet Exchange Point
FBICommunication	InternetServiceProvider	Internet Service Providers
FBICommunication	LandMobileBroadcast	Land Mobile Broadcast Transmitter Sites
FBICommunication	LandMobileCommercial	Land Mobile Commercial Transmitter sites
FBICommunication	LandMobilePrivate	Land Mobile Private Service Transmitter sites
FBICommunication	MicrowaveTower	Microwave Service Sites
FBICommunication	PagingTransmitter	Paging Transmitters
FBICommunication	TVDigitalTransmitter	Digital Television Transmitter Sites
FBIDHSInfraAsset	DHSInfraAssetListDam	DHS infrastructure asset of Dams
FBIDHSInfraAsset	DHSInfraAssetListPoint	DHS Infrastructure asset list of dams

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FBIEnergy	ElectricPowerGeneratorPlan	Electric Power Generator Plants
FBIEnergy	EnergyDistribControlFacility	Energy Distribution Control Facilities
FBIEnergy	NaturalGasReceiptDelvryPoint	Natural Gas Receipt Delivery point
FBIEnergy	PowerTransmissionLine	Power Transmission Line
FBIEnergy	PowerTransmissionSubstation	Power Transmission Substations
FBIFinance	FDICBankMainOffice	FDIC Bank Main Offices
FBIFinance	Brokerage	Brokerages
FBIFinance	CreditUnionHeadQuarter	Credit Union Head Quarters
FBIFinance	FDICInsuredBank	FDIC Insured Banks
FBIFinance	FederalReserveBank	Federal Reserve Banks
FBIFinance	FinancialProcessingCenter	Financial Processing Centers
FBIFinance	InsuranceCompany	Insurance Companies
FBIGovernment	DiplomatMissionOffice	Diplomat Mission Office
FBIHazmat	HazmatRiskMngtPlan	Hazmat Risk Management Facilities
FBIStorage	SelfStorageFacility	Self-storage facilities
FireDept	FireStation	Fire Stations
FireDept	LifeSafetyInspDistrict	Life Safety Inspection District
FireDept	MunicipalFireStation	Municipal Fire Stations

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FireDept	StationResponseServiceArea	Fire Station Response Service Areas
FireDept	CountywideClostFireStationArea	Countywide Closest Fire Station Area
FireDept	FireDistrictStationTerritory	Fire District Station Territories
FireDept	FDStationTerritoryInhabited	Fire District Station Territories clipped to the extent of inhabited areas
FireDept	FireRescueImpactFeeDistrict	Fire and Rescue Impact Benefit Fee District
FireDept	FireHydrantServiceArea	Fire Hydrant Service Areas
FloodInfrastructure	FEMAFloodZone	2009 FEMA Flood Zones
FloodInfrastructure	FEMAPanel	2009 FEMA Panel Flood Zones
FloodInfrastructure	CountyFloodCriteria	County Flood Criteria Contours
FloodInfrastructure	FEMAFloodZone1994	1994 FEMA Flood Hazard Zones
FloodInfrastructure	FEMAPanel1994	1994 FEMA Panels (Flood Zones)
FloodInfrastructure	CoastalAZone	Coastal A Zones
GeneralGovernment	Court	Courts
GeneralGovernment	CAAFacility	Community Action Agency Facilities
GeneralGovernment	GSAFleetShop	GSA Fleet Repair Shops
GeneralGovernment	GSAFleetFuelSite	GSA Fleet Fuel Sites
GeneralGovernment	MDCLeaseProperty	County Leased Properties

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GeneralGovernment	MDCOwnProperty	County Owned Properties
GeneralGovernment	PostOffice	Post Office Locations
GeneralGovernment	CityHall	City Halls within Miami-Dade County
GeoAddress	GeoAddress	Geocoded Address Locations
Geomatics	SubjectProperties	GIS layer for on-going zoning hearings
Geomatics	SubjectPropertyBuffer	GIS layer for zoning radius buffer applicable to type of zoning hearing
Geomatics	SubjectPropertyContiguous	GIS layer of properties that are contiguous (same owner/applicant) to subject property of hearing applicant
GeoNetwork	Street_Network	Routable Street Network
GeoStreets	GeoStreets	Miami-Dade County Streets
GeoStreets	ST_DADE	Miami-Dade County Streets (Coverage Structure)
GeoStreets	GeoIntersection	Geocoded Street Intersections
GeoStreets	GeoActualRanges	Street Network Actual Address Ranges
HealthCenter	CorrectionalHealthClinic	Health Clinics within Correctional Facilities
HealthCenter	FederallyQualifiedHealthCenter	Federally Qualified Health Center

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HealthCenter	FreeStandingClinic	Free Standing Clinics
HealthCenter	HIVTestingCenter	HIV Testing Center
HealthCenter	JacksonPrimaryCareCenter	Jackson Primary Care Centers
HealthCenter	MentalHealthCenter	Mental Health Centers
HealthCenter	SchoolBasedClinic	School Base Clinics
HealthService	AmbulatorySurgicalCenter	Ambulatory Surgical Centers
HealthService	DOHHealthCenter	Department of Health Center Locations
HealthService	DOHWICCenter	Department of Health Women, Infant & Children Centers
HealthService	Hospital	Hospitals
HealthStatistic	CardiovascularMortality2006	2006 Cardiovascular Mortality by ZIPCode
HealthStatistic	CLRDMortality2006	2006 Chronic Lower Respiratory Disease (CLRD) Mortality
HealthStatistic	HospitalAdmission	Hospital Admission
HealthStatistic	InfantMortality2006	2006 Infant Mortality by ZIP Code
HealthStatistic	LowBirthWeight	2006 Low Birth Weight Percentage of babies born in Miami-Dade County
HealthStatistic	MedicaidEnrolled2007	2007 Medicaid Enrollment by ZIPCode
HealthStatistic	MortalityCount2006	2006 Mortality Count

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HealthStatistic	PrenatalCare	2006 First Trimester Prenatal Care Percentage of births in Miami-Dade County
HealthStatistic	TeenBirths2006	Births by Teenaged Mothers
HealthStatistic	UninsuredByZipCode2004	2004 Uninsured by ZipCode
HealthStatistics2010	CardiovascularMortality2010	2010 Cardiovascular mortality
HealthStatistics2010	CLRDMortality2010	2010 CLRD Mortality
HealthStatistics2010	HospitalAdmission2010	2010 Hospital Admission
HealthStatistics2010	InfantMortality2010	2010 Infant Mortality
HealthStatistics2010	LowBirthWeight2010	2010 Low Birth Weight
HealthStatistics2010	MedicaidEnrolled2010	2010 Medicaid Enrolled
HealthStatistics2010	MortalityCount2010	2010 MortalityCount
HealthStatistics2010	PrenatalCare2010	2010 Prenatal Care
HealthStatistics2010	TeenBirths2010	2010 Teen Births
Historical	FocusArea1998	Focus Area
Historical	LandUse2000	2000 Landuse
Historical	UrbanDevelopmentBoundary2000	2000 Urban Development Area
Historical	UrbanExpansionArea2010	2010 Urban Expansion Area
Historical	UrbanInfillArea1998	1998 Urban Infill Area Line
Historical	LowModerateBlockGroup2000	2000 Census Low-Moderate Block Groups - aligned - Community

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		Development Block Group
Historical	UrbanDevelopmentBoundary2005	2005 Urban Development Area
Historical	UrbanExpansionArea2015	2015 Urban Expansion Area
Historical	Water1999	1999 Canals, Lakes, Streams and Coastline Planimetrics (Modified)
Historical	WaterP1999	Water Planimetrics derived from 1999 Aerial Photography
Historical	UrbanInfillArea1998_poly	1998 Urban Infill Area polygon
HistoricalPreservation	ArcheologicalSite	Archeological Sites
HistoricalPreservation	ArcheologicalZone	Archeological Zones
HistoricalPreservation	HistoricDistrict	Historic Districts
HistoricalPreservation	HistoricSite	Historic Preservation Areas
HistoricalProperty1990s	Property1999May	Property as of May1999
HistoricalProperty2000s	Property2002Oct	Property as of October 2002
HistoricalProperty2000s	Property2003Oct	Property as of October 2003
HistoricalProperty2000s	Property2006Oct	Property as of October 2006
HistoricalProperty2000s	Property2007Oct	Property as of October 2007
HistoricalProperty2000s	Property2008Nov	Property as of November 2008
HistoricalProperty2000s	Property2009Jun	Property as of June 2009

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HistoricalProperty2000s	Property2004Nov	Property as of November 2004
HistoricalProperty2000s	Property2005Oct	Property as of October 2005
HistoricalProperty2010s	Property2010Oct	Property as of October 2010
HistoricalProperty2010s	Property2011Nov	Property as of November 2011
HistoricalProperty2010s	Property2012Dec	Property as of December 2012
HistoricalProperty2010s	Property2013Jun	Property as of June 2013
Hydrology	Canal	Canals
Hydrology	Lake	Lakes
Hydrology	Stream	Streams
Hydrology	Water	Water (Canals, Lakes, Streams and Coastline) Planimetrics Modified
Hydrology	WaterP	Water Planimetrics derived from 2012 Aerial Photography
Hydrology	WaterG	Water Planimetrics derived from 2012 Aerial Photography and water body to county limits (Generalized)
Hydrology	PrimaryCanalBasin	SFWMD Primary Canal Basin (CDMP Basin)
HydrologyHistorical	WaterG2007	Water Planimetrics derived from 2007 Aerial Photography and water body to county limits (Generalized)

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HydrologyHistorical	WaterP2007	Water Planimetrics derived from 2007 Aerial Photography
IndexBoundary	DMLIndex	DML Index Boundary
IndexBoundary	GISSection	GIS Section Boundary
IndexBoundary	STLIndex_poly	STL Index Boundary
IndexBoundary	Township	MDC Township Boundary
IndexBoundary	USNationalGrid	US National Grid System for Miami-Dade
IndexBoundary	USNationalGrid1K	US National Grid System 1 Kilometer Grid Sections for Miami-Dade
LandTopography	CoastalConstructionControlLine	Coastal Construction Control Line
LandTopography	Contour	Contour
LandTopography	CountyLandG	Miami-Dade County Land (Generalized)
LandTopography	Shoreline	Shoreline
LandTopography	USGS7Quad	USGS 7.5 minute Quad Sheet
LandTopography	USGSQuad	USGS Quads
LandTopography	SouthFloridaRegion	South Florida Region
LandTopography	AmericanIndianLand	American Indian Lands and Native Entities in Florida
LUMA	LUMA_LANDUSE	Existing Landuse (light-weight)
LUMA	LUMALanduse	Existing Landuse derived from LandUse Mapping

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		Application for public.
MarineFacility	MarinaFacility	Marina Facilities
MarineNavigationalAid	MarineBuoy	Marine Buoy within Miami-Dade County
MarineNavigationalAid	MarineObservationStation	Weather Marine Observation Station
MarineNavigationalAid	MarineTransportNavigationAid	Marine Transportation Navigation Aid
MarineNavigationalAid	MooringBuoy_poly	Mooring Buoy polygon
MarineNavigationalAid	PopularMarineInlet	Popular Marine Inlet in Miami Bay area
Miami_ParcelModel	GISSectionGrid	GIS Section Boundary Aliquot parts of a Public Lands Survey System down to ten acre parts
Miami_ParcelModel	Lot_annos	Lot Annotations
Miami_ParcelModel	Lot_line	Lot Lines
Miami_ParcelModel	Lot_poly	Lot Polygons
Miami_ParcelModel	Parcel_annos	Parcel Annotations
Miami_ParcelModel	Parcel_line	Parcel Lines
Miami_ParcelModel	Parcel_poly	Parcel Polygons
Miami_ParcelModel	Subd_line	Subdivision Lines
Miami_ParcelModel	Subd_poly	Subdivision Polygons
Miami_ParcelModel	Ease_line	Easement Lines
ParkAdmin	ParkImpactFeeCollectionArea	Park Impact Fee Collection Area and Park Benefit Districts
Pavement	PavementMoratorium	Roadway Pavement Moratorium

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PlanningZoning	UrbanDevelopmentBoundary	Urban Development Boundary
PlanningZoning	UrbanDevelopmentExpansion	Urban Development and Urban Expansion Boundaries
PlanningZoning	UrbanExpansionArea	2025 Urban Expansion Area
PlanningZoning	ROZABoundary	Rock Mining Overlay Zoning Area
PlanningZoning	BirdRoadDistrict	Bird Road Design & Industrial Zoning District as defined in Chapter 33 of the Zoning Code, Section 33-278 and reflected in Ordinance #09-71.
PlanningZoning	EastEvergladesMgtArea	East Everglades Management Areas under Chapter 33B (Zoning Overlay Ordinance) of the Zoning Code
PlanningZoning	MunicipalFutureLandUse	Municipal Future LandUse
PoliceDept	MunicipalPoliceStation	Municipal Police Stations
PoliceDept	PoliceDistrict	MDPD Police Districts
PoliceDept	PoliceGrid_poly	Miami-Dade Police Grids Boundaries
PoliceDept	PolicePatrolArea	MDPD Police Patrol Areas
PoliceDept	PoliceStation	MDPD Police Stations

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PoliceDept	PoliceGrid_Anno	Police Grid Boundary Annotations
PoliceDept	PoliceLandmark	MDPD Landmarks
PoliceDept	MunicipalPoliceGrid	Municipal Police Grids
PoliceDept	PoliceCourtServiceZone	MDPD Court Service Zone
PoliceDept	PoliceDistrictUrban	MDPD Police Districts Urban Area
PoliceDept	PoliceImpactFeeDistrict	Police Impact Fee District
PoliceDept	PoliceGridUrban	Police Grids in Urban Area
PoliceRestricted	PatrolableDistrict	MDPD Patrolable Districts
PoliceRestricted	PoliceQuadrant	Police Quadrants
PoliceRestricted	SuspiciousActivityReport	Suspicious Activity Reports
PoliceRestricted	CaribbeanHeatSubject	Caribbean Heat Subject
PoliceRestricted	MDPDNeighborhood	Miami-Dade Police Department Neighborhoods
PoliceRestricted	GangMember	Gang Member data from Criminal Justice Information System
PoliceRestricted	FelonyWarrant	Felony Warrants information from the Criminal Justice Information System (CJIS)
PoliceRestricted	PreIncidentFirePlanLocation	MDFR Pre Fire Incident locations
PoliceRestricted	StreetGang	Polygon Feature class of Street Gang turfs

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PoliceRestricted	PoliceAgency	Miami-Dade County Police Agency Boundaries
PoliceRestricted	WarrantsSquad	MDPD Warrants Bureau Squads
PoliceRestricted	WarrantsArea	MDPD Warrants Bureau Squad Areas
PoliceRestricted	MunicipalPoliceLandmark	Municipal Police Landmark
PoliceRestricted	PoliceLandmarkActive	Police Active Landmarks
PoliceRestricted	PoliceTargetedPatrol	Targeted Patrol Areas
PoliceRestricted	PolicePatrolAreaUrban	MDPD Police Patrol Area Urban
POMQBCommDataset	POMQBCmConduit	Port of Miami Quality Level B Communication Conduit
POMQBCommDataset	POMQBCmMiscPolyline	Port of Miami Quality Level B Communication MiscPolyline
POMQBCommDataset	POMQBCmCopperCable	Port of Miami Quality Level B Communication CopperCable
POMQBCommDataset	POMQBCmFiberCable	Port of Miami Quality Level B Communication FiberCable
POMQBCommDataset	POMQBCmMiscPoint	Port of Miami Quality Level B Communication MiscPoint
POMQBCommDataset	POMQBCmRiser	Port of Miami Quality Level B

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		Communication Riser
POMQBCommDataset	POMQBCmPole	Port of Miami Quality Level B Communication Pole
POMQBCommDataset	POMQBCmHandhole	Port of Miami Quality Level B Communication Handhole
POMQBCommDataset	POMQBCmBuildingConnection	Port of Miami Quality Level B Communication BuildingConnection
POMQBCommDataset	POMQBCmManhole	Port of Miami Quality Level B Communication Manhole
POMQBCommDataset	POMQBCmVault	Port of Miami Quality Level B Communication Vault
POMQBCommDataset	POMQBCmPullbox	Port of Miami Quality Level B Communication Pullbox
POMQBCommDataset	POMQBCommNetwork_Junctions	Port of Miami Quality Level B Communication Network Junctions
POMQBCommDataset	POMQBConduitNetwork_Junctions	Port of Miami Quality Level B Communication Conduit Network Junctions
POMQBCommDataset	QBDuct	Port of Miami Quality Level B Communication Duct

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POMQBElectricalAsset	POMQBElRiser	Port of Miami Quality Level B Electrical Riser
POMQBElectricalAsset	POMQBElDataPoint	Port of Miami Quality Level B Electrical DataPoint
POMQBElectricalAsset	POMQBElConduit	Port of Miami Quality Level B Electrical Conduit
POMQBElectricalAsset	POMQBElMeter	Port of Miami Quality Level B Electrical Meter
POMQBElectricalAsset	POMQBElPedestal	Port of Miami Quality Level B Electrical Pedestal
POMQBElectricalAsset	POMQBElPole	Port of Miami Quality Level B Electrical Pole
POMQBElectricalAsset	POMQBElHandhole	Port of Miami Quality Level B Electrical Handhole
POMQBElectricalAsset	POMQBElManhole	Port of Miami Quality Level B Electrical Manhole
POMQBElectricalAsset	POMQBElVault	Port of Miami Quality Level B Electrical Vault
POMQBElectricalAsset	POMQBElPullBox	Port of Miami Quality Level B Electrical Pullbox
POMQBElectricalAsset	POMQBElGroundLight	Port of Miami Quality Level B Electrical GroundLight
POMQBElectricalNetwork	POMQBElectrical_Junctions	Port of Miami Quality Level B Electrical Electrical Network Junctions
POMQBElectricalNetwork	POMQBElUGPrimaryLine	Port of Miami Quality Level B

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		Electrical UGPrimaryLine
POMQBElectricalNetwork	POMQBElOHPrimaryLine	Port of Miami Quality Level B Electrical OHPrimaryLine
POMQBElectricalNetwork	POMQBElBusBar	Port of Miami Quality Level B Electrical BusBar
POMQBElectricalNetwork	POMQBElOHSecondaryLine	Port of Miami Quality Level B Electrical OHSecondaryLine
POMQBElectricalNetwork	POMQBElUGSecondaryLine	Port of Miami Quality Level B Electrical UGSecondaryLine
POMQBElectricalNetwork	POMQBElUGSwitch	Port of Miami Quality Level B Electrical UGSwitch
POMQBElectricalNetwork	POMQBElFuse	Port of Miami Quality Level B Electrical Fuse
POMQBElectricalNetwork	POMQBElGenerator	Port of Miami Quality Level B Electrical Generator
POMQBElectricalNetwork	POMQBElCapacitorBank	Port of Miami Quality Level B Electrical CapacitorBank
POMQBElectricalNetwork	POMQBElOHTransformer	Port of Miami Quality Level B Electrical OHTransformer
POMQBElectricalNetwork	POMQBElOHSwitch	Port of Miami Quality Level B Electrical OHSwitch
POMQBElectricalNetwork	POMQBElUGTransformer	Port of Miami Quality Level B

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		Electrical UGTransformer
POMQBElectricalNetwork	POMQBElDynProtDev	Port of Miami Port of Miami Quality Level B Electrical DynProtDev
POMQBElectricalNetwork	POMQBElVoltageRegulator	Port of Miami Quality Level B Electrical Voltage Regulator
POMQBSewerCollectionNetwork	POMQBSAccessManhole	Port of Miami Quality Level B Sewer AccessManhole
POMQBSewerCollectionNetwork	POMQBSSystemValve	Port of Miami Quality Level B Sewer SystemValve
POMQBSewerCollectionNetwork	POMQBSPumpStation	Port of Miami Quality Level B Sewer PumpStation
POMQBSewerCollectionNetwork	POMQBSFitting	Port of Miami Quality Level B Sewer Fitting
POMQBSewerCollectionNetwork	POMQBSewerNetwork_Junctions	Port of Miami Quality Level B Sewer Network Junctions
POMQBSewerCollectionNetwork	POMQBSGravityMain	Port of Miami Quality Level B Sewer GravityMain
POMQBSewerCollectionNetwork	POMQBSShipDischargeLine	Port of Miami Quality Level B Sewer ShipDischargeLine
POMQBSewerCollectionNetwork	POMQBSAirReleaseValve	Port of Miami Quality Level B Sewer AirReleaseValve
POMQBSewerCollectionNetwork	POMQBSMiscellaneousPipe	Port of Miami Quality Level B

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		Sewer MiscellaneousPipe
POMQBSewerCollectionNetwork	POMQBSSewerLateral	Port of Miami Quality Level B Sewer SewerLateral
POMQBSewerCollectionNetwork	POMQBSSeperatorLateral	Port of Miami Quality Level B Sewer SeperatorLateral
POMQBSewerCollectionNetwork	POMQBSForceMain	Port of Miami Quality Level B Sewer ForceMain
POMQBSewerCollectionNetwork	POMQBSManhole	Port of Miami Quality Level B Sewer Manhole
POMQBSewerCollectionNetwork	POMQBSCleanOut	Port of Miami Quality Level B Sewer CleanOut
POMQBSewerCollectionNetwork	POMQBSControlValve	Port of Miami Quality Level B Sewer ControlValve
POMQBStormCollectionNetwork	POMQBStFlowLine	Port of Miami Quality Level B Storm FlowLine
POMQBStormCollectionNetwork	POMQBStCulvert	Port of Miami Quality Level B Storm Culvert
POMQBStormCollectionNetwork	POMQBStMiscellaneousPipe	Port of Miami Quality Level B Storm MiscellaneousPipe
POMQBStormCollectionNetwork	POMQBStDitch	Port of Miami Quality Level B Storm Ditch
POMQBStormCollectionNetwork	POMQBStPipe	Port of Miami Quality Level B Storm Pipe

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POMQBStormCollectionNetwork	POMQBStManhole	Port of Miami Quality Level B Storm Manhole
POMQBStormCollectionNetwork	POMQBStInlet	Port of Miami Quality Level B Storm Inlet
POMQBStormCollectionNetwork	POMQBStMiscellaneousPoint	Port of Miami Quality Level B Storm MiscellaneousPoint
POMQBStormCollectionNetwork	POMQBStPrivatePoint	Port of Miami Quality Level B Storm PrivatePoint
POMQBStormCollectionNetwork	POMQBStormNetwork_Junctions	Port of Miami Quality Level B Storm Network Junctions
POMQBStormCollectionNetwork	POMQBWMain	Port of Miami Quality Level B Water Main
POMQBStormCollectionNetwork	POMQBWLateral	Port of Miami Quality Level B Water Lateral
POMQBStormCollectionNetwork	POMQBWControlValve	Port of Miami Quality Level B Water ControlValve
POMQBStormCollectionNetwork	POMQBWMeter	Port of Miami Quality Level B Water Meter
POMQBStormCollectionNetwork	POMQBWStructure	Port of Miami Quality Level B Water Structure
POMQBStormCollectionNetwork	POMQBWMiscPoint	Port of Miami Quality Level B Water MiscPoint
POMQBStormCollectionNetwork	POMQBWAccessManhole	Port of Miami Quality Level B Water AccessManhole

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POMQBStormCollectionNetwork	POMQBWHydrant	Port of Miami Quality Level B Water Hydrant
POMQBStormCollectionNetwork	POMQBWBackflowPreventor	Port of Miami Quality Level B Water BackflowPreventor
POMQBStormCollectionNetwork	POMQBWSystemValve	Port of Miami Quality Level B Water SystemValve
POMQBStormCollectionNetwork	POMQBWFitting	Port of Miami Quality Level B Water Fitting
POMQBStormCollectionNetwork	POMQBWServicePoint	Port of Miami Quality Level B Water ServicePoint
POMQBStormCollectionNetwork	POMQBWMiscPolyline	Port of Miami Quality Level B Water MiscPolyline
POMQBStormCollectionNetwork	POMQBWaterNetwork_Junctions	Port of Miami Quality Level B Water Network Junctions
Ports	Ports	Air and Sea Ports
Ports	Port_Anno	Air and Sea Ports Annotation
Ports	Port_poly	Air and Sea Ports Boundary
Ports	Port_Line	Air and Sea Ports Line
PropertyManagement	FLDBPRHomeOwnersAssociation	Florida Department of Business and Professional Regulation Home Owners Association (HOA)
PropertySales	PropImprovedSales2009	2009 Property Improved Sales

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PropertySales	PropImprovedSales2010	2010 Property Improved Sales
PropertySales	PropVacantSales2009	2009 Property Vacant Sales
PropertySales	PropVacantSales2010	2010 Property Vacant Sales
PropertySales	PropVacantSales2011	2011 Property Vacant Sales
PropertySales	PropImprovedSales2011	2011 Property Improved Sales
PropertySales	PropMultipleSales	Parcels with more than one sale within the year.
PropertySales	PropImprovedSales2012	2012 Property Improved Sales
PropertySales	PropVacantSales2012	2012 Property Vacant Sales
PropertySales	PropImprovedSales2013	2013 Property Improved Sales
PropertySales	PropVacantSales2013	2013 Property Vacant Sales
PropertySales	PropVacantSales2014	2014 Property Vacant Sales
PropertySales	PropImprovedSales2014	2014 Property Improved Sales
PropertySales	PropImprovedSales2015	2015 Property Improved Sales
PropertySales	PropVacantSales2015	2015 Property Vacant Sales
ProtectedLand	EELSite	DERM Environmentally Endangered Land Sites
ProtectedLand	NaturalForestCommunity	DERM Natural Forest Communities
ProtectedLand	WellFieldProtectionArea	DERM Well Field Protection Areas

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ProtectedLand	WetLandAOC	Wetland Area of Concern
ProtectedLand	CHButterflyBartramsScrub	Critical Habitat Butterfly BartramΓÇÖs Scrub-Hairstreak
ProtectedLand	CHButterflyFLLeafwing	Critical Habitat Butterfly Florida Leafwing
PublicSchool	ElementaryAttendanceBoundary	MDCPS Elementary Attendance Boundary
PublicSchool	HighAttendanceBoundary	MDCPS High Attendance Boundary
PublicSchool	MiddleAttendanceBoundary	MDCPS Middle Attendance Boundary
PublicSchool	SchoolSite	Miami-Dade Public Schools
PublicSchool	MDCPSBusStop	
PublicSchool	SchoolImpactFeeDistrict	School Impact Fee District
PublicWorks	StreetMaint	Street Maintenance (Public Works)
PublicWorks	Bridge	Bridges maintained by Public Works
Rails	MetroMover	MetroMover Routes
Rails	MetroMoverStations	MetroMover Stations
Rails	MetroRail	Metrorail Routes
Rails	MetroRailStations	Metrorail Stations
Rails	Rail	Railroads (Planimetric)
Rails	TriRail	Tri-Rail System

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Recreational	CountyOperatedPark	County Operated Park Locations
Recreational	CountyParkBoundary	County Operated Park Boundaries
Recreational	HotelMotelInn	Hotel, Motel and Inn Locations
Recreational	MunicipalPark	Municipal Managed Park Locations
Recreational	MunicipalParkBoundary	Municipal Park Boundaries
Recreational	NatlStateParkPreserve	National, State, Park Preserves
Recreational	GolfCourse	Golf Courses
Recreational	MajorMall	Major Malls
Recreational	CultureVenue	Culture Venue managed by Miami-Dade County, Cultural Affairs
SALIPhone	SALIBusinessAndResidential	SALI (Standalone Automatic Location Identifier) Business and Residential phone data
Standalone	AtlasArea	WASD District Atlas Areas
Standalone	BuildingPermit	Building Permits (Unincorporated)
Standalone	CCVIOL	Office of Neighborhood Code Compliance Violation Location
Standalone	Conduit	Conduits
Standalone	CommercialProperty	Commercial Property Locations
Standalone	EOP_2001	2001 Edge of Pavement Lines

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Standalone	EOP_cl_2001	2001 Edge of Pavement Centerlines
Standalone	FH	Fire Hydrants in the WASD Service Area (Library not completely populated - work in progress)
Standalone	HazardousMaterialSite	Hazardous Material Sites
Standalone	LANDMRKS	Landmark locations
Standalone	LPROP	Property Locations with Administrative attributes.
Standalone	LU1994	1994 Existing Land Use Boundaries
Standalone	LU1998	1998 Existing Land Use Boundaries
Standalone	MDCTelecommunicationSite	MDC Operated Telecommunication Sites
Standalone	MobileHome	Mobile Home & Trailer Park Locations
Standalone	PROP_PTX	Parcel Boundaries joined with PTX tables (No Condo Unit Information)
Standalone	PTXGIS	PTX Data converted to GIS format using Parcel Centroids
Standalone	PVT	Private Sewer Systems in the WASD Service Area (Library not completely populated - work in progress

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Standalone	ZipCode	ZIPCode Boundaries
Standalone	BLUEBOOK	Miami-Dade Blue Book location (Employee Information)
Standalone	LisPendensProperty	Properties with Lis Pendens and notice of pending action
Standalone	ALTSTREETS	USPS Alternate Street names table
Standalone	LocalBusinessTax	Local Business Tax information extracted from our Local Business Tax (LBT) database
Standalone	TblLocalBusinessTax	Local Business Tax of business that did not Geocode
Standalone	MPO	Metropolitan Planning Organization
Standalone	Ease_annos	Easement Annotations
Standalone	ROW_poly	Right of Way Polygons
Standalone	SWMEnforcementZone	Solid Waste Management Enforcement Zones
Standalone	WSAnno	WASD Street Annotations
Standalone	LocatorQrtGrid	WASD Locators Quarter Grid
Standalone	SALIBusiness	Bell South Business Phone Numbers and Locations
Standalone	SALIResidential	Bell South Residential Phone

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		Numbers and Locations
Standalone	SERVSTAT_D	Customer Service Representative 311 Service Request Location
Standalone	SEXPRED	Sexual Predator Registered Address
Standalone	SEXPRED_PROP	Sexual Predator Registered Address Parcel Boundary
Standalone	WASDIndex	WASD Atlas Index Layer
Standalone	WASDStreetAnnotation	WASD Index Streets Annotation Layer
Standalone	WellFieldProtectionHead	Utility Drinking Water Well Head Locations
Standalone	DERMPermit	DERM Permit
Standalone	WSTreatmentPlant	Miami Dade Water and Sewer Treatment Plants Locations
Standalone	ForeclosureProperty	Forclosure Properties Real Estate Owned
Standalone	TBLSPTAXLUT	PA Special Taxing Table
Standalone	TBLPANeighborhood	Miami-Dade County Property Appraiser (PA) Neighborhood Codes table
Standalone	TBLOTHERELEMENTARY	Other Elementary Schools table (that share boundary and can be attended)
Standalone	TBLSLUC	State LandUse Code (SLUC) table

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Standalone	TBLTEAMMETROOFFICE	Team Metro Offices Table
Standalone	TBLZONE	Planning and Zoning Zone Code Table
Standalone	TCONTACTS	GIS Data Contact Information
Standalone	TDOCUMENTS	GIS Data Information Document Information
Standalone	TENTITIES	GIS Data Information Application Relationship
Standalone	TENTITIES_TFEATURECLASSES	GIS Data Information Administration table
Standalone	TFEATUREDATASETS	GIS Data Information Application Dataset Foreign key
Standalone	TSTRATEGICAREAS	GIS Data Information Strategic Area Foreign Key
Standalone	ZONEDESCLUT	Zone Description Table
Standalone	ZONELUT	Miami-Dade County Zoning Code Description Table
Standalone	ZONELUT_ED_PD	Zone Look-up Table
Standalone	InfoUSABusinessData	Business Data acquired from InfoUSA
Standalone	ALTSTREETS2	USPS standard alternate street names table 2

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Standalone	ANGLEDAT	Angles table for Section printing adjustments
Standalone	CLUCLUT	County Landuse code table
Standalone	CLUCLUT_ED_PD	County Landuse code table
Standalone	DEVCODE	
Standalone	ELECTION	
Standalone	FOLNOTRS	
Standalone	FOLTRS	
Standalone	GEONAME	
Standalone	GEONAMESTTYPE	
Standalone	GEONAMESTTYPE2	
Standalone	GIS_DATA_INFORMATION	GIS Data Information table
Standalone	GIS_PUBLICDATA	Public GIS Data Information table
Standalone	GISCONDO	Condo tabular information
Standalone	GISSUBD	Subdivision depicted in GIS
Standalone	INTERSECTION	List of Valid Intersections Table
Standalone	LANDUSELUT	Miami-Dade Landuse Code table
Standalone	LUCOD	Miami-Dade Landuse Code and Category table
Standalone	LULUT	Miami-Dade Landuse Look-up table
Standalone	MPOTAB	
Standalone	MUNICLUT	Municipality Look up Table

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Standalone	PAMSTR	Property Appraiser Master Table
Standalone	PARENTWEEK	Cancelled Parent Folio relationship information
Standalone	PCOMMISSLUT	Commission District Look up Table
Standalone	PFLOODZNLUT	Flood Zone Look up Table
Standalone	PLAN_TABLE	
Standalone	PTXBLDG	Property Tax Building Table
Standalone	PTXFEA	Property Tax Extra Feature Table
Standalone	PTXLAND	Property Tax Land Table
Standalone	PTXSALEASS	Property Tax Sales Table
Standalone	PTXTABS	Property Tax Table
Standalone	SEXPRED_TAB_NAME	Sexual Predator Table
Standalone	STANDARD_DIR	Standard Directions - Street and Address Maintenance Table
Standalone	STANDARD_TYPE	Standard Street Types - Street and Address Maintenance Table
Standalone	STREETNAME	Street Names - Street and Address Maintenance Table
Standalone	STREETTYPE	Street Types - Street and Address Maintenance Table
Standalone	STREETWITHACTUALRANGES	Actual Ranges - Street and Address Maintenance Table

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Standalone	TBL2000POPBYBLOCK	2000 Census Population by Blocks table
Standalone	TBL2000POPBYBLOCKGROUP	2000 Census Population by Block Group table
Standalone	TBL2000POPBYCENSUSTRACT	2000 Census Population by Census Tract table
Standalone	TBL2000POPBYDESIGNATEDPLACE	2000 Census Population by Designated Place table
Standalone	TBLCLUC	Miami-Dade County LandUse Code (CLUC) table
Standalone	TBLCOMMISSIONDISTRICT	Commissioners and Commission Districts table
Standalone	TBLFLOODZONE	FEMA Flood Zones table
Standalone	TBLLANDMARK	Miami-Dade Landmark table
Standalone	TBLLANDUSE	Landuse table
Standalone	TBLLINETYPELUT	
Standalone	TBLMDPDLANDMARK	Miami-Dade Landmarks Table (without duplicate folios)
Standalone	TBLMUNICIPALITY	Municipal Code table
Standalone	GeoProp	Parcel Boundary with Geocoded Address Information
Standalone	ALTADDRESS	Alternate Addresses
Standalone	TBLMDCTELEPHONESITECutDate	MDC Operated Telephone Site

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		Cut_Date and Years of service
Standalone	TBLMDCTELEPHONESITEDEPT	Department Acronymns for the Telephone Site application
Standalone	TBLMDCTELEPHONESITEDID	DID Tabular information
Standalone	TBLDORCode	Department of Revenue Codes
Standalone	V_MOTOROLA_CAD_ALARM	MDFR Incidents by Alarm Number
Standalone	V_MOTOROLA_CAD_UNIT	MDFR Incidents by Unit Number
Standalone	TIME_DIMENSION	Cognos Filtering Date Matrix
Standalone	CALL_VOLUME	Cognos Subset of MDFR Alarm and Unit Tables
Standalone	MDFRUnitStation	MDFR Units and corresponding Stations in Tabular format
Standalone	ProjectSupportNewDevelopment	WASD Project Support New Development
Standalone	TBLPAPrimaryZone	Property Appraiser Primary Zone
Standalone	PA_LU_NH	Oracle lookup of table that contains the Neighborhood information.
Standalone	PA_LU_PERSONAL_X	Oracle lookup of table that contains lookup table for exemptions information
Standalone	PA_LU_QUALITY	Oracle quality lookup table

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Standalone	PA_LU_SE_PCT	Oracle Element category lookup table
Standalone	PA_LU_STRCT_EL	Oracle Structural Element lookup table
Standalone	PA_LU_STRCT_EL_TP	Oracle Structural Element and types lookup table
Standalone	PA_LU_SUB	Oracle lookup of table that contains the Subdivision information
Standalone	PA_LU_TAX_DIST	Oracle lookup of table that contains lookup table for special taxing districts.
Standalone	PA_LU_TAX_ED	Oracle Exemption lookup table
Standalone	PA_LU_TAX_SPCL_DIST	Oracle lookup of table that contains Special Taxing Districts
Standalone	PA_LU_TAX_SPCL_TP	Oracle lookup of table that contains the special taxing districts and types.
Standalone	PA_LU_TENANCY	Oracle Tenancy lookup table
Standalone	PA_LU_XFOB	Oracle table of Property Appraisal Extra Features lookup table
Standalone	PA_OWNER	Oracle lookup of table that contains the List of Owners by folio
Standalone	PA_P_SPCL_DIST	Oracle table that contains the special

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		Taxing Districts like Lighting by folio
Standalone	PA_PARCEL_REL	Oracle table that contains the parcel Relationship file for Back Assessments
Standalone	PA_PARCELDATA	Oracle table that contains the representation to the file you currently get from PTX
Standalone	PA_PERSONAL_X	Oracle table that contains the Percent of Ownership of the Exemptee
Standalone	PA_SALES	Oracle table that contains the sales information
Standalone	PA_SITE	Oracle table that contains the property address
Standalone	PA_TENANCY	Oracle table that contains the Percent ownership
Standalone	V_LEGAL_LN	View of the PA_LEGAL_IN table
Standalone	V_OWNER	View of the PA_Owner table
Standalone	V_PARCEL_REL	View of the PA_Parcel_Rel table
Standalone	V_PARENTWEEK	
Standalone	V_SALES	View of the PA_Sales table
Standalone	V_SITE	View of the PA_Sites table

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Standalone	V_TENANCY	View of the PA_Tenancy table
Standalone	V_PTXTAB	View that combine:PA_Parcel data (TABLE), V_Owner, V_Sales, V_sites and V_Legal_IN views
Standalone	TBL_ZONES_DADE	Zoning codes for Unincorporated Miami-Dade County areas.
Standalone	WaterDonationLine	Water Donation Line SDE view
Standalone	SewerDonationLine	Sewer Donation Line SDE View
Standalone	PA_COLUMNINFO	Oracle table that contains the source name, columns and description of the all PAPublic
Standalone	PA_ASSESSMENT_REDUCTIONS	Oracle table that all county wide assessment reductions identified by folios
Standalone	PA_LEGAL_LN	Table of Miami-Dade County county-wide Property Legal description identified by Folio
Standalone	PA_LND_A	Oracle table that contains all county wide agriculture land identified by folios.
Standalone	PA_LND_C	Oracle table that contains all county wide common land identified by folios

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Standalone	PA_LND_M	Oracle table that contains all county wide market land identified by folios
Standalone	PA_LU_ASSESSMENT_REDUC TIONS	Oracle lookup table that contains all assessment reduction
Standalone	TBLCountyDepartmentNOffice	County Departments and Offices table
Standalone	TBLUnincorporatedZoneDistrict	Table of relevant zoning parameters for Unincorporated Miami Dade Zoning Districts
Standalone	TblBldgPermitAppType	Building Permit Application Type code and description
Standalone	TblBldgPermitPropUse	Building Permit Property Use Code and Description
Standalone	TBLMDFRUnitStation	Table of Miami-Dade Fire Rescue Unit, Station and Battalion.
Standalone	PA_LU_BASE_RATE	Oracle lookup table that contains the Base Rate Code identified by folios
Standalone	PA_LU_CITY	Oracle lookup table that contains all Municipality
Standalone	PA_LU_COND	Oracle lookup table that contains condo information.
Standalone	PA_LU_CPLX_AMENITY	Oracle lookup table that contains Special Taxing

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		Districts like Lighting by folio
Standalone	PA_LU_DOR	Oracle DOR lookup table
Standalone	PA_LU_DPR_98_TBL	Oracle lookup table that contains the depreciation, year and percent of the house
Standalone	PA_LU_IMPR	Oracle lookup table that contains the improvement of the house
Standalone	PA_LU_LND_USE	Oracle lookup table that contains the CLUC & SLUC
Standalone	PA_LU_LND_ZONE	Oracle lookup of table that contains the Primary and Secondary Zone.
Standalone	PrelimSPCtbl	WASD Preliminary Water Service Point Connection lookup table
Standalone	PA_LU_QU_CD	Oracle table of Property Appraisal Qualification Description Coded
Standalone	PA_BLD	Oracle table of Property Appraiser Building Information
Standalone	PA_XFOB	Oracle table of Property Appraisal Extra Features
Standalone	TblLocalBusinessTaxCategory	Local Business Tax Category code and name table
Standalone	tblCBOGeneralFundSupport	Community Based Organization Awarded General

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		Fund Support for FY 2013_2014
Standalone	TblLocalBusinessTaxClass	Local Business Tax Class code and name table
Standalone	CRITICALLOCATIONS	Collection of Critical Locations
Standalone	TblCertificateOfOccpncyNComp	Table of Certificate of Occupancy & Completion unmatch records
Standalone	TblCertificateOfUse	Table of Certificate of Use unmatch records
Standalone	CRITICALLOCATIONS_POLY	Collection of Critical Location Boundaries
Standalone	tblYouthCommission	Table of County Commission selected Youth Commissioners
SurveyControlPoint	HorizontalControlPoint	Surveyed Horizontal Control Points
SurveyControlPoint	VerticalControlPoint	Surveyed Vertical Control Points
Telephone	MDCTelephoneSite	MDC Owned and Operated Telephone Systems sites
Telephone	TelephoneCentralOffice	AT&T Central Offices
TMAdmin	CommissionDistrictBlockGroup	Office of Neighborhood Compliance Commission District Block Groups
TMAdmin	NeighborhoodCodeOfficer	Office of Neighborhood

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		Compliance Code Officers
TMAdmin	TMBoundary	Office of Neighborhood Compliance Boundaries
TMAdmin	TMSite	Office of Neighborhood Compliance Regional Offices
TMService	CrimeWatchArea	Office of Neighborhood Compliance Crime Watch Area
TMService	HomeOwnerAssociation	Office of Neighborhood Compliance Home Owners Association
TMService	MinimumHousing	Office of Neighborhood Compliance Minimum Housing
TMService	OutReach	Office of Neighborhood Compliance Out-Reach
TMService	PainterTerritory	Office of Neighborhood Compliance Painters Territory Boundaries
TMService	BNCTowZone	BNC Tow Zones
TrafficAnalysis	TAD1992	1990 Traffic Analysis Districts
TrafficAnalysis	TAZ1992	1990 Traffic Analysis Zones
TrafficAnalysis	TAZ2000	2000 Traffic Analysis Zone

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TrafficAnalysis	TrafficAnalysisDistrict2010	2010 Traffic Analysis District
TrafficAnalysis	TrafficAnalysisZone2010	2010 Traffic Analysis Zone
TrafficAnalysis	TrafficAnalysisZone2010Emp	Traffic Analysis Zone 2010 with estimated 2010 Employment / Workers
TrafficAnalysis	TrafficAnalysisZone2010Pnt	Traffic Analysis Zone 2010 - Centroid point with estimated 2010 Employment / workers
TrafficConcurrency	MDCTrafficCountStation	Miami-Dade County, Traffic Count Station
Transportation	MajorRoads	Major Streets & Highways
Transportation	BusRoutes	Bus Routes
Transportation	BusStops	Bus Stops
Transportation	Highway	Main Highways
Transportation	Highway_anno	Highway Annotation
Transportation	RoadImpactFeeDistricts	Road Impact Fee Districts
Transportation	TrafficSignals	Traffic Signals
Transportation	MajorRoads_anno	Major Streets & Highway Annotations
Transportation	TPKMileMarkers	Turnpike Mile Markers
WASDCIS	CISCustomer	WASD Customer Information System Customer Location
WASDCIS	WSServicePoint	WASD CIS Customer Service location

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WASDConsentDecree	GISMaintProjectTracking	Gis Maintenance Project Tracking
WASDFacility	MeterReadingOffice	WASD Meter Reading Offices
WASDFacility	FleetGarage	WASD Fleet Garage
WASDFacility	MaintenanceFacility	WASD Maintenance Facility
WASDGAMSVersion	GAMSSewerVersions	GAMS Sewer Version within Sewer Map Index
WASDGAMSVersion	GAMSWaterVersions	GAMS Water Version within Water Map Index
WASDIncident	SewerSpill	Sewer Spill Incidents
WASDMaintenanceArea	DayMeterTruck	WASD Meter Day Truck Areas
WASDMaintenanceArea	MeterReadingDistrict	WASD Meter Reading District Areas
WASDMaintenanceArea	NightMeterTruck	WASD Night Meter Trucks Area
WASDMaintenanceArea	PumpStationService	WASD Pump Station Service Areas
WASDMaintenanceArea	RepairCrew	WASD Repair Crew Areas
WASDMaintenanceArea	SaturdayMeterTruck	WASD Saturday Meter Truck Areas
WASDMaintenanceArea	SewerCollectionService	WASD Sewer Collection Service Areas
WASDMasterPlanning	CapacityStudyArea	WASD Capacity Study Area
WASDMasterPlanning	ConsConnChargesDistrict	WASD Construction Connection Charges District

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WASDNewCustomer	Agreement	WASD New Customer Agreements
WASDNewCustomer	OrdinanceLetter	WASD New Customer Ordinance Letter
WASDNewCustomer	WASDAgreement	WASD New Customer Agreement SDE view
WASDNewCustomer	WASDLetterAvailability	WASD New Customer Letters of Availability SDE view
WASDNewCustomer	WASDOrdinanceLetter	WASD New Customer Ordinance Letter (Compliance letter for wholesale water and/or sewer customers development for payment of connection charges)
WASDNewCustomer	WASDVerificationForm	WASD New Customer Verification Forms SDE view
WASDNewCustomer	VerificationForm	WASD Verification Forms
WASDNewCustomer	LetterAvailability	WASD Letters of Availability
WASDNewCustomer	Plat	WASD Plats
WASDNewCustomer	WellConnection	WASD Well Connection
WASDPcts	PCTSLine	Project Control and Tracking System Lines

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WASDPcts	PCTSPoint	Project Control and Tracking System Points
WASDPsBasin	PSBasinWithoutVolumeCustomer	WASD Pump Station Basin Areas Without Volume Customer
WASDPsBasin	PumpStationBasin	WASD Pump Station Basin Areas
WASDPsBasin	PumpStationBasinOrig	WASD Pump Station Basin Original Areas
WASDRegion	SMapBookIndex	Miami Dade WASD Sewer Map Book (Atlas page) Index - Atlas layer
WASDRegion	WMapBookIndex	Miami Dade WASD Water Map Book (Atlas pages) Index layer
WASDServiceArea	SewerServiceArea	WASD Sewer Service Areas
WASDServiceArea	WaterServiceArea	WASD Water Service Areas
WASDSewerMerge	OcSewerAsBuilt	Sewer AsBuilt information with AsBuilt paths
WASDSewerMerge	SewerAsBuilt	Sewer AsBuilt information
WASDSewerMerge	SewerLine	Sewer Lines in the network model
WASDSewerMerge	SewerLineNotNet	Misc Sewer Lines not in the network model
WASDSewerMerge	SewerNode	Sewer points (Manhole, Valves, etc)

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WASDSewerMerge	SewerNodeNotNet	Misc Sewer Points not in the network model
WASDSPConnection	ServicePointConnection	WASD Service Point Connection
WASDSPConnection	wLateralLine	WASD Later Lines
WASDSPConnection	wMain	WASD Main
WASDSunshine811	SunshineOneCallTicket	WASD Sunshine One Call Ticket
WASDSunshine811	HSunshineOneCallTicket	Historical Sunshine One Call Tickets
WASDTreatmentPlanDistrict	WasteWaterDistrict	WASD Waste Water Division Boundary
WASDTreatmentPlanDistrict	WaterDistrict	WASD Water Division Boundary
WASDTreatmentPlanDistrict	WaterDistrictFuture	Water District Future Service Areas
WASDUtilityDonation	WASDDonationSLine	Donations Sewer Lines
WASDUtilityDonation	WASDDonationSPoint	Donations Sewer Points
WASDUtilityDonation	WASDDonationWLine	Donations Water Lines
WASDWaterMerge	OcWaterAsBuilt	Water AsBuilt information with AsBuilt paths
WASDWaterMerge	WaterAsBuilt	Water AsBuilt information
WASDWaterMerge	WaterLine	Water Lines in the network model
WASDWaterMerge	WaterLineNotNet	Misc Water Lines not in the network model
WASDWaterMerge	WaterNodeNotNet	Misc Water Points not in the network model

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WASDWaterMerge	WaterNode	Miami Dade Water and Sewer Departments Water Node in Network data
WASDWaterResource	ComprehensiveDevMasterPlan	WASD Comprehensive Development Master Plan
WASDWaterResource	DevImpactCommittee	WASD Development Impact Committee
WASDWaterResource	DevRegionalImpact	WASD Development Regional Impact
WASDWaterResource	TaxingDistrict	WASD Taxing District
WASDWaterResource	UrbanDevBoundaryCommittee	WASD Urban Development Boundary Committee
WASDWaterResource	WaterSupplyWaterServiceArea	Water Supply to Water Service Area
WASDWaterResource	NorthMiamiWaterSupplyByWASD	North Miami Water Supplied By WASD
WASDWaterSPC	PrelimSPC	WASD Preliminary Water Service Point Connection
WASDWaterSPC	PrelimWSrvlne	WASD Preliminary Water Service Line
WASDWaterTreatmentPlantFacility	HIJPWellContract	Hialeah John Preston Well Contract
WASDWaterTreatmentPlantFacility	SDadeWellContract	South Dade Well Contract
WASDWaterTreatmentPlantFacility	AOWellContract	WASD Alexander Orr Facility Well Contract

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WASDWaterTreatmentPlantFacility	AOBuildingContract	Alexander Orr Building Contracts
WASDWaterTreatmentPlantFacility	AOPlantFacility	Alexander Orr Facilities
WASDWaterTreatmentPlantFacility	AOWTPChemOtherLine	Alexander Orr Chemical Other Lines
WASDWaterTreatmentPlantFacility	AOWTPWaterLine	Alexander Orr Water Lines
WASDWaterTreatmentPlantFacility	HIBuildingContract	Hialeah Building Contracts
WASDWaterTreatmentPlantFacility	HIPlantFacility	Hialeah Facilities
WASDWaterTreatmentPlantFacility	HIWTPChemOtherLine	Hialeah Chemical Other Lines
WASDWaterTreatmentPlantFacility	HIWTPWaterLine	Hialeah Water Lines
WASDWaterTreatmentPlantFacility	JPBuildingContract	John Preston Contracts
WASDWaterTreatmentPlantFacility	JPPlantFacility	John Preston Facilities
WASDWaterTreatmentPlantFacility	JPWTPChemOtherLine	John Preston Chemical Other Lines
WASDWaterTreatmentPlantFacility	JPWTPWaterLine	John Preston Water Lines
WasteManagement	DumpSite	Solid Waste Management Sites (Landfill , Trash/Recycling Centers)
WasteManagement	GarbagePickupRoute	Solid Waste Management Garbage Pickup Routes Boundaries
WasteManagement	RecyclingRoute	Curbside Recycling Route Boundaries
WasteManagement	RecyclingZone	Curbside Recycling Zones

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WasteManagement	WCSBulkyBook	Waste Collection Service Bulky Books
WasteManagement	DSWMServiceArea	Service Area for the Department of Solid Waste Management
WasteManagement	WCSArea	Waste Collection System Areas
WasteManagement	WCSZipcode	ZIPCode Zones used in WCS-GIS Daily batch jobs
WTDDDataset	DistWaterMain	WASD Distribution Water Main discrepancy
WTDDDataset	WNRevision	WASD WN Revision
WTDDDataset	WMGeneral	WASD WM General
WTDDDataset	WMABRevision	WASD WMAB Revision
WTDDDataset	DistWaterNode	WASD Distribution Water Node
WTDDDataset	DistWaterMeter	WASD Distribution Water Meter
Zoning_Model	Zone_line_I	Municipal zone boundaries and overlays derived from the Zoning
Zoning_Model	Zone_poly_I	Municipal zone areas and overlays derived from the Zoning
Zoning_Model	Zone_poly_U	County zone boundaries and overlays derived from the Zoning
Zoning_Model	MunicipalZone	Municipal Zones

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Exhibit 2 – DRAFT – Standard Offender360 End User License/Maintenance Agreement (EULA)

TRIBRIDGE Offender360

End User License and Maintenance Agreement

The undersigned Customer has entered into this end-user license and maintenance agreement with TRIBRIDGE (Contracting as Tribridge Holdings, LLC, a Delaware limited liability company, the "Licensor"), on the terms set forth below:

Customer Name	County of Miami-Dade, Florida
Licensed Software	TRIBRIDGE Offender360
Number of Copies	One (1)
Number of Users	Up to a Maximum of 3,000 named Offender360 users
License Term	Perpetual
Period	5 Years
Effective Date	Upon execution of this agreement

The parties hereby agree to be bound by the terms set forth above and the terms on the following pages, effective as of the date set forth above.

Tribridge Holdings, LLC

County of Miami-Dade, Procurement Management Division

_____
(Licensor Signature)

_____
(Licensee Signature)

_____
(Print Name)

_____
(Print Name)

_____
(Title)

_____
(Title)

_____
(Date)

_____
(Date)

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9.3 **Disposition of software on termination.** Upon the expiration or termination of this EULA for any reason, the license and all other rights granted to Licensee hereunder shall immediately cease, and Licensee shall: (i) uninstall and return the Software (including all third party software licensed or provided to Licensee by Licensor) to TRIBRIDGE together with all reproductions and modifications of the Software and all copies of any documentation, notes and other materials respecting the Software; (ii) purge all copies of the Software or any portion thereof from any computer storage device or medium on which Licensee has placed or has permitted others to place the Software, including copies of the Software made for archival and backup purposes; and (iii) provide DXC a written certification that Licensee has complied with all of its obligations under this Section.

10 **Miscellaneous.**
The parties are independent contractors, and nothing contained in this EULA shall be construed or implied to create the relationship of partners, joint venturers, agent and principal, employer and employee, or any relationship other than that of independent contractors. DXC shall retain the right to perform work for others, including competitors of Licensee,

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during the term of this EULA. Neither this EULA, nor any provision thereof, can be modified or waived in any way, except by an agreement in writing signed by each of the parties affected thereby, expressly consenting to such modification or waiver. This EULA shall in all respects be interpreted, enforced and governed by and under the laws of the State of Florida exclusive of its conflict of laws principles. The parties hereby agree that the venue for the resolution of any dispute arising from this EULA, subject to the arbitration provisions set forth herein, is proper in Hillsborough County, Florida. "Affiliate" shall mean any entity that directly or indirectly through one or more intermediaries, controls, or is controlled by, or is under common control with the party.

Exhibit 3 – DRAFT: Customer Care Unlimited Support Plan

The scope, assumptions, approach, and costs presented in this agreement represent TRIBRIDGE (contracting as Tribridge Holdings, LLC) proprietary experience and knowledge. This agreement should be viewed by The County and TRIBRIDGE only and should not be shared, emailed, or provided to any other entity.

TRIBRIDGE will provide direct support for all products included in the scope of work. In the event TRIBRIDGE cannot troubleshoot, we will contact the software provider on behalf of the customer to resolve any outstanding questions, and communicate the resolution back to the customer.

Scope of Customer Care - Services

The County may request an unlimited number of support requests for the following services. These are offered in support of the application listed above. The examples provided under each of the following headings are intended to provide a list of reference activities for each heading. The lists are not meant to be all inclusive.

Processing Issue (break/fix)

This service ensures that we are responding to issues that arise during the normal course of business. Examples include but are not limited to the following topics:

a) An error message is appearing in a window and the user cannot determine the root cause.
b) A user cannot log in or lacks the appropriate security to complete a process.
c) A user enters data and cannot save the data, or "saved" data appears to be missing.
d) A print job or a workflow will not execute.
e) An error message is appearing in a window and the user cannot determine the root cause.
f) A user cannot log in or lacks the appropriate security to complete a process.
g) A user enters data and cannot save the data, or "saved" data appears to be missing.

"How Do I…"

TRIBRIDGE will work with your users to answer generic, "out of the box" functional questions. Our goal is to assist your users with functional questions that will allow them to take advantage of inherent functionality within the application. Please note this is not meant to be "User Training", nor is it meant to be "process engineering". We have provided some common "How do I" questions below to set expectations for the type of questions that will be answered:

a) How do I open or close a fiscal period? How do I book a wire transaction?
b) How do I delete a stuck user? How do I change a user's permissions?

Database Restore from a Recent Backup

In the event of system data loss due to user error or some other event, TRIBRIDGE will work with the customer to perform a full database restore if the customer has a recent backup readily available.

Important Note: TRIBRIDGE relies on The County to provide a valid database backup. Any issues that result from the restoration of an invalid or corrupt database are the responsibility of The County.

Out of Scope Services

TRIBRIDGE offers Project based professional services for your organization's Dynamics needs that are in excess of the scope of this agreement. In general, any services deemed to be too complex, risky or lengthy will be defined and performed under a separate Statement of Work.

Important Note - Professional Services required or requested outside the scope of this agreement may <u>not</u> be exchanged for services within this agreement.

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1. *Service Packs and Hotfixes – Applying service packs and hotfixes.
2. *Upgrades - New version upgrade are performed as a separate project.
3. *Enhancements - Any product enhancements to the system (e.g. screen or report changes, making fields required, building a workflow, creating an import/export routine, etc.). This is covered under the Maintenance/Warranty included in your Maintenance Program. See Offender360 End User License Agreement (EULA).
4. New Integrations - Any new integration that needs to be created requires design, build and test time, thereby resulting in an effort that is outside the scope of Customer Care.
5. Additional User Training - Any user training in excess of the "How do I" described above.
6. New Module Implementation - The process required to select, configure, train and implement any new module or ISV (e.g. Document Management).
7. Changes to Integrations not Built by Tribridge- Any integration that has not been designed, developed and tested by TRIBRIDGE will be supported by our Professional Services team on a "best effort" basis. Please note that situations may arise where documentation for the existing integration does not exist, and some level of documentation may needs to be created prior to making the change.
8. Resolving user generated data problems - Situations arise where a user has inadvertently affected data integrity or quality and remediation efforts need to take place. Often times the situation can only be resolved by running a Microsoft Dynamics utility, importing historical data, performing manual data entry, or by updating records via direct table changes in SQL. All of these remediation activities are beyond the scope of this agreement. The only exception is the "Data Restore from a Recent Backup" scenario listed in the "In Scope" section of this agreement.
9. Self-Upgrades - Remediation or system failures due to the customer performing a self-upgrade, service pack or hot fix.
10. Hosting / Cloud Computing - Any issues related to hosting or "cloud" computing environments (except for TRIBRIDGE Concerto).
11. Disaster Recovery Services – includes any data restoration activities with exception of the scenario described under "Data Restore from a Recent Backup".
12. Database tuning and optimization
13. Workstation Installations
14. Server Operating System Installations

Software Updates, Hot Fixes, software patches and new versions of the software are not included under this support agreement, but are made available to Customer, as part of their participation in the Software Maintenance Plan. See the Offender360 End User License and Maintenance Agreement for details.

Assumptions

The following assumptions have been made in regard to this agreement:

1. Partner of Record – TRIBRIDGE is and will remain The County 's Partner of Record for the Dynamics products listed above. If The County intends to change the Partner of Record, TRIBRIDGE requires 30 days advance notice and requires that the terms presented in this agreement be re-evaluated at that time. If TRIBRIDGE is not the Partner of Record, we may not have access to information needed to resolve support issues in a timely manner.

2. Data Reconciliation and Validation - With client approval, TRIBRIDGE will perform steps to resolve issues using Microsoft recommended tools, SQL Scripts and best practice techniques. The County is responsible for verifying the data upon completion of any changes to their system and reporting any issues to TRIBRIDGE within a 24 hour period following the support incident.

3. Microsoft and ISV Support – TRIBRIDGE will maintain an active Microsoft and ISV support contract, as part of our "Offender360 Solution Bundle" and will utilize Microsoft and ISV support incidents on behalf of The County when required to resolve an issue.

4. <u>Unsupported Versions</u> – TRIBRIDGE will use a "best effort" approach to resolving issues with versions of the product that are no longer supported by Microsoft. Note the final resolution may require a work-around.

5. <u>Source Code</u> – The County is responsible for maintaining copies of all source code if applicable and will make it available to TRIBRIDGE as needed. If source code changes have been made to the application we will assist The County to the best of our ability but may not be able to effectively resolve your issues.

6. <u>Third Party Changes</u> - The County will provide full disclosure to TRIBRIDGE if any third party provides Microsoft Dynamics related services to the County. Our ability to support your applications may be hindered if other third parties have made changes to your installation.

7. <u>Term Cost Review</u> – At the end of the support agreement term (36 months) from the system Go-Live date. TRIBRIDGE will review the support plan to ensure that the level of effort criteria for unlimited support plan costs are equitable. Unlimited support agreement costs may increase in subsequent years based on previous year's usage, unless multiple year support is contracted in advance. Costs will not exceed a 3% increase.

8. <u>Remote Access</u> - All work will be performed remotely. This agreement and the support services herein are contingent on The County's permission to allow TRIBRIDGE to have secure remote access into The County's network. TRIBRIDGE remote support tools run via a downloaded applet over HTTP. Exceptions to use of this tool should be in place with your IT staff prior to your engagement with TRIBRIDGE.

9. <u>On Line Portal</u> - The Online Portal, including without limitation, all content, is the sole and exclusive property of TRIBRIDGE. TRIBRIDGE shall not be liable for any unauthorized access or use of the Support System or for any unauthorized access or use County's transmission facility, computer system, equipment or data. TRIBRIDGE reserves the right to update, modify, suspend access or discontinue the Support System, in whole or in part, from time-to-time.

10. TRIBRIDGE reserves the right to suspend services if payment in full is not made within a reasonable amount of time.

Support Hours, Mechanisms and Response SLA

Support Hours

TRIBRIDGE support hours under this agreement for Customer are 24/7 x 365.

Support Request Mechanisms

TRIBRIDGE provides the following mechanisms for contacting Customer Care to initiate a request:

1. **Phone** – Support requests can be made by telephone (Toll Free 877-874-1114) to the Customer Care team. All support requests are logged into TRIBRIDGE's service database for tracking and follow-up purposes. Users should always call urgent support requests into the toll free number above.

2. **Email** – Users can make support requests via email (Support@Tribridge.com). All email requests are logged into TRIBRIDGE's service database for tracking and follow-up purposes. Users should not use email to report urgent issues.

3. **Online** - Support requests can be entered directly into the TRIBRIDGE service database via our on line portal (https://esupport.tribridge.com). Users should always call urgent support requests into the toll free number above.

Please provide the following information at a minimum when requesting support services:

- o Organization Name
- o Phone Number
- o Contact Name
- o Description of the issue
- o Priority of your request

Response SLA

The County may contact the TRIBRIDGE Customer Care team for support requests via web portal, email address or if urgent, call the Customer Care toll free phone line. The Customer Care team will open a support request in the TRIBRIDGE ticketing system and assign a priority. Due to the differing priorities in why a customer might call Customer Care for support, TRIBRIDGE has structured a response plan to address the most critical issues first. When the County opens a support request, they should indicate the priority of the request by using the priority type described below. The Customer Care team will assign the actual priority on the ticket.

Issue Definition When Submitting Support Incidents:

1. Critical:	Defects that could (or did) cause disastrous consequences for the system in question (e.g., critical loss of data, critical loss of system availability, critical loss of security, critical loss of safety, etc.). The system or a major process of the system is completely down
2. High:	Defects that could (or did) cause very serious consequences for the system in question (e.g., a function is severely broken, cannot be used and there is no workaround). System or a major process of the system is impacting users.
3. Medium:	Defects that could (or did) cause significant consequences for the system in question - A defect that needs to be fixed but there is a

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workaround (e.g., function is badly broken but workaround exists). System is impacted for one or more users.

4. Low:
Defects that could (or did) cause small or negligible consequences for the system in question. Easy to recover or workaround (i.e., misleading error messages, displaying output in a font or format other than what the customer desired, simple typos in documentation, bad layout or misspelling on screen, and so forth).

5. Support
Suggestions to make a change to the system that is not in the signed requirements. No SLAs are provided for enhancements.

Service Level Agreement Definitions

Issue Level	Service Level Agreement (SLA)
Critical	The Customer Care team shall respond by telephone or email within **one (1) hour**.
High	The Customer Care team shall respond by telephone or email within **one (1) hour**.
Medium	The Customer Care team shall respond by telephone or email within **six (6)** *business* hours.
Low	The Customer Care team shall respond by telephone or email within **twenty four (24)** *business* hours.
Support	The Customer Care team shall respond by telephone or email within **twenty four (24)** hours.

Authorized Contacts

The County must select authorized representatives ("Authorized Contacts") to work with the Customer Care team. All support requests must route through these authorized contacts. The County may select a new Authorized Contact by providing TRIBRIDGE their contact information with prior notice, and must immediately notify TRIBRIDGE in writing, to deactivate any Authorized Contact from having access to the Online Portal. Additional Authorized Contacts may be requested.

Authorized Contact

　　Name:

　　Phone:

　　Email:

Authorized Contact

　　Name:

　　Phone:

　　Email:

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Commitment

Period of Service

This agreement is for a period of XXX months, commencing on the system Go-Live date, unless The County affirmatively terminates it in accordance with the conditions set forth in this agreement.

Renewal and Fee Escalation

TRIBRIDGE will inform The County 90 days in advance of the renewal date. At TRIBRIDGE's discretion, a renewal agreement will be presented to the customer. TRIBRIDGE reserves the right to increase the fee upon renewal. Any fee increase will be communicated to The County prior to executing a new agreement.

Opt-Out/Termination

In the event that TRIBRIDGE repeatedly fails, following written notice from The County of such failure, to comply with the service level requirements set forth in this Agreement as determined by The County in its reasonable determination, The County may, upon providing written notice to TRIBRIDGE, terminate this Agreement if any such failure or breach continues and has not been cured or remedied within a period of thirty (30) days following written notice. Either party may terminate this Agreement upon sixty (60) days written notice.

Any termination of this Agreement shall not automatically terminate the Master Services Agreement. The termination rights set forth in this Agreement supplement the termination rights set forth in the Master Services Agreement.

Refunds

With the exception of a material breach of this Support Agreement by TRIBRIDGE which is not cured within thirty (30) days, in no other event shall any Customer receive a refund, rebate or credit for any amount paid or payable to TRIBRIDGE. Any refund provided will be at the pro-rated amount paid for the remainder of the then-current agreement. In the event of termination by The County without cause, The County shall not be entitled to any refund of any monies paid.

Entire Agreement

This document contains the entire support agreement and there are no other promises or conditions in any other support agreement whether oral or written concerning the subject matter of this agreement. This support contract supersedes any other written or oral support agreement between the parties for TRIBRIDGE Customer Care services.

Cost

The contract price of _____ is for _____ months, payable per year for 5 years, for the support services rendered in the Scope of Services sections above. Fees for the support services are due in full per the terms and conditions of the Agreement between TRIBRIDGE and Customer at the beginning of the support service term.

Exhibit 4 – Proposed Project Timeline

For the Excel version of the Proposed Project Timeline, please see the attachment included with our submission.

Exhibit 5 – Hardware and Software Requirements

1. This Dynamics 365 (on-premises) version requires the following software:
   - Microsoft Windows Server
   - A Microsoft Windows Server Active Directory infrastructure
   - An Internet Information Services (IIS) website
   - Claims-based security token service (required for Internet-facing deployments)
   - Microsoft SQL Server
   - Microsoft SQL Server Reporting Services
   - Microsoft Exchange Server or access to a POP3-compliant email server (required for email tracking)
   - SharePoint Server (required for document management)
   - Supported device, Microsoft Dynamics 365 app, or web browser, such as later versions of Internet Explorer or the latest versions of Apple Safari, Google Chrome and Mozilla Firefox
   - Microsoft Office for Microsoft Dynamics 365 for Outlook and other Office integration features

2. Dynamics 365 Server Requirements. The following table lists the minimum and recommended hardware requirements for this version of Microsoft Dynamics 365 Server running in a Full Server configuration. These requirements assume that additional components such as Microsoft SQL Server, Microsoft SQL Server Reporting Services, Microsoft SharePoint, or Microsoft Exchange Server aren't installed or running on the system.

Component	*Minimum	*Recommended
Processor	x64 architecture or compatible dual-core 1.5 GHz processor	Quad-core x64 architecture 2 GHz CPU or higher such as AMD Opteron or Intel Xeon systems
Memory	4-GB RAM	8-GB RAM or more
Hard disk	10 GB of available hard disk space	40 GB or more of available hard disk space

3. Microsoft SQL Server Requirements. You need Microsoft SQL Server database engine and Microsoft SQL Server Reporting Services to install and run on-premises versions of Microsoft Dynamics 365 Server. The following table lists the minimum and recommended hardware requirements for Microsoft SQL Server. These requirements assume that additional components such as Microsoft Dynamics 365 Server, Microsoft SQL Server Reporting Services, SharePoint, or Microsoft Exchange Server aren't installed or running on the system.

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Component	*Minimum	*Recommended
Processor	x64 architecture or compatible dual-core 1.5 GHz processor	Quad-core x64 architecture 2 GHz CPU or higher such as AMD Opteron or Intel Xeon systems
Memory	4-GB RAM	16-GB RAM or more
Hard disk	SAS RAID 5 or RAID 10 hard disk array	SAS RAID 5 or RAID 10 hard disk array

4. Software Requirements for Dynamics 365.

Windows Server operating system
This version of Microsoft Dynamics 365 Server can be installed only on Windows Server 64-bit-based computers. The specific versions and editions of Windows Server that are supported for installing and running this version of Microsoft Dynamics 365 Server are listed in the following sections:

Supported Windows Server 2016 editions
The following editions of the Windows Server 2016 operating system are supported for installing and running Microsoft Dynamics 365 Server:
- Windows Server 2016 Standard
- Windows Server 2016 Datacenter

Supported Windows Server 2012 editions
The following editions of the Windows Server 2012 operating system are supported for installing and running Microsoft Dynamics 365 Server:
- Windows Server 2012 R2 Standard
- Windows Server 2012 R2 Datacenter
- Windows Server 2012 Standard
- Windows Server 2012 Datacenter

Server Core installations
With the exception of the Microsoft Dynamics 365 Help Server and Microsoft Dynamics 365 Reporting Extensions roles, you can install any Microsoft Dynamics 365 Server *server role* on a Server Core installation of Windows Server. Server Core is a minimal server installation option for the Windows Server family of operating systems. Server Core provides a low-maintenance server environment with limited functionality.

Server virtualization

Microsoft Dynamics 365 servers can be deployed in a virtualized environment by using Windows Server 2008 or Windows Server 2012 with Hyper-V or virtualization solutions from vendors who participate in the Microsoft Windows Server Virtualization Validation Program (SVVP). You must understand the limitations and best practices of server virtualization before you try to virtualize your installation of Microsoft Dynamics 365. For information about Hyper-V, see the <u>Microsoft Virtualization</u> website.

Active Directory modes

The computer that Microsoft Dynamics 365 Server is running on must be a member in a domain that is running in one of the following Active Directory directory service forest and domain functional levels:

- Windows Server 2008
- Windows Server 2008 R2
- Windows Server 2012
- Windows Server 2012 R2

For more information about Active Directory domain and forest functional levels, see the Active Directory Domains and TrustsMicrosoft Management Console (MMC) snap-in Help.

- The computer that Microsoft Dynamics 365 is running on shouldn't function as an Active Directory domain controller.
- When you use the Add Users Wizard, only users from trusted domains in the current forest will be displayed. Users from trusted external forests aren't supported and don't appear in the wizard.
- Installing Microsoft Dynamics 365 Server in an LDAP directory that is running in Active Directory Application Mode (ADAM) is not supported.

Internet Information Services (IIS)

This version of Microsoft Dynamics 365 Server supports Internet Information Services (IIS) versions 8.0 and 8.5.

We recommend the County install and run IIS in Native Mode before you install Microsoft Dynamics 365 Server. However, if IIS is not installed, and it is required for a Microsoft Dynamics 365 server role, Microsoft Dynamics CRM Server Setup will install it.

Microsoft Dynamics 365 can't use a website that has more than one http or https binding. Although IIS supports multiple http and https bindings, there is a limitation in using additional bindings with Windows Communication Foundation (WCF). WCF is required when you use Microsoft Dynamics 365 for Outlook. Before you install or upgrade, you must remove the additional bindings from the website used for Microsoft Dynamics 365 or select a different website.

SQL Server editions

Any one of the following Microsoft SQL Server editions is required and must be installed and running on Windows Server 2016, Windows Server 2012, or Windows Server 2008 as supported by the version of Microsoft SQL Server. Additionally, Windows Server 2012 (RTM or R2) or Windows Server 2008 (SP2 or R2) must be 64-bit-based versions.

- Microsoft SQL Server 2016, Enterprise with Cumulative Update 2 (CU2)
- Microsoft SQL Server 2016, Standard with Cumulative Update 2 (CU2)

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- Microsoft SQL Server 2016, Developer, with Cumulative Update 2 (CU2) (for non-production use only)
- SQL Server 2014 Enterprise, 64-bit with SP2
- SQL Server 2014 Business Intelligence, 64-bit with SP2
- SQL Server 2014 Standard, 64-bit with SP2
- SQL Server 2014 Developer, 64-bit with SP2 (for non-production use only)
- Microsoft SQL Server 2012, Enterprise, 64-bit SP3
- Microsoft SQL Server 2012, Business Intelligence, 64-bit SP3
- Microsoft SQL Server 2012, Standard, 64-bit SP3
- Microsoft SQL Server 2012, Developer, 64-bit SP3 (for non-production use only)

Software component prerequisites

The following SQL Server components must be installed and running on the computer that is running SQL Server before you install Microsoft Dynamics 365 Server:

- SQL word breakers
  This is only required for some Microsoft Dynamics 365 language editions. For more information about word breaker versions for languages supported by SQL Server see Configure and Manage Word Breakers and Stemmers for Search.
- SQL Server Agent service
- SQL Server full-text indexing

The following components must be installed and running on the computer where Microsoft Dynamics 365 Server will be installed:

- Services
  - o Indexing Service
    To install this service, see the Windows Server documentation.
  - o IIS Admin
  - o World Wide Web Publishing
  - o Net.Tcp Port Sharing Service
- Windows Data Access Components (MDAC)
- Microsoft ASP.NET (must be registered, but does not have to be running.)

Dynamics Server Infrastructure:

The following table lists the recommended hardware requirements for Microsoft Dynamics Server. These requirements assume that additional components such as Microsoft SQL Server, SharePoint, or Microsoft Exchange Server are not installed or running on the system and are based on a 2000-user load. Supporting the user base will require the use of multiple servers. This deployment will leverage eight (8) Front End Servers and two (2) Back End Servers.

Dynamics Front End Servers:

The Front End Servers contain the server roles for running client applications and applications developed with the Microsoft Dynamics SDK. Those rules include the Discovery Web Service, Organization Web Service, Web Application Server, and Help Server. The Front End Servers will be load balanced to ensure satisfactory performance. Eight (8) front end servers are recommended to support the proposed environment. The following table outlines the specs for the Front End Server:

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Component	Recommended
Processor	Quad-core x64 architecture 2 GHz CPU or higher such as AMD Opteron or Intel Xeon systems
Memory	8 GB RAM or more
Hard disk	40 GB or more of available hard disk space

Dynamics Back End Servers:

The Back End Servers contain the server roles that handle processing asynchronous events, such as workflows and custom plug-ins. Those rules include the Asynchronous Service and Sandbox Processing Service. Two (2) back end servers are recommended to support the proposed environment. The following table outlines the specs for the Back End Server:

Component	Recommended
Processor	Quad-core x64 architecture 2 GHz CPU or higher such as AMD Opteron or Intel Xeon systems
Memory	8 GB RAM or more
Hard disk	40 GB or more of available hard disk space

Dynamics Email Router Server:

A server will be dedicated to housing the Email Router. The E-mail Router is an interface component that integrates your e-mail system (e.g., Exchange) with Microsoft Dynamics, and routes qualified e-mail messages to and from your Microsoft Dynamics organization. One (1) Email Router Server is recommended to support the proposed environment. The following table outlines the specs for the Email Router Server:

Component	Recommended
Processor	Quad-core x64 architecture 2 GHz CPU or higher such as AMD Opteron or Intel Xeon systems
Memory	8 GB RAM or more
Hard disk	40 GB or more of available hard disk space

Database Infrastructure:

Microsoft SQL Server 2016 is being requested to deploy Microsoft Dynamics 365 and will run on Windows 2012 or 2016. SQL Server will be a two-node clustered setup. One (1) SQL Server is recommended to support the proposed environment. The following specs are outlined for SQL Server:

Component	Recommended
Processor	Eight to Ten-core x64 architecture 2 GHz CPU or higher such as AMD Opteron or Intel Xeon systems
Memory	64 GB RAM
Hard disk (Does not include backup space)	• 1.2TB (determined by the current size of the DBs x 5 years of expected growth x 20%) • Initial Size – 520GB • 5 years of expected growth – 480GB (8GB/month)

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SSRS Server:
SQL Server Reporting Services provides a full range of ready-to-use tools and services to help you create, deploy, and manage reports for your organization, as well as programming features that enable you to extend and customize your reporting functionality. Dynamics integrates with SSRS through the use of the Reporting Extensions. Microsoft Dynamics Reporting Extensions are data processing extensions that are installed on the Microsoft SQL Server Reporting Services server. The Microsoft Dynamics Reporting Extensions accept the authentication information from Microsoft Dynamics and passes it to the Microsoft SQL Server Reporting Services server. One (1) SSRS Server is recommended to support the proposed environment. The following table outlines the specs for the SSRS Server:

Component	Recommended
Processor	Quad-core x64 architecture 2 GHz CPU or higher such as AMD Opteron or Intel Xeon systems
Memory	8 GB RAM or more
Hard disk	80 GB or more of available hard disk space

Scribe Server:
The Scribe server will manage and process integrations between Offender360 and all external applications. One (1) Scribe Server is recommended to support the proposed environment. The following table outlines the specs for the Scribe Server:

Component	Recommended
Processor	Eight core x64 architecture 2 GHz CPU or higher such as AMD Opteron or Intel Xeon systems
Memory	32 GB RAM or more
Hard disk	60 GB or more of available hard disk space