

INVITATION FOR BID

IFB C4A1LEG18

FOR

LEGACY 4 TELECOMMUNICATIONS VOICE AND DATA SERVICES

CALNET LEGACY 4

CATEGORY 15 – DEDICATED TRANSPORT

STATEMENT OF WORK

TECHNICAL REQUIREMENTS

Addendum 6

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Disclaimer: The original PDF version and any subsequent addendums of the IFB released by the Procurement Official of this Bid remain the official version. In the event of any inconsistency between the Bidder's versions, articles, attachments, specifications or provisions which constitute the Contract, the official State version of the IFB in its entirety shall take precedence.

Amendment Log

Amendment #	Date	Revision Description
Amendment 1	05/01/2020	Updated Table 15.3.2.b for accepted unsolicited items; corrected Bidders Description for items 88-93, 354-359, 620-268; and corrected product identifiers for items 775-783.
2	09/25/2020	Changed Contractor name from MCI Communications Services, Inc. dba Verizon Business Services to MCI Communications Services, LLC. dba Verizon Business Services
4	06/01/2022	- Removal of section 15.2.2 – CARRIER DS0 SERVICE due to contract term expiration. Verizon no longer providing services under this section. - Header updated

SOW TECHNICAL REQUIREMENTS

CATEGORY 15 – DEDICATED TRANSPORT

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SOW TECHNICAL REQUIREMENTS

CATEGORY 15 - DEDICATED TRANSPORT

15.1 OVERVIEW

This IFB C4A1LEG18 Category 15 provides the State's solicitation for best value solutions for dedicated transport services including Carrier DS1, Carrier DS3 and ISDN Primary Rate Interface services. This IFB C4A1LEG18 also describes the SOW Technical Requirements necessary to support the CALNET Legacy 4 program requirements.

This IFB C4A1LEG18 will be awarded to Bidders that meet the award criteria as described in IFB C4A1LEG18 Part 1, Section 4, *Bid Evaluation*. The CALNET Legacy 4 Contract(s) that result from the award of this IFB C4A1LEG18 will be managed on a day-to-day basis by the CALNET Contract Management and Oversight (CALNET CMO).

15.1.1 BIDDER RESPONSE REQUIREMENTS

Throughout this IFB C4A1LEG18, Bidders are required to acknowledge acceptance of the requirements described herein by responding to one (1) of the following:

Example A (for requirements that require confirmation that the Bidder understands and accepts the requirement):

"Bidder understands the Requirement and shall meet or exceed it? Yes_____ No_____"

Or,

Example B (for requirements contained in Technical Feature and/or Service Tables):

Table 15.x.x.a – Feature and/or Service Name					
Feature Name	Feature Description	Bidder's CALNET Product Identifier	Bidder's Description	Bidder Meets or Exceeds?	
				Y	N

15.1.2 DESIGNATION OF REQUIREMENTS

All SOW Technical Requirements that are specified by the State in this IFB C4A1LEG18 Section are Mandatory and must be responded to as identified in IFB C4A1LEG18 Part 1 Section 3.3.2.1, *SOW Mandatory Business and Technical Requirements*, by the Bidder. Additionally, some Mandatory requirements are “Mandatory-Scorable” and are designated as “(M-S)”. The State will have the option of whether or not to include each item in the Contract, based on the best interest of the State. Furthermore, the Customers will have the option whether or not to order services or features included in the Contract. Service Requests for some CALNET Legacy 4 services or features may require the CALNET CMO approval.

Bidders have the option to offer unsolicited items in specific product tables allowing the Bidder to offer additional items that are not specified in the State’s Mandatory tables. Refer to IFB C4A1LEG18 Part 1, Section 3.3.2.2, *Unsolicited Offerings*, for additional instruction.

Costs associated with services shall be included in the prices provided by the Bidder for the individual items included in the Category 15 Cost Worksheets. Items not listed in the Category 15 Cost Worksheets will not be billable by the Contractor. If additional unsolicited items include the features described in the IFB C4A1LEG18 and are not included as billable in the Category 15 Cost Worksheets, the cost associated with the features shall not be included in the unsolicited price.

Services and features included in the Category 15 Cost Worksheets are those that the Bidder must provide. All Bidders must provide individual prices as indicated in the Category 15 Cost Worksheets in the Bidder’s Final Proposal. Items submitted with no price will be considered as offered at no cost.

15.1.3 PACIFIC TIME ZONE

Unless specified otherwise, all times stated herein are times in the Pacific Time Zone.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.2 DEDICATED TRANSPORT REQUIREMENTS

15.2.1 DATA NETWORK OPERATIONS AND MANAGEMENT

15.2.1.1 General Description

The Contractor’s data network(s) shall meet established industry standards.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.2.1.1.1 Network Operations Center

The Contractor shall maintain a Network Operations Center (NOC) that is staffed 24x7x365 that coordinates and manages all data traffic.

The NOC shall perform the following services

1. Network surveillance;
2. Fault management (trouble identification, isolation and notification); and,
3. Monitor network performance in near real-time to identify capacity blockages and implement controls to optimize network health and performance immediately.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.2.1.2 Security

15.2.1.2.1 Physical Access

The Contractor shall physically secure all data and networking facilities through which data traverses the Contractor's WAN complying with the physical security controls of NIST SP 800-53, ISO/IEC 27001, or equivalent standards.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.2.1.2.2 Network Security

The Contractor's network security solution shall incorporate the following features:

1. The Contractor's network equipment locations and data centers shall use carrier grade platforms, and
2. All equipment shall be in a hardened facility and all unnecessary services shall be disabled or removed.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.2.1.2.3 Security Event Notifications

The Contractor shall provide the designated State representatives with notifications of suspected and real security violations that impact the Customers within one (1) hour of such determination via telephonic means or email.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.2.2 Carrier DS0 Service – SECTION PERMANENTLY REMOVED

15.2.3 Carrier DS1 Service

The Contractor shall provide DS1 digital data circuits. DS1 service supports point-to-point digital data circuits up to 1.544 Mbps providing full duplex, four-wire, synchronous serial digital data transport.

The minimum digital signals required are in the following two (2) formats:

1. Basic (full 1.544 Mbps); and,
2. Channelized (24 multiplexed DS0 channels — 64 Kbps each).

Basic Carrier DS1 Service shall include the following characteristics:

1. High Capacity - DS1 class of service; and,
2. Subscriber Access - Channel termination for the circuit terminating at the Contractor's point of presence.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.2.3.1 DS1 Functionality

The Carrier DS1 service provided by the Contractor shall include the functionality described below.

1. **B8ZS** - Line code allowing use of the entire bandwidth of a 1.544 facility. Line codes tell the network how the bits in a bit stream are electronically represented for transport through the network;
2. **Extended Super Frame** - Framing format that allows the additional bits to be added less frequently or added at longer intervals. Bits that are gained by doing this are then used to perform other functions;
3. **Subscriber Access Line with Equipment** – DS1 circuit termination with electrical Equipment. One (1) subscriber access for each termination;
4. **Packet Delivery** – The monthly average packet delivery shall be greater than 99.995 percent error free seconds on a monthly average throughput for each circuit; and,
5. **Standards** - The Contractor's DS1 service shall be provided in accordance with the North American T-carrier and applicable ANSI and ITU standards.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.2.3.2 DS1 Geographic Availability

The Contractor shall provide Carrier DS1 service throughout the Contractor's service area where commercially available.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.2.3.3 DS1 Services and Features

The Contractor shall offer the Carrier DS1 services and features detailed in Table 15.2.3.3.a.

Table 15.2.3.3.a – Carrier DS1 Services and Features					
	Feature Name	Feature Description	Bidder's CALNET Product Identifier	Bidder's Description	Bidder Meets or Exceeds? Y N
1	DS1 Service IntraLATA	IntraLATA carrier DS1 service. Channel Termination (one end point)	INLT0001	Verizon will provide DS1 Service IntraLATA with Channel Termination (one end point).	Y
2	DS1 Service InterLATA/ Interstate	InterLATA/Interstate carrier DS1 service. Channel Termination (one end point).	ILNT0001	Verizon will provide DS1 Service InterLATA/Interstate with Channel Termination (one end point).	Y
3	IntraLATA Variable Mileage for Dedicated DS1 Transport Services	IntraLATA variable mileage for dedicated transport Services. Mileage measured as the airline mileage between the serving central offices.	INVM0001	Verizon will provide IntraLATA Variable Mileage for Dedicated DS1 Transport Services. Mileage is measured as the airline mileage between the serving central offices.	Y
4	InterLATA Variable Mileage for Dedicated DS1 Transport	InterLATA variable mileage for dedicated transport Services. Mileage measured as the airline mileage between the serving central offices.	INDT0001	Verizon will provide InterLATA Variable Mileage for Dedicated DS1 Transport Services. Mileage is measured as the airline mileage between the serving central offices.	Y
5	Interstate Variable Mileage for Dedicated DS1 Transport Services	Interstate variable mileage for dedicated transport Services. Mileage measured as the airline mileage between the serving central offices.	IVMD0001	Verizon will provide Interstate Variable Mileage for Dedicated DS1 Transport Services. Mileage is measured as the airline mileage between the serving central offices.	Y

The Contractor may offer additional unsolicited DS1 services and features in Table 15.2.3.3.b.

Table 15.2.3.3.b – Unsolicited Carrier DS1 Services and Features			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
1			
2			

15.2.4 Carrier DS3 Service

The Contractor shall provide DS3 digital data circuits that support point-to-point digital data circuits up to 44.736 Mbps providing full duplex, synchronous serial digital data transport. DS3s may be clear-channel or channelized into 28 channels.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.2.4.1 DS3 Functionality

The DS3 service provided by the Contractor shall include the functionality.

1. **High Capacity DS3** - High Capacity DS3 Class of Service;
2. **Subscriber Access Line with Equipment** - DS3 circuit termination with electrical Equipment. One (1) subscriber access for each termination;
3. **Central Office Multiplexing** - Converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing;
4. **Packet Delivery** – The monthly average packet delivery shall be greater than 99.995 percent error free seconds on a monthly average throughput for each circuit; and,
5. **Standards** - The Contractor's DS3 service shall be provided in accordance with the North American T-carrier and applicable ANSI and ITU Standards.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.2.4.2 DS3 Geographic Availability

The Contractor shall provide Carrier DS3 service throughout the Contractor's service area where commercially available.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.2.4.3 DS3 Services and Features

The Contractor shall offer the DS3 services and features detailed in Table 15.2.4.3.a.

Table 15.2.4.3.a – Carrier DS3 Services and Features					
	Feature Name	Feature Description	Bidder's CALNET Product Identifier	Bidder's Description	Bidder Meets or Exceeds? Y N
1	DS3 Service IntraLATA	IntraLATA carrier DS3 service. Channel Termination (one end point)	INLT0003	Verizon will provide DS3 Service IntraLATA with Channel Termination (one end point).	Y

Table 15.2.4.3.a – Carrier DS3 Services and Features						
	Feature Name	Feature Description	Bidder's CALNET Product Identifier	Bidder's Description	Bidder Meets or Exceeds? Y N	
2	DS3 Service InterLATA/ Interstate	InterLATA/Interstate carrier DS3 service. Channel Termination (one end point)	ILNT0003	Verizon will provide DS3 Service InterLATA/Interstate with Channel Termination (one end point).	Y	
3	IntraLATA Variable Mileage for Dedicated Transport DS3 Services	IntraLATA variable mileage for dedicated transport services. Mileage measured as the airline mileage between the serving central offices.	INVM0003	Verizon will provide IntraLATA Variable Mileage for Dedicated Transport DS3 Services for dedicated transport services. Mileage measured as the airline mileage between the serving central offices.	Y	
4	InterLATA Variable Mileage for Dedicated Transport DS3 Services	InterLATA variable mileage for dedicated transport Services. Mileage measured as the airline mileage between the serving central offices.	INDT0003	Verizon will provide InterLATA Variable Mileage for Dedicated Transport DS3 Services for dedicated transport services. Mileage measured as the airline mileage between the serving central offices. (excludes Frame Relay and ATM)	Y	
5	Interstate Variable Mileage for Dedicated Transport DS3 Services	Interstate variable mileage for dedicated transport Services. Mileage measured as the airline mileage between the serving central offices.	INMD0003	Verizon will provide Interstate Variable Mileage for Dedicated Transport DS3 Services for dedicated transport services. Mileage measured as the airline mileage between the serving central offices.	Y	

The Contractor may offer additional unsolicited DS3 services and features in Table 15.2.4.3.b.

Table 15.2.4.3.b – Unsolicited Carrier DS3 Services and Features			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
1	Expedite Carrier Service	EXCR0000	Verizon is proposing Expedite Carrier Service that will provide improved installation intervals less than the standard intervals. Standard intervals for provisioning the following services include the following: Carrier DS0 30 Days Carrier DS1 30 Days Carrier DS3 45 Days ISDN Primary Rate Interface 30 Days
Telecommunications Service Priority (TSP) Emergency Provisioning or Essential Provisioning are available on a per circuit one time charge with (e.g. customer location access circuit) or without (e.g. carrier backbone circuit connection) Local Exchange Carrier (LEC) terminations. TSP Emergency Provisioning is provided in response to an emergency, when the Customers need for a service is critical and must be provisioned at the earliest possible time, without regard to the cost to the Customer. In Emergency Provisioning Verizon will take immediate action to allocate the resources necessary to provision circuit(s) assigned an Emergency Provisioning priority level as soon as possible, including dispatching personnel outside normal Company business hours. TSP Essential Provisioning is provided for new essential National Security (NS)/Emergency Preparedness (EP) service that must be installed by a specific date that cannot be met using normal Company business procedures. In Essential Provisioning, Verizon will adjust its resources to make its best effort to provision the circuit(s) assigned an Essential Provisioning priority level, by the requested service due date, based on the priority level assigned. This requires a TSP Local Access Channel Charge for Provisioning or Restoration.			
2	TSP Emergency Provisioning and Essential Provisioning – Circuits without LEC Termination	EEPC0001	TSP Emergency Provisioning or Essential Provisioning are available on a per circuit one time charge with or without LEC terminations.
3	TSP Emergency Provisioning and Essential Provisioning – Circuits with LEC Termination – Single & Additional	EEPC0002	TSP Emergency Provisioning or Essential Provisioning are available on a per circuit one time charge with or without LEC terminations.
TSP Priority Restoration are available on a per circuit one time and monthly charge with (e.g. customer location access circuit) or without (e.g. carrier backbone circuit connection) Local Exchange Carrier (LEC) terminations by state. TSP Priority Restoration designation establishes priorities for restoring NS/EP service in the event of an outage or failure of multiple services. Verizon will dispatch personnel outside normal business hours if necessary to restore circuit(s) construction assigned a Priority Restoration level of 1, 2, or 3. Verizon will dispatch personnel outside normal business hours to restore circuits a Priority Restoration Level of 4 or 5 only when the next business day is more than 24 hours away. This requires a TSP Local Access Channel Charge for Provisioning or Restoration.			

Table 15.2.4.3.b – Unsolicited Carrier DS3 Services and Features			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
4	CA TSP Priority Restoration – Circuits without LEC Termination	CKLT0001	TSP Priority Restoration are available on a per circuit one time and monthly charge with or without LEC terminations.
5	CA TSP Priority Restoration – Circuits with LEC Termination, Single & Additional	CKLT0002	TSP Priority Restoration are available on a per circuit one time and monthly charge with or without LEC terminations.
6	CO TSP Priority Restoration – Circuits without LEC Termination	CKWL0001	TSP Priority Restoration are available on a per circuit one time and monthly charge with or without LEC terminations.
7	CO TSP Priority Restoration – Circuits with LEC Termination, Single & Additional	CKWL0002	TSP Priority Restoration are available on a per circuit one time and monthly charge with or without LEC terminations.
8	NY TSP Priority Restoration – Circuits without LEC Termination	NCKL0001	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
9	NY TSP Priority Restoration – Circuits with LEC Termination, Single & Additional	NCKL0002	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
10	VA TSP Priority Restoration – Circuits without LEC Termination	VCKL0001	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
11	VA TSP Priority Restoration – Circuits with LEC Termination, Single & Additional	VCKL0002	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
12	WA TSP Priority Restoration – Circuits without LEC Termination	WCKL0001	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
13	WA TSP Priority Restoration – Circuits with LEC Termination, Single & Additional	WCKL0002	One-time, Monthly, & Change per circuit charges apply for Priority Restoration, depending on whether installation of the TSP priority code includes LEC termination.
TSP Local Access Channel Charge for Provisioning or Restoration are available on a per channel one time charge state.			
Channel based charges set out below apply to the provisioning or restoration of circuits assigned a TSP priority level. This requires a TSP Emergency Provisioning or Essential Provisioning charge and/or TSP Priority Restoration charge.			

Table 15.2.4.3.b – Unsolicited Carrier DS3 Services and Features			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
14	CA TSP Local Access Channel Charge - Provisioning	CLAC0001	TSP Local Access Channel Charge are available on a per channel one time charge state.
15	CA TSP Local Access Channel Charge - Priority Restoration	CLAC0002	TSP Local Access Channel Charge are available on a per channel one time charge state.
16	CO TSP Local Access Channel Charge - Provisioning	COLC0001	TSP Local Access Channel Charge are available on a per channel one time charge state.
17	CO TSP Local Access Channel Charge - Priority Restoration	COLC0002	TSP Local Access Channel Charge are available on a per channel one time charge state.
18	NY TSP Local Access Channel Charge - Provisioning	NLAC0001	TSP Local Access Channel Charge are available on a per channel one time charge state.
19	NY TSP Local Access Channel Charge - Priority Restoration	NLAC0002	TSP Local Access Channel Charge are available on a per channel one time charge state.
20	VA TSP Local Access Channel Charge - Provisioning	VLAC0001	TSP Local Access Channel Charge are available on a per channel one time charge state.
21	VA TSP Local Access Channel Charge - Priority Restoration	VLAC0002	TSP Local Access Channel Charge are available on a per channel one time charge state.
22	WA TSP Local Access Channel Charge - Provisioning	WLAC0001	TSP Local Access Channel Charge are available on a per channel one time charge state.
23	WA TSP Local Access Channel Charge - Priority Restoration	WLAC0002	TSP Local Access Channel Charge are available on a per channel one time charge state.

15.2.5 ISDN Primary Rate Interface (PRI)

The Contractor shall provide Integrated Services Digital Network (ISDN) Primary Rate Interface (PRI) through standard T1 (1.544 Mbps) point-to-point private-line Facilities. ISDN PRI shall be available from the Contractor.

Bidder understands the Requirement and shall meet or exceed it? Yes X No

15.2.5.1 ISDN PRI Standards

ISDN PRI shall be provided in accordance with all applicable ANSI, IT and Telcordia/Bellcore Standards.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.2.5.2 ISDN PRI Geographic Availability

The Contractor shall provide ISDN PRI Service throughout the Contractor's service area where commercially available.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.2.5.3 ISDN PRI Configurations

The Contractor shall offer the ISDN PRI Configurations detailed in Table 15.2.5.3.a.

Table 15.2.5.3.a – ISDN PRI Configurations					
	Feature Name	Feature Description	Bidder's CALNET Product Identifier	Bidder's Description	Bidder Meets or Exceeds? Y N
1	ISDN PRI Package #1 @ 64 Kbps	Provides 23 64Kbps (bearer) channels and one (1) primary 64Kbps D channel.	IDNP1064	Verizon will provide a 23 64Kbps (bearer) channels and one (1) primary 64Kbps D channel.	Y
2	ISDN PRI Package #2 @ 64 Kbps	Additional 24 64Kbps (bearer) channels to be provisioned with Package 1	IDNP2064	Verizon will provide additional 24 64Kbps (bearer) channels to be provisioned with Package 1.	Y
3	ISDN PRI Package #3 @ 64 Kbps	Additional 23 64Kbps (bearer) channels and one (1) backup 64Kbps D channel to be provisioned with Package 1.	IDNP3064	Verizon will provide additional 23 64Kbps (bearer) channels and one (1) backup 64Kbps D channel to be provisioned with Package 1.	Y
4	IntraLATA Local Calling up to 12 miles	Local calling service up to 12 miles.	ILLC0000	Verizon will provide local calling service up to 12 miles.	Y

The Contractor may offer additional unsolicited ISDN PRI Configurations features in Table 15.2.5.3.b.

Table 15.2.5.3.b – Unsolicited ISDN PRI Configurations

	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
1	DID Num Block (20)	DBLK0020	Users can have a Direct Inward Dialing (DID) number (public phone number) assigned to their SIP phone or a PBX phone behind an Enterprise gateway. Local number portability will also be supported. Users are assigned a 10-digit directory number that can be used to place or receive calls directly to this phone, without forcing access via a central number. These are ordered in blocks of 20 numbers.
2			

15.2.6 SERVICE RESTORATION

15.2.6.1 Telecommunications Service Priority (TSP) Program

The Contractor shall comply with the Telecommunications Service Priority (TSP) Program, a Federal Communications Commission (FCC) mandate for prioritizing Service Requests by identifying those services critical to National Security and Emergency Preparedness (NS/EP) and be in compliance with all CPUC and FCC Requirements.

*Bidder understands the Requirement and shall meet or exceed it? Yes **X** No*

15.2.6.2 Data Network Disaster/Operational Recovery

Public safety agencies, major data centers, agencies with supporting roles during disaster or emergency operations, and agencies with significant roles in post-disaster recovery have mission-critical needs to maintain network availability during disasters or emergencies.

It is essential that service be restored as soon as possible, and the services most critical to the State's operations remain operational during efforts to achieve full service recovery.

The Contractor shall implement processes that will assure the continuity of services for critical CALNET Legacy 4 operations, producing the greatest benefit from remaining limited resources and achieving a systematic and orderly resumption of all contracted services.

*Bidder understands the Requirement and shall meet or exceed it? Yes **X** No*

15.3 OTHER SERVICES

15.3.1 HOURLY RATES FOR SERVICES

The hourly classifications of hours worked for services described in this Section 15.3.1 will be as follows:

1. Regular Hours – Hours worked between 8:00AM and 4:59PM, Monday through Friday.
2. Overtime Hours – Hours worked between 5:00PM and 7:59AM, Monday through Friday and all day Saturday.
3. Sunday and Holiday Hours – Any hours worked on Sunday or State of California holidays.

When coordinated scheduling for projects between the State and the Contractor occurs, the State and the Contractor may mutually agree that hours worked between 5:00PM and 7:59AM, Monday through Friday and all day Saturday and any hours worked on Sunday or State of California holidays can be classified as Regular Hours in accordance with the State of California Department of Industrial Relations.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.3.2 EXTENDED DEMARCATION WIRING SERVICES

The Contractor shall provide Extended Demarcation (Extended Demarc) wiring to support the services covered by this IFB C4A1LEG18 Category for all Customer occupied buildings where services under this Contract are being offered. Extended Demarc wiring includes wiring and cable related activities required to extend the service demarcation point to the Customer defined termination location or cross-connect point from the Contractor's Minimum Point of Entry (MPOE).

Extended Demarc wiring shall include all necessary hardware including wire and/or cable, connectors, jumpers, patch panels, minor materials and jacks. Extended Demarc wiring shall also include all necessary labor required to complete the provisioning of service including installation, testing, trouble shooting, labeling and documentation.

Extended Demarc wiring is limited to the following:

1. Installation of cabling for extending services from the MPOE location to the Customer's point of utilization;
2. Installation of cross-connects or rearrangement of existing jumpers;
3. Identification and testing of existing cabling beyond the MPOE to the Customer's equipment location; or,
4. Testing, trouble shooting, labeling and completing documentation.

The Contractor shall provide installations in accordance with the timeframes identified for the services that this cabling will support, and shall be subject to the SLAs detailed in Section 15.4.8.7, *Provisioning SLAs*, associated with that service.

The Contractor shall not be required to complete Extended Demarc wiring from the MPOE to the extended Demarc location if:

1. The wire/cable pathway is blocked and cannot be cleared in less than 20 minutes or if the Contractor would cause damage to the Customer site or existing cabling in clearing the pathway;
2. The wire/cable pathway is in an asbestos environment or other environment hazardous to the Contractor's personnel, or where such work would be hazardous to the public or to the Customer's staff; or,
3. Written release of the responsibility to provide the Extended Demarc is provided by either the Customer or by the CALNET CMO.

The Bidder shall provide a price in the Category 15 Cost Worksheets for all labor and materials required for Extended Demarc wiring necessary to complete the provisioning of one (1) Demarc extension as described above. The Bidder shall provide one (1) price for each media identified.

The Contractor shall install wiring according to industry standards and cabling recommendations published in the State Telecommunications Management Manual (STMM), Facilities Management Chapter, Uniform Building Cabling/Wiring current at the time of this IFB C4A1LEG18 and as periodically updated by the CALNET CMO. Additionally, the Contractor shall install and maintain all wiring in accordance with all applicable EIA/TIA, BICSI, and ITU-T recommended standards current at the time of installation or maintenance.

The Contractor shall provide Extended Demarcation Wiring Services limited to one (1) occurrence or installation for the specific telecommunications service the cabling is meant to support and must be ordered in conjunction with the service being provisioned. All other cabling will be the responsibility of the Customer and will be acquired through other procurement vehicles.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

The Contractor shall offer the Extended Demarcation Wiring services detailed in Table 15.3.2.a.

Table 15.3.2.a – Extended Demarcation Wiring Services						
	Feature Name	Feature Description	Bidder's CALNET Product Identifier	Bidder's Description	Bidder Meets or Exceeds? Y N	
1	Extended Demarcation – Copper four-Pair – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48s or equivalent jack.	DMRR0004	Verizon will provide Extended Demarcation Copper Four Pair Wiring that will include all necessary hardware including 300 feet of four-pair cable, connectors, jumpers, patch panels, minor materials and jacks. Extended Demarcation wiring will also include all necessary labor required to complete the provisioning of service including installation, testing, trouble shooting, labeling and documentation. Verizon assumes customer to have a clear pathway for cable installations.	Y	

Table 15.3.2.a – Extended Demarcation Wiring Services						
	Feature Name	Feature Description	Bidder's CALNET Product Identifier	Bidder's Description	Bidder Meets or Exceeds? Y N	
2	Extended Demarcation – Copper four-Pair – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48s or equivalent jack.	DMRO0004	Verizon will provide Extended Demarcation Copper Four Pair Wiring that will include all necessary hardware including 300 feet of four-pair cable, connectors, jumpers, patch panels, minor materials and jacks. Extended Demarcation wiring will also include all necessary labor required to complete the provisioning of service including installation, testing, trouble shooting, labeling and documentation. Verizon assumes customer to have a clear pathway for cable installations.	Y	

Table 15.3.2.a – Extended Demarcation Wiring Services						
	Feature Name	Feature Description	Bidder's CALNET Product Identifier	Bidder's Description	Bidder Meets or Exceeds? Y N	
3	Extended Demarcation – Copper four-Pair – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet of four-pair cable and an RJ48s or equivalent jack.	DMRS0004	Verizon will provide Extended Demarcation Copper Four Pair Wiring that will include all necessary hardware including 300 feet of four-pair cable, connectors, jumpers, patch panels, minor materials and jacks. Extended Demarcation wiring will also include all necessary labor required to complete the provisioning of service including installation, testing, trouble shooting, labeling and documentation. Verizon assumes customer to have a clear pathway for cable installations.	Y	

Table 15.3.2.a – Extended Demarcation Wiring Services						
	Feature Name	Feature Description	Bidder's CALNET Product Identifier	Bidder's Description	Bidder Meets or Exceeds? Y N	
4	Extended Demarcation – Copper 25 Pair – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one (1) patch panel and mounting hardware. Ten (10) Category 5e, three (3) meter jumpers; one (1) 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	DMRR0025	Verizon will provide Extended Demarcation Copper 25 Pair Wiring services. The station cabling provided to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment is up to 300 feet, will include ten (10) Category 5e, three (3) meter jumpers; one (1) 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. This includes associated troubleshooting, testing, and labeling. To provide this service, Verizon assumes customer to have a clear pathway for cable installations.	Y	

Table 15.3.2.a – Extended Demarcation Wiring Services						
	Feature Name	Feature Description	Bidder's CALNET Product Identifier	Bidder's Description	Bidder Meets or Exceeds? Y N	
5	Extended Demarcation – Copper 25 Pair – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one (1) patch panel and mounting hardware. Ten (10) Category 5e, three (3) meter jumpers; one (1) 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	DMRO0025	Verizon will provide Extended Demarcation Copper 25 Pair Wiring. The station cabling provided to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment is up to 300 feet, will include ten (10) Category 5e, three (3) meter jumpers; one (1) 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. This includes associated troubleshooting, testing, and labeling. To provide this service, Verizon assumes customer to have a clear pathway for cable installations.	Y	

Table 15.3.2.a – Extended Demarcation Wiring Services						
	Feature Name	Feature Description	Bidder's CALNET Product Identifier	Bidder's Description	Bidder Meets or Exceeds? Y N	
6	Extended Demarcation – Copper 25 Pair – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment. Includes 300 feet or less of Category 5 25-pair CMP cable, one (1) patch panel and mounting hardware. Ten (10) Category 5e, three (3) meter jumpers; one (1) 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. Includes associated troubleshooting, testing, and labeling.	DMRS0025	Verizon will provide Extended Demarcation Copper 25 Pair Wiring services. The station cabling provided to extend Facilities from the Customer's MPOE to the Customer's point of utilization from a copper trunk or trunking equipment is up to 300 feet, will include ten (10) Category 5e, three (3) meter jumpers; one (1) 24-port patch panel to be provided in the MPOE and Intermediate Distribution Frame (IDF) for all circuits being extended. This includes associated troubleshooting, testing, and labeling. To provide this service, Verizon assumes customer to have a clear pathway for cable installations.	Y	

Table 15.3.2.a – Extended Demarcation Wiring Services					
	Feature Name	Feature Description	Bidder's CALNET Product Identifier	Bidder's Description	Bidder Meets or Exceeds? Y N
7	Extended Demarcation – Optical Fiber Link – Regular Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment with strand count required to provision one (1) each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two (2) SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	DMFR0000	Verizon will provide an Extended Demarcation Optical Fiber Link wiring to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one-each service only. Verizon will include one (1) each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two (2) SC-SC duplex patch cords for each single circuit extension. This includes associated troubleshooting, testing and labeling. To provide this service, Verizon assumes customer to have a clear pathway.	Y

Table 15.3.2.a – Extended Demarcation Wiring Services						
	Feature Name	Feature Description	Bidder's CALNET Product Identifier	Bidder's Description	Bidder Meets or Exceeds? Y N	
8	Extended Demarcation – Optical Fiber Link – Overtime Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment with strand count required to provision one (1) each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two (2) SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	DMFO0000	Verizon will provide an Extended Demarcation Optical Fiber Link wiring to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one-each service only. Verizon will include one (1) each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two (2) SC-SC duplex patch cords for each single circuit extension. This includes associated troubleshooting, testing and labeling. To provide this service, Verizon assumes customer to have a clear pathway.	Y	

Table 15.3.2.a – Extended Demarcation Wiring Services						
	Feature Name	Feature Description	Bidder's CALNET Product Identifier	Bidder's Description	Bidder Meets or Exceeds? Y N	
9	Extended Demarcation – Optical Fiber Link – Sunday and Holiday Hours	Wiring services to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment with strand count required to provision one (1) each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two (2) SC-SC duplex patch cords for each single circuit extension. Includes associated troubleshooting, testing and labeling.	DMFS0000	Verizon will provide an Extended Demarcation Optical Fiber Link wiring to extend Facilities from the Customer's MPOE to the Customers point of utilization from a fiber trunk or trunking equipment as described above with strand count required to provision one-each service only. Verizon will include one (1) each service only. Includes up to 1,000 feet of 62.5/125 – or 50/125 – micron, two-strand CMP fiber drop cable with adapters, enclosures, connectors, and two (2) SC-SC duplex patch cords for each single circuit extension. This includes associated troubleshooting, testing and labeling. To provide this service, Verizon assumes customer to have a clear pathway.	Y	

The Contractor may offer additional unsolicited Extended Demarcation Wiring services in Table 15.3.2.b.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
Extended Demarcation Wiring Services – Pathway Components Services			
1	Pathway Component Service J-Hook and Hangers 300' package furnish and installed.	DMWR0002	Extended Demarcation Wiring Services Pathway Components Services - Standard J Hook. Verizon will Furnish and Install Standard J Hooks and Hangers in support of 300' cable package and Installation.
2	Pathway Components Services - Surface Raceway 1" Top and Base with End Caps Non-Metallic 10' package.	DMWR0012	Extended Demarcation Wiring Services Pathway Components Services - Surface Raceway 1" Top and Base with End Caps Non-Metallic 10' package.
3	Pathway Components Services - Surface Raceway 2" Top and Base with End Caps Non-Metallic 10' package.	DMWR0013	Extended Demarcation Wiring Services Pathway Components Services - Surface Raceway 2" Top and Base with End Caps Non-Metallic 10' package.
Regular Hours Extended Demarcation Wiring Services - Telco Room - MDF/IDF/MPOE			
4	Install customer provided UPS	TMIR0001	Install customer provided UPS
5	Cable 48-port switch (patch cords)	TMIR0002	Install patch cords in customer provided device. Total of 48 patch cords provided and installed.
6	7' 2-post rack	TMIR0003	Provide and install 7' 2-post rack
7	7' 4-post rack	TMIR0004	Provide and install 7' 4-post rack
8	36"Hx19"Wx24"D CUBE-IT Wallmount Enclosure with Plexi Door Black	TMIR0005	Provide and install 36"Hx19"Wx24"D CUBE-IT Wallmount Enclosure with Plexi Door Black
9	Fan Kit for CUBE-IT Enclosure	TMIR0006	Provide and install Fan Kit for CUBE-IT Enclosure
10	Filter Kit for CUBE-IT Enclosure	TMIR0007	Provide and install Filter Kit for CUBE-IT Enclosure
11	26"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure	TMIR0008	Provide and install 26"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure
12	36"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure	TMIR0009	Provide and install 36"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure
13	Thinline II Duplex Receptacle Surge-Suppressed	TMIR0010	Provide and install Thinline II Duplex Receptacle Surge-Suppressed

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
14	Thinline II Intelligent Fan kit	TMIR0011	Provide and install Thinline II Intelligent Fan kit
15	14.5"Hx23.63"Wx17.7"D SmartRack Low Profile 6U Locking Wall Enclosure	TMIR0012	14.5"Hx23.63"Wx17.7"D SmartRack Low Profile 6U Locking Wall Enclosure
16	Install customer provided rack	TMIR0013	Install customer provided rack
17	Horizontal wire manager	TMIR0014	Install and provide horizontal wire manager
18	Vertical wire manager	TMIR0015	Install and provide vertical wire manager
19	Install customer provided wire manager	TMIR0016	Install customer provided wire manager
20	Shelf (single sided 3U)	TMIR0017	Provide and Install each shelf (single sided 3U)
21	Customer provided shelf	TMIR0018	Install customer provided shelf
22	Hinged Wall Bracket	TMIR0019	Provide and install Hinged Wall Bracket
23	4' x 4' x 3/4" painted plywood backboard	TMIR0020	Provide and install 4' x 4' x 3/4" painted plywood backboard – fire rated
24	4' x 8' x 3/4" painted plywood backboard	TMIR0021	Provide and install 4' x 8' x 3/4" painted plywood backboard – fire rated
25	Power strip (4 outlets)	TMIR0022	Provide and Install each power strip (4 outlets). Standard plug in power strip
26	10' of 12" ladder rack and support hardware	TMIR0023	Provide and install up to 10' of 12" ladder rack and support hardware
27	Communication pole 10 feet	TMIR0024	Provide and install Communication pole 10 feet. Matches existing modular furniture manufacturer if available
28	One (1) 20 Amp Duplex Outlet within 75' of Existing Panel	TMIR0025	Provide and install one (1) 20 Amp Duplex Outlet within 75' of Existing Panel. Not to exceed price. IPR available for reduced rates.
Regular Hours Extended Demarcation Wiring Services - Backbone Cabling Placing and Consumables:			
29	6-strand MM ISP fiber	CBLR0001	Provide and install 6-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum
30	6-strand SM ISP fiber	CBLR0002	Provide and install 6-strand SM ISP fiber. 8.3 μ fiber plenum

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
31	12-strand MM ISP fiber	CBLR0003	Provide and install 12-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum
32	12-strand SM ISP Fiber	CBLR0004	Provide and install 12-strand SM ISP fiber. 8.3 μ fiber plenum
33	6-strand MM Indoor/Outdoor Fiber	CBLR0005	Provide and install 6-strand MM Indoor/Outdoor fiber
34	6-strand SM Indoor/Outdoor Fiber	CBLR0006	Provide and install 6-strand SM Indoor/Outdoor fiber
35	12-strand MM Indoor/Outdoor Fiber	CBLR0007	Provide and install 12-strand MM Indoor/Outdoor fiber
36	12-strand SM Indoor/Outdoor Fiber	CBLR0008	Provide and install 12-strand SM Indoor/Outdoor fiber
37	6-strand SM OSP Loose Tube underground fiber	CBLR0009	Provide and install 6-strand SM OSP Loose Tube underground fiber
38	12-strand SM OSP Loose Tube underground fiber	CBLR0010	Provide and install 12-strand SM OSP Loose Tube underground fiber
39	24-strand SM OSP Loose Tube underground fiber	CBLR0011	Provide and install 24-strand SM OSP Loose Tube underground fiber
40	48-strand SM OSP Loose Tube underground fiber	CBLR0012	Provide and install 48-strand SM OSP Loose Tube underground fiber
41	24-strand SM Indoor/Outdoor Fiber	CBLR0013	Provide and install 24-strand SM Indoor/Outdoor fiber
42	48-strand SM Indoor/Outdoor fiber	CBLR0014	Provide and install 48-strand SM Indoor/Outdoor fiber
43	6-strand Fanout Kit SingleMode	CBLR0015	Provide and install 6-strand Fanout Kit SingleMode
44	6-strand Fanout Kit MultiMode	CBLR0016	Provide and install 6-strand Fanout Kit MultiMode
45	12-strand Fanout Kit SingleMode	CBLR0017	Provide and install 12-strand Fanout Kit SingleMode
46	12-strand Fanout Kit MultiMode	CBLR0018	Provide and install 12-strand Fanout Kit MultiMode
47	1" innerduct underground in existing duct	CBLR0019	Provide and install 1" innerduct underground in existing duct. Override situations will be accessed by contractor for viability
48	1 1/4" innerduct underground in existing duct	CBLR0020	Provide and install 1 1/4" innerduct underground in existing duct. Override situations will be accessed by contractor for viability.
49	25-pair copper ISP	CBLR0021	Provide and install 25-pair copper ISP. Plenum

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
50	25-pair copper underground OSP	CBLR0022	Provide and install 25-pair copper underground OSP
51	50-pair copper ISP	CBLR0023	Provide and install 50-pair copper ISP. Plenum
52	50-pair copper underground OSP	CBLR0024	Provide and install 50-pair copper underground OSP
53	100-pair copper ISP	CBLR0025	Provide and install 100-pair copper ISP. Plenum
54	100-pair copper underground OSP	CBLR0026	Provide and install 100-pair copper underground OSP
Regular Hours Extended Demarcation Wiring Services - Backbone and Circuit Extension Cable Placing and Consumables:			
55	300' Cat 6 copper ISP circuit extension	CRBR0001	Provide and install up to 300' Cat 6 copper ISP circuit extension. Plenum
56	300' Cat 6 copper OSP circuit extension	CRBR0002	Provide and install up to 300' Cat 6 copper OSP circuit extension
57	300' 25-pair copper ISP circuit extension	CRBR0003	Provide and install up to 300' 25-pair copper ISP circuit extension. Plenum
58	300' 25-pair copper OSP circuit extension	CRBR0004	Provide and install up to 300' 25-pair copper OSP circuit extension
59	300' RG58 COAX ISP	CRBR0005	Provide and install up to 300' RG58 COAX ISP. Plenum
60	300' RG62 COAX ISP	CRBR0006	Provide and install up to 300' RG62 COAX ISP. Plenum
61	300' RG6 COAX ISP	CRBR0007	Provide and install up to 300' RG6 COAX ISP. Plenum
Regular Hours Extended Demarcation Wiring Services - Backbone and Circuit Extension - Termination Hardware:			
62	25-pair protector	CKTR0001	Provide and install 25-pair protector. Gas modules or match existing
63	50-pair protector	CKTR0002	Provide and install 50-pair protector. Gas modules or match existing
64	100-pair protector	CKTR0003	Provide and install 100-pair protector. Gas modules or match existing
65	4-pair protector	CKTR0004	Provide and install 4-pair protector. Gas modules or match existing
66	Protector modules	CKTR0005	Provide and install protector modules. Gas modules or match existing
67	BIX mount 250-pair	CKTR0006	Provide and install BIX mount 250-pair
68	BIX connector	CKTR0007	Provide and install BIX connector

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
69	BIX ring	CKTR0008	Provide and install BIX ring
70	66-type Block 50 pair	CKTR0009	Provide and install 66-type Block 50 pair
71	110-style block 100 pair kit	CKTR0010	Provide and install 110-style block 100 pair kit. Includes C4 or C5 clips
72	Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	CKTR0011	Provide and install Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately
73	Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	CKTR0012	Provide and install Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately
74	Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	CKTR0013	Provide and install Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately
75	Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	CKTR0014	Provide and install Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately
76	6-strand connector panel MM 50/125 SC	CKTR0015	Provide and Install 6-strand connector panel MM 50/125 SC. Complete with couplers
77	6-strand connector panel MM 50/125 LC	CKTR0016	Provide and install 6-strand connector panel MM 50/125 LC. Complete with couplers
78	6-strand connector panel MM 62.5/125 SC	CKTR0017	Provide and install 6-strand connector panel MM 62.5/125 SC. Complete with couplers
79	6-strand connector panel MM 62.5/125 LC	CKTR0018	Provide and install 6-strand connector panel MM 62.5/125 LC. Complete with couplers
80	12-strand connector panel MM 50/125 SC	CKTR0019	Provide and install 12-strand connector panel MM 50/125 SC. Complete with couplers
81	12-strand connector panel MM 50/125 LC	CKTR0020	Provide and install 12-strand connector panel MM 50/125 LC. Complete with couplers
82	12-strand connector panel MM 62.5/125 SC	CKTR0021	Provide and install 12-strand connector panel MM 62.5/125 SC. Complete with couplers

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
83	12-strand connector panel MM 62.5/125 LC	CKTR0022	Provide and install 12-strand connector panel MM 62.5/125 LC, Complete with couplers
84	6-strand connector panel SM SC	CKTR0023	Provide and install 6-strand connector panel SM SC. Complete with couplers
85	6-strand connector panel SM LC	CKTR0024	Provide and install 6-strand connector panel SM LC. Complete with couplers
86	12-strand connector panel SM SC	CKTR0025	Provide and install 12-strand connector panel SM SC. Complete with couplers
87	12-strand connector panel SM LC	CKTR0026	Provide and install 12-strand connector panel SM LC. Complete with couplers
88	Provide SC Compatible 50µm Multimode connector (material only)	CKTR0027	Provide SC Compatible 50µm Multimode connector (material only) Provide SC Compatible 50µm Multimode connector (material only). Provide SC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers CKBR0006 or CKBR0007 and CKBR0008.
89	Provide SC Compatible 62.5µm Multimode connector (material only)	CKTR0028	Provide SC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers CKBR0006 or CKBR0007 and CKBR0008.
90	Provide SC Compatible Single Mode connector (material only)	CKTR0029	Provide SC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers CKBR0006 or CKBR0007 and CKBR0008.
91	Provide LC Compatible 50µm Multimode connector (material only)	CKTR0030	Provide LC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers CKBR0006 or CKBR0007 and CKBR0008.
92	Provide LC Compatible 62.5µm Multimode connector (material only)	CKTR0031	Provide LC Compatible 62.5µm Multimode connector (material only). Must be ordered with Product Identifiers CKBR0006 or CKBR0007 and CKBR0008.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
93	Provide LC Compatible Single Mode connector (material only)	CKTR0032	Provide LC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers CKBR0006 or CKBR0007 and CKBR0008.
94	Multimode 62.5/125 SC To SC 1 Meter Patch Cable	CKTR0033	Provide and install Multimode 62.5/125 SC To SC 1 Meter Patch Cable.
95	Multimode 62.5/125 SC To SC 3 Meter Patch Cable	CKTR0034	Provide and install Multimode 62.5/125 SC To SC 3 Meter Patch Cable.
96	Multimode 62.5/125 SC To SC 10 Meter Patch Cable	CKTR0035	Provide and Install Multimode 62.5/125 SC To SC 10 Meter Patch Cable.
97	Multimode 62.5/125 SC To LC 1 Meter Patch Cable	CKTR0036	Provide and install Multimode 62.5/125 SC To LC 1 Meter Patch Cable.
98	Multimode 62.5/125 SC To LC 3 Meter Patch Cable	CKTR0037	Provide and install Multimode 62.5/125 SC To LC 3 Meter Patch Cable.
99	Multimode 62.5/125 SC To LC 10 Meter Patch Cable	CKTR0038	Provide and install Multimode 62.5/125 SC To LC 10 Meter Patch Cable.
100	Multimode 62.5/125 LC To LC 1 Meter Patch Cable	CKTR0039	Provide and install Multimode 62.5/125 LC To LC 1 Meter Patch Cable.
101	Multimode 62.5/125 LC To LC 3 Meter Patch Cable	CKTR0040	Provide and install Multimode 62.5/125 LC To LC 3 Meter Patch Cable.
102	Multimode 62.5/125 LC To LC 10 Meter Patch Cable	CKTR0041	Provide and install Multimode 62.5/125 LC To LC 10 Meter Patch Cable.
103	Multimode 50/125 SC To SC 1 Meter Patch Cable	CKTR0042	Provide and install Multimode 50/125 SC To SC 1 Meter Patch Cable.
104	Multimode 50/125 SC To SC 3 Meter Patch Cable	CKTR0043	Provide and install Multimode 50/125 SC To SC 3 Meter Patch Cable.
105	Multimode 50/125 SC To SC 10 Meter Patch Cable	CKTR0044	Provide and install Multimode 50/125 SC To SC 10 Meter Patch Cable.
106	Multimode 50/125 SC To LC 1 Meter Patch Cable	CKTR0045	Provide and install Multimode 50/125 SC To LC 1 Meter Patch Cable
107	Multimode 50/125 SC To LC 3 Meter Patch Cable	CKTR0046	Provide and install Multimode 50/125 SC To LC 3 Meter Patch Cable.
108	Multimode 50/125 SC To LC 10 Meter Patch Cable	CKTR0047	Provide and install Multimode 50/125 SC To LC 10 Meter Patch Cable.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
109	Multimode 50/125 LC To LC 1 Meter Patch Cable	CKTR0048	Provide and install Multimode 50/125 LC To LC 1 Meter Patch Cable.
110	Multimode 50/125 LC To LC 3 Meter Patch Cable	CKTR0049	Provide and install Multimode 50/125 LC To LC 3 Meter Patch Cable.
111	Multimode 50/125 LC To LC 10 Meter Patch Cable	CKTR0050	Provide and install Multimode 50/125 LC To LC 10 Meter Patch Cable.
112	Single Mode 9/125 SC To SC 1 Meter Patch Cable	CKTR0051	Provide and install Single Mode 9/125 SC To SC 1 Meter Patch Cable.
113	Single Mode 9/125 SC To SC 3 Meter Patch Cable	CKTR0052	Provide and install Single Mode 9/125 SC To SC 3 Meter Patch Cable.
114	Single Mode 9/125 SC To SC 10 Meter Patch Cable	CKTR0053	Provide and install Single Mode 9/125 SC To SC 10 Meter Patch Cable.
115	Single Mode 9/125 SC To LC 1 Meter Patch Cable	CKTR0054	Provide and install Single Mode 9/125 SC To LC 1 Meter Patch Cable.
116	Single Mode 9/125 SC To LC 3 Meter Patch Cable	CKTR0055	Provide and install Single Mode 9/125 SC To LC 3 Meter Patch Cable.
117	Single Mode 9/125 SC To LC 10 Meter Patch Cable	CKTR0056	Provide and install Single Mode 9/125 SC To LC 10 Meter Patch Cable.
118	Single Mode 9/125 LC To LC 1 Meter Patch Cable	CKTR0057	Provide and install Single Mode 9/125 LC To LC 1 Meter Patch Cable.
119	Single Mode 9/125 LC To LC 3 Meter Patch Cable	CKTR0058	Provide and install Single Mode 9/125 LC To LC 3 Meter Patch Cable.
120	Single Mode 9/125 LC To LC 10 Meter Patch Cable	CKTR0059	Provide and install Single Mode 9/125 LC To LC 10 Meter Patch Cable.
Regular Hours Extended Demarcation Wiring Services - Backbone and Circuit Extension Termination and/or Testing.			
121	Copper cable termination per pair (25 pair and larger)	CKBR0001	Labor and consumables to terminate and test media.
122	Copper cable splicing per pair (25 pair and larger)	CKBR0002	Labor and consumables to splice and test media.
123	Copper cable testing per pair (25 pair and larger)	CKBR0003	Labor to perform continuity test.
124	Tone, locate, test, tag and document Circuit	CKBR0004	Test and Tone on both sides of a single circuit, copper pair, between termination points.
125	Install Fiber termination connector	CKBR0006	Install Fiber termination connector - Labor only.
126	Splice Fiber per strand	CKBR0007	Splice Fiber per strand. Labor only - SM or MM.
127	Fiber testing per strand	CKBR0008	OTDR
128	Provide 4-pair CAT5e termination and testing	CKBR0009	Labor only. Includes BICSI standard testing (end to end)

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
129	Terminate and test 4-pair Cat 6	CKBR0010	Labor only. Includes BICSI standard testing (end to end)
130	Terminate 4-pair Cat 6	CKBR0011	Reterminate one end only jack or patch panel
131	Test 4-pair Cat 6	CKBR0012	Test only Includes BICSI standard testing (end to end)
132	Terminate and test 4-pair Cat 6A	CKBR0013	Labor only. Includes BICSI standard testing (end to end)
133	Terminate 4-pair Cat 6A	CKBR0014	Reterminate one end only jack or patch panel
134	Test 4-pair Cat 6A	CKBR0015	Test only Includes BICSI standard testing (end to end)
Regular Hours Extended Demarcation Wiring Services - Station Cabling, Cable Placement and Consumables Only - pull line in place			
135	Single 4-pair Cat 6 PVC cable for voice or data application	SCBR0001	Provide and Install single 4-pair Cat 6 PVC cable for voice or data application
136	Single 4-pair Cat 6 plenum cable for voice or data application	SCBR0002	Provide and Install single 4-pair Cat 6 plenum cable for voice or data application
137	Single 4-pair Cat 6 OSP cable for voice or data application	SCBR0003	Provide and Install single 4-pair Cat 6 OSP cable for voice or data application
138	Single 4-pair Cat 6A PVC cable for voice or data application	SCBR0004	Provide and Install single 4-pair Cat 6A PVC cable for voice or data application
139	Single 4-pair Cat 6A plenum cable for voice or data application	SCBR0005	Provide and Install single 4-pair Cat 6A plenum cable for voice or data application
140	Single 4-pair Cat 6A OSP cable for voice or data application	SCBR0006	Provide and Install single 4-pair Cat 6A OSP cable for voice or data application
Regular Hours Extended Demarcation Wiring Services - Additional Components (Material and Labor to install)			
141	One 24-port unloaded Cat 5E/6/6A Patch Panel	MLIR0001	Provide and install one 24-port unloaded Cat 6A Patch Panel
142	One 48-port unloaded Cat 5E/6/6A Patch Panel	MLIR0002	Provide and install one 48-port unloaded Cat 6A Patch Panel
143	New 24-port Cat 6 patch panel	MLIR0003	Provide and install new 24-port Cat 6 patch panel
144	New 48-port Cat 6 patch panel	MLIR0004	Provide and install new 48-port Cat 6 patch panel

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
145	New 24-port Cat 6A patch panel	MLIR0005	Provide and install new 24-port Cat 6A patch panel
146	New 48-port Cat 6A patch panel	MLIR0006	Provide and install new 48-port Cat 6A patch panel
147	New 12-port Cat 6 patch panel	MLIR0007	Provide and install new 12-port Cat 6 patch panel
148	Face plate plastic	MLIR0008	Provide and install face plate plastic
149	Modular furniture device plate	MLIR0009	Provide and install modular furniture device plate
150	4-port stainless steel faceplate	MLIR0010	Provide and install 4-port stainless steel faceplate
151	6-port stainless steel faceplate	MLIR0011	Provide and install 6-port stainless steel faceplate
152	Cat 6 jack insert	MLIR0012	Provide and install Cat 6 jack insert
153	Cat 6A jack insert	MLIR0013	Provide and install Cat 6A jack insert
154	3' Cat 5e patch cord	MLIR0014	Provide and install 3' Cat 5e patch cord
155	5' Cat 5e patch cord	MLIR0015	Provide and install 5' Cat 5e patch cord
156	7' Cat 5e patch cord	MLIR0016	Provide and install 7' Cat 5e patch cord
157	10' Cat 5e patch cord	MLIR0017	Provide and install 10' Cat 5e patch cord
158	3' Cat 6 patch cord	MLIR0018	Provide and install 3' Cat 6 patch cord
159	5' Cat 6 patch cord	MLIR0019	Provide and install 5' Cat 6 patch cord
160	7' Cat 6 patch cord	MLIR0020	Provide and install 7' Cat 6 patch cord
161	10' Cat 6 patch cord	MLIR0021	Provide and install 10' Cat 6 patch cord
162	15' Cat 6 patch cord	MLIR0022	Provide and install 15' Cat 6 patch cord
163	25' Cat 6 patch cord	MLIR0023	Provide and install 25' Cat 6 patch cord
164	Velcro Ties (roll 25 yards)	MLIR0024	Provide and install Velcro Ties (roll 25 yards)
165	Fiber splice closure	MLIR0025	Provide and install Fiber splice closure. OSP rated.
166	Fiber splice tray	MLIR0026	Provide and install Fiber splice tray.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
167	Copper splice case 4.0x25	MLIR0027	Provide and install Copper splice case 4.0x25. OSP rated.
168	Copper splice case 6.5x28	MLIR0028	Provide and install Copper splice case 6.5x28. OSP rate.
169	Provide Copper splice module 25 pair (material only)	MLIR0029	Provide Copper splice module 25 pair (material only).
Regular Hours Extended Demarcation Wiring Services - Pathway			
170	Rod & rope conduit	PTHR0001	Pull string or rope provided, rope will be sized appropriately to conduit size.
171	Rod, rope and place up to 3 1" innerducts in same conduit	PTHR0002	Provide rod, rope and place up to 3 1" innerducts in the same conduit.
172	One stick (10') of 1" EMT & three (3) 2-hole straps	PTHR0003	Provide and install one stick (10') of 1" EMT & three (3) 2-hole straps.
173	One stick (10') of 1 1/4" EMT & three (3) 2-hole straps	PTHR0004	Provide and install one stick (10') of 1 1/4" EMT & three (3) 2-hole straps.
174	One stick (10') of 2" EMT & three (3) 2-hole straps	PTHR0005	Provide and install one stick (10') of 2" EMT & three (3) 2-hole straps.
175	One stick (10') of 1" Rigid & three (3) 2-hole straps	PTHR0006	Provide and install one stick (10') of 1" Rigid & three (3) 2-hole straps.
176	One stick (10') of 1 1/4" Rigid & three (3) 2-hole straps	PTHR0007	Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps.
177	One stick (10') of 2" Rigid & three (3) 2-hole straps	PTHR0008	Provide and install one stick (10') of 2" Rigid & three (3) 2-hole straps.
178	One stick (10') of 3" EMT & three (3) 2-hole straps	PTHR0009	Provide and install one stick (10') of 3" EMT & three (3) 2-hole straps.
179	One stick (10') of 4" EMT & three (3) 2-hole straps	PTHR0010	Provide and install one stick (10') of 4" EMT & three (3) 2-hole straps.
180	One Stick (10') of 2" SCH 80 PVC	PTHR0011	Provide and install one stick (10') of 2" SCH 80 PVC & three (3) 2-hole straps.
181	One Stick (10') of 4" SCH 80 PVC	PTHR0012	Provide and install one stick (10') of 4" SCH 80 PVC & three (3) 2-hole straps.
182	One 1" EMT Stub up from device box to above ceiling including straps, connector and bushing	PTHR0013	Provide and install one 1" EMT Stub up from device box to above ceiling including straps, connector and bushing.
183	Surface mount box	PTHR0014	Provide and install Surface mount box.
184	1" 2-hole strap, EMT	PTHR0015	Provide and install 1" 2-hole strap, EMT.
185	1" bushing, EMT	PTHR0016	Provide and install 1" bushing, EMT.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
186	1" compression connector, EMT	PTHR0017	Provide and install 1" compression connector, EMT.
187	1" compression coupler, EMT	PTHR0018	Provide and install 1" compression coupler, EMT.
188	1" Chase Nipple	PTHR0019	Provide and install 1" Chase Nipple
189	1" Unistrut clamp, EMT	PTHR0020	Provide and install 1" Unistrut clamp, EMT.
190	2" 2-hole strap, EMT	PTHR0021	Provide and install 2" 2-hole strap, EMT.
191	2" bushing, EMT	PTHR0022	Provide and install 2" bushing, EMT.
192	2" compression connector, EMT	PTHR0023	Provide and install 2" compression connector, EMT.
193	2" compression coupler, EMT	PTHR0024	Provide and install 2" compression coupler, EMT.
194	2" Chase Nipple	PTHR0025	Provide and install 2" Chase Nipple
195	2" Unistrut clamp, EMT	PTHR0026	Provide and install 2" Unistrut clamp, EMT.
196	3" 2-hole strap, EMT	PTHR0027	Provide and install 3" 2-hole strap, EMT.
197	3" bushing, EMT	PTHR0028	Provide and install 3" bushing, EMT.
198	Provide and install 3" compression connector, EMT	PTHR0029	Provide and install 3" compression connector, EMT.
199	3" compression coupler, EMT	PTHR0030	Provide and install 3" compression coupler, EMT.
200	3" Unistrut clamp, EMT	PTHR0031	Provide and install 3" Unistrut clamp, EMT.
201	4" 2-hole strap, EMT	PTHR0032	Provide and install 4" 2-hole strap, EMT.
202	4" bushing, EMT	PTHR0033	Provide and install 4" bushing, EMT.
203	4" compression connector, EMT	PTHR0034	Provide and install 4" compression connector, EMT.
204	4" compression coupler, EMT	PTHR0035	Provide and install 4" compression coupler, EMT.
205	4" Unistrut clamp, EMT	PTHR0036	Provide and install 4" Unistrut clamp, EMT.
206	4" Chase Nipple	PTHR0037	Provide and install 4" Chase Nipple
207	1" 2-hole strap, Rigid	PTHR0038	Provide and install 1" 2-hole strap, Rigid.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
208	1" bushing, Rigid	PTHR0039	Provide and install 1" bushing, Rigid.
209	1" compression connector, Rigid	PTHR0040	Provide and install 1" compression connector, Rigid.
210	1" compression coupler, Rigid	PTHR0041	Provide and install 1" compression coupler, Rigid.
211	1" Unistrut clamp, Rigid	PTHR0042	Provide and install 1" Unistrut clamp, Rigid.
212	2" 2-hole strap, Rigid	PTHR0043	Provide and install 2" 2-hole strap, Rigid.
213	2" bushing, Rigid	PTHR0044	Provide and install 2" bushing, Rigid.
214	2" compression connector, Rigid	PTHR0045	Provide and install 2" compression connector, Rigid.
215	2" compression coupler, Rigid	PTHR0046	Provide and install 2" compression coupler, Rigid.
216	2" Unistrut clamp, Rigid	PTHR0047	Provide and install 2" Unistrut clamp, Rigid.
217	2" threaded connector, PVC	PTHR0048	Provide and install 2" threaded connector, PVC
218	2" coupler, PVC	PTHR0049	Provide and install 2" coupler, PVC
219	4" threaded connector, PVC	PTHR0050	Provide and install 4" threaded connector, PVC
220	4" coupler, PVC	PTHR0051	Provide and install 4" coupler, PVC
221	2" J-Hook w/multipurpose clip	PTHR0052	Provide and install 2" J-Hook w/multipurpose clip.
222	1" J-Hook w/multipurpose clip	PTHR0053	Provide and install 1" J-Hook w/multipurpose clip
223	3" J-Hook w/multipurpose clip	PTHR0054	Provide and install 3" J-Hook w/multipurpose clip
224	Pencil Rod (for J-Hook mounting)	PTHR0055	Provide and install Pencil Rod (for J-Hook mounting)
225	Stringer wire (for j-hook mounting)	PTHR0056	Provide and install Stringer wire (for j-hook mounting)
226	Bell box (raco 5387-0)	PTHR0057	Provide and install Bell box (raco 5387-0).
227	8"x8"x6" pull box NEMA 1	PTHR0058	Provide and install 8"x8"x6" pull box NEMA 1.
228	12"x12"x8" NEMA 1 junction box NEMA 1	PTHR0059	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 1.
229	12"x12"x8" NEMA 1 junction box NEMA 3	PTHR0060	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 3.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
230	18"x18"x8" NEMA 3 junction box	PTHR0061	Provide and install 18"x18"x8" NEMA 3 junction box
231	Install customer provided WAP (Wireless Access Point); (does not include configuration)	PTHR0063	Install customer provided WAP (Wireless Access Point); (does not include configuration).
232	WAP (Wireless Access Point) Enclosure	PTHR0064	Provide and install WAP (Wireless Access Point) Enclosure
233	Install customer provided Camera (does not include configuration)	PTHR0065	Install customer provided Camera (does not include configuration).
234	Install customer provided paging speaker Drop Tile Ceiling	PTHR0066	Install customer provided paging speaker Drop Tile Ceiling. Includes installation hardware; speaker is not included
235	Unistrut slotted 7/8"	PTHR0067	Provide and install Unistrut slotted 7/8". Includes installation hardware; speaker is not included.
236	1" Unistrut straps	PTHR0068	Provide and install 1" Unistrut straps.
237	2" Unistrut straps	PTHR0069	Provide and install 2" Unistrut straps.
238	1" EMT sleeve (core or penetration not included)	PTHR0070	Provide and install 1" EMT sleeve (core or penetration not included).
239	2" EMT sleeve (core or penetration not included)	PTHR0071	Provide and install 2" EMT sleeve (core or penetration not included).
240	3" EMT sleeve (core or penetration not included)	PTHR0072	Provide and install 3" EMT sleeve (core or penetration not included).
241	4" EMT sleeve (core or penetration not included)	PTHR0073	Provide and install 4" EMT sleeve (core or penetration not included).
242	8"x8"x6" pull box NEMA R3	PTHR0074	Provide and install 8"x8"x6" pull box NEMA R3.
Regular Hours Extended Demarcation Wiring Services - Raceway			
243	Raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16")	RCWR0001	Provide and install raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16").
244	Raceway Cover clip 2306	RCWR0002	Provide and install raceway Cover clip 2306.
245	Raceway Internal elbow 2317DF0	RCWR0003	Provide and install raceway Internal elbow 2317DF0.
246	Raceway External bend 2318DF0	RCWR0004	Provide and install raceway External bend 2318DF0.
247	Raceway Flat elbow 2311DF0	RCWR0005	Provide and install raceway Flat elbow 2311DF0.
248	Raceway Wire clip ivory 2300WC	RCWR0006	Provide and install raceway Wire clip ivory 2300WC.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
249	Raceway Blank end fitting 2310B	RCWR0007	Provide and install raceway Blank end fitting 2310B.
250	Raceway Entrance fitting 2310A	RCWR0008	Provide and install raceway Entrance fitting 2310A.
251	Raceway Tee 2315	RCWR0009	Provide and install raceway Tee 2315.
Regular Hours Extended Demarcation Wiring Services - Other Tasks			
252	Core Drilling, 1" hole	DRLR0001	Core Drilling, 1" hole.
253	Core Drilling, 2" hole	DRLR0002	Core Drilling, 2" hole.
254	Core Drilling, 3" hole	DRLR0003	Core Drilling, 3" hole.
255	Core Drilling, 4" hole	DRLR0004	Core Drilling, 4" hole.
256	Wall penetration - drywall	WPNR0000	Wall penetration – drywall.
257	Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees)	LFTR0000	For contractor use in support of SRI services. Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees)
258	CAD Drawing	CDDR0000	CAD Draftsman Services
259	Fire Seal Penetration, 1" hole	FSPR0001	Fire Seal Penetration, 1" hole.
260	Fire Seal Penetration, 2" hole	FSPR0002	Fire Seal Penetration, 2" hole.
261	Fire Seal Penetration, 3" hole	FSPR0003	Fire Seal Penetration, 3" hole.
262	Fire Seal Penetration, 4" hole	FSPR0004	Fire Seal Penetration, 4" hole.
263	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation of 2 - 8' x 5/8" ground rods and # 6 ground wire)	IQPR0000	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation of 2 - 8' x 5/8" ground rods and # 6 ground wire).
264	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire.	IQLR0000	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire.
265	12" Grounding Buss Bar with TMGB Pattern	GBBR0012	Provide and install 12" Grounding Buss Bar with TMGB Pattern
266	20" Grounding Buss Bar with TMGB Pattern	GBBR0020	Provide and install 20" Grounding Buss Bar with TMGB Pattern
267	1/4" Compression Grounding Lugs	CMGR0000	Provide and install 1/4" Compression Grounding Lugs

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
268	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation	RLCR0000	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation.
269	Install new cross-connect	ICCR0000	Install new cross-connect.
Overtime Hours Extended Demarcation Wiring Services - Telco Room - MDF/IDF/MPOE			
270	Install customer provided UPS	TMIO0001	Install customer provided UPS
271	Cable 48-port switch (patch cords)	TMIO0002	Install patch cords in customer provided device. Total of 48 patch cords provided and installed.
272	7' 2-post rack	TMIO0003	Provide and install 7' 2-post rack
273	7' 4-post rack	TMIO0004	Provide and install 7' 4-post rack
274	36"Hx19"Wx24"D CUBE-IT Wallmount Enclosure with Plexi Door Black	TMIO0005	Provide and install 36"Hx19"Wx24"D CUBE-IT Wallmount Enclosure with Plexi Door Black
275	Fan Kit for CUBE-IT Enclosure	TMIO0006	Provide and install Fan Kit for CUBE-IT Enclosure
276	Filter Kit for CUBE-IT Enclosure	TMIO0007	Provide and install Filter Kit for CUBE-IT Enclosure
277	26"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure	TMIO0008	Provide and install 26"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure
278	36"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure	TMIO0009	Provide and install 36"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure
279	Thinline II Duplex Receptacle Surge-Suppressed	TMIO0010	Provide and install Thinline II Duplex Receptacle Surge-Suppressed
280	Thinline II Intelligent Fan kit	TMIO0011	Provide and install Thinline II Intelligent Fan kit
281	14.5"Hx23.63"Wx17.7"D SmartRack Low Profile 6U Locking Wall Enclosure	TMIO0012	14.5"Hx23.63"Wx17.7"D SmartRack Low Profile 6U Locking Wall Enclosure
282	Install customer provided rack	TMIO0013	Install customer provided rack
283	Horizontal wire manager	TMIO0014	Install and provide horizontal wire manager
284	Vertical wire manager	TMIO0015	Install and provide vertical wire manager
285	Install customer provided wire manager	TMIO0016	Install customer provided wire manager
286	Shelf (single sided 3U)	TMIO0017	Provide and Install each shelf (single sided 3U)

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
287	Customer provided shelf	TMIO0018	Install customer provided shelf
288	Hinged Wall Bracket	TMIO0019	Provide and install Hinged Wall Bracket
289	4' x 4' x 3/4" painted plywood backboard	TMIO0020	Provide and install 4' x 4' x 3/4" painted plywood backboard – fire rated
290	4' x 8' x 3/4" painted plywood backboard	TMIO0021	Provide and install 4' x 8' x 3/4" painted plywood backboard – fire rated
291	Power strip (4 outlets)	TMIO0022	Provide and Install each power strip (4 outlets). Standard plug in power strip
292	10' of 12" ladder rack and support hardware	TMIO0023	Provide and install up to 10' of 12" ladder rack and support hardware
293	Communication pole 10 feet	TMIO0024	Provide and install Communication pole 10 feet. Matches existing modular furniture manufacturer if available
294	One (1) 20 Amp Duplex Outlet within 75' of Existing Panel	TMIO0025	Provide and install one (1) 20 Amp Duplex Outlet within 75' of Existing Panel. Not to exceed price. IPR available for reduced rates.
Overtime Hours Extended Demarcation Wiring Services - Backbone Cabling Placing and Consumables:			
295	6-strand MM ISP fiber	CBLO0001	Provide and install 6-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum
296	6-strand SM ISP fiber	CBLO0002	Provide and install 6-strand SM ISP fiber. 8.3 μ fiber plenum
297	12-strand MM ISP fiber	CBLO0003	Provide and install 12-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum
298	12-strand SM ISP Fiber	CBLO0004	Provide and install 12-strand SM ISP fiber. 8.3 μ fiber plenum
299	6-strand MM Indoor/Outdoor Fiber	CBLO0005	Provide and install 6-strand MM Indoor/Outdoor fiber
300	6-strand SM Indoor/Outdoor Fiber	CBLO0006	Provide and install 6-strand SM Indoor/Outdoor fiber
301	12-strand MM Indoor/Outdoor Fiber	CBLO0007	Provide and install 12-strand MM Indoor/Outdoor fiber
302	12-strand SM Indoor/Outdoor Fiber	CBLO0008	Provide and install 12-strand SM Indoor/Outdoor fiber
303	6-strand SM OSP Loose Tube underground fiber	CBLO0009	Provide and install 6-strand SM OSP Loose Tube underground fiber

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
304	12-strand SM OSP Loose Tube underground fiber	CBLO0010	Provide and install 12-strand SM OSP Loose Tube underground fiber
305	24-strand SM OSP Loose Tube underground fiber	CBLO0011	Provide and install 24-strand SM OSP Loose Tube underground fiber
306	48-strand SM OSP Loose Tube underground fiber	CBLO0012	Provide and install 48-strand SM OSP Loose Tube underground fiber
307	24-strand SM Indoor/Outdoor Fiber	CBLO0013	Provide and install 24-strand SM Indoor/Outdoor fiber
308	48-strand SM Indoor/Outdoor fiber	CBLO0014	Provide and install 48-strand SM Indoor/Outdoor fiber
309	6-strand Fanout Kit SingleMode	CBLO0015	Provide and install 6-strand Fanout Kit SingleMode
310	6-strand Fanout Kit MultiMode	CBLO0016	Provide and install 6-strand Fanout Kit MultiMode
311	12-strand Fanout Kit SingleMode	CBLO0017	Provide and install 12-strand Fanout Kit SingleMode
312	12-strand Fanout Kit MultiMode	CBLO0018	Provide and install 12-strand Fanout Kit MultiMode
313	1" innerduct underground in existing duct	CBLO0019	Provide and install 1" innerduct underground in existing duct. Override situations will be accessed by contractor for viability
314	1 1/4" innerduct underground in existing duct	CBLO0020	Provide and install 1 1/4" innerduct underground in existing duct. Override situations will be accessed by contractor for viability
315	25-pair copper ISP	CBLO0021	Provide and install 25-pair copper ISP. Plenum
316	25-pair copper underground OSP	CBLO0022	Provide and install 25-pair copper underground OSP
317	50-pair copper ISP	CBLO0023	Provide and install 50-pair copper ISP. Plenum
318	50-pair copper underground OSP	CBLO0024	Provide and install 50-pair copper underground OSP
319	100-pair copper ISP	CBLO0025	Provide and install 100-pair copper ISP. Plenum
320	100-pair copper underground OSP	CBLO0026	Provide and install 100-pair copper underground OSP
Overtime Hours Extended Demarcation Wiring Services - Backbone and Circuit Extension Cable Placing and Consumables:			
321	300' Cat 6 copper ISP circuit extension	CRBO0001	Provide and install up to 300' Cat 6 copper ISP circuit extension. Plenum

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
322	300' Cat 6 copper OSP circuit extension	CRBO0002	Provide and install up to 300' Cat 6 copper OSP circuit extension
323	300' 25-pair copper ISP circuit extension	CRBO0003	Provide and install up to 300' 25-pair copper ISP circuit extension. Plenum
324	300' 25-pair copper OSP circuit extension	CRBO0004	Provide and install up to 300' 25-pair copper OSP circuit extension
325	300' RG58 COAX ISP	CRBO0005	Provide and install up to 300' RG58 COAX ISP. Plenum
326	300' RG62 COAX ISP	CRBO0006	Provide and install up to 300' RG62 COAX ISP. Plenum
327	300' RG6 COAX ISP	CRBO0007	Provide and install up to 300' RG6 COAX ISP. Plenum
Overtime Hours Extended Demarcation Wiring Services - Backbone and Circuit Extension - Termination Hardware:			
328	25-pair protector	CKTO0001	Provide and install 25-pair protector. Gas modules or match existing
329	50-pair protector	CKTO0002	Provide and install 50-pair protector. Gas modules or match existing
330	100-pair protector	CKTO0003	Provide and install 100-pair protector. Gas modules or match existing
331	4-pair protector	CKTO0004	Provide and install 4-pair protector. Gas modules or match existing
332	Protector modules	CKTO0005	Provide and install protector modules. Gas modules or match existing
333	BIX mount 250-pair	CKTO0006	Provide and install BIX mount 250-pair
334	BIX connector	CKTO0007	Provide and install BIX connector
335	BIX ring	CKTO0008	Provide and install BIX ring
336	66-type Block 50 pair	CKTO0009	Provide and install 66-type Block 50 pair
337	110-style block 100 pair kit	CKTO0010	Provide and install 110-style block 100 pair kit. Includes C4 or C5 clips
338	Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	CKTO0011	Provide and install Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately
339	Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	CKTO0012	Provide and install Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
340	Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	CKTO0013	Provide and install Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately
341	Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	CKTO0014	Provide and install Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately
342	6-strand connector panel MM 50/125 SC	CKTO0015	Provide and Install 6-strand connector panel MM 50/125 SC. Complete with couplers
343	6-strand connector panel MM 50/125 LC	CKTO0016	Provide and install 6-strand connector panel MM 50/125 LC. Complete with couplers
344	6-strand connector panel MM 62.5/125 SC	CKTO0017	Provide and install 6-strand connector panel MM 62.5/125 SC. Complete with couplers
345	6-strand connector panel MM 62.5/125 LC	CKTO0018	Provide and install 6-strand connector panel MM 62.5/125 LC. Complete with couplers
346	12-strand connector panel MM 50/125 SC	CKTO0019	Provide and install 12-strand connector panel MM 50/125 SC. Complete with couplers
347	12-strand connector panel MM 50/125 LC	CKTO0020	Provide and install 12-strand connector panel MM 50/125 LC. Complete with couplers
348	12-strand connector panel MM 62.5/125 SC	CKTO0021	Provide and install 12-strand connector panel MM 62.5/125 SC. Complete with couplers
349	12-strand connector panel MM 62.5/125 LC	CKTO0022	Provide and install 12-strand connector panel MM 62.5/125 LC, Complete with couplers
350	6-strand connector panel SM SC	CKTO0023	Provide and install 6-strand connector panel SM SC. Complete with couplers
351	6-strand connector panel SM LC	CKTO0024	Provide and install 6-strand connector panel SM LC. Complete with couplers
352	12-strand connector panel SM SC	CKTO0025	Provide and install 12-strand connector panel SM SC. Complete with couplers
353	12-strand connector panel SM LC	CKTO0026	Provide and install 12-strand connector panel SM LC. Complete with couplers

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
354	Provide SC Compatible 50µm Multimode connector (material only)	CKTO0027	Provide SC Compatible 50µm Multimode connector (material only). Provide SC Compatible 50µm Multimode connector (material only). Provide SC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers CKBO0006 or CKBO0007 and CKBO0008.
355	Provide SC Compatible 62.5µm Multimode connector (material only)	CKTO0028	Provide SC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers CKBO0006 or CKBO0007 and CKBO0008.
356	Provide SC Compatible Single Mode connector (material only)	CKTO0029	Provide SC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers CKBO0006 or CKBO0007 and CKBO0008.
357	Provide LC Compatible 50µm Multimode connector (material only)	CKTO0030	Provide LC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers CKBO0006 or CKBO0007 and CKBO0008.
358	Provide LC Compatible 62.5µm Multimode connector (material only)	CKTO0031	Provide LC Compatible 62.5µm Multimode connector (material only). Must be ordered with Product Identifiers CKBO0006 or CKBO0007 and CKBO0008.
359	Provide LC Compatible Single Mode connector (material only)	CKTO0032	Provide LC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers CKBO0006 or CKBO0007 and CKBO0008.
360	Multimode 62.5/125 SC To SC 1 Meter Patch Cable	CKTO0033	Provide and install Multimode 62.5/125 SC To SC 1 Meter Patch Cable.
361	Multimode 62.5/125 SC To SC 3 Meter Patch Cable	CKTO0034	Provide and install Multimode 62.5/125 SC To SC 3 Meter Patch Cable.
362	Multimode 62.5/125 SC To SC 10 Meter Patch Cable	CKTO0035	Provide and Install Multimode 62.5/125 SC To SC 10 Meter Patch Cable.
363	Multimode 62.5/125 SC To LC 1 Meter Patch Cable	CKTO0036	Provide and install Multimode 62.5/125 SC To LC 1 Meter Patch Cable.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
364	Multimode 62.5/125 SC To LC 3 Meter Patch Cable	CKTO0037	Provide and install Multimode 62.5/125 SC To LC 3 Meter Patch Cable.
365	Multimode 62.5/125 SC To LC 10 Meter Patch Cable	CKTO0038	Provide and install Multimode 62.5/125 SC To LC 10 Meter Patch Cable.
366	Multimode 62.5/125 LC To LC 1 Meter Patch Cable	CKTO0039	Provide and install Multimode 62.5/125 LC To LC 1 Meter Patch Cable.
367	Multimode 62.5/125 LC To LC 3 Meter Patch Cable	CKTO0040	Provide and install Multimode 62.5/125 LC To LC 3 Meter Patch Cable.
368	Multimode 62.5/125 LC To LC 10 Meter Patch Cable	CKTO0041	Provide and install Multimode 62.5/125 LC To LC 10 Meter Patch Cable.
369	Multimode 50/125 SC To SC 1 Meter Patch Cable	CKTO0042	Provide and install Multimode 50/125 SC To SC 1 Meter Patch Cable.
370	Multimode 50/125 SC To SC 3 Meter Patch Cable	CKTO0043	Provide and install Multimode 50/125 SC To SC 3 Meter Patch Cable.
371	Multimode 50/125 SC To SC 10 Meter Patch Cable	CKTO0044	Provide and install Multimode 50/125 SC To SC 10 Meter Patch Cable.
372	Multimode 50/125 SC To LC 1 Meter Patch Cable	CKTO0045	Provide and install Multimode 50/125 SC To LC 1 Meter Patch Cable.
373	Multimode 50/125 SC To LC 3 Meter Patch Cable	CKTO0046	Provide and install Multimode 50/125 SC To LC 3 Meter Patch Cable.
374	Multimode 50/125 SC To LC 10 Meter Patch Cable	CKTO0047	Provide and install Multimode 50/125 SC To LC 10 Meter Patch Cable.
375	Multimode 50/125 LC To LC 1 Meter Patch Cable	CKTO0048	Provide and install Multimode 50/125 LC To LC 1 Meter Patch Cable.
376	Multimode 50/125 LC To LC 3 Meter Patch Cable	CKTO0049	Provide and install Multimode 50/125 LC To LC 3 Meter Patch Cable.
377	Multimode 50/125 LC To LC 10 Meter Patch Cable	CKTO0050	Provide and install Multimode 50/125 LC To LC 10 Meter Patch Cable.
378	Single Mode 9/125 SC To SC 1 Meter Patch Cable	CKTO0051	Provide and install Single Mode 9/125 SC To SC 1 Meter Patch Cable.
379	Single Mode 9/125 SC To SC 3 Meter Patch Cable	CKTO0052	Provide and install Single Mode 9/125 SC To SC 3 Meter Patch Cable.
380	Single Mode 9/125 SC To SC 10 Meter Patch Cable	CKTO0053	Provide and install Single Mode 9/125 SC To SC 10 Meter Patch Cable.
381	Single Mode 9/125 SC To LC 1 Meter Patch Cable	CKTO0054	Provide and install Single Mode 9/125 SC To LC 1 Meter Patch Cable.
382	Single Mode 9/125 SC To LC 3 Meter Patch Cable	CKTO0055	Provide and install Single Mode 9/125 SC To LC 3 Meter Patch Cable.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
383	Single Mode 9/125 SC To LC 10 Meter Patch Cable	CKTO0056	Provide and install Single Mode 9/125 SC To LC 10 Meter Patch Cable.
384	Single Mode 9/125 LC To LC 1 Meter Patch Cable	CKTO0057	Provide and install Single Mode 9/125 LC To LC 1 Meter Patch Cable.
385	Single Mode 9/125 LC To LC 3 Meter Patch Cable	CKTO0058	Provide and install Single Mode 9/125 LC To LC 3 Meter Patch Cable.
386	Single Mode 9/125 LC To LC 10 Meter Patch Cable	CKTO0059	Provide and install Single Mode 9/125 LC To LC 10 Meter Patch Cable.
Overtime Hours Extended Demarcation Wiring Services - Backbone and Circuit Extension Termination and/or Testing.			
387	Copper cable termination per pair (25 pair and larger)	CKBO0001	Labor and consumables to terminate and test media.
388	Copper cable splicing per pair (25 pair and larger)	CKBO0002	Labor and consumables to splice and test media.
389	Copper cable testing per pair (25 pair and larger)	CKBO0003	Labor to perform continuity test.
390	Tone, locate, test, tag and document Circuit	CKBO0004	Test and Tone on both sides of a single circuit, copper pair, between termination points.
391	Install Fiber termination connector	CKBO0006	Install Fiber termination connector - Labor only.
392	Splice Fiber per strand	CKBO0007	Splice Fiber per strand. Labor only - SM or MM.
393	Fiber testing per strand	CKBO0008	OTDR
394	Provide 4-pair CAT5e termination and testing	CKBO0009	Labor only. Includes BICSI standard testing (end to end)
395	Terminate and test 4-pair Cat 6	CKBO0010	Labor only. Includes BICSI standard testing (end to end)
396	Terminate 4-pair Cat 6	CKBO0011	Reterminate one end only jack or patch panel
397	Test 4-pair Cat 6	CKBO0012	Test only Includes BICSI standard testing (end to end)
398	Terminate and test 4-pair Cat 6A	CKBO0013	Labor only. Includes BICSI standard testing (end to end)
399	Terminate 4-pair Cat 6A	CKBO0014	Reterminate one end only jack or patch panel
400	Test 4-pair Cat 6A	CKBO0015	Test only Includes BICSI standard testing (end to end)

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
Overtime Hours Extended Demarcation Wiring Services - Station Cabling, Cable Placement and Consumables Only - pull line in place			
401	Single 4-pair Cat 6 PVC cable for voice or data application	SCBO0001	Provide and Install single 4-pair Cat 6 PVC cable for voice or data application
402	Single 4-pair Cat 6 plenum cable for voice or data application	SCBO0002	Provide and Install single 4-pair Cat 6 plenum cable for voice or data application
403	Single 4-pair Cat 6 OSP cable for voice or data application	SCBO0003	Provide and Install single 4-pair Cat 6 OSP cable for voice or data application
404	Single 4-pair Cat 6A PVC cable for voice or data application	SCBO0004	Provide and Install single 4-pair Cat 6A PVC cable for voice or data application
405	Single 4-pair Cat 6A plenum cable for voice or data application	SCBO0005	Provide and Install single 4-pair Cat 6A plenum cable for voice or data application
406	Single 4-pair Cat 6A OSP cable for voice or data application	SCBO0006	Provide and Install single 4-pair Cat 6A OSP cable for voice or data application
Overtime Hours Extended Demarcation Wiring Services - Additional Components (Material and Labor to install)			
407	One 24-port unloaded Cat 5E/6/6A Patch Panel	MLIO0001	Provide and install one 24-port unloaded Cat 6A Patch Panel
408	One 48-port unloaded Cat 5E/6/6A Patch Panel	MLIO0002	Provide and install one 48-port unloaded Cat 6A Patch Panel
409	New 24-port Cat 6 patch panel	MLIO0003	Provide and install new 24-port Cat 6 patch panel
410	New 48-port Cat 6 patch panel	MLIO0004	Provide and install new 48-port Cat 6 patch panel
411	New 24-port Cat 6A patch panel	MLIO0005	Provide and install new 24-port Cat 6A patch panel
412	New 48-port Cat 6A patch panel	MLIO0006	Provide and install new 48-port Cat 6A patch panel
413	New 12-port Cat 6 patch panel	MLIO0007	Provide and install new 12-port Cat 6 patch panel
414	Face plate plastic	MLIO0008	Provide and install face plate plastic
415	Modular furniture device plate	MLIO0009	Provide and install modular furniture device plate
416	4-port stainless steel faceplate	MLIO0010	Provide and install 4-port stainless steel faceplate
417	6-port stainless steel faceplate	MLIO0011	Provide and install 6-port stainless steel faceplate

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
418	Cat 6 jack insert	MLIO0012	Provide and install Cat 6 jack insert
419	Cat 6A jack insert	MLIO0013	Provide and install Cat 6A jack insert
420	3' Cat 5e patch cord	MLIO0014	Provide and install 3' Cat 5e patch cord
421	5' Cat 5e patch cord	MLIO0015	Provide and install 5' Cat 5e patch cord
422	7' Cat 5e patch cord	MLIO0016	Provide and install 7' Cat 5e patch cord
423	10' Cat 5e patch cord	MLIO0017	Provide and install 10' Cat 5e patch cord
424	3' Cat 6 patch cord	MLIO0018	Provide and install 3' Cat 6 patch cord
425	5' Cat 6 patch cord	MLIO0019	Provide and install 5' Cat 6 patch cord
426	7' Cat 6 patch cord	MLIO0020	Provide and install 7' Cat 6 patch cord
427	10' Cat 6 patch cord	MLIO0021	Provide and install 10' Cat 6 patch cord
428	15' Cat 6 patch cord	MLIO0022	Provide and install 15' Cat 6 patch cord
429	25' Cat 6 patch cord	MLIO0023	Provide and install 25' Cat 6 patch cord
430	Velcro Ties (roll 25 yards)	MLIO0024	Provide and install Velcro Ties (roll 25 yards)
431	Fiber splice closure	MLIO0025	Provide and install Fiber splice closure. OSP rated.
432	Fiber splice tray	MLIO0026	Provide and install Fiber splice tray.
433	Copper splice case 4.0x25	MLIO0027	Provide and install Copper splice case 4.0x25. OSP rated.
434	Copper splice case 6.5x28	MLIO0028	Provide and install Copper splice case 6.5x28. OSP rate.
435	Provide Copper splice module 25 pair (material only)	MLIO0029	Provide Copper splice module 25 pair (material only).
Overtime Hours Extended Demarcation Wiring Services - Pathway			
436	Rod & rope conduit	PTHO0001	Pull string or rope provided, rope will be sized appropriately to conduit size.
437	Rod, rope and place up to 3 1" innerducts in same conduit	PTHO0002	Provide rod, rope and place up to 3 1" innerducts in the same conduit.
438	One stick (10') of 1" EMT & three (3) 2-hole straps	PTHO0003	Provide and install one stick (10') of 1" EMT & three (3) 2-hole straps.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
439	One stick (10') of 1 1/4" EMT & three (3) 2-hole straps	PTHO0004	Provide and install one stick (10') of 1 1/4" EMT & three (3) 2-hole straps.
440	One stick (10') of 2" EMT & three (3) 2-hole straps	PTHO0005	Provide and install one stick (10') of 2" EMT & three (3) 2-hole straps.
441	One stick (10') of 1" Rigid & three (3) 2-hole straps	PTHO0006	Provide and install one stick (10') of 1" Rigid & three (3) 2-hole straps.
442	One stick (10') of 1 1/4" Rigid & three (3) 2-hole straps	PTHO0007	Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps.
443	One stick (10') of 2" Rigid & three (3) 2-hole straps	PTHO0008	Provide and install one stick (10') of 2" Rigid & three (3) 2-hole straps.
444	One stick (10') of 3" EMT & three (3) 2-hole straps	PTHO0009	Provide and install one stick (10') of 3" EMT & three (3) 2-hole straps.
445	One stick (10') of 4" EMT & three (3) 2-hole straps	PTHO0010	Provide and install one stick (10') of 4" EMT & three (3) 2-hole straps.
446	One Stick (10') of 2" SCH 80 PVC	PTHO0011	Provide and install one stick (10') of 2" SCH 80 PVC & three (3) 2-hole straps.
447	One Stick (10') of 4" SCH 80 PVC	PTHO0012	Provide and install one stick (10') of 4" SCH 80 PVC & three (3) 2-hole straps.
448	One 1" EMT Stub up from device box to above ceiling including straps, connector and bushing	PTHO0013	Provide and install one 1" EMT Stub up from device box to above ceiling including straps, connector and bushing.
449	Surface mount box	PTHO0014	Provide and install Surface mount box.
450	1" 2-hole strap, EMT	PTHO0015	Provide and install 1" 2-hole strap, EMT.
451	1" bushing, EMT	PTHO0016	Provide and install 1" bushing, EMT.
452	1" compression connector, EMT	PTHO0017	Provide and install 1" compression connector, EMT.
453	1" compression coupler, EMT	PTHO0018	Provide and install 1" compression coupler, EMT.
454	1" Chase Nipple	PTHO0019	Provide and install 1" Chase Nipple
455	1" Unistrut clamp, EMT	PTHO0020	Provide and install 1" Unistrut clamp, EMT.
456	2" 2-hole strap, EMT	PTHO0021	Provide and install 2" 2-hole strap, EMT.
457	2" bushing, EMT	PTHO0022	Provide and install 2" bushing, EMT.
458	2" compression connector, EMT	PTHO0023	Provide and install 2" compression connector, EMT.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
459	2" compression coupler, EMT	PTHO0024	Provide and install 2" compression coupler, EMT.
460	2" Chase Nipple	PTHO0025	Provide and install 2" Chase Nipple
461	2" Unistrut clamp, EMT	PTHO0026	Provide and install 2" Unistrut clamp, EMT.
462	3" 2-hole strap, EMT	PTHO0027	Provide and install 3" 2-hole strap, EMT.
463	3" bushing, EMT	PTHO0028	Provide and install 3" bushing, EMT.
464	Provide and install 3" compression connector, EMT	PTHO0029	Provide and install 3" compression connector, EMT.
465	3" compression coupler, EMT	PTHO0030	Provide and install 3" compression coupler, EMT.
466	3" Unistrut clamp, EMT	PTHO0031	Provide and install 3" Unistrut clamp, EMT.
467	4" 2-hole strap, EMT	PTHO0032	Provide and install 4" 2-hole strap, EMT.
468	4" bushing, EMT	PTHO0033	Provide and install 4" bushing, EMT.
469	4" compression connector, EMT	PTHO0034	Provide and install 4" compression connector, EMT.
470	4" compression coupler, EMT	PTHO0035	Provide and install 4" compression coupler, EMT.
471	4" Unistrut clamp, EMT	PTHO0036	Provide and install 4" Unistrut clamp, EMT.
472	4" Chase Nipple	PTHO0037	Provide and install 4" Chase Nipple
473	1" 2-hole strap, Rigid	PTHO0038	Provide and install 1" 2-hole strap, Rigid.
474	1" bushing, Rigid	PTHO0039	Provide and install 1" bushing, Rigid.
475	1" compression connector, Rigid	PTHO0040	Provide and install 1" compression connector, Rigid.
476	1" compression coupler, Rigid	PTHO0041	Provide and install 1" compression coupler, Rigid.
477	1" Unistrut clamp, Rigid	PTHO0042	Provide and install 1" Unistrut clamp, Rigid.
478	2" 2-hole strap, Rigid	PTHO0043	Provide and install 2" 2-hole strap, Rigid.
479	2" bushing, Rigid	PTHO0044	Provide and install 2" bushing, Rigid.
480	2" compression connector, Rigid	PTHO0045	Provide and install 2" compression connector, Rigid.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
481	2" compression coupler, Rigid	PTHO0046	Provide and install 2" compression coupler, Rigid.
482	2" Unistrut clamp, Rigid	PTHO0047	Provide and install 2" Unistrut clamp, Rigid.
483	2" threaded connector, PVC	PTHO0048	Provide and install 2" threaded connector, PVC
484	2" coupler, PVC	PTHO0049	Provide and install 2" coupler, PVC
485	4" threaded connector, PVC	PTHO0050	Provide and install 4" threaded connector, PVC
486	4" coupler, PVC	PTHO0051	Provide and install 4" coupler, PVC
487	2" J-Hook w/multipurpose clip	PTHO0052	Provide and install 2" J-Hook w/multipurpose clip.
488	1" J-Hook w/multipurpose clip	PTHO0053	Provide and install 1" J-Hook w/multipurpose clip
489	3" J-Hook w/multipurpose clip	PTHO0054	Provide and install 3" J-Hook w/multipurpose clip
490	Pencil Rod (for J-Hook mounting)	PTHO0055	Provide and install Pencil Rod (for J-Hook mounting)
491	Stringer wire (for j-hook mounting)	PTHO0056	Provide and install Stringer wire (for j-hook mounting)
492	Bell box (raco 5387-0)	PTHO0057	Provide and install Bell box (raco 5387-0).
493	8"x8"x6" pull box NEMA 1	PTHO0058	Provide and install 8"x8"x6" pull box NEMA 1.
494	12"x12"x8" NEMA 1 junction box NEMA 1	PTHO0059	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 1.
495	12"x12"x8" NEMA 1 junction box NEMA 3	PTHO0060	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 3.
496	18"x18"x8" NEMA 3 junction box	PTHO0061	Provide and install 18"x18"x8" NEMA 3 junction box
497	Install customer provided WAP (Wireless Access Point); (does not include configuration)	PTHO0063	Install customer provided WAP (Wireless Access Point); (does not include configuration).
498	WAP (Wireless Access Point) Enclosure	PTHO0064	Provide and install WAP (Wireless Access Point) Enclosure
499	Install customer provided Camera (does not include configuration)	PTHO0065	Install customer provided Camera (does not include configuration).
500	Install customer provided paging speaker Drop Tile Ceiling	PTHO0066	Install customer provided paging speaker Drop Tile Ceiling. Includes installation hardware; speaker is not included

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
501	Unistrut slotted 7/8"	PTHO0067	Provide and install Unistrut slotted 7/8". Includes installation hardware; speaker is not included.
502	1" Unistrut straps	PTHO0068	Provide and install 1" Unistrut straps.
503	2" Unistrut straps	PTHO0069	Provide and install 2" Unistrut straps.
504	1" EMT sleeve (core or penetration not included)	PTHO0070	Provide and install 1" EMT sleeve (core or penetration not included).
505	2" EMT sleeve (core or penetration not included)	PTHO0071	Provide and install 2" EMT sleeve (core or penetration not included).
506	3" EMT sleeve (core or penetration not included)	PTHO0072	Provide and install 3" EMT sleeve (core or penetration not included).
507	4" EMT sleeve (core or penetration not included)	PTHO0073	Provide and install 4" EMT sleeve (core or penetration not included).
508	8"x8"x6" pull box NEMA R3	PTHO0074	Provide and install 8"x8"x6" pull box NEMA R3.
Overtime Hours Extended Demarcation Wiring Services - Raceway			
509	Raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16")	RCWO0001	Provide and install raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16").
510	Raceway Cover clip 2306	RCWO0002	Provide and install raceway Cover clip 2306.
511	Raceway Internal elbow 2317DF0	RCWO0003	Provide and install raceway Internal elbow 2317DF0.
512	Raceway External bend 2318DF0	RCWO0004	Provide and install raceway External bend 2318DF0.
513	Raceway Flat elbow 2311DF0	RCWO0005	Provide and install raceway Flat elbow 2311DF0.
514	Raceway Wire clip ivory 2300WC	RCWO0006	Provide and install raceway Wire clip ivory 2300WC.
515	Raceway Blank end fitting 2310B	RCWO0007	Provide and install raceway Blank end fitting 2310B.
516	Raceway Entrance fitting 2310A	RCWO0008	Provide and install raceway Entrance fitting 2310A.
517	Raceway Tee 2315	RCWO0009	Provide and install raceway Tee 2315.
Overtime Hours Extended Demarcation Wiring Services - Other Tasks			
518	Core Drilling, 1" hole	DRLO0001	Core Drilling, 1" hole.
519	Core Drilling, 2" hole	DRLO0002	Core Drilling, 2" hole.
520	Core Drilling, 3" hole	DRLO0003	Core Drilling, 3" hole.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
521	Core Drilling, 4" hole	DRLO0004	Core Drilling, 4" hole.
522	Wall penetration - drywall	WPNO0000	Wall penetration – drywall.
523	Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees)	LFTO0000	For contractor use in support of SRI services. Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees)
524	CAD Drawing	CDDO0000	CAD Draftsman Services
525	Fire Seal Penetration, 1" hole	FRPO0001	Fire Seal Penetration, 1" hole.
526	Fire Seal Penetration, 2" hole	FRPO0002	Fire Seal Penetration, 2" hole.
527	Fire Seal Penetration, 3" hole	FRPO0003	Fire Seal Penetration, 3" hole.
528	Fire Seal Penetration, 4" hole	FRPO0004	Fire Seal Penetration, 4" hole.
529	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation of 2 - 8' x 5/8" ground rods and # 6 ground wire)	IQPO0000	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation of 2 - 8' x 5/8" ground rods and # 6 ground wire).
530	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire.	IQLO0000	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire.
531	12" Grounding Buss Bar with TMGB Pattern	GBBO0012	Provide and install 12" Grounding Buss Bar with TMGB Pattern
532	20" Grounding Buss Bar with TMGB Pattern	GBBO0020	Provide and install 20" Grounding Buss Bar with TMGB Pattern
533	1/4" Compression Grounding Lugs	CMGO0000	Provide and install 1/4" Compression Grounding Lugs
534	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation	RLCO0000	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation.
535	Install new cross-connect	ICCO0000	Install new cross-connect.
Sunday and Holiday Hours Extended Demarcation Wiring Services - Telco Room - MDF/IDF/MPOE			
536	Install customer provided UPS	TIMH0001	Install customer provided UPS
537	Cable 48-port switch (patch cords)	TIMH0002	Install patch cords in customer provided device. Total of 48 patch cords provided and installed.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
538	7' 2-post rack	TIMH0003	Provide and install 7' 2-post rack
539	7' 4-post rack	TIMH0004	Provide and install 7' 4-post rack
540	36"Hx19"Wx24"D CUBE-IT Wallmount Enclosure with Plexi Door Black	TIMH0005	Provide and install 36"Hx19"Wx24"D CUBE-IT Wallmount Enclosure with Plexi Door Black
541	Fan Kit for CUBE-IT Enclosure	TIMH0006	Provide and install Fan Kit for CUBE-IT Enclosure
542	Filter Kit for CUBE-IT Enclosure	TIMH0007	Provide and install Filter Kit for CUBE-IT Enclosure
543	26"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure	TIMH0008	Provide and install 26"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure
544	36"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure	TIMH0009	Provide and install 36"Hx26"Wx8.5"D Thinline II Wallmount Hinged Door Enclosure
545	Thinline II Duplex Receptacle Surge-Suppressed	TIMH0010	Provide and install Thinline II Duplex Receptacle Surge-Suppressed
546	Thinline II Intelligent Fan kit	TIMH0011	Provide and install Thinline II Intelligent Fan kit
547	14.5"Hx23.63"Wx17.7"D SmartRack Low Profile 6U Locking Wall Enclosure	TIMH0012	14.5"Hx23.63"Wx17.7"D SmartRack Low Profile 6U Locking Wall Enclosure
548	Install customer provided rack	TIMH0013	Install customer provided rack
549	Horizontal wire manager	TIMH0014	Install and provide horizontal wire manager
550	Vertical wire manager	TIMH0015	Install and provide vertical wire manager
551	Install customer provided wire manager	TIMH0016	Install customer provided wire manager
552	Shelf (single sided 3U)	TIMH0017	Provide and Install each shelf (single sided 3U)
553	Customer provided shelf	TIMH0018	Install customer provided shelf
554	Hinged Wall Bracket	TIMH0019	Provide and install Hinged Wall Bracket
555	4' x 4' x 3/4" painted plywood backboard	TIMH0020	Provide and install 4' x 4' x 3/4" painted plywood backboard – fire rated
556	4' x 8' x 3/4" painted plywood backboard	TIMH0021	Provide and install 4' x 8' x 3/4" painted plywood backboard – fire rated

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
557	Power strip (4 outlets)	TIMH0022	Provide and Install each power strip (4 outlets). Standard plug in power strip
558	10' of 12" ladder rack and support hardware	TIMH0023	Provide and install up to 10' of 12" ladder rack and support hardware
559	Communication pole 10 feet	TIMH0024	Provide and install Communication pole 10 feet. Matches existing modular furniture manufacturer if available
560	One (1) 20 Amp Duplex Outlet within 75' of Existing Panel	TIMH0025	Provide and install one (1) 20 Amp Duplex Outlet within 75' of Existing Panel. Not to exceed price. IPR available for reduced rates.
Sunday and Holiday Hours Extended Demarcation Wiring Services - Backbone Cabling Placing and Consumables:			
561	6-strand MM ISP fiber	CBLH0001	Provide and install 6-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum
562	6-strand SM ISP fiber	CBLH0002	Provide and install 6-strand SM ISP fiber. 8.3 μ fiber plenum
563	12-strand MM ISP fiber	CBLH0003	Provide and install 12-strand MM ISP fiber. 50 μ or 62.5 μ fiber plenum
564	12-strand SM ISP Fiber	CBLH0004	Provide and install 12-strand SM ISP fiber. 8.3 μ fiber plenum
565	6-strand MM Indoor/Outdoor Fiber	CBLH0005	Provide and install 6-strand MM Indoor/Outdoor fiber
566	6-strand SM Indoor/Outdoor Fiber	CBLH0006	Provide and install 6-strand SM Indoor/Outdoor fiber
567	12-strand MM Indoor/Outdoor Fiber	CBLH0007	Provide and install 12-strand MM Indoor/Outdoor fiber
568	12-strand SM Indoor/Outdoor Fiber	CBLH0008	Provide and install 12-strand SM Indoor/Outdoor fiber
569	6-strand SM OSP Loose Tube underground fiber	CBLH0009	Provide and install 6-strand SM OSP Loose Tube underground fiber
570	12-strand SM OSP Loose Tube underground fiber	CBLH0010	Provide and install 12-strand SM OSP Loose Tube underground fiber
571	24-strand SM OSP Loose Tube underground fiber	CBLH0011	Provide and install 24-strand SM OSP Loose Tube underground fiber
572	48-strand SM OSP Loose Tube underground fiber	CBLH0012	Provide and install 48-strand SM OSP Loose Tube underground fiber
573	24-strand SM Indoor/Outdoor Fiber	CBLH0013	Provide and install 24-strand SM Indoor/Outdoor fiber
574	48-strand SM Indoor/Outdoor fiber	CBLH0014	Provide and install 48-strand SM Indoor/Outdoor fiber

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
575	6-strand Fanout Kit SingleMode	CBLH0015	Provide and install 6-strand Fanout Kit SingleMode
576	6-strand Fanout Kit MultiMode	CBLH0016	Provide and install 6-strand Fanout Kit MultiMode
577	12-strand Fanout Kit SingleMode	CBLH0017	Provide and install 12-strand Fanout Kit SingleMode
578	12-strand Fanout Kit MultiMode	CBLH0018	Provide and install 12-strand Fanout Kit MultiMode
579	1" innerduct underground in existing duct	CBLH0019	Provide and install 1" innerduct underground in existing duct. Override situations will be accessed by contractor for viability
580	1 1/4" innerduct underground in existing duct	CBLH0020	Provide and install 1 1/4" innerduct underground in existing duct. Override situations will be accessed by contractor for viability
581	25-pair copper ISP	CBLH0021	Provide and install 25-pair copper ISP. Plenum
582	25-pair copper underground OSP	CBLH0022	Provide and install 25-pair copper underground OSP
583	50-pair copper ISP	CBLH0023	Provide and install 50-pair copper ISP. Plenum
584	50-pair copper underground OSP	CBLH0024	Provide and install 50-pair copper underground OSP
585	100-pair copper ISP	CBLH0025	Provide and install 100-pair copper ISP. Plenum
586	100-pair copper underground OSP	CBLH0026	Provide and install 100-pair copper underground OSP
Sunday and Holiday Hours Extended Demarcation Wiring Services - Backbone and Circuit Extension Cable Placing and Consumables:			
587	300' Cat 6 copper ISP circuit extension	CRBH0001	Provide and install up to 300' Cat 6 copper ISP circuit extension. Plenum
588	300' Cat 6 copper OSP circuit extension	CRBH0002	Provide and install up to 300' Cat 6 copper OSP circuit extension
589	300' 25-pair copper ISP circuit extension	CRBH0003	Provide and install up to 300' 25-pair copper ISP circuit extension. Plenum
590	300' 25-pair copper OSP circuit extension	CRBH0004	Provide and install up to 300' 25-pair copper OSP circuit extension
591	300' RG58 COAX ISP	CRBH0005	Provide and install up to 300' RG58 COAX ISP. Plenum
592	300' RG62 COAX ISP	CRBH0006	Provide and install up to 300' RG62 COAX ISP. Plenum

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
593	300' RG6 COAX ISP	CRBH0007	Provide and install up to 300' RG6 COAX ISP. Plenum
Sunday and Holiday Hours Extended Demarcation Wiring Services - Backbone and Circuit Extension - Termination Hardware:			
594	25-pair protector	CKTH0001	Provide and install 25-pair protector. Gas modules or match existing
595	50-pair protector	CKTH0002	Provide and install 50-pair protector. Gas modules or match existing
596	100-pair protector	CKTH0003	Provide and install 100-pair protector. Gas modules or match existing
597	4-pair protector	CKTH0004	Provide and install 4-pair protector. Gas modules or match existing
598	Protector modules	CKTH0005	Provide and install protector modules. Gas modules or match existing
599	BIX mount 250-pair	CKTH0006	Provide and install BIX mount 250-pair
600	BIX connector	CKTH0007	Provide and install BIX connector
601	BIX ring	CKTH0008	Provide and install BIX ring
602	66-type Block 50 pair	CKTH0009	Provide and install 66-type Block 50 pair
603	110-style block 100 pair kit	CKTH0010	Provide and install 110-style block 100 pair kit. Includes C4 or C5 clips
604	Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	CKTH0011	Provide and install Rack Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately
605	Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	CKTH0012	Provide and install Rack Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately
606	Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber	CKTH0013	Provide and install Wall Mount Fiber Cabinet, 2 Panel Capacity, 24 Fiber. Cabinet only. Panels purchased separately
607	Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber	CKTH0014	Provide and install Wall Mount Fiber Cabinet, 4 Panel Capacity, 48 Fiber. Cabinet only. Panels purchased separately
608	6-strand connector panel MM 50/125 SC	CKTH0015	Provide and Install 6-strand connector panel MM 50/125 SC. Complete with couplers

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
609	6-strand connector panel MM 50/125 LC	CKTH0016	Provide and install 6-strand connector panel MM 50/125 LC. Complete with couplers
610	6-strand connector panel MM 62.5/125 SC	CKTH0017	Provide and install 6-strand connector panel MM 62.5/125 SC. Complete with couplers
611	6-strand connector panel MM 62.5/125 LC	CKTH0018	Provide and install 6-strand connector panel MM 62.5/125 LC. Complete with couplers
612	12-strand connector panel MM 50/125 SC	CKTH0019	Provide and install 12-strand connector panel MM 50/125 SC. Complete with couplers
613	12-strand connector panel MM 50/125 LC	CKTH0020	Provide and install 12-strand connector panel MM 50/125 LC. Complete with couplers
614	12-strand connector panel MM 62.5/125 SC	CKTH0021	Provide and install 12-strand connector panel MM 62.5/125 SC. Complete with couplers
615	12-strand connector panel MM 62.5/125 LC	CKTH0022	Provide and install 12-strand connector panel MM 62.5/125 LC. Complete with couplers
616	6-strand connector panel SM SC	CKTH0023	Provide and install 6-strand connector panel SM SC. Complete with couplers
617	6-strand connector panel SM LC	CKTH0024	Provide and install 6-strand connector panel SM LC. Complete with couplers
618	12-strand connector panel SM SC	CKTH0025	Provide and install 12-strand connector panel SM SC. Complete with couplers
619	12-strand connector panel SM LC	CKTH0026	Provide and install 12-strand connector panel SM LC. Complete with couplers
620	Provide SC Compatible 50µm Multimode connector (material only)	CKTH0027	Provide SC Compatible 50µm Multimode connector (material only). Provide SC Compatible 50µm Multimode connector (material only). Provide SC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers CKBH0006 or CKBH0007 and CKBH0008.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
621	Provide SC Compatible 62.5µm Multimode connector (material only)	CKTH0028	Provide SC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers CKBH0006 or CKBH0007 and CKBH0008.
622	Provide SC Compatible Single Mode connector (material only)	CKTH0029	Provide SC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers CKBH0006 or CKBH0007 and CKBH0008.
623	Provide LC Compatible 50µm Multimode connector (material only)	CKTH0030	Provide LC Compatible 50µm Multimode connector (material only). Must be ordered with Product Identifiers CKBH0006 or CKBH0007 and CKBH0008.
624	Provide LC Compatible 62.5µm Multimode connector (material only)	CKTH0031	Provide LC Compatible 62.5µm Multimode connector (material only). Must be ordered with Product Identifiers CKBH0006 or CKBH0007 and CKBH0008.
625	Provide LC Compatible Single Mode connector (material only)	CKTH0032	Provide LC Compatible Single Mode connector (material only). Must be ordered with Product Identifiers CKBH0006 or CKBH0007 and CKBH0008.
626	Multimode 62.5/125 SC To SC 1 Meter Patch Cable	CKTH0033	Provide and install Multimode 62.5/125 SC To SC 1 Meter Patch Cable.
627	Multimode 62.5/125 SC To SC 3 Meter Patch Cable	CKTH0034	Provide and install Multimode 62.5/125 SC To SC 3 Meter Patch Cable.
628	Multimode 62.5/125 SC To SC 10 Meter Patch Cable	CKTH0035	Provide and Install Multimode 62.5/125 SC To SC 10 Meter Patch Cable.
629	Multimode 62.5/125 SC To LC 1 Meter Patch Cable	CKTH0036	Provide and install Multimode 62.5/125 SC To LC 1 Meter Patch Cable.
630	Multimode 62.5/125 SC To LC 3 Meter Patch Cable	CKTH0037	Provide and install Multimode 62.5/125 SC To LC 3 Meter Patch Cable.
631	Multimode 62.5/125 SC To LC 10 Meter Patch Cable	CKTH0038	Provide and install Multimode 62.5/125 SC To LC 10 Meter Patch Cable.
632	Multimode 62.5/125 LC To LC 1 Meter Patch Cable	CKTH0039	Provide and install Multimode 62.5/125 LC To LC 1 Meter Patch Cable.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
633	Multimode 62.5/125 LC To LC 3 Meter Patch Cable	CKTH0040	Provide and install Multimode 62.5/125 LC To LC 3 Meter Patch Cable.
634	Multimode 62.5/125 LC To LC 10 Meter Patch Cable	CKTH0041	Provide and install Multimode 62.5/125 LC To LC 10 Meter Patch Cable.
635	Multimode 50/125 SC To SC 1 Meter Patch Cable	CKTH0042	Provide and install Multimode 50/125 SC To SC 1 Meter Patch Cable.
636	Multimode 50/125 SC To SC 3 Meter Patch Cable	CKTH0043	Provide and install Multimode 50/125 SC To SC 3 Meter Patch Cable.
637	Multimode 50/125 SC To SC 10 Meter Patch Cable	CKTH0044	Provide and install Multimode 50/125 SC To SC 10 Meter Patch Cable.
638	Multimode 50/125 SC To LC 1 Meter Patch Cable	CKTH0045	Provide and install Multimode 50/125 SC To LC 1 Meter Patch Cable
639	Multimode 50/125 SC To LC 3 Meter Patch Cable	CKTH0046	Provide and install Multimode 50/125 SC To LC 3 Meter Patch Cable.
640	Multimode 50/125 SC To LC 10 Meter Patch Cable	CKTH0047	Provide and install Multimode 50/125 SC To LC 10 Meter Patch Cable.
641	Multimode 50/125 LC To LC 1 Meter Patch Cable	CKTH0048	Provide and install Multimode 50/125 LC To LC 1 Meter Patch Cable.
642	Multimode 50/125 LC To LC 3 Meter Patch Cable	CKTH0049	Provide and install Multimode 50/125 LC To LC 3 Meter Patch Cable.
643	Multimode 50/125 LC To LC 10 Meter Patch Cable	CKTH0050	Provide and install Multimode 50/125 LC To LC 10 Meter Patch Cable.
644	Single Mode 9/125 SC To SC 1 Meter Patch Cable	CKTH0051	Provide and install Single Mode 9/125 SC To SC 1 Meter Patch Cable.
645	Single Mode 9/125 SC To SC 3 Meter Patch Cable	CKTH0052	Provide and install Single Mode 9/125 SC To SC 3 Meter Patch Cable.
646	Single Mode 9/125 SC To SC 10 Meter Patch Cable	CKTH0053	Provide and install Single Mode 9/125 SC To SC 10 Meter Patch Cable.
647	Single Mode 9/125 SC To LC 1 Meter Patch Cable	CKTH0054	Provide and install Single Mode 9/125 SC To LC 1 Meter Patch Cable.
648	Single Mode 9/125 SC To LC 3 Meter Patch Cable	CKTH0055	Provide and install Single Mode 9/125 SC To LC 3 Meter Patch Cable.
649	Single Mode 9/125 SC To LC 10 Meter Patch Cable	CKTH0056	Provide and install Single Mode 9/125 SC To LC 10 Meter Patch Cable.
650	Single Mode 9/125 LC To LC 1 Meter Patch Cable	CKTH0057	Provide and install Single Mode 9/125 LC To LC 1 Meter Patch Cable.
651	Single Mode 9/125 LC To LC 3 Meter Patch Cable	CKTH0058	Provide and install Single Mode 9/125 LC To LC 3 Meter Patch Cable.
652	Single Mode 9/125 LC To LC 10 Meter Patch Cable	CKTH0059	Provide and install Single Mode 9/125 LC To LC 10 Meter Patch Cable.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
Sunday and Holiday Hours Extended Demarcation Wiring Services - Backbone and Circuit Extension Termination and/or Testing.			
653	Copper cable termination per pair (25 pair and larger)	CKBH0001	Labor and consumables to terminate and test media.
654	Copper cable splicing per pair (25 pair and larger)	CKBH0002	Labor and consumables to splice and test media.
655	Copper cable testing per pair (25 pair and larger)	CKBH0003	Labor to perform continuity test.
656	Tone, locate, test, tag and document Circuit	CKBH0004	Test and Tone on both sides of a single circuit, copper pair, between termination points.
657	Install Fiber termination connector	CKBH0006	Install Fiber termination connector - Labor only.
658	Splice Fiber per strand	CKBH0007	Splice Fiber per strand. Labor only - SM or MM.
659	Fiber testing per strand	CKBH0008	OTDR
660	Provide 4-pair CAT5e termination and testing	CKBH0009	Labor only. Includes BICSI standard testing (end to end)
661	Terminate and test 4-pair Cat 6	CKBH0010	Labor only. Includes BICSI standard testing (end to end)
662	Terminate 4-pair Cat 6	CKBH0011	Retermine one end only jack or patch panel
663	Test 4-pair Cat 6	CKBH0012	Test only Includes BICSI standard testing (end to end)
664	Terminate and test 4-pair Cat 6A	CKBH0013	Labor only. Includes BICSI standard testing (end to end)
665	Terminate 4-pair Cat 6A	CKBH0014	Retermine one end only jack or patch panel
666	Test 4-pair Cat 6A	CKBH0015	Test only Includes BICSI standard testing (end to end)
Sunday and Holiday Hours Extended Demarcation Wiring Services - Station Cabling, Cable Placement and Consumables Only - pull line in place			
667	Single 4-pair Cat 6 PVC cable for voice or data application	SCBH0001	Provide and Install single 4-pair Cat 6 PVC cable for voice or data application
668	Single 4-pair Cat 6 plenum cable for voice or data application	SCBH0002	Provide and Install single 4-pair Cat 6 plenum cable for voice or data application
669	Single 4-pair Cat 6 OSP cable for voice or data application	SCBH0003	Provide and Install single 4-pair Cat 6 OSP cable for voice or data application

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
670	Single 4-pair Cat 6A PVC cable for voice or data application	SCBH0004	Provide and Install single 4-pair Cat 6A PVC cable for voice or data application
671	Single 4-pair Cat 6A plenum cable for voice or data application	SCBH0005	Provide and Install single 4-pair Cat 6A plenum cable for voice or data application
672	Single 4-pair Cat 6A OSP cable for voice or data application	SCBH0006	Provide and Install single 4-pair Cat 6A OSP cable for voice or data application
Sunday and Holiday Hours Extended Demarcation Wiring Services - Additional Components (Material and Labor to install)			
673	One 24-port unloaded Cat 5E/6/6A Patch Panel	MLIH0001	Provide and install one 24-port unloaded Cat 6A Patch Panel
674	One 48-port unloaded Cat 5E/6/6A Patch Panel	MLIH0002	Provide and install one 48-port unloaded Cat 6A Patch Panel
675	New 24-port Cat 6 patch panel	MLIH0003	Provide and install new 24-port Cat 6 patch panel
676	New 48-port Cat 6 patch panel	MLIH0004	Provide and install new 48-port Cat 6 patch panel
677	New 24-port Cat 6A patch panel	MLIH0005	Provide and install new 24-port Cat 6A patch panel
678	New 48-port Cat 6A patch panel	MLIH0006	Provide and install new 48-port Cat 6A patch panel
679	New 12-port Cat 6 patch panel	MLIH0007	Provide and install new 12-port Cat 6 patch panel
680	Face plate plastic	MLIH0008	Provide and install face plate plastic
681	Modular furniture device plate	MLIH0009	Provide and install modular furniture device plate
682	4-port stainless steel faceplate	MLIH0010	Provide and install 4-port stainless steel faceplate
683	6-port stainless steel faceplate	MLIH0011	Provide and install 6-port stainless steel faceplate
684	Cat 6 jack insert	MLIH0012	Provide and install Cat 6 jack insert
685	Cat 6A jack insert	MLIH0013	Provide and install Cat 6A jack insert
686	3' Cat 5e patch cord	MLIH0014	Provide and install 3' Cat 5e patch cord
687	5' Cat 5e patch cord	MLIH0015	Provide and install 5' Cat 5e patch cord
688	7' Cat 5e patch cord	MLIH0016	Provide and install 7' Cat 5e patch cord

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
689	10' Cat 5e patch cord	MLIH0017	Provide and install 10' Cat 5e patch cord
690	3' Cat 6 patch cord	MLIH0018	Provide and install 3' Cat 6 patch cord
691	5' Cat 6 patch cord	MLIH0019	Provide and install 5' Cat 6 patch cord
692	7' Cat 6 patch cord	MLIH0020	Provide and install 7' Cat 6 patch cord
693	10' Cat 6 patch cord	MLIH0021	Provide and install 10' Cat 6 patch cord
694	15' Cat 6 patch cord	MLIH0022	Provide and install 15' Cat 6 patch cord
695	25' Cat 6 patch cord	MLIH0023	Provide and install 25' Cat 6 patch cord
696	Velcro Ties (roll 25 yards)	MLIH0024	Provide and install Velcro Ties (roll 25 yards)
697	Fiber splice closure	MLIH0025	Provide and install Fiber splice closure. OSP rated.
698	Fiber splice tray	MLIH0026	Provide and install Fiber splice tray.
699	Copper splice case 4.0x25	MLIH0027	Provide and install Copper splice case 4.0x25. OSP rated.
700	Copper splice case 6.5x28	MLIH0028	Provide and install Copper splice case 6.5x28. OSP rate.
701	Provide Copper splice module 25 pair (material only)	MLIH0029	Provide Copper splice module 25 pair (material only).
Sunday and Holiday Hours Extended Demarcation Wiring Services - Pathway			
702	Rod & rope conduit	PTHH0001	Pull string or rope provided, rope will be sized appropriately to conduit size.
703	Rod, rope and place up to 3 1" innerducts in same conduit	PTHH0002	Provide rod, rope and place up to 3 1" innerducts in the same conduit.
704	One stick (10') of 1" EMT & three (3) 2-hole straps	PTHH0003	Provide and install one stick (10') of 1" EMT & three (3) 2-hole straps.
705	One stick (10') of 1 1/4" EMT & three (3) 2-hole straps	PTHH0004	Provide and install one stick (10') of 1 1/4" EMT & three (3) 2-hole straps.
706	One stick (10') of 2" EMT & three (3) 2-hole straps	PTHH0005	Provide and install one stick (10') of 2" EMT & three (3) 2-hole straps.
707	One stick (10') of 1" Rigid & three (3) 2-hole straps	PTHH0006	Provide and install one stick (10') of 1" Rigid & three (3) 2-hole straps.
708	One stick (10') of 1 1/4" Rigid & three (3) 2-hole straps	PTHH0007	Provide and install one stick (10') of 1 1/4" Rigid & three (3) 2-hole straps.
709	One stick (10') of 2" Rigid & three (3) 2-hole straps	PTHH0008	Provide and install one stick (10') of 2" Rigid & three (3) 2-hole straps.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
710	One stick (10') of 3" EMT & three (3) 2-hole straps	PTHH0009	Provide and install one stick (10') of 3" EMT & three (3) 2-hole straps.
711	One stick (10') of 4" EMT & three (3) 2-hole straps	PTHH0010	Provide and install one stick (10') of 4" EMT & three (3) 2-hole straps.
712	One Stick (10') of 2" SCH 80 PVC	PTHH0011	Provide and install one stick (10') of 2" SCH 80 PVC & three (3) 2-hole straps.
713	One Stick (10') of 4" SCH 80 PVC	PTHH0012	Provide and install one stick (10') of 4" SCH 80 PVC & three (3) 2-hole straps.
714	One 1" EMT Stub up from device box to above ceiling including straps, connector and bushing	PTHH0013	Provide and install one 1" EMT Stub up from device box to above ceiling including straps, connector and bushing.
715	Surface mount box	PTHH0014	Provide and install Surface mount box.
716	1" 2-hole strap, EMT	PTHH0015	Provide and install 1" 2-hole strap, EMT.
717	1" bushing, EMT	PTHH0016	Provide and install 1" bushing, EMT.
718	1" compression connector, EMT	PTHH0017	Provide and install 1" compression connector, EMT.
719	1" compression coupler, EMT	PTHH0018	Provide and install 1" compression coupler, EMT.
720	1" Chase Nipple	PTHH0019	Provide and install 1" Chase Nipple
721	1" Unistrut clamp, EMT	PTHH0020	Provide and install 1" Unistrut clamp, EMT.
722	2" 2-hole strap, EMT	PTHH0021	Provide and install 2" 2-hole strap, EMT.
723	2" bushing, EMT	PTHH0022	Provide and install 2" bushing, EMT.
724	2" compression connector, EMT	PTHH0023	Provide and install 2" compression connector, EMT.
725	2" compression coupler, EMT	PTHH0024	Provide and install 2" compression coupler, EMT.
726	2" Chase Nipple	PTHH0025	Provide and install 2" Chase Nipple
727	2" Unistrut clamp, EMT	PTHH0026	Provide and install 2" Unistrut clamp, EMT.
728	3" 2-hole strap, EMT	PTHH0027	Provide and install 3" 2-hole strap, EMT.
729	3" bushing, EMT	PTHH0028	Provide and install 3" bushing, EMT.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
730	Provide and install 3" compression connector, EMT	PTHH0029	Provide and install 3" compression connector, EMT.
731	3" compression coupler, EMT	PTHH0030	Provide and install 3" compression coupler, EMT.
732	3" Unistrut clamp, EMT	PTHH0031	Provide and install 3" Unistrut clamp, EMT.
733	4" 2-hole strap, EMT	PTHH0032	Provide and install 4" 2-hole strap, EMT.
734	4" bushing, EMT	PTHH0033	Provide and install 4" bushing, EMT.
735	4" compression connector, EMT	PTHH0034	Provide and install 4" compression connector, EMT.
736	4" compression coupler, EMT	PTHH0035	Provide and install 4" compression coupler, EMT.
737	4" Unistrut clamp, EMT	PTHH0036	Provide and install 4" Unistrut clamp, EMT.
738	4" Chase Nipple	PTHH0037	Provide and install 4" Chase Nipple
739	1" 2-hole strap, Rigid	PTHH0038	Provide and install 1" 2-hole strap, Rigid.
740	1" bushing, Rigid	PTHH0039	Provide and install 1" bushing, Rigid.
741	1" compression connector, Rigid	PTHH0040	Provide and install 1" compression connector, Rigid.
742	1" compression coupler, Rigid	PTHH0041	Provide and install 1" compression coupler, Rigid.
743	1" Unistrut clamp, Rigid	PTHH0042	Provide and install 1" Unistrut clamp, Rigid.
744	2" 2-hole strap, Rigid	PTHH0043	Provide and install 2" 2-hole strap, Rigid.
745	2" bushing, Rigid	PTHH0044	Provide and install 2" bushing, Rigid.
746	2" compression connector, Rigid	PTHH0045	Provide and install 2" compression connector, Rigid.
747	2" compression coupler, Rigid	PTHH0046	Provide and install 2" compression coupler, Rigid.
748	2" Unistrut clamp, Rigid	PTHH0047	Provide and install 2" Unistrut clamp, Rigid.
749	2" threaded connector, PVC	PTHH0048	Provide and install 2" threaded connector, PVC
750	2" coupler, PVC	PTHH0049	Provide and install 2" coupler, PVC
751	4" threaded connector, PVC	PTHH0050	Provide and install 4" threaded connector, PVC

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
752	4" coupler, PVC	PTHH0051	Provide and install 4" coupler, PVC
753	2" J-Hook w/multipurpose clip	PTHH0052	Provide and install 2" J-Hook w/multipurpose clip.
754	1" J-Hook w/multipurpose clip	PTHH0053	Provide and install 1" J-Hook w/multipurpose clip
755	3" J-Hook w/multipurpose clip	PTHH0054	Provide and install 3" J-Hook w/multipurpose clip
756	Pencil Rod (for J-Hook mounting)	PTHH0055	Provide and install Pencil Rod (for J-Hook mounting)
757	Stringer wire (for j-hook mounting)	PTHH0056	Provide and install Stringer wire (for j-hook mounting)
758	Bell box (raco 5387-0)	PTHH0057	Provide and install Bell box (raco 5387-0).
759	8"x8"x6" pull box NEMA 1	PTHH0058	Provide and install 8"x8"x6" pull box NEMA 1.
760	12"x12"x8" NEMA 1 junction box NEMA 1	PTHH0059	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 1.
761	12"x12"x8" NEMA 1 junction box NEMA 3	PTHH0060	Provide and install 12"x12"x8" NEMA 1 junction box NEMA 3.
762	18"x18"x8" NEMA 3 junction box	PTHH0061	Provide and install 18"x18"x8" NEMA 3 junction box
763	Install customer provided WAP (Wireless Access Point); (does not include configuration)	PTHH0063	Install customer provided WAP (Wireless Access Point); (does not include configuration).
764	WAP (Wireless Access Point) Enclosure	PTHH0064	Provide and install WAP (Wireless Access Point) Enclosure
765	Install customer provided Camera (does not include configuration)	PTHH0065	Install customer provided Camera (does not include configuration).
766	Install customer provided paging speaker Drop Tile Ceiling	PTHH0066	Install customer provided paging speaker Drop Tile Ceiling. Includes installation hardware; speaker is not included
767	Unistrut slotted 7/8"	PTHH0067	Provide and install Unistrut slotted 7/8". Includes installation hardware; speaker is not included.
768	1" Unistrut straps	PTHH0068	Provide and install 1" Unistrut straps.
769	2" Unistrut straps	PTHH0069	Provide and install 2" Unistrut straps.
770	1" EMT sleeve (core or penetration not included)	PTHH0070	Provide and install 1" EMT sleeve (core or penetration not included).
771	2" EMT sleeve (core or penetration not included)	PTHH0071	Provide and install 2" EMT sleeve (core or penetration not included).

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
772	3" EMT sleeve (core or penetration not included)	PTHH0072	Provide and install 3" EMT sleeve (core or penetration not included).
773	4" EMT sleeve (core or penetration not included)	PTHH0073	Provide and install 4" EMT sleeve (core or penetration not included).
774	8"x8"x6" pull box NEMA R3	PTHH0074	Provide and install 8"x8"x6" pull box NEMA R3.
Sunday and Holiday Hours Extended Demarcation Wiring Services - Raceway			
775	Raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16")	RCCH0001	Provide and install raceway 5-foot base ivory and cover 2300BAC plastic (2 1/4" x 11/16").
776	Raceway Cover clip 2306	RCCH0002	Provide and install raceway Cover clip 2306.
777	Raceway Internal elbow 2317DF0	RCCH0003	Provide and install raceway Internal elbow 2317DF0.
778	Raceway External bend 2318DF0	RCCH0004	Provide and install raceway External bend 2318DF0.
779	Raceway Flat elbow 2311DF0	RCCH0005	Provide and install raceway Flat elbow 2311DF0.
780	Raceway Wire clip ivory 2300WC	RCCH0006	Provide and install raceway Wire clip ivory 2300WC.
781	Raceway Blank end fitting 2310B	RCCH0007	Provide and install raceway Blank end fitting 2310B.
782	Raceway Entrance fitting 2310A	RCCH0008	Provide and install raceway Entrance fitting 2310A.
783	Raceway Tee 2315	RCCH0009	Provide and install raceway Tee 2315.
Sunday and Holiday Hours Extended Demarcation Wiring Services - Other Tasks			
784	Core Drilling, 1" hole	DRLH0001	Core Drilling, 1" hole.
785	Core Drilling, 2" hole	DRLH0002	Core Drilling, 2" hole.
786	Core Drilling, 3" hole	DRLH0003	Core Drilling, 3" hole.
787	Core Drilling, 4" hole	DRLH0004	Core Drilling, 4" hole.
788	Wall penetration - drywall	WPNH0000	Wall penetration – drywall.
789	Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees)	LFTH0000	For contractor use in support of SRI services. Scissor Lift Rental (20') (Includes daily rate, pickup and delivery fees)
790	CAD Drawing	CDDH0000	CAD Draftsman Services
791	Fire Seal Penetration, 1" hole	FRPH0001	Fire Seal Penetration, 1" hole.

Table 15.3.2.b – Unsolicited Extended Demarcation Wiring Services			
	Feature Name	Bidder's CALNET Product Identifier	Bidder's Description
792	Fire Seal Penetration, 2" hole	FRPH0002	Fire Seal Penetration, 2" hole.
793	Fire Seal Penetration, 3" hole	FRPH0003	Fire Seal Penetration, 3" hole.
794	Fire Seal Penetration, 4" hole	FRPH0004	Fire Seal Penetration, 4" hole.
795	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation of 2 - 8' x 5/8" ground rods and # 6 ground wire)	IQPH0000	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation of 2 - 8' x 5/8" ground rods and # 6 ground wire).
796	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire.	IQLH0000	Installation of equipment ground (Includes all material, terminations and labor for each applicable equipment and the installation # 6 ground wire.
797	12" Grounding Buss Bar with TMGB Pattern	GBBH0012	Provide and install 12" Grounding Buss Bar with TMGB Pattern
798	20" Grounding Buss Bar with TMGB Pattern	GBBH0020	Provide and install 20" Grounding Buss Bar with TMGB Pattern
799	1/4" Compression Grounding Lugs	CMGH0000	Provide and install 1/4" Compression Grounding Lugs
800	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation	RLCH0000	Relocate existing telephone handset (same HC/TC on existing cabling) - includes cross-connect, testing, and documentation.
801	Install new cross-connect	ICCH0000	Install new cross-connect.

15.3.3 SERVICES RELATED HOURLY SUPPORT

The Contractor shall provide labor for the diagnosis and/or repair of services listed in this Contract and all costs for repair are the responsibility of the service provider unless it is specifically determined that the cause of service failure is outside the scope of the Contractor's responsibilities. Work performed under this Section 15.3.3 is authorized only for situations where the Contractor has dispatched personnel to diagnose a service problem that is discovered to be caused by factors outside the responsibility of the Contractor or no trouble is found.

In Category 15 Cost Worksheet 15.3.3, the Contractor shall provide a fixed hourly rate schedule for the labor classifications required to diagnose and/or repair the contracted services. The rates identified shall only be used for the diagnosis and/or repair of contracted services and no materials shall be included in the rates. The total amount of labor hours permitted to be performed is ten (10) hours per dispatch/occurrence.

*Bidder understands the Requirement and shall meet or exceed it? Yes **X** No _____*

The Contractor shall offer the Services Related Hourly Support detailed in Table 15.3.3.

Table 15.3.3 – Services Related Hourly Support						
	Feature Name	Feature Description	Bidder's CALNET Product Identifier	Bidder's Description	Bidder Meets or Exceeds? Y N	
1	Field Service Repair Technician Regular Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET Legacy 4 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	FLDR0000	Verizon will provide a Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET Legacy 4 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y	
2	Field Service Repair Technician Overtime Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET Legacy 4 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	FLDO0000	Verizon will provide a Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET Legacy 4 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y	
3	Field Service Repair Technician Sunday and Holiday Hours	Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET Legacy 4 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	FLDS0000	Verizon will provide a Field technician properly trained to an expert level for the service being dispatched to diagnose and/or repair a CALNET Legacy 4 service problem that turns out to be caused by factors outside the responsibility of the Contractor.	Y	

15.4 SERVICE LEVEL AGREEMENTS (SLA)

The Contractor shall provide Service Level Agreements (SLAs) as defined below. The intent of this Section 15.4 is to provide the Customers, the CALNET CMO and the Contractor with requirements that define and assist in the management of the SLAs. This Section 15.4 includes the SLA formats, general requirements, stop clock conditions and the Technical SLAs for the services identified in this Category 15 solicitation.

15.4.1 SERVICE LEVEL AGREEMENT FORMAT

The Contractor shall adhere to the following format and include the content as described below for each Technical SLA added by the Contractor throughout the Contract Term:

1. SLA Name – Each SLA Name must be unique;
2. Definition – Describes what performance metric will be measured;
3. Measurements Process - Provides instructions how the Contractor will continuously monitor and measure SLA performance to ensure compliance. The Contractor shall provide details describing how and what will be measured. Details shall include source of data and define the points of measurement within the system, application, or network;
4. Service(s) – All applicable services will be listed in each SLA;
5. Objective(s) – Defines the SLA performance goal/parameters; and,
6. Rights and Remedies:
 - a. Per Occurrence: Rights and remedies are paid on a per event basis during the bill cycle; and,
 - b. Monthly Aggregated Measurements: Rights and remedies are paid once during the bill cycle based on an aggregate of events over a defined period of time.

The Contractor shall proactively apply an invoice credit or refund when the SLA objective is not met. CALNET SLA Rights and Remedies do not require the Customer to submit a request for credit or refund.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.4.2 SOW TECHNICAL REQUIREMENTS VERSUS SLA OBJECTIVES

Section 15.2, *Dedicated Transport Requirements*, and Section 15.3, *Other Services*, define the SOW Technical Requirements for each service. These requirements are the minimum parameters each Bidder must meet in order to qualify for Contract Award. Upon Contract Award the committed SOW Technical Requirements will be maintained throughout the remainder of the Contract.

Committed SLA objectives are minimum parameters which the Contractor shall be held accountable for all rights and remedies throughout Contract Term.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.4.3 OUTAGE REPORTING

There are two (2) methods in which CALNET Legacy 4 service failures or quality of service issues may be reported and Contractor trouble tickets opened: Customer reported or Contractor reported.

The first method of outage reporting results from a Customer reporting service trouble to the Contractor's Customer Service Center via phone call or opening of a trouble ticket using the on-line Trouble Ticket Reporting Tool (SOW Business Requirements, Section L.10.4).

The second method of outage reporting occurs when the Contractor opens a trouble ticket as a result of network/system alarm or other method of service failure identification. In each instance the Contractor shall open a trouble ticket using the Trouble Ticket Reporting Tool (SOW Business Requirements Section L.104) and monitor and report to the Customer until service is restored.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.4.4 BIDDER'S RESPONSE TO SERVICE LEVEL AGREEMENTS

Many of the Service Level Agreements described below include multiple objective levels – Basic, Standard and Premier. The Bidders shall indicate one (1) specific objective level they are committing to for each service in space provided in the "Objective" section of each SLA description.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.4.5 CONTRACTOR'S SLA MANAGEMENT PLAN

Within 90 calendar days of Contract Award, the Contractor shall provide the CALNET CMO with a detailed SLA Management Plan that describes how the Contractor will monitor and manage the SLAs defined in this IFB C4A1LEG18. The SLA Management plan shall provide processes and procedures to be implemented by the Contractor. The SLA Management Plan shall define the following:

1. The Contractor SLA Manager and supporting staff responsibilities;
2. The Contractor's process for measuring objectives for each SLA. The process shall explain how the Contractor will continuously monitor and measure SLA performance to ensure compliance. The Contractor shall provide details describing how and what will be measured. Details should include source of data and define the points of measurement within the system, application, or network. Process may differ per service type;
3. Creation and delivery of SLA Reports (SOW Business Requirements Section L.10.5). The Contractor shall include a sample report in accordance with Service Level Agreement Reports (SOW Business Requirements Section L.10.5) for the following: SLA Service Performance Report (SOW Business Requirements Section L.10.5.1), SLA Provisioning Report (SOW Business Requirements Section L.10.5.2), SLA Catastrophic Outage Reports (SOW Business Requirements

Section L.10.5.3), and Trouble Ticket and Provisioning/SLA Credit Report (SOW Business Requirements Section L.10.5.4). The Contractor shall commit to a monthly due date that the reports shall be provided to the CALNET CMO via the Private Oversight Website (SOW Business Requirements Section L.10.2);

4. SLA invoicing credit and refund process;
5. The Contractor's SLA problem resolution process for the Customer SLA management and SLA reporting issues. The Contractor shall provide a separate process for the Customers and the CALNET CMO; and,
6. The Contractor's SLA Manager to manage all SLA compliance and reporting. The Contractor shall include SLA Manager contact information for SLA inquiries and issue resolution for the Customer and the CALNET CMO.

Bidder understands the Requirement and shall meet or exceed it? Yes X No

15.4.6 TECHNICAL SLA GENERAL REQUIREMENTS

The Contractor shall adhere to the following general requirements which apply to all CALNET Legacy 4 Technical SLAs (Section 15.4.8, *Technical Service Level Agreements*):

1. With the exception of the Provisioning SLA (Section 15.4.8.7), the total SLA rights and remedies for any given month shall not exceed the sum of 100 percent (100%) of the Total Monthly Recurring Charges (TMRC). Services with usage charges shall apply the Average Daily Usage Charge (ADUC) in addition to any applicable TMRC rights and remedies;
2. If a circuit or service fails to meet one (1) or more of the performance objectives, only the SLA with the largest monthly Rights and Remedies will be credited to the Customer, per event;
3. The Contractor shall apply CALNET Legacy 4 SLAs and remedies for services provided by Affiliates and/or Subcontractors under this Contract;
4. The Definition, Measurement Process, Objectives, and Rights and Remedies shall apply to all services identified in each SLA. If a Category is listed in the SLA, then all services under that Category are covered under the SLA. Exceptions must be otherwise stated in the SLA;
5. TMRC rights and remedies shall include the service, option(s), and feature(s) charges;
6. The Contractor shall proactively and continuously monitor and measure all SLA objectives;
7. The Contractor shall proactively credit all rights and remedies to the Customer within 60 calendar days of the trouble resolution date on the trouble ticket or within 60 calendar days of the Due Date on the Service Request form for the Provisioning SLA (Section 15.4.8.7);
8. To the extent that the Contractor offers additional SLAs, or SLAs with more advantageous rights and/or remedies for same or similar services offered through tariffs, online service guides, or other similarly situated government contracts (Federal, State, County, City), the State will be entitled to the same rights and/or

- remedies therein. The Contractor shall present the SLAs to the CALNET CMO for possible inclusion via amendments;
9. The Contractor shall apply CALNET Legacy 4 SLAs and remedies to services provided in geographic areas which the Contractor is required to provide service;
 10. The election by the CALNET CMO of any SLA remedy covered by this Contract shall not exclude or limit the CALNET CMO's or any of the Customer's rights and remedies otherwise available within the Contract or at law or equity;
 11. The Contractor shall apply rights and remedies when a service fails to meet the SLA objective even when backup or protected services provide the Customer with continuation of services;
 12. The Contractor shall act as the single point of contact in coordinating all entities to meet the State's needs for provisioning, maintenance, restoration and resolution of service issues or that of their Subcontractors, Affiliates or resellers under this Contract;
 13. The Customer Escalation Process (SOW Business Requirements Section L.3.4.2) and/or the CALNET CMO Escalation Process (SOW Business Requirements Section L.3.4.1) shall be considered an additional right and remedy if the Contractor fails to resolve service issues within the SLA objective(s);
 14. Trouble reporting and restoration shall be provided 24x7x365 for CALNET Legacy 4 services;
 15. SLAs apply 24x7x365 unless SLA specifies an exception;
 16. The Contractor's invoices shall clearly cross reference the SLA credit to the service Circuit ID in accordance with SOW Business Requirements Section L.6.1, #13, *Billing and Invoicing Requirements*;
 17. The Contractor shall provide a CALNET Legacy 4 SLA Manager responsible for CALNET Legacy 4 SLA compliance. The SLA Manager shall attend regular meetings and be available upon request to address the CALNET CMO SLA oversight, report issues, and problem resolution concerns. The CALNET Legacy 4 SLA Manager shall also coordinate SLA support for the Customer SLA inquiries and issue resolution;
 18. The Contractor shall provide the Customer and the CALNET CMO support for SLA inquiries and issue resolution; and,
 19. Any SLAs and remedies negotiated between the Contractor and third party service provider in territories not open to completion shall be passed through to the CALNET Legacy 4 Customer.

Bidder understands the Requirement and shall meet or exceed it? Yes X No

15.4.7 STOP CLOCK CONDITIONS

Only the following conditions shall be allowed to stop the duration of the Service Level Agreements. The Contractor shall document durations using the Stop Clock Condition (SCC) listed in Table 15.4.7 which must include start and stop time stamps in the Contractor's Trouble Ticket Reporting Tool (SOW Business Requirements Section L.10.4) or Customer provisioning Service Request for each application of an SCC.

The Contractor shall not consider “cleared while testing” or “no trouble found”: as an SCC.

Note: The Glossary (SOW Appendix A) defines term “End-User” as the “individual within an Entity that is receiving services and/or features provided under the Contract.”

Table 15.4.7 – Stop Clock Conditions (SCC)

#	Stop Clock Condition (SCC)	SCC Definition
1	END-USER REQUEST	Periods when a restoration or testing effort is delayed at the specific request of the End-User. The SCC shall exist during the period the Contractor was delayed, provided that the End-User's request is documented and time stamped in the Contractor's trouble ticket or Service Request system and shows efforts are made to contact the End-User during the applicable Stop Clock period.
2	OBSERVATION	Time after a service has been restored but End-User requests ticket is kept open for observation. If the service is later determined by the End-User to not have been restored, the Stop Clock shall continue until the time the End-User notifies the Contractor that the service has not been restored.
3	END-USER NOT AVAILABLE	Time after a service has been restored but End-User is not available to verify that the service is working. If the service is later determined by the End-User to not have been restored, the Stop Clock shall apply only for the time period between the Contractor's reasonable attempt to notify the End-User that the Contractor believes the service has been restored and the time the End-User notifies the Contractor that the service has not been restored.
4	WIRING	Restoration cannot be achieved because the problem has been isolated to wiring that is not maintained by the Contractor or any of its Subcontractors or Affiliates. If it is later determined the wiring is not the cause of failure, the SCC shall not apply.
5	POWER	Trouble caused by a power problem outside of the responsibility of the Contractor.
6	CUSTOMER PROVISIONING DELAY	Delays to Provisioning caused by lack of Customer's building entrance Facilities, conduit structures that are the Customer's responsibilities or Extended demarcation wiring. If the Service Providing Contractor has been contracted by the Customer for extended demarcation wiring, this SCC shall not apply to missed dates/times. The Customer Provisioning Delay SCC is restricted to Provisioning SLAs only.
7	ACCESS	Limited access or contact with End-User provided the Contractor documents in the trouble ticket several efforts to contact End-User for the following: a. Access necessary to correct the problem is not available because access has not been arranged by site contact or End-User representative; b. Site contact refuses access to technician who displays proper identification;

#	Stop Clock Condition (SCC)	SCC Definition
		c. The Customer provides incorrect site contact information which prevents access, provided that the Contractor takes reasonable steps to notify End-User of the improper contact information and takes reasonable steps to obtain the correct information; or, d. Site has limited hours of business that directly impacts the Contractor's ability to resolve the problem.
8	STAFF	Any problem or delay to the extent caused by End-User's staff that prevents or delays the Contractor's resolution of the problem. In such event, the Contractor shall make a timely request to End-User staff to correct the problem or delay and document in trouble ticket.
9	APPLICATION	End-User software applications that interfere with repair of the trouble.
10	CPE	Repair/replacement of the Customer Premise Equipment (CPE) not provided by the Contractor if the problem has been isolated to the CPE. If determined later that the CPE was not the cause of the service outage, the CPE SCC will not apply.
11	NO RESPONSE	Failure of the trouble ticket originator or responsible End-User to return a call from the Contractor's technician for on-line close-out of trouble tickets after the service has been restored as long as the Contractor can provide documentation in the trouble ticket substantiating the communication from the Contractor's technician.
12	MAINTENANCE	An outage directly related to any properly performed scheduled maintenance or upgrade scheduled for CALNET Legacy 4 service. Any such stop clock condition shall not extend beyond the scheduled period of the maintenance or upgrade. SLAs shall apply for any maintenance caused outage beyond the scheduled maintenance period. Outages occurring during a scheduled maintenance or upgrade period and not caused by the scheduled maintenance shall not be subject to the Maintenance SCC.
13	THIRD PARTY	Any problem or delay caused by a third party not under the control of the Contractor, not preventable by the Contractor, including, at a minimum, cable cuts not caused by the Contractor. The Contractor's Affiliates and/or Subcontractors shall be deemed to be under the control of the Contractor with respect to the equipment, services, or Facilities to be provided under this Contract.
14	FORCE MAJEURE	Force Majeure events, as defined in the PMAC General Provisions - Telecommunications, Section 28, <i>Force Majeure</i> .

Bidder understands the Requirement and shall meet or exceed it? Yes X No

15.4.8 TECHNICAL SERVICE LEVEL AGREEMENTS

The Contractor shall provide and manage the following Technical SLAs.

15.4.8.1 Availability (M-S)

SLA Name: Availability				
Definition: The percentage of time a CALNET Legacy 4 service is fully functional and available for use each calendar month.				
Measurement Process: The monthly Availability Percentage shall be based on the accumulative total of all Unavailable Time derived from all trouble tickets closed, for the individual affected service (per Circuit ID or Service ID), per calendar month. The monthly Availability Percentage equals the Scheduled Uptime per month less Unavailable Time per month divided by Scheduled Uptime per month multiplied by 100. Scheduled Uptime is based on 24 x number of days in the month. All Unavailable Time applied to other SLAs, which results in a remedy, will be excluded from the monthly accumulated total.				
Service(s):				
Carrier DS1 and DS3 (15.2.3 and 15.2.4)			ISDN Primary Rate Interface (PRI) (15.2.5)	
Objective(s):				
The objective shall be based on the access type:				
	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
DS1	≥ 99.2%	≥ 99.5%	≥ 99.8%	P
DS3	≥ 99.7%	≥ 99.8%	≥ 99.9%	P
ISDN PRI	≥ 99.2%	≥ 99.5%	≥ 99.8%	P
Rights and Remedies	Per Occurrence: End-User Escalation Process CALNET CMO Escalation Process			
	Monthly Aggregated Measurements: First month the service fails to meet the committed SLA objective shall result in a fifteen percent (15%) rebate of the TMRC and two (2) Business Days of the ADUC, when usage applies. The second consecutive month the service fails to meet the committed SLA objective shall result in a thirty percent (30%) rebate of TMRC and two (2) Business Days of the ADUC, when usage applies. Each additional consecutive month the service fails to meet the committed SLA objective shall result in a fifty (50%) percent rebate of the TMRC and two (2) Business Days of the ADUC, when usage applies.			

Bidder understands the Requirement and shall meet or exceed it? Yes **X** No _____

15.4.8.2 Catastrophic Outage 1 (CAT 1) (M-S)

SLA Name: Catastrophic Outage 1 (CAT 1)				
Definition: The total loss of service at a single address based on a common cause resulting in the failure of ten (10) or more data circuits.				
Measurement Process: The Outage Duration begins when a network alarm is received by the Contractor from an outage-causing event or the opening of a trouble ticket by a Customer, or the Contractor, whichever occurs first. The Contractor shall open a trouble ticket for each service (Circuit ID or Service ID) affected by the common cause. Each End-User service is deemed out of service from the first notification until the Contractor determines the End-User service (Circuit ID or Service ID) is restored minus SCC. Any service reported by a Customer as not having been restored shall have the outage time adjusted to the actual restoration time.				
Service(s):				
Carrier DS1, DS3 (15.2.3 and 15.2.4)			ISDN Primary Rate Interface (PRI) (15.2.5)	
Objective(s):				
The objective restoral time shall be:				
	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
DS1	≤ 3 hours	≤ 2 hours	≤ 1 hour	P
DS3	≤ 3 hours	≤ 2 hours	≤ 1 hour	P
ISDN PRI	≤ 3 hours	≤ 2 hours	≤ 1 hour	P
Rights and Remedies	Per Occurrence: 100 percent (100%) of the TMRC for each End-User service not meeting the committed objective for each CAT 1 fault			
	Monthly Aggregated Measurements: N/A			

Bidder understands the Requirement and shall meet or exceed it? Yes **X** No

15.4.8.3 Catastrophic Outage 2 (CAT 2) (M-S)

SLA Name: Catastrophic Outage 2 (CAT 2)				
Definition: Service affecting failure of any part of the equipment in a central office (or equivalent facility), other than access, that results in a CALNET Legacy 4 service failure.				
Measurement Process: The Outage Duration begins when a network alarm is received by the Contractor from the outage-causing event or the opening of a trouble ticket by the Customer or the Contractor, whichever occurs first. Upon notification from the Customer or network alarm, the Contractor shall compile a list for each End-User service affected by the common cause for tracking and reporting of the SLA rights and remedies. Outage Duration shall be measured on a per-End-User service (Circuit ID or Service ID) basis from information recorded from the network equipment/system or a Customer reported trouble ticket. Each End-User service (Circuit ID or Service ID) is deemed out of service from the first notification until the Contractor determines the End-User service is restored. Any End-User service reported by the End-User/Customer as not having been restored shall have the outage time adjusted to the actual restoration time.				
Service(s):				
Carrier DS1 DS3 (15.2.3 and 15.2.4)			ISDN Primary Rate Interface (15.2.5)	
Objective(s):				
The objective restoral time shall be:				
	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B, S or P)
DS1:	≤ 1 hour	≤ 30 minutes	≤ 15 minutes	P
DS3:	≤ 1 hour	≤ 30 minutes	≤ 15 minutes	P
ISDN PRI:	≤ 1 hour	≤ 30 minutes	≤ 15 minutes	P
Rights and Remedies	Per Occurrence: 100 percent (100%) of the TMRC for each End-User service not meeting the committed objective for each CAT 2 fault.			
	Monthly Aggregated Measurements: N/A			

Bidder understands the Requirement and shall meet or exceed it? Yes **X** No _____

15.4.8.4 Catastrophic Outage 3 (CAT 3) (M-S)

SLA Name: Catastrophic Outage 3 (CAT 3)				
Definition: The total loss of one (1) or more CALNET Legacy 4 services on a system wide basis.				
Measurement Process: The Outage Duration begins when a network alarm is received by the Contractor from an outage-causing event or the opening of a trouble ticket by the Customer or the Contractor, whichever occurs first. Upon notification from the Customer or network alarm, the Contractor shall open a trouble ticket and compile a list for each End-User service (Circuit ID or Service ID) affected by the common cause for tracking and reporting of the SLA rights and remedies. Outage Duration shall be measured on a per-End-User service (Circuit ID or Service ID) basis from information recorded from the network equipment/system or trouble ticket. Each End-User service (Circuit ID or Service ID) is deemed out of service from the first notification until the Contractor determines the End-User service is restored. Any End-User service reported by the End-User/Customer as not having been restored shall have the outage time adjusted to the actual restoration time.				
Service(s):				
Carrier DS1, DS3 (15.2.3 and 15.2.4)			ISDN Primary Rate Interface (15.2.5)	
Objective(s): The objective restoral time shall be:				
	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or P)
DS1:	≤ 30 minutes	N/A	≤ 15 minutes	P
DS3:	≤ 30 minutes	N/A	≤ 15 minutes	P
ISDN PRI:	≤ 30 minutes	N/A	≤ 15 minutes	P
Rights and Remedies	Per Occurrence: 100 percent (100%) of the TMRC for each End-User service not meeting the committed objective for each CAT 3 fault.			
	Monthly Aggregated Measurements: N/A			

Bidder understands the Requirement and shall meet or exceed it? Yes **X** No

15.4.8.5 Excessive Outage (M-S)

SLA Name: Excessive Outage				
Definition: Any failure that prevents full functionality of the service that remains unresolved for more than the committed objective level.				
Measurement Process: This SLA is based on trouble ticket Unavailable Time. The circuit or service is not fully functional during the time the trouble ticket is reported as opened until restoration of the service, minus SCC. If the Customer reports a partial or complete service that is not fully functional and remains unresolved after the closure of the trouble ticket by the Contractor, the Unavailable Time shall be adjusted to the actual restoration time.				
Service(s):				
Carrier DS1 and DS3 (15.2.3 and 15.2.4)			ISDN Primary Rate Interface (15.2.5)	
Objective (s): The Unavailable Time objective shall not exceed:				
	Basic (B)	Standard (S)	Premie r (P)	Bidder's Objective Commitme nt (B, S or P)
DS1:	16 hours	12 hours	8 hours	P
DS3:	16 hours	12 hours	8 hours	P
ISDN PRI:	16 hours	12 hours	8 hours	P
Rights and Remedies	Per Occurrence: 100 percent (100%) of the TMRC for each service (Circuit ID or Service ID) out of service for a period greater than the committed objective level. Upon request from the Customer or the CALNET CMO, the Contractor shall provide a briefing on the excessive outage restoration.			
	Monthly Aggregated Measurements: N/A			

Bidder understands the Requirement and shall meet or exceed it? Yes **X** No

15.4.8.6 Notification

SLA Name: Notification	
Definition: The Contractor notification to the CALNET CMO and designated stakeholders in the event of a CAT 2 or CAT 3 failure, the Contractor, Subcontractor or Affiliate network event, terrorist activity, threat of natural disaster, or actual natural disaster which results in a significant loss of telecommunication services to CALNET End-Users or has the potential to impact services in a general or statewide area. The State understands initial information regarding the nature of the outage may be limited.	
Measurement Process: The Contractor shall adhere to the Network Outage Response requirements (SOW Business Requirements Section L.3.3,) and notify the CALNET CMO and designated stakeholders for all CAT 2 and CAT 3 Outages or for network outages resulting in a significant loss of service. Notification objectives will be based on the start time of the outage failure determined by the opening of a trouble ticket or network alarm, whichever occurs first. For events based on information such as terrorist activity or natural disaster, the Contractor shall notify the CALNET CMO and designated stakeholder when information is available for dissemination to the Customers.	
Service(s): All services	
Objective (s): Within 60 minutes of the above mentioned failures' start time, the Contractor shall notify the CALNET CMO and designated stakeholders using a method defined in SOW Business Requirements Section L.3.3, <i>Network Outage Response</i> . At 60 minute intervals, updates shall be given on the above mentioned failures via the method defined in SOW Business Requirements Section L.3.3, <i>Network Outage Response</i> . This objective is the same for Basic, Standard and Premier commitments.	
Rights and Remedies	Per Occurrence: Senior Management Escalation
	Monthly Aggregated Measurements: N/A

Bidder understands the Requirement and shall meet or exceed it? Yes X No

15.4.8.7 Provisioning (M-S)

SLA Name: Provisioning		
Definition: Provisioning shall include new services, moves, adds and changes completed by the Contractor on or before the due dates. The Provisioning SLA shall be based on committed installation intervals established in this SLA or due dates negotiated between the Customer and the Contractor documented on the Contractor's order confirmation notification or Contracted Service Project Work SOW in accordance with SOW Business Requirements Section L.2.5.4 #6, <i>Provisioning and Implementation</i>. The Contractor shall meet the committed interval dates or due date negotiated with the Customer. If the Customer agrees to a negotiated due date, the negotiated due date supersedes the committed interval. At the Customer's discretion, if the scope of the Service Request(s) meets the Coordinated or Managed Project criteria, negotiated due dates will be established and documented in the Project Schedule per SOW Business Requirements Section L.8, <i>Contracted Service Project Work</i>. Provisioning SLAs have two (2) objectives: Objective 1: Individual service installation; and, Objective 2: Successful Install Monthly Percentage by service type.		
Measurement Process: Objective 1: <u>Individual Service Installations:</u> Install intervals are based on the committed installation intervals established in this SLA or due dates negotiated between the Customer and the Contractor. This objective requires the Contractor to meet the due date for each individual service installation. This includes individual circuit/service/seat level installations for Coordinated and Managed Projects. Objective 2: <u>Successful Install Monthly Percentage per Service Type:</u> The Contractor shall sum all individual installations per service, as listed below, meeting the objective in the measurement period (per month) and divide by the sum of all individual service installations due per service in the measurement period and multiply by 100 to equal the percentage of service installations completed on time. The Contractor must meet or exceed the objective below in order to avoid the rights and remedies.		
Service (Features must be installed in conjunction with the service except when listed below)	Committed Interval Days	Coordinated/Managed Project
Carrier DS1 (15.2.3)	30	Coordinated/Managed Project
Carrier DS3 (15.2.4)	45	Coordinated/Managed Project
ISDN Primary Rate Interface (15.2.5)	30	Coordinated/Managed Project

Objective (s):

1. Objective 1: Individual Service Request: Service installed on or before the committed interval or negotiated due date.
2. Objective 2: Successful Install Monthly Percentage per service:

	Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (S or P)
DS1	N/A	≥ 90%	≥ 95%	P
DS3	N/A	≥ 90%	≥ 95%	P
ISDN PRI	N/A	≥ 90%	≥ 95%	P

Rights and Remedies	Per Occurrence: Objective 1: Individual service installations: fifty percent (50%) of installation fee credited to the Customer for any missed committed objective.
	Monthly Aggregated Measurements: Objective 2: 100 percent (100%) of the installation fee credited to the Customer for all service installations (per service type) that did not complete within the committed objective during the month if the Successful Install Monthly Percentage is below the committed objective.

Bidder understands the Requirement and shall meet or exceed it? Yes X No

SLA Name: Time to Repair (TTR)					
Definition: Any failure that prevents full functionality of the service that remains unresolved for more than the committed objective level.					
Measurement Process: This SLA is based on trouble ticket Unavailable Time per service (Circuit ID or Service ID). The circuit or service is not fully functional during the time the trouble ticket is reported as opened until restoration of the service, minus SCC. If the Customer reports a service that is not fully functional and remains unresolved after the closure of the trouble ticket by the Contractor, the Unavailable Time shall be adjusted to the actual restoration time. This SLA is applied per occurrence.					
Service(s):					
Carrier DS1 (15.2.3) and DS3 (15.2.4)				ISDN Primary Rate Interface (15.2.5)	
Objective(s): The Unavailable Time objective shall not exceed:					
		Basic (B)	Standard (S)	Premier (P)	Bidder's Objective Commitment (B or S)
DS1:		6 hours	4 hours	N/A	S
DS3:		6 hours	4 hours	N/A	S
ISDN PRI:		6 hours	4 hours	N/A	S
Rights and Remedies	Per Occurrence: Twenty-five percent (25%) of the TMRC per occurrence for each service (Circuit ID or Service ID) out of service for a period greater than the committed objective level.				
	Monthly Aggregated Measurements: N/A				

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15.4.9 UNSOLICITED SERVICE ENHANCEMENT SLA(S)

All unsolicited service enhancements shall be considered a feature of the service, and therefore shall be included as such under the SLAs as defined in Section 15.4.8, *Technical Service Level Agreements*.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.4.10 PROPOSED UNSOLICITED OFFERINGS

The Contractor shall provide SLAs as defined in Section 15.4, *Service Level Agreements*, for each unsolicited offering determined by the CALNET CMO not to be a feature of a service or a component of an unbundled service identified in the SOW Technical Requirements. SLA tables shall be amended after Contract Award to include all new unsolicited services.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.4.11 CONTRACT AMENDMENT SERVICE ENHANCEMENT SLAS

All Contract amendment service enhancements shall be considered a feature of the service, therefore included as such under the SLAs as defined in this Section 15.4.8.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____

15.4.12 ACCEPTANCE OF SLA LANGUAGE FOR UNSOLICITED SERVICES

After award, the CALNET CMO will determine, for the purpose of applying SLAs, if a Bidder's unsolicited line item is a "service" or a feature of a Mandatory service. Upon determination by the CALNET CMO, the Contractor shall update the existing SLAs with the CALNET CMO approved modifications for the SLAs in Section 15.4.8, *Technical Service Level Agreements*. Changes may include addition of service names, addition of objectives if current objectives do not apply, and provisioning intervals.

The Contractor shall add the unsolicited services, as determined by the CALNET CMO, to the "Service(s)" component of the SLA. If an unsolicited item, or group of unsolicited items, is determined to be a "service" the Contractor will honor the objective commitment made for the Mandatory service. If an SLA requires additional objectives or provisioning intervals then the CALNET CMO and the Contractor shall negotiate the objective and/or interval. If the CALNET CMO and the Contractor cannot mutually agree to an objective or interval, then the item and or group of items under the service shall be considered a feature of the Mandatory service and therefore shall be included as such under the SLA's as defined in each Category.

All unsolicited service features shall be included as such under the SLAs as defined for each service in each SLA. If the CALNET CMO determines additional objectives or provisioning intervals are required for the unsolicited feature then the CALNET CMO and the Contractor shall negotiate the objective or provisioning interval.

Bidder understands the Requirement and shall meet or exceed it? Yes X No _____