



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
639000024

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
MICHAEL AUSTIN 304-558-2402

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

SHIP TO

DIVISION OF HIGHWAYS
 CHIEF OF INFORMATION SYSTEMS
 BUILDING 5
 1900 KANAWHA BOULEVARD, EAST
 CHARLESTON, WV
 25305-0430 304-558-0408

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/02/2009				

BID OPENING DATE: 02/11/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 7						
CHANGES AND ADDITIONS TO THE SPECIFICATIONS ATTACHED.						
BID OPENING DATE AND TIME REMAINS 02/11/09 @1:30 P.M.						
NO OTHER CHANGES						
0001	11	EA		840-45		
GPS POSITIONING SYSTEMS WITH RECEIVER						
0002	32	EA		840-45		
GPS POSITIONING SYSTEM CONSTANTLY OPERATING STATION						
***** THIS IS THE END OF RFQ 639000024 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130

ADDENDUM NO. 7

Page 16, Technical Specifications, Section 202, Antenna

Revise specification to read:

Specification: The vendor shall supply a multi-channel GNSS antenna.

Page 17, Technical Specifications, Section 202.1 – Interfaces

Move the ten bullets to: Item 201.7

ADD THE FOLLOWING TO THE END OF SECTION 100

Vendor's CORS Hardware and Firmware Support Agreement shall be extended to Five Years. Vendor should review the attached "Phase I" and "Phase II" with station addresses for Station Locations.

ADD THE FOLLOWING BID ITEMS:

Phase 1 Software

Quantity: 1

Vendor shall provide Multiple Base Software for unlimited number of CORS Stations to Interface via a WVDOH provided high speed internet network and network hardware. Phase 1 Software will permit individual Base Stations to come online as installs are completed. Vendor will provide remote Software Support, Upgrades, and Warranty for Phase 1 Software for a period of five years from date of issued Purchase Order.

- The Control software must be capable of communicating with CORS using native Trimble RT17 and TRT27 protocols to assure compatibility with currently-owned state equipment.
- Detect if real-time Ethernet connections to CORS have been lost. Upon reconnection the software must automatically download all remote CORS receiver memories and store the data in existing files. This will assure a high degree of data integrity.
- The software must work as a fully-integrated system with existing State-owned CORS receivers.
- The software must be capable of simultaneously operating as:
 - A single-base correction generator
 - RTCM 3.1 NET (Master Auxiliary Concept - MAC) standard generator
 - Virtual Reference Station (Non-Physical or Computed Reference Station) generator
 - DGPS and RTK correction generator – simultaneously
- The software must incorporate SPAM filters for web site registration and post-processing services.
- The software will validate registration entries, searching for duplicate entries or assigning login values for new users. All users will be required to key in a security code for registration validation.

- The software security code activation will make use of CAPTCHA (Completely Automated Public Turing test to tell Computers and Humans Apart) to generate security code
- The Control Centre software must be capable of distributing logged-on rover locations via NMEA format to other applications.

Phase 2 Software Upgrade Quantity: 1

Vendor shall provide VRS Network Software Upgrade for unlimited number of CORS Stations to Interface via a WVDOH provided high speed internet network and network hardware. Vendor will provide remote Software Support, Upgrades, and Warranty for Phase 2 Software for a period of five years from date of issued Purchase Order. Vendor will supply a recommended Minimum Network Server / Hardware Component List for full VRS Network Upgrade to insure WVDOH IT Professionals specify and provide adequate network hardware from the system start up. Vendors should be aware the CORS Network might be expanded to include additional surrounding States CORS Stations to insure full Network coverage of the State of West Virginia.

Masonry Building Mounting Kit

Vendor must supply a sketch and parts list of supplied components of the proposed Masonry Building Mounting Kit. Vendor must refer to NGS Technical Specification Document titled "Guidelines for New and Existing Continuously Operating Reference Stations (CORS)" Dated " February, 2006" to insure the Masonry Building Mounting Kit design complies with those requirements set forth to be designated as a "National CORS". This line item also includes all previously unaddressed CORS installation hardware components in this bid document including: Low signal loss GPS Antenna Cables, GPS Antenna inline lightning arrestor, Uninterruptable power supply for CORS Receiver.

Vendor requirement

- The supplier must state at least three (3) networks with more than 100 reference stations connected supporting the VRS or FKP technology.
- The supplier must have installations in three or more networks of at least 50 stations owned and operated by North American State Departments of Transportation.
 - The networks must be operating and not consist of sales whereby equipment is uninstalled or non-commissioned.
 - The system(s) must be in operational use as part of a real-time network to be considered references.

West Virginia Department of Transportation:

Proposed COR Stations Phase I & II

- | | |
|---|--|
| 17. Seth Substation
WV 3 – 0.75 Mi. South of Jct. CR 3/3
304-837-3642
Boone County | Petersburg, WV 26847
304-257-4455 |
| 18. Hurricane Substation
WV 34 – 0.2 Mi. East of Hurricane Creek Road
304-562-6641
Putnam County | 26. Slanesville Substation
WV 29 – 0.8 Mi. East of Jct. CR 3 & CR 45/20
304-496-7387
Hampshire County |
| 19. Maysel Stockpile
Jct. WV 4 & WV 36
Clay County | 27. Pine Grove Substation
WV 20 – 0.3 Mi. West of Pine Grove
304-889-3251
Wetzel County |
| 20. Crum Substation
US 52 – 2.5 Mi. South of Jct. WV 152
304-393-4052
Wayne County | 28. Brooke County Headquarters
RD 2, Box 615
Weillsburg, WV 26070
304-238-1199 |
| 21. Roane County Headquarters
296 Charleston Road
Spencer, WV 25276
304-927-0962 | 29. District Seven Headquarters
255 Depot Street
Weston, WV 26452
304-269-0407 |
| 22. District Three Headquarters
624 Depot Street
Parkersburg, WV 26101
304-420-4595 | 30. Pickens Substation
CR 45 – at the Jct. of CR 46/1 & CR 45
304-924-5544
Randolph County |
| 23. Taylor County Headquarters
Route 2, Box 502
Grafton, WV 26354
304-265-6110 | 31. Thornwood Stockpile
CR 28/19 – 0.2 Mi. North of US 250 near Bartow
Pocahontas County |
| 24. Aurora Substation
US 50 – 0.5 Mi. West of Aurora
304-735-3311
Preston County | 32. Summers County Headquarters
HC 77, Box 99
Hinton, WV 25951
304-466-2802 |
| 25. Grant County Headquarters
HC 59, Box 245 | 33. District Ten Headquarters
270 Hardwood Lane
Princeton, WV 24740
304-487-5228 |

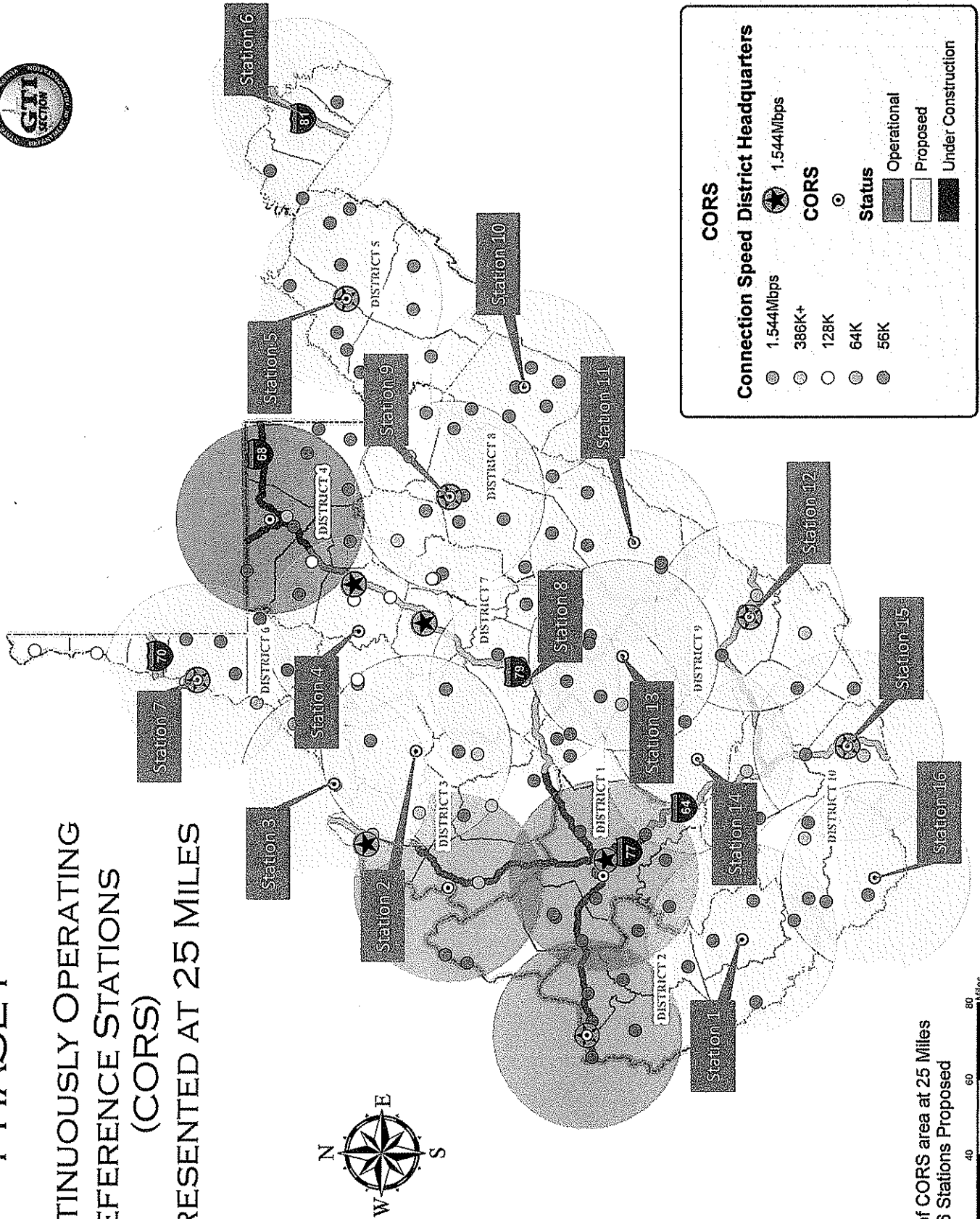
West Virginia Department of Transportation:

Proposed COR Stations Phase I & II

- | | |
|---|--|
| <p>1. Logan County Headquarters
P.O. Box 511
Wilkinson, WV 25653
304-792-7035</p> | <p>10. Pendleton County Headquarters
P.O. Box 36
Franklin, WV 26807
304-358-2702</p> |
| <p>2. Smithville Stockpile
WV 47 - 0.2 Mi. East of Jct. WV 47 & WV 165
Ritchie County</p> | <p>11. Pocahontas County Headquarters
Rt. 1, Box 51
Marlinton, WV 24954
304-799-4867</p> |
| <p>3. Colin Anderson Stockpile
Near WV 2 - 3.2 Mi. North of Jct. WV 2 & WV 16
Pleasants County</p> | <p>12. District Nine Headquarters
103 1/2 Church Street
Lewisburg, WV 24901
304-647-7450</p> |
| <p>4. Corridor D, Section 2 (Tunnel Hill)
US 50 Flinderation Rd.
West Clarksburg, WV 26426
304-627-2410</p> | <p>13. Curtin Substation
8238 Ridgewood Rd.
Craigsville/Fenwick, WV
Nicholas County
304-846-9501</p> |
| <p>5. District 5 Headquarters
P.O. Box 99
Burlington, WV 26710
304-289-3521</p> | <p>14. Fayette County Headquarters
1885 East Main Street
Oak Hill, WV 25901
304-256-6940</p> |
| <p>6. Berkeley County Headquarters
1867 Rock Cliff Drive
Martinsburg, WV 25401
304-267-0060</p> | <p>15. District Ten Headquarters
270 Hardwood Lane
Princeton, WV 24740
304-487-5228</p> |
| <p>7. District Six Headquarters
1 DOT Drive
Moundsville, WV 26041
304-843-4000</p> | <p>16. Yukon Substation
WV 83 - West of Jct. WV 16, near War
304-875-3845
McDowell County</p> |
| <p>8. Braxton County Headquarters
1001 State Street
Gassaway, WV 26624
304-364-5238</p> | |
| <p>9. District Eight Headquarters
P.O. Box 1516
Elkins, WV 26241
304-637-0220</p> | |



PHASE I
CONTINUOUSLY OPERATING
REFERENCE STATIONS
(CORS)
REPRESENTED AT 25 MILES



Coverage of CORS area at 25 Miles
 Phase I: 16 Stations Proposed

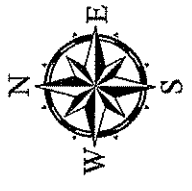
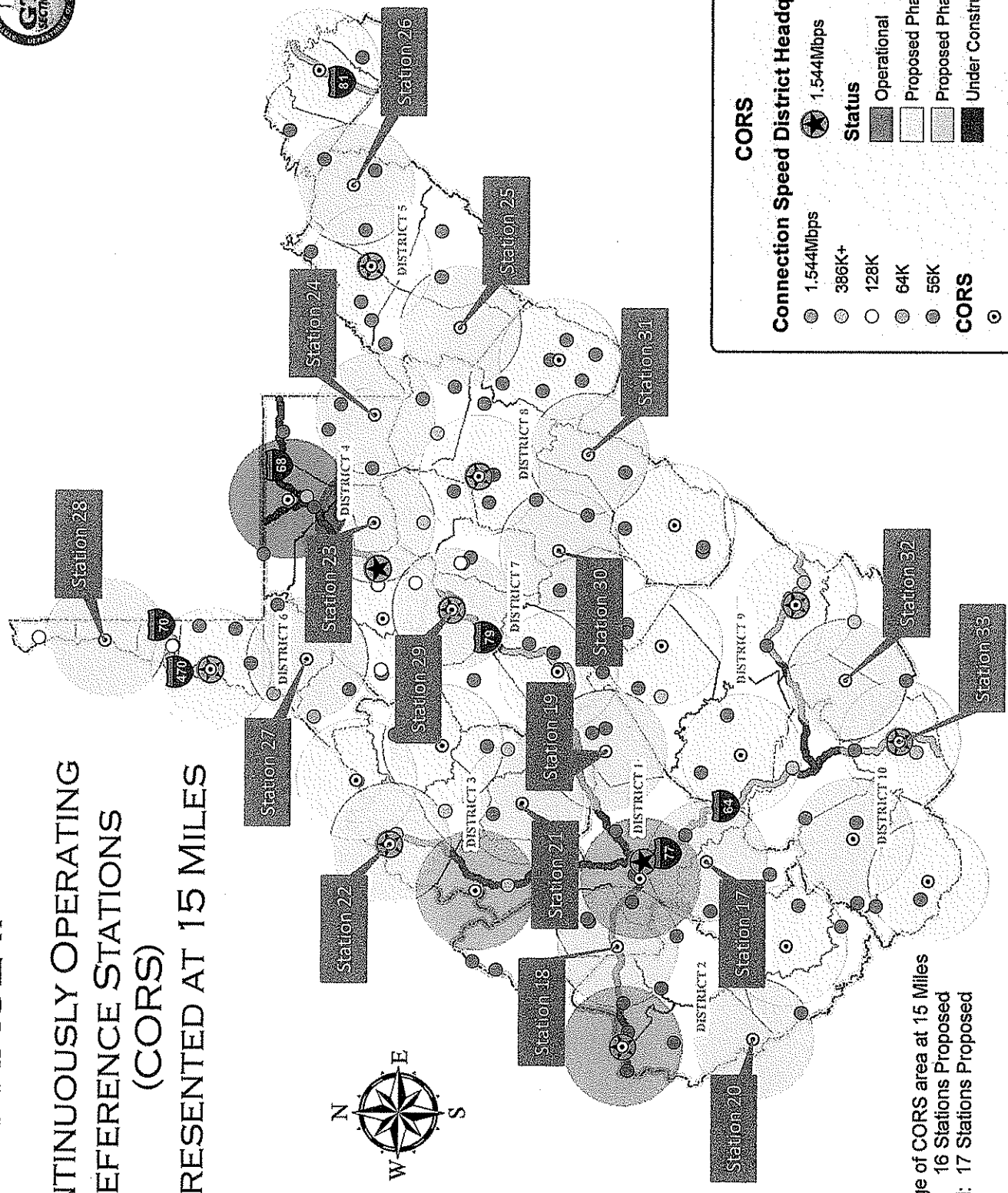




PHASE II

CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS)

REPRESENTED AT 15 MILES



CORS

Connection Speed District Headquarters

- 1.544Mbps
- 386K+
- 128K
- 64K
- 56K

Status

- Operational
- Proposed Phase I
- Proposed Phase II
- Under Construction

CORS

- Reference Station

Coverage of CORS area at 15 Miles
 Phase I: 16 Stations Proposed
 Phase II: 17 Stations Proposed

