Bid Category 8.1 - 28-01 : Low Voltage Cabling

A. **Specification Sections**

28 1000	Technology Overview
28 1100	Communications Room
28 1150	Communications Grounding
28 1500	Fiber Cabling
28 1600	CAT-6 Cabling
28 5470	AV Cabling
28 7200	Technology Submittals *(As pertains to this bid category)*
28 7600	Technology Labeling *(As pertains to this bid category)*
28 7700	Technology Testing *(As pertains to this bid category)*
28 7750	Technology Training *(As pertains to this bid category)*
28 7800	Technology Warranty *(As pertains to this bid category)*

B. GENERAL INCLUSIONS
1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.
2. Work scope for this category applies to all (3) projects included in Appendix A – Project Drawings. (Wylie ES Additions, New Fieldhouse, Dexter HS Additions)

C. SPECIFIC INCLUSIONS
1. Perform, furnish and installation of all specification sections above unless noted differently below.
2. Furnish and install the cabling, racks, patch panels, fiber optics, drops, parts and pieces including jacks and J-hooks, cable termination, testing, documentation as Coordinate extensively with the electrical contractor for conduit systems including junction box systems and specialty back boxes such that routing and terminal locations are agreed to by all parties and approved by the architect/engineer and CM.
3. Provide all wire pulls as indicated in drawings and specs. Coordinate final termination points and connections with responsible contractor.
4. Coordinate with Dexter CS with requirements for data rack cable loops and slack loops in all cabling before final terminations.
5. Furnish and install all cabling and equipment/devices as indicated in TC series of drawings and specs.
6. Provide all licenses and warranties per the above specification sections.
7. Furnish and install low-volt cabling for a complete Audio Visual system for Dexter HS Auditorium as depicted in AV drawings (AV0.01 – AV6.9)
8. Include multiple mobilization for work as needed for completion.
9. Include all firestopping and joint sealants as needed for this bid category.

D. EXCLUDED
1. Cabling required for access controls.
2. Cabling required for DHS Theatre shown on Dexter Highschool Addition Drawings AV0.01-AV6.9.

E. ALLOWANCES
1. Include in base bid an allowance of $10,000 for furnish and install of misc. conduit as directed by the Construction Manager. Allowance to be used on time-and-material basis.
2. Include in base bid an allowance of $5,000 for unforeseen condition/scope as directed by the Construction Manager. Allowance to be used on time-and-material basis.

F. REQUESTED ALTERNATES
1. N/A

END OF SECTION

Bid Category 8.2 - 28-02 : Audio Visual Systems

A. **Specification Sections**

28 1000	Technology Overview
28 1100	Communications Room
28 1150	Communications Grounding
28 1700	Clock System-IP
28 1800	Paging IP-System
28 5000	AV Systems Integration
28 5350	Classroom Audio
28 5400	Video Equipment
28 5401	Flat Panel Video Displays
28 5450	Audio Equipment
28 5453	Audio Speakers
28 7200	Technology Submittals *(As pertains to this bid category)*
28 7600	Technology Labeling *(As pertains to this bid category)*
28 7700	Technology Testing *(As pertains to this bid category)*
28 7750	Technology Training *(As pertains to this bid category)*
28 7800	Technology Warranty *(As pertains to this bid category)*

B. GENERAL INCLUSIONS
1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.
2. Work scope for this category applies to all (3) projects included in Appendix A – Project Drawings. (Wylie ES Additions, New Fieldhouse, Dexter HS Additions)

C. SPECIFIC INCLUSIONS
1. Perform, furnish and installation of all specification sections above unless noted differently below.
2. Furnish and install backbox's for identified scoped items, coordinate install of box's with 26-01 Electrical for in-wall conduit locations.
3. Furnish and install parts and pieces including jacks and J-hooks, cable termination, testing, documentation etc. as Coordinate extensively with the electrical contractor for conduit systems including junction box systems and specialty back boxes such that routing and terminal locations are agreed to by all parties and approved by the architect/engineer and CM.
4. Provide LCD backboxes to electrical contractor for installation. Coordinate height and mounting requirements.
5. Coordinate final mounting heights and device locations with Dexter CS and Granger CM Team.
6. Provide testing of scoped items to ensure proper working and integration with systems.
7. Provide all licenses and warranties per the above specification sections.
8. Coordinate all final connection cabling and equipment/devices as indicated in TC series of drawings and specs with the 28-01 Low Voltage Cabling contractor.
9. Include multiple mobilization for work as needed for completion.
10. Include all firestopping and joint sealants as needed for this bid category.

D. EXCLUDED
1. Dexter Highschool AV system shown on AV0.01-AV6.9.

E. ALLOWANCES
1. N/A

F. REQUESTED ALTERNATES
1. N/A

END OF SECTION

Bid Category 8.3 - 28-03 : Access Controls

A. **Specification Sections**

28 1000	Technology Overview
28 1100	Communications Room
28 1150	Communications Grounding
28 3500	Access Controls
28 7200	Technology Submittals *(As pertains to this bid category*
28 7600	Technology Labeling *(As pertains to this bid category*
28 7700	Technology Testing *(As pertains to this bid category*
28 7750	Technology Training *(As pertains to this bid category*
28 7800	Technology Warranty*(As pertains to this bid category*

B. GENERAL INCLUSIONS
1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.
2. Work scope for this category applies to all (3) projects included in Appendix A – Project Drawings. (Wylie ES Additions, New Fieldhouse, Dexter HS Additions)

C. SPECIFIC INCLUSIONS
1. Perform, furnish and installation of all specification sections above unless noted differently below.
2. Furnish and install backbox's for identified scoped items, coordinate install of box's with 26-01 Electrical for in-wall conduit locations.
3. Furnish and install parts and pieces including jacks and J-hooks, cable termination, testing, documentation, etc. as Coordinate extensively with the electrical contractor for conduit systems including junction box systems and specialty back boxes such that routing and terminal locations are agreed to by all parties and approved by the architect/engineer and CM.
4. Coordinate all final connection cabling and equipment/devices as indicated in TC series of drawings and specs with the 28-01 Low Voltage Cabling contractor.
5. Coordinate lockdown button, release button, and card reader locations with CM and owner prior to final installation.
6. Provide raceways and all cabling in door frames for door hardware. Coordinate with 06-01 contractor to install prior to grouting of frames.
7. Coordinate final mounting heights and device locations with Dexter CS and Granger CM Team.
8. Provide testing of scoped items to ensure proper working and integration with systems.
9. Provide all licenses and warranties per the above specification sections.
10. Include multiple mobilization for work as needed for completion.
11. Include all firestopping and joint sealants as needed for this bid category.

D. EXCLUDED
1. Door hardware by others

E. ALLOWANCES
1. N/A

F. REQUESTED ALTERNATES
1. N/A

END OF SECTION

Bid Category 8.4 - 28-04 : Video Security

A. **Specification Sections**

28 1000	Technology Overview
28 1100	Communications Room
28 1150	Communications Grounding
28 3600	Security Recording
28 3700	Security Cameras
28 7200	Technology Submittals *(As pertains to this bid category)*
28 7600	Technology Labeling *(As pertains to this bid category)*
28 7700	Technology Testing *(As pertains to this bid category)*
28 7750	Technology Training *(As pertains to this bid category)*
28 7800	Technology Warran *(As pertains to this bid category)*

B. GENERAL INCLUSIONS
1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.
2. Work scope for this category applies to all (3) projects included in Appendix A – Project Drawings. (Wylie ES Additions, New Fieldhouse, Dexter HS Additions)

C. SPECIFIC INCLUSIONS
1. Perform, furnish and installation of all specification sections above unless noted differently below.
2. Furnish and install backbox's for identified scoped items, coordinate install of box's with 26-01 Electrical for in-wall conduit locations.
3. Coordinate all final connection cabling and equipment/devices as indicated in TC series of drawings and specs with the 28-01 Low Voltage Cabling contractor.
4. Furnish and install parts and pieces including jacks and J-hooks, cable termination, testing, documentation, etc. as Coordinate extensively with the electrical contractor for conduit systems including junction box systems and specialty back boxes such that routing and terminal locations are agreed to by all parties and approved by the architect/engineer and CM.
5. Coordinate all final connection cabling and equipment/devices as indicated in TC series of drawings and specs with the 28-01 Low Voltage Cabling contractor.
6. Coordinate display panels and camera locations with CM and owner prior to final installation.
7. Coordinate final mounting heights and device locations with Dexter CS and Granger CM Team.
8. Provide testing of scoped items to ensure proper working and integration with systems.
9. Provide all licenses and warranties per the above specification sections.
10. Include multiple mobilization for work as needed for completion.
11. Include all firestopping and joint sealants as needed for this bid category.

D. EXCLUDED
1. Door hardware by others

E. ALLOWANCES
1. N/A

F. REQUESTED ALTERNATES
1. N/A

END OF SECTION

Bid Category 8.5 - 28-05 : Theater System & Equipment

A. **Specification Sections**

28 1000	Technology Overview
28 1100	Communications Room
28 1150	Communications Grounding
28 1800	Paging IP-System
28 5000	AV Systems Integration
28 5400	Video Equipment
28 5401	Flat Panel Video Displays
28 5450	Audio Equipment
28 5453	Audio Speakers
28 7200	Technology Submittals *(As pertains to this bid category)*
28 7600	Technology Labeling *(As pertains to this bid category)*
28 7700	Technology Testing *(As pertains to this bid category)*
28 7750	Technology Training *(As pertains to this bid category)*
28 7800	Technology Warranty *(As pertains to this bid category)*

B. GENERAL INCLUSIONS
1. Reference Project Manual, Specification Section 00 2113 Instructions To Bidders, Item 23 for list of General Scope of Work Clarifications that apply to ALL bid categories.
2. Work scope for this category applies to all (3) projects included in Appendix A – Project Drawings. (Wylie ES Additions, New Fieldhouse, Dexter HS Additions)

C. SPECIFIC INCLUSIONS
1. Perform, furnish and installation of all specification sections above unless noted differently below.
2. Furnish and install in-wall backbox's and conduit for identified scoped items.
3. Furnish and install all cabling and connection required for this bid category.
4. Furnish and install a complete Audio Visual system for Dexter HS Auditorium as depicted in AV drawings (AV0.01 – AV6.9)
5. Furnish and install parts and pieces including jacks and J-hooks, cable termination, testing, documentation, etc. as Coordinate extensively with the electrical contractor for conduit systems including junction box systems and specialty back boxes such that routing and terminal locations are agreed to by all parties and approved by the architect/engineer and CM.
6. Coordinate all deliveries with owners theatre schedule. Select items will need to be delivered just-in-time and installed
7. Coordinate display panels and speaker locations with CM and owner prior to final installation.
8. Coordinate final mounting heights and device locations with Dexter CS and Granger CM Team.
9. Provide testing of scoped items to ensure proper working and integration with systems.
10. The Theatre will be in-use during the proposed construction timeline. Include multiple mobilization for work as needed for completion.
11. Scheduling for construction activities will need to be coordinated with the owner beforehand to ensure theatre wont be in use.
12. Contractor is to identify schedule delivery dates beforehand for coordination of working hours with theatre use once available.
13. Include all firestopping and joint sealants as needed for this bid category.

D. EXCLUDED
1. N/A

E. ALLOWANCES
1. Include in base bid an allowance of $5,000 for unforeseen condition/scope as directed by the Construction Manager. Allowance to be used on time-and-material basis.

F. REQUESTED ALTERNATES
   1. N/A

END OF SECTION