ELMIRA CITY SCHOOL DISTRICT

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

1000 BROADWAY ST, ELMIRA, NY 14904

CONSTRUCTION DOCUMENTS

LIST OF DRAWINGS:

VOLUME 1

GENERAL DRAWINGS AND CODE COMPLIANCE

BR-G1.1	SYMBOLS AND ABBREVIATIONS
BR-G1.2	CODE COMPLIANCE - FIRE SAFETY PLAN
BR-G1.3	CODE COMPLIANCE - LIFE SAFETY PLAN - SOUTH
BR-G1.4	CODE COMPLIANCE - LIFE SAFETY PLAN - NORTH
BR-G1.5	CONSTRUCTION PHASING PLANS

HAZARDOUS MATERIAL DRAWINGS

BR-H1.1	ASBESTOS ABATEMENT PLAN - AREA D2

SITE DRAWINGS

BR-C0.0	SITE EXISTING CONDITIONS PLAN
BR-C0.1	SITE EXISTING CONDITIONS PLAN
BR-C0.2	SITE EXISTING CONDITIONS PLAN
BR-C1.1	SITE DEMOLITION PLAN
BR-C1.2	SITE DEMOLITION PLAN
BR-C2.0	SITE IMPROVEMENT PLAN
BR-C2.1	SITE IMPROVEMENT PLAN
BR-C2.2	SITE IMPROVEMENT PLAN
BR-C3.1	SITE LAYOUT PLAN
BR-C3.2	SITE LAYOUT PLAN
BR-C4.1	SITE GRADING PLAN
BR-C4.2	SITE GRADING PLAN
BR-C5.1	SITE UTILITY PLAN
BR-C5.2	SITE UTILITY PLAN
BR-C6.1	SITE DETAILS
BR-C6.2	SITE DETAILS
BR-C7.1	SITE EROSION AND SEDIMENT CONTROL PLAN
BR-C7.2	SITE EROSION AND SEDIMENT CONTROL PLAN
BR-C8.1	SITE EROSION AND SEDIMENT CONTROL DETAILS

STRUCTURAL DRAWINGS

BR-S0.1	STRUCTURAL GENERAL NOTES
BR-S0.2	FOUNDATION AND FRAMING DEMO PLANS
BR-S1.1	KEY PLANS
BR-S1.2	FOUNDATION & FLOOR FRAMING PLANS - AREAS A2, C & D2
BR-S1.3	ROOF FRAMING PLANS - AREA A1, B1, B2, AND C
BR-S1.4	ROOF FRAMING PLAN - AREA D1
BR-S1.5	LOW ROOF FRAMING PLAN - AREAS E1, E2, F1, F2, AND G
BR-S1.6	HIGH ROOF FRAMING PLAN - AREAS A2, D1 AND E1
BR-S3.1	FOUNDATION DETAILS
BR-S4.1	FRAMING DETAILS
BR-S4.2	FRAMING DETAILS
BR-S7.1	JOIST LOADING DIAGRAMS

ARCHITECTURAL DRAWINGS

BR-A0.1	FIRST FLOOR DEMOLITION PLAN - AREA A1
BR-A0.2	FIRST FLOOR DEMOLITION PLAN - AREA A2
BR-A0.3	FIRST FLOOR DEMOLITION PLAN - AREA B1
BR-A0.4	FIRST FLOOR DEMOLITION PLAN - AREA B2
BR-A0.5	FIRST FLOOR DEMOLITION PLAN - AREA C
BR-A0.6	FIRST FLOOR DEMOLITION PLAN - AREA D1
BR-A0.7	FIRST FLOOR DEMOLITION PLAN - AREA D2
BR-A0.8	FIRST FLOOR DEMOLITION PLAN - AREA E1
BR-A0.9	FIRST FLOOR DEMOLITION PLAN - AREA E2
BR-A0.10	FIRST FLOOR DEMOLITION PLAN - AREA F1
BR-A0.11	FIRST FLOOR DEMOLITION PLAN - AREA F2
BR-A0.12	FIRST FLOOR DEMOLITION PLAN - AREA G
BR-A0.13	SECOND FLOOR DEMOLITION PLAN
BR-A1.1	KEY PLANS
BR-A1.2	FIRST FLOOR PLAN - AREA A1
BR-A1.3	FIRST FLOOR PLAN - AREA A2
BR-A1.4	FIRST FLOOR PLAN - AREA B1
BR-A1.5	FIRST FLOOR PLAN - AREA B2
BR-A1.6	FIRST FLOOR PLAN - AREA C
BR-A1.7	FIRST FLOOR PLAN - AREA D1

ARCHITECTURAL DRAWINGS

BR-A1.8	FIRST FLOOR PLAN - AREA D2
BR-A1.9	FIRST FLOOR PLAN - AREA E1
BR-A1.10	FIRST FLOOR PLAN - AREA E2
BR-A1.11	FIRST FLOOR PLAN - AREA F1
BR-A1.12	FIRST FLOOR PLAN - AREA F2
BR-A1.13	FIRST FLOOR PLAN - AREA G
BR-A1.14	SECOND FLOOR PLAN
BR-A2.1	FIRST FLOOR REFLECTED CEILING PLAN - AREA A1
BR-A2.2	FIRST FLOOR REFLECTED CEILING PLAN - AREA A2
BR-A2.3	FIRST FLOOR REFLECTED CEILING PLAN - AREA B1
BR-A2.4	FIRST FLOOR REFLECTED CEILING PLAN - AREA B2
BR-A2.5	FIRST FLOOR REFLECTED CEILING PLAN - AREA C
BR-A2.6	FIRST FLOOR REFLECTED CEILING PLAN - AREA D1
BR-A2.7	FIRST FLOOR REFLECTED CEILING PLAN - AREA D2
BR-A2.8	FIRST FLOOR REFLECTED CEILING PLAN - AREA E1
BR-A2.9	FIRST FLOOR REFLECTED CEILING PLAN - AREA E2
BR-A2.10	FIRST FLOOR REFLECTED CEILING PLAN - AREA F1
BR-A2.11	FIRST FLOOR REFLECTED CEILING PLAN - AREA F2
BR-A2.12	FIRST FLOOR REFLECTED CEILING PLAN - AREA G
BR-A2.13	SECOND FLOOR REFLECTED CEILING PLAN
BR-A2.14	CEILING DETAILS
BR-A3.1	EXTERIOR ELEVATIONS AND BUILDING SECTIONS
BR-A5.1	INTERIOR ELEVATIONS
BR-A5.2	INTERIOR ELEVATIONS
BR-A5.3	ENLARGED PLANS AND SCHEDULES
BR-A6.1	DOOR SCHEDULE & TYPES
BR-A6.2	WINDOWS AND STOREFRONT DETAILS & SCHEDULES
BR-A7.1	PARTITION TYPES & DETAILS
BR-A7.2	DETAILS
BR-A8.1	FIRST FLOOR FINISH PLAN - AREA A2
BR-A8.2	FIRST FLOOR FINISH PLAN - AREA B1
BR-A8.3	FIRST FLOOR FINISH PLAN - AREA B1 - ALTERNATE
BR-A8.4	FIRST FLOOR FINISH PLAN - AREA B2
BR-A8.5	FIRST FLOOR FINISH PLAN - AREA C
BR-A8.6	FIRST FLOOR FINISH PLAN - CAFETERIA
BR-A8.7	FIRST FLOOR FINISH PLAN - AREA D1
BR-A8.8	FIRST FLOOR FINISH PLAN - AREA E1
BR-A8.9	FIRST FLOOR FINISH PLAN - AREA F1 & G
BR-A8.10	FIRST FLOOR WALL FINISH PLAN - AREA A1
BR-A8.11	FIRST FLOOR WALL FINISH PLAN - AREA A2
BR-A8.12	FIRST FLOOR WALL FINISH PLAN - AREA B1
BR-A8.13	FIRST FLOOR WALL FINISH PLAN - AREA B2
BR-A8.14	FIRST FLOOR WALL FINISH PLAN - AREA C
BR-A8.15	FIRST FLOOR WALL FINISH PLAN - AREA D1
BR-A8.16	FIRST FLOOR WALL FINISH PLAN - AREA D2
BR-A8.17	FIRST FLOOR WALL FINISH PLAN - AREA E1
BR-A8.18	FIRST FLOOR WALL FINISH PLAN - AREA E2 & F1
BR-A8.19	FIRST FLOOR WALL FINISH PLAN - AREA F2
BR-A8.20	FIRST FLOOR WALL FINISH PLAN - AREA G
BR-A8.21	SECOND FLOOR WALL FINISH PLAN
BR-A9.1	INTERIOR FINISH KEY AND SIGNAGE SCHEDULE
BR-A9.2	INTERIOR ROOM FINISH SCHEDULE

ROOFING DRAWINGS

BR-R1.1	ROOF PLAN - AREA A1
BR-R1.2	ROOF PLAN - AREA A2
BR-R1.3	ROOF PLAN - AREA B1
BR-R1.4	ROOF PLAN - AREA B2
BR-R1.5	ROOF PLAN - AREA C
BR-R1.6	ROOF PLAN - AREA D1
BR-R1.7	ROOF PLAN - AREA D2
BR-R1.8	ROOF PLAN - AREA E1
BR-R1.9	ROOF PLAN - AREA E2 AND F1
BR-R1.10	ROOF PLAN - AREA F2
BR-R1.11	ROOF PLAN - AREA G
BR-R1.12	ROOF DETAILS

VOLUME 2

GENERAL DRAWINGS AND CODE COMPLIANCE

BR-G1.1	SYMBOLS AND ABBREVIATIONS
BR-G1.2	CODE COMPLIANCE - FIRE SAFETY PLAN
BR-G1.3	CODE COMPLIANCE - LIFE SAFETY PLAN - SOUTH
BR-G1.4	CODE COMPLIANCE - LIFE SAFETY PLAN - NORTH
BR-G1.5	CONSTRUCTION PHASING PLANS

THEATRICAL DRAWINGS

BR-TL0.1	THEATRICAL LIGHTING SYSTEM LOWER LEVEL REMOVAL PLAN-AREA D2
BR-TL0.2	THEATRICAL LIGHTING SYSTEM UPPER LEVEL REMOVAL PLAN-AREA D2
BR-TL1.1	THEATRICAL LIGHTING SYSTEM LOWER LEVEL CONTROL PLAN-AREA D2
BR-TL1.2	THEATRICAL LIGHTING SYSTEM UPPER LEVEL CONTROL PLAN-AREA D2
BR-TL1.3	THEATRICAL LIGHTING SYSTEM THEATRICAL FIXTURE PLAN-AREA D2
BR-TL1.4	THEATRICAL LIGHTING SYSTEM HOUSE & WORK LIGHTING PLAN-AREA D2
BR-TL1.5	THEATRICAL LIGHTING SYSTEM HOUSELIGHTING SECTION-AREA D2
BR-TL2.1	THEATRICAL LIGHTING SYSTEM SINGLE LINE FLOW DIAGRAM-AREA D2
BR-TL2.2	THEATRICAL LIGHTING SYSTEM SINGLE LINE NETWORK FLOW DIAGRAM-AREA D2
BR-TL3.1	THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2
BR-TL3.2	THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2
BR-TL3.3	THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2
BR-TL3.4	THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2
BR-TL3.5	THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2
BR-TL3.6	THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2
BR-TL3.7	THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2
BR-TL3.8	THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2
BR-TL4.1	THEATRICAL LIGHTING SYSTEM NOTES, KEYS & SCHEDULES-AREA D2
BR-TL4.2	THEATRICAL LIGHTING SYSTEM NOTES, KEYS & SCHEDULES-AREA D2
BR-TL4.3	THEATRICAL LIGHTING SYSTEM NOTES, KEYS & SCHEDULES-AREA D2
BR-TR0.1	THEATRICAL RIGGING SYSTEM LOWER LEVEL REMOVAL PLAN-AREA D2
BR-TR0.2	THEATRICAL RIGGING SYSTEM UPPER LEVEL REMOVAL PLAN-AREA D2
BR-TR1.1	THEATRICAL RIGGING SYSTEM LOWER LEVEL PLAN-AREA D2
BR-TR1.2	THEATRICAL RIGGING SYSTEM UPPER LEVEL PLAN-AREA D2
BR-TR1.3	THEATRICAL RIGGING SYSTEM SECTION-AREA D2
BR-TR1.4	THEATRICAL RIGGING SYSTEM SECTION-AREA D2
BR-TR1.5	THEATRICAL RIGGING SYSTEM ELEVATIONS-AREA D2
BR-TR1.6	THEATRICAL RIGGING SYSTEM ELEVATIONS - AREA D2
BR-TR1.7	THEATRICAL RIGGING SYSTEM ELEVATIONS-AREA D2
BR-TR1.8	THEATRICAL RIGGING SYSTEM ELEVATIONS-AREA D2
BR-TR3.1	THEATRICAL RIGGING SYSTEM DETAILS-AREA D2
BR-TR3.2	THEATRICAL RIGGING SYSTEM DETAILS-AREA D2
BR-TR3.3	THEATRICAL RIGGING SYSTEM DETAILS-AREA D2
BR-TR3.4	THEATRICAL RIGGING SYSTEM DETAILS-AREA D2
BR-TR3.5	THEATRICAL RIGGING SYSTEM DETAILS-AREA D2
BR-TR3.6	THEATRICAL RIGGING SYSTEM DETAILS-AREA D2
BR-TR3.7	THEATRICAL RIGGING SYSTEM DETAILS-AREA D2
BR-TR3.8	THEATRICAL RIGGING SYSTEM DETAILS-AREA D2
BR-TR3.9	THEATRICAL RIGGING SYSTEM DETAILS-AREA D2
BR-TR3.10	THEATRICAL RIGGING SYSTEM DETAILS-AREA D2
BR-TR3.11	THEATRICAL RIGGING SYSTEM DETAILS-AREA D2
BR-TR3.12	THEATRICAL RIGGING SYSTEM DETAILS-AREA D2
BR-TR3.13	THEATRICAL RIGGING SYSTEM DETAILS-AREA D2
BR-TR3.14	THEATRICAL RIGGING SYSTEM DETAILS-AREA D2
BR-TR4.1	THEATRICAL RIGGING SYSTEM NOTES, KEYS & SCHEDULES-AREA D2
BR-TR4.2	THEATRICAL RIGGING SYSTEM NOTES, KEYS & SCHEDULES-AREA D2
BR-TR4.3	THEATRICAL RIGGING SYSTEM NOTES, KEYS & SCHEDULES-AREA D2

FOOD SERVICE DRAWINGS

BR-FS1.0	EXISTING FOODSERVICE EQUIPMENT DRAWING
BR-FS1.1	FOODSERVICE EQUIPMENT DRAWING
BR-FS1.2	FOODSERVICE EQUIPMENT POC DRAWINGS
BR-FS1.3	FOODSERVICE EQUIPMENT POC SCHEDULE

PLUMBING DRAWINGS

BR-P0.1	FIRST FLOOR DEMOLITION PLAN - AREA B1
BR-P0.2	FIRST FLOOR DEMOLITION PLAN - AREA C
BR-P0.3	FIRST FLOOR DEMOLITION PLAN - AREA D1
BR-P0.4	FIRST FLOOR DEMOLITION PLAN - AREA E1
BR-P0.5	FIRST FLOOR DEMOLITION PLAN - AREA E2
BR-P0.6	FIRST FLOOR DEMOLITION PLAN - AREA F1
BR-P0.7	FIRST FLOOR DEMOLITION PLAN - AREA F2
BR-P0.8	FIRST FLOOR DEMOLITION PLAN - AREA G
BR-P0.9	ROOF DEMOLITION PLAN - AREA A1
BR-P0.10	ROOF DEMOLITION PLANS - AREA A2 AND E1
BR-P1.1	FIRST FLOOR SANITARY PLAN - AREA A1
BR-P1.2	FIRST FLOOR SANITARY PLAN - AREAS A2, B1 AND C
BR-P1.3	FIRST FLOOR SANITARY PLAN - AREA D1
BR-P1.4	FIRST FLOOR SANITARY PLAN - AREA E1
BR-P1.5	FIRST FLOOR SANITARY PLAN - AREA E2
BR-P1.6	FIRST FLOOR SANITARY PLAN - AREA F1
BR-P1.7	FIRST FLOOR SANITARY PLAN - AREA F2
BR-P1.8	FIRST FLOOR SANITARY PLAN - AREA G
BR-P2.1	FIRST FLOOR DOMESTIC PLAN - AREAS A2, B1 AND C
BR-P2.2	FIRST FLOOR DOMESTIC PLAN - AREA D1
BR-P2.3	FIRST FLOOR DOMESTIC PLAN - AREA E1
BR-P2.4	FIRST FLOOR DOMESTIC PLAN - AREA E2
BR-P2.5	FIRST FLOOR DOMESTIC PLAN - AREA F1
BR-P2.6	FIRST FLOOR DOMESTIC PLAN - AREA F2
BR-P2.7	FIRST FLOOR DOMESTIC PLAN - AREA G
BR-P2.8	ROOF DOMESTIC PLAN - AREA A2
BR-P3.1	SCHEDULES AND DETAILS

TECHNOLOGY DRAWINGS

BR-T0.1	FIRST & SECOND FLOOR TECHNOLOGY DEMO KEY PLAN
BR-T0.2	FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA A1
BR-T0.3	FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA A2
BR-T0.4	FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA B1
BR-T0.5	FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA B2
BR-T0.6	FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA C
BR-T0.7	FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA D1
BR-T0.8	FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA D2
BR-T0.9	FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA E1
BR-T0.10	FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA E2
BR-T0.11	FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA F1
BR-T0.12	FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA F2
BR-T0.13	FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA G
BR-T0.14	SECOND FLOOR TECHNOLOGY DEMO PLAN - AREA A
BR-T1.1	FIRST & SECOND FLOOR TECHNOLOGY KEY PLAN
BR-T1.2	FIRST FLOOR TECHNOLOGY PLAN - AREA A1
BR-T1.3	FIRST FLOOR TECHNOLOGY PLAN - AREA A2
BR-T1.4	FIRST FLOOR TECHNOLOGY PLAN - AREA B1
BR-T1.5	FIRST FLOOR TECHNOLOGY PLAN - AREA B2
BR-T1.6	FIRST FLOOR TECHNOLOGY PLAN - AREA C
BR-T1.7	FIRST FLOOR TECHNOLOGY PLAN - AREA D1
BR-T1.8	FIRST FLOOR TECHNOLOGY PLAN - AREA D2
BR-T1.9	FIRST FLOOR TECHNOLOGY PLAN - AREA E1
BR-T1.10	FIRST FLOOR TECHNOLOGY PLAN - AREA E2
BR-T1.11	FIRST FLOOR TECHNOLOGY PLAN - AREA F1
BR-T1.12	FIRST FLOOR TECHNOLOGY PLAN - AREA F2
BR-T1.13	FIRST FLOOR TECHNOLOGY PLAN - AREA G
BR-T1.14	SECOND FLOOR TECHNOLOGY PLAN - AREA A
BR-T2.1	TECHNOLOGY DETAILS

VOLUME 3

GENERAL DRAWINGS AND CODE COMPLIANCE

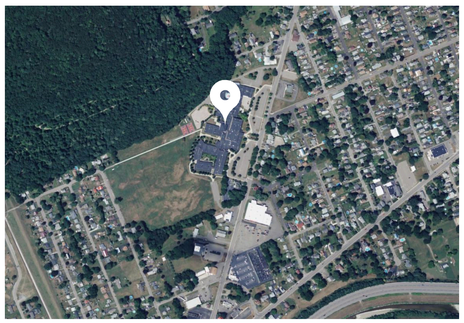
BR-G1.1	SYMBOLS AND ABBREVIATIONS
BR-G1.2	CODE COMPLIANCE - FIRE SAFETY PLAN
BR-G1.3	CODE COMPLIANCE - LIFE SAFETY PLAN - SOUTH
BR-G1.4	CODE COMPLIANCE - LIFE SAFETY PLAN - NORTH
BR-G1.5	CONSTRUCTION PHASING PLANS

MECHANICAL DRAWINGS

BR-M0.1	FIRST FLOOR HVAC DEMOLITION PLAN - AREA A1
BR-M0.2	FIRST FLOOR HVAC DEMOLITION PLAN - AREA A2
BR-M0.3	FIRST FLOOR HVAC DEMOLITION PLAN - AREA B1
BR-M0.4	FIRST FLOOR HVAC DEMOLITION PLAN - AREA B2
BR-M0.5	FIRST FLOOR HVAC DEMOLITION PLAN - AREA C
BR-M0.6	FIRST FLOOR HVAC DEMOLITION PLAN - AREA D1
BR-M0.7	FIRST FLOOR HVAC DEMOLITION PLAN - AREA D2
BR-M0.8	FIRST FLOOR HVAC DEMOLITION PLAN - AREA E1
BR-M0.9	FIRST FLOOR HVAC DEMOLITION PLAN - AREA E2
BR-M0.10	FIRST FLOOR HVAC DEMOLITION PLAN - AREA F1
BR-M0.11	FIRST FLOOR HVAC DEMOLITION PLAN - AREA F2
BR-M0.12	FIRST FLOOR HVAC DEMOLITION PLAN - AREA G
BR-M0.13	SECOND FLOOR HVAC DEMOLITION PLAN - AREA A2
BR-M0.14	SECOND FLOOR HVAC DEMOLITION PLAN - AREA B1
BR-M0.15	GYMNASIUM AND AUD MECHANICAL ROOM DEMO
BR-M0.16	PARTIAL MECHANICAL ROOM DEMOLITION PLAN - AREA E1
BR-M0.17	PARTIAL UPPER AUDUTORIUM FLOOR DEMO PLAN
BR-M1.1	FIRST FLOOR HVAC PLAN - AREA A1
BR-M1.2	FIRST FLOOR HVAC PLAN - AREA A2
BR-M1.3	FIRST FLOOR HVAC PLAN - AREA B1
BR-M1.4	FIRST FLOOR HVAC PLAN - AREA B2
BR-M1.5	FIRST FLOOR HVAC PLAN - AREA C
BR-M1.6	FIRST FLOOR HVAC PLAN - AREA D1
BR-M1.7	FIRST FLOOR HVAC PLAN - AREA D2
BR-M1.8	FIRST FLOOR HVAC PLAN - AREA E1
BR-M1.9	FIRST FLOOR HVAC PLAN - AREA E2
BR-M1.10	FIRST FLOOR HVAC PLAN - AREA F1
BR-M1.11	FIRST FLOOR HVAC PLAN - AREA F2
BR-M1.12	FIRST FLOOR HVAC PLAN - AREA G
BR-M1.13	SECOND FLOOR HVAC PLAN - AREA A2
BR-M1.14	ROOF HVAC PLAN - AREA A1, A2, B1, B2, C, D1, D2
BR-M1.15	ROOF HVAC PLAN - AREA D2, E1, E2, F1, F2, G
BR-M1.16	PARTIAL MECHANICAL ROOM FLOOR PLANS
BR-M1.17	PARTIAL UPPER AUDUTORIUM FLOOR PLAN
BR-M1.18	BOILER ROOM PLAN
BR-M1.19	GYMNASIUM AND AUD MECHANICAL ROOM PLAN
BR-M2.1	FIRST FLOOR PIPING PLAN - AREA A1
BR-M2.2	FIRST FLOOR PIPING PLAN - AREA A2
BR-M2.3	FIRST FLOOR PIPING PLAN - AREA B1
BR-M2.4	FIRST FLOOR PIPING PLAN - AREA B2
BR-M2.5	FIRST FLOOR PIPING PLAN - AREA C
BR-M2.6	FIRST FLOOR PIPING PLAN - AREA D1
BR-M2.7	FIRST FLOOR PIPING PLAN - AREA D2
BR-M2.8	FIRST FLOOR PIPING PLAN - AREA E1
BR-M2.9	FIRST FLOOR PIPING PLAN - AREA E2
BR-M2.10	FIRST FLOOR PIPING PLAN - AREA F1
BR-M2.11	FIRST FLOOR PIPING PLAN - AREA F2
BR-M2.12	FIRST FLOOR PIPING PLAN - AREA G
BR-M2.13	SECOND FLOOR PIPING PLAN - AREA A2
BR-M2.14	SECOND FLOOR PIPING PLAN - AREA B1
BR-M3.1	SCHEDULES
BR-M3.2	DETAILS
BR-M4.1	CLASSROOM VENTILATION INTERIOR ELEVATIONS
BR-M4.2	CLASSROOM VENTILATION INTERIOR ELEVATIONS

ELECTRICAL DRAWINGS

BR-E0.1	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA A1
BR-E0.2	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA A2
BR-E0.3	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA B1
BR-E0.4	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA B2
BR-E0.5	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA C
BR-E0.6	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA D1
BR-E0.7	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA D2
BR-E0.8	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA E1
BR-E0.9	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA E2
BR-E0.10	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA F1
BR-E0.11	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA F2
BR-E0.12	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA G
BR-E0.13	SECOND FLOOR ELECTRICAL DEMOLITION PLAN - AREA A2
BR-E1.1	FIRST FLOOR POWER PLAN - AREA A1
BR-E1.2	FIRST FLOOR POWER PLAN - AREA A2
BR-E1.3	FIRST FLOOR POWER PLAN - AREA B1
BR-E1.4	FIRST FLOOR POWER PLAN - AREA B2
BR-E1.5	FIRST FLOOR POWER PLAN - AREA C
BR-E1.6	FIRST FLOOR POWER PLAN - AREA D1
BR-E1.7	FIRST FLOOR POWER PLAN - AREA D2
BR-E1.8	FIRST FLOOR POWER PLAN - AREA E1
BR-E1.9	FIRST FLOOR POWER PLAN - AREA E2
BR-E1.10	FIRST FLOOR POWER PLAN - AREA F1
BR-E1.11	FIRST FLOOR POWER PLAN - AREA F2
BR-E1.12	FIRST FLOOR POWER PLAN - AREA G
BR-E1.13	SECOND FLOOR POWER PLAN - AREA A2
BR-E1.14	ROOF POWER PLAN - AREA B1 & AREA C
BR-E2.1	FIRST FLOOR LIGHTING PLAN AREA A1
BR-E2.2	FIRST FLOOR LIGHTING PLAN AREA A2
BR-E2.3	FIRST FLOOR LIGHTING PLAN AREA B1
BR-E2.4	FIRST FLOOR LIGHTING PLAN AREA B2
BR-E2.5	FIRST FLOOR LIGHTING PLAN AREA C
BR-E2.6	FIRST FLOOR LIGHTING PLAN AREA D1
BR-E2.7	FIRST FLOOR LIGHTING PLAN AREA D2
BR-E2.8	FIRST FLOOR LIGHTING PLAN AREA E1
BR-E2.9	FIRST FLOOR LIGHTING PLAN AREA E2
BR-E2.10	FIRST FLOOR LIGHTING PLAN AREA F1
BR-E2.11	FIRST FLOOR LIGHTING PLAN AREA F2
BR-E2.12	FIRST FLOOR LIGHTING PLAN AREA G
BR-E2.13	SECOND FLOOR LIGHTING PLAN AREA A2
BR-E3.1	FIRST FLOOR FIRE ALARM PLAN AREA A & B
BR-E3.2	FIRST FLOOR FIRE ALARM PLAN AREA C
BR-E3.3	FIRST FLOOR FIRE ALARM PLAN AREA D1
BR-E3.4	FIRST FLOOR FIRE ALARM PLAN AREA E1
BR-E3.5	FIRST FLOOR FIRE ALARM PLAN AREA F1 & F2
BR-E3.6	FIRST FLOOR FIRE ALARM PLAN AREA G
BR-E3.7	SECOND FLOOR FIRE ALARM PLAN AREA A
BR-E5.1	ELECTRICAL SCHEDULE & DIAGRAMS
BR-E6.1	ONE LINE DIAGRAM
BR-E7.1	SITE ELECTRICAL PLAN



1000 BROADWAY ST, ELMIRA, NY

SED SUBMISSION DATE: 07/24/2026
ISSUED FOR BID DATE: 10/09/2026
HUNT PROJECT NUMBER: 2012.254
BROADWAY ACADEMY CAPITAL PROJECT SED # : 07-06-00-01-0-034-027
BROADWAY ACADEMY CAPITAL OUTLAY SED # :07-06-00-01-0-034-028

THIS IS TO CERTIFY THAT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF - THESE PLANS AND SPECIFICATIONS ARE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE BUILDING CODE, FIRE CODE, ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE AND NYSED MANUAL OF PLANNING STANDARDS.

HUNT ENGINEERS | ARCHITECTS | SURVEYORS

SITEWORK SYMBOLS

- CONTROL POINT
- UTILITY POLE W/ ANCHOR
- SIGN
- EXG. WATER VALVE
- NEW WATER VALVE
- UTILITY POLE W/ LIGHT
- STREET LIGHT
- EXG. FIRE HYDRANT
- NEW FIRE HYDRANT
- CATCH BASIN/ DRYWELL
- CURB BOX VALVE
- EXISTING DECIDIOUS TREE
- EXISTING CONIFEROUS TREE
- X 941.5 — EXG. ELEVATION
- +941.5 — NEW ELEVATION
- G — GAS LINE
- EXISTING MANHOLE
- NEW MANHOLE
- 90 — NEW CONTOUR*
- E — EXISTING ELECTRIC*
- W — WATER LINE*
- SAN — SANITARY LINE*
- TEL — TELEPHONE LINE*
- ST — STORM SEWER*
- O/H — OVERHEAD UTILITY
- UGE — UNDERGROUND ELECTRIC*
- ROAD CENTER LINE
- *LINES SHOWN AS SCREENED(GRAY) DENOTE EXISTING
- EDGE OF STREAM OR SWALE
- SHUBBERY, WOODS
- EXISTING CULVERT
- NEW CULVERT WITH END SECTION

SITEWORK SYMBOLS

- TP-* — TEST PIT
- TH-* — TEST HOLE
- RIP RAP
- COORDINATE POINT LOCATION
- 5/8" REBAR WITH SURVEY CAP SET
- EXISTING IRON ROD
- EXISTING IRON PIPE
- UTILITY POLE
- ORIGINAL LOT LINE
- DEED LINE
- PL — PROPERTY LINE
- x x — EXISTING FENCE
- NEW FENCE
- GUARD RAIL
- EASEMENT LINE
- CONCRETE MONUMENT

PLUMBING SYMBOLS

- (CW) — DOMESTIC COLD WATER PIPING
- (HW) — DOMESTIC HOT WATER PIPING
- (HWR) — DOMESTIC RECIRCULATING WATER PIPING
- SHUT OFF VALVE
- POINT OF CONNECTION
- SPRINKLER HEAD
- VOLUME DAMPER
- (G) — NATURAL GAS PIPING
- BELOW SLAB SANITARY PIPING
- ABOVE SLAB SANITARY PIPING
- ST — BELOW SLAB STORM(ROOF DRAINAGE) PIPING
- RD — ABOVE SLAB STORM(ROOF DRAINAGE) PIPING
- V — (V) — SANITARY VENT PIPING
- CD — (CD) — CONDENSATE DRAIN PIPING
- EXISTING PIPING TO REMAIN.

PLUMBING SYMBOLS

- EXISTING PIPING AND EQUIPMENT TO BE REMOVED
- CHECK VALVE
- FLOOR PENETRATION
- AW — ACID WASTE
- AV — ACID VENT
- HOT WATER SUPPLY PIPING
- HOT WATER RETURN PIPING
- C — CONDENSATE DRAIN PIPING
- RS — REFRIGERANT SUCTION PIPING
- RL — REFRIGERANT LIQUID PIPING
- EXG. PIPING & EQUIPTMENT TO REMAIN
- (OR) — SHUT-OFF VALVE
- TOP-PIPE CONECT
- BOTTOM-PIPE CONNECTION
- BALANCING VALVE/ AUTOMATIC FLOW/ CONTROL FITTING/ SPRINKLER UPRIGHT

HVAC SYMBOLS

- AAD — AUTOMATIC DAMPER
- D-1 / 100 — DIFFUSER NUMBER CFM
- G-1 / 300 — GRILLE NUMBER CFM
- R-1 / 300 — REGISTER NUMBER CFM
- DUCT W/ MANUAL VOLUME DAMPER
- SUPPLY AIR DIFFUSER
- GRILLER OR REG.
- FD — FIRE DAMPER
- T — THERMOSTAT
- T G — THERMOSTAT W/GUARD
- S — SENSOR
- MITERED ELBOW W/ TURNING VALVES
- 10/8 — FIRST NUMBER IS SIZE SHOWN FOR DUCT WIDTH

HVAC SYMBOLS

- POINT OF CONNECTION
- DUCT DOWN
- DUCT UP
- DUCT PENETRATION THRU FLOOR OR ROOF ABOVE SUPPLY
- DUCT PENETRATION THRU FLOOR OR ROOF ABOVE EXHAUST OR RETURN

ELECTRICAL SYMBOLS

- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MAGNETIC STARTER
- COMBINATION MAGNETIC MOTOR STARTER AND FUSED DISCONNECT SWITCH
- PP — FLUSH WALL MOUNTED POWER PANEL
- PP — SURFACE MOUNTED POWER PANEL
- CP-1 — MOTOR TYPE ELECTRICAL LOAD
- HD — HAND DRYER / HAIR DRYER ELEC. LOAD
- XX — UV-UNIT VENT, AHU-AIR HANDLING UNIT, FC- FAN COIL UNIT, P-PUMP, EF-EXHAUST FAN, CU-CONDENSING UNIT
- DUPLEX RECEPTACLE WALL MOUNTED, GFI-GROUND FAULT CIRCUIT INTERRUPT, IG-ISOLATED GROUND TYPE, WP-GROUND FAULT TYPE IN WATERPROOF CAST ALUMINUM HOUSING, AC-MNT. ABOVE COUNTER BACKSPLASH, BC-MNT. BELOW COUNTER
- 14-50R — SPECIAL RECEPTACLE WITH NEMA CONFIGURATION SHOWN
- CB — LARGE CAPACITY COMMUNICATIONS BOX WITH 2-GANG OPENING
- QUAD RECEPTACLE
- $ — TOGGLE SWITCH
- $K — KEYED TYPE TOGGLE SWITCH
- $D — 0-10V DIMMING SWITCH
- $VS — VACANCY SENSOR TYPE SWITCH
- CEILING MOUNTED DOWN LIGHT FIXTURE
- TRACK LIGHTING WITH FIXTURES
- STRIP TYPE LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- 2'X4' RECESSED LIGHT FIXTURE EM-DENOTED EMERGENCY FIXTURE, CONNECTED TO EMERGENCY CIRCUIT; NL-DENOTES NITE LIGHT CKT. TYPES VARY REFER TO FIXTURE SCHEDULE
- PENDANT MOUNTED LIGHT FIXTURE

ELECTRICAL SYMBOLS

- CEILING MOUNTED EXIT SIGN(SINGLE FACE)
- WALL MOUNTED EXIT SIGN (DUAL FACE) ARROWS FOR EGRESS PATH DIRECTION
- EXTERIOR WALL MOUNTED LIGHT FIXTURE
- EMERGENCY EGRESS BATTERY BACKUP LIGHT FIXTURE
- OC — CEILING MOUNTED VACANCY SENSOR
- FAA — FIRE ALARM ANNUNCIATOR
- FACP — FIRE ALARM CONTORL PANEL
- RA — "AREA OF RESCUE ASSISTANCE" MAIN CONTROL STATION
- RR — "AREA OF RESCUE ASSISTANCE" INTERCOM STATION
- ARA — ILLUMINATED "AREA OF RESCUE ASSISTANCE" SIGNAGE
- F — MANUAL FIRE ALARM PULL STATION
- H — RATE OF RISE HEAT DETECTOR
- F 195 — FIXED HEAT DETECTOR
- VN — VISUAL NOTIFICATION STROBE
- S — SMOKE DETECTOR
- SD — DUCT SMOKE DETECTOR
- F — FIRE ALARM VISUAL ANNUNCIATOR
- F — FIRE ALARM AUD.-VIS. ANNUNCIATOR
- M — MAGNETIC DOOR HOLDER
- P1-1 — HOME RUN OF WIRE AND CONDUIT

TECHNOLOGY SYMBOLS

- CABLE TRAY
- FO FO FO — FIBER OPTICAL CABLING
- FLOOR POKE-THRU
- MULTI COMPARTMENT POWER POLE
- FB — FLOOR BOX
- PB — PULL BOX
- MULTI COMPARTMENT SURFACE RACEWAY
- # — DATA OUTLET, # = QUANTITY OF DATA OUTLETS IN FACEPLATE IF GREATER THAN ONE
- WAP — WIRELESS ACCESS POINT
- 48" — WALL MOUNT STYLE TELEPHONE
- ### — IP TELEPHONE LOCATION ### = PHONE TYPE
- S — CEILING MOUNT SPEAKER
- S — WALL MOUNT SPEAKER
- S — HORN TYPE SPEAKER
- VC — SPEAKER VOLUME CONTROL
- C S — CLOCK/SPEAKER
- C — CLOCK
- TV — TELEVISION OUTLET
- PROJ — PROJECTOR

TECHNOLOGY SYMBOLS

INTERACTIVE DISPLAY — DIGITAL INTERACTIVE DISPLAY

- DAV — AUDIO/VIDEO CONNECTIONS
- SECURITY CAMERA — # = CAM NUMBER, ## = CAM. TYPE
- CR — CARD READER
- IC — INTERCOM
- DC — DOOR CONTRACT SWITCH
- REX — REQUEST TO EXIT SENSOR
- DS — ELECTRIC DOOR LOCK DEVICE (DOOR STRIKE)
- LIGHTNING ARRESTOR

GENERAL SYMBOL ANNOTATIONS
"E" =EXISTING TO REMAIN
"R" =EXISTING TO BE REPLACED
"RE" =EXISTING TO BE RELOCATED
"WG" =PROVIDE WIRE GUARD
"W-MT" =WALL MOUNT

- RD — COMMUNICATIONS RACEWAY DEVICE LOCATION
- CB — COMMUNICATIONS BACKBOX LOCATION
- BL — BLUE LIGHT
- C — DIGITAL CLOCK
- C C — DOUBLE SIDED WALL MOUNTED CLOCK
- HC — HANDICAP DOOR ACTUATOR
- ACP — ACCESS CONTROL PANEL
- S AL — ASSISTIVE LISTENING CEILING SPEAKER
- S AL — ASSISTIVE LISTENING WALL SPEAKER
- AL — ASSISTIVE LISTENING CONTROLLER
- IR — IR SPEAKER
- TV — DIGITAL SIGN
- SCREEN — PROJECTION SCREEN
- PB — PUSH BUTTON
- LB — LOCKDOWN BUTTON
- S-IP — WALL MOUNTED IP SPEAKER
- S-IP — CEILING MOUNTED IP SPEAKER

ARCHITECTURAL SYMBOLS

- ROOM NAME, NUMBER, & APPROXIMATE AREA
- BUILDING SECTION CALLOUT
- WALL SECTION/ DETAIL SECTION
- INTERIOR ELEVATION CALLOUT
- EXTERIOR ELEVATION CALLOUT
- DETAIL/TITLE NUMBER
- NEW COLUMN GRID LINE
- EXISTING COLUMN GRID LINE
- CUT LINE
- MATCH LINE
- CENTERLINE
- ELEVATION INDICATOR
- CASEWORK NUMBER & TYPE - REFER TO CASEWORK SCHEDULE
- WINDOW NUMBER
- DOOR NUMBER
- WALL PARTITION TYPE
- D# — DEMOLITION KEYNOTE
- # — DRAWING KEYNOTE
- MARKERBOARD AND TACKBOARD TYPES
- TOILET ACCESSORY TAG
- FEC — FIRE EXTINGUISHER CABINET
- ELEVATION MARK OR COORDINATE POINT
- RD — ROOF DRAIN
- SLOPE
- VP — VENT PIPE
- EXHAUST HOOD

ARCHITECTURAL SYMBOLS

- EXISTING WALL/ CONSTRUCTION TO REMAIN
- DEMOLITION WORK
- NEW MASONRY WALL CONSTRUCTION
- NEW STUD WALL CONSTRUCTION

ARCHITECTURAL MATERIAL SYMBOLS

- EARTH/COMPACT FILL
- POROUS FILL/GRAVEL
- CONCRETE/ STRUCTURAL CONCRETE
- SAND/ ARCHITECTURAL PRECAST CONCRETE
- BRICK/BRICK PAVERS
- CONCRETE MASONRY
- STEEL
- FINISH WOODWORK
- NOMINAL CUT LUMBER, CONTINUOUS BLOCKING
- BLOCKING SHIM
- PLYWOOD/ PARTICLEBOARD
- PLASTIC/ SOLID SURFACE
- BATT INSULATION
- RIGID INSULATION
- FIREPROOFING
- GLAZING
- LATH AND PLASTER
- CARPET
- TERRAZZO
- CERAMIC TILE - SECTION
- GYPSUM WALL BOARD

A	AREA
A/C	AIR CONDITIOING COOLING
AB	ANCHOR BOLTS
ABV	ABOVE
AC	ALTERNATING CURRENT
ACT	ACOUSTICAL TILE
AD	AREA DRAIN
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
AHU	AIR HANDLER
AL	ALUMINUM
ALIGN	ALIGNMENT
ALLOW	ALLOWANCE
ALT	ALTERNATE
AMP	AMPERAGE
ANC	ANCHOR(AGE)
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASB	ASBESTOS
ASBC	ASBESTOS CONTRACTOR
ASPH	ASPHALT
AUX	AUXILIARY
AVG	AVERGAGE
AWG	AMERICAN WIRE GAGE
BCJ	BRICK CONTROL JOINT
BCU	CLOWER COIL UNIT
BD	BOARD
BEJ	BRICK EXPANSION JOINT
BEL	BELOW
BEV	BEVELED
BF	BOARD FEET
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCH MARK
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BPL	BEARING PLATE
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BS	BOTH SIDES
BTU	BRITISH THERMAL UNITS
BUR	BUILT-UP ROOF
BW	BOTH WAYS
C	CHANNEL
C-C	CENTER TO CENTER
CAB	CABINET
CAP	CAPACITY
CB	CATCH BASIN
CBF	HUNDRED BOARD FEET
CD	COLD DRAWN
CEM	CEMENT
CER	CERAMIC
CF	CUBIC FOOT
CFLG	COUNTER FLASHING
CFM	CUBIC FOOT/MINUTE
CFMF	COLD-FORMED METAL FRAMING
CFS	CUBIC FEET/SECOND
CH	CABINET HEATER
CHBD	CHALKBOARD
CI	CAST IRON
CIP	CAST-IN PLACE CONCRETE
CIR	CIRCLE
CJ	CONTROL JOINT
CK	CAULK(ING)
CLG	CEILING

CLO	CLOSET
CLR	CLEAR(ANCE)
CLS	CLOSURE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT, COMPANY
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESS(ED), (ION), (IBLE)
CON	CONNECTOR, CONNECTION
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUE
CONTR	CONTRACT(OR)
COORD	COORDINATE
CP	CLAY PIPE
CPG	COPING
CPR	COPPER
CPT	CARPET(ED)
CR	COLD ROLLED
CRS	COURSE(S)
CSMT	CASEMENT
CST	CAST STONE
CT	CERAMIC TILE
CTR	COUNTER
CU	CUBIC
CULV	CULVERT
CV	CHECK VALVE
CW	COLD WATER
CY	CUBIC YARD
DBL	DOUBLE
DC	DIRECT CURRENT
DEG	DEGREE
DEMO	DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DL	DEAD LOAD
DLV	DOOR LOUVER
DN	DOWN
DOZ	DOZEN
DP	DAMP-PROOFING
DPR	DAMPER
DR	DOOR
DS	DOWNSPOUT
DT	DRAIN TILE
DTA	DOVETAIL ANCHOR
DTL	DETAIL
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENC	ENCLOSE, ENCLOSURE
ENG	ENGINEER
ENT	ENTRANCE
EOC	EVERY OTHER COURSE
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL BOARD
EQ	EQUAL
EQP	EQUIPMENT
EST	ESTIMATE(D)
EW	EACH WAY
EWC	ELECTRICAL WATER COOL
EWF	ELECTRIC WALL FAN
EXC	EXCAVATE

EXG	EXISTING
EXH	EXHAUST
EXP	EXPOSED
EXT	EXTERIOR
FA	FIRE ALARM, FRESH AIR
FAI	FRESH AIR INTAKE
FAS	FASTENER
FB	FACE BRICK
FBD	FIBERBOARD
FBO	FINISHED BY OTHERS
FC	FAN COIL
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDR	FOLDING DOOR
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FGL	FIBERGLASS
FIG	FIGURE
FIN	FINISH(ED)
FLCO	FLOOR CLEANOUT
FLEX	FLEXIBLE
FLG	FLASHING
FLOUR	FLOURESCENT
FLR	FLOOR(ING)
FND	FOUNDATION
FO	FRAMED OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FP	FIREPROOF
FPL	FLOOR PLATE
FR	FRAME(D), (ING)
FRT	FIRE-RETARDANT
FT	FOOT (')
FTG	FOOTING
FUR	FURRED, FURRING
FURN	FURNITURE
FXT	FIXTURE
GA	GAGE, GAUGE
GALV	GALVANIZED
GAS	GAS
GB	GRAB BAR
GC	GENERAL CONTRACT(OR)
GCMU	GLAZED CMU
GD	GRADE, GRADING
GF	GRANULAR FILL
GFI	GROUND FAULT INTERRUPTER
GI	GALVANIZED IRON
GL	GLASS, GLAZING
GP	GALVANIZED PIPE
GPM	GALLONS PER MINUTE
GSS	GALVANIZED STEEL SHEET
GST	GLAZED STRUCTURAL TILE
GVL	GRAVEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HB	HOSE BIB
HC	HVAC CONTRACTOR
HCP	HANDICAP
HD	HEAVY DUTY
HDJT	HEAD JOINT
HDR	HEADER
HDW	HARDWARE
HH	HANDHOLE
HI	HEIGHT OF INSTRUMENT
HK	HOOK(S)
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HORSEPOWER

HR	HANDRAIL
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HTX	HEAT EXCHANGER
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HW	HOT WATER
HWH	HOT WATER HEATER
HYD	HYDRANT
ID	INSIDE DIAMETER
IN	INCH (")
INCIN	INCINERATOR
INCL	INCLUDE(D), INCLUDING
INFO	INFOMRATION
INS	INSULATE(D)
INT	INTERIOR
INV	INVERT (ELEVATION)
IP	IRON PIPE / IRON PIPE SIZE
JC	JANITORS CLOSET
JF	JOINT FILLER
JNT	JOINT
JST	JOIST
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE
L	LENGTH
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE(D)
LAT	LATITUDE
LAV	LAVATORY
LBL	LABEL
LF	LINEAR FOOT
LH	LEFT HAND
LIC	LICENSE(D)
LIN	LINEAR
LINO	LINOLEUM
LIQ	LIQUID
LKR	LOCKER
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMS	MINESTONE
LONG	LONGITUDE, LONGITUDINAL
LP	LIGHT PANEL
LPT	LOW POINT
LRG	LARGE
LT	LIGHT
LTL	LINTEL
LVR	LOUVER
LVT	LUXURY VINYL TILE
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBF	1000 BOARD FEET
MBR	MEMBER
MC	MECHANICAL CONTRACT(OR)
MECH	MECHANICAL
MED	MEDIUM
MFD	MANUFACTURED
MFG	MANUFACTURING
MFR	MANUFACTURE(R)
MGR	MANAGER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MKBD	MARKERBOARD
MLD	MOULDING, MOLDING
MMB	MEMBRANE

MNT	MOUNT(ED), (ING)
MO	MASONRY OPENING
MOD	MODULAR
MON	MONUMENT
MOV	MOVABLE
MRB	MARBLE
MRD	METAL ROOF DECKING
MTFR	METAL FURRING
MTL	METAL
MULL	MULLION
MULT	MULTIPLE
MWK	MILLWORK
N/F	NOW OR FORMERLY
NA	NOT AVAILABLE/APPLICABLE
NAT	NATURAL
NEC	NATIONAL ELECTRIC CODE
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NL	NAILABLE
NMT	NON-METALLIC
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NS	NEAR SIDE
NTS	NOT TO SCALE
O/H	OVERHEAD
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER(S)
OD	OUTSIDE DIAMETER
OFF	OFFICE
OHG	OVERHANG
OPG	OPENING
OPH	OPPOSITE HAND
OPP	OPPOSITE
OPS	OPPOSITE SURFACE
ORIG	ORIGINAL
OWSJ	OPEN-WEB STEEL JOIST
PA	PUBLIC ADDRESS
PAR	PARALLEL
PB	PANIC BAR
PBD	PARTICLE BOARD
PC	PLUMBING CONTRACT(OR)
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PE	PORCELAIN ENAMEL
PEN	PENETRATION
PERF	PERFORATE(D)
PERI	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PFB	PREFABRICATE(D)
PFN	PREFINISH(ED)
PG	PLATE GLASS
PKG	PARKING
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAST	PLASTER
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLS	PLASTIC
PNL	PANEL
PNT	PAINT(ED)
POB	POINT OF BEGINNING
PR	PAIR
PRF	PREFORMED
PROJ	PROJECT
PRT	PRESERVATIVE TREATED
PSC	PRE-STRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTD	PAPER TOWEL DISPENSER

PTM	PATCH TO MATCH
PTN	PARTITION
PTR	PAPER TOWEL RECEPTOR
PV	PAVE(D), PAVING
PVC	POLYVINYL CHLORIDE
PVCP	PVC PIPE
PVMT	PAVEMENT
PWD	PLYWOOD
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY
R	RISE(R)
RA	RETURN AIR
RAD	RADIUS
RBR	RUBBER
RBT	RABBET
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE, REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR, REFRIGERATED
REG	REGISTER
REINF	REINFORCE(D), REINFORCING
REQ	REQUIRED
RES	RESILIENT
RET	RETURN
REV	REVISED, REVISION(S)
RFG	ROOFING
RFH	ROOF HATCH
RFL	REFLECT(ED), (IVE), (OR)
RH	RIGHT HAND
RIM	RIM (ELEVATION)
RL	RAIL(ING)
RM	ROOM
RMV	REMOVE
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RP	RADIENT PANEL
RPM	REVOLUTIONS PER MINUTE
RS	REINFORCING STEEL
RT	RUBBER TILE
RTE	ROUTE
RWC	RAINWATER CONDUCTOR
SAN	SANITAR
SB	SPLASH BLOCK
SC	SOLIDCORE
SCH	SCHEDULE
SCN	SCREEN
SD	STORM DRAIN
SDG	SIDING
SEC	SECTION
SF	SQUARE FOOT
SFGL	SAFETY GLASS
SGT	STRUCTURAL GLAZED TILE
SH	SHELF, SHELVING
SHT	SHEET
SHTG	SHEATHING
SHWR	SHOWER
SIM	SIMILAR
SKL	SKYLIGHT
SL	SLEEVE
SNT	SEALANT
SP	SOUND PROOF
SPC	SPACER
SPEC	SPECIFICATION(S)
SPKR	SPEAKER
SPL	SPECIAL
SQ	SQUARE
SS	STAINLESS STEEL
SSK	SERVICE SINK
STA	STATION
STC	SOUND TRANSMISSION COEFFICIENT

STD	STANDARD
STL	STEEL
STN	STAIN(ED)
STOR	STORAGE
STR	STRUCTURAL
SUBSTR	SUBSTRUCTURE
SUPT	SUPERINTENDENT
SURF	SURFACE
SUSP	SUSPENDED
SW	SWITCH
SY	SQUARE YARD
SYS	SYSTEM
T	TREAD
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TAB	TABULATE
TC	TERRA COTTA
TEL	TELEPHONE
TEMP	TEMPORARY, TEMPERATURE
TF	TRANSPARENT FINISH
THK	THICK(NESS)
THR	THRESHOLD
TKBD	TACKBOARD
TKS	TACKSTRIP
TMBR	TERMINATION BAR
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOPO	TOPOGRAPHIC
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPTN	TOILET PARTITION
TR	TRANSON
TRM	TOILET ROOM
TV	TELEVISION, CABLE
TWP	TOWNSHIP
TYP	TYPICAL
TZ	TERRAZZO
U/G	UNDERGROUND
UC	UNDERCUT
UN	UNIT HEATER
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UNP	UNPAINTED
UR	URINAL
UV	UNIT VENTILATOR
V	VOLT
VB	VINYL/RUBBER BASE
VCP	VITRIFIED CLAY PIPE
VCT	VINYL COMPOSITION TILE
VENT	VENTILATOR
VERT	VERTICAL
VEST	VESTIBULE
VF	VINYL FABIRC
VIF	VERIFY IN FIELD
VIN	VINYL
VJ	V-JOINT(ED)
VOL	VOLUME
VWC	VINYL WALL COVER
W	WIDE, WIDTH
W	WITH
W/O	WITHOUT
WB	WOODBASE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WD	WOOD
WDW	WINDOW
WF	WALL FIN RADIATION
WG	WIRE(ED) GLASS

WH	WALL HYDRANT
WHB	WHEEL BUMPER
WI	WROUGHT IRON
WM	WIRE MESH
WP	WATERPROOF(ED), (ING)
WR	WATER REPELLENT
WS	WATERSTOP
WSCT	WAINSCOT
WT	WEIGHT
WTW	WALL TO WALL
WV	WET VENT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
XSECT	CROSS SECTION
YD	YARD
YR	YEAR

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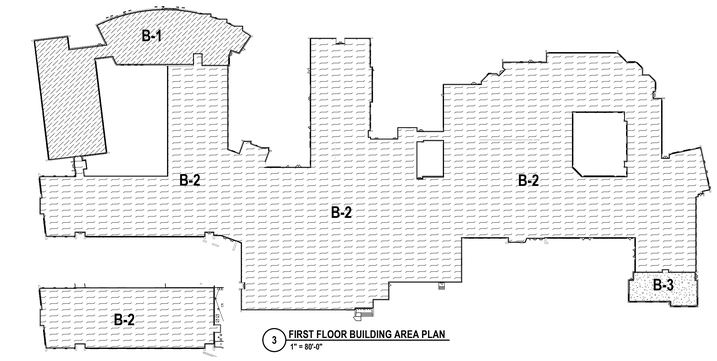
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SYMBOLS AND ABBREVIATIONS

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-G1.1

PROJECT NO: 2012-254



3 FIRST FLOOR BUILDING AREA PLAN
1" = 80'-0"

4 SECOND FLOOR BUILDING AREA PLAN
1" = 80'-0"

BUILDING AREAS

AREA DESIGNATION	ACTUAL AREA
BUILDING AREA B-1 NON SPRINKLERED	22,645 SF
BUILDING AREA B-2 NON SPRINKLERED	180,112 SF
BUILDING AREA B-3 NON SPRINKLERED	3,491 SF
TOTAL	206,248 SF

FIRE AREAS

AREA DESIGNATION	ACTUAL AREA
FIRE AREA A-1 NON SPRINKLERED	22,645 SF
FIRE AREA A-2 NON SPRINKLERED	52,257 SF
FIRE AREA A-3 NON SPRINKLERED	112,835 SF
FIRE AREA A-4 NON SPRINKLERED	1,680 SF
FIRE AREA A-5 NON SPRINKLERED	3,491 SF
FIRE AREA A-6 NON SPRINKLERED	2,956 SF
FIRE AREA A-7 NON SPRINKLERED	10,384 SF

PLUMBING FIXTURE COUNT

REQUIRED COUNT IN EDUCATION FACILITY SPACES:

	REQUIRED FIXTURES		PROVIDED	
GENDER	GIRLS	BOYS	GIRLS	BOYS
WATER CLOSETS	36	36	45	34
LAVATORIES	36	36	43	45
URINALS	-	-	-	20

GRAPHIC KEY - CODE COMPLIANCE

- 1 HOUR FIRE PARTITION (ALL CORRIDOR WALLS)
- 1 HR FIRE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR FIRE WALL

CODE COMPLIANCE INFORMATION

MUST COMPLY WITH NEW YORK STATE BUILDING CODE 2025 AND
NEW YORK MANUAL OF PLANNING STANDARDS 2022

GENERAL NOTES:
(APPLIES TO ALL CONTRACTORS U.N.O)

A. ALL NEW CORRIDOR, STAIRWELL, MECHANICAL ROOM AND SHAFT WALLS ARE TO BE PROVIDED 1 HOUR FIRE SEPERATION
B. SQUARE FOOT AREA NUMBERS SHALL NOT BE USED IN CALCULATING MATERIAL QUANTITIES. CONTRACTOR IS RESPONSIBLE FOR ALL SQUARE FOOTAGE CALCULATIONS
C. PROVIDE FIRESTOPPING AT ALL NEW AND EXISTING OPENINGS AND PENETRATIONS THROUGH ALL FIRE RATED WALLS TO MATCH UL ASSEMBLY OF WALL
D. INDICATED RESCUE WINDOWS (R.W.) SHALL CONFORM TO NYS EDUCATION DEPARTMENT PLANNING STANDARD S104-7

GENERAL NOTES:
(APPLIES TO GENERAL TRADES CONTRACTOR)

1. PROVIDE SIGNAGE IDENTIFYING ALL EXIT PATHS DURING CONSTRUCTION, (NEW, EXISTING AND TEMPORARY)
2. MAINTAIN ALL CONSTRUCTION BARRIERS UNTIL NEW OR RENOVATED WORK IS COMPLETE AND NEW EXIT WAYS ARE APPROVED FOR USE
3. MAINTAIN EXISTING DOORS UNTIL NEW OR TEMPORARY EXITS ARE IN PLACE
4. PROVIDE TEMPORARY PARTITIONS WHERE REQUIRED TO SEPERATE WORK AREAS FROM OWNER OCCUPIED AREAS. LOCATIONS OF TEMPORARY PARTITIONS ARE SUBJECT TO APPROVAL BY ARCHITECT. MEANS OF EGRESS SHALL BE MAINTAINED.
5. PROVIDE TEMPORARY WALL CONSTRUCTION CONSISTING OF 3 5/8" METAL STUD W/ 5/8" TYPE "X" GWB BOTH SIDES. PARTITION TO BE FULLY EXTENDED TO DECK ABOVE
6. PROVIDE TEMPORARY "CONSTRUCTION ZONE, RESTRICTED ACCESS" SIGNAGE IN ALL AREAS OF CONSTRUCTION

BUILDING INFORMATION

GENERAL BUILDING INFORMATION:

ORIGINAL YEAR BUILT: 1962
ADDITIONS: 1970, 1974, 1995
EXISTING CONSTRUCTION TYPE: IIB
OCCUPANCY CLASSIFICATION: E - EDUCATIONAL
NUMBER OF STORIES: 2
NUMBER OF SIDES ACCESSIBLE: 4
SPRINKLERED: NO
ALLOWABLE BUILDING AREA: 14,500 S.F. PER FLOOR [TABLE 506.2]*
BUILDING PERIMETER: 1578' [506]*
BUILDING FRONTAGE: 1387' @ 30'W [506]*

SQUARE FOOTAGE & OCCUPANT LOAD: (EXISTING - NONCONFORMING)

BASEMENT(N/A):	0 SF
FIRST FLOOR:	188,875 SF
SECOND FLOOR:	17,373 SF
GROSS SQ. FT. OF BUILDING:	206,248 SF
OCCUPANT LOAD BASEMENT(N/A):	0
OCCUPANT LOAD FIRST FLOOR:	3,062
OCCUPANT LOAD SECOND FLOOR:	449
TOTAL OCCUPANT LOAD:	3,561

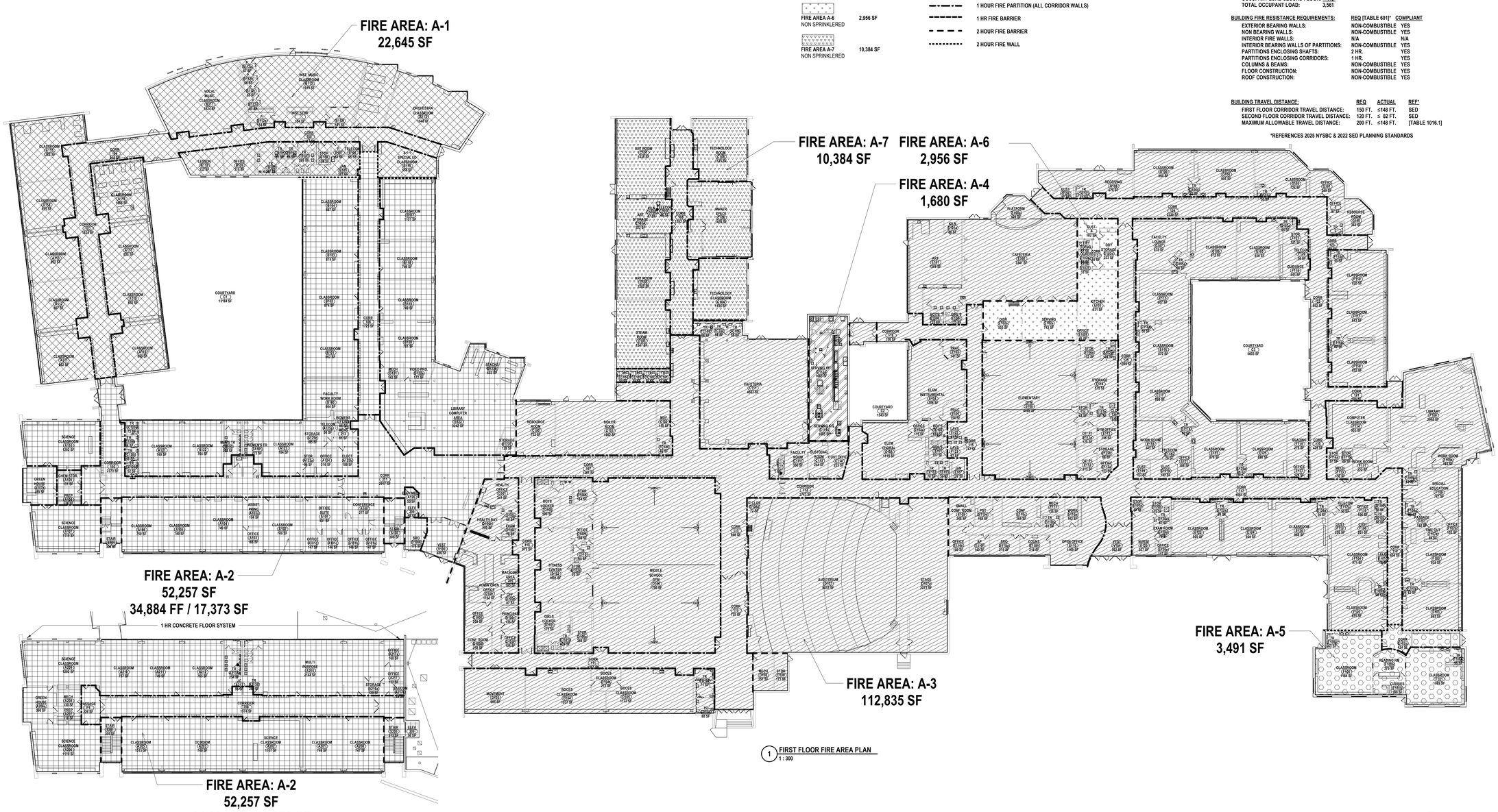
BUILDING FIRE RESISTANCE REQUIREMENTS:

	REQ [TABLE 601]*	COMPLIANT
EXTERIOR BEARING WALLS:	NON-COMBUSTIBLE	YES
NON BEARING WALLS:	NON-COMBUSTIBLE	YES
INTERIOR FIRE WALLS:	N/A	N/A
INTERIOR BEARING WALLS OF PARTITIONS:	NON-COMBUSTIBLE	YES
PARTITIONS ENCLOSING SHAFTS:	2 HR.	YES
PARTITIONS ENCLOSING CORRIDORS:	1 HR.	YES
COLUMNS & BEAMS:	NON-COMBUSTIBLE	YES
FLOOR CONSTRUCTION:	NON-COMBUSTIBLE	YES
ROOF CONSTRUCTION:	NON-COMBUSTIBLE	YES

BUILDING TRAVEL DISTANCE:

	REQ	ACTUAL	REF*
FIRST FLOOR CORRIDOR TRAVEL DISTANCE:	150 FT.	≤148 FT.	SED
SECOND FLOOR CORRIDOR TRAVEL DISTANCE:	120 FT.	≤ 82 FT.	SED
MAXIMUM ALLOWABLE TRAVEL DISTANCE:	200 FT.	≤148 FT.	[TABLE 1016.1]

*REFERENCES 2025 NYSBC & 2022 SED PLANNING STANDARDS



1 FIRST FLOOR FIRE AREA PLAN
1 : 300

2 SECOND FLOOR FIRE AREA PLAN
1 : 300

N

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CODE COMPLIANCE - FIRE SAFETY PLAN
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST. ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-G1.2

PROJECT NO: 2012-254

GRAPHIC KEY - CODE COMPLIANCE

R.W.	RESCUE WINDOW + LABEL U.N.O.
♿	HANDICAP ACCESSIBLE
F.E.C.	FIRE EXTINGUISHER CABINET
F.E.C.	NEW FIRE EXTINGUISHER & CABINET
D.F.	DRINKING FOUNTAIN
	PATH OF EGRESS
54 (360) 65'	EXIT ACCESS TRAVEL DISTANCE. DENOTES THE MAXIMUM DISTANCE TRAVELED TO A BUILDING EXIT OR STAIRWELL ENCLOSURE IN EACH DIRECTION
142'	DENOTES THE TOTAL DISTANCE TRAVELED TO EXIT
26	OCCUPANT LOAD (MAXIMUM ALLOWABLE OCCUPANT LOAD, ACTUAL OCCUPANCY BASED ON HOME ROOM & STAFF OCCUPANCY)
6	EXIT DOOR OCCUPANT CAPACITY EXIT WIDTH @ 0.2"/OCC. = OCCUPANT CAPACITY STAIR WIDTH @ 0.3"/OCC. = OCCUPANT CAPACITY
1,564* 1,564**	*CUMULATIVE OCCUPANT LOAD **MAX EGRESS CAPACITY
	LEVEL 1 ALTERATIONS: 134,642 SQFT.
	LEVEL 2 RENOVATIONS: 16,050 SQFT.

1 LIFE AND SAFETY FIRST FLOOR PLAN - SOUTH
1/16" = 1'-0"

2 SECOND FLOOR LIFE AND SAFETY PLAN
1/16" = 1'-0"

N

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CODE COMPLIANCE - LIFE SAFETY PLAN - SOUTH

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-003-027, 07-06-00-01-0-003-003

BR-G1.3

PROJECT NO: 2012-254

GRAPHIC KEY - CODE COMPLIANCE

R.W.	RESCUE WINDOW + LABEL U.N.O.
♿	HANDICAP ACCESSIBLE
F.E.C.	FIRE EXTINGUISHER CABINET
F.E.C.	NEW FIRE EXTINGUISHER & CABINET
D.F.	DRINKING FOUNTAIN
	PATH OF EGRESS
61' (300)	EXIT ACCESS TRAVEL DISTANCE. DENOTES THE MAXIMUM DISTANCE TRAVELED TO A BUILDING EXIT OR STAIRWELL ENCLOSURE IN EACH DIRECTION
10'-0"	DENOTES THE TOTAL DISTANCE TRAVELED TO EXIT
26	OCCUPANT LOAD (MAXIMUM ALLOWABLE OCCUPANT LOAD, ACTUAL OCCUPANCY BASED ON HOME ROOM & STAFF OCCUPANCY)
1	EXIT DOOR OCCUPANT CAPACITY EXIT WIDTH @ 0.2"/OCC. = OCCUPANT CAPACITY STAIR WIDTH @ 0.3"/OCC. = OCCUPANT CAPACITY
(300)	*CUMULATIVE OCCUPANT LOAD **MAX EGRESS CAPACITY
	LEVEL 1 ALTERATIONS: 134,642 SQFT.
	LEVEL 2 RENOVATIONS: 16,050 SQFT.

1 LIFE AND SAFETY FIRST FLOOR PLAN - OVERRALL - NORTH
1/16" = 1'-0"

N

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CODE COMPLIANCE - LIFE SAFETY PLAN - NORTH

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

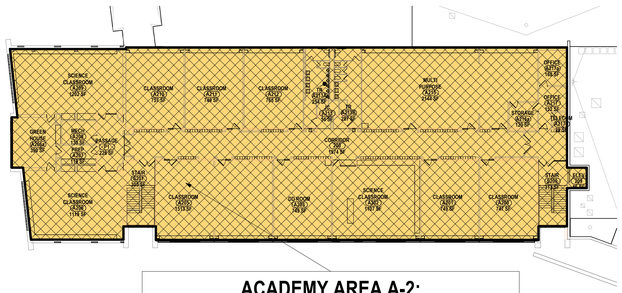
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SED#: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-G1.4

PROJECT NO: 2012-254



ACADEMY AREA A-2:
RENOVATIONS MAY 31 - AUGUST 6, 2027
SWING SPACE: APRIL 5 - MAY 28, 2027,
SEPT 13, 2027 - JUNE 2028

2 SECOND FLOOR CONSTRUCTION SCHEDULE PLAN
1 : 300

NOTE: REFER TO CONSTRUCTION SPECIFICATION SECTION 01 32 16 - CONSTRUCTION PROGRESS SCHEDULE FOR ADDITIONAL DETAIL

ALL SITEWORK (EXCEPT PLAYGROUNDS) SHALL BE COMPLETED JULY 27 - SEPTEMBER 2, 20227
PLAYGROUNDS SHALL BE COMPLETED JUNE 26 - AUGUST 25, 2028

ALL ROOF RELATED WORK INCLUDING STRUCTURAL STEEL MODIFICATIONS, NEW MECHANICAL PLATFORM CONSTRUCTION & PLACEMENT OF NEW HVAC UNITS SHALL BE COMPLETED JULY 27 - SEPTEMBER 2, 20227

ACADEMY AREA A1:
APRIL 5 - MAY 28, 2027

ACADEMY AREA B-1:
MAY 1 - JUNE 30, 2028

ACADEMY AREA B-2:
SEPT 13 - NOV 26, 2027

ACADEMY AREA C / BOILER RM: JUNE 22 - AUGUST 30, 2027

ELEM AREAS F-2 & G:
JUNE 26-AUGUST 25, 2028

ELEM AREA E-1: JUNE 26 - AUGUST 25, 2028

ELEM AREA E-2:
JULY 27 - SEPT 2, 2027

ACADEMY AREA A-2:
NOV 29, 2027 - FEB 4, 2028

ACADEMY AREA D-1 / MAIN LOBBY & ELEVATOR:
JUNE 26 - AUGUST 18, 2028

ACADEMY AREA D-1:
FEB 7 - MARCH 17, 2028

AUDITORIUM:
FEB 21 - SEPT 2, 2028

ELEM AREA F-1:
JUNE 28 - SEP 2, 2027

1 FIRST FLOOR CONSTRUCTION SCHEDULE PLAN
1 : 300

N

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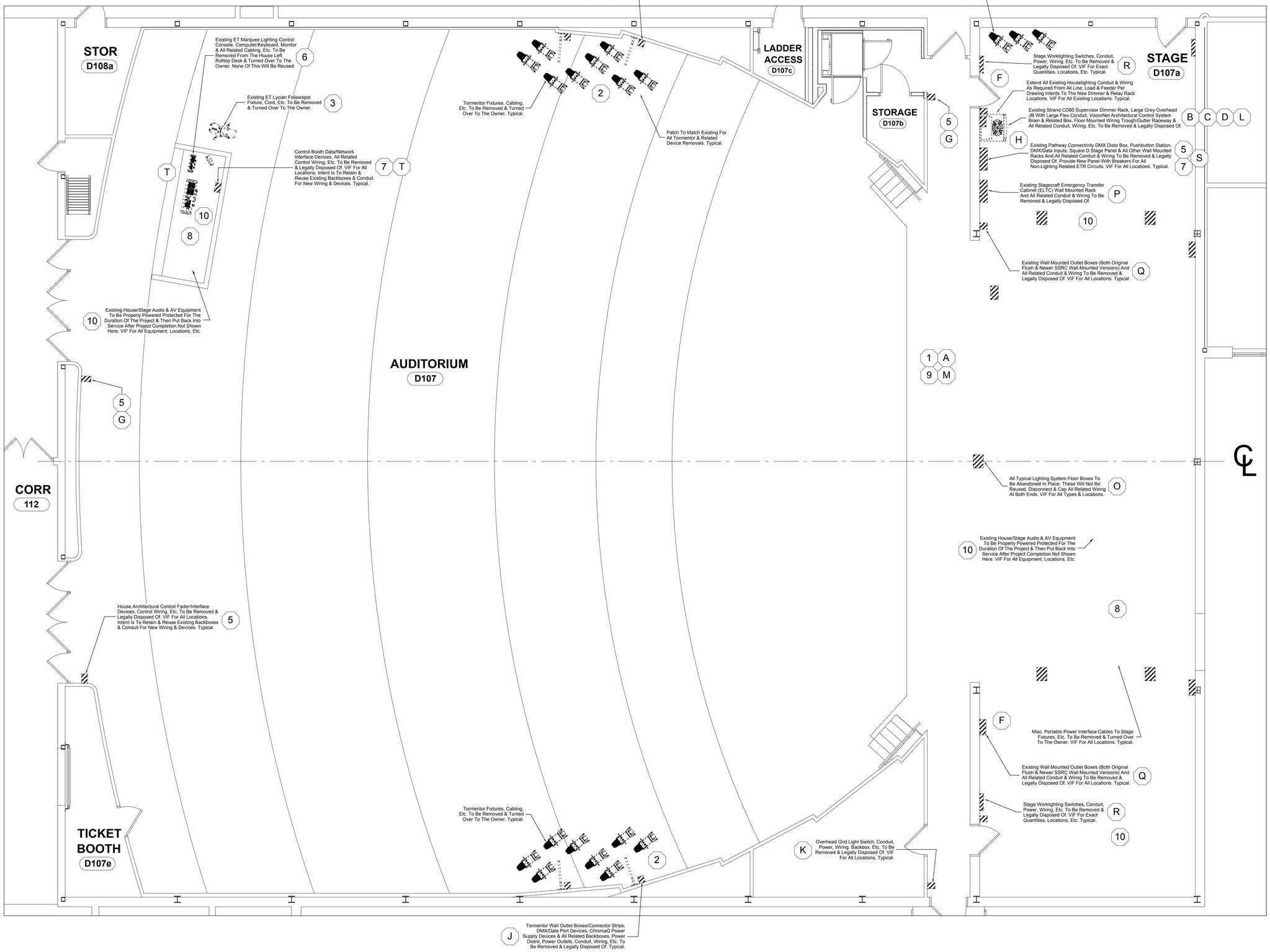
CONSTRUCTION PHASING PLANS
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

BR-G1.5

PROJECT NO: 2012-254

SED #: 07-06-00-01-0-034-027; 07-06-00-01-0-034-028

REFER TO THE TL4.1 SERIES DRAWINGS FOR ALL LIGHTING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TL SERIES DRAWINGS.



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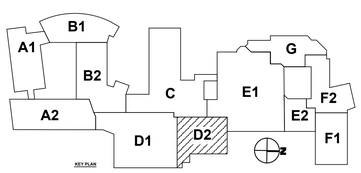
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THEATRICAL LIGHTING SYSTEM LOWER LEVEL REMOVAL PLAN-AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

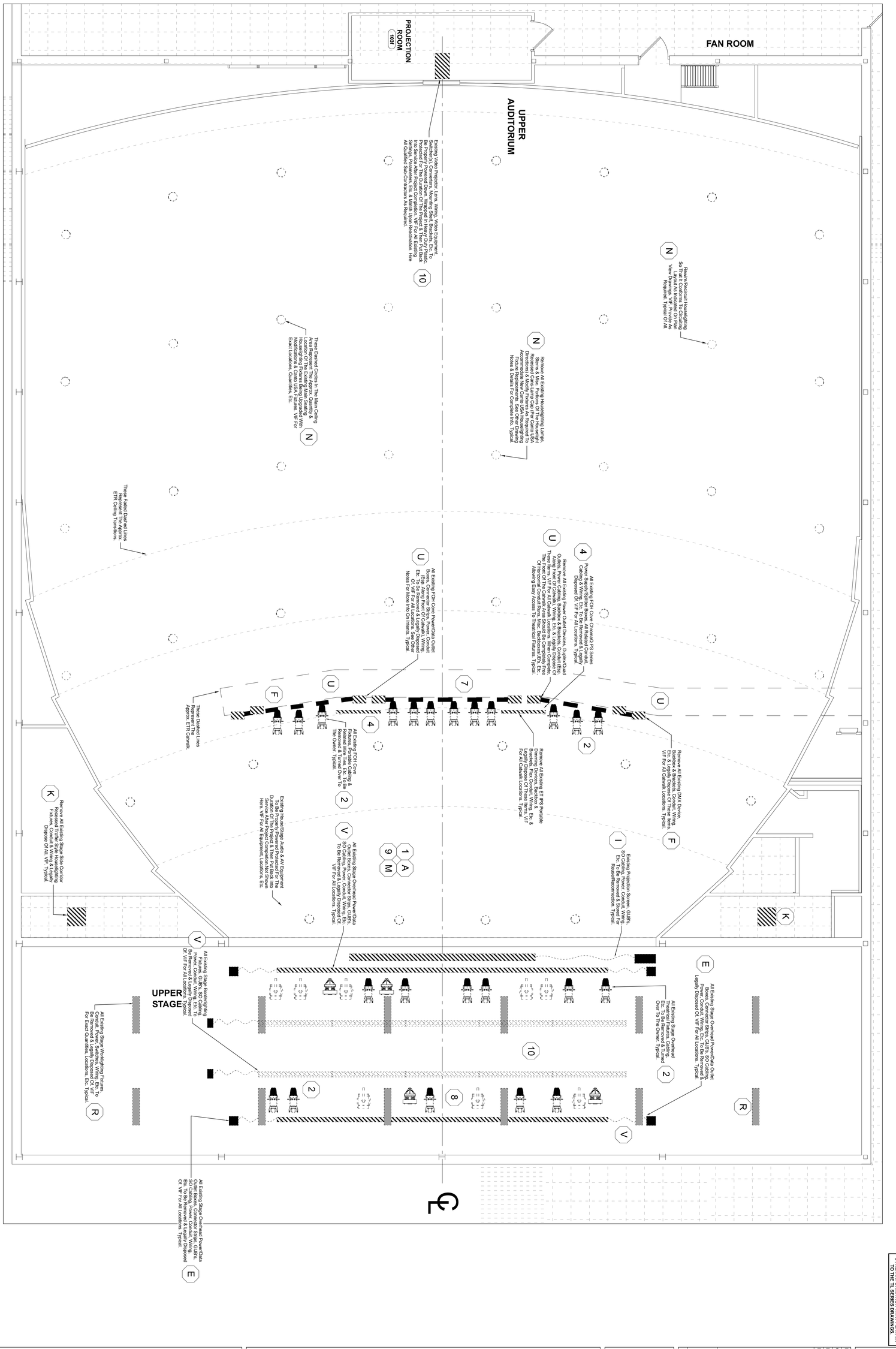
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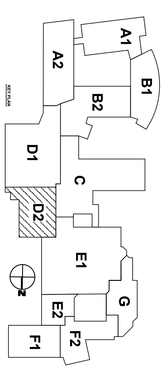


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BR-TL0.1

PROJECT NO: 2012-254





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REFER TO THE TL4.1 SERIES DRAWINGS FOR LIGHTING RELATED REMOVAL NOTES, DRAWING KEYS, SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER GRAPHICAL INFORMATION PERTAINING TO THE TL SERIES DRAWINGS

PROJECT NO: 2012-24	BR-TL0.2

THEATRICAL LIGHTING SYSTEM UPPER LEVEL REMOVAL PLAN-AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

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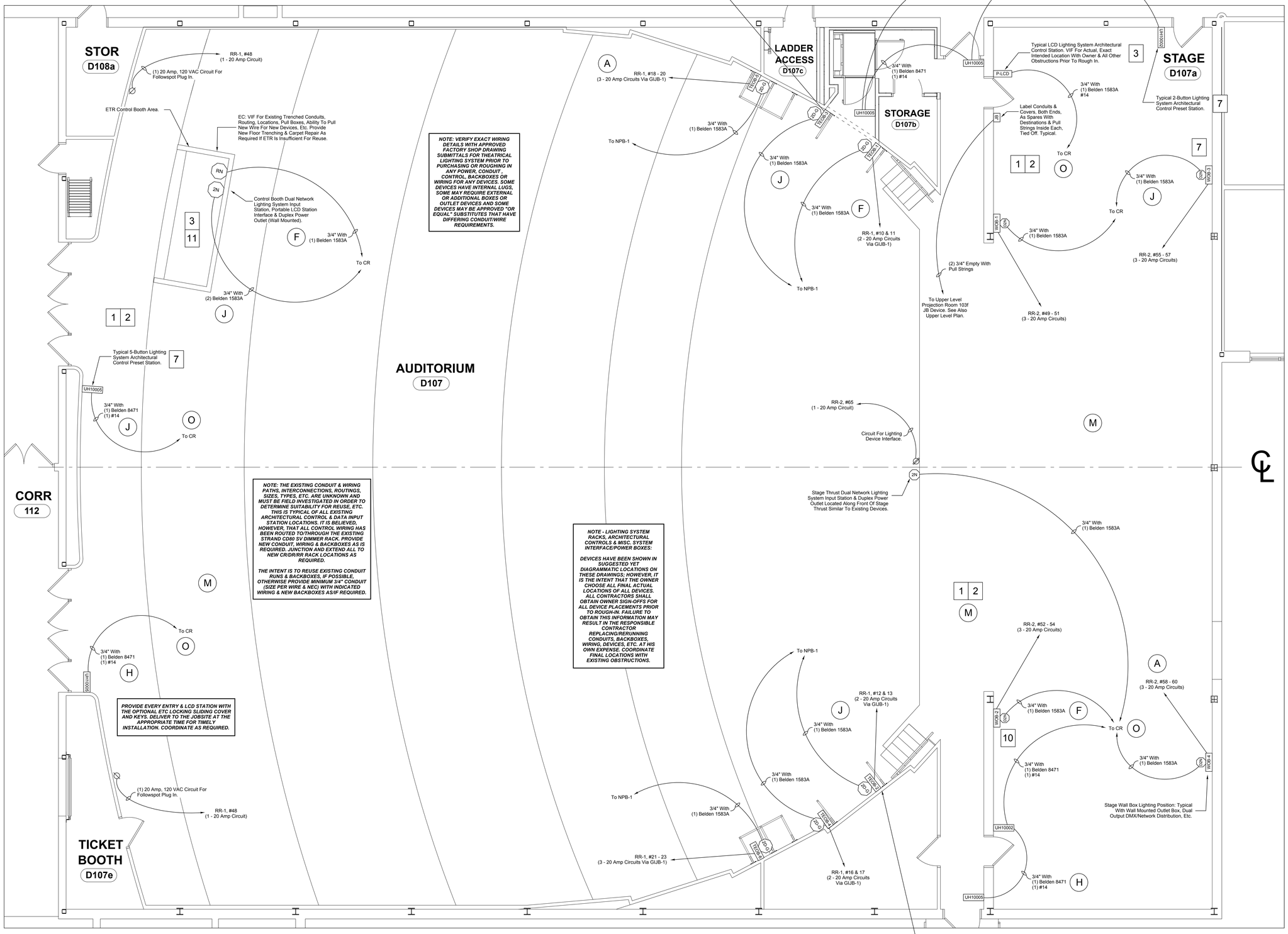
DESIGNS INCORPORATED CONSULTANTS IN THEATRICAL DESIGN
1786 PENFIELD ROAD • PENFIELD, NY 14526
PHONE: (585) 248-1750 • FAX: (585) 340-1140

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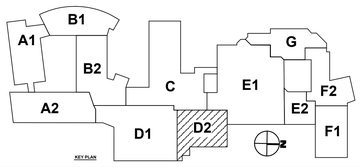
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1 LOWER LEVEL LIGHTING CONTROL PLAN

SCALE: 1/4" = 1'



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THEATRICAL LIGHTING SYSTEM LOWER LEVEL CONTROL PLAN-AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

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NOTE: VERIFY EXACT WIRING DETAILS WITH APPROVED FACTORY SHOP DRAWING SUBMITTALS FOR THEATRICAL LIGHTING SYSTEM PRIOR TO PURCHASING OR ROUGHING IN ANY POWER, CONDUIT , CONTROL, BACKBOXES OR WIRING FOR ANY DEVICES. SOME DEVICES HAVE INTERNAL LUGS, SOME MAY REQUIRE EXTERNAL OR ADDITIONAL BOXES OR OUTLET DEVICES AND SOME DEVICES MAY BE APPROVED "OR EQUAL" SUBSTITUTES THAT HAVE DIFFERING CONDUIT/WIRE REQUIREMENTS.

NOTE - LIGHTING SYSTEM RACKS, ARCHITECTURAL CONTROLS & MISC. SYSTEM INTERFACE/POWER BOXES:

DEVICES HAVE BEEN SHOWN IN SUGGESTED YET DIAGRAMMATIC LOCATIONS ON THESE DRAWINGS; HOWEVER, IT IS THE INTENT THAT THE OWNER CHOOSE ALL FINAL ACTUAL LOCATIONS OF ALL DEVICES. ALL CONTRACTORS SHALL OBTAIN OWNER SIGN-OFFS FOR ALL DEVICE PLACEMENTS PRIOR TO ROUGH-IN. FAILURE TO OBTAIN THIS INFORMATION MAY RESULT IN THE RESPONSIBLE CONTRACTOR REPLACING/RERUNNING CONDUITS, BACKBOXES, WIRING, DEVICES, ETC. AT HIS OWN EXPENSE. COORDINATE FINAL LOCATIONS WITH EXISTING OBSTRUCTIONS.

NOTE: THE EXISTING CONDUIT & WIRING PATHS, INTERCONNECTIONS, ROUTINGS, SIZES, TYPES, ETC. ARE UNKNOWN AND MUST BE FIELD INVESTIGATED IN ORDER TO DETERMINE SUITABILITY FOR REUSE, ETC. THIS IS TYPICAL OF ALL EXISTING ARCHITECTURAL CONTROL & DATA INPUT STATION LOCATIONS. IT IS BELIEVED, HOWEVER, THAT ALL CONTROL WIRING HAS BEEN ROUTED TO/THROUGH THE EXISTING STRAND CD80 SV DIMMER RACK. PROVIDE NEW CONDUIT, WIRING & BACKBOXES AS IS REQUIRED. JUNCTION AND EXTEND ALL TO NEW CR/DR/RR RACK LOCATIONS AS REQUIRED.

THE INTENT IS TO REUSE EXISTING CONDUIT RUNS & BACKBOXES, IF POSSIBLE. OTHERWISE PROVIDE MINIMUM 3/4" CONDUIT (SIZE PER WIRE & NEC) WITH INDICATED WIRING & NEW BACKBOXES AS/IF REQUIRED.

FAN ROOM

UPPER AUDITORIUM

PROJECTION ROOM 103f

UPPER STAGE

CR RACK AC POWER: (2) - 120 VAC, 20 Amp Circuits.

RR-1 RACK AC POWER: (1) - 5 Wire 3 Phase, 200 A, 208 VAC Feed.

RR-2 RACK AC POWER: (1) - 5 Wire 3 Phase, 100 A, 208 VAC Feed.

ELTS2 AC POWER: (1) - 5 Wire 3 Phase, 60 A, 208 VAC Feed.

DR-1 RACK AC POWER: (1) - 5 Wire 3 Phase, 60 A, 208 VAC Feed.

(1) Circuit - 20 A, 1 Phase, 120 VAC Mount Within DEBC: RR-2, #64

See Lower Level Plan For Conduit

To Lower Level Stage Right Proscenium Wall Device. See Also Lower Level Plan.

Label Conduits & Covers, Both Ends, As Spares With Destinations & Pull Strings Inside Each, Tied Off. Typical.

Theatrical Lighting System Relay Controlled Power Panel. Typical.

Theatrical Lighting System Communications Rack (Houses The Architectural Control System, Misc. Power Supplies, Network Switch(es), Etc.). See Flow Diagrams & Details For Additional Info Regarding Conduit & Wiring Interconnections Required Between All Lighting System Devices. Not All Shown Due To Sheet Congestion.

Breaker Box/ Disconnect

Theatrical Lighting System UL1008 Lighting Transfer Switch.

NOTE: Work Closely With Owner To Create Wall Space In This Room In Order To Accommodate All New Gear. This Will Require The Relocation Of Existing Shelving, Tables, Desks, Boxes, Etc.

Theatrical Lighting System Dimmer Power Panel. Typical.

Theatrical Lighting System EM Lighting System Interfaces.

Sensor 3 Battery Pack

These Dashed Lines Represent The Approx. Catwalk Location. VIF. Typical.

To CR

RR-1, #1 - 3 (3 - 20 Amp Circuits Via GUB-1)

Catwalk/Cove Lighting Position: Typical With Angle Mounted Outlet Box(es). Dual Output DMX/Network Distribution, Etc.

2" With (10) Belden 1583A

3/4" Flex Conduit With (1) Belden 1583A

To NPB-1

Lighting System Network Pull Box.

3/4" With (1) Belden 1583A

Typical Catwalk/Cove Grid Iron Junction Box, DMX/Network Distribution Drop Box, Related Unistrut Supports, Etc. Mounted To Catwalk Uprights Approx. 72" AFF. Shown Out From Catwalk For Visual Clarity.

3/4" With (1) Belden 1583A

To NPB-1

WAP

NPB-1

GUB-1

Mounted To Ceiling. Mount For Optimum Reception.

Lighting System Wireless Access Point.

RR-1, #4 - 6 (3 - 20 Amp Circuits Via GUB-1)

3/4" Flex Conduit With (1) Belden 1583A

RR-1, #1 - 23; DR-1, #1 - 7 (30 - 20 Amp Circuits)

3/4" With (2) Belden 1583A

RR-1, #7 - 9 (3 - 20 Amp Circuits Via GUB-1)

Typical Catwalk Electric Outlet Box With Dual Port DMX Gateway. Typical.

3/4" Flex Conduit With (1) Belden 1583A

Flexible Black Type SO Multicable To Connector Strips. SO Cables Sized For Circuits Indicated With Individual Hots/Neutrals & Quantity Of Grounds Per NEC. Typical Of All Stage Electrics. Use AWG SO Cable Wiring Per NEC & Voltage Drop, Full Amp Rating, Run Distance, Etc. VIF. Typical.

GUB's/ND's Have Very Specific Mounting Requirements (An Ideal Location Would Be Directly Over Or Just Slightly Offstage Of The Side Masking Leg Set Track Below-See TL Details & TR Elevation Drawings For More Complete Intent Info). See Detail Drawings For Exact Info. Do Not Mount In Alternate Ways, Orientations, Locations, Etc. VIF. Typical.

These Curved Dashed Lines Represent The Approx. Ceiling Transition Locations. VIF. Typical.

These Dashed Lines Represent The Approx. Ceiling Grid Locations. VIF. Typical.

Approx. 15'-0" VIF With TC

42'-0"

First Stage Electric Connector Strip

Second Stage Electric Connector Strip

Third Stage Electric Connector Strip

Fourth Stage Electric Connector Strip

Stage Electric Lighting Position: Typical With Connector Strip (Duplicated Circuits), Dual Output DMX/Network Distribution, Etc.

Stage Electric SO Cables To Swag To The Stage Left Side Of Stage. Typical.

2'-8" 5'-0" 6'-0" 2'-6" 3'-5"

GUB-2 GUB-3 GUB-4 GUB-5 ND

Ultra-Flexible Black Data Cabling Routed Along SO Cable To Connector Strips & Top Hat. Black Velcro Wrap To SO Cable. Typical.

Hard Conduit With Control Cabling Runs Or Multiple Individual Wire Runs By EC From RR-X/DR-X Racks To GUB's With Individual Neutrals (Quantity Of Grounds Per NEC). Route All Conduits In As Direct A Path As Is Physically Possible. Typical.

RR-1, #24 - 29 (6 - 20 Amp Circuits)

RR-1, #30 - 35 (6 - 20 Amp Circuits)

RR-1, #36 - 41 (6 - 20 Amp Circuits)

RR-1, #42 - 47 (6 - 20 Amp Circuits)

NPB-2

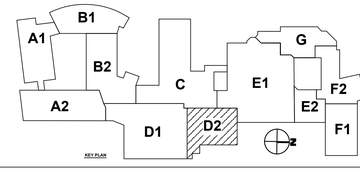
1" With (4) Belden 1583A

Each To Be 3/4" With (1) Belden 1583A

To CR

1 UPPER LEVEL LIGHTING CONTROL PLAN

SCALE: 1/4" = 1'



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THEATRICAL LIGHTING SYSTEM UPPER LEVEL CONTROL PLAN-AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TL1.2

PROJECT NO: 2012-254

REFER TO THE TL4.1 SERIES DRAWINGS FOR ALL LIGHTING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TL SERIES DRAWINGS.

KEY TO FIXTURE SYMBOLS:

Symbol	Fixture & Accessories	Light Source
CSPVZ	ETC ColorSource Par V Zoom RGBI-L LED Fixture With Wireless Multiverse & NFC Configuration, Edison Connector & 17°- 41° Manual Zoom. Set Up Each Fixture In 8-Channel Direct DMX Operating Mode. Provide With All Waterfall Power & Individual DMX Interconnect Cabling, Hanging Yoke With A C-Clamp For Each Fixture & All Misc. Hardware Needed In Order To Assemble & Interconnect These Fixtures.	(34) Lumileds Luxeon C LED Emitters (Included With Fixture). Approx. 5,780 Lumens.
CSSPOTV-XX	ETC ColorSource Spot V (XX Indicates Barrel Lensing To Provide) Fixture With Edison Connector. Provide With Shutter Barrel & EDLT Lens Tube. Set Up Each Fixture With Individually Addressed Units In 5-Channel DMX Operating Mode. Provide With All Power & Individual DMX Interconnect Cabling, Hanging Yoke With A C-Clamp, EDLT Lens Tube & All Other Misc. Hardware Needed In Order To Assemble & Interconnect These Fixtures.	(60) Lumileds Luxeon C and Rebel 2.5W LED's Emitters Per Cell (Included With Fixture). Approx. 9,498 Lumens.
	Lycian Superstar Model 1280 LED Followspot Fixture With Flicker Free Power Supply, Trombone, Black Tripod, Caster Kit, Color Frame, Iris, External Ballast, Yoke Weldment For Pipe Mounting, Mechanical Dimmer, Spigot, Black 5 Color Changer & 1 Handed Dimmer/Iris Control. Provide With Standard Color Gel Pack, 6 Color Boomerang, Etc. As Indicated. VIF For Yoke Weldment Mounting Location With Owner & Field Conditions. Provide Custom Fabricated Mount Per Location From Manufacturer For Appropriate Field Mounting. All Parts Must Be Factory Finished Black Powder Coat. Provide Each Followspot With A Telrad Reflex RG/Tools For Stagecraft Spot Dot 3.0 Selectable Red/Green Dot Sight, Extension Base, Socket Adapter & Magnetic Base Scope Mount With Mounting Base. Provide Arriba Style Padded, Zippered Case For Each. Fully Set Up & Instruct Owner On Typical Sight Use. Provide Each With (12) Duracell AA ProCell/2032 Coin Cell Batteries.	600 Watt White Light LED Engine
CSFVM	ETC ColorSource Fresnel V Max With Wireless Multiverse & NFC Configuration, Motorized 13°- 44° Beam Zoom & Edison Connector. Set Up Each Fixture In 9-Channel Direct DMX Operating Mode. Provide With All Power & Individual DMX Interconnect Cabling, Hanging Yoke With A C-Clamp & All Other Misc. Hardware Needed In Order To Assemble & Interconnect These Fixtures. Provide With 4-Leaf Barn Doors & Egg Crate Louver.	(60) Lumileds Luxeon C LED Emitters - (Included With Fixture). Approx. 10,023 Lumens.
CQ CF-3-48	Chroma-Q Color Force 3-48 RGBA LED Strip Fixture With Edison Connector & (2) Black MegaClaw Clamps & (2) Safety Cables. Fixture To Have A 22° Initial Beam Spread, 92 CRI & A 800 Watt Current Draw. Provide With Both The 43° Border & 80° x 35° Cyc Optic Lens Sets. Set Fixture Up With Harmonize Color Calibration Enabled. Set Up Each Row With Individually Addressed Units In 16-Channel, 16 Bit Profile DMX Operating Mode. Provide With All Power & Individual DMX Interconnect Cabling & All Other Misc. Hardware Needed In Order To Assemble & Interconnect These Fixtures. Set Up Fixture Timing DMX Channels Per Manufacturer Recommendations. Install Border Lens Set. Store Cyc Lens Set Per Owner's Instructions.	Fully Homogenized RGBA LED Arrays (Included With Fixture) Approx. 28,000 Lumens.
CYC	ETC ColorSource Cyc Fixture With Edison Connector. Set Up Each Fixture With Individually Addressed Units In 7-Channel DMX Operating Mode. Provide With All Power & Individual DMX Interconnect Cabling, Hanging Yoke With A C-Clamp & All Other Misc. Hardware Needed In Order To Assemble & Interconnect These Fixtures.	(42) Lumileds Luxeon C LED Emitters - (Included With Fixture). Approx. 4,117 Lumens.

Note: All Fixtures & Lamps Shall Be 120 Volt Versions.

Provide All Fixtures With Malleable Iron C-Clamp (Except As Noted Otherwise), 30" Black Safety Cable With 5/16" Spring Clip - Fehr Bros Industries Product Code # 39312-30B Or Equal (Strip Fixtures Each Get Two Safety Cables), Gel Frame & Holder And 36" Long Power Cable (Unless Otherwise Noted).

Label Each Fixture, Data & Lighting Power Cable As To Type & Length At End With Self-Laminating Or Clear Heat Shrink Style Labels.

All Devices Have Been Located In Approx. Installation Locations; However, Obtain All Final Locations In Writing From The Owner Or Owner's Representative Prior To Locating Fixtures & Incorporating Into Overall Focus Plot (This Includes Locations For All Previously Removed Fixtures Being Incorporated Into New Focus Plot-None Of These Fixtures Have Been Shown On This Plan. Fixtures Shown Here Are New Fixtures Only).

Swap Out (At No Additional Cost) Ellipsoidal Barrels As Needed In Order To Satisfy Owner & Provide Appropriate Beam Spread Patterns For All Positions)

Provide All Fixtures In This Symbols Key With All Of The Appropriate Portable Cabling, C-Clamps, Safety Cables, Etc. As Needed In Order To Provide A Complete & Functioning System. This Includes DMX Addressing & Setup, PowerCon & Network Cables, Spare Lamps, Etc. As Well As All Tie Lines, Yoke Markings, Etc. The TC Shall Uncrate, Assemble, Burn-In, Address, Group, Hang & Focus All Of These Fixtures Per The Owner's Instructions, Ready For Use. All Accessories, Markings, Etc. Noted Are Required For All Fixtures.

Label Each Fixture Yoke With Fixture Wattage, DMX Address, Etc. In Black Block Lettering On Safety Yellow Gaff Tape Or Other Durable Label.

PROVIDE THE FOLLOWING PORTABLE EQUIPMENT:

Equipment	Quantity
5' Portable M/M Network Cables	4
15' Portable M/M Network Cables	2
5' Portable Gender-Bender DMX Cables - M/M	2
5' Portable Gender-Bender DMX Cables - F/F	2
Neutrik Ethercon Coupler (NAC3M M-1)	2
5' Portable M/F DMX Cables (3 Pin/5 Pin)	12
10' Portable M/F DMX Cables (3 Pin/5 Pin)	12
15' Portable M/F DMX Cables (3 Pin/5 Pin)	8
25' Portable M/F DMX Cables (3 Pin/5 Pin)	8
5' - 12 Gauge TMB DataPlex/Power Banded Combo Cable Or Equal Power/DMX Jumper Cables (3 Pin/5 Pin/True1/PowerCon As Required)	12
10' - 12 Gauge TMB DataPlex/Power Banded Combo Cable Or Equal Power/DMX Jumper Cables (3 Pin/5 Pin/True1/PowerCon As Required)	8
25' - 12 Gauge TMB DataPlex/Power Banded Combo Cable Or Equal Power/DMX Jumper Cables (3 Pin/5 Pin/True1/PowerCon As Required)	6
Samson Tie Line/Rip-Tie Hook & Loop Velcro. 500'/600' Rolls. Black. Breaking Strength Approx. 100 Lbs./WLL 15 Lbs.	2
Global Industrial Or Equal Storage Bin Or Wheeled Pack Cart System For All Portable Cabling (See Details For More Info)	As Required

Note: Portable Equipment Schedule Is Spare Portable Cabling And All Cabling Is Intended To Be A Spare Inventory Of Cabling For The Owner's Use & For Interfacing Lighting Equipment To Duplex, Pin & Connector Strip Outlets And For Interfacing Multiple Fixtures Per Circuit Plug.

The Cables & Portable Equipment Indicated On This Schedule Are Not All Inclusive & Are In Addition To Those Noted Elsewhere On This & Other Drawings & Are In Addition To Those Needed To Interconnect Fixtures/Connector Strips/Outlets Shown. Provide Any & All Additional Cables As Necessary For A Complete & Fully Functioning Lighting System, Even If Those Cables Do Not Appear On This Or Other Schedules.

M/F - Stands For Male To Female.
M/M - Stands For Male To Male.
F/F - Stands For Female To Female.

Provide Cables & Training To Owner On Proper Use Of Cables & Cable Wire Gauges. Do Not Exceed Rated Amperage Of Cabling.

Provide All DMX Style Interface Cables With The Pin Configuration Of The Furnished Fixtures (3 Pin Or 5 Pin). Provide Adapter Cables As Necessary.

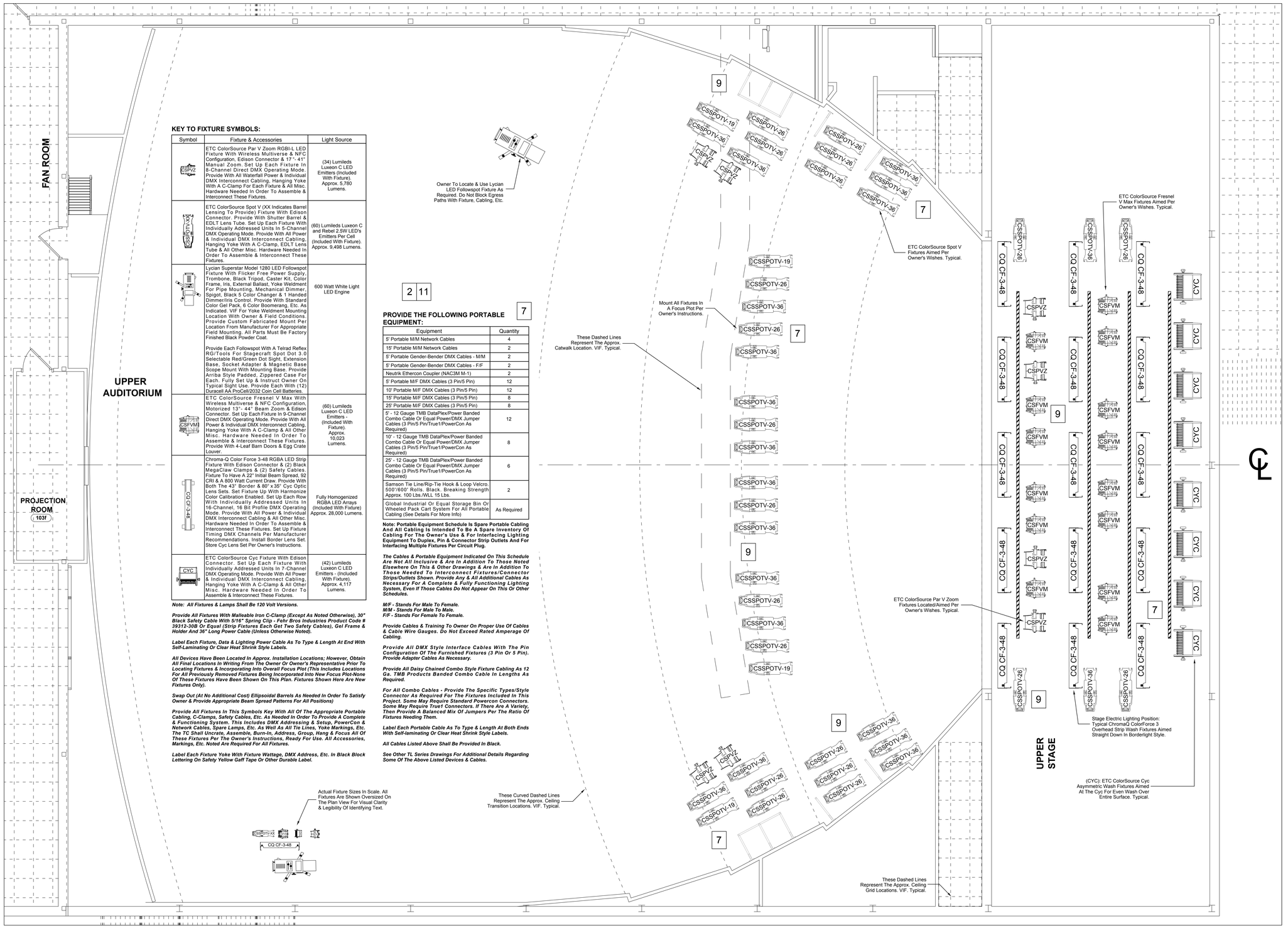
Provide All Daisy Chained Combo Style Fixture Cabling As 12 Ga. TMB Products Banded Combo Cable In Lengths As Required.

For All Combo Cables - Provide The Specific Types/Style Connector As Required For The Fixtures Included In This Project. Some May Require Standard Powercon Connectors. Some May Require True1 Connectors. If There Are A Variety, Then Provide A Balanced Mix Of Jumpers Per The Ratio Of Fixtures Needing Them.

Label Each Portable Cable As To Type & Length At Both Ends With Self-laminating Or Clear Heat Shrink Style Labels.

All Cables Listed Above Shall Be Provided In Black.

See Other TL Series Drawings For Additional Details Regarding Some Of The Above Listed Devices & Cables.



GENERAL FIXTURE & PORTABLE CABLING PACKAGE NOTES:

The Cable Lengths Indicated In The Included Keys/Tables Are In Addition To All Required Hookup Cabling For The Initial Focus Plot. All Indicated Cabling Is Intended To Be The Owner's Spare Portable Cabling Inventory That Can Be Used To Interface New Fixtures Into The Plot And/Or To Reconfigure/Combine Existing Fixtures Per Future Requirements.

For All Cabling Required For The Initial Fixture Plot Interconnects, Field Verify & Provide All Required Cabling In Order To Mount Fixtures Per Owner's Lighting Plot. Ensure That All Initial Plot Cable Lengths Are Of Sufficient Length For The Indicated Interconnection And Placement Of Devices. If Longer Cable Lengths Are Required To Reach Device Placements, Then Provide Longer Cables As Needed. All Cabling Should Have Sufficient Length To Reach The Next Indicated Device Without Stretching The Cable, Swagging The Cable Unsupported Through The Air Between Fixtures Or Stressing The Connectors. Typical Cable Dress Should Be From Device, Back Through Fixture Yoke, Neatly Wrapped Along Pipe To Next Device Location, Through Fixture Yoke And Then To The Indicated Device. No Cables Are To Be Stretched From Device To Device Through The Light Output Pattern Of A Fixture Or Across The Path Of Any Other Device. This Note DOES NOT Apply To Any Cables In The Spare Portable Equipment List. Provide Those Types Of Cables In The Lengths Indicated.

Every Portable Cable Shown Or Referenced On The TL Series Drawings Shall Have One 24" Piece Of Samson Black Braided Tie Line/Rip-Tie Hook & Loop Black Velcro (16" Tie Line For Portable Cables Under 8' In Overall Length) Choked Onto One End Approx. 1" From The Connector.

Terminate DMX Runs As Required. This Is To Ensure Constant Voltage Across All Units, To Maintain Data Signal Integrity & Full Fixture Functionality, To Reduce Line Loss And To Provide Data Signal Termination As Required And As Specified By Each Manufacturer.

Stage LED Strip Fixtures: The Intent Is For These Fixtures To Be Used As RGB Color Borderlight Fixtures. Install All Stage LED Fixtures In A Vertical Orientation (Fixtures Pointing Straight Down At Stage Floor) And On The Stage Electric Pipe Battens Indicated. Fixtures Shall Be Spaced Evenly Across The Electric Set Batten So That Light Output Is Even Within Proscenium Opening (Side-To-Side) With Center-To-Center Coverage. Fixtures Shall Be Initially Grouped Onto Console Control Channels (One For Lamp Intensity & One For Color) In Order For Owner To Quickly & Easily Change The Color & Intensity Of The Entire Group Of Fixtures At The Same Time.

The Physical Fixture Layout Locations Shown On This Drawing Are Not Intended To Be A Final Lighting Plot. The Actual Fixture Plot & Physical Fixture Layout Is TBD By The Owner During The Focus Plot Day(s) And Arranged As Such By The Installing Contractor. Fixtures Shown In Line With Other Fixtures, Even If They Appear Beyond The End Of A Connector Strip Or Other Related Device, Are Intended To Be Mounted On That Same Batten Or Device Together With The Others Next To Them.

Gather All Bundled Cabling Together Every 12" With Black Cord-Lox Style Velcro Closed Loop Series Tie Wraps. Tie Wraps Shall Be Installed Snugly But Not Too Tightly.

Velcro Wrap All Network/DMX Cabling To The SO Cable Every 12" With Black Cord-Lox Style Velcro Closed Loop Series Straps. Straps Shall Be Installed Snugly But Not Too Tightly. The Intent Is For The Straps To Be Installed Loosely Enough For The Network/DMX Cabling To Slip Through The Straps As The Associated Set Is Moved Up/Down Through Its Total Travel Range. Due To Cabling Differences With The SO Cable & Unequal Movement Characteristics, Network/DMX Cabling Shall Not Be Permanently Bonded With Or Too Tightly Mechanically Attached To The SO Cabling. Operate Each Related Set And Ensure That The Network/DMX Cabling Does Not Become Stressed Or Stretched Taught During Any Portion Of Normal Set Travel/Movement.

The Theatrical Lighting Fixtures Shall Not Be Installed In This Space Until All Dust Creating Work, Paint Work, Drywall Work, Sanding Work Has Been Completed And All Dust/Debris Has Been Cleaned Up. If Fixtures Must Be Installed Prior To Completion Of This Work Or Cleanup, Then They Must Be Fully Wrapped In Heavy Duty Plastic Bags That Are Taped Shut. Fixtures May Not Be Powered On Or Even Plugged Into Power While Bagged.

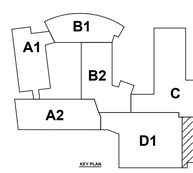
Instruct The Owner On The Hazards Of Leaving Theatrical Fixtures On For Long Periods Of Time While Aimed Directly At Sensitive Items Such As Curtains, Scrims, Cycloramas, Projection Screens Or Shells. Fixtures Should Only Be On For The Duration Of Scenes, Etc. And Not Aimed At Or Focused On Full For Hours Onto Any Potentially Flammable Items Such As Those Noted Above, Even Though These Items May Have Flame Retardant Characteristics.

Space Cyc Fixtures According To The Manufacturer's Specs And In Order To Maintain An Even Coverage Of The Cyc While In Use.

FIXTURE WARRANTY NOTE:

ANY FIXTURE SUBSTITUTED FOR THE SPECIFIED ETC LED FIXTURES PROVIDED AS PART OF THIS PROJECT SHALL FEATURE THE FOLLOWING WARRANTIES TO MATCH THE SPECIFIED MANUFACTURER'S STANDARD WARRANTY:

- 5 YEAR FULL FIXTURE WARRANTY
- 10 YEAR LED ARRAY WARRANTY



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THEATRICAL LIGHTING SYSTEM THEATRICAL FIXTURE PLAN-AREA D2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

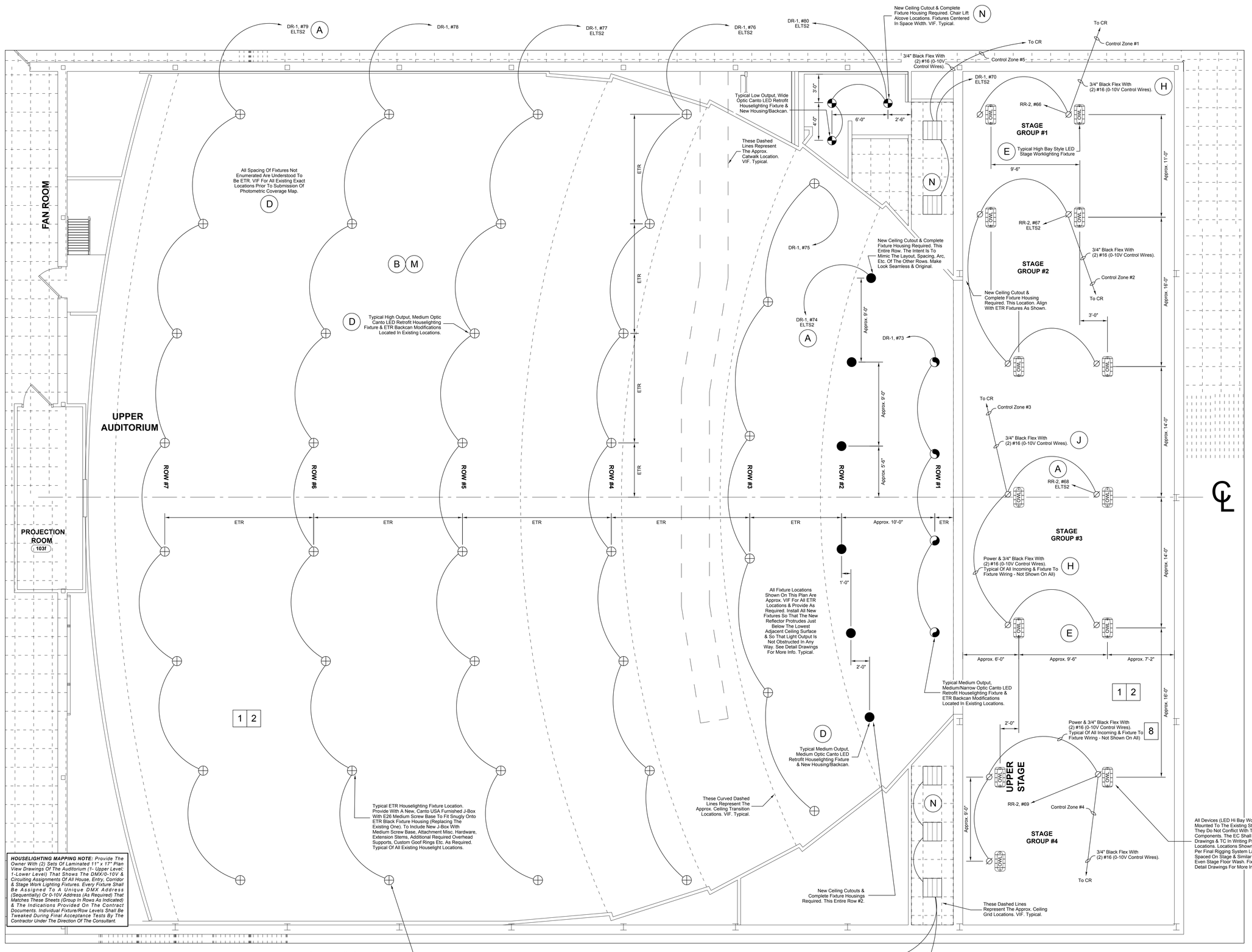
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BR-TL1.3

PROJECT NO: 2012-254

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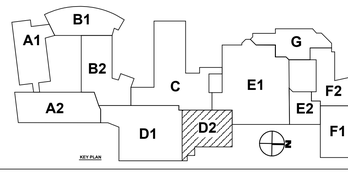
REFER TO THE TL4.1 SERIES DRAWINGS FOR ALL LIGHTING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TL SERIES DRAWINGS.



HOUSELIGHTING MAPPING NOTE: *Provide The Owner With (2) Sets Of Laminated 11" x 17" Plan View Drawings Of The Auditorium (1- Upper Level; 1-Lower Level) That Shows The DMX/0-10V & Circuiting Assignments Of All House, Entry, Corridor & Stage Work Lighting Fixtures. Every Fixture Shall Be Assigned To A Unique DMX Address (Sequentially) Or 0-10V Address (As Required) That Matches These Sheets (Group In Rows As Indicated) & The Indications Provided On The Contract Documents. Individual Fixture/Row Levels Shall Be Tweaked During Final Acceptance Tests By The Contractor Under The Direction Of The Consultant.*

1 HOUSE & STAGE WORK LIGHTING PLAN

SCALE: 1/4" = 1'



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THEATRICAL LIGHTING SYSTEM HOUSE & WORK LIGHTING PLAN-AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

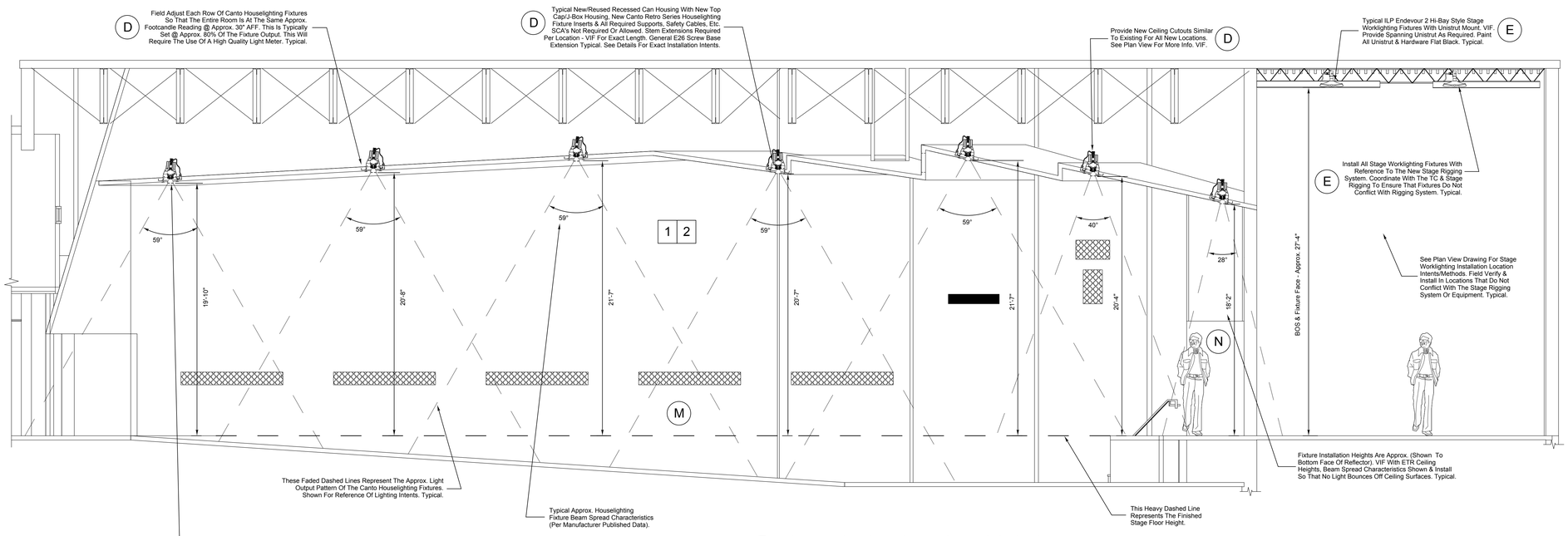
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BR-TL1.4

PROJECT NO: 2012-254

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1 HOUSE & STAGE WORK LIGHTING SECTION

SCALE: 1/4" = 1'

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THEATRICAL LIGHTING SYSTEM HOUSELIGHTING SECTION-AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TL1.5

PROJECT NO: 2012-254

REFER TO THE TL4.1 SERIES DRAWINGS FOR ALL LIGHTING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TL SERIES DRAWINGS.

Provide:

(1) ETC Ion XE 20 - 2k Lighting Console
(1) iPad With Accessories - See Description To The Right
(2) LED Touchscreen Monitors - Dell P2424HT (Or Current Replacement Model) 24" Full HD 16:9 Multitouch LED Touchscreen Monitor - Dark Gray/Black
(3) 25' Portable Network Cables (Console & Computer To Network Plate - Gepco CT Series Heavy-duty Tactical Style Cables)
(2) 35' Black Edison To Edison Extension Cord
(1) SL Waber-by-Tripp Lite Deluxe Style Metal Box Multiple Outlet Strip
(2) 6' Display Port Cables (Console To Monitors) And/Or
(2) 6' USB Cable (From Console To Touchscreen Monitors)
(1) APC Smart-UPS 1500VA Pure Sine Wave USB Model # SMT1500X413 (Locate Under Control Booth Counter - To Power Lighting Console, LCD Monitors & Related Equipment)
(2) X-LED Series Littlelight Gooseneck Work Lights (Provide Powered Base As Needed & 18" Long Versions Of Fixtures)
(1) Chief Manufacturing K1D220B Or Current Equivalent Dual Swing Arm Monitor Mount (To Mount LCD Monitors)
(1) USB Extended Keyboard - Black
(1) USB 2-Button Laser Mouse - Black
(1) Multi-port USB Hub
(1) 32GB USB Memory Stick (Thumb Drive)

11

Any Other Miscellaneous Cables Needed To Complete The System. See Other TL Series Drawings For More Information. Note That All Loose Lighting Or Power Cables & Wiring Must Be Dressed Neatly With Tie Wraps & Eyes Or Ring Runs & Tucked Up Against Underside Of Lighting Countertop.

Dell P2424HT 24" 16:9 10-Point Touchscreen IPS Monitor (Or Current Replacement Model) 24" Full HD 16:9 Black Multitouch LED Touchscreen Monitor

Dell P2424HT 24" 16:9 10-Point Touchscreen IPS Monitor (Or Current Replacement Model) 24" Full HD 16:9 Black Multitouch LED Touchscreen Monitor

7

1 2

9

(1) ETC Ion XE 20 - 12k Lighting Console

Provide:

(1) ETCpad With Accessories - See Description To The Right
(1) Pelican Hardshell Case (See Descriptions On Details Sheet For More Complete Info)

Provide (1) ETCpad With Hand Strap, RJ45 Adapter Plate, USB-C Charger With Detachable Cable & ETCpad USB Hub. Provide ETCpad With All Applicable ETC Software Apps Preloaded And Fully Configured (Programmed Per Specifications) & Wireless Router(s).

Provide (1) Of Each Accessory Listed/Shown Below.

Any Other Miscellaneous Cables Needed To Complete The System. See Other TI Series Drawings For More Information. Note That All Loose Lighting Or Power Cables & Wiring Must Be Dressed Neatly With Tie Wraps & Eyes Or Ring Runs & Tucked Up Against Underside Of Lighting Countertop.

VESA Dock

Shoulder Strap, EETi Stylus Pen & Battery Pack With Meter.

6

Office Dock

Portable Wireless Access Point

ETCPad With Hardshell Case

1 2

(RN)

LCD Station Interface Plug

(2N - Dual Network)

Lighting Network - Lighting Device Hookup Only

Net # X - Max Additional Length XX'

3/4" With (2) Belden 1583A

3/4" With (1) Belden 1583A

ETR JB (VIF FOR SIZE, LOCATION, ETC.)

(PLCD)

Provide One ETC ULCD-P With 50' Cable And In Consolette Case

H

3/4" With (1) Belden 1583A

3/4" With (2) Belden 1583A

J

Provide Floor Trenching/Carpet Repair As Required If ETR Is Insufficient For Reuse. VIF.

Located In The Control Booth

3/4" With (1) Belden 8471 (1) #14

Owner Selected Name Here

Located At The House Rear Left Entrance

(UH10005)

Owner Selected Name Here

Located At The House Rear Right Entrance

3/4" With (1) Belden 8471 (1) #14

(UH10005)

O

1 2

M

3/4" With (1) Belden 1583A

J

3/4" With (2) Belden 1583A

F

Lighting System Control Screen

(PLCD)

Touch Screen Anywhere To Activate

3

Located On The Downstage Right Wall

3/4" With (1) Belden 8471 (1) #14

PROVIDE EVERY ENTRY & LCD STATION WITH THE OPTIONAL ETC LOCKING SLIDING COVER AND KEYS. DELIVER TO THE JOBSITE AT THE APPROPRIATE TIME FOR TIMELY INSTALLATION. COORDINATE AS REQUIRED.

Owner Selected Name Here

Located At The Upstage Right Entrance

3/4" With (1) Belden 8471 (1) #14

7

(UH10002)

Owner Selected Name Here

Located At The House Left Side Front Corridor Entrance

3/4" With (1) Belden 8471 (1) #14

(UH10005)

Owner Selected Name Here

Located At The Wheelchair Lift Entrance

3/4" With (1) Belden 8471 (1) #14

(UH10005)

H

Owner Selected Name Here

Located At The House Right Side Front Corridor Entrance

3/4" With (1) Belden 8471 (1) #14

(UH10005)

3

Owner Selected Name Here

Located At The Downstage Left Entrance

3/4" With (1) Belden 8471 (1) #14

(UH10002)

(2N - Dual Network)

Lighting Network - Lighting Device Hookup Only

Net # X - Max Additional Length XX'

Located On Stage Thrust Wall

3/4" With (2) Belden 1583A

Conduit & Wiring As Required Per System Manufacturer's Recommendations

Provide An FACP Interface & A Lockdown System Tie Interface And All Required Hardware, Unison Processor Settings, Baud Rate Settings, Nodes/Relays, Contact Closures, Misc. Third-Party Interfaces, Etc. For Communications Rack/Dimmer/Relay Racks/ELTS2 System (Field Verify-Coordinate With Related Trades). The Existing FACP System Is A XXXX System. The Lockdown System Shall Be As Provided By XXXX Or As Existing. Refer To Each Manufacturer For Specific Equipment Required For Interfaces & Provide As Required. Lockdown System Devices Are Located In (VIF).

Provide All Factory Service Tech Labor, Conduit & Cabling, Misc. Communications Range Extenders, Etc. As Needed, Interface Devices And Plates, System Programming Information, Etc. And To Allow Each Of These Systems To Interface With And Control The Lighting System (Via Predetermined Preset Recalls, Etc.). Provide All Interface, Programming, Preset And System Configuration Information Necessary To Each Manufacturer/Programmer So That Architectural Control System Triggers, Etc. Can Be Programmed Into This System; To Trigger Presets.

CONTACT CLOSURE FROM LOCKDOWN SYSTEM (LOCKDOWN SYSTEM HEAD END). COORDINATE HOOKUP WITH EXISTING OR NEW SYSTEM SUPPLIERS/MANUFACTURERS.

LOCKDOWN SYSTEM TIE IN SHALL BE ON A 0 SECOND TAKEOVER DELAY. VERIFY IN WRITING WITH THE OWNER THEIR CONTROL & INTERFACE PREFERENCES FOR TAKEOVER & RELEASE AND WHAT LIGHTING SYSTEM STATUS THE LOCKDOWN SYSTEM SHOULD TRIGGER IN THE AUDITORIUM. THE ACTIVATION AND SUBSEQUENT RELEASE OF THE LOCKDOWN SYSTEM AND THE TRIGGERING OF SPECIFIC LIGHTING CIRCUITS SHALL BE AUTOMATIC, WITHOUT THE AID OR NEED FOR HUMAN INTERVENTION (OTHER THAN THE INITIAL LOCKDOWN TRIGGER), AND SHALL BE SET UP BY WORKING IN A COORDINATED EFFORT WITH THE OWNER, LOCKDOWN SYSTEM COMPANY PERSONNEL, LOCAL FIRE MARSHALL AND ALL RELATED TRADES. SET UP AND TEST THE LOCKDOWN SYSTEM AND RELATED LIGHTING AS PER OWNER'S WISHES AND ALL APPLICABLE CODES.

LED LiteLights

ETC ERn4 (Rack Or DIN Mount)

ETC Paradigm Architectural Control System & DIN Rail System Equipment Behind. Provide With Vented Cover Over Devices After Setup.

Network Patch Panel Legend(s)

Patch Panel

Brush Panel

Cisco PoE Switch(es)

Cisco PoE Switch(es)

Brush Panel

Patch Panel

Blank Panel

LED LiteLights

Blank Panel

4 RU Locking Rack Drawer

(TC Shall Provide All Internal Rack Power, Power Distro, Power Supplies, DIN Rails And DMX & Network Wiring)

Blank Panel

Vent Panel

Blank Panel

DMX/0-10V Patch Panel Legend(s)

DMX Gateway(s)

DMX Gateway(s)

DMX Gateway(s)

0-10V Gateway(s)

Vent Panel

Mid Atlantic UPX-2000R-2

Mid Atlantic UPX-EXPANRUN

Communications Rack (CR)

7

(CR) Communications Rack Shall Be A Mid Atlantic DWR Series Rack. Provide DWR-XX-XX (Sized As Required):

Provide All Of The Following For The Designed System: ETC Unison ERn4 (Rack Mount Architectural Control Unit, Paradigm Station Power Module & Paradigm Architectural Control Processor-System Must Have A Minimum Of (XX) DMX Universes (See Other Drawing Notes For Required Quantity) Of Control.

Provide All Of The Following Devices For The Designed System: All Necessary DMX/Network Splitters, DMX Merge Device(s), DMX Distribution/Response Gateways, 0-10V Response Gateways, Ethernet PoE Switch(es), Patch Panel(s), ETC ARC System Drivers, Blues System Power Supply, Cable Management Panel(s), Brush Panel(s), One Four Space Mid Atlantic Locking Rack Drawer, Littlelight Rack Mount Panel Kit(s), Mid Atlantic LT Series Single Rackmount LED Worklight - Mounted To Rear Rack Rails Near Top Of Rack, DIN Rail Mount System, MPR Modules, All Necessary Misc. Control Interfaces, Lacing Bars, Ethernet Patch Panel Legend Silkscreened On One Of The Blank Panels, Other Related & Necessary Misc. Provide With Vent Panels In All Blank Spaces.

Provide With A Mid Atlantic UPX-2000R-2 Rack Mounted Pure Sine-Wave Backup UPS With Mid Atlantic UPX-EXPANRUN Expansion Battery Pack To Power All Lighting Control Equipment. Equipment & Entire Rack Backup Power Supply Located Within. Provide Rack In A Depth That Is Deep Enough So All Gear & Related Cabling Fits And So That None Of The Gear Blocks Access To The Outlets In The MPR Modules (At Least 26" Deep Model). Locate All Rack Rails So That Rack Door(s) May Be Closed Without Engaging Equipment. Provide All Devices With Required Power Supply Device(s). Provide Rack Mounted Power Distribution Equipment. Provide Additional Equipment As Is Necessary To Make A Complete & Fully Functioning System.

Always Provide The Latest, Updated Or Replacement Models Of Any Products Listed That Have Been Discontinued.

NOTE - PROVIDE SUFFICIENT POWER INJECTORS TO POWER ALL PORTS ON NETWORK SWITCH(ES).

Provide Only Those Gateways Required To Properly Populate & Control The Destination Devices Per The Design. Do Not Provide Additional Gateways That Do Not Terminate To Functioning Devices. Typical Of All.

All Rack Mounted Devices Shall Be Properly Mounted On Rack Panels. Provide DIN Rail In Drawer Type Configuration. No Devices Or Related Wiring May Interfere With Front Rack Door Closing. All Internal Rack Wiring Shall Be Similar To Those Types Shown & As Per Manufacturer's Recommendations.

CR RACK AC POWER:
(2) - 120 VAC, 20 AMP, Single Phase Circuits: RR-2, #62 & 63 Wired Directly Into Quad Outlet.

A

Conduit & Wire Designations Are Shown On Referenced Drawings

J

See Other TL Series Drawings For Communications Of Network Flow(s)

Provide ALL Modules Listed. Those That Are Unused Will Be Spares.

3/4" With (1) #14 AWG Twisted Pair

Sensor 3 Battery Pack

SSSH

DR-1

ETC SENSOR SR3-6 DIMMER RACK WITH CEM3 CONTROL MODULE

6 - DUAL 20 AMP D20E MODULES

73 - 84

5

B

3 - 20 AMP DIMMED CIRCUITS (ALL CIRCUITS VIA GUB-1)

HOUSELIGHTING CIRCUITS: # 73, 75 & 78 (3 CIRCUITS)

6 - 20 AMP DIMMED CIRCUITS

SPARE CIRCUITS: # 81 - 84 (4 CIRCUITS)

5 - 20 AMP DIMMED CIRCUITS (ALL CIRCUITS VIA GUB-1)

CONTACT CLOSURE FROM EXISTING FIRE ALARM SYSTEM (FROM THE MAIN FIRE ALARM CONTROL PANEL-FACP) PROVIDED BY THE CONTRACTOR (INCLUDING ALL WIRING, CONDUIT & OTHER ACCESSORIES & HARDWARE NEEDED). COORDINATE HOOKUP WITH EXISTING FIRE ALARM SYSTEM SUPPLIER/MANUFACTURER.

PROVIDE A COORDINATED TEST WITH THE LOCAL FIRE MARSHALL AND OWNER TO PROVE PROPER PERFORMANCE AS PART OF CLOSEOUT COMMISSIONING. ADJUST ANY DELAY SETTINGS PER CODE AND AS REQUIRED BY THE FIRE MARSHALL DURING THE TEST.

MAIN DIMMER RACK POWER FEED:

DR-1; 3Ø, 80 AMP 120/208 VAC. SEE E SERIES DRAWINGS FOR PANEL & CIRCUIT DESIGNATION:

20 Amp, 3 Pole Breaker Box/Disconnect In Separate Enclosure. Total Run Length From RR Rack, Through Sense Breaker & To ELTS2 Device Cannot Exceed 10' Per NEC Code. See Also Emergency Flow On Details Sheets For Additional Information. Provide Sense Feeds, Disconnects, Etc. As Required. Not All Shown Here.

Sensing Input

7 - 20 AMP RELAY CIRCUITS

ELTS2

I

ETC EMERGENCY LIGHTING TRANSFER SWITCH

ELTS2-1-M-120-XX

2 - 20 AMP STANDARD, NON-SWITCHING CIRCUITS.

CR RACK CIRCUITS: # 62 & 63 (2 CIRCUITS)

2 - 20 AMP RELAY CIRCUITS.

STAGE WORKLIGHTING CIRCUITS: # 67 & 68 (2 CIRCUITS)

5 - 20 AMP DIMMED CIRCUITS

HOUSELIGHTING CIRCUITS: # 74, 76, 77, 79 & 80 (5 CIRCUITS)

1 - 20 AMP STANDARD, NON-SWITCHING CIRCUIT.

DEBC CIRCUIT: # 64 (1 CIRCUIT)

2 - 20 AMP RELAY CIRCUITS.

ENTRY CORRIDOR HOUSELIGHTING CIRCUITS: # 70 & 71 (2 CIRCUITS)

FROM RELAY PANELS (SEE BELOW FOR MORE INFO)

5 Wire, 3Ø, 40 AMP, 208V Power Feed: (From XX) See E Series Drawings For More Info.

SEE OTHER DRAWING DETAILS AS WELL AS MANUFACTURER APPROVED SHOP DRAWINGS FOR EXACT LIGHTING SYSTEM AND EM INTERFACE WIRING REQUIRED.

RR-1

ETC Sensor IQ48 Relay Panel. 120/208 VAC (With 200 Amp Breaker)

Provide Mains Fed Panel With Circuits Breakers/Relays, Network, Door, Main Breaker, Individual Breakers/Relays, IQ UPS Control Backup Wiring Kit, Additional CR Mounted UPS, Required Electrical Tie-In For UPS, Etc.

Provide All Required Interconnections & Feeds To External Equipment.

Panel Contains All Load Breakers & Relays. See Manufacturers Data Sheets For Line/Load & Panel Wiring Details.

Control Hookup By Factory Technician.

7

B

30 - 20 AMP RELAY CIRCUITS.

J

GUB-1

FOH COVE CE0B-1 DEVICE CIRCUITS: # 1 - 3 (3 CIRCUITS)

FOH COVE CE0B-2 DEVICE CIRCUITS: # 4 - 6 (3 CIRCUITS)

FOH COVE CE0B-3 DEVICE CIRCUITS: # 7 - 9 (3 CIRCUITS)

HOUSE LEFT FRONT TORMENTOR TE0B-1 DEVICE CIRCUITS: # 10 & 11 (2 CIRCUITS)

HOUSE RIGHT FRONT TORMENTOR TE0B-2 DEVICE CIRCUITS: # 12 & 13 (2 CIRCUITS)

HOUSE LEFT MIDDLE TORMENTOR TE0B-3 DEVICE CIRCUITS: # 14 & 15 (2 CIRCUITS)

HOUSE RIGHT MIDDLE TORMENTOR TE0B-4 DEVICE CIRCUITS: # 16 & 17 (2 CIRCUITS)

HOUSE LEFT REAR TORMENTOR TE0B-5 DEVICE CIRCUITS: # 18 - 20 (3 CIRCUITS)

HOUSE LEFT FRONT TORMENTOR TE0B-6 DEVICE CIRCUITS: # 21 - 23 (3 CIRCUITS)

C

GUB-2

FIRST STAGE ELECTRIC CIRCUITS: # 24 - 29 (6 CIRCUITS)

6 - 20 AMP RELAY CIRCUITS.

GUB-3

SECOND STAGE ELECTRIC CIRCUITS: # 30 - 35 (6 CIRCUITS)

6 - 20 AMP RELAY CIRCUITS.

GUB-4

THIRD STAGE ELECTRIC CIRCUITS: # 36 - 41 (6 CIRCUITS)

6 - 20 AMP RELAY CIRCUITS.

GUB-5

FOURTH STAGE ELECTRIC CIRCUITS: # 42 - 47 (6 CIRCUITS)

Flexible Black SO & Network Cables - Typical Of All Stage Electrics.

10 G L

1 - 20 AMP STANDARD, NON-SWITCHING CIRCUIT.

FOLLOWSPOT CIRCUIT: # 48 (1 CIRCUIT)

1 2

3/4" With (1) Belden 1583A

MAIN POWER FEED PANEL:
RR-1; 3Ø, 200 AMP 120/208 VAC.
RR-2; 3Ø, 100 AMP 120/208 VAC. SEE E SERIES DRAWINGS FOR PANEL & CIRCUIT DESIGNATION:

ELTS2 SENSING CIRCUIT SHALL BE FED FROM RELAY/DIMMER RACKS AND INTO ELTS2 UNIT.

FEED BOTH RELAY RACKS PER NEC.

M

RR-2

ETC Sensor IQ24 Relay Panel. 120/208 VAC (With 100 Amp Breaker)

Provide Mains Fed Panel With Circuits Breakers/Relays, Network, Door, Main Breaker, Individual Breakers/Relays, IQ UPS Control Backup Wiring Kit, Additional CR Mounted UPS, Required Electrical Tie-In For UPS, Etc.

ProvideAll Required Interconnections & Feeds To External Equipment.

Panel Contains All Load Breakers & Relays. See Manufacturers Data Sheets For Line/Load & Panel Wiring Details.

Control Hookup By Factory Technician.

5

3 - 20 AMP RELAY CIRCUITS.

STAGE WALL BOX WOB-1 CIRCUITS: # 49 - 51 (3 CIRCUITS)

3 - 20 AMP RELAY CIRCUITS.

STAGE WALL BOX WOB-2 CIRCUITS: # 52 - 54 (3 CIRCUITS)

3 - 20 AMP RELAY CIRCUITS.

STAGE WALL BOX WOB-3 CIRCUITS: # 55 - 57 (3 CIRCUITS)

3 - 20 AMP RELAY CIRCUITS.

STAGE WALL BOX WOB-4 CIRCUITS: # 58 - 60 (3 CIRCUITS)

J

1 - 20 AMP STANDARD, NON-SWITCHING CIRCUIT.

INDEX LIGHTING CIRCUIT: # 61 (1 CIRCUIT)

K

2 - 20 AMP STANDARD, NON-SWITCHING CIRCUITS.

CR RACK CIRCUITS: # 62 & 63 (2 CIRCUITS)

1 - 20 AMP STANDARD, NON-SWITCHING CIRCUIT.

DEBC CIRCUIT: # 64 (1 CIRCUIT)

1 - 20 AMP STANDARD, NON-SWITCHING CIRCUIT.

PIT LIGHTING CIRCUIT: # 65 (1 CIRCUIT)

4 - 20 AMP RELAY CIRCUITS.

STAGE WORKLIGHTING CIRCUITS: # 66 - 69 (4 CIRCUITS)

2 - 20 AMP RELAY CIRCUITS.

HOUSELIGHTING CIRCUITS: # 70 - 71 (2 CIRCUITS)

1 - 20 AMP RELAY CIRCUIT.

SPARE CIRCUIT: # 72 (1 CIRCUIT)

1 THEATRICAL LIGHTING SYSTEM SINGLE LINE FLOW DIAGRAM

SCALE: NONE

HUNT ENGINEERS | ARCHITECTS | SURVEYORS
ALBANY, NY - BINGHAMTON, NY - ROCHESTER, NY
WWW.HUNT-EAS.COM 607 - 358 - 1000
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC22003134641

DRAWN BY:	SPJ
CHECKED BY:	SPJ
DATE:	07/24/2026
PHASE:	CD

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#	DATE:	REVISION:
1	10/09/2026	ISSUED FOR BID

IT IS A VIOLATION OF THE LAW FOR ANY PERSON TO MAKE UNAUTHORIZED ALTERATIONS OR ADDITIONS TO PLANS BEARING A LICENSED ENGINEER'S, ARCHITECT'S OR SURVEYOR'S SEAL.

ACOUSTICS & AUDIO/VISUAL CONSULTANTS IN THEATRICAL DESIGN
ITAMA PARTS & PARTS PARTS, PARTS, PARTS & PARTS

THEATRICAL LIGHTING SYSTEM SINGLE LINE FLOW DIAGRAM-AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST. ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TL2.1

PROJECT NO: 2012-254

REFER TO THE TL4.1 SERIES DRAWINGS FOR ALL LIGHTING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TL SERIES DRAWINGS.

Continuation Of Data/Network Flow From TL 4.1 Drawing

Located In WOB-1 (D2N Device) — Lighting Network Data Distribution — DMX Gateway — Data+ Data-

Located In WOB-2 (D2N Device) — Lighting Network Data Distribution — DMX Gateway — Data+ Data-

Located In WOB-3 (D2N Device) — Lighting Network Data Distribution — DMX Gateway — Data+ Data-

Located In WOB-4 (D2N Device) — Lighting Network Data Distribution — DMX Gateway — Data+ Data-

10

7

1 2

3/4" With (1) Belden 1583A

3/4" With (1) Belden 1583A

3/4" With (1) Belden 1583A

3/4" With (1) Belden 1583A

(WAP Device) Cisco Aironet 1600 Series Ceiling Mounted Wireless Access Point

Provide All Misc. Third Party Equipment, Programming, Browsers, Support, Etc. Required In Order To Incorporate This Access Point Into The ETC Architectural Lighting Control System & Apple iPad Access/Control Of This System.

3/4" With (1) Belden 1583A

J

2" With (10) Belden 1583A

Network Pull Box #1 (Lighting Network Wiring Inside)

(NPB-1)

Located In The Attic Area Near The Catwalk

Each To Be 3/4" With (1) Belden 1583A (Can Be Flex Conduit).

Located In CEOB-1 — Lighting Network Data Distribution — DMX Gateway — (D2N Device)

Located In CEOB-2 — Lighting Network Data Distribution — DMX Gateway — (D2N Device)

Located In CEOB-3 — Lighting Network Data Distribution — DMX Gateway — (D2N Device)

10

Located In TEOB-1 — Fed From CR Rack Gateway #XX — (2D-G - Dual DMX Device)

Located In TEOB-2 — Fed From CR Rack Gateway #XX — (2D-G - Dual DMX Device)

Located In TEOB-3 — Fed From CR Rack Gateway #XX — (2D-G - Dual DMX Device)

Located In TEOB-4 — Fed From CR Rack Gateway #XX — (2D-G - Dual DMX Device)

Located In TEOB-5 — Fed From CR Rack Gateway #XX — (2D-G - Dual DMX Device)

Located In TEOB-6 — Fed From CR Rack Gateway #XX — (2D-G - Dual DMX Device)

8

10

F

1" With (4) Belden 1583A

Located On The Upstage Left Wall (Coordinate Exact Location With ETR Obstructions)

Network Pull Box #2 (Lighting Network Wiring Inside)

(NPB-2)

Each To Be 3/4" With (1) Belden 1583A (Can Be Flex Conduit).

F

ALL WIRING THAT IS NOT IN CONDUIT SHALL BE PLENUM RATED WIRING.

Located At The First Stage Electric — (ND Device) Art-Net/sACN Network Node — Lighting Network Data Distribution — DMX Gateway — (D2N Device)

Located At The Second Stage Electric — (ND Device) Art-Net/sACN Network Node — Lighting Network Data Distribution — DMX Gateway — (D2N Device)

Located At The Third Stage Electric — (ND Device) Art-Net/sACN Network Node — Lighting Network Data Distribution — DMX Gateway — (D2N Device)

Located At The Fourth Stage Electric — (ND Device) Art-Net/sACN Network Node — Lighting Network Data Distribution — DMX Gateway — (D2N Device)

Flexible Network Cable By TC Via Cable Management (Into Strip Via Connector Strip "Top Half") - Typical Of All Stage Electrics.

G

L

10

7

1 NETWORK DISTRIBUTION SINGLE LINE FLOW DIAGRAM

SCALE: NONE

(JB)

J

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control)

E

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control).

Stage Right Corridor Houselighting: Approx. (2) Fixtures Total

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control).

(JB)

H

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control)

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control).

Typical Zone Of "Directly Controlled Luminaire" 0-10V Driven Stage Worklighting Fixtures. Provide 0-10V Jumpers, Etc. To All Indicated Rows. Not All Shown.

Stage Left Corridor Houselighting: Approx. (3) Fixtures Total

Typical Last Stage Worklighting Fixture In Row. Not All Shown.

Each To B 3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control)

J

(JB)

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control)

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control).

J

E

Stage Worklighting Group #1: Approx. (2) Fixtures Total

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control)

Typical 0-10V Cable (Homerun To CR Rack) To Stage Worklights. Route To Fixtures As Needed.

(JB)

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control)

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control).

Typical Zone Of "Directly Controlled Luminaire" 0-10V Driven Stage Worklighting Fixtures. Provide 0-10V Jumpers, Etc. To All Indicated Rows. Not All Shown.

Stage Worklighting Group #2: Approx. (4) Fixtures Total

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control).

Typical Last Stage Worklighting Fixture In Row. Not All Shown.

(JB)

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control)

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control).

J

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control).

Typical Zone Of "Directly Controlled Luminaire" 0-10V Driven Stage Worklighting Fixtures. Provide 0-10V Jumpers, Etc. To All Indicated Rows. Not All Shown.

Stage Worklighting Group #4: Approx. (3) Fixtures Total

Typical Last Stage Worklighting Fixture In Row. Not All Shown.

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control).

(JB)

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control)

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control).

Typical Zone Of "Directly Controlled Luminaire" 0-10V Driven Stage Worklighting Fixtures. Provide 0-10V Jumpers, Etc. To All Indicated Rows. Not All Shown.

E

Stage Worklighting Group #3: Approx. (4) Fixtures Total

3/4" Black Hard Conduit/Flex With (2) #16 (0-10V Control).

Typical Last Stage Worklighting Fixture In Row. Not All Shown.

Located On The Stage Thrust Wall — Lighting Device Outlets — (1) 20 AMP, 120 V, 1 Phase Circuit. RR-2: #65 — (Duplex Outlet Device)

Located On The Rear Auditorium Wall — Followspot Plug-In — (Single Outlet Device) — Followspot Plug-In — (1) 20 AMP, 120 V, 1 Phase Circuit. RR-1: #48 — (Single Outlet Device)

2 HOUSE & WORK LIGHTING POWER & DATA NETWORK DISTRIBUTION SINGLE LINE FLOW DIAGRAM

SCALE: NONE

DRAWN BY:	SPJ
CHECKED BY:	SPJ
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THEATRICAL LIGHTING SYSTEM SINGLE LINE NETWORK FLOW DIAGRAM-AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

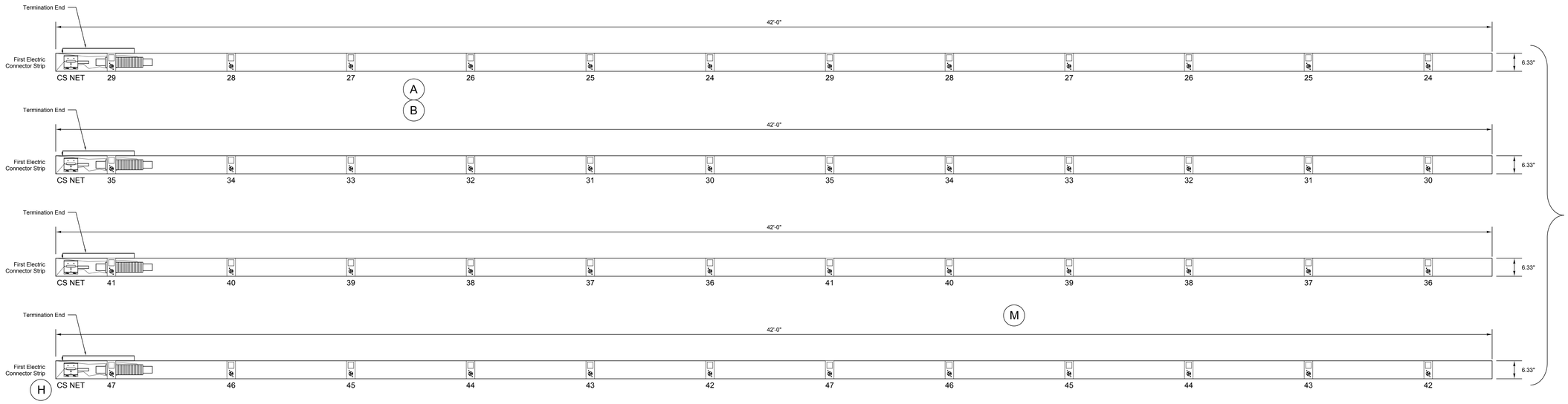
ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TL2.2

PROJECT NO: 2012-254



Stage Connector Strips Shall Be Oriented So That The Connectors And Circuit Numbers Are Facing The Upstage (Rear Stage) Wall.

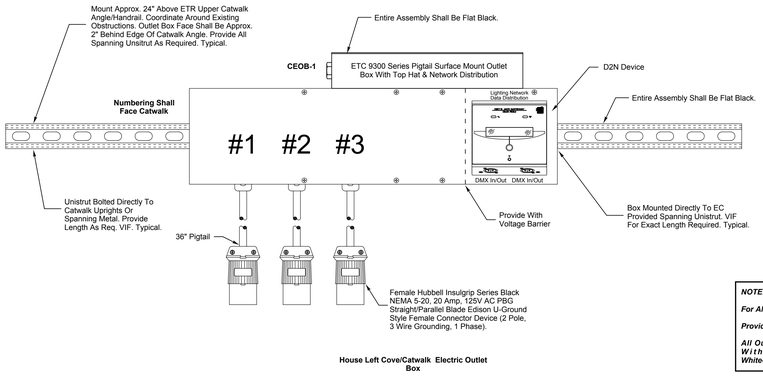
Provide Connector Strip Brackets As Indicated On TR Series Drawings.

All Circuits Shall Be Labeled With Standard 2" Tall, Die-Cut, White-On-Black Stick-On Lettering.

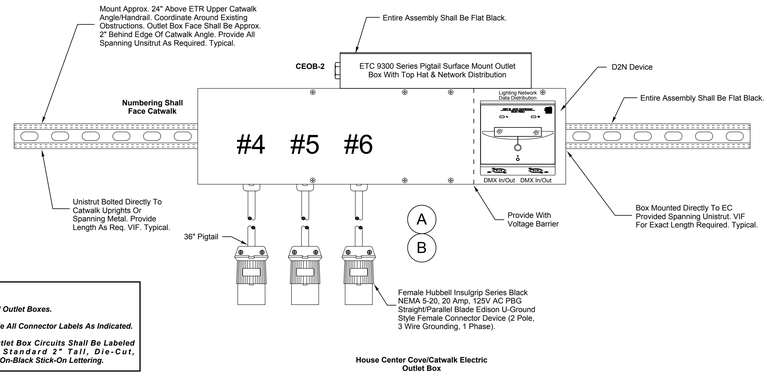
REFER TO THE TL4.1 SERIES DRAWINGS FOR ALL LIGHTING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TL SERIES DRAWINGS.

1 STAGE ELECTRIC CONNECTOR STRIP DETAILS

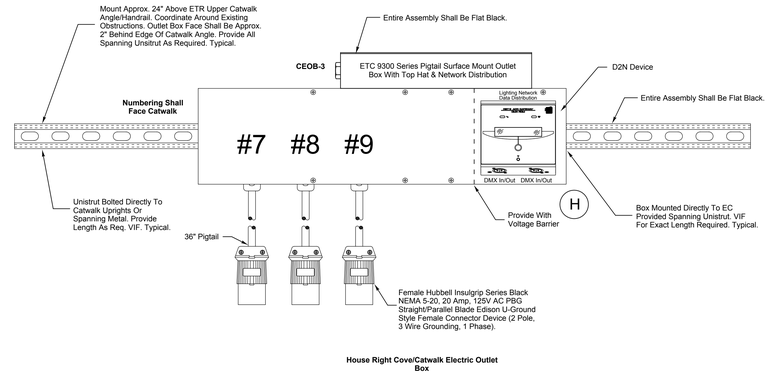
Scale: 1/2" = 1'



House Left Cove/Catwalk Electric Outlet Box



House Center Cove/Catwalk Electric Outlet Box



House Right Cove/Catwalk Electric Outlet Box

NOTE:

For All Outlet Boxes.

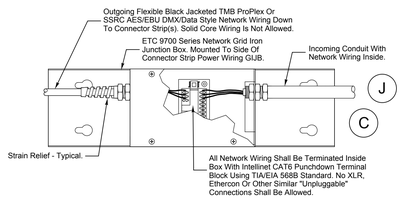
Provide All Connector Labels As Indicated.

All Outlet Box Circuits Shall Be Labeled With Standard 2" Tall, Die-Cut, White-On-Black Stick-On Lettering.

2 COVE/CATWALK AREA OUTLET BOX DETAILS

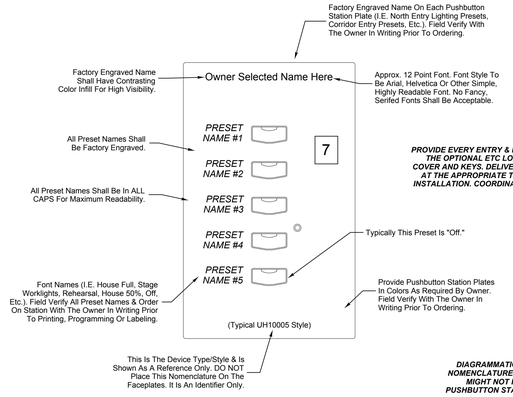
SCALE: 3" = 1'

NOTE: Install All Network Grid Iron Junction Boxes So That, If They Are Oriented Vertically, There Are No Unused Input/Output Connectors Facing Up (This Is In Order To Keep Dust Out Of Units, Connectors, Etc.). Provide Appropriate Covers/Caps For All Unused Input/Output Connectors. Do Not Leave Unused Strain Relief Whip In Place. Remove And Cap As Needed.

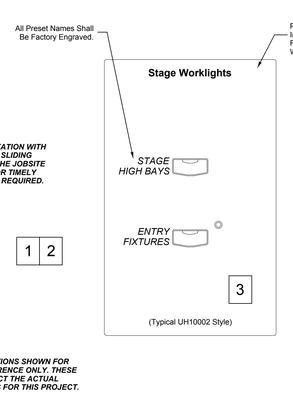


3 NETWORK GRID IRON JUNCTION BOX DETAIL

SCALE: NONE



PROVIDE EVERY ENTRY & LCD STATION WITH THE OPTIONAL ETC LOCKING SLIDING COVER AND KEYS. DELIVER TO THE JOBSITE AT THE APPROPRIATE TIME FOR TIMELY INSTALLATION. COORDINATE AS REQUIRED.



DIAGRAMMATIC STATIONS SHOWN FOR NOMENCLATURE REFERENCE ONLY. THESE MIGHT NOT REFLECT THE ACTUAL PUSHBUTTON STATIONS FOR THIS PROJECT.

ARCHITECTURAL CONTROLS PROGRAMMING REQUIREMENTS (PUSHBUTTON/FADER STATIONS) :

1. Stage level stations shall control the stage worklight circuits ONLY. The pushbutton stations are not to control any other lights. One push of the pushbutton shall toggle lights on, and a second push shall toggle them off.
2. House & Balcony stations shall control various houselighting preset "looks" (i.e. walk-in, rehearsal, balcony only, main floor only, underbalcony only). The preset "looks" (via the preset buttons) shall be as directed by the owner or owner's representative. The last button shall be OFF.

[All pushbutton stations shall be programmed so that, when no presets are selected and no lights are on, there is an LED or button on each station that is lit so that the stations are readily visible in the dark. All pushbutton stations and LCD screens MUST have the capability to recall ANY preset look the owner wishes, including conventional theatrical, houselighting and LED color mixing fixtures. All pushbutton stations shall be programmed so that presets are triggered in a mutually exclusive hierarchy (turning the previous preset off as it engages the selected preset). NO pile-on style presets shall be allowed. All faders shall be programmed per owner's instructions (typically faders control groups of similar fixtures and/or fixtures in similar locations as a group).].

Program the architectural lighting system so that, once ANY preset is engaged or recalled, ALL system relay channels in ALL dimmer racks are powered ON.

Typical presets are as follows - some may not apply to all projects. Program each station with presets as required by owner, which may be different from station to station. Obtain actual settings from owner if these are not desired. Program all presets into P-LCD controls:

1. Main Floor 100%
2. Main Floor 50%
3. Stage Worklights
4. Walk-In
5. Video
6. Stage Blues
7. Cleaning
8. Rehearsal
9. Catwalk Worklights
10. Balcony 100%
11. Balcony 50%
12. + (owner selected)

4 PUSHBUTTON STATION LABELING & RELATED DETAILS

SCALE: NONE

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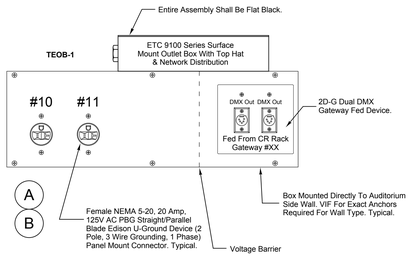
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THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

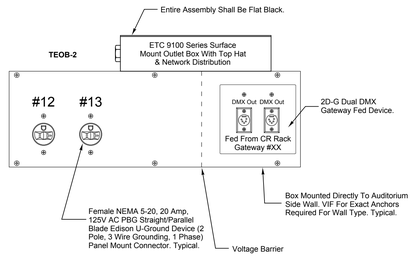
SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TL3.1

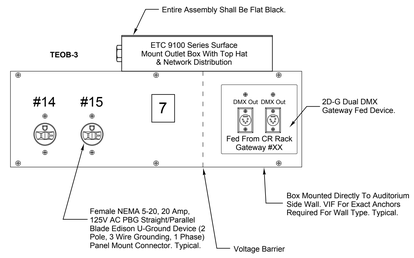
PROJECT NO: 2012-254



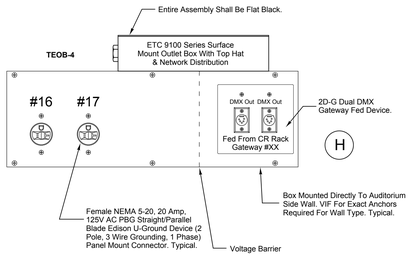
House Left Front Tormentor Outlet Box



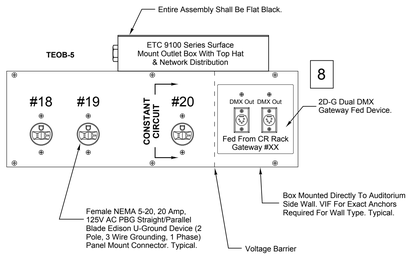
House Right Front Tormentor Outlet Box



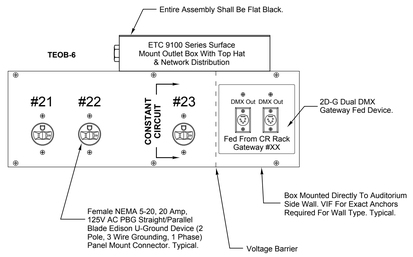
House Left Middle Tormentor Outlet Box



House Right Middle Tormentor Outlet Box



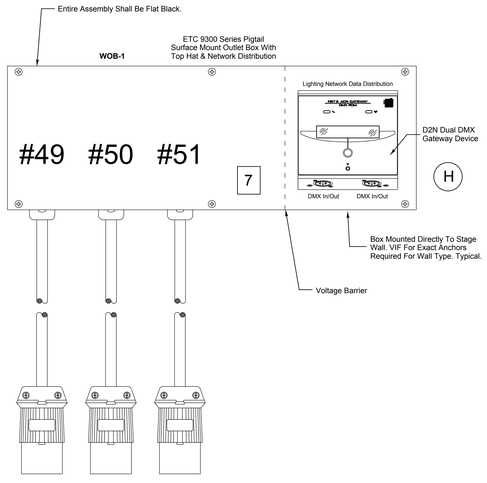
House Left Rear Tormentor Outlet Box



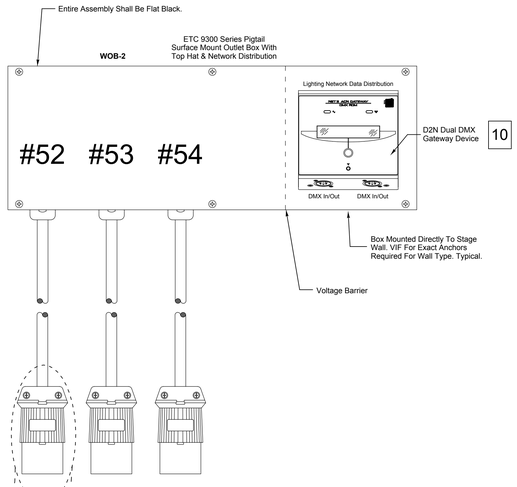
House Right Rear Tormentor Outlet Box

1 TORMENTOR OUTLET BOX DETAILS

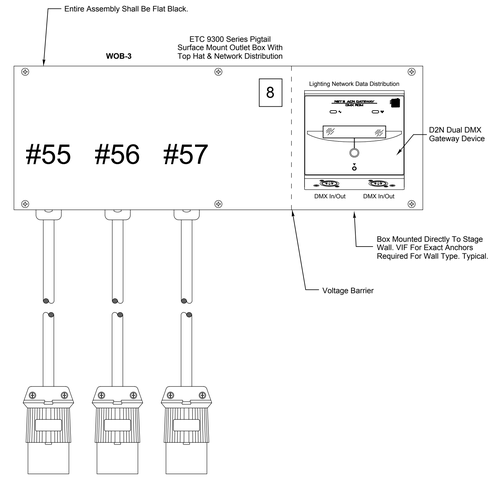
SCALE: 3" = 1'



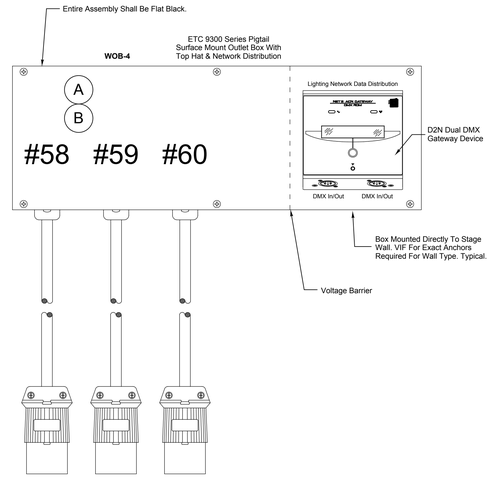
Downstage Right Outlet Box



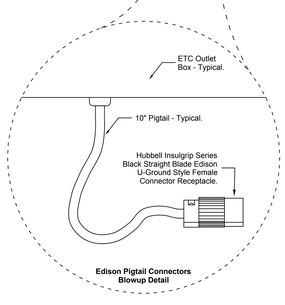
Downstage Left Outlet Box



Upstage Right Outlet Box



Upstage Left Outlet Box



Edison Pigtail Connectors Blowup Detail

NOTE:

For All Outlet Boxes.

Provide All Connector Labels As Indicated.

All Outlet Box Circuits Shall Be Labeled With Standard 2" Tall, Die-Cut, White-On-Black Stick-On Lettering.

2 WALL BOX DETAILS

Scale: 5" = 1"

REFER TO THE TL4.1 SERIES DRAWINGS FOR ALL LIGHTING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TL SERIES DRAWINGS.

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THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-004-027, 07-06-00-01-0-034-028

BR-TL3.2

PROJECT NO: 2012-254

<ELMIRA BROADWAY MS> - RELAY RACK #1 PANEL/CIRCUIT SCHEDULE

Description	Rack	Circuit #	Breaker Size	Terminated To	Via GIJB-X	Running Total Circuit #	Breaker Poles	Type
Catwalk/Cove Circuit	RR-1	1	20 Amp	House Left Catwalk Outlet Box (CEOB-1)	GIJB-1	1	1	Relay
Catwalk/Cove Circuit	RR-1	2	20 Amp	House Left CEOB-1	GIJB-1	2	1	Relay
Catwalk/Cove Circuit	RR-1	3	20 Amp	House Left CEOB-1	GIJB-1	3	1	Relay
Catwalk/Cove Circuit	RR-1	4	20 Amp	House Center CEOB-2	GIJB-1	4	1	Relay
Catwalk/Cove Circuit	RR-1	5	20 Amp	House Center CEOB-2	GIJB-1	5	1	Relay
Catwalk/Cove Circuit	RR-1	6	20 Amp	House Center CEOB-2	GIJB-1	6	1	Constant
Catwalk/Cove Circuit	RR-1	7	20 Amp	House Right CEOB-3	GIJB-1	7	1	Relay
Catwalk/Cove Circuit	RR-1	8	20 Amp	House Right CEOB-3	GIJB-1	8	1	Relay
Catwalk/Cove Circuit	RR-1	9	20 Amp	House Right CEOB-3	GIJB-1	9	1	Relay
Tormentor Circuit	RR-1	10	20 Amp	House Left Front Tormentor TEOB-1	GIJB-1	10	1	Relay
Tormentor Circuit	RR-1	11	20 Amp	House Left Front Tormentor TEOB-1	GIJB-1	11	1	Relay
Tormentor Circuit	RR-1	12	20 Amp	House Right Front Tormentor TEOB-2	GIJB-1	12	1	Relay
Tormentor Circuit	RR-1	13	20 Amp	House Right Front Tormentor TEOB-2	GIJB-1	13	1	Relay
Tormentor Circuit	RR-1	14	20 Amp	House Left Center Tormentor TEOB-3	GIJB-1	14	1	Relay
Tormentor Circuit	RR-1	15	20 Amp	House Left Center Tormentor TEOB-3	GIJB-1	15	1	Relay
Tormentor Circuit	RR-1	16	20 Amp	House Right Center Tormentor TEOB-4	GIJB-1	16	1	Relay
Tormentor Circuit	RR-1	17	20 Amp	House Right Center Tormentor TEOB-4	GIJB-1	17	1	Relay
Tormentor Circuit	RR-1	18	20 Amp	House Left Rear Tormentor TEOB-5	GIJB-1	18	1	Relay
Tormentor Circuit	RR-1	19	20 Amp	House Left Rear Tormentor TEOB-5	GIJB-1	19	1	Relay
Tormentor Circuit	RR-1	20	20 Amp	House Left Rear Tormentor TEOB-5	GIJB-1	20	1	Constant
Tormentor Circuit	RR-1	21	20 Amp	House Right Rear Tormentor TEOB-6	GIJB-1	21	1	Relay
Tormentor Circuit	RR-1	22	20 Amp	House Right Rear Tormentor TEOB-6	GIJB-1	22	1	Relay
Tormentor Circuit	RR-1	23	20 Amp	House Right Rear Tormentor TEOB-6	GIJB-1	23	1	Constant
Stage Electric Circuit	RR-1	24	20 Amp	First Stage Electric Connector Strip (CS)	GIJB-2	24	1	Relay
Stage Electric Circuit	RR-1	25	20 Amp	First Stage Electric CS	GIJB-2	25	1	Relay
Stage Electric Circuit	RR-1	26	20 Amp	First Stage Electric CS	GIJB-2	26	1	Relay
Stage Electric Circuit	RR-1	27	20 Amp	First Stage Electric CS	GIJB-2	27	1	Relay
Stage Electric Circuit	RR-1	28	20 Amp	First Stage Electric CS	GIJB-2	28	1	Relay
Stage Electric Circuit	RR-1	29	20 Amp	First Stage Electric CS	GIJB-2	29	1	Constant
Stage Electric Circuit	RR-1	30	20 Amp	Second Stage Electric CS	GIJB-3	30	1	Relay
Stage Electric Circuit	RR-1	31	20 Amp	Second Stage Electric CS	GIJB-3	31	1	Relay
Stage Electric Circuit	RR-1	32	20 Amp	Second Stage Electric CS	GIJB-3	32	1	Relay
Stage Electric Circuit	RR-1	33	20 Amp	Second Stage Electric CS	GIJB-3	33	1	Relay
Stage Electric Circuit	RR-1	34	20 Amp	Second Stage Electric CS	GIJB-3	34	1	Relay
Stage Electric Circuit	RR-1	35	20 Amp	Second Stage Electric CS	GIJB-3	35	1	Constant
Stage Electric Circuit	RR-1	36	20 Amp	Third Stage Electric CS	GIJB-4	36	1	Relay
Stage Electric Circuit	RR-1	37	20 Amp	Third Stage Electric CS	GIJB-4	37	1	Relay
Stage Electric Circuit	RR-1	38	20 Amp	Third Stage Electric CS	GIJB-4	38	1	Relay
Stage Electric Circuit	RR-1	39	20 Amp	Third Stage Electric CS	GIJB-4	39	1	Relay
Stage Electric Circuit	RR-1	40	20 Amp	Third Stage Electric CS	GIJB-4	40	1	Relay
Stage Electric Circuit	RR-1	41	20 Amp	Third Stage Electric CS	GIJB-4	41	1	Constant
Stage Electric Circuit	RR-1	42	20 Amp	Fourth Stage Electric CS	GIJB-5	42	1	Relay
Stage Electric Circuit	RR-1	43	20 Amp	Fourth Stage Electric CS	GIJB-5	43	1	Relay
Stage Electric Circuit	RR-1	44	20 Amp	Fourth Stage Electric CS	GIJB-5	44	1	Relay
Stage Electric Circuit	RR-1	45	20 Amp	Fourth Stage Electric CS	GIJB-5	45	1	Relay
Stage Electric Circuit	RR-1	46	20 Amp	Fourth Stage Electric CS	GIJB-5	46	1	Relay
Stage Electric Circuit	RR-1	47	20 Amp	Fourth Stage Electric CS	GIJB-5	47	1	Constant
Followspot Power Circuit	RR-1	48	20 Amp	Single Edison Outlet	N/A	48	1	Constant

<ELMIRA BROADWAY MS> - RELAY RACK #2 PANEL/CIRCUIT SCHEDULE

Description	Rack	Circuit #	Breaker Size	Terminated To	Via GIJB-X	Running Total Circuit #	Breaker Poles	Type
Stage Circuit	RR-2	1	20 Amp	Downstage Right Wall Outlet Box (WOB-1)	N/A	49	1	Relay
Stage Circuit	RR-2	2	20 Amp	Downstage Right WOB-1	N/A	50	1	Relay
Stage Circuit	RR-2	3	20 Amp	Downstage Right WOB-1	N/A	51	1	Constant
Stage Circuit	RR-2	4	20 Amp	Downstage Left WOB-2	N/A	52	1	Relay
Stage Circuit	RR-2	5	20 Amp	Downstage Left WOB-2	N/A	53	1	Relay
Stage Circuit	RR-2	6	20 Amp	Downstage Left WOB-2	N/A	54	1	Constant
Stage Circuit	RR-2	7	20 Amp	Upstage Right WOB-3	N/A	55	1	Relay
Stage Circuit	RR-2	8	20 Amp	Upstage Right WOB-3	N/A	56	1	Relay
Stage Circuit	RR-2	9	20 Amp	Upstage Right WOB-3	N/A	57	1	Constant
Stage Circuit	RR-2	10	20 Amp	Upstage Left WOB-4	N/A	58	1	Relay
Stage Circuit	RR-2	11	20 Amp	Upstage Left WOB-4	N/A	59	1	Relay
Stage Circuit	RR-2	12	20 Amp	Upstage Left WOB-4	N/A	60	1	Constant
Index Lighting Circuit	RR-2	13	20 Amp	Directly Into SSRC Dimmer Box	N/A	61	1	Constant
CR Rack Circuit	RR-2	14	20 Amp	Quad Outlet Box in Rack Backpan	N/A	62	1	Constant
CR Rack Circuit	RR-2	15	20 Amp	Quad Outlet Box in Rack Backpan	N/A	63	1	Constant
DEBC Circuit	RR-2	16	20 Amp	Directly Into Box	N/A	64	1	Constant
Pit Lighting Circuit	RR-2	17	20 Amp	Duplex Outlet	N/A	65	1	Constant
Stage Worklighting Circuit	RR-2	18	20 Amp	Various Single Outlet Devices	N/A	66	1	Relay
Stage Worklighting Circuit	RR-2	19	20 Amp	Various Single Outlet Devices	N/A	67	1	Relay
Stage Worklighting Circuit	RR-2	20	20 Amp	Various Single Outlet Devices	N/A	68	1	Relay
Stage Worklighting Circuit	RR-2	21	20 Amp	Various Single Outlet Devices	N/A	69	1	Relay
Houselighting Circuit	RR-2	22	20 Amp	House Left Front Corridor Fixtures	N/A	70	1	Relay
Houselighting Circuit	RR-2	23	20 Amp	House Right Front Corridor Fixtures	N/A	71	1	Relay
Spare Circuit	RR-2	24	20 Amp	Not Landed	N/A	72	1	Relay

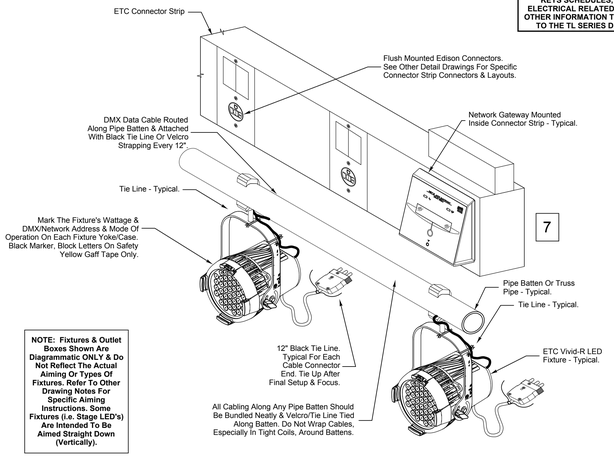
7

A B

<ELMIRA BROADWAY MS> - DIMMER RACK #1 PANEL/CIRCUIT SCHEDULE

Description	Rack	Circuit #	Breaker Size	Terminated To	Via GIJB-X	Module Type	Running Total Circuit #	Breaker Poles	Type
Recessed Can Houselighting Circuit	DR-1	1	20 Amp	Directly Into Houselighting Fixtures - Row 1	GIJB-1	D20E	73	1	Dimmed
Recessed Can Houselighting Circuit	DR-1	2	20 Amp	Directly Into Houselighting Fixtures - Row 2	GIJB-1	D20E	74	1	Dimmed
Recessed Can Houselighting Circuit	DR-1	3	20 Amp	Directly Into Houselighting Fixtures - Row 3	GIJB-1	D20E	75	1	Dimmed
Recessed Can Houselighting Circuit	DR-1	4	20 Amp	Directly Into Houselighting Fixtures - Row 4	GIJB-1	D20E	76	1	Dimmed
Recessed Can Houselighting Circuit	DR-1	5	20 Amp	Directly Into Houselighting Fixtures - Row 5	GIJB-1	D20E	77	1	Dimmed
Recessed Can Houselighting Circuit	DR-1	6	20 Amp	Directly Into Houselighting Fixtures - Row 6	GIJB-1	D20E	78	1	Dimmed
Recessed Can Houselighting Circuit	DR-1	7	20 Amp	Directly Into Houselighting Fixtures - Row 7	GIJB-1	D20E	79	1	Dimmed
Recessed Can Houselighting Circuit	DR-1	8	20 Amp	Directly Into Houselighting Fixtures - Chair Lift Area	N/A	D20E	80	1	Dimmed
Spare Circuit (For Future Use)	DR-1	9	20 Amp	Unterminated/Not Landed	N/A	D20E	81	1	Dimmed
Spare Circuit (For Future Use)	DR-1	10	20 Amp	Unterminated/Not Landed	N/A	D20E	82	1	Dimmed
Spare Circuit (For Future Use)	DR-1	11	20 Amp	Unterminated/Not Landed	N/A	D20E	83	1	Dimmed
Spare Circuit (For Future Use)	DR-1	12	20 Amp	Unterminated/Not Landed	N/A	D20E	84	1	Dimmed

REFER TO THE TL4.1 SERIES DRAWINGS FOR ALL LIGHTING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TL SERIES DRAWINGS.



NOTE: Fixtures & Outlet Boxes Shown Are Diagrammatic ONLY & Do Not Reflect The Actual Aiming Or Types Of Fixtures. Refer To Other Drawing Notes For Specific Aiming Instructions. Some Fixtures (i.e. Stage LED's) Are Intended To Be Aimed Straight Down (Vertically).

NOTE: The Intent Is For All Fixture & Data Cabling To Be Managed Well And Tied Up To The Battens In A Neat And Orderly Fashion (Except Where Located In SSRC Cable Caddy System).

All Cords/Cables Shall Have An Approx. 24" Long Piece Of Black Tie Line Attached Near The End Of The Cord. After Final Fixture Setup & Field Focus With The Owner, The Contractor Shall Tie All Fixture Power Cords And DMX/Data/Network Cables To The Related Pipe Battens Pipes With Tie Line.

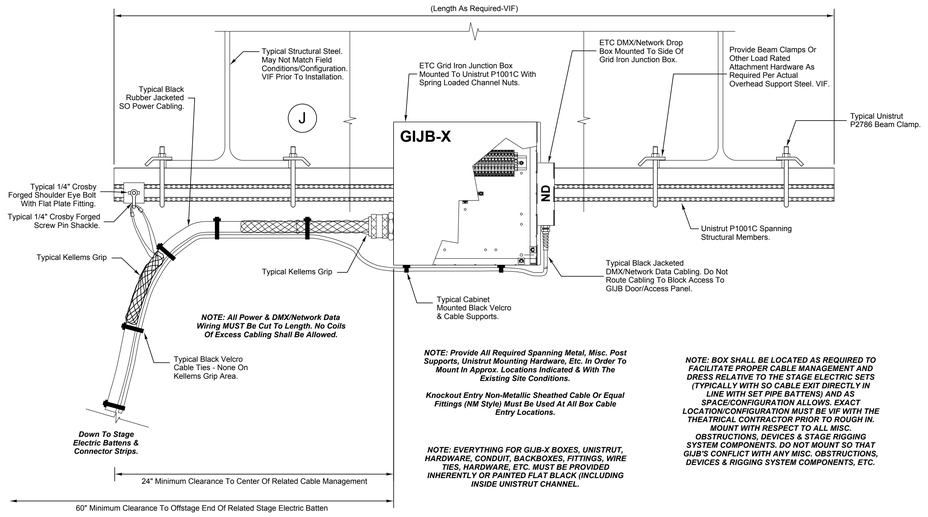
No Cabling Shall Be Allowed To Swag Below Or Loosely Between Fixtures Or To Connector Strip Outlets. All Cabling Shall Be Neatly Dressed & Tied To Pipe Battens In Such A Way So As Not To Become Tangled Or Caught In Any Related Or Adjacent Mechanisms.

Any Tie Wraps Used Shall Be Black & Shall Be Cut Off Flush With No Protruding Ends.

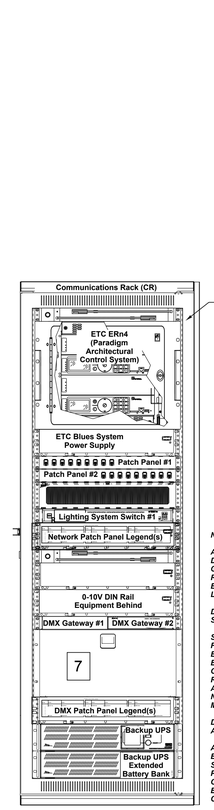
All Cabling Run In SSRC Cable Caddy System Shall Be Run In Truss Hooks & Bundled Together Neatly.

1 THEATRICAL LIGHTING SYSTEM RELAY PANEL/DIMMER RACK CIRCUIT SCHEDULES
Scale: NONE

2 CABLE MANAGEMENT DETAIL
Scale: NONE



3 GRID IRON JUNCTION BOX MOUNTING DETAIL
SCALE: 2" = 1'



Rack Equipment Labeling Intents. All Equipment Is To Be Labeled In English As To What It Is And Similar To What Is Shown (I.E. ETC ERn4 Architectural Control System, ETC Blues Power Supply, Etc.). Do Not Use Some Keyed Or Obscure Naming Code Or Other Nomenclatures. It Is Acceptable To Use Commonly Understood Nomenclature Abbreviations. Typical.

NOTE:

All Naming Nomenclature Shown Is Diagrammatic & Intended Only As A Guide To The Type Of Information Required For Each Piece Of Equipment. Tailor Device Labeling Per Location & Type.

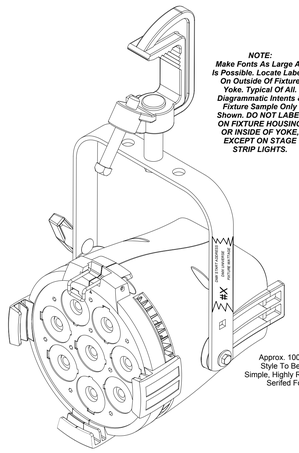
Do Not Block Any Vents Or Cover Any Screens, Screws, Etc. With Labels.

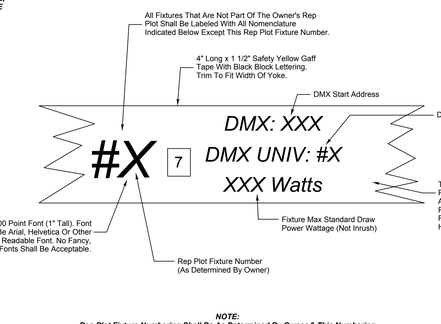
Size Labels/Fonts To Fit Equipment. Font Size Should Large Enough To Be Easily Readable When Looking At Equipment From A Standard Distance Of Approx. 4'. (E.G. "Communications Rack" Shall Be 60 Pt. Font Minimum; All Other Rack Equipment Nomenclature Shall Be 32 Pt. Font Minimum).

Do Not Label Unimportant Items Such As Blank Or Vent Panels.

All Labels Shall Be White-On-Black Or Black-On-White Or Similar Self-Adhesive. Labels Must Not Easily Peel Off Over Time. Labels That Peel Off Within The First 12 Months Shall Be Completely Replaced By The Contractor At His Own Cost.

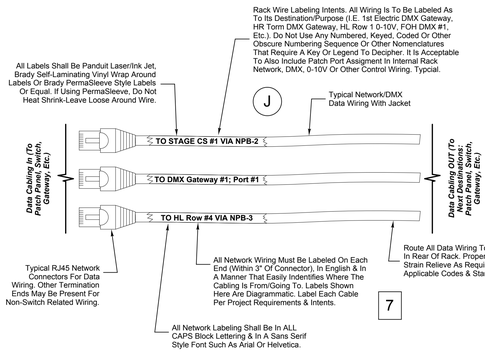
5 RACK & DEVICE LABELING DETAILS
SCALE: NOINE





NOTE:
Rep Plot Fixture Numbering Shall Be As Determined By Owner & This Numbering Shall Match On Fixtures & Battens. Do Not Restart Numbering Based Upon Installation Locations. Provide A Single Sequence Of Ascending Numbers For All Rep Plot Fixtures. Provide The Owner With (2) Legal Sized, Laminated Copies Of Rep Plot Fixtures With Numbering, Locations, DMX Start Address, DMX Universe & Wattage For Reference.

4 FIXTURE LABELING INTENTS DETAIL
SCALE: NONE



6 DMX/NETWORK DATA WIRING LABELING DETAIL
SCALE: NONE

NOTES:

All DMX512 Data Cabling Must Be Installed Per ANSI E1.11 - 2008 (Or Current Revision). All Network/DMX Data Cabling Must Meet The ANSI/TIA/EIA-485 Standard. Network/DMX Daisy Chain Topography & Signal Integrity Must Be Maintained Throughout. No Other Wiring Topographies Shall Be Allowed.

Properly Support & Strain Relieve All Network/DMX Wiring Inside Rack(s), Terminators, Etc. To Rack Lacing Bars. Provide Data Wiring Service Loop As Indicated (12" Minimum).

DMX Is Understood To Be An Abbreviation That Refers To The DMX512 Wiring Standard.

All Wiring, Terminations, Etc. Shall Be DMX512/RDM Compliant. Network Wiring Shall Be sACN And Compliant With All Related Standards. Follow All Manufacturer Recommended Installation Instructions.

Labels Shall Not Contain Coded Information Requiring A Key To Decipher.

Wiring Labels Shall Meet The Five Major Categories Of Requirements Of ANSI/TIA Labeling Standards As Follows:

1. Permanent: Labeling Must Be Permanently Placed At Both Ends Of Every Cable.
2. Identification: Both Ends Of Every Cable Must Be Labeled To Identify Its Usage.
3. Terminations Points: The Terminations Points Of The Cable Must Be Identified On The Labels.
4. Legibility: Every Label Must Be Legible & In English (Typically This Infers A Machine Printed Label).
5. Records: The Information On Each Label Must Match Those Shown On As-Built Records.

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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2200134644-1

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CHECKED BY:	SPJ
DATE:	07/24/2026
PHASE:	CD

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#	DATE:	REVISION:
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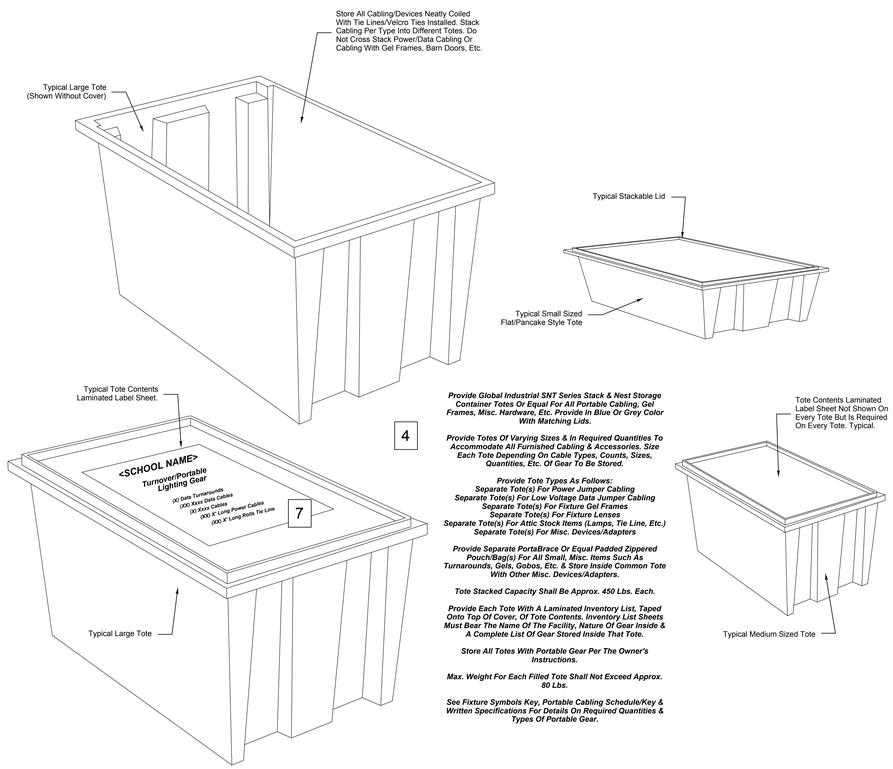
LIGHTSWITCH DESIGN GROUP, LLC
LIGHTING CONSULTANTS IN THEATRICAL DESIGN
1547 PALISADE AVENUE - FORT LEE, NJ 07024
(201) 461-0900 - FAX (201) 461-0044

THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TL3.3

PROJECT NO: 2012-254



Provide Global Industrial SNT Series Stack & Nest Storage Container Totes Or Equal For All Portable Cabling, Gel Frames, Misc. Hardware, Etc. Provide In Blue Or Grey Color With Matching Lids.

Provide Totes Of Varying Sizes & In Required Quantities To Accommodate All Furnished Cabling & Accessories. Size Each Tote Depending On Cable Types, Counts, Sizes, Quantities, Etc. Of Gear To Be Stored.

Provide Tote Types As Follows:
Separate Tote(s) For Power Jumper Cabling
Separate Tote(s) For Low Voltage Data Jumper Cabling
Separate Tote(s) For Fixture Gel Frames
Separate Tote(s) For Fixture Lenses
Separate Tote(s) For Attic Stock Items (Lamps, Tie Line, Etc.)
Separate Tote(s) For Misc. Devices/Adapters

Provide Separate PortaBrace Or Equal Padded Zippered Pouch/Bag(s) For All Small, Misc. Items Such As Turnarounds, Gels, Gobos, Etc. & Store Inside Common Tote With Other Misc. Devices/Adapters.

Tote Stacked Capacity Shall Be Approx. 450 Lbs. Each.

Provide Each Tote With A Laminated Inventory List, Taped Onto Top Of Cover, Of Tote Contents. Inventory List Sheets Must Bear The Name Of The Facility, Nature Of Gear Inside & A Complete List Of Gear Stored Inside That Tote.

Store All Totes With Portable Gear Per The Owner's Instructions.

Max. Weight For Each Filled Tote Shall Not Exceed Approx. 80 Lbs.

See Fixture Symbols Key, Portable Cabling Schedule/Key & Written Specifications For Details On Required Quantities & Types Of Portable Gear.

1 PORTABLE CABLING TOTE SYSTEM DETAIL
SCALE: NONE

REFER TO THE TL4.1 SERIES DRAWINGS FOR ALL LIGHTING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TL SERIES DRAWINGS.

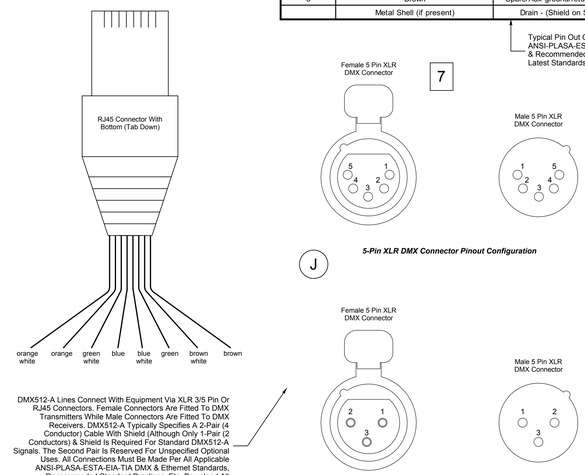
5-Pin XLR DMX Data Pin Out			
Pin	Wire (EIA-485)	Signal	Notes
1	Shield	Ground/return/0V - DMX 1	Primary Data Link
2	Inner Conductor (typically black)	Data Complement (-, inverted) - DMX 1	Primary Data Link
3	Inner Conductor (typically white)	Data true (+, non inverted) - DMX 1	Primary Data Link
4	Inner Conductor (typically green)	Spare/Aux data Complement (-, inverted) - DMX 2	Optional Secondary Data Link
5	Inner Conductor (typically red)	Spare/Aux data true (+, non inverted) - DMX 2	Optional Secondary Data Link

5-Pin XLR DMX Data Pin Out			
Pin	Wire (Ethernet Cable)	Signal	Notes
1	White/Brown & Brown (connected together)	Ground/return/0V - DMX 1	Primary Data Link
2	Orange	Data Complement (-, inverted) - DMX 1	Primary Data Link
3	White/Orange	Data true (+, non inverted) - DMX 1	Primary Data Link
4	Green	Spare/Aux data Complement (-, inverted) - DMX 2	Optional Secondary Data Link
5	White/Green	Spare/Aux data true (+, non inverted) - DMX 2	Optional Secondary Data Link

3-Pin XLR DMX Data Pin Out			
Pin	Wire (EIA-485)	Signal	Notes
1	Shield	Ground/return/0V - DMX 1	Primary Data Link
2	Inner Conductor (typically black)	Data Complement (-, inverted) - DMX 1	Primary Data Link
3	Inner Conductor (typically white)	Data true (+, non inverted) - DMX 1	Primary Data Link

RJ45 DMX Data Pin Out			
Pin	Wire (Ethernet Cable)	Signal	Notes
1	Orange/White	Data true (+, non inverted) - DMX 1	Primary Data Link
2	Orange	Data Complement (-, inverted) - DMX 1	Primary Data Link
3	Green/White	Spare/Aux data true (+, non inverted) - DMX 2	Optional Secondary Data Link
4	Blue	Not Used	N/A
5	Blue/White	Not Used	N/A
6	Green	Spare/Aux data Complement (-, inverted) - DMX 2	Optional Secondary Data Link
7	Brown/White	Ground/return/0V/common - DMX 1	Primary Data Link
8	Brown	Spare/Aux ground/return/0V/common - DMX 2	Optional Secondary Data Link
	Metal Shell (if present)	Drain - (Shield on STP or FTP cables)	

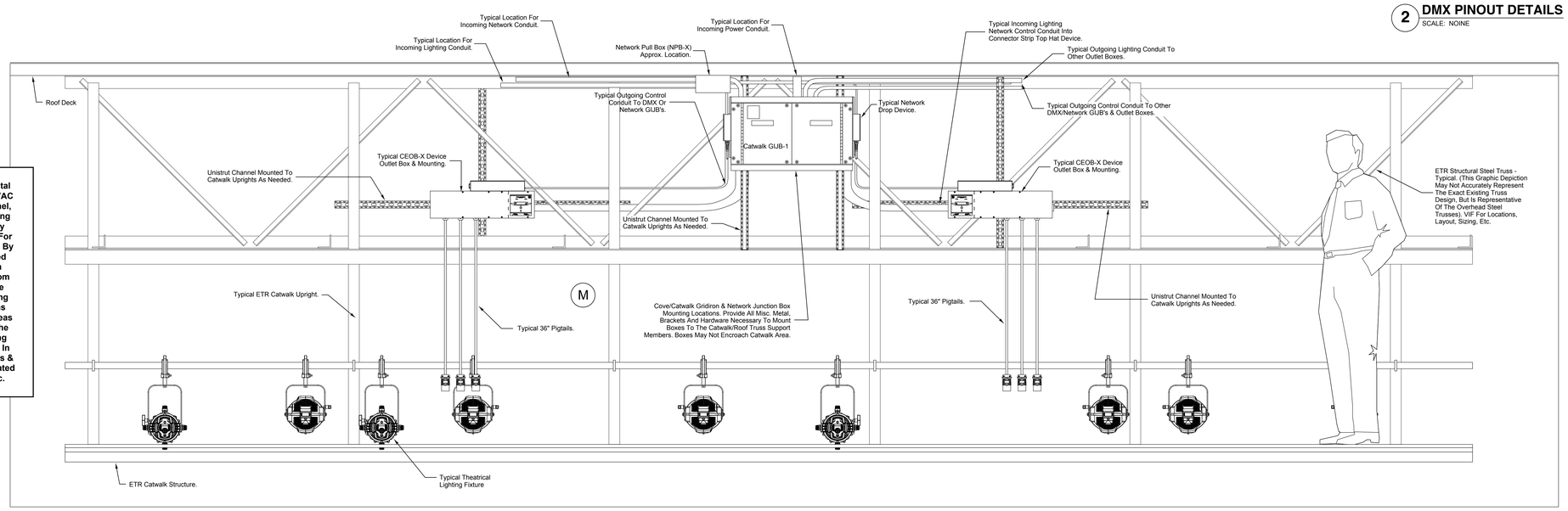
Typical Pin Out Charts Per Published ANSI-PLASA-ESTA-EIA-TIA Data/DMX Standards & Recommended Termination Practices. Refer To Latest Standards For Exact Info.



5-Pin XLR DMX Connector Pinout Configuration

3-Pin XLR DMX Connector Pinout Configuration

2 DMX PINOUT DETAILS
SCALE: NOINE



3 CATWALK COORDINATION DETAILS
Scale: 1" = 1'

NOTE: There Shall Be No Horizontal Conduit Runs, Sprinkler Pipes, HVAC Ducting, Roof Drains, Strut Channel, Threaded Rod, Hanger Wire, Ceiling Supports, Misc. Supports Or Any Other Related Framing/Hardware For Any Devices Provided Or Installed By Any Trade Allowed To Be Located Below 6' - 0" AFF Of Catwalk (In Catwalk Envelope Or Below Bottom Of Trusses) On The Front Of The Catwalk Or In The Catwalk Walking Area Except Those Specific Items Noted On This Drawing. These Areas & The Area Directly In Front Of The Catwalk & Below The Main Ceiling Must Be Kept Free Of All Devices In Order To Provide Adequate Access & Space For Theatrical Fixtures, Related Accessories, Fixture Aiming, Etc.

NOTE: THIS ELEVATION VIEW DRAWING IS DIAGRAMMATIC IN NATURE AND MAY NOT REFLECT THE ACTUAL LAYOUT OR CONFIGURATION OF THIS FACILITY'S CATWALK AREA; HOWEVER, IT IS UNDERSTOOD TO SET FORTH MINIMUM STANDARDS OR DEVICE PLACEMENT & CLEARANCES, ETC. AS IT RELATES TO THE CATWALK LIGHTING SYSTEM DEVICES AND THE PIPE BATTENS, ETC. THIS APPLIES TO ALL RELATED CONTRACTORS.

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CHECKED BY: SPJ
DATE: 07/24/2026
PHASE: CD

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THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TL3.4

PROJECT NO: 2012-254

Program The LCD Touchscreens & The ETC Paradigm Control System To Incorporate All Relays, Dimmers, Fixtures, Etc. Into The Overall System Architecture. Provide Screens, Interface Buttons, Etc. As Directed By Owner. Screens Included Here Are Understood To Be A Minimum Requirements Guide As To Intents Of The Overall System.

NOTES: Touchscreen Stations/Buttons Shown Here As Well As The Buttons Shown, Naming, Etc. Are Diagrammatic In Nature. Work Closely With The Owner In Order To Customize The Exact Screen Layouts, Controls, Selections, Naming, Quantity Of Screens, Etc. As Is Desired By Owner Personnel. Obtain Owner Direction In Writing Prior To Programming.

All Touchscreen Buttons Shall Change Their State So That, When Touched/Selected, Their Look Changes So That The User Knows Which Button/Function Has Been Selected. Upon Deselection They Shall Return To Their Previous State/Look.

NOTES:

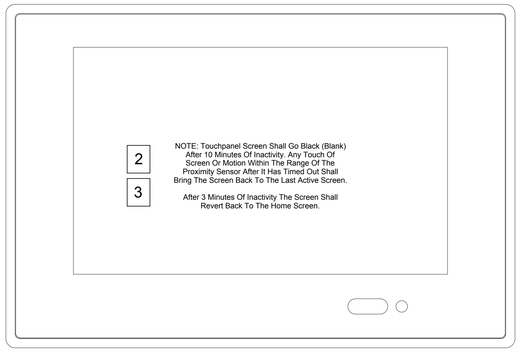
Coordinate The Actual Font & Button/Fader Sizes With Available Real Estate On The Touchscreen & With Owner's Preferences. Provide All Buttons & Functionality As Shown Here And Others As Is Deemed Necessary Or Helpful For The Owner To Have And/Or As Requested By The Owner.

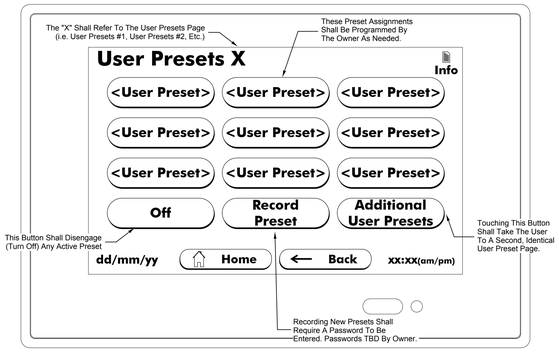
ARCHITECTURAL CONTROLS PROGRAMMING REQUIREMENTS (LCD TOUCHSCREENS):

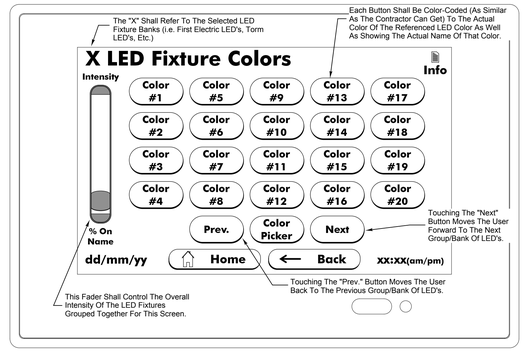
1. All access to the LCD programming functions, preset changes, clock functions, recording capabilities, etc. shall be password protected.
2.Program the architectural control system LCD displays with a submasters page, rehearsal light preset, choral group preset, several houselighting presets, stage worklight preset, stage wash preset, colored stage wash preset(s) and other presets as determined by the owner or owner's representative and as required in the written specifications. LCD displays shall be programmed so that users without a passcode are unable to access any incandescent houselighting fixtures except turning any included day-to-day fluorescent/LED houselight, catwalk worklight and/or stage & wing worklight fixtures on or off.
3. Create & setup at least 20 preset buttons on pages (10 per page and in addition to other presets as called for in the specifications) and there must be a record button on each page. The intent of this is so that the owner can easily, with password access, save/record "looks" to presets quickly & easily into the architectural control system.
4. A secondary level of password protection shall be setup so that all other LCD and pushbutton stations can be locked out from functioning or altering the lights during an event. The intent of this feature is so that accidental activation of unwanted lighting fixtures during a performance is avoided. Program the astrological clock to reset all LCD and pushbutton station functionality (and deactivate lockout) at midnight of every day - 365 days per year.
5. LCD touchscreens shall be located within the system topology in such a way as to allow snapshotting functions from the lighting control console into the architectural control system LCD and pushbutton units. All LCD touchscreens shall be mirror images of each other (both containing the same screens, information, etc.).
6. LCD touchscreens shall recall all presets and shall incorporate fader and button pages, etc. See above and specifications for more information on LCD programming requirements.
7. Program the LCD screens with basic "color chooser" pages for the LED fixtures (arranged by zone) so that the owner may quickly and easily pick one of 20 colors for any bank of LED's. Color chooser pages shall visually show thumbnails of colors (similar to the output color of the LED fixtures) and allow the user to touch a colored button in order to switch all of the LED's in that bank to that color.
8. All fixture names, DMX addresses, function, etc. shall be exactly as described on each fixture. Provide matching names, addresses, function, etc. on each fixture with durable labels with large block lettering.
9. Program ONE button in each studio that releases/engages Paradigm control to the portable studio LCD touchscreen. Provide a "virtual" button on each LCD touchscreen that mimics these selections.
10. Program and set up the 18" LCD screens so that they graphically show each fixture on the grid along with its name/short description. Touching any fixture shall bring up a floating window where the operator can select from preset color temperatures and/or colors and also intensity of that fixture. All fixtures shall be initially set at and default to a 3,200K color temperature.

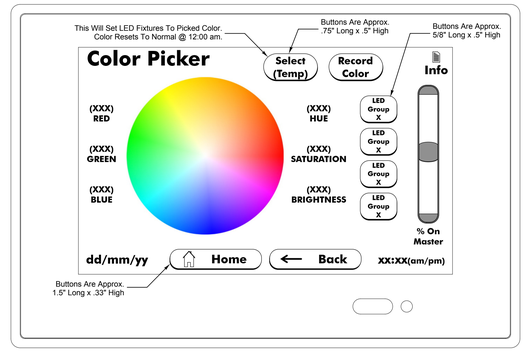
[LCD screens and/or other pushbutton controls shall have no limitations as to which fixtures or DMX universes they can access and/or control. I.E. they must be able to recall whatever preset looks the owner wishes them to recall]

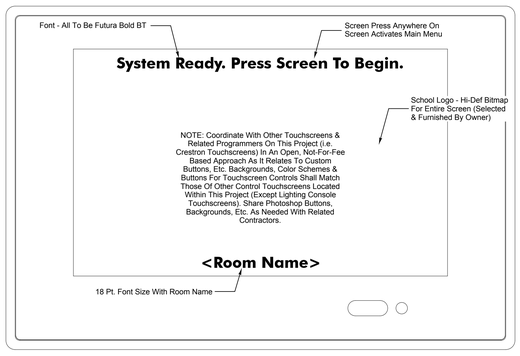
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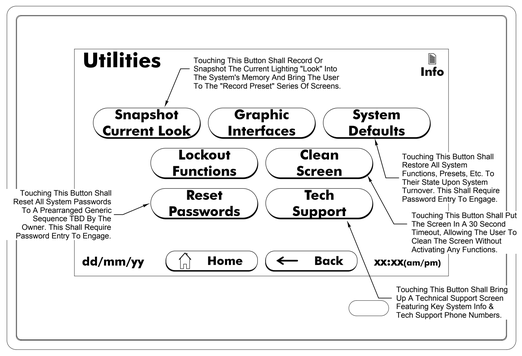


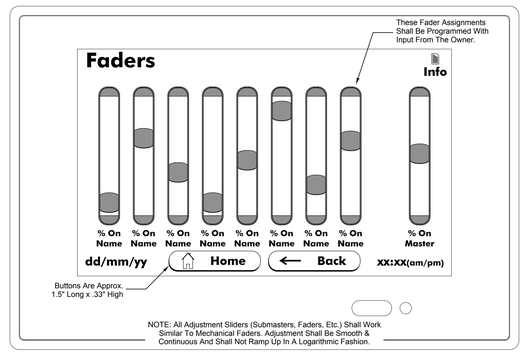


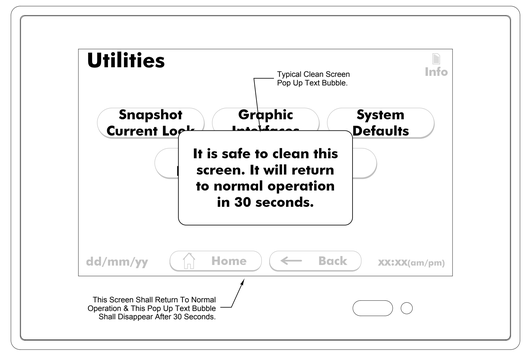


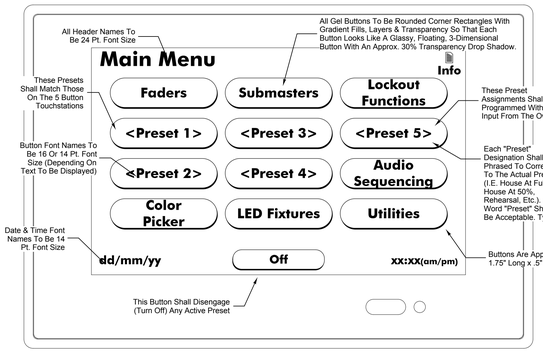


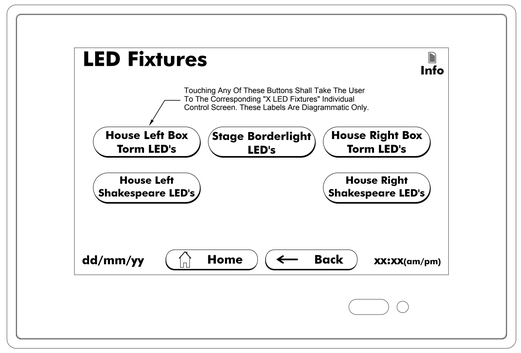


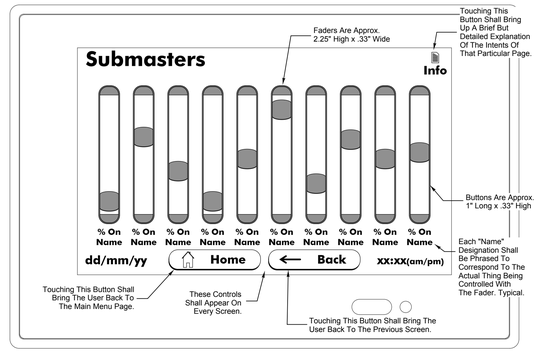


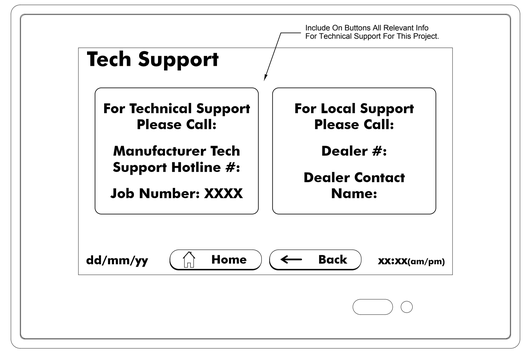


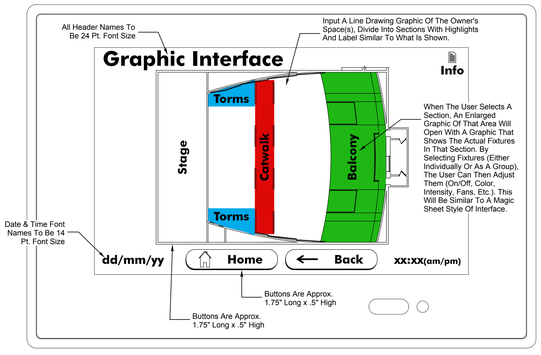


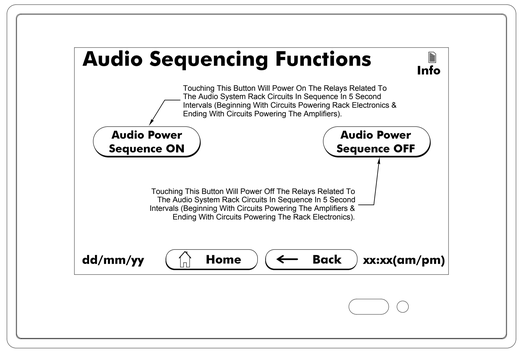


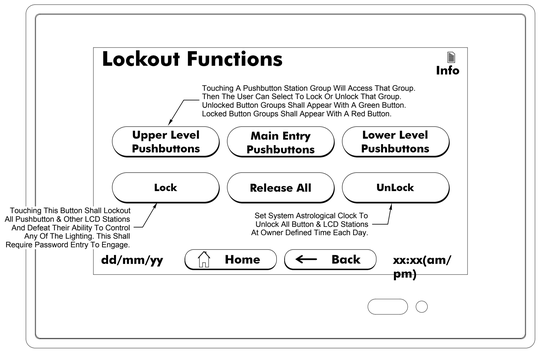


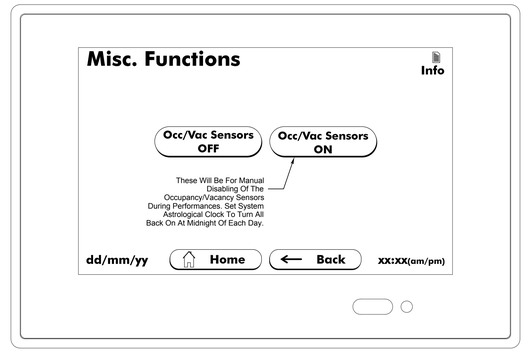












1 SAMPLE LCD TOUCHSCREEN LAYOUT DETAILS
SCALE: NOINE

DRAWN BY:	SPJ
CHECKED BY:	SPJ
DATE:	07/24/2026
PHASE:	CD

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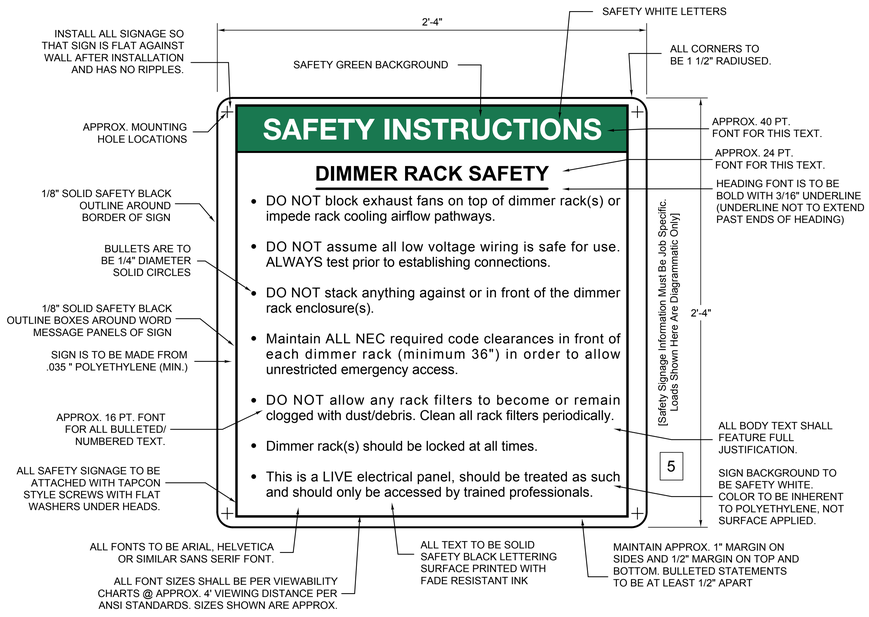
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THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

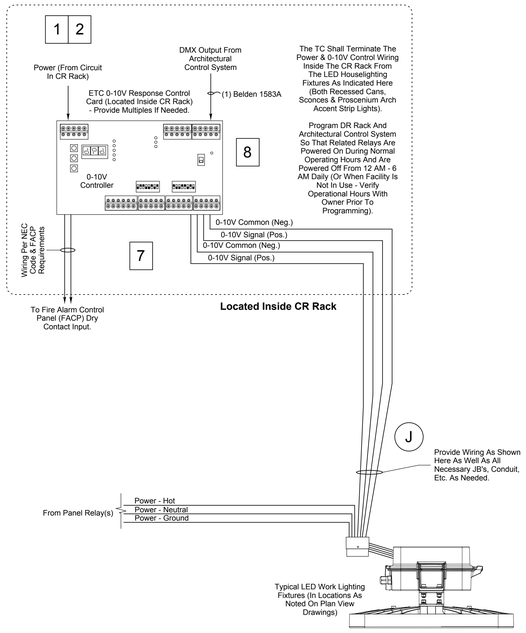
SED # 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TL3.5

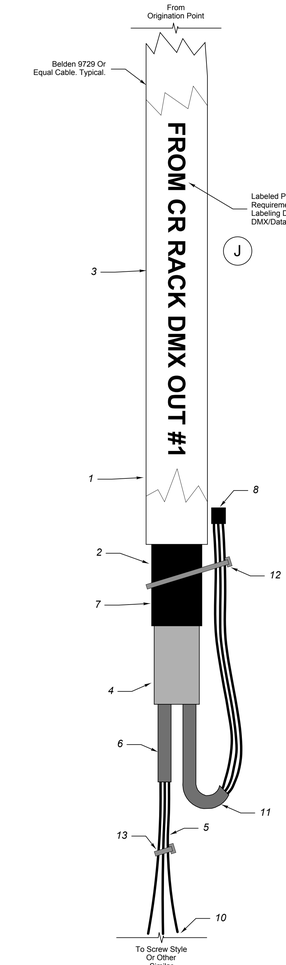
PROJECT NO: 2012-254



1 SAMPLE DIMMER RACK SAFETY SIGNAGE
SCALE: NONE



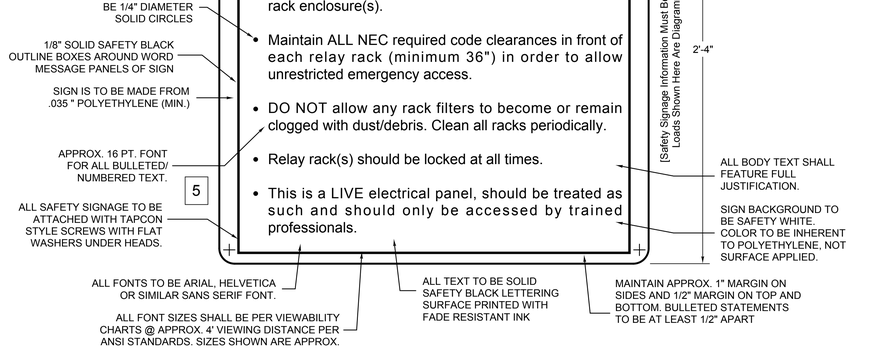
2 LED 0-10V INTERFACE WIRING DIAGRAM
SCALE: NONE



STEP	DMX CABLE PREP NOTES:
1	Cut cable so that an 8" tail extends from the edge of the related terminations box (plus required service loop).
2	Strip 7" of the main outer cable jacket back.
3	Label the main cable above the strip line with a durable, self-laminating, vinyl wrap-around style label with the data type and run designation (see other details for labeling requirements).
4	Strip the foil shielding from each wire set to within 1/4" of the main outer jacket.
5	Untwist the shield wire from each pair and apply a piece of 1/16" clear heat shrink to each shield wire.
6	Twist each shield wire back onto its data pair and then apply a 1 1/2" piece of 3/16" heat shrink all the way down each 3-wire set. Make sure to capture the foil shielding at the base.
7	Apply the 2" piece of the 3/8" heat shrink, centered on the end of the cable jacket and bases of all the wires in the cable bundle.
8	Cap the ends of the unused pair of wires with a 1" piece of 3/16" heat shrink, centered over the end of the wires.
9	Strip 3/16" of insulation from all of the wires to be used (NOT to any unused wires)
10	Maintain the wire pair twist as close to the connector/connection point as possible and terminate the wires as required.
11	Gently bend back the unused set of wires and align them along the main wire outer jacket.
12	Secure the unused set of wires to the main wire above all stripped points with a nylon wire tie.
13	Secure the terminated wires together with a wire tie approx. 2" from the connector/termination point. Properly strain relieve all wiring at each connector/termination point so that there is zero undue pressure of tension pulling on the terminations.
14	Allow a proper (approx. 12") service loop at each termination location beyond all main wire stripped points, coil in a gentle circle and secure loop with a Velcro strap.

Note: In the case of "touch-and-go" wire applications with two wires landing at the same terminals, strip both wires to 3/4", twist them together tightly and then trim them to 3/16". When wiring multiple DMX devices, ensure that the wiring daisy chain contains no "Y's" or loops. Provide DMX terminators at all "ends."

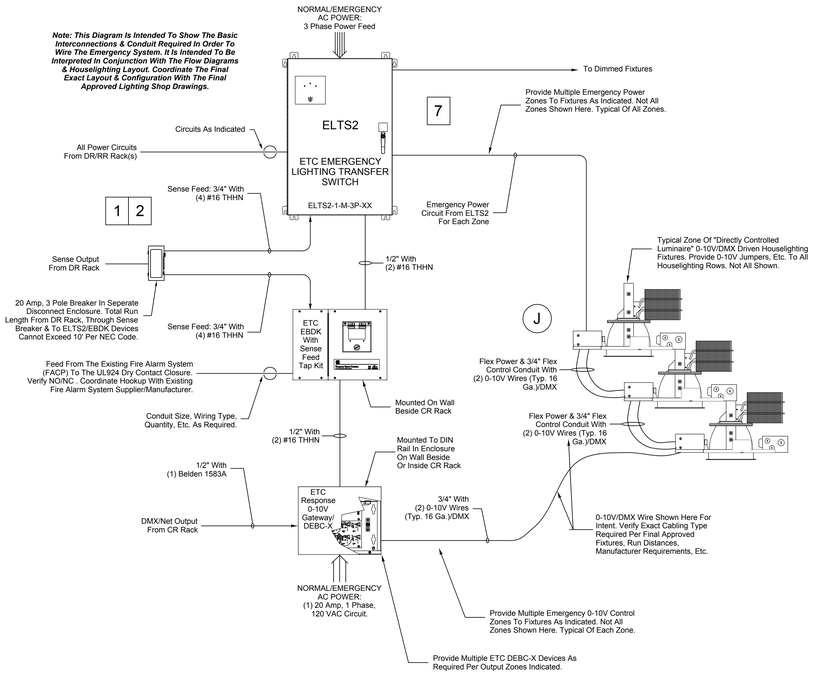
3 DMX WIRING DRESS DETAIL
SCALE: NONE



4 SAMPLE RELAY RACK SAFETY SIGNAGE
SCALE: NONE

SIGNAGE MOUNTING NOTES:

See Rigging Signage For More Info On Related Requirements.



5 EMERGENCY DMX/0-10V BYPASS SYSTEM & CONTROL INTERFACES WIRING DIAGRAM
SCALE: NONE

REFER TO THE TL4.1 SERIES DRAWINGS FOR ALL LIGHTING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TL SERIES DRAWINGS.

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THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED#: 07-56-00-01-0-034-027, 07-56-00-01-0-034-028

BR-TL3.6

PROJECT NO: 2012-254

NOTES:

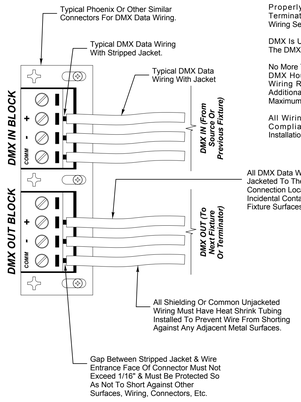
All DMX512 Data Cabling Must Be Installed Per ANSI E1.11 - 2008 (Or Current Revision). All DMX Data Cabling Must Meet The ANSI/TIA/EIA-485 Standard. DMX Daisy Chain Topography & Signal Integrity Must Be Maintained Throughout. No Other Wiring Topographies Shall Be Allowed.

Properly Support & Strain Relieve All DMX Wiring, Terminators, Etc. To The Fixture Housing. Provide Data Wiring Service Loop As Indicated (12" Minimum).

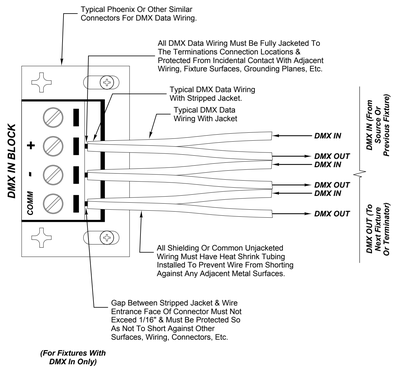
DMX Is Understood To Be An Abbreviation That Refers To The DMX512 Wiring Standard.

No More Than (20) DMX Devices Are Allowed On Any Single DMX Houselighting Run. Provide Additional Home Run Wiring Runs To Head End As Required For Runs With Additional Devices Or Dual Driver Devices. Do Not Exceed Maximum Number Of DMX Devices On Any Run.

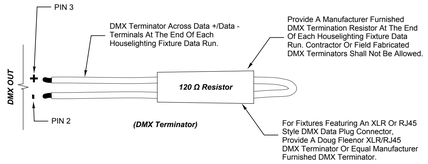
All Wiring, Terminations, Etc. Shall Be DMX512/RDM Compliant. Follow All Manufacturer Recommended Installation Instructions.



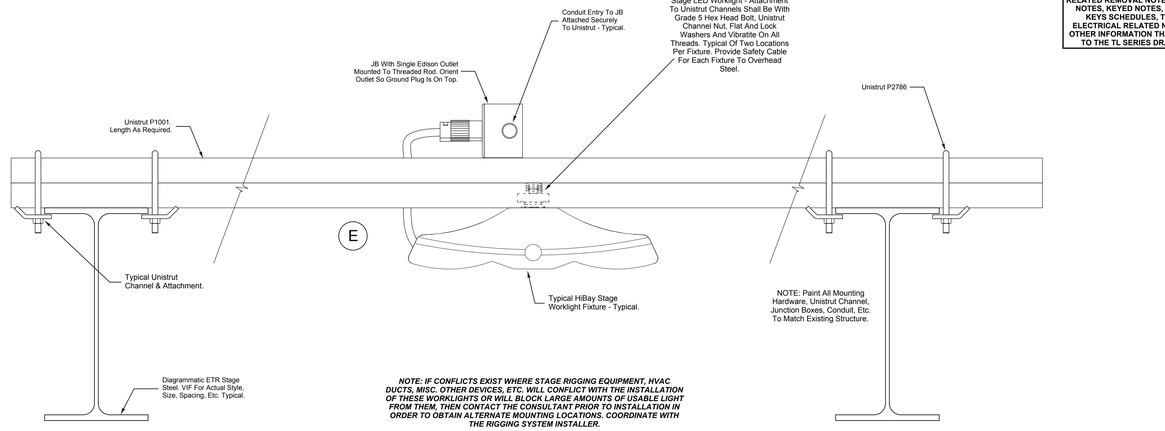
(For Fixtures With DMX In/Out/Through)



(For Fixtures With DMX In Only)

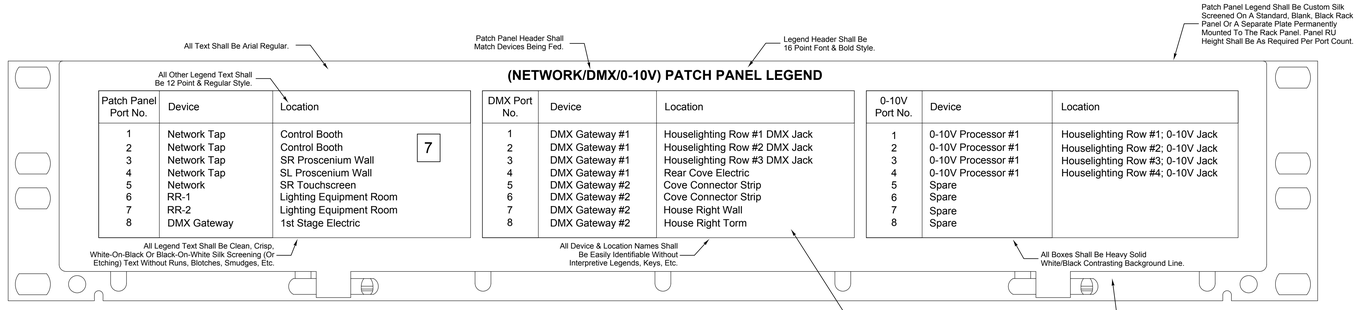


1 DMX DATA WIRING TERMINATIONS DETAIL
Scale: NONE



NOTE: IF CONFLICTS EXIST WHERE STAGE RIGGING EQUIPMENT, HVAC DUCTS, MISC. OTHER DEVICES, ETC. WILL CONFLICT WITH THE INSTALLATION OF THESE WORKLIGHTS OR WILL BLOCK LARGE AMOUNTS OF USABLE LIGHT FROM THEM, THEN CONTACT THE CONSULTANT PRIOR TO INSTALLATION IN ORDER TO OBTAIN ALTERNATE MOUNTING LOCATIONS. COORDINATE WITH THE RIGGING SYSTEM INSTALLER.

2 STAGE WORKLIGHT SUSPENSION DETAIL
Scale: 3" = 1'

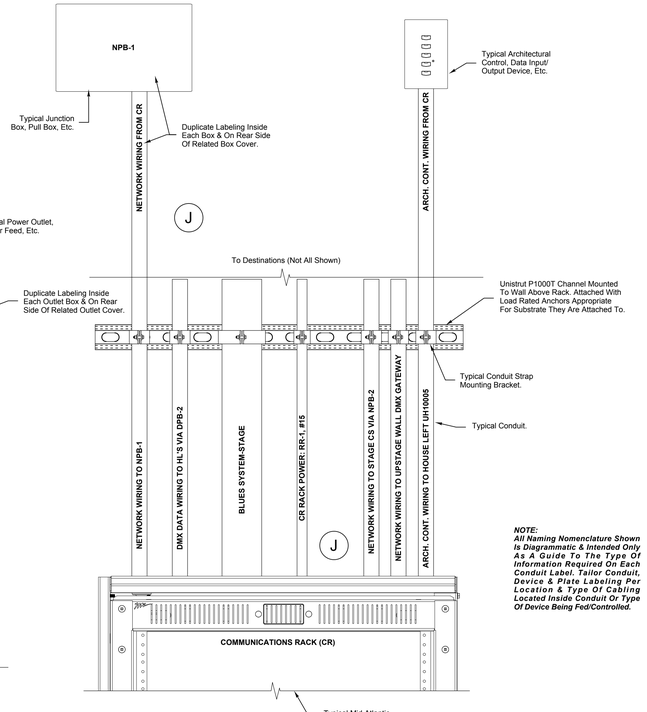


NOTE FOR PATCH PANEL LEGEND REQUIREMENTS:

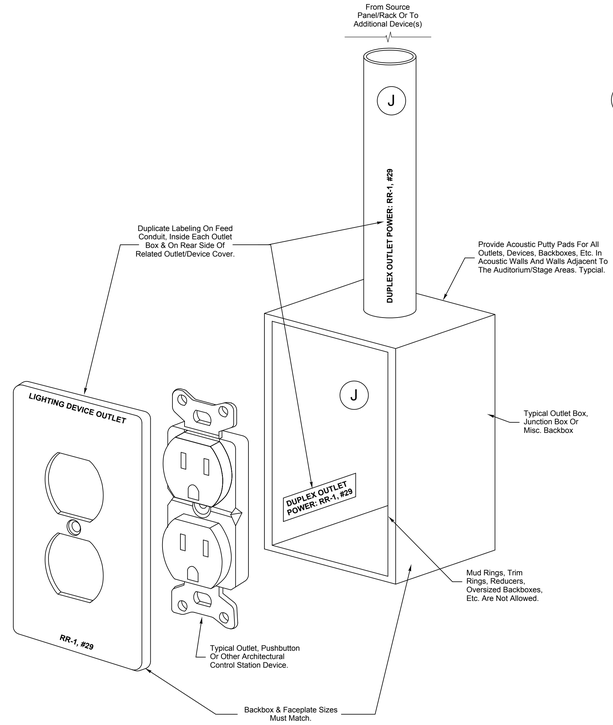
All Naming Nomenclature Shown Is Diagrammatic & Intended Only As A Guide To The Type Of Information Required For Each Label. Tailor Labeling Per Location & Type Of Devices Being Fed/Controlled.

Provide A Separate Patch Panel Legend For All Differing Classes Of Patch (Network, DMX, 0-10V, Etc.). All Patch Panel Legends Shall Be Mounted Directly Above/Below Their Respective Gear.

3 PATCH PANEL LEGEND LABELING DETAIL
SCALE: NONE



NOTE:
All Naming Nomenclature Shown Is Diagrammatic & Intended Only As A Guide To The Type Of Information Required On Each Conduit Label. Tailor Conduit, Device & Plate Labeling Per Location & Type Of Cabling Located Inside Conduit Or Type Of Device Being Fed/Controlled.



4 CONDUIT & BOX LABELING DETAILS
SCALE: NONE

REFER TO THE TL4.1 SERIES DRAWINGS FOR ALL LIGHTING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TL SERIES DRAWINGS.

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CHECKED BY:	SPJ
DATE:	07/24/2026
PHASE:	CD

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THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

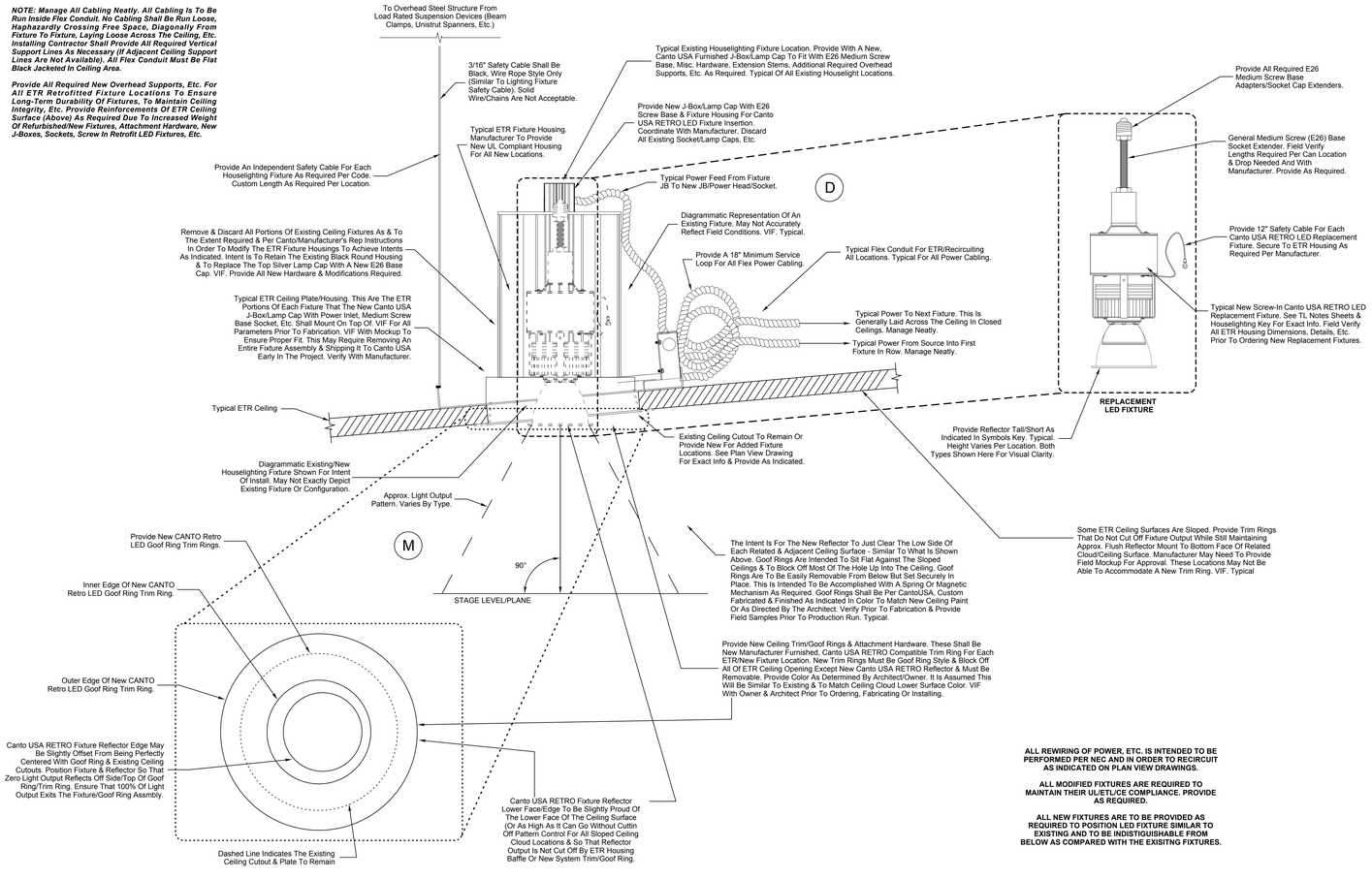
SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TL3.7

PROJECT NO: 2012-254

NOTE: Manage All Cabling Neatly. All Cabling Is To Be Run Inside Flex Conduit. No Cabling Shall Be Run Loose, Haphazardly Crossing Free Space, Diagonally From Fixture To Fixture, Laying Loose Across The Ceiling, Etc. Installing Contractor Shall Provide All Required Vertical Support Lines As Necessary (If Adjacent Ceiling Support Lines Are Not Available). All Flex Conduit Must Be Flat Black Jacketed In Ceiling Area.

Provide All Required New Overhead Supports, Etc. For All ETR Retrofitted Fixture Locations To Ensure Long-Term Durability Of Fixtures, To Maintain Ceiling Integrity, Etc. Provide Reinforcements Of ETR Ceiling Surface (Above) As Required Due To Increased Weight Of Refurbished/New Fixtures, Attachment Hardware, New J-Boxes, Sockets, Screw In Retrofit LED Fixtures, Etc.



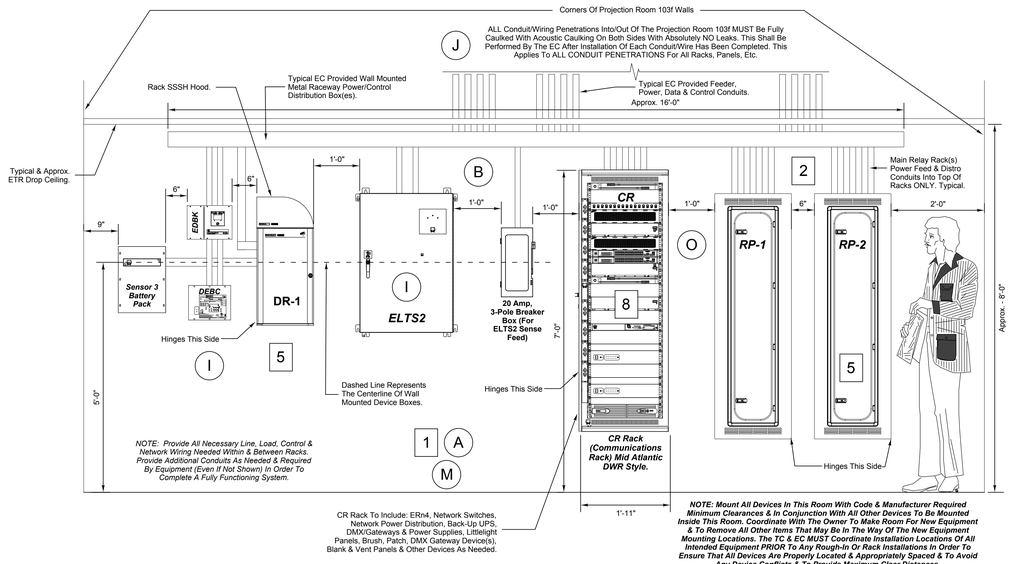
ALL REWIRING OF POWER, ETC. IS INTENDED TO BE PERFORMED PER NEC AND IN ORDER TO RECIRCUIT AS INDICATED ON PLAN VIEW DRAWINGS.

ALL MODIFIED FIXTURES ARE REQUIRED TO MAINTAIN THEIR UL/ETL/CE COMPLIANCE. PROVIDE AS REQUIRED.

ALL NEW FIXTURES ARE TO BE PROVIDED AS REQUIRED TO POSITION LED FIXTURE SIMILAR TO EXISTING AND TO BE INDISTIGUISHABLE FROM BELOW AS COMPARED WITH THE EXISTING FIXTURES.

1 CANTO LED RETROFIT FIXTURE INSTALLATION DETAIL

Scale: 3" = 1'



2 PROJECTION ROOM 103F: WALL ELEVATION

Scale: 3/4" = 1'

REFER TO THE TL4.1 SERIES DRAWINGS FOR ALL LIGHTING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TL SERIES DRAWINGS.

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THEATRICAL LIGHTING SYSTEM DETAILS-AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TL3.8

PROJECT NO: 2012-254

LIGHTING SYMBOLS KEY:

SYMBOL	ITEM DESCRIPTION	BACK BOX	NOTES
UH10001	UH10001 - ETC Unison Heritage 1 Button Control Station. Provide With Locking Covers. Typical.	One Gang 3.5" Deep	Mounted In Wall At Standard Switch Height Or As Indicated.
UH10005	UH10005 - ETC Unison Heritage 5 Button Control Station. Provide With Locking Covers. Typical.	One Gang 3.5" Deep	Mounted In Wall At Standard Switch Height Or As Indicated.
UH10002	UH10002 - ETC Unison Heritage 2 Button Control Station. Provide With Locking Covers. Typical.	One Gang 3.5" Deep	Mounted At Standard Switch Height Or As Indicated.
RN	ETC Unison Remote Plug-in Station. Network Plug-In.	One Gang 3.5" Deep	Mounted At Standard Electrical Outlet Height Or As Indicated.
LJB-X	Lighting Junction Box	12" x 12" x 6" NEMA Box	Mounted At Standard Electrical Outlet Height Or As Indicated.
XX" With XX"	Indicates Conduit Size And/Or Wire Runs		It Is Understood That The XX" Indicator Typically Contains Two Sets Of Details. The First Detail Is Typically A Number Or Series Of Numbers Or An ETR Designation Before Or To The Left Of The " (Inches) Symbol That Indicates The Conduit Size & Quantity Of Conduit(s) To Be Provided. The Second Detail Indicator Is Typically After, To The Right Of Or Below The "With" Word That Indicates The Quantity & Type Of Wiring To Be Provided & Pulled Inside The Indicated Conduits (Whether New Or ETR As Indicated).
XX	Home Run To Or From A Particular Device (May Also Be A Straight Line Or Splined Line With A Single Or Multiple Arrowheads).		This Designation Indicates A Power, Conduit And/Or Wiring Run From Or To A Device. This Does Not Recommend Or Indicate Any Particular Routing Path; However, All Routing Paths Should Be Common Sense, As Short As Is Possible & Not Circuitous Or Unnecessarily Long Or Detoured.
ND	Network Drop/Grid Iron Junction Box - ETC Model 9700 DMX. Configured With One Or Two Data Runs As Needed. There Are To Be No Connectorized Terminations On This Box (XLR, RJ45, Etc.). Only Internal, Pressure Clamp Style Terminations Shall Be Allowed.	N/A	Mounted To Side Of Corresponding Gridiron Junction Box. In The Case Of Duals Required, Mount One To Each Side Of GJB.
NPB-X	Network Pull Box - For Lighting Network Feedthrough. There Are To Be No Terminations Within This Box.	8" x 8" x 6" NEMA Box (Min. Size - Provide Larger As Required)	Mounted To Structural Steel And Positioned To Facilitate Conduit Runs To DMX Drop Boxes.
ELTS2	ETC ELTS2-1-(0/M)-120-X Emergency Lighting Transfer Switch [See Flow Diagram For Required Quantity Of Circuits]	N/A	Wall Mounted 60" AFF to the center of the Rack.
DR-X	DR1 - ETC Sensor SR Dimmer Rack With CEM3	N/A	DR1 - Sensor SR24 Wall Rack. Attach Securely To Wall.
	Power - Duplex Edison Commercial Grade Outlet - (1) 20 Amp, 120 VAC, Single Phase Circuit.	One Gang 3.5" Deep	Mounted At Standard Electrical Outlet Height Or As Indicated.
	Power - Quad Edison Commercial Grade Outlet - (2) 20 Amp, 120 VAC, Single Phase Circuits.	Two Gang 3.5" Deep	Mounted At Standard Electrical Outlet Height Or As Indicated.
GJB	ETC Grid Iron Junction Box - Size Each Box For The Number Of Circuits Indicated.	N/A	Mounted To Structural Steel Or As Indicated. Do Not Block Hinged Cover Access. Operation Or Open-Ability.
	ETC Connector Strips (Distribution Series) - Size Each As Indicated On Drawings. Provide Without "Double Height" Termination Box Unless Circuit Count Is Too High For Single Height Strip With Integral Termination.	N/A	Mounted As Indicated. Provide Connector Strip Brackets As Indicated And In Quantities As Recommended By The Manufacturer.
N	Network Plug-in Station (For System Tech Plug-In & Sensor Rack Processor Configuration)	One Gang 3.5" Deep	Mounted At Standard Electrical Outlet Height Or As Indicated.
CR	Communications Rack - For ERnX, Lighting Control Distribution, Network Distribution & Power, Misc. System Power Supplies, Misc. Data Gateways, Cable Management, Switch(s), Patch Panel(s) & Other Related Equipment. Size Rack for Equipment Specified & Needed To Complete System.	N/A	Wall Mounted At 60" AFF To The Center Of The Rack.
D2N	ETC NET3 Two-Port DMX Gateway (With Female Output Connectors). Internally Pre-Wired Into Connector Strip Manufacturer.	N/A	Mounted At Terminations End Of Connector Strip. See TL Details For More Information On Device Locations & Placement.
2D-G	ETC NET3 Two-Port Gateway Fed Female DMX Output Connector Jacks. Internally Pre-Wired Into Connector Strip/Outlet Box & Related Device By Manufacturer. Devices Fed From CR Rack Mounted Gateway.	N/A	Mounted Inside Outlet Box. At Terminations End Of Connector Strip Or As Indicated. See TL Details For More Information On Device Locations & Placement.
ERn4	ERn4 - RM/WM/DIN -120 - ETC Unison Paradigm 4 Slot Rack/Wall Mount External Control Enclosure Rack With Dual P-ACP, P-SPM & Battery Backup Option & Four DMX Universes. Not Shown On Plan View Drawings.	N/A	Wall Mounted At 60" AFF To The Center Of The Rack & Mounted Inside The CR Rack As Indicated.
P-LCD	ETC Unison Paradigm P-TS7-XX Wall Mounted LCD Touchscreen Control Station - Permanent Location. (Provide The Latest Version Of Touchscreen With Latest Firmware/Software Loaded, Etc.). Provide With Locking Cover. Typical.	5.33" H x 8.3" W x 3.25" D	Mounted On Stage As Indicated. Exact Location TBD By Owner. Factory Furnished Back Box. Backbox Size Is Approx. Flush In As Required Once Backbox Is In Hand.
CS NET	Network Entry At The End Of The Connector Strip.	N/A	Mounted "Top Hat" On Connector Strip By ETC. Wiring To Be Terminated Inside "Top Hat". No Connectorized Terminations (IE XLR, RJ45, Etc. Shall Be Allowed At The Top Hat.
2N	Unison Heritage Dual Network Plug-in Station	Two Gang 3.5" Deep	Mounted At Standard Electrical Outlet Height Or As Indicated.
N	Unison Heritage Single Network Plug-in Station	One Gang 3.5" Deep	Mounted At Standard Electrical Outlet Height Or As Indicated.
WAP	Cisco Aironet 1600 Series Enterprise Class (Or Most Current Replacement/Equal), High Power, Concurrent Dual-band, Omnidirectional Wireless Access Point. Provide With External Antennas & Locks, If Needed.	One Gang 3.5" Deep	Mounted On/In Ceiling And For Maximum Coverage Or As Indicated. Provide With Case Color To Match Ceiling/Deck This Device Is Mounted Against.
RR-X	RR-X - ETC Sensor IQ Relay Panel. IQ-XX, 120/208 VAC, Mains Fed Panel With Network, Door, MCB, Breakers/Relays. XXX Amp, 3 Phase Feed. See Flow Diagram For Complete Info.	N/A	Wall Mounted At Approx. 60" AFF To The Center Of The Rack (If Possible). Field Coordinate Exact Location With Owner, NEC, ADA Codes, Other Obstructions, Etc.
WOB-X	ETC 9200 Series Recessed/Flush Mount Wall Outlet Box With Panel Mount Connectors - Provided With XX- 20 Amp Circuits & DMX Gateway.	Provided By Manufacturer	Mounted At Standard Electrical Outlet Height Or As Indicated.
TEOB-X	Tormentor Outlet Box - ETC 9100/9300 Series Surface Mount Outlet Box With Network, Outlet, Pigtail & Other Receptacles Indicated.	Provided By Manufacturer	Surface Mounted To The Side Auditorium Wall As Indicated.
CEOB-X	Cove/Catwalk Electric Outlet Box - ETC 9100/9300 Series Surface Mount Outlet Box With Network, Outlet, Pigtail & Other Receptacles Indicated.	Provided By Manufacturer	Surface Mounted To Pipe Battens As Indicated.
HR-X	Horizontal Metal Raceway - McMaster-Carr 8130K465 Series, Legrand Wiremold 6000 Series Or Equal Painted Steel Wireway (Sized For Installation Requirements). Provide Empty Raceway With Blank Plate Screw Cover & Knockouts (May Not Be Shown In Plan View) & Land Conduits Into It As Required. (Used As A Common Wiring Trough For Power/Control Conduits To/From Racks To Destinations).	N/A	Surface Wall Mounted Above Dimmer & Communications Rack At Approx. 120" AFF To The Bottom Of The Raceway (Maintain Required Clearance Above Racks). Field Coordinate Exact Location With Manufacturer Required Clearances, NEC, Other Obstructions, Etc.
JB	Junction Box With Blank Plate Cover. Labeled On Inside & Outside Each Cover As "Spare To/From Projection Booth/Stage Area" As Required & Indicated. Label Conduits As Well.	12" x 12" x 4" NEMA Box	Mounted At Standard Electrical Outlet Height Or As Indicated.

Notes:

All References To "Standard Electrical Outlet Height" And "Standard Switch Height" Are Intended For The Installing Contractor To Mount These Devices To Match These Mounting Heights With Any Existing Or Adjacent Devices On Site In The Auditorium. Most Backboxes For This Project Are Existing & To Remain; However, For All New Backboxes, Etc. The Following Notes Shall Pertain.

All Device Backboxes Shall Be Flush Mounted Unless Otherwise Noted On The Drawings. If Building Construction Makes Flush Mounting Impossible Or Impractical, Then Obtain Written Permission & Instructions From The Architect (Including Specific Device Types, Conduit/Wiremold Types, Required Painting, Sizes, Profiles, Etc.) Prior To Installing Any Surface Mounted Devices (This Is Excepting Devices Such As GJB's, JB's, Pull Boxes, Etc. Mounted To Stage Or Other Overhead Steel).

Where Existing Switches Or Outlets Are Located In The Vicinity Of New Devices And Are Noted As Being Mounted At Different/Conflicting Heights, Verify Design Height Intents With The Owner/Owner's Representative Prior To Rough In & Mount Devices Per Owner/Owner's Representative Written Instructions.

Where An Existing Back Box And Conduit Path Can Be Reused, Verify With The Owner/Owner's Representative & Size/Pathways & Overall Suitability For Reuse Before Reusing The Location.

Where Boxes Are Indicated As Surface Mounted, Wiremold Style Boxes Shall Be Utilized, Painted To Match Mounting Surface Or As Directed By Architect/Owner. See E Series Drawings For Restrictions, Etc. For Wiremold Boxes, Raceways, Routings, Etc.

All Backboxes Shall Be 3.5" Deep With Internal Square Edges. No Backboxes With Rounded Or Radiused Corners Shall Be Acceptable. Where Mounting Brackets Are Required, Provide Appropriate Brackets As Needed To Mount To Studs, Wall, Etc. No Contractor Fabricated Mounting Systems Shall Be Acceptable. Read All Drawing Notes For More Information On Backbox Styles, Types, Etc. Required.

Provide The Owner With Actual Sized Paper Template Copies Of All New Station Faceplates That Are Part Of This Project, Which The Owner Shall Then Tape On The Walls In The Final Desired Locations For All Architectural Control Stations. Do Not Install Any Related Conduit Or Backboxes Until Final Locations Have Been Determined By The Owner. No Stations Shall Be Allowed To Exist In Areas Or Locations Where They Conflict With Other Devices, Are Buried Behind Other Devices, Block Access To Life-Safety Devices, Are Tucked Into Inaccessible Corners Or Are Otherwise In Impractical, Out-Of-The-Way Locations.

Standard Switch Height Is Typically 48" To The Top Of Box.
Standard Outlet Height Is Typically 20" To Top Of Box.
Verify All Standard Heights With E Series Drawings/Field Conditions.

Disregard Any Symbols That Were Unintentionally Left In This Symbols Key & That Do Not Apply To This Project Or That Don't Appear/Are Not Referenced Elsewhere In This Set Of Drawings.

LIGHTING SYSTEM KEYED REMOVAL NOTES:

Perform all work as described below and on other TL series drawings. All work shall conform to the standards of spec section 19 2000 and the general, demolition, electrical and architectural contract sections:

Each note indicates a typical location for the type of work to be performed or equipment to be provided. Provide for all instances of typical work indicated. All drawing notes may not appear or be referenced on each drawing; however, all notes still apply to the work indicated within each note and shall be performed by the referenced contractor(s).

1 All lighting related items shall be removed in accordance with the project schedule and related trades. Notes may only indicate the location of one item but are understood to be typical of all items in the same category.

Remove means to disconnect, remove and either dispose of or store items as indicated. If removal of any item leaves any protruding hardware or holes that present hazards or violate fire codes, such items shall be properly finished, infilled or removed in order to maintain code compliance and general overall safety. Coordinate removals work with related removal work by others. The removals notes listed below are not necessarily listed in their proper sequential order. Perform removals work in the proper logical sequence and so that any related systems are properly powered down and/or disconnected prior to the commencement of removals work, etc. Removals work shall be performed in the order that results in the maximum safety benefit for all involved, both equipment and personnel.

All devices, portable cabling, control consoles, etc. being removed and slated for legal disposal or turnover shall first be offered to the owner for their right of first refusal. If the owner does not wish to retain certain items, then the contractor shall obtain written verification of the owner's intent prior to legally disposing of such noted items.

In all instances where the contractor is recommended or required to obtain owner sign offs, owner input on device locations, etc. the contractor must first verify that the signee is actually authorized by the owner to provide sign offs on every item listed. This would typically be written approval/notification from district level personnel (superintendent, CEO, CFO, etc.). Failure to do so may jeopardize any sign off sheets obtained and may require the contractor to provide additional (and potentially duplicate) equipment in order to satisfy contractual demands.

Prior to the commencement of any removals work, field document with detailed notes & digital photos the existing contents and configuration of any related audio/AV systems and equipment that will need to be protected and/or uninstalled/reinstalled. Obtain a written sign-off from an authorized owner's representative that confirms the exact condition & configuration. All field work shall be duly time-stamped with the date of acquisition. Any devices indicated to be reinstalled that are unfit for reinstallation shall be flagged officially by an RFI at the earliest point of discovery in order to obtain direction and consultant input as to direction of how to proceed. Failure to perform these tasks may result in the contractor having to do additional work or provide replacement devices at no additional expense to the owner.

It is understood that, when removing a lighting system and all related items, there may be a number of misc. items connected or related to the existing lighting system that are not specifically called out on the drawings (and may not have been visible or even present during the walk through that will need to be removed, uninstalled, maintained and/or reinstalled. This includes, but is not limited to, misc. portable cabling, wiring runs, theatrical fixtures, etc. For all such items, the contractor should treat suspect and item remove, protect and reinstall similar to existing, as required, with the new lighting system, unless directed to do otherwise in the drawing notes. All such items shall be field verified with the owner prior to removals and reinstallations in order to obtain extents and pertinent parameters.

It is understood that, when performing removals and new installations work, the contractor is responsible to protect any items that are either not indicated for removal or that are indicated for removal and reinstallation. This includes any related, unrelated, adjacent, etc. items that could become damaged by the contractor's work. This includes, but is not limited to, walls, floors, coffered ceilings, theatrical CD80 Supervisor dimmer rack) and label and tag each circuit as to its destination/loading prior to disconnecting the wiring and any related legal disposal. Retain neatly/clearly sized horizontal terminal box(es) as required with insulated terminals in order to extend this circuit wiring as per NEC code. VIF. computers, furniture, power panels & breakers, conduits, doors, curtains, fabrics, set pieces, chairs, rigging system equipment, owner's tools, musical instruments, ladders, misc. cabling, etc.

It is understood that, when visual depictions of lighting elements are shown on the contract drawings, it is a diagrammatic representation of the items to be provided and/or removed. Not every instance or every style/type of device or related items to be provided and/or removed has or can be shown. The contractor is responsible to VIF and to provide/remove for all similar devices and classes of devices as those that are indicated.

2 Remove all theatrical style & stage border/light fixtures as well as all related portable cabling, etc. from all stage, cove/catwalk, terminator pipe assemblies and in misc. adjacent areas prior to removing any stage/house rigging battens, tormentors, lift lines, arbors, etc. and offer all removed devices to the owner for use elsewhere prior to legal disposal.

3 Remove the existing followspot lighting fixture from near the control booth and offer all removed devices to the owner for use elsewhere prior to legal disposal.

4 Remove all ET portable dimmer strips & ChromaQ PS series power supply/splitter boxes as well as all related portable cabling, etc. from all cove/catwalk locations and offer all removed devices to the owner for use elsewhere prior to legal disposal.

5 Remove the existing Strand Vision.Net or similar take control fader and push button stations located througout the auditorium (after disconnection of power, etc. by others) and legally dispose of these items.

6 Remove the existing ET Marquee lighting control console, computer/keyboard, monitor & all related cabling from the rear control booth area and legally dispose of these items.

7 Remove all input devices (DMX/NET inputs, etc.) and related plates located throughout the auditorium and related adjacent areas (items that interface the lighting console with the dimming system) and legally dispose of these items.

8 Remove all portable DMX, VGA and patch cables related to the theatrical lighting system located throughout the auditorium and related adjacent areas and legally dispose of these items.

9 Use a man lift and/or appropriate safety harnesses for personnel removing lighting fixtures. Any damage done to the ceiling caused by failure to use appropriate methods of removal, etc. will be the sole responsibility of the contractor to repair and return any affected surfaces to their prior state before the damage was done.

Perform all critical removals (i.e. theatrical fixtures, followspots and any other items to be reused) prior to any room demolition or dirt & dust creating work is commenced. This will aid in keeping these items as clean as is possible.

At all locations where devices have been removed from walls, floors or stage walls, etc. and has affected surfaces (i.e. holes in walls, ceilings, floors, mismatched wall paint, dirt, debris, protruding or otherwise irrelevant hardware, anchorages, etc.), patch to match existing for all affected surfaces (including device removals, touch up painting for affected surfaces, cleaning of surfaces, affected areas, etc.). See written specifications and front end contract documents for a more detailed description of patching requirements.

10 The contractor shall be required to protect all existing audio/AV system devices (speakers, consoles, racks, projectors, inputs/outputs, snakes, wireless systems, etc.) as indicated as well as to hire a qualified sub contractor for all work that deals with those existing systems. The audio/AV sub contractor MUST have an expertise in the areas of their removals/protections/reinstallation work and have the appropriate manufacturer trainings/certifications, etc. All existing audio/AV gear shall be verified fully functional and then turned over to the owner in a similar state as existing after all renovations work has been completed. Recalibrate, reprogram, etc. as is required.

ELECTRICAL SCOPE KEYED REMOVAL NOTES FOR THEATRICAL LIGHTING SYSTEM:

Perform all work as described below and on other TL series drawings. All work shall conform to the standards of Divisions 26 as well as the 19 2000 specifications and the general, demolition and architectural contract sections:

Each note indicates a typical location for the type of work to be performed or equipment to be provided. Provide for all instances of typical work indicated. All drawing notes may not appear or be referenced on each drawing; however, all notes still apply to the work indicated within each note and shall be performed by the referenced contractor(s).

A Remove means to disconnect, remove and either dispose of or store items as indicated. If removal of any item leaves any protruding hardware or holes that present hazards or violate fire codes, such items shall be properly finished, infilled or removed in order to maintain code compliance and general overall safety. Coordinate removals work with related removal work by others. The removals notes listed below are not necessarily listed in their proper sequential order. Perform removals work in the proper logical sequence and so that any related systems are properly powered down and/or disconnected prior to the commencement of removals work, etc. Removals work shall be performed in the order that results in the maximum safety benefit for all involved.

All electrical related items shall be removed in accordance with the project schedule and related trades. Notes may only indicate the location of one item but are understood to be typical of all items in the same category.

All devices, conduit, wiring/cabling, backboxes, fixtures, racks, connector strips, control systems, JB's, etc. being removed and slated for legal disposal shall first be offered to the owner for their right of first refusal. If the owner does not wish to retain certain items, then the contractor shall obtain written verification of the owner's intent prior to legally disposing of such noted items.

During demolition and removals work, ensure that all existing power/control/alarm, etc. runs that are routed inside the existing main and underbalcony ceiling areas are protected and maintained. Repair/replace any that become damaged.

It is understood that, when removing electrical devices related to an existing lighting system and all related items, there may be a number of misc. items connected or mounted to the existing lighting system that are not specifically called out on the drawings (and may not have been visible or even present during field verification walk that will need to be removed, uninstalled, maintained and/or reinstalled. This includes, but is not limited to, misc. electric cabling, wiring runs, misc. supports, etc. For all such items, the contractor should field inspect and then remove, protect and reinstall similar to existing, as required, with the new lighting system, unless directed to do otherwise in the drawing notes. All such items shall be field verified with the owner prior to removals and reinstallations in order to obtain extents and pertinent parameters.

It is understood that, when visual depictions of electric elements are shown on the removals drawings, it is a diagrammatic representation of the items to be removed. Not every single instance of related devices to be removed has or can be shown. The contractor is responsible to remove all similar devices and classes of devices as those that are indicated.

It is understood that, when removing racks, etc. related to the existing dimming system, the EC shall cut back conduits, relocate misc. devices, etc. in order to remove wiring, etc. to the extents indicated and required and to locate all new equipment.

B Trace and verify all existing circuits, wiring and designations (all circuits that are powered from the existing Strand CD80 Supervisor dimmer rack) and label and tag each circuit as to its destination/loading prior to disconnecting the wiring and any related legal disposal. Retain neatly/clearly sized horizontal terminal box(es) as required with insulated terminals in order to extend this circuit wiring as per NEC code. VIF.

C Trace and verify all existing non-lighting related circuits, wiring and designations (any non-lighting related circuits that are powered from the existing Strand CD80 Supervisor dimmer rack) and label and tag each circuit as to its destination/loading prior to disconnecting the wiring. This wiring shall be extended to a new contractor provided breaker panel/breakers. Provide appropriately sized horizontal terminal box(es) as required with insulated terminals in order to extend this circuit wiring as per NEC code. VIF.

D After tracing and verifying all existing circuits, disconnect all circuit wiring from the existing Strand CD80 Supervisor dimmer rack to all existing circuits. Cap some wiring for extension to new devices as indicated above and remove for legal disposition all other related conduit, wiring, JB's, troughs/wireways, etc.

E Disconnect and remove all stage SO cable wiring and all other power/data feeds, grid iron boxes and all related junction boxes, connector pipe assemblies and in misc. adjacent areas prior to removing any stage/house rigging battens, tormentors, lift lines, arbors, etc. and offer all removed devices to the owner for use elsewhere prior to legal disposal.

F Disconnect and remove all conduit and wiring from all existing DMX/Data outlets located throughout the auditorium, catwalk, stage and related adjacent areas prior to plate removal by others. After plate removal by others, legally dispose of all related removed conduit & wiring. Retain existing conduit & backboxes for all existing locations to be reused (pull new wiring inside as indicated). VIF for all locations.

G Disconnect and remove (pull completely out) all existing architectural control system pushbutton stations, fader stations and all related low voltage control wiring from the existing conduits/backboxes and legally dispose of these items. Retain all existing conduits/backboxes for reuse (as will be required per new design/layout) and to pull new required cabling inside of. Include new pull strings in all new wiring pulls. VIF for all existing conduit & wire routing, as this was unable to be determined during design investigations work. All is believed to be landed from all various existing control locations to the existing Strand CD80 Supervisor dimmer rack located on the downstage right proscenium wall. All conduits shall be extended by the contractor to the new CR rack location in the upper rear level control/projection booth area with all new wiring as required. Provide all new conduits, wiring, backboxes, etc. everywhere required (reuse existing where able).

H Disconnect and remove all feeder power wiring, misc. panels, wall/floor troughs, etc. and most related conduit to the existing Strand CD80 Supervisor dimmer rack and legally dispose of these items. Retain all conduit and wiring as indicated as required for reuse. Power off and lock all related feeder breakers in order to accomplish a proper 1:1 patch. In the case where there is more than one rack with overlapping numbering schemes (i.e. a dimmer rack and a relay rack), then the numbering shall include a prefix in order to differentiate (i.e. Circuit #D1 would be dimmer rack dimmed circuit #1; Circuit #C24 would be constant circuit #24; Circuit #R12 would be relay rack circuit #12; etc.). The prefix "D" is typically dropped for connector strip or outlet box numbering. Coordinate with the theatrical contractor as required for consistency in all numbering schemes.

I Disconnect and cap the flexible cabling for the existing motorized projection screen and protect it during the duration of the project (appropriate measures for protection would include coiling wire above bottom of steel, bagging and storing out of the way of new set hardware until time of installation/connection). The existing motorized projection screen will be reinstalled in the new system and rewired. Provide any extra, new or additional conduit, backboxes and black SO wiring needed to match existing in order to relocate the projection screen to the indicated set in the new rigging system (this includes any additional cabling required in order for the projection screen to reach its low trim height as indicated on the TR series drawings). All projection screen SO power/control wiring shall be a single piece of wire from overhead steel to the projection screen once it is complete. No spliced wiring shall be allowed. If wiring must be extended in order to reach the new set location, then provide all additional wiring needed and an appropriate junction box above the bottom of steel inside which may be transitioned to a black jacketed flexible SO style cable via terminal blocks or similar.

J Disconnect and remove all existing connector strips, outlet boxes, mounting brackets, DMX/Data & related devices located on the walls at both existing house tormentor areas and legally dispose of all devices. Disconnection and removal of fixture wiring, conduits, etc. is understood to mean that these items are removed back to their source panels/locations. New fixtures will be powered via the new rack in the upper level booth.

K Disconnect and remove all existing recessed troffer style houselighting fixtures located in both existing stage front side corridor ceiling areas and legally dispose of all devices, conduit, power, wiring, etc. Disconnection and removal of fixture wiring, conduits, etc. is understood to mean that these items are removed back to their source panels/locations. New fixtures will be powered via the new rack in the upper level booth.

L After all existing feeder and load wiring and conduit has been traced, tagged, etc., remove the existing Strand CD80 Supervisor dimmer rack, dimmer rack enclosure (including all dimmer, constant and system control modules) and related items and legally dispose of these items.

M At all locations where existing wiring and conduit to devices indicated for removal is buried within inaccessible walls, floors, ceilings, etc., remove as much of indicated wiring, conduit and related devices and hardware to the extent practical (i.e. to just below the related building surface), cap both ends of existing wiring, provide blank cover plates and abandon in place those items (conduit & wiring) that would otherwise require major excavation in order to completely remove.

At all locations where devices have been removed from walls, floors or stage walls, etc. and has affected surfaces (i.e. holes in walls, ceilings, floors, mismatched wall paint, dirt, debris, protruding or otherwise irrelevant hardware, anchorages, etc.), patch to match existing for all affected surfaces (including device removals, touch up painting for affected surfaces, cleaning of surfaces, affected areas, etc.). See written specifications and front end contract documents for a more detailed description of patching requirements.

N Existing houselighting fixtures: The exact quantity, placement, detailed locations, power wiring, circuiting, interconnections & designation of existing houselighting fixtures/circuits shall be field verified by the contractor prior to submittals or commencing work (those shown on the contract drawings are approx. and may not accurately reflect the exact current field conditions). After all field verifications, etc. the contractor shall disconnect and remove all existing recessed can houselighting fixture lamps located in all main auditorium ceiling areas and legally dispose of these lamps (approx. 45 locations - VIF). These lamps shall not be reused but will be replaced with new CantoUSA 2-wire dimmable LED replacement fixtures/extension stems as indicated on the houselighting symbols key & details drawings. Provide all required disconnections/capping of existing power feed whips @ each fixture, new lamp E26 base lamp caps on top of ETR housings, housing modifications to the existing houselighting fixtures cans, framing, supports, trim/goof rings, etc. as required per the manufacturer's instructions and to fit new fixtures, caps, housings, etc. (including full removal of one existing fixture and shipping it to the manufacturer-to be reinstalled, if manufacturer requires). See other drawing notes and symbols keys for more info on all required work as it pertains to the existing/new houselighting system. The contractor shall field verify @ height the exact locations of all existing houselighting fixtures and provide an updated plan view drawing that shows the exact existing arrangement, layout, spacing, circuiting, etc. Submit a full photometric rendering of the new houselighting system with all actual field verified locations. Recircuit as indicated in order to conform to plan view circuiting layout.

O The existing floor boxes and related lighting circuits shall be abandoned in place and shall not be reused. Disconnect the wiring to the extent possible and cap it permanently at both ends.

P Disconnect and remove all feeder power wiring, load wiring, etc. and all related conduit/wiring to the existing StageCraft ELTC device and legally dispose of these items. Power off and lock all related feed breakers from distant and/or main service panels (VIF for locations, designations, etc.). See E series drawings for more info on feeder power disconnection, new feeder for new racks, etc. Relocate and rerun all new feeder to new ELTS2 rack location. VIF and with electrical engineer for available paths for new feeder conduit/wire runs prior to ordering or installation.

Q Disconnect and remove all conduit and wiring (as well as the devices themselves) from all existing wall mounted outlet boxes (both original flush and newer SSRC style surface mounted versions) located throughout the stage area and legally dispose of all removed items. Provide blank black cover plates for the removed flush mount devices-custom sized as required to match and completely cover over holes.

R Disconnect and remove all existing stage worklighting fixtures & all related conduit, wiring, boxes, chains, drop cabling/supports, JB's, wall switches, etc. Legally dispose of all removed devices, etc. and patch to match existing all related holes. VIF for exact quantity & locations.

S Disconnect and remove the existing Square D stage control breaker panel, the Pathway Connectivity DMX distro box, all related conduit & wiring, etc. and all boxes, conduit nipples, etc. and legally dispose of these items. Provide new breaker panel with breakers for all non-lighting related ETR circuits powered from the Square D stage control breaker panel. VIF for all locations. Typical.

T Remove the existing wiring from the control booth devices and pull new wiring inside as required per the new system design and layout. VIF for all pull box locations, floor trench conduits access, etc. and provide as required for all new control booth wiring as indicated/required.

U Disconnect and remove all existing catwalk power outlet boxes, connector strips, power, conduit, portable style devices, portable distribution power strip power, DMX/Data devices/splitters, duplex/quad outlets, power cabling, data cabling, backboxes & brackets, conduit, wiring, etc. (esp. along front of catwalk) & legally dispose of these items. VIF for all catwalk locations. When complete, the front of the catwalk area should be completely free of horizontal conduit runs, misc. backboxes/JB's, etc. below the existing hand railing height, allowing easy access to theatrical fixtures. For all power outlet circuits being abandoned, remove wiring and feed breakers and mark as spares. Reroute and relocate any existing conduit, devices, etc. that are unrelated and must remain connected so that they are not in the area on the front of the catwalk below the hand railing. All must be performed per NEC and is typical of all along the front (stage-ward side) of the catwalk area.

V Disconnect and remove all existing connector strips, borderlight fixtures & related devices located on the stage area and legally dispose of all devices. Disconnection and removal of fixture wiring, conduits, etc. is understood to mean that these items are removed back to their source panels/locations.

THEATRICAL LIGHTING SYSTEM KEYED NOTES:

Each note and detail indicator indicates a typical location for the type of work to be performed or equipment to be provided. The referenced contractor shall provide for all instances of typical work indicated. All drawing notes may not appear or be referenced on each drawing; however, all notes still apply to the work indicated within each note and all similar instances of typical work shall be performed by the referenced contractor(s).

Perform all work as described below and on each TL series drawing. All work shall conform to the standards of Divisions 19 & 26 as well as this project's architectural & structural standards, the construction schedule, the current National Electric Code (NEC) and all other applicable codes and standards.

GENERAL:

Any new/removals related work or adjacent/mounting surfaces, etc. that might become damaged, have holes cut into them, receive anchorages, left with holes, etc. due to removals work, become inadvertently oversprayed/painted or become dirty during construction and the installation of the indicated devices will be protected/patched by the contractor (this includes patching to match existing & painting/repainting all affected walls, ceilings, misc. surfaces, boxes, devices, etc.). All responsibility for protection & patching work shall be by the contractor. The contractor shall provide final cleaning and/or repair of all equipment, patching/painting related surfaces, etc. related to or in their scope to like new (and to match adjacencies) condition.

The contractor must be ETCP certified (either individually or through a company sponsored program). See specs for more details.

Provide all devices, conduits, junction boxes, backboxes, wiring, etc. that are required to have a specified rating as devices with those ratings and listings per all applicable codes. This includes CE, UL, ETC, NEMA, plenum ratings, etc.

Provide all portable devices with strain relief/rubber grommets for all power and data cabling entry/exit from box(es). No devices with simple holes cut in them for cable entry/exit and without grommets or other approved strain relief systems shall be allowed. Strain relief shall be painted to match color of box it is mounted to.

Provide all misc. cabling, jumpers, extensions, turn-arounds, adapters, connectors, labor, data cords, etc. in order to provide and interface all fixtures with plugs to match those on the connector strips and outlet boxes included in this drawing set. Provide all required cabling per design and any existing related device(s), even if those cables are not specifically shown on the contract documents. Provide all portable and interface cabling with tie line and cable type/length marked at each end.

Program the architectural control system so that all remotely controllable relay circuits are powered on at 6:00 AM and powered off at 10:00 PM every day (with exceptions to ON if someone initiates a preset or control console function at any time during those "off" hours). VIF with owner on "off" hour settings prior to programming. Stagger the relay power up sequence in order to lessen the overall inrush current potential to the power system. This will help in extending the effective life of the LED lights by depowering their control electronics circuits for approx. 6 hours every day. Verify with owner and all applicable codes whether this should also apply to the circuits powering the LED houselighting fixtures that are being powered from the ELTS2 device, as these may need to be programmed to be on all hours or will need to be interfaced with NEC and owner requirements.

Provide the Chief dual monitor bracket and all misc. and necessary hardware required in order to mount it and the monitors as indicated. The intent is for the bracket to be located as indicated and for the LCD screens to be capable of a wide range of adjustment in tilt and location in order to meet the individual needs of the operator(s) as well as capable of folding down and back flush to fit inside the rolling desk when the unit is closed.

Set maximum trim for all dimmable LED houselighting fixtures within this project to 80% of total full output (as an initial and not to exceed limit - actual day-to-day settings shall be field tweaked with the consultant during acceptance testing day(s) and then programmed & saved to all related devices, presets, show files, master templates, etc. by the contractor. No dimmable LED houselighting fixtures shall be allowed to exceed 80% of their total full output.

Program all houselighting presets for a typical ramp up/ramp down time of 3 - 5 seconds.

All devices shown on the drawings are indicated in approximate locations. Coordinate the exact locations of all devices shown with the owner, existing obstructions and any other A/V related items that they are indicated to be located near or in conjunction with.

All device faceplate colors shall be from the manufacturer's standard color selections (cream/ivory, white or black - TBD by owner). Provide each faceplate with contrasting color engraved lettering/numbering unless otherwise noted (such as junction boxes). In general, device faceplates should match those that they are adjacent to and/or the wall surface they are on. All device faceplates shall be labeled with the nomenclature as indicated on the single line flow diagram. Device types shown on flow diagram and plans shall not be engraved on faceplates (shown on flow diagram in parenthesis - these are for ease of identification only), unless specifically indicated as such. Only the nomenclature and numbers shown, plus owner selected names as indicated, shall be engraved on faceplates. Obtain any owner selected device faceplate names in writing prior to ordering or fabrication.

Any time the contractor is working in the attic space above a ceiling (plaster, gyp, grid, wood, etc.), he is responsible to follow all OSHA protocols and to provide all temporary planking, plywood, walking/work platforms, misc. tie-offs, etc. related all existing conditions and any other means required to ensure a safe working environment inside this attic space and in order to access the fixtures, JB's and all other locations/devices that he must access or install or conduit that he must run.

MISCELLANEOUS:

All circuits in this lighting system (dimmed, relay and/or constant) shall be physically landed in a one-to-one patch from origination to destination. This means that Circuit #X at the dimmer rack must be carried through from there to the JB/GJB indicated to the connector strip/outlet box/misc. other destination as the same Circuit #X throughout. Soft patch cannot be used in order to accomplish proper dimmer routing. Where existing wiring is to be reused, the contractor shall provide all circuit splices and wiring extensions shall be required in order to accomplish a proper 1:1 patch. In the case where there is more than one rack with overlapping numbering schemes (i.e. a dimmer rack and a relay rack), then the numbering shall include a prefix in order to differentiate (i.e. Circuit #D1 would be dimmer rack dimmed circuit #1; Circuit #C24 would be constant circuit #24; Circuit #R12 would be relay rack circuit #12; etc.). The prefix "D" is typically dropped for connector strip or outlet box numbering. Coordinate with the theatrical contractor as required for consistency in all numbering schemes.

Program the architectural control system to pass all necessary DMX channels/values in order to pass and control all intended/indicated fixtures in the system (minimum values are 1 - 2048).

The lighting system equipment must live on a closed loop/dedicated network that shall not be tied into any overall, building-wide network or any network that has pysical tie-ins to the internet or any LAN/WAN networks.

MODEL NUMBERS: Manufacturer model numbers for products are indicated on drawings to provide a full understanding of the system functional intent. See written specifications and the project manual for additional information and requirements for substitutions and procedures.

LIGHTING SYSTEM KEYED NOTES:

Each note indicates a typical location for the type of work to be performed or equipment to be provided. The TC shall provide for all instances of typical work indicated. All drawing notes may not appear or be referenced on each drawing; however, all notes still apply to the work indicated within each note and shall be performed by the referenced contractor(s).

COORDINATION:

1 Meet with the EC (electrical contractor) before the commencement of this project in a formal meeting (with recorded & distributed meeting minutes) where the critical nature of backbox sizes, orientations, locations, etc. is clearly communicated to him. It is preferred that this meeting also have the Construction Manager and any other related contractors in attendance. This meeting may be the kickoff meeting for the project.

SYSTEM SETUP:

2 The lighting system must be fully operational prior to the commencement of

HOUSE & WORK LIGHTING SYMBOLS KEY:

REFER TO THE LIGHTING SYMBOLS KEY & REMOVALS NOTES AS WELL AS ALL OTHER KEYS AND NOTES ON ALL OTHER TL SERIES DRAWINGS FOR MORE INFO ON ADDITIONAL AND RELATED SCOPE OF WORK, REQUIRED COORDINATION, ETC. REVIEW ALL PORTIONS OF THE 19 2000 SPECIFICATIONS SECTION AS IT CONTAINS A LARGE AMOUNT OF INFORMATION REGARDING SCOPE OF WORK AS IT RELATES TO THE THEATRICAL, WORK, ACCENT AND HOUSE LIGHTING SYSTEMS.

FIXTURE DESIGNATION	SYMBOL	ITEM DESCRIPTION	BACK BOX	QTY. SPARES	NOTES
HL-1	⊕	Main Seating Houselighting - CantoUSA RETRO-Fusion 2.0, 700 Watt Incandescent Replacement LED Engine - F2-120-700-X-3.0K-97+3 With TOP-E26-XX-REF-XX-S; ADP-XX; PARXX-XX-XX-XX; DIF-XX-XX & Other Adapters/Accessories As Required. Fixtures Shall Be 3,000°K - 9,489 Lumen & With An Approx. 120° Native Beam Angle & With 5-Year Overall Warranty & 10 Year LED Array Warranty. This Fixture Shall Be A Self-Contained, CRI97, Mains Dimmable Fixture Assembly With An Approx. 72 Watt Energy Consumption (Zero Vampire Load) And Which Can Be Dimmed Via A Standard Dimming Module. Provide With Safety Cable & Support Tabs. Provide With All Required ETR Recessed Houselighting Embedded Housing Frame Ring Assembly Modifications & All New Accessories, Custom Attachment Ring, J-Box/Housing, Screw Base To Match, Custom Trim Ring, Reflector & Diffusor As Required. All Fixtures Are Required To Maintain Their UL/ETL/CE Compliance As Required. See Houselighting Section View Drawing For Approx. Beam Spread Optics Required Per Fixture Location & Provide Short/Tall Reflectors As Required/Indicated. Provide With General E26 Stem Extension (Custom Length As Required-Stem Extensions Cannot Be Stacked). VIF.	Reuse ETR Ceiling Cutout & Recessed Houselighting Fixture/Housing With Modifications.	Provide (5) Fixtures, (5) Fixture Lens Reflectors & (5) Extension Stems Of Each Length Provided.	CantoUSA Retro Fixtures Shall Be Mounted To A New CantoUSA Furnished & EC Installed E26 Lamp Cap/J-Box (Medium Screw Base) That Will Replace The Existing J-Box On Top The ETR Houselighting Housing (Housing Approx. 10" Tall X 13" Diameter). Field Verify All Existing J-Box & Housing Sizes, Attachment Method, Etc. In All Locations & As Required By Manufacturer & Provide Field Verification Mockups, Etc. Prior To Ordering Or Installing Final Devices, Fixtures, Etc. Provide All Extensions Stems (VIF For Lengths-May Vary Per Location. See Details For More Info). Seal Between New J-Box & ETR Housing To Prevent Light Leakage. Protect All Fixtures From Dust/Dirt Infiltration. All Per NEC. All CantoUSA Retro Fixtures Mounted In The Existing Sloped Ceilings As Indicated Shall Have The Bottom Face Of The Related Reflector Sit Just Below/Proud Of The Lowest Point Of The Related Angled Ceiling Surface. Field Verify All Existing Ceiling Slopes, Etc. As Required By The Manufacturer. Set Fixtures Heights As Required Per Overall Retro Fixture Height, Reflector Height, Etc.
HL-2	◔	Stage Thrust Houselighting - CantoUSA RETRO-Fusion 2.0, 300 Watt Incandescent Replacement LED Engine - F2-120-300-X-3.0K-97+3 With TOP-E26-XX-REF-XX-S; ADP-XX; PARXX-XX-XX-XX; DIF-XX-XX & Other Adapters/Accessories As Required. Fixtures Shall Be 3,000°K - 3,416 Lumen & With An Approx. 120° Native Beam Angle & With 5-Year Overall Warranty & 10 Year LED Array Warranty. This Fixture Shall Be A Self-Contained, CRI97, Mains Dimmable Fixture Assembly With An Approx. 30 Watt Energy Consumption (Zero Vampire Load) And Which Can Be Dimmed Via A Standard Dimming Module. Provide With Safety Cable & Support Tabs. Provide With All Required ETR Recessed Houselighting Embedded Housing Frame Ring Assembly Modifications & All New Accessories, Custom Attachment Ring, J-Box/Housing, Screw Base To Match, Custom Trim Ring, Reflector & Diffusor As Required. All Fixtures Are Required To Maintain Their UL/ETL/CE Compliance. Provide As Required. See Houselighting Section View Drawing For Approx. Beam Spread Optics Required Per Fixture Location & Provide Short/Tall Reflectors As Required/Indicated. Provide With General E26 Stem Extension (Custom Length As Required-Stem Extensions Cannot Be Stacked). VIF.	Provide New E26 Lamp Cap/J-Box & Other Fixture Modifications As Required For All ETR Fixture Locations.	Provide (1) Fixture. Provide (2) Fixture Lens Reflectors. Provide (2) Extension Stems.	A Sample ETR Fixture J-Box/Plate/Housing May Need To Be Completely Removed From The Ceiling & Sent To CantoUSA Prior To Fabrication In Order To Confirm All Parameters, & Ensure Proper Fit & Finish. Coordinate With Manufacturer, Etc. & Provide As Required, Including Expert Removal, Additional Trades Assistance, Shipping, Misc. Communications & Coordination, Etc.
HL-3	●	Orchestra Pit Houselighting - CantoUSA RETRO-Fusion 2.0, 500 Watt Incandescent Replacement LED Engine - F2-120-500-X-3.0K-97+3 With TOP-E26-XX-REF-XX-S; ADP-XX; PARXX-XX-XX-XX; DIF-XX-XX & Other Adapters/Accessories As Required. Fixtures Shall Be 3,000°K - 4,824 Lumens & With An Approx. 120° Native Beam Angle & With 5-Year Overall Warranty & 10 Year LED Array Warranty. This Fixture Shall Be A Self-Contained, CRI97, Mains Dimmable Fixture Assembly With An Approx. 49 Watt Energy Consumption (Zero Vampire Load) And Which Can Be Dimmed Via A Standard Dimming Module. Provide With Safety Cable & Support Tabs, Provide With All Required New Recessed Houselighting Fixture Housing, Ceiling Cutouts & All New Accessories, Custom Attachment Ring, Tile Bridges, Screw Base To Match, Custom Trim Ring, Reflector & Diffusor As Required. See Houselighting Section View Drawing For Approx. Beam Spread Optics Required Per Fixture Location & Provide Short/Tall Reflectors As Required/Indicated. Provide With General E26 Stem Extension (Custom Length As Required-Stem Extensions Cannot Be Stacked). VIF. PROVIDE CEILING CUTOUT & FIXTURE HOUSING COMPLETE.	Provide New Ceiling Cutouts & Recessed Houselighting Fixture. Match Existing.	Provide (1) Fixture. Provide (2) Fixture Lens Reflectors. Provide (2) Extension Stems.	Provide New Ceiling Cutouts In ETR/New Gyp/Drop Ceilings To Match Existing As Required For New Fixtures In All Locations. Provide All Required Ceiling Reinforcement, Overhead Supports, Tile Bridges, Spanning Metal, Etc. To Mount In Indicated Locations. See Plan View & Detail Drawings For More Info. VIF For Any ETR Obstructions. Shift Incrementally & Symmetrically To Clear ETR Obstructions.
HL-4	◔	Lift Area Houselighting - CantoUSA RETRO-Fusion 2.0, 150 Watt Incandescent Replacement LED Engine - F2-120-150-X-3.0K-97+3 With TOP-E26-XX-REF-XX-S; ADP-XX; PARXX-XX-XX-XX; DIF-XX-XX & Other Adapters/Accessories As Required. Fixtures Shall Be 3,000°K - 2,103 Lumens & With An Approx. 120° Native Beam Angle & With 5-Year Overall Warranty & 10 Year LED Array Warranty. This Fixture Shall Be A Self-Contained, CRI97, Mains Dimmable Fixture Assembly With An Approx. 17 Watt Energy Consumption (Zero Vampire Load) And Which Can Be Dimmed Via A Standard Dimming Module. Provide With Safety Cable & Support Tabs. Provide With All Required New Recessed Houselighting Fixture Housing, Ceiling Cutouts & All New Accessories, Custom Attachment Ring, Tile Bridges, Screw Base To Match, Custom Trim Ring, Reflector & Diffusor As Required. See Houselighting Section View Drawing For Approx. Beam Spread Optics Required Per Fixture Location & Provide Short/Tall Reflectors As Required/Indicated. Provide With General E26 Stem Extension (Custom Length As Required-Stem Extensions Cannot Be Stacked) If Required. VIF. PROVIDE NEW CEILING CUTOUT & FIXTURE HOUSING COMPLETE.	Provide New Ceiling Cutouts & Recessed Houselighting Fixture.	Provide (1) Fixture. Provide (1) Fixture Lens Reflector. Provide (X) Extension Stems.	All Canto Complete New Housings Shall Match Intent Of ETR Housings & Be Indistinguishable As Different From All ETR Fixtures From Below. Typical Of All Locations.
OWL	OWL	General Stage Overhead High Bay Worklights - ILP Inc. Endeavour 2.0 Linear High Bay LED Floodlight Luminaire: Part # EDV2-30L-U-30-FRL-BL-K-XX-10YR-XX-SMZB KIT EDV-XX. Black, Wide Optic Distribution Pattern Fixture With 3,000°K, Approx. 120° Beam Angle With No Uplight Component, Standard Ambient Temperature, Self-Contained, 80+ CRI, With A 213 Watt Energy Consumption, & An Initial Lumen Rating Of 30,000 Lumens. Dimming Shall Be Approx. 100%-10% Via 0-10V Protocol.	One Gang 3.5" Deep (For Related Power Outlet)	Provide (1)	Surface Mounted In Locations As Indicated To Existing Overhead Steel. Provide Required Mounting Hardware & Attachments As Required To Achieve Fixture Output Straight Down Towards The Stage Floor Area In Order To Evenly Light Entire Stage Floor As Much As Is Possible. Provide Straight Blade Edison Plug On All Fixtures With Wire Whip Cut To Length With Little Slack.
COL	▥	Corridor Overhead LED Houselighting - Provide Lithonia Lighting VT Series Volumetric LED Troffer Fixtures. Provide 2VTL2-40L-ADP-MVOLT-E2B-LP830-UE. Provide With (10-10') Dimming, Tile Bridge, Safety Cable/Chain(s) And All Mounting Accessories As Required. Provide With Approx. 4,000 Lumen LED Array. This Fixture Shall Be A Self-contained, Remotely Dimmable Fixture Assembly With An Approx. 35 Watt Energy Consumption. Fixture Shall Dim To .1%.	N/A	Provide (2)	Flush Mount In Corridor Drop Ceiling. Provide An Independent Safety Cable For Each Fixture To Overhead Structure. Universal Power Supply & 0-10V Interface To Be Located In Each Fixture. Home Run Data Runs As Required. Provide With Dimming Ballast/Controls As Required & Proper Wiring Harness.
	XX	Home Run To Or From A Particular Device (May Also Be A Straight Line Or Splined Line With A Single Or Multiple Arrowheads).			This Designation Indicates A Power, Conduit And/Or Wiring Run From Or To A Device. This Does Not Recommend Or Indicate Any Particular Routing Path; However, All Routing Paths Should Be Common Sense, As Short As Is Possible & Not Circuitous Or Unnecessarily Long Or Detoured.

Houselighting System Symbols Key Notes (Notes Apply To All Lighting Symbols Keys - Other Symbols Keys May Contain Related Required Devices):

All Fixtures Must Be Burned In Prior To Use & Turnover To The Owner, Including All Attic Stock Spare Fixtures. See Other Notes For Required Burn In Durations.

PROVIDE FIXTURES WITH INTEGRATED DMX DRIVERS AS SPECIFIED.

Provide Each House & Work Lighting Fixture With An Approx. 12" Service Loop Of Data Cabling. Manage In Such A Way As To Be Unobtrusive & Unseen From Below For All Pendant Fixtures. Neatly Coil In Loose Arc/Circle & Tie Up. Do Not Put Undue Stress On Cabling. Service Loop Should Typically Be Located Just Above Fixture Can.

All Device Locations Shall Be Coordinated With Other Ceiling, HVAC, ETR Devices, Speakers & Other Obstructions. Shift Houselighting Fixture Installation Locations Incrementally & Symmetrically In Order To Fit With Required Clearances. Maintain Even Light Output At Reading Surface Level Throughout.

Provide Each Houselighting Fixture With A Safety Cable To Overhead Steel As Required Per SED Manual Of Planning Standards 2022 & All Current NEC/ASTM (Black Cable For All Exposed Pendant Style Fixtures). This Requirement Includes Fixtures Mounted Into A Drop Ceiling/Grid Ceiling. All Required Fixture Safety Cabling Must Be New & Routed Directly (Vertically) To Overhead Structural Steel Members. Safety Cables Must Be Load & With Proper Attachments To Overhead Steel. Provide All Required Spanning Members & Misc. Hardware As Required For Proper Supports. Safety Cables Cannot Be Routed Inside Of Any Stem/Conduit.

All Fixtures And Lamps Shall Be 120 Volt Versions.

PROVIDE A FULL (1) ONE YEAR REPLACEMENT WARRANTY ON ALL LED HOUSELIGHTING FIXTURES/DRIVERS. THIS WARRANTY SHALL COVER ALL MATERIALS, ACCESS EQUIPMENT, PROGRAMMING (INCLUDING ANY SPECIALIZED THEATRICAL CONTRACTOR/MANUFACTURER ASSISTANCE) AND INSTALLATION LABOR COSTS ASSOCIATED WITH ANY FAILURE IN THE HOUSELIGHTING LED FIXTURES - SPECIFICALLY THE RECESSED CAN LED'S. ANY FIXTURES THAT FAIL IN THE FIRST 365 DAYS (AFTER OFFICIAL TURNOVER OF THE ROOM - POST ACCEPTANCE TESTS AND COMPLETED PUNCH LIST ITEMS) SHALL BE REPLACED BY THE EC AT NO ADDITIONAL COST TO THE OWNER.

Provide All Wiring Harnesses, Wire Whips, Breakouts, Cable/Signal Distribution, Etc. As Is Required In Order To Daisy Chain The DMX/RDM Feeds Tagged Along From Fixture To Fixture As Indicated.

All LED Houselighting & Accent Lighting Fixtures Shall Be Provided With The Latest Working Firmware/Software Updates Having Been Downloaded Into Every Fixture (Including Spares). Provide All Required Factory Personnel & Programming.

The Contractor Must Completely Clean All Fixture Reflectors Of All Dirt, Dust, Debris And Fingerprints Prior To The Completion Of The Project. This Should Be Performed After All Dirt And Dust Creating Work And All Room Painting Has Been Completed. Protect Reflectors, LED Arrays, Etc. From Damage Or Overpainting During Construction.

Protect All Fixtures, LED Arrays, Reflectors, Etc. From All Paint, Dust, Dirt, Debris Or Other Construction Damage During Entire Installation Period. Remove All Protective Films, Etc. Prior To Turning Room Over To Owner. The Installing Contractor Shall Be Solely Responsible For Any Damage To Fixtures, Overpainting, Etc. That Alters It From Brand New Condition, Even If That Requires Complete Replacements.

Goof Rings May Be Painted By Contractor As Long As They Are Professionally Sprayed & Finished, Especially If Custom Colors Are Required. Provide Goof Rings For All Fixtures As Required By Site Conditions.

All Spare/Attic Stock Fixtures Shall Be Fully Burned In For A Minimum Of (24) Hours At Full Output (Or On A Full Off To Full On To Full Off Continuous Cycle) & Then Repacked By The Contractor Back Into Original Factory Packing, Duly Marked On Box(es) As To Contents, Etc. & Stored Along With Spare Reflectors, Goof Rings, Etc. Per Owner's Requirements For Future Replacement Use.

Canto Retrofit LED Fixtures Must Be Factory Tested For QAQC For A Minimum Of (36) Hours On A Full Off To Full On To Full Off Continuous Cycle. Every Single Fixture Must Be So Tested. Less Than 100% Manufacturer QAQC Testing Shall Not Be Allowed. No Fixtures That Fail This Testing Shall Be Allowed.

GENERAL NOTES:

Do not scale plans.

Field verify all dimensions before ordering material or performing any work. Location of all devices must be coordinated with existing and/or new architectural, mechanical, electrical and structural elements. Where conflicts occur contact the architect, construction manager and consultant in writing for clarification before performing any work.

Where work is critically dimensioned to work provided by others it is the sole responsibility of the contractor to verify the intended location of all other elements with all other contractors by reviewing their shop drawings.

Coordinate all work for symmetrical installation with relation to height and level with architectural elements, switches, outlets, and other controls.

These drawings represent the configuration of a system. They do not in any way constitute instructions for installation except with regards to configuration. The sole responsibility for field verification of dimensions, installation/fabrication methods, code conformance, safety issues and the quality and performance of their work shall be that of the installer.

These drawings are to be interpreted in conjunction with all other drawings in the construction set as well as written specifications for this project. The contents of these drawings does not in any way negate the written specifications nor do the written specifications in any way negate the contents of these drawings.

If there are inconsistencies between written specifications and drawings or between any drawing and other drawings in the construction document set, it is the responsibility of the contractor to obtain clarification before bidding this project. If no clarification has been obtained prior to bid, then the contractor shall abide by the decision of the architect and consultant at no additional cost to the owner even if work has to be redone.

Obtain shop drawings from all related trades to verify the intended configurations and scheduling of all contract work. All contractors are responsible for coordinating their work with other related trades in a manner that avoids conflicts of work, device placements and scheduling.

NOTE:

It is each contractor's responsibility to receive all device shipments, equipment, deliveries, etc. for their own equipment on/at the job site personally. This will require each contractor to carefully coordinate drop-ship delivery dates with manufacturers and trucking companies in order to have adequate personnel on site to inspect, unload and store all shipments. Each contractor shall be responsible to arrange for storage of all received materials on site until the appropriate time when he shall either turn them over to installing contractor or install them himself.

If the contractor chooses to allow a third party to receive shipments on his behalf, then that contractor bears sole responsibility for any missing and/or damaged parts and devices that may need to be reordered or rush freight required to maintain schedule, all at no additional cost to the owner.

Any equipment that is furnished by the receiving contractor but installed by others shall be turned over to the installing contractor at such time as it fits into their production schedule and the project's overall construction schedule.

Any large items such as racks, emergency transfer equipment, etc. shall be transported by the receiving contractor from its storage area and relocated to the general vicinity (i.e. in the room and general area) where it will be installed. At this point in time it shall be turned over to the installing contractor for installation.

DEFINITIONS:

ELECTRICAL CONTRACTOR (EC) - Refers to the prime electrical contractor (divisions as assigned in the front end). The EC shall be providing additional work as shown on the TL, TR and TS series drawings that is indicated as being performed by the EC and in addition to work indicated on the E & other related series drawings.

GENERAL CONTRACTOR (GC) - Refers to the prime general contractor (divisions as assigned in the front end). The GC shall be providing additional work as shown on the TL, TR and TS series drawings that is indicated as being performed by the GC and in addition to work indicated on the A, S & other related series drawings.

THEATRICAL CONTRACTOR (TC) - Refers to the prime theatrical contractor (divisions as assigned in the front end). The TC shall be providing theatrical rigging system & curtains, theatrical lighting systems, theatrical sound, projection, AV, control and other systems equipment as shown on the TL, TR and TS series drawings that is indicated as being performed by the TC.

PROVIDE - Furnish all materials, labor and related services to complete the work indicated.

INSTALL - Provide labor and all miscellaneous materials to make a primary piece of equipment furnished by another contractor ready for use.

FURNISH - Deliver equipment to the site to be installed by another contractor.

ELECTRICAL SCOPE NOTES FOR THE THEATRICAL LIGHTING SYSTEM:

Each note and detail indicator indicates a typical location for the type of work to be performed or equipment to be provided. The referenced contractor shall provide for all instances of typical work indicated. All drawing notes may not appear or be referenced on each drawing; however, all notes still apply to the work indicated within each note and all similar instances of typical work shall be performed by the referenced contractor(s).

Perform all work as described below and on each TL series drawing. All work shall conform to the standards of Divisions 19 & 26 as well as this project's architectural & structural standards, the construction schedule, the current National Electrical Code (NEC) and all other applicable codes and standards.

REFER TO THE 19 2000 SPECIFICATIONS SECTION AND ALL OTHER TL SERIES DRAWING NOTES, KEYS, SCHEDULES, ETC. AS THEY CONTAIN ADDITIONAL INFORMATION REGARDING THE EC'S SCOPE OF WORK AS IT RELATES TO THE THEATRICAL LIGHTING SYSTEM.

The contractor shall perform all electrical work as described below and on each TL series drawing as well as all required work per the manufacturer's approved shop drawings.

It is understood that there may be multiple instances/quantities of devices that are not shown on the contract drawings but that are required in the final configuration per the manufacturer's shop drawings. All contractors are responsible to provide for all required instances/quantities and locations as part of their bid. Consult the manufacturer's shop drawings for all final instances/quantities prior to rough-in and provide for all.

PROFESSIONAL STANDARDS:

The contractor is expected to install all work to the appropriate industry professional standards, manufacturer recommendations and current applicable codes. If any work required exceeds the skills of the contractor, then he shall employ appropriate subcontractors for the scope required.

The acceptability of materials and workmanship shall be determined by the Architect, Consultant and CM.

Any new/removals related work or adjacent/mounting surfaces, etc. that might become damaged, have holes cut into them, receive unsightly scorchmarks, left with holes, etc. due to removals work, become inadvertently oversprayed/painted or become dirty during construction and the installation of the indicated devices will be protected/repaired by the contractor (this includes patching to match existing & painting/repainting all affected walls, ceilings, misc. surfaces, boxes, devices, etc.). All responsibility for protection & patching work shall be by the contractor. The contractor shall provide final cleaning and/or repair of all equipment, patching/painting related surfaces, etc. related to or in their scope to like new (and to match adjacent/surrounding).

The contractor shall attend and/or arrange meetings as required to ensure their scope is coordinated with all other trades. The contractor is responsible to make known to all other trades critically dimensioned items and locations to avoid conflicts. Where conflicts occur, follow required procedures in the project manual to seek resolution.

Where any substandard work is provided by related trades that impedes the work of the contractor, he shall notify the CM, Consultant, Architect or Engineer in writing as called for in the project manual to rectify the issue.

Where work is provided by others, the contractor is responsible to verify installation conditions that relate to his work. If installation of related work is substandard, then the contractor shall generate a written RFI through proper channels based upon the project manual. The contractor shall not install his work to any substandard devices, etc. provided by others until such work has been corrected until the contractor has received written authorization from the construction manager to proceed. If the contractor ignores substandard installation work by others and proceeds to install his devices to these items, then he accepts responsibility to repair, reinstall and correct any found deficiencies to the satisfaction of the owner upon final inspections.

The contractor shall comply with the AHJ (Authority having jurisdiction) as it relates to programming any and all emergency interfaces.

The contractor is expected to possess knowledge of the equipment of his industry and to provide all small items required to install the specified equipment. Provide all small items such as rack rails, DIN rails, rack panels, power cords, connectors, wall-wart power supplies, crimps, nicopress and other items that may not be specifically called out on the drawings or in the specs but are required to support primary equipment.

When in doubt about any aspect of the work, the contractor should not proceed until he obtains clarification from the appropriate entity with authority following procedures detailed in the project manual.

BOXES, CONDUIT & WIRE:

All work must comply with applicable codes, NEC and NYSED requirements.

All output load wiring from the dimmer/relay racks must be 90°C rated copper wire only. Other wiring shall not be allowed.

No conduits and/or wiring shall be allowed to be routed in, around or in such a way as to restrict or obstruct the movement of any rigging system components.

Connector strip/outlet box electrical wiring shall be SO/SJOO/SOOW (or similar equivalent rating as required per NEC and installation location) multi-conductor cabling. Utilize as few multi-conductor cables as is required in order to support NEC & specified circuits (including individual neutrals, etc. and NEC required quantity of grounds). Multiple single circuit SO style cables bundled together shall not be allowed.

Verify exact wiring details, conduit/wire routing paths, etc. with approved factory shop drawing submittals for technical, performance and theatrical systems prior to roughing in any power, conduit or wiring for devices. Some devices have internal lugs, some may require external or additional boxes or outlet devices and some devices may be approved equivalents.

Coordinate the exact locations of all devices with the lighting, rigging, A/V and other theatrical/technical systems clearance requirements, etc. in planning out conduit & cabling paths/lengths. The conduits shown on the drawings are understood to indicate the conduit types, sizes and wiring required only. The exact conduit routing paths and quantities of couplers, elbows, LB's, JB's, misc. pull boxes, support hardware, etc. that are required have not been indicated and must be determined by the contractor prior to rough-in.

Architectural controls & misc. system interface/power boxes: Devices have been shown in suggested yet diagrammatic locations on the plan & shop drawings; however, it is the intent that the owner choose all final actual locations of all devices. Obtain owner sign-offs for all device placements prior to rough-in. Coordinate final locations with existing obstructions.

Mount and locate all indicated equipment per NEC regardless of the visual depiction locations shown on the contract drawings. If a device must have NEC driven clearances, etc. and this prevents mounting the device in or near the indicated location, then locate the device where it needs to be in order to meet NEC.

Any junction boxes that may be needed for conduit/wiring runs in the catwalk, side galleries or on stage shall not be located in inaccessible or buried locations. Conduits shall be located at 7' - 0" AFF on catwalk and side galleries or higher and may not be mounted on any lighting pipe batten, in between lighting pipe positions or any other way that violates any notes or visual depictions shown on the contract documents. Do not encroach catwalk walking area with conduits or loose wiring.

Provide all wiring run in conduit unless specifically noted on these drawings as otherwise. No conduit shall be allowed to be loaded beyond 50% fill.

Provide all devices, conduits, junction boxes, backboxes, wiring, etc. that are required to have a specified rating as devices with those ratings and listings per all applicable codes. This includes CE, UL, ETC, NEMA, plenum ratings, etc.

Terminate all conduits into racks, junction boxes, pull-boxes or other appropriate devices as indicated. No cut off conduits with end bushings and wiring dangling out the end shall be allowed.

Refer to all lighting related notes, drawing arrow notes and written specifications for work clarification and additional scope of work as it regards assembly, installation labor, labeling requirements and/or coordination with theatrical trades. Labeling requirements outlined in the written specifications are extensive and detailed.

Any wiring splices necessary must utilize butt style inline insulated splices crimped with a properly adjusted controlled cycle termination tool. Referenced product Panduit BSV10X-D or equal. Size splices per gauges of wiring to be spliced & provide as required. No incorrectly sized splices shall be allowed.

Labeling: All conduits shall be clearly labeled on each end as to their origin and destination in a simple, logical manner. All junction boxes, switch boxes and backboxes indicated on drawings shall be labeled with the nomenclature indicated on the drawing. All outlet boxes shall be labeled with the corresponding panel and circuit designations they are fed from. Permanent black marker on conduit or junction box face is acceptable on conduits, junction boxes, etc. that will not be painted. If any raised objects are painted, then provide the following: Conduits shall be labeled with 3M Durable ID Labels with permanent adhesive (applied after painting). Junction boxes, etc. shall be labeled with 3M Durable ID Labels with permanent adhesive (except stage devices, which shall be labeled with Lamacoid style engraved labels, permanently affixed to devices). Provide to junction boxes, outlets, etc. shall also be labeled on the back of each cover plate and also with a durable tag inside each box stating the same information. All labeling shall be done with black style letter/numbering by hand or printed. All labeling shall reference the device's designation, conduit originations/destinations, etc. & not be a coded, indexed or legend style referencing system. Masking tape labeling is not allowed.

Painting: The contractor shall be responsible to paint all conduit, JB's, flex/MC, fittings, hardware, misc. related items, strut channel, etc. that are installed in areas, etc. that will be painted. If any raised objects are painted, then provide the following: Conduits shall be labeled with 3M Durable ID Labels with permanent adhesive (applied after painting). Junction boxes, etc. shall be labeled with 3M Durable ID Labels with permanent adhesive (except stage devices, which shall be labeled with Lamacoid style engraved labels, permanently affixed to devices). Provide to junction boxes, outlets, etc. shall also be labeled on the back of each cover plate and also with a durable tag inside each box stating the same information. All labeling shall be done with black style letter/numbering by hand or printed. All labeling shall reference the device's designation, conduit originations/destinations, etc. & not be a coded, indexed or legend style referencing system. Masking tape labeling is not allowed.

Painting: The contractor shall be responsible to paint all conduit, JB's, flex/MC, fittings, hardware, misc. related items, strut channel, etc. that are installed in areas, etc. that will be painted. If any raised objects are painted, then provide the following: Conduits shall be painted flat black paint to match the substrate the items are mounted to, unless other specific instructions have been listed-VIF in writing with owner, architect and CM prior to implementation). Painting shall be required regardless of the contractor's installation schedule, the delivery schedule of related trades and their equipment or the timing of the painting contractor and his work. This includes proper prime paint coats as well as all required covering finish coats. All paint must be appropriate for the device/surface it is applied to. Properly prep all surfaces prior to painting. All paint must be applied professionally without any runs, drips, streaking, blotching, etc. and must present an even final finish coat over the entire surface of the item being painted.

Provide blank cover plates for any switch box or junction box that does not have a specific device plate indicated on the drawings symbols keys. All cover plates shall be provided in a color and style that matches other cover plates in the immediate vicinity of the indicated device or as determined by the owner. Cover plates shall be "form fitting" and shall not have sharp edges that protrude out past edges of backboxes.

All conduits shall be concealed unless specifically called out on drawings as exposed. Any visible conduits and boxes are to conform to general contract requirements and Division 26 for finish and installation requirements.

FLEXIBLE CABLE DROPS:

Flexible cable supports and strain reliefs shall be as follows: Cable entry into raceways, grid iron or other junction boxes (such as for SO type flexible wiring) shall be Hubbell Kellems grips for strain relief, Deluxe liquid tight cable grips (07401 series). Where multiple cables are bundled together provide a separate strain relief for each cable entry and start bundling the cable far enough down the run to avoid conflicts of grips. Cable support (such as overhead or auxiliary support for SO type flexible wiring, power cabling, control wire, etc.) shall be Hubbell Kellems grips for cable support (02206 series) heavy-duty, single eye, double weave grips. Note that both styles of grips MUST be installed over the blunt cut end of the wiring, so coordinate installation of grips with termination of related cabling.

Flexible cables shall be sized to allow proper swag to the rigging system. Coordinate exact length with the rigging system and related set movement/travel and related trades. Do not purchase, install or terminate any flexible cable drops until the length is determined.

Flexible control cable drops for connector strips shall be provided by the contractor. Where these attach to connector strips/outlet boxes (DMX or network distribution) they will need to be bundled with the SO multi-cable. Provide all flexible control cable drops as black jacketed TMB ProPlex or SSRC AES/EBU DMX/DATA style stranded network wiring down to connector strip(s). Solid core wiring is not allowed for flexible data drop cabling.

All circuits are required to have separate hot and neutral conductors. Provide ground wiring as required by applicable code. All circuits shall be calculated for full rated loads, constant-duty, non-diversity, unless otherwise indicated. Size wire gauges and conduit to allow for full load operation after taking into account all derating for distance, voltage drop and other conditions required by the NEC, the New York State building codes and any applicable local codes.

Provide all low voltage control cabling pulled in and out of conduit as indicated on drawings. Do not pull any wire until submittals and lighting shop drawings have been approved & issued. Verify all wire types, quantities and routing with the approved submittal shop drawings.

Where low voltage wire is indicated on the drawings, either in conduit or in walls, ceilings or chases, this wire shall be provided with at least 3' excess wire at each end unless otherwise indicated on the drawings. Secure ends of all pulled wire to prevent accidental removal or damage during construction. Label all low voltage cables as to their origin and destination and tuck into back boxes to protect from damage and until final termination by the factory technician. Coordinate availability on site when the wiring is to be terminated to assist with any problems encountered by the factory technician. Provide continuous pull strings in all conduits even after all indicated wire is pulled.

Where conduit is indicated with no wire called out on the drawings, provide the conduit with a pull string. Provide continuous pull strings in all conduits, tied off at both ends, even after wire has been pulled. Wire must be able to be pulled through the conduits without exceeding the pull spec of the specified wiring. Typical pulling tension for cables of this type is between 35 and 50 lbs. tension.

In some areas wiring may be called out as CL3 not in conduit. In these areas provide adequate attachment and support to protect the cable from potential damage using the best routing. Wiring may not be left lying loose in any area unless fully protected (i.e. Inside a wall).

ELECTRICAL SCOPE NOTES FOR THE THEATRICAL LIGHTING SYSTEM - CONTINUED:

Install all Category 5 or higher cabling noted on these drawings in accordance with all applicable ANSI/TIA/EIA standards and recommended practices as it relates to cable run lengths, cable pull tension, minimum bend radii, etc. Any damaged or non-functional cabling installed and found to be defective shall be completely replaced the installing contractor's own cost.

Do not coil excess category cabling (with the exception of minimal service loop as indicated).

All category & data cabling in visible/ceiling/cloud cavity areas or routed alongside SO cabling on stage must be black jacketed cabling. All category cabling in sensitive architectural areas must be a matching/complementary jacketed cable color (based on adjacent surfaces) and as directed by the architect/owner. All category/data cabling must be neatly routed along existing structural or contractor provided supports and tied up every 18" unless otherwise noted.

Radius all conduits where possible. Conduit runs are not to exceed 180 degrees of radius bend. Where elbows and pull boxes are unavoidable, locate these in easily accessible locations not requiring special equipment to reach. Any elbows used must be sweeps and must be accessible without the use of special equipment. If more than 180 degrees of bend is required, Provide accessible pull boxes. Provide as-built drawings that clearly indicate the exact locations of all pull boxes with dimensions, conduit routing paths with dimensions and all junction/termination boxes.

Provide all power circuits indicated on TL, TR, and TS drawings and associated conduit, backboxes, wire, termination and duplex outlets. Termination of these outlets will be to panel boards as indicated on E-series drawings. These outlets may also be indicated on E series drawings. Check TL and E drawings and verify there is no duplication of devices. Some outlets are to be installed in racks - coordinate with the theatrical contractor for exact locations within each rack.

Fire stop all penetrations in fire rated assemblies resulting from the work of this contract.

Provide acoustic caulk infilling and professional finishing on both sides of any acoustic wall, floor or ceiling or any that is shared with the auditorium or related ancillary spaces that has been penetrated by lighting system related conduit, cabling or wiring.

INSTALLATION OF EQUIPMENT:

Install system devices, feeder cabling, racks, wiring, etc. as delineated on the Theatrical Systems Scope Delineation matrix/schedule and/or as directed included on these drawings. All items bearing the mark "X" in the column are the responsibility of the indicated contractor to perform.

Completely infill around all conduit penetrations into and out of the dimmer, CR, ELTS or other lighting related racks, etc. which penetrate floors, walls, mezzanines, acoustic isolation barriers/assemblies, common walls with the performance space, etc. in a cosmetically pleasing fashion and per the architect's instructions. Infill material may be spray foam and/or acoustic caulking; however, installation methods must be neat, professional and without excess material spilling over into any racks or related hardware. Any infill spray used must include proper masking, cleaning of excess spatter, etc. prior to terminations and energization.

All attachment methods for equipment to conform to Division 26 and Division 19 specifications.

If owner input and written sign-offs are not obtained on device locations prior to rough-in as indicated, then the contractor will relocate all improperly located devices, conduit & wire as required at no additional cost to locations as chosen by the owner.

Any time the contractor is working in the attic space above a ceiling (plaster, gyp, grid, wood, etc.), he is responsible to follow all OSHA protocols and to provide all temporary planking, plywood, walking/work platforms, misc. tie-offs, slip resistors or any other means required to ensure a safe working environment is maintained at this attic space and in order to access the fixtures, JB's and all other locations/devices that he must access or install or conduit that he must run.

ACCEPTANCE TESTING:

Prior to system turn on, perform all manufacturer required procedures for Field Service Technician arrival and system energization/turn on, including, but not limited to, feeder cable termination, dimmer rack access & secure mounting, dimmer rack air gap sealing, branch & load circuit terminations complete, control wiring runs match manufacturer shop drawings, etc.

Have a representative on sight during final system test to provide assistance with any line or load wiring problems encountered.

ELECTRICAL SCOPE KEYED NOTES FOR THE THEATRICAL LIGHTING SYSTEM:

A — Each note indicates a typical location for the type of work to be performed or equipment to be provided. Provide for all instances of typical work indicated. All drawing notes may not appear or be referenced on each drawing; however, all notes still apply to the work indicated within each note and shall be performed by the referenced contractor(s).

Branch circuits indicated are for the dedicated use of the specified system. No other connections may be made or branches added to these circuits. Each circuit must have a separate hot, neutral, and ground conductor. Conduit grounds are not acceptable substitutes for these circuits. All wire to be THHN stranded with gauge as required by NEC. All grounds to be #10 minimum THHN stranded copper. Where ISO ground panels are provided the THHN ground wire shall be utilized for the ISO ground. Building ground to switch boxes on ISO ground circuits as required by NEC.

Neutrals and grounds may not be shared with any other circuits.

The branch circuits indicated are to be installed as indicated. Coordinate with the appropriate contractor where connections are to be made within racks and equipment furnished by others to provide well timed construction progress.

B — All circuits in this lighting system (dimmed, relay and/or constant) shall be physically landed in a one-to-one patch from origination to destination. This means that Circuit #X at the dimmer rack must be carried through from there to the JB/GUB and to the connector strip/outlet box/misc. other destination as the same Circuit #X throughout. Soft patch cannot be used in order to accomplish proper dimmer routing. Where existing wiring is to be reused, the use of inline but splices and wiring extensions shall be required in order to accomplish a proper 1:1 patch. In the case where there is more than one rack with overlapping numbering schemes (i.e. a dimmer r

Theatrical Systems TC/EC Contract Responsibility Matrix

THEATRICAL LIGHTING	Furnished By TC	Provided By TC	Installed By EC	Provided By EC	NOTES
IT IS UNDERSTOOD THAT THERE MAY BE MULTIPLE INSTANCES/QUANTITIES OF DEVICES LISTED BELOW AND/OR THAT ARE NOT SHOWN ON THE CONTRACT DRAWINGS BUT THAT ARE REQUIRED IN THE FINAL CONFIGURATION PER THE MANUFACTURER'S SHOP DRAWINGS. ALL CONTRACTORS ARE RESPONSIBLE TO PROVIDE FOR ALL REQUIRED INSTANCES/QUANTITIES AND LOCATIONS AS PART OF THEIR BID. CONSULT THE MANUFACTURER'S SHOP DRAWINGS FOR ALL FINAL INSTANCES/QUANTITIES PRIOR TO ROUGH-IN AND PROVIDE FOR ALL.					
ASBESTOS, LEAD, VERMICULITE & OTHER HAZ MAT ABATEMENT & MISC. PENETRATIONS/EXCAVATIONS SHALL BE BY ABATEMENT CONTRACTOR OR SUB-CONTRACTOR. SEE DRAWINGS FOR INSTANCES. COORDINATE AS REQUIRED FOR ANY HAZ MAT PENETRATIONS, ETC. RELATED TO THE NEW LIGHTING SYSTEM INSTALLATIONS.					
Item # Description (See schedules & notes for more information):					*Misc. related notes*
1 Patching to match existing for all affected, adjacent or related mounting surfaces, etc. that might become damaged, have holes cut into them, receive anchorages, be left with holes, etc. due to removals or new installations work.		X		X	Each contractor is responsible to patch to match existing for all surfaces affected by his scope of work. See drawing & spec notes, professional standards notes, etc. for more info & requirements.
2 Existing lighting system removals & protections work (See drawing notes for a complete breakdown - this includes switches, fixtures, outlet boxes, wiring, power receptacles, etc.). This also includes legal disposal of all removed devices.		X		X	There will be related electrical & coordination work.
3 Existing House lighting system removals (fixtures, framework, conduits, wire, new CANTO USA replacement LED engines, existing fixture modifications, misc. new lamp caps/JB's, tie-ins, power, whips, etc.)		X		X	This will require extensive VIF work as well as all required/indicated modifications, etc. See details and drawing notes for more info.
4 Existing audio, video & lighting system protections (in house, control booth, front side corridors, stage and misc. related areas)		X			Protect all ETR systems equipment in or adjacent to work areas. There are no planned changes and/or additions to these systems.
5 Relay, dimming & architectural control equipment locations. Generic locations are shown on the drawings as suggested ballpark locations. ALL final exact locations must be determined with the owner & adjacent obstructions PRIOR to rough-in. Coordinate as required.		X		X	Obtain all new device location owner preferences in writing. This is not optional. Locations shown on drawings are simply diagrammatic in nature and are not intended to be final locations.
6 Painting Work: Only for TC provided devices such as misc. support items, Unistrut spanning/bridging metal, pipe battens, misc. beam clamps, misc. threaded rod, etc. as is shown on drawings as being provided by the TC. Typically devices shall not be allowed in their "natural" shiny, gray or otherwise unpainted condition. All devices shall be painted to match and/or as indicated. VIF for color and provide as required.		X			The TC shall not be responsible for painting devices, hardware, etc. provided by others.
7 Painting Work: All Conduit, backboxes, misc. hardware, clips, hangers, LB's, JB's, strut and all other devices, etc. as is shown on drawings as being provided by the EC. Typically Conduit, backboxes, etc. shall not be allowed in their "natural" shiny, gray or otherwise unpainted condition. All shall be painted to match and/or as indicated. VIF for color and provide as required.				X	This includes but is not limted to Unistrut, threaded rod, conduit, backboxes, etc. or other misc. supports provided by the EC for all of his work relating to the theatrical and house/work lighting systems (excepting flush mounted and buried/hidden devices, conduits, etc.).
8 Category wiring system certification report				X	Furnish prior to turnover to related theatrical prime or subcontractors.
9 All box, connector strip or other cabling junction cable fittings				X	Provide as required per entry cable type, size & configuration.
10 All coordination with related trades & building equipment as it relates to the theatrical systems equipment, required installation locations, exclusion zones, conduit/wiring routings, etc.		X		X	Both contractors share equal responsibility to coordinate their work, to be informed of how their work may impact that of others & related systems, and to shift/relocate their equipment installation locations in order to accommodate those of the lighting/rigging systems equipment shown on these drawings.
11 Proper DMX/Data/Network wiring, terminations, labeling, pin out assignments, cable terminations, cable jacket cutbacks and heat shrink wrappings, etc. (this includes ALL high and low voltage terminations work - architectural control systems, network distribution, DMX/data wiring, misc. gateways, EM feeds, houselighting & workglighting systems and related fixtures/data terminations, boxes, raceways, etc.). Each contractor must download all current applicable manufacturer data sheets/installation instructions that relates to his work, understand and follow those instructions and provide a fully compliant and functional system, including all labeling.		X		X	Both contractors share equal responsibility to ensure that their power and low voltage terminations work meets with all applicable published standards, codes and methods of practice by all applicable governing and standard setting authorities & organizations. No wiring shall be accepted that violates any of these or manufacturer recommended practices.
12 TC low voltage (LV) terminations expert assistance. This is a single site visit for a maximum 4 hour session to train the EC on proper low voltage terminations for DMX, Data, Network, Houselighting, misc. LV control interface devices, etc. terminations, cable dress, shielding integrity, heat shrink practices, etc. for all related LV terminations that are part of the theatrical, house & work lighting systems work on this project.		X			This does not include nor imply the TC doing the EC's LV terminations work. This is a training and assistance session on how to properly terminate the various related types of LV cabling that are part of the lighting system work so that the entire system functions properly and without error.
13 Relay Rack (RR-X) - Rack, Doors, Breakers, Etc.	X		X		
14 Relay Rack (RR-X) - Main Circuit Breaker	X		X		
15 Relay Rack (RR-X) - Accessories (Door, UPS kit, RideThrough, UL924, etc.)	X		X		
16 Relay Rack (RR-X) Power Terminations - all				X	
17 Relay Rack (RR-X) Low-Voltage Control Terminations (internal)		X			
18 Dimmer Rack (DR-X) - Including Main Control Processor, Dimmer/Relay or other specialty modules, AFM's, etc.	X		X		
19 Dimmer Rack (DR-X) Power Terminations - all				X	
20 Dimmer Rack (DR-X) Low-Voltage Control Terminations (internal)		X			
21 Dimmer Rack (DR-X) Vibration ISO Pad	X		X		
22 Dimmer Rack (DR-X) Power Terminations, Circuit extensions, inline butt splices, circuit verification, wire labeling, etc. - all				X	This includes, but is not limited to, new conduit, wiring troughs/raceways, etc. required to route cabling as required/indicated.
23 Sensor Battery Pack	X		X		
24 Sensor Battery Pack (batteries, internal components, etc.)	X		X		
25 Sensor Battery Pack (conduit, wiring, terminations, etc.)				X	
26 All rack circuiting assignments, destinations, etc.	X		X		All circuiting must be routed and installed per drawings.
27 Mains & Sub Panels (Electrical Panels, Breakers, Disconnects, Etc.)				X	See Electrical Drawings
28 Transformer(s) - All lighting system related required (K-Rated, HMT, etc.)				X	Includes conduit, wiring, raceways, etc.
29 Feeder Conduit & Wire - All Racks				X	Includes conduit, wiring, raceways, etc.
30 Horizontal/Vertical Wireways, Raceways, Etc. - All lighting system related (HR-X, VR-X, etc.). These devices may not appear on the drawings but are typical above racks, etc.				X	Provide as required to route all cabling.
31 Acoustic caulking of all conduit/wire penetrations of acoustic or support assemblies (walls, ceilings, beams, partitions, etc.)				X	For all required conduit & wiring runs.
32 Conduit, related supports, couplers, pull boxes, routing, coordination for acceptable installation locations, etc.				X	All required conduit for all wiring runs.
33 Conduit, Junction & Back Box Labeling (for all lighting devices)				X	Label every related conduit, junction box, misc. box, etc. as indicated (including any ETR). All required conduit for all wiring runs.
34 Conduit, pull strings, related supports, couplers, pull boxes, routing, coordination for acceptable installation locations, etc.				X	All required conduit for all wiring runs. Provide pull strings in all conduit for future use.
35 Lighting Equipment Labeling (all devices)		X			To match contract drawing nomenclature in all instances.
36 Line & Load Wiring - All Power, relay and dimming circuits				X	Includes installation of wiring into and out of lighting equipment and devices
37 All power terminations inside all devices				X	
38 All power termination/extension butt splices - all locations (wire nuts are not allowed anywhere in the lighting system)				X	WAGO devices are acceptable.
39 Load wiring - Branch circuits all locations				X	Single, Duplex, Quad, etc.
40 Low Voltage Control Wiring - All types for "at height" locations (DMX, Data, Network, RS-X, misc. other LV protocols, etc.)				X	Must be performed per TC's instructions and per all applicable and referenced codes, best practices, etc.
41 Low Voltage Control Wiring Terminations - All types for locations inside racks, lighting system outlet boxes, connector strips, etc. (except 0-10V).		X			The TC will not terminate 0-10V wiring anywhere.
42 Low Voltage Control Wiring Terminations (all other locations & all those not listed as being provided by others)				X	Must be performed per TC's instructions and per all applicable and referenced codes, best practices, manufacturer's requirements, etc. The EC will terminate all 0-10V wiring everywhere.
43 General Device Backboxes				X	All unless noted otherwise.
44 Lighting Device Backboxes				X	Some rare backbox exceptions exist. See Symbols Keys for exceptions.
45 Exact Size Lighting Device Backboxes (those where backbox must be the exact size of the related faceplate-typically surface mount locations). VIF and from contract drawings.	X		X		Turn over to the EC for installation on his schedule.
46 Single, Duplex, Quad and other power Outlets (Devices & Faceplates)				X	Colors & style must match those for the lighting system and as indicated.
47 Junction Boxes (LJB-X's, JB's, CJB-X's, PJB-X's, etc.)				X	All power/control junction boxes included. Misc. as required. Not all shown on drawings.

Theatrical Systems TC/EC Contract Responsibility Matrix

THEATRICAL LIGHTING	Furnished By TC	Provided By TC	Installed By EC	Provided By EC	NOTES
Item # Description (See schedules & notes for more information):					*Misc. related notes*
48 Gridiron Junction Boxes (GIJB's & GIJB-X's)	X		X		
49 Gridiron Junction Boxes mounting Unistrut, Kellums grips, etc.				X	
50 Gridiron Junction Boxes mounting Unistrut painting.				X	All Unistrut, hardware, etc. to be painted flat black in all locations.
51 Misc. Lighting Outlet Box (FB-X floor box, WB-X/WOB-X wall box, etc.	X		X		
52 DIN-X or other DIN rail boxes (standalone devices/boxes)	X		X		May not be shown. Provide as required.
53 DIN rail equipment (internal rack/rail mounted devices)		X			May not be shown. Provide as required.
54 DIN-X box or other DIN rail Low-Voltage Control Terminations		X			May not be shown. Provide as required.
55 DIN-X or other DIN rail box Power Terminations (separate external box)				X	Fed from external power source.
56 DIN rail Power Terminations (inside rack)		X			Fed from internal rack power.
57 DIN-X (Installation Series data distro box) power, outlet & terminations				X	
58 DIN-X (Installation Series data distro box)	X		X		Box sized per required/specified equipment.
59 DIN-X Equipment (Mounted Inside Rack). This includes misc. power supplies, switches, panels, data distro, panels, gateways, misc. hardware, rack screws, etc. required to install all system components.		X			
60 DIN-X Equipment (Mounted Inside Separate Standalone Box). This includes box enclosure, misc. power supplies, switches, data distro, gateways, venting aids, misc. hardware, etc. required to install all system components.	X		X		EC to mount box and provide all conduit, wire, power, etc. to box. All internal components to be installed, wired, etc. by the TC.
61 DIN-X Low-Voltage Terminations (inside rack)		X			
62 DIN-X Power Terminations				X	
63 DIN-X Cable Management, Service Loop, Door Swag, Etc.		X			Includes lacing bars, Velcro ties, etc.
64 CEOB-X/SEOB-X/TEOB-X Box (and all similar) - permanent wall mount	X		X		
65 CEOB-X/SEOB-X/TEOB-X Box (and all similar) - batten mounted		X			
66 CEOB-X/SEOB-X/TEOB-X Box (and all similar) Power Terminations				X	
67 CEOB-X/SEOB-X/TEOB-X Box (and all similar) Low-Voltage Terminations (internal & in CR Rack)		X			
68 CEOB-X/SEOB-X/TEOB-X Box (and all similar) - Verification of all circuit functionality		X		X	Work together for complete verification
69 CR Rack (Communications Rack-typical)	X		X		Size as required. Provide multiple racks as/if needed.
70 CR Rack Low-Voltage Terminations (inside rack)		X			
71 CR Rack Power Terminations				X	
72 CR Rack Equipment (Mounted Inside Rack). This includes architectural control brain, misc. system power supplies, all rack lights, switches, panels, power/data distro, brush panels, legends, gateways, whole rack UPS and extended battery life kit as well as all blank/vent panels, doors, drawers, adapter mount ears, fan kits, venting aids, misc. hardware, rack screws, etc. required to install all system components.		X			Rack sized per required/specified equipment.
73 CR Rack Duplex/Quad Power Outlets in back pan				X	
74 CR Rack Low-Voltage Terminations (inside rack)		X			
75 CR Rack Power Terminations				X	
76 CR Rack Cable Management, Service Loop, Door Swag, Etc.		X			Includes lacing bars, Velcro ties, etc.
77 DMX Data cabling, conduit, etc.				X	
78 DMX Data low-voltage cabling termination (inside racks & connector strips/wall boxes)		X			
79 Misc. DMX and other lighting system related data input/output faceplates (DMX, DMX-O, DMX-I, DMX-02, etc.).	X		X		TC furnishes plates for the EC to install.
80 DMX/Network Data control cabling, conduit, etc. - all				X	
81 DMX/Network Data low-voltage cabling terminations (DMX, DMX-O, DMX-I, DMX-02, etc.) inside racks & connector strips/outlet boxes		X			TC provides all terminations inside racks, boxes, etc. that are not "at height" (those below 8' AFF).
82 DMX/Network Data low-voltage cabling terminations (DMX, DMX-O, DMX-I, DMX-02, etc.) all other locations & all those not listed as being provided by others				X	EC provides all "at height" terminations (all locations above 8' AFF).
83 0-10V Gateways, rack panels, etc.		X			Mounted inside CR rack. Provide enough 0-10V gateway devices in order to power all system 0-10V outputs required.
84 0-10V Wiring & Terminations - All locations regardless of where they are located (at height, in boxes, in racks, at fixtures, etc.				X	The EC is responsble to provide, pull and terminate all 0-10V wiring.
85 DMX Gateways, rack panels, etc.		X			Mounted inside CR rack. Provide enough DMX gateway devices in order to power all system DMX outputs required.
86 ERn2/ERn4/ERn4-D (Architectural control processor and related devices-typical). External wall-mounted or DIN Rail mounted.	X		X		
87 ERn2/ERn4/ERn4-D (Architectural control processor and related devices-typical). Internal rack mounted only.		X			
88 ERn2/ERn4/ERn4-D Control Terminations (internal)		X			
89 DEBC DMX Emergency Bypass Controller	X		X		
90 DEBC DMX Emergency Bypass Low Voltage Terminations		X			
91 DEBC DMX Emergency Bypass Programming		X			
92 DEBC DMX Emergency Bypass Power				X	
93 DMX/s-ACN Distribution devices (DMX data, streaming ACN, etc.)		X			
94 Lighting Network Switches (switch(es), power supplies, PoE, brush panels, patch panels, lacing bars, etc.)		X			
95 EDBK - Emergency Bypass Detection Kit	X		X		
96 EDBK - Emergency Bypass Detection Low Voltage Wiring Terminations		X			
97 EDBK - Emergency Bypass Detection System Programming		X			
98 ELTS2 - Emergency Lighting Transfer Switch	X		X		
99 ELTS2 - Emergency Lighting Transfer Switch Power				X	
100 ELTS2 Programming		X			
101 ELTS2 Testing & Verification		X		X	Work together & in conjunction with AHJ
102 Lighting System Sense Feed Breaker(s), Box, Disconnect, Etc.				X	Includes panel, breaker, conduit, wire, etc.
103 Lighting System Sense Feed Conduit/Wiring, Etc.				X	
104 UL924 - Emergency Lighting Interface Contact From FACP				X	
105 UL924 - All Related Data, Nodes, Misc. Interface Equipment, Etc.				X	
106 UL924 - Programming		X		X	Work together & in conjunction with AHJ
107 UL924 - Testing & Verification		X		X	Work together & in conjunction with AHJ
108 Fire Alarm Control Panel Interface Conduit, Cards, Relays, Nodes & Wiring (FACP)				X	Includes everything required
109 Fire Alarm Interface Terminations				X	
110 Fire Alarm System Manufacturer Interface, Labor, Programming, Etc.				X	Includes all costs associated with coordinating with the fire alarm system manufacturer, local servicing agents, AHJ interface, system additions for contact triggers, etc. as required.
111 All EM (Emergency) System power, conduit, wiring, etc.				X	
112 Lighting Control System Testing		X			
113 WAP (wireless access point) for Lighting system control	X		X		Mount for optimum reception.
114 Blocking for WAP mounting (if required)				X	
115 ETCPad & Apps		X			Includes purchase, installation, setup, programming and implementation.
116 ETCPad & Misc. wireless remote control coordination with the IT department, permissions, programming, etc.		X			
117 Lighting Control Console And All Accessories (Littlelights, extension cords, data/control cabling, outlet strip, keyboard, mouse, USB hub, memory sticks, etc.)		X			
118 Lighting Control Console UPS		X			
119 Lighting Control Console Screens		X			
120 Lighting Control Console Misc. mounts, hardware, countertop cutouts, etc.		X			
121 Lighting Control Console Programming & Implementation		X			
122 Lighting System and Controls Commissioning (with factory technician)		X			
123 UH Series Architectural Controls (UH10001, UH10002, UH10005, etc.), P-LCD (PTS7, etc.) and Fader Series Wall Stations (UH30407, UH61312, etc.) or other misc. related architectural style control stations - low voltage wiring terminations (everywhere these occur-faceplates, racks, etc.)		X			
124 P-LCD Station(s)		X			
125 P-LCD Station Wall Mounted Backbox (surface or flush)	X		X		
126 P-LCD Station Portable Consolette Backbox		X			
127 P-LCD Station touchscreen labeling, layouts, programming, implementation, etc.		X			
128 Pushbutton and Fader Series Wall Stations labeling, programming, implementation, etc.		X			

Theatrical Systems TC/EC Contract Responsibility Matrix

THEATRICAL LIGHTING	Furnished By TC	Provided By TC	Installed By EC	Provided By EC	NOTES
Item # Description (See schedules & notes for more information):					*Misc. related notes*
129 Pushbutton and Fader Series Wall Stations (UH Series Architectural Controls Or Other Misc. Related Controls)		X			Understood to be the devices mounting into the EC provided backboxes.
130 Pushbutton and Fader Series Wall Station (UH Series Architectural Controls Or Other Misc. Related Controls) Programming		X			
131 Pushbutton and Fader Series Wall Station Installation Locations		X		X	Both contractors must work in conjunction with the owner and get owner approved locations for all device locations prior to rough-in. Coordinate as required with all other trades, wall finishes, etc.
132 RN Plug In Station		X			
133 Dual Port DMX Gateway (D2N, CS series, etc.) mounted inside another device as noted.		X			Some will be furnished by the manufacturer and pre-mounted inside the raceways, connector strips, outlet boxes, etc.
134 All other multi-port DMX Gateways (DIN mount, rack mount, etc.)		X			
135 CS NET (connector strip network input) devices		X			
136 N and 2N Devices (network inputs)		X			
137 ND Grid Boxes (network drop boxes)	X		X		
138 ND Grid Boxes (internal wiring terminations)		X			
139 NPB-X Boxes (network pull boxes)				X	There are to be no connections/splices inside these boxes.
140 DD Grid Boxes (DMX drop boxes)	X		X		
141 DPB-X Boxes (DMX pull boxes)				X	There are to be no connections/splices inside these boxes.
142 Software Preset Programming (all related lighting control software)		X			
143 Connector Strips		X			
144 Connector Strip Assembly (unfolding, assembling, checking internal connections, etc.)		X			
145 Connector Strips Installation to Stage/House battens, catwalks or walls		X			
146 Connector Strip Power Terminations				X	
147 Connector Strip Low-Voltage Terminations (internal)		X			
148 Connector Strip - Verification of all circuit functionality		X		X	Work together for complete verification
149 Flexible SO Cable (Includes SO, SOOW, SJOW, etc. - typical)				X	Black, flexible multi-conductor cabling.
150 Flexible Data Cable (Velcro tied to SO cabling)				X	Black flexible tactical style data cabling.
151 Kellems Grips - All except as noted				X	
152 Velcro cable wraps to tie data wiring to SO cabling				X	Black Velcro wraps only - Wire ties are not allowed under any circumstance.
153 Cable Dress for all cabling not in conduit		X		X	Work in tandem to obtain best cable tracking, proper lay relative to rigging equipment, etc.
154 Theatrical Lighting Fixtures (and all related bum in, lamps, spares, attic stock, yoke markings, lensing, gel frames, gobos, holders, etc.)		X			
155 Portable Stage Lighting Cables, Breakouts & all accessories		X			
156 House & Work Lighting Fixtures General Note: All fixtures as noted below and in the Houselighting & Worklighting Symbols Key(s), unless they are specifically indicated as being furnished and/or provided by the TC or others. These will include but not be limited to all fixtures designated as HL-X, SEML, C-WL, OWL, OPL, CBL, E-UB-X, ACC-L-X, GL-L-X, BS-HL-X, EM-X, S-WL-X, CH-X and other similar designations.				X	See Contract Drawing Schedule & all relevant symbols keys. Includes all labor, verified bum in, reboxing, etc.
157 Spare attic stock for all non-theatrical lighting fixtures HL-X,OWL, COL, etc. (Canto LED replacements, stem extensions, power supplies, etc.). This includes categories below such as houselights, misc. worklights, accent, stage marker, glass wall lights, etc.				X	See Contract Drawing Schedule. Includes all labor, verified bum in, reboxing, etc.
158 Houselighting fixture HL-X, etc., etc. locations & plenum status of ceiling areas				X	The EC is solely responsible to determine the plenum status of every ceiling in which he is installing houselighting fixtures and to provide plenum rated versions of the indicated fixtures everywhere they are required per code.
159 Houselighting Fixtures HL-X misc. required hardware (including tile bridges, sloped ceiling adapters, supports, safety cables, bum in, etc.)				X	See Contract Drawing Schedule
160 Houselighting HL-X, etc. - Programming of all & incorporation into control systems		X			
161 Houselighting HL-X, etc. - Misc. Power/Control Junction Boxes				X	
162 Houselighting Fixture HL-X, etc. Firmware Check/Updates				X	
163 Houselighting HL-X, etc. Branch Circuit wiring				X	
164 Houselighting HL-X, etc. Control wiring				X	
165 Houselighting HL-X, etc. Control wiring terminations at fixture (Network, DMX, etc.)				X	Must be performed per TC's instructions and per all applicable and referenced codes, best practices, etc.
166 Houselighting HL-X, etc. 0-10V address range assignments		X			Address range provided to EC by TC
167 Houselighting HL-X, etc. 0-10V addressing (at fixture if required)				X	Coordinate Address range with TC list.
168 Houselighting HL-X, etc. DMX address range assignments		X			Address range provided to EC by TC
169 Houselighting HL-X, etc. DMX addressing (at fixture if required)				X	Coordinate Address range with TC list.
170 Houselighting LED retrofit fixtures HL-X, etc., JB's, cowlings, housings, adapter plates, power/data feeds, safety cables, socket extenders, excavations, existing fixture modifications as required per manufacturer, patching, repairs, etc. (Canto USA or equal, etc.)				X	Includes all labor, spares, bum in, etc. See Contract Drawing Schedule.
171 General Stage Worklighting Fixtures (OWL, HB high bays, ZL-X style strip/box fixtures, bum in, etc.)				X	Low/High Bay, overhead linear & wall mounted style fixtures. See Contract Drawing Schedule.
172 General Stage Worklighting - Misc. Power/Control Junction Boxes				X	
173 General Stage Worklighting Firmware Check/Updates				X	
174 General Stage Worklighting Fixture supports, installation, etc.				X	Includes Unistrut, Threaded Rod, Etc.
175 General Stage Worklighting Branch Circuit wiring				X	
176 General Stage Worklighting Control wiring & related terminations (at fixtures)				X	Must be performed per TC's instructions and per all applicable and referenced codes, best practices, etc.
177 General Stage Worklighting Control wiring related terminations (inside racks-except 0-10V as noted)		X			
178 General Stage Worklighting addressing (DMX, 0-10V, etc.)				X	Coordinate Address range with TC
179 Owner Training		X			
180 DVD Training		X			
181 Followspot fixtures		X			
182 Followspot fixture gels, boomerangs, setup, installation, etc.		X			
183 Closeout and Punch List		X		X	Both contractors shall have closeout responsibilities and documentation required.
184 Cleaning of all lighting related devices (housings, lenses, barrels, displays, connectors, internal parts, fans, reflectors, filters, boxes, power/data outlets, etc.). Completely rid fixtures of any and all construction debris, dust, etc.		X		X	Both contractors are responsible to clean equipment they have installed prior to turnover.
185 Portable cabling storage tote system, labeling, misc. related devices, inventory, etc.		X			Rolling bins are not an acceptable or equal substitute for hand carry tote system.

NOTE: In all categories where "Provided By" is checked for more than one contractor, it is understood that all indicated contractors bear equal responsibility to work in unison in order to satisfy the design criteria set forth in the contract documents.

Notes & descriptions indicate both general and specific areas of responsibility. See other drawings, other related drawing notes and drawing details for additional information and requirements as they pertain to each category listed above. Disregard any line items inadvertently left in this list that do not apply to this project.

Shall	Indicates that the contractor must perform work and provide devices as indicated. This is a mandatory, obligatory, contractual requirement and is not optional in any way.
Furnish	Supply and deliver items to the appropriate trade responsible for installation. Deliver to the site to a loading area agreed upon with the installing contractor.
Install	Unpack, move from loading area to installation location. Mount and connect equipment and associated items and make ready for use.
Provide	Procure all required materials, labor, coordination and equipment and locate, install, connect and test ready for use.
Remove	Safely disconnect equipment, including any and all wiring, hardware, conduit (except concealed), anchors, suspension hardware, etc. and legally dispose of items not called out to be offered/returned to owner or to be reinstalled.

GENERAL NOTES:

Do not scale plans.

Field verify all dimensions before ordering material or performing any work. Location of all devices must be coordinated with existing and/or new architectural, mechanical, electrical and structural elements. Where conflicts occur contact the architect, construction manager and consultant in writing for clarification before performing any work.

Where work is critically dimensioned to work provided by others it is the sole responsibility of the contractor to verify the intended location of all other elements with all other contractors by reviewing their shop drawings.

Coordinate all work for symmetrical installation with relation to height and level with architectural elements, switches, outlets, and other controls.

These drawings represent the configuration of a system. They do not in any way constitute instructions for installation except with regards to configuration. The sole responsibility for field verification of dimensions, installation/fabrication methods, code conformance, safety issues and the quality and performance of their work shall be that of the installing contractor.

These drawings are to be interpreted in conjunction with all other drawings in the construction set as well as written specifications for this project. The contents of these drawings does not in any way negate the written specifications nor do the written specifications in any way negate the contents of these drawings.

If there are inconsistencies between written specifications and drawings or between any drawing and other drawings in the construction document set, it is the responsibility of the contractor to obtain clarification before bidding this project. If no clarification has been obtained prior to bid, then the contractor shall abide by the decision of the architect and consultant at no additional cost to the owner even if work has to be redone.

Obtain shop drawings from all related trades to verify the intended configurations and scheduling of all contract work. All contractors are responsible for coordinating their work with other related trades in a manner that avoids conflicts of work, device placements and scheduling.

This Contract Responsibilities Matrix Spreadsheet Shows The Responsibilities Of The The EC (Electrical Contractor) And The TC (Theatrical Contractor) For The Specified Theatrical Lighting System Equipment Shown On The TL Series Drawings And As Described In Spec Section 19 2000.

Locations For Devices, Conduit Layouts, Wire, Line And Load Info And Other Details Are Indicated On Other TL Drawings. Consult The Entire Set.

All Miscellaneous Hardware, Mounting Anchors, Etc. Are To Be Provided By The EC As Indicated. Where EC Items Do Not Have Equipment Indicated As Being Furnished By The TC, It Is Understood The EC Is Providing The Item Scope Entirely.

Where Equipment Items Are Indicated To Be Furnished By The TC, It Is Understood That He Is Furnishing The Equipment To The Site. The EC Is Installing That Equipment As Noted.

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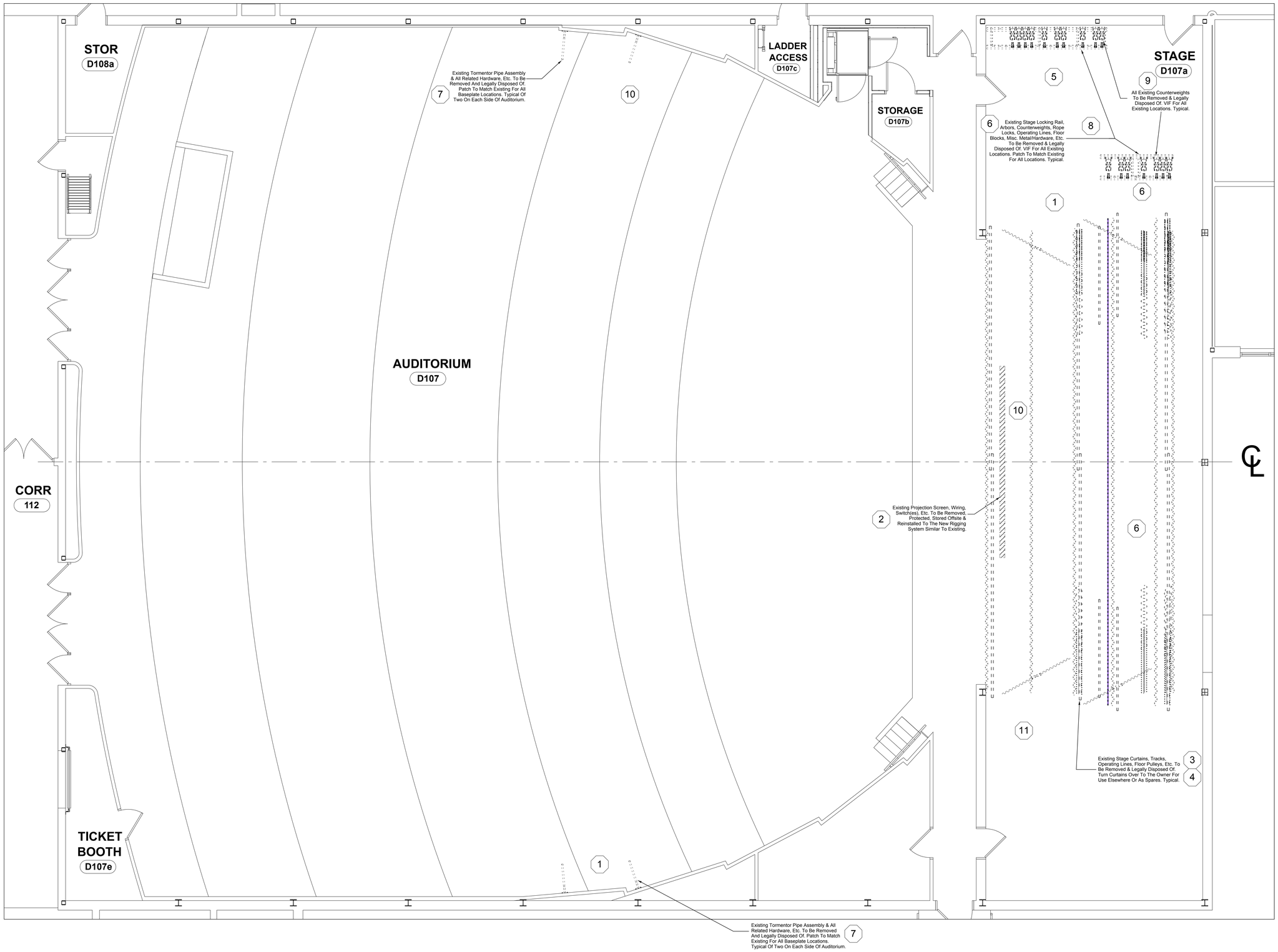
THEATRICAL LIGHTING SYSTEM NOTES, KEYS & SCHEDULES - AREA D2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED#: 07-06-00-01-0-004-027, 07-06-00-01-0-004-028

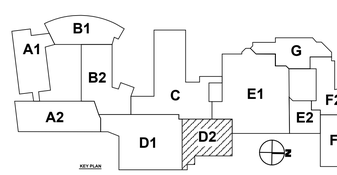
BR-TL4.3

PROJECT NO: 2013-254

REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.



1 **LOWER LEVEL RIGGING REMOVAL PLAN**
SCALE: 1/4" = 1'



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THEATRICAL RIGGING SYSTEM LOWER LEVEL REMOVAL PLAN- AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

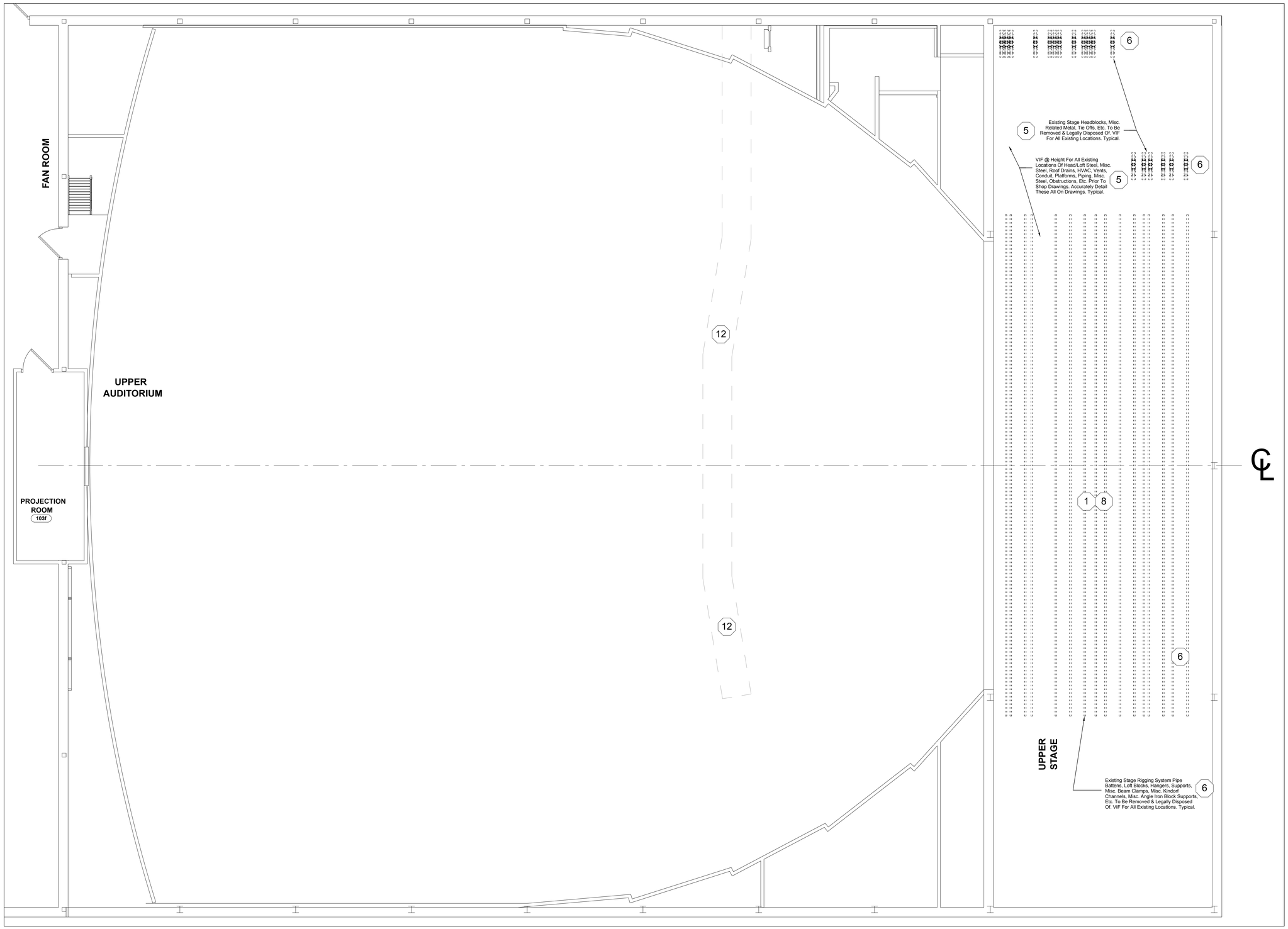
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SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TR0.1

PROJECT NO: 2012-254

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1 UPPER LEVEL RIGGING REMOVAL PLAN
SCALE: 1/4" = 1'

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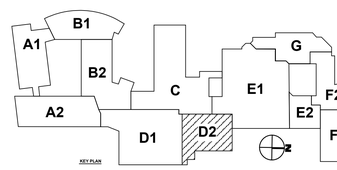
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THEATRICAL RIGGING SYSTEM UPPER LEVEL REMOVAL PLAN- AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

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SED # 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TR0.2

PROJECT NO: 2012-254

REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.

STOR
D108a

LADDER ACCESS
D107c

STORAGE
D107b

STAGE
D107a

AUDITORIUM
D107

CORR
112

TICKET BOOTH
D107e

Typical New Behind/In Wall Blocking, Spanning Supports, Etc. As Indicated & Required To Properly Mount The New Tormentor Pipe Assemblies. Typical Of Every New Tormentor Pipe Assembly.

3 4 Them Locking Rail With Them Brickhouse Front Loading Wire Guide Arbors, Floor Blocks & Them Brickhouse Rope Locks.

20 Traditional Wire Guide Style Locking Rail Where Operator Faces Offstage Wall. Typical.

Typical Locking Rail Punched On Custom Centers As Required Per Site Conditions. 30

Intended Areas For Counterweight Storage. Approx. 48" Deep X 24" Wide. Floor Capacity Is Approx. XXX PSF. Do Not Stack Weights More Than 6" High. Provide All Required Signage. Marked Area Poundage Not To Exceed XXX Lbs. Verify With Project Structural Engineer. 25 27

C New Index Lighting System Power & Control Conduit. Black Flex Conduit Preferred. Route Power/Control Conduit Along Wall To Index Lighting System.

C Provide (1) 20 Amp, 120VAC Circuit Wired Into Index Lighting Dimmer Box. Power From RR-X; # XX.

7 Approx. Location Of New Index Lighting System Power & Dimmer Box/Wall Control. VIF With Owner Prior To Rough In.

1 5

Index Lighting System - 10'-0"

New Counterweight Rigging System, Them Brickhouse Front Loading Arbors & Rope Locks, Locking Rails, Screen Wall, Black Anodized Them T-Strut Guide System, Etc. Typical.

7 SSRC LED Index Lighting System(s) On Them Black Outriggers, Chains, Clamps, Pipes, Free Hanging, Etc.

Index Lighting System - 6'-0"

New Index Lighting System Power & Control Conduit. Black Flex Conduit Preferred. Route Power/Control Conduit Along Wall To Index Lighting System. C

Provide (1) 20 Amp, 120VAC Circuit Wired Into Index Lighting Dimmer Box. Power From RR-X; # XX. C 7

Approx. Location Of New Index Lighting System Power & Dimmer Box/Wall Control. VIF With Owner Prior To Rough In. 3

Them Locking Rail With Them Brickhouse Front Loading Wire Guide Arbors, Floor Blocks & Them Brickhouse Rope Locks 4

29 New Box Tormentor Pipe Assemblies. Typical Of One New On Each Side Of Auditorium.

29 New Upstage-Downstage Tracked Masking Leg Curtains, Black Tracks, Misc. Wall Supports, Etc. Typical.

2 1

Reversed Wire Guide Style Locking Rail Where Operator Faces Towards Center Stage. Typical. 20

Locking Rail Punched On Custom Centers As Required Per Site Conditions. Provide With Additional Bracing, Etc. To Support Screen Wall. 30

1 TR1.4

29 40 New Single Tormentor Pipe Assemblies. Typical Of Two New On Each Side Of Auditorium.

Approx. Location Of Operating Line Keyed Plate & Pulley(s) Shown Within Dashed Box. Shown Out From End Of Curtains For Visual Clarity. Verify Side Of Stage Owner Desires These To Be On SL/SR & Install In Those Locations. Typical.

Typical Custom Locking Rail Onstage Screen Wall Along Entire Length. See Details For More Info. 15

Side Masking Leg Track & Curtains. There Are (5) 6' - 0" Wide Masking Curtains This Side Of Stage.

SR DS US SL

Stage Directions:
SL = Stage Left
SR = Stage Right
DS = Downstage - Towards Audience Area
US = Upstage - Towards Rear Stage Wall

31'-0" 27'-6" H

Main Traveler Track 60'-0"

1 2 4 5 6 8 10 12 15 16

Set Numbers

Main Valance Curtain.

6

23 New Stage Border, Traveler & Specialty Curtains (Cyc & Scrims), Tracks, Misc. Supports, Operating Lines, Floor Pulleys, Etc. Typical.

Typical Border Curtain

Cyclorama Curtain. 23

Stage Curtains 51'-0"

22 All Bi-Parting Curtain Tracks Shall Have A 24" Bypass At Center Stage With Dual Track Hangers At That Location.

1 TR1.3

26 34

34 Reinstall Previously Removed Projection Screen, Case, Wiring, Controls, Etc. Typical.

38 Reinstall Existing & Previously Removed Projection Screen, Wiring, SO Cabling, Etc. To New Stage Rigging System Pipe Batten & Similar To Existing VIF Existing Installation Location Prior To Removals. Reinstall To Similar Location +/- 6". VIF With ETR Projector, Zoom Lens, Etc. For Capabilities.

23 Typical Traveler Curtain

New Stage Curtains, Black Tracks, Black Operating Lines, 8" Nylon Floor Pulleys, Etc. Typical. Reinstall Existing Projection Screen Case, Wiring, Controls, Etc. Similar To Existing. 22 23

22 Traveler & Side Leg Curtain Tracks To Be ADC Silent Steel Model #380 Black Track System. Typical.

31'-0"

41 35

H

22 23 New Upstage-Downstage Tracked Masking Leg Curtains, Black Tracks, Etc. Typical.

29 Front Tormentor Pipe Assembly. Typical.

29 Middle Tormentor Pipe Assembly. Typical.

29 40 Rear Box Tormentor Pipe Assembly. Typical.

Side Masking Leg Track - 22'-8"

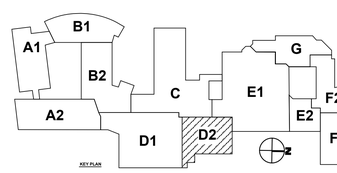
23 Side Masking Leg Curtains. There Are (4) 6' - 0" Wide Masking Curtains This Side Of Stage.

Tether Offstage Ends Of Main Traveler Curtain So That The Trailing/Offstage Edge Never Comes Closer Than Approx. 24" From The Proscenium Opening. VIF. Typical. Main Traveler Curtain Width To Match Other Stage Curtains; However, It Will Track Offstage Further.

Typical New Behind/In Wall Blocking, Spanning Supports, Etc. As Indicated & Required To Properly Mount The New Tormentor Pipe Assemblies. Typical Of Every New Tormentor Pipe Assembly.

Protect ALL ETR Stage Devices, Audio/AV Equipment, Inputs/Outputs, Racks, Boxes, Controls, Etc. During Entire Renovations Period. VIF For All Locations. Provide Heavy Duty Plastic Wrap For Entire Renovations Duration As Required Per Location. Clean & Verify Proper Functionality Prior to Turnover. Typical.

1 LOWER LEVEL CURTAIN & TRACK PLAN
SCALE: 1/4" = 1'



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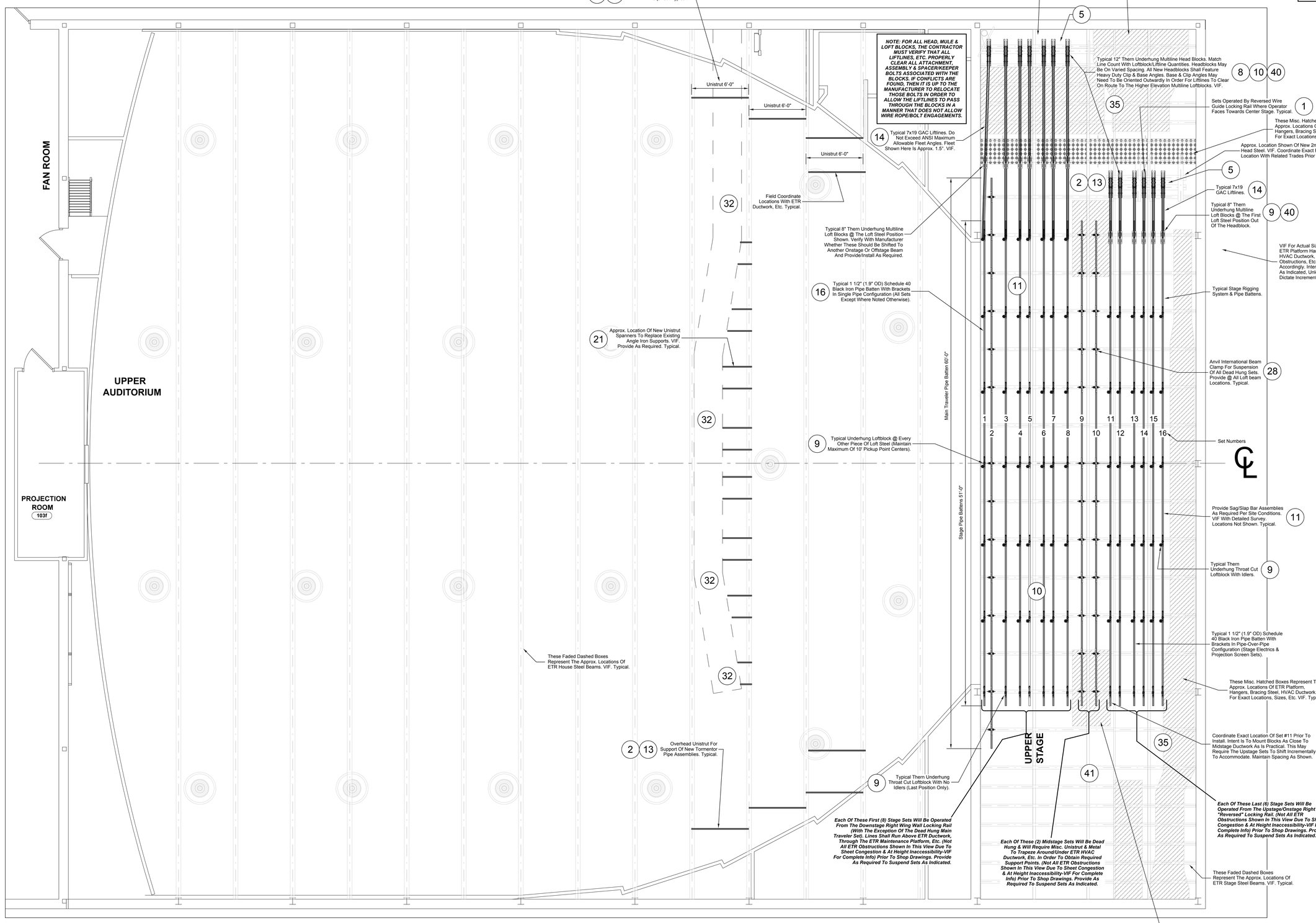
THEATRICAL RIGGING SYSTEM LOWER LEVEL PLAN- AREA D2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

BR-TR1.1

PROJECT NO: 2012-254

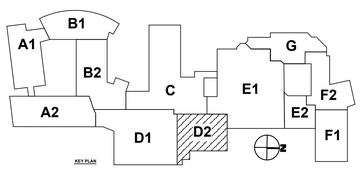
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REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.



1 UPPER LEVEL BATTEN & BLOCK PLAN

SCALE: 1/4" = 1'



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THEATRICAL RIGGING SYSTEM UPPER LEVEL PLAN- AREA D2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TR1.2

PROJECT NO: 2012-254

This Set Layout Will Require Custom Punched Locking Rail(s). Provide As Required. Spacing Shown Is Critical.

Set Description Suffixes:
DH = Dead Hung Set
CT = Counterweight Set

16 SB=Single Batten
BP = Bi-Parting Curtain
POP = Pipe Over Pipe

REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.

19'-2"
18'-2"
17'-2"
16'-2"
14'-8"
13'-8"
12'-2"
10'-8"
9'-2"
7'-8"
6'-8"
5'-2"
4'-2"
2'-8"
1'-2"
5"

Trapeze Over/Under ETR HVAC Ductwork, Misc. Obstructions, Etc. As Required To Obtain Pickpoints Indicated. Typical. 13

These Misc. Hatched Boxes Represent The Approx. Locations Of ETR Platform, Hangers, Bracing Steel, HVAC Ductwork. VIF For Exact Locations, Sizes, Etc. Typical.

All Set Dimensions Taken From The Rear Face Of The Proscenium Wall To The Right Of The Locking Rail (Not The Stage Column-Which Is Not Shown).

All Torm Dims Are Approx. Center Each Assembly In Indicated Space. VIF For Clearances, Etc. Prior To Final Location.

Set Numbers

Each Of These Last (6) Stage Sets Will Be Operated From The Upstage/Onstage Right & "Reversed" Locking Rail. (Not All ETR Obstructions Shown In This View Due To Sheet Congestion & At Height Inaccessibility-VIF For Complete Info) Prior To Shop Drawings. Provide As Required To Suspend Sets As Indicated.

Each Of These (2) Midstage Sets Will Be Dead Hung & Will Require Misc. Unistrut & Metal To Trapeze Around/Under ETR HVAC Ductwork, Etc. In Order To Obtain Required Support Points. (Not All ETR Obstructions Shown In This View Due To Sheet Congestion & At Height Inaccessibility-VIF For Complete Info) Prior To Shop Drawings. Provide As Required To Suspend Sets As Indicated.

Each Of These First (8) Stage Sets Will Be Operated From The Downstage Right Wing Wall Locking Rail. Lines Shall Run Above ETR Ductwork, Through The ETR Maintenance Platform, Etc. (Not All ETR Obstructions Shown In This View Due To Sheet Congestion & At Height Inaccessibility-VIF For Complete Info) Prior To Shop Drawings. Provide As Required To Suspend Sets As Indicated.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

MAIN VALANCE-CT/SB | MAIN TRAVELER-DH/BP/SB | FIRST ELECTRIC-CT/POP | BORDER CURTAIN-CT/SB | PROJECTION SCREEN-CT/POP | BORDER CURTAIN-CT/SB | SECOND ELECTRIC-CT/POP | MIDSTAGE TRAVELER-CT/SB/BP | SCENERY-DH/SB | BORDER CURTAIN-DH/SB | THIRD ELECTRIC-CT/POP | BORDER CURTAIN-CT/SB | FOURTH ELECTRIC-CT/POP | SCENERY/CYC-CT/SB | REAR TRAVELER-CT/SB/BP | SCENERY-CT/SB

13 Overhead Unistrut For Support Of New Tormentor Pipe Assemblies. Typical.

13 Field Coordinate Locations With ETR Ductwork, Etc. Typical.

Rear Of Rear Torm Assembly - 24'-8"

Front Of Rear Torm Assembly - 19'-8"

Center Of Middle Torm Assembly - 15'-5"

Center Of Front Torm Assembly - 10'-5"

VIF For Actual Size & Location Of ETR Downstage Right Corner Roof Drain Piping & Adjust Layout Accordingly. Intent Is To Place Headblock As Close To ETR Roof Drain Pipe As Is Practical & Advisable. Maintain Manufacturer Minimum Required Clearances.

VIF For Actual Size & Location Of All ETR Platform, Platform Hangers, Bracing Steel, HVAC Ductwork, All Other Misc. Obstructions, Etc. & Adjust Layout Accordingly. Intent Is To Locate Sets As Indicated, Unless Field Conditions Dictate Incremental Relocation.

VIF For Exact Location Of The ETR Projection Screen Set. For The New Rigging System, It Is Intended To Be Located Similar To Existing (+/- 6" - VIF With Projector & Zoom Lens Capabilities). What Is Shown Is A Close Estimate.

Typical Tracked Leg Curtain Track

14 Typical 1/4" CAC Wire Rope Liftline

16 Typical 1 1/2" Black Iron Set Batten & Black Forged Trim Chain 19

VIF For Actual Size & Location Of All ETR Platform Hangers, Bracing Steel, HVAC Ductwork, All Other Misc. Obstructions, Etc. & Adjust Layout Accordingly. Intent Is To Locate Sets As Indicated, Unless Field Conditions Dictate Incremental Relocation.

Typical Scenery Set

Typical Specialty Curtain (Scrim/Cyc) Shown Both Deployed & Stored "Tripped Up" Into West Coast Bag.

29 Middle Tormentor Pipe Assembly. Typical.

Front Tormentor Pipe Assembly. Typical. 29

Eq. Eq.

ETR HVAC & Misc. Speaker Grilles, Etc. VIF. Typical.

Rear Box Tormentor Pipe Assembly. Typical. 29

XX:XX XX X X

ETR Clock. VIF. Typical.

Shift Final Tormentor Assembly Installation Locations Incrementally To Clear Any Existing Obstructions. Typical.

Eq. Eq. Eq. Eq.

ETR HVAC & Misc. Speaker Grilles, Etc. VIF. Typical.

Top of Rear Torm Assembly - Approx. 17'-0"
Bottom of Rear Torm Assembly - Approx. 14'-0"
Top of Middle Torm Assembly - Approx. 19'-0"
Bottom of Middle Torm Assembly - Approx. 12'-0"
Top of Front Torm Assembly - Approx. 19'-0"
Bottom of Front Torm Assembly - Approx. 12'-0"

This Heavy Dashed Horizontal Line Represents The Finished Stage Floor Height AFF.

Main Valance Curtain - 6'-0"

17'-9" (Hard Proscenium Opening)

38 ETR Projection Screen Install As Indicated.

All Traveler Curtains - 17'-6"

17'-6"

13'-6"

All Border Curtains - 6'-0"

Typical Traveler Tracks With Center Crossover 22

Typical Border Curtain 23

Side Masking Leg Curtains - 17'-6"

Typical Side Masking Leg Curtains

Specialty Cyc/Scrim Curtains - 16'-0"

Trim All Curtains So That Bottom Of Finished Curtain Is Between 1/2" And 3/4" AFF. Curtains Should Not Drag On Floor, But Should Not Be So High As To See Much Under Them.

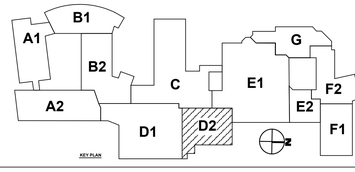
These Faded Dashed Lines Represent The Approx. ChromaQ Light Output Pattern.

All Dimensions Are Taken From The Finished Stage Floor Height. Overall Curtain Dimensions Are Top Of Jute Webbing To Bottom Of Hemmed Edge Of Chain Pocket.

40 28 11 22 23 6 35 41 34

1 STAGE RIGGING SYSTEM PARTIAL SECTION-STAGE SET LAYOUT

SCALE: 3/4" = 1'



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THEATRICAL RIGGING SYSTEM SECTION - AREA D2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED.#: 07-56-00-04-0-034-027, 07-56-00-01-0-034-028

BR-TR1.3

PROJECT NO: 2012-254

This Set Layout Will Require Custom Punched Locking Rail(s). Provide As Required. Spacing Shown Is Critical.

Set Description Suffixes:
DH = Dead Hung Set
CT = Counterweight Set

SB=Single Batten
BP = Bi-Parting Curtain
POP = Pipe Over Pipe

REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.

19'-0"
18'-0"
17'-0"
16'-0"
14'-6"
13'-6"
9'-2"
7'-8"
6'-8"
5'-2"
4'-2"
2'-8"
1'-3"

All Set Dimensions Are Approx. & Are Taken From The Rear Face Of The Proscenium Wall To The Right Of The Locking Rail (Not The Stage Column-Which Is Not Shown). VIF.

Set Numbers

1 3 4 5 6 7 8 11 12 13 14 15 16

Typical 8" Thern Underhung Multiline Loft Blocks (1st Loft Position As Indicated-See Plan View For More Info). Match Line Count With Headblock/Liftline Quantities. (9)

Typical Approx. High Trim For Thern Brickhouse Arbors.

These Misc. Hatched Boxes Represent The Approx. Locations Of ETR Platform, Hangers, Bracing Steel, HVAC Ductwork. VIF For Exact Locations, Sizes, Etc. Typical

Each Of These Last (6) Stage Sets Will Be Operated From The Upstage/Onstage Right & "Reversed" Locking Rail. (Not All ETR Obstructions Shown In This View Due To Sheet Congestion-VIF For Complete Info). Provide As Required To Suspend Sets As Indicated.

Each Of These First (8) Stage Sets Will Be Operated From The Downstage Right Wing Wall Locking Rail. Lines Shall Run Above ETR Ductwork, Through The ETR Maintenance Platform, Etc. (Not All ETR Obstructions Shown In This View Due To Sheet Congestion-VIF For Complete Info). Provide As Required To Suspend Sets As Indicated.

MAIN VALANCE-CT/SB
FIRST ELECTRIC-CT/POP
BORDER CURTAIN-CT/SB
PROJECTION SCREEN-CT/POP
BORDER CURTAIN-CT/SB
SECOND ELECTRIC-CT/POP
MIDSTAGE TRAVELER-CT/SB/BP

(11)

Typical 12" Thern Underhung Multiline Head Blocks.

(2)

VIF For Actual Size & Location Of ETR Downstage Right Corner Roof Drain Piping & Adjust Layout Accordingly. Intent Is To Place Headblock As Close To ETR Roof Drain Pipe As Is Practical & Advisable.

VIF For Actual Size & Location Of All ETR Platform Hangers, Bracing Steel, HVAC Ductwork, All Other Misc. Obstructions, Etc. & Adjust Layout Accordingly. Intent Is To Locate Sets As Indicated, Unless Field Conditions Dictate Incremental Relocation.

VIF For Actual Size & Location Of All ETR Platform, Platform Hangers, Bracing Steel, HVAC Ductwork, All Other Misc. Obstructions, Etc. & Adjust Layout Accordingly. Intent Is To Locate Sets As Indicated, Unless Field Conditions Dictate Incremental Relocation.

(39)

Some Thern Brickhouse Arbors Are Shown At Typical Approx. Intermediate Or High Trims For Reference Only. Not All Shown In Upper Trims.

THIRD ELECTRIC-CT/POP
BORDER CURTAIN-CT/SB
FOURTH ELECTRIC-CT/POP
SCENERY/CYC-CT/SB
REAR TRAVELER-CT/SB/BP
SCENERY-CT/SB

All Stage Sets Shall Feature 8" Thern Underhung Multiline Loft Blocks @ The First Loft Steel Position Out Of The Headblock (Not Shown). These Will Be Located On The Higher Loft Steel Beams. Match Line Count With Headblock/Liftline Quantities. Typical.

(10) (40)

(14) Thern GAC Arbor Wire Guide System.

ETR HVAC & Misc. Speaker Grilles, Etc. VIF. Typical.

XX:XX XX X

ETR Clock. VIF. Typical.

ETR HVAC & Misc. Speaker Grilles, Etc. VIF. Typical.

(32)

(21)

(34)

For Total System Travel Site Elevation Views

(41)

(1)

(25) Typical 6' Tall Thern Brickhouse Front Loading Arbor (Stage Electric & Midstage Traveler Sets).

(4)

(35)

(6)

(30)

(5)

(34)

Typical Thern Brickhouse Cam Style Rope Lock With Long Shank Master Lock Keyed Alike Lock.

(4)

Typical 4' Tall Thern Brickhouse Front Loading Arbor (Unless Noted Otherwise). (25)

(31)

(6)

(15)

(30)

(5)

Typical Thern Floor Block. (3)

(1) Typical Thern Locking Rail Facing Offstage Right Wall (Provide Custom Punches As Necessary).

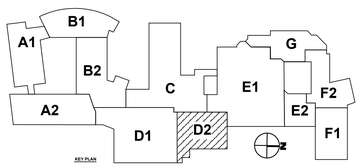
Typical Custom Locking Rail Onstage Screen Wall Along Entire Length. See Details For More Info. (15)

(20) Typical Locking Rail Attachment System. For Existing Stage Slats/Floor System: Provide Bolt Into Epoxy Anchor Based System. Do Not Reuse Existing Hole Locations. Clear All Existing By Approx. 12".

(1) Typical Thern Locking Rail (Provide Custom Punches As Necessary).

(20) Typical Thern Locking Rail Stanchion. Provide (3) For Each Locking Rail (Minimum).





1 STAGE RIGGING SYSTEM PARTIAL SECTION-LOCKING RAIL & GUIDE SYSTEM

SCALE: 3/4" = 1'

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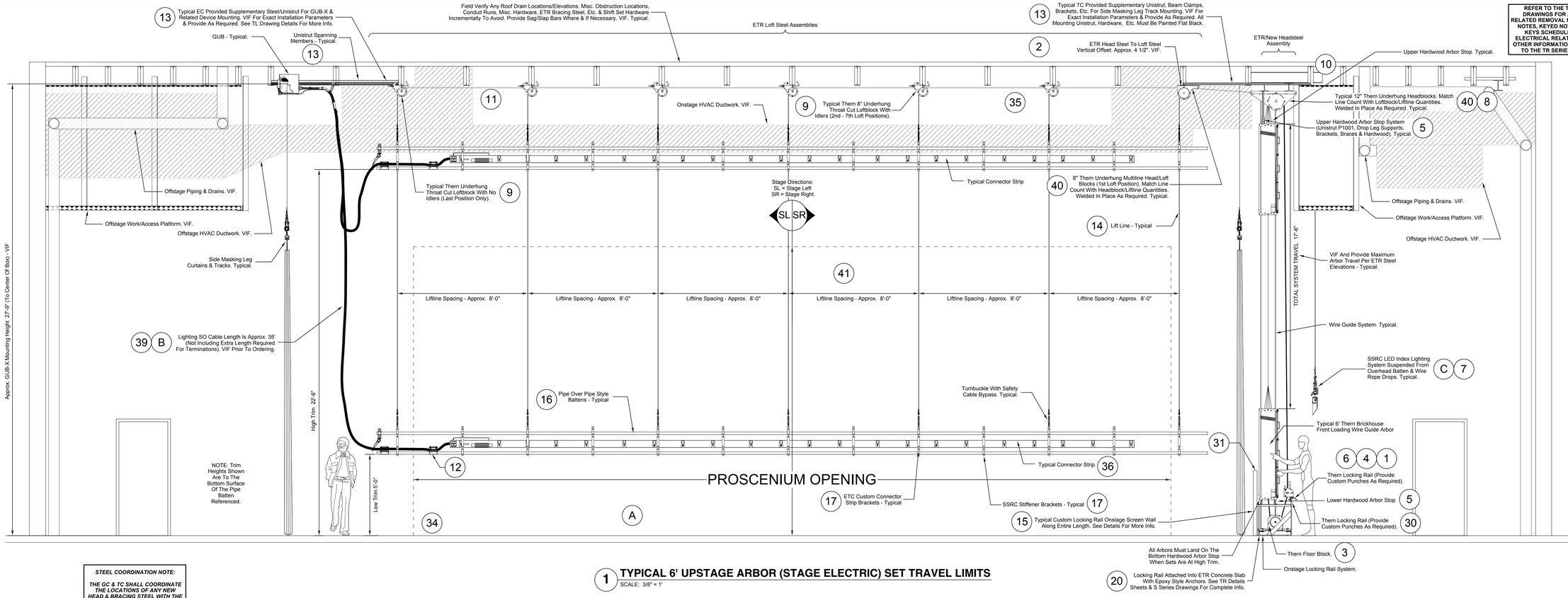
THEATRICAL RIGGING SYSTEM SECTION - AREA D2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

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BR-TR1.4

PROJECT NO: 2012-254

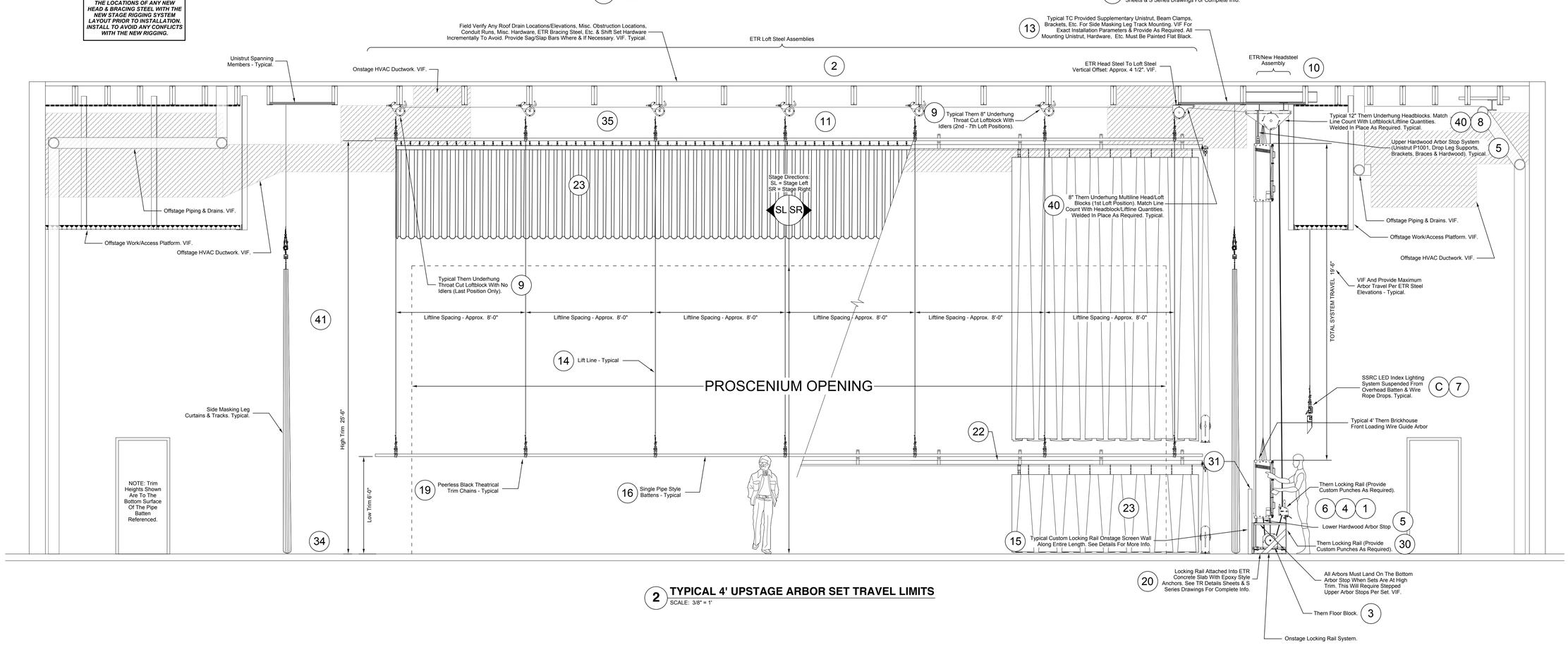
REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.



1 TYPICAL 6' UPSTAGE ARBOR (STAGE ELECTRIC) SET TRAVEL LIMITS
SCALE: 3/8" = 1'

STEEL COORDINATION NOTE:

THE GC & TC SHALL COORDINATE THE LOCATIONS OF ANY NEW HEAD & BRACING STEEL WITH THE NEW STAGE RIGGING SYSTEM LAYOUT PRIOR TO INSTALLATION. INSTALL TO AVOID ANY CONFLICTS WITH THE NEW RIGGING.



2 TYPICAL 4' UPSTAGE ARBOR SET TRAVEL LIMITS
SCALE: 3/8" = 1'

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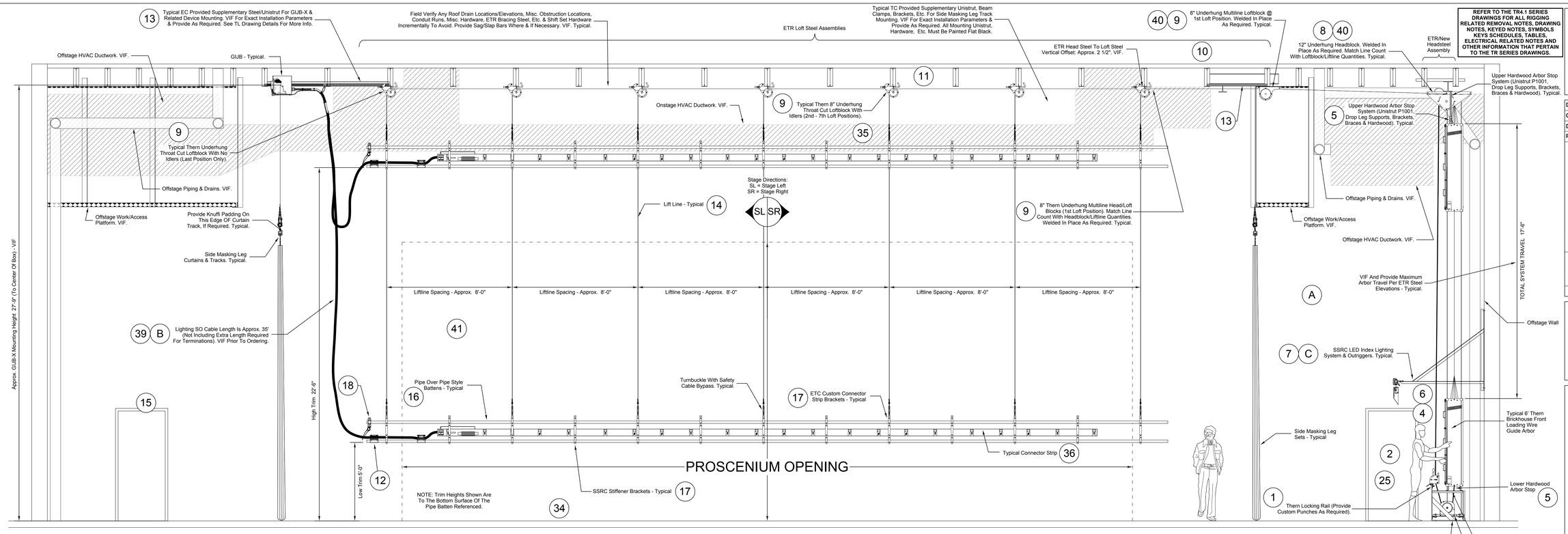
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BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED#: 07-56-00-01-0-034-021, 07-56-00-01-0-034-028

BR-TR1.5

PROJECT NO: 2012-254

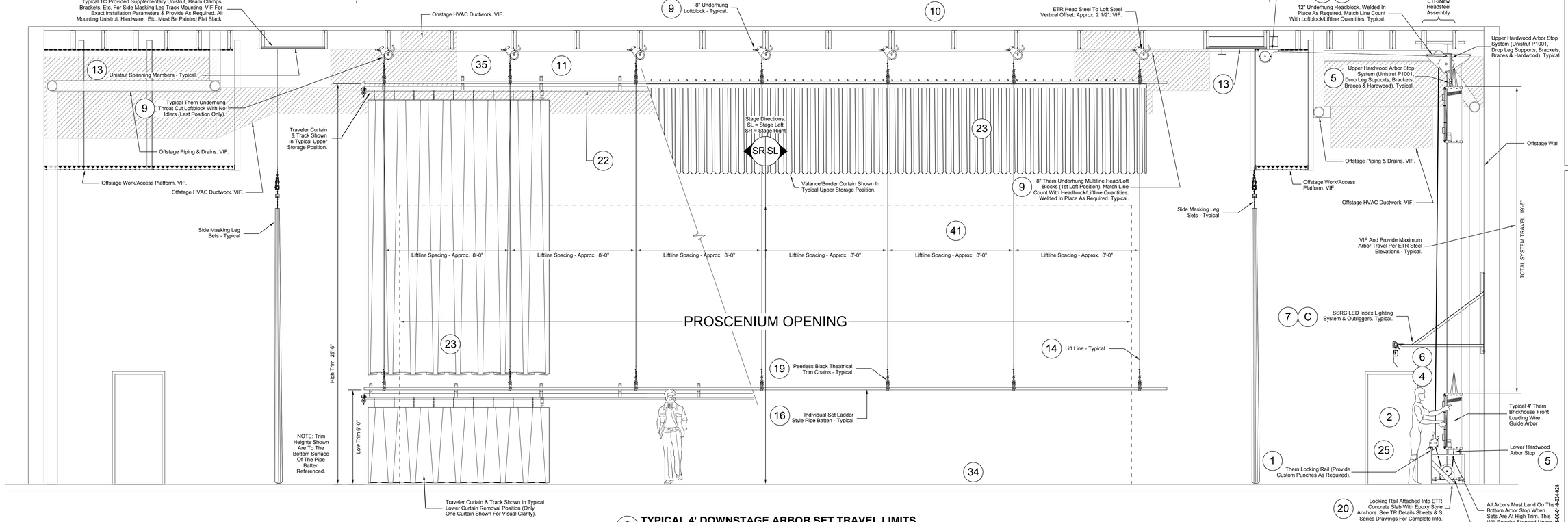


STEEL COORDINATION NOTE:

THE GC & TC SHALL COORDINATE THE LOCATIONS OF ANY NEW HEAD & BRACING STEEL WITH THE NEW STAGE RIGGING SYSTEM LAYOUT PRIOR TO INSTALLATION. INSTALL TO AVOID ANY CONFLICTS WITH THE NEW RIGGING.

1 TYPICAL 6' DOWNSTAGE ARBOR (STAGE ELECTRIC) SET TRAVEL LIMITS

SCALE: 3/8" = 1'



2 TYPICAL 4' DOWNSTAGE ARBOR SET TRAVEL LIMITS

SCALE: 3/8" = 1'

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ELMIRA CITY SCHOOL DISTRICT

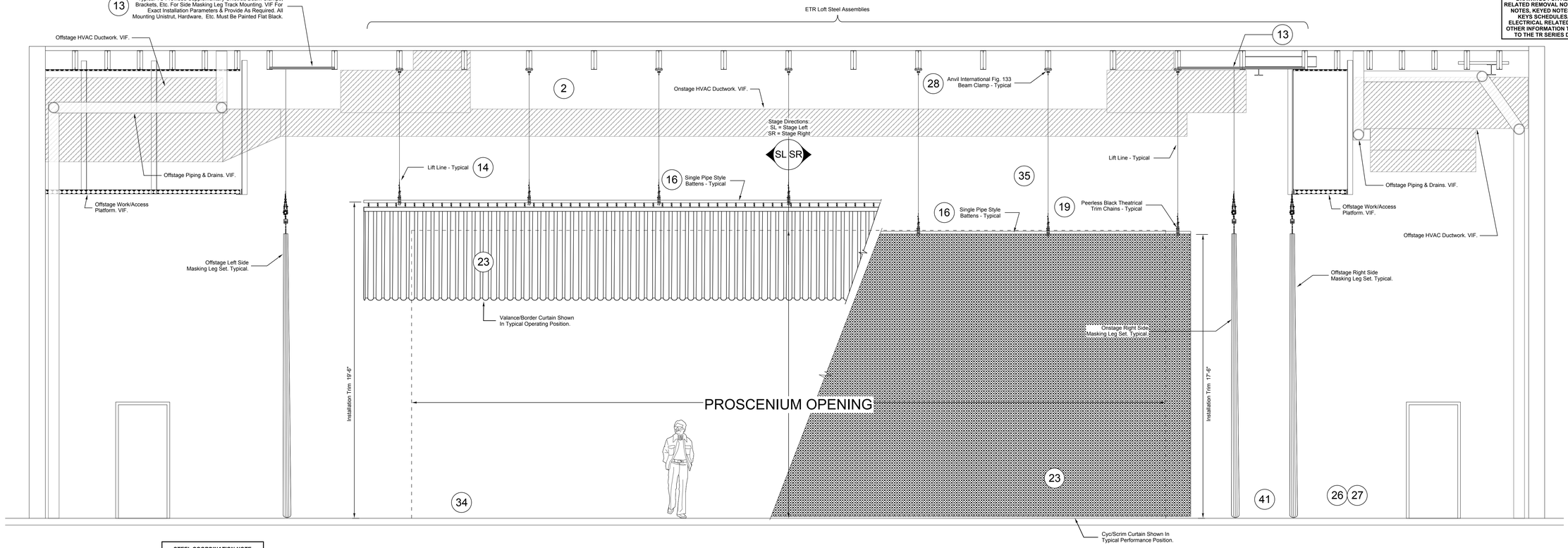
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PROJECT NO: 2012-254

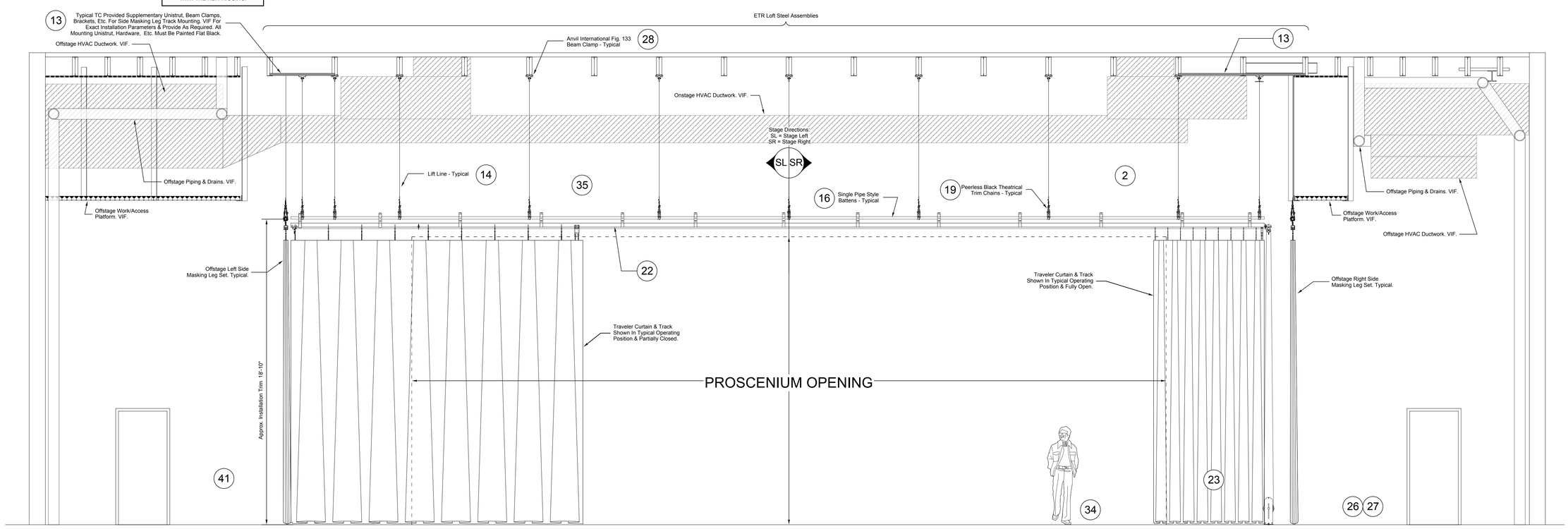
REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.



1 TYPICAL DEAD HUNG BORDER CURTAIN/SCENERY SET INSTALLATION
SCALE: 3/8" = 1'

STEEL COORDINATION NOTE:

THE GC & TC SHALL COORDINATE THE LOCATIONS OF ANY NEW HEAD & BRACING STEEL WITH THE NEW STAGE RIGGING SYSTEM LAYOUT PRIOR TO INSTALLATION. INSTALL TO AVOID ANY CONFLICTS WITH THE NEW RIGGING.



2 TYPICAL DEAD HUNG MAIN TRAVELER SET INSTALLATION
SCALE: 3/8" = 1'

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THEATRICAL RIGGING SYSTEM ELEVATIONS - AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

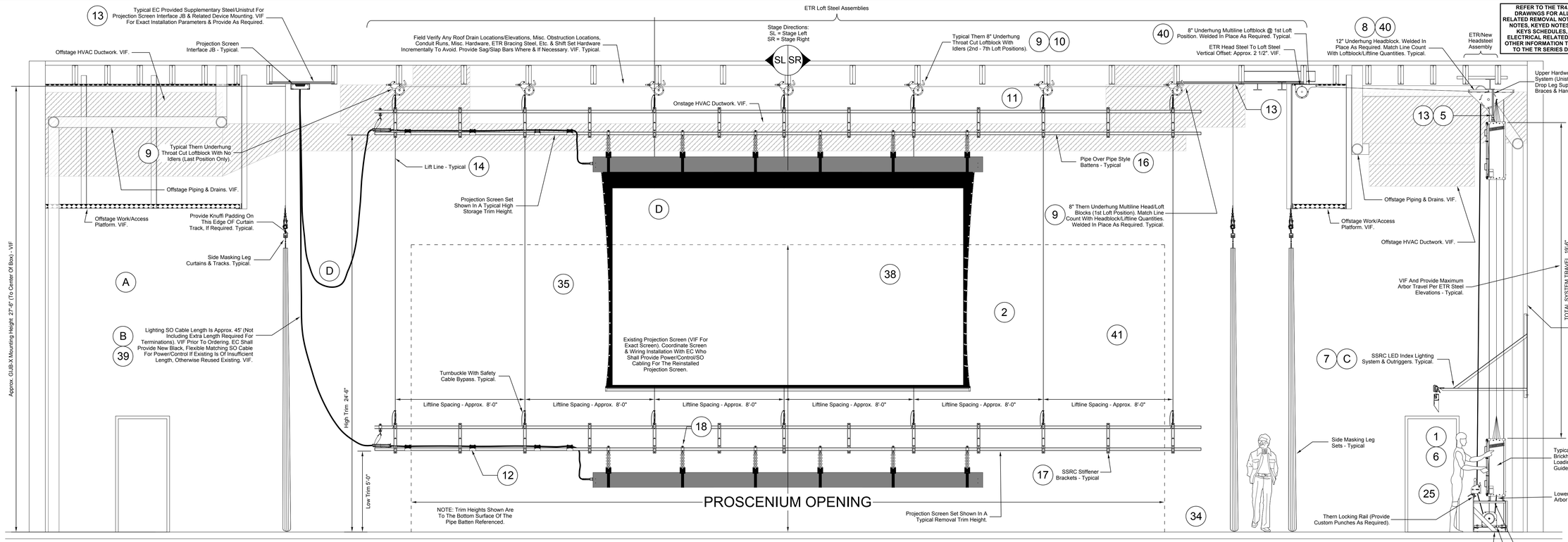
ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TR1.7

PROJECT NO: 2012-254



1 TYPICAL PROJECTION SCREEN SET TRAVEL LIMITS
SCALE: 3/8" = 1'

STEEL COORDINATION NOTE:

THE GC & TC SHALL COORDINATE THE LOCATIONS OF ANY NEW HEAD & BRACING STEEL WITH THE NEW STAGE RIGGING SYSTEM LAYOUT PRIOR TO INSTALLATION. INSTALL TO AVOID ANY CONFLICTS WITH THE NEW RIGGING.

REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.

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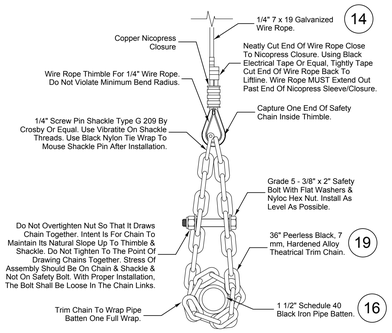
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

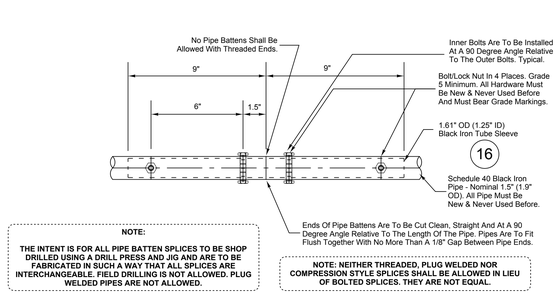
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PROJECT NO: 2012-254



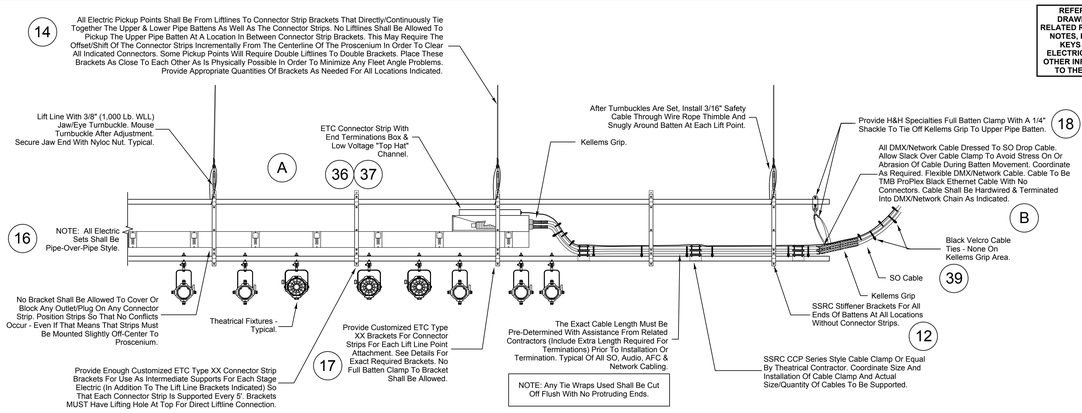
1 TRIM CHAIN DETAIL
Scale: 3" = 1'



NOTE:
THE INTENT IS FOR ALL PIPE BATTEN SPLICES TO BE SHOP DRILLED USING A DRILL PRESS AND JIG AND ARE TO BE FABRICATED IN SUCH A WAY THAT ALL SPLICES ARE INTERCHANGEABLE. FIELD DRILLING IS NOT ALLOWED. PLUG WELDED PIPES ARE NOT ALLOWED.

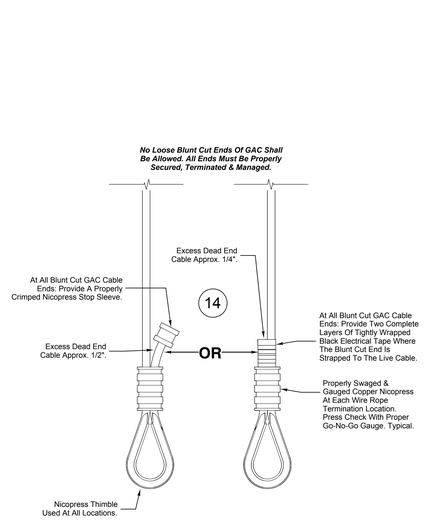
NOTE: NEITHER THREADED, PLUG WELDED NOR COMPRESSION STYLE SPLICES SHALL BE ALLOWED IN LIEU OF BOLTED SPLICES. THEY ARE NOT EQUAL.

2 BATTEN SPLICE DETAIL
Scale: 3" = 1'

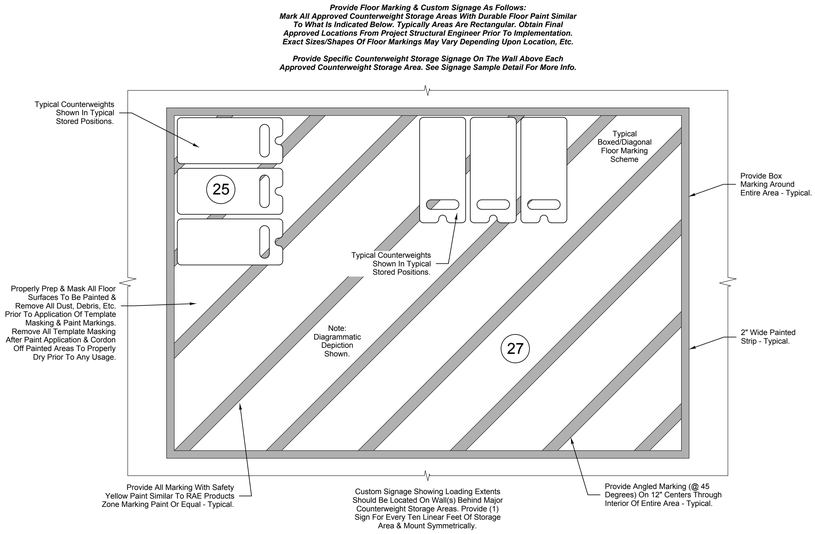


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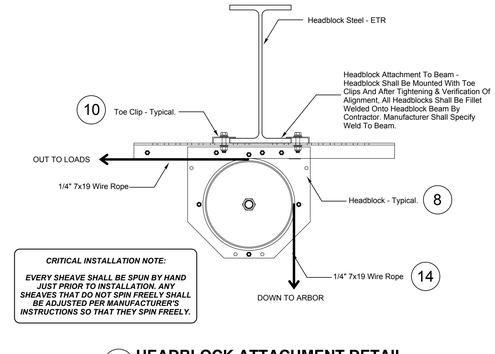
3 ELECTRIC BATTEN DETAIL
Scale: 1/2" = 1'



4 NICOPRESS DETAIL
SCALE: NONE

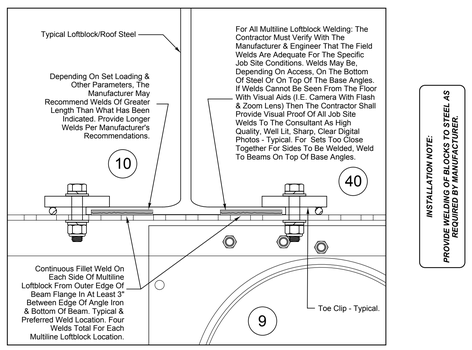


5 FLOOR WEIGHT STORAGE MARKING DETAIL
SCALE: NONE



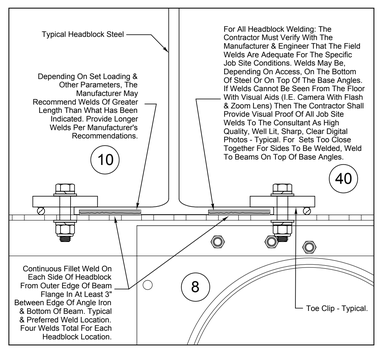
CRITICAL INSTALLATION NOTE:
EVERY SHEAVE SHALL BE SPUN BY HAND JUST PRIOR TO INSTALLATION. ANY SHEAVES THAT DO NOT SPIN FREELY SHALL BE ADJUSTED PER MANUFACTURER'S INSTRUCTIONS SO THAT THEY SPIN FREELY.

6 HEADBLOCK ATTACHMENT DETAIL
Scale: 1 1/2" = 1'

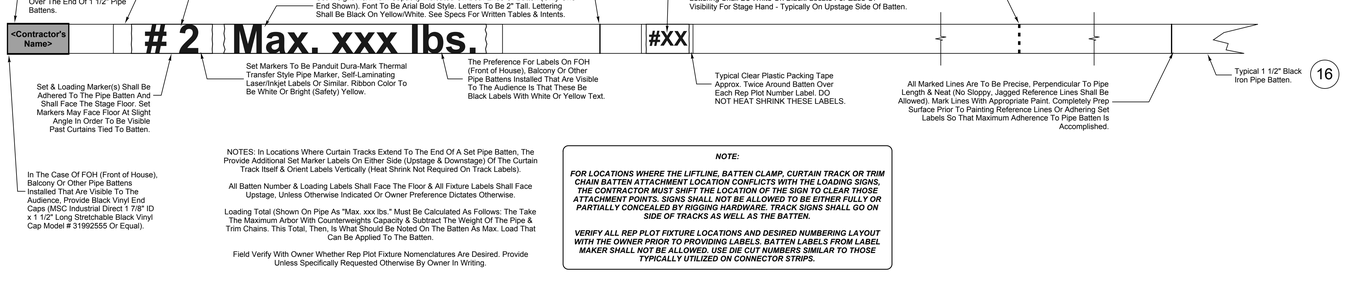


INSTALLATION NOTE:
PROVIDE WELDING OF BLOCKS TO STEEL AS REQUIRED BY MANUFACTURER.

7 MULTILINE LOFTBLOCK STEEL WELDING DETAIL
Scale: NONE



8 HEADBLOCK STEEL WELDING DETAIL
Scale: NONE



NOTES: In Locations Where Curtain Tracks Extend To The End Of A Set Pipe Batten, The Provide Additional Set Marker Labels On Either Side (Upstage & Downstage) Of The Curtain Track Itself & Orient Labels Vertically (Heat Shrink Not Required On Track Labels).

All Batten Number & Loading Labels Shall Face The Floor & All Fixture Labels Shall Face Upstage, Unless Otherwise Indicated Or Owner Preference Dictates Otherwise.

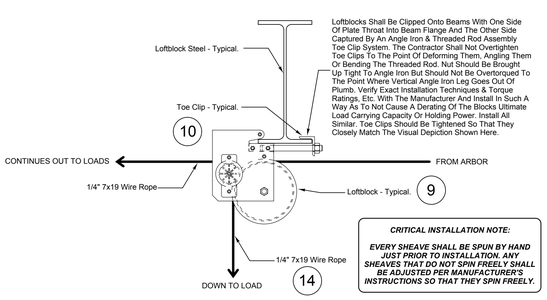
Loading Total (Shown On Pipe As "Max. xxx lbs." Must Be Calculated As Follows: The Take The Maximum Arbor With Counterweights Capacity & Subtract The Weight Of The Pipe & Trim Chains. This Total, Then, Is What Should Be Noted On The Batten As Max. Load That Can Be Applied To The Batten.

Field Verify With Owner Whether Rep Plot Fixture Nomenclatures Are Desired. Provide Unless Specifically Requested Otherwise By Owner In Writing.

NOTE:
FOR LOCATIONS WHERE THE LIFTLINE, BATTEN CLAMP, CURTAIN TRACK OR TRIM CHAIN BATTEN ATTACHMENT LOCATION CONFLICTS WITH THE LOADING SIGNS, THE CONTRACTOR MUST SHIFT THE LOCATION OF THE SIGN TO CLEAR THOSE ATTACHMENT POINTS. SIGNS SHALL NOT BE ALLOWED TO BE EITHER FULLY OR PARTIALLY CONCEALED BY RIGGING HARDWARE. TRACK SIGNS SHALL GO ON SIDE OF TRACKS AS WELL AS THE BATTEN.

VERIFY ALL REP PLOT FIXTURE LOCATIONS AND DESIRED NUMBERING LAYOUT WITH THE OWNER PRIOR TO PROVIDING LABELS. BATTEN LABELS FROM LABEL MAKER SHALL NOT BE ALLOWED. USE DIE CUT NUMBERS SIMILAR TO THOSE TYPICALLY UTILIZED ON CONNECTOR STRIPS.

9 BATTEN LABELING DETAIL
Scale: 3" = 1'



CRITICAL INSTALLATION NOTE:
EVERY SHEAVE SHALL BE SPUN BY HAND JUST PRIOR TO INSTALLATION. ANY SHEAVES THAT DO NOT SPIN FREELY SHALL BE ADJUSTED PER MANUFACTURER'S INSTRUCTIONS SO THAT THEY SPIN FREELY.

10 LOFTBLOCK ATTACHMENT DETAIL
Scale: 1 1/2" = 1'

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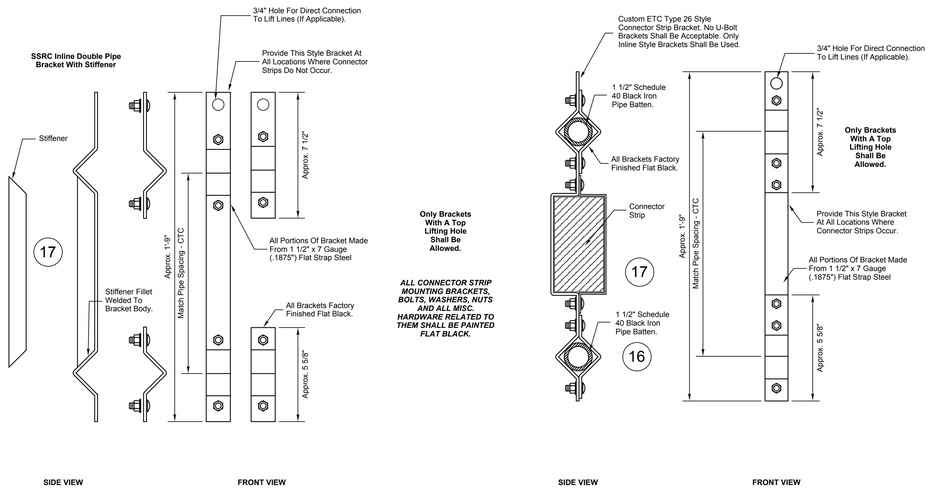
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THEATRICAL RIGGING SYSTEM DETAILS - AREA D2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED#: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TR3.1

PROJECT NO: 2012-254

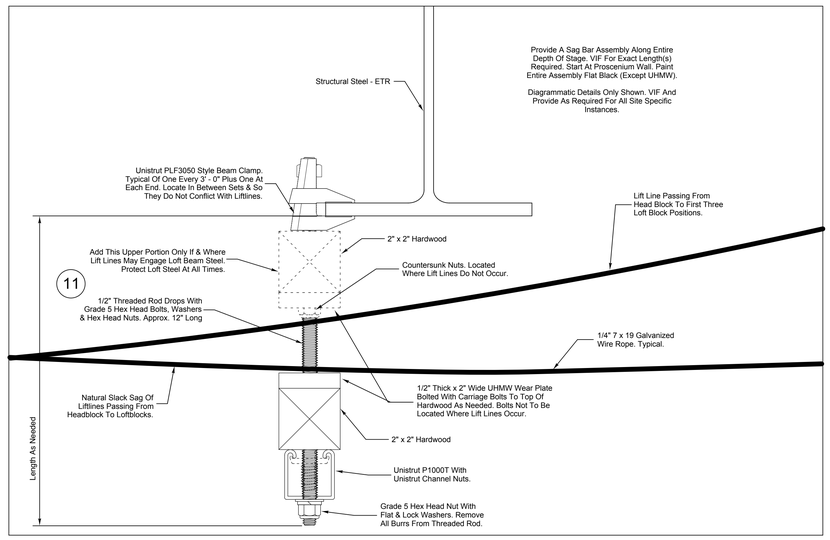


1 STAGE ELECTRIC STIFFENER BRACKET DETAIL

Scale: 3" = 1'

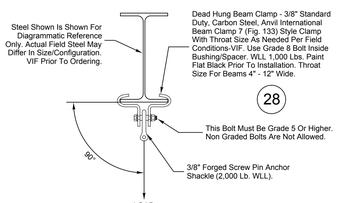
2 STAGE ELECTRIC CONNECTOR STRIP BRACKET DETAIL

Scale: 3" = 1'



3 SAG/SLAP BAR & MOUNTING DETAIL

Scale: 6" = 1'



4 BEAM CLAMP DETAIL

SCALE: 1 1/2" = 1'

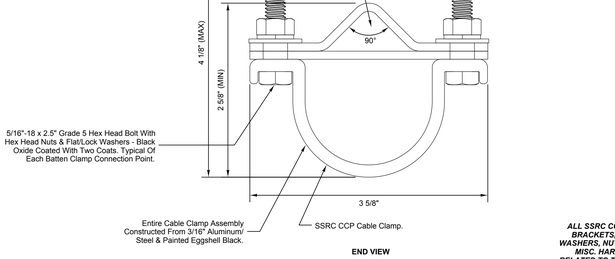
REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.

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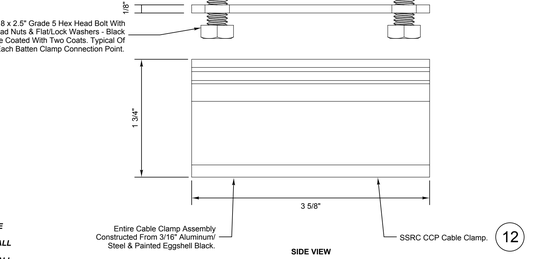
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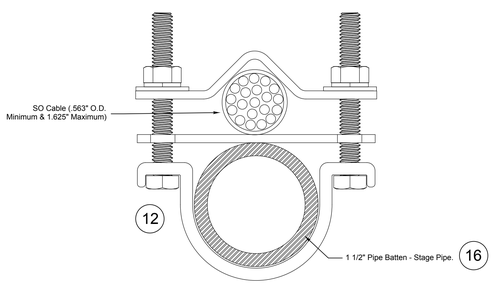
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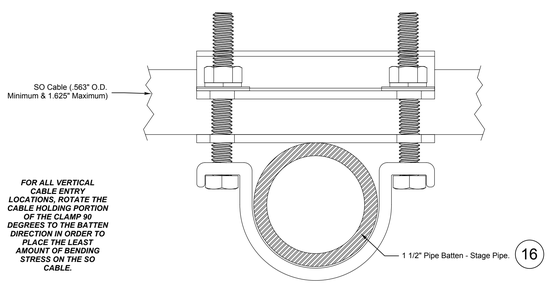
NOTE: PROVIDE SSRC CABLE CLAMPS FOR ALL SO CABLE/PIPE INTERFACE LOCATIONS. ROTATE CLAMP PARTS TO MINIMIZE STRESS ON CABLES & TO AVOID ANY SHARP 90 DEGREE BENDS.

ALL SSRC CCP STYLE BRACKETS, BOLTS, WASHERS, NUTS AND ALL MISC. HARDWARE RELATED TO THEM SHALL BE PAINTED FLAT BLACK.



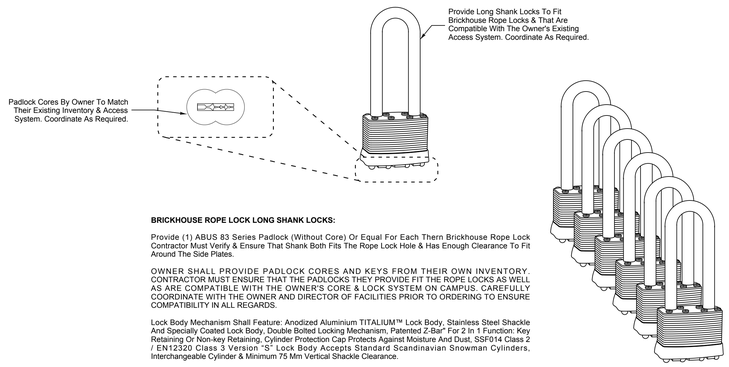


FOR ALL VERTICAL CABLE ENTRY LOCATIONS, ROTATE THE CABLE HOLDING PORTION OF THE CLAMP 90 DEGREES TO THE BATTEN DIRECTION IN ORDER TO PLACE THE LEAST AMOUNT OF BENDING STRESS ON THE SO CABLE.



5 SSRC CABLE CLAMP DETAILS

SCALE: 6" = 1'



BRICKHOUSE ROPE LOCK LONG SHANK LOCKS:

Provide (1) ABUS 83 Series Padlock (Without Core) Or Equal For Each Thern Brickhouse Rope Lock Contractor Must Verify & Ensure That Shank Both Fits The Rope Lock Hole & Has Enough Clearance To Fit Around The Side Plates.

OWNER SHALL PROVIDE PADLOCK CORES AND KEYS FROM THEIR OWN INVENTORY. CONTRACTOR MUST ENSURE THAT THE PADLOCKS THEY PROVIDE FIT THE ROPE LOCKS AS WELL AS ARE COMPATIBLE WITH THE OWNER'S CORE & LOCK SYSTEM ON CAMPUS. CAREFULLY COORDINATE WITH THE OWNER AND DIRECTOR OF FACILITIES PRIOR TO ORDERING TO ENSURE COMPATIBILITY IN ALL REGARDS.

Lock Body Mechanism Shall Feature: Anodized Aluminium TITALIUM™ Lock Body, Stainless Steel Shackle And Specially Coated Lock Body, Double Bolted Locking Mechanism, Patented Z-Bar® For 2 In 1 Function: Key Retaining Or Non-key Retaining, Cylinder Protection Cap Protects Against Moisture And Dust, SSF014 Class 2 / EN12320 Class 3 Version "S" Lock Body Accepts Standard Scandinavian Snowman Cylinders, Interchangeable Cylinder & Minimum 75 Mm Vertical Shackle Clearance.

INSTALLING ANY LOCKING DEVICE MAY REQUIRE THE CONTRACTOR TO DRILL OUT ROPE LOCK HOLES TO ACCOMMODATE. VIF & WITH MANUFACTURER PRIOR TO ALTERING ANY ROPE LOCK.

6 LOCKING RAIL CABLE LOCK DETAIL

SCALE: NONE

Provide:

Werner Ladder PT7400 Series Fiberglass Stockr's Platform Step Ladders:

(2) Werner Ladder PT7410 Stepladders. These Ladders Will Be For Use In Accessing The Stage Sets At Or Close To Operating Height & In Adjusting Fixture Aiming & Locations.

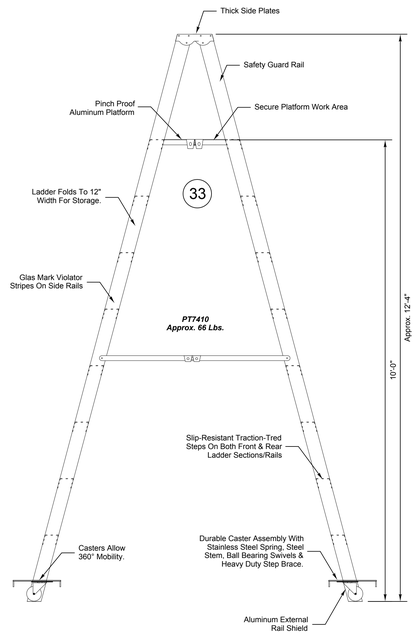
All Ladders Shall Be Type IA Duty Rating, 300 Lb. Load Capacity Per Side (Full Use Rungs On Both Sides Of Ladder).

Store Each Ladder As Per Owner's Instructions. Provide Supplementary Hooks On Storage Room/Space Walls For Ladder Storage As Required.

Ladders Designed For One Or Two Person Simultaneous Use.

All Arrow Notes Below Are Understood To Refer To All Ladders.

NEVER EXCEED THE DUTY RATING OF ANY LADDER, INCLUDING TOOLS, PERSONNEL AND EQUIPMENT.



7 ACCESS LADDER DETAILS

Scale: 3/4" = 1'

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THEATRICAL RIGGING SYSTEM DETAILS - AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

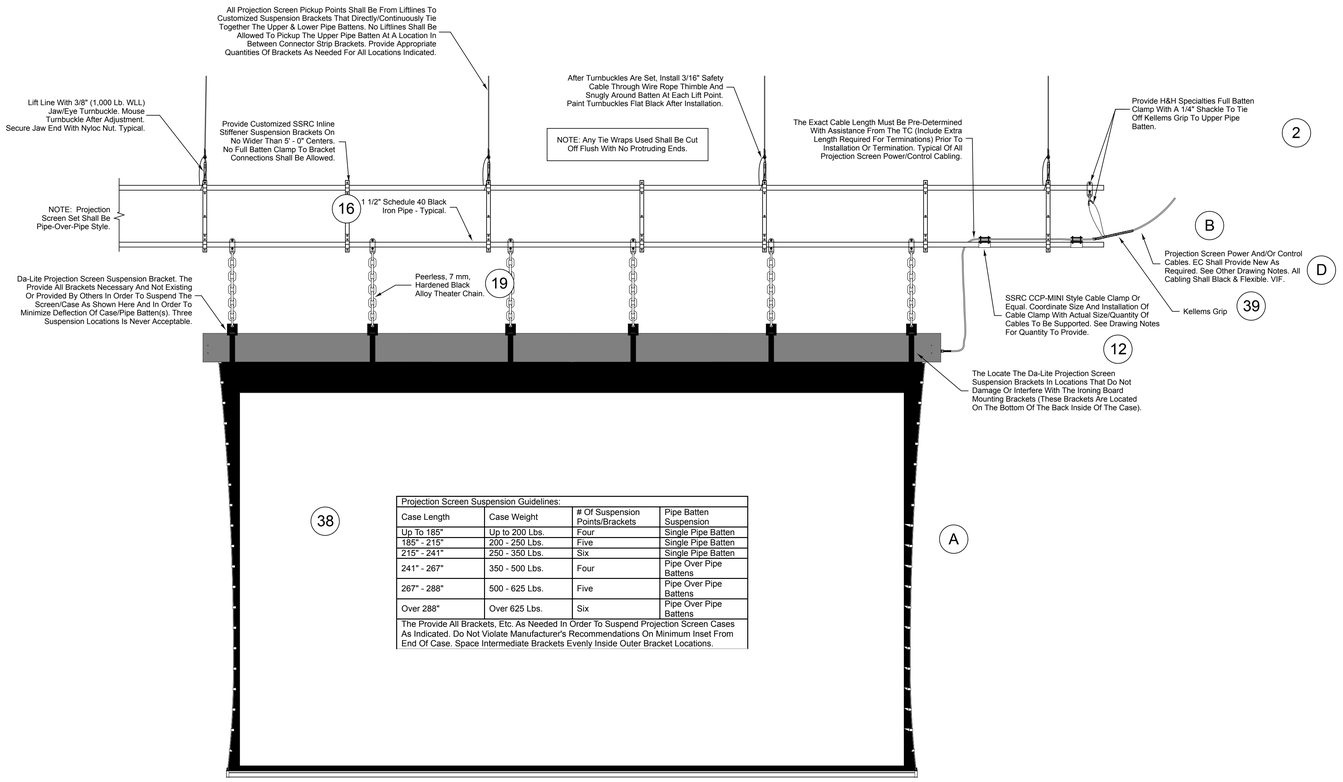
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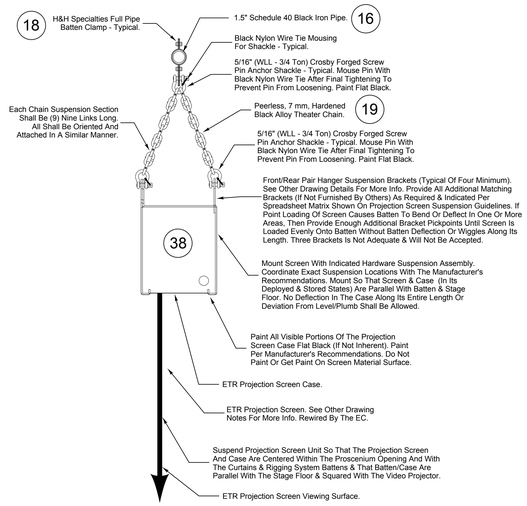
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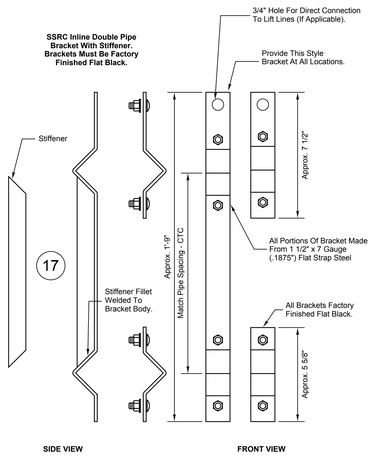
REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.



Projection Screen Suspension Guidelines:			
Case Length	Case Weight	# Of Suspension Points/Brackets	Pipe Batten Suspension
Up To 185"	Up to 200 Lbs.	Four	Single Pipe Batten
185" - 215"	200 - 250 Lbs.	Five	Single Pipe Batten
215" - 241"	250 - 350 Lbs.	Six	Single Pipe Batten
241" - 267"	350 - 500 Lbs.	Four	Pipe Over Pipe Battens
267" - 288"	500 - 625 Lbs.	Five	Pipe Over Pipe Battens
Over 288"	Over 625 Lbs.	Six	Pipe Over Pipe Battens
The Provide All Brackets, Etc. As Needed In Order To Suspend Projection Screen Cases As Indicated. Do Not Violate Manufacturer's Recommendations On Minimum Inset From End Of Case. Space Intermediate Brackets Evenly Inside Outer Bracket Locations.			



1 PROJECTION SCREEN MOUNTING DETAIL
Scale: 1/2" = 1'



2 CUSTOMIZED SUSPENSION BRACKET DETAIL
Scale: 3" = 1'

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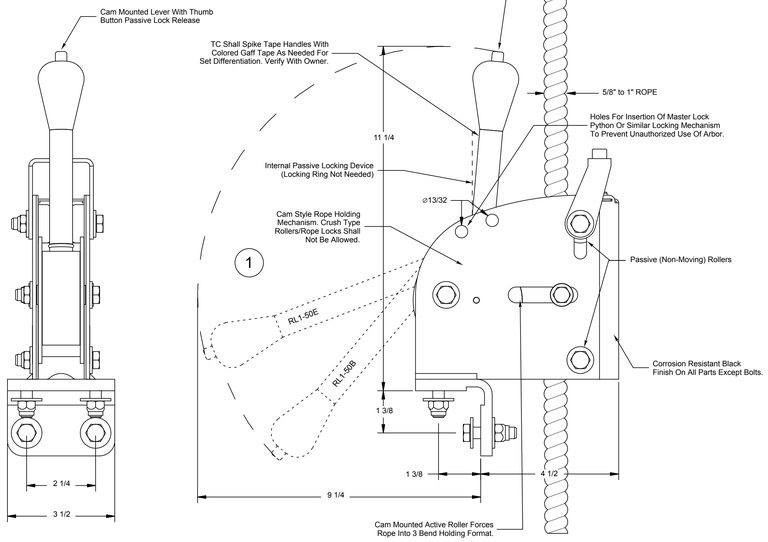
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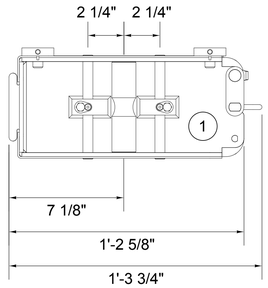
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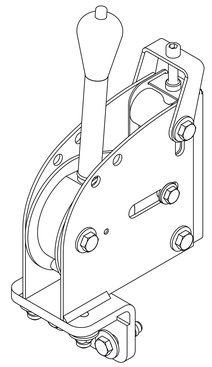
NOTE: Fully Instruct The Owner On The Proper Operation Of This Rope Lock, As It Differs From Others. For This Rope Lock To Be Fully Engaged, The Handle Must Be Pushed Approx. 5° Offstage Of Top Dead Center. In Other Words, The Handle Must Be Slightly Out Of Plumb Towards The Offstage Direction In Order For The Passive, Spring Loaded Pins To Activate & Hold The Handle In The Locked Position.



FRONT VIEW **SIDE VIEW**



TOP VIEW

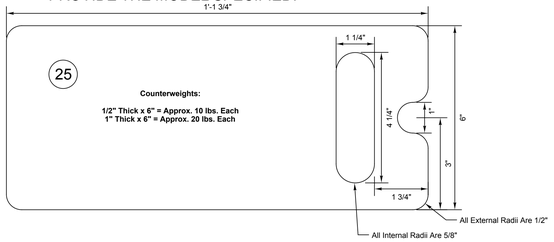


ISO VIEW

1 ROPE LOCK DETAIL
SCALE: 6" = 1'

	FL4-S04	FL4-S06	FL4-S08	FL4-S10
ARBOR WEIGHT - LBS. *	82	110	138	166
BRICK WEIGHT - LBS.	514	841	1167	1494
GROSS WEIGHT - LBS. *	596	951	1305	1660
DIM A - INCHES	43 1/4	67 1/2	91 3/4	116

* INCLUDES STANDARD GUIDE SHOES (11 LBS)
PROVIDE THE MODEL SPECIFIED.

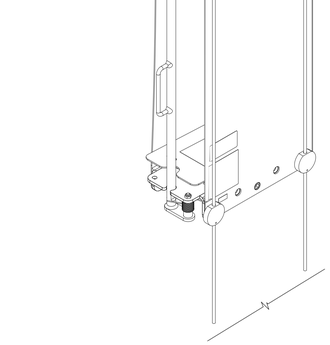


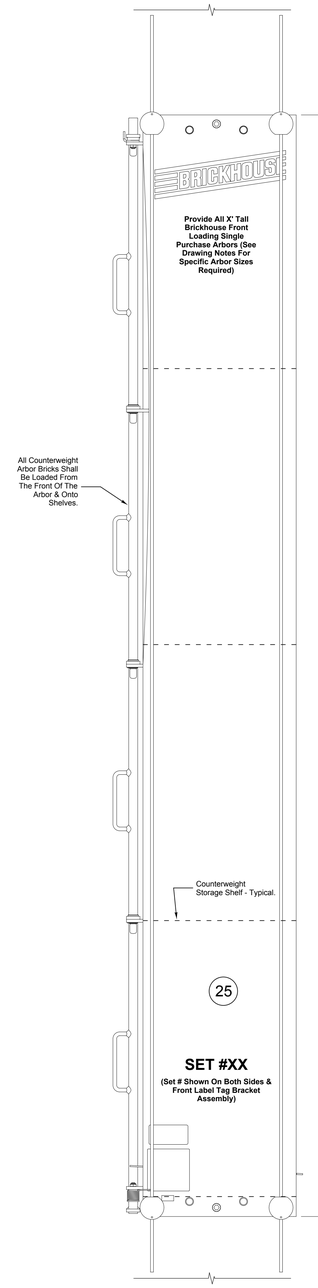
All Dimensions Are Approx. Provide Standard Manufacturer Recommended Suitcase Style Weights That Properly Fit The Front Loading Arbor Provided.

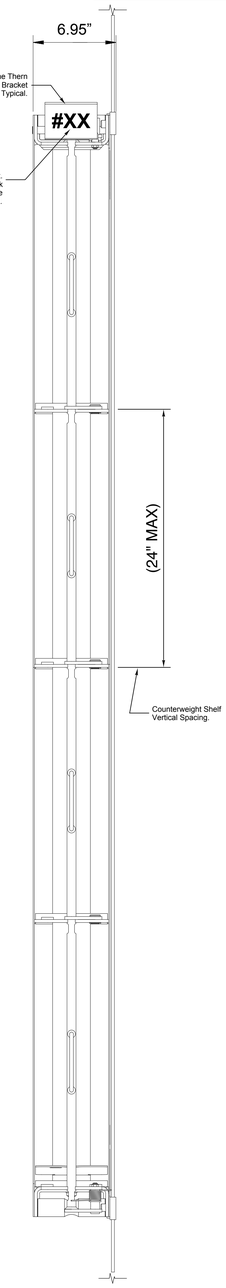
Provide Both 1/2" & 1" Thick Counterweights As Indicated On Drawing Notes Sheet.

Paint All Static Weights Safety Yellow As Indicated.

2 SUITCASE COUNTERWEIGHT DETAIL
SCALE: 6" = 1'

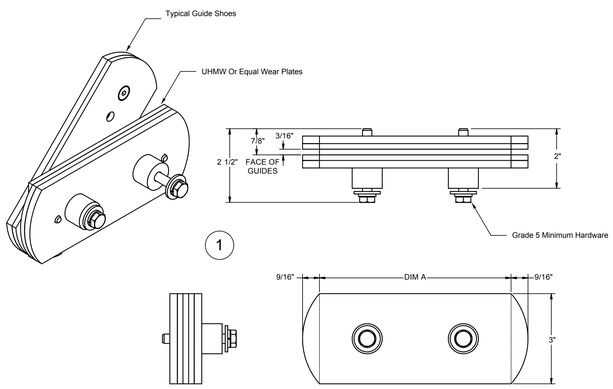






ISO VIEW **SIDE VIEW** **FRONT VIEW**

3 FRONT LOADING ARBOR DETAIL
SCALE: 3" = 1'



GUIDE SPACING	DIM A	WEIGHT*
8 INCHES	6.38	7.8 LBS.
12 INCHES	10.38	11.6 LBS.

* WEIGHT IS PER PAIR

4 FRONT LOADING ARBOR GUIDE SHOE DETAILS
SCALE: NONE

(1) Locking Rail Rope Lock Info Sign For Every Approx. 4' - 0" Of Locking Rail Length - Attached With Bolts To Locking Rail

IMPORTANT!

26

Push Rope Lock Handle Approx. 5 Degrees Offstage Past Top Dead Center (Past The Detent) In Order To Fully Engage The Rope Lock & Spring Loaded Pins.

Provide An Approx. 8" x 2" Engraved Phenolic Velvet Finish Faceplate For The Locking Rail With The Nomenclature Indicated. Mount Securely To Angled Rail Piece. Faceplate Shall Be 1/16" Thick With 1 Side Engraved Black Background/White Text With Adhesive & 2 End Hole Mounting & Beveled Sides.

5 LOCKING RAIL ROPE LOCK SIGNAGE DETAIL
SCALE: 6" = 1'

REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.

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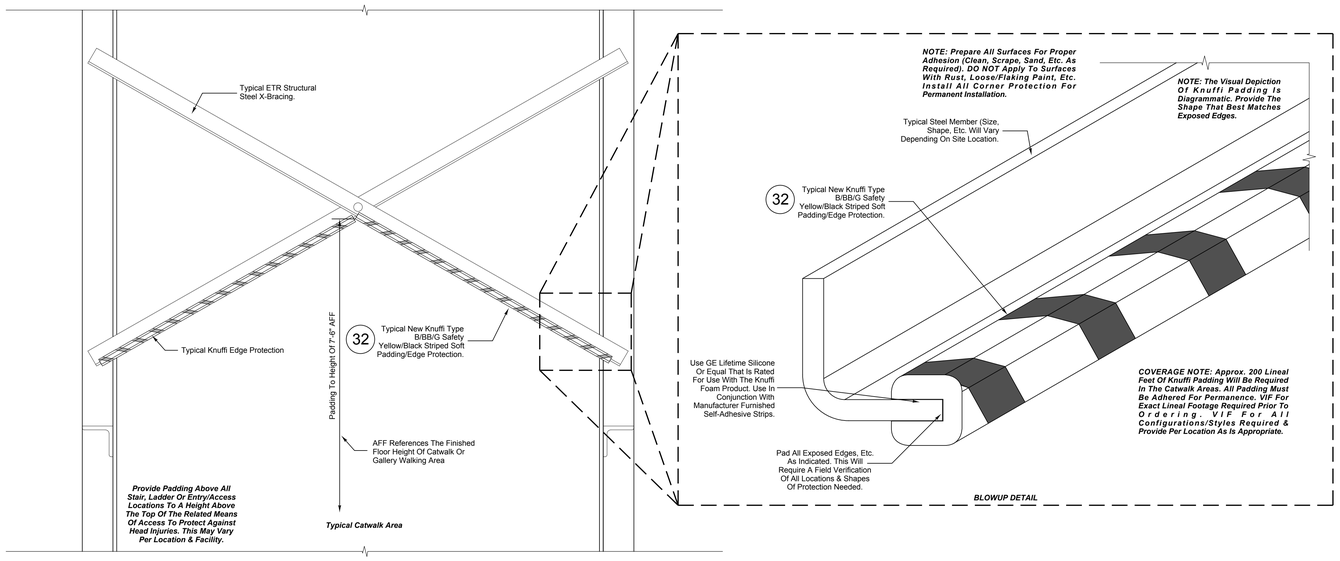
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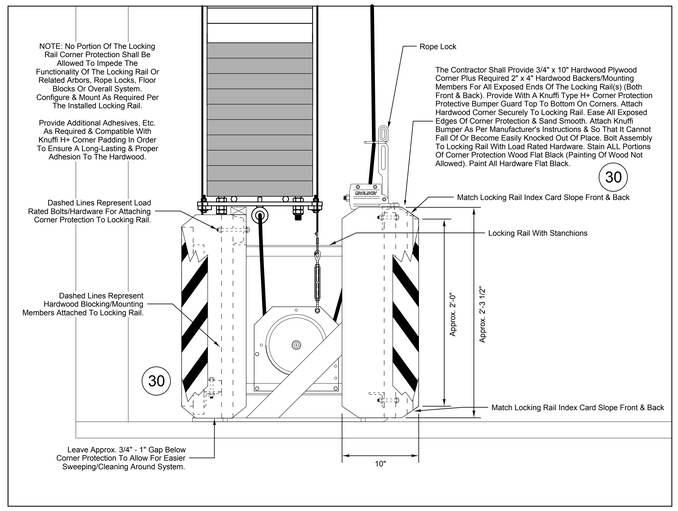
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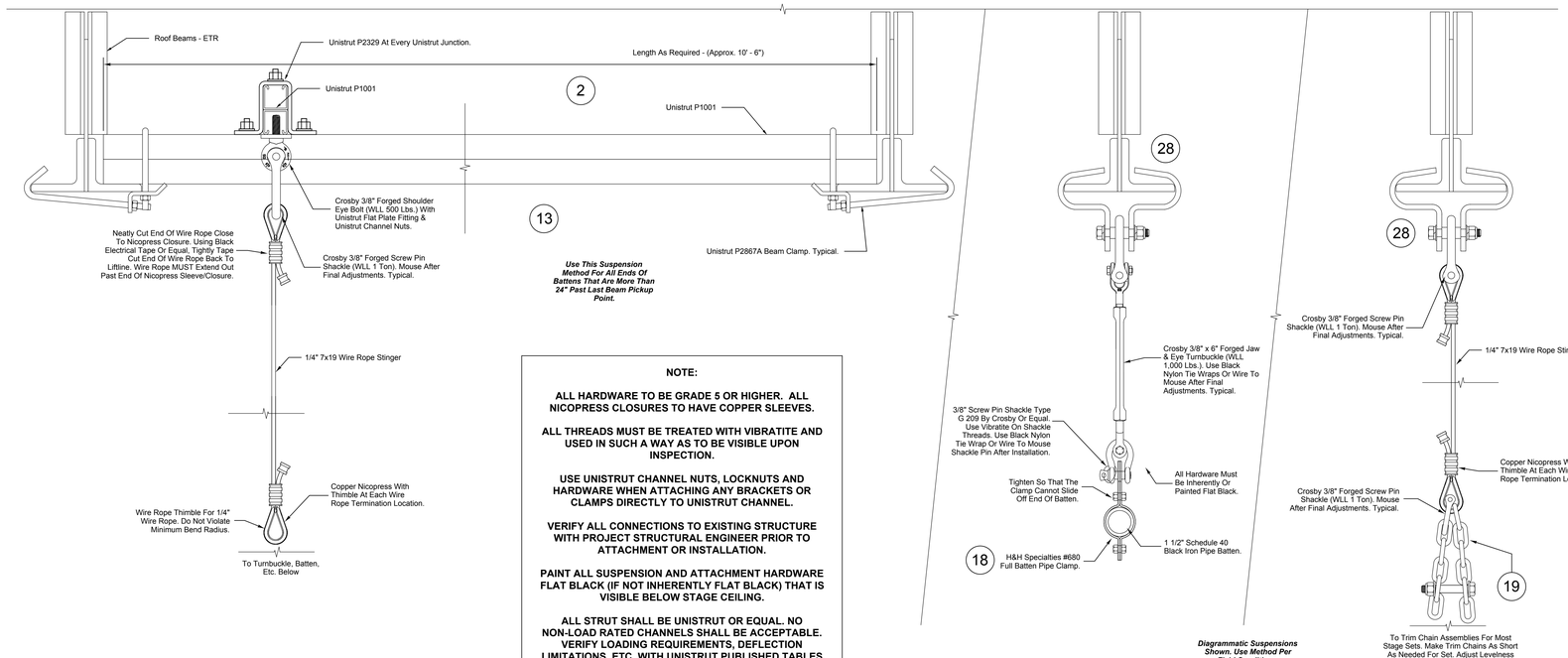
1 CATWALK ANGLE IRON EDGE PROTECTION DETAIL

Scale: 1 1/2" = 1'



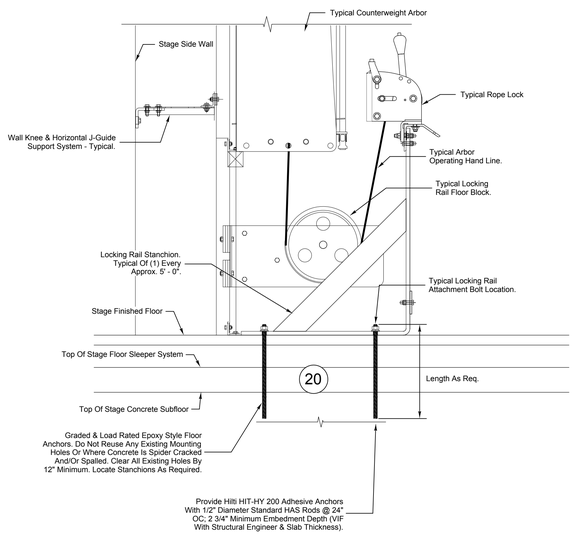
2 LOCKING RAIL CORNER BUMPER DETAIL

Scale: 1 1/2" = 1'



3 BATTEN/LIFTLINE SUPPORTS & CONNECTION DETAILS

Scale: 3" = 1'



4 LOCKING RAIL RELATED INSTALLATION DETAILS

Scale: 1 1/2" = 1'

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THEATRICAL RIGGING SYSTEM DETAILS - AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

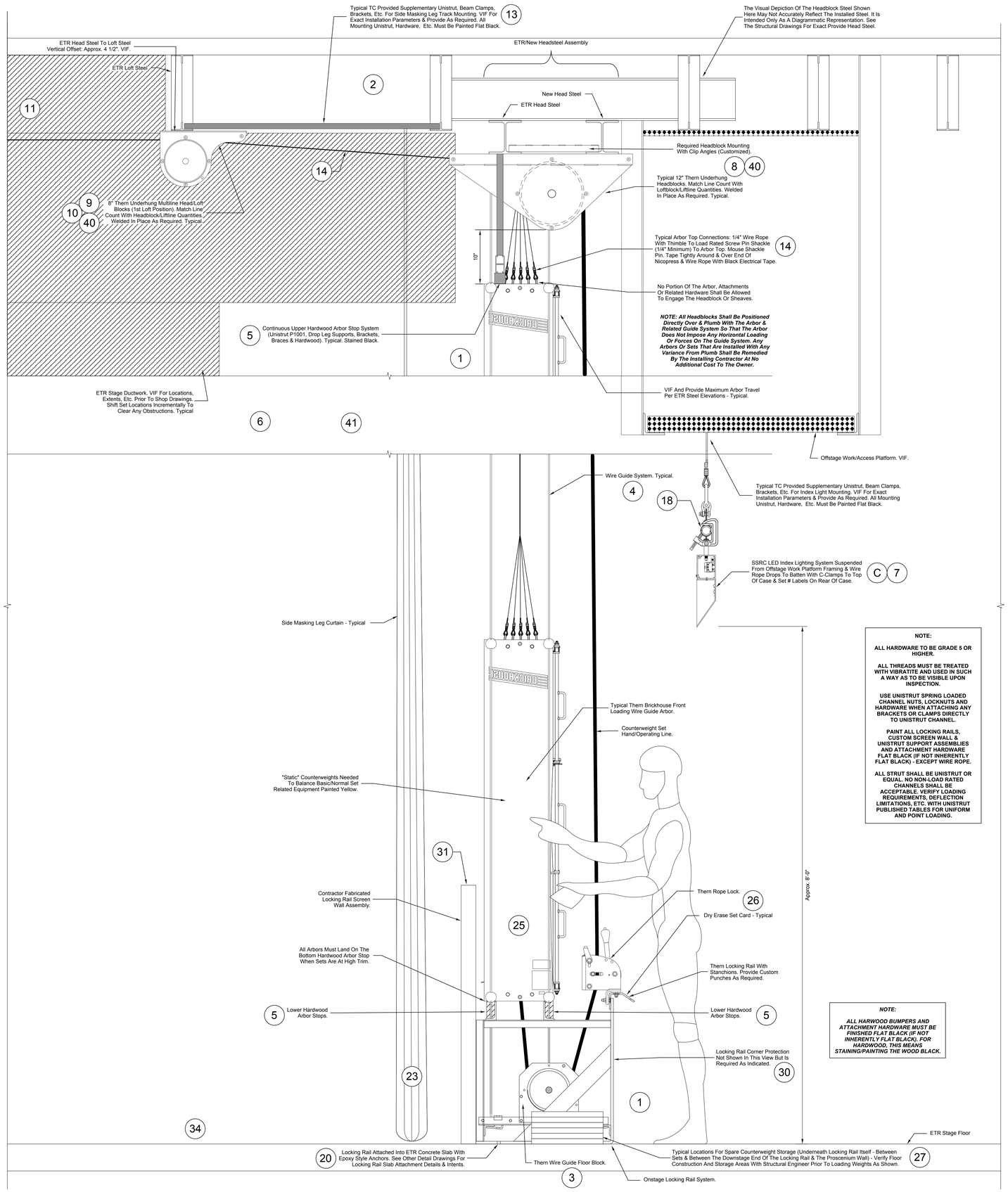
ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TR3.5

PROJECT NO: 2012-254



1 ONSTAGE LOCKING RAIL RELATED INSTALLATION DETAILS
Scale: 1 1/2" = 1'

NOTE:

ALL HARDWARE TO BE GRADE 5 OR HIGHER.

ALL THREADS MUST BE TREATED WITH VIBRATITE AND USED IN SUCH A WAY AS TO BE VISIBLE UPON INSPECTION.

USE UNISTRUT SPRING LOADED CHANNEL NUTS, LOCKNUTS AND HARDWARE WHEN ATTACHING ANY BRACKETS OR CLAMPS DIRECTLY TO UNISTRUT CHANNEL.

PAINT ALL LOCKING RAILS, CUSTOM SCREEN WALL & UNISTRUT SUPPORT ASSEMBLIES AND ATTACHMENT HARDWARE FLAT BLACK (IF NOT INHERENTLY FLAT BLACK) - EXCEPT WIRE ROPE.

ALL STRUT SHALL BE UNISTRUT OR EQUAL. NO NON-LOAD RATED CHANNELS SHALL BE ACCEPTABLE. VERIFY LOADING REQUIREMENTS, DEFLECTION LIMITATIONS, ETC. WITH UNISTRUT PUBLISHED TABLES FOR UNIFORM AND POINT LOADING.

NOTE:

ALL HARWOOD BUMPERS AND ATTACHMENT HARDWARE MUST BE FINISHED FLAT BLACK (IF NOT INHERENTLY FLAT BLACK). FOR HARDWOOD, THIS MEANS STAINING/PAINTING THE WOOD BLACK.

REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.

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THEATRICAL RIGGING SYSTEM DETAILS - AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

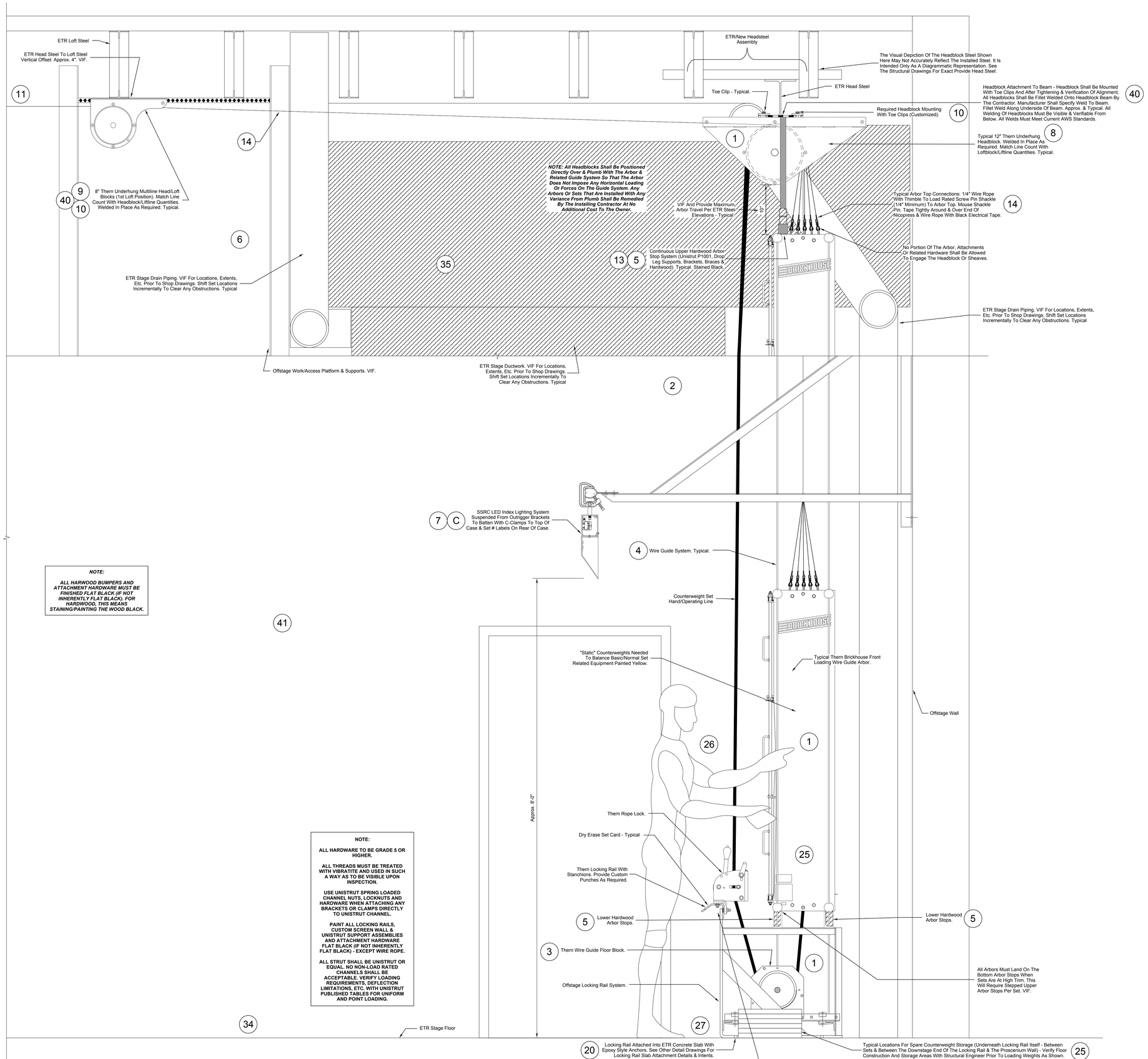
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SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TR3.6

PROJECT NO: 2012-254

REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.



NOTE:

ALL HARWOOD BUMPERS AND ATTACHMENT HARDWARE MUST BE FINISHED FLAT BLACK (IF NOT INHERENTLY FLAT BLACK). FOR HARDWOOD, THIS MEANS STAINING/PAINTING THE WOOD BLACK.

NOTE:

ALL HARDWARE TO BE GRADE 5 OR HIGHER.

ALL THREADS MUST BE TREATED WITH VIBRATITE AND USED IN SUCH A WAY AS TO BE VISIBLE UPON INSPECTION.

USE UNISTRUT SPRING LOADED CHANNEL NUTS, LOCKNUTS AND HARDWARE WHEN ATTACHING ANY BRACKETS OR CLAMPS DIRECTLY TO UNISTRUT CHANNEL.

PAINT ALL LOCKING RAILS, CUSTOM SCREEN WALL & UNISTRUT SUPPORT ASSEMBLIES AND ATTACHMENT HARDWARE FLAT BLACK (IF NOT INHERENTLY FLAT BLACK) - EXCEPT WIRE ROPE.

ALL STRUT SHALL BE UNISTRUT OR EQUAL. NO NON-LOAD RATED CHANNELS SHALL BE ACCEPTABLE. VERIFY LOADING REQUIREMENTS, DEFLECTION LIMITATIONS, ETC. WITH UNISTRUT PUBLISHED TABLES FOR UNIFORM AND POINT LOADING.

1 OFFSTAGE LOCKING RAIL RELATED INSTALLATION DETAILS

Scale: 1 1/2" = 1'

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THEATRICAL RIGGING SYSTEM DETAILS - AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

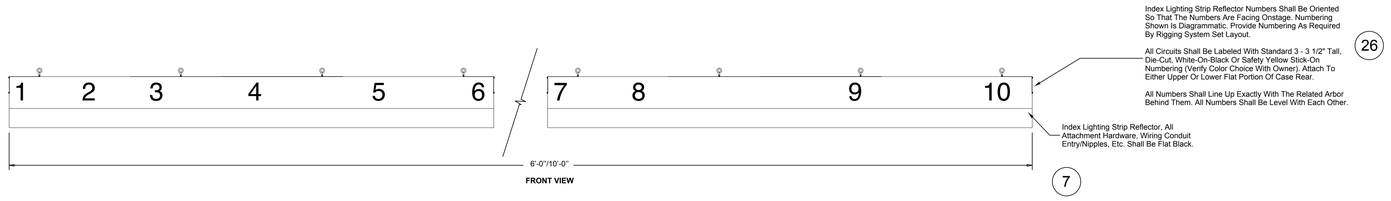
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BR-TR3.7

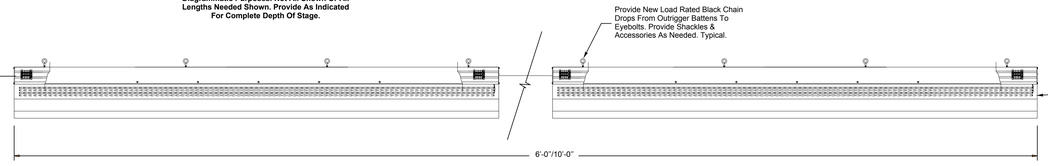
PROJECT NO: 2012-254

REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.

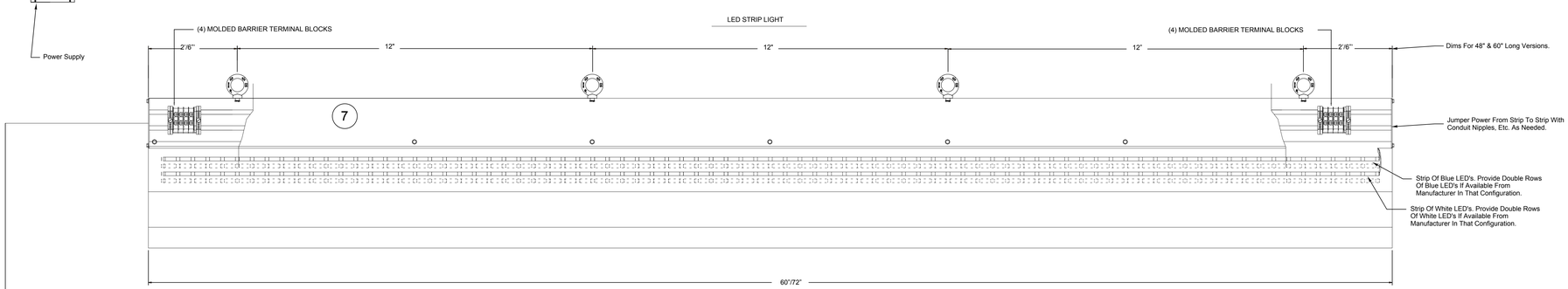


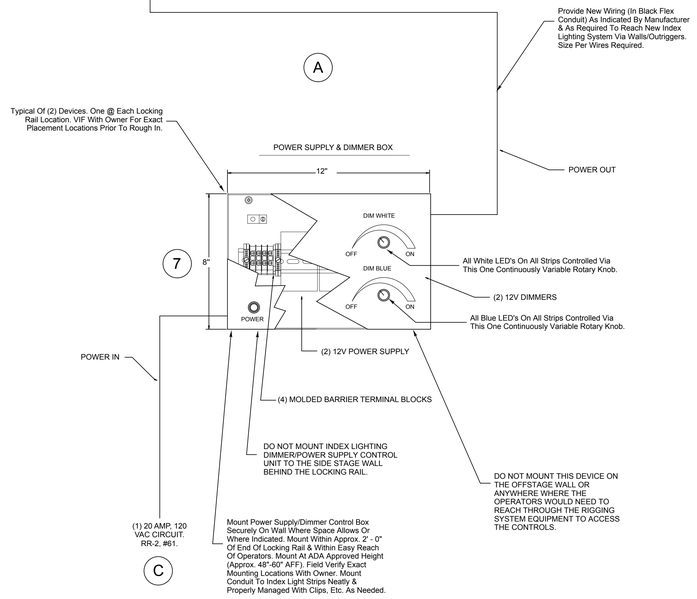
FRONT VIEW

Typical Index Lighting Sections Shown For Diagrammatic Purposes. Not All Shown Or All Lengths Needed Shown. Provide As Indicated For Complete Depth Of Stage.



REAR VIEW





SSRC LED STAGE LEFT INDEX LIGHTING SYSTEM

Provide For Each Side Of Stage & Locking Rail:

10' - 0" & 6' - 0" Long LED Index Rail Lighting Systems (Model #: LED-IRL-XX) - Field Verify Exact Length To Match Locking Rail Length Prior To Ordering. Provide Custom Lengths As Required.

(2) 5' - 0" Section
(1) 6' - 0" Section
(1) White LED Strip Per Section
(1) Blue LED Strip Per Section
(1) Power Supply & Dimmer Box

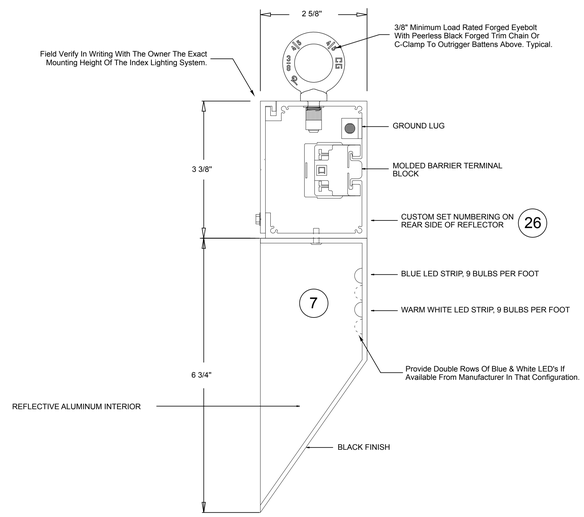
All Related Electrical Work, Black Flex Conduit, Wire, Labor, Etc. For A Complete Installation Shall Be Provided By The EC.

Provide New Outriggers, Outrigger Brackets, Index Lighting Batten & Any Necessary Unistrut Or Other Mounting Hardware Needed To Install/Attach The Index Lighting System.

Provide Custom Set Numbering On Rear Side Of Index Lighting System Reflector As Indicated & Exactly In Line With Each Related Set.

Paint ALL Portions Of The Index Lighting System Flat Black (If Not Inherently Black) - Except Numbering, Knobs, Nomenclature, Etc.

DO NOT MOUNT THE INDEX LIGHTING SYSTEM DIMMER BOX BEHIND THE LOCKING RAIL.



Cross Section N.T.S.

1/8" Aluminum Wireway With A Removable Cover Section In Electro-Static Black Paint Finish.

Unit UL Listed & Labeled.

1 INDEX LIGHTING SYSTEM FLOW & DETAILS
Scale: NONE

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BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

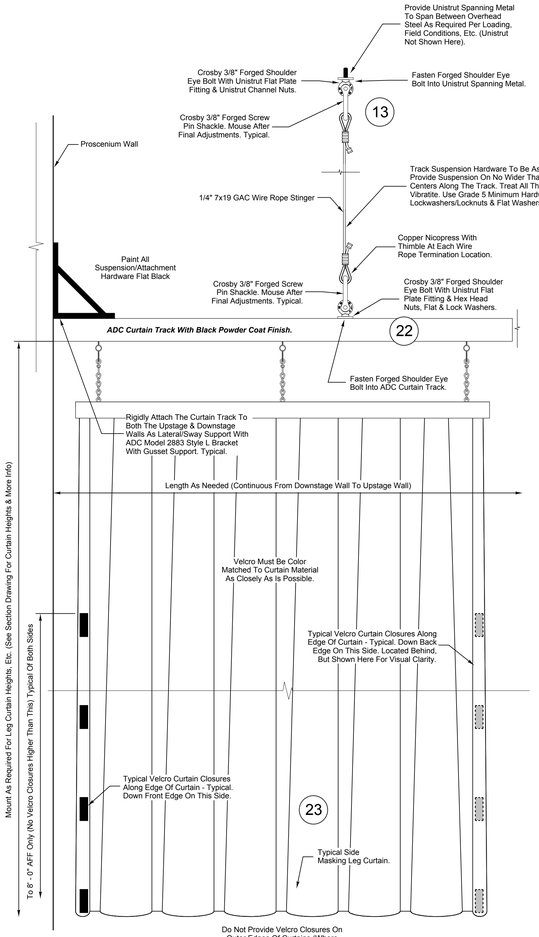
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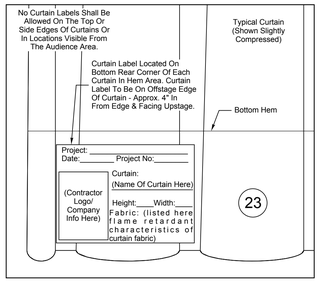
BR-TR3.8

PROJECT NO: 2012-254

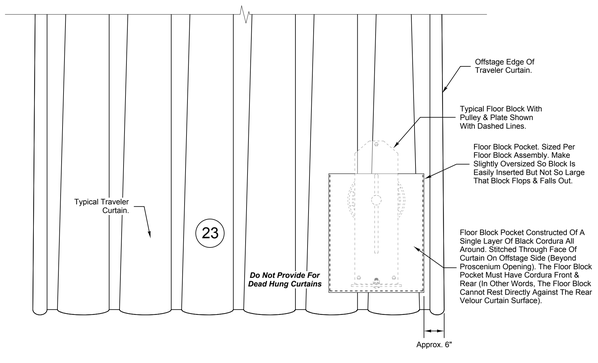


1 CURTAIN & TRACK SUSPENSION/FABRICATION DETAIL
Scale: NONE

Adhere To Curtain Labeling As Follows:
Each Separate Curtain On This Project Shall Incorporate A Durable Label With Permanent, Non-Smudging Ink Detailing The Information Listed Below. For Traveler & Leg Curtains, The Side Of The Stage They Go On (SR or SL) Should Also Be Indicated. All Handwritten Info Shall Be Written In Plain, Neat Block Lettering With Permanent, Non-Smudging Ink That Will Not Leach Into The Label Over Time. All Labels Shall Be Stitched Onto Curtain With One Continuous Row Of Stitching On All Sides.



2 CURTAIN LABEL DETAIL
Scale: NONE



4 CURTAIN TRACK FLOOR BLOCK POCKET FABRICATION DETAIL
Scale: NONE



Typical Side Masking Leg Curtain Tieback Straps - Provide As Follows: (2) 18" Long, (2) 24" Long, (2) 36" Long & (2) 42" Long. Store As Directed By Owner. Provide Wall Anchor/Eye Bolts On The Upstage & Downstage Walls Directly In Line With The Side Masking Leg Tracks. Provide All Wall Blocking, Etc. As Is Required. DO NOT Install Wall Eye Bolts Through Gyp Only. These Must Be Anchored To Something Substantial (Wood Blocking, Stud, Concrete Block, Etc.). Wall Eye Bolts Must Be Smooth, Forged, Flat Black & Only Protrude From The Wall Enough To Clip Into. Mount At Approx. 60" AFF.

Typical General Curtain Tieback Straps - Provide As Follows: (6) 48" Long, (6) 60" Long & (6) 72" Long. Store As Directed By Owner. These Are To Be Used By The Owner To Gather The Curtains When They Need To Be Stored Out Of The Way For Any Particular Event But Not Tied To Walls (Typical For Main Tracked Legs, Traveler Curtains, Etc).

Provide An Arriba Style Soft Sided Zip Closure Bag To Store Straps. See Keyed Notes For More Info.

3 CURTAIN TIEBACK STRAP/SLING DETAILS
SCALE: 3" = 1'

CURTAIN STORAGE CARTS:

Each Unit Shall Be A New, Extra Heavy Duty Canvas Laundry Cart/Hamper Truck Unit Sized To Comfortably Fit All Stage Curtains (Unless Specific Sizes & Quantities Listed Below). Field Verify Cart Storage Locations With The Owner & Provide Carts That Will Fit Through Required Access Doorways.

Provide:

(1) 24 Bushel (BU) Cart For Each Traveler Curtain
(1) 20 Bushel (BU) Cart For The Cyclorama/Sharkstooth Scrim Curtains
(1) 20 Bushel (BU) Carts For The Leg, Valance & Border Curtains

Each Laundry Cart Truck Is To Feature Heavy-Duty Zinc Plated Electro-Welded, High Tensile Spring Steel Construction, All Swivel Heavy Duty Caster Set In A Rectangle Pattern Configuration (3" Casters For Carts 20 BU And Under; 4" Casters For Carts 24 BU And Over), Water & Wear Resistant Upper Band, Stitched And Reinforced Vertical Pipe Support Pockets & Wear Points, Riveted Stress Points, Handles For Maneuverability, Rust Resistant Welded Steel Bottom Support, Hardwood Runners And A 3/4" Thick Hinged Birch Plywood Lid (Or Equal) With Zinc Plated Hasps/Dog Clip Closures.


Typical Curtain Storage Unit

24

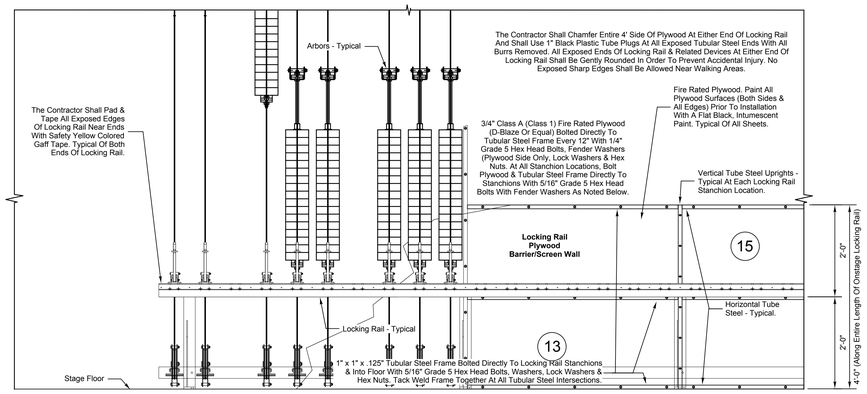
All Carts Shall Be Sized For The Curtain(s) That Will Be Stored In Them (Unless Specific Sizes Have Been Listed Above). All Carts Shall Be Load Rated For The Maximum Weight Of Curtain(s) To Be Stored In Them. Storage Location For Carts TBD By Owner.

Nothing Is To Be Stored Or Stacked Upon The Curtain Storage Units At Any Time (Except Other Carts As Needed). Stacked Carts Are Limited To (2) Units High MAX.

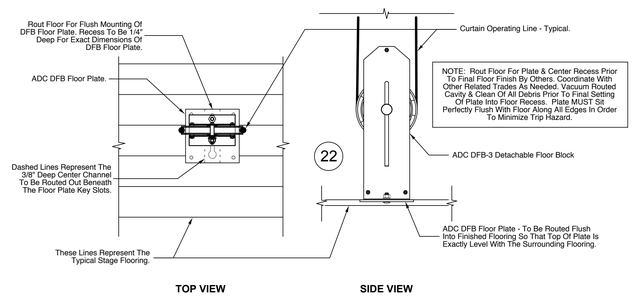
Diagram Above Is Typical Of Curtain Storage Units. Vinyl Sided Laundry Carts/Hampers Shall Not Be Allowed.

No Curtain Track, Rotators Or Misc. Hardware Is To Be Stored Within Or On Top Of Any Of The Curtain Storage Units.

5 CURTAIN STORAGE CART DETAIL
Scale: NONE



6 PARTIAL ELEVATION: ONSTAGE LOCKING RAIL
SCALE: 3/4" = 1'



7 DETACHABLE FLOOR BLOCK DETAIL
SCALE: 1 1/2" = 1'

REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.

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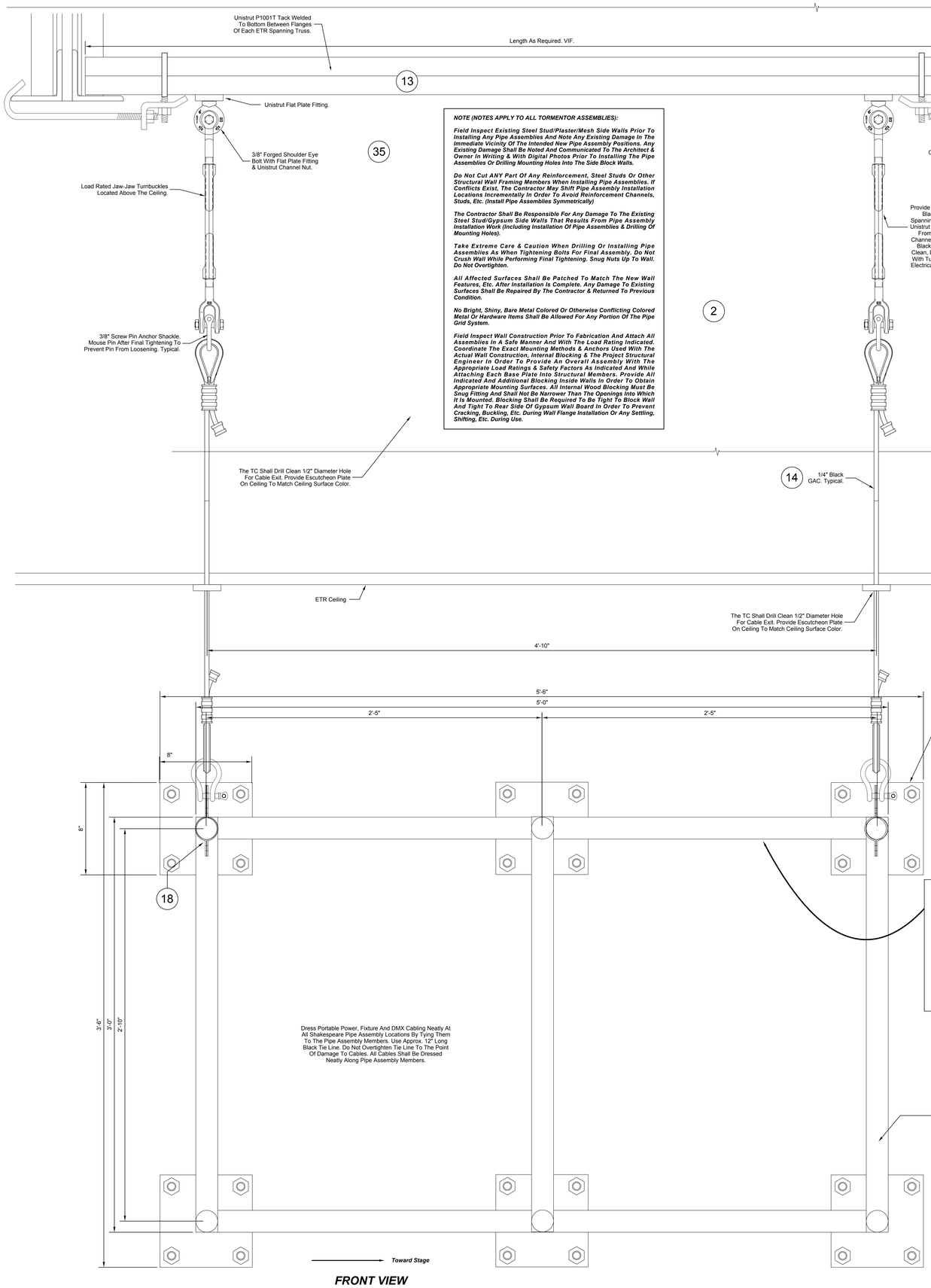
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THEATRICAL RIGGING SYSTEM DETAILS - AREA D2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED#: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TR3.9

PROJECT NO: 2012-254



1 TORMENTOR PIPE ASSEMBLY & MOUNTING DETAILS
Scale: 3" = 1'

REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.

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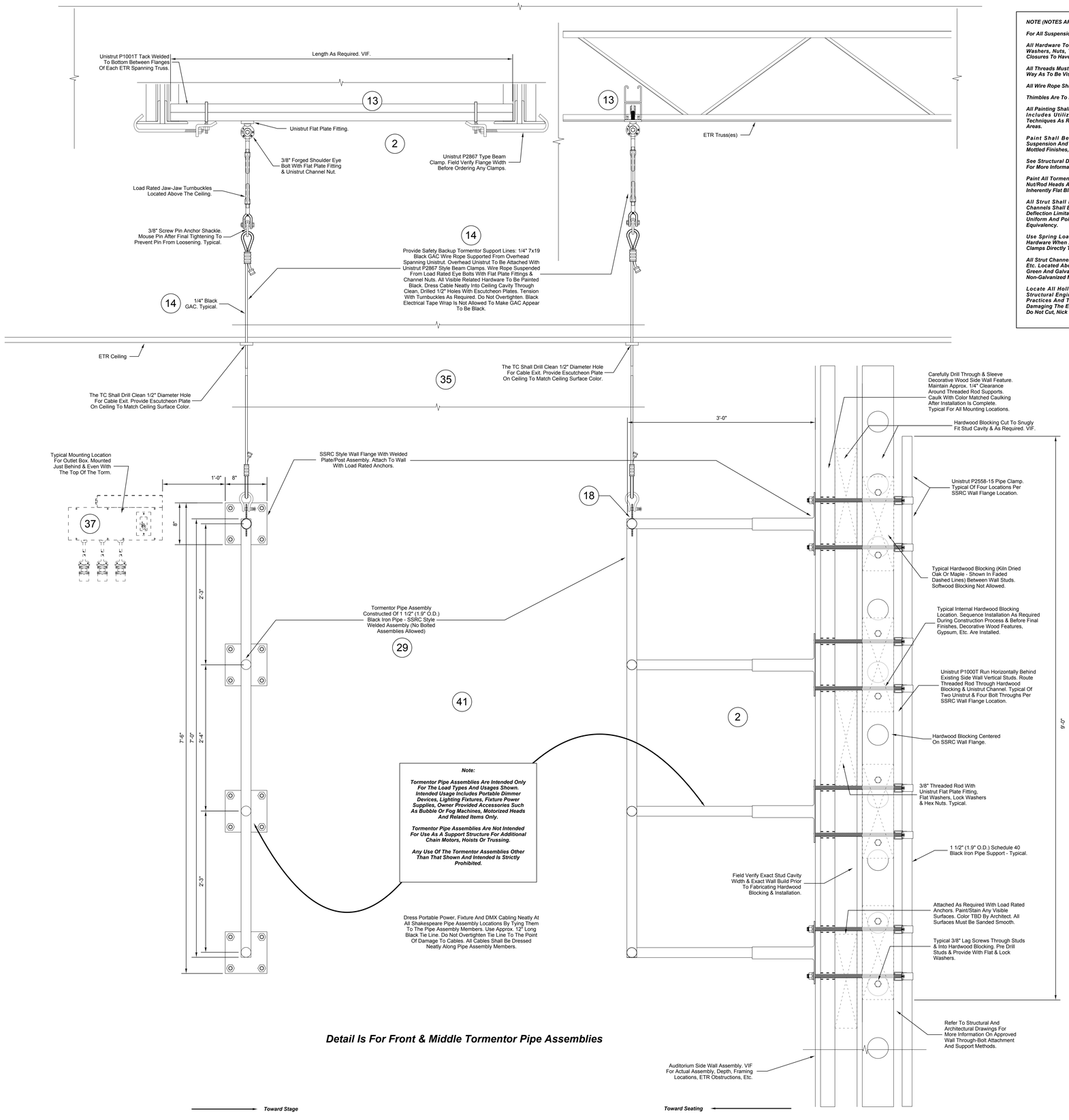
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BR-TR3.10

PROJECT NO: 2012-254

SED # 02-56-00-10-0-004-027, 07-56-00-10-0-034-028



1 TORMENTOR PIPE ASSEMBLY & MOUNTING DETAILS

Scale: 1 1/2" = 1'

Detail Is For Front & Middle Tormentor Pipe Assemblies

NOTE (NOTES APPLY TO ALL TORMENTOR ASSEMBLIES):

For All Suspension/Bracing Details:

All Hardware To Be 3/8" Diameter Grade 5 Or Higher (Bolts, Washers, Nuts, Turnbuckles, Shackles, Etc.). All Nicopress Closures To Have Copper Sleeves.

All Threads Must Be Treated With Vibratite And Used In Such A Way As To Be Visible Upon Inspection.

All Wire Rope Shall Be 1/4" 7x19 Strand Black Wire Rope.

Thimbles Are To Be Used At All Nicopress Locations.

All Painting Shall Be Performed In A Professional Manner. This Includes Utilizing Proper Priming And Finish Coating Techniques As Required And The Proper Masking Of Adjacent Areas.

Paint Shall Be Spray Applied Where Possible Before Suspension And Shall Be Multi-coat And Neat. No Drips, Runs, Mottled Finishes, Etc. Shall Be Allowed.

See Structural Drawings And Related Specification Sections For More Information.

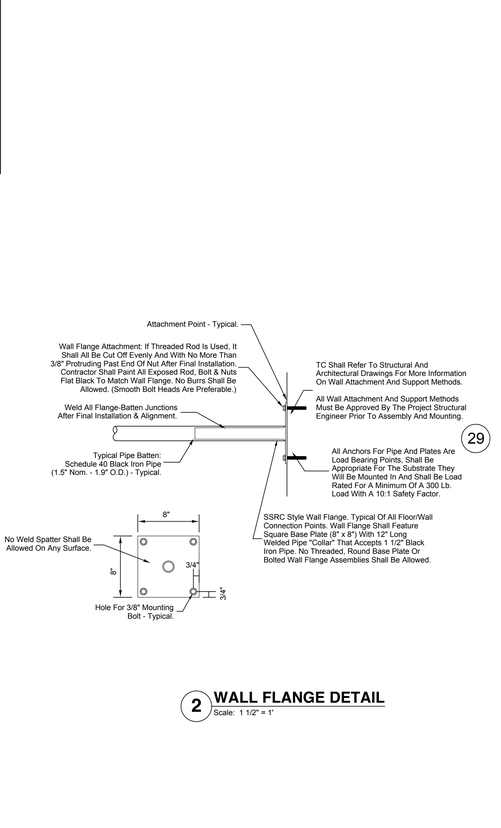
Paint All Tormentor Assemblies, Accessories, Visible Anchor Nut/Rod Heads And All Attachment Hardware Flat Black (If Not Inherently Flat Black).

All Strut Shall Be Unistrut Or Equal. No Non-load Rated Channels Shall Be Acceptable. Verify Loading Requirements, Deflection Limitations, Etc. With Unistrut Published Tables For Uniform And Point Loading In Determining Alternate Product Equivalency.

Use Spring Loaded Unistrut Channel Nuts, Locknuts And Hardware When Attaching Any Unistrut Channel, Brackets Or Clamps Directly To Other Unistrut Channel.

All Strut Channel And Related Beam Clamps, Misc. Hardware, Etc. Located Above The Auditorium Ceiling Shall Be Unistrut Green And Galvanized. No Shiny, Unprimed And Unpainted Or Non-Galvanized Metal Shall Be Allowed.

Locate All Hollow Wall Anchors As Directed By Project Structural Engineer. Drill All Holes By Standard Accepted Practices And To Prevent Spalling, Cracking Or Otherwise Damaging The Existing Speed Tile Walls Or Plaster Finishes. Do Not Cut, Nick Or Damage Any Existing Reinforcing.



2 WALL FLANGE DETAIL

Scale: 1 1/2" = 1'

NOTE (NOTES APPLY TO ALL TORMENTOR ASSEMBLIES):

Field Inspect Existing Steel Stud/Plaster/Mesh Side Walls Prior To Installing Any Pipe Assemblies And Note Any Existing Damage In The Immediate Vicinity Of The Intended New Pipe Assembly Positions. Any Existing Damage Shall Be Noted And Communicated To The Architect & Owner In Writing & With Digital Photos Prior To Installing The Pipe Assemblies Or Drilling Mounting Holes Into The Side Block Walls.

Do Not Cut ANY Part Of Any Reinforcement, Steel Studs Or Other Structural Wall Framing Members When Installing Pipe Assemblies. If Conflicts Exist, The Contractor May Shift Pipe Assembly Installation Locations Incrementally In Order To Avoid Reinforcement Channels, Studs, Etc. (Install Pipe Assemblies Symmetrically)

The Contractor Shall Be Responsible For Any Damage To The Existing Steel Stud/Gypsum Side Walls That Results From Pipe Assembly Installation Work (Including Installation Of Pipe Assemblies & Drilling Of Mounting Holes).

Take Extreme Care & Caution When Drilling Or Installing Pipe Assemblies As When Tightening Bolts For Final Assembly. Do Not Crush Wall While Performing Final Tightening. Snug Nuts Up To Wall. Do Not Overtighten.

All Affected Surfaces Shall Be Patched To Match The New Wall Features, Etc. After Installation Is Complete. Any Damage To Existing Surfaces Shall Be Repaired By The Contractor & Returned To Previous Condition.

No Bright, Shiny, Bare Metal Colored Or Otherwise Conflicting Colored Metal Or Hardware Items Shall Be Allowed For Any Portion Of The Pipe Grid System.

Field Inspect Wall Construction Prior To Fabrication And Attach All Assemblies In A Safe Manner And With The Load Rating Indicated. Coordinate The Exact Mounting Methods & Anchors Used With The Actual Wall Construction, Internal Blocking & The Project Structural Engineer In Order To Provide An Overall Assembly With The Appropriate Load Ratings & Safety Factors As Indicated And While Attaching Each Base Plate Into Structural Members. Provide All Indicated And Additional Blocking Inside Walls In Order To Obtain Appropriate Mounting Surfaces. All Internal Wood Blocking Must Be Snug Fitting And Shall Not Be Narrower Than The Openings Into Which It Is Mounted. Blocking Shall Be Required To Be Tight To Block Wall And Tight To Rear Side Of Gypsum Wall Board In Order To Prevent Cracking, Buckling, Etc. During Wall Flange Installation Or Any Settling, Shifting, Etc. During Use.

REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.

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THEATRICAL RIGGING SYSTEM DETAILS - AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

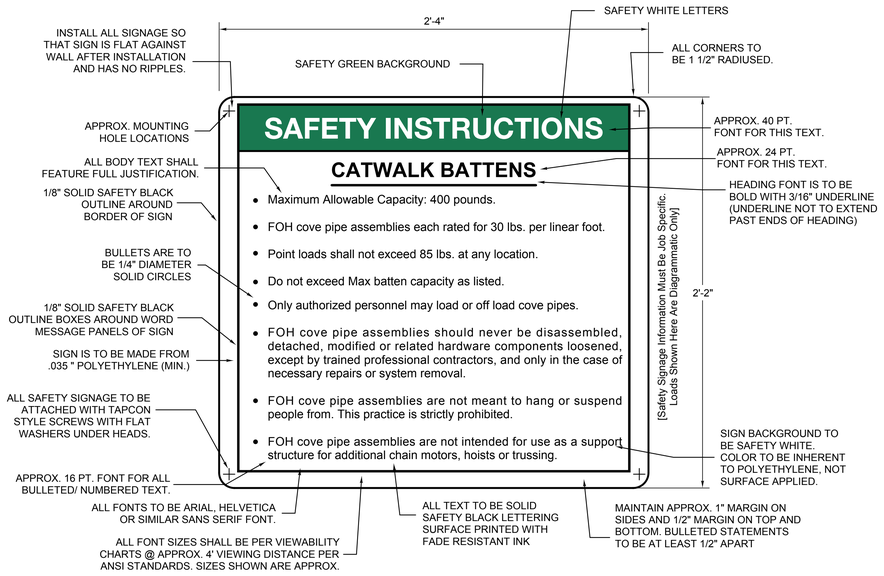
ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED # 07-06-00-01-0-034-027, 07-06-00-01-A-034-028

BR-TR3.11

PROJECT NO: 2012-254



1 SAMPLE FOH COVE BATTEN SAFETY SIGNAGE
SCALE: NONE

26

SIGNAGE TYPE NOTES:

Provide The Following Custom Safety Signs (See Written Specifications For More Information)

(1) General Notice Informational Sign (Mount On One Side Of The Stage)

(2) General Warning Safety Signs (Mount One On Each Side Of The Stage)

(1) Set Capacity Sign - Counterweight System (Mount Beside Locking Rail System)

(1) Standard Dead Hung Rigging Operational Guidance Sign (Mount On One Side Of The Stage)

(2) Standard Counterweight Rigging Operational Guidance Signs (Mounted On Either End Of Locking Rail Behind Or Beside Locking Rail System)

(XX) Counterweight Storage Signs (Mount As Indicated)

(1) Dead Hung Rigging Sign (Mount On One Side Of The Stage)

(1) Counterweight Rigging Sign (Mount On One Side Of The Stage)

(1) Rigging Inspections Sign (Mount On One Side Of The Stage)

(1) Catwalk Safety Sign (Mount At Or Near Catwalk Entrance)

(1) Catwalk Battens Sign (Mount At Or Near Catwalk Entrance)

(1) Tormentor Loading Sign (Mount On One Side Of The Stage)

(1) Dimmer Rack Safety Sign (Mount Near Dimmer Rack)

(1) Relay Rack Safety Sign (Mount Near Relay Rack)

Field Verify All Exact Mounting Locations With The Owner & Mount Where Existing Obstructions Permit. DO NOT Mount Any Safety Signage Where It Is Hidden Behind Curtains, Doors, Etc. Or Where It Cannot Be Easily Seen & Read.

SIGNAGE MOUNTING NOTES:

Do Not Mount Any Signage In Locations Where It Is Visible From The Audience Areas (E.G., Do Not Place Signs On Open Galleries Facing Audience Or Signs On Upstage Wall Within View From Seating Areas). Do Not Place Any Signage In Locations Where It Could Become A Distraction To Audience Members.

Signage Is Intended For Stage Hand & Operator Information, Use & Warning. Signage Is Not Intended To Be Visible To The Public. Mount In Suggested Locations Unless Otherwise Instructed By The Owner In Writing.

Generally (With The Exception Of House Deivces-Truss, Torms, Etc.), All Signage Should Be Mounted Near The Device(s) Being Described In The Signage (Within Approx. 3' - 0").

Signs Shall Not Be Mounted To The Upstage Wall Inside The Extents Of The Proscenium Opening Or In Other Locations Where They Are Buried Behind Obstructions.

Signs Shall Not Be Installed Higher Than 8' - 0" AFF To Top Of Sign Unless Specifically Indicated.

All Signage Must Be Installed In Areas Where It Is Visible From Most Onstage & Wing Vantage Points.

GENERAL SIGNAGE NOTES:

All Signage Shall Meet The ANSI Z535.2-2011 (R2017) Or Most Recent Version.

All Safety Signage Shown Is Diagrammatic In Nature. Specific Safety Signage Text & Statements Must Accurately Reflect The Rigging At The Intended Facility. Verify All Pertinent Signage Text With The Designed & Intended System(s). Do Not Include Any Signage Text That Does Not Apply To This Particular Installation. Signage Sizes & Related Text May Need To Be Larger Than What Is Shown Due To Increased Text Demands And ANSI Requirements For Readability At Distance. Typical Readable Distance Is Generally Understood To Be Approx. 10' - 0" To 15' - 0".

Do Not Reduce Signage Text Font Size In Order To Fit Intended Verbiage Onto Specific Signage Size Shown (Except For Critical Signage Sizes Such As Unistrut, Etc. Signs).

Do Not Cherry Pick Desired Text From Examples Shown Or Rename Signage Titles To Suit Personal Tastes. Include All Pertinent & Relevant Text Shown As It Pertains To This Project As Well As Any Additional Text That May Be Relevant. Reinterpretations Of Text Are Not Allowed Without Prior Written Approval.

For All Set Naming Nomenclatures As Shown On The "Set Capacity Chart" Use Those Names As Shown On The Contract Documents Unless Specifically Instructed By The Owner In Writing To Use Alternate Naming Conventions. If The Owner Is Used To Calling Certain Set Types By Specific Names (I.E. Stage Electrics May Be Colloquially Referred To As "LX1, LX2" Or Border Curtains May Be Variously Referred To As Teaser, Olio Valance, Top Masking, Header, Etc.). In Those Cases It Would Be Best To Maintain Owner Familiarity In Naming Conventions To Avoid Confusion. Verify With Owner In Writing Prior To Signage Fabrication.

All Signage Is To Be Installed In Locations That Make Sense & That Meet The Current ANSI Standards, Unless Otherwise Instructed In Writing By Owner To Mount Elsewhere. (I.E. Place Signage Near, Beside Or Above Equipment It Is Referring To & Within Easy View Of Operators, Except For Any Visible FOH Locations.).

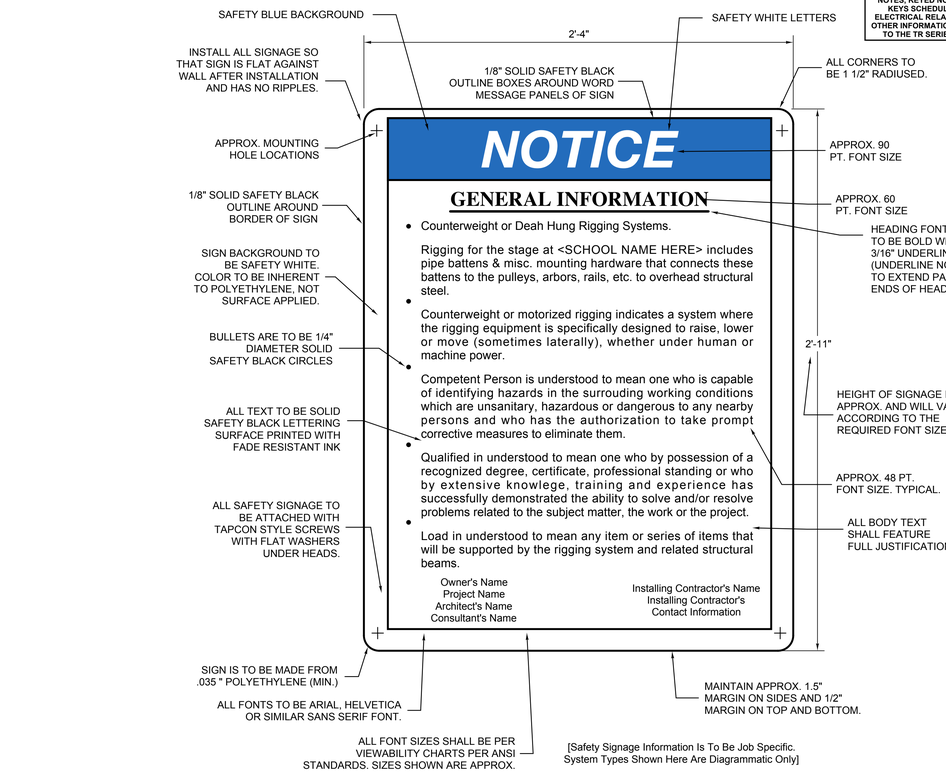
All Signage Colors Referenced Shall Meet The ANSI Z535.1-2017 Or Most Recent Version Color Technical Specifications. Specific Pantone Colors Or Color Mix Makeup Percentages Have Not Been Noted Here. Refer To The Most Recent Version Of The Referenced Standard For Exact Color Requirements.

Do Not Include QR Codes Or Other Links/URL's To Specific Standards On Any Signage, As These May Change And/Or Be Superseded Over Time. Instead Reference Higher Level Locations On A Relevant Website (I.E. "Visit The 'Download Standards' Page On ESTA's Technical Standards Program Website @ TSP.ESTA.ORG For More Information" Or Something Similar).

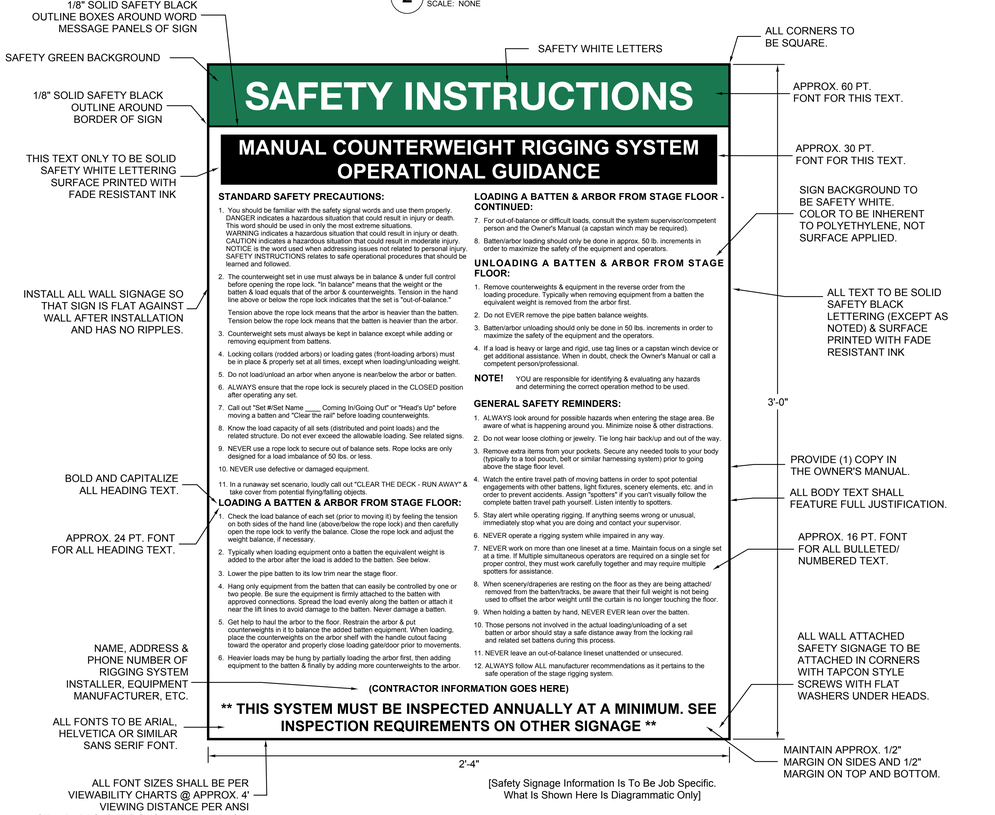
All Signage Must Be Spell-Checked By The Contractor. No Signage With Spelling And/Or Major Grammatical Mistakes Shall Be Allowed. Verify That All Final Signage Text Matches Approved Shop Drawings Prior To Installation. Any Deficient Signage Will Be Replaced By The Contractor At His Own Expense.

Fully Instruct The Owner On Periodic Maintenance Required Of Signage To Keep Clean & To Maintain Good Legibility Over Time. Inform Not To Use Harsh Cleaning Chemicals On Signage.

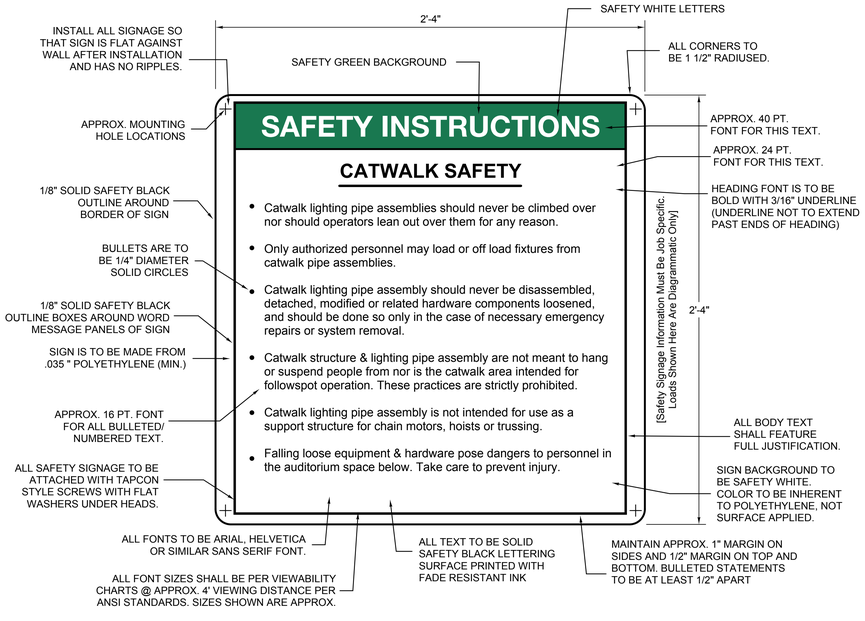
Do Not Place Any Safety Signage Where It May Get Damaged Or Dislodged Due To Set, Arbor, Motor Or Other Stage Device Movement Or In Areas Where Portions Of The Signage Will Be Blocked By Doors, Racks, Gates, Rigging System Components, Etc.



2 SAMPLE GENERAL INFORMATION SIGNAGE
SCALE: NONE



4 SAMPLE STANDARD OPERATIONAL SIGNAGE
SCALE: NONE



3 SAMPLE CATWALK SAFETY SIGNAGE
SCALE: NONE

REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.

DRAWN BY:	SPJ
CHECKED BY:	SPJ
DATE:	07/24/2026
PHASE:	CD

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1000 BROADWAY ST, ELMIRA, NY 14904

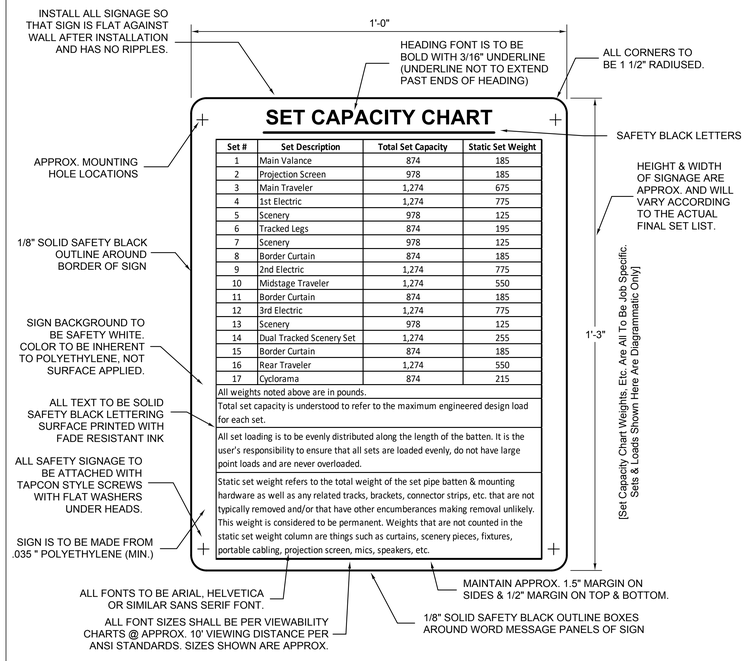
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BR-TR3.12

PROJECT NO: 2012-254

SIGNAGE NOTES:

See Other Rigging Signage Detail Sheets For More Info On Related Requirements.



Set #	Set Description	Total Set Capacity	Static Set Weight
1	Main Valance	874	185
2	Projection Screen	978	185
3	Main Traveler	1,274	675
4	1st Electric	1,274	775
5	Scenery	978	125
6	Tracked Legs	874	195
7	Scenery	978	125
8	Border Curtain	874	185
9	2nd Electric	1,274	775
10	Midstage Traveler	1,274	550
11	Border Curtain	874	185
12	3rd Electric	1,274	775
13	Scenery	978	125
14	Dual Tracked Scenery Set	1,274	255
15	Border Curtain	874	185
16	Rear Traveler	1,274	550
17	Cyclorama	874	215

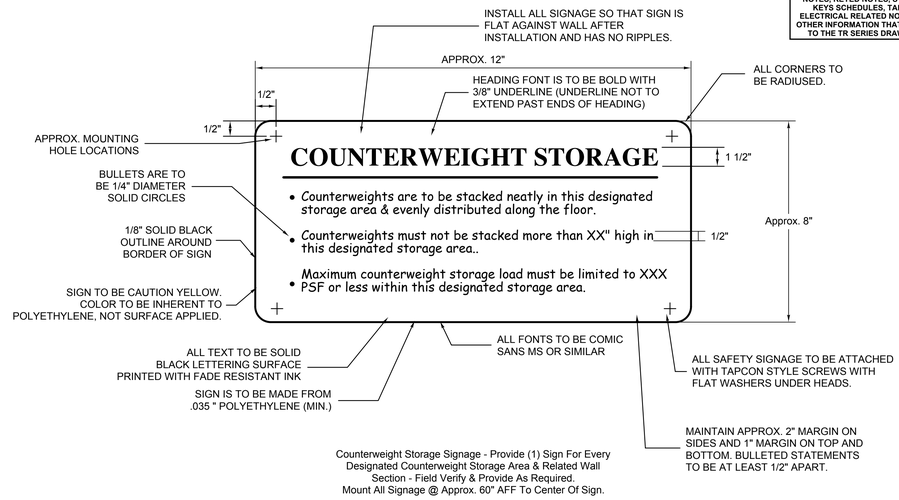
All weights noted above are in pounds.

Total set capacity is understood to refer to the maximum engineered design load for each set.

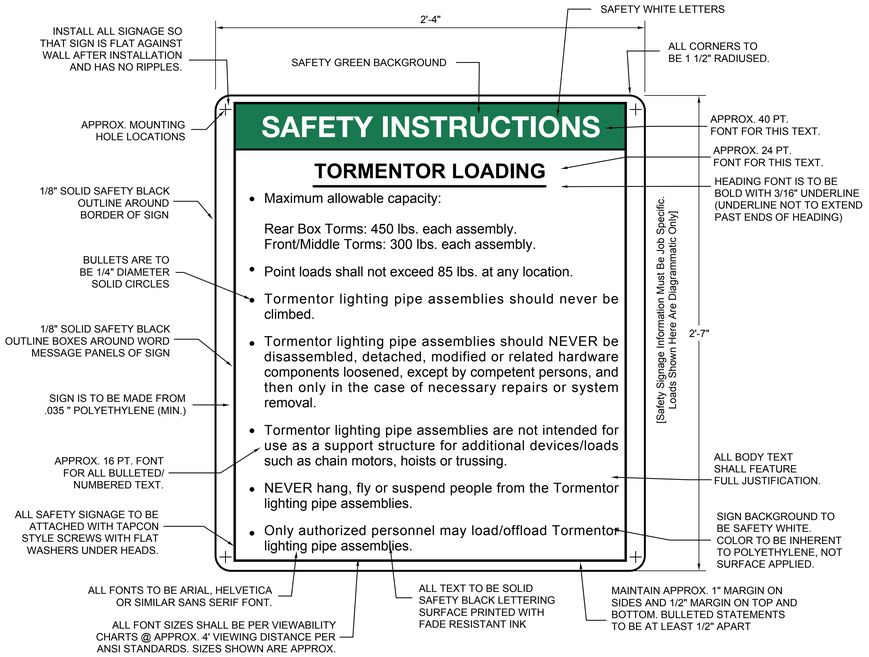
All set loading is to be evenly distributed along the length of the batten. It is the user's responsibility to ensure that all sets are loaded evenly, do not have large point loads and are never overloaded.

Static set weight refers to the total weight of the set pipe batten & mounting hardware as well as any related tracks, brackets, connector strips, etc. that are not typically removed and/or that have other encumberances making removal unlikely. This weight is considered to be permanent. Weights that are not counted in the static set weight column are things such as curtains, scenery pieces, fixtures, portable cabling, projection screen, mics, speakers, etc.

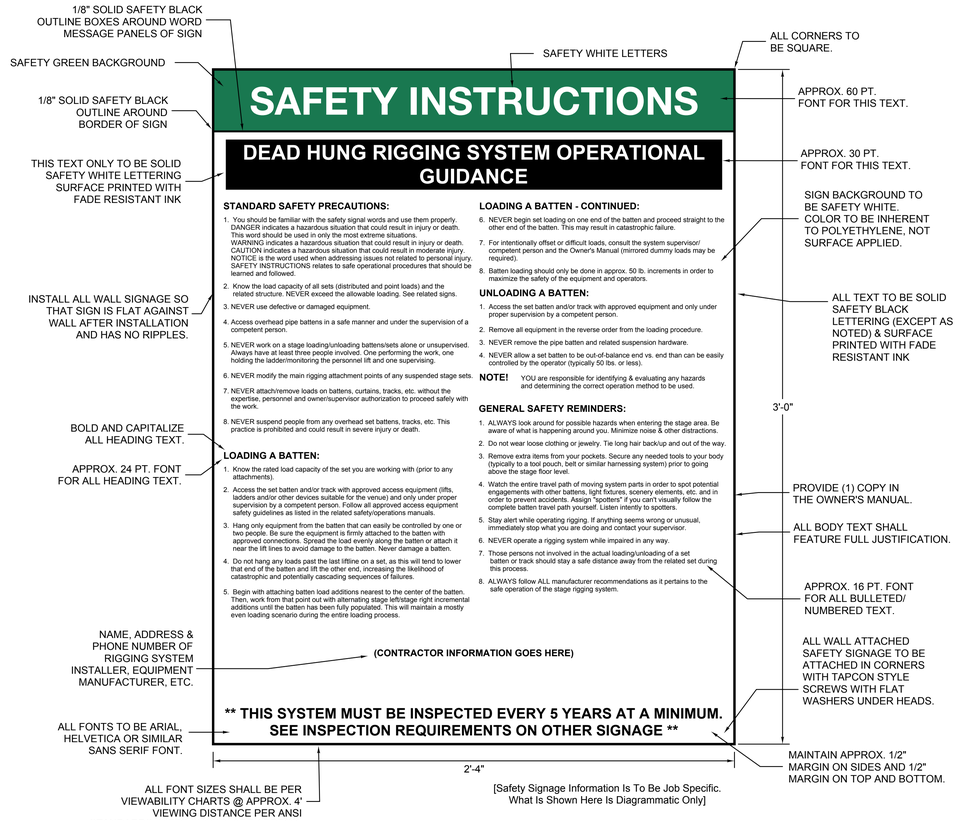
1 SAMPLE SET CAPACITY CHART SIGNAGE
SCALE: NONE



2 SAMPLE COUNTERWEIGHT STORAGE SAFETY SIGNAGE
SCALE: NONE



3 SAMPLE TORMENTOR SAFETY SIGNAGE
SCALE: NONE



4 SAMPLE STANDARD OPERATIONAL SIGNAGE
SCALE: NONE

REFER TO THE TR4.1 SERIES DRAWINGS FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, KEYED NOTES, SYMBOLS KEYS SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.

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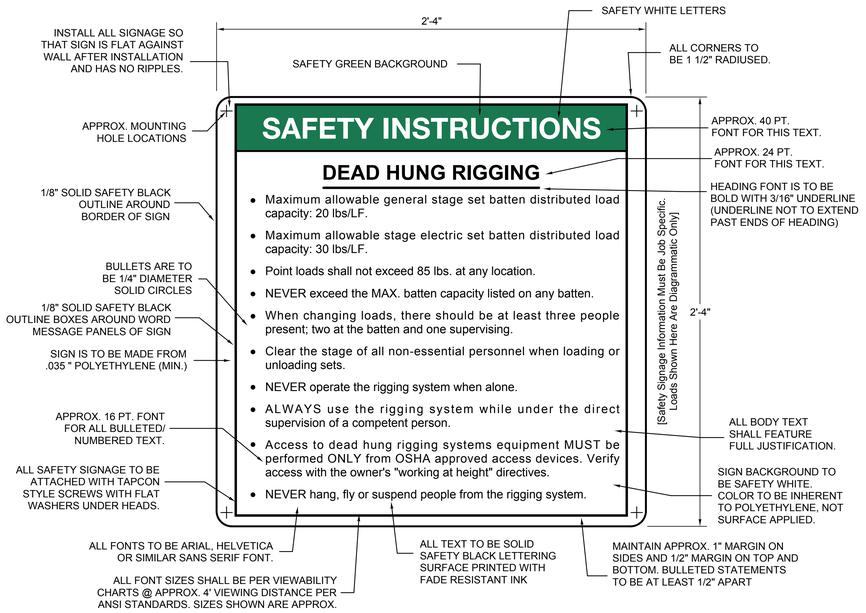
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BR-TR3.13

PROJECT NO: 2012-254

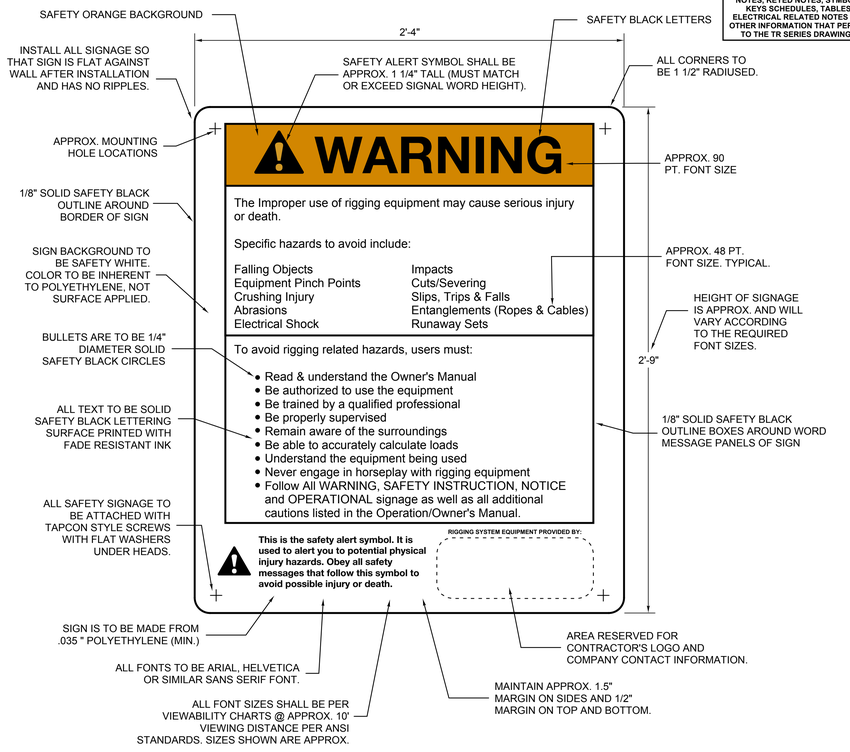
SIGNAGE NOTES:

See Other Rigging Signage Detail Sheets For More Info On Related Requirements.

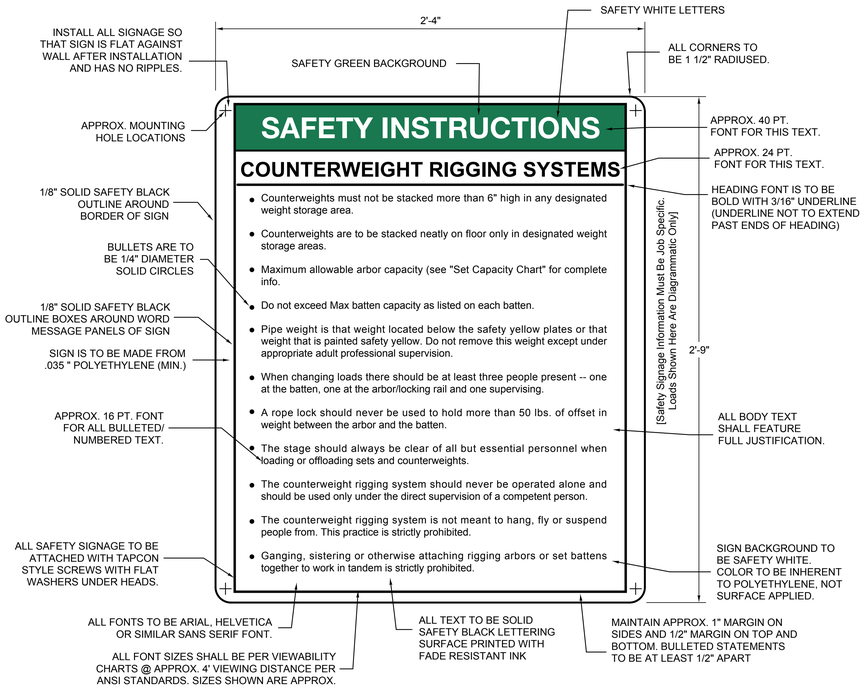


1 SAMPLE DEAD HUNG RIGGING SAFETY SIGNAGE
SCALE: NONE

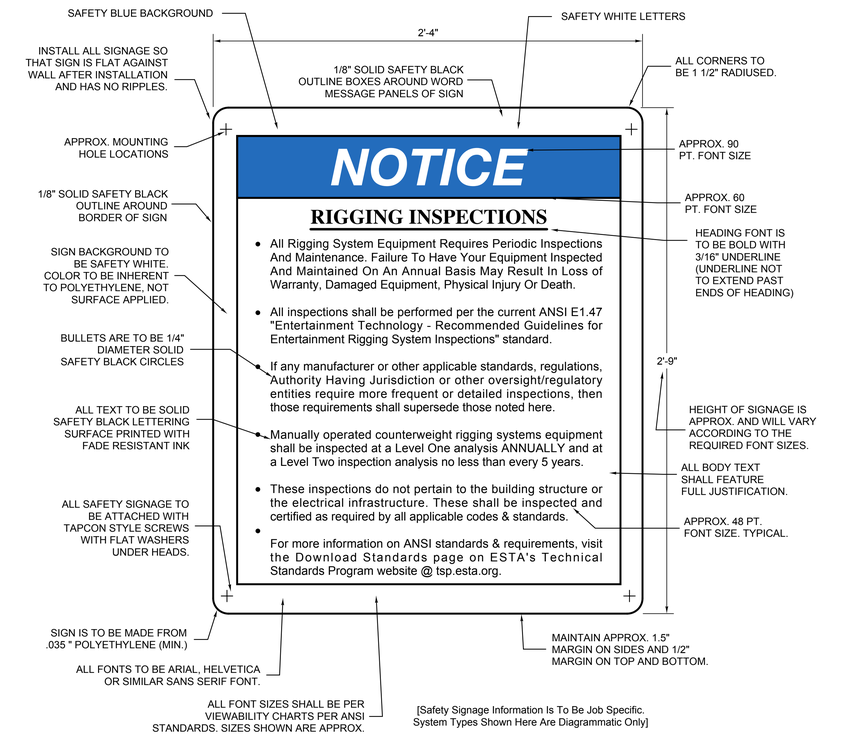
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2 SAMPLE GENERAL WARNING SAFETY SIGNAGE
SCALE: NONE



3 SAMPLE COUNTERWEIGHT RIGGING SAFETY SIGNAGE
SCALE: NONE



4 SAMPLE RIGGING INSPECTIONS SIGNAGE
SCALE: NONE

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ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-9-034-028

BR-TR3.14

PROJECT NO: 2012-254

STAGE RIGGING CURTAIN SCHEDULE:

Curtain Name	Width	Height	Notes	Fullness	Material Type
Main Valance	As Indicated	As Indicated		75%	KM Fabrics 24/25 oz IFR KM Charisma/FK Epic With No Lining
Main Traveler	As Indicated	As Indicated	Bi-Parting: Total Width - Does Not Include Required Overlap	75%	KM Fabrics 24/25 oz IFR KM Charisma/FK Epic With No Lining
All Border Curtains	As Indicated	As Indicated		50%	KM Fabrics 24/25 oz IFR KM Charisma/FK Epic With No Lining
All Other Travelers	As Indicated	As Indicated	Bi-Parting: Total Width - Does Not Include Required Overlap	50%	KM Fabrics 24/25 oz IFR KM Charisma/FK Epic With No Lining
Cyclorama -Typical Of (1) Curtain	As Indicated	As Indicated	Provide With Pipe Pocket And Pipe, Grommets & Tie Offs (No Seams). Pipe For Pipe Pocket Shall Be In 10' Long Sections With Appropriate Couplers. Pipe Shall Be 1" Heavy Walled EMT Style Conduit. No Burrs Shall Be Allowed On Pipe Or Couplers. Do Not Adhere Couplers.	0%	Fred Krieger Bleached White IFR Poly Muslin - Seamless Not Intended To Be Painted. No Seams, Either Horizontal Or Vertical, Shall Be Allowed. Intended As Backdrop Or To Project Images Onto. Provide West Coast Bags As Indicated Below.
Sharksooth Scrim -Typical Of (1) Curtain (Scrim Color TBD By Owner)	As Indicated	As Indicated	Provide With Canvas Lined Pipe Pocket And Pipe, Grommets & Tie Offs (No Seams). Pipe For Pipe Pocket Shall Be In 10' Long Sections With Appropriate Couplers. Pipe Shall Be 1" Heavy Walled EMT Style Conduit. No Burrs Shall Be Allowed On Pipe Or Couplers. Do Not Adhere Couplers.	0%	Black IFR 100% Polyester Sharksooth Scrim - Seamless White IFR 100% Polyester Sharksooth Scrim - Seamless No Seams, Either Horizontal Or Vertical, Shall Be Allowed. Provide West Coast Bags As Indicated.
Fabric Strap Tie-Backs	As Indicated	As Indicated	Flat Fabric Tie-Back Straps Shall Be Utilized To Tie Curtains Back And/Or To Gather Them Out Of The Way For Certain Events, Etc.	0%	KM Fabrics 24/25 oz IFR KM Charisma/FK Epic. Tie-Back Straps Shall Match Curtain Color (I.E., Straps For Stage Blacks Shall Be Black, Straps For Main Traveler Shall Match Traveler Material Color, Etc.)
All Walk-Along Side Masking Leg Panels	As Indicated	As Indicated	Provide Curtains In Individual Panels That Are Able To Be "Ganged" Together In Various Configurations In Order To Mask Different Areas As Needed Or So That Entire Bank Of Panels Can Be Attached To Form One Continuous Traveler Curtain. Provide Each Curtain Panel With 3" Strips Of Color Matched (As Closely As Possible), 1" Wide Velcro Every 12" OC Down The Edge. Panels Shall Feature "Loop" Velcro Down The Front On One Side & "Hook" Velcro Down The Back On The Other Side. Locate Velcro Closures Only On First 8' Of Curtain AFF.	25%	KM Fabrics 24/25 oz IFR KM Charisma/FK Epic With No Lining

NOTE: *Refer To Rigging Specifications For More Information Regarding Specific Curtain Types, Colors, Fabrication & Other Requirements.*

General:

"As Indicated" Intents Are That All New Curtains Be Sized Per The Plan & Section View Drawings Shown, Unless There Are Physical Constraints With The New System Which Include Trim Height Sizing. If Physical Sizing Constraints Are Present Which Do Impact The Intended Curtain Sizing, Then Contact The Consultant In Order To Obtain Revised Sizing Requirements.

IFR Indicates That Curtain Material Is Inherently & Permanently Flame Retardant & Never Needs Flame Treatment For The Life Of The Fabric. Flame Retardant Will Not Wash Out Unless Treated With Additional Flame Retardant Chemicals.

Oz Weights Given Are Per Yard And Are Approximate. See Manufacturer's Specs For Exact Weight Per Yard.

Specialty Curtains (Scrim, Cyc, Etc.):

Provide A Separate West Coast Bag For Each Specialty Curtain For All Stages That Do Not Have Full Fly Height Or Where These Sets Are Dead Hung (I.E. Stages Where The Curtains Cannot Be Flown Out Above The Proscenium Opening). For Stages With Full Fly Height, West Coast Bags Shall Not Be Required. West Coast Bag Shall Be Similar In Color To Associated Curtain. Provide With Bag Tie-Offs For Battens & For Closure.

Provide A Separate West Coast Bag For Each Specialty Curtain (Including The ETR White Scrim). West Coast Bag Shall Be Similar In Color To Associated Curtain. Provide With Bag Tie-offs For Batten & For Closure.

Install All Pipe Pocket Pipes & Chains. Instruct The Owner On The Proper Techniques For The Insertion & Removal Of The Weighting Pipes Into The Scrim & Cyclorama Pipe Pockets Without Damaging Or Tearing The Curtains.

Locations Of Specialty Curtains TBD By Owner & Used Where Needed. Some Shown In Specific Locations On Drawings To Note Intent That All Specialty Curtains Must Be Hung By The Contractor For The Owner's Use.

Provide All Specialty Curtains With Pipe & Pipe Pocket As Indicated (Double Heavy-Duty Chain & Pocket For Any On Single/Dual Scenery Tracks - Those Intended To Be Compressed/Gathered To One Side When Not In Use).

Provide All Dead Hung Specialty Curtains With Tie Lines (Black For Darker Materials & White For Lighter Materials) For Every 6" Of Curtain Width Along With Standard Grommets, Etc.

Provide All Tracked Specialty Curtains Standard Grommets For Every 6" Of Curtain Width Along With, Jack Chains, Etc.

Both Ends Of Specialty Curtain Pipe Pockets Are To Be Open (Not Sewn Closed) With Snap Closures Installed (To Aid In Removal Of Pipe When In Up/Stored Position). Pipe Shall Be Stored At Base Of Rear Stage Wall (Or As Determined By Owner) When Curtains Are In The Stored Position & Not In Use.

Miscellaneous:

All Uninstalled Drapes Shall Be Neatly Folded, Bagged, Sealed, Labeled And Stored As Instructed By The Owner (Use Curtain Hampers If Provided).

All Installed Curtains Must Be Hung Long Enough For All Wrinkles, Folds & Creases From Storage & Shipment To Have Been Removed (Use Bottom Pipe Weight, Stretchers, Etc. To Assist As Needed). Final Curtain Presentation, Upon Acceptance Testing & Room Turnover To The Owner, Shall Be Smooth, Flat Curtains. No Curtains Displaying Wrinkles, Folds & Creases Or Other Such Anomalies Shall Be Allowed For Acceptance.

Regardless Of The Overall Width Of Bi-Parting Style Curtains Shown On The Drawings, Provide Each Panel In A Bi-Parting Curtain In A Width That Is 1/2 Of Total Width Shown Plus 12" (Additional Width, When Coupled With Other Panel Shall Result In 24" Bypass At Center Stage). No Bi-Parting Curtains Shall Be Allowed That Do Not Display This Overlap. Overlap Cannot Be Obtained By Tracking Curtains In From Track Ends, Overly Stretching Curtains, Deducting From Indicated Fullness Or Other Means.

All Curtains & Related Tracks Shall Be Mounted So That They Are Centered With The Proscenium Opening. Unless Specific, Detailed Instructions Are Shown Requiring Alternate Mountings Relative To The Proscenium Opening. This Does Not Apply To Leg Curtain Track Ends. These Should Be Mounted So That Track Is Flush With The End Of The Related Batten.

The Bottom Edge Of All Installed Curtains Must Be Level & Flat Relative To The Stage Floor. No Curtains Shall Be Allowed That Feature A Hump, Angle, Wave Or Other Non-Parallel & Non-Level Installations.

Provide Flat Fabric Tie Back Straps For Use As Tie-Ups For All Side Masking Legs & Traveler Curtains. See Details For Complete Info.

All New Curtains Shall Be IFR Unless They Are Specifically Called Out On These Drawings Or In The Written Specifications As Being Other (This Would Include Select Specialty Curtains That Cannot Be Obtained In An IFR "Version" Such As Some Muslin Cycloramas, Painter's Drops, Etc.)

WARNING! - Notify The Owner In Writing And During Trainings (To The Highest Level Possible) That Any Future Chemical Treatments Of IFR Curtains (Such As The Application Of Misc. Fire Retardant Or Equal) Will Negate Those Very IFR Properties In The Fabric, Thus Potentially Rendering Them Able To Burn And In Violation Of NFPA Standards. Notify The Owner That, If Such Chemical Treatments Are Applied To IFR Curtains The Manufacturer Cannot Stand Behind The Material.

THEATRICAL RIGGING SYSTEM KEYED NOTES:

Each note and detail indicator indicates a typical location for the type of work to be performed or equipment to be provided. The referenced contractor shall provide for all instances of typical work indicated. All drawing notes may not appear or be referenced on each drawing, however, all notes shall apply to the work, level and within each note and all similar instances of typical work shall be performed by the referenced contractor(s). All work shall conform to all applicable codes, construction schedules and standards as well as this project's architectural & structural standards.

PROFESSIONAL STANDARDS:

The contractor is expected to install all work to the appropriate industry professional standards, manufacturer recommendations and current applicable codes. If any work required exceeds the skills of the contractor, then he shall employ appropriate subcontractors for the scope required.

The acceptability of materials and workmanship shall be determined by the Architect, Consultant and CM.

Any work that might be damaged, inadvertently painted or become dirty during construction will be protected by the contractor. All responsibility for protection shall be by the contractor. The contractor shall provide final cleaning and or repair of all equipment in their scope to like new condition.

The contractor shall attend and/or arrange meetings as required to ensure their scope is coordinated with all other trades. The contractor is responsible to make known to all other trades critically dimensioned items and locations to avoid conflicts. Where conflicts occur, follow required procedures in the project manual to seek resolution.

Where any substandard work is provided by related trades that impedes the work of the contractor, he shall notify the CM, Consultant, Architect or Engineer in writing as called for in the project manual to rectify the issue.

Where work is provided by others, the contractor is responsible to verify installation conditions that relate to his work. If installation of related work is substandard, then the contractor shall generate a written RFI through proper channels based upon the project manual. The contractor shall not install his work to any substandard devices, etc. provided by others until such work has been resolved or until the contractor in order to provide appropriate pickup points from the construction manager's consultant. If the contractor ignores substandard installation work by others and proceeds to install his devices to these items, then he accepts and bears sole responsibility to repair, reinstall and correct any found deficiencies to the satisfaction of the owner upon final inspections.

The contractor is expected to possess knowledge of the equipment of his industry and provide all required small items required to install the specified equipment. Provide all small items such as misc. JB's, connectors, power supplies, crimps, nicopress and other items that may not be specifically called out on the drawings or in the specs but are required to support primary equipment.

When in doubt about any aspect of the work, the contractor should not proceed until he obtains clarification from the appropriate entity with authority following procedures detailed in the project manual.

All painting shall be performed in a professional manner. This includes utilizing proper priming and finish coating techniques as required and the proper masking of adjacent areas.

Paint shall be spray applied where possible before suspension and shall be multi-coat and neat. no drips, runs, mottled finishes, etc. shall be allowed.

Any time the contractor is working in the attic space above a ceiling (plaster, gyp, grid, wood, etc.), he is responsible to follow all OSHA protocols and to provide all temporary planking, plywood, walking/work platforms, misc. tie-offs, sit harnesses or any other means required to ensure a safe working environment inside this attic space and in order to access the fixtures, JB's and all other locations/devices that he must access or install or conduit that he must run.

The contractor must be ETCP certified (either individually or through a company sponsored program). See specs for more details.

THEATRICAL SCOPE NOTES FOR THE THEATRICAL RIGGING SYSTEM:

GENERAL:

All counterweight & dead hung rigging systems equipment to be Thern, SSRC, ADC or equal. All system miscellaneous hardware such as shackles, bolts and other hardware to be of domestic manufacture and stamped with the working load limit. The working load limit shall incorporate a safety factor of at least 10:1. See written specifications and detail drawings for additional rigging standards and requirements. Minimum size of misc. hardware to be 1/4" (this includes wire rope assemblies). Provide larger sizes as required in order to maintain indicated load ratings and safety margins.

All rigging system equipment and all misc. hardware shall be brand new (never been used before) and specifically configured for use on this project.

All rigging system equipment and all misc. hardware used on this project must be properly primed and finish painted. No rusty metal parts, mill/shiny/silver finishes or related hardware shall be allowed. All rigging hardware is intended to be painted flat black unless otherwise indicated (paint similar to adjacent or as directed by architect for all aesthetically critical items).

Wherever strut type channel is used and is visible either on stage or in audience/ceiling areas, the channel and all related clamps/accessories must be painted flat black (including the interior of the channel, etc.). Painting must be complete and professional (no drips, runs, missed areas, etc.). Strut channel must be Unistrut Perma Green III or equal base finish.

Wherever strut type channel is used, spring loaded channel nuts are required. Flat plate fitting used must be square and cover channel completely (round or undersized are not acceptable; keyed are preferable).

For all system blocks & related liftlines, etc. the contractor must field verify that they all properly clear all existing obstructions, etc. and can be installed per design intents. If conflicts are found, then it is up to the contractor to relocate devices incrementally in order to allow the liftlines to pass in a manner that does not allow wire rope engagements or conflicts with other equipment.

For all system blocks, the manufacturer must verify that all liftlines, etc. properly clear all attachment, assembly & keeper bolts, etc. associated with each block. If conflicts are found, then it is up to the manufacturer to relocate those bolts in order to allow the liftlines to pass through each block in a manner that does not allow wire rope/bolt engagements.

All rigging system equipment and all misc. hardware indicated on these drawings shall be mounted to the beams and overhead steel as is visually depicted. The intent is for all headblocks, lofblocks, beam clamps, suspension assemblies, etc. to be mounted to overhead beams/trusses. Attachment points are indicated through visual representations on these drawings and the building's structural beams are the intended recipients of these rigging system suspension hardware assemblies (unless alternate attachment methods have been designed and clearly indicated on the contract documents). The contractor shall not be allowed to field select other rigging attachment points, misc. spanning steel, alternate locations, etc. not depicted on the contract documents, and from which to suspend the rigging system equipment, unless prior written authorization has been specifically granted, verified by the project structural engineer and clearly communicated to all design team members and related contractors.

All suspension hardware, liftlines, supports lines, etc. shall be installed plumb (understood to be perpendicular in the vertical plane relative to earth level) from their overhead attachment points to their batten (or other) terminations points, unless they are bridles or are otherwise specifically shown on the contract documents as being installed at angles.

All misc. hardware used on this project shall feature load rating markings (if applicable). All hardware shall be Grade 5 minimum (higher if specifically called out).

All locking rail floor blocks shall be provided with UHMW shoes. No rubber or other style shoes shall be allowed.

Locking rails shall be attached to stage floor with load rated hardware as indicated. All attachment methods and hardware must be approved by the project structural engineer prior to installation. Locking rail shall be punched on centers as needed for set layout (including custom punches if required). Locking rail stanchions shall not be installed in the same locations and using the same floor mounting holes as existing. All new attachment locations must clear existing holes by a minimum of 12".

All wire rope shall be of a tested load rated variety, either domestic or imported. Load test information must be provided for all wire rope utilized in this system.

At any locations where nicopress oval sleeves have been provided and crimped but are in inaccessible locations where field inspections are not possible from the floor, platform or other area, the contractor shall provide written authentication and digital photos of these properly crimped swages (to the manufacturer's recommended tolerances in order to realize full load capacity) and shall provide copies of these verifications to the consultant, architect and owner.

All headblocks, which are mounted to a single piece of steel, must be fillet welded in place upon completion of installation as per manufacturer's instructions. See additional notes for more complete information. Fillet welds must be on both sides of every headblock - coordinate welding during installation. Welds shall be as specified by the manufacturer.

All multiline loftblocks, which are mounted to a single piece of steel, must be fillet welded in place upon completion of installation as per manufacturer's instructions. See additional notes for more complete information. Fillet welds must be on both sides of every multiline loftblock - coordinate welding during installation. Welds shall be as specified by the manufacturer.

LOADING INFORMATION:

All loading information shown below is approx. All lbs/LF loading is understood to be evenly distributed along the entire length of the related batten. All loading noted below indicates the design intent loading.

Stage pipes (other than as indicated otherwise - set pipe battens such as traveler/border curtains, scenery sets, etc.) shall be rated for an approx. 20 lbs/LF live load plus the self-weight of the related suspension, batten and hardware. Point loads not to exceed 100 lbs.

Stage electric pipes shall be rated for an approx. 30 lbs/LF live load plus the self-weight of the related suspension, batten and hardware. Point loads not to exceed 100 lbs.

Rear box tormentor pipe assemblies shall be rated for 450 lbs. live load plus the self-weight of the related suspension, torm pipe, wall flanges and hardware. Point loads not to exceed 100 lbs.

Front/Middle single tormentor pipe assemblies shall be rated for 300 lbs. live load plus the self-weight of the related suspension, torm pipe, wall flanges and hardware. Point loads not to exceed 100 lbs.

Single purchase counterweight system shall be based upon front loading arbors and shall be rated at 874 lbs per 4' counterweight set & at 1,400 lbs per 6' counterweight set (with 6" Thern suitcase style counterweights and Thern Brickhouse Arbors). All headblocks shall be sized at a working load limit for the maximum potential capacity of the largest arbors with the largest steel weights available, which shall be a minimum of 1,400 lbs per 6' counterweight set including the self-weight of the arbor (see also requirements under headblocks section). All lofblocks are to be sized at a working load limit for the maximum potential liftline capacity per liftline drop (based upon standard beam calculations), which will be approx. 400 lbs. All miscellaneous hardware shall be sized at a working load limit for maximum potential capacity at its particular location.

Arbor/Operating line details are to be as follows:

All Curtain Sets:	Blue Operating Lines	4' Brickhouse Arbor
All Electric Sets:	Red Operating Lines	6' Brickhouse Arbor
All Scenery & Other (Scrim, Cyc, Etc.) Sets:	White Operating Lines	4' Brickhouse Arbor
Projection Screen Set:	Black Operating Lines	4' Brickhouse Arbor

*All Brickhouse arbors shall be wire guide versions.

RIGGING SYSTEM EQUIPMENT:

1. Provide single purchase Wire-Guide Thern Stage Equipment "Brickhouse" front-loading arbors with UHMW shoes, operating lines, tension floor blocks, Brickhouse rope locks, locking rail with stanchions, wire guide system and all misc. hardware to complete a working counterweight rigging system. Label the sides & top label tag of each Thern Brickhouse arbor with matching set numbers in white-on-black or safety yellow. Match set numbers, colors & sizes with those on the rear of the index lighting system. Provide locking rail and guide system for full depth/height of stage and in order to achieve maximum arbor travel, unless noted otherwise. This system necessitates a 12" set-to-set spacing minimum.
2. Provide the appropriate and structural engineer approved devices, installation procedures, hardware, etc. for all anchorages and all structural slab/wall attachments. This includes, but is not limited to, anchor types, anchor sizes, embedment depths, drilling techniques, epoxy screen usage, manufacturer of anchorage hardware, misc. support steel, wall flanges, misc. Unistrut assemblies, etc. Any anchorage installed by the contractor must be first approved by the project structural engineer/EOR in writing. Failure to do so will result in the contractor redoing all installations and providing additional anchorage as called for by the structural engineer.
3. Provide Thern Stage Equipment FB12 or equal series 12" nylatron diameter nylatron floor tension blocks for wire guided systems. All floor tension blocks shall be sealed precision ball bearing type.
4. Provide Thern Stage Equipment Wire Guide System and arbor stop angles (as well as all other required hardware, Unistrut, braces, horizontals, etc.). System must be installed perfectly plumb and level and with perfectly even spacing between guides wires for their entire length. All system components shall all be black and shall be attached to the building structure (wall) with load rated anchors at manufacturer specified centers. See other drawing notes for hardwood arbor bumper requirements.
5. Lower Arbor Stops: Provide continuous lower arbor stop assemblies attached directly to the locking rail structure. Lower arbor stops shall be continuous 2" x 2" hardwood bumper and grade 5 hardware throughout on top of the locking rail & shall be sized/length to match length of the. Bolt through manufacturer furnished locking rail channel(s) as needed with carriage style bolts and locate all attachment bolts so that they do not conflict with arbor locations. Everything shall be painted flat black (steel) or stained black (hardwood bumper). Attach hardwood bumper system with carriage bolts.

   Upper Arbor Stops: Provide continuous upper arbor stop assemblies attached directly to the overhead structure. Upper arbor stops shall be Unistrut & custom beam clamp assemblies constructed of minimum 7 gauge steel stop legs and with a continuous 2" x 2" hardwood bumper and grade 5 hardware throughout. Everything shall be painted flat black (steel) or stained black (hardwood bumper). Attach hardwood bumper system with carriage bolts.
6. Provide all operating lines, tension floor pulleys, liftlines, beam clamps, trim chains, pipe battens, Unistrut channel and misc. hardware to complete a working hybrid counterweight/dead-hung rigging system. Provide all items and devices needed, whether or not they appear in the notes below, that are required in order to complete the installation of the indicated devices (both new and reinstalled items). Provide misc. factory manufactured splices.
7. Provide SSRC model # LED-IRL-XX (provide lengths as indicated/required for each locking rail section) LED based index lighting systems mounted new outriggers, brackets and/or suspended battens. Provide the outriggers, brackets and battens and install the index lighting system to them as indicated/required. Aim the index lights as instructed by the owner (towards the actors and set purchase lines). Provide set numbers in color and size as indicated and mount to the rear side of the index lighting system reflector (towards center stage). Match number layout with the final set spacing (note all sets - counterweight, dead-hung and motorized). Coordinate installation of the index lighting system with the provision of power & related wiring. Provide the SSRC dimmer control box and locate per the owner's instructions and at standard switch height AFF. Mount the index lighting mounting yoke for the outrigger system @ approx. 9' - 0" AFF. Provide sections of fixtures as required to meet the indicated overall system length. Do not locate the dimmer control box behind the locking rail or anywhere where accessing controls would be difficult or dangerous. VIF exact desired location with the owner prior to rough-in.
8. *HEADBLOCKS:*

   Provide Thern HB series 12" diameter nylatron GSM underhung single purchase multiline headblocks with center handline groove and common sheave. Provide multiline headblocks for all sets with the correct number of cable grooves per the plan view drawings and loft steel count. All headblocks shall be stacked roller bearing type. All headblocks shall be load rated for 3,000 lbs. Weld all headblocks mounted to a single piece of steel in place after final alignments, unless not required by PE or manufacturer with documentation.

   Provide all headblocks with a Thern clip angle mounting system to overhead steel as required per maximum potential imposed loads. Required attachment is with clip angles (toe clips not allowed). Obtain manufacturer and engineer approval for mounting device thickness, attachment method, ratings, load capacity, etc. and provide as required.
9. *LOFTBLOCKS:*

   First loft beam position: Provide Thern Stage Equipment HB8T series universal style mount 8" nylatron GSM multiline headblocks (unless otherwise noted) with common sheave and no center groove. Sheaves shall be manufactured for use with 1/4" wire rope. Provide multiline headblocks for all sets with the correct number of cable grooves per the plan view drawings and loft steel count. All multiline headblocks to have tapered roller bearings. All first loft position multiline headblocks shall be load rated for 3,000 lbs. Weld in place after final alignments, unless not required by PE or manufacturer with documentation.

   All remaining loft beam positions: Provide Thern Stage Equipment LB8-F series 8" nylatron GSM throat cut loftblocks with single sheave plus idlers (unless otherwise noted). Sheaves shall be manufactured for use with 1/4" wire rope. All loftblocks to have sealed precision ball bearings. All loftblocks shall be load rated for 875 lbs.
10. Provide all loftblocks & headblocks @ all positions with a Thern loft block clip kit system to overhead steel as required per maximum potential imposed loads. Obtain manufacturer's and engineer approval for mounting device thickness, attachment method, ratings, load capacity, etc. and provide as required.
11. Provide custom fabricated sag/slap bars assemblies with UHMW wear plates on top/bottom of 2" x 2" hardwood between contractor provided Unistrut supports, bracketing and supplementary steel for all pipe positions as needed in order to keep lift lines from sets from slapping against or abrading any ETR steel, drains, conduits, misc. steel, etc. See drawing details for more info on sag/slap bar intents. Provide these assemblies wherever needed. VIF.
12. Provide SSRC CCP Series style cable clamp(s) & Kellums grip style cable supports on battens for cable pickup of all electric & control cable, DMX wiring, projection screen control cabling and mic cable drops cables for installation. VIF and coordinate locations, requirements & installation with related trades and devices as required. Cable clamps shall be installed to the lower pipe batten and Kellums grips to upper batten. Provide (1) SSRC style cable clamp for every 4' of SO cable as measured from the device terminations end of the wiring to the end of the related pipe batten. Do not over-tighten cable clamp(s) to the point of damaging or denting the SO cable. Install as per manufacturer's instructions. Provide SSRC cable clamp style to match quantity and size of SO cables (CCP1, CCP2, CCP3, Flat, Mini, Etc. - see details for more clamp info.) No SO cables shall be allowed to pull against clamp bolts or bolt ends. Provide McMaster Carr or equal black, round vinyl end caps on all exposed bolt ends.
13. Provide miscellaneous metal, plate steel adapters and/or Unistrut support members complete with Unistrut channel assemblies, wall flanges, welded verticals & bracing, misc. beam clamps, load rated anchorages and all necessary accessories to provide appropriate pickup points for all rigging equipment where beams do not exist and/or to mount devices where indicated. Mount at elevation(s) as indicated on TR series drawings. Entire Unistrut assemblies and all suspension hardware are to be painted by the contractor only as indicated or as directed by architect/owner and to match adjacent or mounted to surfaces. Miscellaneous metal and Unistrut assemblies must be rigidly attached to existing overhead structural steel and be rated for a 10:1 safety factor for the loads imposed.
14. *WIRE ROPE LIFT/SUPPORT LINES & SAFETY CABLES:*

    Provide 1/4" 7x19 galvanized lift lines. All closures shall be copper nicopress. Thimbles shall be used at all terminations. All nicopress oval sleeves shall be crimped with the proper dies properly inserted into an appropriate and properly calibrated swaging tool and shall be crimped to the manufacturer's recommended tolerances in order to realize full load capacity.
15. Provide a complete custom fabricated locking rail screen railing system, etc. as well as all required drilling, hardware, misc. hardware, fire rated plywood, steel tube, painting, Kruffi padding, etc. as required. This system shall be used to block off the rear side of the onstage locking rail. See details for required fabrication, intended loading parameters, etc. System shall include, but not be limited to, 3/4" fire rated plywood, painted with black intumescent paint, misc. vertical and horizontal tube steel/Unistrut framing system, load rated anchors as well as installation labor, etc. to erect this supplemental structure. Entire system shall be painted flat black.
16. *BATTENS:*

    Provide 1.5" (1.9" OD) Schedule 40 black iron pipe battens (painted flat black) with industry standard 18" batten splices & grade 5 minimum hardware (no threaded ends or couplers allowed). Batten splices shall be precisely drilled so that any batten on any set could be interchanged with that of any other set. Adjust battens on trim chains to hang true, level and plumb to upstage-downstage orientation and the stage floor. Provide safety yellow vinyl plastic ends caps on both ends of all battens (except FOH shall have black caps). Electric and projection screen sets shall be pipe-over-pipe style with brackets every 5' plus one on each end. See TR detail drawings for more information.

    All battens must be installed perfectly level with each other in both the upstage-downstage and side-to-side orientations +/- 1/4".

    Provide trim chains for all battens except stage electrics or as noted otherwise. Stage electric battens shall be suspended from turnbuckle assemblies as indicated (with safety cable bypasses @ each lift line location).

    Provide batten labels (label, heat shrink, etc.) and batten markings for all battens. See detail drawings for all label types, instances, locations, etc. that are required.
17. Provide custom ETC centering & SSRC stiffener strap style brackets (if not provided by others) in types and quantities as indicated on TR series drawings and/or as required for system installation. Provide customized brackets as required. Provide stiffener brackets for all locations where connector strips are not present and at projection screen suspension assembly locations as indicated (do not provide "empty" connector strip brackets in locations where connector strips do not occur). All pipe-over-pipe stage electrics or projection screen sets shall be mounted directly from lift lines via Nicopress closure & thimble to load rated turnbuckle to full brackets (effectively transferring bottom pipe/pipe-over-pipe stage electric/projection screen ladder system loads directly to lift lines). Provide manufacturer brackets for all term box locations where required. Where standard manufacturer brackets will not work, provide custom SSRC brackets to match required brackets with additional holes, etc. as needed. No contractor manufactured, non load-rated brackets shall be allowed. All brackets must feature and utilize a top lifting hole for all liftline attachments. Systems where a batten clamp for overhead liftline connection is placed beside the connector strip bracket shall not be allowed.
18. Provide H&H Specialties model #680 full batten clamp assembly for all indicated batten suspension locations with Grade 5 hex head bolts, lock washers and a load rated shackle. Tighten batten clamp tight enough to prevent it from "walking" along pipe batten or sliding under load.
19. Provide Peerless Industrial Group black, 7mm, Grade 63 hardened alloy trim chains with nicopress closures on lift lines (nicopress through one end of chain & shackle). Provide trim chain wraps, after final adjustments, with hex head Grade 5 safety bolt, flat washers & hex head nyloc nut. See details for more info and exact intended design. Contractor painted chain shall not be allowed.
20. The locking rail shall be bolted into the ETR stage floor with epoxy style anchors. Coordinate with the floor and concrete slab system and do not reuse any existing attachment locations (clear all ETR holes by 12" minimum). VIF. Anchor type, style, embedment depth, torque rating, etc. shall be as determined by the TC's engineer. Provide all hardware, drilling, installation labor, etc. to attach each locking rail securely to the stage floor.
21. Replace all existing angle iron spanners, threaded rod drops, misc. hardware & C-clamps supporting the catwalk pipe battens. Replace angle iron with Unistrut supports and new, 3/8" threaded rod drops and all required beam clamps, misc. hardware, batten clamps, etc. required to resupport the ETR catwalk pipe battens similar to existing. VIF & adjust installation location of all catwalk pipe battens to allow for the proper angle to the stage and to clear all ceiling openings & misc. obstructions (as close as is possible).
22. *CURTAIN TRACKS:*

    Traveler Curtains: Provide ADC Silent Steel 380 series curtain tracks on all traveler sets. Provide all bi-parting curtain tracks with a 24" bypass at center stage with dual track hangers at that location. Provide all required corners, live end and dead end pulleys, operating lines, and hardware.

    Side Tracked Masking Leg Curtains: Provide ADC Silent Steel 380 series curtain tracks. These will be straight run curtain tracks with walk-along style curtains. Provide Knuffi style padding along entire length of upper portions of tracks if stage systems SO or audio/video, etc. cabling swags down over tracks. Keep curtain jack chains very short on these tracks (less than 6"). Provide ADC seal angle brackets at each end of these tracks.

    General Track Info: Provide all curtain tracks as black powder coated steel tracks along with all black parts. Provide all support strut channel, pipe backbones and all misc. mounting hardware, brackets, carriers, pulleys, jack chains, bolts/nuts/washers, etc. in a flat black finish. No portions of the curtain tracks shall be allowed to feature shiny or metal colored/gray finishes.

    Provide flat black, removable floor tension pulleys for the curtain track operating lines. Install keyed plates in the floor as required (routed into flooring with top of plate flush with finished floor). Verify with the owner their preference on exact locations of the tension floor pulleys (on which side of the stage they should be located) and located these devices there - even if these locations differ from those shown on these drawings. Get final locations approval in writing. Non keyed plates shall not be allowed.

THEATRICAL RIGGING SYSTEM KEYED NOTES - CONTINUED:

23. *CURTAINS:*

    Provide curtains, straps and accessories as indicated on drawings, in specs and on schedules. All curtain colors are to be selected by the owner in writing prior to ordering or fabricating.

    Provide curtain tie back fabric straps to match provided curtains as indicated. See details sheets for more info. Provide in an Arriba style soft sided zip closure bag large enough to accommodate all straps. Turn over to the owner for their use with the side masking leg or other stage curtains. Instruct the owner on proper usage and on the dangers to the fabric of using other tie lines, cordage, etc. to tie curtains back or to bundle together. Bag to be similar to the Arriba AC-120 bag - sized to comfortably hold all straps.
24. Provide CR Daniels Dandux extra duty style canvas basket/truck laundry hampers (see details for exact quantities, size requirements, etc.). All carts shall feature heavy-duty zinc plated welded steel construction, stitched and reinforced vertical pipe support pockets, stitched double top/folded top edging with rust resistant brass grommets, reinforced push-pull handles on either end of the cart, casterboard (all casters shall be 3" heavy-duty swivel casters set on a rectangular frame with cross bracing), and a hinged wooden lid. Wooden lid shall be 5/8" MDF covered with a black, durable laminate or 5/8" A-A-faced, sanded smooth, void-free plywood with no sharp edges or splinters (coat all raw plywood surfaces with 2 coats of satin finish polyurethane). Lids shall feature rounded corners with corner plates. Lid hinges shall be rust resistant brass or galvanized, low profile, bolted completely through lid and welded to the frame. Color of cart canvas shall be determined by the owner. LAUNDRY HAMPERS MUST HAVE BLACK CANVAS SIDES & BLACK PLYWOOD TOP.
25. **SET BALANCING & SPARE COUNTERWEIGHTS:**

    Provide enough 6" suitcase style counterweights (with handle/grip slot-see details for more info-weights to match type/width as noted above) in order to balance all sets (and capable of fitting into Thern Brickhouse arbors). Coordinate set balancing with curtains, tracks, theatrical lighting fixtures, hanging mic boxes, connector strips, mics & other set related items. Sets to be balanced with full compliment of devices as directed by owner.

    Properly balance each set batten, especially "empty" sets such as scenery sets and "light" sets such as valance/border curtains in order to maintain a safe working environment for set operators. This will require the use of a combination of counterweights (both 1/2" and 1") in order to as accurately balance each set as is possible. Any set that must be "heavy" on one side must be left slightly arbor heavy.

    Provide enough counterweights to balance all sets (weights to match type/width as noted above). Coordinate set balancing with theatrical lighting fixtures, hanging mic boxes and mics & other set related items. Sets to be balanced with full compliment of fixtures, mics, connector strips, etc. as indicated and existing.

    Paint all "static" counterweights on each arbor that are required to maintain the balance of that set in its standard, normal and "unloaded" condition in a flat (no sheen) OSHA safety yellow color (normal or unloaded set condition would include batten, standard complement of required hardware, curtains & tracks, rotators, connector strips, SO cables, etc. related to each set-or bury them below the Thern yellow designating plate). Surface to be painted is the leading edge (short edge of weights facing operator standing at locking rail - do not paint the top or bottom surfaces of the counterweights). Clean all surfaces to be painted prior to paint application in order to remove any dirt, dust, grime, grease or related debris that would interfere with or adversely affect the adherence of the paint to the counterweight. Allow all surfaces of any painted weights to fully dry prior to incorporating into the system or stacking with any other weights. All weights shall be free of dust, debris and rust prior to installation.

    Provide spare suitcase style counterweights, after all sets are balanced with their standard and normal complement of related items (fixtures, curtains & tracks, connector strips, etc.), to bring the total spare weight capacity to approx. 2,000 lbs. (an equal number of 1/2" & 1" tall weights - all to be the standard of the set & batten indicated. Projection screen shall be centered on the indicated stage batten & in the proscenium opening. The intent is for the projection screen to be mounted on the pipe batten so that the image area of the screen itself is centered within the proscenium opening. Coordinate with related trades as needed (power/control wiring). Suspend this screen from a quantity of points as indicated on the projection screen installation detail (or four points as a minimum). Projection scree case must be suspended from pipe over pipe battens with stiffener brackets, etc. Refer to the TR series detail drawings for more information on screen & related details & provide all necessary hardware for the indicated suspension. Mount projection screen as depicted in details, including pipe-over-pipe suspension.
26. Provide all required signage as indicated. Signage shall include custom signage that states the maximum load of all sets/categories, standard safety & operational signage, user warnings signage, etc. All signage shall be mounted to the walls as indicated and at easily readable heights AFF and in areas designated on the detail drawings (do not mount signage where it will be obscured or hidden behind permanent obstructions - curtains, doors, racks, J-guide system, etc.). Custom signage must be provided for all major areas such as counterweight rigging, motorized rigging, stationary rigging, inspections, etc. (see drawing details for exact types/styles and quantities to provide), shall include verbiage as indicated and shall require the contractor to coordinate with the project structural engineer for verification of loading info, etc. Standard safety signage shall be similar to that provided by most rigging equipment manufacturers (hand winch operation, manual counterweight system operation, motorized winch operation, dead hung rigging systems, etc.). Submit all intended signage sizes, text, loading, sign attachment methods, etc. to consultant for approval prior to fabrication. Signage to be permanently attached to the wall on all four corners with screws, bolts or other similar means (Tapcon or similar). Neither adhesive backed tape nor pressure sensitive backings are acceptable as the sole means of mounting the signage. Foam core signage is not acceptable. All signage must be proofed, spell checked and grammatically correct prior to fabrication. Failure to do this will require new signage at the contractor's expense.
27. Provide floor marking and custom signage for all counterweight storage areas (up to a maximum of six distinct areas). Storage areas (quantity, size & location) shall be as determined by the owner and architect and shall be verified by the project structural engineer for maximum loading capacities, etc. Provide all required supplies, templates, blocking, paint, specialized safety signage, coordination, etc. for a professional result.
28. Provide Anvil International 3/8" standard duty, carbon steel beam clamp Fig. 133 series style beam clamps (with grade 8 bolts and sleeves) for the overhead suspension of all dead hung stage rigging sets. Ensure that all beam clamps are installed properly, sit straight, even and level on each beam, have both hex bolt/lock nuts installed so that the beam clamps cannot "open up" or sag in the middle

GENERAL NOTES:

Do not scale plans.

Field verify all dimensions before ordering material or performing any work. Location of all devices must be coordinated with existing and/or new architectural, mechanical, electrical and structural elements. Where conflicts occur contact the architect, construction manager and consultant in writing for clarification before performing any work.

Where work is critically dimensioned to work provided by others it is the sole responsibility of the contractor to verify the intended location of other elements with other contractors by reviewing their shop drawings.

Coordinate all work for symmetrical installation with relation to height and level with architectural elements, switches, outlets, and other controls.

This drawing represents the configuration of a system. It does not in any way constitute instructions for installation except with regards to configuration. The sole responsibility for field verification of dimensions, installation/fabrication methods, code conformance, safety issues, and the quality and performance of their work shall be that of the installing contractor.

This drawing is to be interpreted in conjunction with other drawings in the construction set as well as written specifications for this project. The contents of the drawing do not in any way negate the written specifications, nor do the written specifications in any way negate the contents of the drawings.

If there are inconsistencies between written specifications and drawings or between any drawing and other drawings in the construction document set it is the responsibility of the contractor to obtain clarification before bidding this project. If no clarification has been obtained prior to bid the contractor will abide by the decision of the architect and consultant at no additional cost to the owner even if work has to be redone.

Obtain shop drawings from all related trades to verify the intended configurations and scheduling of all contract work. All contractors are responsible for coordinating their work with other related trades in a manner that avoids conflicts of work, device placements and scheduling.

NOTE:

It is each contractor's responsibility to receive all device shipments, equipment, deliveries, etc. for their own equipment on/at the job site personally. This will require each contractor to carefully coordinate drop-ship delivery dates with the manufacturers and trucking companies in ETR order to have adequate personnel on site to inspect, unload and store all shipments. Each contractor shall be responsible to arrange for storage of all received materials on site until the appropriate time when he shall either turn them over to installing contractor or install them himself.

If the contractor chooses to allow a third party to receive shipments on his behalf, then that contractor bears sole responsibility for any missing and/or damaged parts and devices that may need to be reordered or rush freight required to maintain schedule, all at no additional cost to the owner.

Any equipment that is furnished by the receiving contractor but installed by others shall be turned over to the installing contractor at such time as it fits into their production schedule and the project's overall construction schedule.

Any large items such as racks, emergency transfer equipment, etc. shall be transported by the receiving contractor from its storage area and relocated to the general vicinity (i.e. in the room and general area) where it will be installed. At this point in time it shall be turned over to the installing contractor for installation.

DEFINITIONS:

ELECTRICAL/DIVISION 26 CONTRACTOR (EC) - Refers to the prime electrical contractor. The EC shall be providing additional work as shown on the TL, TR and TS series drawings that is indicated as being performed by the EC and in addition to work indicated on the E series drawings.

GC - Refers to the prime general contractor. The GC shall be providing additional work as shown on the TL, TR and TS series drawings that is indicated as being performed by the GC and in addition to work indicated on the A, S & other related series drawings.

THEATRICAL CONTRACTOR (TC) - Refers to the prime contractor providing theatrical stage rigging systems & curtains, new lighting systems equipment, new theatrical sound, projection, AV, acoustic enhancement, control and other systems equipment as indicated on the contract documents. The TC shall be providing work as shown on the TL, TR and TS series drawings that is indicated as being performed by the TC.

PROVIDE - Furnish all materials, labor and related services to complete the work indicated.

INSTALL - Provide labor and all miscellaneous materials to make a primary piece of equipment furnished by another contractor ready for use.

FURNISH - Deliver equipment to the site to be installed by another contractor.

SEE THEATRICAL SYSTEMS SCOPE DELINEATION MATRIX SPREADSHEETS ON TR4.X DRAWINGS FOR CLARITY OF CONTRACT RESPONSIBILITIES.

ELECTRICAL SCOPE NOTES FOR THE THEATRICAL RIGGING SYSTEM:

Each note and detail indicator indicates a typical location for the type of work to be performed or equipment to be provided. The referenced contractor shall provide for all instances of typical work indicated. All drawing notes may not appear or be referenced on each drawing; however, all notes still apply to the work indicated within each note and all similar instances of typical work shall be performed by the referenced contractor(s). All work shall conform to the standards of Divisions 19 & 26 as well as this project's architectural & structural standards, the construction schedule, the current National Electric Code (NEC) and all other applicable codes and standards.

REFER TO THE 19 3000 SPECIFICATIONS SECTION AND ALL OTHER TR SERIES DRAWING NOTES, KEYS, SCHEDULES, ETC. AS THEY CONTAIN ADDITIONAL INFORMATION REGARDING THE EC'S SCOPE OF WORK AS IT RELATES TO THE THEATRICAL RIGGING SYSTEM.

The contractor shall perform all electrical work as described below and on each TR series drawing as well as all required work per the manufacturer's approved shop drawings.

It is understood that there may be multiple instances/quantities of devices that are not shown on the contract drawings but that are required in the final configuration per the manufacturer's shop drawings. All contractors are responsible to provide for all required instances/quantities and locations as part of their bid. Consult the manufacturer's shop drawings for all final instances/quantities prior to rough-in and provide for all.

PROFESSIONAL STANDARDS:

The contractor is expected to install all work to the appropriate industry professional standards, manufacturer recommendations and current applicable codes. If any work required exceeds the skills of the contractor, then he shall employ appropriate subcontractors for the scope required.

The acceptability of materials and workmanship shall be determined by the Architect, Consultant and CM.

Any work that might be damaged, inadvertently painted or become dirty during construction will be protected by the contractor. All responsibility for protection shall be by the contractor. The contractor shall provide final cleaning and or repair of all equipment in their scope to like new condition.

The contractor shall attend and/or arrange meetings as required to ensure their scope is coordinated with all other trades. The contractor is responsible to make known to all other trades critically dimensioned items and locations to avoid conflicts. Where conflicts occur, follow required procedures in the project manual to seek resolution.

Where any substandard work is provided by related trades that impedes the work of the contractor, he shall notify the CM, Consultant, Architect or Engineer in writing as called for in the project manual to rectify the issue.

Where work is provided by others, the contractor is responsible to verify installation conditions that relate to his work. If installation of related work is substandard, then the contractor shall generate a written RFI through proper channels based upon the project manual. The contractor shall not install his work to any substandard devices, etc. provided by others until such work has been resolved or until the contractor has received written authorization from the construction manager to proceed. If the contractor ignores substandard installation work by others and proceeds to install his devices to these items, then he accepts and bears sole responsibility to repair, reinstall and correct any found deficiencies to the satisfaction of the owner upon final inspections.

The contractor shall comply with the AHJ (Authority having jurisdiction) as it relates to programming any and all emergency interfaces.

The contractor is expected to possess knowledge of the equipment of his industry and provide all required small items required to install the specified equipment. Provide all small items such as rack rails, DIN rails, power cords, connectors, wall-wart power supplies, crimps, nicopress and other items that may not be specifically called out on the drawings or in the specs but are required to support primary equipment.

When in doubt about any aspect of the work, the contractor should not proceed until he obtains clarification from the appropriate entity with authority following procedures detailed in the project manual.

Any time the contractor is working in the attic space above a ceiling (plaster, gyp, grid, wood, etc.), he is responsible to follow all OSHA protocols and to provide all temporary planking, plywood, walking/work platforms, misc. tie-offs, sit harnesses or any other means required to ensure a safe working environment inside this attic space and in order to access the fixtures, JB's and all other locations/devices that he must access or install or conduit that he must run.

INSTALLATION OF EQUIPMENT:

Install system devices, feeder cabling, disconnects, wiring, etc. as delineated on the Theatrical Systems Scope Delineation Matrix Spreadsheet included on these drawings. All items bearing the mark "X" in the column are the responsibility of the indicated contractor to perform.

All attachment methods for equipment to conform to Division 26 and Division 19 specifications.

If owner input and written sign-offs are not obtained on device locations prior to rough-in as indicated, then the contractor will relocate all improperly located devices, conduit & wire as required at no additional cost to locations as chosen by the owner.

GENERAL ELECTRICAL REQUIREMENTS:

A Provide all devices, conduits, junction boxes, backboxes, wiring, etc. that are required to have a specified rating as devices with those ratings and listings per all applicable codes. This includes CE, UL, ETC, NEMA, plenum ratings, etc.

No conduits and/or wiring shall be allowed to be routed in, around or in such a way as to restrict or obstruct the movement of any rigging system components. Any conduits and/or wiring so installed shall be required to be moved by the installing contractor. This note applies to all conduits and/or wiring on this project (lighting, audio, video, AV, rigging, data, fire system, network, smoke detection, alarm, etc.).

Labeling: All conduits shall be clearly labeled on each end as to their origin and destination in a simple, logical manner. All junction boxes, switch boxes and backboxes indicated on drawings shall be labeled with the nomenclature indicated on the drawings. All outlet boxes shall be labeled with the corresponding panel and circuit designations they are fed from. Permanent black marker on conduit or junction box face is acceptable on conduits, junction boxes, etc. that will not be painted. If any related devices are to be painted, then provide the following: Conduits shall be labeled with 3M Durable ID Labels with permanent adhesive (applied after painting). Junction boxes, etc. shall be labeled with 3M Durable ID Labels with permanent adhesive (except stage devices, which shall be labeled with Lamacoid style engraved labels, permanently adhered to the device). All junction boxes, outlets, etc. shall also be labeled on the back of each cover plate and also with a durable tag inside each box stating the same information. All labeling shall be done with block style lettering/numbering by hand or printed. All labeling shall reference the device's designation, conduit originations/destinations, etc. & not be a coded, indexed or legend style referencing system. Masking tape labeling is not allowed.

Painting: The contractor shall be responsible to paint all conduit, JB's, flex/MC, fittings, hardware, misc. related items, strut channel, touch-up of affected areas, etc. that he has provided, interacted with, mounted to and as indicated (typically a flat finish paint to match the substrate the items are mounted to, unless other specific instructions have been listed-VIF in writing with owner, architect and CM prior to implementation). Painting shall be required regardless of the contractor's installation schedule, the delivery schedule of related trades and their equipment or the timing of the painting contractor and his work. This includes proper prime paint coats as well as all required covering finish coats. All paint must be appropriate for the device/surface it is applied to. Properly prep all surfaces prior to painting. All paint must be applied professionally without any runs, drips, streaking, blotching, etc. and must present an even final finish coat over the entire surface of the item being painted.

All provided, furnished or installed equipment and labor may appear in schedules, on plan layouts, in flow diagrams or on detail drawings. Carefully consult each drawing in order to obtain an exact delineation of his responsibilities as it pertains to provision of equipment, installation of equipment for others, assembly and wiring of equipment furnished by others and other necessary installation labor as noted in detail on these TR series drawings.

All locations & clearances shown for the rigging system & other related devices are specific & critical and may not be altered in the field without obtaining prior written permission from the consultant. Any new proposed locations or field obstructions must be communicated to the consultant in writing and clearly indicated on scaled plan drawings for approval prior to rough-in.

All conduits shall be clearly labeled as to their destination (permanent black marker on conduit acceptable). No conduit shall be allowed to be loaded beyond 50% fill.

Provide all low voltage control cabling pulled in and out of conduit as indicated on drawings. Do not pull any wire until submittals and rigging shop drawings have been approved & issued. Verify all wire types, quantities and routing with the approved submittal shop drawings.

ELECTRICAL SCOPE KEYED NOTES FOR THE THEATRICAL RIGGING SYSTEM:

B Obtain all final cable lengths related to the stage rigging/lighting system and related set travel limits prior to ordering or installation. The length of drop cabling, if indicated on these drawings, is approximate. The acceptable and proper length of swagged cabling shall allow full batten movement as indicated and yet not be so long as it would drag on the floor, catch or otherwise impede set movement nor so short that it imposes undue stresses on the grid iron or drop boxes or the cable as it exits these boxes. Allow an Initial extra length of cable, in addition to the length shown on these drawings, which allows sufficient overall length in order to facilitate easy termination of wiring inside the grid iron boxes, drop boxes & connector strips while maintaining an appropriate swag to the cabling (as shown). Field cut to final dimensions once set movements and final trims have been worked out with related trades. This note applies to all SO multicable, DMX, network, projection screen power & control cables and any mic or speaker cable drops that are present in this design and that relate to the stage rigging system in any way. The SO cabling MUST be installed and allowed to dangle/hang free & completely unfurled over the stage for at least (1) week in order to allow any cable memory formed to dissipate. Protect cable from damage at all times.

C Provide all required power, breakers, conduit & wiring from a power panel designated on electrical drawings to power the SSRC LED index lighting system(s). All conduit, flex, supports, JB's, misc. boxes, etc. must be painted flat black as indicated (along entire length) & must be routed to the outrigger battens/brackets & index lighting case as indicated (typically along walls and supports - not across blank space where devices, wiring, conduit, etc. can become damaged by rigging system components, spilled counterweights, etc.). See TC for help in establishing the best wiring path along his rigging system supports, etc.

D Provide all required power, conduit & wiring, new black SO cabling, etc. in order to repower the existing reinstalled projection screen system(s). See TC for help in establishing the best wiring path along his rigging system supports, etc. and to locate so that the cabling will swag properly onto the related set batten. See details for more info.

THEATRICAL RIGGING SYSTEM KEYED REMOVAL NOTES:

Perform work as described below and on other TR series drawings. All work shall conform to the standards of spec section 19 3000 and the general, demolition and structural contract sections:

Each note indicates a typical location for the type of work to be performed or equipment to be provided. Provide for all instances of typical work indicated. All drawing notes may not appear or be referenced on each drawing; however, all notes still apply to the work indicated within each note and shall be performed by the referenced contractor(s).

1 All rigging related items shall be removed in accordance with the project schedule and related trades. Notes may only indicate the location of one item but is understood to be typical of all items in the same category.

Remove means to disconnect, remove and either dispose of or store items as indicated. If removal of any item leaves any protruding hardware or holes that present hazards or violate fire codes, such items will be properly finished, infilled or removed in order to maintain code compliance and general overall safety. Coordinate removals work with related removals work by others, disconnection of related power to indicated and related lighting devices and the overall project schedule. The removals notes listed below are not necessarily listed in their proper sequential order. Perform removals work in the proper logical sequence and so that any related systems are properly powered down and/or disconnected prior to the commencement of removals work, etc. Removals work shall be performed in the order that results in the maximum safety benefit for all involved, both equipment and personnel.

All devices, curtains, lines, clamps, rigging hardware, blocks, etc. being removed and slated for legal disposal shall first be offered to the owner for their right of first refusal. If the owner does not wish to retain certain items, then obtain written verification of the owner's intent prior to legally disposing of such noted items.

Prior to the commencement of any removals work, the contractor shall be required to do a thorough and overall "at height" inspection of the ETR stage and/or house steel being reused for new rigging systems equipment in order to ascertain any current overstressed conditions or existing steel damage. Field document with detailed notes & digital photos the existing conditions (both loaded and unloaded). Measurements shall include but not be limited to the following: upstage, midstage and downstage heights AFF, steel sloping, steel lateral movement - especially at the center span, torsional movement, any obvious damage, connection points and damage, etc. Use all appropriate measuring devices (tapes, lasers, angle indicators, etc.) as required. Prepare a fully detailed beam-by-beam report. All measurements shall be done both before and after existing rigging systems equipment has been removed. Note any discrepancies and submit report to the architect, CM, owner and consultant prior to moving forward with any other related work. All field notes & photos should be duly time-stamped with the date of acquisition. Any devices indicated to be reused that are unfit for reuse due to damage, deflection, twisting, etc. shall be flagged officially by an RFI at the earliest point of discovery in order to obtain owner, architect and consultant input as to direction of how to proceed.

Prior to the commencement of any removals work, field document with detailed notes & digital photos the existing contents and configuration of the related systems and equipment (especially for any equipment that is indicated to be protected, reused and/or reinstalled). Obtain a written sign-off from an authorized owner's representative that confirms the system contents & configuration. All field notes & photos should be duly time-stamped with the date of acquisition. Any devices indicated to be reinstalled that are unfit for reinstallation shall be flagged officially by an RFI at the earliest point of discovery in order to obtain owner, architect and consultant input as to direction of how to proceed. Failure to perform these tasks may result in the contractor having to do additional work or provide replacement devices at no additional expense to the owner.

In all instances where the contractor is recommended or required to obtain owner sign offs, owner input on device locations, etc. the contractor must first verify that the signee is actually authorized by the owner to provide sign offs on every item listed. This would typically be written approval/notification from district level personnel (superintendent, CEO, CFO, etc.). Failure to do so may jeopardize any sign off sheets obtained and may require the contractor to provide additional (and potentially duplicate) equipment in order to satisfy contractual demands.

All device plastic wrap protection required and/or indicated below shall be performed using 6 mil+ heavy duty plastic sheeting. All seams shall be taped with heavy duty contractor's or industrial grade masking tape, air tight. All devices shall be wrapped in such a way as to prevent dirt, dust, construction debris infiltration. If devices to be wrapped contain sensitive electronics, then the contractor shall also provide an adequate supply/size of string sewn clay desiccant bags or equal moisture absorbers inside the plastic wrapping in order to prevent corrosion. Prior to the removal of all plastic protection, vacuum each plastic wrapped device or wipe clean with a damp cloth to remove all dirt, dust, etc., remove the protective tape/plastic and then perform a final cleaning of each unwrapped device with a damp cloth and vacuum.

It is understood that, when removing a rigging system and all related items, there may be a number of misc. items connected or mounted to the existing rigging system that are not specifically called out on the drawings (and may not have been visible or even present during field work inspections) that will need to be removed, maintained and/or reinstalled. This includes, but is not limited to, misc. scenery pieces, hanging mics, chandeliers, misc. backdrops, wiring runs, strut style supports, etc. For all such items, the contractor should field inspect and then remove, protect and reinstall similar to existing, as required, to the new stage rigging system, unless directed to do otherwise in the drawing notes. All such items shall be field verified with the owner prior to removals and reinstallations in order to obtain extents and pertinent parameters.

It is understood that, when performing removals and new installations work, the contractor is responsible to protect any items that are either not indicated for removal or that are indicated for reinstallation. This includes any related, unrelated, adjacent, etc. items that could become damaged by the contractor's work. This includes, but is not limited to, walls, floors, ceilings, shells, audio/AV equipment, consoles, lighting equipment, computers, furniture, power panels, conduits, doors, curtains, fabrics, set pieces, chairs, rigging system equipment, owner's tools, musical instruments, ladders, misc. cabling, etc.

It is understood that, when visual depictions of rigging elements are shown on the contract drawings, it is a diagrammatic representation of the items to be provided and/or removed. Not every instance or every style/type of device or related items to be provided and/or removed has or can be shown. The contractor is responsible to VIF and to provide/remove for all similar devices and classes of devices as those that are indicated.

2 Remove and store off-site for the duration of the project the existing manual or motorized projection screen. This screen shall be reinstalled to the new rigging system where indicated and similar to existing, including all related switches, conduit, wiring, interfaces, etc. Provide all new hardware as indicated and required. Coil up and protect all ETR wiring. Provide new and additional wiring as required to reach new set location and set travel limits.

3 Remove all existing curtains (border curtains, valance, travelers, legs and scenery drops and/or backdrops) and offer them to the owner for use as spares before legally disposing of these items.

4 Remove all existing curtain tracks, carriers, tension floor blocks, pulleys, rotators & related tracks and all related and misc. hardware and legally dispose of these items.

5 VIF @ height for all existing locations of head/loft steel, misc. steel, roof drains, HVAC, vents, conduit, access/working platforms, piping, misc. steel, obstructions, all related hangers/supports, etc. prior to shop drawings. Accurately detail these all on drawings. Typical.

6 Remove all existing stage rigging system components including, but not limited to, the following items: locking rails, floor blocks, hand/operating lines, wire-guide system, rope locks, lift lines, arbors, headblocks, loftblocks, pipe battens, eye bolts, suspension chain, turnbuckles, trim chains, pipe clamps, beam clamps, misc. wire rope, tie-offs, misc. hangers, Kindorf style channel and all related and misc. hardware and legally dispose of all these items.

7 Remove all existing tormentor lighting pipe assemblies and legally dispose of these items. Patch to match existing in all removed locations.

8 Have appropriate personnel on site to assist other trades during all related removals mentioned above in order to ensure that these items are removed in a safe manner and to prevent accidental runaway set or other unsafe "unloaded" conditions.

At all locations where devices have been removed from walls, floors or stage walls, etc. and has affected surfaces (i.e. holes in walls, ceilings, floors, mismatched wall paint, dirt, debris, protruding or otherwise irrelevant hardware, anchorages, etc.), patch to match existing for all affected surfaces (including device removals, touch up painting for affected surfaces, cleaning of surfaces, affected areas, etc.). See written specifications and front end contract documents for a more detailed description of patching requirements.

Refer to other TR series drawings, details & notes for more information on any items noted above as being reinstalled to the new system.

9 Remove and legally dispose of all existing system counterweights. Prior to scrapping these weights, obtain written permission from the owner.

There are approx. (200) existing 4" counterweights = approx. 5,600 lbs. (located on stage, either on floor, locking rail or in arbors)
There are approx. (15) existing 6" counterweights = approx. 720 lbs. (located on stage, either on floor, locking rail or in arbors)

10 Provide ETR stage/house floor protection as indicated & required for the duration of the project from removals to final installations. Contractor to protect the existing wood stage flooring from damage with rosin paper and plywood, or as deemed necessary. Thickness of plywood will be relative to the type of vertical lift being used by the contractor to gain access the overhead work area and the structural capability of the existing stage. Coordinate as required. See front end documentation for more info.

11 Provide appropriate protection of any ETR stage audio/AV equipment, racks, related items, etc. on the stage and house areas during construction. Provide heavy-duty plastic covers, solid overhead protections, etc. as required. Remove and discard all protections after completion of the project.

12 Remove all existing angle iron spanners, threaded rod drops, misc. hardware & C-clamps supporting the catwalk pipe battens. Legally dispose of all removed items. VIF for all locations (none shown on plan view drawings).

DRAWN BY:	SPJ
CHECKED BY:	SPJ
DATE:	07/24/2026
PHASE:	CD

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#	DATE:	REVISION:
1	10/09/2026	ISSUED FOR BID

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THEATRICAL RIGGING SYSTEM NOTES, KEYS & SCHEDULES - AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-TR4.2

PROJECT NO: 2012-254

Theatrical Systems TC/EC/GC Contract Responsibility Matrix

Item #	THEATRICAL RIGGING / Description (See schedules & notes for more information):	Furnished By TC	Provided By TC	Installed By EC	Provided By EC	Installed By GC	Provided By GC	NOTES / Misc. related notes
	ASBESTOS, LEAD, VERMICULITE & OTHER HAZ MAT ABATEMENT & MISC. PENETRATIONS/EXCAVATIONS SHALL BE BY ABATEMENT CONTRACTOR OR SUB-CONTRACTOR. SEE DRAWINGS FOR INSTANCES. COORDINATE AS REQUIRED FOR ANY HAZ MAT PENETRATIONS, ETC. RELATED TO THE NEW RIGGING SYSTEM INSTALLATIONS.							
	IT IS UNDERSTOOD THAT THERE MAY BE MULTIPLE INSTANCES/QUANTITIES OF DEVICES LISTED BELOW AND/OR THAT ARE NOT SHOWN ON THE CONTRACT DRAWINGS BUT THAT ARE REQUIRED IN THE FINAL CONFIGURATION PER THE MANUFACTURER'S SHOP DRAWINGS. ALL CONTRACTORS ARE RESPONSIBLE TO PROVIDE FOR ALL REQUIRED INSTANCES/QUANTITIES AND LOCATIONS AS PART OF THEIR BID. CONSULT THE MANUFACTURER'S SHOP DRAWINGS FOR ALL FINAL INSTANCES/QUANTITIES PRIOR TO ROUGH-IN AND PROVIDE FOR ALL.							
1	Patching to match existing for all affected, adjacent or related mounting surfaces, etc. that might become damaged, have holes cut into them, receive anchorages, be left with holes, etc. due to removals or new installations work.		X		X		X	Each contractor is responsible to patch to match existing for all surfaces affected by his scope of work. See drawing & spec notes, professional standards notes, etc. for more info & requirements.
2	Complete Set of PE Stamped shop drawings for the entire rigging system, including but not limited to, plan, section and elevation drawings as well as drawings of all related details, assemblies, load calculations, brackets, clamps, blocks, rails, battens/batten assemblies, suspensions, parts/devices, installation, fabrication, custom devices, Unistrut loading, etc. Shop drawingss must be stamped by an engineer currently licensed to work in the state of the project location. See written specifications for more info as it regards the intent and meaning of this full set of PE stamped drawings and what the engineer must evaluate prior to stamping the set of drawings.		X					There may be related electrical related & related coordination work.
3	Existing rigging system removals work		X		X			There may be related electrical coordination work.
4	Existing stage/house floor protection paper/plywood as indicated. This is not a voluntary act. Contractor must comply. Protection must be new.		X		X		X	This is not optional. Each contractor must provide to protect in his specific areas of work.
5	HVAC Ductwork, Plumbing, Allowable Locations/Routing, Etc.						X	Coordinate with the TC for exact required locations prior to shop drawings and/or installation.
6	Additional new steel for Headblocks, Loftblocks, Etc. (All labor, materials & related coordination - See A & S series drawings for complete info)						X	Coordinate with the TC for exact required locations prior to shop drawings and/or installation.
7	Upper stage bracing steel (All labor, materials & related coordination - See A & S series drawings for complete info)						X	Coordinate with the TC for exact required locations prior to shop drawings and/or installation.
8	Misc. Structural bracing members, etc. (All labor, materials & related coordination - See A & S series drawings for complete info)						X	Coordinate with the TC for exact required locations prior to shop drawings and/or installation.
9	Spanning Steel (Unistrut) - Miscellaneous for rigging attachments		X					Provide as required. Include all labor, hardware, etc.
10	Measuring & verification (at height) of all ETR stage/house steel being reused for support of new rigging systems equipment BOTH prior to removals work and immediately after removals work. This includes, but is not limited to, verification of beam sizes, evidence of any damage, twisting, sagging, sloping, crowning, bending, overstressed conditions, etc.		X					Includes detailed measurements, photographs and report on a beam by beam basis. Reports shall be sent to the entire design team in order to assess suitability of ETR steel for reuse.
11	All coordination with related trades & building equipment as it relates to the theatrical systems equipment, required installation locations, exclusion zones, conduit/wiring routings, etc.				X		X	Both contractors share equal responsibility to coordinate their work, to be informed of how their work may impact that of others & related systems and to shift/relocate their equipment installation locations in order to accommodate those of the rigging systems equipment shown on these drawings.
12	Catwalk Lighting Pipe Batten - New Support Hardware, Etc. (All Unistrut, threaded rod, labor, materials, hardware & related coordination).		X					VIF for field conditions. Reinstall catwalk pipe battens in as close to ideal locations for fixture hangs as can be fit given space constraints and ETR framing, ceilings, cutouts, etc.
13	Painting Work: Only for GC provided items such as new beams, bracing, locking rail support shelf assembly, etc. as is shown on drawings as being provided by the GC. Typically devices shall not be allowed in their "natural" shiny, gray or otherwise unpainted condition. All devices shall be painted to match and/or as indicated. VIF for color and provide as required. This is typically flat black unless otherwise noted.						X	See S series drawings for more info and all details regarding new GC related steel work to support the stage and house rigging systems devices & assemblies. The GC shall not be responsible for painting devices, hardware, etc. provided by others.
14	Painting Work: Only for TC provided devices such as misc. support items, Unistrut spanning/bridging metal, pipe battens, misc. beam clamps, misc. threaded rod, etc. as is shown on drawings as being provided by the TC. Typically devices shall not be allowed in their "natural" shiny, gray or otherwise unpainted condition. All devices shall be painted to match and/or as indicated. VIF for color and provide as required.		X					The TC shall not be responsible for painting devices, hardware, etc. provided by others.
15	Painting Work: Only for EC provided devices such as misc. support items, Unistrut spanning/bridging metal, pipe battens, misc. beam clamps, misc. threaded rod, etc. as is shown on drawings as being provided by the EC. Typically devices shall not be allowed in their "natural" shiny, gray or otherwise unpainted condition. All devices shall be painted to match and/or as indicated. VIF for color and provide as required.		X		X			The EC shall not be responsible for painting devices, hardware, etc. provided by others.
16	Rigging Equipment Labeling (all devices)		X					
17	Locking Rail		X					
18	Locking rail corner bumper system		X					
19	Locking Rail Structural Attachments (slab, rails, etc.)		X					
20	Locking Rail Wall Stanchion System		X					Includes custom steel frames, all engineering, welding, etc. for each required location.
21	Locking Rail screen/guard wall (onstage locking rail only)		X					
22	Rope Locks		X					
23	Keyed Alike Master Locks for Rope Locks		X					Provide (1) For Each Arbor Location.
24	Floor Blocks		X					
25	Arbors & Counterweights		X					
26	Arbor Guide System (J, T-Strut, wire) - Black anodized		X					
27	Wire Rope, Operating Lines, etc.		X					
28	Head blocks		X					
29	Head block welding to structural steel		X					
30	Loft blocks		X					
31	Loft block welding to structural steel		X					
32	Hardwood Arbor Stop Systems		X					Provide all other required Unistrut, clamps, hardware, etc. to support hardwood stops.
33	Pipe battens		X					
34	Trim chains, shackles, safety bolts, etc.		X					
35	Beam clamps (all as required for suspension of rigging equipment)		X					
36	Batten end caps		X					
37	Batten labeling		X					Includes labels, misc. line markings & heat shrink tubing, etc.
38	Standard Safety & Operational Signage		X					Includes standard manufacturer signage for all included systems.
39	Custom Safety & Operational Signage		X					Includes custom safety signage for all included systems.
40	Laundry Hampers for curtain storage		X					
41	Dead Hung Rigging System Equipment		X					
42	Sag/Slap Bar Assemblies		X					VIF and provide as/if necessary @ all locations.
43	Side masking leg set tracks, hardware, etc.		X					
44	Stage Curtains & Tracks		X					Includes related floor pulleys, etc.
45	Curtain floor pulleys, operating lines & related routing of floor for recessed key plates, etc.	X						Floor routing must be clean & professional.
46	Specialty Curtains (all types - see curtain schedule for more info)		X					Includes related West Coast bags, etc.
47	Projection screen installation (screen case and some hardware ETR. Provide new, matching hardware as required to meet spec.)		X					Provide all required, indicated and misc. hardware.
48	Projection screen additional bracketing, clamps, black theatrical chain, misc. hardware, etc. (if not furnished by others or subcontractor)		X					Provide additional matching hanging brackets, etc. See rigging details for more complete info, required bracket count, etc.
49	Projection screen power & control wiring, black SO cabling, related conduit, etc.				X			Coordinate installation & required cable lengths, terminations, etc. with related trades, set travel limits, feed locations, cable swag requirements, etc.

Theatrical Systems TC/EC/GC Contract Responsibility Matrix

Item #	THEATRICAL RIGGING / Description (See schedules & notes for more information):	Furnished By TC	Provided By TC	Installed By EC	Provided By EC	Installed By GC	Provided By GC	NOTES / Misc. related notes
50	Stage Electrics		X					
51	Flexible SO Cable Drops On Stage Rigging				X			Black jacketed cabling required.
52	Flexible Data Cable Drops On Stage Rigging				X			Black jacketed cabling required.
53	Kellems Grips At Steel Height & Entering All Raceways, Etc.				X			
54	Kellems Grips & Cable Management Clamps At Battens		X					
55	SSRC CCP-X cable clamps on battens, etc.		X					Coordinate with the EC and actual cable size, quantity, etc.
56	Power for Index Light System				X			Black armored cabling required.
57	Dimmer for Index Light System	X		X				
58	Low Voltage Control Wire & Conduit For Index Light System				X			Black armored cabling required.
59	Low Voltage Control Cabling Termination For Index Light System		X					
60	Installation of Index Light System To Outriggers		X					
61	SSRC Index Light System Fixtures, Case Labels, Etc.		X					Includes all misc. hangers, supports, etc.
62	Index Light System Outriggers (or other hanging systems)		X					Includes all misc. hangers, supports, etc.
63	Welding (in all indicated instances)		X					Provide all certifications, inspections, etc. as indicated/required.
64	Tormentor Pipe Assemblies & Related Supports		X					
65	Tormentor Pipe Assembly Internal Wall/Ceiling Blocking						X	
66	Tormentor Pipe Assembly/Welding		X					
67	Access & Misc. Work Stepladders		X					
68	Misc. Safety Cable Systems		X					Includes all misc. hangers, supports, etc.
69	Catwalk Bumper/Safety Padding		X					
70	Internal Wall Blocking		X					Coordinate all locations with ETR walls, wall construction, access, etc. prior to installation.
71	Closeout and Punch List		X		X		X	All indicated contractors shall have closeout responsibilities and documentation required.
72	Connector strip brackets		X					
73	Locking Rail Screen Wall		X					
74	Owner Training		X					
75	DVD Training		X					

NOTE: In all categories where "Provided By" is checked for more than one contractor, it is understood that all indicated contractors bear equal responsibility to work in unison in order to satisfy the design criteria set forth in the contract documents.

Notes & descriptions indicate both general and specific areas of responsibility. See other drawings, other related drawing notes and drawing details for additional information and requirements as they pertain to each category listed above. Disregard any line items inadvertently left in this list that do not apply to this project.

GENERAL NOTES:

Do not scale plans.

Field verify all dimensions before ordering material or performing any work. Location of all devices must be coordinated with existing and/or new architectural, mechanical, electrical and structural elements. Where conflicts occur contact the architect, construction manager and consultant in writing for clarification before performing any work.

Where work is critically dimensioned to work provided by others it is the sole responsibility of the contractor to verify the intended location of other elements with other contractors by reviewing their shop drawings.

Coordinate all work for symmetrical installation with relation to height and level with architectural elements, switches, outlets, and other controls.

This drawing represents the configuration of a system. It does not in any way constitute instructions for installation except with regards to configuration. The sole responsibility for field verification of dimensions, installation/fabrication methods, code conformance, safety issues, and the quality and performance of their work shall be that of the installing contractor.

This drawing is to be interpreted in conjunction with other drawings in the construction set as well as written specifications for this project. The contents of the drawing do not in any way negate the written specifications, nor do the written specifications in any way negate the contents of the drawings.

If there are inconsistencies between written specifications and drawings or between any drawing and other drawings in the construction document set it is the responsibility of the contractor to obtain clarification before bidding this project. If no clarification has been obtained prior to bid the contractor will abide by the decision of the architect and consultant at no additional cost to the owner even if work has to be redone.

Obtain shop drawings from all related trades to verify the intended configurations and scheduling of all contract work. All contractors are responsible for coordinating their work with other related trades in a manner that avoids conflicts of work, device placements and scheduling.

Shall	Indicates that the contractor must perform work and provide devices as indicated. This is a mandatory, obligatory, contractual requirement and is not optional in any way.
Furnish	Supply and deliver items to the appropriate trade responsible for installation. Deliver to the site to a loading area agreed upon with the installing contractor.
Install	Unpack, move from loading area to installation location. Mount and connect equipment and associated items and make ready for use.
Provide	Procure all required materials, labor, coordination and equipment and locate, install, connect and test ready for use.
Remove	Safely disconnect equipment, including any and all wiring, hardware, conduit (except concealed), anchors, suspension hardware, etc. and legally dispose of items not called out to be offered/returned to owner or to be reinstalled.

This Contract Responsibilities Matrix Spreadsheet Shows The Responsibilities Of The GC (General Contractor), The EC (Electrical Contractor) And The TC (Theatrical Contractor) For The Specified Theatrical Rigging System Equipment Shown On The TR Series Drawings And As Described In Spec Section 19 3000.

Locations For Devices, Conduit Layouts, Wire, Line And Load Info And Other Details Are Indicated On Other TR Drawings. Consult The Entire Set.

All Miscellaneous Hardware, Mounting Anchors, Etc. Are To Be Provided By The GC/EC As Indicated. Where GC/EC Items Do Not Have Equipment Indicated As Being Furnished By The TC, It Is Understood The GC/EC Is Providing The Item Scope Entirely.

Where Equipment Items Are Indicated To Be Furnished By The TC, It Is Understood That He Is Furnishing The Equipment To The Site. The EC Is Installing The Equipment As Noted.

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THEATRICAL RIGGING SYSTEM NOTES, KEYS & SCHEDULES - AREA D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

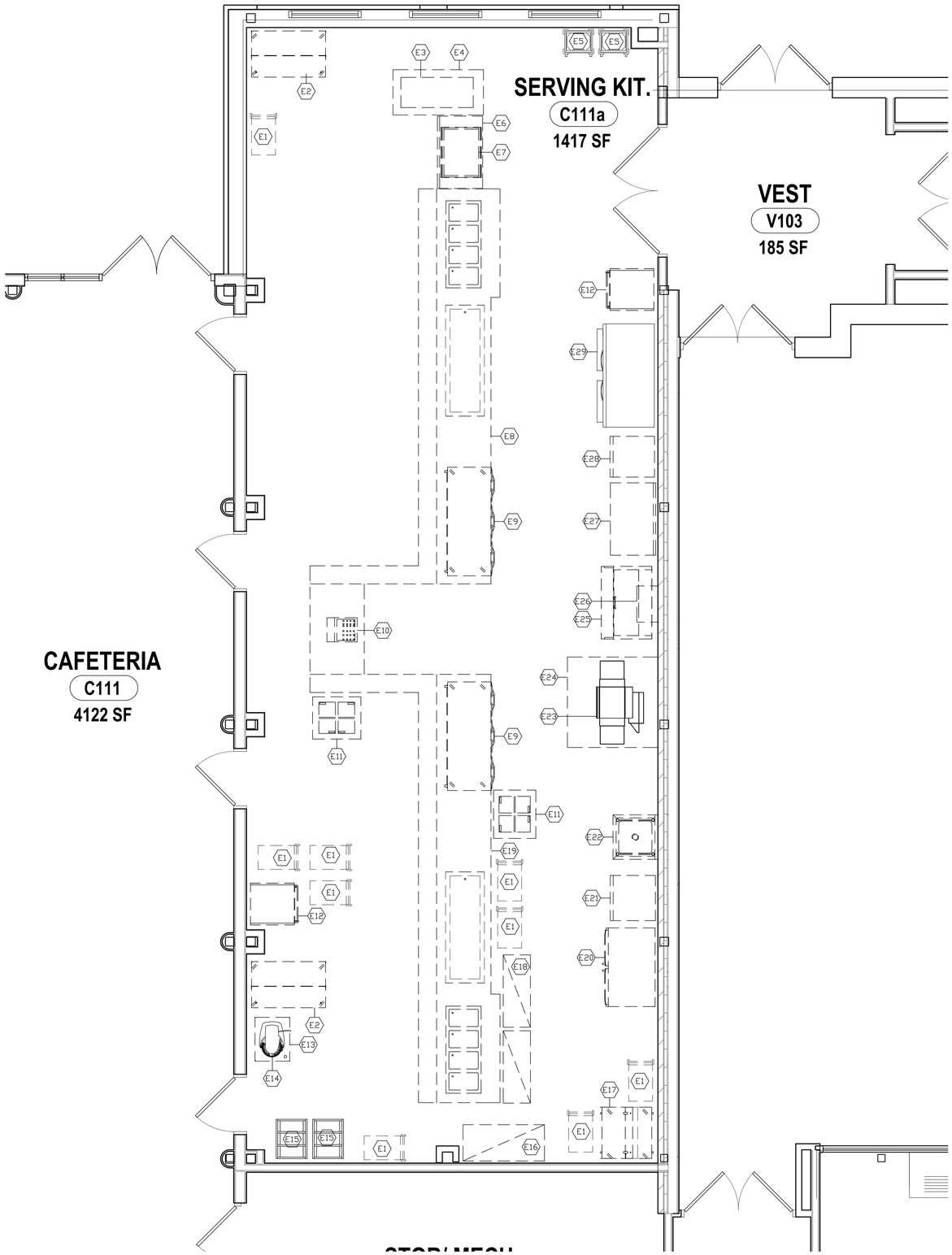
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BR-TR4.3

PROJECT NO: 2012-254



1 EXISTING FOODSERVICE EQUIPMENT DRAWING
3/8" = 1'-0"

BROADWAY 9TH GRADE EXISTING FOODSERVICE EQUIPMENT SCHEDULE		
Item No	Qty	Equipment Category
E1	1 Lot	Mobile Utility Carts
E2	2	Servolift Milk Coolers
E3	1	Hatco Warming Shelf
E4	1	Mobile Worktable 30x60
E5	1 Lot	Tray Lowerators
E6	1	Worktable 30x48
E7	1	Hatco Heated Sandwich Slide
E8	1	Left Serving Line
E9	2	Victory Undercounter Refrigerators
E10	1	Cash Register
E11	2	Nelson Ice Cream Cabinets
E12	2	Winston Mobile Warming Cabinets
E13	1	Mixer Stand
E14	1	Bench Mixer
E15	1	Mobile Sheetpan Racks
E16	1	Shelving Unit 24x54
E17	1	Continental Milk Cooler
E18	2	Security Shelving Units 18x48
E19	1	Right Serving Line
E20	1	Victory 2 Door Refrigerator
E21	1	Residential Freezer
E22	1	Sink
E23	1	Lincoln Conveyor Oven
E24	1	Exhaust Hood
E25	1	True Pizza Prep Unit
E26	1	Fire Suppression Cabinet
E27	1	Worktable 30x48
E28	2	Victory 1 Door Refrigerator
E29	1	Continental 2 Door Roll-in Refrigerator

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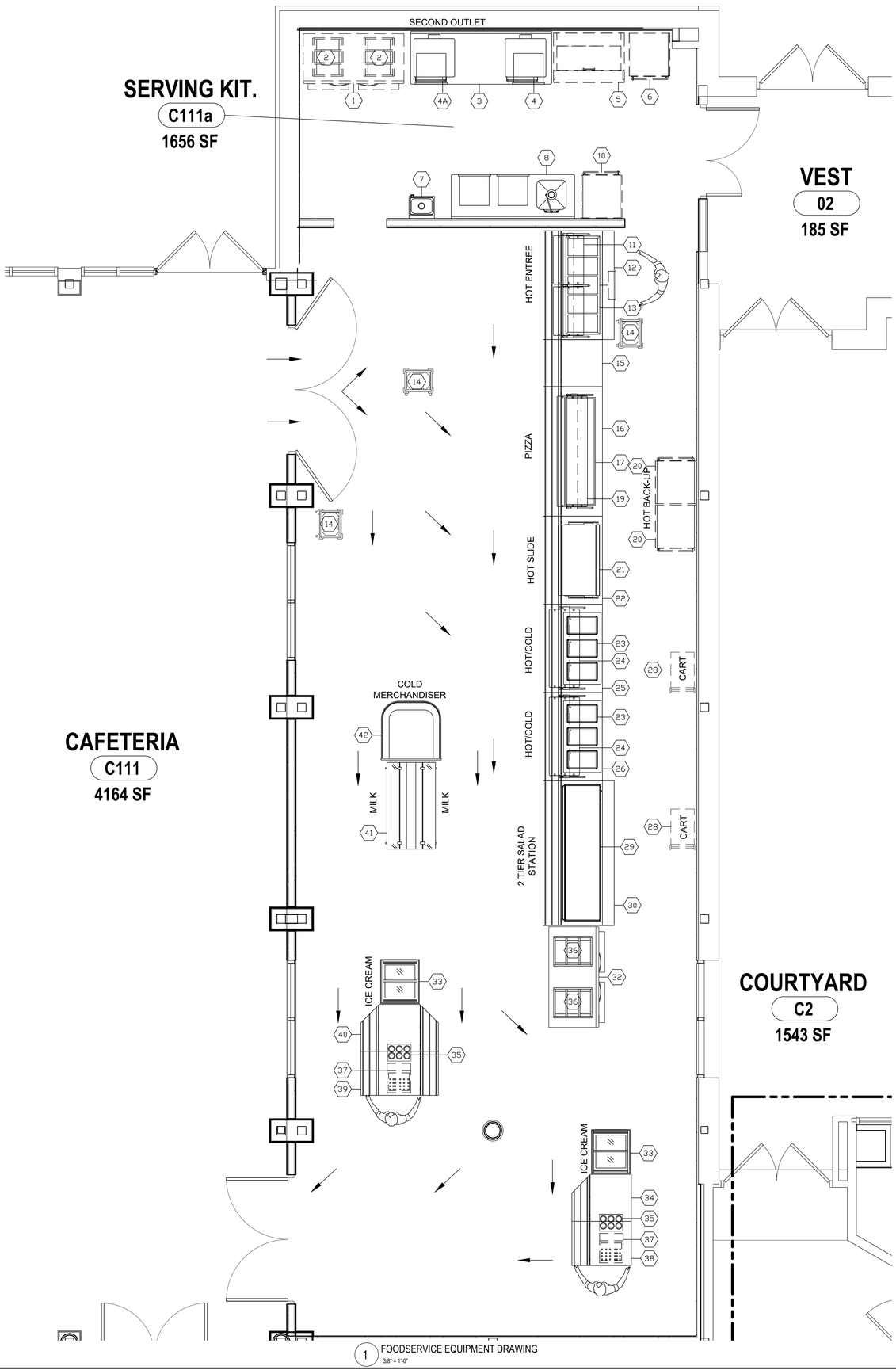
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EXISTING FOODSERVICE EQUIPMENT DRAWING
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: BR - 070-06-00-01-0-034-027, 07-06-00-01-0-034-028

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PROJECT NO: 2012-254



BROADWAY MS FOODSERVICE EQUIPMENT SCHEDULE		
Item No	Qty	Equipment Category
1	1	2 Door Continental Roll-in Refrigerator (Existing Item# E29 - Relocate)
2	2	Sheet Pan Racks (Existing Item# E15 - Relocate)
3	1	Worktable
4	1	Double Batch Ventless Pizza Oven
4A	1	Double Batch Ventless Pizza Oven (Future NIC)
5	1	Pizza Prep Unit (Existing Item# E25 - Relocate)
6	1	Mobile Proofer
7	1	Hand Sink
8	1	Worktable w/Sink
9	---	Spare Number
10	3	Mobile Hot Holding Cabinets
11	1	Breath Protector
12	1	Solid Top Unit
13	1	5 Well Hot Food Unit (Waterless)
14	1 Lot	Mobile Tray Lowerators
15	1	Solid Top Unit
16	1	Solid Top Unit
17	1	Heated Shelf
18	---	Spare Number
19	1	Breath Protector
20	2	Mobile Warming Cabinets (Existing Item# E12 - Relocate)
21	1	Hot Sandwich Slide
22	1	Solid Top Unit
23	2	3 Well Hot/Cold Units
24	2	Breath Protectors
25	1	Solid Top Unit
26	1	Solid Top Unit
27	---	Spare Number
28	1 Lot	Utility Carts (Existing Item# E1 - Relocate)
29	1	2 Tier Hot/Cold Unit
30	1	Solid Top Unit
31	---	Spare Number
32	1	2 Door Roll-in Refrigerator
33	2	Ice Cream Merchandisers
34	1	Solid Top Unit
35	2	Silverware Units
36	2	Mobile Sheet Pan Racks
37	2	Cash Registers (POS) (Existing Item# E10 - Relocate)
38	1	Cashier Station
39	1	Cashier Station
40	1	Solid Top Unit
41	1	Milk Cabinet
42	1	Refrigerated Merchandiser

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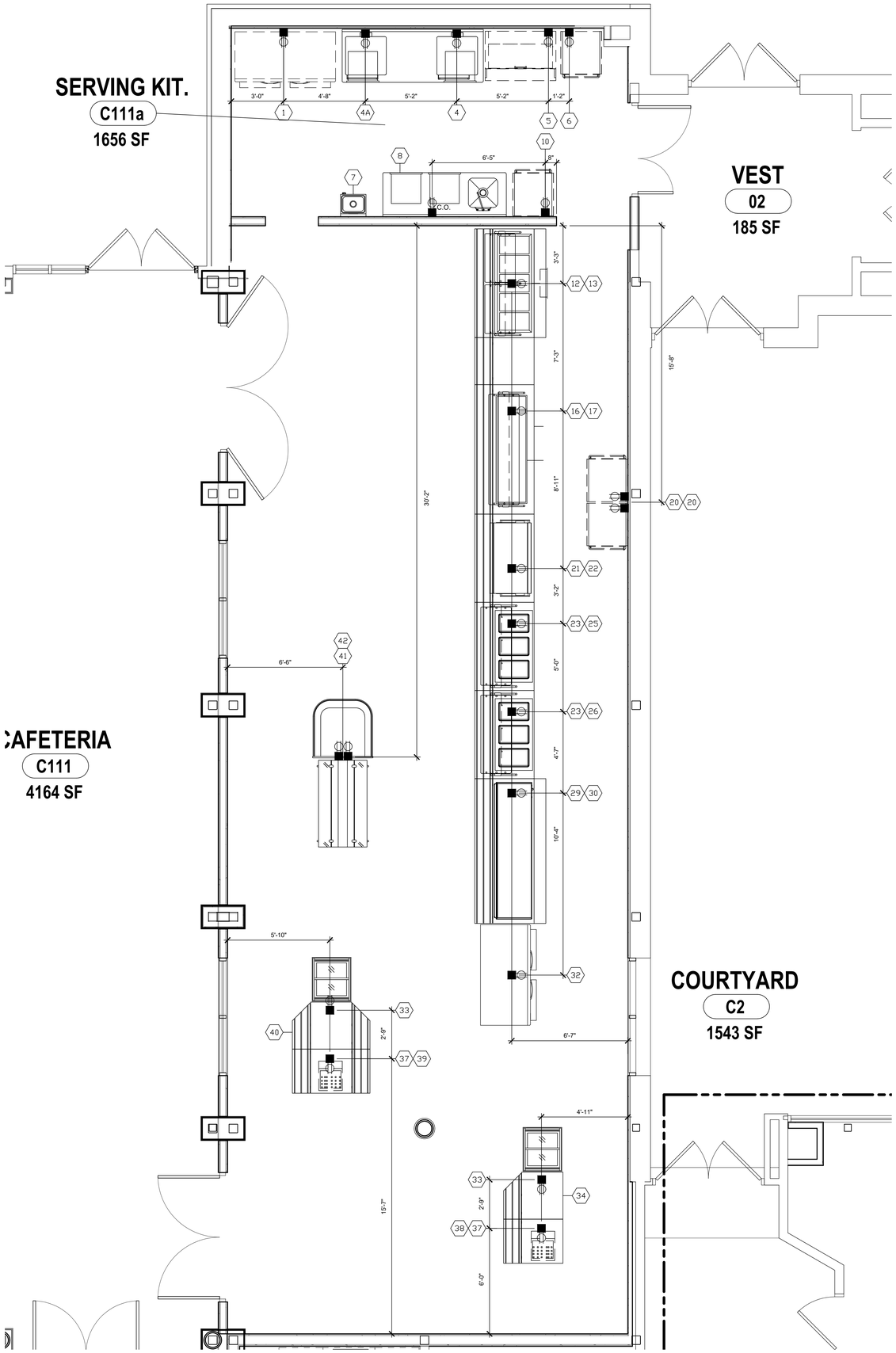
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FOODSERVICE EQUIPMENT DRAWING
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
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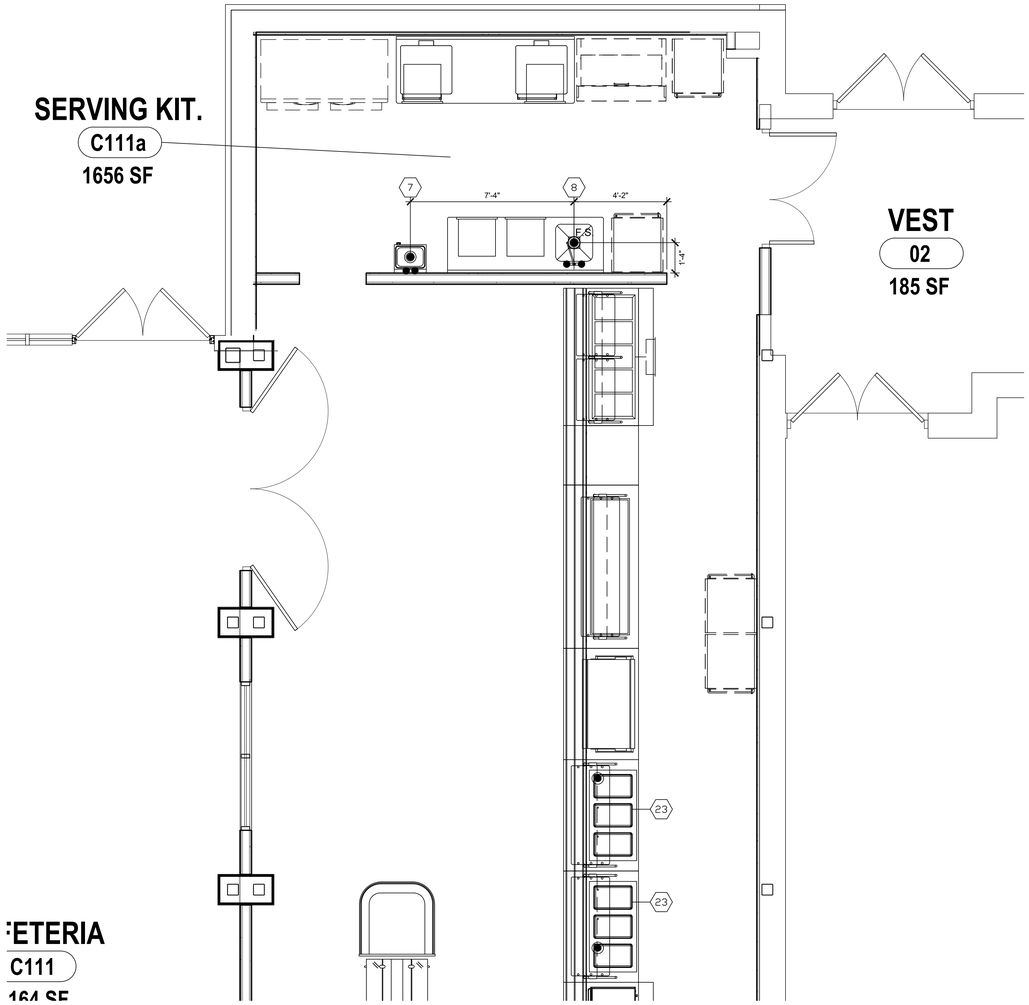
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PROJECT NO: 2012-254



1 FOODSERVICE EQUIPMENT ELECTRICAL POC DRAWING
3/8" = 1'-0"



2 FOODSERVICE EQUIPMENT PLUMBING POC DRAWING
3/8" = 1'-0"

SYMBOL/ ABBREVIATION SCHEDULE

PLUMBING - HEATING			ELECTRICAL		
C.W.	●	COLD WATER	E.C.	■	ELECTRIC CONNECTION
H.W.	●	HOT WATER	J.B.	⊘	JUNCTION BOX
G		GAS	S.R.	■◐	SINGLE RECEPTACLE
S	⊗	STEAM SUPPLY	D.R.	■◐	DUPLEX RECEPTACLE
R	⊗	STEAM RETURN	C.O.	■◐	CONVENIENCE OUTLET
PC	⊕	PIPE CONNECTION	R.C.	△	REMOTE CONNECTION
W	◉	WASTE	SW	⊘	SWITCH
I.W.	◉	INDIRECT WASTE			REMOTE MANUAL FIRE PULL
F.D.	◉	FLOOR DRAIN		☼	ELECTRIC LIGHT
F.S.	◉	FLOOR SINK	KW		KILOWATT
FFD.	◉	FUNNEL FLOOR DRAIN	HP		MOTOR HORSEPOWER
BTU		BRITISH THERMAL UNIT	AMP		AMPERE

MISCELLANEOUS			
DFA	DOWN FROM ABOVE	AFF	ABOVE FINISHED FLOOR
S.P.	STATIC PRESSURE	NIC	NOT IN KITCHEN CONTRACT
CFM	CUBIC FEET PER MINUTE	OW	OUT OF WALL
TEO	TOP OF ELECTRICAL OUTLET	ETR	EXISTING TO REMAIN

NOTE

THIS PLAN IS AN INSTRUMENT OF SERVICE PREPARED FOR THE CONVENIENCE OF THE ARCHITECT, ENGINEERS, AND BIDDERS. IT IS AS ACCURATE AS CAN BE DETERMINED AT THIS DATE. WE WILL NOT BE RESPONSIBLE FOR ANY DISCREPANCIES WHICH MAY DEVELOP BETWEEN LOCATIONS OF CONNECTIONS SHOWN AND ACTUAL LOCATIONS OF CONNECTIONS OF FIXTURES FURNISHED. THE FOOD SERVICE EQUIPMENT CONTRACTOR WILL FURNISH DIMENSIONED PLANS. CONNECTIONS SHOWN ARE APPROX. LOCATIONS AND ARE FOR REFERENCE ONLY!

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FOODSERVICE EQUIPMENT MEP POC DRAWING
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: BR - 070-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-FS1.2

PROJECT NO: 2012-254

BROADWAY MS FOODSERVICE EQUIPMENT MEP POC SCHEDULE

Item No	Qty	Equipment Category	Amps	KW	HP	Volts	Phase	Direct	Electrical AFF (in)	Plug	NEMA	Electrical Remarks	Cold Water Size (in)	Hot Water Size (in)	Cold Water AFF (in)	Hot Water AFF (in)	Direct Drain Size (in)	Direct Drain AFF (in)	Indir Drain Size (in)	Indir Drain AFF (in)	Plumbing Remarks	Item No
1	1	2 Door Continental Roll-in Refrigerator (Existing Item# E29 - Relocate)	9.4			120	1		80	X	5-15P	Note# A									No Plumbing Req.	1
2	2	Sheet Pan Racks (Existing Item# E15 - Relocate)										No Electrical Req.									No Plumbing Req.	2
3	1	Worktable										No Electrical Req.									No Plumbing Req.	3
4	1	Double Batch Ventless Pizza Oven	50.0			208/240	1		48	X	6-50P	Note# A									No Plumbing Req.	4
4A	1	Double Batch Ventless Pizza Oven (Future NIC)	50.0			208/240	1		48	X	6-50P	Note# A									No Plumbing Req.	4A
5	1	Pizza Prep Unit (Existing Item# E25 - Relocate)	2.9			120	1		24	X	5-15P	Note# A									No Plumbing Req.	5
6	1	Mobile Proofer	16.7			120	1		24	X	5-20P	Note# A									No Plumbing Req.	6
7	1	Hand Sink										No Electrical Req.	0.5	0.5	33.5	33.5	1.5	28			No Plumbing Req.	7
8	1	Worktable w/Sink										No Electrical Req.	0.5	0.5	34	34			(2) 1.5	24	Note# B	8
9	---	Spare Number										---									---	9
10	3	Mobile Hot Holding Cabinets	16.7			120	1		24	X	5-20P	Note# A									No Plumbing Req.	10
11	1	Breath Protector										No Electrical Req.									No Plumbing Req.	11
12	1	Solid Top Unit	15			208	1			X	6-15P	Notes# A & D (Outlet for item# 13)									No Plumbing Req.	12
13	1	5 Well Hot Food Unit (Waterless)	10.8			208	1			X	6-15P	Plugs into outlet on item# 12									No Plumbing Req.	13
14	1 Lot	Mobile Tray Lowerators										No Electrical Req.									No Plumbing Req.	14
15	1	Solid Top Unit										No Electrical Req.									No Plumbing Req.	15
16	1	Solid Top Unit	15			120	1			X	5-15P	Notes# A & D									No Plumbing Req.	16
17	1	Heated Shelf	12			120	1			X	5-15P	Plugs into outlet on item# 16									No Plumbing Req.	17
18	---	Spare Number										---									---	18
19	1	Breath Protector										No Electrical Req.									No Plumbing Req.	19
20	2	Mobile Warming Cabinets (Existing Item# E12 - Relocate)	14			120	1			X	5-15P	Note# A (Verify Electrical Requirements)									No Plumbing Req.	20
21	1	Hot Sandwich Slide	12.1			120/208	1			X	L14-20P	Plugs into outlet on item# 22									No Plumbing Req.	21
22	1	Solid Top Unit	15			120/208	1			X	L14-20P	Notes A & # D (Outlet for item# 17)									No Plumbing Req.	22
23	2	3 Well Hot/Cold Units	18.4			120/208	1			X	L14-20P	Plugs into outlet on items# 25 & 26							1.0	24	Note# E	23
24	2	Breath Protectors										No Electrical Req.									No Plumbing Req.	24
25	1	Solid Top Unit	20			120/208	1			X	L14-20P	Notes# A & D (Outlet for item# 23)									No Plumbing Req.	25
26	1	Solid Top Unit	20			120/208	1			X	L14-20P	Notes# A & D (Outlet for item# 23)									No Plumbing Req.	26
27	---	Spare Number										---									---	27
28	1 Lot	Utility Carts (Existing Item# E1 - Relocate)										No Electrical Req.									No Plumbing Req.	28
29	1	2 Tier Hot/Cold Unit	26.8			120/208	1			X	14-50P	Plugs into outlet on item# 30									No Plumbing Req.	29
30	1	Solid Top Unit	50.0			120/208	1			X	14-50P	Notes# A & D (Outlet for item# 29)									---	30
31	---	Spare Number										---									---	31
32	1	2 Door Roll-in Refrigerator	9.4			120	1		80	X	5-15P	Notes# A & C									No Plumbing Req.	32
33	2	Ice Cream Merchandisers	1.3		0.33	115	1			X	5-15P	Notes#A & D										33
34	1	Solid Top Unit										No Electrical Req.									No Plumbing Req.	34
35	2	Silverware Units										No Electrical Req.									No Plumbing Req.	35
36	2	Mobile Sheet Pan Racks										No Electrical Req.									No Plumbing Req.	36
37	2	Cash Registers (POS) (Existing Item# E10 - Relocate)	15.0			120	1	X			5-15R	Plugs into outlet on items# 38 & 39 (Verify Electrical & Data Req.)									No Plumbing Req.	37
38	1	Cashier Station	15.0			120	1			X	5-15P	Notes# A & D (Outlet for item# 37)									No Plumbing Req.	38
39	1	Cashier Station	15.0			120	1			X	5-15P	Notes# A & D (Outlet for item# 37)									No Plumbing Req.	39
40	1	Solid Top Unit										No Electrical Req.									No Plumbing Req.	40
41	1	Milk Cabinet	7.4			115	1			X	5-15P	No Electrical Req.									No Plumbing Req.	41
42	1	Refrigerated Merchandiser	8.2			208/230	1			X	6-20P	Notes# A & D									No Plumbing Req.	42
	1	Condensate evaporator assembly	15			120	1			X	5-15P										No Plumbing Req.	

GENERAL NOTES:

"A" Provide GFCI breaker.
"B" Plumbing contractor to interpipe waste to floor drain or floor sink.
"C" Provide drop cord from ceiling for unit to plug into.
"D" Provide floor receptacle no taller than 5" AFF for unit to plug into.
"E" Drains into Owner supplied bucket in the base of the cabinet

Note: The Contractor shall verify ALL information on this drawing, including NEMA outlet configurations and connections, prior to ordering, by submitting catalog cuts. These drawings shall be read in conjunction with the Mechanical, Plumbing and Electrical drawings. Contractors shall verify MEP requirements for all existing equipment.

1 FOODSERVICE EQUIPMENT MEP POC SCHEDULE
NTS

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FOODSERVICE EQUIPMENT MEP POC SCHEDULE
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: BR - 070-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-FS1.3

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

REFER TO BR-P0.1.

DEMOLITION NOTES - PLUMBING

D1 DISCONNECT AND REMOVE WATER CLOSET AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

D2 DISCONNECT AND REMOVE LAVATORY AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, HOT WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

D3 DISCONNECT AND REMOVE SINK AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, HOT WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

D4 DISCONNECT AND REMOVE URINAL AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

D5 DISCONNECT AND REMOVE MOP SINK AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, HOT WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

D6 DISCONNECT AND REMOVE WATER COOLER AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, SANITARY AND VENT PIPING BACK TO MAIN AND CAP.

D7 DISCONNECT AND REMOVE SANITARY PIPING AT POINTS INDICATED. PREPARE FOR RECONNECTION IN NEW WORK.

D8 DISCONNECT AND REMOVE GAS FROM AIR HANDLING UNIT. PREPARE FOR RECONNECTION IN NEW WORK. COORDINATE WITH OTHER TRADES.

D9 DICONNECT AND REMOVE SINK AND ALL ASSOCIATED ACCESSORIES. DISCONNECT AND REMOVE COLD WATER AND HOT WATER PIPING BACK TO ABOVE CEILING AND CAP. DISCONNECT AND REMOVE SANITARY PIPING TO BELOW SLAB AND CAP. DISCONNECT AND REMOVE VENT PIPING TO ABOVE CEILING AND CAP.

D10 DISCONNECT AND REMOVE PIZZA OVEN AND ALL ASSOCIATED ACCESSORIES. DISCONNECT AND REMOVE GAS PIPING TO ABOVE CEILING AND CAP.

D11 DISCONNECT AND REMOVE FLOOR DRAIN AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE SANITARY PIPING TO BELOW SLAB AND CAP.

D12 DISCONNECT COLD WATER AND HOT WATER PIPING TO POINTS INDICATED. PREPARE FOR RECONNECTION IN NEW WORK.

D13 DISCONNECT GAS PIPING AND ALL ASSOCIATED ACCESSORIES ON UPPER ROOF TO LOWER ROOF AT POINT INDICATED AND CAP.

D14 DISCONNECT AND REMOVE WATER CLOSET AND LAVATORY IN ITS ENTIRETY. DISCONNECT COLD WATER, HOT WATER AND SANITARY PIPING. PREPARE FOR REINSTALLATION IN NEW WORK. ALTERNATE #10.

D15 DISCONNECT AND REMOVE GAS AT POINTS INDICATED. PREPARE FOR RELOCATION IN NEW WORK.

D16 DISCONNECT AND REMOVE VENT THROUGH ROOF DOWN TO BELOW DECK. PREPARE FOR RECONNECTION IN NEW WORK.

D17 DISCONNECT AND REMOVE ROOF DRAIN AND ALL ASSOCIATED ACCESSORIES TO BELOW DECK AND CAP. PREPARE FOR RECONNECTION IN NEW WORK.

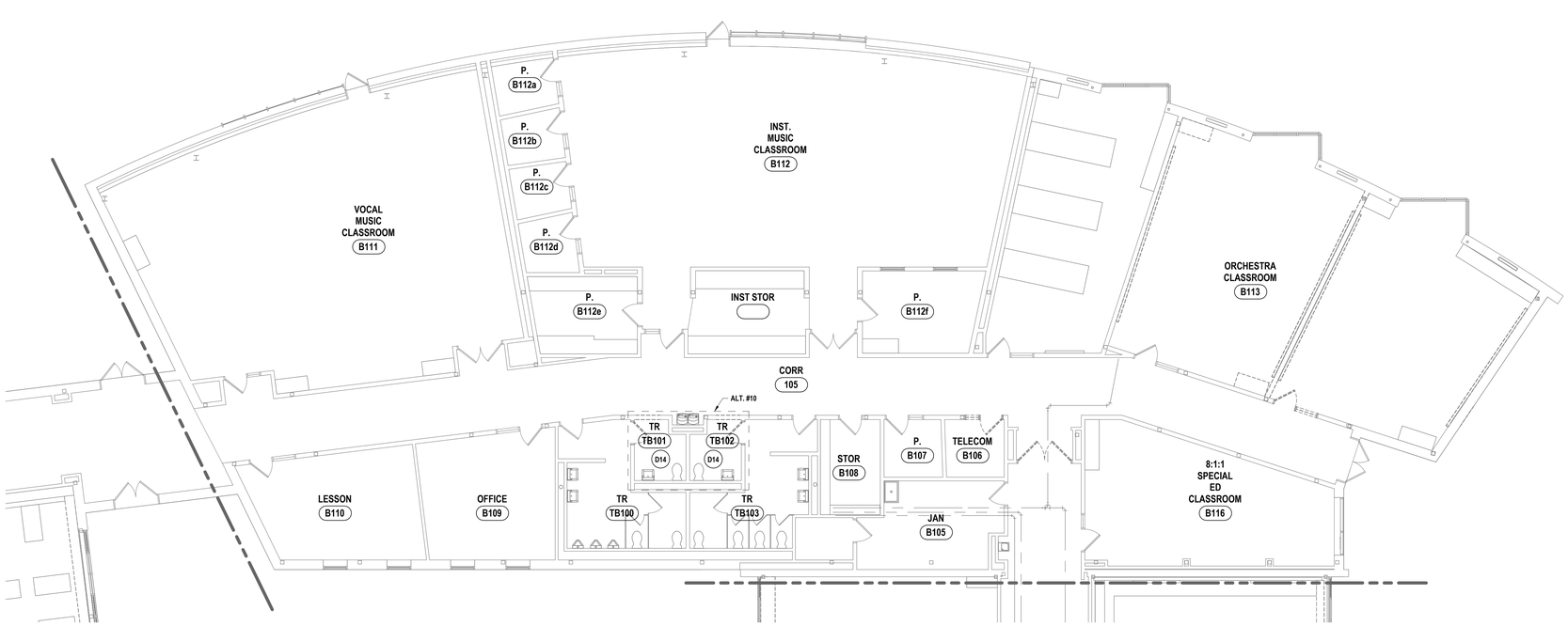
D18 DISCONNECT AND REMOVE WATER HEATER AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY.

D19 DISCONNECT AND REMOVE STORAGE TANK AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY.

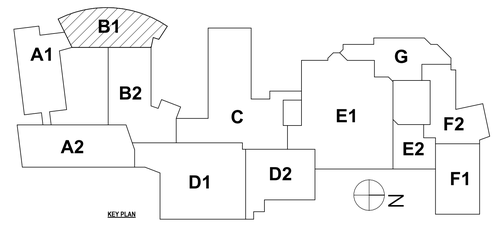
D20 DISCONNECT AND REMOVE GAS PIPING AND ALL ASSOCIATED ACCESSORIES TO POINTS INDICATED AND CAP AT FLOOR LEVEL.

D21 DISCONNECT AND REMOVE COLD WATER, HOT WATER AND HOT WATER RECIRC AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY IN THE MEZZANINE TO POINTS INDICATED ON FLOOR BELOW

D22 DISCONNECT AND REMOVE SANITARY PIPING AT POINTS INDICATED. CAP ON THE D104 SIDE. PREPARE FOR RECONNECTION ON THE D105 SIDE. ALTERNATE #9.



1 FIRST FLOOR DEMOLITION PLAN - AREA B1
1/8" = 1'-0"



KEY PLAN

DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	CD

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#	DATE:	REVISION:
1	10/09/2026	ISSUED FOR BID

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WWW.HUNT-EAS.COM 607 - 358 - 1000
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220313464-1

FIRST FLOOR DEMOLITION PLAN - AREA B1

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P0.1

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

REFER TO BR-P0.1.

DEMOLITION NOTES - PLUMBING

D1 DISCONNECT AND REMOVE WATER CLOSET AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

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D6 DISCONNECT AND REMOVE WATER COOLER AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, SANITARY AND VENT PIPING BACK TO MAIN AND CAP.

D7 DISCONNECT AND REMOVE SANITARY PIPING AT POINTS INDICATED. PREPARE FOR RECONNECTION IN NEW WORK.

D8 DISCONNECT AND REMOVE GAS FROM AIR HANDLING UNIT. PREPARE FOR RECONNECTION IN NEW WORK. COORDINATE WITH OTHER TRADES.

D9 DICONNECT AND REMOVE SINK AND ALL ASSOCIATED ACCESSORIES. DISCONNECT AND REMOVE COLD WATER AND HOT WATER PIPING BACK TO ABOVE CEILING AND CAP. DISCONNECT AND REMOVE SANITARY PIPING TO BELOW SLAB AND CAP. DISCONNECT AND REMOVE VENT PIPING TO ABOVE CEILING AND CAP.

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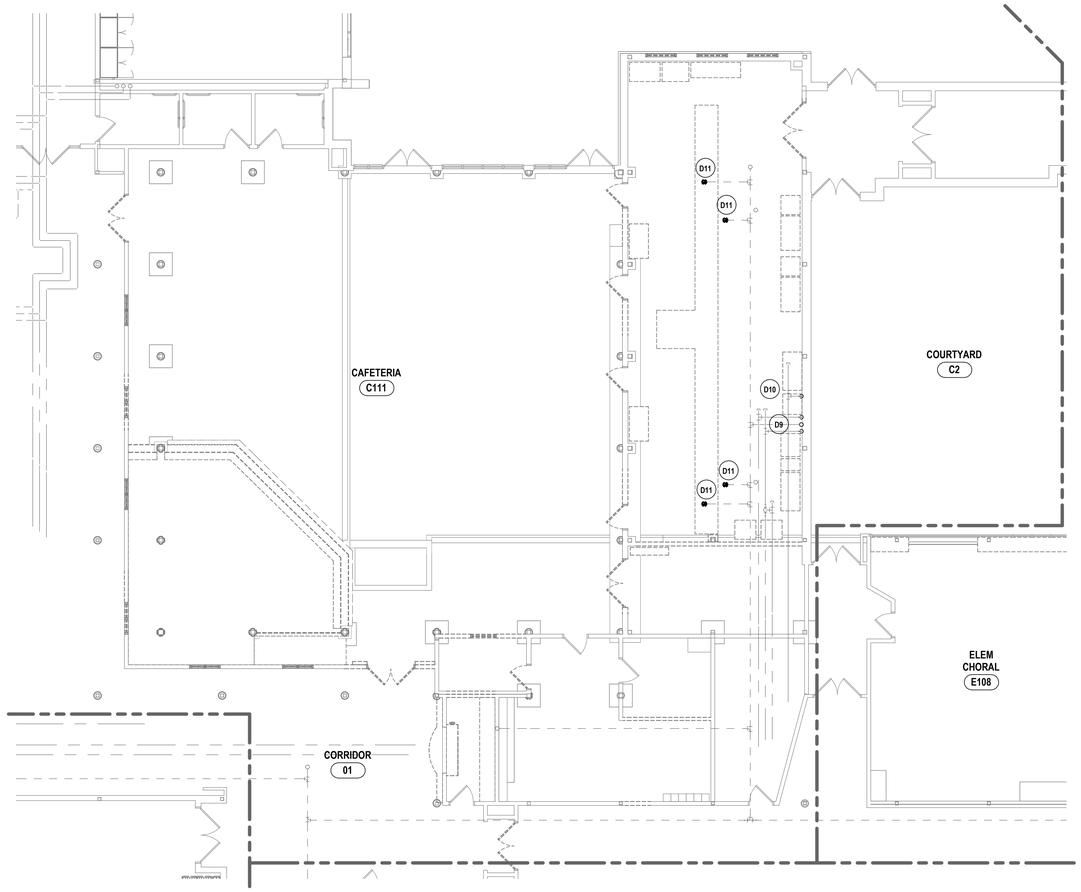
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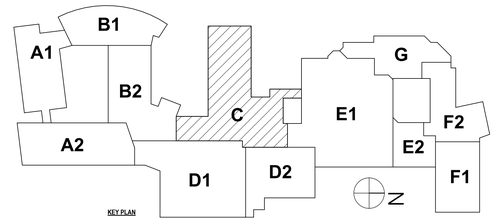
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D22 DISCONNECT AND REMOVE SANITARY PIPING AT POINTS INDICATED. CAP ON THE D104 SIDE. PREPARE FOR RECONNECTION ON THE D105 SIDE. ALTERNATE #9.



1 FIRST FLOOR DEMOLITION PLAN - AREA C
1/8" = 1'-0"



KEY PLAN

DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	CD

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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220313494-1

FIRST FLOOR DEMOLITION PLAN - AREA C

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED#: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P0.2

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

REFER TO BR-P0.1.

DEMOLITION NOTES - PLUMBING

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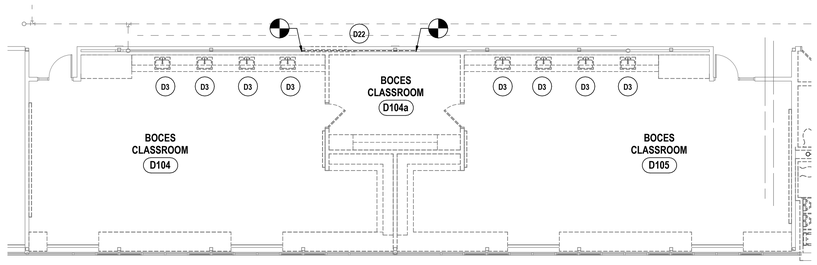
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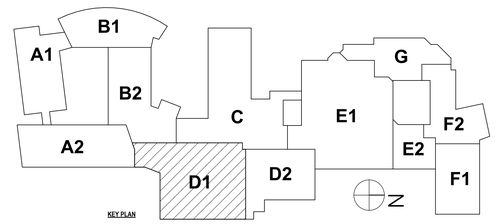
D22 DISCONNECT AND REMOVE SANITARY PIPING AT POINTS INDICATED. CAP ON THE D104 SIDE. PREPARE FOR RECONNECTION ON THE D105 SIDE. ALTERNATE #9.



2 FIRST FLOOR DEMOLITION PLAN - AREA D1 ALTERNATE #9
1/8" = 1'-0"



1 FIRST FLOOR DEMOLITION PLAN - AREA D1
1/8" = 1'-0"



DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	CD

#	DATE:	REVISION:
1	10/09/2026	ISSUED FOR BID

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WWW.HUNT-EAS.COM 607 - 358 - 1000
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220313484-1

FIRST FLOOR DEMOLITION PLAN - AREA D1

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

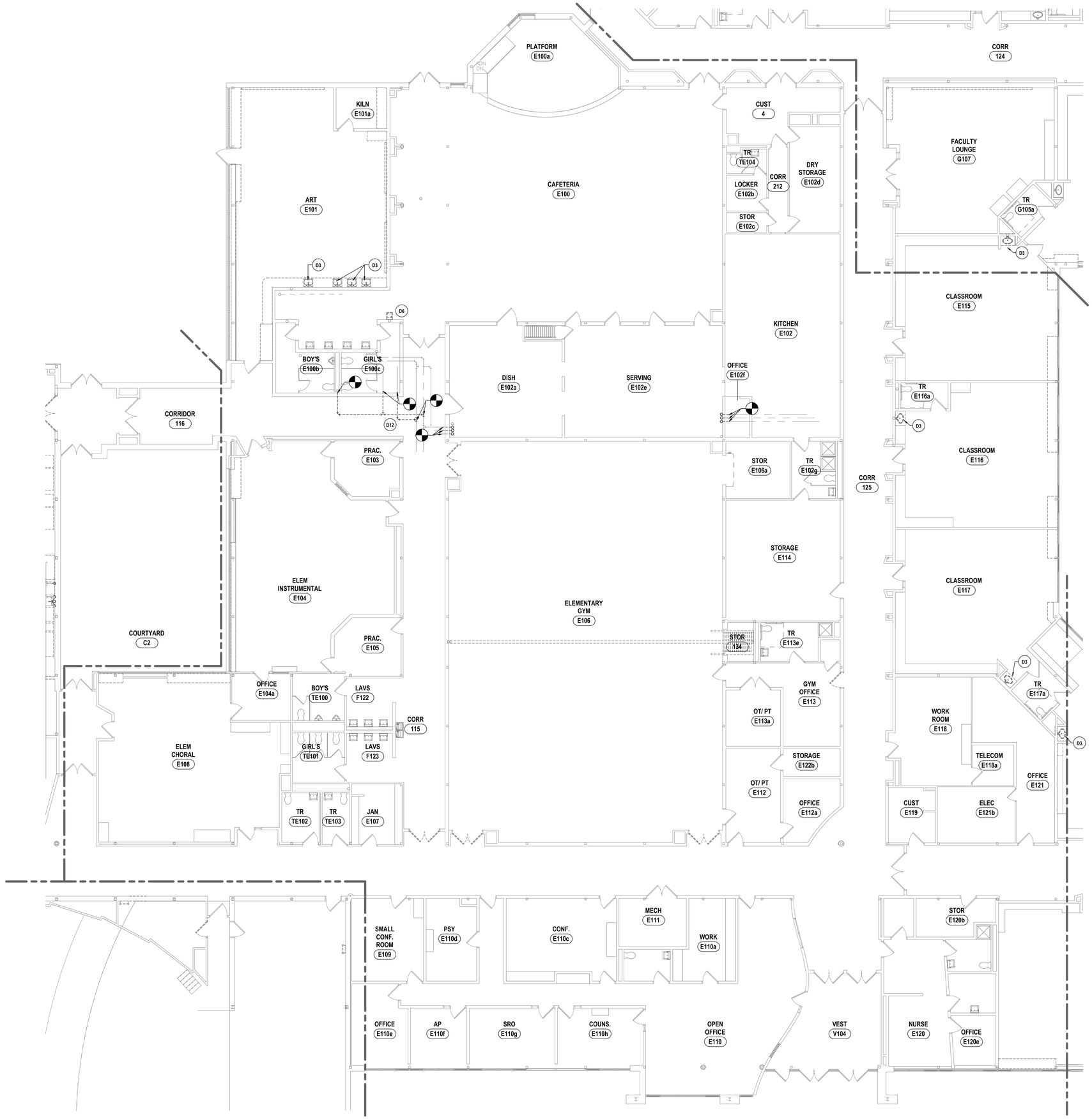
ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P0.3

PROJECT NO: 2012-254



1 FIRST FLOOR DEMOLITION PLAN - AREA E1
1/8" = 1'-0"

GENERAL NOTES - PLUMBING

REFER TO BR-P0.1.

DEMOLITION NOTES - PLUMBING

D1 DISCONNECT AND REMOVE WATER CLOSET AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

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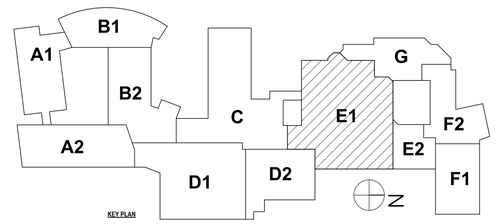
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KEY PLAN

DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	CD

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WOODBURY, NY - WILLIAMSVILLE, PA - WWW.HUNT-EAS.COM
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131484-1

FIRST FLOOR DEMOLITION PLAN - AREA E1

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P0.4

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

REFER TO BR-P0.1.

DEMOLITION NOTES - PLUMBING

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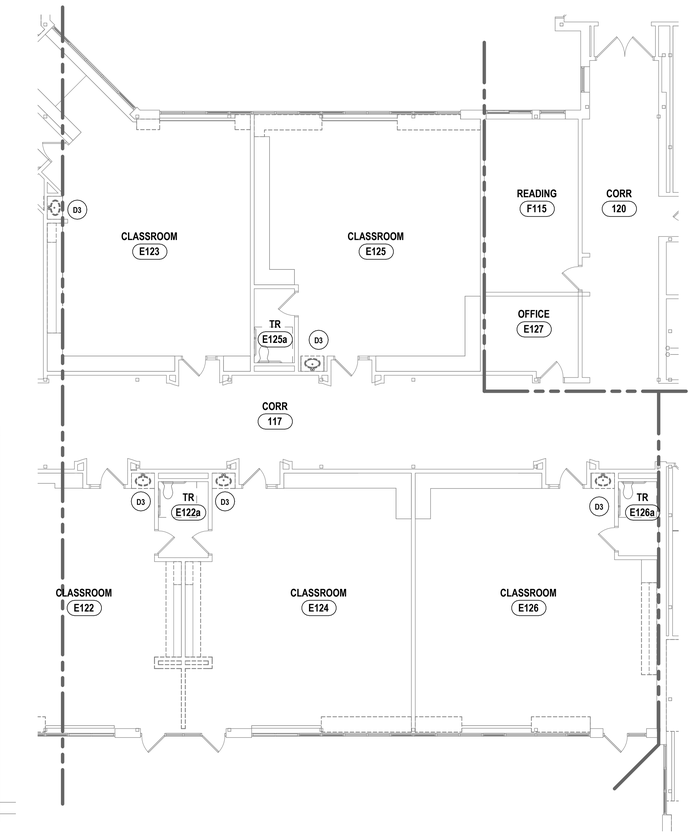
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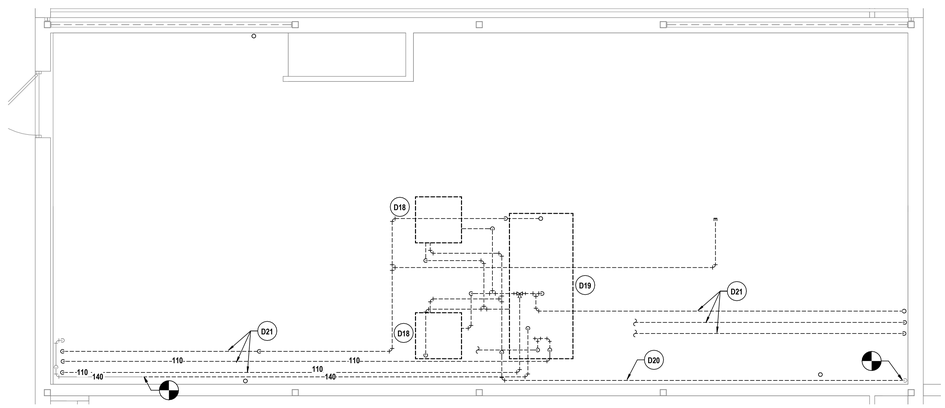
D20 DISCONNECT AND REMOVE GAS PIPING AND ALL ASSOCIATED ACCESSORIES TO POINTS INDICATED AND CAP AT FLOOR LEVEL.

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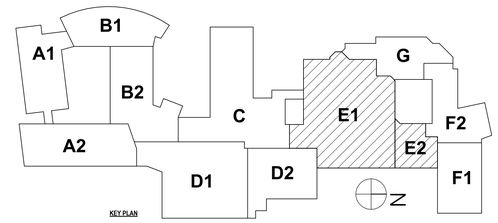
D22 DISCONNECT AND REMOVE SANITARY PIPING AT POINTS INDICATED. CAP ON THE D104 SIDE. PREPARE FOR RECONNECTION ON THE D105 SIDE. ALTERNATE #9.



1 FIRST FLOOR DEMOLITION PLAN - AREA E2
1/8" = 1'-0"



2 MEZZANINE DEMOLITION PLAN
1/4" = 1'-0"



KEY PLAN

DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	CD

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#	DATE:	REVISION:
1	10/09/2026	ISSUED FOR BID

IT IS A VIOLATION OF THE LAW FOR ANY PERSON TO MAKE UNAUTHORIZED ALTERATIONS OR ADDITIONS TO PLANS BEARING A LICENSED ENGINEER'S, ARCHITECT'S OR SURVEYOR'S SEAL."

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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220313484-1

FIRST FLOOR DEMOLITION PLAN - AREA E2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P0.5

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

REFER TO BR-P0.1.

DEMOLITION NOTES - PLUMBING

D1 DISCONNECT AND REMOVE WATER CLOSET AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

D2 DISCONNECT AND REMOVE LAVATORY AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, HOT WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

D3 DISCONNECT AND REMOVE SINK AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, HOT WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

D4 DISCONNECT AND REMOVE URINAL AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

D5 DISCONNECT AND REMOVE MOP SINK AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, HOT WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

D6 DISCONNECT AND REMOVE WATER COOLER AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, SANITARY AND VENT PIPING BACK TO MAIN AND CAP.

D7 DISCONNECT AND REMOVE SANITARY PIPING AT POINTS INDICATED. PREPARE FOR RECONNECTION IN NEW WORK.

D8 DISCONNECT AND REMOVE GAS FROM AIR HANDLING UNIT. PREPARE FOR RECONNECTION IN NEW WORK. COORDINATE WITH OTHER TRADES.

D9 DICONNECT AND REMOVE SINK AND ALL ASSOCIATED ACCESSORIES. DISCONNECT AND REMOVE COLD WATER AND HOT WATER PIPING BACK TO ABOVE CEILING AND CAP. DISCONNECT AND REMOVE SANITARY PIPING TO BELOW SLAB AND CAP. DISCONNECT AND REMOVE VENT PIPING TO ABOVE CEILING AND CAP.

D10 DISCONNECT AND REMOVE PIZZA OVEN AND ALL ASSOCIATED ACCESSORIES. DISCONNECT AND REMOVE GAS PIPING TO ABOVE CEILING AND CAP.

D11 DISCONNECT AND REMOVE FLOOR DRAIN AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY, DISCONNECT AND REMOVE SANITARY PIPING TO BELOW SLAB AND CAP.

D12 DISCONNECT COLD WATER AND HOT WATER PIPING TO POINTS INDICATED. PREPARE FOR RECONNECTION IN NEW WORK.

D13 DISCONNECT GAS PIPING AND ALL ASSOCIATED ACCESSORIES ON UPPER ROOF TO LOWER ROOF AT POINT INDICATED AND CAP.

D14 DISCONNECT AND REMOVE WATER CLOSET AND LAVATORY IN ITS ENTIRETY. DISCONNECT COLD WATER, HOT WATER AND SANITARY PIPING. PREPARE FOR REINSTALLATION IN NEW WORK. ALTERNATE #10.

D15 DISCONNECT AND REMOVE GAS AT POINTS INDICATED. PREPARE FOR RELOCATION IN NEW WORK.

D16 DISCONNECT AND REMOVE VENT THROUGH ROOF DOWN TO BELOW DECK. PREPARE FOR RECONNECTION IN NEW WORK.

D17 DISCONNECT AND REMOVE ROOF DRAIN AND ALL ASSOCIATED ACCESSORIES TO BELOW DECK AND CAP. PREPARE FOR RECONNECTION IN NEW WORK.

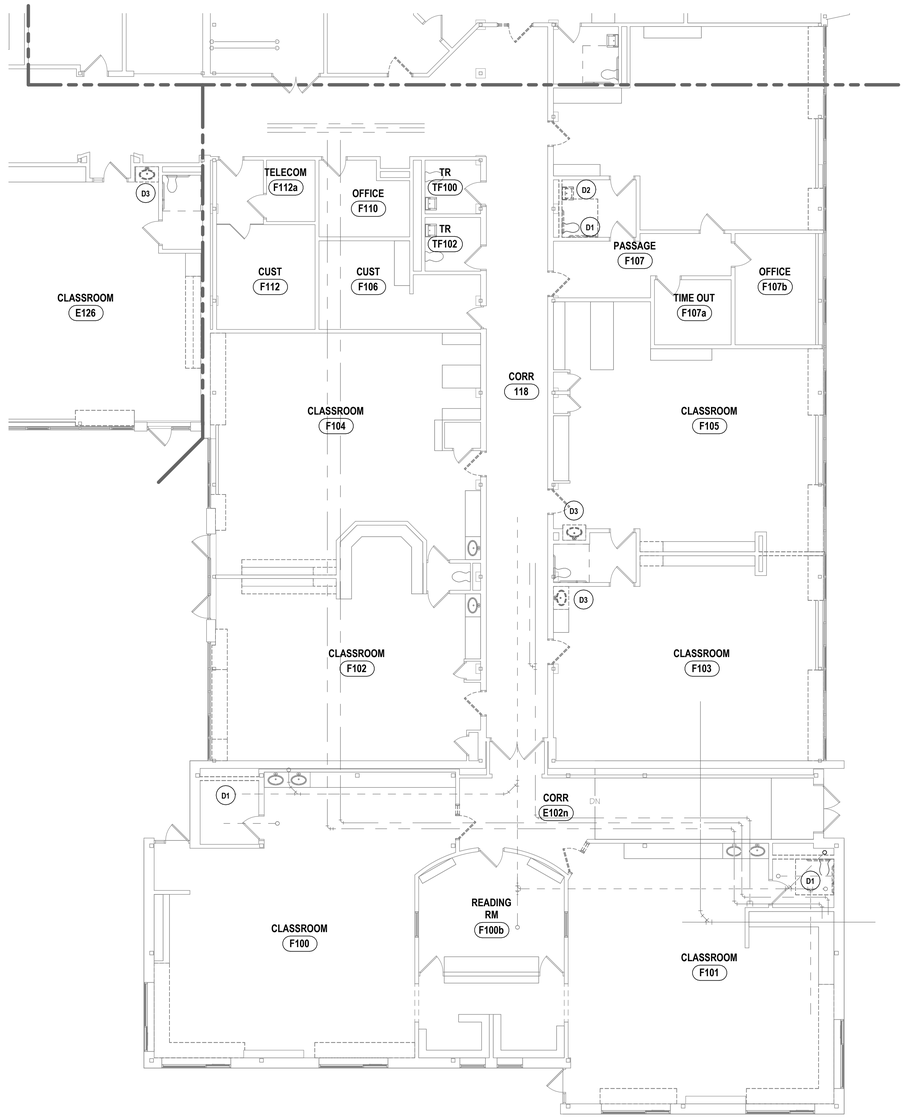
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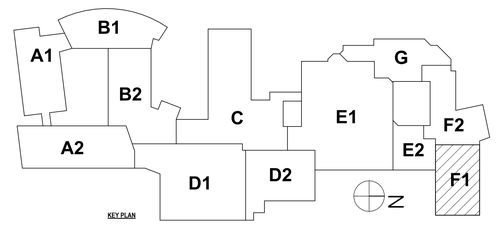
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1 FIRST FLOOR DEMOLITION PLAN - AREA F1
1/8" = 1'-0"



KEY PLAN

DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	CD

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TOWANDA, PA - WILLIAMSPORT, PA - WILMINGTON, NC
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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131494-1

FIRST FLOOR DEMOLITION PLAN - AREA F1

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P0.6

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

REFER TO BR-P0.1.

DEMOLITION NOTES - PLUMBING

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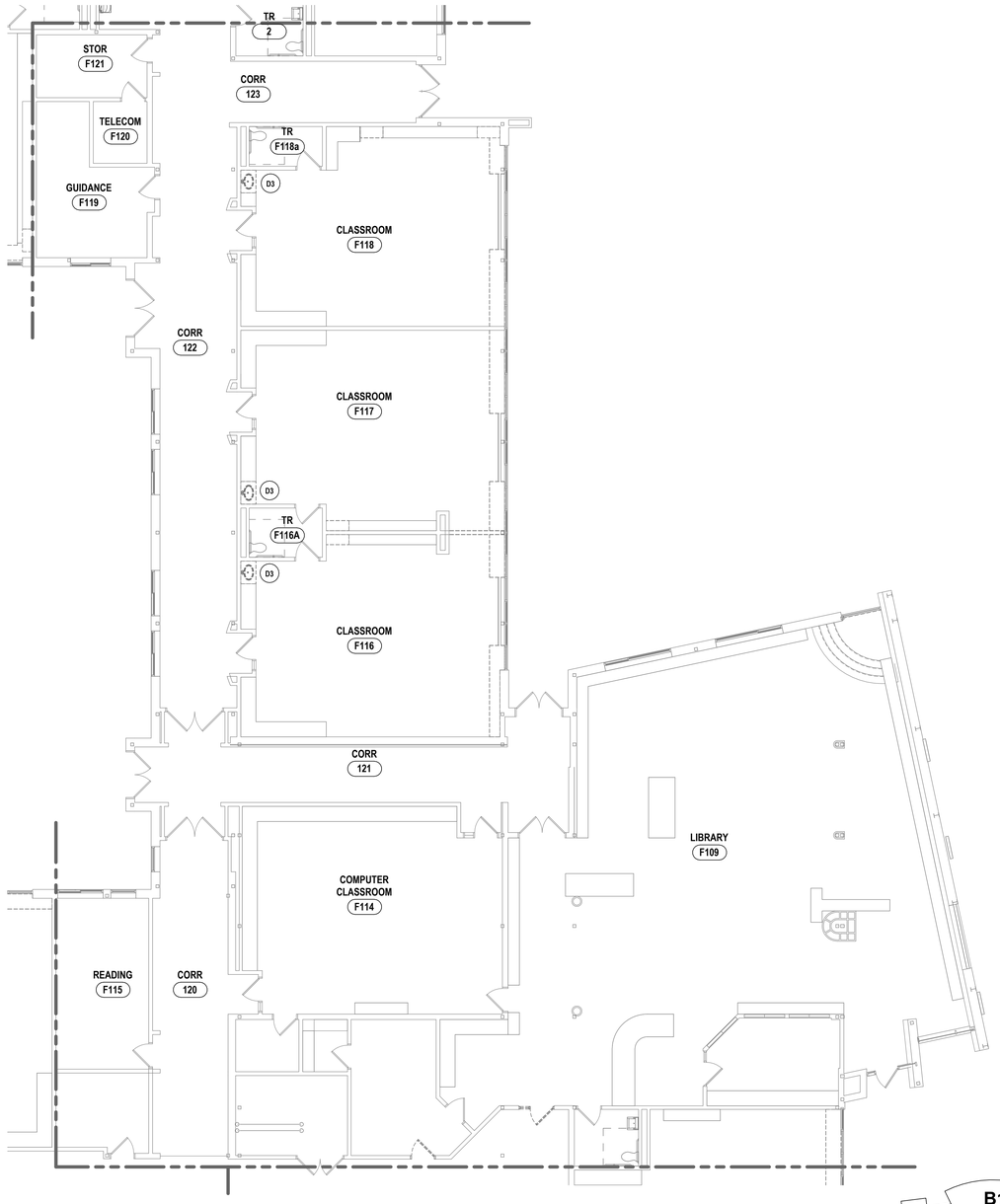
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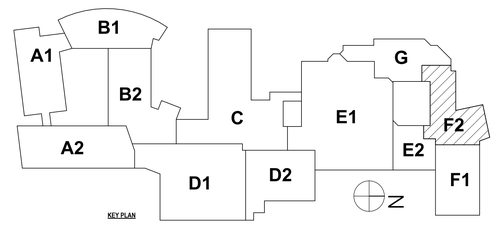
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D22 DISCONNECT AND REMOVE SANITARY PIPING AT POINTS INDICATED. CAP ON THE D104 SIDE. PREPARE FOR RECONNECTION ON THE D105 SIDE. ALTERNATE #9.



1 FIRST FLOOR DEMOLITION PLAN - AREA F2
1/8" = 1'-0"



KEY PLAN

DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	CD

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#	DATE:	REVISION:
1	10/09/2026	ISSUED FOR BID

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PITTSBURGH, PA - WILLIAMSPORT, PA
WWW.HUNT-EAS.COM 607 - 358 - 1000
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220313464-1

FIRST FLOOR DEMOLITION PLAN - AREA F2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED.#: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P0.7

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

REFER TO BR-P0.1.

DEMOLITION NOTES - PLUMBING

D1 DISCONNECT AND REMOVE WATER CLOSET AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

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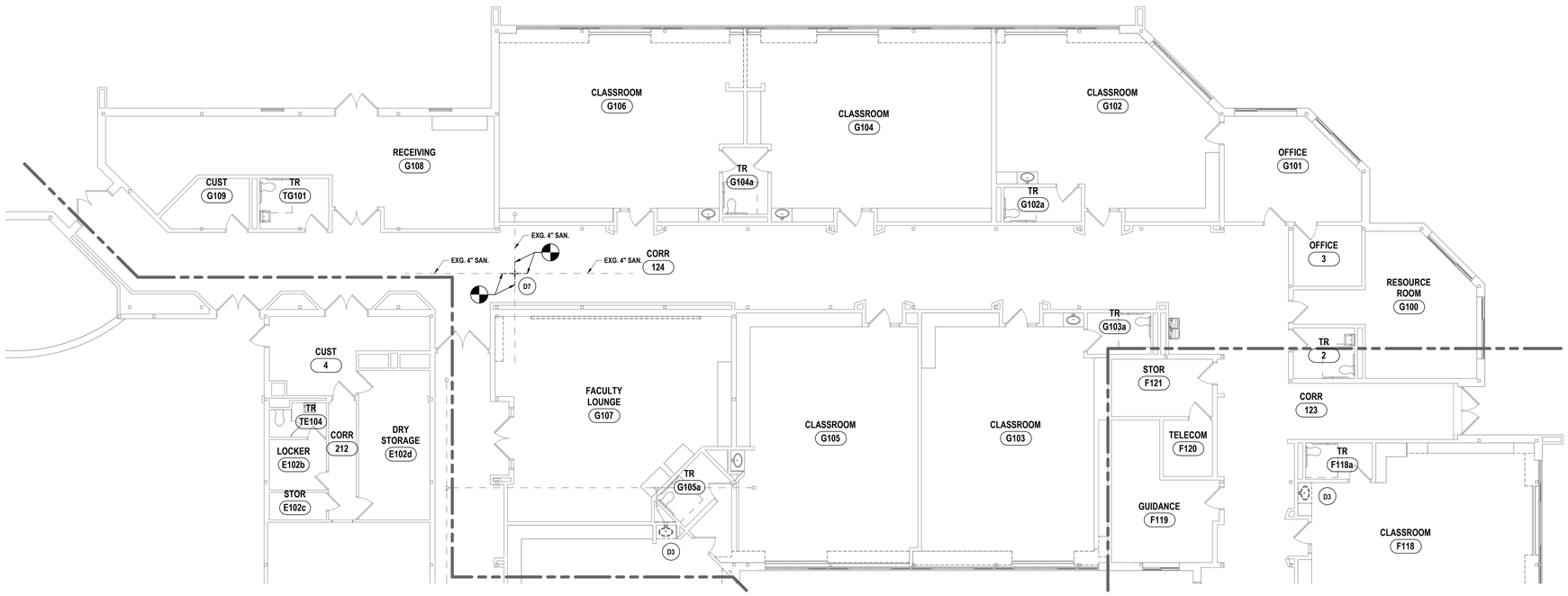
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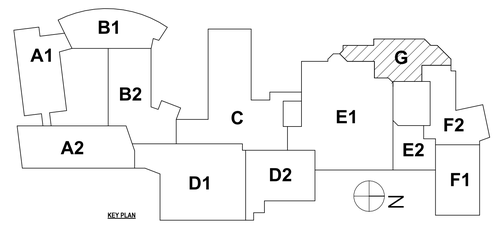
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1 FIRST FLOOR DEMOLITION PLAN - AREA G
1/8" = 1'-0"



KEY PLAN

DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	CD

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#	DATE:	REVISION:
1	10/09/2026	ISSUED FOR BID

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WWW.HUNT-EAS.COM 607 - 358 - 1000
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131494-1

FIRST FLOOR DEMOLITION PLAN - AREA G

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

BR-P0.8

PROJECT NO: 2012-254

SED.# 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

GENERAL NOTES - PLUMBING

REFER TO BR-P0.1.

DEMOLITION NOTES - PLUMBING

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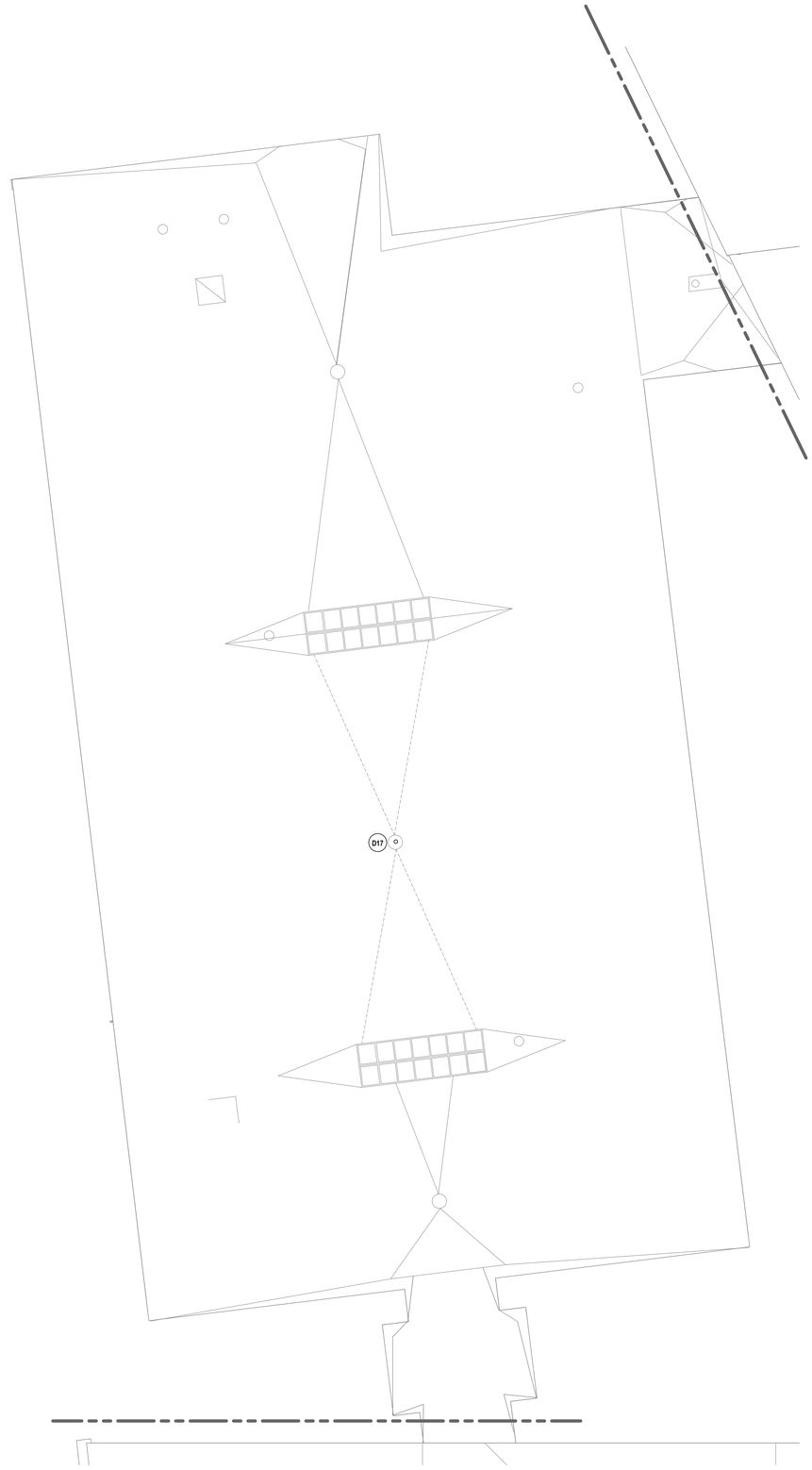
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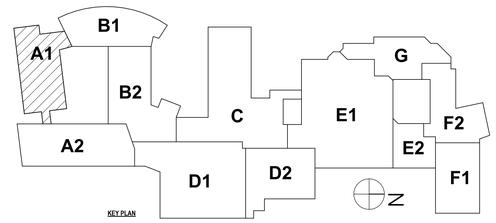
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1 ROOF DEMOLITION PLAN - AREA A1
1/8" = 1'-0"



KEY PLAN

DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	CD

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#	DATE:	REVISION:
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NY CERTIFICATE NO. 076802 PA CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220313464-1

ROOF DEMOLITION PLAN - AREA A1

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

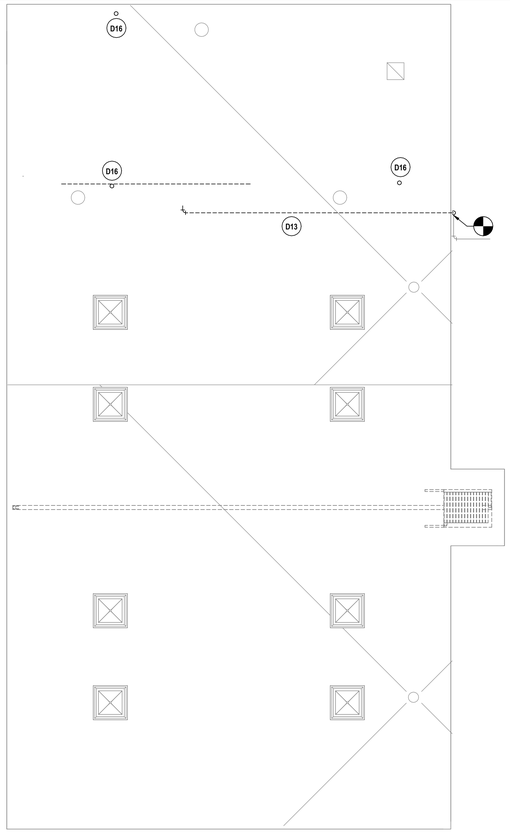
ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

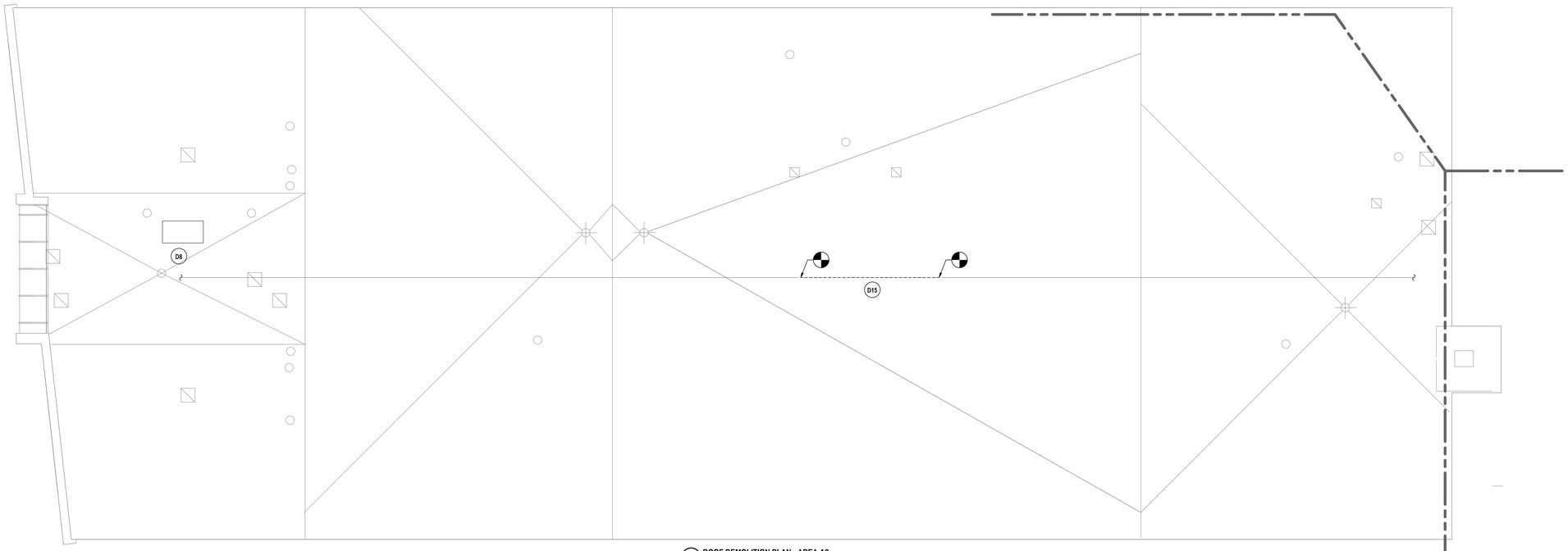
SED # 07-06-00-01-0-034-027, 07-06-00-01-0-004-028

BR-P0.9

PROJECT NO: 2012-254



2 ROOF DEMOLITION PLAN - AREA E1
1/8" = 1'-0"



1 ROOF DEMOLITION PLAN - AREA A2
1/8" = 1'-0"

GENERAL NOTES - PLUMBING

REFER TO BR-P0.1.

DEMOLITION NOTES - PLUMBING

D1 DISCONNECT AND REMOVE WATER CLOSET AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

D2 DISCONNECT AND REMOVE LAVATORY AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, HOT WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

D3 DISCONNECT AND REMOVE SINK AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, HOT WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

D4 DISCONNECT AND REMOVE URINAL AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

D5 DISCONNECT AND REMOVE MOP SINK AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, HOT WATER, SANITARY AND VENT PIPING BACK TO MAIN. PREPARE FOR RECONNECTION IN NEW WORK.

D6 DISCONNECT AND REMOVE WATER COOLER AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY. DISCONNECT AND REMOVE COLD WATER, SANITARY AND VENT PIPING BACK TO MAIN AND CAP.

D7 DISCONNECT AND REMOVE SANITARY PIPING AT POINTS INDICATED. PREPARE FOR RECONNECTION IN NEW WORK.

D8 DISCONNECT AND REMOVE GAS FROM AIR HANDLING UNIT. PREPARE FOR RECONNECTION IN NEW WORK. COORDINATE WITH OTHER TRADES.

D9 DICONNECT AND REMOVE SINK AND ALL ASSOCIATED ACCESSORIES. DISCONNECT AND REMOVE COLD WATER AND HOT WATER PIPING BACK TO ABOVE CEILING AND CAP. DISCONNECT AND REMOVE SANITARY PIPING TO BELOW SLAB AND CAP. DISCONNECT AND REMOVE VENT PIPING TO ABOVE CEILING AND CAP.

D10 DISCONNECT AND REMOVE PIZZA OVEN AND ALL ASSOCIATED ACCESSORIES. DISCONNECT AND REMOVE GAS PIPING TO ABOVE CEILING AND CAP.

D11 DISCONNECT AND REMOVE FLOOR DRAIN AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY, DISCONNECT AND REMOVE SANITARY PIPING TO BELOW SLAB AND CAP.

D12 DISCONNECT COLD WATER AND HOT WATER PIPING TO POINTS INDICATED. PREPARE FOR RECONNECTION IN NEW WORK.

D13 DISCONNECT GAS PIPING AND ALL ASSOCIATED ACCESSORIES ON UPPER ROOF TO LOWER ROOF AT POINT INDICATED AND CAP.

D14 DISCONNECT AND REMOVE WATER CLOSET AND LAVATORY IN ITS ENTIRETY. DISCONNECT COLD WATER, HOT WATER AND SANITARY PIPING. PREPARE FOR REINSTALLATION IN NEW WORK. ALTERNATE #10.

D15 DISCONNECT AND REMOVE GAS AT POINTS INDICATED. PREPARE FOR RELOCATION IN NEW WORK.

D16 DISCONNECT AND REMOVE VENT THROUGH ROOF DOWN TO BELOW DECK. PREPARE FOR RECONNECTION IN NEW WORK.

D17 DISCONNECT AND REMOVE ROOF DRAIN AND ALL ASSOCIATED ACCESSORIES TO BELOW DECK AND CAP. PREPARE FOR RECONNECTION IN NEW WORK.

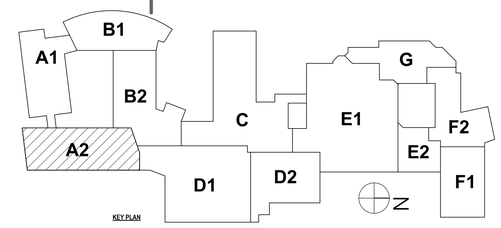
D18 DISCONNECT AND REMOVE WATER HEATER AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY.

D19 DISCONNECT AND REMOVE STORAGE TANK AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY.

D20 DISCONNECT AND REMOVE GAS PIPING AND ALL ASSOCIATED ACCESSORIES TO POINTS INDICATED AND CAP AT FLOOR LEVEL.

D21 DISCONNECT AND REMOVE COLD WATER, HOT WATER AND HOT WATER RECIRC AND ALL ASSOCIATED ACCESSORIES IN ITS ENTIRETY IN THE MEZZANINE TO POINTS INDICATED ON FLOOR BELOW

D22 DISCONNECT AND REMOVE SANITARY PIPING AT POINTS INDICATED, CAP ON THE D104 SIDE. PREPARE FOR RECONNECTION ON THE D105 SIDE. ALTERNATE #9.



KEY PLAN

DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	CD

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1	10/09/2026	ISSUED FOR BID

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ROOF DEMOLITION PLANS - AREA A2 AND E1

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED.#: 07-06-00-01-0-004-027, 07-06-00-01-0-004-028

BR-P0.10

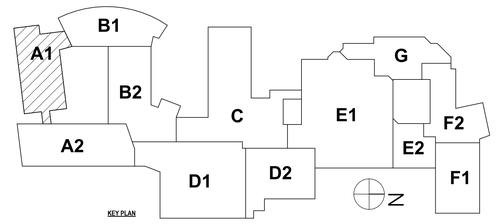
PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

REFER TO BR-P0.1.



1 FIRST FLOOR SANITARY PLAN - AREA A1
1/8" = 1'-0"



KEY PLAN

DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	CD

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FIRST FLOOR SANITARY PLAN - AREA A1

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P1.1

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

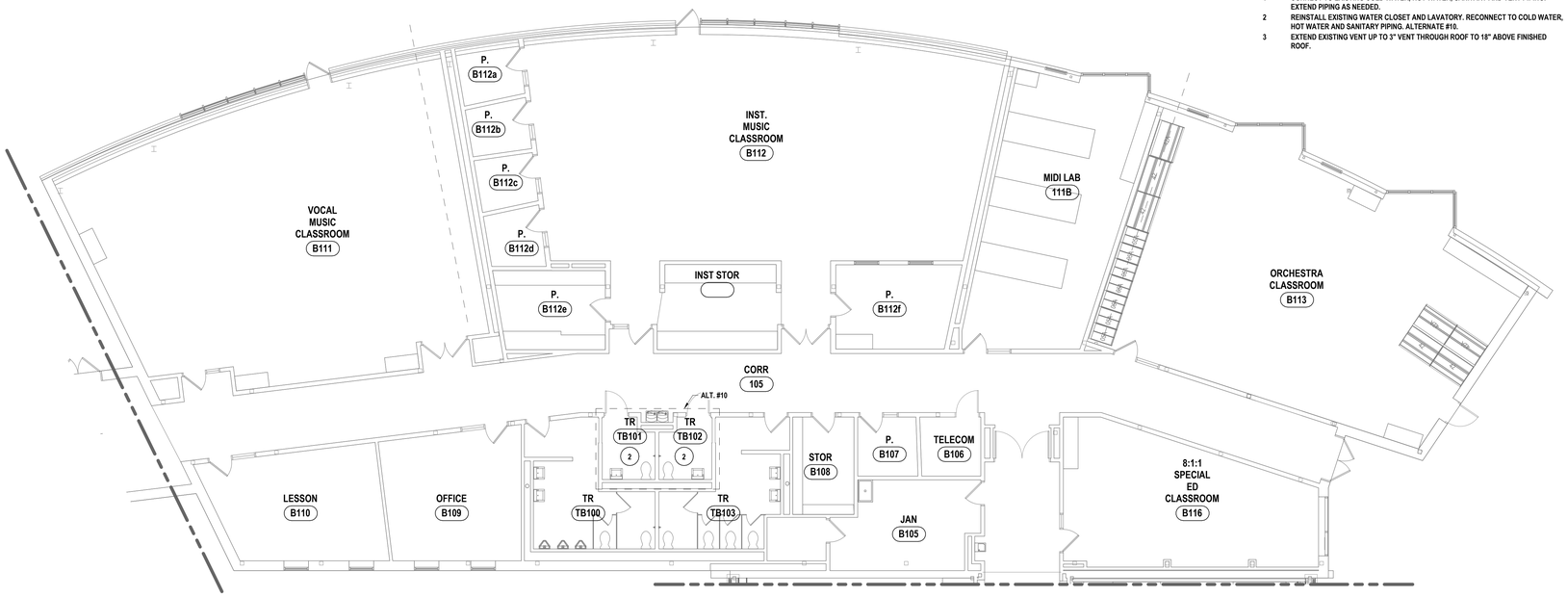
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CONSTRUCTION NOTES - PLUMBING

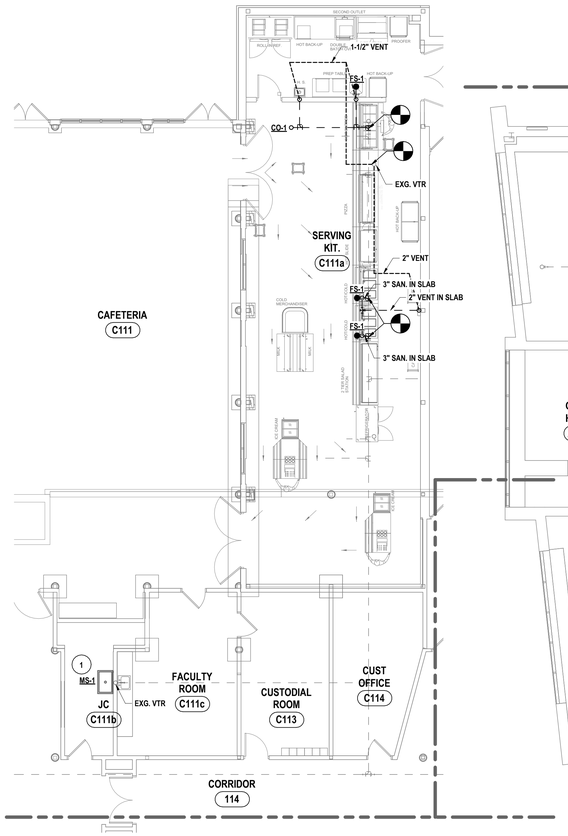
1 CONNECT TO EXISTING COLD WATER, HOT WATER, SANITARY AND VENT PIPING. EXTEND PIPING AS NEEDED.

2 REINSTALL EXISTING WATER CLOSET AND LAVATORY. RECONNECT TO COLD WATER, HOT WATER AND SANITARY PIPING. ALTERNATE #10.

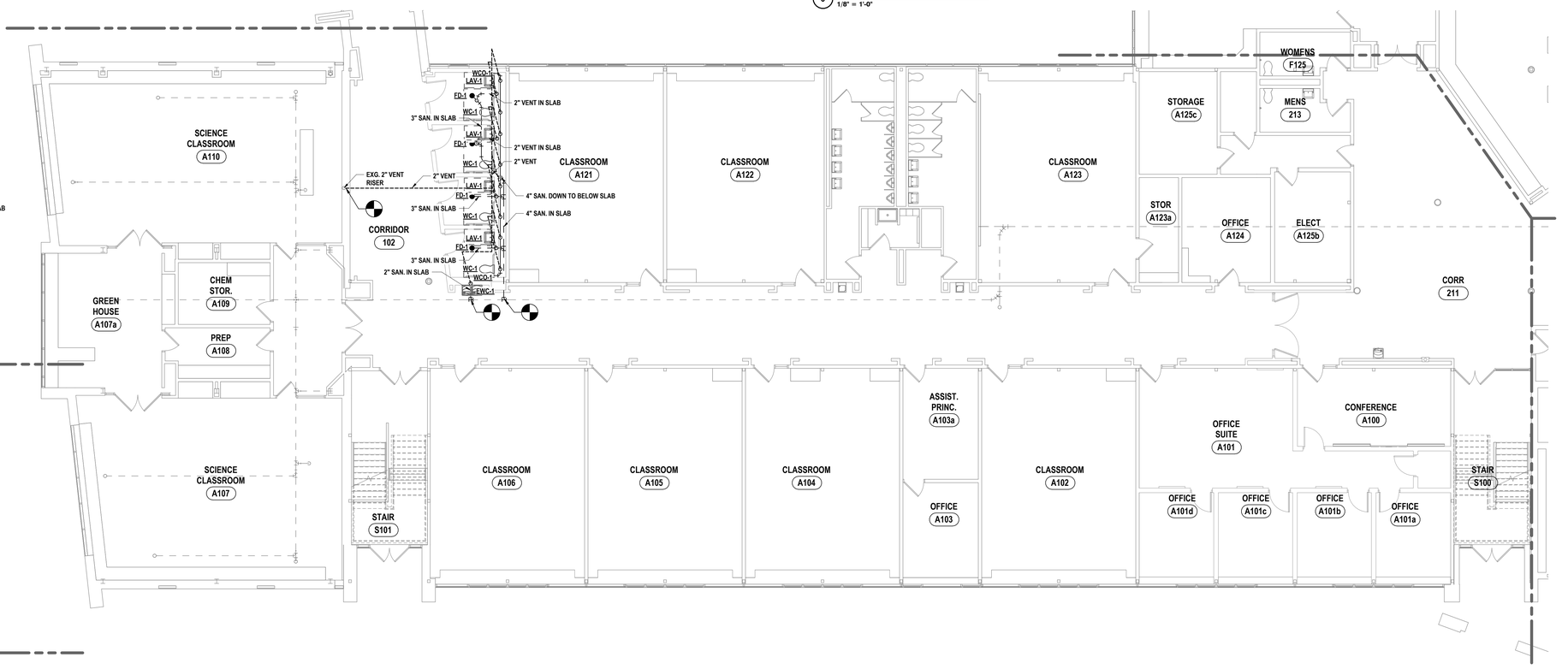
3 EXTEND EXISTING VENT UP TO 3" VENT THROUGH ROOF TO 18" ABOVE FINISHED ROOF.



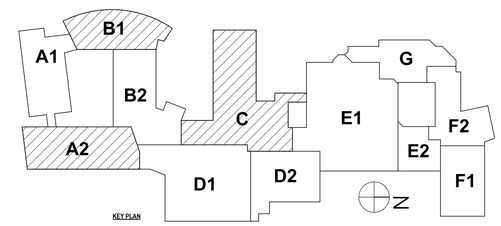
3 FIRST FLOOR SANITARY PLAN - AREA B1
1/8" = 1'-0"



2 FIRST FLOOR SANITARY PLAN - AREA C
1/8" = 1'-0"



1 FIRST FLOOR SANITARY PLAN - AREA A2
1/8" = 1'-0"



DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	DD

#	DATE:	REVISION:
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FIRST FLOOR SANITARY PLAN - AREAS A2, B1 AND C

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

BR-P1.2

PROJECT NO: 2012-254

BED#: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

GENERAL NOTES - PLUMBING

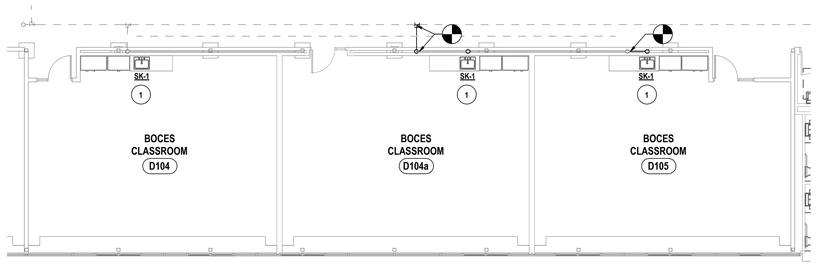
REFER TO BR-P0.1.

CONSTRUCTION NOTES - PLUMBING

1 CONNECT TO EXISTING COLD WATER, HOT WATER, SANITARY AND VENT PIPING. EXTEND PIPING AS NEEDED.

2 REINSTALL EXISTING WATER CLOSET AND LAVATORY. RECONNECT TO COLD WATER, HOT WATER AND SANITARY PIPING. ALTERNATE #10.

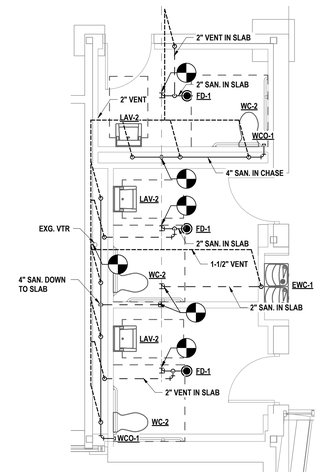
3 EXTEND EXISTING VENT UP TO 3" VENT THROUGH ROOF TO 18" ABOVE FINISHED ROOF.



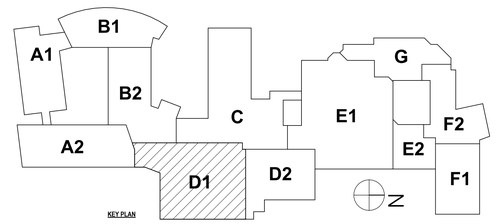
3 FIRST FLOOR SANITARY PLAN - AREA D1 ALTERNATE #9
1/8" = 1'-0"



2 FIRST FLOOR SANITARY PLAN - AREA D1
1/8" = 1'-0"



1 FIRST FLOOR SANITARY PLAN - AREA D1 - Callout 1
1/4" = 1'-0"



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CHECKED BY:	JDG
DATE:	07/24/2026
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FIRST FLOOR SANITARY PLAN - AREA D1

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

BR-P1.3

PROJECT NO: 2012-254

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

GENERAL NOTES - PLUMBING

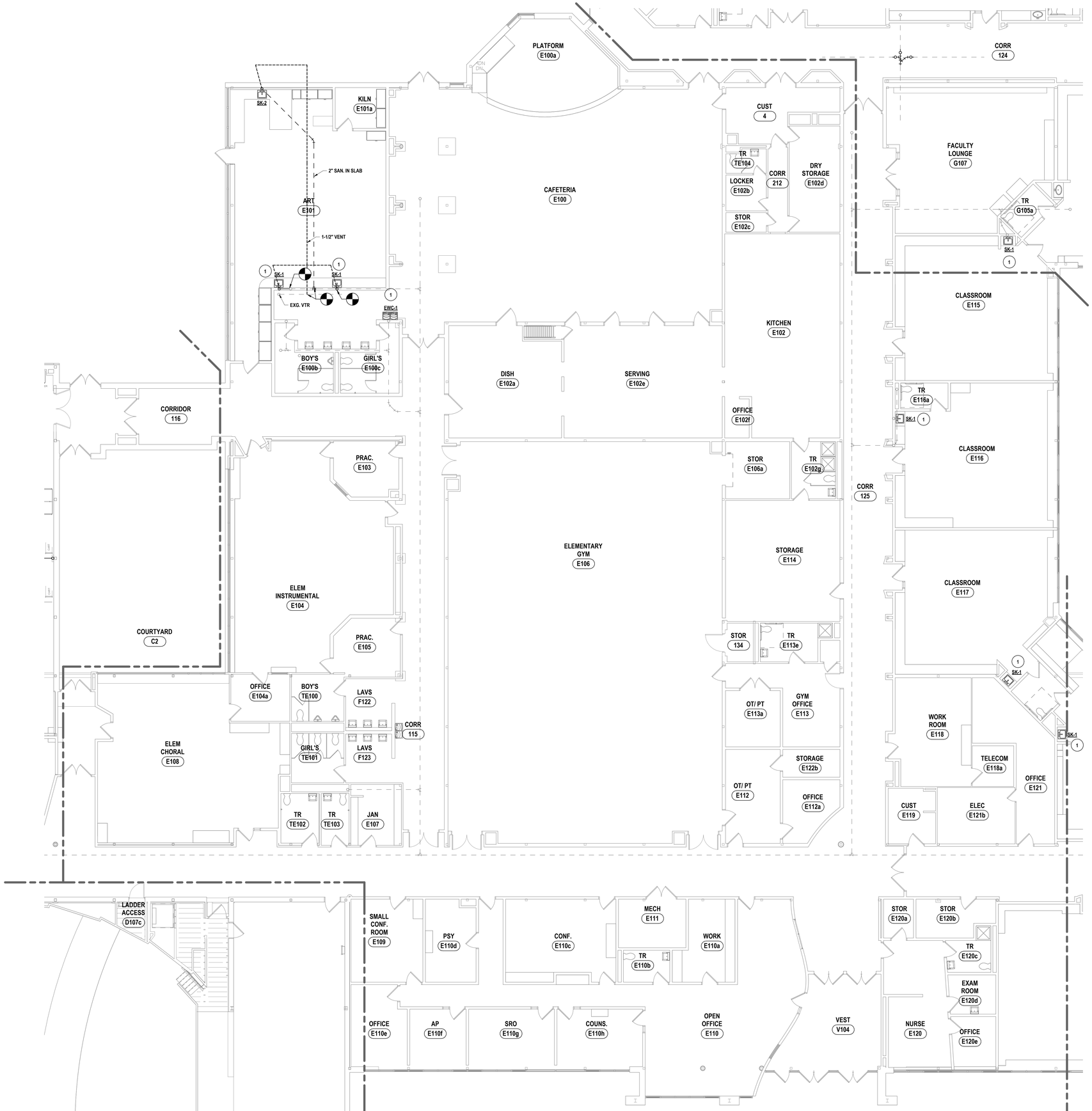
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CONSTRUCTION NOTES - PLUMBING

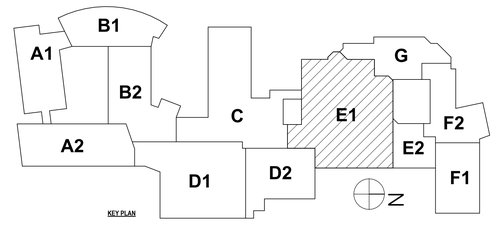
1 CONNECT TO EXISTING COLD WATER, HOT WATER, SANITARY AND VENT PIPING. EXTEND PIPING AS NEEDED.

2 REINSTALL EXISTING WATER CLOSET AND LAVATORY. RECONNECT TO COLD WATER, HOT WATER AND SANITARY PIPING. ALTERNATE #10.

3 EXTEND EXISTING VENT UP TO 3" VENT THROUGH ROOF TO 18" ABOVE FINISHED ROOF.



1 FIRST FLOOR SANITARY PLAN - AREA E1
1/8" = 1'-0"



KEY PLAN

DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131464-1

FIRST FLOOR SANITARY PLAN - AREA E1

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED#: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P1.4

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

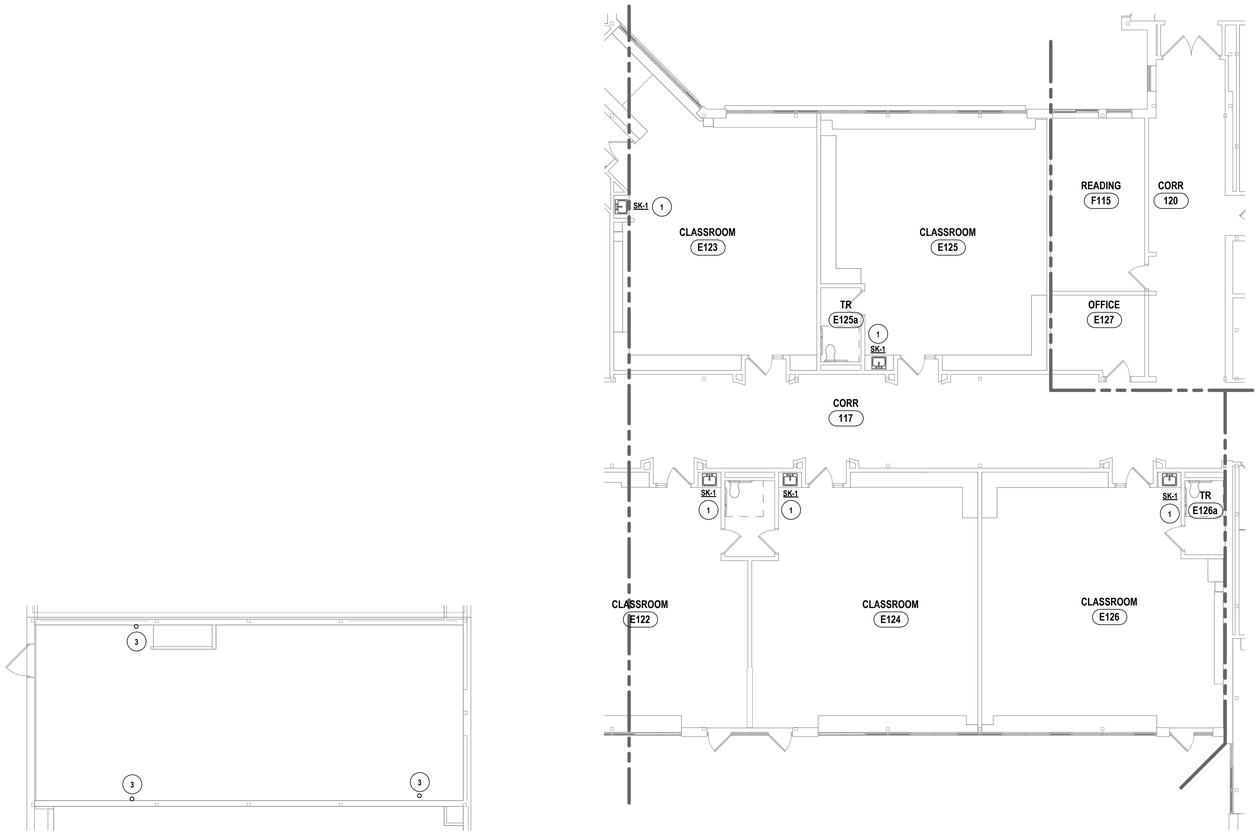
REFER TO BR-P0.1.

CONSTRUCTION NOTES - PLUMBING

1 CONNECT TO EXISTING COLD WATER, HOT WATER, SANITARY AND VENT PIPING. EXTEND PIPING AS NEEDED.

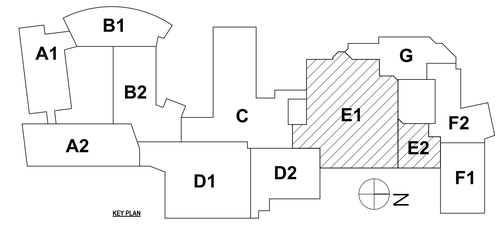
2 REINSTALL EXISTING WATER CLOSET AND LAVATORY. RECONNECT TO COLD WATER, HOT WATER AND SANITARY PIPING. ALTERNATE #10.

3 EXTEND EXISTING VENT UP TO 3" VENT THROUGH ROOF TO 18" ABOVE FINISHED ROOF.



1 FIRST FLOOR SANITARY PLAN - AREA E2
1/8" = 1'-0"

2 MEZZANINE VENT PLAN
1/8" = 1'-0"



KEY PLAN

DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	CD

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#	DATE:	REVISION:
1	10/09/2026	ISSUED FOR BID

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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220313464-1

FIRST FLOOR SANITARY PLAN - AREA E2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P1.5

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

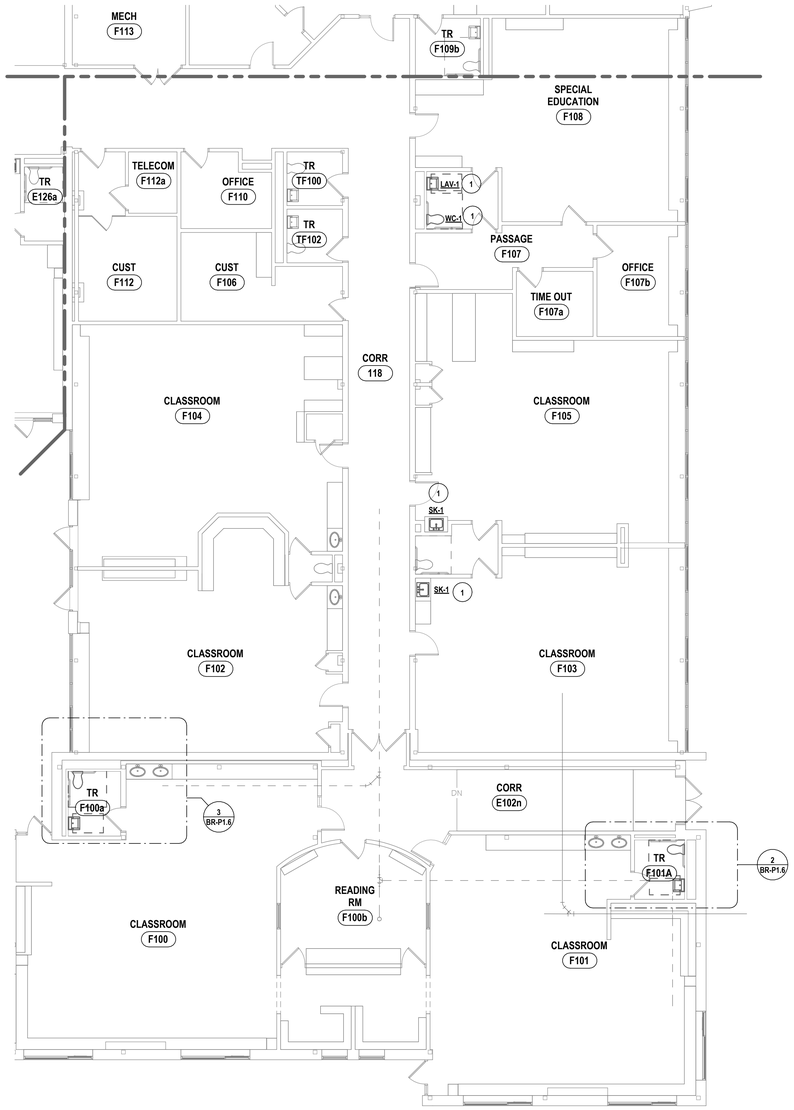
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CONSTRUCTION NOTES - PLUMBING

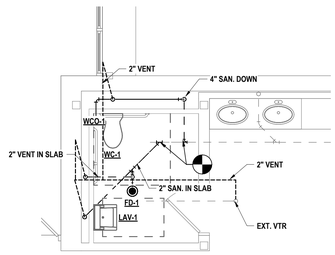
1 CONNECT TO EXISTING COLD WATER, HOT WATER, SANITARY AND VENT PIPING. EXTEND PIPING AS NEEDED.

2 REINSTALL EXISTING WATER CLOSET AND LAVATORY. RECONNECT TO COLD WATER, HOT WATER AND SANITARY PIPING. ALTERNATE #10.

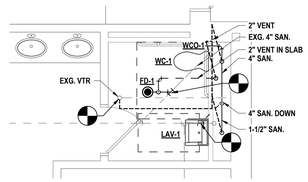
3 EXTEND EXISTING VENT UP TO 3" VENT THROUGH ROOF TO 18" ABOVE FINISHED ROOF.



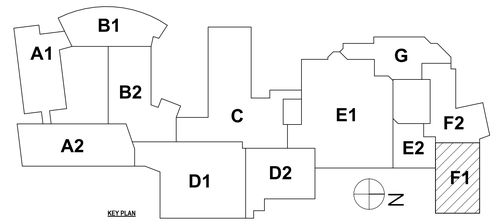
1 FIRST FLOOR SANITARY PLAN - AREA F1
1/8" = 1'-0"



3 TR F100A SANITARY PLAN
1/4" = 1'-0"



2 TR F101A SANITARY PLAN
1/4" = 1'-0"



KEY PLAN

DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	CD

#	DATE:	REVISION:
1	10/09/2026	ISSUED FOR BID

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NY CERTIFICATE NO. 0818220 PA CERTIFICATE NO. TSC220313464-1

FIRST FLOOR SANITARY PLAN - AREA F1

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

BR-P1.6

PROJECT NO: 2012-254

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

GENERAL NOTES - PLUMBING

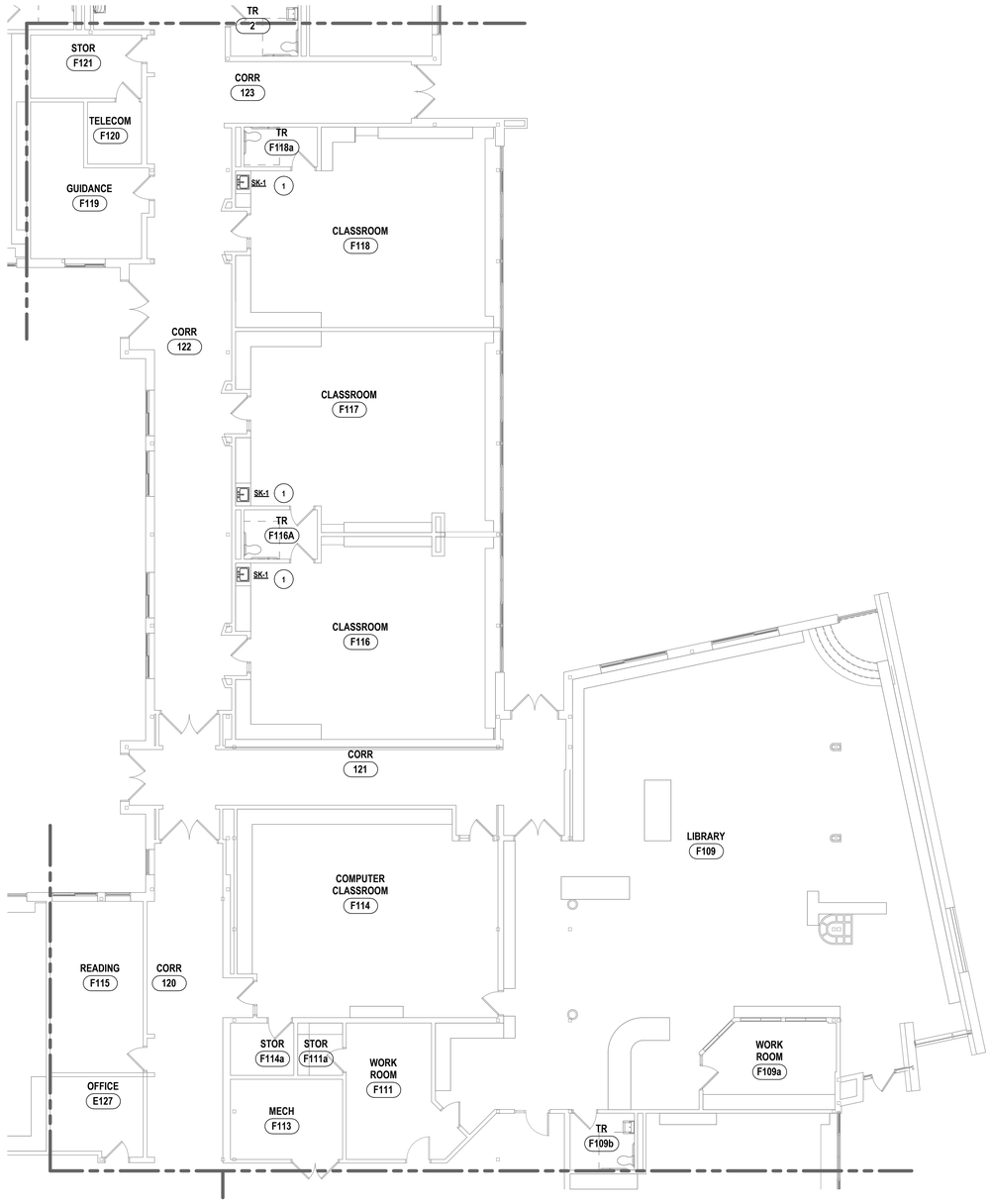
REFER TO BR-P0.1.

CONSTRUCTION NOTES - PLUMBING

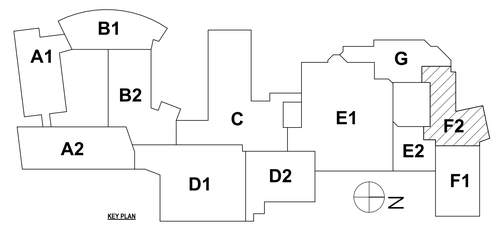
1 CONNECT TO EXISTING COLD WATER, HOT WATER, SANITARY AND VENT PIPING. EXTEND PIPING AS NEEDED.

2 REINSTALL EXISTING WATER CLOSET AND LAVATORY. RECONNECT TO COLD WATER, HOT WATER AND SANITARY PIPING. ALTERNATE #10.

3 EXTEND EXISTING VENT UP TO 3" VENT THROUGH ROOF TO 18" ABOVE FINISHED ROOF.



1 FIRST FLOOR SANITARY PLAN - AREA F2
1/8" = 1'-0"



KEY PLAN

DRAWN BY:	CJH
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DATE:	07/24/2026
PHASE:	CD

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1	10/09/2026	ISSUED FOR BID

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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131464-1

FIRST FLOOR SANITARY PLAN - AREA F2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P1.7

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

REFER TO BR-P0.1.

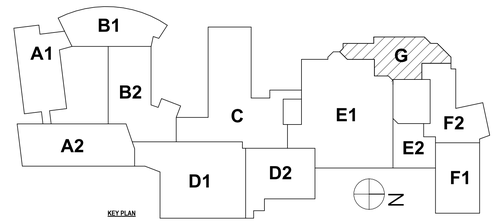
CONSTRUCTION NOTES - PLUMBING

1 CONNECT TO EXISTING COLD WATER, HOT WATER, SANITARY AND VENT PIPING. EXTEND PIPING AS NEEDED.

2 REINSTALL EXISTING WATER CLOSET AND LAVATORY. RECONNECT TO COLD WATER, HOT WATER AND SANITARY PIPING. ALTERNATE #10.

3 EXTEND EXISTING VENT UP TO 3" VENT THROUGH ROOF TO 18" ABOVE FINISHED ROOF.

1 FIRST FLOOR SANITARY PLAN - AREA G
1/8" = 1'-0"



KEY PLAN

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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220313464-1

FIRST FLOOR SANITARY PLAN - AREA G

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P1.8

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

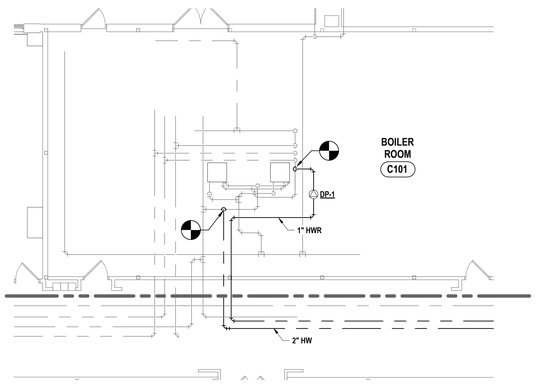
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CONSTRUCTION NOTES - PLUMBING

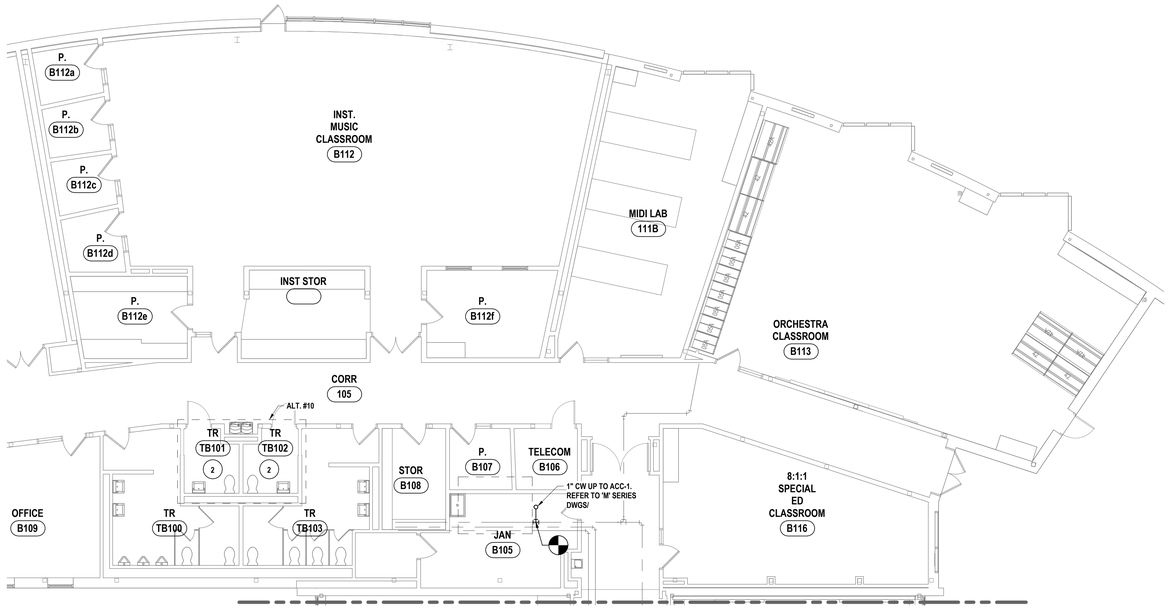
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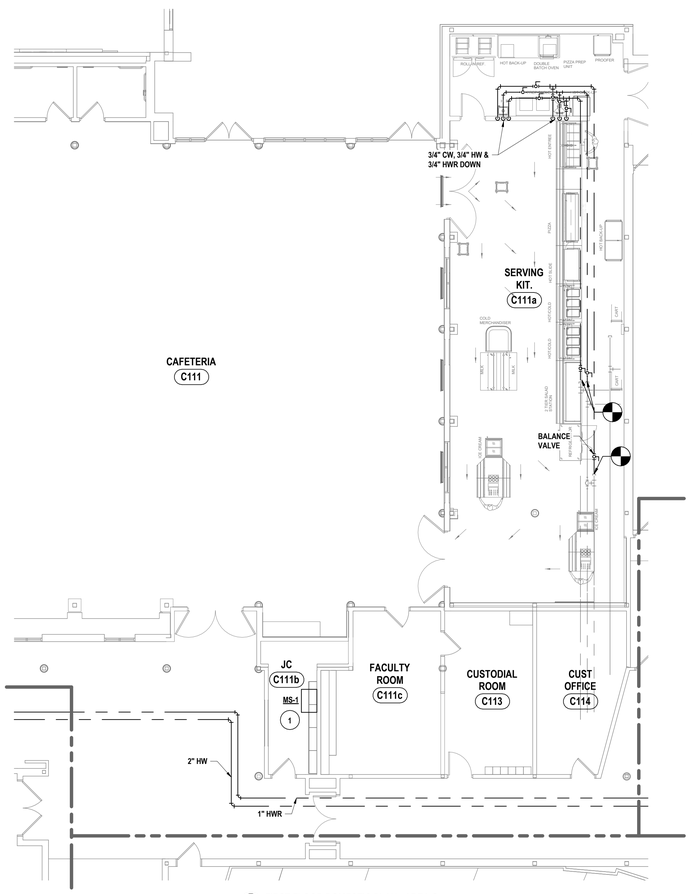
3 EXTEND EXISTING VENT UP TO 3" VENT THROUGH ROOF TO 18" ABOVE FINISHED ROOF.



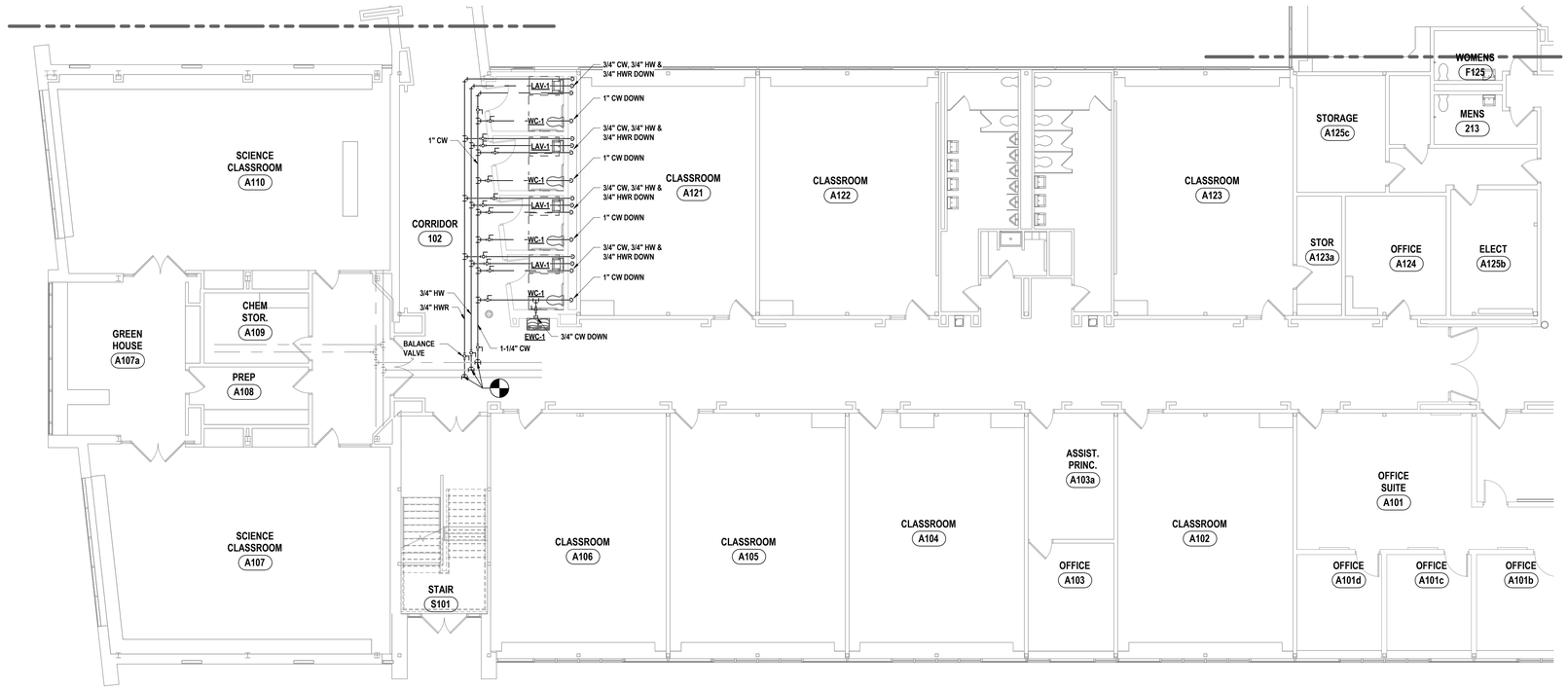
4 BOILER ROOM DOMESTIC PLAN
1/8" = 1'-0"



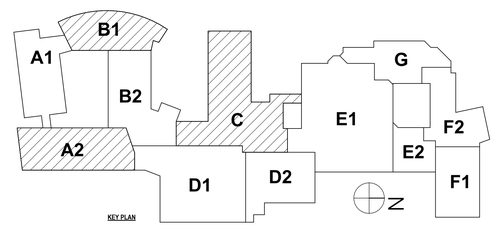
3 FIRST FLOOR DOMESTIC PLAN - AREA B
1/8" = 1'-0"



2 FIRST FLOOR DOMESTIC PLAN - AREA C
1/8" = 1'-0"



1 FIRST FLOOR DOMESTIC PLAN - AREA A2
1/8" = 1'-0"



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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220313464-1

FIRST FLOOR DOMESTIC PLAN - AREAS A2, B1 AND C

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED#: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P2.1

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

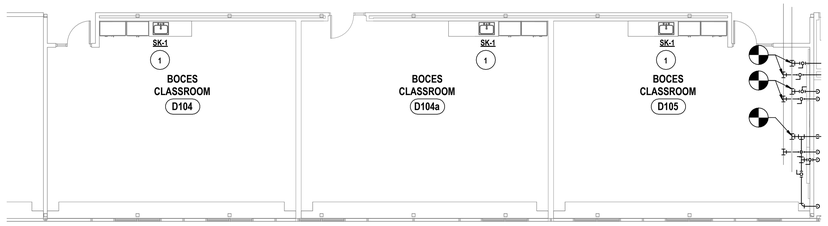
REFER TO BR-P0.1.

CONSTRUCTION NOTES - PLUMBING

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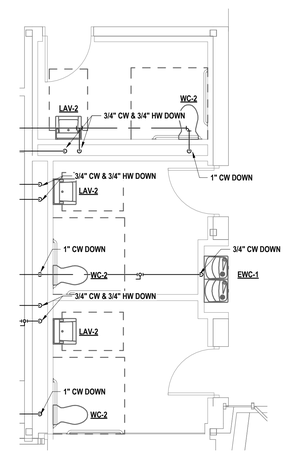


2 FIRST FLOOR DOMESTIC PLAN - AREA D1 ALTERNATE #9
1/8" = 1'-0"

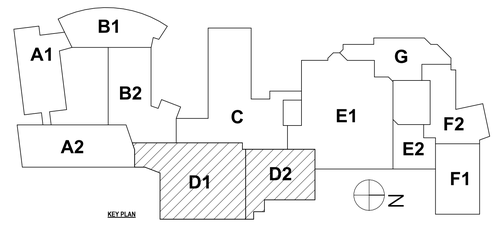


1 FIRST FLOOR DOMESTIC PLAN - AREA D1
1/8" = 1'-0"

4 FIRST FLOOR DOMESTIC PLAN - AREA D2
1/8" = 1'-0"



3 FIRST FLOOR DOMESTIC PLAN - AREA D1 - Callout 1
1/4" = 1'-0"



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FIRST FLOOR DOMESTIC PLAN - AREA D1 AND D2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED#: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P2.2

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

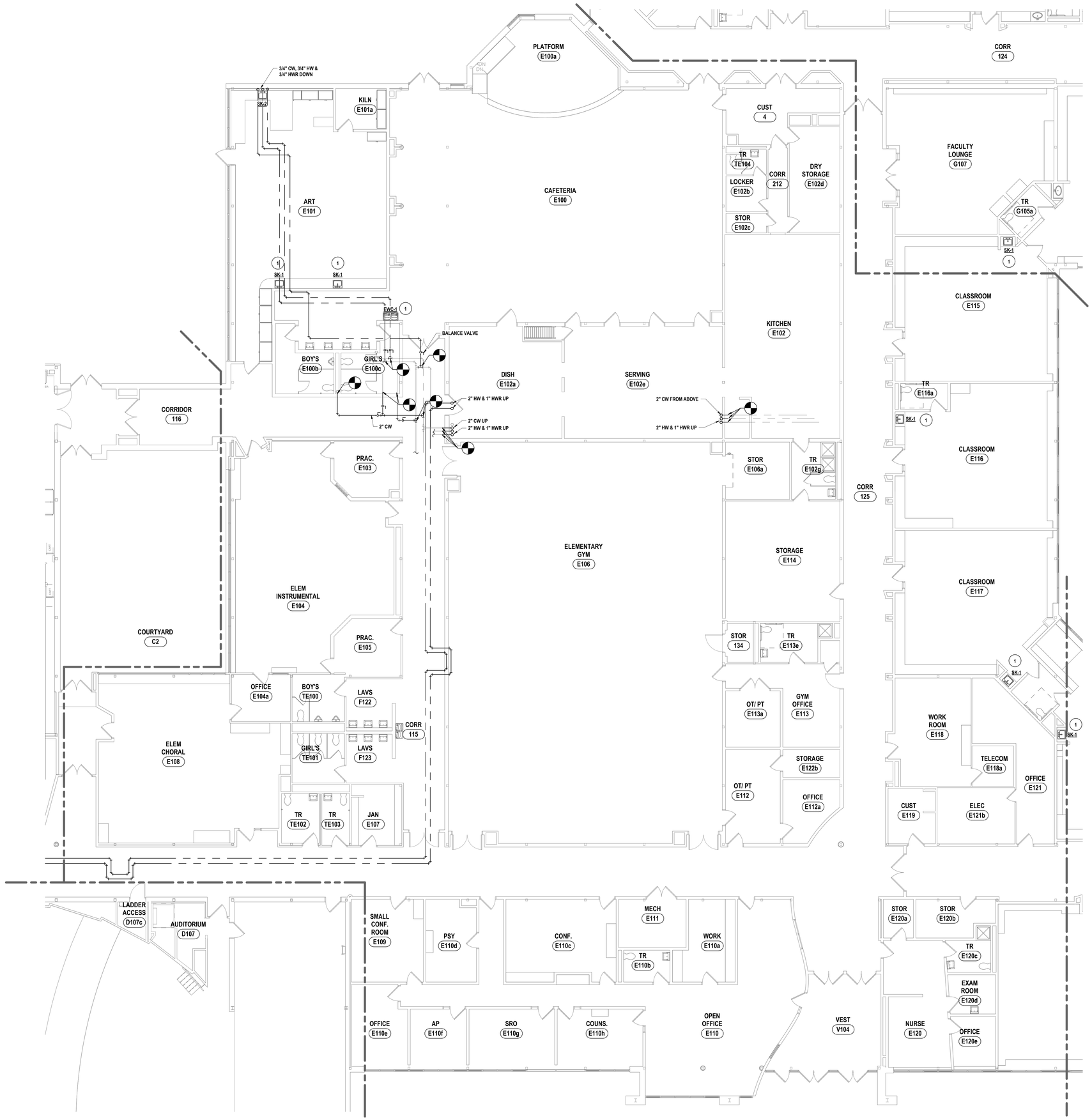
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CONSTRUCTION NOTES - PLUMBING

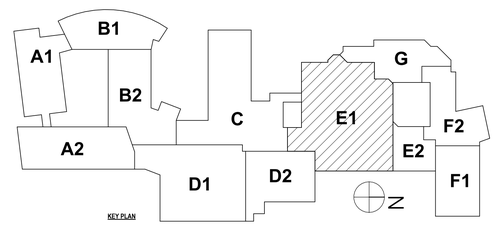
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1 FIRST FLOOR DOMESTIC PLAN - AREA E1
1/8" = 1'-0"



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FIRST FLOOR DOMESTIC PLAN - AREA E1

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P2.3

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

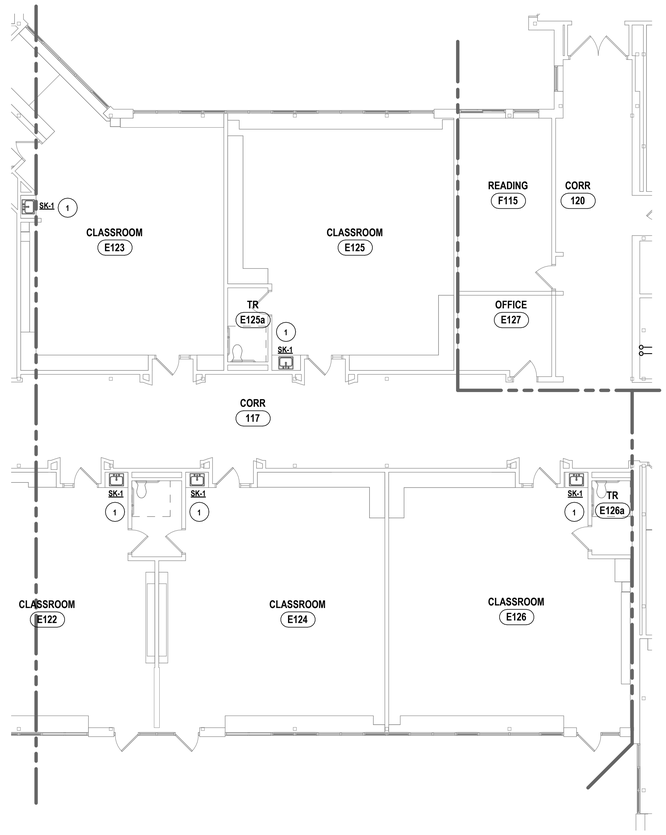
REFER TO BR-P0.1.

CONSTRUCTION NOTES - PLUMBING

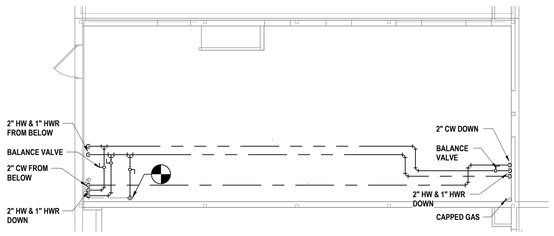
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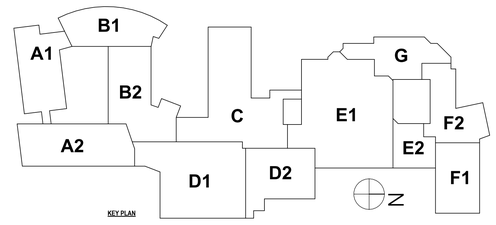
3 EXTEND EXISTING VENT UP TO 3" VENT THROUGH ROOF TO 18" ABOVE FINISHED ROOF.



1 FIRST FLOOR DOMESTIC PLAN - AREA E2
1/8" = 1'-0"



2 MEZZANINE DOMESTIC PLAN
1/8" = 1'-0"



KEY PLAN

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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220313494-1

FIRST FLOOR DOMESTIC PLAN - AREA E2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

BR-P2.4

PROJECT NO: 2012-254

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

GENERAL NOTES - PLUMBING

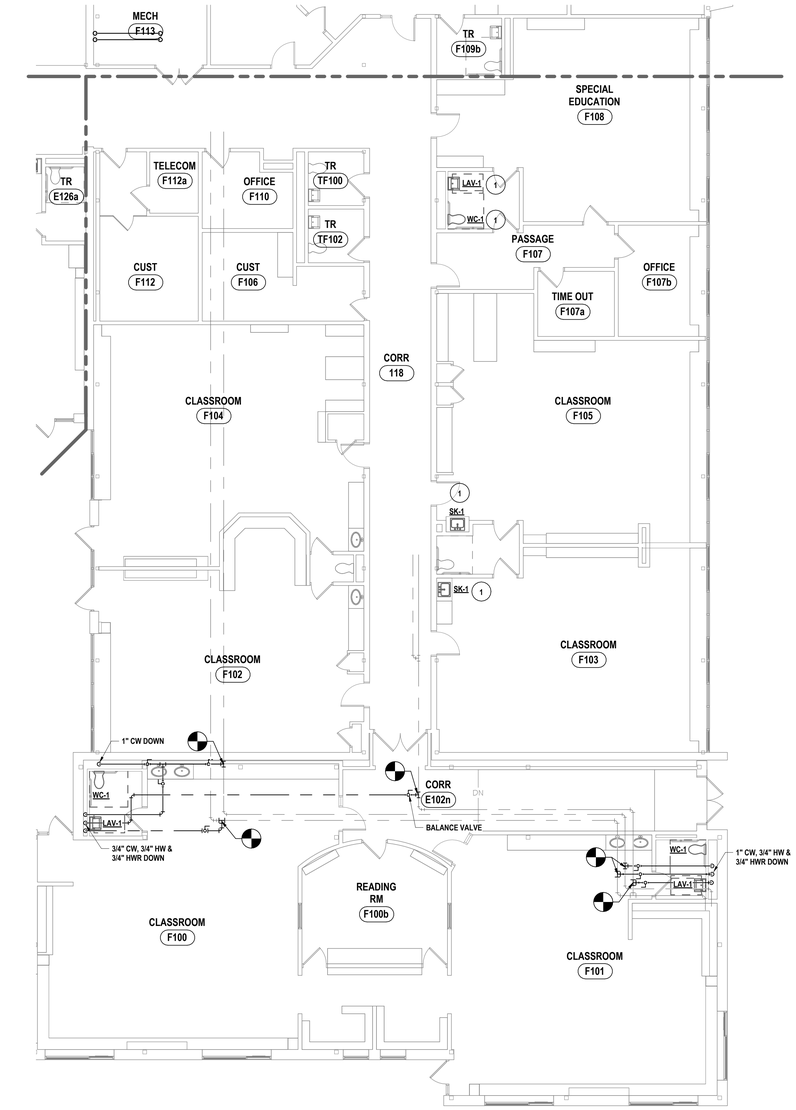
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CONSTRUCTION NOTES - PLUMBING

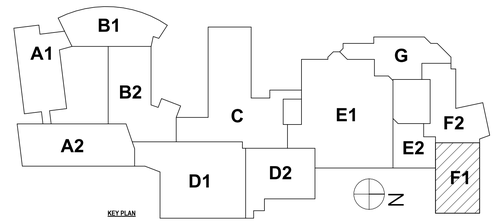
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3 EXTEND EXISTING VENT UP TO 3" VENT THROUGH ROOF TO 18" ABOVE FINISHED ROOF.



1 FIRST FLOOR DOMESTIC PLAN - AREA F1
1/8" = 1'-0"



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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131464-1

FIRST FLOOR DOMESTIC PLAN - AREA F1

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-P2.5

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

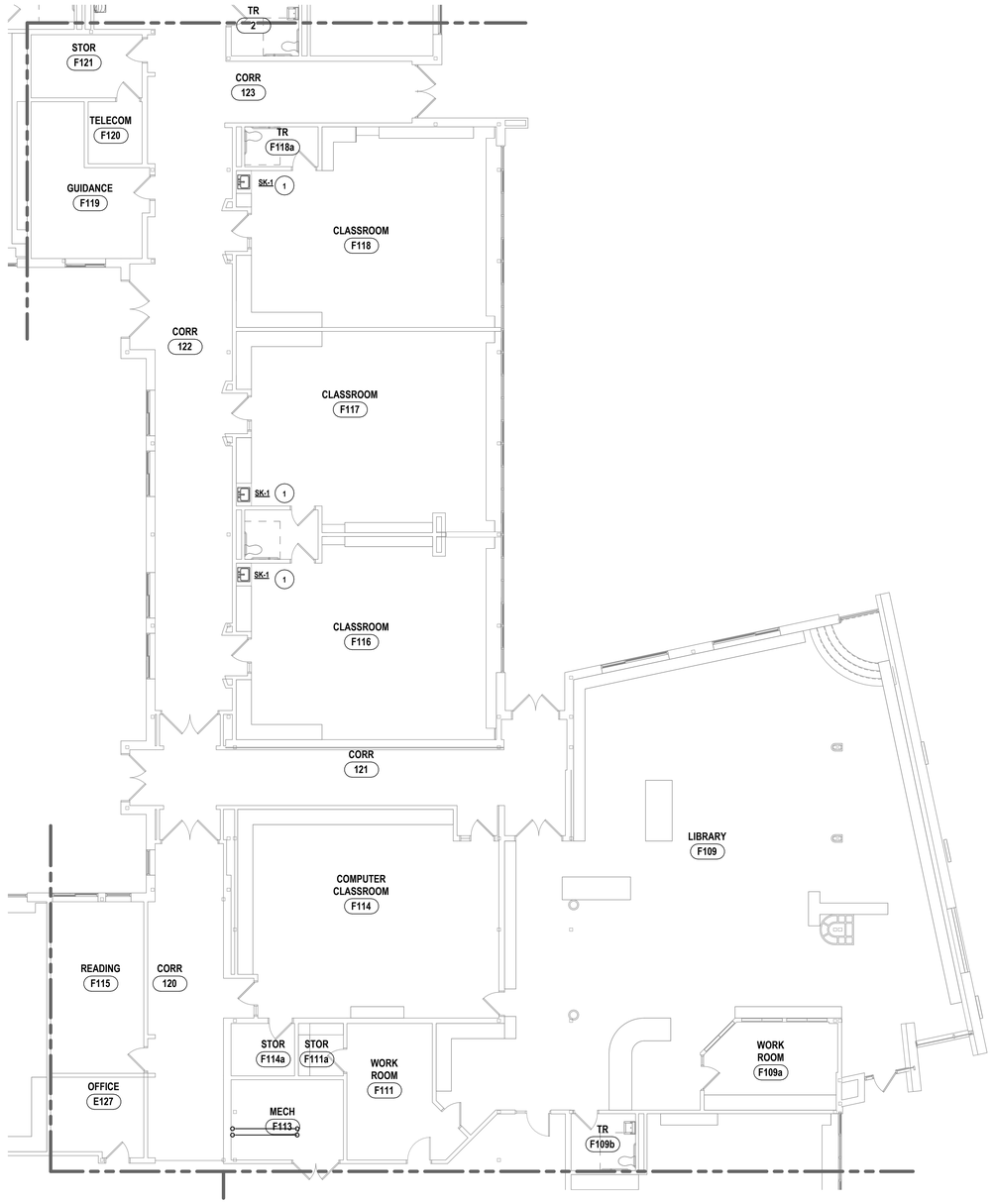
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CONSTRUCTION NOTES - PLUMBING

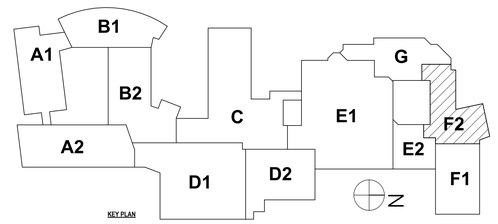
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3 EXTEND EXISTING VENT UP TO 3" VENT THROUGH ROOF TO 18" ABOVE FINISHED ROOF.



1 FIRST FLOOR DOMESTIC PLAN - AREA F2
1/8" = 1'-0"



KEY PLAN

SED # 07-06-00-01-0-034-027, 07-06-00-01-0-004-028

DRAWN BY: CJH
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NY CERTIFICATE NO. 075802 PE, LS, LA CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220313464-1

FIRST FLOOR DOMESTIC PLAN - AREA F2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

BR-P2.6

PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

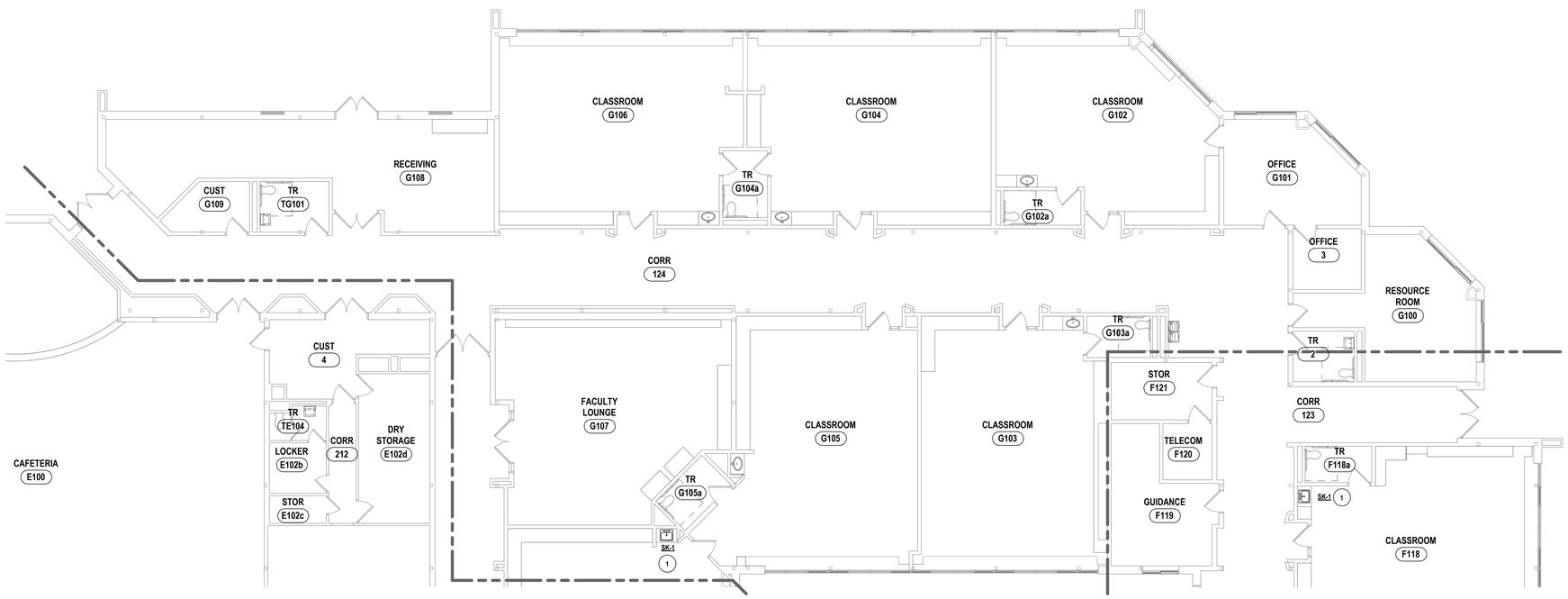
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CONSTRUCTION NOTES - PLUMBING

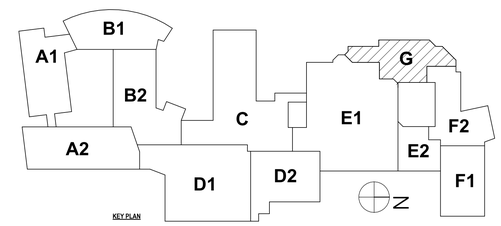
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1 FIRST FLOOR DOMESTIC PLAN - AREA G
1/8" = 1'-0"



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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220313464-1

FIRST FLOOR DOMESTIC PLAN - AREA G

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

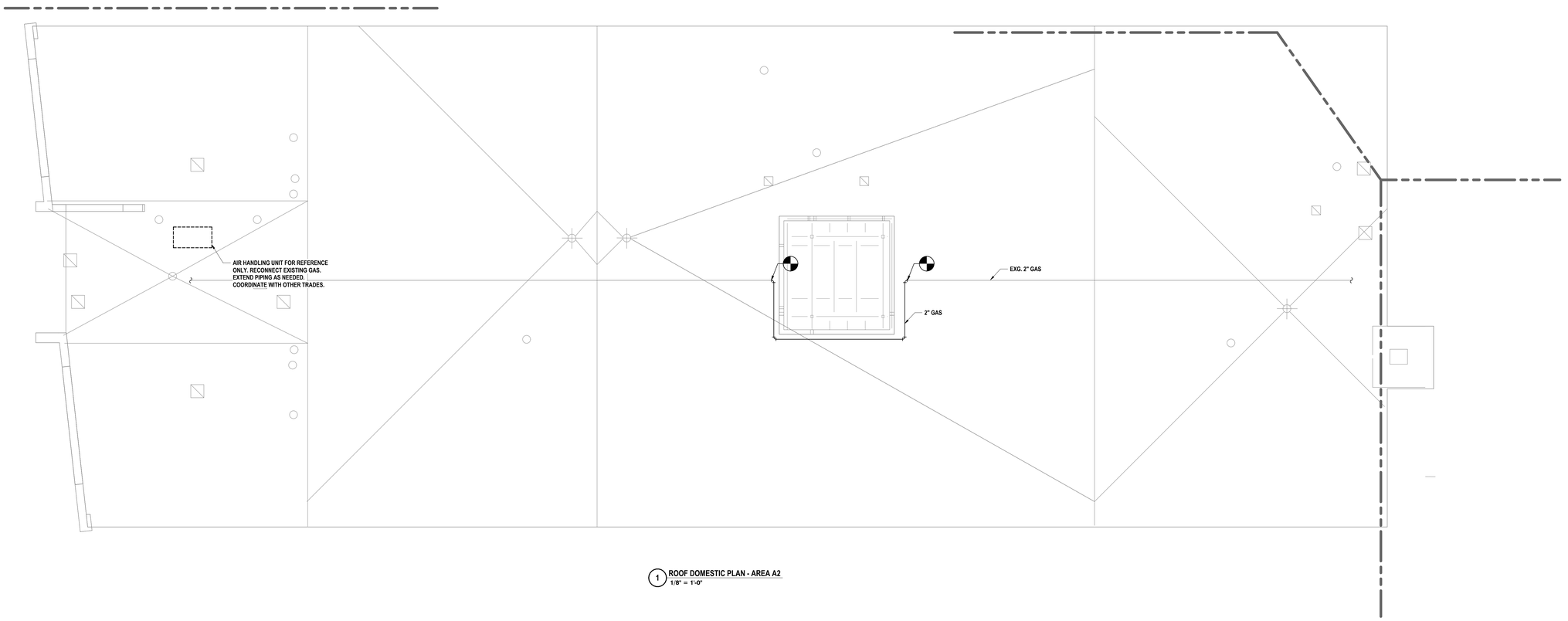
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BR-P2.7

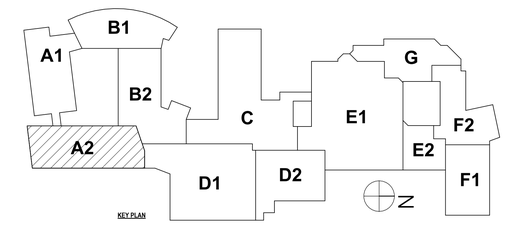
PROJECT NO: 2012-254

GENERAL NOTES - PLUMBING

REFER TO BR-P0.1.



1 ROOF DOMESTIC PLAN - AREA A2
1/8" = 1'-0"



KEY PLAN

DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	CD

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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131464-1

ROOF DOMESTIC PLAN - AREA A2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

BR-P2.8

PROJECT NO: 2012-254

SED.#: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

FIXTURE PIPE SIZES SCHEDULE

	COLD WATER	HOT WATER	SANITARY	VENT
WC	1"		4"	2"
LAV	1/2"	1/2"	1-1/2"	1-1/2"
MS	1/2"	1/2"	3"	2"
EWC	1/2"		1-1/2"	1-1/2"

NOTES: A. IF FIXTURE NUMBER IS NOT SPECIFICALLY STATED, PIPE SIZES PERTAIN TO ALL LISTINGS OF FIXTURE TYPE.

PLUMBING FIXTURE ELECTRICAL REQUIREMENTS SCHEDULE

NO.	TYPE	ELECTRICAL COMPONENT	VOLTS	PHASE	FULL LOAD AMPS	MINIMUM CIRCUIT AMPACITY	MAXIMUM OVER-CURRENT PROTECTION	POWER	RPM	GPM	HEAD FEET	REMARKS
WC-1	WATER CLOSET, ADA, WALL MOUNT WATER CLOSET, WALL MOUNT	FLUSHOMETER TRANSFORMER	120 OR 240	SINGLE	50 VA	NA	NA	NA	NA	NA	NA	NOTE A, D.
LAV-1	LAVATORY, ADA, WALL MOUNT LAVATORY, WALL MOUNT	FAUCET TRANSFORMER	120	SINGLE	2.0	300 MA	NA	NA	NA	NA	NA	NOTE B, D.
EWC-1	ELECTRIC WATER COOLER, TWO STATION, ADA, WALL MOUNT	OPERATING SYSTEM	115	SINGLE	4.0	NA	NA	370 WATTS	NA	NA	NA	NOTE D, E.
DP-1	DOMESTIC PUMP, HOT WATER RECIRCULATION	OPERATING SYSTEM	115	SINGLE	0.7	NA	NA	1/25 HP	2800	5	10	NOTE C, D, F.

NOTES:
A. PROVIDE PER MANUFACTURE, SOLENOID OPERATOR - 24V AC, 60 Hz, TRANSFORMER - SIMILAR TO SLOAN VALVE MODEL EL-154 (120 V). (ONE TRANSFORMER SERVES MAXIMUM 10 WATER CLOSETS/URINALS). TRANSFORMER INSTALLATION AND POWER BY ELECTRICAL CONTRACTOR, LOW VOLTAGE CONTROL WIRING BY PLUMBING CONTRACTOR.

B. PROVIDE TRANSFORMER - SIMILAR TO CHICAGO FAUCET MODEL 243.260.00.1 (HARD WIRED), (ONE TRANSFORMER SERVES MAXIMUM OF 8 FAUCETS). TRANSFORMER INSTALLATION AND POWER BY ELECTRICAL CONTRACTOR, LOW VOLTAGE CONTROL WIRING BY PLUMBING CONTRACTOR.

C. COORDINATE WIRING OF PUMP THRU AQUASTAT WITH ELECTRICAL CONTRACTOR.

D. COORDINATE POWER WITH ELECTRICAL CONTRACTOR.

E. ELECTRICAL CONTRACTOR TO PROVIDE RECEPTACLE. COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR.

F. FURNISHING AND WIRING OF DISCONNECT BY ELECTRICAL CONTRACTOR.

PLUMBING FIXTURE SCHEDULE

NO.	TYPE	MFG./MODEL	TRIM	REMARKS
LAV-1	LAVATORY, WALL MOUNT, ADA COMPLIANT, COLOR: WHITE	AMERICAN STANDARD 0356.421 (SINGLE HOLE)	FAUCET: MANUAL (METERED) CHICAGO 802-VE2805-665ABCP, 025 GALLON PER CYCLE (4" O.C. HOLES MOUNT)	PROVIDE METERING HANDLES, GRID DRAIN, P-TRAP, LEAD FREE SUPPLIES, LEAD FREE STOPS & ESCUTCHEON PLATES. PROVIDE OFFSET GRID DRAIN AND PIPE COVERS FOR ADA. SEE 'A' DRAWINGS FOR MOUNTING HEIGHT. TEMPERATURE LIMITING VALVES SET TO 100° F FOR ELEMENTARY SCHOOLS AND 110° F FOR SECONDARY SCHOOLS. NOTE A.
WC-1	WATER CLOSET, WALL MOUNT, ADA COMPLIANT, COLOR: WHITE	AMERICAN STANDARD 2257.101, 1.28 GPF 1-1/2 INCH TOP SPUD	FLUSH VALVE: MANUAL SLOAN ROYAL 111-1.28, 1.28 GPF	ELONGATED BOWL. PROVIDE ELONGATED SEAT SIMILAR TO BENEKE 527-SS, FLOOR MOUNTED CARRIER. SEE 'A' DRAWINGS FOR MOUNTING HEIGHT.
LAV-2	LAVATORY, WALL MOUNT, ADA COMPLIANT, COLOR: WHITE	AMERICAN STANDARD 0356.421 (SINGLE HOLE)	FAUCET: SENSORED (ELECTRIC) CHICAGO 116.101AB.1, 0.50 GPM	PROVIDE INFRARED FAUCET WITH 4 INCH COVER PLATE SIMILAR TO CHICAGO FAUCET MODEL 240.627.21.1, OFFSET GRID DRAIN, P-TRAP, LEAD FREE SUPPLIES, LEAD FREE STOPS, ESCUTCHEON PLATES AND PIPE COVERS. SEE 'A' DRAWINGS FOR MOUNTING HEIGHT. NOTE A, B, C.
WC-2	WATER CLOSET, WALL MOUNT, ADA COMPLIANT, COLOR: WHITE	AMERICAN STANDARD 2257.101, 1.28 GPF 1-1/2 INCH TOP SPUD	FLUSH VALVE: SENSORED (ELECTRIC) SLOAN ROYAL OPTIMA 111-1.28 ESS - TMO, 1.28 GPF, WITH TRUE MECHANICAL OVERRIDE FLUSH BUTTON	ELONGATED BOWL. PROVIDE ELONGATED SEAT SIMILAR TO BENEKE 527-SS, FLOOR MOUNTED CARRIER. SEE 'A' DRAWINGS FOR MOUNTING HEIGHT. NOTE A.
WCO-1	WALL CLEANOUT	ZURN Z1446		PROVIDE ACCESS COVER.
SK-1	SINK, SINGLE, ADA COMPLIANT, 5-1/2" DEEP, COUNTERTOP MOUNT	JUST SL-ADA-1921-A-GR (3 HOLES ON 4" CENTERS)	FAUCET: MANUAL DELTA DST-100, 1.80 GPM, (8" O.C. HOLES) STRAINER: JUST J-35	PROVIDE 4" WRISTBLADE HANDLES, GRID DRAIN, P-TRAP, LEAD FREE SUPPLIES, LEAD FREE STOPS & ESCUTCHEON PLATES.
SK-2	SINK, SINGLE, 10-1/8" DEEP, COUNTERTOP MOUNT	JUST SLX1921-A-J (3 HOLES ON 4" CENTERS)	FAUCET: MANUAL DELTA DST-100, 1.80 GPM, (8" O.C. HOLES) STRAINER: JUST J-35	PROVIDE 4" WRISTBLADE HANDLES, GRID DRAIN, P-TRAP, LEAD FREE SUPPLIES, LEAD FREE STOPS & ESCUTCHEON PLATES.
FD-1	FLOOR DRAIN, WITH TRAP PRIMER	ZURN ZN-415-B-P	FLUSH WITH FLOOR	PROVIDE NICKEL BRONZE STRAINER. REFER TO PLAN FOR PIPE SIZE. PROVIDE 1/2 INCH TRAP PRIMER CONNECTION. NOTE D, E.
EWC-1	ELECTRIC WATER COOLER, TWO STATION WITH SINGLE STATION BOTTLE FILLER, ADA COMPLIANT, WALL MOUNT	ELKAY EMABFTLBWSSK (NON-FILTERED) (BOTTLE FILLER ON LOWER UNIT)		PROVIDE LEAD FREE DESIGN, STAINLESS STEEL PANELS WITH FLEXI-GUARD BUBBLER, DIELECTRIC COUPLING, PLASTIC P-TRAP, LEAD FREE SUPPLY, LEAD FREE STOP, CANE APRON FOR UPPER UNIT SIMILAR TO ELKAY MODEL LKAPREZL. SEE 'A' DRAWINGS FOR MOUNTING HEIGHT. NOTE A.
MS-1	MOP SINK, WALL	ACORN ENGINEERING TSH-3624-SSC	FAUCET: CHICAGO 897-RCF (WALL MOUNT FITTINGS, CONCEALED SUPPLY)	PROVIDE MOP HOLDER AND HOSE BRACKET.
FS-1	FLOOR SINK, WITH SUMP RECEPTOR AND TRAP PRIMER	ZURN Z1900-ZN-P	FLUSH WITH FLOOR	PROVIDE NICKEL BRONZE GRATE. PROVIDE SUMP WITH DOME STRAINER. REFER TO PLAN FOR PIPE SIZE. PROVIDE 1/2 INCH TRAP PRIMER CONNECTION. NOTE D, E.
CO-1	CLEANOUT, INLINE	ZURN Z1449		REFER TO PLAN FOR PIPE SIZE.
DP-1	DOMESTIC PUMP, HOT WATER RECIRCULATION	ARMSTRONG ASTRO 30, BRONZE		PROVIDE LEAD FREE DESIGN, LINE VOLTAGE AQUASTAT. COORDINATE WIRING OF PUMP THROUGH LINE VOLTAGE AQUASTAT WITH ELECTRICAL CONTRACTOR. NOTE A.
RD-1	ROOF DRAIN	ZURN ZA-100		REFER TO PLAN FOR SIZE. NO HUB CONNECTION, ALUMINUM DOME.

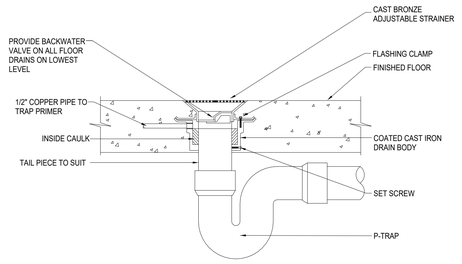
NOTES:
A. PROVIDE CONCEALED ARM FIXTURE SUPPORT FOR NEW LAVATORY WITH UPRIGHT WELDED FEET AND ADJUSTABLE HEADERS,INSTALLED WITHIN WALL / CHASE.

B. VERIFY LOCATION OF FLOOR DRAIN / FLOOR SINK / FLOOR CLEANOUT APPLY CORRECT APPLICATION, RECESSED FOR TILE, RECESSED FOR TERRAZZO.

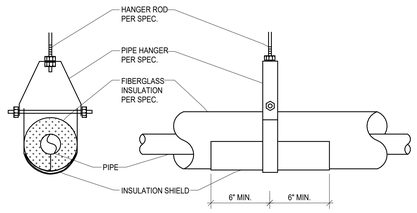
C. PROVIDE TRAP PRIMER VALVE SIMILAR TO PRECISION PLUMBING PRODUCT MODEL P FOR FLOOR DRAIN AND FLOOR SINK AND CONNECT VALVE TO NEAREST ACCESSIBLE COLD WATER PIPING. VALVE MUST BE INSTALLED A MINIMUM OF 12 INCHES ABOVE FINISHED FLOOR. PROVIDE PIPING FROM VALVE TO FLOOR DRAIN / FLOOR SINK PER VALVE MANUFACTURERS INSTALLATION INSTRUCTIONS.

D. PLUMBING CONTRACTOR TO EXCAVATE AND PREPARE AREA, MIX AND APPLY FORM RELEASE PRODUCT, ASSEMBLE RAILS, LEGS, FORMS, CLAMPS AND PLACE COMPLETED TRENCH COMPONENTS AT REQUIRED LOCATIONS. PLUMBING CONTRACTOR TO PROVIDE CONCRETE ANCHORING SLAB WALL TO WALL AND END TO END IN BOTTOM OF EXCAVATION COVERING TRENCH DRAIN U-LEGS WITH MINIMUM OF 2 INCHES OF CONCRETE. COORDINATE FINISHED FLOOR CONCRETE POUR. PLUMBING CONTRACTOR TO REMOVE ALL FORM MATERIAL FROM TRENCH DRAINS AFTER FINISHED FLOOR CONCRETE HAS DRIED AND INSTALL ALL GRATES. ALL TRENCH DRAIN WORK SHALL BE INSTALLED PER TRENCH DRAIN MANUFACTURERS INSTALLATION INSTRUCTIONS.

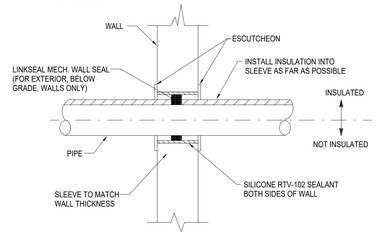
E. PROVIDE TRAP PRIMER VALVE SIMILAR TO PRECISION PLUMBING PRODUCT MODEL P FOR FLOOR DRAIN AND FLOOR SINK AND CONNECT VALVE TO NEAREST ACCESSIBLE COLD WATER PIPING. VALVE MUST BE INSTALLED A MINIMUM OF 12 INCHES ABOVE FINISHED FLOOR. PROVIDE PIPING FROM VALVE TO FLOOR DRAIN / FLOOR SINK PER VALVE MANUFACTURERS INSTALLATION INSTRUCTIONS.



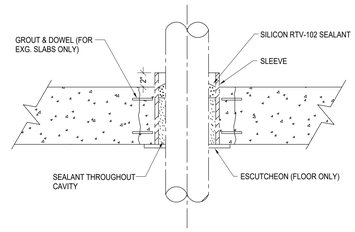
6 FLOOR DRAIN DETAIL
N.T.S.



5 TYPICAL PIPE HANGER AND SHIELD DETAIL
N.T.S.



4 TYPICAL PIPE THROUGH WALL DETAIL
N.T.S.



3 TYPICAL PIPE THROUGH FLOOR/SLAB DETAIL
N.T.S.

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DRAWN BY:	CJH
CHECKED BY:	JDG
DATE:	07/24/2026
PHASE:	CD

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#	DATE:	REVISION:
1	10/09/2026	ISSUED FOR BID

IT IS A VIOLATION OF THIS LAW FOR ANY DESIGN TO MAKE UNAUTHORIZED ALTERATIONS OR ADDITIONS TO PLANS BEARING A LICENSED ENGINEER'S, ARCHITECT'S OR SURVEYOR'S SEAL."

SCHEDULES AND DETAILS

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

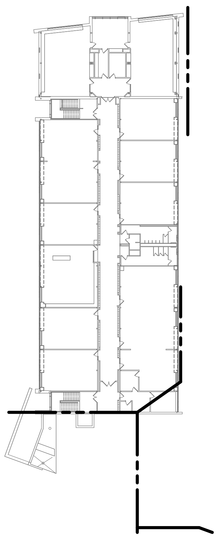
ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

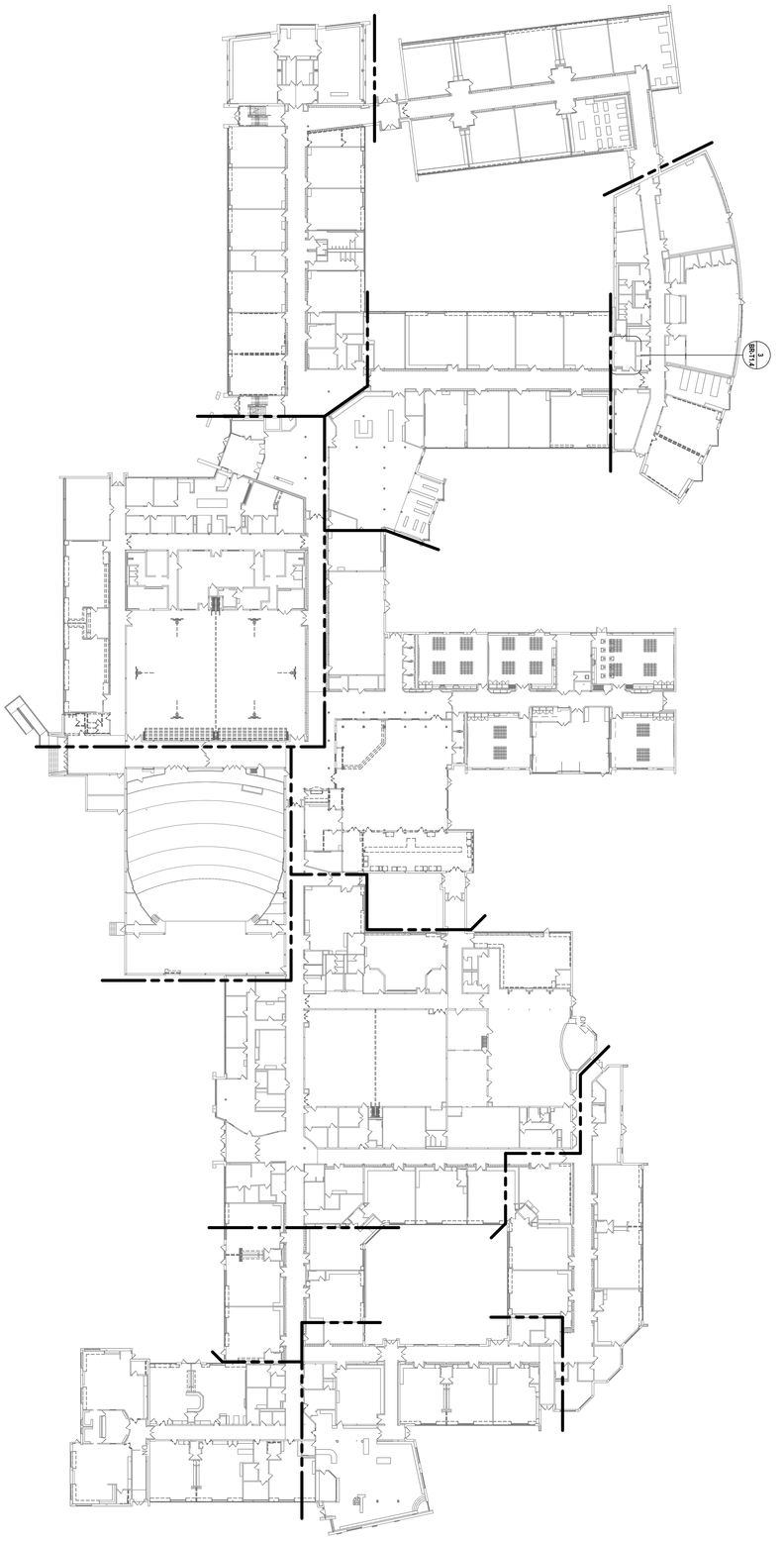
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BR-P3.1

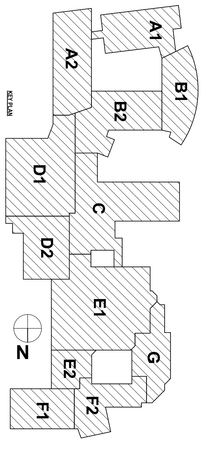
PROJECT NO: 2012-254



2 SECOND FLOOR TECHNOLOGY DEMO KEY PLAN
1/32" = 1'-0"



1 FIRST FLOOR TECHNOLOGY DEMO KEY PLAN
1/32" = 1'-0"



SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

PROJECT NO: 2512254

BR-T0.1

FIRST & SECOND FLOOR TECHNOLOGY DEMO KEY PLAN

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

HUNT ENGINEERS | ARCHITECTS | SURVEYORS

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#	DATE:	REVISION:
1	10/09/2026	ISSUED FOR BID

PHASE: CD

DATE: 9/7/2026

CHECKED BY: JLS

DRAWN BY: CSH

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DEMOLITION NOTES - TECHNOLOGY

D1 TELECOMMUNICATIONS OUTLET TO BE REMOVED. REMOVE SIGNAL CABLING BACK TO SOURCE.

D2 REMOVE CEILING MOUNTED SPEAKERS AND WIRELESS ACCESS POINTS DURING WORK BY OTHERS. UPON COMPLETED WORK, SPEAKERS AND WIRELESS ACCESS POINTS TO BE REINSTALLED.

D3 REMOVE CABING BACK TO SOURCE.

GENERAL NOTES - TECHNOLOGY

A ALL CABLING INSTALLATION AND TERMINATION TO ADHERE TO CURRENT NEC CODES AND RELATED ANSI/TIA/EIA STANDARDS.

B WHEN INSTALLING CEILING MOUNTED DEVICES, ADJUST LOCATION TO AVOID OTHER CEILING MOUNTED DEVICES SUCH AS EXIT SIGNS, ETC.

C ALL DATA CABLING SHALL BE PLENUM RATED.

D OWNER TO APPROVE FINAL LOCATION AND VIEW OF ALL CAMERAS.

E ALL ELECTRONIC SERVICES NEED TO BE COORDINATED WITH OWNER PRIOR TO REMOVAL AND DISCONNECTION.

F ALL CEILING MOUNTED DEVICES TO BE SUPPORTED BY STRUCTURE ABOVE. DO NOT USE CEILING GRID AS SOLE SUPPORT MECHANISM

G ALL WALL OUTLETS SHALL BE LOCATED WITHIN 36" OF THE NEAREST POWER OUTLET AND AT THE SAME ELEVATION.

H ANY DAMAGE DONE TO A FUNCTIONING CABLING SYSTEM IS THE RESPONSIBILITY OF; AND WILL BE REPAIRED BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.

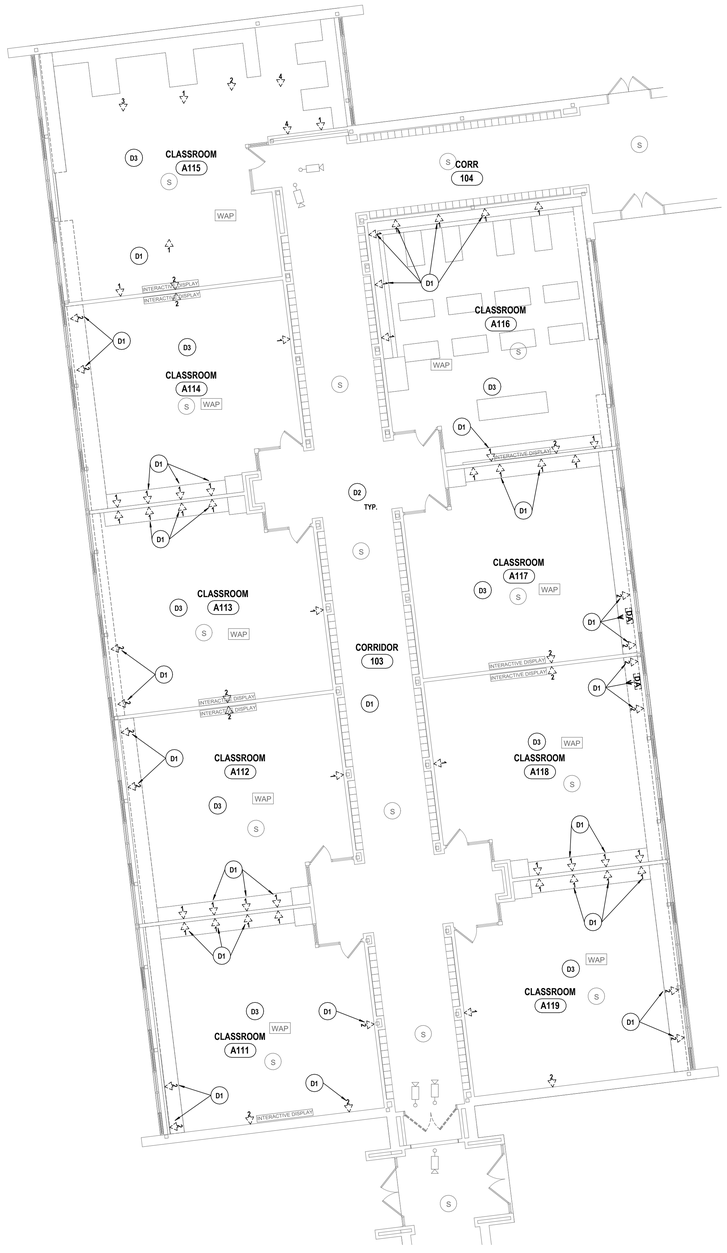
I CONTRACTOR TO PROVIDE ADDITIONAL CONDUIT PATHWAYS AS REQUIRED FOR ALL NEW CABLING, PER SPECIFICATIONS.

J THE CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTIVE COVERING ON EXISTING FLOOR AND WALL SURFACES SCHEDULED TO REMAIN IN ALL WORK AREAS. THE CONTRACTOR SHALL USE EXTREME CARE TO PREVENT DAMAGE TO EXISTING FINISHES AND SHALL BE RESPONSIBLE FOR REPAIRING ALL SURFACES AND FINISHES DAMAGED AS A RESULT OF THE WORK.

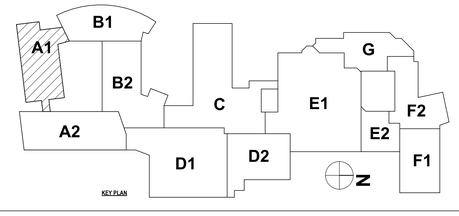
K EXISTING CONDUITS THAT ARE RE-USED OR REQUIRED TO BE REMOVED/INFILLED, SHALL BE FIRESTOPPED ACCORDING TO SPECIFICATIONS AND ALL APPLICABLE CODES.

L ELECTRONIC LOCKING HARDWARE PROVIDED AS PART OF DOOR HARDWARE SET UNLESS NOTED OTHERWISE SHALL HAVE POWER SUPPLIES TO BE COMPATIBLE WITH DOOR HARDWARE AS SPECIFIED IN SECTION 08 71 00; VOLTAGE TO BE V.I.F.

M INTERACTIVE DISPLAY LOCATION SHOWN FOR REFERENCE. REFER TO NOTES FOR CABLING REQUIREMENTS.



1 FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA A1
1/8" = 1'-0"



KEY PLAN

#	DATE:	REVISION:
1	10/07/2026	ISSUED FOR BID

DRAWN BY: LAD
CHECKED BY: JLS
DATE: 07/24/2026
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NY CERTIFICATE NO. 001822O PA CERTIFICATE NO. TSC22031314641

FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA A1
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 61-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T0.2

PROJECT NO: 2012-254

DEMOLITION NOTES - TECHNOLOGY

D1 TELECOMMUNICATIONS OUTLET TO BE REMOVED. REMOVE SIGNAL CABLING BACK TO SOURCE.

D2 REMOVE CEILING MOUNTED SPEAKERS AND WIRELESS ACCESS POINTS DURING WORK BY OTHERS. UPON COMPLETED WORK, SPEAKERS AND WIRELESS ACCESS POINTS TO BE REINSTALLED.

D3 REMOVE CABING BACK TO SOURCE.

GENERAL NOTES - TECHNOLOGY

A ALL CABLING INSTALLATION AND TERMINATION TO ADHERE TO CURRENT NEC CODES AND RELATED ANSI/TIA/EIA STANDARDS.

B WHEN INSTALLING CEILING MOUNTED DEVICES, ADJUST LOCATION TO AVOID OTHER CEILING MOUNTED DEVICES SUCH AS EXIT SIGNS, ETC.

C ALL DATA CABLING SHALL BE PLENUM RATED.

D OWNER TO APPROVE FINAL LOCATION AND VIEW OF ALL CAMERAS.

E ALL ELECTRONIC SERVICES NEED TO BE COORDINATED WITH OWNER PRIOR TO REMOVAL AND DISCONNECTION.

F ALL CEILING MOUNTED DEVICES TO BE SUPPORTED BY STRUCTURE ABOVE. DO NOT USE CEILING GRID AS SOLE SUPPORT MECHANISM

G ALL WALL OUTLETS SHALL BE LOCATED WITHIN 36" OF THE NEAREST POWER OUTLET AND AT THE SAME ELEVATION.

H ANY DAMAGE DONE TO A FUNCTIONING CABLING SYSTEM IS THE RESPONSIBILITY OF; AND WILL BE REPAIRED BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.

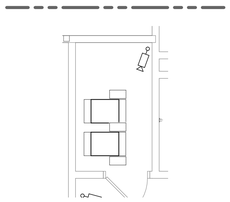
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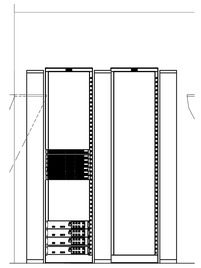
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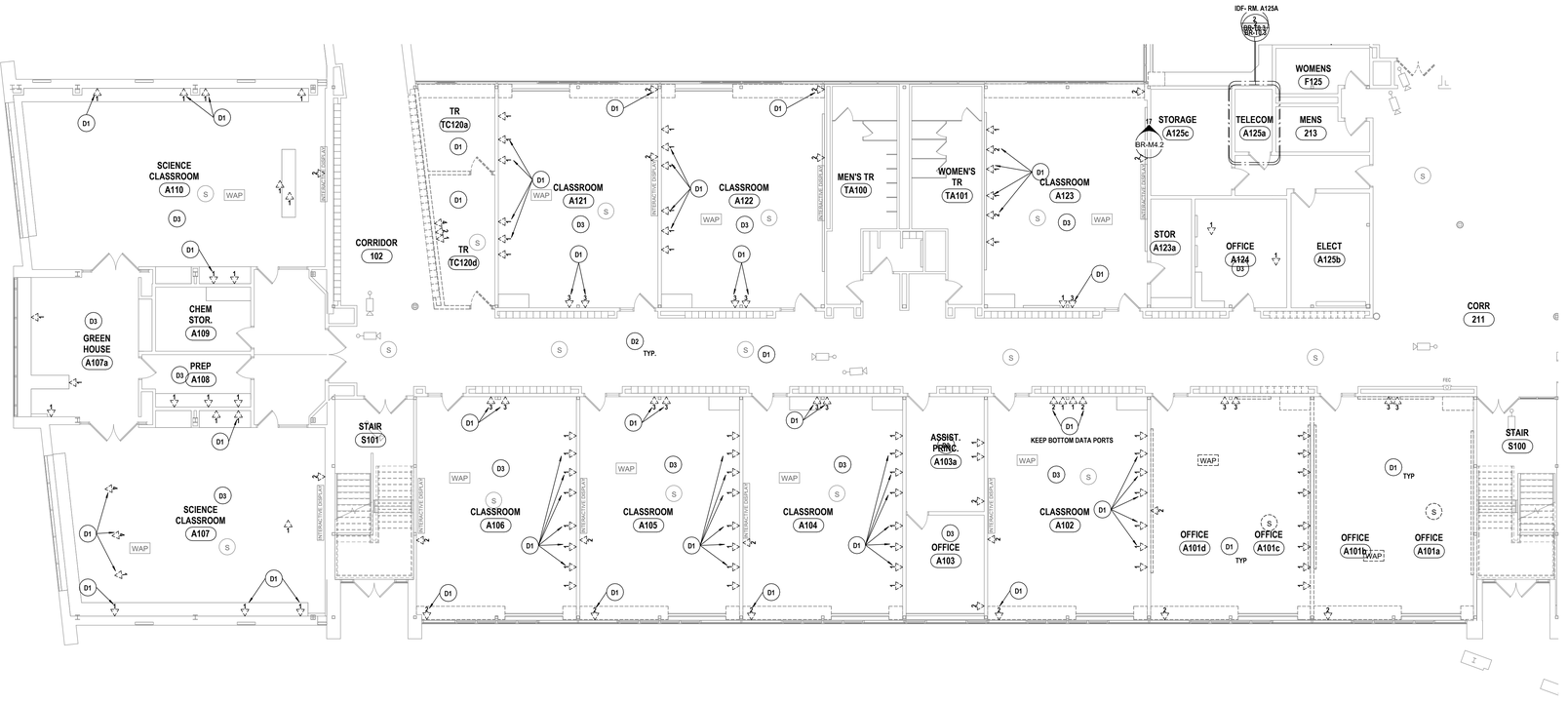
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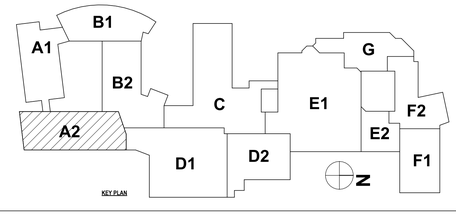
2 IDF- ROOM A125 ENLARGED DEMO VIEW
1/4" = 1'-0"



3 IDF- ROOM A125 ELEVATION DEMO VIEW
1/2" = 1'-0"



1 FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA A2
1/8" = 1'-0"



KEY PLAN

#	DATE:	REVISION:
1	10/07/2025	ISSUED FOR BID

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FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA A2
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ELMIRA CITY SCHOOL DISTRICT
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SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T0.3

PROJECT NO: 2012-254

DEMOLITION NOTES - TECHNOLOGY

D1 TELECOMMUNICATIONS OUTLET TO BE REMOVED. REMOVE SIGNAL CABLING BACK TO SOURCE.

D2 REMOVE CEILING MOUNTED SPEAKERS AND WIRELESS ACCESS POINTS DURING WORK BY OTHERS. UPON COMPLETED WORK, SPEAKERS AND WIRELESS ACCESS POINTS TO BE REINSTALLED.

D3 REMOVE CABING BACK TO SOURCE.

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A ALL CABLING INSTALLATION AND TERMINATION TO ADHERE TO CURRENT NEC CODES AND RELATED ANSI/TIA/EIA STANDARDS.

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C ALL DATA CABLING SHALL BE PLENUM RATED.

D OWNER TO APPROVE FINAL LOCATION AND VIEW OF ALL CAMERAS.

E ALL ELECTRONIC SERVICES NEED TO BE COORDINATED WITH OWNER PRIOR TO REMOVAL AND DISCONNECTION.

F ALL CEILING MOUNTED DEVICES TO BE SUPPORTED BY STRUCTURE ABOVE. DO NOT USE CEILING GRID AS SOLE SUPPORT MECHANISM

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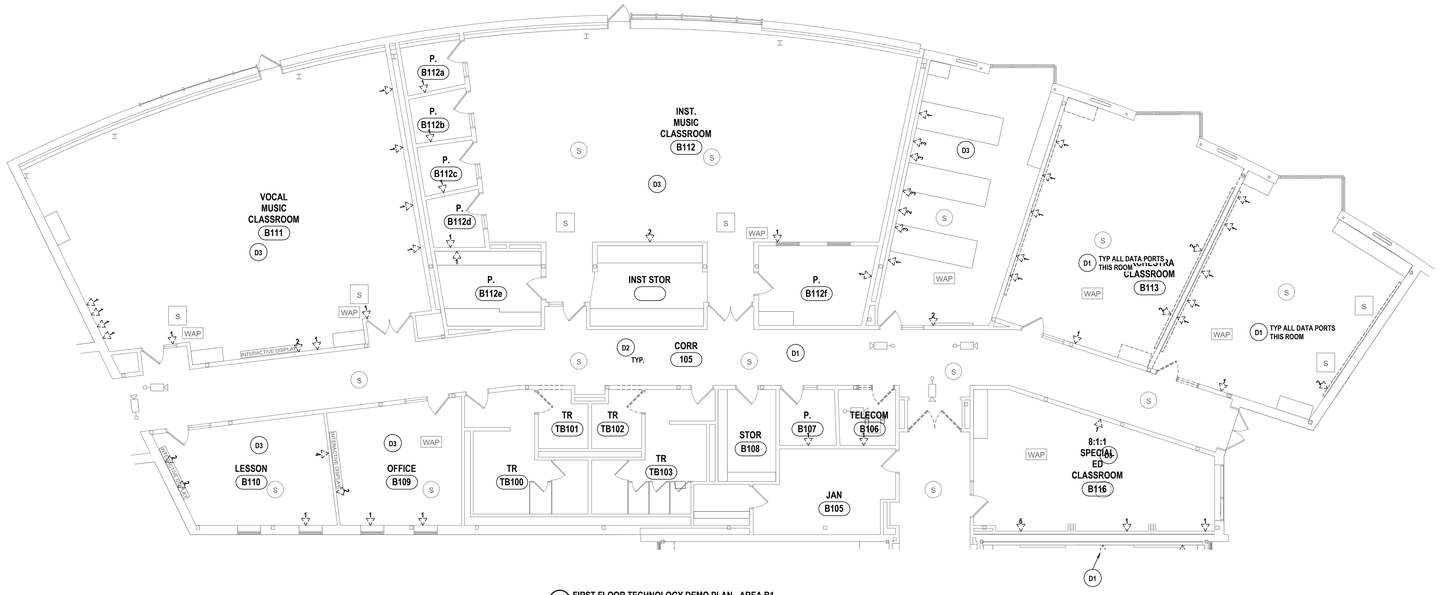
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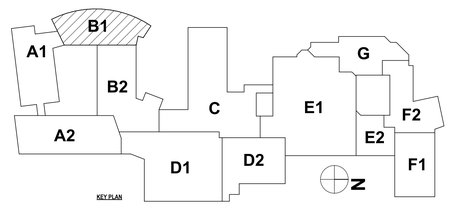
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M INTERACTIVE DISPLAY LOCATION SHOWN FOR REFERENCE. REFER TO NOTES FOR CABLING REQUIREMENTS.



1 FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA B1
1/8" = 1'-0"



DRAWN BY: LAD
CHECKED BY: JLS
DATE: 07/24/2026
PHASE: CD

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1	10/07/2026	ISSUED FOR BID

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WWW.HUNT-EAS.COM 607 - 358 - 1000
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131464-1

FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA B1

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 61-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T0.4

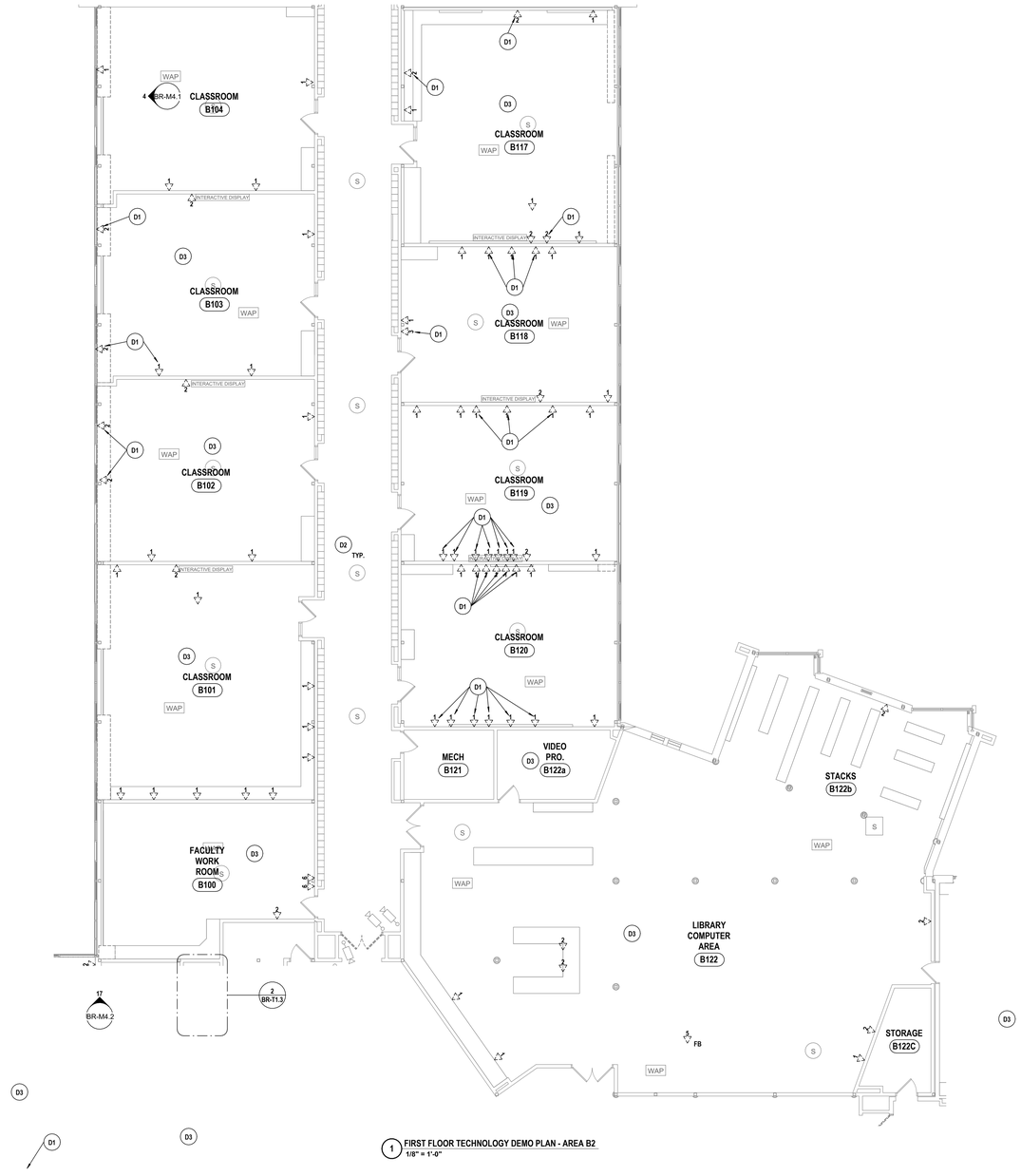
PROJECT NO: 2012-254

DEMOLITION NOTES - TECHNOLOGY

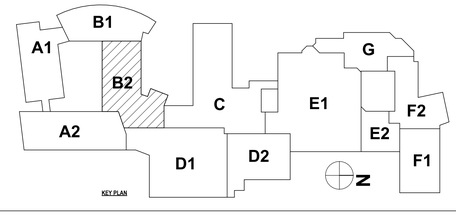
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GENERAL NOTES - TECHNOLOGY

A	ALL CABLING INSTALLATION AND TERMINATION TO ADHERE TO CURRENT NEC CODES AND RELATED ANSI/TIA/EIA STANDARDS.
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D	OWNER TO APPROVE FINAL LOCATION AND VIEW OF ALL CAMERAS.
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G	ALL WALL OUTLETS SHALL BE LOCATED WITHIN 36" OF THE NEAREST POWER OUTLET AND AT THE SAME ELEVATION.
H	ANY DAMAGE DONE TO A FUNCTIONING CABLING SYSTEM IS THE RESPONSIBILITY OF; AND WILL BE REPAIRED BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.
I	CONTRACTOR TO PROVIDE ADDITIONAL CONDUIT PATHWAYS AS REQUIRED FOR ALL NEW CABLING, PER SPECIFICATIONS.
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1 FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA B2
1/8" = 1'-0"



KEY PLAN

DRAWN BY:	LAD
CHECKED BY:	JLS
DATE:	07/24/2026
PHASE:	CD

#	DATE:	REVISION:
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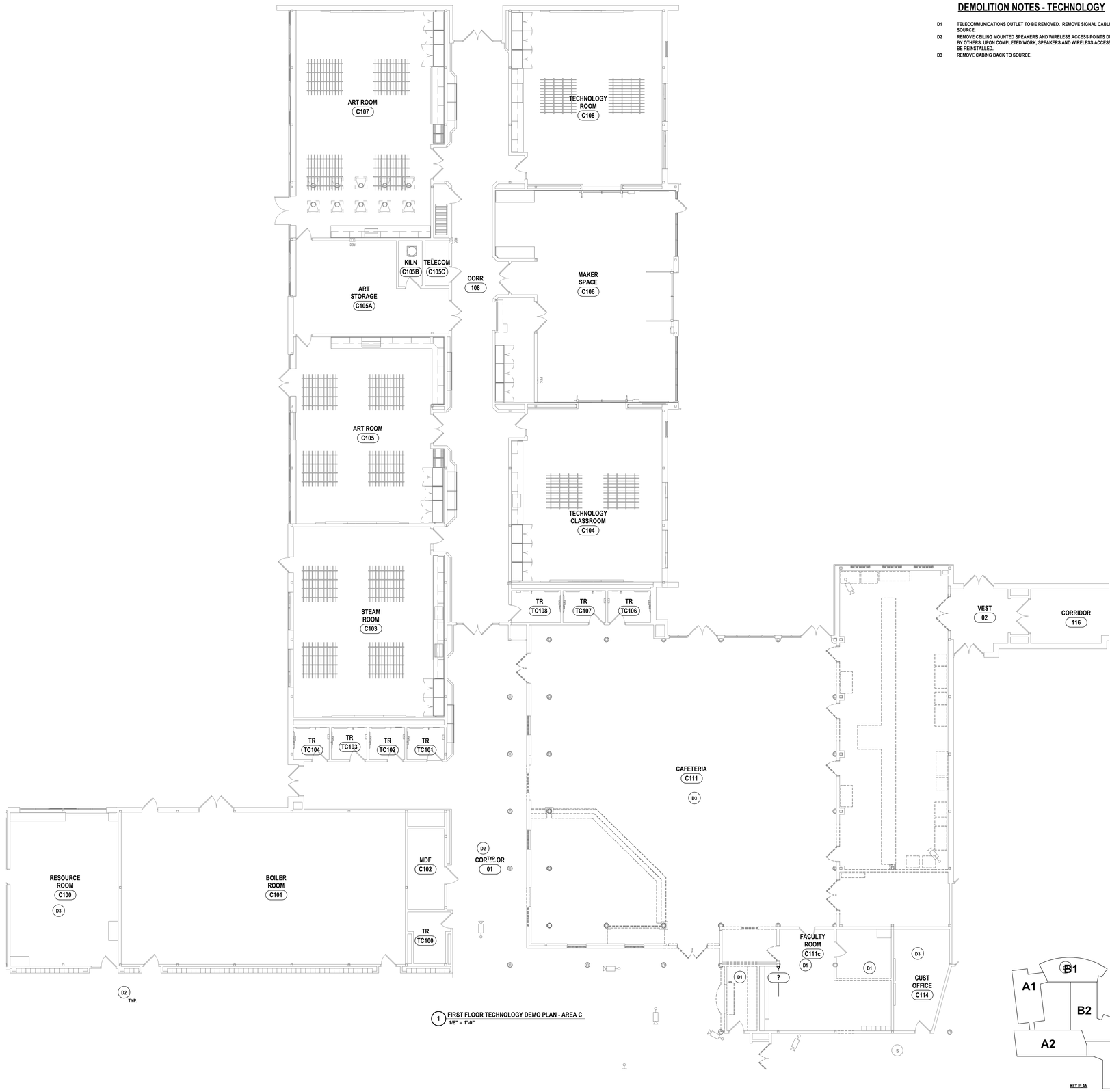
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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131464-1

FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA B2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T0.5

PROJECT NO: 2612-254



1 FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA C
1/8" = 1'-0"

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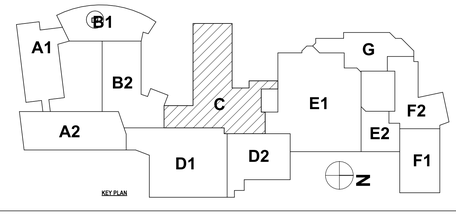
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DRAWN BY: LAD
CHECKED BY: JLS
DATE: 07/24/2026
PHASE: CD

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FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA C
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T0.6

PROJECT NO: 2012-254

DEMOLITION NOTES - TECHNOLOGY

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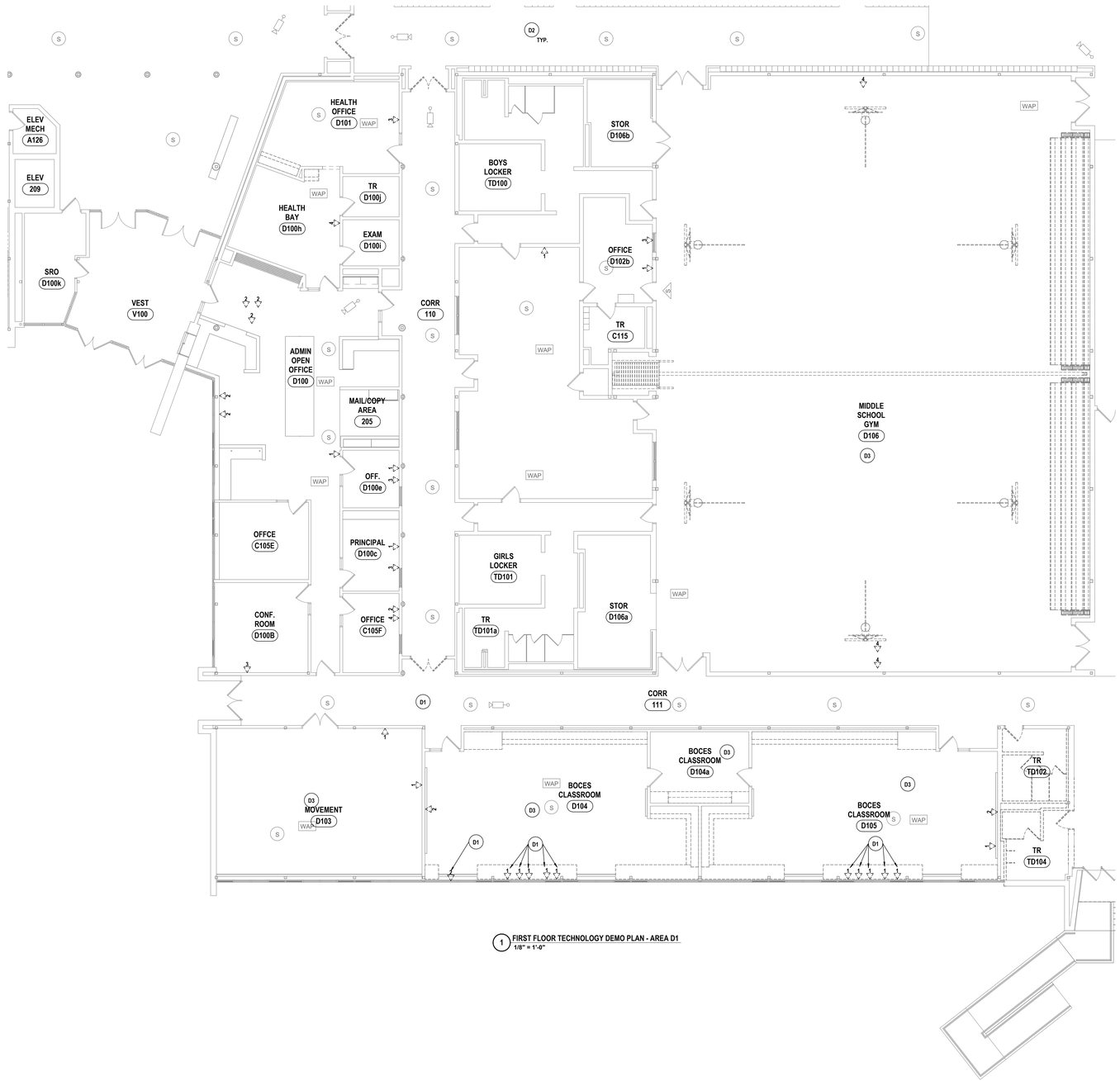
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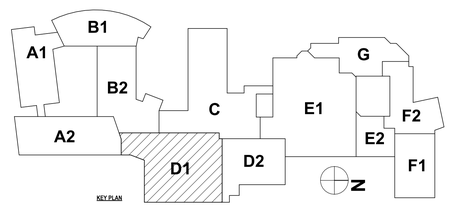
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1 FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA D1
1/8" = 1'-0"



KEY PLAN

SED # 07-56-00-01-0-034-027, 07-56-00-01-0-034-028

DRAWN BY:	LAD
CHECKED BY:	JLS
DATE:	07/24/2026
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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131464-1

FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA D1
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

BR-T0.7

PROJECT NO: 2612-254

DEMOLITION NOTES - TECHNOLOGY

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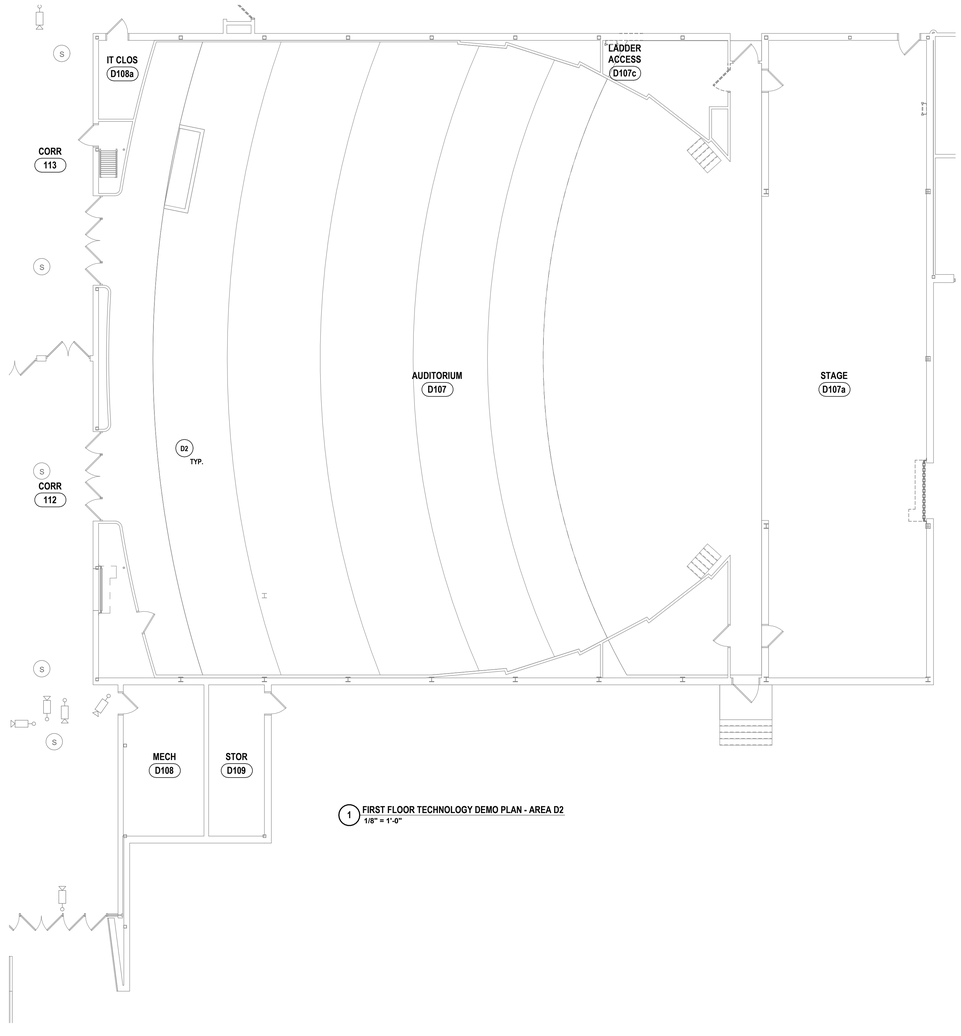
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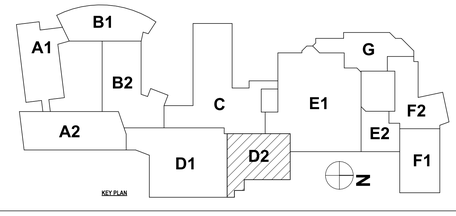
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1/8" = 1'-0"



SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

DRAWN BY: LAD
CHECKED BY: JLS
DATE: 07/24/2026
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FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA D2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

BR-T0.8

PROJECT NO: 2612-254

DEMOLITION NOTES - TECHNOLOGY

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1/8" = 1'-0"

KEY PLAN

DRAWN BY:	LAD
CHECKED BY:	JLS
DATE:	07/24/2026
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#	DATE:	REVISION:
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WWW.HUNT-EAS.COM 607 - 358 - 1000
NY CERTIFICATE NO. 001822O PA CERTIFICATE NO. TSC22031314641

FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA E1
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T0.9

PROJECT NO: 2012-254

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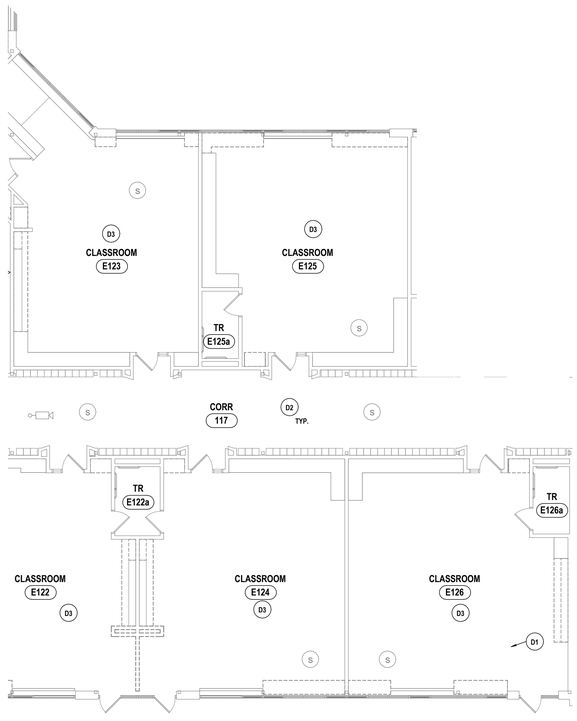
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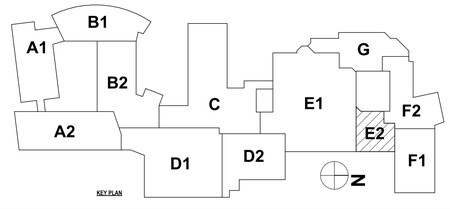
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M INTERACTIVE DISPLAY LOCATION SHOWN FOR REFERENCE. REFER TO NOTES FOR CABLING REQUIREMENTS.



1 FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA E2
1/8" = 1'-0"



KEY PLAN

DRAWN BY:	LAD
CHECKED BY:	JLS
DATE:	07/24/2026
PHASE:	CD

#	DATE:	REVISION:
1	10/07/2025	ISSUED FOR BID

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WWW.HUNT-EAS.COM 607 - 358 - 1000
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC22031314641

FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA E2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027; 07-06-00-01-0-034-028

BR-T0.10

PROJECT NO: 2013-254

DEMOLITION NOTES - TECHNOLOGY

D1 TELECOMMUNICATIONS OUTLET TO BE REMOVED. REMOVE SIGNAL CABLING BACK TO SOURCE.

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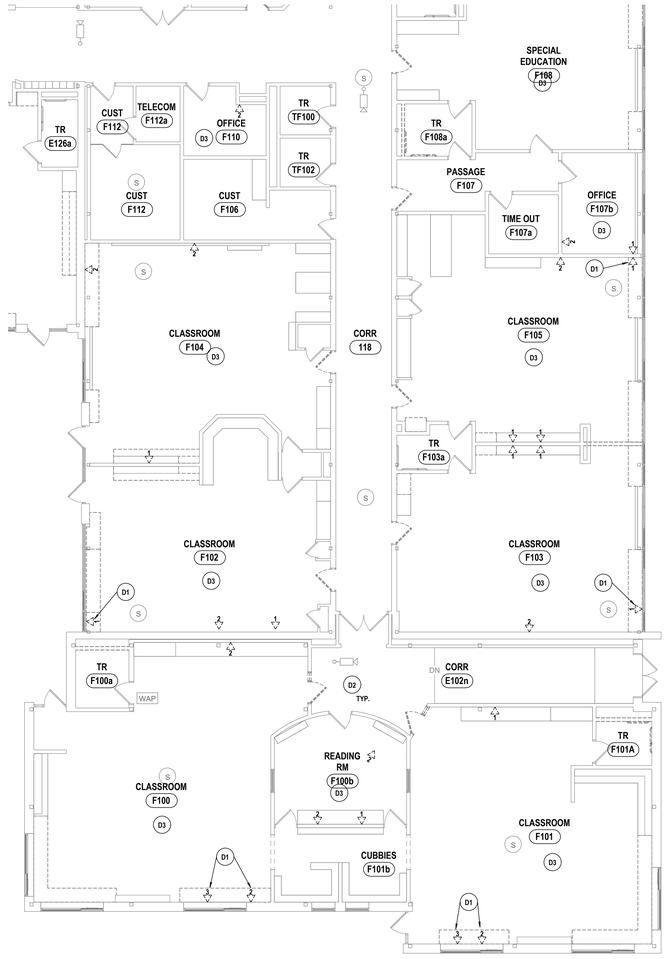
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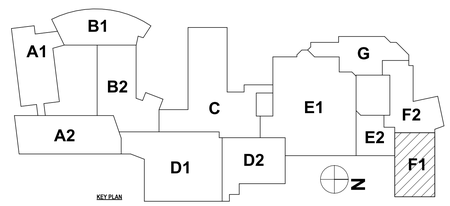
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1 FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA F1
1/8" = 1'-0"



KEY PLAN

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

	DRAWN BY:	LAD
	CHECKED BY:	JLS
	DATE:	07/24/2026
	PHASE:	CD

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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC22023114464-1

FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA F1
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

BR-T0.11

PROJECT NO: 2012-254

DEMOLITION NOTES - TECHNOLOGY

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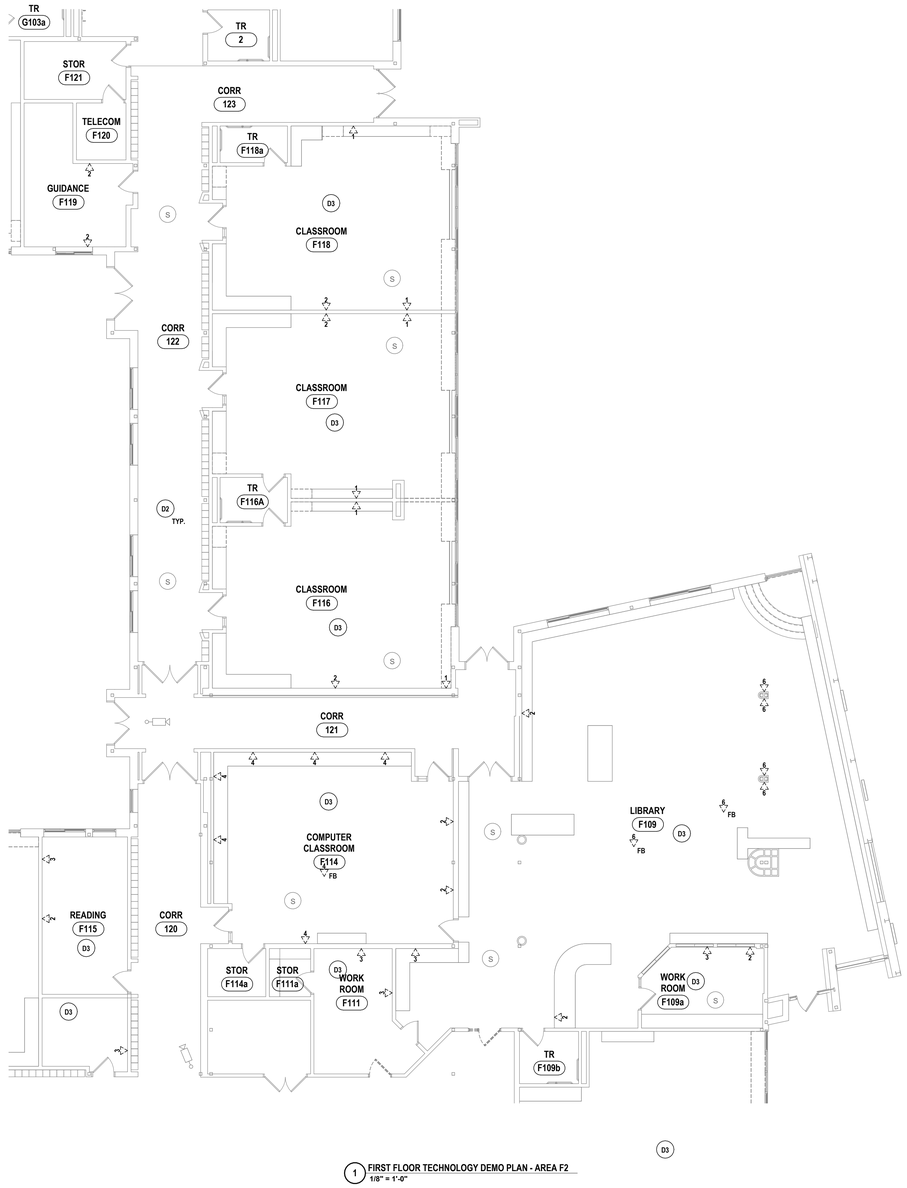
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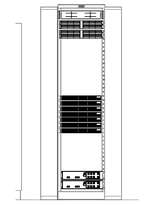
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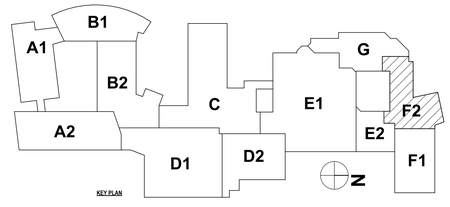
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1 FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA F2
1/8" = 1'-0"



2 IDF- ROM F120 ELEVATION DEMO VIEW
1/2" = 1'-0"



KEY PLAN

SED #: 07-56-00-01-0-034-027, 07-56-00-01-0-034-028

DRAWN BY: LAD
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DATE: 07/24/2026
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NY CERTIFICATE NO. 001822O PA CERTIFICATE NO. TSC2203131464-1

FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA F2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

BR-T0.12

PROJECT NO: 2013-254

DEMOLITION NOTES - TECHNOLOGY

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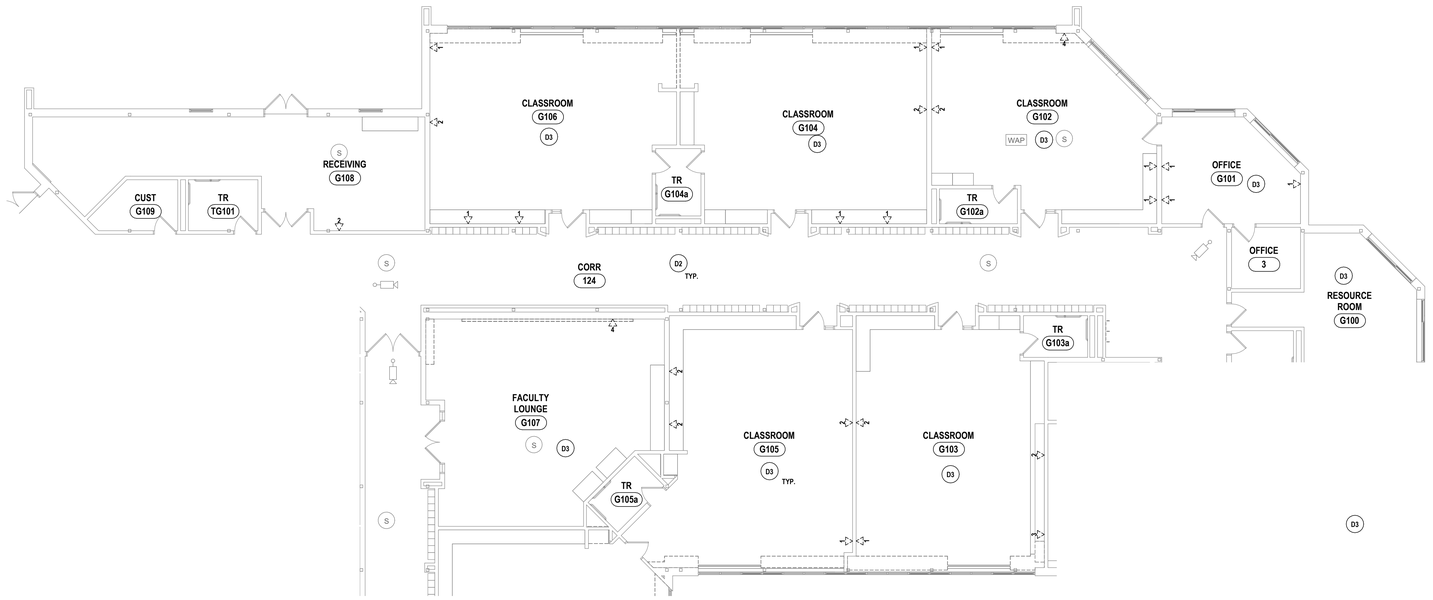
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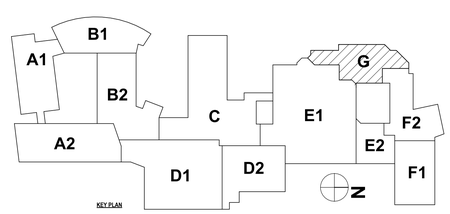
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1 FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA G
1/8" = 1'-0"



KEY PLAN

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

DRAWN BY:	LAD
CHECKED BY:	JLS
DATE:	07/24/2026
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FIRST FLOOR TECHNOLOGY DEMO PLAN - AREA G

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

BR-T0.13

PROJECT NO: 2612-254

DEMOLITION NOTES - TECHNOLOGY

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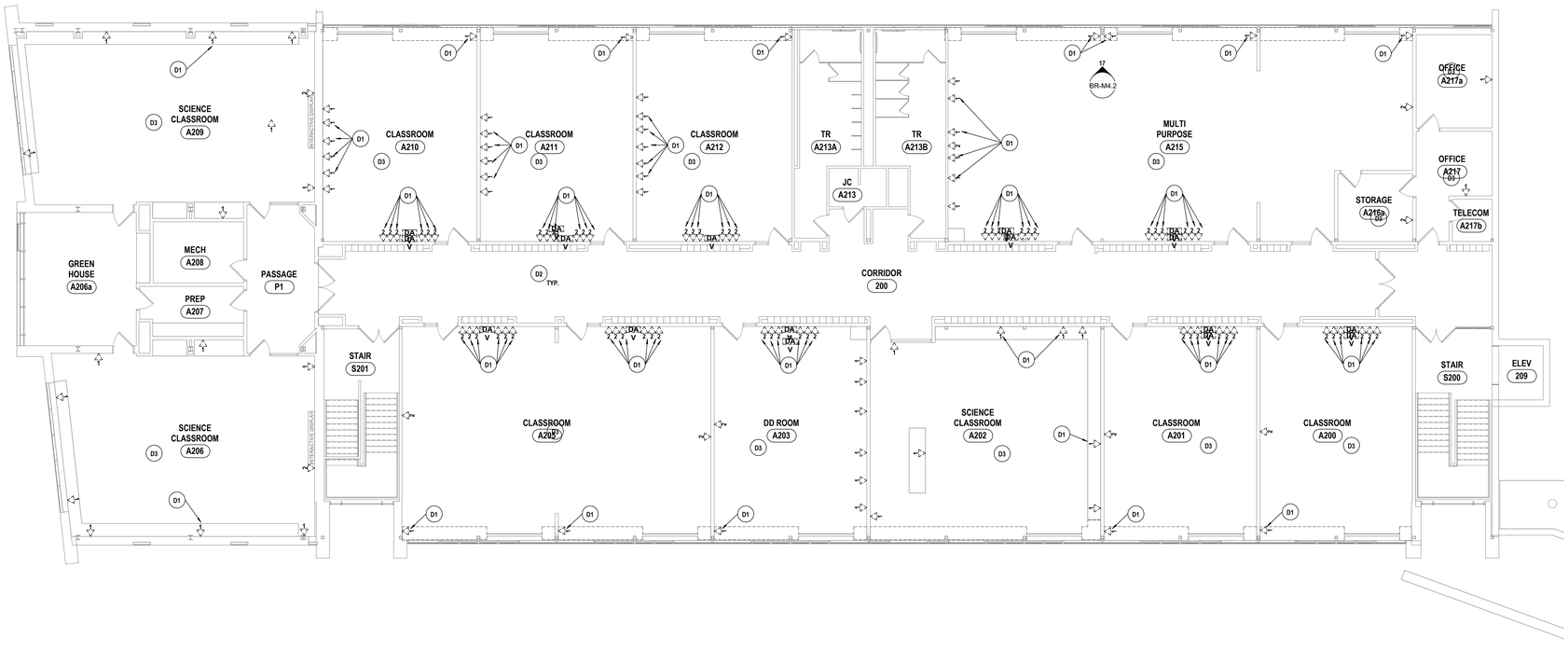
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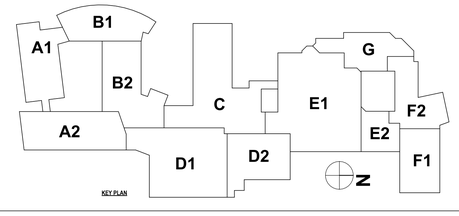
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1 SECOND FLOOR TECHNOLOGY DEMO PLAN - AREA A
1/8" = 1'-0"



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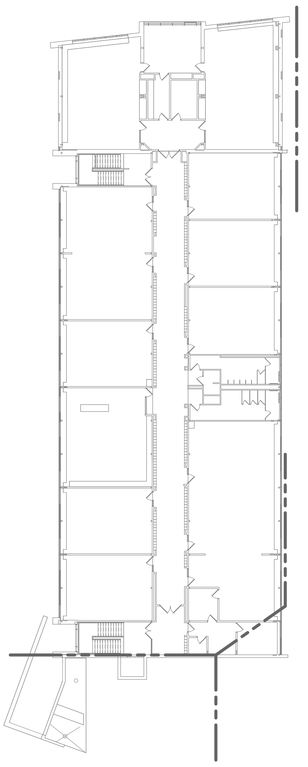
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SECOND FLOOR TECHNOLOGY DEMO PLAN - AREA A
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST. ELMIRA, NY 14904

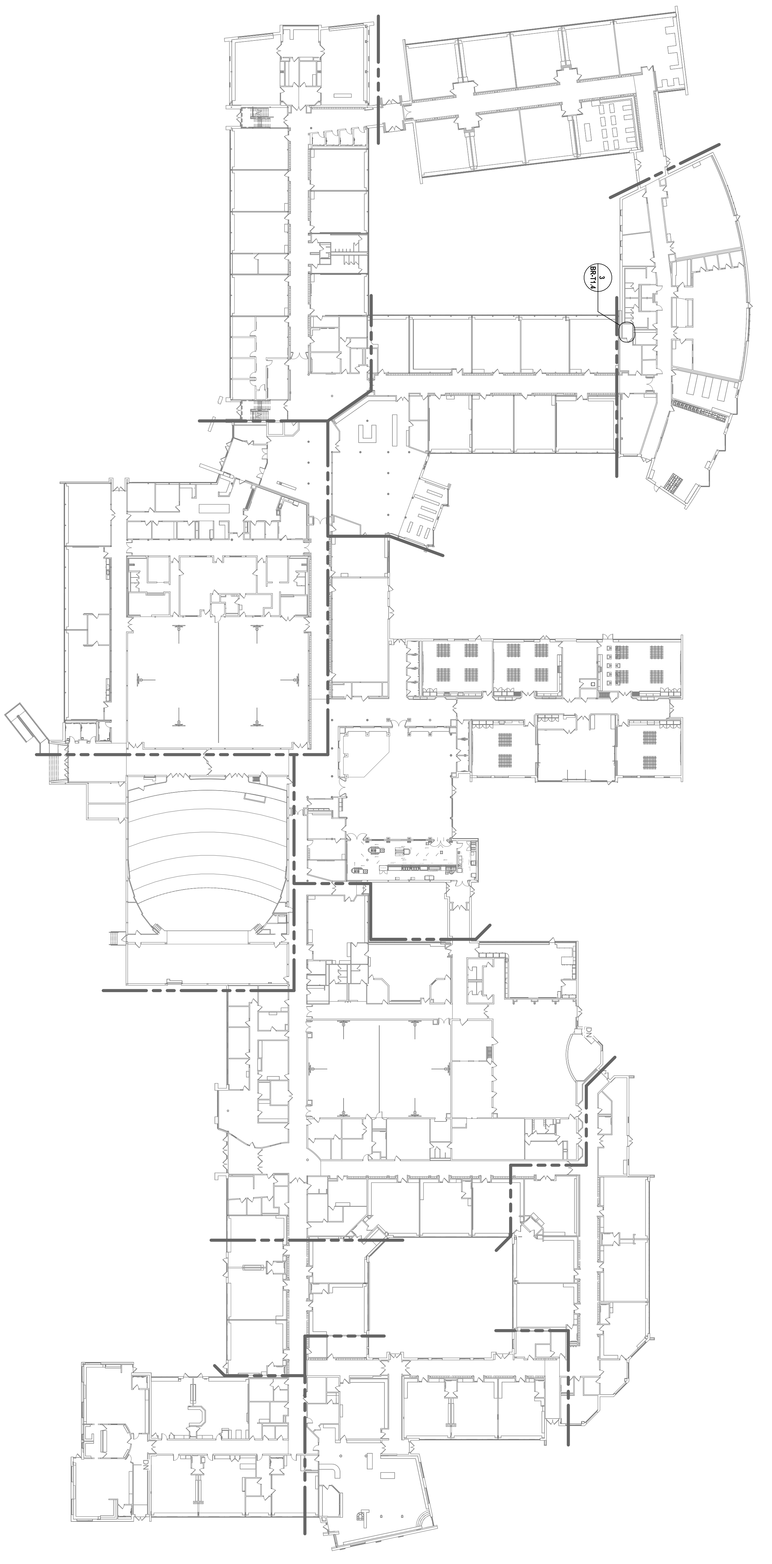
SED # 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T0.14

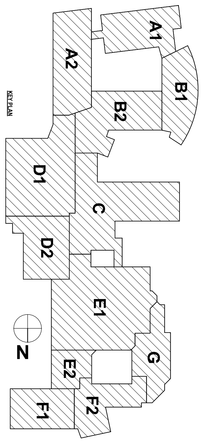
PROJECT NO: 2012-254



2 SECOND FLOOR TECHNOLOGY KEY PLAN
1" = 20'-0"



1 FIRST FLOOR TECHNOLOGY KEY PLAN
1/32" = 1'-0"



SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

PROJECT NO: 2021-25C

BR-T1.1

FIRST & SECOND FLOOR TECHNOLOGY KEY PLAN

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

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NY CERTIFICATE NO. 0018220 · PA CERTIFICATE NO. TSC220313464-1

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DRAWN BY: LAD
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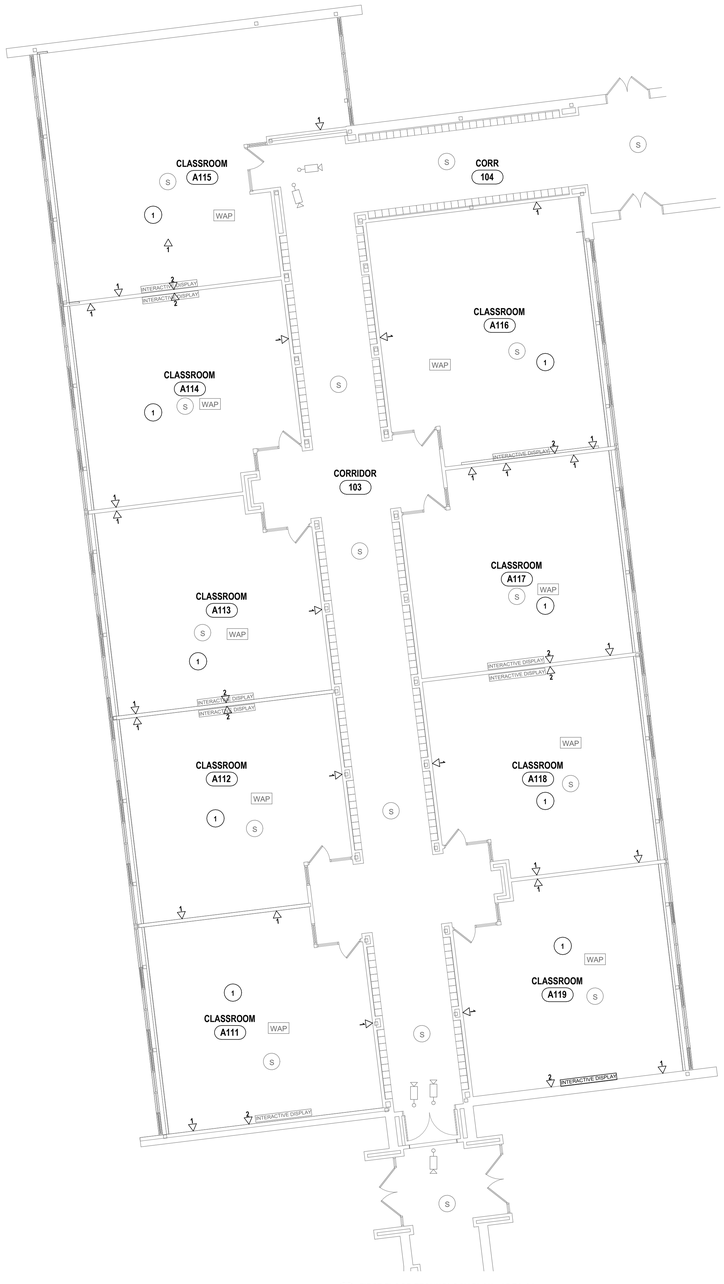
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CONSTRUCTION NOTES - TECHNOLOGY

1 TELECOMMUNICATIONS OUTLET. REQUIRES CABLING AND COMPONENTS PER SPECIFICATIONS & DETAILS.
2 EXISTING WIRELESS ACCESS POINT TO BE REINSTALLATED. REINSTALL AND TEST CABLING AND FUNCTIONALITY AFTER ALL WORK IS COMPLETE AND PRIOR TO TURNOVER TO OWNER.
3 EXISTING PAGING SPEAKER TO BE REINSTALLED. REINSTALL AND TEST CABLING AND FUNCTIONALITY AFTER ALL WORK IS COMPLETE AND PRIOR TO TURNOVER TO OWNER.
4 TELECOM ROOM CAMERA TO BE INSTALLED. CAMERA BASIS OF DESIGN: CISCO.
5 SURVEILLANCE CAMERA REQUIRES CABLING PER SPECIFICATIONS AND DETAILS. SURVEILLANCE CAMERA INSTALLATION AND ASSOCIATED COMPONENTS BY OWNER AND SYSTEM INTEGRATOR.
6 PROVIDE PRESENTATION DISPLAY. REFER TO SPECIFICATIONS.
7 PROVIDE NETWORK EQUIPMENT RACK COMPONENTS PER SPECIFICATIONS.
8 REPLACE CABLING FOR EXISTING VAPE SENSOR. REFER TO SPECIFICATION.

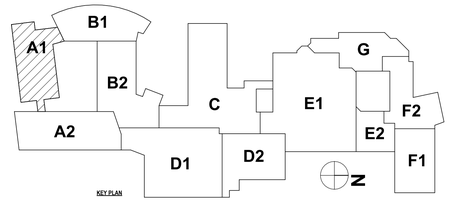
GENERAL NOTES - TECHNOLOGY

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B WHEN INSTALLING CEILING MOUNTED DEVICES, ADJUST LOCATION TO AVOID OTHER CEILING MOUNTED DEVICES SUCH AS EXIT SIGNS, ETC.
C ALL DATA CABLING SHALL BE PLENUM RATED.
D OWNER TO APPROVE FINAL LOCATION AND VIEW OF ALL CAMERAS.
E ALL ELECTRONIC SERVICES NEED TO BE COORDINATED WITH OWNER PRIOR TO REMOVAL AND DISCONNECTION.
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M INTERACTIVE DISPLAY LOCATION SHOWN FOR REFERENCE. REFER TO NOTES FOR CABLING REQUIREMENTS.



1 FIRST FLOOR TECHNOLOGY PLAN - AREA A1
1/8" = 1'-0"

VS



DRAWN BY:	LAD
CHECKED BY:	JLS
DATE:	07/24/2026
PHASE:	CD

#	DATE:	REVISION:
1	10/07/2026	ISSUED FOR BID

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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC22031314641

FIRST FLOOR TECHNOLOGY PLAN - AREA A1
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T1.2

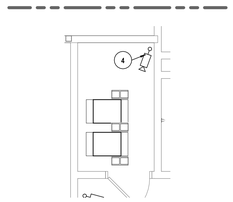
PROJECT NO: 2012-254

CONSTRUCTION NOTES - TECHNOLOGY

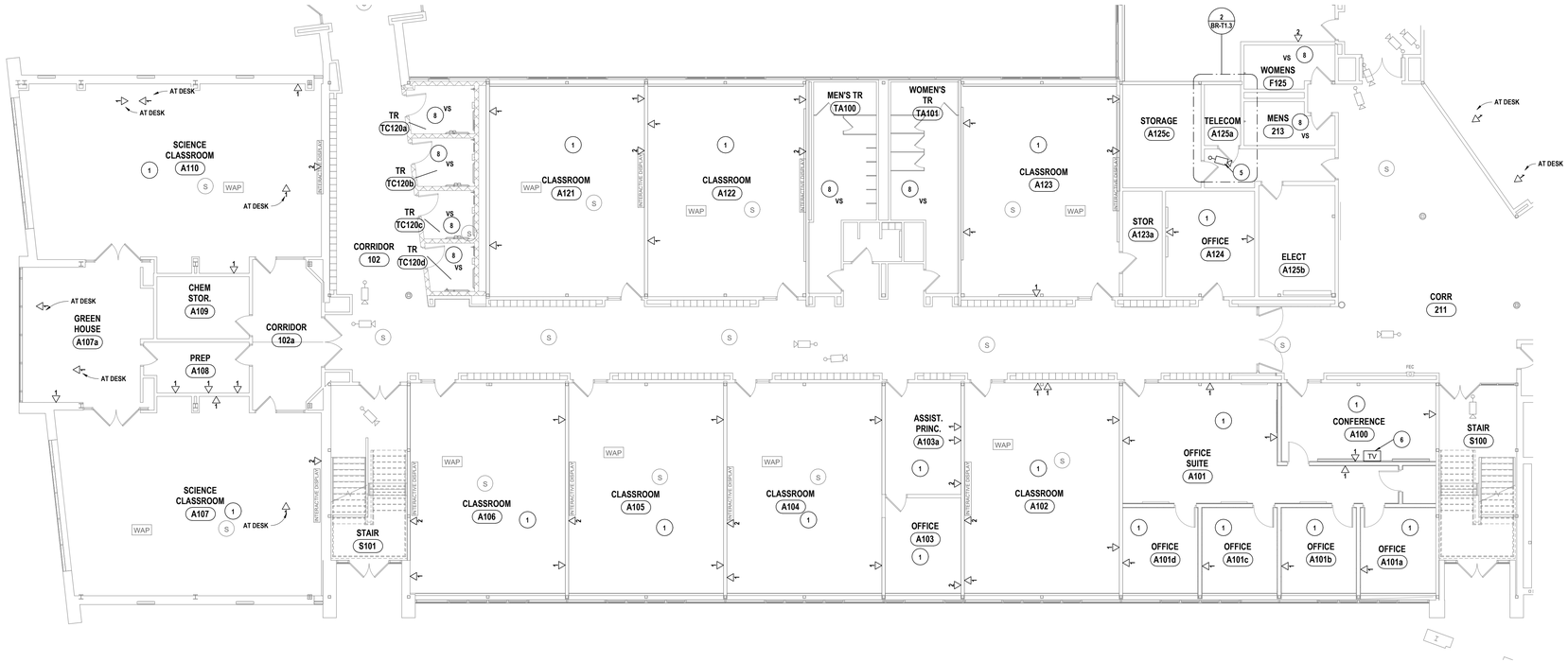
1. TELECOMMUNICATIONS OUTLET. REQUIRES CABLING AND COMPONENTS PER SPECIFICATIONS & DETAILS.
2. EXISTING WIRELESS ACCESS POINT TO BE REINSTALLATED. REINSTALL AND TEST CABLING AND FUNCTIONALITY AFTER ALL WORK IS COMPLETE AND PRIOR TO TURNOVER TO OWNER.
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5. SURVEILLANCE CAMERA REQUIRES CABLING PER SPECIFICATIONS AND DETAILS. SURVEILLANCE CAMERA INSTALLATION AND ASSOCIATED COMPONENTS BY OWNER AND SYSTEM INTEGRATOR.
6. PROVIDE PRESENTATION DISPLAY. REFER TO SPECIFICATIONS.
7. PROVIDE NETWORK EQUIPMENT RACK COMPONENTS PER SPECIFICATIONS.
8. REPLACE CABLING FOR EXISTING VAPE SENSOR. REFER TO SPECIFICATION.

GENERAL NOTES - TECHNOLOGY

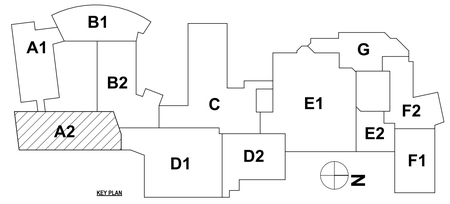
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- M. INTERACTIVE DISPLAY LOCATION SHOWN FOR REFERENCE. REFER TO NOTES FOR CABLING REQUIREMENTS.



2 IDF- ROOM A125 ENLARGED VIEW
1/4" = 1'-0"



1 FIRST FLOOR TECHNOLOGY PLAN - AREA A2
1/8" = 1'-0"



KEY PLAN

	DRAWN BY:	LAD
	CHECKED BY:	JLS
	DATE:	07/24/2026
	PHASE:	CD

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1	10/07/2026	ISSUED FOR BID

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FIRST FLOOR TECHNOLOGY PLAN - AREA A2

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

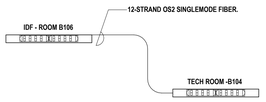
ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

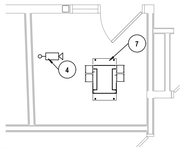
SED #: 01-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T1.3

PROJECT NO: 2012-254



2 FIBER DISTRIBUTION - B106 TO B104
NTS



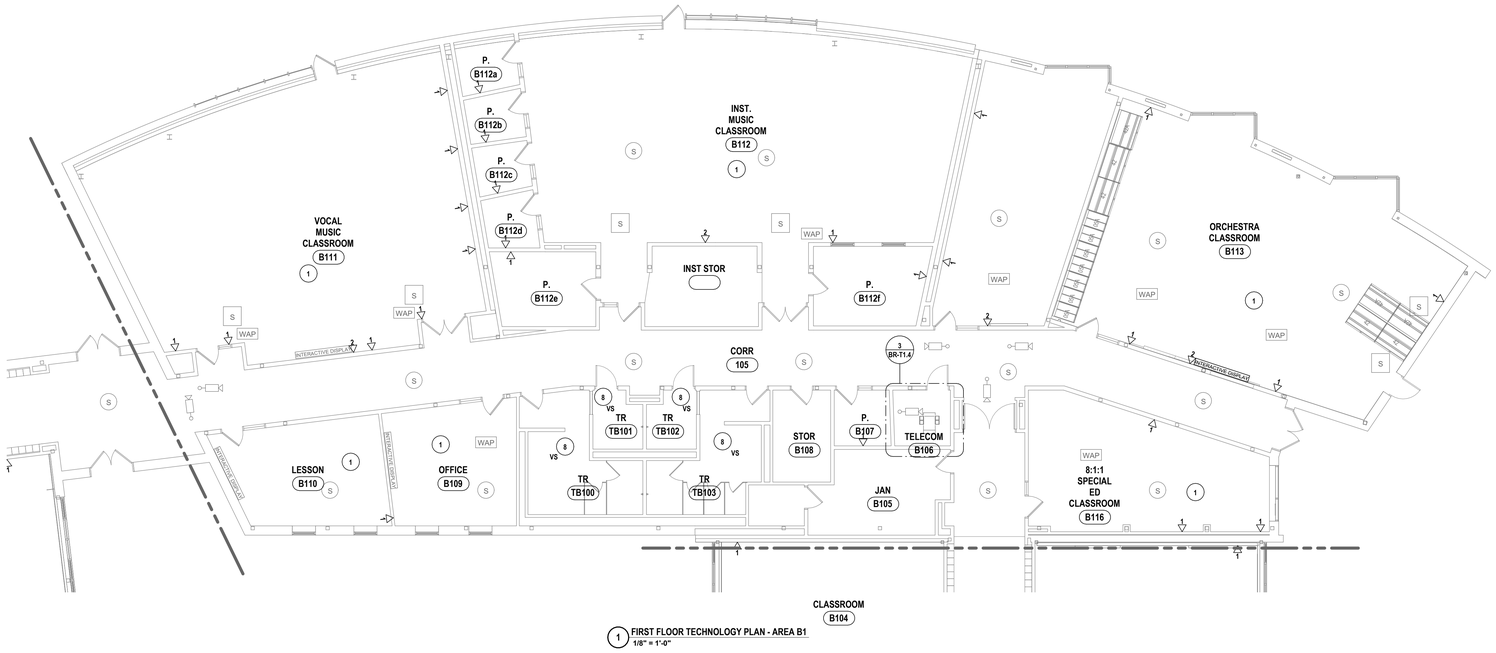
3 IDF - ROOM B106A ENLARGED VIEW
1/4" = 1'-0"

CONSTRUCTION NOTES - TECHNOLOGY

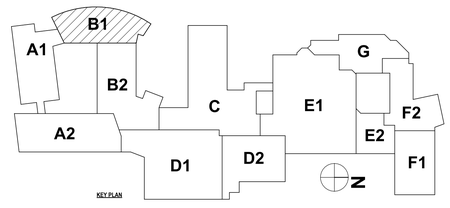
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1 FIRST FLOOR TECHNOLOGY PLAN - AREA B1
1/8" = 1'-0"



KEY PLAN

SED #: 67-06-06-01-0-034-027, 67-06-00-01-0-034-028

DRAWN BY:	LAD
CHECKED BY:	JLS
DATE:	07/24/2026
PHASE:	CD

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FIRST FLOOR TECHNOLOGY PLAN - AREA B1
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

BR-T1.4

PROJECT NO: 2012-254



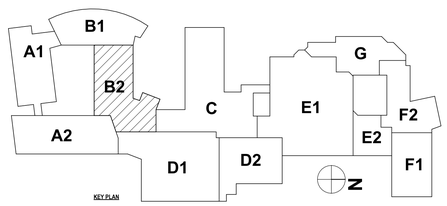
1 FIRST FLOOR TECHNOLOGY PLAN - AREA B2
1/8" = 1'-0"

CONSTRUCTION NOTES - TECHNOLOGY

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KEY PLAN

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DATE: 07/24/2026
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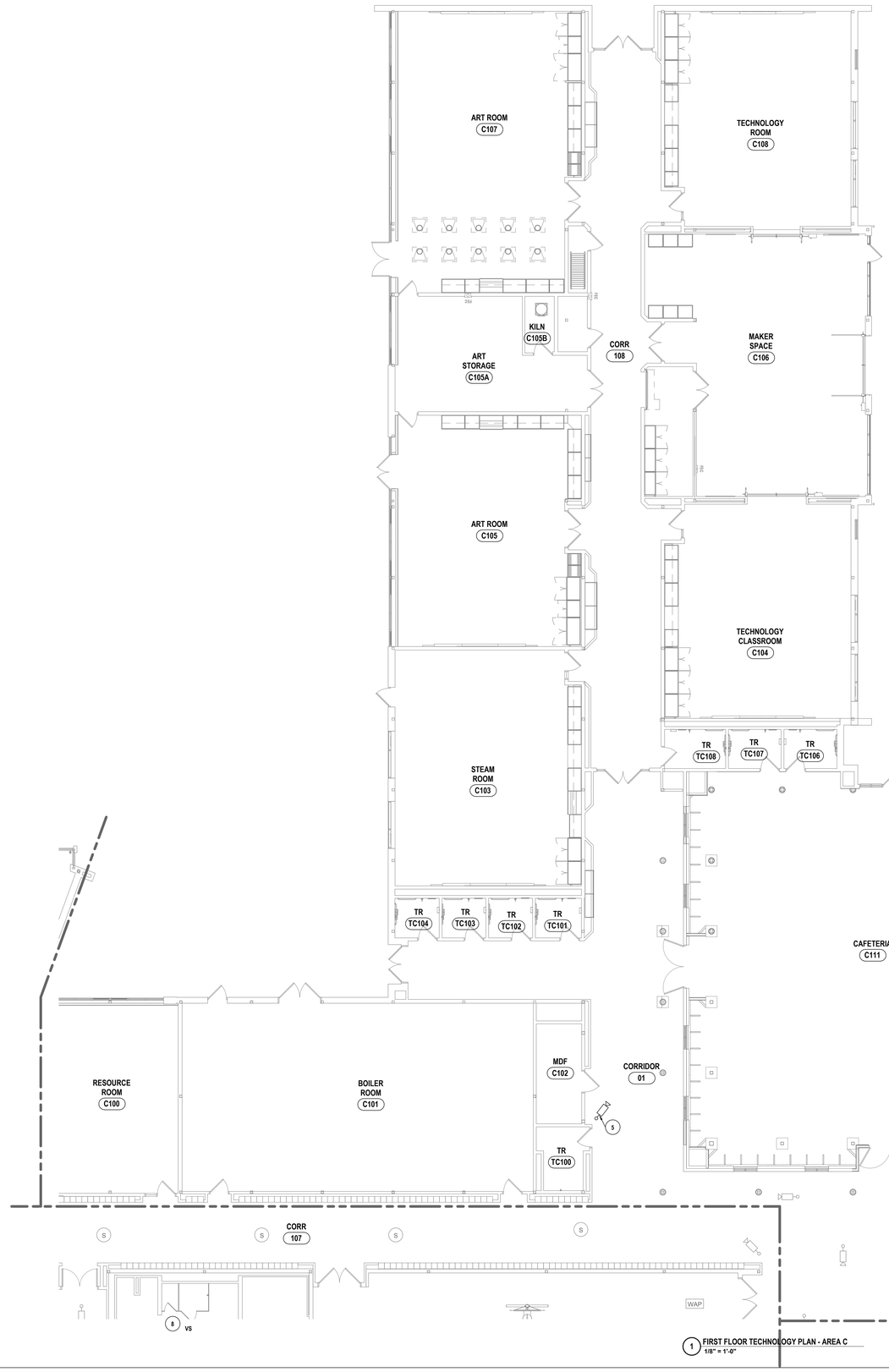
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NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131464-1

FIRST FLOOR TECHNOLOGY PLAN - AREA B2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

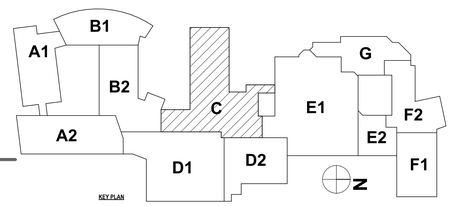
SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T1.5

PROJECT NO: 2012-254



1 FIRST FLOOR TECHNOLOGY PLAN - AREA C
1/8" = 1'-0"



KEY PLAN

GENERAL NOTES - TECHNOLOGY

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1	10/07/2025	ISSUED FOR BID

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CHECKED BY: JLS
DATE: 07/24/2026
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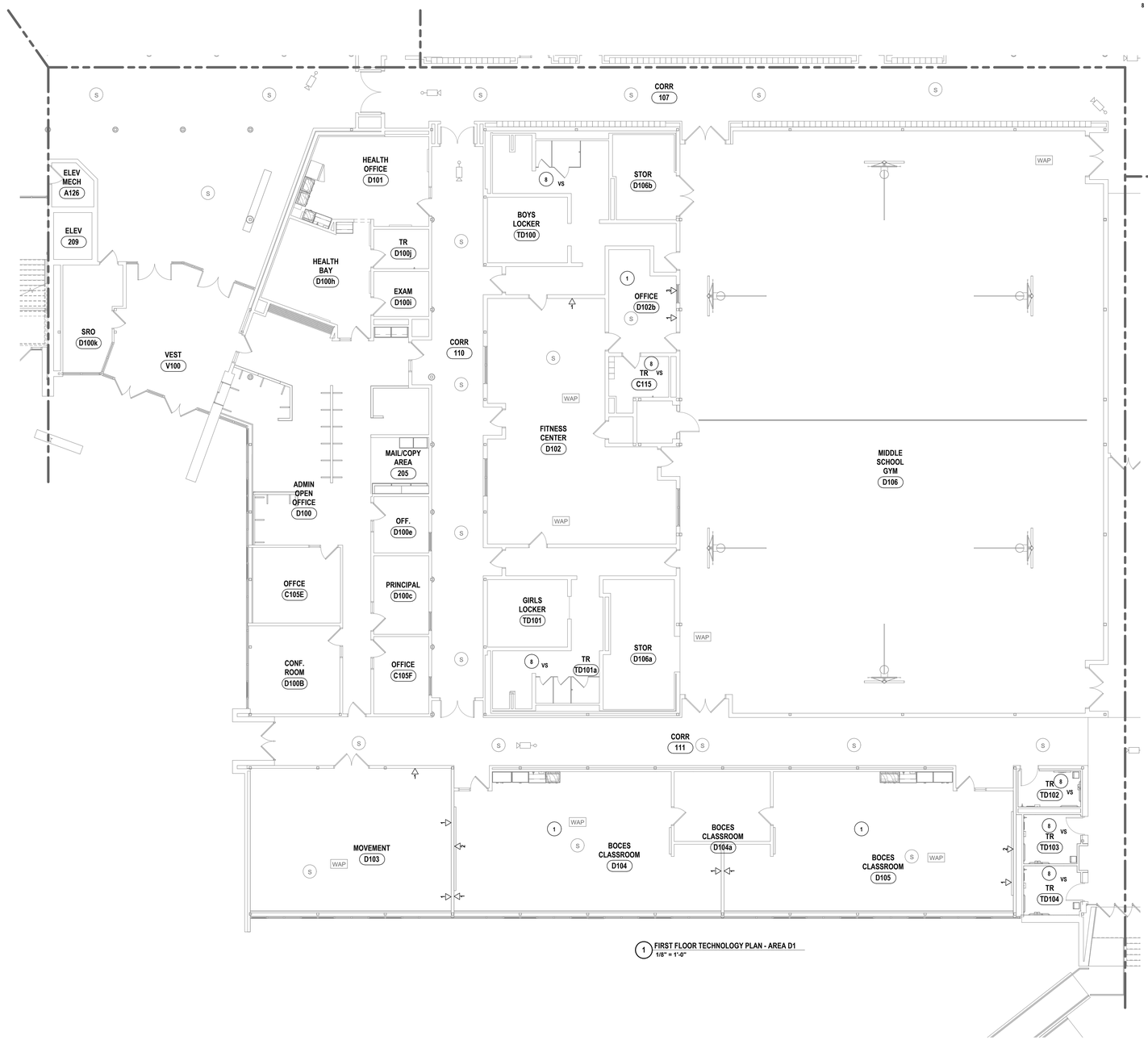
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FIRST FLOOR TECHNOLOGY PLAN - AREA C
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T1.6

PROJECT NO: 2012-254



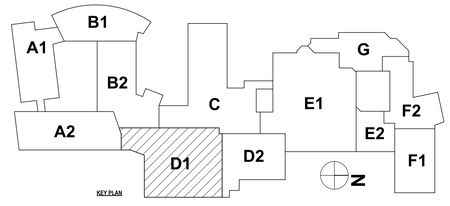
1 FIRST FLOOR TECHNOLOGY PLAN - AREA D1
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6. PROVIDE PRESENTATION DISPLAY. REFER TO SPECIFICATIONS.
7. PROVIDE NETWORK EQUIPMENT RACK COMPONENTS PER SPECIFICATIONS.
8. REPLACE CABLING FOR EXISTING VAPE SENSOR. REFER TO SPECIFICATION.

GENERAL NOTES - TECHNOLOGY

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- B. WHEN INSTALLING CEILING MOUNTED DEVICES, ADJUST LOCATION TO AVOID OTHER CEILING MOUNTED DEVICES SUCH AS EXIT SIGNS, ETC.
- C. ALL DATA CABLING SHALL BE PLENUM RATED.
- D. OWNER TO APPROVE FINAL LOCATION AND VIEW OF ALL CAMERAS.
- E. ALL ELECTRONIC SERVICES NEED TO BE COORDINATED WITH OWNER PRIOR TO REMOVAL AND DISCONNECTION.
- F. ALL CEILING MOUNTED DEVICES TO BE SUPPORTED BY STRUCTURE ABOVE. DO NOT USE CEILING GRID AS SOLE SUPPORT MECHANISM
- G. ALL WALL OUTLETS SHALL BE LOCATED WITHIN 36" OF THE NEAREST POWER OUTLET AND AT THE SAME ELEVATION.
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- M. INTERACTIVE DISPLAY LOCATION SHOWN FOR REFERENCE. REFER TO NOTES FOR CABLING REQUIREMENTS.



KEY PLAN

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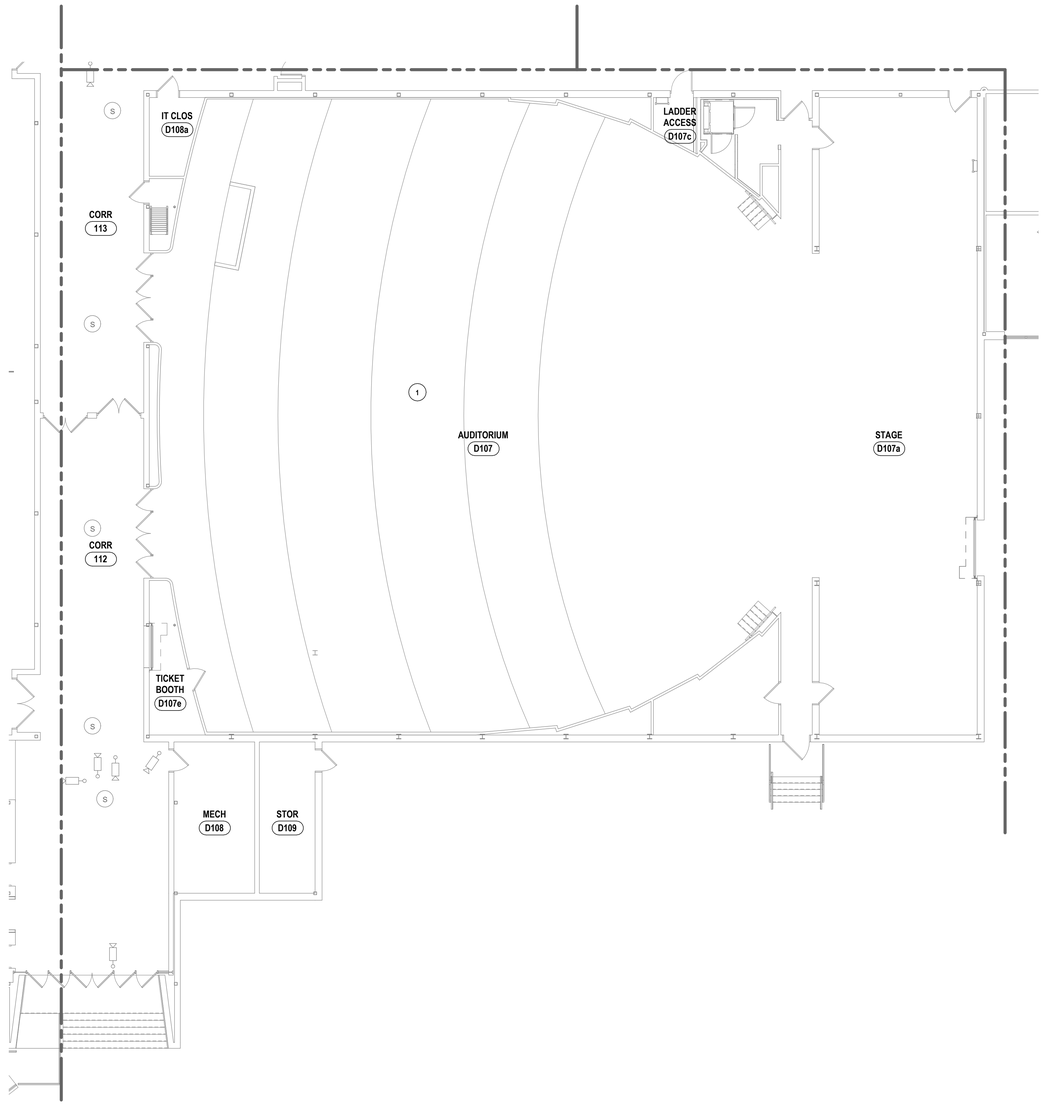
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NY CERTIFICATE NO. 001220 PA CERTIFICATE NO. TSC2203131464-1

FIRST FLOOR TECHNOLOGY PLAN - AREA D1
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T1.7

PROJECT NO: 2012-254



1 FIRST FLOOR TECHNOLOGY PLAN - AREA D2
1/8" = 1'-0"

CONSTRUCTION NOTES - TECHNOLOGY

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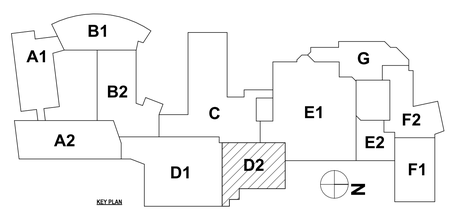
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FIRST FLOOR TECHNOLOGY PLAN - AREA D2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

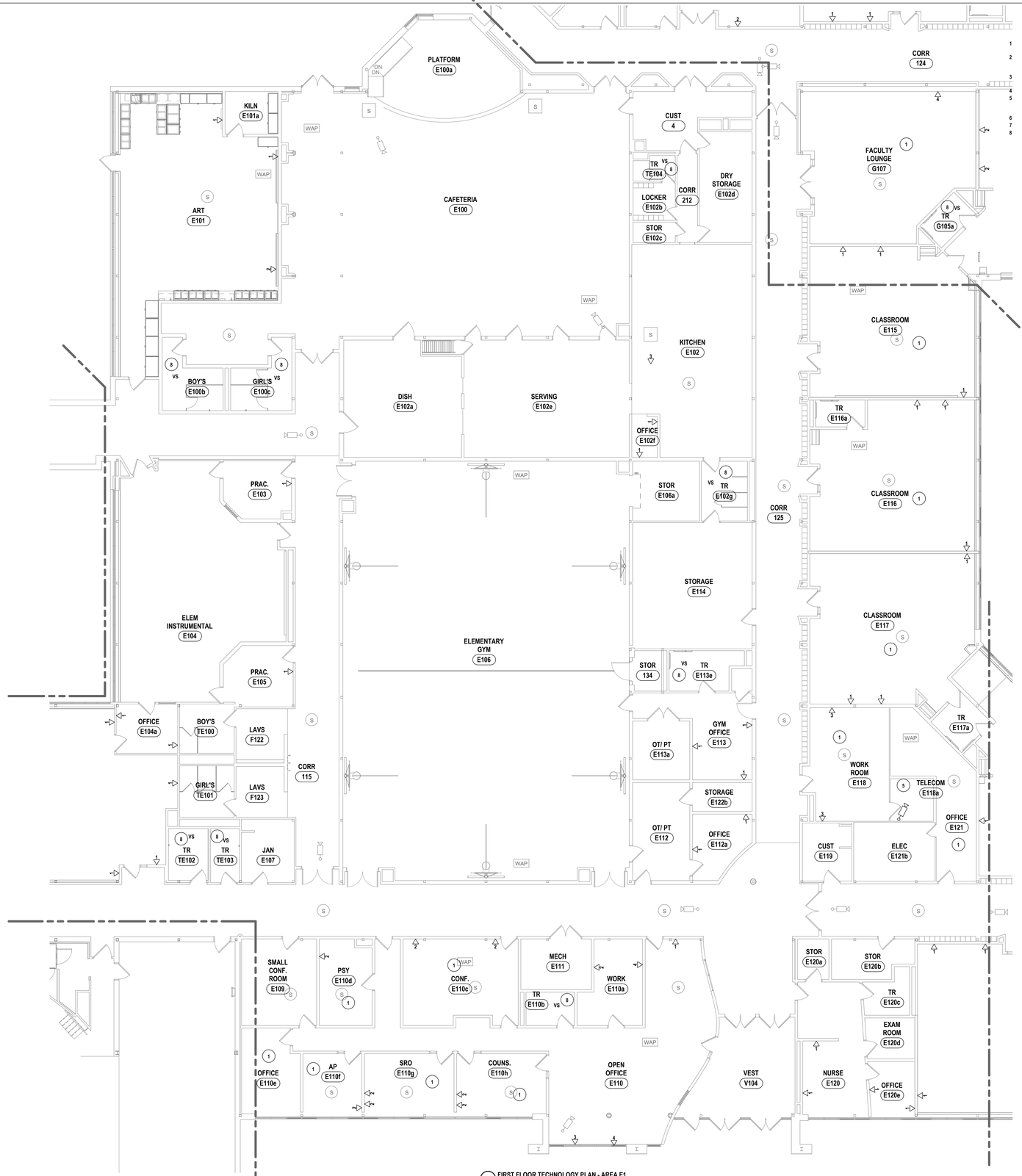
SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T1.8

PROJECT NO: 2012-254



KEY PLAN



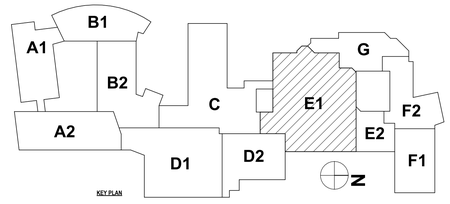
1 FIRST FLOOR TECHNOLOGY PLAN - AREA E1
1/8" = 1'-0"

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FIRST FLOOR TECHNOLOGY PLAN - AREA E1
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T1.9

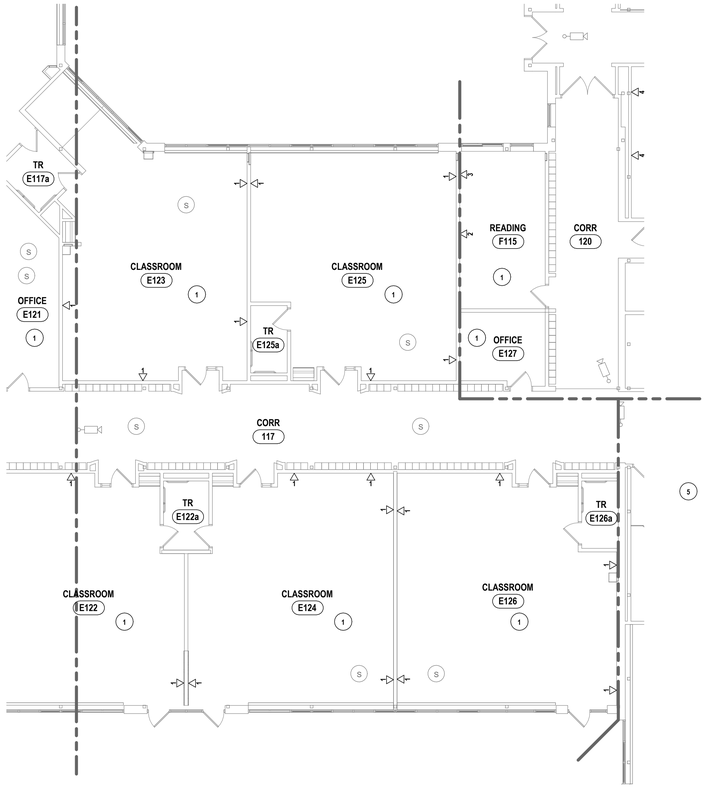
PROJECT NO: 2012-254

CONSTRUCTION NOTES - TECHNOLOGY

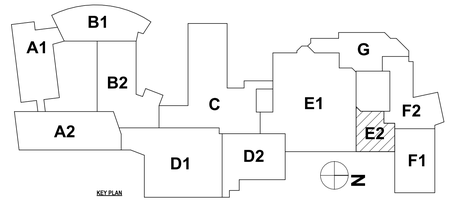
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1 FIRST FLOOR TECHNOLOGY PLAN - AREA E2
1/8" = 1'-0"



SED #: 61-06-00-01-0-034-027, 07-06-00-01-0-034-028

DRAWN BY: LAD
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FIRST FLOOR TECHNOLOGY PLAN - AREA E2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

BR-T1.10

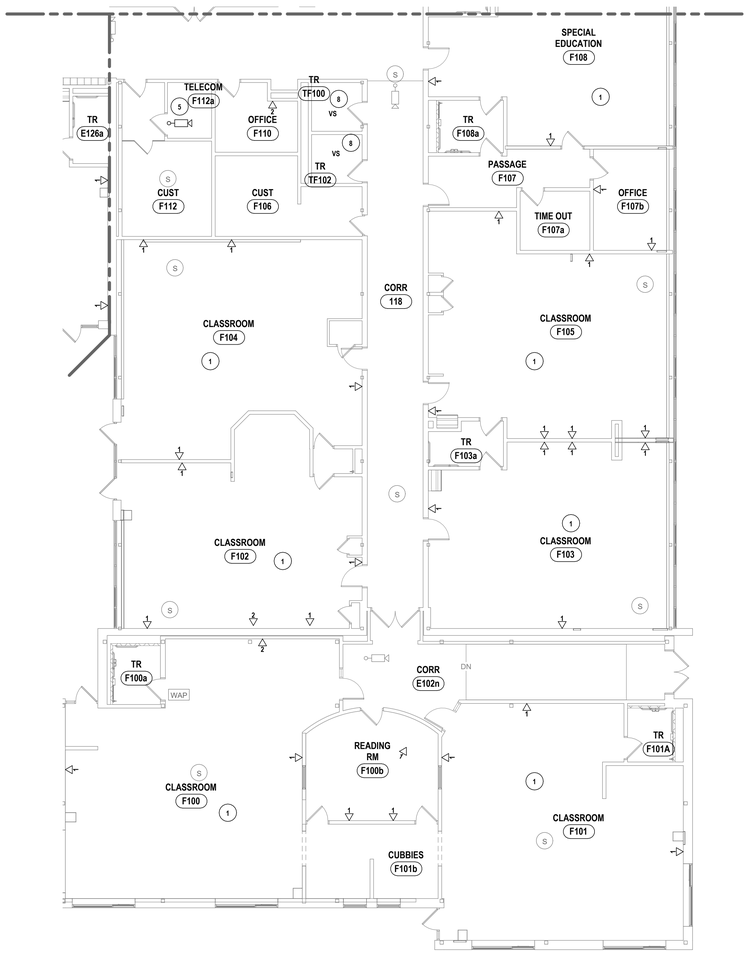
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CONSTRUCTION NOTES - TECHNOLOGY

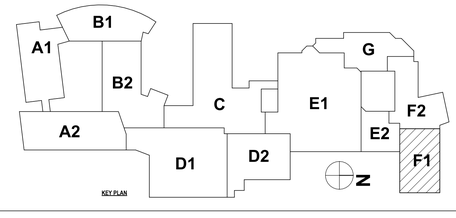
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1 FIRST FLOOR TECHNOLOGY PLAN - AREA F1
1/8" = 1'-0"



KEY PLAN

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FIRST FLOOR TECHNOLOGY PLAN - AREA F1
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

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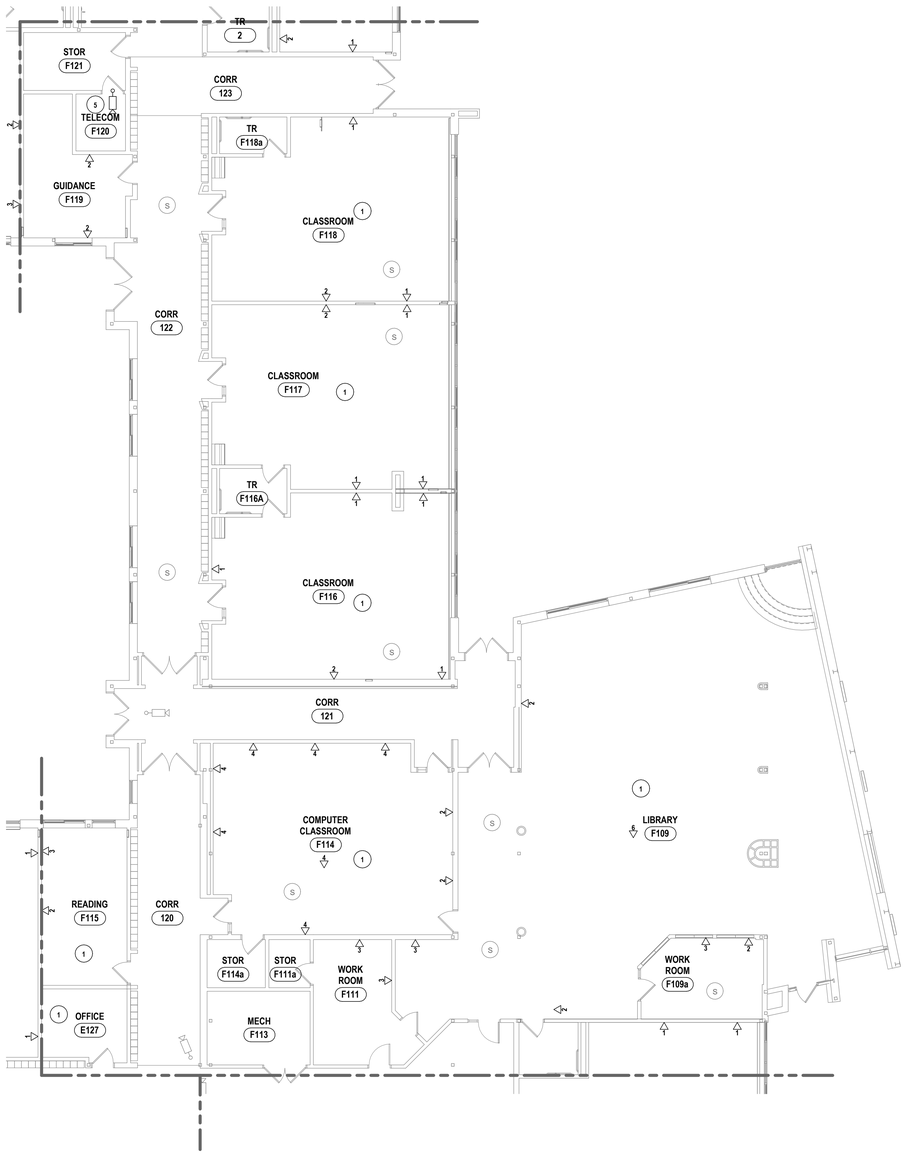
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CONSTRUCTION NOTES - TECHNOLOGY

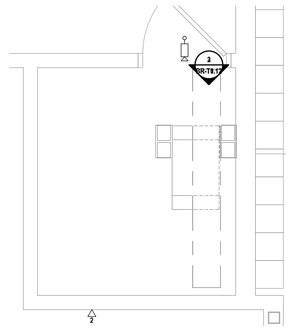
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E ALL ELECTRONIC SERVICES NEED TO BE COORDINATED WITH OWNER PRIOR TO REMOVAL AND DISCONNECTION.
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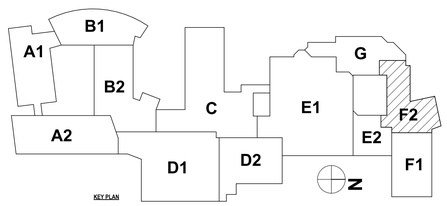
1 FIRST FLOOR TECHNOLOGY PLAN - AREA F2
1/8" = 1'-0"



2 IDF- ROOM F120 ENLARGED VIEW
1/2" = 1'-0"



3 IDF- ROM F120 ELEVATION VIEW
1/2" = 1'-0"



KEY PLAN

	DRAWN BY:	LAD
	CHECKED BY:	JLS
	DATE:	07/24/2026
	PHASE:	CD

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FIRST FLOOR TECHNOLOGY PLAN - AREA F2
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T1.12

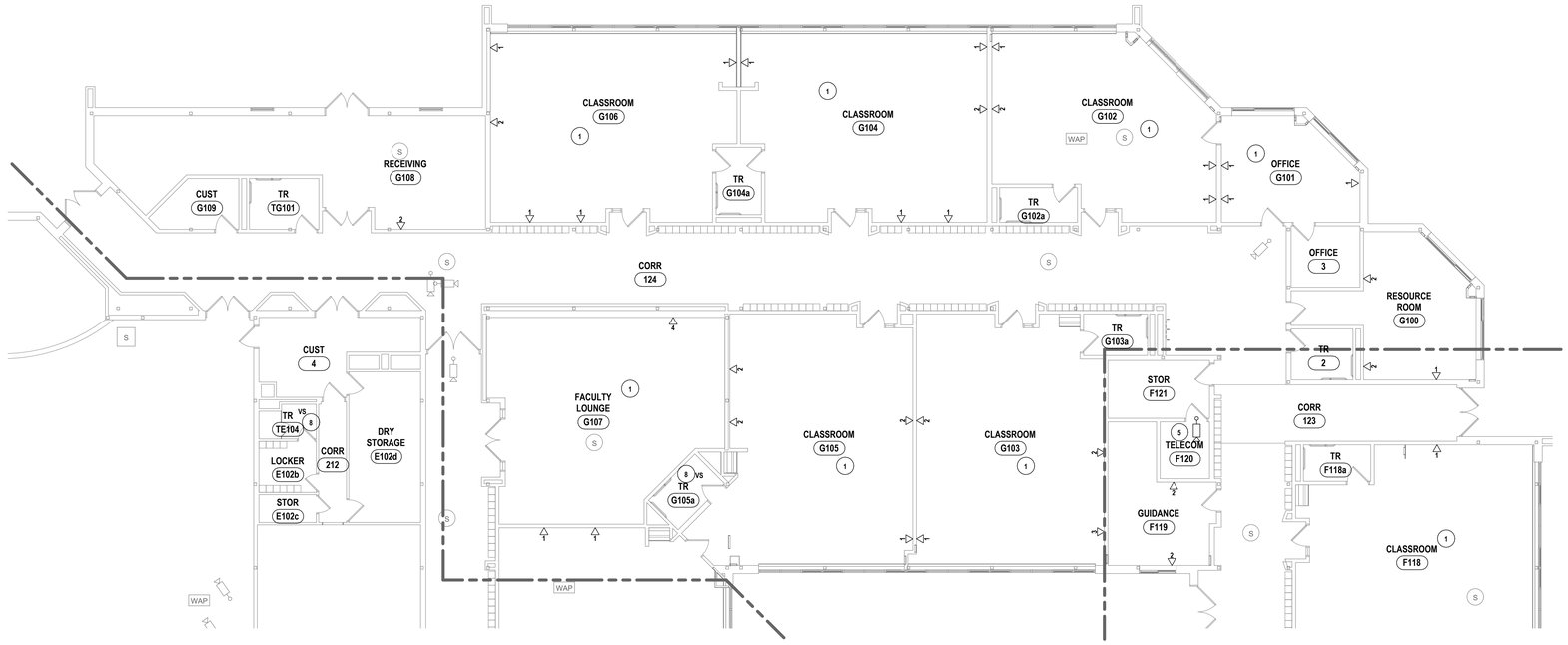
PROJECT NO: 2012-254

CONSTRUCTION NOTES - TECHNOLOGY

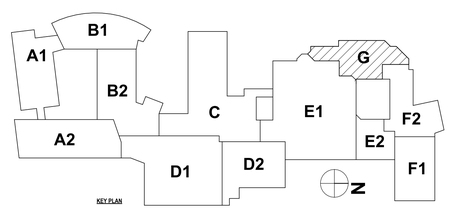
1 TELECOMMUNICATIONS OUTLET. REQUIRES CABLING AND COMPONENTS PER SPECIFICATIONS & DETAILS.
2 EXISTING WIRELESS ACCESS POINT TO BE REINSTALLATED. REINSTALL AND TEST CABLING AND FUNCTIONALITY AFTER ALL WORK IS COMPLETE AND PRIOR TO TURNOVER TO OWNER.
3 EXISTING PAGING SPEAKER TO BE REINSTALLED. REINSTALL AND TEST CABLING AND FUNCTIONALITY AFTER ALL WORK IS COMPLETE AND PRIOR TO TURNOVER TO OWNER.
4 TELECOM ROOM CAMERA TO BE INSTALLED. CAMERA BASIS OF DESIGN: CISCO.
5 SURVEILLANCE CAMERA REQUIRES CABLING PER SPECIFICATIONS AND DETAILS. SURVEILLANCE CAMERA INSTALLATION AND ASSOCIATED COMPONENTS BY OWNER AND SYSTEM INTEGRATOR.
6 PROVIDE PRESENTATION DISPLAY. REFER TO SPECIFICATIONS.
7 PROVIDE NETWORK EQUIPMENT RACK COMPONENTS PER SPECIFICATIONS.
8 REPLACE CABLING FOR EXISTING VAPE SENSOR. REFER TO SPECIFICATION.

GENERAL NOTES - TECHNOLOGY

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1 FIRST FLOOR TECHNOLOGY PLAN - AREA G
1/8" = 1'-0"



KEY PLAN

SED #: 67-06-00-01-0-034-027, 67-06-00-01-0-034-028

DRAWN BY:	LAD
CHECKED BY:	JLS
DATE:	07/24/2026
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FIRST FLOOR TECHNOLOGY PLAN - AREA G
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

BR-T1.13

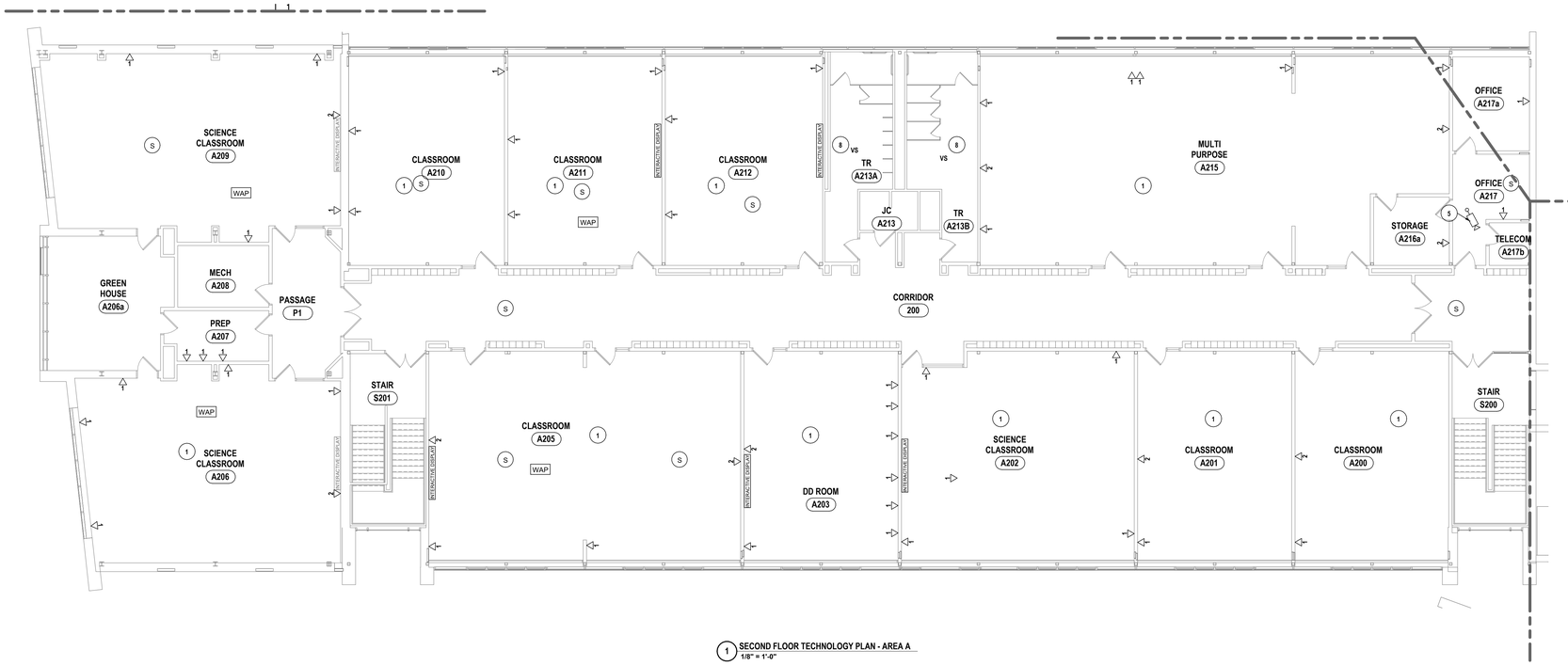
PROJECT NO: 2012-254

CONSTRUCTION NOTES - TECHNOLOGY

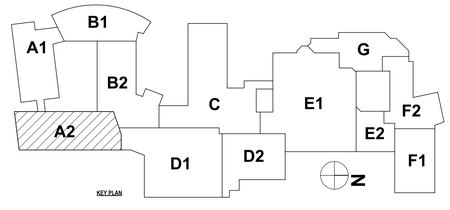
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1 SECOND FLOOR TECHNOLOGY PLAN - AREA A
1/8" = 1'-0"



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1	10/07/2025	ISSUED FOR BID

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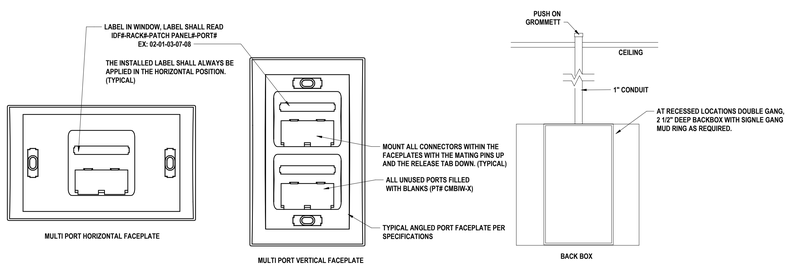
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SECOND FLOOR TECHNOLOGY PLAN - AREA A
BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY
ELMIRA CITY SCHOOL DISTRICT
1000 BROADWAY ST, ELMIRA, NY 14904

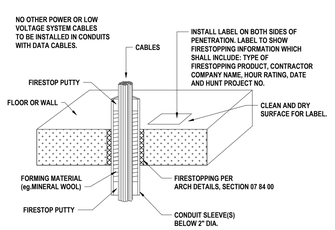
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BR-T1.14

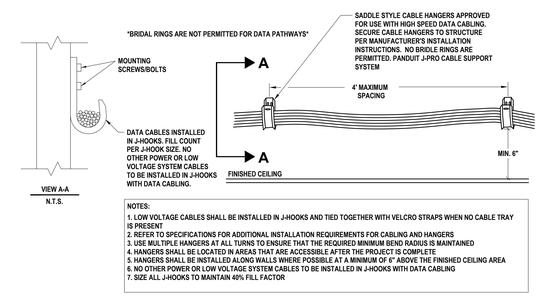
PROJECT NO: 2012-254



4 DATA STATION OUTLET
NTS



2 CONDUIT PENETRATION DETAIL
NTS



NOTES:
1. LOW VOLTAGE CABLES SHALL BE INSTALLED IN J-HOOKS AND TIED TOGETHER WITH VELCRO STRAPS WHEN NO CABLE TRAY IS PRESENT
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS FOR CABLING AND HANGERS
3. USE MULTIPLE HANGERS AT ALL TURNS TO ENSURE THAT THE REQUIRED MINIMUM BEND RADIUS IS MAINTAINED
4. HANGERS SHALL BE LOCATED IN AREAS THAT ARE ACCESSIBLE AFTER THE PROJECT IS COMPLETE
5. HANGERS SHALL BE INSTALLED ALONG WALLS WHERE POSSIBLE AT A MINIMUM OF 6" ABOVE THE FINISHED CEILING AREA
6. NO OTHER POWER OR LOW VOLTAGE SYSTEM CABLES TO BE INSTALLED IN J-HOOKS WITH DATA CABLING
7. SIZE ALL J-HOOKS TO MAINTAIN 40% FILL FACTOR

1 CABLE SUPPORT INSTALLATION
NTS

NOTE: THIS DETAIL APPLIES TO BOTH NEW AND EXISTING CABLING HANDLED BY THE CONTRACTOR THIS PROJECT.

3 CABLE LABELING DETAIL
NTS

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TECHNOLOGY DETAILS

BROADWAY 2026 RENOVATIONS & CAPITAL OUTLAY

ELMIRA CITY SCHOOL DISTRICT

1000 BROADWAY ST, ELMIRA, NY 14904

SED #: 07-06-00-01-0-034-027, 07-06-00-01-0-034-028

BR-T2.1

PROJECT NO: 2012-254

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