BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

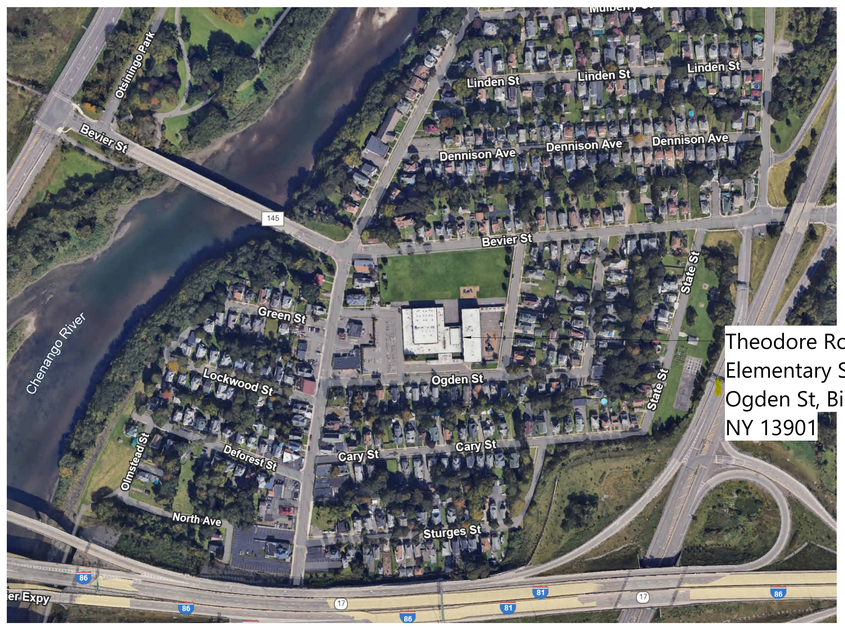
ISSUED FOR BID: 03/12/2026

CSARCH - ARCHITECTS & M.E.P. ENGINEERS
PASSERO ASSOCIATES - STRUCTURAL & CIVIL ENGINEERS
ATLANTIC TESTING LABORATORIES - ENVIRONMENTAL ENGINEERS
ENGINEERED SOLUTIONS - FIRE PROTECTION ENGINEERS

STATE EDUCATION DEPARTMENT PROJECT CONTROL NUMBER:
2024 CAPITAL PROJECT 03-02-00-01-0-010-014

THE DESIGN OF THIS PROJECT CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

CSArch PROJECT NO. 215-2402



Theodore Roosevelt Elementary School, 9 Ogden St, Binghamton, NY 13901

VICINITY MAP NTS

DRAWING LIST - VOLUME 1

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DRAWING LIST - VOLUME 2

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DRAWING LIST - VOLUME 4

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FA301 FIRE ALARM ENLARGED PLANS

VOLUME 1 OF 4

REGISTERED ARCHITECT
JOHN DOUGLAS PASSERO
No. 025853
STATE OF NEW YORK
EXPIRES: 1/31/2026

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
ADA	AMERICANS WITH DISABILITIES ACT
ADD	ADDENDUM
ADMIN	ADMINISTRATIVE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT / ARCHITECTURAL
AV	AUDIO VISUAL
BLDG	BUILDING
BOT OR B/	BOTTOM OF
BSMT	BASEMENT
CJ	CONTROL / CONSTRUCTION JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
ED	EDUCATION
EIFS	EXTERIOR INSULATION FINISH SYSTEM
ELECT	ELECTRIC / ELECTRICAL
ELEV	ELEVATION
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
EXST	EXISTING
EJ	EXPANSION JOINT
EXT	EXTERIOR
FIN	FINISH
FIN FL	FINISH FLOOR
FIXT	FIXTURE
FLR	FLOOR
FRT	FIRE-RETARDANT-TREATED MATERIAL
FTG	FOOTING
G	GROUND
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZE(D)
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALL BOARD
GWBS	GYPSUM WALL BOARD SOFFIT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR CONDITIONING
ID	INSIDE DIMENSION
IN	INCH
INT	INTERIOR
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT
LAB	LABORATORY
LB	POUND
LIN	LINEAR
LVL	LEVEL
MAN	MANUAL
MAS	MASONRY
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPT	OPTIONAL
OVR	OVERALL
OZ	OUNCE
PERIM	PERIMETER
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
POLYISO	POLYISOCYANURATE
PPT	PRESSURE PRESERVATIVE TREATED
PR	PAIR
PREP	PREPARATORY
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
RAD	RADIUS
REQD	REQUIRED
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
SCH	SCHEDULED
SECT	SECTION
SF	SQUARE FEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL / STRUCTURE
SUSP	SUSPENDED
SAC	SUSPENDED ACOUSTICAL CEILING
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TECH	TECHNOLOGY
TEMP	TEMPORARY
TMPD	TEMPERED
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
WPT	WOOD PRESERVED-TREATED MATERIAL
WGT	WEIGHT
YD	YARD

ARCHITECTURAL LEGEND

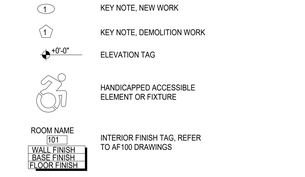
MATERIAL INDICATIONS

- EARTH
- GRANULAR FILL
- BRICK
- CONCRETE MASONRY UNIT
- CONCRETE
- GROUT
- ROUGH WOOD BLOCKING
- SHIM
- FINISH WOOD
- PLYWOOD
- SHEATHING
- RIGID INSULATION
- BATT INSULATION
- SPRAY FOAM INSULATION
- EPS INSULATION
- STEEL

DIMENSIONING CONVENTIONS

- FACE OF STUD OR CMU
- COLUMN CENTER LINE

SYMBOLS



- ROOM NAME
- ROOM NUMBER
- AREA OF ROOM
- DOOR NUMBER, REFER TO A900 DRAWINGS
- WINDOW TAG, REFER TO A900 DRAWINGS
- BORROWED LIGHT NUMBER, REFER TO A900 DRAWINGS
- STOREFRONT / CURTAINWALL NUMBER, REFER TO A900 DRAWINGS
- COLUMN GRID DESIGNATION (NEW CONSTRUCTION)
- COLUMN GRID DESIGNATION (EXISTING CONSTRUCTION)
- PARTITION TAG, REFER TO A700 DRAWINGS
- HOUR RATING OF PARTITION
  ADDITIONAL NOTES FOR PARTITION
- REVISION NUMBER
- KEY NOTE, NEW WORK
- KEY NOTE, DEMOLITION WORK
- ELEVATION TAG
- HANDICAPPED ACCESSIBLE ELEMENT OR FIXTURE



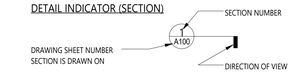
- INTERIOR FINISH TAG, REFER TO AF100 DRAWINGS

DETAIL INDICATOR LEGEND

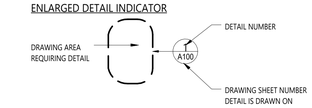
SECTION INDICATOR



DETAIL INDICATOR (SECTION)



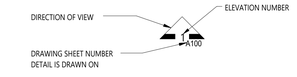
ENLARGED DETAIL INDICATOR



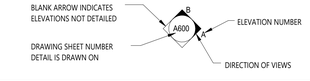
DETAIL TITLE



EXTERIOR ELEVATION INDICATOR



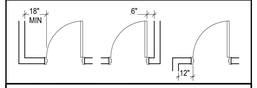
INTERIOR ELEVATION INDICATOR



PLAN GRAPHICS LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- NEW CONCRETE MASONRY WALL
- NEW METAL STUD WALL
- NEW BRICK VENEER
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED
- NEW DOOR

FINISHED DOOR OPENINGS SHALL BE LOCATED AS INDICATED BELOW UNO. DIMENSIONS SHOWN ARE CLEAR DIMENSIONS FROM INSIDE OF FRAME TO WALL FINISH.



GENERAL NOTES

1. DIMENSIONS ARE GIVEN THUS (UNLESS NOTED OTHERWISE)
   A. TO FACE OF MASONRY WALL
   B. TO FACE OF METAL STUD
   C. TO COLUMN CENTERLINES
   D. TO FINISH FACE OF SOFFIT OR CEILING
   E. FACE OF EXISTING CONSTRUCTION
2. DO NOT SCALE DRAWINGS. IF A DIMENSION IS NOT SHOWN, BRING IT TO THE ATTENTION OF THE ARCHITECT FOR VERIFICATION BEFORE PROCEEDING WITH THE ASSOCIATED WORK
3. WALLS ON COLUMN LINES ARE CENTERED, UNO
4. ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE VERIFIED IN FIELD. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK IN THAT AREA.
5. LAYOUT OF TOILET FIXTURES AND ACCESSIBILITY CLEARANCES ARE SHOWN AS CLEAR DIMENSION. CONTRACTORS ARE REQUIRED TO COORDINATE LAYOUTS OF PARTITIONS, UTILITY CONNECTIONS, AND THICKNESS OF FINISHES TO ALLOW THESE CLEAR DIMENSIONS.
6. ALL ELEVATIONS (X'-X") ARE REFERENCE FROM FIRST FLOOR ELEVATION
7. ALL WOOD LUMBER IN CONTACT WITH EXTERIOR WALL CONCRETE OR MASONRY, OR WITHIN 18" OF GRADE SHALL BE PRESSURE TREATED.
8. ALL WOOD LUMBER BLOCKING WITHIN FIRE RATED WALL PARTITIONS OR FLOOR ASSEMBLIES SHALL BE FIRE RETARDANT TREATED.
9. ALL FLOOR PENETRATIONS SHALL BE SMOKE-SEALED AND /OR FIRE STOPPED. COORDINATE WITH 'M' DWGS FOR SMOKE / FIRE DAMPER REQUIREMENTS.
10. ALL EXPOSED SURFACES OF NEW PARTITIONS AND SOFFITS ARE TO BE FINISHED.

CSARCH
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Project Title

BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT



EXPIRES: 1/31/2026

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Issued for Bid:	03/12/2026

Sheet Title

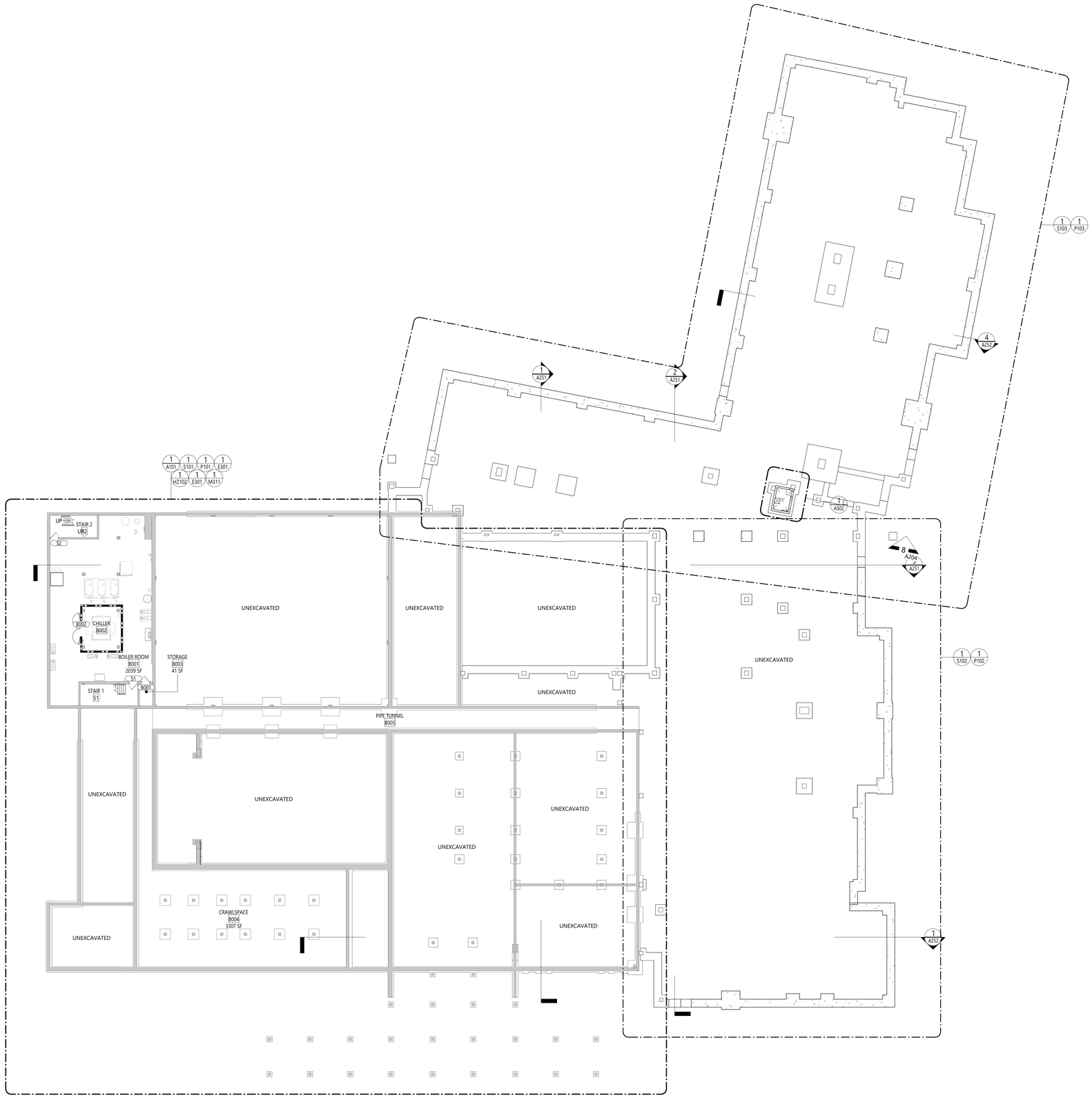
SYMBOLS, ABBREVIATIONS, AND MISC

Sheet No.

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G001

CONSTRUCTION DOCUMENTS

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1 G101 OVERALL BASEMENT FLOOR PLAN
1/16" = 1'-0"

N

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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

REGISTERED ARCHITECT
CHRISTOPHER J. MARTINSON
No. 025803
STATE OF NEW YORK
EXPIRES: 1/31/2026

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	03-02-00-01-0-010-014
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Issued for Bid:	03/12/2026

Sheet Title

OVERALL BASEMENT FLOOR PLAN

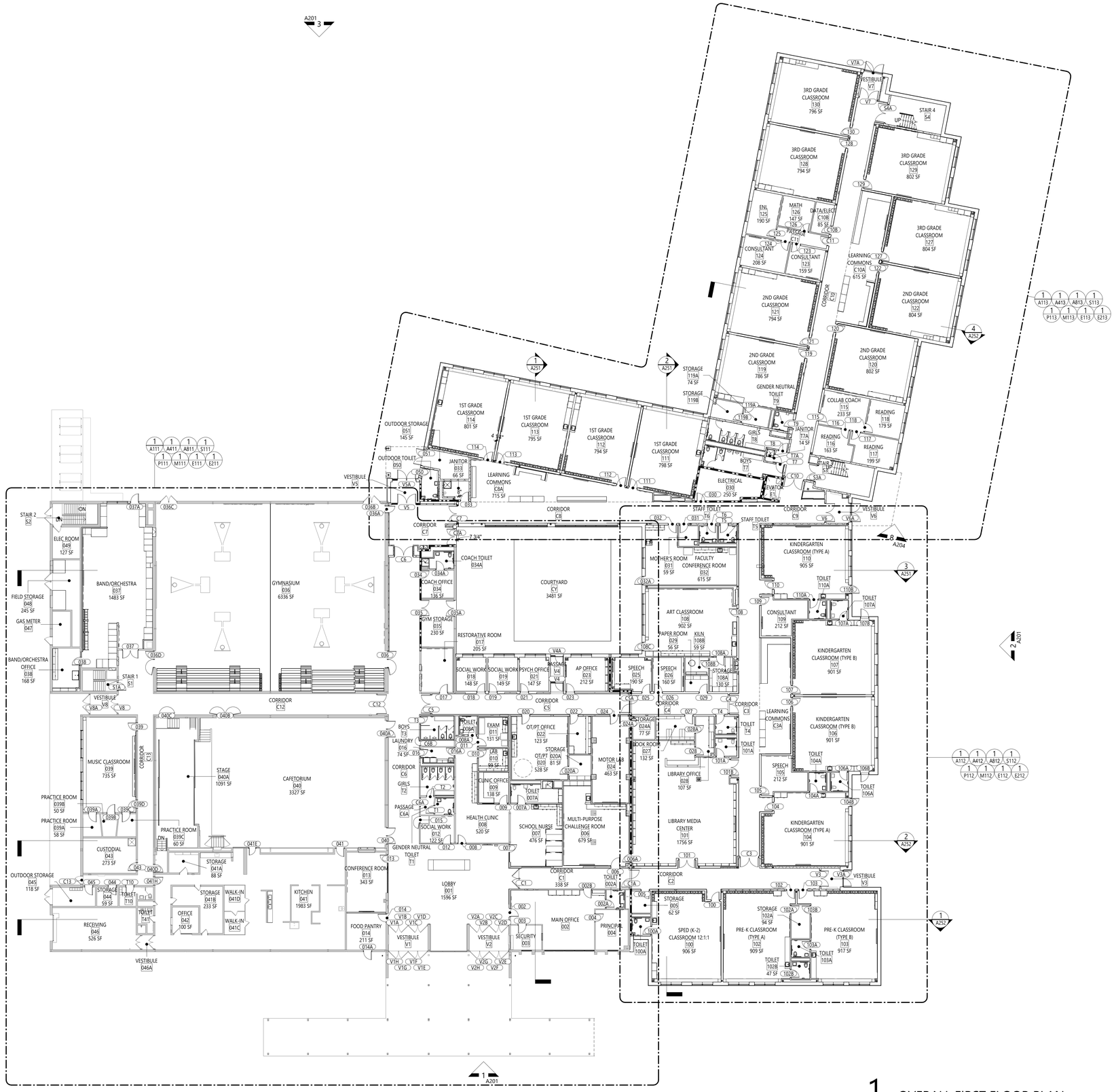
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1 OVERALL FIRST FLOOR PLAN
G111 1/16" = 1'-0"

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Project Title

BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

REGISTERED ARCHITECT CHRISTOPHER M. SCHNEIDER 028880 STATE OF NEW YORK
EXPIRES: 1/31/2026

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Issued for Bid:	01/12/2026

Sheet Title

OVERALL FIRST FLOOR PLAN

Sheet No.

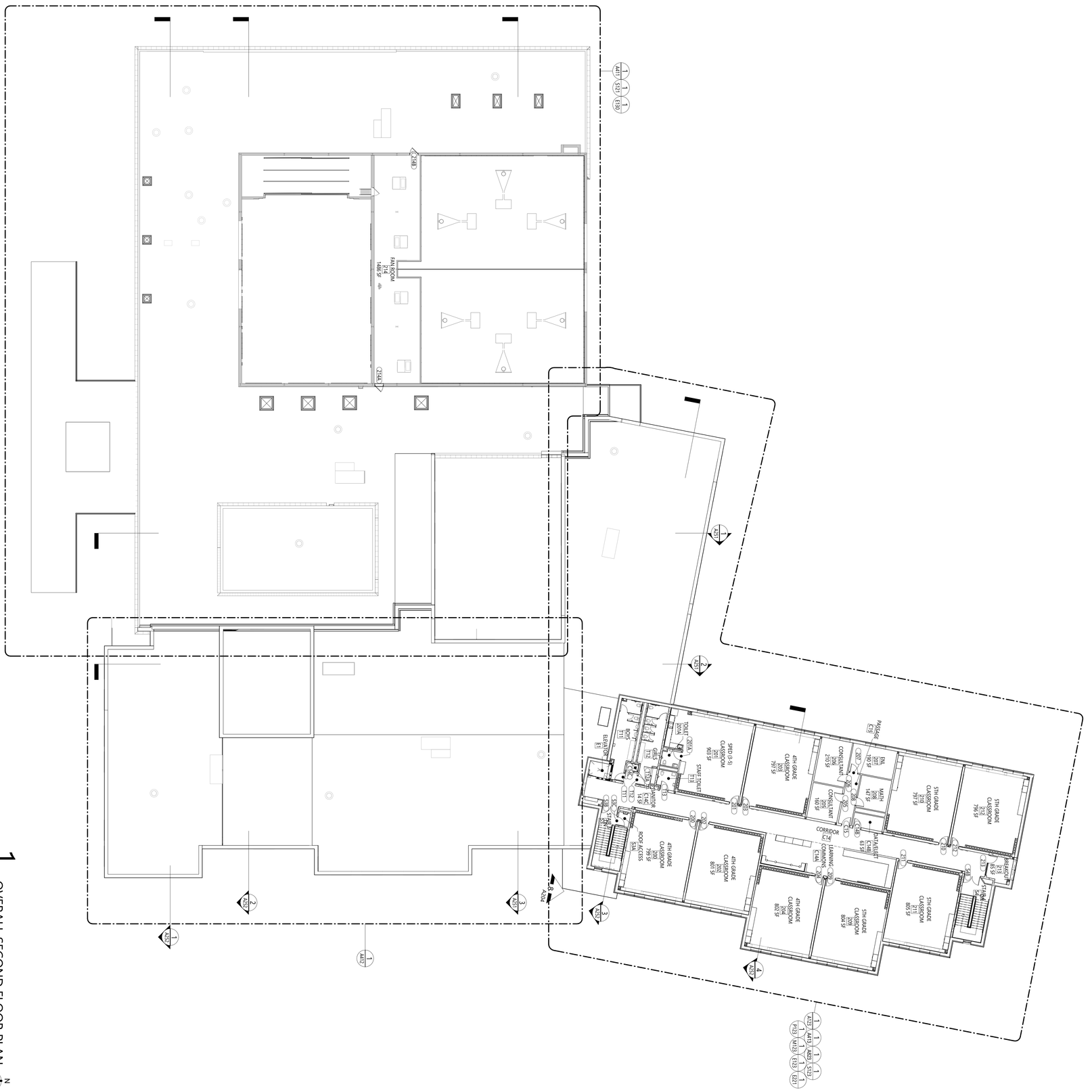
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1 OVERALL SECOND FLOOR PLAN
1/16" = 1'-0"

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Prot. #:	09-R-00-01-0-009-014
CSArch Proj. #:	215-2402
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Sheet Title: OVERALL SECOND FLOOR PLAN

Sheet No.: TR G121

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REGISTERED ARCHITECT — JAMES A. STEVENS — 027170 — STATE OF NEW YORK

Project Title

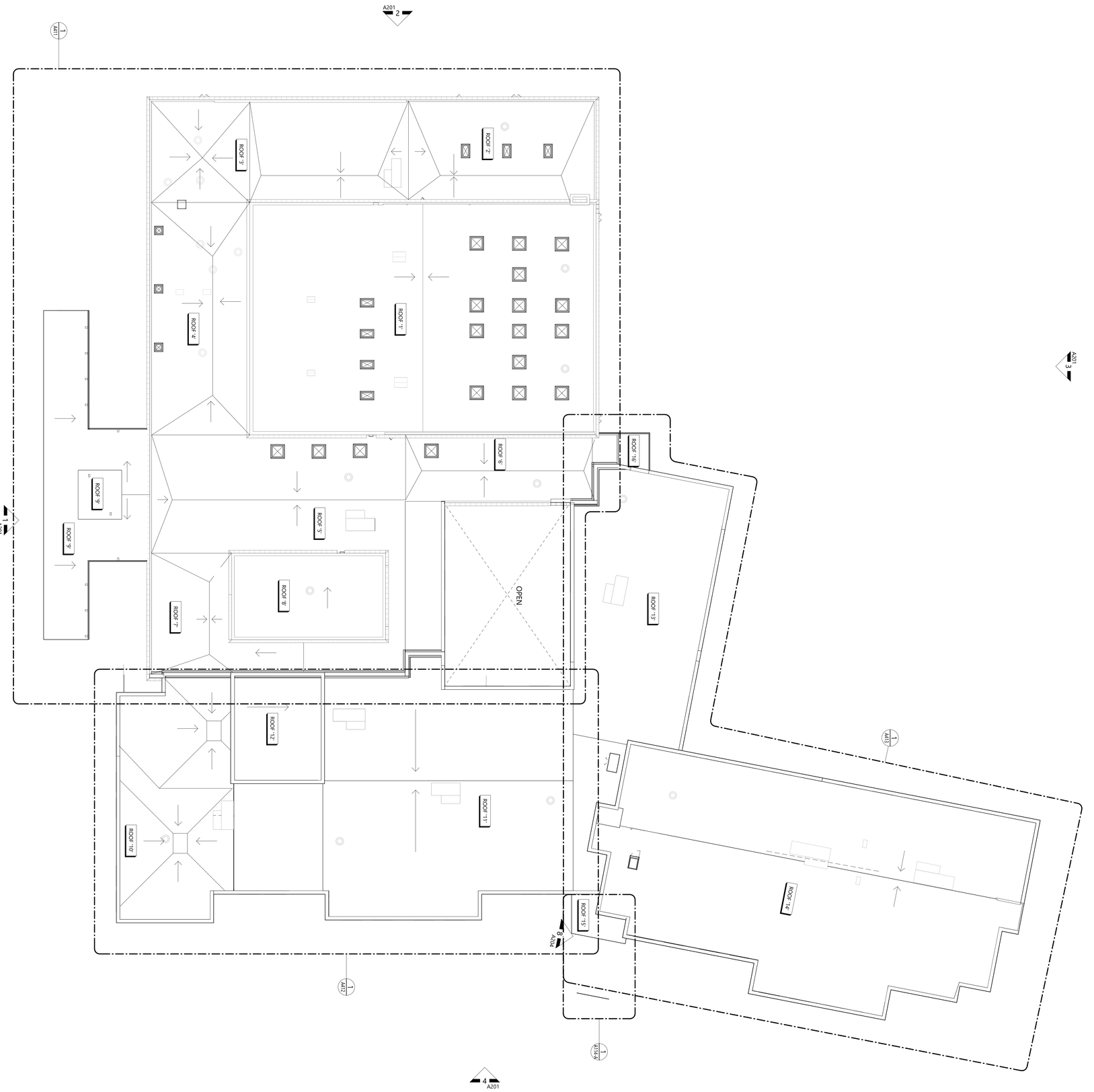
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

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1 OVERALL ROOF PLAN
G400 1/16" = 1'-0"

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CONSTRUCTION DOCUMENTS

Sheet No.
TR
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Sheet Title
OVERALL
ROOF PLAN

Drawn By: Author
Checked By: Checker
Proj. #: 09-00-00-0-000-014
CSArch Proj. #: 215-2402
Issued for Bid 09/13/2024

#	DATE	DESCRIPTION

REGISTERED ARCHITECT
STATE OF NEW YORK
EXPIRES: 12/31/2026

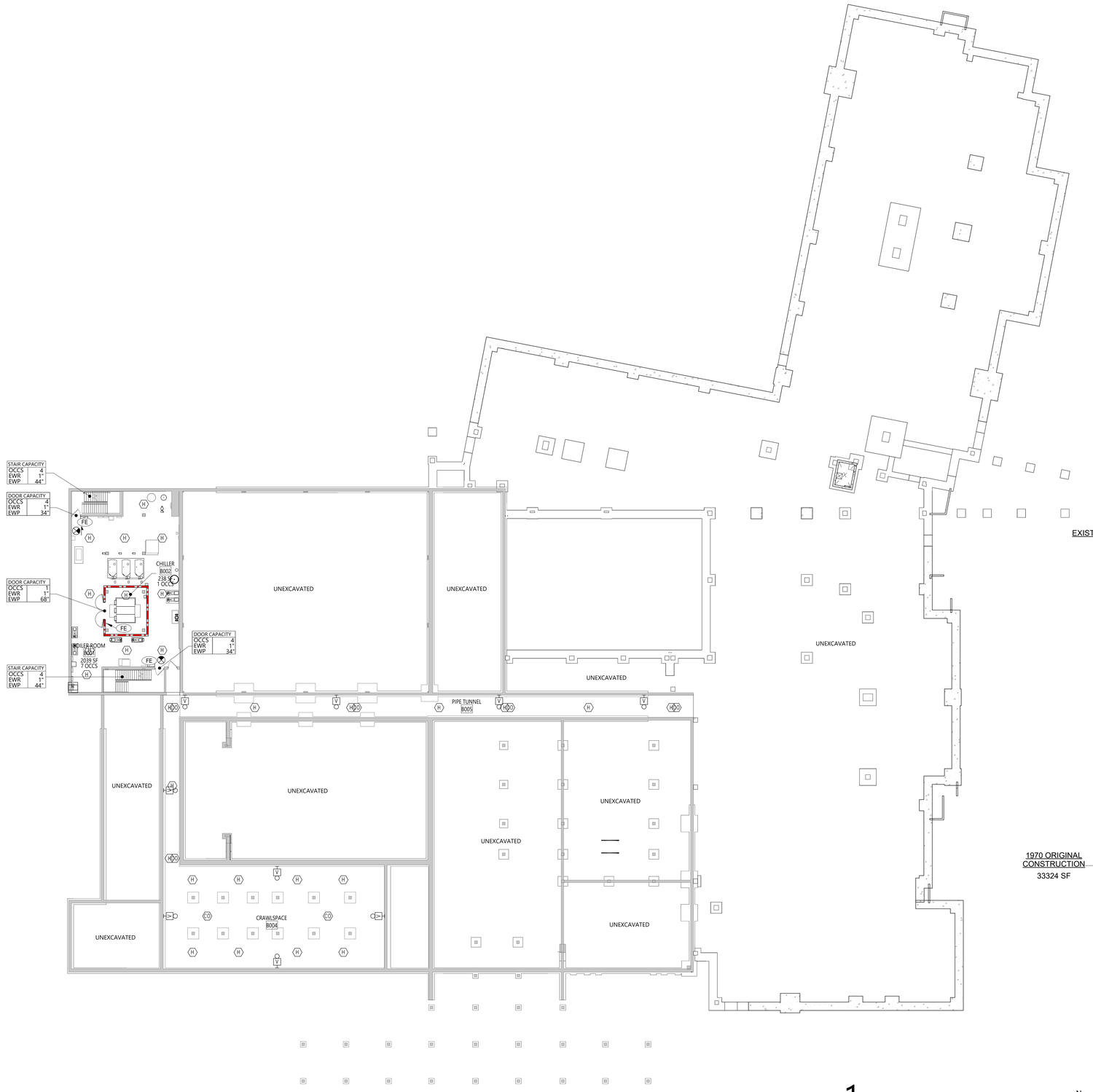
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THEODORE ROOSEVELT ELEMENTARY SCHOOL
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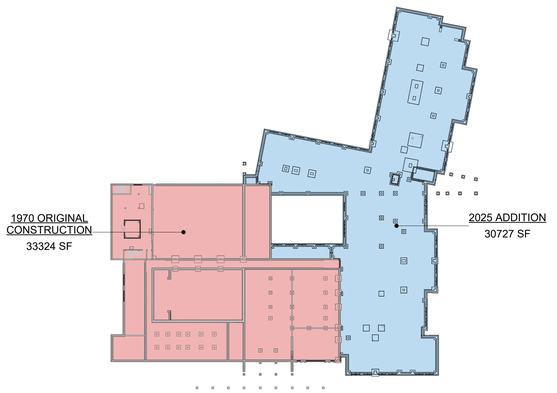
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1 LS101 BASEMENT LIFE SAFETY PLAN 1/16" = 1'-0"

3 LS101 EXISTING FLOOR AREA - BASEMENT 1" = 60'-0"



2 LS101 BUILDING VINTAGE - BASEMENT 1" = 60'-0"

LIFE SAFETY PLAN LEGEND

- (P) PRIMARY EXIT
- (S) SECONDARY EXIT
- (R) RESCUE WINDOW (SECONDARY EXIT)
- ACCESSIBLE EXIT
- RESCUE ASSISTANCE STATION/AREA OF REFUGE
- ## OCCS (## OCCS) NUMBER OF OCCUPANTS PER TABLE 1004.1.2 (ACTUAL NUMBER OF OCCUPANTS)
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- STAIR CAPACITY OCCS | - EWR | - EWP | - REQUIRED EXIT WIDTH FOR STAIRS BASED ON (OCCUPANT * 0.3)
- EXIT PATH OF TRAVEL (START - END)
- EXIT SIGN, WALL MOUNTED, ILLUMINATED FACE INDICATED BY SHADING, ARROW INDICATES DIRECTIONAL ARROW REQUIRED.
- EXIT SIGN, CEILING MOUNTED, ILLUMINATED FACE INDICATED BY SHADING, ARROW INDICATES DIRECTIONAL ARROW REQUIRED.

ABBREVIATIONS

- EWC ELECTRIC WATER COOLER
- FE FIRE EXTINGUISHER, WALL MOUNT
- FEC FIRE EXTINGUISHER CABINET

SMOKE SEPARATION LEGEND

- SMOKE SEPARATION WALL
- DUCTWORK PENETRATIONS REQUIRED SMOKE DAMPER

FIRE SEPARATION LEGEND

- 1 HOUR RATED FIRE PARTITION
- 1 HOUR RATED FIRE BARRIER
- 2 HOUR RATED FIRE BARRIER
- 2 HOUR RATED FIRE WALL

*ALL DOORS AND WINDOWS ARE TO MEET THE REQUIREMENTS FOR WALL RATING SPECIFICATIONS

CODE NARRATIVE:

ORIGINAL CONSTRUCTION: 1970
CONSTRUCTION TYPE: IIB (NONSPRINKLERED)
BASEMENT AREA: 2,800 SF GROSS
FIRST FLOOR AREA: 47,228 SF GROSS (EXISTING)
34,716 SF GROSS (REMAINING)
SECOND FLOOR AREA: 13,914 SF GROSS (DEMOLISHED)
THIRD FLOOR AREA: 13, 914SF GROSS (DEMOLISHED)

ADDITION CONSTRUCTION: 2025
CONSTRUCTION TYPE: IIB (SPRINKLERED)
BASEMENT AREA: 0 SF GROSS
FIRST FLOOR AREA: 34,757 SF GROSS
SECOND FLOOR AREA: 12,588 SF GROSS

CLASSIFICATION OF WORK:

- LEVEL 1 ALTERATION 21,440 SF
- LEVEL 2 ALTERATION 16,053 SF
- ADDITION 48,345 SF

TOTAL EXISTING FIRST FLOOR AREA: 34,716SF
WORK AREA: 16,190SF (49%)

OCCUPANT LOAD

ACCESSORY STORAGE AREA, MECH. ROOM	300 GROSS
ASSEMBLY W/ FIXED SEATS	SECT. 1004.6
ASSEMBLY W/OUT FIXED SEATS	
CONCENTRATED	7 NET
UNCONCENTRATED	15 NET
BUSINESS AREAS	150 GROSS
CLASSROOM AREAS	20 NET
VOCATIONAL ROOM AREAS	50 NET
LOCKER ROOMS	50 GROSS
EXERCISE ROOMS	50 GROSS
KITCHENS, COMMERCIAL	200 GROSS
READING ROOMS	50 GROSS
STAGES AND PLATFORMS	15 NET

BUILDING AREA MODIFICATIONS (NYS SECTION 506)

A_a	ALLOWABLE AREA PER FLOOR (SQUARE FEET)
A_t	TABULAR ALLOWABLE AREA FACTOR (NS,S1,S13R OR S13D VALUE) IN ACCORDANCE WITH TABLE 506.2 (SQUARE FEET)
I_f	AREA FACTOR INCREASE DUE TO FRONTAGE AS CALCULATED IN ACCORDANCE WITH SECTION 506.3 (PERCENT)
NS	TABULAR ALLOWABLE AREA FACTOR IN ACCORDANCE WITH TABLE 506.2 FOR NONSPRINKLERED BUILDING
S_a	ACTUAL NUMBER OF BUILDING STORIES ABOVE GRADE PLANE, NOT TO EXCEED THREE
W	CALCULATED WIDTH OF PUBLIC WAY OR OPEN SPACE (FEET) IN ACCORDANCE WITH SECTION 506.3.2
L_n	LENGTH OF A PORTION OF THE EXTERIOR PERIMETER WALL
W_n	WIDTH (≥ 20 FEET) OF A PUBLIC WAY OR OPEN SPACE ASSOCIATED WITH THAT PORTION OF THE EXTERIOR PERIMETER WALL
F	BUILDING PERIMETER THAT FRONTS ON A PUBLIC WAY OR OPEN SPACE HAVING A WIDTH OF 20 FEET OR MORE
P	PERIMETER OF ENTIRE BUILDING (FEET)

SINGLE OCCUPANCY, MULTI-STORY

$I_f = [F/P - 0.25]W/30$	$A_a = [A_t + (NS \times I_f)] \times S_a$
$I_f = [1031/1181 - 0.25]\ 30/30$	$A_a = [43,500 + (14,500 \times 0.62)] \times 2$
$I_f = [0.62]\ 1.00$	$A_a = [43,500 + (8,990)] \times 2$
$I_f = 62\%$	$A_a = 52,490$ sq ft x 2

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Project Title

BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

REGISTERED ARCHITECT — JOHN R. SCHNEIDER — No. 025852-1 — STATE OF NEW YORK
EXPIRES: 1/31/2026

V.	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Issued for Bid:	03/12/2026

Sheet Title

BASEMENT LIFE SAFETY PLANS

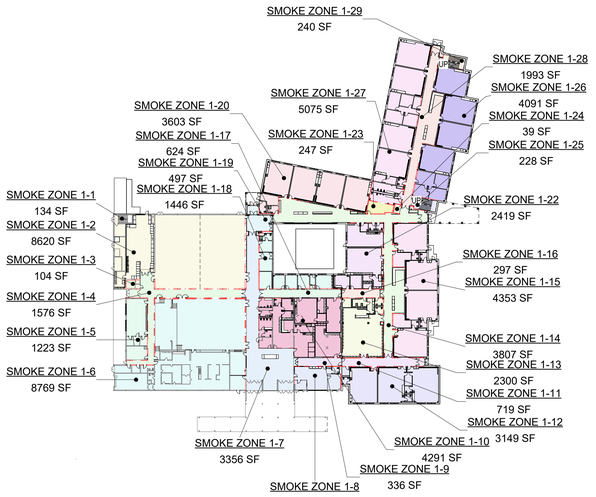
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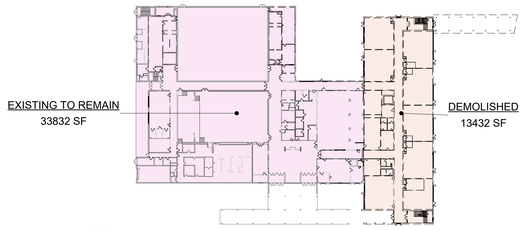
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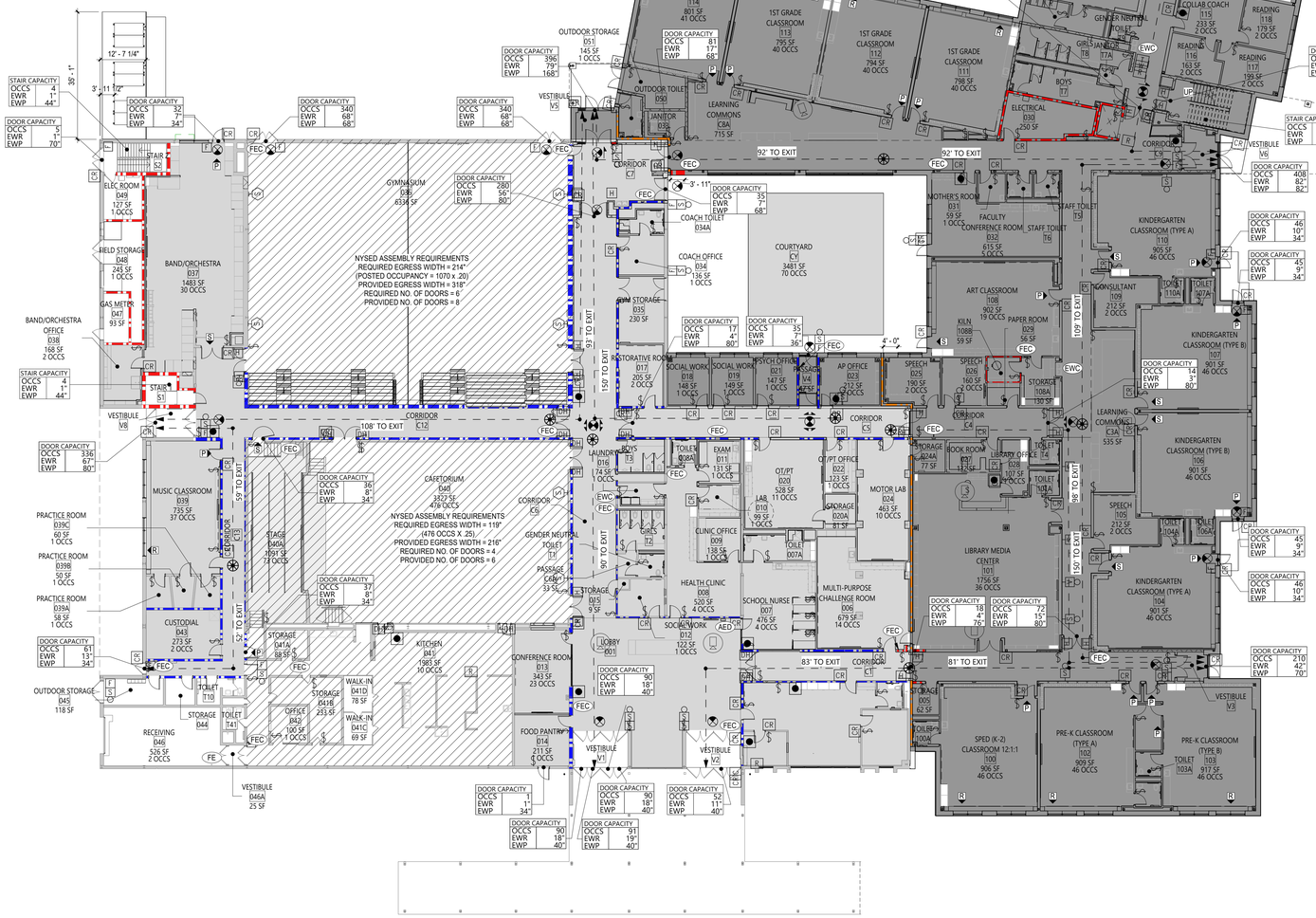
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4 SMOKE ZONES - FIRST FLOOR
LS111 1" = 60'-0"



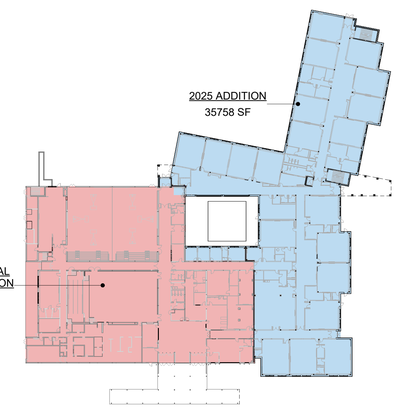
5 EXISTING FLOOR AREA - FIRST FLOOR
LS111 1" = 60'-0"



1 FIRST FLOOR LIFE SAFETY PLAN
LS111 1/16" = 1'-0"



3 BUILDING AREA - FIRST FLOOR
LS111 1" = 60'-0"



2 BUILDING VINTAGE - FIRST FLOOR
LS111 1" = 60'-0"

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

COUNTY: BROOME	CLIMATE ZONE: 6A	
VERTICAL FENESTRATION (U-FACTOR), Table C402.4	REQUIRED	PROVIDED
FIXED FENESTRATION	U-0.36	U-0.36
OPERABLE FENESTRATION	U-0.43	U-0.43
ENTRANCE DOORS	U-0.77	U-0.77
VERTICAL FENESTRATION SHGC, Table C402.4		
PF < 0.2	0.40	0.40
0.2 ≤ PF ≥ 0.5	0.48	0.48
PF > 0.5	0.64	0.64
SKYLIGHTS, Table C402.4		
U-FACTOR	0.50	0.50
PF ≥ 0.5	0.40	0.40
ROOF ASSEMBLIES (R-VALUES), Table C402.1.3		
INSULATION ENTIRELY ABOVE ROOF DECK	R-30ci	R-30ci
METAL BUILDINGS	R-25 + R-11 LS	N/A
ATTIC AND OTHER	R-49	N/A
WALLS ABOVE GRADE (R-VALUES), Table C402.1.3		
MASS	R-13.3ci	R-14ci
METAL BUILDINGS	R-13 + R-13ci	N/A
METAL FRAMED	R-13 + R-7.5ci	R-19 + R-14ci
WOOD FRAMED AND OTHER	R-13 + R-7.5ci	N/A
WALLS BELOW GRADE (R-VALUES), Table C402.1.3		
BELOW GRADE WALL	R-7.5ci	R-14ci
FLOORS (R-VALUES), Table C402.1.3		
MASS	R-12.5ci	R-12.5ci
JOIST / FRAMING	R-30	R-30
SLABS ON GRADE FLOORS (R-VALUES), Table C402.1.3		
UNHEATED SLABS	R-10 FOR 24" BELOW	R-10 FOR 24" BELOW
HEATED SLABS	R-15 FOR 36" BELOW + R-5 FULL SLAB	N/A
OPAQUE DOORS		
NONSWINGING (R-VALUE), Table C402.1.3	R-4.75	R-4.75
SWINGING (U-VALUE), Table C402.1.4	U-0.37	U-0.37

2020 PLUMBING CODE OF NEW YORK STATE (TABLE 403.1)

CLASSIFICATION: EDUCATIONAL

OCCUPANCY: 572	MALE	FEMALE	TOTAL
STUDENTS:	260	260	519
FACULTY:	27	27	53

	MALE FIXTURES			FEMALE FIXTURES	
	WC (1:50)	URINAL *	LAV (1:50)	WC (1:50)	LAV (1:50)
STUDENT REQUIRED	3	3	6	6	6
STUDENT PROVIDED	13	6	17	19	18
FACULTY REQUIRED	1	0	1	1	1
FACULTY PROVIDED	3	0	3	4	4

* URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

DRINKING FOUNTAINS (1:100) REQUIRED: 6 PROVIDED: 9

LIFE SAFETY PLAN LEGEND

- (P) PRIMARY EXIT
- (S) SECONDARY EXIT
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- ACCESSIBLE EXIT
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ABBREVIATIONS

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- FEC FIRE EXTINGUISHER CABINET

SMOKE SEPARATION LEGEND

- SMOKE SEPARATION WALL
- DUCTWORK PENETRATIONS REQUIRED SMOKE DAMPER

FIRE SEPARATION LEGEND

- 1 HOUR RATED FIRE PARTITION
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SINGLE OCCUPANCY, MULTI-STORY

I_f = [F/P - 0.25]W/30	A_a = [A_t+(NS x I_f)] x S_a
I_f = [1031/1181 - 0.25] 30/30	A_a = [43,500+(14,500 x 0.62)] x 2
I_f = [0.62] 1.00	A_a = [43,500+(8,990)] x 2
I_f = 62%	A_a = 52,490 sq ft x 2

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THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

REGISTERED ARCHITECT CHRISTOPHER A. SCHEIN 026885-1 STATE OF NEW YORK
EXPIRES: 1/31/2026

#	DATE	DESCRIPTION

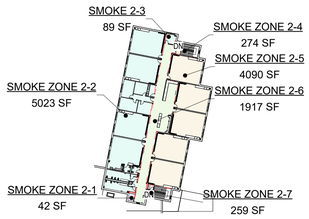
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Sheet Title
FIRST FLOOR LIFE SAFETY PLANS

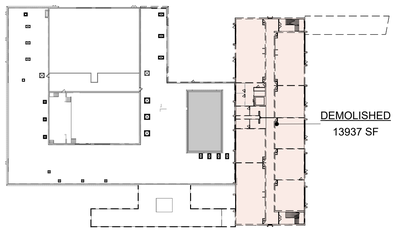
Sheet No.
TR LS111

CONSTRUCTION DOCUMENTS

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4 SMOKE ZONES - SECOND FLOOR
LS121 1" = 60'-0"



5 EXISTING FLOOR AREA - SECOND FLOOR
LS121 1" = 60'-0"



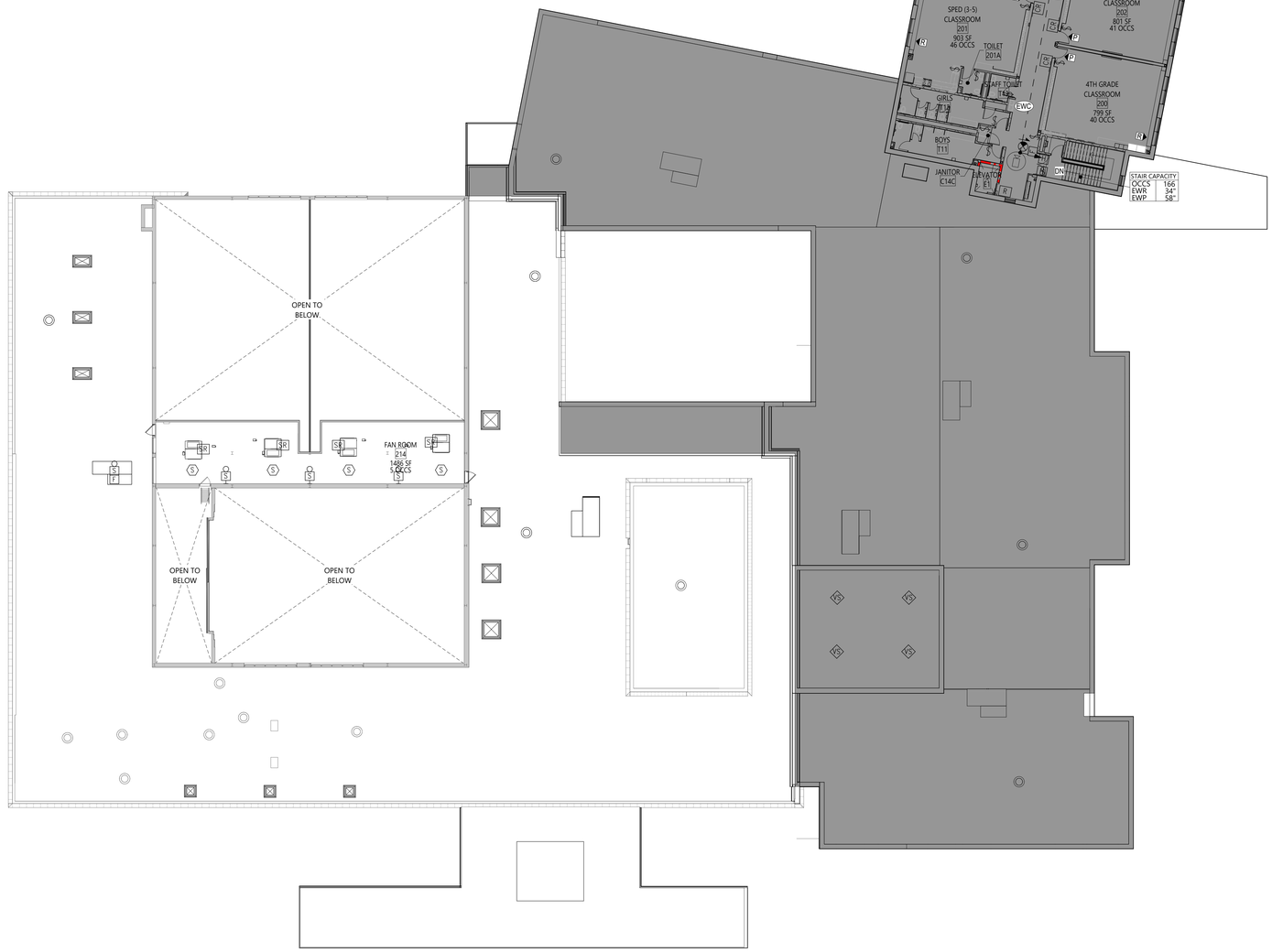
6 EXISTING FLOOR AREA - THIRD FLOOR
LS121 1" = 60'-0"



3 BUILDING AREA - SECOND FLOOR
LS121 1" = 60'-0"



2 BUILDING VINTAGE - SECOND FLOOR
LS121 1" = 60'-0"



1 SECOND FLOOR LIFE SAFETY PLAN
LS121 1/16" = 1'-0"

N

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- 2 HOUR RATED FIRE BARRIER
- 2 HOUR RATED FIRE WALL

*ALL DOORS AND WINDOWS ARE TO MEET THE REQUIREMENTS FOR WALL RATING SPECIFICATIONS

CODE NARRATIVE:

ORIGINAL CONSTRUCTION: 1970
CONSTRUCTION TYPE: IIB (NONSPRINKLERED)
BASEMENT AREA: 2,800 SF GROSS
FIRST FLOOR AREA: 47,228 SF GROSS (EXISTING)
34,716 SF GROSS (REMAINING)
SECOND FLOOR AREA: 13,914 SF GROSS (DEMOLISHED)
THIRD FLOOR AREA: 13, 914SF GROSS (DEMOLISHED)

ADDITION CONSTRUCTION: 2025
CONSTRUCTION TYPE: IIB (SPRINKLERED)
BASEMENT AREA: 0 SF GROSS
FIRST FLOOR AREA: 34,757 SF GROSS
SECOND FLOOR AREA: 12,588 SF GROSS

CLASSIFICATION OF WORK:

- LEVEL 1 ALTERATION 21,440 SF
- LEVEL 2 ALTERATION 16,053 SF
- ADDITION 48,345 SF

TOTAL EXISTING FIRST FLOOR AREA: 34,716SF
WORK AREA: 16,190SF (49%)

OCCUPANT LOAD

ACCESSORY STORAGE AREA, MECH. ROOM	300 GROSS
ASSEMBLY W/ FIXED SEATS	SECT. 1004.6
ASSEMBLY W/OUT FIXED SEATS	
CONCENTRATED	7 NET
UNCONCENTRATED	15 NET
BUSINESS AREAS	150 GROSS
CLASSROOM AREAS	20 NET
VOCATIONAL ROOM AREAS	50 NET
LOCKER ROOMS	50 GROSS
EXERCISE ROOMS	50 GROSS
KITCHENS, COMMERCIAL	200 GROSS
READING ROOMS	50 GROSS
STAGES AND PLATFORMS	15 NET

BUILDING AREA MODIFICATIONS (NYS SECTION 506)

A_a	ALLOWABLE AREA PER FLOOR (SQUARE FEET)
A_t	TABULAR ALLOWABLE AREA FACTOR (NS,S1,S13R OR S13D VALUE) IN ACCORDANCE WITH TABLE 506.2 (SQUARE FEET)
I_f	AREA FACTOR INCREASE DUE TO FRONTAGE AS CALCULATED IN ACCORDANCE WITH SECTION 506.3 (PERCENT)
NS	TABULAR ALLOWABLE AREA FACTOR IN ACCORDANCE WITH TABLE 506.2 FOR NONSPRINKLERED BUILDING
S_a	ACTUAL NUMBER OF BUILDING STORIES ABOVE GRADE PLANE, NOT TO EXCEED THREE
W	CALCULATED WIDTH OF PUBLIC WAY OR OPEN SPACE (FEET) IN ACCORDANCE WITH SECTION 506.3.2
L_n	LENGTH OF A PORTION OF THE EXTERIOR PERIMETER WALL
W_n	WIDTH (≥ 20 FEET) OF A PUBLIC WAY OR OPEN SPACE ASSOCIATED WITH THAT PORTION OF THE EXTERIOR PERIMETER WALL
F	BUILDING PERIMETER THAT FRONTS ON A PUBLIC WAY OR OPEN SPACE HAVING A WIDTH OF 20 FEET OR MORE
P	PERIMETER OF ENTIRE BUILDING (FEET)

SINGLE OCCUPANCY, MULTI-STORY

I_f = [F/P - 0.25]W/30	A_a = [A_t+(NS x I_f)] x S_a
I_f = [1031/1181 - 0.25] 30/30	A_a = [43,500+(14,500 x 0.62)] x 2
I_f = [0.62] 1.00	A_a = [43,500+(8,990)] x 2
I_f = 62%	A_a = 52,490 sq ft x 2

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Project Title

BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

REGISTERED ARCHITECT — JAMES A. SCHNEIDER — No. 025603 — STATE OF NEW YORK
EXPIRES: 1/31/2026

X:	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	03-02-00-01-0-010-014
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Issued for Bid:	03/12/2026

Sheet Title

SECOND FLOOR LIFE SAFETY PLANS

Sheet No.

TR
LS121

CONSTRUCTION DOCUMENTS

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GENERAL ABATEMENT NOTES:

1. A LIMITED HAZARDOUS MATERIALS SURVEY REPORT (ATL REPORT NO. ET5402CE-01-03-26, DATED MARCH 6, 2026) HAS BEEN PREPARED FOR THE PROJECT. REFERENCE DOCUMENTS PROVIDED IN THE PROJECT MANUAL. A COPY OF THIS REPORT MUST BE MAINTAINED ON-SITE DURING THE PROJECT.
2. PERFORM ALL WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL RULES, REGULATIONS, AND GUIDELINES.
3. ADJOINING AREAS MAY REMAIN OCCUPIED IN PART (BY THE OWNER) DURING THE ABATEMENT PROCESS. WORK MUST BE COORDINATED APPROPRIATELY.
4. COORDINATE ALL ABATEMENT AND REMOVALS WITH SCHEDULED DEMOLITION, RENOVATIONS, AND NEW CONSTRUCTION. ABATEMENT WORK MUST BE COMPLETED TO ENSURE THAT REMAINING HAZARDOUS MATERIALS ARE IN A SATISFACTORY CONDITION AND WILL NOT BE IMPACTED OR DISTURBED DURING SUBSEQUENT WORK.
5. ALL ABATEMENT WORK MUST BE COMPLETED PURSUANT TO PROJECT PHASING SCHEDULE, AND ABATEMENT MUST BE COMPLETED IN A WORK AREA PRIOR TO WORK BY OTHER TRADES THAT MAY DISTURB ACM OR OTHER HAZARDOUS MATERIALS.
6. NOTIFY EMPLOYEES AND SUBCONTRACTOR(S) OF THE PRESENCE OF ACM AND/OR OTHER HAZARDOUS MATERIAL-CONTAINING ITEMS. PREVENT THE DISTURBANCE OF KNOWN OR SUSPECT HAZARDOUS MATERIALS-CONTAINING ITEMS TO REMAIN.
7. MAINTAIN AND SAFEGUARD EXISTING EXIT PATHWAYS AND FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH CHAPTER 13 OF THE EXISTING BUILDING CODE OF NEW YORK STATE AND CHAPTERS 4 AND 14 OF THE FIRE CODE OF NEW YORK STATE.
8. ALL MATERIAL MEASUREMENTS AND/OR QUANTITIES ARE APPROXIMATE. INFORMATION PROVIDED ON DRAWINGS IS FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO VERIFY IN THE FIELD.
9. COORDINATE WATER AND ELECTRICAL SERVICES WITH THE OWNER PRIOR TO INITIATION OF WORK. VERIFY SUITABILITY AND LOCATIONS OF ALL CONNECTIONS.
10. ALL MOVABLE OBJECTS WITHIN THE WORK AREAS WILL BE MOVED AND STORED BY THE OWNER UNLESS THE REMOVAL IMPACTS OR WILL DISTURB KNOWN OR SUSPECT ACM OR OTHER HAZARDOUS MATERIALS.
11. PERFORM WORK IN SUCH A MANNER AS TO MINIMIZE THE RISK OF EXPOSURE TO PERSONNEL, TO PREVENT EXPOSURE TO OCCUPANTS, AND TO MINIMIZE THE RISK OF RELEASE OF HAZARDOUS MATERIALS TO THE ENVIRONMENT.
12. PRESERVE AND PROTECT EXISTING BUILDING MATERIALS, FINISHES, FACILITY EQUIPMENT, FURNISHINGS, AND VEGETATION AND LANDSCAPING THAT ARE NOT REMOVED, ABATED, OR SCHEDULED FOR DEMOLITION. PERFORM WORK WITHOUT DAMAGE TO OR CONTAMINATION OF ADJACENT AREAS. WHERE SUCH AREAS ARE DAMAGED, RESTORATION MUST BE TO ORIGINAL CONDITION. WHERE SUCH AREAS ARE CONTAMINATED, PROVIDE FOR REQUISITE CONTAINMENT AND CLEANUP.
13. MAINTAIN THE WORK AREA(S) IN A CLEAN AND SAFE CONDITION, AND ENSURE THAT UNCERTIFIED PERSONNEL OR UNAUTHORIZED VISITORS DO NOT ENTER ACTIVE WORK AREAS.
14. LOCATIONS OF ANY SITE STORAGE OF MATERIAL, EQUIPMENT, AND WASTE RECEPTACLES MUST BE COORDINATED WITH AND APPROVED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
15. UPON COMPLETION OF ABATEMENT ACTIVITIES AND SATISFACTORY CLEARANCE/INSPECTION, COMPLETELY REMOVE ALL ADHESIVES, TAPE, AND RESIDUE RESULTING FROM THE INSTALLATION OF WORK AREA CONTAINMENT AND DECONTAMINATION SYSTEMS. IN THE EVENT THAT SURFACES ARE DAMAGED BY THESE MATERIALS, THE ABATEMENT CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR/CLEANING OF AFFECTED SURFACES TO ORIGINAL CONDITION OR TO THE SATISFACTION OF THE OWNER.
16. UPON COMPLETION OF ABATEMENT ACTIVITIES AND SATISFACTORY CLEARANCE/INSPECTION, COORDINATE FOR TEMPORARILY SECURING ANY OPENINGS BETWEEN THE INTERIOR BUILDING AND EXTERIOR ENVIRONMENT UNTIL PERMANENT ENCLOSURE/SEALING CAN BE PROVIDED.

GENERAL ASBESTOS ABATEMENT NOTES:

1. REFERENCE SECTION 028200 OF PROJECT SPECIFICATIONS FOR REQUIREMENTS PERTAINING TO ABATEMENT OF ACM.
2. PERFORM ASBESTOS ABATEMENT WORK IN ACCORDANCE WITH 12 NYCRR PART 56, AS AMENDED EFFECTIVE MARCH 21, 2007, AND INCLUDING INFORMATION PRESENTED IN GUIDANCE DOCUMENT 2.0 DATED JANUARY 30, 2009.
3. IDENTIFIED ACM IN AREAS OF SCHEDULED WORK WILL REQUIRE ABATEMENT PRIOR TO PERFORMANCE OF OTHER WORK. REFERENCE TABLE HZ-01A OF THIS SHEET FOR A SUMMARY OF IDENTIFIED ACM IN THE AREAS OF WORK. THE ABATEMENT PLAN SHEETS PROVIDE ADDITIONAL DESCRIPTION OF AREAS WHERE ABATEMENT OF THESE MATERIALS IS REQUIRED.
4. IDENTIFIED MATERIALS WITH TRACE ASBESTOS (I.E., LESS THAN 1% ASBESTOS BY WEIGHT) DO NOT REQUIRE ABATEMENT PER 12 NYCRR PART 56 REQUIREMENTS, BUT MUST BE MANAGED PURSUANT TO OSHA 29 CFR 1926.1101. PERFORM WORK ACTIVITIES AFFECTING MATERIALS WITH TRACE ASBESTOS IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF OSHA 29 CFR 1926.1101. REFERENCE TABLE HZ-01B OF THIS SHEET FOR A SUMMARY OF IDENTIFIED MATERIALS WITH TRACE ASBESTOS.
5. THE PROVISIONS OF ANY SITE-SPECIFIC VARIANCE PROPOSED TO BE OBTAINED BY THE CONTRACTOR MUST BE REVIEWED AND APPROVED BY OWNER OR OWNER'S DESIGNATED REPRESENTATIVE, PRIOR TO PETITION TO NYSDOL.
6. FOR WORK AREAS WITH ABATEMENT OF MULTIPLE ACM, PROVIDE FOR ABATEMENT OF ACM UTILIZING SEQUENTIAL ABATEMENT AS DESCRIBED IN 12 NYCRR PART 56-8.6.
7. THE ABATEMENT CONTRACTOR MUST REMOVE ANY BUILT-IN ITEMS AND/OR ADHERED/AFFIXED MATERIALS WHERE SUCH REMOVAL MAY IMPACT OR DISTURB KNOWN OR SUSPECT ACM.

GENERAL LEAD AWARENESS NOTES:

1. REFERENCE SECTION 028300 OF PROJECT SPECIFICATIONS FOR REQUIREMENTS PERTAINING TO WORK ACTIVITIES AFFECTING LEAD-CONTAINING MATERIALS.
2. TESTING OF SELECTED REPRESENTATIVE SURFACES FOR LEAD WAS PERFORMED FOR THIS PROJECT AND RESULTS ARE PROVIDED IN THE LIMITED HAZARDOUS MATERIALS SURVEY REPORT. REFERENCE THE LIMITED HAZARDOUS MATERIALS SURVEY REPORT FOR ADDITIONAL DETAILS PERTAINING TO TESTED LOCATIONS. FOR PAINTED/COATED SURFACES NOT TESTED, ASSUME THE MATERIAL CONTAINS LEAD.
3. WORK ACTIVITIES DISTURBING LEAD-CONTAINING MATERIALS (OR MATERIALS ASSUMED TO CONTAIN LEAD) ARE SUBJECT TO OSHA LEAD IN CONSTRUCTION STANDARD (29 CFR 1926.62) REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR TAKING APPROPRIATE PRECAUTIONS TO ENSURE THAT WORKERS ARE NOT EXPOSED TO LEAD IN EXCESS OF THE PERMISSIBLE EXPOSURE LIMIT.
4. PROVIDE FOR REPRESENTATIVE SAMPLING OF LEAD-CONTAINING WASTE, AND LABORATORY ANALYSIS FOR TCLP LEAD TO CLASSIFY WHETHER HAZARDOUS OR NON-HAZARDOUS RELATIVE TO LEAD. BASED ON RESULTS OF TCLP LEAD ANALYSIS, AND PENDING OTHER TYPES OF WASTE THAT MAY BE CO-MINGLED WITH THE LEAD, PROVIDE FOR APPROPRIATE TRANSPORT AND DISPOSAL IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.

GENERAL NOTES FOR PCB-CONTAINING CAULK:

1. REFERENCE SECTION 028400 OF PROJECT SPECIFICATIONS FOR REQUIREMENTS PERTAINING TO REMEDIATION OF PCB-CONTAINING CAULK/SEALANT MATERIALS.
2. REFERENCE TABLE HZ-02A OF THIS SHEET FOR A SUMMARY OF IDENTIFIED MATERIALS WITH PCB GREATER THAN OR EQUAL TO 50 PPM. THESE MATERIALS MUST BE HANDLED IN ACCORDANCE WITH EPA 40 CFR 761.123 AND DISPOSED OF AS HAZARDOUS WASTE.
3. REFERENCE TABLE HZ-02B OF THIS SHEET FOR A SUMMARY OF IDENTIFIED MATERIALS WITH PCB LESS THAN 50 PPM. THESE MATERIALS ARE NOT CLASSIFIED AS HAZARDOUS WASTE RELATIVE TO EXISTING DATA FOR PCB CONCENTRATIONS. DISPOSAL OF WASTE STREAMS WITH THESE MATERIALS SHALL BE VERIFIED FOR ACCEPTANCE BY THE SELECTED DISPOSAL FACILITY.

SEQUENCE OF ABATEMENT FOR ACM AND PCB:

1. REMOVE PCB-CONTAINING CAULK/SEALANT HAZARDOUS WASTE.
2. REMOVE COMINGLED ACM AND PCB-CONTAINING CAULK/SEALANT HAZARDOUS WASTE.
3. REMOVE REMAINING ACM.

LIST OF ABBREVIATIONS:

ACM	ASBESTOS-CONTAINING MATERIALS
CFR	CODE OF FEDERAL REGULATIONS
EPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NYCRR	NEW YORK CODES, RULES AND REGULATIONS
NYSDOL	NEW YORK STATE DEPARTMENT OF LABOR
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PCB	POLYCHLORINATED BIPHENYLS
PPM	PARTS PER MILLION
TCLP	TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TSI	THERMAL SYSTEMS INSULATION

TABLE HZ-01A: ASBESTOS ABATEMENT SCHEDULE

DRAWING NOTE ID	TYPE OF ACM	LOCATION	ESTIMATED QUANTITY	ABATEMENT CONDITIONS - RENOVATION SECTION	ABATEMENT CONDITIONS - DEMOLITION SECTION
01-A	WHITE PIPE TSI AND ASSOCIATED OFF-WHITE 12-INCH DIAMETER PIPE TSI JACKET	B001	25 LINEAR FEET	REMOVE AND DISPOSE OF ACM PURSUANT TO 12 NYCRR PART 56 REQUIREMENTS.	
02-A	WHITE DOOR INSULATION	131, 154/154A, 180, 185, 186, 210, 211, 313, 319	320 SQUARE FEET	REMOVE AND DISPOSE OF ACM PURSUANT TO 12 NYCRR PART 56 REQUIREMENTS.	REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
03-A	WHITE 2-FOOT DIAMETER BREECHING TSI ASSOCIATED WITH WATER HEATER MANIFOLD	B001	50 SQUARE FEET	REMOVE AND DISPOSE OF ACM PURSUANT TO 12 NYCRR PART 56 REQUIREMENTS.	
04-A	WHITE BREECHING CEMENT/END SEALANT	B001	15 SQUARE FEET	REMOVE AND DISPOSE OF ACM PURSUANT TO 12 NYCRR PART 56 REQUIREMENTS.	
05-A	PIPE TSI AND SPRAY-APPLIED FIREPROOFING AND ASSOCIATED DEBRIS	CRAWLSPACE/PIPE TUNNEL AREA	4,900 SQUARE FEET	REMOVE ASBESTOS-CONTAINING PIPE TSI AND ASSOCIATED INSULATION MATERIALS PRESENT ON EXISTING PIPING SYSTEMS AND ASSOCIATED DEBRIS WITHIN THE CRAWLSPACE/PIPE TUNNEL AREAS. WORK AREA WILL BE A CONFINED AREA WITH LIMITED ACCESSIBILITY. PROVIDE NECESSARY MEANS OF ACCESS TO COMPLETE ABATEMENT. CLEAN-UP OF DEBRIS PRESENT WITHIN THESE SPACES WILL REQUIRE A NYSDOL APPROVED SITE-SPECIFIC VARIANCE. INSTALL A CEMENTITIOUS ENCLOSURE OVER REMAINING SOIL FLOOR AREAS, PURSUANT TO SITE-SPECIFIC VARIANCE.	
06-A	PIPE TSI AND ASSOCIATED DEBRIS	110/109, 123/124, 134/135, 143/144/145, SECOND FLOOR BATHROOM CHASE, THIRD FLOOR BATHROOM CHASE	1,450 SQUARE FEET	REMOVE ASBESTOS-CONTAINING PIPE TSI AND ASSOCIATED INSULATION MATERIALS PRESENT ON EXISTING PIPING SYSTEMS AND ASSOCIATED DEBRIS WITHIN THE CHASEWAYS. WORK AREA WILL BE A CONFINED AREA WITH LIMITED ACCESSIBILITY. PROVIDE NECESSARY MEANS OF ACCESS TO COMPLETE ABATEMENT. CLEAN-UP OF DEBRIS PRESENT WITHIN THESE SPACES WILL REQUIRE A NYSDOL APPROVED SITE-SPECIFIC VARIANCE.	REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
07-A	BROWN SPRAY-APPLIED FIREPROOFING	105, 106, 107, 124A, 133, 133A, 143, 144, 145, 146, 146A, 146B, 147, 148, 154A, 155, 156, 162, 164, 165, 166, 169, 170, 171, 171A, 172, 172A, 173, 174, 175, 175A, 176, 178, 179, 180, 181, 181T, 182, 182T, 183, 183T, 184, 184T, 185, 185T, 186, C200, 201, 202, 203, 204, 205, 205A, 206, 207, 207A, 208, 210, 211, 213, 213A, 214, 214A, 214B, 215, 216, 216A, 313, 319	34,400 SQUARE FEET	REMOVE CEILING SYSTEMS UNDER ASBESTOS ABATEMENT CONTAINMENT AND DISPOSE OF AS ACM. PROVIDE ABATEMENT OF ACM AND ASSOCIATED DEBRIS ABOVE CEILING SYSTEMS. WALL SYSTEMS SCHEDULED TO BE REMOVED WITHIN THESE SPACES MUST ALSO BE REMOVED UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO DEBRIS WITHIN THE WALL SYSTEMS. REFERENCE ADDITIONAL CONDITIONS DESCRIBED IN SITE-SPECIFIC VARIANCE.	REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
07-A1	BROWN SPRAY-APPLIED FIREPROOFING (WITHIN WALL SYSTEMS)	107, 108, 109, 110, 111, 134, 135, 135A, 135B, 136, 136A, 136B, 138, 139, 154A, 156, 164, 165, 166, 169, 170, 171, 171A, 172, 172A, 173, 174, 175, 175A, 176, 178, 179, 180, 181, 181T, 182, 182T, 183, 183T, 184, 184T, 185, 185T, 186, C200, 201, 202, 203, 204, 205, 205A, 206, 207, 207A, 208, 210, 211, 213, 213A, 214, 214A, 214B, 215, 216, 216A, 301, 302, 303, 304, 305A, 305B, 306, 307, 307A, 307B, 308, 309, 310, B311T, B311TA, G311T, G311TA, 312, 313, 319	53,200 SQUARE FEET		REMOVE WALL SYSTEMS UNDER ASBESTOS ABATEMENT CONTAINMENT AND DISPOSE OF AS ACM. PROVIDE ABATEMENT OF ACM AND ASSOCIATED DEBRIS WITHIN WALL SYSTEMS. REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
07-A2	RESIDUAL BROWN SPRAY-APPLIED FIREPROOFING (UNDER NEWER GRAY SPRAY-APPLIED FIREPROOFING)	108, 109, 110, 111, 112, 117, 118A, 118B, 118C, 134, 135, 135A, 136, 136A, 136B, 138, 139, 141, 142, 145, 149, 151, 151A, 151B, 151C, 151D, 152, 152A, 153, 154, 157, 158, 159, 161, 166	8,300 SQUARE FEET	REMOVE NON-ACM GRAY FIREPROOFING DOWN TO SUBSTRATE FOR ABATEMENT OF RESIDUAL ACM BROWN FIREPROOFING THAT MAY BE PRESENT BELOW THE GRAY FIREPROOFING. REMOVE CEILING SYSTEMS UNDER ASBESTOS ABATEMENT CONTAINMENT AND DISPOSE OF AS ACM. PROVIDE ABATEMENT OF ACM AND ASSOCIATED DEBRIS ABOVE CEILING SYSTEMS. WALL SYSTEMS SCHEDULED TO BE REMOVED WITHIN THESE SPACES MUST ALSO BE REMOVED UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO DEBRIS WITHIN THE WALL SYSTEMS. REFERENCE ADDITIONAL CONDITIONS DESCRIBED IN SITE-SPECIFIC VARIANCE.	
07-A3	BROWN/GRAY SPRAY-APPLIED FIREPROOFING BEHIND POLY BARRIERS	301, 302, 303, 304, 305A, 305B, 306, 307, 307A, 307B, 308, 309, 310, B311T, B311TA, G311T, G311TA	2,650 SQUARE FEET		REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
07-A4	BROWN/GRAY SPRAY APPLIED FIREPROOFING WITHIN CHASE	167, 201, 202, 203, 204, 205, 205A, CHASE B/W 206/ELEVATOR, 208, 213, 213A, 216, 216A, 301, 302, 303, 304, 305A, 305B, 306, CHASE B/W 306/307A, 307, 308, 309, 310	670 SQUARE FEET		REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
08-A	PAINTED GREEN SPRAY-APPLIED FIREPROOFING	164, 165, 181, 182, 183, 184, 185, 201, 202, 203, 204, 205, 205A, 208, 213, 213A, 214A, 214B, 215, 216, 216A	5,120 SQUARE FEET		REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
09-A	GRAY 2-INCH DIAMETER MUDDED TSI PIPE FITTING	106, 107, 154A, 164, 165, 170, 174, 178, 179, 181, 182, 183, 184, 185, C200, 201, 202, 203, 204, 205, 205A, 208, 213, 213A, 216, 216A	154 LINEAR FEET		REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
10-A	12- BY 12-INCH BEIGE STREAKED WITH GRAY AND BROWN FLOOR TILE	164	895 SQUARE FEET		REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
11-A	BLACK DOOR/WINDOW FRAME PERIMETER CAULK	116, 129, 154, 154A, 155, 158, 159, 161, 164, 165, 179, 180, 181, 182, 183, 184, 185, 186, C200, 210, 211, 312, 313, 319	100 SQUARE FEET	REMOVE AND DISPOSE OF ACM PURSUANT TO 12 NYCRR PART 56 REQUIREMENTS. MATERIAL ALSO CONTAINS PCB>50 PPM AND WILL REQUIRE DISPOSAL AS ASBESTOS-CONTAINING HAZARDOUS WASTE.	REMOVE AND DISPOSE OF ACM PURSUANT TO 12 NYCRR PART 56 REQUIREMENTS. MATERIAL ALSO CONTAINS PCB>50 PPM AND WILL REQUIRE DISPOSAL AS ASBESTOS-CONTAINING HAZARDOUS WASTE.
12-A	BEIGE STONE PATTERN SHEET FLOORING AND ASSOCIATED YELLOW MASTIC	174, 214A, 214B, 215, 307B	1,075 SQUARE FEET		REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
13-A	LIGHT GRAY CEMENTITIOUS SOFFIT PANELS AND ASSOCIATED DARK GRAY CAULK	FIRST FLOOR SOFFIT AREAS, GYMNASIUM AND CAFETORIUM ROOF SOFFIT AREAS, THIRD FLOOR ROOF SOFFIT AREAS, LIBRARY ROOF SOFFIT AREAS	6,000 SQUARE FEET	REMOVE AND DISPOSE OF ACM PURSUANT TO 12 NYCRR PART 56 REQUIREMENTS. MATERIAL ALSO CONTAINS PCB>50 PPM AND WILL REQUIRE DISPOSAL AS ASBESTOS-CONTAINING HAZARDOUS WASTE.	REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
14-A	BLACK ROOF FLASHING TAR ASSOCIATED WITH SKYLIGHTS	ROOF 1	175 SQUARE FEET	REMOVE AND DISPOSE OF ACM PURSUANT TO 12 NYCRR PART 56 REQUIREMENTS.	REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
15-A	WHITE DOOR LITE BUTYL	178, 180, 186, 210, 211, 313, 319	7 SQUARE FEET		REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
16-A	OFF-WHITE DOOR LITE BUTYL	180, 186, 210	12 SQUARE FEET		REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
17-A	YELLOW PANEL ADHESIVE (ASSUMED)	168 - ELEVATOR CAR WALLS	160 SQUARE FEET		REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
18-A	ELEVATOR CONTROL PANEL AND ASSOCIATED ELECTRICAL COMPONENTS (ASSUMED)	ELEVATOR AND ELEVATOR MECHANICAL ROOM	25 SQUARE FEET		REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.
19-A	BROWN ADHESIVE ASSOCIATED WITH WHITE TEXTURED ACOUSTICAL PANEL WALL BOARD	130, 132	1,300 SQUARE FEET	REMOVE AND DISPOSE OF ACM PURSUANT TO 12 NYCRR PART 56 REQUIREMENTS.	
20-A	BOILER COMPONENTS (ASSUMED)	B001	400 SQUARE FEET	REMOVE AND DISPOSE OF ACM PURSUANT TO 12 NYCRR PART 56 REQUIREMENTS.	
21-A	BLACK TAR ABOVE EXTERIOR CORRIDOR DOOR	154	3 SQUARE FEET	REMOVE AND DISPOSE OF ACM PURSUANT TO 12 NYCRR PART 56 REQUIREMENTS.	
22-A	PIPE TSI UNDER CONCRETE SLAB AREAS (ASSUMED)	FIRST FLOOR SLAB OF 3-STORY SECTION FOR DEMOLITION	BURIED ACM NOT QUANIFIED		REMOVE ACM FROM BUILDING SECTION SCHEDULED FOR DEMOLITION, IN ACCORDANCE WITH SITE-SPECIFIC VARIANCE. ABATEMENT WORK WILL REQUIRE ACCESS AND REMOVAL OF ACCESSIBLE ACM, FOLLOWED BY DEMOLITION OF STRUCTURE UNDER ASBESTOS ABATEMENT CONDITIONS DUE TO POTENTIAL RESIDUAL ACM DEBRIS.

TABLE HZ-01B: IDENTIFIED MATERIALS WITH TRACE ASBESTOS

DESCRIPTION OF MATERIAL	LOCATION
BLACK MASTIC ASSOCIATED WITH BEIGE 12- BY 12-INCH STREAKED WITH GRAY AND BROWN FLOOR TILE	164
WHITE CAULK ASSOCIATED WITH BOTTOM STEP	180, 186

TABLE HZ-02A: IDENTIFIED CAULK MATERIALS WITH TOTAL PCB DETECTED AT GREATER THAN OR EQUAL TO 50 PPM

DRAWING NOTE ID	DESCRIPTION OF PCB-CONTAINING CAULK	LOCATION	ANALYTICAL RESULT FOR PREVIOUS SAMPLE (TOTAL PCB - PPM)
01-P	WHITE CAULK	154, 154A, 179, 180, 186, C200, 210, 211, 312, 313, 319	118,000
02-P	BLACK DOOR WINDOW FRAME PERIMETER CAULK	116, 129, 154, 154A, 155, 158, 159, 161, 164, 165, 179, 180, 181, 182, 183, 184, 185, 186, C200, 210, 211, 312, 313, 319	24,000
03-P	GRAY WINDOW FRAME CAULK (INTERIOR)	164, 165, 177/178, 181, 182, 183, 184, 185, 201, 202, 203, 204, 205, 205A, 207, 208, 213, 213A, 214, 214A, 214B, 216, 216A, 301, 302, 303, 304, 305A, 305B, 306, 307, 307B, 308, 309, 310, B311T, G311T, 312	20,500
04-P	DARK GRAY WIDOW FRAME CAULK (EXTERIOR)	164, 165, 177/178, 181, 182, 183, 184, 185, 201, 202, 203, 204, 205, 205A, 207, 208, 213, 213A, 214, 214A, 214B, 216, 216A, 301, 302, 303, 304, 305A, 305B, 306, 307, 307B, 308, 309, 310, B311T, G311T, 312	727
05-P	DARK GRAY CAULK	FIRST FLOOR SOFFIT AREAS, GYMNASIUM AND CAFETORIUM ROOF SOFFIT AREAS, THIRD FLOOR ROOF SOFFIT AREAS, LIBRARY ROOF SOFFIT AREAS	32,800
06-P	BEIGE EXPANSION JOINT CAULK	SOUTH EXTERIOR, AND NORTH EXTERIOR WHERE FIRST STORY MEETS THIRD STORY BUILDING	45,000
07-P	GRAY REPAIR CAULK	ROOF 7	164

TABLE HZ-02B: IDENTIFIED CAULK MATERIALS WITH TOTAL PCB DETECTED AT LESS THAN 50 PPM*

DESCRIPTION OF PCB-CONTAINING CAULK	LOCATION	ANALYTICAL RESULT FOR PREVIOUS SAMPLE (TOTAL PCB - PPM)
BLACK WINDOW FRAME CAULK	177/178, 179, C200, 207, 312, 214	23.9
WHITE DOOR FRAME CAULK	176	13.9
WHITE FIXTURE CAULK	109, 151, 151D, 176, 181T, 182T, 183T, 184T, 185T, 207, 207A, 214, 214A, B311T, B311TA, G311T, G311TA	1.6
BROWN DOOR FRAME CAULK	176	7.1
OFF-WHITE FIXTURE CAULK	175	11.6
WHITE CAULK	164, 165, 166, 170, 171, 201, 202, 203, 204, 205, 205A, 208, 213, 213A, 216, 216A, 301, 302, 303, 304, 305A, 305B, 306, 307, 308, 309, 310	4.5
WHITE CAULK	169	3.6
WHITE FIRE STOP SEALANT	179, C200	4.3
RED FIRE STOP SEALANT	154A, 166, 186	2.6
BLACK CAULK	100, 165	3.7
WHITE CAULK	180, 186	7.1
CLEAR CAULK	205A, G311TA	2.8
WHITE CAULK	108	12.7
WHITE FLASHING CAULK	ROOF 2, ROOF 3, ROOF 4, ROOF 5, ROOF 6, ROOF 7	12.7
DARK GRAY CAULK	ROOF 1, ROOF 2, ROOF 3, ROOF 4, ROOF 5, ROOF 6, ROOF 7, ROOF 8, ROOF 10	2.4
GRAY CAULK	ROOF 10	5.9
GRAY CAULK	ROOF 4	0.90

*MATERIAL IS NOT CLASSIFIED AS HAZARDOUS WASTE BASED ON PREVIOUS SAMPLE ANALYTICAL DATA FOR TOTAL PCB LESS THAN 50 PPM, BUT WASTE STREAM WITH THIS MATERIAL WILL REQUIRE DISPOSAL AT A FACILITY PERMITTED TO ACCEPT PCB-CONTAIING WASTE. SELECTED DISPOSAL FACILITY MAY REQUIRE ADDITIONAL SAMPLING AND ANALYSIS FOR WASTE PROFILE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND PROVIDING ANY ADDITIONAL WASTE PROFILE SAMPLING AND ANALYSIS THAT MAY BE REQUIRED BY SELECTED DISPOSAL FACILITY.

HANDLING AND MANAGEMENT OF MATERIALS WITH TRACE ASBESTOS:

PERFORM WORK ACTIVITIES AFFECTING MATERIALS WITH TRACE ASBESTOS IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF OSHA 29 CFR 1926.1101. REFERENCE TABLE HM-01B OF DRAWING NO. HM001 FOR A SUMMARY OF IDENTIFIED MATERIALS WITH TRACE ASBESTOS.

MANAGEMENT AND DISPOSAL OF CAULK WITH PCB LESS THAN 50 PPM:

MANAGE AND DISPOSE OF MATERIALS IDENTIFIED AS HAVING LESS THAN 50 PPM PCB, PURSUANT TO APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS. MATERIAL IS NOT CLASSIFIED AS HAZARDOUS WASTE RELATIVE TO EXISTING DATA FOR PCB CONCENTRATIONS; HOWEVER, WASTE STREAM WITH THIS MATERIAL WILL REQUIRE DISPOSAL AT A FACILITY PERMITTED TO ACCEPT PCB-CONTAINING WASTE. REFERENCE TABLE HM-02B OF DRAWING NO. HM001 FOR A SUMMARY OF IDENTIFIED CAULK MATERIALS WITH PCB LESS THAN 50 PPM.

LEAD PAINT HANDLING AND DISPOSAL:

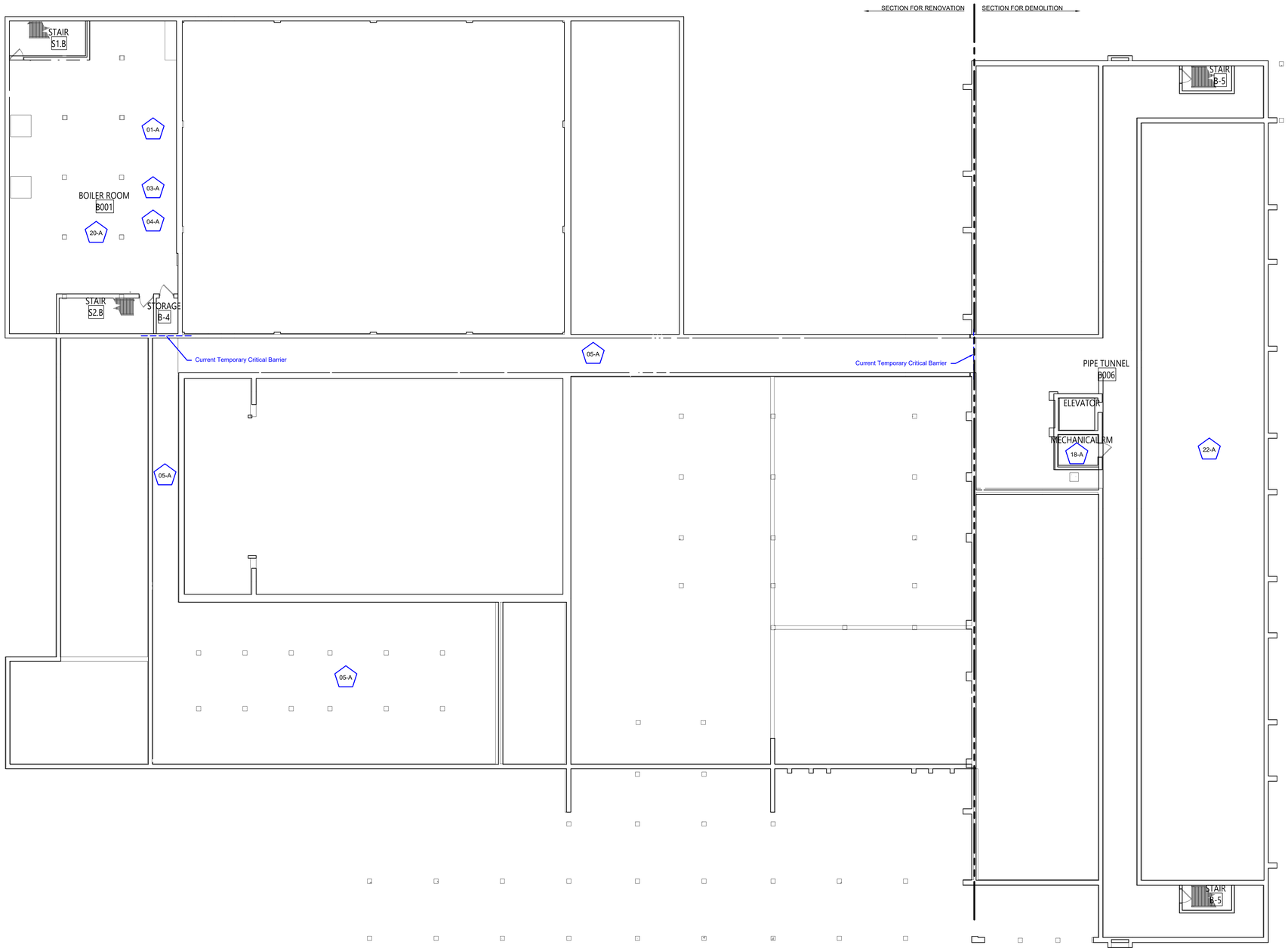
PERFORM WORK ACTIVITIES AFFECTING LEAD-CONTAINING PAINT IN ACCORDANCE WITH OSHA 29 CFR 1926.62. DISPOSE OF WASTE MATERIALS THAT ARE INCLUSIVE OF LEAD-CONTAINING PAINT IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS. REFERENCE THE LIMITED HAZARDOUS MATERIALS SURVEY REPORT FOR A SUMMARY OF IDENTIFIED LEAD-CONTAINING PAINT.

ASBESTOS ABATEMENT NOTES:

1. REFERENCE TABLE HZ-01A ON SHEET HZ101 FOR ADDITIONAL NOTES AND REQUIREMENTS PERTAINING TO ABATEMENT OF ACM.

ABATEMENT KEY NOTES

- 01-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING WHITE PIPE TSI AND ASSOCIATED OFF-WHITE 12-INCH DIAMETER PIPE TSI JACKET.
- 03-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING WHITE 2-FOOT DIAMETER BREECHING TSI ASSOCIATED WITH WATER HEATER MANIFOLD.
- 04-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING WHITE BREECHING CEMENT.
- 05-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING PIPE TSI AND PROVIDE FOR CLEANUP OF ASSOCIATED DEBRIS PURSUANT TO THE CONDITIONS OF AN APPROVED SITE-SPECIFIC VARIANCE.
- 18-A — REMOVE ELEVATOR CONTROL PANEL WITH ASSOCIATED ELECTRICAL COMPONENTS ASSUMED TO CONTAIN ASBESTOS AND DISPOSE OF AS ACM.
- 20-A — REMOVE BOILER WITH INTERNAL COMPONENTS ASSUMED TO CONTAIN ASBESTOS AND DISPOSE OF AS ACM.
- 22-A — REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING PIPE TSI UNDER CONCRETE SLAB.



1 / HZ102 BASEMENT ABATEMENT PLAN
Scale: 3/32" = 1'-0"

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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

Project Title

STATE OF NEW YORK · JOSEPH JOHN DASHNAW · 099577 · LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	J. FESSETTE
Checked By:	C. DASHNAW
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Construction Documents:	03/12/2026

Sheet Title: ABATEMENT PLAN - BASEMENT

Sheet No.: HZ102

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SEQUENCE OF ABATEMENT FOR ACM AND PCB:

1. REMOVE PCB-CONTAINING CAULK/SEALANT HAZARDOUS WASTE.
2. REMOVE COMINGLED ACM AND PCB-CONTAINING CAULK/SEALANT HAZARDOUS WASTE.
3. REMOVE REMAINING ACM.

HANDLING AND MANAGEMENT OF MATERIALS WITH TRACE ASBESTOS:

PERFORM WORK ACTIVITIES AFFECTING MATERIALS WITH TRACE ASBESTOS IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF OSHA 29 CFR 1926.1101. REFERENCE TABLE HZ-01B OF DRAWING NO. HZ101 FOR A SUMMARY OF IDENTIFIED MATERIALS WITH TRACE ASBESTOS.

MANAGEMENT AND DISPOSAL OF CAULK WITH PCB LESS THAN 50 PPM:

MANAGE AND DISPOSE OF MATERIALS IDENTIFIED AS HAVING LESS THAN 50 PPM PCB, PURSUANT TO APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS. MATERIAL IS NOT CLASSIFIED AS HAZARDOUS WASTE RELATIVE TO EXISTING DATA FOR PCB CONCENTRATIONS; HOWEVER, WASTE STREAM WITH THIS MATERIAL WILL REQUIRE DISPOSAL AT A FACILITY PERMITTED TO ACCEPT PCB-CONTAINING WASTE. REFERENCE TABLE HZ-02B OF DRAWING NO. HZ101 FOR A SUMMARY OF IDENTIFIED CAULK MATERIALS WITH PCB LESS THAN 50 PPM.

LEAD PAINT HANDLING AND DISPOSAL:

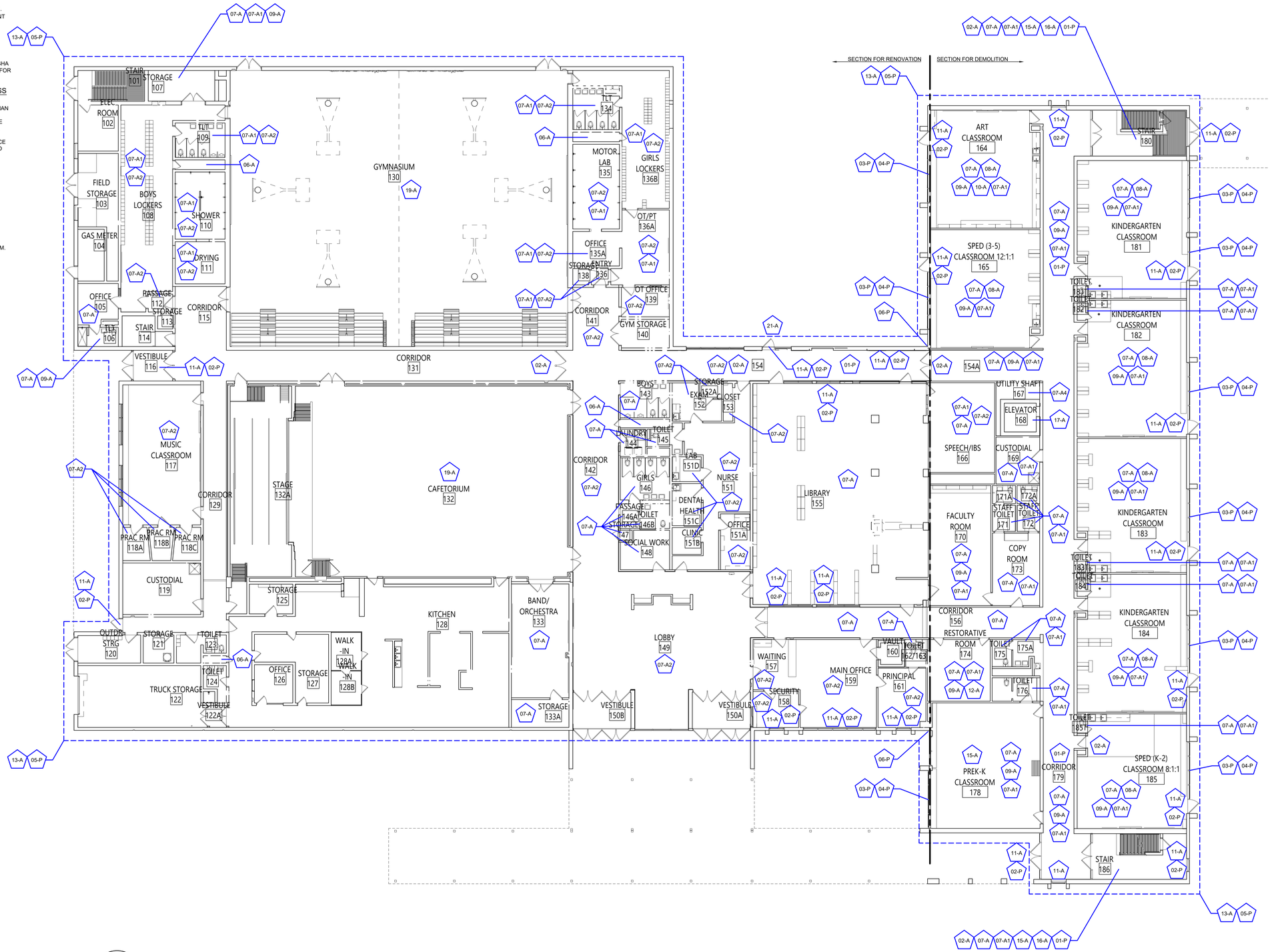
PERFORM WORK ACTIVITIES AFFECTING LEAD-CONTAINING PAINT IN ACCORDANCE WITH OSHA 29 CFR 1926.62. DISPOSE OF WASTE MATERIALS THAT ARE INCLUSIVE OF LEAD-CONTAINING PAINT IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS. REFERENCE THE LIMITED HAZARDOUS MATERIALS SURVEY REPORT FOR A SUMMARY OF IDENTIFIED LEAD-CONTAINING PAINT.

ASBESTOS ABATEMENT NOTES:

1. REFERENCE TABLE HZ-01A ON SHEET HZ101 FOR ADDITIONAL NOTES AND REQUIREMENTS PERTAINING TO ABATEMENT OF ACM.

ABATEMENT KEY NOTES

- 02-A — REMOVE AND DISPOSE OF FIRE DOORS WITH ASBESTOS-CONTAINING INSULATION.
- 06-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING PIPE TSI AND PROVIDE FOR CLEANUP OF ASSOCIATED DEBRIS PURSUANT TO THE CONDITIONS OF AN APPROVED SITE-SPECIFIC VARIANCE.
- 07-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BROWN SPRAY-APPLIED FIREPROOFING.
- 07-A1 — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BROWN SPRAY-APPLIED FIREPROOFING.
- 07-A2 — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BROWN SPRAY-APPLIED FIREPROOFING.
- 07-A4 — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BROWN/GRAY SPRAY-APPLIED FIREPROOFING WITHIN CHASE.
- 08-A — REMOVE PAINTED GREEN SPRAY-APPLIED FIREPROOFING COMINGLED WITH ASBESTOS-CONTAINING FIREPROOFING AND DISPOSE OF AS ACM.
- 09-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING GRAY 2-INCH DIAMETER MUDDED TSI PIPE FITTING.
- 10-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING 12-BY 12-INCH BEIGE STREAKED FLOOR TILE AND ASSOCIATED MASTIC.
- 11-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BLACK DOOR/WINDOW FRAME PERIMETER CAULK. CAULK ALSO CONTAINS PCB≥50 PPM. REFERENCE KEY NOTE 02-P.
- 12-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BEIGE STONE PATTERN SHEET FLOORING AND ASSOCIATED YELLOW MASTIC.
- 13-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING LIGHT GRAY CEMENTITIOUS SOFFIT PANELS AND ASSOCIATED DARK GRAY CAULK. CAULK ALSO CONTAINS PCB≥50 PPM. REFERENCE KEY NOTE 05-P.
- 15-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING WHITE DOOR LITE BUTYL.
- 16-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING OFF-WHITE DOOR LITE BUTYL.
- 17-A — REMOVE AND DISPOSE OF YELLOW ASSUMED PANEL ADHESIVE.
- 18-A — REMOVE AND DISPOSE OF ASSUMED ELEVATOR CONTROL PANEL AND ASSOCIATED ELECTRICAL COMPONENTS.
- 19-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BROWN ADHESIVE ASSOCIATED WITH.
- 21-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BLACK TAR ABOVE EXTERIOR CORRIDOR DOOR.
- 01-P — REMOVE WHITE CAULK CONTAINING PCB AT CONCENTRATIONS GREATER THAN OR EQUAL TO 50 PPM AND DISPOSE OF AS HAZARDOUS MATERIALS.
- 02-P — REMOVE BLACK DOOR FRAME CAULK CONTAINING PCB AT CONCENTRATIONS GREATER THAN OR EQUAL TO 50 PPM AND DISPOSE OF AS HAZARDOUS MATERIALS. CAULK ALSO ACM. REFERENCE KEY NOTE 11-A.
- 03-P — REMOVE GRAY WINDOW INTERIOR FRAME CAULK CONTAINING PCB AT CONCENTRATIONS GREATER THAN OR EQUAL TO 50 PPM AND DISPOSE OF AS HAZARDOUS MATERIALS.
- 04-P — REMOVE DARK GRAY WINDOW EXTERIOR CAULK CONTAINING PCB AT CONCENTRATIONS GREATER THAN OR EQUAL TO 50 PPM AND DISPOSE OF AS HAZARDOUS MATERIALS.
- 05-P — REMOVE DARK GRAY CAULK CONTAINING PCB AT CONCENTRATIONS GREATER THAN OR EQUAL TO 50 PPM AND DISPOSE OF AS HAZARDOUS MATERIALS. CAULK ALSO ACM. REFERENCE KEY NOTE 13-A.
- 06-P — REMOVE BEIGE EXPANSION JOINT CAULK CONTAINING PCB AT CONCENTRATIONS GREATER THAN OR EQUAL TO 50 PPM AND DISPOSE OF AS HAZARDOUS MATERIALS.



1 HZ103 — FIRST FLOOR ABATEMENT PLAN
Scale: 3/32" = 1'-0"

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Consultant: atl Engineering

Project Title:
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK · JEROME JOHN DASHNAW · 099371 · LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	J. FESSETTE
Checked By:	C. DASHNAW
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Construction Documents:	03/12/2026

Sheet Title: ABATEMENT PLAN - FIRST FLOOR

Sheet No.: HZ103

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SEQUENCE OF ABATEMENT FOR ACM AND PCB:

1. REMOVE PCB-CONTAINING CAULK/SEALANT HAZARDOUS WASTE.
2. REMOVE COMINGLED ACM AND PCB-CONTAINING CAULK/SEALANT HAZARDOUS WASTE.
3. REMOVE REMAINING ACM.

HANDLING AND MANAGEMENT OF MATERIALS WITH TRACE ASBESTOS:

PERFORM WORK ACTIVITIES AFFECTING MATERIALS WITH TRACE ASBESTOS IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF OSHA 29 CFR 1926.1101. REFERENCE TABLE HZ-01B OF DRAWING NO. HZ101 FOR A SUMMARY OF IDENTIFIED MATERIALS WITH TRACE ASBESTOS.

MANAGEMENT AND DISPOSAL OF CAULK WITH PCB LESS THAN 50 PPM:

MANAGE AND DISPOSE OF MATERIALS IDENTIFIED AS HAVING LESS THAN 50 PPM PCB, PURSUANT TO APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS. MATERIAL IS NOT CLASSIFIED AS HAZARDOUS WASTE RELATIVE TO EXISTING DATA FOR PCB CONCENTRATIONS; HOWEVER, WASTE STREAM WITH THIS MATERIAL WILL REQUIRE DISPOSAL AT A FACILITY PERMITTED TO ACCEPT PCB-CONTAINING WASTE. REFERENCE TABLE HZ-02B OF DRAWING NO. HZ101 FOR A SUMMARY OF IDENTIFIED CAULK MATERIALS WITH PCB LESS THAN 50 PPM.

LEAD PAINT HANDLING AND DISPOSAL:

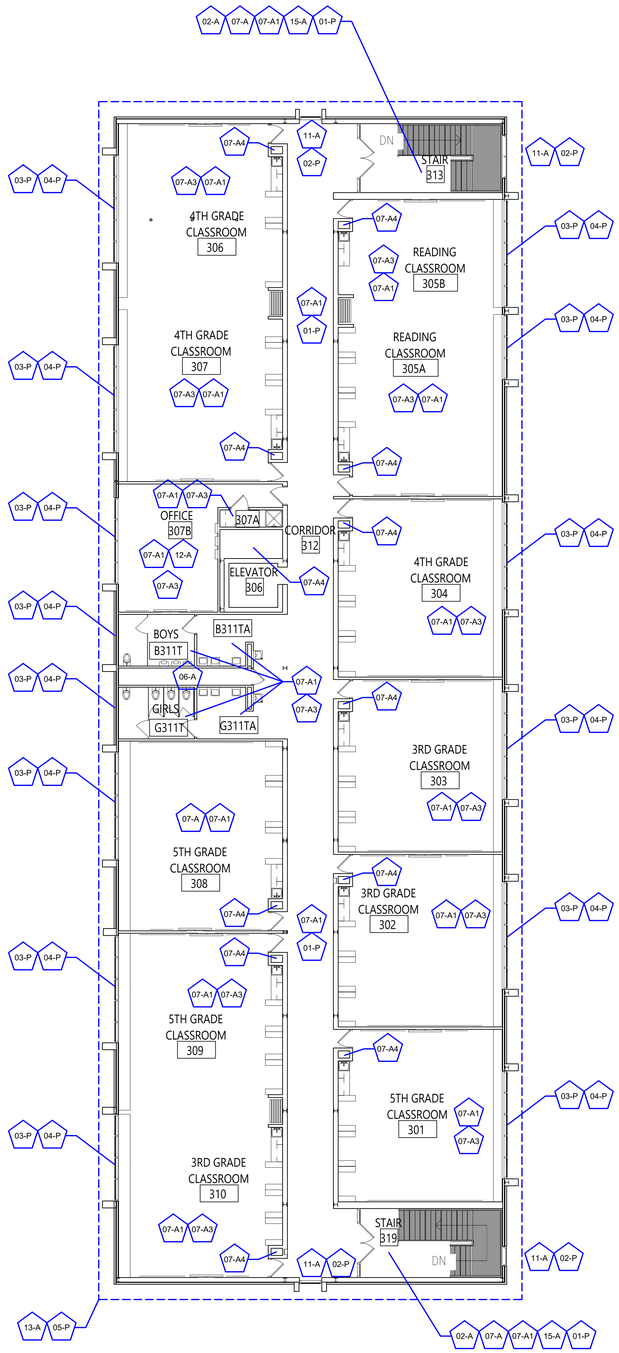
PERFORM WORK ACTIVITIES AFFECTING LEAD-CONTAINING PAINT IN ACCORDANCE WITH OSHA 29 CFR 1926.62. DISPOSE OF WASTE MATERIALS THAT ARE INCLUSIVE OF LEAD-CONTAINING PAINT IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS. REFERENCE THE LIMITED HAZARDOUS MATERIALS SURVEY REPORT FOR A SUMMARY OF IDENTIFIED LEAD-CONTAINING PAINT.

ASBESTOS ABATEMENT NOTES:

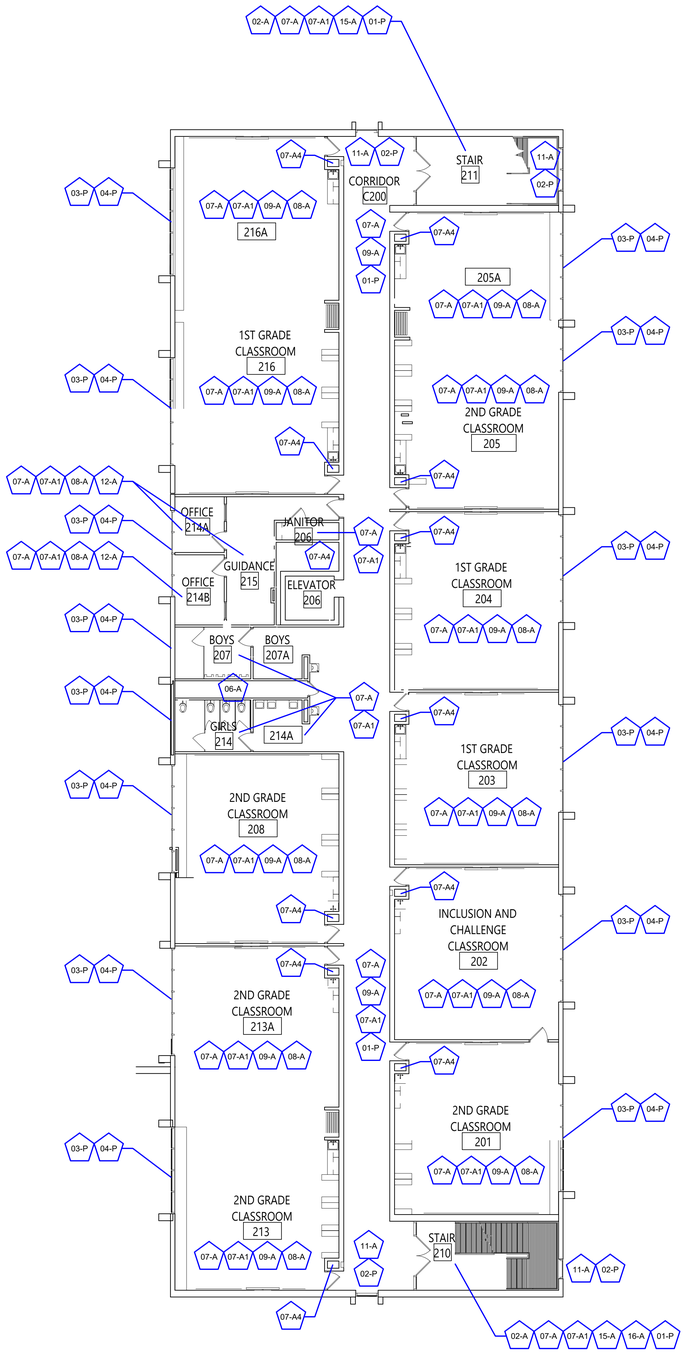
1. REFERENCE TABLE HZ-01A ON SHEET HZ101 FOR ADDITIONAL NOTES AND REQUIREMENTS PERTAINING TO ABATEMENT OF ACM.

ABATEMENT KEY NOTES

- 06-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING PIPE TSI AND PROVIDE FOR CLEANUP OF ASSOCIATED DEBRIS PURSUANT TO THE CONDITIONS OF AN APPROVED SITE-SPECIFIC VARIANCE.
- 07-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BROWN SPRAY-APPLIED FIREPROOFING ABOVE CEILING AREAS.
- 07-A1 — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BROWN/GRAY SPRAY-APPLIED FIREPROOFING DEBRIS WITH WALL GUTS.
- 07-A3 — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BROWN/GRAY SPRAY-APPLIED FIREPROOFING BEHIND POLY BARRIERS.
- 07-A4 — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BROWN/GRAY SPRAY-APPLIED FIREPROOFING WITHIN CHASE.
- 08-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING PAINTED GREEN SPRAY-APPLIED FIREPROOFING.
- 09-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING GRAY 2-INCH DIAMETER MUDDED TSI PIPE FITTING.
- 11-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BLACK DOOR/WINDOW FRAME PERIMETER CAULK. CAULK ALSO CONTAINS PCB≥50 PPM. REFERENCE KEY NOTE 02-P.
- 12-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BEIGE STONE PATTERN SHEET FLOORING AND ASSOCIATED YELLOW MASTIC.
- 13-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING LIGHT GRAY CEMENTITIOUS SOFFIT PANELS AND ASSOCIATED DARK GRAY CAULK. CAULK ALSO CONTAINS PCB≥50 PPM. REFERENCE KEY NOTE 05-P.
- 15-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING WHITE DOOR LITE BUTYL.
- 16-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING OFF-WHITE DOOR LITE BUTYL.
- 01-P — REMOVE WHITE CAULK CONTAINING PCB AT CONCENTRATIONS GREATER THAN OR EQUAL TO 50 PPM AND DISPOSE OF AS HAZARDOUS MATERIALS.
- 02-P — REMOVE BLACK DOOR FRAME CAULK CONTAINING PCB AT CONCENTRATIONS GREATER THAN OR EQUAL TO 50 PPM AND DISPOSE OF AS HAZARDOUS MATERIALS. CAULK ALSO ACM. REFERENCE KEY NOTE 11-A.
- 03-P — REMOVE GRAY WINDOW INTERIOR FRAME CAULK CONTAINING PCB AT CONCENTRATIONS GREATER THAN OR EQUAL TO 50 PPM AND DISPOSE OF AS HAZARDOUS MATERIALS.
- 04-P — REMOVE DARK GRAY WINDOW EXTERIOR CAULK CONTAINING PCB AT CONCENTRATIONS GREATER THAN OR EQUAL TO 50 PPM AND DISPOSE OF AS HAZARDOUS MATERIALS.
- 05-P — REMOVE DARK GRAY CAULK CONTAINING PCB AT CONCENTRATIONS GREATER THAN OR EQUAL TO 50 PPM AND DISPOSE OF AS HAZARDOUS MATERIALS. CAULK ALSO ACM. REFERENCE KEY NOTE 13-A.



2 HZ104 — THIRD FLOOR ABATEMENT PLAN
Scale: 3/32" = 1'-0"



1 HZ104 — SECOND FLOOR ABATEMENT PLAN
Scale: 3/32" = 1'-0"

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Consultant: atl Engineering

BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

Project Title

STATE OF NEW YORK — CHRISTINE JOHN DASH — 089577 — LICENSED PROFESSIONAL ARCHITECT

#	DATE	DESCRIPTION

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Checked By:	C. DASH-NAW
Proj. #:	03-02-00-01-0-010-014
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Construction Documents:	01/12/2026

Sheet Title: ABATEMENT PLANS - SECOND AND THIRD FLOORS

Sheet No.: HZ104

CONSTRUCTION DOCUMENTS

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SEQUENCE OF ABATEMENT FOR ACM AND PCB:

1. REMOVE PCB-CONTAINING CAULK/SEALANT HAZARDOUS WASTE.
2. REMOVE COMINGLED ACM AND PCB-CONTAINING CAULK/SEALANT HAZARDOUS WASTE.
3. REMOVE REMAINING ACM.

HANDLING AND MANAGEMENT OF MATERIALS WITH TRACE ASBESTOS:

PERFORM WORK ACTIVITIES AFFECTING MATERIALS WITH TRACE ASBESTOS IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF OSHA 29 CFR 1926.1101. REFERENCE TABLE HZ-01B OF DRAWING NO. HZ101 FOR A SUMMARY OF IDENTIFIED MATERIALS WITH TRACE ASBESTOS.

MANAGEMENT AND DISPOSAL OF CAULK WITH PCB LESS THAN 50 PPM:

MANAGE AND DISPOSE OF MATERIALS IDENTIFIED AS HAVING LESS THAN 50 PPM PCB, PURSUANT TO APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS. MATERIAL IS NOT CLASSIFIED AS HAZARDOUS WASTE RELATIVE TO EXISTING DATA FOR PCB CONCENTRATIONS; HOWEVER, WASTE STREAM WITH THIS MATERIAL WILL REQUIRE DISPOSAL AT A FACILITY PERMITTED TO ACCEPT PCB-CONTAINING WASTE. REFERENCE TABLE HZ-02B OF DRAWING NO. HZ101 FOR A SUMMARY OF IDENTIFIED CAULK MATERIALS WITH PCB LESS THAN 50 PPM.

LEAD PAINT HANDLING AND DISPOSAL:

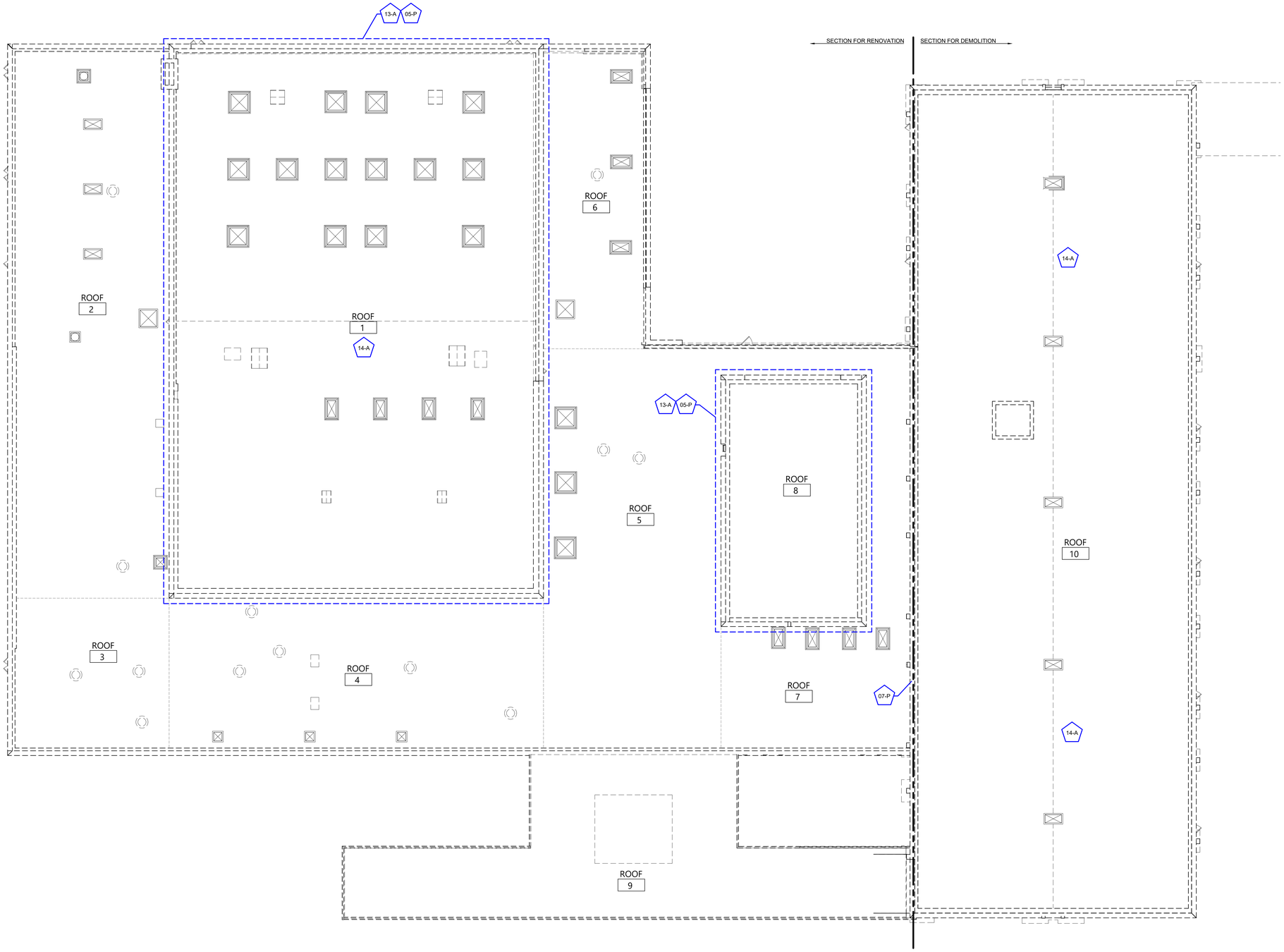
PERFORM WORK ACTIVITIES AFFECTING LEAD-CONTAINING PAINT IN ACCORDANCE WITH OSHA 29 CFR 1926.62. DISPOSE OF WASTE MATERIALS THAT ARE INCLUSIVE OF LEAD-CONTAINING PAINT IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS. REFERENCE THE LIMITED HAZARDOUS MATERIALS SURVEY REPORT FOR A SUMMARY OF IDENTIFIED LEAD-CONTAINING PAINT.

ASBESTOS ABATEMENT NOTES:

1. REFERENCE TABLE HZ-01A ON SHEET HZ101 FOR ADDITIONAL NOTES AND REQUIREMENTS PERTAINING TO ABATEMENT OF ACM.

ABATEMENT KEY NOTES

- 13-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING LIGHT GRAY CEMENTITIOUS SOFFIT PANELS AND ASSOCIATED DARK GRAY CAULK. CAULK ALSO CONTAINS PCB≥50 PPM. REFERENCE KEY NOTE 05-P.
- 14-A — REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BLACK ROOF FLASHING TAR ASSOCIATED WITH SKYLIGHTS.
- 05-P — REMOVE DARK GRAY CAULK CONTAINING PCB AT CONCENTRATIONS GREATER THAN OR EQUAL TO 50 PPM AND DISPOSE OF AS HAZARDOUS MATERIALS. CAULK ALSO ACM. REFERENCE KEY NOTE 13-A.
- 07-P — REMOVE GRAY REPAIR CAULK CONTAINING PCB AT CONCENTRATIONS GREATER THAN OR EQUAL TO 50 PPM AND DISPOSE OF AS HAZARDOUS MATERIALS.



1 HZ105 ROOF ABATEMENT PLAN
Scale: 3/32" = 1'-0"

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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT
Project Title

STATE OF NEW YORK · CHRISTOPHER JOHN DASHNAW · 089577 · LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	J. FESSETTE
Checked By:	C. DASHNAW
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Construction Documents:	03/12/2026

Sheet Title: ABATEMENT PLAN - ROOF

Sheet No.: HZ105

CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES.rvt

EXISTING CONDITIONS

1. BASE PLAN: THE TOPOGRAPHY AND SITE IMPROVEMENTS ARE BASED ON THE SURVEY "BOUNDARY/TOPOGRAPHIC SURVEY" BY HULBERT ENGINEERING AND LAND SURVEYING, P.C., DATED 10/30/2009.

2. GEOTECHNICAL DATA: GEOTECHNICAL REPORT DATED OCTOBER 6,2025 PREPARED BY ARM-NY INC. P.C.

3. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AFFECTING THE WORK AND IDENTIFY ANY DISCREPANCIES TO THE OWNER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.

DOCUMENT USE

1. THESE PLANS AND CORRESPONDING CAD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE, AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED, WRITTEN CONSENT OF PASSERO ASSOCIATES. ANY UNAUTHORIZED USE, REUSE, MODIFICATION OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO PASSERO ASSOCIATES.

2. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, AND SHALL VERIFY FIELD-LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PRINTED VERSION OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.

3. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.

LAYOUT AND MATERIALS

1. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.

2. CURB RADII ARE 5 FEET UNLESS OTHERWISE NOTED.

3. CURBING SHALL BE CAST IN PLACE UNLESS OTHERWISE INDICATED ON THE CONTRACT DOCUMENTS.

4. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.

5. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.

6. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AT THE INTERFACE WITH PROPOSED SITE IMPROVEMENTS AND NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND DESIGN PRIOR TO PROCEEDING WITH THE WORK.

DEMOLITION NOTES

1. EXISTING UTILITIES SHALL BE TERMINATED IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES.

2. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.

4 THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING ITS BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE WORK.

5. UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES OR POLLUTANTS AT THE PROJECT SITE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS, DAMAGE, EXPENSE, DELAY, INJURY OR DEATH ARISING FROM THE PRESENCE OF HAZARDOUS MATERIAL AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOREOVER, THE ENGINEER SHALL HAVE NO ADMINISTRATIVE OBLIGATIONS OF ANY TYPE WITH REGARD TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF ASBESTOS OR OTHER HAZARDOUS MATERIALS.

CONSTRUCTION SEQUENCE FOR GRADING AND EROSION & SEDIMENT CONTROL

1. ALL EROSION AND SEDIMENT CONTROL METHODS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. AT THE VERY MINIMUM, EROSION CONTROL SHALL BE AS SHOWN ON THIS PLAN. EROSION CONTROL MAY CONSIST OF SEDIMENT TRAPS AND/OR ENVIRONMENTAL FENCES. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INTEGRITY, MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES UNTIL NO LONGER DEEMED NECESSARY BY THE ENGINEER. THE SITE CONTRACTOR SHALL MAINTAIN THE STORM SEWER SYSTEM UNTIL THE PROJECT IS DEVELOPED AND APPROVED BY THE OWNER AND ENGINEER. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. THE PERMITTEE SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STONE FILL. CORRECTIVE ACTIONS, AS IDENTIFIED BY THE QUALIFIED SWPPP INSPECTOR SHALL BE INITIATED WITHIN 24 HOURS OF BEING REPORTED. THE ENGINEER MAY REVIEW THE PROJECT SITE AT ANY TIME. REVIEW OF EROSION CONTROL MEASURES BY THE ENGINEER DOES NOT RELIEVE THE SITE CONTRACTOR OF THEIR OBLIGATIONS UNDER THE NYSDEC SPDES GENERAL PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION ACTIVITY (GP-0-25-001).

2. INSTALL STABILIZED CONSTRUCTION ENTRANCE (SCE). THE SCE LOCATION IS SHOWN SCHEMATICALLY ON THE PLANS AND SHALL BE MODIFIED BY THE CONTRACTOR ACCORDING TO SITE CONDITIONS AND OPERATIONS.

3. CONSTRUCT EROSION CONTROL MEASURES AND STORMWATER MANAGEMENT AREAS AS SHOWN ON THE PLANS AND AS REQUIRED BY SITE CONDITIONS. ADDITIONAL AND/OR MODIFIED EROSION CONTROL MEASURES MAY BE REQUIRED BASED UPON ACTUAL FIELD CONDITIONS AS ORDERED BY ENGINEER.
   3.1. TEMPORARY EROSION CONTROL MEASURES, INCLUDING SILT FENCES AND/OR STRAW BALE DIKES, DRAINAGE STRUCTURES, SEDIMENT TRAPS, SEDIMENTATION BASINS, PERIMETER SWALES/DIKES, AND RIP-RAP PROTECTION SHALL BE INSTALLED PRIOR TO GROUND DISTURBANCE FOR GRADING AND CONSTRUCTION.

4. CONSTRUCT TEMPORARY/PERMANENT SWALES AS SHOWN ON THE PLANS.

5. CLEAR AND GRUB THE WORK AREA(S).

6. STRIP TOPSOIL AND STOCKPILE ON-SITE AT A LOCATION APPROVED BY THE OWNER. STABILIZE THE STOCKPILE IN ACCORDANCE WITH MUNICIPAL AND NYSDEC REGULATIONS.

7. GRADE IMPROVEMENT AREAS WITHIN THE WORK AREA(S). AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 7 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH, OR OTHER METHOD APPROVED BY THE ENGINEER, WITHIN 7 DAYS OF THE LAST DISTURBANCE.

8. CONSTRUCT SEDIMENT BARRIERS AS SHOWN ON THE PLANS.

9. REPLACE TOPSOIL AND FINE GRADE WHERE APPLICABLE.
   9.1. MINIMUM OF 6" OF TOPSOIL SHALL BE PLACED ON ALL GRASS AREAS.

12. HYDRO-SEED ALL DISTURBED AREAS WITHIN 10 DAYS AFTER FINAL GRADING. THE CONTRACTOR SHALL RE-APPLY HYDRO-SEED OR USE ANOTHER METHOD APPROVED BY THE ENGINEER IF THE HYDRO-SEED IS DAMAGED OR GROWTH IS UNSATISFACTORY.

13. UPON APPROVAL OF THE ENGINEER, CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS AND STABILIZE THE DISTURBED AREAS.

UTILITIES

1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY BASED ON THE PROVIDED SURVEY(S), LIMITED SUBSURFACE UTILITY EXPLORATION (SUE), AND FIELD OBSERVATIONS. THE OWNER OR IT'S REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES.
   1.1. CONTRACTOR SHALL PERFORM THEIR OWN SUBSURFACE UTILITY EXPLORATION IN THE WORK AREAS, OR AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED; THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE AND ENGINEER FOR THE RESOLUTION OF THE CONFLICT. CONTRACTOR'S FAILURE TO NOTIFY THE OWNER'S REPRESENTATIVE & PROJECT ENGINEER PRIOR TO PERFORMING THE WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.

3. SET CATCH BASIN RIMS, PIPE INVERTS, AND OTHER DRAINAGE INFRASTRUCTURE IN ACCORDANCE WITH ELEVATIONS ON THE PLANS. A DEVIATION OF UP TO -0.1FT IS ACCEPTABLE.

4. RIM ELEVATIONS FOR DRAIN AND SEWER MANHOLES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND OTHER SUCH ITEMS, ARE APPROXIMATE AND SHALL BE SET/RESET AS FOLLOWS:
   4.1. PAVEMENTS AND CONCRETE SURFACES: FLUSH
   4.2. ALL SURFACES ALONG ADA ACCESSIBLE ROUTES: FLUSH
   4.3. LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER TO THE ADJACENT HARDSCAPE/STRUCTURE ELEVATION.

5. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY OWNER. FINAL DESIGN LOADS AND LOCATIONS FOR THESE UTILITIES SHALL BE COORDINATED WITH OWNER AND ENGINEER.

6. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR UTILITY POLE RELOCATION/MODIFICATION AND/OR THE ALTERATION AND ADJUSTMENT OF EXISTING GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITIES COMPANY.

7. UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN:
   7.1. STORM DRAINAGE PIPES: HDPE UNLESS NOTED OTHERWISE
   7.2. PIPES INTERNAL TO THE BUILDING: PVC UNLESS NOTED OTHERWISE ON THESE PLANS AND/OR PLANS PREPARED BY OTHER PROFESSIONALS.

8. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED SITEWORK RELATED ITEMS SUCH AS PULL BOXES, CONDUITS, DUCT BANKS, LIGHT POLE BASES, AND CONCRETE PADS. CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS INDICATED ON THE DRAWINGS.

9. ALL DRAINAGE STRUCTURE INTERIOR DIAMETERS SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS, AND APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. THE MANUFACTURER'S RECOMMENDATIONS FOR STRUCTURE SIZE AND CONFIGURATION WILL SUPERCEDE THE INFORMATION IN THE CONTRACT DOCUMENTS, AND CONTRACT SHALL PROVIDE SHOP DRAWINGS TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.

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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK
CHRISTOPHER J. LAPOINTA
102592
LICENSED PROFESSIONAL ENGINEER
EXPIRES: 09/30/28

#	DATE	DESCRIPTION

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Sheet Title
NOTES

Sheet No.
TRES
C102

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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK · CHRISTOPHER J. LAPORTA · 110591 · LICENSED PROFESSIONAL ENGINEER

LICENSED ARCHITECT

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Sheet Title
DEMOLITION PLAN

Sheet No.
TRES C120

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HORIZONTAL SCALE
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SCALE: 1"=20'

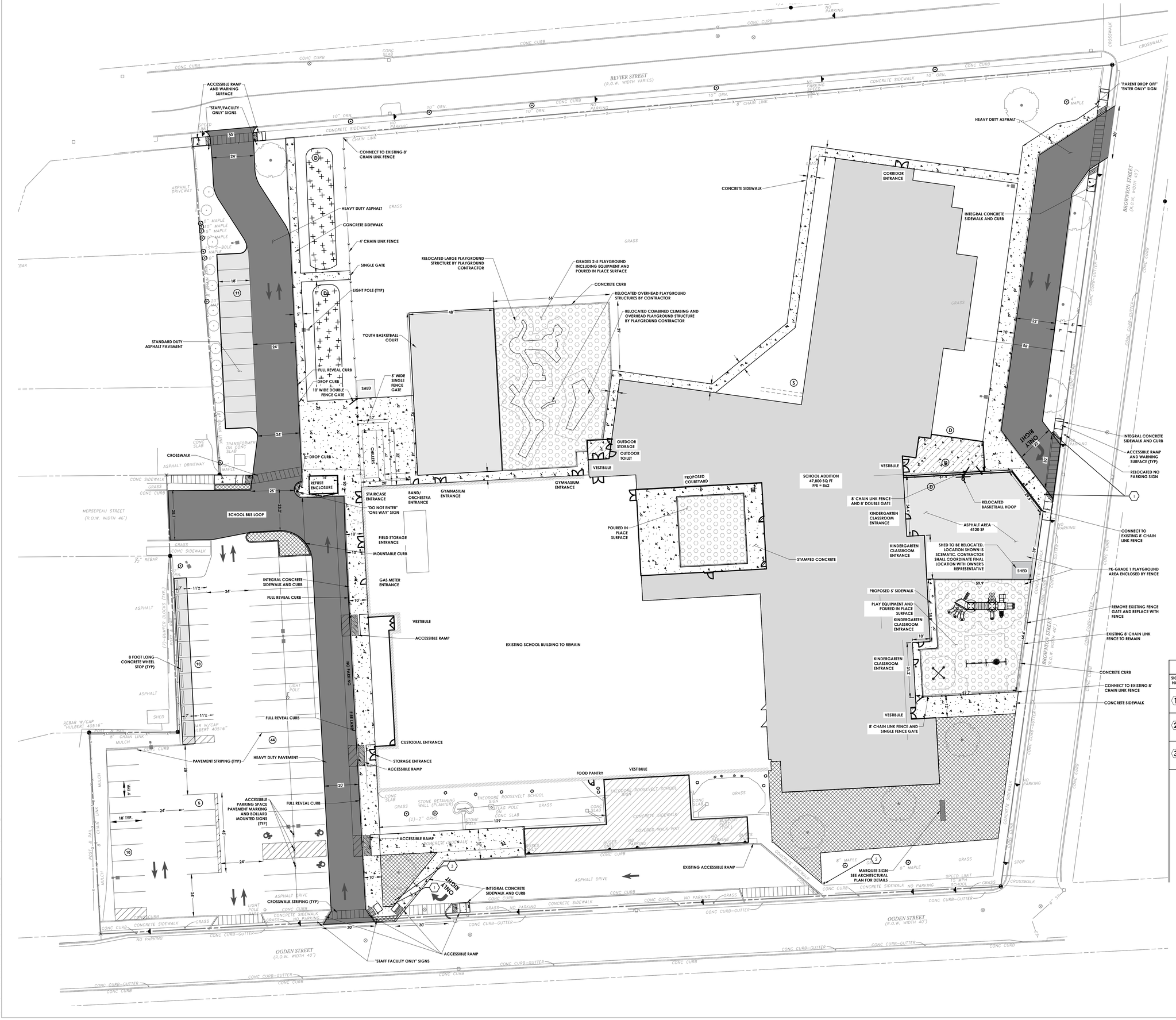
N

LEGEND - DEMO:
- EXISTING BUILDING TO BE DEMOLISHED. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION
- EXISTING ASPHALT AND SUB-BASE TO BE SAWCUT, REMOVED AND DISPOSED OFF-SITE
- EXISTING SIDEWALK AND CURB OR CONCRETE SURFACE TO BE REMOVED AND DISPOSED OFF-SITE
- EXISTING GRASS TO BE REMOVED AND DISPOSED OFF-SITE
- EXISTING ENGINEERED WOOD FIBER TO BE REMOVED AND DISPOSED OFF-SITE
- SAWCUT EDGE OF PAVEMENT
- EXISTING FEATURE TO BE REMOVED
- EXISTING FEATURE TO BE REMOVED
- EXISTING BUILDING CANOPY TO BE REMOVED AND DISPOSED OFF-SITE

REMOVE TO NEAREST JOINT
REMOVE BACKSTOP AND DISPOSE OFF-SITE
EXISTING TREE TO REMAIN & BE PROTECTED
REMOVE CURB AND CURB GUTTER TO NEAREST JOINT
SALVAGE AND STORE EXISTING FLAG POLE AT A TIME SIGN. COORDINATE EXACT SIDE LOCATION WITH OWNER
REMOVE CATCH BASIN
REMOVE CURB AND CURB GUTTER TO NEAREST JOINT
REMOVE TO NEAREST JOINT
REMOVE CHAIN LINK FENCE AND GATES AND DISPOSE OFF SITE
DEMO EXISTING TREE LOCATION IS APPROXIMATE
REMOVE DRY WELL
REMOVE EXISTING BENCHES AND DISPOSE OFF-SITE
REMOVE WOOD CURB
PLAYGROUND CONTRACTOR SHALL DISASSEMBLE PLAYGROUND EQUIPMENT AND STORE AT A LOCATION COORDINATED WITH THE OWNER. PLAYGROUND CONTRACTOR SHALL COORDINATE WITH THE OWNER TO IDENTIFY EQUIPMENT TO BE SALVAGED AND EQUIPMENT TO BE DISPOSED OF. PLAYGROUND CONTRACTOR SHALL REINSTALL ALL SALVAGED EQUIPMENT
REMOVE CATCH BASIN
PLAYGROUND CONTRACTOR SHALL DISASSEMBLE PLAYGROUND EQUIPMENT AND STORE AT A LOCATION COORDINATED WITH THE OWNER. PLAYGROUND CONTRACTOR SHALL COORDINATE WITH THE OWNER TO IDENTIFY EQUIPMENT TO BE SALVAGED AND EQUIPMENT TO BE DISPOSED OF. PLAYGROUND CONTRACTOR SHALL REINSTALL ALL SALVAGED EQUIPMENT
EXISTING BUILDING TO BE DEMOLISHED. SEE ARCHITECTURAL PLANS FOR DETAILS
REMOVE EXISTING BASE, POLE & FIXTURE DISPOSE OFF-SITE
REMOVE ASPHALT AND REseED
SAWCUT EXISTING PAVEMENT
REMOVE EXISTING CONC BASE & FIXTURE DISPOSE OFF-SITE
REMOVE EXISTING BASE, POLE AND FIXTURE DISPOSE OFF-SITE
REMOVE EXISTING 8' CHAIN LINK FENCE & GATES TO FACILITATE PROPOSED PARKING LOT
REMOVE EXISTING TREES AND DISPOSE OF OFF-SITE (TYP)
SALVAGE AND STORE EXISTING GAZEBO. NEW LOCATION TO BE DETERMINED BY OWNER COORDINATE EXACT LOCATION WITH OWNER
REMOVE BACKSTOP AND DISPOSE OFF-SITE
SALVAGE AND STORE EXISTING SHED. COORDINATE EXACT LOCATION WITH OWNER
REMOVE EXISTING BASE, POLE AND FIXTURE DISPOSE OFF-SITE
SAWCUT EXISTING PAVEMENT
REMOVE EXISTING BASE, POLE AND FIXTURE DISPOSE OFF-SITE

BROWNSON STREET
BEVIER STREET
OGDEN STREET
THEODORE ROOSEVELT ELEMENTARY SCHOOL

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HORIZONTAL SCALE
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SCALE: 1"=20'

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LEGEND:

- PROPERTY BOUNDARY
- PROPOSED BUILDING
- PROPOSED BUILDING CANOPY
- STANDARD DUTY ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- PROPOSED LAWN
- PROPOSED CONCRETE
- POURED IN PLACE SURFACE
- PROPOSED LIGHT
- PROPOSED CURB
- EXISTING BUILDING
- PROPOSED PAVEMENT STRIPING
- PROPOSED PARKING COUNT
- PROPOSED HISTORIC DISTRICT TREE PIT
- EXISTING STORM SEWER & CATCH BASIN
- PROPOSED WATER SERVICE W/ HYDRANT & VALVE
- PROPOSED SANITARY SEWER AND MANHOLE
- EXISTING CENTER LINE ROAD
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED SIGN

MUTCD SIGN SCHEDULE

SIGN NO.	SIGN FACE	MUTCD NUMBER	MIN SIZE	COLORS	
				BCKGRND	LEGEND
1	DO NOT ENTER	R5-1	30"X30"	RED	WHITE
2	NO PARKING	R8-3A	18"X24"	WHITE	RED

MUTCD SIGN SCHEDULE

SIGN NO.	SIGN FACE	MUTCD NUMBER	MIN SIZE	COLORS		MOUNTING
				BCKGRND	LEGEND	
1	DO NOT ENTER	R5-1	30"X30"	RED	WHITE	S C-S10
2	DO NOT ENTER BUSES ONLY	NA	18"X24"	WHITE (TOP) BLACK BOTTOM)	RED (TOP OUTLINE) WHITE (BOTTOM)	S C-S10
3	ONLY	R3-5	30"X36"	WHITE	BLACK	S C-S10

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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

Project Title

STATE OF NEW YORK
CHRISTOPHER J. LAPORTE
102592
LICENSED PROFESSIONAL ENGINEER
EXPIRES: 09/30/28

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Sheet Title
SITE PLAN

Sheet No.
TRES
C130

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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

Project Title

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EXPIRES: ON SEAL

#	DATE	DESCRIPTION

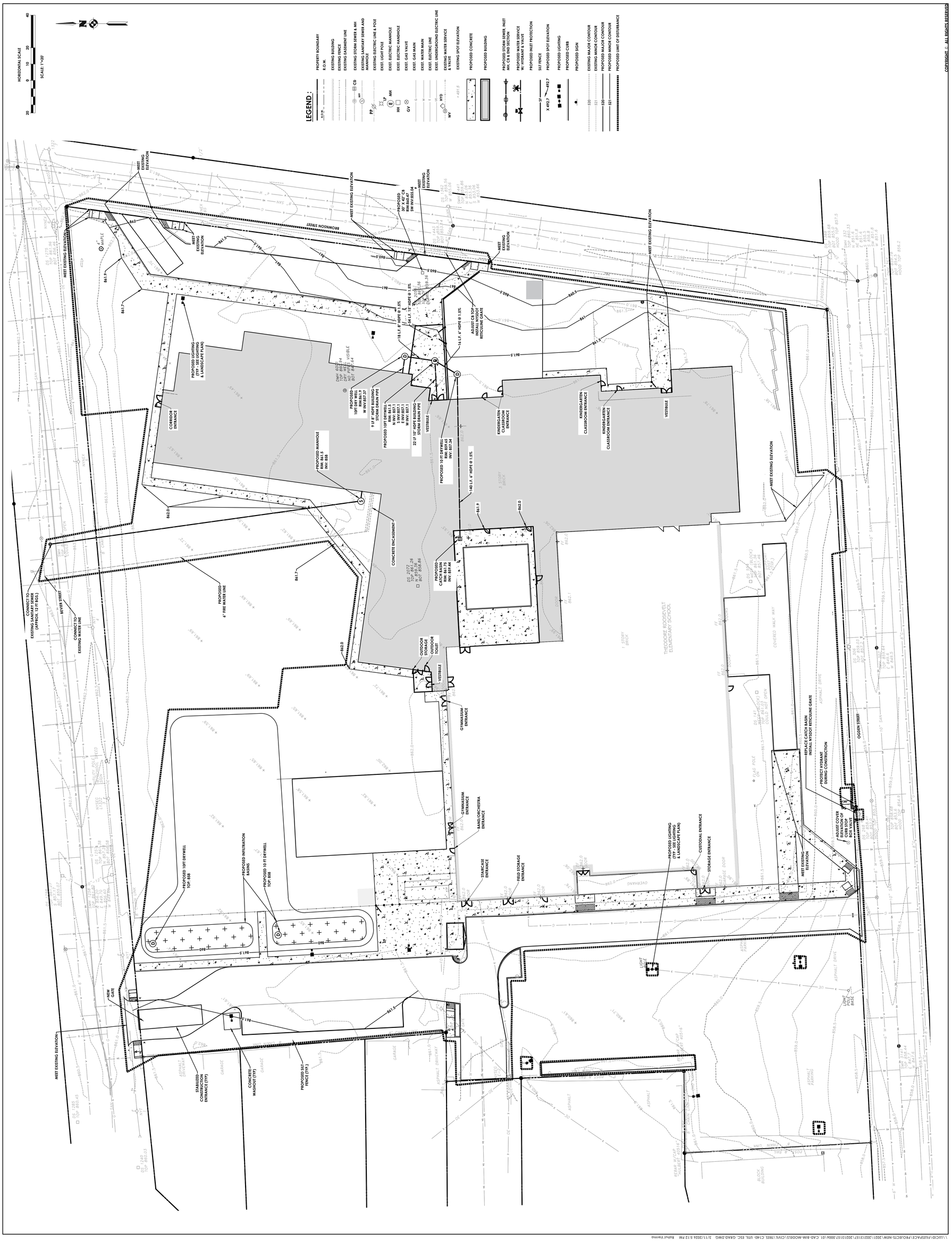
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Project No.#: 2022-00-01-A-01012-2024
CSArch Proj. #: 215-2402
CD Submission: 03/12/2026

Sheet Title

UTILITY, EROSION AND SEDIMENT CONTROL & GRADING PLAN

Sheet No.

TRES
C140



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PLANT_SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. CALLIPER/HEIGHT	CONTAINER	REMARKS
DECIDUOUS TREES							
	GT	9	GLEDITSIA TRIACANTHOS INERMIS	THORNLESS HONEY LOCUST	CAL. - 2.5-3"	B&B	
EVERGREEN TREES							
	TO	12	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	HT. - 5-6`	#5	

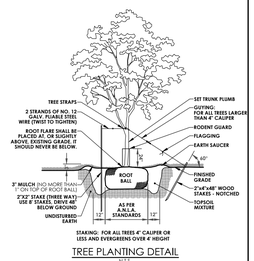


HORIZONTAL SCALE
20 0 10 20 40
SCALE: 1"=20'

N

LEGEND - SITE:

- PROPERTY BOUNDARY
- EXISTING BUILDING
- PROPOSED BUILDING
- PROPOSED CURB
- PROPOSED LAWN
- PROPOSED LIGHT



TREE PLANTING DETAIL
N.T.S.



PLANTING BED EDGE TRENCH
N.T.S.

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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK
CHRISTOPHER J. LAPORTE
102597
LICENSED PROFESSIONAL ENGINEER
EXPIRES 09/30/25

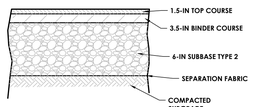
NO.	DATE	DESCRIPTION

Drawn By:	AL/TO
Checked By:	RV
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
CD Submission:	03/12/2026

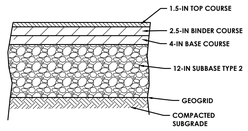
Sheet Title
LIGHTING & LANDSCAPING PLAN

Sheet No.
TRES C150

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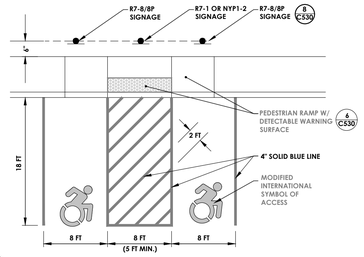
1A STANDARD DUTY ASPHALT PAVEMENT SECTION
N.T.S.



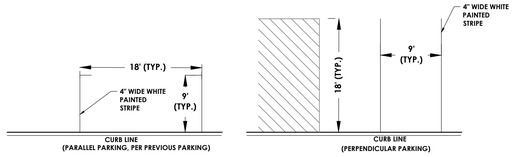
1B HEAVY DUTY PAVEMENT SECTION
N.T.S.

NOTES:

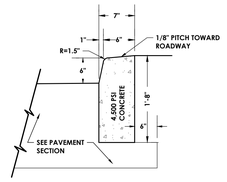
1. ALL DEPTHS ARE COMPACTED THICKNESS.
2. MAXIMUM LIFT THICKNESS= 6 INCHES
3. ALL MATERIALS SHALL BE AS SPECIFIED OR APPROVED EQUAL.
4. BINDER COURSE SHALL BE SWEPT CLEAR TO REMOVE ANY LOOSE MATERIAL PRIOR TO PLACING TOP COAT. IF TOP COURSE IS NOT PLACED WITHIN TWENTY FOUR HOURS OF BINDER PLACEMENT, A TACK COAT SHALL BE APPLIED TO CLEAN SURFACE PRIOR TO PLACEMENT OF TOP COURSE.



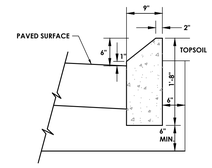
2 ACCESSIBLE PARKING SPACE PAVEMENT MARKING DETAIL
N.T.S.



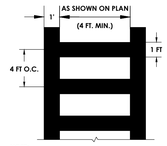
3 TYPICAL PARKING PAVEMENT MARKING LAYOUTS
N.T.S.



4 CONCRETE CURB
N.T.S.



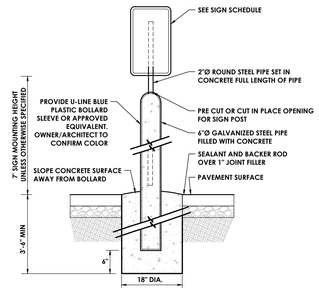
5 MOUNTABLE CONCRETE CURB DETAIL
N.T.S.



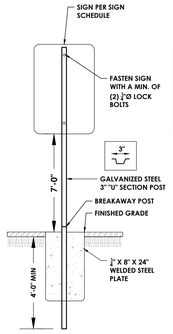
NOTE:

1. PAVEMENT MARKING COLOR SHALL BE WHITE.
2. PAVEMENT MARKING PAINT SHALL BE EPOXY REFLECTORIZED.

6 CROSSWALK DETAIL
N.T.S.



BOLLARD MOUNTED SIGN
N.T.S.
(SIGN IN PARKING LOT OR DRIVE)

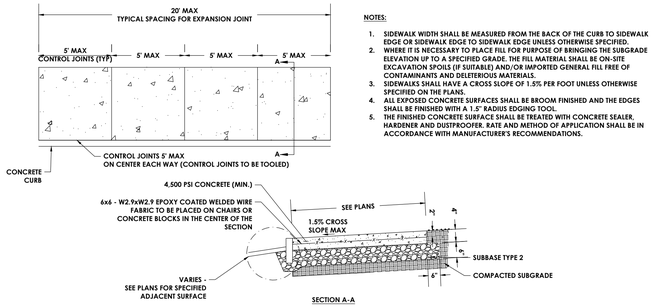


SINGLE POST SIGN MOUNTING DETAIL
(SIGN IN LANDSCAPE AREA OR SIDEWALK)



SIGN SCHEDULE

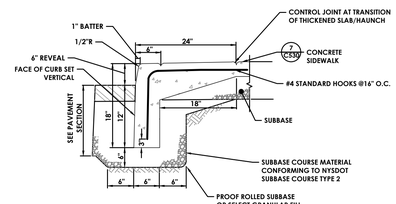
8 SIGN & MOUNTING DETAIL WITH SCHEDULE
N.T.S.



NOTES:

1. SIDEWALK WIDTH SHALL BE MEASURED FROM THE BACK OF THE CURB TO SIDEWALK EDGE OR SIDEWALK EDGE TO SIDEWALK EDGE UNLESS OTHERWISE SPECIFIED.
2. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSE OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL SHALL BE ON-SITE EXCAVATION SPOILS (IF SUITABLE) AND/OR IMPORTED GENERAL FILL FREE OF CONTAMINANTS AND DELETERIOUS MATERIALS.
3. SIDEWALKS SHALL HAVE A CROSS SLOPE OF 1.5% PER FOOT UNLESS OTHERWISE SPECIFIED ON THE PLANS.
4. ALL EXPOSED CONCRETE SURFACES SHALL BE BROOM FINISHED AND THE EDGES SHALL BE FINISHED WITH A 1.5" RADIUS EDGING TOOL.
5. THE FINISHED CONCRETE SURFACE SHALL BE TREATED WITH CONCRETE SEALER, HARDENER AND DUSTPROOFER. RATE AND METHOD OF APPLICATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

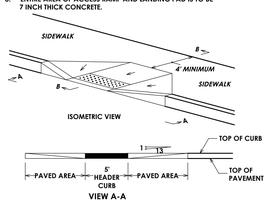
7 TYPICAL SIDEWALK DETAIL
N.T.S.



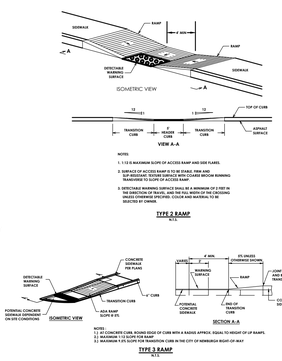
12 INTEGRAL CONCRETE CURB & SIDEWALK
N.T.S.

TYPE 1 RAMP NOTES:

1. 1:13 IS MAXIMUM SLOPE OF ACCESS RAMP AND SIDE FLARE IN PAVED AREA.
2. SURFACE OF ACCESS RAMP IS TO BE STABLE, FIRM AND SLIP-RESISTANT. TEXTURE SURFACE WITH COARSE BROOM RUNNING TRANSVERSE TO SLOPE OF ACCESS RAMP.
3. ENTIRE AREA OF ACCESS RAMP AND LANDING PAD IS TO BE 7 INCH THICK CONCRETE.



TYPE 1 RAMP
N.T.S.



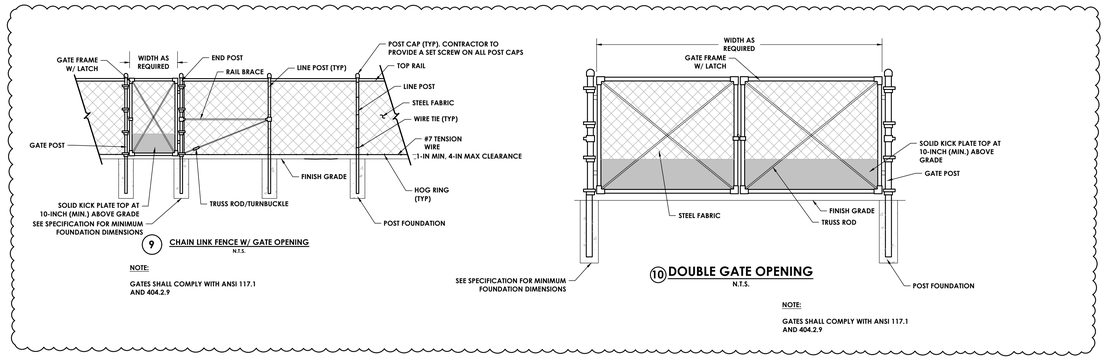
NOTES:
1.) AT CONCRETE CURB, ROUND EDGE OF CURB WITH A RADIUS APPROX. EQUAL TO HEIGHT OF LIP RAMPS.
2.) MAXIMUM 1:12 SLOPE FOR RAMP.
3.) MAXIMUM 1:20 SLOPE FOR TRANSITION CURB IN THE CITY OF MINEBROOK RIGHT-OF-WAY

TYPE 2 RAMP
N.T.S.

TYPE 3 RAMP
N.T.S.

11 ADA ACCESSIBLE CURB RAMPS
N.T.S.

1



9 CHAIN LINK FENCE W/ GATE OPENING
N.T.S.

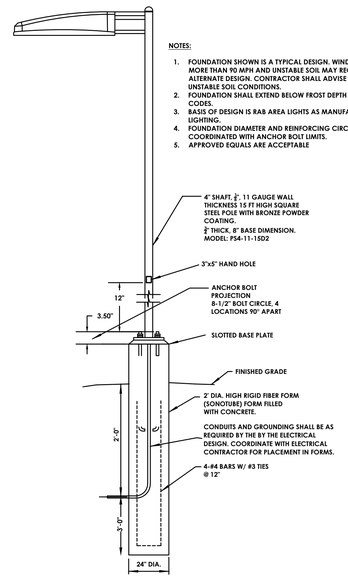
NOTE:

GATES SHALL COMPLY WITH ANSI 117.1 AND 404.2.9

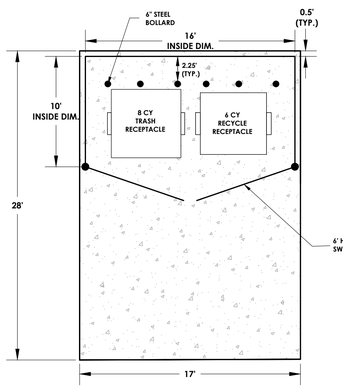
10 DOUBLE GATE OPENING
N.T.S.

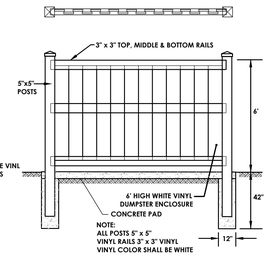
NOTE:

GATES SHALL COMPLY WITH ANSI 117.1 AND 404.2.9



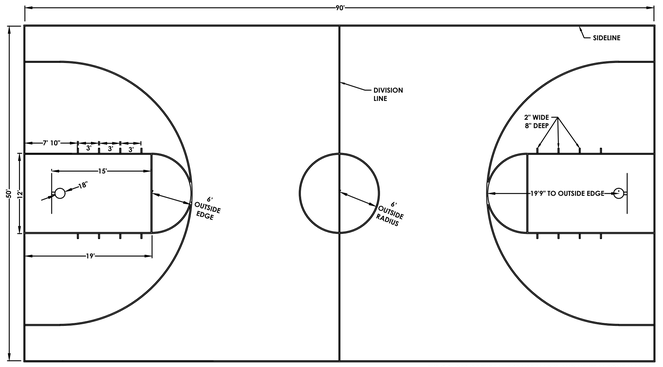
13 LIGHT FIXTURE, POLE AND BASE DETAIL
N.T.S.





FENCE ELEVATION

14 DOUBLE ENCLOSURE PLAN
N.T.S.



3 FT. MINIMUM UNOBSTRUCTED SPACE OUTSIDE SIDELINES (PREFERABLY 10 FT.)

THE COLORS OF THE LANE SPACE MARKS AND NEUTRAL ZONE MARKS SHALL CONTRAST WITH THE COLOR OF THE LANE BOUNDARY LINES

15 BASKETBALL COURT DETAIL
N.T.S.

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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

Project Title

STATE OF NEW YORK
CHRISTOPHER J. LAPORTA
102592
LICENSED PROFESSIONAL ENGINEER
EXPIRES: 09/30/28

P.	DATE	DESCRIPTION

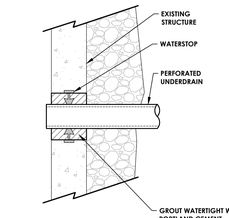
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CD Submission:	03/12/2026

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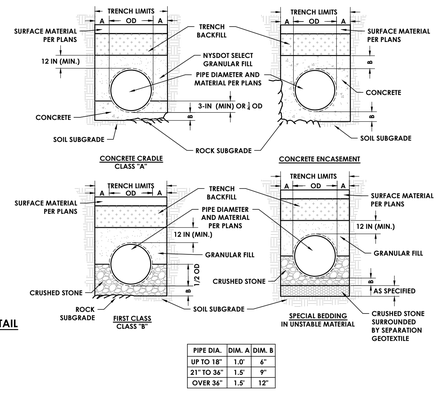
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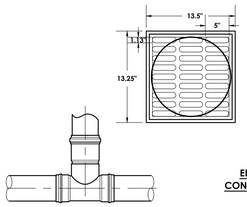
1 CONNECTION TO EXISTING STRUCTURE DETAIL
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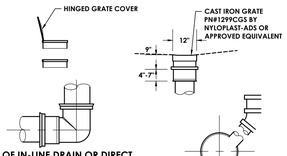


PIPE DIA.	DIM. A	DIM. B
UP TO 18"	1.0'	6"
21" TO 36"	1.5'	9"
OVER 36"	1.5'	12"

NOTES
1. TRENCH BACKFILL SHALL BE GRANULAR FILL, OR SUITABLE NATIVE SOIL APPROVED BY THE ENGINEER AND SHALL BE COMPACTED.
2. SUBGRADE ON TRENCH BOTTOM SHALL BE COMPACTED TO A FIRM, UNYIELDING STATE PRIOR TO PLACEMENT OF ANY MATERIALS ABOVE IT.

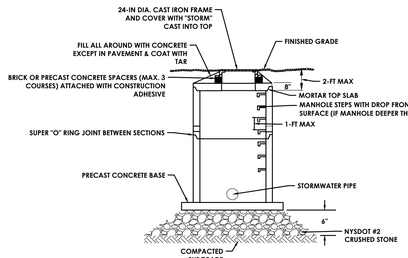
2 STORM SEWER/SANITARY SEWER BEDDING DETAILS
N.T.S.



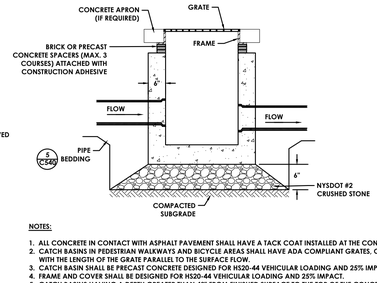


NOTES:
1. INLINE DRAIN SHALL BE BY NYLOPLAST OR APPROVED EQUIVALENT.
2. WHEN IN CONCRETE SIDEWALK AND PAVED AREAS, DRAIN SHALL BE SET IN A 13" WIDE CONCRETE COLLAR FROM THE CENTER OF DRAIN.
3. PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT.
4. PIPE AND STRUCTURE SHALL BE SET AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND TRENCH DETAILS.

3 YARD DRAIN AND GRATE
N.T.S.

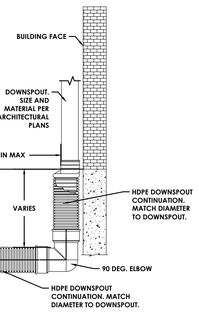


4 STANDARD STORM MANHOLE DETAIL
N.T.S.



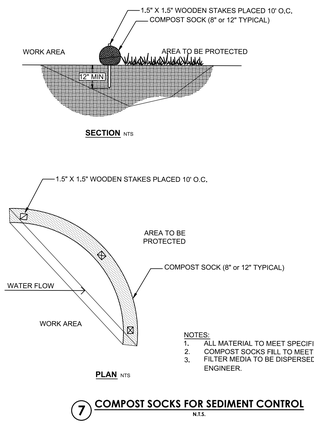
NOTES:
1. ALL CONCRETE IN CONTACT WITH ASPHALT PAVEMENT SHALL HAVE A TACK COAT INSTALLED AT THE CONCRETE/ASPHALT INTERFACE.
2. CATCH BASINS IN PEDESTRIAN WALKWAYS AND BICYCLE AREAS SHALL HAVE ADA COMPLIANT GRATES, OTHERWISE SHALL HAVE RETICULINE GRATES WITH THE LENGTH OF THE GRATE PARALLEL TO THE SURFACE FLOW.
3. CATCH BASIN SHALL BE PRECAST CONCRETE DESIGNED FOR HS20-44 VEHICULAR LOADING AND 25% IMPACT.
4. FRAME AND COVER SHALL BE DESIGNED FOR HS20-44 VEHICULAR LOADING AND 25% IMPACT.
5. CATCH BASINS HAVING A DEPTH GREATER THAN 48" FROM FINISHED SURFACE TO THE TOP OF THE CONCRETE BASE SHALL BE PROVIDED WITH MANHOLE STEPS.
6. SUBGRADE SHALL BE COMPACTED TO A FIRM, UNYIELDING STATE PRIOR TO PLACEMENT OF ANY MATERIALS ABOVE IT. A WATER-PERMEABLE SEPARATION FABRIC SHALL BE INSTALLED BETWEEN THE SUBGRADE AND STONE MATERIALS.

5 STANDARD CATCH BASIN DETAIL
N.T.S.



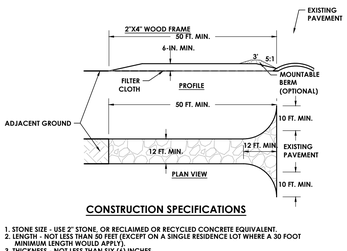
NOTES:
1. CONTRACTOR SHALL PROVIDE ALL FITTINGS AND ACCESSORIES TO COMPLETE PIPE CONNECTIONS AND PROVIDE A USABLE CLEANOUT.
2. ALL FITTINGS SHALL BE WATERTIGHT.
3. CLEANOUT RISER DIAMETER SHALL MATCH DISCHARGE PIPE DIAMETER.
4. AN ECCENTRIC PIPE DIAMETER EXPANDER OR REDUCER FITTING SHALL BE INSTALLED IF REQUIRED. THIS FITTING SHALL BE COMPATIBLE WITH ADJACENT PIPE MATERIALS AND SOIL CONDITIONS.
5. CLEANOUT RISER ASSEMBLY DIAMETER SHALL MATCH THE DOWNSPOUT CONTINUATION PIPE DIAMETER.
6. WATERTIGHT COVER SHALL BE FLUSH WITH ADJACENT FINISH GRADE, UNLESS OTHERWISE SPECIFIED BY ENGINEER OR OWNER.

6 ROOF DRAIN W/WYE CLEANOUT
N.T.S.



NOTES:
1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. COMPOST SOCKS FILL TO MEET APPLICATION REQUIREMENTS.
3. FILTER MEDIA TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

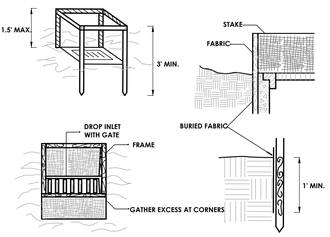
7 COMPOST SOCKS FOR SEDIMENT CONTROL
N.T.S.



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN

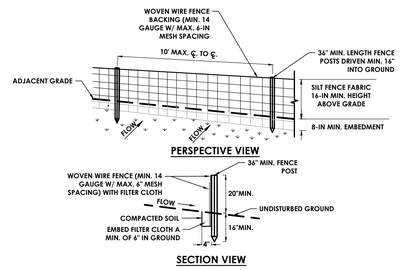
8 STABILIZED CONSTRUCTION ENTRANCE
N.T.S.



CONSTRUCTION SPECIFICATIONS

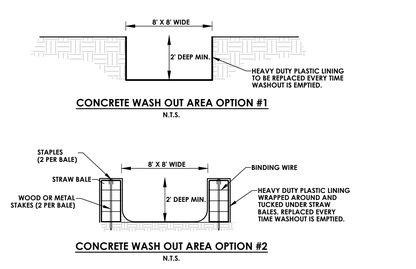
1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKES MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPACING GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
7. DRAINAGE AREA TO EACH PRACTICE SHALL NOT EXCEED 1 ACRE.

9 FILTER FABRIC DROP INLET PROTECTION
N.T.S.

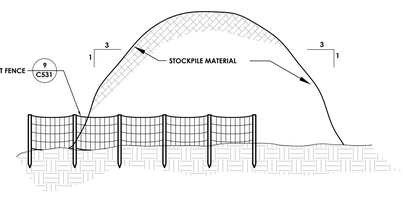


NOTES:
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24' AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 14 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER- LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

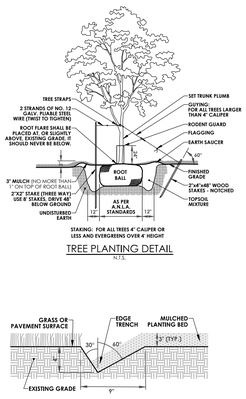
10 SILT FENCE DETAIL
N.T.S.

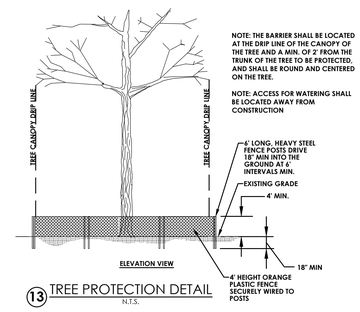


11 CONCRETE WASH OUT AREA
N.T.S.



12 STOCKPILE AREA DETAIL
N.T.S.





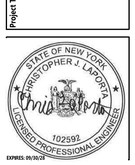
13 TREE PROTECTION DETAIL
N.T.S.

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CSARCH

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PASSERO engineering architecture

THE EDUCATION LAW OF THE STATE OF NEW YORK PROHIBITS ANY ALTERATION FROM ALTERING ANYTHING ON THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS, IN ANY WAY, EXCEPT BY THE DIRECTION OF A LICENSED ENGINEER. WHERE SUCH ALTERATIONS ARE MADE, THE ALTERING ENGINEER SHALL AFFIX HIS SEAL, SIGN, SEAL, DATE, AND DESCRIBE THE ALTERATION. FAILURE TO ALTER ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS, PAYS EDUCATION LAW SECTION 7209.2

Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT



#	DATE	DESCRIPTION

Drawn By:	AL/TO
Checked By:	RV
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
CD Submission:	03/12/2026

Sheet Title
STORMWATER, EROSION AND SEDIMENT CONTROL DETAILS

Sheet No.
TRES C531

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GENERAL NOTES:

1. ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, HVAC, AND PLUMBING DRAWINGS AND SPECIFICATIONS.
2. THE CONTRACTOR(S) SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, ETC. IN THE FIELD AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION OR SHOP DRAWINGS.
3. THE DRAWINGS ARE INTENDED TO REQUIRE AND TO INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT PROPER FOR THE WORK.
4. ALL WORK SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES AND REQUIREMENTS.
5. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND SAFETY PROCEDURES. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR THEIR AGENTS OR EMPLOYEES OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK.
6. OBSERVE ALL OSHA AND OTHER APPLICABLE SAFETY REQUIREMENTS INCLUDING THE USE OF SAFETY GLASSES, HARD HATS, AND PROTECTION OF AREA WHEN WORKING OVERHEAD. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR CONSTRUCTION SAFETY AT ALL TIMES.
7. COORDINATE WORK OF ALL DISCIPLINES (STRUCT., ARCH., MECH., ELECT., ETC.) WITH EXISTING CONDITIONS, SPECIAL REQUIREMENTS, CONSTRUCTION SCHEDULE AND OTHER CONTRACTORS PERFORMING WORK AT THE SITE.
8. ALL TEMPORARY SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL DESIGN AND PROVIDE ANY TEMPORARY SHORING, BRACING, ETC., AS NEEDED FOR THE WORK SO AS NOT TO ENDANGER THE STRUCTURAL INTEGRITY OF ANY EXISTING FEATURE.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE DONE TO EXISTING FEATURES AS A RESULT OF THIS WORK. DAMAGED ITEMS SHALL BE REPLACED IN KIND AND AT NO ADDITIONAL COST TO THE OWNER.
10. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LAYOUT PRIOR TO CONSTRUCTION. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS AND ANY DISCREPANCIES NOTED TO THE ATTENTION OF THE ENGINEER REPRESENTATIVE, IMMEDIATELY. SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. INFORMATION NOT SHOWN OR NOT SHOWN MUST BE SPECIFIC AND CLEARLY CONVEYED TO THE OWNER'S REPRESENTATIVE IN WRITTEN FORM AS A CHANGE FOR INCLUSION INTO THESE PLANS.
11. SHOP DRAWINGS: REPRODUCTION OF DESIGN DRAWINGS SHALL NOT BE PERMITTED FOR SHOP DRAWING SUBMISSIONS. THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL REVIEW AND PROVIDE REVIEW STAMP ON SHOP DRAWING SUBMISSIONS PRIOR TO SUBMITTAL TO ARCHITECT/ENGINEER INDICATING UNDERSTANDING AND ACCEPTANCE OF SUBMITTAL AND CONFIRMING CONFORMANCE TO PROJECTS PLANS/SPECIFICATIONS.
12. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS MAY BE NECESSARY.
13. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, PROCESS OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE PERTINENT TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS SHALL BE BORNE BY THE APPROPRIATE CONTRACTOR.

RENOVATION AND EXISTING STRUCTURE NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ETC., NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE STRUCTURE TO THE EXISTING STRUCTURE. THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS NECESSARY FOR PROPER FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL. THE CONTRACTOR SHALL SUPPORT, BRACE AND SECURE EXISTING STRUCTURES AS REQUIRED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF EXISTING STRUCTURES DURING CONSTRUCTION.
2. BEFORE PROCEEDING WITH ANY WORK WITHIN OR ADJACENT TO THE EXISTING STRUCTURE, THE CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS. DURING THE PROCESS OF CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE WHERE THE EXISTING STRUCTURE IS MODIFIED TO ACCOMMODATE NEW CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING STRUCTURE, WHICH ARE TO REMAIN.
3. ALL EXISTING STRUCTURAL ELEMENTS (SLABS, BEAMS, WALLS, COLUMNS, FOUNDATIONS...) SHALL REMAIN INTACT UNLESS SPECIFICALLY NOTED TO BE REMOVED BY THE DEMOLITION DOCUMENTS OR OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS.
4. INFORMATION PROVIDED ON THESE DRAWINGS RELATED TO EXISTING CONDITIONS IS BASED ON AVAILABLE DESIGN DOCUMENTS AND LIMITED FIELD OBSERVATION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY AND AWAIT DIRECTION FROM THE OWNER'S REPRESENTATIVE IF ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE EXISTING CONDITIONS IS DISCOVERED.
5. THIS PROJECT REQUIRES DRILLING INTO EXISTING REINFORCED CONCRETE STRUCTURE. THE CONTRACTOR SHALL NOT RECEIVE ADDITIONAL PAYMENT FOR DIFFICULTIES ENCOUNTERED IN DRILLING DUE TO HARDNESS OF MATERIALS. HITTING OF EXISTING REINFORCING, ETC. ALL COSTS ASSOCIATED WITH RE-DRILLING OF HOLES DUE TO INTERFERENCE WITH EXISTING REINFORCING SHALL BE BORNE BY THE CONTRACTOR. THIS INCLUDES FILLING UNNECESSARY AND UNUSED HOLES WITH EPOXY GROUT. DO NOT CUT REINFORCING STEEL DURING CONCRETE DRILLING OR CORING OPERATIONS. LOCATE REINFORCING USING NON-DESTRUCTIVE TESTING PRIOR TO DRILLING AND CORING OPERATIONS.
6. CORE DRILLS REQUIRED BY MECHANICAL OR ELECTRICAL TRADES BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE DOCUMENTED SHOWING EXACT DIMENSIONS AND LOCATIONS. THE DRAWING SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PROCEEDING WITH THE DRILLING OPERATION.
7. EXISTING CONCRETE SURFACE PREPARATION: INTENTIONALLY ROUGHEN EXISTING CONCRETE SURFACES TO AN AMPLITUDE OF 3/4" WHERE NEW CONCRETE IS BEING PLACED AGAINST THE EXISTING CONCRETE AND CONNECTED BY DRILLING AND EPOXY GROUTING. THE ENTIRE COMMON SURFACE WHERE THE EXISTING CONCRETE ABUTS THE NEW SHALL BE COATED WITH A BONDING AGENT. FOLLOW ALL ADDITIONAL REQUIREMENTS OF SURFACE REPARATION AS REQUIRED BY THE BONDING AGENT MANUFACTURER.

FOUNDATION NOTES:

1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT BY ARM-NY INC. PC, PROJECT NO. 240115-48, AND DATED 10/11/2024. THE CONTRACTOR SHALL THOROUGHLY REVIEW AND UNDERSTAND ALL PERTINENT CONSTRUCTION ASPECTS OF THIS REPORT BEFORE BEGINNING ANY WORK AND SHALL ENSURE ALL APPLICABLE WORK IS DONE IN ACCORDANCE WITH THIS REPORT. IT IS ANTICIPATED THAT UNDOCUMENTED FILLS AT DEPTHS OF 4 TO 10 FEET BELOW CURRENT GRADE WILL BE REQUIRED TO BE REMOVED AND REPLACED WITH STRUCTURAL FILL ACROSS THE ENTIRETY OF THE NEW BUILDING ADDITION FOOTPRINT.
2. DESIGN OF FOOTINGS AND FOUNDATION WALLS IS BASED ON THE FOLLOWING CRITERIA:
   A. MAXIMUM ALLOWABLE BEARING PRESSURE = 4,000 PSF
3. FOOTING ELEVATION SHOWN REPRESENT THE MINIMUM DEPTH TO WHICH FOOTINGS SHALL BE PLACED, BUT SHALL BEAR AT A DEPTH BELOW FINISHED GRADE NO LESS THAN 4' - 4". FOOTINGS SHALL BE LOWERED AS REQUIRED TO OBTAIN SUITABLE BEARING. WHERE FOOTINGS ARE REQUIRED TO BE LOWERED MORE THAN 1 FOOT, NOTIFY THE ENGINEER OF RECORD. ALL UNSUITABLE FOUNDATION MATERIAL SHALL BE REMOVED WITH FOOTINGS RESTING ON STRUCTURAL FILL WITH A MINIMUM BEARING CAPACITY OF 4,000 PSF, UNLESS OTHERWISE INDICATED.
4. A GEOTECHNICAL ENGINEER SHALL OBSERVE THE OPEN EXCAVATION TO DETERMINE THAT THE SOIL TYPE AND CONDITIONS ARE CONSISTENT WITH DESIGN CRITERIA OF THE SOIL REPORT. IF THE SOIL PROPERTIES ARE FOUND TO BE DIFFERENT FROM THIS CRITERIA THE OWNER'S REPRESENTATIVE SHALL BE PROMPTLY NOTIFIED SO THAT THE FOUNDATION DESIGN MAY BE REVIEWED.
5. NO FOUNDATION CONCRETE SHALL BE INSTALLED UNTIL ALL FOUNDATION WORK HAS BEEN COORDINATED WITH UNDERGROUND UTILITIES. FOOTINGS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES. WHERE FOOTINGS ARE REQUIRED TO BE LOWERED MORE THAN 1 FOOT, NOTIFY THE ENGINEER OF RECORD.
6. TO MINIMIZE WEATHERING, ANY FOUNDATION EXCAVATION THAT REMAINS OPEN GREATER THAN (1) DAY SHOULD HAVE A 3" MUD SILL (1,000 PSI CONCRETE FILL CONCRETE) PLACED TO PROTECT THE FOUNDATION BEARING SURFACE FROM DISTURBANCES
7. WHERE ROCK OUTCROPPINGS ARE ENCOUNTERED IN ANY FOOTING EXCAVATION, UNDERCUT TO A DEPTH OF NOT LESS THAN 6 INCHES BELOW ELEVATION OF BOTTOM OF FOOTING AND BACKFILL WITH THOROUGHLY COMPACTED #10 FINES.
8. UNLESS OTHERWISE SHOWN, THE CENTERLINES OF ALL PIERS AND COLUMN FOOTINGS SHALL BE LOCATED ON COLUMN CENTERLINES.

CONCRETE NOTES:

1. COMPLY WITH THE FOLLOWING CODES AND STANDARDS:
   A. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
   B. ACI 305, ACI 306, ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
   C. ACI DETAILING MANUAL (ACI SP-66-04).
   D. ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORM WORK".
   E. CONCRETE REINFORCING STEEL INSTITUTE (CRSI), "MANUAL OF STANDARD PRACTICE".
   F. ACI 304 "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE".
2. MATERIALS:
   A. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED
   B. WELDED WIRE FABRIC (WWF) - ASTM A185, FLAT SHEETS.
   C. PORTLAND CEMENT-ASTM C150.
   D. AGGREGATES-ASTM C33.
   E. AIR ENTRAINING ADMIXTURE-ASTM C260, CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH OTHER REQUIRED ADMIXTURES.
   F. PROHIBITED ADMIXTURES-CALCIUM CHLORIDE THIOCYANATES OR ADMIXTURES CONTAINING MORE THAN 0.1% CHLORIDE IONS ARE NOT PERMITTED.
3. CONTINUOUS REINFORCING IN WALLS AND SLABS MAY BE SPLICED, AS REQUIRED, PROVIDING BARS ARE OF THE LONGEST PRACTICABLE LENGTH AND SPLICES ARE SHOWN ON REINFORCING SHOP DRAWINGS. WHEREVER POSSIBLE, SPLICES SHALL BE STAGGERED. FIELD CUTTING OF REINFORCEMENT WILL NOT BE PERMITTED.
4. UNLESS OTHERWISE SHOWN, BARS AT WALL AND CONTINUOUS FOOTING CORNERS AND INTERSECTIONS SHALL BE DETAILED AS SHOWN ON FIGURE 15 OF ACI SP-66-04. CORNER BARS SHALL BE DETAILED AS SHOWN FOR OUTSIDE LOADED ONLY CORNERS. INTERSECTIONS SHALL BE DETAILED WITHOUT DIAGONAL BARS. ALL END HOOKS SHALL BE STANDARD 90 DEGREE END HOOKS AND CORNER BARS SHALL BE 48 BAR DIAMETERS X 48 BAR DIAMETERS MINIMUM UNLESS NOTED OTHERWISE.
5. PROVIDE DOWELS TO MATCH REINFORCEMENT SIZE AND SPACING INDICATED FOR ALL STRUCTURAL ELEMENTS, UNLESS OTHERWISE INDICATED. DOWELS MUST BE PLACED AND SECURED PRIOR TO CONCRETE PLACEMENT ("WET STICKING" REINFORCING NOT PERMITTED").
6. MAJOR CONSTRUCTION JOINTS ARE SHOWN ON THE DRAWINGS. INTERMEDIATE JOINTS IN WALLS, SLABS, AND FLOOR FRAMING ARE NOT SHOWN. CONSTRUCTION JOINTS MAY BE ADDED, OMITTED OR RELOCATED IF PROPERLY DETAILED ON SHOP DRAWINGS AND APPROVED BY THE OWNER'S REPRESENTATIVE.
7. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF OPENINGS AND SLEEVES IN CONCRETE WALLS AND SUPPORTED FLOORS. SPREAD REINFORCEMENT AT OPENINGS AND SLEEVES UNLESS OTHERWISE SHOWN. DO NOT CUT REINFORCEMENT. SEE TYPICAL REINFORCEMENT DETAILS FOR OPENINGS IN SLABS AND WALLS FOR ADDITIONAL REQUIREMENTS.
8. PLACING OF REINFORCEMENT: PROVIDE CHAIRS, BOLSTERS, ADDITIONAL REINFORCEMENT, AND ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITION SHOWN ON DRAWINGS. SUPPORT OF REINFORCEMENT ON FORM TIES, WOOD, BRICK, BRICKBAT OR OTHER UNACCEPTABLE MATERIAL WILL NOT BE PERMITTED.
9. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS FOR SIZE AND LOCATION OF ALL EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, OPENINGS, ETC. REQUIRED BY OTHER TRADES. RECONCILE THEIR EXACT SIZES AND LOCATIONS BEFORE PROCEEDING WITH THE WORK. ALL ITEMS SHALL BE FURNISHED AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE. SECURE THE APPROVAL OF THE OWNER'S REPRESENTATIVE PRIOR TO PLACING OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS
10. PROVIDE CONTROL JOINTS IN CAST-IN-PLACE CONCRETE SLABS ON GRADE AT 15 FEET O.C. MAX. LOCATE CONTROL JOINTS TO FORM APPROXIMATE SQUARE PANELS WITH THE LENGTH OF ONE SIDE NOT EXCEEDING THE ADJACENT SIDE BY A FACTOR OF 1.5. CONTROL JOINTS MAY BE CONTRACTION JOINTS, CONSTRUCTION JOINTS, OR EXPANSION JOINTS.
11. CONCRETE WORK SHALL BE TEMPORARILY BRACED AGAINST EARTH PRESSURE AND OTHER FORCES UNTIL FLOOR SLABS ARE IN PLACE AND HAVE ATTAINED REQUIRED STRENGTHS.
12. WHERE CONSTRUCTION JOINTS ARE REQUIRED BUT ARE NOT INDICATED ON THE DRAWINGS, THEY SHALL BE LOCATED AT THE MID-SPAN OF BEAMS, SLABS AND WALLS AND SHALL BE SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE. UNLESS NOTED OTHERWISE OR SHOWN ON THE DRAWINGS, AT CONCRETE SLABS ON STEEL DECK, SUPPORTED BY STEEL BEAMS AND GIRDERS, CONSTRUCTION JOINTS SHALL BE PLACED AT MID-SPAN OF BEAMS, SLABS AND WALLS AND SHALL BE SUBJECT TO
13. DEPRESS FLOOR SLABS AS REQUIRED; SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND DEPTH OF DEPRESSED AREAS.
14. CHAMFER EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES 3/4-INCH, UNO.
15. SLABS AND BEAMS OR JOISTS SHALL BE CAST MONOLITHICALLY UNLESS OTHERWISE INDICATED.
16. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING WHEN IT IS SAFE TO REMOVE FORMS AND/OR SHORING. FORMS AND SHORING MUST NOT BE REMOVED UNTIL THE CONCRETE IS STRONG ENOUGH TO CARRY ITS OWN WEIGHT AND ANY ANTICIPATED SUPERIMPOSED LOADS. WHEN FORMS ARE STRIPPED THERE MUST BE NO EXCESSIVE DEFLECTION, DISTORTION, DISCOLORATION, AND NO EVIDENCE OF DAMAGE TO THE CONCRETE.

MASONRY NOTES:

1. MASONRY WORK SHALL CONFORM TO THE LATEST EDITIONS OF ACI 530 AND 530.1.
2. MATERIALS:
   A. CONCRETE MASONRY UNITS: HOLLOW OR SOLID UNITS ASTM C90. ALL UNITS SHALL BE TYPE I, NORMAL WEIGHT, MOISTURE-CONTROLLED CURED. MOISTURE CONTENT SHALL NOT EXCEED 30% OF MAXIMUM ABSORPTION, AND SHRINKAGE SHALL BE LESS THAN 0.35% AS PER ASTM C426.
   B. MORTAR: ASTM C270, TYPE S. NO MASONRY CEMENT WILL BE ALLOWED.
   C. F'_m = 2,000 psi
   D. REINFORCEMENT BARS: ASTM A615 GRADE 60.
   E. JOINT REINFORCEMENT: TRUSS TYPE WITH 0.148 INCH DIAMETER
   F. FINE GROUT: ASTM C476.
3. USE UNIT TEST METHOD, ACCORDING TO ASTM C -140, TO VERIFY MATERIALS PROPERTIES.
4. REINFORCING BARS IN MASONRY SHALL BE FULLY GROUTED FOR THEIR ENTIRE LENGTH AND SHALL BE LAP SPLICED 48 BAR DIAMETERS,UNO. VERTICAL REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.
5. UNLESS OTHERWISE NOTED OR SHOWN, PROVIDE CMU LINTELS OVER OPENINGS IN CMU WALLS IN ACCORDANCE WITH TYPICAL CMU LINTEL SCHEDULE.
6. UNLESS OTHERWISE SHOWN, PROVIDE SOLID MASONRY BLOCK COURSES, CONSISTING OF SOLID BLOCKS OR GROUT FILLED BLOCKS FOR BEARING UNDER STRUCTURAL MEMBERS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
   A. ONE COURSE UNDER OPEN WEB STEEL JOISTS
   B. THREE COURSES UNDER LONGSPAN STEEL JOISTS (2' 0" EACH SIDE OF JOIST)
   C. THREE COURSES UNDER STEEL BEAMS AND COLUMNS (2' 0" EACH SIDE OF MEMBER)
7. ALL EXPOSED MORTAR JOINTS SHALL BE TOOLED.
8. CMU WALLS SHALL RECEIVE TEMPORARY BRACING. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED BY THE ROOF OR FLOOR.
9. PROTECT MASONRY WORK FROM DAMAGE DUE TO OTHER WORK AND THE WEATHER AS RECOMMENDED BY NCMA. ALL UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. SOLID UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS. 3/8" THICK. LAY IN FULL RUNNING BOND UNLESS INDICATED OTHERWISE.
10. PLACE HORIZONTAL REINFORCING ON FULL MORTAR BED AT 16" OC MIN OR AS INDICATED ON DRAWINGS. VERTICAL REINFORCING IN MASONRY WHERE SHOWN SHALL BE PLACED IN GROUT FILLED CORES AND PROPERLY LOCATED AS INDICATED. SPLICES SHALL BE MINIMUM 36 X BAR DIAMETER.
11. USE LOW-LIFT GROUTING TECHNIQUES TO FILL CORES, UNLESS HIGH-LIFT GROUTING (VERTICAL PLACEMENT >4'0") IS APPROVED BY THE OWNER'S REPRESENTATIVE IN WRITING.
12. PROVIDE DOWELS TO MATCH REINFORCEMENT SIZE AND SPACING INDICATED FOR ALL STRUCTURAL ELEMENTS, UNLESS OTHERWISE INDICTED. DOWELS MUST BE PLACED AND SECURED PRIOR TO CONCRETE PLACEMENT ("WET-STICKING" REINFORCING NOT PERMITTED).

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL WORK INCLUDES ALL STRUCTURAL STEEL TO BE FURNISHED AND ERECTED, BEAMS, COLUMNS, CHANNELS, ANGLES, JOISTS, LINTELS, BEARING PLATES, ETC., AS INDICATED ON THE DRAWINGS.
2. COMPLY WITH THE FOLLOWING CODES AND STANDARDS:
   A. AISC STEEL CONSTRUCTION MANUAL, LRFD, 15TH EDITION
   B. AMERICAN WELDING SOCIETY (AWS) D1.1 "STRUCTURAL WELDING CODE STEEL", 2015.
   C. CURRENT OSHA ERECTION AND FABRICATION REQUIREMENTS.
3. MATERIALS:
   A. WIDE FLANGE BEAMS, GIRDERS AND COLUMNS: ASTM A992
   B. ANGLES, BARS AND PLATES: ASTM A36
   C. HOLLOW STRUCTURAL SECTIONS "HSS": ASTM A500, GRADE C
   D. PIPE: SCHEDULE 40 CONFORMING TO ASTM A53, GRADE B, U.N.O.
   E. HIGH STRENGTH BOLTS: ASTM A 325
   F. WELDS: E70XX ELECTRODES
4. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED.
5. ALL STRUCTURAL STEEL SHOP CONNECTIONS SHALL BE WELDED AND ALL FIELD CONNECTIONS SHALL BE HIGH-STRENGTH BOLTED UNLESS SHOWN OTHERWISE.
6. ALL BOLTS SHALL BE TIGHTENED TO THE SNUG-TIGHT CONDITION UNLESS NOTED OTHERWISE. SLIP CRITICAL BOLTS SHALL BE USED AT ALL MOMENT CONNECTIONS.
7. BOLTS SHALL BE 3/4 INCH DIAMETER, TYPE A325N, UNLESS OTHERWISE INDICATED. FOR DELEGATED DESIGN CONNECTIONS, BOLT SIZE, GRADE AND TYPE SHALL BE AS SPECIFIED BY THE DELEGATED CONNECTIONS DESIGN ENGINEER (ASTM A325N, 3/4 INCH DIAMETER, MINIMUM).
8. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE. SWAGED ANCHOR BOLTS AND ANCHOR BOLTS WITH HOOKED END ANCHORAGE ARE NOT ALLOWED.
9. IN ACCORDANCE WITH AISC 303-10, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES (STEEL CONNECTION DESIGN - OPTION 3), SHEAR CONNECTIONS FOR SIMPLY SUPPORTED BEAMS SHALL BE DESIGNED FOR THE LRFD REACTIONS INDICATED ON THE FRAMING PLANS IN ACCORDANCE WITH AISC REQUIREMENTS. WHERE NONE ARE INDICATED, BEAMS SHALL BE DESIGNED FOR AN END REACTION EQUAL TO NO LESS THAN 15 KIPS. DETERMINATION OF BOLT SIZE, TYPE, GRADE AND CONNECTING MATERIAL THICKNESS AND SIZE IS THE RESPONSIBILITY OF THE DELEGATED ENGINEER. CONNECTION DESIGN SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK (WHO IS CONTRACTED AND WORKING FOR THE FABRICATOR) AND SUBMITTED FOR REVIEW WITH THE STRUCTURAL STEEL SHOP DRAWINGS.
10. BOLTED MOMENT CONNECTIONS SHALL BE SLIP-CRITICAL CONNECTIONS. OTHER CONNECTIONS SHALL BE BEARING CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANES.
11. WELDS INDICATED "CJP" SHALL BE COMPLETE JOINT PENETRATION GROOVE WELDS. FABRICATOR SHALL PRODUCE COMPLETE JOINT PENETRATION GROOVE WELDS WHICH CONFORM TO ALL AWS D1.1 QUALIFIED WELD REQUIREMENTS AND WHICH ARE APPLICABLE TO THE SPECIFIC CONDITIONS SHOWN.
12. WELDS INDICATED "PJP" SHALL BE PARTIAL JOINT PENETRATION GROOVE WELDS. FABRICATOR SHALL PRODUCE PARTIAL JOINT PENETRATION GROOVE WELDS WHICH CONFORM TO ALL AWS D1.1 QUALIFIED WELD REQUIREMENTS AND WHICH ARE APPLICABLE TO THE SPECIFIC CONDITIONS SHOWN.
13. WHERE THE WORK OF OTHER TRADES REQUIRES CUTS, HOLES, ETC., IN STRUCTURAL STEEL MEMBERS, CUTS, HOLES, ETC., SHALL BE MADE IN THE SHOP AND SHALL BE SHOWN ON THE SHOP DRAWINGS. MAKING HOLES OR CUTS IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED WITHOUT SPECIFIC APPROVAL OF THE OWNER'S REPRESENTATIVE.
14. COMPOSITE SLABS SHALL BE PLACED TO A MINIMUM OF THE THICKNESS INDICATED AND SHALL BE SCREEDED LEVEL.
15. SHEAR CONNECTORS FOR COMPOSITE BEAMS SHALL BE 3/4 INCH DIAMETER x 4 INCH LONG STUDS OF THE QUANTITY INDICATED ON THE FLOOR PLAN. DISTRIBUTE STUDS UNIFORMLY ALONG BEAMS AND GIRDERS WHERE QUANTITY IS SHOWN AS A SINGLE NUMBER. WHERE QUANTITY IS SHOWN AS MULTIPLE CALLOUTS ALONG A GIRDER DISTRIBUTE STUDS UNIFORMLY ALONG EACH SEGMENT. WHERE THE FLUTE OF THE DECK IS PERPENDICULAR TO THE BEAM, PROVIDE NO MORE THAN ONE STUD IN A FLUTE PER ROW (ALONG THE LENGTH OF THE BEAM). WHERE ONE ROW OF STUDS WILL NOT ACCOMMODATE THE REQUIRED QUANTITY OF STUDS, DISTRIBUTE HALF OF THE REMAINDER TO EACH END OF THE BEAM USING TWO ROWS OF STUDS WITH A MINIMUM CENTER-TO-CENTER SPACING BETWEEN ROWS OF 3 INCHES. WHERE THE FLUTE OF THE DECK IS PARALLEL TO THE GIRDERS PROVIDE A MINIMUM LONGITUDINAL SPACING OF 4 1/2 INCHES BETWEEN THE STUDS
16. WHERE PARTITIONS OF ANY MATERIAL ABUT STEEL COLUMN ENCASEMENTS, INCREASE THE DISTANCE FROM STEEL COLUMN TO FACE OF ENCASEMENT AS REQUIRED TO PROVIDE AN UNBROKEN SURFACE FOR THE WALL FINISH
17. THE LATERAL LOAD RESISTING SYSTEM INCLUDES STRUCTURAL STEEL, NON-STRUCTURAL STEEL ELEMENTS, AND THE DIAPHRAGM AS INDICATED BELOW. ALL ELEMENTS OF THE LATERAL LOAD RESISTING SYSTEM AND DIAPHRAGM ARE REQUIRED TO BE COMPLETE AND INSTALLED AND DETAILED IN THE STRUCTURAL CONTRACT DOCUMENTS TO PROVIDE THE LATERAL STRENGTH AND STABILITY OF THE STEEL STRUCTURE. THE STRUCTURE SHALL BE CONSIDERED UNSTABLE UNTIL THESE SYSTEMS AND ELEMENTS ARE COMPLETE.
18. THE LATERAL LOAD RESISTING SYSTEM FOR THE STEEL STRUCTURE INCLUDES THE FOLLOWING ELEMENTS AS INDICATED AND DETAILED IN THE STRUCTURAL CONTRACT DOCUMENTS:
   A. BRACED FRAMES
   B. MOMENT FRAMES
   C. CONNECTIONS, BASE PLATES, ANCHOR BOLTS, AND GROUT
19. THE LATERAL LOAD RESISTING DIAPHRAGM FOR THE STEEL STRUCTURE INCLUDES THE FOLLOWING ELEMENTS AS INDICATED AND DETAILED IN THE STRUCTURAL CONTRACT DOCUMENTS:
   A. STEEL FLOOR DECK WITH CONCRETE AT 28-DAY STRENGTH
   B. STEEL ROOF DECK
20. STABILITY BRACING: THE STABILITY OF STRUCTURAL STEEL ELEMENTS INCLUDING INDIVIDUAL HOT-ROLLED STEEL SHAPES AND FABRICATED TRUSSES IS PROVIDED BY THE FOLLOWING ELEMENTS AS INDICATED AND DETAILED IN THE STRUCTURAL CONTRACT DOCUMENTS. THESE ELEMENTS SHALL BE COMPLETE AS SHOWN IN THE STRUCTURAL CONTRACT DOCUMENTS BEFORE ANY TEMPORARY MEANS AND METHODS REQUIRED FOR ERECTION ARE REMOVED.
   A. STEEL FLOOR DECK WITH CONCRETE AT 28-DAY STRENGTH
   B. STEEL ROOF DECK

STEEL JOIST AND JOIST GIRDER NOTES:

1. COMPLY WITH THE FOLLOWING CODES AND STANDARDS:
   A. SJI-JG-2010 - STANDARD SPECIFICATION FOR JOIST GIRDERS
   B. SJI-COSP-2010 - CODE OF STANDARD PRACTICE FOR STEEL JOISTS AND JOIST GIRDERS
   C. TECHNICAL DIGEST NO. 8 (2008) - WELDING OF OPEN WEB STEEL JOISTS AND JOIST GIRDERS
   D. TECHNICAL DIGEST NO. 9 (2008) - HANDLING AND ERECTION OF STEEL JOISTS AND JOIST GIRDERS
   E. TECHNICAL DIGEST NO. 11 (2008) - DESIGN OF LATERAL LOAD RESISTING FRAMES USING STEEL JOISTS AND JOIST GIRDERS
   F. JOIST/JOIST GIRDERS CONSTRUCTED WITH COLD-FORMED STEEL: AISI S100-2007 - NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
2. MATERIALS:
   A. CARBON STRUCTURAL STEEL - ASTM A36
   B. COLD-FORMED WELDED AND SEAMLESS CARBON STEEL STRUCTURAL TUBING IN ROUNDS AND SHAPES - ASTM A500
   C. WELDS: E70XX ELECTRODES
3. JOISTS SHALL RECEIVE STANDARD SHOP PAINT. DO NOT PRIME PAINT STEEL TO RECEIVE SPRAY-APPLIED FIREPROOFING.
4. JOIST DESIGN MAY BE PERFORMED USING EITHER ASD OR LRFD DESIGN. JOIST LOADS ARE UNFACTORED (SEE JOIST LOADING DIAGRAMS).
5. JOIST DEFLECTION DUE TO DESIGN LIVE LOAD SHALL NOT EXCEED THE FOLLOWING:
   A. ROOFS: 1/240 OF SPAN
6. STEEL JOIST SPACING SHALL NOT EXCEED SPACING INDICATED ON DRAWINGS AND PLACEMENT OF JOISTS SHALL BE CAREFULLY COORDINATED WITH PARTITIONS AND WORK OF OTHER TRADES TO AVOID INTERFERENCES.
7. STEEL JOISTS, AS DESIGNED, DO NOT ACCOUNT FOR ROOF SLOPE. JOIST MFR TO VERIFY SIZE INDICATED IS ADEQUATE BASED ON ROOF SLOPE. ROOF LIVE LOAD AS INDICATED.
8. STEEL JOISTS SHALL BE DESIGNED FOR AN ULTIMATE WIND NET UPLIFT PRESSURE OF 15 PSF
9. CONCENTRATED LOADS IN EXCESS OF 100 POUNDS APPLIED TO JOISTS SHALL BE APPLIED AT PANEL POINTS, UNLESS AN ADDED WEB MEMBER IS PROVIDED FROM POINT OF APPLICATION OF LOAD ON CHORD TO THE NEAREST PANEL POINT ON OPPOSITE CHORD.
10. PROVIDE JOIST BRIDGING IN ACCORDANCE WITH SJI SPECIFICATIONS. OMIT JOIST BRIDGING WHERE REQUIRED TO ALLOW INSTALLATION OF WORK OF OTHER TRADES. PROVIDE DIAGONAL BRIDGING IN EACH ADJACENT BAY IN LINE WITH OMITTED BRIDGING. ALL BRI

STRUCTURAL DESIGN CRITERIA

		DESIGN CRITERIA
BUILDING DATA:		
LOCATION		9 OGDEN ST, BINGHAMTON, NY 13901
BUILDING OCCUPANCY RISK CATEGORY		III
APPLICABLE BUILDING CODE		2020 BUILDING CODE OF NEW YORK STATE (IBC 2018)
GEOTECHNICAL INFORMATION:		
ALLOWABLE BEARING PRESSURE		4,000 PSF
FLOOR DEAD LOADING:		
SUPERIMPOSED FLOOR	DL1	15 PSF
ROOF DEAD LOADING:		
ROOF	DLr	23 PSF
FLOOR LIVE LOADING:		
CLASSROOMS	LL1	40 PSF
CORRIDORS ABOVE 1ST FLOOR	LL2	80 PSF
RESTROOMS	LL3	60 PSF
LOBBIES, STAIRS, 1ST FLOOR CORRIDORS	LL5	100 PSF
STORAGE (LIGHT), MEP ROOMS	LL6	125 PSF
OFFICES	LL4	50 PSF
ROOF LIVE LOADING:		
ROOF	Llr	20 PSF
SNOW LOADING:		
SNOW IMPORTANCE FACTOR	Is	1.1
GROUND SNOW LOAD	Pg	40.0 PSF
SNOW EXPOSURE FACTOR	Ce	1.0
ROOF THERMAL FACTOR	Ct	1.0
FLAT ROOF SNOW LOAD	Pf	30.8 PSF
DRIFTING SNOW		AS REQUIRED PER ASCE 7-16
DRIFT SURCHARGE LOAD	Pd	SEE SNOW DRIFT PLAN
DRIFT WIDTH	w	SEE SNOW DRIFT PLAN
WIND LOADING (MAIN WIND FORCE RESISTING SYSTEM):		
ANALYSIS PROCEDURE		DIRECTIONAL PROCEDURE
ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)	Vult	118 mph
NOMINAL DESIGN WIND SPEED (3-SECOND GUST)	Vasd	91.4 mph
EXPOSURE CATEGORY		B
ENCLOSURE CLASSIFICATION		ENCLOSED
INTERNAL PRESSURE COEFFICIENT	GCpi	+0.18/-0.18
WIND LOADING (COMPONENTS AND CLADDING):		
COMPONENTS AND CLADDING WIND PRESSURE:		SEE COMPONENTS AND CLADDING TABLE
SEISMIC LOADING:		
MAPPED SHORT PERIOD SPECTRAL RESPONSE ACCELERATION	Ss	0.116g
MAPPED 1-SEC PERIOD SPECTRAL RESPONSE ACCELERATION	S1	0.045g
SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION	Sds	0.124g
1-SEC PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION	Sd1	0.073g
SOIL SITE CLASS		D
SEISMIC DESIGN CATEGORY		B
SEISMIC FORCE RESISTING SYSTEM		STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
RESPONSE MODIFICATION FACTOR	R	3.0
DEFLECTION AMPLIFICATION FACTOR	Cd	3.0
SEISMIC RESPONSE COEFFICIENT	Cs	0.052
ANALYSIS PROCEDURE		EQUIVALENT LATERAL FORCE
DESIGN BASE SHEAR	V	140 kips

CONCRETE STRENGTH AND MATERIAL SCHEDULE

STRUCTURAL ELEMENT	*MIN COMPRESSIVE STRENGTH AT 28 DAYS (PSI)*	*MAX WATER/CEMENT RATIO*	*AIR CONTENT (%)*	COURSE AGGREGATE	SPECIFIED WEIGHT
FOOTINGS, INTERIOR SOG	4,000	0.50	N/A	-	-
FOUNDATION WALLS, PIERS, EXTERIOR SOG	4,500	0.45	6 +/- 1.5	-	-
LIGHTWEIGHT CONCRETE SLAB-ON-DECK	4,000	0.50	-	ASTM C330	115 PCF*

NOTES:

1. PREPARE DESIGN MIXES FOR EACH TYPE, AND STRENGTH OF CONCRETE BY EITHER LABORATORY TRIAL BATCH OR FIELD EXPERIENCE METHODS AS SPECIFIED IN ACI 318.
2. CONCRETE SHALL BE READY MIXED PER ASTM C94, JOBSITE MIXING SHALL NOT BE PERMITTED.
3. MAXIMUM NOMINAL AGGREGATE SIZE IS 3/4".
4. SEE REINFORCED CONCRETE NOTES ON S001 FOR ADDITIONAL REQUIREMENTS.
5. ENSURE ENTRAPPED AIR IN SLAB CONCRETE TO BE TROWEL FINISHED DOES NOT EXCEED 3%.
6. DO NOT HARD-TROWEL SLABS THAT ARE TO BE AIR-ENTRAINED. COORDINATE SLAB FINISH WITH ARCHITECTURAL AND/OR OWNER REQUIREMENTS. CARE SHALL BE TAKEN FOR FINISHING SLABS WITH AIR-ENTRAINMENT.
7. *SPECIFIED WEIGHT IS MAXIMUM DRY UNIT WEIGHT TO MEET UL FIRE RATING ASSEMBLY REQUIREMENTS (D919). 125 PCF IS MAXIMUM WET UNIT WEIGHT DURING PLACEMENT.

CONCRETE REINF SPLICE & DEVELOPMENT LENGTHS SCHEDULE

	BAR SIZE	LAP SPLICE LENGTHS (IN.)					DEVELOPMENT LENGTHS (IN.)		
		TENSION LAP LENGTH							
		TOP BARS		OTHER		COMP.	TENSION	COMP.	HOOKED
	CLASS	A	B	A	B				
f'c = 4,000 psi	#3	19	24	15	19	12	SAME AS CLASS A TENSION LAP SPLICE	8	8
	#4	25	33	19	25	15		10	10
	#5	31	41	24	31	19		12	12
	#6	37	49	29	37	23		15	15
	#7	54	71	42	54	27		17	17
	#8	62	81	48	62	30		19	19
	#9	70	91	54	70	34		22	22
	#10	79	102	61	79	39		25	25
	#11	87	113	67	87	43		27	27

	BAR SIZE	LAP SPLICE LENGTHS (IN.)					DEVELOPMENT LENGTHS (IN.)		
		TENSION LAP LENGTH							
		TOP BARS		OTHER		COMP.	TENSION	COMP.	HOOKED
	CLASS	A	B	A	B				
f'c = 4,500 psi	#3	18	23	14	18	12	SAME AS CLASS A TENSION LAP SPLICE	8	7
	#4	24	31	18	24	15		9	9
	#5	30	38	23	30	19		12	12
	#6	35	46	27	35	23		14	14
	#7	51	67	40	51	27		16	16
	#8	59	76	45	59	30		18	18
	#9	66	86	51	66	34		21	21
	#10	74	96	57	74	39		23	23
	#11	82	107	64	82	43		26	26

NOTES:

1. TOP BARS ARE HORIZONTAL BARS, PLACED SO THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS PLACED BELOW THE BAR.
2. ALL LAP SPLICES SHALL BE CLASS "B" UNLESS OTHERWISE NOTED.
3. LENGTHS IN THE TABLE ARE FOR UNCOATED OR ZINC-COATED (GALVANIZED) BARS.
4. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2Db AND CLEAR COVER NOT LESS THAN Db.
5. VALUES IN TABLE ARE FOR NORMAL WEIGHT CONCRETE. FOR LIGHTWEIGHT CONCRETE, DIVIDE VALUES BY λ = 0.75.
6. SPACING REQUIREMENTS AND END ANCHORAGE SHALL BE SPACED PER THE REQUIREMENTS OF ACI-318.

REINFORCED CONCRETE COVER SCHEDULE

STRUCTURAL ELEMENT		*MIN COVER (IN)*
CAST AGAINST EARTH		3"
EXPOSED TO EARTH OR WEATHER	#5 BARS AND SMALLER, WWF	1-1/2"
	#6 BARS AND LARGER	2"
NOT EXPOSED TO EARTH OR WEATHER	SLABS & WALLS: #11 BARS AND SMALLER, WWF	3/4"
	SLABS & WALLS: #14 BARS AND LARGER	1-1/2"
	BEAMS AND COLUMNS	1-1/2"

FOOTING SCHEDULE

MARK	FOOTING DIMENSIONS			BOTTOM REINFORCING		TOP REINFORCING	REMARKS
	LENGTH	WIDTH	DEPTH	LONGITUDINAL	TRANSVERSE		
F3	3' - 0"	3' - 0"	1' - 0"	(6) #4 BARS	(6) #4 BARS	-	-
F4	4' - 0"	4' - 0"	1' - 0"	(5) #6 BARS	(5) #6 BARS	-	-
F5	5' - 0"	5' - 0"	1' - 0"	(6) #6 BARS	(6) #6 BARS	-	-
F6	6' - 0"	6' - 0"	1' - 6"	(7) #6 BARS	(7) #6 BARS	(7) #6 BARS, EW	-
F7	7' - 0"	7' - 0"	1' - 6"	(8) #6 BARS	(8) #6 BARS	(8) #6 BARS, EW	
F10	10' - 0"	10' - 0"	1' - 6"	(11) #8 BARS	(11) #8 BARS	(11) #8 BARS, EW	
F13	13' - 0"	13' - 0"	2' - 6"	(11) #8 BARS	(11) #8 BARS	(11) #8 BARS, EW	
F23.1	23' - 0"	11' - 0"	1' - 6"	#6 BARS AT 12" OC	#6 BARS AT 12" OC	#8 BARS AT 12" OC, EW	

PIER SCHEDULE

TYPE	PIER DIMENSIONS		PIER REINFORCING		REMARKS
	DEPTH	WIDTH	VERTICAL	TIES	
P20	1' - 8"	1' - 8"	(8) #5 BARS	#4 TIES @ 12" OC, TOP (2) AT 3" OC	SEE DETAILS
P36	3' - 0"	2' - 0"	(12) #6 BARS	#4 TIES @ 12" OC, TOP (2) AT 3" OC	SEE DETAILS
P42	3' - 6"	2' - 6"	(14) #7 BARS	#4 TIES @ 12" OC, TOP (2) AT 3" OC	SEE DETAILS

WALL FOOTING SCHEDULE

MARK	FOOTING DIMENSIONS		FOOTING REINFORCING		REMARKS
	WIDTH	DEPTH	LONGITUDINAL	TRANSVERSE	
WF24	2' - 0"	1' - 0"	(3) #5 BARS	#5 BARS @ 12" OC	-
WF36	3' - 0"	1' - 0"	(4) #5 BARS	#5 BARS @ 12" OC	-

CONCRETE WALL SCHEDULE

MARK	TYPE	THICKNESS	WALL REINFORCING		REMARKS
			HORIZONTAL	VERTICAL	
CW8	CONCRETE FOUNDATION WALL	8"	#5 BARS @ 12" OC	#5 BARS @ 12" OC	-
CW9	CONCRETE FOUNDATION WALL	9"	#5 BARS @ 12" OC	#5 BARS @ 12" OC	-
CW15	CONCRETE FOUNDATION WALL	1' - 3"	#5 BARS @ 12" OC, EF	#5 BARS @ 12" OC, EF	-
CW16	CONCRETE FOUNDATION WALL	1' - 4"	#5 BARS @ 12" OC, EF	#5 BARS @ 12" OC, EF	-

MASONRY WALL SCHEDULE

MARK	TYPE	THICKNESS	WALL REINFORCING			REMARKS
			HORIZONTAL	VERTICAL	BOND BEAM REINF AND SPACING	
MW8	EXTERIOR / SHAFT MASONRY WALL	7 5/8"	9 GA LADDER TYPE REINF AT 16" OC	#5 BARS @ 32" OC	(2) #5 BARS @ 10' - 0" OC, MAX	SEE SECTIONS FOR ADDITIONAL BOND BEAM LOCATIONS
MW8F	2 HR MASONRY FIRE WALL	7 5/8"	9 GA LADDER TYPE REINF AT 16" OC	#5 BARS @ 32" OC	(2) #5 BARS @ 10' - 0" OC, MAX	SEE SECTIONS FOR ADDITIONAL BOND BEAM LOCATIONS

SLAB-ON-GRADE SCHEDULE

MARK	TYPE	THICKNESS	SLAB REINFORCING	REMARKS
SOG1	INTERIOR SLAB-ON-GRADE	5"	6x6 W2.9xW2.9 WWF	-
SOG2	EXTERIOR CHILLER PAD	8"	#5 BARS AT 18" OC	-

ELEVATED FLOOR SLAB SCHEDULE

MARK	TYPE	GAUGE	SLAB REINFORCEMENT	ATTACHMENT PATTERN		REMARKS
				SUPPORT PATTERN	SIDELAP PATTERN	
FD1	3 1/2" LW CONCRETE ON 2" (2VLI-36) COMPOSITE METAL DECK (5 1/2" TOTAL THICKNESS)	20	#4 BARS @ 12" OC EW	5/8" DIA PUDDLE WELDS @ 36/4 PATTERN	#10 SCREWS @ 12" OC	G60 FINISH

ROOF DECK SCHEDULE

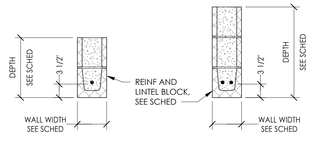
MARK	TYPE	GAUGE	ATTACHMENT PATTERN		REMARKS
			SUPPORT PATTERN	SIDELAP PATTERN	
RD1	1.5B-36 GRADE 50 METAL DECK	20	5/8" DIA PUDDLE WELDS @ 36/5 PATTERN	#12 SCREWS @ 12" OC	G90 FINISH

STRUCTURAL MASONRY LINTEL SCHEDULE

MARK	MASONRY DIMENSIONS		REINFORCEMENT	LAYOUT TYPE	REMARKS
	WALL WIDTH	LINTEL DEPTH			
L1	8"	16"	(2) #5 BARS	TYPE B	

NOTES:

1. THIS SCHEDULE IS FOR OPENINGS IN STRUCTURAL MASONRY WALLS. SEE PLANS AND SECTIONS FOR MARKED LOCATIONS.
2. FOR WALLS NOT SHOWN ON STRUCTURAL DRAWINGS USE NON-STRUCTURAL LINTEL SCHEDULES.
3. LINTELS SHALL BE SHORED AND GROUTED. THE SHORING SHALL REMAIN IN PLACE FOR 14 DAYS, OR UNTIL THE GROUT HAS ATTAINED IT'S FULL COMPRESSIVE STRENGTH, WHICHEVER IS LONGER.
4. EXTEND GROUTED LINTEL A MINIMUM OF 2' - 0" BUT NO LESS THAN 40 BAR DIAMETERS BEYOND EACH SIDE OF OPENING. EXTEND REINFORCEMENT THROUGH CONTROL JOINTS OR AROUND CORNERS AS REQUIRED. SEE TYPICAL MASONRY OPENING DETAILS.
5. USE ONLY LINTEL BLOCKS FOR BOTTOM COURSE OF LINTEL BEAMS, UNLESS NOTED OTHERWISE.
6. CONTACT ENGINEER OF RECORD FOR OPENING SIZES LARGER THAN SHOWN IN SCHEDULE.



STRUCTURAL ABBREVIATION LEGEND

AB	ANCHOR BOLT
ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AHR	ANCHOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
APPROX	APPROXIMATELY
ARCH	ARCHITECT/ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
B/	BOTTOM OF
BD	BOARD
BFE	BASE FLOOD ELEVATION
BLKG	BLOCKING
BM	BEAMS
BN	BOUNDARY NAILING
BO	BOTTOM OF
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
C&C	COMPONENTS AND CLADDING
C/C	CENTER TO CENTER
CFMF	COLD FORMED METAL FRAMING
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
CNJ	CONSTRUCTION JOINT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECT(ED)(ION)
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CTR	CENT(ER)(ERED)(TRAL)
DEG	DEGREE(S)
DEMO	DEMO(LISH)(LITION)
DFE	DESIGN FLOOD ELEVATION
DIA	DIAMETER
DIAG	DIAGONAL
DIF	DIFFEREN(CE)(TIAL)
DIM	DIMENSION
DIV	DIVI(DE)(DED)(DER)(SION)
DL	DEAD LOAD
DN	DOWN
DTL	DETAIL
DWG(S)	DRAWING(S)
DWL	DOWEL(REBAR)
(E)	EXISTING
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EMBED	EMBED(DED) (MENT)
ENG	ENGINEER
EOD	EDGE OF DECK
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
EW	EACH WAY
EXIST	EXISTING
EXP	EXPAN(D)(SION)
EXT	EXTERIOR
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FIN	FINISHED
FNDN	FOUNDATION
FP	FIREPROOF(ING)
FRMG	FRAMING
FRT	FIRE RETARDENT
FS	FAR SIDE
FS	FOOTING STEP
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR/ CONSRTUCTION MANAGER
GWB	GYPSUM WALL BOARD
HD	HEAVY DUTY
HDG	HOT-DIPPED GALVANIZED
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HIGH STRENGTH
HSS	HOLLOW STRUCTURAL SECTION (STRUCTURAL SHAPE)
HT	HEIGHT
IF	INSIDE FACE
INFO	INFORMATION
INSUL	INSULATION
INTMD	INTERMEDIATE

STRUCTURAL ABBREVIATION LEGEND

JBE	JOIST BEARING ELEVATION
JT	JOINT
K	KIP (1000 POUNDS)
KLF	KIPS PER LINEAR FOOT
KSI	KIPS PER SQUARE INCH
LB/LBS	POUNDS
LF	LINEAR FOOT,FEET
LG	LONG
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION(S)
LP	LOW POINT
LVL	LEVEL
LW	LIGHTWEIGHT
MANUF	MANUFACTURER
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
(N)	NEW
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER/DIMENSION
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPN'G	OPENING(S)
OPP	OPPOSITE
P	PIER (SEE SCHEDULE)
PAF	POWDER ACTUATED FASTENER
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PEMB	PRE-ENGINEERED METAL BUILDING
PERF	PERFORATE(D)
PERIM	PERIMETER
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PREFAB	PREFABRICATED
PREFIN	PREFINISH(ED)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST TENSION(FD)(ING)
QTY	QUANTITY
R	RADIUS,RADII
RC	REINFORCED CONCRETE
RD	ROOF DRAIN
REINF	REINFORCING, REINFORCEMENT
REQ'D	REQUIRE(D)
REV	REVIS(E)(ED)(ION)
RTU	ROOF TOP UNITS
SCHED	SCHEDULE
SDI	STEEL DECK INSTITUTE
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SL	SNOW LOAD
SOG	SLAB ON GRADE
SPA	SPACE OR SPACING
SQ	SQUARE
SQ(FT)	SQUARE FOOT/FEET
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTUR(E)(AL)
T&B	TOP&BOTTOM
T/	TOP OF
TBE	TOP OF BEAM ELEVATION
TDE	TOP OF DECK ELEVATION
TEMP	TEMPORARY
TFE	TOP OF FOOTING ELEVATION
THRD	THREAD(ED)
TJE	TOP OF JOIST ELEVATION
TLE	TOP OF LEDGE ELEVATION
TME	TOP OF MASONRY ELEVATION
TO	TOP OF
TOS	TOP OF STEEL
TPG	TOPPING
TRTD	TREATED
TS	THICKENED SLAB
TSE	TOP OF SLAB ELEVATION
TWE	TOP OF WALL ELEVATION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WF	WIDE FLANGE
WGHT	WEIGHT
WHS	WELDED HEADED STUD
WP	WORK POINT
WT	STRUCTURAL TEE(STRUCT SHAPE)
WWR	WELDED WIRE REINFORCEMENT

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Project Title

BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT



Expiration Date: 03/31/2028
Certificate of Authorization: 021475

NO.	DATE	DESCRIPTION

Drawn By:	SRR
Checked By:	LCA
Proj. #:	03-02-00-01-0-010-016
CSArch Proj. #:	215-2402
Construction Documents:	03/12/2026

Sheet Title

DESIGN CRITERIA AND SCHEDULES

Sheet No.

TR
S002

CONSTRUCTION DOCUMENTS

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Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt

COLUMN SCHEDULE

TOS HIGH ROOF																																TOS HIGH ROOF
27' - 8" TOS LIBRARY ROOF																																27' - 8" TOS LIBRARY ROOF
20' - 11 1/2" TOS 2ND FLR/LOW ROOF																																20' - 11 1/2" TOS 2ND FLR/LOW ROOF
14' - 2 1/2" TO SOG	HSS6X6X3/8 (GALV)	HSS6X6X3/8 (GALV)	HSS6X6X3/8 (GALV)	HSS5X5X3/8 (GALV)	HSS5X5X3/8	HSS5X5X3/8 (GALV)	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS6X6X5/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	14' - 2 1/2" TO SOG
0"																																0"
BASE PLATE TYPE	BP2	BP2	BP2	BP1	BP1	BP1	BP1	BP1	BP1	BP2	BP2	BP2	BP2	BP2	BP3	BP3	BP2	BP2	BP2	BP2	BP4	BP2	BP2	BP2	BP4	BP2	BP2	BP2	BP2	BP5	BP4	BP2	BP2
BASE PLATE THICKNESS	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	3/4"	3/4"	1"	1 1/4"	1"	3/4"	3/4"	1 1/4"	1"	3/4"	3/4"	1"	1 1/4"	1"	1"	1"
Column Locations	N.1'-9.1'	N.1'-9.2'	N.1'-9.3'	R.1'-0.5'	R.1'-1'	R.3'-0.5'	R.5'-1.1'	R.5'-1.5'[-1' - 9"]	W.5'-14'	A'-5'	A'-6'	A'-7'	B'-7'	B'-9'	C'-5'	C'-6'	D'-8'	D'-10'	E'-5'	E'-6'	F'-6'	F'-8'	F'-10'	G'-5'	G'-6'	H'-8'	H'-10'	J'-5'	J'-6'	K'-7'	K'-9'	L'-5'	L'-6'

INCLUDED IN ALTERNATE

COLUMN SCHEDULE

TOS HIGH ROOF																																TOS HIGH ROOF
27' - 8" TOS LIBRARY ROOF																																27' - 8" TOS LIBRARY ROOF
20' - 11 1/2" TOS 2ND FLR/LOW ROOF																																20' - 11 1/2" TOS 2ND FLR/LOW ROOF
14' - 2 1/2" TO SOG	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8 (GALV)	HSS6X6X3/8 (GALV)	HSS6X6X3/8 (GALV)	HSS6X6X3/8 (GALV)	HSS6X6X3/8 (GALV)	HSS6X6X3/8 (GALV)	HSS5X5X3/8	HSS5X5X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	14' - 2 1/2" TO SOG
0"																																0"
BASE PLATE TYPE	BP1	BP2	BP1	BP1	BP4	BP2	BP2	BP2	BP2	BP2	BP2	BP2	BP2	BP2a	BP2a	BP1	BP1	BP1	BP1	BP2	BP2	BP2	BP2	BP2	BP1	BP1	BP2	BP2	BP1	BP1	BP1	BP1	BP1	BP1
BASE PLATE THICKNESS	3/4"	3/4"	3/4"	3/4"	1"	3/4"	1"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Column Locations	M'-1'	M'-2'	M'-3'	M'-4'	N'-7'	N'-9'	P'-5'	P'-6'[-7' - 2 1/2"]	P'[1' - 10"]-6'	Q'-7'[1' - 5"]	Q'-23'	R'-2'	R'-2.5'	R'-3'	R'-4'	S'-2'	S'-3'	S'-4'	S'-5'	S'-9'	S'-9.1'	S'-9.2'	S'-9.4'	S'-16'	S'-20'	S'-21'	S'-23'	T'-16'	T'-20'	U'-21'	U'-23'	V'-22'	V'-24'

INCLUDED IN ALTERNATE

COLUMN SCHEDULE

TOS HIGH ROOF																																TOS HIGH ROOF
27' - 8" TOS LIBRARY ROOF																																27' - 8" TOS LIBRARY ROOF
20' - 11 1/2" TOS 2ND FLR/LOW ROOF																																20' - 11 1/2" TOS 2ND FLR/LOW ROOF
14' - 2 1/2" TO SOG	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS6X6X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS6X6X5/8	HSS6X6X5/8	HSS6X6X5/8	HSS5X5X3/8	HSS5X5X3/8	HSS6X6X5/8	HSS6X6X5/8	HSS6X6X5/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	14' - 2 1/2" TO SOG
0"																																		0"
BASE PLATE TYPE	BP2	BP2	BP2	BP2	BP1	BP1	BP1	BP2a	BP2a	BP1	BP1	BP1	BP1	BP2	BP2	BP2	BP1	BP1	BP2	BP2a	BP2a	BP1	BP1	BP1	BP3	BP1	BP1	BP1	BP1	BP3	BP2	BP2	BP1
BASE PLATE THICKNESS	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Column Locations	W'-1.5'	W'-11'	W'-12'	W'-13'	W'-14'	W'-16'	W'-20'	X'-22'	X'-24'	Y'-15'	Y'-20'	Z'-22'	Z'-24'	AA'-15'	AA'-18'	AA'-20'	BB'-21'	BB'-23'	CC'-15'	CC'-18'	CC'-20'	CC'-21'	CC'-23'	DD'-17'	DD'-19'	DD'-22'(10")	DD'-25'	EE'-15'	FF'-17'	FF'-19'	FF'-21.5'	FF'-22.5'	FF'-25'

BASEPLATE SCHEDULE

TYPE	BASEPLATE PROPERTIES				ANCHOR BOLT PROPERTIES			PLATE WASHER PROPERTIES		REMARKS
	LENGTH	WIDTH	COLUMN WELD SIZE	'A'	QUANTITY	DIAMETER	EMBEDMENT	MIN DIMENSIONS	MIN THICKNESS	
BP1	1' - 1"	1' - 1"	5/16"	2"	4	3/4"	9"	2"	1/4"	-
BP2	1' - 2"	1' - 2"	5/16"	2"	4	3/4"	9"	2"	1/4"	-
BP2a	1' - 2"	1' - 2"	5/16"	2"	4	1"	9"	3"	3/8"	-
BP3	1' - 6"	1' - 6"	5/16"	3"	4	1 1/2"	9"	4"	1/2"	-
BP4	2' - 0"	1' - 6"	5/16"	3"	6	1 1/2"	2' - 0"	4"	1/2"	-
BP5	2' - 9"	2' - 9"	5/16"	3"	10	1 1/2"	1' - 0"	4"	1/2"	-

NOTES:
1. COLUMN BASEPLATES AND PIER ORIENTATIONS VARY, SEE PLAN AND DETAILS FOR ORIENTATIONS.
2. FABRICATOR TO EXTEND BASEPLATE LENGTH AS REQ'D AT BRACED FRAMES TO ACCOMODATE GUSSET PLATE DESIGN AND CONFIGURATION, BY DELEGATED DESIGN ENGINEER.

BP1 / BP2 / BP2a / BP3

BP4

BP5

1 BASEPLATE DETAILS

N.T.S.

COLUMN SCHEDULE SYMBOL LEGEND

⊥	DENOTES COLUMN BASEPLATE
T	DENOTES BEAM OVER COLUMN
(GALV)	INDICATES COLUMN ASSEMBLY TO BE HOT-DIPPED GALVANIZED. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL PREPERATION REQUIREMENTS.

NOTE:
COL / POST TYPES, IDENTIFIERS AND ORIENTATIONS ARE FOR ILLUSTRATION ONLY. SEE PLANS AND SCHED FOR INFO

TYPICAL GRID OFFSET DETAIL

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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK · LAURA C. ALEXANDER · 109511 · LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2026
Certificate of Authorization: 021475

#	DATE	DESCRIPTION

Drawn By: SBN
Checked By: LCA
Proj. #: 03-02-00-01-0-010-016
CSArch Proj. #: 215-2402
Construction Documents: 03/12/2026

Sheet Title
COLUMN SCHEDULE

Sheet No.
TR
S003

CONSTRUCTION DOCUMENTS

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COMPONENTS AND CLADDING TABLE

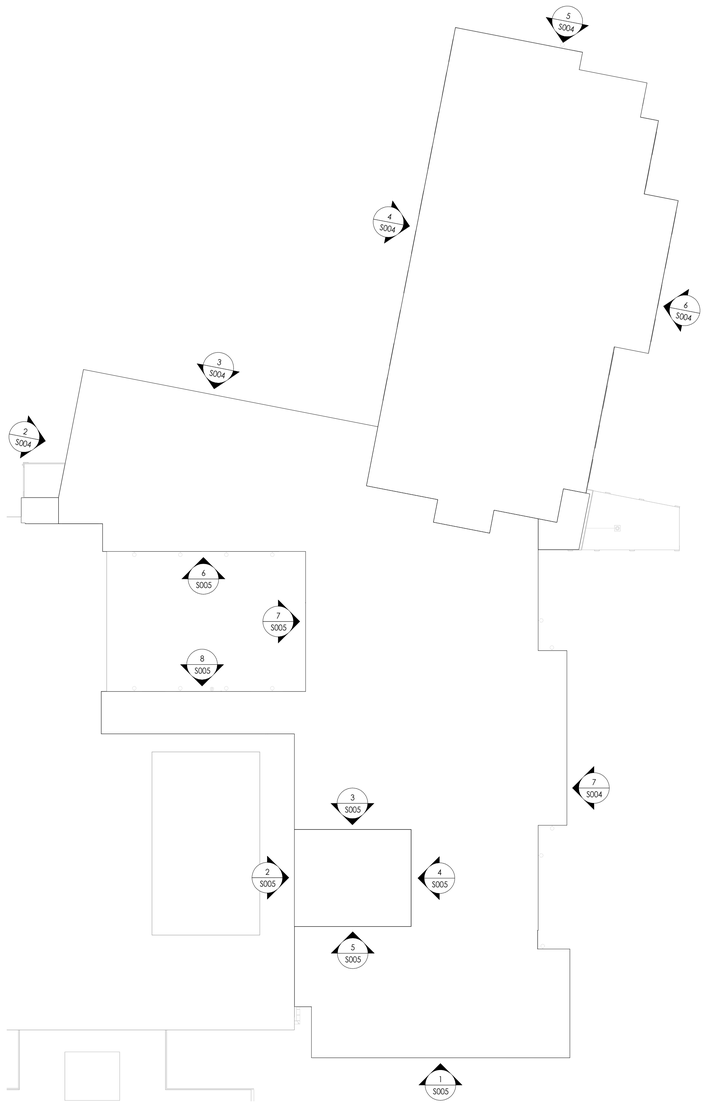
BUILDING EDGE ZONES ARE 14.3 FEET WIDE

WALL ZONE	EFFECTIVE WIND AREA (SF)	ULTIMATE PRESSURE (PSF)
4	10	+20.7/-22.4
4	20	+19.8/-21.5
4	50	+18.5/-20.3
4	100	+17.6/-19.4
5	10	+20.7/-27.6
5	20	+19.8/-25.7
5	50	+18.5/-23.3
5	100	+17.6/-21.5

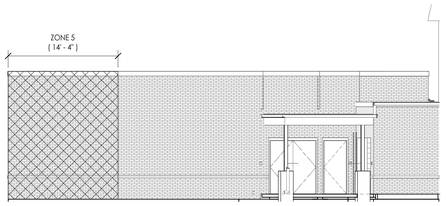
ROOF ZONE	EFFECTIVE WIND AREA (SF)	ULTIMATE PRESSURE (PSF)
1	10	+16.0/-36.0
1	20	+16.0/-33.6
1	50	+16.0/-30.5
1	100	+16.0/-28.1
1'	10	+16.0/-20.7
1'	20	+16.0/-20.7
1'	50	+16.0/-20.7
1'	100	+16.0/-20.7
2	10	+16.0/-47.5
2	20	+16.0/-44.4
2	50	+16.0/-40.4
2	100	+16.0/-37.3
3	10	+16.0/-64.7
3	20	+16.0/-58.6
3	50	+16.0/-50.5
3	100	+16.0/-44.4

WIND PRESSURE NOTES:

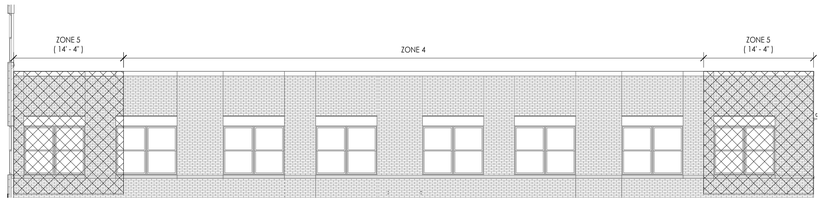
1. NUMBERS ON THIS SHEET ARE THE COMPONENTS AND CLADDING ULTIMATE WIND PRESSURES PERPENDICULAR TO THE SURFACE IN PSF BASED ON TRIBUTARY AREA. MULTIPLY PRESSURES BY 0.6 TO OBTAIN WIND PRESSURES FOR ALLOWABLE STRESS DESIGN (ASCE 7-16 2.4).
2. PRESSURES ARE DERIVED FROM ASCE 7-16.
3. DIRECTIONALITY FACTOR Kd = 0.72
4. NEGATIVE PRESSURES ACT AWAY FROM SURFACE, POSITIVE PRESSURES ACT TOWARD SURFACE.
5. PARAPET PRESSURES ARE THE RESULTANT FORCE FROM POSITIVE WALL AND NEGATIVE ROOF PRESSURES ACTING ON EITHER SIDE OF THE PARAPET.
6. OVERHANG PRESSURES ARE THE COMBINATION OF ADJACENT WALL AND ROOF PRESSURES ACTING UPWARDS ON OVERHANG.ALL DIMENSIONS SHOWN ARE MEASURED PERPENDICULAR TO SURFACE.



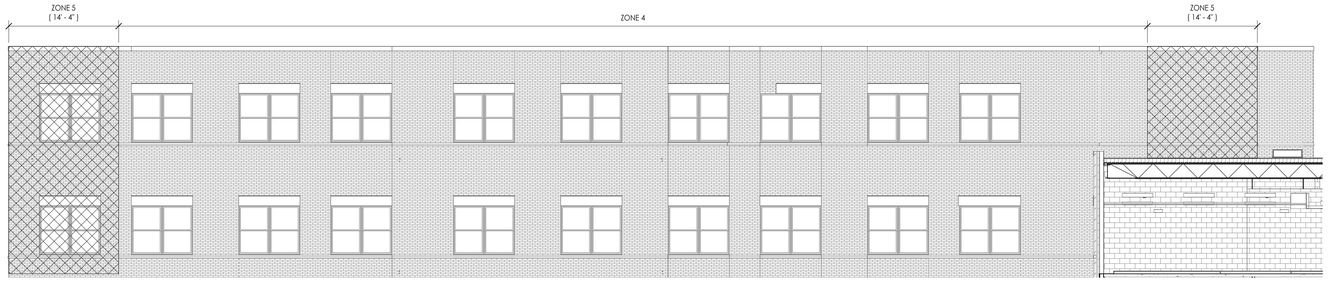
1 C&C ROOF PLAN
N.T.S.



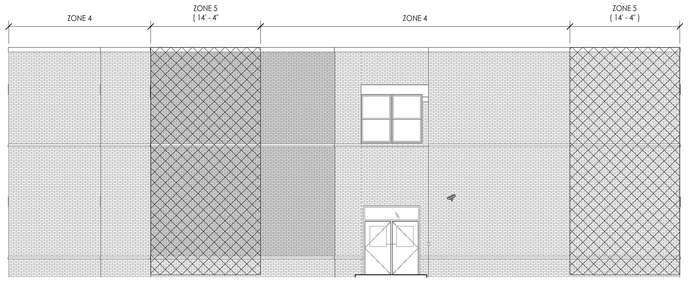
2 C&C ELEVATION
N.T.S.



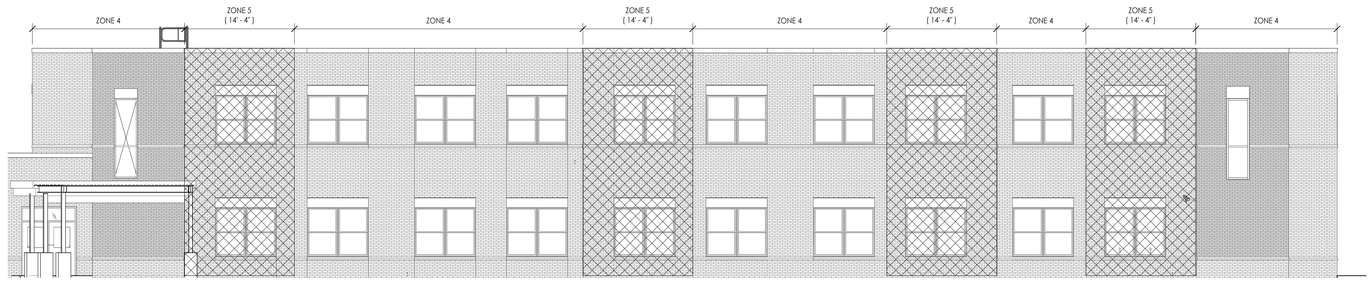
3 C&C ELEVATION
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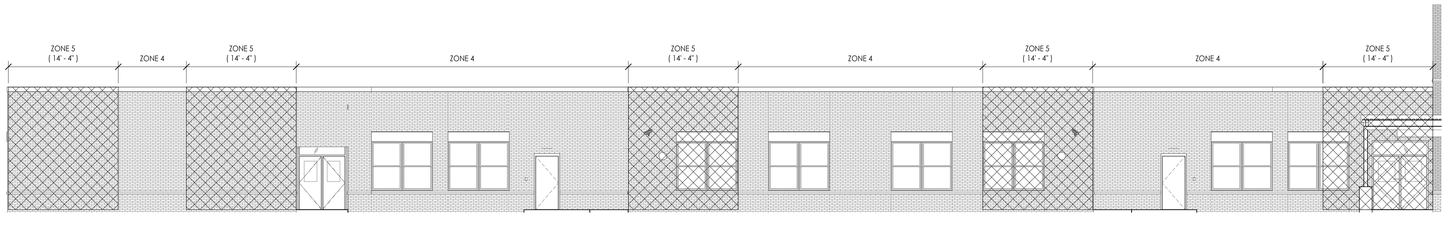
4 C&C ELEVATION
N.T.S.



5 C&C ELEVATION
N.T.S.



6 C&C ELEVATION
N.T.S.



7 C&C ELEVATION
N.T.S.

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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK
LAURA C. ALEXANDER
LICENSED PROFESSIONAL ENGINEER
109511
Expiration Date: 03/31/2028
Certificate of Authorization: 021497

#	DATE	DESCRIPTION

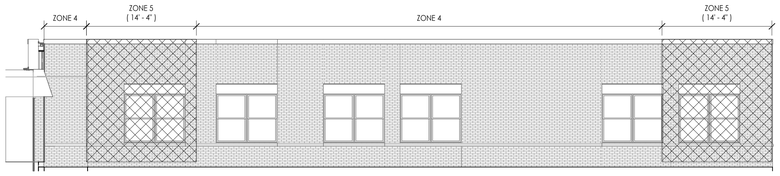
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Checked By: LCA
Proj. #: 03-02-00-01-0-010-016
CSArch Proj. #: 215-2402
Construction Documents: 01/17/2025

Sheet Title
C&C DIAGRAMS

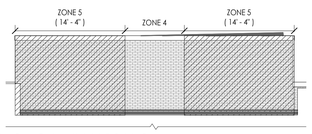
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CONSTRUCTION DOCUMENTS

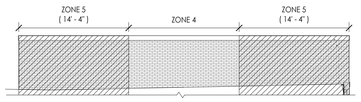
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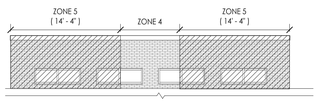
1 C&C ELEVATION 7
N.T.S.



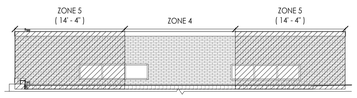
2 C&C ELEVATION 8
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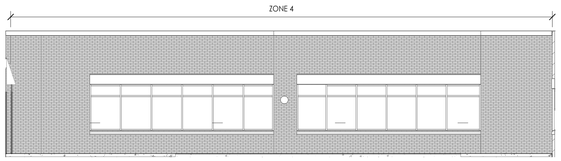
3 C&C ELEVATION 9
N.T.S.



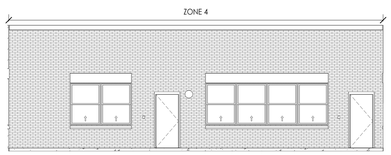
4 C&C ELEVATION 10
N.T.S.



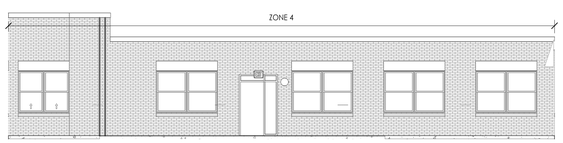
5 C&C ELEVATION 11
N.T.S.



6 C&C ELEVATION 12
N.T.S.



7 C&C ELEVATION 13
N.T.S.



8 C&C ELEVATION 14
N.T.S.

WIND PRESSURE NOTES:

1. NUMBERS ON THIS SHEET ARE THE COMPONENTS AND CLADDING ULTIMATE WIND PRESSURES PERPENDICULAR TO THE SURFACE IN PSF BASED ON TRIBUTARY AREA. MULTIPLY PRESSURES BY 0.6 TO OBTAIN WIND PRESSURES FOR ALLOWABLE STRESS DESIGN (ASCE 7-16 2.4).
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5. PARAPET PRESSURES ARE THE RESULTANT FORCE FROM POSITIVE WALL AND NEGATIVE ROOF PRESSURES ACTING ON EITHER SIDE OF THE PARAPET.
6. OVERHANG PRESSURES ARE THE COMBINATION OF ADJACENT WALL AND ROOF PRESSURES ACTING UPWARDS ON OVERHANG.ALL DIMENSIONS SHOWN ARE MEASURED PERPENDICULAR TO SURFACE.

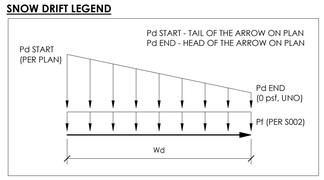
COMPONENTS AND CLADDING TABLE

BUILDING EDGE ZONES ARE 14.3 FEET WIDE

WALL ZONE	EFFECTIVE WIND AREA (SF)	ULTIMATE PRESSURE (PSF)
4	10	+20.7/-22.4
4	20	+19.8/-21.5
4	50	+18.5/-20.3
4	100	+17.6/-19.4
5	10	+20.7/-27.6
5	20	+19.8/-25.7
5	50	+18.5/-23.3
5	100	+17.6/-21.5

ROOF ZONE	EFFECTIVE WIND AREA (SF)	ULTIMATE PRESSURE (PSF)
1	10	+16.0/-36.0
1	20	+16.0/-33.6
1	50	+16.0/-30.5
1	100	+16.0/-28.1
1'	10	+16.0/-20.7
1'	20	+16.0/-20.7
1'	50	+16.0/-20.7
1'	100	+16.0/-20.7
2	10	+16.0/-47.5
2	20	+16.0/-44.4
2	50	+16.0/-40.4
2	100	+16.0/-37.3
3	10	+16.0/-64.7
3	20	+16.0/-58.6
3	50	+16.0/-50.5
3	100	+16.0/-44.4

SNOW DRIFT LEGEND



SNOW DRIFT LOAD	Pd = 97.3 PSF	Wd = 20' - 3", UNO
SNOW DRIFT LOAD	Pd = 67.4 PSF	Wd = 14' - 0", UNO
SNOW DRIFT LOAD	Pd = 58.3 PSF	Wd = 12' - 2", UNO
SNOW DRIFT LOAD	Pd = 39.0 PSF	Wd = 8' - 2", UNO
SNOW DRIFT LOAD	Pd = 30 PSF	Wd = 6' - 3", UNO
SNOW DRIFT LOAD	Pd = 26.1 PSF	Wd = 5' - 2", UNO

NOTE: DRIFT LOADS SHALL BE SUPERIMPOSED ON THE FLAT ROOF SNOW LOAD



9 SNOW DRIFT PLAN
N.T.S.

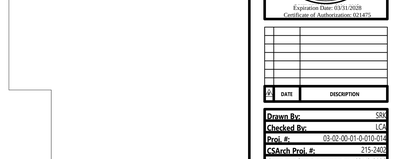
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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT



Expiration Date: 03/31/2028
Certificate of Authorization: 021475

NO.	DATE	DESCRIPTION

Drawn By:	SDO
Checked By:	LCA
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Construction Documents:	03/12/2026

Sheet Title
C&C AND SNOW DRIFT DIAGRAMS

Sheet No.
TR S005

CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt

SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS

THE FOLLOWING TABLES COMPRISES THE STRUCTURAL SPECIAL INSPECTION REQUIREMENTS FOR THIS PROJECT IN ACCORDANCE WITH CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE. REFER TO THE PROJECT SPECIFICATIONS FOR REQUIRED QUAULIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTION ACTIVITIES AND ADDITIONAL TESTING INFORMATION.

EARTHWORK - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING

AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	-	1705.6
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC		
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	PERIODIC		
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS		
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC		

CAST-IN-PLACE CONCRETE - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING

AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	PERIODIC	ACI 318 CH. 20, 25.2, 25.3, 26.6.1 - 26.6.3	1908.4
2. REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND C. INSPECT ALL OTHER WELDS.	PERIODIC PERIODIC CONTINUOUS	AWS D1.4 ACI 318: 26.6.4	-
3. INSPECT ANCHORS CAST IN CONCRETE	PERIODIC	ACI 318:17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS.	CONTINUOUS PERIODIC	ACI 318: 17.8.2.4 ACI 318:17.8.2	-
5. VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 26.5.3 - 26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS.	CONTINUOUS CONTINUOUS	ACI 318: 26.10	-
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	PERIODIC	ACI 318: CH. 26.8	-
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 26.11.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 26.11.2 (b)	-

MASONRY CONSTRUCTION - REQUIREMENTS FOR LEVEL B SPECIAL INSPECTION & TESTING

AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	PERIODIC	-	1705.4
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ITEMS ARE IN COMPLIANCE: A. PROPORTIONS OF SITE-PREPARED MORTAR. B. CONSTRUCTION OF MORTAR JOINTS. C. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES. D. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS, AND ANCHORAGES. E. PRESTRESSING TECHNIQUE. F. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY.	PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC	-	
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: A. GROUT SPACE B. GRADE, TYPE AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES. C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES. D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS. E. CONSTRUCTION OF MORTAR JOINTS.	PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC	TMS 402 SEC. 6.1 TMS 402 SEC. 6.1, 6.2.1, 6.2.6, 6.2.7	
4. VERIFY DURING CONSTRUCTION: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGES OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. C. WELDING OF REINFORCEMENT. D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLE WEATHER (TEMPERATURES BELOW 40) OR HOT WEATHER (TEMPERATURES ABOVE 90). E. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE. F. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE G. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS.	PERIODIC PERIODIC CONTINUOUS PERIODIC CONTINUOUS CONTINUOUS PERIODIC	TMS 402 SEC. 6.1.6.1, 6.2.1 TMS 402 SEC. 8.1.6.7.2, 9.3.3.4(C), 11.3.3.4(B)	
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	PERIODIC		

SPRAYED FIRE-RESISTANT MATERIALS - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING

AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. STRUCTURAL MEMBER SURFACE CONDITIONS MEETS REQUIREMENTS OF APPROVED DESIGN AND MANUFACTURER A. FIELD REVIEW OF SURFACE CONDITIONS PRIOR TO APPLICATION	PERIODIC		1705.14.1 1705.14.2
2. APPLICATION/DENSITY/BOND STRENGTH: A. FIELD REVIEW OF APPLICATION OPERATION, THICKNESS, AND DENSITY (DURING AND AFTER INSTALLATION)	PERIODIC	ASTM E605, ASTM E736	1705.14.1 1705.14.3 THRU 1705.14.6
3. MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS A. FIELD REVIEW OF APPLICATION OPERATION AND THICKNESS	PERIODIC	AWCI-12-B	1705.15

OPEN-WEB STEEL JOISTS AND JOIST GIRDERS - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING

AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
A. END CONNECTIONS - WELDING OR BOLTED.	PERIODIC	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.	1705.2.3
B. BRIDGING - HORIZONTAL OR DIAGONAL			
1. STANDARD BRIDGING	PERIODIC	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.	
2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONSLISTED IN SECTION 2207.1.	PERIODIC		

STEEL CONSTRUCTION - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING

AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. FABRICATOR'S SHOP TESTING AND QUALITY CONTROL PROGRAM: A. VERIFY FABRICATOR'S CERTIFICATION AND QUALITY CONTROL PROGRAM. B. SPECIAL INSPECTIONS REQUIRED IN FABRICATOR'S SHOP FOR ELEMENTS IDENTIFIED BELOW.	PERIODIC NOT REQUIRED IF FABRICATOR IS AISC CERTIFIED	AISC PLANT CERTIFICATION PROGRAM	1705.2
2. INSPECTION TASKS FOR HIGH-STRENGTH BOLTS, NUTS AND WASHERS PRIOR TO BOLTING: A. VERIFY MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS. B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS. C. PROPER FASTENERS SELECTED FOR JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE) D. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL. E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS. F. PRE-INSTALLATION VERIFICATION AND TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED. G. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENERS.	CONTINUOUS PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC	AISC 360, TABLE N5.6-1	
3. INSPECTION TASKS FOR HIGH-STRENGTH BOLTS, NUTS AND WASHERS DURING BOLTING: A. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED. B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION. C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING. D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE POST RIGID POINT TOWARD THE FREE EDGES.	PERIODIC PERIODIC PERIODIC PERIODIC	AISC 360, TABLE N5.6-2	
4. INSPECTION TASK FOR HIGH-STRENGTH BOLTS, NUTS AND WASHERS AFTER BOLTING: A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	CONTINUOUS	AISC 360, TABLE N5.6-3	
5. INSPECTION TASKS PRIOR TO WELDING: A. WELDING PROCEDURE SPECIFICATIONS (WPSs) ARE AVAILABLE B. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES ARE AVAILABLE C. MATERIAL IDENTIFICATION (TYPE/GRADE) D. WELDER IDENTIFICATION SYSTEM F. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING & FACE, LEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIT (IF APPLICABLE) G. CONFIGURATION AND FINISH OF ACCESS HOLE. H. FIT-UP OF FILLET WELDS: DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACES) ALIGNMENT (TACK WELD QUALITY AND LOCATION)	CONTINUOUS CONTINUOUS PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC	AISC 360, TABLE N5.4-1	
6. INSPECTION TASKS DURING WELDING: A. USE OF QUALIFIED WELDERS B. CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKING AND EXPOSURE C. ENVIRONMENTAL CONDITIONS INCLUDING WIND SPEED WITHIN LIMITS, PRECIPITATION, AND TEMPERATURE D. WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT TRAVEL SPEED SELECTED WELDING MATERIALS SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) PROPER POSITION (F, V, H, OH) E. WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS	PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC	AISC 360, TABLE N5.4-2	
7. INSPECTION TASKS AFTER WELDING: A. WELDS CLEANED. B. SIZE, LENGTH, AND LOCATIONS OF WELDS C. WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION WELD/BASE-METAL FUSION CRATER CROSS SECTION WELD PROFILES WELD SIZE UNDERCUT POROSITY D. ARC STRIKES E. k-AREA F. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) G. REPAIR ACTIVITIES H. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	PERIODIC CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS	AISC 360, TABLE N5.4-3	
8. VERIFY PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENT SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. VERIFY DIAMETER, GRADE, TYPE, AND LENGTH OF ANCHOR ROD OR EMBEDMENT ITEM AND THE EXTENT OR DEPTH OF THE EMBEDMENT INTO THE CONCRETE PRIOR TO PLACEMENT OF CONCRETE.	PERIODIC	AISC 360, N5.7	
9. INSPECT STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS: A. DETAILS SUCH AS BRACING AND STIFFENERS. B. MEMBER LOCATIONS. C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	PERIODIC	AISC 360, N5.8	
10. INSPECT STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT: A. PLACEMENT AND INSTALLATION OF STEEL DECK. B. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. C. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS.	PERIODIC	AISC 360, N6	

STATEMENT OF SPECIAL INSPECTIONS

LOCATION	-
OWNER	BINGHAMTON CITY SCHOOL DISTRICT
DESIGN PROFESSIONAL IN CHARGE	Laura Alexander, PE, SE

This statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the applicable building code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This Statement of Special Inspections encompasses the following disciplines: STRUCTURAL. The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge (RDP). Discovered discrepancies shall be brought to the immediate attention of the contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the RDP. The Special Inspection program does not relieve the contractor of his or her responsibility for quality assurance.

Interim reports shall be submitted to the Building Official and the RDP, monthly.

A Final Report of Special Inspections documenting completion of all required Special Inspections, testing, and correction of any discrepancies noted in the inspections shall be submitted by the special Inspection Coordinator prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the contractor.

In accordance with the applicable building code, the Observations and Inspections listed in the Schedule of Special Inspections are required.

SCHEDULE OF INSPECTION AND TESTING AGENCIES

SPECIAL INSPECTION AGENCIES	*FIRM*	*ADDRESS*	*TELEPHONE No.*
Special Inspection Coordinator	TBD	TBD	(###) ###-####
Inspector	TBD	TBD	(###) ###-####

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent in accordance with the applicable building code, and not by the Contractor or Subcontractor whose work is to be inspected or tested. An approved agency shall be objective, competent and independent from the contractor responsible for the work being inspected. The agency shall also disclose to the building official and the registered design professional in responsible charge possible conflicts of interest so that objectivity can be confirmed.

STATEMENT OF CONTRACTORS RESPONSIBILITY

In accordance with the applicable building code, each contractor responsible for the construction of a main wind or seismic force-resisting system, designated seismic system or a wind or seismic force-resisting component listed in the statement of special inspections above shall submit a written statement of responsibility to the building official and the owner or the owner's authorized agent prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain acknowledgement of awareness of the special requirements contained in the statement of special inspections.

QUALIFICATIONS OF INSPECTORS AND TESTING TECHNICIANS

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test of inspection have a specific certification or license as indicated below, such designation shall appear below the Agency Number on the Schedule.

PE/SE	Structural Engineer - a licensed PE specializing in the design of building structures
PE/GE	Geotechnical Engineer - a licensed PE specializing in soil mechanics and foundations
EIT	Engineer - In - Training - a graduate engineer who as passed the Fundamentals of Engineering examination
AMERICAN CONCRETE INSTITUTE (ACI) CERTIFICATION	
ACI-CFTT	Concrete Field Testing Technician - Grade 1
ACI-CCSI	Concrete Construction Special Inspector
ACI-LTT	Laboratory Testing Technician - Grade 1&2
ACI-STT	Strength Testing Technician
AMERICAN WELDING SOCIETY (AWS) CERTIFICATION	
AWS-CWI	Certified Welding Inspector
AWS/AISC-SSI	Certified Structural Steel Inspector
INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION	
ICC-SMSI	Structural Masonry Special Inspector
ICC-SWSI	Structural Steel and Welding Special Inspector
ICC-SFSI	Spray-Applied Fireproofing Special Inspector
ICC-PCSI	Prestressed Concrete Special Inspector
ICC-RCSI	Reinforced Concrete Special Inspector
NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET)	
NICET-CT	Concrete Technician - Levels I, II, III, & IV
NICET-ST	Soil Technicians - Levels I, II, III & IV
NICET-GET	Geotechnical Engineering Technician - Levels I, II, III & IV

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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK
LAURA C. ALEXANDER
109511
LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2026
Certificate of Authorization: 021475

#	DATE	DESCRIPTION

Drawn By: SRB
Checked By: LCA
Proj. #: 03-02-00-01-0-010-014
CSArch Proj. #: 215-2402
Construction Documents: 03/12/2026

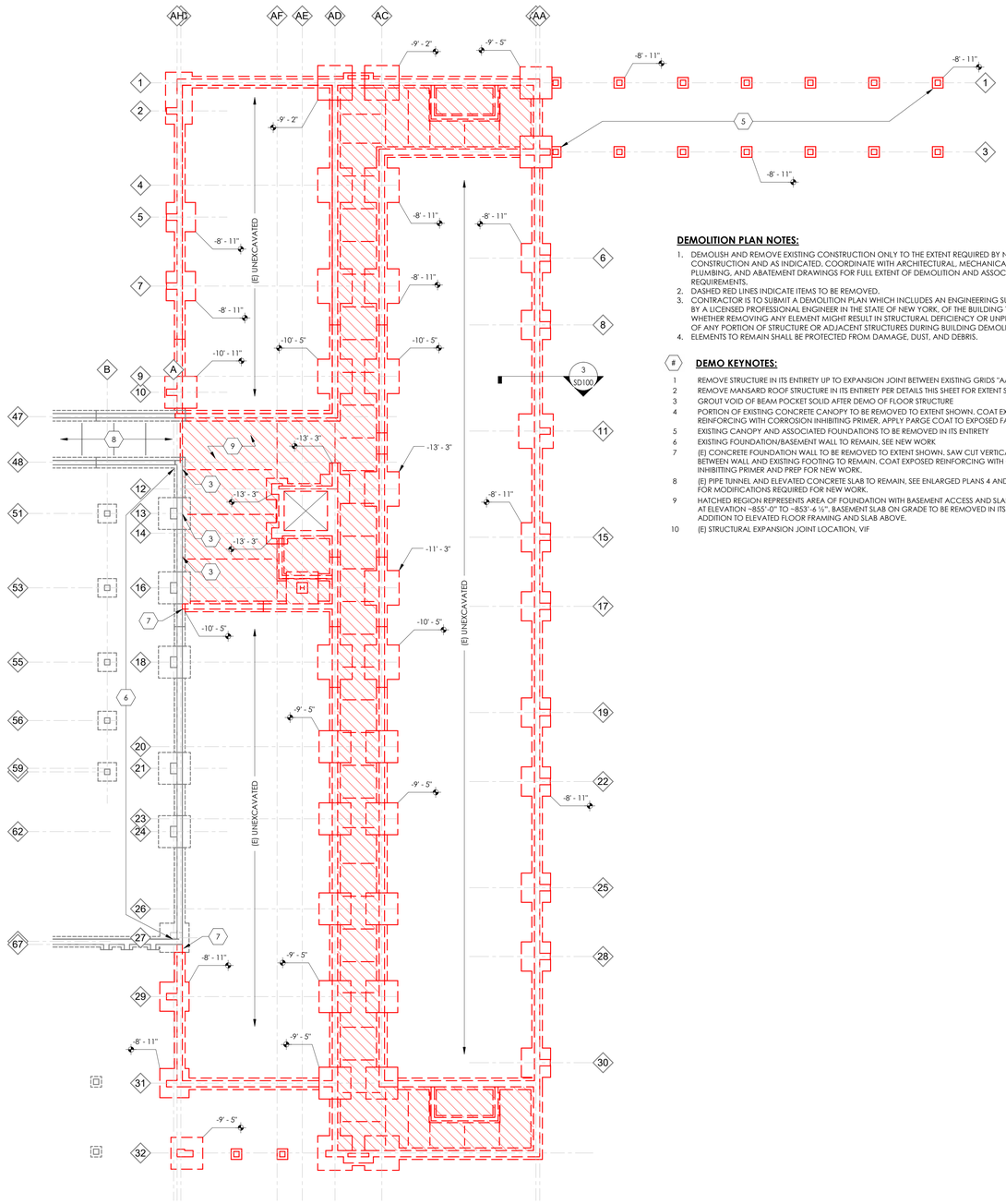
Sheet Title
SPECIAL INSPECTIONS

Sheet No.
TR S006

CONSTRUCTION DOCUMENTS

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1 FOUNDATION DEMO PLAN

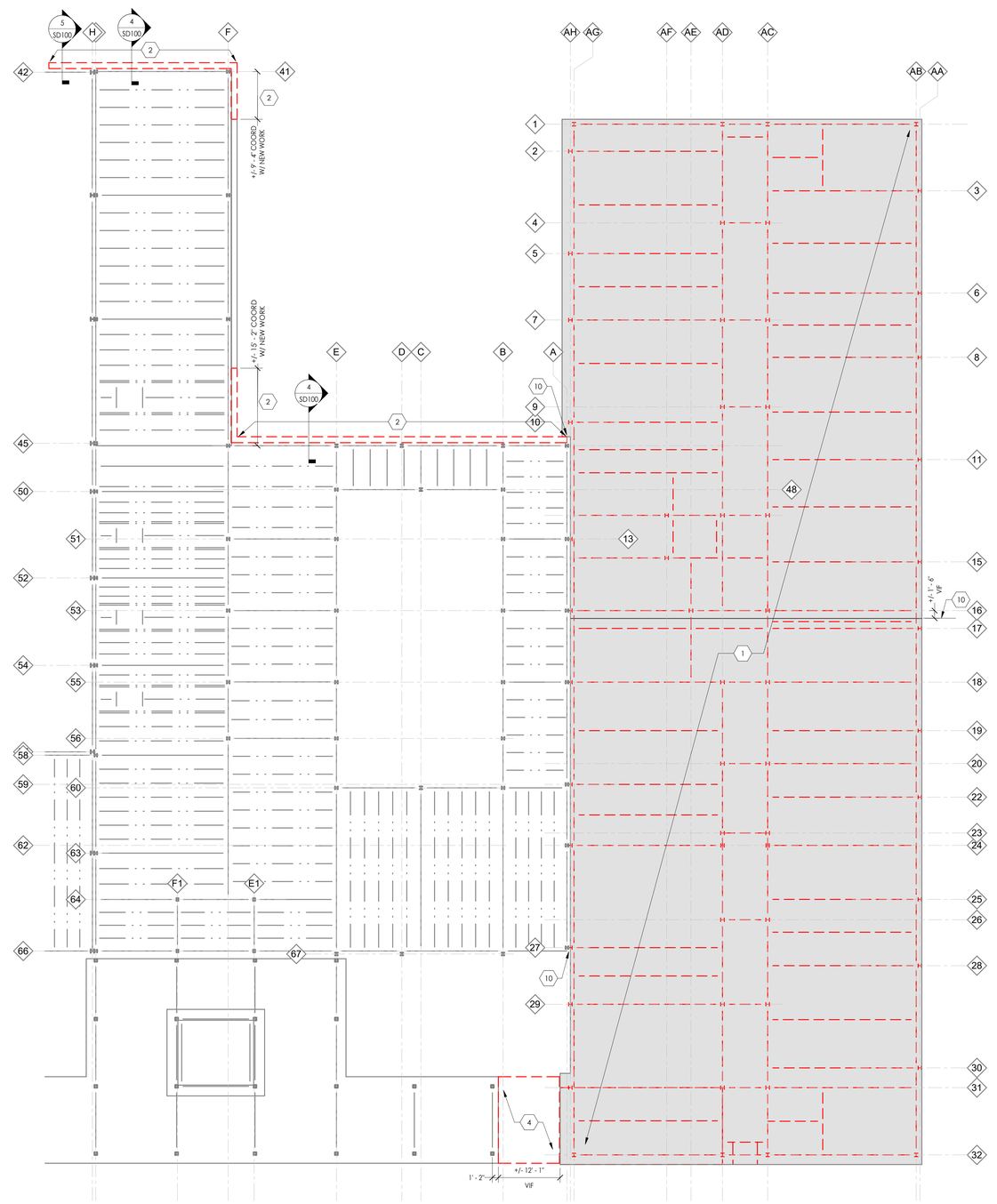
0" 4' 8' 16' 32'
3/32" = 1'-0"

DEMOLITION PLAN NOTES:

1. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. COORDINATE WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING, AND ABATEMENT DRAWINGS FOR FULL EXTENT OF DEMOLITION AND ASSOCIATED REQUIREMENTS.
2. DASHED RED LINES INDICATE ITEMS TO BE REMOVED.
3. CONTRACTOR IS TO SUBMIT A DEMOLITION PLAN WHICH INCLUDES AN ENGINEERING SURVEY, PREPARED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK, OF THE BUILDING TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF STRUCTURE OR ADJACENT STRUCTURES DURING BUILDING DEMOLITION OPERATIONS.
4. ELEMENTS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, DUST, AND DEBRIS.

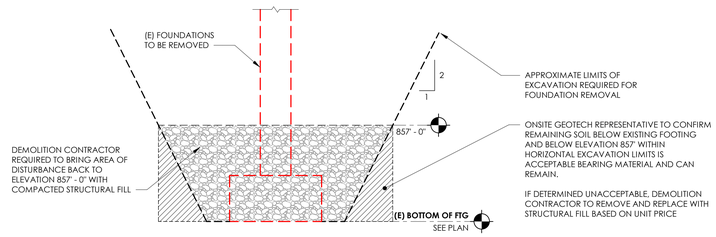
DEMO KEYNOTES:

#	
1	REMOVE STRUCTURE IN ITS ENTIRETY UP TO EXPANSION JOINT BETWEEN EXISTING GRIDS "AA" AND "AH"
2	REMOVE MANSARD ROOF STRUCTURE IN ITS ENTIRETY PER DETAILS THIS SHEET FOR EXTENT SHOWN
3	GROUT VOID OF BEAM POCKET SOLID AFTER DEMO OF FLOOR STRUCTURE
4	PORTION OF EXISTING CONCRETE CANOPY TO BE REMOVED TO EXTENT SHOWN. COAT EXPOSED REINFORCING WITH CORROSION INHIBITING PRIMER, APPLY PARGE COAT TO EXPOSED FACE.
5	EXISTING CANOPY AND ASSOCIATED FOUNDATIONS TO BE REMOVED IN ITS ENTIRETY
6	EXISTING FOUNDATION/BASEMENT WALL TO REMAIN, SEE NEW WORK
7	(E) CONCRETE FOUNDATION WALL TO BE REMOVED TO EXTENT SHOWN. SAW CUT VERTICAL DOWELS BETWEEN WALL AND EXISTING FOOTING TO REMAIN. COAT EXPOSED REINFORCING WITH CORROSION INHIBITING PRIMER AND PREP FOR NEW WORK.
8	(E) PIPE TUNNEL AND ELEVATED CONCRETE SLAB TO REMAIN, SEE ENLARGED PLANS 4 AND 5 ON S201 FOR MODIFICATIONS REQUIRED FOR NEW WORK.
9	HATCHED REGION REPRESENTS AREA OF FOUNDATION WITH BASEMENT ACCESS AND SLAB ON GRADE AT ELEVATION ~855'-0" TO ~853'-6 ½". BASEMENT SLAB ON GRADE TO BE REMOVED IN ITS ENTIRETY, IN ADDITION TO ELEVATED FLOOR FRAMING AND SLAB ABOVE.
10	(E) STRUCTURAL EXPANSION JOINT LOCATION, VIF



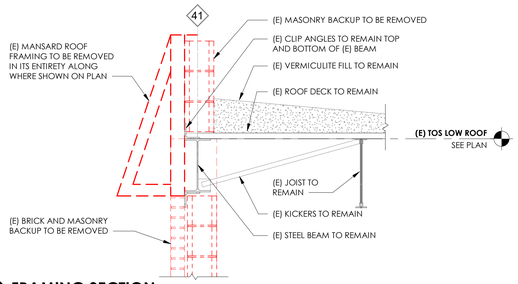
2 2ND FLOOR DEMO PLAN

0" 4' 8' 16' 32'
3/32" = 1'-0"



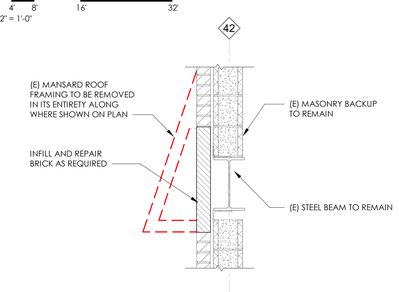
3 FOUNDATION DEMO SECTION

N.T.S.



4 FRAMING SECTION

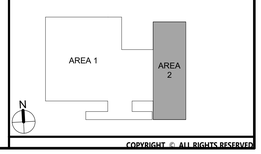
0" 6" 1' 2' 4'
3/4" = 1'-0"



5 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"

KEY PLAN



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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT



Expiration Date: 03/31/2028
Certificate of Authorization: 021475

NO.	DATE	DESCRIPTION

Drawn By: Author
Checked By: Checker
Proj. #: 03-02-00-01-0-010-014
CSArch Proj. #: 215-2402
Construction Documents: 03/13/2026

Sheet Title
STRUCTURAL DEMO PLANS

Sheet No.
TR SD100

CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt

FOUNDATION LEGEND

INDICATES APPROXIMATE LOCATION AND INDENTIFICATION OF TEST PIT AS IDENTIFIED IN THE GEOTECHNICAL REPORT INDICATED IN THE GENERAL NOTES

INDICATES APPROXIMATE LOCATION AND INDENTIFICATION OF BORE HOLE AS IDENTIFIED IN THE GEOTECHNICAL REPORT INDICATED IN THE GENERAL NOTES

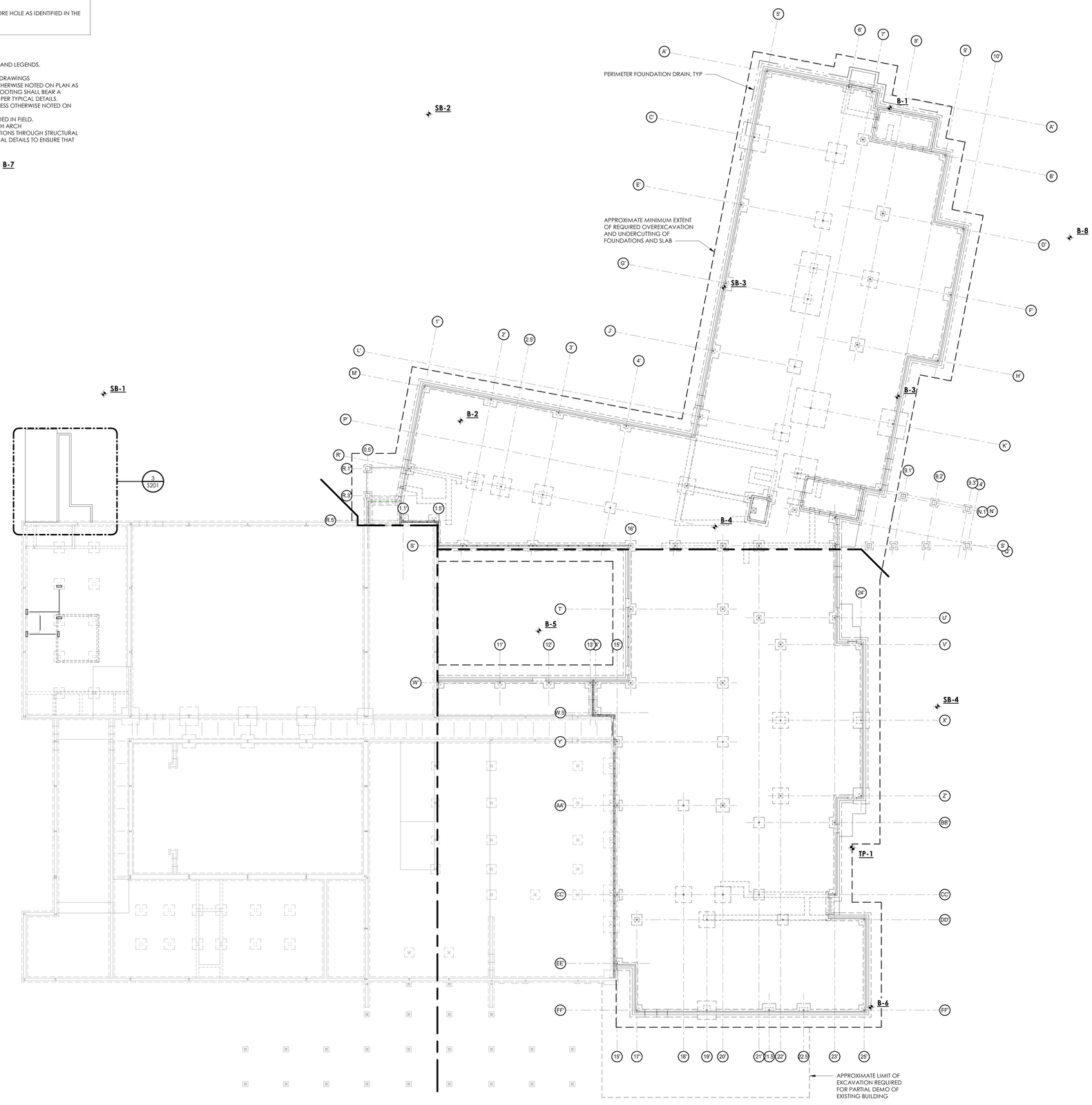
FOUNDATION PLAN NOTES:

1. SEE SHEET S001 THROUGH S006 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS
3. FINISH FLOOR REFERENCE ELEVATION = 0' - 0" = 862.00' ABOVE SEA LEVEL, PER CIVIL DRAWINGS
4. TOP OF FOOTING IS (3' - 6") BELOW FINISH FLOOR REFERENCE ELEVATION, UNLESS OTHERWISE NOTED ON PLAN AS (-X' - X") RELATIVE TO TOP OF FINISHED FLOOR REFERENCE ELEVATION. BOTTOM OF FOOTING SHALL BEAR A MINIMUM OF (4' - 4") BELOW EXTERIOR FINISH GRADE. STEP FOOTINGS AS REQUIRED PER TYPICAL DETAILS.
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BORE HOLE AND TEST PIT LOCATION DATA

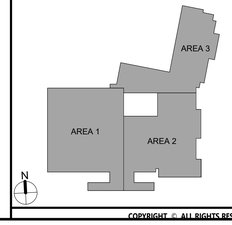
MARK	(E) GROUND ELEVATION (FT)	DEPTH TO FILL (FT)	DEPTH TO BEDROCK (FT)
B-1	863	1	N/A
B-2	862	6	N/A
B-3	862	8	N/A
B-4	862	4	N/A
B-5	862	6	N/A
B-6	861	4	N/A
B-7	862	1	N/A
B-8	862	4	N/A
TP-1	862		N/A
SB-1	858	10	N/A
SB-2	858	4	N/A
SB-3	858	10	N/A
SB-4	861	6	N/A

NOTE:
INFORMATION REITERATED IN TABLE FOR EASE OF REFERENCE.
REFER TO GEOTECHNICAL REPORT FOR DETAILED INFORMATION.



1 **OVERALL FOUNDATION PLAN**
0' 4' 8' 16' 32'
1/16" = 1'-0"

KEY PLAN



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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK
LAURA C. ALEXANDER
105511
LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2026
Certificate of Authorization: 021475

#	DATE	DESCRIPTION

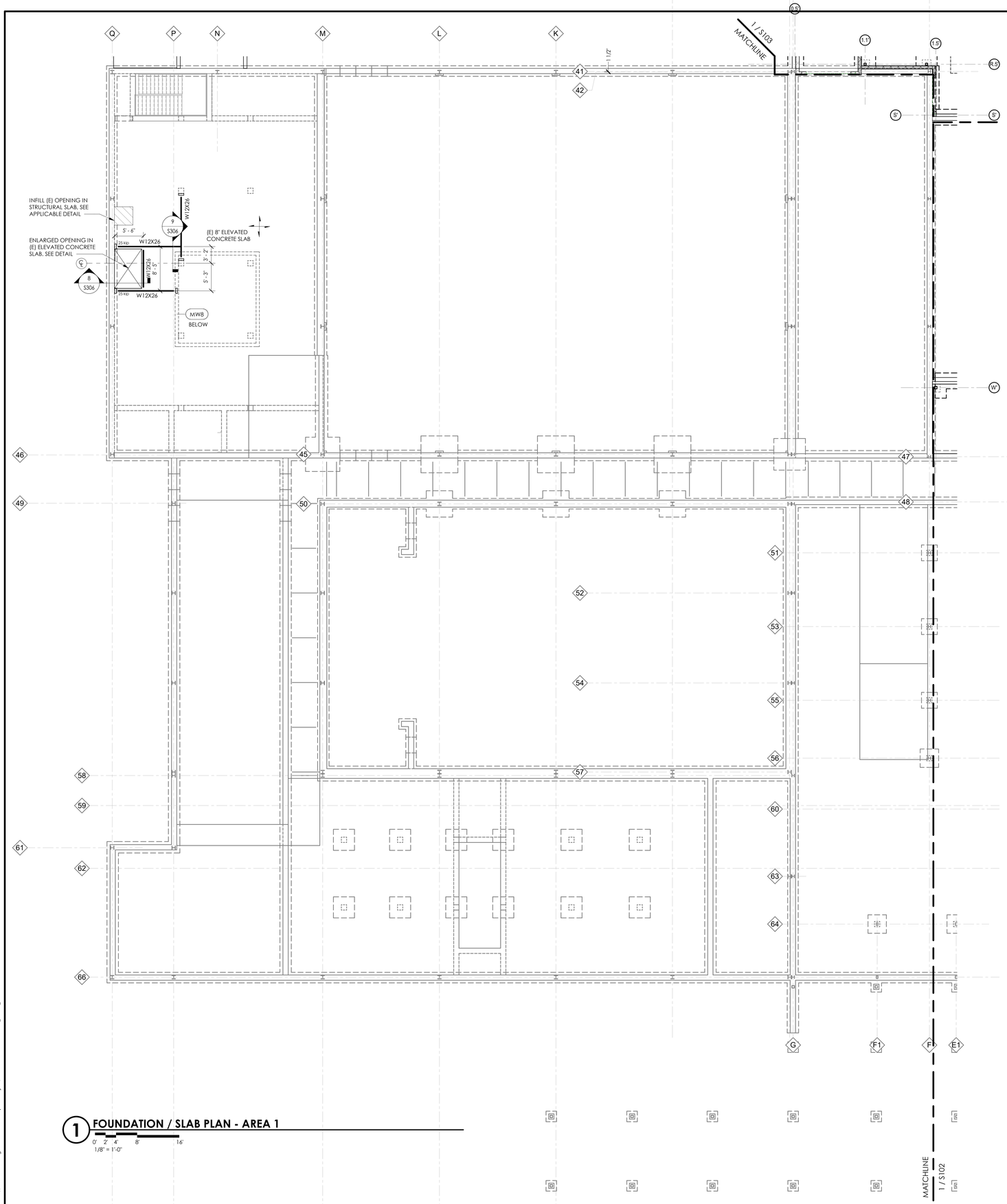
Drawn By: SBK
Checked By: LCA
Proj. #: 03-02-00-01-0-010-016
CSArch Proj. #: 215-2402
Construction Documents: 03/12/2026

Sheet Title
OVERALL FOUNDATION PLAN

Sheet No.
TR
S100

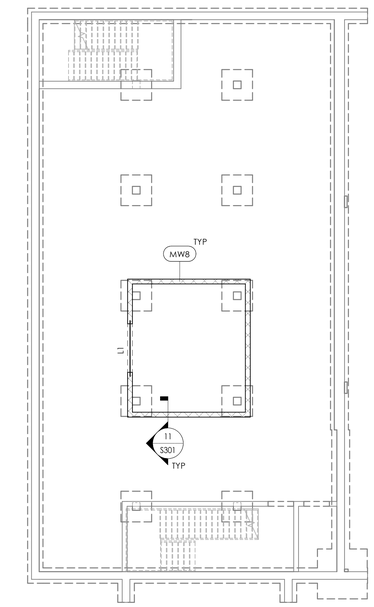
CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt



1 FOUNDATION / SLAB PLAN - AREA 1

0' 2' 4' 8' 16'
1/8" = 1'-0"



2 BOILER ROOM FOUNDATION PLAN

0' 2' 4' 8' 16'
1/8" = 1'-0"

FOUNDATION LEGEND

F# (-#' - #")	F# - DENOTES FOOTING MARK (SEE FOOTING SCHEDULE) (#' - #") - DENOTES TOP OF FOOTING ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
P# (#' - #")	P# - DENOTES PIER MARK (SEE PIER SCHEDULE) (#' - #") - DENOTES TOP OF PIER ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
CW# MW#	CW# - DENOTES CONCRETE WALL MARK (SEE FOUNDATION WALL AND/OR WALL SCHEDULE) MW# - DENOTES MASONRY WALL MARK (SEE MASONRY WALL SCHEDULE)
WF#	WF# - DENOTES WALL FOOTING MARK (SEE WALL FOOTING SCHEDULE)
#'-#"	#' - #" - DENOTES TOP OF WALL FOOTING ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
[#'-#"]	#' - #" - DENOTES TOP OF WALL ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
SOG#	SOG# - DENOTES SLAB-ON-GRADE MARK (SEE SLAB-ON-GRADE SCHEDULE)
#'-#"	#' - #" - DENOTES TOP OF CONCRETE ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
F.D.	FLOOR DRAIN (SEE MECH AND ARCH)
C.O.	CLEAN OUT (SEE MECH AND ARCH)
	DENOTES STEP IN SLAB
	DENOTES SLOPE IN SLAB
	DENOTES MASONRY FIRE WALL, SEE PLAN AND SCHED FOR SIZE AND REINFORCING, COORDINATE WITH ARCH DRAWINGS FOR HOURLY REQUIREMENTS

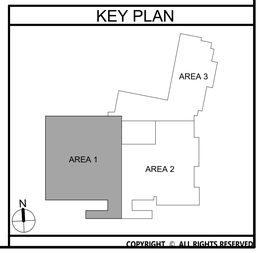
FOUNDATION PLAN NOTES:

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FOUNDATION PLAN KEYNOTES

1 THICKENED SLAB BELOW ALL INTERIOR CMU PARTITION WALLS TYPICAL DETAILS. COORDINATE ALL INTERIOR CMU PARTITION WALL LOCATIONS WITH ARCH DRAWINGS, TYPICAL
2 FROST-PROTECTED EGRESS SLAB, SEE EXTERIOR CONCRETE APRON AT EXTERIOR DOOR TYPICAL DETAIL
3 PIPE PENETRATION THRU FOUNDATION WALL, SEE PLUMB AND CIVIL DRAWINGS FOR LOCATION. STEP FOOTING AS REQUIRED IN ACCORDANCE WITH TYPICAL PIPE PENETRATION DETAIL AND TYPICAL WALL FOOTING STEP DETAIL.
4 PERIMETER FOUNDATION DRAIN, TYP., TIE INTO STORM DRAINAGE, COORDINATE WITH CIVIL DRAWINGS
5 THICKENED SLAB BELOW STEEL STAIR STRINGER, SEE TYPICAL DETAIL. COORDINATE LOCATION WITH ARCH DRAWINGS.
6 COLUMN FOOTING TO BE REINFORCED WITH #5 BARS @ 12" OC EW. DOWEL BARS INTO ADJACENT EXISTING FOOTINGS WITH HILTI HIT-HY 200 ADHESIVE (OR APPROVED EQ) AND MIN 6" EMBED

KEY PLAN



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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK
LAURA C. ALEXANDER
100511
LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2028
Certificate of Authorization: 021475

NO.	DATE	DESCRIPTION

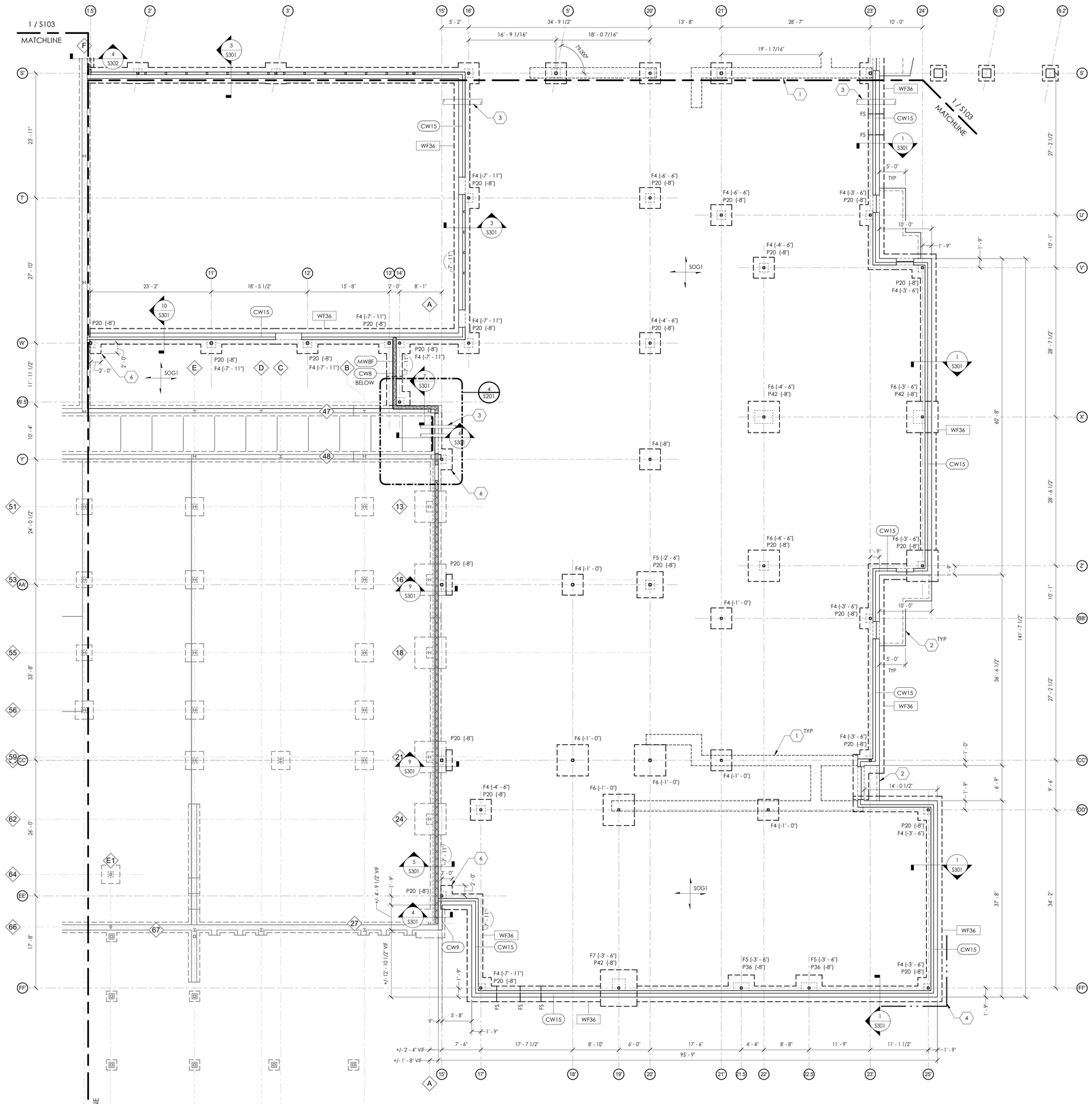
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Checked By:	LCA
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Construction Documents:	03/12/2026

Sheet Title
FOUNDATION/ SLAB PLAN - AREA 1

Sheet No.
TR S101

CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt



1 FOUNDATION / SLAB PLAN - AREA 2

0' 2' 4' 8' 16'

1/8" = 1'-0"

FOUNDATION LEGEND

F# (-#' - #")	F# - DENOTES FOOTING MARK (SEE FOOTING SCHEDULE) (#' - #") - DENOTES TOP OF FOOTING ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
P# (#' - #")	P# - DENOTES PIER MARK (SEE PIER SCHEDULE) (#' - #") - DENOTES TOP OF PIER ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
CW# MW#	CW# - DENOTES CONCRETE WALL MARK (SEE FOUNDATION WALL AND/OR WALL SCHEDULE) MW# - DENOTES MASONRY WALL MARK (SEE MASONRY WALL SCHEDULE)
WF#	WF# - DENOTES WALL FOOTING MARK (SEE WALL FOOTING SCHEDULE)
#'-#"	#' - #" - DENOTES TOP OF WALL FOOTING ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
[#'-#"]	#' - #" - DENOTES TOP OF WALL ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
SOG#	SOG# - DENOTES SLAB-ON-GRADE MARK (SEE SLAB-ON-GRADE SCHEDULE)
#'-#"	#' - #" - DENOTES TOP OF CONCRETE ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
F.D.	FLOOR DRAIN (SEE MECH AND ARCH)
C.O.	CLEAN OUT (SEE MECH AND ARCH)
	DENOTES STEP IN SLAB
	DENOTES SLOPE IN SLAB
	DENOTES MASONRY FIRE WALL, SEE PLAN AND SCHED FOR SIZE AND REINFORCING, COORDINATE WITH ARCH DRAWINGS FOR HOURLY REQUIREMENTS

FOUNDATION PLAN NOTES:

1. SEE SHEET S001 THROUGH S006 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
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FOUNDATION PLAN KEYNOTES

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2 FROST-PROTECTED EGRESS SLAB, SEE EXTERIOR CONCRETE APRON AT EXTERIOR DOOR TYPICAL DETAIL

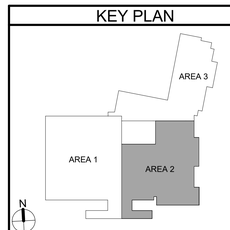
3 PIPE PENETRATION THRU FOUNDATION WALL, SEE PLUMB AND CIVIL DRAWINGS FOR LOCATION. STEP FOOTING AS REQUIRED IN ACCORDANCE WITH TYPICAL PIPE PENETRATION DETAIL AND TYPICAL WALL FOOTING STEP DETAIL.

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6 COLUMN FOOTING TO BE REINFORCED WITH #5 BARS @ 12" OC EW. DOWEL BARS INTO ADJACENT EXISTING FOOTINGS WITH HILTI HIT-HY 200 ADHESIVE (OR APPROVED EQ) AND MIN 6" EMBED

KEY PLAN



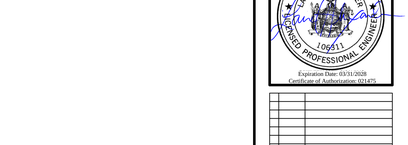
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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT



Expiration Date: 03/31/2026
Certificate of Authorization: 021475

NO.	DATE	DESCRIPTION

Drawn By:	SSB
Checked By:	LCA
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Construction Documents:	03/12/2026

Sheet Title
FOUNDATION/ SLAB PLAN - AREA 2

Sheet No.
TR S102

CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt

FOUNDATION LEGEND

F# (-#' - #")	F# - DENOTES FOOTING MARK (SEE FOOTING SCHEDULE) (#' - #") - DENOTES TOP OF FOOTING ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
P# (#' - #")	P# - DENOTES PIER MARK (SEE PIER SCHEDULE) (#' - #") - DENOTES TOP OF PIER ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
CW# MW#	CW# - DENOTES CONCRETE WALL MARK (SEE FOUNDATION WALL AND/OR WALL SCHEDULE) MW# - DENOTES MASONRY WALL MARK (SEE MASONRY WALL SCHEDULE)
WF#	WF# - DENOTES WALL FOOTING MARK (SEE WALL FOOTING SCHEDULE)
#'-#"	#' - #" - DENOTES TOP OF WALL FOOTING ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
[#'-#"]	#' - #" - DENOTES TOP OF WALL ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
SOG#	SOG# - DENOTES SLAB-ON-GRADE MARK (SEE SLAB-ON-GRADE SCHEDULE)
#'-#"	#' - #" - DENOTES TOP OF CONCRETE ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
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C.O.	CLEAN OUT (SEE MECH AND ARCH)
	DENOTES STEP IN SLAB
	DENOTES SLOPE IN SLAB
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FOUNDATION PLAN NOTES:

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FOUNDATION PLAN KEYNOTES

(#)

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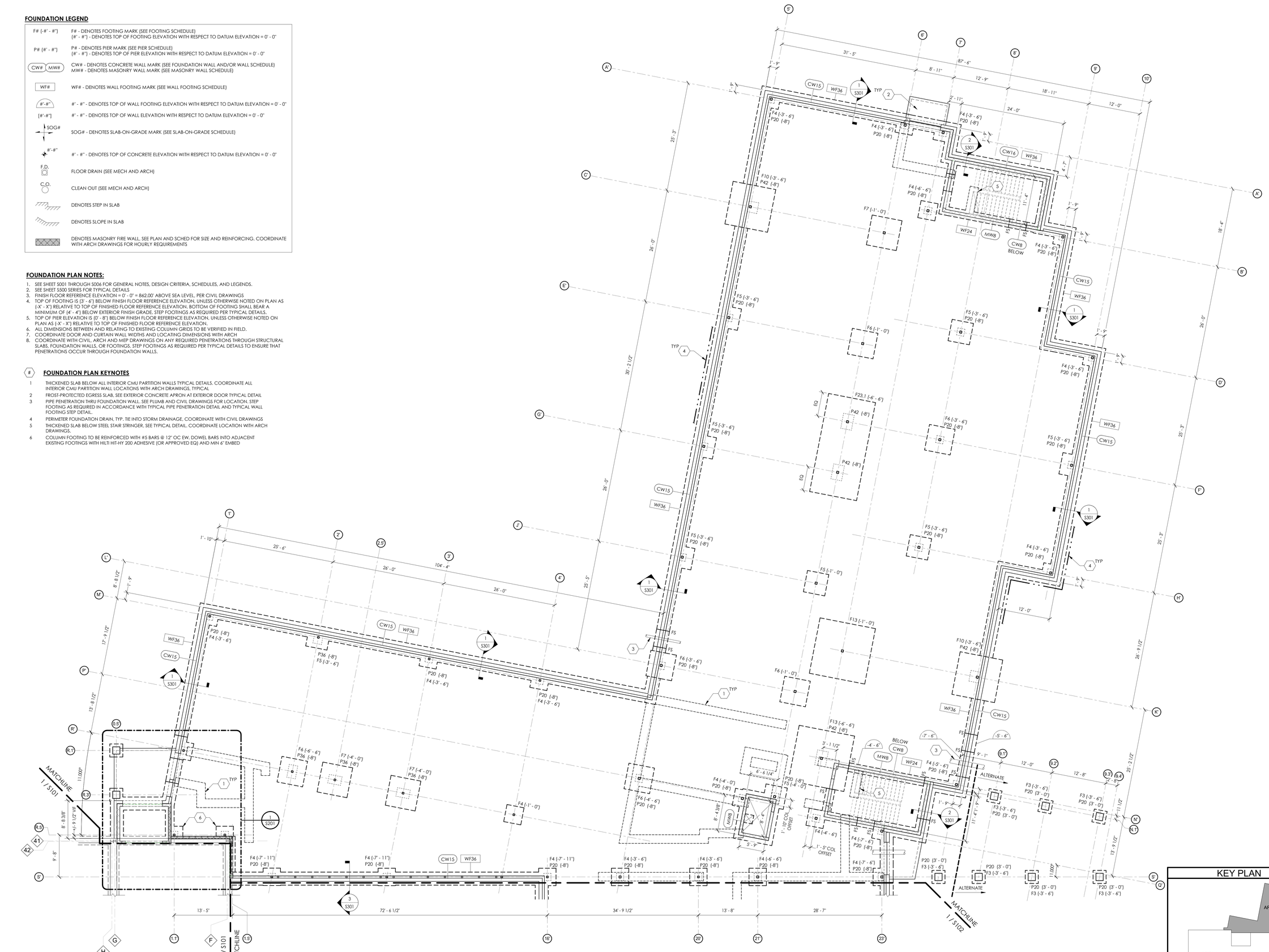
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4 PERIMETER FOUNDATION DRAIN, TYP. TIE INTO STORM DRAINAGE. COORDINATE WITH CIVIL DRAWINGS

5 THICKENED SLAB BELOW STEEL STAIR STRINGER, SEE TYPICAL DETAIL. COORDINATE LOCATION WITH ARCH DRAWINGS.

6 COLUMN FOOTING TO BE REINFORCED WITH #5 BARS @ 12" OC EW. DOWEL BARS INTO ADJACENT EXISTING FOOTINGS WITH HILTI HIT-HY 200 ADHESIVE (OR APPROVED EQ) AND MIN 6" EMBED

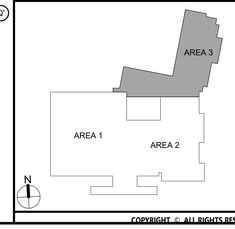


1 FOUNDATION / SLAB PLAN - AREA 3

0' 2' 4' 8' 16'

1/8" = 1'-0"

KEY PLAN



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Project Title

BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

LAURA C. ALEXANDER — STATE OF NEW YORK — 109511 — LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2026
Certificate of Authorization: 021475

#	DATE	DESCRIPTION

Drawn By:	SBS
Checked By:	LCA
Proj. #:	03-02-00-01-0-010-016
CSArch Proj. #:	215-2402
Construction Documents:	03/12/2026

Sheet Title
FOUNDATION/ SLAB PLAN - AREA 3

Sheet No.
TR S103

CONSTRUCTION DOCUMENTS

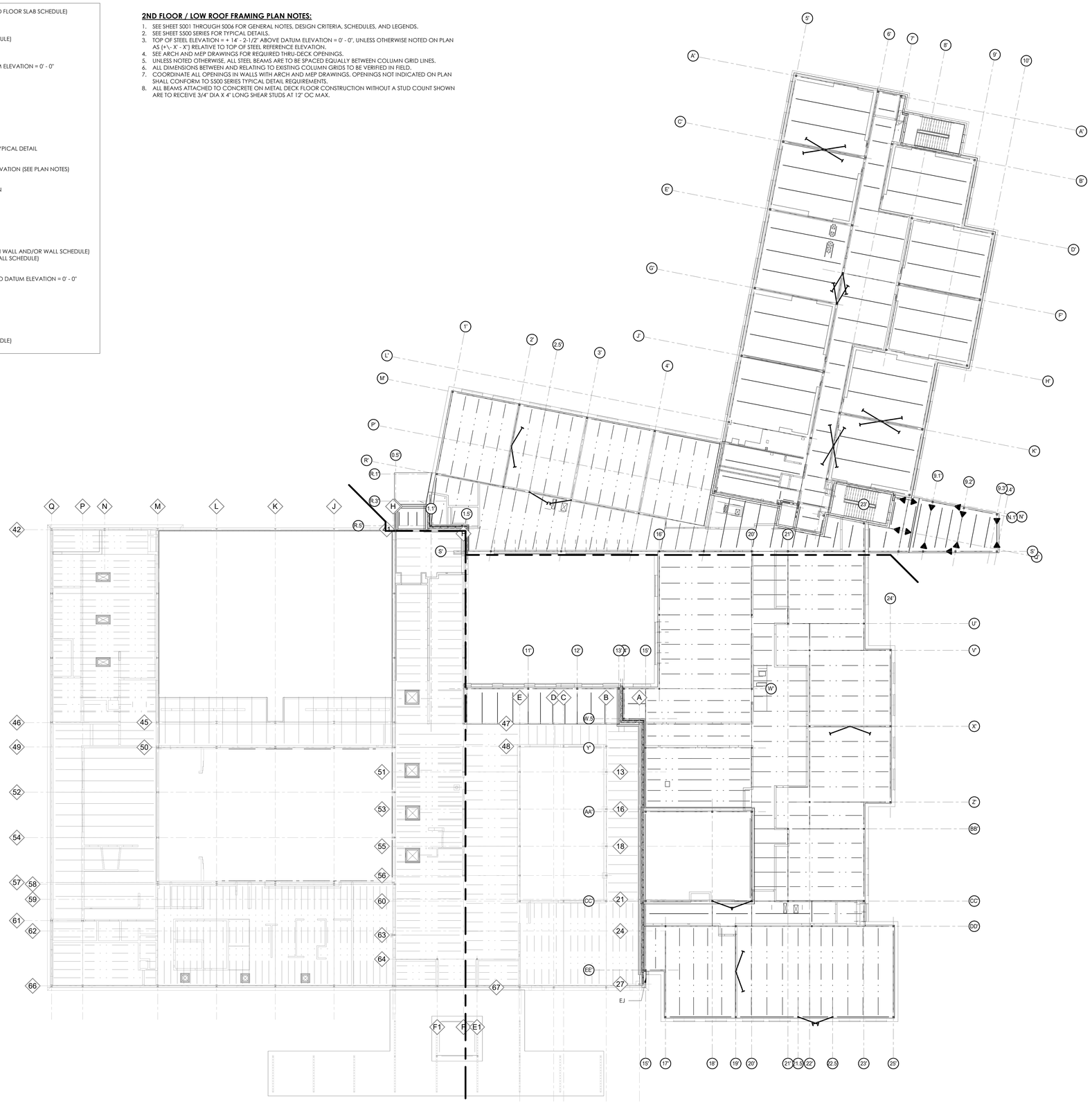
Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt

FRAMING LEGEND

FD#	FD# - DENOTES ELEVATED FLOOR SLAB MARK (SEE ELEVATED FLOOR SLAB SCHEDULE) ARROWS DENOTE SPAN DIRECTION
RD#	RD# - DENOTES ROOF DECK MARK (SEE ROOF DECK SCHEDULE) ARROWS DENOTE SPAN DIRECTION
#'-#"	#' - #" - DENOTES SPOT ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
	DENOTES MOMENT CONNECTION
	DENOTES ROLL BEAM CONNECTION, SEE TYPICAL DETAIL
	DENOTES BEAM SPLICE, SEE TYPICAL DETAIL
	DENOTES BEAM BEARING PLATE ON MASONRY WALL, SEE TYPICAL DETAIL
(#'-#")	DENOTES BEAM AT ELEVATION ABOVE OR BELOW PLAN ELEVATION (SEE PLAN NOTES)
(ABOVE/BELOW)	DENOTES BEAM ABOVE OR BELOW ANOTHER BEAM IN PLAN
F.D.	FLOOR DRAIN (SEE MECH AND ARCH)
C.O.	CLEAN OUT (SEE MECH AND ARCH)
CW# MW#	CW# - DENOTES CONCRETE WALL MARK (SEE FOUNDATION WALL AND/OR WALL SCHEDULE) MW# - DENOTES MASONRY WALL MARK (SEE MASONRY WALL SCHEDULE)
[#'-#"]	#' - #" - DENOTES TOP OF WALL ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
	DENOTES STEP IN SLAB
	DENOTES SLOPE IN SLAB
L#	L# - DENOTES MASONRY OR STEEL LINTEL (SEE LINTEL SCHEUDLE)

2ND FLOOR / LOW ROOF FRAMING PLAN NOTES:

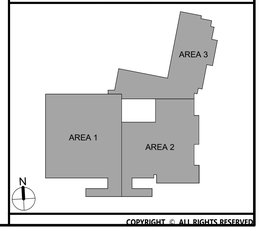
1. SEE SHEET S001 THROUGH S006 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS.
3. TOP OF STEEL ELEVATION = + 14' - 2-1/2" ABOVE DATUM ELEVATION = 0' - 0", UNLESS OTHERWISE NOTED ON PLAN AS (+\- X" - X") RELATIVE TO TOP OF STEEL REFERENCE ELEVATION.
4. SEE ARCH AND MEP DRAWINGS FOR REQUIRED THRU-DECK OPENINGS.
5. UNLESS NOTED OTHERWISE, ALL STEEL BEAMS ARE TO BE SPACED EQUALLY BETWEEN COLUMN GRID LINES.
6. ALL DIMENSIONS BETWEEN AND RELATING TO EXISTING COLUMN GRIDS TO BE VERIFIED IN FIELD.
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8. ALL BEAMS ATTACHED TO CONCRETE ON METAL DECK FLOOR CONSTRUCTION WITHOUT A STUD COUNT SHOWN ARE TO RECEIVE 3/4" DIA X 4" LONG SHEAR STUDS AT 12" OC MAX.



1 **OVERALL 2ND FLOOR / LOW ROOF FRAMING PLAN**

0' 4' 8' 16' 32'
1/16" = 1'-0"

KEY PLAN



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2024 CAPITAL PROJECT

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LAURA C. ALEXANDER
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Expiration Date: 03/31/2028
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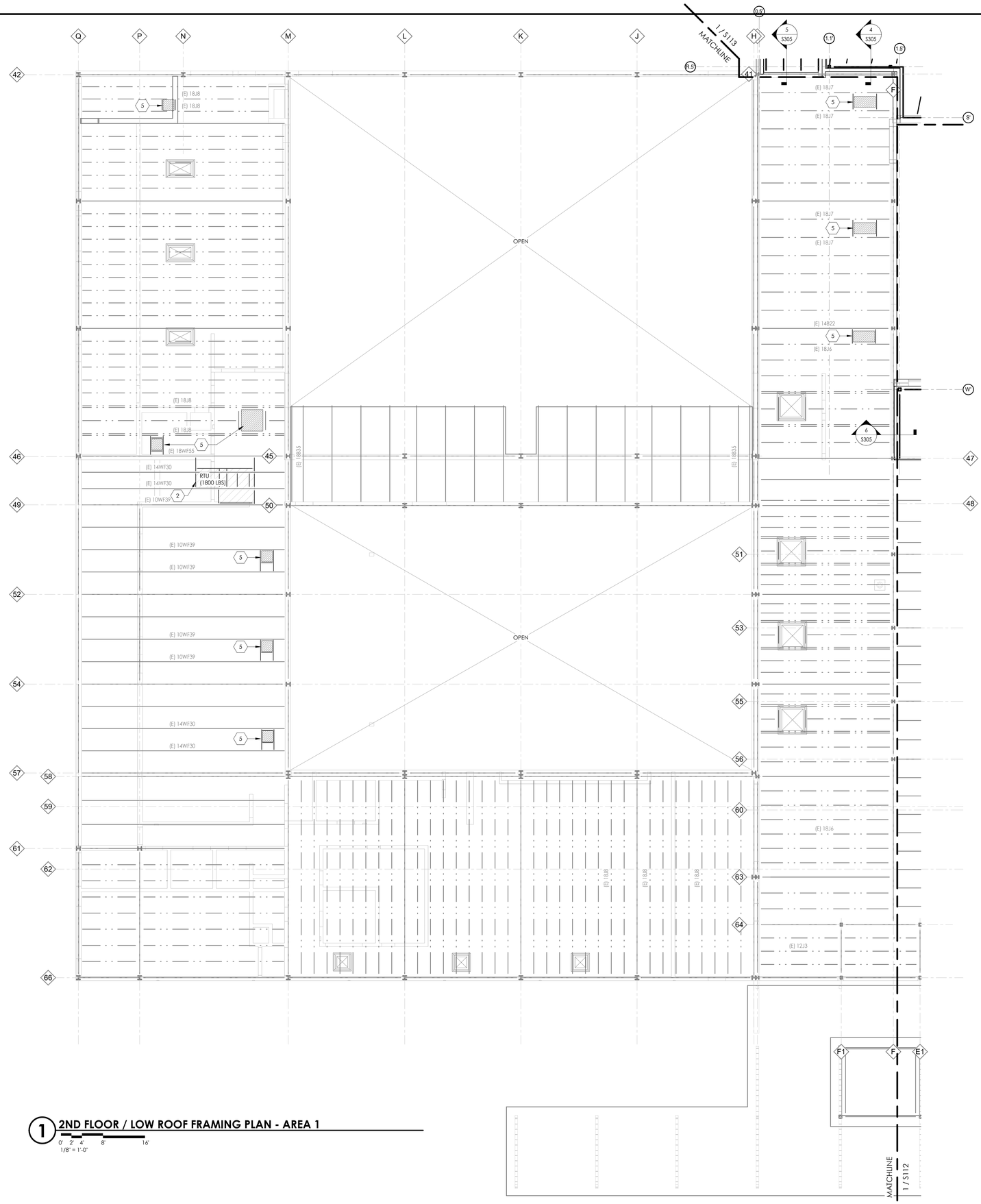
Drawn By:	SBK
Checked By:	CGA
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Construction Documents:	03/13/2026

Sheet Title
OVERALL 2ND FLOOR/ LOW ROOF FRAMING PLAN

Sheet No.
TR
S110

CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt



1 2ND FLOOR / LOW ROOF FRAMING PLAN - AREA 1

0' 2' 4' 8' 16'
1/8" = 1'-0"

FRAMING LEGEND

FD#	FD# - DENOTES ELEVATED FLOOR SLAB MARK (SEE ELEVATED FLOOR SLAB SCHEDULE) ARROWS DENOTE SPAN DIRECTION
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#'-#"	#' - #" - DENOTES SPOT ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
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	DENOTES BEAM SPLICE, SEE TYPICAL DETAIL
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(ABOVE/BELOW)	DENOTES BEAM ABOVE OR BELOW ANOTHER BEAM IN PLAN
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C.O.	CLEAN OUT (SEE MECH AND ARCH)
CW# MW#	CW# - DENOTES CONCRETE WALL MARK (SEE FOUNDATION WALL AND/OR WALL SCHEDULE) MW# - DENOTES MASONRY WALL MARK (SEE MASONRY WALL SCHEDULE)
[#'-#"]	#' - #" - DENOTES TOP OF WALL ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
	DENOTES STEP IN SLAB
	DENOTES SLOPE IN SLAB
L#	L# - DENOTES MASONRY OR STEEL LINTEL (SEE LINTEL SCHEUDLE)

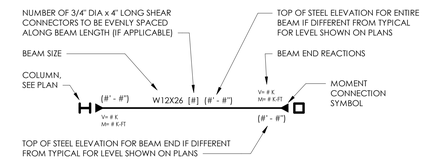
2ND FLOOR / LOW ROOF FRAMING PLAN NOTES:

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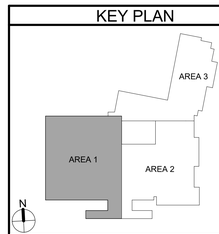
(#) SECOND FLOOR/LOW ROOF FRAMING PLAN KEYNOTES

1 PROVIDE 5" JOIST SEAT THIS END OF K SERIES JOIST
2 L6x4x3/8 (LLV) SUBFRAMING BELOW RTU COORDINATE LOCATIONS/EXTENTS WITH FINAL SELECTED EQUIPMENT MANUFACTURER, SEE TYPICAL DETAIL
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8 PROVIDE 50% (MAXIMUM) OF TYPICAL SJI REQUIRED CAMBER ON ALL JOISTS ADJACENT TO BEAMS
9 EXPANSION JOINTS, SEE ARCH, MINMUM 1" SEPARATION ON EACH SIDE OF MASONRY FIREWALL, TYP

BEAM LEGEND



KEY PLAN



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THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK
LAURA C. ALEXANDER
105511
LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2028
Certificate of Authorization: 021475

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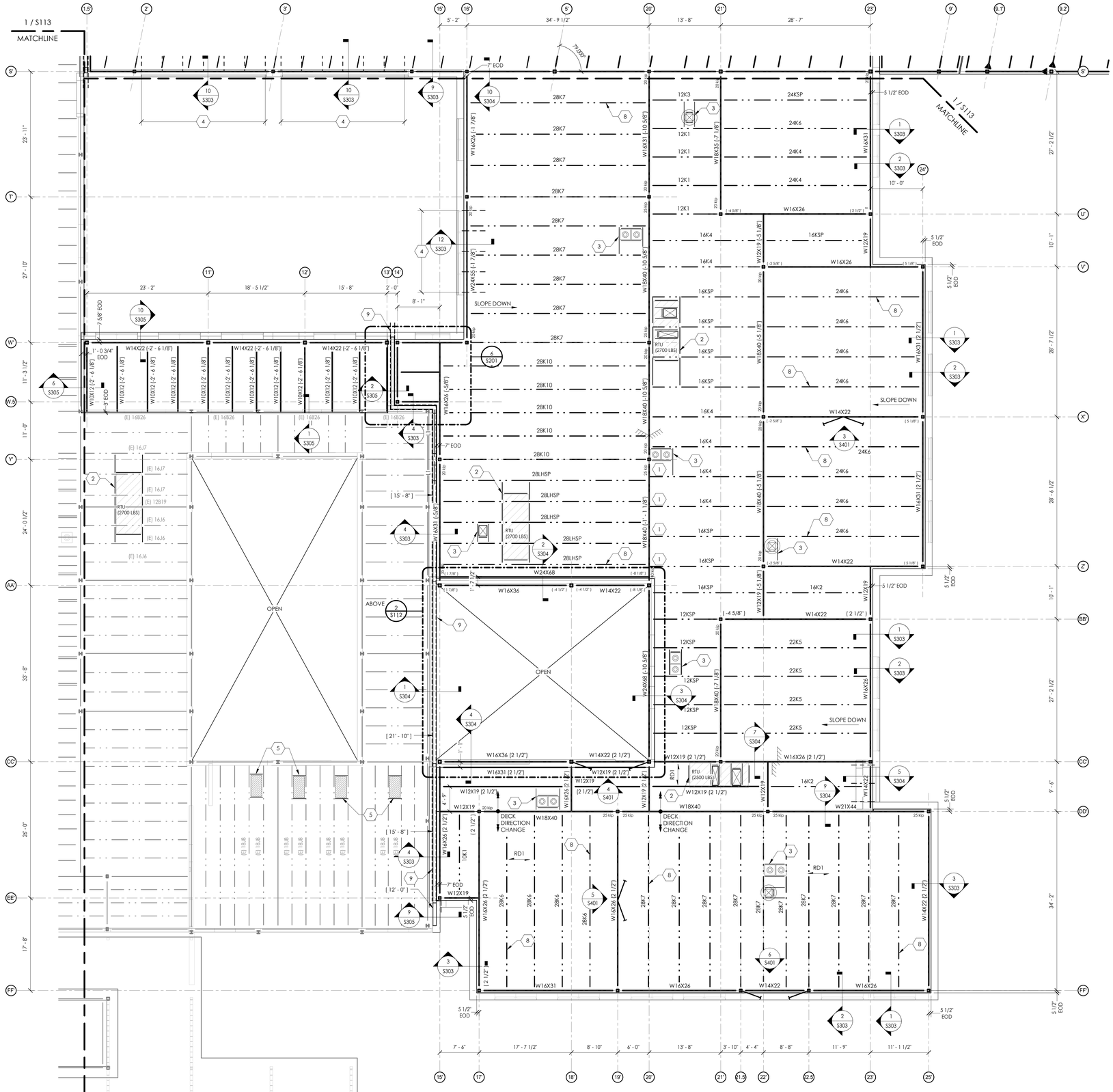
Drawn By:	SRR
Checked By:	LCA
Proj. #:	03-02-00-01-0-010-016
CSArch Proj. #:	215-2402
Construction Documents:	03/12/2026

Sheet Title
2ND FLOOR/ LOW ROOF FRAMING PLAN - AREA 1

Sheet No.
TR
S111

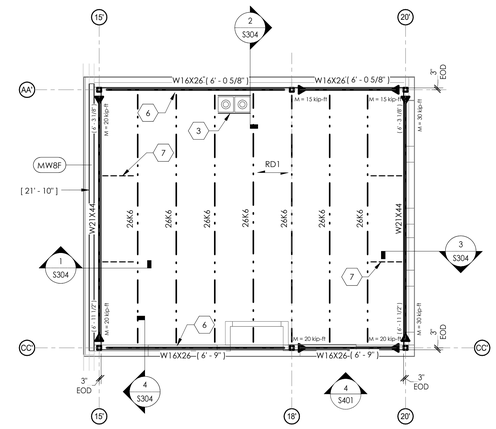
CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt



1 2ND FLOOR / LOW ROOF FRAMING PLAN - AREA 2

0' 2' 4' 8' 16'
1/8" = 1'-0"



2 LIBRARY ROOF FRAMING PLAN - AREA 2

0' 2' 4' 8' 16'
1/8" = 1'-0"

FRAMING LEGEND

FD#	FD# - DENOTES ELEVATED FLOOR SLAB MARK (SEE ELEVATED FLOOR SLAB SCHEDULE) ARROWS DENOTE SPAN DIRECTION
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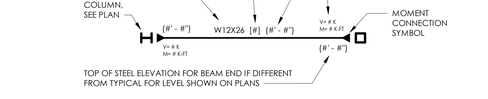
2ND FLOOR / LOW ROOF FRAMING PLAN NOTES:

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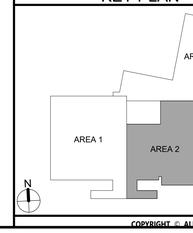
(#) SECOND FLOOR/LOW ROOF FRAMING PLAN KEYNOTES

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2 L6x4x3/8 (LLV) SUBFRAMING BELOW RTU COORDINATE LOCATIONS/EXTENTS WITH FINAL SELECTED EQUIPMENT MANUFACTURER. SEE TYPICAL DETAIL
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9 EXPANSION JOINTS, SEE ARCH. MINIMUM 1" SEPARATION ON EACH SIDE OF MASONRY FIREWALL, TYP

BEAM LEGEND



KEY PLAN



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LAURA C. ALEXANDER
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LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2026
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Construction Documents: 03/12/2026

Sheet Title
2ND FLOOR/ LOW ROOF FRAMING PLAN - AREA 2

Sheet No.
TR
S112

CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt

FRAMING LEGEND

FD#	FD# - DENOTES ELEVATED FLOOR SLAB MARK (SEE ELEVATED FLOOR SLAB SCHEDULE) ARROWS DENOTE SPAN DIRECTION
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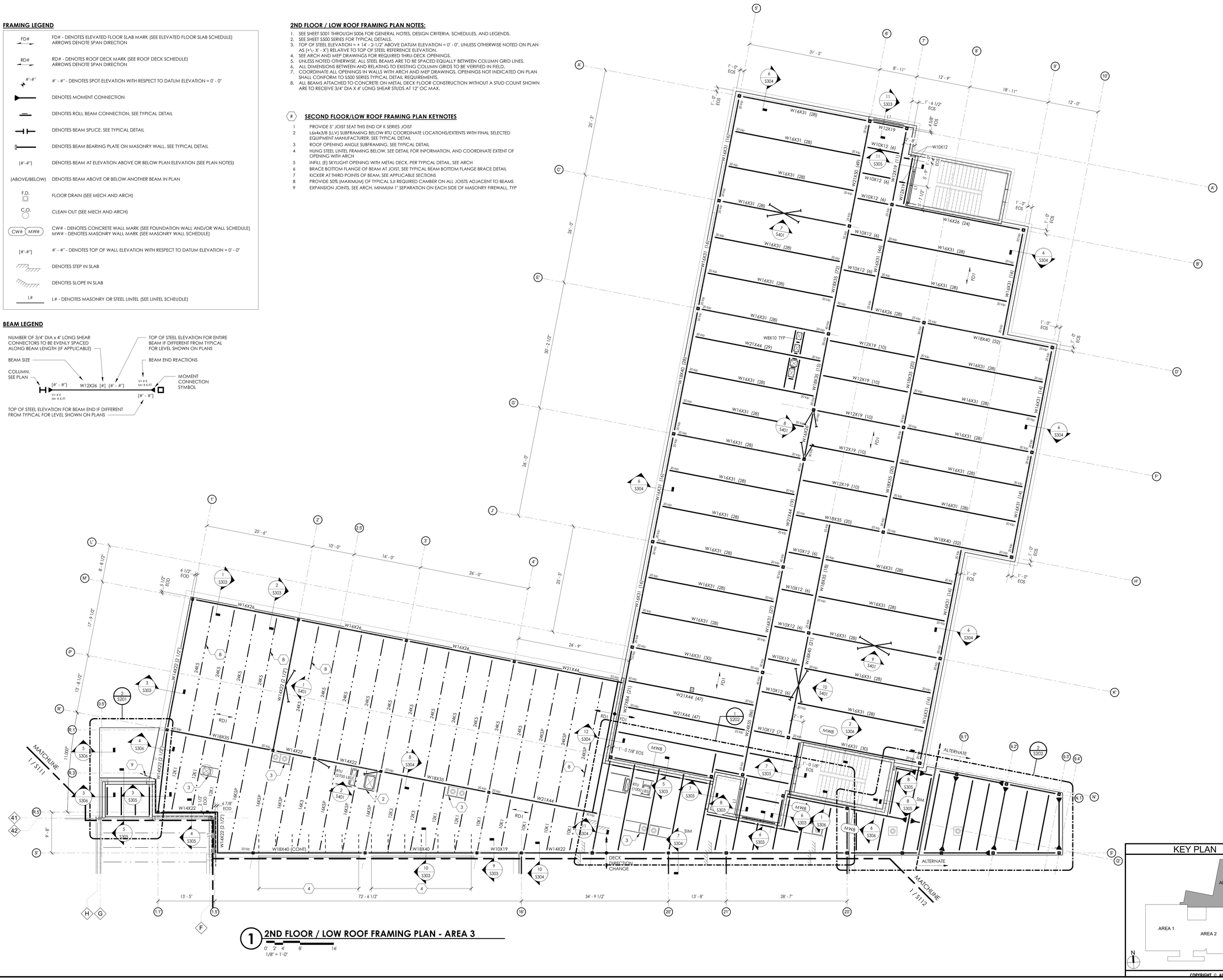
BEAM LEGEND

2ND FLOOR / LOW ROOF FRAMING PLAN NOTES:

1. SEE SHEET S001 THROUGH S006 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
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SECOND FLOOR/LOW ROOF FRAMING PLAN KEYNOTES

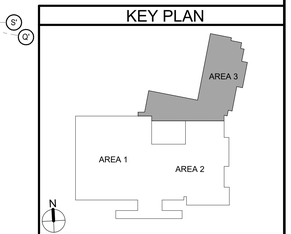
#	
1	PROVIDE 5" JOIST SEAT THIS END OF K SERIES JOIST
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1 2ND FLOOR / LOW ROOF FRAMING PLAN - AREA 3

0' 2' 4' 8' 16'
1/8" = 1'-0"

KEY PLAN



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Sheet Title
2ND FLOOR/ LOW ROOF FRAMING PLAN - AREA 3

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TR S113

CONSTRUCTION DOCUMENTS

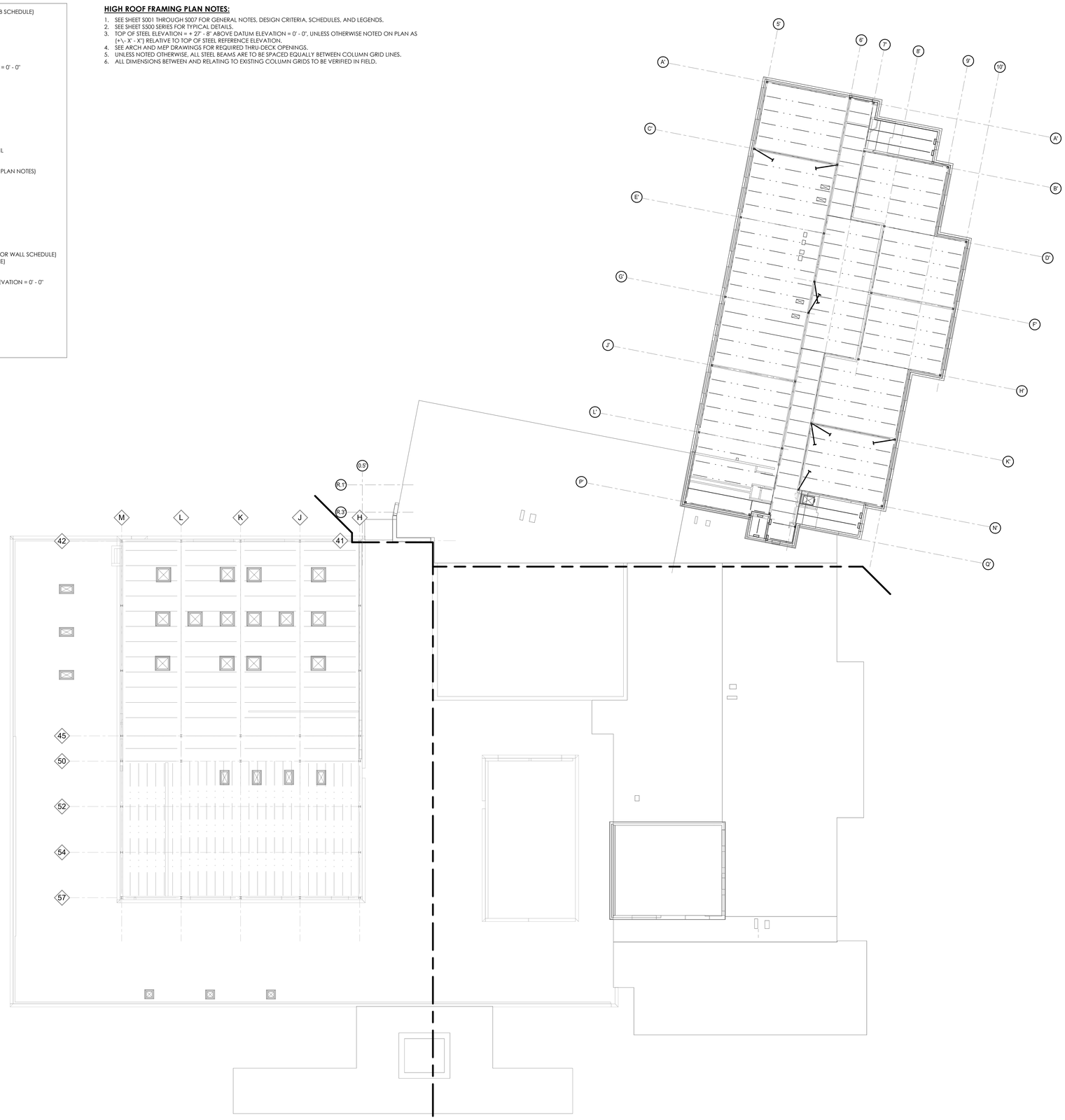
Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt

FRAMING LEGEND

FD#	FD# - DENOTES ELEVATED FLOOR SLAB MARK (SEE ELEVATED FLOOR SLAB SCHEDULE) ARROWS DENOTE SPAN DIRECTION
RD#	RD# - DENOTES ROOF DECK MARK (SEE ROOF DECK SCHEDULE) ARROWS DENOTE SPAN DIRECTION
#'-#"	#' - #" - DENOTES SPOT ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
	DENOTES MOMENT CONNECTION
	DENOTES ROLL BEAM CONNECTION, SEE TYPICAL DETAIL
	DENOTES BEAM SPLICE, SEE TYPICAL DETAIL
	DENOTES BEAM BEARING PLATE ON MASONRY WALL, SEE TYPICAL DETAIL
(#'-#")	DENOTES BEAM AT ELEVATION ABOVE OR BELOW PLAN ELEVATION (SEE PLAN NOTES)
(ABOVE/BELOW)	DENOTES BEAM ABOVE OR BELOW ANOTHER BEAM IN PLAN
F.D.	FLOOR DRAIN (SEE MECH AND ARCH)
C.O.	CLEAN OUT (SEE MECH AND ARCH)
CW# MW#	CW# - DENOTES CONCRETE WALL MARK (SEE FOUNDATION WALL AND/OR WALL SCHEDULE) MW# - DENOTES MASONRY WALL MARK (SEE MASONRY WALL SCHEDULE)
[#'-#"]	#' - #" - DENOTES TOP OF WALL ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
	DENOTES STEP IN SLAB
	DENOTES SLOPE IN SLAB
L#	L# - DENOTES MASONRY OR STEEL LINTEL (SEE LINTEL SCHEUDLE)

HIGH ROOF FRAMING PLAN NOTES:

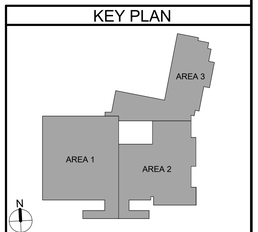
1. SEE SHEET S001 THROUGH S007 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS.
3. TOP OF STEEL ELEVATION = + 27' - 8" ABOVE DATUM ELEVATION = 0' - 0", UNLESS OTHERWISE NOTED ON PLAN AS (+\- X' - X") RELATIVE TO TOP OF STEEL REFERENCE ELEVATION.
4. SEE ARCH AND MEP DRAWINGS FOR REQUIRED THRU-DECK OPENINGS.
5. UNLESS NOTED OTHERWISE, ALL STEEL BEAMS ARE TO BE SPACED EQUALLY BETWEEN COLUMN GRID LINES.
6. ALL DIMENSIONS BETWEEN AND RELATING TO EXISTING COLUMN GRIDS TO BE VERIFIED IN FIELD.



1 OVERALL HIGH ROOF FRAMING PLAN

0' 4' 8' 16' 32'
1/16" = 1'-0"

KEY PLAN



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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK
LAURA C. ALEXANDER
100511
LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2028
Certificate of Authorization: 021475

NO.	DATE	DESCRIPTION

Drawn By:	SDG
Checked By:	LCA
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Construction Documents:	03/12/2026

Sheet Title
OVERALL HIGH ROOF FRAMING PLAN

Sheet No.
TR S120

CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt

FRAMING LEGEND

FD#	FD# - DENOTES ELEVATED FLOOR SLAB MARK (SEE ELEVATED FLOOR SLAB SCHEDULE) ARROWS DENOTE SPAN DIRECTION
RD#	RD# - DENOTES ROOF DECK MARK (SEE ROOF DECK SCHEDULE) ARROWS DENOTE SPAN DIRECTION
#'-#"	#' - #" - DENOTES SPOT ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
	DENOTES MOMENT CONNECTION
	DENOTES ROLL BEAM CONNECTION, SEE TYPICAL DETAIL
	DENOTES BEAM SPLICE, SEE TYPICAL DETAIL
	DENOTES BEAM BEARING PLATE ON MASONRY WALL, SEE TYPICAL DETAIL
(#'-#")	DENOTES BEAM AT ELEVATION ABOVE OR BELOW PLAN ELEVATION (SEE PLAN NOTES)
(ABOVE/BELOW)	DENOTES BEAM ABOVE OR BELOW ANOTHER BEAM IN PLAN
F.D.	FLOOR DRAIN (SEE MECH AND ARCH)
C.O.	CLEAN OUT (SEE MECH AND ARCH)
CW# MW#	CW# - DENOTES CONCRETE WALL MARK (SEE FOUNDATION WALL AND/OR WALL SCHEDULE) MW# - DENOTES MASONRY WALL MARK (SEE MASONRY WALL SCHEDULE)
[#'-#"]	#' - #" - DENOTES TOP OF WALL ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
	DENOTES STEP IN SLAB
	DENOTES SLOPE IN SLAB
L#	L# - DENOTES MASONRY OR STEEL LINTEL (SEE LINTEL SCHEUDLE)

HIGH ROOF FRAMING PLAN NOTES:

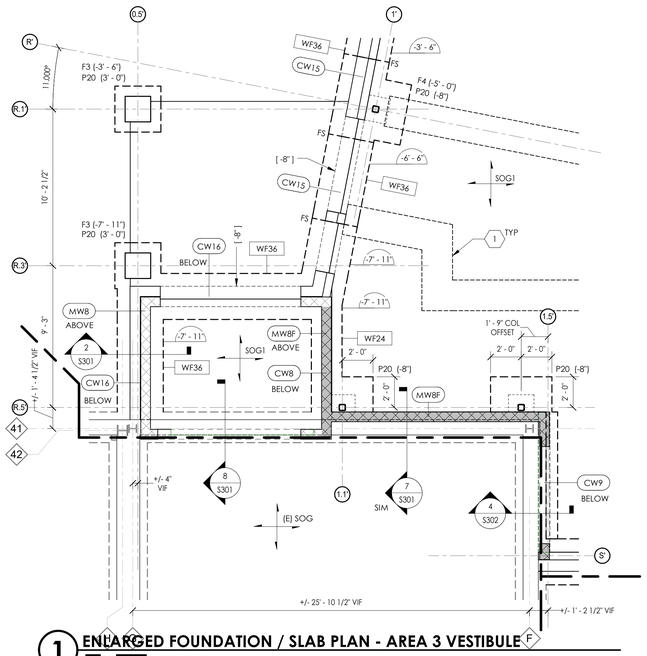
1. SEE SHEET S001 THROUGH S007 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS.
3. TOP OF STEEL ELEVATION = + 27' - 8" ABOVE DATUM ELEVATION = 0' - 0", UNLESS OTHERWISE NOTED ON PLAN AS (+\- X' - X") RELATIVE TO TOP OF STEEL REFERENCE ELEVATION.
4. SEE ARCH AND MEP DRAWINGS FOR REQUIRED THRU-DECK OPENINGS.
5. UNLESS NOTED OTHERWISE, ALL STEEL BEAMS ARE TO BE SPACED EQUALLY BETWEEN COLUMN GRID LINES.
6. ALL DIMENSIONS BETWEEN AND RELATING TO EXISTING COLUMN GRIDS TO BE VERIFIED IN FIELD.

HIGH ROOF FRAMING PLAN KEYNOTES

#	
1	L6x4x3/8 (LLV) SUBFRAMING BELOW RTU COORDINATE LOCATIONS/EXTENTS WITH FINAL SELECTED EQUIPMENT MANUFACTURER
2	ROOF OPENING ANGLE SUBFRAMING, SEE TYPICAL DETAIL
4	PROVIDE 50% (MAXIMUM) OF TYPICAL SJI REQUIRED CAMBER ON ALL JOISTS ADJACENT TO BEAMS

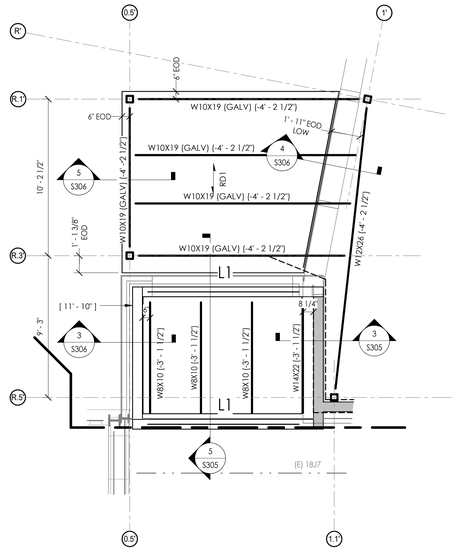
BEAM LEGEND


LOW ROOF BELOW
16B3 (D7)
W12X19
W16X26 (17.7#)
W16X26 (17.7#)
W16X26 (17.7#)
W16X26 (17.7#)
W16X26 (10.3#)
W16X26 (10.3#)
W16X31
W16X31 (2.1#)
W16X31 (2.1#)
W16X31
W18X35
W18X35 (5.1/2")
W18X35 (5.1/2")
W18X35
W12X40
W14X22
W16X26
W16X26
W16X26
W16X26
W16X26 (10.3#)
W16X26 (10.3#)
W16X26 (10.3#)



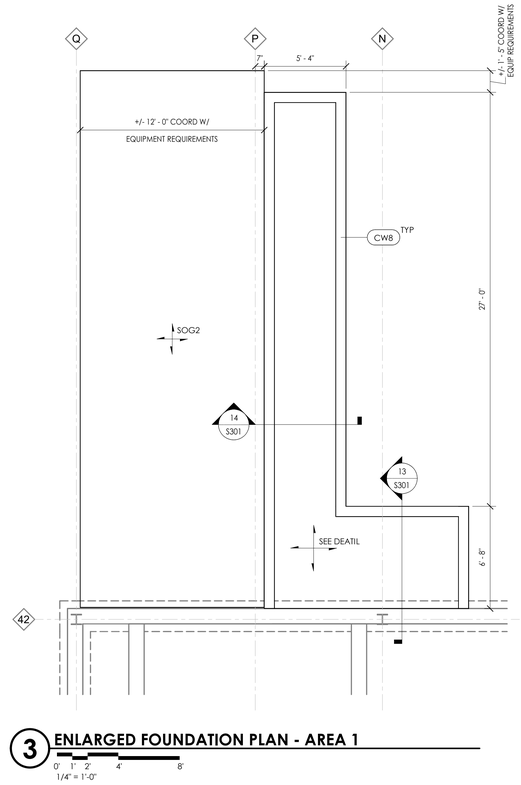
1 ENLARGED FOUNDATION / SLAB PLAN - AREA 3 VESTIBULE

1/4" = 1'-0"



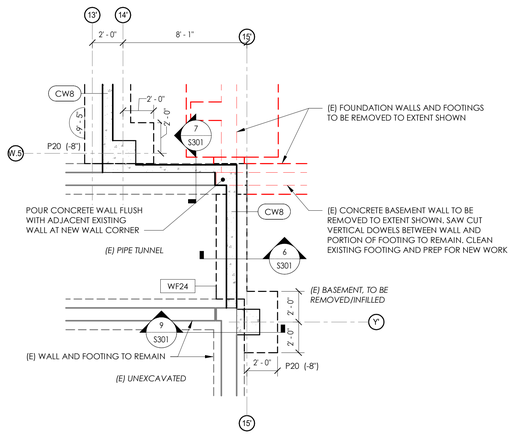
2 ENLARGED 2ND FLOOR / LOW ROOF FRAMING PLAN - AREA 3 VESTIBULE

1/4" = 1'-0"



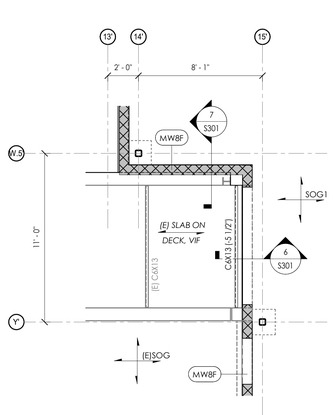
3 ENLARGED FOUNDATION PLAN - AREA 1

1/4" = 1'-0"



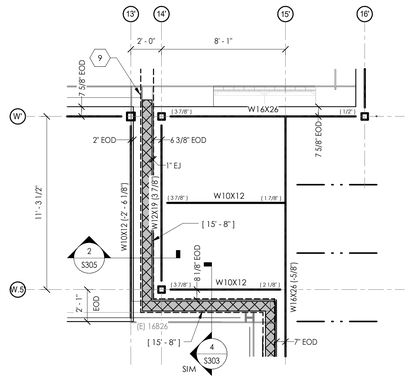
4 ENLARGED FOUNDATION PLAN - AREA 2

1/4" = 1'-0"



5 ENLARGED SLAB/FRAMING PLAN - AREA 2

1/4" = 1'-0"



6 ENLARGED LOW ROOF FRAMING PLAN - AREA 2

1/4" = 1'-0"

FOUNDATION PLAN NOTES:

1. SEE SHEET S001 THROUGH S006 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS
3. FINISH FLOOR REFERENCE ELEVATION = 0' - 0" = 862.00' ABOVE SEA LEVEL, PER CIVIL DRAWINGS
4. TOP OF FOOTING IS [3' - 4"] BELOW FINISH FLOOR REFERENCE ELEVATION, UNLESS OTHERWISE NOTED ON PLAN AS [-X' - X"] RELATIVE TO TOP OF FINISHED FLOOR REFERENCE ELEVATION. BOTTOM OF FOOTING SHALL BEAR A MINIMUM OF [4' - 4"] BELOW EXTERIOR FINISH GRADE. STEP FOOTINGS AS REQUIRED PER TYPICAL DETAILS.
5. TOP OF PIER ELEVATION IS [0' - 8"] BELOW FINISH FLOOR REFERENCE ELEVATION, UNLESS OTHERWISE NOTED ON PLAN AS [-X' - X"] RELATIVE TO TOP OF FINISHED FLOOR REFERENCE ELEVATION.
6. ALL DIMENSIONS BETWEEN AND RELATING TO EXISTING COLUMN GRIDS TO BE VERIFIED IN FIELD.
7. COORDINATE DOOR AND CURTAIN WALL WIDTHS AND LOCATING DIMENSIONS WITH ARCH
8. COORDINATE WITH CIVIL ARCH AND MEP DRAWINGS ON ANY REQUIRED PENETRATIONS THROUGH STRUCTURAL SLABS, FOUNDATION WALLS, OR FOOTINGS. STEP FOOTINGS AS REQUIRED PER TYPICAL DETAILS TO ENSURE THAT PENETRATIONS OCCUR THROUGH FOUNDATION WALLS.

FOUNDATION PLAN KEYNOTES

#	
1	THICKENED SLAB BELOW ALL INTERIOR CMU PARTITION WALLS TYPICAL DETAILS. COORDINATE ALL INTERIOR CMU PARTITION WALL LOCATIONS WITH ARCH DRAWINGS, TYPICAL
2	FROST-PROTECTED EGRESS SLAB. SEE EXTERIOR CONCRETE APRON AT EXTERIOR DOOR TYPICAL DETAIL
3	PIPE PENETRATION THRU FOUNDATION WALL. SEE PLUMB AND CIVIL DRAWINGS FOR LOCATION. STEP FOOTING AS REQUIRED IN ACCORDANCE WITH TYPICAL PIPE PENETRATION DETAIL AND TYPICAL WALL FOOTING STEP DETAIL.
4	PERIMETER FOUNDATION DRAIN, TYP. TIE INTO STORM DRAINAGE. COORDINATE WITH CIVIL DRAWINGS
5	THICKENED SLAB BELOW STEEL STAIR STRINGER; SEE TYPICAL DETAIL. COORDINATE LOCATION WITH ARCH DRAWINGS.
6	COLUMN FOOTING TO BE REINFORCED WITH #5 BARS @ 12" OC EW. DOWEL BARS INTO ADJACENT EXISTING FOOTINGS WITH HILTI HIT-HY 200 ADHESIVE (OR APPROVED EQ) AND MIN 6" EMBED

2ND FLOOR / LOW ROOF FRAMING PLAN NOTES:

1. SEE SHEET S001 THROUGH S006 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS.
3. TOP OF STEEL ELEVATION = + 14' - 2-1/2" ABOVE DATUM ELEVATION = 0' - 0", UNLESS OTHERWISE NOTED ON PLAN AS [+\- X' - X"] RELATIVE TO TOP OF STEEL REFERENCE ELEVATION.
4. SEE ARCH AND MEP DRAWINGS FOR REQUIRED THRU-DECK OPENINGS.
5. UNLESS NOTED OTHERWISE, ALL STEEL BEAMS ARE TO BE SPACED EQUALLY BETWEEN COLUMN GRID LINES.
6. ALL DIMENSIONS BETWEEN AND RELATING TO EXISTING COLUMN GRIDS TO BE VERIFIED IN FIELD.
7. COORDINATE ALL OPENINGS IN WALLS WITH ARCH AND MEP DRAWINGS. OPENINGS NOT INDICATED ON PLAN SHALL CONFORM TO S500 SERIES TYPICAL DETAIL REQUIREMENTS.
8. ALL BEAMS ATTACHED TO CONCRETE ON METAL DECK FLOOR CONSTRUCTION WITHOUT A STUD COUNT SHOWN ARE TO RECEIVE 3/4" DIA X 4" LONG SHEAR STUDS AT 12" OC MAX.

SECOND FLOOR/LOW ROOF FRAMING PLAN KEYNOTES

#	
1	PROVIDE 5" JOIST SEAT THIS END OF K SERIES JOIST
2	L6x4x3/8 (LLV) SUBFRAMING BELOW RTU COORDINATE LOCATIONS/EXTENTS WITH FINAL SELECTED EQUIPMENT MANUFACTURER. SEE TYPICAL DETAIL
3	ROOF OPENING ANGLE SUBFRAMING. SEE TYPICAL DETAIL
4	HUNG STEEL LINTEL FRAMING BELOW. SEE DETAIL FOR INFORMATION, AND COORDINATE EXTENT OF OPENING WITH ARCH
5	INFILL (E) SKYLIGHT OPENING WITH METAL DECK, PER TYPICAL DETAIL, SEE ARCH
6	BRACE BOTTOM FLANGE OF BEAM AT JOIST, SEE TYPICAL BEAM BOTTOM FLANGE BRACE DETAIL
7	KICKER AT THIRD POINTS OF BEAM, SEE APPLICABLE SECTIONS
8	PROVIDE 50% (MAXIMUM) OF TYPICAL SJI REQUIRED CAMBER ON ALL JOISTS ADJACENT TO BEAMS
9	EXPANSION JOINTS, SEE ARCH, MINMUM 1" SEPARATION ON EACH SIDE OF MASONRY FIREWALL, TYP

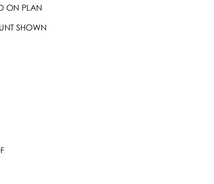
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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT



Expiration Date: 03/31/2028
Certificate of Authorization: 021475

NO.	DATE	DESCRIPTION

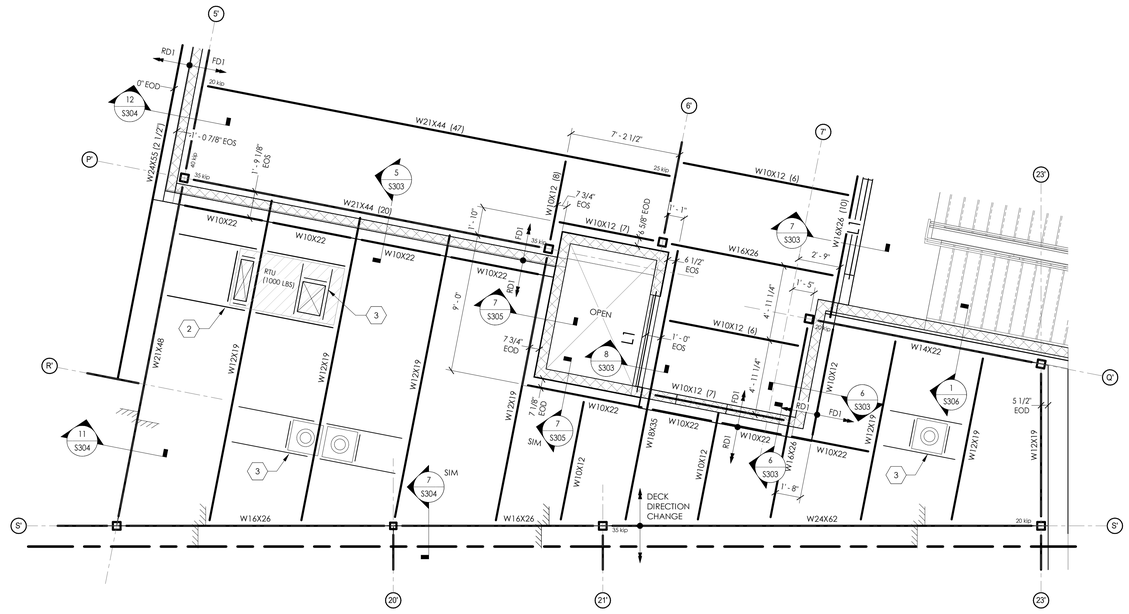
Drawn By:	SDO
Checked By:	LCA
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Construction Documents:	03/12/2026

Sheet Title
PARTIAL PLANS AND DETAILS

Sheet No.
TR S201

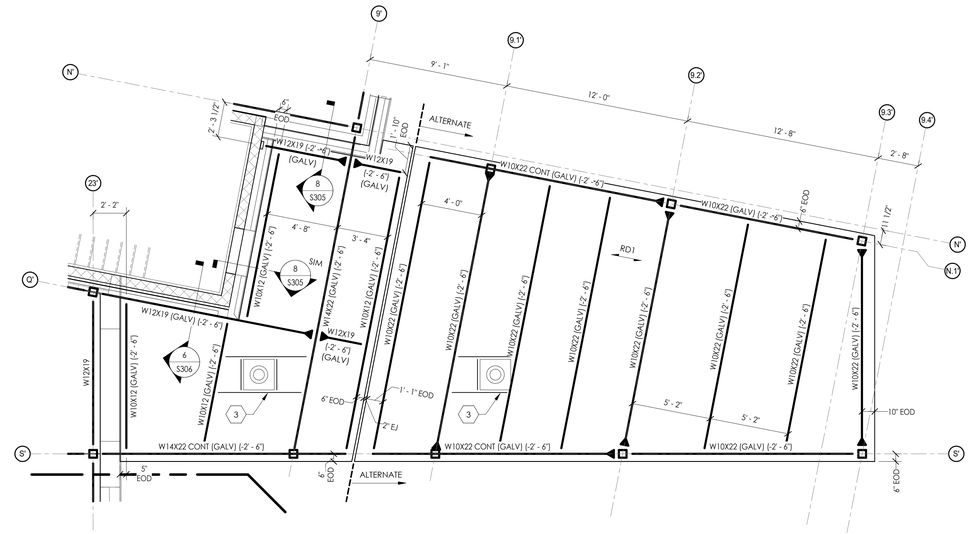
CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt



1 ENLARGED 2ND FLOOR / LOW ROOF FRAMING PLAN - AREA 3 ELEVATOR

1/4" = 1'-0"



2 ENLARGED 2ND FLOOR / LOW ROOF FRAMING PLAN - AREA 3 CANOPY (ADD-ALTERNATE)

1/4" = 1'-0"

3 ENLARGED HIGH ROOF FRAMING PLAN - AREA 3 ELEVATOR

1/4" = 1'-0"

2ND FLOOR / LOW ROOF FRAMING PLAN NOTES:

1. SEE SHEET S001 THROUGH S006 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS.
3. TOP OF STEEL ELEVATION = + 14' - 2-1/2" ABOVE DATUM ELEVATION = 0' - 0", UNLESS OTHERWISE NOTED ON PLAN AS (+\- X' - X") RELATIVE TO TOP OF STEEL REFERENCE ELEVATION.
4. SEE ARCH AND MEP DRAWINGS FOR REQUIRED THRU-DECK OPENINGS.
5. UNLESS NOTED OTHERWISE, ALL STEEL BEAMS ARE TO BE SPACED EQUALLY BETWEEN COLUMN GRID LINES.
6. ALL DIMENSIONS BETWEEN AND RELATING TO EXISTING COLUMN GRIDS TO BE VERIFIED IN FIELD.
7. COORDINATE ALL OPENINGS IN WALLS WITH ARCH AND MEP DRAWINGS. OPENINGS NOT INDICATED ON PLAN SHALL CONFORM TO S500 SERIES TYPICAL DETAIL REQUIREMENTS.
8. ALL BEAMS ATTACHED TO CONCRETE ON METAL DECK FLOOR CONSTRUCTION WITHOUT A STUD COUNT SHOWN ARE TO RECEIVE 3/4" DIA X 4" LONG SHEAR STUDS AT 12" OC MAX.

SECOND FLOOR/LOW ROOF FRAMING PLAN KEYNOTES

1 PROVIDE 5" JOIST SEAT THIS END OF K SERIES JOIST
2 L6x4x3/8 (LLV) SUBFRAMING BELOW RTU COORDINATE LOCATIONS/EXTENTS WITH FINAL SELECTED EQUIPMENT MANUFACTURER, SEE TYPICAL DETAIL
3 ROOF OPENING ANGLE SUBFRAMING, SEE TYPICAL DETAIL
4 HUNG STEEL LINTEL FRAMING BELOW. SEE DETAIL FOR INFORMATION, AND COORDINATE EXTENT OF OPENING WITH ARCH
5 INFILL (E) SKYLIGHT OPENING WITH METAL DECK, PER TYPICAL DETAIL, SEE ARCH
6 BRACE BOTTOM FLANGE OF BEAM AT JOIST. SEE TYPICAL BEAM BOTTOM FLANGE BRACE DETAIL
7 KICKER AT THIRD POINTS OF BEAM, SEE APPLICABLE SECTIONS
8 PROVIDE 50% (MAXIMUM) OF TYPICAL SJI REQUIRED CAMBER ON ALL JOISTS ADJACENT TO BEAMS
9 EXPANSION JOINTS, SEE ARCH. MINMUM 1" SEPARATION ON EACH SIDE OF MASONRY FIREWALL, TYP

HIGH ROOF FRAMING PLAN NOTES:

1. SEE SHEET S001 THROUGH S007 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS.
3. TOP OF STEEL ELEVATION = + 27' - 8" ABOVE DATUM ELEVATION = 0' - 0", UNLESS OTHERWISE NOTED ON PLAN AS (+\- X' - X") RELATIVE TO TOP OF STEEL REFERENCE ELEVATION.
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HIGH ROOF FRAMING PLAN KEYNOTES

1 L6x4x3/8 (LLV) SUBFRAMING BELOW RTU COORDINATE LOCATIONS/EXTENTS WITH FINAL SELECTED EQUIPMENT MANUFACTURER
2 ROOF OPENING ANGLE SUBFRAMING, SEE TYPICAL DETAIL
4 PROVIDE 50% (MAXIMUM) OF TYPICAL SJI REQUIRED CAMBER ON ALL JOISTS ADJACENT TO BEAMS

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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK
LAURA C. ALEXANDER
105511
LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2026
Certificate of Authorization: 021475

#	DATE	DESCRIPTION

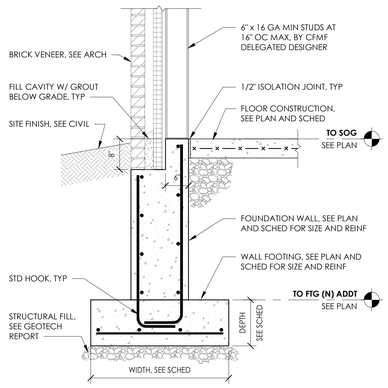
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Checked By: LCA
Proj. #: 03-02-00-01-0-010-016
CSArch Proj. #: 215-2402
Construction Documents: 03/12/2026

Sheet Title
PARTIAL PLANS AND DETAILS

Sheet No.
TR S202

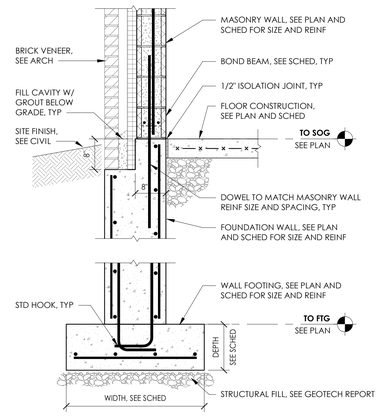
CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt



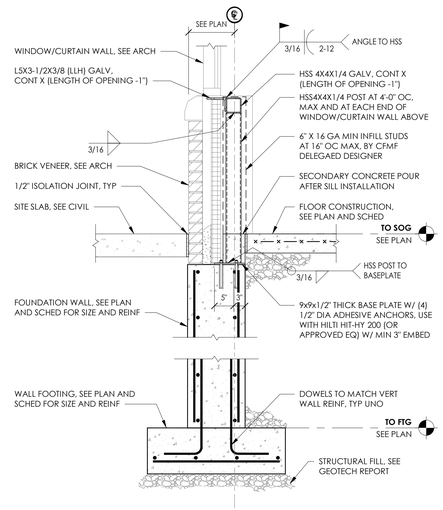
1 FOUNDATION SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



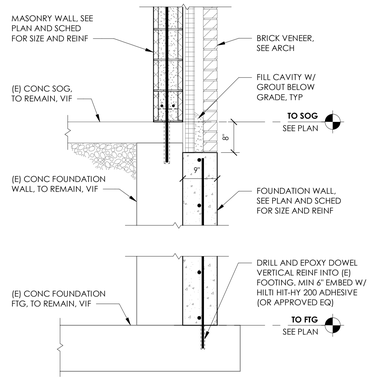
2 FOUNDATION SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



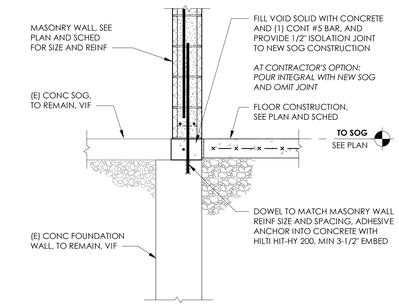
3 FOUNDATION SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



4 FOUNDATION SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



5 FOUNDATION SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"

6 FOUNDATION SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"

7 FOUNDATION SECTION

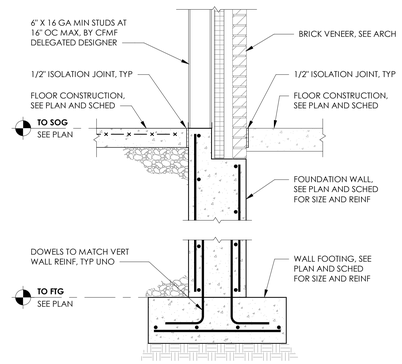
0" 6" 1' 2' 4'
3/4" = 1'-0"

8 FOUNDATION SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"

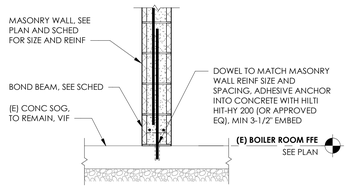
9 FOUNDATION SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



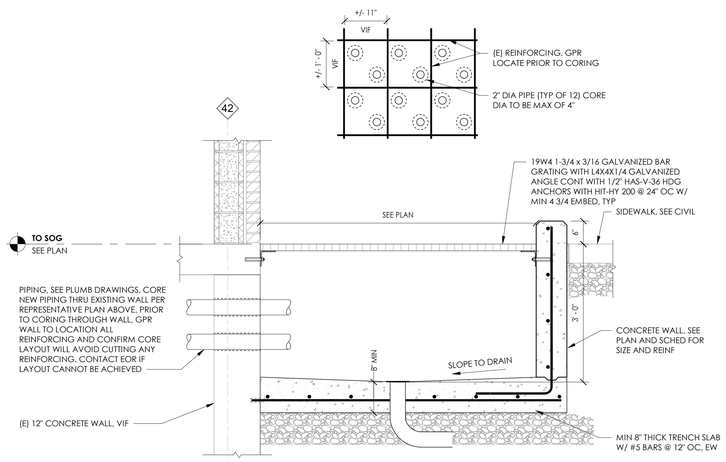
10 FOUNDATION SECTION

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3/4" = 1'-0"



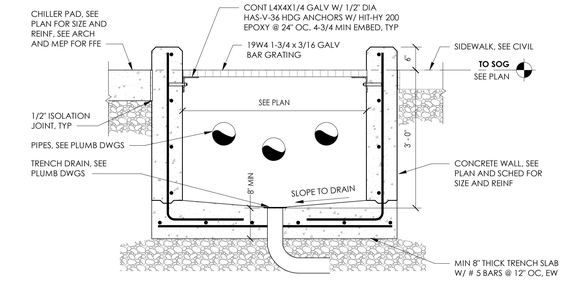
11 FOUNDATION SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



13 FOUNDATION SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



14 FOUNDATION SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"

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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

Expiration Date: 03/31/2028
Certificate of Authorization: 021475

#	DATE	DESCRIPTION

Drawn By:	SRB
Checked By:	LCA
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Construction Documents:	03/12/2026

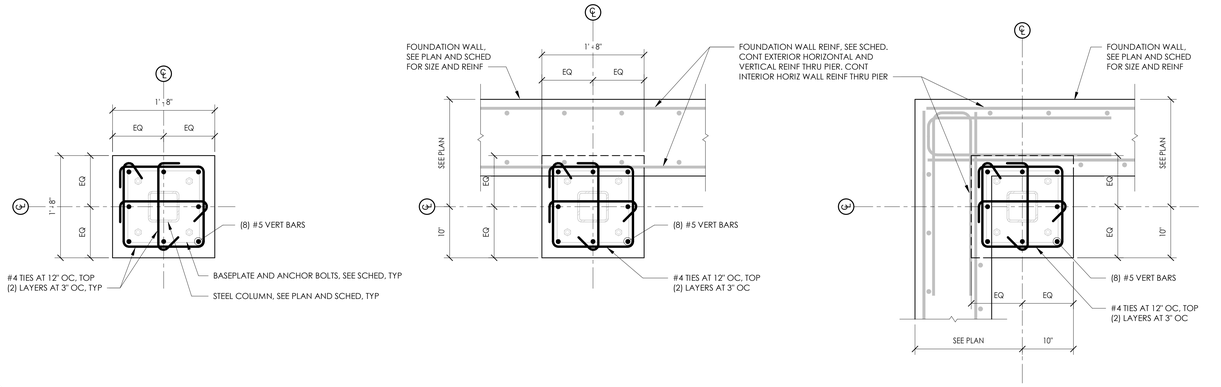
Sheet Title
FOUNDATION SECTIONS & DETAILS

Sheet No.
TR
S301

CONSTRUCTION DOCUMENTS

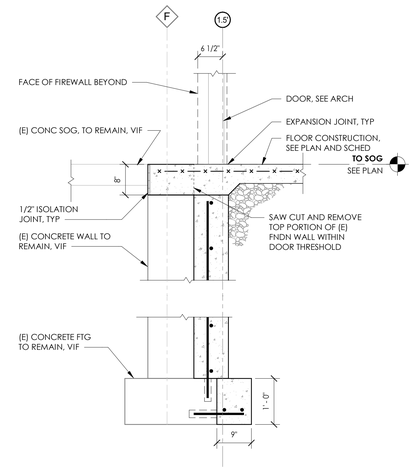
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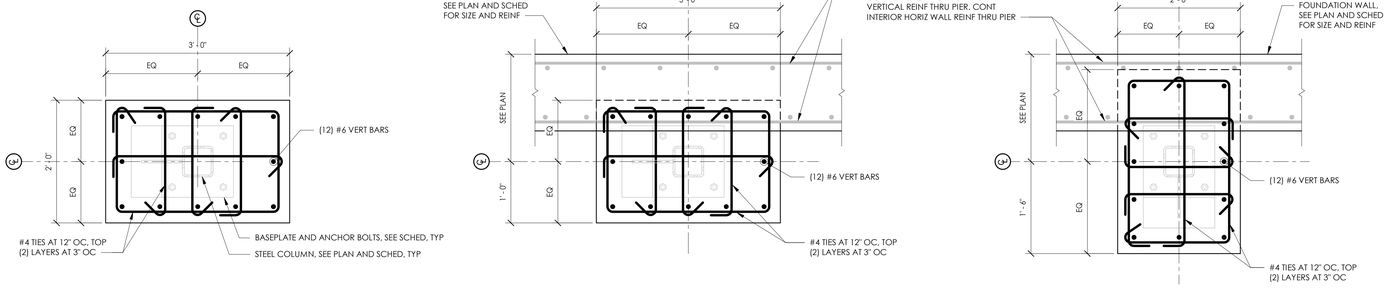
1 P20

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1" = 1'-0"



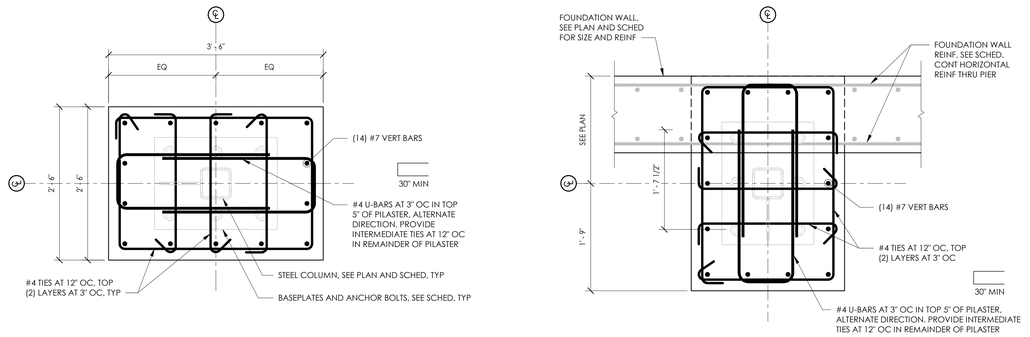
4 FOUNDATION SECTION

0" 6" 1' 2' 4"
3/4" = 1'-0"



2 P36

0" 3" 6" 1' 2'
1" = 1'-0"



3 P42

0" 3" 6" 1' 2'
1" = 1'-0"

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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT



Expiration Date: 03/31/2026
Certificate of Authorization: 021472

#	DATE	DESCRIPTION

Drawn By:	SRK
Checked By:	CAA
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Construction Documents:	03/12/2024

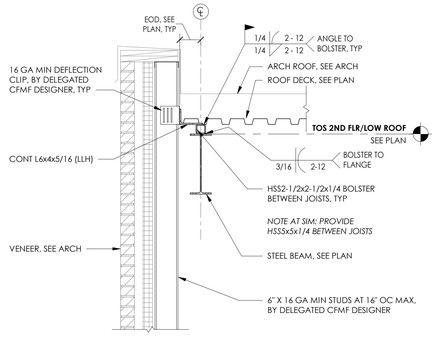
Sheet Title
FOUNDATION SECTIONS & DETAILS

Sheet No.
TR
S302

CONSTRUCTION DOCUMENTS

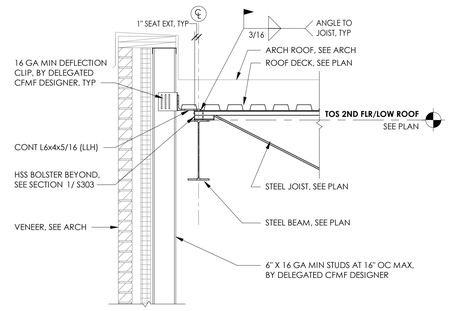
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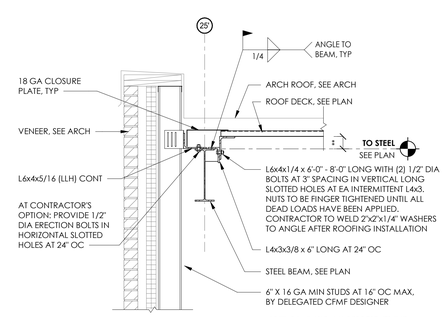
1 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



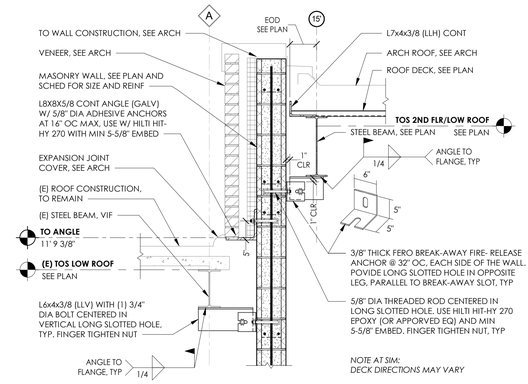
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0" 6" 1' 2' 4'
3/4" = 1'-0"



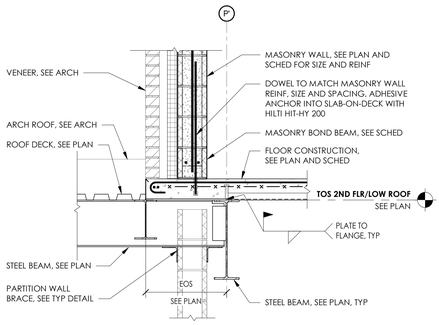
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0" 6" 1' 2' 4'
3/4" = 1'-0"



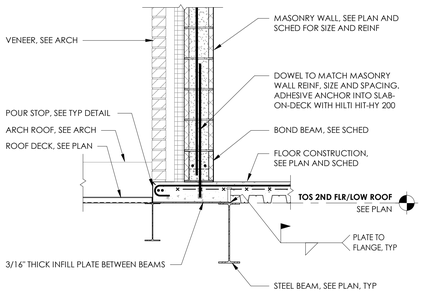
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0" 6" 1' 2' 4'
3/4" = 1'-0"



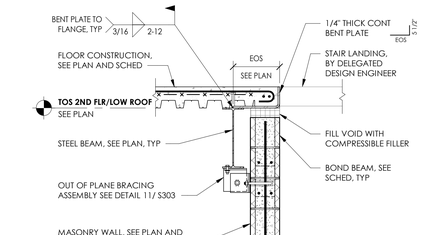
5 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



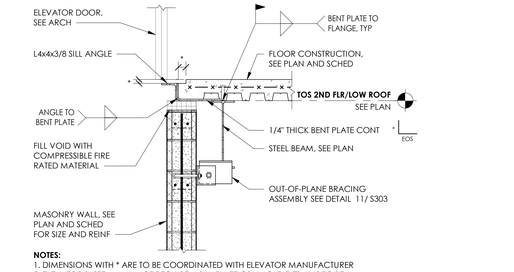
6 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



7 FRAMING SECTION

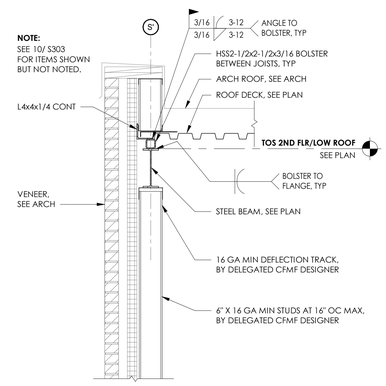
0" 6" 1' 2' 4'
3/4" = 1'-0"



NOTES:
1. DIMENSIONS WITH * ARE TO BE COORDINATED WITH ELEVATOR MANUFACTURER
2. ELEVATOR SYSTEM MAY NOT REQUIRE A SILL PLATE OR ANGLE. DETAIL IS TO BE COORDINATED WITH FINAL SELECTED ELEVATOR MANUFACTURER

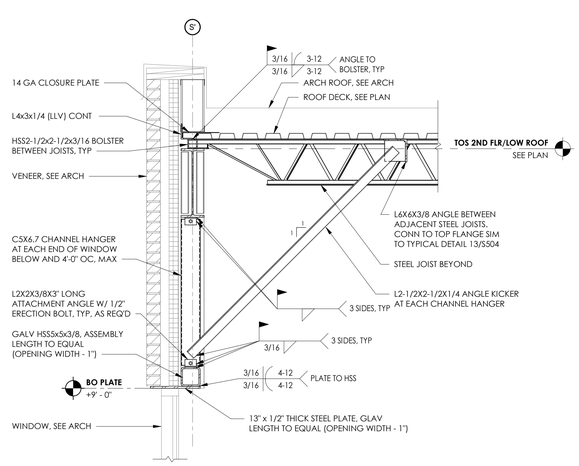
8 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



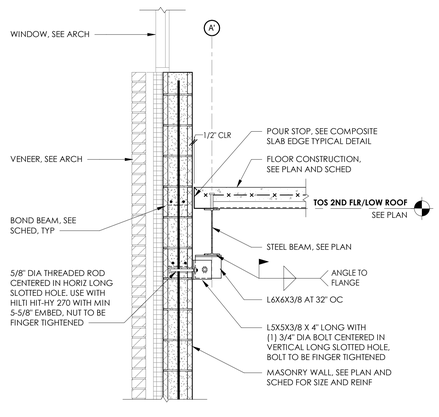
9 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



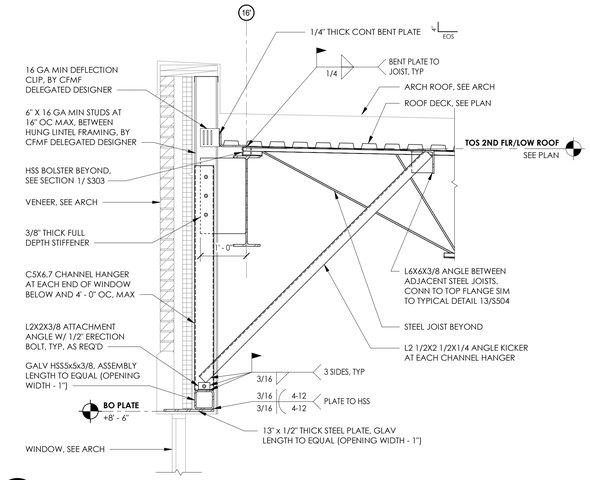
10 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



11 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



12 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"

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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK
LAURA C. ALEXANDER
SCOTT
109311
LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2028
Certificate of Authorization: 021475

NO.	DATE	DESCRIPTION

Drawn By: SSK
Checked By: CA
Proj. #: 03-02-00-01-0-010-014
CSArch Proj. #: 215-2402
Construction Documents: 03/13/2026

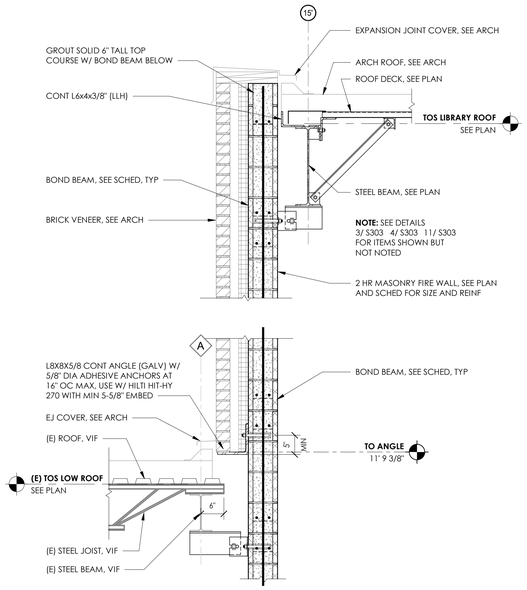
Sheet Title
FRAMING SECTIONS & DETAILS

Sheet No.
TR S303

CONSTRUCTION DOCUMENTS

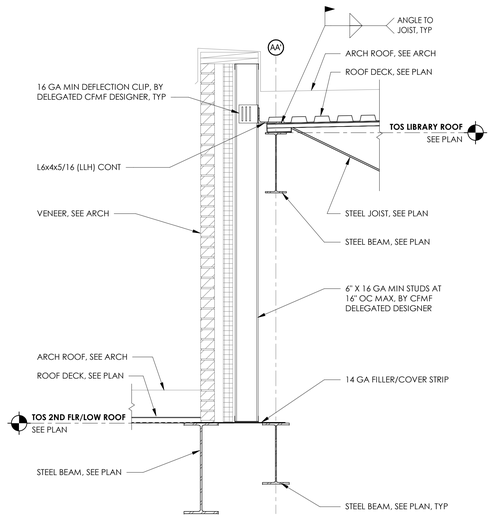
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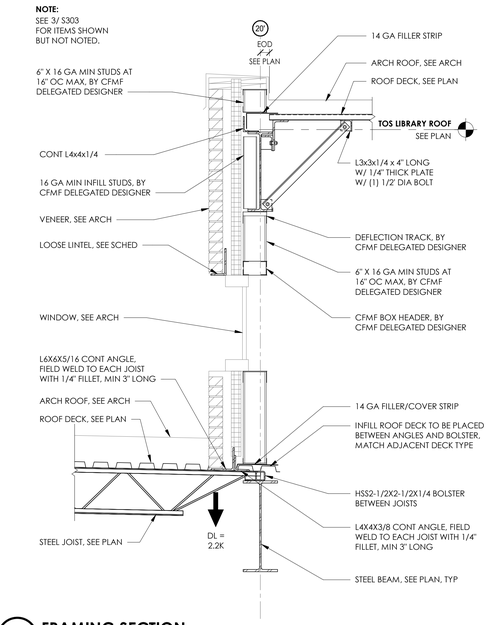
1 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



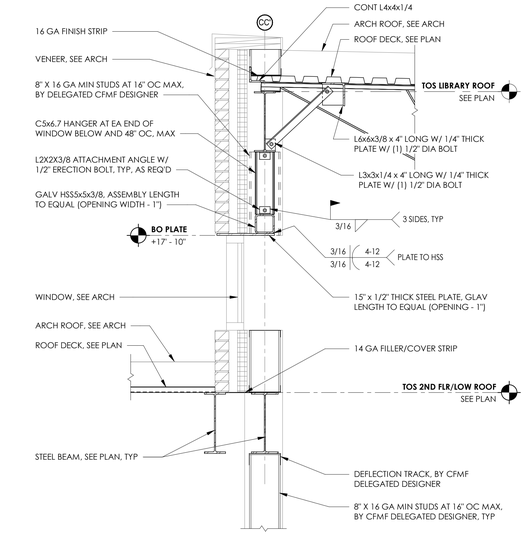
2 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



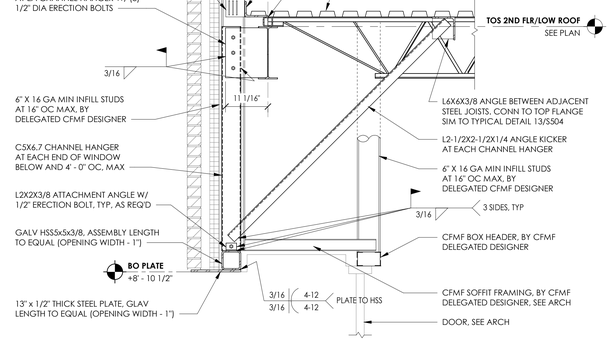
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0" 6" 1' 2' 4'
3/4" = 1'-0"



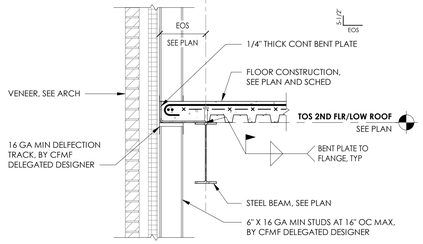
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0" 6" 1' 2' 4'
3/4" = 1'-0"



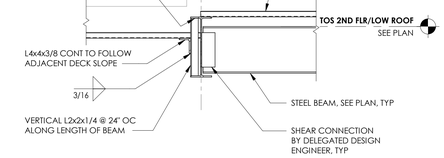
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0" 6" 1' 2' 4'
3/4" = 1'-0"



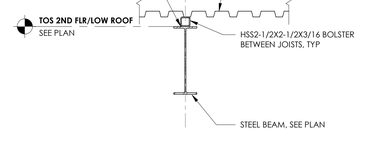
6 FRAMING SECTION

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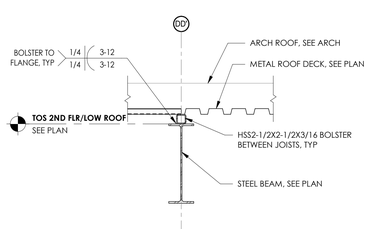
7 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



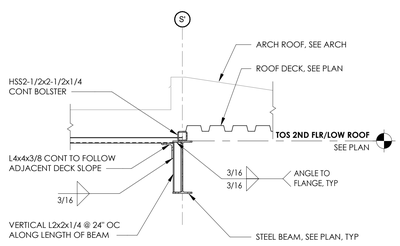
8 FRAMING SECTION

0" 6" 1' 2' 4'
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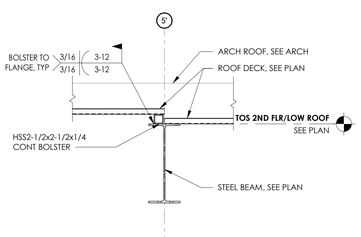
9 FRAMING SECTION

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3/4" = 1'-0"



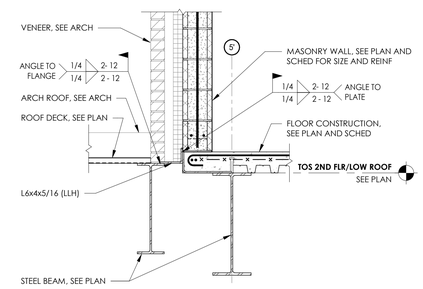
10 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



11 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



12 FRAMING SECTION

0" 6" 1' 2' 4'
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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK
LAURA C. ALEXANDER
LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2026
Certificate of Authorization: 021475

No.	DATE	DESCRIPTION

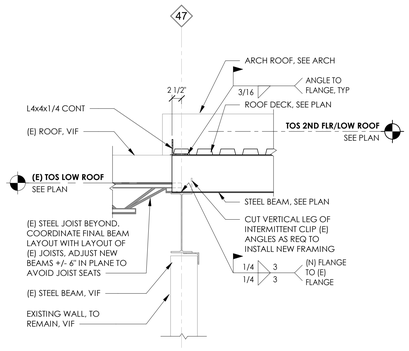
Drawn By: SBK
Checked By: LCA
Proj. #: 03-02-00-01-0-010-016
CSArch Proj. #: 215-2402
Construction Documents: 01/27/2026

Sheet Title
FRAMING SECTIONS & DETAILS

Sheet No.
TR
S304

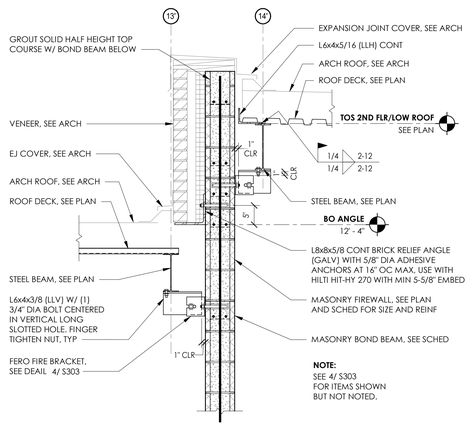
CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt



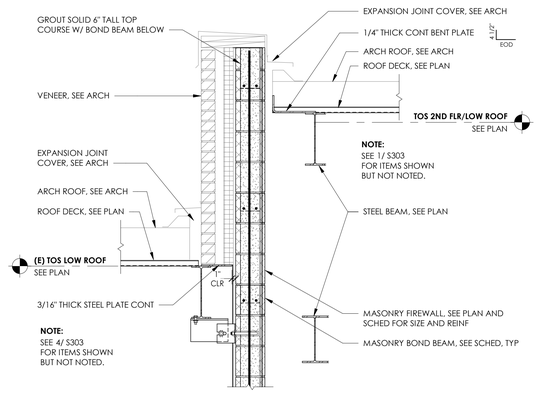
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0" 6" 1' 2' 4'
3/4" = 1'-0"



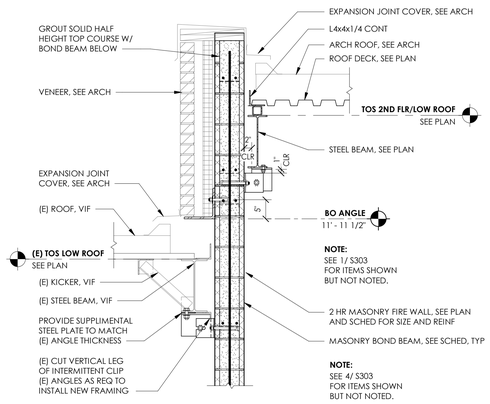
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3/4" = 1'-0"



3 FRAMING SECTION

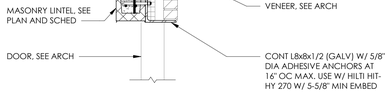
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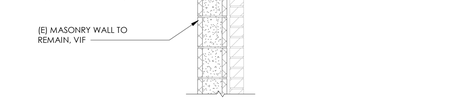
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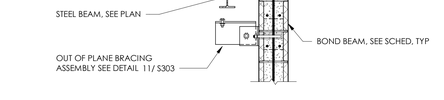
5 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



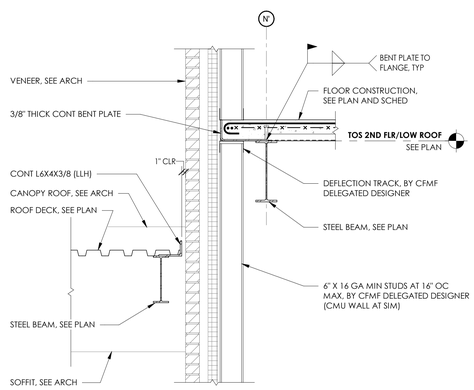
6 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



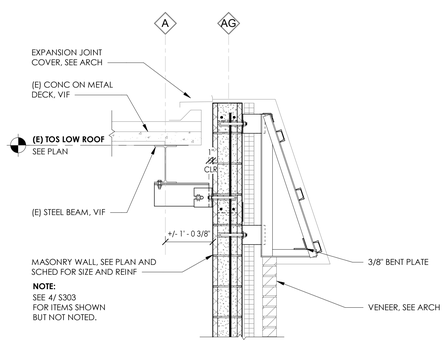
7 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



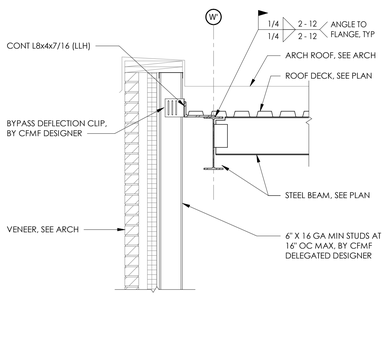
8 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



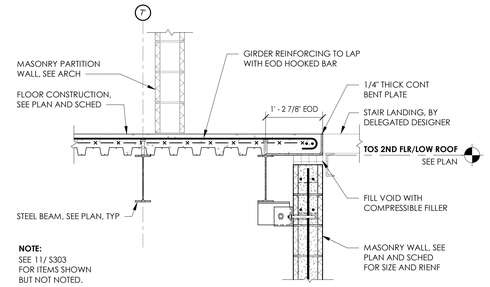
9 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



10 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



11 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"

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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK
LAURA C. ALEXANDER
109511
LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2026
Certificate of Authorization: 021475

#	DATE	DESCRIPTION

Drawn By: SBK
Checked By: LCA
Proj. #: 03-02-00-01-0-010-016
CSArch Proj. #: 215-2402
Construction Documents: 03/12/2026

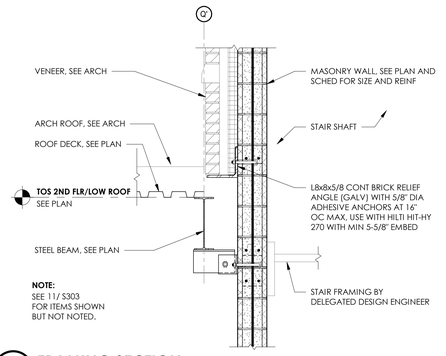
Sheet Title
FRAMING SECTIONS & DETAILS

Sheet No.
TR
S305

CONSTRUCTION DOCUMENTS

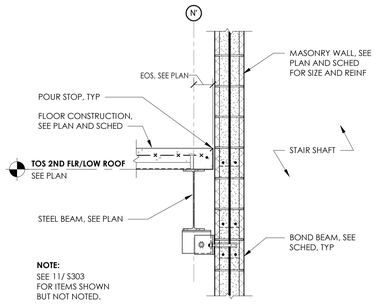
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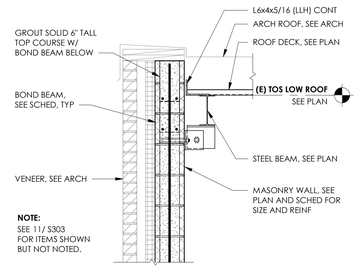
1 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



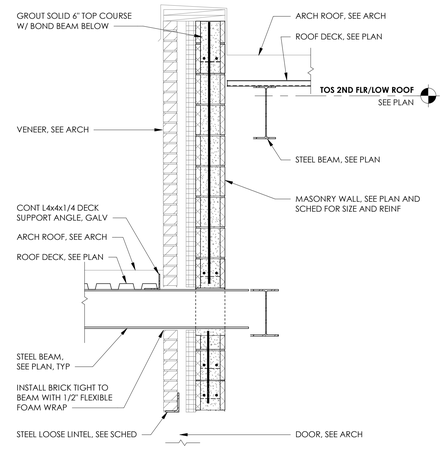
2 FRAMING SECTION

3/4" = 1'-0"



3 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



4 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"

5 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"

6 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"

8 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"

9 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"

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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT



Expiration Date: 03/31/2028
Certificate of Authorization: 021475

NO.	DATE	DESCRIPTION

Drawn By:	SBK
Checked By:	CCA
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Construction Documents:	03/13/2026

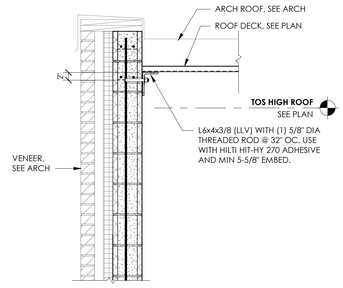
Sheet Title
FRAMING SECTIONS & DETAILS

Sheet No.
TR S306

CONSTRUCTION DOCUMENTS

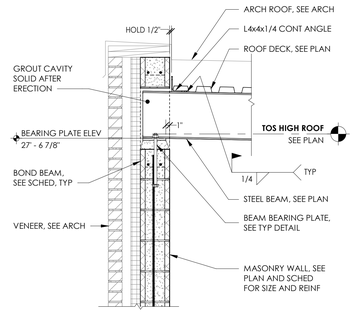
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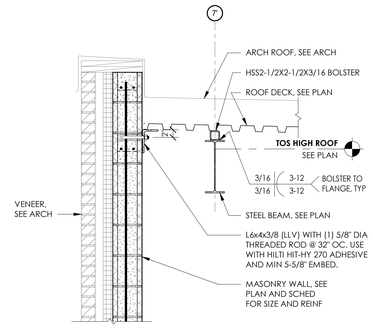
1 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



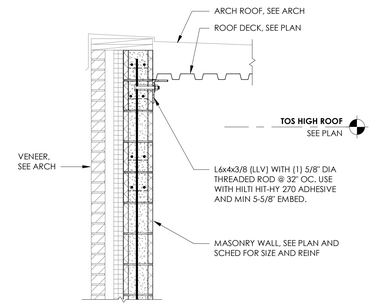
2 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



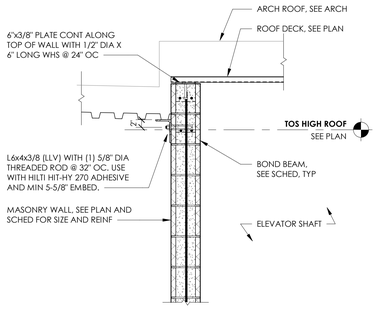
3 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



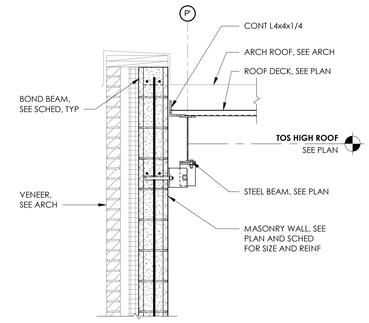
4 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



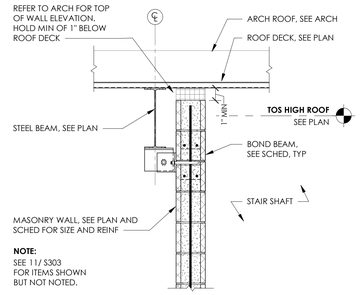
5 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



6 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"



7 FRAMING SECTION

0" 6" 1' 2' 4'
3/4" = 1'-0"

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LAURA C. ALEXANDER
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LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2028
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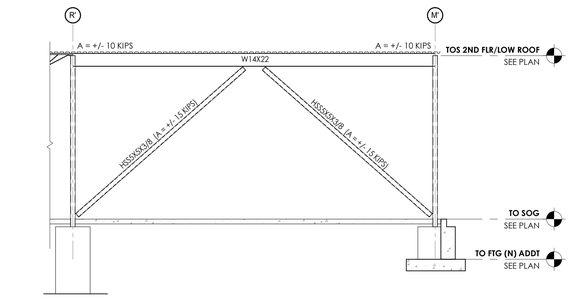
Drawn By: SKB
Checked By: LCA
Proj. #: 03-02-00-01-0-010-014
CSArch Proj. #: 215-2402
Construction Documents: 03/12/2026

Sheet Title
FRAMING SECTIONS & DETAILS

Sheet No.
TR S307

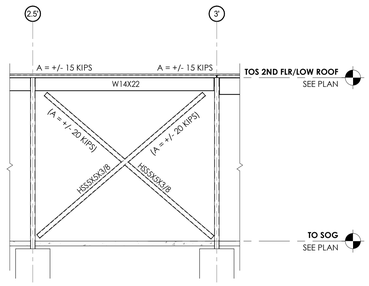
CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES_Struct_R24.rvt



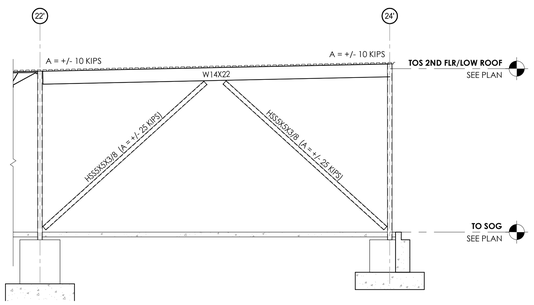
1 GRID 2'

0' 2' 4' 8' 16'
3/16" = 1'-0"



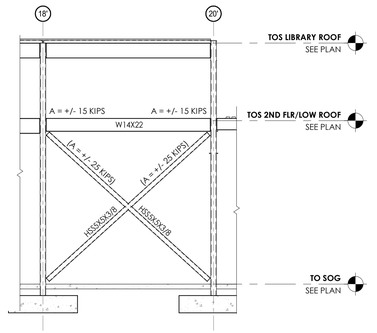
2 GRID R'

0' 2' 4' 8' 16'
3/16" = 1'-0"



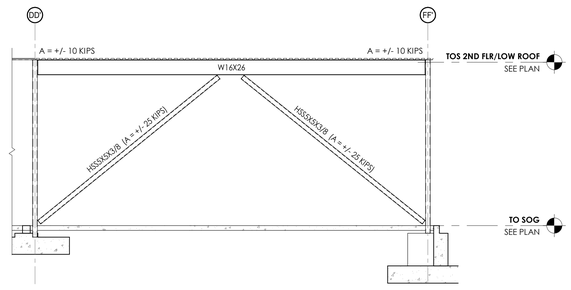
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0' 2' 4' 8' 16'
3/16" = 1'-0"



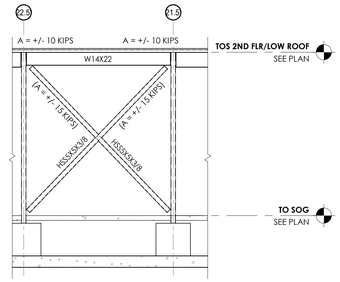
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0' 2' 4' 8' 16'
3/16" = 1'-0"



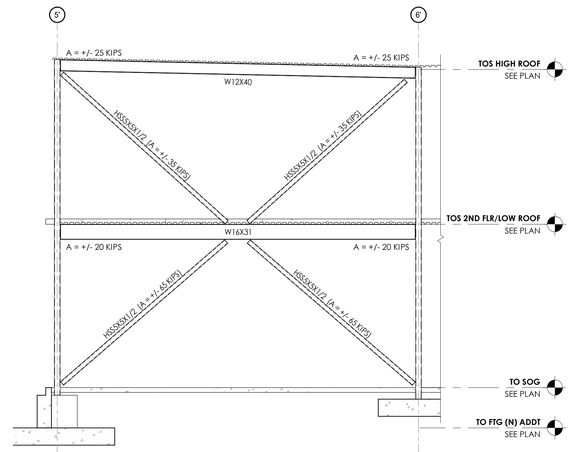
5 GRID 19''

0' 2' 4' 8' 16'
3/16" = 1'-0"



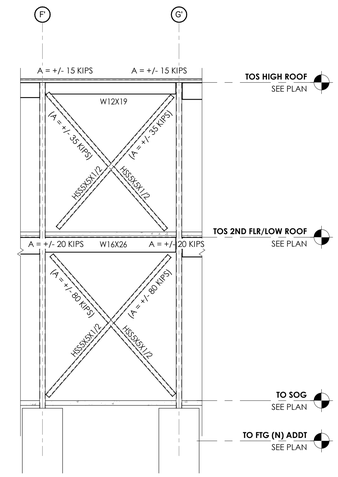
6 GRID FF'

0' 2' 4' 8' 16'
3/16" = 1'-0"



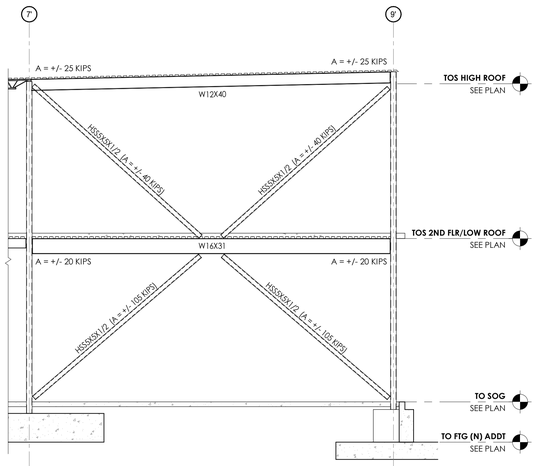
7 GRID C'

0' 2' 4' 8' 16'
3/16" = 1'-0"



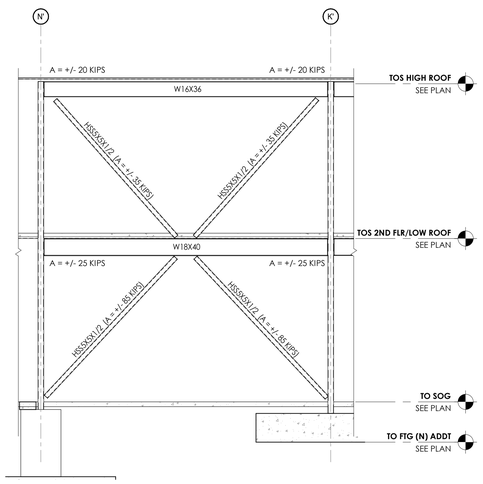
8 GRID 6'

0' 2' 4' 8' 16'
3/16" = 1'-0"



9 GRID K'

0' 2' 4' 8' 16'
3/16" = 1'-0"



10 GRID 7'

0' 2' 4' 8' 16'
3/16" = 1'-0"

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Expiration Date: 03/31/2026
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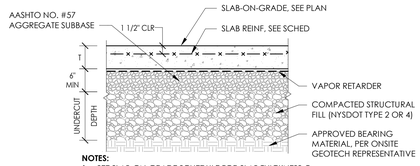
#	DATE	DESCRIPTION

Drawn By: SBK
Checked By: LCA
Proj. #: 03-02-00-01-0-010-016
CSArch Proj. #: 215-2402
Construction Documents: 03/12/2026

Sheet Title
BRACED FRAME ELEVATIONS

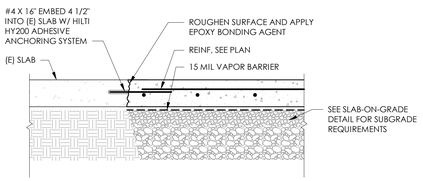
Sheet No.
TR
S401

CONSTRUCTION DOCUMENTS

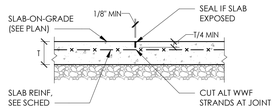


NOTES:
1. SEE SLAB-ON-GRADE SCHEDULE FOR SLAB THICKNESS, T.
2. PROVIDE CHAIRS TO SUPPORT SLAB REINFORCING AT SPECIFIED ELEVATION.

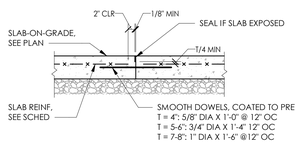
1 SLAB-ON-GRADE
N.T.S.



2 SLAB ON GRADE REPLACEMENT
N.T.S.



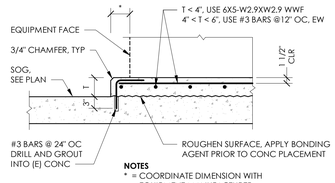
CONTROL JOINT (CJ)



CONSTRUCTION JOINT (CNJ)

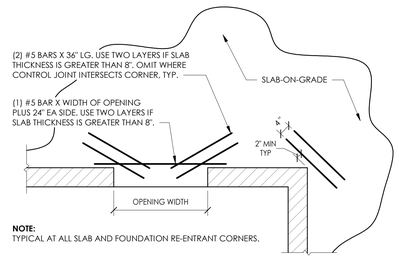
NOTES:
1. SEE TYPICAL SLAB-ONGRADE DETAIL FOR INFORMATION NOT SHOWN.
2. IF FORMED JOINT IS USED, INSERT 1/8" PREMOLDED OR METAL STRIPS WHEN CONCRETE IS PLACED.
3. IF SAWED JOINT USE, SEAL IF SLAB IS EXPOSED.
4. SPACE CONTROL JOINTS AS FOLLOWS:
   A. T = 5": 12'-0" OC
   B. T = 8": 16'-0" OC

3 SLAB-ON-GRADE CONTROL/CONSTRUCTION JOINT
N.T.S.



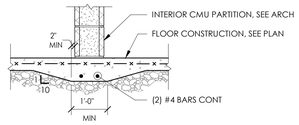
NOTES
* = COORDINATE DIMENSION WITH EQUIPMENT MANUFACTURER

4 EQUIPMENT PAD SLAB
N.T.S.



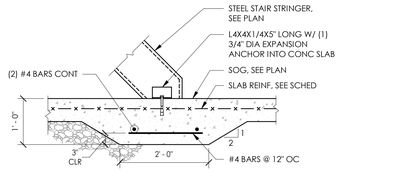
NOTE:
TYPICAL AT ALL SLAB AND FOUNDATION RE-ENTRANT CORNERS.

5 REENTRANT CORNER REINFORCEMENT
N.T.S.



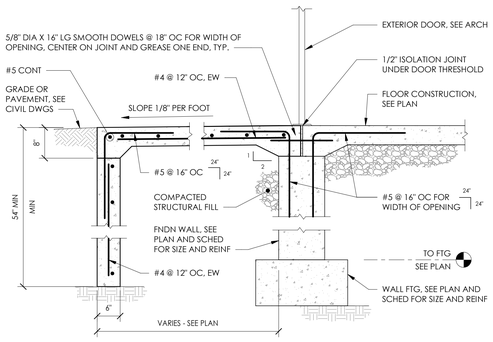
NOTES:
1. SEE FOUNDATION PLAN FOR SLAB THICKNESS.
2. THICKENED SLAB UNDER ALL INTERIOR CMU PARTITIONS EXCEEDING 8'-0" IN LENGTH.
3. SEE TYPICAL SLAB-ON-GRADE DETAIL, ON THIS SHEET, FOR SLAB DETAILS NOT SHOWN.

6 SLAB AT CMU PARTITION WALL
N.T.S.

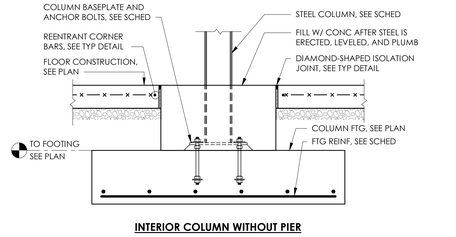


NOTE:
SEE TYPICAL SLAB-ON-GRADE DETAIL FOR INFORMATION NOT SHOWN.

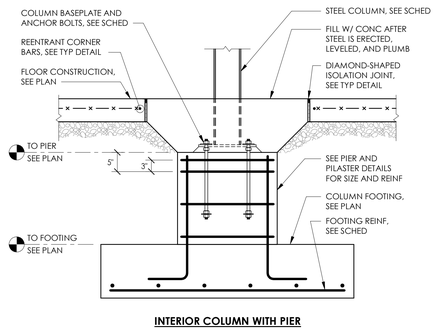
7 THICKENED SLAB AT STEEL STAIR STRINGER
N.T.S.



8 EXTERIOR CONCRETE APRON AT EXTERIOR DOOR
N.T.S.

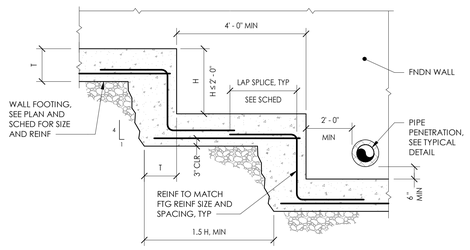


INTERIOR COLUMN WITHOUT PIER

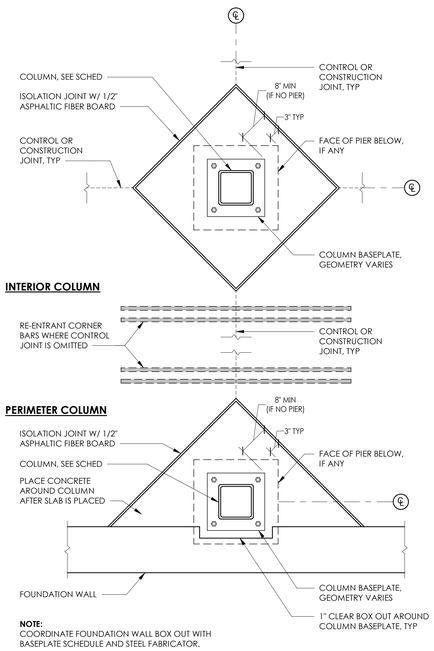


INTERIOR COLUMN WITH PIER

9 INTERIOR COLUMN FOOTING
N.T.S.



10 TYPICAL WALL FOOTING STEP DETAIL
N.T.S.



NOTE:
COORDINATE FOUNDATION WALL BOX OUT WITH BASEPLATE SCHEDULE AND STEEL FABRICATOR.

11 COLUMN ISOLATION JOINT
N.T.S.

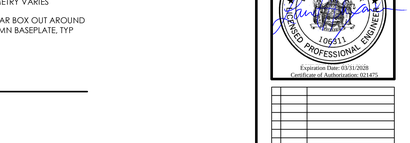
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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT



Expiration Date: 03/31/2028
Certificate of Authorization: 021475

P#	DATE	DESCRIPTION

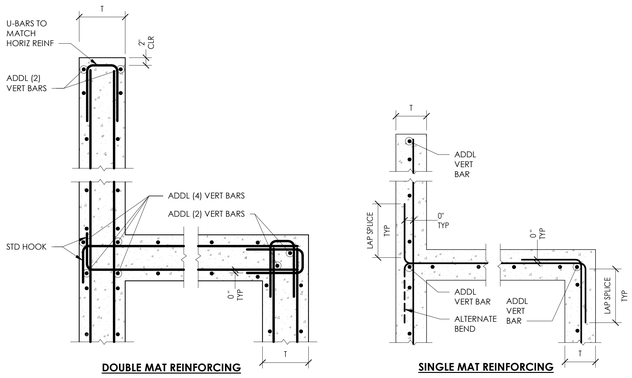
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Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Construction Documents:	03/12/2026

Sheet Title
TYPICAL CONCRETE DETAILS

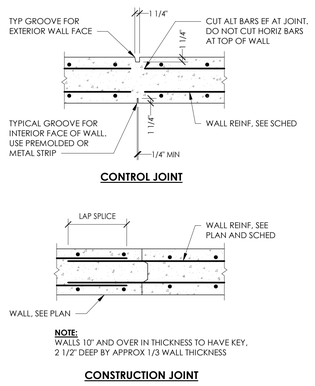
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CONSTRUCTION DOCUMENTS

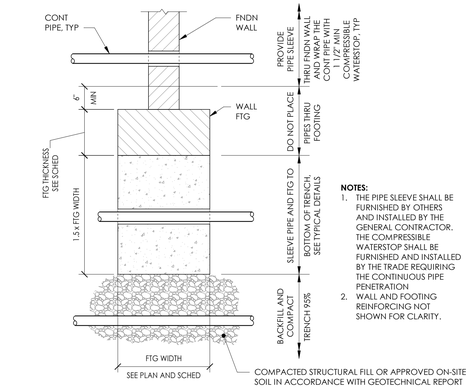
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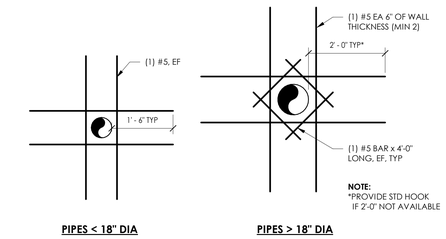
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N.T.S.



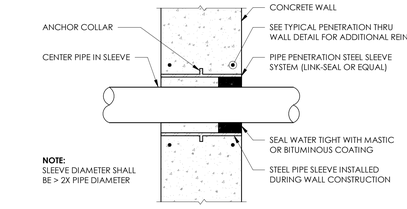
2 TYPICAL CONCRETE WALL JOINTS
N.T.S.



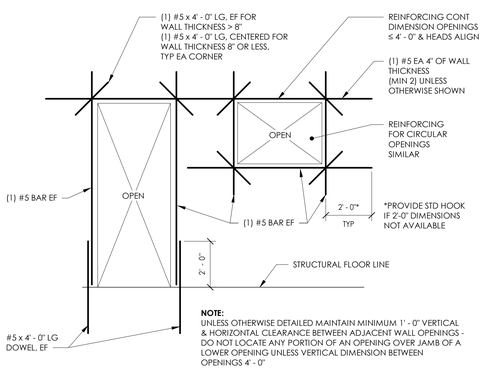
3 TYPICAL PIPES AT FOUNDATION
N.T.S.



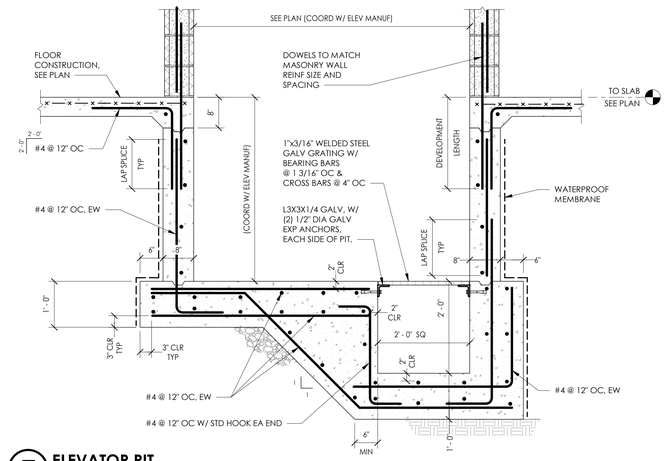
4 TYPICAL PIPE OPENING IN CONCRETE WALL
N.T.S.



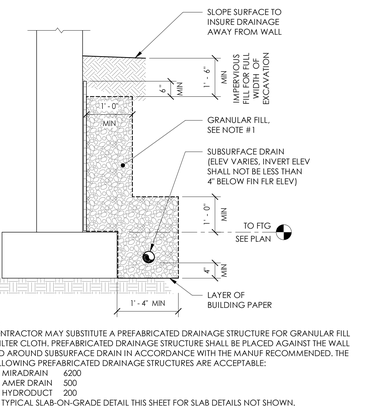
5 PIPE SLEEVE BELOW GRADE
N.T.S.



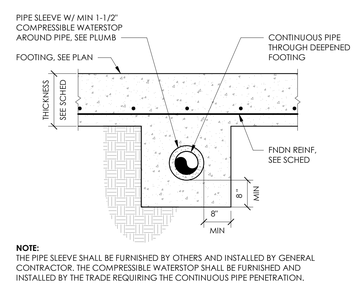
6 REINF AT OPENING IN CONCRETE WALLS
N.T.S.



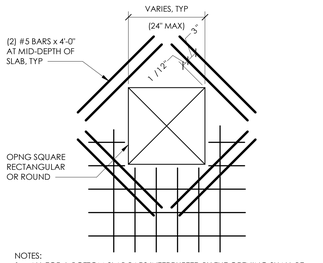
7 ELEVATOR PIT
N.T.S.



8 FOUNDATION DRAIN
N.T.S.



9 DEEPENED FOOTING AT PIPE
N.T.S.

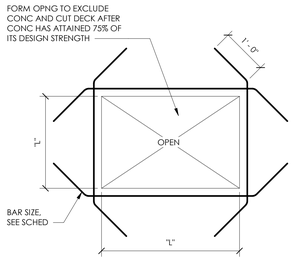


10 REINF AT OPENING IN SLAB
N.T.S.

FLOOR OPENING SCHEDULE

"L"	REINFORCEMNT
TO 10"	NO ADDITIONAL REINFORCEMENT REQUIRED
10" TO 16"	(1) #4
16" TO 24"	(1) #5
24" TO 30"	(2) #5
OVER 30"	REQUIRES STRUCTURAL STEEL FRAME

"L" IS MEASURED AT RIGHT ANGLE TO FLOOR DECK SPAN. GREATER "L" DIMENSION CONTROLS.



11 FLOOR OPENING AND SCHEDULE
N.T.S.

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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK
LAURA C. ALEXANDER
105511
LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2028
Certificate of Authorization: 021475

#	DATE	DESCRIPTION

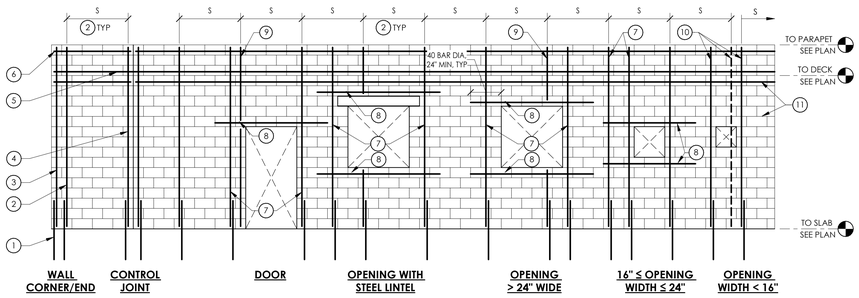
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Sheet Title
TYPICAL CONCRETE DETAILS

Sheet No.
TR
S502
CONSTRUCTION DOCUMENTS

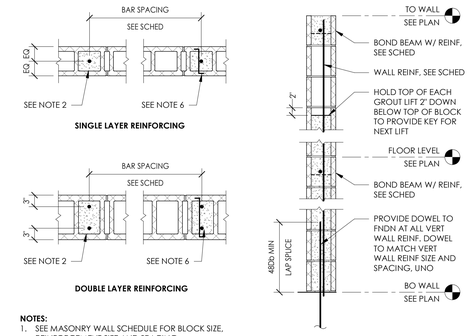
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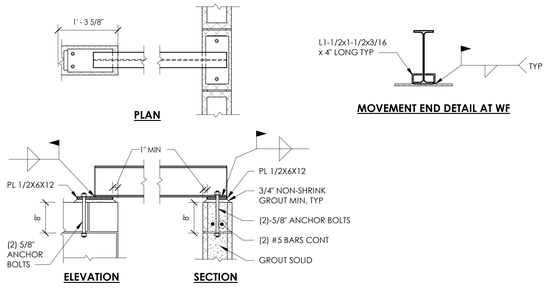
NOTES	
MARK	DESCRIPTION
1	DOWELS TO MATCH SIZE AND SPACING OF WALL REINFORCEMENT.
2	TYPICAL REINFORCEMENT, SEE SECTIONS FOR SIZE AND SPACING, S.
3	PROVIDE REINFORCEMENT AT WALL CORNER AND WITHIN 8" OF END OF WALL.
4	PROVIDE REINFORCEMENT WITHIN 8" OF EACH SIDE OF CONTROL/MOVEMENT JOINT.
5	PROVIDE CONTINUOUS REINFORCEMENT AT STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS.
6	PROVIDE REINFORCEMENT WITHIN 16 INCHES OF THE TOP OF WALL, DISCONTINUE AT CONTROL/MOVEMENT JOINT.
7	PROVIDE REINFORCEMENT WITHIN 16 INCHES OF EACH SIDE OF OPENING.
8	PROVIDE REINFORCEMENT AT TOP AND BOTTOM OF OPENINGS.
9	TYPICAL REINFORCEMENT INTERRUPTED BY OPENING.
10	PROVIDE REINFORCEMENT WITHIN 4 INCHES OF EACH SIDE OF OPENING IF TYPICAL REINFORCEMENT IS INTERRUPTED BY OPENING. OTHERWISE REINFORCEMENT IS NOT REQUIRED.
11	PROVIDE W1.7 (9 GAGE) JOINT REINFORCEMENT (LADDER TYPE) AT 16 INCHES ON CENTER OR #4 BAR AT 10 FEET ON CENTER.

1 MASONRY SHEAR WALL OPENING REINFORCEMENT LAYOUT
N.T.S.



NOTES:
1. SEE MASONRY WALL SCHEDULE FOR BLOCK SIZE, REINFORCEMENT SIZE AND SPACING.
2. GROUT REINFORCING SOLID IN BLOCK CORES.
3. PROVIDE ADDITIONAL HORIZONTAL JOINT REINFORCEMENT ON E COURSE ABOVE AND BELOW OPENINGS EXTENDING A MINIMUM OF 2' - 0" BEYOND FACE OF OPENING ON EACH SIDE.
4. PROVIDE BOND BEAMS AT SPACING NOTED IN MASONRY WALL SCHEDULE, AT STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS, AND WITHIN 16" OF THE TOP OF WALLS.
5. RUN BOND BEAMS WITH REINFORCEMENT THROUGH CONTROL JOINTS, SEE TYPICAL CONTROL JOINT DETAIL.
6. PROVIDE HECKMAN NO. 374 STEEL-WICH REBAR POSITIONERS, OR APPROVED EQUAL, AT 8" MAX ABOVE TOP OF GROUT LIFT.
7. COORDINATE ADDITIONAL GROUT AND REINFORCEMENT REQUIREMENTS WITH SPECIFICATIONS.

4 CMU VERTICAL REINFORCING
N.T.S.



NOTES:
1. PROVIDE 3 COURSES OF SOLID OR CONCRETE FILLED HOLLOW UNITS MIN 2'-0" EA SIDE OF PLATE CENTERLINE.
2. AT ALL BEAMS WELD ONE END TO THE BEARING PLATE AND USE APPLICABLE MOMENT JOINT FOR MOVEMENT AT OTHER END.
3. INFILL POCKET AFTER BEAM ERECTION WITH CMU OR GROUT.
4. PROVIDE ADDITIONAL BEARING PLATE AT HSS MEMBERS.

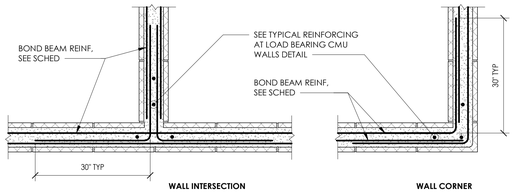
8 BEARING PLATE ON CMU WALL
N.T.S.

INTERIOR LINTEL SCHEDULE

(NON-LOADBEARING MASONRY PARTITIONS ONLY)					
MAXIMUM MASONRY OPENING	MASONRY WALL THICKNESS				
	4 INCH WALLS	6 INCH WALLS	8 INCH WALLS	10 INCH WALLS	12 INCH WALLS
4' - 0"	(1) L4 x 3 1/2 x 1/4	(2) L3 x 2 1/2 x 1/4	(2) L4 x 3 1/2 x 1/4	L5 x 5 x 5/16 + L4 x 3 1/2 x 1/4	(3) L4 x 3 1/2 x 1/4
6' - 0"	(1) L5 x 3 1/2 x 1/4	(2) L3 1/2 x 2 1/2 x 1/4	(2) L5 x 3 1/2 x 1/4	L5 x 5 x 5/16 + L5 x 3 1/2 x 1/4	(3) L4 x 3 1/2 x 1/4
8' - 0"	(1) L6 x 3 1/2 x 5/16	(2) L3 1/2 x 2 1/2 x 1/4	(2) L6 x 3 1/2 x 5/16	L5 x 5 x 5/16 + L5 x 3 1/2 x 5/16	(3) L4 x 3 1/2 x 1/4

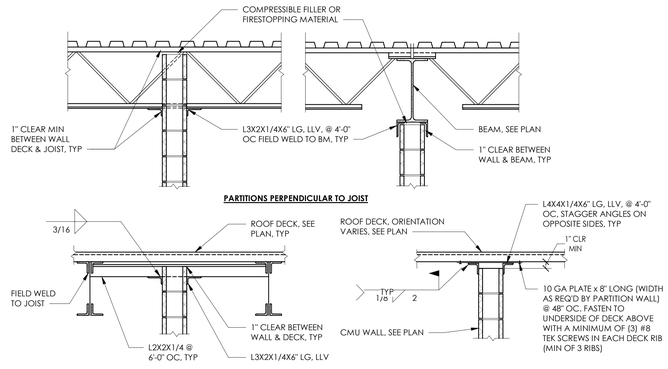
NOTES:
1. INTERIOR LINTELS ARE NOT SHOWN ON STRUCTURAL PLANS.
2. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
3. ALL HORIZONTAL LINTEL ELEMENTS SUPPORTING EXTERIOR WYTHES OF MASONRY SHALL BE HOT DIPPED GALVANIZED.
4. FOR OPENINGS OVER 8' - 0" CONSULT STRUCTURAL ENGINEER.
5. ALL ANGLES SCHEDULED ABOVE SHALL BE ORIENTATED WITH LONG LEGS VERTICAL, UNO.
6. TACK WELD BACK-TO-BACK VERTICAL LEGS OF MULTIPLE ANGLE LINTELS.
7. LOOSE LINTELS UP TO 4' - 0" TO HAVE A 4" MINIMUM BEARING, UP TO 8' - 0" TO HAVE 6" MINIMUM BEARING.
8. STEEL LINTELS SHALL NOT BE USED IN MASONRY FIREWALLS. ONLY CMU LINTELS ARE ACCEPTABLE, AT MASONRY OPENING NOT SHOWN ON STRUCTURAL DRAWINGS, CONSULT ARCHITECT.

11 LOOSE LINTEL SCHEUDLE
N.T.S.



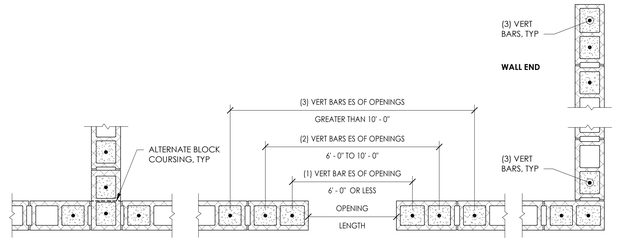
NOTES:
1. BALANCE OF VERTICAL WALL REINFORCING NOT SHOWN FOR CLARITY. SEE MASONRY WALL SCHEDULE FOR SIZE AND SPACING.
2. USE PREFABRICATED CORNER AND INTERSECTION BOND BEAM UNITS OR REMOVE FACESHELL TO ACCOMMODATE REINFORCEMENT BARS AND GROUT.
3. WALL INTERSECTION DETAIL IS SIM FOR INTERSECTION WITH WALL ON BOTH SIDES.

5 DETAIL AT BOND BEAM INTERSECTIONS
N.T.S.



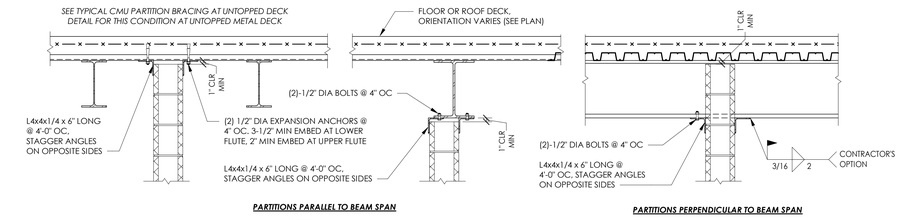
NOTE:
PROVIDE LATERAL BRACING AS SHOWN FOR ALL INTERIOR CMU PARTITION WALLS WHERE PARTITION LENGTH BETWEEN CROSS WALLS EXCEEDS 16'-0" FOR 6" THICK WALLS OR 22'-0" FOR 8" THICK WALL.

9 CMU PARTITION BARCING AT ROOF FRAMING
N.T.S.



NOTES:
1. BALANCE OF VERTICAL REINFORCING NOT SHOWN FOR CLARITY.
2. ADDITIONAL VERTICAL BARS TO MATCH WALL REINFORCEMENT, SEE SCHEDULE. RUN REINFORCING FULL HEIGHT OF WALL AND DOWEL INTO FOUNDATION. ADDITIONAL BARS SHALL BE LOCATED WITHIN 8" OF CORNER OR WALL END.

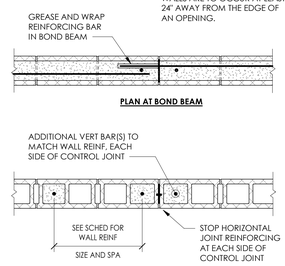
6 REINFORCING AT LOAD BEARING CMU WALLS
N.T.S.



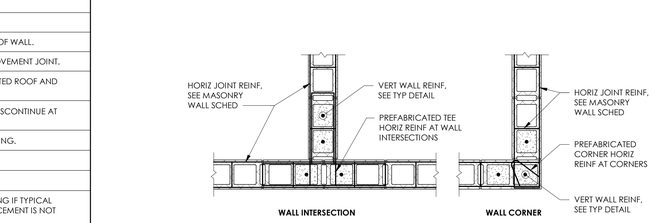
NOTES:
1. AT CONTRACTOR'S OPTION, CONNECTIONS MAY BE FIELD WELDED.
2. DETAILS ALSO APPLICABLE AT STEEL JOIST SUPPORTED SLABS.
3. PROVIDE COMPRESSIBLE FILLER BETWEEN TOP OF CMU PARTITION AND UNDERSIDE OF DECK (IN 1" VOID SPACE).
4. PROVIDE LATERAL BRACING AS SHOWN FOR ALL INTERIOR CMU PARTITION WALLS WHERE PARTITION LENGTH BETWEEN CROSS WALLS EXCEEDS 16'-0" FOR 6" THICK WALLS OR 22'-0" FOR 8" THICK WALLS.

10 TYPICAL CMU PARTITION BRACING AT SLAB ON METAL DECK
N.T.S.

NOTE:
CONTROL JOISTS IN MASONRY WALLS ARE TO OCCUR AT LEAST 24" AWAY FROM THE EDGE OF AN OPENING.

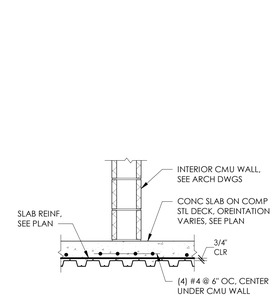


3 REINFORCING AT CONTROL JOINT
N.T.S.



NOTE:
PROVIDE 6" MIN OVERLAP BETWEEN SHEETS OF HORIZ JOINT REINF, TYP

2 CMU HORIZONTAL REINFORCING DETAIL
N.T.S.



7 CMU ON COMPOSITE FLOOR DECK
N.T.S.

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THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK · LAURA C. ALEXANDER · 109511 · LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2028
Certificate of Authorization: 021475

NO.	DATE	DESCRIPTION

Drawn By:	SDG
Checked By:	LCA
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Construction Documents:	03/12/2026

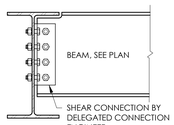
Sheet Title
TYPICAL MASONRY DETAILS

Sheet No.
TR S503

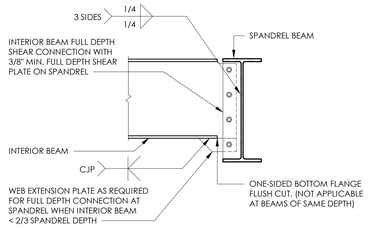
CONSTRUCTION DOCUMENTS

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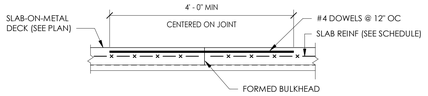
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1 BEAM TO GIRDER CONNECTION
N.T.S.

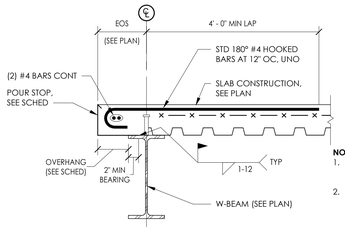


2 ROLL BEAM CONNECTION
N.T.S.



NOTES:
1. CONSTRUCTION JOINTS SHALL BE AS REQUIRED BY CONTRACTOR, AND SHALL BE LOCATED AS FOLLOWS:
   - *PARALLEL TO BEAMS: MIDDLE THIRD OF THE DISTANCE BETWEEN BEAMS*
   - *PERPENDICULAR TO BEAMS: WITHIN THE MIDDLE THIRD OF THE BEAM SPAN*
2. UNDER NO CIRCUMSTANCES SHALL ANY SAW CUT JOINTS BE PLACED IN THE SLAB
3. PROVIDE LAP SPLICE WITH REINFORCEMENT OF SUBSEQUENT POUR
4. AT CONSTRUCTION JOINT, PROVIDE TAPERED KEYWAY AND BULKHEAD TO FORM JOINT. CHIP OUT AND REMOVE CONCRETE THAT EXTENDS UNDER THE BULKHEAD TO PROVIDE A SOUND VERTICAL SURFACE PRIOR TO POURING THE ABUTTING CONCRETE.
5. PRIOR TO THE SUBSEQUENT POUR, WET FACE OF JOINT WITH WATER MIST AND REMOVE ANY STANDING WATER FROM DECK.
6. SUBMIT DRAWINGS THAT LOCATE THE CONSTRUCTION JOINTS AND PROVIDE CONCRETE PLACING SEQUENCE TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS.
7. LIMIT THE SIZE OF CONCRETE PLACEMENTS, UNLESS OTHERWISE NOTED, TO A MAXIMUM LENGTH OF 100FT AND A MAXIMUM AREA OF 10,000SF.

3 TYPICAL CONSTRUCTION JOINT IN COMPOSITE SLAB
N.T.S.

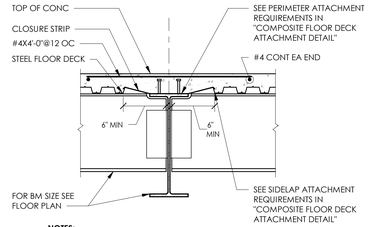


NOTES:
1. UNLESS NOTED OTHERWISE, PLACE GALVANIZED SHEET METAL POUR STOPS. POUR STOPS SHOWN ARE A MINIMUM.
2. WHERE OVERHANG DIMENSION EXCEEDS VALUE IN TABLE, A STEEL BENT PLATE WILL BE REQUIRED. SEE PLAN AND/OR SECTIONS FOR DETAILS. NOTIFY EOR FOR CONDITIONS NOT DETAILED.

MINMUM POUR STOP GAUGE

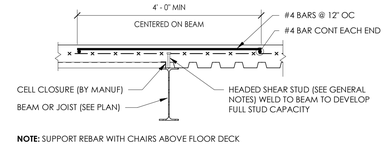
SLAB THICKNESS	OVERHANG (INCHES)										
	1	2	3	4	5	6	7	8	9	10	11
5 1/2"	20	18	18	16	16	14	14	12	12	10	10
6 1/2"	16	16	14	14	12	12	12	12	10	10	-

4 TYPICAL COMPOSITE DECK EOS
N.T.S.



NOTES:
1. SUPPORT REBAR WITH CHAIRS ABOVE DECK.
2. CLOSURE STRIP SHALL BE CONTINUOUS ALONG LENGTH OF GIRDER.
3. CLOSURE STRIP SHALL BE SAME GAUGE AS DECK, MIN/

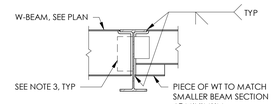
5 COMPOSITE SLAB/GIRDER DETAIL
N.T.S.



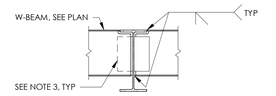
NOTE: SUPPORT REBAR WITH CHAIRS ABOVE FLOOR DECK

6 TYPICAL CHANGE IN COMPOSITE DECK SPAN
N.T.S.

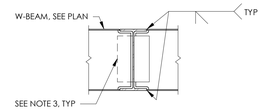
NON-DELEGATED MOMENT CONNECTIONS:
(IF NO MOMENT REACTION IS GIVEN ON PLAN)



TYPE III - BEAMS OF DIFFERENT DEPTHS

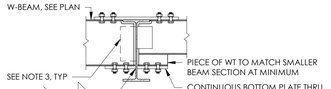


TYPE II - BEAMS OF SAME DEPTH, GIRDER DEPTH DIFFERENT

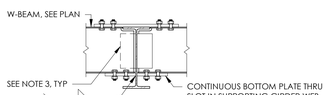


TYPE I - BEAMS AND GIRDER WITH SAME DEPTH

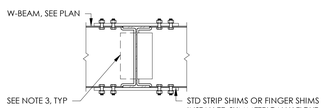
DELEGATED MOMENT CONNECTIONS:



TYPE III - BEAMS OF DIFFERENT DEPTHS



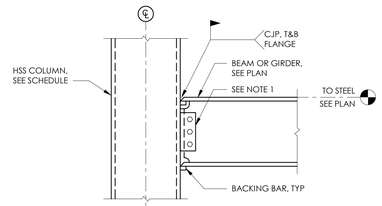
TYPE II - BEAMS OF SAME DEPTH, GIRDER DEPTH DIFFERENT



TYPE I - BEAMS AND GIRDER WITH SAME DEPTH

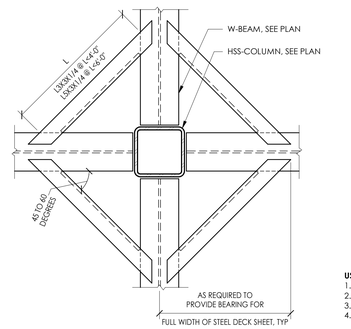
NOTES:
1. MOMENT CONNECTION TO DEVELOP MOMENT REACTION INDICATED ON PLAN. IN THE ABSENCE OF REACTION NOTED ON PLAN, PROVIDE FULL PENETRATION WELDED CONNECTIONS AT SHOWN.
2. ALL BOLTS ARE A325-N-SC (SLIP CRITICAL) WITH A MINIMUM OF (4) BOLTS AT EACH FLANGE. A490-N-SC BOLTS ARE PERMITTED.
3. DESIGN SHEAR CONNECTION PER STANDARD SHEAR CONNECTION FOR REACTION NOTED ON PLAN, AND/OR MINIMUM REACTION INDICATED IN GENERAL NOTES.
4. FIELD WELDED FLANGE PLATES ARE AN ACCEPTABLE ALTERNATE TO FIELD BOLTED FLANGE PLATES.
5. DETAIL SHIMS AND/OR FILLERS PER AISC SPECIFICATION.
6. PROVIDE DECK SUPPORT AS REQUIRED. DECK SUPPORT BY OVERSIZED TOP FLANGE FILLER PLATES IS ACCEPTABLE WITH A 1/4" MINIMUM THICKNESS AND EXTENDS A MINIMUM OF 3" BEYOND BEAM FLANGE.

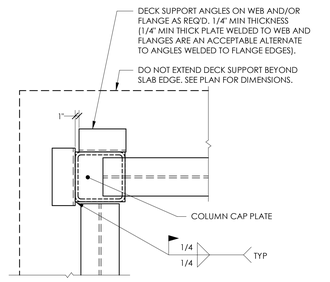
7 BEAM MOMENT CONNECTION
N.T.S.



NOTES:
1. SHEAR CONNECTION AT BEAMS AND GIRDERS SHALL BE DESIGNED FOR REACTIONS AS SHOWN ON PLAN.
2. STIFFENER PLATES REQUIRED FOR WEAK-AXIS MOMENT CONNECTIONS, AND ACT AS EFFECTIVE STIFFENER PLATES FOR STRONG-AXIS MOMENT CONNECTIONS.
3. ONE-SIDED MOMENT CONNECTION SHOWN; MULTIPLE CONNECTIONS SHALL BE SIMILAR.
4. SHEAR PLATE THICKNESS AT WEAK-AXIS MOMENT CONNECTIONS SHALL MATCH THE WEB THICKNESS OF THE BEAM OR GIRDER FRAMING INTO THE COLUMN.
5. WELD ACCESS HOLE GEOMETRY SHALL MEET REQUIREMENTS OF AISC 341, FIG 11-1.

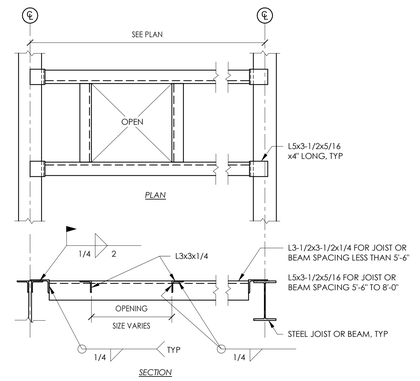
8 BEAM TO COLUMN MOMENT CONNECTION
N.T.S.





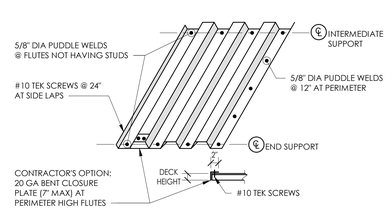
USE SIMILAR DETAIL:
1. AT BEAM TO BEAM MOMENT CONNECTIONS.
2. WHERE PIPE SLEEVES OCCUR NEXT TO COLUMNS.
3. WHERE COLUMN BASE PLATE OCCURS ON TOP OF FLANGE OF STEEL BEAM.
4. AT ALL OTHER CONDITIONS WHERE DECK SUPPORT IS INTERRUPTED FOR A DISTANCE GREATER THAN 6".
5. WHERE D IS 6" OR LESS, DECK SUPPORT ANGLES ARE NOT REQUIRED.

9 DECK SUPPORT AT COLUMNS
N.T.S.

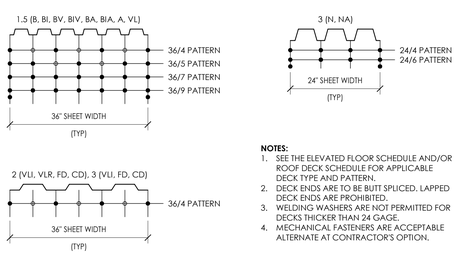


NOTE;
SEE ARCH ROOF PLANS AND MECH DWGS FOR SIZE AND LOCATION OF ROOF OPENINGS

10 FRAMING FOR ROOF OPENING
N.T.S.

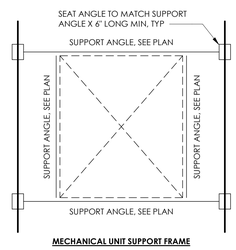


11 COMPOSITE FLOOR DECK ATTACHMENT
N.T.S.

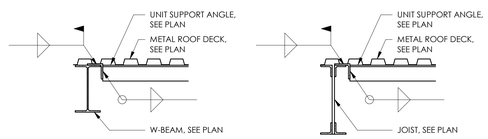


NOTES:
1. SEE THE ELEVATED FLOOR SCHEDULE AND/OR ROOF DECK SCHEDULE FOR APPLICABLE DECK TYPE AND PATTERN.
2. DECK ENDS ARE TO BE BUTT SPLICED. LAPPED DECK ENDS ARE PROHIBITED.
3. WELDING WASHERS ARE NOT PERMITTED FOR DECKS THICKER THAN 24 GAGE.
4. MECHANICAL FASTENERS ARE ACCEPTABLE ALTERNATE AT CONTRACTOR'S OPTION.

12 METAL DECK FASTENING LAYOUT
N.T.S.



MECHANICAL UNIT SUPPORT FRAME



W-BEAM CONDITION **JOIST CONDITION**

NOTES:
1. COORDINATE LOCATION WITH ACTUAL EQUIPMENT TO BE INSTALLED AND WITH MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS.

13 MECHANICAL UNIT SUPPORT
N.T.S.

40 Beaver St. - Albany - New York 12207-1511
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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK · LAURA C. ALEXANDER · LICENSED PROFESSIONAL ENGINEER · 109511
Expiration Date: 03/31/2028
Certificate of Authorization: 021475

NO.	DATE	DESCRIPTION

Drawn By:	SDO
Checked By:	LCA
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Construction Documents:	03/12/2026

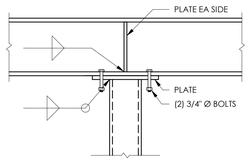
Sheet Title
TYPICAL STEEL DETAILS

Sheet No.
TR S504

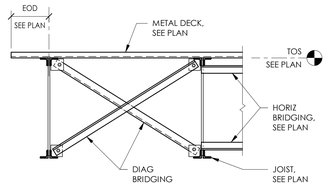
CONSTRUCTION DOCUMENTS

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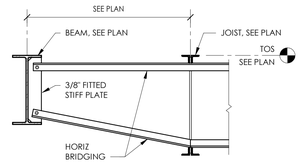
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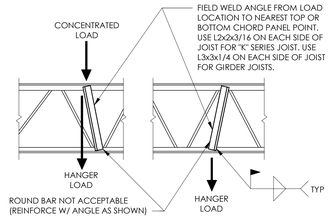
1 TUBE COLUMN CAP PLATE
N.T.S.



2 JOIST BRIDGING LINE TERMINATION AT JOIST
N.T.S.

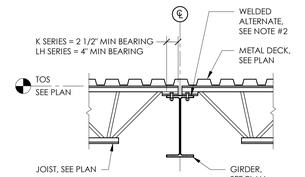


3 JOIST BRIDGING LINE TERMINATION AT BEAM
N.T.S.



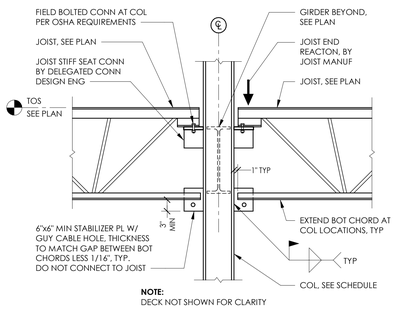
NOTES:
1. MODIFICATION IS TYP FOR ALL JOISTS SUPPORTING LOAD FROM TOP OR BOTTOM CHORD BETWEEN PANEL POINTS. VERIFY LOCATION AND NUMBER OF LOADS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. JOIST MANUFACTURER TO SHOW REINFORCING AT ALL CONCENTRATED LOADS WHOSE EXACT LOCATION IS SHOWN ON DRAWINGS.
3. ANY EXISTING JOIST TO BE WELDED SHALL BE COMPLETELY SHORED DUE TO TEMPORARY LOSS OF STEEL STRENGTH DURING WELDING OPERATIONS.

4 TYPICAL JOIST REINFORCING DETAIL
N.T.S.



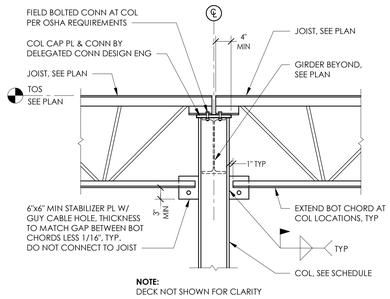
NOTES:
1. OFFSET JOISTS IF BEAM FLANGE WIDTH WILL NOT PERMIT END TO END BEARING ARRANGEMENT SHOWN.
2. 1 1/8" FILLET WELD EACH SIDE OF SET FOR K-SERIES. 2" OF 1/4" FILLET WELD EACH SIDE OF SEAT FOR LH-SERIES.
3. (1) 1/2" DIA HIGH STRENGTH BOLT EACH SIDE OF SEAT FOR K-SERIES. (1) 3/4" DIA HIGH STRENGTH BOLT EACH SIDE OF SEAT FOR LH-SERIES.
4. SHEAR COLLECTOR NOT SHOWN.

5 JOIST BEARING ON GIRDER
N.T.S.



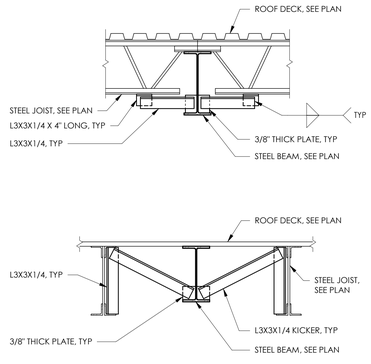
NOTE:
DECK NOT SHOWN FOR CLARITY

6 JOIST TO COLUMN CONNECTION
N.T.S.

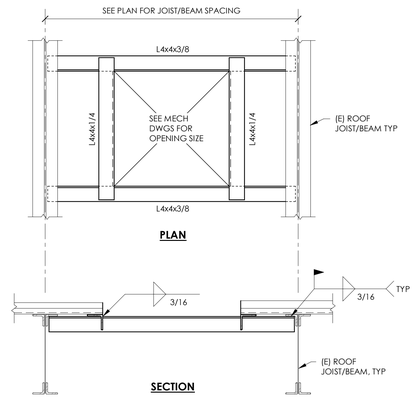


NOTE:
DECK NOT SHOWN FOR CLARITY

7 JOIST TO TOP OF COLUMN CONNECTION
N.T.S.

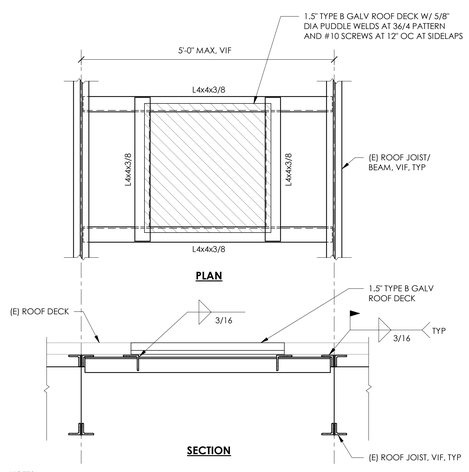


8 BEAM BOTTOM FLANGE BRACE
N.T.S.



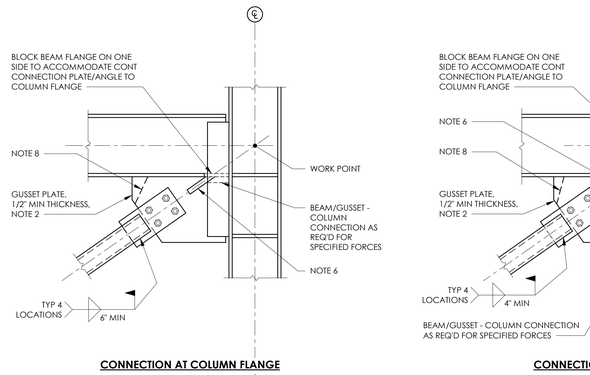
NOTE:
1. COORDINATE OPENING SIZE AND LOCATIONS WITH MECHANICAL DRAWINGS.
2. INSTALL OPENING FRAME TIGHT UNDER EXISTING ROOF DECK.
3. CUT OPENING IN EXISTING ROOF.

9 OPENING IN EXISTING ROOF
N.T.S.

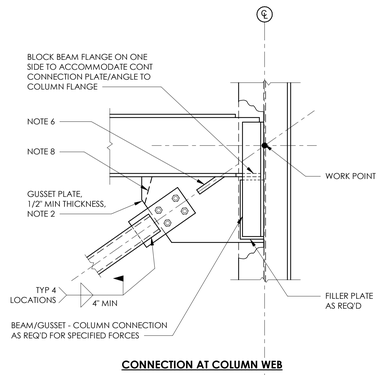


NOTES:
1. COORDINATE INFILL LOCATIONS WITH ARCHITECTURAL DRAWINGS.
2. INSTALL OPENING FRAME TIGHT UNDER EXISTING ROOF DECK.
3. SEE THE ELEVATED FLOOR SCHEDULE AND/OR ROOF DECK SCHEDULE FOR APPLICABLE DECK TYPE AND PATTERN.
4. DECK ENDS ARE TO BE BUTT SPLICED. LAPPED DECK ENDS ARE PROHIBITED.
5. WELDING WASHERS ARE NOT PERMITTED FOR DECKS THICKER THAN 24 GAGE.
6. MECHANICAL FASTENERS ARE ACCEPTABLE ALTERNATE AT CONTRACTOR'S OPTION.

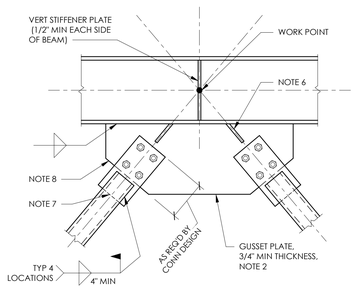
10 TYPICAL (E) ROOF OPENING INFILL
N.T.S.



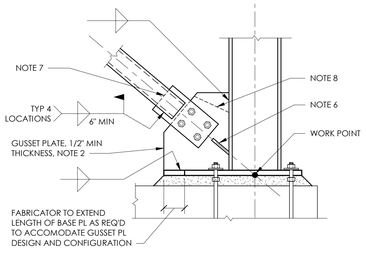
CONNECTION AT COLUMN FLANGE



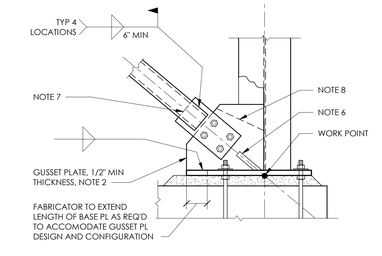
CONNECTION AT COLUMN WEB



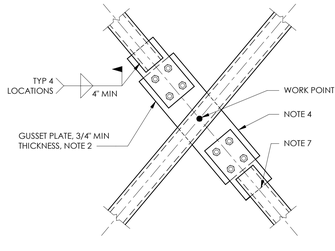
CONNECTION AT HSS-CHEVRON



CONNECTION AT COLUMN BASE FLANGE



CONNECTION AT COLUMN BASE WEB



CONNECTION AT HSS-BRACE INTERSECTION

NOTES:
1. THE DETAILS SHOW THE DESIRED GENERIC CONFIGURATION TO BE INCORPORATED INTO THE FABRICATOR'S DELEGATED DESIGN. FABRICATOR'S DESIGN AND DETAILING TO FOLLOW PROJECT SPECIFICATIONS, PLANS, AND DESIGN FORCES INDICATED ON THE DRAWINGS. ACTUAL GEOMETRY AND DIMENSIONS OF GUSSET WILL VARY. SUBMIT DELEGATED DESIGN CALCULATIONS IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND GENERAL NOTES.
2. T=GUSSET PLATE THICKNESS AS DETERMINED BY FABRICATOR'S DESIGN.
3. BOLT QUANTITY AND WELD SIZE/LENGTH SHOWN ARE MINIMUM, TO BE CONFIRMED BY FABRICATORS DELEGATED DESIGN ENGINEER.
4. THROUGH PLATE CONNECTION (1/2" THICK PLATE MIN) AT COLUMN WHERE THERE ARE BRACES ON BOTH SIDES OF COLUMN AND THERE IS A TRANSFER FORCE BETWEEN THEM INDICATED ON DRAWINGS.
5. BOLTS AT CONNECTION TO COLUMN: A325, MIN DIAMETER = 1". SLIP CRITICAL IF OVERSIZE OR HORIZONTAL SLOT HOLES IN PLANE OF BRACE, U.O.N.,.
6. ADD STIFFENERS ON EACH SIDE OF GUSSET IF AND AS REQUIRED BY WHITMORE SECTION CALCULATIONS. RECONFIGURE CONNECTIONS TO COLUMN AS REQUIRED BY STIFFENERS.
7. REDUCED SECTION REINFORCEMENT PLATE IF AND AS REQUIRED.
8. GUSSET PLATES SHOWN WITH VERTICAL AND HORIZONTAL EDGES. ANGLED CUTS MAY BE PROVIDED AT FABRICATOR'S DISCRETION OR IF REQUIRED BY THE GENERAL CONTRACTOR'S COORDINATION WITH OTHER TRADES.
9. SLAB CONSTRUCTION NOT SHOWN FOR CLARITY.

11 BRACED FRAME DETAILS
N.T.S.

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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT
Project Title

STATE OF NEW YORK
LAURA C. ALEXANDER
105511
LICENSED PROFESSIONAL ENGINEER
Expiration Date: 03/31/2028
Certificate of Authorization: 021475

#	DATE	DESCRIPTION

Drawn By: SBR
Checked By: LCA
Proj. #: 03-02-00-01-0-010-016
CSArch Proj. #: 215-2402
Construction Documents: 03/12/2026

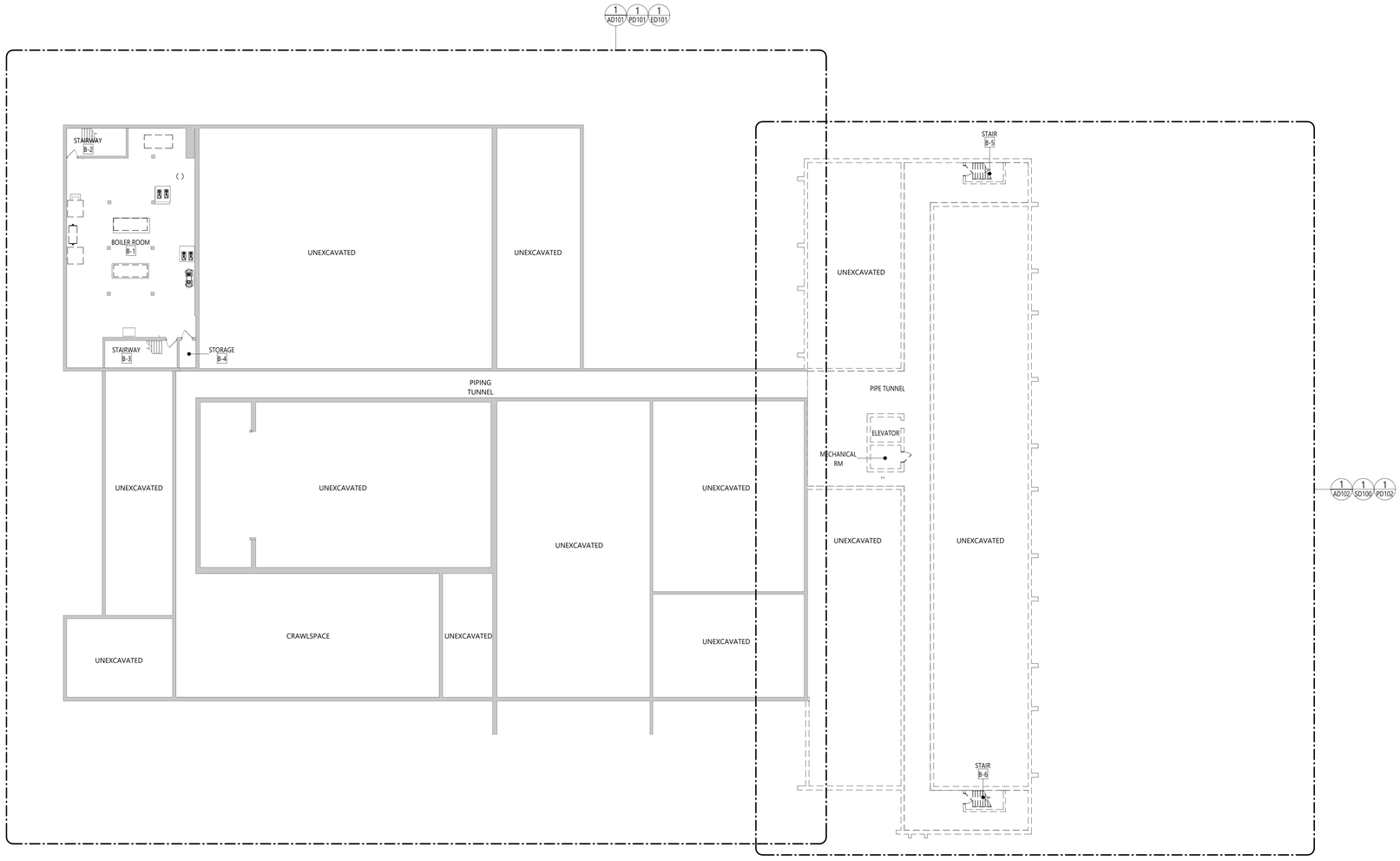
Sheet Title
TYPICAL STEEL DETAILS

Sheet No.
TR
S505

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1 AD100 OVERALL BASEMENT FLOOR DEMOLITION PLAN 1/16" = 1'-0"

N

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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

REGISTERED ARCHITECT
JOHN DAVID SARGENT
No. 025852-1
STATE OF NEW YORK
EXPIRES: 1/31/2026

V.	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Issued for Bid:	03/12/2026

Sheet Title
OVERALL BASEMENT FLOOR DEMOLITION PLAN

Sheet No.
TR
AD100

CONSTRUCTION DOCUMENTS



1 AD101 BASEMENT FLOOR DEMOLITION PLAN - AREA '1'
1/8" = 1'-0"

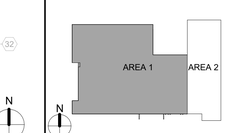
GENERAL NOTES

1. COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION.
2. PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN WALLS (DUE TO REMOVAL) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION.
3. SALVAGED ITEMS SHALL BE TURNED OVER TO OWNER, UNO
4. ALL KEYED REMOVALS SHALL INCLUDE REMOVAL OF ANY AND ALL ANCHORING SYSTEMS INCLUDING OBJECTS EMBEDDED INTO EXISTING WALLS.
5. REFER TO ASBESTOS, MEP, AND STRUCTURAL DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION.
6. PROVIDE TEMPORARY SHORING AS NECESSARY AT ALL AREAS OF WALL REMOVAL AND NEW WALL PENETRATIONS.
7. DRILL CORNERS OF ALL NEW SAWCUT OPENING PRIOR TO SAWCUTTING, TO PREVENT CUTTING INTO SCHEDULED CONSTRUCTION TO REMAIN.
8. REMOVE ALL TOILET ROOM ACCESSORIES INCLUDING BUT NOT LIMITED TO SOAP DISPENSERS, PAPER TOWEL DISPENSERS, TOILET PAPER DISPENSERS, ETC.

KEYNOTES

#	DESCRIPTION
M.1	REMOVE MECH EQUIP. SEE 'M' DWGS.

KEY PLAN



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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

REGISTERED ARCHITECT
GREGORY J. MARTIN
026-025853-1
STATE OF NEW YORK
EXPIRES: 1/31/2026

#	DATE	DESCRIPTION

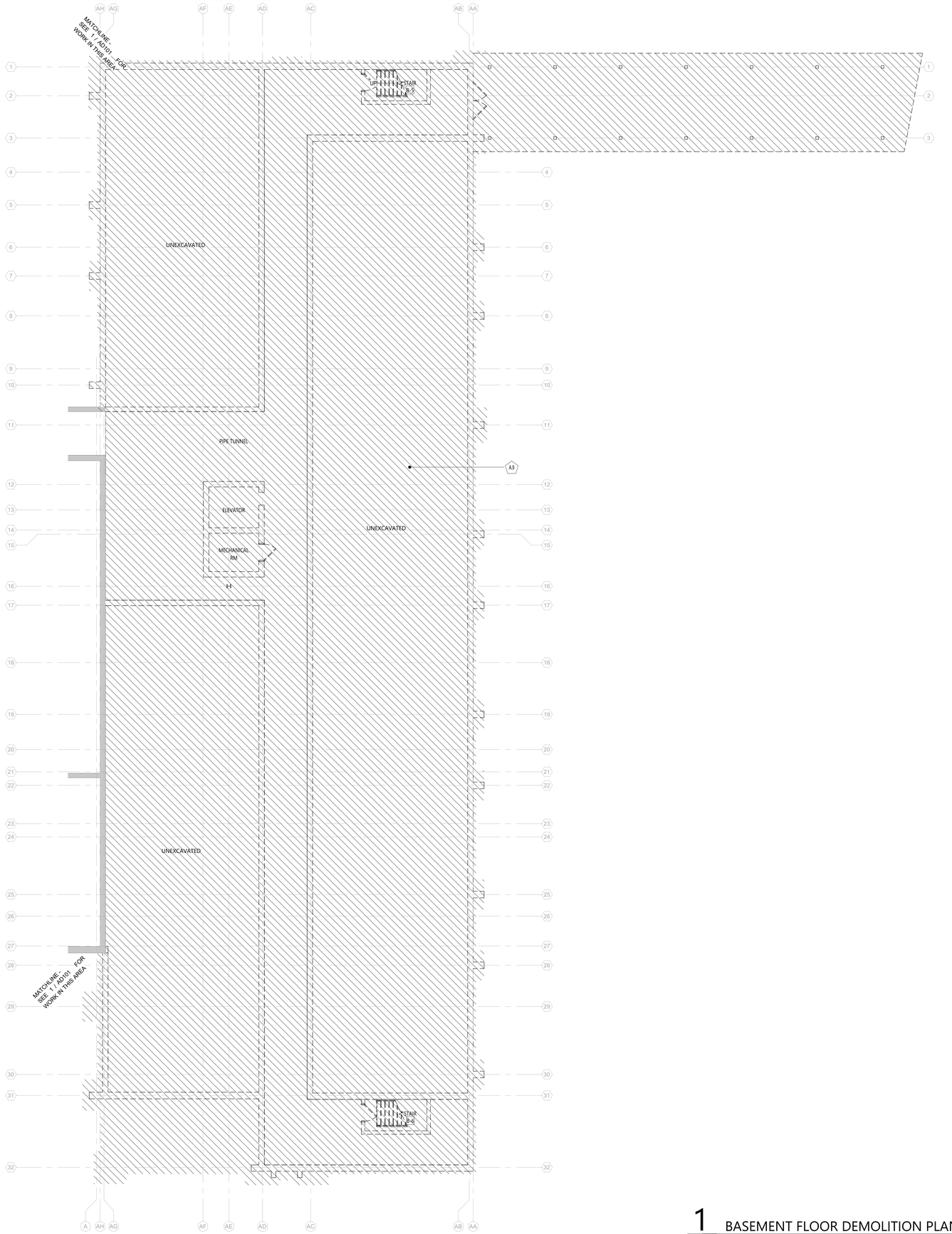
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Sheet Title
PARTIAL BASEMENT FLOOR DEMOLITION PLAN - AREA '1'

Sheet No.
TR
AD101

CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES.rvt



1 BASEMENT FLOOR DEMOLITION PLAN - AREA '2'
AD102 1/8" = 1'-0"

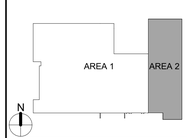
GENERAL NOTES

1. COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION.
2. PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN WALLS (DUE TO REMOVAL) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION.
3. SALVAGED ITEMS SHALL BE TURNED OVER TO OWNER, UNO
4. ALL KEYED REMOVALS SHALL INCLUDE REMOVAL OF ANY AND ALL ANCHORING SYSTEMS INCLUDING OBJECTS EMBEDDED INTO EXISTING WALLS.
5. REFER TO ASBESTOS, MEP, AND STRUCTURAL DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION.
6. PROVIDE TEMPORARY SHORING AS NECESSARY AT ALL AREAS OF WALL REMOVAL AND NEW WALL PENETRATIONS.
7. DRILL CORNERS OF ALL NEW SAWCUT OPENING PRIOR TO SAWCUTTING, TO PREVENT CUTTING INTO SCHEDULED CONSTRUCTION TO REMAIN.
8. REMOVE ALL TOILET ROOM ACCESSORIES INCLUDING BUT NOT LIMITED TO SOAP DISPENSERS, PAPER TOWEL DISPENSERS, TOILET PAPER DISPENSERS, ETC.

KEYNOTES

#	DESCRIPTION
A.9	DEMOLISH ENTIRE 3-STORY CLASSROOM WING AND EAST CANOPY, INCLUDING FOUNDATIONS, SLAB, AND STRUCTURE. SEE "HZ", "S", AND MEP DWGS FOR ADDITIONAL INFORMATION.

KEY PLAN



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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT



EXPIRES: 1/31/2026

#	DATE	DESCRIPTION

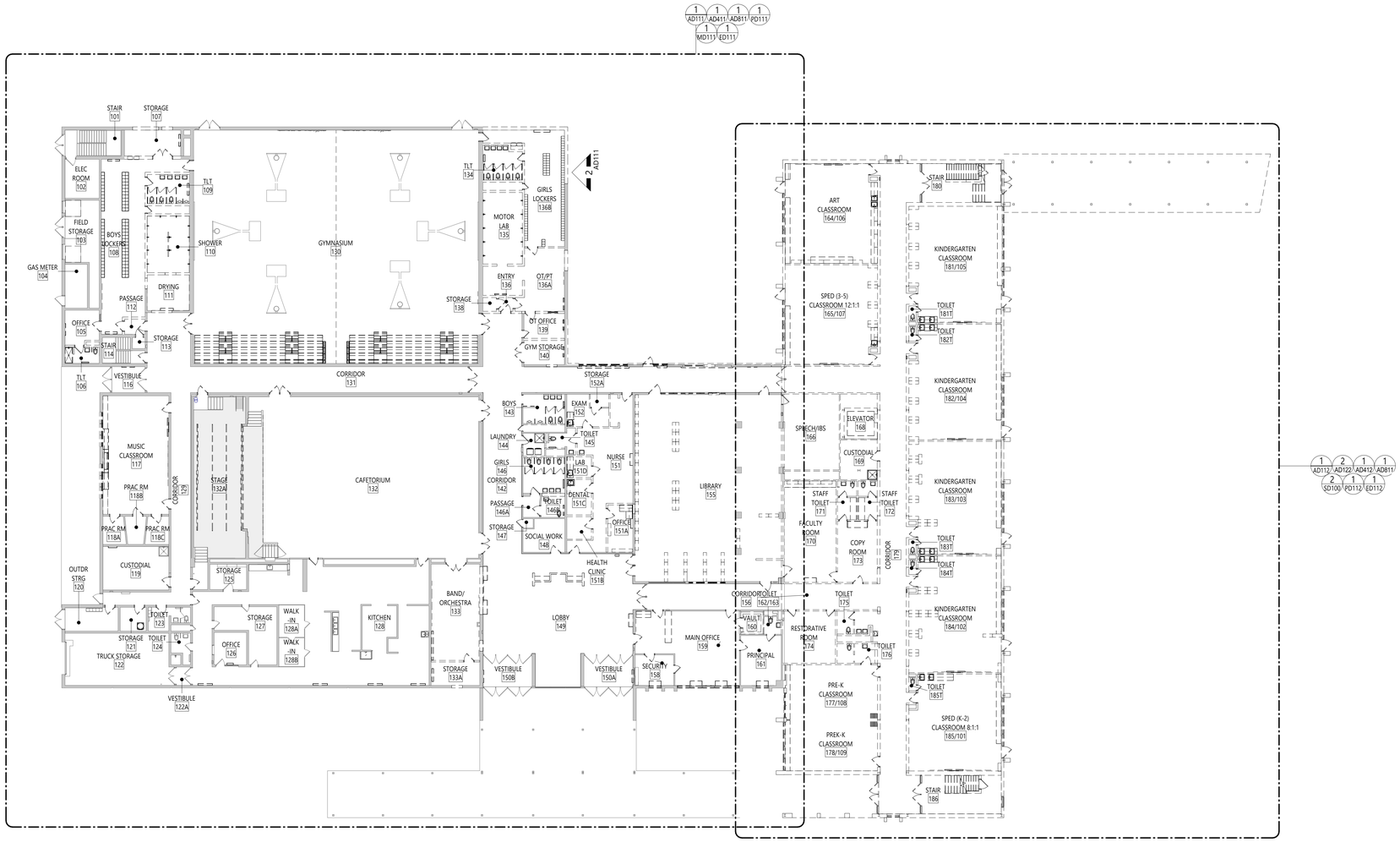
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Sheet Title
PARTIAL BASEMENT FLOOR DEMOLITION PLAN - AREA '2'

Sheet No.
TR
AD102

CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES.rvt



1 OVERALL FIRST FLOOR DEMOLITION PLAN
AD110 1/16" = 1'-0"

N

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Project Title

BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

REGISTERED ARCHITECT
CHRISTOPHER MARK SCHUTT
028865
STATE OF NEW YORK
EXPIRES: 1/31/2026

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Sheet Title

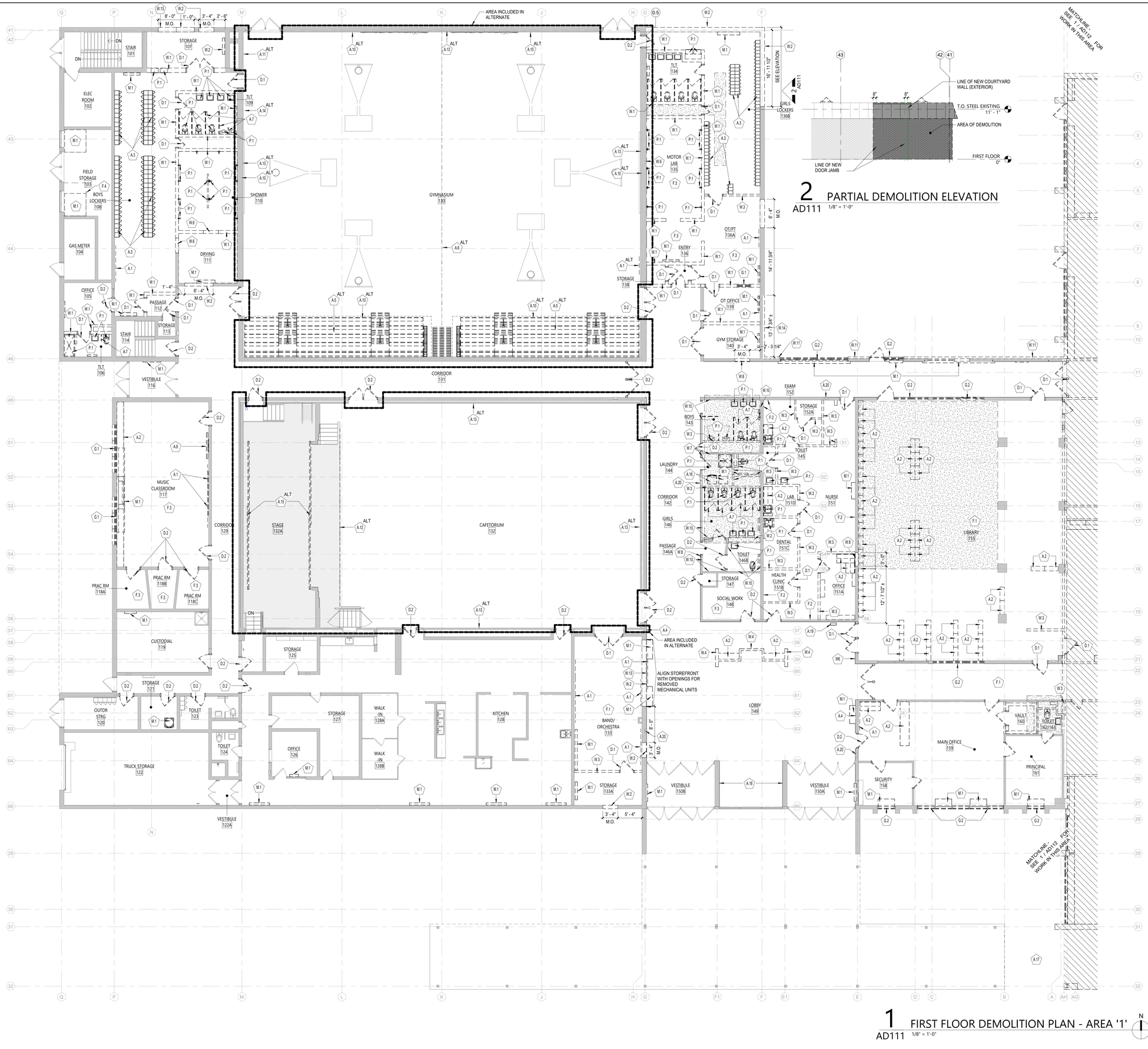
OVERALL FIRST FLOOR DEMOLITION PLAN

Sheet No.

TR
AD110

CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES.rvt



1 FIRST FLOOR DEMOLITION PLAN - AREA '1'
AD111 1/8" = 1'-0"

2 PARTIAL DEMOLITION ELEVATION
AD111 1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION.
2. PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN WALLS (DUE TO REMOVAL) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION.
3. SALVAGED ITEMS SHALL BE TURNED OVER TO OWNER, UNO
4. ALL KEYED REMOVALS SHALL INCLUDE REMOVAL OF ANY AND ALL ANCHORING SYSTEMS INCLUDING OBJECTS EMBEDDED INTO EXISTING WALLS.
5. REFER TO ASBESTOS, MEP, AND STRUCTURAL DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION.
6. PROVIDE TEMPORARY SHORING AS NECESSARY AT ALL AREAS OF WALL REMOVAL AND NEW WALL PENETRATIONS.
7. DRILL CORNERS OF ALL NEW SAWCUT OPENING PRIOR TO SAWCUTTING, TO PREVENT CUTTING INTO SCHEDULED CONSTRUCTION TO REMAIN.
8. REMOVE ALL TOILET ROOM ACCESSORIES INCLUDING BUT NOT LIMITED TO SOAP DISPENSERS, PAPER TOWEL DISPENSERS, TOILET PAPER DISPENSERS, ETC.

KEYNOTES

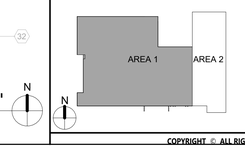
#	DESCRIPTION
A.1	REMOVE WALL-MOUNTED EQUIP. INCLUDING ALL WHITEBOARDS, TACKBOARDS, PROJECTION SCREENS, AND MAP ROLLS. TURN OVER TO DISTRICT. SEE'E' DWGS FOR ADDITIONAL REMOVALS.
A.2	REMOVE CASEWORK IN ITS ENTIRETY, INCLUDING ALL BLOCKING, FASTENERS, AND BASE. SEE TO 'E' AND 'P' DWGS FOR ADDITIONAL REMOVALS.
A.3	REMOVE LOCKERS AND ALL ASSOCIATED BLOCKING AND BASE BELOW. SAWCUT FLOOR AT EDGE OF BASE TO PROVIDE CLEAN EDGE.
A.4	REMOVE PLAQUES AND STORE FOR RELOCATION.
A.5	REMOVE BLEACHERS IN THEIR ENTIRETY.
A.6	REMOVE OPERABLE DIVIDER WALL IN ITS ENTIRETY, INCLUDING CORRESPONDING CONTROL SYSTEMS. SEE MEP DWGS.
A.7	REMOVE TOILET AND URINAL PARTITIONS IN THEIR ENTIRETY INCLUDING FASTENERS, GRAB BARS, TOILET PAPER HOLDERS, ETC.
A.8	REMOVE INTERACTIVE WHITE BOARD AND TURN OVER TO DISTRICT.
A.10	REMOVE WOODEN BACKSTOP BLOCKING IN ITS ENTIRETY.
A.11	REMOVE PULL-UP BAR IN ITS ENTIRETY.
A.12	REMOVE WOODEN STAGE FRONT IN ITS ENTIRETY.
A.13	REMOVE ACOUSTIC PANELS IN THEIR ENTIRETY. SEE 'HZ' DWGS.
A.14	REMOVE SCOREBOARD IN ITS ENTIRETY.
A.15	REMOVE STAGE CURTAINS.
A.16	OWNER TO REMOVE APPLIANCES.
A.17	REMOVE PORTION OF CANOPY. SEE 'S' DWGS FOR ADDITIONAL INFORMATION.
A.18	REMOVE WOOD MURAL ATTACHED TO WALL. TURN OVER TO DISTRICT.
A.19	REMOVE AED AND STORE FOR RELOCATION.
A.20	REMOVE FIRE EXTINGUISHER CABINETS STORE FOR REINSTALLATION.
D.1	REMOVE DOOR, HARDWARE, AND FRAME IN ITS ENTIRETY.
D.2	REMOVE DOOR AND HARDWARE. FRAME TO REMAIN.
F.1	REMOVE FLOOR FINISH, INCLUDING ALL PADDING, ADHESIVES AND WALL BASE, TO SLAB.
F.2	REMOVE TERRAZZO BASE.
F.3	REMOVE FLOOR FINISH, INCLUDING ALL PADDING, ADHESIVES AND WALL BASE, TO TILE FLOOR BELOW.
F.4	SAWCUT AND REMOVE PORTION OF CONCRETE FLOOR, SEE 'M' AND 'S' DWGS.
G.1	REMOVE WINDOW SYSTEM IN ITS ENTIRETY, INCLUDING ALL FLASHING AND FASTENERS.
G.2	REMOVE STOREFRONT SYSTEM IN ITS ENTIRETY, INCLUDING ALL FLASHINGS, FASTENERS AND ASSOCIATED LOUVERS.
M.1	REMOVE MECH EQUIP. SEE 'M' DWGS.
P.1	REMOVE PLUMBING FIXTURE. SEE 'P' DWGS.
W6	PROVIDE TILE WAINSCOT OVER EXISTING TILE. MATCH HEIGHT OF EXISTING TILE WAINSCOT. SEE 'AF' DWGS.
W.1	SAWCUT AND REMOVE MASONRY WALL IN ITS ENTIRETY. SALVAGE GLAZED BLOCKS AND STORE FOR INFILL. COORDINATE REMOVAL WITH NEW WORK.
W.2	SAWCUT AND REMOVE MASONRY WALL FOR EXTENT SHOWN. COORDINATE REMOVAL WITH NEW WORK.
W.3	REMOVE STUD PARTITION IN ITS ENTIRETY.
W.4	REMOVE HALF-HEIGHT MASONRY WALL IN ITS ENTIRETY.
W.6	REMOVE CONCRETE CURB IN ITS ENTIRETY.
W.7	REMOVE TILE WAINSCOT IN IT ENTIRETY.
W.8	REMOVE STUD PARTITION FOR EXTENT SHOWN. COORDINATE REMOVAL WITH NEW WORK.
W.9	REMOVE WALL COVERING IN ITS ENTIRETY.
W.10	REMOVE WALL TILE IN ITS ENTIRETY.
W.11	REMOVE BRICK DOWN TO STUD.
W.13	SALVAGE BRICK FOR INSTALLATION WHERE INDICATED.
W.14	REMOVE BRICK DOWN TO CMU.

LEGEND

SCOPE OF WORK IN THIS AREA TO BE INCLUDED AS ALTERNATE (DOORS AND MECHANICAL SCOPE TO REMAIN IN BASE BID)

AREA OF SLAB REMOVAL TO ACCOMMODATE PLUMBING REMOVALS. COORDINATE WITH 'P' DWGS FOR SCOPE.

KEY PLAN



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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

REGISTERED ARCHITECT BRIAN K. SWEENEY No. 028853 STATE OF NEW YORK
EXPIRES: 1/31/2026

#	DATE	DESCRIPTION

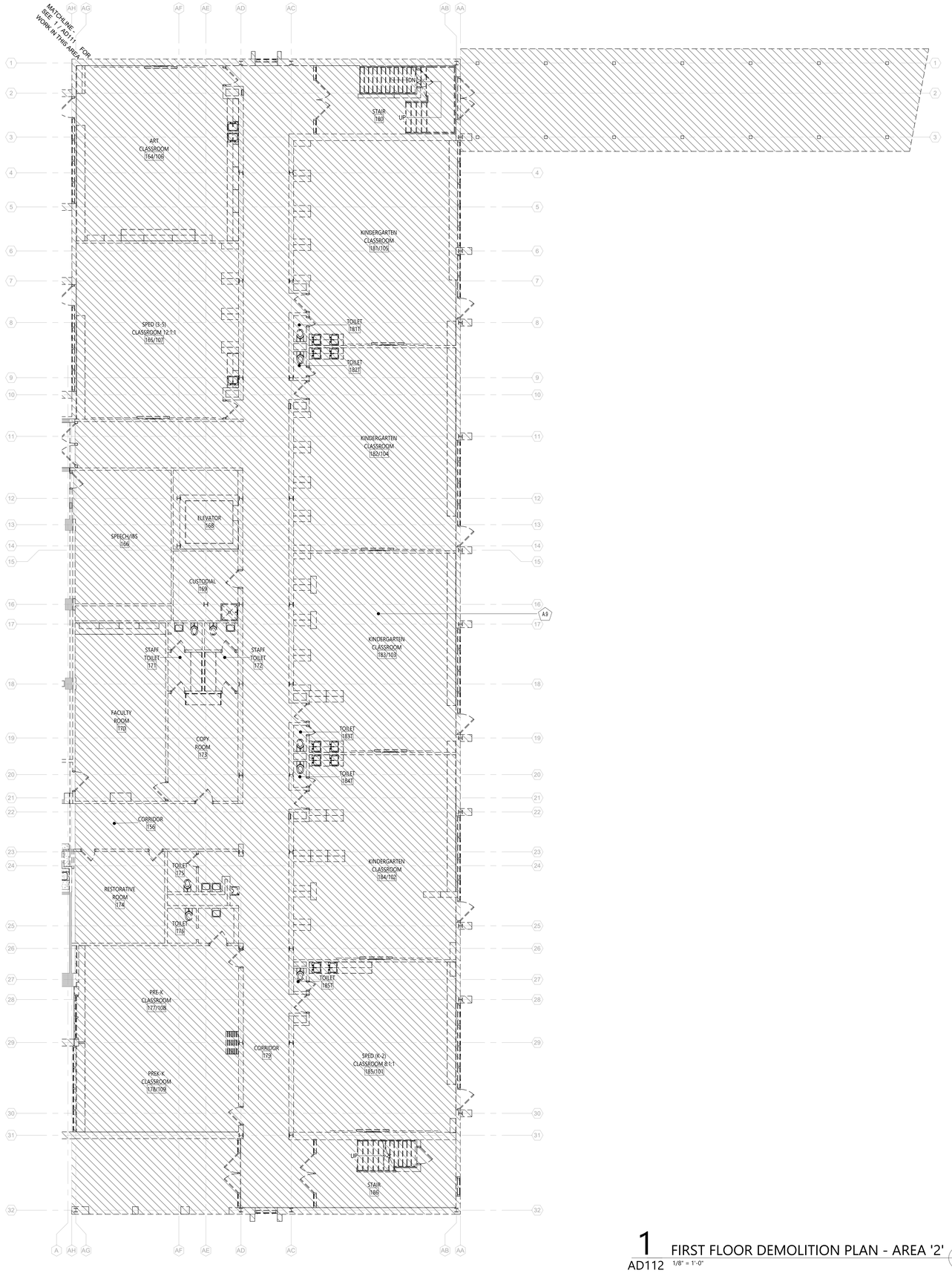
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CSArch Proj. #:	215-2402
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Sheet Title
PARTIAL FIRST FLOOR DEMOLITION PLAN - AREA '1'

Sheet No.
TR
AD111

CONSTRUCTION DOCUMENTS

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1 AD112 FIRST FLOOR DEMOLITION PLAN - AREA '2'
1/8" = 1'-0"

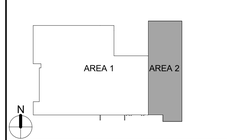
GENERAL NOTES

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2. PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN WALLS (DUE TO REMOVAL) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION.
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5. REFER TO ASBESTOS, MEP, AND STRUCTURAL DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION.
6. PROVIDE TEMPORARY SHORING AS NECESSARY AT ALL AREAS OF WALL REMOVAL AND NEW WALL PENETRATIONS.
7. DRILL CORNERS OF ALL NEW SAWCUT OPENING PRIOR TO SAWCUTTING, TO PREVENT CUTTING INTO SCHEDULED CONSTRUCTION TO REMAIN.
8. REMOVE ALL TOILET ROOM ACCESSORIES INCLUDING BUT NOT LIMITED TO SOAP DISPENSERS, PAPER TOWEL DISPENSERS, TOILET PAPER DISPENSERS, ETC.

KEYNOTES

#	DESCRIPTION
A.9	DEMOLISH ENTIRE 3-STORY CLASSROOM WING AND EAST CANOPY, INCLUDING FOUNDATIONS, SLAB, AND STRUCTURE. SEE "HZ", "S", AND MEP DWGS FOR ADDITIONAL INFORMATION.

KEY PLAN



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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

REGISTERED ARCHITECT
CHRISTOPHER J. SCHNEIDER
No. 025852-1
STATE OF NEW YORK
EXPIRES: 1/31/2026

#	DATE	DESCRIPTION

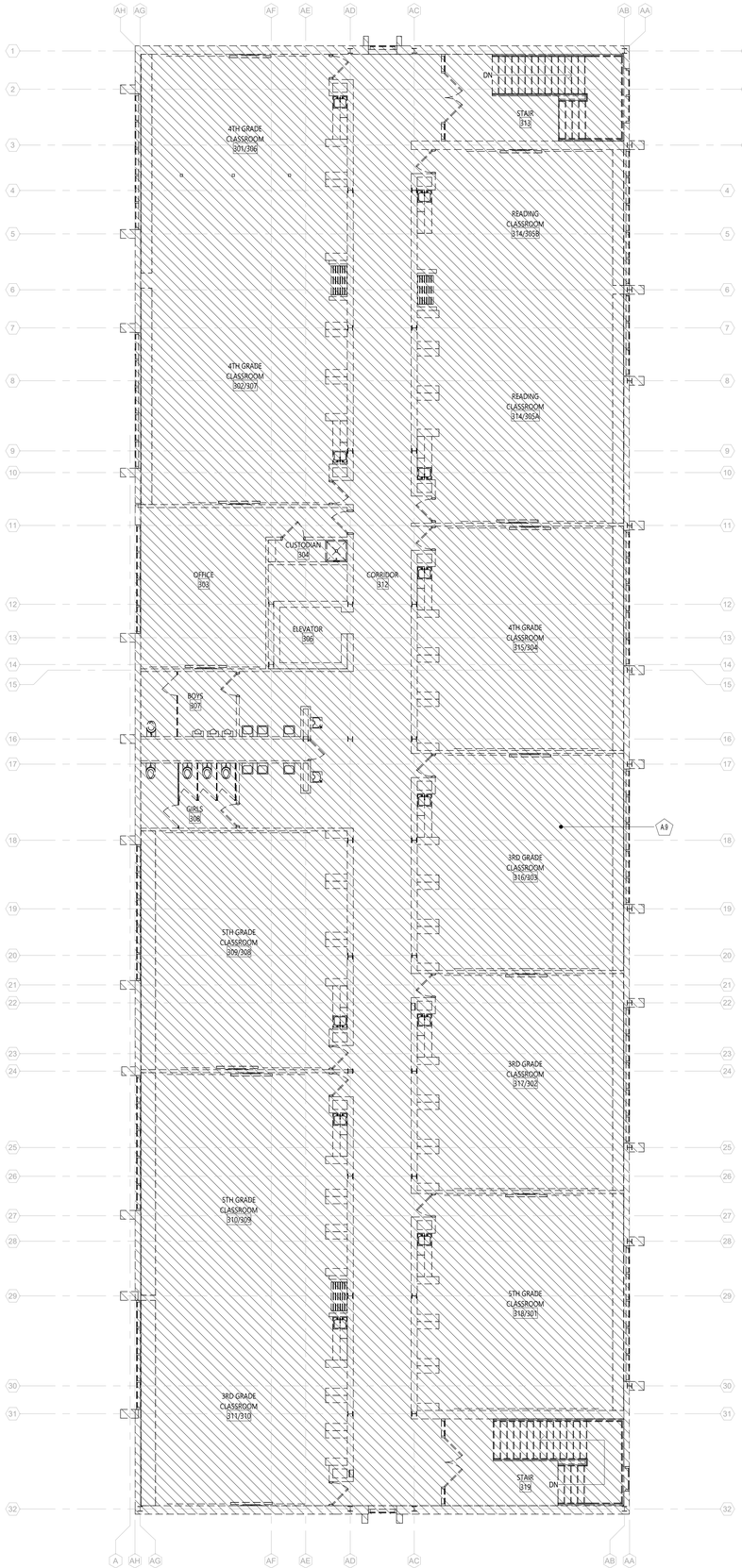
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Sheet Title
PARTIAL FIRST FLOOR DEMOLITION PLAN - AREA '2'

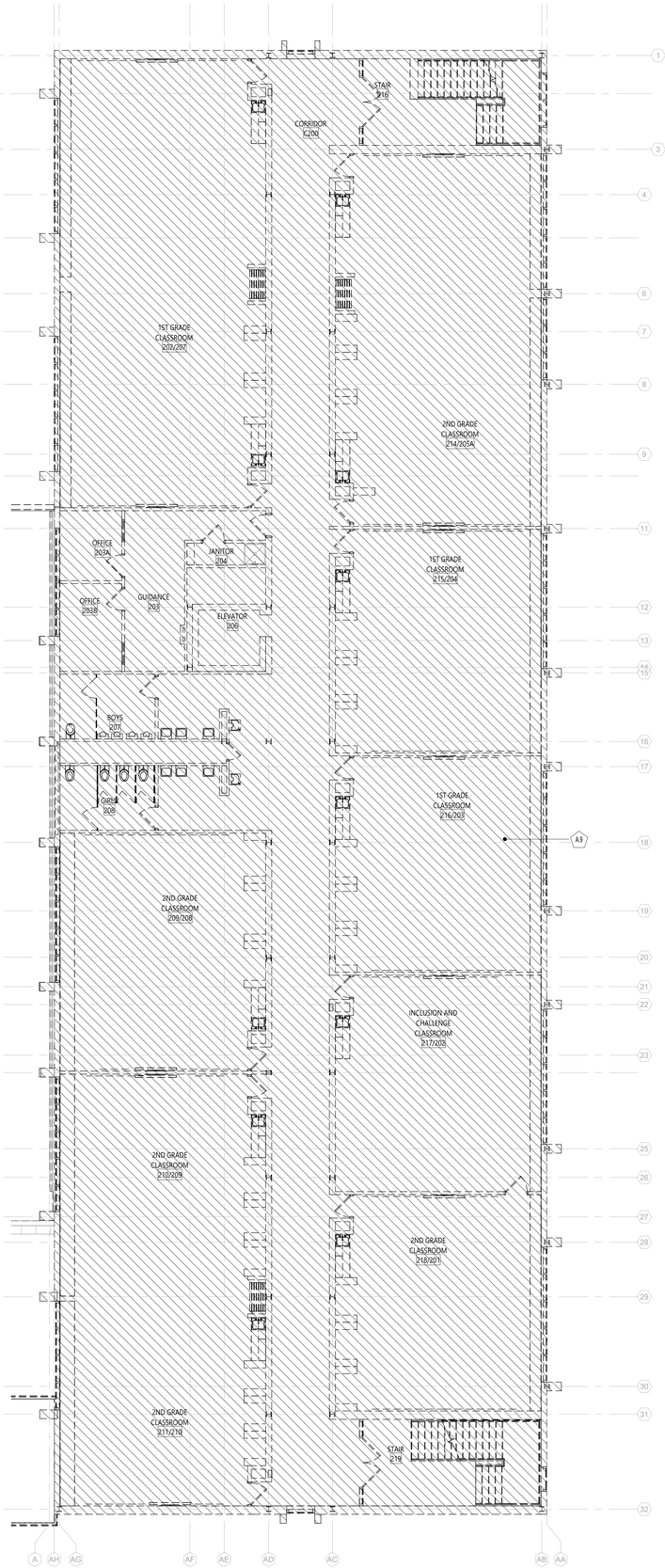
Sheet No.
TR
AD112

CONSTRUCTION DOCUMENTS

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2 THIRD FLOOR DEMOLITION PLAN - AREA '2'
AD122 1/8" = 1'-0"



1 SECOND FLOOR DEMOLITION PLAN - AREA '2'
AD122 1/8" = 1'-0"

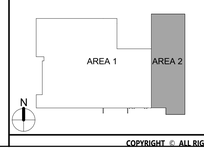
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8. REMOVE ALL TOILET ROOM ACCESSORIES INCLUDING BUT NOT LIMITED TO SOAP DISPENSERS, PAPER TOWEL DISPENSERS, TOILET PAPER DISPENSERS, ETC.

KEYNOTES

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A.9	DEMOLISH ENTIRE 3-STORY CLASSROOM WING AND EAST CANOPY, INCLUDING FOUNDATIONS, SLAB, AND STRUCTURE. SEE "HZ", "S", AND MEP DWGS FOR ADDITIONAL INFORMATION.

KEY PLAN



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THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

REGISTERED ARCHITECT CHRISTOPHER J. MARTINSON 025803 STATE OF NEW YORK
EXPIRES: 1/31/2026

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Sheet Title
SECOND AND THIRD FLOOR DEMOLITION PLANS - AREA '2'

Sheet No.
TR
AD122

CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES.rvt



1 ROOF DEMOLITION PLAN - AREA '1'
AD411 1/8" = 1'-0"

ROOF DEMOLITION NOTES

1. COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION.
2. PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN ROOFS (DUE TO REMOVALS) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION.
3. ALL KEYED REMOVALS SHALL INCLUDE REMOVAL OF ANY AND ALL ANCHORING SYSTEMS INCLUDING OBJECTS EMBEDDED INTO EXISTING CONSTRUCTION.
4. ALL EXISTING ROOF DRAINS, VENTS AND MECHANICAL EQUIPMENT ARE TO REMAIN, UNO.
5. EXISTING ROOF BLOCKING TO REMAIN, UNO. COORDINATE WITH NEW CONSTRUCTION.
6. REFER TO HAZARDOUS MATERIAL, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF DESCRIPTIONS

ROOF AREA '1' - EXISTING CONSTRUCTION
1. FULLY ADHERED EPDM ROOF MEMBRANE SYSTEM
2. (2) LAYERS OF 2.6" ROOF INSULATION (R-30 MIN)
3. 1/2" DENSDECK ROOF BOARD
4. EXISTING TECTUM ROOF DECK WITH VAPOR BARRIER (MOPPED TO TECTUM DECK).

ROOF AREAS '2 - 8' - EXISTING CONSTRUCTION
1. FULLY ADHERED EPDM ROOF MEMBRANE SYSTEM
2. (2) LAYERS OF 2.6" ROOF INSULATION (R-30 MIN)
3. 1/2" DENSDECK ROOF BOARD
4. EXISTING METAL ROOF DECK W/ LIGHT WEIGHT VERMICULITE FILL EXISTING VAPOR BARRIER TO REMAIN.

ROOF AREA '9' - EXISTING CONSTRUCTION
1. FULLY ADHERED EPDM ROOF MEMBRANE SYSTEM
2. (2) LAYERS OF 2.6" ROOF INSULATION (R-30 MIN)
3. 1/2" DENSDECK ROOF BOARD
4. EXISTING CONCRETE DECK

ROOF AREA '10' - EXISTING CONSTRUCTION
1. FULLY ADHERED EPDM ROOF MEMBRANE SYSTEM
2. (2) LAYERS OF 2.6" ROOF INSULATION (R-30 MIN)
3. 1/2" DENSDECK ROOF BOARD
4. EXISTING METAL ROOF DECK, EXISTING VAPOR BARRIER TO REMAIN.

ROOF AREA '11' - NEW CONSTRUCTION
1. FULLY ADHERED EPDM ROOF MEMBRANE SYSTEM
2. (2) LAYERS OF 2.6" ROOF INSULATION (R-30 MIN)
3. 1/2" DENSDECK ROOF BOARD
4. METAL ROOF DECK. REFER TO STRUCTURAL DRAWINGS

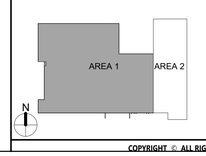
ROOF LEGEND

RD	ROOF DRAIN, REFER TO PLUMBING DRAWINGS
SD	SECONDARY DRAIN, REFER TO PLUMBING DRAWINGS
SC	ROOF SCUPPER
EV	EXISTING VENT PIPE, REFER TO PLUMBING DRAWINGS
V	VENT PIPE, REFER TO PLUMBING DRAWINGS
	ROOF PENETRATIONS, REFER TO MECHANICAL DRAWINGS
AH	ROOF ACCESS HATCH
	INDICATES DIRECTION OF SLOPE AT 1/4" PER FOOT MINIMUM, UNO
L	ROOF LADDER
EJ	EXPANSION JOINT
	AREAS OF WET INSULATION REMOVAL
	AREAS TO RECEIVE NEW COATING APPLICATION
	AREAS TO RECEIVE NEW INSULATION AND MEMBRANE

KEYNOTES

#	DESCRIPTION
A.17	REMOVE PORTION OF CANOPY. SEE 'S' DWGS FOR ADDITIONAL INFORMATION.
EJ	EXISTING EXPANSION JOINT
EMTR	EXISTING MECH EQUIP TO REMAIN, SEE 'M' DWGS
ERD	EXISTING ROOF DRAIN TO REMAIN, SEE 'P'DWGS
ETR	EXISTING TO REMAIN
EV	EXISTING VENT PIPE TO REMAIN
M.1	REMOVE MECH EQUIP. SEE 'M' DWGS.
M.2	PROVIDE ROOF OPENING AT EXISTING ROOF DECK FOR NEW MECHANICAL EQUIPMENT. COORDINATE WITH 'M' DWGS.
P.2	PLUMBING REMOVALS, SEE 'P' DWGS FOR ADDITIONAL REMOVALS.
P.3	REMOVE ROOF DRAIN, SEE 'P' DRAWINGS.
R.2	REMOVE SKYLIGHT ASSEMBLY IN ITS ENTIRETY, INCLUDING CURB, FLASHING AND ALL ASSOCIATED COMPONENTS. PATCH AND REPAIR ROOF TO MAINTAIN WEATHERPROOFING AND STRUCTURAL INTERGRITY.
R.3	CLEAN AND PREP ROOFING MEMBRANE SYSTEM. COORDINATE WITH NEW WORK.
R.4	CLEAN AND PREP LADDER FOR PAINT.
R.5	REMOVE SCUPPER IN ITS ENTIRETY.
R.7	REMOVE METAL STANDING SEAM PANELS AND SOFFIT PANEL AT MANSARD ROOF. SHEATHING, BLOCKING AND FRAMING TO REMAIN.
R.8	REMOVE PORTION OF MANSARD ROOF IN ITS ENTIRETY, COORDINATE REMOVALS WITH NEW WORK.
R.9	REMOVE ROOF-MOUNTED LIGHTING PROTECTION SYSTEM. VERIFY LOCATION IN FIELD.
R.14	REMOVE EXISTING GUTTER AND DOWNSPOUT SYSTEM.
R.15	REMOVE ROOF MEMBRANE AND WET INSULATION DOWN TO VAPOR BARRIER AT APPROXIMATE EXTENTS SHOWN. REFER TO REPORT FOR ADDITIONAL INFORMATION.
R.17	REMOVE SKYLIGHT ASSEMBLY IN ITS ENTIRETY, INCLUDING CURB, FLASHING AND ALL ASSOCIATED COMPONENTS. MAINTAIN ROOF OPENING. COORDINATE WITH NEW WORK.
W.12	REMOVE AND SALVAGE EXISTING LOUVER. COORDINATE WITH NEW WORK AND 'M'DWGS.

KEY PLAN



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Project Title
BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

REGISTERED ARCHITECT MARK PARISH 035885 STATE OF NEW YORK
EXPIRES: 1/31/2026

#	DATE	DESCRIPTION

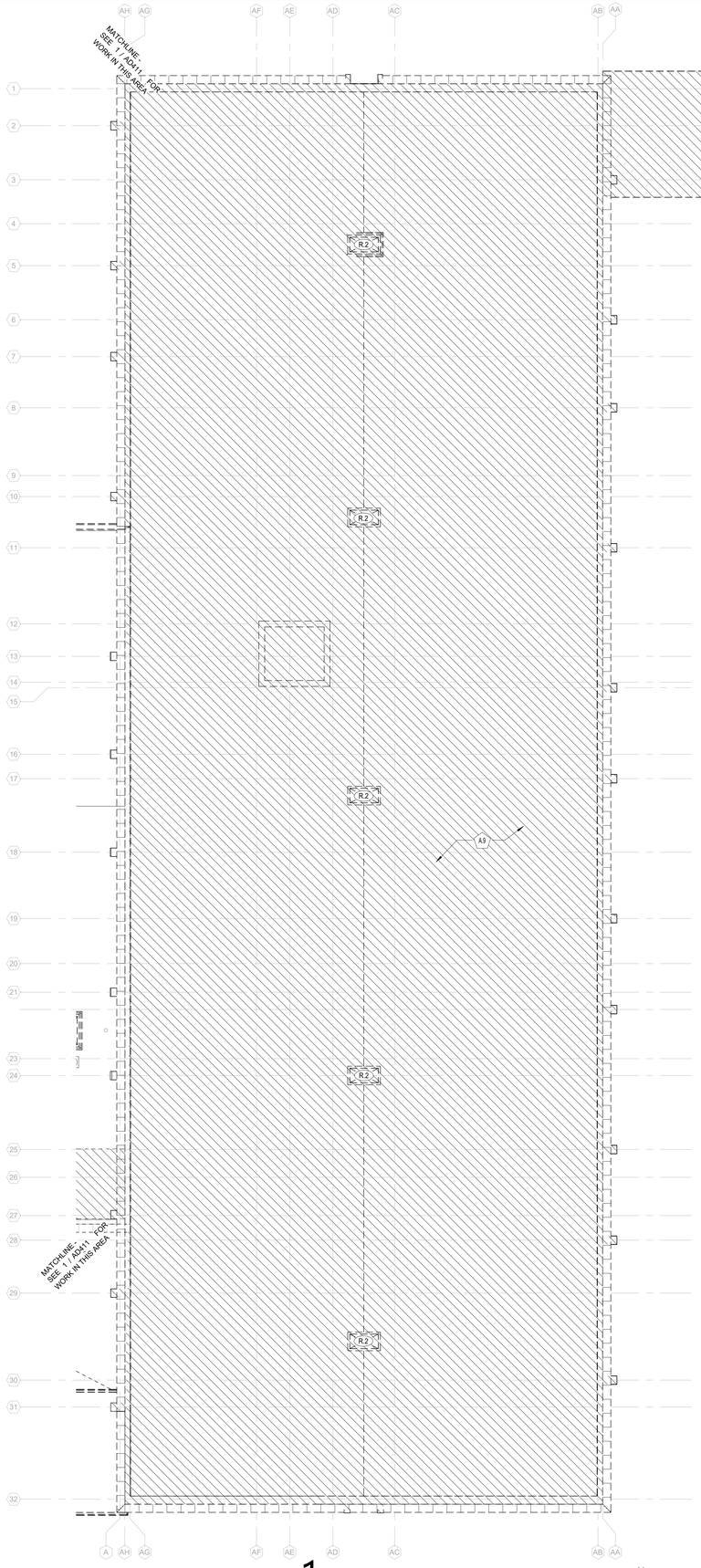
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CSArch Proj. #:	215-2402
Issued for Bid:	03/12/2026

Sheet Title
PARTIAL ROOF DEMOLITION PLAN - AREA '1'

Sheet No.
TR
AD411

CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES.rvt



1 ROOF DEMOLITION PLAN - AREA '2'
AD412 1/8" = 1'-0"

ROOF DEMOLITION NOTES

1. COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION.
2. PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN ROOFS (DUE TO REMOVALS) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION.
3. ALL KEYED REMOVALS SHALL INCLUDE REMOVAL OF ANY AND ALL ANCHORING SYSTEMS INCLUDING OBJECTS EMBEDDED INTO EXISTING CONSTRUCTION.
4. ALL EXISTING ROOF DRAINS, VENTS AND MECHANICAL EQUIPMENT ARE TO REMAIN, UNO.
5. EXISTING ROOF BLOCKING TO REMAIN, UNO. COORDINATE WITH NEW CONSTRUCTION.
6. REFER TO HAZARDOUS MATERIAL, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF DESCRIPTIONS

ROOF AREA '1' - EXISTING CONSTRUCTION
1. FULLY ADHERED EPDM ROOF MEMBRANE SYSTEM
2. (2) LAYERS OF 2.6" ROOF INSULATION (R-30 MIN)
3. 1/2" DENSDECK ROOF BOARD
4. EXISTING TECTUM ROOF DECK WITH VAPOR BARRIER (MOPPED TO TECTUM DECK).

ROOF AREAS '2 - 8' - EXISTING CONSTRUCTION
1. FULLY ADHERED EPDM ROOF MEMBRANE SYSTEM
2. (2) LAYERS OF 2.6" ROOF INSULATION (R-30 MIN)
3. 1/2" DENSDECK ROOF BOARD
4. EXISTING METAL ROOF DECK W/ LIGHT WEIGHT VERMICULITE FILL EXISTING VAPOR BARRIER TO REMAIN.

ROOF AREA '9' - EXISTING CONSTRUCTION
1. FULLY ADHERED EPDM ROOF MEMBRANE SYSTEM
2. (2) LAYERS OF 2.6" ROOF INSULATION (R-30 MIN)
3. 1/2" DENSDECK ROOF BOARD
4. EXISTING CONCRETE DECK

ROOF AREA '10' - EXISTING CONSTRUCTION
1. FULLY ADHERED EPDM ROOF MEMBRANE SYSTEM
2. (2) LAYERS OF 2.6" ROOF INSULATION (R-30 MIN)
3. 1/2" DENSDECK ROOF BOARD
4. EXISTING METAL ROOF DECK, EXISTING VAPOR BARRIER TO REMAIN.

ROOF AREA '11' - NEW CONSTRUCTION
1. FULLY ADHERED EPDM ROOF MEMBRANE SYSTEM
2. (2) LAYERS OF 2.6" ROOF INSULATION (R-30 MIN)
3. 1/2" DENSDECK ROOF BOARD
4. METAL ROOF DECK, REFER TO STRUCTURAL DRAWINGS

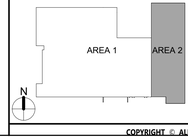
ROOF LEGEND

- RD — ROOF DRAIN, REFER TO PLUMBING DRAWINGS
- SD — SECONDARY DRAIN, REFER TO PLUMBING DRAWINGS
- SC — ROOF SCUPPER
- EV — EXISTING VENT PIPE, REFER TO PLUMBING DRAWINGS
- V — VENT PIPE, REFER TO PLUMBING DRAWINGS
- ROOF PENETRATIONS, REFER TO MECHANICAL DRAWINGS
- AH — ROOF ACCESS HATCH
- INDICATES DIRECTION OF SLOPE AT 1/4" PER FOOT MINIMUM, UNO
- L — ROOF LADDER
- EJ — EXPANSION JOINT
- AREAS OF WET INSULATION REMOVAL
- AREAS TO RECEIVE NEW COATING APPLICATION
- AREAS TO RECEIVE NEW INSULATION AND MEMBRANE

KEYNOTES

#	DESCRIPTION
A.9	DEMOLISH ENTIRE 3-STORY CLASSROOM WING AND EAST CANOPY, INCLUDING FOUNDATIONS, SLAB, AND STRUCTURE. SEE 'HZ', 'S', AND MEP DWGS FOR ADDITIONAL INFORMATION.
R.2	REMOVE SKYLIGHT ASSEMBLY IN ITS ENTIRETY, INCLUDING CURB, FLASHING AND ALL ASSOCIATED COMPONENTS. PATCH AND REPAIR ROOF TO MAINTAIN WEATHERPROOFING AND STRUCTURAL INTERGRITY.

KEY PLAN



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Project Title

BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

REGISTERED ARCHITECT — CHRISTOPHER J. SCHNEIDER — No. 025852 — STATE OF NEW YORK
EXPIRES: 1/31/2026

#	DATE	DESCRIPTION

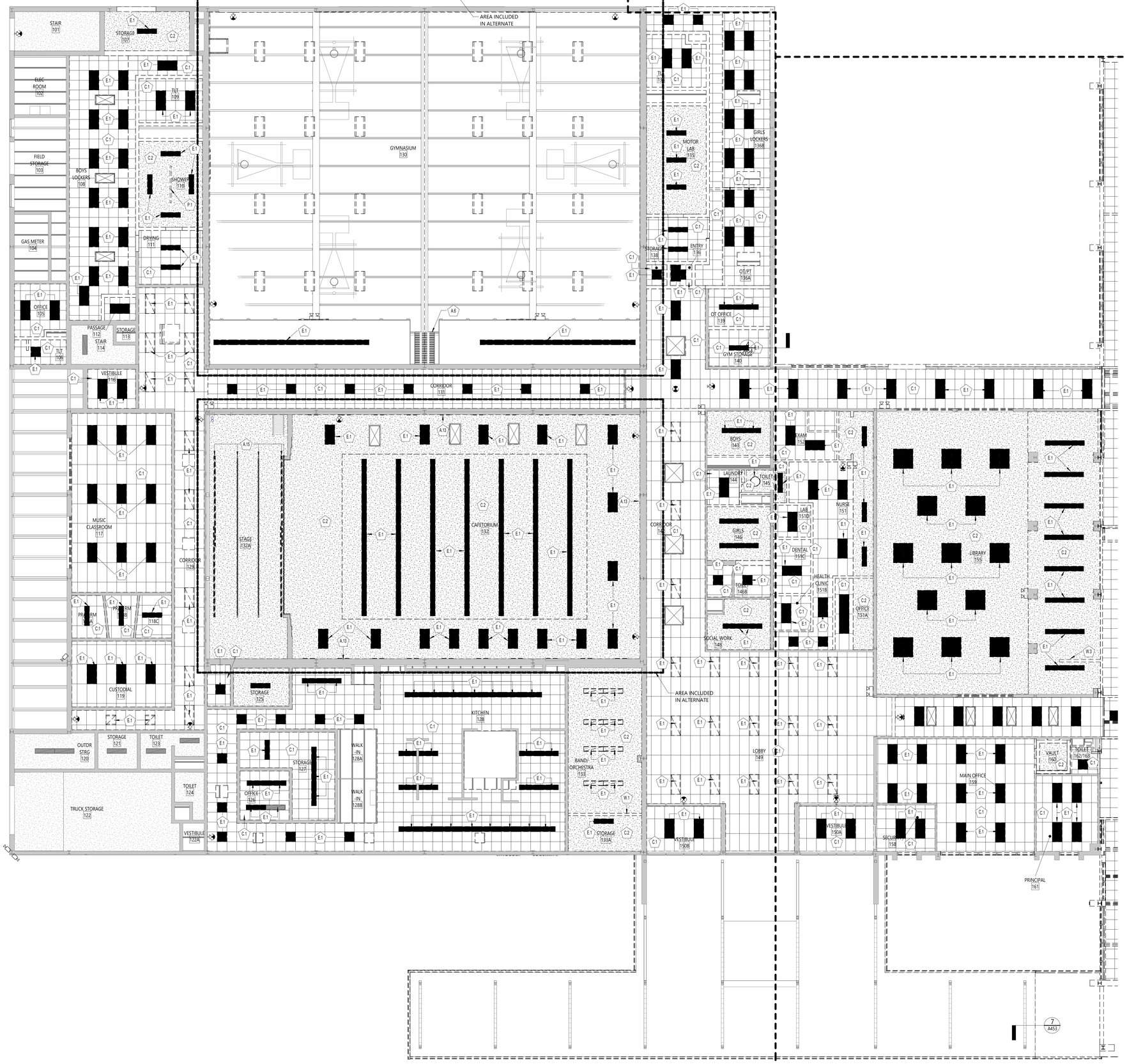
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Sheet Title
PARTIAL ROOF DEMOLITION PLAN - AREA '2'

Sheet No.
TR
AD412

CONSTRUCTION DOCUMENTS

Autodesk Docs://215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES.rvt



1 FIRST FLOOR DEMOLITION RCP - AREA '1'
AD811 1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION.
2. PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN WALLS (DUE TO REMOVAL) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION.
3. SALVAGED ITEMS SHALL BE TURNED OVER TO OWNER, UNO
4. ALL KEYED REMOVALS SHALL INCLUDE REMOVAL OF ANY AND ALL ANCHORING SYSTEMS INCLUDING OBJECTS EMBEDDED INTO EXISTING WALLS.
5. REFER TO ASBESTOS, MEP, AND STRUCTURAL DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION.
6. PROVIDE TEMPORARY SHORING AS NECESSARY AT ALL AREAS OF WALL REMOVAL AND NEW WALL PENETRATIONS.
7. DRILL CORNERS OF ALL NEW SAWCUT OPENING PRIOR TO SAWCUTTING, TO PREVENT CUTTING INTO SCHEDULED CONSTRUCTION TO REMAIN.
8. REMOVE ALL TOILET ROOM ACCESSORIES INCLUDING BUT NOT LIMITED TO SOAP DISPENSERS, PAPER TOWEL DISPENSERS, TOILET PAPER DISPENSERS, ETC.

CEILING LEGEND

- GWB OR PLASTER CEILING, REFER TO DETAILS AND ROOM FINISH SCHEDULE
- SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM
- SKYLIGHT, REFER TO ROOF PLAN
- SCOPE OF WORK IN THIS AREA TO BE INCLUDED AS ALTERNATE (MECHANICAL SCOPE TO REMAIN IN BASE BID)

ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

- 2'x4' LIGHT FIXTURE
- 2'x2' LIGHT FIXTURE
- 1'x LIGHT FIXTURE
- LINEAR LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- RECESSED DOWN LIGHT
- CEILING MOUNTED EXIT SIGN
- OS — CEILING MOUNTED OCCUPANCY SENSOR
- S — CEILING MOUNTED SMOKE DETECTOR
- H — CEILING MOUNTED HEAT DETECTOR
- S — CEILING MOUNTED PA SPEAKER
- J — CEILING MOUNTED SECURITY J-BOX
- MS — CEILING MOUNTED MOTION SENSOR
- CEILING MOUNTED DATA J-BOX

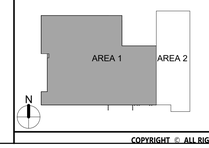
MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

- HVAC SUPPLY GRILLE
- HVAC RETURN GRILLE
- LINEAR HVAC SUPPLY GRILLE
- CEILING CASSETTE UNIT

KEYNOTES

#	DESCRIPTION
A.6	REMOVE OPERABLE DIVIDER WALL IN ITS ENTIRETY. INCLUDING CORRESPONDING CONTROL SYSTEMS. SEE MEP DWGS.
A.13	REMOVE ACOUSTIC PANELS IN THEIR ENTIRETY. SEE 'HZ' DWGS.
A.15	REMOVE STAGE CURTAINS.
C.1	REMOVE SUSPENDED CEILING SYSTEM IN ITS ENTIRETY. INCLUDING ALL HANGERS AND FASTENERS. SEE MEP DWGS FOR EQUIP REMOVALS.
C.2	REMOVE PLASTER CEILING SYSTEM INTIS ENTIRETY. INCLUDING ALL FRAMING AND FASTENERS. SEE MEP DWGS FOR EQUIP REMOVALS.
E.1	REMOVE LIGHTING FIXTURES, SEE 'E' DRAWINGS.
P.1	REMOVE PLUMBING FIXTURE. SEE 'P' DWGS.
W.1	SAWCUT AND REMOVE MASONRY WALL IN ITS ENTIRETY. SALVAGE GLAZED BLOCKS AND STORE FOR INFILL. COORDINATE REMOVAL WITH NEW WORK.
W.3	REMOVE STUD PARTITION IN ITS ENTIRETY.

KEY PLAN



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Sheet Title

PARTIAL FIRST FLOOR DEMOLITION RCP - AREA '1'

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