NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

201 Fullerton Ave, Newburgh, NY 12550

ISSUED FOR BID: 4/15/2024

CSARCH - ARCHITECTS & M.E. ENGINEERS

ME ENGINEERING - PLUMBING & TECHNOLOGY ENGINEERS

PASSERO ASSOCIATES - CIVIL & STRUCTURAL ENGINEERS

FOOD SERVICE DESIGN STUDIOS - FOOD SERVICE DESIGNER

AVL DESIGNS,INC. - AUDIO VISUAL

JACOBS PROJECT MANAGEMENT CO. - PROJECT MANAGER

STATE EDUCATION DEPARTMENT PROJECT CONTROL NUMBER:
44-16-00-01-0-053-001

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. 108-2303

VICINITY MAP   NTS

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REGISTRATION EXPIRATION DATE: 12/31/2026

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PIPING AND INSTRUMENTATION DIAGRAM DRAWINGS
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MECHANICAL GENERAL DRAWING
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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
CONTR	CONTRACTOR
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-RETARDENT-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

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

- CLASSROOM / 100 / 000 S.F. — ROOM NAME; ROOM NUMBER; AREA OF ROOM
- A100 — DOOR NUMBER, REFER TO A900 DRAWINGS
- 1 — WINDOW TAG, REFER TO A900 DRAWINGS
- BL11 — BORROWED LIGHT NUMBER, REFER TO A900 DRAWINGS
- S1 — STOREFRONT / CURTAINWALL NUMBER, REFER TO A900 DRAWINGS
- 1 — COLUMN GRID DESIGNATION
- 1 — PARTITION TAG, REFER TO A700 DRAWINGS
- M, 1 — HOUR RATING OF PARTITION; ADDITIONAL NOTES FOR PARTITION
- 1 — REVISION NUMBER
- 1 — KEY NOTE, NEW WORK
- 1 — KEY NOTE, DEMOLITION WORK
- +0'-0" — ELEVATION TAG
- HANDICAPPED ACCESSIBLE ELEMENT OR FIXTURE
- ROOM NAME / 101 / WALL FINISH / BASE FINISH / FLOOR FINISH — INTERIOR FINISH TAG, REFER TO AF100 DRAWINGS

DETAIL INDICATOR LEGEND

SECTION INDICATOR

1 / A100

- SECTION NUMBER
- DRAWING SHEET NUMBER SECTION IS DRAWN ON
- DIRECTION OF VIEW

DETAIL INDICATOR (SECTION)

1 / A100

- SECTION NUMBER
- DRAWING SHEET NUMBER SECTION IS DRAWN ON
- DIRECTION OF VIEW

ENLARGED DETAIL INDICATOR

1 / A100

- DRAWING AREA REQUIRING DETAIL
- DETAIL NUMBER
- DRAWING SHEET NUMBER DETAIL IS DRAWN ON

DETAIL TITLE

1 FLOOR PLAN

A100 1/8" = 1'-0"

- DETAIL NUMBER
- DETAIL TYPE / NAME
- DRAWING SHEET NUMBER
- SCALE

EXTERIOR ELEVATION INDICATOR

1 / A100

- DIRECTION OF VIEW
- ELEVATION NUMBER
- DRAWING SHEET NUMBER DETAIL IS DRAWN ON

INTERIOR ELEVATION INDICATOR

A600, A, B

- BLANK ARROW INDICATES ELEVATIONS NOT DETAILED
- ELEVATION NUMBER
- DRAWING SHEET NUMBER DETAIL IS DRAWN ON
- DIRECTION OF VIEWS

PLAN GRAPHICS LEGEND

- NEW CONCRETE MASONRY WALL
- NEW METAL STUD WALL
- NEW BRICK VENEER
- NEW DOOR

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

18" MIN — 6" — 12"

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 COODINATE 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 BLOCKING WITHIN 2'-0" OF GRADE SHALL BE PRESSURE TREATED
8. ALL FLOOR PENETRATIONS SHALL BE SMOKE-SEALED AND /OR FIRE STOPPED. COORDINATE WITH 'H' DWGS FOR SMOKE / FIRE DAMPER REQUIREMENTS.
9. FOR INTERIOR PARTITION TYPES, REFER TO DRAWING A701
10. FOR DOOR SCHEDULE, REFER TO DRAWING A901
11. FOR FINISH SCHEDULE, REFER TO DRAWING AF901
12. ALL EXPOSED SURFACES OF NEW PARTITIONS AND SOFFITS ARE TO BE FINISHED.
13. ALL CONSTRUCTION SHOWN IS NEW UNLESS NOTED OTHERWISE

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Consultant

Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

REGISTRATION EXPIRATION DATE: 12/31/2026

#	DATE	DESCRIPTION

Drawn By:	
Checked By:	
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title

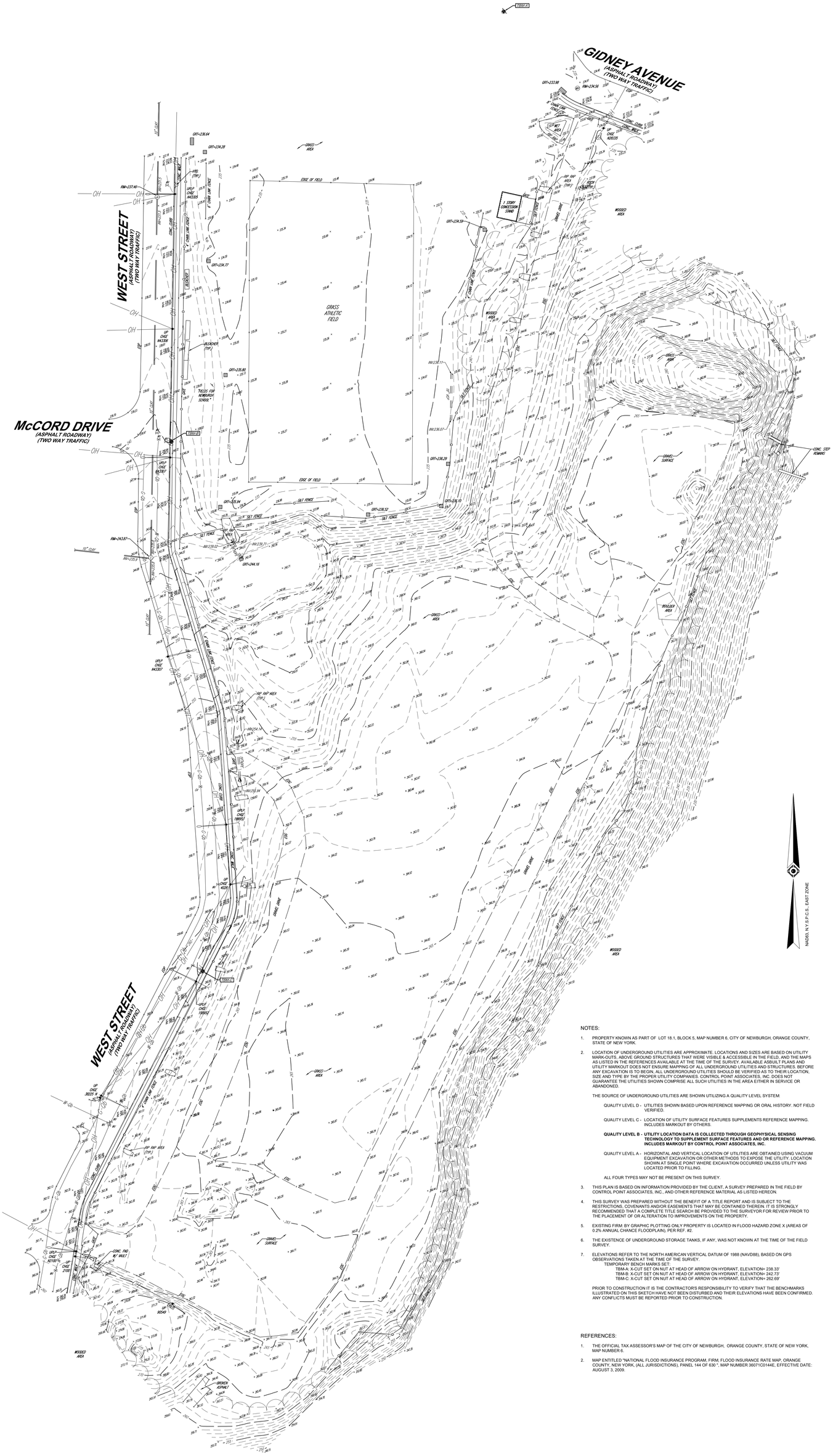
SYMBOLS AND ABBREVIATIONS

Sheet No.

CTE G001

CONSTRUCTION DOCUMENTS

Autodesk Docs://NECSD - New CTE Bldg/108-2303 NECSD CTE - ARCH.rvt



LEGEND

124	EXISTING CONTOUR
123.45	EXISTING SPOT ELEVATION
TC 123.45	EXIST. TOP OF CURB ELEVATION
BC 123.45	EXIST. BOTTOM CURB ELEVATION
TW 123.45	EXIST. TOP OF WALL ELEVATION
BW 123.45	EXIST. BOTTOM OF WALL ELEVATION
OH OH	OVERHEAD WIRES
G-GB	APPROX. LOC. UNDERGROUND NATURAL GAS LINE SUBSURFACE QUALITY LEVEL B
W-GB	APPROX. LOC. UNDERGROUND WATER LINE SUBSURFACE QUALITY LEVEL B
	HYDRANT
	WATER VALVE
S	SANITARY/SEWER MANHOLE
	UTILITY POLE
UPLP	UTILITY POLE/LIGHT POLE
	GUY WIRE (EXTENDS)
	SIGN
	CATCH BASINS
	FLARED END SECTION
TBM#A	BENCHMARKS
	UNKNOWN TERMINUS

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

NOTES:

1. PROPERTY KNOWN AS PART OF LOT 18.1, BLOCK 5, MAP NUMBER 6, CITY OF NEWBURGH, ORANGE COUNTY, STATE OF NEW YORK.
2. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE ASBUILT PLANS AND UTILITY MARKOUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED.

   THE SOURCE OF UNDERGROUND UTILITIES ARE SHOWN UTILIZING A QUALITY LEVEL SYSTEM:

   QUALITY LEVEL D - UTILITIES SHOWN BASED UPON REFERENCE MAPPING OR ORAL HISTORY. NOT FIELD VERIFIED.

   QUALITY LEVEL C - LOCATION OF UTILITY SURFACE FEATURES SUPPLEMENTS REFERENCE MAPPING. INCLUDES MARKOUT BY OTHERS.

   QUALITY LEVEL B - UTILITY LOCATION DATA IS COLLECTED THROUGH GEOPHYSICAL SENSING TECHNOLOGY TO SUPPLEMENT SURFACE FEATURES AND OR REFERENCE MAPPING. INCLUDES MARKOUT BY CONTROL POINT ASSOCIATES, INC.

   QUALITY LEVEL A - HORIZONTAL AND VERTICAL LOCATION OF UTILITIES ARE OBTAINED USING VACUUM EQUIPMENT EXCAVATION OR OTHER METHODS TO EXPOSE THE UTILITY. LOCATION SHOWN AT SINGLE POINT WHERE EXCAVATION OCCURRED UNLESS UTILITY WAS LOCATED PRIOR TO FILLING.

   ALL FOUR TYPES MAY NOT BE PRESENT ON THIS SURVEY.
3. THIS PLAN IS BASED ON INFORMATION PROVIDED BY THE CLIENT, A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC., AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
4. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN. IT IS STRONGLY RECOMMENDED THAT A COMPLETE TITLE SEARCH BE PROVIDED TO THE SURVEYOR FOR REVIEW PRIOR TO THE PLACEMENT OF OR ALTERATION TO IMPROVEMENTS ON THE PROPERTY.
5. EXISTING FIRM: BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE X (AREAS OF 0.2% ANNUAL CHANCE FLOODPLAIN), PER REF. #2.
6. THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN AT THE TIME OF THE FIELD SURVEY.
7. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), BASED ON GPS OBSERVATIONS TAKEN AT THE TIME OF THE SURVEY.
   TEMPORARY BENCH MARKS SET:
   TBM-A: X-CUT SET ON NUT AT HEAD OF ARROW ON HYDRANT, ELEVATION= 238.33'
   TBM-B: X-CUT SET ON NUT AT HEAD OF ARROW ON HYDRANT, ELEVATION= 242.73'
   TBM-C: X-CUT SET ON NUT AT HEAD OF ARROW ON HYDRANT, ELEVATION= 262.69'

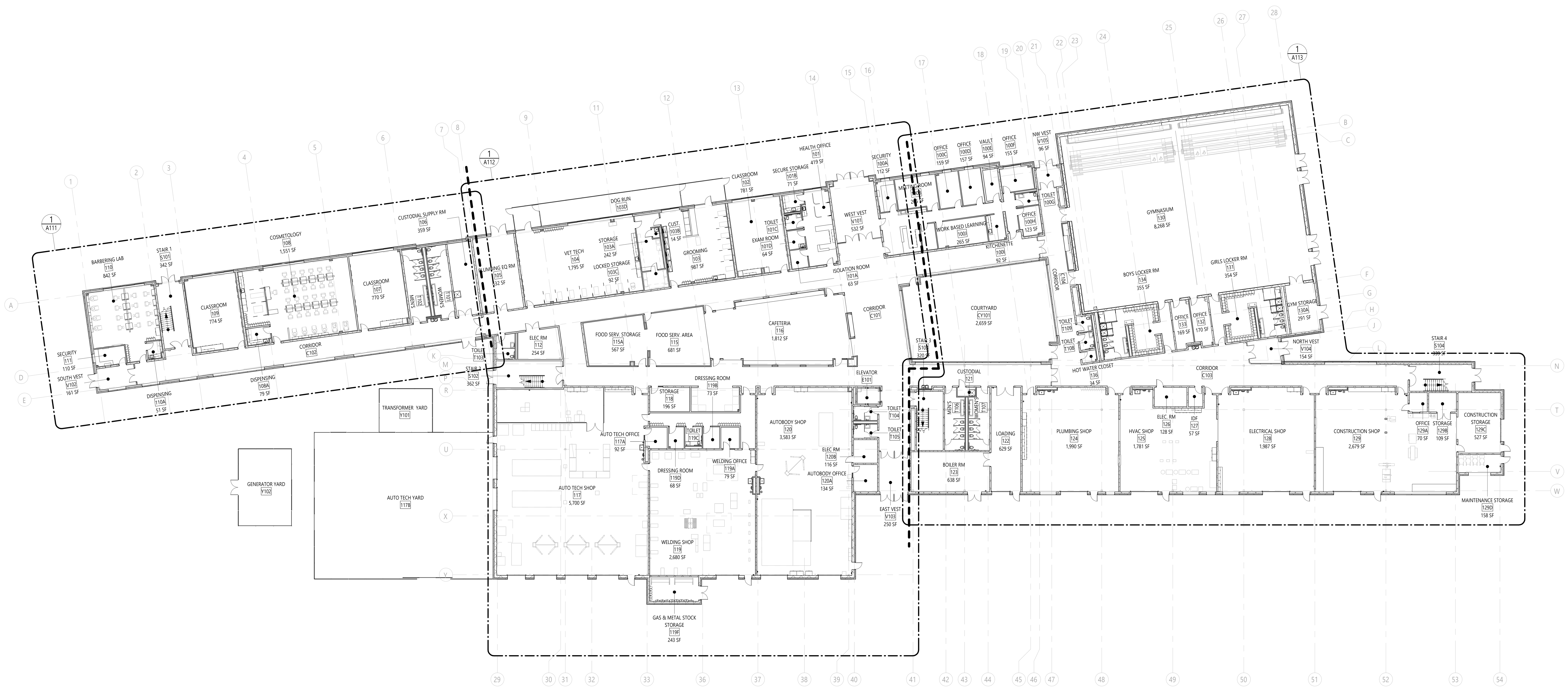
   PRIOR TO CONSTRUCTION IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT THE BENCHMARKS ILLUSTRATED ON THIS SKETCH HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED. ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTION.

REFERENCES:

1. THE OFFICIAL TAX ASSESSOR'S MAP OF THE CITY OF NEWBURGH, ORANGE COUNTY, STATE OF NEW YORK, MAP NUMBER 6.
2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, ORANGE COUNTY, NEW YORK, (ALL JURISDICTIONS), PANEL 144 OF 630 ", MAP NUMBER 36071C0144E, EFFECTIVE DATE: AUGUST 3, 2009.

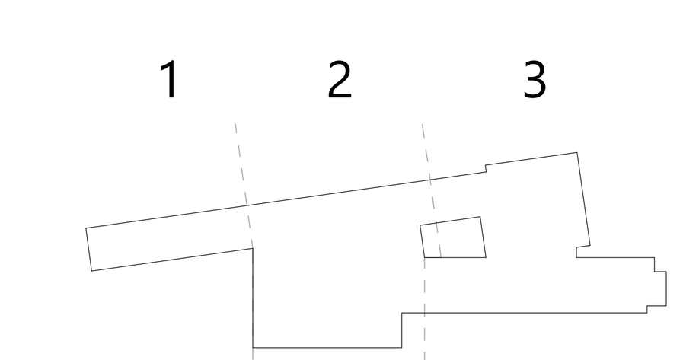
GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES.
2. REFER TO A600 SERIES DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CABINETRY.
3. REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, CURTAINWALL, WINDOW AND LOUVER SCHEDULES, DETAILS AND NOTES.
4. REFER TO SHEET A701 FOR PARTITION TYPES AND ADDITIONAL NOTES.



1
G101
OVERALL FIRST FLOOR PLAN
3/64" = 1'-0"

KEY PLAN



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Consultant

Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

REGISTERED ARCHITECT RICHARD L. PECKHAM 019884 STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 12/31/2026

#	DATE	DESCRIPTION

Drawn By:	
Checked By:	
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
OVERALL FIRST FLOOR PLAN

Sheet No.
CTE G101

CONSTRUCTION DOCUMENTS

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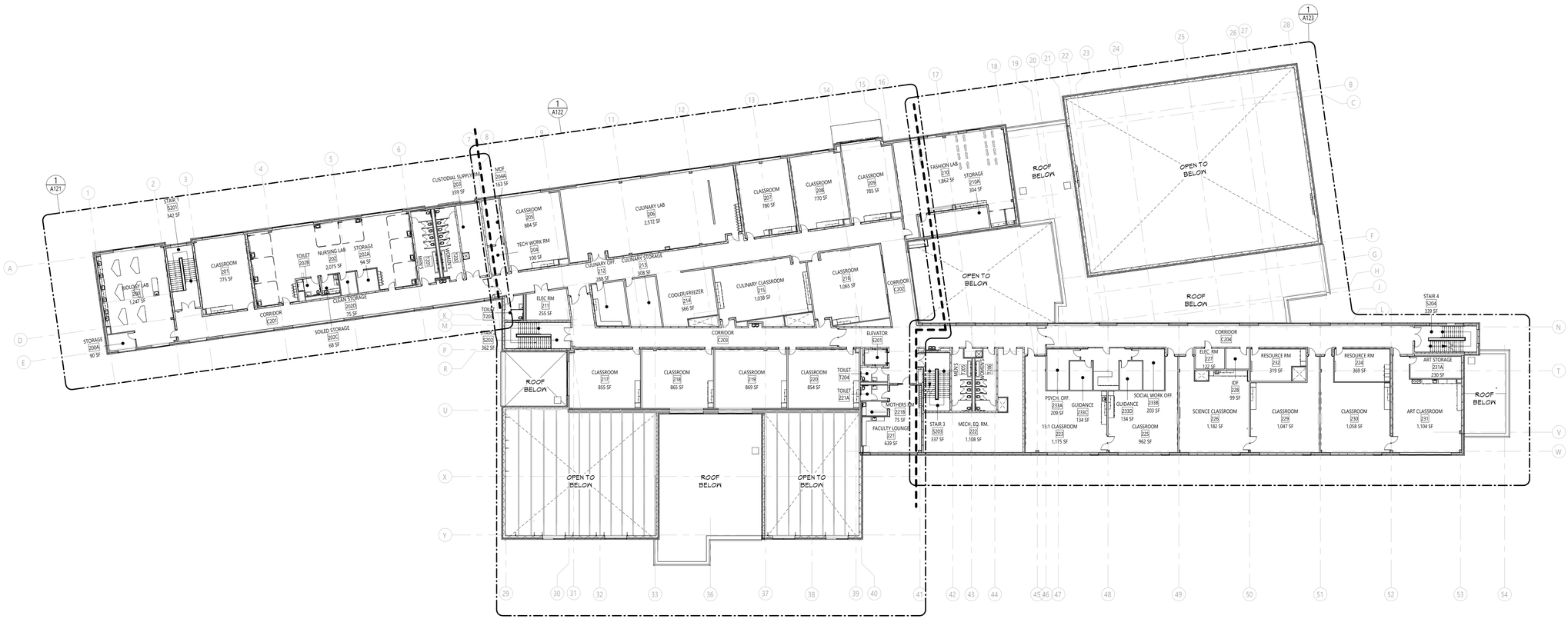


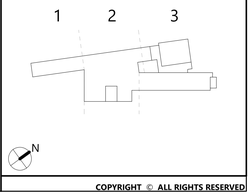
1 OVERALL SECOND FLOOR PLAN

G102 3/64" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES.
2. REFER TO A600 SERIES DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CABINETRY.
3. REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, CURTAINWALL, WINDOW AND LOUVER SCHEDULES, DETAILS AND NOTES.
4. REFER TO SHEET A7101 FOR PARTITION TYPES AND ADDITIONAL NOTES.

KEY PLAN



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Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

REGISTERED ARCHITECT MICHAEL L. PERRIN 019084 STATE OF NEW YORK

REGISTRATION EXPIRATION DATE: 12/31/2026

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Sheet Title

OVERALL SECOND FLOOR PLAN

Sheet No.

CTE G102

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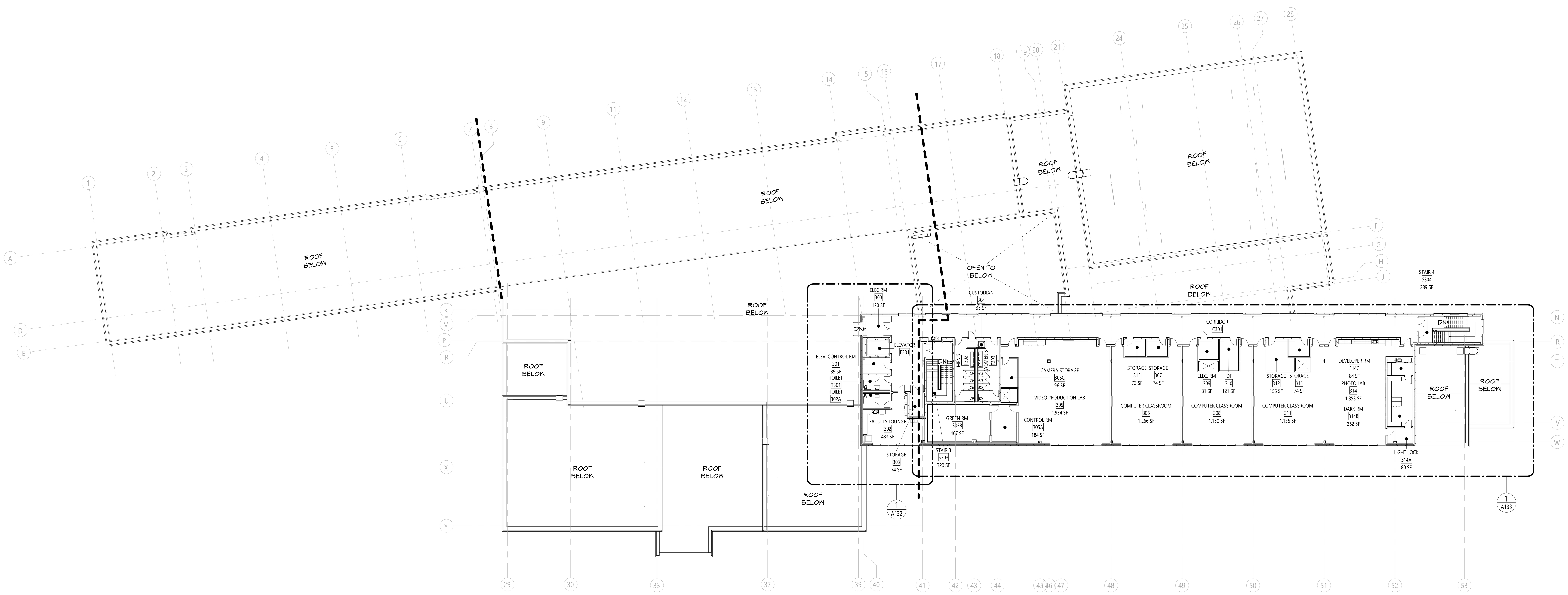


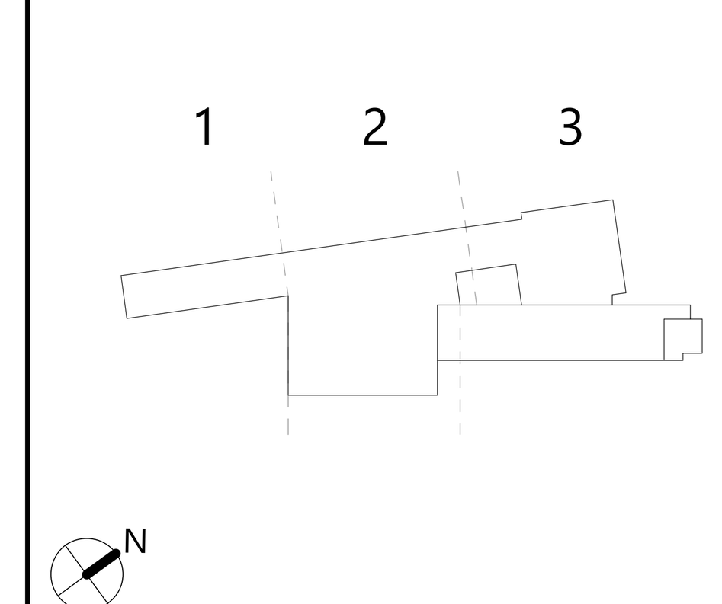
1 OVERALL THIRD FLOOR PLAN

G103 3/64" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES.
2. REFER TO A600 SERIES DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CABINETRY.
3. REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, CURTAINWALL, WINDOW AND LOUVER SCHEDULES, DETAILS AND NOTES.
4. REFER TO SHEET A701 FOR PARTITION TYPES AND ADDITIONAL NOTES.

KEY PLAN



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NEW CTE BUILDING

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Sheet Title

OVERALL THIRD FLOOR PLAN

Sheet No.

CTE G103

CONSTRUCTION DOCUMENTS

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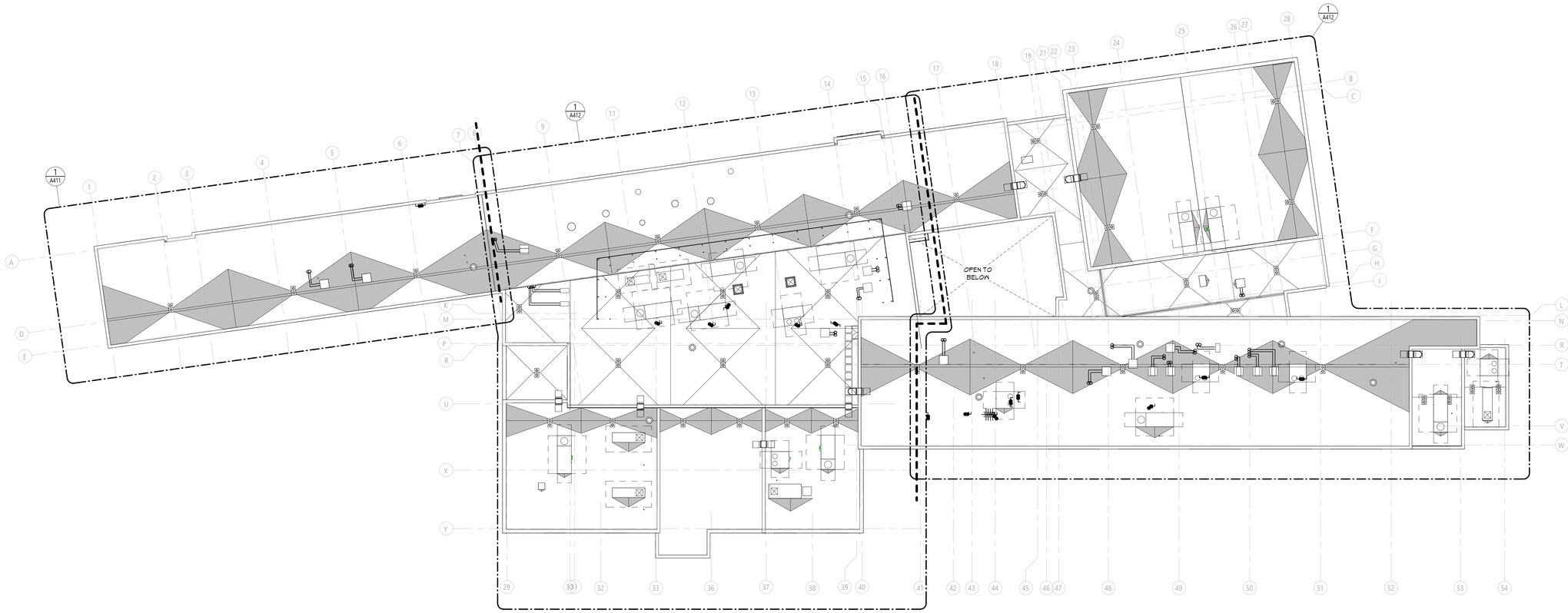
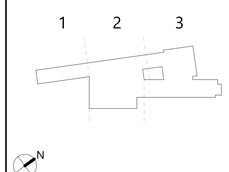


1 OVERALL ROOF PLAN
G104 3/64" = 1'-0"

KEY PLAN



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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

REGISTERED ARCHITECT
RICHARD L. PRATT
019984
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 12/31/2026

#	DATE	DESCRIPTION

Drawn By:	
Checked By:	
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
OVERALL
ROOF PLAN

Sheet No.
CTE
G104

CONSTRUCTION DOCUMENTS

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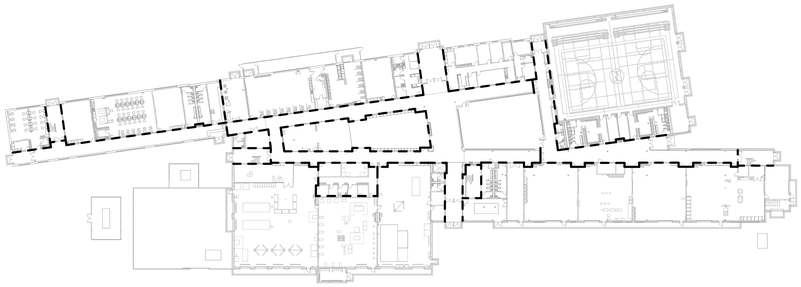
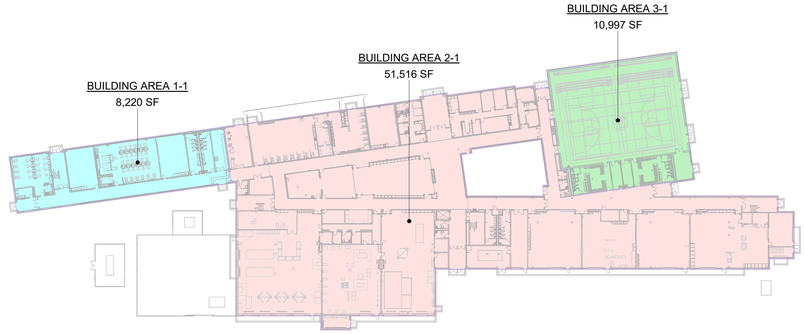
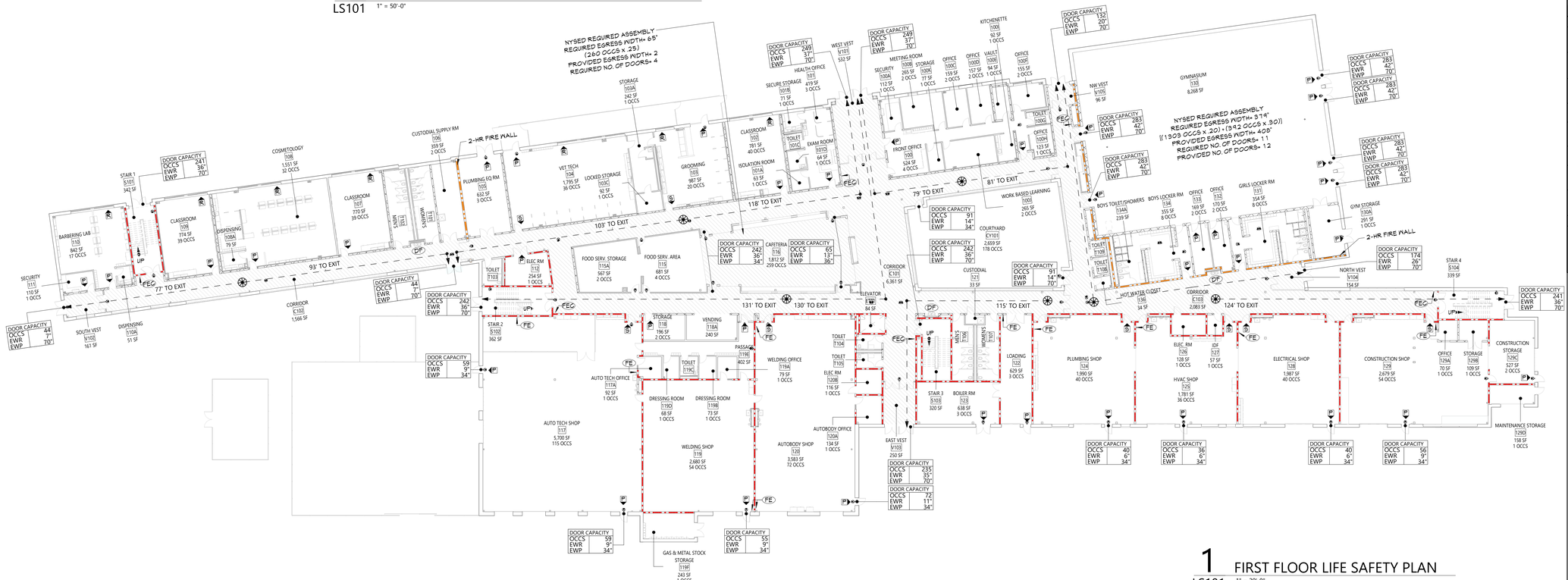
4 FIREPROOFING PLAN
LS101 1" = 50'-0"



3 FIRST FLOOR SMOKE ZONE PLAN
LS101 1" = 50'-0"



2 FIRST FLOOR BUILDING / FIRE AREA PLAN
LS101 1" = 50'-0"



1 FIRST FLOOR LIFE SAFETY PLAN
LS101 1" = 20'-0"

2020 PLUMBING CODE OF NEW YORK STATE (TABLE 403.1)

CLASSIFICATION: EDUCATIONAL

OCCUPANCY: 2419	MALE	FEMALE	TOTAL
STUDENTS:	1180	1180	2359
FACULTY:	30	30	60

	MALE FIXTURES			FEMALE FIXTURES	
	WC (1:50)	URINAL *	LAV (1:50)	WC (1:50)	LAV (1:50)
STUDENT REQUIRED	12	12	24	24	24
STUDENT PROVIDED	30	0	26	30	26
FACULTY REQUIRED	1	0	1	1	1
FACULTY PPROVIDED	1	0	1	1	1

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

DRINKING FOUNTAINS (1:100) REQUIRED: 7 PROVIDED: 13

BUILDING AREA SUMMARY - GSF

NAME	AREA
BUILDING AREA 1-1	8,220 SF
BUILDING AREA 1-2	8,220 SF
BUILDING AREA 2-1	51,516 SF
BUILDING AREA 2-2	37,977 SF
BUILDING AREA 2-3	15,503 SF
BUILDING AREA 3-1	10,997 SF
	132,434 SF

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

COUNTY: ORANGE | CLIMATE ZONE: 5A

	REQUIRED	PROVIDED
VERTICAL FENESTRATION (U-FACTOR), Table C402.4		
FIXED FENESTRATION	0.38	0.38
OPERABLE FENESTRATION	0.45	0.45
ENTRANCE DOORS	0.77	0.77
VERTICAL FENESTRATION SHGC, Table C402.4		
PF < 0.2	0.38	NA
0.2 ≤ PF ≥ 0.5	0.46	NA
PF > 0.5	0.61	NA
SKYLIGHTS, Table C402.4		
U-FACTOR	0.50	NA
PF ≥ 0.5	0.40	NA
ROOF ASSEMBLIES (R-VALUES), Table C402.1.3		
INSULATION ENTIRELY ABOVE ROOF DECK	R-30ci	R-30ci
METAL BUILDINGS	R-19 + R-11 LS	NA
ATTIC AND OTHER	R-38	NA
WALLS ABOVE GRADE (R-VALUES), Table C402.1.3		
MASS	R-11.4ci	R-12.5ci
METAL BUILDINGS	R-13 + R-13ci	NA
METAL FRAMED	R-13 + R-7.5ci	R-14 + R-12.5ci
WOOD FRAMED AND OTHER	R-13 + R-3.8ci	NA
WALLS BELOW GRADE (R-VALUES), Table C402.1.3		
BELOW GRADE WALL	R-7.5ci	NA
FLOORS (R-VALUES), Table C402.1.3		
MASS	R-10.4ci	NA
JOIST / FRAMING	R-30	NA
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	NA
OPAQUE DOORS		
NONSWINGING (R-VALUE), Table C402.1.3	R-4.75	R-4.75
SWINGING (U-VALUE), Table C402.1.4	0.37	0.37

LIFE SAFETY PLAN LEGEND

- (P) PRIMARY
- (S) SECONDARY
- (R) RESCUE WINDOW (SECONDARY
- ACCESSIBLE
- RESCUE ASSISTANCE STATION/AREA OF
- ## OCCS (## OCCS) NUMBER OF OCCUPANTS PER TABLE 1004.1.2 (ACTUAL NUMBER OF OCCUPANTS)
- DOOR CAPACITY OCCS = EWR = EWP = REQUIRED EXIT WIDTH FOR DOOR BASED ON (OCCUPANT * 0.2)
- STAIR CAPACITY OCCS = EWR = EWP = REQUIRED EXIT WIDTH FOR STAIRS BASED ON (OCCUPANT * 0.3)
- EXIT PATH OF TRAVEL
- 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.

ABBREVIATI

- AED AUTOMATED EXTERNAL DEFIBRILLATOR
- DF DRINKING FOUNTAIN
- ESE EMERGENCY EYEWASH STATION
- FE FIRE EXTINGUISHER, WALL MOUNT
- FEC FIRE EXTINGUISHER CABINET

SMOKE SEPARATION NOTES

- SMOKE BARRIER
- CORRIDOR, ENCLOSED WITH SMOKE PARTITIONS - NO COMMUNICATING MECHANICAL AIR BETWEEN CORRIDOR AND ADJACENT SPACES.

FIRE SEPARATION LEGEND

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

CODE NARRATIVE:

CONSTRUCTION TYPE: IIB (SPRINKLERED)

FIRST FLOOR AREA: 70,740 SF GROSS
SECOND FLOOR AREA: 46,225 SF GROSS
THIRD FLOOR AREA: 15,503 SF GROSS

BUILDING OCCUPANY CLASSIFICATION: E

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
BUISNESS 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)

I_f = [F/P - 0.25]W/30
I_f = [1059/1304 - 0.25] 30/30
I_f = [0.56] 1.00
I_f = 0.56

$A_a = A_t + (NS \times I_f)$
A_a = 43500+(14500 x 0.56)
A_a = 43500+(8120)
A_a = 51620 sq ft

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Consultant

Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

REGISTERED ARCHITECT RICHARD L. PROCHNA 019854 STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 12/31/2024

#	DATE	DISCRIPTION

Drawn By:
Checked By:
Proj. #: 44-16-00-01-0-053-001
CSArch Proj. #: 108-2303
Issued for Bid: 4/15/2024

Sheet Title
FIRST FLOOR LIFE SAFETY PLAN

Sheet No.
CTE LS101

CONSTRUCTION DOCUMENTS

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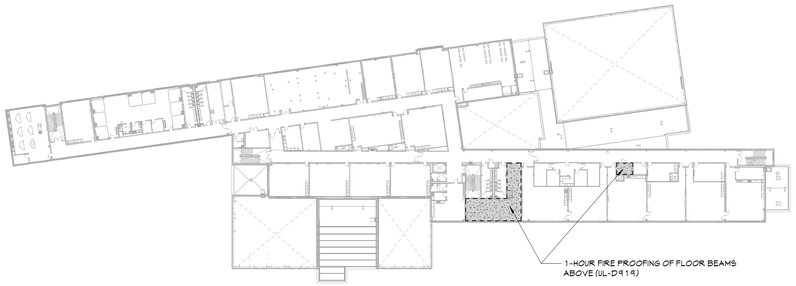
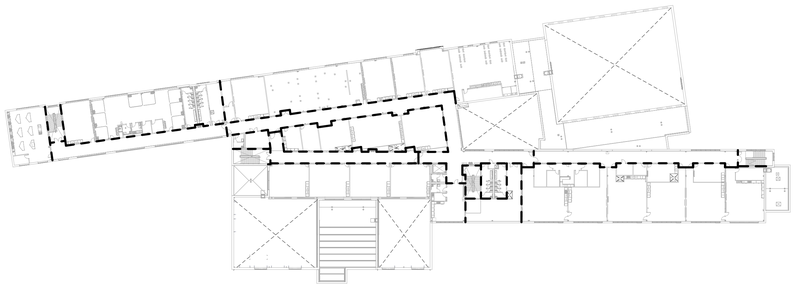
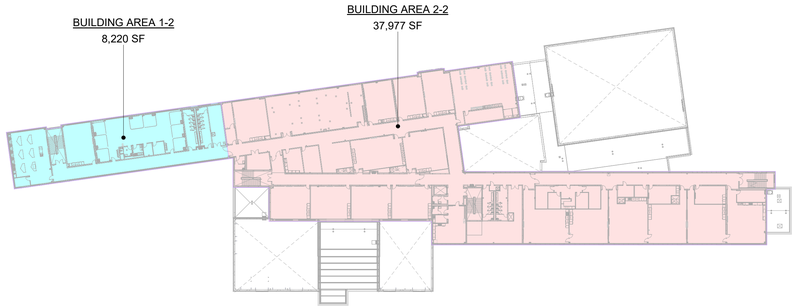


4 FIRE PROOFING PLAN
LS102 1" = 50'-0"



3 SECOND FLOOR SMOKE ZONE PLAN
LS102 1" = 50'-0"



2 SECOND FLOOR BUILDING / FIRE AREA PLAN
LS102 1" = 50'-0"

1 SECOND FLOOR LIFE SAFETY PLAN
LS102 1" = 20'-0"

LIFE SAFETY PLAN LEGEND

- (P) PRIMARY
- (S) SECONDARY
- (R) RESCUE WINDOW (SECONDARY
- ACCESSIBLE
- RESCUE ASSISTANCE STATION/AREA OF
- ## OCCS (## OCCS) NUMBER OF OCCUPANTS PER TABLE 1004.1.2 (ACTUAL NUMBER OF OCCUPANTS)
- DOOR CAPACITY OCCS |-- EWR |-- EWP |-- REQUIRED EXIT WIDTH FOR DOOR BASED ON (OCCUPANT * 0.2)
- STAIR CAPACITY OCCS |-- EWR |-- EWP |-- REQUIRED EXIT WIDTH FOR STAIRS BASED ON (OCCUPANT * 0.3)
- EXIT PATH OF TRAVEL
- 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.

ABBREVIATI

- AED AUTOMATED EXTERNAL DEFIBRILLATOR
- DF DRINKING FOUNTAIN
- ESE EMERGENCY EYEWASH STATION
- FE FIRE EXTINGUISHER, WALL MOUNT
- FEC FIRE EXTINGUISHER CABINET

SMOKE SEPARATION NOTES

- SMOKE BARRIER
- CORRIDOR, ENCLOSED WITH SMOKE PARTITIONS - NO COMMUNICATING MECHANICAL AIR BETWEEN CORRIDOR AND ADJACENT SPACES.

FIRE SEPARATION LEGEND

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

CODE NARRATIVE:

CONSTRUCTION TYPE: IIB (SPRINKLERED)

FIRST FLOOR AREA:	20,740 SF GROSS
SECOND FLOOR AREA:	46,225 SF GROSS
THIRD FLOOR AREA:	15,503 SF GROSS

BUILDING OCCUPANY CLASSIFICATION: E

OCCUPANT LOAD

ACCESSORY STORAGE AREA, MECH. ROOM	300 GROSS
ASSEMBLY W/ FIXED SEATS	SECT. 1004.6
ASSEMBLY W/OUT FIXED SEATS	
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BUILDING AREA MODIFICATIONS
(NYS SECTION 506)

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A_t	TABULAR ALLOWABLE AREA FACTOR (NS§ 1 5 1 3R OR S 1 3D VALUE) IN ACCORDANCE WITH TABLE 506.2 (SQUARE FEET)
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I_f = [0.56] 1.00
I_f = 0.56

$A_a = A_t + (NS \times I_f)$
A_a = 43500+(14500 x 0.56)
A_a = 43500+(8120)
A_a = 51620 sq ft

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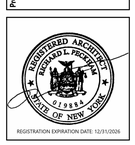
Consultant

Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING



#	DATE	DESCRIPTION

Drawn By:
Checked By:
Proj. #: 44-16-00-01-0-053-001
CSArch Proj. #: 108-2303
Issued for Bid: 4/15/2024

Sheet Title
SECOND FLOOR LIFE SAFETY PLAN

Sheet No.
CTE LS102

CONSTRUCTION DOCUMENTS

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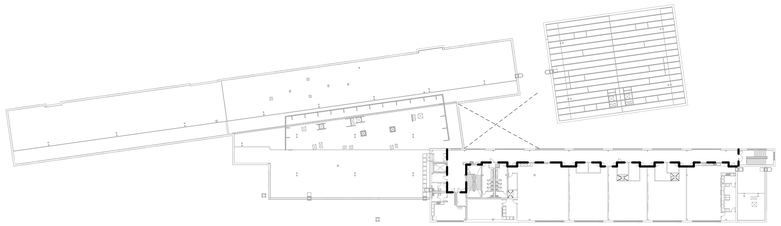
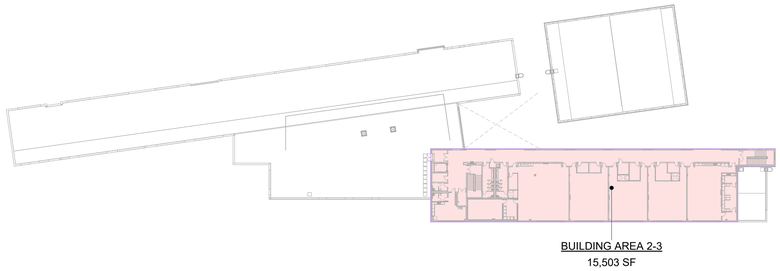


3 THIRD FLOOR SMOKE ZONE PLAN
LS103 1" = 50'-0"



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LS103 1" = 50'-0"

1 THIRD FLOOR LIFE SAFETY PLAN
LS103 1" = 20'-0"

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(NYS SECTION 506)

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$I_f = [0.56]$ 1.00
$I_f = 0.56$

$A_a = A_t+(NS \times I_f)$
$A_a = 43500+(14500 \times 0.56)$
$A_a = 43500+(8120)$
$A_a = 51620$ sq ft

LIFE SAFETY PLAN - OCCUPANT LOAD TABLE...

AREA	OCC LOAD
FIRST FLOOR 266.00	
72,181 SF	3,069
SECOND FLOOR	
41,192 SF	1,046
THIRD FLOOR	
13,616 SF	276
126,990 SF	4,391

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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

REGISTERED ARCHITECT RICHARD L. PROCIDA STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 12/31/2026

#	DATE	DESCRIPTION

Drawn By:
Checked By:
Proj. #: 44-16-00-01-0-053-001
CSArch Proj. #: 108-2303
Issued for Bid: 4/15/2024

Sheet Title
THIRD FLOOR LIFE SAFETY PLAN

Sheet No.
CTE LS103

CONSTRUCTION DOCUMENTS

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engineering architecture

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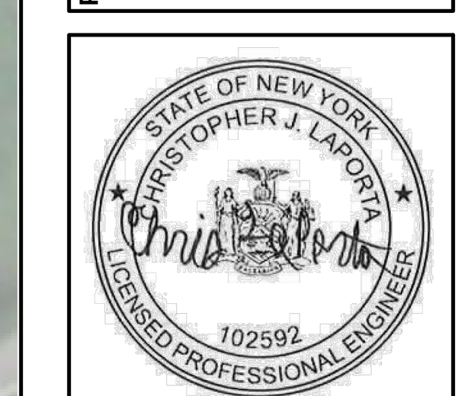
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING
CTE NEWBURGH

Project Title



#	DATE	DESCRIPTION

Drawn By:	MP
Checked By:	SK
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title

KEY MAP

Sheet No.

CTE C100

CONSTRUCTION DOCUMENTS

DEMOLITION NOTES:

1. SECURITY PROVIDE, INSTALL AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES.
2. DIG SAFE THE CONTRACTOR IS RESPONSIBLE TO CALL DIG SAFE PRIOR TO BEGINNING DEMOLITION.
3. VERIFICATION THE CONTRACTOR TO VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL UTILITIES WITHIN THE WORK AREA OR THOSE EXPECTED TO BE AFFECTED BY NEW WORK, AND SUBSURFACE FEATURES. THE SITE CONTRACTOR MUST BRING ANY ISSUES TO THE DESIGN ENGINEER AND OBTAIN WRITTEN APPROVAL FROM THE OWNER'S ONSITE REPRESENTATIVE UPON COMPLETION OF VERIFICATION PRIOR TO THE START OF DEMOLITION OR CONSTRUCTION.
4. APPLICABILITY THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION WORK SHOWN ON THE "C" SERIES DRAWINGS AND AS DEFINED IN THE SPECIFICATIONS UNLESS SPECIFICALLY DEFINED OTHERWISE. THIS INCLUDES ALL REMOVALS AS NECESSARY FOR THE CONSTRUCTION OF NEW WORK EVEN IF NOT SPECIFICALLY NOTED ON THE CONTRACT DOCUMENTS.
5. RECORD MAP - DURING REMOVAL/DEMOLITION PROCESS THE CONTRACTOR SHALL OBTAIN DETAILED RECORD INFORMATION TO ACCURATELY LOCATE ALL EXISTING UNDERGROUND UTILITIES ENCOUNTERED. THIS INFORMATION SHALL BE INCLUDED ON THE RECORD/AS-BUILT MAPS TO BE SUPPLIED BY THE CONTRACTOR TO THE SCHOOL DISTRICT.
6. SHUTDOWNS THE CONTRACTOR TO COORDINATE ALL UTILITY SHUT DOWNS, RELOCATIONS, SERVICE INSTALLATIONS WITH THE SCHOOL DISTRICT AND LOCAL UTILITY COMPANIES.
7. COORDINATION THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF DEMOLISHED MATERIAL WITH THE OWNER'S REPRESENTATIVE. SITE FURNISHINGS AND MATERIAL DETERMINED TO BE REMOVED SHALL BE REMOVED AND EXPORTED OFFSITE IN A LEGAL MANNER AND IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
8. PROTECT ALL EXISTING FEATURES TO REMAIN. DAMAGE TO EXISTING ASPHALT, LAWN AND OTHER FEATURES TO REMAIN SHALL BE REPAIRED AT THE SITE CONTRACTOR'S EXPENSE.
9. DISTURBANCE ALL SURFACES THAT ARE DISTURBED DUE TO UTILITY CONSTRUCTION, OUTSIDE OF THE MAJOR WORK AREAS, ARE TO BE RESTORED TO PRE-CONSTRUCTION CONDITION, IN ACCORDANCE WITH THE ASPHALT AND CONCRETE SECTION DETAILS INCLUDED IN THESE PLANS. LAWN AREAS ARE TO BE RE-ESTABLISHED WITH A MINIMUM OF 4 INCHES OF TOPSOIL AND SEED.
10. HAZARDOUS MATERIAL ANY MATERIALS CONTAINING ASBESTOS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. NOTE THIS MAY INCLUDE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE TO NOTIFY THEM OF ANY UNDOCUMENTED HAZARDOUS MATERIAL.
11. EXISTING SERVICE THE CONTRACTOR SHALL MAINTAIN SERVICE FROM ALL UTILITIES NOT SLATED FOR DEMOLITION AND SHALL REMAIN FUNCTIONAL UPON COMPLETION OF DEMOLITION.
12. EXISTING UTILITIES THAT ARE PROPOSED TO BE REMOVED, UNLESS OTHERWISE INDICATED, SHALL BE EXCAVATED, UTILITY MATERIAL REMOVED, AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE SPECIFICATIONS. ALL TRENCHES SHALL BE BACKFILLED WITH GRANULAR FILL, COMPACTED IN 12" LIFTS TO 95% MODIFIED PROCTOR TEST. ALL DISTURBED AREAS SHALL BE RESTORED IN KIND IN ACCORDANCE WITH THE DETAILS IN THESE PLANS AND AT A MINIMUM TO THEIR ORIGINAL STATE.
13. SAWCUT AREAS OF ASPHALT AND CONCRETE REMOVAL SHALL BE SAWCUT WITH A NEAT STRAIGHT LINE AT ALL REMOVAL LIMITS.
14. PERMITS THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL PERMITS REQUIRED FOR DEMOLITION AND CONSTRUCTION, INCLUDING ALL FEES ASSOCIATED WITH THOSE PERMITS, IN THE BID.
15. ENVIRONMENTAL CONDITIONS OR ISSUES, NOT PREVIOUSLY IDENTIFIED, ARE ENCOUNTERED DURING DEMOLITION, THE CONTRACTORS(S) SHALL IMMEDIATELY NOTIFY THE OWNER AND ENGINEER BEFORE CONTINUING THE DEMOLITION PROCESS.
16. RECYCLE ALL MATERIALS WHEN APPROPRIATE.
17. SPOIL MATERIALS FROM DEMOLITION OR EARTHWORK, SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT THE SITE CONTRACTOR'S EXPENSE.
18. EXISTING STRUCTURES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED TO A DEPTH OF 2 FEET BELOW FINISHED GRADE. STRUCTURES SHALL BE FILLED WITH CRUSHED STONE, (MEETING NYSDOT STANDARD SPECIFICATION SECTION 304) COMPACTED IN 12" LIFTS TO 95% MODIFIED PROCTOR TEST.
19. FIELD TILE IN THE EVENT FIELD TILE IS ENCOUNTERED, THE SITE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER. UNDER NO CIRCUMSTANCES SHALL FIELD TILE BE PERMITTED TO EXIST NEAR BUILDING FOUNDATIONS.
20. ELECTRICAL DEMOLITION - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED TO COMPLETE THE DEMOLITION OF EXISTING ELECTRICAL FEATURES, INCLUDING BACKFILLING OF TRENCHES, AND SHALL COORDINATE WITH THE SITE CONTRACTOR ON BACKFILLING TRENCHES TO MEET THE SPECIFICATIONS OUTLINED WITHIN THE CONTRACT DOCUMENTS.

MAP REFERENCE:

ALL EXISTING CONDITIONS PROVIDED ON THE BASEMAP INCLUDING PROPERTY LINE INFORMATION, TOPOGRAPHY AND UTILITIES WERE TAKEN FROM MAP PROVIDED BY CONTROL POINT ASSOCIATES, INC DATED NOVEMBER 17, 2023.

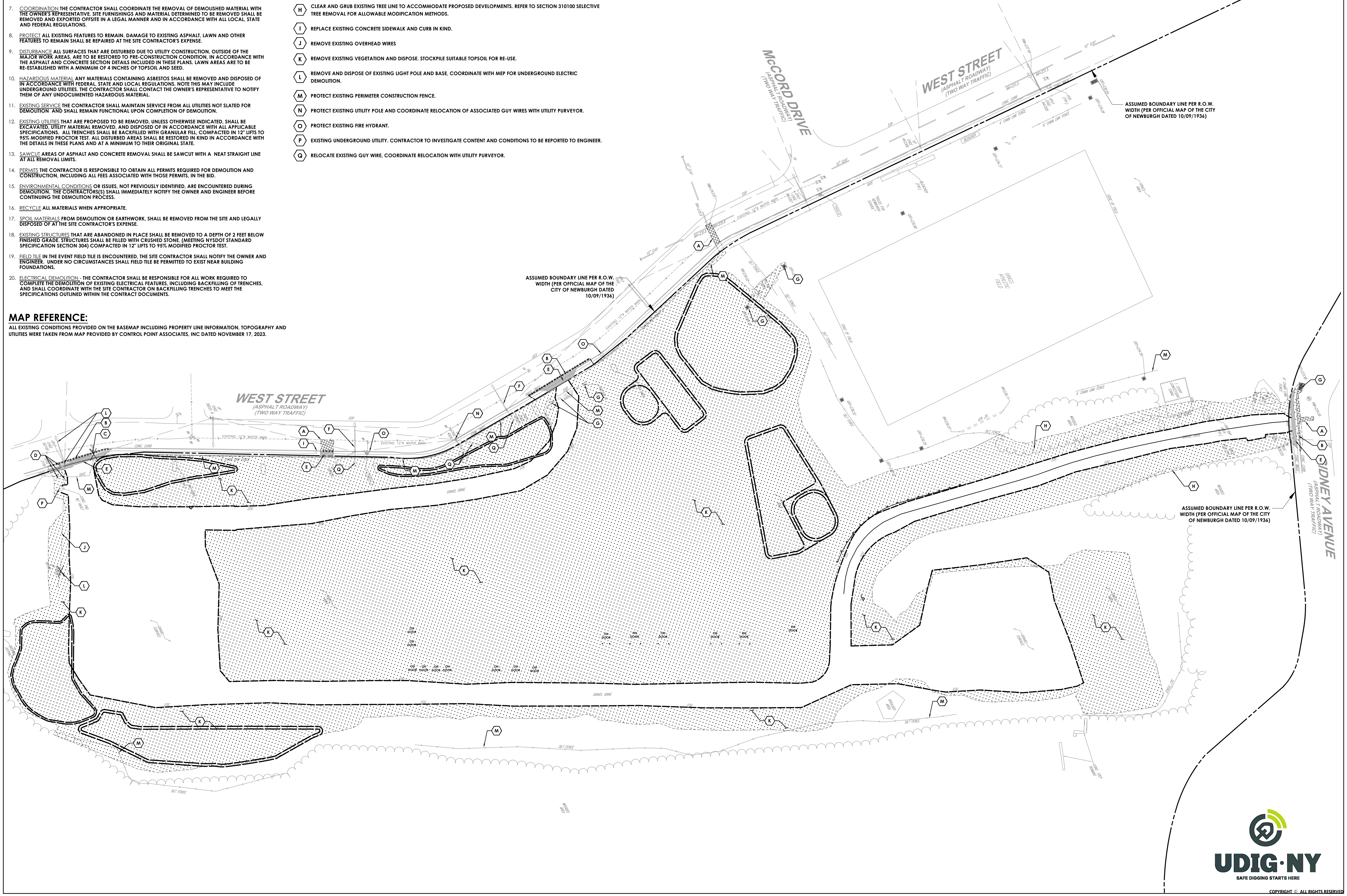
DEMOLITION KEY:

- A — SAWCUT EXISTING ASPHALT PAVEMENT.
- B — MODIFY EXISTING CURB CUT TO ACCOMMODATE PROPOSED DEVELOPMENT (AS SHOWN ON SHEET C130).
- C — RELOCATE EXISTING FIRE HYDRANT. (CONTRACTOR TO COORDINATE WITH UTILITY FIRE DEPARTMENT PURVEYOR FOR NEW LOCATION).
- D — RELOCATE EXISTING UTILITY POLE. (CONTRACTOR TO COORDINATE WITH UTILITY PURVEYOR FOR NEW LOCATION).
- E — REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK AND ASSOCIATED SUBBASE TO THE NEAREST JOINT AND DEPTH NECESSARY FOR PROPOSED INSTALLATION.
- F — PROTECT EXISTING LIGHT POLE AND ASSOCIATED BASE.
- G — EXISTING STORM SEWER STRUCTURE AND ASSOCIATED PIPING TO BE MODIFIED (AS SHOWN SHEET C140 - C142 & C150 - C152).
- H — CLEAR AND GRUB EXISTING TREE LINE TO ACCOMMODATE PROPOSED DEVELOPMENTS. REFER TO SECTION 310100 SELECTIVE TREE REMOVAL FOR ALLOWABLE MODIFICATION METHODS.
- I — REPLACE EXISTING CONCRETE SIDEWALK AND CURB IN KIND.
- J — REMOVE EXISTING OVERHEAD WIRES
- K — REMOVE EXISTING VEGETATION AND DISPOSE. STOCKPILE SUITABLE TOPSOIL FOR RE-USE.
- L — REMOVE AND DISPOSE OF EXISTING LIGHT POLE AND BASE, COORDINATE WITH MEP FOR UNDERGROUND ELECTRIC DEMOLITION.
- M — PROTECT EXISTING PERIMETER CONSTRUCTION FENCE.
- N — PROTECT EXISTING UTILITY POLE AND COORDINATE RELOCATION OF ASSOCIATED GUY WIRES WITH UTILITY PURVEYOR.
- O — PROTECT EXISTING FIRE HYDRANT.
- P — EXISTING UNDERGROUND UTILITY. CONTRACTOR TO INVESTIGATE CONTENT AND CONDITIONS TO BE REPORTED TO ENGINEER.
- Q — RELOCATE EXISTING GUY WIRE, COORDINATE RELOCATION WITH UTILITY PURVEYOR.

LEGEND:

- PROPERTY BOUNDARY
- EXISTING BUILDING
- EXISTING FEATURE TO BE REMOVED
- EXISTING FEATURE TO BE REMOVED
- EXISTING ASPHALT TO BE REMOVED
- EXISTING CONCRETE SIDEWALK TO BE REMOVED TO NEAREST JOINT
- CLEARING AND GRUBBING
- SAWCUT EDGE OF PAVEMENT

HORIZONTAL SCALE
40 0 20 40 80
SCALE: 1"=40'



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518 · 463 · 8068 www.csarchpc.com
PASSERO engineering architecture
CSARCH

Consultant

Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING
CTE NEWBURGH

STATE OF NEW YORK · CHRISTOPHER J. LAPORTA · 102592 · LICENSED PROFESSIONAL ENGINEER

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Proj. #:	44-16-00-01-0-053-001
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Sheet Title
EXISTING CONDITIONS & DEMOLITION PLAN

Sheet No.
CTE C120

CONSTRUCTION DOCUMENTS

UDIG·NY
SAFE DIGGING STARTS HERE

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SITE PLAN NOTES:

1. LAYOUT THE DIMENSIONS SHOWN ARE TO THE FACE OF THE CURB AND INCLUDES THE OVERALL SIDEWALK WIDTH, WHERE APPLICABLE.
2. ASPHALT ASPHALT SHALL BE CALCULATED BY WEIGHT (TONNAGE) USING THE SPECIFIED COMPACTED THICKNESS. PAVEMENTS WILL BE BASED ON THE TONNAGE PLACED AS ACCOUNTED FOR BY EACH DELIVERY TRUCK. FULL TIME ON-SITE OBSERVATION WILL BE PRESENT DURING ALL RELATED PAVING OPERATIONS.
3. VEHICULAR TRAFFIC SHALL NOT BE PERMITTED ON THE SURFACE OF SUBBASE COURSE MATERIAL ONCE IT HAS BEEN FINE GRADED, COMPACTED, AND IS READY FOR PAVING. SUBBASE MATERIAL PREPARED FOR PAVING SHALL BE PAVED WITHIN THREE DAYS OF PREPARATION.
4. SUBBASE MATERIAL AND THE VARIOUS ASPHALT CONCRETE MATERIALS CALLED FOR IN THESE DRAWINGS SHALL CONFORM WITH THE REFERENCED SECTION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, "LATEST EDITION". CONSTRUCTION SHALL BE AS FURTHER SET FORTH IN THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
5. PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF USING A SELF-PROPELLED PAVING MACHINE, WITH VIBRATING SCREED. PLACEMENT IN INACCESSIBLE AND SMALL AREAS MAY BE BY HAND.
6. JOINTS PROVIDE JOINTS BETWEEN OLD AND NEW PAVEMENT OR BETWEEN SUCCESSIVE DAYS WORK.
7. TACK COAT SHALL BE APPLIED TO BINDER COURSE. TACK COAT SHALL CONFORM WITH THE FOLLOWING:
   - A. TACK COAT SHALL MEET THE MATERIAL REQUIREMENTS OF 702-90 ASPHALT EMULSION FOR TACK COAT OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, "LATEST EDITION" AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 407. TACK COAT SHALL BE IN ACCORDANCE WITH THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
   - B. REMOVE LOOSE AND FOREIGN MATERIAL FROM ASPHALT SURFACE BEFORE PAVING NEXT COURSE. USE POWER BROOMS, BLOWERS OR HAND BROOM.
   - C. APPLY TACK COAT TO THE ASPHALT PAVEMENT SURFACES AND SURFACES OF CURBS, GUTTERS, MANHOLES, AND OTHER STRUCTURES PROJECTING INTO OR ABUTTING PAVEMENT. DRY TO A "TACKY" CONSISTENCY BEFORE PAVING.
   - D. TACK COAT ENTIRE VERTICAL SURFACE OF ABUTTING EXISTING PAVEMENT.
8. CLEAN SURFACE AFTER COMPLETION OF PAVING AND SURFACING OPERATIONS, CLEAN SURFACES OF EXCESS OR SPILLED ASPHALT, GRAVEL OR STONE MATERIALS TO THE SATISFACTION OF THE ENGINEER.

MUTCD SIGN SCHEDULE

SIGN NO.	SIGN FACE	MUTCD NUMBER	MIN SIZE	COLORS BCKGRND	COLORS LEGEND	MOUNTING
1	STOP	R1-1	24"X24"	RED	WHITE	10 C230
2	DO NOT ENTER	R5-1	30"X30"	RED	WHITE	10 C230
3	BUS OVERHANG FOR PASSENGER DROP OFF	NA	12"X18"	WHITE	BLACK	10 C230
4	BUS LOAD ZONE / NO PARKING ANYTIME / BUS PASSENGER DROP OFF ZONE	NA	(2)12"X12" (2)12"X18"	YELLOW/ RED/ WHITE	BLACK/ WHITE/RED	10 C230
5	DO NOT ENTER / BUSES ONLY	NA	18"X24"	WHITE (TOP) BLACK BOTTOM)	RED (TOP, OUTLINE) WHITE (BOTTOM)	10 C230
6	NO PARKING	R8-3A	18"X24"	WHITE	RED	10 C230
7	ONLY	R3-5	30"X36"	WHITE	BLACK	10 C230
8		R6-2	24"X30"	WHITE	BLACK	10 C230
9		R7-8	12"X18"	WHITE	GREEN	10 C230
10	VAN ACCESSIBLE	R7-8P	18"X9"	WHITE	GREEN	10 C230
11		R7230	12"X18"	WHITE	RED/ BLACK	10 C230
12		W11-2	24"X24"	YELLOW	BLACK	10 C230
13		W16-7PR	24"X12"	YELLOW	BLACK	10 C230
14		W16-7PL	24"X12"	YELLOW	BLACK	10 C230

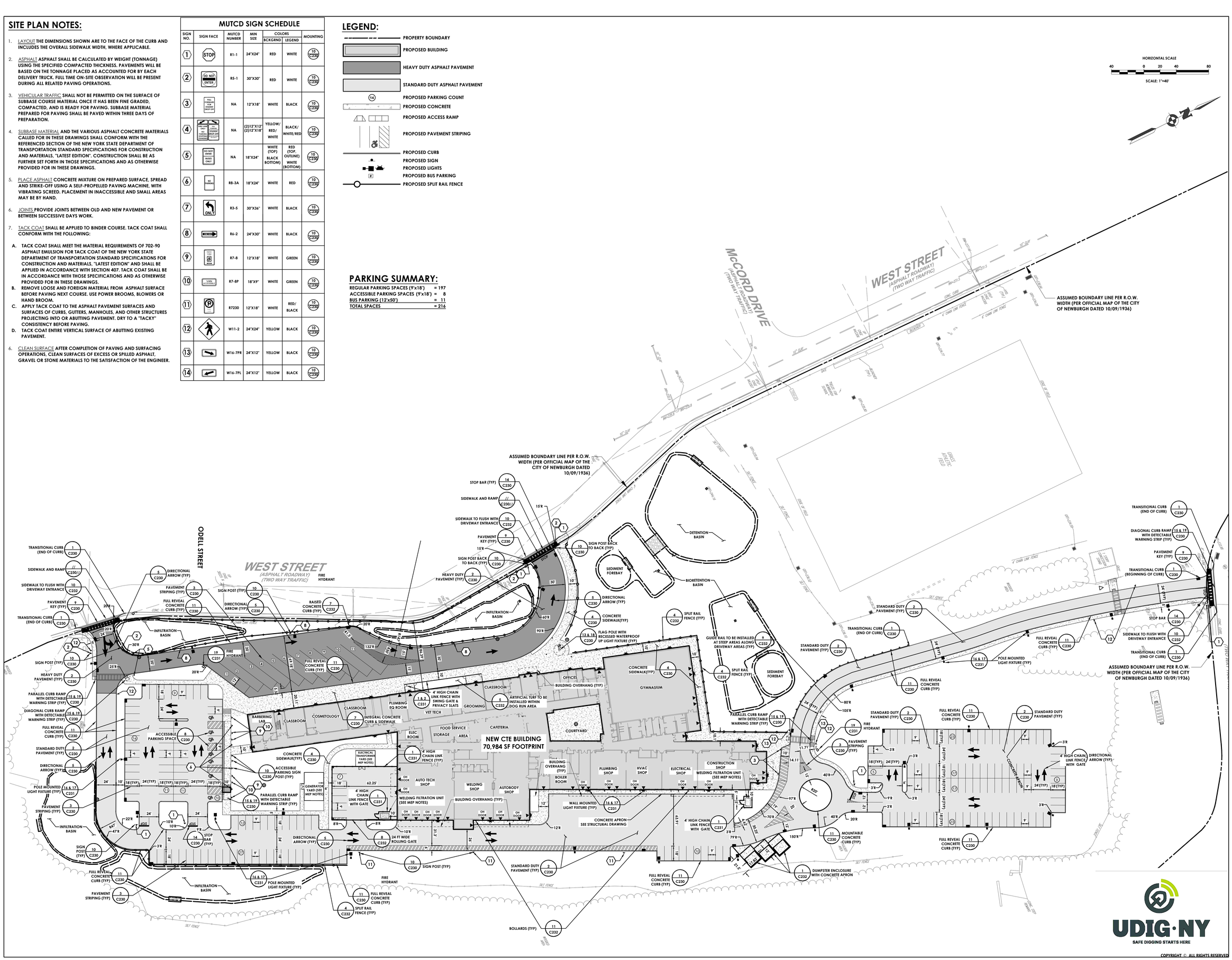
LEGEND:

- PROPERTY BOUNDARY
- PROPOSED BUILDING
- HEAVY DUTY ASPHALT PAVEMENT
- STANDARD DUTY ASPHALT PAVEMENT
- (14) PROPOSED PARKING COUNT
- PROPOSED CONCRETE
- PROPOSED ACCESS RAMP
- PROPOSED PAVEMENT STRIPING
- PROPOSED CURB
- PROPOSED SIGN
- PROPOSED LIGHTS
- PROPOSED BUS PARKING
- PROPOSED SPLIT RAIL FENCE

PARKING SUMMARY:

REGULAR PARKING SPACES (9'x18')	= 197
ACCESSIBLE PARKING SPACES (9'x18')	= 8
BUS PARKING (12'x50')	= 11
TOTAL SPACES	= 216

HORIZONTAL SCALE
40 0 20 40 80
SCALE: 1"=40'



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Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING
CTE NEWBURGH

STATE OF NEW YORK
CHRISTOPHER J. LOOS
T02597
LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	MP
Checked By:	SK
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title: **SITE PLAN**

Sheet No.: CTE **C130**

CONSTRUCTION DOCUMENTS

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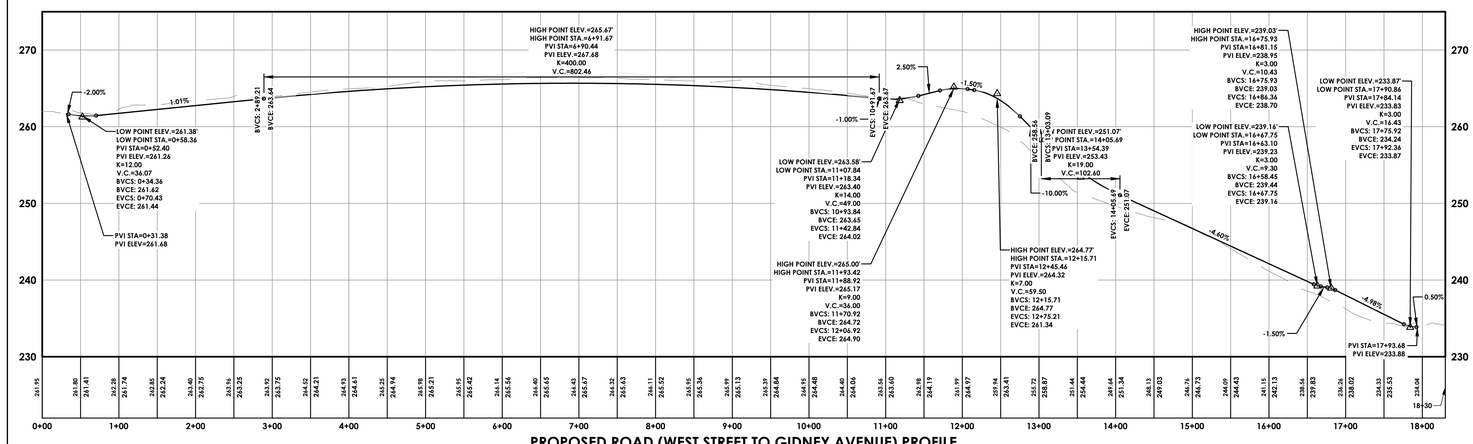


PROPOSED ROAD (WEST STREET TO GIDNEY AVENUE) PROFILE

SCALE: HORIZONTAL - 1" = 80'
VERTICAL - 1" = 8'

STORM NOTES:

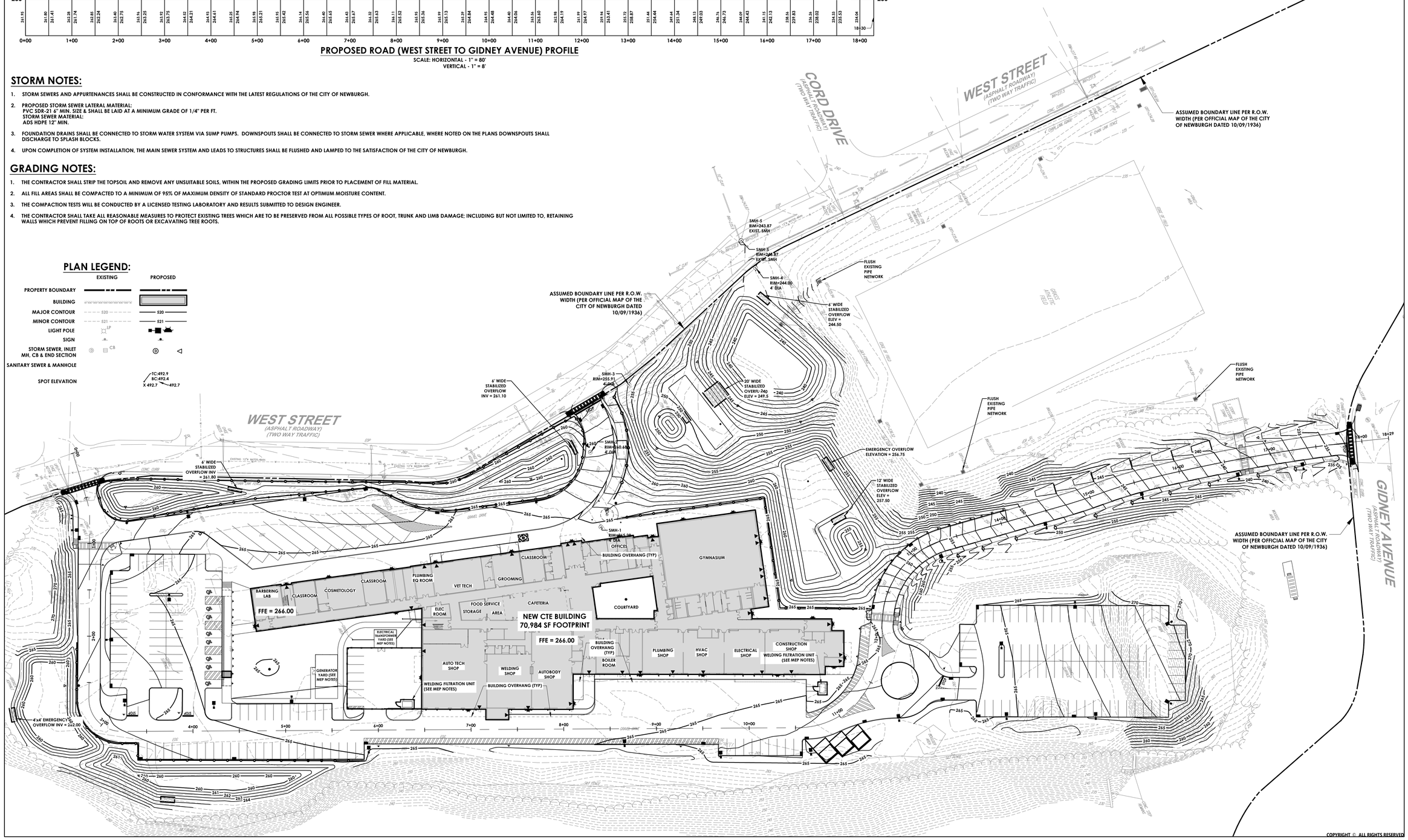
1. STORM SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE LATEST REGULATIONS OF THE CITY OF NEWBURGH.
2. PROPOSED STORM SEWER LATERAL MATERIAL:
   PVC SDR-21 6" MIN. SIZE & SHALL BE LAID AT A MINIMUM GRADE OF 1/4" PER FT.
   STORM SEWER MATERIAL:
   ADS HDPE 12" MIN.
3. FOUNDATION DRAINS SHALL BE CONNECTED TO STORM WATER SYSTEM VIA SUMP PUMPS. DOWNSPOUTS SHALL BE CONNECTED TO STORM SEWER WHERE APPLICABLE, WHERE NOTED ON THE PLANS DOWNSPOUTS SHALL DISCHARGE TO SPLASH BLOCKS.
4. UPON COMPLETION OF SYSTEM INSTALLATION, THE MAIN SEWER SYSTEM AND LEADS TO STRUCTURES SHALL BE FLUSHED AND LAMPED TO THE SATISFACTION OF THE CITY OF NEWBURGH.

GRADING NOTES:

1. THE CONTRACTOR SHALL STRIP THE TOPSOIL AND REMOVE ANY UNSUITABLE SOILS, WITHIN THE PROPOSED GRADING LIMITS PRIOR TO PLACEMENT OF FILL MATERIAL.
2. ALL FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY OF STANDARD PROCTOR TEST AT OPTIMUM MOISTURE CONTENT.
3. THE COMPACTION TESTS WILL BE CONDUCTED BY A LICENSED TESTING LABORATORY AND RESULTS SUBMITTED TO DESIGN ENGINEER.
4. THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO PROTECT EXISTING TREES WHICH ARE TO BE PRESERVED FROM ALL POSSIBLE TYPES OF ROOT, TRUNK AND LIMB DAMAGE; INCLUDING BUT NOT LIMITED TO, RETAINING WALLS WHICH PREVENT FILLING ON TOP OF ROOTS OR EXCAVATING TREE ROOTS.

PLAN LEGEND:

	EXISTING	PROPOSED
PROPERTY BOUNDARY		
BUILDING		
MAJOR CONTOUR	520	520
MINOR CONTOUR	521	521
LIGHT POLE	LP	
SIGN		
STORM SEWER, INLET MH, CB & END SECTION	CB	
SANITARY SEWER & MANHOLE		
SPOT ELEVATION		TC:492.9 BC:492.4 X 492.7 492.7



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Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
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CTE NEWBURGH

#	DATE	DESCRIPTION

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Checked By:	SK
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title

OVERALL GRADING PLAN

Sheet No.

CTE C140

CONSTRUCTION DOCUMENTS

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PLAN LEGEND:

	EXISTING	PROPOSED
PROPERTY BOUNDARY		
BUILDING		
MAJOR CONTOUR	520	520
MINOR CONTOUR	521	521
LIGHT POLE	LP	
SIGN		
STORM SEWER, INLET MH, CB & END SECTION	CB	
SANITARY SEWER & MANHOLE		
SPOT ELEVATION		TC:492.9 BC:492.4 X 492.7 492.7

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

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ASSUMED BOUNDARY LINE PER R.O.W. WIDTH (PER OFFICIAL MAP OF THE CITY OF NEWBURGH DATED 10/09/1936)

MATCH LINE (SEE C141)
MATCH LINE (SEE C142)

WEST STREET
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)

BIORETENTION BASIN #1
1,764.18 SF BED
BED ELEV = 248.75
TOP OF BERM = 249.75
(3 / C233)

SEDIMENT FOREBAY #1
19.98 SF BED
1,861.99 CF
BED ELEV = 246.75
TOP OF BERM = 250.75

RIP RAP SIZE=9'x8'
d_{50}=4": d_{MAX}=6"
BLANKET THICKNESS=9"

DS-14
RIM=257.18
DIVERSION STR

SMH-3
RIM=255.91
4' DIA

FES-14.1
SW INV = 249.25

4' WIDE STABILIZED
OVERFLOW INV = 261.10

DS-13
RIM=258.45
2'x2' CB

DS-12
RIM=257.99
2'x2' CB

STOP

TC=259.53
BC=259.03

TC=258.75
BC=258.25

DS-59 (2'X2' CB)
RIM=261.00
OUTLET CTRL STRUCTURE

INFILTRATION BASIN #4
376.89 SF BED
BED ELEV = 259.00
TOP OF BERM = 262.00

SMH-2
RIM=260.68
4' DIA

FES-44.1
SE INV = 256.00

TC=261.83
BC=261.33

TC=261.90
BC=261.40

RIP RAP SIZE=9'x8'
d_{50}=4": d_{MAX}=6"
BLANKET THICKNESS=9"

FES-03.1
E INV = 258.00

6' WIDE STABILIZED OVERFLOW
INV = 261.80

TC=263.25
BC=263.02

TC=262.85
BC=261.85

TC=263.20
BC=262.70

TC=263.00
BC=262.50

TC=263.43
BC=262.93

TC=263.89
BC=263.39

TC=264.58
BC=264.08

TC=264.67
BC=264.17

DS-9
RIM=262.99
2'x2' CB

DS-10
RIM=264.82
2'x2' CB

FES-10.1
E INV = 257.90

TC=264.15
BC=263.65

TC=265.16
BC=264.66

TC=265.58
BC=265.08

PRE-TREATMENT UNIT #3
RIM=264.70
CONTECH CDS-4-C

DS-44
RIM=263.83
YD INLET

SMH-1
RIM=265.28
4' DIA

RIP RAP SIZE=9'x8'
d_{50}=4": d_{MAX}=6"
BLANKET THICKNESS=9"

DS-1
RIM=261.25
2'x2' CB

TC=262.20
BC=261.70

DS-2
RIM=261.46
2'x2' CB

TC=261.71
BC=261.21

TC=262.36
BC=261.86

TC=263.90
BC=263.40

TC=264.50
BC=264.00

PRE-TREATMENT #2
RIM=262.44
CONTECH CDS-4-C

TC=261.71
BC=261.71

TC=262.31
BC=262.31

TC=262.23
BC=261.73

TC=263.21
BC=262.71

TC=264.14
BC=263.64

DS-4
RIM=263.03
2'x2' CB

TC=264.44
BC=264.14

TC=265.86
BC=265.36

TC=265.97
BC=265.47

TC=265.84
BC=265.34

TC=265.72
BC=265.22

TC=265.78
BC=265.28

TC=265.70
BC=265.20

TC=265.86
BC=265.36

TC=265.65
BC=265.15

TC=265.78
BC=265.28

TC=265.45
BC=265.45

DS-5
RIM=263.43
2'x2' CB

TC=264.97
BC=264.47

TC=264.93

TC=262.67
BC=262.17

TC=263.66
BC=263.16

TC=265.75
BC=265.75

TC=265.79
BC=265.79

TC=265.67
BC=265.67

TC=265.49
BC=265.49

TC=264.47
BC=263.97

TC=263.59
BC=263.09

TC=263.11
BC=262.61

TC=263.97
BC=263.47

DS-6
RIM=263.14
2'x2' CB

DS-42
RIM=264.75
YARD INLET

TC=264.02
BC=263.52

TC=264.17
BC=263.67

TC=263.79
BC=263.29

TC=263.76
BC=263.76

TC=264.13
BC=264.13

TC=265.19
BC=265.19

TC=266.49
BC=265.99

TC=265.74
BC=265.24

TC=265.50
BC=265.00

TC=264.27
BC=265.77

TC=265.92
BC=265.42

RIP RAP SIZE=9'x8'
d_{50}=4": d_{MAX}=6"
BLANKET THICKNESS=9"

TC=263.69
BC=263.19

FES-7.1
NE INV = 259.50

INFILTRATION BASIN #2
4,046.16 SF BED
BED ELEV = 260.00
TOP OF BERM = 263.00

PRE-TREATMENT UNIT #1
RIM=263.06
CONTECH CDS-3-C

4'x4' EMERGENCY
OVERFLOW INV = 262.00

TC=264.77
BC=264.27

STOP

TC=265.11
BC=264.61

DS-8
RIM=263.57
2'x2' CB

TC=264.26
BC=263.76

DS-37
RIM=264.31
2'x2' CB

TC=265.15
BC=264.65

TC=265.02
BC=264.52

TC=265.82
BC=265.32

TC=265.45
BC=264.95

TC=265.73
BC=265.23

DS-36
RIM=265.71
2'x2' CB

TC=265.81
BC=265.31

TC=265.78
BC=265.28

TC=265.59
BC=265.09

TC=265.24
BC=264.74

DS-59
RIM=264.65

INFILTRATION BASIN #1
1,899.43 SF BED
BED ELEV = 260.00
TOP OF BERM = 264.00

4'x4' EMERGENCY
OVERFLOW INV = 263.75

DS-37.1
NW INV = 261.00

RIP RAP SIZE=9'x8'
D_{50}=4": D_{MAX}=6"
BLANKET THICKNESS=9"

ELECTRICAL TRANSFORMER YARD (SEE MEP NOTES)

GENERATOR YARD (SEE MEP NOTES)

DS-34
RIM=265.17
2'x2' CB

DS-35
RIM=265.23
2'x2' CB

WELDING FILTRATION UNIT (SEE MEP NOTES)

DS-43
RIM=265.50
YD INLET

COURTYARD

OFFICES

BUILDING OVERHANG (TYP)

CLASSROOM

FFE = 266.00

PLUMBING EQ ROOM

VET TECH

GROOMING

BARBERING LAB

CLASSROOM

COSMETOLOGY

FOOD SERVICE

STORAGE

AREA

CAFETERIA

ELEC ROOM

NEW CTE BUILDING
70,984 SF FOOTPRINT

AUTO TECH SHOP

WELDING SHOP

AUTOBODY SHOP

BOILER ROOM

PLUMBING SHOP

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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING
CTE NEWBURGH

STATE OF NEW YORK
CHRISTOPHER J. LAURIA
102592
LICENSED PROFESSIONAL ENGINEER

No.	DATE	DESCRIPTION

Drawn By:	MP
Checked By:	SK
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
GRADING PLAN

Sheet No.
CTE C141

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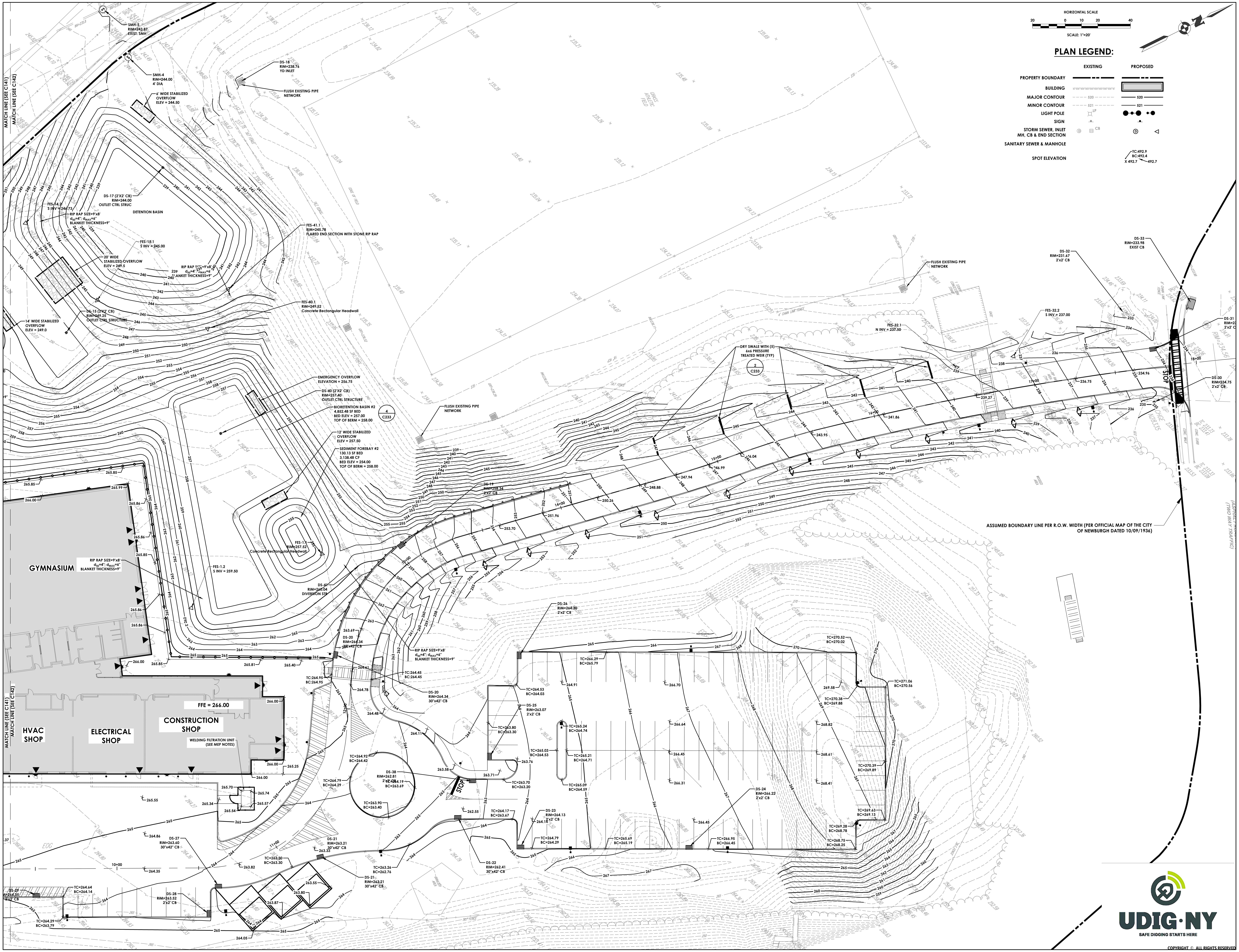

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Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING
CTE NEWBURGH

Drawn By:	MP
Checked By:	SK
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

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GRADING PLAN

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CTE C142

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

PLAN LEGEND:

	EXISTING	PROPOSED
PROPERTY BOUNDARY		
BUILDING		
MAJOR CONTOUR	520	520
MINOR CONTOUR	521	521
LIGHT POLE	LP	
SIGN		
STORM SEWER, INLET MH, CB & END SECTION	CB	D
SANITARY SEWER & MANHOLE	S	S
WATER LINE		W
SANITARY SEWER		SA
NATURAL GAS (SEE DWG. P101)		G
ELECTRIC (SEE DWG. ES100 & E111)		E

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STANDARD SANITARY SEWER EXTENSION NOTES:

1. MAXIMUM ALLOWABLE INFILTRATION OR EXFILTRATION SHALL NOT EXCEED 100 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER DAY FOR THE SANITARY SEWER. IF AN AIR TEST IS USED, THE TEST AS A MINIMUM SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM DESIGNATION C828-86 ENTITLED PRACTICE FOR LOW-PRESSURE AIR TEST OF VITRIFIED CLAY PIPE LINES. SANITARY MANHOLES SHALL BE VISUALLY INSPECTED AND TESTED FOR LEAKAGE BY EXFILTRATION OR VACUUM. VACUUM TESTING OF MANHOLES SHALL COMPLY WITH THE METHOD OUTLINED IN THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION - TECHNICAL INFORMATION PAMPHLET (TIP) NO. 15 (LATEST REVISION).
2. FLOOR DRAINS, IF CONSTRUCTED IN THE PROJECT, MUST BE CONNECTED TO THE SANITARY SEWER. NOTE: FLOOR DRAINS DO NOT INCLUDE FOUNDATION OR FOOTER DRAINS INSTALLED TO INTERCEPT UNCONTAMINATED GROUND WATER. ALL DISCHARGES FROM THE FLOOR DRAINS TO THE SANITARY SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR THE MONROE COUNTY SEWER USE LAW.
3. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
4. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER LINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN PIPE SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PIPELINE PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS PIPES AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS.

UTILITY NOTES:

1. PRIOR TO THE START OF UTILITY INSTALLATION THE SITE CONTRACTOR (AND ANY SUBSITE CONTRACTORS) IS RESPONSIBLE FOR COORDINATION OF ALL UTILITY CONNECTIONS WITH MECHANICAL/ARCHITECTURAL DRAWINGS FOR INCLUDING BUT NOT LIMITED TO VERTICAL AND HORIZONTAL LOCATION, PENETRATIONS, AND SIZES. THE SITE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROCEED WITH UTILITY INSTALLATION BY THE OWNER'S ONSITE REPRESENTATIVE UPON COMPLETION OF COORDINATION WITH SITE CONTRACTORS AND PLANS.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR COORDINATING GAS, ELECTRICAL, CABLE, TELEPHONE AND ANY OTHER UTILITIES NOT SPECIFICALLY SHOWN WITHIN THIS PLAN SET WITH THE MECHANICAL/ELECTRICAL/PLUMBING PLAN SET AND THE APPROPRIATE AGENCY. PASSERO ASSOCIATES ASSUMES NO RESPONSIBILITY FOR THE DESIGN OR PERFORMANCE OF UTILITIES NOT SPECIFICALLY SHOWN WITHIN THIS PLAN SET.
3. PRIOR TO THE START OF UTILITY INSTALLATION THE SITE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY AND COORDINATE WITH EXISTING UTILITIES SHOWN ON THE PLANS AND REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER. THE SITE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROCEED WITH UTILITY INSTALLATION BY THE OWNER'S ONSITE REPRESENTATIVE UPON COMPLETION OF EXISTING UTILITY VERIFICATION.
4. UTILITY CROSSINGS THE SITE CONTRACTOR SHALL EXCAVATE AND VERIFY THE LOCATION OF EXISTING UTILITIES AT ALL PROPOSED CROSSINGS AND NOTIFY THE OWNERS ONSITE REPRESENTATIVE OF ANY CONFLICTS PRIOR TO UTILITY INSTALLATION. THE SITE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROCEED WITH INSTALLATION UPON UTILITY VERIFICATION COMPLETION.
5. FLUSH EXISTING STORM SEWER THE SITE CONTRACTOR SHALL FLUSH THE EXISTING STORM SEWER PRIOR TO PROJECT COMPLETION FOR REVIEW.
6. LATERALS ALL STORM, SANTIARY, WATER ETC. LATERALS SHALL BE CONSTRUCTED TO 5' FROM THE FACE OF THE BUILDING, VERTICAL AND HORIZONTAL LOCATION SHALL BE COORDINATED WITH THE PLUMBING/MEP SITE CONTRACTORS.

STANDARD WATER MAIN EXTENSION NOTES:

WATER DISTRIBUTION SYSTEM MAY NOT BE PLACED INTO SERVICE UNTIL AN APPROVAL OF COMPLETED WORKS IS ISSUED BY THE ULSTER COUNTY DEPARTMENT OF HEALTH.

WATER MAINS AND APPURTENANCES TO BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS AND SPECIFICATIONS OF THE ULSTER COUNTY DEPARTMENT OF HEALTH:

MATERIAL

1. WATER MAIN(S) SHALL BE 8 INCH PVC MEETING AWWA STANDARD C900.
2. WATER METER(S) AND BACKFLOW PREVENTION DEVICES SHALL BE LOCATED ON THE INTERIOR OF EACH BUILDING.
3. ALL GATE VALVES SHALL HAVE STAINLESS STEEL BODY AND BONNET BOLTS.

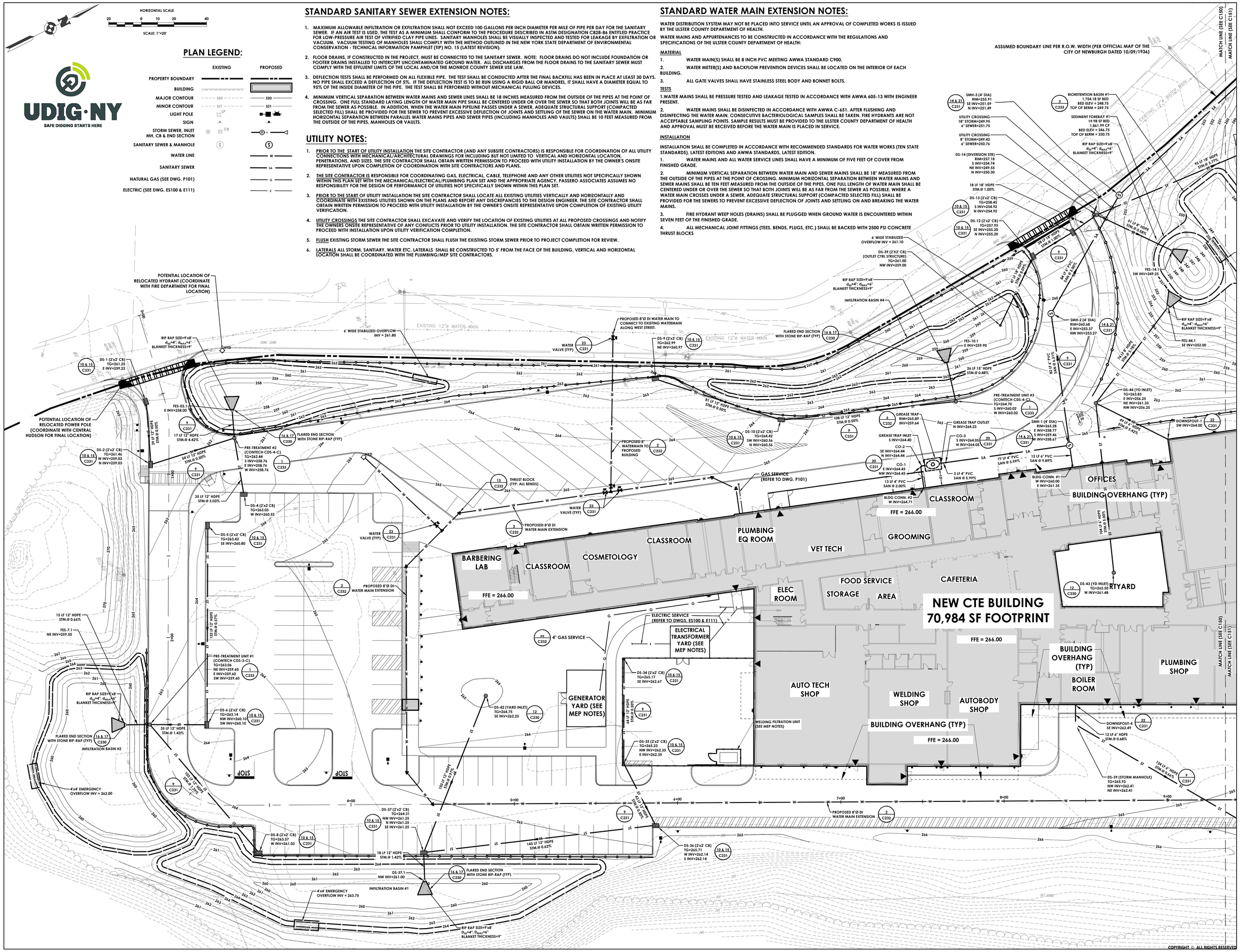
TESTS

1. WATER MAINS SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA 605-13 WITH ENGINEER PRESENT.
2. WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C-651. AFTER FLUSHING AND DISINFECTING THE WATER MAIN, CONSECUTIVE BACTERIOLOGICAL SAMPLES SHALL BE TAKEN. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS. SAMPLE RESULTS MUST BE PROVIDED TO THE ULSTER COUNTY DEPARTMENT OF HEALTH AND APPROVAL MUST BE RECEIVED BEFORE THE WATER MAIN IS PLACED IN SERVICE.

INSTALLATION

INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH RECOMMENDED STANDARDS FOR WATER WORKS (TEN STATE STANDARDS), LATEST EDITIONS AND AWWA STANDARDS, LATEST EDITION.

1. WATER MAINS AND ALL WATER SERVICE LINES SHALL HAVE A MINIMUM OF FIVE FEET OF COVER FROM FINISHED GRADE.
2. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAIN AND SEWER MAINS SHALL BE 18" MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SEWER MAINS SHALL BE TEN FEET MEASURED FROM THE OUTSIDE OF THE PIPES. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWERS TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING THE WATER MAINS.
3. FIRE HYDRANT WEEP HOLES (DRAINS) SHALL BE PLUGGED WHEN GROUND WATER IS ENCOUNTERED WITHIN SEVEN FEET OF THE FINISHED GRADE.
4. ALL MECHANICAL JOINT FITTINGS (TEES, BENDS, PLUGS, ETC.) SHALL BE BACKED WITH 2500 PSI CONCRETE THRUST BLOCKS



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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING
CTE NEWBURGH

STATE OF NEW YORK
CHRISTOPHER J. LABONTE
102592
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION

Drawn By:	MP
Checked By:	SK
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
UTIILTY PLAN

Sheet No.
CTE
C150

CONSTRUCTION DOCUMENTS

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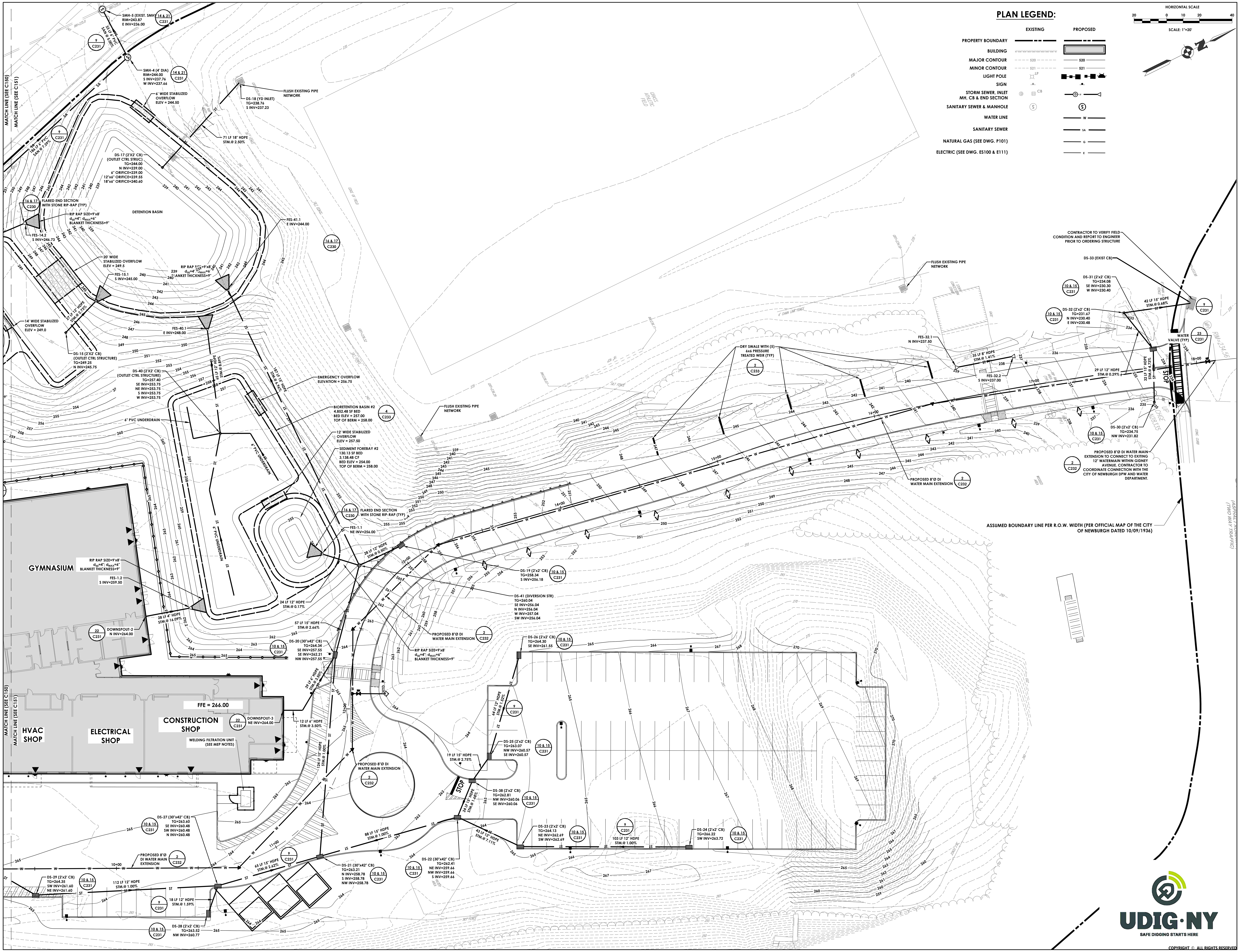

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UTIILTY PLAN

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CTE
C151

CONSTRUCTION DOCUMENTS

TOPSOIL AND SEEDING NOTES:

1. THE EARTHWORK SITE CONTRACTOR IS RESPONSIBLE FOR ROUGH GRADING AND RE-SPREADING TOPSOIL IN ALL TURF AND LANDSCAPE AREAS (BEDS AND ISLANDS).
2. THE LANDSCAPE SITE CONTRACTOR IS RESPONSIBLE FOR FINE GRADING AND PREPARATION OF ALL LAWN AND LANDSCAPE AREAS.
3. REMOVE ALL EXISTING VEGETATION DURING GRADING PROCESS.
4. APPLY MINIMUM OF 6 INCHES OF CLEAN TOPSOIL (IMPORTED OR SCREEN ON -SITE) AND FINE GRADE, LEAVING TOPSOIL IN A LOOSE AND FRIABLE CONDITION FOR SEEDING.
5. LIME SOIL OR ADD OTHER ORGANIC AMENDMENTS AS NECESSARY TO ACHIEVE A SOIL pH BETWEEN 5.5 - 7.0.
6. LANDSCAPE SITE CONTRACTOR SHALL WORK OVER ALL DISTURBED LAWN AREAS THAT HAVE REMAINED PARTIALLY INTACT. TOP DRESSING WITH SOIL, SCARIFYING, AND SEEDING TO FORM A SMOOTH, FULL, EVEN LAWN, FREE OF BARE SPOTS, INDENTATIONS, AND WEEDS.
7. SEEDING SHALL BEGIN IMMEDIATELY UPON COMPLETION OF FINE GRADING. SEED SHOULD BE PRESSED INTO THE SOIL TO CREATE GOOD SEED-TO-SOIL CONTACT, NO DEEPER THAN THE THICKNESS OF THE SEED.
8. A 10-0-10 FERTILIZER SHALL BE APPLIED EVENLY AT THE RATE OF 20 POUNDS PER 1000 SQ FT. NO FERTILIZER CONTAINING PHOSPHORUS IS PERMITTED ON SITE.
9. SEED SHALL BE APPLIED EITHER BY HAND BROADCASTING OR HYDRO SEEDING. TWO PASSES SHALL BE MADE IN PERPENDICULAR DIRECTIONS TO INSURE PROPER COVERAGE.
10. LAWN SEED MIX

    MIX A: SEEDING RATE: 6 LBS./1,000 SQ.FT
    LOW MAINTENANCE FESCUE LAWN
    PREFERRED SEED: LOW MAINTENANCE GRASS SEED MIX OR APPROVED EQUAL

    25% FIREFLY HARD FESCUE
    25% BIG HORN GT HARD/SHEEP
    20% INTRIGUE CHEWINGS FESCUE
    20% QUATRO SHEEP FESCUE
    10% MINOTAUR HARD FESCUE

    **SEED MIX B IS TO BE USED ONLY FOR WET-OCCASIONALLY WET LOCATIONS.*

    MIX B: SEEDING RATE: 4LBS./1,000 SQ.FT
    OCCASIONAL WET - WET LOCATIONS:

20% RED TOP	20% VIRGINIA WILD RYEGRASS
20% ALKALI GRASS	20% FOX SEDGE
10% AUTUMN BENTGRASS	10% FOWL BLUEGRASS

11. DRY APPLICATION MULCH

    A. STRAW MULCH SHOULD BE APPLIED TO NEWLY SEEDED AREAS WITHIN 12 HOURS IF HYDRO MULCH IS NOT UTILIZED.
    B. DRY APPLICATION, STRAW: STALKS OF OATS, WHEAT, RYE OR OTHER APPROVED CROPS WHICH ARE FREE OF NOXIOUS WEEDS. WEIGHT SHALL BE BASED ON A 15 PERCENT MOISTURE CONTENT.
    C. DRY APPLICATION: WITHIN ONE DAY AFTER SEEDING, COVER THE SEEDED AREAS WITH A UNIFORM BLANKET OF STRAW MULCH AT THE RATE OF 100 POUNDS PER 1000 SQ FT OF SEEDED AREA.

12. HYDRO APPLICATION: APPLY APPROVED MULCH IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDED RATES OF APPLICATION. APPLY SEEDING MATERIALS WITH AN APPROVED HYDRO SEEDER.

    A. COLORED WOOD CELLULOSE FIBER PRODUCT SPECIFICALLY DESIGNED FOR USE AS A HYDRO-MECHANICAL APPLIED MULCH. ACCEPTABLE PRODUCT: CONWED HYDRO MULCH, CONWED FIBERS, 231 4TH STREET SW, HICKORY, NC

13. FILL TANK WITH WATER AND AGITATE WHILE ADDING SEEDING MATERIALS. USE SUFFICIENT FERTILIZER, MULCH, AND SEED TO OBTAIN THE SPECIFIED APPLICATION RATE. ADD SEED TO THE TANK AFTER THE FERTILIZER AND MULCH HAVE BEEN ADDED. MAINTAIN CONSTANT AGITATION TO KEEP CONTENTS IN HOMOGENEOUS SUSPENSION. PROLONGED DELAYS IN APPLICATION OR AGITATION THAT MAY BE INJURIOUS TO THE SEED WILL BE THE BASIS OF REJECTION OF MATERIAL REMAINING IN TANK.
14. DISTRIBUTE A SLURRY MIXTURE OF WATER, SEED, FERTILIZER, AND MULCH UNIFORMLY AT A MINIMUM RATE OF 57 GALLONS PER 1000 SQ FT (2500 GALLONS PER ACRE). THE OWNER AND ONSITE PROJECT REPRESENTATIVE MAY ORDER THE AMOUNT OF WATER INCREASED IF DISTRIBUTION OF SEEDING MATERIALS IS NOT UNIFORM.

CONSTRUCTION SEQUENCE FOR GRADING AND EROSION CONTROL:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
2. CONSTRUCT EROSION CONTROL MEASURES AND STORMWATER MANAGEMENT AREAS AS SHOWN ON THE PLANS.
3. CONSTRUCT TEMPORARY/PERMANENT SWALES AS SHOWN ON THE CONTRACT DOCUMENTS.
4. CLEAR AND GRUB THE PROJECT IMPROVEMENTS AREAS.
5. STRIP TOPSOIL AND STOCKPILE FOR LATER USE.
6. GRADE IMPROVEMENT AREAS WITHIN THE PROJECT SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 7 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH WITHIN 7 DAYS OF THE LAST DISTURBANCE.
7. CONSTRUCT SEDIMENTATION BARRIERS AS SHOWN ON THIS PLAN.
8. REPLACE TOPSOIL AND FINE GRADE.
9. HYDRO-SEED ALL DISTURBED AREAS WITHIN 10 DAYS AFTER FINAL GRADING, SITE CONTRACTOR IS RESPONSIBLE TO RESEED IF GRADING IS UNSATISFACTORY.
10. UPON APPROVAL OF THE ENGINEER, SITE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS.
11. SLOPES SHALL NOT EXCEED 1' VERTICAL TO 3' HORIZONTAL MAX. MAINTAIN 1:4 WHERE POSSIBLE.
12. MINIMUM OF 6" OF TOPSOIL IS TO BE PLACED ON ALL GRASS AREAS.
13. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BASED UPON ACTUAL FIELD CONDITIONS AS ORDERED BY ENGINEER (AOBE). SITE CONTRACTOR SHALL PROVIDE FOR THIS COST IN THEIR CONTRACT.
14. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES FROM INSTALLATION THROUGH MAINTENANCE AND REMOVAL AFTER NEW VEGETATION HAS BEEN ESTABLISHED.
15. ALL END SECTIONS SHALL BE PROVIDED WITH RIP-RAP APRONS.
16. ALL EROSION AND SEDIMENT CONTROL METHODS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL BY A QUALIFIED CONTRACTOR.

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 PERMITEE 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-0-20-001).

SOIL RESTORATION NOTES

1. ALL DISTURBED LAWN AREAS TO RECEIVE SOIL RESTORATION.
2. TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12" USING CAT-MOUNTED RIPPER, TRACTOR MOUNTED DISC, OR TILLER, MIXING, AND CIRCULATING AIR AND COMPOST INTO SUBSOILS.
3. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF 4" AND LARGER ARE CLEANED OFF SITE.
4. APPLY TOPSOIL TO A DEPTH OF 6" ON ALL AREAS BEING RETURNED TO GRASS.
5. VEGETATE AS REQUIRED BY APPROVED PLAN.

COMPACTION NOTES

1. THE CONTRACTOR SHALL STRIP THE TOPSOIL AND REMOVE ANY UNSUITABLE SOILS, WITHIN THE PROPOSED GRADING LIMITS PRIOR TO PLACEMENT OF FILL MATERIAL.
2. ALL FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY OF STANDARD PROCTOR TEST AT OPTIMUM MOISTURE CONTENT.
3. THE COMPACTION TESTS SHALL BE CONDUCTED BY A LICENSED TESTING LABORATORY AND RESULTS SUBMITTED TO DESIGN ENGINEER.
4. ALL AREAS WITHIN INFILTRATION BASIN AND BIORETENTION SHALL BE PROTECTED FROM COMPACTION THROUGHOUT CONSTRUCTION.

GENERAL PERMIT NOTES

PROPOSED PROJECT COMPLY WITH CURRENT NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES (PERMIT NO. GP-0-20-001).

EROSION & SEDIMENT CONTROL NOTES:

IN ACCORDANCE WITH SECTIONS 107-12 AND 209-3.01 OF THE NYSDOT STANDARD SPECIFICATIONS, THE SITE CONTRACTOR SHALL REVIEW THE EROSION AND SEDIMENT CONTROL PLAN INCLUDED IN THE CONTRACT DOCUMENTS, AND IF NECESSARY, MODIFY THE PLAN WITH THE SITE CONTRACTOR'S INTENDED SEQUENCE AND TYPES OF OPERATIONS. THE SITE CONTRACTOR'S MODIFIED EROSION AND SEDIMENT CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL, ALONG WITH A PROGRESS SCHEDULE THAT ADDRESSES THIS WORK.

1. IN ACCORDANCE WITH SECTIONS 107-12 AND 209-3.01 OF THE NYSDOT STANDARD SPECIFICATIONS, THE SITE CONTRACTOR SHALL DESIGNATE AN "EROSION AND SEDIMENT CONTROL SUPERVISOR" FOR THE PROJECT. THE SUPERVISOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL PLAN AND FOR INSPECTING AND MAINTAINING THE CONTROL MEASURES. THE NAME AND QUALIFICATIONS (TRAINING AND EXPERIENCE) OF THIS INDIVIDUAL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING EARTHWORK.
2. THE DESIGNATED "EROSION AND SEDIMENT CONTROL SUPERVISOR" SHALL NOTIFY THE ENGINEER IN ADVANCE OF ANY FIELD CHANGES TO THE EROSION AND SEDIMENT CONTROL MEASURES INDICATED IN THE CONTRACT DOCUMENTS. THE ENGINEER MAY REQUIRE THE SITE CONTRACTOR TO SUBMIT A MODIFIED EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL PRIOR TO IMPLEMENTING ANY FIELD CHANGES.
3. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF FROM DISTURBED AREAS IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL DEVICES BEFORE ENTERING A WATER BODY OR WETLAND.
4. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE FOR WHICH THEY ARE INTENDED AND SHALL REMAIN IN PLACE UNTIL SOILS ARE PERMANENTLY STABILIZED.
5. UNDER NO CONDITION SHALL DISCONTINUED CONSTRUCTION ACTIVITIES IN AREAS WITH SOIL DISTURBANCES BE LEFT FOR A PERIOD OF GREATER THAN 7 DAYS WITHOUT TEMPORARILY STABILIZING THOSE AREAS WITH TEMPORARY SEED AND MULCH. MAINTENANCE OF THOSE AREAS SHALL INCLUDE RESEEDING AND REMULCHING AS NEEDED TO ESTABLISH A SATISFACTORY STAND OF GRASS. THERE SHALL BE NO ADDITIONAL PAYMENT FOR RESEEDING AND REMULCHING.
6. NO WET OR FRESH CONCRETE, LEACHATE, MATERIAL, OR DEBRIS SHALL BE ALLOWED TO ESCAPE INTO A WATER BODY OR WETLAND, NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER A WATER BODY OR WETLAND. ANY MATERIAL OR DEBRIS ACCIDENTALLY DROPPED INTO THE CHANNEL SHALL BE IMMEDIATELY AND COMPLETELY REMOVED AND DEPOSITED IN AN UPLAND PROTECTED AREA.
7. THE SITE CONTRACTOR SHALL COVER TEMPORARY STOCKPILES OF ERODIBLE MATERIAL (SUCH AS TOPSOIL OR EARTH FILL) WITH POLY SHEETING, OR RING THE STOCKPILES WITH SILT FENCE TO CONTROL EROSION. POLY SHEETING SHALL COMPLETELY COVER THE STOCKPILE AND BE SECURELY ANCHORED AT ALL TIMES. ANY POLY SHEETING OR SILT FENCE THAT IS DAMAGED SHALL BE PROMPTLY REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER. RINGED STOCKPILES EXPOSED OR EXPECTED TO BE EXPOSED FOR LONGER THAN 7 CALENDAR DAYS SHALL IMMEDIATELY BE STABILIZED WITH APPROPRIATE MEASURES. THE COST OF COVERING AND RINGING/STABILIZING STOCKPILES SHALL BE INCLUDED IN THE PRICE BID FOR THE CORRESPONDING STOCKPILED MATERIAL.
8. DUST CONTROL MEASURES SHALL BE APPLIED AS NEEDED. SWEEP ROADWAYS WHEN THEY BECOME SEDIMENT LADEN. MINIMIZE DISTURBED AREAS, APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING WATER. WATER SHALL BE SPRAYED AS NEEDED BUT AVOID EXTRA SPRAYING WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

LEGEND:

- PROPERTY BOUNDARY
- PROPOSED BUILDING
- PROPOSED SIGN
- PROPOSED LIGHT
- 520 EXISTING MAJOR CONTOUR
- 521 EXISTING MINOR CONTOUR
- 520 PROPOSED MAJOR CONTOUR
- 521 PROPOSED MINOR CONTOUR
- SF SILT FENCE
- PROPOSED STORM SEWER, INLET MH, CB & END SECTION
- EXISTING STORM SEWER & MH
- PROPOSED WATER SERVICE W/ HYDRANT & VALVE
- PROPOSED SANITARY SEWER AND MANHOLE
- EXISTING SANITARY SEWER & MANHOLE
- PROPOSED INLET PROTECTION
- EXISTING TREE/BRUSH LINE
- SLOPE STABILIZATION MATTING
- LIMITS OF DISTURBANCE

EARTHWORK NOTES:

1. PREPARATION - PRIOR TO START OF EARTHWORK OPERATIONS THE CONTRACTOR SHALL COMPLETE THE FOLLOWING APPLICABLE ITEMS AS DEFINED BY CONTRACT DOCUMENTS:
   - SITE DEMOLITION - REMOVAL AND DISPOSAL OFF-SITE IN A LEGAL MANNER; STRUCTURES, UTILITIES, PAVEMENTS, ETC.
   - CLEARING AND GRUBBING - REMOVAL AND DISPOSAL OFF-SITE IN A LEGAL MANNER; TREES, BRUSH, STUMPS,ETC.
   - TOPSOIL STRIPPING - STRIP AND STOCKPILE TOPSOIL FOR REUSE. EXCESS TOPSOIL MAY BE REMOVED FROM SITE WITH APPROVAL BY SCHOOL DISTRICT & CITY.
2. RESPONSIBILITY - THE CONTRACTOR IS RESPONSIBLE FOR:
   - ESTIMATE - COMPLETION OF A QUANTITY TAKEOFF TO DETERMINE THE VOLUME OF CUT, FILL, AND TOPSOIL. COMPARE AND COORDINATE WITH INFORMATION PROVIDED BY THE DESIGN ENGINEER.
   - GRADE TOLERANCES - ESTABLISHING DESIGN SUBGRADE ELEVATIONS TO WITHIN ONE TENTH OF ONE FOOT (0.10') IN PAVEMENT AREAS (INCLUDING WALKS) AND TO WITHIN THIRTY-THREE HUNDREDTHS OF ONE FOOT (0.33') FOR ALL REMAINING AREAS.
   - COMPACTION - ACHIEVING THE SPECIFIED MINIMUM COMPACTION VALUES FOR EMBANKMENT/FILL AREAS. THE TERMS "FILL" AND EMBANKMENT" ARE INTERCHANGEABLE.
   - CUTS - ONCE EXCAVATIONS ARE SHAPED TO THE DESIGN GRADES THE AREAS SHALL BE PROTECTED TO ASSURE THAT THE INTEGRITY OF MATERIAL IS NOT COMPROMISED BY CONSTRUCTION VEHICLES AND/OR IMPROPER DRAINAGE. AREAS DETERMINED BY CONTRACTOR TO BE NOT SUITABLE FOR SUBGRADE PLACEMENT SHALL BE IMMEDIATELY REPORTED WHEN THE SUBGRADE IS ESTABLISHED TO OWNER'S REPRESENTATIVE. STABILIZATION MEASURES FOR CUT AREAS MAY BE CONSIDERED BY OWNER'S REPRESENTATIVE AS A CHANGE TO THE BASE CONTRACT.
3. TESTING - THE FOLLOWING MAXIMUM DRY DENSITIES SHALL BE ACHIEVED AS MEASURED BY THE STANDARD PROCTOR METHOD ASTM D-698:
   - 95% UNDER PAVEMENTS, WALKS, AND IN STRUCTURAL FILL AREAS
   - 85% IN REMAINING AREAS

   THE AGREEMENT BETWEEN THE OWNER AND CONTRACTOR SHALL DEFINE THE NUMBER OF TESTS AND RESPONSIBILITY. WE RECOMMEND IN EMBANKMENT AREAS ONE PER LIFT AND/OR ONE PER 1,000 CUBIC YARDS.
4. LIFT THICKNESS - THE MAXIMUM LIFT THICKNESS UNDER PAVEMENTS, WALKS, AND STRUCTURAL FILLS SHALL BE 12 INCHES. HAND OPERATED COMPACTION FILLS SHALL NOT EXCEED 6 INCHES.

TEMPORARY CONSTRUCTION AREA SEEDING NOTES

1. THE AREA SHALL BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE.
2. SEEDING SHALL TAKE PLACE WITHIN 24 HOURS OF DISTURBANCE OR SCARIFICATION OF THE SOIL SHALL BE NEEDED PRIOR TO SEEDING.
3. TYPICALLY FERTILIZER OR LIME SHALL NOT USED FOR TEMPORARY SEEDING.
4. ANY SEEDING METHOD MAY BE USED THAT PROVIDES UNIFORM APPLICATION OF SEED TO THE AREA.
5. SEEDING

PLANTING SEASON	SPECIES	RATE IN LBS./ACRE
SPRING, SUMMER, OR EARLY FALL	RYE GRASS (ANNUAL OR PERENNIAL)	30
LATE FALL OR EARLY WINTER	WINTER RYE (CEREAL RYE)	100

*MULCH THE AREA WITH HAY OR STRAW AT 2 TONS/ACRE. WOOD FIBER, HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL MAY BE USED IF APPLIED ACCORDING TO SPECIFICATIONS.

HORIZONTAL SCALE
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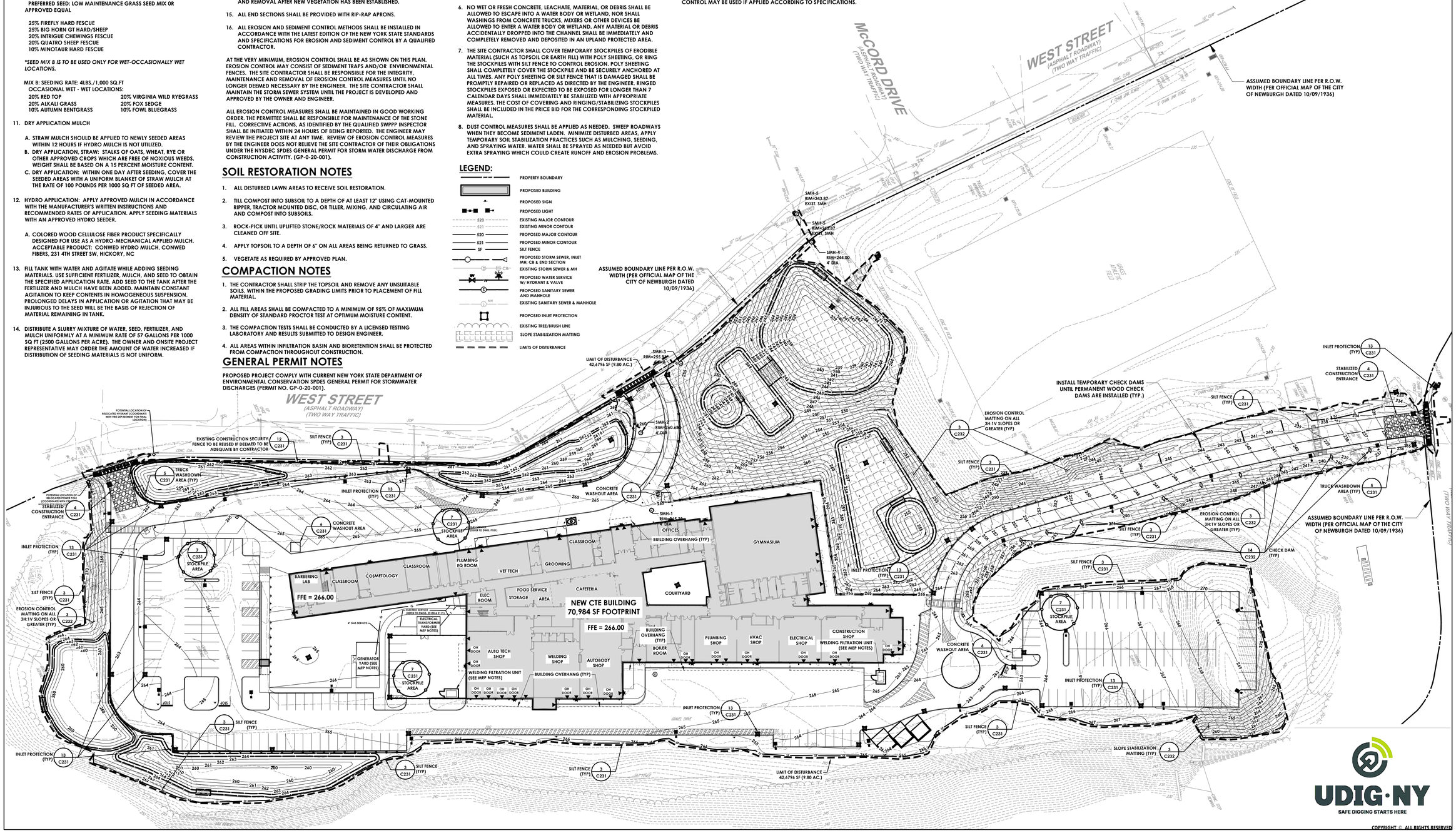
SCALE: 1"=40'



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Issued for Bid:	4/15/2024

Sheet Title
EROSION & SEDIMENT CONTROL PLAN

Sheet No.
CTE C160

CONSTRUCTION DOCUMENTS

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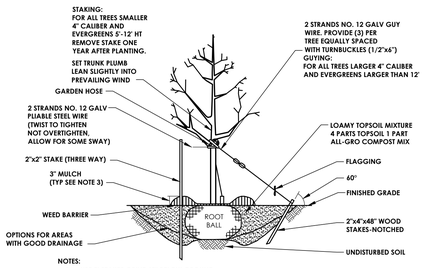
LANDSCAPING NOTES:

1. CONTRACTOR SHALL OBTAIN ALL REQUIRED STATE AND LOCAL PERMITS. ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE DESIGN STANDARDS AND CODES.
2. IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE PRIOR TO BID SUBMITTAL, TO BECOME FAMILIAR WITH EXISTING CONDITIONS AT THE SITE.
3. STANDARDS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", ANSI Z60.1 (LATEST EDITION) REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE THE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIALS DELIVERED AND INSTALLED ON THIS PROJECT.
4. ALL PLANTS MUST BE HEALTHY, VIGOROUS AND FREE OF PESTS AND DISEASE.
5. ALL PLANTS MUST BE HARDY UNDER CLIMATE CONDITIONS THAT EXIST AT THE PROJECT SITE AND GROWN AT A NURSERY IN THE SAME HARDINESS ZONE AS THE PROJECT LOCATION.
6. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AN MEET SIZE REQUIREMENTS AS INDICATED ON THE PLANT LIST.
7. ALL TREES MUST BE STRAIGHT-TRUNKED, INJURY FREE, HAVE A FULL, SYMMETRICAL CROWN (HEAD) AND MEET ALL REQUIREMENTS SPECIFIED (E.G. SINGLE STEM, MULTI-STEM, HEAVY BRANCHED, ETC.).
8. ANY PROPOSED DEVIATION TO THE LANDSCAPE PLAN MUST FIRST BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF THE PROPOSED LANDSCAPING CHANGES.
9. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS. THE BID PRICE SUBMITTED WILL ASSUME THAT ALL PLANT MATERIALS DELINEATED WILL BE SUPPLIED AND INSTALLED. ANY DISCREPANCIES IN THE QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR DESIGN ENGINEER PRIOR TO COMPLETING A BID PRICE.
10. ALL GRADING AND UTILITY WORK SHALL BE COMPLETED PRIOR TO INSTALLATION OF PLANT MATERIAL AND LANDSCAPE MULCH.
11. THE FINAL LOCATION OF TREES AND OTHER LANDSCAPING SHALL BE DETERMINED IN THE FIELD BASED ON UTILITY STAKEOUT AND SHALL NOT CONFLICT WITH TRAFFIC SIGNS AND/OR UTILITIES. STAKE OUT SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
12. ANY CONCERNS RELATED TO SITE CONDITIONS AND/OR PLANT LOCATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S ONSITE REPRESENTATIVE PRIOR TO INSTALLATION.
13. PLANTING BACKFILL MIXTURE: 4 PARTS TOPSOIL (ON-SITE OR IMPORTED), 1 PART PEAT MOSS, 1/2 PART WELL ROTTED MANURE AND 10 LBS. 5-0-5 PLANTING FERTILIZER, MIXED THOROUGHLY PER CUBIC YARD.
14. MULCH ALL PLANT BEDS, AND INDIVIDUAL TREES IN LAWN AREAS WITH SHREDDED HARDWOOD BARK MULCH TO A DEPTH OF THREE (3") INCHES UNLESS OTHERWISE SPECIFIED ON PLANTING DETAILS, OR AS DIRECTED BY THE LANDSCAPE ARCHITECT DUE TO SITE CONDITIONS.
15. ANY PLANT WHICH TURNS BROWN, DEFOLIATES OR DIES PRIOR TO FINAL ACCEPTANCE BY THE OWNER, OR DESIGN ENGINEER, SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH THE SAME PLANT (SPECIES, VARIETY AND SIZE) AS SPECIFIED ON THE PLANT SCHEDULE (LIST) AT THE CONTRACTOR'S EXPENSE.
16. THE CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIALS AND LAWN AREAS UNTIL THE PROJECT HAS RECEIVED FINAL ACCEPTANCE BY THE OWNER OR THE OWNER'S ONSITE REPRESENTATIVE. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO: WATERING, MULCHING, FERTILIZING, SPRAYING, AS WELL AS RAISING PLANTS THAT HAVE SETTLED TOO DEEP OR REQUIRE STRAIGHTENING.
17. UPON COMPLETION AND ACCEPTANCE OF THE LANDSCAPING, THE LANDSCAPE MATERIALS SHALL BE GUARANTEED FOR TWO (2) YEARS. THE GUARANTEE SHALL BE INCLUSIVE OF ALL MATERIAL AND LABOR COSTS. AT THE END OF THE GUARANTEE PERIOD THE OWNER'S ONSITE REPRESENTATIVE WILL INSPECT ALL PLANT MATERIALS. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REQUIRED REPLACEMENTS WITH PLANT MATERIALS MEETING THE SPECIFICATIONS (E.G. SPECIES, SIZE AND CHARACTER).
18. ALL AREAS DISTURBED BY SITE GRADING AND/OR UTILITY INSTALLATION SHALL RECEIVE APPROVED TOPSOIL (BASED ON APPROVED SAMPLES SUBMITTED BY THE CONTRACTOR) AND SPREAD TO A DEPTH NOT LESS THAN 6" INCHES AFTER COMPACTION. TOPSOIL PLACED FOR LAWNS SHALL BE FINE GRADED, SEEDED, MULCHED AND WATERED UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED. THIS IS EXCLUDING FOUNDATION PLANT BEDS, AND ENTRANCE AREAS.
19. LOCATIONS OF EXISTING BURIED UTILITIES SHOWN ON THE SITE PLAN ARE BASED UPON THE BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO CALL FOR A UTILITY STAKEOUT PRIOR TO COMMENCING PLANT INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, AND SITE APPURTENANCES WHICH OCCURS AS A RESULT OF LANDSCAPE INSTALLATION OPERATIONS.
20. EXISTING TREES INDICATED TO BE REMOVED SHALL INCLUDE ENTIRE TREE AND STUMP, ALL REMOVED MATERIAL TO BE LEGALLY DISPOSED OF OFF SITE AND ALL DISTURBED AREAS SHALL BE RESTORED TO THE NATURE OF ITS SURROUNDING AREA.
21. ALL SHRUB BEDS ADJACENT TO LAWN AREAS SHALL HAVE A SPADED EDGE BORDER, UNLESS METAL EDGE, CONCRETE, OR OTHER BORDER IS SPECIFIED.
22. ALL DECIDUOUS TREES CALIPERS TO BE MEASURED 6" FROM GROUND LEVEL ROOT BALL.
23. ALL EVERGREEN TREES MUST BE DESIGNATED "HEAVY" DELIVERED BALLED AND BURLAPPED.
24. CONTRACTOR TO TAKE SPECIAL CARE WHEN PLANTING AND WATERING FALL HAZARD PLANT MATERIAL.
25. UPON COMPLETION AND ACCEPTANCE OF THE LANDSCAPING, A TWO (2) YEAR MAINTENANCE GUARANTEE IS REQUIRED.

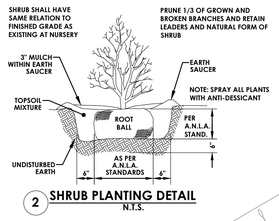
NEWBURGH CSD PLANT SCHEDULE

SYMBOL	KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING / SPREAD	REMARKS	MATURE HEIGHT
DECIDUOUS TREES									
	AR	7	Acer rubrum "Red Sunset"	Red Sunset Maple	3-3 1/2"	B&B	As Shown	Fall Planting Hazard	40-45'
	LS	2	Liquidambar styraciflua	Sweetgum	2-2 1/2"	B&B	As Shown	Fall Planting Hazard	40-50'
	PAB	6	Platanus x acerifolia	Bloodgood London Plane Tree	3-3 1/2"	B&B	As Shown	Fall Planting Hazard	75' H.
	QR	3	Quercus rubra	Northern Red Oak	3-3 1/2"	B&B	As Shown	Fall Planting Hazard	50-75'
	ZS	7	Zelkova serrata "Village Green"	Village Green Japanese Zelkova	3-3 1/2"	B&B	As Shown	Fall Planting Hazard	50-65'
EVERGREEN TREES									
	JS	19	Juniperus scopulorum "Blue Arrow"	Blue Arrow Juniper	4-5' H	B&B	5' OC	Screen Planting	10-12'
	PA	3	Picea abies	Norway Spruce	6-7' H	B&B	As Shown		
	PS	3	Pinus strobus	White Pine	6-7' H	B&B	As Shown		
FLOWERING AND ORNAMENTAL TREES									
	CC	8	Cercis canadensis "The Rising Sun"	The Rising Sun Redbud	6-7' H.	B&B	8-12"	Fall Planting Hazard	6-8'
	MJ	4	Magnolia "Jane"	Jane Magnolia	5-6'	#10 Cont.	8-12'		10-15'
	SR	9	Syringa reticulata "Ivory Silk"	Ivory Silk Japanese Lilac	2-2 1/2"	B&B	As Shown	Tree Form	20'
SHRUBS									
	HM	13	Hydrangea macrophylla "Bailmer"	Endless Summer Bigkeaf Hydrangea	24-30"	#5 Cont.	As Shown		2-3'
	SJ	15	Spiraea japonica "Neon Flash"	Neon Flash Spirea	18-24"	#3 Cont.	As Shown		2-3'
	TO	15	Thuja occidentalis "Bobozam"	Mr. Bowling Ball Arborvitae	24-30"	#3 Cont.	As Shown		2-3'



NOTES:
1. USE 8' STAKES-DRIVE 48" BELOW GROUND.
2. ROOT COLLAR TO BE SLIGHTLY ABOVE SURROUNDING GRADE.
3. MULCH CAN NOT BE MORE THAN 1" THICK AT ROOT COLLAR EXTENDING OUT AT LEAST 6" FROM THE BARK, THEN IT CAN BE THICKENED.
4. MULCH IS TO BE PLACED 3" TO 6" AWAY FROM THE TRUNK.

1 TREE PLANTING DETAIL
N.T.S.



2 SHRUB PLANTING DETAIL
N.T.S.

LEGEND:

- PROPERTY BOUNDARY
- EXISTING BUILDING
- PROPOSED ACCESS RAMP
- PROPOSED CURB
- PROPOSED SIGN
- EXISTING SIGN
- PROPOSED LIGHT POLE
- EXISTING TREE
- EXISTING TREELINE
- PROPOSED TREE

HORIZONTAL SCALE
40 0 20 40 80
SCALE: 1"=40'

UDIG·NY
SAFE DIGGING STARTS HERE

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Project Title
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NEW CTE BUILDING
CTE NEWBURGH

STATE OF NEW YORK
CHRISTOPHER J. LADURA
102592
LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	MP
Checked By:	SK
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
LANDSCAPE PLAN

Sheet No.
CTE C170

CONSTRUCTION DOCUMENTS

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LUMINAIRE SCHEDULE (SEE LIGHTING NOTES #3)										
LABEL	SYMBOL	QUANITITY	LIGHT FIXTURE CATALOG NUMBER	DESCRIPTION	POLE CATALOG NUMBER	MOUNT HEIGHT (SEE LIGHTING NOTES #5)	LUMENS	INPUT WATTAGE	B.U.G. RATING	CORRELATED COLOR TEMPERATURE
A		25	A17-5T70N	RAB LIGHTING POLE MOUNTED AREA LIGHT	PS4-11-15D2	17 FT	±9385	70.8	B3-U0-G3	4000K
B		SEE ELECTRICAL PLANS FOR WALL PACK LIGHTING								

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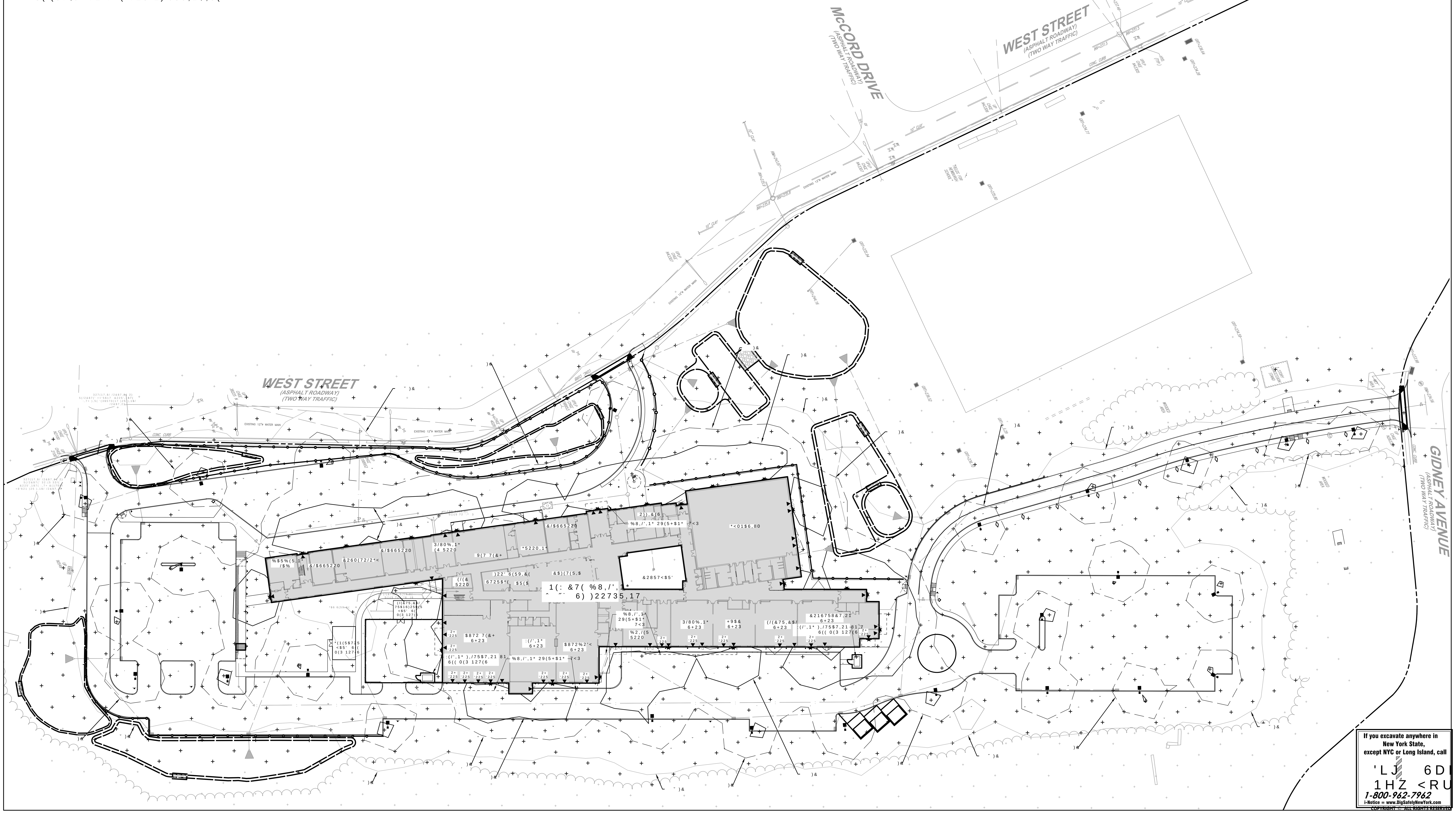

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CSARCH
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518 463 8068

Consultant

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STATE OF NEW YORK
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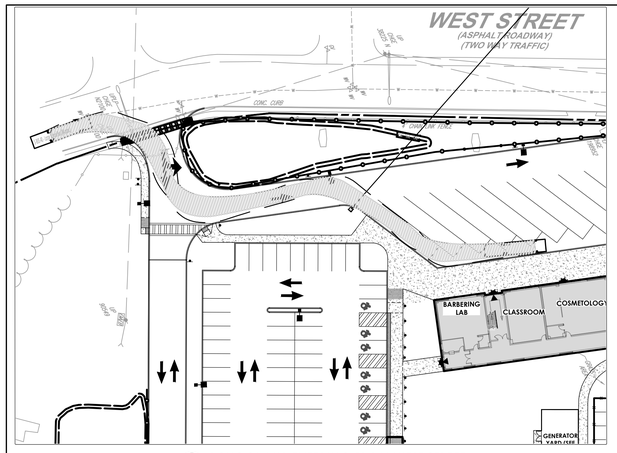
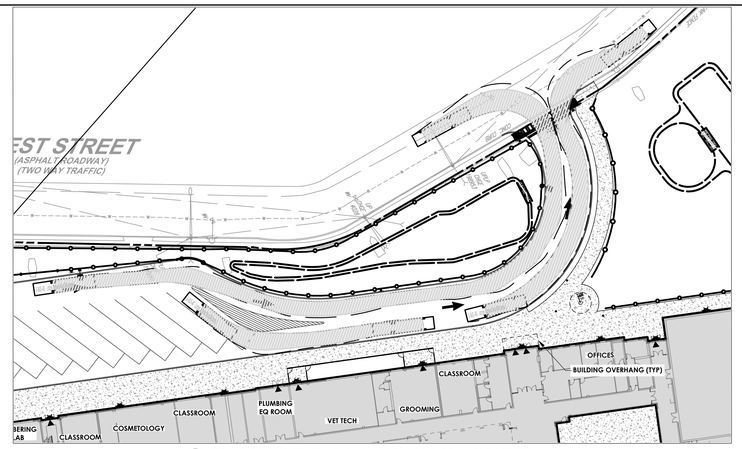
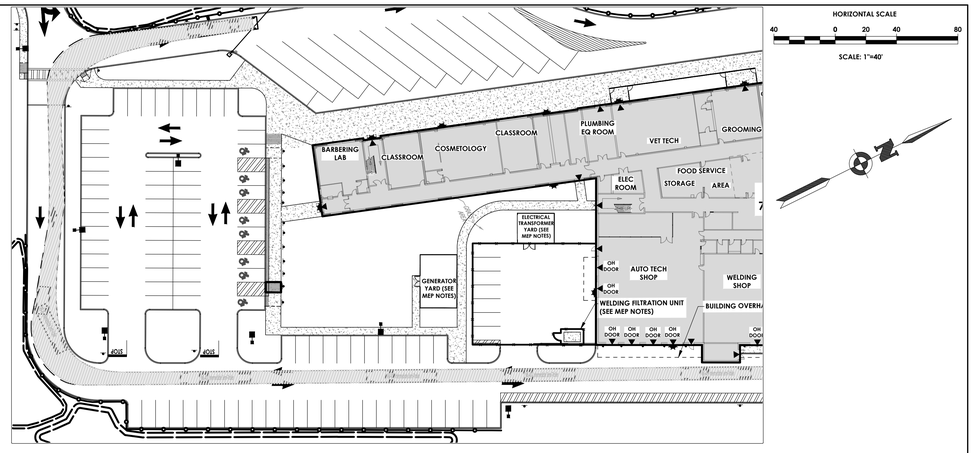


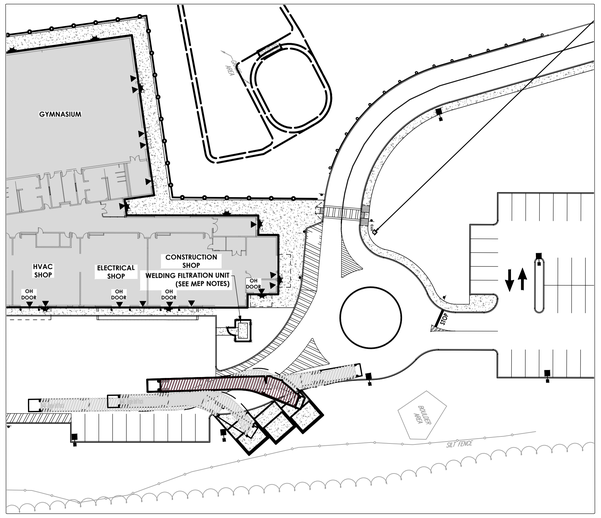
1 **SCHOOL BUS ENTERING FROM WEST STREET**
SCALE: 1"=40'



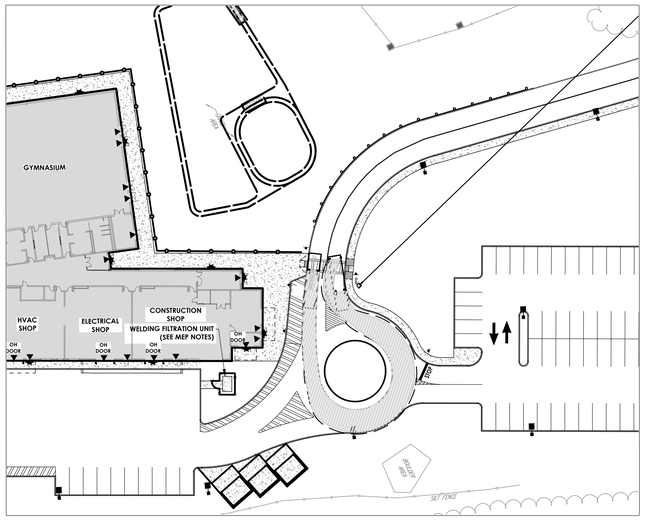
2 **SCHOOL BUS EXITING PARKING AREA TO WEST STREET**
SCALE: 1"=40'



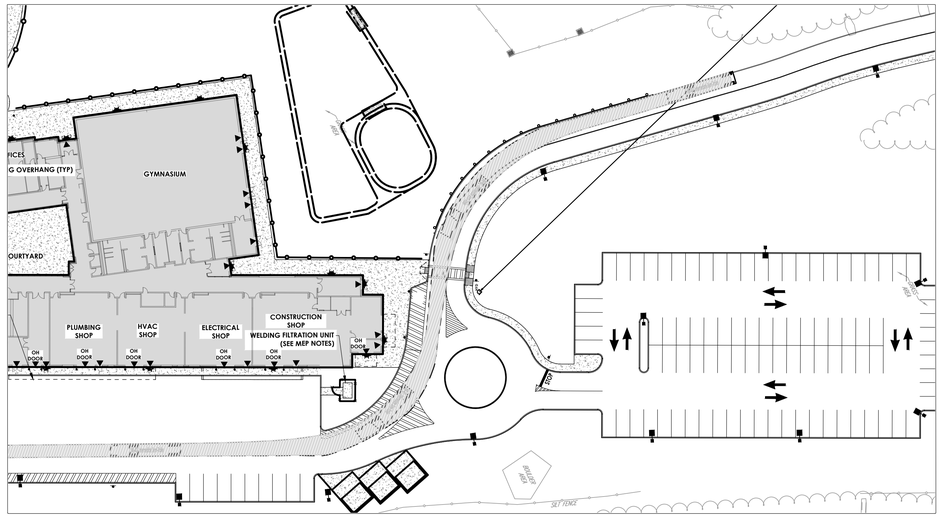
3 **TRUCK WITH TRAILER MANEUVERING FROM LOADING DOCK TO DRIVEWAY NEAR WEST STREET**
SCALE: 1"=40'



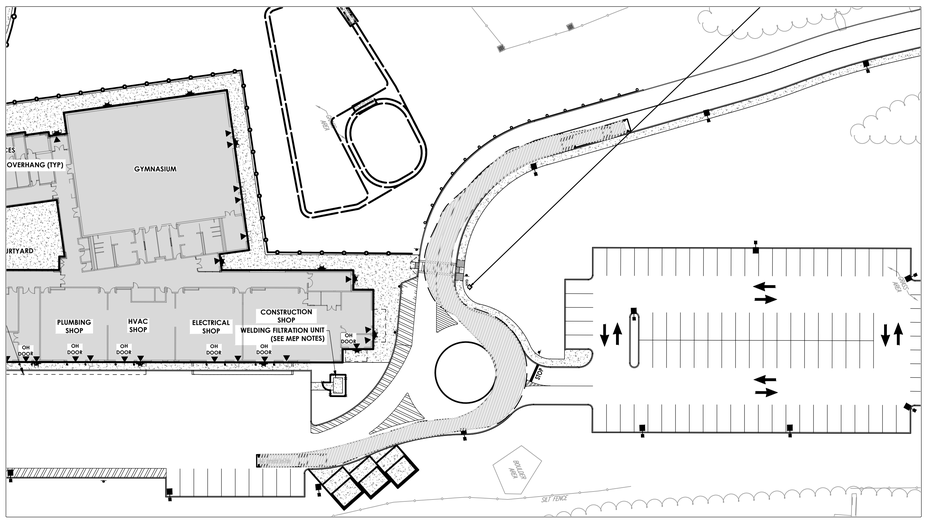
4 **TRUCK PICKING UP DUMPSTER**
SCALE: 1"=40'



5 **SCHOOL BUS MANEUVERING AROUND ROUNDABOUT**
SCALE: 1"=40'



6 **TRUCK WITH TRAILER MANEUVERING AROUND ROUNDABOUT TO LOADING DOCK**
SCALE: 1"=40'



7 **TRUCK WITH TRAILER FROM LOADING DOCK MANEUVERING AROUND ROUNDABOUT**
SCALE: 1"=40'

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Drawn By:	MP
Checked By:	SK
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2301
Issued for Bid:	4/15/2024

Sheet Title
TRUCK MANEUVERABILITY PLAN

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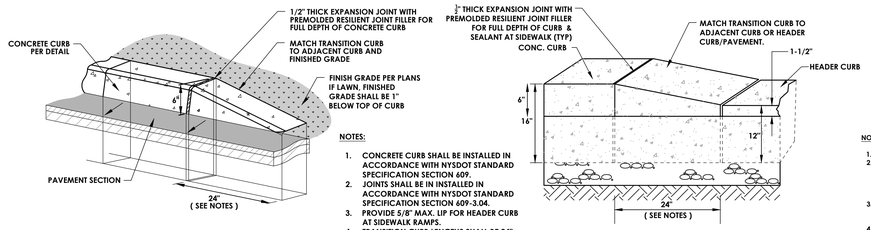
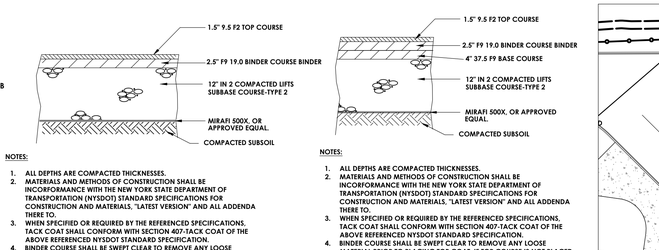


NOTES:

1. CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
2. JOINTS SHALL BE IN INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609-3.04.
3. PROVIDE 5/8" MAX. LIP FOR HEADER CURB AT SIDEWALK RAMPS.
4. TRANSITION CURB LENGTHS SHALL BE 24" OR AS INDICATED IN THE DRAWINGS.

1 TRANSITION CURB TO GRADE
N.T.S.



NOTES:

1. ALL DEPTHS ARE COMPACTED THICKNESSES.
2. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE INCONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, "LATEST VERSION" AND ALL ADDENDA THERE TO.
3. WHEN SPECIFIED OR REQUIRED BY THE REFERENCED SPECIFICATIONS, TACK COAT SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATION.
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.

STANDARD DUTY PAVEMENT

NOTES:

1. ALL DEPTHS ARE COMPACTED THICKNESSES.
2. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE INCONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, "LATEST VERSION" AND ALL ADDENDA THERE TO.
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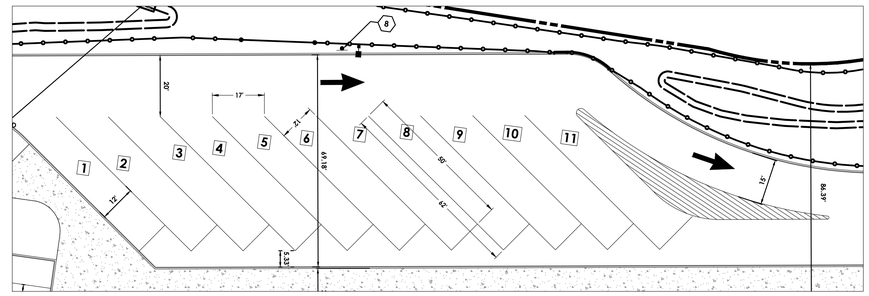
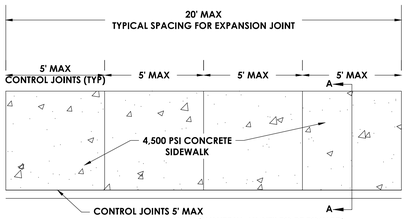
HEAVY DUTY PAVEMENT

2 PAVEMENT SECTION
N.T.S.

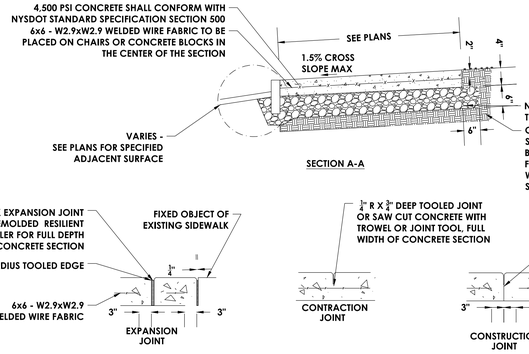


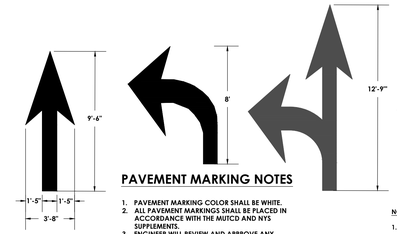
3 BUS LOOP PARKING PAVEMENT MARKING LAYOUT
SCALE: 1"=20'



NOTES:

1. SIDEWALK WIDTH SHALL BE MEASURED FROM THE BACK OF THE CURB 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 PLACED SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 203, LATEST EDITION
3. NYSDOT SUBBASE TYPE 2 SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION SECTION 304, LATEST EDITION.
4. CONCRETE SHALL NOT BE PLACE UNLESS THE AMBIENT AIR SURFACE TEMPERATURE IS ABOVE 40 DEGREES UNLESS DISCUSSED WITH OWNER AND ENGINEER.
5. SIDEWALKS SHALL HAVE A CROSS SLOPE OF 1.5% PER FOOT UNLESS OTHERWISE SPECIFIED ON THE PLANS.
6. ALL EXPOSED CONCRETE SURFACES SHALL BE BROOM FNISHED AND THE EDGES SHALL BE FINISHED WITH A 1.5" RADIUS EDGING TOOL. 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.

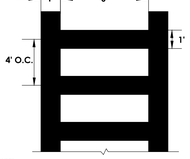




PAVEMENT MARKING NOTES

1. PAVEMENT MARKING COLOR SHALL BE WHITE.
2. ALL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE MUTCD AND NYS SUPPLEMENTS.
3. ENGINEER WILL REVIEW AND APPROVE ANY CHANGES TO THE PAVEMENT MARKING PLANS PRIOR TO FINAL INSTALLATION. CHANGES SHALL BE SUBMITTED PRIOR TO INSTALLATION.

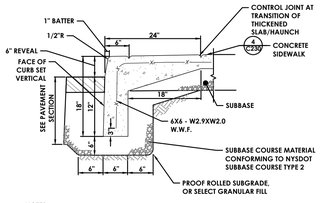
5 DIRECTIONAL ARROW PAVEMENT MARKING DETAIL
N.T.S.



NOTE:

1. CROSSWALK COLOR SHALL BE WHITE.

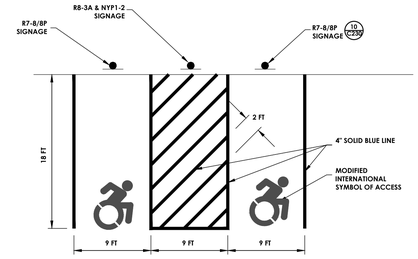
6 CROSSWALK DETAIL
N.T.S.



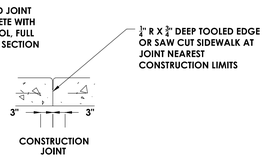
NOTES:

1. CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
2. SEE CONCRETE SIDEWALK DETAIL FOR ADDITIONAL DETAILS AND NOTES.

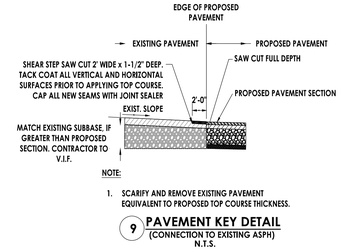
7 INTEGRAL CONCRETE CURB & SIDEWALK
N.T.S.



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



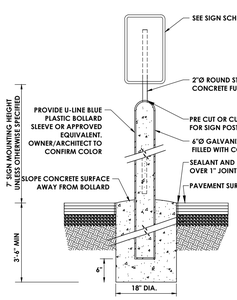
4 TYPICAL SIDEWALK DETAIL
N.T.S.



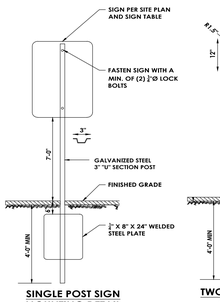
NOTE:

1. SCARIFY AND REMOVE EXISTING PAVEMENT EQUIVALENT TO PROPOSED TOP COURSE THICKNESS.

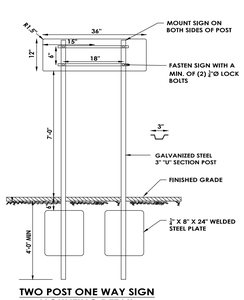
9 PAVEMENT KEY DETAIL
(CONNECTION TO EXISTING ASPH)
N.T.S.



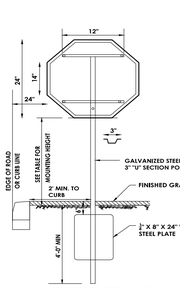
BOLLARD MOUNTED SIGN
N.T.S.



SINGLE POST SIGN MOUNTING DETAIL
(SIGN IN LANDSCAPE AREA OR SIDEWALK)
N.T.S.

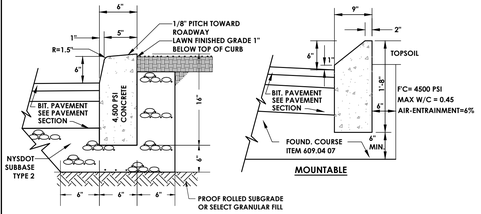


TWO POST ONE WAY SIGN MOUNTING DETAIL
(SIGN IN LANDSCAPE AREA OR SIDEWALK)
N.T.S.



SINGLE POST STOP SIGN MOUNTING DETAIL
(SIGN IN LANDSCAPE AREA OR SIDEWALK)
N.T.S.

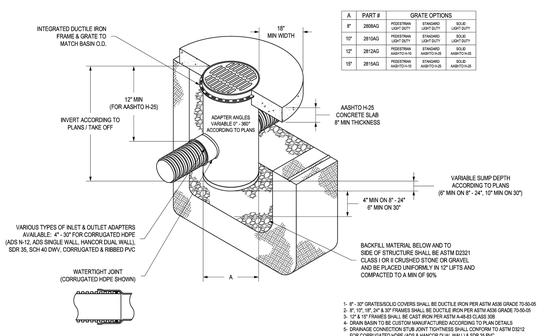
10 SIGN MOUNTING DETAIL
N.T.S.



NOTES:

1. CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
2. JOINTS SHALL BE IN INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609-3.04.

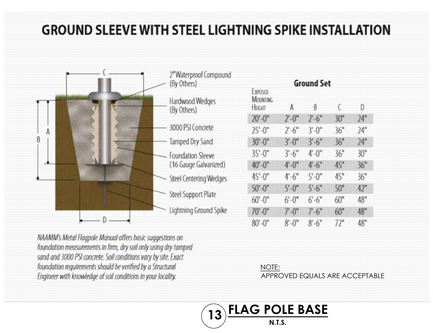
11 CONCRETE CURB DETAIL
N.T.S.



A	PART #	GRATE OPTIONS		
8"	2909AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10"	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12"	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18"	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20

1- 8"- 30" GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
2- 8", 10", 18", 24" & 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3- 12" & 15" FRAMES SHALL BE CAST IRON PER ASTM A-48-83 CLASS 30B
4- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
5- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
6- FOR COMPLETE DESIGN AND PRODUCT INFORMATION: **WWW.NYLOPLAST-US.COM**
7- TO ORDER CALL: **800-821-6710**

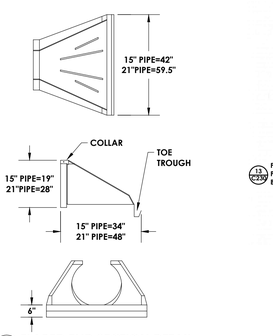
12 NYLOPLAST YARD DRAIN DETAIL
N.T.S.



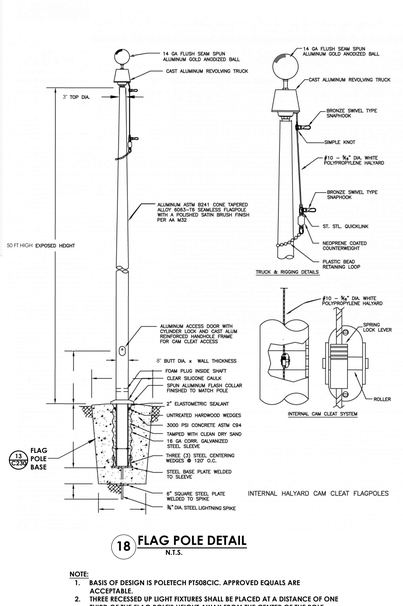
NAMM's Metal Flagpole Manual offers basic suggestions on foundation measurements in firm, dry soil only using dry tamped sand and 3000 PSI concrete. Soil conditions vary by site. Exact foundation requirements should be verified by a Structural Engineer with knowledge of soil conditions in your locality.

NOTE:
APPROVED EQUALS ARE ACCEPTABLE

13 FLAG POLE BASE
N.T.S.



17 FLARED END SECTION DETAIL
N.T.S.



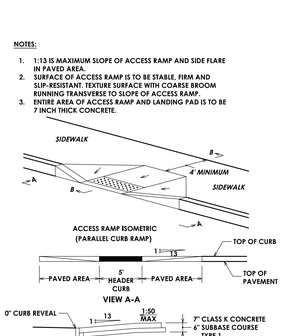
NOTE:

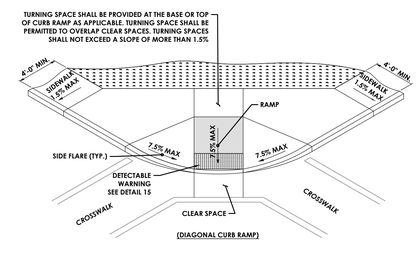
1. BASIS OF DESIGN IS POLETECH PTS08CIC. APPROVED EQUALS ARE ACCEPTABLE.
2. THREE RECESSED UP LIGHT FIXTURES SHALL BE PLACED AT A DISTANCE OF ONE THIRD OF THE FLAG POLE'S HEIGHT AWAY FROM THE CENTER OF THE POLE. LIGHTS SHALL BE SPACED 120 DEGREES APART.

18 FLAG POLE DETAIL
N.T.S.

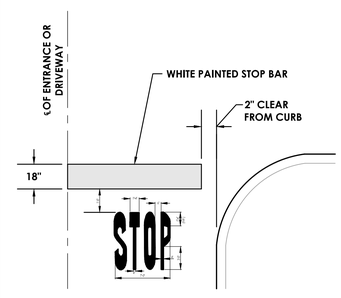
NOTES:

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.

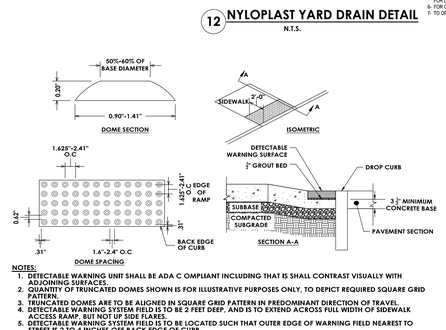




19 CURB RAMP DETAIL
N.T.S.



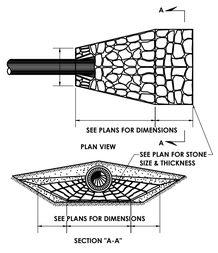
14 STOP BAR DETAIL
N.T.S.



NOTES:

1. DETECTABLE WARNING UNIT SHALL BE ADA C OMPLIANT INCLUDING THAT IS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES.
2. QUANTITY OF TRUNCATED DOMES SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY. TO DEPICT REQUIRED SQUARE GRID PATTERN.
3. TRUNCATED DOMES ARE TO BE ALIGNED IN SQUARE GRID PATTERN IN PREDOMINANT DIRECTION OF TRAVEL.
4. DETECTABLE WARNING SYSTEM FIELD IS TO BE 2 FEET DEEP, AND IS TO EXTEND ACROSS FULL WIDTH OF SIDEWALK ACCESS RAMP, BUT NOT UP SIDE FLARES.
5. DETECTABLE WARNING SYSTEM FIELD IS TO BE LOCATED SUCH THAT OUTER EDGE OF WARNING FIELD NEAREST TO STREET IS 2 TO 4 INCHES OFF BACK EDGE OF CURB.
6. COORDINATE COLOR WITH OWNER.

15 DETECTABLE WARNING SURFACE
N.T.S.



16 STONE RIP-RAP DETAIL
N.T.S.

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PASSERO engineering architecture
CSARCH
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Consultant

Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING
CTE NEWBURGH

STATE OF NEW YORK CHRISTOPHER J. LOOS 102593 LICENSED PROFESSIONAL ENGINEER

No.	DATE	DESCRIPTION

Drawn By:	MP
Checked By:	SK
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title

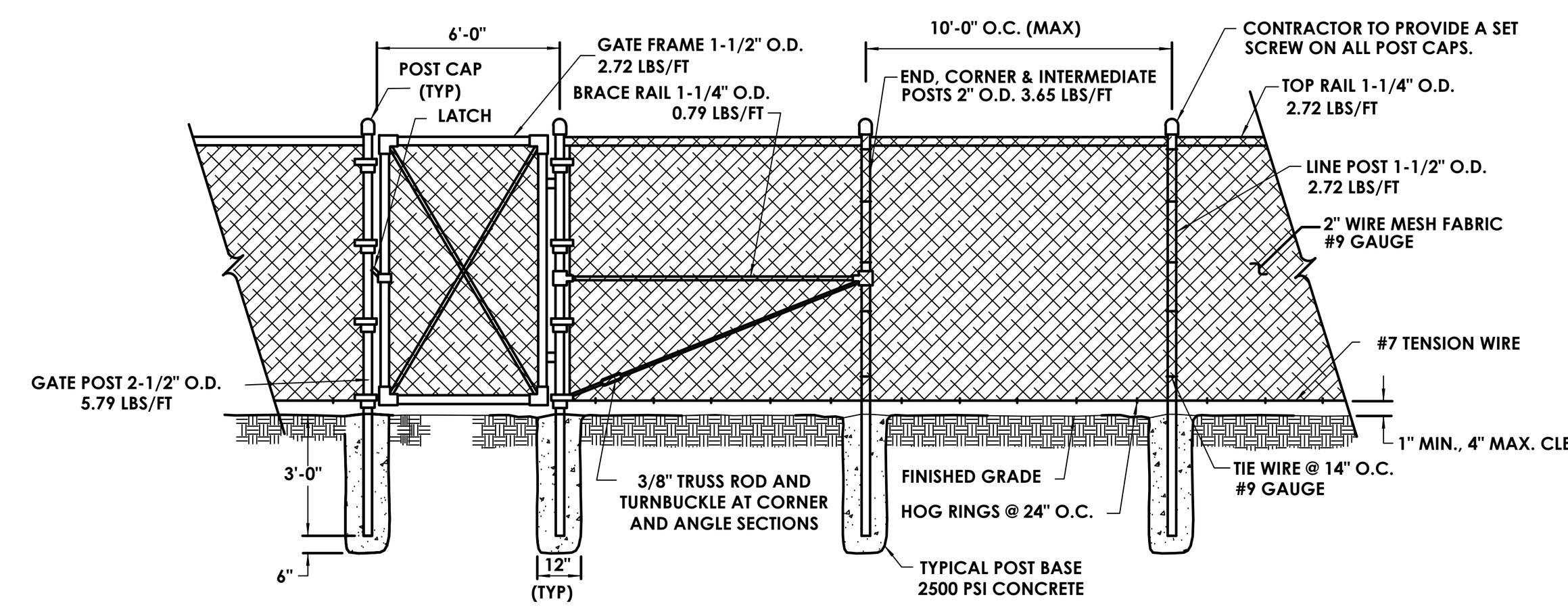
SITE DETAILS

Sheet No.

CTE C230

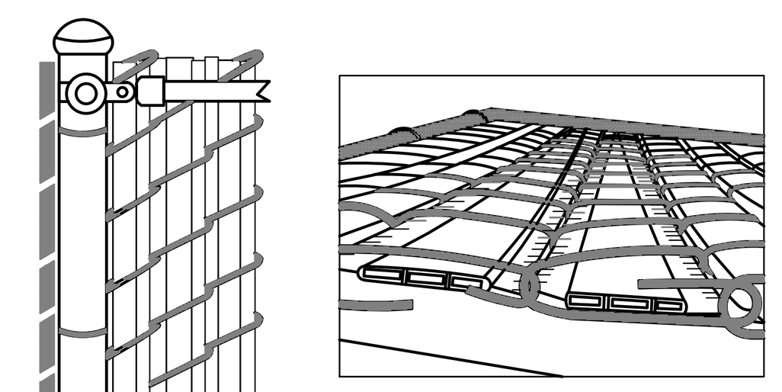
CONSTRUCTION DOCUMENTS

Y:\PROJECTS-NEW (2022)\2022347\0_2022347(0.0)003 - CTE BUILDING\01 CAD-BIM-MODELS (CIVIL)\C230 - DETAILS.DWG 4/10/2024 3:31 PM DJ Goodsill



1 CHAIN-LINK FENCE DETAIL
N.T.S.

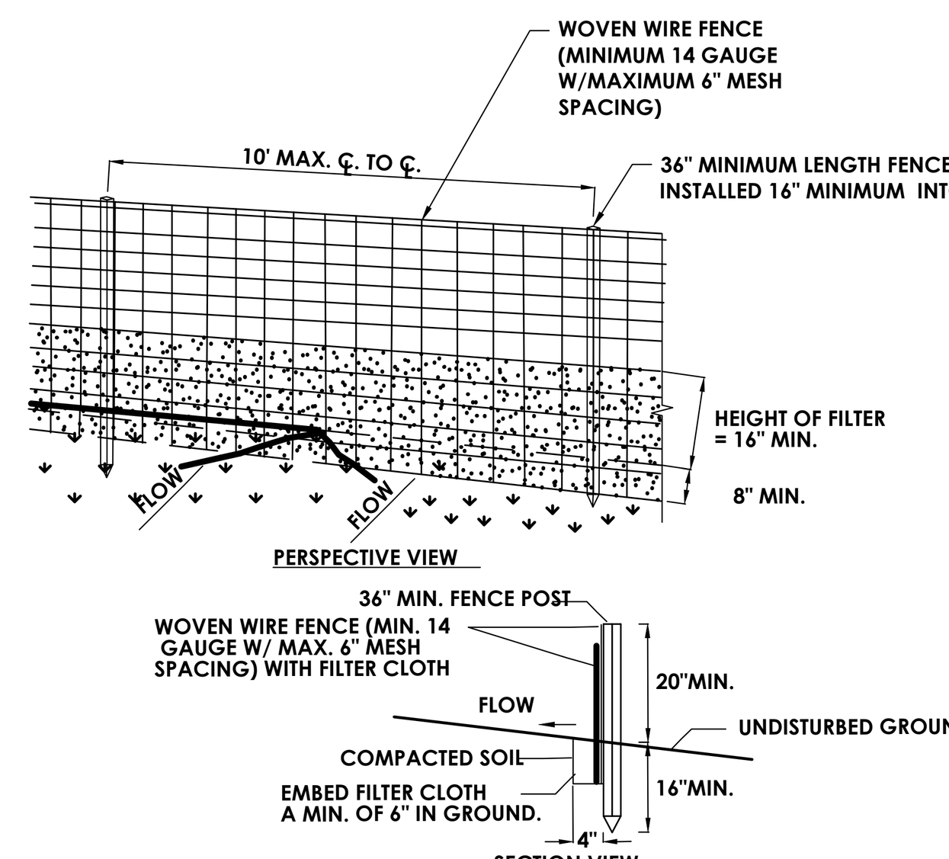
NOTES:
1) THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR GATES AND ADJACENT CHAIN LINK FENCE TO THE ENGINEER. NO FENCE OR GATES SHALL BE ERECTED PRIOR TO APPROVAL OF THE DETAILS.
2) THE FENCE AND ALL COMPONENTS SHALL BE CONSTRUCTED OF GALVANIZED STEEL.
3) PRIVACY SLATS SHALL BE BLACK.



TYPICAL CORNER POST DETAIL (FABRIC WRAPPED AT CORNER AND FASTINED WITH WIRE TIES)

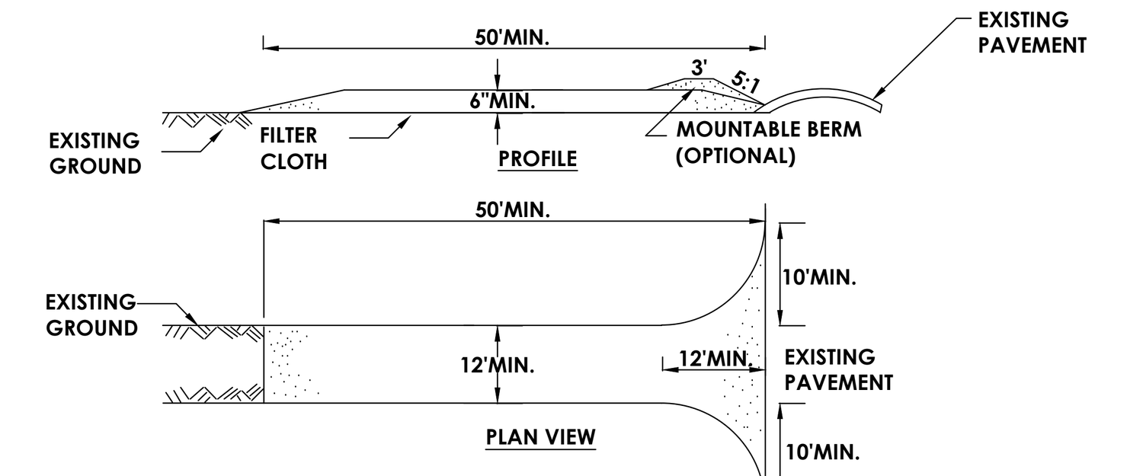
TYPICAL SLAT KNUCKLED SELVEGES DETAIL (TOP AND BOTTOM)

2 PRIVACY SLATS DETAIL
N.T.S.



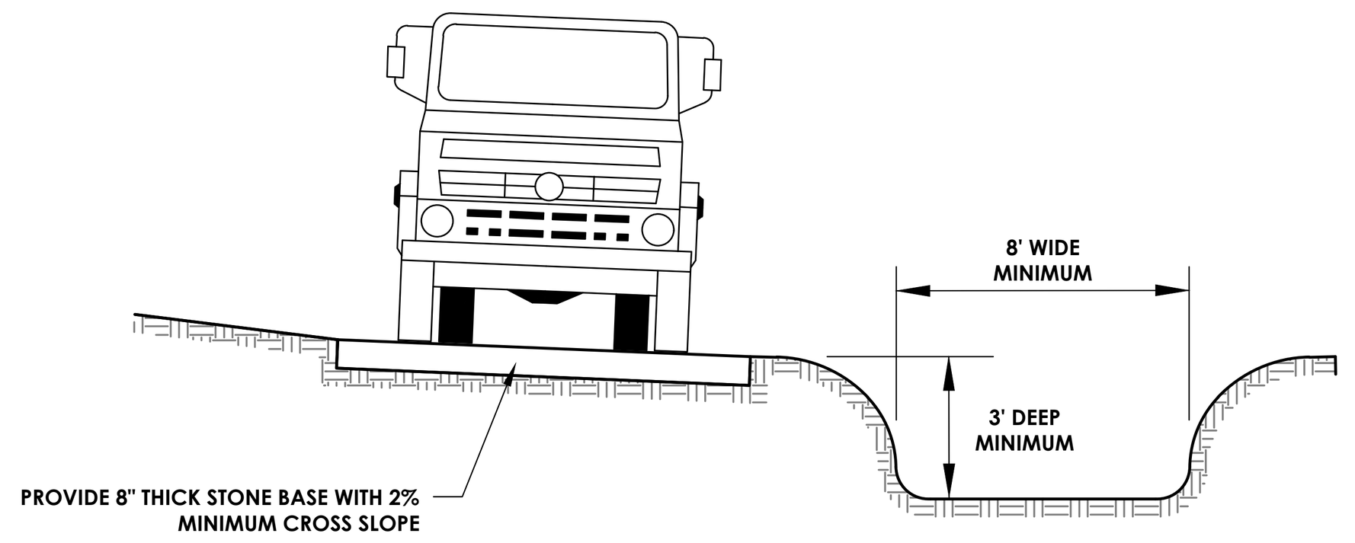
NOTES:
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 14 GAUGE, 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.

3 SILT FENCE DETAIL
N.T.S.

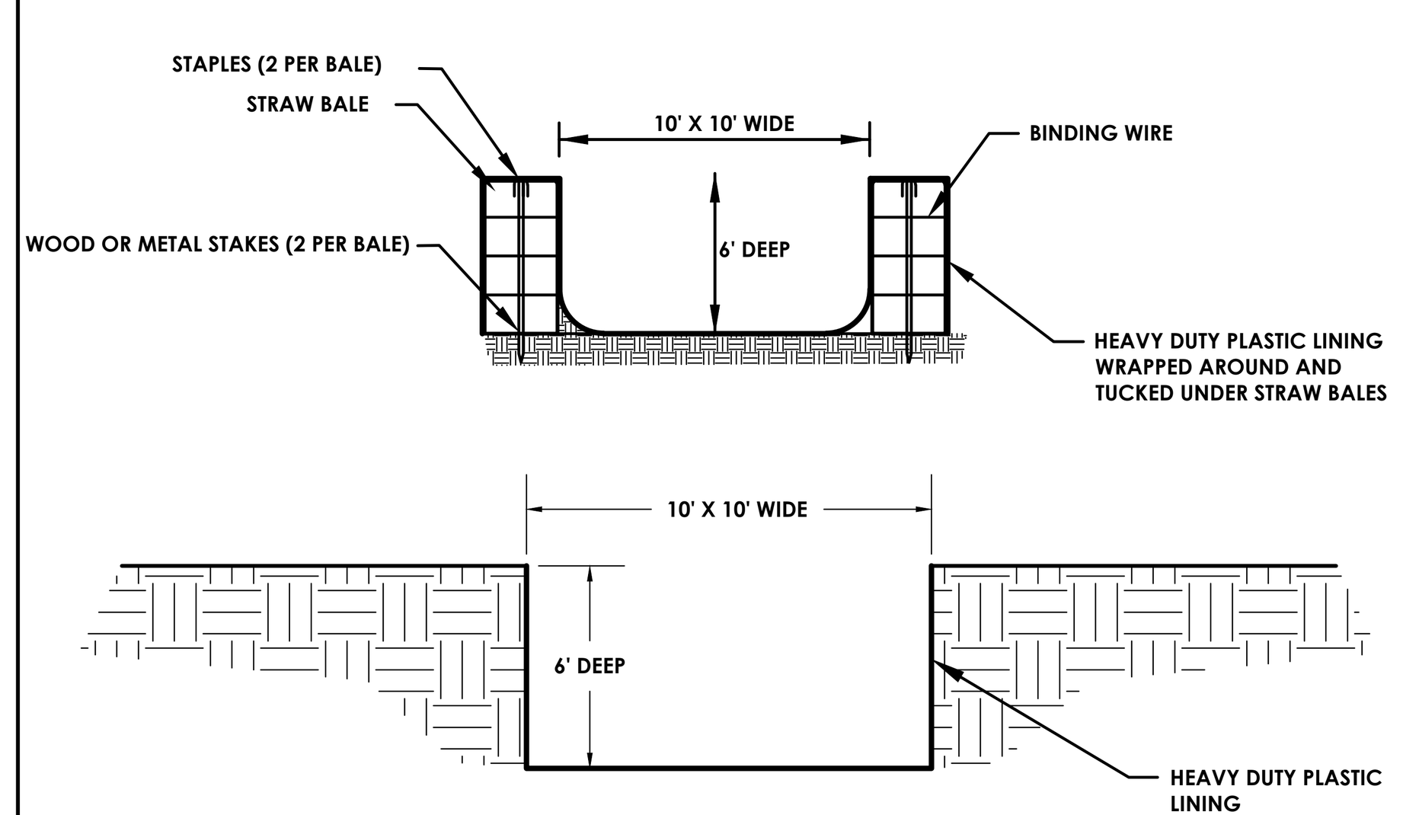


NOTES:
1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - FIFTY (50) FOOT MINIMUM.
3. THICKNESS - SIX (6) INCHES MINIMUM.
4. WIDTH - TWENTY-FOUR (24) FOOT BUT NOT LESS THAN THE FULL WIDTH OF THE ENTRANCE FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
5. 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.
6. 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.
7. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE COMPLETED AFTER EACH RAIN.

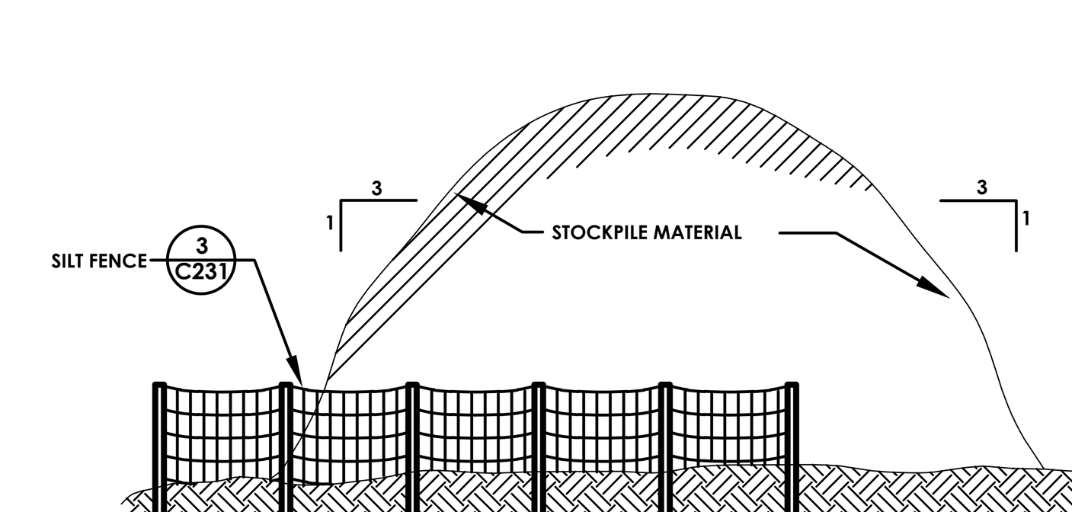
4 STABILIZED CONSTRUCTION ENTRANCE
N.T.S.



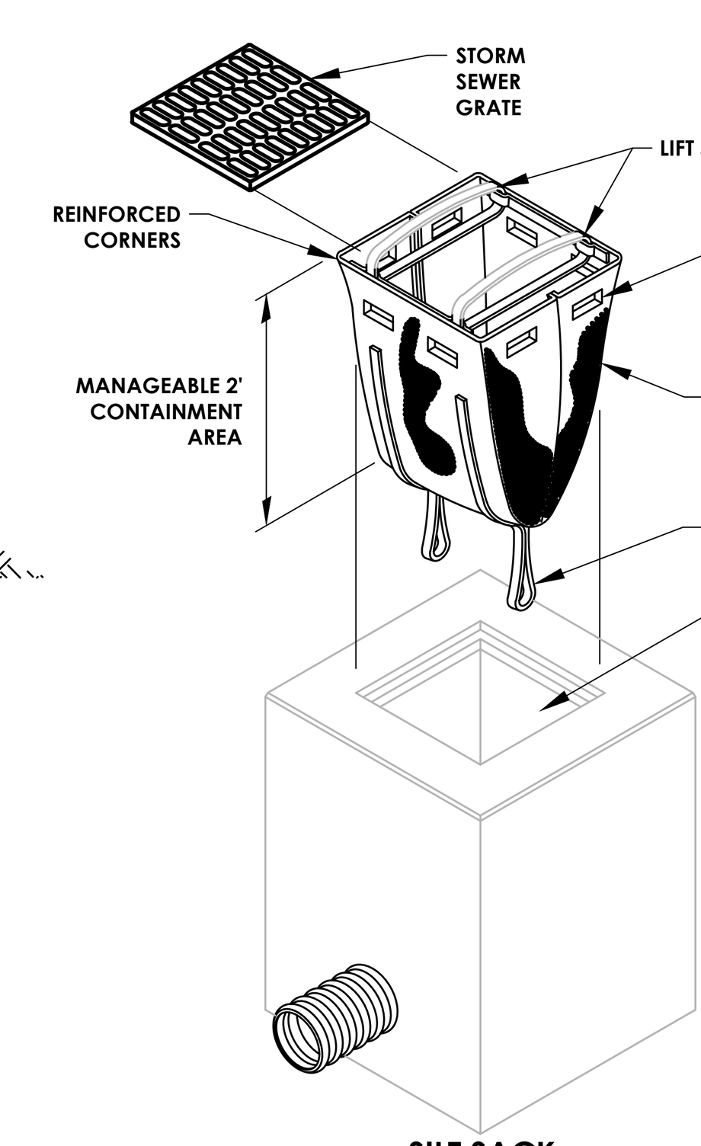
5 TRUCK WASHDOWN AREA
N.T.S.



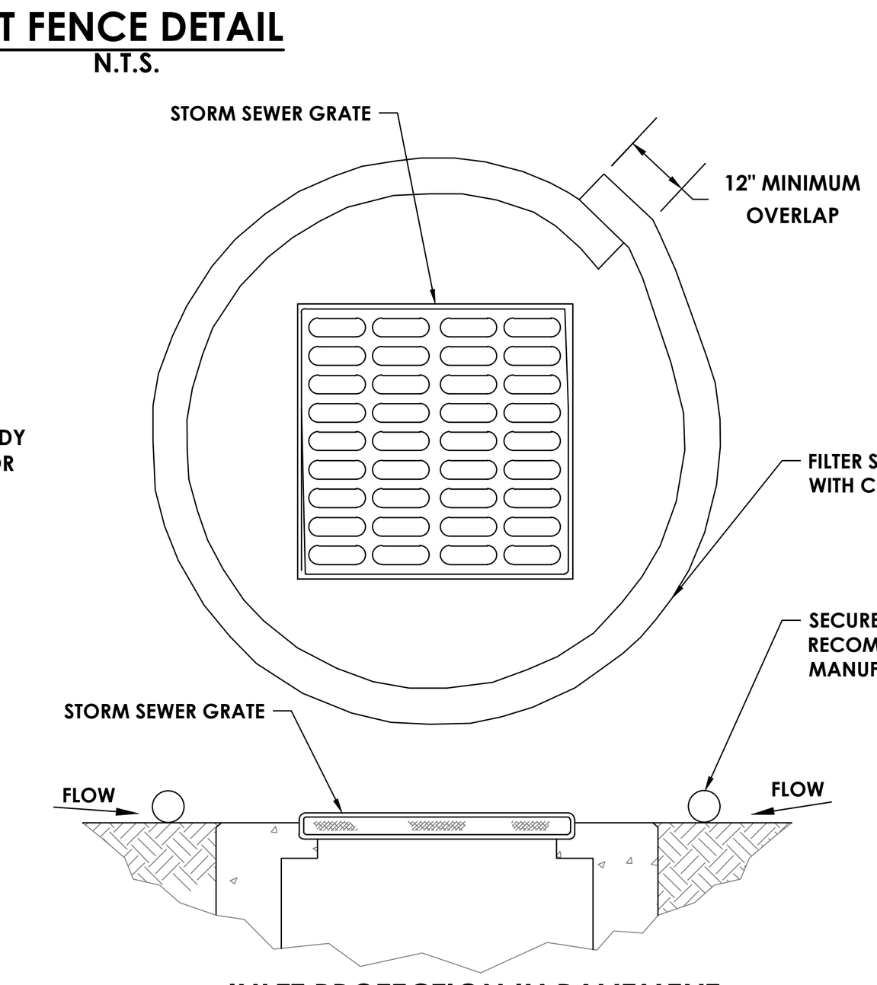
6 CONCRETE WASH OUT AREA
N.T.S.



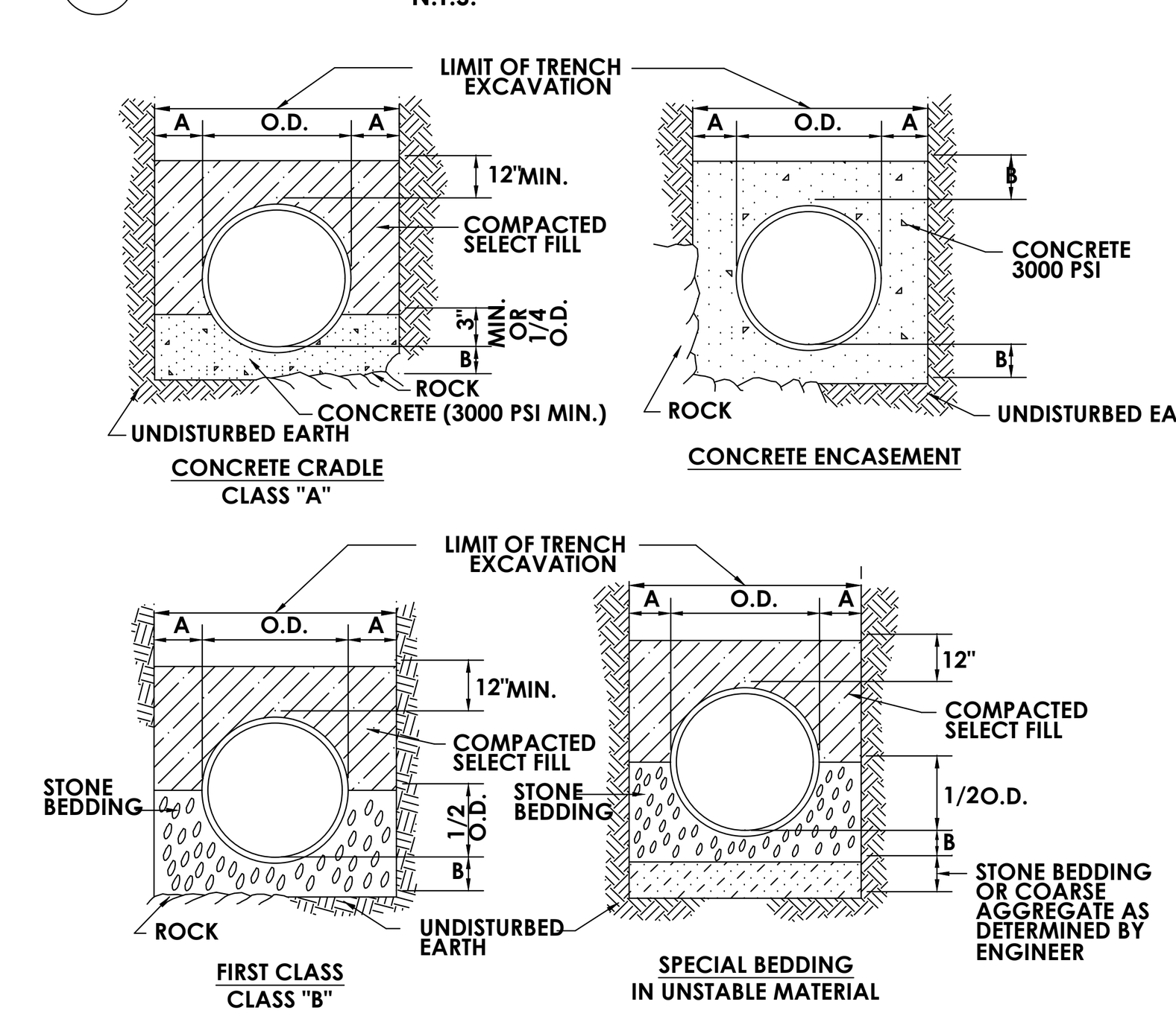
7 STOCKPILE AREA DETAIL
N.T.S.



SILT SACK



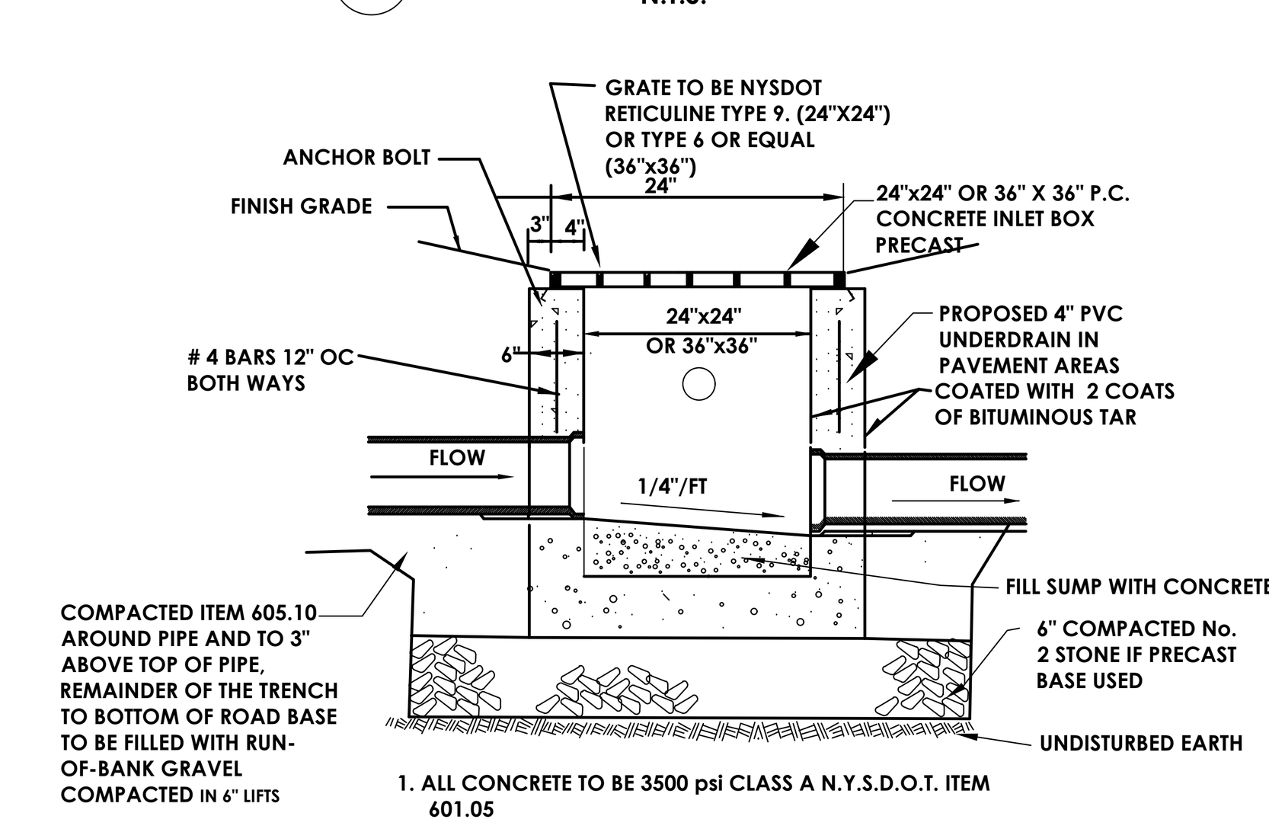
INLET PROTECTION IN PAVEMENT



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

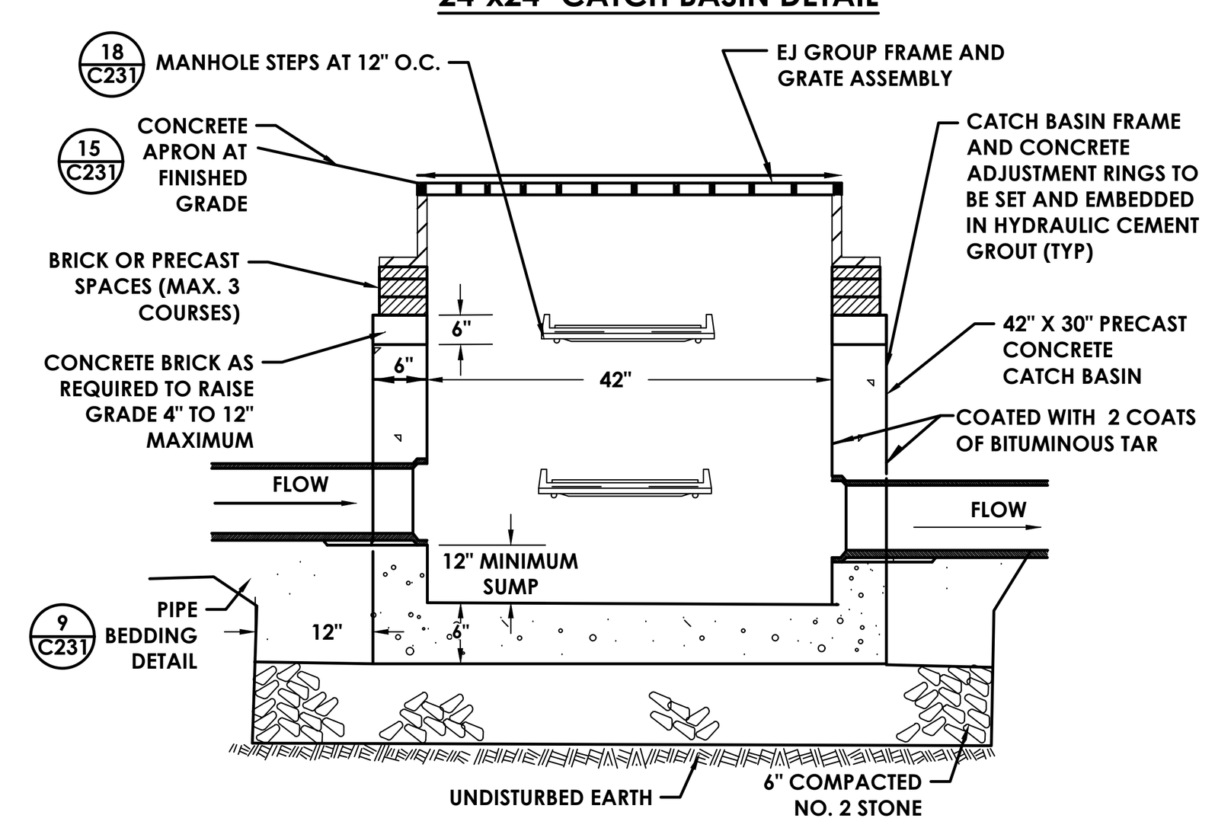
1. TRENCH BACKFILL SHALL BE AS REQUIRED BY THE HIGHWAY OWNER.
2. SELECT FILL SHALL BE SAND, GRAVEL, AND SIMILAR MATERIAL WHICH SHALL BE FREE FROM CLAY, LOAM, ORGANIC MATERIAL, DEBRIS, FROZEN MATERIAL AND SHALL CONTAIN ONLY SMALL AMOUNTS OF STONE, PEBBLES OR LUMPS OVER ONE INCH IN GREATEST DIMENSION BUT NONE OVER TWO INCHES IN GREATEST DIMENSION.
3. STONE BEDDING SHALL MEAN APPROVED IMPORTED AGGREGATE MEETING THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATION, JAN 2, 1990 EDITION, AS REVISED, SUBSECTION 703-0201 "CRUSHED STONE". PRIMARY SIZE 1 OR A MIXTURE OF PRIMARY SIZES 1 AND 2.
4. COARSE AGGREGATE SHALL MEAN APPROVED IMPORTED AGGREGATE MEETING THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATION, JAN 2, 1990 EDITION, AS REVISED, SUBSECTION 703-0201 "CRUSHED STONE". PRIMARY SIZE 3 AND/OR 4
5. THIS FIGURE APPLIES TO SANITARY MAINLINE AND LATERAL PIPE INSTALLATION AS WELL AS FORCEMAINS.

9 STORM SEWER BEDDING DETAILS
N.T.S.



1. ALL CONCRETE TO BE 3500 psi CLASS A N.Y.S.D.O.T. ITEM 601.05
2. ALL CONCRETE IN CONTACT WITH ASPHALT PAVEMENT SHALL BE COVERED WITH A TACK COAT IN ACCORDANCE WITH N.Y.S.D.O.T. SECTION 407.

24"x24" CATCH BASIN DETAIL

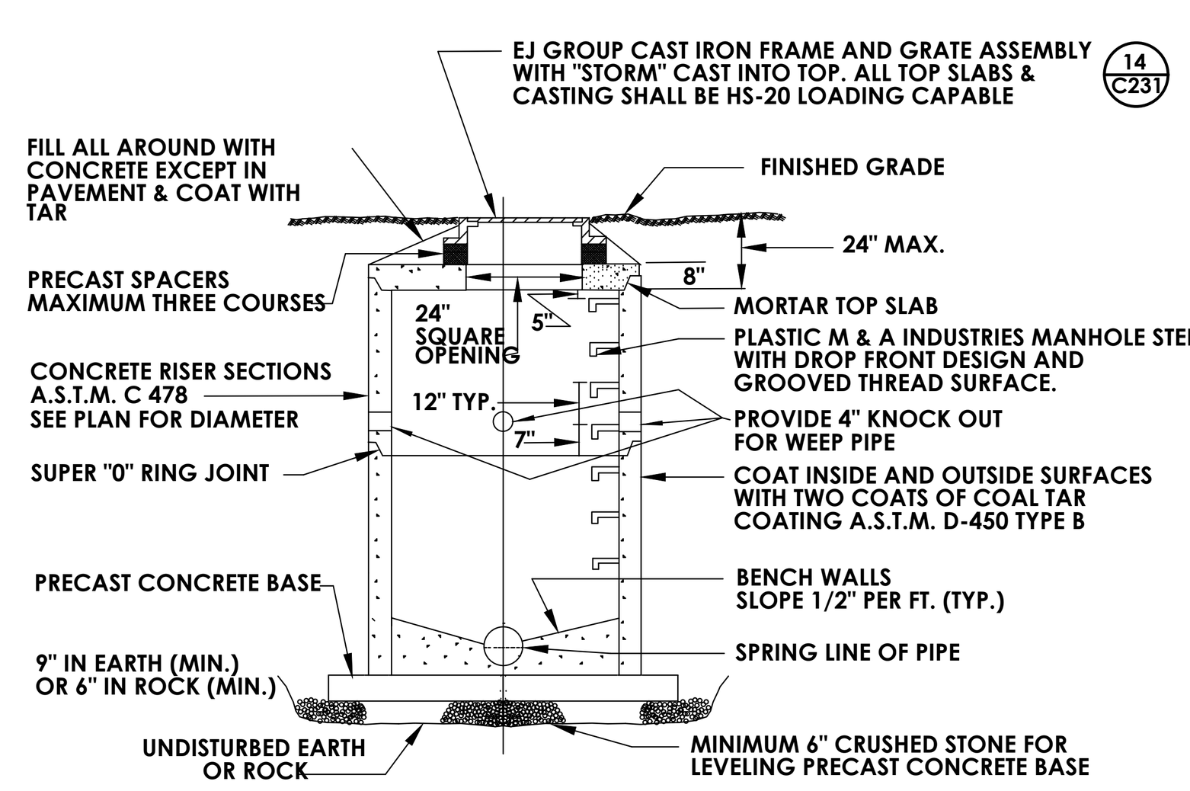


NOTES:

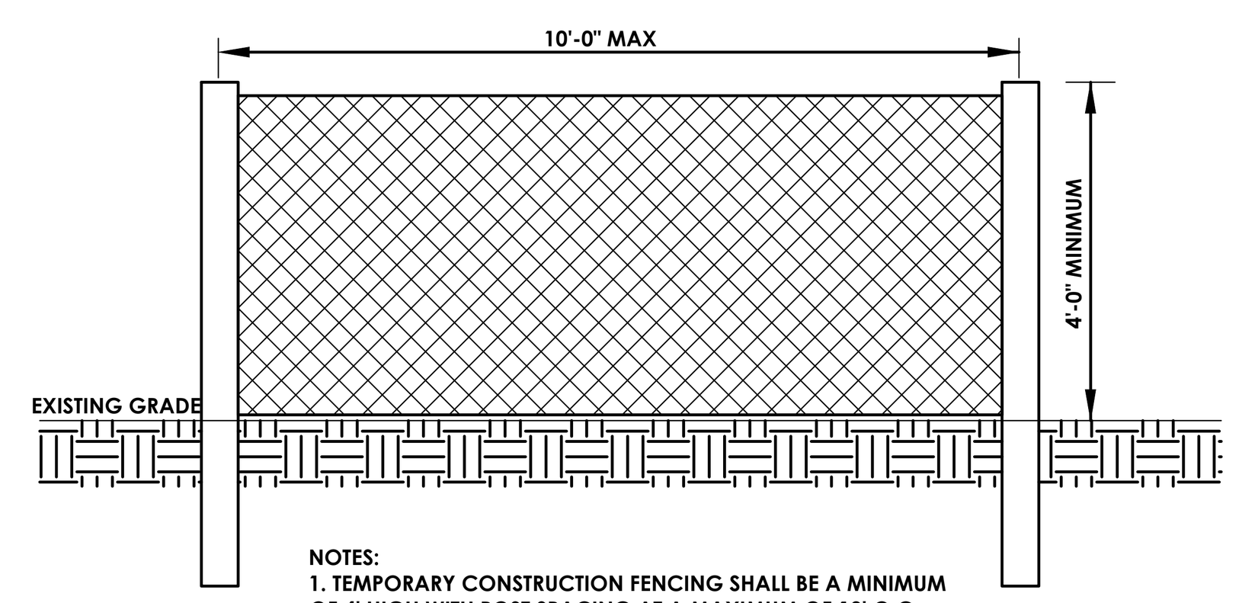
30"x42" CATCH BASIN DETAIL

1. ALL CONCRETE IN CONTACT WITH ASPHALT PAVEMENT SHALL BE COVERED WITH A TACK COAT IN ACCORDANCE WITH N.Y.S.D.O.T. SECTION 407.
2. CATCH BASINS IN PEDESTRIAN WALKWAYS AND BICYCLE AREAS SHALL HAVE ADA COMPLIANT GRATES.
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.

10 STANDARD CATCH BASIN DETAIL
N.T.S.



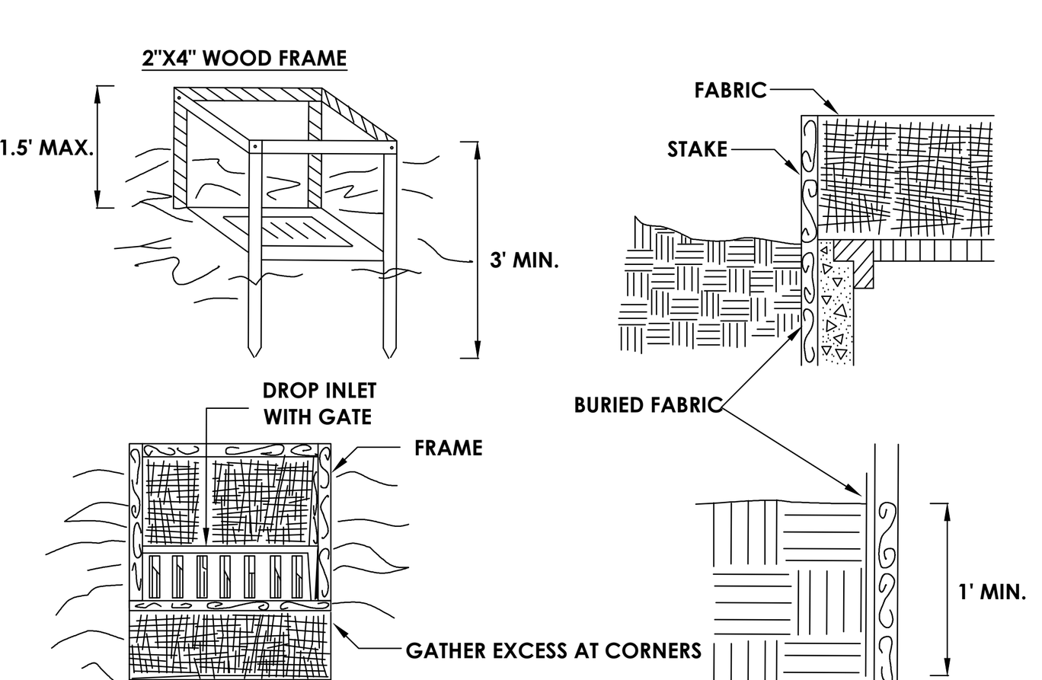
11 STANDARD STORM MANHOLE DETAIL
N.T.S.



NOTES:
1. TEMPORARY CONSTRUCTION FENCING SHALL BE A MINIMUM OF 4' HIGH WITH POST SPACING AT A MAXIMUM OF 10' O.C.

2. FENCING SHALL NOT SAG WHEN INSTALLED. MATERIAL SHALL BE HIGHLY VISIBLE.

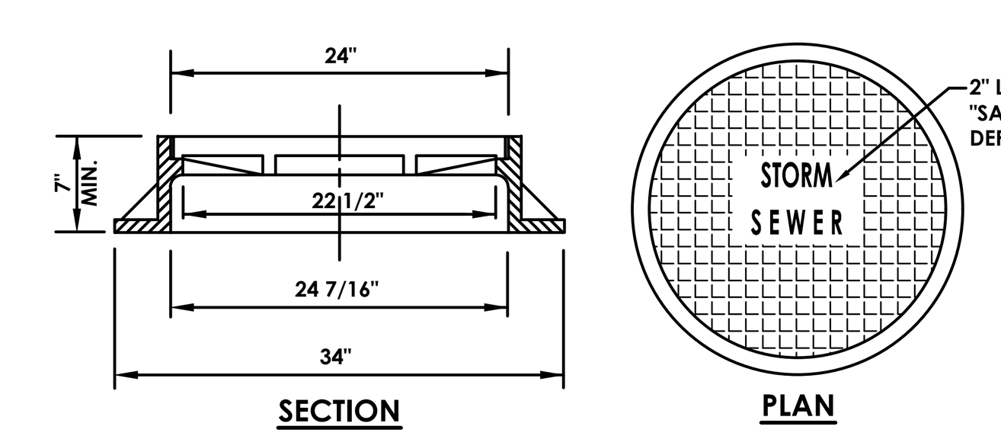
12 TEMPORARY CONSTRUCTION FENCING DETAIL
N.T.S.



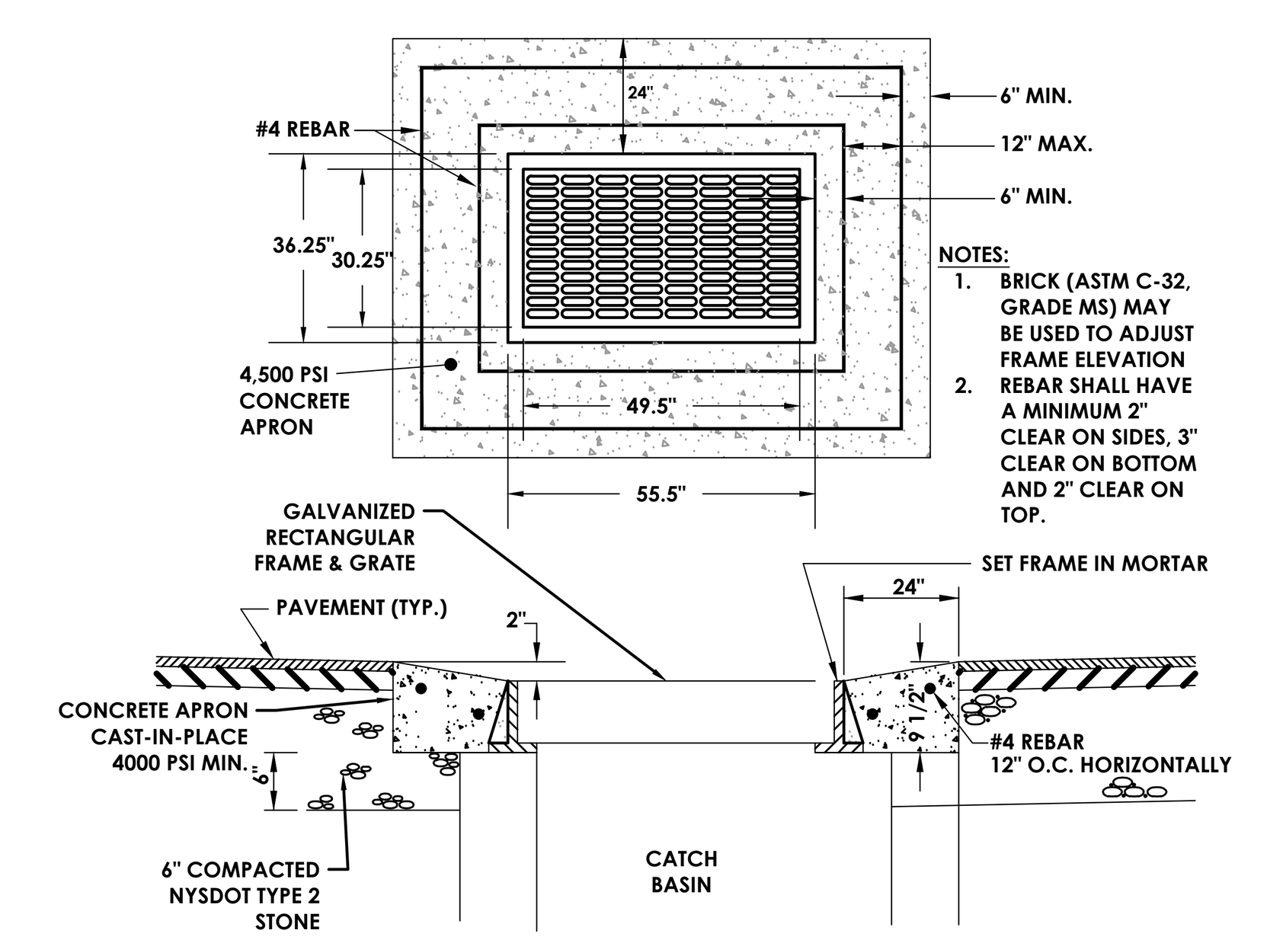
NOTES:
1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY SHALL BE OVERLAPPED WITH THE NEXT STAKE.
3. STAKE MATERIALS SHALL BE STANDARD 2" x 4" WOOD, METAL WITH A MINIMUM LENGTH OF 3 FEET OR APPROVED EQUIVALENT.
4. STAKES SHALL BE SPACED EVENLY AROUND INLET 3 FEET APART AND EMBEDDED A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET SHALL 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. MAXIMUM DRAINAGE AREA TO BE DIVERTED TO THIS TEMPORARY MEASURE: 1 ACRE

FILTER FABRIC DROP INLET PROTECTION

13 INLET PROTECTION DETAIL
N.T.S.

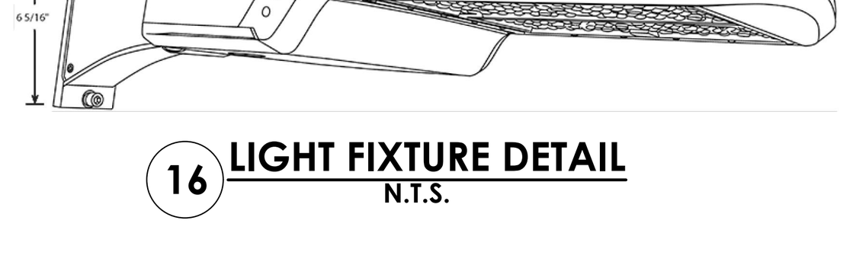


14 MANHOLE FRAME & COVER
N.T.S.

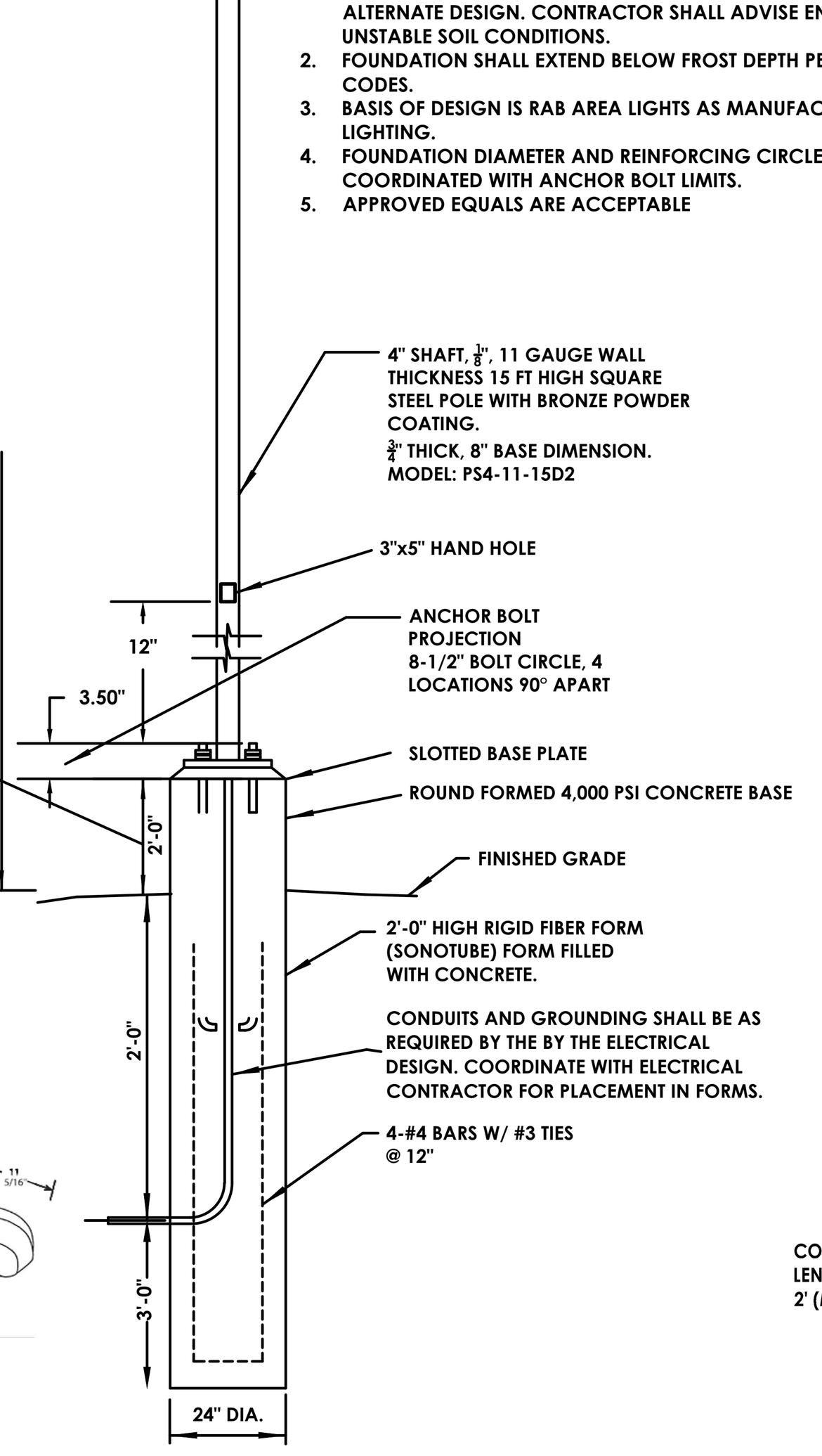


NOTES:
1. BRICK (ASTM C-32, GRADE MS) MAY BE USED TO ADJUST FRAME ELEVATION
2. REBAR SHALL HAVE A MINIMUM 2" CLEAR ON SIDES, 3" CLEAR ON BOTTOM AND 2" CLEAR ON TOP.

15 CONCRETE APRON FOR CATCH BASINS
N.T.S.

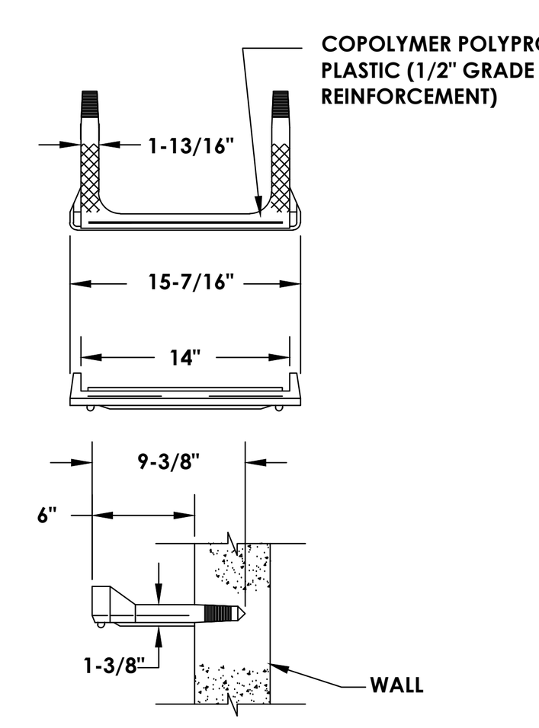


16 LIGHT FIXTURE DETAIL
N.T.S.

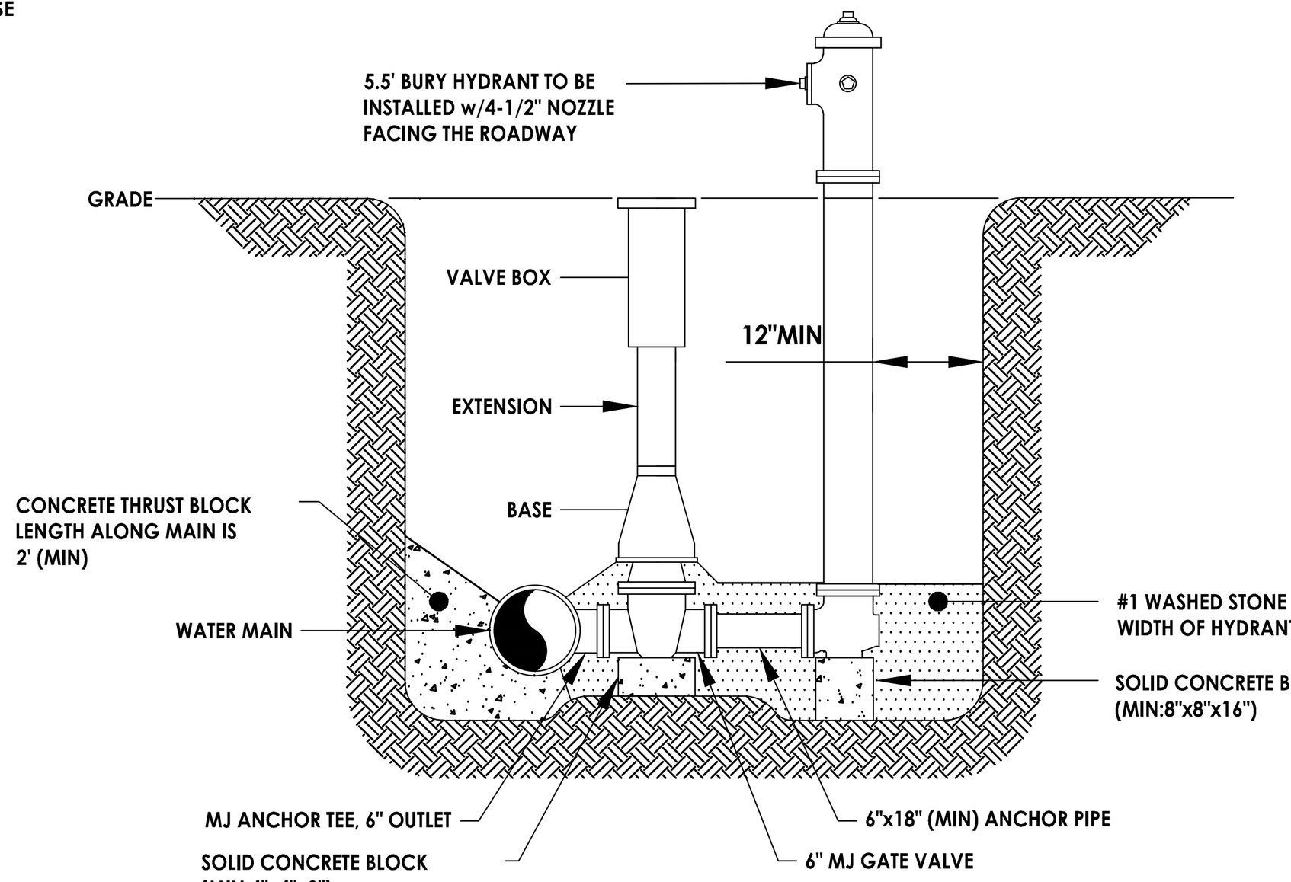


NOTES:
1. FOUNDATION SHOWN IS A TYPICAL DESIGN. WIND LOADS OF MORE THAN 90 MPH AND UNSTABLE SOIL MAY REQUIRE AN ALTERNATE DESIGN. CONTRACTOR SHALL ADVISE ENGINEER OF UNSTABLE SOIL CONDITIONS.
2. FOUNDATION SHALL EXTEND BELOW FROST DEPTH PER LOCAL CODES.
3. BASIS OF DESIGN IS RAB AREA LIGHTS AS MANUFACTURED BY RAB LIGHTING.
4. FOUNDATION DIAMETER AND REINFORCING CIRCLE SHALL BE COORDINATED WITH ANCHOR BOLT LIMITS.
5. APPROVED EQUALS ARE ACCEPTABLE

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

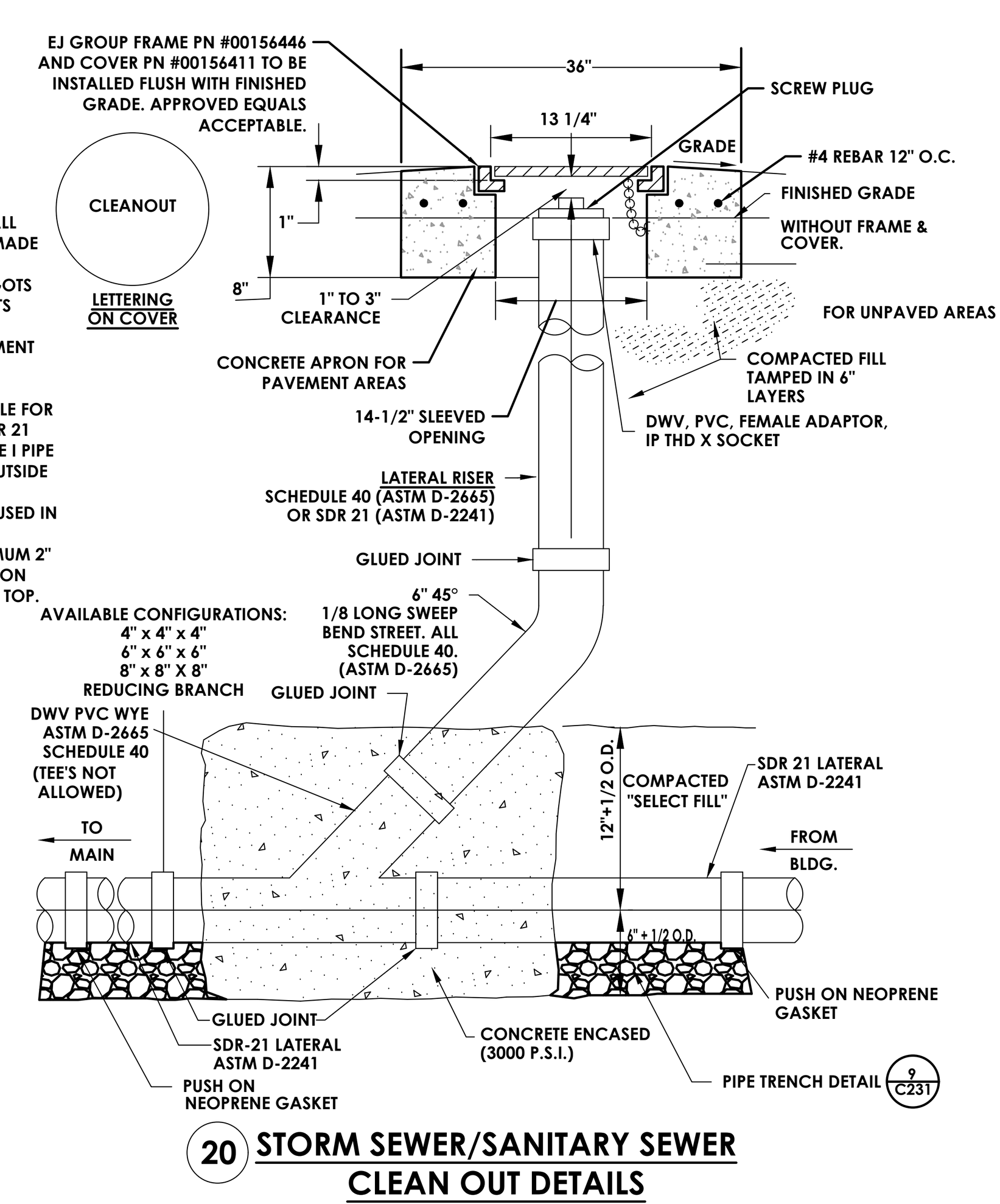


18 MANHOLE STEPS
N.T.S.

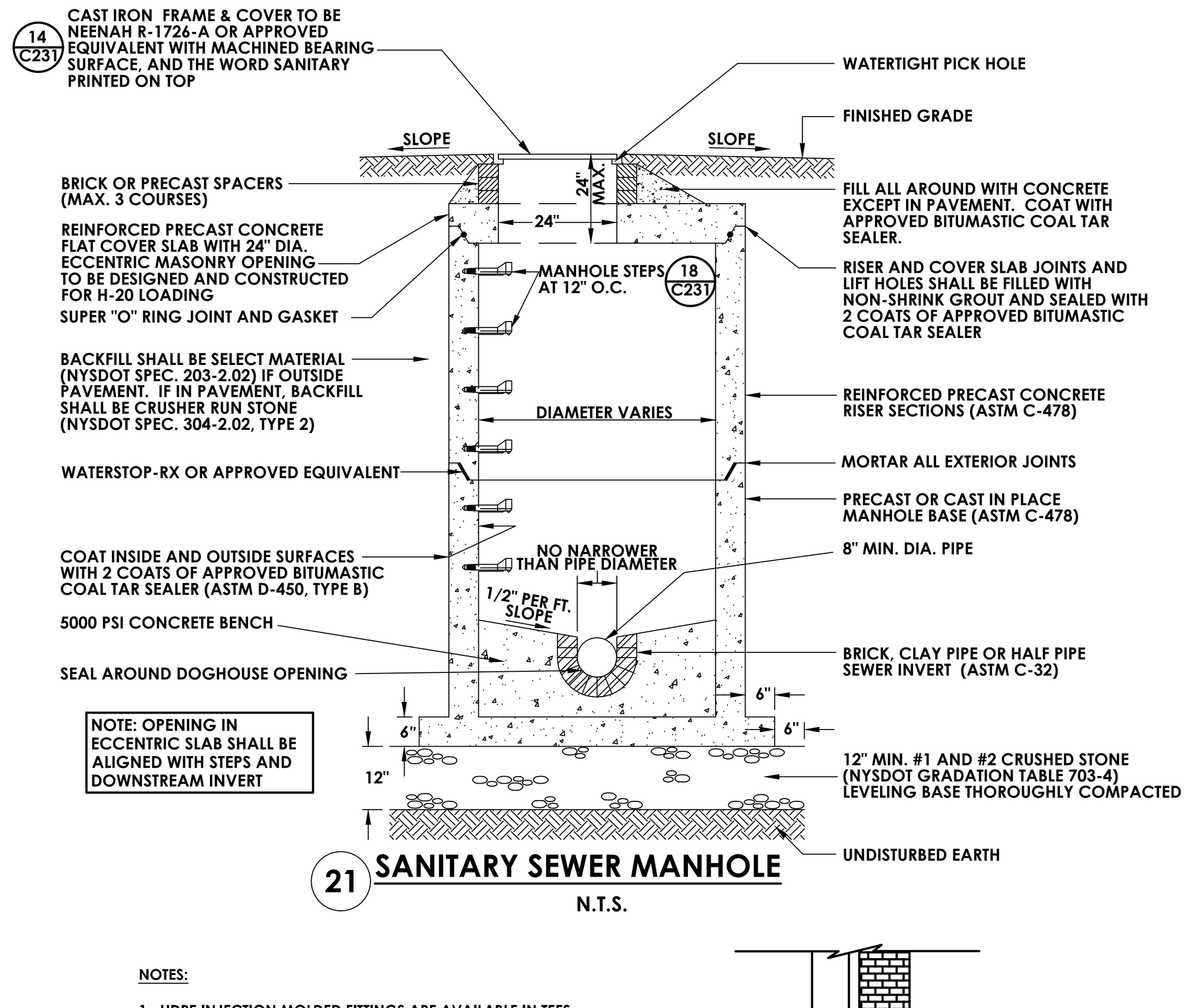


19 PERPENDICULAR HYDRANT ASSEMBLY
N.T.S.

NOTES:
1. IT IS RECOMMENDED THAT ALL SOLVENT WELD JOINTS BE MADE AS FOLLOWS:
A. CLEAN DRY HUBS & SPIGOTS
B. PRIMER APPLIED TO PARTS BEING CONNECTED.
C. PVC SOLVENT WELD CEMENT APPLIED DIRECTLY OVER PRIMER
D. PVC TYPE I IS COMPATIBLE FOR SOLVENT WELING TO SDR 21 OR ANY OTHER PCV TYPE I PIPE MADE TO "STEEL PIPE" OUTSIDE DIMENSIONS
2. FRAME AND COVER TO BE USED IN PAVED AREAS ONLY.
3. REBAR SHALL HAVE A MINIMUM 2" CLEAR ON SIDES, 3" CLEAR ON BOTTOM AND 2" CLEAR ON TOP.

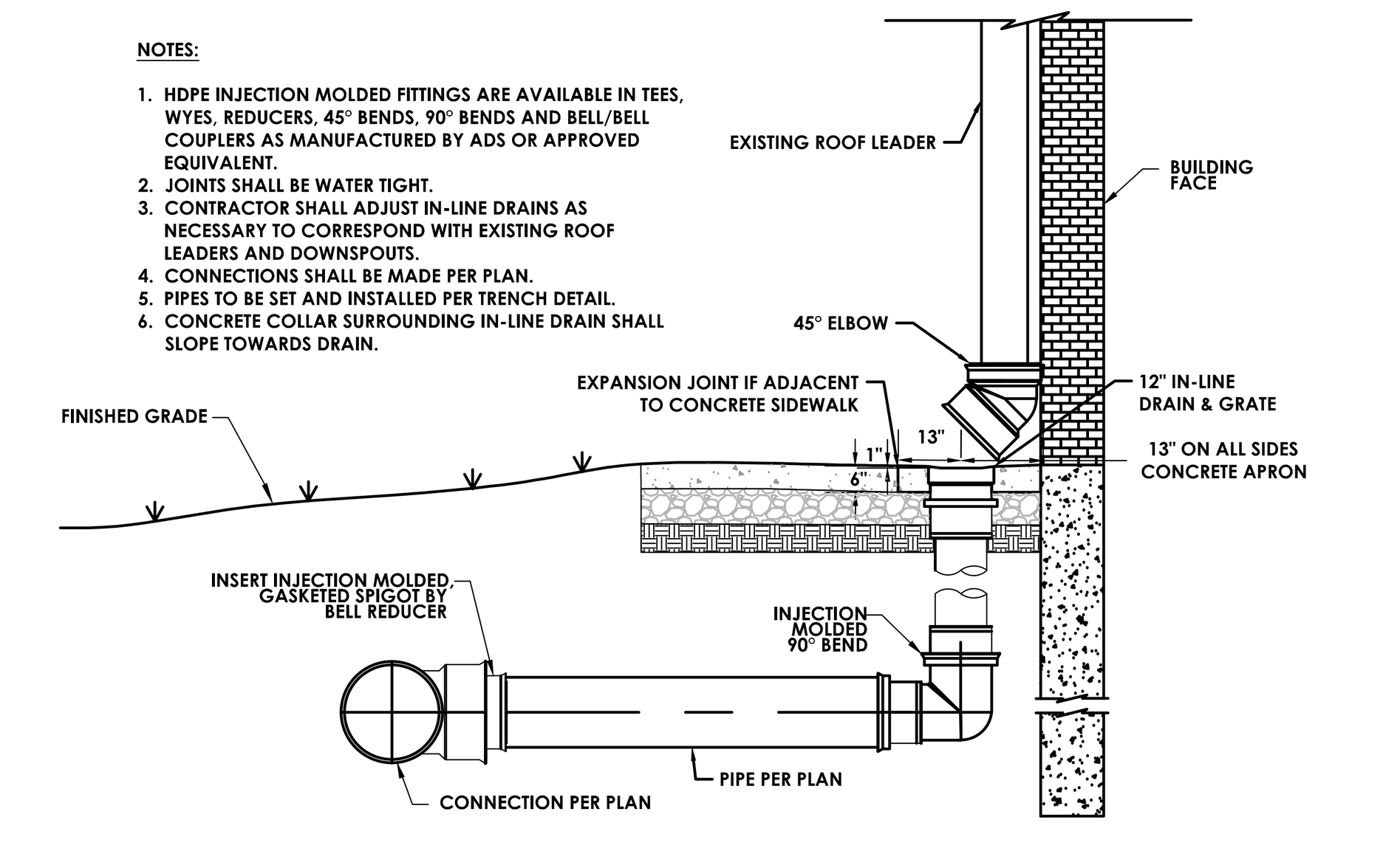


20 STORM SEWER/SANITARY SEWER CLEAN OUT DETAILS
N.T.S.

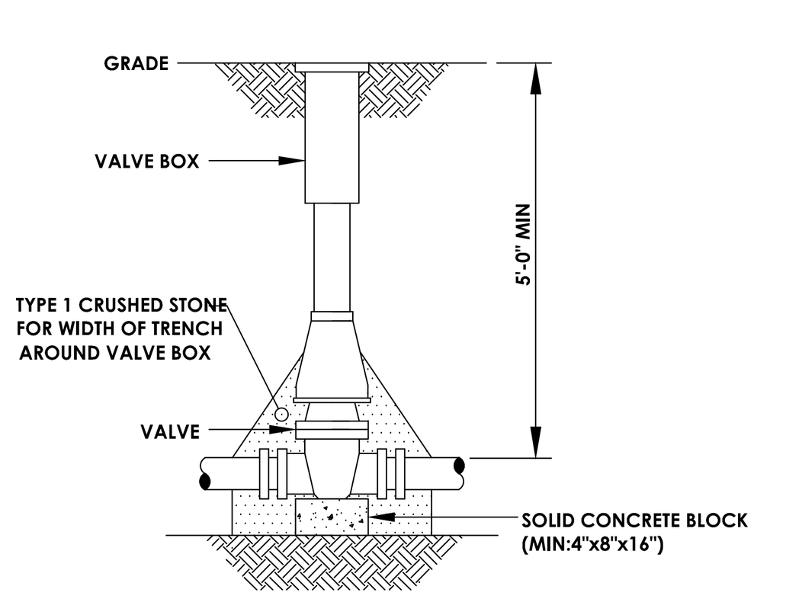


21 SANITARY SEWER MANHOLE
N.T.S.

NOTES:
1. HDPE INJECTION MOLDED FITTINGS ARE AVAILABLE IN TEES, WYES, REDUCERS, 45° BENDS, 90° BENDS AND BELL/BELL COUPLERS AS MANUFACTURED BY ADS OR APPROVED EQUIVALENT.
2. JOINTS SHALL BE WATER TIGHT.
3. CONTRACTOR SHALL ADJUST IN-LINE DRAINS AS NECESSARY TO CORRESPOND WITH EXISTING ROOF LEADERS AND DOWNSPOUTS.
4. CONNECTIONS SHALL BE MADE PER PLAN.
5. PIPES TO BE SET AND INSTALLED PER TRENCH DETAIL.
6. CONCRETE COLLAR SURROUNDING IN-LINE DRAIN SHALL SLOPE TOWARDS DRAIN.

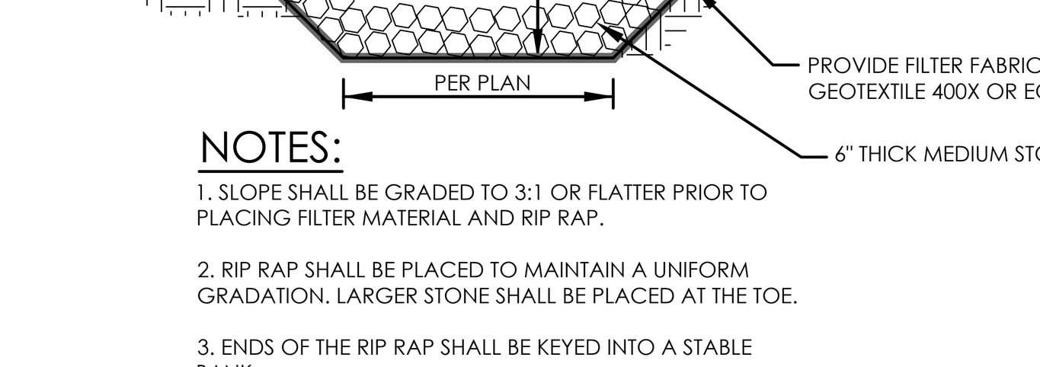


22 ROOF LEADER & 12" IN-LINE DRAIN
N.T.S.



NOTE:
1. VALVE BOX SHALL BE CENTERED ON VALVE AND SET ON COMPACTED BACKFILL.
2. VALVE SHALL NOT SUPPORT VALVE BOX.
3. ALL BODY AND BONNET BOLTS SHALL BE STAINLESS STEEL AND COATED WITH THERMO SETTING EPOXY
4. ALL VALVES SHALL BE OPEN LEFT EXCEPT VALVES 12" AND SMALLER
5. VALVES SHALL OPEN COUNTER CLOCKWISE W/ 2" SQUARE OPERATING NUTS
6. VALVES SHALL BE TESTED TO A PRESSURE OF TWO OR MORE TIMES THE WORKING PRESSURE
7. ALL VALVES SHALL HAVE DUAL "O" RING SEALS, INSIDE SCREW, RESILIENT WEDGE SEATS

23 WATER VALVE DETAIL
N.T.S.



NOTES:
1. SLOPE SHALL BE GRADED TO 3:1 OR FLATTER PRIOR TO PLACING FILTER MATERIAL AND RIP RAP.

2. RIP RAP SHALL BE PLACED TO MAINTAIN A UNIFORM GRADATION. LARGER STONE SHALL BE PLACED AT THE TOE.

3. ENDS OF THE RIP RAP SHALL BE KEYED INTO A STABLE BANK.

24 STABILIZED OVERFLOW
N.T.S.

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PASSERO engineering architecture
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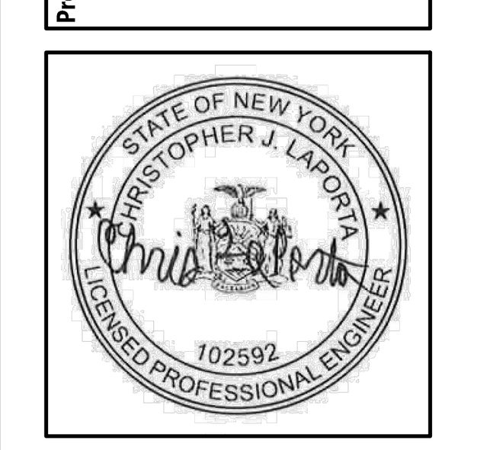
Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING
CTE NEWBURGH



#	DATE	DESCRIPTION

Drawn By:	MP
Checked By:	SK
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title

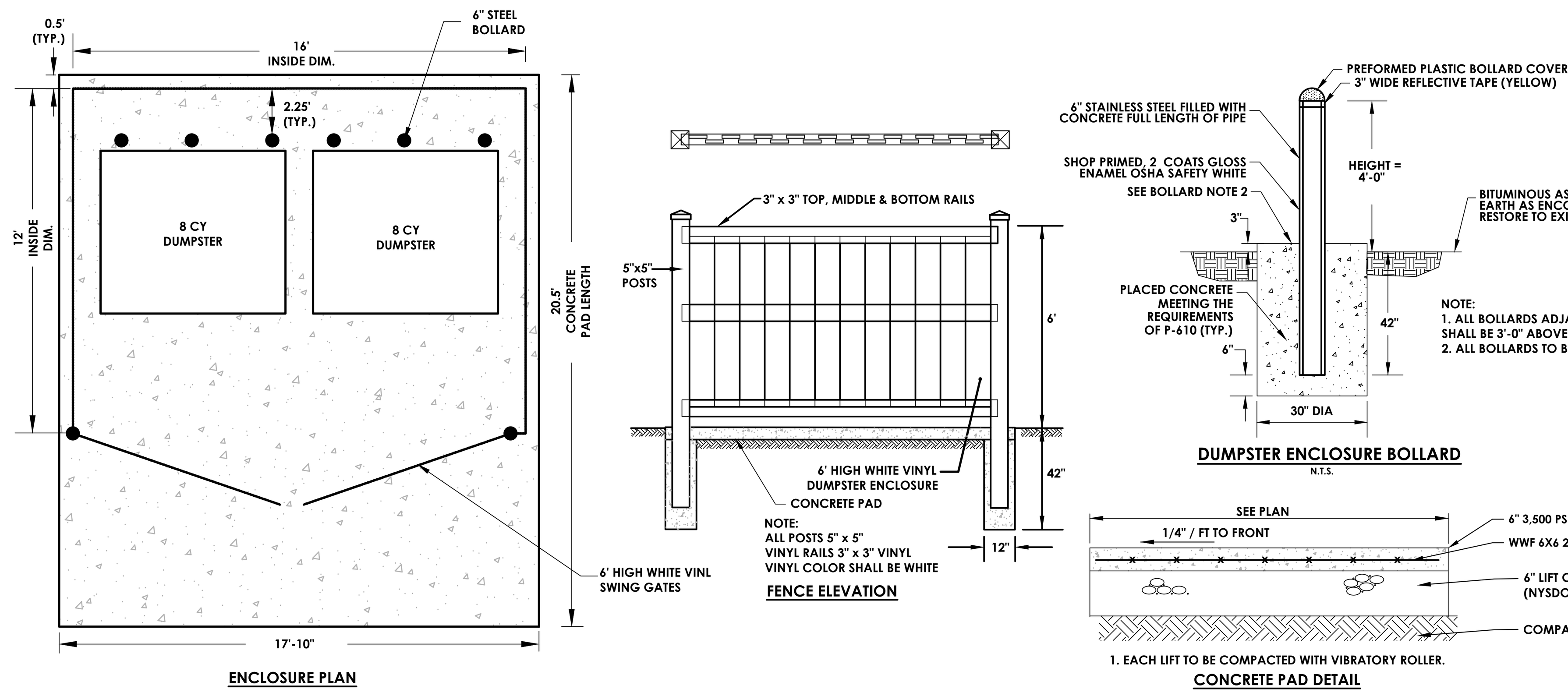
SITE DETAILS

Sheet No.

CTE
C231

CONSTRUCTION DOCUMENTS

Y:\PROJECTS-NEW\2022\20223470\20223470.0003 - CTE BUILDING\01_CAD-BIM-MODELS\CIVIL\C230 - DETAILS.DWG 4/10/2024 3:32 PM DJ Goodall



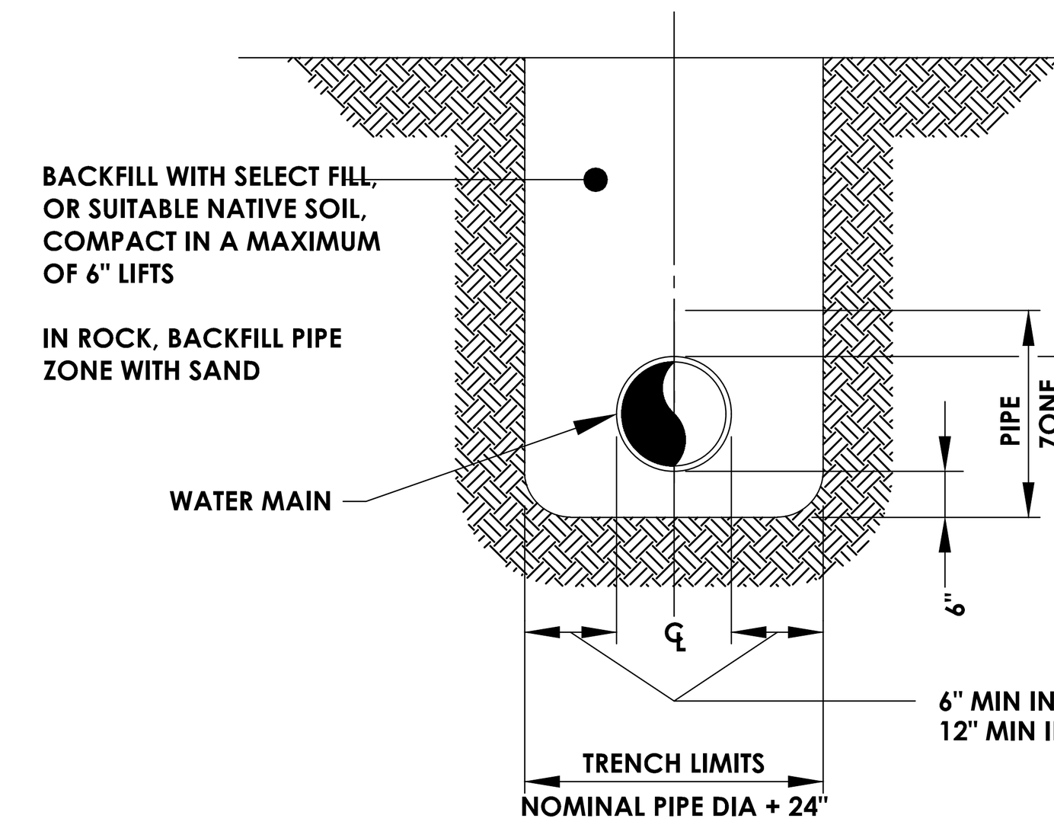
NOTE:
ALL POSTS 5" x 5"
VINYL RAILS 3" x 3" VINYL
VINYL COLOR SHALL BE WHITE

1. EACH LIFT TO BE COMPACTED WITH VIBRATORY ROLLER.

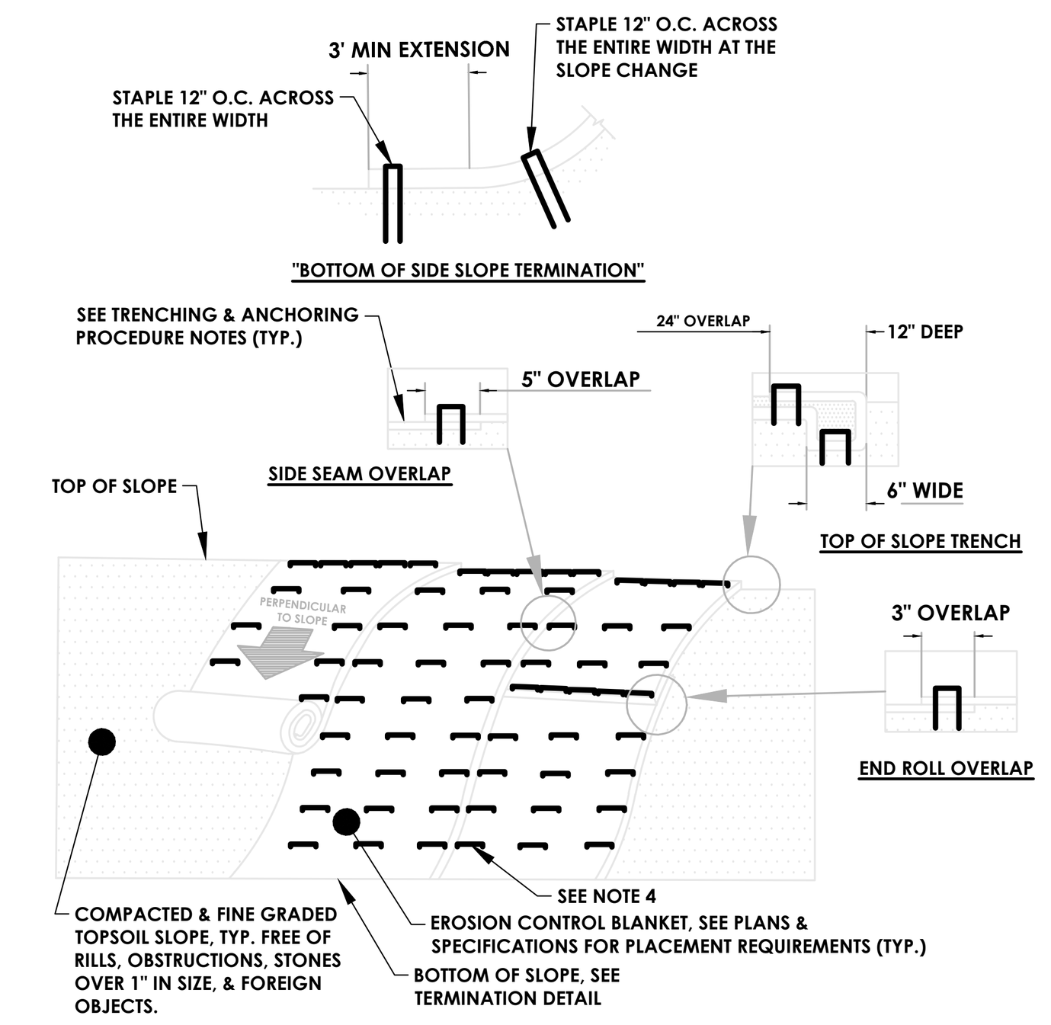
NOTE:
1. ALL BOLLARDS ADJACENT TO GATE OPERATORS SHALL BE 3'-0" ABOVE FINISHED GRADE.
2. ALL BOLLARDS TO BE SET PLUMB.

ENCLOSURE PLAN — FENCE ELEVATION — DUMPSTER ENCLOSURE BOLLARD — CONCRETE PAD DETAIL

1 DUMPSTER ENCLOSURE DETAIL
N.T.S.



2 WATERMAIN TRENCH DETAIL
N.T.S.



NOTES:

1. PREPARE THE TOPSOIL (SEEDBED) FIRST BY RAKING, SHAPING, FINE GRADING, COMPACTING, SEEDING & FERTILIZING THE SLOPES.

2. USE THE TRENCHING & ANCHORING PROCEDURES DETAILED HEREIN TO SECURE ANY EXPOSED MATERIAL ENDS, SECURE ALL PRODUCT OVERLAPS, OVERLAP IN THE DIRECTION OF WATER FLOW, PERPENDICULAR TO THE SLOPE.

3. KEEP EROSION CONTROL BLANKET IN SOLID CONTACT WITH THE TOPSOIL.

4. USE THE REQUIRED NUMBER OF STAPLES/STAKES TO SECURELY FASTEN THE EROSION CONTROL BLANKET TO THE SLOPE IN LOOSE SOIL CONDITIONS. THE USE OF STAPLES/STAKES LENGTHS GREATER THAN 6" MAYBE NECESSARY FOR PROPER SECURING. STAPLE PATTERNS & OVERLAPS ARE DEPENDENT ON SITE CONDITIONS & MANUFACTURER'S REQUIREMENTS. CONTRACTOR SHALL CONSULT WITH MANUFACTURER FOR ACTUAL SITE SPECIFIC REQUIREMENTS.

TRENCHING & ANCHORING PROCEDURE NOTES:

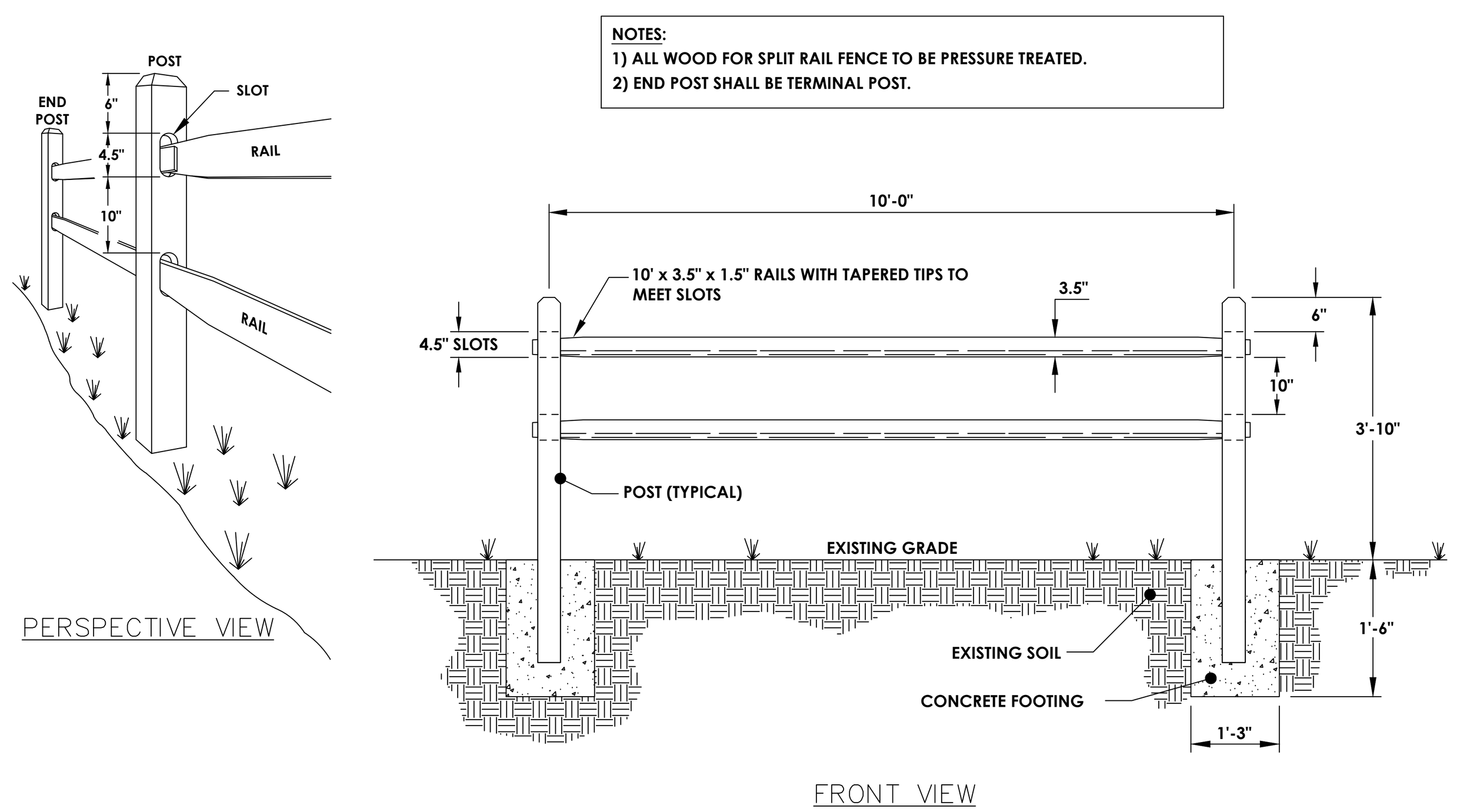
SIDE SEAM OVERLAP: THE EDGES OF PARALLEL BLANKETS SHALL BE STAPLED WITH A 5" OVERLAP.

TOP OF SLOPE TRENCH: BEGIN AT THE TOP OF SLOPE BY ANCHORING THE EROSION CONTROL BLANKET IN A 6"D X 6"W TRENCH WITH A 12" OVERLAP EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR WITH A ROW OF STAPLES/STAKES 12" O.C. IN THE BOTTOM OF THE TRENCH. BACKFILL & COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL & FOLD THE REMAINING 12" PORTION OF THE EROSION CONTROL BLANKET BACK OVER THE SEED & COMPACTED SOIL. SECURE THE EROSION CONTROL BLANKET BACK OVER THE SEED & COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED 12" O.C. ACROSS THE ENTIRE WIDTH.

END ROLL OVERLAP: CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE SHALL BE PLACED END OVER END (SINGLE-STYLE) WITH A 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREAS, 12" APART ACROSS THE ENTIRE WIDTH.

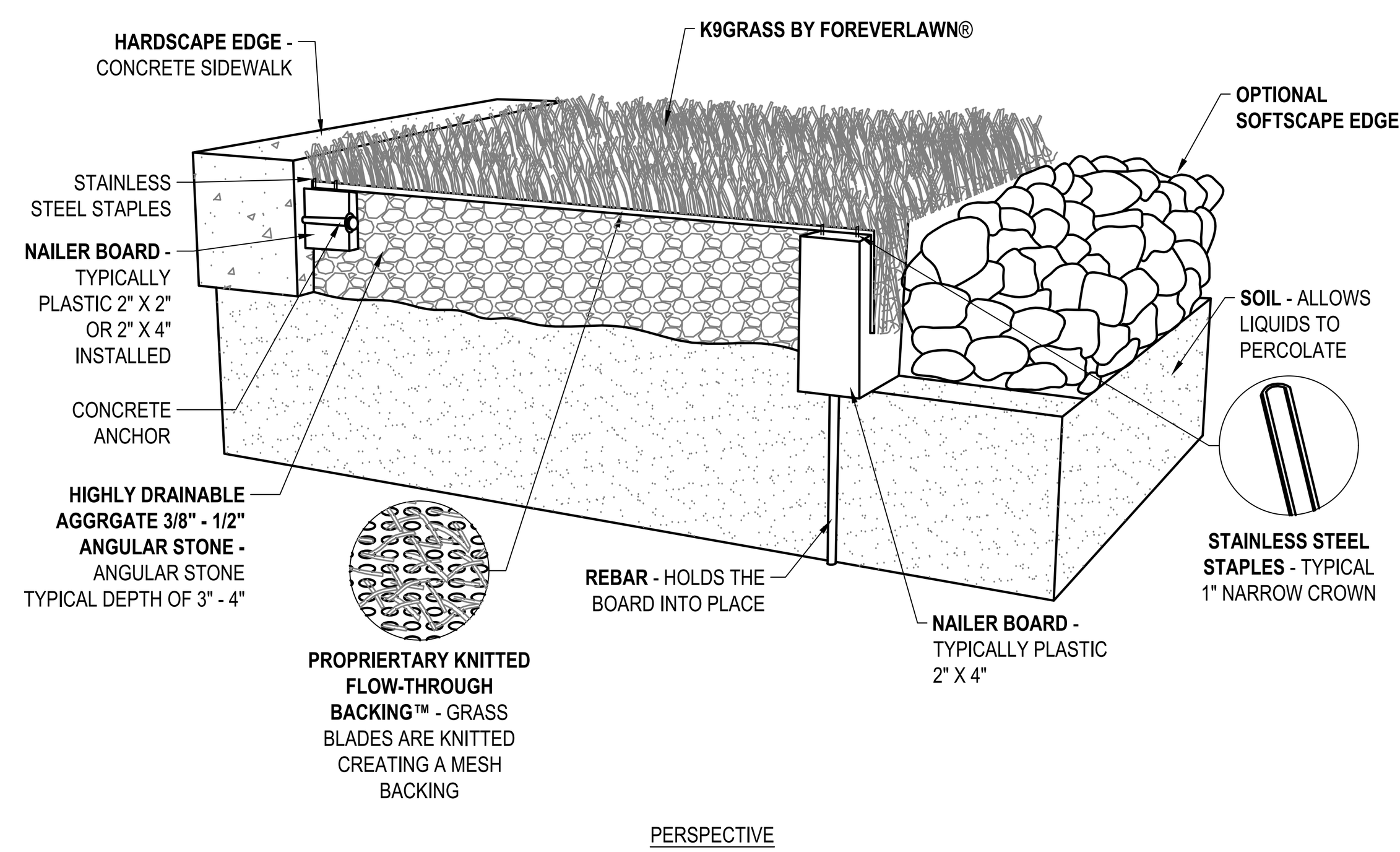
3 EROSION CONTROL BLANKET INSTALLATION DETAIL
N.T.S.

NOTES:
1) ALL WOOD FOR SPLIT RAIL FENCE TO BE PRESSURE TREATED.
2) END POST SHALL BE TERMINAL POST.



PERSPECTIVE VIEW — FRONT VIEW

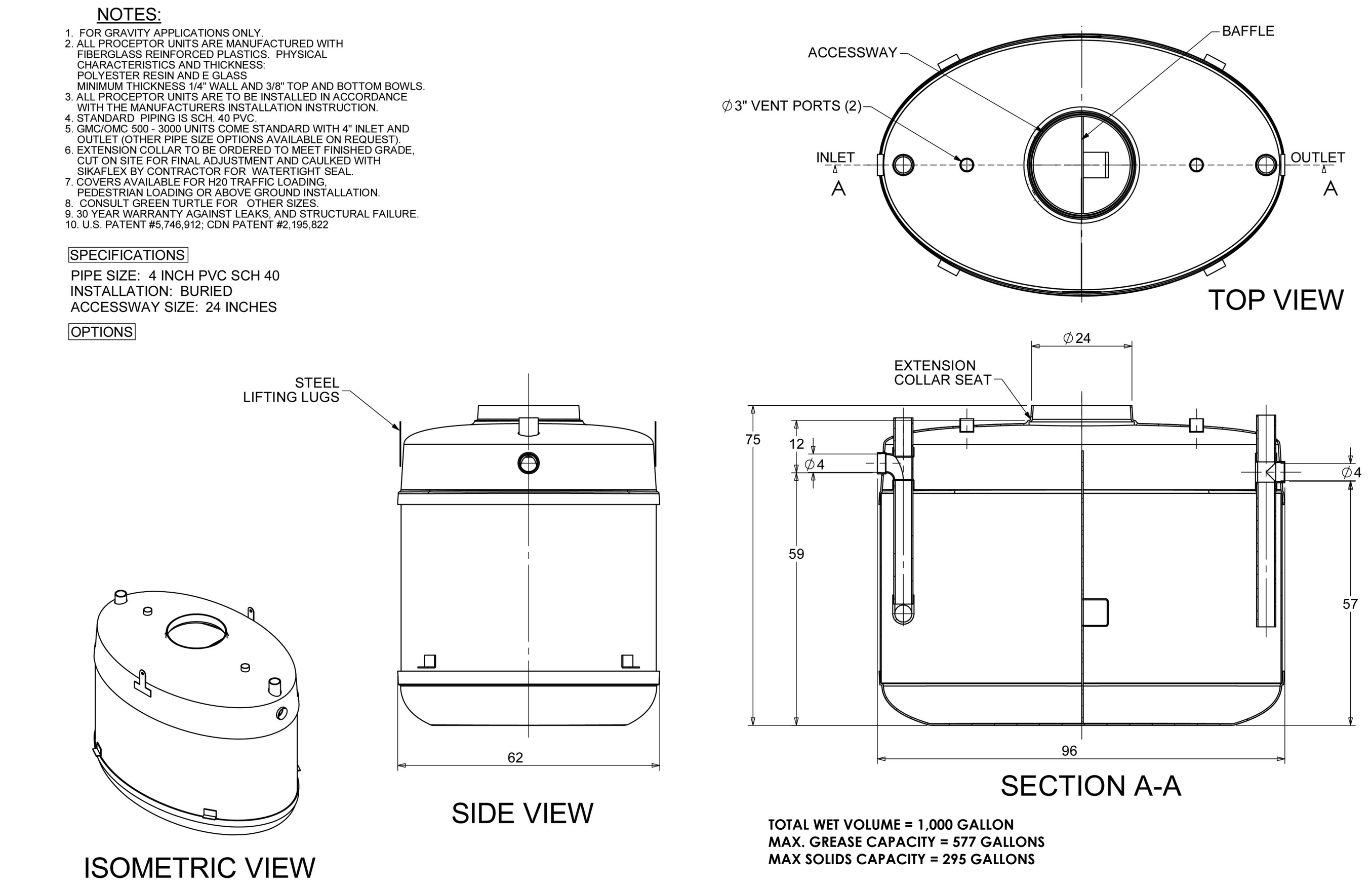
4 STANDARD SPLIT-RAIL FENCE
(TO BE INSTALLED NEAR BIORETENTION AREAS)
N.T.S.



PERSPECTIVE

NOTES
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

5 ARTIFICIAL TURF DETAIL
(TO BE INSTALLED AT DOG RUN)
N.T.S.

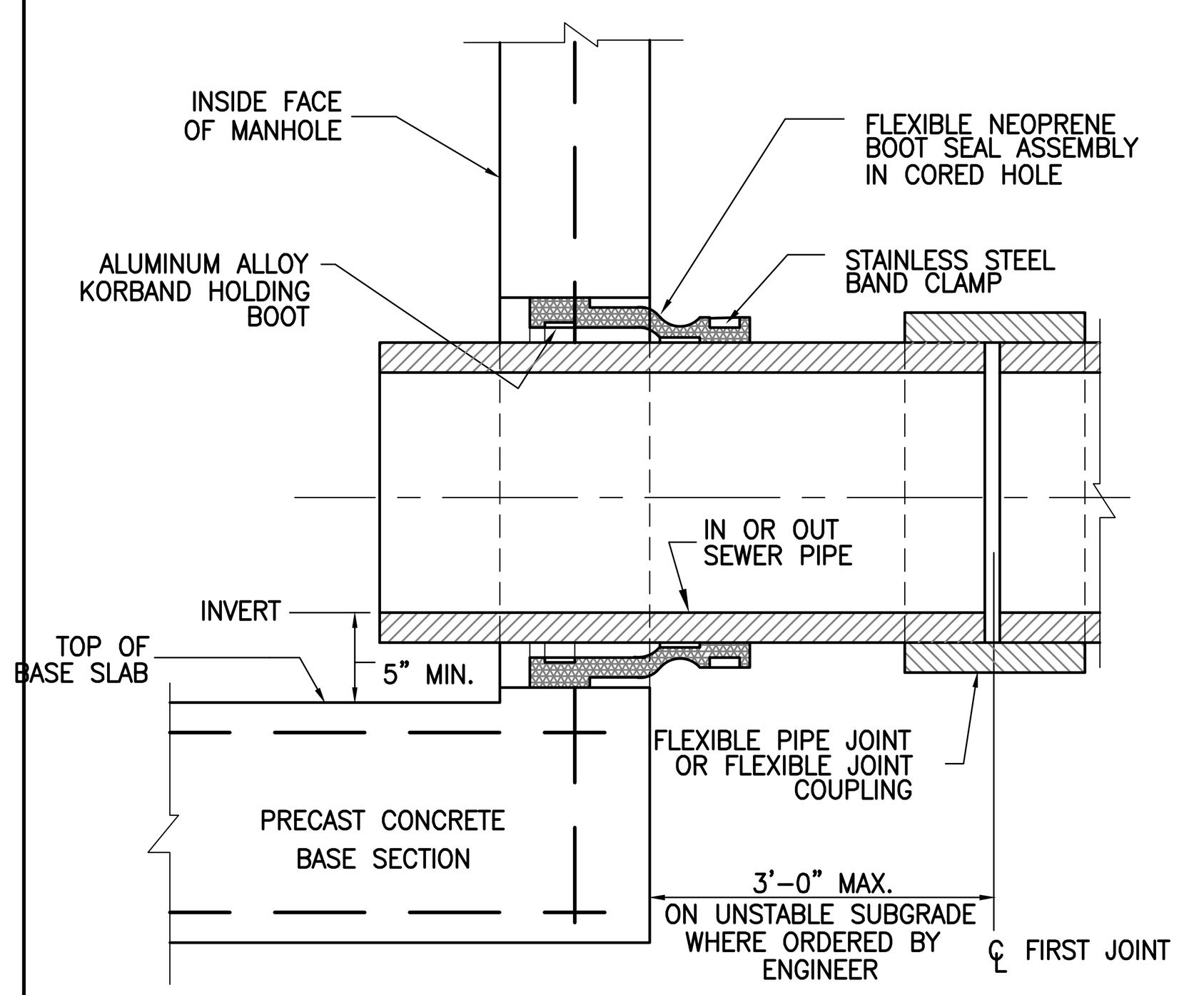


SPECIFICATIONS
PIPE SIZE: 4 INCH PVC SCH 40
INSTALLATION: BURIED
ACCESSWAY SIZE: 24 INCHES

TOTAL WET VOLUME = 1,000 GALLON
MAX. GREASE CAPACITY = 577 GALLONS
MAX SOLIDS CAPACITY = 295 GALLONS

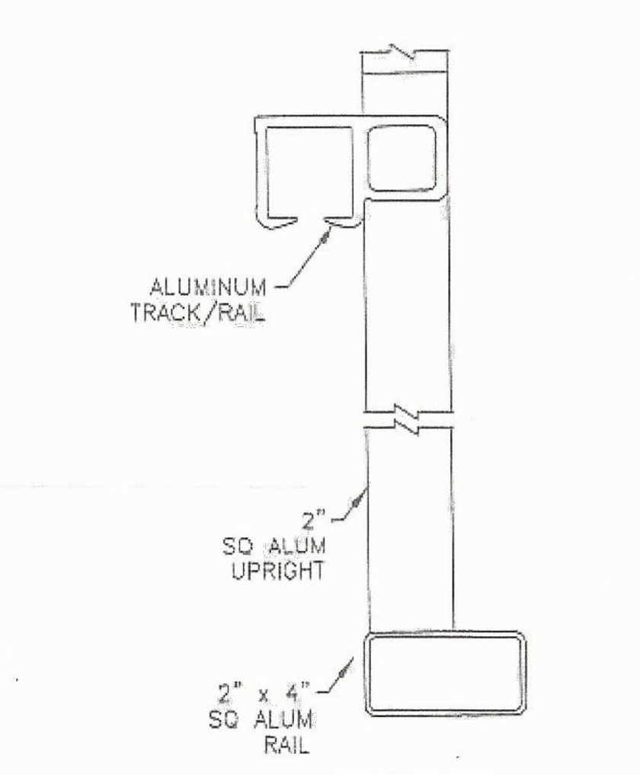
TOP VIEW — ISOMETRIC VIEW — SIDE VIEW — SECTION A-A

6 GREASE TRAP DETAIL
PROCEPTOR F.O.G. SEPARATOR GMC 1000
N.T.S.

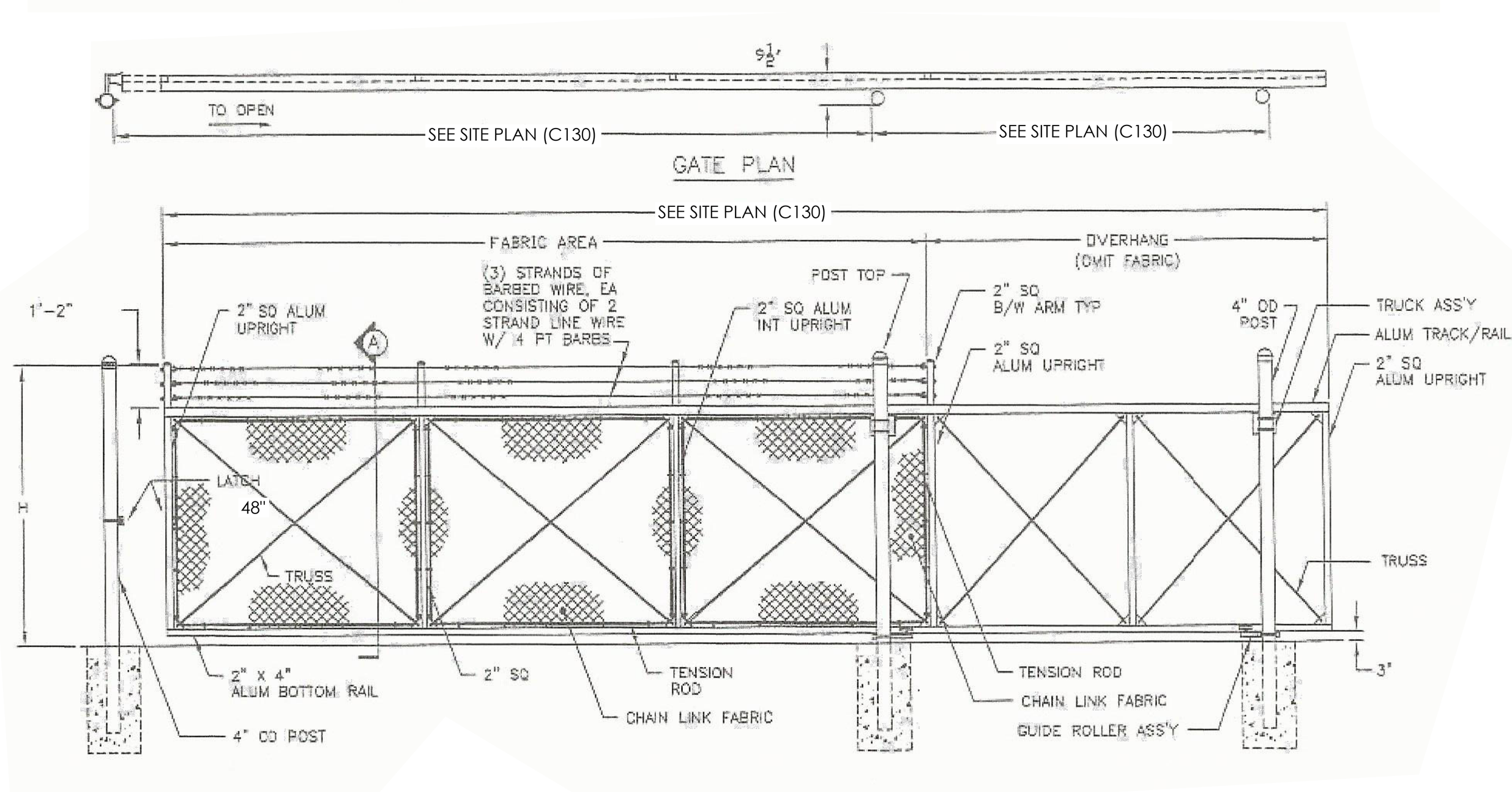


7 FLEXIBLE PIPE TO M.H./C.B. CONNECTION DETAIL
N.T.S.

OPENING	LENGTH (L)	GATE POSTS (G)	BAYS	OVERHANG
I/S POST FACE TO I/S POST FACE	O/S DIM OF GATE LEAF	O/S POST FACE TO O/S POST FACE	NUMBER OF BAYS WITH CHAIN LINK	NUMBER OF BAYS WITHOUT CHAIN LINK
6'-0"	11'-0"	5'-0"	(1) ONE	(1) ONE
7'-0"	12'-0"	5'-0"	(1) ONE	(1) ONE
8'-0"	13'-0"	5'-0"	(1) ONE	(1) ONE
9'-0"	14'-0"	5'-0"	(2) TWO	(1) ONE
10'-0"	15'-0"	5'-0"	(2) TWO	(1) ONE
12'-0"	18'-0"	6'-0"	(2) TWO	(1) ONE
14'-0"	20'-6"	6'-0"	(2) TWO	(1) ONE
16'-0"	23'-6"	7'-0"	(3) THREE	(2) TWO
18'-0"	26'-0"	7'-6"	(3) THREE	(2) TWO
20'-0"	28'-6"	8'-0"	(3) THREE	(2) TWO
22'-0"	31'-6"	9'-0"	(4) FOUR	(2) TWO
24'-0"	34'-6"	10'-0"	(4) FOUR	(2) TWO
26'-0"	37'-6"	11'-0"	(4) FOUR	(2) TWO
28'-0"	40'-6"	12'-0"	(5) FIVE	(2) TWO
30'-0"	42'-6"	12'-0"	(5) FIVE	(2) TWO



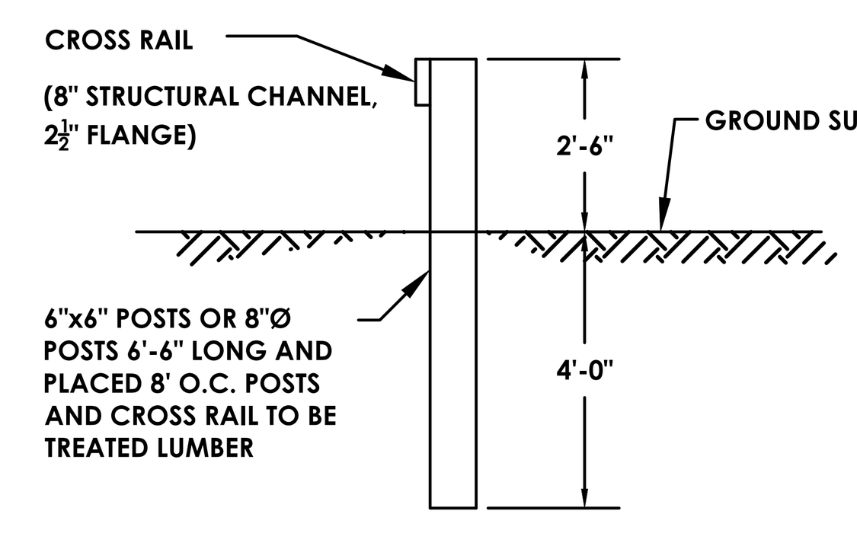
SECTION A-A
(6" THRU 30" OPENINGS)



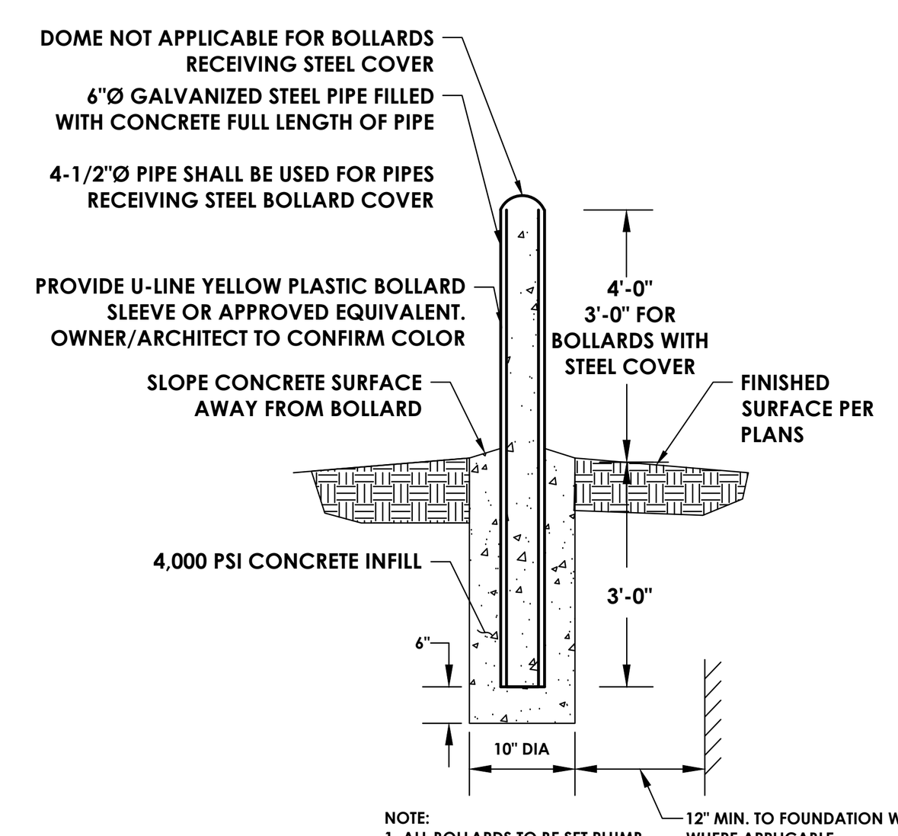
GATE PLAN

NOTES:
1. FOOTING WIDTH TO BE (4)X POST WIDTH. MIN DEPTH TO BE 36".
2. GATES MAY BE MANUALLY OR ELECTRICALLY OPERATED.

8 ROLLING GATE DETAIL
N.T.S.



9 GUIDE RAIL DETAIL
N.T.S.



NOTE:
1. ALL BOLLARDS TO BE SET PLUMB.

11 BOLLARD
N.T.S.

REQUIRED BEARING AREAS –b (SQFT) FOR BEARING BLOCKS*					
PIPE SIZE (INCHES)	TEE	90° BEND	45° BEND	22 1/2 ° BEND	11 1/4 ° BEND
4	2.0	2.8	1.5	0.8	0.4
6	4.2	5.9	3.2	1.6	0.8
8	7.2	10.1	5.5	2.8	1.4
10	10.9	15.4	8.3	4.2	2.1
12	15.4	21.8	11.8	6.0	3.0

*FACTOR OF SAFETY=1.5
SOIL BEARING OF 3,000 PSF
225 PSI DESIGN PRESSURE

THRUST REACTIONS–R(LB) PER 100PSI INTERNAL PRESSURE					
NOM PIPE DIA IN.	DEAD END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1,810	2,559	1,385	706	355
6	3,739	5,288	2,862	1,459	733
8	6,433	9,097	4,923	2,510	1,261
10	9,677	13,685	7,406	3,776	1,897
12	13,685	19,353	10,474	5,340	2,683

MINIMUM REQUIRED BEARING AREAS & DIMENSIONS FOR CONCRETE THRUST BLOCKS

PIPE SIZE (IN.)	TEE (NOTE #1)		90° (1/4) BEND		45° (1/8) BEND		22.5° (1/16) BEND		11.25° (1/32) BEND	
	AREA SQ.FT.	DIMENSIONS D x L	AREA SQ.FT.	DIMENSIONS D x L	AREA SQ.FT.	DIMENSIONS D x L	AREA SQ.FT.	DIMENSIONS D x L	AREA SQ.FT.	DIMENSIONS D x L
3"	1.5	1.0x1.5	2.0	1.0x2.0	1.2	0.8x1.5	0.6	0.8x0.8	0.4	0.5x0.8
4"	2.6	1.3x2.0	3.2	1.6x2.0	1.7	1.3x1.3	1.0	0.8x1.3	0.5	0.5x1.0
6"	4.5	1.8x2.5	6.0	2.0x3.0	3.5	1.5x2.3	2.0	1.3x1.5	1.2	0.8x1.5
8"	7.5	2.5x3.0	10.6	2.8x3.8	5.8	2.3x2.5	3.0	1.5x2.0	1.5	1.0x1.5

NOTES:

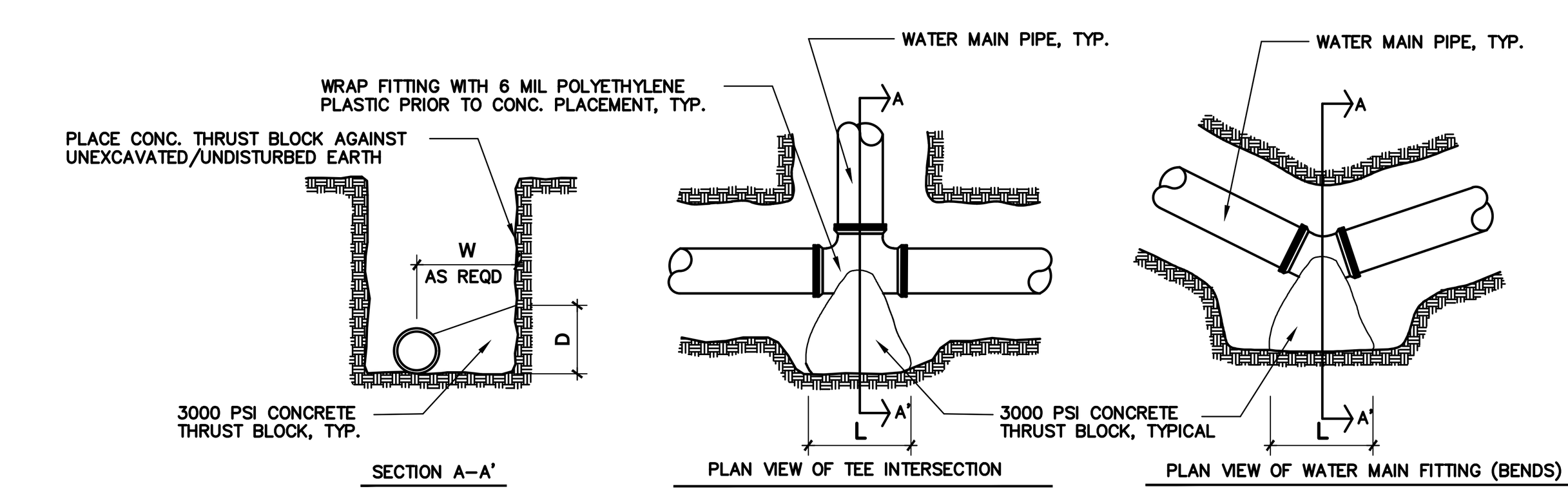
1. VALUES FOR TEE APPLY TO TEES, END PLUGS, CAPS, AND TAPPING SLEEVES.

2. REQUIRED BEARING AREAS ARE DUE TO THRUSTS CAUSED BY 150PSI WORKING PRESSURE PLUS 50%(75 PSI) SURGE ALLOWANCE RESULTING IN 225 PSI TOTAL INTERNAL PRESSURE.

3. REQUIRED BEARING AREAS ARE BASED ON ALLOWABLE SOIL BEARING CAPACITY OF 3,000 POUNDS PER SQUARE FOOT. DUE TO OTHER SOIL CONDITIONS ENCOUNTERED, BEARING AREAS MAY BE MODIFIED BY THE ENGINEER.

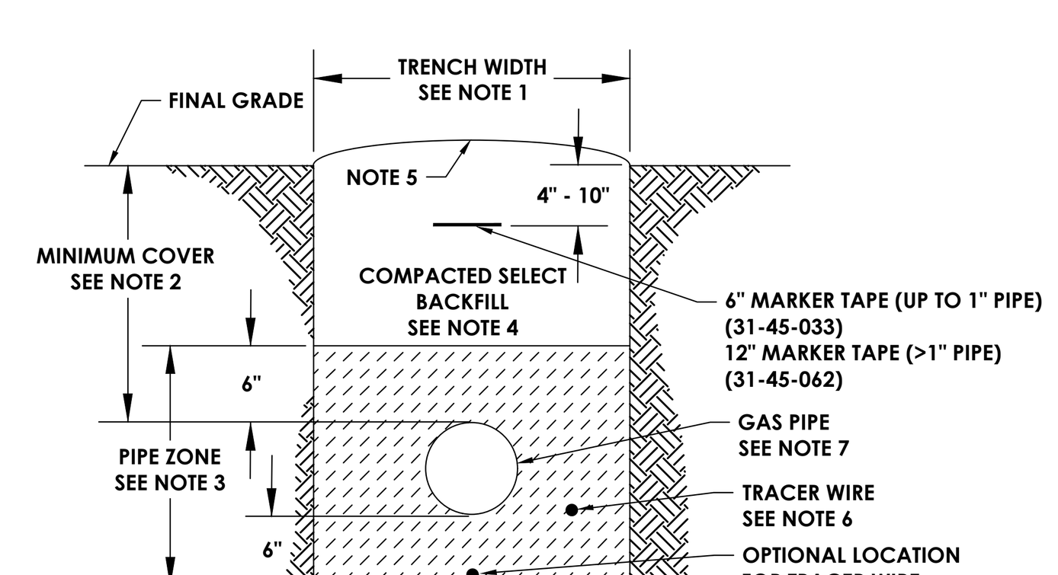
SOIL	BEARING STRENGTH B_S (LB/SQ FT)
MUCK	0
SOFT CLAY	1,000
SILT	1,500
SANDY SILT	3,000
SAND	4,000
SANDY CLAY	6,000
HARD CLAY	9,000

4. IF MUCK, PEAT, OR RECENTLY PLACED FILL ARE ENCOUNTERED/REQUIRED, ALL THRUSTS SHALL BE RESISTED BY PILES OR TIE RODS TO SOLID FOUNDATIONS, OR BY REMOVAL OF SUCH UNSTABLE MATERIAL AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE THRUSTS, ALL AS REQUIRED BY THE ENGINEER.



SECTION A–A' — PLAN VIEW OF TEE INTERSECTION — PLAN VIEW OF WATER MAIN FITTING (BENDS)

12 THRUST BLOCK RESTRAINTS
N.T.S.



NOTES:

1. THE MINIMUM TRENCH WIDTH SHALL BE AS FOLLOWS:

PIPE SIZE	TRENCH WIDTH
UP TO 1" CTS	4"
1 1/4" - 2"	12"
3" - 6"	PIPE O.D. + 12"

2. MINIMUM DEPTH OF COVER FROM FINAL GRADE TO TOP OF PIPE SHALL BE AS FOLLOWS:

IN EARTH	IN ROCK
18"	12"

REFER TO G 01 03 001.0 FOR SPECIAL COVER REQUIREMENTS IN CULTIVATED LAND OR NAVIGABLE WATERWAYS AND G 01 03 004.1 FOR SHALLOW COVER. GREATER DEPTHS MAY BE REQUIRED BY THE GOVERNING AUTHORITY.

3. SAND PADDING IS REQUIRED IN THE PIPE ZONE. REFER TO G 01 03 005.0 FOR THE DEFINITION OF SAND PADDING. IT SHALL BE THOROUGHLY COMPACTED IN 12" LIFTS OR AS REQUIRED BY THE GOVERNING AUTHORITY.

4. COMPACTED SELECT BACKFILL MAY BE ON-SITE MATERIAL PROVIDED IT CONTAINS NO ROCKS OR STONES OVER 6" IN DIAMETER, ROOTS, STUMPS, OR CONSTRUCTION DEBRIS. IT SHALL BE THOROUGHLY COMPACTED IN 12" LIFTS OR AS REQUIRED BY THE GOVERNING AUTHORITY.

5. THE BACKFILLED TRENCH SHALL BE CROWNED SLIGHTLY TO ALLOW FOR FUTURE SETTLEMENT.

6. FOR PLASTIC PIPE, TRACER WIRE SHALL BE INSTALLED PER G 02 03 005.0 AND G 02 03 006.0.

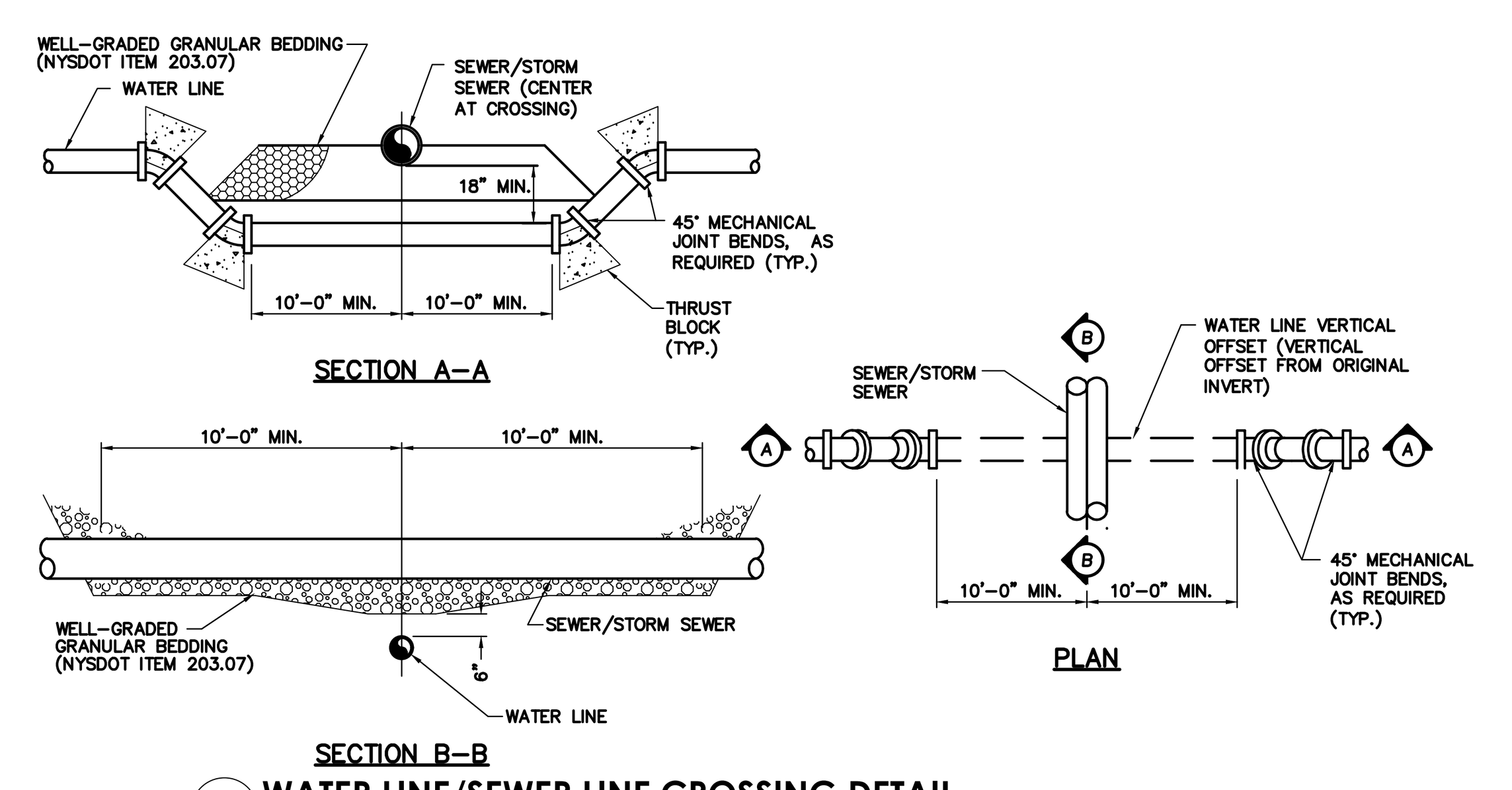
7. IN AREAS WHERE PLASTIC PIPE LESS THAN 6" IN DIAMETER IS INSTALLED BELOW THE WATER TABLE, AN UNOPENED 75 LB. BAG OF CONCRETE MIX SHALL BE PLACED DIRECTLY OVER THE PIPE EVERY 40 FEET TO PREVENT THE PIPE FROM FLOATING UP AFTER INSTALLATION. THE BAG SHALL BE BACKFILLED ALONG WITH THE PIPE.

8. REFER TO G 02 01 037.0 TO DETERMINE THE NEED FOR SHORING OR SLOPING.

9. REFER TO G 01 03 004.0 FOR MINIMUM BELOW GRADE CLEARANCES.

10. IN STEEP TERRAIN, TRENCH BREAKERS AND EROSION CONTROL MAY BE REQUIRED. CONSULT WITH GAS & MECHANICAL ENGINEERING.

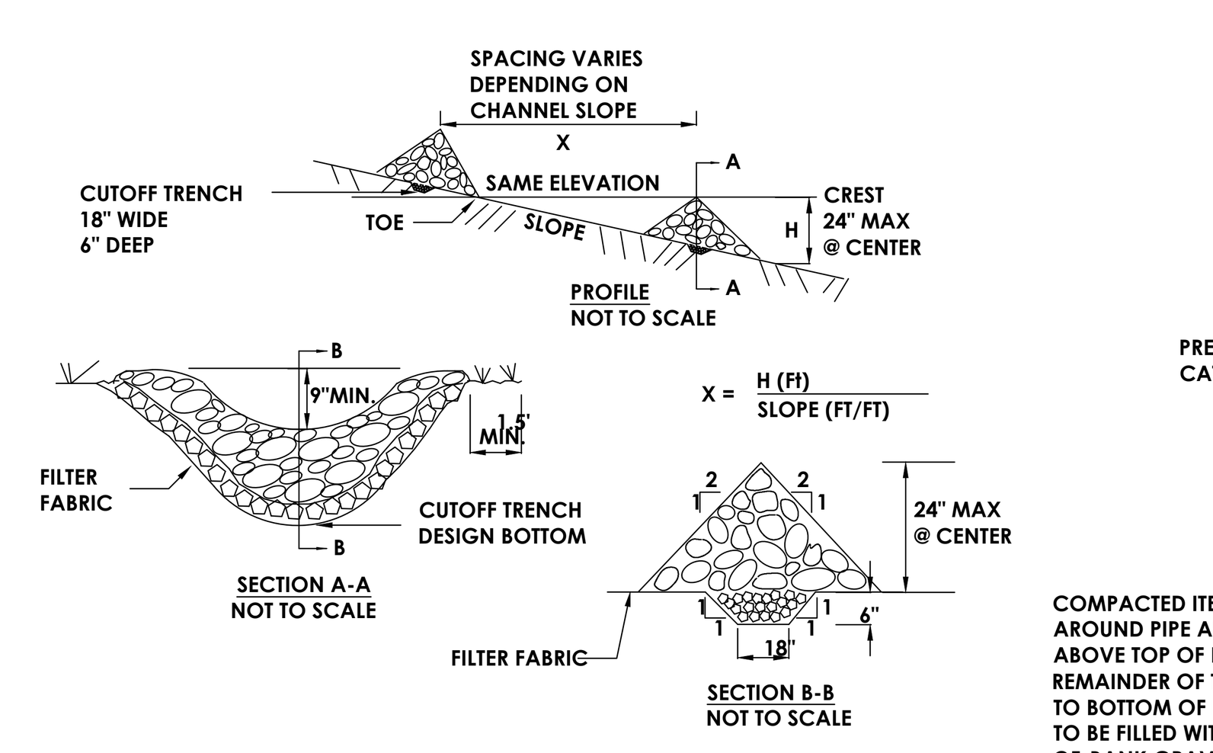
12 TRENCHING AND BACKFILL REQUIREMENTS DISTRIBUTION SERVICES
N.T.S.
PER CENTRAL HUDSON GAS & ELECTRIC CORP.



SECTION A–A — SECTION B–B — PLAN

NOTES:
1. IF MUCK, PEAT, OR RECENTLY PLACED FILL ARE ENCOUNTERED/REQUIRED, ALL THRUSTS SHALL BE RESISTED BY PILES OR TIE RODS TO SOLID FOUNDATIONS, OR BY REMOVAL OF SUCH UNSTABLE MATERIAL AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE THRUSTS.

13 WATER LINE/SEWER LINE CROSSING DETAIL
N.T.S.

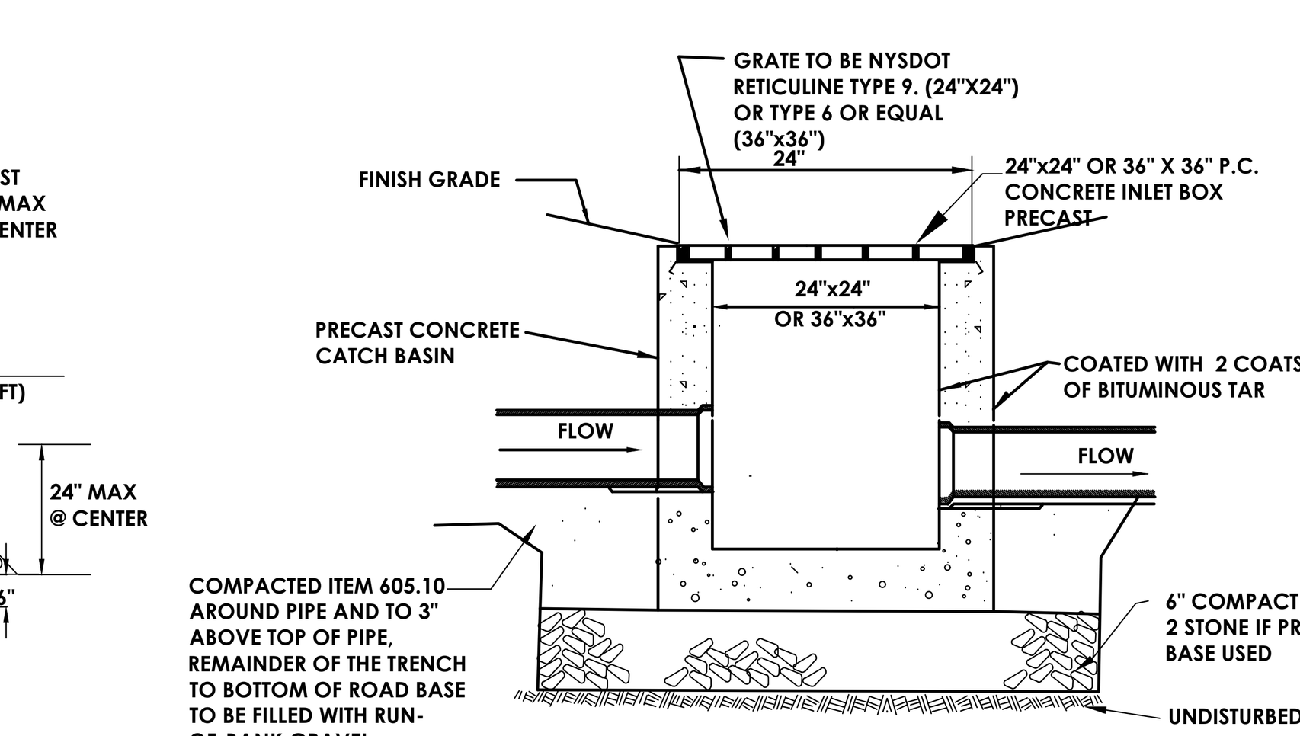


SECTION A-A NOT TO SCALE — SECTION B-B NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA 2 ACRES.

14 STONE CHECK DAM
N.T.S.



1. ALL CONCRETE TO BE 3500 psi CLASS A N.Y.S.D.O.T. ITEM 601.05

2. ALL CONCRETE IN CONTACT WITH ASPHALT PAVEMENT SHALL BE COVERED WITH A TACK COAT IN ACCORDANCE WITH N.Y.S.D.O.T. SECTION 407.

15 SHALLOW CATCH BASIN
N.T.S.

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Consultant

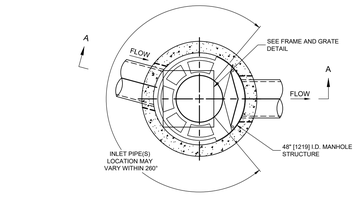
Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING
CTE NEWBURGH

Drawn By:	MP
Checked By:	SK
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

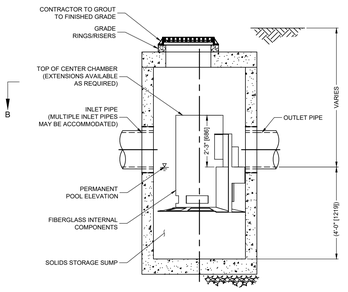
Sheet Title
SITE DETAILS

Sheet No.
CTE
C232

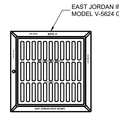
CONSTRUCTION DOCUMENTS



PLAN VIEW B-B
NOT TO SCALE



ELEVATION A-A
NOT TO SCALE



CONTECH CS-4 UNIT GRATE
N.T.S.

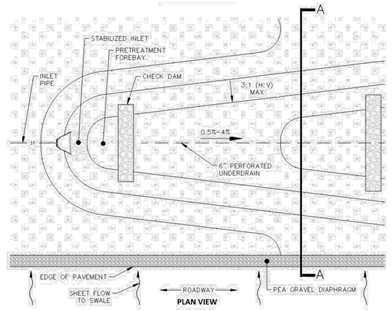
GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

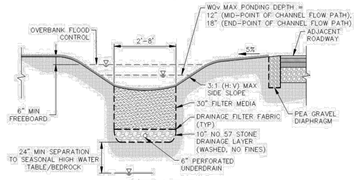
1 CONTECH CS-4 UNIT DETAIL (3 REQUIRED)
N.T.S.
UNIT IS CONTECH "CASCADE SEPARATOR"
SEE PLAN FOR GRATE & INVERT ELEVATIONS AND PIPE ORIENTATIONS

Dry Swale (O-1)

Dry swales are a vegetated conveyance channel designed to include a filter bed of prepared soil that may overlay an underdrain system. Dry swales are sized to allow the entire WQv to be filtered or infiltrated through the bottom of the swale.

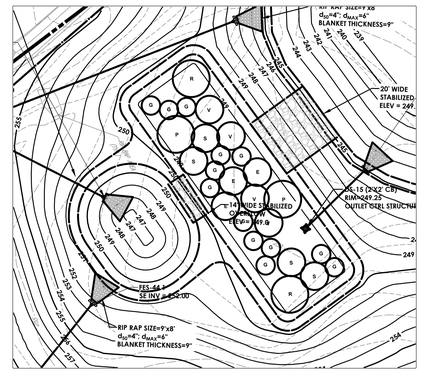


PLAN VIEW

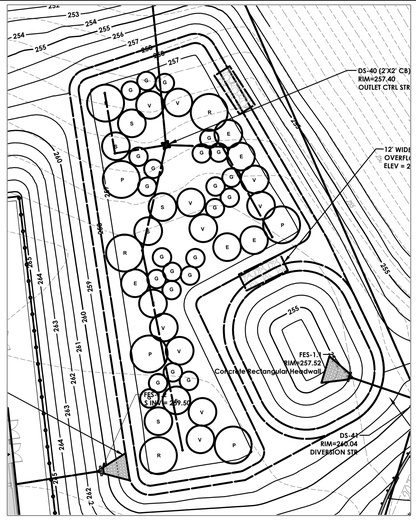


SECTION A-A VIEW

2 DRY SWALE DETAIL
N.T.S.



3 BIORETENTION AREA #1 PLANTING DETAIL
SCALE: 1" = 20'



4 BIORETENTION AREA #2 PLANTING DETAIL
SCALE: 1" = 20'

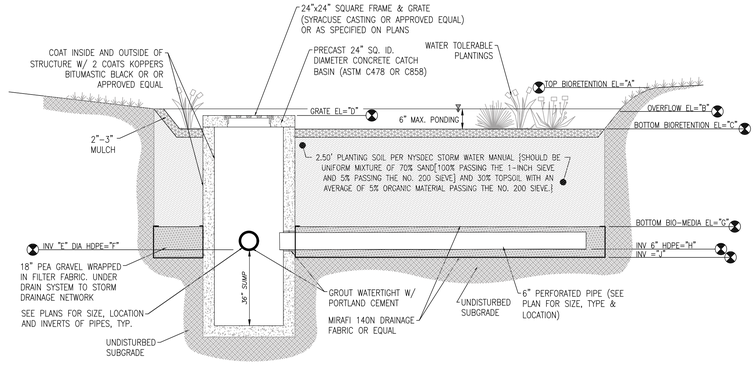
BIORETENTION PLANT LIST

ABRV	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
E	X	EUPATORIUM MACULATUM	JOE PYE WEED	#1 CONT.	24"
G	X	LOBELIA SIPHATICA	GREAT BLUE LOBELIA	#1 CONT.	12"
R	X	CORNUS STOLONIFERA	RED OSIER DOGWOOD	#1 CONT.	4'
P	X	ILEX VERTICILLATA	WINTERBERRY	#1 CONT.	4'
V	X	CAREX VULPINOIDEA	FOX SEDGE	#1 CONT.	12"
S	X	PANICUM VIRGATUM	SWITCH GRASS	#1 CONT.	3'

MATERIALS SPECIFICATION FOR BIORETENTION

PARAMETERS	SPECIFICATIONS	SIZE	NOTES:
PLANTINGS	SEE YOUR LOCAL NRCS STANDARD SPECIFICATIONS GUIDANCE	N/A	PLANTINGS ARE SITE-SPECIFIC
PLANTING SOILS [4"=DEEP]	SAND 50% TOPSOIL 50%	N/A	USDA SOIL TYPES LOAMY SAND, SANDY LOAM OR LOAM
MULCH	UN COLORED SHREDDED HARDWOOD		AGED 6 MONTHS, MINIMUM
GEOTEXTILE	CLASS "C" APPARENT OPPENING SIZE (ASTM-D-4751) GRAB TENSILE STREANGTH (ASTM-D-4632) BURST STRENGTH (ASTM-D-4833)	N/A	FOR USE AS NECESSARY BENEATH UNDERDRAINS ONLY
UNDERDRAIN GRAVEL	AASHTO M-43. NO. 67.	0.25" - 0.75"	MINIMUM OF 3" GRAVEL OVER PIPES
UNDERDRAIN PIPING	ASTM D 1785 OR AASHTO M-278	6" RIDGID SCHEDULE 40 PVC	3/8" PERF. @ 6" O.C., 4 HOLES PER ROW
SAND [12"=DEEP]	AASHTO M-6 OR ASTM C-33	0.02" - 0.04"	SAND SUBSTITUTION SUCH AS DIABASE GRAYSTONE #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATE OR DOLOMITIC SAND SUBSTITUTE ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR SAND

NOTES:
1. BIORETENTION FACILITIES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH "THE NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL", CHAPTER 6.
2. PLANTING SOIL SHALL BE TESTED & MEET THE FOLLOWING CRITERIA:
   - PH RANGE 5.2-7.0
   - ORGANIC MATTER 1.5-4%
   - MAGNESIUM 35 LB/AC
   - PHOSPHOROUS P_2O_5 75LB/AC
   - POTASSIUM K_2O 85/AC
   - SOLUBLE SALTS NOT TO EXCEED 500PPM
3. ROTOTILL 2-3" OF SAND BASE INTO THE BASE OF THE BIORETENTION FACILITY.
4. BACK FILLING OF BIORETENTION FACILITY SHALL BE PLACED IN 12" LIFTS.
5. MAIN COLLECTOR PIPE OF THE UNDER DRAIN SYSTEM SHALL BE CONSTRUCTED AT A MINIMUM SLOPE OF 0.5%. OBSERVATION WELLS OR CLEAN OUT PIPES MUST BE PLACED EVERY 1000SF OF SURFACE AREA.
6. BIORETENTION AREA MAY NOT BE CONSTRUCTED UNTIL ALL CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
7. BIORETENTION MEDIA SHALL HAVE AN INFILTRATION RATE OF APPROXIMATELY 1" PER HOUR.

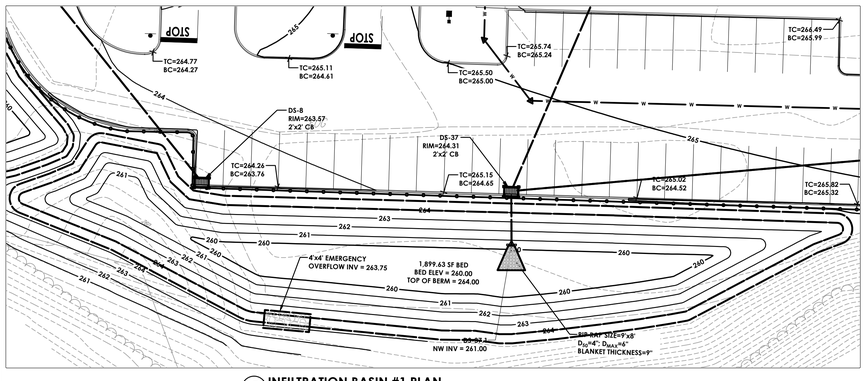


N.T.S.

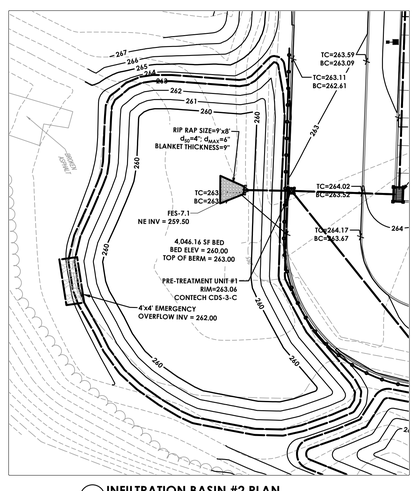
7 TYPICAL BIORETENTION SECTION
SCALE: 1" = 20'

BIORETENTION DESIGN INFORMATION

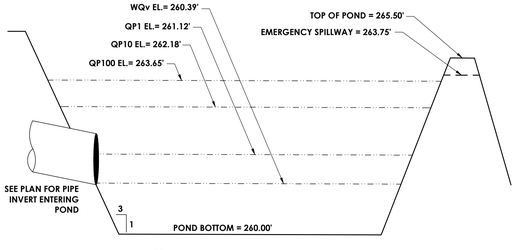
PRACTICE	A	B	C	D	E	F	G	H	J
#1	250.00'	249.50'	249.00'	249.45'	245.75'	12.0"	246.50	245.75'	245.50'
#2	258.00'	257.50'	257.00'	257.40'	253.75'	12.0"	254.50	253.75'	253.50'



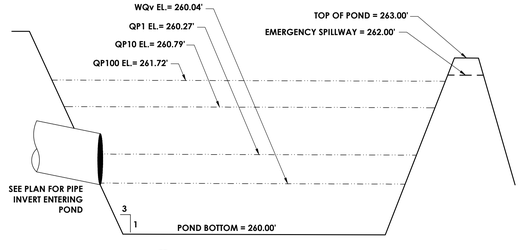
5 INFILTRATION BASIN #1 PLAN
SCALE: 1" = 20'



6 INFILTRATION BASIN #2 PLAN
SCALE: 1" = 20'



8 INFILTRATION BASIN #1 SECTION
SCALE: 1" = 20'



9 INFILTRATION BASIN #2 SECTION
SCALE: 1" = 20'

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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING
CTE NEWBURGH

STATE OF NEW YORK CHRISTOPHER J. LADOUCEUR 102592 LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	MP
Checked By:	SK
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
STORMWATER MANAGEMENT DETAILS

Sheet No.
CTE C233

CONSTRUCTION DOCUMENTS

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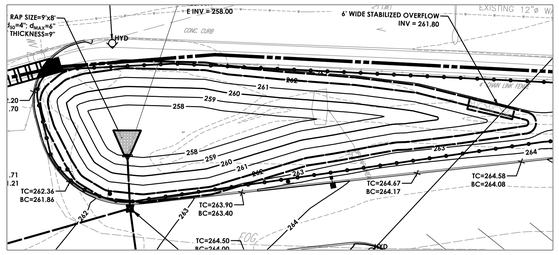

1 **INFILTRATION BASIN #3 PLAN**
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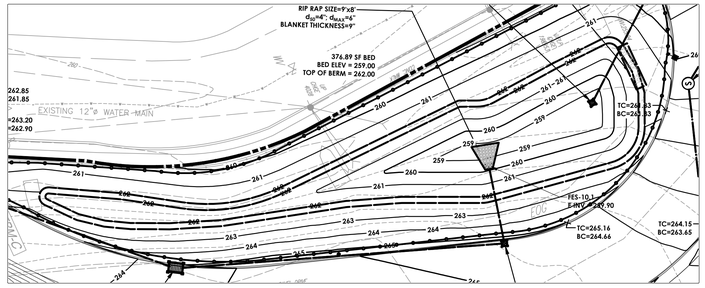

2 **INFILTRATION BASIN #4 PLAN**
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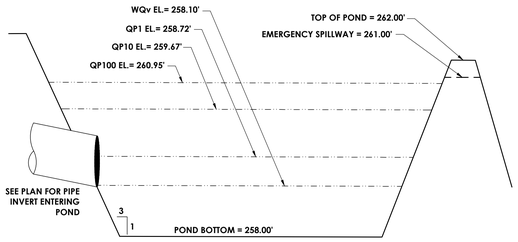

3 **INFILTRATION BASIN #3 SECTION**
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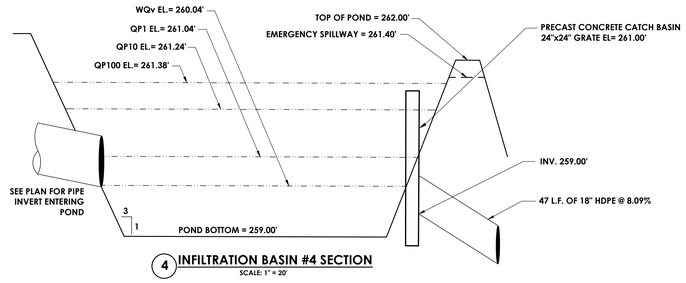

4 **INFILTRATION BASIN #4 SECTION**
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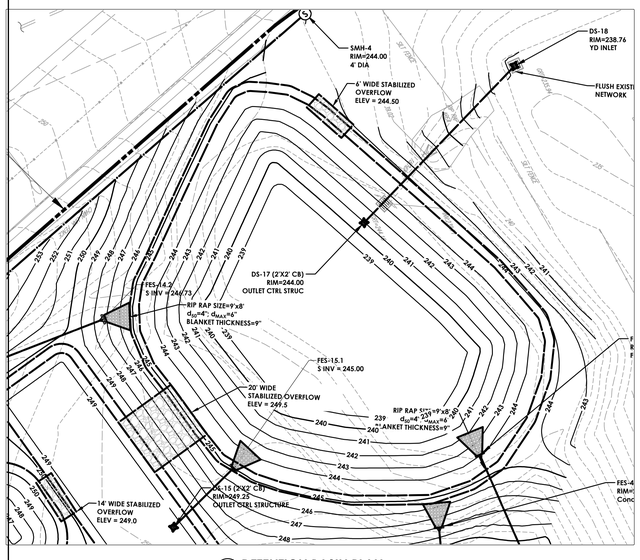
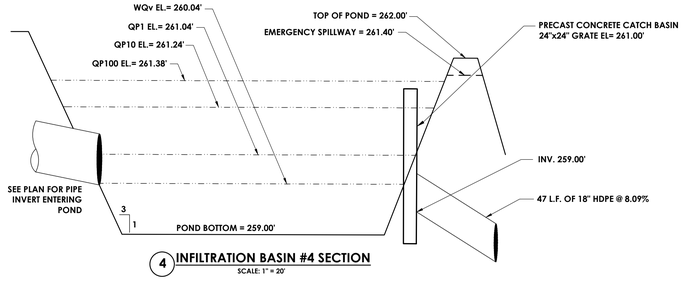


2 **DETENTION BASIN PLAN**
SCALE: 1" = 20'



4 **INFILTRATION BASIN #4 SECTION**
SCALE: 1" = 20'

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STORMWATER MANAGEMENT DETAILS

Sheet No.

CTE
C234

CONSTRUCTION DOCUMENTS

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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 SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S 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. CHANGES AFFECTING THE LAYOUT 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 PROJECT 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.

FOUNDATION NOTES

1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT BY QUALITY GEO ENGINEERING, P.C., PROJECT NO. SE20-042, AND DATED JANUARY 6, 2021. 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.
2. DESIGN OF FOOTINGS AND FOUNDATION WALLS IS BASED ON THE FOLLOWING CRITERIA:
   A. MAXIMUM ALLOWABLE BEARING PRESSURE = 3,000 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' - 0". 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.
4. ALL UNSUITABLE FOUNDATION MATERIAL SHALL BE REMOVED WITH FOOTINGS RESTING ON UNDISTURBED SOIL OR STRUCTURAL FILL WITH A MINIMUM BEARING CAPACITY OF 3,000 PSF, UNLESS OTHERWISE INDICATED. ALL EXISTING FILL TYPE MATERIALS TO BE REMOVED WITHIN THE PROPOSED BUILDING FOOTPRINT AND AN ADDITIONAL HORIZONTAL DISTANCE OF 5'-0" BEYOND THE BUILDING FOOTPRINT. EXCAVATION TO BE BACKFILLED WITH COMPACTED STRUCTURAL FILL.
5. IT HAS BEEN DETERMINED THAT BEDROCK MAY BE INCOUNTED DURING FOUNDATION EXCAVATION, PARTICULARLY NEAR THE ELEVATOR PIT. IF DISCOVERED THE ROCK IS TO BE REMOVED TO A MINIMUM OF 6" BELOW FOUNDATION BEARING ELEVATION. THIS OVEREXCAVATION SHALL BE BACKFILLED WITH DRAINAGE STONE TO THE BEARING ELEVATION INDICATED ON THE CONTRACT DRAWINGS, PER THE GEOTECHNICAL REPORT RECOMENDATIONS.
6. 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.
7. 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.
8. TO MINIMIZE WEATHERING, THE LAST 6 INCHES OF EXCAVATION FOR ALL FOOTINGS SHALL BE MADE IMMEDIATELY PRIOR TO PLACEMENT OF FOOTINGS.
9. 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.
10. 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, TYPE II.
   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 THYOCYANATES 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. IN SLABS-ON-GRADE, PROVIDE (2) #4 X 4' - 0" LONG DIAGONAL BARS IN THE MIDDLE OF THE SLAB AT EACH CORNER OF OPENINGS OVER 1' 0" SQUARE AND AT RE-ENTRANT CORNERS. SEE RE-ENTRANT CORNER TYPICAL DETAIL.
11. PROVIDE CONTROL JOINTS IN CAST-IN-PLACE CONCRETE SLABS-ON-GRADE AT 12 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.
12. CONCRETE WALLS SHALL BE TEMPORARILY BRACED AGAINST EARTH PRESSURE AND OTHER FORCES UNTIL FLOOR SLABS ARE IN PLACE AND HAVE ATTAINED REQUIRED STRENGTHS.
13. 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 DECK AND MID-WAY BETWEEN GIRDERS
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 AUTOCLAVED 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 (IF ONE STORY IN HEIGHT) OR AT EACH FLOOR/ROOF LEVEL (IF OVER ONE STORY IN HEIGHT).
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 PERMITED).

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, ASD, 14TH 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 STRUCTRUAL 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. STRUCTURAL STEEL AND PORTIONS OF THE UNDERSIDE OF STEEL DECK SHALL BE PROTECTED WITH SPRAYED FIRE PROTECTION AS INDICATED. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING DETAILS. STRUCTURAL STEEL TO RECEIVE SPRAYED FIRE PROOFING MATERAL SHALL NOT BE PRIMED OR PAINTED.
15. COMPOSITE SLABS SHALL BE PLACED TO A MINIMUM OF THE THICKNESS INDICATED AND SHALL BE SCREEDED LEVEL.
16. 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
17. 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
18. 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 AS INDICATED 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.
19. 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. CONNECTIONS, BASEPLATES, ANCHOR BOLTS, AND GROUT
   C. MASONRY SHEAR WALLS
20. 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
21. 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
   C. STRUCTURAL STEEL BRACING AND KICKERS

STEEL JOIST AND JOIST GIRDER NOTES:

1. COMPLY WITH THE FOLLOWING CODES AND STANDARDS:
   A. SJI 100 - 2020 - STANDARD SPECIFICATION FOR K-SERIES, LH-SERIES AND DLH-SERIES OPEN WEB STEEL JOISTS AND FOR JOIST GIRDERS
   B. SJI-COSP-2020 - CODE OF STANDARD PRACTICE FOR STEEL JOISTS AND JOIST GIRDERS
   C. TECHNICAL DIGEST NO. 8 - WELDING OF OPEN WEB STEEL JOISTS AND JOIST GIRDERS
   D. TECHNICAL DIGEST NO. 9 - HANDLING AND ERECTION OF STEEL JOISTS AND JOIST GIRDERS
   E. TECHNICAL DIGEST NO. 11 - DESIGN OF LATERAL LOAD RESISTING FRAMES USING STEEL JOISTS AND JOIST GIRDERS
   F. AISC DESIGN GUIDE 40 - RAIN LOADS AND PONDING
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. STEEL JOISTS SHALL RECEIVE STANDARD SHOP PAINT. DO NOT PRIME PAINT STEEL TO RECEIVE SPRAY-APPLIED FIREPROOFING, OR SPRAY-APPLIED ACOUSTIC TREATMENTS. REFER TO ARCH DRAWINGS FOR LOCATIONS OF ACOUSTIC TREATMENTS
4. STEEL JOIST DEFLECTION DUE TO DESIGN LIVE LOAD SHALL NOT EXCEED THE FOLLOWING:
   A. ROOFS: 1/360 OF SPAN
5. 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.
6. 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.
7. STEEL JOISTS SHALL BE DESIGNED FOR THE WIND UPLIFT PRESURES SHOWN ON S005 AND S006.
8. 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.
9. 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 BRIDGING AND BRIDGING ANCHORS SHALL BE COMPLETELY INSTALLED BEFORE CONSTRUCTION LOADS ARE PLACED ON THE JOISTS.

STEEL DECK NOTES:

1. COMPLY WITH THE FOLLOWING CODES AND STANDARDS:
   A. AISI / STEEL DECK INSTITUTE "C-2011 STANDARD FOR COMPOSITE STEEL DECK-SLABS"
   B. AMERICAN WELDING SOCIETY (AWS) D1.3 "STRUCTURAL WELDING CODE- SHEET STEEL", 2015.
2. ROOF AND FLOOR DECK CONNECTIONS: IN ACCORDANCE WITH TYPICAL DECK ATTACHMENT DETAIL.
3. ALL METAL DECK HAS BEEN DESIGNED TO BE CONTINUOUS OVER THREE SPANS MINIMUM, AND SHALL BEAR AT LEAST 2 INCHES MINIMUM ON STEEL SUPPORTS OR MORE AS REQUIRED BY DECK MANUFACTURER. FOR ONE OR TWO SPAN CONDITIONS, THE CONTRACTOR SHALL PROVIDE SHORING AS REQUIRED, OR FURNISH HIGHER GAGE DECK AS REQUIRED TO SUPPORT ALL THE APPLICABLE LOADS. CONTRACTOR SHALL SUBMIT ALTERNATE FOR APPROVAL. CONTRACTOR SHALL ENSURE THAT CONSTRUCTION LOADS ON STEEL DECK DO NOT EXCEED SDI PUBLISHED CONSTRUCTION LOAD CRITERIA.
4. DESIGN ROOF DECK IN ACCORDANCE WITH THE FOLLOWING:
   A. YEILD STRENGTH, Fy = 50 KSI
   B. DEPTH: AS INDICATED
   C. MINIMUM SECTION MODULUS, Sp: 0.224 $INCHES^3$
   D. MINIMUM MOMENT OF INERTIA, In: 0.217 $INCHES^4$
5. DESIGN FLOOR DECK IN ACCORDANCE WITH THE FOLLOWING:
   A. YEILD STRENGTH, Fy = 50 KSI
   B. DEPTH: AS INDICATED
   C. MINIMUM SECTION MODULUS, Sp: 0.326 $INCHES^3$
   D. MINIMUM MOMENT OF INERTIA, In: 0.407 $INCHES^4$
6. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES, INSERTS, ETC., WITH SHOP DRAWINGS OF THE EQUIPMENT TO BE INSTALLED. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF PIPE SLEEVES. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF OPENINGS IN ROOF.

COLD-FORMED METAL FRAMING NOTES:

1. FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE "LIGHT GAGE COLD FORMED STEEL DESIGN MANUAL", LATEST EDITION AND THE AISI SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE FINAL DESIGN AND PERFORMANCE OF ALL COLD-FORMED METAL FRAMING. ALL SIZES, GAGES AND DESIGN REQUIREMENTS SHOWN ON THESE DRAWINGS ARE TO BE CONSIDERED MINIMUM REQUIREMENTS AND NOT FINAL REQUIREMENTS.
3. PROVIDE CLIPS, CONNECTIONS, STRAPPING AND/OR BRIDGING FOR TEMPORARY LATERAL BRACING AND ALL ITEMS NECESSARY FOR COMPLETE INSTALLATION.
4. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE – SHEET STEEL", LATEST EDITION AND PERFORMED BY CERTIFIED, LICENSED WELDER.
5. DETAILING AND FABRICATION OF ALL COLD-FORMED STRUCTURAL MEMBERS SHALL CONFORM TO THE AISI SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION.
6. TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED. WALL STUD BRIDGING SHALL BE INSTALLED IN A MANNER AS TO PREVENT ROTATION AND ALSO IN A MANNER TO PROVIDE RESISTANCE TO BOTH MINOR AXIS BENDING AND ROTATION. BRIDGING ROWS SHALL BE EQUALLY SPACED AT 4'-0" ON CENTER MAXIMUM, UNLESS APPROVED OTHERWISE.
7. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL COLD FORMED METAL FRAMING LOCATIONS AND REQUIREMENTS. COORDINATE LOCATIONS AND DESIGN FOR ALL WALL HUNG EQUIPMENT.
8. PROVIDE AND COORDINATE VERTICAL SLIP CONNECTIONS TO STRUCTURAL STEEL MEMBERS WHERE REQUIRED. ACCOUNT FOR A MINIMUM DEFLECTION OF 1 INCH UNLESS NOTED OTHERWISE.

POST-INSTALLED ANCHOR NOTES:

1. POST INSTALLED ANCHORS HAVE BEEN DESIGNED WITH HILTI ANCHORS (NOTED BELOW) AS THE BASIS OF DESIGN, UNLESS NOTED OTHERWISE ON CONTRACTOR DRAWINGS. INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
   A. EXPANSION ANCHORS: KWIK BOLT 3 OR TZ2
   B. SLEEVE ANCHORS: HIT-SC SLEEVE ANCHOR
   C. ADHESIVE ANCHORS: HIT HY-200
   D. SCREEN TUBE ANCHORS: HIT HY-270
2. CONTRACTOR MAY PROVIDE EQUIVALENT ANCHORS WITH SIZE AND FINISH AS NOTED AND EQUIVALENT SHEAR AND TENSION CAPACITIES AFTER MODIFICATION DUE TO EMBEDMENT, SPACING AND EDGE DISTANCES AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE
3. ALL ADHESIVE ANCHORS FOR REINFORCING SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS.
4. DESIGN ADHESIVE BOND STRENGTH FOR ADHESIVE ANCHORS IN CONCRETE HAS BEEN BASED ON ACI 355.4, TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS.
5. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318 D.9.2.4.

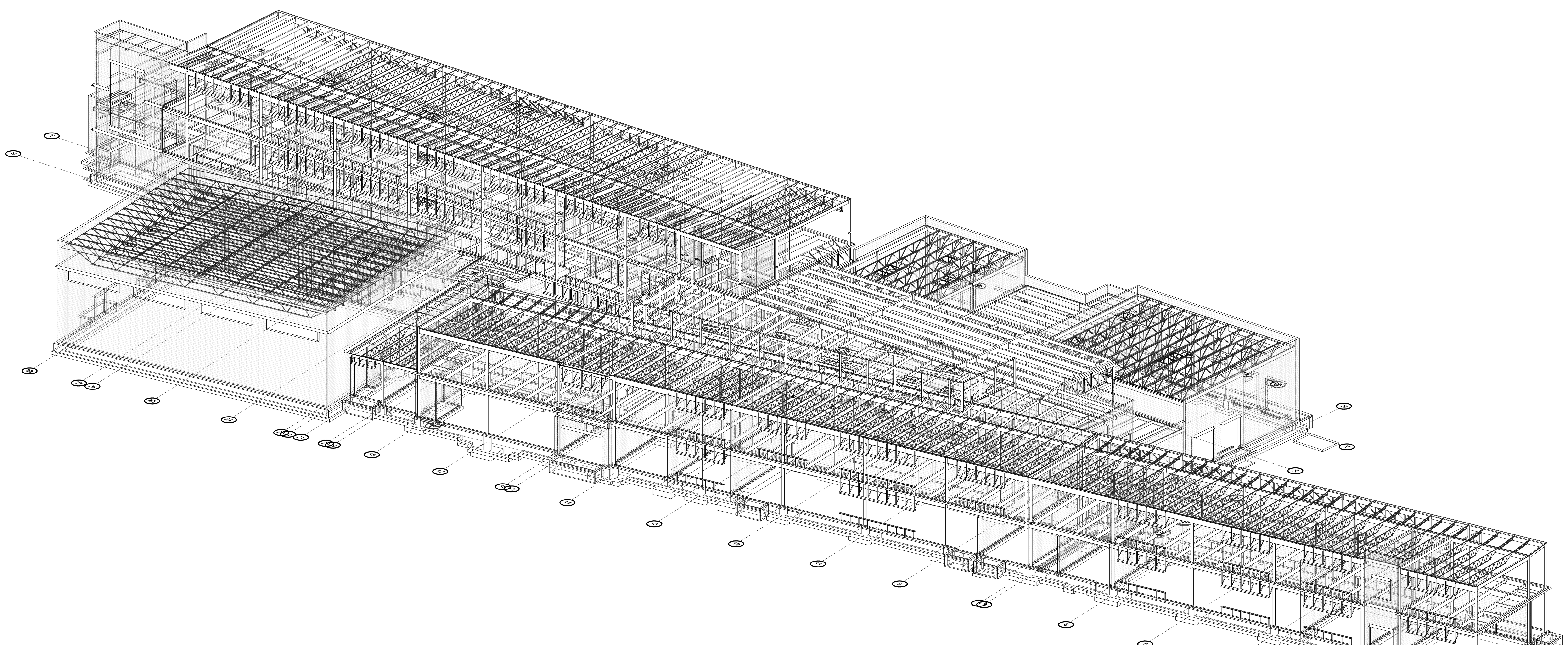
DELEGATED DESIGN NOTES:

PROVIDE DOCUMENTS, DOCUMENTATION, AND INFORMATION INDICATED PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE THE WORK IS PERFORMED.

1. TEMPORARY SHORING
2. SOIL BEARING AND SURFACE CONDITIONS FOR STRUCTURAL WORK ON EARTH OR FILL.
3. STRUCTURAL STEEL CONNECTIONS.
4. STAIRS, GUARDRAILS, AND RAILINGS
5. CONCRETE FORMWORK
6. COLD-FORMED STEEL (OR METAL) FRAMING (CFSF OR CFMF).
7. CAST STONE ACHORAGE TO STRUCTURAL BACKUP.
8. PERFORMANCE-BASED DESIGN.
9. ANCHORS AND FASTENERS IN-LIEU OF SPECIFIED FASTENERS.

SPECIAL INSPECTION NOTES:

1. SPECIAL INSPECTIONS WILL BE PERFORMED IN ACCORDANCE WITH THE STATEMENT OF SPECIAL INSPECTIONS.
2. OWNER, OR ARCHITECT/STRUCTURAL ENGINEER OF RECORD ACTING AS THE OWNER'S AGENT, SHALL DIRECTLY EMPLOY AND PAY FOR SERVICES OF THE SPECIAL INSPECTORS TO PERFORM REQUIRED SPECIAL INSPECTIONS.



1 ISOMETRIC VIEW LOOKING SOUTHEAST

NOTES:
1. *FOR REFERENCE PURPOSES ONLY. NOT FOR CONSTRUCTION*
2. *ISOMETRIC VIEW MAY NOT BE AN ACCURATE REPRESENTATION OF FRAMING CONDITIONS. SEE PLANS AND SECTIONS FOR ALL CONDITIONS.*

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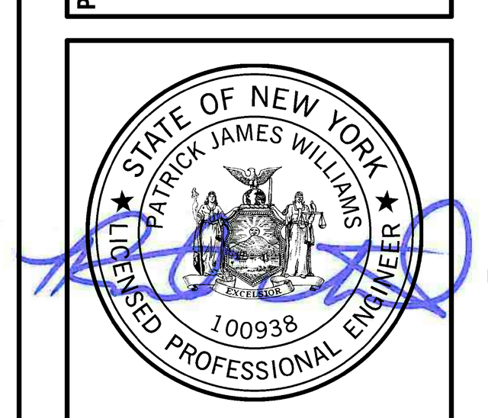
Consultant
PASSERO engineering architecture
STRUCTURAL

Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING



#	DATE	DESCRIPTION

Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
GENERAL NOTES

Sheet No.
CTE S001

CONSTRUCTION DOCUMENTS

STRUCTURAL DESIGN CRITERIA

		DESIGN CRITERIA
BUILDING DATA:		
LOCATION		201 FULLERTON AVE, NEWBURGH, NY 12550
BUILDING OCCUPANCY RISK CATEGORY		III
APPLICABLE BUILDING CODE		2020 BUILDING CODE OF NEW YORK STATE (IBC 2018)
GEOTECHNICAL INFORMATION:		
ALLOWABLE BEARING PRESSURE		3,000 PSF
FLOOR DEAD LOADING:		
SUPERIMPOSED FLOOR	DL1	15 PSF
ROOF DEAD LOADING:		
ROOF	DLr	25 PSF
FLOOR LIVE LOADING:		
FIRST FLOOR CORRIDORS / STAIRS / LOBBIES / GYMNASIUM / CAFETERIA	LL1	100 PSF
CORRIDORS ABOVE FIRST FLOOR	LL2	80 PSF
RESTROOMS	LL3	60 PSF
STORAGE, LIGHT	LL4	125 PSF
ELEVATOR MACHINE ROOM	LL5	150 PSF
VAULTS, IN OFFICES	LL6	250 PSF
CLASSROOMS	LL7	40 PSF
OFFICES	LL8	50 PSF
LABORATORIES	LL9	150 PSF
COMPUTER ROOMS	LL10	150 PSF
KITCHENS	LL11	150 PSF
FIRST FLOOR COOLER / FREEZER	LL12	150 PSF
SECOND FLOOR COOLER / FREEZER	LL13	250 PSF
MEP ROOMS	LL14	125 PSF
PARTITIONS	LL15	15 PSF
ROOF LIVE LOADING:		
ROOF	Llr	20 PSF
RAIN LIVE LOADING:		
RAIN INTENSITY	i	2.8 INCHES/HR
STATIC HEAD	Ds	2.75 INCHES
FLOW RATE	Q	113.6 GAL/MIN
HYDRAULIC HEAD	Dh	1.8 INCHES
PONDING HEAD	Dp	1 INCH
DESIGN RAIN LOAD		30 PSF*
		* NOTE: DESIGN RAIN LOAD INCLUDES PONDING ON STRUCTURAL STEEL AND OPEN WEB STEEL JOISTS.
SNOW LOADING:		
SNOW IMPORTANCE FACTOR	Is	1.1
GROUND SNOW LOAD	Pg	30.0 PSF
SNOW EXPOSURE FACTOR	Ce	1.0
ROOF THERMAL FACTOR	Ct	1.0
FLAT ROOF SNOW LOAD	Pf	23.1 PSF
DRIFTING SNOW		AS REQUIRED PER ASCE 7-16, SEE SHEET S007.
WIND LOADING (MAIN WIND FORCE RESISTING SYSTEM):		
ANALYSIS PROCEDURE		DIRECTIONAL PROCEDURE
ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)	Vult	120 mph
NOMINAL DESIGN WIND SPEED (3-SECOND GUST)	Vasd	93 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 SHEETS S005 AND S006
SEISMIC LOADING (GENERAL):		
SEISMIC IMPORTANCE FACTOR	Ie	1.25
MAPPED SHORT PERIOD SPECTRAL RESPONSE ACELERATION	Ss	0.231g
MAPPED 1-SEC PERIOD SPECTRAL RESPONSE ACELERATION	S1	0.057g
SHORT PERIOD DESIGN SPECTRAL RESPONSE ACELERATION	Sds	0.200g
1-SEC PERIOD DESIGN SPECTRAL RESPONSE ACELERATION	Sd1	0.057g
SOIL SITE CLASS		C
SEISMIC DESIGN CATEGORY		B
ANALYSIS PROCEDURE		EQUIVALENT LATERAL FORCE
SEISMIC LOADING (AREA 1):		
SEISMIC FORCE RESISTING SYSTEM		INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
RESPONSE MODIFICATION FACTOR	R	4.0
DEFLECTION AMPLIFICATION FACTOR	Cd	4.0
OVERSTRENGTH FACTOR	Oo	2.5
SEISMIC RESPONSE COEFFICIENT	Cs	0.059
DESIGN BASE SHEAR	V	96 KIP
SEISMIC LOADING (AREA 2):		
SEISMIC FORCE RESISTING SYSTEM		INTERMEDIATE REINFORCED MASONRY SHEAR WALLS + STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
RESPONSE MODIFICATION FACTOR	R	3.0 (GOVERNING)
DEFLECTION AMPLIFICATION FACTOR	Cd	4.0 (GOVERNING)
OVERSTRENGTH FACTOR	Oo	3.0 (GOVERNING)
SEISMIC RESPONSE COEFFICIENT	Cs	0.083
DESIGN BASE SHEAR	V	437 KIP
SEISMIC LOADING (AREA 3):		
SEISMIC FORCE RESISTING SYSTEM		INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
RESPONSE MODIFICATION FACTOR	R	4.0
DEFLECTION AMPLIFICATION FACTOR	Cd	4.0
OVERSTRENGTH FACTOR	Oo	2.5
SEISMIC RESPONSE COEFFICIENT	Cs	0.063
DESIGN BASE SHEAR	V	295 KIP
SEISMIC LOADING (GYM):		
SEISMIC FORCE RESISTING SYSTEM		INTERMEDIATE REINFORCED MASONRY SHEAR WALLS (BEARING WALL SYSTEM)
RESPONSE MODIFICATION FACTOR	R	3.5
DEFLECTION AMPLIFICATION FACTOR	Cd	2.25
OVERSTRENGTH FACTOR	Oo	2.5
SEISMIC RESPONSE COEFFICIENT	Cs	0.075
DESIGN BASE SHEAR	V	117 KIP

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 SLAB-ON-GRADE	4,000	0.50	N/A	-	-
FNDN WALLS, PIERS, EXT SLAB-ON-GRADE	4,500	0.45	6 +/- 1.5	-	-
LW CONCRETE SLAB-ON-DECK	4,000	0.50	5 +/- 1.5	ASTM C330	113 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.

FOOTING SCHEDULE

MARK	FOOTING DIMENSIONS			BOTTOM REINFORCING		TOP REINFORCING	REMARKS
	LENGTH	WIDTH	DEPTH	LONGITUDINAL	TRANSVERSE		
F4	4' - 0"	4' - 0"	1' - 0"	(6) #4 BARS	(6) #4 BARS	-	-
F5	5' - 0"	5' - 0"	1' - 0"	(7) #4 BARS	(7) #4 BARS	-	-
F6	6' - 0"	6' - 0"	1' - 0"	(6) #5 BARS	(6) #5 BARS	-	-
F6.1	6' - 0"	9' - 0"	1' - 0"	(7) #6 BARS	(10) #5 BARS	-	
F7	7' - 0"	7' - 0"	1' - 6"	(9) #5 BARS	(9) #5 BARS	-	-
F8	8' - 0"	8' - 0"	1' - 6"	(8) #6 BARS	(8) #6 BARS	-	-
F8.1	8' - 0"	11' - 0"	1' - 6"	(9) #6 BARS	(11) #6 BARS	-	
F9	9' - 0"	9' - 0"	1' - 6"	(10) #6 BARS	(10) #6 BARS	-	-
F10	10' - 0"	10' - 0"	1' - 6"	(9) #7 BARS	(9) #7 BARS	-	-
F11	11' - 0"	11' - 0"	2' - 0"	(10) #7 BARS	(10) #7 BARS	-	-
F12	12' - 0"	12' - 0"	2' - 0"	(11) #7 BARS	(11) #7 BARS	-	-
F13	13' - 0"	13' - 0"	2' - 0"	(13) #7 BARS	(13) #7 BARS	-	-

WALL FOOTING SCHEDULE

MARK	FOOTING DIMENSIONS		BOTTOM REINFORCING		TOP REINFORCING	REMARKS
	WIDTH	DEPTH	LONGITUDINAL	TRANSVERSE		
WF24	2' - 0"	1' - 0"	(3) #5 BARS	#5 BARS @ 12" OC	-	-
WF30	2' - 6"	1' - 0"	(3) #5 BARS	#5 BARS @ 12" OC	-	-
WF36	3' - 0"	1' - 0"	(4) #5 BARS	#5 BARS @ 12" OC	-	-
WF42	3' - 6"	1' - 0"	(4) #5 BARS	#5 BARS @ 12" OC	-	-
WF48	4' - 0"	1' - 0"	(5) #5 BARS	#5 BARS @ 12" OC	-	-
WF60	5' - 0"	1' - 6"	(6) #6 BARS	#6 BARS @ 12" OC	(6) #6 BARS	3' - 6" EXTENSIONS PAST WALL ENDS AT SHEAR WALL LOCATIIONS, TYPICAL
WF78	6' - 6"	2' - 0"	(7) #6 BARS	#6 BARS @ 12" OC	(7) #6 BARS LONG, #6 BARS @ 12" OC TRANSVERSE	3' - 0" EXTENSIONS PAST WALL ENDS AT SHEAR WALL LOCATIIONS, TYPICAL
WF84	7' - 0"	2' - 0"	(8) #6 BARS	#6 BARS @ 12" OC	(8) #6 BARS LONG, #6 BARS @12" OC TRANSVERSE	5' - 0" EXTENSIONS PAST WALL ENDS AT SHEAR WALL LOCATIIONS, TYPICAL

FOUNDATION WALL SCHEDULE

MARK	TYPE	THICKNESS	WALL REINFORCING		REMARKS
			HORIZONTAL	VERTICAL	
CW8	CONC FOUNDATION WALL	8"	#5 BARS @ 12" OC	#5 BARS @ 12" OC	-
CW12	CONC FOUNDATION WALL	1' - 0"	#5 BARS @ 12" OC, EF	#5 BARS @ 12" OC, EF	-
CW15	CONC FOUNDATION WALL	1' - 3"	#5 BARS @ 12" OC, EF	#5 BARS @ 12" OC, EF	-
CW16	CONC FOUNDATION WALL	1' - 4"	#5 BARS @ 12" OC, EF	#5 BARS @ 12" OC, EF	-
CW17	CONC FOUNDATION WALL	1' - 5"	#5 BARS @ 12" OC, EF	#5 BARS @ 12" OC, EF	-
CW21	CONC FOUNDATION WALL	1' - 9"	#5 BARS @ 12" OC, EF	#5 BARS @ 12" OC, EF	-
CW22	CONC FOUNDATION WALL	1' - 10"	#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 WALL	7 5/8"	9 GA LADDER TYP REINF @ 16" OC	#5 BARS @ 32" OC	(2) #5 BARS @ 10' - 0" OC, MAX	SEE SECTIONS FOR ADDITIONAL BOND BEAM LOCATIONS
MW8.1	EXTERIOR / SHAFT WALL	7 5/8"	9 GA LADDER TYP REINF @ 16" OC	#5 BARS @ 8" OC	(2) #5 BARS @ 5'-0" OC, MAX	SEE SECTIONS FOR ADDITIONAL BOND BEAM LOCATIONS
MW8F	2 HR MASONRY FIRE WALL	7 5/8"	9 GA LADDER TYP REINF @ 16" OC	#5 BARS @ 32" OC	(2) #5 BARS @ 10' - 0" OC, MAX	2 HR FIREWALL
MW8FS	MASONRY SHEAR WALL/FIRE WALL	7 5/8"	9 GA LADDER TYP REINF @ 16" OC	#5 BARS @ 32" OC	(2) #5 BARS @ 5' - 0" OC, MAX	SEE SECTIONS FOR ADDITIONAL BOND BEAM LOCATIONS
MW8S.1	MASONRY SHEAR WALL	7 5/8"	9 GA LADDER TYP REINF @ 16" OC	#5 BARS @ 32" OC	(2) #5 BARS @ 5' - 0" OC, MAX	SEE SECTIONS FOR ADDITIONAL BOND BEAM LOCATIONS
MW8S.2	MASONRY SHEAR WALL	7 5/8"	9 GA LADDER TYP REINF @ 16" OC	#5 BARS @ 16" OC	(2) #5 BARS @ 5' - 0" OC, MAX	SEE SECTIONS FOR ADDITIONAL BOND BEAM LOCATIONS
MW8S.3	MASONRY SHEAR WALL	7 5/8"	9 GA LADDER TYP REINF @ 16" OC	#5 BARS @ 8" OC	(2) #5 BARS @ 5' - 0" OC, MAX	SEE SECTIONS FOR ADDITIONAL BOND BEAM LOCATIONS
MW10F	2 HR MASONRY FIRE WALL	9 5/8"	9 GA LADDER TYP REINF @ 16" OC	#5 BARS @ 32" OC	(2) #5 BARS @ 10' - 0" OC, MAX	2 HR FIREWALL
MW12S	MASONRY BEARING / SHEAR WALL	11 5/8"	9 GA LADDER TYP REINF @ 16" OC	(2) #5 BARS @ 32" OC	(2) #5 BARS @ 5' - 0" OC, MAX	SEE SECTIONS FOR ADDITIONAL BOND BEAM LOCATIONS

SLAB-ON-GRADE SCHEDULE

MARK	TYPE	THICKNESS	SLAB REINFORCING	REMARKS
SOG1	TYPICAL INTERIOR SLAB ON GRADE	5"	6x6 W2.9xW2.9 WWF	-
SOG2	WORKSHOP FLOORS	6"	#5 BARS @ 12" OC	-
SOG3	EXTERIOR COURTYARD SLAB	5"	#4 BARS @ 12" 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	6x6 W2.1xW2.1 WWF	5/8" DIA PUDDLE WELDS @ 36/4 PATTERN	#10 SCREWS @ 12" OC	SHOP PRIME UNDERSIDE OF DECK, EXECPT WHERE DECK IS TO RECIEVE SPRAY APPLIED FIREPROOFING OR ACOUSTIC TREATMENT (COORD WITH ARCH FOR LOCATIONS)

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 PATTERNS	#12 SCREWS @ 12" OC	G90 FINISH, SHOP PRIME UNDERSIDE OF DECK, EXECPT WHERE DECK IS TO RECIEVE SPRAY APPLIED FIREPROOFING OR ACOUSTIC TREATMENT (COORD WITH ARCH FOR LOCATIONS)
RD1a	1.5B-36 GRADE 50 METAL DECK	20	5/8" DIA PUDDLE WELDS @ 36/9 PATTERN	#12 SCREWS @ 6" OC	SHADED REGION INDICATES AREA WHERE THIS ATTACHMENT PATTERN APPLIES. PROVIDE G90 FINISH AND SHOP PRIME UNDERSIDE OF DECK, EXECPT WHERE DECK IS TO RECIEVE SPRAY APPLIED FIREPROOFING OR ACOUSTIC TREATMENT (COORD WITH ARCH FOR LOCATIONS)
RD2	1.5B-36 GRADE 50 METAL DECK	20	3/4" DIA PUDDLE WELDS @ 36/7 PATTERNS	#12 SCREWS @ 12" OC	G90 FINISH, UL P710, SPRAY FIREPROOFED

CONCRETE REINF SPLICE & DEVELOPMENT LENGTHS SCHEDULE

f'c = 4,000 psi

BAR SIZE	LAP SPLICE LENGTHS (IN.)					DEVELOPMENT LENGTHS (IN.)			
	TENSION LAP LENGTH								
	TOP BARS		OTHER		COMP.	TENSION	COMP.	HOOKED
CLASS	A	B	A	B				
#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

f'c = 4,500 psi

BAR SIZE	LAP SPLICE LENGTHS (IN.)					DEVELOPMENT LENGTHS (IN.)			
	TENSION LAP LENGTH								
	TOP BARS		OTHER		COMP.	TENSION	COMP.	HOOKED
CLASS	A	B	A	B				
#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 LIGHT WEIGHT CONCRETE, DIVIDE VALUES BY $\lambda = 0.75$.
6. SPACING REQUIREMENTS AND END ANCHORAGE SHALL BE SPACED PER THE REQUIREMENTS OF ACI-318.

REINFORCED CONCRETE COVER SCHEDULE

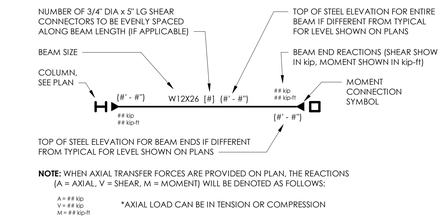
STRUCTURAL ELEMENT		*MIN COVER (IN)*
CAST AGAINST EARTH		3"
EXPOSED TO EARTH OR WEATHER	#5 BARS AND SMALLER, WWF	1-1/2"
	#6 BARS AND LARGER	2"
NOT EXPOSED TO EARTH OR WEATHER	SLABS & WALLS: #11 BARS AND SMALLER, WWF	3/4"
	SLABS & WALLS: #14 BARS AND LARGER	1-1/2"
	BEAMS AND COLUMNS	1-1/2"

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	CENTER TO CENTER
CFMF	COLD FORMED METAL FRAMING
CIP	CAST-IN-PLACE
C.J	CONTROL JOINT
C.JP	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	EMBEDMENT
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
FS	FAR SIDE
FS	FOOTING STEP
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR/ CONSRTUCTION MANAGER
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

STRUCTURAL ABBREVIATION LEGEND

IF	INSIDE FACE
INFO	INFORMATION
INSUL	INSULATION
INTMD	INTERMEDIATE
JT	JOINT
K	KIP (1000 POUNDS)
KLF	KIPS PER LINEAR FOOT
KSI	KIPS PER SQUARE INCH
LB/LBS	POUNDS
LF	LINEAR FOOT,FEET
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(ED)(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



NOTE: WHEN AXIAL TRANSFER FORCES ARE PROVIDED ON PLAN, THE REACTIONS (A = AXIAL, V = SHEAR, M = MOMENT) WILL BE DENOTED AS FOLLOWS:

A= ## kip
V= ## kip
M= ## kip-ft

*AXIAL LOAD CAN BE IN TENSION OR COMPRESSION

TYPICAL BEAM PLAN ANNOTATIONS

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Project Title
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Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
DESIGN CRITERIA AND SCHEDULES

Sheet No.
CTE S002

CONSTRUCTION DOCUMENTS

Autodesk Docs://NECSD - New CTE Bldg/NECSD CTE - Struct.rvt

COLUMN SCHEDULE - AREA 1

Levels: TOS 3RD FLR/ROOF 31' - 6 1/2"; TOS 2ND FLR 15' - 6 1/2"; TO SOG 0"

Column Locations	Column	BASE PLATE MARK	BASE PLATE THICKNESS	ANCHOR BOLT MARK
A-1	HSS7X7X3/8	BP3	1"	AB2
A-2	HSS6X6X3/8	BP2	1"	AB2
A-3	HSS6X6X3/8	BP2	1"	AB2
A-4	HSS8X8X3/8	BP4	1 1/4"	AB3
A-5	HSS8X8X3/8	BP4	1 1/4"	AB3
A-6	HSS8X8X3/8	BP4	1 1/4"	AB3
A-7	HSS7X7X3/8	BP3	1"	AB2
A-8	HSS6X6X3/8	BP2	1"	AB2
D-1	HSS7X7X3/8	BP3	1"	AB2
D-2	HSS7X7X3/8	BP3	1"	AB2
D-3	HSS7X7X3/8	BP3	1"	AB2
D-4	HSS8X8X3/8	BP4	1 1/2"	AB4
D-5	HSS8X8X3/8	BP4	1 1/2"	AB4
D-6	HSS8X8X1/2	BP4	1 1/2"	AB4
D-7	HSS7X7X3/8	BP3	1"	AB2
D-8	HSS7X7X3/8	BP3	1"	AB2
E-1	HSS5X5X3/8	BP1	3/4"	AB1
E-2	HSS5X5X3/8	BP1	3/4"	AB1
E-3	HSS5X5X3/8	BP1	3/4"	AB1
E-4	HSS5X5X3/8	BP1	7/8"	AB2
E-5	HSS5X5X3/8	BP1	7/8"	AB2
E-6	HSS5X5X3/8	BP1	7/8"	AB2
E-7	HSS5X5X3/8	BP1	7/8"	AB2
E-8	HSS6X6X3/8	BP2	7/8"	AB2

STEEL COLUMN SCHEDULE NOTES:
1. COLUMNS INDICATED TO BE FIREPROOFED "FP" ONLY REQUIRE FIREPROOFIING FROM BOTTOM OF SECOND FLOOR DECKING DOWN TO BASE PLATE.
2. TOP OF COLUMN ELEVATION SHALL FOLLOW SLOPED ROOF ELEVATIONS AS INDICATED ON ROOF FRAMING PLANS, UNLESS NOTED OTHERWISE.
3. COLUMN SPLICES SHOWN ARE AT CONTRACTOR'S OPTION.

COLUMN SCHEDULE LEGEND

Symbol	Description
⊥	DENOTES COLUMN BASEPLATE
(splice symbol)	DENOTES OPTIONAL COLUMN SPLICE
(beam break symbol)	DENOTES COLUMN BREAKS AT BEAM
FP	DENOTES FIREPROOFING TREATMENT REQUIRED ON COLUMN (DO NOT SHOP PRIME). REFER TO ARCH FOR TYPE AND HOURLY RATING

COLUMN SCHEDULE - AREA 2

Levels: TOS HIGH ROOF 48' - 0"; TOS 3RD FLR/ROOF 31' - 6 1/2"; TOS LOW ROOF 24' - 11"; TOS 2ND FLR 15' - 6 1/2"; TO SOG 0"

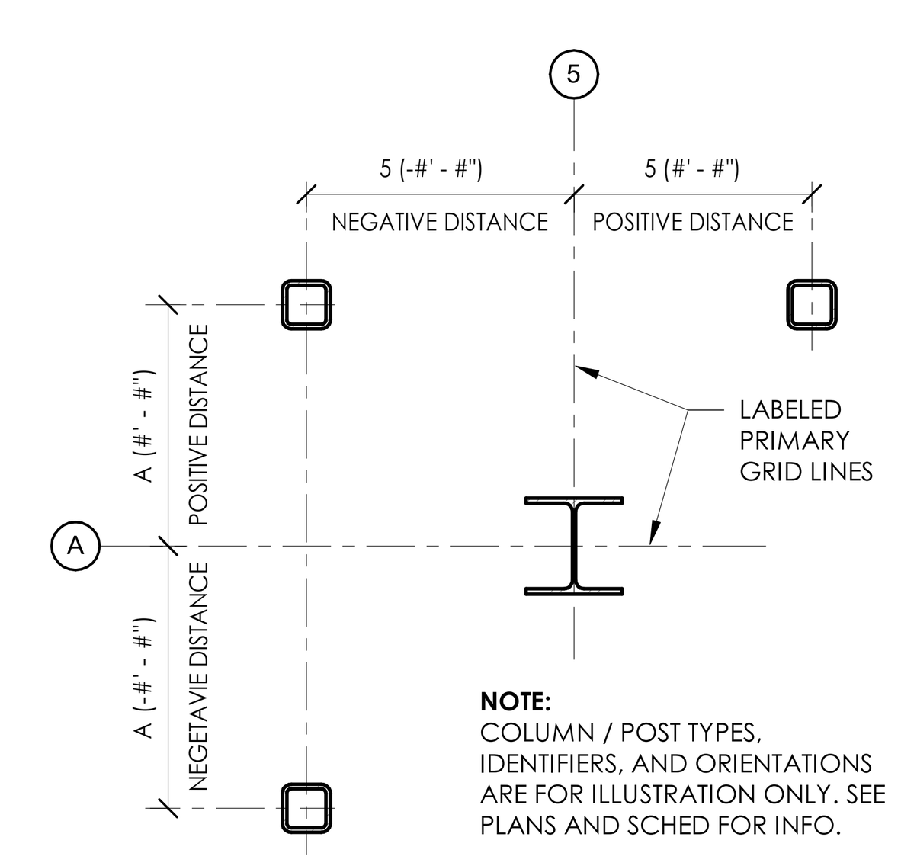
INDICATES COLUMN SPLICE LOCATION, TYP (4'-0" TYP)

Column Locations	Column	BASE PLATE MARK	BASE PLATE THICKNESS	ANCHOR BOLT MARK
A-9	HSS7X7X3/8	BP3	1 1/4"	AB3
A-11	HSS8X8X3/8	BP4	1 1/4"	AB3
A-12	HSS8X8X3/8	BP4	1 1/4"	AB3
A-13	HSS7X7X3/8	BP3	1 1/4"	AB3
A-14	HSS7X7X3/8	BP3	1 1/8"	AB3
A(2' - 1")-14(1' - 3")	HSS5X5X3/8	BP1	3/4"	AB1
A-15	HSS7X7X3/8	BP3	1 1/8"	AB3
A(2' - 1")-15(-1' - 3")	HSS5X5X3/8	BP1	3/4"	AB1
D-9	HSS8X8X3/8	BP4	1 1/4"	AB3
D-11	HSS8X8X1/2	BP4	1 1/2"	AB4
D-12	HSS8X8X1/2	BP4	1 1/2"	AB4
D-13	HSS8X8X3/8	BP4	1 1/2"	AB4
D-14	HSS8X8X3/8	BP4	1 1/4"	AB3
D-15	HSS8X8X3/8	BP4	1 1/4"	AB3
E-9	HSS7X7X3/8	BP3	1 1/8"	AB3
E-11	HSS8X8X1/2	BP4	1 1/2"	AB4
E-12	HSS8X8X1/2	BP4	1 1/2"	AB4
E-13	HSS8X8X1/2	BP4	1 1/2"	AB4
E-14	HSS8X8X1/2	BP4	1 1/2"	AB4
E-16	HSS7X7X3/8	BP3	1 1/4"	AB3
K-9	HSS7X7X3/8	BP3	1 1/8"	AB3
K-29	HSS5X5X3/8	BP1	3/4"	AB1
L-16	HSS7X7X3/8	BP3	1 1/4"	AB3
M-11	HSS8X8X1/2	BP4	1 1/2"	AB4
M-12	HSS8X8X1/2	BP4	1 1/2"	AB4
M-13	HSS8X8X3/8	BP4	1 1/2"	AB4
M-39	HSS8X8X3/8	BP4	1 1/4"	AB3
P-33	HSS9X9X1/2	BP5	1 3/4"	AB4
P-37	HSS9X9X5/8	BP6	1 3/4"	AB4
P-39	HSS8X8X1/2	BP4	1 1/4"	AB3
R-29	HSS6X6X3/8	BP2	3/4"	AB1
R-31	HSS8X8X1/2	BP4	1 1/2"	AB4
S-40	HSS8X8X1/2 / HSS8X8X1/2	BP4	1 1/2"	AB4
U-29	HSS6X6X3/8	BP2	7/8"	AB2
U-31	HSS8X8X1/2	BP4	1 1/2"	AB4
U-33	HSS9X9X5/8	BP6	2"	AB4
U-37	HSS9X9X5/8	BP6	2"	AB4

COLUMN SCHEDULE - AREA 2

Levels: TOS HIGH ROOF 48' - 0"; TOS 3RD FLR/ROOF 31' - 6 1/2"; TOS LOW ROOF 24' - 11"; TOS 2ND FLR 15' - 6 1/2"; TO SOG 0"

Column Locations	Column	BASE PLATE MARK	BASE PLATE THICKNESS	ANCHOR BOLT MARK
U-39	HSS8X8X1/2	BP4	1 1/2"	AB4
W-40	HSS8X8X3/8 / HSS8X8X3/8	BP4	1 1/4"	AB3
X-29	HSS5X5X3/8	BP1	3/4"	AB1
X-33	HSS6X6X3/8	BP2	1"	AB2
X-37	HSS6X6X3/8	BP2	1"	AB2
X-39	HSS5X5X3/8	BP1	3/4"	AB1
Y-29	HSS6X6X3/8	BP2	3/4"	AB1
Y-30	HSS6X6X3/8	BP2	1"	AB2
Y-32	HSS6X6X3/8	BP2	1"	AB2
Y-33	HSS6X6X3/8	BP2	7/8"	AB2
Y-36	HSS5X5X3/8	BP1	3/4"	AB1
Y-37	HSS6X6X3/8	BP2	7/8"	AB2
Y-38	HSS6X6X3/8	BP2	3/4"	AB1
Y-39	HSS6X6X3/8	BP2	3/4"	AB1



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

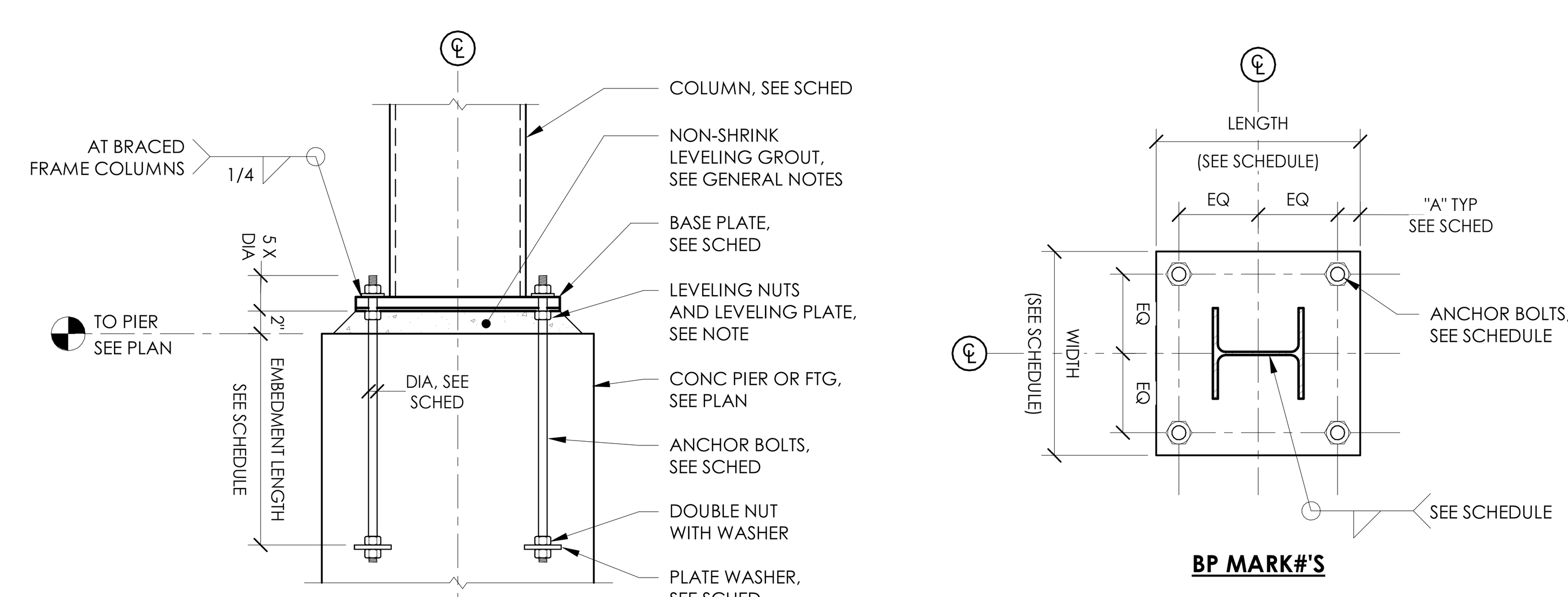
1 TYPICAL GRID OFFSET DETAIL
N.T.S.

BASE PLATE SCHEDULE

MARK	BASE PLATE DIMENSIONS			COL WELD SIZE	REMARKS
	LENGTH	WIDTH	EDGE DISTANCE "A"		
BP1	1' - 0"	1' - 0"	2"	3/16"	
BP2	1' - 2"	1' - 2"	2 1/4"	3/16"	
BP3	1' - 3"	1' - 3"	2 1/4"	3/16"	
BP4	1' - 5"	1' - 5"	2 1/2"	3/16"	
BP5	1' - 8"	1' - 8"	3"	1/4"	
BP6	1' - 9"	1' - 9"	3 1/4"	1/4"	
BP7	1' - 10"	1' - 10"	3 1/4"	1/4"	

ANCHOR BOLT SCHEDULE

MARK	ANCHOR BOLT PROPERTIES		PLATE WAHSER PROPERTIES	
	DIA	EMBEDMENT	MIN DIMENSIONS	MIN THICKNESS
AB1	3/4"	9"	2"	1/4"
AB2	1"	1' - 0"	3"	3/8"
AB3	1 1/4"	1' - 0"	3 1/2"	1/2"
AB4	1 1/2"	1' - 0"	4"	1/2"



NOTES:
1. LEVELING DEVICES ARE CONTRACTOR MEANS AND METHODS. CONTRACTOR TO PROVIDE MEANS AND METHODS FOR LEVELING/PLUMBING/RACKING THE STEEL FRAME. DO NOT GROUT UNDER BASE PLATES UNTIL STEEL FRAME IS LEVEL/PLUMB/RACKED.
2. WHERE ANCHOR ROD PROJECTIONS EXTEND BEYOND TOP OF SLAB, CONTRACTOR TO CUT PROJECTION TO 3/4" BELOW TOP OF SLAB ELEVATION AFTER ERECTION AND PRIOR TO POURING SLAB.

2 BASE PLATE DIAGRAM AND SCHEDULE
N.T.S.

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Consultant: PASSERO engineering architecture — STRUCTURAL

Project Title: NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

STATE OF NEW YORK · PATRICK JAMES WILLIAMS · 100938 · LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title: COLUMN SCHEDULE

Sheet No.: CTE S003

CONSTRUCTION DOCUMENTS

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COLUMN SCHEDULE - AREA 3

TOS HIGH ROOF																																				TOS HIGH ROOF
48' - 0" TOS 3RD FLR/ROOF																						INDICATES COLUMN SPLICE LOCATION, TYP TYP 4'-0"	HSS6X6X3/8	HSS7X7X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X16X1/2	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X1/2	HSS8X8X1/2	HSS8X8X3/8	HSS9X9X5/8	HSS9X9X1/2	HSS9X9X5/8	48' - 0" TOS 3RD FLR/ROOF
31' - 6 1/2" TOS 2ND FLR																												HSS8X16X1/2			HSS8X8X1/2						31' - 6 1/2" TOS 2ND FLR
15' - 6 1/2" TO SOG	HSS7X7X3/8	HSS7X7X3/8	HSS5X5X3/8 FP	HSS5X5X3/8 FP	HSS8X8X3/8	HSS7X7X3/8	HSS5X5X3/8 FP	HSS5X5X3/8 FP	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8 FP	HSS5X5X3/8 FP	HSS5X5X3/8 FP	HSS5X5X3/8 FP	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8 FP	HSS5X5X3/8 FP	HSS6X6X3/8	HSS7X7X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X8X3/8	HSS8X16X1/2	HSS8X8X3/8	HSS8X8X3/8	HSS7X7X3/8	HSS8X8X1/2	HSS8X8X3/8	HSS9X9X5/8	HSS9X9X1/2	HSS9X9X5/8	15' - 6 1/2" TO SOG
0"																																					0"
BASE PLATE MARK	BP3	BP3	BP1	BP1	BP4	BP3	BP1	BP1	BP1	BP1	BP1	BP1	BP1	BP1	BP1	BP1	BP1	BP1	BP1	BP1	BP1	BP1	BP2	BP3	BP4	BP4	BP4	BP4	BP4	BP4	BP3	BP4	BP4	BP6	BP5	BP6	
BASE PLATE THICKNESS	1 1/4"	1 1/8"	3/4"	3/4"	1 1/4"	1 1/8"	3/4"	3/4"	7/8"	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 1/8"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/4"	1 1/2"	1 1/2"	2"	1 3/4"	2"	
ANCHOR BOLT MARK	AB3	AB3	AB1	AB1	AB3	AB3	AB1	AB1	AB2	AB1	AB1	AB1	AB1	AB1	AB1	AB1	AB1	AB1	AB1	AB1	AB1	AB1	AB1	AB1	AB3	AB3	AB4	AB4	AB4	AB4	AB3	AB4	AB4	AB4	AB4	AB4	
Column Locations	A-17	A-18	B-19	C-21	D-17	D-18	D-19	D-21	E-17	E-18	E-19	E-21	F-21	G-22	H-23	H-24	H-25	H-26	H-28	J-27	J-50	L-22	L-47	N-40	N-41	N-43	N-45	N-48	N-49	N-50	N-51	N-52	T-41	T-42	T-44	T-46	T-48	

COLUMN SCHEDULE - AREA 3

TOS HIGH ROOF																	TOS HIGH ROOF
48' - 0" TOS 3RD FLR/ROOF	HSS10X10X5/8	HSS10X10X5/8	HSS10X10X5/8						HSS9X9X1/2	HSS9X9X5/8	HSS9X9X5/8	HSS9X9X1/2	HSS9X9X1/2	HSS9X9X1/2	HSS9X9X5/8	HSS9X9X1/2	48' - 0" TOS 3RD FLR/ROOF
31' - 6 1/2" TOS 2ND FLR	HSS10X10X5/8	HSS10X10X5/8	HSS10X10X5/8	HSS9X9X5/8	HSS7X7X3/8				HSS9X9X1/2	HSS9X9X5/8	HSS9X9X5/8	HSS9X9X1/2	HSS9X9X1/2	HSS9X9X1/2	HSS9X9X5/8	HSS9X9X1/2	31' - 6 1/2" TOS 2ND FLR
15' - 6 1/2" TO SOG					HSS7X7X3/8	HSS5X5X3/8	HSS5X5X3/8	HSS5X5X3/8								HSS6X6X3/8	15' - 6 1/2" TO SOG
0"																	0"
	BP7	BP7	BP7	BP6	BP3	BP1	BP1	BP1	BP5	BP6	BP6	BP5	BP5	BP5	BP6	BP5	BP2	
	2"	2"	2"	2"	1 1/4"	3/4"	3/4"	3/4"	1 3/4"	2"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	2"	1 3/4"	3/4"	
	AB4	AB4	AB4	AB4	AB3	AB1	AB1	AB1	AB4	AB4	AB4	AB4	AB4	AB4	AB4	AB4	AB1	
Column Locations	T-49	T-50	T-51	T-52	T-53	T-54	V-53	V-54	W-41	W-43	W-45	W-48	W-49	W-50	W-51	W-52	W-53	

STEEL COLUMN SCHEDULE NOTE:
1. COLUMNS INDICATED TO BE FIREPROOFED "FP" ONLY REQUIRE FIREPROOFIING FROM BOTTOM OF SECOND FLOOR DECKING DOWN TO BASE PLATE.
2. TOP OF COLUMN ELEVATION SHALL FOLLOW SLOPED ROOF ELEVATIONS AS INDICATED ON ROOF FRAMING PLANS, UNLESS NOTED OTHERWISE.
3. COLUMN SPLICES SHOWN ARE AT CONTRACTOR'S OPTION.

COLUMN SCHEDULE LEGEND

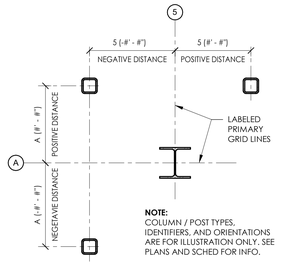
⊥	DENOTES COLUMN BASEPLATE
⫫	DENOTES OPTIONAL COLUMN SPLICE
⫫	DENOTES COLUMN BREAKS AT BEAM
FP	DENOTES FIREPROOFING TREATMENT REQUIRED ON COLUMN (DO NOT SHOP PRIME). REFER TO ARCH FOR TYPE AND HOURLY RATING

BASE PLATE SCHEDULE

MARK	BASE PLATE DIMENSIONS			COL WELD SIZE	REMARKS
	LENGTH	WIDTH	EDGE DISTANCE "A"		
BP1	1' - 0"	1' - 0"	2"	3/16"	
BP2	1' - 2"	1' - 2"	2 1/4"	3/16"	
BP3	1' - 3"	1' - 3"	2 1/4"	3/16"	
BP4	1' - 5"	1' - 5"	2 1/2"	3/16"	
BP5	1' - 8"	1' - 8"	3"	1/4"	
BP6	1' - 9"	1' - 9"	3 1/4"	1/4"	
BP7	1' - 10"	1' - 10"	3 1/4"	1/4"	

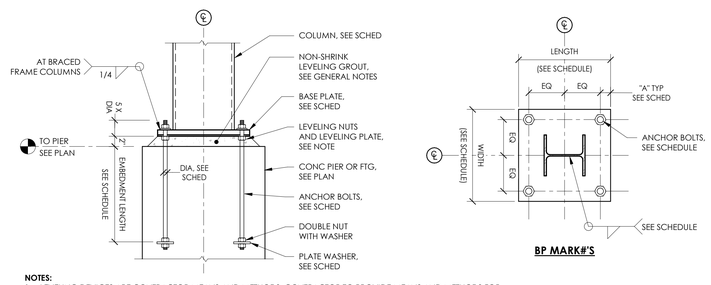
ANCHOR BOLT SCHEDULE

MARK	ANCHOR BOLT PROPERTIES		PLATE WAHSER PROPERTIES	
	DIA	EMBEDMENT	MIN DIMENSIONS	MIN THICKNESS
AB1	3/4"	9"	2"	1/4"
AB2	1"	1' - 0"	3"	3/8"
AB3	1 1/4"	1' - 0"	3 1/2"	1/2"
AB4	1 1/2"	1' - 0"	4"	1/2"



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

1 TYPICAL GRID OFFSET DETAIL
N.T.S.



BP MARK#'S

NOTES:
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2. WHERE ANCHOR ROD PROJECTIONS EXTEND BEYOND TOP OF SLAB, CONTRACTOR TO CUT PROJECTION TO 3/4" BELOW TOP OF SLAB ELEVATION AFTER ERECTION AND PRIOR TO POURING SLAB.

2 BASE PLATE DIAGRAM AND SCHEDULE
N.T.S.

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Consultant PASSERO engineering architecture STRUCTURAL

Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

#	DATE	DESCRIPTION

Drawn By:	JRG
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
COLUMN SCHEDULE

Sheet No.
CTE S004

CONSTRUCTION DOCUMENTS

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COMPONENTS AND CLADDING TABLE

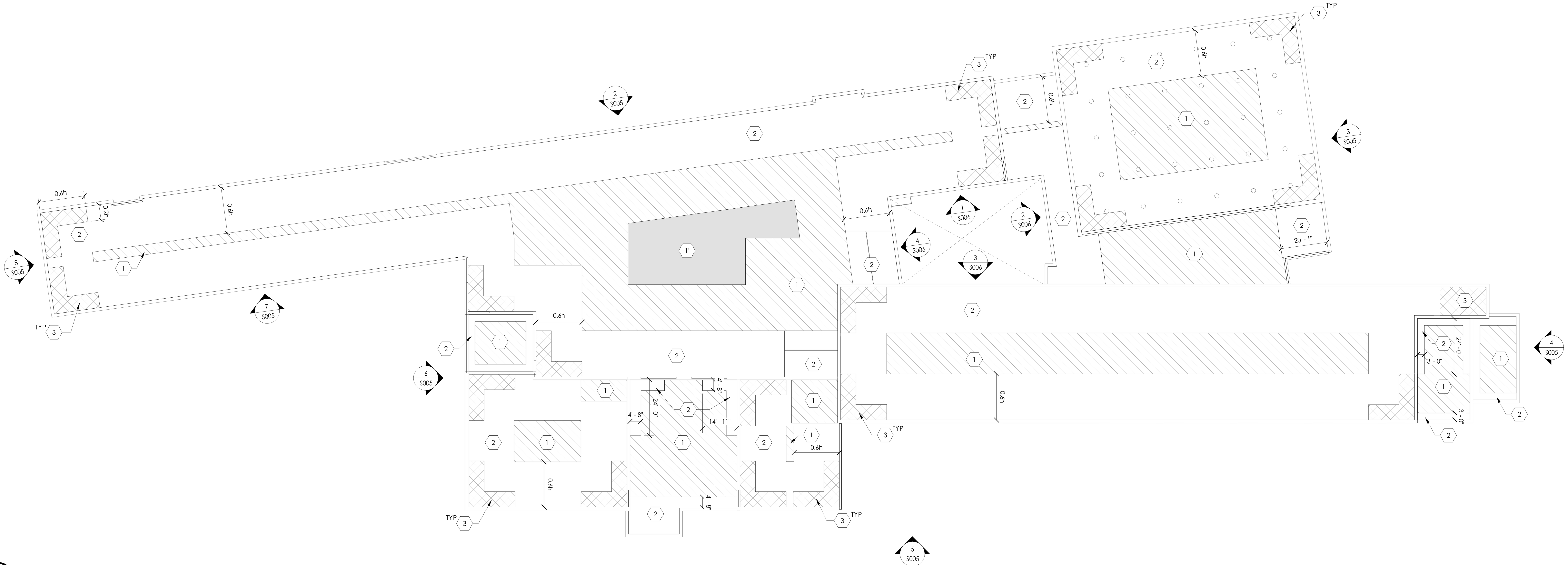
BUILDING EDGE ZONES ARE 0.6h = 19'-11" AND 0.2h = 6'-8"

WALL ZONE	EFFECTIVE WIND AREA (SF)	ULTIMATE PRESSURE (PSF)
4	10	+24.4 / -26.4
4	20	+23.3 / -25.3
4	50	+21.9 / -23.9
4	100	+20.8 / -22.8
5	10	+24.4 / -32.5
5	20	+23.3 / -30.4
5	50	+21.9 / -27.5
5	100	+20.8 / -25.3
CANOPY	10	+19.8 / -12.6
CANOPY	20	+19.1 / -12.4
CANOPY	50	+17.3 / -11.6
CANOPY	100	+14.2 / -10.4

ROOF ZONE	EFFECTIVE WIND AREA (SF)	ULTIMATE PRESSURE (PSF)
1	10	+16.0 / -42.4
1	20	+16.0 / -39.6
1	50	+16.0 / -35.9
1	100	+16.0 / -33.1
1'	10 - 100	+16.0 / -24.4
2 & 3	10	+24.4 / -56.0
2 & 3	20	+23.3 / -52.4
2 & 3	50	+21.9 / -47.6
2 & 3	100	+20.8 / -44.0

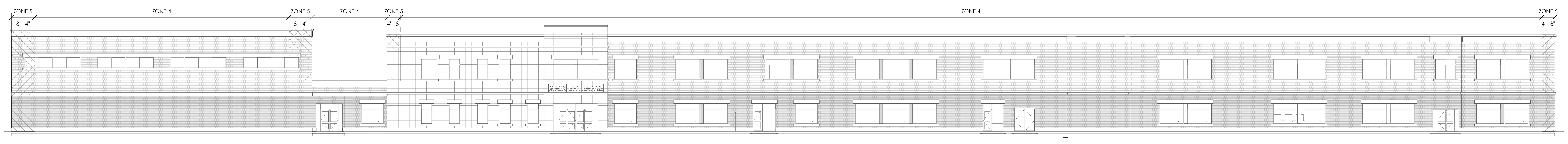
WIND PRESSURE NOTES

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.
7. ALL DIMENSIONS SHOWN ARE MEASURED PERPENDICULAR TO SURFACE.



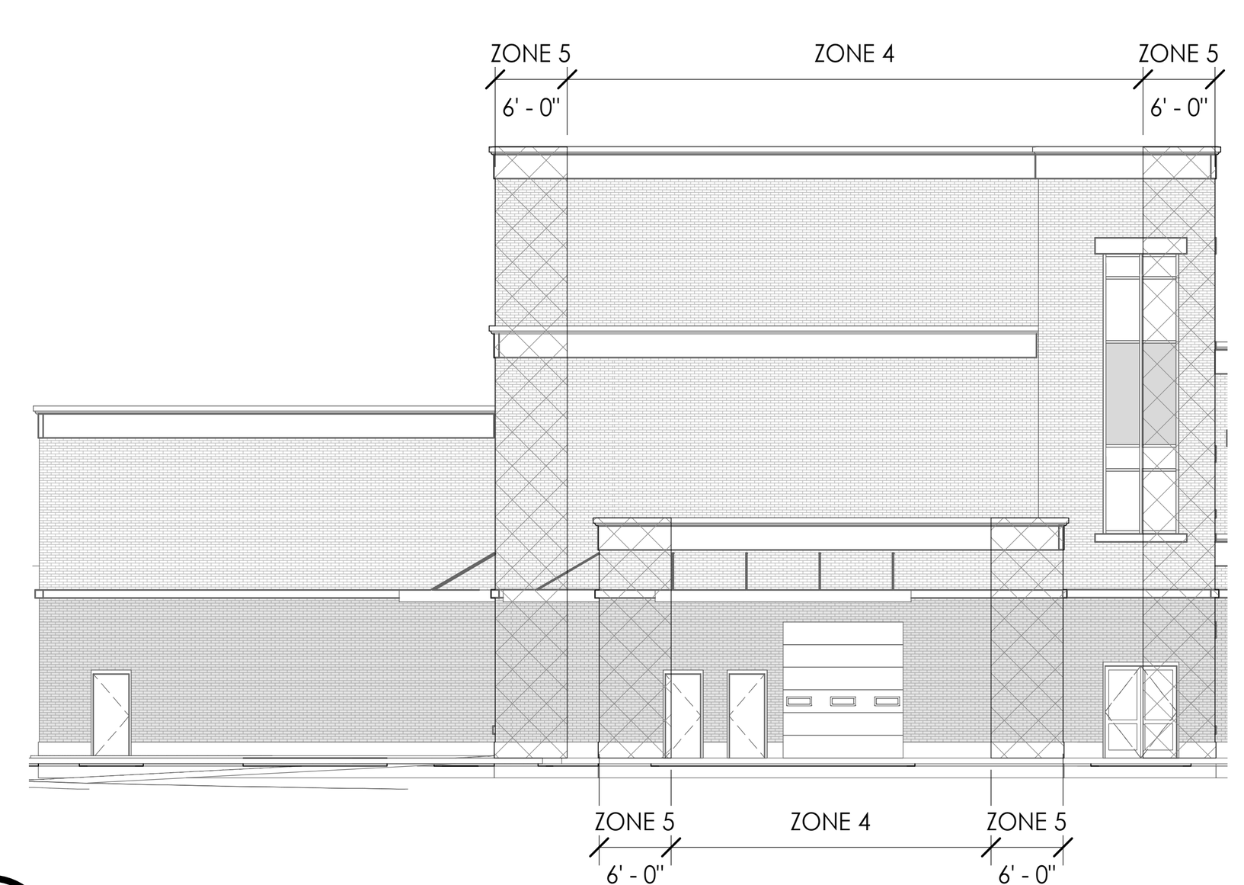
1 ROOF CC UPLIFT PLAN

N.T.S.



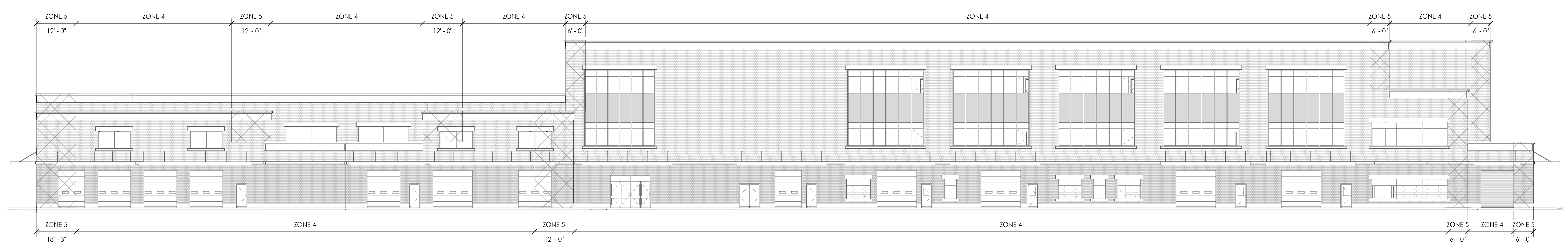
2 ELEVATION A

N.T.S.



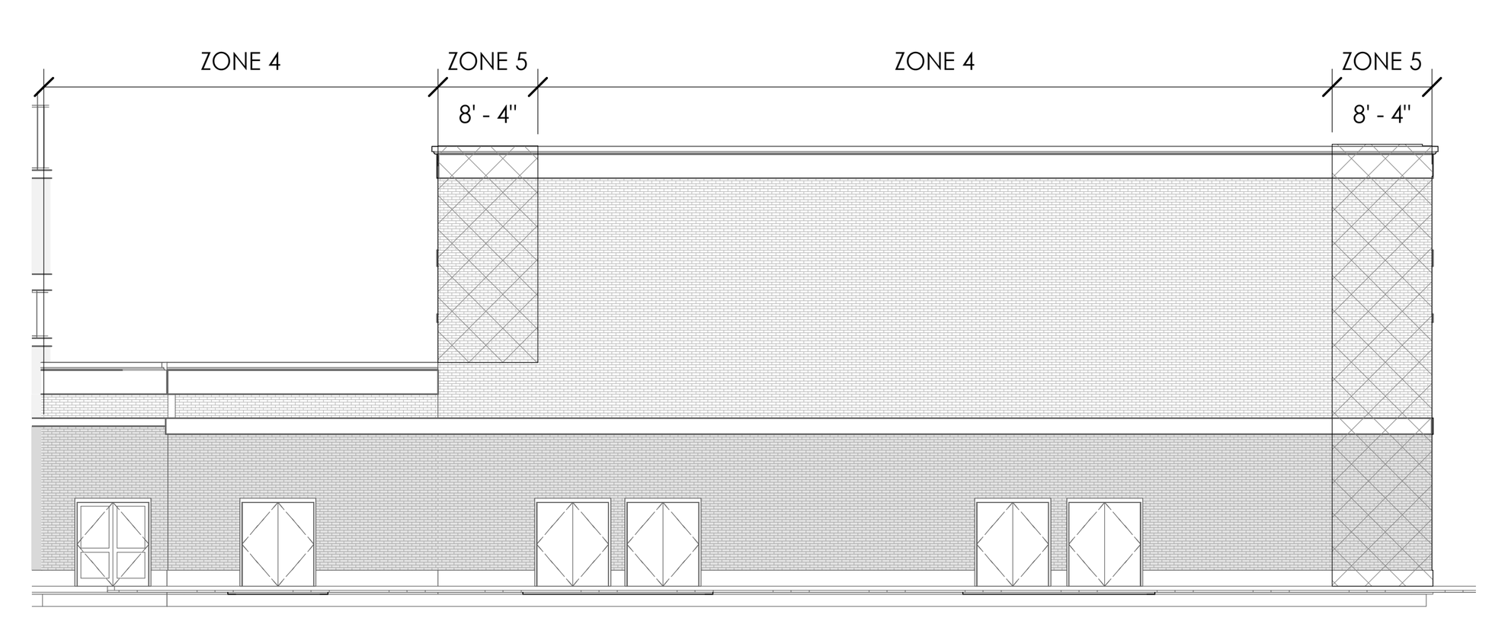
4 ELEVATION C

N.T.S.



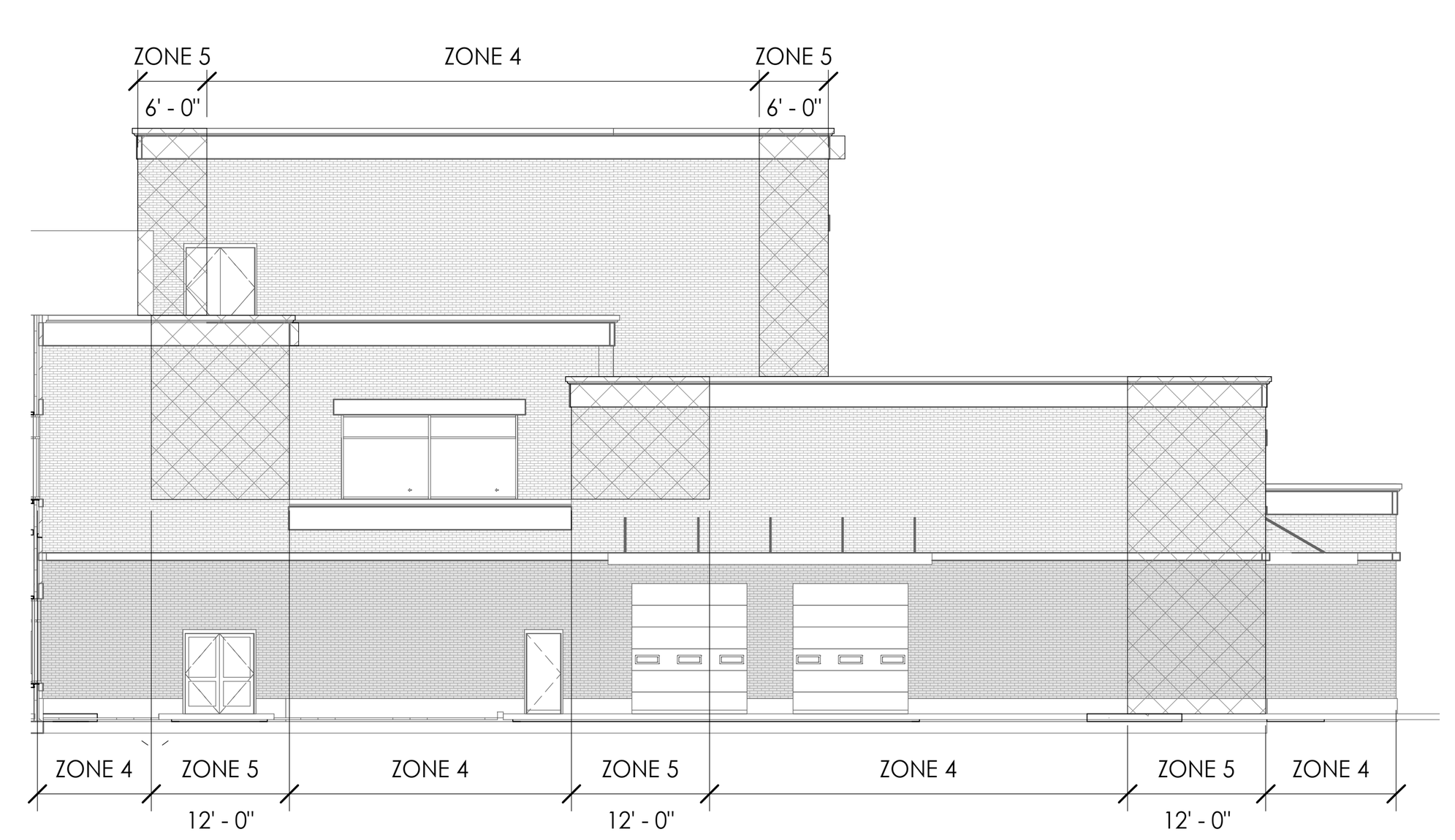
5 ELEVATION D

N.T.S.



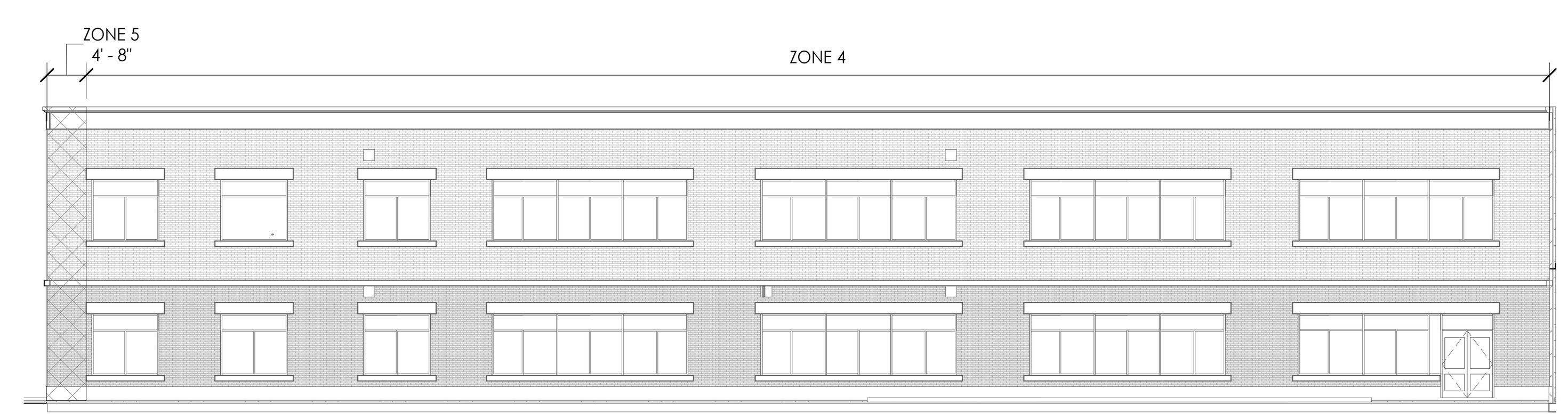
3 ELEVATION B

N.T.S.



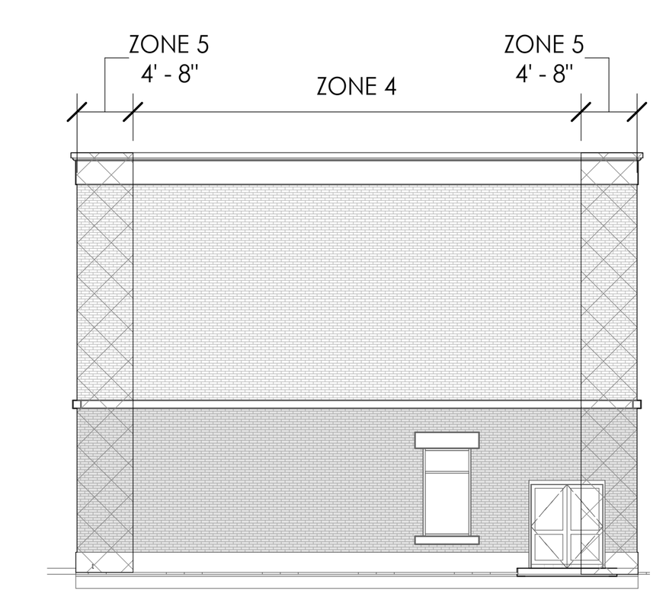
6 ELEVATION E

N.T.S.



7 ELEVATION F

N.T.S.



8 ELEVATION G

N.T.S.

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Sheet Title

COMPONENTS AND CLADDING DIAGRAMS

Sheet No.

CTE S005

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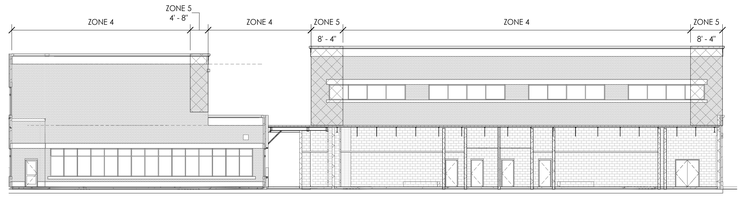
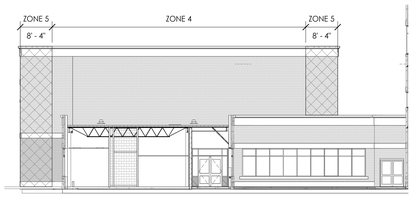


1 ELEVATION H
N.T.S.



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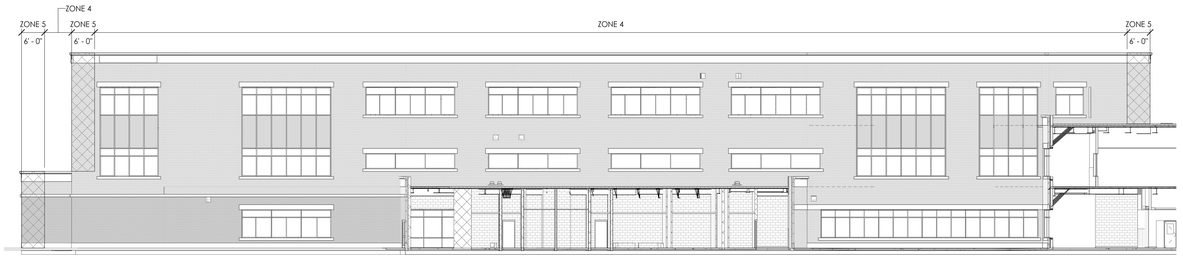

3 ELEVATION J
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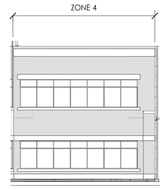

4 ELEVATION K
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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

STATE OF NEW YORK
PATRICK JAMES WILLIAMS
100936
LICENSED PROFESSIONAL ENGINEER

No.	DATE	DESCRIPTION

Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
COMPONENTS AND CLADDING DIAGRAMS

Sheet No.
CTE S006

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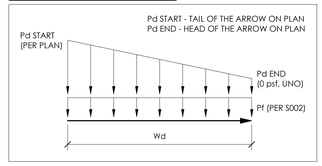
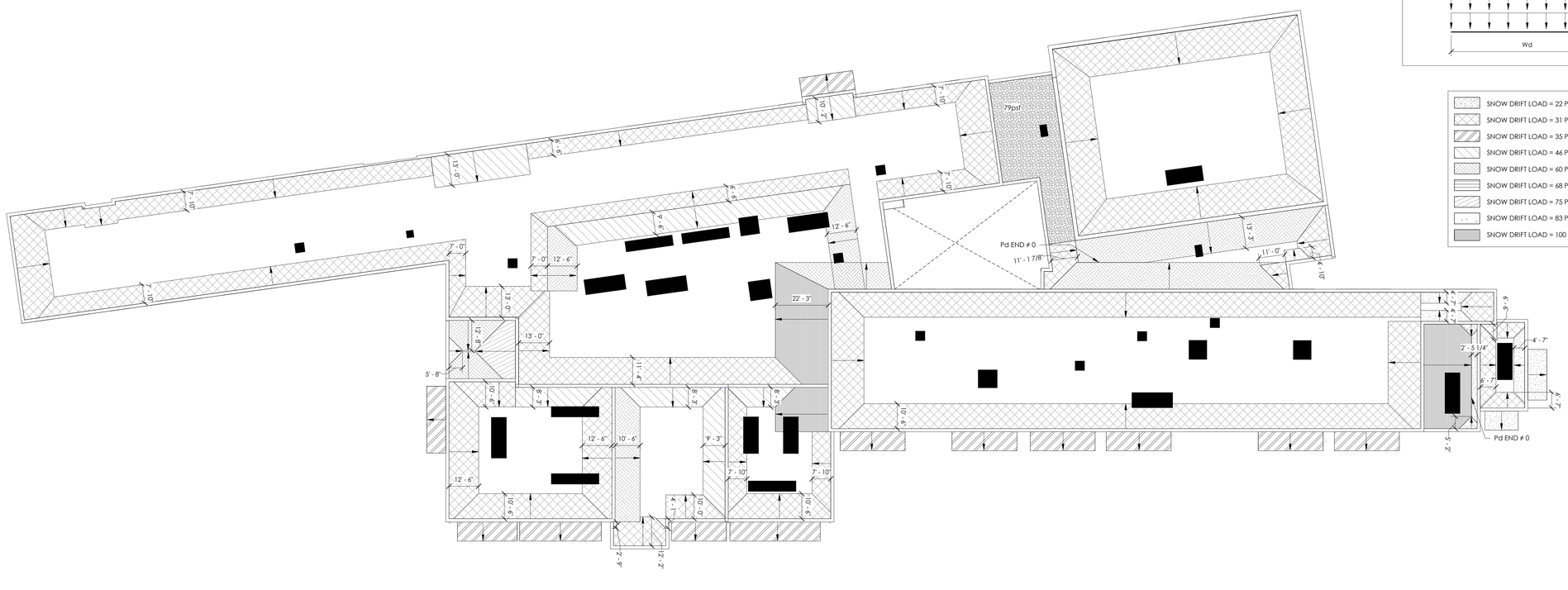
SNOW DRIFT LEGEND



SNOW DRIFT LOAD = 22 PSF	Wd = 5'-0", UNO
SNOW DRIFT LOAD = 31 PSF	Wd = 13'-9", UNO
SNOW DRIFT LOAD = 35 PSF	Wd = 8'-0", UNO
SNOW DRIFT LOAD = 46 PSF	Wd = 9'-3", UNO
SNOW DRIFT LOAD = 60 PSF	Wd = 11'-3", UNO
SNOW DRIFT LOAD = 68 PSF	Wd = 15'-3", UNO
SNOW DRIFT LOAD = 75 PSF	Wd = 16'-9", UNO
SNOW DRIFT LOAD = 83 PSF	Wd = 26'-10", UNO
SNOW DRIFT LOAD = 100 PSF	Wd = 22'-3", UNO



1 SNOW DRIFT PLAN

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Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2302
Issued for Bid:	4/15/2024

Sheet Title
SNOW DRIFT PLAN

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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 QUALIFICATIONS 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. 1.2.1(E), 6.1.4.3, 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		

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	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	NEWBURGH, NY 12550
OWNER	NEWBURGH ENLARGED CITY SCHOOL DISTRICT
DESIGN PROFESSIONAL IN CHARGE	Patrick J. Williams, 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) CERTIFICATON	
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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Issued for Bid:	4/15/2024

Sheet Title

SPECIAL INSPECTIONS

Sheet No.

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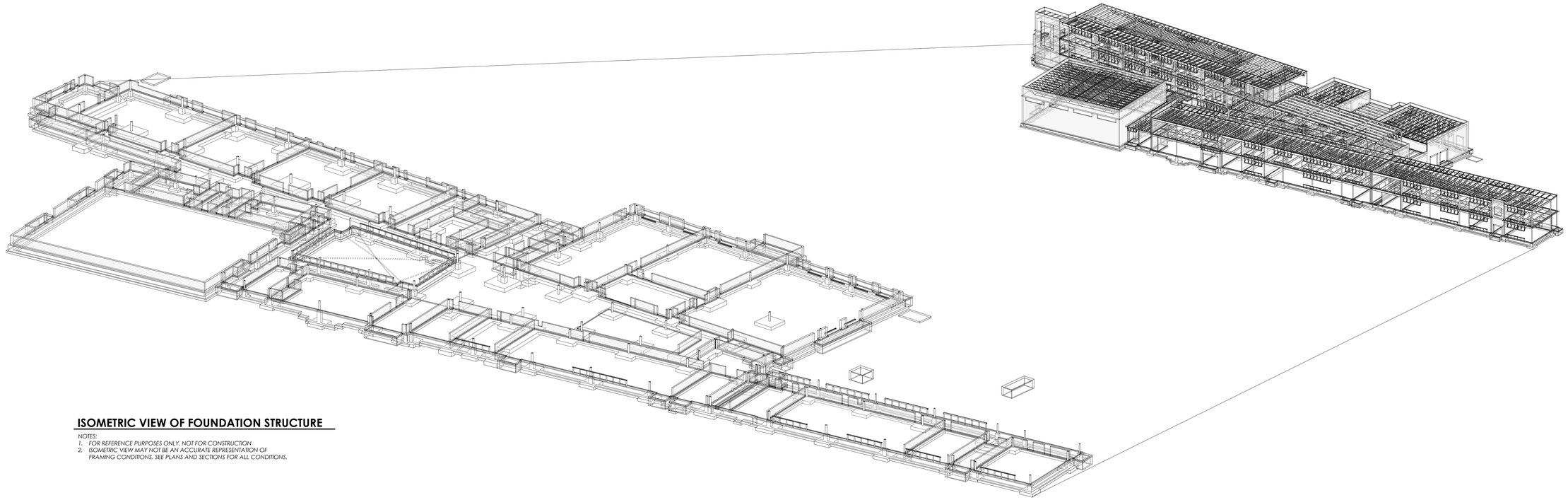


ISOMETRIC VIEW OF FOUNDATION STRUCTURE

NOTES:
1. *FOR REFERENCE PURPOSES ONLY, NOT FOR CONSTRUCTION*
2. *ISOMETRIC VIEW MAY NOT BE AN ACCURATE REPRESENTATION OF FRAMING CONDITIONS. SEE PLANS AND SECTIONS FOR ALL CONDITIONS.*

FOUNDATION LEGEND

TP-#	INDICATES APPROXIMATE LOCATION AND INDENTIFICATION OF TEST PIT AS IDENTIFIED IN THE GEOTECHNICAL REPORT INDICATED IN THE GENERAL NOTES.
B-#	INDICATES APPROXIMATE LOCATION AND IDENTIFICATION OF BORE HOLE AS IDENTIFIED IN THE GEOTECHNICAL REPORT INDICATED IN THE GENERAL NOTES

FOUNDATION PLAN KEYNOTES

1	PROVIDE 8" EXTRIOR EQUIPMENT PAD WITH #5 BARS @ 12" OC, EW, EF, PER TYPICAL DETAIL. COORDINATE EXACT SIZE AND REINF WITH CIVIL AND MEP DRAWINGS
2	PROVIDE 6" EXTRIOR FROST PROTECTED EQUIPMENT PAD WITH 6X6 - W2.9XW2.9 WWF PER TYPICAL DETAIL. COORDINATE EXACT SIZE AND REINF WITH CIVIL AND MEP DRAWINGS
3	SHOWER STALL, SLOPE SLAB TO DRAIN. COORDINATE WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS FOR EXTENTS AND REQUIREMENTS.

BORE HOLE AND TEST PIT LOCATION DATA

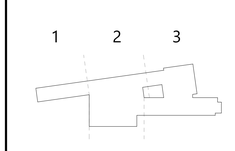
MARK	(E) GROUND ELEVATION (FT)	DEPTH TO FILL (FT)	DEPTH TO BEDROCK (FT)
B-1	268.5	NA	7.0
B-2	263.4	NA	20.0
B-3	263.3	NA	8.0
B-4	264.7	NA	13.0
B-5	264.5	NA	6.0
B-6	260.0	6	15.1
B-7	261.8	15	22.0
B-8	268.0	NA	12.0
B-9	264.4	NA	16.5
B-10	262.8	15	24.0
P-1	267.5	NA	6.0
P-2	263.1	8	NA
TP-2	267.5	25	6.0
TP-5	265.5	3.5	NA
TP-6	265.3	5	9.0
TP-7	265.8	NA	7.0
TP-9	263.3	NA	NA
TP-10	263.1	10	NA
TP-11	262.7	2.5	NA
TP-12	268.5	NA	NA

NOTE:
INFORMATION REITERATED IN TABLE FOR EASE OF REFERENCE. REFER TO GEOTECH REPORT FOR RELEVANT INFORMATION

1 OVERALL FOUNDATION / SLAB PLAN

3/64" = 1'-0"

KEY PLAN



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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

STATE OF NEW YORK
PATRICK JAMES WILLIAMS
100935
LICENSED PROFESSIONAL ENGINEER

No.	DATE	DESCRIPTION

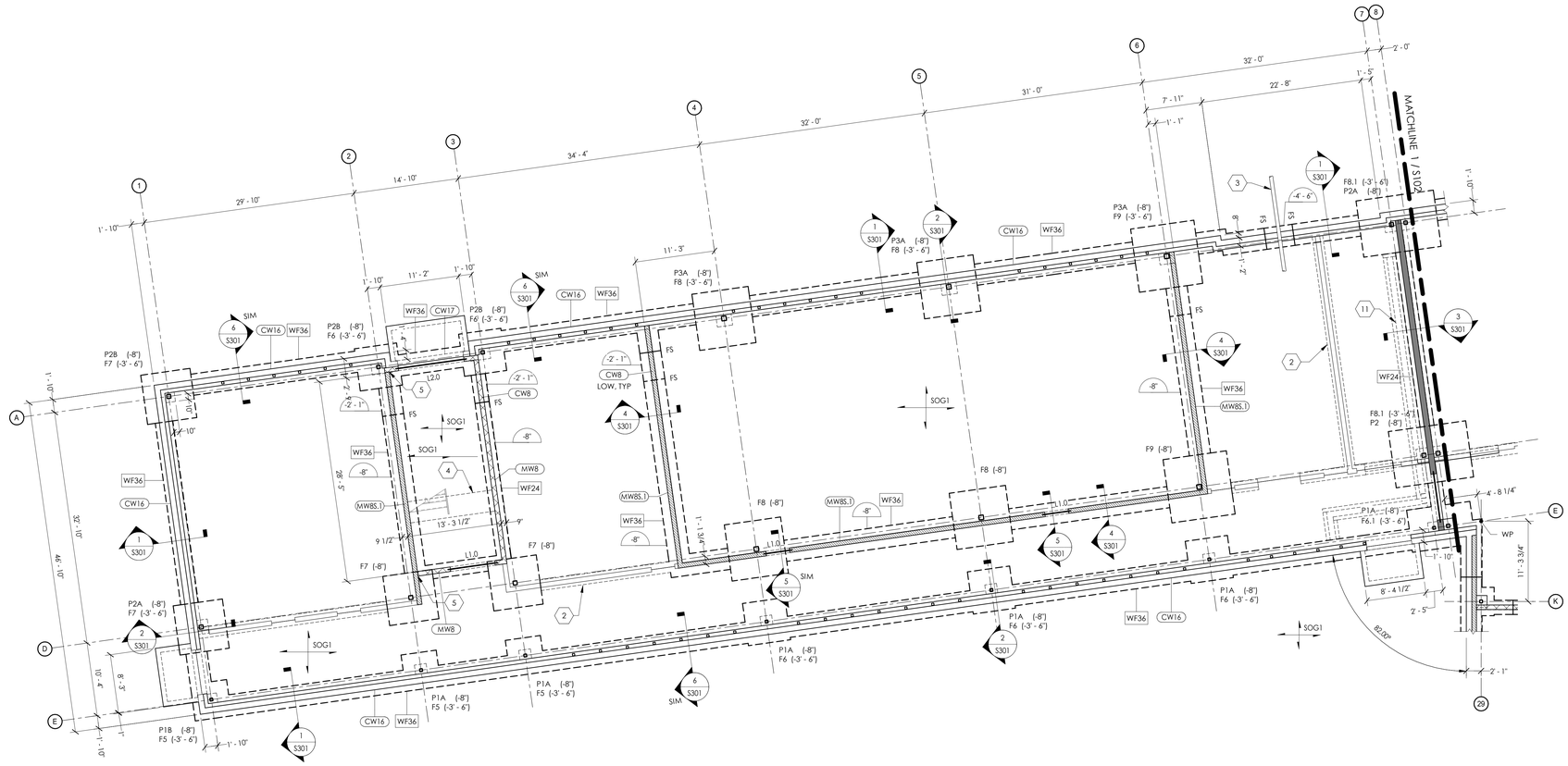
Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
OVERALL FOUNDATION/ SLAB PLAN

Sheet No.
CTE S100

CONSTRUCTION DOCUMENTS

Autodesk Docs://NECSD - New CTE Bldg/NECSD CTE - Struct.rvt



1 FOUNDATION / SLAB PLAN - AREA 1

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#	CW# - DENOTES CONCRETE WALL MARK (SEE FOUNDATION WALL AND/OR WALL SCHEDULE)
MW#	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"
	INDICATES LOCATION OF CMU FIREWALL.
	INDICATES LOCATION OF CMU SHEAR WALL. SEE SCHEDULE AND DETAILS FOR ADDITIONAL INFORMATION.
SOG# +/- #"	DENOTES CONCRETE SLAB MARK AND ELEVATION OFFSETWITH RESPECT TO DATUM ELEVATION = 0' - 0" (SEE SLAB ON GRADE SCHEDULE)
	INDICTES EDGE OF AREA FOR SLAB DEPRESSION

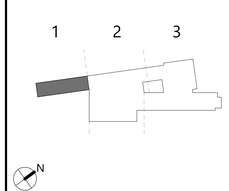
FOUNDATION PLAN NOTES

1. SEE SHEET S001 THROUGH S008 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS
3. FINISH FLOOR REFERENCE ELEVATION = 0' - 0" = 266.00' 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.
5. COORDINATE DOOR AND CURTAIN WALL WIDTHS AND LOCATING DIMENSIONS WITH ARCH.
6. COORDINATE WITH CIVIL, ARCH AND MEP DRAWINGS ON ANY REQUIRED PENETRATIONS THROUGH FOUNDATION WALLS OR FOOTINGS.
7. MASONRY LINTELS SHOWN ON PLAN ARE FOR THE HEAD OF OPENINGS ASSOCIATED WITH THE FIRST FLOOR. COORDINATE LOCATIONS AND HEIGHTS WITH ARCH DRAWINGS

FOUNDATION PLAN KEYNOTES

#	
1	2" EXPANSION JOINT IN CMU WALL. SEE ARCH FOR EJ COVER
2	FOOTING BELOW INTERIOR CMU PARTITION WALLS, TYP. SEE TYPICAL DETAIL
3	THROUGH FOUNDATION WALL PIPING, SEE PLUMB AND CIVIL DRAWINGS FOR LOCATION. STEP FOOTING AS REQUIRED PER TYPICAL PIPE PENETRATION DETAIL.
4	THICKENED SLAB BELOW STAIR STRINGER BEARING, TYP. SEE TYPICAL DETAIL
5	PROVIDE CONTROL JOINT BETWEEN SHEAR WALL AND NONSHEAR WALL, TYP. SEE TYPICAL DETAIL
6	SEE TYPICAL ELEVATOR PIT DETAIL FOR SUMP PIT AND FOUNDATION SLAB INFORMATION
7	ELECTRICAL DUCTBANK, COORDINATE WITH ELECTRICAL DRAWINGS, PROVIDE OPENING THRU FOUNDATION WALL AS REQUIRED. SEE TYPICAL DETAILS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS.
8	PROVIDE FROST PROTECTED SLABS AT ALL EXTERIOR DOORWAYS. SEE TYPICAL DETAIL FOR ADDITIONAL INFORMATION.
9	6" EQUIPMENT PAD. COORDINATE EXACT LOCATION AND DIMENSIONAL REQUIREMENTS WITH MEP DRAWINGS. SEE TYPICAL DETAILS ON S500 SHEETS
10	SHOWER STALL SLOPE SLAB TO DRAIN. COORDINATE WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS FOR EXTENTS AND REQUIREMENTS.
11	CONCRETE TRENCH WITH CAP FOR GAS PIPING UNDER SLAB. COORDINATE EXTENTS WITH PLUMBING DRAWINGS. SEE DETAIL 3/S301 FOR INFORMATION.

KEY PLAN



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NEW CTE BUILDING

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Sheet Title
FOUNDATION/ SLAB PLAN - AREA 1

Sheet No.
CTE S101

CONSTRUCTION DOCUMENTS

Autodesk Docs://NECSD - New CTE Bldg/NECSD CTE - Struct.rvt

FOUNDATION LEGEND

F# (-#' - #")	F# - DENOTES FOOTING MARK (SEE FOOTING SCHEDULE) (#' - #") - DENOTES TOP OF FOOTING ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"
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MW#	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"
	INDICATES LOCATION OF CMU FIREWALL.
	INDICATES LOCATION OF CMU SHEAR WALL. SEE SCHEDULE AND DETAILS FOR ADDITIONAL INFORMATION.
SOG# +/- #"	DENOTES CONCRETE SLAB MARK AND ELEVATION OFFSETWITH RESPECT TO DATUM ELEVATION = 0' - 0" (SEE SLAB ON GRADE SCHEDULE)
	INDICTES EDGE OF AREA FOR SLAB DEPRESSION

FOUNDATION PLAN NOTES

1. SEE SHEET S001 THROUGH S008 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS
3. FINISH FLOOR REFERENCE ELEVATION = 0' - 0" = 266.00' 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.
5. COORDINATE DOOR AND CURTAIN WALL WIDTHS AND LOCATING DIMENSIONS WITH ARCH.
6. COORDINATE WITH CIVIL, ARCH AND MEP DRAWINGS ON ANY REQUIRED PENETRATIONS THROUGH FOUNDATION WALLS OR FOOTINGS.
7. MASONRY LINTELS SHOWN ON PLAN ARE FOR THE HEAD OF OPENINGS ASSOCIATED WITH THE FIRST FLOOR. COORDINATE LOCATIONS AND HEIGHTS WITH ARCH DRAWINGS

FOUNDATION PLAN KEYNOTES

#	
1	2" EXPANSION JOINT IN CMU WALL. SEE ARCH FOR EJ COVER
2	FOOTING BELOW INTERIOR CMU PARTITION WALLS, TYP. SEE TYPICAL DETAIL
3	THROUGH FOUNDATION WALL PIPING. SEE PLUMB AND CIVIL DRAWINGS FOR LOCATION. STEP FOOTING AS REQUIRED PER TYPICAL PIPE PENETRATION DETAIL.
4	THICKENED SLAB BELOW STAIR STRINGER BEARING, TYP. SEE TYPICAL DETAIL
5	PROVIDE CONTROL JOINT BETWEEN SHEAR WALL AND NONSHEAR WALL, TYP. SEE TYPICAL DETAIL
6	SEE TYPICAL ELEVATOR PIT DETAIL FOR SUMP PIT AND FOUNDATION SLAB INFORMATION
7	ELECTRICAL DUCTBANK. COORDINATE WITH ELECTRICAL DRAWINGS. PROVIDE OPENING THRU FOUNDATION WALL AS REQUIRED. SEE TYPICAL DETAILS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS.
8	PROVIDE FROST PROTECTED SLABS AT ALL EXTERIOR DOORWAYS. SEE TYPICAL DETAIL FOR ADDITIONAL INFORMATION.
9	6" EQUIPMENT PAD. COORDINATE EXACT LOCATION AND DIMENSIONAL REQURIEMENTS WITH MEP DRAWINGS. SEE TYPICAL DETAILS ON S500 SHEETS
10	SHOWER STALL. SLOPE SLAB TO DRAIN. COORDINATE WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS FOR EXTENTS AND REQUIREMENTS.
11	CONCRETE TRENCH WITH CAP FOR GAS PIPING UNDER SLAB. COORDINATE EXTENTS WITH PLUMBING DRAWINGS. SEE DETAIL 3/S303 FOR INFORMATION.

1 FOUNDATION / SLAB PLAN - AREA 2

1/8" = 1'-0"

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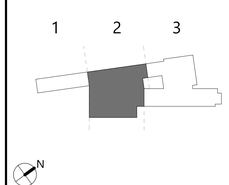
KEY PLAN



Sheet Title

FOUNDATION/ SLAB PLAN - AREA 2

Sheet No.

CTE S102

CONSTRUCTION DOCUMENTS

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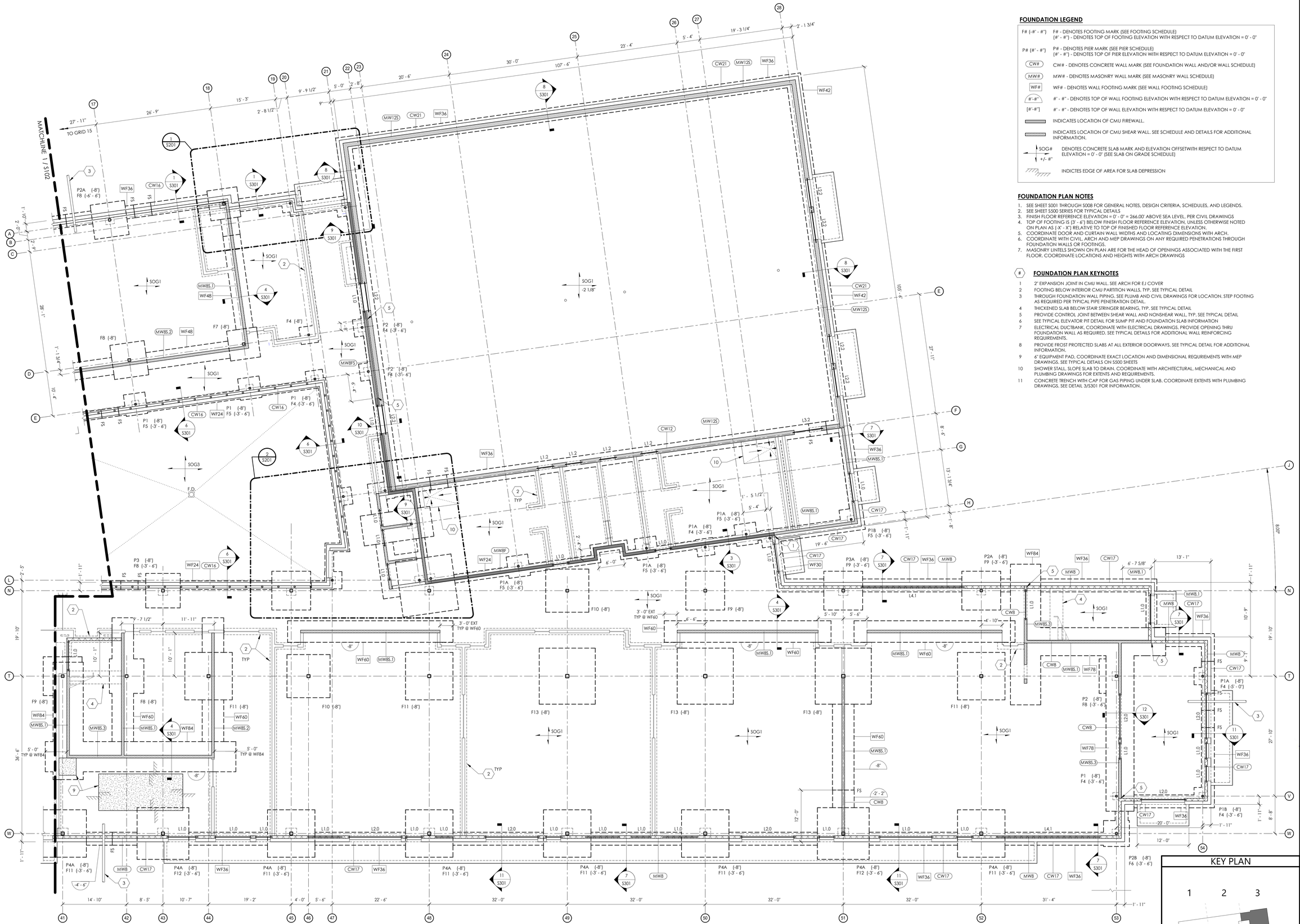

FOUNDATION LEGEND

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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"
	INDICATES LOCATION OF CMU FIREWALL.
	INDICATES LOCATION OF CMU SHEAR WALL. SEE SCHEDULE AND DETAILS FOR ADDITIONAL INFORMATION.
SOG# +/- #"	DENOTES CONCRETE SLAB MARK AND ELEVATION OFFSETWITH RESPECT TO DATUM ELEVATION = 0' - 0" (SEE SLAB ON GRADE SCHEDULE)
	INDICTES EDGE OF AREA FOR SLAB DEPRESSION

FOUNDATION PLAN NOTES

1. SEE SHEET S001 THROUGH S008 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS
3. FINISH FLOOR REFERENCE ELEVATION = 0' - 0" = 266.00' ABOVE SEA LEVEL, PER CIVIL DRAWINGS
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FOUNDATION PLAN KEYNOTES

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3	THROUGH FOUNDATION WALL PIPING. SEE PLUMB AND CIVIL DRAWINGS FOR LOCATION. STEP FOOTING AS REQUIRED PER TYPICAL PIPE PENETRATION DETAIL.
4	THICKENED SLAB BELOW STAIR STRINGER BEARING, TYP. SEE TYPICAL DETAIL
5	PROVIDE CONTROL JOINT BETWEEN SHEAR WALL AND NONSHEAR WALL, TYP. SEE TYPICAL DETAIL
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7	ELECTRICAL DUCTBANK. COORDINATE WITH ELECTRICAL DRAWINGS. PROVIDE OPENING THRU FOUNDATION WALL AS REQUIRED. SEE TYPICAL DETAILS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS.
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11	CONCRETE TRENCH WITH CAP FOR GAS PIPING UNDER SLAB. COORDINATE EXTENTS WITH PLUMBING DRAWINGS. SEE DETAIL 3/S301 FOR INFORMATION.

1 FOUNDATION / SLAB PLAN - AREA 3

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

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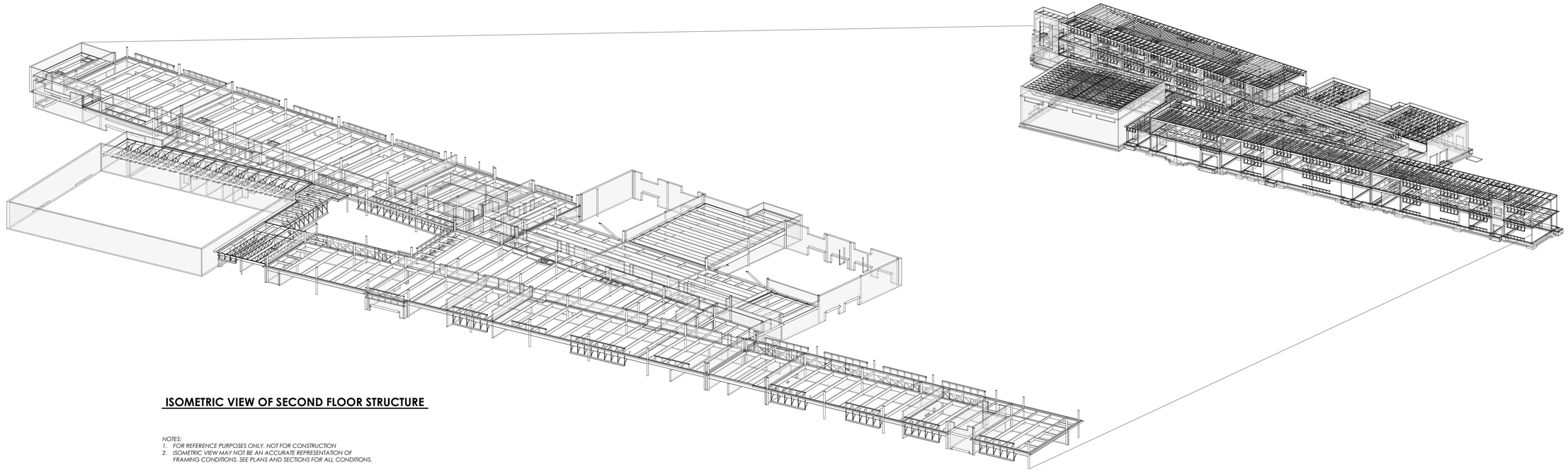
Sheet Title
FOUNDATION/ SLAB PLAN - AREA 3

Sheet No.
CTE S103

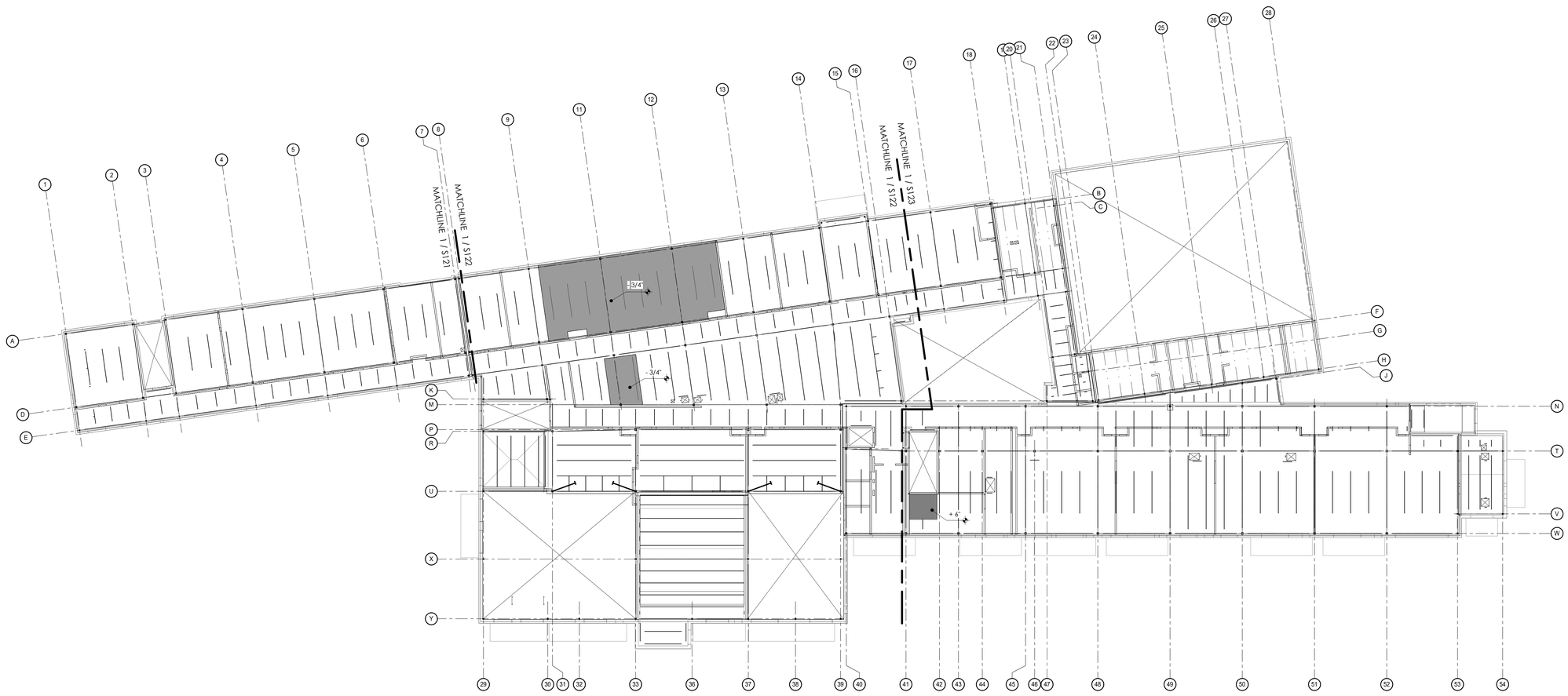
CONSTRUCTION DOCUMENTS

Autodesk Docs://NECSD - New CTE Bldg/NECSD CTE - Struct.rvt



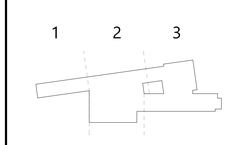
ISOMETRIC VIEW OF SECOND FLOOR STRUCTURE

NOTES:
1. *FOR REFERENCE PURPOSES ONLY. NOT FOR CONSTRUCTION*
2. *ISOMETRIC VIEW MAY NOT BE AN ACCURATE REPRESENTATION OF FRAMING CONDITIONS. SEE PLANS AND SECTIONS FOR ALL CONDITIONS.*



1 OVERALL SECOND FLOOR FRAMING PLAN
3/64" = 1'-0"

KEY PLAN



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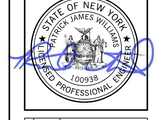

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Sheet Title
OVERALL SECOND FLOOR FRAMING PLAN

Sheet No.
CTE S120

CONSTRUCTION DOCUMENTS

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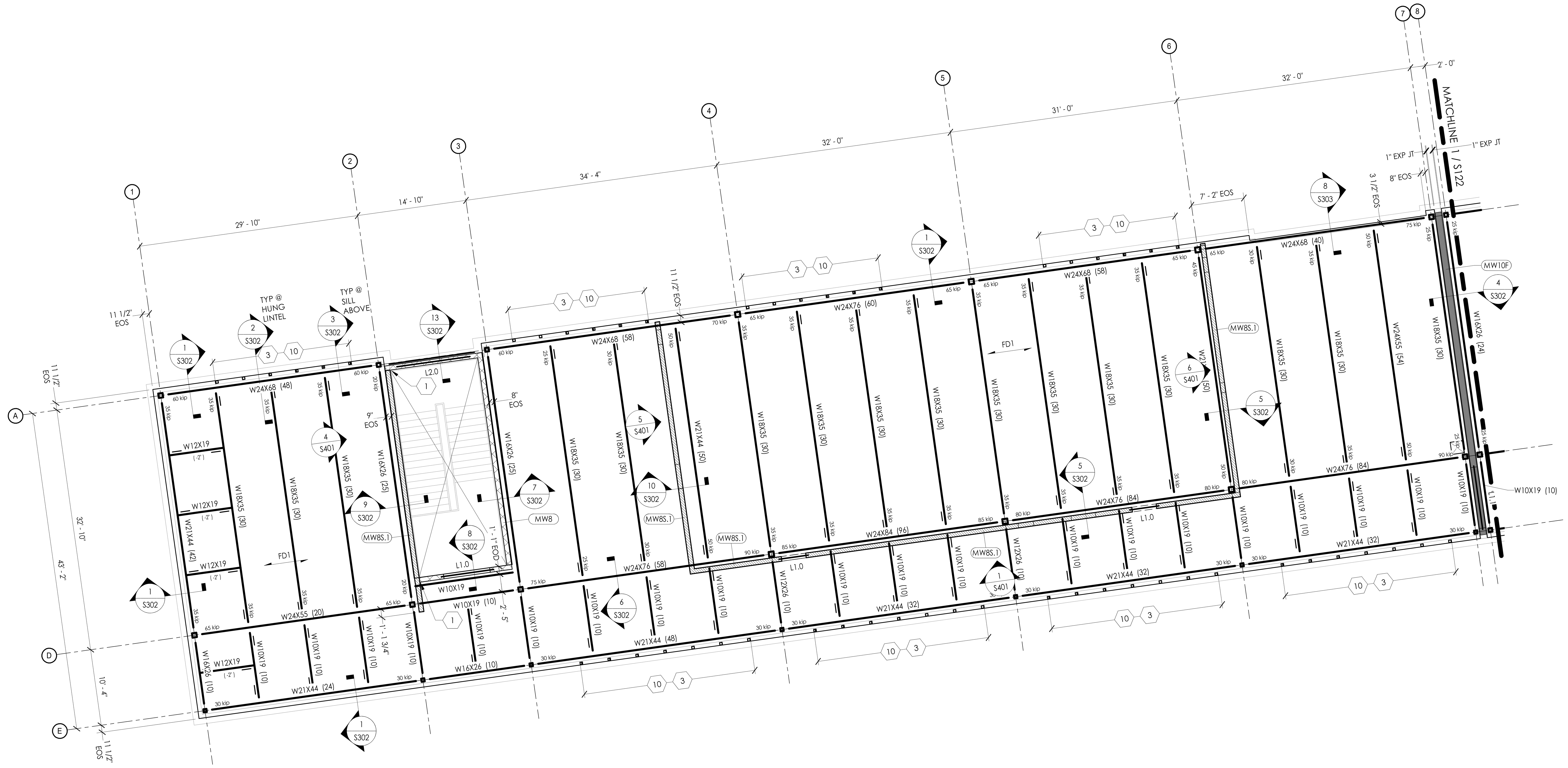


SECOND FLOOR FRAMING PLAN - AREA 1

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
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 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)
	DENTOES MASONRY SHEAR WALL
	DENOTES MASONRY FIRE WALL LOCATION. SEE ARCHITECTURAL DRAWINGS.
	DENOTES MASONRY SHEAR WALL BELOW
####	DENOTES UL ASSEMBLY RATING, REFER TO ARCH DRAWINGS FOR SPRAY FIREPROOFING REQUIREMENTS.

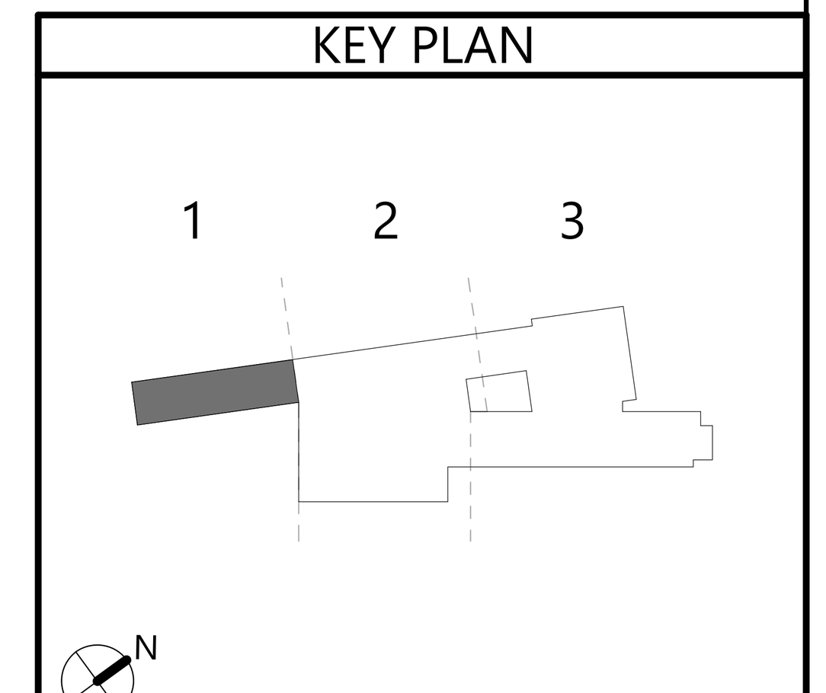
FRAMING PLAN NOTES:

1. SEE SHEET S001 THROUGH S008 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS.
3. TOP OF STEEL ELEVATION = + 15' - 6 1/2", 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. COORDINATE ALL OPENINGS IN WALLS WITH ARCH AND MEP DRAWINGS. OPENINGS NOT INDICATED ON PLANS SHALL CONFORM TO S500 SERIES TYPICAL DETAIL REQUIREMENTS.
7. 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 @ 12" OC MAX.
8. ALL BEAMS INDICATED WITH A UL ASSEMBLY RATING ARE TO BE SPRAY FIREPROOFED ACCORDING TO UL ASSEMBLY REQUIRMENTS. NOT ALL BEAMS EXTENT IS REQUIRED TO BE FIREPROOFED, REFER TO ARCH DRAWINGS FOR AREA REQUIREMENTS/EXTENTS.
9. MASONRY LINTELS SHOWN ON PLAN ARE FOR THE HEAD OF OPENINGS ASSOCIATED WITH THE SECOND FLOOR. COORDINATE LOCATIONS AND HEIGHTS WITH ARCH DRAWINGS.

SECOND FLOOR PLAN KEYNOTES

1	CONTROL JOINT IN CMU WALL TO SEPARATE SHEAR WALL. SEE TYPICAL DETAILS
2	PREFABRICATED CANOPY, REFER TO ARCH FOR DIMENSIONS AND LOCATIONS
3	HUNG STEEL LINTEL FRAMING BELOW. SEE DETAIL 2/S302 FOR INFORMATION, AND COORDINATE EXTENT OF OPENING WITH ARCH DRAWINGS.
4	2" EXPANSION JOINT IN CMU WALL. SEE ARCH FOR EJ COVER
5	ROOF OPENING ANGLE SUBFRAMING, SEE TYPICAL DETAIL
6	VEHICLE EXAUST REEL, HUNG FROM JOISTS ABOVE. SEE DETAIL FOR HUNG STRUCTURE
7	STAIR AND RAILING FRAMING BY DELEGATED DESIGNER, TYP
8	CAST IN PLACE BOND BEAM AT SILL OF OPENING ABOVE. SEE APPLICABLE DETAIL
9	6" EQUIPMENT PAD, COORDINATE EXACT LOCATION AND DIMENSIONAL REQUIREMENTS WITH MEP DRAWINGS. SEE TYPICAL DETAILS ON S500 SHEETS
10	STEEL SILL FRAMING ABOVE. SEE DETAIL 3/S302 FOR INFORMATION, AND COORDINATE EXTENT OF OPENING WITH ARCH DRAWINGS.
11	STEEL SILL AND CANOPY CONNECTION FRAMING ABOVE. SEE DETAIL 11/S302 FOR INFORMATION, AND COORDINATE EXTENT OF OPENING AND CANOPY TIE BACKS WITH ARCH DRAWINGS.
12	STEEL CANOPY CONNECTION FRAMING ABOVE. SEE DETAIL 14/S304 FOR INFORMATION, AND COORDINATE EXTENT OF CANOPY TIE BACKS WITH ARCH DRAWINGS.

KEY PLAN



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Sheet Title
SECOND FLOOR FRAMING PLAN - AREA 1

Sheet No.
CTE S121

CONSTRUCTION DOCUMENTS

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FRAMING LEGEND

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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 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)
	DENTOES MASONRY SHEAR WALL
	DENOTES MASONRY FIRE WALL LOCATION, SEE ARCHITECTURAL DRAWINGS.
	DENOTES MASONRY SHEAR WALL BELOW
####	DENOTES UL ASSEMBLY RATING, REFER TO ARCH DRAWINGS FOR SPRAY FIREPROOFING REQUIREMENTS.

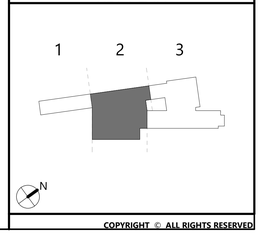
FRAMING PLAN NOTES:

1. SEE SHEET S001 THROUGH S008 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS.
3. TOP OF STEEL ELEVATION = + 15' - 6 1/2", 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. COORDINATE ALL OPENINGS IN WALLS WITH ARCH AND MEP DRAWINGS. OPENINGS NOT INDICATED ON PLANS SHALL CONFORM TO S500 SERIES TYPICAL DETAIL REQUIREMENTS.
7. 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 @ 12" OC MAX.
8. ALL BEAMS INDICATED WITH A UL ASSEMBLY RATING ARE TO BE SPRAY FIREPROOFED ACCORDING TO UL ASSEMBLY REQUIRMENTS. NOT ALL BEAMS EXTENT IS REQUIRED TO BE FIREPROOFED, REFER TO ARCH DRAWINGS FOR AREA REQUIREMENTS/EXTENTS.
9. MASONRY LINTELS SHOWN ON PLAN ARE FOR THE HEAD OF OPENINGS ASSOCIATED WITH THE SECOND FLOOR. COORDINATE LOCATIONS AND HEIGHTS WITH ARCH DRAWINGS.

SECOND FLOOR PLAN KEYNOTES

#	
1	CONTROL JOINT IN CMU WALL TO SEPARATE SHEAR WALL, SEE TYPICAL DETAILS
2	PREFABRICATED CANOPY, REFER TO ARCH FOR DIMENSIONS AND LOCATIONS
3	HUNG STEEL LINTEL FRAMING BELOW, SEE DETAIL 2/S302 FOR INFORMATION, AND COORDINATE EXTENT OF OPENING WITH ARCH DRAWINGS.
4	2" EXPANSION JOINT IN CMU WALL, SEE ARCH FOR EJ COVER
5	ROOF OPENING ANGLE SUBFRAMING, SEE TYPICAL DETAIL
6	VEHICLE EXAUST REEL, HUNG FROM JOISTS ABOVE, SEE DETAIL FOR HUNG STRUCTURE
7	STAIR AND RAILING FRAMING BY DELEGATED DESIGNER, TYP
8	CAST IN PLACE BOND BEAM AT SILL OF OPENING ABOVE. SEE APPLICABLE DETAIL
9	6" EQUIPMENT PAD. COORDINATE EXACT LOCATION AND DIMENSIONAL REQUIREMENTS WITH MEP DRAWINGS. SEE TYPICAL DETAILS ON S500 SHEETS
10	STEEL SILL FRAMING ABOVE, SEE DETAIL 3/S302 FOR INFORMATION, AND COORDINATE EXTENT OF OPENING WITH ARCH DRAWINGS.
11	STEEL SILL AND CANOPY CONNECTION FRAMING ABOVE, SEE DETAIL 11/S302 FOR INFORMATION, AND COORDINATE EXTENT OF OPENING AND CANOPY TIE BACKS WITH ARCH DRAWINGS.
12	STEEL CANOPY CONNECTION FRAMING ABOVE, SEE DETAIL 14/S304 FOR INFORMATION, AND COORDINATE EXTENT OF CANOPY TIE BACKS WITH ARCH DRAWINGS.

KEY PLAN



1 SECOND FLOOR FRAMING PLAN -AREA 2

1/8" = 1'-0"

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NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

Project Title

STATE OF NEW YORK
PATRICK JAMES WILLIAMS
100938
LICENSED PROFESSIONAL ENGINEER

No.	DATE	DESCRIPTION

Drawn By:	JRV
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2302
Issued for Bid:	4/15/2024

Sheet Title
SECOND FLOOR FRAMING PLAN - AREA 2

Sheet No.
CTE S122

CONSTRUCTION DOCUMENTS

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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 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)
	DENTOES MASONRY SHEAR WALL
	DENOTES MASONRY FIRE WALL LOCATION, SEE ARCHITECTURAL DRAWINGS.
	DENOTES MASONRY SHEAR WALL BELOW
####	DENOTES UL ASSEMBLY RATING, REFER TO ARCH DRAWINGS FOR SPRAY FIREPROOFING REQUIREMENTS.

FRAMING PLAN NOTES:

1. SEE SHEET S001 THROUGH S008 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS.
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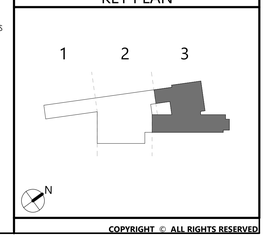
8. ALL BEAMS INDICATED WITH A UL ASSEMBLY RATING ARE TO BE SPRAY FIREPROOFED ACCORDING TO UL ASSEMBLY REQUIRMENTS. NOT ALL BEAMS EXTENT IS REQUIRED TO BE FIREPROOFED. REFER TO ARCH DRAWINGS FOR AREA REQUIREMENTS/EXTENTS.
9. MASONRY LINTELS SHOWN ON PLAN ARE FOR THE HEAD OF OPENINGS ASSOCIATED WITH THE SECOND FLOOR. COORDINATE LOCATIONS AND HEIGHTS WITH ARCH DRAWINGS.

SECOND FLOOR PLAN KEYNOTES

#	
1	CONTROL JOINT IN CMU WALL TO SEPARATE SHEAR WALL, SEE TYPICAL DETAILS
2	PREFABRICATED CANOPY, REFER TO ARCH FOR DIMENSIONS AND LOCATIONS
3	HUNG STEEL LINTEL FRAMING BELOW, SEE DETAIL 2/S302 FOR INFORMATION, AND COORDINATE EXTENT OF OPENING WITH ARCH DRAWINGS.
4	2" EXPANSION JOINT IN CMU WALL, SEE ARCH FOR EJ COVER
5	ROOF OPENING ANGLE SUBFRAMING, SEE TYPICAL DETAIL
6	VEHICLE EXAUST REEL, HUNG FROM JOISTS ABOVE, SEE DETAIL FOR HUNG STRUCTURE
7	STAIR AND RAILING FRAMING BY DELEGATED DESIGNER, TYP
8	CAST IN PLACE BOND BEAM AT SILL OF OPENING ABOVE, SEE APPLICABLE DETAIL
9	6" EQUIPMENT PAD, COORDINATE EXACT LOCATION AND DIMENSIONAL REQUIREMENTS WITH MEP DRAWINGS, SEE TYPICAL DETAILS ON S500 SHEETS
10	STEEL SILL FRAMING ABOVE, SEE DETAIL 3/S302 FOR INFORMATION, AND COORDINATE EXTENT OF OPENING WITH ARCH DRAWINGS.
11	STEEL SILL AND CANOPY CONNECTION FRAMING ABOVE, SEE DETAIL 11/S302 FOR INFORMATION, AND COORDINATE EXTENT OF OPENING AND CANOPY TIE BACKS WITH ARCH DRAWINGS.
12	STEEL CANOPY CONNECTION FRAMING ABOVE, SEE DETAIL 14/S304 FOR INFORMATION, AND COORDINATE EXTENT OF CANOPY TIE BACKS WITH ARCH DRAWINGS.

KEY PLAN



1 SECOND FLOOR FRAMING PLAN - AREA 3

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

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NEW CTE BUILDING

Project Title

PATRICK JAMES WILLIAMS
100938
LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2302
Issued for Bid:	4/15/2024

Sheet Title
SECOND FLOOR FRAMING PLAN - AREA 3

Sheet No.
CTE S123

CONSTRUCTION DOCUMENTS

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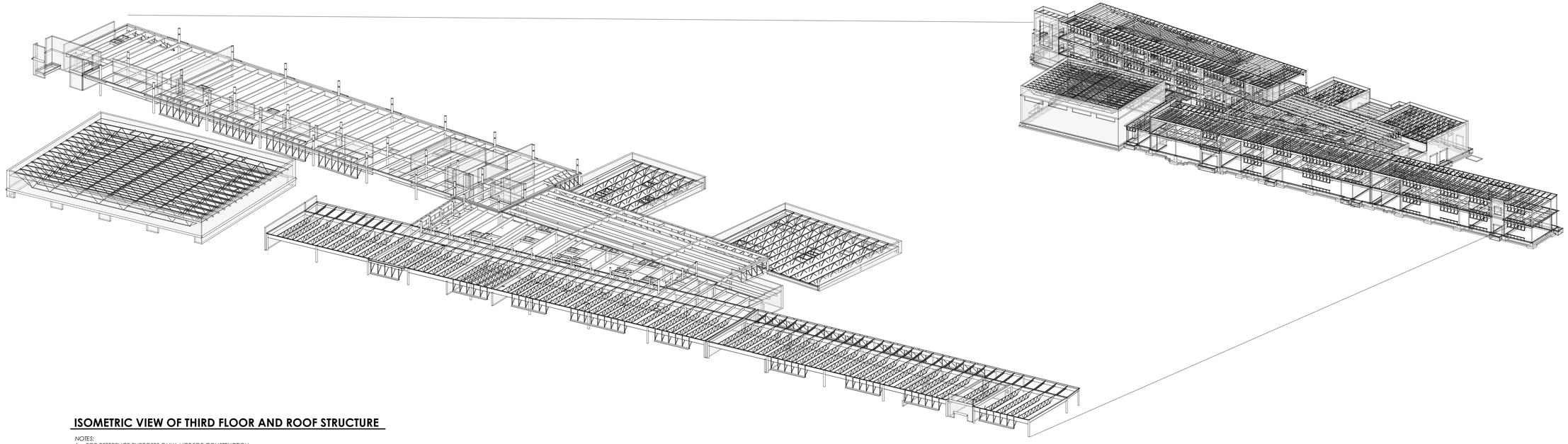
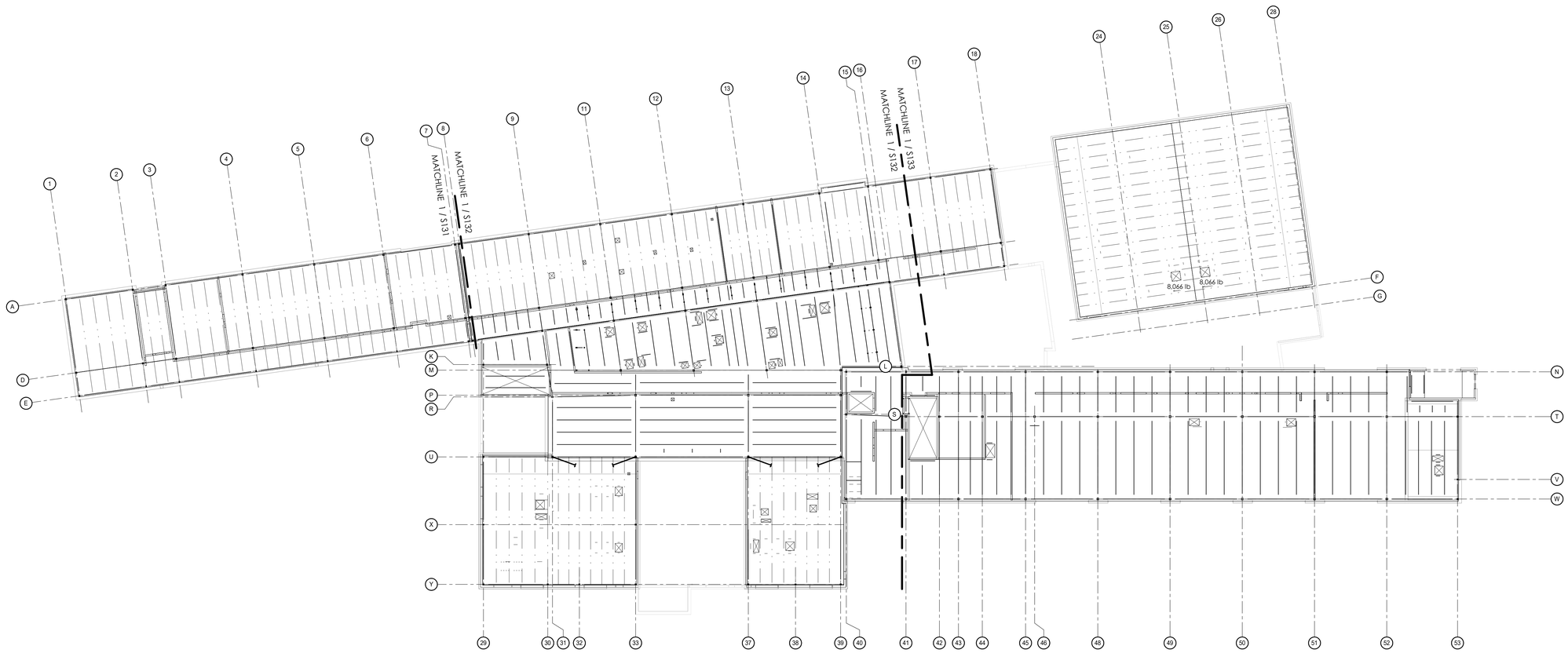


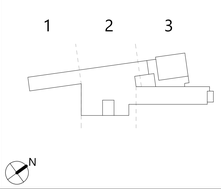
ISOMETRIC VIEW OF THIRD FLOOR AND ROOF STRUCTURE

NOTES:
1. *FOR REFERENCE PURPOSES ONLY. NOT FOR CONSTRUCTION*
2. *ISOMETRIC VIEW MAY NOT BE AN ACCURATE REPRESENTATION OF FRAMING CONDITIONS. SEE PLANS AND SECTIONS FOR ALL CONDITIONS.*



1 OVERALL THIRD FLOOR AND ROOF FRAMING PLAN
3/64" = 1'-0"

KEY PLAN



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Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2302
Issued for Bid:	4/15/2024

Sheet Title
OVERALL THIRD FLOOR/ ROOF FRAMING PLAN

Sheet No.
CTE S130

CONSTRUCTION DOCUMENTS

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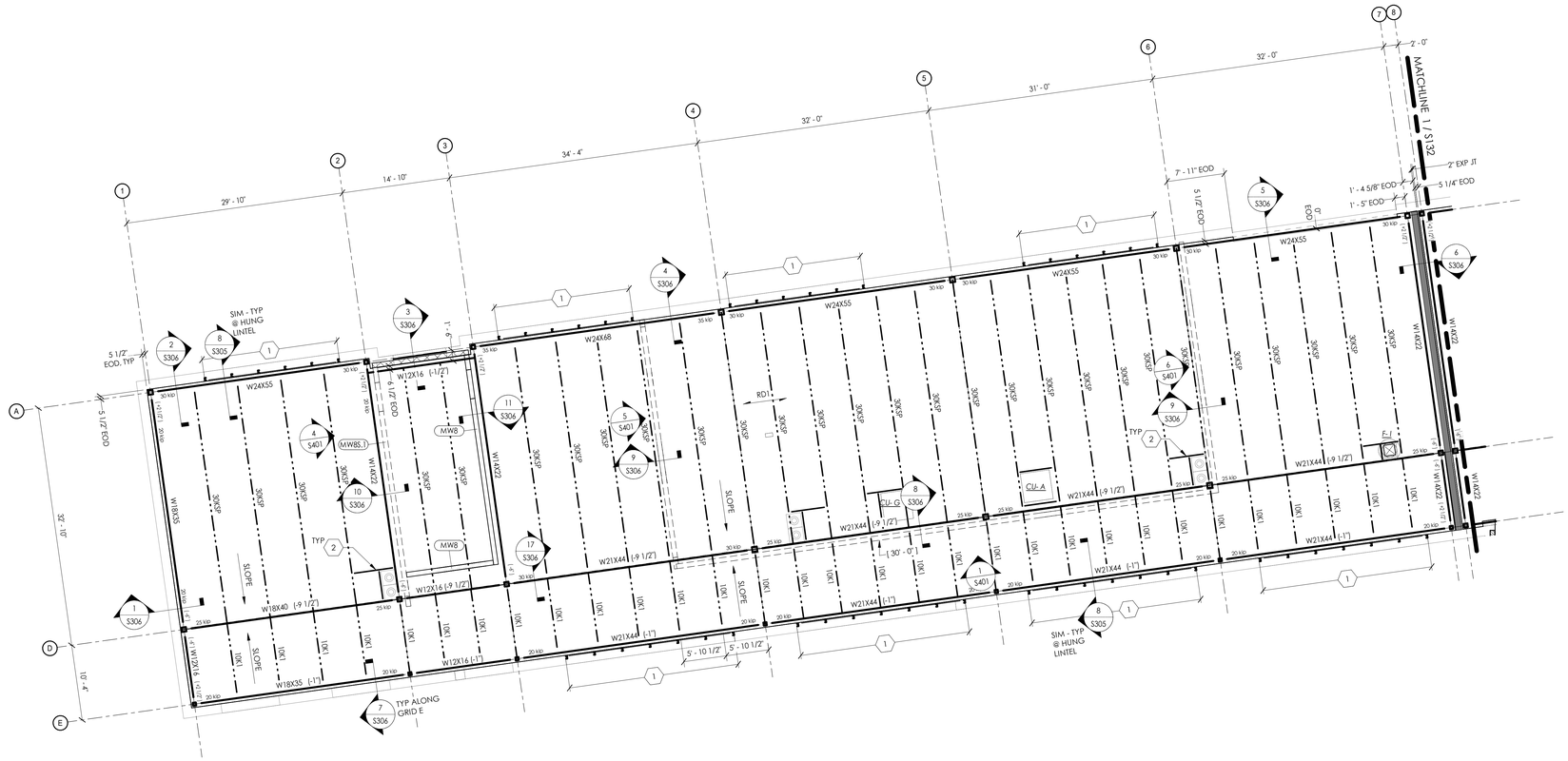


1 THIRD FLOOR AND ROOF FRAMING PLAN - AREA 1

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
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 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)
	DENTOES MASONRY SHEAR WALL
	DENOTES MASONRY FIRE WALL LOCATION, SEE ARCHITECTURAL DRAWINGS.
	DENOTES MASONRY SHEAR WALL BELOW
####	DENOTES UL ASSEMBLY RATING, REFER TO ARCH DRAWINGS FOR SPRAY FIREPROOFING REQUIREMENTS.

FRAMING PLAN NOTES:

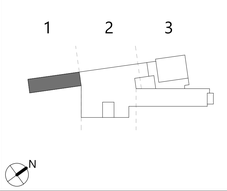
1. SEE SHEET S001 THROUGH S008 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS.
3. TOP OF STEEL ELEVATION = + 31' - 6 1/2", UNLESS OTHERWISE NOTED ON PLAN AS (+/- X' - X") RELATIVE TO TOP OF STEEL ELEVATION.
4. SEE ARCH AND MEP DRAWINGS FOR REQUIRED THRU-DECK OPENINGS.
5. UNLESS NOTED OTHERWISE, ALL STEEL BEAMS ARE TO BE SPACED EQUALLY BETWEEN COLUMN GRID LINES.
6. COORDINATE ALL OPENINGS IN WALLS WITH ARCH AND MEP DRAWINGS. OPENINGS NOT INDICATED ON PLANS SHALL CONFORM TO S500 SERIES TYPICAL DETAIL REQUIREMENTS.
7. 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.
8. ALL JOISTS WITH (A = ## kip) AFTER JOIST TAG ARE TO BE DESIGNED FOR THAT FORCE AS AN ADDITIONAL FACTORED TOP CHORD AXIAL FORCE IN TENSION OR COMPRESSION.
9. POINT LOADS SHOWN ON GYM ROOF FRAMING PLAN ARE SCHEDULED IN JOIST LOADING DETAIL 8/S506.
10. MASONRY LINTELS SHOWN ON PLAN ARE FOR THE HEAD OF OPENINGS ASSOCIATED WITH THE THIRD FLOOR. COORDINATE LOCATIONS AND HEIGHTS WITH ARCH DRAWINGS.

(#) ROOF FRAMING PLAN

1 HUNG STEEL LINTEL FRAMING BELOW, SEE DETAIL 8/S305 FOR INFORMATION, AND COORDINATE EXTENT OF OPENING WITH ARCH DRAWINGS.

2 ROOF OPENING ANGLE SUBFRAMING, SEE TYPICAL DETAIL

KEY PLAN



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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

STATE OF NEW YORK
PATRICK JAMES WILLIAMS
100936
DESIGNATED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
THIRD FLOOR/ ROOF FRAMING PLAN - AREA 1

Sheet No.
CTE S131

CONSTRUCTION DOCUMENTS

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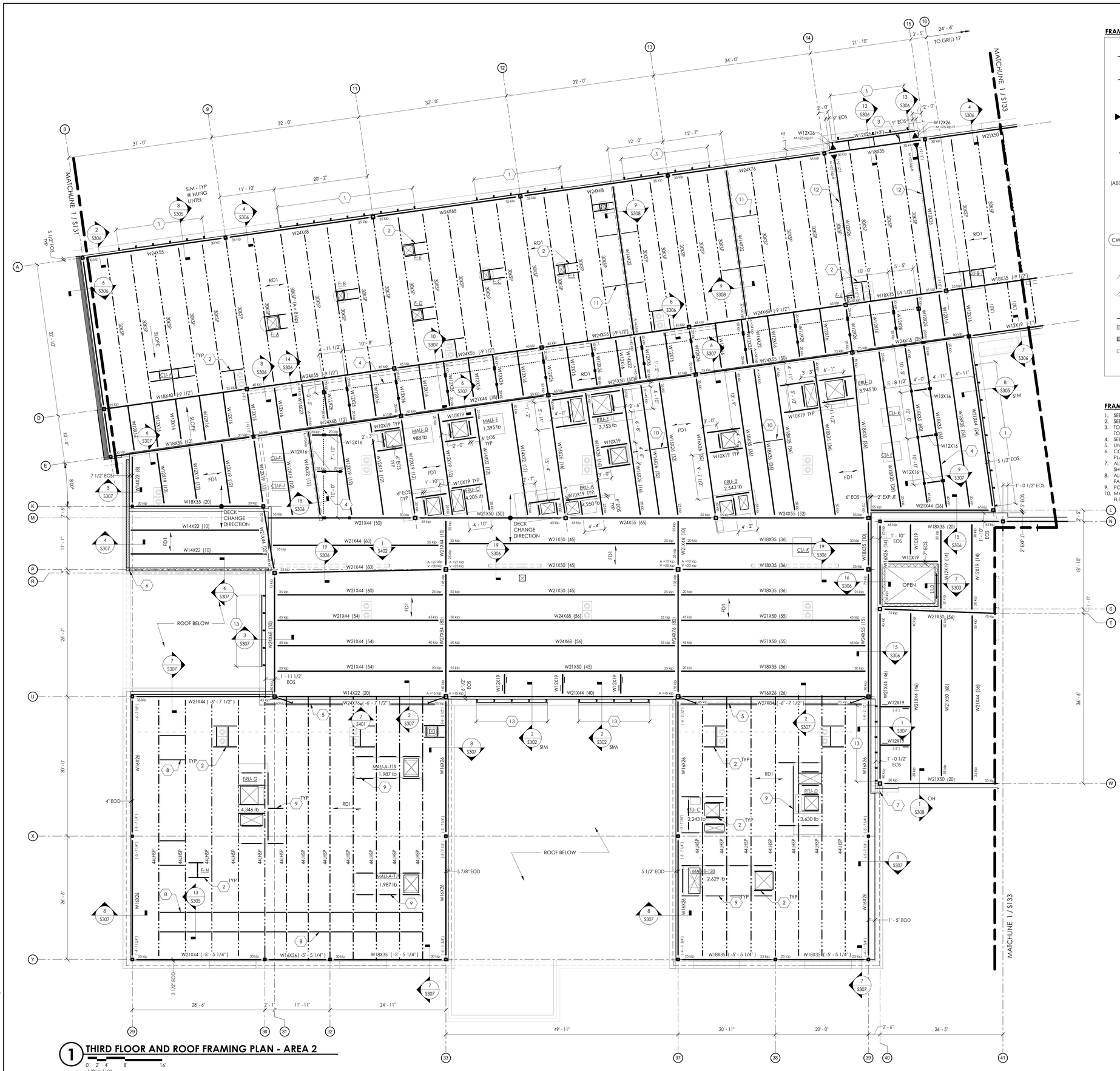


1 THIRD FLOOR AND ROOF FRAMING PLAN - AREA 2

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
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 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)
	DENTOES MASONRY SHEAR WALL
	DENOTES MASONRY FIRE WALL LOCATION, SEE ARCHITECTURAL DRAWINGS.
	DENOTES MASONRY SHEAR WALL BELOW
####	DENOTES UL ASSEMBLY RATING, REFER TO ARCH DRAWINGS FOR SPRAY FIREPROOFING REQUIREMENTS.

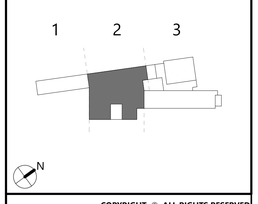
FRAMING PLAN NOTES:

1. SEE SHEET S001 THROUGH S008 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS.
3. TOP OF STEEL ELEVATION = + 31' - 6 1/2", UNLESS OTHERWISE NOTED ON PLAN AS (+/- X' - X") RELATIVE TO TOP OF STEEL 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. COORDINATE ALL OPENINGS IN WALLS WITH ARCH AND MEP DRAWINGS. OPENINGS NOT INDICATED ON PLANS SHALL CONFORM TO S500 SERIES TYPICAL DETAIL REQUIREMENTS.
7. 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.
8. ALL JOISTS WITH (A = ## kip) AFTER JOIST TAG ARE TO BE DESIGNED FOR THAT FORCE AS AN ADDITIONAL FACTORED TOP CHORD AXIAL FORCE IN TENSION OR COMPRESSION.
9. POINT LOADS SHOWN ON GYM ROOF FRAMING PLAN ARE SCHEDULED IN JOIST LOADING DETAIL 8/S506.
10. MASONRY LINTELS SHOWN ON PLAN ARE FOR THE HEAD OF OPENINGS ASSOCIATED WITH THE THIRD FLOOR. COORDINATE LOCATIONS AND HEIGHTS WITH ARCH DRAWINGS.

ROOF/THIRD FLOOR FRAMING PLAN KEYNOTES

1 HUNG STEEL LINTEL FRAMING BELOW, SEE DETAIL 8/S305 FOR INFORMATION, AND COORDINATE EXTENT OF OPENING WITH ARCH DRAWINGS.
2 ROOF OPENING ANGLE SUBFRAMING, SEE TYPICAL DETAIL
3 L2x2x3/8, TYP OF (3) INFILL FRAMING
4 MECHANICAL SCREEN CHANNEL SUPPORT FRAMING ABOVE, TYP, SEE DETAIL C/S305
5 PAIR OF CONTINUOUS ANGLES OVER JOISTS, SEE APPLICABLE DETAILS
6 CONTROL JOINT IN CMU WALL TO SEPARATE SHEAR WALL, SEE TYPICAL DETAILS
7 2" EXPANSION JOINT IN CMU WALL, SEE ARCH FOR EJ COVER
8 ANGLE SUB FRAMING TO SUPPORT HUNG VECHICLE EXAHUST REELS. SEE APPLICABLE DETAIL AND COORDINATE WITH MECH DRAWINGS.
9 L6x4x3/8 (LLV) SUBFRAMING BELOW RTU CURB, COORDINATE LOCATIONS/EXTENTS WITH FINAL SELECTED EQUIPMENT MANUFACTURER
10 L4x4x1/4 ANGLE BRACE FROM BOTTOM FLANGE OF CENTER BEAM TO ADJACENT BEAM TOP FLANGE.
11 L4x4x1/4 ANGLE BRACE FROM BOTTOM FLANGE OF BEAM TO ADJACENT JOIST TOP CHORD AT THIRD POINTS OF BEAM LENGTH, TYP AT SHEAR WALLS
12 SUPPLEMENTAL DECK SUPPORT ANGLES (SIM TO SECTION 8/S307) ON EACH SIDE OF BEAM FLANGE.
13 HUNG STEEL LINTEL FRAMING BELOW, SEE APPLICABLE DETAILS FOR INFORMATION, AND COORDINATE EXTENT OF OPENING WITH ARCH DRAWINGS.

KEY PLAN



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NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

Project Title

STATE OF NEW YORK PATRICK JAMES WILLIAMS 100938 LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
THIRD FLOOR/ ROOF FRAMING PLAN - AREA 2

Sheet No.
CTE S132

CONSTRUCTION DOCUMENTS

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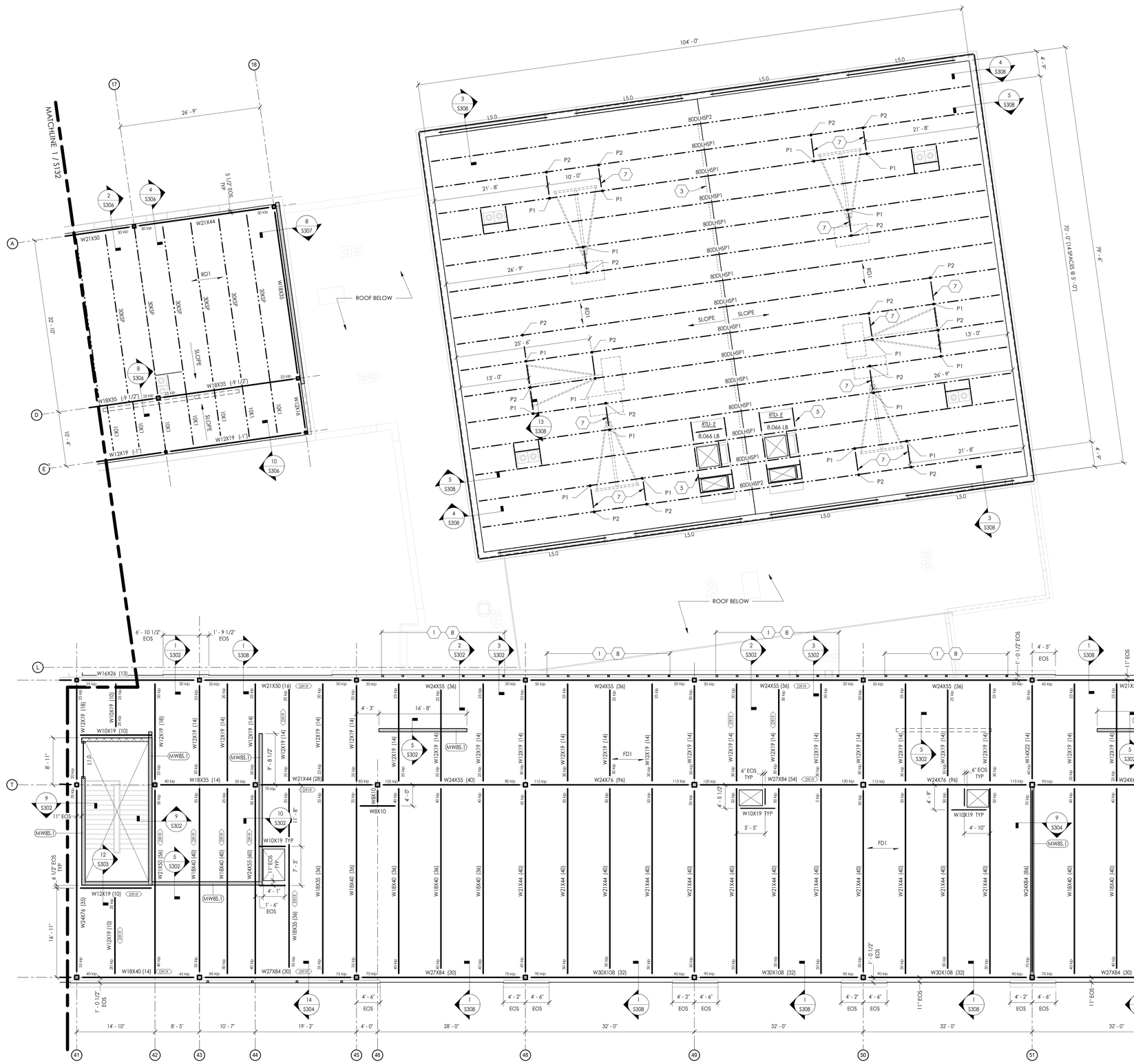


FRAMING LEGEND

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 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 SCHEDULE)
	DENTOES MASONRY SHEAR WALL
	DENOTES MASONRY FIRE WALL LOCATION. SEE ARCHITECTURAL DRAWINGS.
	DENOTES MASONRY SHEAR WALL BELOW
####	DENOTES UL ASSEMBLY RATING. REFER TO ARCH DRAWINGS FOR SPRAY FIREPROOFING REQUIREMENTS.

FRAMING PLAN NOTES:

1. SEE SHEET S001 THROUGH S008 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS.
3. TOP OF STEEL ELEVATION = + 31' - 6 1/2", UNLESS OTHERWISE NOTED ON PLAN AS (+/- X' - X") RELATIVE TO TOP OF STEEL 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. COORDINATE ALL OPENINGS IN WALLS WITH ARCH AND MEP DRAWINGS. OPENINGS NOT INDICATED ON PLANS SHALL CONFORM TO S500 SERIES TYPICAL DETAIL REQUIREMENTS.
7. 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.
8. ALL JOISTS WITH (A = ## kip) AFTER JOIST TAG ARE TO BE DESIGNED FOR THAT FORCE AS AN ADDITIONAL FACTORED TOP CHORD AXIAL FORCE IN TENSION OR COMPRESSION.
9. POINT LOADS SHOWN ON GYM ROOF FRAMING PLAN ARE SCHEDULED IN JOIST LOADING DETAIL 8/SS06.
10. MASONRY LINTELS SHOWN ON PLAN ARE FOR THE HEAD OF OPENINGS ASSOCIATED WITH THE THIRD FLOOR. COORDINATE LOCATIONS AND HEIGHTS WITH ARCH DRAWINGS.

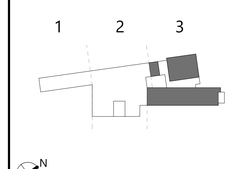
(#) ROOF/THIRD FLOOR FRAMING PLAN KEYNOTES

1 HUNG STEEL LINTEL FRAMING BELOW, SEE DETAIL 2/S302 FOR INFORMATION, AND COORDINATE EXTENT OF OPENING WITH ARCH DRAWINGS.
2 ROOF OPENING ANGLE SUBFRAMING, SEE TYPICAL DETAIL
3 WALK-DRAW CURTAIN HUNG FROM BOTTOM CHORD OF ROOF JOISTS.
4 CONTROL JOINT IN CMU WALL TO SEPARATE SHEAR WALL. SEE TYPICAL DETAILS
5 L6x4x3/8 (LLV) SUBFRAMING BELOW RTU CURB. COORDINATE LOCATIONS/EXTENTS WITH FINAL SELECTED EQUIPMENT MANUFACTURER
6 STAIR AND RAILING FRAMING BY DELEGATED DESIGNER, TYP
7 C7X9.8 SUBFRAMING ABOVE BASKETBALL HOOP FRAME, SEE DETAIL. COORDINATE LOCATIONS/EXTENTS WITH FINAL SELECTED EQUIPMENT MANUFACTURER
8 <varies>

1 THIRD FLOOR AND ROOF FRAMING PLAN - AREA 3

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

KEY PLAN



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NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

Project Title

STATE OF NEW YORK
PATRICK JAMES WILLIAMS
100938
LICENSED PROFESSIONAL ENGINEER

No.	DATE	DISCRIPTION

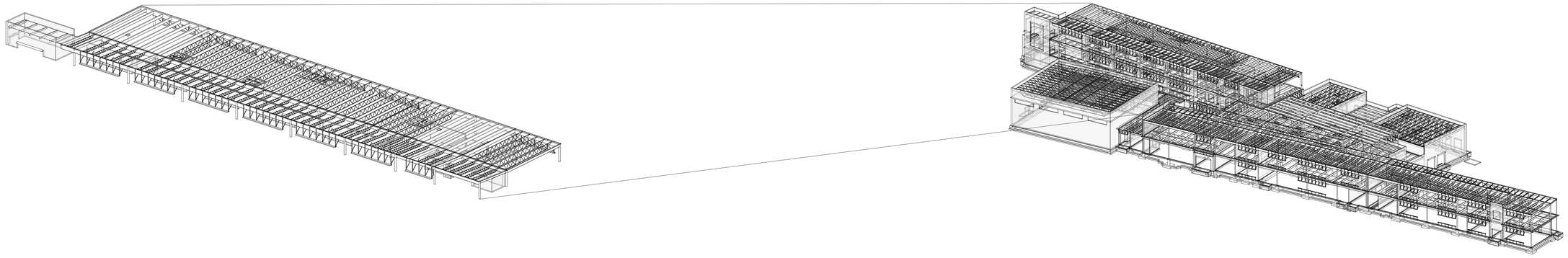
Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
THIRD FLOOR/ ROOF FRAMING PLAN - AREA 3

Sheet No.
CTE S133

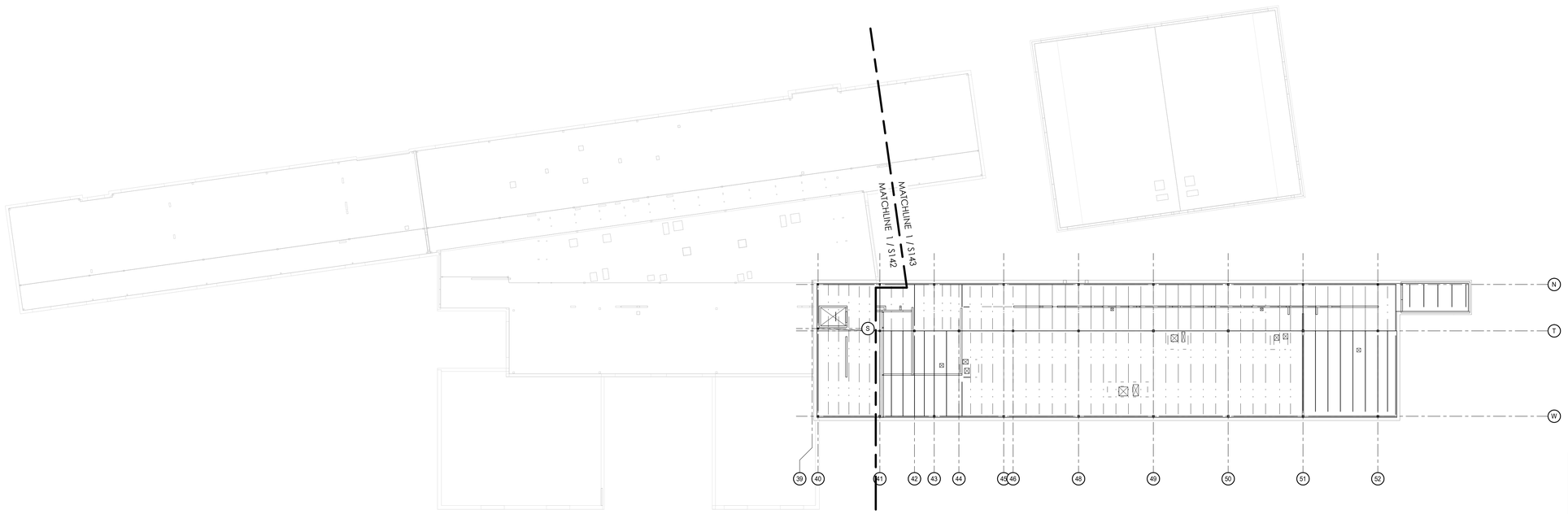
CONSTRUCTION DOCUMENTS

Autodesk Docs://NECSD - New CTE Bldg/NECSD CTE - Struct.rvt



ISOMETRIC VIEW OF HIGH ROOF STRUCTURE

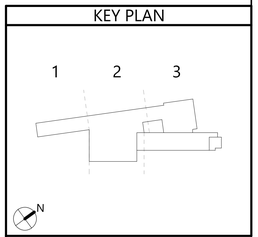
NOTES:
1. *FOR REFERENCE PURPOSES ONLY. NOT FOR CONSTRUCTION*
2. *ISOMETRIC VIEW MAY NOT BE AN ACCURATE REPRESENTATION OF FRAMING CONDITIONS. SEE PLANS AND SECTIONS FOR ALL CONDITIONS.*



1 OVERALL HIGH ROOF FRAMING PLAN

3/64" = 1'-0"

KEY PLAN



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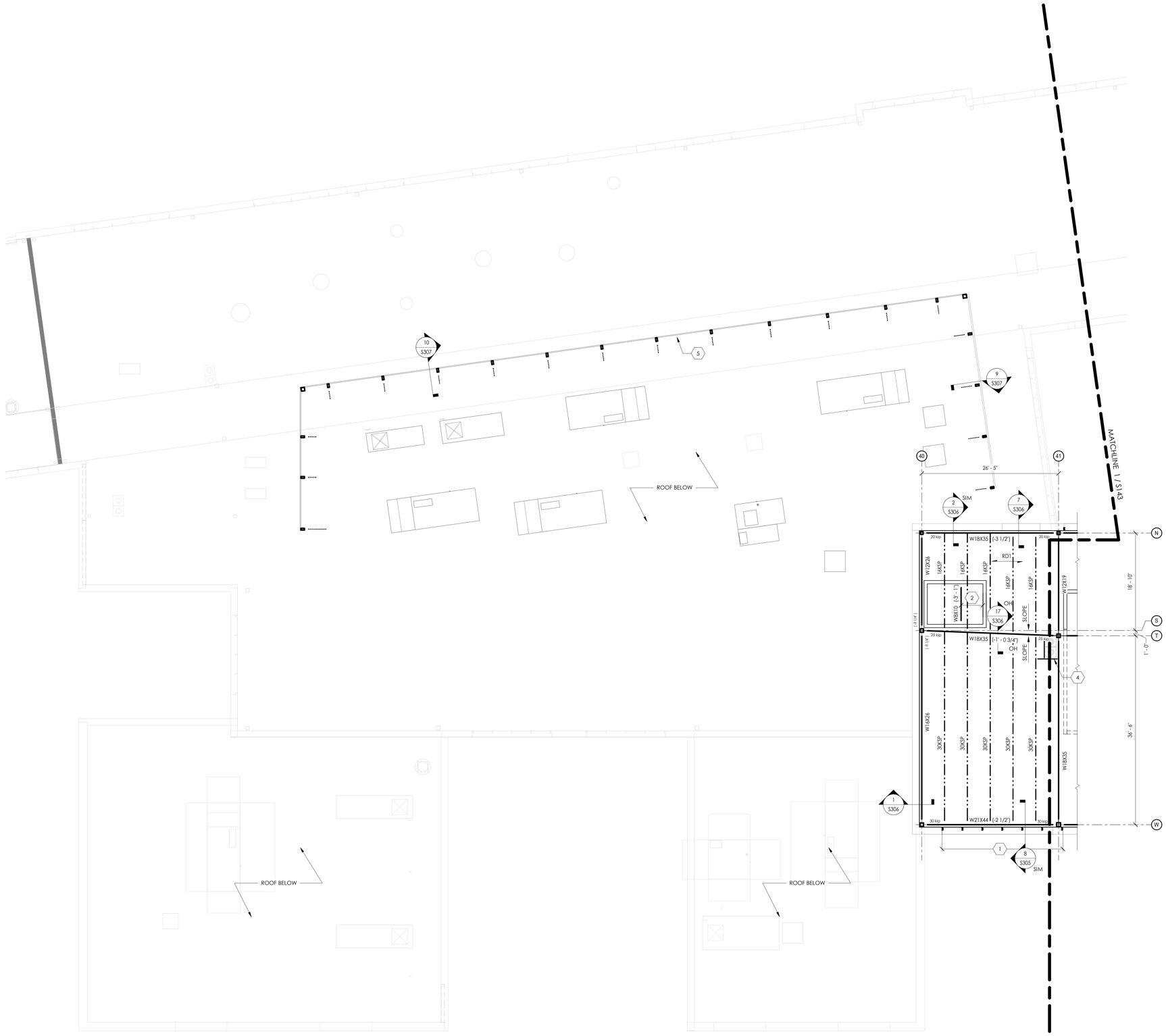
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
OVERALL HIGH ROOF FRAMING PLAN

Sheet No.
CTE S140

CONSTRUCTION DOCUMENTS

Autodesk Docs://NECSD - New CTE Bldg/NECSD CTE - Struct.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 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)
	DENTOES MASONRY SHEAR WALL
	DENOTES MASONRY FIRE WALL LOCATION, SEE ARCHITECTURAL DRAWINGS.
	DENOTES MASONRY SHEAR WALL BELOW
####	DENOTES UL ASSEMBLY RATING, REFER TO ARCH DRAWINGS FOR SPRAY FIREPROOFING REQUIREMENTS.

FRAMING PLAN NOTES:

1. SEE SHEET S001 THROUGH S008 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS.
3. TOP OF STEEL ELEVATION = + 48' - 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. COORDINATE ALL OPENINGS IN WALLS WITH ARCH AND MEP DRAWINGS. OPENINGS NOT INDICATED ON PLANS SHALL CONFORM TO S500 SERIES TYPICAL DETAIL REQUIREMENTS.

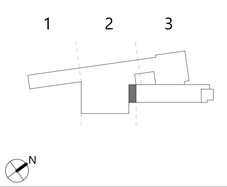
HIGH ROOF FRAMING PLAN KEYNOTES

1	HUNG STEEL LINTEL FRAMING BELOW. SEE DETAIL 8/S305 FOR INFORMATION, AND COORDINATE EXTENT OF OPENING WITH ARCH DRAWINGS.
2	4' - 2 11/16" FROM INSIDE FACE OF MASONRY WALL. COORDINATE HOIST BEAM AND LOCATION WITH SELECTED EQUIPMENT MANUFACTURER
4	ROOF OPENING ANGLE SUBFRAMING, SEE TYPICAL DETAIL
5	MECHANICAL SCREEN SUPPORTING STRUCTURE BELOW, SEE APPLICABLE DETAIL

1 HIGH ROOF FRAMING PLAN - AREA 2

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

KEY PLAN



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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT NEW CTE BUILDING

STATE OF NEW YORK PATRICK JAMES WILLIAMS 100938 LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2302
Issued for Bid:	4/15/2024

Sheet Title
HIGH ROOF FRAMING PLAN - AREA 2

Sheet No.
CTE S142

CONSTRUCTION DOCUMENTS

Autodesk Docs://NECSD - New CTE Bldg/NECSD CTE - Struct.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 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)
	DENTOES MASONRY SHEAR WALL
	DENOTES MASONRY FIRE WALL LOCATION, SEE ARCHITECTURAL DRAWINGS.
	DENOTES MASONRY SHEAR WALL BELOW
####	DENOTES UL ASSEMBLY RATING, REFER TO ARCH DRAWINGS FOR SPRAY FIREPROOFING REQUIREMENTS.

FRAMING PLAN NOTES:

1. SEE SHEET S001 THROUGH S008 FOR GENERAL NOTES, DESIGN CRITERIA, SCHEDULES, AND LEGENDS.
2. SEE SHEET S500 SERIES FOR TYPICAL DETAILS.
3. TOP OF STEEL ELEVATION = + 48' - 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. COORDINATE ALL OPENINGS IN WALLS WITH ARCH AND MEP DRAWINGS. OPENINGS NOT INDICATED ON PLANS SHALL CONFORM TO S500 SERIES TYPICAL DETAIL REQUIREMENTS.

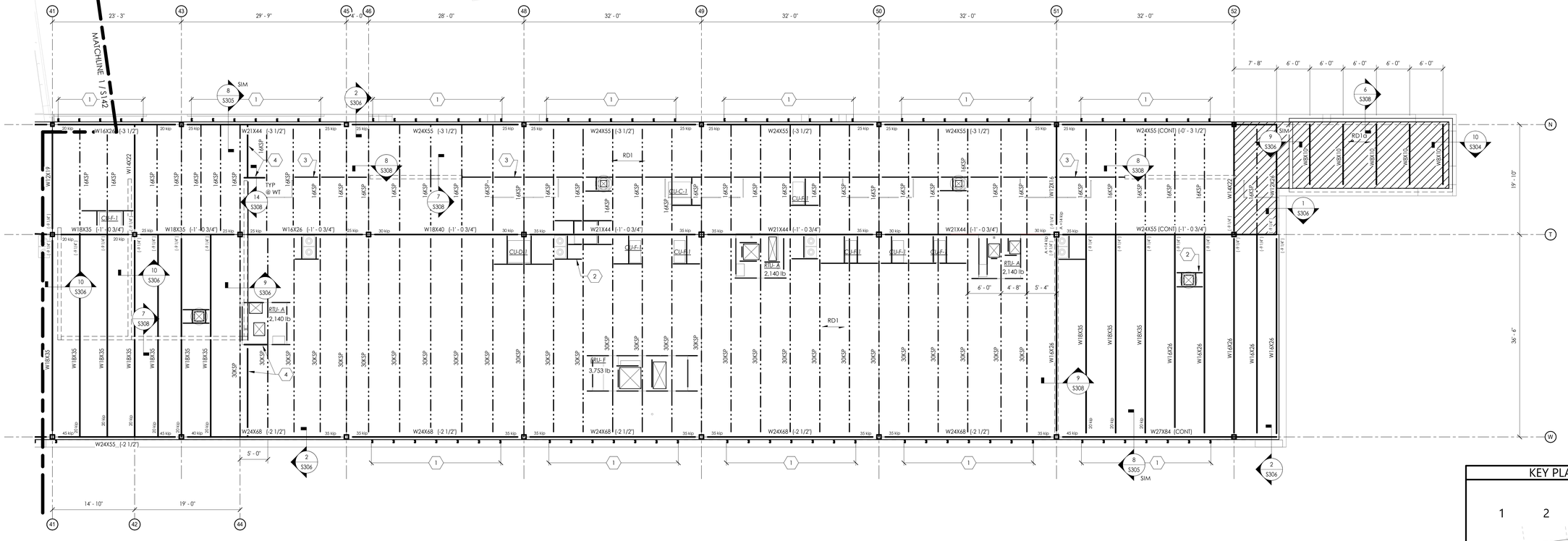
(#) ROOF FRAMING PLAN

1 HUNG STEEL LINTEL FRAMING BELOW. SEE DETAIL 8/S305 FOR INFORMATION, AND COORDINATE EXTENT OF OPENING WITH ARCH DRAWINGS.
2 ROOF OPENING ANGLE SUBFRAMING, SEE TYPICAL DETAIL
3 2L8x4x7/16 SSBB. FASTEN DECK TO ANGLES WITH #12 SCREWS @ 12" OC.
4 WT8X20 CONNECTED TO ROOF DIAPHRAGM WITH (2) #12 SCREWS @ 6" OC

ROOF BELOW

GYM ROOF BELOW

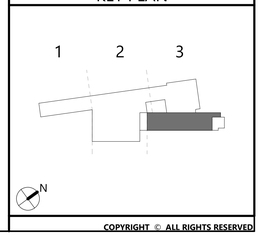
MATCHLINE 1/S142



1 HIGH ROOF FRAMING PLAN - AREA 3

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

KEY PLAN



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NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

Project Title

STATE OF NEW YORK
PATRICK JAMES WILLIAMS
100938
LICENSED PROFESSIONAL ENGINEER

No.	DATE	DESCRIPTION

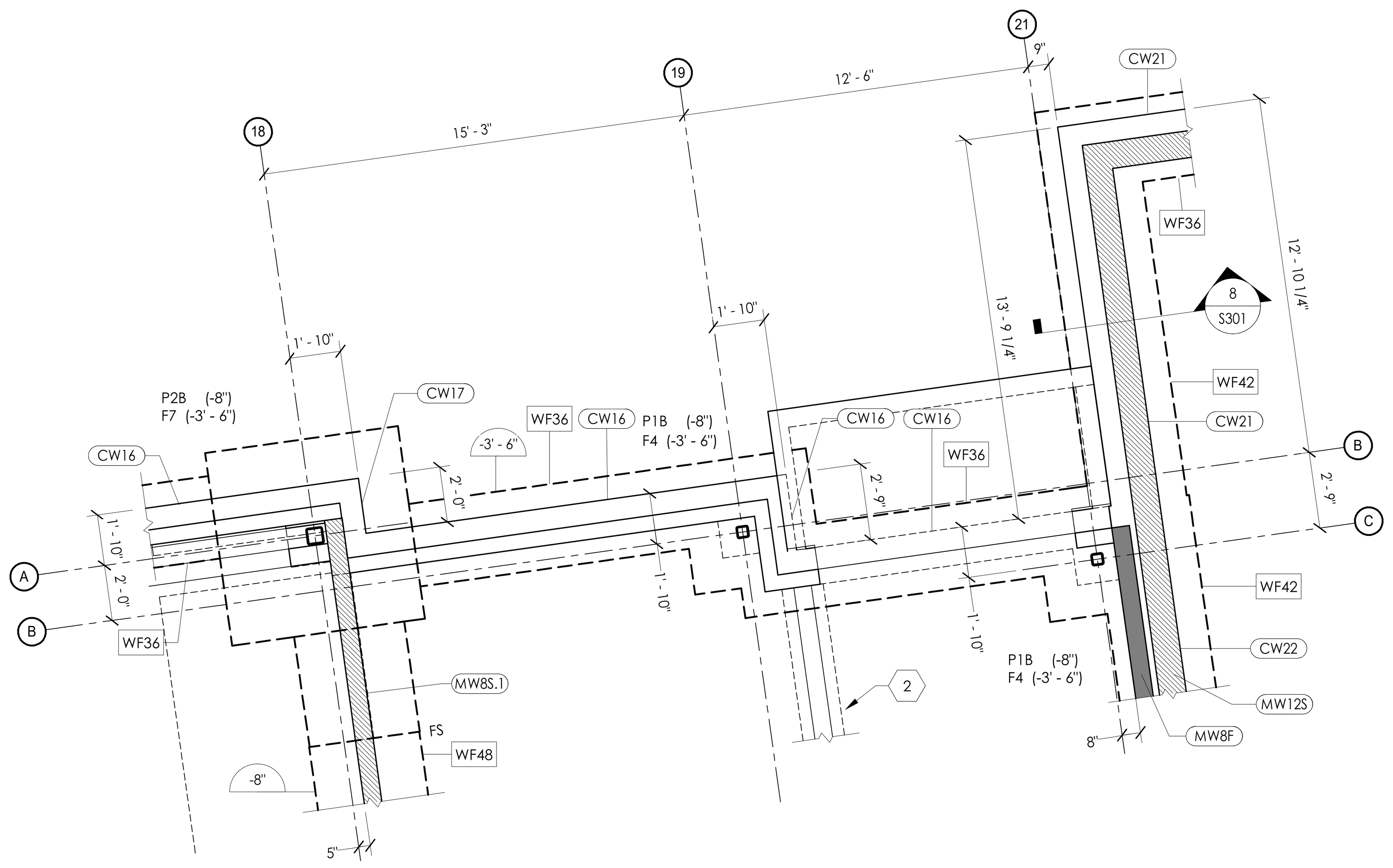
Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2302
Issued for Bid:	4/15/2024

Sheet Title
HIGH ROOF FRAMING PLAN - AREA 3

Sheet No.
CTE S143

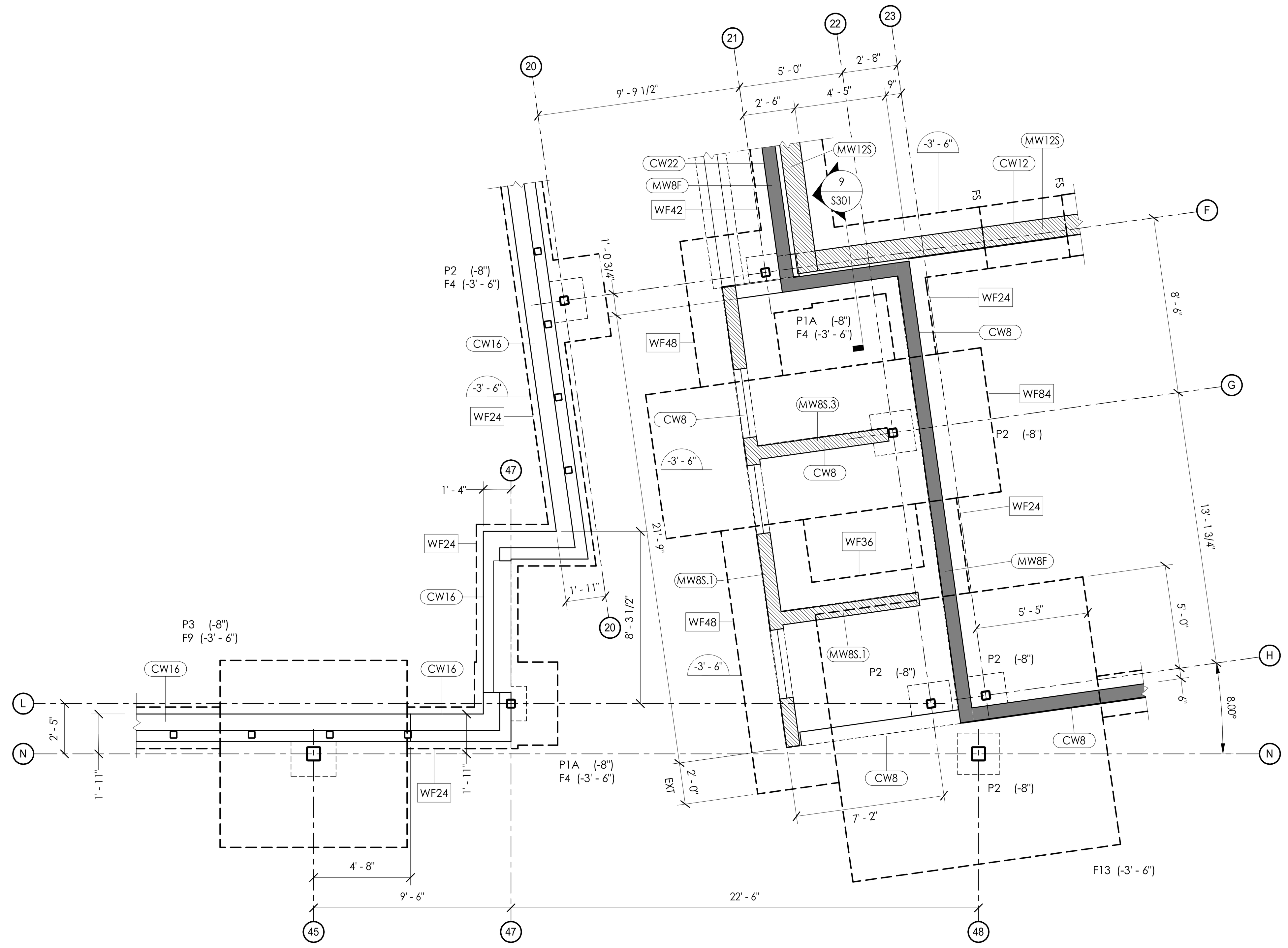
CONSTRUCTION DOCUMENTS

Autodesk Docs://NECSD - New CTE Bldg/NECSD CTE - Struct.rvt



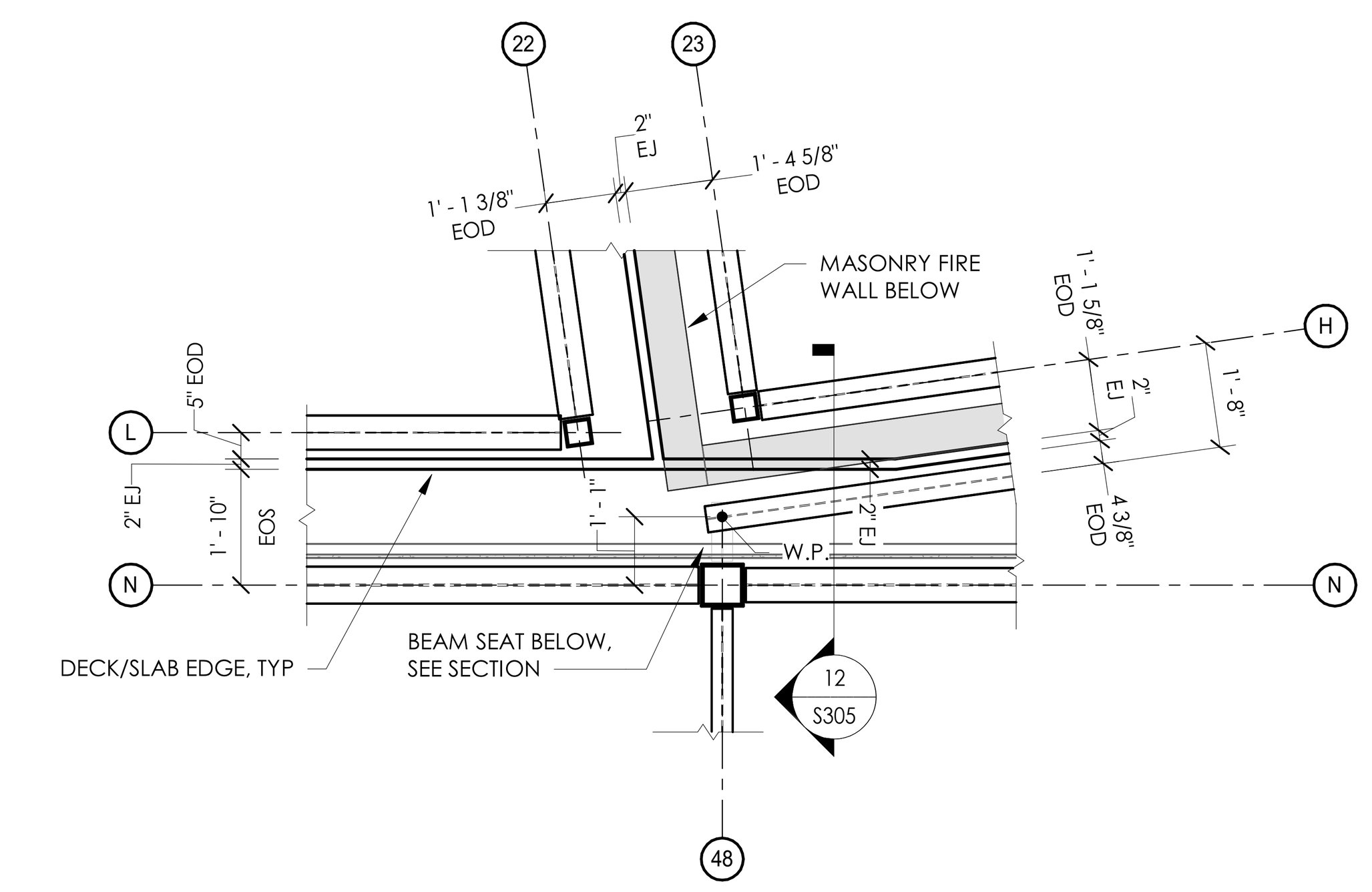
1 FOUNDATION PARTIAL PLAN

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



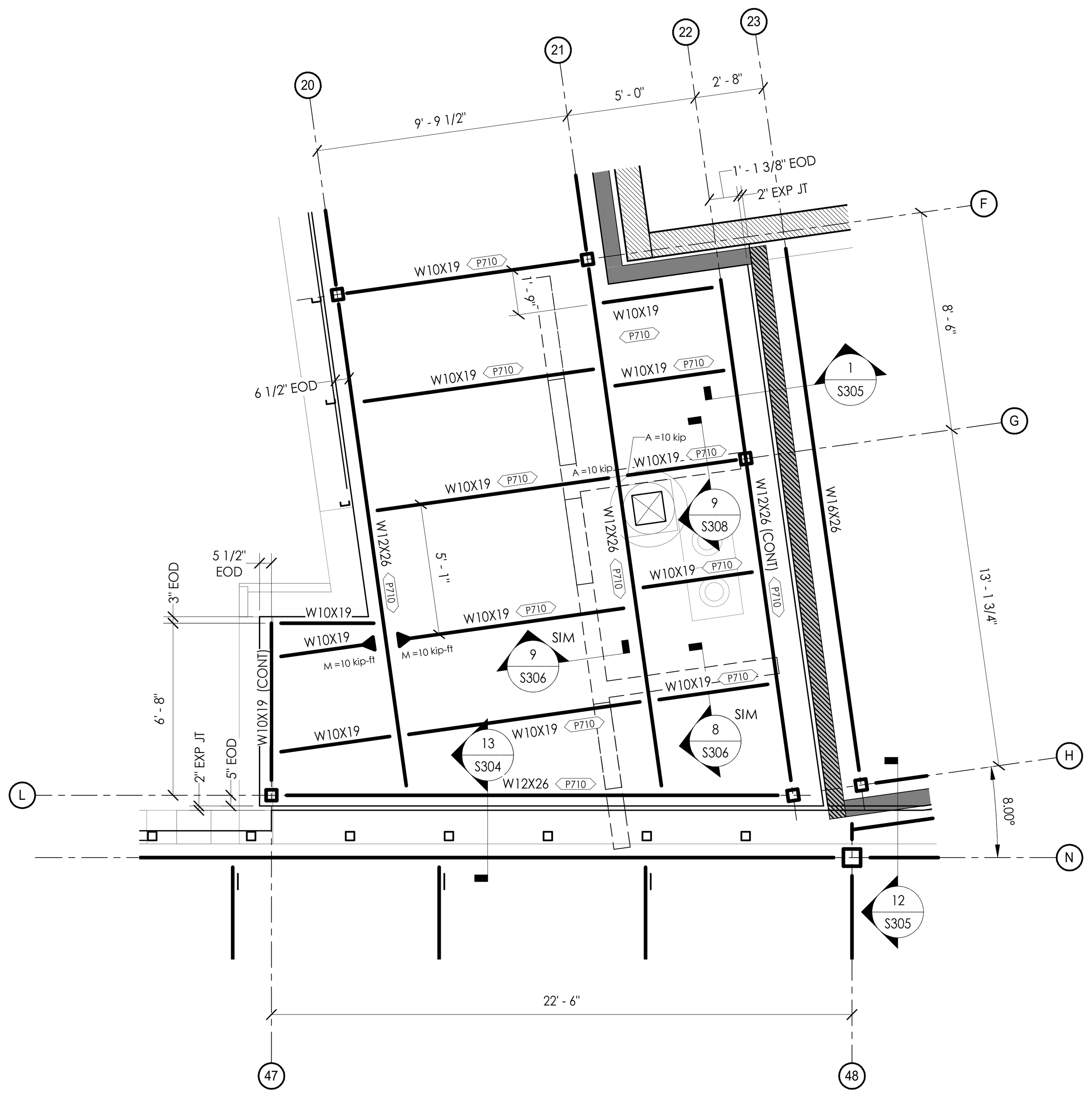
2 FOUNDATION PARTIAL PLAN

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



3 ENLARGED PARTIAL SECOND FLOOR FRAMING PLAN

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



4 SECOND FLOOR PARTIAL FRAMING PLAN

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

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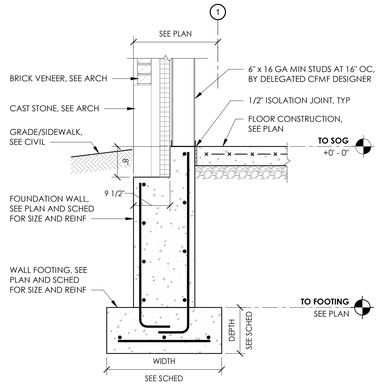
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
PARTIAL PLANS AND DETAILS

Sheet No.
CTE S201

CONSTRUCTION DOCUMENTS



1 FOUNDATION SECTION

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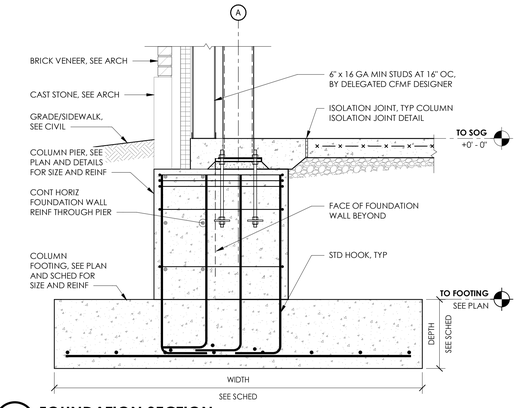
3/4" = 1'-0"



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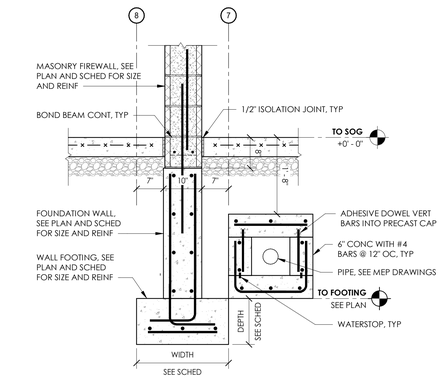

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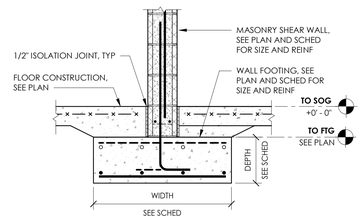

4 FOUNDATION SECTION

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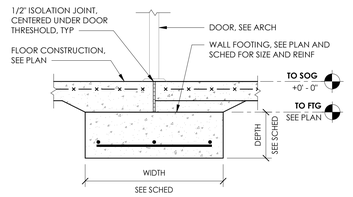
3/4" = 1'-0"



5 FOUNDATION SECTION

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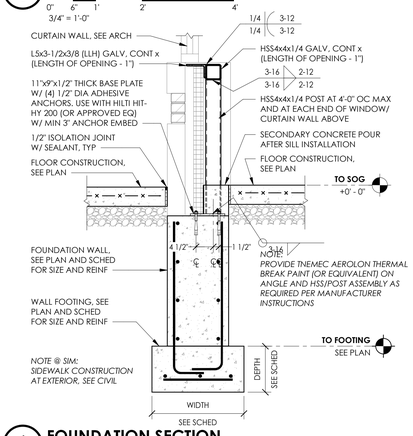
3/4" = 1'-0"



6 FOUNDATION SECTION

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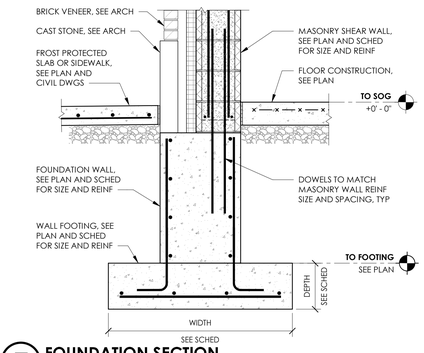
3/4" = 1'-0"



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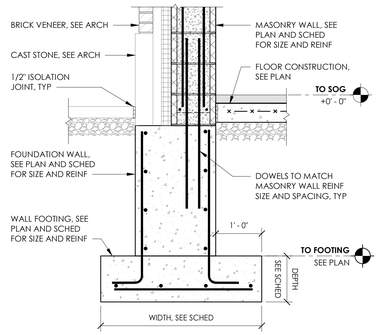

8 FOUNDATION SECTION

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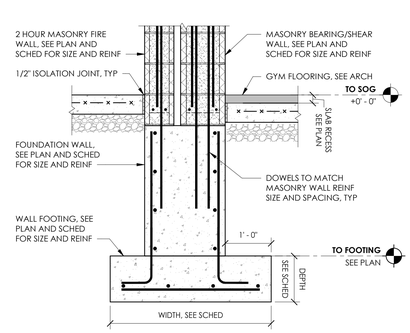
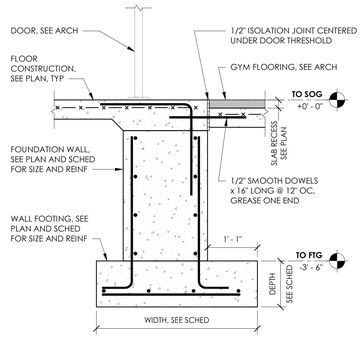
3/4" = 1'-0"



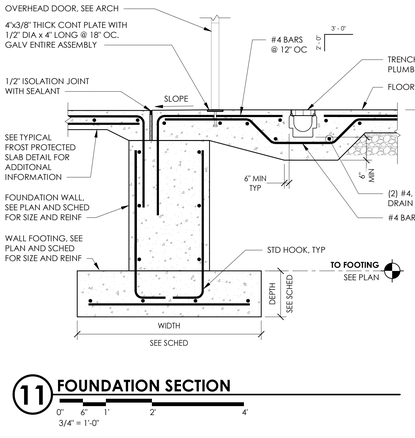
9 FOUNDATION SECTION

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



10 FOUNDATION SECTION

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



11 FOUNDATION SECTION

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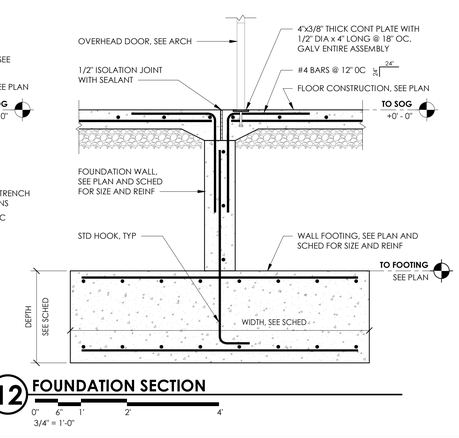
3/4" = 1'-0"



12 FOUNDATION SECTION

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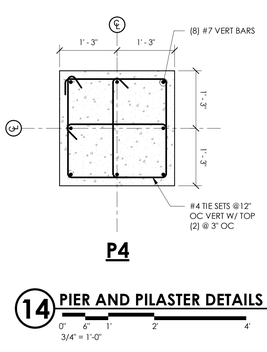
3/4" = 1'-0"



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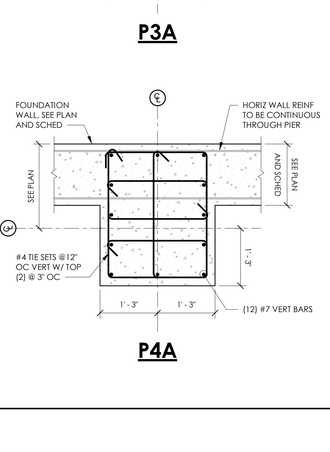
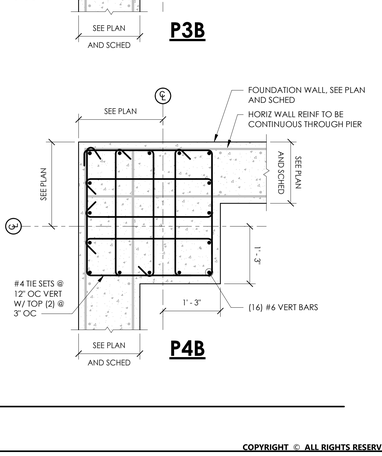


P1A

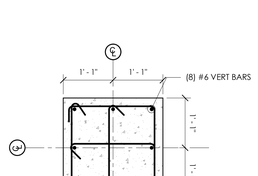


P1B

P2

P2A

P2B



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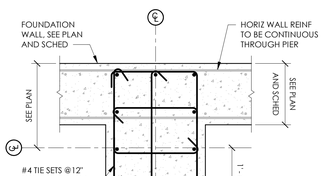

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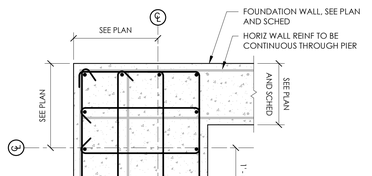

P3B

P4

P4A

P4B

14 PIER AND PILASTER DETAILS

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

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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

STATE OF NEW YORK · PATRICK JAMES WILLIAMS · 100938 · LICENSED PROFESSIONAL ENGINEER

No.	DATE	DESCRIPTION

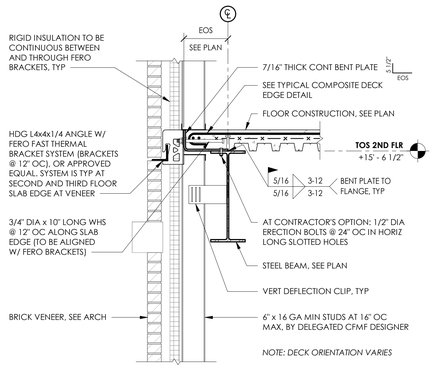
Drawn By:	JRV
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2302
Issued for Bid:	4/15/2024

Sheet Title
FOUNDATION SECTIONS AND DETAILS

Sheet No.
CTE S301

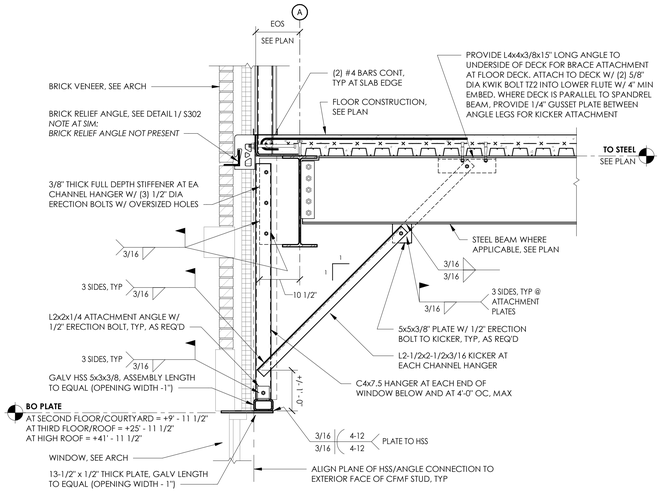
CONSTRUCTION DOCUMENTS

Autodesk Docs://NECSD - New CTE Bldg/NECSD CTE - Struct.rvt



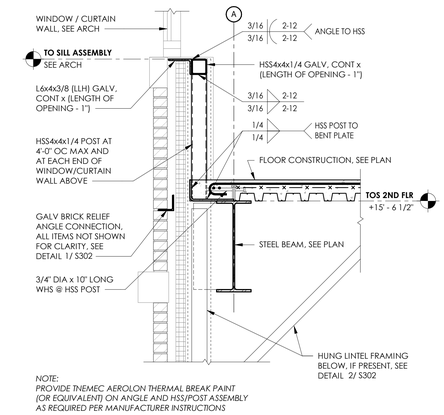
1 FRAMING SECTION

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



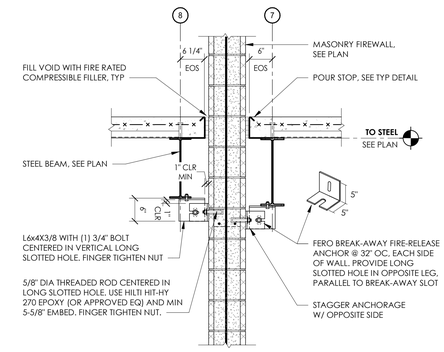
2 FRAMING SECTION

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"

NOTES:
1. SEE ALTERNATE DETAIL IF PREFERRED FOR CONSTRUCTION SEQUENCING.
2. IF ADJACENT BEAM IS NOT PRESENT, PROVIDE LEFT SIDE CONTINUOUS PLATE ASSEMBLY ON BOTH SIDES OF WALL

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"

NOTES:
1. SEE ALTERNATE DETAIL IF PREFERRED FOR CONSTRUCTION SEQUENCING.

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"

13 FRAMING SECTION

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

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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

#	DATE	DESCRIPTION

Drawn By:	JRV
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2302
Issued for Bid:	4/15/2024

Sheet Title
FRAMING SECTIONS AND DETAILS

Sheet No.
CTE S302

CONSTRUCTION DOCUMENTS

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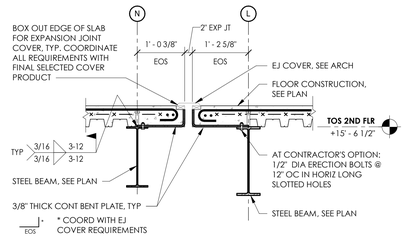
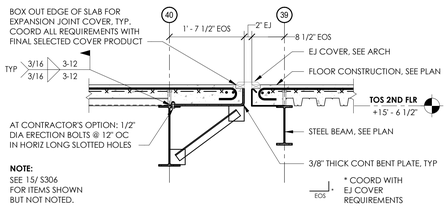


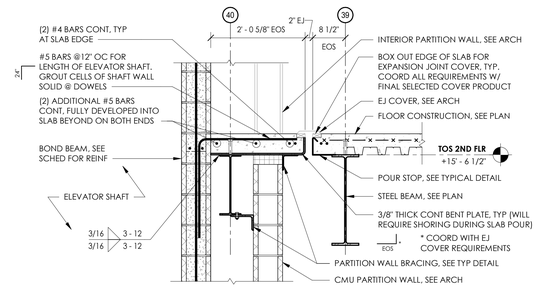
1 FRAMING SECTION

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



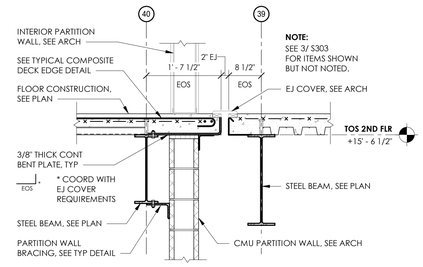
2 FRAMING SECTION

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



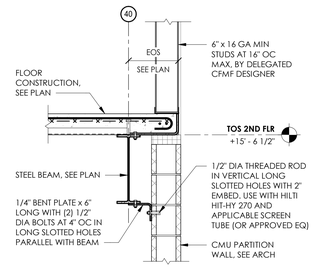
3 FRAMING SECTION

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"

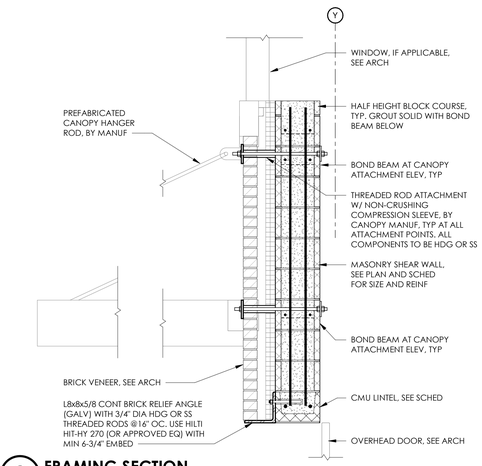
NOTES:
1. *DIMENSIONS WITH * ARE TO BE COORDINATED WITH ELEVATOR MANUFACTURER*
2. *ELEVATOR SYSTEM MAY NOT REQUIRE A SILL PLATE OR ANGLE. DETAIL IS TO BE COORDINATED WITH FINAL SELECTED ELEVATOR MANUFACTURER*

7 FRAMING SECTION

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

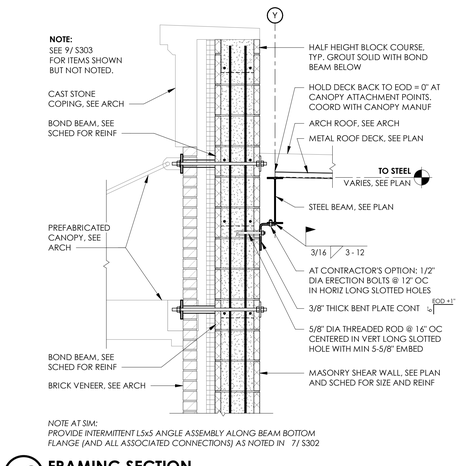
8 FRAMING SECTION

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



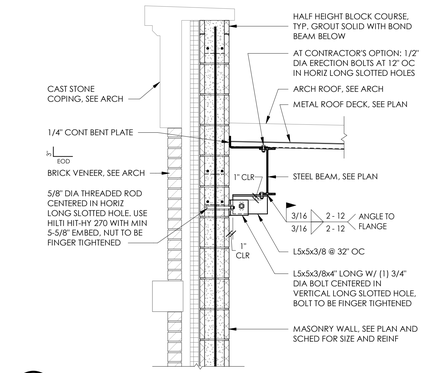
9 FRAMING SECTION

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



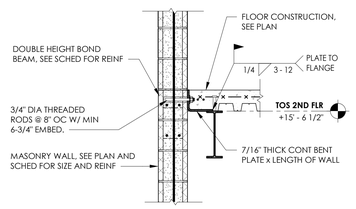
10 FRAMING SECTION

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



11 FRAMING SECTION

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



12 FRAMING SECTION

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

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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

STATE OF NEW YORK · PATRICK JAMES WILLIAMS · 100936 · LICENSED PROFESSIONAL ENGINEER

NO	DATE	DESCRIPTION

Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
FRAMING SECTIONS AND DETAILS

Sheet No.
CTE S303

CONSTRUCTION DOCUMENTS

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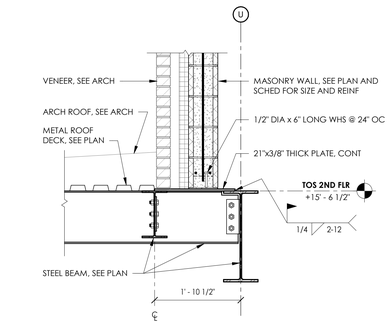
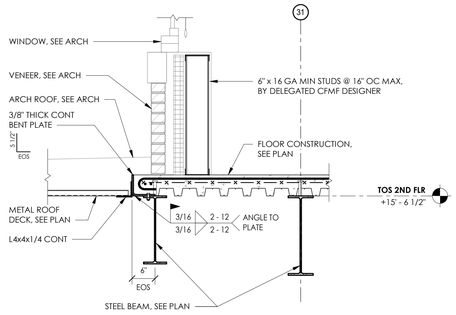


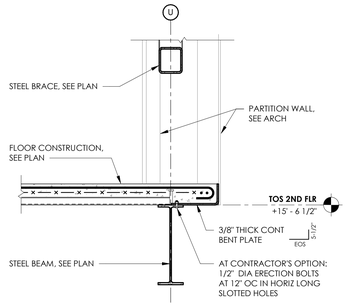
1 FRAMING SECTION

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



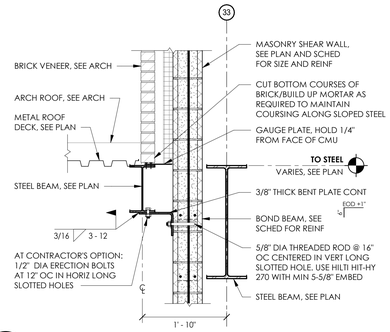
2 FRAMING SECTION

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



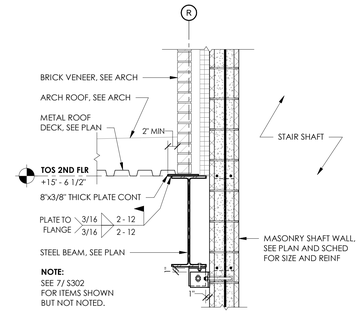
3 FRAMING SECTION

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"

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"

13 FRAMING SECTION

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

14 FRAMING SECTION

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

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NEW CTE BUILDING

Project Title

STATE OF NEW YORK · PATRICK JAMES WILLIAMS · 100935 · LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	JRC
Checked By:	CA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2320
Issued for Bid:	4/15/2024

Sheet Title

FRAMING SECTIONS AND DETAILS

Sheet No.

CTE S304

CONSTRUCTION DOCUMENTS

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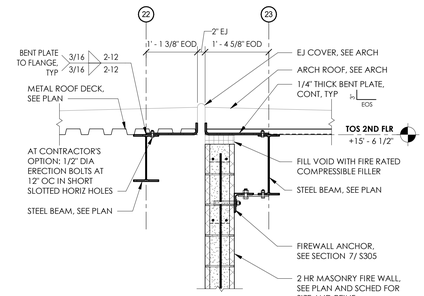
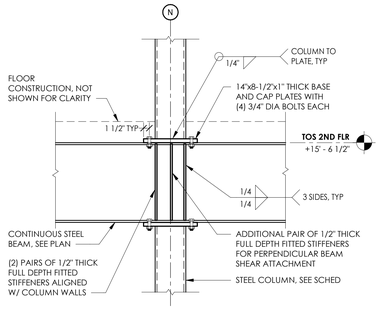


1 FRAMING SECTION

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



2 FRAMING SECTION

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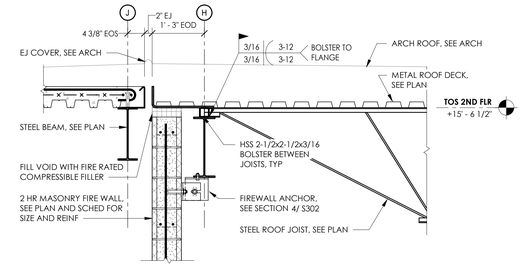
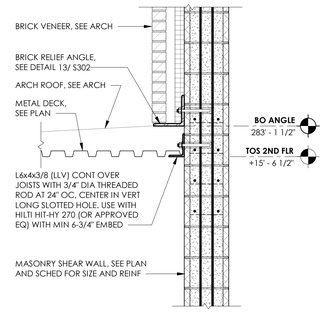
3/4" = 1'-0"



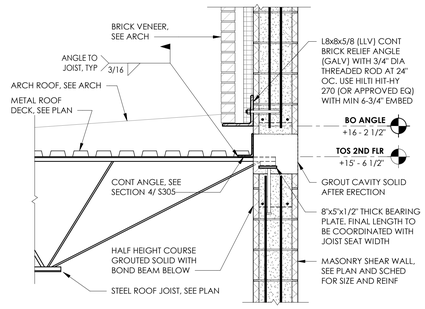
3 FRAMING SECTION

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



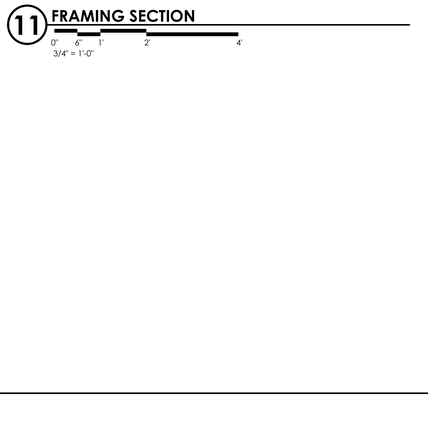
4 FRAMING SECTION

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



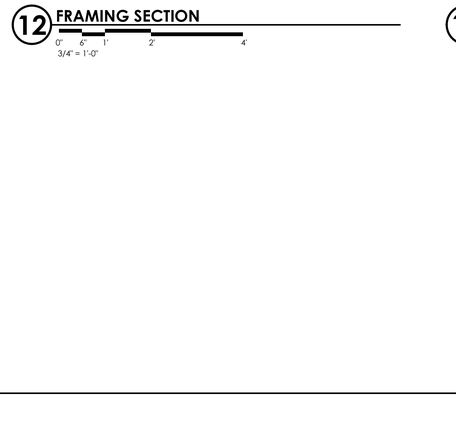
5 FRAMING SECTION

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



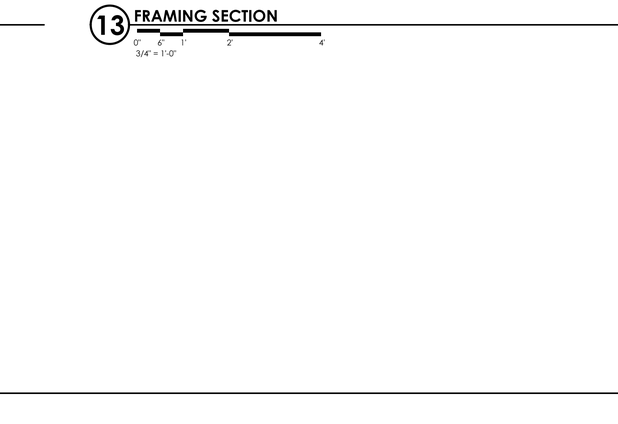
6 FRAMING SECTION

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



7 FRAMING SECTION

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



8 FRAMING SECTION

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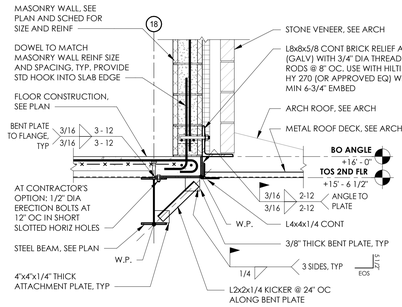
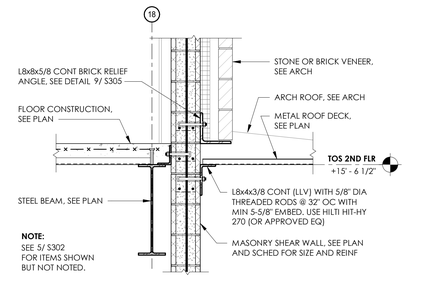
3/4" = 1'-0"



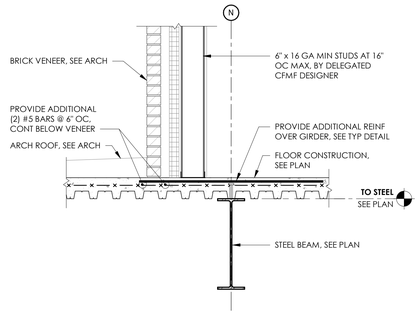
9 FRAMING SECTION

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



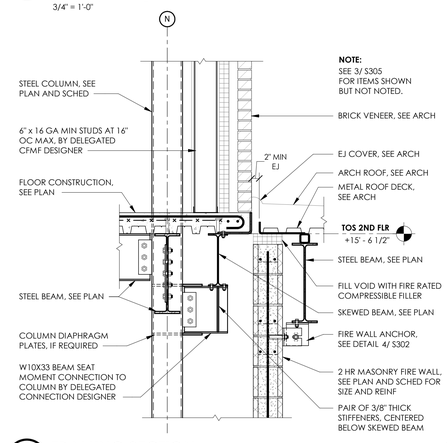
10 FRAMING SECTION

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



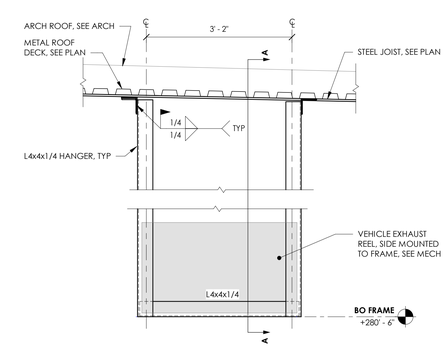
11 FRAMING SECTION

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



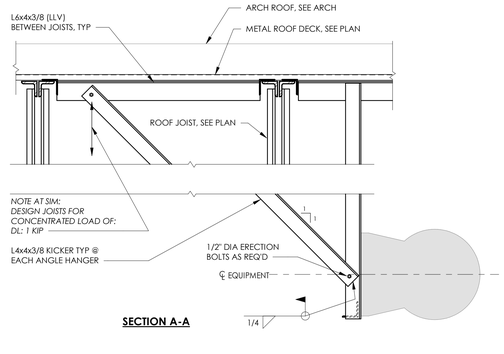
12 FRAMING SECTION

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



13 FRAMING SECTION

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



13 FRAMING SECTION

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

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NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

Project Title

STATE OF NEW YORK · PATRICK JAMES WILLIAMS · 100936 · LICENSED PROFESSIONAL ENGINEER

	DATE	DESCRIPTION

Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2302
Issued for Bid:	4/15/2024

Sheet Title
FRAMING SECTIONS AND DETAILS

Sheet No.
CTE S305

CONSTRUCTION DOCUMENTS

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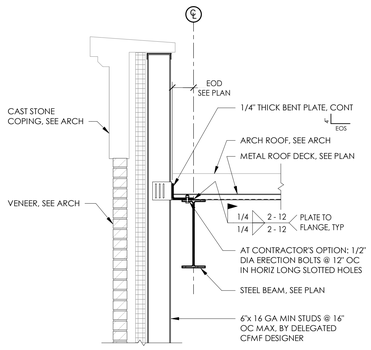
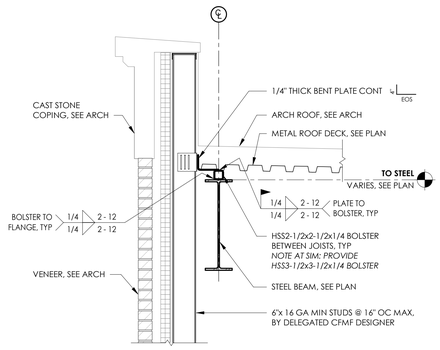


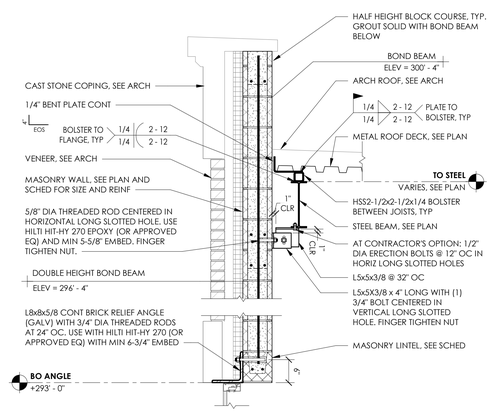
1 FRAMING SECTION

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



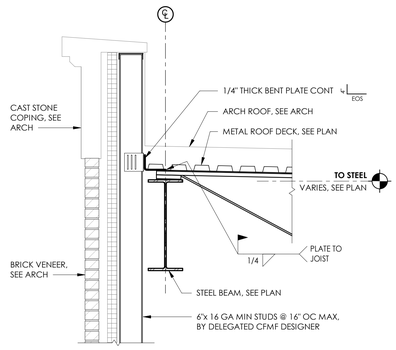
2 FRAMING SECTION

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



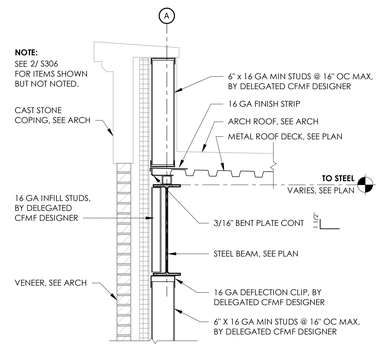
3 FRAMING SECTION

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



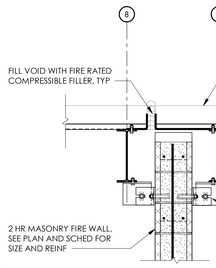
4 FRAMING SECTION

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



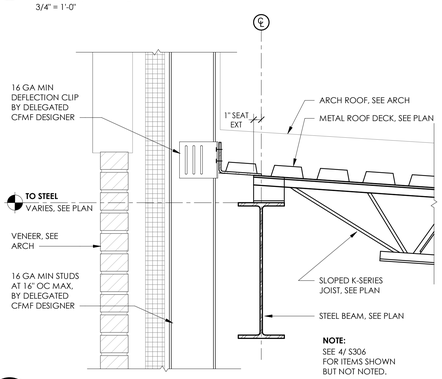
5 FRAMING SECTION

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



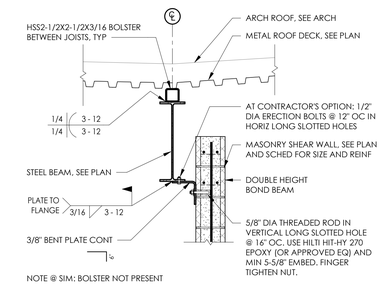
6 FRAMING SECTION

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



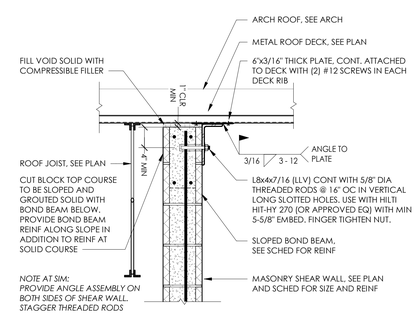
7 FRAMING SECTION

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



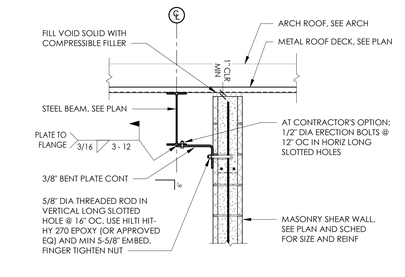
8 FRAMING SECTION

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



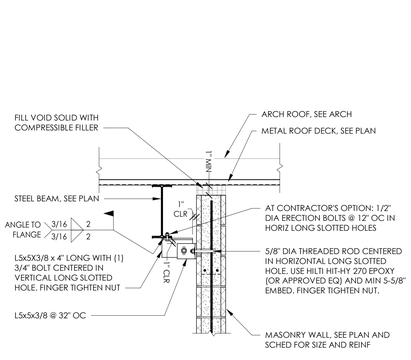
9 FRAMING SECTION

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



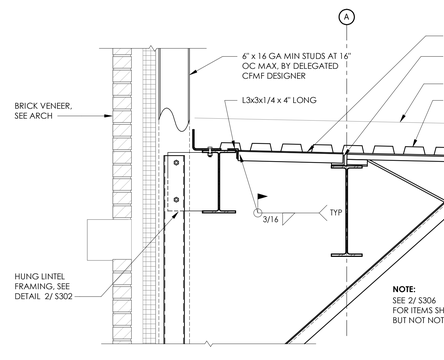
10 FRAMING SECTION

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



11 FRAMING SECTION

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



12 FRAMING SECTION

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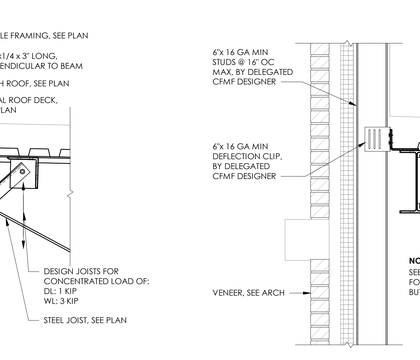
1" = 1'-0"



13 FRAMING SECTION

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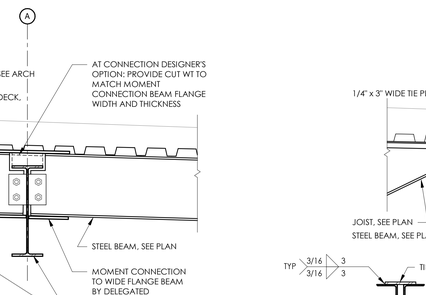
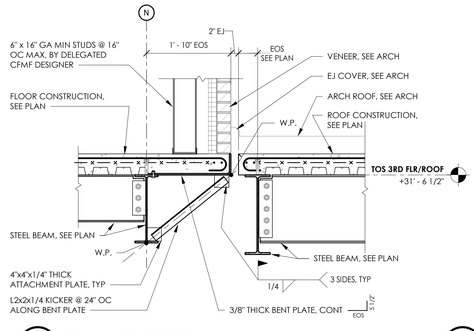
1" = 1'-0"



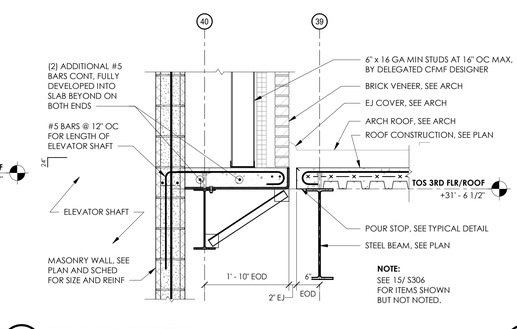
14 FRAMING SECTION

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



15 FRAMING SECTION

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



16 FRAMING SECTION

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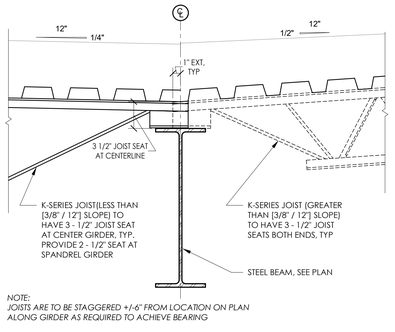
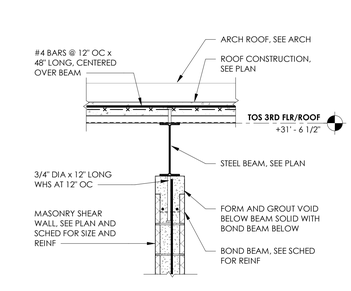
3/4" = 1'-0"



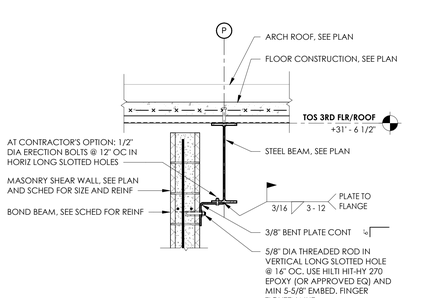
17 FRAMING SECTION

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



18 FRAMING SECTION

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



19 FRAMING SECTION

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

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NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

Project Title

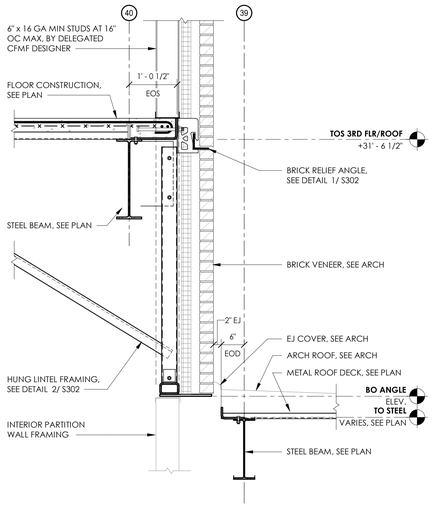
#	DATE	DESCRIPTION

Drawn By:	JRG
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
FRAMING SECTIONS AND DETAILS

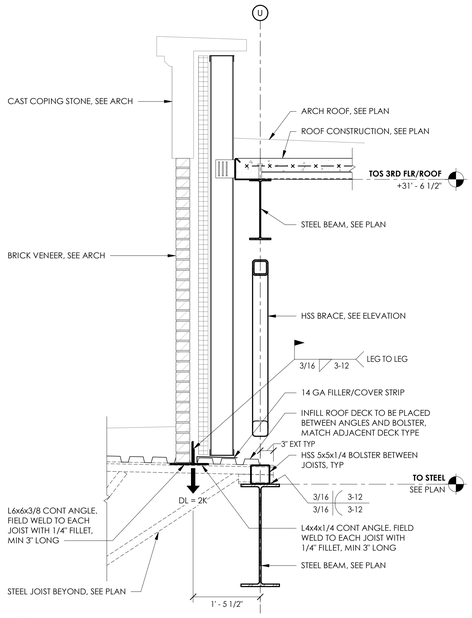
Sheet No.
CTE S306

CONSTRUCTION DOCUMENTS



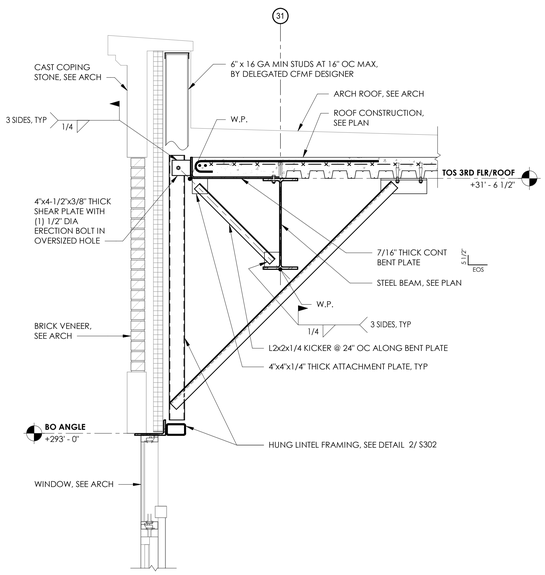
1 FRAMING SECTION

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



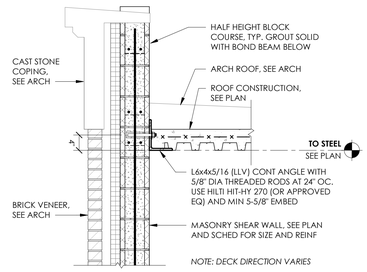
2 FRAMING SECTION

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



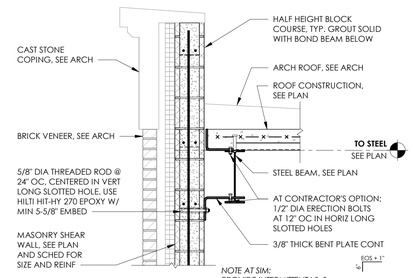
3 FRAMING SECTION

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



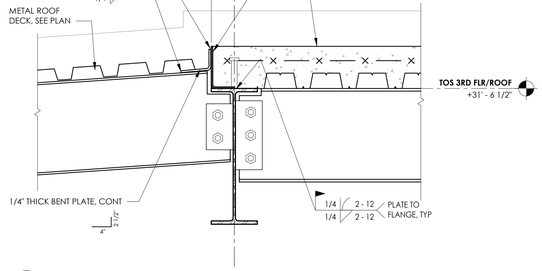
4 FRAMING SECTION

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



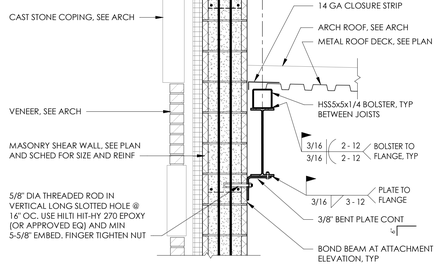
5 FRAMING SECTION

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



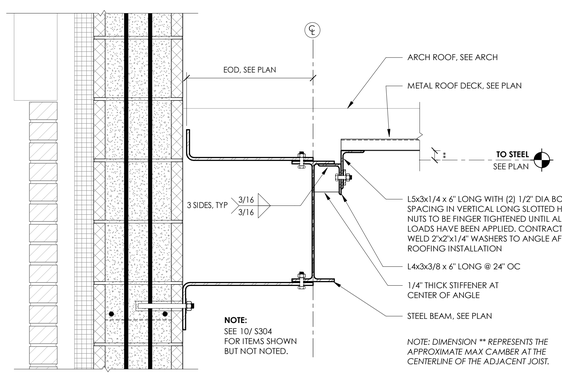
6 FRAMING SECTION

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



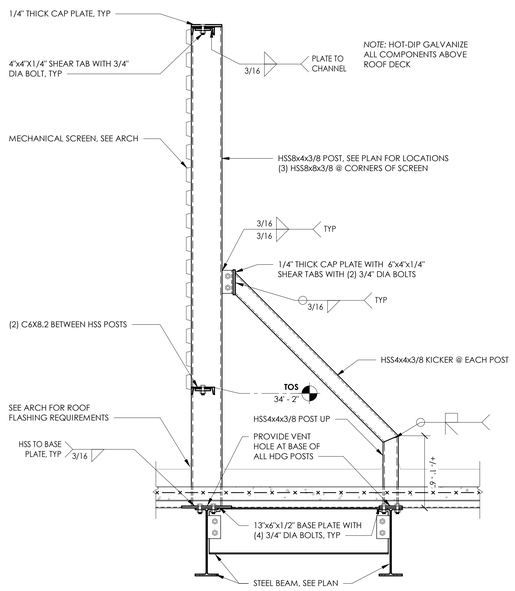
7 FRAMING SECTION

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



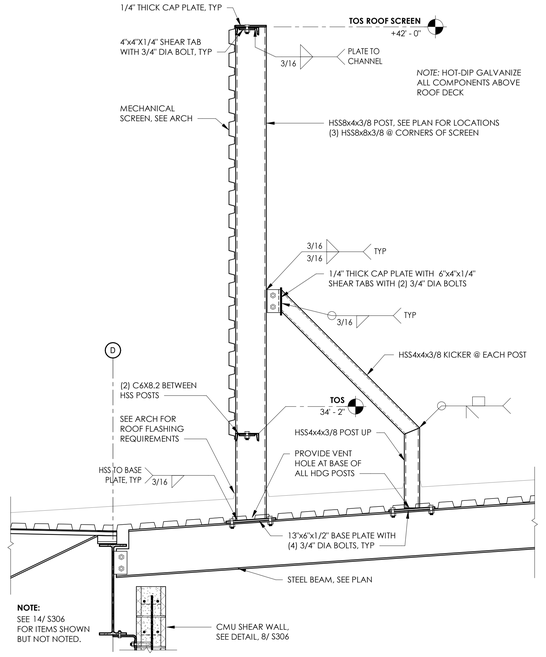
8 FRAMING SECTION

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

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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

STATE OF NEW YORK · PATRICK JAMES WILLIAMS · 100935 · LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	JRC
Checked By:	CA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2320
Issued for Bid:	4/15/2024

Sheet Title
FRAMING SECTIONS AND DETAILS

Sheet No.
CTE S307

CONSTRUCTION DOCUMENTS

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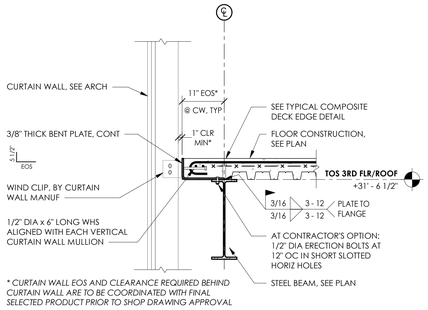
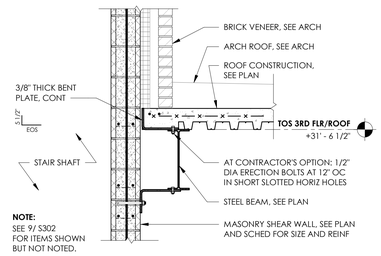


** CURTAIN WALL EOS AND CLEARANCE REQUIRED BEHIND CURTAIN WALL ARE TO BE COORDINATED WITH FINAL SELECTED PRODUCT PRIOR TO SHOP DRAWING APPROVAL*

1 FRAMING SECTION

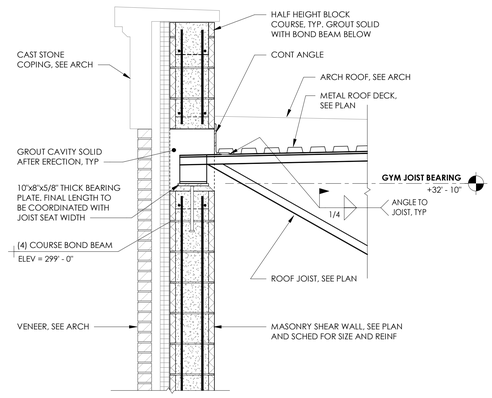
0" 6" 1' 2' 4'
3/4" = 1'-0"



NOTE:
SEE 9/ S302
FOR ITEMS SHOWN
BUT NOT NOTED.

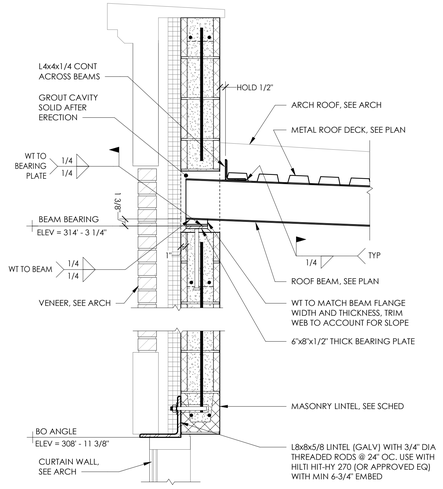
2 FRAMING SECTION

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



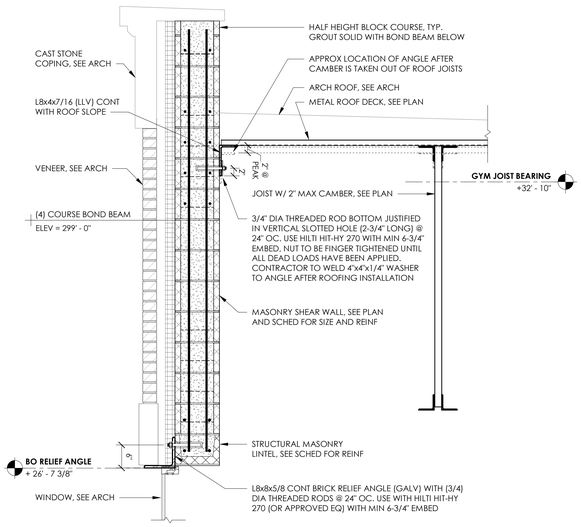
3 FRAMING SECTION

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



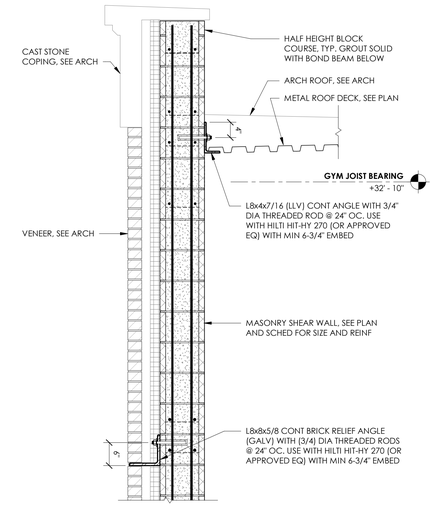
4 FRAMING SECTION

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



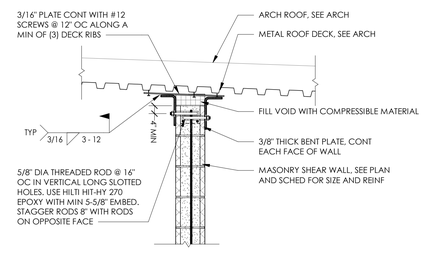
5 FRAMING SECTION

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



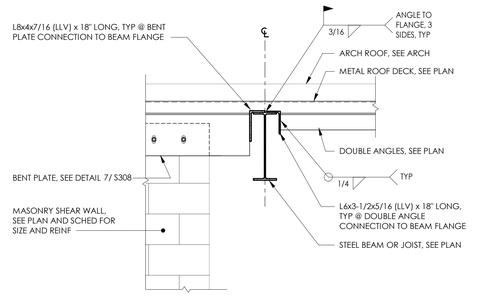
6 FRAMING SECTION

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



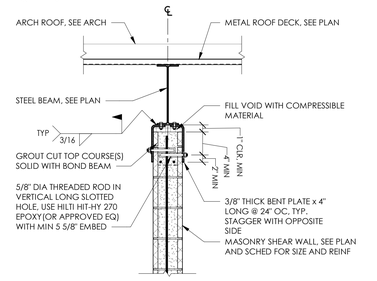
7 FRAMING SECTION

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



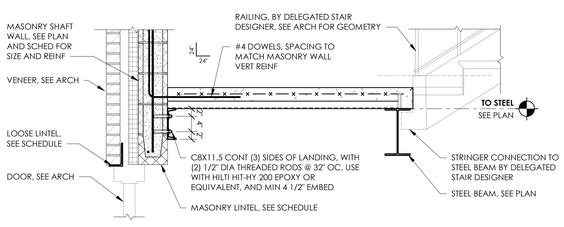
8 FRAMING SECTION

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



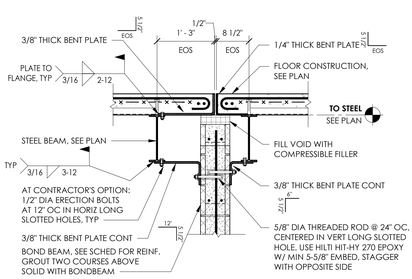
9 FRAMING SECTION

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



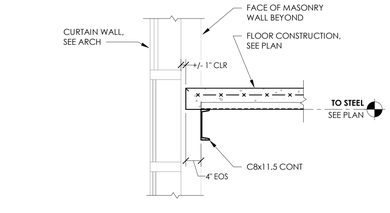
10 FRAMING SECTION

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



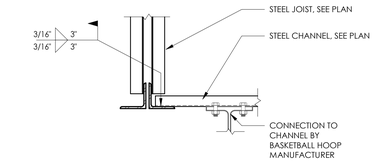
11 FRAMING SECTION

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



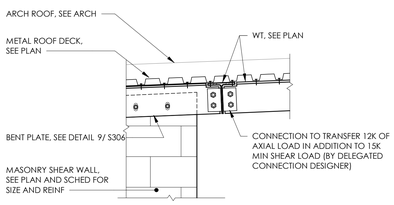
12 FRAMING SECTION

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



13 FRAMING SECTION

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



14 FRAMING SECTION

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

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Sheet Title
FRAMING SECTIONS AND DETAILS

Sheet No.
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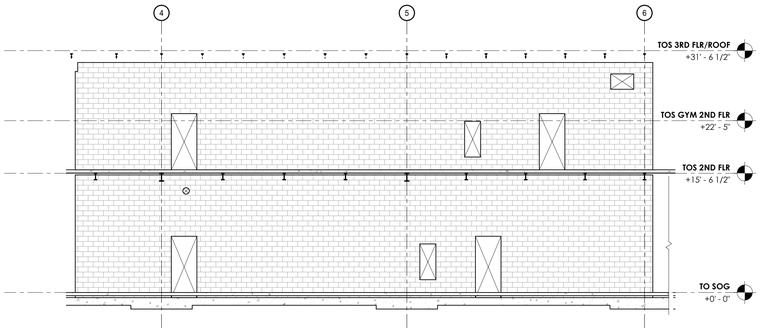
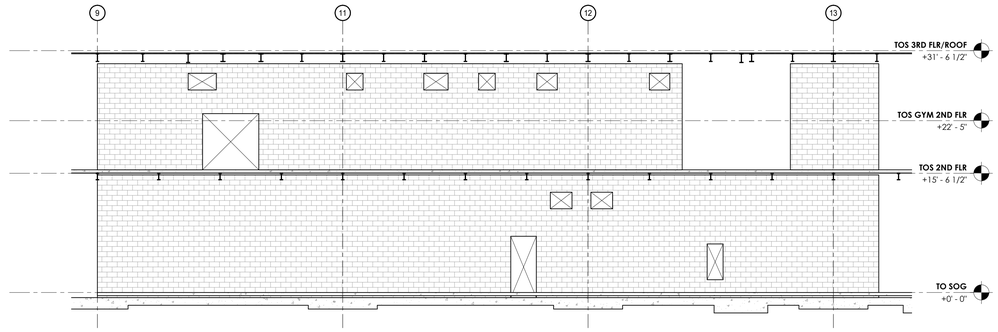


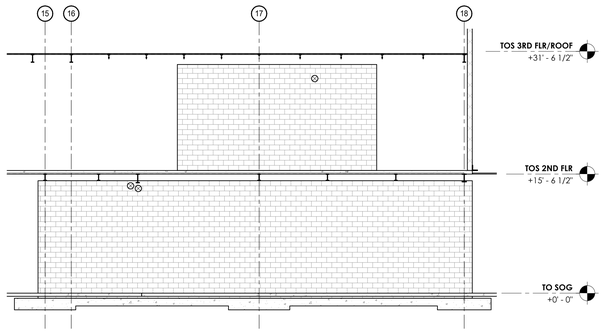
1 GRID D SHEARWALL - PART 1

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



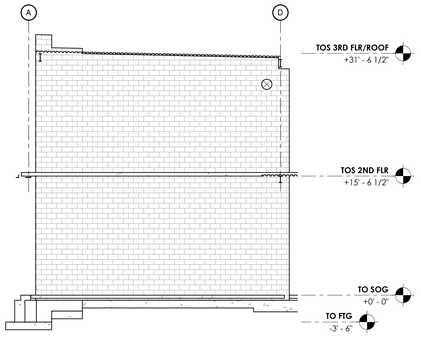
2 GRID D SHEARWALL - PART 2

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



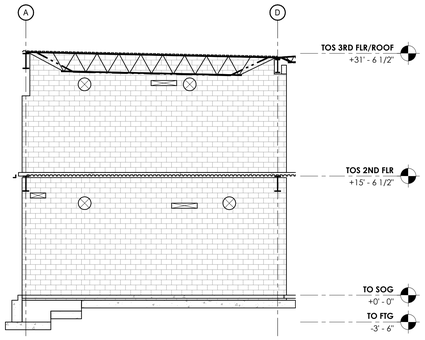
3 GRID D SHEARWALL - PART 3

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



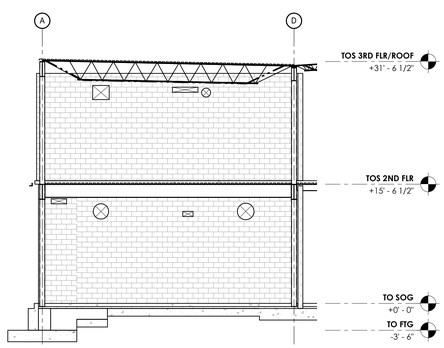
4 GRID 2 SHEAR WALL

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



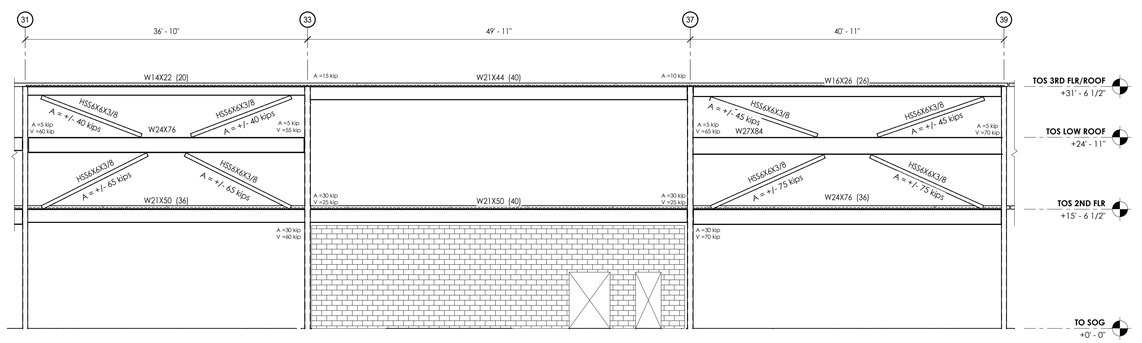
5 GRID 3.5 SHEAR WALL

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



6 GRID 6 SHEAR WALL

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



7 BRACING ELEVATION ALONG GRID LINE U

1/8" = 1'-0"

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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

PATRICK JAMES WILLIAMS
STATE OF NEW YORK
100936
LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
ELEVATIONS

Sheet No.
CTE
S401

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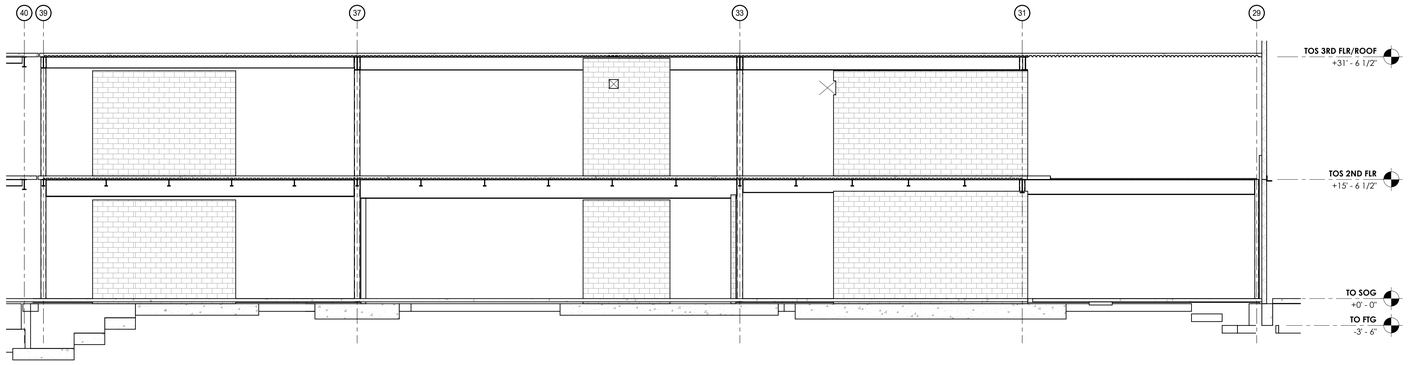
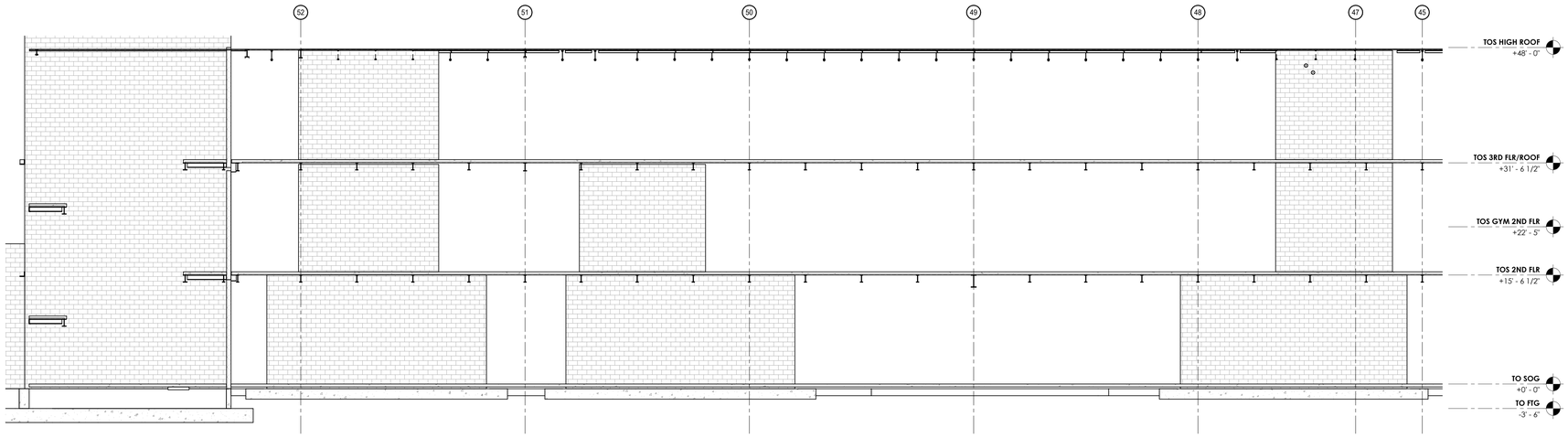


1 GRID P SHEAR WALL - PART 2

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



2 GRID P SHEAR WALL - PART 3

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

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Sheet Title
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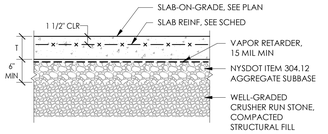
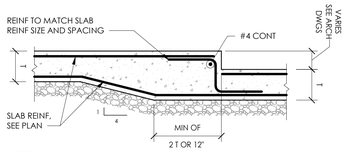


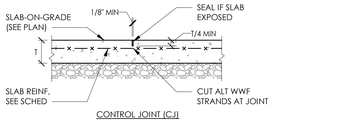
NOTES:
1. SEE SLAB-ON-GRADE SCHEDULE FOR SLAB THICKNESS, T.
2. PROVIDE CHAIRS TO SUPPORT SLAB REINFORCING AT SPECIFIED ELEVATION.
3. (E) FILL TYPE MATERIALS TO BE REMOVED WITHIN THE PROPOSED BUILDING FOOTPRINT AND AN ADDITIONAL HORIZONTAL DISTANCE OF 5'-0" BEYOND THE BUILDING FOOTPRINT. EXCAVATION TO BE BACKFILLED WITH COMPACTED STRUCTURAL FILL, AS SHOWN ABOVE.

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

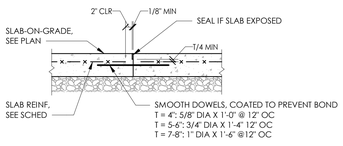


NOTES:
1. SEE ARCH DRAWINGS FOR LOCATION AND DEPTH OF SLAB DEPRESSION.
2. SEE TYPICAL STRUCTURAL SLAB DETAIL THIS SHEET, FOR SLAB DETAILS NOT SHOWN.
3. SEE STRUCTURAL SLAB SCHEDULE FOR SLAB THICKNESS.

2 SLAB ON GROUND DEPRESSION DETAIL
N.T.S.



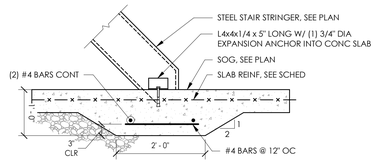
CONTROL JOINT (CJ)



CONSTRUCTION JOINT (CNJ)

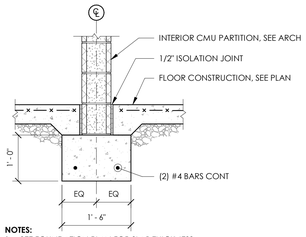
NOTES:
1. SEE TYPICAL SLAB-ONGRADE DETAIL FOR INFORMATIO NOT SHOWN.
2. IF FORMED JOINT IS USED, INSERT 1/8" PREMOLDED OR METAL STRIPS WHEN CONCRETE IS PLACED.
3. IF SAWED JOINT USE, SEAL IF SLAB IS EXPOSED.
4. SPACE CONTROL JOINTS AS FOLLOWS:
   A. T = 4": 10'-0" OC
   B. T = 5": 12'-0" OC
   C. T = 8": 16'-0" OC

3 SOG CONTROL/CONSTRUCTION JOINT
N.T.S.



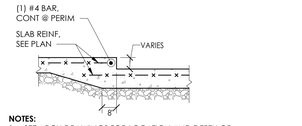
NOTE:
SEE TYPICAL SLAB-ON-GRADE DETAIL FOR INFORMATION NOT SHOWN.

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



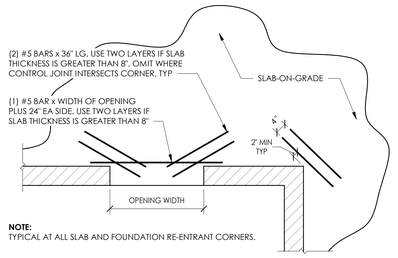
NOTES:
1. SEE FOUNDATION PLAN FOR SLAB THICKNESS.
2. PROVIDE CONTINUOUS FOOTING UNDER ALL INTERIOR CMU PARTITIONS EXCEEDING 8'-0" IN LENGTH.
3. SEE TYPICAL SLAB-ON-GRADE DETAIL, ON THIS SHEET, FOR SLAB DETAILS NOT SHOWN.

5 FOOTING DETAIL AT CMU PARTITION WALL
3/4" = 1'-0"



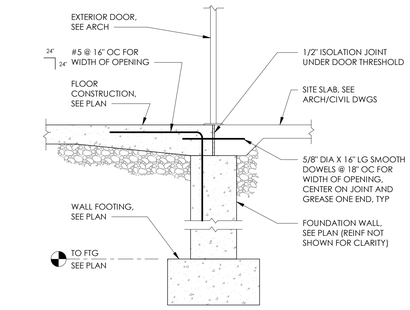
NOTES:
1. SEE ARCH DRAWINGS FOR LOCATION AND DEPTH OF SLAB DEPRESSION.
2. SEE TYPICAL SLAB-ON-GRADE DETAIL, ON THIS SHEET, FOR SLAB DETAILS NOT SHOWN.
3. SEE SLAB-ON-GRADE SCHEDULE FOR SLAB THICKNESS.

6 SLAB-ON-GRADE DEPRESSION
N.T.S.

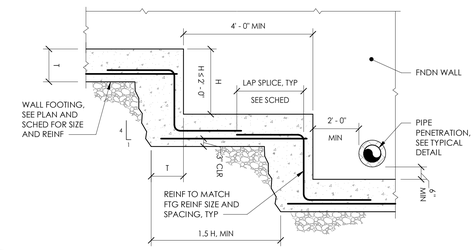


NOTE:
TYPICAL AT ALL SLAB AND FOUNDATION RE-ENTRANT CORNERS.

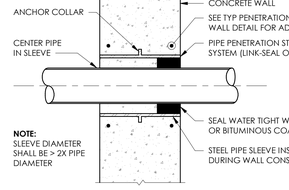
7 REENTRANT CORNER REINFORCEMENT
N.T.S.



8 TYPICAL SLAB AT EXTERIOR DOOR
N.T.S.



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

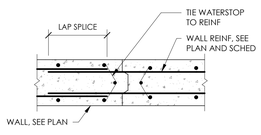


DOUBLE MAT REINFORCING

SINGLE MAT REINFORCING

10 TYPICAL CONCRETE WALL REINFORCING
N.T.S.

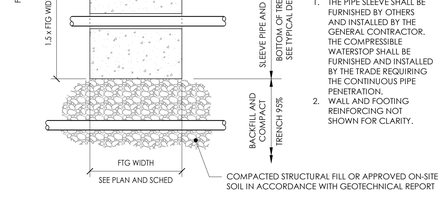
CONTROL JOINT



NOTE:
WALLS 10" AND OVER IN THICKNESS TO HAVE KEY, 2 1/2" DEEP BY APPROX 1/3 WALL THICKNESS.

CONSTRUCTION JOINT

11 TYPICAL CONCRETE WALL JOINTS
N.T.S.



NOTES:
1. THE PIPE SLEEVE SHALL BE FURNISHED BY OTHERS AND INSTALLED BY THE GENERAL CONTRACTOR. THE COMPRESSIBLE WATERSTOP SHALL BE FURNISHED AND INSTALLED BY THE TRADE REQUIRING THE CONTINUOUS PIPE PENETRATION.
2. WALL AND FOOTING REINFORCING NOT SHOWN FOR CLARITY.

12 TYPICAL PIPES AT FOUNDATION
N.T.S.

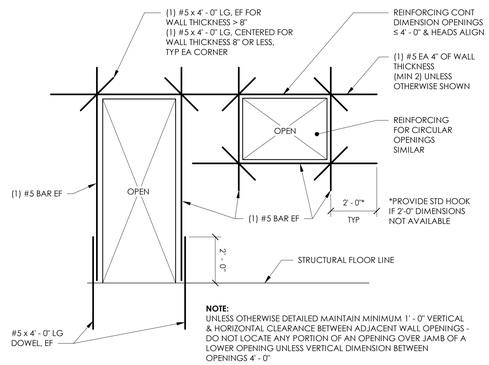
NOTE:
THE PIPE SLEEVE SHALL BE FURNISHED BY OTHERS AND INSTALLED BY GENERAL CONTRACTOR. THE COMPRESSIBLE WATERSTOP SHALL BE FURNISHED AND INSTALLED BY THE TRADE REQUIRING THE CONTINUOUS PIPE PENETRATION.

13 DEEPENED FOOTING AT PIPE
N.T.S.

NOTE:
*PROVIDE STD HOOK IF 2'-0" NOT AVAILABLE

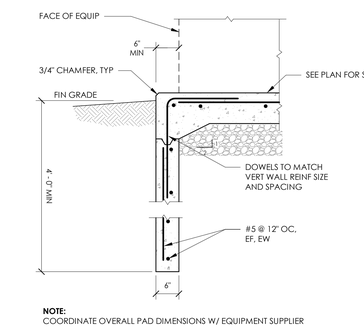
PIPES < 18" DIA **PIPES > 18" DIA**

14 PIPE OPENING IN CONCRETE WALL
N.T.S.



NOTE:
UNLESS OTHERWISE DETAILED MAINTAIN MINIMUM 1' - 0" VERTICAL & HORIZONTAL CLEARANCE BETWEEN ADJACENT WALL OPENINGS - DO NOT LOCATE ANY PORTION OF AN OPENING OVER JAMB OF A LOWER OPENING UNLESS VERTICAL DIMENSION BETWEEN OPENINGS 4' - 0"

16 REINF AT OPENING IN CONCRETE WALLS
3/4" = 1'-0"



NOTE:
COORDINATE OVERALL PAD DIMENSIONS W/ EQUIPMENT SUPPLIER

17 EXTERIOR EQUIPMENT PAD
N.T.S.

NOTE:
SLEEVE DIAMETER SHALL BE > 2X PIPE DIAMETER

15 PIPE SLEEVE BELOW GRADE
N.T.S.

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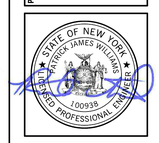
Project Title



#	DATE	DESCRIPTION

Drawn By:	JRC
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

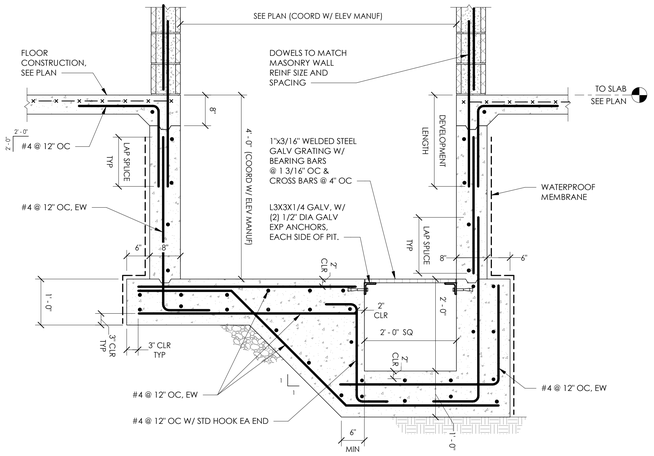
Sheet Title

TYPICAL CONCRETE DETAILS

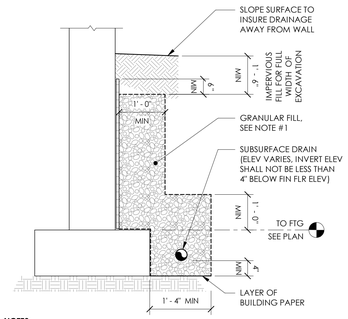
Sheet No.

CTE S501

CONSTRUCTION DOCUMENTS

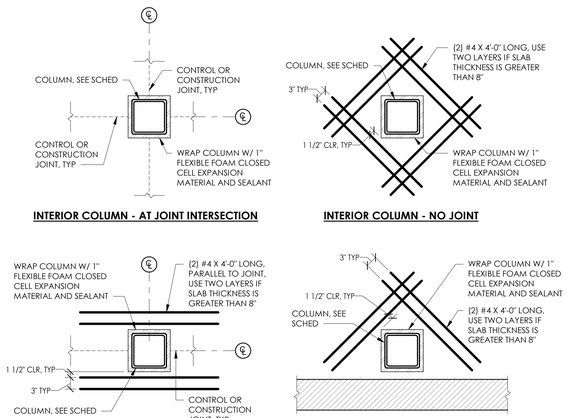


1 TYPICAL ELEVATOR PIT DETAIL
N.T.S.

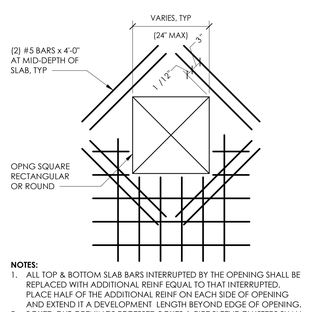


NOTES:
1. CONTRACTOR MAY SUBSTITUTE A PREFABRICATED DRAINAGE STRUCTURE FOR GRANULAR FILL & FILTER CLOTH. PREFABRICATED DRAINAGE STRUCTURE SHALL BE PLACED AGAINST THE WALL AND AROUND SUBSURFACE DRAIN IN ACCORDANCE WITH THE MANUF RECOMMENDED. THE FOLLOWING PREFABRICATED DRAINAGE STRUCTURES ARE ACCEPTABLE:
   A. MIRADRAIN 6200
   B. AMER DRAIN 500
   C. HYDRODUCT 200
2. SEE TYPICAL SLAB-ON-GRADE DETAIL THIS SHEET FOR SLAB DETAILS NOT SHOWN.

2 FOUNDATION DRAIN
N.T.S.



3 COLUMN ISOLATION WRAP
N.T.S.



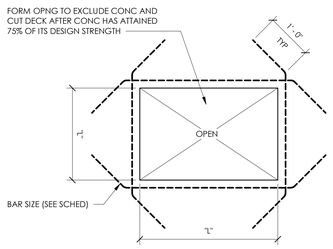
NOTES:
1. ALL TOP & BOTTOM SLAB BARS INTERRUPTED BY THE OPENING SHALL BE REPLACED WITH ADDITIONAL REINF EQUAL TO THAT INTERRUPTED. PLACE HALF OF THE ADDITIONAL REINF ON EACH SIDE OF OPENING AND EXTEND IT A DEVELOPMENT LENGTH BEYOND EDGE OF OPENING.
2. BOXED OUT OPENINGS RECESSED BOXES & PIPE SLEEVE CLUSTERS SHALL BE TREATED AS FOR SLAB OPENINGS.

4 REINFORCEMENT AT OPENING IN SLAB
N.T.S.

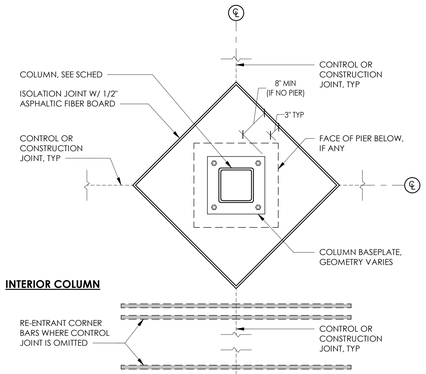
SUPPLEMENTAL REINFORCING SCHEDULE

"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.

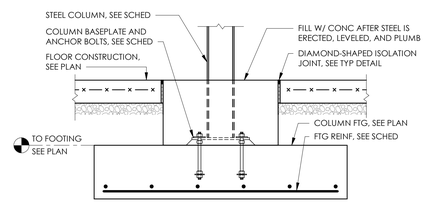


5 FLOOR OPENING AND SCHEDULE
N.T.S.

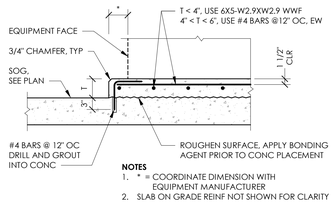


NOTE:
COORDINATE FOUNDATION WALL BOX OUT WITH BASEPLATE SCHEDULE AND STEEL FABRICATOR.

6 COLUMN ISOLATION JOINT
N.T.S.

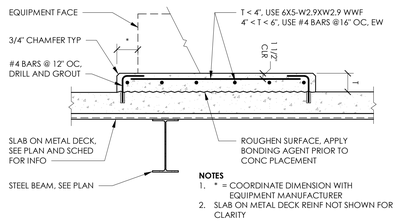


7 INTERIOR COLUMN FOOTING
N.T.S.



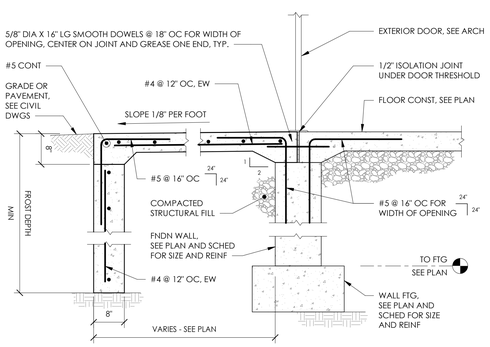
NOTES
1. * = COORDINATE DIMENSION WITH EQUIPMENT MANUFACTURER
2. SLAB ON GRADE REINF NOT SHOWN FOR CLARITY

8 EQUIPMENT PAD AT SLAB ON GRADE
3/4" = 1'-0"



NOTES
1. * = COORDINATE DIMENSION WITH EQUIPMENT MANUFACTURER
2. SLAB ON METAL DECK REINF NOT SHOWN FOR CLARITY

9 EQUIPMENT PAD ON ELEVATED FLOOR
3/4" = 1'-0"



10 FROST PROTECT SLABS AT EXTERIOR DOORWAYS
3/4" = 1'-0"

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NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

Project Title

STATE OF NEW YORK · PATRICK JAMES WILLIAMS · 100935 · LICENSED PROFESSIONAL ENGINEER

No.	DATE	DESCRIPTION

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Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title

TYPICAL CONCRETE DETAILS

Sheet No.

CTE S502

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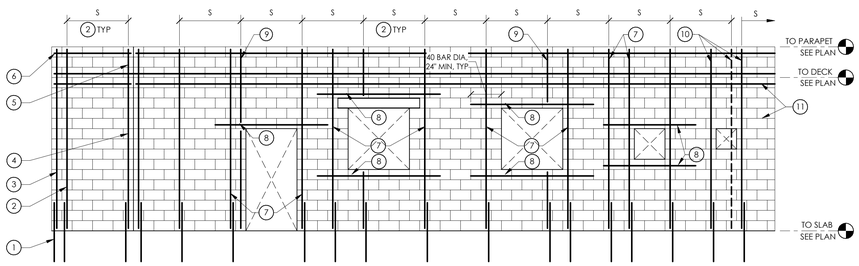
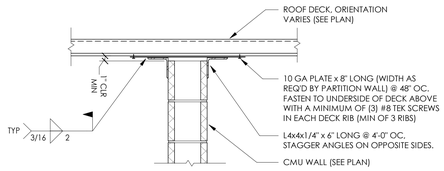
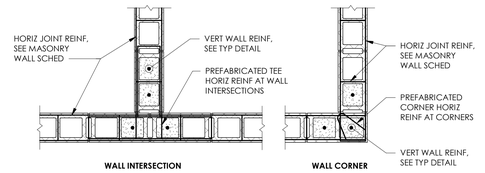


NOTES	
MARK	DESCRIPTION
1	DOWELS TO MATCH SIZE AND SPACING OF WALL REINFORCEMENT.
2	TYPICAL REINFORCEMENT, SEE SECTIONS FOR SIZE AND SPACING, S.
3	PROVIDE REINFORCEMENT AT WALL CORNER AND WITHIN 8' OF END OF WALL.
4	PROVIDE REINFORCEMENT WITHIN 8' OF EACH SIDE OF CONTROL/MOVEMENT JOINT.
5	PROVIDE CONTINUOUS 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.

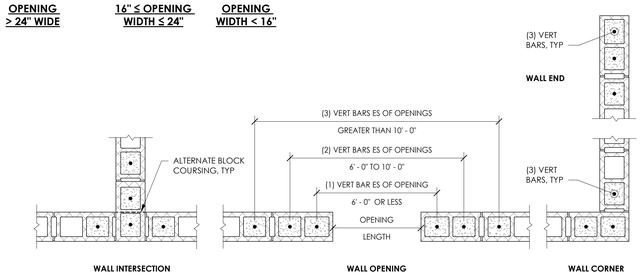


NOTES:
1. THIS DETAIL IS TO BE USED WHERE THERE IS NO BEAM OR JOIST WITHIN 6" OF THE FACE OF THE WALL. SEE TYPICAL PARTITION WALL BRACING DETAIL FOR OTHER CONDITIONS.
2. PROVIDE COMPRESSIBLE FILLER BETWEEN TOP OF WALL AND UNDERSIDE OF DECK (IN 1" VOID SPACE)



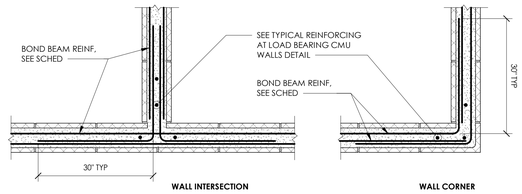
NOTE: PROVIDE 6" MIN OVERLAP BETWEEN SHEETS OF HORIZ JOINT REINF, TYP

2 CMU HORIZONTAL REINFORCING DETAIL
N.T.S.

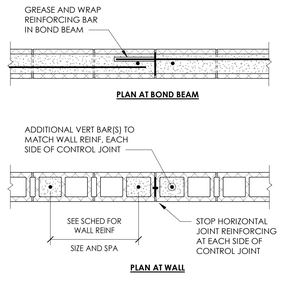


NOTES:
1. BALANCE OF VERTICAL REINFORCING NOT SHOWN FOR CLARITY.
2. ADDITIONAL VERTICAL BARS TO MATCH WALL REINFORCEMENT, SEE SCHEDULE. RUN REINFORCING FULL HEIGHT OF WALL AND DOWEL INTO FOUNDATION. ADDITIONAL BARS SHALL BE LOCATED WITHIN 8" OF CORNER OR WALL END.

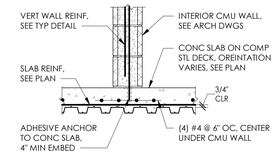
4 REINFORCING AT STRUCTURAL CMU WALLS
N.T.S.

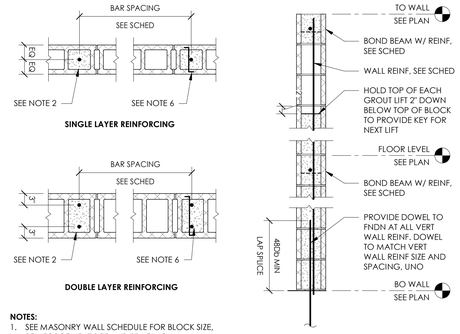


NOTES:
1. BALANCE OF VERTICAL WALL REINFORCING NOT SHOWN FOR CLARITY. SEE MASONRY WALL SCHEDULE FOR SIZE AND SPACING.
2. USE PREFABRICATED CORNER AND INTERSECTION BOND BEAM UNITS OR REMOVE FACESHELL TO ACCOMMODATE REINFORCEMENT BARS AND GROUT.
3. WALL INTERSECTION DETAIL IS SIM FOR INTERSECTION WITH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



5 REINFORCING AT CONTROL JOINT
N.T.S.





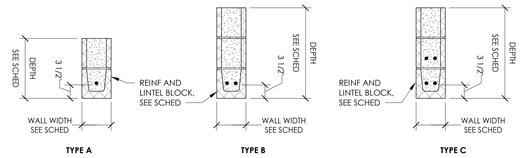
NOTES:
1. SEE MASONRY WALL SCHEDULE FOR BLOCK SIZE, REINFORCEMENT SIZE AND SPACING.
2. GROUT REINFORCING SOLID IN BLOCK CORES.
3. PROVIDE ADDITIONAL HORIZONTAL JOINT REINFORCEMENT ON E COURSE ABOVE AND BELOW OPENINGS EXTENDING A MINIMUM OF 2' - 0" BEYOND FACE OF OPENING ON EACH SIDE.
4. PROVIDE BOND 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.

3 CMU VERTICAL REINFORCING
N.T.S.

STRUCTURAL MASONRY LINTEL SCHEDULE

MARK	MASONRY DIMENSIONS		REINFORCEMENT	LAYOUT TYPE	COMMENTS
	WALL WIDTH	DEPTH			
L1.0	8"	16"	(1) #5	TYPE A	
L1.1	10"	16"	(1) #5	TYPE A	
L1.2	1' - 0"	16"	(1) #5	TYPE A	
L2.0	8"	24"	(2) #5	TYPE B	
L2.2	1' - 0"	24"	(2) #5	TYPE B	
L3.0	8"	24"	(4) #5	TYPE C	
L3.2	1' - 0"	24"	(4) #5	TYPE C	
L4.0	8"	32"	(1) #5	TYPE A	
L4.1	8"	32"	(4) #5	TYPE C	
L5.0	1' - 0"	32"	(4) #6	TYPE C	

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.



6 TYPICAL CMU PARTITION BRACING AT UNTOPPED DECK
N.T.S.

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

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

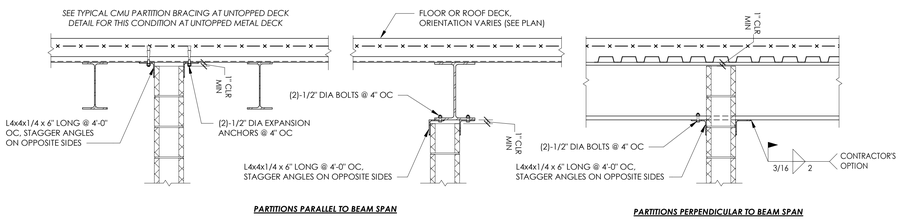
9 CMU LINTEL SCHEDULE AND DETAIL
N.T.S.

LOOSE LINTEL SCHEDULE

(NON-LOADBEARING MASONRY PARTITIONS OR BRICK VENEER 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 4 x 1/4	(2) L3 x 2-1/2 x 1/4	(2) L4 x 3-1/2 x 1/4	L5x5x5/16 + L4x3-1/2x1/4	(3) L4 x 3-1/2 x 1/4
6' - 0"	(1) L4 x 4 x 1/4	(2) L3-1/2 x 2-1/2 x 1/4	(2) L5 x 3-1/2 x 1/4	L5x5x5/16 + L5x3-1/2x1/4	(3) L4 x 3-1/2 x 1/4
8' - 0"	(1) L6 x 4 x 3/8	(2) L3-1/2 x 2-1/2 x 1/4	(2) L6 x 3-1/2 x 5/16	L5x5x5/16 + L5x3-1/2x5/16	(3) L4 x 3-1/2 x 1/4
10' - 0"	(1) L7 x 4 x 3/8	-	-	-	-

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

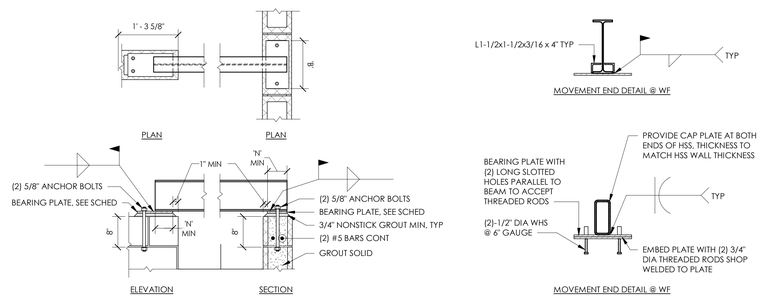
10 LOOSE LINTEL SCHEUDLE
N.T.S.



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.

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

BEARING PLATE SCHEDULE			
BEAM/JOIST CLASS	WIDTH 'B'	LENGTH 'N'	THICKNESS 'tp'
W8	10"	6"	1/2"
W12	10"	6"	1/2"
30K	12"	6"	5/8"
80DLH	14"	8"	1"



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.

12 TYPICAL BEARING PLATE DETAIL
N.T.S.

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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

STATE OF NEW YORK PATRICK JAMES WILLIAMS 100935 LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

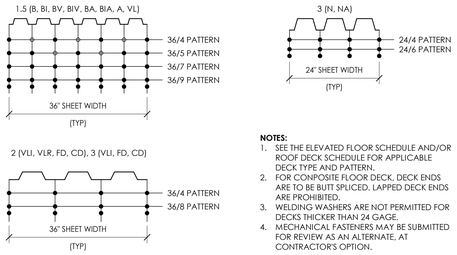
Drawn By:	JRS
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
TYPICAL MASONRY DETAILS

Sheet No.
CTE S503

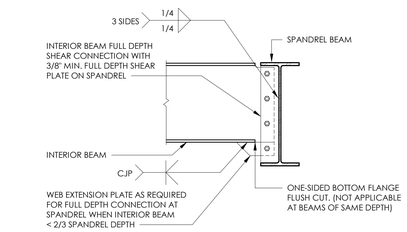
CONSTRUCTION DOCUMENTS

Autodesk Docs://NECSD - New CTE Bldg/NECSD CTE - Struct.rvt

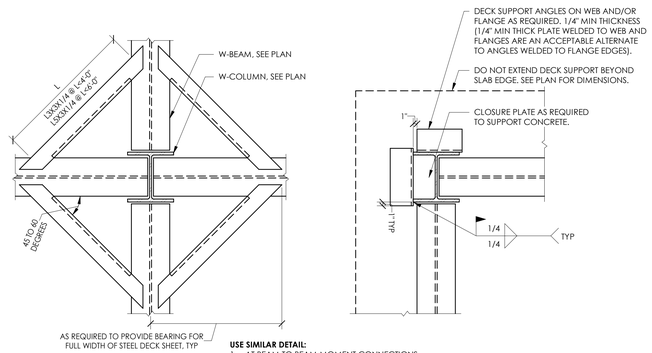


NOTES:
1. SEE THE ELEVATED FLOOR SCHEDULE AND/OR ROOF DECK SCHEDULE FOR APPLICABLE DECK TYPE AND PATTERN.
2. FOR CONPOSITE FLOOR DECK, DECK ENDS ARE TO BE BUTT SPLICED, LAPPED DECK ENDS ARE PROHIBITED.
3. WELDING WASHERS ARE NOT PERMITTED FOR DECKS THICKER THAN 24 GAGE.
4. MECHANICAL FASTENERS MAY BE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

1 METAL DECK FASTENING LAYOUT
N.T.S.

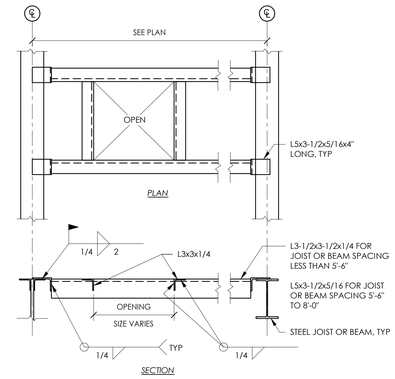


2 TYPICAL ROLL BEAM DETAIL
N.T.S.



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.

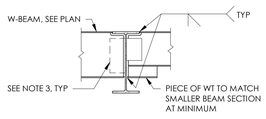
3 DECK SUPPORT AT W-COLUMNS
N.T.S.



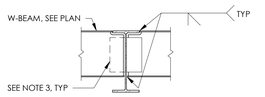
NOTE:
SEE ARCH ROOF PLANS AND MECH DWGS FOR SIZE AND LOCATION OF ROOF OPENINGS

4 FRAMING FOR ROOF OPENING
N.T.S.

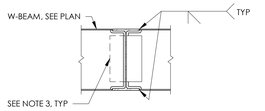
NON-DELEGATED MOMENT CONNECTIONS:
(IF NO MOMENT REACTION IS GIVEN ON PLAN)



TYPE III - BEAMS OF DIFFERENT DEPTHS

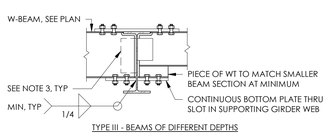


TYPE II - BEAMS OF SAME DEPTH, GIRDER DEPTH DIFFERENT

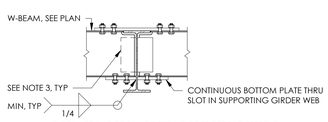


TYPE I - BEAMS AND GIRDER WITH SAME DEPTH

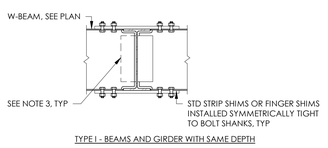
DELEGATED MOMENT CONNECTIONS:



TYPE III - BEAMS OF DIFFERENT DEPTHS



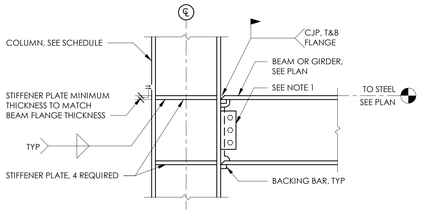
TYPE II - BEAMS OF SAME DEPTH, GIRDER DEPTH DIFFERENT



TYPE I - BEAMS AND GIRDER WITH SAME DEPTH

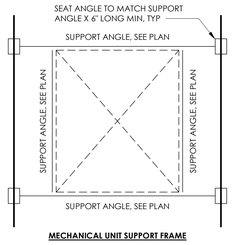
NOTES:
1. MOMENT CONNECTION TO DEVELOP MOMENT REACTION INDICATED ON PLAN. IN THE ABSENCE OF REACTION NOTED ON PLAN, PROVIDE FULL PENETRATION WELDED CONNECTIONS AT SHOWN.
2. ALL BOLTS ARE A325-N-SC (SLIP CRITICAL) WITH A MINIMUM OF (4) BOLTS AT EACH FLANGE. A490-N-SC BOLTS ARE PERMITTED.
3. DESIGN SHEAR 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.

5 BEAM MOMENT CONNECTION
N.T.S.

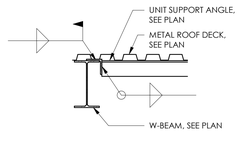


NOTES:
1. SHEAR CONNECTION AT BEAMS AND GIRDERS SHALL BE DESIGNED FOR REACTIONS AS SHOWN ON PLAN.
2. STIFFENER PLATES REQUIRED FOR WEAK-AXIS MOMENT CONNECTIONS, AND ACT AS EFFECTIVE STIFFENER PLATES FOR STRONG-AXIS MOMENT CONNECTIONS.
3. ONE-SIDED MOMENT CONNECTION SHOWN; MULTIPLE CONNECTIONS SHALL BE 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.

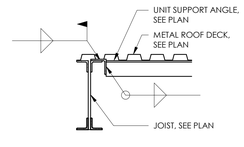
6 BEAM TO COLUMN MOMENT CONNECTION
N.T.S.



MECHANICAL UNIT SUPPORT FRAME



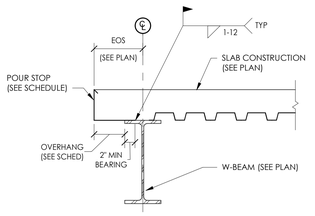
W-BEAM CONDITION



JOIST CONDITION

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

7 MECHANICAL UNIT SUPPORT
N.T.S.

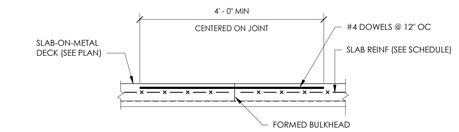


NOTES:
1. UNLESS NOTED OTHERWISE, PLACE GALVANIZED SHEET METAL POUR STOPS. POUR STOPS SHOWN ARE A MINIMUM.
2. WHERE OVERHANG DIMENSION EXCEEDS VALUE IN TABLE, A STEEL BENT PLATE WILL BE REQUIRED. SEE PLAN AND/OR SECTIONS FOR DETAILS. NOTIFY EOR FOR CONDITIONS NOT DETAILED.

MINMUM POUR STOP GAUGE

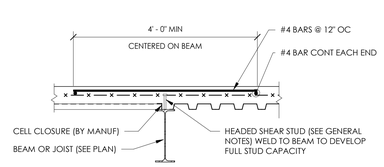
	OVERHANG (INCHES)										
SLAB THICKNESS	1	2	3	4	5	6	7	8	9	10	11
5"	20	18	18	16	16	14	14	12	12	10	10
6 1/2"	16	16	14	14	12	12	12	12	10	10	-

8 TYPICAL COMPOSITE DECK EOS
N.T.S.



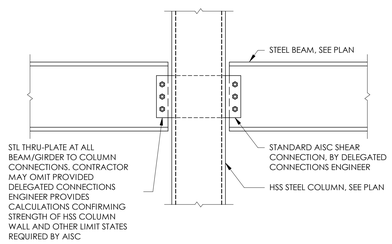
NOTES:
1. CONSTRUCTION JOINTS SHALL BE AS REQUIRED BY CONTRACTOR, AND SHALL BE LOCATED AS FOLLOWS:
   - *PARALLEL TO BEAMS: MIDDLE THIRD OF THE DISTANCE BETWEEN BEAMS*
   - *PERPENDICULAR TO BEAMS: WITHIN THE MIDDLE THIRD OF THE BEAM SPAN*
2. UNDER NO CIRCUMSTANCES SHALL ANY SAW CUT JOINTS BE PLACED 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.

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

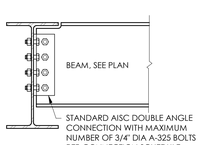


NOTE: SUPPORT REBAR WITH CHAIRS ABOVE FLOOR DECK

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



11 BEAM TO COLUMN CONNECTION
N.T.S.



12 BEAM TO GIRDER CONNECTION
N.T.S.

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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

STATE OF NEW YORK · PATRICK JAMES WILLIAMS · 100935 · LICENSED PROFESSIONAL ENGINEER

No.	DATE	DESCRIPTION

Drawn By:	JRL
Checked By:	LCA
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
TYPICAL STEEL DETAILS

Sheet No.
CTE S504

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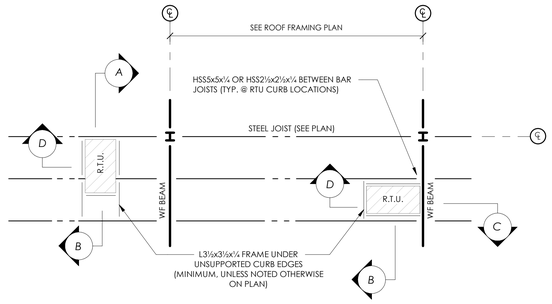
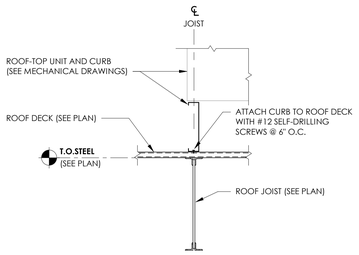
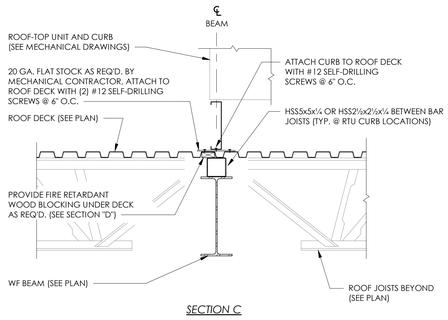


SCHEMATIC PLAN

NOTES:
1. COORDINATE EXACT SIZE, LOCATION AND ORIENTATION OF ALL ROOF-TOP UNITS WITH MECHANICAL CONTRACTOR.
2. MECHANICAL CONTRACTOR SHALL COORDINATE CURB DEPTHS WITH ROOF SLOPES TO PRODUCE A LEVEL TOP-OF-CURB. SEE ROOF FRAMING PLANS FOR SLOPES.
3. SEE "TYPICAL JOIST REINFORCEMENT DETAIL" AT SUPPORT LOCATIONS.
4. SEE "TYPICAL DETAIL AT ROOF OPENINGS" FOR FRAMING OF ALL DUCT PENETRATIONS THROUGH ROOF DECK.



SECTION A



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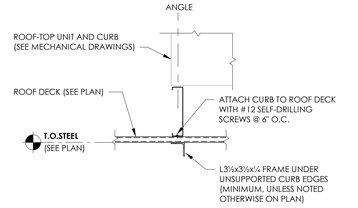

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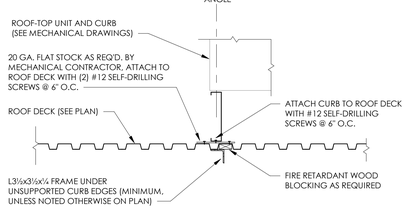
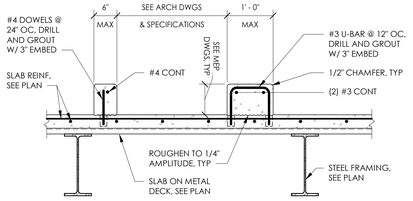
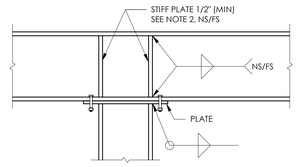


SECTION D

1 TYPICAL RTU CURB SUPPORT DETAILS
N.T.S.

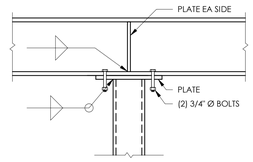


2 TYPICAL CURB ON COMPOSITE FLOOR DECK
N.T.S.

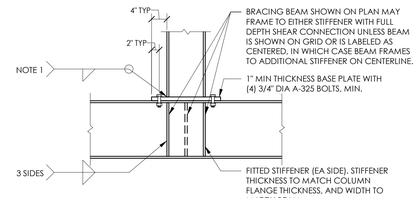


NOTES:
1. CAP PLATE CONNECTION SHALL BE DESIGNED FOR REACTIONS INDICATED.
2. BEAM LIMIT STATES SHALL BE CHECKED IN ORDER TO DETERMINE IF ADDITIONAL BEAM REINFORCING IS REQUIRED

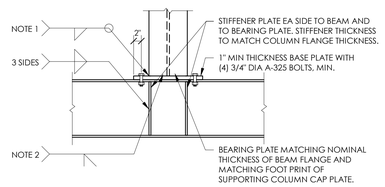
3 TYPICAL CAP PLATE DETAIL
N.T.S.



4 TYPICAL TUBE COLUMN CAP PLATE
N.T.S.



WIDE FLANGE WITH COLUMN WEB PARALLEL TO BEAM WEB OR HSS COLUMN



WIDE FLANGE WITH COLUMN WEB PERPENDICULAR TO BEAM WEB OR HSS WITH PERPENDICULAR DIMENSION WIDER THAN BEAM FLANGE

NOTES:
1. MINIMUM WELD SIZE PER MINIMUM SIZE OF FILLET WELD DETAIL, BUT NOT LESS THAN 1/4".
2. CJP BETWEEN BEARING PLATE AND SUPPORTED BEAM.
3. FULLY TENSION ALL BOLTS.

5 STEEL COLUMN ON STEEL BEAM
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/

6 COMPOSITE SLAB/GIRDER DETAIL
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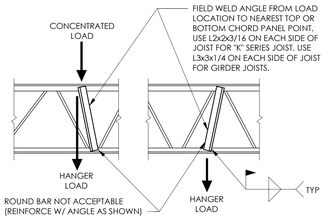
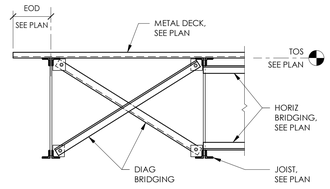
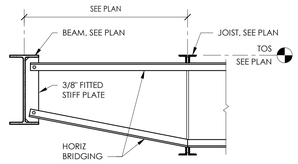


NOTES:
1. MODIFICATION IS TYP FOR ALL JOISTS SUPPORTING LOAD FROM TOP OR BOTTOM CHORD BETWEEN PANEL POINTS. VERIFY LOCATION AND NUMBER OF LOADS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. JOIST MANUFACTURER TO SHOW REINFORCING AT ALL CONCENTRATED LOADS WHOSE EXACT LOCATION IS SHOWN ON DRAWINGS.

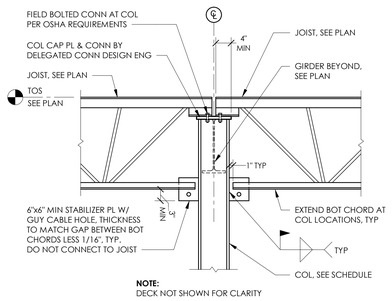
1 TYPICAL JOIST REINFORCING DETAIL
N.T.S.



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

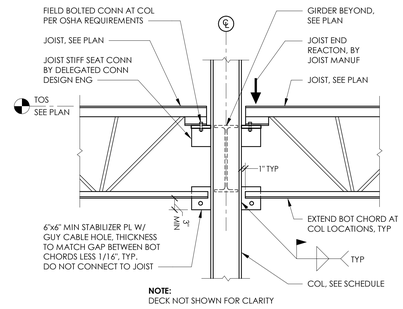


3 JOIST BRIDGING LINE TERMINATION AT BEAM
N.T.S.



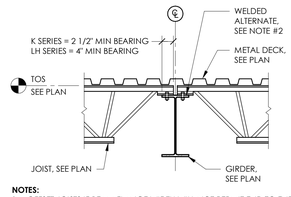
NOTE:
DECK NOT SHOWN FOR CLARITY

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



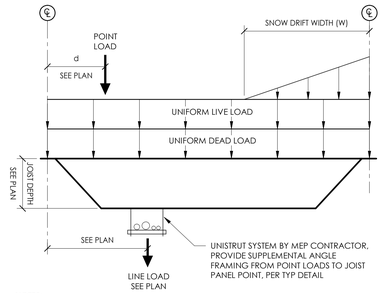
NOTE:
DECK NOT SHOWN FOR CLARITY

5 JOIST TO COLUMN CONNECTION
N.T.S.



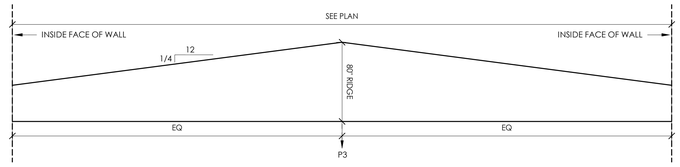
NOTES:
1. OFFSET JOISTS IF BEAM FLANGE WIDTH WILL NOT PERMIT END TO END BEARING ARRANGEMENT SHOWN.
2. 1" OF 1/8" FILLET WELD EACH SIDE OF SET FOR K-SERIES. 2" OF 1/4" FILLET WELD EACH SIDE OF SEAT FOR LH-SERIES.
3. (1) 1/2" DIA HIGH STRENGTH BOLT EACH SIDE OF SEAT FOR K-SERIES. (1) 3/4" DIA HIGH STRENGTH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

6 JOIST BEARING ON GIRDER
N.T.S.



NOTES:
1. NOT ALL LOADING APPLIES TO EACH JOIST. SEE PLAN FOR SPECIFIC AREA AND LINE LOADING FOR USE IN JOIST DESIGN.
2. UNIFORM DEAD AND UNIFORM SNOW LOADING AS OUTLINED IN DESIGN CRITERIA. ADDITIONAL UNIFORM SNOW LOADING MAY BE APPLICABLE WHERE SNOW DRIFTING IS PARALLEL WITH JOIST SPAN.

7 JOIST LOADING DIAGRAM
N.T.S.



80DLHSP

NOTES:
1. JOIST TO BE TOP CHORD BEARING
2. JOIST TO HAVE 7 1/2" DEEP JOIST SEAT
3. 80DLHSP2, JOIST CAMBER MUST BE LIMITED TO 2" AT MIDSPAN

BOTTOM CHORD POINT LOADS:
P1, BASKETBALL HOOP, 875 LB (LL)
P2, BASKETBALL HOOP, 100 LB (LL)
P3, WALK DRAW CURTAIN, 800 LB (LL)

8 SPECIAL JOIST LOADING DIAGRAM
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