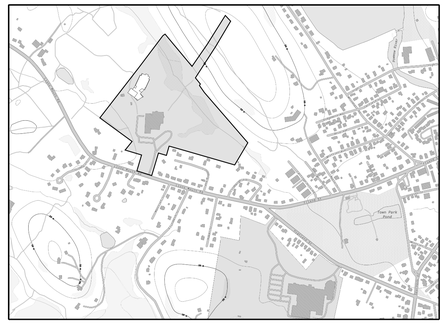
AMESBURY ELEMENTARY SCHOOL

AMESBURY MA

VOLUME 1 of 2
15 MAY 2020
60% COST ESTIMATE SET

Location Plan



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Symbols & Materials

- WALL SECTION (1 / 3.8.01)
- BUILDING SECTION (1 / 3.7.01)
- EXTERIOR ELEVATION (1 / 3.6.01)
- INTERIOR ELEVATION (1 / 5.4.01 / 2 / 3 / 4)
- DETAIL SECTION (1 / 3.9.01)
- PLAN DETAIL (1 / 3.9.01)
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- WINDOW TYPES (A)
- GLAZING TYPES (1)
- LOUVER TYPES (1)
- PARTITION TYPES (1)
- ROOM NUMBER (101)
- PROJECT NORTH (Called North)
- COLUMN LINES (14)
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- BUILDING SETBACK
- MATCH LINE
- CONCRETE MASONRY UNIT
- CONCRETE
- CONCRETE
- BRICK
- BITUMINOUS CONCRETE
- GYPSUM BOARD
- EARTH
- COMPACTED BASE COURSE
- SEALANT
- STEEL
- BATT INSULATION
- COMPRESSIBLE FILLER/ RIGID INSULATION
- FINISHED WOOD
- WOOD END GRAIN
- CONTINUOUS WOOD BLOCKING
- WOOD SHIM

General Abbreviations

+/- *or* ±	Plus or Minus / Approximately
<	Angle
[	Channel
Ø	Diameter
1HR	1-hour Fire Resistance Rated
2HR	2-hour Fire Resistance Rated
ADJ	Adjustable
AFF	Above Finish Floor
ALT	Alternate
ALUM	Aluminum
ACOUST	Acoustic / Acoustical
AP	Access Panel
ASB	Asbestos
ATC	Acoustic Tile Ceiling
ATHL	Athletic
A&VB	Air and Vapor Barrier
BLDG	Building
BLK	Block
BM	Bench Mark
B.O. *or* BOT	Bottom of
BRK	Brick
BSMT	Basement
C	Course(s)
CB	Catch Basin / Chalkboard
CBB	Cementitious Backerboard
CJ	Control Joint
CL *or* ℄	Center Line
CLSRM	Classroom
CLG	Ceiling
CLR	Clear
CM	Construction Manager
CMP	Composite Metal Panel
CMU	Concrete Masonry Unit
COL	Column
COMP	Compressible
CONC	Concrete
CONT	Continuous
CPT	Carpet
CRD	Cementitious Roof Deck
CT	Ceramic Tile
CU FT	Cubic Foot
CUH	Cabinet Unit Heater
CU YD	Cubic Yard
CVR	Cover
CW	Curtain Wall
DEMO	Demolition
DF	Drinking Fountain
DIM	Dimension
DN	Down
DO	Door Opening
DR/DRS	Door / Doors
DTL	Detail
DWG	Drawing (Also DRWG)
EA	Each
EJ	Expansion Joint
EL	Elevation (Vertical Height)
ELEC	Electric / Electrical
ELEV	Elevation View / Elevator
EMERG	Emergency
EOD	Edge of Deck
EOS	Edge of Slab
EQ	Equal
EQUIP	Equipment
ETBR	Existing to be Removed
ETR	Existing to Remain
EXIST	Existing (Also EXST'G and EX)
EXP	Exposed
EXT	Exterior
FAP	Fibrous Acoustic Panels
FCP	Fabric Covered Acoustic WD Panel
FD	Floor Drain
FDN	Foundation
FDVC	Fire Department Valve Connection
FE	Fire Extinguisher
FF	Finish Floor
FH	Fume Hood
FHC	Fire Hose Cabinet
FIN	Finish
FIB WD	Fibrous Wood
FIN	Finish
FLR	Floor
FL HD	Flat Head
FL HD MS	Flat Head Machine Screw
F.O.	Face of
FOF	Face of Foundation
FOM	Face of Masonry
FOS	Face of Stud
FOW	Face of Window
FP	Fire Protection
FR	Fire Rated
FRP	Fiberglass Reinforced Glass Panel
FTR	Finned Tube Radiator
FURN	Furnish / Furnished
FWP	Fibrous Wood Panel
GA	Gauge
GALV	Galvanized
GC	General Contractor
GFCMU	Ground Face CMU
GFI *or* GFCI	Ground Fault Circuit Interruptor
GFRG	Glass Fiber Reinforced Gypsum
GL	Glass
GLCMU	Glazed Face CMU
GT	Granite Tile
GYP	Gypsum
GWB	Gypsum Wall Board
GWB/AR	GWB: Abuse Resistant
GWF	Glazed Wall Finish (Epoxy)
H	High
HD	Head / Hand Dryer
HDW	Hardware (Also HDWE)
HDWD	Hardwood
HM	Hollow Metal
HORZ	Horizontal
HP	High Point / Handicapped
HR	Hour
HVC	Hose Valve Cabinet
ID	Inside Diameter
INCL	Include
INSUL	Insulation
INT	Interior
INV	Invert
J	Jamb
JT	Joint
KO	Knock Out
KIT	Kitchen
KP	Kickplate
L	Low
LCC	Lead Coated Copper
LCT	Linoleum Composite Tile
LGMF	Light Gauge Metal Framing
LOW	Limit of Work
LP	Low Point
LSG	Linoleum Sheet Goods
MAR	Marble
MAX	Maximum
MB	Marker Board
MECH	Mechanical
MFR	Manufacturer
MH	Manhole
MIN	Minimum
MISC	Miscellaneous
MO	Masonry Opening
MS	Machine Screw
MT	Marble Tile
MTL	Metal
MTD	Mounted
NAT	Natural Finish
ND	Feminine Napkin Disposal
NGMB	Non-Glare Marker Board
NIC	Not In Contract
NO	Number
NTS	Not To Scale
NV	Feminine Napkin Dispenser
OC	On Center
OD	Outside Diameter
OHFD	Overhead Folding Door
OHRD	Overhead Rolling Door
OHRG	Overhead Rolling Grille
OPG	Opening
OPP	Opposite
ORD	Overflow Drain
PLAM	Plastic Laminate
PCF	Pre-molded Compressible Filler
PFC	Performed Cladding
PL *or* ℄	Plate
PLAS	Plaster
PLYWD	Plywood
PM	Pressed Metal
PNL	Panel
PORC	Porcelain Tile
PR	Pair
PREFAB	Prefabricated
PREFIN	Prefinished
PSF	Pounds per Square Foot
PSI	Pounds per Square Inch
PT	Pressure Treated / Paper Towel Dispenser
PTD	Painted
PTN	Partition
PVC	Polyvinyl Chloride
PTT	Precast Terrazzo Tile
QT	Quarry Tile
R	Riser
RAD	Radius
RCB	Resilient Cove Base
RCP	Reflected Ceiling Plan
RD	Roof Drain
REINF	Reinforced
REQD	Required (Also REQ'D)
RES	Resinous Flooring
RHMS	Round Head Metal Screw
RM	Room
RNS	Rubber Nailing Strip
RO	Rough Opening
RTU	Roof Top Unit
RUB	Rubber Flooring
SD	Soap Dispenser
SECT	Section
SF	Square Foot
SFCMU	Split Face CMU
SFTU	Structural Facing Tile Unit
SHT	Sheet
SIM	Similar
SP	Station Point
SPEC	Specification
SRB	Straight Resilient Base
SS	Stainless Steel
SSF	Synthetic Sports Flooring
STD	Standard
STL	Steel
STLP	Steel Liner Panel
STR	Stair
STRUCT	Structure(al)
SUSP	Suspended
SYS	System
SCI	Science
T	Tread
TB	Tackboard
TDF	Transparent Dye Finish
TERR	Terrazzo
T&G	Tongue and Groove
TI	Tapered Insulation
T.O.	Top of
TP	Toilet Paper Dispenser
TS	Structural Tube Steel
TYP	Typical
UCD	Undercut Door
UON	Unless Otherwise Noted
USS	Underside of Structure
UTIL	Utility / Utilities
UV	Unit Ventilator
VCB	Vented Cove Base
VCP	Vitreous Clay Pipe
VCT	Vinyl Composite Tile
VERT	Vertical
VIF	Verify in Field
VSF	Vinyl Sheet Flooring
VTR	Vent Through Roof
VWC	Vinyl Wall Covering
W	Wide
w/ *or* W/	With
WD	Wood
WMP	Wire Mesh Partition
WO	Window Opening
w/o	Without
WP	Working Point
WR	Waste Receptacle
WWF	Welded Wire Fabric
WWM	Welded Wire Mesh
Z	Zee

Division of Work Abbreviations

DIVISION 01-GENERAL REQUIREMENTS	
011000-SUMMARY	(Summary of Work)
012200-UNIT PRICE	(Unit Prices)
012300-ALTERNATES	(Alternates)
015000-TEMP FAC	(Temporary Facilities and Controls)
DIVISION 02-EXIST'G CONDITIONS	
023000-SUBSURFACE EXPLORE	(Subsurface Exploration Data)
DIVISION 03-CONCRETE	
033000-CAST CONC	(Cast-In-Place Concrete)
DIVISION 04-MASONRY	
040001-MASONRY	(*Masonry Work)
DIVISION 05-METALS	
050001-MISC & ORN IRON	(*Miscellaneous and Ornamental Iron)
051200-STRCT STL	(Structural Steel Framing)
051226-SHEAR CONN	(Shear Connectors)
052100-STL JSTS	(Steel Joists)
053100-MTL DECK	(Metal Decking)
055000-MISC MTL	(Miscellaneous Metals (Part of 050001))
057000-ORN MTLS	(Ornamental Metals)
DIVISION 06-WOOD, PLASTICS AND COMPOSITES	
061000-RGH CARP	(Rough Carpentry)
062000-FIN CARP	(Finish Carpentry)
DIVISION 07-THERMAL AND MOISTURE PROTECTION	
070001-WD&C	(*Waterproofing, Dampproofing and Caulking)
070002-ROOF & FLSHG	(*Roofing and Flashing)
071326-A&VB	(Air and Vapor Barrier)
072100-INSUL	(Insulation)
074213-PREFORM CLAD	(Preformed Cladding)
074233-PHENOLIC SYS	(Phenolic Rainscreen System)
074247-FRC PANEL	(Fiber Reinforced Cementitious Panel Rainscreen)
076330-ROOF GARDEN SYS	(Green Roof Garden System)
078120-SPRAY FIREPROOF	(Spray Applied Fireproofing)
DIVISION 08-OPENINGS	
080001-MTL WINDOWS	(*Metal Windows)
080002-GLASS/GLAZING	(*Glass and Glazing)
081113-HOLLOW MTL	(Hollow Metal Doors and Frames)
081416-WD / PLAS DRS	(Wood & Plastic Doors)
083323-SPEC DRS	(Special Doors)
087100-FIN HRDWR	(Finish Hardware)
DIVISION 09-FINISHES	
090002-TILE	(*Tile)
090003-ACOUST TILE	(*Acoustical Tile)
090005-RES FLR	(*Resilient Flooring)
099007-PAINT	(*Painting)
092116-GWB	(Gypsum Board)
096466-ATHL FLR	(Athletic Flooring)
096816-CARPET	(Carpeting)
097700-FRP	(Fiberglass Reinforced Plastic Wall Panels)
098400-ACOUST WALL TRTMNT	(Acoustical Wall Treatment)
099737-DRY ERASE COATING	(Dry Erase Coating)
DIVISION 10-SPECIALTIES	
101100-MB & TB	(Markerboards and Tackboards)
101400-IDENT DEV	(Identifying Devices)
101453-TRAFFIC SIGN	(Traffic Signage)
102113-COMPRT & CUBICLES	(Compartments and Cubicles)
102600-PREFAB SPECS	(Prefabricated Specialties)
102813-TOILET/BATH ACC	(Toilet and Bath Accessories)
105113-LOCKERS	(Lockers)
DIVISION 11-EQUIPMENT	
113100-APPL	(Appliances)
114000-FOOD SRVC	(Food Service Equipment)
115213-PROJ SCRN	(Projection Screens)
116143-STAGE DRAPERY	(Stage Drapery)
116600-ATHL & SPRTS EQUIP	(Athletic and Sports Equipment)
DIVISION 12-FURNISHINGS	
122413-ROLLER SHADES	(Roller Shades)
124813-MATS	(Mats)
DIVISION 14-CONVEYING EQUIPMENT	
140001-ELEV	(*Elevators and Lifts)
DIVISION 21-FIRE SUPPRESSION	
210001-FIRE PROT	(*Fire Protection)
DIVISION 22-PLUMBING	
220001-PLUMB	(*Plumbing)
DIVISION 23-HEATING VENTILATING AND AIR CONDITIONING	
230001-HVAC	(*Heating, Ventilating and Air-Conditioning)
DIVISION 25-BUILDING AUTOMATION SYSTEM	
250001-BAS	(Building Automation System)
DIVISION 26-ELECTRICAL	
260001-ELEC	(*Electrical Work)
265561-EMERG RADIO	(Emergency Radio Communication System)
DIVISION 27 - COMMUNICATIONS	
270100-CABLE SYS	(Structured Cabling System)
274000-A/V COMM	(Audio-Video Communications System)
275000-DISTRIBUTED COMM	(Distributed Communications System)
DIVISION 28 - ELECTRICAL SECURITY	
280000-INTEGRATED SECURITY	(Integrated Security Systems)
DIVISION 31-EARTHWORK	
310125-LANDSCAPE MAINT	(Landscape Maintenance)
311000-SITE PREP	(Site Preparation)
311320-EXSTG PLNTS	(EXST'G Plants to Remain)
312000-EARTHWORK	(Earthwork)
312219-FIN GRADE	(Finish Grading)
312319-CONTROLLED BLASTING	(Controlled Blasting)
312500-EROSION/SEDIMENT CNTRL	(Erosion and Sedimentation Control)
DIVISION 32-EXTERIOR IMPROVEMENTS	
321200-FLEX PAVING	(Vehicular Flexible Paving)
321300-RIGID PAVING	(Vehicular Rigid Paving)
321313-SITE CONC	(Site Concrete)
321400-POROUS UNIT PAVING	(Porous Unit Paving)
321600-CURBS/GUTTERS	(Curbs and Gutters)
321700-PAVING SPECS	(Paving Specialties)
321800-BITU CONC SURF	(Bituminous Concrete Paving / Athletic Surfacing)
321810-PLAYGROUND SURF	(Playground Safety Surfacing)
321820-ATHL SURF	(Athletic Surfacing)
323000-MISC SITE IMPRVMNT	(Miscellaneous Site Improvements)
323100-FENCE	(Fencing)
325200-SYNTHETIC TURF	(Synthetic Turf)
329000-PLANTS	(Plantings)
329113-SOIL PREP	(Soil Preparation)
329200-LAWN/GRASS	(Lawns and Grasses)
DIVISION 33-UTILITIES	
331000-WATER DISTR	(Water Utilities)
333000-SANITARY SEWER	(Sanitary Sewerage Utilities)
334000-STORM DRAINAGE	(Storm Drainage)
334820-LNDSCP SUBDRAIN	(Landscape Subdrainage)

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AMESBURY ELEMENTARY SCHOOL

193 LIONS MOUTH RD AMESBURY MA 01913

LICENSE STAMP

Date: 15 MAY 2020

Revisions

Number	Date	Description

60% COST ESTIMATE SET

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G.0.01

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Applicable Codes

Code Type	Applicable Code (Model Code Basis)
Building	780 CMR: Massachusetts State Building Code, 9th Edition (2015 International Building Code)
Fire Prevention	527 CMR: Massachusetts Fire Prevention Regulations
	(2015 NFPA 1)
	M.G.L. Chapter 148 Section 26G – Sprinkler Protection
Accessibility	521 CMR: Massachusetts Architectural Access Board Regulations 2010 ADA Standards
Electrical	527 CMR 12.00: Massachusetts Electrical Code (2020 National Electrical Code)
Elevators	524 CMR: Massachusetts Elevator Code with 2018 Amendments
	(ASME A17.1-2013/CSA B44-13: Safety Code for Elevators and Escalators)
Mechanical	2015 International Mechanical Code (IMC)
Plumbing	248 CMR: Massachusetts Plumbing Code
Energy Conservation	2018 International Energy Conservation Code

Table 5-1: Height and Area Limitations for Construction Type II B and Education/Assembly Use Groups E, A-2 & A-3

	Groups E, A-2/A-3	Group E	Group A-2/A-3
	Height	Area Per Floor	Area Per Floor
Tables 504.3, 504.4 & 506.2 - Allowable Height and Building Areas Type II B Construction	75 feet, 3 stories	43,500 SF	28,500 SF
Table 506.2 - Allowable Area & Frontage Increase Considering *(506.2.4, Equation 5-3):* Aa = [At + (NSx/If)] **Group E**: Aa = [43,500 SF + (14,500 SF x 0.75)] = 54,375 SF **Group A-2/A-3**: Aa = [28,500 SF + (9,500 SF x 0.75)] = 35,625 SF		10,875 SF	7,125 SF
Maximum Height & Area Per Floor Allowed	**75 feet, 3 stories**	**54,375 SF**	**35,625 SF**
Proposed Height & Building Areas	**47.5 feet, 3 stories**	**35,860 SF**	**6,110 SF**

The building is designed as a separate use occupancy to comply with the area limitations (780 CMR 508.4.2). According to 780 CMR Table 508.4, Use Groups E, A-2 & A-3 are not required to have a fire resistance rated separation even when treated as separated occupancies. However, the building area must be such that the sum of the ratios of the floor area of each use group divided by the allowable area for each use group does not exceed one. This calculation is shown below:

Separated Use Calculations

Ground Floor Use Group A-2 Use Group E

Actual Area: 3,741 SF + 32,574 SF = 0.70 < 1
Allowed Area: 35,625 SF 54,375 SF

First Floor Use Group A-3 Use Group E

Actual Area: 6,110 SF + 29,750 SF = 0.72 < 1
Allowed Area: 35,625 SF 54,375 SF

Second Floor Use Group E: 26,225 SF

Table 6-1: Fire-Resistance Rating Requirements for Building Elements - Type IIB (780 CMR Table 601 & Table

Building Element	Required Fire Resistance Rating
	Type II B (Noncombustible - Unprotected)
Structural frame including columns, girders, trusses	0
Bearing Walls	
Exterior	0
Interior	0
Nonbearing Exterior Walls & Partitions (from Table	
Fire Separation Distance Less Than 5 ft	**1**
Fire Separation Distance Between 5 ft and 10 ft	**1**
Fire Separation Distance Between 10 ft and 30 ft	0
Fire Separation Distance greater than 30 ft	0
Nonbearing Interior Walls & Partitions	**0**
Floor Construction Including supporting beams and joists	0
Roof Construction Including supporting beams and joists	0

NOTES:

(1) Portions of the structutral frame and floor construction that support rated wall assemblies must have the same rating as the wall supported. *(780 CMR 704.1)*

(2) Exit enclosures (including interior stairways and interior exit ramps) shall be enclosed with fire barriers carrying as resistance rating of… not less than 1 hour where connecting less than 4 floors.

(3) Shaft enclosures shall not be less than 1 hour rated for shafts connecting less than 4 floors. Duct penetrations not in shafts shall have automatic dampers at each floor.

Table 10-1: Occupant Load (780 CMR Table 1004.1.2)

Floor	Use	SF / Person	Area	Occupant Load by Table	Actual Number of Occupants [1]	Design Occupant Load [2]
Ground Floor	Pre-K Classrooms (2)	20 net	1,960 NSF	98	52	98
	Kindergarten Classrooms(9)	20 net	8,820 NSF	441	216	441
	Project Areas (4)	20 net	512 NSF	28	24	28
	RISE Motor Room	50 net	660 NSF	13	8	13
	Teacher Planning/Dining	15 net	483 NSF	32	24	32
	Quiet Room	50 net	180 NSF	4	3	4
	RISE	20 net	980 NSF	49	18	49
	RISE Jr.	20 net	980 NSF	49	18	49
	Small Group Rooms (2)	15 net	384 NSF	26	16	26
	RISE Small Group	20 net	304 NSF	16	8	16
	Custodial Closet	300 gross	104 GSF	1	0	1
	Cafeteria (Assembly-Concentrated)	7 net	2,896 NSF	414	350	414
	Additional Guests [3]	*15 net*	*2,845 NSF 193*	*190*		
	Platform	15 net	845 NSF	57	50	57
	Kitchen (incl. Servery, Recycling, Freezer, Cooler, Toilet & Mop)	200 gross	1,824 GSF	9	7	9
	Kitchen Office	100 gross	108 GSF	1	1	1
	Dry Storage	300 gross	187 GSF	1	0	1
	Network/Elec, EE, Elev Control Rm, Main Elec/ Sprinkler/Mech/Receiving/Recycle/Trash/ Custodian Work Room	300 gross	3,211 GSF	11	8	11
	Custodial Office	100 gross	155 GSF	2	2	2
	Total Ground Floor Occupant Load			1252	805	**1,252**
First Floor	Classrooms (7)	20 net	5,985 NSF	300	182	300
	Cubs Classroom	20 net	855 NSF	43	26	43
	Literacy Library	20 net	855 NSF	43	26	43
	ISN Classroom	20 net	1,194 NSF	60	21	60
	Project Areas (4)	20 net	792 NSF	40	48	48
	Quiet Room	50 net	163 NSF	4	3	4
	Resource Room	20 net	498 NSF	25	12	25
	Student Support	20 net	514 NSF	26	14	26
	SLP	20 net	256 NSF	13	6	13
	Small Group	15 net	155 NSF	11	8	11
	Storage (Sped)	300 gross	114 GSF	1	0	1
	Custodian	300 gross	84 GSF	1	0	1
	Music Classroom	20 net	1,221 NSF	62	50	62
	Practice (2)	20 net	238 NSF	12	11	12
	BCBA Office	100 gross	188 GSF	2	4	4
	Psychologist's Office	100 gross	182 GSF	2	4	4
	Adjustment Counselor's Office	100 gross	252 GSF	3	4	4
	SPED Facilitator's Office	100 gross	152 GSF	2	4	4
	SPED Conference	15 net	245 NSF	17	16	17
	PT	50 gross	594 GSF	12	8	12
	OT	50 gross	311 GSF	7	4	7
	OT/PT Storage	300 gross	123 GSF	1	0	1
	Custodial Closet	300 gross	65 GSF	1	0	1
	Gymnasium (Max Assembly use)	7 net	3,750 NSF	536	500	536
	Gymnasium (Typical School Use: Gym Class) [3]	*50 gross*	*6,110 GSF 123*	*50*		
	PE Office	100 gross	142 GSF	2	2	2
	Gym Storage	300 gross	150 GSF	1	0	1
	General Office/ Principal's Office/Spare/Mail/Kit	100 gross	1,760 GSF	18	15	18
	Conference	15 net	249 NSF	17	16	17
	Nurse	100 gross	272 GSF	3	3	3
	Nurse Office	100 gross	160 GSF	2	2	2
	Social Worker/Guidance Office	100 gross	153 GSF	2	4	4
	Elec. Data (2)	300 gross	290 GSF	1	0	1
	Total First Floor Occupant Load			1,270	993	**1,287**
Second Floor	Classrooms (7)	20 net	6,006 NSF	300	182	300
	Project Areas (4)	20 net	792 NSF	40	48	48
	Engineering	20 net	858 NSF	43	26	43
	LBP Classroom	20 net	858 NSF	43	14	43
	NAS Classroom	20 net	980 NSF	49	10	49
	Art Classroom	20 net	924 NSF	47	26	47
	Kiln & Art Storage	300 gross	158 GSF	1	0	1
	Resource Room	20 net	497 NSF	25	12	25
	Student Support	20 net	514 NSF	26	14	26
	EL	20 net	529 NSF	27	14	27
	Title 1 Room	20 net	589 NSF	30	14	30
	SLP	20 net	255 NSF	13	6	13
	Small Group Room	15 net	154 NSF	11	8	11
	Small Group Room	15 net	172 NSF	12	8	12
	Library/Media Center			50	56	56
	Reading	50 net	455 NSF	*10*		
	Teaching	20 net	394 NSF	*20*		
	Stacks/Office/Circulation Desk	100 gross	1,976 GSF	*20*		
	Staff Lunch Room	15 net	341 NSF	23	17	23
	Teacher Workroom	100 gross	170 GSF	2	2	2
	Green Roof	100 gross	890 GSF	9	0	9
	Custodial Closet	300 gross	84 GSF	1	0	1
	Storage	300 gross	106 GSF	1	0	1
	Custodial Storage	300 gross	135 GSF	1	0	1
	Elec	300 gross	105 GSF	1	0	1
	Data	300 gross	91 GSF	1	0	1
	BDA	300 gross	41 GSF	1	0	1
	Mechanical	300 gross	400 GSF	2	0	2
	Total Second Floor Occupant Load			759	457	**773**

1 **Actual number of Occupants** - The actual number of occupants for whom each occupied space, floor or building is designed.

2 **Design Occupant Load** (1004) - In determining means of egress requirements, the largest number of occupants computed in accordance with Sections 1004.1 through 1004.6.

3 **Assembly Mode Occupancies** -at Gym & Cafeteria are used for Total Floor Occupant load calculation (and to show adequacy of exits). Number of occupants during normal school operation: Cafeteria Lunch & Gym Class (smaller than Assembly Occupancies) are shown for information only and do not contribute to Total Floor Occupancy Load

Table 8-1: Interior Wall & Ceiling Finish Requirements by Occupancy (780 CMR Table 803.11)

GROUP	SPRINKLERED		
	Exit stairways and ramps and exit passageways (a)	Corridors & enclusure for exit access Stairways & Ramps	Rooms and enclosed spaces
A-2 & A-3	B	B	C
E	B	C	C

(a) Class C shall be permitted for wainscotting or paneling of not more than 1000sf of surface area in grade lobby.

Table 10-2: Egress Width Per Occupant Served (780 CMR Section 1005.3.1 exception 1 and Section 1005.3.2 exception 1)

OCCUPANCY	WITH SPRINKLER SYSTEM	
	Stairways (inches per occupant)	Other egress components (inches per occupant)
All Occupancies other than H & I-2	0.2	0.15

Table 10-3: Exit Access Travel Distance (780 CMR Table 1017.2)

Occupancy	Without Sprinkler System (feet)	With Sprinkler System (feet)
A, **E**, F-1, I-1, M, R, S-1	200	**250**

Table 10-4: Corridor Fire-Resistance Rating (780 CMR Table 1020.1)

Occupancy	Occupant Load Served By Corridor	Required Fire-Resistance Rating (hours)	
		Without Sprinkler System	With Sprinkler System
A, B, E, F, M, S, U	Greater than 30	1	**0**

Table 10-5: Minimum Number of Exits or Access to Exits per Story (780 CMR Table 1006.3.1)

Occupant Load per Story	Minimum Number of Exits or Access to Exits from Story
1-500	2
501-1,000	3
More than 1,000	4

Table 10-6: Number of Exits by Floor for Occupant Load

Floor	Occupant Load	Number of Exits Required	Number of Exits Provided	Total Capacity of Exits Provided
GROUND FLOOR	1,252	4	4(A)	1,718
FIRST FLOOR	1,287	4	5(B)	1,878
SECOND FLOOR	773	3	3	900

NOTES:

A. The total capacity of exits capacity provided shown for the ground floor includes Cafeteria Exit but does not include exterior door exit capacity from Mechanical/Receiving spaces.

B. The total capacity of exits capacity provided shown for the first floor includes (2) exterior door exits from Gymnasium space. Ocupant Load listed of for Gym in Assembly Mode (Maximum).

Table 248 CMR 10-2: Min. Facilities for Building Occupancy - Use Group Educational (248 CMR 10.10 (18) Table 1)

	Fixture Requirements	Population note (k)	Fixtures Required	Fixtures Provided
Kindergarten & PreK Students				
Note (a)	1 water closet / 20	144	8	12
	1 lavatory / 20	144	8	12
Elementary Students				
Note (b) Female	1 water closet / 30	240	8	10 + (3) gen ntrl (l)
	1 lavatory / 60	240	4	10 + (3) gen ntrl (l)
Male	1 water closet / 60	240	4	5 + (3) gen ntrl (l)
	1 urinal / 60	240	4	5
	1 lavatory / 60	240	4	10 + (3) gen ntrl (l)
All Students (Max), note (e)	1 drinking fountain / 75	470	7	10
Staff	* (or majority fraction thereof)	70 / 2		
Note (c) Female	1 water closet / 20	35	2	4
	1 lavatory / 40	35	1	4
Male	1 water closet / 25	35	2	3
	1 lavatory / 40	35	1	3
Kitchen Staff	note (c)	4		
Note (d)	1 water closet / 20	4	1	1 gender neutral
	1 lavatory / 40	4	1	1 gender neutral
Assembly Use of Cafeteria	* (or majority fraction thereof)	350		
Note (e) Female	1 water closet / 200	175	1	1 gen ntrl + 2, note (i)
	lavatories 1/200 - note (g)	175	1	1 gen ntrl +2, note (i)
Male	1 water closet / 600	175	1	1 gen ntrl +1, note (i)
	1 urinal / 200	175	1	1, note (i)
	lavatories 1/200 - note (g)	175	1	1 gen ntrl +2, note (i)
Assembly Use of Gym (f)	* (or majority fraction thereof)	535 / 2		
Note (f) Female	1 water closet / 200	268	2	6 + (1) gen ntrl
	lavatories - note (g)	268	2	6 + (1) gen ntrl
Male	1 water closet / 600	268	1	3+ (1) gen ntrl
	1 urinal / 200	268	2	3
(Calc. for Max. - Community Use)	lavatories - note (g)	268	2	6 + (1) gen ntrl
Other Fixtures.	Nurse's WC & lavatory -note (h)	NA	1	1 gender neutral
	Rise & ISN -note (i)	NA		
	Custodial Serv. Sink- note (j)	NA	3 (min 1 per floor)	3
	Rec/Recy/Trash & K Mop Sinks	NA	NA	2
	Rec/Recy/Trash & K Serv. Sink	NA	NA	2

NOTES:

(a) (1) Water closet and (1) lavatory are provided at each of (3) **Pre-K, (8) Kindergarten & Rise Junior classrooms** at a rate of 1/20 Pre-K, Kindergarten & Rise Jr. students. Toilet rooms are directly off each classroom. Gender neutral toilet permitted per 248 CMR 10.10 (18h2).

(b) (10) multi fixture toilets (5 Girls & 5 Boys) the academic & community wings satisfy **student** fixture counts.

(c) The project provides single user gender neutral toilets for **staff** toilets for women and men. For the purpose of calculating the total number of required gender-neutral toilets: four (4) toilet rooms are calculated for female use and three (3) for male use. The calculation of the minimum number of fixtures required will use the more stringent rate: 1 water closet /20; 1 lavatory /40 (75 staff, 4 WC, 2 lavatories required). 7 WC & 7 Lavatories are provide: (6) (2 each on each of 3 academic floors and (1) in Administration.

(d) Separate toilet facilities are required for **kitchen staff** per 248 CMR 10.10 (18h5), gender neutral toilet permitted per 248 CMR 10.10 (18i3).

(e) The plumbing fixture requirement for assembly within an educational setting are based on the number of seats. The fixture requirements for the **Cafeteria as Assembly** (175W:1 WC; 175M,1WC & 1 urinal) are met by the multi-fixture toilet rooms located on the ground floor. Additional multi fixture toilets on the first floor are within the 300' requirement stated in 248 CMR (18j)h)3. There is also (1) accessible gender-neutral adult toilet available off the lobby.

f. The plumbing fixture requirement for assembly within an educational setting are based on the number of seats. The fixture requirements for the **Gym as Assembly** (268 W: 2 WC; 268 M: 1 WC & 2 urinals) is met by the combined fixtures proposed on Ground, First and Second floors (W: 6 WC, M: 3 WC & 3 urinals provided). These are within the 300' requirement stated in 248 CMR (18)h)3. There is also (1) accessible gender-neutral adult toilet available off the lobby.

(h) The Toilet room off the N **urse suite** is for the convenience of sick students. The fixture requirement for these students is fully met by notes (a) & (b) above.

(i) **Rise & ISN** are Special Education rooms with individual toilets for the convenience of those students . These are in addition to the multi-fixture toilets which meet the fixture counts for students.

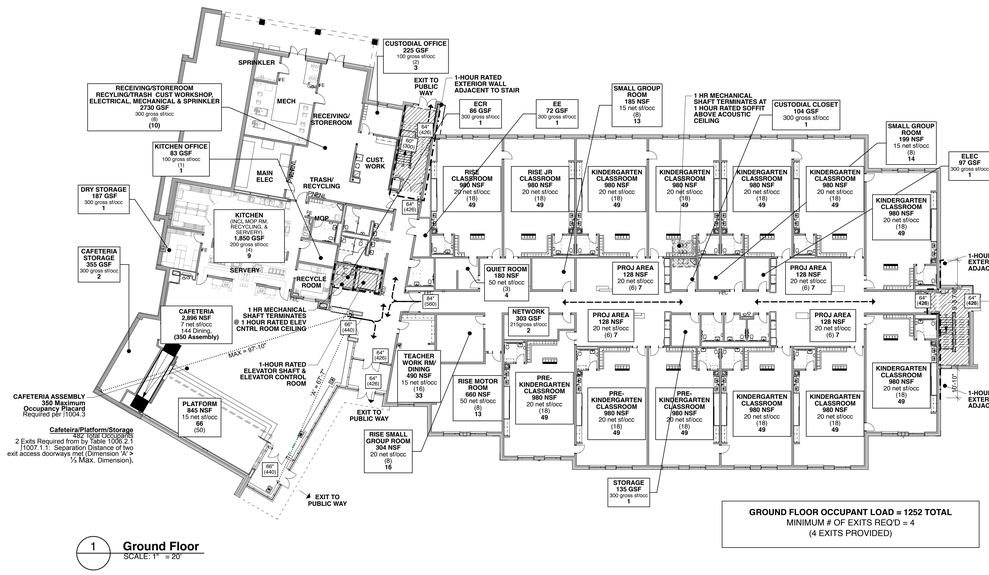
(j) Service Sinks: One (1) minimum service sink provided per floor.

(k) Projected actual enrollment = **470** (PreK, Kindergarten + Grades 1 & 2 Elementary students). Projected total staff = **75.**

(l) (3) **Gender neutral student toilets** are provided (1 each on each of 3 academic floors) These are in addition to the multi-fixture toilets which meet the fixture counts for students.

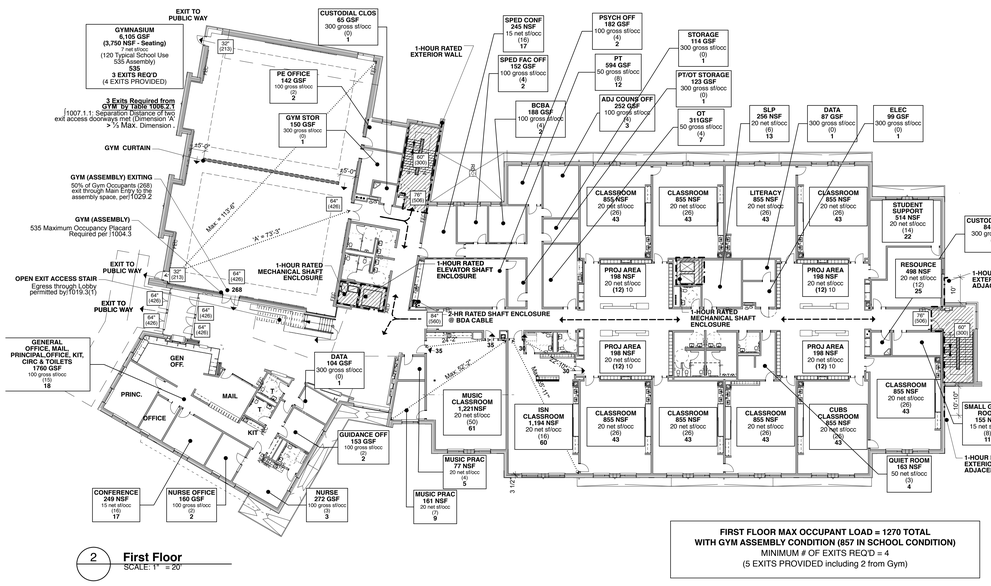
CODE PLAN LEGEND

- 1 HR RATED CONSTRUCTION
- 2 HR RATED CONSTRUCTION
- 1 HR WALL & OPENING PROTECTIVES
- 2 HR WALL & OPENING PROTECTIVES
- HORIZONTAL ASSEMBLY
- 29 → CUMMULATIVE OCCUPANT LOAD (at Element of Egress)
- Indicates Choice of Two or More Egress Paths Available
- 84" (060) Width Available Max. Occ. Served
- CLASSROOM 855 NSF 20 net sf/occ (26) 43 — OCCUPANT EGRESS CRITERIA Occupant Load Square Footage Factor per Table 10-1 Occupant Load (Design Occupancy) Note: for large of the 2 numbers is used or scaled & add and is used for exit calculations
- 70'-0" — Separation Distance of two exit access doorways (where required) per 1007.1.1



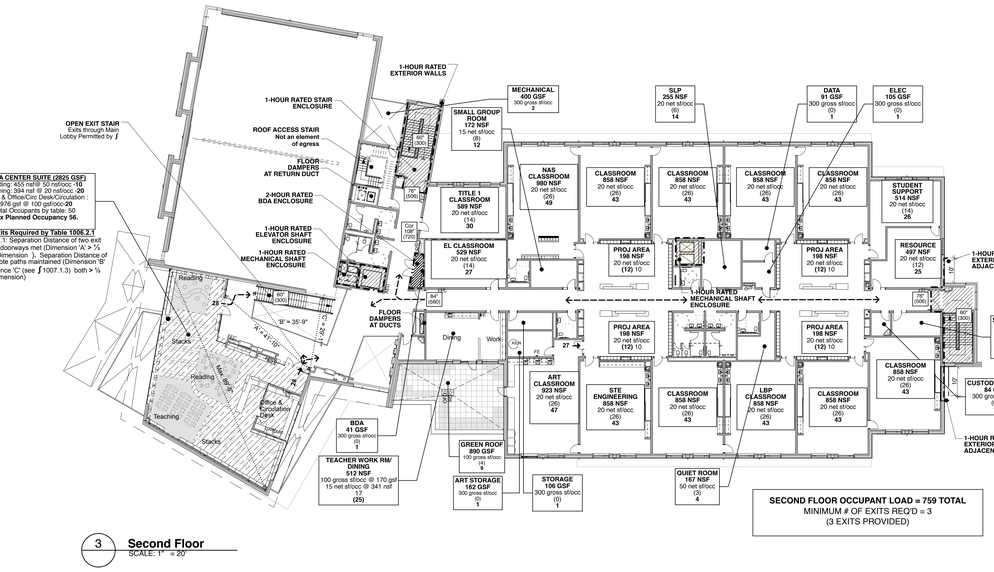
GROUND FLOOR OCCUPANT LOAD = 1252 TOTAL
MINIMUM # OF EXITS REQ'D = 4
(4 EXITS PROVIDED)

1 **Ground Floor**
SCALE: 1" = 20'



FIRST FLOOR MAX OCCUPANT LOAD = 1270 TOTAL
WITH GYM ASSEMBLY CONDITION (857 IN SCHOOL CONDITION)
MINIMUM # OF EXITS REQ'D = 4
(5 EXITS PROVIDED including 2 from Gym)

2 **First Floor**
SCALE: 1" = 20'



SECOND FLOOR OCCUPANT LOAD = 759 TOTAL
MINIMUM # OF EXITS REQ'D = 3
(3 EXITS PROVIDED)

3 **Second Floor**
SCALE: 1" = 20'

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KEY PLAN

NORTH ARROW — STAMP

Date: 15 MAY 2020

Drawn By: TM

Scale: NTS

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Code Analysis - Occupancy & Egress

G.0.02

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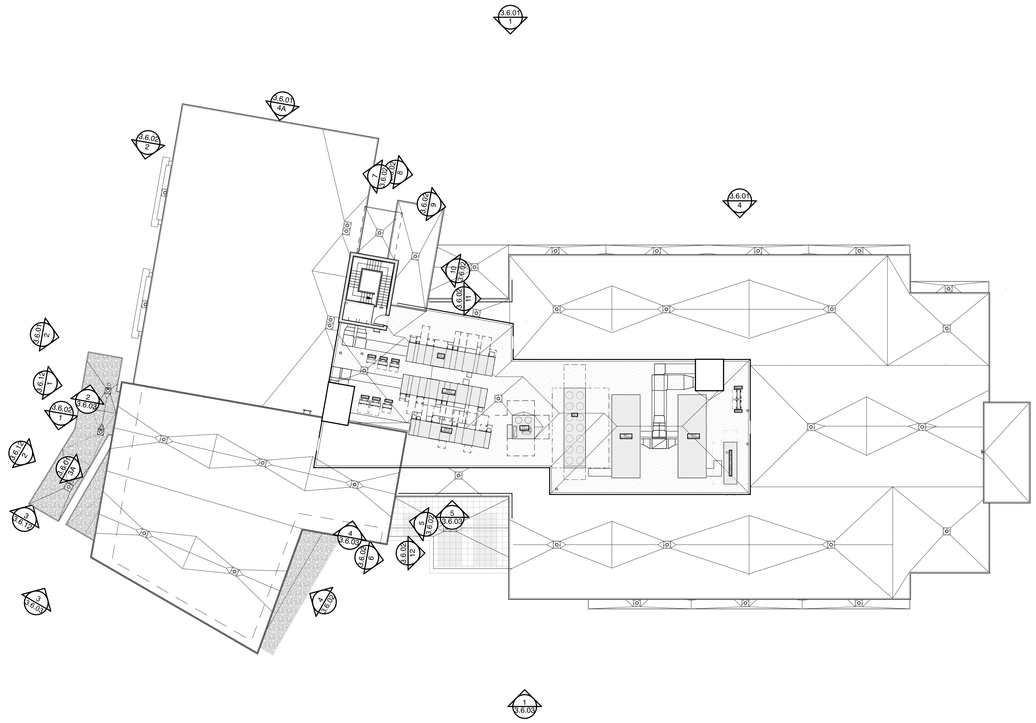
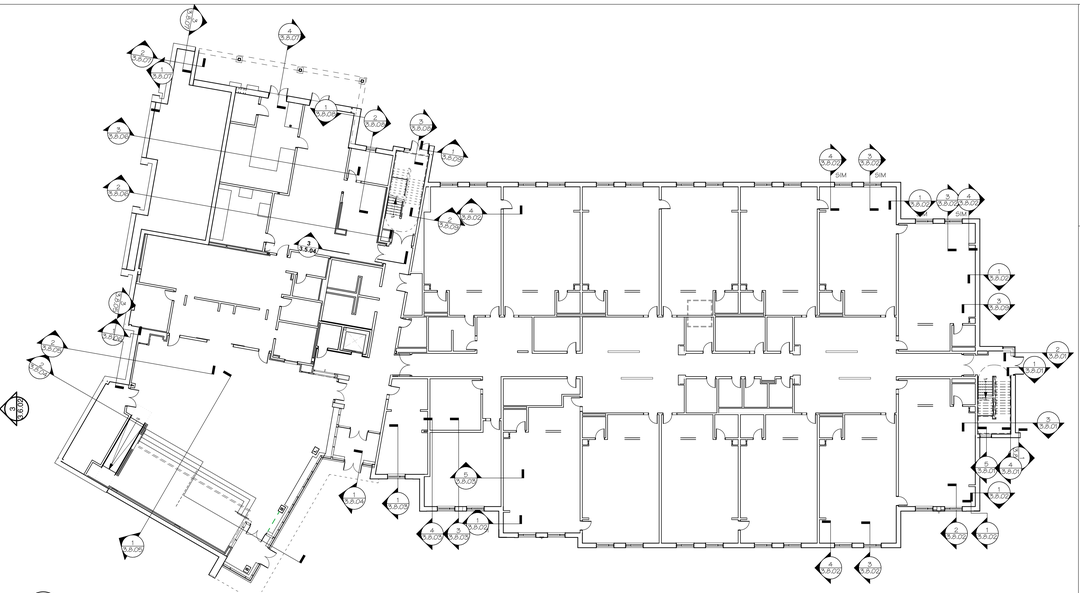
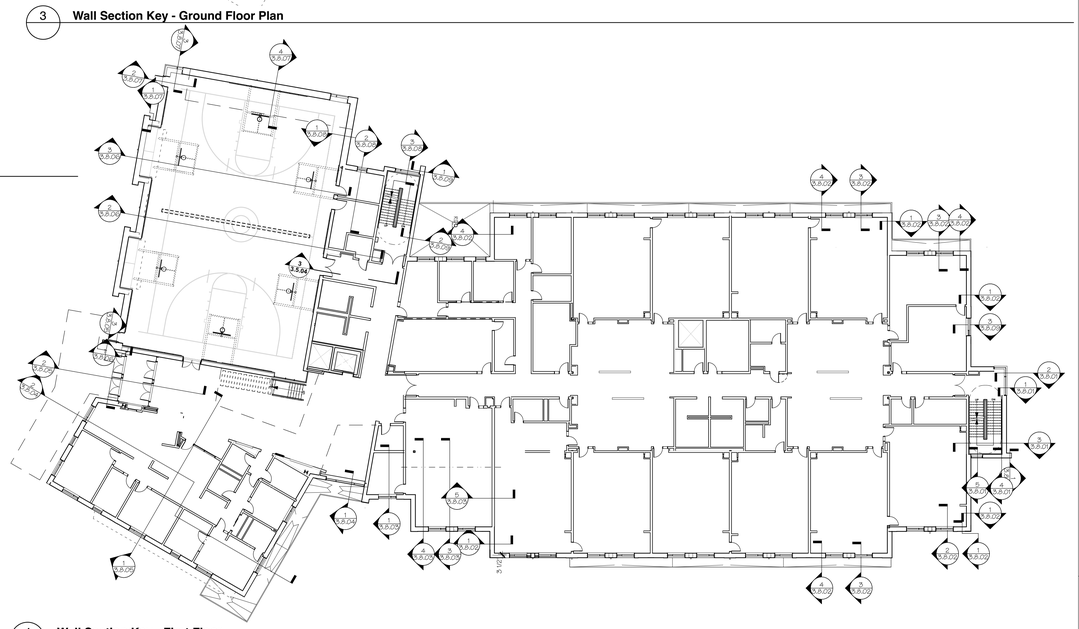


1 **Exterior Elevation Key Plan**

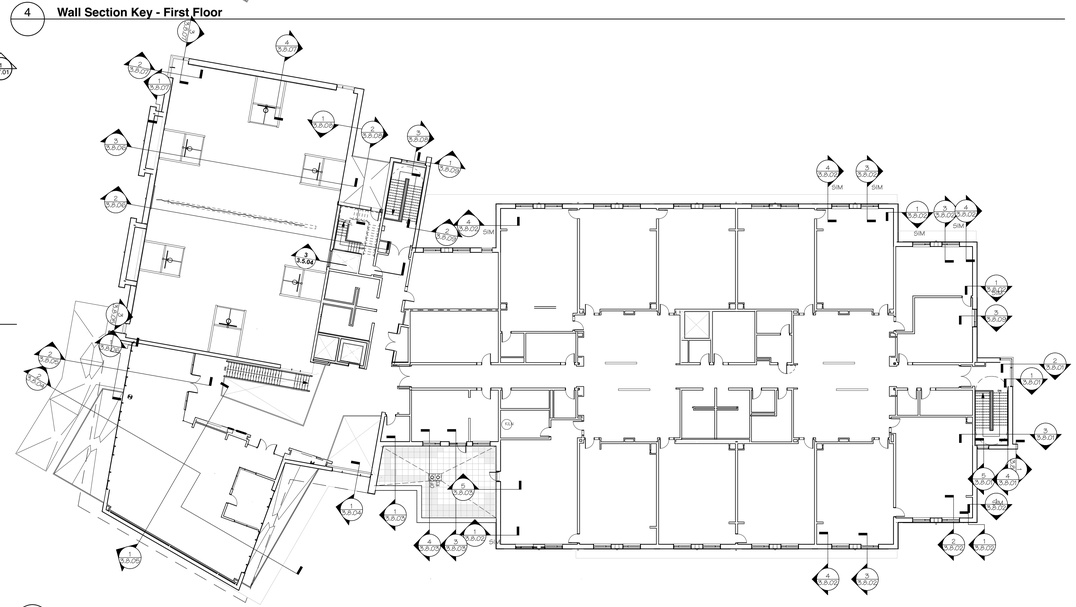


3 **Wall Section Key - Ground Floor Plan**



4 **Wall Section Key - First Floor**

2 **Building Section Key Plan**



5 **Wall Section Key - Second Floor**
SCALE: 1:220

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KEY PLAN

NORTH ARROW *STAMP*

Date: 15 MAY 2020

Drawn By:

Scale: NTS

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Keying Diagram - Ext Elevations, BIdg & Wall Sections

G.0.03

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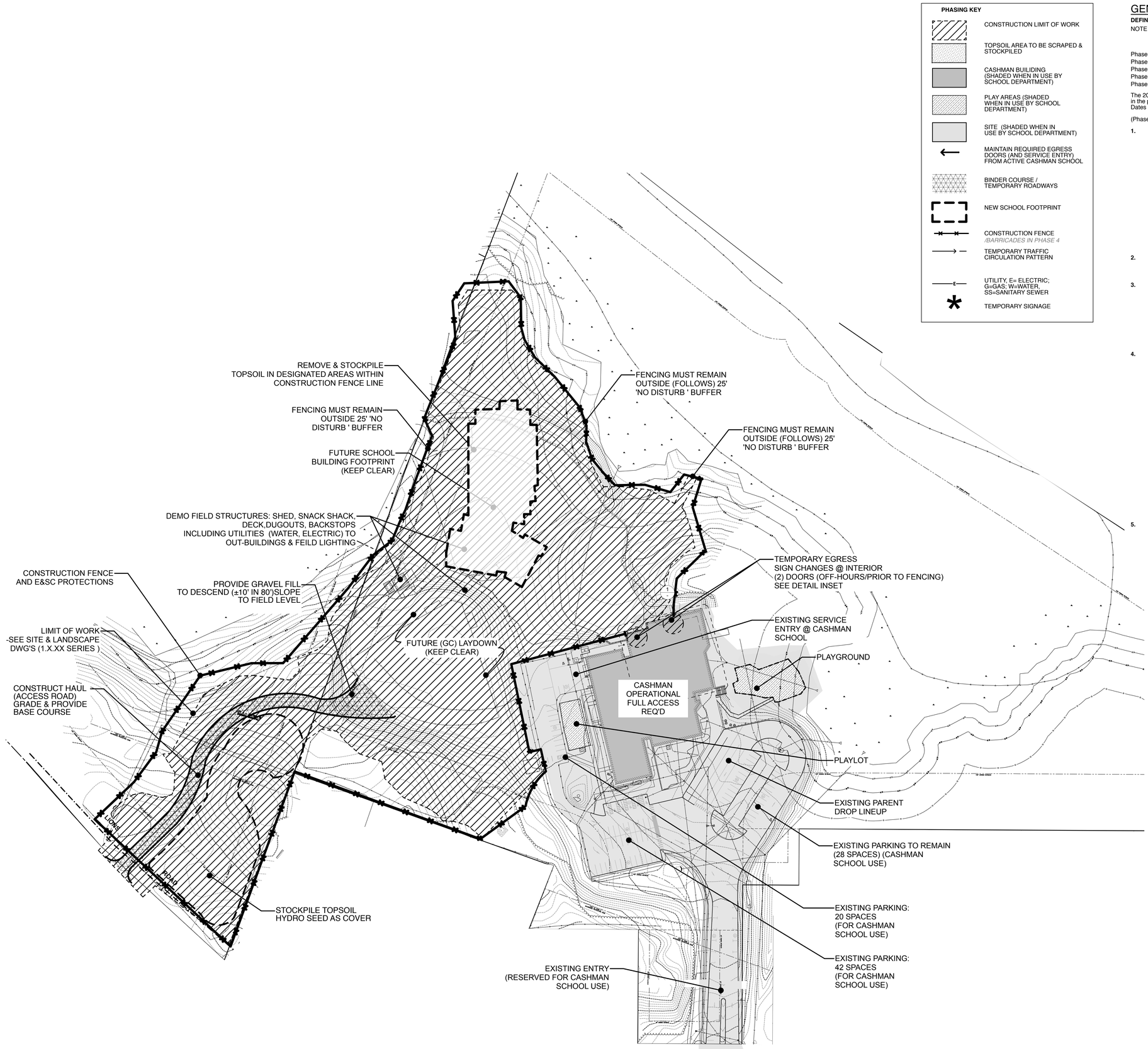

PHASING KEY

- CONSTRUCTION LIMIT OF WORK
- TOPSOIL AREA TO BE SCRAPED & STOCKPILED
- CASHMAN BUILIDING (SHADED WHEN IN USE BY SCHOOL DEPARTMENT)
- PLAY AREAS (SHADED WHEN IN USE BY SCHOOL DEPARTMENT)
- SITE (SHADED WHEN IN USE BY SCHOOL DEPARTMENT)
- MAINTAIN REQUIRED EGRESS DOORS (AND SERVICE ENTRY) FROM ACTIVE CASHMAN SCHOOL
- BINDER COURSE / TEMPORARY ROADWAYS
- NEW SCHOOL FOOTPRINT
- CONSTRUCTION FENCE */BARRICADES IN PHASE 4*
- TEMPORARY TRAFFIC CIRCULATION PATTERN
- UTILITY, E= ELECTRIC; G=GAS; W=WATER, SS=SANITARY SEWER
- TEMPORARY SIGNAGE

GENERAL PHASING NOTES:

DEFINITIONS & DATES

NOTE : Refer to the general conditions for a complete list of definitions and dates. If there are any discrepancies the general conditions document takes precedence.

Phase ESP (EARLY SITE PREP-NIC). . . .. Sept 2020-Nov 2020
Phase 1 . . . . Dec 2020-June 2021
Phase 2 . . . . . Summer 2021
Phase 3. . . . . .Sept 2021-June 2022
Phase 4. . . . . .. June & July 2022

The 2020/2021 & 2021/22 school year calendars are included in the project manual SECTION 013100 Project Procedures. Dates are subject to change for snow days.

(Phase 2 & Phase 4 correspond to School Summer Vacation)

1. CONTRACTOR USE AND ACCESS

a) The contractor shall confine construction activities within work limit areas and shall organize construction activities according to site phasing plans, and other contract requirements.

b) Limit of Work Area - access to work included in contract documents outside items a) above, if any, will be coordinated based upon review and approval of contractor's work plan by Owner's Representatives.

c) For those areas designated for school use, but available for construction during Summer 1 and Summer 2, Contractor shall secure areas and protect in a manner acceptable to Owner's Representatives. Protection shall include temporary fencing, gates for emergency vehicles, barriers, etc. and as required by contract documents.

2. AMESBURY PUBLIC SCHOOLS (APS) USE AND ACCESS

The APS shall have use and access of the existing building, new construction and site as indicated in the phasing plans.

3. TEMPORARY BARRICADES/PROTECTION

Furnish and install temporary barricades/protection, temporary fences, gates, and signage as shown on the drawings and specified in contract documents for the duration of construction.

a) Contractor shall include within base contract twenty (20) signs and mounting at 30" x 30". Text, location requirements to be determined by Owner's Representatives.

4. TEMPORARY RELOCATIONS/ CONNECTIONS - GENERAL

Remove and relocate existing utilities, drainage/sewer, and electrical power as required for construction of the new building and to allow for continued occupancy of the existing building.

Disconnection of utilities, drainage, sewage, etc. and reconnection for permanent systems shall conform to phasing schedules and contract documents.

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KEY PLAN

NORTH ARROW *STAMP*

Date: 15 MAY 2020

Drawn By: TM

Scale: 1"=60'-0"

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Phasing: Phase ESP (Early Site Prep)
N.I.C FOR INFORMATION ONLY

G.0.04

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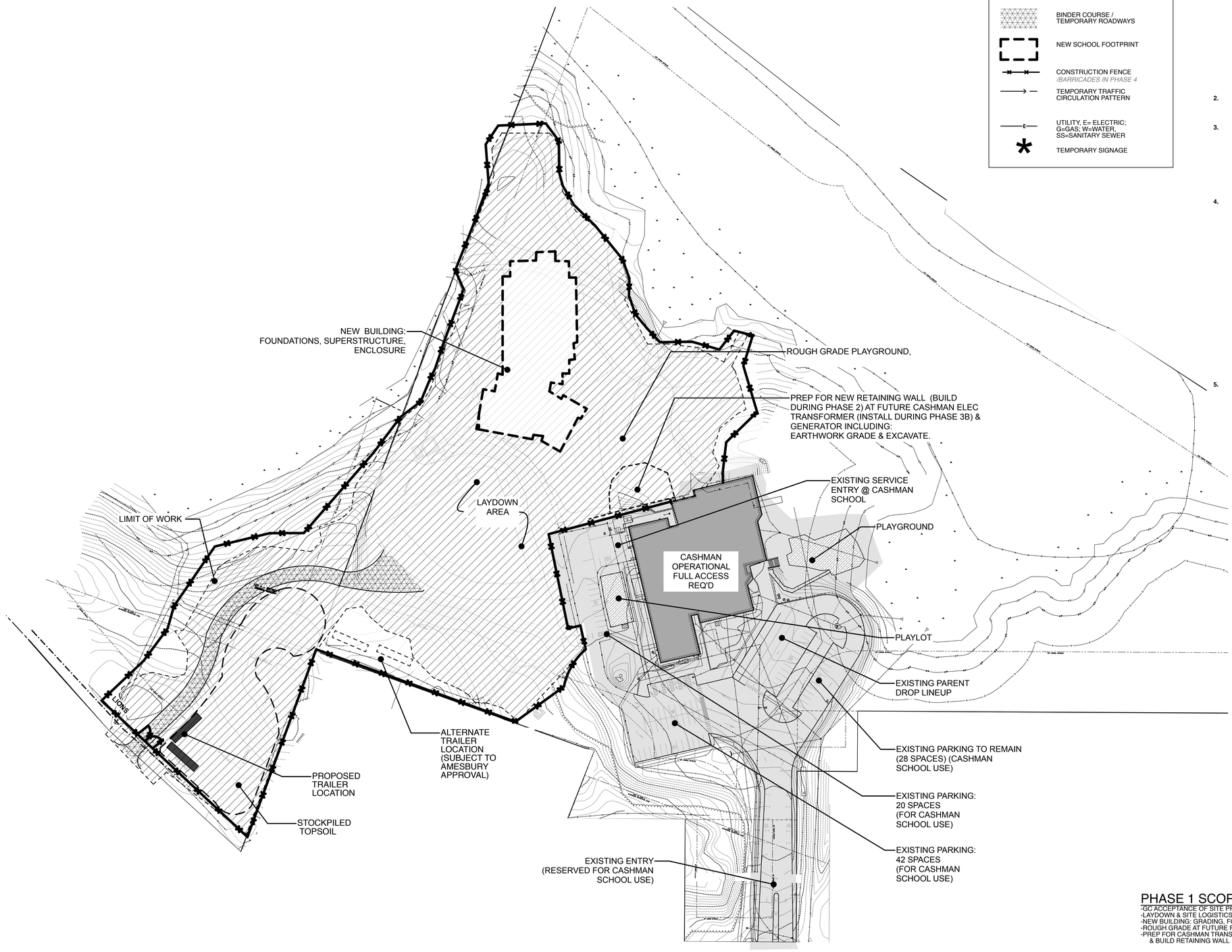

PHASING KEY

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PHASE 1 SCOPE: (GC)

-GC ACCEPTANCE OF SITE PREP, FENCES & EROSION CONTROL
-LAYDOWN & SITE LOGISTICS
-NEW BUILDING: GRADING, FOUNDATIONS / STEEL / ENCLOSURE
-ROUGH GRADE AT FUTURE PLAY AREA & PARKING
-PREP FOR CASHMAN TRANSFORMER & GENERATOR RELOCATION: -ROUGH GRADING & BUILD RETAINING WALL

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KEY PLAN

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Revisions

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Phasing: Phase 1

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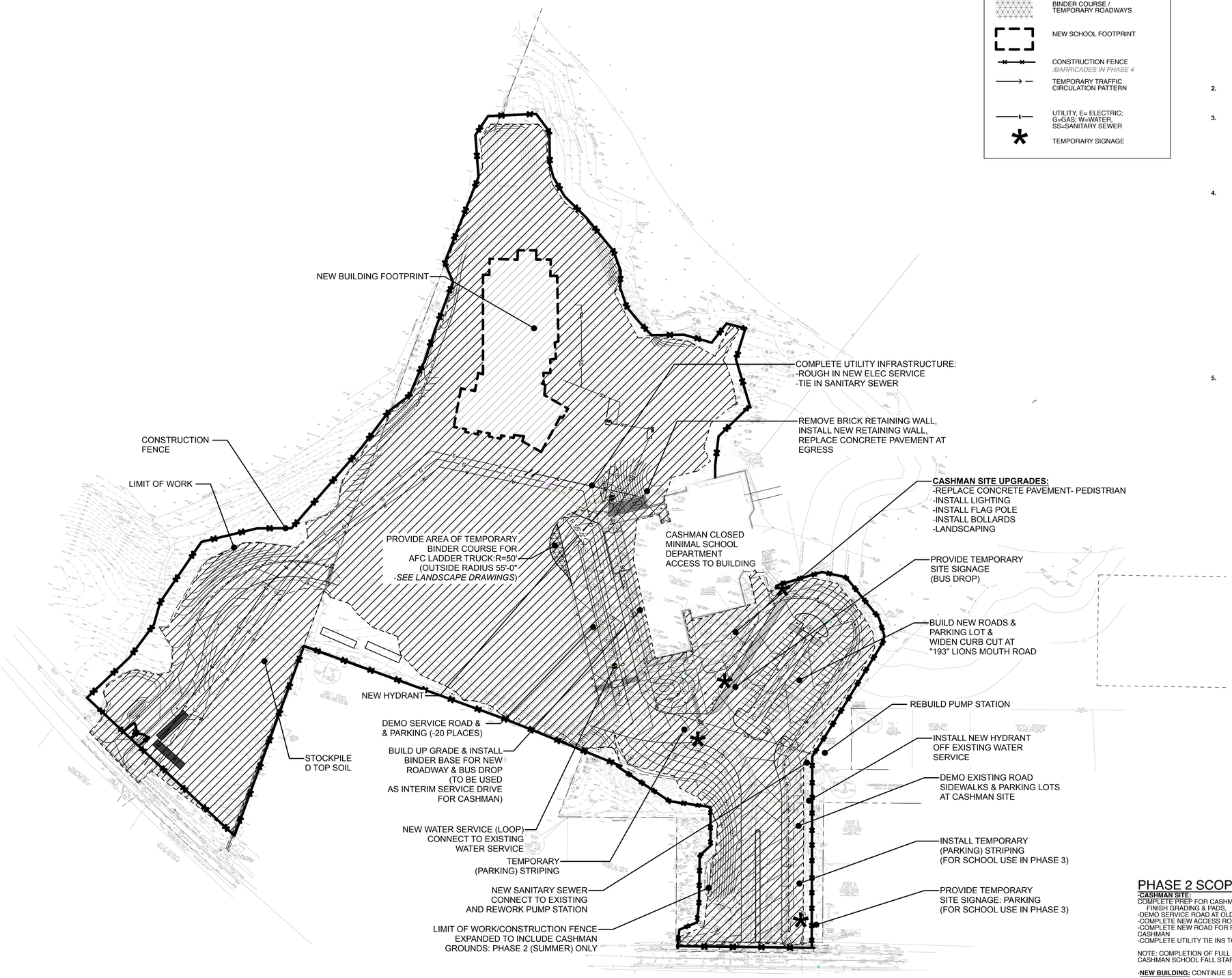

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PHASE 2 SCOPE:

-CASHMAN SITE:
COMPLETE PREP FOR CASHMAN TRANSFORMER & GENERATOR:
FINISH GRADING & PADS.
-DEMO SERVICE ROAD AT OLD CASHMAN & 20 PARKING SPACES.
-COMPLETE NEW ACCESS ROAD PARKING
-COMPLETE NEW ROAD FOR PARENT DROP OFF & SERVICE ACCESS AT CASHMAN
-COMPLETE UTILITY TIE INS TO EXISTING WATER, GAS & SANITARY SEWER

NOTE: COMPLETION OF FULL SCOPE UTILITIES & ROAD WORK BEFORE CASHMAN SCHOOL FALL START DATE

-**NEW BUILDING:** CONTINUE STRUCTURE & ENCLOSURE

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Phasing: Phase 2

G.0.06

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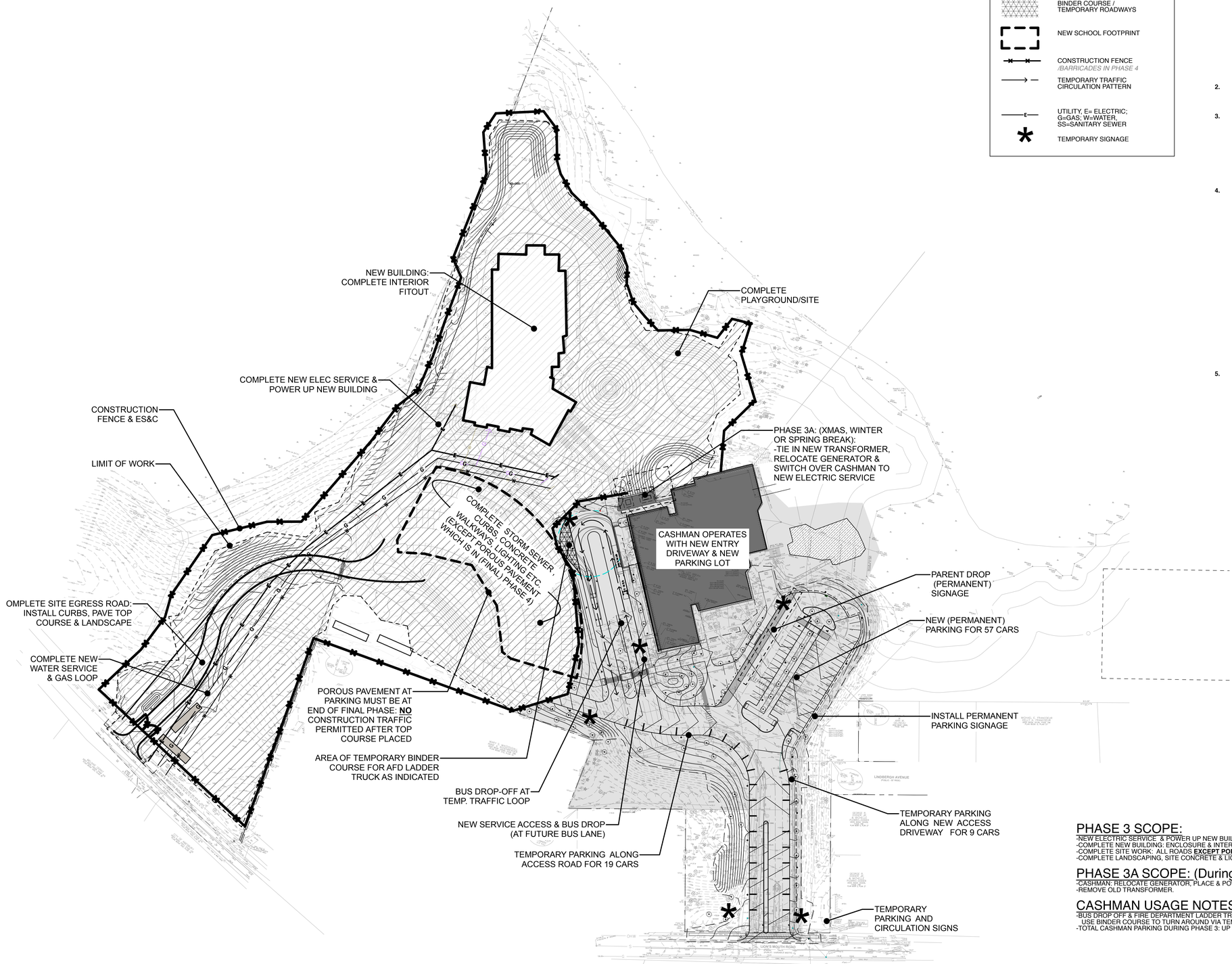

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PHASE 3 SCOPE:

-NEW ELECTRIC SERVICE & POWER UP NEW BUILDING
-COMPLETE NEW BUILDING: ENCLOSURE & INTERIOR FIT OUT
-COMPLETE SITE WORK: ALL ROADS **EXCEPT POROUS PAVING** AT NEW LOT AND
-COMPLETE LANDSCAPING, SITE CONCRETE & LIGHTING.

PHASE 3A SCOPE: (During School Break)

-CASHMAN: RELOCATE GENERATOR, PLACE & POWER UP NEW TRANSFORMER. ,
-REMOVE OLD TRANSFORMER.

CASHMAN USAGE NOTES:

-BUS DROP OFF & FIRE DEPARTMENT LADDER TRUCK & SERVICE AT CASHMAN TEMPORARILY USE BINDER COURSE TO TURN AROUND VIA TEMPORARY LOOP EXITING TO SE
-TOTAL CASHMAN PARKING DURING PHASE 3: UP TO 85 CARS

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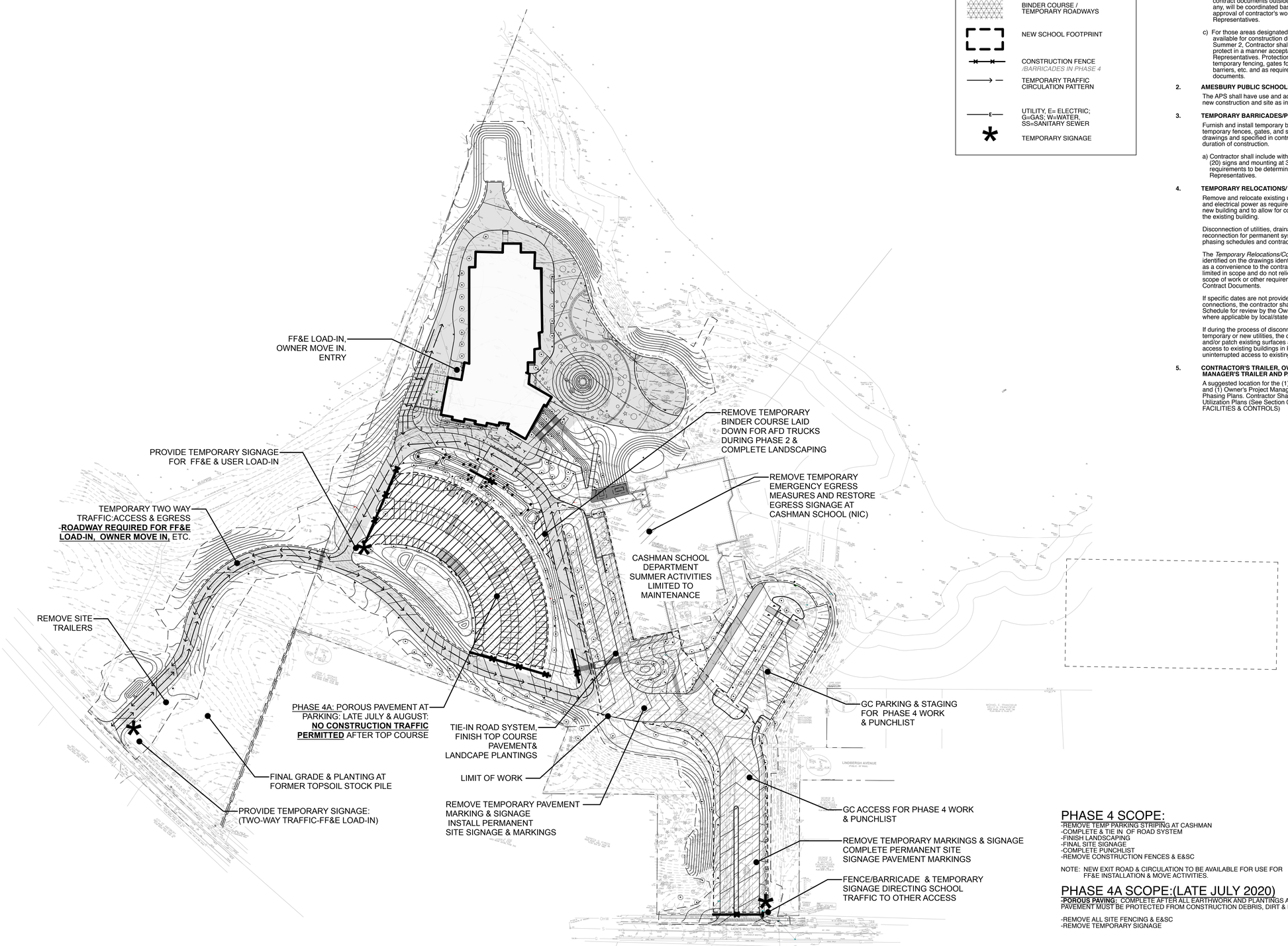

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PHASE 4 SCOPE:

-REMOVE TEMP PARKING STRIPING AT CASHMAN
-COMPLETE & TIE IN OF ROAD SYSTEM
-FINISH LANDSCAPING
-FINAL SITE SIGNAGE
-COMPLETE PUNCHLIST
-REMOVE CONSTRUCTION FENCES & E&SC

NOTE: NEW EXIT ROAD & CIRCULATION TO BE AVAILABLE FOR USE FOR FF&E INSTALLATION & MOVE ACTIVITIES.

PHASE 4A SCOPE:(LATE JULY 2020)

-POROUS PAVING: COMPLETE AFTER ALL EARTHWORK AND PLANTINGS ARE COMPLETE. POROUS PAVEMENT MUST BE PROTECTED FROM CONSTRUCTION DEBRIS, DIRT & DUST

-REMOVE ALL SITE FENCING & E&SC
-REMOVE TEMPORARY SIGNAGE

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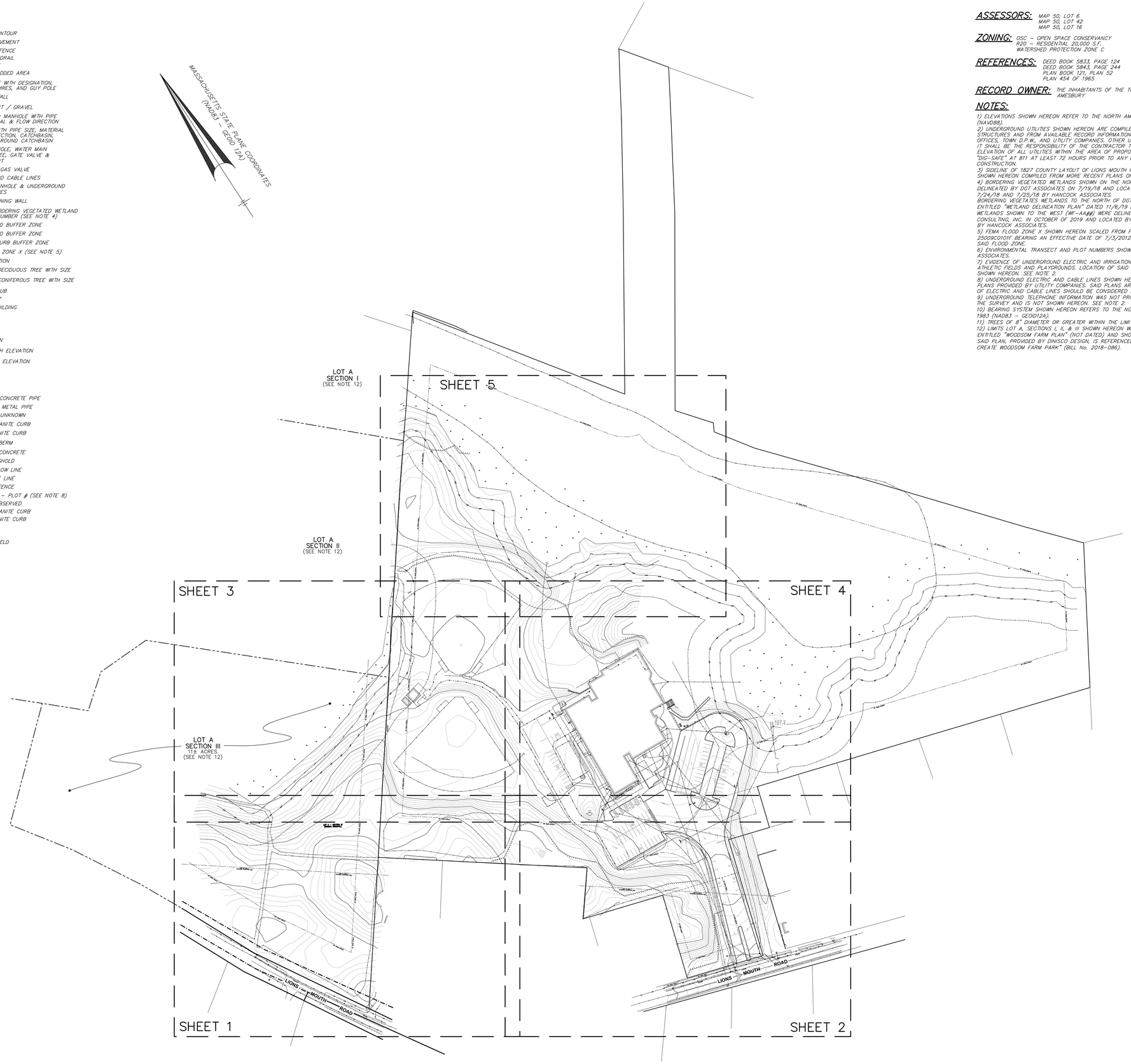
LEGEND

102	SURFACE CONTOUR
	EDGE OF PAVEMENT
	CHAIN LINK FENCE
	METAL GUARDRAIL
	WOOD FENCE
	EDGE OF WOODED AREA
UP#17 OHW	UTILITY POLE WITH DESIGNATION, OVERHEAD WIRES, AND GUY POLE
	RETAINING WALL
	EDGE OF DIRT / GRAVEL
8" S	SEWERLINE & MANHOLE WITH PIPE SIZE, MATERIAL & FLOW DIRECTION
12"RCP D	DRAINLINE WITH PIPE SIZE, MATERIAL & FLOW DIRECTION, CATCHBASIN, MANHOLE & ROUND CATCHBASIN
W 12"	WATER MANHOLE, WATER MAIN WITH SIZE, TEE, GATE VALVE & FIRE HYDRANT
GV G	GAS LINE & GAS VALVE
C	UNDERGROUND CABLE LINES
E	ELECTRIC MANHOLE & UNDERGROUND ELECTRIC LINES
	STONE RETAINING WALL
WFA2	LIMIT OF BORDERING VEGETATED WETLAND WITH FLAG NUMBER (SEE NOTE 4)
	100' WETLAND BUFFER ZONE
	50' NO-BUILD BUFFER ZONE
	25' NO-DISTURB BUFFER ZONE
	FEMA FLOOD ZONE X (SEE NOTE 5)
×100.7	SPOT ELEVATION
114.0 12"	PROMINENT DECIDUOUS TREE WITH SIZE
114.0 12"	PROMINENT CONIFEROUS TREE WITH SIZE
	TYPICAL SHRUB
DS	DOWN SPOUT
	LIGHT ON BUILDING
	LIGHT POLE
FD	FIRE ALARM
	SIGN
	2-POST SIGN
TP-03 114.0	TEST PIT WITH ELEVATION
GZA-2 120.1	BORING WITH ELEVATION
DH	DRILL HOLE
I.ROD	IRON ROD
COR.	CORNER
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
CU	CONNECTION UNKNOWN
VGC	VERTICAL GRANITE CURB
SGC	SLOPED GRANITE CURB
BB	BITUMINOUS BERM
BIT. CONC.	BITUMINOUS CONCRETE
MTL. THRESH	METAL THRESHOLD
D.Y.L	DOUBLE YELLOW LINE
S.W.L	SINGLE WHITE LINE
C.L.F	CHAIN LINK FENCE
T1-P1	TRANSECT # - PLOT # (SEE NOTE 8)
N.F.O.	NOT FIELD OBSERVED
VGC	VERTICAL GRANITE CURB
SGC	SLOPED GRANITE CURB
(R)	RECORD
(C)	CALCULATED
(R/H)	RECORD & HELD

MASSACHUSETTS STATE PLANE COORDINATES (NAD83 - GEOID 12A)



ASSESSORS: MAP 50, LOT 6
MAP 50, LOT 42
MAP 50, LOT 16

ZONING: OSC – OPEN SPACE CONSERVANCY
R20 – RESIDENTIAL 20,000 S.F.
WATERSHED PROTECTION ZONE C

REFERENCES: DEED BOOK 5833, PAGE 124
DEED BOOK 5843, PAGE 244
PLAN BOOK 121, PLAN 52
PLAN 454 OF 1965

RECORD OWNER: THE INHABITANTS OF THE TOWN OF AMESBURY

NOTES:

1) ELEVATIONS SHOWN HEREON REFER TO THE NORTH AMERICAN VERTICAL DATUM ON 1988 (NAVD88).
2) UNDERGROUND UTILITIES SHOWN HEREON ARE COMPILED FROM FIELD LOCATIONS OF STRUCTURES AND FROM AVAILABLE RECORD INFORMATION ON FILE AT THE TOWN ENGINEERING OFFICES, TOWN D.P.W., AND UTILITY COMPANIES. OTHER UNDERGROUND UTILITIES MAY EXIST. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION, SIZE & ELEVATION OF ALL UTILITIES WITHIN THE AREA OF PROPOSED WORK AND TO CONTACT "DIG-SAFE" AT 811 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION, DEMOLITION OR CONSTRUCTION.
3) SIDELINE OF 1827 COUNTY LAYOUT OF LIONS MOUTH ROAD IS INDETERMINABLE. SIDELINES SHOWN HEREON COMPILED FROM MORE RECENT PLANS OF RECORD.
4) BORDERING VEGETATED WETLANDS SHOWN ON THE NORTHEAST PORTION OF THE LOT WERE DELINEATED BY DGT ASSOCIATES ON 7/19/18 AND LOCATED BY INSTRUMENT SURVEY ON 7/24/18 AND 7/25/18 BY HANCOCK ASSOCIATES.
BORDERING VEGETATED WETLANDS TO THE NORTH OF DGT FLAGS WERE SCALED FROM A PLAN ENTITLED "WETLAND DELINEATION PLAN" DATED 11/6/19 BY GM2 ASSOCIATES. BORDERING WETLANDS SHOWN TO THE WEST (WF-AA##) WERE DELINEATED BY SEEKAMP ENVIRONMENTAL CONSULTING, INC. IN OCTOBER OF 2019 AND LOCATED BY INSTRUMENT SURVEY ON 11/18/19 BY HANCOCK ASSOCIATES.
5) FEMA FLOOD ZONE X SHOWN HEREON SCALED FROM FLOOD INSURANCE RATE MAP 25009C0101F BEARING AN EFFECTIVE DATE OF 7/3/2012. NO ELEVATION ASSOCIATED WITH SAID FLOOD ZONE.
6) ENVIRONMENTAL TRANSECT AND PLOT NUMBERS SHOWN HEREON PROVIDED BY DGT ASSOCIATES.
7) EVIDENCE OF UNDERGROUND ELECTRIC AND IRRIGATION LINES OBSERVED IN SURROUNDING ATHLETIC FIELDS AND PLAYGROUNDS. LOCATION OF SAID LINES ARE UNKNOWN AND NOT SHOWN HEREON. SEE NOTE 2.
8) UNDERGROUND ELECTRIC AND CABLE LINES SHOWN HEREON FROM MARKINGS ON SITE AND PLANS PROVIDED BY UTILITY COMPANIES. SAID PLANS ARE SCHEMATIC IN NATURE. LOCATION OF ELECTRIC AND CABLE LINES SHOULD BE CONSIDERED APPROXIMATE. SEE NOTE 2.
9) UNDERGROUND TELEPHONE INFORMATION WAS NOT PROVIDED BY VERIZON AT THE TIME OF THE SURVEY AND IS NOT SHOWN HEREON. SEE NOTE 2.
10) BEARING SYSTEM SHOWN HEREON REFERS TO THE NORTH AMERICAN AMERICAN DATUM OF 1983 (NAD83 - GEOID12A).
11) TREES OF 8" DIAMETER OR GREATER WITHIN THE LIMITS OF SURVEY ARE SHOWN HEREON.
12) LIMITS LOT A, SECTIONS I, II, & III SHOWN HEREON WERE SCALED FROM PLAN SKETCH ENTITLED "WOODSOM FARM PLAN" (NOT DATED) AND SHOULD BE CONSIDERED APPROXIMATE. SAID PLAN, PROVIDED BY DINISCO DESIGN, IS REFERENCED IN CITY OF AMESBURY "ORDER TO CREATE WOODSOM FARM PARK" (BILL No. 2018-086).

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KEY PLAN

N

NORTH ARROW | STAMP

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Drawn By: EME

Scale: 0 80 160

Revisions

Number	Date	Description

60% COST ESTIMATE SET

EXISTING CONDITIONS KEY PLAN

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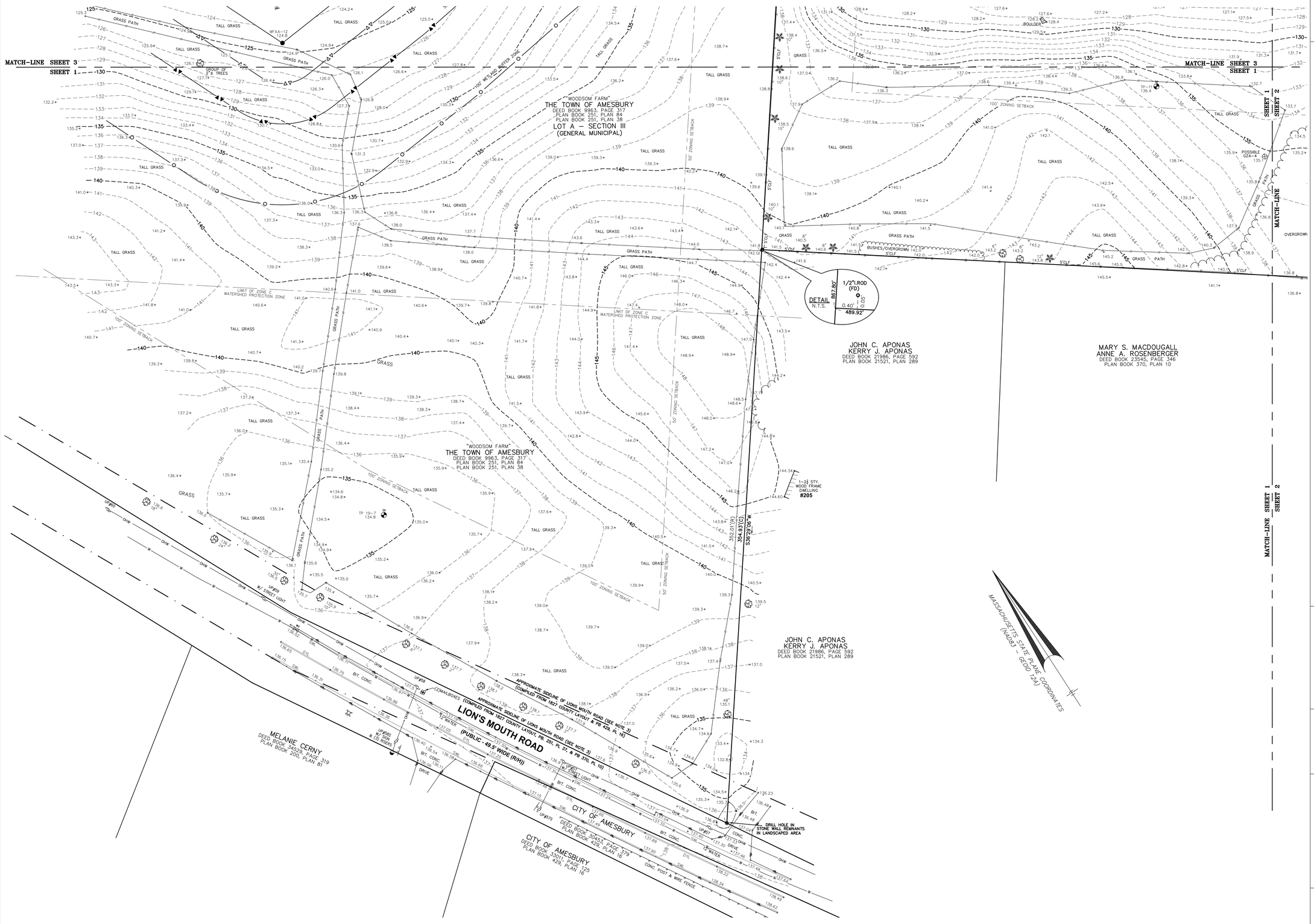

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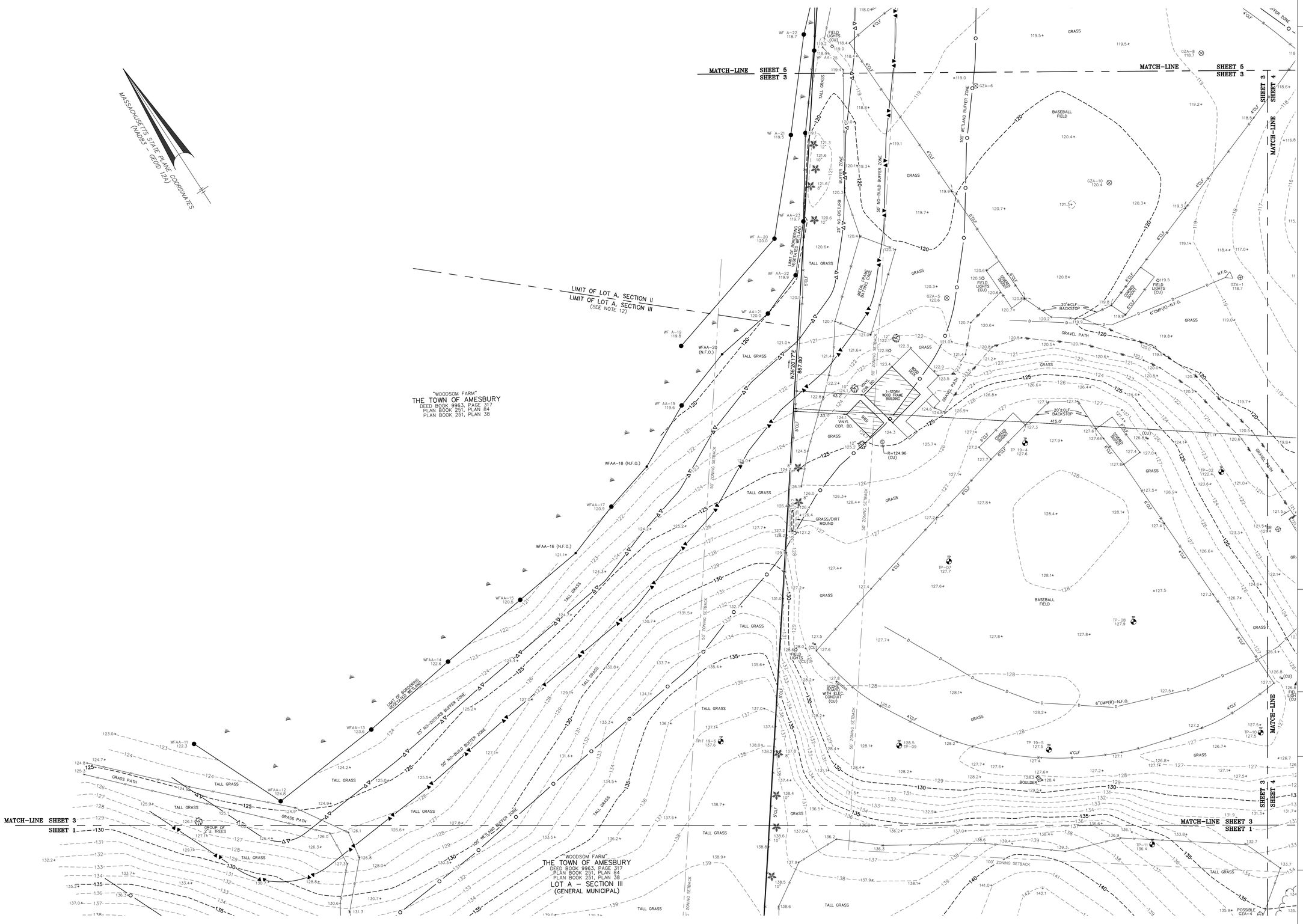

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MASSACHUSETTS STATE PLANE COORDINATES (NAD83 - GEOID 12A)

CHARLES C. CASHMAN ELEMENTARY SCHOOL
EXISTING
TWO STORY BRICK
BUILDING

TOTAL LOT AREA=
1,564,824± S.F.
35.9234± ACRES (C)
35.9235± ACRES (R)

KEY PLAN

N

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Revisions

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60% COST ESTIMATE SET

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MASSACHUSETTS STATE PLANE COORDINATES (NAD83 / NAVD88 GEOID 12A)

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PARTIAL PLAN 02

PARTIAL PLAN 01

INSET PLAN 02

PARTIAL PLAN 03

REFER TO INSET PLAN 02

1
1.0.00
OVERALL SITE PLAN
SCALE: 1" - 50'-0"

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KEY PLAN

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60% COST ESTIMATE SET

Overall Site Plan

1.0.00

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1 / 1.0.01 SITE DEMO PLAN
SCALE: 1" - 30'-0"

SITE DEMOLITION LEGEND

- (X) REMOVE OFFSITE
- (R) RELOCATE OFFSITE
- (Re) RECLAIM ON SITE
- (M) RELOCATE ONSITE
- (P) PROTECT
- TREE TO REMAIN
- TREE TO BE REMOVED
- ITEM TO BE REMOVED
- EXISTING BITUMINOUS CONCRETE PAVEMENT AREAS TO BE DEMOLISHED
- EXISTING CONCRETE PAVEMENT AREAS TO BE DEMOLISHED
- LIMIT OF WORK
- TREE PROTECTION FENCING
- CURBING TO BE REMOVED
- FENCING TO BE REMOVED

SITE DEMOLITION NOTES

1. REFER TO SPECIFICATION SECTIONS:
   024100 DEMOLITION - FOR FURTHER INFORMATION ON GENERAL DEMOLITION.
   311000 SITE PREPARATION - FOR FURTHER INFORMATION ON DEMOLITION AND SITE PREPARATION.
   311320 EXISTING PLANTS TO REMAIN - FOR FURTHER INFORMATION ON TREE PROTECTION FENCING AND MAINTENANCE.
   312000 EARTHWORK - FOR FURTHER INFORMATION ON SUBGRADE PREPARATION ON AREAS DISTURBED BY DEMOLITION.
   312500 EROSION AND SEDIMENTATION CONTROL.
2. THE EXISTING CONDITIONS PLAN SHOWN ARE AS SURVEYED BY: HANCOCK ASSOCIATES, 185 CENTRE STREET DANVERS, MA 01923, DATED 12 / 17 / 2019.
3. THE WORK DESCRIBED ON THIS PLAN IS THE GENERAL INTENT. THE CONTRACTOR SHALL INCLUDE IN THEIR BID ALL DEMOLITION WORK NECESSARY FOR THE PROPOSED IMPROVEMENTS.
4. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE TO FAMILIARIZE HIMSELF WITH THE FULL SCOPE OF THE DEMOLITION REQUIRED FOR THE EXECUTION OF THE PROJECT CONTRACT AND SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD, REPORT ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS PLAN, AND THE ACTUAL SITE CONDITIONS, TO THE ARCHITECT, PRIOR TO BEGINNING WORK.
5. THIS PLAN INDICATES THE DEMOLITION OF FEATURES ON THE SURFACE OF THE SITE, INCLUDING FOOTING, FOUNDATION AND SUB-BASE MATERIALS.
6. RESERVED FOR FUTURE USE.
7. REFER TO SITE UTILITIES PLAN, STORM WATER DRAINAGE PLAN, ELECTRICAL SITE PLAN, AND SITE LIGHTING PLAN FOR FURTHER INFORMATION ON ANY DEMOLITION OR MODIFICATIONS TO EXISTING UNDERGROUND OR OVERHEAD UTILITIES.
8. IN GENERAL - ALL EXISTING MATERIALS WITHIN THE CONSTRUCTION AREA / WORK LIMIT, AND WHERE NEW MATERIALS ARE SHOWN ON THE CONSTRUCTION DRAWINGS ARE TO BE REMOVED AND DISPOSED OF LEGALLY OFFSITE. EXISTING ITEMS TO BE DEMOLISHED INCLUDE, THOUGH ARE NOT ARE NOT LIMITED TO: CURBING, BITUMINOUS CONCRETE VEHICULAR PAVEMENT, CONCRETE PAVEMENT, BITUMINOUS CONCRETE PEDESTRIAN PAVEMENT, SUB-BASES, FOOTINGS, BENCHES, TRASH RECEPTACLES, SITE AND TRAFFIC SIGNAGE, VEGETATION.
9. ALL TREES, SHRUBS, GROUNDCOVER, STUMPS AND OVERBURDEN SHALL BE REMOVED IN THE EXECUTION OF THE PROPOSED SITE IMPROVEMENTS. REFER TO THE SPECIAL PROJECT CONDITIONS SPECIFICATION AND WORK REQUIRED HEREIN.
10. AREAS FENCED OFF WITH TREE PROTECTION FENCE SHALL BE CONSIDERED TREE PROTECTION AREAS. THE PURPOSE OF THIS IS TO PREVENT DAMAGE TO EXISTING TREES, ROOT SYSTEM AND PREVENT COMPACTION OF EXISTING LAWN AREAS. EXISTING LAWNS SHALL BE REMOVED.
11. EXISTING PAVEMENT AREAS TO BE DEMOLISHED INCLUDE THOUGH ARE NOT LIMITED TO BITUMINOUS CONCRETE PAVEMENT, CONCRETE PAVEMENT, SUB BASE, CURBING, TRAFFIC SIGNS, AND OTHER ITEMS NOTED.
12. COORDINATE THE INSTALLATION OF ALL NEW TEMPORARY FENCING REQUIRED TO SECURE THE SITE AS REQUIRED DURING THE EXECUTION OF THE PROJECT CONTRACT.
13. COORDINATE SITE DEMOLITION WITH EROSION CONTROL AND STORM DRAINAGE REQUIREMENTS FOR THE DURATION OF THE PROJECT.
14. THE CONSTRUCTION MANAGER SHALL COORDINATE THE SEQUENCE OF DEMOLITION AND ALL SITE IMPROVEMENTS TO PROVIDE UNINTERRUPTED ACCESS FOR THE ABUTTING PROPERTIES FOR THE DURATION OF THE PROJECT.
15. REMOVE FENCE SYSTEM AS NECESSARY TO REMOVE EXISTING TREES. PROVIDE TEMPORARY FENCING AS NECESSARY. REINSTALL FENCING SYSTEM IN THE SAME LOCATION AND MANNER AS ORIGINALLY INSTALLED.
16. FOR ALL TREES TO BE REMOVED, AND OR EXISTING STUMPS ON THE SITE - ALL STUMPS SHALL BE GROUND DOWN TO 18" MIN. BELOW FINISH GRADE.
17. (M) ITEMS TO BE STORED, PROTECTED AND RELOCATED ON SITE - BY THE CONTRACTOR PER OWNER / ARCHITECTS DIRECTIONS.
18. ALL EXISTING IRRIGATION LINES, SPRAY HEADS, AND ASSOCIATED EQUIPMENT TO BE REMOVED IN ITS ENTIRETY.
19. ALUMINUM FENCING AND ALUMINUM POSTS - REMOVE AND TRANSPORT TO A LOCATION IN THE CITY OF SPRINGFIELD - LOCATION TO BE DETERMINED. INCLUDES SLIDING GATE AND EQUIPMENT TO THE NORTH OF THE SITE.
20. REMOVE VEGETATION IN FRONT OF AND / OR GROWING THROUGH EXISTING CHAIN LINK FENCE ALONG THE RAILROAD PROPERTY. NOTE EXISTING FENCE SHALL REMAIN IN PLACE UNTIL NEW GRADING AND PERMANENT FENCING IS TO BE INSTALLED.

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KEY PLAN

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NORTH ARROW | STAMP

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Scale: 0 30 60

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Site Demo Plan

1.0.01

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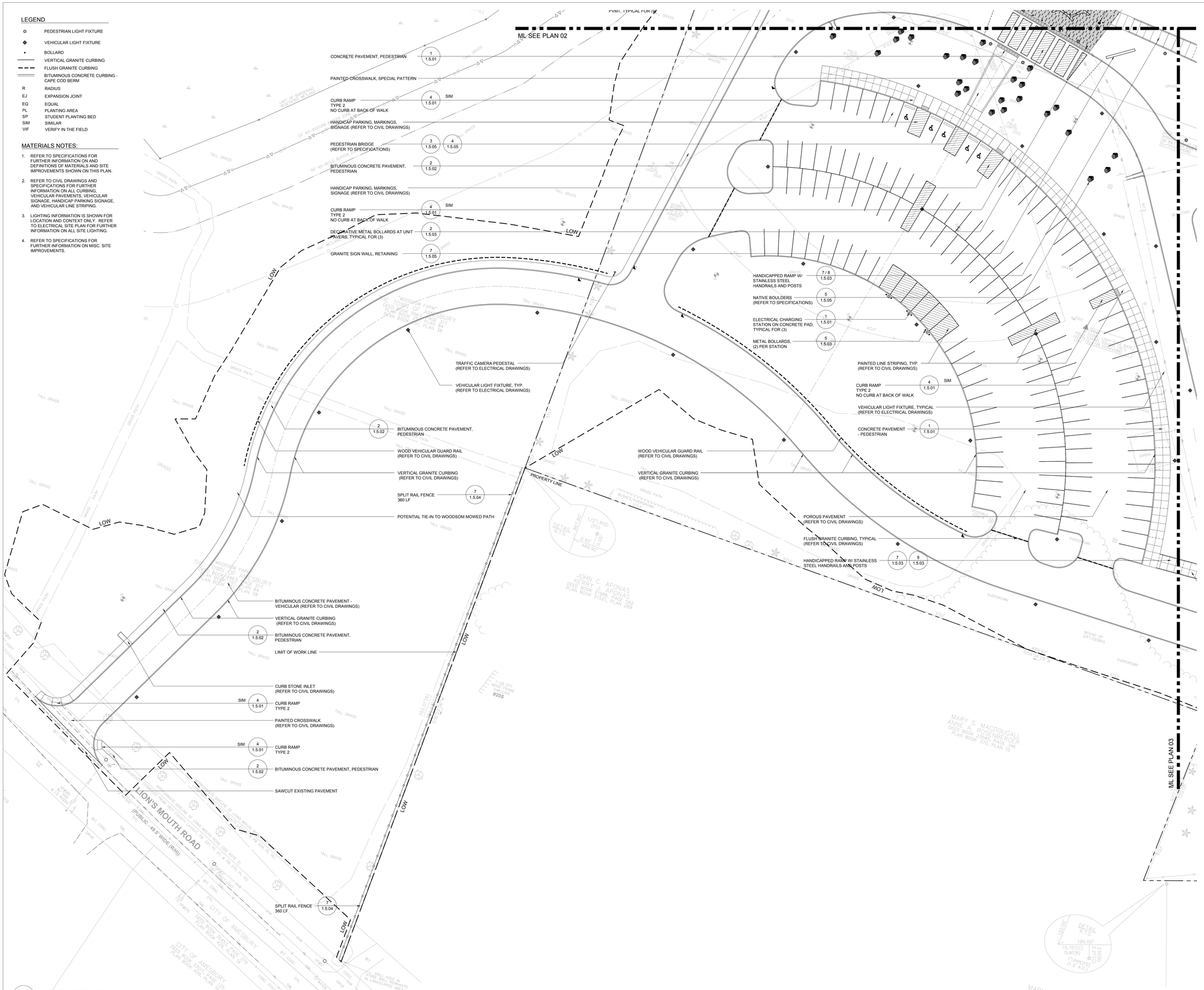
LEGEND

- PEDESTRIAN LIGHT FIXTURE
- VEHICULAR LIGHT FIXTURE
- BOLLARD
- VERTICAL GRANITE CURBING
- FLUSH GRANITE CURBING
- BITUMINOUS CONCRETE CURBING - CAPE COD BERM
- R — RADIUS
- EJ — EXPANSION JOINT
- EQ — EQUAL
- PL — PLANTING AREA
- SP — STUDENT PLANTING BED
- SIM — SIMILAR
- VIF — VERIFY IN THE FIELD

MATERIALS NOTES:

1. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION ON AND DEFINITIONS OF MATERIALS AND SITE IMPROVEMENTS SHOWN ON THIS PLAN.
2. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR FURTHER INFORMATION ON ALL CURBING, VEHICULAR PAVEMENTS, VEHICULAR SIGNAGE, HANDICAP PARKING SIGNAGE, AND VEHICULAR LINE STRIPING.
3. LIGHTING INFORMATION IS SHOWN FOR LOCATION AND CONTEXT ONLY. REFER TO ELECTRICAL SITE PLAN FOR FURTHER INFORMATION ON ALL SITE LIGHTING.
4. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION ON MISC. SITE IMPROVEMENTS.



1 / 1.1.01 PARTIAL MATERIALS PLAN - 01
SCALE: 1" - 20'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020
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Scale: 0 20 40

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Partial Materials Plan - 01

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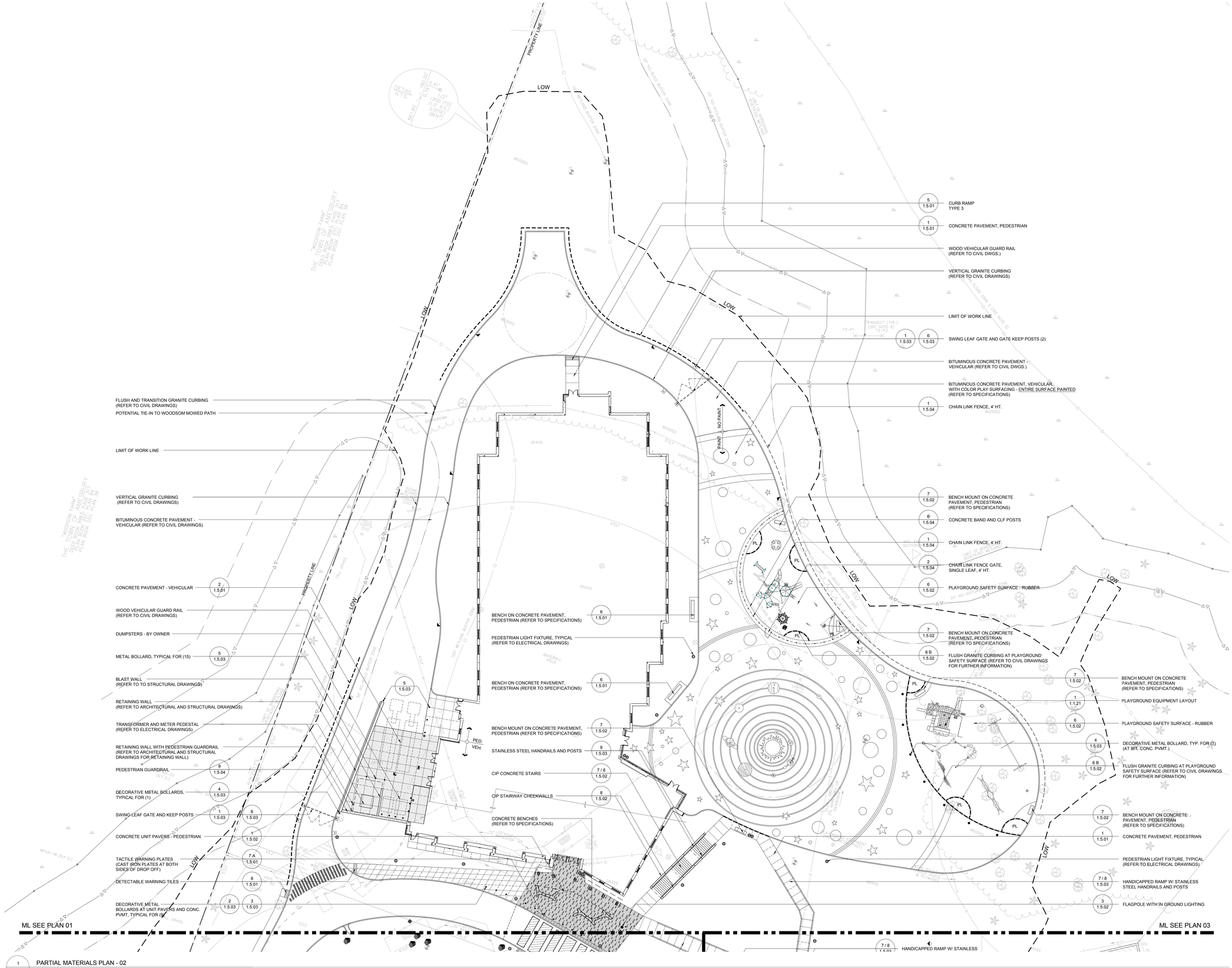
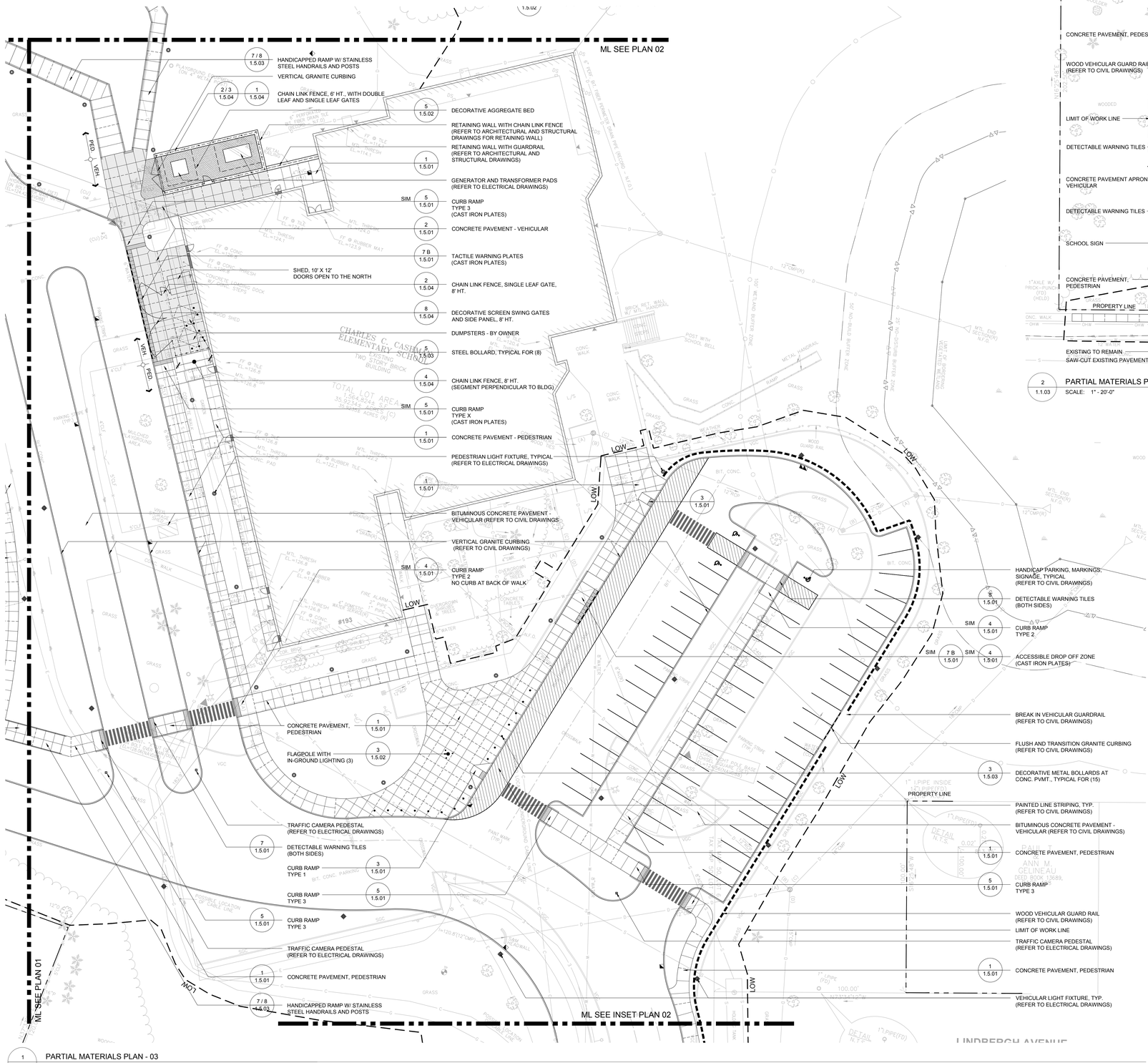
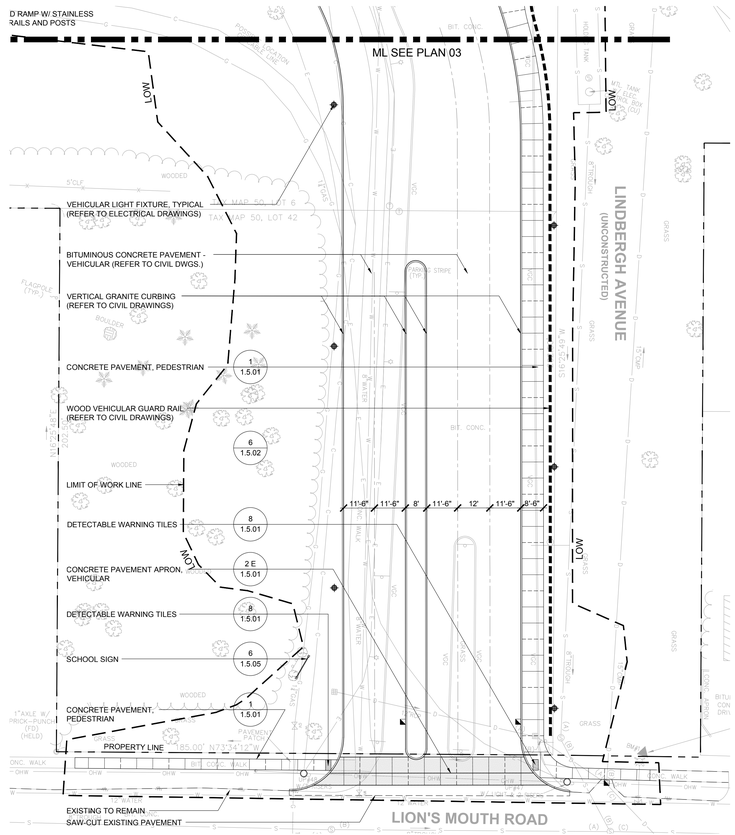




1 1.1.03 PARTIAL MATERIALS PLAN - 03
SCALE: 1" - 20'-0"



2 1.1.03 PARTIAL MATERIALS PLAN - INSET PLAN 02
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Partial Materials Plan - 03

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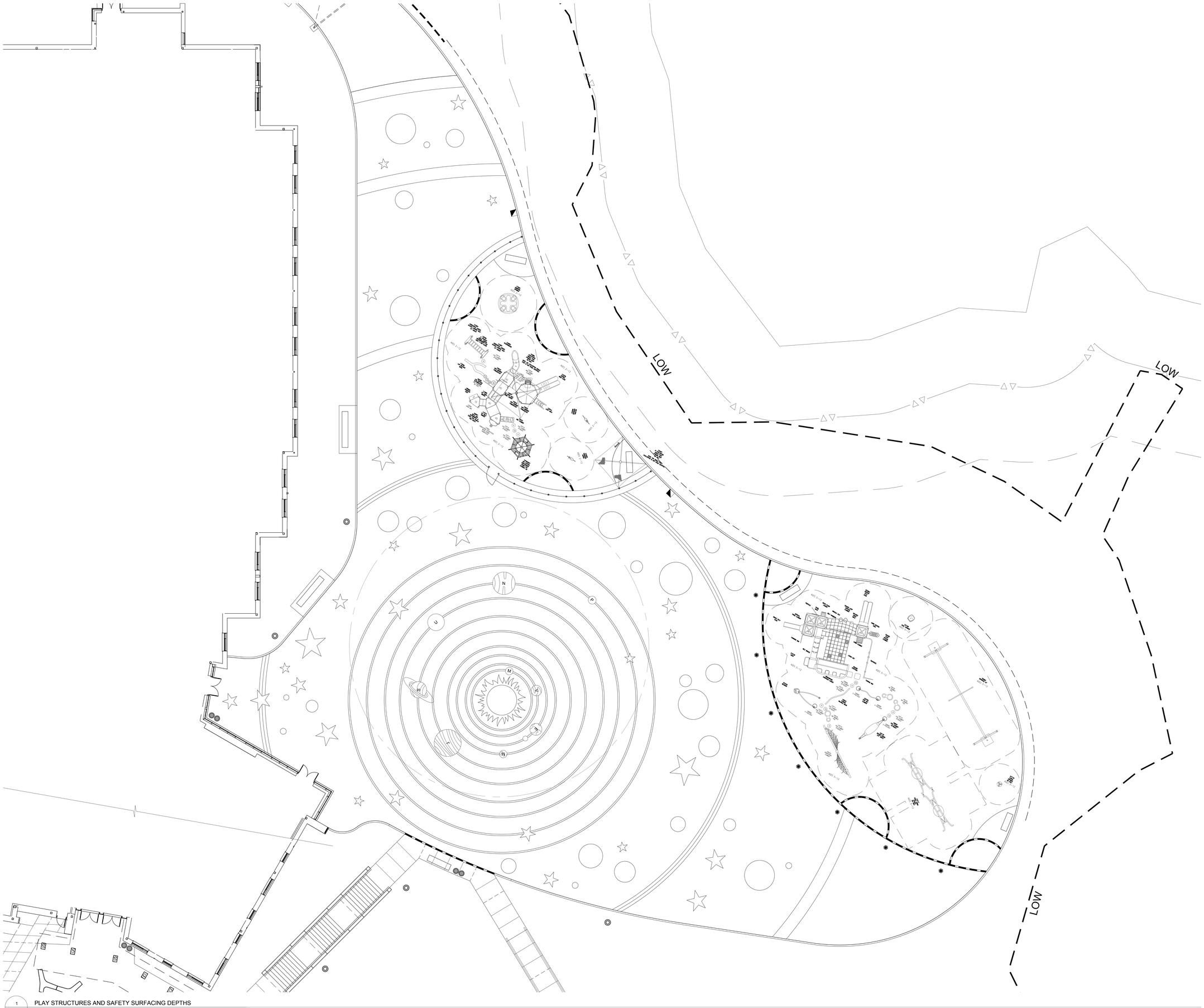

1 / 1.1.21 PLAY STRUCTURES AND SAFETY SURFACING DEPTHS
SCALE: 1" - 10'-0"

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Play Structures and Safety Surfacing Depths

1.1.21

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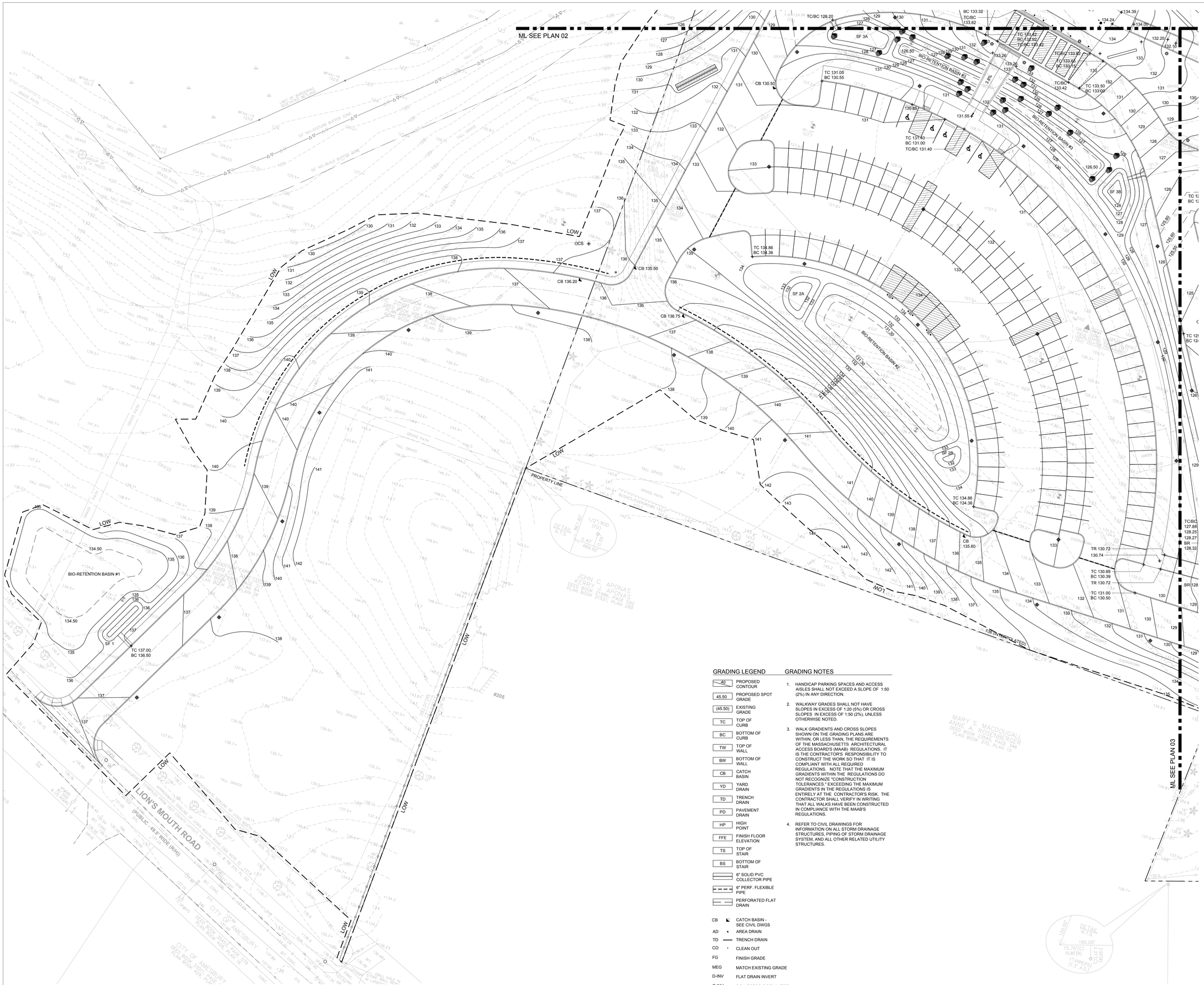

GRADING LEGEND

40	PROPOSED CONTOUR
45.50	PROPOSED SPOT GRADE
(45.50)	EXISTING GRADE
TC	TOP OF CURB
BC	BOTTOM OF CURB
TW	TOP OF WALL
BW	BOTTOM OF WALL
CB	CATCH BASIN
YD	YARD DRAIN
TD	TRENCH DRAIN
PD	PAVEMENT DRAIN
HP	HIGH POINT
FFE	FINISH FLOOR ELEVATION
TS	TOP OF STAIR
BS	BOTTOM OF STAIR
	6" SOLID PVC COLLECTOR PIPE
	6" PERF. FLEXIBLE PIPE
	PERFORATED FLAT DRAIN

CB	◪	CATCH BASIN - SEE CIVIL DWGS
AD	◦	AREA DRAIN
TD	—	TRENCH DRAIN
CO	•	CLEAN OUT
FG		FINISH GRADE
MEG		MATCH EXISTING GRADE
D-INV		FLAT DRAIN INVERT
C-INV		COLLECTOR PIPE INVERT

GRADING NOTES

1. HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1:50 (2%) IN ANY DIRECTION.
2. WALKWAY GRADES SHALL NOT HAVE SLOPES IN EXCESS OF 1:20 (5%) OR CROSS SLOPES IN EXCESS OF 1:50 (2%), UNLESS OTHERWISE NOTED.
3. WALK GRADIENTS AND CROSS SLOPES SHOWN ON THE GRADING PLANS ARE WITHIN, OR LESS THAN, THE REQUIREMENTS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD'S (MAAB) REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE WORK SO THAT IT IS COMPLIANT WITH ALL REQUIRED REGULATIONS. NOTE THAT THE MAXIMUM GRADIENTS WITHIN THE REGULATIONS DO NOT RECOGNIZE "CONSTRUCTION TOLERANCES." EXCEEDING THE MAXIMUM GRADIENTS IN THE REGULATIONS IS ENTIRELY AT THE CONTRACTOR'S RISK. THE CONTRACTOR SHALL VERIFY IN WRITING THAT ALL WALKS HAVE BEEN CONSTRUCTED IN COMPLIANCE WITH THE MAAB'S REGULATIONS.
4. REFER TO CIVIL DRAWINGS FOR INFORMATION ON ALL STORM DRAINAGE STRUCTURES, PIPING OF STORM DRAINAGE SYSTEM, AND ALL OTHER RELATED UTILITY STRUCTURES.

1 / 1.2.01 PARTIAL GRADING PLAN - 01
SCALE: 1" - 20'-0"

KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020
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60% COST ESTIMATE SET

Partial Grading Plan - 01

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Number	Date	Description

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Partial Grading Plan - 02

1.2.02

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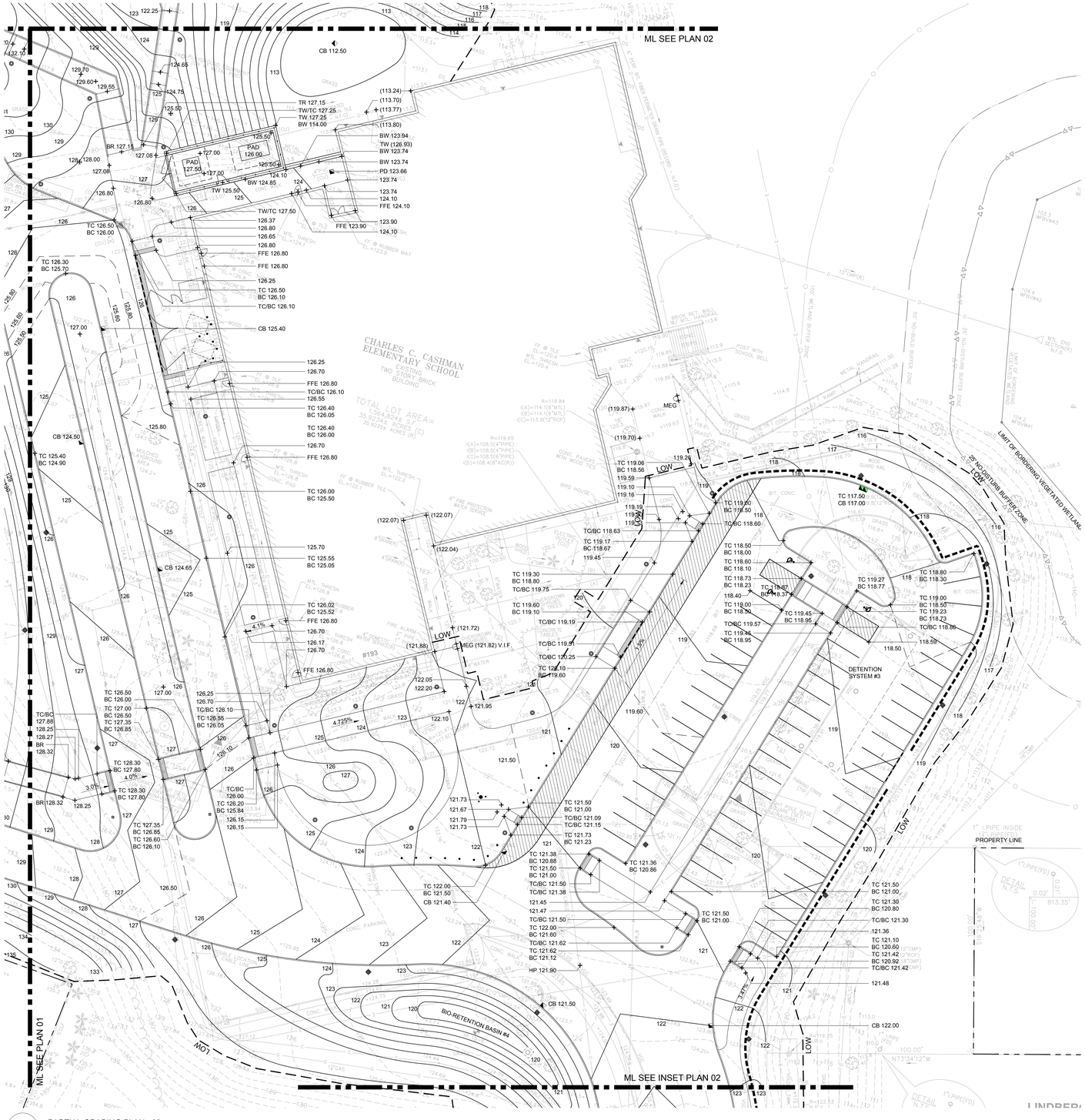
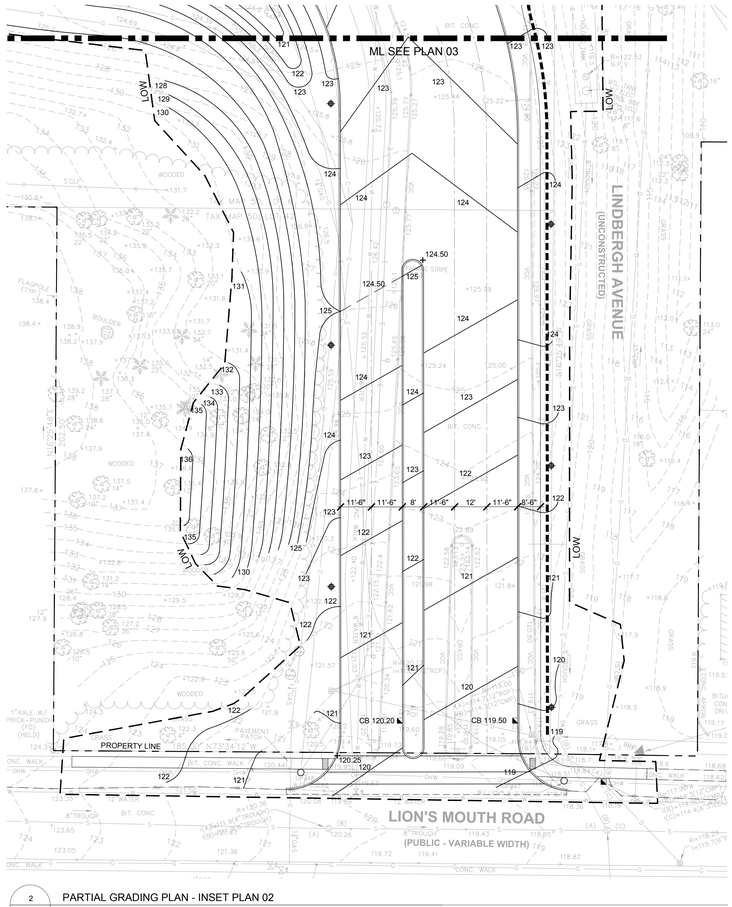
1 / 1.2.02 PARTIAL GRADING PLAN - 02
SCALE: 1" - 20'-0"

ML SEE PLAN 01

ML SEE PLAN 03



1 1.2.03 PARTIAL GRADING PLAN - 03
SCALE: 1" - 20'-0"



2 1.2.03 PARTIAL GRADING PLAN - INSET PLAN 02
SCALE: 1" - 20'-0"

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Number	Date	Description

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Partial Grading Plan - 03

1.2.03

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MATCHLINE
SEE SHEET 1.3.02

MASSACHUSETTS STATE PLANE COORDINATES (NAD83 - GEOID 12A)

LIMIT OF BORDERING VEGETATED WETLAND

25' NO-DISTURB BUFFER ZONE

50' NO-BUILD BUFFER ZONE

100' WETLAND BUFFER ZONE

POROUS PAVEMENT SIGNS (QTY: 4)
"POROUS PAVEMENT - NO SANDING ZONE"

WOOD GUARDRAIL

BITUMINOUS CONCRETE PAVEMENT (VEHICULAR)

VGC

24'

BIO-RETENTION BASIN #1

SEDIMENT FOREBAY #1

CURB STONE INLET

W=20'

SAWCUT PAVEMENT

20'-6"

LION'S MOUTH ROAD

DETAIL N.T.S.

1/2"I.ROD (FD)

0.40'

0.05'

S67.80'

489.92'

352.01'(R)

384.94'(C)

S36°29'06"W

#205

DRILL HOLE IN STONE WALL REMNANTS IN LANDSCAPED AREA

BIO-RETENTION BASIN #2

SEDIMENT FOREBAY #2A

SEDIMENT FOREBAY #2B

ELECTRIC VEHICLE PARKING CHARGING STATIONS

POROUS ASPHALT CELL DIVIDER

POROUS ASPHALT OBSERVATION WELL (QTY: 6)

PROPOSED POROUS ASPHALT PARKING LOT

35 SPACES

18' TYP

8' TYP

SEDIMENT FOREBAY #3A

BIO-RETENTION BASIN #3

SEE LANDSCAPE PLANS FOR MATERIALS IN THIS AREA

ACCESSIBLE PARKING SIGNS

PROPOSED PAVED DRAIN CHUTE

SEDIMENT FOREBAY #3B

POROUS ASPHALT OBSERVATION WELL (QTY: 6)

WOOD GUARDRAIL

489.92'
N54°06'29"W

POROUS PAVEMENT SIGNS (QTY: 4)
"POROUS PAVEMENT - NO SANDING ZONE"

MATCHLINE
SEE SHEET 1.3.03

SEE SHEET 1.3.03 FOR NOTES AND LEGEND

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KEY PLAN

NORTH ARROW — STAMP

Date: 15 MAY 2020

Drawn By: KMR

Scale: 0 20 40

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Vehicular Pavement Layout and Materials Plan - 01

1.3.01

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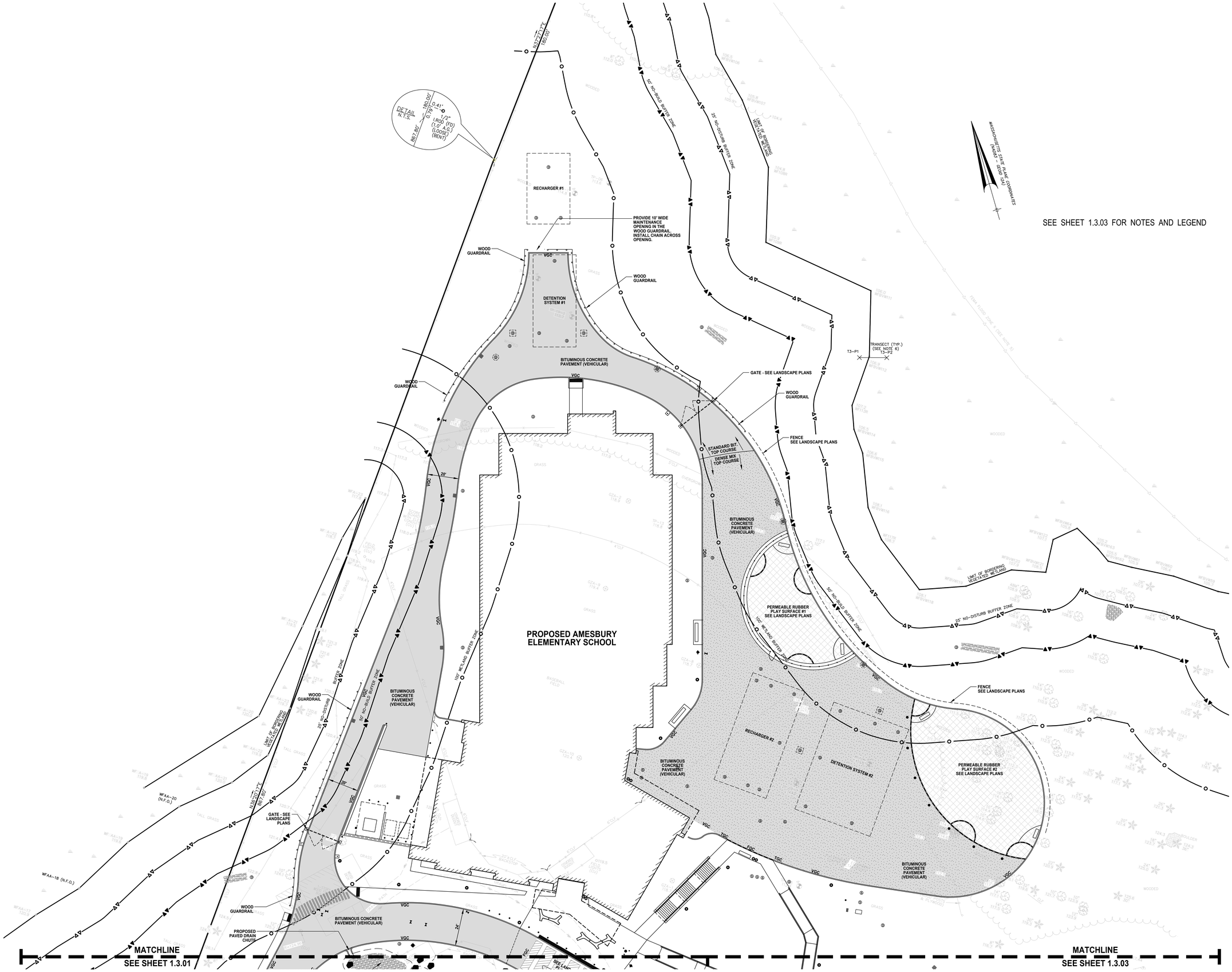

SEE SHEET 1.3.03 FOR NOTES AND LEGEND

KEY PLAN

NORTH ARROW — STAMP

Date: 15 MAY 2020

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Scale: 0 20 40

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Number	Date	Description

60% COST ESTIMATE SET

Vehicular Pavement Layout and Materials Plan - 02

1.3.02

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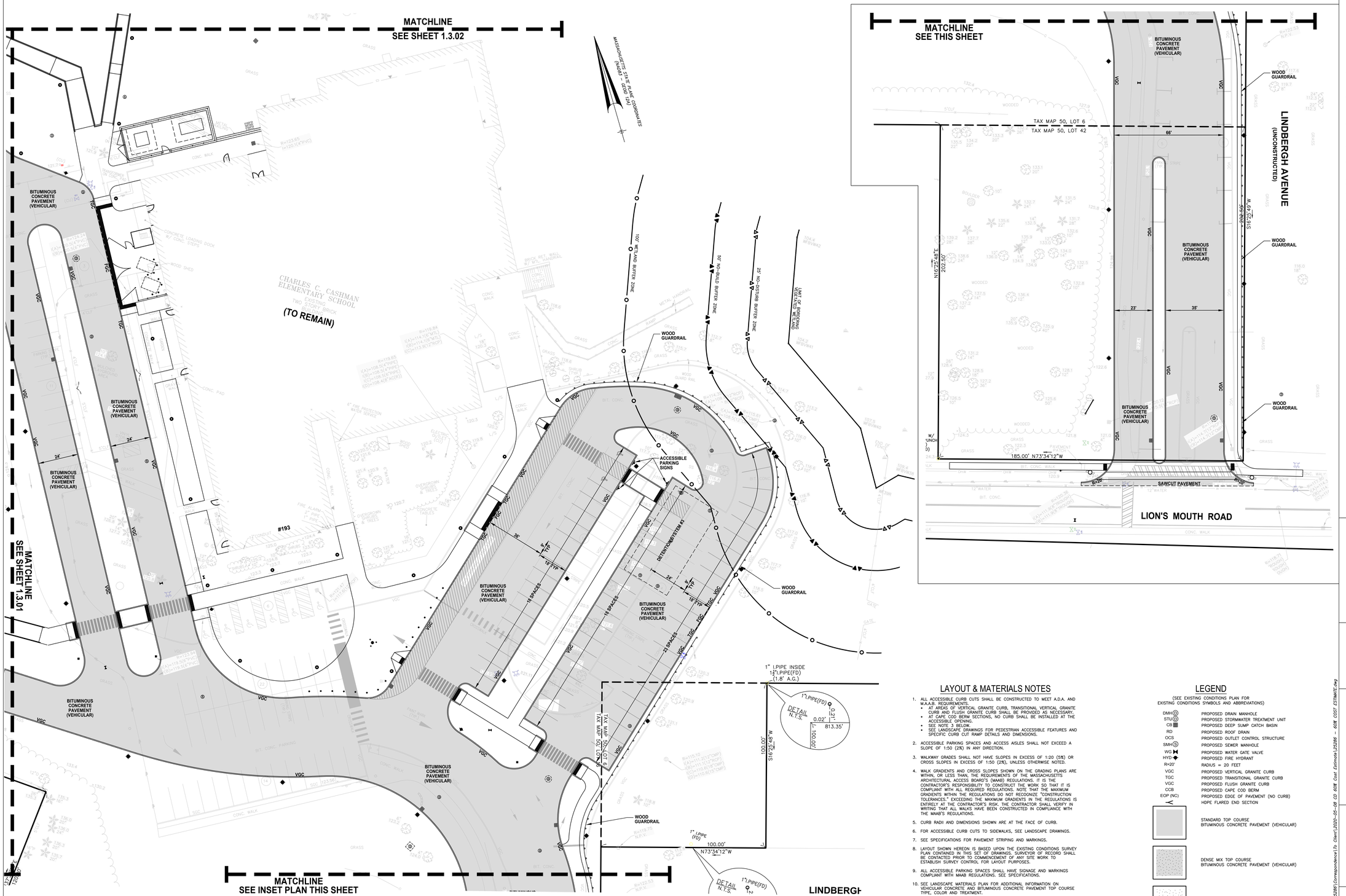

LAYOUT & MATERIALS NOTES

1. ALL ACCESSIBLE CURB CUTS SHALL BE CONSTRUCTED TO MEET A.D.A. AND M.A.A.B. REQUIREMENTS.
   - AT AREAS OF VERTICAL GRANITE CURB, TRANSITIONAL VERTICAL GRANITE CURB AND FLUSH GRANITE CURB SHALL BE PROVIDED AS NECESSARY.
   - AT CAPE COD BERM SECTIONS, NO CURB SHALL BE INSTALLED AT THE ACCESSIBLE OPENING.
   - SEE NOTE 3 BELOW.
   - SEE LANDSCAPE DRAWINGS FOR PEDESTRIAN ACCESSIBLE FEATURES AND SPECIFIC CURB CUT RAMP DETAILS AND DIMENSIONS.
2. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1:50 (2%) IN ANY DIRECTION.
3. WALKWAY GRADES SHALL NOT HAVE SLOPES IN EXCESS OF 1:20 (5%) OR CROSS SLOPES IN EXCESS OF 1:50 (2%), UNLESS OTHERWISE NOTED.
4. WALK GRADIENTS AND CROSS SLOPES SHOWN ON THE GRADING PLANS ARE WITHIN, OR LESS THAN, THE REQUIREMENTS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD'S (MAAB) REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE WORK SO THAT IT IS COMPLIANT WITH ALL REQUIRED REGULATIONS. NOTE THAT THE MAXIMUM GRADIENTS WITHIN THE REGULATIONS DO NOT RECOGNIZE "CONSTRUCTION TOLERANCES." EXCEEDING THE MAXIMUM GRADIENTS IN THE REGULATIONS IS ENTIRELY AT THE CONTRACTOR'S RISK. THE CONTRACTOR SHALL VERIFY IN WRITING THAT ALL WALKS HAVE BEEN CONSTRUCTED IN COMPLIANCE WITH THE MAAB'S REGULATIONS.
5. CURB RADII AND DIMENSIONS SHOWN ARE AT THE FACE OF CURB.
6. FOR ACCESSIBLE CURB CUTS TO SIDEWALKS, SEE LANDSCAPE DRAWINGS.
7. SEE SPECIFICATIONS FOR PAVEMENT STRIPING AND MARKINGS.
8. LAYOUT SHOWN HEREON IS BASED UPON THE EXISTING CONDITIONS SURVEY PLAN CONTAINED IN THIS SET OF DRAWINGS. SURVEYOR OF RECORD SHALL BE CONTACTED PRIOR TO COMMENCEMENT OF ANY SITE WORK TO ESTABLISH SURVEY CONTROL FOR LAYOUT PURPOSES.
9. ALL ACCESSIBLE PARKING SPACES SHALL HAVE SIGNAGE AND MARKINGS COMPLIANT WITH MAAB REGULATIONS. SEE SPECIFICATIONS.
10. SEE LANDSCAPE MATERIALS PLAN FOR ADDITIONAL INFORMATION ON VEHICULAR CONCRETE AND BITUMINOUS CONCRETE PAVEMENT TOP COURSE TYPE, COLOR AND TREATMENT.
11. ROAD AND PARKING STRIPING SHALL BE STANDARD 4-INCH WIDE STRIPING AND MEET MUTCD STANDARDS.

LEGEND

(SEE EXISTING CONDITIONS PLAN FOR EXISTING CONDITIONS SYMBOLS AND ABBREVIATIONS)

DMH	PROPOSED DRAIN MANHOLE
STU	PROPOSED STORMWATER TREATMENT UNIT
CB	PROPOSED DEEP SUMP CATCH BASIN
RD	PROPOSED ROOF DRAIN
OCS	PROPOSED OUTLET CONTROL STRUCTURE
SMH	PROPOSED SEWER MANHOLE
WG	PROPOSED WATER GATE VALVE
HYD	PROPOSED FIRE HYDRANT
R=20'	RADIUS = 20 FEET
VGC	PROPOSED VERTICAL GRANITE CURB
TGC	PROPOSED TRANSITIONAL GRANITE CURB
VGC	PROPOSED FLUSH GRANITE CURB
CCB	PROPOSED CAPE COD BERM
EOP (NC)	PROPOSED EDGE OF PAVEMENT (NO CURB)
	HDPE FLARED END SECTION
	STANDARD TOP COURSE BITUMINOUS CONCRETE PAVEMENT (VEHICULAR)
	DENSE MIX TOP COURSE BITUMINOUS CONCRETE PAVEMENT (VEHICULAR)
	POROUS ASPHALT

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KEY PLAN

NORTH ARROW (Called North) | STAMP

Date: 15 MAY 2020

Drawn By: KMR

Scale: 0 20 40

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Vehicular Pavement Layout and Materials Plan - 03

1.3.03

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MATCHLINE
SEE SHEET 1.3.05

SEE SHEET 1.3.06 FOR NOTES AND LEGEND

MATCHLINE
SEE SHEET 1.3.06

MASSACHUSETTS STATE PLANE COORDINATES (NAD83 – GEOID 18A)

LIMIT OF BORDERING VEGETATED WETLAND

25' NO-DISTURB BUFFER ZONE

50' NO-BUILD BUFFER ZONE

100' WETLAND BUFFER ZONE

SEDIMENT FOREBAY #3A

LEVEL SPREADER #1

STONE FILTER BERM

DMH #5
RIM=133.00 (ABOVE GRADE)
INV IN=129.60 (12" HDPE)
INV OUT=129.50 (8" HDPE)

CB #5
RIM=130.50
INV OUT=127.75

OCS #2
RIM=130.00
INV OUT=126.00
SEE DETAIL

BIORETENTION BASIN #3

DMH #4
RIM=134.90
INV IN=130.40
INV OUT=130.30

CB #2
RIM=135.50
INV OUT=133.20

CB #1
RIM=136.20
INV OUT=133.30

DMH #1
RIM=135.70
INV'S IN=133.10
INV OUT=133.00

DMH #2
RIM=136.20
INV'S IN=132.90
INV OUT=132.80

CB #3
RIM=136.75
INV OUT=133.50

SEDIMENT FOREBAY #2A

STONE FILTER BERM

OCS #1
RIM=135.00
INV OUT=131.00
SEE DETAIL

BIO-RETENTION BASIN #2

STONE FILTER BERM

SEDIMENT FOREBAY #2B

CB #4
RIM=135.80
INV OUT=132.70

DETAIL N.T.S.
1/2"ROD (FD)
867.80'
0.40'
1.00'
489.92'

BIO-RETENTION BASIN #1
SEE INSET PLAN ON THIS SHEET
FOR FULL BASIN GRADING

STONE FILTER BERM

SEDIMENT FOREBAY #1

TC 137.00
BC 136.50

LION'S MOUTH ROAD

#205

352.01'(R)
334.43'(C)
S36°25'06"W

DRILL HOLE IN STONE WALL SEGMENTS IN LANDSCAPED AREA

12" HDPE
15" HDPE
INV=127.20
INV=132.50
TC 131.05
BC 130.55
TC 134.86
BC 134.36
TC 131.40
BC 131.00
TC/BC 131.40
TC/BC 133.42
TC 133.65
BC 133.15
TC 133.50
BC 133.00
TC 130.89
BC 130.39
TR 130.72
130.74
TC 131.00
BC 130.50
TR 131.72

POROUS ASPHALT CELL DIVIDER

POROUS ASPHALT SUBDRAIN

PROPOSED POROUS ASPHALT PARKING LOT

DMH #3
RIM=134.00
INV IN=130.90
INV OUT=130.80

SEDIMENT FOREBAY #3B

136 (INTERPOLATED) 489.92'
N54°00'29"W

N32°00'00"E 1400.00'

SEE INSET PLAN ON THIS SHEET FOR FULL BIORETENTION BASIN #1 GRADING

KEY PLAN

NORTH ARROW

STAMP

Date: 15 MAY 2020

Drawn By: KMR

Scale: 0 20 40

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Stormwater Grading and Drainage Plan - 01

1.3.04

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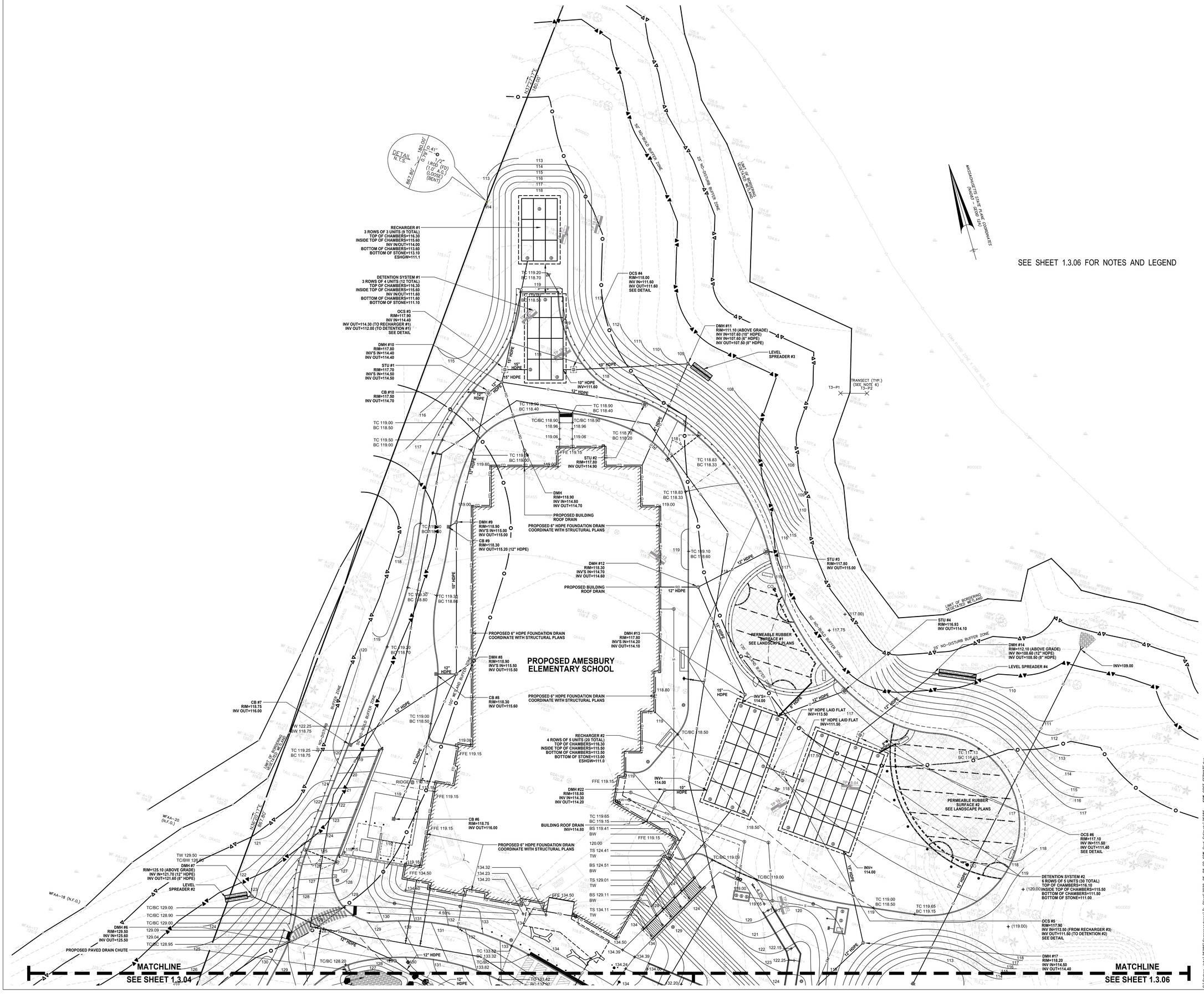

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KEY PLAN

NORTH ARROW — STAMP

Date: 15 MAY 2020

Drawn By: KMR

Scale: 0 20 40

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Stormwater Grading and Drainage Plan - 02

1.3.05

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KEY PLAN

NORTH ARROW (Called North) | STAMP

Date: 15 MAY 2020

Drawn By: KMR

Scale: 0 20 40

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Stormwater Grading and Drainage Plan - 03

1.3.06

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MATCHLINE
SEE SHEET 1.3.05

MATCHLINE
SEE SHEET 1.3.04

MATCHLINE
SEE INSET PLAN THIS SHEET

MATCHLINE
SEE THIS SHEET

SEE DETAIL

CHARLES C. CASHMAN ELEMENTARY SCHOOL
TWO EXISTING BRICK BUILDINGS
(TO REMAIN)

MASSACHUSETTS STATE PLANE COORDINATES (NAD83 / 2001 IAU)

LINDBERGH AVENUE (UNCONSTRUCTED)

LION'S MOUTH ROAD

TAX MAP 50, LOT 6
TAX MAP 50, LOT 42

N16°25'48"E 202.50'

S16°25'48"W 202.50'

N73°34'12"W 185.00'

100' WETLAND BUFFER ZONE

50' NON-BUILD BUFFER ZONE

25' NON-DISTURB BUFFER ZONE

LIMIT OF BORDERING VEGETATED WETLAND

EXISTING DMH TO REMAIN MAINTAIN EXISTING INLET AND OUTLET PIPES

EXISTING DMH TO REMAIN MAINTAIN EXISTING INLET AND OUTLET PIPES FOR EXISTING BUILDING ROOF DRAINS

EXISTING CB TO BE REMOVED

EXISTING CB AND OUTLET PIPE TO REMAIN RIM=117.90

CB #14
RIM=112.50
INV OUT=109.75

OUTLET FROM PD TO DISCHARGE THROUGH A SCUPPER IN THE NEW WALL AND FALL ONTO A STONE SPLASH PAD
INV=119.80

PD #1
RIM=123.66
INV OUT=120.00 (6" HDPE)

DMH #16
RIM=126.00
INV'S IN =119.10
INV OUT=119.00

STU #5
RIM=125.50
INV'S IN=120.00
INV OUT=119.90

CB #13
RIM=125.40
INV OUT=121.40 (12" HDPE)

DMH #15
RIM=125.80
INV'S IN=120.50
INV OUT=120.40

CB #12
RIM=124.50
INV OUT=121.00

CB #11
RIM=124.65
INV OUT=121.20

CB #15
RIM=121.40
INV OUT=117.00

CB #16
RIM=121.50
INV OUT=117.50

OCS #7
RIM=123.50
INV OUT=119.00
SEE DETAIL

DETENTION SYSTEM #4
(SURFACE BASIN)

CB #18
(DOUBLE INLET)
RIM=117.00
INV OUT=113.50 (12" HDPE)

STU #7
RIM=117.30
INV IN=113.10
INV OUT=113.00

DMH-EXIST #2
EXISTING CB STRUCTURE TO REMAIN
INSTALL A NEW DMH COVER AND BRING TO FINISH GRADE
RIM=117.80
INV IN=111.70
INV IN=109.90 (EXISTING)
INV OUT=109.60

DMH-EXIST #3
EXISTING CB TO REMAIN
INSTALL A NEW DMH COVER AND BRING TO FINISH GRADE

REMOVE EXISTING 12" CMP
INSTALL 15" HDPE AND FLARED END SECTION OUTLET

REMOVE EXISTING 12" CMP
INSTALL 12" HDPE

DETENTION SYSTEM #3
TOP OF CHAMBERS=117.30
INSIDE TOP OF CHAMBERS=116.50
BOTTOM OF CHAMBERS=109.50
SEE DETAILS

DMH #20
INSTALL ON EXISTING 12" RCP DRAIN LINE
RIM=120.10
INV IN=111.70
INV IN=111.6± (EXISTING - COMPUTED)
INV OUT=111.6± (EXISTING - COMPUTED)

1" I.PIPE INSIDE 12" I.PIPE(FD) (1.8' A.G.)

DETAIL N.T.S.

DMH #21
INSTALL ON EXISTING DRAIN LINE
MAINTAIN EXISTING 15" CMP PIPE
RIM=119.20
INV IN=113.80
INV IN=113.5± (EXISTING)
INV OUT=113.5± (EXISTING)

STU #8
RIM=119.90
INV'S IN=115.80
INV OUT=115.70

EXISTING CB TO BE REMOVED

CB #19
RIM=120.20
INV OUT=116.70

CB #20
RIM=119.50
INV OUT=116.00

DMH #18
RIM=121.70
INV'S IN=117.10
INV OUT=117.00

DMH #19
RIM=122.50
INV IN=115.60
INV OUT=115.70

CB #17
RIM=122.00
INV OUT=116.00

STU #6
RIM=121.20
INV'S IN=116.30
INV OUT=116.20

DMH-EXIST #1
(EXISTING DMH TO REMAIN)
NEW INV IN=111.20 (10" HDPE)
MAINTAIN EXISTING INLET AND OUTLET PIPES

REMOVE EXISTING 12" CMP
INSTALL NEW 15" HDPE

15" CMP TO REMAIN

DRAINAGE NOTES

1. FOR ROOF DRAINS, SEE PLUMBING PLANS. ROOF DRAINS EXITING THE BUILDING TO 10 FEET FROM THE BUILDING ARE BY THE PLUMBING CONTRACTOR. SITE CONTRACTOR TO COORDINATE WITH THE PLUMBER.
2. WHERE CONNECTIONS AND STRUCTURES ARE TO BE INSTALLED AT EXISTING DRAINS, CONTRACTOR TO CONFIRM LOCATION AND ELEVATION PRIOR TO INSTALLATION OF TRIBUTARY DRAIN SYSTEM AND NOTIFY THE ENGINEER OF ANY SIGNIFICANT DISCREPANCY FROM PLAN INFORMATION.
3. ALL EXISTING DRAIN FACILITIES TO BE ABANDONED OR REMOVED DURING THE CONSTRUCTION PROCESS SHALL BE PROPERLY ABANDONED AND/OR REMOVED IN ACCORDANCE WITH THE CITY OF AMESBURY DPW REQUIREMENTS.
4. FOR FOUNDATIONS DRAINS, UNDER SLAB DRAIN CONNECTIONS AND CLEANOUT DETAILS, SEE STRUCTURAL PLANS.
5. UNLESS OTHERWISE NOTED ON THE PLANS, ALL DRAINAGE PIPE SHALL BE HDPE AND SHALL BE HEAVY DUTY CORRUGATED SMOOTH INTERIOR WALL PIPE (HDPE) OR APPROVED EQUAL.
6. STORMATER MANAGEMENT STRUCTURES/MANHOLES TO REMAIN:
   - ADJUST FRAMES AND COVERS TO FINISHED GRADE AS NECESSARY. WHEN ADJUSTING UP LESS THAN 18", USE BRICK AND MORTAR TO RAISE FRAME AND COVER. WHEN ADJUSTING GREATER THAN 18", USE PRECAST CONCRETE RING ALONG WITH BRICK AND MORTAR TO BRING TO GRADE.
   - PLUG EXISTING CONNECTIONS TO BE ABANDONED WITH BRICKS AND HYDRAULIC CEMENT, PARGED SMOOTH.
   - ALL WORK PER THE CITY OF AMESBURY DPW REQUIREMENTS.
7. ALL UTILITIES NOTED AS "TO BE REMOVED/ABANDONED". EXISTING UTILITIES TO BE REMOVED/ABANDONED WITHIN THE PROPOSED BUILDING FOOTPRINT AND WHERE THEY INTERFERE WITH NEW CONSTRUCTION CANNOT BE ABANDONED IN PLACE, UNLESS OTHERWISE NOTED, AND SHALL BE REMOVED. OTHER UTILITIES SHOWN TO BE REMOVED/ABANDONED MAY BE CUT, CAPPED AND FILLED WITH FLOWABLE FILL AND ABANDONED IN PLACE. UTILITIES ABANDONED IN PLACE SHALL BE LOCATED, NOTED AND SHOWN ON THE AS-BUILT PLANS. SEE SPECIFICATIONS.
8. CONTRACTOR TO COORDINATE ELECTRIC / TELECOMM DUCT BANK LOCATIONS AND ELEVATIONS TO AVOID CONFLICT WITH DRAIN LINES AND STRUCTURES.

LEGEND

(SEE EXISTING CONDITIONS PLAN FOR EXISTING CONDITIONS SYMBOLS AND ABBREVIATIONS)

D	PROPOSED DRAIN LINE
RD	PROPOSED ROOF DRAIN
FD	PROPOSED FOUNDATION DRAIN
W	PROPOSED WATER LINE
FP	PROPOSED FIRE PROTECTION SERVICE LINE
S	PROPOSED SEWER LINE
FM	PROPOSED SEWER FORCE MAIN LINE
G	PROPOSED GAS LINE
~~	EXISTING UTILITY TO BE REMOVED/ABANDONED (SEE NOTES)
DMH(D)	PROPOSED DRAIN MANHOLE
STU(D)	PROPOSED STORMWATER TREATMENT UNIT
CB	PROPOSED DEEP SUMP CATCH BASIN
RD	PROPOSED ROOF DRAIN
OCS	PROPOSED OUTLET CONTROL STRUCTURE
SMH(S)	PROPOSED SEWER MANHOLE
WG	PROPOSED WATER GATE VALVE
HYD	PROPOSED FIRE HYDRANT
HDPE	HIGH DENSITY POLYETHYLENE
CO	CLEANOUT
FD	FOUNDATION DRAIN
SD	SUBDRAIN
PD	PAVEMENT DRAIN

MATCHLINE
SEE SHEET 1.3.08

MASSACHUSETTS STATE PLANE COORDINATES (NAD83 - 2011 - US SURVEY FEET)

LIMIT OF BORDERING VEGETATED WETLAND

25' NO-DISTURB BUFFER ZONE

50' NO-BUILD BUFFER ZONE

100' WETLAND BUFFER ZONE

8" CLDI

6" CLDI

NEW GAS SERVICE

PROPOSED FIRE HYDRANT AND GATE VALVE

HEYDEN'S SERVICE

DETAIL N.T.S.

1/2"ϕ ROD (FD)

S67.80°E 0.40' 0.55' 489.92'

#205

352.01'(R) 354.93'(C) S36°29'26"W

136 (INTERPOLATED) 489.92' N54°06'29"W

MATCHLINE
SEE SHEET 1.3.09

N37°53'31"E 120.00'

LION'S MOUTH ROAD

PROPOSED FIRE HYDRANT AND GATE VALVE.

CONNECT NEW 8" CLDI WATER MAIN TO EXISTING 12" WATER MAIN IN THE ROADWAY VIA TAPPING SLEEVE CONNECTION.

DRILL HOLE IN STONE WALL REMNANTS IN LANDSCAPED AREA

SEE SHEET 1.3.09 FOR NOTES AND LEGEND

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KEY PLAN

N Called North

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: KMR

Scale: 0 20 40

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Site Utilities Plan - 01

1.3.07

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SEE SHEET 1.3.09 FOR NOTES AND LEGEND

MATCHLINE
SEE SHEET 1.3.07

MATCHLINE
SEE SHEET 1.3.09

KEY PLAN

NORTH ARROW — STAMP

Date: 15 MAY 2020

Drawn By: KMR

Scale: 0 20 40

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Site Utilities Plan - 02

1.3.08

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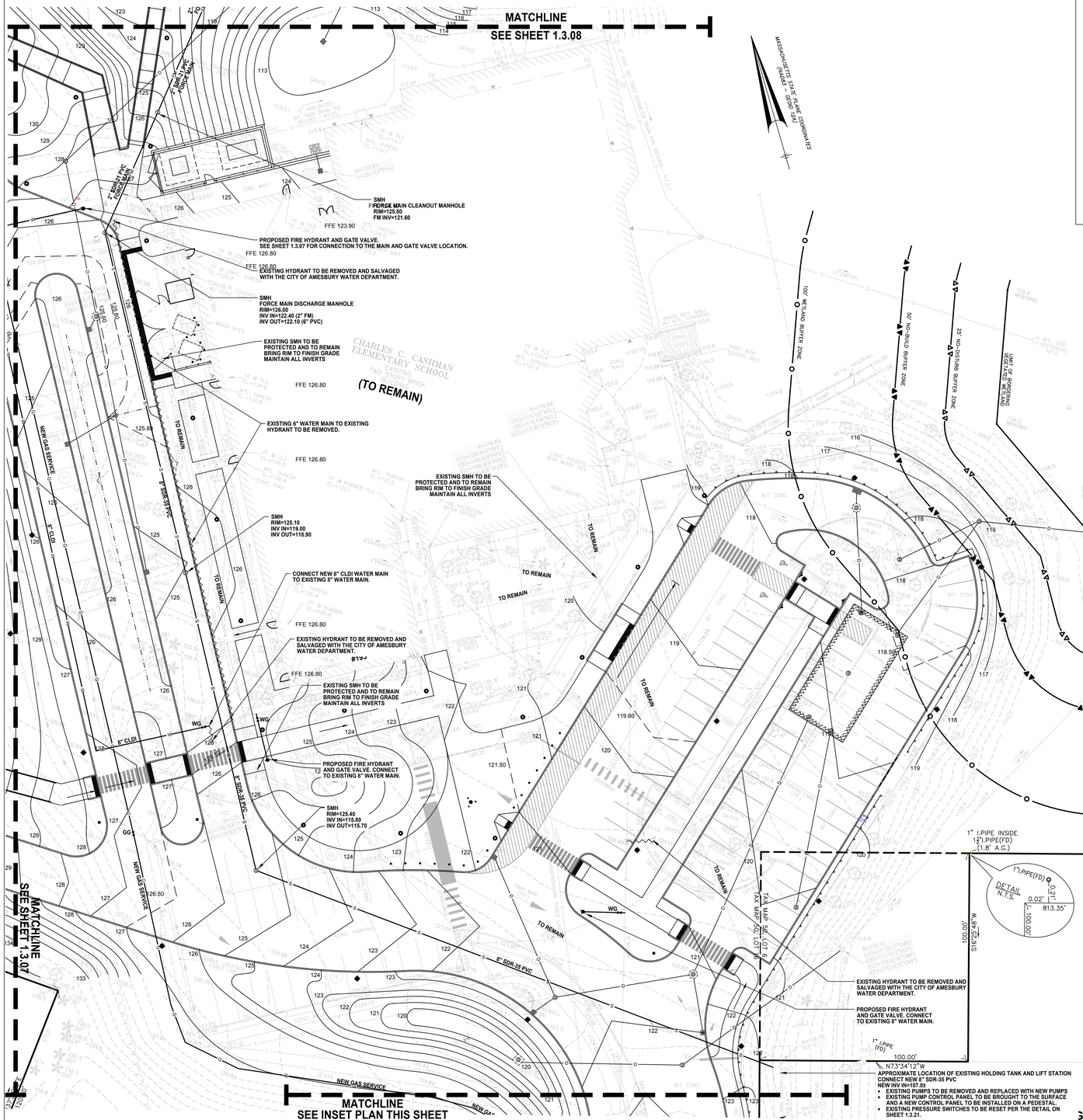

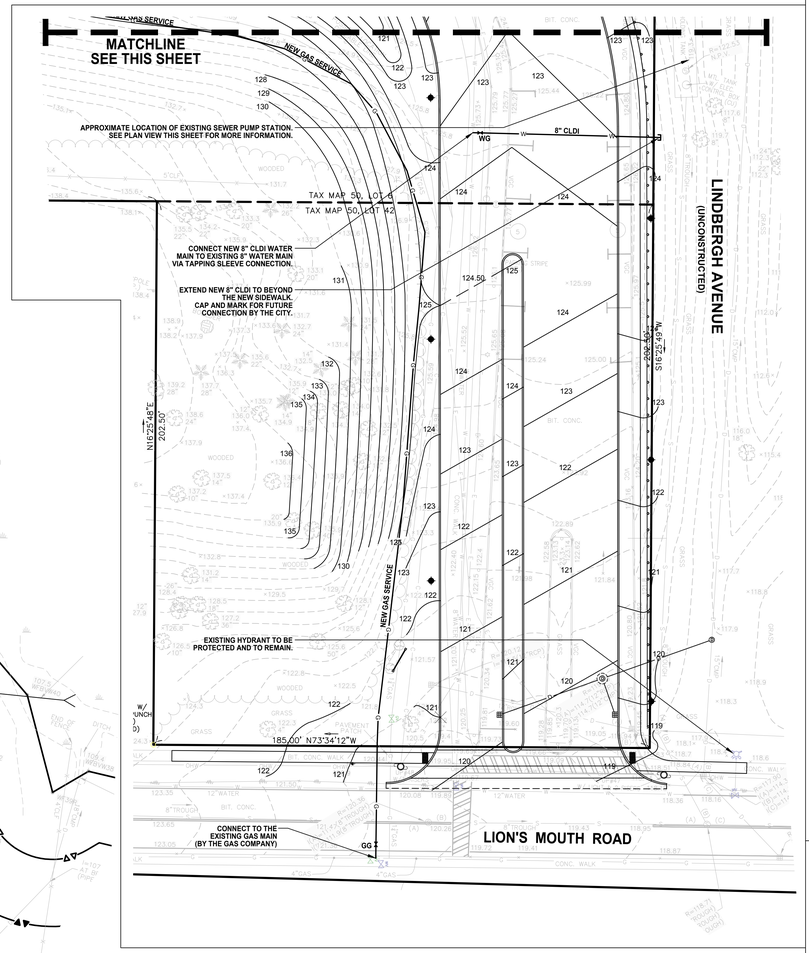

SITE UTILITY NOTES

1. ALL UTILITY INSTALLATION TO BE IN FULL COMPLIANCE WITH THE CITY OF AMESBURY DPW REQUIREMENTS.
2. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL SEWER, WATER AND GAS INFORMATION.
3. ALL WATER MAINS AND SERVICES TO HAVE A MINIMUM COVER OF 5'-0".
4. WATER SERVICE BOXES FOR GATE VALVES TO REMAIN ARE TO BE ADJUSTED TO FINISHED GRADE.
5. FOR SIAMESE FIRE CONNECTIONS AND FIRE SERVICE CONNECTIONS, SEE FIRE PROTECTION PLANS.
6. SEWER SERVICE INSTALLATION:
   - CONTRACTOR IS TO PERFORM ALL SEWER INSTALLATION WORK SUCH THAT THERE IS NO DISRUPTION IN SERVICE TO THE EXISTING FACILITIES.
   - ALL EXISTING SEWER CONNECTIONS AND/OR COMPONENTS TO BE ABANDONED SHALL BE PROPERLY CAPPED AND PLUGGED IN ACCORDANCE WITH THE CITY OF AMESBURY DPW REQUIREMENTS.
7. SEWER MANHOLES TO REMAIN:
   - ADJUST FRAMES AND COVERS TO FINISHED GRADE AS NECCESSARY. WHEN ADJUSTING LESS THAN 18", USE BRICK AND MORTAR TO RAISE FRAME AND COVER. WHEN ADJUSTING GREATER THAN 18", USE PRECAST CONCRETE RING ALONG WITH BRICK AND MORTAR TO BRING TO GRADE.
   - PLUG EXISTING CONNECTIONS TO BE ABANDONED WITH BRICKS AND HYDRAULIC CEMENT.
   - ALL WORK PER THE CITY OF AMESBURY DPW REQUIREMENTS.
8. ALL UTILITIES NOTED AS "TO BE REMOVED/ABANDONED": EXISTING UTILITIES TO BE REMOVED/ABANDONED WITHIN THE PROPOSED BUILDING FOOTPRINT AND WHERE THEY INTERFERE WITH NEW CONSTRUCTION CANNOT BE ABANDONED IN PLACE AND SHALL BE REMOVED. OTHER UTILITIES SHOWN TO BE REMOVED/ABANDONED MAY BE CUT, CAPPED AND FILLED WITH FLOWABLE FILL AND ABANDONED IN PLACE. UTILITIES ABANDONED IN PLACE SHALL BE LOCATED, NOTED AND SHOWN ON THE AS-BUILT PLANS. SEE SPECIFICATIONS.
9. CONTRACTOR TO COORDINATE ELECTRIC / TELECOMM DUCT BANK LOCATIONS AND ELEVATIONS TO AVOID CONFLICT WITH PROPOSED SEWER, WATER AND GAS LINES AND STRUCTURES AND ALL EXISTING UTILITIES.

LEGEND

(SEE EXISTING CONDITIONS PLAN FOR EXISTING CONDITIONS SYMBOLS AND ABBREVIATIONS)

D	PROPOSED DRAIN LINE
RD	PROPOSED ROOF DRAIN
FD	PROPOSED FOUNDATION DRAIN
W	PROPOSED WATER LINE
FP	PROPOSED FIRE PROTECTION SERVICE LINE
S	PROPOSED SEWER LINE
FM	PROPOSED SEWER FORCE MAIN LINE
G	PROPOSED GAS LINE
	EXISTING UTILITY TO BE REMOVED/ABANDONED (SEE NOTES)
DMH	PROPOSED DRAIN MANHOLE
STU	PROPOSED STORMWATER TREATMENT UNIT
CB	PROPOSED DEEP SUMP CATCH BASIN
RD	PROPOSED ROOF DRAIN
OCS	PROPOSED OUTLET CONTROL STRUCTURE
SMH	PROPOSED SEWER MANHOLE
WG	PROPOSED WATER GATE VALVE
HYD	PROPOSED FIRE HYDRANT
HDPE	HIGH DENSITY POLYETHYLENE
CO	CLEANOUT
FD	FOUNDATION DRAIN
SD	SUBDRAIN

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KEY PLAN

NORTH ARROW (Called North) | STAMP

Date: 15 MAY 2020

Drawn By: KMR

Scale: 0 20 40

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Site Utilities Plan - 03

1.3.09

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MATCHLINE
SEE SHEET 1.3.11

MASSACHUSETTS STATE PLANE COORDINATES (NAD83 GRID) (FEET)

LIMIT OF BORDERING VEGETATED WETLAND

25' NO-DISTURB BUFFER ZONE

50' NO-BUILD BUFFER ZONE

100' WETLAND BUFFER ZONE

INSTALL FIBER LOG SEDIMENT BARRIER SEE DETAILS

INSTALL SILT SACK IN NEWLY INSTALLED CATCH BASIN (TYP)

TEMPORARY FIBER LOG INSTALLATION TO PROTECT THE BIORETENTION BASIN BOTTOM DURING VEGETATION ESTABLISHMENT

TEMPORARY STONE CONSTRUCTION ENTRANCE

LION'S MOUTH ROAD

DRILL HOLE IN STONE WALL REMNANTS IN LANDSCAPED AREA

DETAIL N.T.S.

1/2"ɸ ROD (FD)

0.40' I 0.05

489.92'

352.01'(R)

S36°29'06"W

#205

136 (INTERPOLATED)

489.92'

N54°06'29"W

MATCHLINE
SEE SHEET 1.3.12

SEE SHEET 1.3.13 FOR NOTES

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KEY PLAN

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NORTH ARROW | STAMP

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Revisions

Number	Date	Description

60% COST ESTIMATE SET

Erosion and Sediment Control Plan - 01

1.3.10

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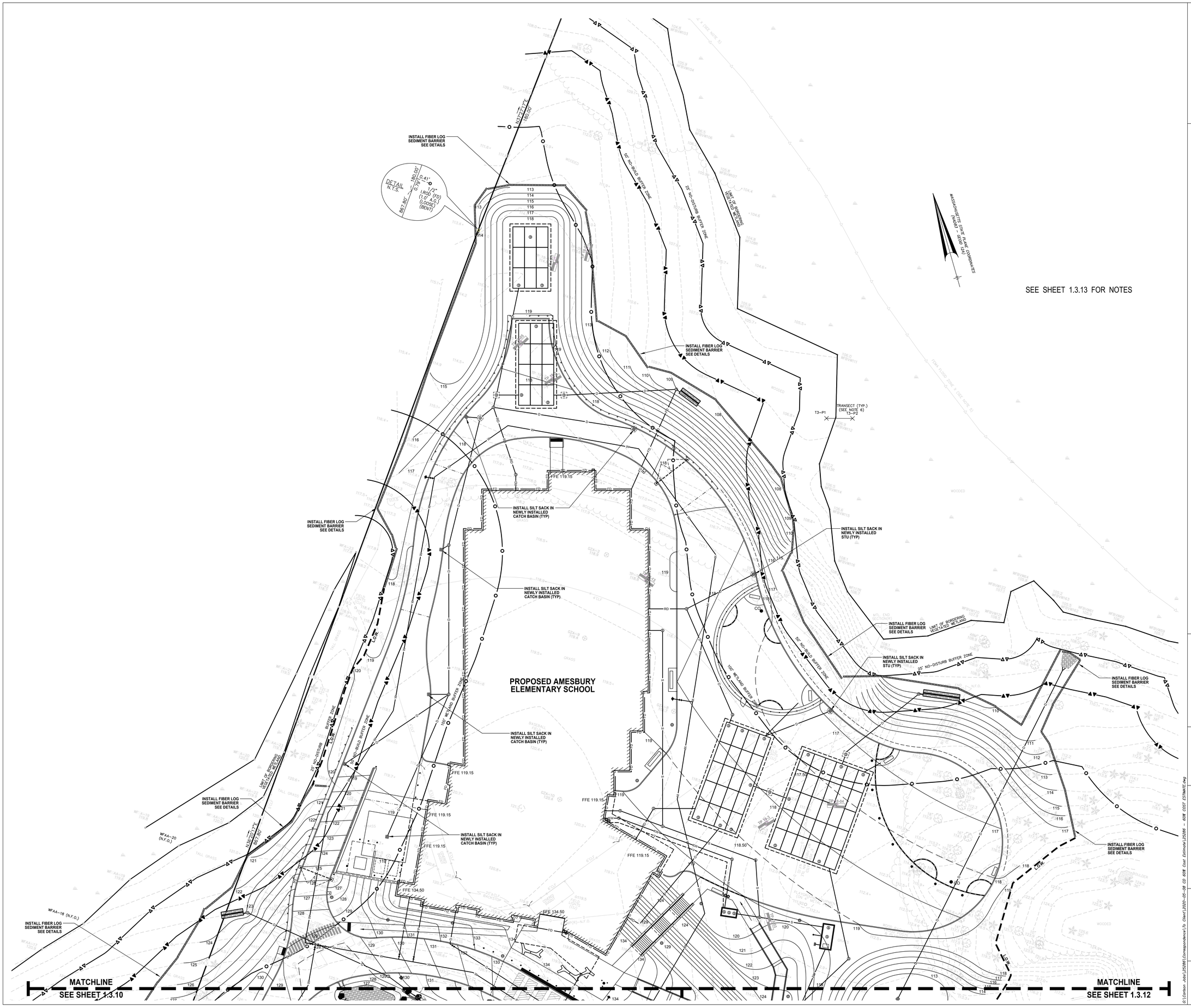

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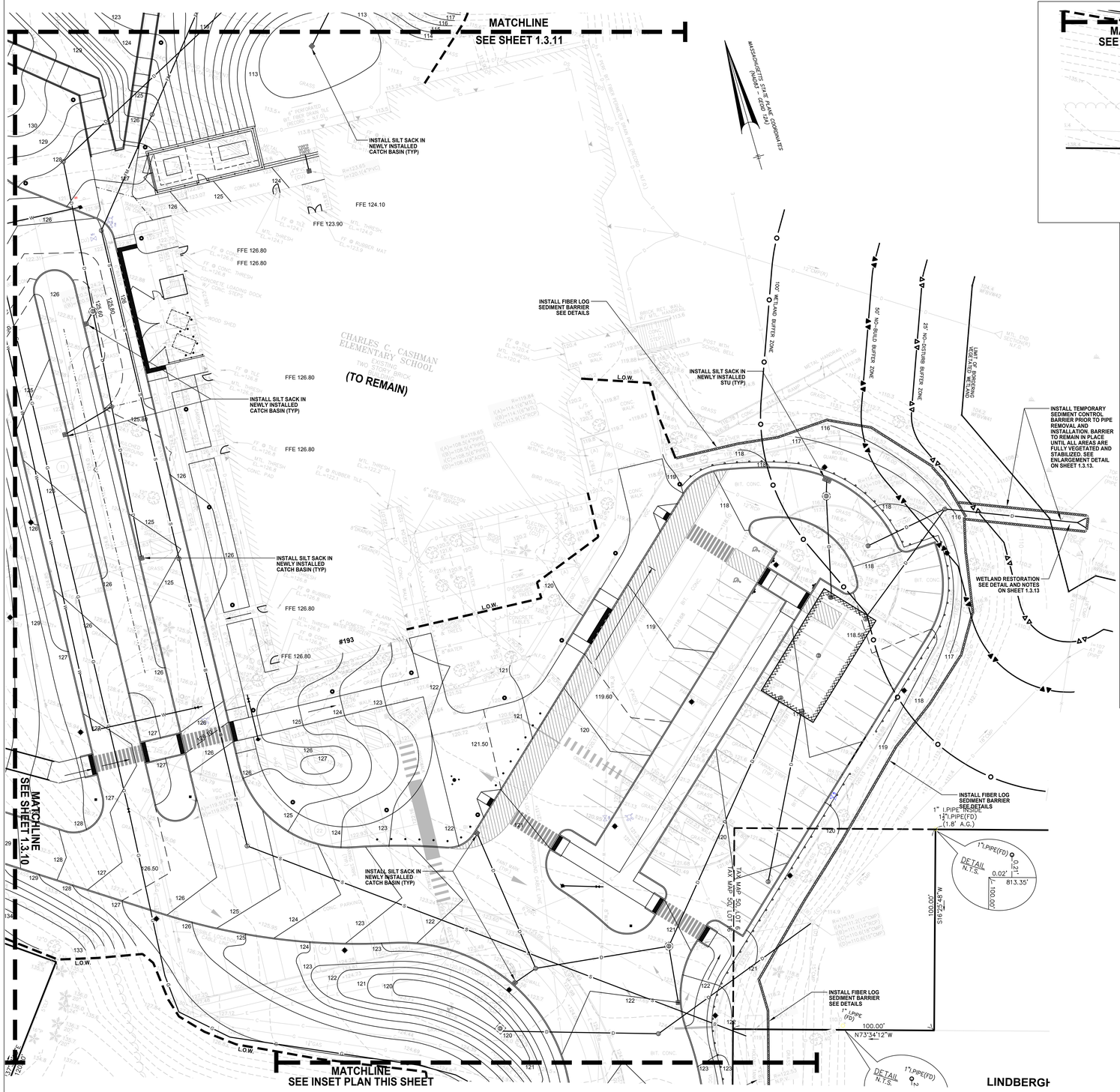

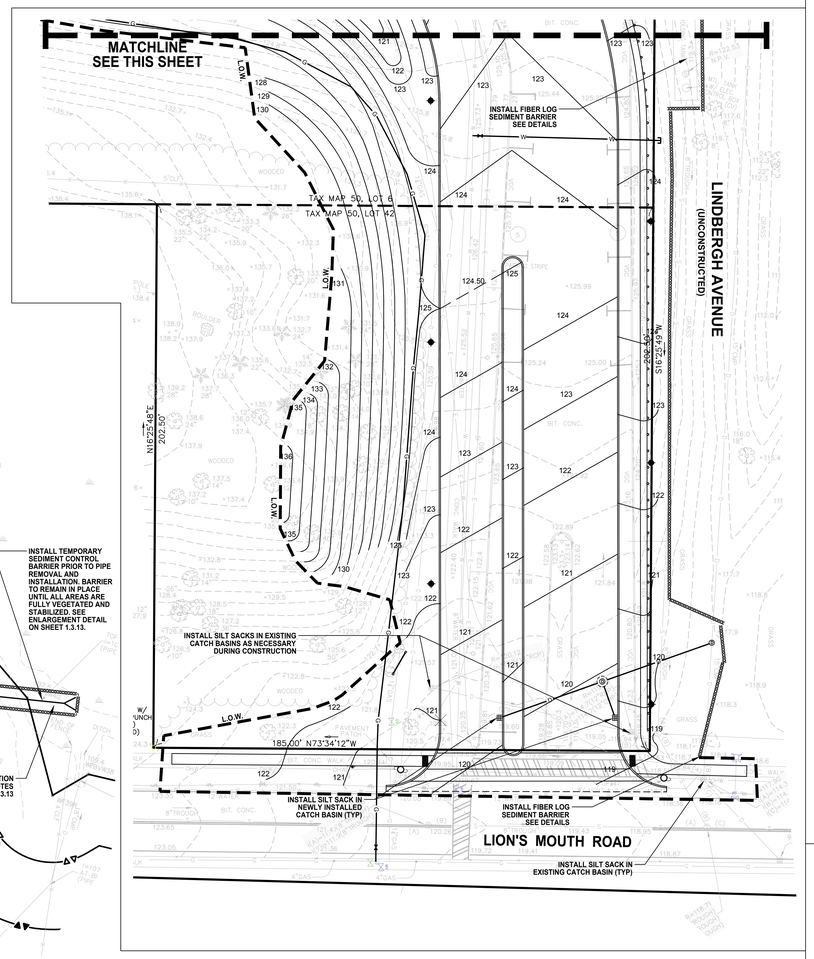

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EROSION AND SEDIMENT CONTROL NOTES

1. GENERAL PERFORMANCE STANDARDS:

1.1. THE CONTRACTOR SHALL INSTALL, ROUTINELY INSPECT AND MAINTAIN ALL SEDIMENT AND EROSION CONTROLS SUCH THAT THEY ARE IN PROPER WORKING ORDER AT ALL TIMES DURING THE CONSTRUCTION PROJECT UNTIL SUCH TIME AS ALL AREAS OF THE SITE TRIBUTARY TO THOSE EROSION CONTROLS ARE IN A PERMANENTLY STABILIZED CONDITION.

1.2. THE PLAN VIEWS IN THIS PLAN SET SHOW ONLY THE LOCATIONS OF THE PERIMETER EROSION CONTROLS AND ARE NOT INTENDED TO SHOW ALL EROSION CONTROLS NECESSARY FOR MANAGEMENT OF THE SITE. THE CONTRACTOR SHALL MANAGE THE SITE SUCH THAT EROSION AND SEDIMENT FROM RUNOFF AND WIND BLOWN DUST ARE CONTROLLED AND MINIMIZED AT ALL TIMES. THE EROSION CONTROLS SHOWN ON THIS PLAN INCLUDE THE INITIAL SETUP OF EROSION CONTROLS AND BASIC INFORMATION. TO MEET THE REQUIREMENT OF BEST MANAGEMENT PRACTICES, THE CONTRACTOR MUST MANAGE THE SITE PROPERLY WHICH MAY INCLUDE, BUT NOT BE LIMITED TO: MINIMIZING AREAS OF EXPOSED SOILS; INSTALLING TEMPORARY COVER; MAKE NECESSARY ADJUSTMENTS TO THE EROSION CONTROL INSTALLATIONS TO IMPROVE FUNCTION; PROVIDE TEMPORARY SEDIMENT BASINS; INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL WHERE NECESSARY.

1.3. THE EROSION CONTROL WORK IS ALSO SUBJECT TO PERMITS AND APPROVALS UNDER THE MUNICIPAL STORMWATER ORDINANCES AND ALL STATE, LOCAL AND FEDERAL REGULATIONS. THE PROJECT MAY ALSO BE SUBJECT TO OTHER STATE AND LOCAL APPROVALS. THE CONTRACTOR SHALL OBTAIN AND BE RESPONSIBLE FOR COMPLIANCE WITH THE CONDITIONS AND REQUIREMENTS OF THOSE PERMITS.

1.4. DESIGN, INSTALLATION AND MAINTENANCE OF SEDIMENT AND EROSION CONTROLS SHALL BE IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES FOLLOWING THE GUIDELINES INCLUDE IN THE FOLLOWING:
- "STORMWATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES, DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES" U.S. ENVIRONMENTAL PROTECTION AGENCY, OCTOBER 1992.
- "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, A GUIDE FOR PLANNERS, DESIGNERS AND MUNICIPAL OFFICIALS", MASS. EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS, MAY 2003.
- U.S.D.A. NATURAL RESOURCES AND CONSERVATION SERVICES (NRCS) GUIDELINES.

2. FEDERAL NPDES PHASE II COMPLIANCE:

2.1. THIS PROJECT IS SUBJECT TO THE FEDERAL CLEAN WATER ACT REQUIREMENTS FOR CONSTRUCTION SITES ADMINISTERED BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA). THIS PROGRAM IS THE "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) – PHASE II FOR CONSTRUCTION SITES. FOR COMPLIANCE WITH THIS PROGRAM, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A COMPLETE "STORMWATER POLLUTION PREVENTION PLAN" (SWPPP) IN CONFORMANCE WITH THE CURRENT CONSTRUCTION GENERAL PERMIT AND FILING A NOTICE OF INTENT WITH THE EPA UNDER THE NPDES PROGRAM. THE CONTRACTOR SHALL THEN MANAGE THE SITE IN COMPLIANCE WITH THE SWPPP AND IN COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT. NOTE THAT THE SWPPP IS TO BE PREPARED TO BE CONSISTENT WITH THIS EROSION AND SEDIMENT CONTROL PLAN AND OTHER APPLICABLE APPROVALS. THE EROSION AND SEDIMENT CONTROL PLAN INCLUDED IN THIS PLAN SET MAY BE USED AS PART OF THE DOCUMENTATION REQUIRED FOR THE PREPARATION OF A SWPPP, BUT IS NOT TO BE CONSIDERED AS MEETING THE FULL REQUIREMENTS OF A SWPPP PREPARED FOR COMPLIANCE WITH THE NPDES PROGRAM.

2.2. A COPY OF THE SWPPP SHALL BE FILED WITH THE MUNICIPAL ENGINEERING DEPARTMENT AND OTHERS AS REQUIRED BY APPLICABLE PERMITS AND APPROVALS.

3. PERIMETER FIBER LOG / CONSTRUCTION FENCE AND LIMIT OF WORK:

3.1. PRIOR TO ANY DISTURBANCE OR ALTERATIONS OF ANY AREA ON THE SITE, AN EROSION CONTROL BARRIER AND CONSTRUCTION FENCE SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS AND CONTRACT DOCUMENTS.

3.2. INSTALL THE FIBER LOGS AS SHOWN. IN THOSE AREAS WHERE THE TOPOGRAPHY INDICATES THAT STORMWATER RUNOFF WILL BE CONCENTRATED (AT LOW POINTS), ADDITIONAL FIBER LOGS, AS NECESSARY, SHALL BE ADDED FOR ADDITIONAL FILTRATION AND PROTECTION. SILT FENCE FOR ADDED SUPPORT MAY BE ADDED AS NECESSARY. THE REQUIRED LOCATIONS FOR THE ADDED FIBER LOG.

INSTALLATION WILL BE SELECTED BY THE ENGINEER AND / OR THE AUTHORIZED INSPECTOR/ SWPPP COORDINATOR UPON COMPLETION OF THE FIBER LOG INSTALLATION (SEE DETAIL).

3.3. ONCE INSTALLED, THE STAKED FIBER LOGS SHALL BE MAINTAINED IN PLACE UNTIL ALL AREAS UPGRADIENT FROM THE BARRIERS HAVE BEEN PERMANENTLY STABILIZED.

3.4. ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED OR WHERE SPECIAL STABILIZATION MEASURES OR LANDSCAPE PLANTINGS ARE PROPOSED SHALL BE LOAMED AND SEEDED OR SODDED. SIX INCHES OF LOAM TOPSOIL (MIN. COMPACTED DEPTH) SHALL BE APPLIED UNLESS, OTHERWISE SPECIFIED. (SEE LANDSCAPE PLAN AND OTHER PLANS AS APPLICABLE).

3.5. THE PERIMETER FIBER LOGS AND CONSTRUCTION FENCING ARE ALSO LIMITS OF WORK. ALL AREAS OUTSIDE THE LIMIT ARE TO BE LEFT UNDISTURBED. DURING THE SITE WORK, ALL PERSONS AND EQUIPMENT SHALL STAY OUT OF THESE AREAS TO PRESERVE THE EXISTING VEGETATION AND SOIL COVER.

4. CONSTRUCTION ENTRANCE:

4.1. AT THE START OF SITE WORK, A STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT ALL ACCESS POINTS TO THE CONSTRUCTION SITE FROM THE ROADWAY TO CONTROL THE TRACKING OF MUD OFF THE SITE. THE ENTRANCE SHALL BE MAINTAINED UNTIL THE SITE IS IN A STABILIZED CONDITION WHEN THE POSSIBILITY OF VEHICLES TRACKING MUD OFF SITE HAS BEEN ELIMINATED.

4.2. THE CONTRACTOR SHALL SWEEP THE ADJACENT ROADWAYS WHEN MUD, DUST, DIRT, DEBRIS, ETC. HAS SHOWN SIGNS OF MUD BEING TRACKED ON THE ROADWAYS EXITING THE SITE. THE CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO THIS MATTER AND IMMEDIATE ATTENTION IS ALWAYS REQUIRED.

4.3. THROUGHOUT THE CONSTRUCTION PROCESS, THE LOCATION OF THE CONSTRUCTION ENTRANCE WILL CHANGE DEPENDING ON CONSTRUCTION VEHICLE ENTRANCE AND EXIT LOCATIONS. THE CONTRACTOR SHALL DETAIL THEIR LOCATIONS IN THE STORMWATER POLLUTION PREVENTION PLAN AT EACH PHASE.

5. DEWATERING OF EXCAVATIONS:

5.1. DISCHARGE FROM DEWATERING PUMPS OR TEMPORARY TRENCH OR EXCAVATION DRAINS SHALL NOT BE DISCHARGED DIRECTLY TO THE ON-SITE DRAINAGE SYSTEM, OR WETLAND RESOURCE AREAS. DISCHARGES SHALL BE DIRECTED TO A TREATMENT SYSTEM CONSISTING OF A SEDIMENT BASIN, STRAW BALE SEDIMENT BASIN, FILTER BAG SYSTEM, FRAC TANK OR OTHER APPROVED METHOD TO FILTER THE DISCHARGE WATER AND PREVENT EROSION.

5.2. THE PUMP DISCHARGE SYSTEMS MUST BE GREATER THAN 100 FEET FROM WETLAND RESOURCES UNLESS APPROVED BY THE MUNICIPAL CONSERVATION COMMISSION AND IN ACCORDANCE WITH OTHER APPLICABLE LAWS AND REGULATIONS.

5.3. ALL DEWATERING DRAINAGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES MUST FIRST OBTAIN A DEWATERING DRAINAGE PERMIT. SUCH DISCHARGES SHALL COMPLY WITH THE MUNICIPAL REQUIREMENTS, UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, MASSACHUSETTS DEP AND OTHER APPROPRIATE AGENCIES. UNDER NO CIRCUMSTANCE SHALL DEWATERING DRAINAGE BE DISCHARGED INTO A SANITARY SEWER.

6. SOIL STOCKPILES:

6.1. STOCKPILES OF SOIL MATERIALS SHALL BE PLACED WITHIN AREAS THAT ARE PROTECTED BY PERIMETER EROSION CONTROLS AS SHOWN ON THIS PLAN, OR SHALL BE SURROUNDED BY PROPER SILT FENCING, FIBER LOGS, OR STAKED STRAW BALES.

6.2. STOCKPILES THAT ARE TO BE IN PLACE FOR EXTENDED PERIODS OF TIME (MORE THAN 30 DAYS) SHALL BE COVERED OR OTHERWISE TEMPORARILY STABILIZED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

7. CATCH BASIN INLET PROTECTION:

7.1. CATCH BASINS WITHIN THE WORK AREA OR THAT WILL RECEIVE RUNOFF FROM THE WORK AREA SHALL BE PROTECTED WITH A SILT SACK AND OR OTHER APPROVED INSTALLATION TO MINIMIZE THE SEDIMENT LOAD TO THE BASIN

8. DUST CONTROL:

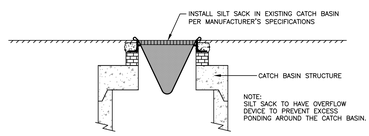
8.1. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES DURING SITE WORK TO MINIMIZE WIND BLOWN DUST FROM EXPOSED SOIL SURFACES. MEASURES INCLUDE BUT ARE NOT LIMITED TO:
- SPRINKLING WATER ON EXPOSED SURFACES
- APPLICATION OF TEMPORARY COVER SUCH AS HYDRO MULCH AND TACIFIER, STRAW MATTING, JUTE NETTING ETC.

9. INFILTRATION & DETENTION SYSTEMS:

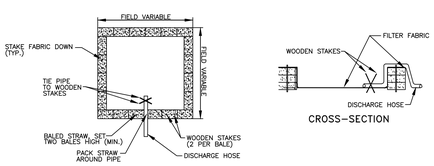
9.1. STORMWATER RUNOFF FROM THE DISTURBED CONSTRUCTION SITE SHALL NOT BE DISCHARGED INTO ANY EXISTING OR PROPOSED INFILTRATION SYSTEM (INCLUDING ALL UNDERGROUND RECHARGER FACILITIES AND BIORETENTION BASINS) UNTIL THE AREA BEING DRAINED IS FULLY STABILIZED AND CLEAN. UNTIL THEN, THE INFILTRATION SYSTEM SHALL REMAIN OFF-LINE AND PROTECTED. THE CONTRACTOR SHALL PROVIDE TEMPORARY BY-PASS SYSTEMS AS NECESSARY TO PREVENT CONSTRUCTION SITE RUNOFF FROM ENTERING THE INFILTRATION SYSTEMS.

9.2. CLEAN ROOF RUNOFF MAY DISCHARGE INTO THE INFILTRATION SYSTEMS IF IT IS PIPED DIRECTLY TO THE SYSTEMS AND NOT RUN OVER DISTURBED AREAS.

SILT FENCE DETAIL
(NO SCALE)



SILT SACK DETAIL
(NO SCALE)



DEWATERING OF EXCAVATIONS NOTES:
1. DISCHARGE FROM DEWATERING PUMPS OR TEMPORARY TRENCH OR EXCAVATION DRAINS SHALL NOT DISCHARGE DIRECTLY TO WETLANDS OR STORM DRAIN SYSTEMS. THE DISCHARGES SHALL BE DIRECTED INTO A CONSTRUCTED SEDIMENT BASIN OR A STRAW BALE SETTLING BASIN, STILLING BASIN, FILTER BAG, FRAC TANK OR SIMILAR DEVICE.
2. SETTLING BASINS MUST BE A MINIMUM OF 100 FEET FROM THE WETLAND RESOURCE AREAS.

STRAW BALE SETTLING BASIN DETAIL
(NO SCALE)

DRAIN OUTLET REPLACEMENT AT WETLANDS NOTES

SCHEDULE:
THE REPLACEMENT OF THE DRAIN OUTLET AT THE WETLANDS MUST BE PERFORMED IN THE FIRST SUMMER OF THE PROJECT SO THAT THE WETLAND AREA IS AS DRY AS POSSIBLE AND THE PLANTINGS CAN TAKE PLACE IN LATE SUMMER TO ESTABLISH THE VEGETATION BEFORE WINTER AND THE MONITORED FOR COMPLIANCE WITH THE PERFORMANCE STANDARDS OF THE MASS. WETLANDS PROTECTION ACT REGULATIONS DURING THE CONSTRUCTION PERIOD.

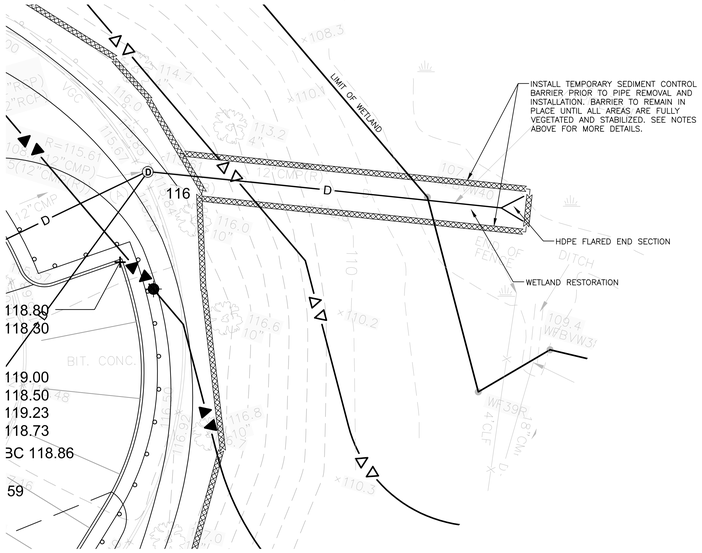
CONSTRUCTION SEQUENCE:
1. PRIOR TO ANY WORK WITHIN THE WETLAND AREA:
   1.1. THE LIMITS OF THE TREE AND SHRUB CLEARING AND PROPOSED SEDIMENT CONTROL BARRIER SHALL BE STAKED AND INSPECTED BY THE PROJECT ENGINEER.
   1.2. INSTALL THE SEDIMENT CONTROL BARRIER FOR INSPECTION BY THE PROJECT ENGINEER. THE ENGINEER WILL DETERMINE IF ANY PARTICULAR TREES AND SHRUBS WITHIN THE DESIGNATED LIMIT OF WORK CAN REMAIN AND BE PROTECTED.

2. CLEAR THE TREES AND BRUSH AS REQUIRED.

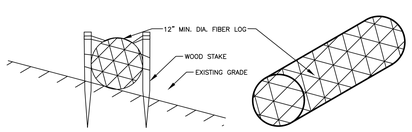
3. TRENCH EXCAVATION AND REMOVE EXISTING 12 INCH DRAIN:
   3.1. EXCAVATE THE EXISTING TOPSOIL WITHIN THE WETLAND AREA AND FROM THE TRENCH AREA AND SAVE THE WETLAND TOPSOIL NEARBY WITHIN THE UPLAND IN THE PROJECT LIMIT OF WORK FOR LATER REUSE.
   3.2. COMPLETE THE TRENCH EXCAVATION AND REMOVE THE EXISTING DRAIN. WITHIN THE WETLANDS, ALL SOIL REMOVED SHALL BE REMOVED FROM THE WETLAND AREA UPON EXCAVATION. IT SHALL NOT BE TEMPORARILY STOCKPILED ADJACENT TO THE TRENCH TO MINIMIZE ALTERATION OF THE ADJACENT AREA.
   3.3. INSTALL THE NEW PIPE AND FLARED END SECTION AND BACKFILL PER THE DRAIN DETAIL TO THE SUBGRADE OF THE TOPSOIL.
   3.4. REPLACE THE WETLAND TOPSOIL IN THE TRENCH TO THE ORIGINAL GRADE. TOPSOIL MUST BE FIRM BUT NOT COMPACTED. FINE GRADE BY HAND PRIOR TO PLANTING.

4. PLANTING:
   4.1. SEED THE DISTURBED AREA WITHIN THE WETLAND WITH THE SEED MIX #1. SEE SHEET 1.3.18 FOR SEED MIXES.
   4.2. INSTALL STRAW MULCH AND JUTE MATTING TO PROTECT THE SEED BED.
   4.3. WATER AND MAINTAIN THE NEWLY SEEDED AREA AS NECESSARY UNTIL GROWTH IS FULLY ESTABLISHED AND APPROVED BY THE ENGINEER.

5. REMOVAL OF THE SEDIMENT CONTROLS:
   5.1. UPON ACCEPTANCE BY THE ENGINEER OF THE STABILITY OF THE AREA, REMOVE THE SEDIMENT CONTROL BARRIER.



DRAIN OUTLET REPLACEMENT AT WETLANDS



INSTALLATION NOTES FOR FIBER LOGS:

1. LAY THE FIBER LOG AT THE UPHILL BASE OF THE SILT FENCE.

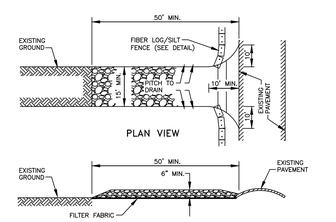
2. INSTALL APPROXIMATELY 4–6 WOOD STAKES PER 10 FEET OF FIBER LOG THROUGH THE TWINE/NETTING ALONG THE FIBER LOG AS NEEDED TO HOLD THE LOG IN PLACE.

3. DRIVE THE STAKE INTO THE GROUND DEEP ENOUGH TO HOLD THE LOG.

4. IN PAVED AREAS, SECURE FIBER LOG WITH CONCRETE BLOCKS OR SAND BAGS.

5. FIBER LOG SHALL BE 12 INCHES (MIN) IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS AND SHALL BE A COMPOST FILLED FILTER SOCK MEETING THE MUNICIPAL ENGINEERING DEPARTMENT STANDARDS.

FIBER LOG DETAIL
(NO SCALE)



CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE – USE 2" TO 4" WASHED, ANGULAR STONE

2. THICKNESS – NOT LESS THAN SIX (6) INCHES.

3. WIDTH – FIFTEEN (15) FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.

4. FILTER FABRIC – SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

5. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF WAY MUST BE REMOVED IMMEDIATELY.

6. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.

STABILIZED CONSTRUCTION ENTRANCE DETAIL
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KEY PLAN

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Date: 15 MAY 2020

Drawn By: KMR

Scale: AS NOTED

Revisions

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60% COST ESTIMATE SET

Erosion and Sediment Control Notes and Details

1.3.13

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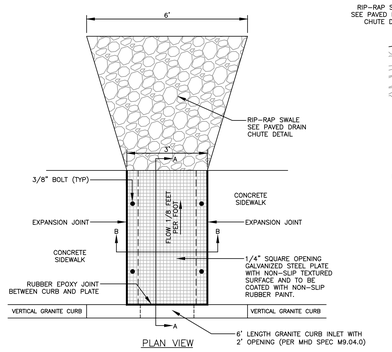
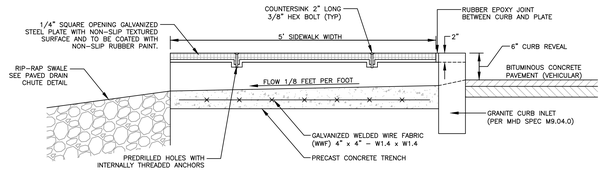
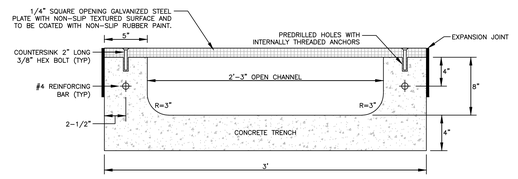


PLAN VIEW



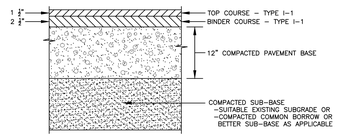
SECTION A–A



SECTION B–B

CURB STONE INLET

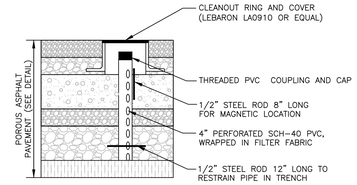
(NO SCALE)



NOTES:
1. COMPACTED PAVEMENT BASE TO CONFORM TO MASS. HIGHWAY DEPT. SPEC. M 2.01.7.
2. COMPACTED COMMON BORROW (SEE EARTHWORK SPECIFICATIONS). NO STONES LARGER THAN 6 INCHES.
3. BITUMINOUS CONCRETE SHALL BE CLASS 1, TYPE 1–1.
4. AT AREAS OF LEDGE/BEDROCK, REMOVE LEDGE TO A DEPTH OF 18 INCHES MINIMUM BELOW PAVEMENT COURSE.
5. COMPACTED PAVEMENT BASE TO EXTEND 12 INCHES MINIMUM BEYOND THE EDGE OF PAVEMENT.
6. TOP COURSE TO BE STANDARD BITUMINOUS TOP COURSE (SEE SPECIFICATIONS) EXCEPT IN AREAS DESIGNATED TO BE DENSE MIX TOP COURSE.

BITUMINOUS CONCRETE PAVEMENT (VEHICULAR)

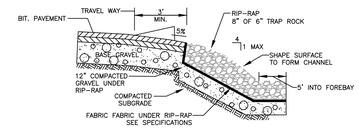
(NO SCALE)



OBSERVATION WELL AT POROUS ASPHALT PAVEMENT

(NO SCALE)

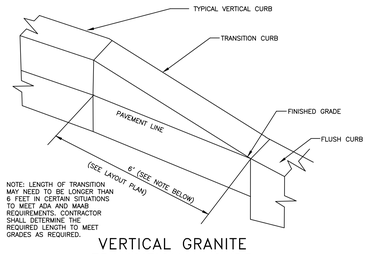
PLAN VIEW – CURBING AT BIT. CONC. PAVEMENT



PROFILE VIEW A–A

PAVED DRAIN CHUTE

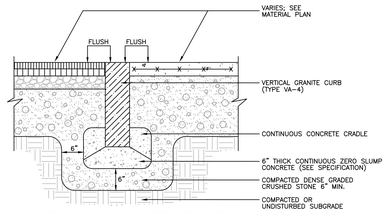
(NO SCALE)



NOTE: LENGTH OF TRANSITION MAY NEED TO BE LONGER THAN 6 FEET IN CERTAIN SITUATIONS TO MEET ADA AND MAAB REQUIREMENTS. CONTRACTOR SHALL DETERMINE THE REQUIRED LENGTH TO MEET GRADES AS REQUIRED.

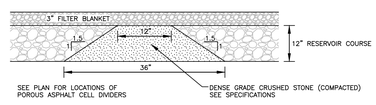
VERTICAL GRANITE TRANSITIONAL CURB

(NO SCALE)



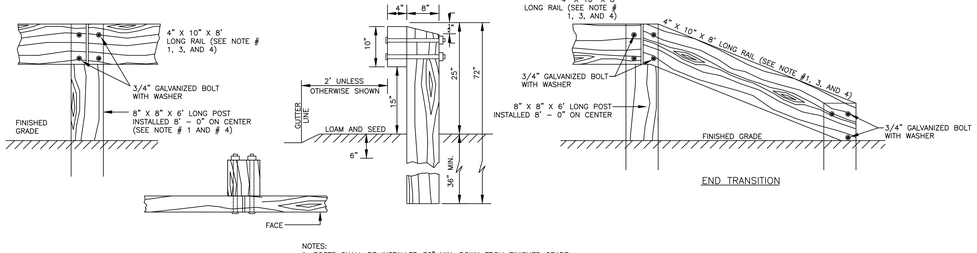
FLUSH GRANITE CURB

(NO SCALE)



POROUS ASPHALT PAVEMENT CELL DIVIDER

(NO SCALE)

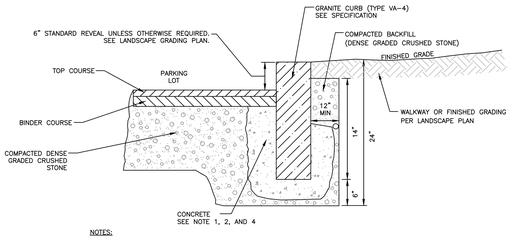


END TRANSITION

NOTES:
1. POSTS SHALL BE INSTALLED 36" MIN. DOWN FROM FINISHED GRADE.
2. REFLECTORS TO BE INSTALLED MIDWAY BETWEEN POST LOCATIONS.
3. ALL TIMBER MATERIAL SHALL BE SELECT STRUCTURAL DOUGLAS FIR OR SOUTHERN YELLOW PINE, PRESSURE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ).
4. ENDS OF GUARD RAILS HAVE A TRANSITION TO FINISHED GROUND LEVEL.

WOOD GUARD RAIL

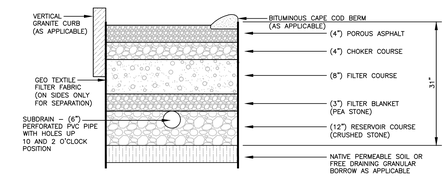
(NO SCALE)



NOTES:
1. CURB INSTALLATION ALONG EXISTING ROAD PAVEMENT SHALL BE SAW CUT AND PATCHED WITH A 2" BITUMINOUS GRADE BINDER COURSE, AND TOPPED WITH A 1–1/2" WEAR COURSE OF TYPE I–1. THE CUT JOINT SHALL BE THOROUGHLY SEALED WITH ASPHALT EMULSION AND SAND. TOP OF CURB SHALL BE 6" ABOVE GUTTER GRADE.
2. AT ALL LOCATIONS WHERE GRANITE CURBING IS PROPOSED, INCLUDING REPLACEMENT, THE CURB IS TO BE SET IN 6" THICK CONTINUOUS ZERO SLUMP CONCRETE.
3. GRANITE CURB INSTALLATION TO BE PER MHD SECTION 501 AND THE LATEST CITY STANDARDS.
4. CONCRETE TO BE AIR ENTRAINED CLASS D CONFORMING TO MHD M4.02.00.
5. GROUTING OF CURB JOINTS TO BE NON–SHRINK GROUTING CONFORMING TO ASTM C–827.

GRANITE CURB

(NO SCALE)



NOTES:
1. CHOKER COURSE: GRADED CRUSHED STONE (AASHTO NO. 57 STONE).
2. FILTER COURSE: POORLY GRADED SAND (MANUFACTURED) TO MEET NHDOT 304.1 WITH LESS THAN 4 PERCENT FINES.
3. FILTER BLANKET: 3/8" PEA GRAVEL.
4. RESERVOIR COURSE: 3/4" TO 2" WASHED STONE (AASHTO NO. 3).
5. EXCAVATION AND BACKFILL
   – ALL TOPSOIL, SUBSOIL AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED FROM WITHIN FIVE (5) FEET FROM ALL SIDES OF THE INFILTRATION SYSTEM AND TO A DEPTH OF SIX (6) INCHES BELOW THE SURFACE OF THE NATURAL SAND/GRAVEL SOIL (C HORIZON).
   – GRANULAR FILL: FILL MATERIAL BELOW THE BOTTOM OF THE SYSTEM AND WITHIN FIVE (5) FEET OF THE SIDES OF THE SYSTEM SHALL BE FREE DRAINING GRANULAR FILL CONSISTING OF CLEAN SANDY GRAVELLY MATERIAL FROM NATURAL ON–SITE SOIL, FREE FROM ORGANIC MATTER AND DELETERIOUS MATTER APPROVED BY THE ENGINEER OR IMPORTED SAND MATERIAL MEETING THE SPECIFICATIONS FOR FREE DRAINING GRANULAR FILL. FILL MATERIAL SHALL BE COMPACTED TO 90% DENSITY. THE CONTRACTOR SHALL REMOVE AND DELETERIOUS MATERIAL, AND/OR ANY COMPACTED SOIL, IF ANY, AND INSTALL FILL MATERIAL AS DESCRIBED ABOVE AND PER THIS DETAIL.

POROUS ASPHALT PAVEMENT

(NO SCALE)

AMESBURY ELEMENTARY SCHOOL

AMESBURY, MA

DINISCO DESIGN
architects + planners
99 Chauncy Street, Suite 901
Boston, MA 02111
(617) 426-2858

DGT Associates
Surveying & Engineers
1071 Worcester Road
Framingham, MA 01701
(508) 879-0030

Brown Sardina, Inc.
Landscape Architects
24 Roland Street
Boston, MA 02129
(617) 482-4703

Foley Buhl Roberts & Assoc., Inc.
Structural Engineers
2150 Washington Street
Newton, MA 02462
(617) 527-9600

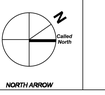
Crabtree McGrath Assoc., Inc.
Food Service Consultants
161 West Main Street
Georgetown, MA 01833
(978) 352-8500

VAV International, Inc.
Mechanical Engineers
400 West Cummings Park S. 4700
Woburn, MA 01801
(781) 935-7228

Thompson Engineering Company, Inc.
Electrical Engineers
89 Newbury Street, Suite 103
Danvers, MA 01923
(617) 866-9066

EdVance Technology Design, Inc.
Technology Consultants
300 Brickstone Square, Suite 201
Andover, MA 01880
(978) 256-9900

KEY PLAN



NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: KMR

Scale: AS NOTED

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Site Civil Details Sheet - 01

1.3.14

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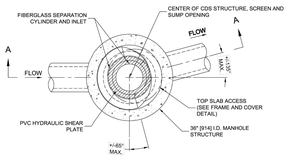
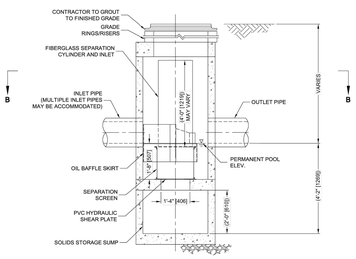
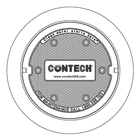
G:\Contract Jobs\1.25(96)\Correspondence\In Client\2020-05-08 60% Cost Estimate\1.25(96) – 60% COST ESTIMATE.dwg



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

CDS1515-3-C DESIGN NOTES

THE STANDARD CDS1515-3-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			
WATER QUALITY FLOW RATE (CFS OR L/s)			*
PEAK FLOW RATE (CFS OR L/s)			*
RETURN PERIOD OF PEAK FLOW (YRS)			*
SCREEN APERTURE (2400 OR 4700)			*
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	*	*	*
INLET PIPE 2	*	*	*
OUTLET PIPE	*	*	*
RIM ELEVATION			*
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
		*	*

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

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. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
4. STRUCTURE SHALL MEET AASHTO H20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', 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. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
6. CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

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 CDS 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.

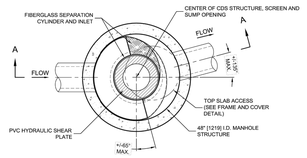
CONTECH ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr, Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CDS1515-3-C
ONLINE CDS
STANDARD DETAIL

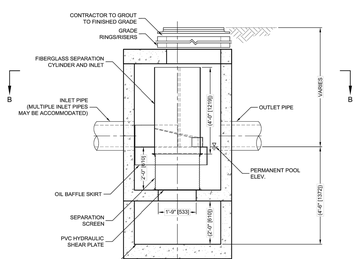
THIS DETAIL IS PROVIDED TO SHOW THE INTENT OF THE DESIGN. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND PROCESS FOR APPROVAL OF "EQUAL" PRODUCTS FOR THIS PURPOSE.
NOTE: SITE SPECIFIC REQUIREMENTS DETAILS SHOWN ABOVE.

STORMWATER TREATMENT UNIT (STU) DETAIL
(FOR STU #1, #5, #6, #7, AND #8)

(NO SCALE)



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.

CDS2015-4-C DESIGN NOTES

THE STANDARD CDS2015-4-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			
WATER QUALITY FLOW RATE (CFS OR L/s)			*
PEAK FLOW RATE (CFS OR L/s)			*
RETURN PERIOD OF PEAK FLOW (YRS)			*
SCREEN APERTURE (2400 OR 4700)			*
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	*	*	*
INLET PIPE 2	*	*	*
OUTLET PIPE	*	*	*
RIM ELEVATION			*
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
		*	*

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO H20 AND CASTINGS SHALL MEET H20 (AASHTO 14 390) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

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 CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
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.

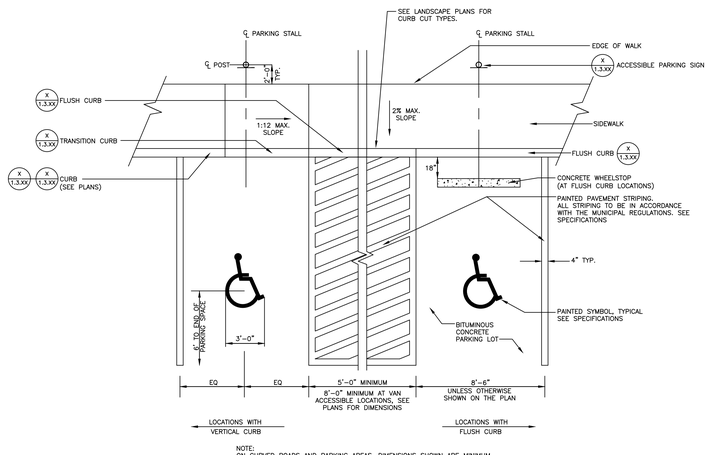
CONTECH ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr, Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CDS2015-4-C
INLINE CDS
STANDARD DETAIL

THIS DETAIL IS PROVIDED TO SHOW THE INTENT OF THE DESIGN. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND PROCESS FOR APPROVAL OF "EQUAL" PRODUCTS FOR THIS PURPOSE.
NOTE: SITE SPECIFIC REQUIREMENTS DETAILS SHOWN ABOVE.

STORMWATER TREATMENT UNIT (STU) DETAIL
(FOR STU #2, #3 AND STU #4)

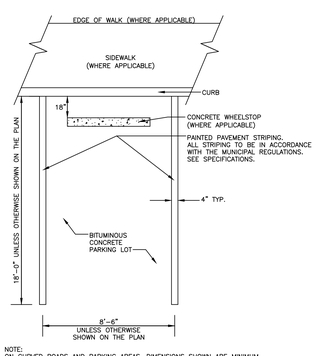
(NO SCALE)



NOTE:
ON CURVED ROADS AND PARKING AREAS, DIMENSIONS SHOWN ARE MINIMUM.

ACCESSIBLE PARKING STALL

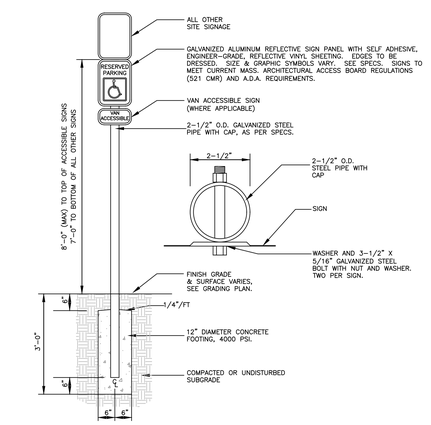
(NO SCALE)



NOTE:
ON CURVED ROADS AND PARKING AREAS, DIMENSIONS SHOWN ARE MINIMUM.

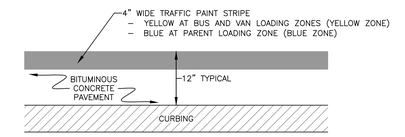
STANDARD PARKING STALL

(NO SCALE)



TYPICAL SIGN

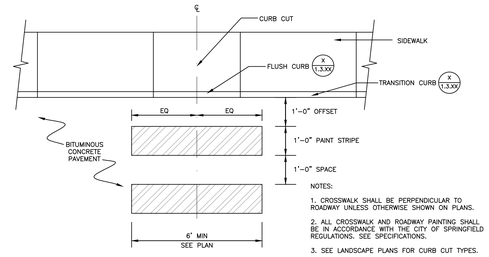
(NO SCALE)



NOTES:
1. PROTECT CURBING FROM PAINT SPRAY DURING PAINT APPLICATION PROCESS.
2. REMOVE ANY PAINT ON CURB AFTER PAINT STRIPE INSTALLATION.

LOADING / UNLOADING ZONE STRIPING

(NO SCALE)



NOTES:
1. CROSSWALK SHALL BE PERPENDICULAR TO ROADWAY UNLESS OTHERWISE SHOWN ON PLANS.
2. ALL CROSSWALK AND ROADWAY PAINTING SHALL BE IN ACCORDANCE WITH THE CITY OF SPRINGFIELD REGULATIONS. SEE SPECIFICATIONS.
3. SEE LANDSCAPE PLANS FOR CURB CUT TYPES.

PAINTED CROSSWALK

(NO SCALE)

AMESBURY ELEMENTARY SCHOOL

AMESBURY, MA

DINISCO DESIGN
architects + planners
99 Chauncy Street, Suite 901
Boston, MA 02111
(617) 426-2858

DGT Associates
Surveying & Engineers
1071 Worcester Road
Framingham, MA 01701
(508) 879-0030

Brown Sardina, Inc.
Landscape Architects
24 Roland Street
Boston, MA 02129
(617) 482-4703

Foley Buhl Roberts & Assoc., Inc.
Structural Engineers
2150 Washington Street
Newton, MA 02462
(617) 527-9600

Crabtree McGrath Assoc., Inc.
Food Service Consultants
161 West Main Street
Georgetown, MA 01833
(978) 352-8500

VAV International, Inc.
Mechanical Engineers
400 West Cummings Park S. 4700
Woburn, MA 01801
(781) 935-7228

Thompson Engineering Company, Inc.
Electrical Engineers
89 Newbury Street, Suite 103
Danvers, MA 01923
(617) 866-9066

EdVance Technology Design, Inc.
Technology Consultants
300 Brickstone Square, Suite 201
Andover, MA 01880
(978) 256-9900

KEY PLAN

NORTH ARROW

STAMP

Date: 15 MAY 2020

Drawn By: KMR

Scale: AS NOTED

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Site Civil Details
Sheet - 02

1.3.15

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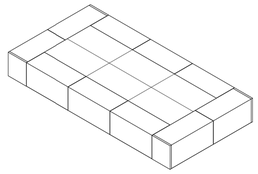
C:\USERS\CHOATE\APPDATA\ROAMING\AUTODESK\C3D 2014\ENU\SUPPORT\CDS2015-4-C-ITL.DWG 5/16/2014 4:16 PM
G:\Contech Jobs\25366\Correspondence\To Client\2020-05-06 CD 60% Cost Estimate\25366 - 60% COST ESTIMATE.dwg

StormTrap®
MODULAR CONCRETE
STORMWATER MANAGEMENT

THESE DRAWINGS ARE FOR YOUR REFERENCE ONLY AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES. THE STORMTRAP DRAWINGS SHALL NOT BE ALTERED OR MODIFIED IN ANY MANNER WHATSOEVER IN PART WITHOUT WRITTEN CONSENT OF STORMTRAP. USE OF THESE DRAWINGS IS STRICTLY GRANTED TO YOU, OUR CLIENT, FOR THE SPECIFIED AND NAMED PROJECT ONLY.



AMESBURY ELEMENTARY - Det 3 -7'-0" OPTION
AMESBURY , MA

SHEET INDEX

PAGE	DESCRIPTION
1.0	COVER SHEET
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2.0	SINGLETRAP SYSTEM LAYOUT
3.0	SINGLETRAP INSTALLATION SPECIFICATIONS
3.1	SINGLETRAP INSTALLATION SPECIFICATIONS
4.0	SINGLETRAP BACKFILL SPECIFICATIONS
4.1	SINGLETRAP FOUNDATION & ANCHORING SPECIFICATIONS
6.0	SPLASH PAD & GROWER DETAILS
7.0	SINGLETRAP MODULE TYPES

STORMTRAP CONTACT INFORMATION

STORM TRAP SUPPLIER: STORMTRAP
CONTACT NAME: PAUL GORDON
TOLL PHONE: 800-555-1258
SALES EMAIL: PGORDON@STORMTRAP.COM

StormTrap
PATENTS LISTED AT: (HTTP://STORMTRAP.COM/IPATENT)

1387 WINDHAM PARKWAY
ROMOVILLE, IL 60446
P (815-941-4544) / F (531-318-5347

ENGINEER INFORMATION:
DGT ASSOCIATES
1071 WORCESTER RD
FRAMINGHAM, MA
508-879-0030

PROJECT INFORMATION:
AMESBURY ELEMENTARY
DET 3
7'-0" OPTION
AMESBURY, MA

CURRENT ISSUE DATE: 2/4/2020
ISSUED FOR: PRELIMINARY

REV.	DATE:	ISSUED FOR:	DWN BY:
1	3/4/2020	PRELIMINARY	JM

SCALE: NTS
SHEET TITLE: COVER SHEET
SHEET NUMBER: **0.0**

STRUCTURAL DESIGN LOADING CRITERIA

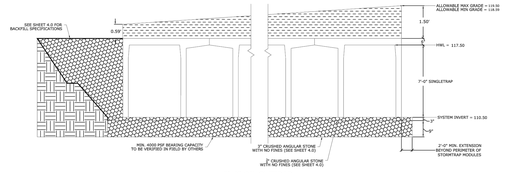
LIVE LOADING:	AASHTO HS-20 HIGHWAY LOADING
GROUND WATER TABLE:	BELOW INVERT OF SYSTEM
SOIL BEARING PRESSURE:	4000 PSF
SOIL DENSITY:	120 PCF
EQUIVALENT UNSATURATED LATERAL ACTIVE EARTH PRESSURE:	35 PSF / FT.
EQUIVALENT SATURATED LATERAL ACTIVE EARTH PRESSURE:	80 PSF/FT. (IF WATER TABLE PRESENT)
APPLICABLE CODES:	ASTM C857 ACI 318
BACKFILL TYPE:	SEE SHEET 4.0 FOR BACKFILL OPTIONS

STORMTRAP SYSTEM INFORMATION

WATER STORAGE PROV:	13,915.32 CUBIC FEET
WATER STORAGE PROV PER 1" STONE REDIRETED:	1,999.75 CUBIC FEET
TOTAL WATER STORAGE PROV:	13,911.67 CUBIC FEET
UNIT HEADROOM:	7'-0" SINGLETRAP
UNIT QUANTITY:	16 TOTAL PIECES

SITE SPECIFIC DESIGN CRITERIA

1. STORMTRAP UNITS SHALL BE MANUFACTURED AND INSTALLED ACCORDING TO SHOP DRAWINGS APPROVED BY THE INSTALLING CONTRACTOR AND ENGINEER OF RECORD. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET/ OUTLET PIPE TYPES, SIZES, INVERT ELEVATIONS AND SIZE OF OPENINGS.
2. COVER RANGE: MIN. 0.59' MAX. 1.50'CONSULT STORMTRAP FOR ADDITIONAL COVER OPTIONS.
3. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE REQUIRED TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO STORMTRAP INSTALLATION.
4. FOR STRUCTURAL CALCULATIONS THE GROUND WATER TABLE IS ASSUMED TO BE BELOW INVERT OF SYSTEM . IF WATER TABLE IS DIFFERENT THAN ASSUMED, CONTACT STORMTRAP.



7'-0" SINGLETRAP

StormTrap
PATENTS LISTED AT: (HTTP://STORMTRAP.COM/IPATENT)

1387 WINDHAM PARKWAY
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ENGINEER INFORMATION:
DGT ASSOCIATES
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FRAMINGHAM, MA
508-879-0030

PROJECT INFORMATION:
AMESBURY ELEMENTARY
DET 3
7'-0" OPTION
AMESBURY, MA

CURRENT ISSUE DATE: 2/4/2020
ISSUED FOR: PRELIMINARY

REV.	DATE:	ISSUED FOR:	DWN BY:
1	3/4/2020	PRELIMINARY	JM

SCALE: NTS
SHEET TITLE: SINGLETRAP DESIGN CRITERIA
SHEET NUMBER: **1.0**

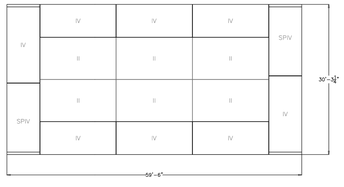
BILL OF MATERIALS

QTY	UNIT TYPE	DESCRIPTION	WEIGHT
3	I	7'-0" SINGLETRAP	18935
5	II	7'-0" SINGLETRAP	20134
5	III	7'-0" SINGLETRAP	20134
8	IV	7'-0" SINGLETRAP	22267
1	VIII	7'-0" SINGLETRAP	21779
2	SPIV	7'-0" SINGLETRAP	14459
4	PANEL	87" THICK PANELS	3727
3	JOINT TAPE	150' PER ROLL	
0	JOINT TAPE	16.5' PER ROLL	

LOADING DISCLAIMER:
STORMTRAP IS NOT DESIGNED TO ACCEPT ANY ADDITIONAL LOADINGS FROM NEARBY STRUCTURES NEXT TO OR OVER THE TOP OF STORMTRAP. IF ADDITIONAL LOADING CONSIDERATIONS ARE REQUIRED FOR STRUCTURAL DESIGN OF STORMTRAP, PLEASE CONTACT STORMTRAP IMMEDIATELY.

DESIGN CRITERIA
ALLOWABLE MAX GRADE = 119.50
ALLOWABLE MIN GRADE = 118.59
INSIDE HEIGHT ELEVATION = 117.50
SYSTEM INVERT = 110.50

NOTES:
1. DIMENSIONING OF STORMTRAP SYSTEM SHOWN BELOW ALLOW FOR A 3/4" GAP BETWEEN EACH MODULE.
2. ALL DIMENSIONS TO BE VERIFIED IN THE FIELD BY OTHERS.
3. SEE SHEET 3.0 FOR INSTALLATION SPECIFICATIONS.
4. 'IV' - INDICATES A MODULE WITH MODIFICATIONS.
5. 'F' - INDICATES A MODULE WITH A PANEL ATTACHMENT.
6. CONTRACTORS RESPONSIBILITY TO ENSURE CONSISTENCY/ACCURACY TO FINAL ENGINEER OF RECORD PLAN SET.



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AMESBURY ELEMENTARY
DET 3
7'-0" OPTION
AMESBURY, MA

CURRENT ISSUE DATE: 2/4/2020
ISSUED FOR: PRELIMINARY

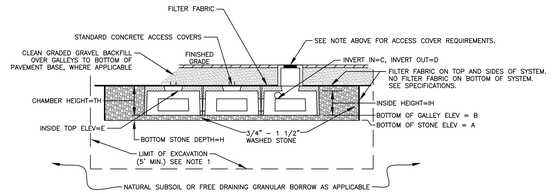
REV.	DATE:	ISSUED FOR:	DWN BY:
1	3/4/2020	PRELIMINARY	JM

SCALE: NTS
SHEET TITLE: SINGLETRAP LAYOUT DETAILS
SHEET NUMBER: **2.0**

THIS DETAIL IS PROVIDED TO SHOW THE INTENT OF THE DESIGN. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND PROCESS FOR APPROVAL OF "EQUAL" PRODUCTS FOR THIS PURPOSE.
NOTE: SITE SPECIFIC REQUIREMENTS DETAILS SHOWN ABOVE.

DETENTION SYSTEM #3 DETAILS

(NO SCALE)



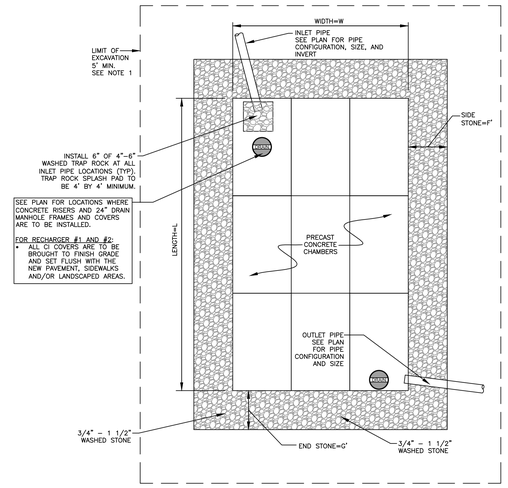
SYSTEM	A	B	C	D	E	F	G	H	L	W	TH	IH	MODEL FOR SIZING
RECHARGER #1	113.10	113.60	SEE PLAN	SEE PLAN	115.60	116.30	24"	24"	46'	28'	2'–8"	2'–0"	8' x 14' x 2'-0" GALLEY (CHAMBERS)
RECHARGER #2	113.00	113.50	SEE PLAN	SEE PLAN	115.50	116.30	24"	24"	74'	36'	2'–8"	2'–0"	8' x 14' x 2'-0" GALLEY (CHAMBERS)

GENERAL NOTES:

1. ALL TOPSOIL (A–HORIZON), SUBSOIL (B–HORIZON) AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED BELOW THE BOTTOM ELEVATION OF THE LEACHING GALLEY, AND TO A DISTANCE OF 5 FEET FROM ALL SIDES OF THE LEACHING GALLEY. EXCAVATE DOWN TO 6 INCHES BELOW THE SURFACE OF THE NATURAL PERMEABLE SOIL (C HORIZON). BACKFILL AS REQUIRED WITH FREE DRAINING GRANULAR BORROW, FREE FROM FINES, CLAY, ORGANIC MATTER, AND LARGE BOULDERS. SEE SPECIFICATIONS.
2. ALL WASHED STONE MUST HAVE LESS THAN 0.2 PERCENT MATERIAL FINER THAN A NUMBER 200 SIEVE AS DETERMINED BY THE A.A.S.H.T.O. TEST METHODS T–11 AND T–27 (LATEST EDITION).
3. CONCRETE CHAMBERS SHALL BE DESIGNED FOR H–20 LOADING.

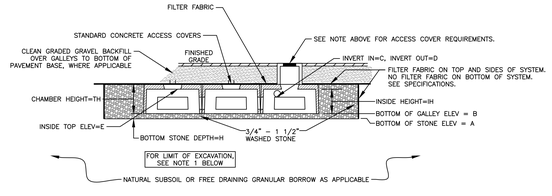
RECHARGER #1 = 3 ROWS OF 3 CHAMBERS (9 TOTAL) SEE PLAN FOR LAYOUT

RECHARGER #2 = 4 ROWS OF 5 CHAMBERS (20 TOTAL) SEE PLAN FOR LAYOUT



RECHARGER #1 AND #2 DETAIL

(NO SCALE)



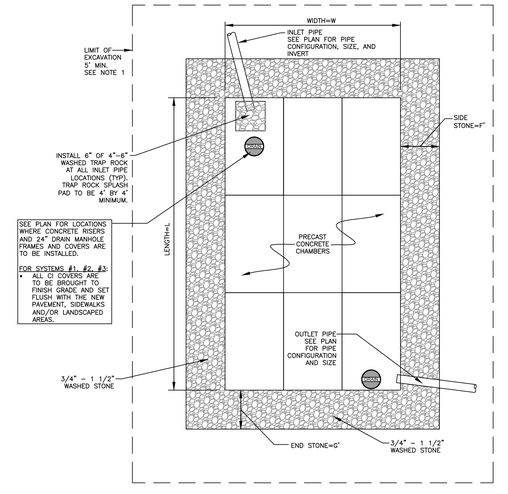
SYSTEM	A	B	C	D	E	F	G	H	L	W	TH	IH	MODEL FOR SIZING
DETENTION #1	111.10	111.60	SEE PLAN	SEE PLAN	115.60	116.30	24"	24"	60'	28'	4'–8"	4'–0"	8' x 14' x 2'-0" GALLEY (CHAMBERS)
DETENTION #2	111.00	111.50	SEE PLAN	SEE PLAN	115.50	116.10	24"	24"	74'	52'	4'–8"	4'–0"	8' x 14' x 2'-0" GALLEY (CHAMBERS)

GENERAL NOTES:

1. ALL TOPSOIL, SUBSOIL AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED TO THE HORIZONTAL AND VERTICAL (BOTTOM OF STONE ELEVATION) LIMITS OF THE DETENTION FACILITY.
2. ALL WASHED STONE MUST HAVE LESS THAN 0.2 PERCENT MATERIAL FINER THAN A NUMBER 200 SIEVE AS DETERMINED BY THE A.A.S.H.T.O. TEST METHODS T–11 AND T–27 (LATEST EDITION).
3. CONCRETE CHAMBERS SHALL BE DESIGNED FOR H–20 LOADING.

DETENTION #1 = 3 ROWS OF 4 CHAMBERS (12 TOTAL) SEE PLAN FOR LAYOUT

DETENTION #2 = 6 ROWS OF 5 CHAMBERS (30 TOTAL) SEE PLAN FOR LAYOUT



DETENTION SYSTEM #1 & #2 DETAIL

(NO SCALE)

AMESBURY ELEMENTARY SCHOOL

AMESBURY, MA

DINISCO DESIGN
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99 Chauncy Street, Suite 901
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(617) 482-4703

Foley Buhl Roberts & Assoc., Inc.
Structural Engineers
2150 Washington Street
Newton, MA 02462
(617) 527-9600

Crabtree McGrath Assoc., Inc.
Food Service Consultants
161 West Main Street
Georgetown, MA 01833
(978) 352-8500

VAV International, Inc.
Mechanical Engineers
400 West Cummings Park S. 4700
Woburn, MA 01801
(781) 935-7228

Thompson Engineering Company, Inc.
Electrical Engineers
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(617) 866-9066

EdVance Technology Design, Inc.
Technology Consultants
300 Brickstone Square, Suite 201
Andover, MA 01880
(978) 256-9900

KEY PLAN



NORTH ARROW ***STAMP***

Date: 15 MAY 2020

Drawn By: KMR

Scale: AS NOTED

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Site Civil Details
Sheet - 03

1.3.16

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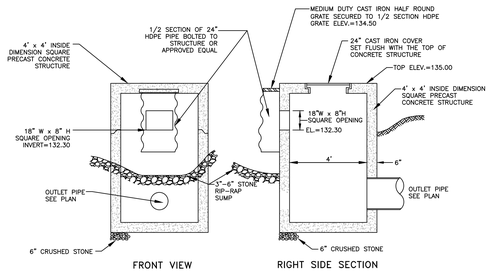
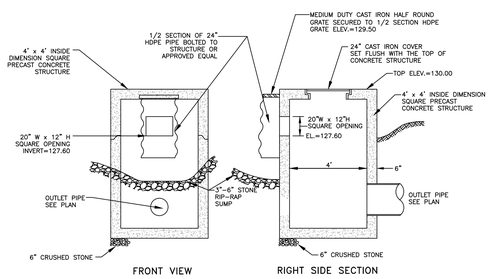


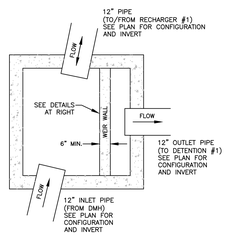
OUTLET CONTROL STRUCTURE #1 DETAIL

(NO SCALE)

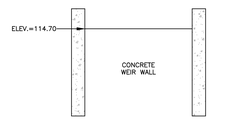


OUTLET CONTROL STRUCTURE #2 DETAIL

(NO SCALE)

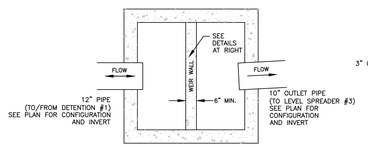


OCS #3 PLAN VIEW

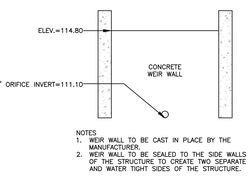


NOTES
1. WEIR WALL TO BE CAST IN PLACE BY THE MANUFACTURER.
2. WEIR WALL TO BE SEALED TO THE SIDE WALLS OF THE STRUCTURE TO CREATE TWO SEPARATE AND WATER TIGHT SIDES OF THE STRUCTURE.

OCS #3 WEIR WALL DETAIL

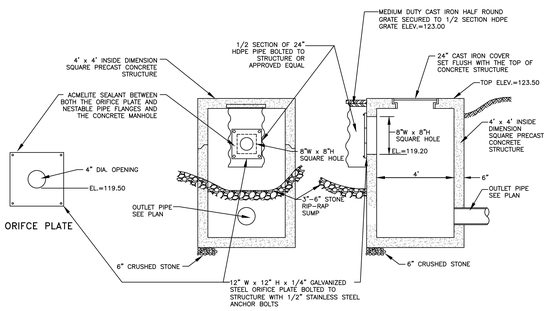


OCS #4 PLAN VIEW



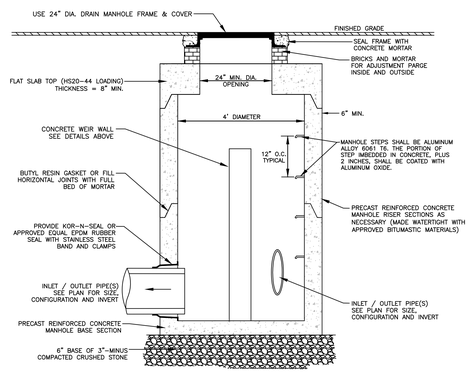
NOTES
1. WEIR WALL TO BE CAST IN PLACE BY THE MANUFACTURER.
2. WEIR WALL TO BE SEALED TO THE SIDE WALLS OF THE STRUCTURE TO CREATE TWO SEPARATE AND WATER TIGHT SIDES OF THE STRUCTURE.

OCS #4 WEIR WALL DETAIL



OUTLET CONTROL STRUCTURE #7 DETAIL

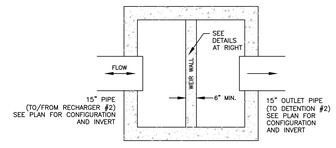
(NO SCALE)



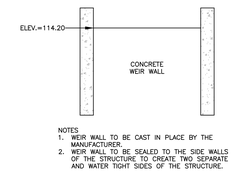
NOTES:
1. FOR OCS #3, #4, #5 AND #6, USE A 4 FT. X 4 FT. (INSIDE DIMENSIONS) SQUARE PRECAST CONCRETE MANHOLE. DIMENSIONS SHOWN HEREON ARE BASED ON A 4 FT. X 4 FT. SQUARE MANHOLE BY SHEA CONCRETE PRODUCTS.
2. MANHOLE CONNECTION TO PIPE SHALL BE BY MEANS OF A FLEXIBLE RUBBER SLEEVE OR MORTAR. PROJECT PIPE 1"-3" INTO MANHOLE.

OUTLET CONTROL STRUCTURE #3, #4, #5 and #6

(NO SCALE)



OCS #5 PLAN VIEW



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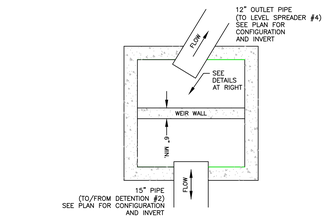
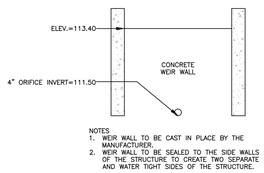
OCS #5 WEIR WALL DETAIL



OCS #6 PLAN VIEW



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OCS #6 WEIR WALL DETAIL

AMESBURY ELEMENTARY SCHOOL

AMESBURY, MA

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Framingham, MA 01701
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(617) 866-9066

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Technology Consultants
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(978) 256-9900

KEY PLAN

NORTH ARROW — STAMP

Date: 15 MAY 2020

Drawn By: KMR

Scale: AS NOTED

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Site Civil Details Sheet - 04

1.3.17

G:\Contracts Jobs\1252961\Correspondence\To Client\2020-05-08 CD 60% Cost Estimate\1252961 - 60% COST ESTIMATE.dwg

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MIX #1 – NEW ENGLAND WETLAND SEED MIX.

MIX #2 – NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS.

MIX #3 – NEW ENGLAND CONSERVATION/WILDLIFE MIX.

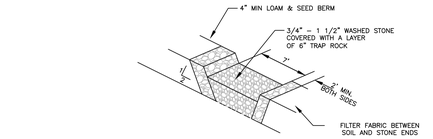
LAWN MIX

NOTE THAT THE ABOVE SEED MIXES IDENTIFIED FOR USE ON THIS PROJECT ARE BY NEW ENGLAND WETLANDS PLANTS, INC. AND INDICATE THE PLANT SPECIES MIX AND INTENT OF FINISHED COVER. SEED MIXES BY OTHER PRODUCERS MEETING THE INTENT OF THE LISTED MIXES MAY BE USED IF APPROVED AS EQUAL BY THE LANDSCAPE ARCHITECT.

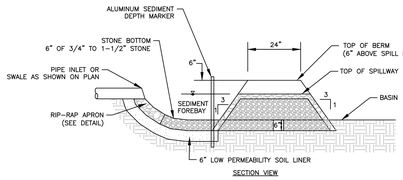
SEE LANDSCAPE SPECIFICATIONS FOR SEED MIXES IDENTIFIED ON THE LANDSCAPE DRAWINGS AS "LAWN".

SEED MIXES FOR STORMWATER MANAGEMENT FEATURES

(NO SCALE)



FILTER BERM OBLIQUE VIEW

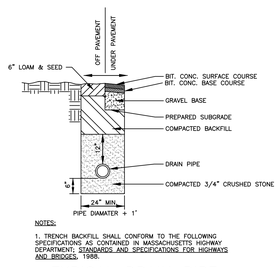


SECTION VIEW

NOTE: BANK OF FOREBAY AND FILTER BERM BEYOND THE LIMITS OF STONE SHALL BE LOAMED AND SEEDED.

SEDIMENT FOREBAY AND FILTER BERM

(NO SCALE)

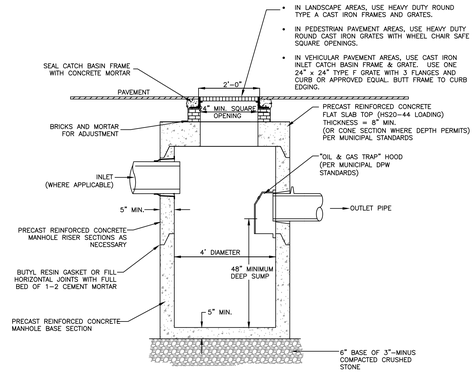


NOTES:

1. TRENCH BACKFILL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AS CONTAINED IN MASSACHUSETTS HIGHWAY DEPARTMENT: STANDARDS AND SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988.

TYPICAL DRAIN PIPE BEDDING DETAIL

(NO SCALE)

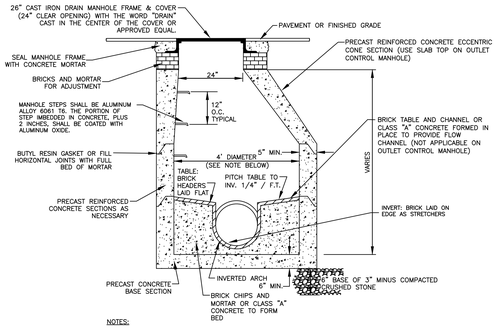


- IN LANDSCAPE AREAS, USE HEAVY DUTY ROUND TYPE A CAST IRON FRAMES AND GRATES.
- IN PEDESTRIAN PAVEMENT AREAS, USE HEAVY DUTY ROUND CAST IRON GRATES WITH WHEEL CHAIR SAFE SQUARE OPENINGS.
- IN VEHICULAR PAVEMENT AREAS, USE CAST IRON INLET CATCH BASIN FRAME & GRATE. USE ONE 24" x 24" TYPE F GRATE WITH 3 FLANGES AND CURB OR APPROVED EQUAL. BUTT FRAME TO CURB EDGING.

NOTE: SEE ALSO MUNICIPAL STANDARD

DEEP SUMP CATCH BASIN

(NO SCALE)

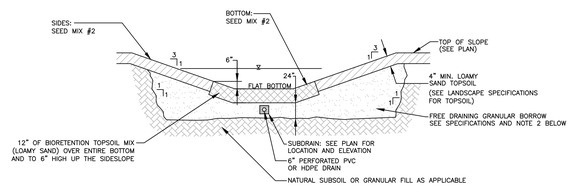


NOTES:

1. USE 5 FT. DIAMETER (OR LARGER WHERE NECESSARY) WHEN TOTAL INSIDE DEPTH EXCEEDS 12 FT. OR WHERE PIPE ARRANGEMENT WILL DAMAGE THE INTEGRITY OF THE MANHOLE SECTIONS.
2. MANHOLE CONNECTION TO PIPE SHALL BE BY MEANS OF A FLEXIBLE RUBBER SLEEVE OR MORTAR. PROJECT PIPE 1"–3" INTO MANHOLE.
3. THIS DETAIL TO ALSO BE USED FOR ALL ROOF DRAIN CLEANOUTS WHERE THE DRAIN IS 8 INCHES IN DIAMETER OR LARGER.

DRAIN MANHOLE DETAIL

(NO SCALE)

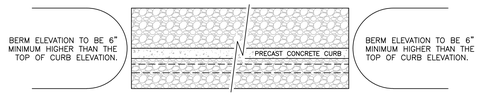


NOTES:

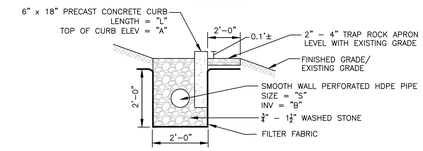
1. REMOVE EXISTING TOPSOIL AND SUBSOIL TO THE ELEVATION OF THE FINISHED SUBGRADE BELOW THE PROPOSED TOPSOIL. IF THE NATURAL MATERIAL MEETS THE REQUIREMENTS FOR "SAND" IN NOTE 2 BELOW, THE EXCAVATION IS NOT NECESSARY. OTHERWISE REMOVE THE UNSUITABLE SOIL TO THE DEPTHS SHOWN AND BACKFILL WITH THE MATERIAL PER NOTE 2.
2. FREE DRAINING GRANULAR BORROW SHALL CONSIST OF WELL DRAINING SOIL CONSISTING OF CLEAN SAND AND GRAVEL WITH LESS THAN 8% SILT AND CLAY WITH NOT MORE THAN 5 PERCENT CLAY. USDA TEXTURAL CLASS. ON-SITE SOIL MEETING THIS MAY BE USED. SEE EARTHWORK SPECIFICATIONS.
3. BIORETENTION TOPSOIL MIX SHALL BE A MIXTURE OF SAND, TOPSOIL AND COMPOST AS FOLLOWS: 40% SAND, 20% TO 30% TOPSOIL, 30% TO 40% COMPOST (BY VOLUME). SEE SPECIFICATIONS FOR FURTHER INFORMATION.
4. FOR TOPSOIL, ORGANIC CONTENT SEE LANDSCAPE SPECIFICATIONS.
5. SEE LANDSCAPE DRAWINGS FOR OTHER PLANTINGS.

BIORETENTION BASIN DETAIL

(NO SCALE)



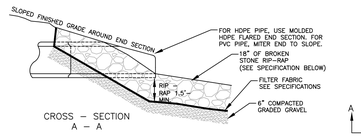
PLAN VIEW



STRUCTURE	L	S	A	B
LEVEL SPREADER #1	10'	8"	130.90	129.40
LEVEL SPREADER #2	15'	8"	123.00	121.50
LEVEL SPREADER #3	15'	8"	108.90	107.40
LEVEL SPREADER #4	30'	8"	109.90	108.40

LEVEL SPREADER DETAIL

(NO SCALE)



CROSS – SECTION
A – A

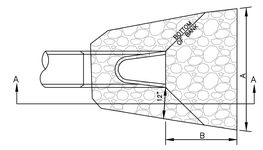
NOTE:

RIP–RAP SHALL CONSIST OF EVENLY GRADED 4" TO 10" ANGULAR BROKEN STONE, (AVG. STONE SIZE = 7") WITH A THICKNESS OF 18 INCHES. NOT MORE THAN 15 PERCENT OF THE STONE MAY BE SCATTERED SPALLS AND STONES LESS THAN 4" IN SIZE.

SIZE DESIGNATION REFERS TO MEAN SPHERICAL DIAMETER.

*LENGTH OF RIP–RAP TO BE PER THIS DETAIL UNLESS OTHERWISE SHOWN ON THE PLANS.

PIPE SIZE (IN.)	A (MIN.)	B* (MIN.) SEE PLAN
12" OR LESS	6'	5'
15"	10'	6'



PLAN VIEW

PIPE END SECTION WITH RIP – RAP APRON DETAIL

(NO SCALE)

AMESBURY ELEMENTARY SCHOOL

AMESBURY, MA

DINISCO DESIGN architects + planners

99 Chauncy Street, Suite 901
Boston, MA 02111
(617) 426-2858

DGT Associates
Surveying & Engineers
1071 Worcester Road
Framingham, MA 01701
(508) 879-0030

Brown Sardina, Inc.
Landscape Architects
24 Roland Street
Boston, MA 02129
(617) 482-4703

Foley Buhl Roberts & Assoc., Inc.
Structural Engineers
2150 Washington Street
Newton, MA 02462
(617) 527-9600

Crabtree McGrath Assoc., Inc.
Food Service Consultants
161 West Main Street
Georgetown, MA 01833
(978) 352-8500

VAV International, Inc.
Mechanical Engineers
400 West Cummings Park S. 4700
Woburn, MA 01801
(781) 935-7228

Thompson Engineering Company, Inc.
Electrical Engineers
89 Newbury Street, Suite 103
Danvers, MA 01923
(617) 866-9066

EdVance Technology Design, Inc.
Technology Consultants
300 Brickstone Square, Suite 201
Andover, MA 01880
(978) 256-9900

KEY PLAN



NORTH ARROW

STAMP

Date: 15 MAY 2020

Drawn By: KMR

Scale: AS NOTED

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Site Civil Details Sheet - 05

1.3.18

G:\Contract Jobs\1252961\Correspondence\To Client\2020-05-08 60% Cost Estimate\1252961 – 60% COST ESTIMATE.dwg

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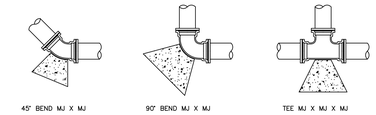
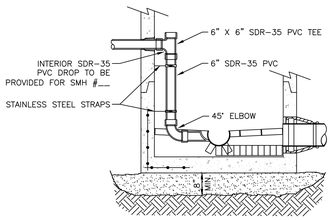


PIPE SIZE	MINIMUM SURFACE AREA (S.F.) OF CONCRETE AGAINST UNDISTURBED EARTH				
	11 1/4 d	22 1/2 d	45 d	90 d	TEE
4"	2.0	2.0	2.0	3.0	2.0
6"	2.0	2.0	2.0	3.0	3.0
8"	2.0	3.0	3.0	6.0	4.0
10"	2.0	3.0	5.0	9.0	6.0
12"	3.0	4.0	7.0	12.0	9.0

NOTE: PIPE FITTINGS SHALL BE AS MANUFACTURED BY U.S. PIPE SPEC. U501, U503, U505, U507, U509 OR APPROVED EQUAL CONCRETE SHALL BE 3000 PSI PORTLAND TYPE II CEMENT CONCRETE MEETING MDPW SPEC M4.02.00 et seq. AND SHALL BE PLACED SO AS TO NOT INTERFERE WITH THE JOINTS OF THE FITTING

TYPICAL THRUST BLOCK

(NO SCALE)

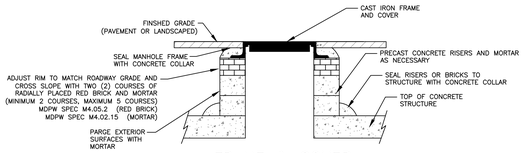


NOTE:

SEE (X / 3.XX) FOR SEWER MANHOLE DETAILS

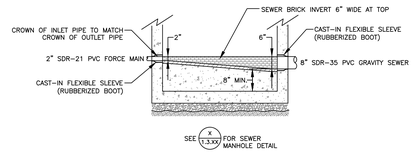
INTERIOR DROP SEWER DETAIL MANHOLE (SMH #__)

(NO SCALE)



FRAME & COVER INSTALLATION DETAIL

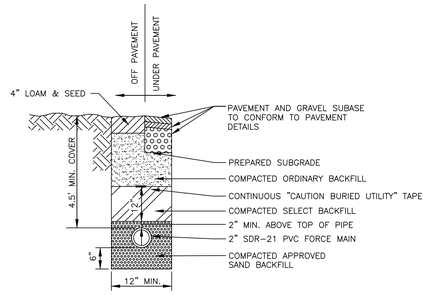
(NO SCALE)



SEE (X / 3.XX) FOR SEWER MANHOLE DETAIL

FORCE MAIN DISCHARGE MANHOLE (SMH #__)

(NO SCALE)



NOTES:

1. TRENCH BACKFILL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AS CONTAINED IN MASSACHUSETTS HIGHWAY DEPARTMENT; STANDARDS AND SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.

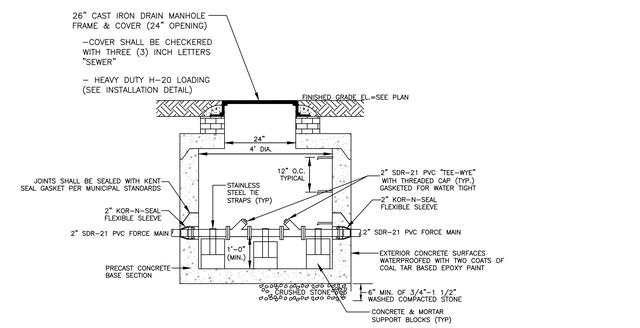
2. SAND BACKFILL FOR FORCE MAIN BEDDING SHALL CONFORM WITH M1.04.0 TYPE B "SAND BORROW".

3. SELECT BACKFILL SHALL BE ON-SITE SOIL OR IMPORTED BACKFILL CONFORMING WITH M.1.02.0 (a) "SPECIAL BORROW" WITH NO STONES LARGER THAN 3 INCHES.

4. ORDINARY BACKFILL SHALL CONSIST OF ON-SITE OR IMPORTED BACKFILL MEETING M1.01.0 WITH NO STONES LARGER THAN 6 INCHES.

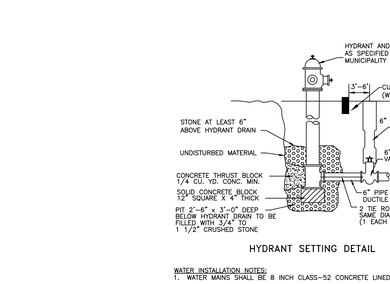
TYPICAL FORCE MAIN BEDDING DETAIL

(NO SCALE)

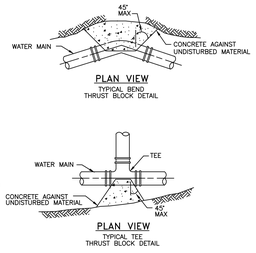


FORCE MAIN CLEANOUT MANHOLE

(NO SCALE)



HYDRANT SETTING DETAIL



WATER INSTALLATION NOTES:

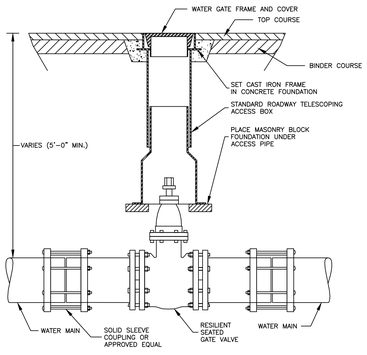
1. WATER MAINS SHALL BE 8 INCH CLASS-52 CONCRETE LINED DUCTILE IRON.

2. WATER MAIN INSTALLATION, HYDRANTS, GATES, CONNECTIONS, ETC., SHALL BE IN CONFORMANCE WITH THE CITY OF AMESBURY SPECIFICATIONS.

3. ALL FITTINGS SHALL BE RESTRAINED MECHANICAL JOINTS. ALL FITTINGS FOR THE HYDRANT CONNECTIONS SHALL BE RESTRAINED MECHANICAL JOINTS.

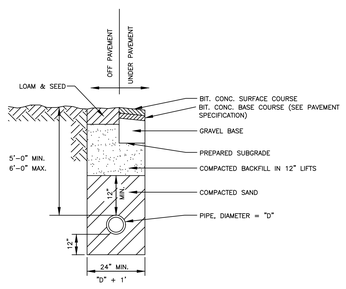
WATER MAIN INSTALLATION

(NO SCALE)



WATER GATE VALVE

(NO SCALE)



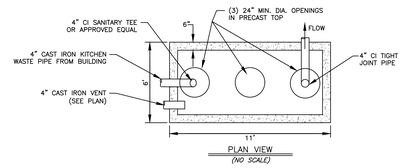
NOTES:

1. TRENCH BACKFILL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AS CONTAINED IN MASSACHUSETTS HIGHWAY DEPARTMENT; STANDARDS AND SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988.

2. BACKFILL MATERIALS TO MEET CITY OF AMESBURY STANDARDS.

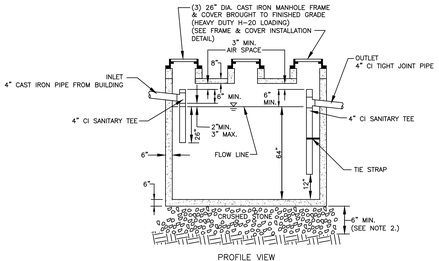
TYPICAL WATER PIPE BEDDING

(NO SCALE)



PLAN VIEW

(NO SCALE)



PROFILE VIEW

(NO SCALE)

NOTES:

1. IF SIDE INLETS OR OUTLETS ARE USED, SANITARY TEES MUST BE BROUGHT TO THE CENTERLINE OF THE TANK AND LOCATED WITHIN 12" OF THE ENDWALL. TEE(S) SHALL BE SECURED TO TOP OF TANK WITH STAINLESS STEEL STRAPS AND 1/4" LAG BOLTS OR EQUAL. UNUSED OUTLETS TO BE PLUGGED WITH MORTAR.

2. CRUSHED STONE SHALL MEET MHD M2.01.0 AND M2.01.1.

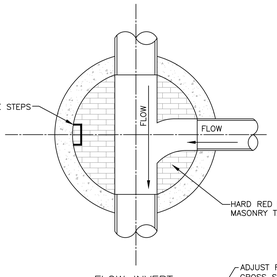
NOMINAL CAPACITY = 2,000 GALLONS
H-20 LOADING (MINIMUM)

3. DIMENSIONS SHOWN HERE ON ARE BASED ON SHEA CONCRETE PRODUCTS ITEM NO TK-2000G.

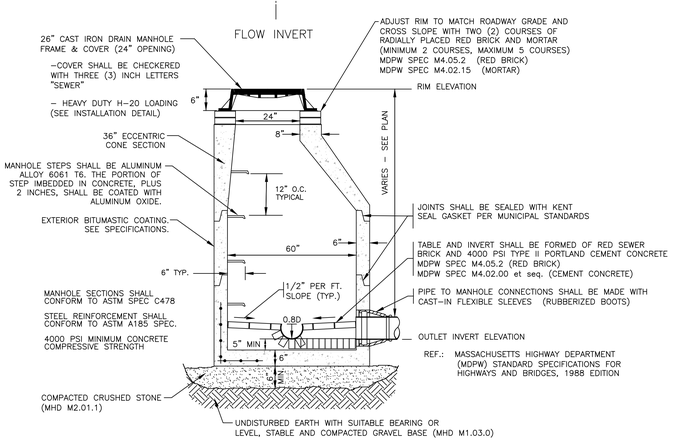
4. ALL PIPING FROM THE BUILDING TO THE GREASE TRAP, INCLUDING ALL PIPING AND TEES WITHIN THE GREASE TRAP, ARE BY THE PLUMBER.

2000 GALLON PRECAST CONCRETE SINGLE-COMPARTMENT GREASE TRAP

(NO SCALE)



FLOW INVERT



TYPICAL SEWER MANHOLE DETAIL

(NO SCALE)

AMESBURY ELEMENTARY SCHOOL

AMESBURY, MA

DINISCO DESIGN
architects + planners

99 Chauncy Street, Suite 901
Boston, MA 02111
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(508) 879-0030

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(617) 482-4703

Foley Buhl Roberts & Assoc., Inc.
Structural Engineers
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Newton, MA 02462
(617) 527-9600

Crabtree McGrath Assoc., Inc.
Food Service Consultants
161 West Main Street
Georgetown, MA 01833
(978) 352-8500

VAV International, Inc.
Mechanical Engineers
400 West Cummings Park S. 4700
Woburn, MA 01801
(781) 935-7228

Thompson Engineering Company, Inc.
Electrical Engineers
89 Newbury Street, Suite 103
Danvers, MA 01923
(617) 866-9066

EdVance Technology Design, Inc.
Technology Consultants
300 Brickstone Square, Suite 201
Andover, MA 01880
(978) 256-9900

KEY PLAN

NORTH ARROW (Called North) | STAMP

Date: 15 MAY 2020

Drawn By: KMR

Scale: AS NOTED

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Site Civil Details Sheet - 06

1.3.19

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G:\Carlson Jobs\ 25CW61 Correspondence\ 0_Client\ 2020-05-01 60% Cost Estimate\ 25CW6 - 60% COST ESTIMATE.dwg

DESIGN DATA - New Elementary School

FLOW CALCULATIONS

1.	BUILDING USE:	Elementary School with a Cafeteria and Gymnasium but No Showers
2.	NUMBER OF OCCUPANTS:	470 Students + 75 Staff = 545
3.	DESIGN FLOW – TITLE 5:	8 GPD/PERSON
4.	TOTAL DAILY FLOW – TITLE 5:	4,360 GALLONS

DESIGN DATA - Exisitng Cashman School

FLOW CALCULATIONS

1.	BUILDING USE:	Elementary School with a Cafeteria and Gymnasium but No Showers
2.	NUMBER OF OCCUPANTS:	450 Students + 75 Staff = 525
3.	DESIGN FLOW – TITLE 5:	8 GPD/PERSON
4.	TOTAL DAILY FLOW – TITLE 5:	4,200 GALLONS

OVERALL TOTAL DAILY FLOW – TITLE 5: 8,560 GALLONS

DESIGN DATA CALCULATIONS

1. GENERAL:
- 1.1. FURNISH AND INSTALL ONE COMPLETE PUMPING SYSTEM CONSISTING OF TWO SUBMERSIBLE SEWAGE EFFLUENT PUMPS AND MOTORS, DISCHARGE PIPING AND VALVES, MECHANICAL FLOAT SWITCH LEVEL CONTROLS, HIGH WATER ALARM, DUPLEX CONTROL PANEL AND A PRECAST CONCRETE DOSING CHAMBER.
- 1.2. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND WARRANTED FOR A PERIOD OF AT LEAST ONE YEAR.
- 1.3. UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL PROVIDE A SUFFICIENT QUANTITY OF CLEAN WATER TO CONDUCT TWO PUMP OPERATION TESTS FOR EACH PUMP UNDER THE DIRECTION AND SUPERVISION OF THE DESIGN ENGINEER.

2. PUMP CHAMBER:
- 2.1. PUMP CHAMBER SHALL BE A 6,500 GALLON PRECAST CONCRETE STRUCTURE.
- 2.2. CONSTRUCTION JOINTS AND OPENINGS SHALL BE SEALED WITH HYDRAULIC CEMENT, OR OTHERWISE MADE WATERTIGHT. THE EXTERIOR SURFACES SHALL BE WATERPROOFED WITH TWO COATS OF A COAL TAR BASED EPOXY PAINT, OR APPROVED EQUAL.
- 2.3. PUMP CHAMBER IS TO BE PRESSURE TESTED PER ASTM C-1227.
- 2.4. ONE (1) 30" X 48" ACCESS HATCH SHALL BE SET FLUSH WITH FINISH GRADE AND LOCATED DIRECTLY OVER THE PUMPS. THIS COVER SHALL BE MADE AIRTIGHT AND WATERTIGHT AND SHALL BE SECURED WITH A LOCKING MECHANISM TO PREVENT UNAUTHORIZED ACCESS.
- 2.5. TWO (2) 26-INCH DIAMETER OPENINGS SHALL BE SET FLUSH WITH FINISH GRADE AS LOCATED ON THE PLAN. THESE TWO (2) COVERS SHALL BE BOLTED CAST IRON MANHOLE FRAME AND COVERS TO PREVENT UNAUTHORIZED ACCESS. THESE COVERS SHALL HAVE A GASKETED SEAL TO MAKE THE COVER AIRTIGHT AND WATERTIGHT.

3. PUMPS AND MOTORS:
- 3.1. THE PUMPS AND MOTORS SHALL BE A HEAVY DUTY GRINDER SEWAGE-TYPE WITH A MINIMUM 2-INCH DISCHARGE. THE PUMPS AND MOTORS SHALL BE FULLY SUBMERSIBLE AND SHALL OPERATE AT 3450 RPM WITH A 200v, THREE PHASE AC POWER SOURCE. THE ELECTRICAL CONTRACTOR SHALL VERIFY THAT THE PROPER VOLTAGE IS AVAILABLE AT THE CONTROL PANEL.
- 3.2. USE TWO BARNES GGP2062L GRINDER PUMPS, OR AN EQUIVALENT APPROVED BY THE ENGINEER. THE PUMP SHALL BE RATED AS FOLLOWS:
  - HORSEPOWER: 2.0
  - 29.5 GALLONS PER MINUTE
  - 19.0 FEET, TOTAL DYNAMIC HEAD

4. LEVEL CONTROLS:
- 4.1. SEALED PRESSURE SWITCHES SHALL BE SUPPLIED TO CONTROL THE SUMP LEVEL, ALARM SIGNAL, AND LAG PUMP ON. TWO PRESSURE SWITCHES SHALL BE USED TO CONTROL THE SUMP LEVEL; ONE FOR PUMP "OFF" AND ONE FOR PUMP "ON". A THIRD SWITCH SHALL BE PROVIDED TO CONTROL THE LAG PUMP ON IN THE EVENT THAT THE LEAD PUMP DOES NOT OPERATE. A FOURTH SWITCH SHALL BE PROVIDED WITH A POWER SOURCE SEPARATE FROM THE PUMP POWER AND SHALL BE FOR THE ALARM UNIT.
- 4.2. A NEMA-4 JUNCTION BOX FOR THE FLOAT SWITCHES SHALL BE INSTALLED ABOVE THE HIGH WATER LEVEL.
- 4.3. THE FLOAT LEVEL CONTROLS SHALL BE SET TO OPERATE AT THE ELEVATIONS INDICATED ON THE PLANS.

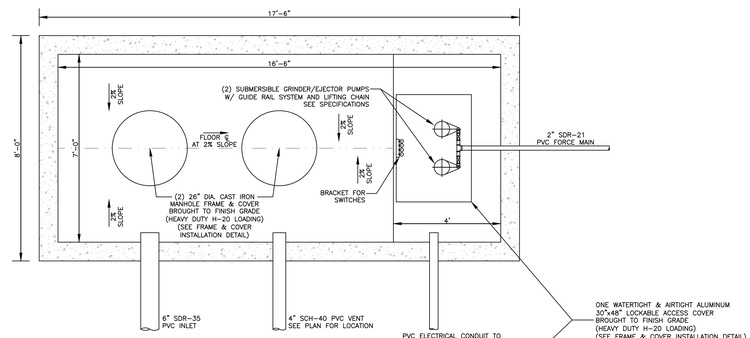
5. CONTROL PANEL:
- 5.1. THE DUPLEX CONTROL PANEL SHALL BE EQUIPPED WITH A RUN LIGHT FOR EACH PUMP, PROPERLY SIZED CIRCUIT BREAKERS, A TRANSFORMER TO GIVE PROPER VOLTAGE TO THE CONTROL CIRCUITS AND ONE THREE-WAY PUMP CONTROL SWITCH. THE SWITCH POSITIONS ARE AS FOLLOWS: 1) MANUAL PUMP ON, 2) PUMP OFF, 3) AUTOMATIC.
- 5.2. AN ALTERNATOR RELAY SHALL BE PROVIDED IN THE DUPLEX CONTROL PANEL TO ALTERNATE THE OPERATION OF THE PUMPS EACH TIME THE "PUMP ON" SWITCH IS ACTIVATED.
- 5.3. THE DUPLEX CONTROL PANEL SHALL BE FOR A 200v, THREE PHASE AC POWER SUPPLY AND HOUSED IN A NEMA-4 ENCLOSURE.
- 5.4. THE CONTROL PANEL SHALL BE INSTALLED ON A PEDESTAL IN THE LOCATION SHOWN ON THIS PLAN.

6. ALARM:
- 6.1. A HIGH WATER ALARM SHALL BE SUPPLIED WITH BOTH AN AUDIBLE AND VISUAL ALARM WITH A POWER SUPPLY SEPARATE FROM THE PUMP. THE ALARM SHALL BE MOUNTED IN A NEMA-4 ENCLOSURE. AN ALARM SILENCER BUTTON SHALL BE PROVIDED TO SILENCE THE AUDIBLE ALARM WHILE THE VISUAL REMAINS ILLUMINATED UNTIL MANUALLY RESET.
- 6.2. THIS AUDIBLE AND VISUAL ALARM SHALL BE LOCATED ADJACENT TO THE CONTROL PANEL ON THE PEDESTAL.

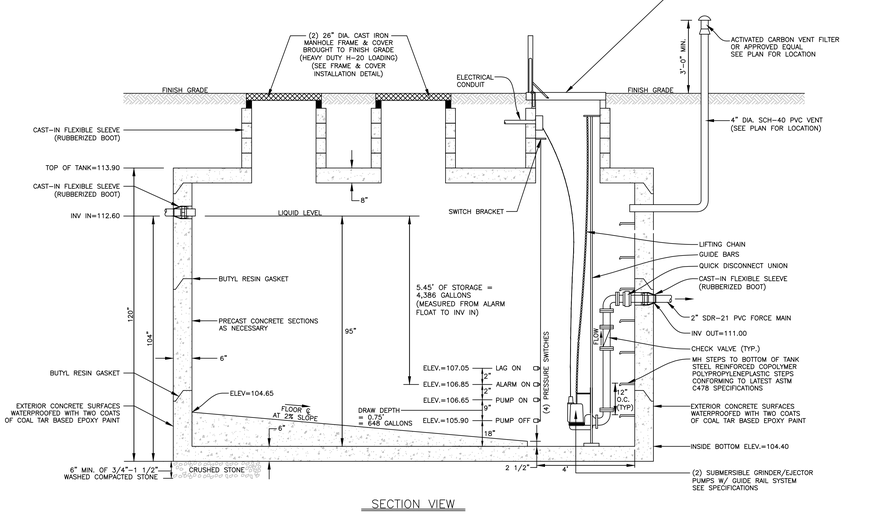
7. PIPING:
- 7.1. THE PUMP STATION DISCHARGE PIPING AND FITTINGS SHALL BE 2-INCH SCH-40 PVC WITHIN THE PUMP CHAMBER TO INCLUDE THE FOLLOWING FOR EACH PUMP: IN THE VERTICAL POSITION: A 2-INCH BALL-TYPE CHECK VALVE; IN THE HORIZONTAL POSITION: A 2-INCH QUICK DISCONNECT PIPING AND VALVES SHALL BE ARRANGED SO THAT THEY ARE EASILY ACCESSIBLE FROM THE PUMP CHAMBER ACCESS HATCH.
- 7.2. THE FORCE MAIN PIPING SHALL BE 2-INCH SDR-21 PVC PIPE WITH BELL AND SPIGOT JOINTS, AND SHALL BE LAID AS SHOWN IN THE BEDDING DETAIL. THE FORCE MAIN SHALL DISCHARGE INTO THE PRESSURE DISTRIBUTION MANIFOLD. THE FORCE MAIN PIPING INSTALLATION SHALL BE DEMONSTRATED TO BE WATER TIGHT BY PRESSURE TESTING MAINTAINED FOR TWO (2) HOURS.
- 7.3. ALL PIPING OUTSIDE THE PUMP CHAMBER WHICH IS LESS THAN FOUR (4) FEET BELOW FINISHED GRADE SHALL BE SURROUNDED WITH A MINIMUM OF TWO-INCHES OF RIGID STYROFOAM INSULATION.

8. DOSING REQUIREMENTS:
- 8.1. THE SYSTEM HAS BEEN DESIGNED TO PROVIDE DOSES EQUAL TO 648 GALLONS PER DOSE.
- 8.2. ADDITIONAL STORAGE PROVIDED IN THE PUMP STATION, ABOVE THE HIGH WATER ALARM LEVEL IS APPROXIMATELY 4,708 GALLONS. IN THE EVENT OF A POWER FAILURE, THIS IS SUFFICIENT CAPACITY TO PROVIDE FOR 24 HOURS OF STORAGE.

DUPLEX PUMP SYSTEM AND PUMP STATION SPECIFICATIONS



PLAN VIEW



SECTION VIEW

DIMENSIONS SHOWN ARE BASED ON
SHEA CONCRETE PRODUCTS 6,500 GALLON COMMERCIAL LINE TANK
ITEM NO. 8X17-65 (OR APPROVED EQUAL)

SEWER PUMP STATION DETAIL

(NO SCALE)

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KEY PLAN

N Called North

NORTH ARROW *STAMP*

Date: 15 MAY 2020

Drawn By: KMR

Scale: AS NOTED

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Site Civil Details
Sheet - 07

1.3.20

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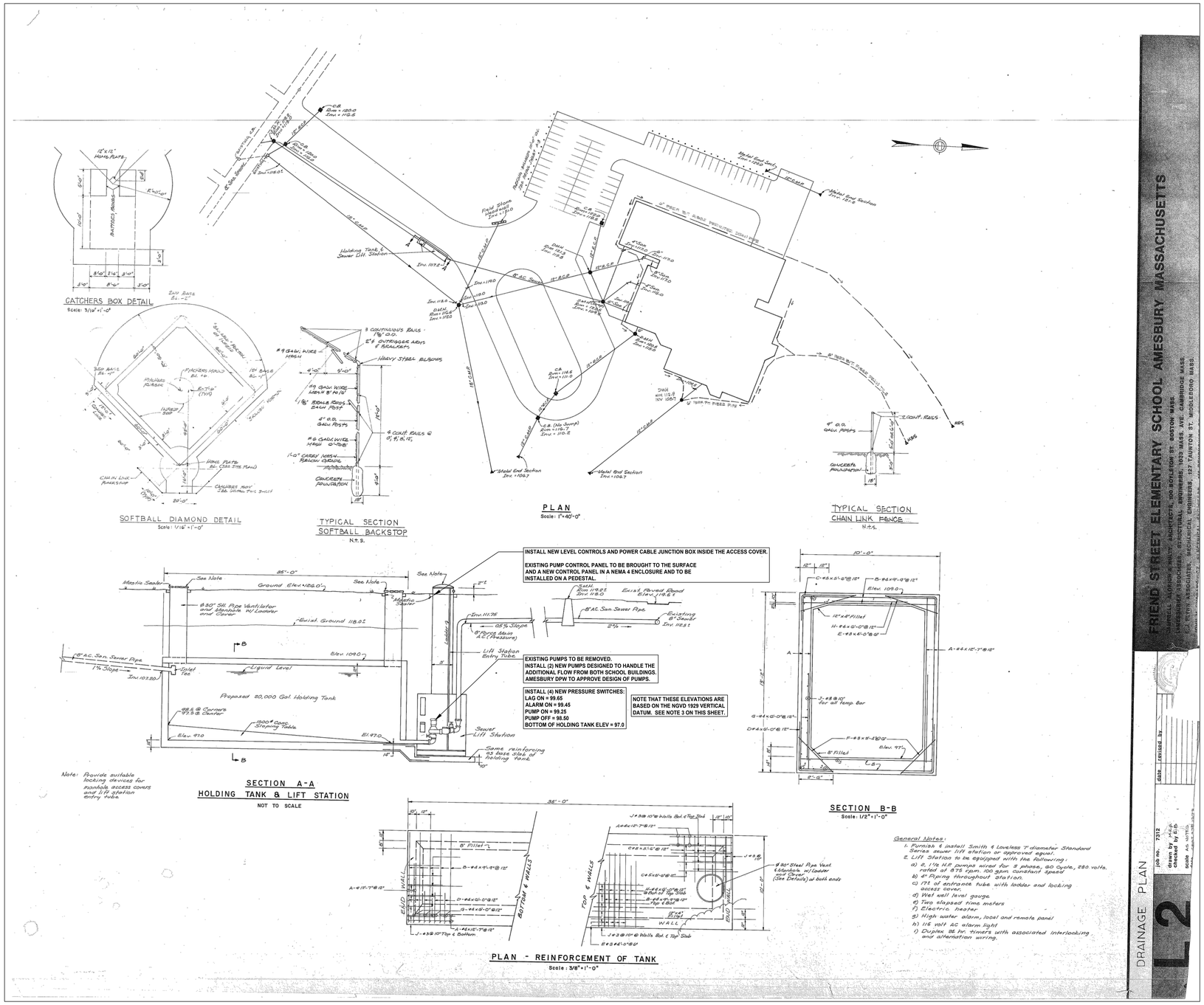
G:\Carlson Jobs\1.25286\Correspondence\1a Client\1.29.20-02-06 60% Cost Estimate\1.25286 - 60% COST ESTIMATE.dwg



EXISTING HOLDING TANK & LIFT STATION DETAILS

SOURCE: 1973 RECORD PLANS FOR THE CASHMAN ELEMENTARY SCHOOL
(NO SCALE)

NOTE:
1. THE PLAN SHOWN ON THIS SHEET IS FROM THE 1972 PLAN SET FOR THE FRIEND STREET ELEMENTARY SCHOOL (NOW NAMED THE CASHMAN ELEMENTARY SCHOOL). THIS IS INTENDED TO SHOW THE AVAILABLE INFORMATION ON THE EXISTING SEWER PUMPING STATION. NOTE THAT THIS IS NOT AN AS-BUILT DRAWING AND ACTUAL FIELD CONDITIONS MAY DIFFER.
2. NOTES ADDED TO THIS DRAWING FOR THE NEW WORK ARE SHOWN IN BOLD TEXT.
3. THE ELEVATIONS ON THIS SHEET ARE ON THE NGVD 1929 VERTICAL DATUM. TO CONVERT TO THE APPROXIMATE CURRENT PROJECT VERTICAL DATUM (NAVD 1988), SUBTRACT 0.8 FEET. CONTRACTOR TO CONFIRM ALL ELEVATIONS PRIOR TO ANY WORK ON THIS PUMP STATION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: KMR

Scale: AS NOTED

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Site Civil Details
Sheet - 08

1.3.21

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PLANTING LEGEND

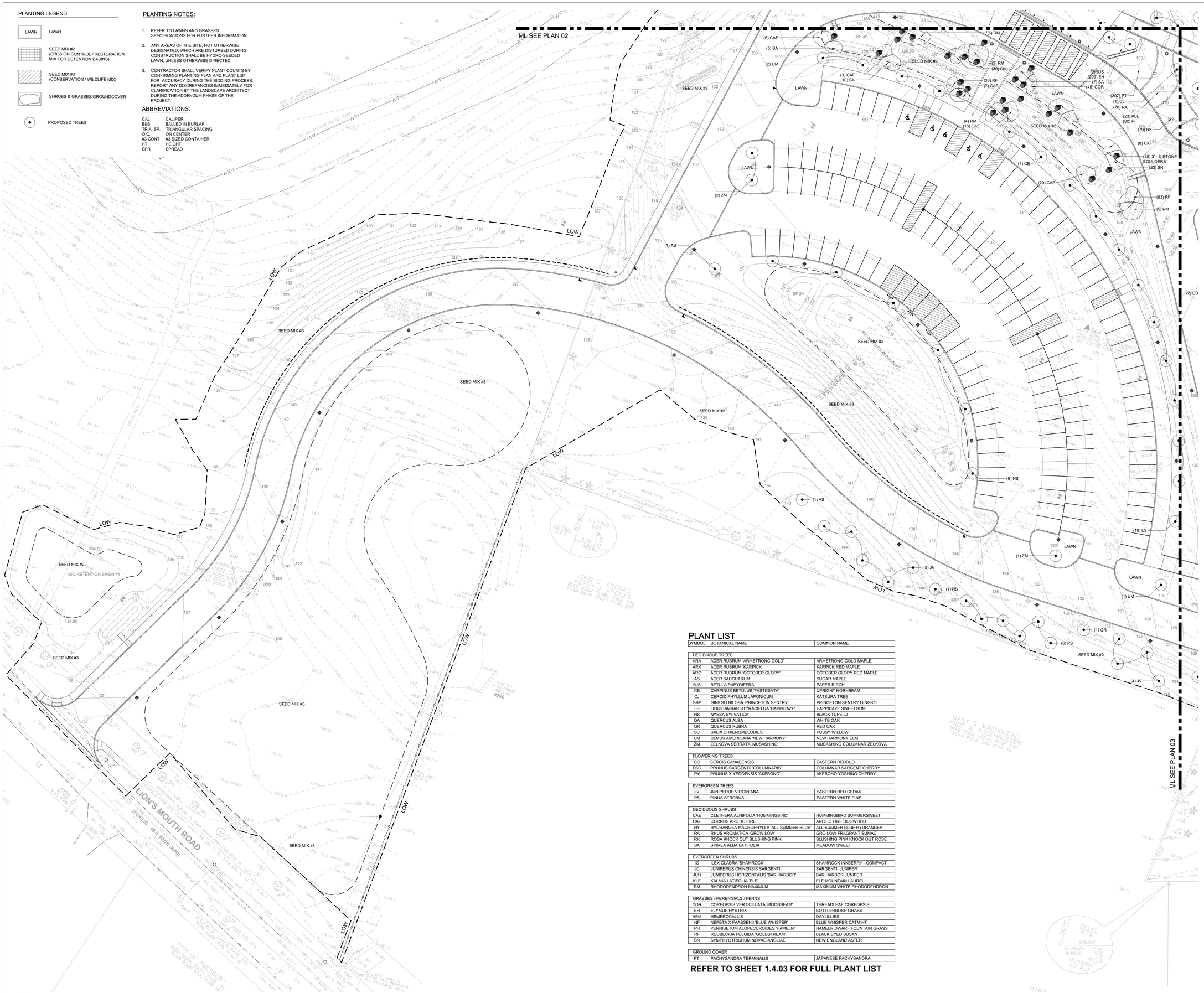
- LAWN — LAWN
- SEED MIX #2 (EROSION CONTROL / RESTORATION MIX FOR DETENTION BASINS)
- SEED MIX #3 (CONSERVATION / WILDLIFE MIX)
- SHRUBS & GRASSES/GROUNDCOVER
- PROPOSED TREES

PLANTING NOTES:

1. REFER TO LAWNS AND GRASSES SPECIFICATIONS FOR FURTHER INFORMATION.
2. ANY AREAS OF THE SITE, NOT OTHERWISE DESIGNATED, WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE HYDRO-SEEDED LAWN, UNLESS OTHERWISE DIRECTED.
3. CONTRACTOR SHALL VERIFY PLANT COUNTS BY CONFIRMING PLANTING PLAN AND PLANT LIST FOR ACCURACY DURING THE BIDDING PROCESS. REPORT ANY DISCREPANCIES IMMEDIATELY FOR CLARIFICATION BY THE LANDSCAPE ARCHITECT DURING THE ADDENDUM PHASE OF THE PROJECT.

ABBREVIATIONS:

CAL	CALIPER
B&B	BALLED IN BURLAP
TRIA. SP.	TRIANGULAR SPACING
O.C.	ON CENTER
#3 CONT	#3 SIZED CONTAINER
HT	HEIGHT
SPR	SPREAD



PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME
DECIDUOUS TREES		
ARA	ACER RUBRUM 'ARMSTRONG GOLD'	ARMSTRONG GOLD MAPLE
ARK	ACER RUBRUM 'KARPICK'	KARPICK RED MAPLE
ARO	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE
AS	ACER SACCHARUM	SUGAR MAPLE
BJS	BETULA PAPYRIFERA	PAPER BIRCH
CB	CARPINUS BETULUS 'FASTIGIATA'	UPRIGHT HORNBEAM
CJ	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE
GBP	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY GINGKO
LS	LIQUIDAMBAR STYRACIFLUA 'HAPPIDAZE'	HAPPIDAZE SWEETGUM
NS	NYSSA SYLVATICA	BLACK TUPELO
QA	QUERCUS ALBA	WHITE OAK
QR	QUERCUS RUBRA	RED OAK
SC	SALIX CHAENOMELOIDES	PUSSY WILLOW
UM	ULMUS AMERICANA 'NEW HARMONY'	NEW HARMONY ELM
ZM	ZELKOVA SERRATA 'MUSASHINO'	MUSASHINO COLUMNAR ZELKOVA
FLOWERING TREES		
CC	CERCIS CANADENSIS	EASTERN REDBUD
PSC	PRUNUS SARGENTII 'COLUMNARIS'	COLUMNAR SARGENT CHERRY
PY	PRUNUS X YEDOENSIS 'AKEBONO'	AKEBONO YOSHINO CHERRY
EVERGREEN TREES		
JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR
PS	PINUS STROBUS	EASTERN WHITE PINE
DECIDUOUS SHRUBS		
CAE	CLETHERA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET
CAF	CORNUS ARCTIC FIRE	ARCTIC FIRE DOGWOOD
HY	HYDRANGEA MACROPHYLLA 'ALL SUMMER BLUE'	ALL SUMMER BLUE HYDRANGEA
RA	RHUS AROMATICA 'GROW LOW'	GRO-LOW FRAGRANT SUMAC
RK	ROSA KNOCK OUT BLUSHING PINK	BLUSHING PINK KNOCK OUT ROSE
SA	SPIREA ALBA LATIFOLIA	MEADOW SWEET
EVERGREEN SHRUBS		
IG	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY - COMPACT
JC	JUNIPERUS CHINENSIS SARGENTII	SARGENTII JUNIPER
JUH	JUNIPERUS HORIZONTALIS 'BAR HARBOR'	BAR HARBOR JUNIPER
KLE	KALMIA LATIFOLIA 'ELF'	ELF MOUNTAIN LAUREL
RM	RHODODENDRON MAXIMUM	MAXIMUM WHITE RHODODENDRON
GRASSES / PERENNIALS / FERNS		
COR	COREOPSIS VERTICILLATA 'MOONBEAM'	THREADLEAF COREOPSIS
EH	ELYMUS HYSTRIX	BOTTLEBRUSH GRASS
HEM	HEMEROCALLIS	DAYLILLIES
NF	NEPETA X FAASSENII 'BLUE WHISPER'	BLUE WHISPER CATMINT
PH	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN DWARF FOUNTAIN GRASS
RF	RUDBECKIA FULGIDA 'GOLDSTREAM'	BLACK EYED SUSAN
SN	SYMPHYOTRICHUM NOVAE-ANGLIAE	NEW ENGLAND ASTER
GROUND COVER		
PT	PACHYSANDRA TERMINALIS	JAPANESE PACHYSANDRA

REFER TO SHEET 1.4.03 FOR FULL PLANT LIST

1 / 1.4.01 PARTIAL PLANTING PLAN - 01
SCALE: 1" - 20'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020
Drawn By: BDB
Scale: 0 20 40

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Partial Planting Plan - 01

1.4.01

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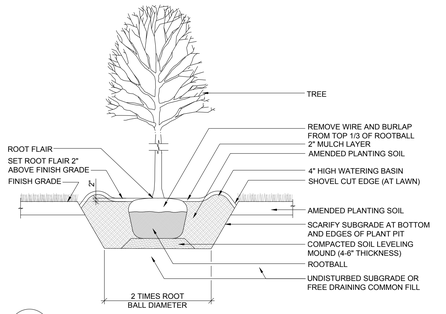
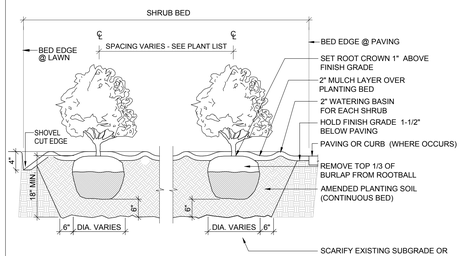


2 / 1.4.02 DECIDUOUS TREE PLANTING

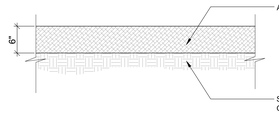
SCALE: N.T.S

NOTE: ROOTBALL DEPTHS VARY BY PLANT SIZE - SEE PLANT LIST



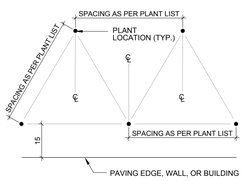
3 / 1.4.02 SHRUB PLANTING

SCALE: N.T.S



4 / 1.4.02 SOIL PREPARATION AT LAWN AREAS

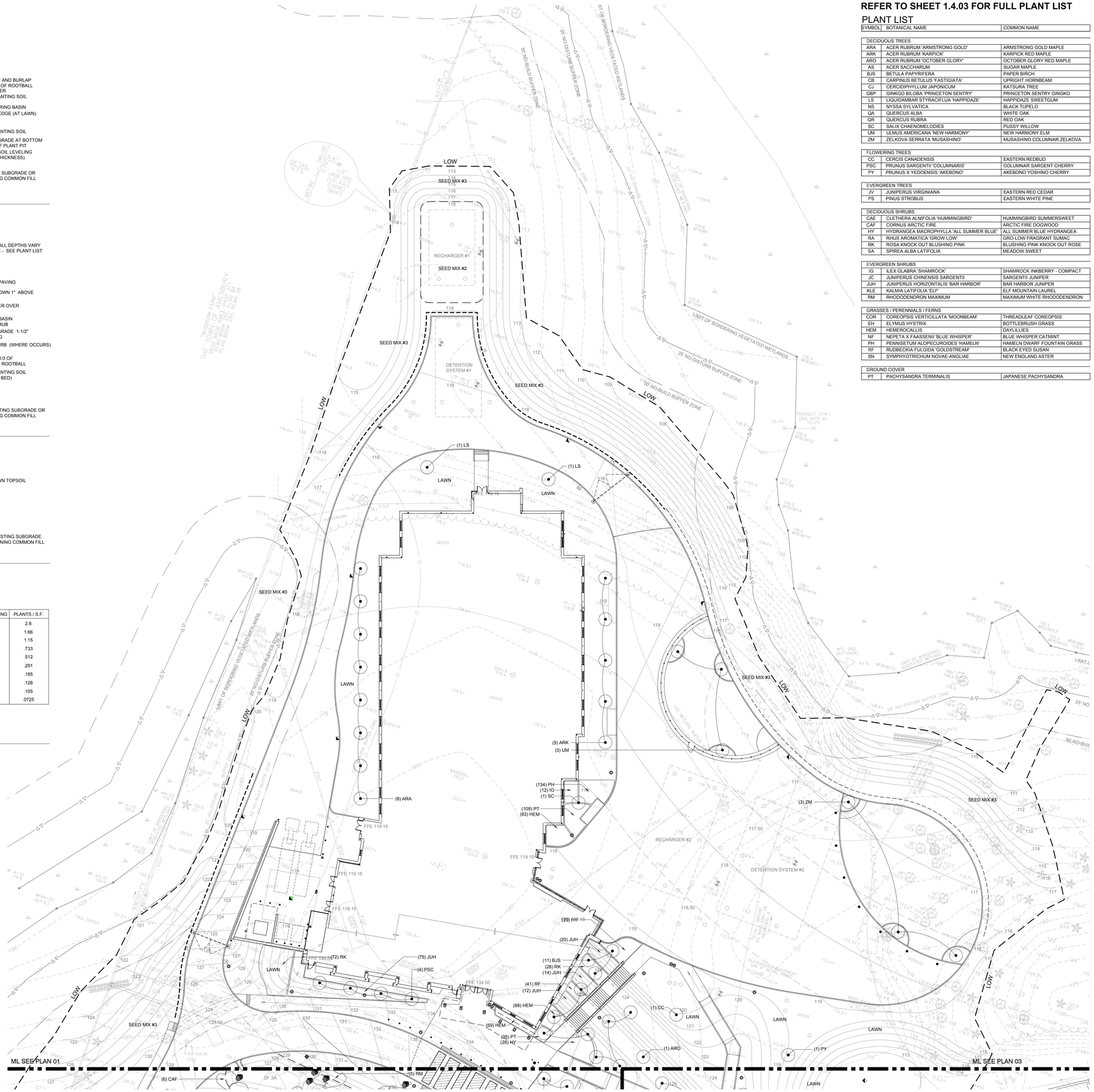
SCALE: 1" = 1'-0"



PLANT SPACING	PLANTS / S.F.
8" O.C.	2.6
10" O.C.	1.66
12" O.C.	1.15
15" O.C.	.733
18" O.C.	.512
24" O.C.	.291
30" O.C.	.185
36" O.C.	.128
42" O.C.	.105
48" O.C.	.0725

5 / 1.4.02 TRIANGULAR SPACING DIAGRAM

SCALE: N.T.S



1 / 1.4.02 PARTIAL PLANTING PLAN - 02

SCALE: 1" - 20'-0"

REFER TO SHEET 1.4.03 FOR FULL PLANT LIST

PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME
DECIDUOUS TREES		
ARA	ACER RUBRUM 'ARMSTRONG GOLD'	ARMSTRONG GOLD MAPLE
ARK	ACER RUBRUM 'KARPICK'	KARPICK RED MAPLE
ARO	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE
AS	ACER SACCHARUM	SUGAR MAPLE
BJS	BETULA PAPYRIFERA	PAPER BIRCH
CB	CARPINUS BETULUS 'FASTIGIATA'	UPRIGHT HORNBEAM
CJ	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE
GBP	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY GINGKO
LS	LIQUIDAMBAR STYRACIFLUA 'HAPPIDAZE'	HAPPIDAZE SWEETGUM
NS	NYSSA SYLVATICA	BLACK TUPELO
QA	QUERCUS ALBA	WHITE OAK
QR	QUERCUS RUBRA	RED OAK
SC	SALIX CHAENOMELODIES	PUSSY WILLOW
UM	ULMUS AMERICANA 'NEW HARMONY'	NEW HARMONY ELM
ZM	ZELKOVA SERRATA 'MUSASHINO'	MUSASHINO COLUMNAR ZELKOVA
FLOWERING TREES		
CC	CERCIS CANADENSIS	EASTERN REDBUD
PSC	PRUNUS SARGENTII 'COLUMNARIS'	COLUMNAR SARGENT CHERRY
PY	PRUNUS X YEDOENSIS 'AKEBONO'	AKEBONO YOSHINO CHERRY
EVERGREEN TREES		
JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR
PS	PINUS STROBUS	EASTERN WHITE PINE
DECIDUOUS SHRUBS		
CAE	CLETHERA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET
CAF	CORNUS ARCTIC FIRE	ARCTIC FIRE DOGWOOD
HY	HYDRANGEA MACROPHYLLA 'ALL SUMMER BLUE'	ALL SUMMER BLUE HYDRANGEA
RA	RHUS AROMATICA 'GROW LOW'	GRO-LOW FRAGRANT SUMAC
RK	ROSA KNOCK OUT BLUSHING PINK	BLUSHING PINK KNOCK OUT ROSE
SA	SPIREA ALBA LATIFOLIA	MEADOW SWEET
EVERGREEN SHRUBS		
IG	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY - COMPACT
JC	JUNIPERUS CHINENSIS SARGENTII	SARGENTII JUNIPER
JUH	JUNIPERUS HORIZONTALIS 'BAR HARBOR'	BAR HARBOR JUNIPER
KLE	KALMIA LATIFOLIA 'ELF'	ELF MOUNTAIN LAUREL
RM	RHODODENDRON MAXIMUM	MAXIMUM WHITE RHODODENDRON
GRASSES / PERENNIALS / FERNS		
COR	COREOPSIS VERTICILLATA 'MOONBEAM'	THREADLEAF COREOPSIS
EH	ELYMUS HYSTRIX	BOTTLEBRUSH GRASS
HEM	HEMEROCALLIS	DAYLILLIES
NF	NEPETA X FAASSENII 'BLUE WHISPER'	BLUE WHISPER CATMINT
PH	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN DWARF FOUNTAIN GRASS
RF	RUDBECKIA FULGIDA 'GOLDSTREAM'	BLACK EYED SUSAN
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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: BDB

Scale: 0 20 40

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Partial Planting Plan - 02

1.4.02

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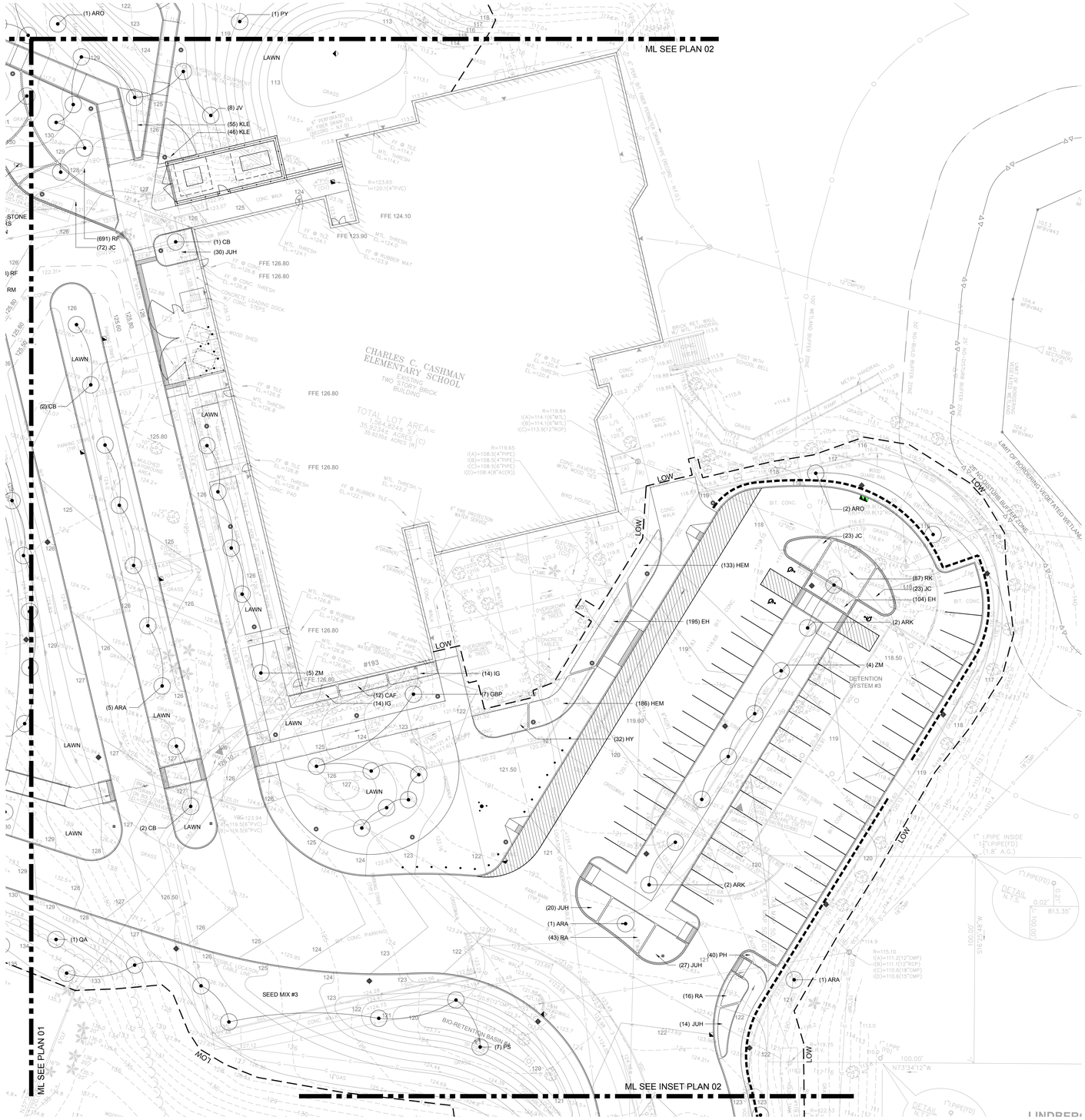
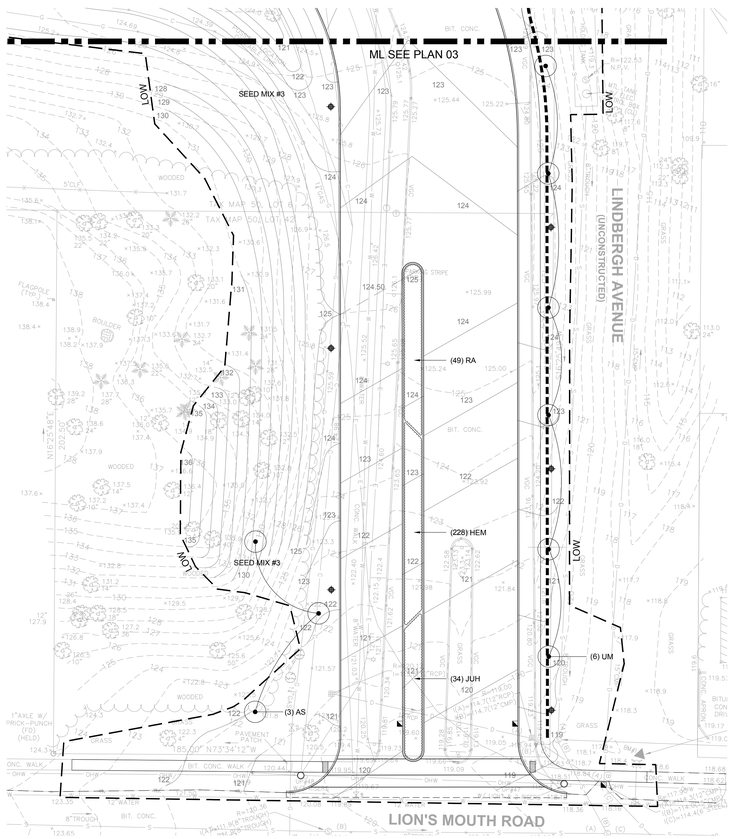
PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
DECIDUOUS TREES				
ARA	ACER RUBRUM 'ARMSTRONG GOLD'	ARMSTRONG GOLD MAPLE	3 - 3 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
ARK	ACER RUBRUM 'KARPICK'	KARPICK RED MAPLE	3 - 3 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
ARO	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	3 - 3 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
AS	ACER SACCHARUM	SUGAR MAPLE	3 - 3 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
BJS	BETULA PAPYRIFERA	PAPER BIRCH	2 - 2 1/2" CAL.	#15 CONT.
CB	CARPINUS BETULUS 'FASTIGIATA'	UPRIGHT HORNBEAM	3 - 3 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
CJ	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE	3 - 3 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
GBP	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY GINGKO	3 - 3 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
LS	LIQUIDAMBAR STYRACIFLUA 'HAPPIDAZE'	HAPPIDAZE SWEETGUM	3 - 3 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN., FRUITLESS
NS	NYSSA SYLVATICA	BLACK TUPELO	3 - 3 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
QA	QUERCUS ALBA	WHITE OAK	3 - 3 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
QR	QUERCUS RUBRA	RED OAK	3 - 3 1/2" CAL.	B&B, NO BRANCHES BELOW 6' MIN.
SC	SALIX CHAENOMELOIDES	PUSSY WILLOW	8 - 10' HT.	B&B, LOW BRANCHING
UM	ULMUS AMERICANA 'NEW HARMONY'	NEW HARMONY ELM	3 - 3 1/2" CAL.	B&B, NO BRANCHEES BELOW 6' MIN.
ZM	ZELKOVA SERRATA 'MUSASHINO'	MUSASHINO COLUMNAR ZELKOVA	3 - 3 1/2" CAL.	B&B, NO BRANCHEES BELOW 6' MIN.
FLOWERING TREES				
CC	CERCIS CANADENSIS	EASTERN REDBUD	2 1/2 - 3" CAL.	B&B, HEAVY, PINK
PSC	PRUNUS SARGENTII 'COLUMNARIS'	COLUMNAR SARGENT CHERRY	3" - 3 1/2" CAL.	B&B, HEAVY, PINK
PY	PRUNUS X YEDOENSIS 'AKEBONO'	AKEBONO YOSHINO CHERRY	3" - 3 1/2" CAL.	B&B, HEAVY, PINK
EVERGREEN TREES				
JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	7' - 8' HT.	B&B, BRANCHED TO GROUND, NOT SHEARED
PS	PINUS STROBUS	EASTERN WHITE PINE	10' - 12' HT.	B&B, BRANCHED TO GROUND, NOT SHEARED
DECIDUOUS SHRUBS				
CAE	CLETHERA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET	18"-24" HT.	30" O.C. TRIA. SP.
CAF	CORNUS ARCTIC FIRE	ARCTIC FIRE DOGWOOD	18"-24" HT.	48" O.C. TRIA. SP.
HY	HYDRANGEA MACROPHYLLA 'ALL SUMMER BLUE'	ALL SUMMER BLUE HYDRANGEA	30"-36" HT.	42" O.C. TRIA. SP.
RA	RHUS AROMATICA 'GROW LOW'	GRO-LOW FRAGRANT SUMAC	18"-24" HT.	36" O.C. TRIA. SP.
RK	ROSA KNOCK OUT BLUSHING PINK	BLUSHING PINK KNOCK OUT ROSE	18"-24" HT.	30" O.C. TRIA. SP.
SA	SPIREA ALBA LATIFOLIA	MEADOW SWEET	24"-30" HT.	48" O.C. TRIA. SP.
EVERGREEN SHRUBS				
IG	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY - COMPACT	30" HT./SPR.	42" O.C., TRIA. SP.
JC	JUNIPERUS CHINENSIS SARGENTII	SARGENTII JUNIPER	18" HT./SPR.	42" O.C., TRIA. SP.
JUH	JUNIPERUS HORIZONTALIS 'BAR HARBOR'	BAR HARBOR JUNIPER	18" HT./SPR.	42" O.C., TRIA. SP.
KLE	KALMIA LATIFOLIA 'ELF'	ELF MOUNTAIN LAUREL	18" - 24" HGT.	30" O.C., TRIA. SP.
RM	RHODODENDRON MAXIMUM	MAXIMUM WHITE RHODODENDRON	24"-30" HGT.	48" O.C., TRIA. SP.
GRASSES / PERENNIALS / FERNS				
COR	COREOPSIS VERTICILLATA 'MOONBEAM'	THREADLEAF COREOPSIS	#1 CONT.	15" O.C., TRIA. SP.
EH	ELYMUS HYSTRIX	BOTTLEBRUSH GRASS	#2 CONT.	18" O.C., TRIA. SP.
HEM	HEMEROCALLIS	DAYLILLIES	#1 POT	18" O.C., TRIA. SP.
NF	NEPETA X FAASSENII 'BLUE WHISPER'	BLUE WHISPER CATMINT	#1 CONT.	18" O.C., TRIA. SP.
PH	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN DWARF FOUNTAIN GRASS	#2 CONT.	18" O.C., TRIA. SP.
RF	RUDBECKIA FULGIDA 'GOLDSTREAM'	BLACK EYED SUSAN	#1 CONT.	18" O.C., TRIA. SP.
SN	SYMPHYOTRICHUM NOVAE-ANGLIAE	NEW ENGLAND ASTER	#2 CONT.	24" O.C., TRIA. SP.
GROUND COVER				
PT	PACHYSANDRA TERMINALIS	JAPANESE PACHYSANDRA	# 1 CONT.	18" O.C., TRIA. SP.



1 / 1.4.03 PARTIAL PLANTING PLAN - 03
SCALE: 1" - 20'-0"



2 / 1.2.03 PARTIAL PLANTING PLAN - INSET PLAN 02
SCALE: 1" - 20'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020
Drawn By: BDB
Scale: 0 20 40

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Partial Planting Plan - 03

1.4.03

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1 / 1.4.04 LIMITS OF IRRIGATION
SCALE: 1" - 30'-0"

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KEY PLAN

N

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: BDB

Scale: 0 30 60

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Limits of Irrigation

1.4.04

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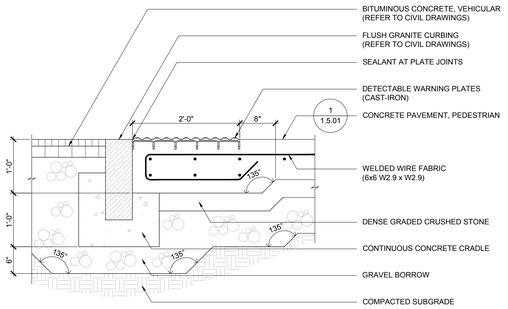
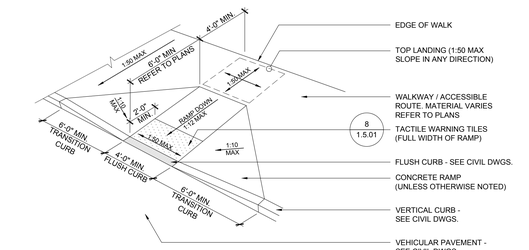
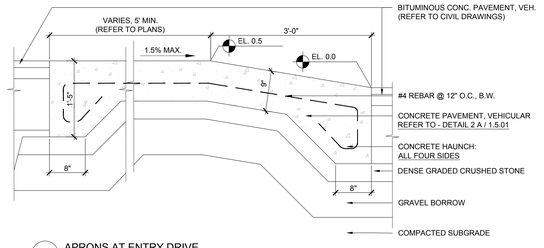


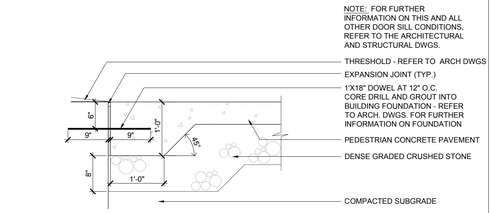
B CAST IRON PANELS AT PEDESTRIAN CONC.



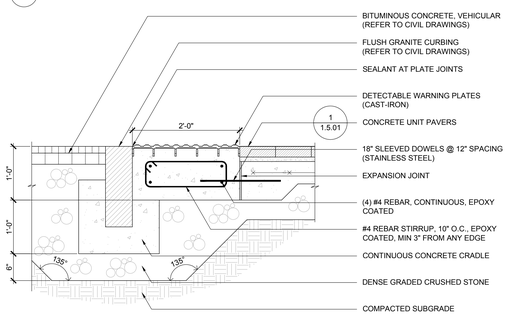
3 1.5.01 CURB CUT RAMP TYPE 1 SCALE: NTS



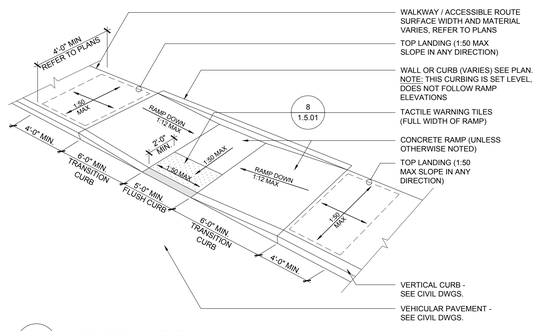
E APRONS AT ENTRY DRIVE



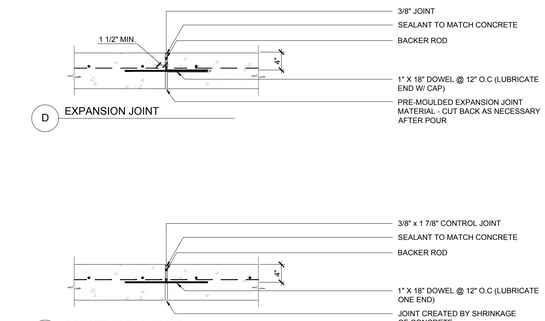
F CONC. PAVEMENT. AT DOOR THRESHOLD



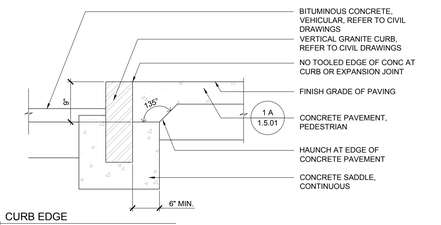
A CAST IRON PANELS AT UNIT PAVERS



4 1.5.01 CURB CUT RAMP TYPE 2 SCALE: NTS

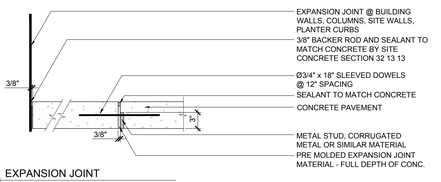


D EXPANSION JOINT



E CURB EDGE

C CONSTRUCTION JOINT



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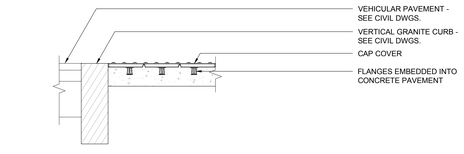
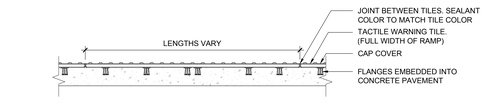
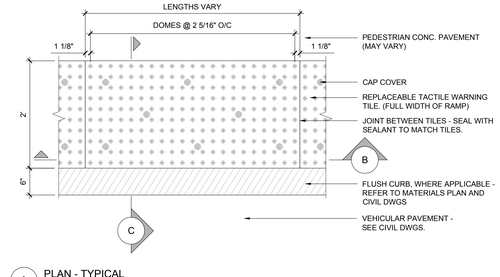


C SECTION - AT CURB



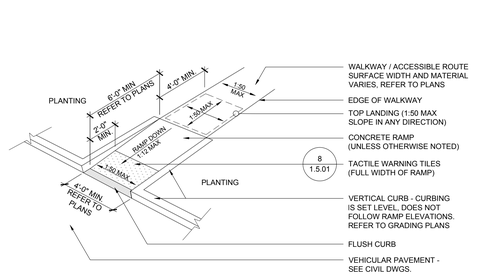
B SECTION - TYPICAL



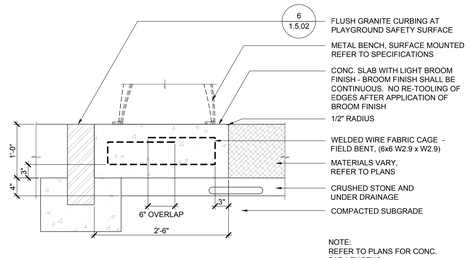
A PLAN - TYPICAL

8 1.5.01 DETECTABLE / TACTILE WARNING TILES - CAST IRON PLATES SCALE: 1" = 1'-0"

8 1.5.01 DETECTABLE / TACTILE WARNING TILES - REPLACEABLE SCALE: 1" = 1'-0"

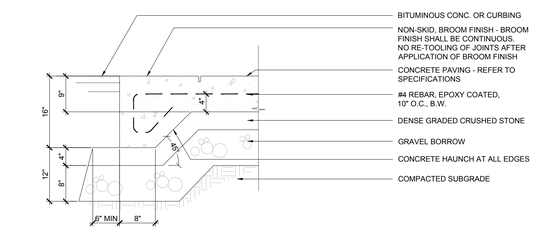


5 1.5.01 CURB CUT RAMP TYPE 3 SCALE: NTS

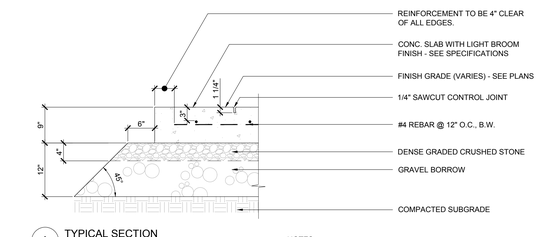


NOTE:
REFER TO PLANS FOR CONC. PAD LENGTHS.

6 1.5.01 BENCH ON CONC. PAD SCALE: 1" = 1'-0"



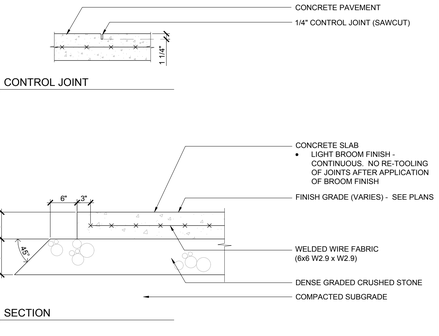
B @ ABUTTING PAVEMENT



A TYPICAL SECTION

NOTES:
1. REFER TO SPECIFICATIONS FOR COLOR SELECTION AND FURTHER INFORMATION.
2. EXPANSION JOINTS 20'-0" O.C. UNLESS SHOWN OTHERWISE.
3. SAWCUT EDGES AND JOINTS, ALL PANELS.
4. WHERE SAWCUT JOINT IS REQUIRED, DEPTH TO BE 1 7/8".
5. WHERE EXPANSION JOINT ABUTS WALL OR OTHER VERTICAL SURFACE, DELETE EXPANSION SLEEVE AND DOWEL.
6. ALL TOOL MARKS ARE TO BE SMOOTHED OUT BY A LIGHT BROOM FINISH AFTER APPLICATION UNLESS SPECIAL TREATMENT IS CALLED FOR - SEE PLANS.

2 1.5.01 CONCRETE PAVEMENT - VEHICULAR SCALE: 1" = 1'-0"



B CONTROL JOINT

A SECTION

1 1.5.01 CONCRETE PAVEMENT - PEDESTRIAN SCALE: 1" = 1'-0"

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KEY PLAN

NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By: BDB

Scale: AS SHOWN

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Site Details

1.5.01

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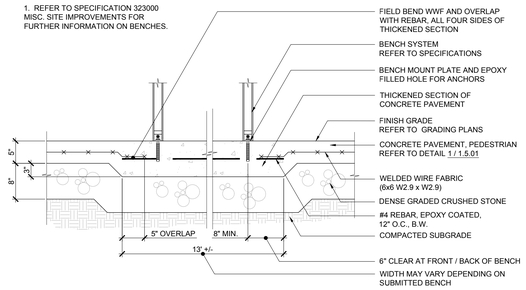
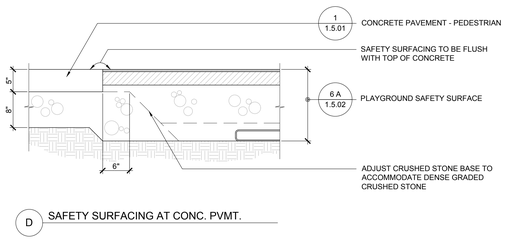
NOTE:

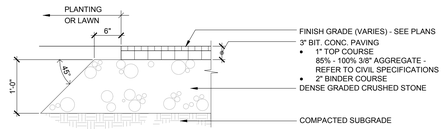
1. REFER TO SPECIFICATION 323000 MISC. SITE IMPROVEMENTS FOR FURTHER INFORMATION ON BENCHES.



7 / 1.5.02 BENCH MOUNT - ON GRADE / THICKENED SLAB
SCALE: 1" = 1'-0"



D SAFETY SURFACING AT CONC. PVMT.



2 / 1.5.02 BITUMINOUS CONCRETE PAVEMENT - PEDESTRIAN
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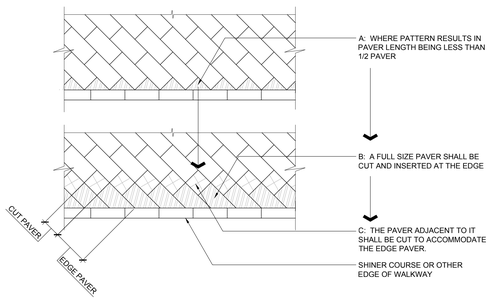
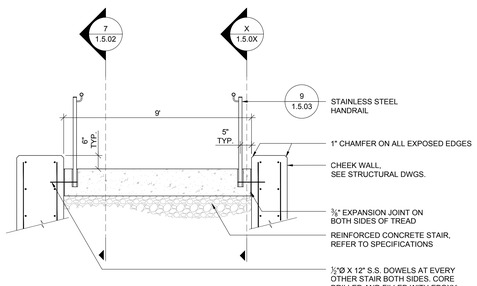


E CRITERIA AT EDGES



8 / 1.5.02 TYPICAL CONCRETE STAIR SECTION AND CHEEKWALL
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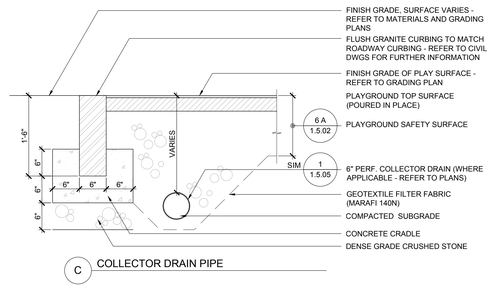
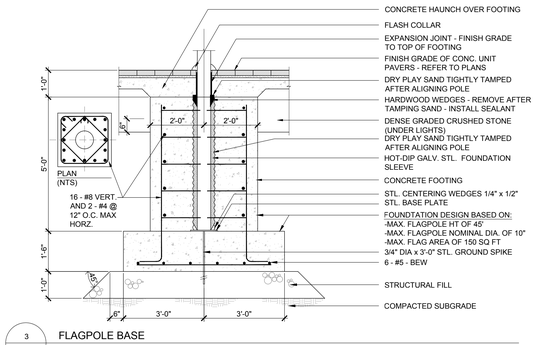
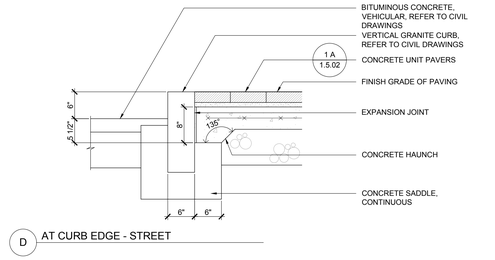


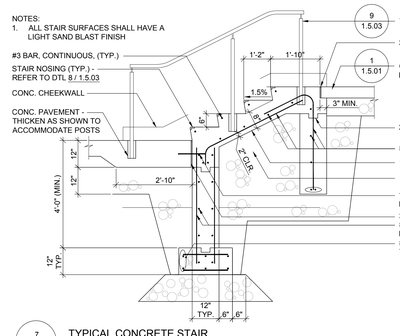
C COLLECTOR DRAIN PIPE



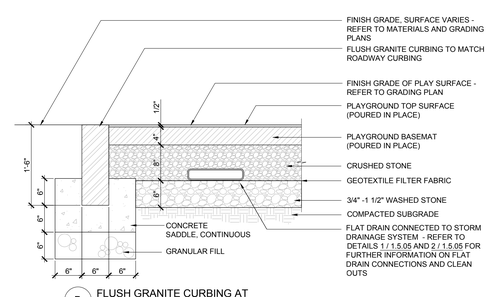
3 / 1.5.02 FLAGPOLE BASE
SCALE: 1/2" = 1'-0"



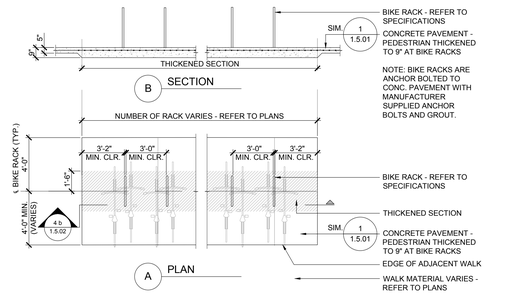
D AT CURB EDGE - STREET



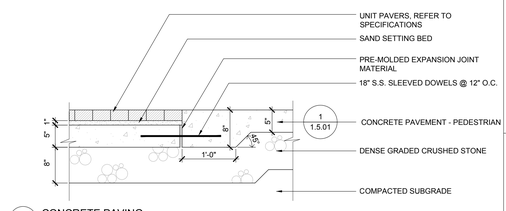
7 / 1.5.03 TYPICAL CONCRETE STAIR
SCALE: 1/2" = 1'-0"



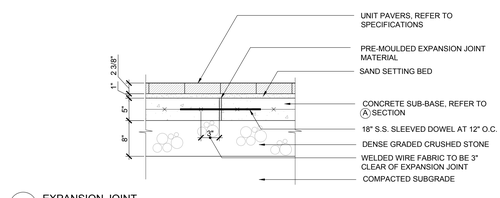
B FLUSH GRANITE CURBING AT PLAYGROUND SAFETY SURFACE



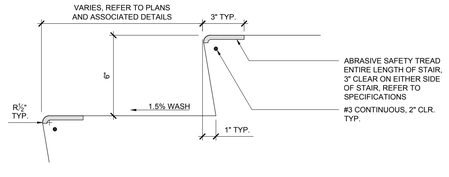
4 / 1.5.02 BIKE RACKS
SCALE: 1/4" = 1'-0"



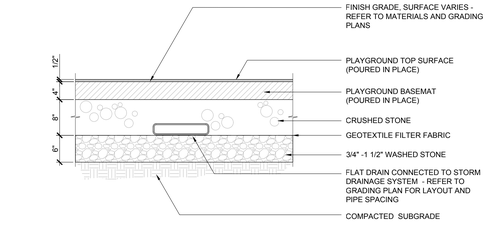
C CONCRETE PAVING



B EXPANSION JOINT

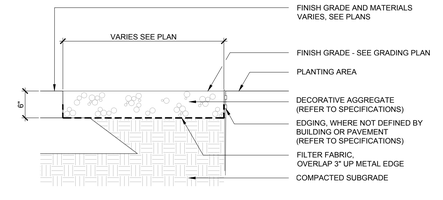


8 / 1.5.03 STAIR NOSING
SCALE: 3" = 1'-0"

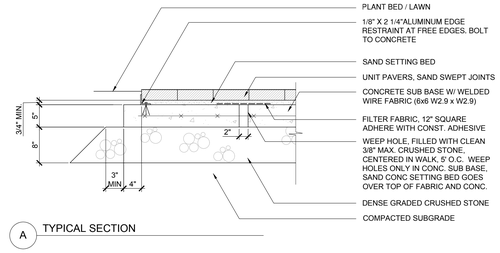


A PLAYGROUND SAFETY SURFACE - SECTION

6 / 1.5.02 PLAYGROUND SAFETY SURFACE
SCALE: 1" = 1'-0"



5 / 1.5.02 DECORATIVE AGGREGATE BED
SCALE: 1" = 1'-0"



A TYPICAL SECTION

1 / 1.5.02 CONCRETE UNIT PAVERS
SCALE: 1" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: BDB

Scale: AS SHOWN

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Site Details

1.5.02

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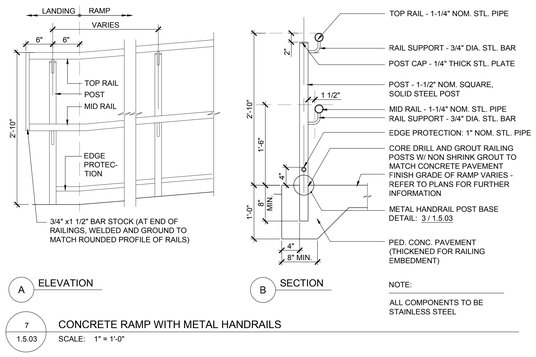
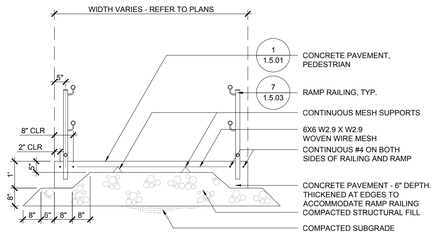
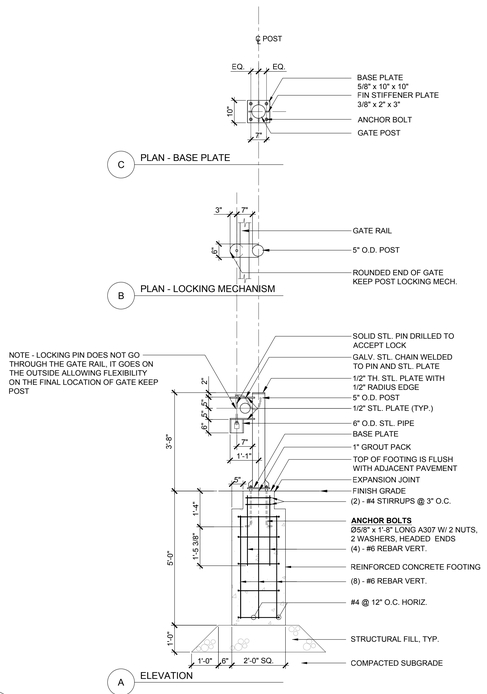


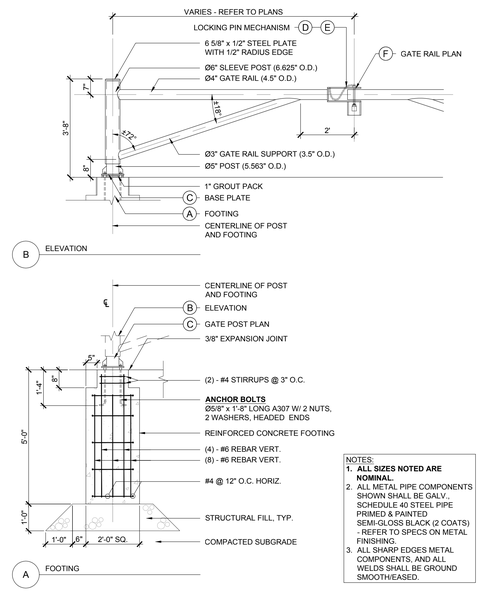
7 / 1.5.03 CONCRETE RAMP WITH METAL HANDRAILS
SCALE: 1" = 1'-0"



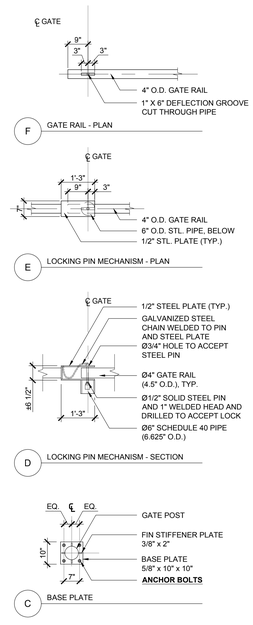
8 / 1.5.03 RAMP SECTION
SCALE: 1/2" = 1'-0"

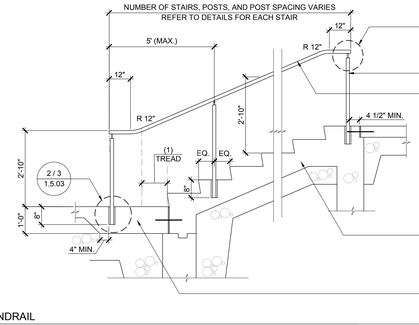


6 / 1.5.03 SWING LEAF GATE - GATE KEEP POST AND FOOTING
SCALE: 1/2" = 1'-0"



1 / 1.5.03 SWING LEAF GATE
SCALE: 1/2" = 1'-0"

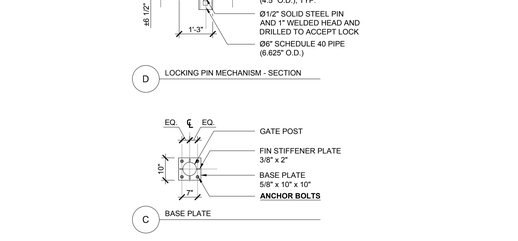




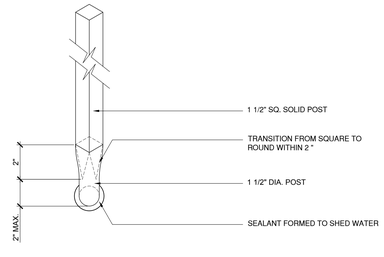
NOTES:
1. ALL COMPONENTS TO BE STAINLESS STEEL.
2. ALL WELDS SHALL BE GROUND SMOOTH PRIOR TO METAL FINISHING.
3. FINISH PRODUCT SHALL BE SHOP FINISHED.
4. PROTECT PRODUCTS DURING SHIPPING AND ON SITE UNTIL INSTALLATION.
5. SUBMIT FULLY DIMENSIONED, STAMPED SHOP DRAWINGS AND PROFESSIONAL ENGINEERS CALCULATIONS AS PER SECTION 055000 AFTER VERIFYING FIELD CONDITIONS.

9 / 1.5.03 TYPICAL METAL HANDRAIL
SCALE: 1/2" = 1'-0"

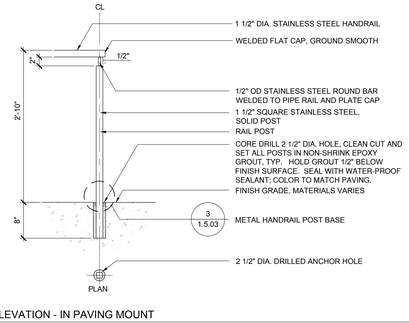
4 / 1.5.03 DECORATIVE METAL BOLLARD
SCALE: 3/4" = 1'-0"
(AT BITUMINOUS CONCRETE PAVEMENT)



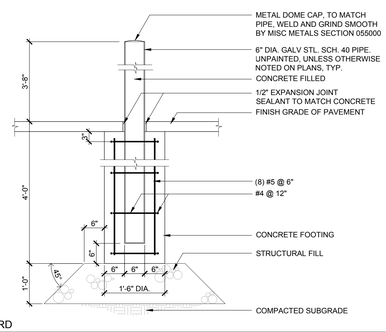
2 / 1.5.03 DECORATIVE METAL BOLLARD
SCALE: 3/4" = 1'-0"
(AT UNIT PAVERS / CAST IRON PLATES)



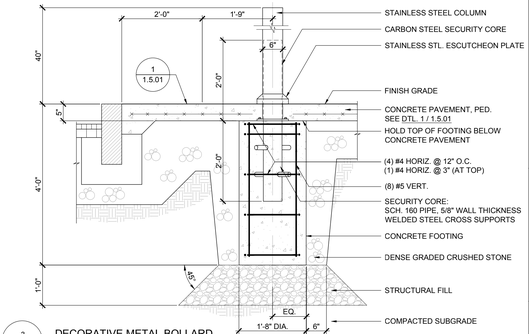
11 / 1.5.03 METAL HANDRAIL POST BASE
SCALE: 3"=1'-0"



10 / 1.5.03 POST ELEVATION - IN PAVING MOUNT
SCALE: 1" = 1'=0"



5 / 1.5.03 METAL BOLLARD
SCALE: 3/4" = 1'-0"



3 / 1.5.03 DECORATIVE METAL BOLLARD
SCALE: 3/4" = 1'-0"
(AT CONC. PVMT.)

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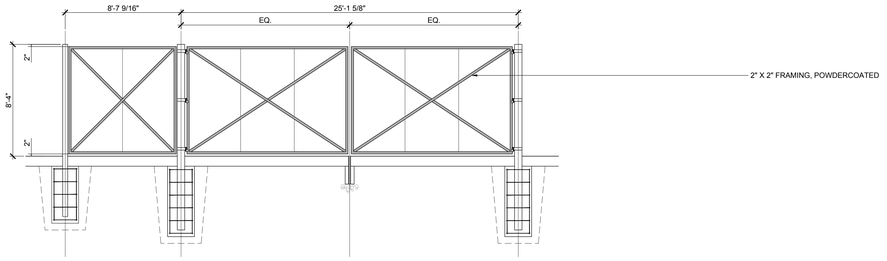
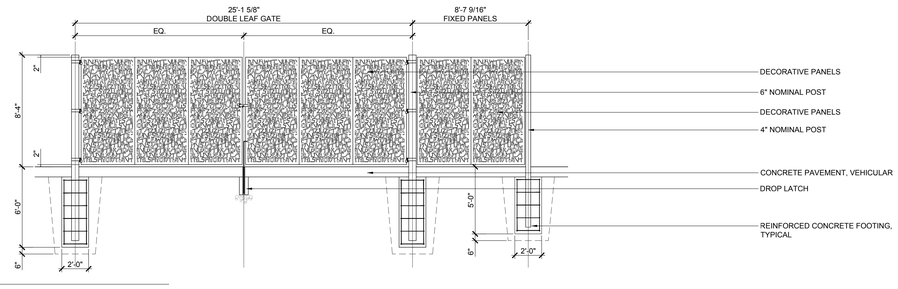
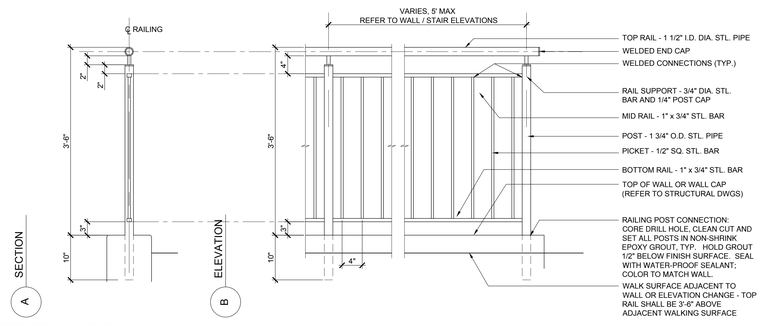


B REAR ELEVATION



A FRONT ELEVATION

8 / 1.5.04 DECORATIVE PANEL GATES
SCALE: 1/4" = 1'-0"



NOTES:
1. ALL COMPONENTS TO BE STAINLESS STEEL.
2. ALL WELDS SHALL BE GROUND SMOOTH PRIOR TO METAL FINISHING.
3. FINISH PRODUCT SHALL BE SHOP FINISHED.
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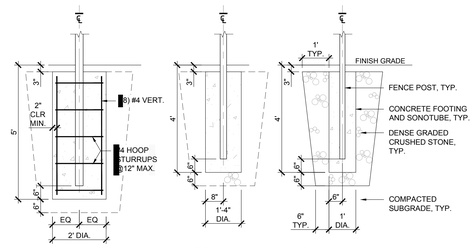
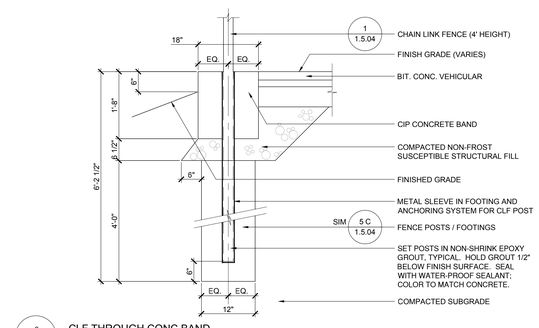
9 / 1.5.04 PEDESTRIAN GUARDRAIL
SCALE: 1" = 1'-0"

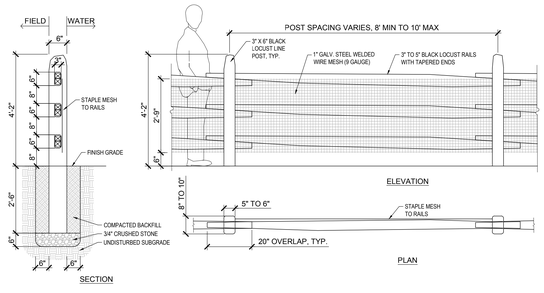


NOTE:
ALL PIPE SIZES NOTED ARE NOMINAL PIPE SIZES (NPS) - REFER TO SPECIFICATIONS SECTION 32 3100- FENCING FOR SPECIFIC PIPE SIZES FOR ALL POSTS.

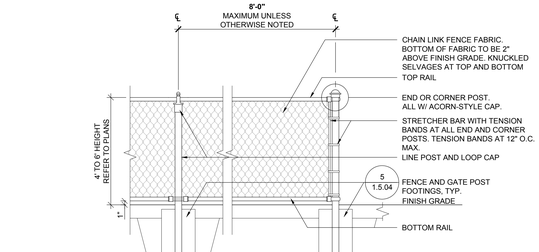
5 / 1.5.04 FENCE AND GATE POST / FOOTINGS
SCALE: 1/2" = 1'-0"



6 / 1.5.04 CLF THROUGH CONC BAND
SCALE: 3/4" = 1'-0"

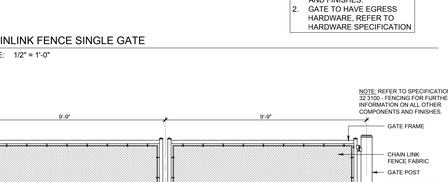


7 / 1.5.04 SPLIT RAIL FENCE
SCALE: 1/2" = 1'-0"



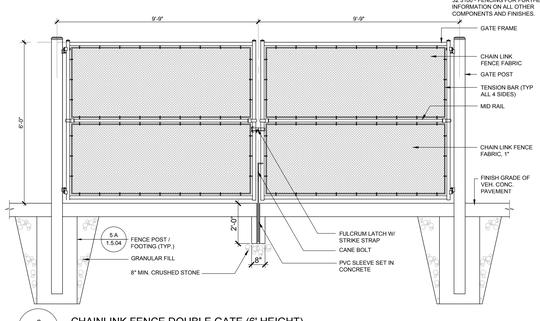
NOTE:
1. STEEL FABRIC TIES CONTINUOUSLY ALONG ALL RAILS AND LINE POSTS.
2. REFER TO SPECIFICATION 32 3100 - FENCING FOR FURTHER INFORMATION ON CHAINLINK FABRIC, AND ALL OTHER COMPONENTS AND FINISHES.

1 / 1.5.04 CHAIN LINK FENCE (4 TO 6 FOOT HEIGHTS)
SCALE: 1/2" = 1'-0"

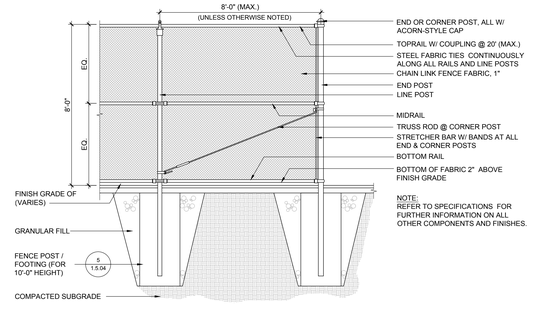


NOTES:
1. REFER TO SPECIFICATION 32 3100 - FENCING FOR FURTHER INFORMATION ON ALL OTHER COMPONENTS AND FINISHES.
2. GATE TO HAVE EGRESS HARDWARE. REFER TO HARDWARE SPECIFICATION

2 / 1.5.04 CHAINLINK FENCE SINGLE GATE
SCALE: 1/2" = 1'-0"



3 / 1.5.04 CHAINLINK FENCE DOUBLE GATE (6' HEIGHT)
SCALE: 3/8" = 1'-0"



NOTE:
REFER TO SPECIFICATIONS FOR FURTHER INFORMATION ON ALL OTHER COMPONENTS AND FINISHES.

4 / 1.5.04 CHAIN LINK FENCE - 8' HEIGHT
SCALE: 3/8"=1'-0"

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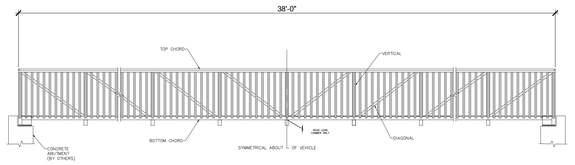

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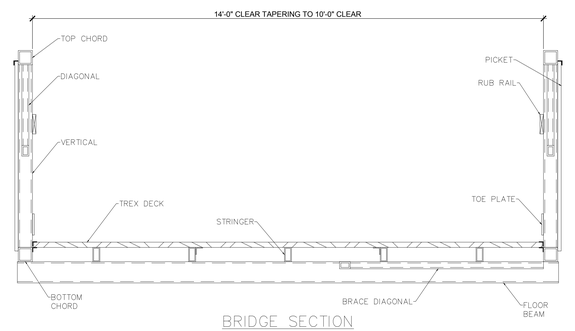
3 / 1.5.05 PEDESTRIAN BRIDGE - ELEVATION
SCALE: 1/4" = 1'-0"



BRIDGE SECTION

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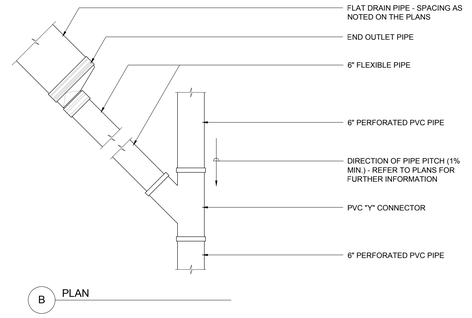
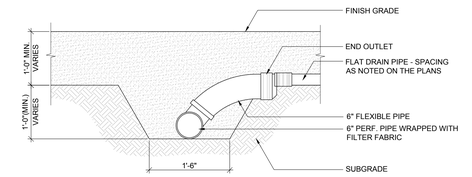
4 / 1.5.05 PEDESTRIAN BRIDGE - SECTION
SCALE: 1/4" = 1'-0"

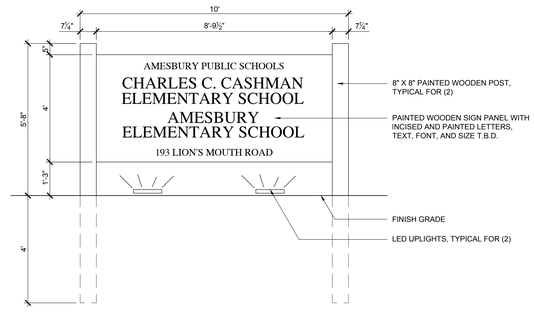


B PLAN

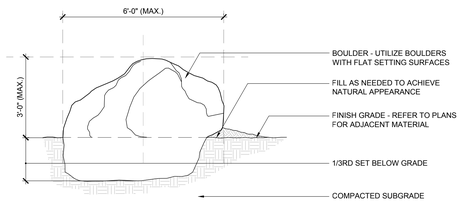


A SECTION

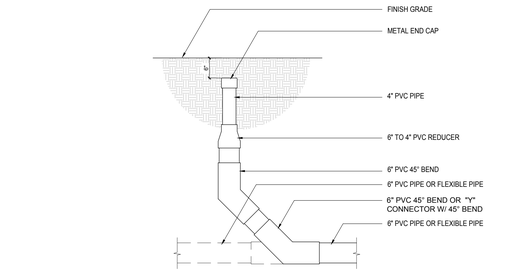
1 / 1.5.05 FLAT DRAIN CONNECTION
SCALE: 1" = 1'-0"



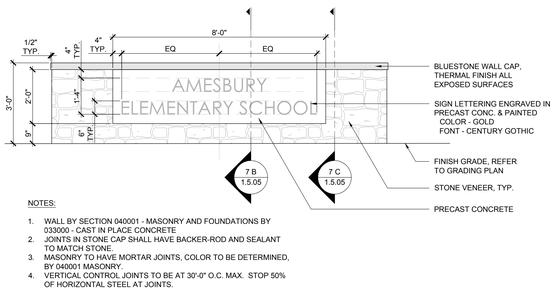
6 / 1.5.05 SCHOOL SIGN
SCALE: 1/2" = 1'-0"



5 / 1.5.05 NATIVE BOULDER
SCALE: NO SCALE



2 / 1.5.05 CLEANOUT
SCALE: 3/4" = 1'-0"

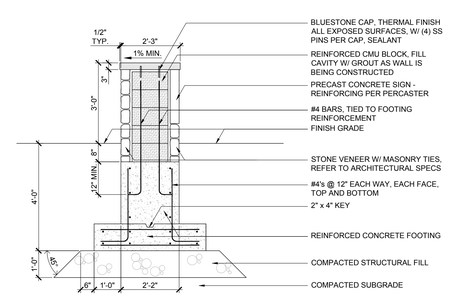


NOTES:

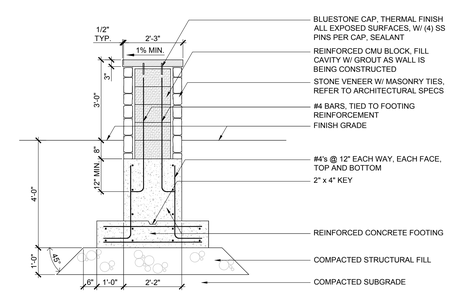
1. WALL BY SECTION 040001 - MASONRY AND FOUNDATIONS BY 033000 - CAST IN PLACE CONCRETE
2. JOINTS IN STONE CAP SHALL HAVE BACKER-ROD AND SEALANT TO MATCH STONE.
3. MASONRY TO HAVE MORTAR JOINTS, COLOR TO BE DETERMINED, BY 040001 MASONRY.
4. VERTICAL CONTROL JOINTS TO BE AT 30'-0" O.C. MAX. STOP 50% OF HORIZONTAL STEEL AT JOINTS.

A ELEVATION

7 / 1.5.05 GRANITE SIGN WALL
SCALE: 1/2" = 1'-0"



B SECTION @ PRECAST CONCRETE



C SECTION @ STONE VENEER

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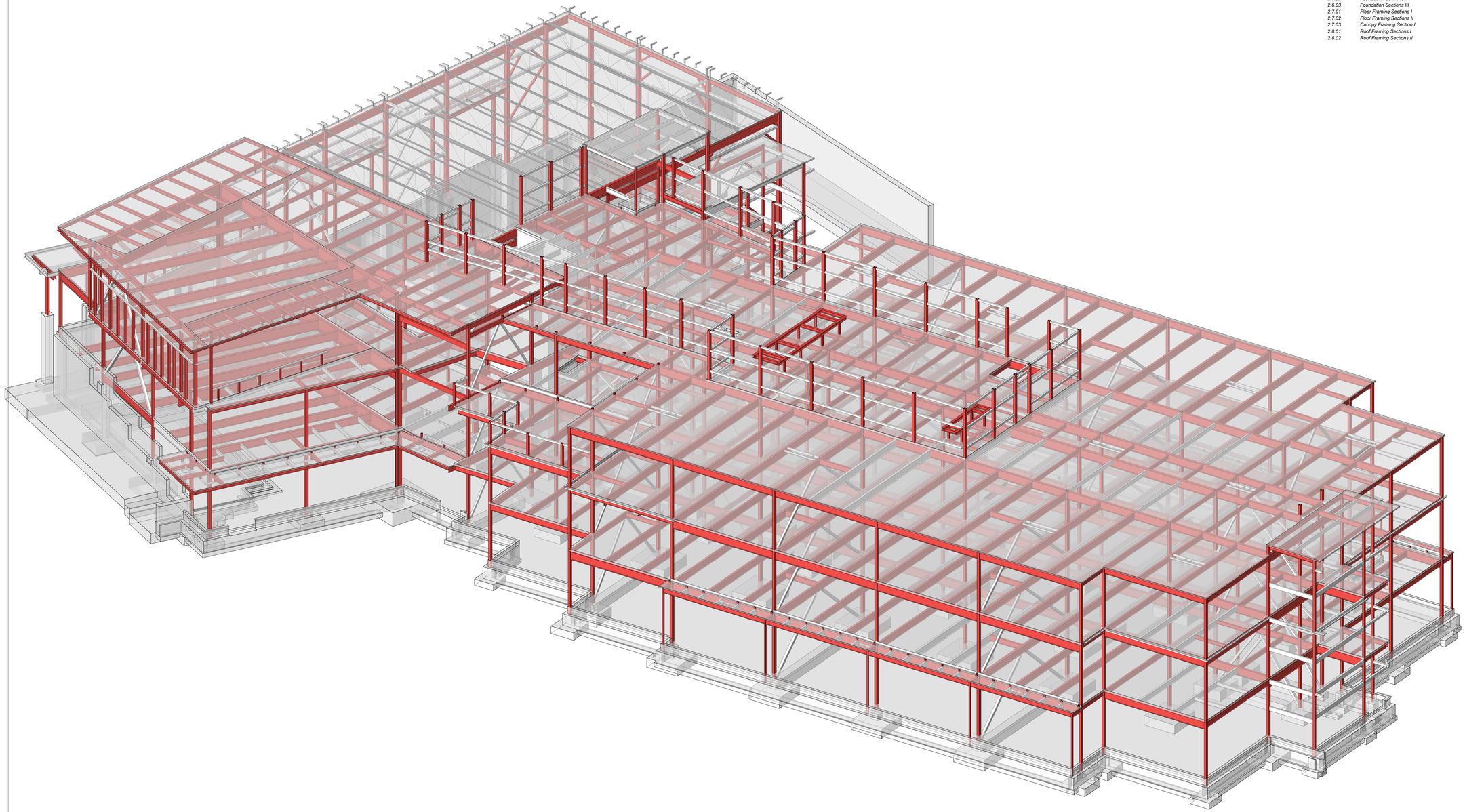
FBRA STRUCTURAL DRAWING LIST

Drawing Number	Drawing Name
2.1.00	Schematic Framing Diagram
2.1.01	General Notes
2.1.02	Typical Details I
2.1.03	Typical Details II
2.1.04	Typical Details III
2.1.05	Typical Details IV
2.1.06	Typical Details V
2.1.07	Typical Details VI
2.4.00	Grid Layout Plan
2.4.01	Ground Floor/Foundation Plan
2.4.02	First Floor Framing Plan
2.4.03	Second Floor Framing Plan
2.4.04	Roof Framing Plan
2.4.05	High Roof Framing Plan
2.5.01	Brace Elevations I
2.5.02	Brace Elevations II
2.5.03	Brace Elevations III
2.5.04	Brace Details I
2.5.05	Brace Details II
2.5.06	Building Sections
2.5.07	Pier, Pilaster, and Base Plate Details
2.5.08	Joist Elevations
2.6.01	Foundation Sections I
2.6.02	Foundation Sections II
2.6.03	Foundation Sections III
2.7.01	Floor Framing Sections I
2.7.02	Floor Framing Sections II
2.7.03	Canopy Framing Section I
2.8.01	Roof Framing Sections I
2.8.02	Roof Framing Sections II



SCHEMATIC FRAMING DIAGRAM

SCHEMATIC FRAMING DIAGRAM

THREE DIMENSIONAL FRAMING DIAGRAM IS SCHEMATIC ONLY.
-REFER TO THE PLANS, SECTIONS AND ELEVATIONS FOR SPECIFIC DETAILS.

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KEY PLAN

N
Called North

NORTH ARROW *LICENSE STAMP*

Date 15 MAY 2020
Drawn By CMPD
Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Schematic Framing Diagram

2.1.00

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GENERAL

G1. THE GENERAL NOTES APPLY UNLESS NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS.

G2. STRUCTURAL WORK SHALL CONFORM TO REQUIREMENTS OF THE "MASSACHUSETTS STATE BUILDING CODE" 780 CMR, NINTH EDITION AND ALL AMENDMENTS.

G3. THE INTENT OF THE STRUCTURAL DRAWINGS IS TO SHOW THE MAIN STRUCTURAL FEATURES AND DESIGN FOR THE COMPLETED PROJECT. ARCHITECTURAL DETAILS AND OTHER COMPONENTS THAT MAY BE NECESSARY TO CONSTRUCT THE PROJECT ARE SHOWN INCIDENTALLY ONLY AND NOT COMPLETELY.

G4. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, SITE, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS, APPROVED SHOP DRAWINGS, AND SPECIFICATIONS.

G5. REFER TO ARCHITECTURAL, SITE, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR VERIFICATION OF LOCATIONS AND DIMENSIONS OF ALL SHAFTS, INSERTS, CURBS, OPENINGS, SLEEVES, ANCHOR BOLTS, FLOOR PITCHES, ANGLE FRAMES, AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.

G6. THE CONTRACTOR SHALL INFORM THE ARCHITECT OF ALL DISCREPANCIES BETWEEN DRAWINGS OF DIFFERENT TRADES PRIOR TO INITIATION OF ANY WORK.

G7. THE CONTRACTOR SHALL PROVIDE ALL THE NECESSARY ENGINEERED TEMPORARY BRACING AND SHORING TO SAFELY SUPPORT THE NEW WORK AND THE APPLIED LOADS UNTIL THE PERMANENT STRUCTURE IS FULLY INSTALLED AND AT FULL STRENGTH.

G8. SHOP DRAWINGS FOR REINFORCING STEEL, STRUCTURAL STEEL, STEEL JOISTS, AND STEEL DECK SHALL BE SUBMITTED TO THE ARCHITECT AND A STAMPED APPROVAL RECEIVED BEFORE FABRICATION MAY PROCEED. FABRICATION AND ERECTION SHALL PROCEED FROM APPROVED SHOP DRAWINGS ONLY.

G9. NOTES AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS NOTED.

G10. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

G11. THE CONTRACTOR SHALL SUBMIT LOADING DATA FOR ANY EQUIPMENT SUCH AS LIFTS, ETC. PROPOSED FOR USE ON THE BUILDING DURING CONSTRUCTION.

G12. BUILDING CONSTRUCTION TYPE IS XX, FLOOR AND ROOF CONSTRUCTION ARE TO BE CONSIDERED RESTRAINED.

STRUCTURAL LOADS - MASSACHUSETTS STATE BUILDING CODE (780 CMR) - NINTH EDITION (I.B.C. 2015 WITH MASSACHUSETTS AMENDMENTS)

L1. DEAD LOADS
- A. WEIGHT OF BUILDING COMPONENTS
  - 1. FLOOR — XX PSF
  - 2. TYPICAL ROOF AREAS — XX PSF
  - 3. ROOF ARES DESIGNED FOR FUTURE PVs (SEE PLAN) — XX PSF
- B. TYPICAL PARTITIONS ALLOWANCE - (I.B.C. - SECTION 1607.5) — 15 PSF

L2. SNOW LOADS
- A. GROUND SNOW LOAD - (MA TABLE 1604.11) — p_g = 50 PSF
- B. SNOW EXPOSURE FACTOR - (ASCE 7-10 - TABLE 7-2) — C_e = 1.0
- C. ROOF THERMAL FACTOR - (ASCE 7-10 - TABLE 7-3) — C_t = 1.0
- D. SNOW IMPORTANCE FACTOR - (ASCE 7-10 - TABLE 1.5-2) — I_s = 1.1
- E. FLAT ROOF SNOW LOAD - (ASCE 7-10 - SECTION 7.3) — p_f = 38.5 PSF
- F. ROOF SLOPE FACTOR - (ASCE 7-10 - FIGURE 7-2) — C_s = 1.0
- G. UNBALANCE ROOF SNOW LOAD (ASCE 7-10 - SECTION 7.6)
- H. SLIDING SNOW LOAD ON LOWER ROOF AREAS (ASCE 7-10 - SECTION 7.9)
- I. SNOW DRIFT - (ASCE 7-10 - FIGURES 7-7, 7-8 & 7-9)
  - 1. LOWER ROOFS (ASCE 7-10 - SECTION 7.7.1)
  - 2. ADJACENT STRUCTURES (ASCE 7-10 - SECTION 7.7.2)
  - 3. ROOF PROJECTIONS & PARAPETS (ASCE 7-10 - SECTION 7.8)

L3. LIVE LOADS
- A. LOADS (I.B.C. - TABLE 1607.1)
  - 1. CLASSROOMS — 65 PSF (INCLUDING PARTITION ALLOWANCE)
  - 2. OFFICES — 65 PSF (INCLUDING PARTITION ALLOWANCE)
  - 3. CORRIDORS ABOVE THE FIRST FLOOR — 80 PSF
  - 4. LOBBIES AND FIRST FLOOR CORRIDORS — 100 PSF
  - 5. STAIRS — 100 PSF
  - 6. OPEN PLAN AREAS (LIBRARY AND GYMNASIUM) — 100 PSF
  - 7. MECHANICAL EQUIPMENT ROOMS — 150 PSF (100PSF+50PSF EQUIPMENT PADS)
  - 8. EXTERIOR PLAZAS — 100 PSF
- B. LIVE LOAD REDUCTION (I.B.C. - SECTION 1607.10)
- C. CONSTRUCTION LOADS
  - 1. UNIFORM LOAD (STEEL DECK) — 20 PSF
  - 2. CONCENTRATED LOAD (BARE STEEL DECK) — 150 LBS.
  - 3. CONCENTRATED LOAD (SLABS ON COMPOSITE DECK) — 1500 LBS. MAX WHEEL LOAD

L4. WIND LOADS
- NOTE: PER ASCE 7-10 AND 2015 IBC, THE DESIGN WIND PRESSURES LISTED BELOW REFLECT ULTIMATE STRENGTH VALUES. PER IBC SECTION 1605.4, ASD LOAD COMBINATIONS NOW INCLUDES A 0.6 FACTOR FOR WIND LOADING

- A. MAIN WIND FORCE RESISTING SYSTEM (MWFRS) - ENVELOPE PROCEDURE
  - 1. RISK CATEGORY (IBC TABLE 1604.5) — CATEGORY III
  - 2. ULTIMATE DESIGN WIND SPEED (MA TABLE 1604.11, IBC 1609.3.1) — V_{ult} = 134 MPH
  - 3. WIND DIRECTIONALITY FACTOR (ASCE 7-10 - TABLE 26.6-1) — K_d = 0.85
  - 4. WIND EXPOSURE CATEGORY (ASCE 7-10 - SECTION 26.7) — EXPOSURE C
  - 5. TOPOGRAPHIC FACTOR (ASCE 7-10 - FIGURE 26.8-1) — K_{zt} = 1.0
  - 6. ENCLOSURE CLASSIFICATION (ASCE 7-10 - SECTION 26.10) — ENCLOSED
  - 7. INTERNAL PRESSURE COEFFICIENT (ASCE 7-10 - TALBE 26.11-1) — GC_{pi} = ± 0.18
  - 8. VELOCITY PRESSURE COEFFICIENT (ASCE 7-10 - TABLE 28.3-1) — K_z = 1.07
  - 9. VELOCITY PRESSURE (ASCE 7-10 - SECTION 28.3.2) — q_h = 42 PSF
- B. COMPONENTS AND CLADDING (ASCE 7-10 - CHAPTER 30, PART 1: LOW-RISE BUILDINGS)
  - 1. EFFECTIVE WIND AREA (ASCE 7-10 - FIGURE 30.4-1) — A_{eff} ≤ 10 SQ. FT.
  - 2. WIDTH OF SALIENT ZONE — a = 7.5 FEET
  - 3. NET DESIGN WIND PRESSURES (ASCE 7-10 - EQUATION 30.4-1)
    - a. WALL ELEMENTS
      - i. AT A NON-SALIENT AREA — p_{net} = +45 PSF / -49 PSF
      - ii. AT A SALIENT CORNER — p_{net} = +45 PSF / -60 PSF
    - b. ROOF ELEMENTS
      - i. AT A NON-SALIENT AREA — p_{net} = +20 PSF / -50 PSF
      - ii. AT AN EDGE — p_{net} = +20 PSF / -83 PSF
      - iii. AT A SALIENT CORNER — p_{net} = +20 PSF / -125 PSF
    - c. OVERHANG ELEMENTS
      - i. AT AN EDGE — p_{net} = -79 PSF
      - ii. AT A SALIENT CORNER — p_{net} = -125 PSF

L6. SEISMIC LOADS
- A. SEISMIC OCCUPANCY CATEGORY - (ASCE 7-10 - TABLE 1.5-1) — RISK CATEGORY III
- B. MAPPED SPECTRAL ACCELERATION FOR SHORT PERIODS - (MA TABLE 1604.11) — S_s = 0.267g
- C. DESIGN SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS — S_{DS} = 0.214g
- D. MAPPED SPECTRAL ACCELERATION FOR 1-SECOND PERIOD - (MA TABLE 1604.11) — S_1 = 0.078g
- E. DESIGN SPECTRAL RESPONSE ACCELERATION FOR 1-SECOND PERIOD — S_{D1} = 0.088g
- F. SITE CLASS - REFER TO GEOTECHNICAL REPORT — SITE CLASS C
- G. SEISMIC DESIGN CATEGORY - (ASCE 7-10 - TABLES 11.6-1 & 11.6-2) — CATEGORY B
- H. BASIC SEISMIC-FORCE-RESISTING SYSTEM - (ASCE 7-10 - TABLE 12.2-1) — STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
- I. RESPONSE MODIFICATION COEFFICIENT - (ASCE 7-10 - TABLE 12.2-1) — R = 3.0
- J. DEFLECTION AMPLIFICATION FACTOR - (ASCE 7-10 - TABLE 12.2-1) — C_d = 3.0
- K. SYSTEM OVERSTRENGTH FACTOR - (ASCE 7-10 -TABLE 12.2-1) — Ω_0 = 3.0
- L. SEISMIC IMPORTANCE FACTOR - (ASCE 7-10 - TABLE 11.5-1) — I_E = 1.25
- M. SEISMIC RESPONSE COEFFICIENT — C_s = 0.089
- N. DESIGN BASE SHEAR — V = XXX KIPS (EAST-WEST); V = XXX KIPS (NORTH-SOUTH)
- O. ANALYSIS PROCEDURE USED — EQUIVALENT LATERAL FORCE

FOUNDATION (SECTION 310000)

F1. FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT BY GZA GEOENVIRONMENTAL, INC., FILE # 01.0174490.00, DATED JANUARY 15, 2020.

F2. THE OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED ON THE DRAWINGS, SPECIFICATIONS, BORING LOGS, OR TEST PITS. THIS DATA IS INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION AND REPRESENT CONDITIONS ONLY OF THOSE SPECIFIED LOCATIONS AT THE PARTICULAR TIME THEY WERE MADE.

F3. THE CONTRACTOR SHALL INFORM THE ARCHITECT AND RELOCATE, AS REQUIRED, ANY EXISTING UTILITY LINES THAT MAY INTERFERE WITH NEW FOUNDATIONS. THE CONTRACTOR SHALL REMOVE ANY EXISTING UTILITY LINES THAT ARE BEING ABANDONED IN THE VICINITY OF THE NEW FOUNDATION AND BACKFILL THE AREA WITH COMPACTED STRUCTURAL FILL.

F4. THE BOTTOM SURFACE OF ALL SPREAD FOOTINGS SHALL REST ON A 12" THICK LAYER OF COMPACTED CRUSHED STONE OVER UNDISTURBED APPROVED SOIL OR COMPACTED STRUCTURAL FILL, WITH A MINIMUM ALLOWABLE BEARING PRESSURE OF 2.5 TONS PER SQUARE FOOT. REMOVE ALL ORGANICS, CLAYS, SILTS, OR UNSUITABLE OR UNCOMPACTED FILL MATERIALS FROM BENEATH NEW FOOTINGS AND REPLACE WITH COMPACTED STRUCTURAL FILL.

F5. THE ESTIMATED BOTTOM ELEVATION OF EACH FOOTING IS INDICATED THUS [X'-X"] ON PLAN. THE BOTTOM OF EACH EXTERIOR FOOTING SHALL BE A MINIMUM OF 4'-0" BELOW ADJACENT EXTERIOR FINISH GRADE.

F6. PROVIDE A VAPOR BARRIER UNDER INTERIOR CONCRETE SLABS ON GRADE. PROVIDE 6" MINIMUM OF COMPACTED STRUCTURAL FILL UNDER GROUND FLOOR SLABS ON GRADE. PROVIDE A 6" MINIMUM COMPACTED CRUSHED STONE UNDERSLAB DRAIN UNDER BASEMENT SLABS ON GRADE.

F7. BACKFILL UNDER STRUCTURAL SLABS, MATS, AND FOOTINGS SHALL BE ENGINEERED BACKFILL COMPACTED IN SPECIFIED LIFTS TO 95 PERCENT OF MAXIMUM DENSITY, UNLESS OTHERWISE INDICATED OR SPECIFIED. REFER TO GEOTECHNICAL REPORT AND EARTHWORK SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

F8. VERIFY LOCATIONS AND REQUIREMENTS FOR INSERTS, SLEEVES, CONDUITS, EMBEDMENTS, AND PENETRATIONS WITH RESPECTIVE TRADES BEFORE PLACING CONCRETE.

F9. FOUNDATIONS SHALL BE CENTERED UNDER SUPPORTED MEMBERS, UNLESS NOTED OTHERWISE.

F10. DOWELS FROM FOUNDATIONS INTO PIERS, COLUMNS, OR WALLS SHALL BE THE SAME SIZE AND NUMBER AS REINFORCEMENT IN PIERS, COLUMNS, OR WALLS ABOVE, UNLESS NOTED OTHERWISE.

F11. NO CONCRETE SHALL BE PLACED UNDER WATER OR ON FROZEN SUBGRADE. PROTECT IN-PLACE FOUNDATIONS AND SLABS FROM FROST PENETRATION UNTIL PROJECT IS COMPLETED.

F12. DO NOT BACK FILL FOUNDATION WALLS UNTIL WALLS HAVE REACHED THEIR 28 DAY STRENGTHS AND FLOOR SLABS AT THE TOP AND BOTTOM OF WALLS ARE IN PLACE AND CURED.

CAST-IN-PLACE CONCRETE (SECTION 033000)

C1. CONCRETE WORK SHALL CONFORM TO THE LATEST "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318)".

C2. CONCRETE SHALL BE PLACED IN THE PRESENCE OF THE APPROVED TESTING AGENCY.

C3. CONCRETE QUALITY IN ACCORDANCE WITH THE REQUIREMENTS OF THESE DRAWINGS AND SPECIFICATIONS IS ESSENTIAL TO THE STRUCTURAL PERFORMANCE OF THE BUILDING. CONCRETE THAT IS NOT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS WILL NOT BE ACCEPTED.

C4. CONCRETE EXPOSED TO WEATHER SHALL CONTAIN AN AIR ENTRAINMENT ADMIXTURE.

C5. NORMAL WEIGHT CONCRETE SHALL HAVE AN AIR-DRY UNIT WEIGHT OF 145 PCF.

C6. CONCRETE MINIMUM 28-DAY STRENGTH, UNLESS NOTED OTHERWISE, SHALL CONFORM TO FOLLOWING:
- A. FOOTINGS, PIERS, FOUNDATION WALLS, + GRADE BEAMS: — 3000 PSI (NORMAL WEIGHT)
- B. SLABS ON GRADE + SLABS ON METAL DECK: — 4000 PSI (NORMAL WEIGHT)
- C. COLUMNS + ABOVE GRADE WALLS — 4000 PSI (NORMAL WEIGHT)
- D. SITE PAVING: — 4500 PSI (NORMAL WEIGHT)

C7. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED BARS. LAP ALL CONTINUOUS BARS A MINIMUM OF 40 DIAMETERS, UNLESS NOTED. PROVIDE MATCHING CORNER AND INTERSECTION BARS.

C8. PROVIDE A MINIMUM OF #4 AT 12" EACH WAY, EACH FACE, FOR ALL WALLS, FOOTINGS, PITS, OR PADS, UNLESS NOTED OTHERWISE.

C9. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 1064 IN FLAT SHEETS. LAP ONE AND ONE-HALF SQUARES AT ALL JOINTS AND TIE AT 3'-0" o.c. AT SLAB ON GRADE, PLACE WELDED WIRE FABRIC ON SLAB BOLSTERS WITH SAND PLATES SPACED AT 3'-0" o.c. EACH WAY.

C10. PROVIDE REINFORCING STEEL DETAILING, LAP SPLICES, EMBEDMENTS, BAR SUPPORTS, SPACERS, AND ACCESSORIES AS RECOMMENDED IN THE LATEST EDITION OF THE "ACI DETAILING MANUAL". ACCESSORIES, SUCH AS SLAB BOLSTERS AND BEAM AND SLAB CHAIRS, IN CONTACT WITH EXPOSED SURFACES, SHALL BE ZINC COATED AND PLASTIC TIPPED.

C11. REINFORCING STEEL DETAILS NOT SHOWN ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE "ACI DETAILING MANUAL 2004".

C12. CLEAR CONCRETE COVER FOR REINFORCING BARS OR WELDED WIRE FABRIC SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED:
- A. FOOTINGS: — 3"
- B. FOUNDATION WALLS: — 1-1/2"
- C. PILASTERS: — 1-1/2" TO TIES
- D. PIERS: — 1-1/2" TO TIES
- E. INTERIOR SLABS ON GRADE: — 1-1/2" FROM TOP
- F. EXTERIOR SLABS ON GRADE: — MID-DEPTH
- G. TOPPINGS ON METAL DECK: — 1" FROM TOP

C13. SET AND TIE ALL REINFORCING STEEL BEFORE PLACING CONCRETE. SETTING DOWELS AND REINFORCING STEEL INTO WET CONCRETE IS PROHIBITED.

C14. NO REINFORCING STEEL SHALL BE CUT OR OMITTED IN THE FIELD BECAUSE OF CONFLICT WITH SLEEVES, DUCT OPENINGS, OR RECESSES. REINFORCING STEEL MAY BE MOVED ASIDE WITHOUT CHANGE IN LEVEL, WITH THE APPROVAL OF THE ARCHITECT.

C15. NO CHASES, RECESS, OPENINGS, OR SLEEVES SHALL BE INSTALLED IN CONCRETE WITHOUT APPROVAL OF THE ARCHITECT.

C16. NO CONDUITS SHALL BE PLACED IN CONCRETE SLABS ON METAL DECK.

C17. KEYS SHALL BE A MINIMUM OF 2" x 4" WITH BEVELED SIDES, UNLESS NOTED OTHERWISE.

C18. DOWELS AND ANCHOR RODS SHALL BE SET BY TEMPLATE. SET EMBEDDED ITEMS FOR CONNECTION OF OTHER WORK ACCURATELY.

C19. HORIZONTAL CONSTRUCTION JOINTS SHALL BE AS INDICATED ON THE DRAWINGS. VERTICAL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE ARCHITECT. CONSTRUCTION JOINTS SHALL BE FORMED WITH A STANDARD KEY AND ALL REINFORCING STEEL EXTENDED A MINIMUM OF 40 DIAMETERS, UNLESS NOTED. ALL CONSTRUCTION JOINTS BELOW GRADE SHALL HAVE CONTINUOUS BENTONITE WATERSTOPS.

C20. CONSTRUCTION AND CONTROL JOINT LOCATIONS OTHER THAN THOSE SHOWN ON THE DRAWINGS MAY BE PERMITTED SUBJECT TO THE PRIOR APPROVAL OF THE ARCHITECT. EXPANSION JOINT LOCATIONS ARE MANDATORY AS SHOWN.

C21. SEE ARCHITECTURAL AND SITE DRAWINGS FOR FINISHES, DEPRESSIONS, REGLETS, NOTCHES, AND OTHER ARCHITECTURAL FEATURES.

C22. PROVIDE CONCRETE PADS FOR MECHANICAL EQUIPMENT ACCORDING TO THE REQUIREMENTS OF THE MANUFACTURER AND IN ACCORDANCE WITH THE TYPICAL DETAILS. COORDINATE LOCATIONS WITH M.E.P. WORK.

C23. PROVIDE SEALANT FOR ALL EXPOSED-TO-VIEW CONSTRUCTION JOINTS, CONTROL JOINTS, AND SHEAR KEYS.

C24. EXPOSED EDGES OF CONCRETE ELEMENTS SHALL HAVE A 1-INCH CHAMFER UNLESS NOTED OTHERWISE.

C25. NOT ALL OPENINGS THROUGH CONCRETE SLABS AND WALLS ARE SHOWN ON STRUCTURAL DRAWINGS. OPENINGS INDICATED, OR ANY ADDITIONAL OPENINGS OR INSERTS REQUIRED, SHALL BE VERIFIED WITH RESPECTIVE TRADES PRIOR TO PLACING CONCRETE.

C26. FLOOR SLABS SHALL BE PLACED TO THE REQUIRED ELEVATIONS, INCLUDING TOLERANCES FOR FLATNESS AND LEVELNESS. SLAB THICKNESSES INDICATED ARE MINIMUM. QUANTITY OF CONCRETE USED SHALL TAKE INTO ACCOUNT THE DEFLECTIONS OF SUPPORTING STRUCTURAL MEMBERS AND FORMS.

UNIT MASONRY (SECTION 042000)

M1. CONCRETE MASONRY CONSTRUCTION WORK SHALL CONFORM TO LATEST EDITION OF "BUILDING CODE REQUIREMENTS AND COMMENTARY FOR MASONRY STRUCTURES (ACI 530/530R)" AND "SPECIFICATIONS FOR MASONRY STRUCTURES AND RELATED COMMENTARIES (ACI 530.1/530.1R)". CONCRETE MASONRY WALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOW LIFT GROUTING METHOD.

M2. CONCRETE MASONRY STRENGTH (f'm) SHALL NOT BE LESS THAN 1500 PSI WITH SPECIAL INSPECTION.

M3. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, NORMAL WEIGHT, TYPE 1 AND TO NCMA "REQUIREMENTS FOR LOAD BEARING CONCRETE MASONRY". COMPRESSIVE STRENGTH SHALL BE AS REQUIRED FOR SPECIFIED CONCRETE MASONRY STRENGTH (f'm), BUT NOT LESS THAN 1900 PSI FOR THE AVERAGE OF 3 UNITS OR 1700 PSI FOR AN INDIVIDUAL UNIT, BASED ON THE AVERAGE NET AREA.

M4. MORTAR FOR REINFORCED CMU SHALL CONFORM TO ASTM C270, TYPE M OR S, AND HAVE A 28-DAY COMPRESSIVE STRENGTH EQUAL TO THE SPECIFIED CONCRETE MASONRY STRENGTH (f'm), BUT NOT LESS THAN 1800 PSI.

M5. GROUT SHALL CONFORM TO ASTM C476, FINE TYPE, AND HAVE A 28-DAY COMPRESSIVE STRENGTH EQUAL TO THE SPECIFIED CONCRETE MASONRY STRENGTH (f'm), BUT NOT LESS THAN 3000 PSI.

M6. GROUTING SHALL BE LIMITED TO A MAXIMUM WALL HEIGHT OF 5'-4" PER LIFT.

M7. HORIZONTAL JOINT REINFORCEMENT SHALL CONFORM TO ASTM A82, LADDER TYPE, #9 WIRE. PROVIDE PREFABRICATED CORNERS AND TEES.

M8. MINIMUM HORIZONTAL JOINT REINFORCEMENT FOR WALLS AND PARTITIONS SHALL BE #9 WIRE SPACED VERTICALLY AT 16"o.c. AT A MINIMUM, PROVIDE A BOND BEAM, WITH 2-#5 HORIZONTAL AND CONTINUOUS BARS, AT EACH FLOOR LEVEL AND AT THE TOP OF WALL.

M9. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED BARS. LAP ALL CONTINUOUS BARS A MINIMUM OF 48 DIAMETERS.

M10. STAIR AND ELEVATOR SHAFT WALLS SHALL BE FULLY GROUTED SOLID AND IN ADDITION TO HORIZONTAL REINFORCEMENT SHALL BE REINFORCED VERTICALLY WITH A MINIMUM OF #5 BARS AT 32" O.C., UNLESS NOTED.

M11. THE TOP OF CMU WALLS AND PARTITIONS SHALL BE ANCHORED AS SHOWN IN THE TYPICAL DETAILS AND THE SECTIONS.

M12. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED FIRE RATINGS.

STRUCTURAL STEEL FRAMING (SECTION 051200)

S1. STRUCTURAL STEEL WORK SHALL CONFORM TO THE LASTEST EDITIONS OF AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AS MODIFIED BY THE SPECIFICATIONS.

S2. WELDING SHALL BE IN ACCORDANCE WITH THE LATEST AWS "D1.1-STRUCTURAL WELDING CODE-STEEL".

S3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED:
- A. PLATES AND OTHER SHAPES (OTHER THAN W & WT) — ASTM A36 — Fy = 36KSI
- B. HOLLOW STRUCTURAL SECTIONS — ASTM A500 GRADE C — Fy = 50KSI (SQUARE & RECTANGULAR)
  - ASTM A500 GRADE B — Fy = 42KSI (ROUND)
- C. STRUCTURAL PIPE — ASTM A53 GRADE B — Fy = 35 KSI
- D. W & WT SHAPES — ASTM A992 OR A572 — Fy = 50KSI
- E. PLATE GIRDERS — ASTM A572 — Fy = 50KSI

S4. CONNECTIONS MAY BE BOLTED OR WELDED, UNLESS SPECIFICALLY NOTED OTHERWISE. CONNECTIONS SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH AISC STANDARDS, USING THE ASD METHOD.

S5. CONNECTIONS SHALL BE WELDED TO CONFORM TO ASTM A233, E70 SERIES, OR BOLTED TO CONFORM TO ASTM A325, TYPE N BOLTS.

S6. PROVIDE 3/4" DIAMETER MINIMUM HEADED TYPE ANCHOR RODS AT COLUMNS AND POSTS, UNLESS NOTED OTHERWISE.

S7. FURNISH AND INSTALL ONE WASHER AND ONE HEAVY HEX NUT WITH ALL ANCHOR RODS, UNLESS NOTED OTHERWISE.

S8. SIMPLY SUPPORTED BEAM-TO-BEAM CONNECTIONS SHALL BE DOUBLE ANGLE TYPE IN CONFORMANCE WITH THE AISC "MANUAL OF STEEL CONSTRUCTION"; UNLESS SPECIFICALLY NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.

S9. PROVIDE A 1/4" THICK LEVELING PLATE UNDER EACH COLUMN BASE PLATE FOR USE IN ALIGNING ANCHOR RODS AND BASE PLATES. LEVELING PLATE SHALL BE SET AND GROUTED WITH AN APPROVED NON-SHRINK, NON-METALLIC GROUT. GROUT SHALL HAVE ATTAINED DESIGN STRENGTH BEFORE ERECTION OF COLUMN.

S10. PROVIDE A 1/4" THICK MINIMUM CAP PLATE WELDED AT TOP OF HSS COLUMNS, UNLESS NOTED.

S11. PROVIDE A MINIMUM OF A 3/8" THICK WEB STIFFENER PLATE EACH SIDE OF A BEAM OVER A COLUMN OR AT A BEAM UNDER A COLUMN.

S12. SPLICING STRUCTURAL MEMBERS WHERE NOT DETAILED ON DRAWINGS IS PROHIBITED WITHOUT PRIOR APPROVAL OF ARCHITECT.

S13. STRUCTURAL STEEL EXPOSED TO THE WEATHER IN THE FINISHED PROJECT SHALL BE HOT DIP GALVANIZED TO CONFORM TO ASTM A123.

S14. STRUCTURAL STEEL EXPOSED TO VIEW IN THE COMPLETED PROJECT SHALL BE EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.). REFER TO THE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

S15. REFER TO THE SPECIFICATION FOR PAINTING AND SURFACE PREPARATION REQUIREMENTS.

S16. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE NEW STRUCTURE FOR WIND AND CONSTRUCTION LOADS. TEMPORARY SUPPORTS SHALL REMAIN IN PLACE UNTIL ALL ELEMENTS REQUIRED FOR STABILITY OF THE STEEL FRAME ARE COMPLETED.

SHEAR CONNECTORS (SECTION 051226)

SC1. SHEAR CONNECTORS SHALL BE HEADED STUDS CONFORMING TO ASTM A108, GRADES 1010, 1015, OR 1020.

SC2. SHEAR CONNECTORS SHALL BE 3/4" DIAMETER WITH A LENGTH EQUAL TO TOTAL SLAB THICKNESS MINUS 1 1/2 INCHES UNLESS NOTED OTHERWISE THE NUMBER OF SHEAR CONNECTORS REQUIRED PER BEAM IS INDICATED THUS (X) ON THE DRAWINGS. INSTALL CONNECTORS UNIFORMLY ALONG THE LENGTH OF THE BEAM UNLESS NOTED. INSTALL AT LEAST ONE CONNECTOR PER FOOT OF BEAM LENGTH ON ALL BEAMS SUPPORTING CONCRETE SLABS OVER COMPOSITE DECK.

STEEL JOIST FRAMING (SECTION 052100)

J1. STEEL JOIST WORK SHALL CONFORM TO THE LATEST EDITION OF SJI "STANDARD SPECIFICATIONS, LOAD TABLES, AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS".

J2. PROVIDE BOTTOM CHORD EXTENSIONS WITH SLIP CONNECTIONS AT COLUMNS FOR LATERAL STABILITY.

J3. PROVIDE TOP AND BOTTOM CHORD EXTENSIONS AND CEILING EXTENSIONS AS INDICATED ON THE DRAWINGS.

J4. SUSPENDED LOADS SHALL BE LOCATED AT THE TOP CHORD PANEL POINT OF JOIST. SUBMIT MANUFACTURER'S WEIGHT DATA AND UNIT LOCATION FOR APPROVAL OF THE ARCHITECT PRIOR TO PROCEEDING.

J5. LONGSPAN STEEL JOISTS (LH-SERIES) AND DEEP LONGSPAN STEEL JOISTS (DLH-SERIES) SHALL BE WELDED TO SUPPORTING STRUCTURAL STEEL WITH A 1/4" MINIMUM FILLET WELD, 3" MINIMUM LENGTH, EACH SIDE OF JOIST SEAT.

J6. INSTALL BOLTED TIE JOISTS ON ALL COLUMN LINES. TIE JOISTS TO BE WELDED WITH THE WELDS MENTIONED ABOVE AFTER BUILDING HAS BEEN PLUMBED.

J7. BRIDGING SHALL BE IN ACCORDANCE WITH THE SJI STANDARD SPECIFICATIONS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. BOTTOM CHORD BRIDGING SHALL BE PROVIDED AT THE FIRST BOTTOM CHORD PANEL OF ROOF STEEL JOISTS.

J8. ROOF STEEL JOISTS SHALL BE DESIGNED FOR A NET UPLIFT OF XX POUNDS PER SQUARE FOOT AT INTERIOR ROOF ZONES, XX POUNDS PER SQUARE FOOT AT EXTERIOR ROOF ZONES (WITHIN XX FEET OF ROOF EDGES), AND XX POUNDS PER SQUARE FOOT AT CORNER ROOF ZONES (OVERLAPPING PORTION OF XX FOOT WIDE EXTERIOR ZONES).

J9. ALL JOISTS SHALL BE CAMBERED WITH A STANDARD CAMBER IN ACCORDANCE WITH THE SJI STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.

J10. STEEL JOISTS SHALL HAVE PARALLEL CHORDS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

J11. STEEL JOISTS SHALL EXTEND A MINIMUM OF 1" BEYOND THE CENTER OF THE SUPPORTING STRUCTURAL STEEL BEAM, UNLESS NOTED OTHERWISE.

STEEL DECK (SECTION 053100)

D1. STEEL DECK WORK SHALL CONFORM TO "SPECIFICATION FOR DESIGN OF LIGHT GAUGE COLD-FORMED STEEL STRUCTURAL MEMBERS (AISI)"; "STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS"; "STRUCTURAL STEEL WELDING CODE - STEEL (AWS D1.1)"; AND "STRUCTURAL WELDING CODE - SHEET STEEL (AWS D1.3)".

D2. COMPOSITE STEEL FLOOR DECK SHALL BE MADE FROM STEEL CONFORMING TO ASTM A653 - MINIMUM GRADE 40 (Fy = 40 KSI) AND GALVANIZED IN ACCORDANCE WITH ASTM A653, COATING CLASS G60. COMPOSITE STEEL FLOOR DECK TYPE, DEPTH, AND GAUGE SHALL BE AS NOTED ON THE DRAWINGS.

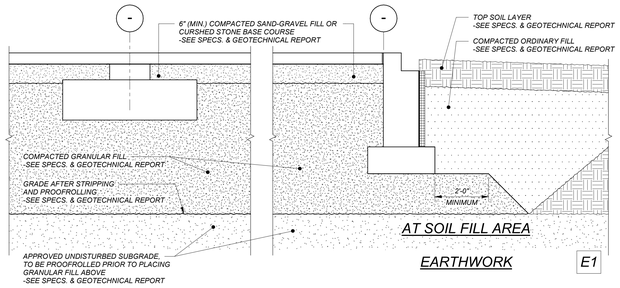
D3. STEEL ROOF DECK SHALL BE MADE FROM STEEL CONFORMING TO ASTM A653 - GRADE 33 (Fy = 33 KSI) AND GALVANIZED IN ACCORDANCE WITH ASTM A653, COATING CLASS G60. STEEL ROOF DECK TYPE, DEPTH, AND GAUGE SHALL BE AS NOTED ON THE DRAWINGS.

D4. PROVIDE CONTINUOUS POUR STOP ANGLES WITH RETURN LIP AT BUILDING PERIMETER AND AT ALL INTERIOR OPENINGS. REFER TO THE SCHEDULE FOR GAUGE.

D5. COMPOSITE STEEL FLOOR DECK SHALL BE ATTACHED TO THE SUPPORTING STRUCTURE WITH THE FOLLOWING MINIMUM REQUIREMENTS:
- A. PANEL ENDS AND END LAPS — 5/8"Ø PUDDLE WELD AT 12" o.c. MAX.
- B. INTERMEDIATE SUPPORTS — 5/8"Ø PUDDLE WELD AT 12" o.c. MAX.
- C. LONGITUDINAL EDGES AT SIDE SUPPORTS — 5/8"Ø PUDDLE WELD AT 12" o.c. MAX.
- D. SIDE LAPS OF ADJACENT UNITS — BUTTON PUNCHED AT 24" o.c. MAX.

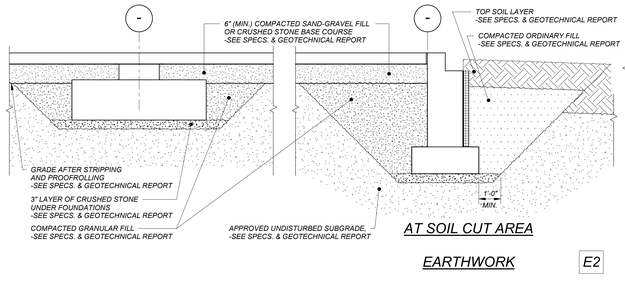
D6. STEEL ROOF DECK SHALL BE ATTACHED TO THE SUPPORTING STRUCTURE WITH THE FOLLOWING MINIMUM REQUIREMENTS:
- A. PANEL ENDS AND END LAPS — 5/8"Ø PUDDLE WELD AT EACH RIB
- B. INTERMEDIATE SUPPORTS — 5/8"Ø PUDDLE WELD AT EACH RIB
- C. LONGITUDINAL EDGES A SIDE SUPPORTS — 5/8"Ø PUDDLE WELD AT 12" o.c. MAX.
- D. SIDE LAPS OF ADJACENT UNITS — #12 SCREWS AT 24" o.c. MAX.

D7. CELLULAR ACOUSTIC STEEL ROOF DECK SHALL BE ATTACHED TO THE SUPPORTING STRUCTURE WIT



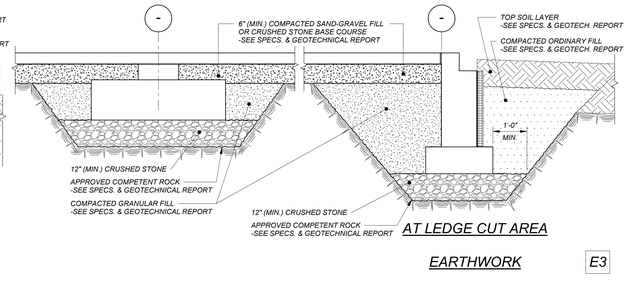
AT SOIL FILL AREA

EARTHWORK E1



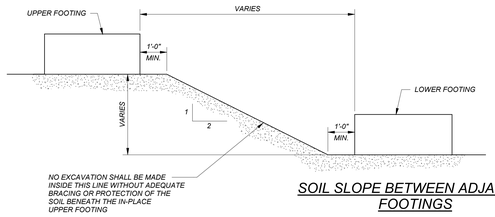
AT SOIL CUT AREA

EARTHWORK E2



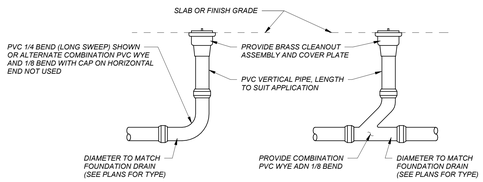
AT LEDGE CUT AREA

EARTHWORK E3



SOIL SLOPE BETWEEN ADJACENT FOOTINGS

EARTHWORK E4

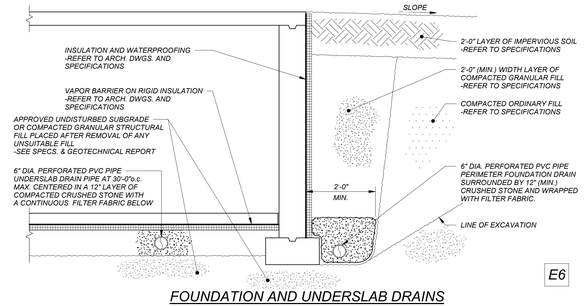


NOTES:

1. GENERAL CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING FOR THE CORRECT PLACEMENT AND TO PREVENT DAMAGE OF THE FOUNDATION DRAIN AND CLEANOUT SYSTEM.
2. PIPING AND CLEANOUT MATERIALS SHALL MATCH MATERIALS OF FOUNDATION DRAIN UNLESS NOTED OTHERWISE.

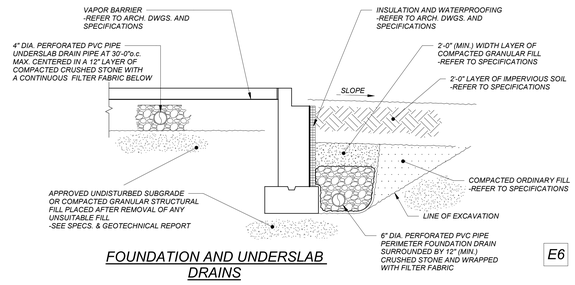
FOUNDATION DRAIN CLEANOUT

EARTHWORK E5



FOUNDATION AND UNDERSLAB DRAINS

E6



FOUNDATION AND UNDERSLAB DRAINS

E6

THESE SOIL PROFILE DIAGRAMS, THAT ARE PROVIDED AS A GUIDE, ARE AN ADAPTATION OF THE GEOTECHNICAL DATA INCLUDED IN THE JANUARY 15, 2020 REPORT PREPARED BY G2A GEOENVIRONMENTAL, INC. FILE NO. 01.0174490.00 AND SHOULD BE VERIFIED BY THE CONTRACTOR. ACTUAL CONDITIONS MAY VARY.

EARTHWORK NOTES: (ALL SECTIONS)

1. *REMOVE ALL VEGETATION, TOPSOIL, SUBSOIL, AND EXISTING FILL TO TOP OF UNDISTURBED GLACIAL TILL OR LEDGE FROM BELOW PROPOSED BUILDING AREA (WITH PROJECTIONS AS SHOWN ABOVE) AND AS INDICATED IN THE SPECIFICATIONS.*
2. *PROOFROLL/COMPACT EXISTING SUBGRADE PRIOR TO THE PLACEMENT OF BACKFILL AND/OR FOOTING CONSTRUCTION. PLACE COMPACTED GRANULAR FILL AS SPECIFIED IN THE SPECIFICATIONS WITHIN THE PROPOSED BUILDING AREA (WITH PROJECTIONS SHOWN ABOVE), UP TO THE BOTTOM OF THE PROPOSED SLAB BASE COURSE LEVEL.*
3. *WHERE BEDROCK/FRACTURED-ROCK/LARGE BOULDER(S) ARE ENCOUNTERED AT THE BOTTOM OF FOUNDATION LEVELS, REMOVE THE BEDROCK/BOULDER TO AT LEAST ONE FOOT BELOW THE BOTTOM OF FOUNDATIONS AND REPLACE IT WITH COMPACTED CRUSHED STONE.*
4. *WHERE SILTY/CLAYEY SOILS ARE ENCOUNTERED AT FOUNDATION SUBGRADE, THE CONTRACTOR SHALL CONSTRUCT A WORKING MAT TO PREVENT DISTURBANCE OF FOUNDATION SUBGRADES. THE WORKING MAT SHALL CONSIST OF 3-INCHES OF CRUSHED STONE. ALL DISTURBED SUBGRADES SHALL BE OVER-EXCAVATED TO FIRM AND STABLE GROUND AND REPLACED BY LEAN CONCRETE.*
5. *PLACE A MINIMUM 6" LAYER OF COMPACTED SAND-GRAVEL FILL OR CRUSHED STONE BELOW BUILDING SLAB FOR SLAB BASE COURSE.*
6. *REFER TO THE SPECIFICATIONS AND GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.*
7. *REFER TO THE BORING AND TEST PIT LOGS FOR DESCRIPTION OF SUBSURFACE CONDITIONS AT THE LOCATIONS OF THE EXPLORATIONS.*

GENERAL EARTHWORK SCHEMATIC SECTIONS WITHIN PROPOSED BUILDING AREA

NO SCALE

GENERAL EARTHWORK SCHEMATIC SECTIONS WITHIN PROPOSED BUILDING AREA

NO SCALE

AMESBURY ELEMENTARY SCHOOL

AMESBURY, MA

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architects + planners
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Boston, MA 02111
(617) 426-2858

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Framingham, MA 01701
(508) 879-0030

Brown Sardina, Inc.
Landscape Architects
24 Roland Street
Boston, MA 02129
(617) 482-4703

Foley Buhl Roberts & Assoc., Inc.
Structural Engineers
2150 Washington Street
Newton, MA 02462
(617) 527-9600

Crabtree McGrath Assoc., Inc.
Food Service Consultants
161 West Main Street
Georgetown, MA 01833
(978) 352-8500

VAV International, Inc.
Mechanical Engineers
400 West Cummings Park S. 4700
Woburn, MA 01801
(781) 935-7228

Thompson Engineering Company, Inc.
Electrical Engineers
89 Newbury Street, Suite 103
Danvers, MA 01923
(617) 866-9066

EdVance Technology Design, Inc.
Technology Consultants
300 Brickstone Square, Suite 201
Andover, MA 01880
(978) 256-9900

KEY PLAN

NORTH ARROW *LICENSE STAMP*

Date 15 MAY 2020

Drawn By CMPD

Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Typical Details I

2.1.02

2018119

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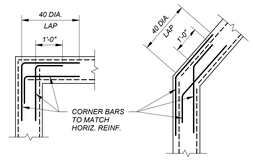
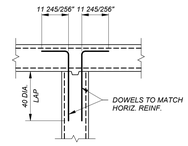


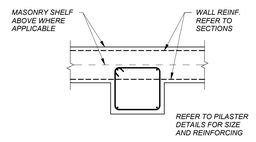
CORNER

CONCRETE WALLS CW1



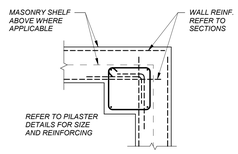
INTERSECTION

CONCRETE WALLS CW2



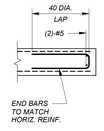
EDGE PILASTER

CONCRETE WALLS CW3



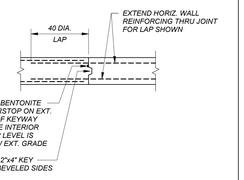
CORNER PILASTER

CONCRETE WALLS CW4



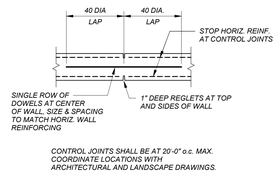
END

CONCRETE WALLS CW5



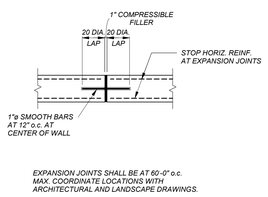
CONSTRUCTION JOINT

CONCRETE WALLS CW6



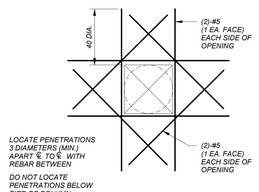
CONTROL JOINT AT SITE WALLS ONLY

CONCRETE WALLS CW7



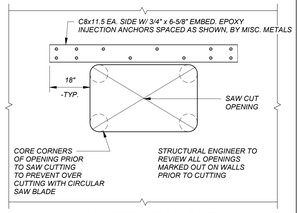
EXPANSION JOINT AT SITE WALLS ONLY

CONCRETE WALLS CW8



PENETRATIONS

CONCRETE WALLS CW9



WALL PENETRATION CUTTING

CONCRETE WALLS CW10

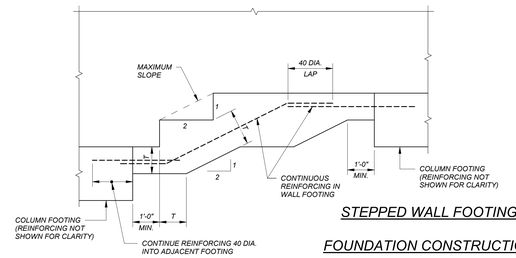
WALL THICKNESS	NO. OF ROWS EACH WAY	HORIZONTAL REINF.	VERTICAL REINF.
6" TO 8"	1	#4 @ 9"	#4 @ 9"
9" TO 11"	2	#4 @ 12"	#4 @ 12"
12" TO 14"	2	#4 @ 12"	#4 @ 12"
15" TO 17"	2	#5 @ 12"	#4 @ 12"
18" TO 20"	2	#5 @ 12"	#4 @ 12"

NOTES:

1. WALLS OF FRACTIONAL THICKNESS SHALL BE ROUNDED OFF TO THE NEXT HIGHEST THICKNESS.
2. WALL THICKNESSES NOT SHOWN SHALL BE A MULTIPLE OF THOSE INDICATED.

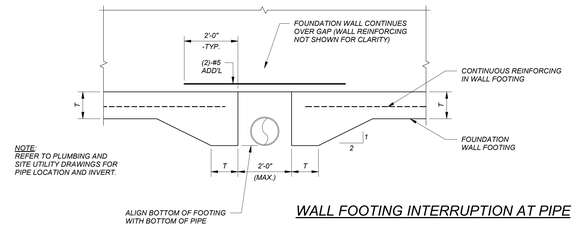
MINIMUM WALL REINFORCING

CONCRETE WALLS CW11



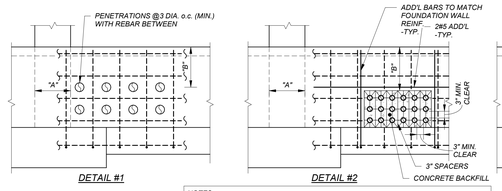
STEPPED WALL FOOTING

FOUNDATION CONSTRUCTION CF1



WALL FOOTING INTERRUPTION AT PIPE

FOUNDATION CONSTRUCTION CF2

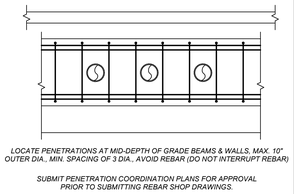


NOTES:

A. DO NOT PENETRATE PIER OR COLUMN BEARING ZONES
B. DO NOT PENETRATE THE TOP 18" OF WALL BELOW THE MASONRY SHELF OR TOP 2 LAYERS OF HORIZ. REBAR
C. SUBMIT PENETRATION COORDINATION PLANS FOR APPROVAL PRIOR TO SUBMITTING REBAR SHOP DRAWINGS
D. REFER TO MEP AND SITE UTILITIES DWGS. FOR LOCATIONS AND INVERTS

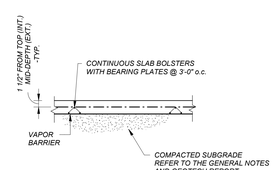
FOUNDATION WALL PENETRATION DETAILS

FOUNDATION CONSTRUCTION CF3



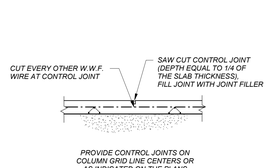
PENETRATIONS THROUGH GRADE BEAMS

FOUNDATION CONSTRUCTION CF4



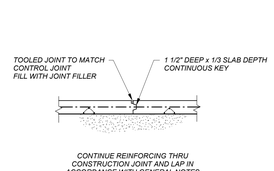
GENERAL CONSTRUCTION

SLAB ON GRADE CS1



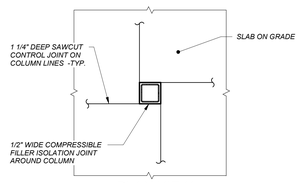
CONTROL JOINT

SLAB ON GRADE CS2



CONSTRUCTION JOINT

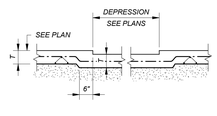
SLAB ON GRADE CS3



PLAN VIEW

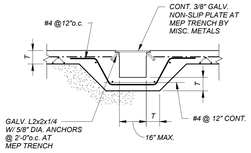
CONTROL JOINT

SLAB ON GRADE CSX



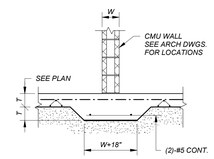
DEPRESSION

SLAB ON GRADE CS4



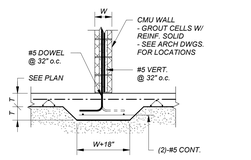
TRENCH DRAIN

SLAB ON GRADE CS5



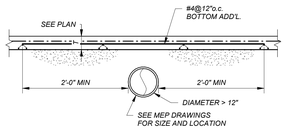
AT NON-BEARING, FULL HEIGHT, INTERIOR CMU WALL

SLAB ON GRADE CS6



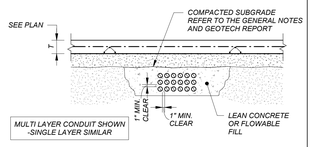
AT NON-BEARING, PARTIAL HEIGHT, INTERIOR CMU WALL

SLAB ON GRADE CS6



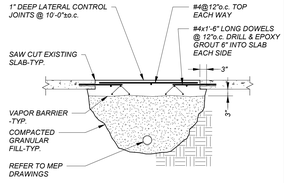
OVER BURIED M.E.P.

SLAB ON GRADE CS8



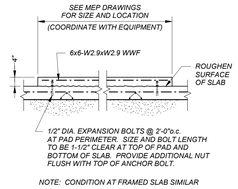
EMBEDDED CONDUIT

SLAB ON GRADE CS9



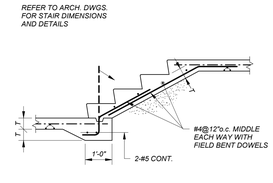
TRENCH REPAIR

SLAB ON GRADE CS10



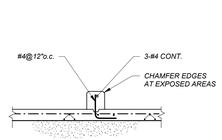
HOUSEKEEPING PAD

SLAB ON GRADE CS11



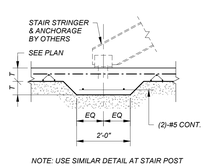
STAIR

SLAB ON GRADE CS12



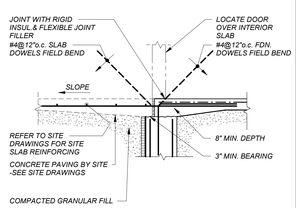
CURB

SLAB ON GRADE CS13



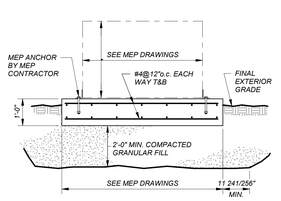
STAIR BEARING

SLAB ON GRADE CS7



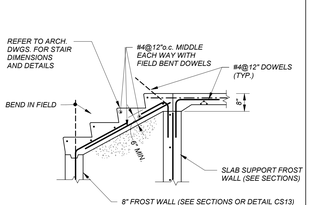
SITE PAVING AT ENTRY

SLAB ON GRADE CS14



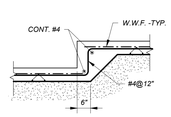
EQUIPMENT PAD

SLAB ON GRADE CS15



STAIR

SLAB ON GRADE CS12



SLAB STEP DETAIL

SLAB ON GRADE CS23

AMESBURY ELEMENTARY SCHOOL

AMESBURY, MA

DINISCO DESIGN architects + planners
99 Chauncy Street, Suite 901
Boston, MA 02111
(617) 426-2858

DGT Associates
Surveying & Engineers
1071 Worcester Road
Framingham, MA 01701
(508) 879-0030

Brown Sardina, Inc.
Landscape Architects
24 Roland Street
Boston, MA 02129
(617) 482-4703

Foley Buhl Roberts & Assoc., Inc.
Structural Engineers
2150 Washington Street
Newton, MA 02462
(617) 527-9600

Crabtree McGrath Assoc., Inc.
Food Service Consultants
161 West Main Street
Georgetown, MA 01833
(978) 352-8500

VAV International, Inc.
Mechanical Engineers
400 West Cummings Park S. 4700
Woburn, MA 01801
(781) 935-7228

Thompson Engineering Company, Inc.
Electrical Engineers
89 Newbury Street, Suite 103
Danvers, MA 01923
(617) 866-9066

EdVance Technology Design, Inc.
Technology Consultants
300 Brickstone Square, Suite 201
Andover, MA 01880
(978) 256-9900

KEY PLAN

N Called North

NORTH ARROW | LICENSE STAMP

Date 15 MAY 2020

Drawn By CMPD

Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Typical Details II

2.1.03

2018119

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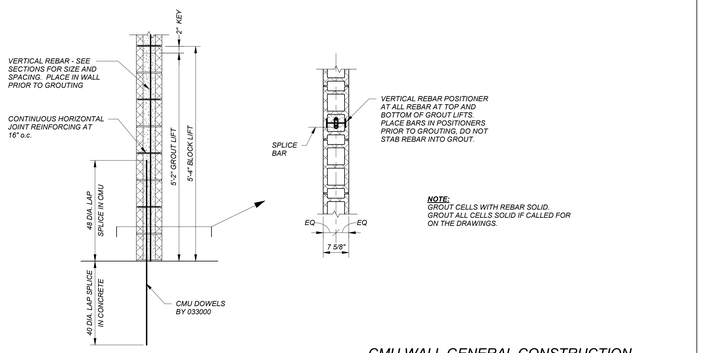
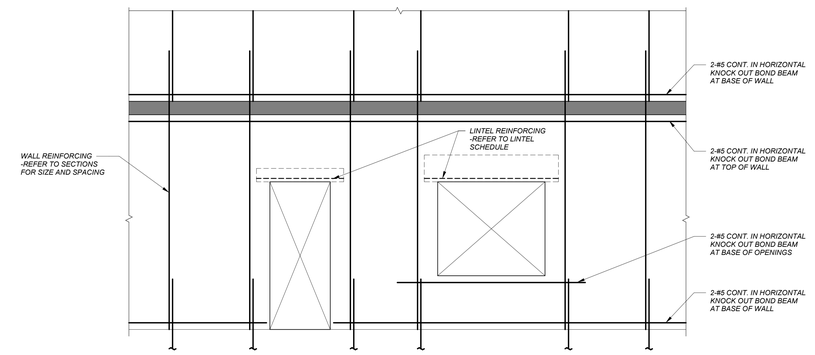


NOTE:
GROUT CELLS WITH REBAR SOLID.
GROUT ALL CELLS SOLID IF CALLED FOR ON THE DRAWINGS.

CMU WALL GENERAL CONSTRUCTION

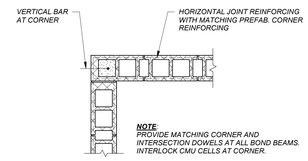
MASONRY CONSTRUCTION M1



NOTE:
GROUT CMU CELLS WITH REINFORCING SOLID.
GROUT ENTIRE WALL 100% SOLID IF CALLED FOR IN THE SECTIONS AND NOTES.

CMU WALL ELEVATION

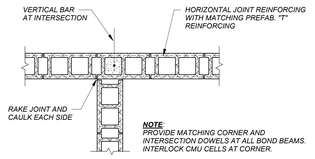
MASONRY CONSTRUCTION M2



NOTE:
PROVIDE MATCHING CORNER AND INTERSECTION DOWELS AT ALL BOND BEAMS. INTERLOCK CMU CELLS AT CORNER.

CMU WALL CORNER

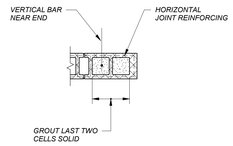
MASONRY CONSTRUCTION M3



NOTE:
PROVIDE MATCHING CORNER AND INTERSECTION DOWELS AT ALL BOND BEAMS. INTERLOCK CMU CELLS AT CORNER.

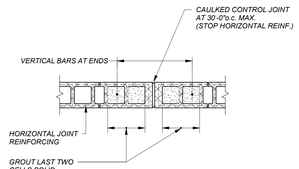
CMU WALL INTERSECTION

MASONRY CONSTRUCTION M4



CMU WALL END AND JAMB

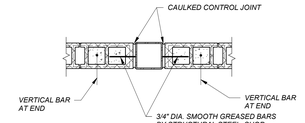
MASONRY CONSTRUCTION M5



SEE PLANS FOR LOCATIONS

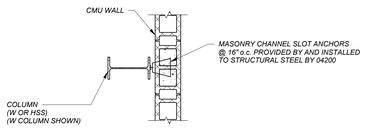
CMU WALL CONTROL JOINT

MASONRY CONSTRUCTION M6



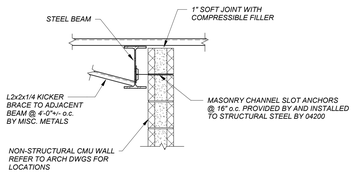
CMU WALL TO COLUMN SLIP CONNECTION

MASONRY CONSTRUCTION M7



CMU WALL ANCHORAGE TO COLUMN

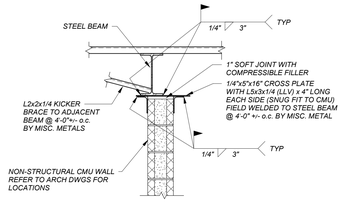
MASONRY CONSTRUCTION M8



REFER TO ARCH. DRAWINGS FOR WALL LOCATIONS AND THICKNESSES.

CMU WALL ANCHORAGE TO BEAM SIDE

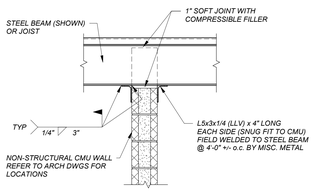
MASONRY CONSTRUCTION M9



REFER TO ARCH. DRAWINGS FOR WALL LOCATIONS AND THICKNESSES.

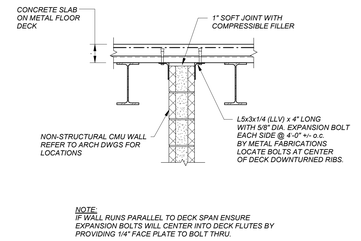
CMU WALL ANCHORAGE TO BEAM BOTTOM

MASONRY CONSTRUCTION M10



CMU WALL ANCHORAGE TO BEAM BOTTOM

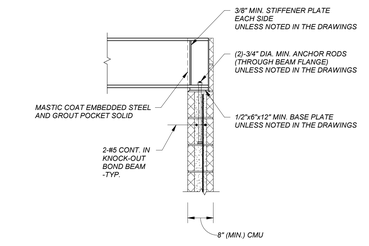
MASONRY CONSTRUCTION M11



NOTE:
IF WALL RUNS PARALLEL TO DECK SPAN ENSURE EXPANSION BOLTS WILL CENTER INTO DECK FLUTES BY PROVIDING 1/4" FACE PLATE TO BOLT THRU.

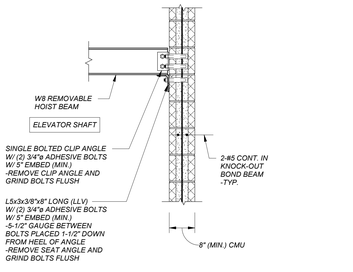
CMU WALL ANCHORAGE TO SLAB BOTTOM

MASONRY CONSTRUCTION M12



BEAM BEARING ON CMU

MASONRY CONSTRUCTION M20



REMOVABLE ELEVATOR HOIST BEAM

MASONRY CONSTRUCTION M22

LOOSE LINTEL SCHEDULE AT MASONRY

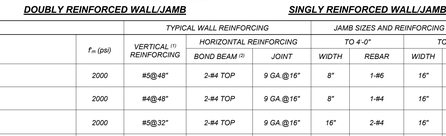
(BY MISC. METAL)

MASONRY OPENING	LINTEL SIZE		MIN. BEARING AT EACH END
UP TO 3'-0"	L3-1/2 x 3-1/2 x 5/16		8"
3'-1" TO 4'-6"	L4 x 3-1/2 x 5/16	(4" LEG VERT.)	8"
4'-7" TO 6'-0"	L5 x 3-1/2 x 3/8	(5" LEG VERT.)	8"
6'-1" TO 8'-0"	L6 x 3-1/2 x 3/8	(6" LEG VERT.)	8"

NOTES:
1. PROVIDE LINTELS OVER ALL OPENINGS (INCLUDING M.E.P. OPENINGS EXCEPT WHERE LINTEL BLOCKS ARE PROVIDED.
2. PROVIDE ONE ANGLE FOR EACH 4" OF WALL THICKNESS. FOR 6" WALLS, PROVIDE A TEE OR BUILT-UP SECTION WITH PROPERITES EQUAL TO OR GREATER THAN 1.5 TIMES THE ANGLE PROPERTIES FOR A 4" WALL THICKNESS.
3. ALL EXTERIOR LINTELS SHALL BE GALVANIZED BY THE HOT DIP PROCESS.

LOOSE LINTEL SCHEDULE AT MASONRY

MASONRY CONSTRUCTION M15



DOUBLY REINFORCED WALL/JAMB **SINGLY REINFORCED WALL/JAMB**

TYPE	WALL DESCRIPTION	f'_m (psi)	TYPICAL WALL REINFORCING: VERTICAL [1] REINFORCING	HORIZONTAL REINFORCING: BOND BEAM [2]	HORIZONTAL REINFORCING: JOINT	JAMB SIZES AND REINFORCING [3] (SEE DETAIL ABOVE) FOR OPENINGS: TO 4'-0" WIDTH	TO 4'-0" REBAR	TO 6'-4" WIDTH	TO 6'-4" REBAR	TO 10'-0" WIDTH	TO 10'-0" REBAR
A	12" INTERIOR WALL (32'-0" MAX HEIGHT)	2000	#5@48"	2-#4 TOP	9 GA.@16"	8"	1-#6	16"	2-#6	24"	3-#6
B	10" INTERIOR WALL (26'-0" MAX HEIGHT)	2000	#4@48"	2-#4 TOP	9 GA.@16"	8"	1-#4	16"	2-#4	24"	3-#4
C	8" EXTERIOR WALL (14'-0" MAX HEIGHT)	2000	#5@32"	2-#4 TOP	9 GA.@16"	16"	2-#4	16"	2-#5	24"	3-#5
D	8" INTERIOR WALL (16'-0" MAX HEIGHT)	1500	#4@48"	2-#4 TOP	9 GA.@16"	8"	1-#4	8"	1-#4	16"	2-#4
E	6" INTERIOR WALL (16'-0" MAX HEIGHT)	1500	#4@48"	2-#4 TOP	9 GA.@16"	8"	1-#4	8"	1-#4		
F	6" EXTERIOR WALL (14'-0" MAX HEIGHT)	1500	#4@32"	2-#4 TOP	9 GA.@16"						

NOTES:
1. PROVIDE SINGLE LAYER OF VERTICAL REINFORCING CENTERED IN WALL EXCEPT WHERE NOTED E.F. (EACH FACE) POSITION BARS WITH A TWIN BAR POSITIONER.
2. PROVIDE BOND BEAMS AT TOP OF ALL WALLS AND BELOW ALL BEAM BEARING POCKETS.
3. ADDITIONAL REINFORCING REQUIRED AT CORNERS AND ENDS OF WALLS PER TYPICAL DETAILS.
4. SEE MASONRY LINTEL SCHEDULE FOR LINTEL REINFORCING REQUIREMENTS.
5. VERTICAL REINFORCING SHALL RUN THE FULL HEIGHT OF THE WALL. ALL CORES IN JAMB "WIDTH" SHALL BE GROUTED SOLID FULL HEIGHT.

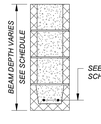
MASONRY WALL REINFORCEMENT SCHEDULE

MASONRY CONSTRUCTION M17

CMU LINTEL BEAM SCHEDULE

MASONRY OPENING	DEPTH	REINFORCING
IN 8" WALLS		
UP TO 4'-0"	2 COURSES	2-#5
4'-1" TO 6'-0"	3 COURSES	2-#5
6'-1" TO 10'-0'	4 COURSES	2-#6
10'-1" TO 14'-0"	5 COURSES	2-#7
IN 12" WALLS		
UP TO 4'-0"	2 COURSES	2-#5
4'-1" TO 6'-0"	3 COURSES	2-#5
6'-1" TO 10'-0"	4 COURSES	2-#6
10'-1" TO 14'-0"	5 COURSES	2-#7

NOTES:
1. PLACE REINFORCING IN THE FIRST COURSE AND OPENING.
2. PROVIDE 12" OF BEARING EACH END ON SOLID GROUTED CMU.
3. PROVIDE TEMPORARY SHORING AS REQUIRED UNTIL LINTEL HAS REACHED FULL 28 DAY STRENGTH.



SECTION

CMU LINTEL BEAM SCHEDULE

MASONRY CONSTRUCTION M18

AMESBURY ELEMENTARY SCHOOL

AMESBURY, MA

DINISCO DESIGN architects + planners
99 Chauncy Street, Suite 901
Boston, MA 02111
(617) 426-2858

DGT Associates
Surveying & Engineers
1071 Worcester Road
Framingham, MA 01701
(508) 879-0030

Brown Sardina, Inc.
Landscape Architects
24 Roland Street
Boston, MA 02129
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Foley Buhl Roberts & Assoc., Inc.
Structural Engineers
2150 Washington Street
Newton, MA 02462
(617) 527-9600

Crabtree McGrath Assoc., Inc.
Food Service Consultants
161 West Main Street
Georgetown, MA 01833
(978) 352-8500

VAV International, Inc.
Mechanical Engineers
400 West Cummings Park S. 4700
Woburn, MA 01801
(781) 935-7228

Thompson Engineering Company, Inc.
Electrical Engineers
89 Newbury Street, Suite 103
Danvers, MA 01923
(617) 866-9066

EdVance Technology Design, Inc.
Technology Consultants
300 Brickstone Square, Suite 201
Andover, MA 01880
(978) 256-9900

KEY PLAN

N Called North

NORTH ARROW LICENSE STAMP

Date 15 MAY 2020
Drawn By CMPD
Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Typical Details III

2.1.04

2018119

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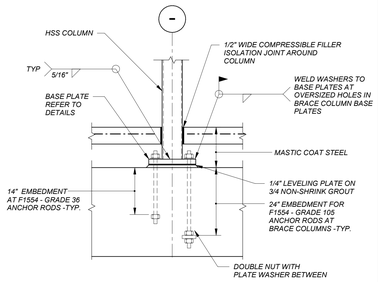
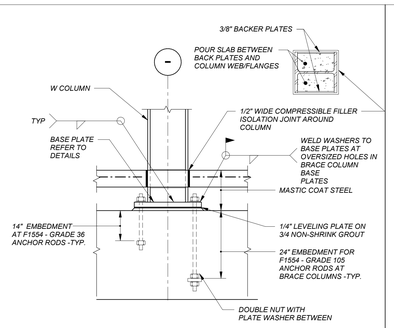


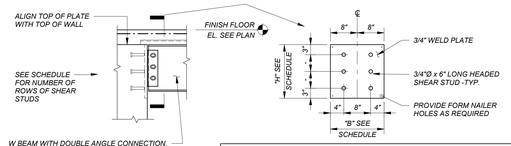
HSS COLUMN BASE DETAIL

STEEL CONSTRUCTION S1



W COLUMN BASE DETAIL

STEEL CONSTRUCTION S2

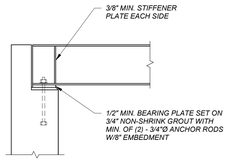


EMBEDDED WELD PLATE SCHEDULE

W SHAPE	MIN. NO. OF STUD ROWS	MIN. DIMENSIONS B x T x H
W14 OR SMALLER	3	16"x3/4"x1'-4"
W16 TO W18	4	16"x3/4"x1'-9"
W21 TO W24	5	16"x3/4"x2'-2"
HSS10 OR SMALLER	3	16"x3/4"x1'-4"

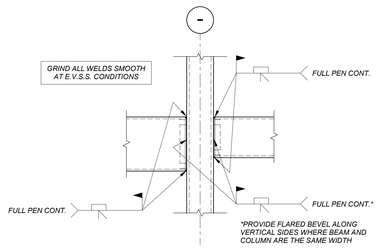
EMBEDDED WELD PLATE BEAM CONNECTION

STEEL CONSTRUCTION S7



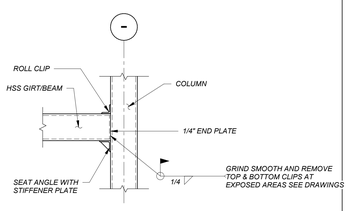
BEAM POCKET CONNECTION

STEEL CONSTRUCTION S8



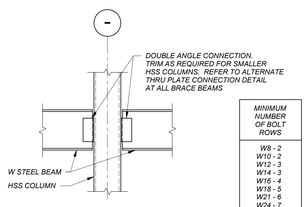
HSS BEAM TO HSS COLUMN MOMENT CONNECTION

STEEL CONSTRUCTION S10b



HSS BEAM TO HSS COLUMN CONNECTION

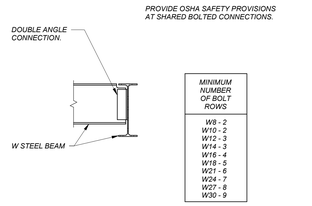
STEEL CONSTRUCTION S9A



MINIMUM NUMBER OF BOLT ROWS
W8 - 2
W10 - 2
W12 - 3
W14 - 3
W16 - 4
W18 - 5
W21 - 6
W24 - 7
W27 - 8
W30 - 9

BEAM TO HSS COLUMN CONNECTION

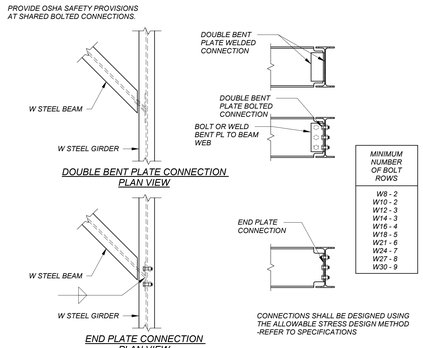
STEEL CONSTRUCTION S10



MINIMUM NUMBER OF BOLT ROWS
W8 - 2
W10 - 2
W12 - 3
W14 - 3
W16 - 4
W18 - 5
W21 - 6
W24 - 7
W27 - 8
W30 - 9

BEAM TO BEAM CONNECTION

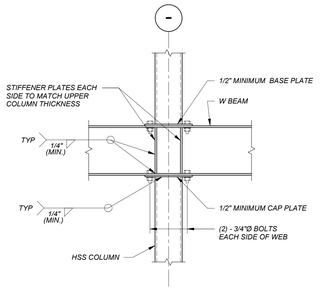
STEEL CONSTRUCTION S12



MINIMUM NUMBER OF BOLT ROWS
W8 - 2
W10 - 2
W12 - 3
W14 - 3
W16 - 4
W18 - 5
W21 - 6
W24 - 7
W27 - 8
W30 - 9

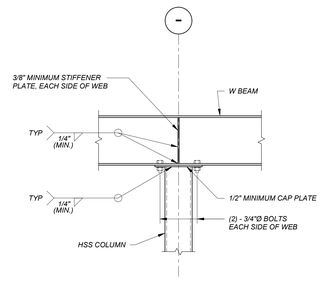
SKEWED BEAM TO BEAM CONNECTION

STEEL CONSTRUCTION SX



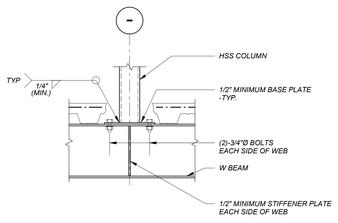
BEAM WITH COLUMN ABOVE & BELOW

STEEL CONSTRUCTION S13a



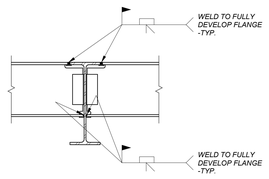
BEAM BEARING ON COLUMN CONNECTION

STEEL CONSTRUCTION S14a



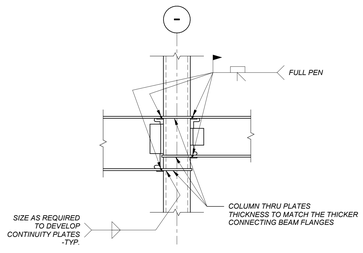
COLUMN BEARING ON BEAM CONNECTION

STEEL CONSTRUCTION S15



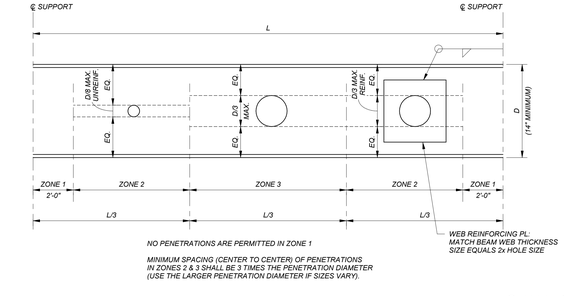
BEAM TO BEAM MOMENT CONNECTION

STEEL CONSTRUCTION S16a



BEAM TO COLUMN MOMENT CONNECTION

STEEL CONSTRUCTION S17a

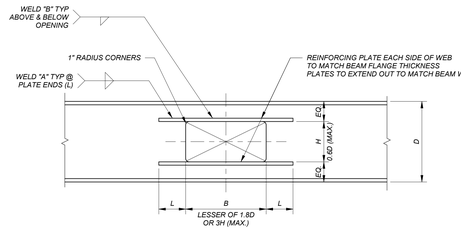


NOTES:

1. *THE NUMBER, SIZES, AND LOCATIONS OF OPENINGS REQUIRED THROUGH STEEL BEAMS AND GIRDERS SHALL BE DETERMINED BY THE GENERAL CONTRACTOR AND SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR ENGINEER'S REVIEW. REFER TO ALL THE DRAWINGS IN THE SET. FIELD CUTTING OPENINGS IS **NOT** PERMITTED . FIELD DRILLING OPENINGS OR PLASMA CUTTING MAY BE PERMITTED WITH THE SPECIFIC APPROVAL OF THE STRUCTURAL ENGINEER.*
2. *OTHER SPECIAL OPENING CASES MAY BE SHOWN ON THE STRUCTURAL DRAWINGS.*
3. *ALL OPENINGS ARE TO BE SHOWN ON THE SHOP DRAWINGS AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION SINCE IN SOME CASES MODIFICATIONS MAY BE REQUIRED.*
4. *DO NOT PENETRATE BEAMS WITHIN THE LATERAL BRACING SYSTEM.*

SMALL BEAM PENETRATION

STEEL CONSTRUCTION S19



NOTES:

1. *SIZE PLATE EXTENSIONS "L" AND WELD "A" AS REQUIRED TO FULLY DEVELOP PLATES.*
2. *REFER TO PLANS FOR SIZES AND LOCATIONS OF BEAM PENETRATIONS.*
3. *DO NOT PENETRATE BEAMS WITHIN THE LATERAL BRACING SYSTEM.*
4. *STEEL PLATES SHALL CONFORM TO ASTM A992 OR A572 Fy = 50KSI.*

LARGE BEAM PENETRATION

STEEL CONSTRUCTION S20

NOTES:

1. *THE NUMBER, SIZES, AND LOCATIONS OF OPENINGS REQUIRED THROUGH STEEL BEAMS AND GIRDERS SHALL BE DETERMINED BY THE GENERAL CONTRACTOR AND SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR ENGINEER'S REVIEW. REFER TO ALL THE DRAWINGS IN THE SET. FIELD CUTTING OPENINGS IS **NOT** PERMITTED . FIELD DRILLING OPENINGS OR PLASMA CUTTING MAY BE PERMITTED WITH THE SPECIFIC APPROVAL OF THE STRUCTURAL ENGINEER.*
2. *OTHER SPECIAL OPENING CASES MAY BE SHOWN ON THE STRUCTURAL DRAWINGS.*
3. *ALL OPENINGS ARE TO BE SHOWN ON THE SHOP DRAWINGS AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION SINCE IN SOME CASES MODIFICATIONS MAY BE REQUIRED.*
4. *DO NOT PENETRATE BEAMS WITHIN THE LATERAL BRACING SYSTEM.*

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(978) 256-9900

KEY PLAN

NORTH ARROW *LICENSE STAMP*

Date 15 MAY 2020

Drawn By CMPD

Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Typical Details IV

2.1.05

2018119

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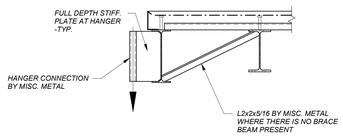
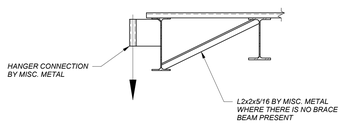


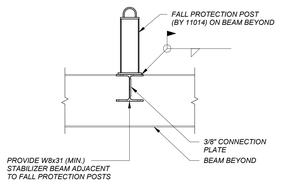
BEAM AT STAIR STRINGER

STEEL CONSTRUCTION S21



BEAM AT STAIR STRINGER

STEEL CONSTRUCTION S21

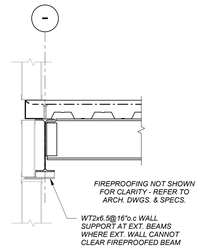


NOTES:

1. COORDINATE LOCATION OF BEAMS WITH LAYOUT OF TIE-BACK ANCHORS SHOWN ON ARCH. DWGS.
2. FINISHED FIELD WELDS TO BE PAINTED WITH ZINC-RICH PAINT.
3. DETAIL TO ACCOUNT FOR SLOPING ROOF MEMBERS WHERE APPLICABLE.

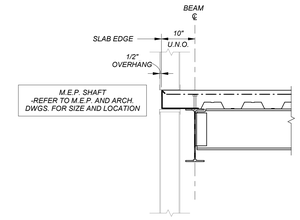
FALL PROTECTION ROOF ANCHOR

STEEL CONSTRUCTION SD22



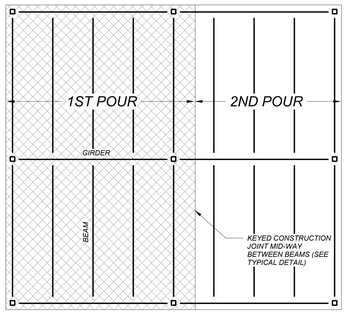
WALL TRACK SUPPORT CLIPS AT FIREPROOFED W-BEAM

STEEL CONSTRUCTION S23

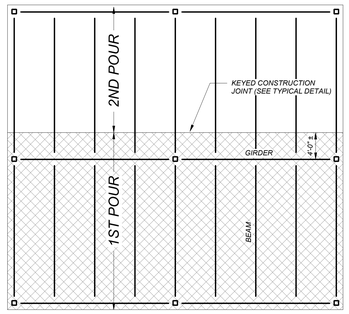


MECHANICAL SHAFT FRAMING

STEEL CONSTRUCTION S25



PARALLEL TO BEAMS

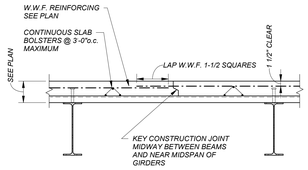


PARALLEL TO GIRDERS

CONSTRUCTION JOINT LAYOUT

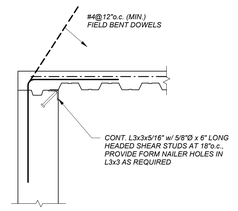
CONCRETE ON METAL DECK

SD2



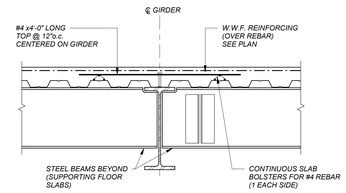
CONCRETE ON COMPOSITE DECK

STEEL CONSTRUCTION SD4



DECK EMBEDMENT AT CONCRETE WALLS

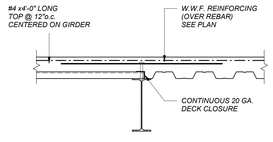
STEEL CONSTRUCTION SD5



(ALSO PROVIDE REBAR AT BRACE BEAM/GIRDER LOCATIONS)

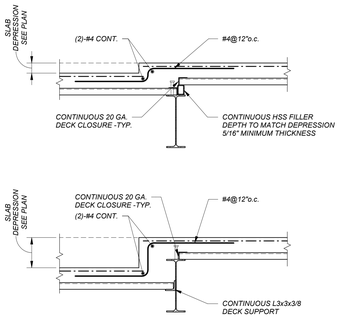
ADDED REBAR OVER GIRDERS

STEEL CONSTRUCTION SD6



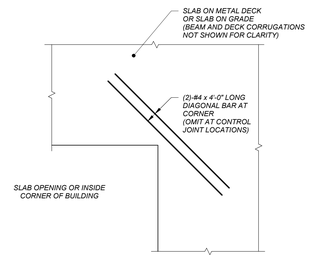
DECK CHANGE IN DIRECTION

STEEL CONSTRUCTION SD8



DECK CHANGE IN ELEVATION

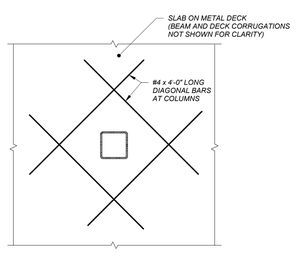
STEEL CONSTRUCTION SD11



PLAN VIEW

ADDED REBAR AT INSIDE CORNERS

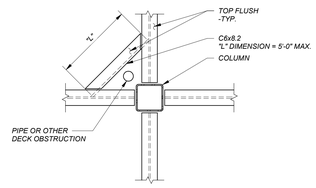
STEEL CONSTRUCTION SD12



PLAN VIEW

ADDED REBAR AT INTERIOR COLUMNS

STEEL CONSTRUCTION SD14



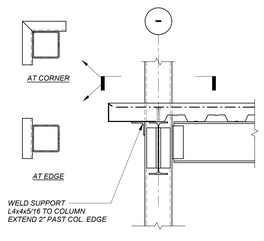
PLAN VIEW

NOTE:

THIS DETAIL IS TO BE USED AT CONDITIONS WHERE DECK IS OBSTRUCTED BY OPENINGS, MOMENT CONNECTIONS, OR OTHER SIMILAR CONDITIONS.

DECK SUPPORT AT COLUMNS

STEEL CONSTRUCTION SD21

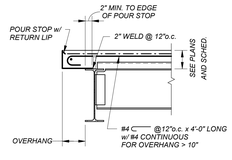


EXTERIOR COLUMN CONDITION SHOWN, PROVIDE SIMILAR DETAIL AT INTERIOR COLUMNS WHERE APPLICABLE

DECK SUPPORT AT COLUMNS

STEEL CONSTRUCTION SD18

POUR STOP SCHEDULE 6-1/2" SLAB	
SLAB OVERHANG BEYOND EDGE OF BEAM FLANGE	POUR STOP GAUGE
<1"	18 GA.
1"+ TO 2"	16 GA.
2"+ TO 4"	14 GA.
4"+ TO 8"	12 GA.
8"+ TO 10"	10 GA.
>10"	16 GA. + TEMP. SUPPORT



NOTES:

1. POUR STOP SCHEDULE INDICATES MINIMUM POUR STOP REQUIREMENTS. REFER TO SECTIONS AND DETAILS FOR FURTHER REQUIREMENTS.
2. IN THE CASE OF CONFLICT BETWEEN THE SCHEDULE AND DETAIL, THE DETAIL SHALL GOVERN.
3. IN CASES WHERE DECK RIBS ARE PERPENDICULAR TO AND CANTILEVER FROM SUPPORTING BEAMS, PROVIDE CONTINUOUS 18 GA. CELL CLOSURE PLUS 18. GA. POUR STOP ANGLE.

POUR STOP SCHEDULE AND DETAILS

STEEL CONSTRUCTION SD19

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KEY PLAN

NORTH ARROW — LICENSE STAMP

Date 15 MAY 2020

Drawn By CMPD

Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Typical Details V

2.1.06

2018119

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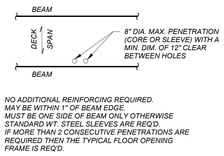
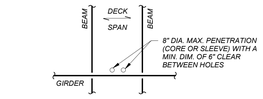


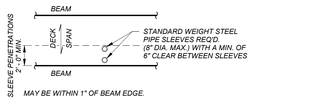
NO ADDITIONAL REINFORCING REQUIRED.
MAY BE WITHIN 1" OF BEAM EDGE.
MUST BE ONE SIDE OF BEAM ONLY OTHERWISE
STANDARD WT. STEEL SLEEVES ARE REQ'D.
IF MORE THAN 2 CONSECUTIVE PENETRATIONS ARE
REQUIRED THEN THE TYPICAL FLOOR OPENING
FRAME IS REQ'D.

CONDITION 1 - HOLES PARALLEL TO BEAM



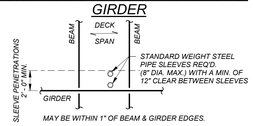
NO ADDITIONAL REINFORCING REQUIRED.
MAY BE WITHIN 1" OF BEAM & GIRDER EDGES.
MUST BE ONE SIDE OF BEAM ONLY OTHERWISE
STANDARD WT. STEEL SLEEVES ARE REQ'D.
IF MORE THAN 2 CONSECUTIVE PENETRATIONS ARE
REQUIRED THEN THE TYPICAL FLOOR OPENING
FRAME IS REQ'D.

CONDITION 3 - HOLES PARALLEL TO GIRDER



MAY BE WITHIN 1" OF BEAM EDGE.

CONDITION 2- HOLES PERPENDICULAR TO BEAM



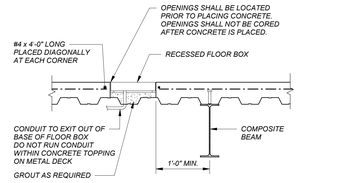
MAY BE WITHIN 1" OF BEAM & GIRDER EDGES.

IF MORE THAN 2 CONSECUTIVE PENETRATIONS ARE
REQUIRED THEN THE TYPICAL FLOOR OPENING
FRAME IS REQ'D.

CONDITION 4 - HOLES PERPENDICULAR TO GIRDER

DECK PENETRATION GUIDELINES

STEEL CONSTRUCTION SD22



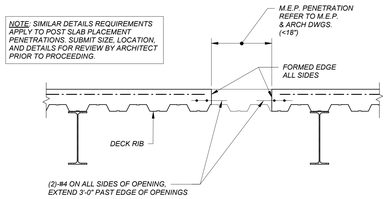
NOTE:

REFER TO ARCH. DRAWINGS FOR FLOOR BOX LOCATIONS.

FLOOR BOX EMBEDMENT

STEEL CONSTRUCTION SD23

NOTE: SIMILAR DETAILS REQUIREMENTS APPLY TO POST SLAB PLACEMENT PENETRATIONS. SUBMIT SIZE, LOCATION, AND DETAILS FOR REVIEW BY ARCHITECT PRIOR TO PROCEEDING.



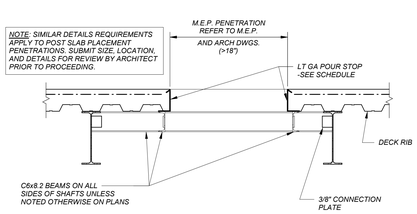
NOTE:

1. REFER TO ARCH. AND M.E.P. DRAWINGS FOR PENETRATION LOCATIONS AND SIZES - COORDINATE WITH M.E.P. SUBCONTRACTOR. PENETRATIONS ARE NOT SHOWN ON STRUCTURAL PLANS.
2. DECK RUNS CONTINUOUSLY THROUGH PENETRATION DURING CONCRETE PLACEMENT, CUT DECK AFTER SLAB HAS REACHED FULL STRENGTH.

SMALL FLOOR PENETRATIONS (<18" WIDE PERPENDICULAR TO DECK RIBS)

STEEL CONSTRUCTION SD24

NOTE: SIMILAR DETAILS REQUIREMENTS APPLY TO POST SLAB PLACEMENT PENETRATIONS. SUBMIT SIZE, LOCATION, AND DETAILS FOR REVIEW BY ARCHITECT PRIOR TO PROCEEDING.

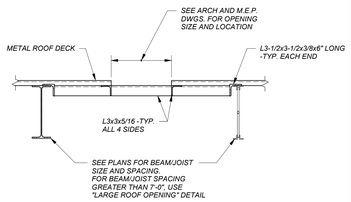


NOTES:

1. REFER TO ARCH. AND M.E.P. DRAWINGS FOR PENETRATION LOCATIONS AND SIZES - COORDINATE WITH M.E.P. SUBCONTRACTOR. PENETRATIONS ARE NOT ALL SHOWN ON STRUCTURAL PLANS.
2. FRAMES ARE REQUIRED AT GROUPS OF PENETRATIONS WHERE THE AGGREGATE WIDTHS/DIAMETERS EXCEED 18" PERPENDICULAR TO THE RIBS, UNLESS ADEQUATE SPACING OF PENETRATIONS IS PROVIDED PER DECK PENETRATION GUIDELINES.
3. PROVIDE (2)-#4 x 4'-0" LONG DIAGONAL BARS AT RE-ENTRANT CORNERS CREATED BY FLOOR OPENINGS.

LARGE FLOOR PENETRATIONS (>18" WIDE PERPENDICULAR TO DECK RIBS)

STEEL CONSTRUCTION SD25

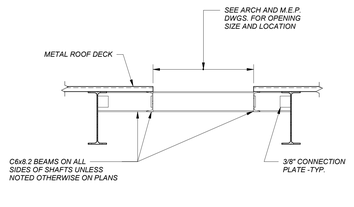


NOTES:

1. DETAIL ABOVE APPLIES TO OPENINGS IN ROOF STRUCTURE TO BE PROVIDED FOR ROOF DRAINS, FANS, M.E.P. SHAFTS, ETC.
2. SEE ARCHITECTURAL AND M.E.P. DRAWINGS FOR SIZE AND LOCATION OF OPENINGS. COORDINATE WITH EQUIPMENT REQUIREMENTS.
3. FRAMING SHOWN ON THE PLANS GOVERN OVER THAT WHICH IS INDICATED ON THE DETAIL ABOVE.
4. WHERE ADDED LOAD TO JOISTS OCCURS BETWEEN TOP CHORD PANEL POINTS, ADD L1-1/2x1-1/2x1/4 TO BOTTOM CHORD PANEL POINT.

SMALL ROOF OPENINGS (LESS THAN 18")

STEEL CONSTRUCTION SD27

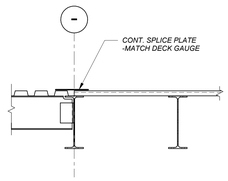


NOTES:

1. DETAIL ABOVE APPLIES TO OPENINGS IN ROOF STRUCTURE TO BE PROVIDED FOR ROOF DRAINS, FANS, M.E.P. SHAFTS, ETC.
2. SEE ARCHITECTURAL AND M.E.P. DRAWINGS FOR SIZE AND LOCATION OF OPENINGS. COORDINATE WITH EQUIPMENT REQUIREMENTS.
3. FRAMING SHOWN ON THE PLANS GOVERN OVER THAT WHICH IS INDICATED ON THE DETAIL ABOVE.
4. WHERE ADDED LOAD TO JOISTS OCCURS BETWEEN TOP CHORD PANEL POINTS, ADD L1-1/2x1-1/2x1/4 TO BOTTOM CHORD PANEL POINT.

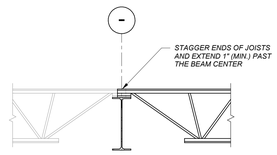
LARGE ROOF OPENINGS (LARGER THAN 18")

STEEL CONSTRUCTION SD28



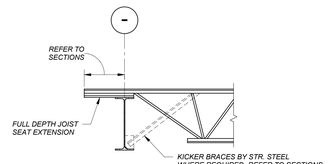
ROOF DECK SPLICE

STEEL CONSTRUCTION SD31



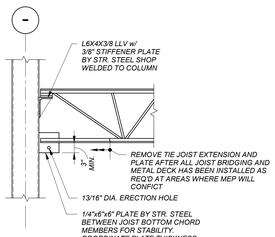
JOIST ON INTERIOR BEAM DETAIL

STEEL CONSTRUCTION SJ1



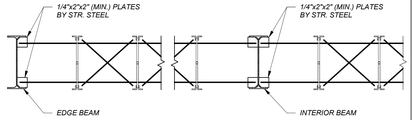
JOIST ON EXTERIOR BEAM DETAIL

STEEL CONSTRUCTION SJ2



TIE JOIST TO COLUMN DETAIL

STEEL CONSTRUCTION SJ4

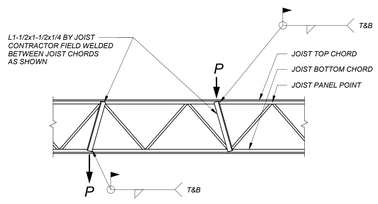


NOTE:

PROVIDE CONTINOUS HORIZONTAL TOP AND BOTTOM BRIDGING AND CROSS BRACING AT SECOND JOIST BAYS TO BEAMS FOR K SERIES JOISTS.

JOIST BRIDGING DETAIL

STEEL CONSTRUCTION SJ5



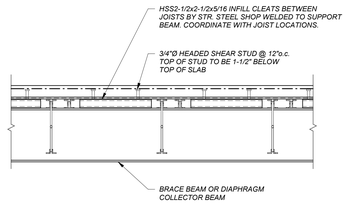
JOIST ELEVATION

NOTE:

USE ANGLE BRACES WHERE CONCENTRATED LOADS DO NOT OCCUR AT JOIST TOP CHORD PANEL POINTS.

JOIST REINFORCING AT LOAD DETAIL

STEEL CONSTRUCTION SJ6



DIAPHRAGM CLEATS BETWEEN JOISTS DETAIL

STEEL CONSTRUCTION SJ7

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Boston, MA 02129
(617) 482-4703

Foley Buhl Roberts & Assoc., Inc.
Structural Engineers
2150 Washington Street
Newton, MA 02462
(617) 527-9600

Crabtree McGrath Assoc., Inc.
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Georgetown, MA 01833
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Woburn, MA 01801
(781) 935-7228

Thompson Engineering Company, Inc.
Electrical Engineers
89 Newbury Street, Suite 103
Danvers, MA 01923
(617) 866-9066

EdVance Technology Design, Inc.
Technology Consultants
300 Brickstone Square, Suite 201
Andover, MA 01880
(978) 256-9900

KEY PLAN

NORTH ARROW — LICENSE STAMP

Date 15 MAY 2020

Drawn By CMPD

Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Typical Details VI

2.1.07

2018119

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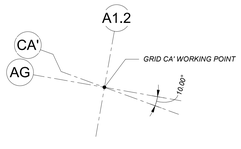
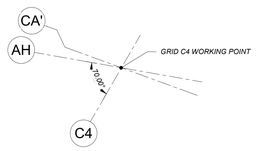
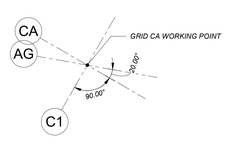


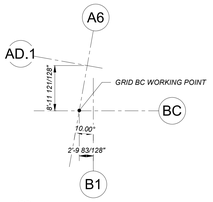
1 WORKING POINT
1/4" = 1'-0"



2 WORKING POINT
1/4" = 1'-0"



3 WORKING POINT
1/4" = 1'-0"



4 WORKING POINT
3/32" = 1'-0"

GRID LAYOUT PLAN
3/32" = 1'-0"

NORTH ARROW

STAMP

Date 15 MAY 2020

Drawn By CMPD

Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Grid Layout Plan

2.4.00

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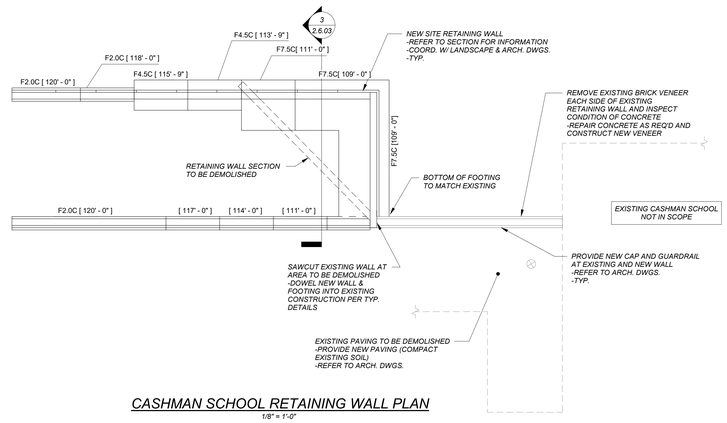
NOTES:

1. FOR GENERAL NOTES AND TYPICAL DETAILS, REFER TO DRAWINGS 2.1.01 THROUGH 2.1.07.
2. FOR TOP OF CONCRETE EL. SEE PLAN.
3. INDICATES A DEPRESSION. REFER TO ARCHITECTURAL DRAWINGS FOR DEPTH AND EXTENTS. COORDINATE WITH FLOORING MANUFACTURER.
4. COLUMN SIZES ARE SHOWN ON PLANS AT THEIR LOWEST LEVELS OR AT SPLICES. REFER TO FOUNDATION PLANS AND FRAMING PLANS.
5. BR-X INDICATES A BRACED FRAME IN THE LATERAL LOAD RESISTING SYSTEM. FOR ELEVATIONS AND DETAILS REFER TO DRAWINGS 2.5.01 THROUGH 2.5.05.
6. * INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.). REFER TO THE SPECIFICATION FOR SURFACE PREPARATION AND FINISH REQUIREMENTS. COORDINATE LOCATIONS OF E.V.S.S. WITH ARCHITECTURAL DRAWINGS.
7. ‡ INDICATES STRUCTURAL MEMBER WITH INTUMESCENT PAINT. REFER TO THE SPECIFICATION FOR SURFACE PREPARATION AND FINISH REQUIREMENTS. COORDINATE LOCATIONS FOR PAINTED MEMBERS WITH ARCHITECTURAL DRAWINGS.
8. § INDICATES EXPOSED AND PRIMED STRUCTURAL STEEL (E.P.). REFER TO THE SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS. COORDIATE LOCATIONS OF E.P. STEEL WITH ARCHITECTURAL DRAWINGS.
9. "G.B." INDICATES A REINFORCED CONCRETE GRADE BEAM. SEE SECTIONS FOR SIZE AND REINFORCING. EXTEND AND HOOK LONGITUDINAL REINFORCING INTO FOOTING/PIER AT EACH END AND PROVIDE CLASS B SPLICES WHERE REQUIRED.
10. ESTIMATED ELEVATION OF BOTTOM OF FOOTING IS INDICATED THUS [X'-X"] ON PLAN. BOTTOM OF EACH EXTERIOR FOOTING SHALL BE A MINIMUM OF 4'-0" BELOW ADJACENT FINISH GRADE.
11. SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF STEEL FIREPROOFING.
12. ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED.



CASHMAN SCHOOL RETAINING WALL PLAN

1/8" = 1'-0"

CONT. FOOTING SCHEDULE			
	DIMENSIONS		
TYPE	WIDTH	DEPTH	REINFORCING
F2.0C	2' - 0"	12"	2-#5 CONT.
F2.2C	2' - 3"	12"	2-#5 CONT.
F4.5C	4' - 6"	15"	REFER TO SECTION
F7.5C	7' - 6"	24"	REFER TO SECTION
F11.0C	11' - 0"	30"	REFER TO SECTION

SPREAD FOOTING SCHEDULE				
	DIMENSIONS			
TYPE	WIDTH	LENGTH	DEPTH	REINFORCING
F4.0	4' - 0"	4' - 0"	1' - 6"	4-#6 BOT. EACH WAY
F5.0	5' - 0"	5' - 0"	1' - 6"	5-#6 BOT. EACH WAY
F5.0BR	5' - 0"	5' - 0"	2' - 6"	5-#6 TOP & BOT. EACH WAY
F6.0	6' - 0"	6' - 0"	1' - 10"	7-#6 BOT. EACH WAY
F6.0BR	6' - 0"	6' - 0"	2' - 6"	7-#6 TOP & BOT. EACH WAY
F7.0	7' - 0"	7' - 0"	2' - 0"	7-#7 BOT. EACH WAY
F7.0BR	7' - 0"	7' - 0"	2' - 6"	7-#7 TOP & BOT. EACH WAY
F8.0	8' - 0"	8' - 0"	2' - 3"	8-#7 BOT. EACH WAY
F8.0BR	8' - 0"	8' - 0"	2' - 6"	8-#7 TOP & BOT. EACH WAY
F9.0	9' - 0"	9' - 0"	2' - 6"	10-#7 BOT. EACH WAY
F9.0BR	9' - 0"	9' - 0"	2' - 6"	10-#7 TOP & BOT. EACH WAY
F11.0	11' - 0"	11' - 0"	2' - 6"	12-#11 BOT. EACH WAY
F12.0	12' - 0"	12' - 0"	3' - 4"	12-#9 BOT. EACH WAY

GROUND FLOOR/FOUNDATION PART PLAN

1/8" = 1'-0"

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NORTH ARROW — STAMP

Date 15 MAY 2020
Drawn By CMPD
Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Ground Floor/Foundation Plan

2.4.01

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NOTES:

1. *FOR GENERAL NOTES AND TYPICAL DETAILS, REFER TO DRAWINGS 2.1.01 THROUGH 2.1.07.*
2. *F6.5 INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 3 1/2" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6x6-W2.9xW2.9 W.W.F. SUPPORTED WITH SLAB BOLSTERS, AND 3" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 6 1/2" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).*
3. *(XX) INDICATES THE NUMBER OF EQUALLY SPACED 3/4" DIA. x 5" LONG HEADED SHEAR CONNECTOR STUDS WELDED TO THE CENTER OF THE TOP FLANGE OF THE BEAM OR GIRDER. PROVIDE A MINIMUM OF ONE STUD PER FOOT LENGTH AT ALL BEAMS SUPPORTING COMPOSITE FLOOR DECK.*
4. *FIRST FLOOR TOP OF STEEL ELEVATION = 133'-11 1/2". UNLESS NOTED OTHERWISE ON PLAN OR IN SECTIONS.*
5. *INDICATES A DEPRESSION. REFER TO ARCHITECTURAL DRAWINGS FOR DEPTH AND EXTENTS. COORDINATE WITH FLOORING MANUFACTURER.*
6. *COLUMN SIZES ARE SHOWN ON PLANS AT THEIR LOWEST LEVELS OR AT SPLICES. REFER TO FOUNDATION PLANS AND FRAMING PLANS.*
7. *INDICATES A FULL CAPACITY MOMENT CONNECTION.*
8. *BR-X INDICATES A BRACED FRAME IN THE LATERAL LOAD RESISTING SYSTEM. FOR ELEVATIONS AND DETAILS REFER TO DRAWING 2.5.01 THROUGH 2.5.05.*
9. *"D.B." INDICATES 2-#5 DRAG BARS IN CONCRETE SLAB. PLACE ONE BAR ON EACH SIDE OF THE BRACED FRAME BEAM AND BOTH BARS ON SAME SIDE WHERE THE FRAME IS NEAR THE EDGE OF SLAB.*
10. ** INDICATES EXPOSED TO VIEW STRUCTURAL STEEL. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS. COORDINATE LOCATIONS OF E.V.S.S. WITH ARCHITECTURAL DRAWINGS.*
11. *‡ INDICATES STRUCTURAL MEMBERS WITH INTUMESCENT PAINT. REFER TO THE SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS. COORDINATE LOCATIONS OF PAINTED MEMBERS WITH ARCHITECTURAL DRAWINGS.*
12. *§ INDICATES EXPOSED AND PRIMED STRUCTURAL STEEL (E.P.). REFER TO THE SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS. COORDINATE LOCATIONS OF E.P. STEEL WITH ARCHITECTURAL DRAWINGS.*
13. *R3.0 INDICATES SPAN DIRECTION OF ROOF CONSTRUCTION CONSISTING OF 3" DEEP x 18 GAUGE GALVANIZED WIDE RIB METAL ROOF DECK.*
14. *INDICATES A ROOF AREA.*
15. *COORDINATE AND VERIFY THE SIZE, QUANTITY AND LOCATION OF ALL VENTS, PIPES, DUCTS SHAFTS, AND OTHER FLOOR PENETRATIONS WITH ARCHITECTURAL AND M.E.P. DRAWINGS AND PROVIDE STEEL FRAMES AS REQUIRED PER THE TYPICAL DETAILS. ALL REQUIRED PENETRATIONS MIGHT NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.*
16. *ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED.*
17. *SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF STEEL FIREPROOFING.*

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FIRST FLOOR FRAMING PLAN
1/8" = 1'-0"

Date 15 MAY 2020
Drawn By CMPD
Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

First Floor Framing Plan

2.4.02

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NOTES:

1. FOR GENERAL NOTES AND TYPICAL DETAILS, REFER TO DRAWINGS 2.1.01 THROUGH 2.1.10.
2. F6.5 INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 3 1/2" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6x6-W2.9xW2.9 W.W.F. SUPPORTED WITH SLAB BOLSTERS, AND 3" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 6 1/2" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
3. (XX) INDICATES THE NUMBER OF EQUALLY SPACED 3/4" DIA. x 5" LONG HEADED SHEAR CONNECTOR STUDS WELDED TO THE CENTER OF THE TOP FLANGE OF THE BEAM OR GIRDER. PROVIDE A MINIMUM OF ONE STUD PER FOOT LENGTH AT ALL BEAMS SUPPORTING COMPOSITE FLOOR DECK.
4. SECOND FLOOR TOP OF STEEL ELEVATION = 149'-3 1/2". UNLESS NOTED OTHERWISE ON PLAN OR IN SECTIONS.
5. INDICATES A DEPRESSION. REFER TO ARCHITECTURAL DRAWINGS FOR DEPTH AND EXTENTS. COORDINATE WITH FLOORING MANUFACTURER.
6. COLUMN SIZES ARE SHOWN ON PLANS AT THEIR LOWEST LEVELS OR AT SPLICES. REFER TO FOUNDATION PLANS AND FRAMING PLANS.
7. INDICATES A FULL CAPACITY MOMENT CONNECTION.
8. BR-X INDICATES A BRACED FRAME IN THE LATERAL LOAD RESISTING SYSTEM. FOR ELEVATIONS AND DETAILS REFER TO DRAWING 2.5.01 THROUGH 2.5.05.
9. "D.B." INDICATES 2-#5 DRAG BARS IN CONCRETE SLAB. PLACE ONE BAR ON EACH SIDE OF THE BRACED FRAME BEAM AND BOTH BARS ON SAME SIDE WHERE THE FRAME IS NEAR THE EDGE OF SLAB.
10. * INDICATES EXPOSED TO VIEW STRUCTURAL STEEL. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS. COORDINATE LOCATIONS OF E.V.S.S. WITH ARCHITECTURAL DRAWINGS.
11.
12. ‡ INDICATES STRUCTURAL MEMBERS WITH INTUMESCENT PAINT. REFER TO THE SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS. COORDINATE LOCATIONS OF PAINTED MEMBERS WITH ARCHITECTURAL DRAWINGS.
13. R3.0 INDICATES SPAN DIRECTION OF ROOF CONSTRUCTION CONSISTING OF 3" DEEP x 18 GAUGE GALVANIZED WIDE RIB METAL ROOF DECK.
14. INDICATES A ROOF AREA.
15. COORDINATE AND VERIFY THE SIZE, QUANTITY AND LOCATION OF ALL VENTS, PIPES, DUCTS SHAFTS, AND OTHER FLOOR PENETRATIONS WITH ARCHITECTURAL AND M.E.P. DRAWINGS AND PROVIDE STEEL FRAMES AS REQUIRED PER THE TYPICAL DETAILS. ALL REQUIRED PENETRATIONS MIGHT NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
16. ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED.
17. SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF STEEL FIREPROOFING.

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GYMNASIUM
STAGE
SHAFT
ELEV.
ENTRY CANOPY -ALL MEMBERS TO BE E.V.S.S. & COLORGALV. -SEE ARCH. DWGS. -TYP.
LARGE BEAM PENETRATION -REFER TO TYP. DETAILS -COORD. SIZE & LOCATION W/ MEP DWGS -TYP.
CONT. GALV. L8X4X1/2 BRICK SUPPORT AT LOW ROOF -TYP.
CONT. GALV. L6X4X3/8 REV ANGLE -TYP.
PROVIDE 1/4" MIN. GAP IN REV. ANGLE AT COLUMN LINES AND AT MID-BAY (15'-6" MAX.) AND PROVIDE SUPPORT EACH SIDE OF GAP -TYP.
CUT REV. ANGLE TOE FOR RECESSED BRICK AT CORNER -COORD./REFER TO ARCH. DWGS. -TYP.
3/4" DEPRESSION
OPEN TO BELOW
STAIR A
STAIR B
STAIR C
HSS5X5X1/2 OUTRIGGER
HSS5X5X3/16 SILL +PL
COL. DOWN

SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

NORTH ARROW | STAMP

Date 15 MAY 2020
Drawn By CMPD
Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Second Floor Framing Plan

2.4.03

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NOTES:

1. FOR GENERAL NOTES AND TYPICAL DETAILS, REFER TO DRAWINGS 2.1.01 THROUGH 2.1.07.
2. R3.0 INDICATES SPAN DIRECTION OF ROOF CONSTRUCTION CONSISTING OF 3" DEEP x 18 GAUGE GALVANIZED DEEP RIB METAL ROOF DECK.
3. R3.0C INDICATES SPAN DIRECTION OF ROOF CONSTRUCTION CONSISTING OF 3" DEEP x 20/20 GAUGE GALVANIZED, WITH PRIMED UNDERSIDE, DEEP RIB CELLULAR METAL ROOF DECK.
4. R3.0A INDICATES SPAN DIRECTION OF ROOF CONSTRUCTION CONSISTING OF 3" DEEP x 20/20 GAUGE GALVANIZED, WITH PRIMED UNDERSIDE, DEEP RIB CELLULAR ACOUSTIC METAL ROOF DECK.
5. F6.5 AND [shaded] INDICATES SPAN DIRECTION OF ROOF CONSTRUCTION CONSISTING OF 3 1/2" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6x6xW2.9 W.W.F. SUPPORTED WITH SLAB BOLSTERS, AND A 3" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 6 1/2" TOTAL SLAB THICKNESS. POUR SLABS LEVEL ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
6. ROOF TOP OF STEEL ELEVATION = 164'-7 1/2" UNLESS NOTED OTHERWISE ON PLAN OR IN SECTIONS.
7. BEAMS AND GIRDERS THAT SUPPORT LH-SERIES JOISTS SHALL BE 5" LOWER IN ELEVATION TO ACCOUNT FOR STEEL JOIST SEAT DIMENSION.
8. ▶— INDICATES A FULL CAPACITY MOMENT CONNECTION.
9. BR-X INDICATES A BRACED FRAME IN THE LATERAL LOAD RESISTING SYSTEM. FOR ELEVATIONS AND DETAILS REFER TO DRAWINGS 2.5.03 THROUGH 2.5.04.
10. * INDICATES EXPOSED TO VIEW STRUCTURAL STEEL. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS. COORDINATE LOCATIONS OF E.V.S.S. WITH ARCHITECTURAL DRAWINGS.
11. ‡ INDICATES STRUCTURAL MEMBERS WITH INTUMESCENT PAINT. REFER TO THE SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS. COORDINATE LOCATIONS OF PAINTED MEMBERS WITH ARCHITECTURAL DRAWINGS.
12. ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED.
13. SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF STEEL FIREPROOFING.
14. ALL OPEN WEB STEEL JOISTS SHALL BE BRIDGED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STEEL JOIST INSTITUTE (SJI). ROOF JOISTS SHALL HAVE A LINE OF "UPLIFT" BRIDGING AT THE FIRST INTERIOR BOTTOM CHORD PANEL POINT AT EACH END.
15. COORDINATE AND VERIFY THE SIZE, QUANTITY AND LOCATION OF ALL ROOF DRAINS (NOTED ON PLAN AS "R.D."), VENTS, DUCTS, SKYLIGHTS AND OTHER ROOF PENETRATIONS WITH THE ARCHITECTURAL AND MEP DRAWINGS AND PROVIDE STEEL FRAMES AS REQUIRED PER THE TYPICAL DETAILS. ALL REQUIRED PENETRATIONS MIGHT NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.

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ROOF FRAMING PLAN

1/8" = 1'-0"

NORTH ARROW — STAMP

Date 15 MAY 2020
Drawn By CMPD
Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Roof Framing Plan

2.4.04

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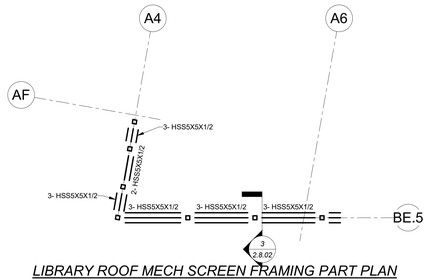
NOTES:

1. FOR GENERAL NOTES AND TYPICAL DETAILS, REFER TO DRAWINGS 2.1.01 THROUGH 2.1.07.
2. R3.0 INDICATES SPAN DIRECTION OF ROOF CONSTRUCTION CONSISTING OF 3" DEEP x 18 GAUGE GALVANIZED DEEP RIB METAL ROOF DECK.
3. HIGH ROOF TOP OF STEEL ELEVATION = 167'-0" UNLESS NOTED OTHERWISE ON PLAN OR IN SECTIONS.
4. INDICATES A FULL CAPACITY MOMENT CONNECTION.
5. BR-X INDICATES A BRACED FRAME IN THE LATERAL LOAD RESISTING SYSTEM. FOR ELEVATIONS AND DETAILS REFER TO DRAWINGS 2.5.03 THROUGH 2.5.04.
6. * INDICATES EXPOSED TO VIEW STRUCTURAL STEEL. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS. COORDINATE LOCATIONS OF E.V.S.S. WITH ARCHITECTURAL DRAWINGS.
7. ‡ INDICATES STRUCTURAL MEMBERS WITH INTUMESCENT PAINT. REFER TO THE SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS. COORDINATE LOCATIONS OF PAINTED MEMBERS WITH ARCHITECTURAL DRAWINGS.
8. ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED.
9. SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF STEEL FIREPROOFING.
10. COORDINATE AND VERIFY THE SIZE, QUANTITY AND LOCATION OF ALL ROOF DRAINS (NOTED ON PLAN AS "R.D."), VENTS, DUCTS, SKYLIGHTS AND OTHER ROOF PENETRATIONS WITH THE ARCHITECTURAL AND MEP DRAWINGS AND PROVIDE STEEL FRAMES AS REQUIRED PER THE TYPICAL DETAILS. ALL REQUIRED PENETRATIONS MIGHT NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.



LIBRARY ROOF MECH SCREEN FRAMING PART PLAN
1/8" = 1'-0"

HIGH ROOF FRAMING PLAN
1/8" = 1'-0"

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NORTH ARROW (Called North) | STAMP

Date 15 MAY 2020

Drawn By CMPD

Scale 0

Revisions

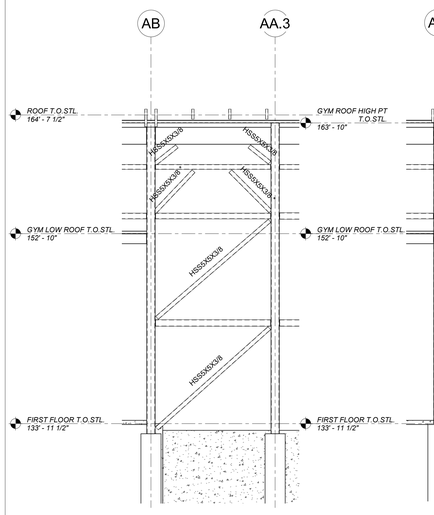
Number	Date	Description

60% COST ESTIMATE SET

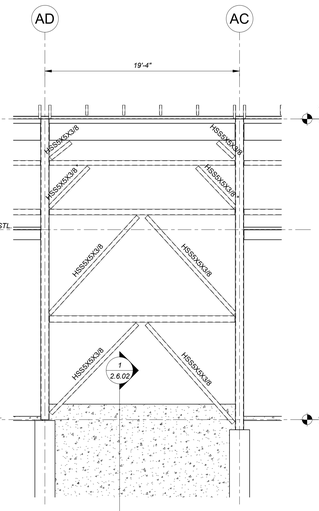
High Roof Framing Plan

2.4.05

© 2020 DiNisco Design [36 x 48] 3/22/20



BR-A1.1-1
3/16" = 1'-0"



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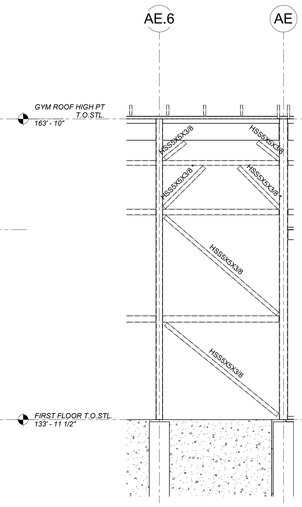

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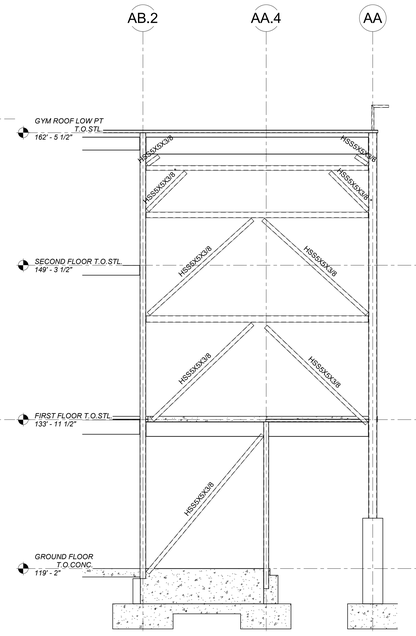

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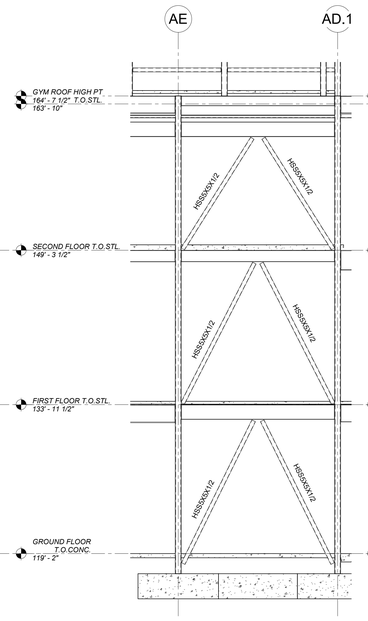

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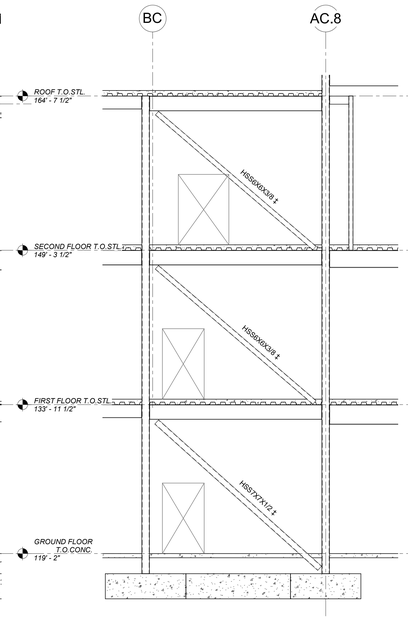

BR-A6-1
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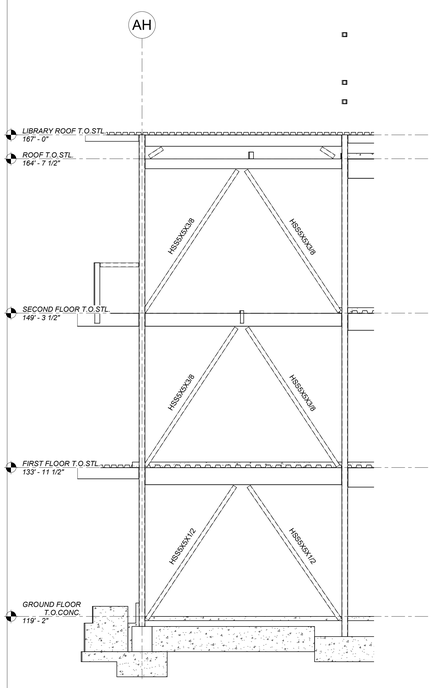

BR-A6-2
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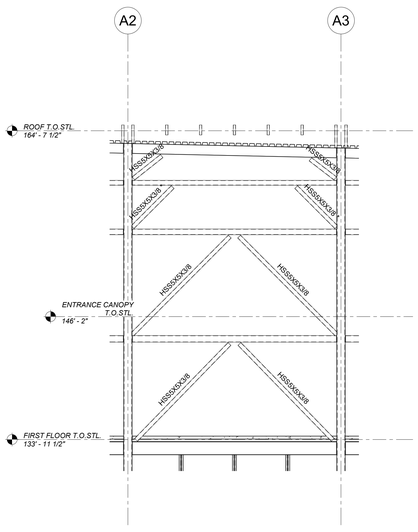
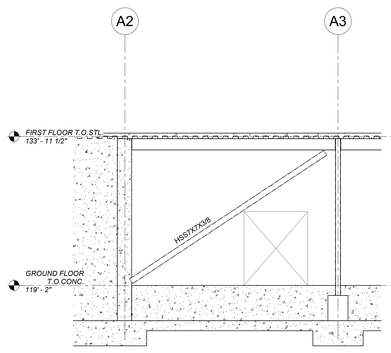


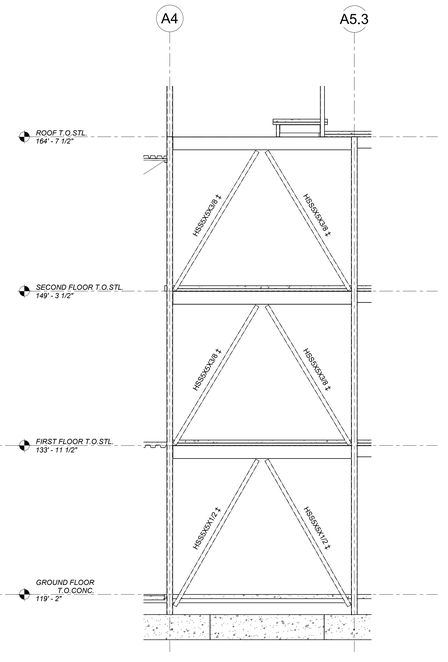
BR-AA
3/16" = 1'-0"

LATERAL LOAD RESISTING SYSTEM NOTES:

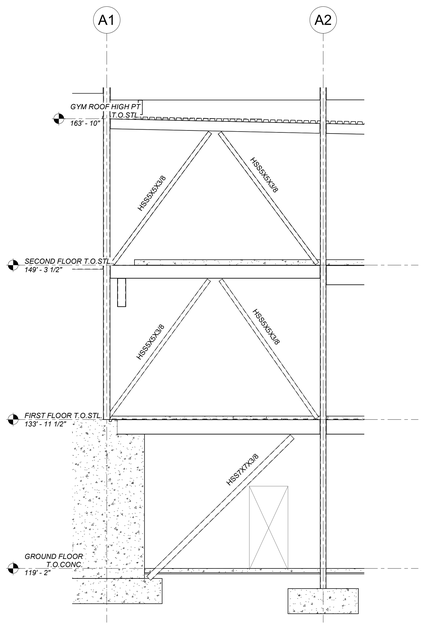
1. *BRACING ELEVATIONS AND DETAILS ARE SCHEMATIC ONLY AND ARE INTENDED TO SHOW BRACING CONFIGURATIONS AND CONNECTIONS DESIGN REQUIREMENTS.*
2. *BRACE FORCE (KIPS) TO BE USED FOR CONNECTION DESIGN IS INDICATED THUS (±0.0 K) ON THE FRAME ELEVATIONS. THE AMPLIFICATION FACTOR REQUIRED BY THE BUILDING CODE FOR CONNECTION DESIGN HAS BEEN INCLUDED IN THIS VALUE. CONNECTIONS ARE TO BE DESIGNED USING THE ALLOWABLE STRESS DESIGN (A.S.D.) METHOD.*
3. *BRACE OFFSET DIMENSIONS ARE MEASURED FROM INTERSECTION OF CENTER OF BEAMS AND BRACES TO GRID LINES.*
4. *COORDINATE SIZE AND LOCATION OF BRACING WITH WALL OPENINGS SHOWN ON ARCHITECTURAL DRAWINGS.*
5. *REFER TO PLANS FOR BEAM SIZES, COLUMN SIZES, AND BRACING LOCATIONS.*
6. *TOP CONNECTION OF EACH BRACING MEMBER SHALL REMAIN LOOSE AND ACCESSIBLE UNTIL THE BUILDING HAS BEEN PLUMBED.*
7. *BOLTED BRACE CONNECTIONS SHALL BE SLIP-CRITICAL (SC) TYPE.*
8. *ALL WELDS IN BRACING CONNECTIONS SHALL HAVE A MINIMUM LENGTH OF THREE INCHES.*
9. ** INDICATES EXPOSED TO VIEW STRUCTURAL STEEL. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS. COORDINATE LOCATIONS OF E.V.S.S. WITH ARCHITECTURAL DRAWINGS. ALL E.V.S.S. TO RECEIVE INTUMESCENT PAINT UNLESS NOTED OTHERWISE.*



BR-AA.4
3/16" = 1'-0"



BR-AD.1
3/16" = 1'-0"



BR-AF
3/16" = 1'-0"

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KEY PLAN

NORTH ARROW *LICENSE STAMP*

Date 15 MAY 2020
Drawn By CMPD
Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Brace Elevations I

2.5.01

2018119

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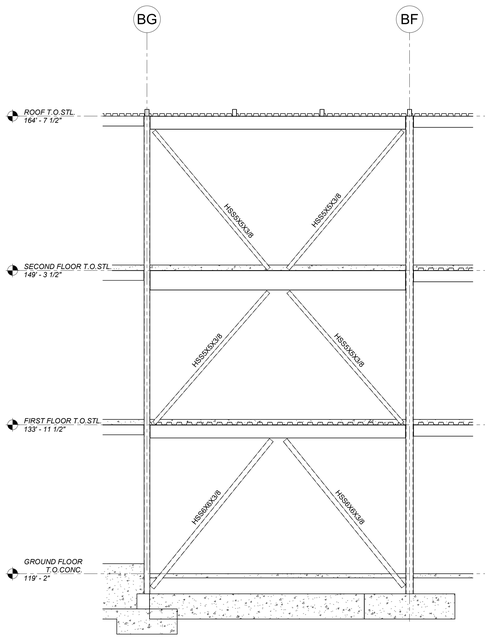
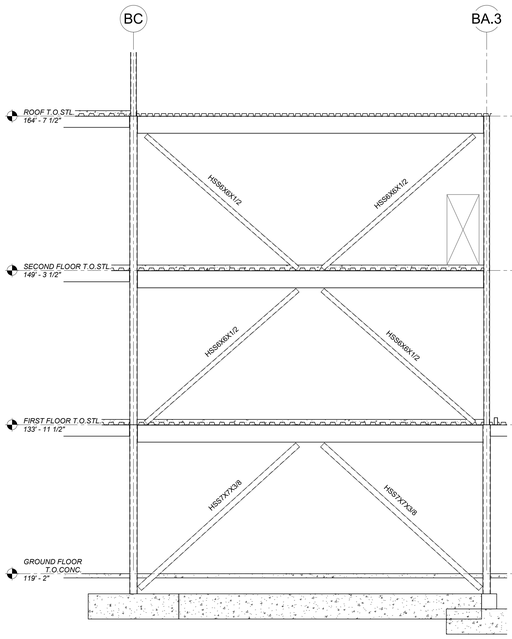
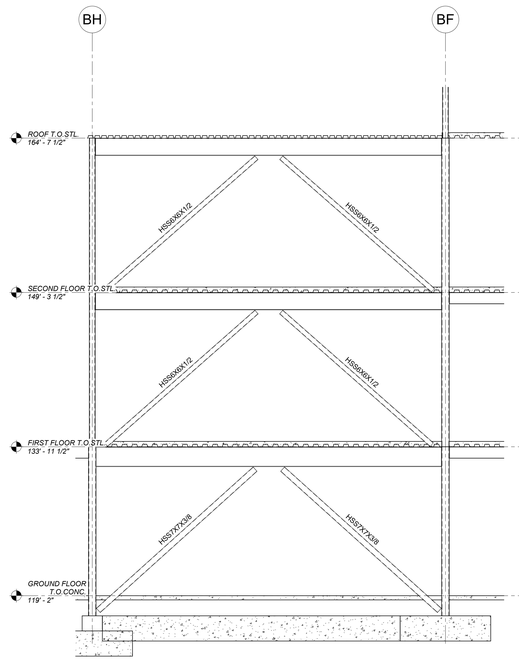


BR-B2
3/16" = 1'-0"



BR-B3
3/16" = 1'-0"



BR-B4
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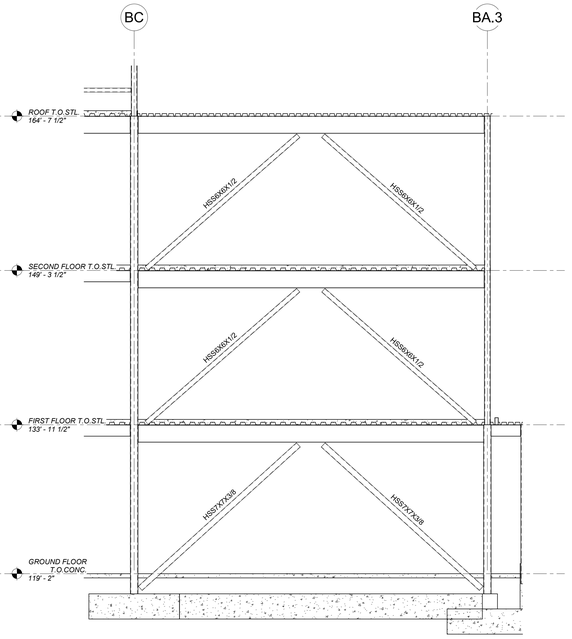
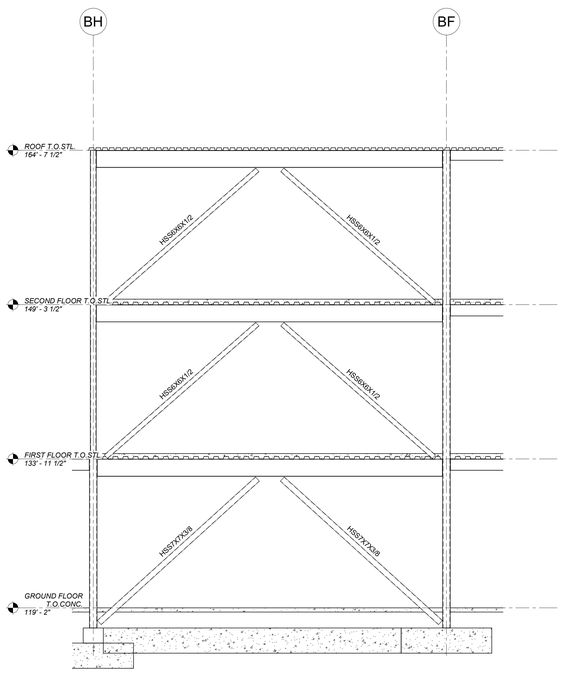
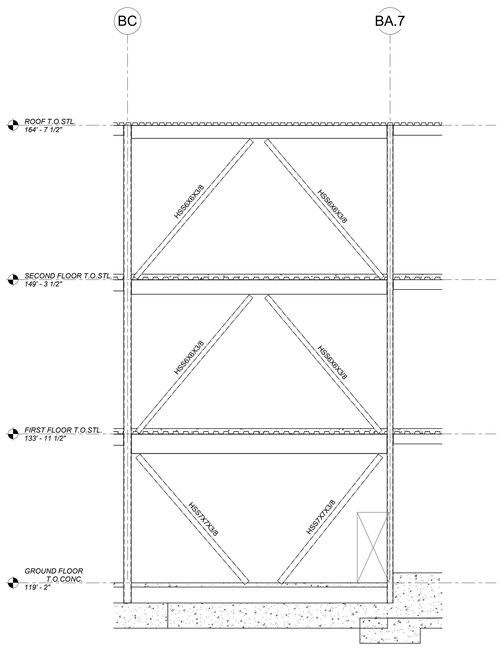


BR-B5
3/16" = 1'-0"



BR-B6
3/16" = 1'-0"



BR-B7
3/16" = 1'-0"

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KEY PLAN

N
Called North

NORTH ARROW *LICENSE STAMP*

Date 15 MAY 2020

Drawn By CMPD

Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Brace Elevations II

2.5.02

2018119

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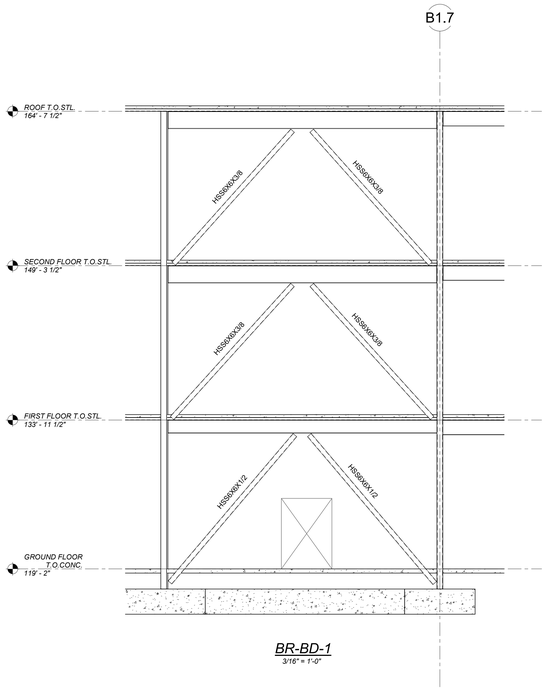
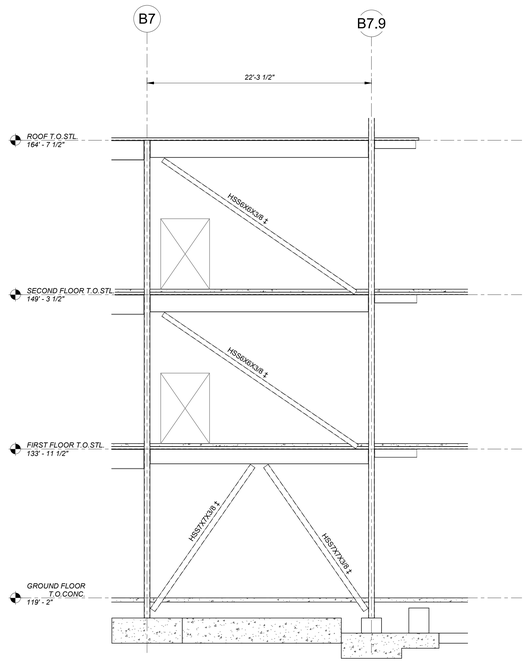


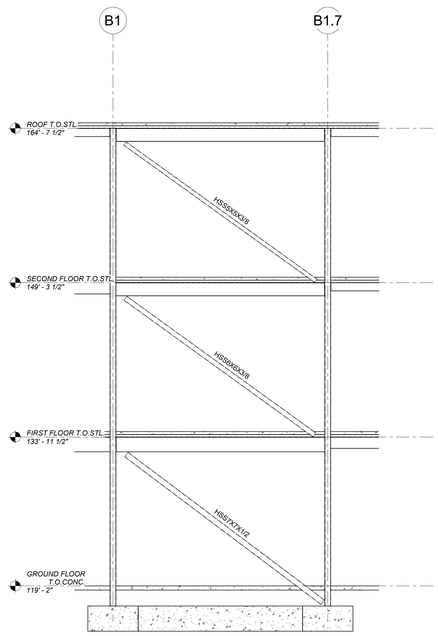
BR-BD-1

3/16" = 1'-0"



BR-BD-2

3/16" = 1'-0"



BR-BE-1

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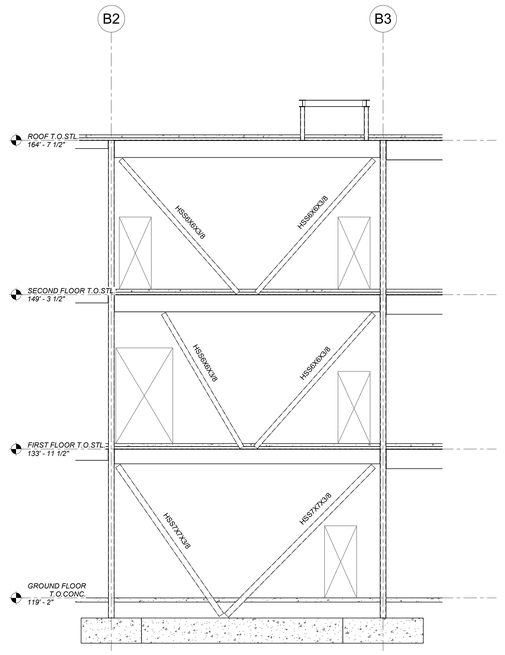

BR-BE-2

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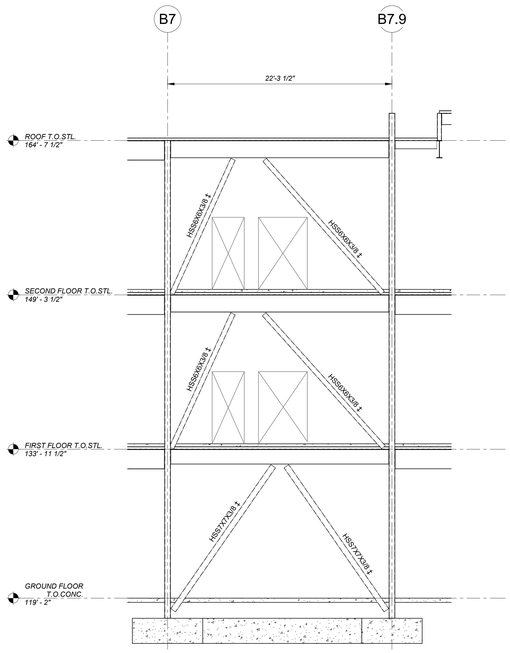

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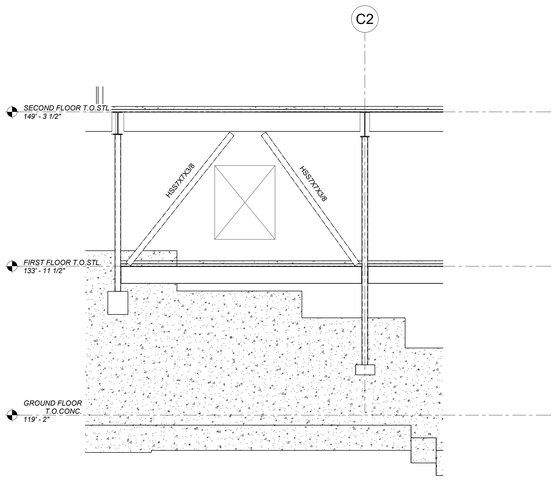
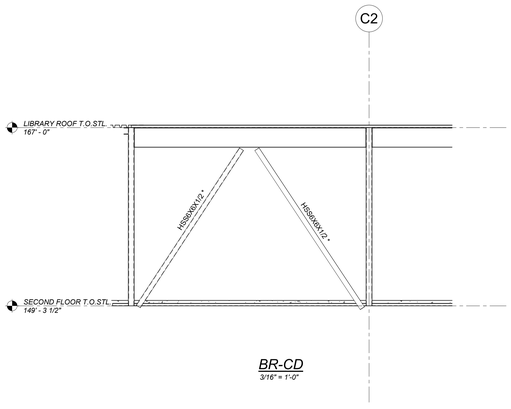


BR-CC

3/16" = 1'-0"



BR-CD

3/16" = 1'-0"

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KEY PLAN

NORTH ARROW — Called North

LICENSE STAMP

Date 15 MAY 2020

Drawn By CMPD

Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Brace Elevations III

2.5.03

2018119

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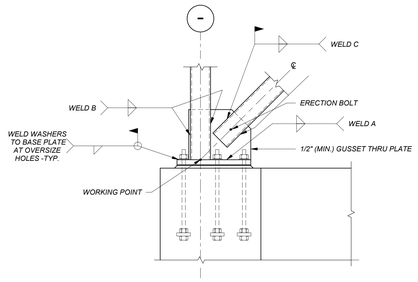
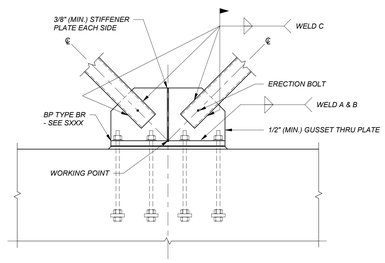


HSS COLUMN BASE AT BRACE DETAIL

STEEL BRACE CONSTRUCTION BF1

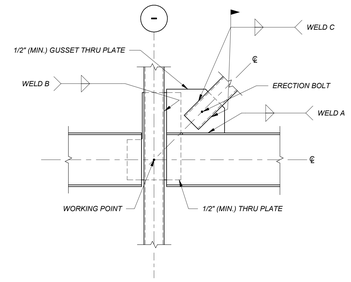
A DETAIL 3/4" = 1'-0"



HSS V BRACE BASE DETAIL

STEEL BRACE CONSTRUCTION BF5

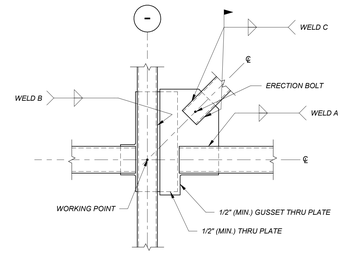
B DETAIL 3/4" = 1'-0"



HSS COLUMN TO W BEAM BRACE DETAIL

STEEL BRACE CONSTRUCTION BF6

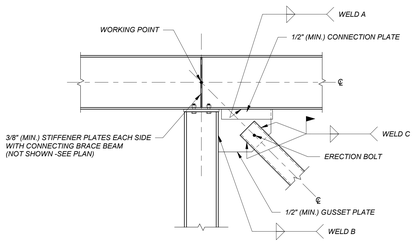
C DETAIL 3/4" = 1'-0"



HSS COLUMN TO HSS BEAM BRACE DETAIL

STEEL BRACE CONSTRUCTION BF6

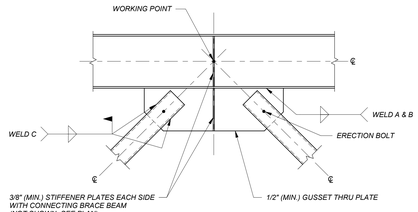
D DETAIL 3/4" = 1'-0"



W BEAM OVER COL. BRACE DETAIL

STEEL BRACE CONSTRUCTION BF8

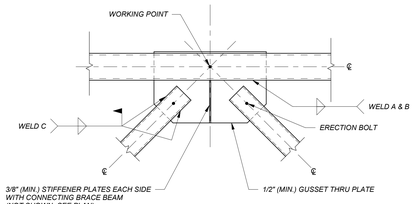
E DETAIL 3/4" = 1'-0"



W BEAM BRACE DETAIL

STEEL BRACE CONSTRUCTION BF9

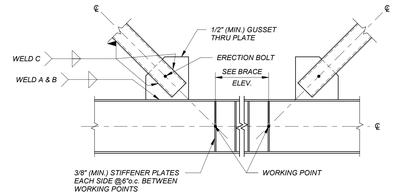
F DETAIL 3/4" = 1'-0"



HSS BEAM BRACE DETAIL

STEEL BRACE CONSTRUCTION BF9a

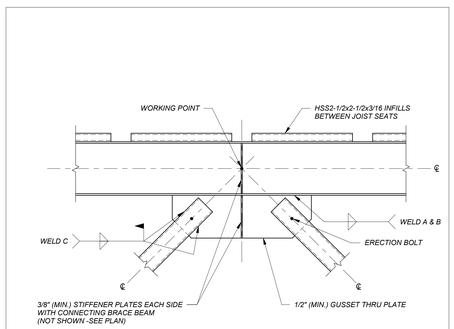
G DETAIL 3/4" = 1'-0"



W BEAM SPREAD CONNECTION BRACE DETAIL

STEEL BRACE CONSTRUCTION BF9b

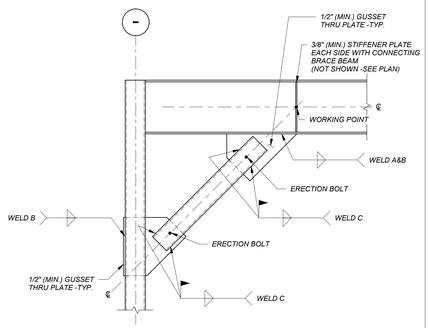
H DETAIL 3/4" = 1'-0"



W ROOF BEAM BRACE DETAIL

STEEL BRACE CONSTRUCTION BF10

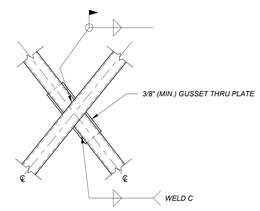
I DETAIL 3/4" = 1'-0"



KNEE BRACE DETAIL

STEEL BRACE CONSTRUCTION BF11

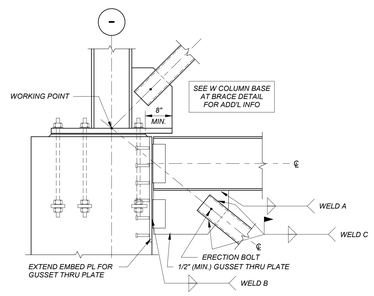
J DETAIL 3/4" = 1'-0"



HSS X BRACE DETAIL

STEEL BRACE CONSTRUCTION BF12

K DETAIL 3/4" = 1'-0"



W COLUMN BASE

STEEL BRACE CONSTRUCTION BF13

L DETAIL 3/4" = 1'-0"

DETAIL NOTES:

WELD A: WELD SIZE TO FULLY DEVELOP THE HORIZONTAL COMPONENT OF THE BRACE FORCE SHOWN.

WELD B: WELD SIZE TO FULLY DEVELOP THE VERTICAL COMPONENT OF THE BRACE FORCE SHOWN PLUS THE SPECIFIED BEAM REACTIONS FOR GRAVITY LOADS.

WELD C: WELD SIZE TO FULLY DEVELOP THE BRACE FORCE SHOWN.

BRACE FRAME DETAILS

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99 Chauncy Street, Suite 901
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KEY PLAN

NORTH ARROW (Called North) LICENSE STAMP

Date 15 MAY 2020

Drawn By CMPD

Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Brace Details I

2.5.04

2018119

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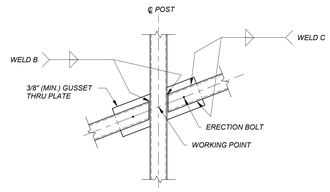
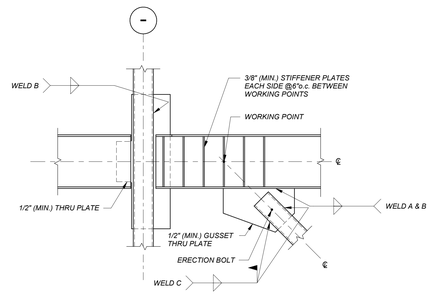


BRACE SPLICE AT HSS POST

STEEL BRACE CONSTRUCTION BF14

1 *DETAIL*
3/4" = 1'-0"



HSS COLUMN TO W BEAM ECCENTRIC BRACE DETAIL

STEEL BRACE CONSTRUCTION BF15

2 *DETAIL*
3/4" = 1'-0"

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KEY PLAN

NORTH ARROW

LICENSE STAMP

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Revisions

Number	Date	Description

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Brace Details II

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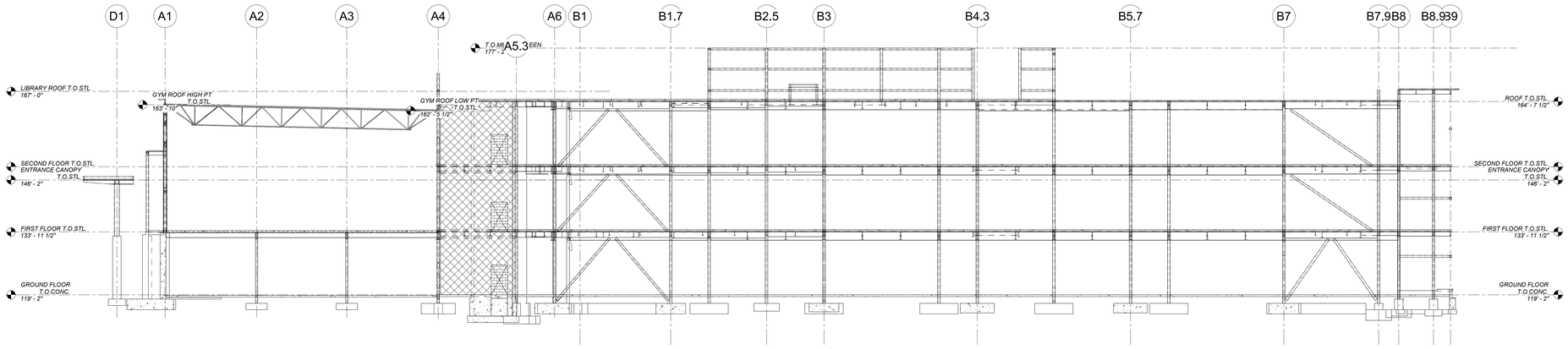
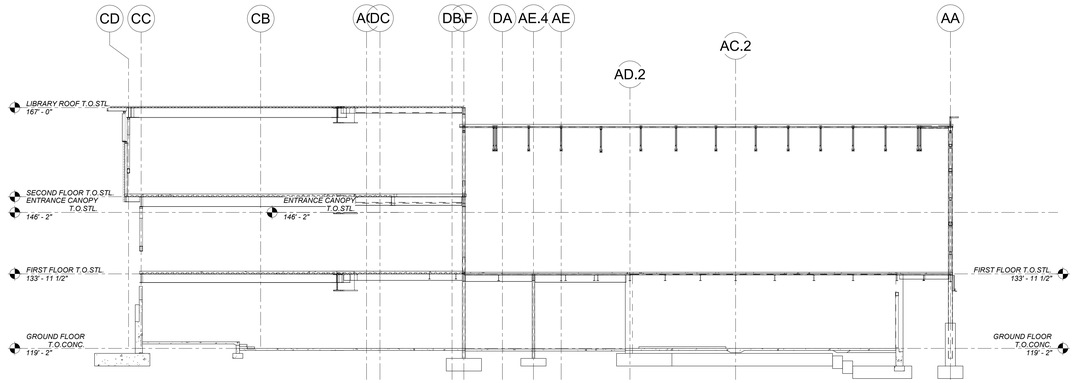


A BUILDING SECTION
3/32" = 1'-0"



B BUILDING SECTION
3/32" = 1'-0"

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KEY PLAN

NORTH ARROW — Called North

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Revisions

Number	Date	Description

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Building Sections

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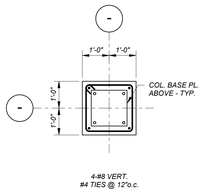
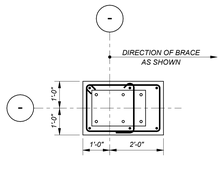


P-1



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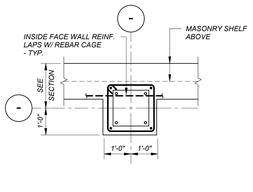

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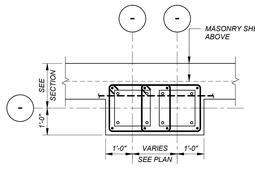

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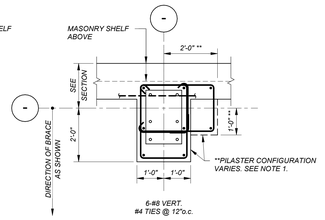
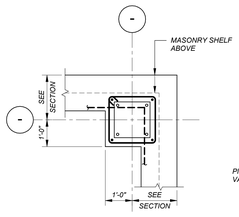


P-2BR



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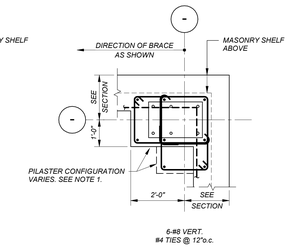
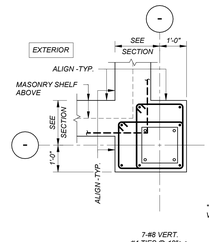
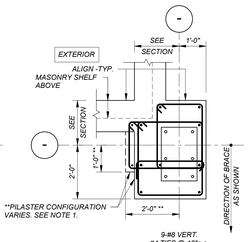


P-3BR



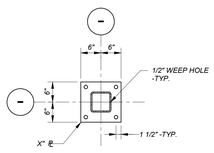
P-4



P-4BR

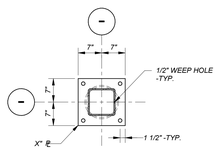
NOTES:

1. *AT PIERS/PILASTERS SUPPORTING BRACE COLUMNS (PIERS/PILASTERS WITH THE "BR" SUFFIX (EX: P-1BR)) ENLARGE THE 12" DIMENSION TO 24" IN THE DIRECTION OF THE BRACE TO SUPPORT THE ENLARGED BRACE COLUMN BASE PLATE -TYPICAL. COORDINATE PIER/PILASTER EXTENSIONS WITH PLANS AND BRACE ELEVATIONS.*
2. *AT THE TOP OF PIERS/PILASTERS, PROVIDE TIES WITH 4 SPACES @ 3" o.c. AND THE BALANCE AS INDICATED ABOVE (SEE SECTIONS) -TYPICAL.*
3. *WALL REINFORCING NOT SHOWN FOR CLARITY, CONTINUE THROUGH PILASTER.*
4. *REFER TO SECTIONS FOR WALL THICKNESS, REINFORCING, AND LOCATION FROM COLUMN GRID.*



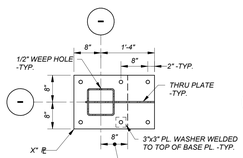
HSS6x6

TYPE A



HSS8x8, HSS10Ø

TYPE B



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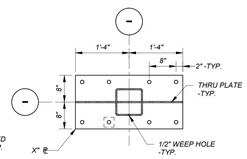
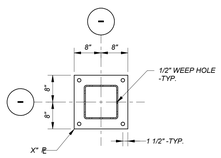
TYPE B-BR



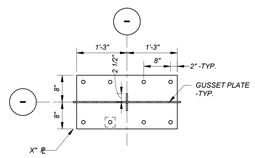
HSS8x8, HSS10Ø

TYPE B-BR



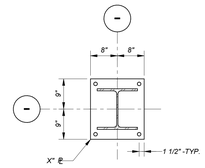
HSS10x10

TYPE C



V BRACE CONNECTIONS

TYPE BR



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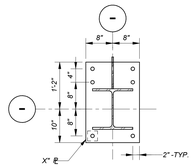
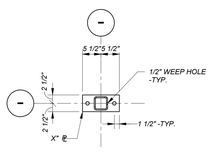
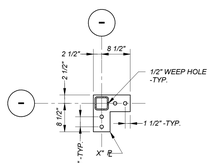


TYPE C-BR



HSS4x4

TYPE X

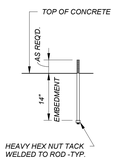


HSS4x4

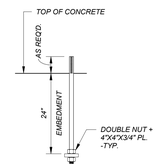
TYPE X

NOTES:

1. *BASE PLATE TYPE NOTED ON PLAN AS BP-"X".*
2. *PROVIDE 3/4"øx14" EMBEDMENT F1554-36 ANCHOR RODS W/ TACK WELDED NUT AT ALL BASE PLATES UNLESS NOTED OTHERWISE.*
3. *PROVIDE 1 1/4"øx24" EMBEDMENT F1554-105 ANCHOR RODS W/ 4"x4"x3/4" PLATE WASHERS IN BETWEEN DOUBLE NUTS AT BRACE COLUMNS (NOTED ON PLANS AS BASE PLATE TYPE BP-"X" BR.)*
4. *PROVIDE 3"x3"x3/8" PLATE WASHERS UNDER NUTS ON TOP OF TYPE "X"-BR BASE PLATES. OVERSIZED HOLES IN BASE PLATES TO BE GROUTED SOLID PRIOR TO INSTALLING TOP NUTS AND WASHERS AND PLATE WASHERS TO BE WELDED ALL AROUND TO BASE PLATES. TYPICAL AT BRACE COLUMNS.*
5. *PROVIDE 1/4" LEVELING PLATE AND 3/4" NON-SHRINK GROUT UNDER ALL BASE PLATES.*



3/4" DIAMETER F1554 GRADE 36 (AB-1)



1-1/4" DIAMETER F1554 GRADE 105 (AB-2)

ANCHOR ROD DETAILS

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KEY PLAN

NORTH ARROW — LICENSE STAMP

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Revisions

Number	Date	Description

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Pier, Pilaster, and Base Plate Details

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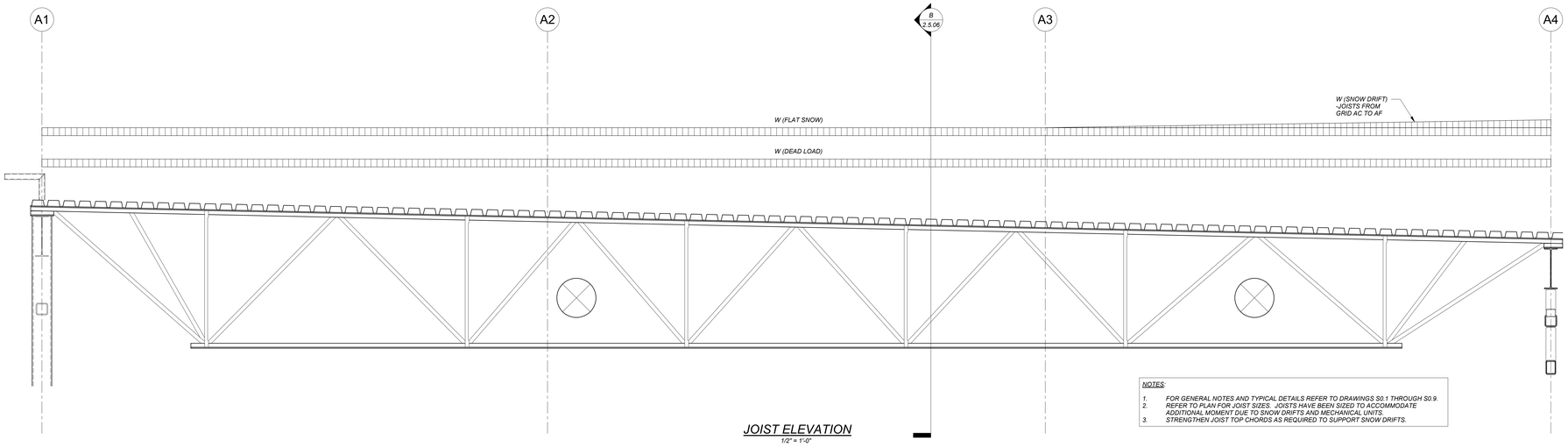

JOIST ELEVATION

1/2" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND TYPICAL DETAILS REFER TO DRAWINGS S0.1 THROUGH S0.9.
2. REFER TO PLAN FOR JOIST SIZES. JOISTS HAVE BEEN SIZED TO ACCOMMODATE ADDITIONAL MOMENT DUE TO SNOW DRIFTS AND MECHANICAL UNITS.
3. STRENGTHEN JOIST TOP CHORDS AS REQUIRED TO SUPPORT SNOW DRIFTS.

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KEY PLAN

NORTH ARROW

LICENSE STAMP

Date 15 MAY 2020

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Revisions

Number	Date	Description

60% COST ESTIMATE SET

Joist Elevations

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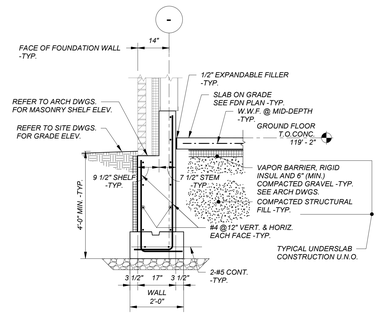
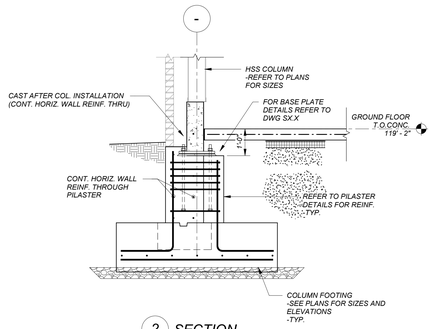


1 SECTION
1/2" = 1'-0"



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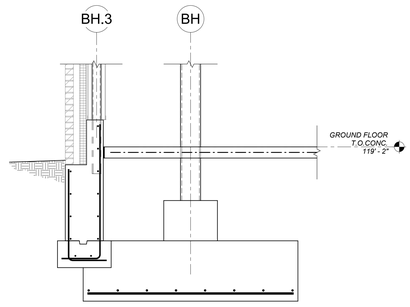

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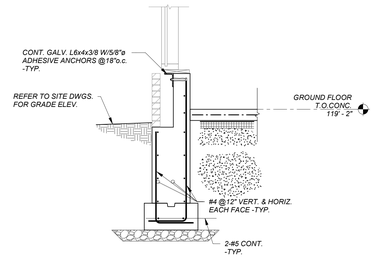

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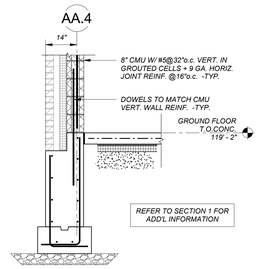

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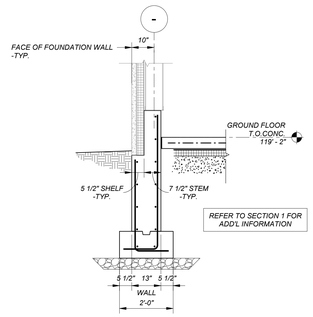

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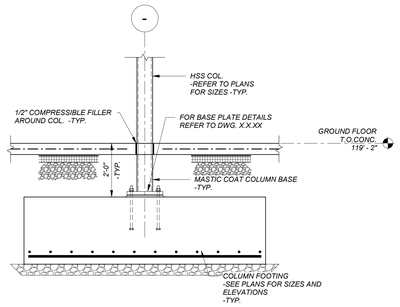

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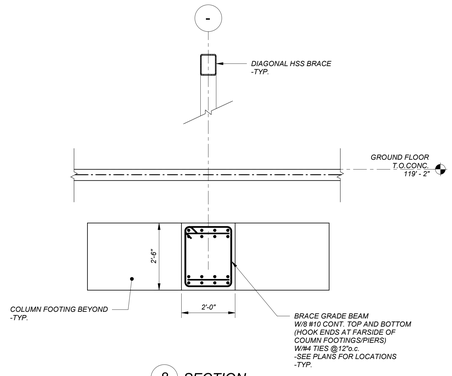

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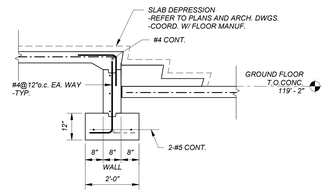

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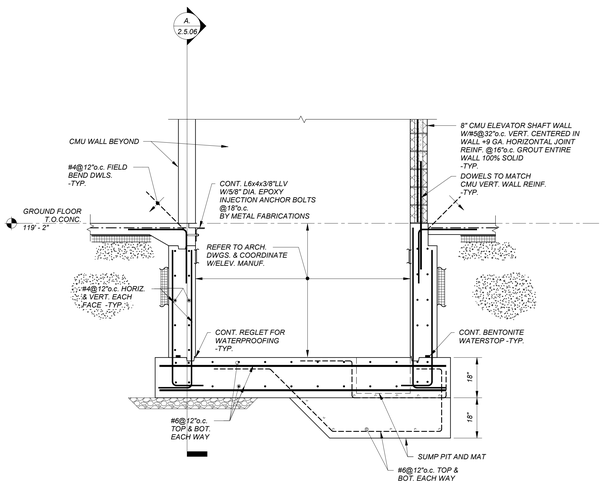

10 SECTION
1/2" = 1'-0"

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KEY PLAN

NORTH ARROW — LICENSE STAMP

Date 15 MAY 2020

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Scale 0

Revisions

Number	Date	Description

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Foundation Sections I

2.6.01

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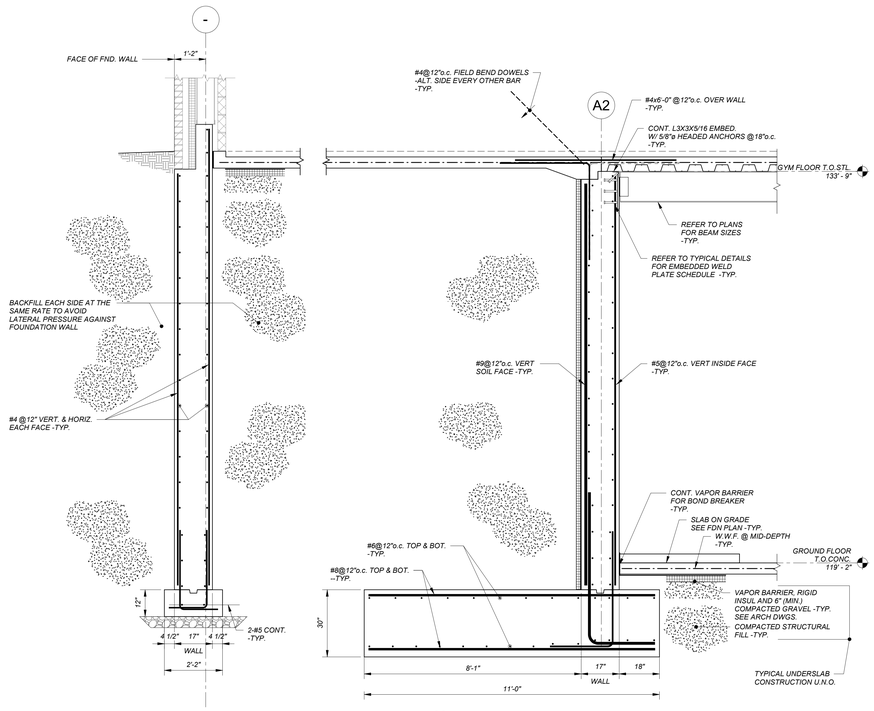

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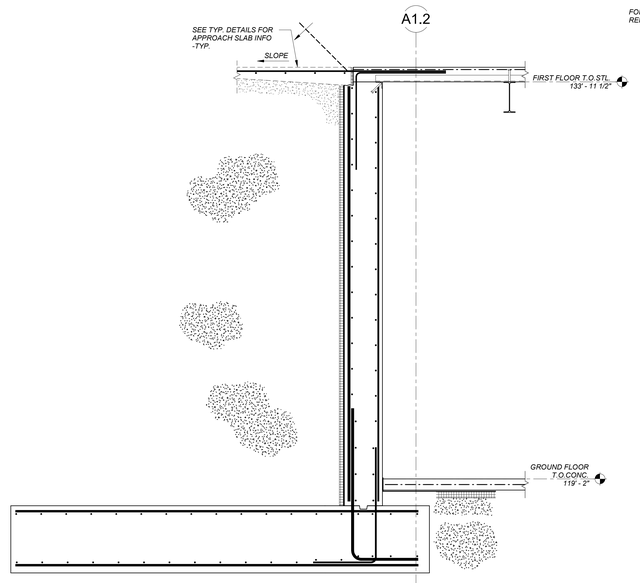

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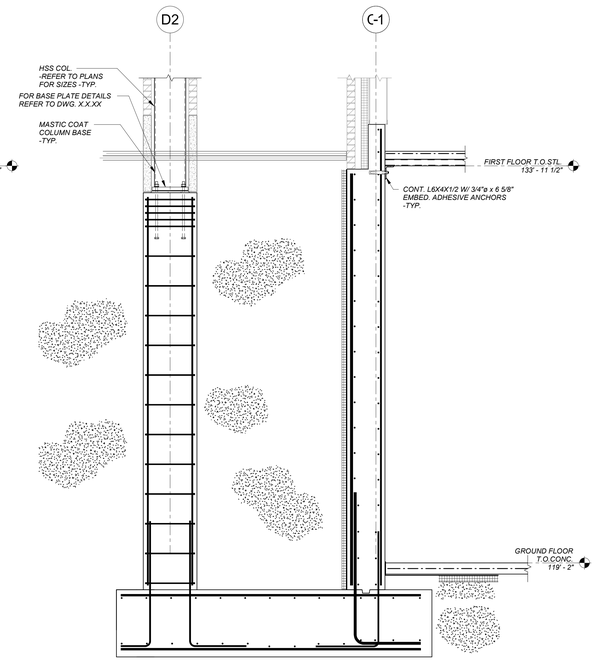

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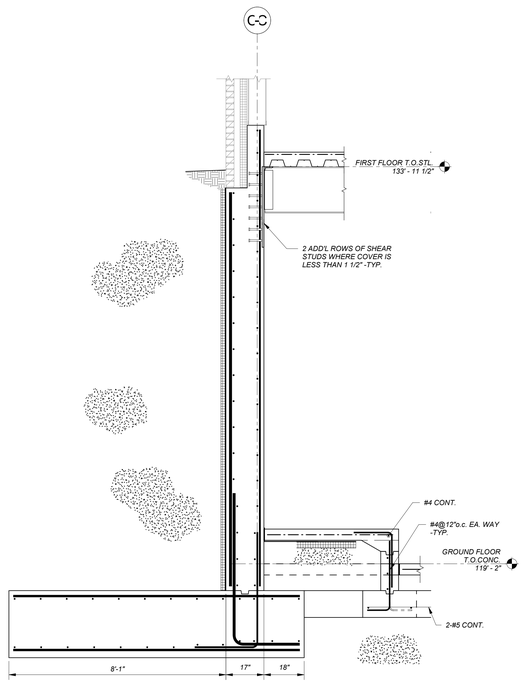

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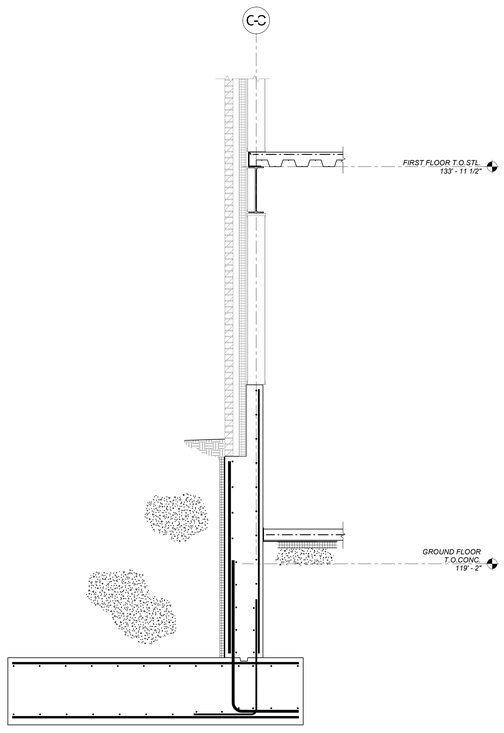

5 SECTION
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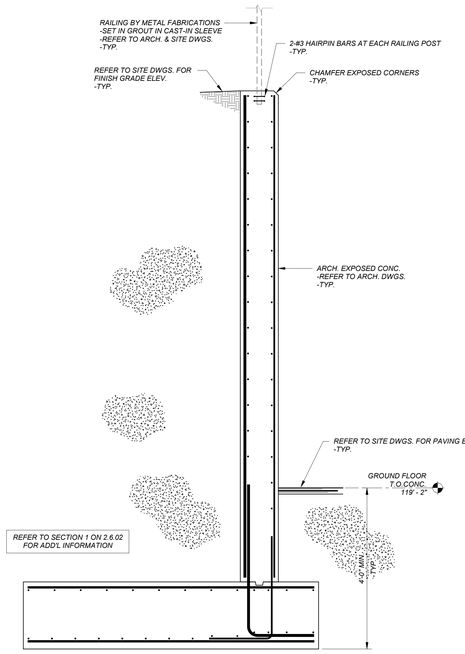

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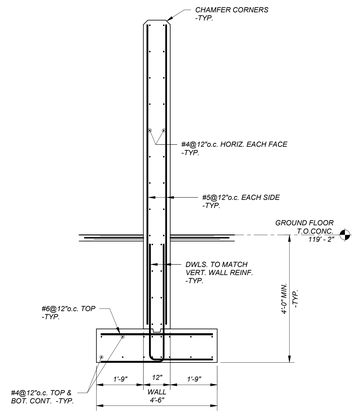

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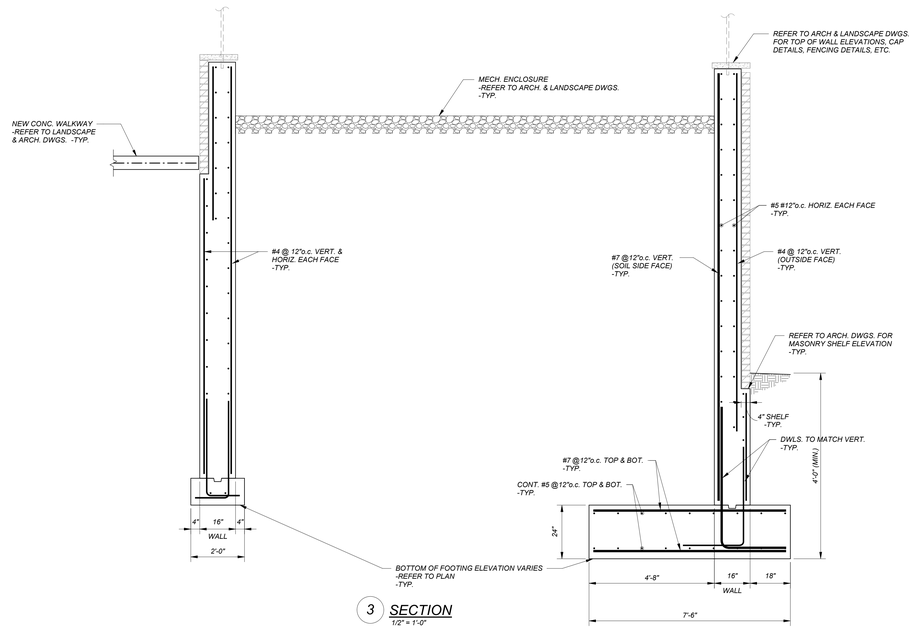

3 SECTION
1/2" = 1'-0"

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NORTH ARROW

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Number	Date	Description

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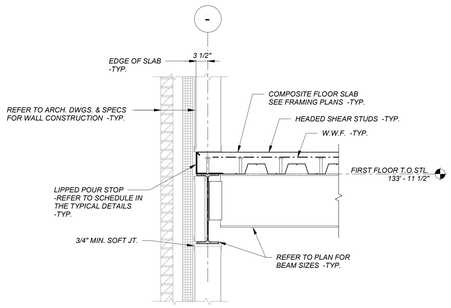

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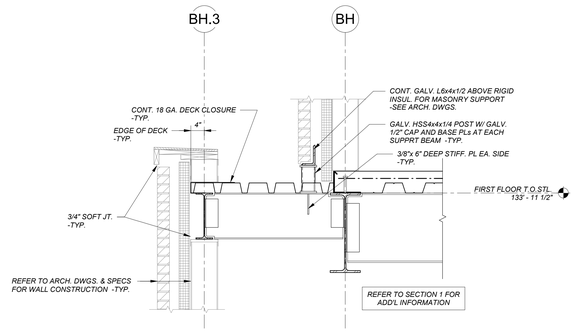

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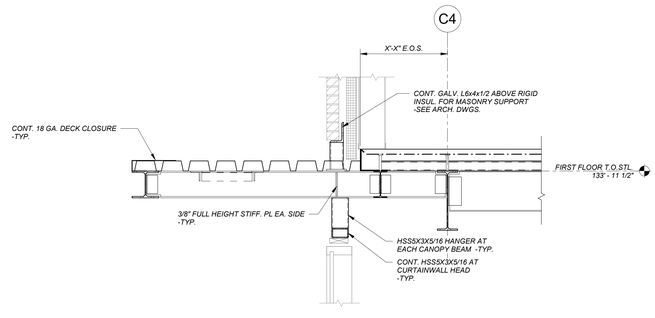

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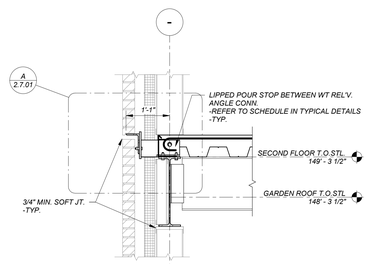

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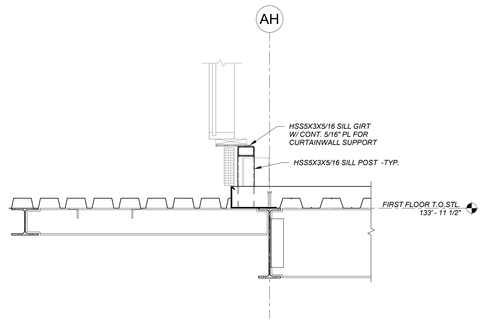

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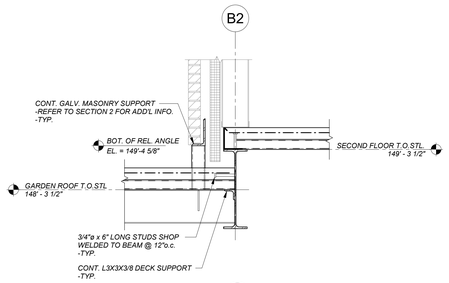

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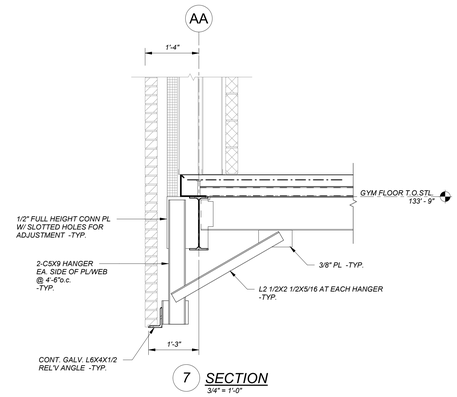

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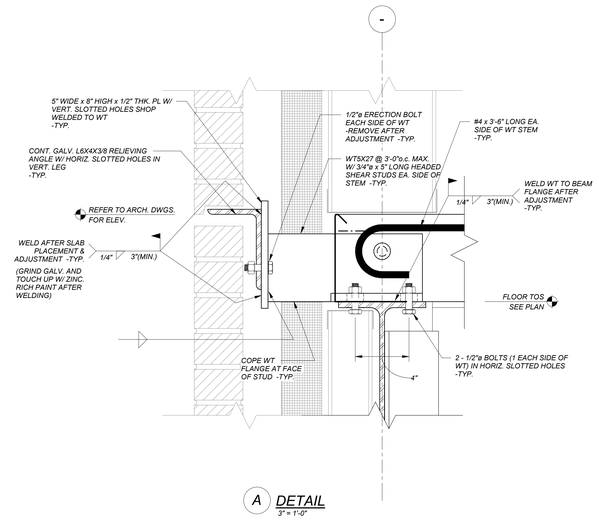

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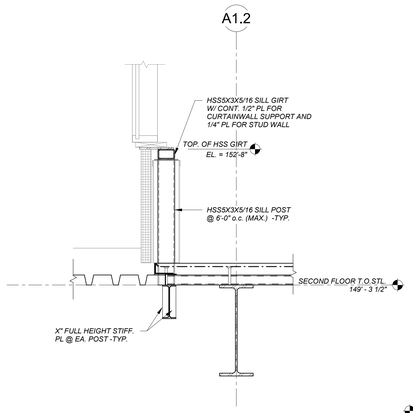

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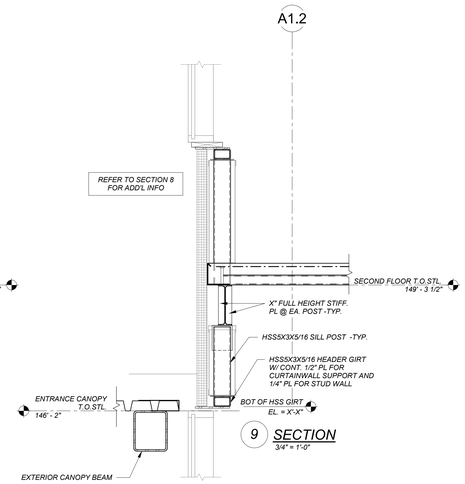

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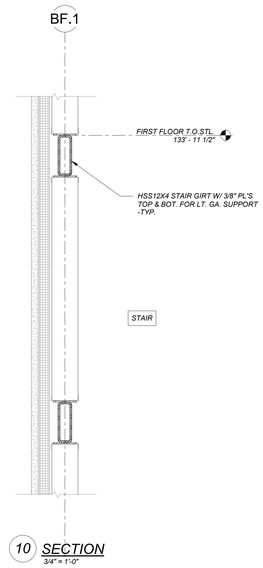

10 SECTION
3/4" = 1'-0"

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Revisions

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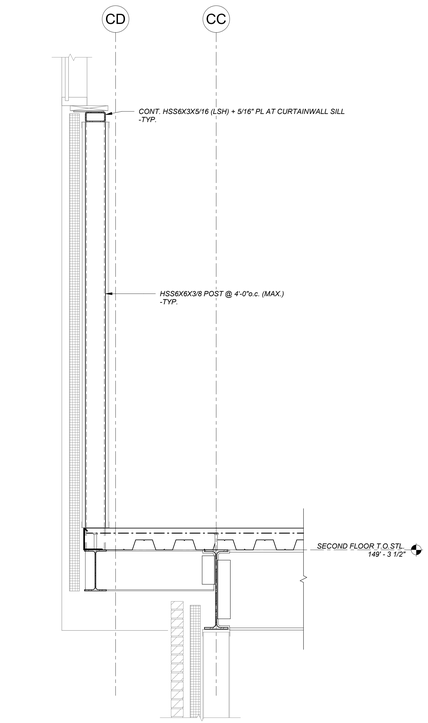

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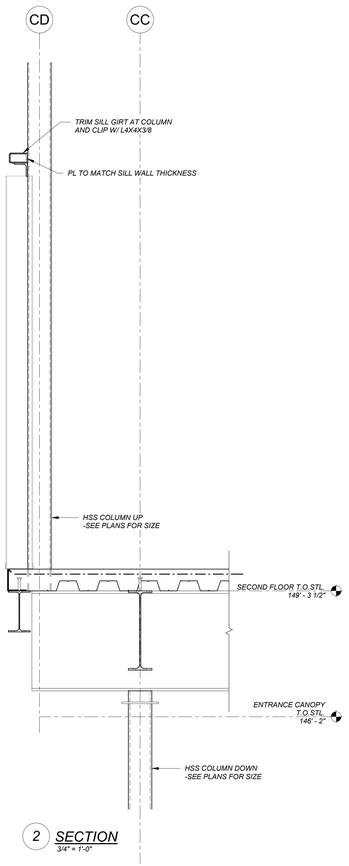

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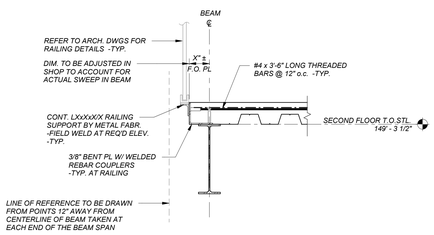

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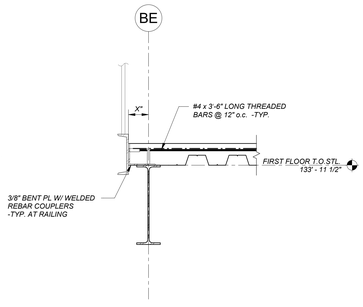

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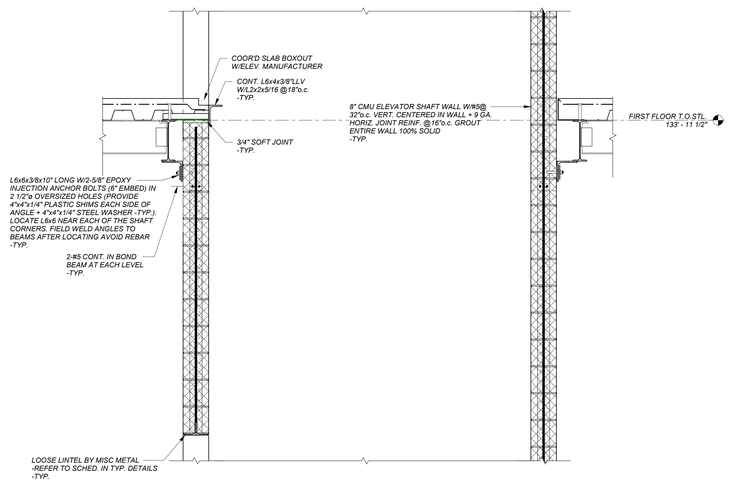

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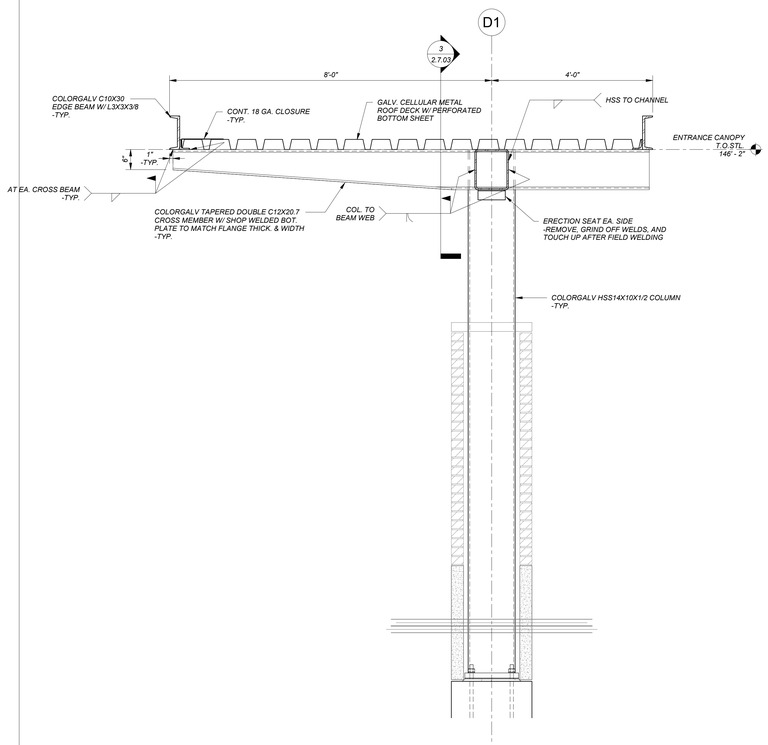

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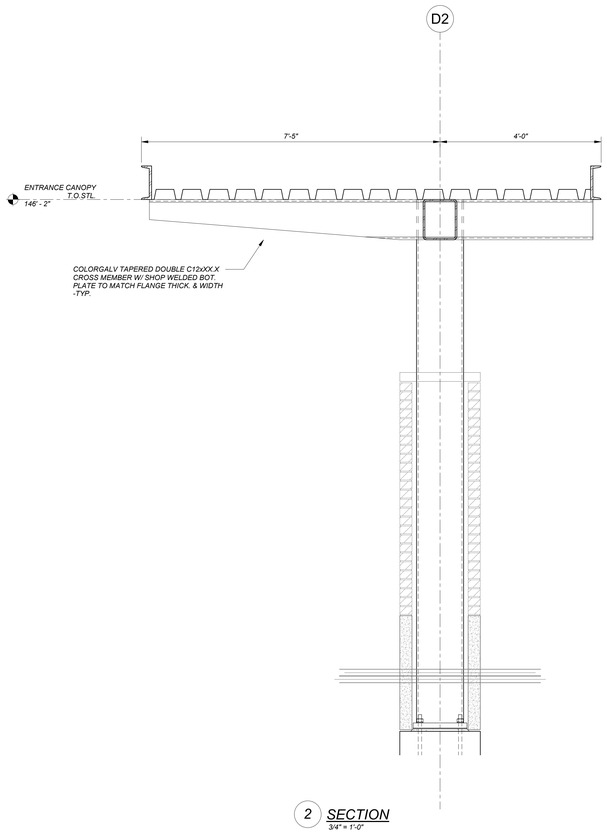

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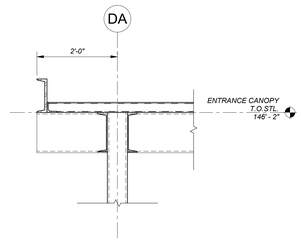

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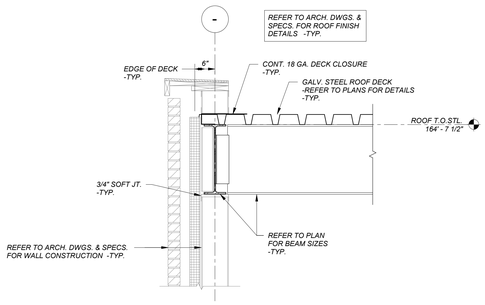
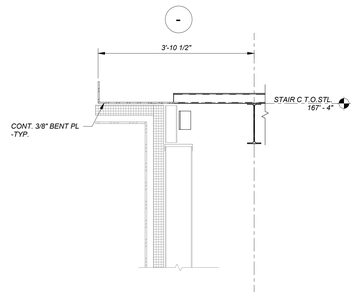


1 SECTION
3/4" = 1'-0"



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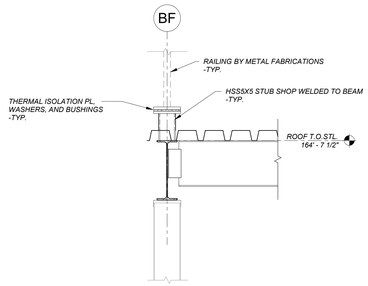

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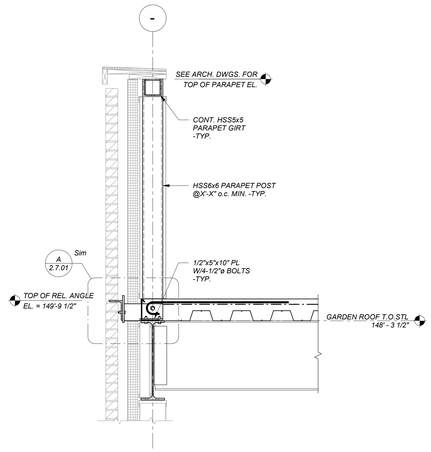
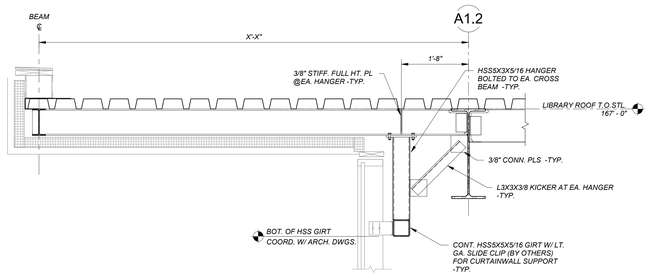
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"



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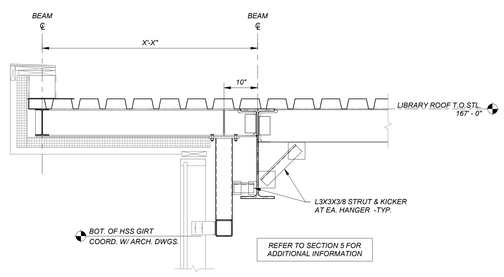
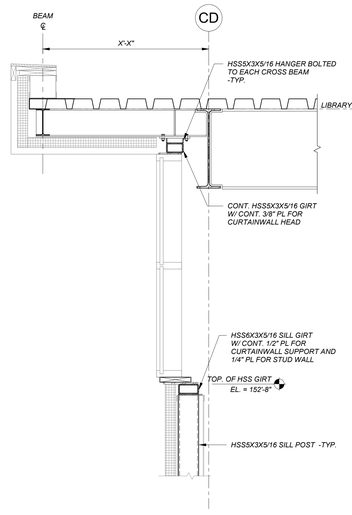
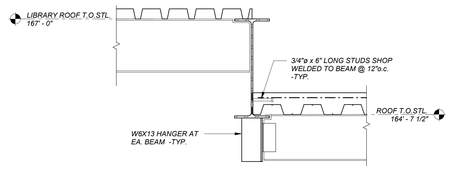
3/4" = 1'-0"



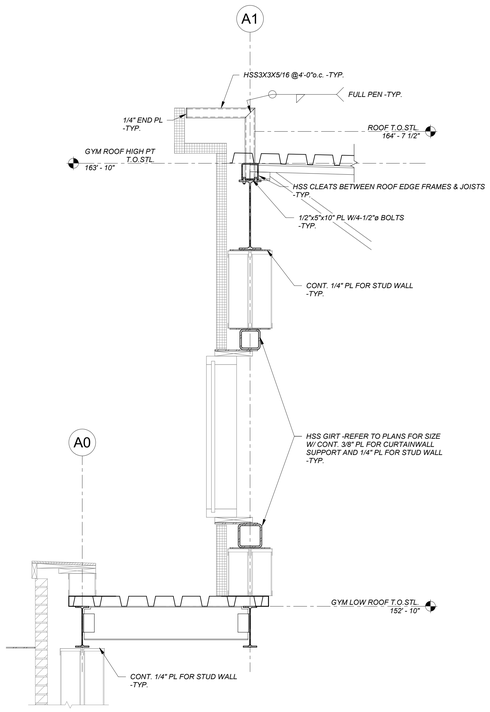
6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"



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



9 SECTION
3/4" = 1'-0"

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KEY PLAN

NORTH ARROW — LICENSE STAMP

Date 15 MAY 2020

Drawn By CMPD

Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Roof Framing Sections I

2.8.01

2018119

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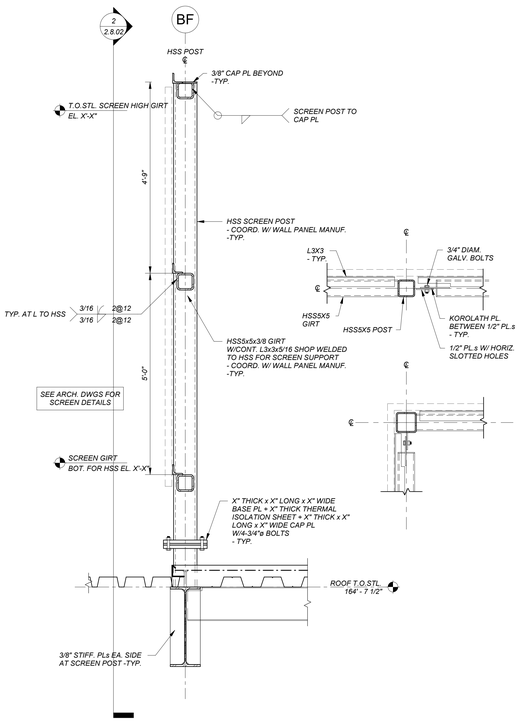
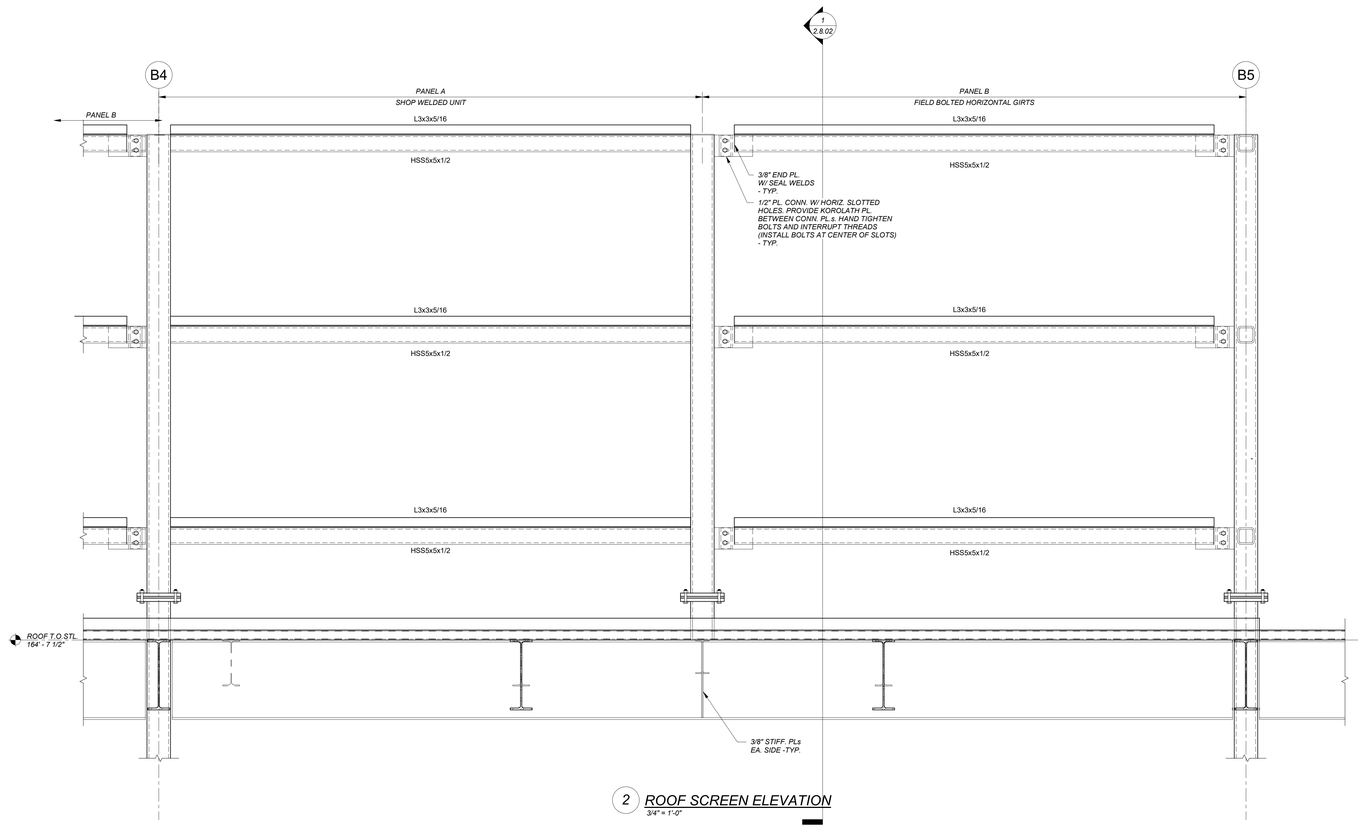
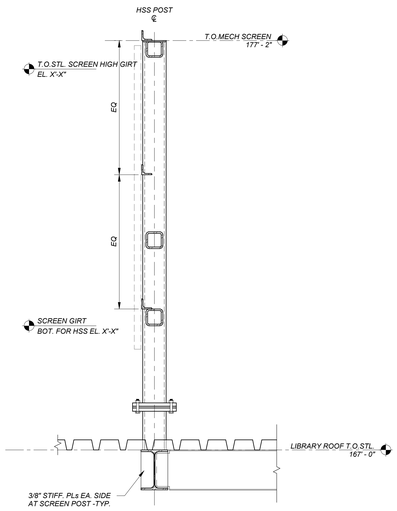


1 SECTION
3/4" = 1'-0"



2 ROOF SCREEN ELEVATION
3/4" = 1'-0"



3 SECTION
3/4" = 1'-0"

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KEY PLAN

NORTH ARROW — LICENSE STAMP

Date 15 MAY 2020

Drawn By KMM

Scale 0

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Roof Framing Sections II

2.8.02

2018119

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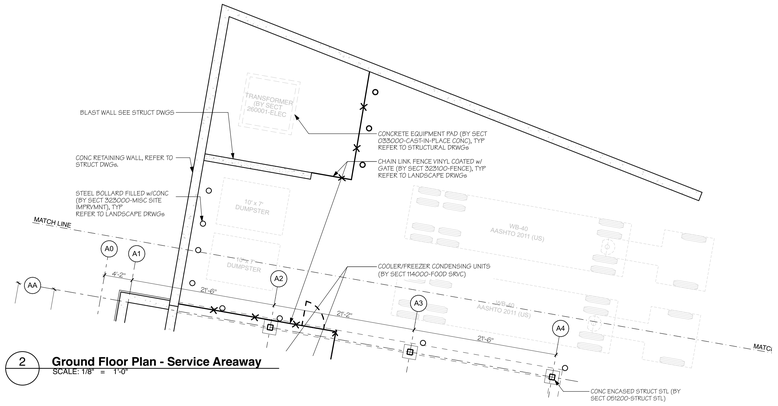

2 **Ground Floor Plan - Service Areaway**
SCALE: 1/8" = 1'-0"

SPRINKLER 016
MECH 015
RECEIVING - STOREROOM 017
CUSTODIAN OFFICE 018
CUSTODIAN WORKSHOP 019
RECYCLING - TRASH 013
MAIN ELEC. 014
FREEZER 008
COOLER 007
KITCHEN 005
STORAGE 006
SERVERY 005A
OFFICE 010
RECYCLE ROOM 009
MOP 0012
TOILET 011
BOYS 0026
GIRLS 0009
EE 022
ELEVATOR 021
ECH 021
STAIR B 050
CORRIDOR C002
WALL ALCOVE C004
LOWER LOBBY C001
VESTIBULE 003
STAFF 023
QUIET ROOM 056
PROJECT AREA C003A
STORAGE 053
RISE 055
RISE JR. 054
KINDERGARTEN 052
KINDERGARTEN 051
KINDERGARTEN 047
KINDERGARTEN 046
KINDERGARTEN 044
CORRIDOR C003
CORRIDOR C004
CORRIDOR C005
CORRIDOR C006
CORRIDOR C007
RISE-SMALL GROUP 050
ALCOVE C003B
NETWORK 052
PROJECT AREA C004B
CUST. 050
SMALL GROUP 049
ELEC 048
PROJECT AREA C006A
PROJECT AREA C006B
STAIR C SC00
TEACHER DINING / WORKROOM 024
RISE MOTOR RM 051
PRE K 053
PRE K 054
PRE K 055
KINDERGARTEN 059
KINDERGARTEN 040
KINDERGARTEN 041
STORAGE 004
RAMP 003A
CAFETERIA 002
PLATFORM 003
VESTIBULE 002A
STORAGE 056
TOILET 057
STAFF 058A
STAFF 058B
TOILET 044A
TOILET 040A
TOILET 041A
TOILET 046A
TOILET 047A
TOILET 051A
TOILET 052A
TOILET 053A
TOILET 054A
TOILET 034A
TOILET 035A
TOILET 039A
TOILET 059A
MATCH LINE
CONC RETAINING WALL, REFER TO STRUCT DWGs.
CONC RETAINING WALL, SEE STRUCT DWGS, TYP
COOLER/FREEZER CONDENSING UNITS (BY SECT 114000-FOOD SRVC)
CONC ENCASED STRUCT STL (BY SECT 051200-STRUCT STL)
LINE OF BUILDING ABOVE
HOUSEKEEPING PAD, TYP (BY SECT 033000-CAST CONC)
METAL LOCKERS
SERVICE SINK
OIL INTERCEPTOR
MOP SINK
HOUSEKEEPING PAD, TYP
FULL HT WALL TILE, BOTH SIDES
1/4" SOLID SURFACE DOOR SURROUND
DRINKING FOUNTAIN w/ BOTTLER FILLER, TYP.
FULL HT WALL TILE, SEE INTERIOR ELEVS
HDWD SHIPLAP PANEL COLUMN ENCLOSURE (BY SECT 062000-FIN CARP)
FLAT SCREEN CONTENT MONITOR
DOUBLE SIDED DISPLAY CASE (BY SECT 062000-FIN CARP)
FRP/FIN ALUMINUM CURTAINWALL SYSTEM
HDWD SHIPLAP PANEL SYSTEM (BY SECT 062000-FIN CARP)
WALK-OFF MAT (BY SECT 124813-MATS), TYP
CUSTOM WOOD BENCH (BY SECT 062000-FIN CARP) w/INTEGRATED HVAC REGISTERS (BY SECTION 230001-HVAC)
WALK-OFF MAT (BY SECT 124813-MATS)
RECESSED WALK-OFF GRATE SYSTEM (BY SECT 124813-MATS), TYP
SS HANDRAILS, BOTH SIDES
CONC RAMP W/ LCT FLOOR COVERING
GWB BULKHEAD (.ILO. PROSCENIUM) ABOVE
FRP/FIN HDWD RISERS AND TREADS TO MATCH PLATFORM FLOORING SYSTEM
ELEC OPERATED PROJ SCRN (BY SECT 115213-PROJ SCRN)
BI-PARTING STAGE CURTAIN (BY SECT 116143-STAGE DRAPES)
HARDWOOD STAGE SYSTEM FLOORING
KEAR PROJECTION PROJECTOR (BY SECT 274000-AV COMM SYST)
PHENOLIC SHIPLAP SIDING SYSTEM
HDWD SHIPLAP COLUMN COVER (BY SECT 062000-FIN CARP) , TYP
ELEC OPERATED ROLLER SHADES TIED TO LIGHTING CONTROL SYSTEM (BY SECT 122413-ROLLER SHADE), TYP
WALK-OFF MAT (BY SECT 124813-MATS), TYP
HP ACCESS DOOR w/ELECTRIC DOOR OPENER TIED TO ACCESS CONTROL SYSTEM
HP ACCESS DOOR w/ELECTRIC DOOR OPENER TIED TO ACCESS CONTROL SYSTEM
STAIR STRUCTURE COLUMNS & BEAMS 1 HR RATED (TYP OF STAIRS B & C)
WAINSCOT TILE BOTH SIDES (TYP) SEE INTERIOR ELEVS
SHR RATED HORIZ SHAFT SYSTEM ABOVE (BY SECT 092216 -GWB)
MB LOCATED LOW & TB LOCATED HIGH (BY SECT 101100-MBs&TBs), TYP
WAINSCOT TILE, SEE INTERIOR ELEVS
CUSTOM WOOD BENCH (BY SECT 062000-FIN CARP)
HDWD CAPPED CUSTOM MILLWORK w/ TACK SURFACE & MAGNETIC MARKER BOARD w/ HSS POST WELDED TO BASE PLATE, BOLTED TO SLAB AT 4'-0" O.C., TYP AT PROJECTS AREA SEE MILLWORK DWGS
HDWD SHIPLAP PANEL AT PORTE (BY SECT 062000-FIN CARP)
DRINKING FOUNTAIN w/ BOTTLER FILLER, TYP.
2X BLOCKING AND PLYWOOD, PTD AT ALL WALLS (ALL ELECT ROOMS)
WAINSCOT TILE, SEE INTERIOR ELEVS
PRINTER & TECHNOLOGY CART-CHARGING AREA w/ BASE & WALL CABINETS (BY SECT 062000-FIN CARP)
MB LOCATED LOW & TB LOCATED HIGH (BY SECT 101100-MBs&TBs), TYP
HOLLOW METAL FRAME w/ SOLID WOOD DOOR, TYP.
HEAVY DUTY ALUM DOOR ON ACCESS CONTROL SYSTEM
LOCATION OF 'GRAPHIC ART WALL'
TYPICAL GUARDRAIL/HANDRAIL ASSEMBLY
-EXPOSED HSS STRINGER PRIMED & PTD
-5/8" X 3" VERTICAL S.S. SUPPORTS
-1" X 3" S.S. MESH INFILL PANEL
-CONTINUOUS S.S. HANDRAIL
SEE INT ELEVATIONS FOR TACK BOARD ABOVE
TYPICAL PRE K & KINDERGARTEN CLASSROOM
HMLF FRAME (BY SECT 081113-HOLLOW MTL) PTD (BY SECT 099000-PAINTS) w/(KEF)IN WD DOOR (BY SECT 081416-WD FLAG DOOR)
OPEN WD CUBBIES BASE (BY SECT 062000-FIN CARP) w/SLIDING MB PANELS (BY SECT 101100-MBs&TBs) w/WD SHELF & MTL STANDARDS (BY SECT 062000-FIN CARP)
HARDWOOD SILL & APRON, TYP. EACH WINDOW
SWING SUPPORTS (BY SECT 051200-STRUCT STL), W/ SS POST AND PLATE (BY SECT 055000-MISC MTL)
BUILT-IN WD CUBBIES, TYP. EA.
TYPICAL CONSTRUCTION
TYPICAL WOOD CONSTRUCTION
GWB SOFFIT
GWB SOFFIT
GWB SOFFIT

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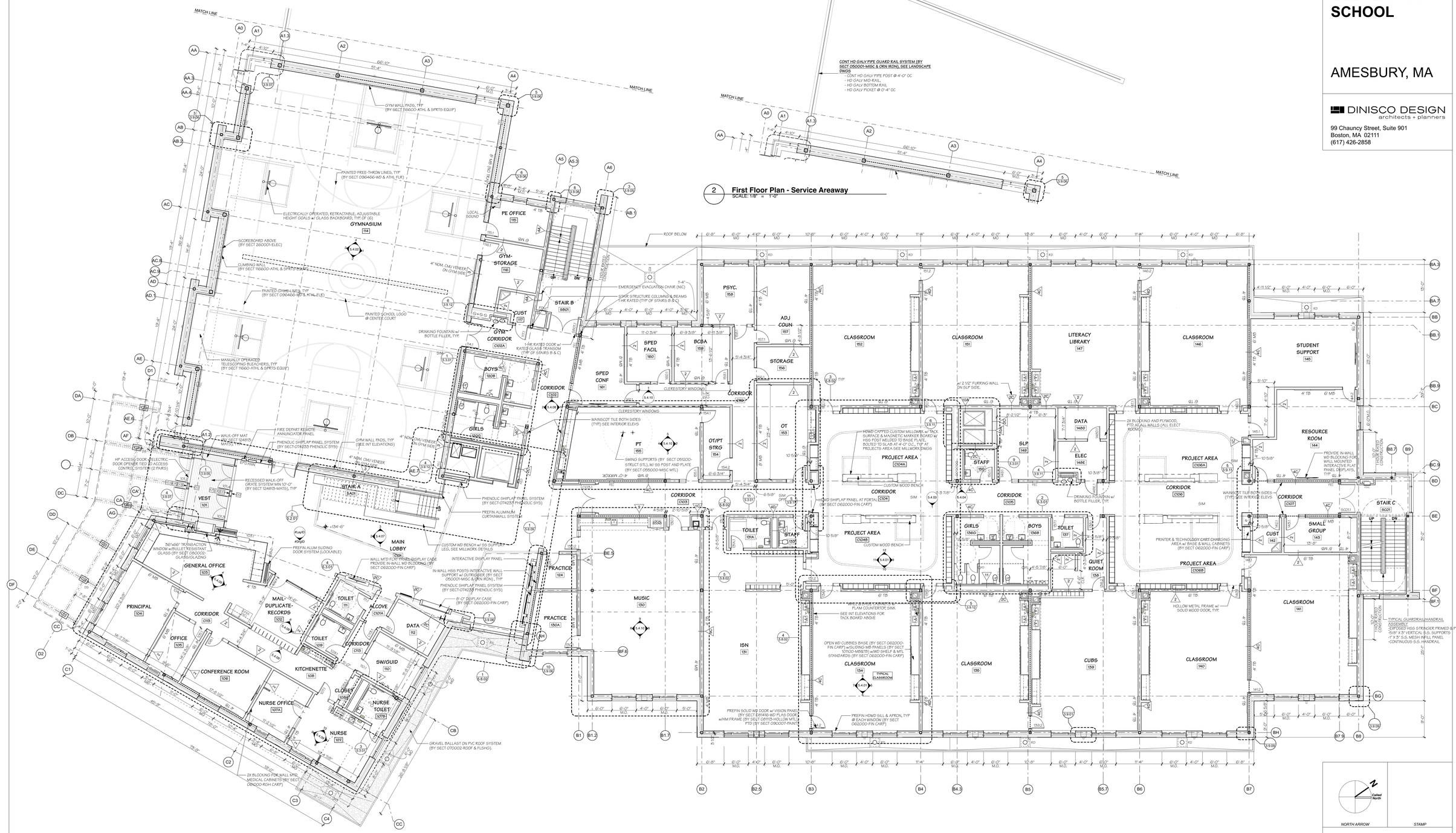

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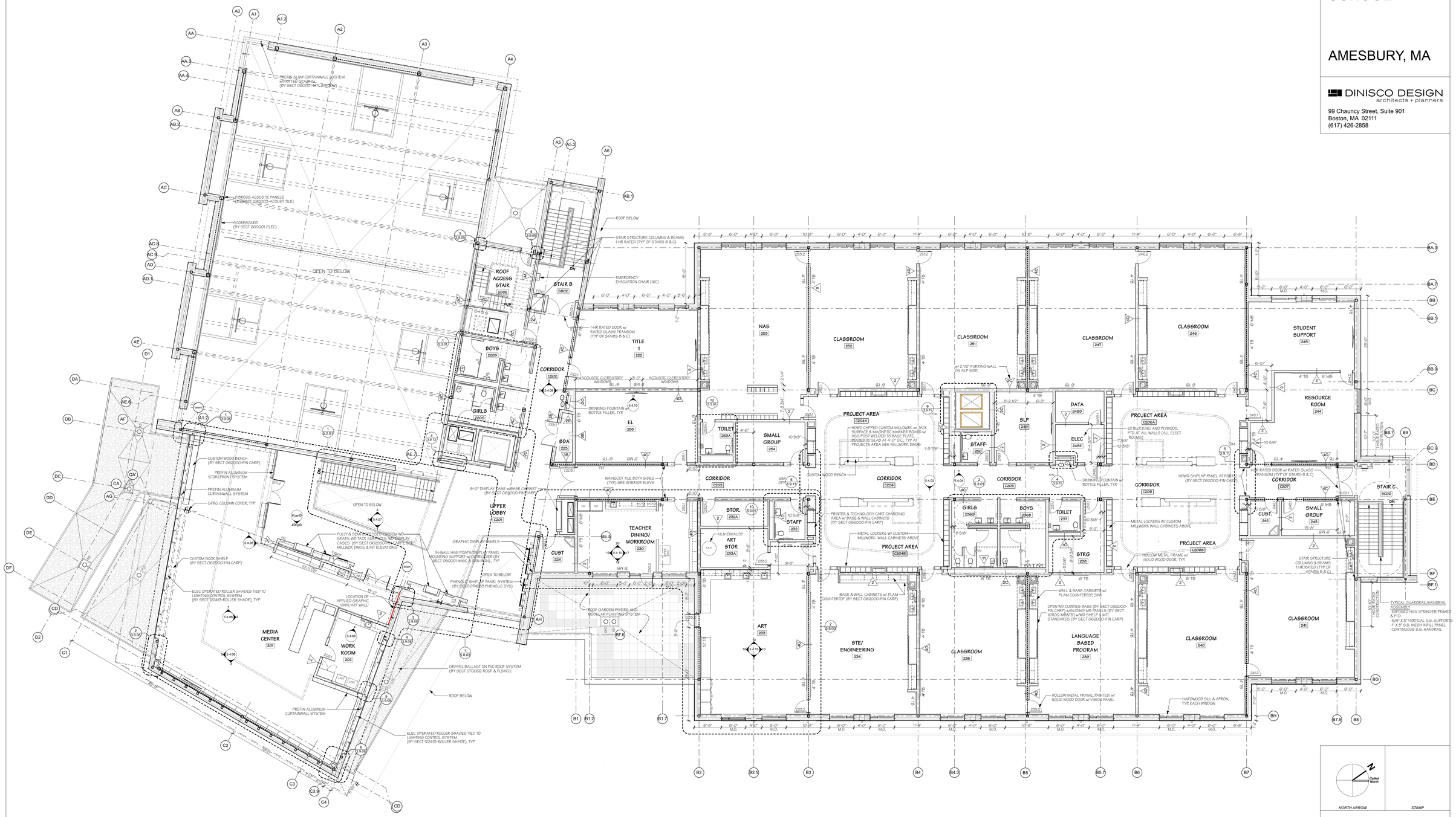

Date: 15 MAY 2020

Drawn By: BS

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Second Floor Plan

3.4.03

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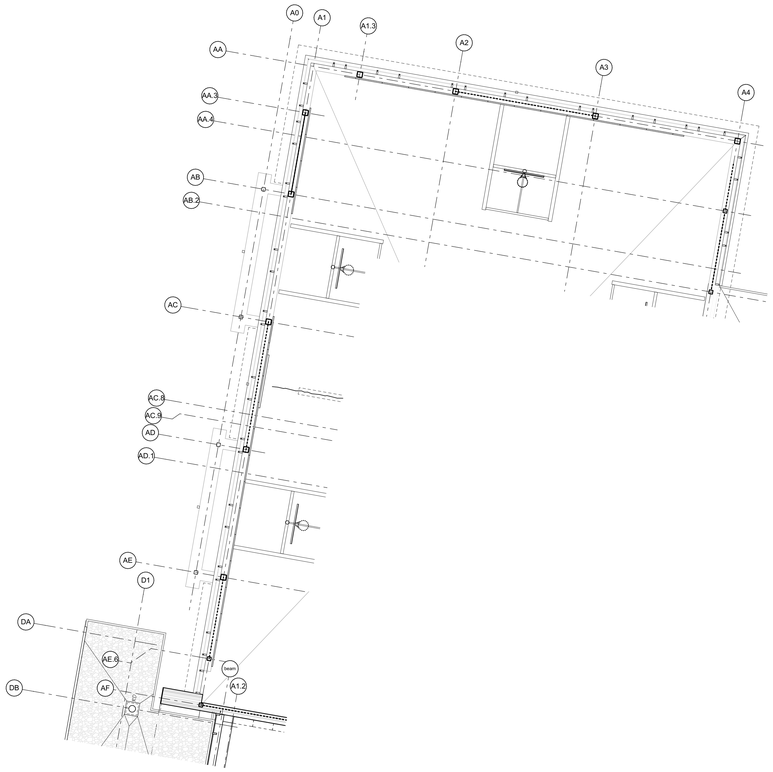
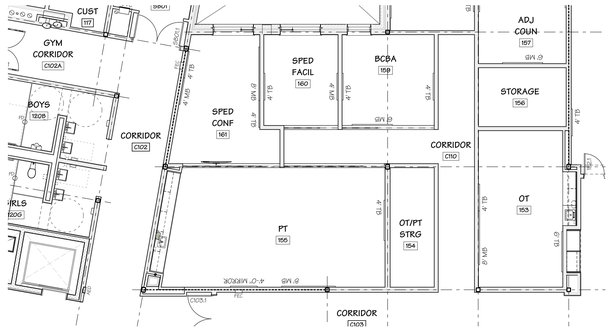
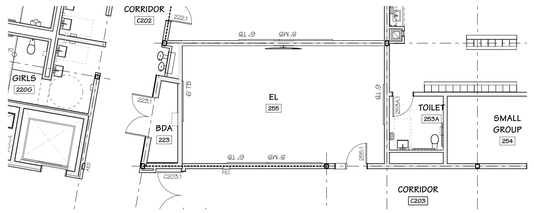


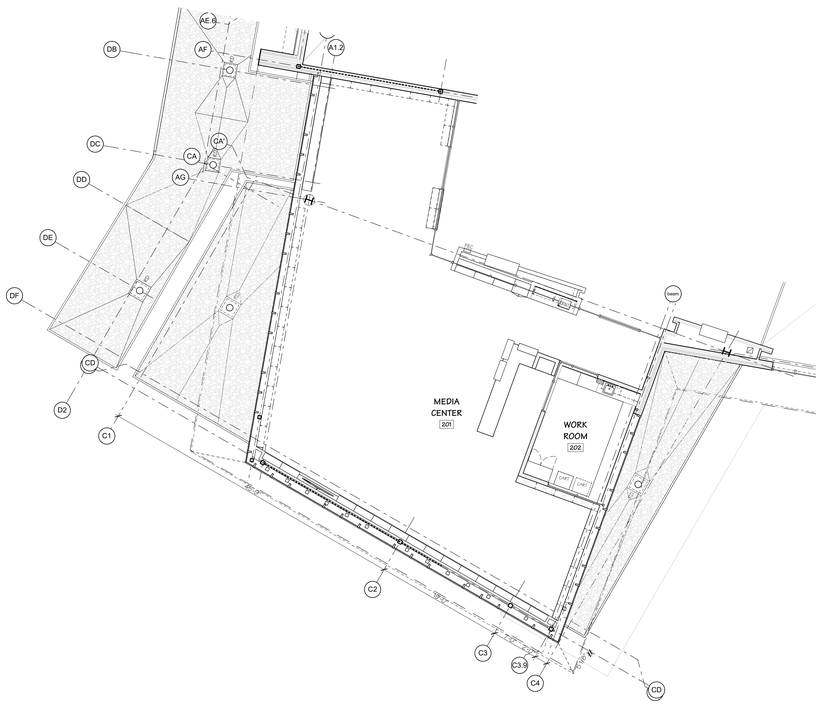
1 **Second Floor Clerestory Plan @ Gym**
SCALE: 1/8" = 1'-0"



3 **First Floor Clerestory Plan @ PT**
SCALE: 1/8" = 1'-0"



4 **Second Floor Clerestory Plan @ EL**
SCALE: 1/8" = 1'-0"



2 **Second Floor Clerestory Plan @ Library**
SCALE: 1/8" = 1'-0"

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NORTH ARROW — STAMP

Date: 15 MAY 2020

Drawn By: BS

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Partialr Clerestory Plan

3.4.04

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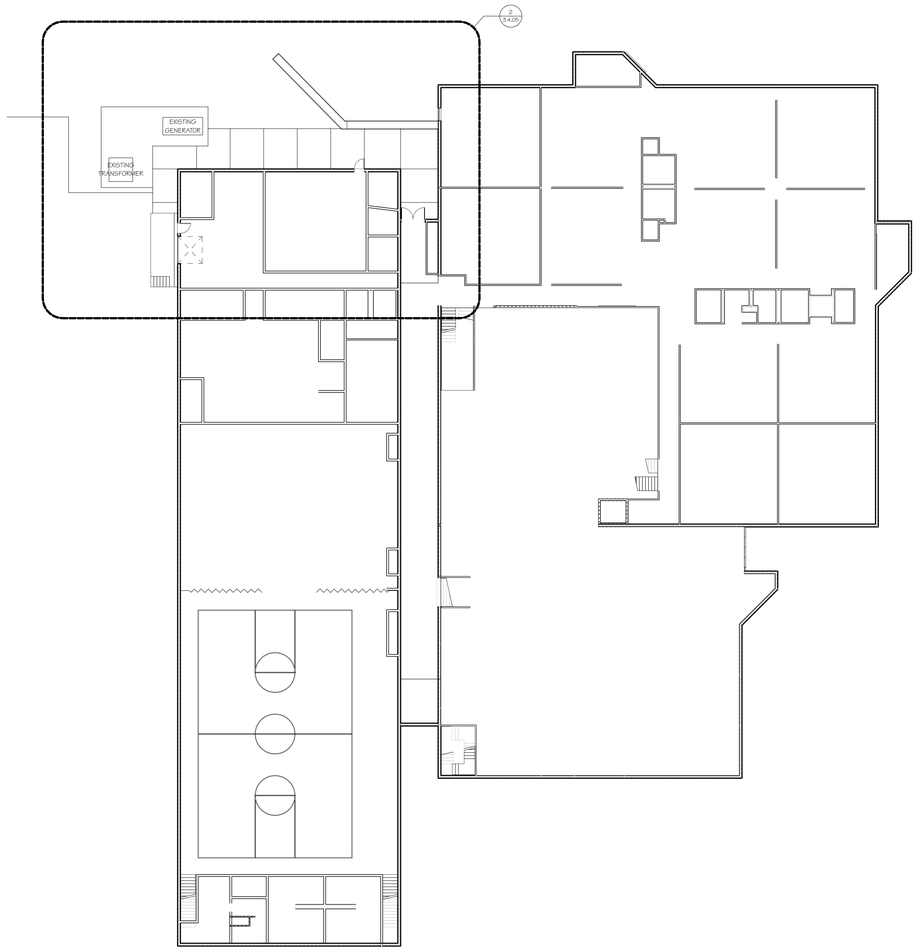
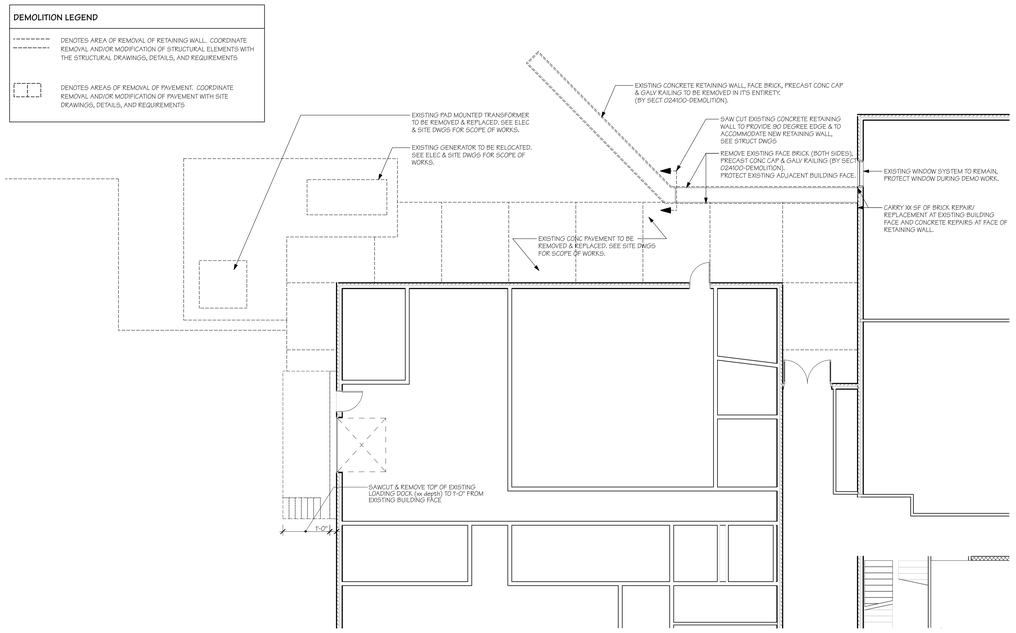
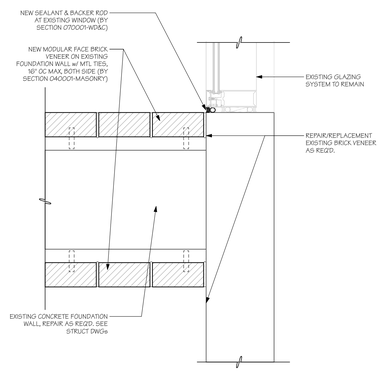


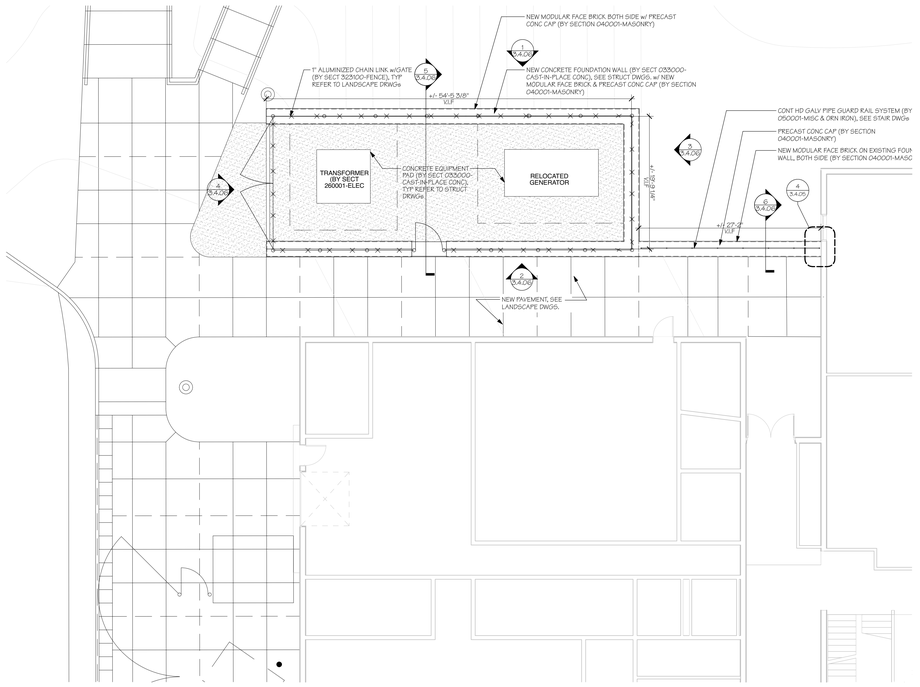
1 **Level 2 - Existing Plan**
SCALE: 1/16" = 1'-0"



2 **Level 2 - Demo Plan**
SCALE: 1/8" = 1'-0"



4 **Existing Curtainwall at Reatining Wall**
SCALE: 1 1/2" = 1'-0"



3 **Level 2 - New Work Plan**
SCALE: 1/8" = 1'-0"

NORTH ARROW — Called North

STAMP

Date: 15 MAY 2020

Drawn By: BS

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Cashman-Existing, Demo & New Work Plan

3.4.05

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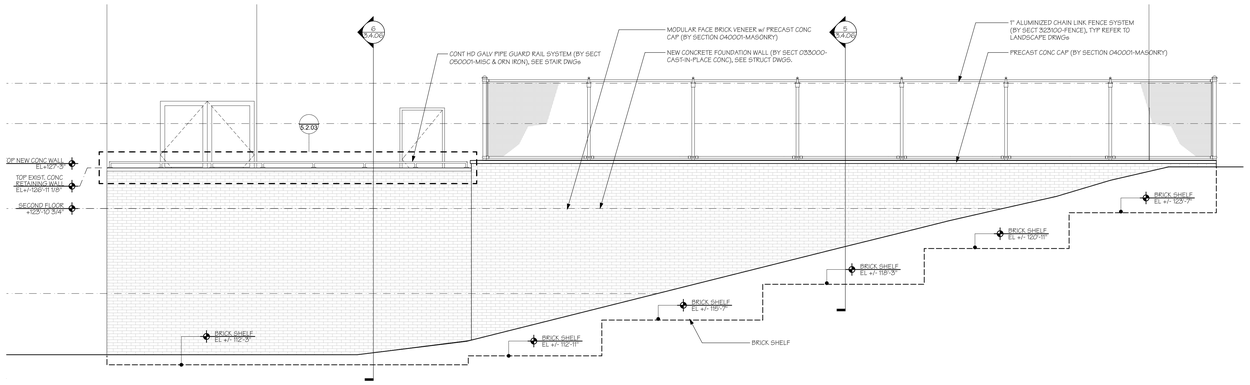
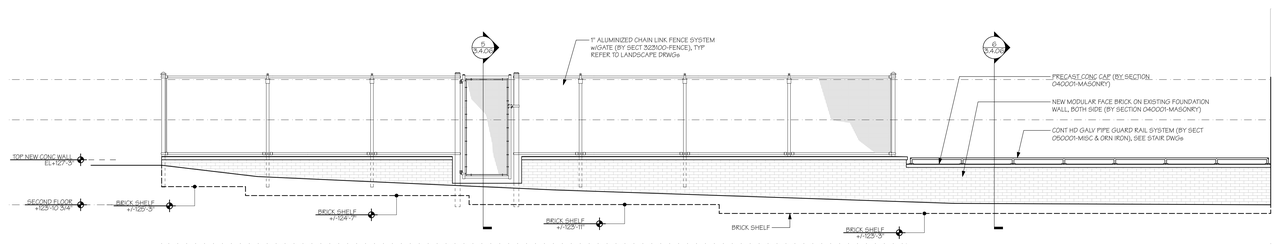
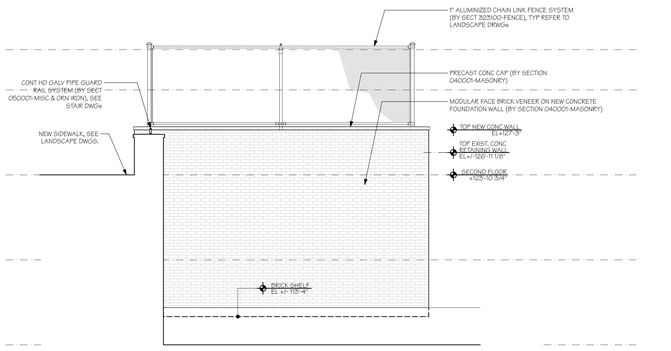


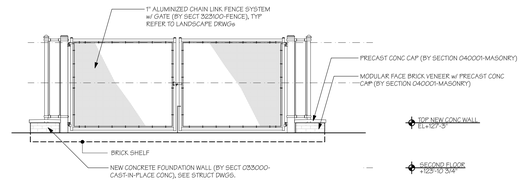
1 **Retaining Wall Elevation - North**
SCALE: 1/4" = 1'-0"



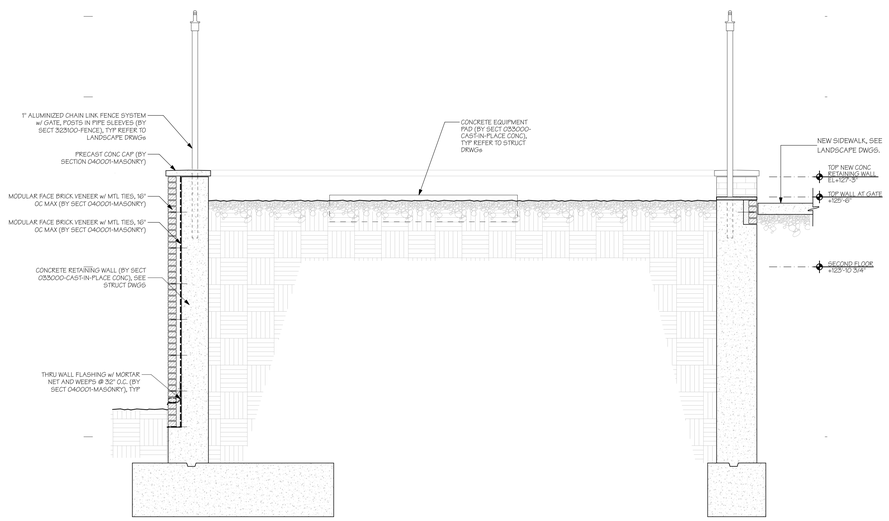
2 **Retaining Wall Elevation - South**
SCALE: 1/4" = 1'-0"



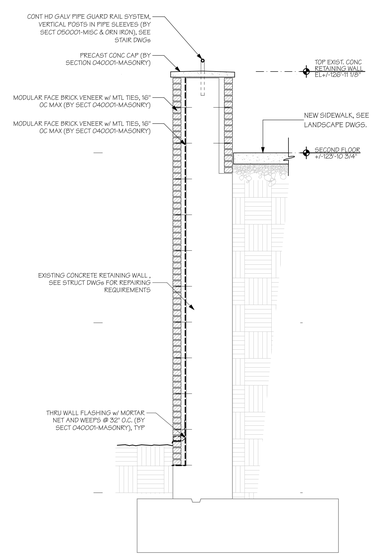
3 **Retaining Wall Elevation - East**
SCALE: 1/4" = 1'-0"



4 **Retaining Wall Elevation - West**
SCALE: 1/4" = 1'-0"



5 **Section at New Retaining Wall**
SCALE: 1/2" = 1'-0"



6 **Section at Existing Retaining Wall**
SCALE: 1/2" = 1'-0"

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NORTH ARROW — Called North

STAMP

Date: 15 MAY 2020

Drawn By: BS

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Cashman-New Retaining Wall Elevations & Sections

3.4.06

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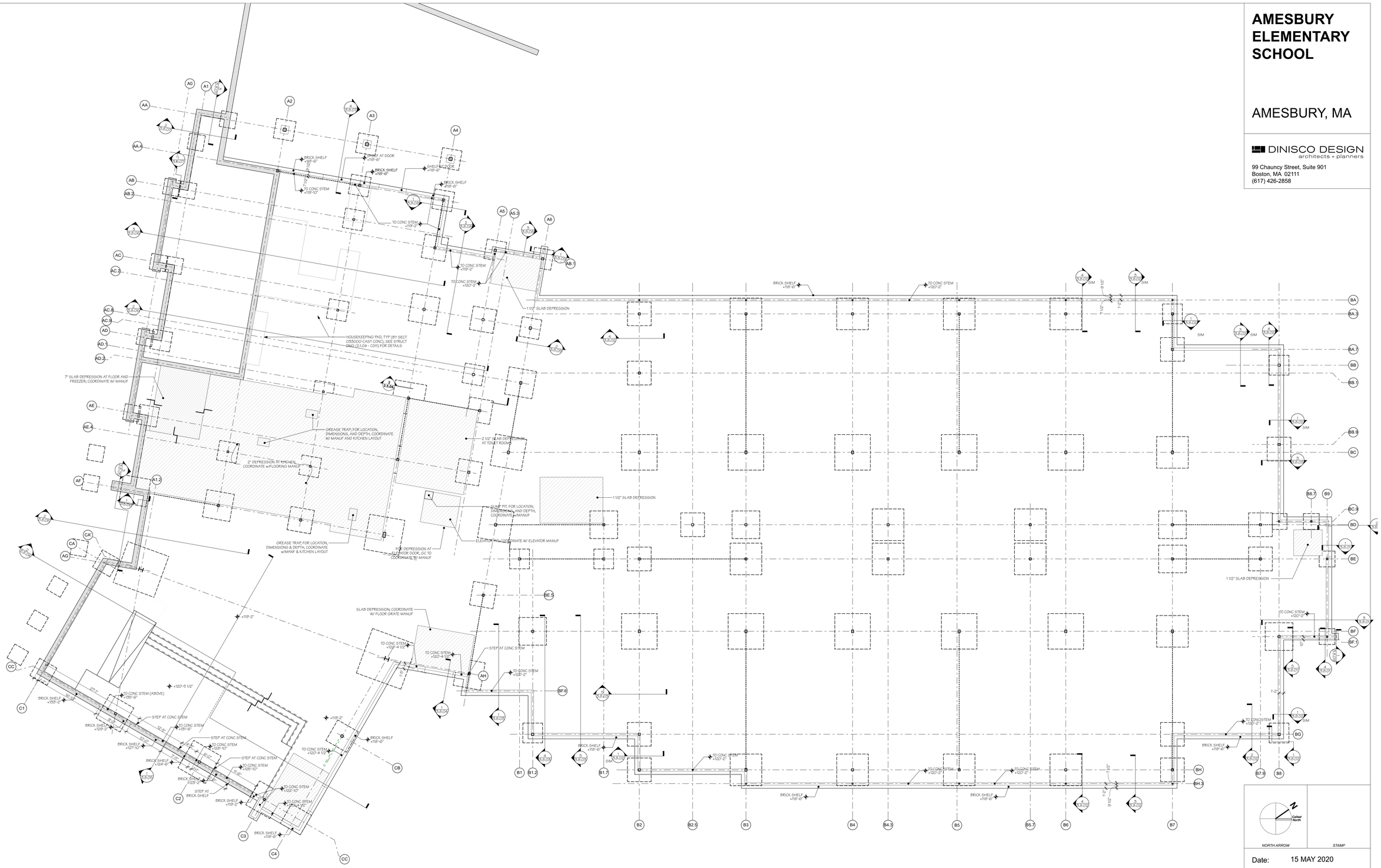

NORTH ARROW
Called North
STAMP

Date: 15 MAY 2020

Drawn By: BS

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Ground Floor - Edge of Slab Plan

3.4.07

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BRICK SHELF +153'-2"
TO CONC STEM +150'-6"
SLAB DEPRESSION FOR WOOD FLOORING SYSTEM (2 1/2")
+154'-3 1/2" (+154'-0" FIN FLR EL)
CORE FOR VOLLEYBALL SLEEVE (ANCHOR SYSTEM)
CORE DRILL AS REQ'D /REF TO MEP & FP's DRAWINGS & SPECS
3/4" SLAB DEPRESSION AT TOILET ROOMS
3/4" SLAB DEPRESSION
APPROACH SLAB, SEE STRUCT DWGS
+154'-6"
ELEVATOR SHAFT OPENING TO BELOW
FACE OF CMU WALL
FOR EOS & DEPRESSION AT ELEVATOR DOOR, CM TO COORDINATE W/ MANUF
STEP AT BRICK SHELF
STEP AT CONC STEM
LINE OF SLAB EDGE
LINE OF ROOF EDGE

NORTH ARROW (Called North) | STAMP

Date: 15 MAY 2020

Drawn By: BS

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

First Floor - Edge of Slab/Deck Plan

3.4.08

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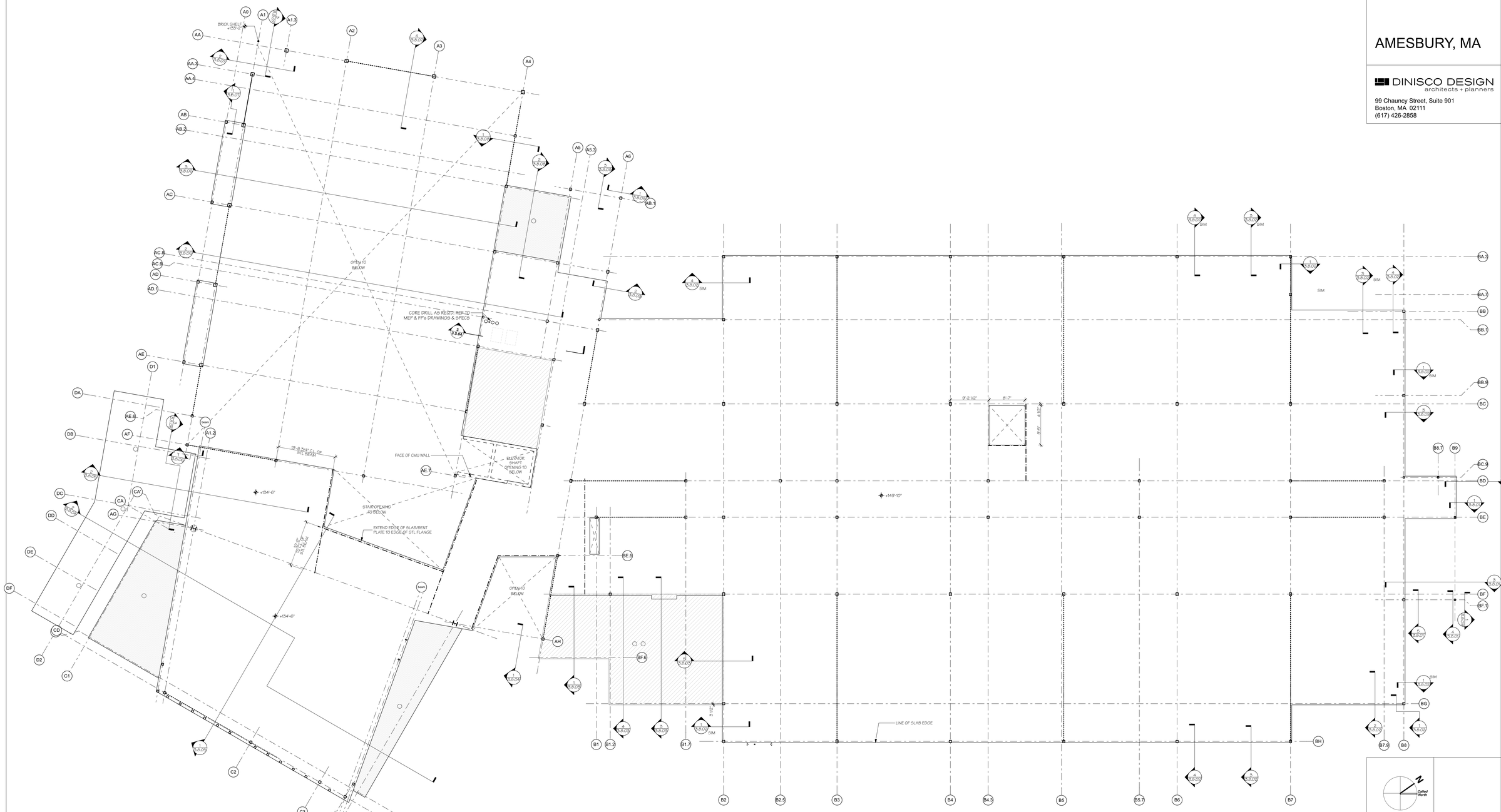

NORTH ARROW: Called North

STAMP

Date: 15 MAY 2020

Drawn By: BS

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Second Floor - Edge of Deck Plan

3.4.09

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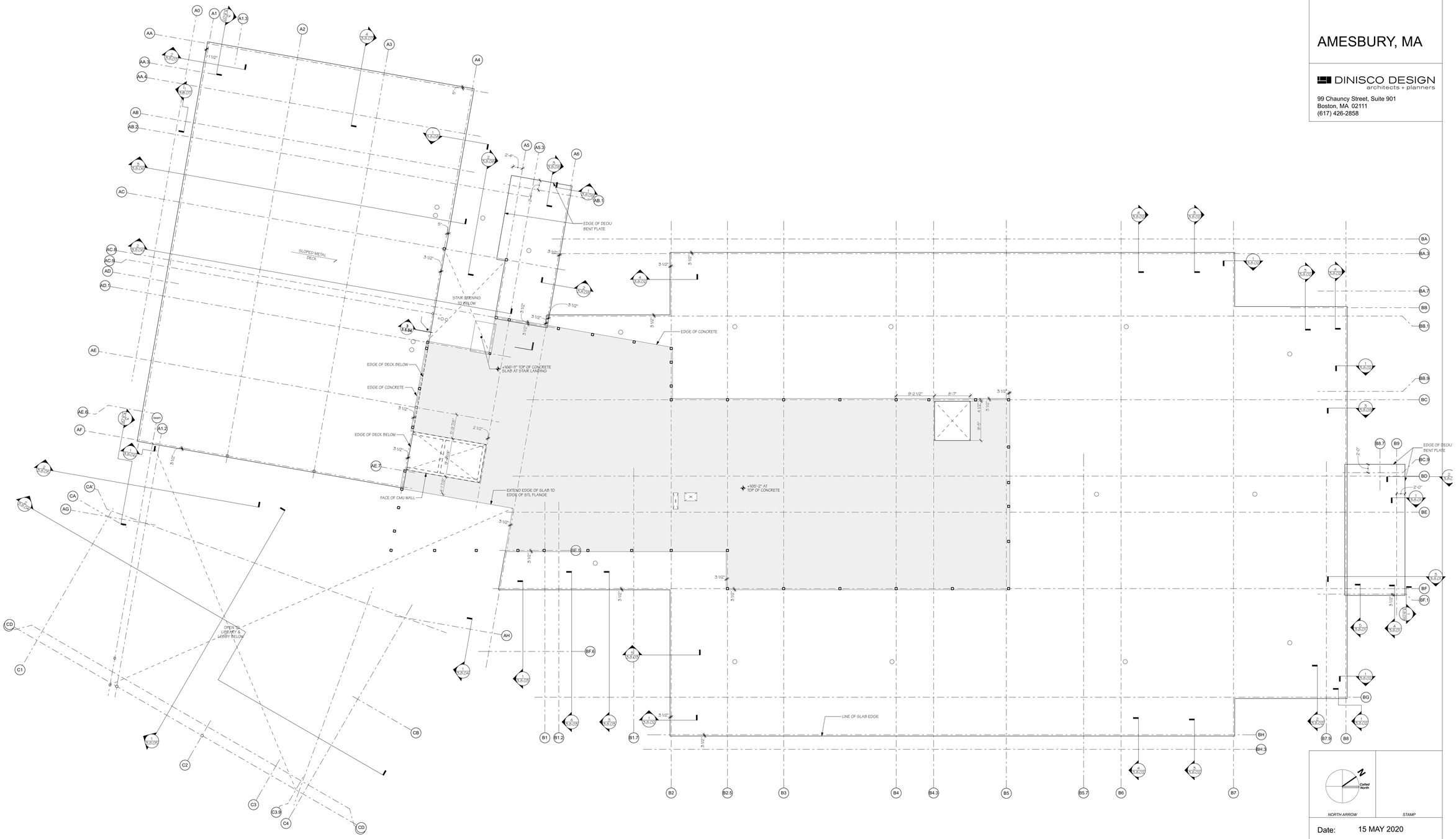

NORTH ARROW — STAMP

Date: 15 MAY 2020

Drawn By: BS

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Roof Plan - Edge of Deck

3.4.10

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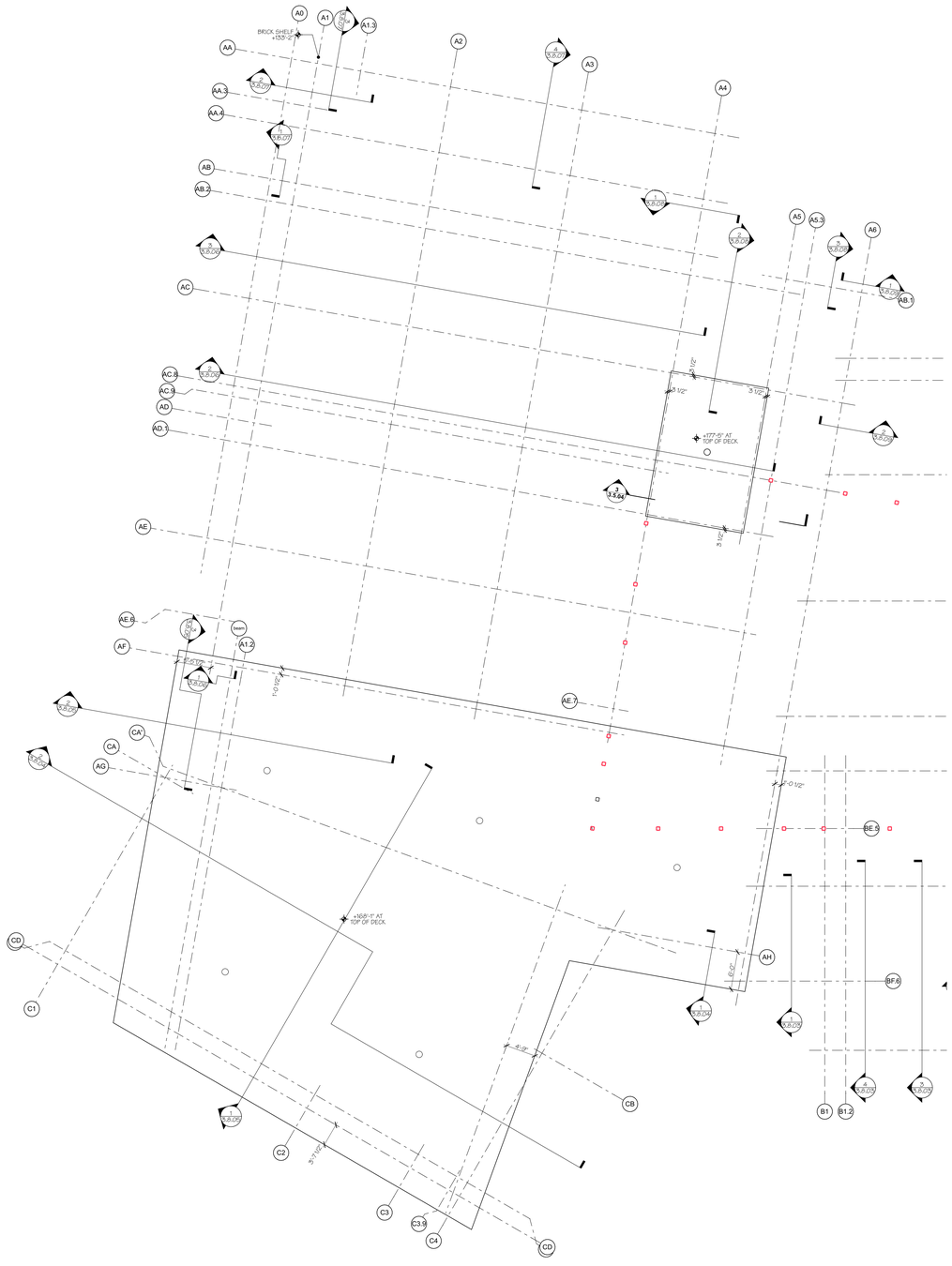

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NORTH ARROW — Called North

STAMP

Date: 15 MAY 2020

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Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Upper Roof Plan - Edge of Deck

3.4.11

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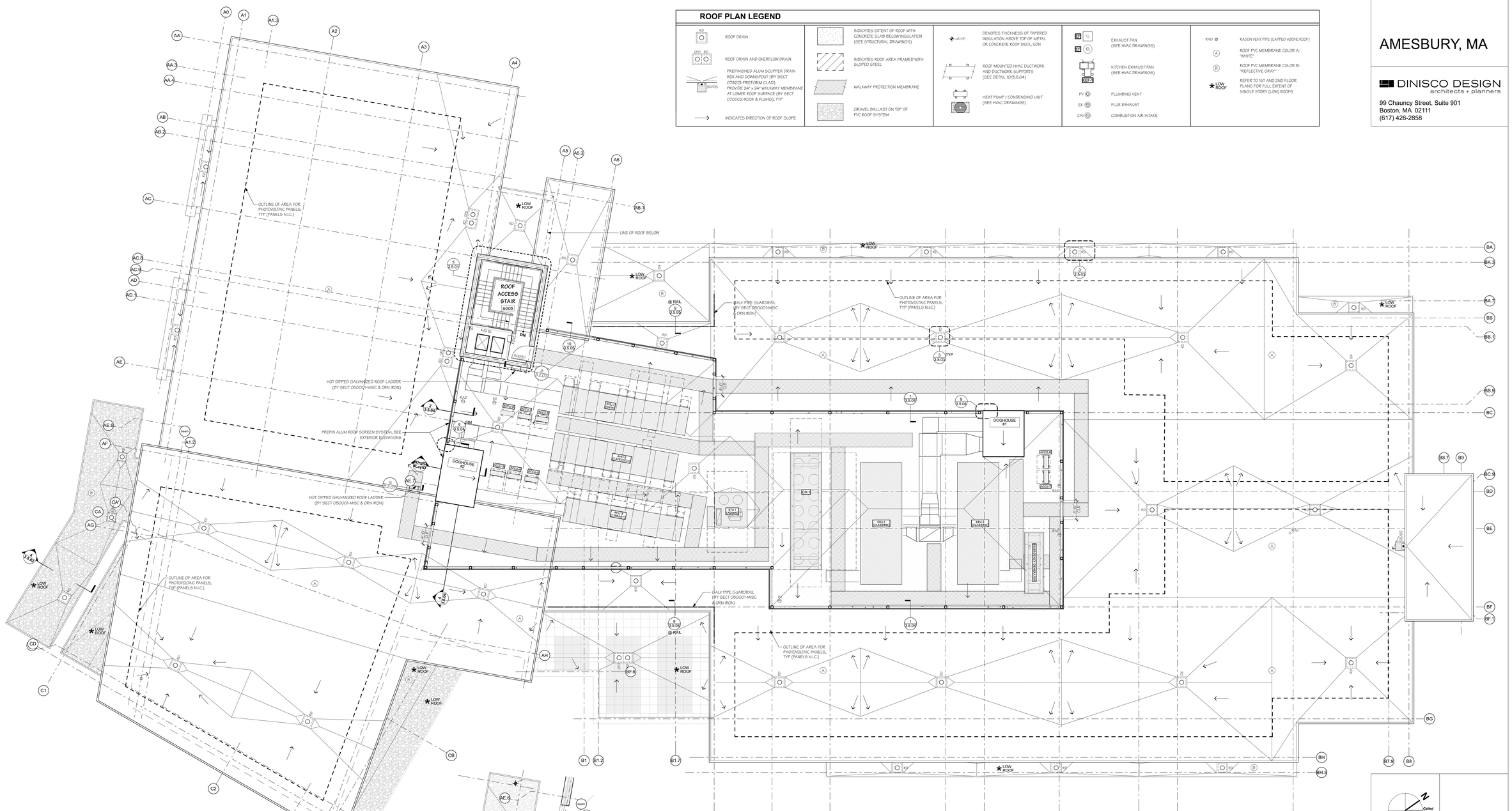
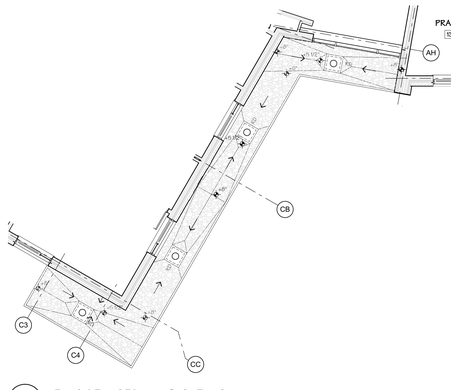
ROOF PLAN LEGEND

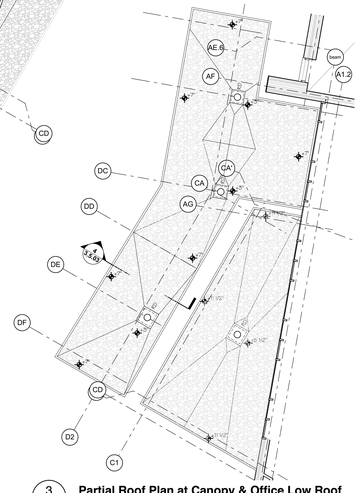
- RD — ROOF DRAIN
- OFD RD — ROOF DRAIN AND OVERFLOW DRAIN
- 50/D5 — PREFINISHED ALUM SCUPPER DRAIN BOX AND DOWNSPOUT (BY SECT 074213-PREFORM CLAD) PROVIDE 24" x 24" WALKWAY MEMBRANE AT LOWER ROOF SURFACE (BY SECT 070002-ROOF & FLSHG), TYP
- INDICATES DIRECTION OF ROOF SLOPE
- INDICATES EXTENT OF ROOF WITH CONCRETE SLAB BELOW INSULATION (SEE STRUCTURAL DRAWINGS)
- INDICATES ROOF AREA FRAMED WITH SLOPED STEEL
- WALKWAY PROTECTION MEMBRANE
- GRAVEL BALLAST ON TOP OF PVC ROOF SYSTEM
- +6 1/2" — DENOTES THICKNESS OF TAPERED INSULATION ABOVE TOP OF METAL OR CONCRETE ROOF DECK, ION
- ROOF MOUNTED HVAC DUCTWORK AND DUCTWORK SUPPORTS (SEE DETAIL 10/3.5.04)
- HEAT PUMP / CONDENSING UNIT (SEE HVAC DRAWINGS)
- EF-1 — EXHAUST FAN (SEE HVAC DRAWINGS)
- KEF-1 — KITCHEN EXHAUST FAN (SEE HVAC DRAWINGS)
- PV — PLUMBING VENT
- EX — FLUE EXHAUST
- CAI — COMBUSTION AIR INTAKE
- RAD — RADON VENT PIPE (CAPPED ABOVE ROOF)
- A — ROOF PVC MEMBRANE COLOR A: "WHITE"
- B — ROOF PVC MEMBRANE COLOR B: "REFLECTIVE GRAY"
- LOW ROOF — REFER TO 1ST AND 2ND FLOOR PLANS FOR FULL EXTENT OF SINGLE STORY (LOW) ROOFS



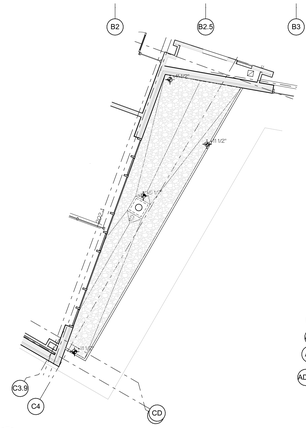
2 **Partial Roof Plan at Cafe Roof**
SCALE: 1/8" = 1'-0"



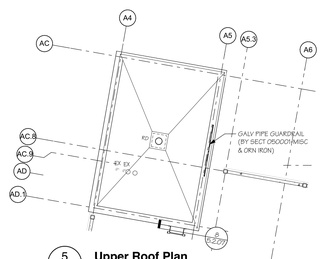
3 **Partial Roof Plan at Canopy & Office Low Roof**
SCALE: 1/8" = 1'-0"



4 **Partial Roof Plan at Admin**
SCALE: 1/8" = 1'-0"



5 **Upper Roof Plan**
SCALE: 1/8" = 1'-0"



NORTH ARROW — Called North

STAMP

Date: 15 MAY 2020

Drawn By: BS

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Roof Plan

3.5.01

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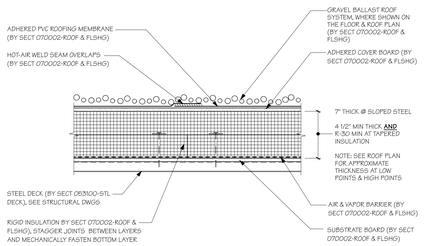
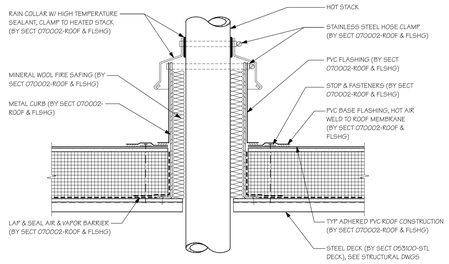
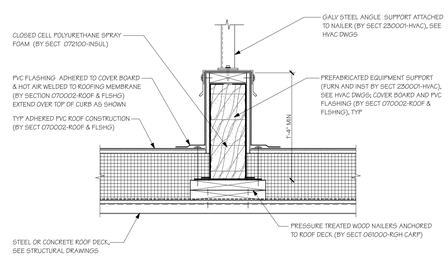


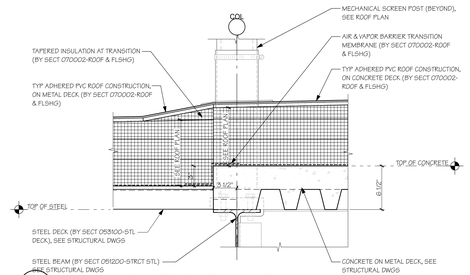
1 TYP **PVC Roof System at Steel Deck**
SCALE: 1 1/2"= 1'-0"



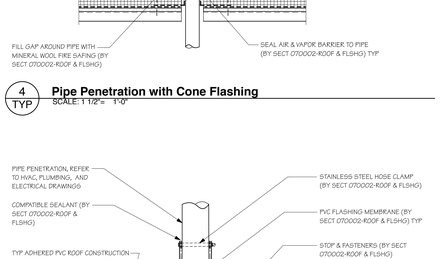
6 TYP **Hot Stack Penetration**
SCALE: 1 1/2"= 1'-0"



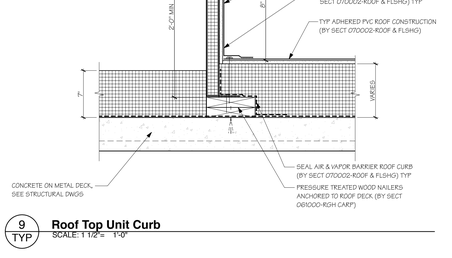
11 TYP **Roof Mounted Ductwork Support**
SCALE: 1 1/2"= 1'-0"



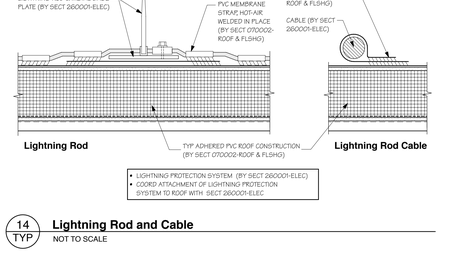
16 **Roof Transition - Steel to Concrete Deck**
SCALE: 1 1/2"= 1'-0"



2 TYP **PVC Roof System at Concrete Deck**
SCALE: 1 1/2"= 1'-0"

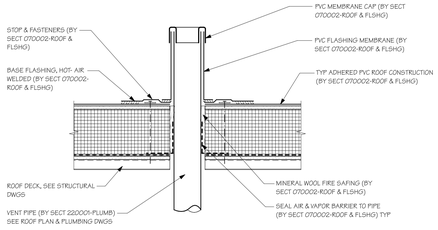


7 TYP **Pitch Pocket Detail**
SCALE: 1 1/2"= 1'-0"

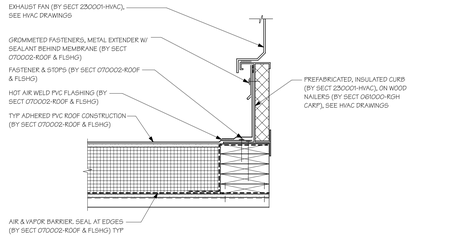


12 TYP **Condensing Unit Support Rails**
SCALE: 1 1/2"= 1'-0"

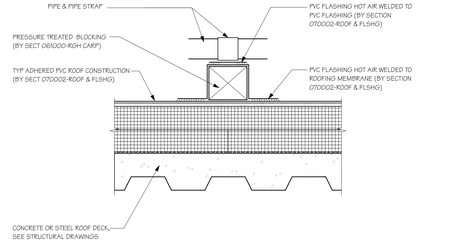
17 TYP **Overflow Downspout Nozzle**
SCALE: 1 1/2"= 1'-0"



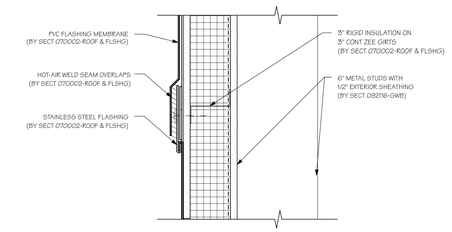
3 TYP **Vent Pipe Penetration**
SCALE: 1 1/2"= 1'-0"



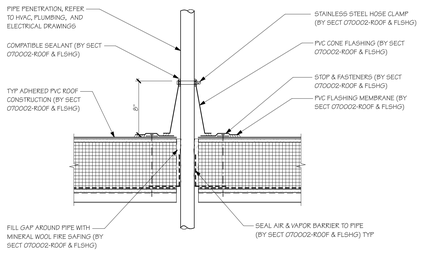
8 TYP **Exhaust Fan Curb**
SCALE: 1 1/2"= 1'-0"



13 TYP **Over-Roof Piping Sleeper**
SCALE: 1 1/2"= 1'-0"



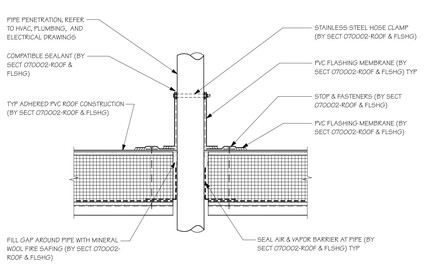
18 **Blind Nailer Ternination Detail**
SCALE: 3" = 1'-0"



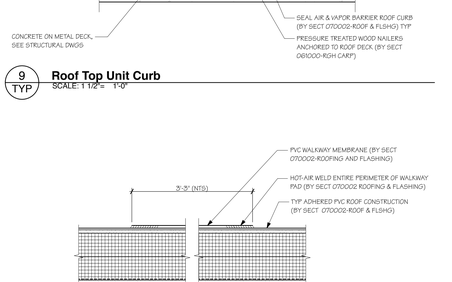
4 TYP **Pipe Penetration with Cone Flashing**
SCALE: 1 1/2"= 1'-0"

9 TYP **Roof Top Unit Curb**
SCALE: 1 1/2"= 1'-0"

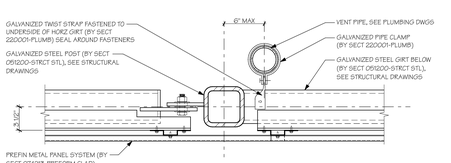
14 TYP **Lightning Rod and Cable**
NOT TO SCALE



5 TYP **Pipe Penetration**
SCALE: 1 1/2"= 1'-0"



10 TYP **Walkway Membrane**
SCALE: 1 1/2"= 1'-0"



15 TYP **Vent Pipe Support at Mechanical Screen**
SCALE: 1 1/2"= 1'-0"

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KEY PLAN

NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By:

Scale: AS NOTED

Revisions BS

Number	Date	Description

60% COST ESTIMATE SET

Roof Details

3.5.02

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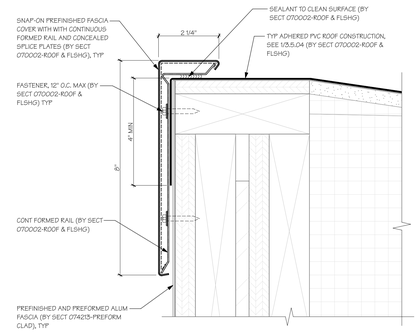
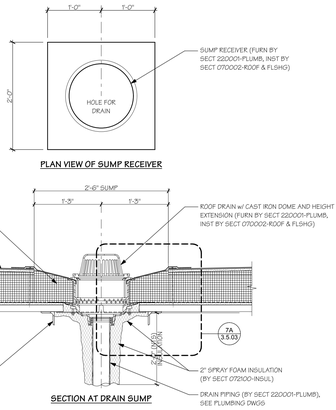
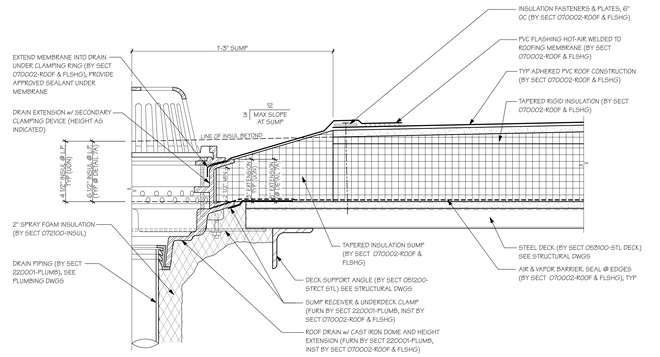


1 TYP **Roof Edge Detail**
SCALE: 6" = 1'-0"

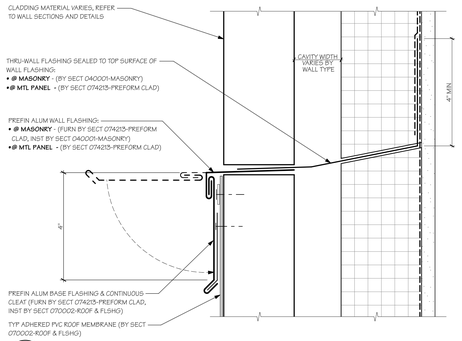


3 TYP **Roof Drain Sump Detail - Academic Wing Low Roofs**
SCALE: 1" = 1'-0"

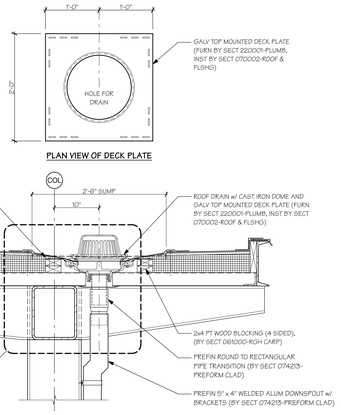


5 TYP **Roof Drain at Steel Deck**
SCALE: 3" = 1'-0"

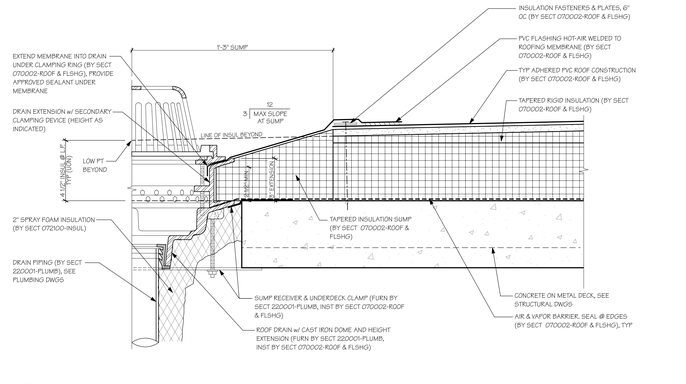
7A **Roof Drain at Academic Wing Low Roofs**
SCALE: 3" = 1'-0"



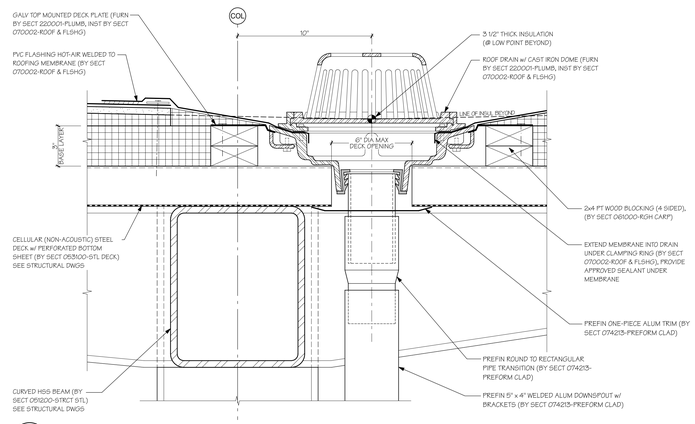
2 TYP **Base Flashing Detail**
SCALE: 6" = 1'-0"



4 **Roof Drain Sump Detail - Canopy**
SCALE: 1" = 1'-0"



6 TYP **Roof Drain at Concrete Deck**
SCALE: 3" = 1'-0"



7 **Roof Drain at Canopy**
SCALE: 3" = 1'-0"

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KEY PLAN

NORTH ARROW *STAMP*

Date: 15 MAY 2020

Drawn By:

Scale: AS NOTED

Revisions CAD

Number	Date	Description

60% COST ESTIMATE SET

Roof Details

3.5.03

CONFORMED: ## MONTH 2020

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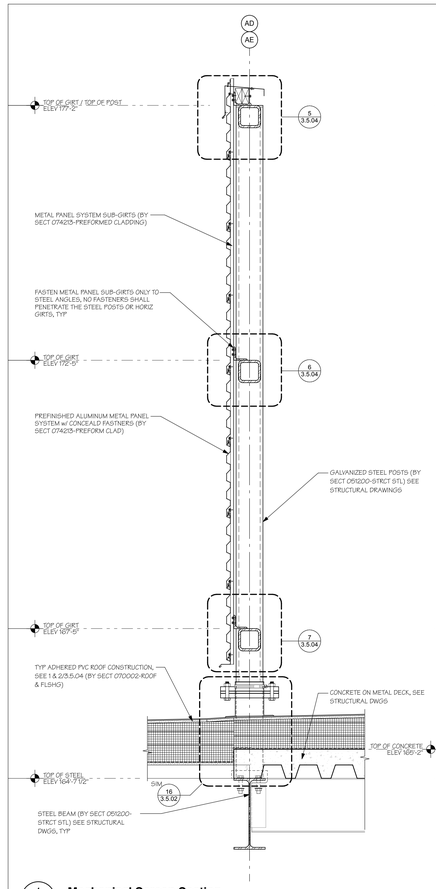
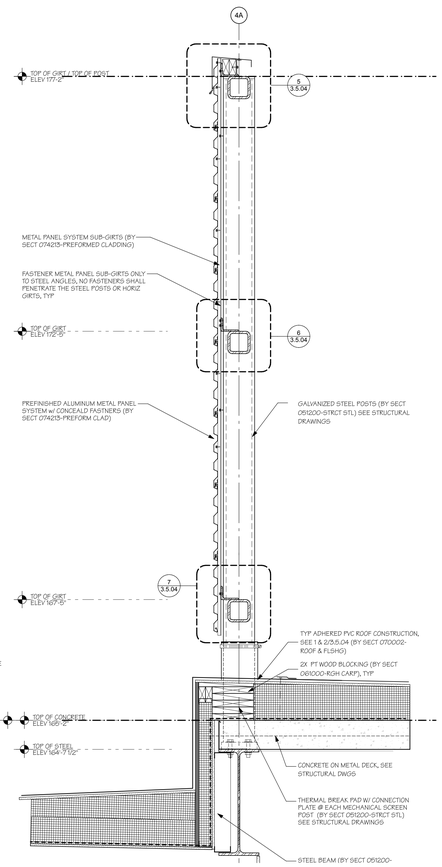
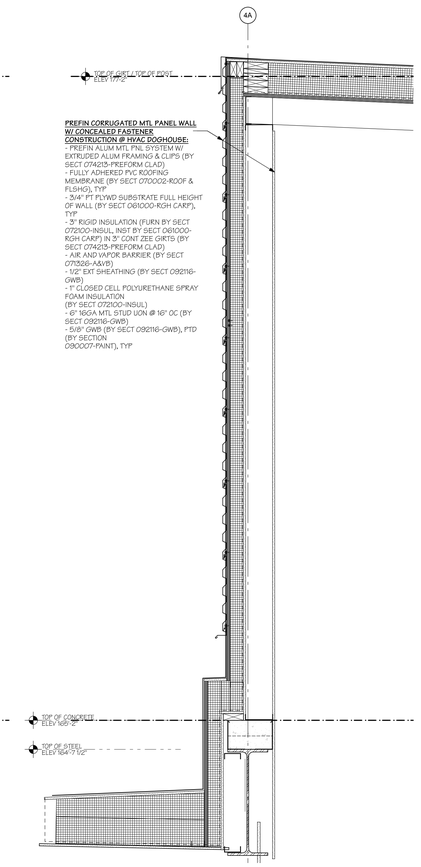


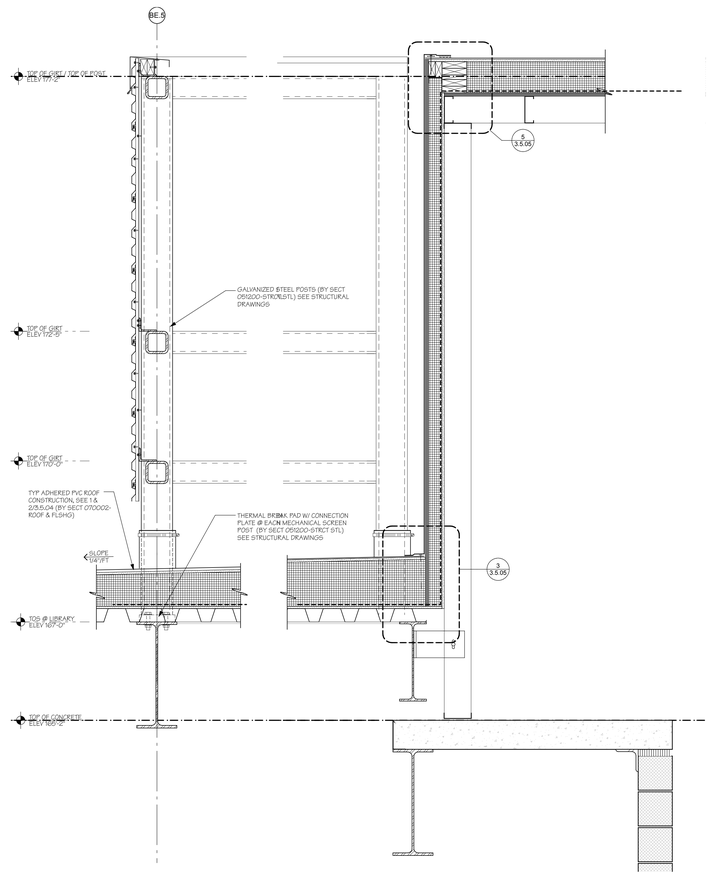
1 **Mechanical Screen Section**
SCALE: 1" = 1'-0"



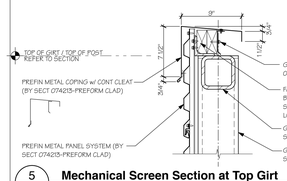
2 **Mechanical Screen Section - GYM at Grid A4**
SCALE: 1" = 1'-0"



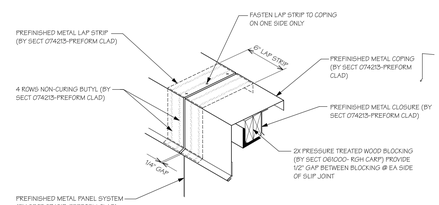
3 **Mechanical Screen Section - GYM at Grid A4 Doghouse**
SCALE: 1" = 1'-0"



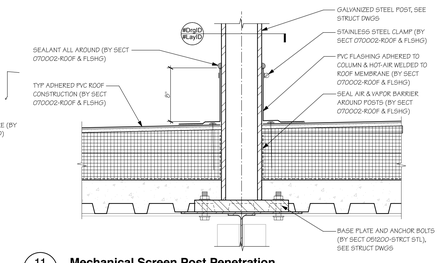
4 **Mechanical Screen Section - Main Lobby at Doghouse**
SCALE: 1" = 1'-0"



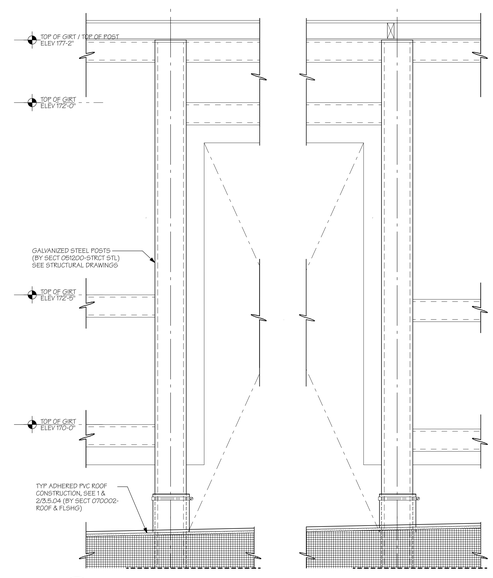
5 TYP **Mechanical Screen Section at Top Girt**
SCALE: 1 1/2"= 1'-0"



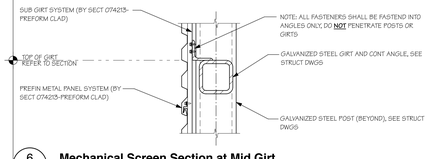
8 TYP **Mechanical Screen Parapet Slip Joint (Isometric)**
NOT TO SCALE



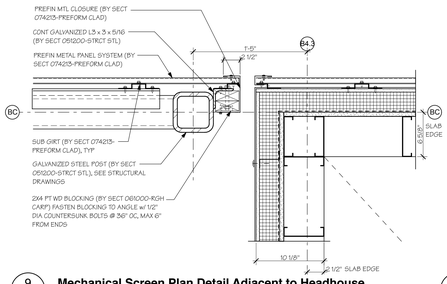
11 TYP **Mechanical Screen Post Penetration**
SCALE: 1 1/2"= 1'-0"



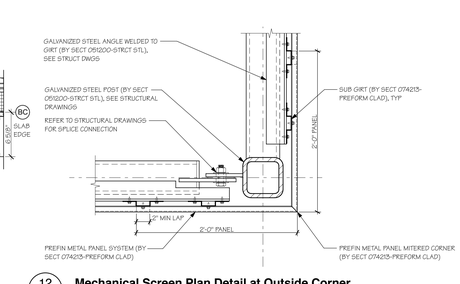
14 **Mechanical Screen elevation - Opening**
SCALE: 1" = 1'-0"



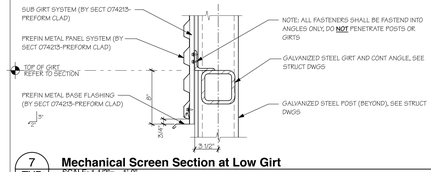
6 TYP **Mechanical Screen Section at Mid Girt**
SCALE: 1 1/2"= 1'-0"



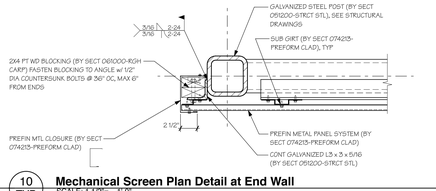
9 **Mechanical Screen Plan Detail Adjacent to Headhouse**
SCALE: 1 1/2"= 1'-0"



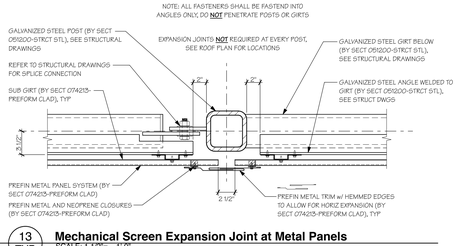
12 TYP **Mechanical Screen Plan Detail at Outside Corner**
SCALE: 1 1/2"= 1'-0"



7 TYP **Mechanical Screen Section at Low Girt**
SCALE: 1 1/2"= 1'-0"



10 TYP **Mechanical Screen Plan Detail at End Wall**
SCALE: 1 1/2"= 1'-0"



13 TYP **Mechanical Screen Expansion Joint at Metal Panels**
SCALE: 1 1/2"= 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: AS NOTED

Revisions BS

Number	Date	Description

60% COST ESTIMATE SET

Roof Details at Mechanical Screen

3.5.04

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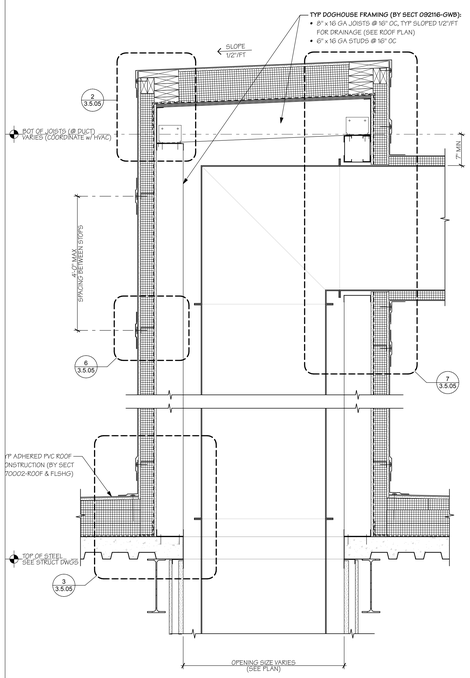
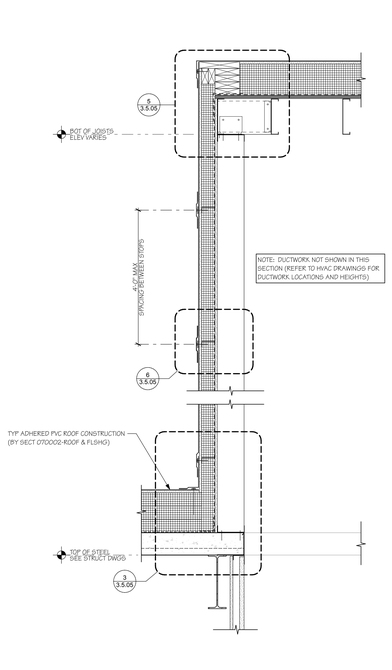
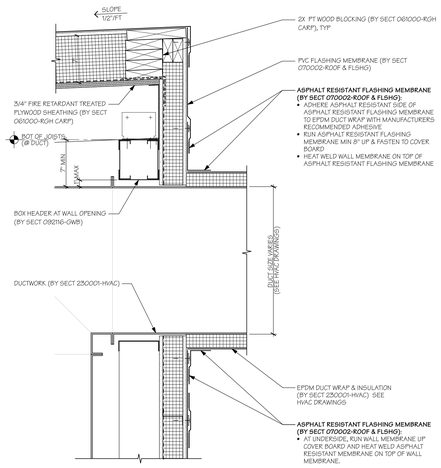


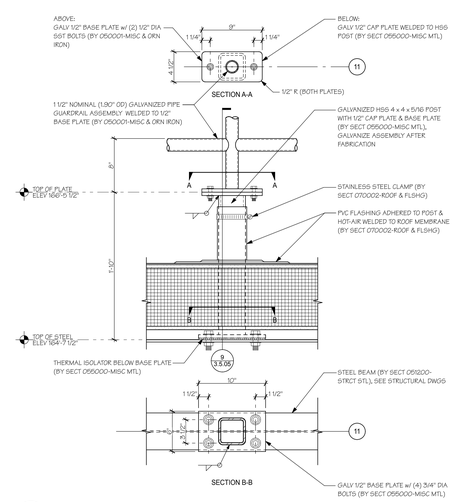
1 TYP **HVAC Doghouse Wall Section**
SCALE: 1" = 1'-0"



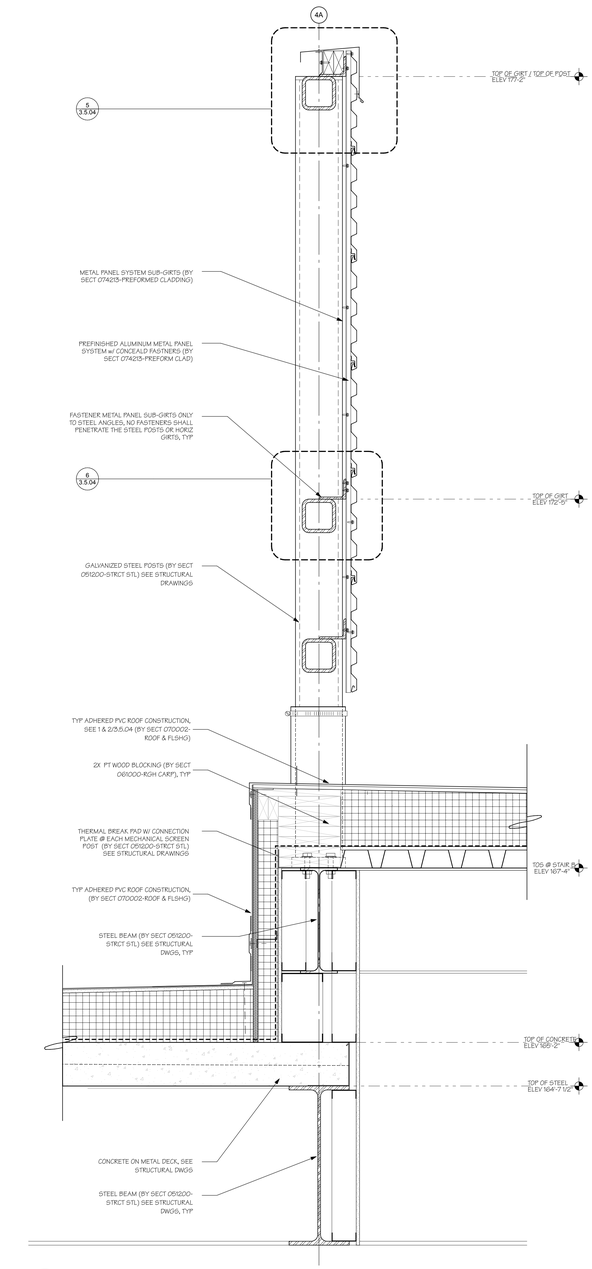
4 TYP **HVAC Doghouse Rake Wall Section**
SCALE: 1" = 1'-0"



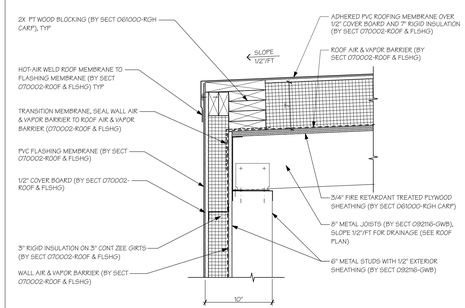
7 TYP **Doghouse Detail at Duct Penetration**
SCALE: 1 1/2"= 1'-0"



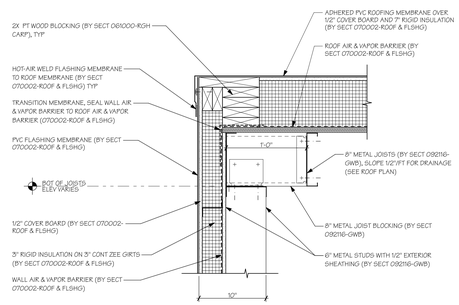
8 TYP **Roof Rail Details**
SCALE: 1 1/2"= 1'-0"



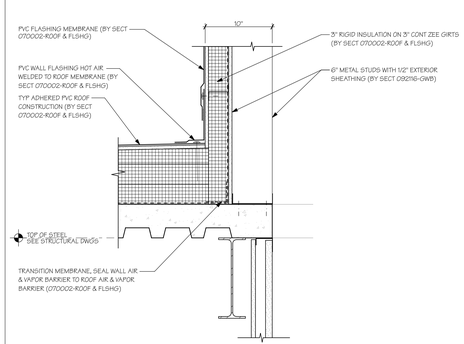
10 **Mechanical Screen Section Detail @ Stair B**
SCALE: 1 1/2"= 1'-0"



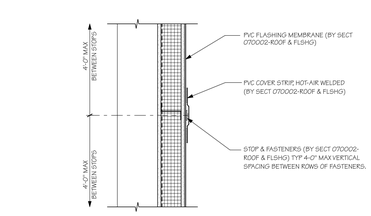
2 TYP **Doghouse Eave Detail**
SCALE: 1 1/2"= 1'-0"



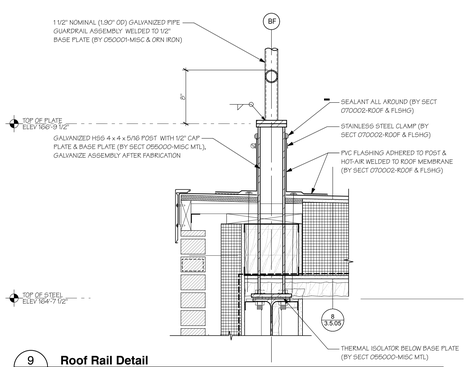
5 TYP **Doghouse Rake Detail**
SCALE: 1 1/2"= 1'-0"



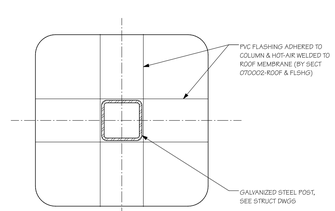
3 TYP **Doghouse Wall to Roof Detail**
SCALE: 1 1/2"= 1'-0"



6 TYP **Doghouse Horizontal Stop & Cover Strip**
SCALE: 1 1/2"= 1'-0"



9 TYP **Roof Rail Detail**
SCALE: 1 1/2"= 1'-0"



11 TYP **Flashing at Mechanical Screen Post Penetration**
NOT TO SCALE

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: AS NOTED

Revisions BS

Number	Date	Description

60% COST ESTIMATE SET

Roof Details

3.5.05

CONFORMED: ## MONTH 2020

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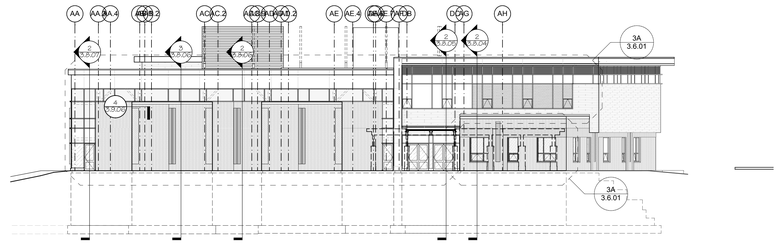
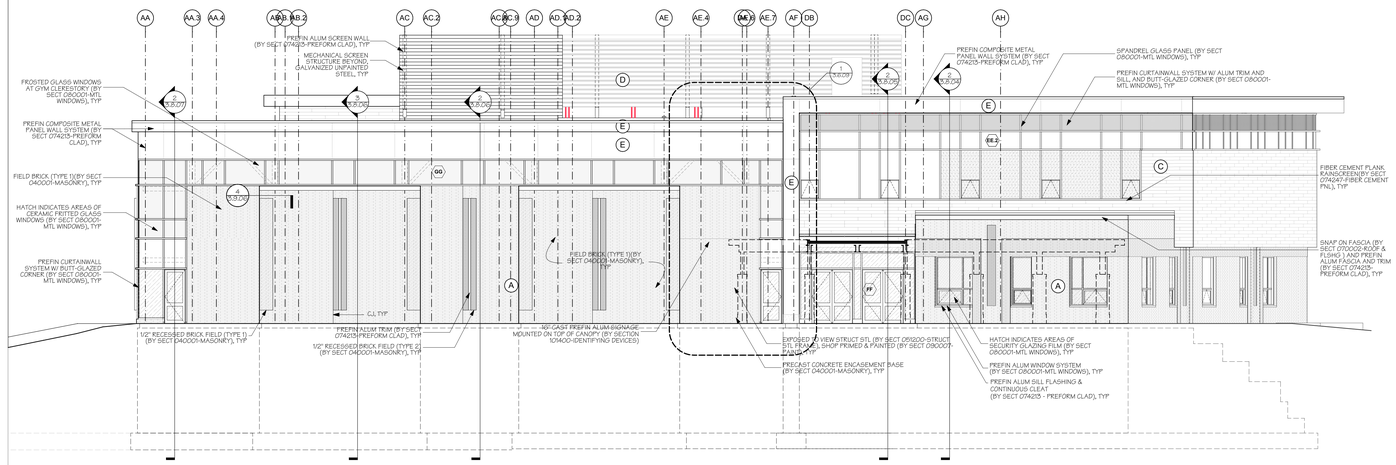
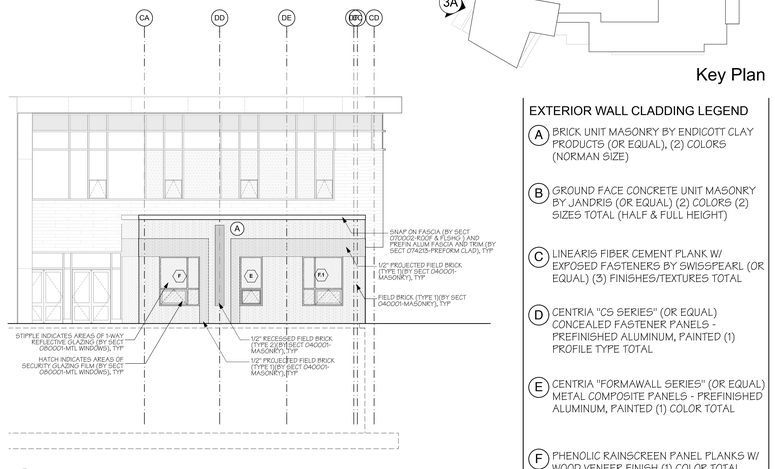
1 3.6.01 **Overall West Elevation**
SCALE: 1/16" = 1'-0"



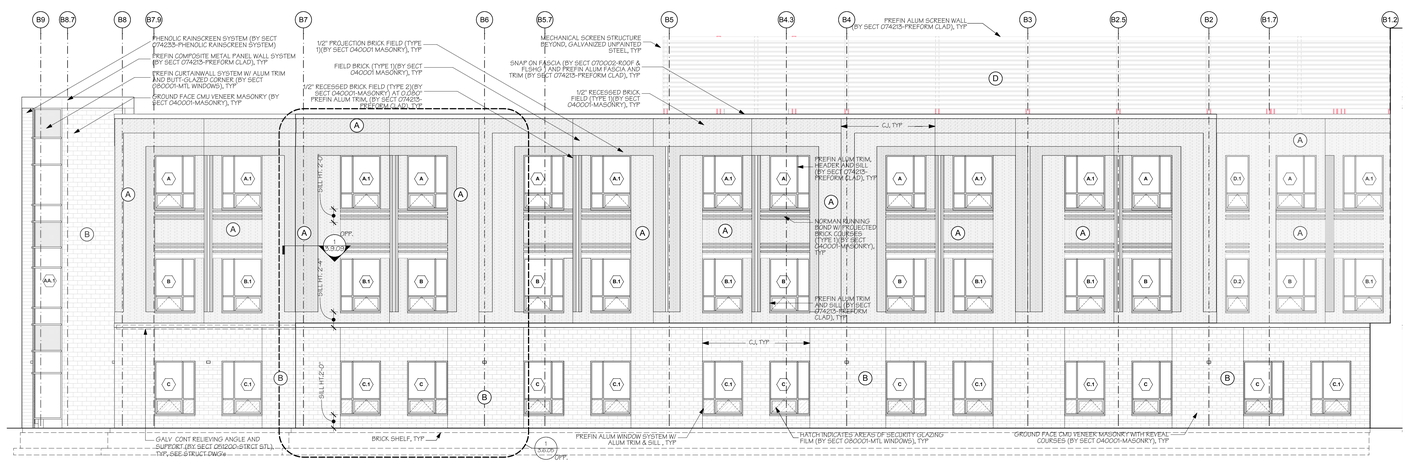
2 3.6.01 **Overall South Elevation**
SCALE: 1/16" = 1'-0"



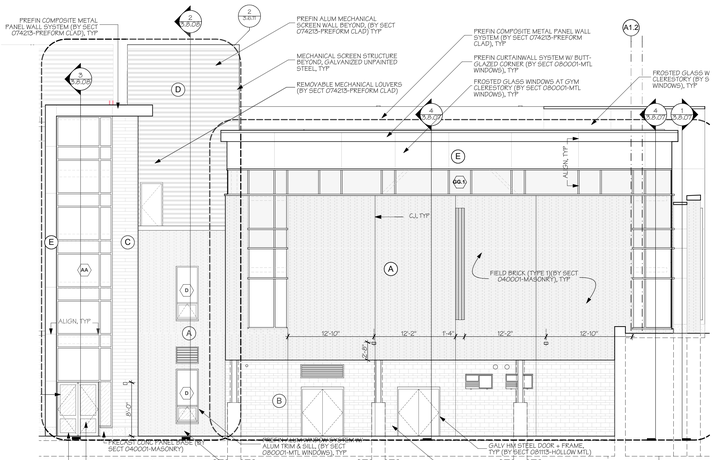
3 3.6.01 **South Elevation**
SCALE: 1/8" = 1'-0"



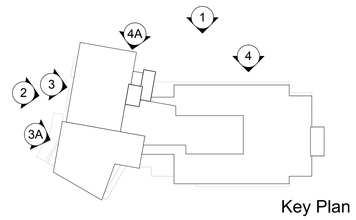
3A 3.6.01 **South Admin Elevation**
SCALE: 1/8" = 1'-0"



4 3.6.01 **West Classroom Elevation**
SCALE: 1/8" = 1'-0"



4A 3.6.01 **West Gym Elevation**
SCALE: 1/8" = 1'-0"



Key Plan

EXTERIOR WALL CLADDING LEGEND

- (A) BRICK UNIT MASONRY BY ENDICOTT CLAY PRODUCTS (OR EQUAL), (2) COLORS (NORMAN SIZE)
- (B) GROUND FACE CONCRETE UNIT MASONRY BY JANDRIS (OR EQUAL) (2) COLORS (2) SIZES TOTAL (HALF & FULL HEIGHT)
- (C) LINEARIS FIBER CEMENT PLANK W/ EXPOSED FASTENERS BY SWISSPEARL (OR EQUAL) (3) FINISHES/TEXTURES TOTAL
- (D) CENTRIA "CS SERIES" (OR EQUAL) CONCEALED FASTENER PANELS - PREFINISHED ALUMINUM, PAINTED (1) PROFILE TYPE TOTAL
- (E) CENTRIA "FORMAWALL SERIES" (OR EQUAL) METAL COMPOSITE PANELS - PREFINISHED ALUMINUM, PAINTED (1) COLOR TOTAL
- (F) PHENOLIC RAINSCREEN PANEL PLANKS W/ WOOD VENEER FINISH (1) COLOR TOTAL

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KEY PLAN

NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By: CF/JC

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Exterior Elevations

3.6.01

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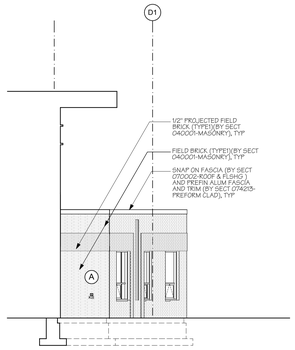
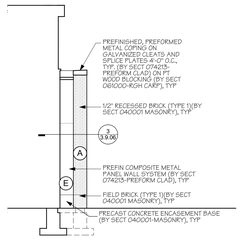


1 **West Admin/Library Elevation**
SCALE: 1/8" = 1'-0"



2 **West Gym Bump-Out Elevation**
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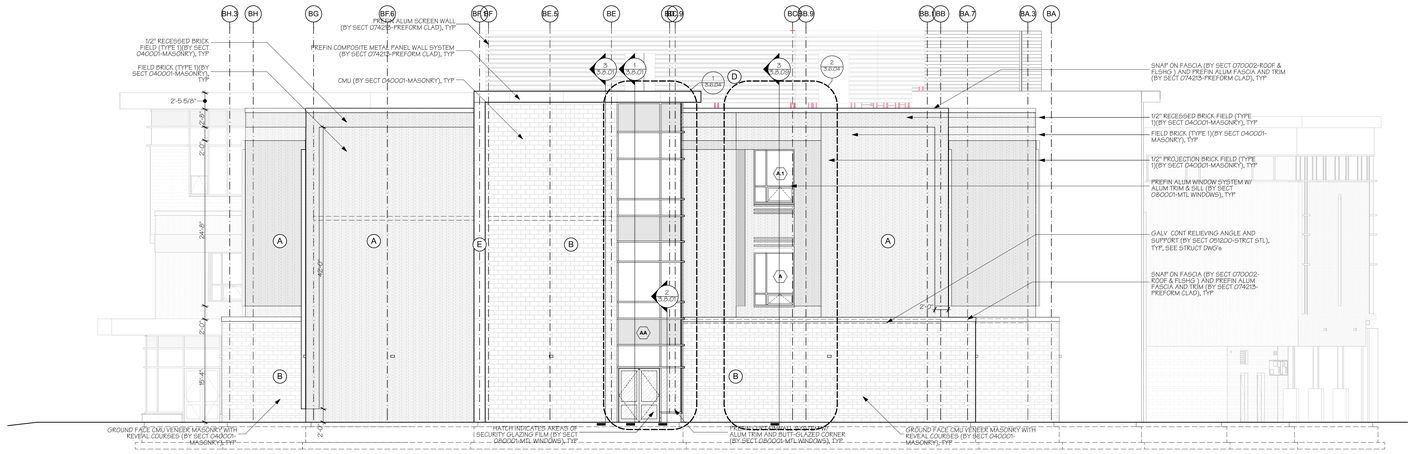
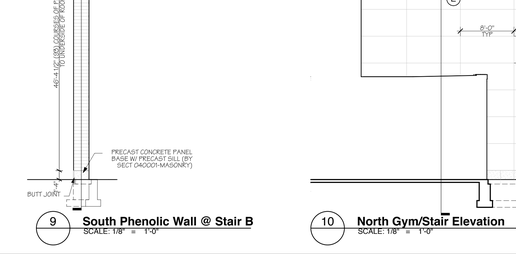
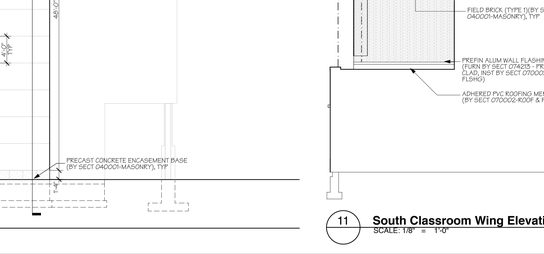


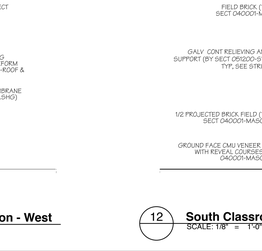
3 **North Elevation**
SCALE: 1/8" = 1'-0"



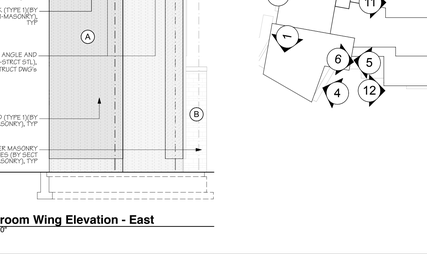
4 **North East Elevation at Cafeteria/Library**
SCALE: 1/8" = 1'-0"



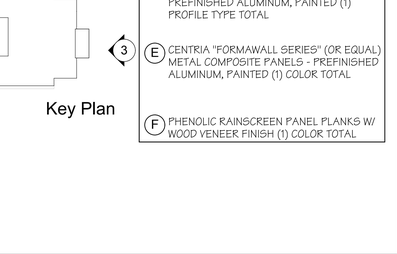
5 **North Elevation at Green Roof**
SCALE: 1/8" = 1'-0"



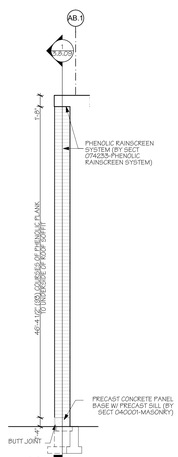
6 **South Phenolic Wall @ Lobby**
SCALE: 1/8" = 1'-0"



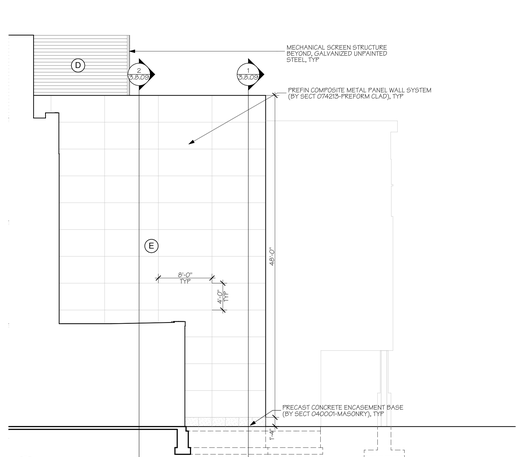
7 **North Gym Elevation**
SCALE: 1/8" = 1'-0"



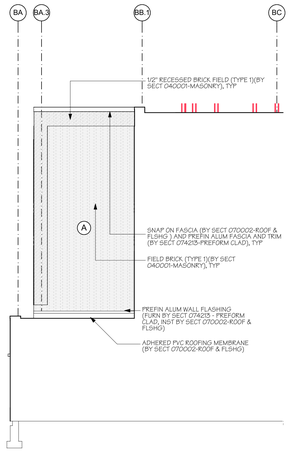
8 **South Stair B Elevation**
SCALE: 1/8" = 1'-0"



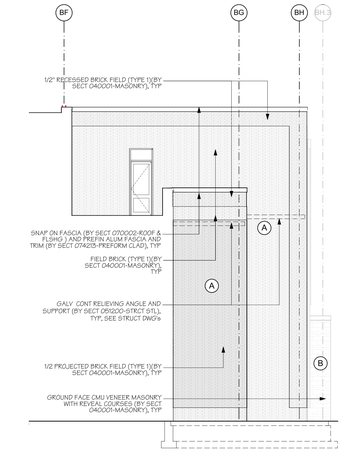
9 **South Phenolic Wall @ Stair B**
SCALE: 1/8" = 1'-0"



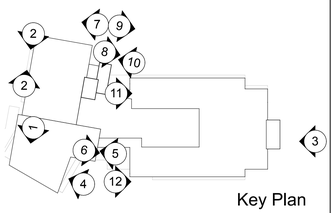
10 **North Gym/Stair Elevation**
SCALE: 1/8" = 1'-0"



11 **South Classroom Wing Elevation - West**
SCALE: 1/8" = 1'-0"



12 **South Classroom Wing Elevation - East**
SCALE: 1/8" = 1'-0"



Key Plan

EXTERIOR WALL CLADDING LEGEND

- (A) BRICK UNIT MASONRY BY ENDICOTT CLAY PRODUCTS (OR EQUAL), (2) COLORS (NORMAN SIZE)
- (B) GROUND FACE CONCRETE UNIT MASONRY BY JANDRIS (OR EQUAL) (2) COLORS (2) SIZES TOTAL (HALF & FULL HEIGHT)
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- (F) PHENOLIC RAINSCREEN PANEL PLANKS W/ WOOD VENEER FINISH (1) COLOR TOTAL

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: CF/JC

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Exterior Elevations

3.6.02

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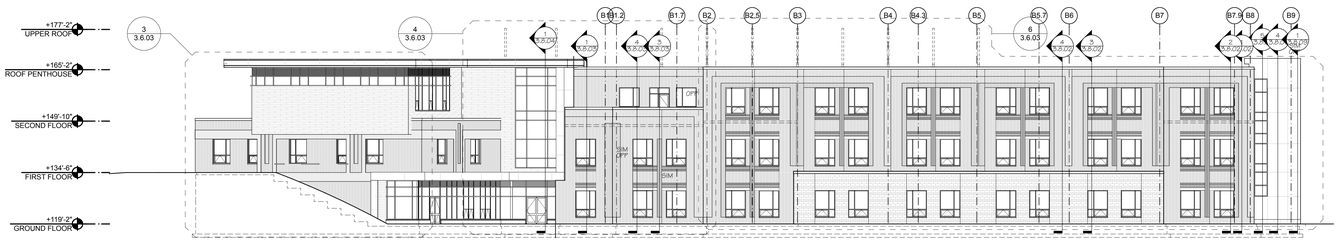
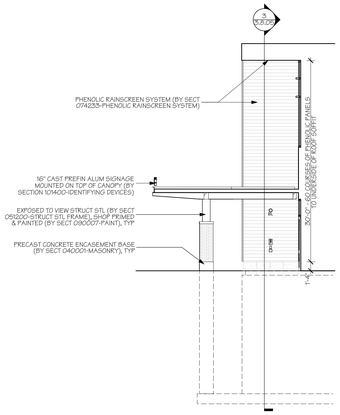
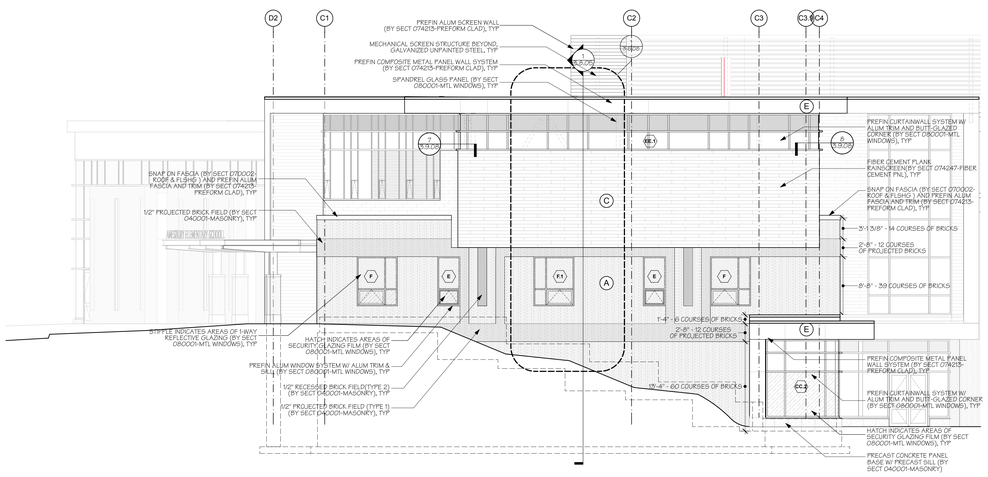


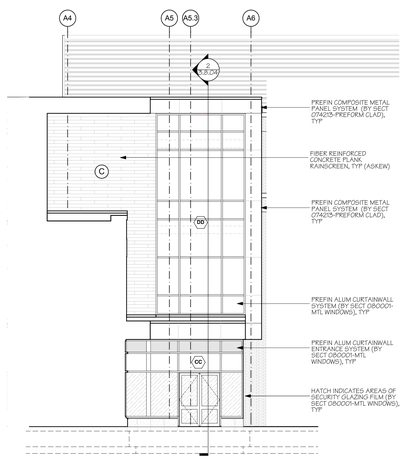
1 **Overall East Elevation**
SCALE: 1/16" = 1'-0"



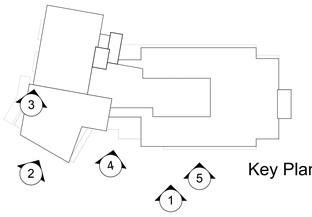
2 **East Gym Elevation**
SCALE: 1/8" = 1'-0"



3 **East Elevation at Library**
SCALE: 1/8" = 1'-0"



4 **East Elevation at Lobby Window**
SCALE: 1/8" = 1'-0"



Key Plan

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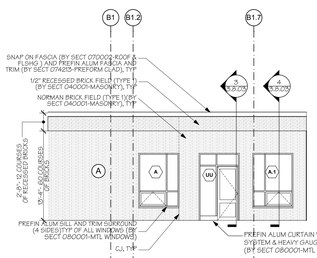
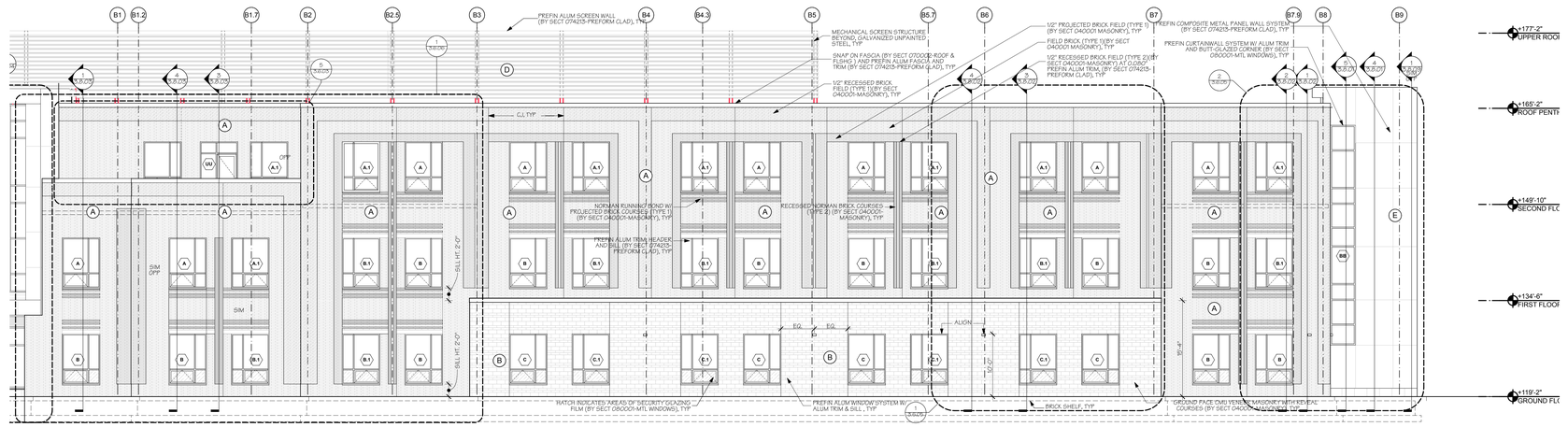


5 **East Elevation at Roof Garden**
SCALE: 1/8" = 1'-0"



6 **East Elevation**
SCALE: 1/8" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: CF/JC

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Exterior Elevations

3.6.03

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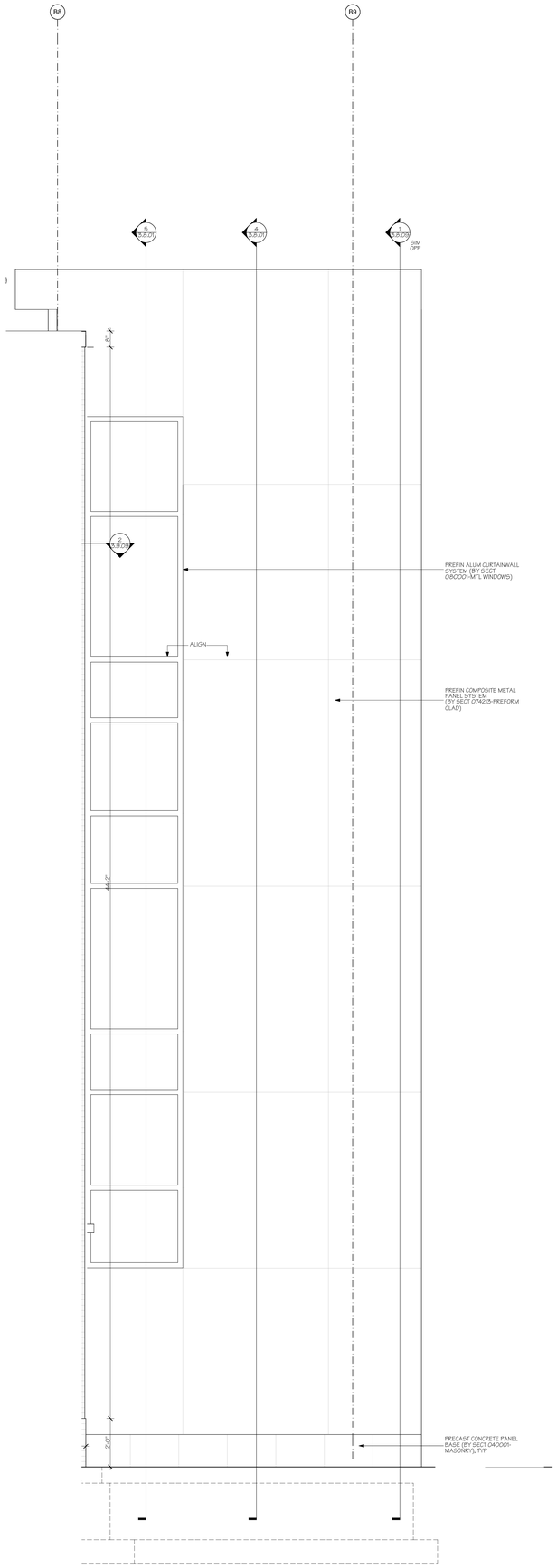
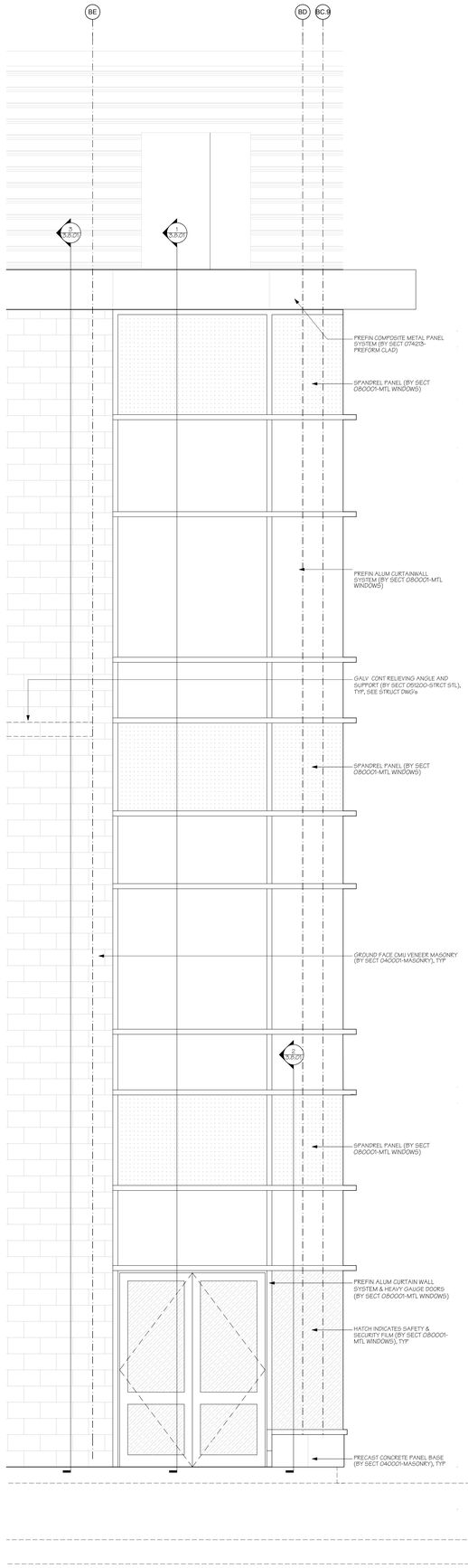
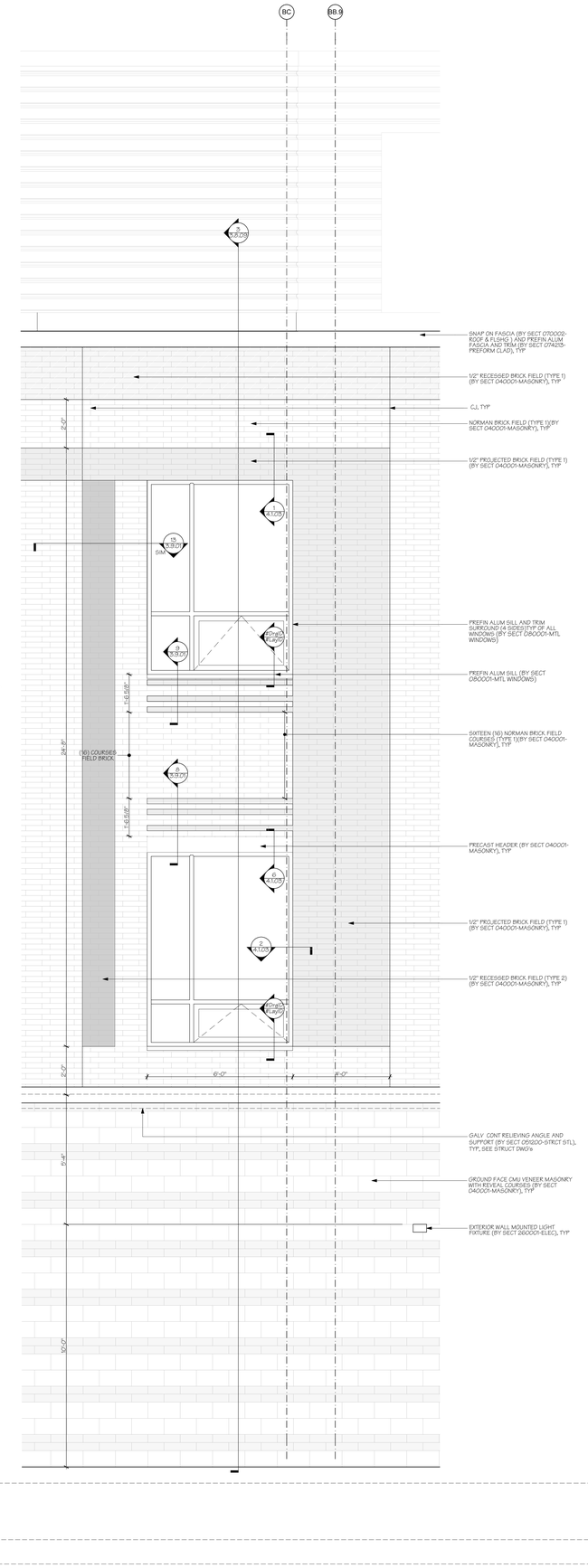


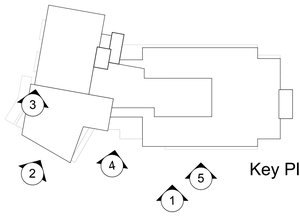
3 **East Elevation**
SCALE: 1/2" = 1'-0"



1 **North Elevation-Enlarged**
SCALE: 1/2" = 1'-0"



2 **North Elevation-Enlarged**
SCALE: 1/2" = 1'-0"



Key Plan

EXTERIOR WALL CLADDING LEGEND

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 2 4

Revisions CMF

Number	Date	Description

60% COST ESTIMATE SET

Enlarged Exterior Elevations

3.6.04

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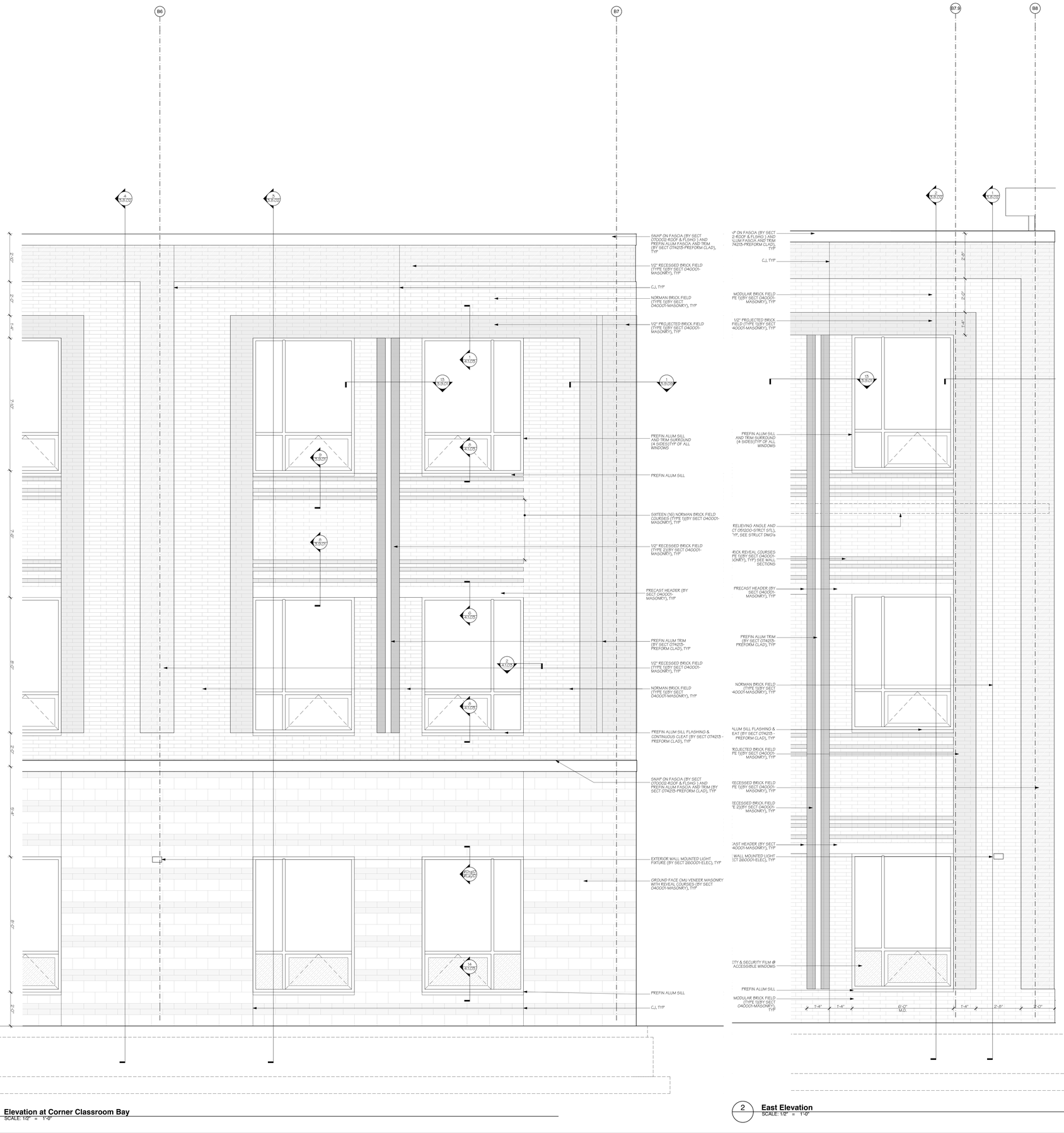
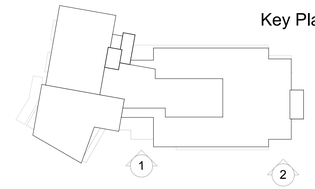


1 **Elevation at Corner Classroom Bay**
SCALE: 1/2" = 1'-0"

2 **East Elevation**
SCALE: 1/2" = 1'-0"

Key Plan



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KEY PLAN

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Scale: 0 2 4

Revisions CMF

Number	Date	Description

60% COST ESTIMATE SET

Enlarged Exterior Elevations

3.6.05

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EXTERIOR WALL CLADDING LEGEND

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1 **East Elevatoion at Teachers Workroom**
SCALE: 1/2" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: CMF

Scale: 0 2 4

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Enlarged Exterior Elevations

3.6.06

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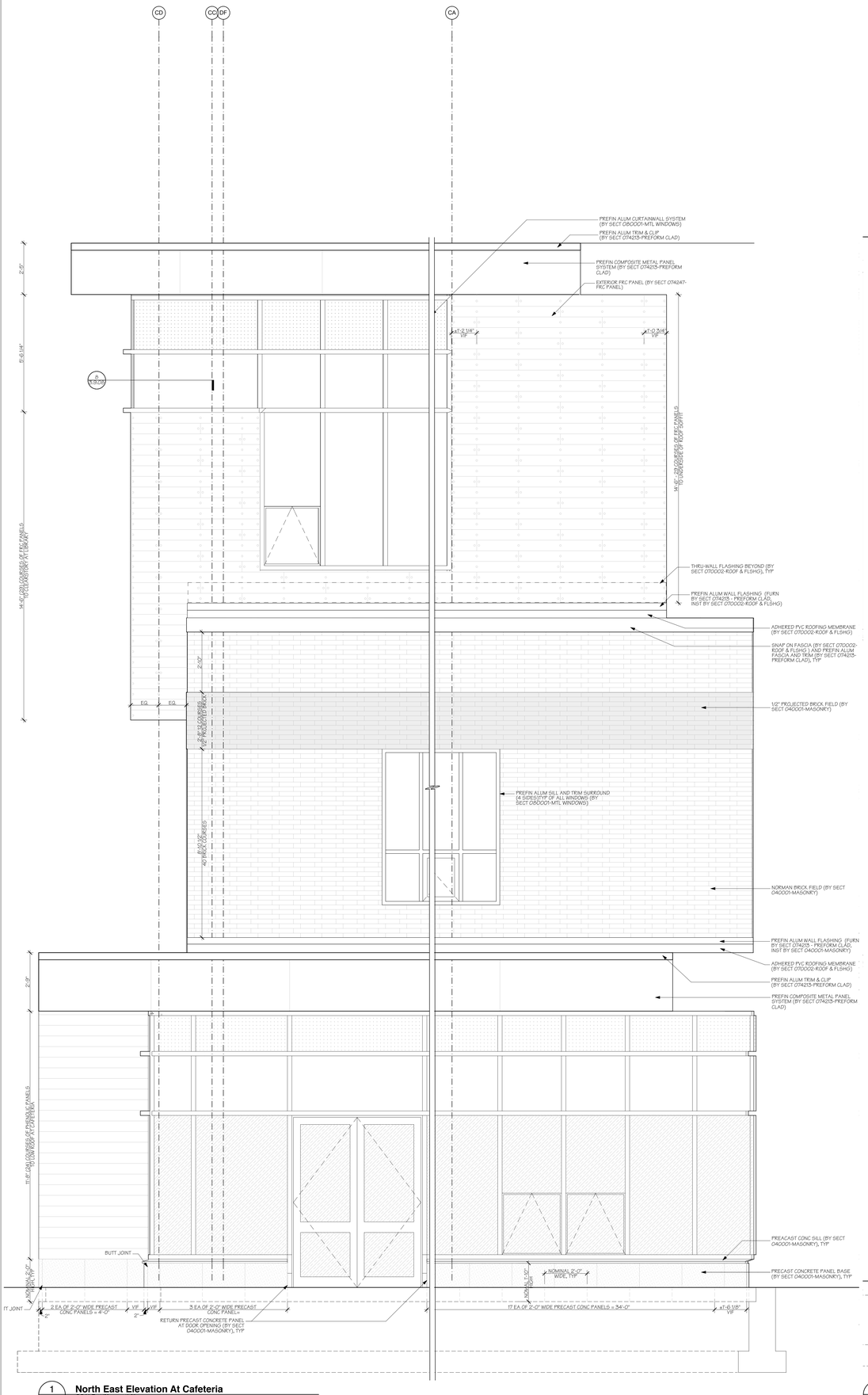
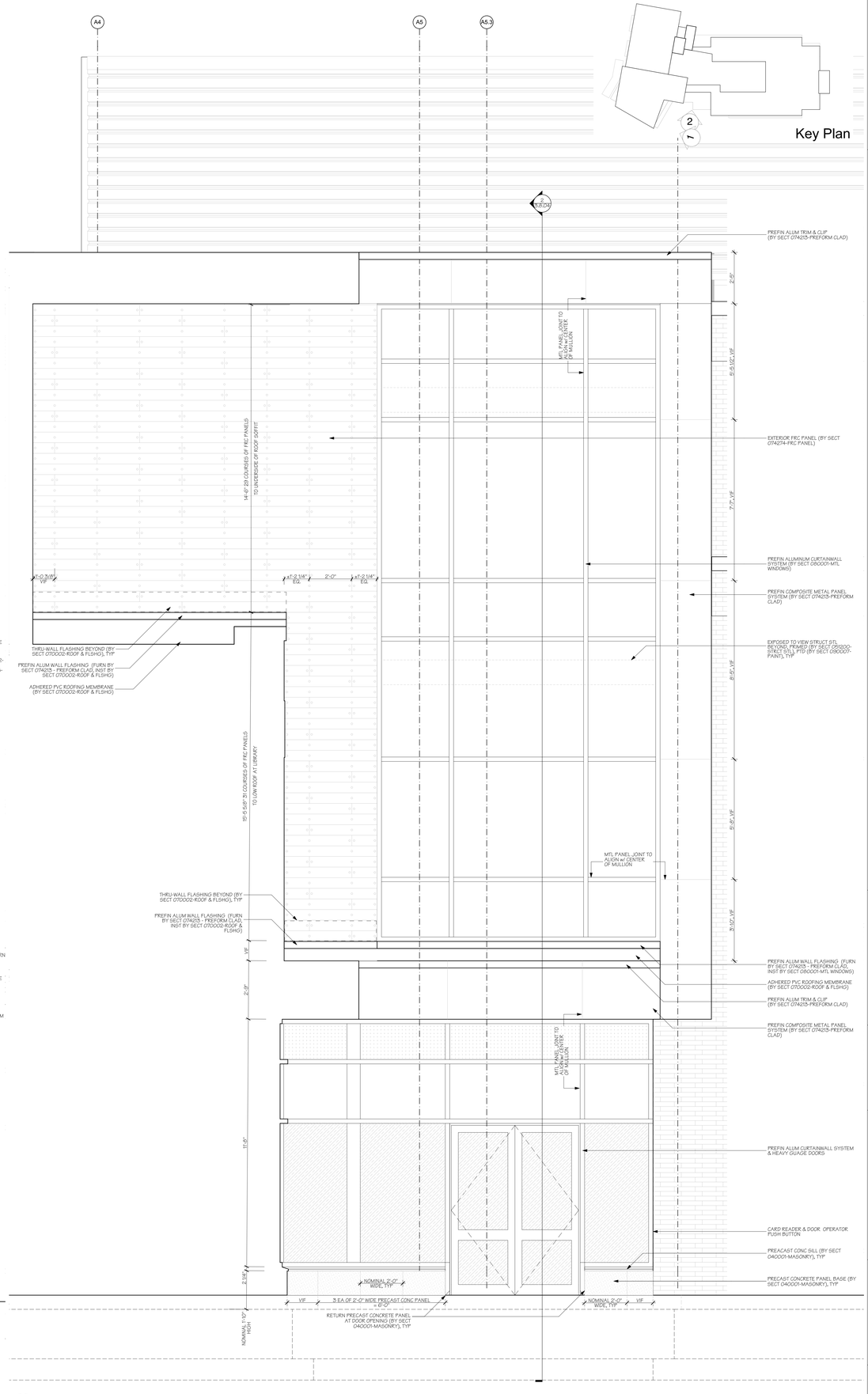


1 **North East Elevation At Cafeteria**
SCALE: 1/2" = 1'-0"



2 **East Elevation @ Lobby Window Wall**
SCALE: 1/2" = 1'-0"

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KEY PLAN

NORTH ARROW *STAMP*

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Drawn By:

Scale: 0 2 4

Revisions JC/CMF

Number	Date	Description

60% COST ESTIMATE SET

Enlarged Exterior Elevations

3.6.07

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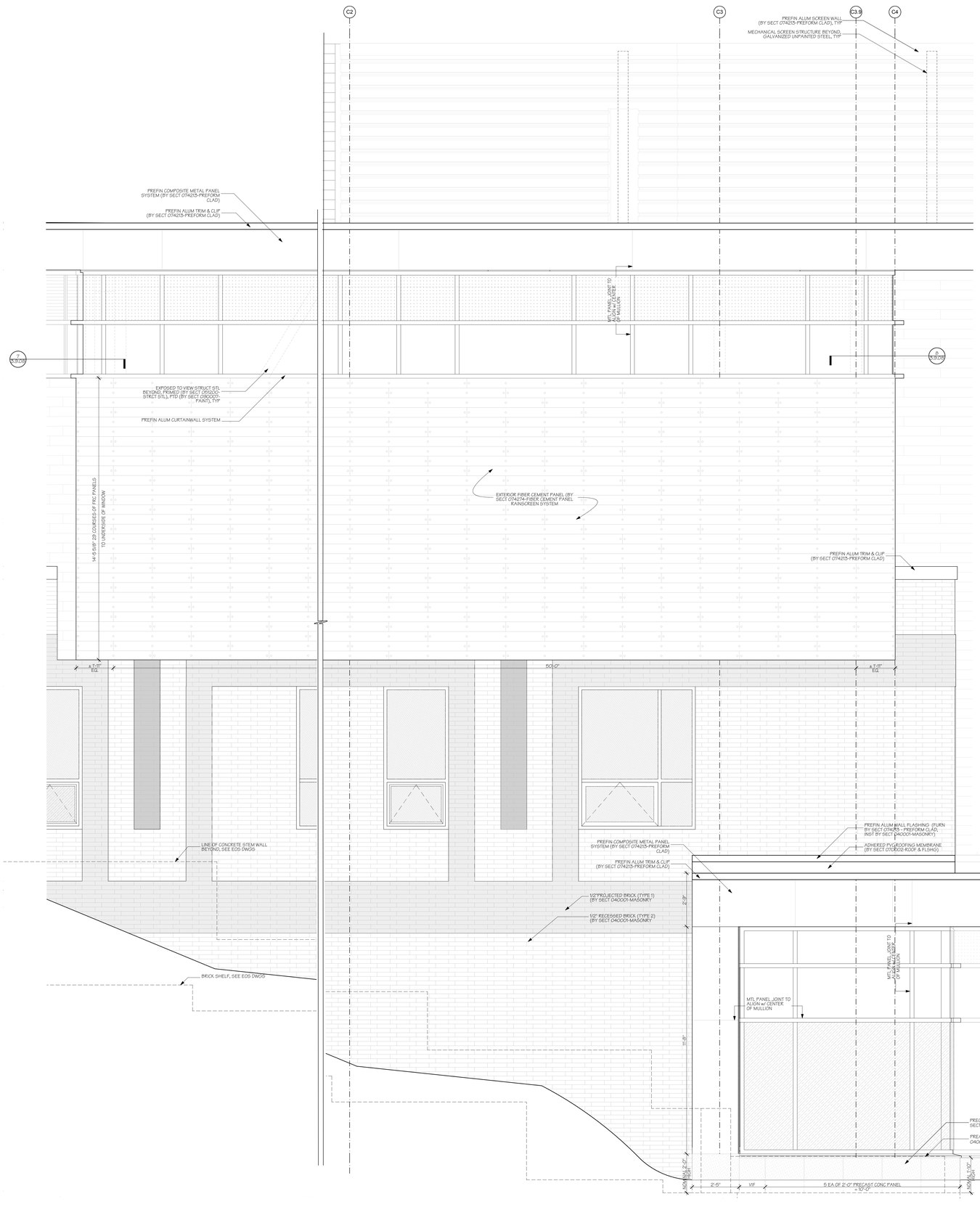
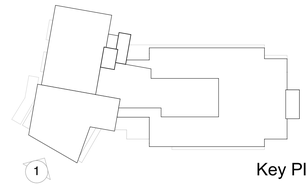


1 **East Elevation at Library**
SCALE: 1/2" = 1'-0"



Key Plan

EXTERIOR WALL CLADDING LEGEND

- (A) BRICK UNIT MASONRY BY ENDICOTT CLAY PRODUCTS (OR EQUAL), (2) COLORS (MODULAR SIZE)
- (B) GROUND FACE CONCRETE UNIT MASONRY BY JANDRIS (OR EQUAL) (2) SIZES TOTAL (HALF & FULL HEIGHT)
- (C) LINEARIS FIBER CEMENT PLANK W/ EXPOSED FASTENERS BY SWISSPEARL (OR EQUAL)
- (D) CENTRIA "IW SERIES" (OR EQUAL) CONCEALED FASTENER PANELS - PREFINISHED ALUMINUM, PAINTED (2) PROFILE TYPES TOTAL
- (E) CENTRIA "FORMAWALL SERIES" (OR EQUAL) METAL COMPOSITE PANELS - PREFINISHED ALUMINUM, PAINTED (2) COLORS TOTAL

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KEY PLAN

NORTH ARROW *STAMP*

Date: 15 MAY 2020

Drawn By: JC/CMF

Scale: 0 2 4

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Enlarged Exterior Elevations

3.6.08

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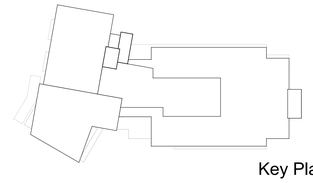

Key Plan

EXTERIOR WALL CLADDING LEGEND

- (A) BRICK UNIT MASONRY BY ENDICOTT CLAY PRODUCTS (OR EQUAL), (2) COLORS (MODULAR SIZE)
- (B) GROUND FACE CONCRETE UNIT MASONRY BY JANDRIS (OR EQUAL) (2) SIZES TOTAL (HALF & FULL HEIGHT)
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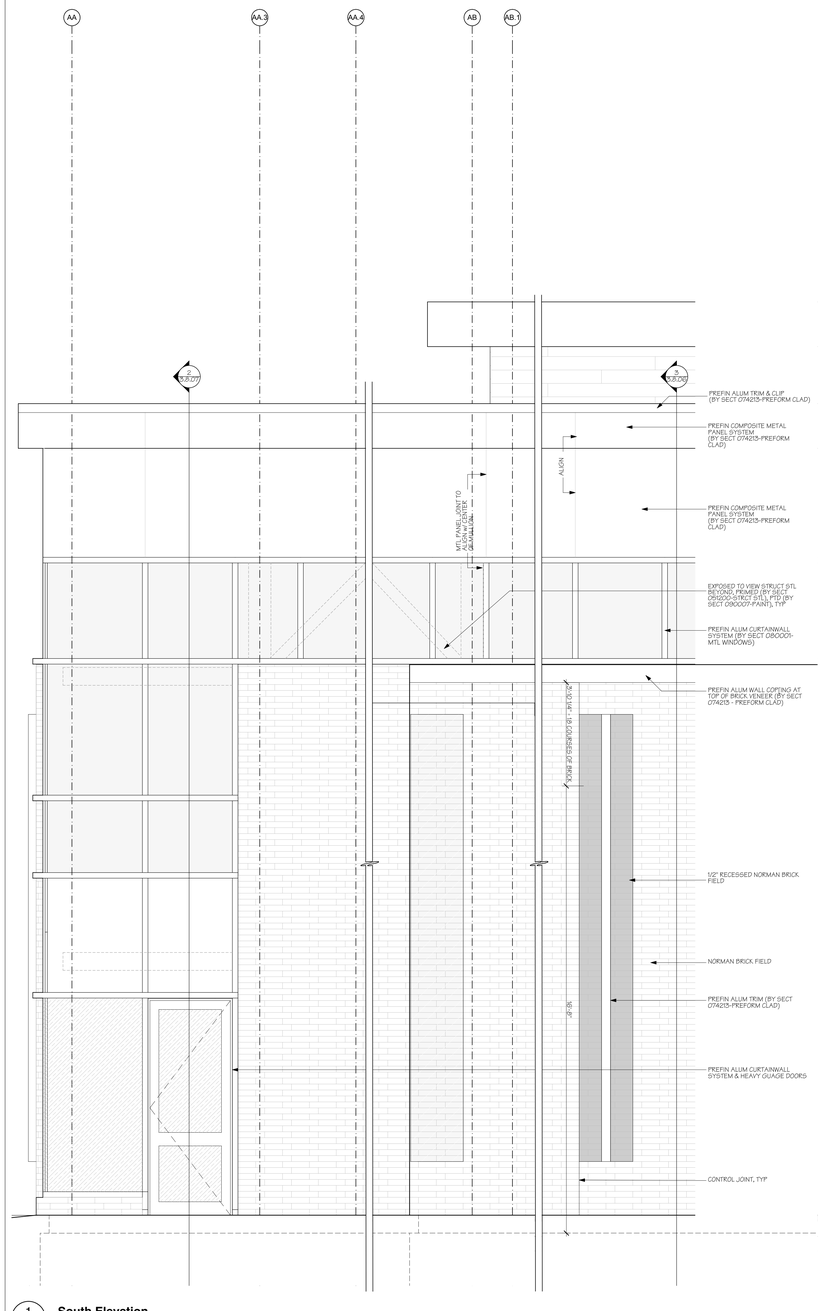
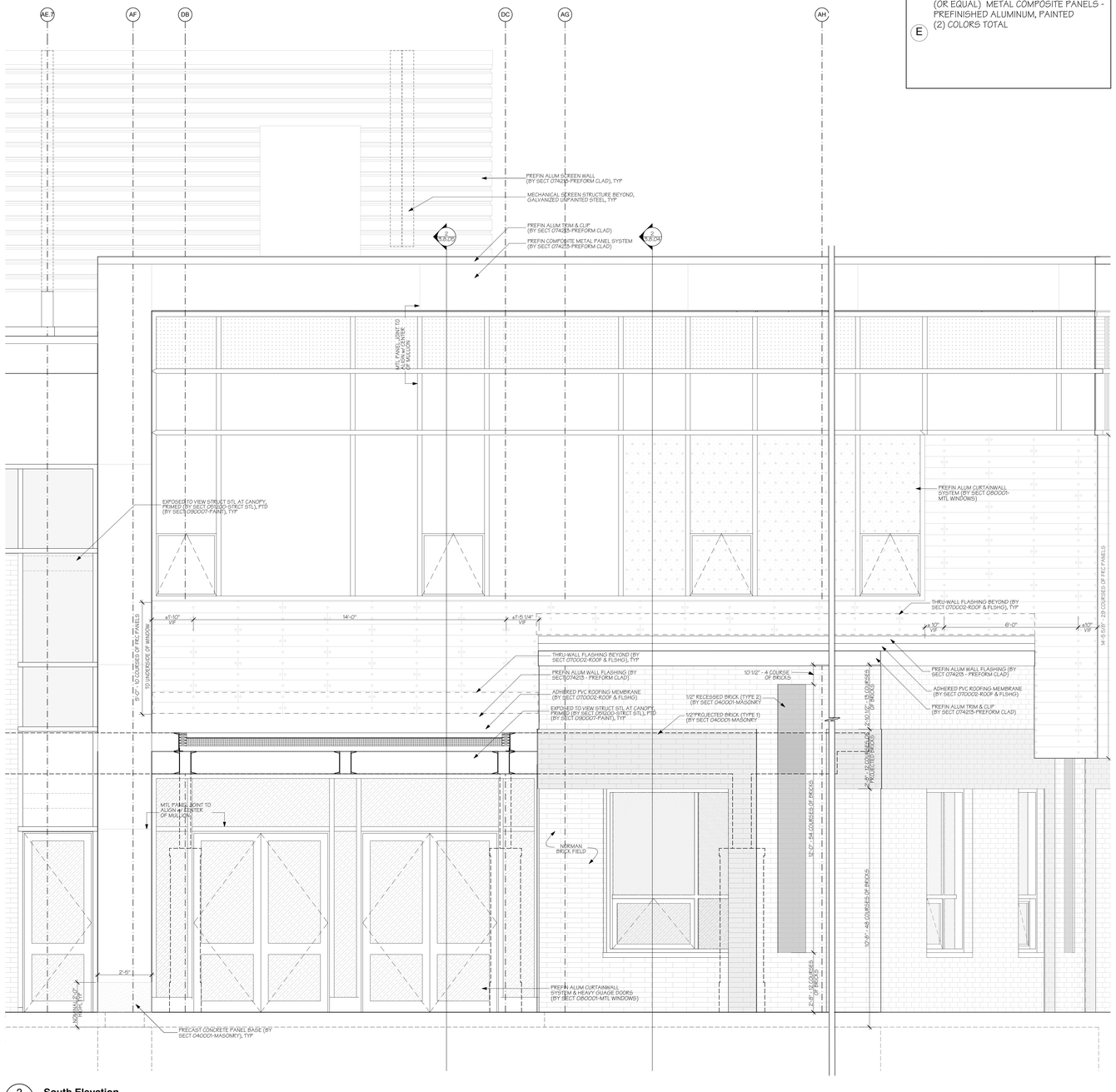
- (E) CENTRIA "FORMAWALL SERIES" (OR EQUAL) METAL COMPOSITE PANELS - PREFINISHED ALUMINUM, PAINTED (2) COLORS TOTAL



1 **South Elevation**
SCALE: 1/2" = 1'-0"



2 **South Elevation**
SCALE: 1/2" = 1'-0"

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KEY PLAN

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Date: 15 MAY 2020

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Revisions JC/CMF

Number	Date	Description

60% COST ESTIMATE SET

Enlarged Exterior Elevations

3.6.09

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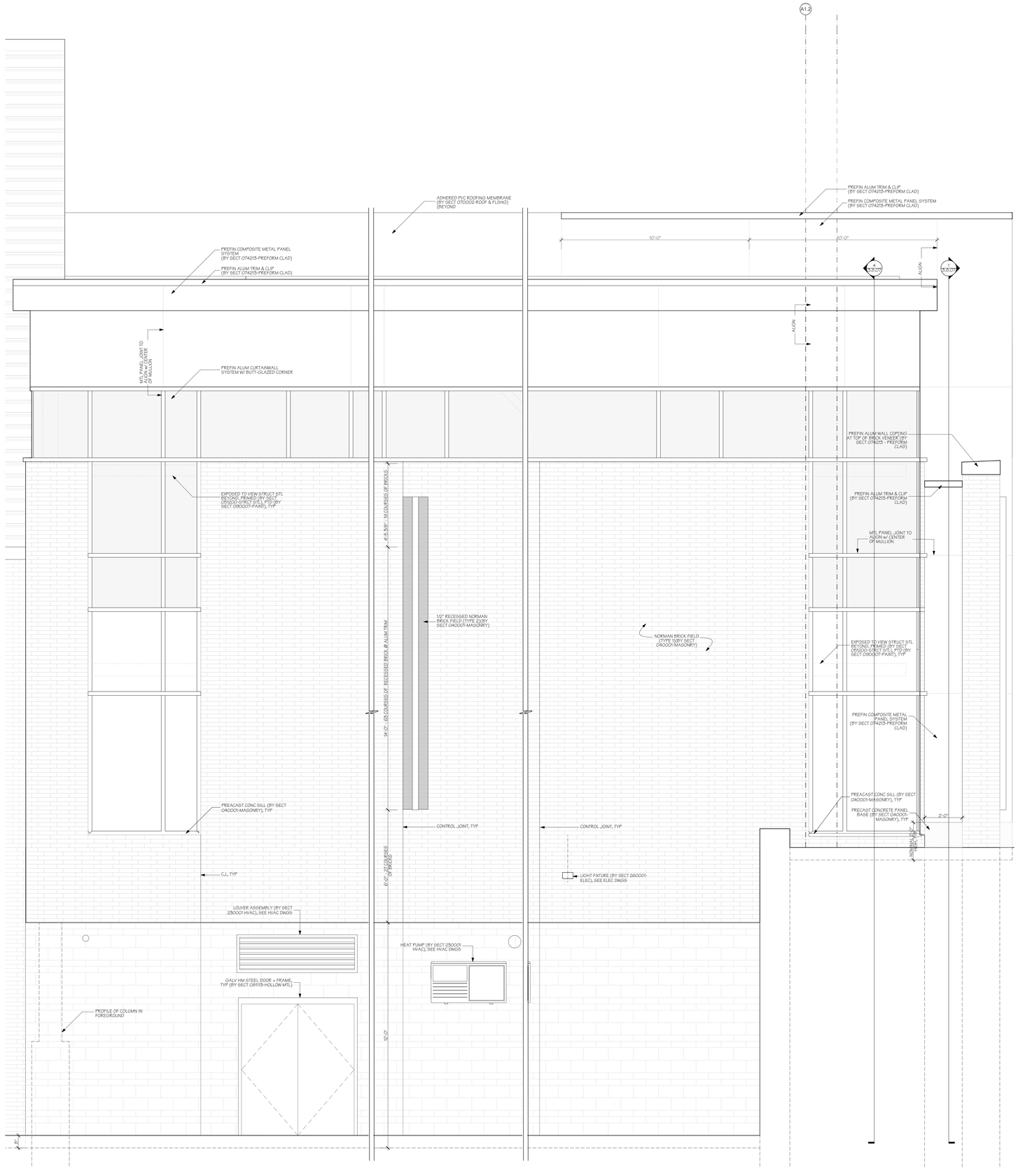
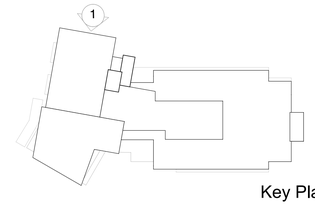


1 **West Gym Elevation**
SCALE: 1/2" = 1'-0"



Key Plan

EXTERIOR WALL CLADDING LEGEND

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Scale: 0 2 4

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Enlarged Exterior Elevations

3.6.10

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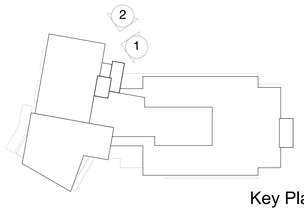
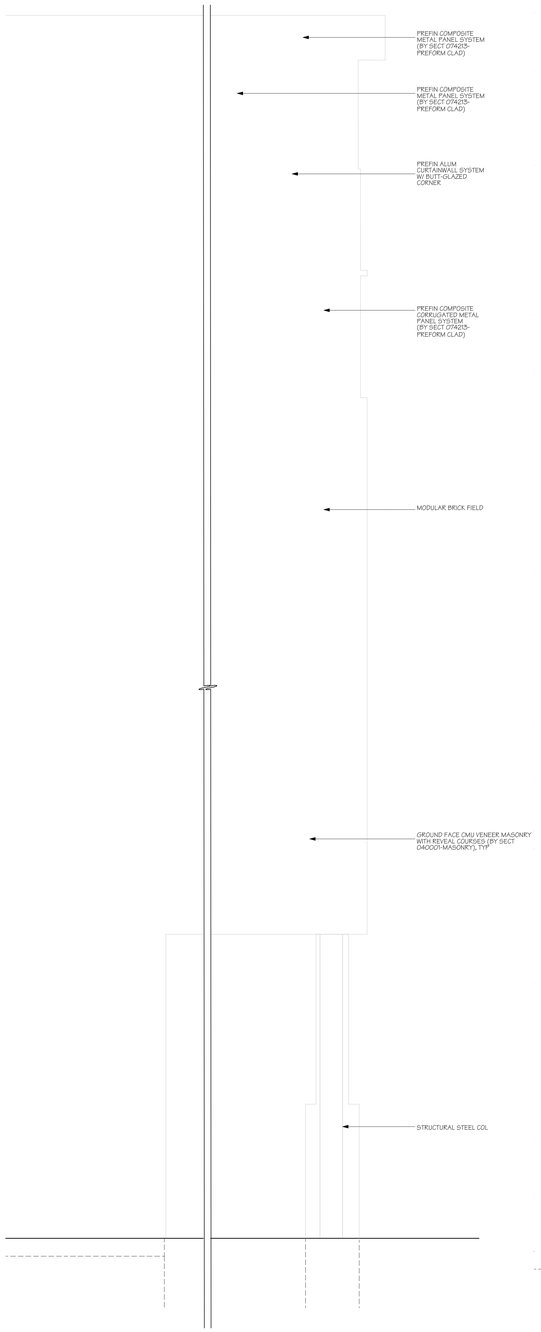
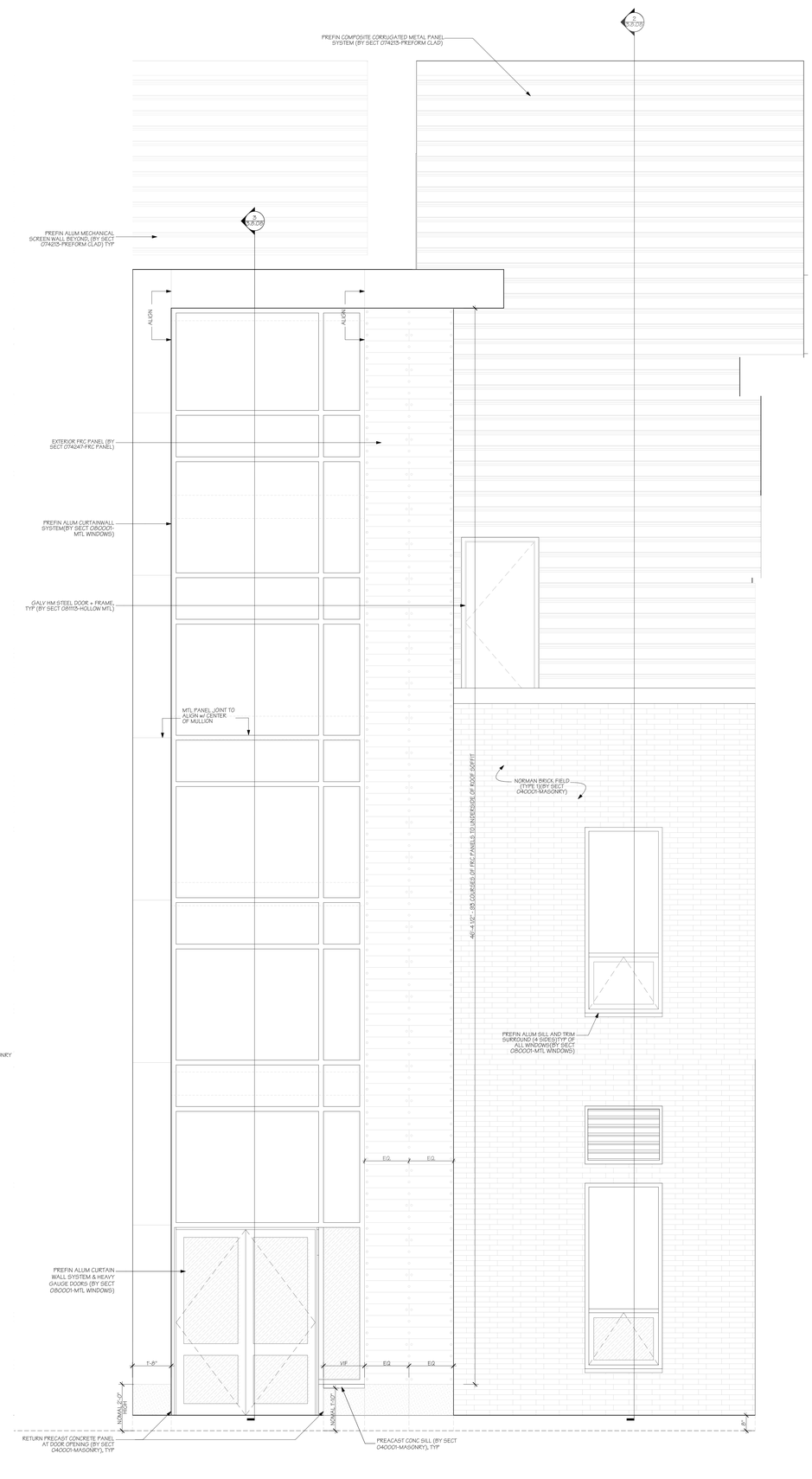


Key Plan





1 **North Gym/Stair Elevation**
SCALE: 1/2" = 1'-0"

2 **West Gym Elevation**
SCALE: 1/2" = 1'-0"

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Revisions JC/CMF

Number	Date	Description

60% COST ESTIMATE SET

Enlarged Exterior Elevations

3.6.11

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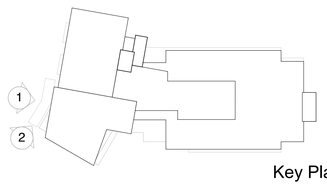
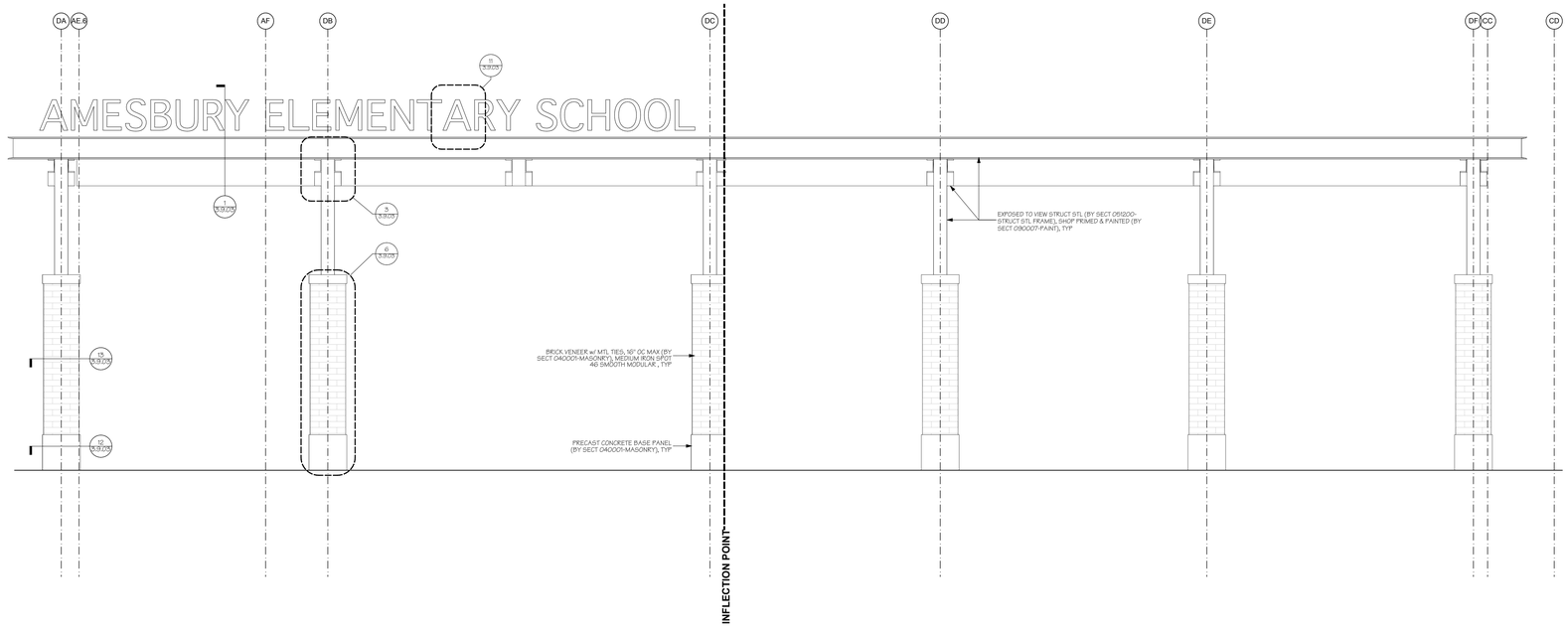
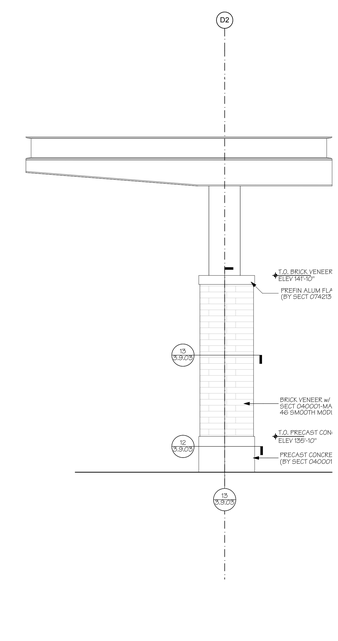


Key Plan





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Revisions

Number	Date	Description

60% COST ESTIMATE SET

Enlarged Canopy Elevations

3.6.12

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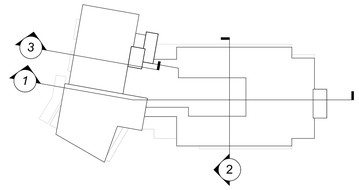
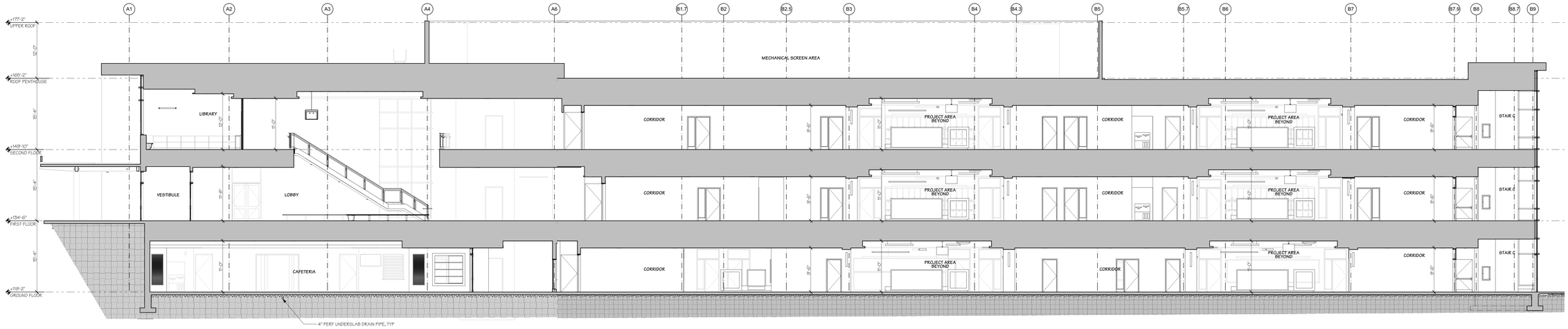
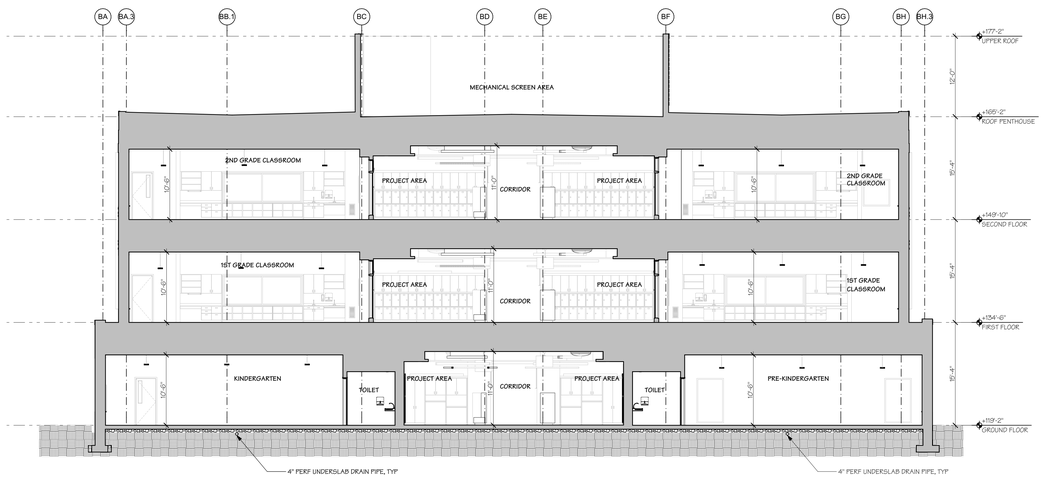


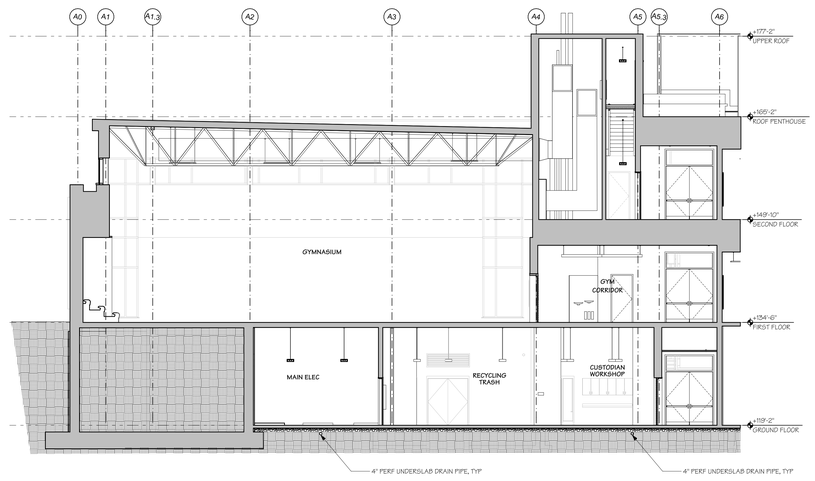
Key Plan



1 **Longitudinal Building Section**
SCALE: 1/8" = 1'-0"



2 **Cross Section Classrooms**
SCALE: 1/8" = 1'-0"



2 **Cross Section Gym**
SCALE: 1/8" = 1'-0"

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KEY PLAN

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Revisions

Number	Date	Description

60% COST ESTIMATE SET

Building Sections

3.7.01

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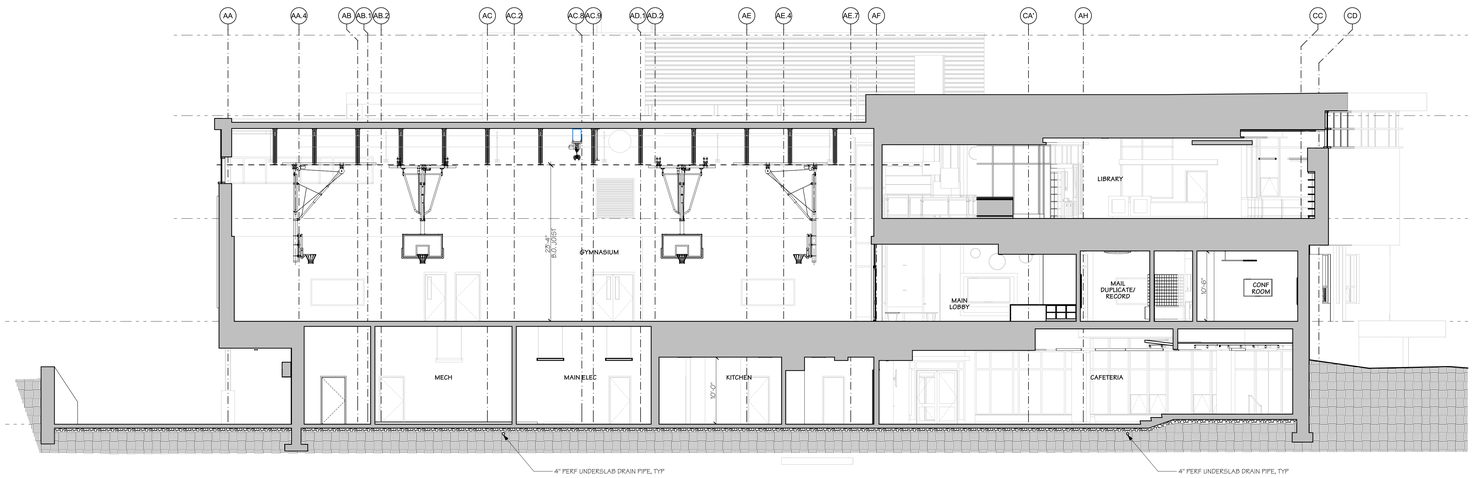
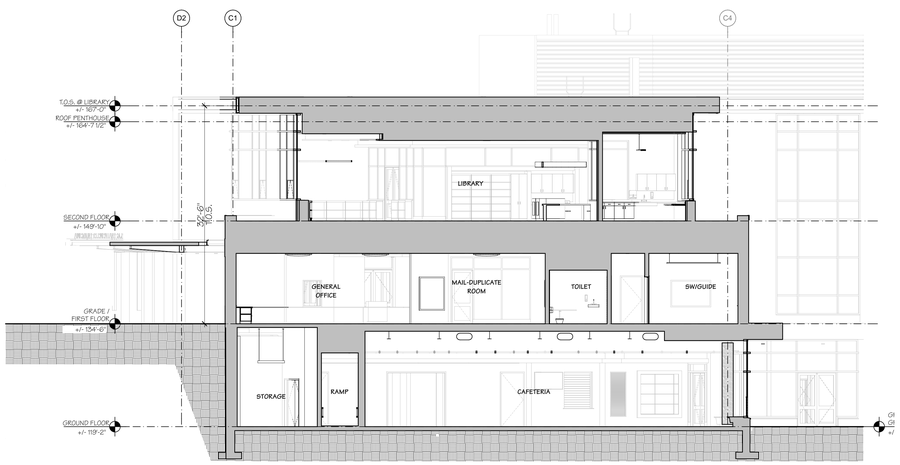


1 **Cross Section Gym, Cafe and Library**
SCALE: 1/8" = 1'-0"



2 **Cross Section Cafe, Stage and Library**
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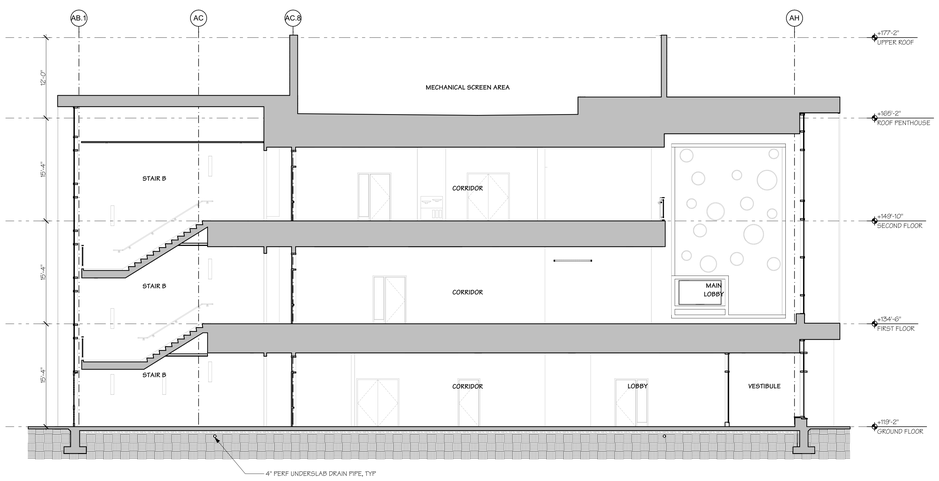

3 **Cross Section Lobby and Stair B**
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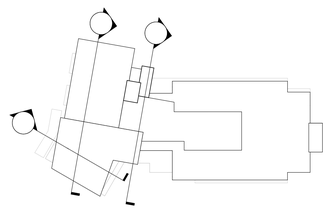

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KEY PLAN

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Revisions BS

Number	Date	Description

60% COST ESTIMATE SET

Building Sections

3.7.02

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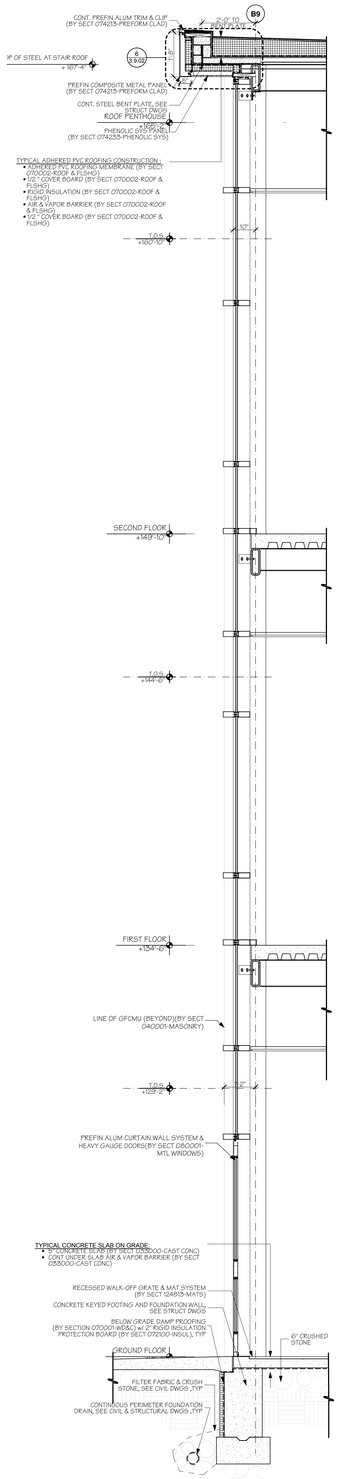
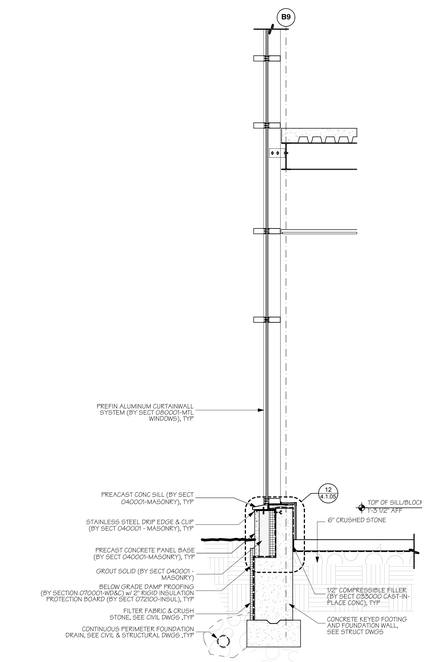
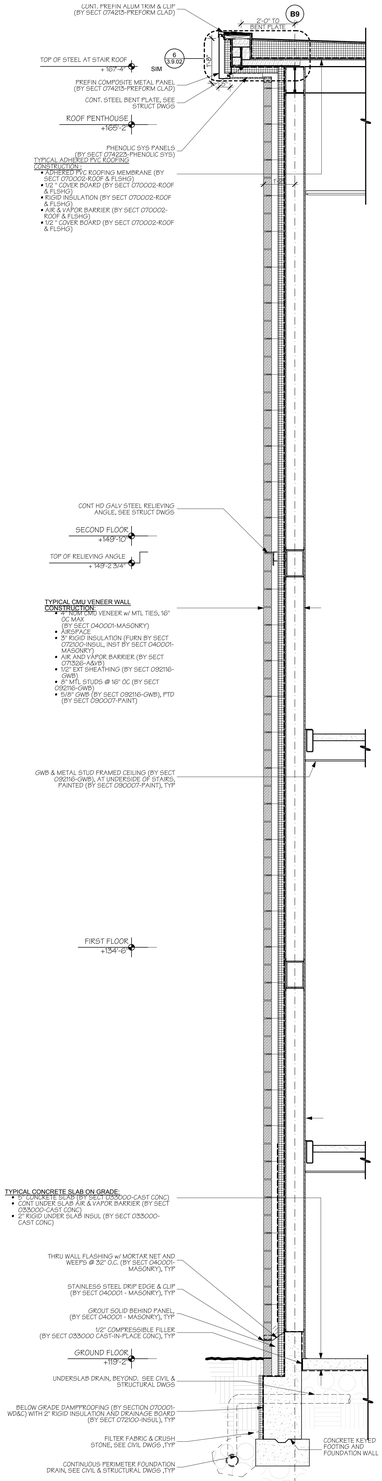


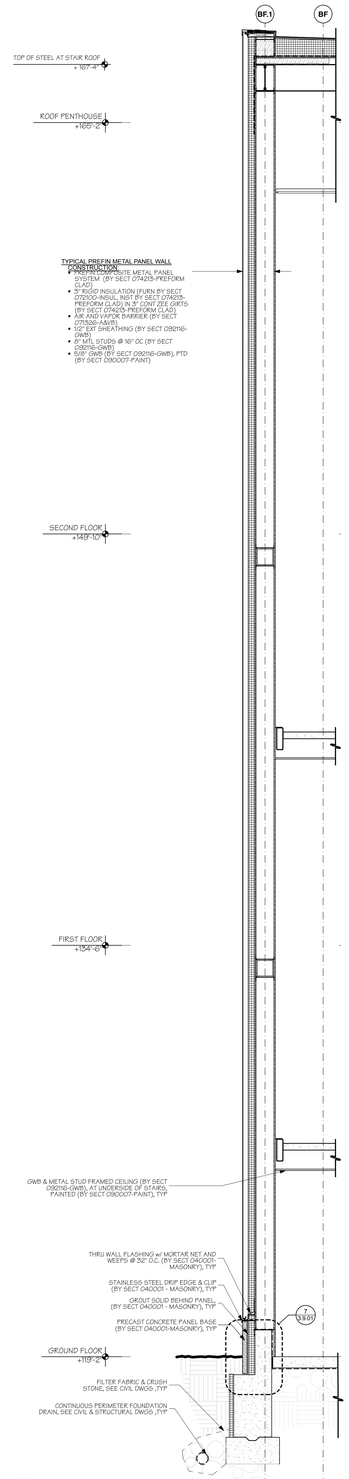
1 **Stair C - Curtainwall**
SCALE: 1/2" = 1'-0"



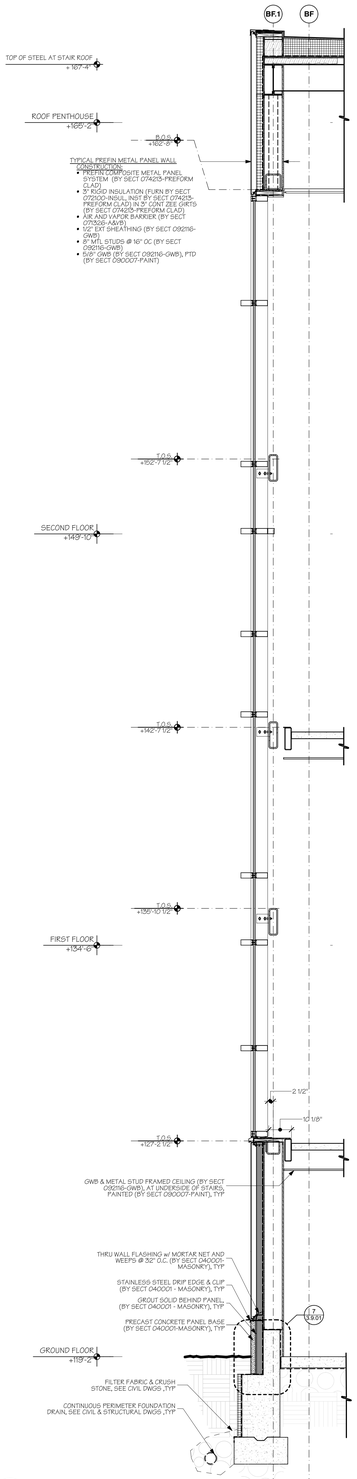
2 **Stair C - Curtainwall @ Precast Sill**
SCALE: 1/2" = 1'-0"



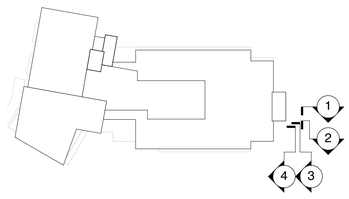
3 **Stair C - CMU wall**
SCALE: 1/2" = 1'-0"



4 **Stair C - Composite Metal Panel**
SCALE: 1/2" = 1'-0"



5 **Stair C - Curtainwall at Metal Panel**
SCALE: 1/2" = 1'-0"



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Scale: 0 2 4

Revisions

Number	Date	Description

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Wall Sections

3.8.01

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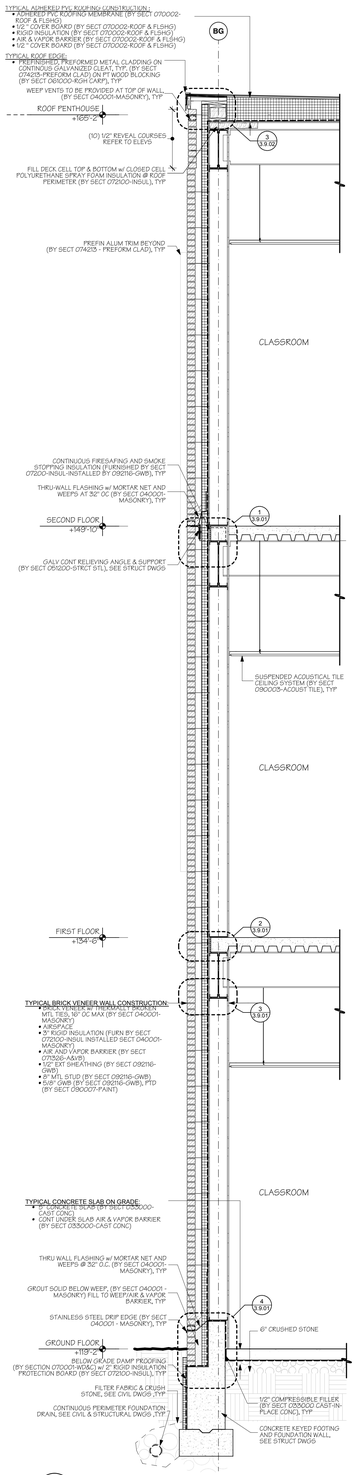
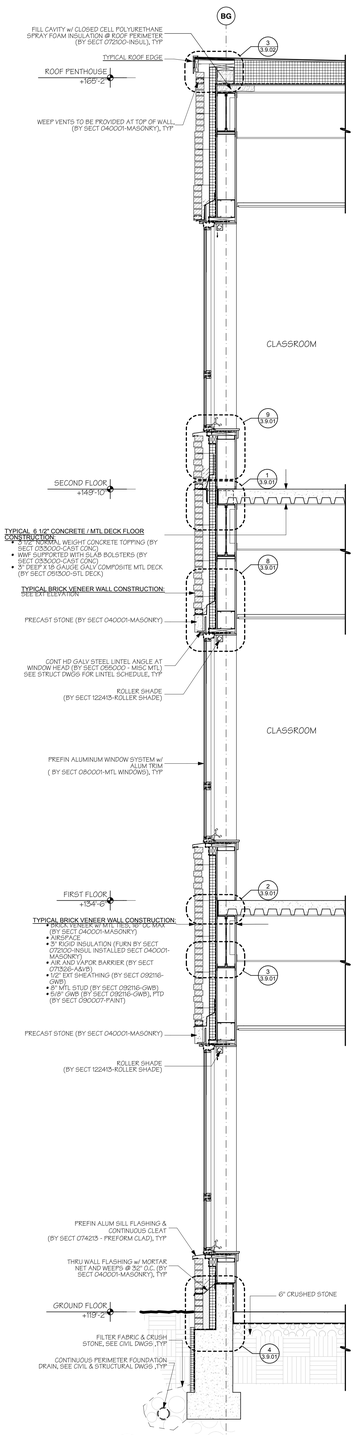
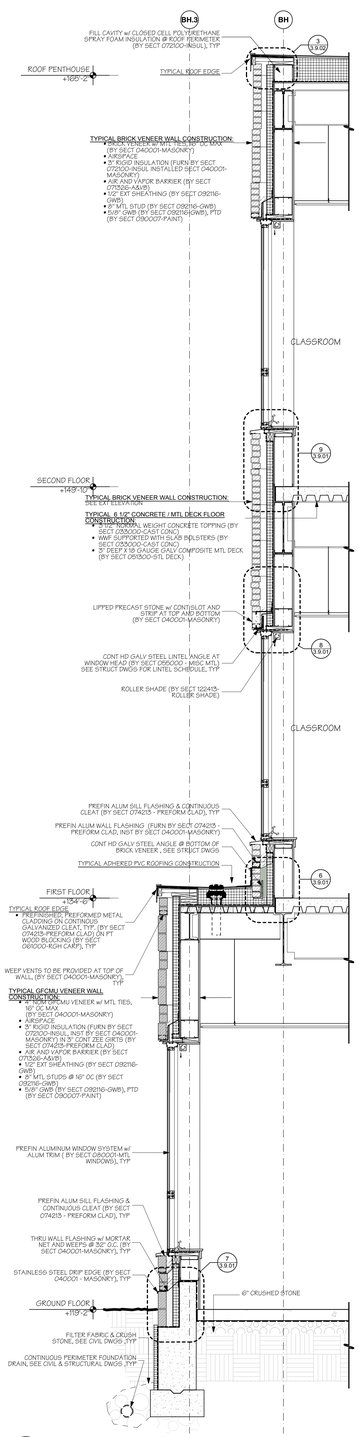


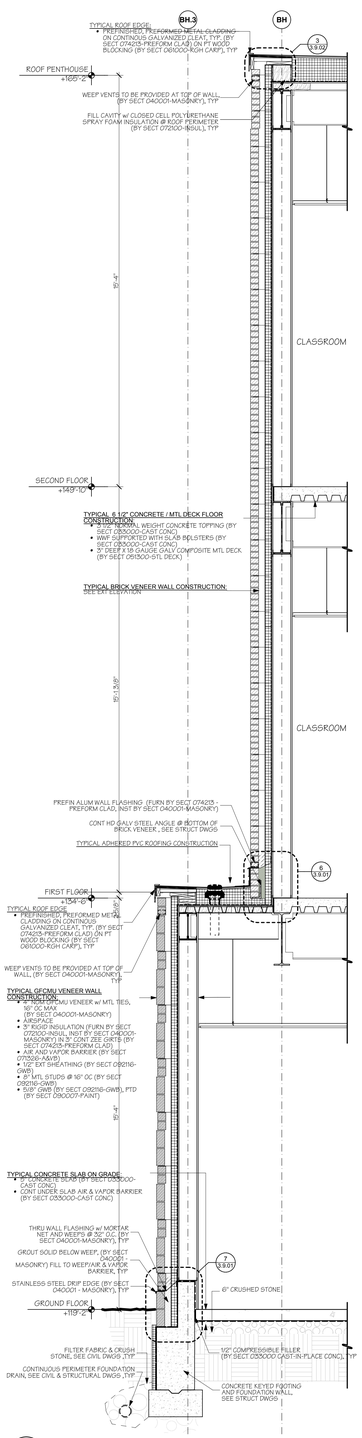
1 **Academic - All Brick**
SCALE: 1/2" = 1'-0"



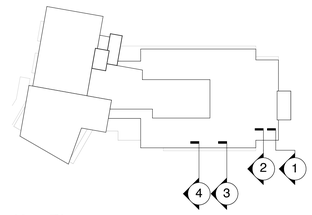
2 **Academic - All Brick w/ Windows**
SCALE: 1/2" = 1'-0"



3 **Academic - Kindergarten GFCMU Brick w/ Windows**
SCALE: 1/2" = 1'-0"



4 **Academic - Kindergarten GFCMU Brick**
SCALE: 1/2" = 1'-0"



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Wall Sections

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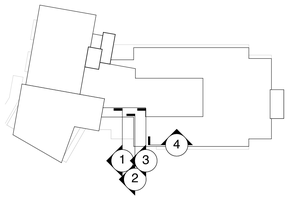

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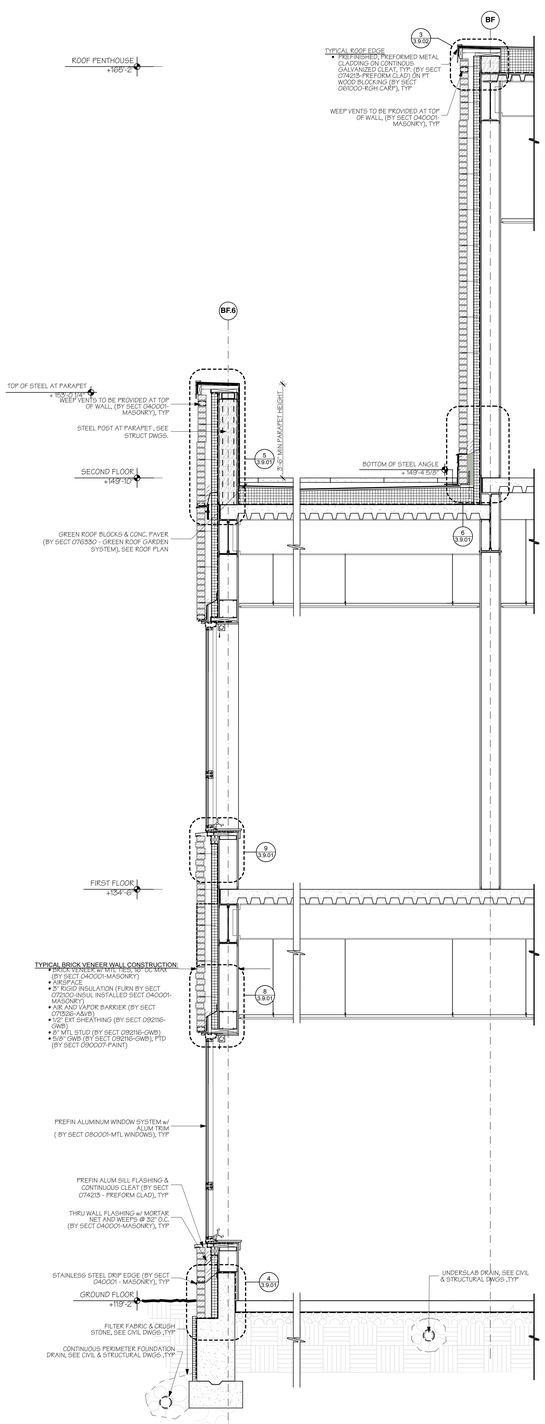
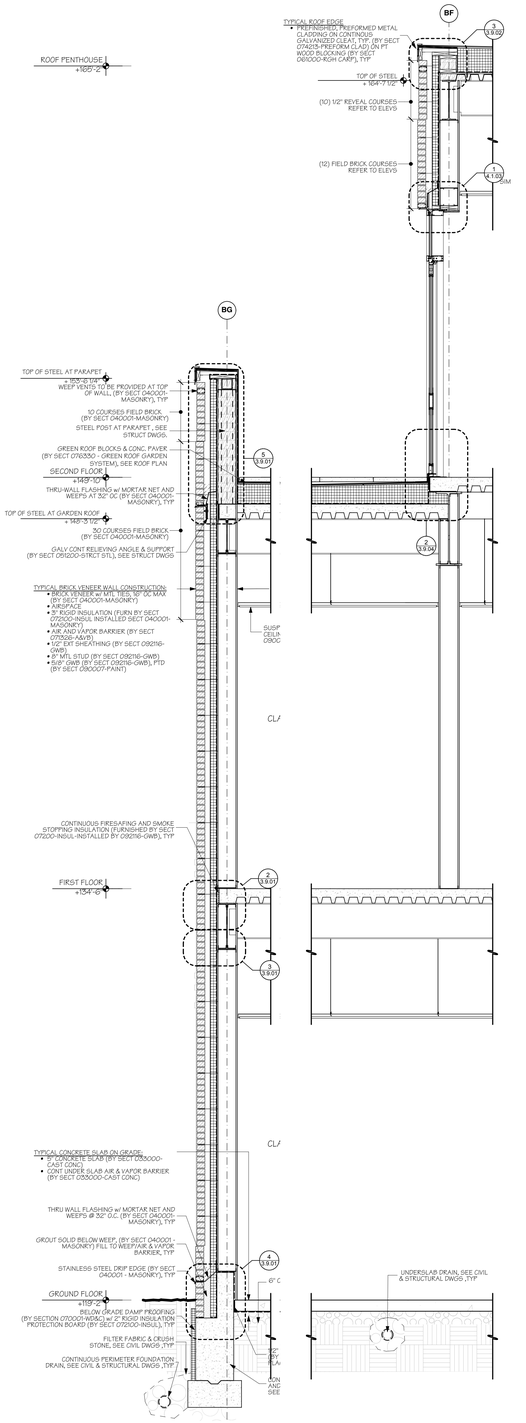
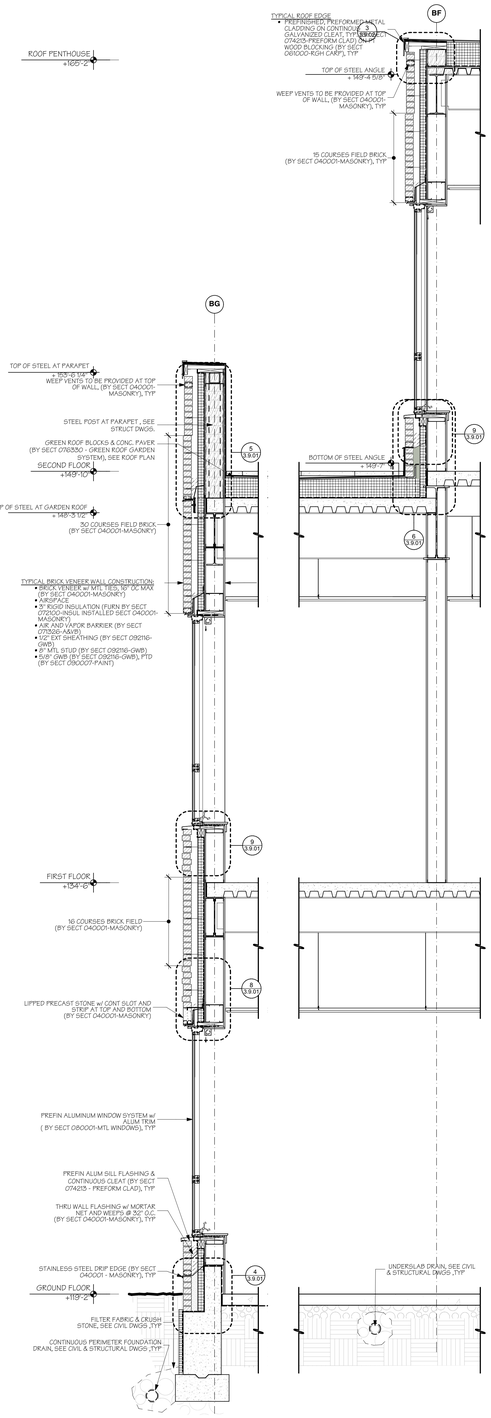


1 **Wall Section Music Room**
SCALE: 1/2" = 1'-0"



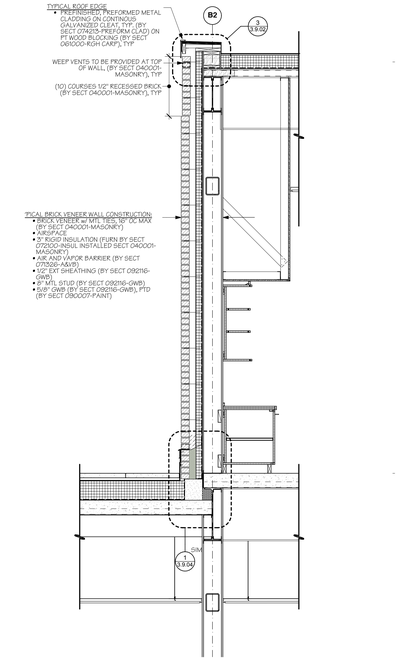
7 **Academic - Green Roof at Door**
SCALE: 1/2" = 1'-0"

3 **Academic - Green Roof at Door**
SCALE: 1/2" = 1'-0"



6 **Academic - Green Roof at Window**
SCALE: 1/2" = 1'-0"

4 **Academic - Green Roof at Window**
SCALE: 1/2" = 1'-0"



5 **Academic - Green Roof at Art Room**
SCALE: 1/2" = 1'-0"

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Number	Date	Description

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Wall Sections

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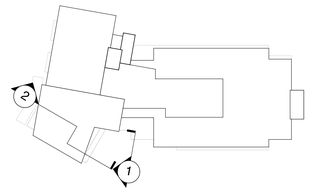

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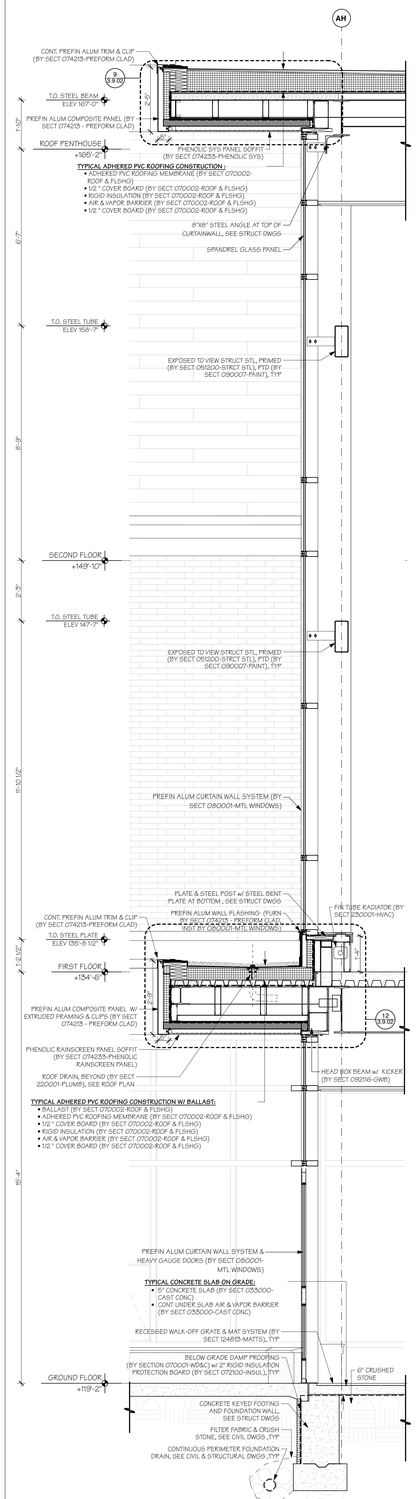

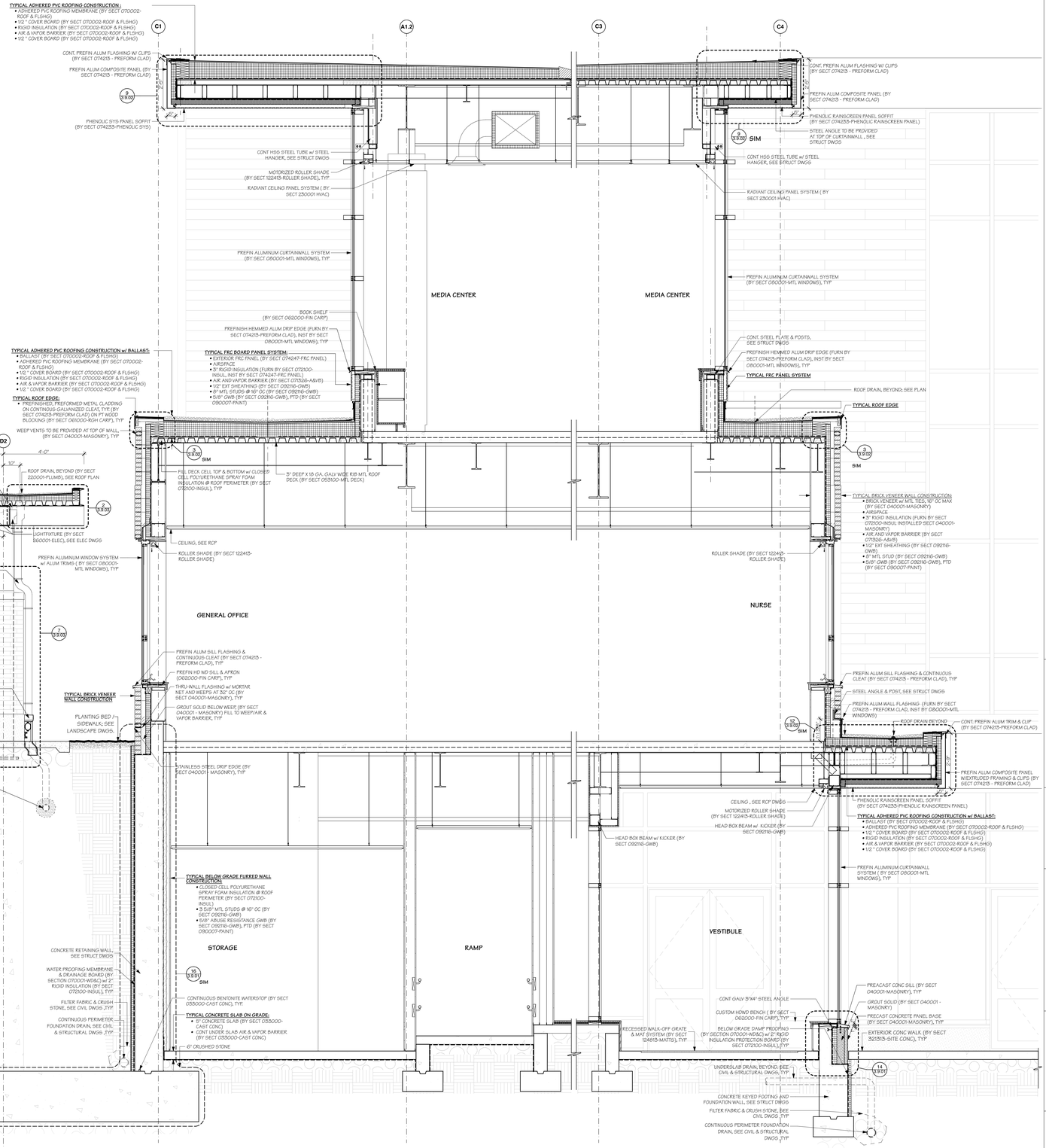

1 **Wall Section at South East Entry**
SCALE: 1/2" = 1'-0"

2 **Wall Section Library Cafe**
SCALE: 1/2" = 1'-0"

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Number	Date	Description

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Wall Sections

3.8.04

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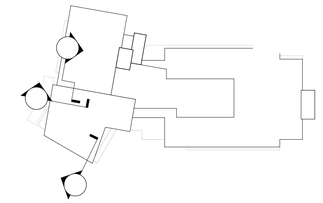

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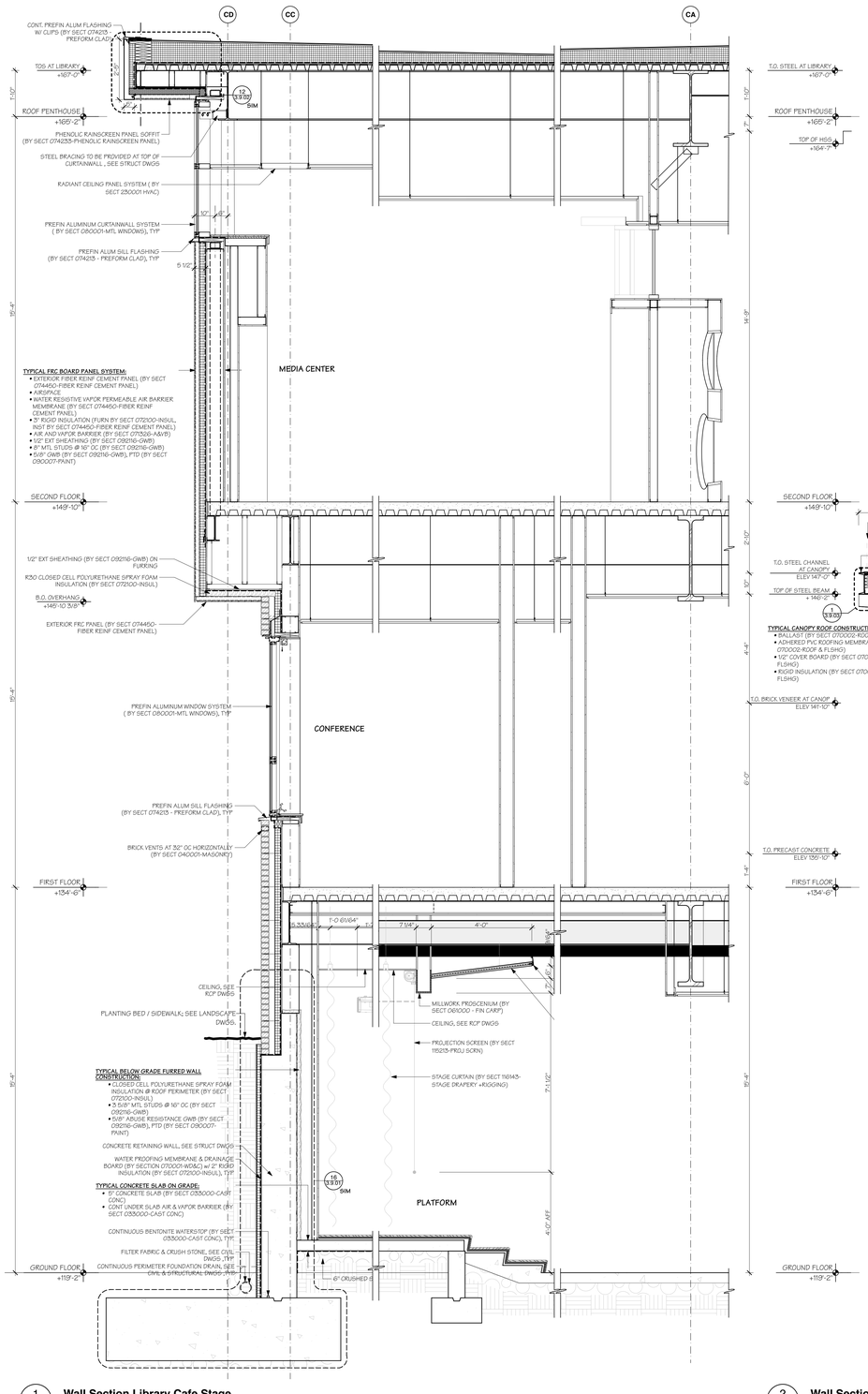

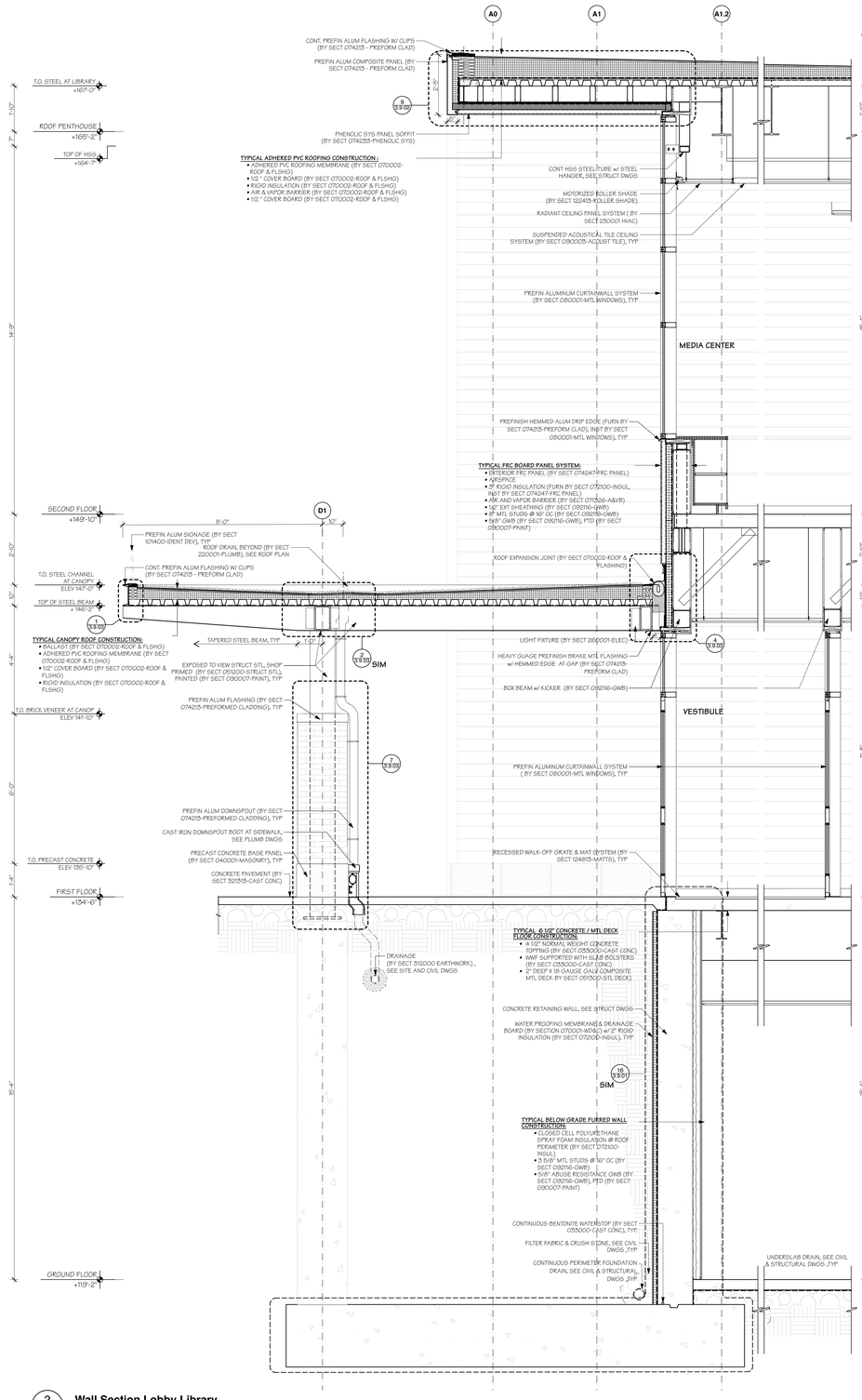

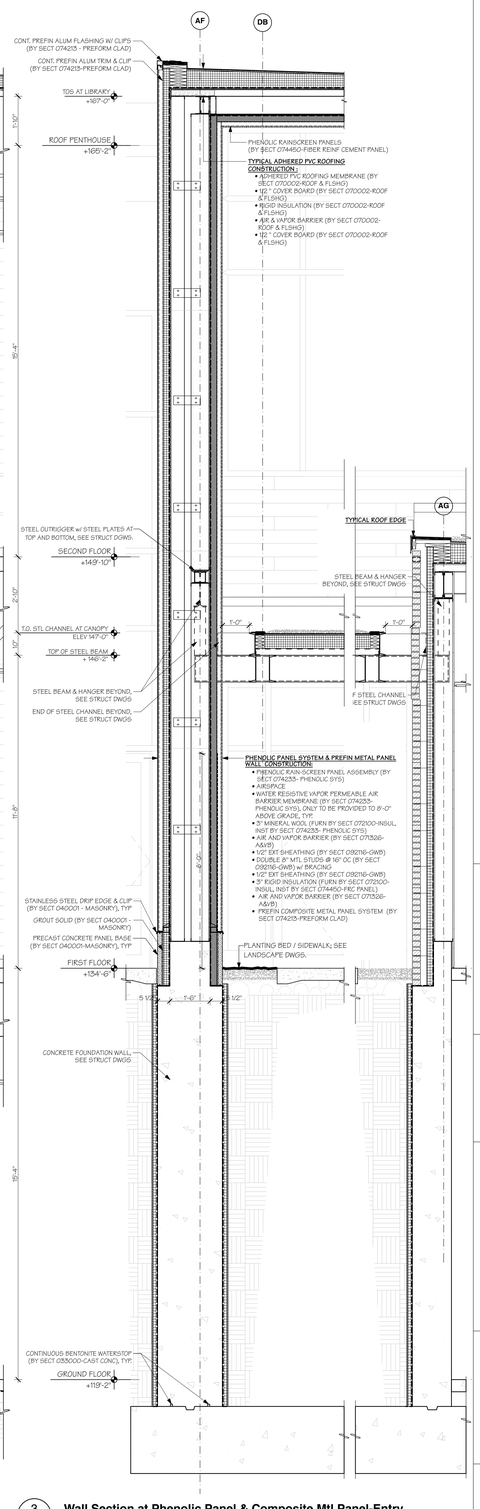

1 **Wall Section Library Cafe Stage**
SCALE: 1/2" = 1'-0"

2 **Wall Section Lobby Library**
SCALE: 1/2" = 1'-0"

3 **Wall Section at Phenolic Panel & Composite Mtl Panel-Entry**
SCALE: 1/2" = 1'-0"

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Revisions

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Wall Sections

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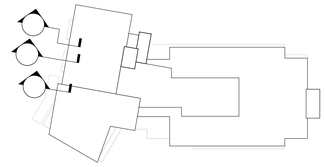

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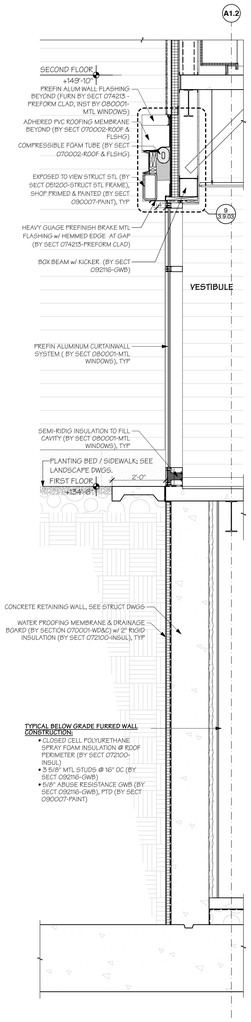
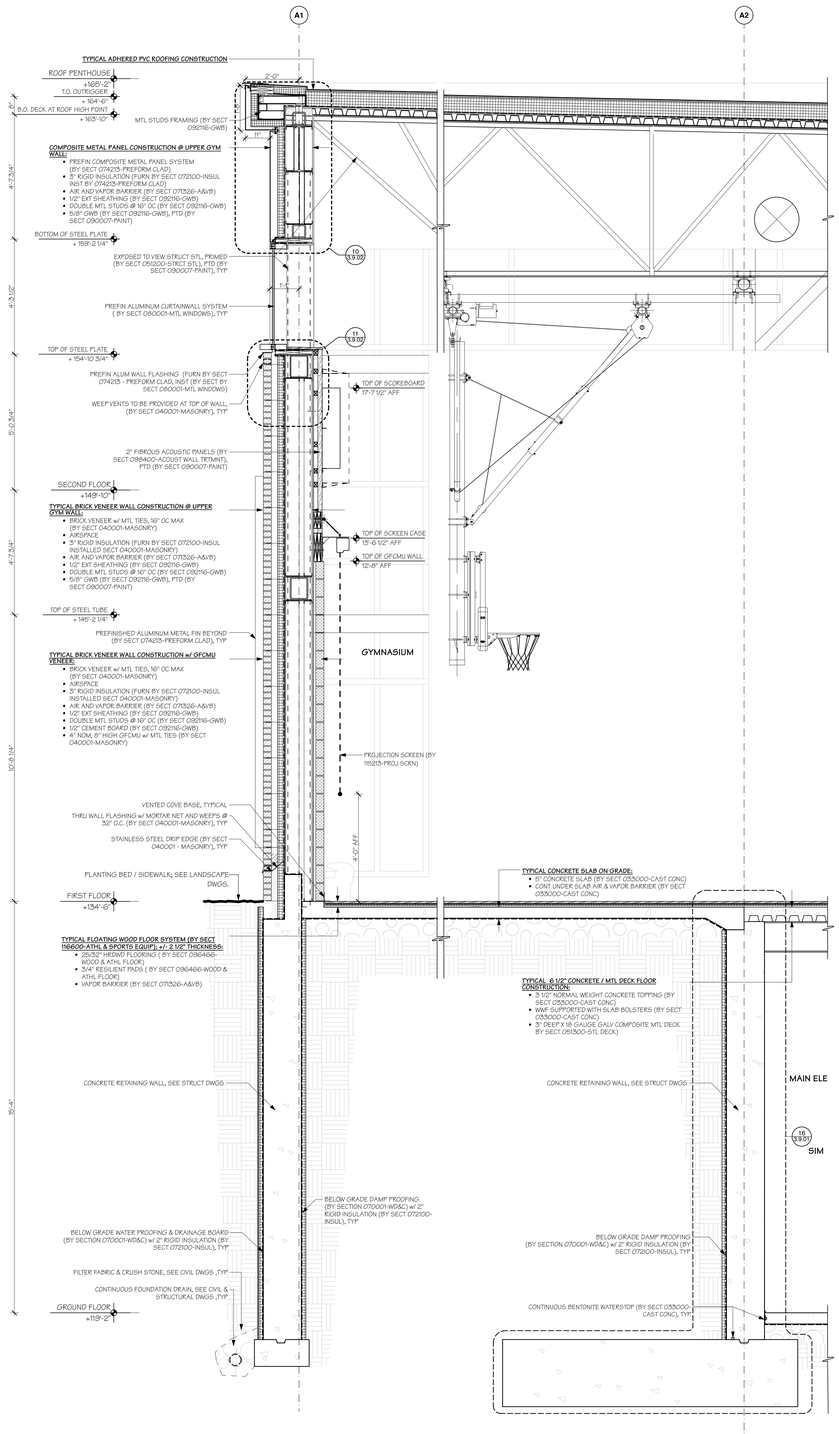
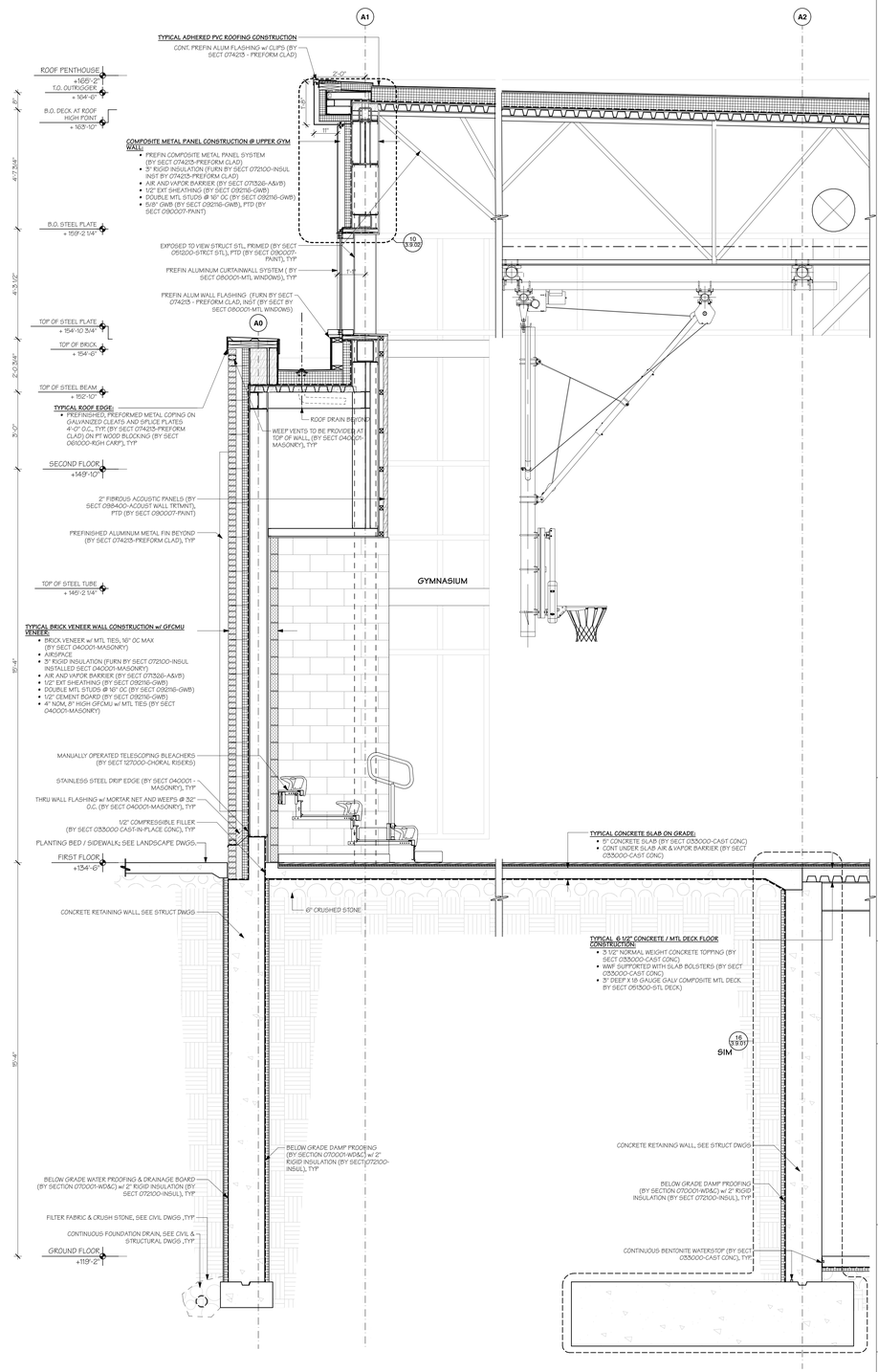


1 **Wall Section at Curtainwall Sidelite& FRC Panel**
SCALE: 1/2" = 1'-0"



2 **Wall Section Gym**
SCALE: 1/2" = 1'-0"



3 **Wall Section Gym at Bleacher**
SCALE: 1/2" = 1'-0"

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Revisions

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Wall Sections

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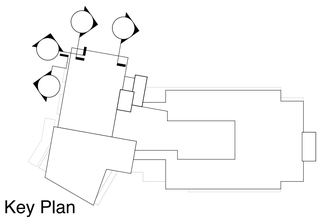

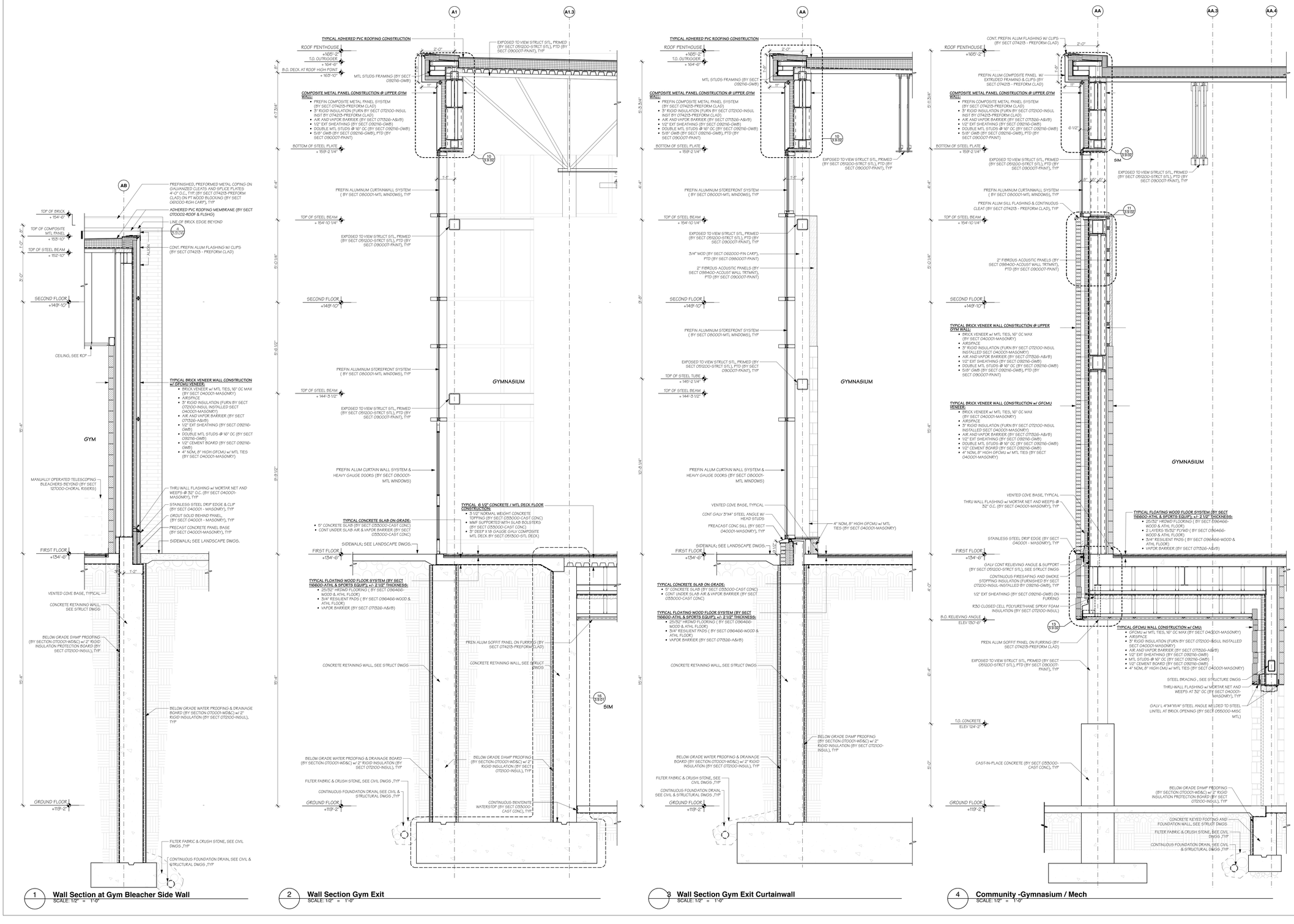

1 **Wall Section at Gym Bleacher Side Wall**
SCALE: 1/2" = 1'-0"

2 **Wall Section Gym Exit**
SCALE: 1/2" = 1'-0"

3 **Wall Section Gym Exit Curtainwall**
SCALE: 1/2" = 1'-0"

4 **Community -Gymnasium / Mech**
SCALE: 1/2" = 1'-0"

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KEY PLAN

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Revisions

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Wall Sections

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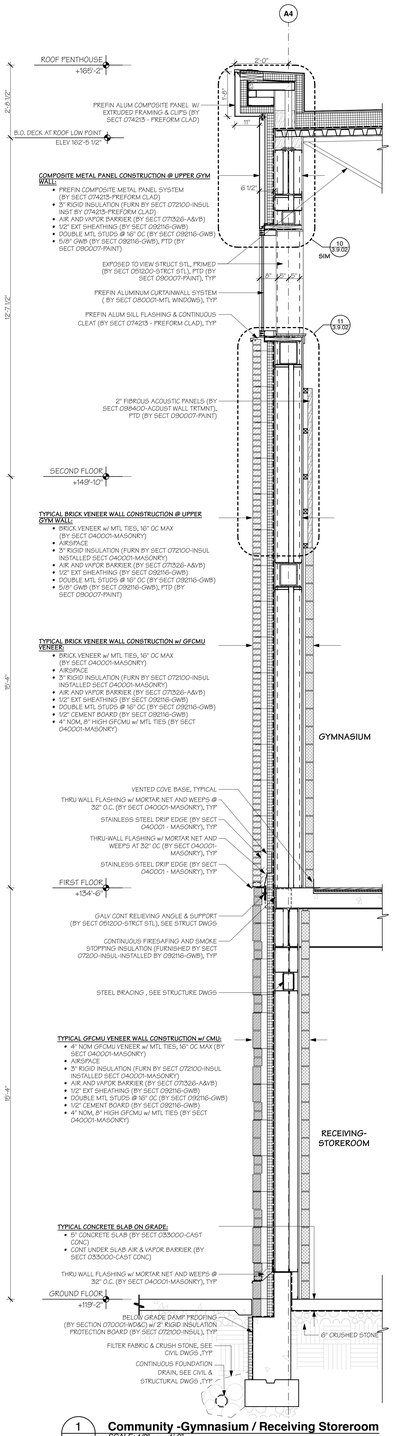
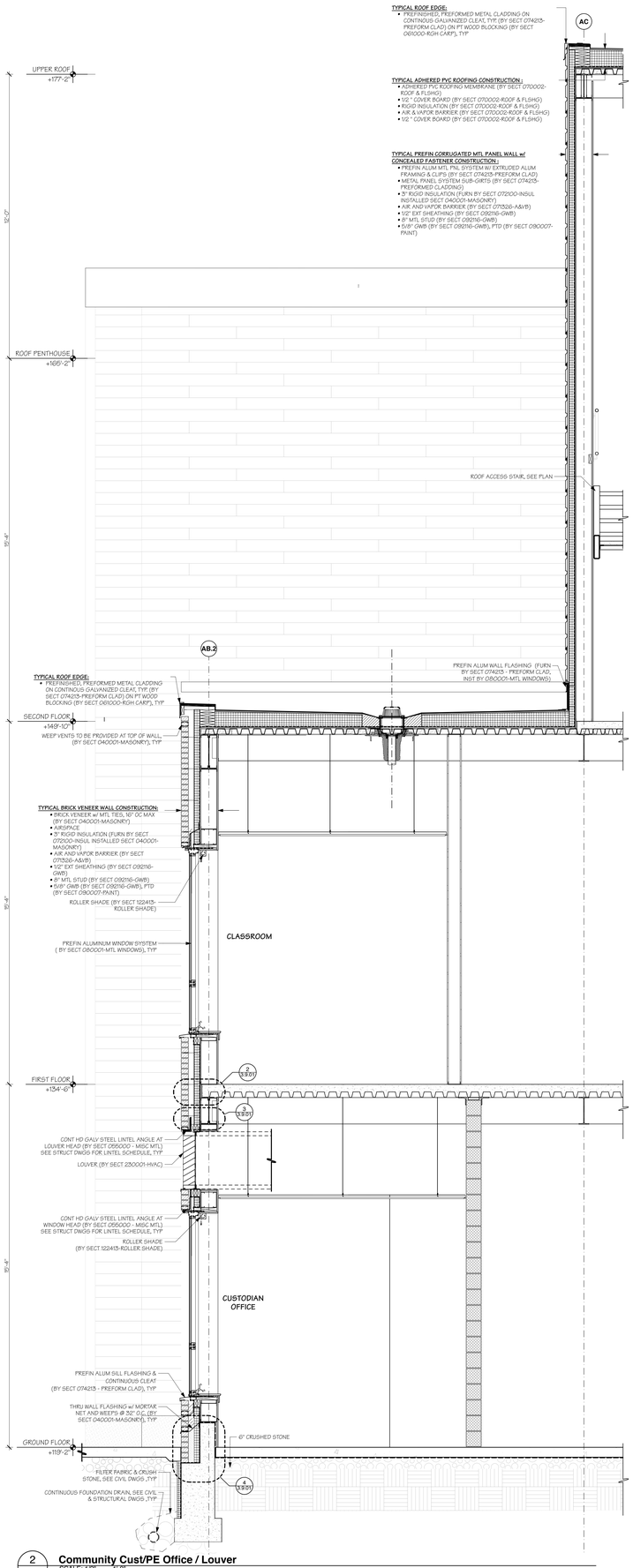
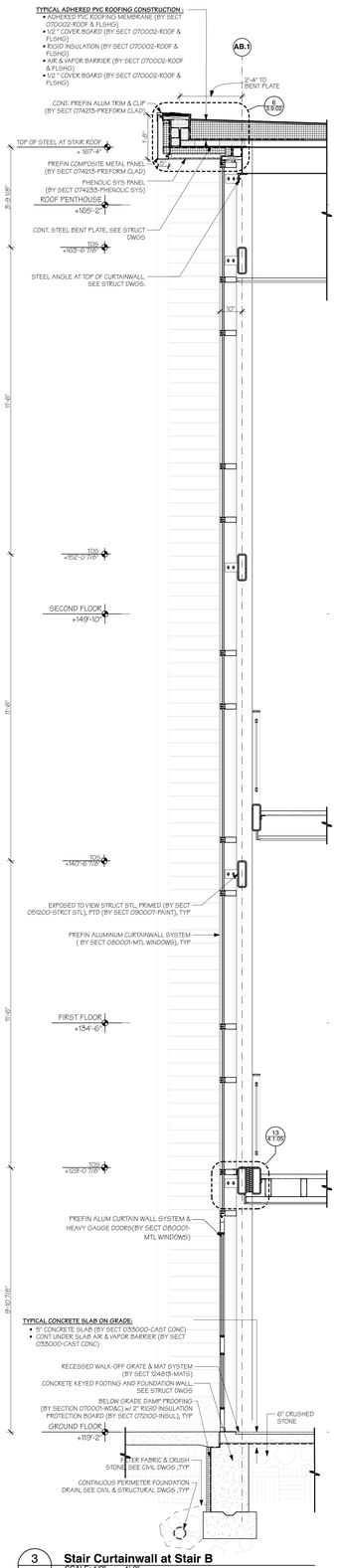


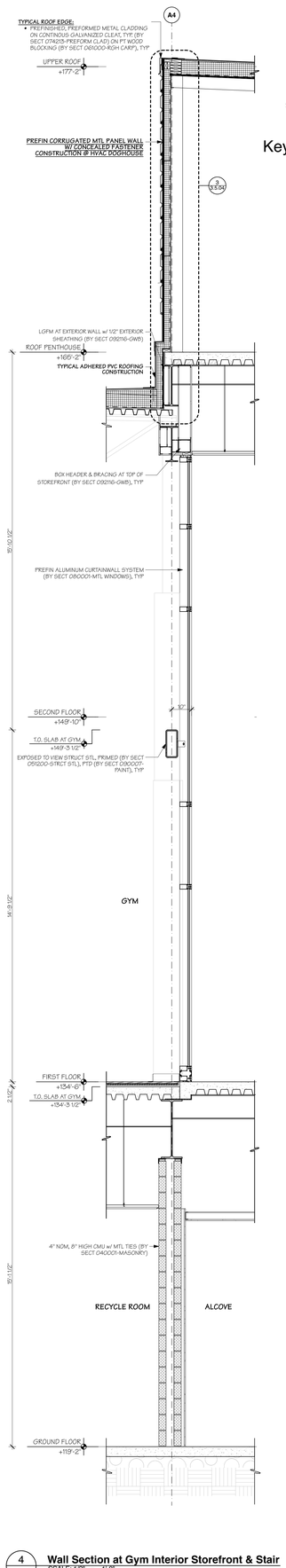
1 **Community -Gymnasium / Receiving Storeroom**
SCALE: 1/2" = 1'-0"



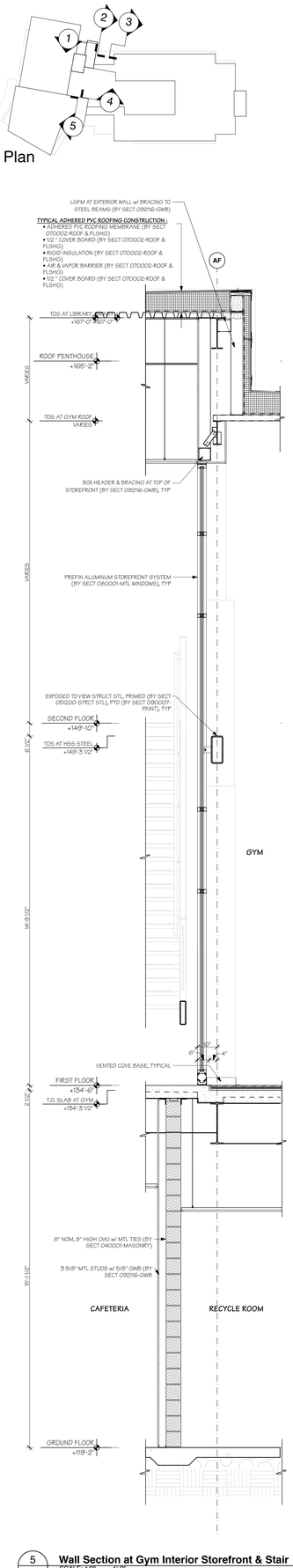
2 **Community Cust/PE Office / Louver**
SCALE: 1/2" = 1'-0"



3 **Stair Curtainwall at Stair B**
SCALE: 1/2" = 1'-0"



4 **Wall Section at Gym Interior Storefront & Stair**
SCALE: 1/2" = 1'-0"



5 **Wall Section at Gym Interior Storefront & Stair**
SCALE: 1/2" = 1'-0"

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KEY PLAN

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Revisions

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60% COST ESTIMATE SET

Wall Sections

3.8.08

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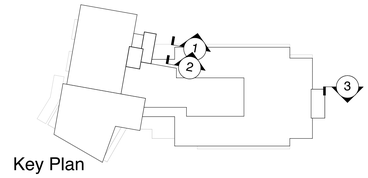
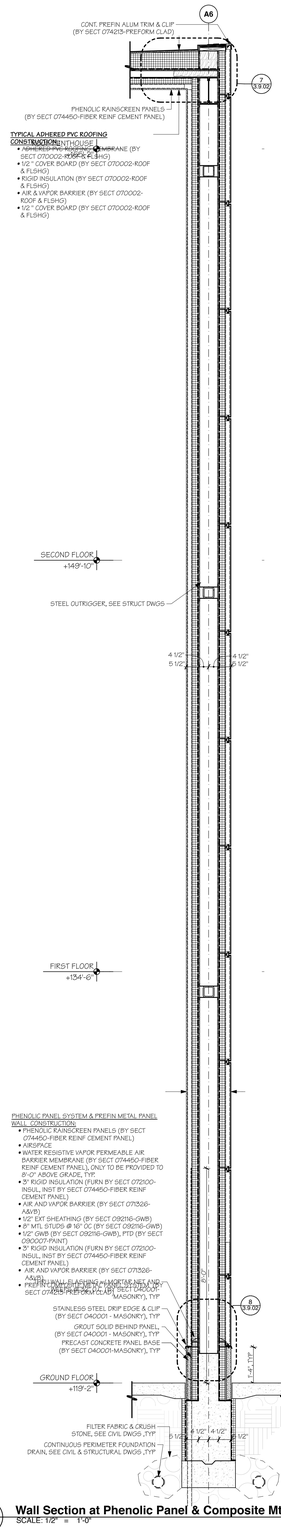
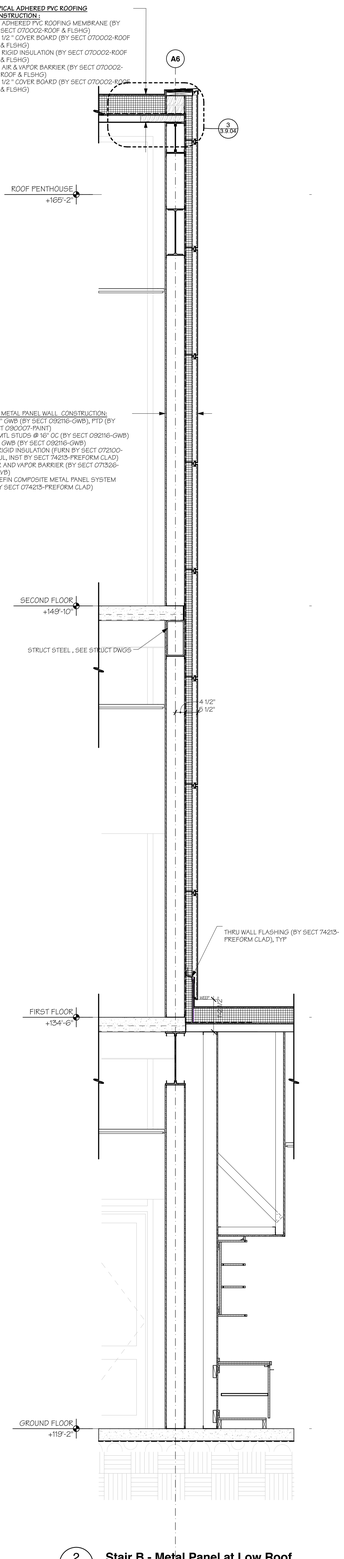


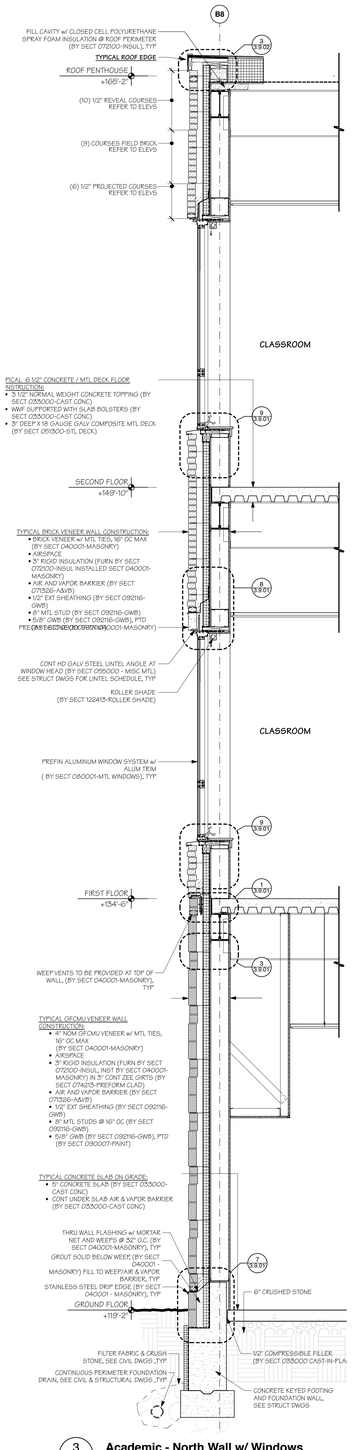
Key Plan



1 **Wall Section at Phenolic Panel & Composite Mtl Panel**
SCALE: 1/2" = 1'-0"



2 **Stair B - Metal Panel at Low Roof**
SCALE: 1/2" = 1'-0"



3 **Academic - North Wall w/ Windows**
SCALE: 1/2" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: JC

Scale: 0 2 4

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Wall Sections

3.8.09

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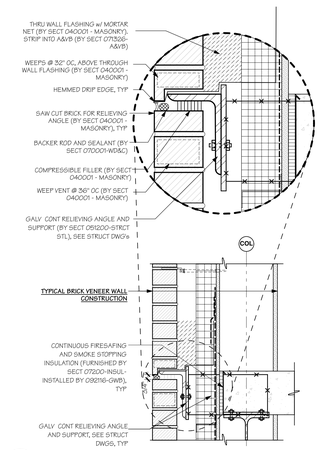
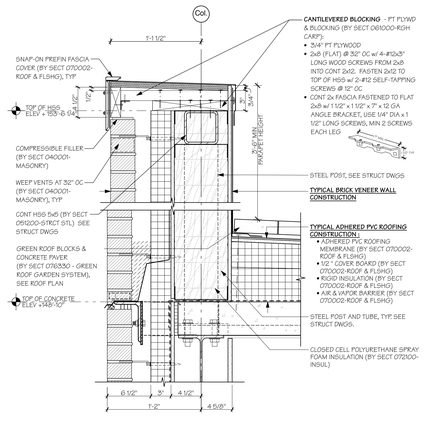
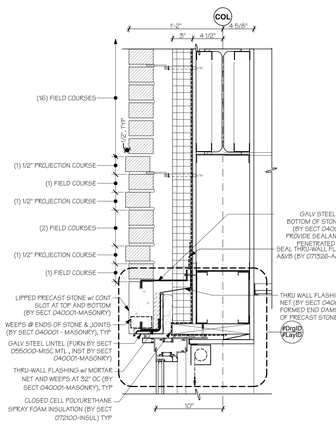


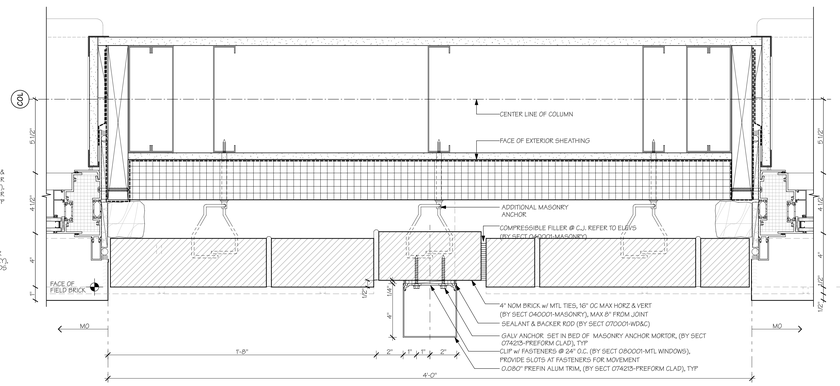
1 TYP **Relieving Angle @ Brick Veneer**
SCALE: 1 1/2"= 1'-0"



5 TYP **Parapet with Brick Veneer**
SCALE: 1 1/2"= 1'-0"



8 TYP **Recessed Accent Brick at Top of Window**
SCALE: 1 1/2"= 1'-0"



13 TYP **Academic - Aluminum Snap Trim at Brick Reveal**
SCALE: 3" = 1'-0"

2 TYP **Floor Slab Edge Detail**
SCALE: 3" = 1'-0"

6 TYP **Brick Veneer Base Flashing at Roof**
SCALE: 1 1/2"= 1'-0"

9 TYP **Recessed Accent Brick at Bottom of Window**
SCALE: 1 1/2"= 1'-0"

14 TYP **Curtainwall at T.O. Precast Conc Sill & Panel**
SCALE: 1 1/2"= 1'-0"

11 TYP **Control Joint @ Brick Veneer**
SCALE: 3" = 1'-0"

12 TYP **Control Joint @ GFCMU**
SCALE: 3" = 1'-0"

3 TYP **Deflection Track @ Ext Wall**
SCALE: 3" = 1'-0"

4 TYP **Brick Veneer @ Foundation Wall**
SCALE: 1 1/2"= 1'-0"

7 TYP **GFCMU Veneer at Foundation**
SCALE: 1 1/2"= 1'-0"

10 TYP **GFCMU w/ CMU Wall at Foundation**
SCALE: 1 1/2"= 1'-0"

15 TYP **Foundation Damp Proofing at Column**
SCALE: 1 1/2"= 1'-0"

16 TYP **Waterproofing at Retaining Wall**
SCALE: 1 1/2"= 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: JC/CF

Scale: 0 8" 16"

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Construction Details Exterior

3.9.01

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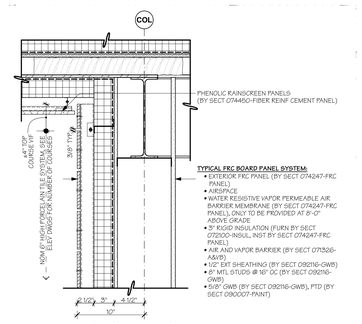
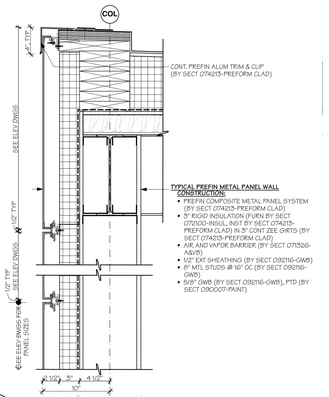
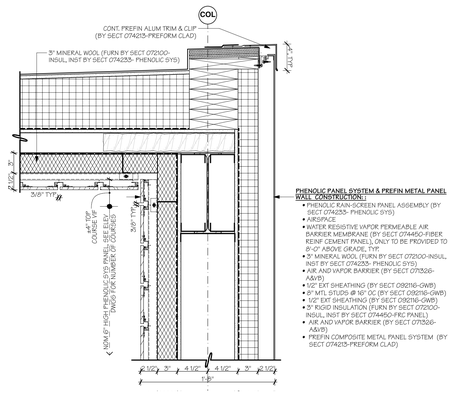


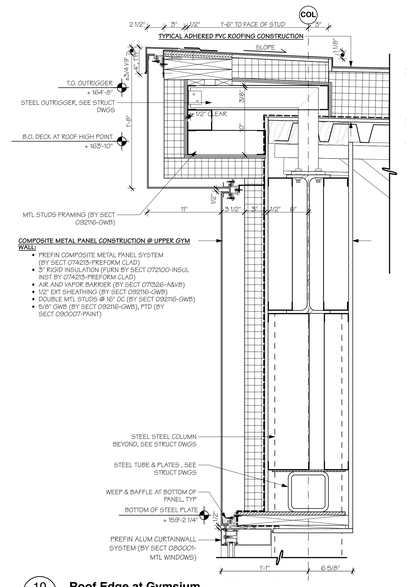
1 TYP **FRC Panel at Roof Soffit**
SCALE: 1 1/2"= 1'-0"



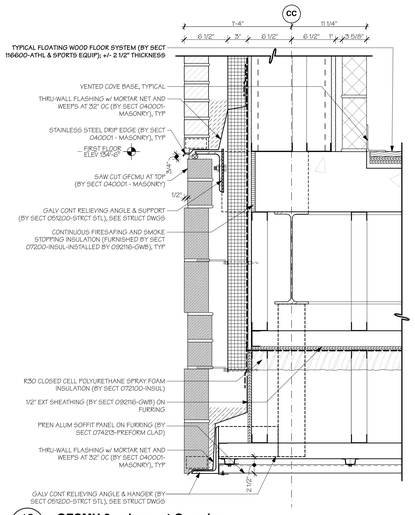
4 TYP **Compsite Mtl Panel at Stair Roof**
SCALE: 1 1/2"= 1'-0"



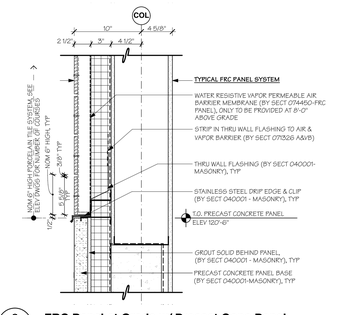
7 TYP **Phenolic Sys Panel at Stair Roof**
SCALE: 1 1/2"= 1'-0"



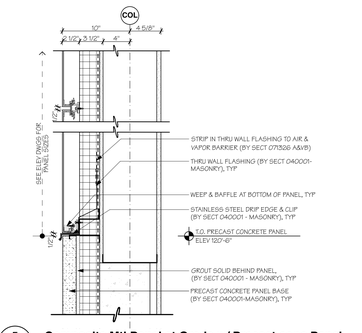
10 TYP **Roof Edge at Gymsium**
SCALE: 1 1/2"= 1'-0"



13 TYP **GFCMU 0verhang at Gymsium**
SCALE: 1 1/2"= 1'-0"



2 TYP **FRC Panel at Grade w/ Precast Conc Panel**
SCALE: 1 1/2"= 1'-0"



5 TYP **Composite Mtl Panel at Grade w/ Precast conc Panel**
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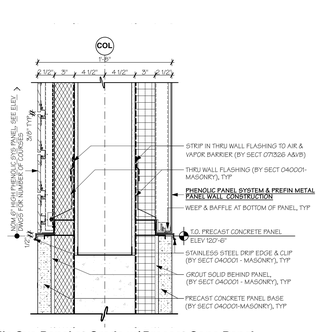
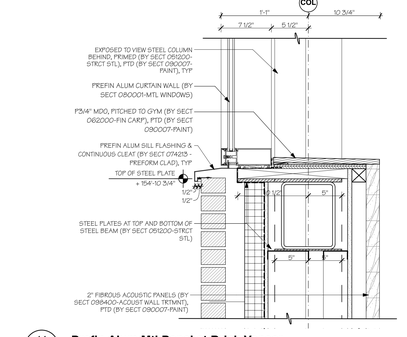
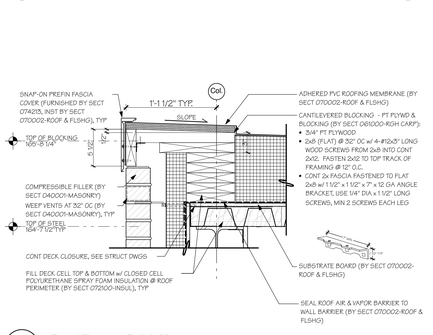


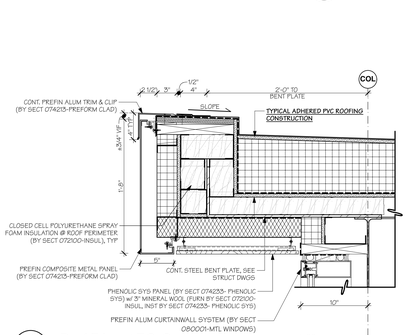
8 TYP **Phenolic Sys Panel at Grade w/ Precast Conc Panel**
SCALE: 1 1/2"= 1'-0"



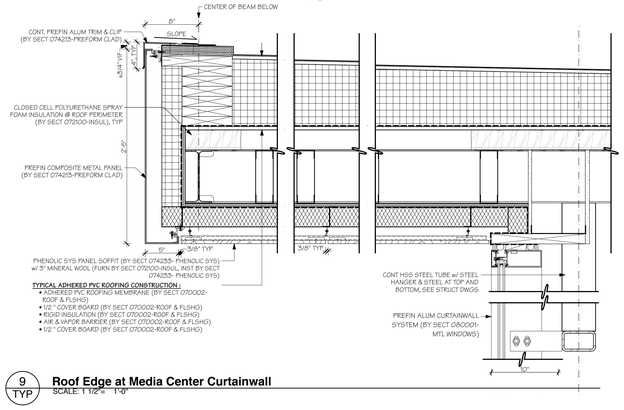
11 TYP **Prefin Alum Mtl Panel at Brick Veneer**
SCALE: 1 1/2"= 1'-0"



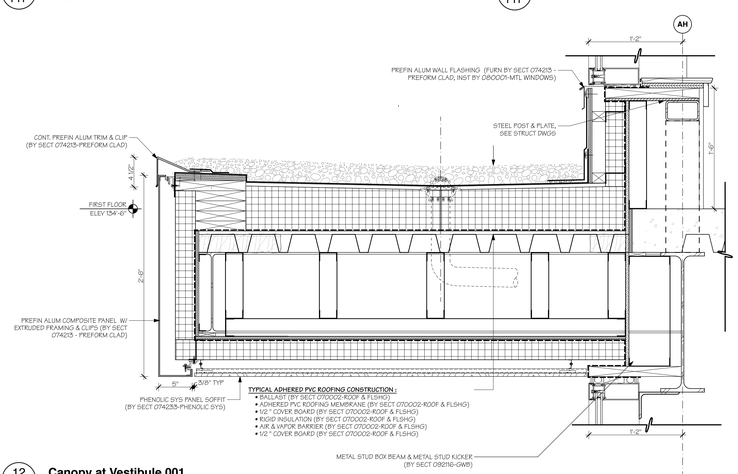
3 TYP **Roof Eave at Brick Veneer**
SCALE: 1 1/2"= 1'-0"



6 TYP **Roof Edge at T.O. Curtainwall**
SCALE: 1 1/2"= 1'-0"



9 TYP **Roof Edge at Media Center Curtainwall**
SCALE: 1 1/2"= 1'-0"



12 TYP **Canopy at Vestibule 001**
SCALE: 1 1/2"= 1'-0"

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KEY PLAN

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Date: 15 MAY 2020

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Scale: 0 8" 16"

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Construction Details Exterior

3.9.02

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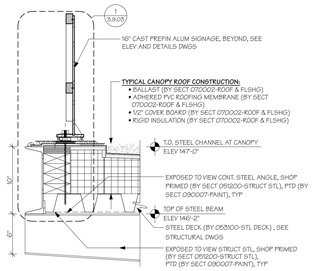
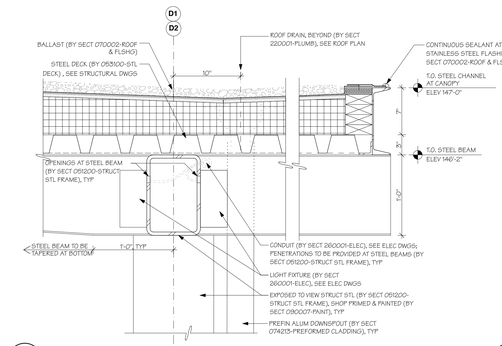
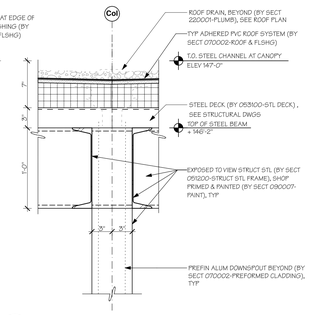


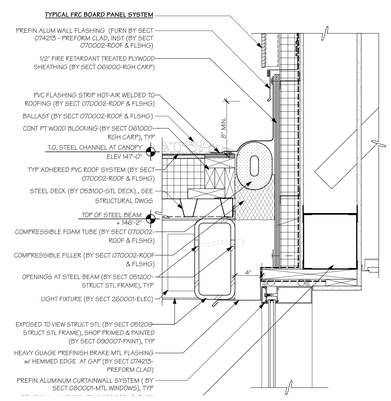
1 TYP **Canopy Edge Detail**
SCALE: 1 1/2"= 1'-0"



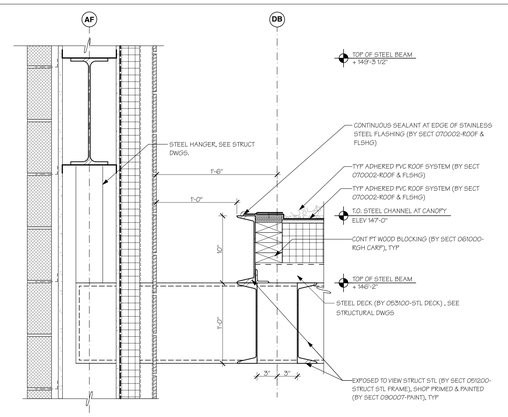
2 TYP **Canopy Detail at Steel Beam**
SCALE: 1 1/2"= 1'-0"



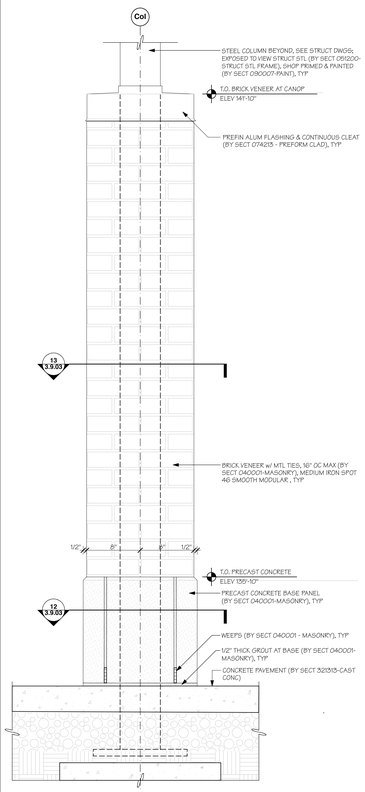
3 TYP **CanopyDetail at Steel Column**
SCALE: 1 1/2"= 1'-0"



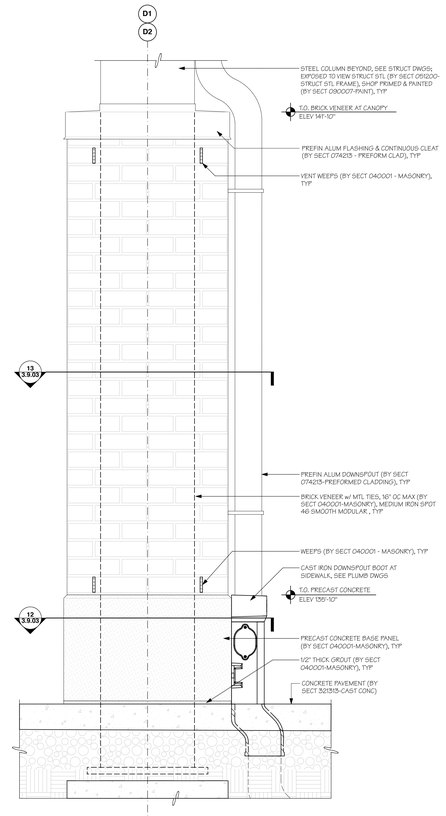
4 TYP **Canopy Edge Detail at Curtainwall**
SCALE: 1 1/2"= 1'-0"



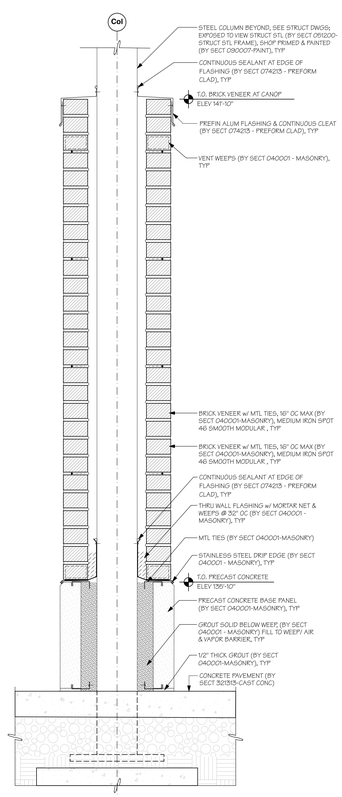
5 **Canopy Edge Detail**
SCALE: 1 1/2"= 1'-0"



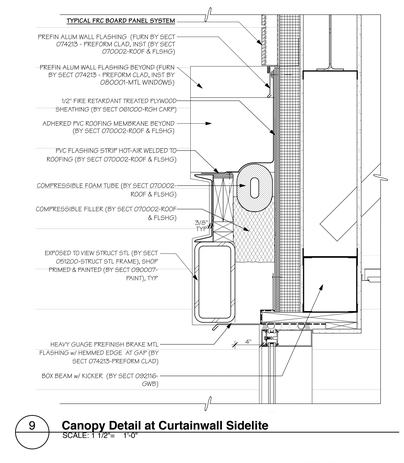
6 TYP **Column Base at Canopy - Front view**
SCALE: 1 1/2"= 1'-0"



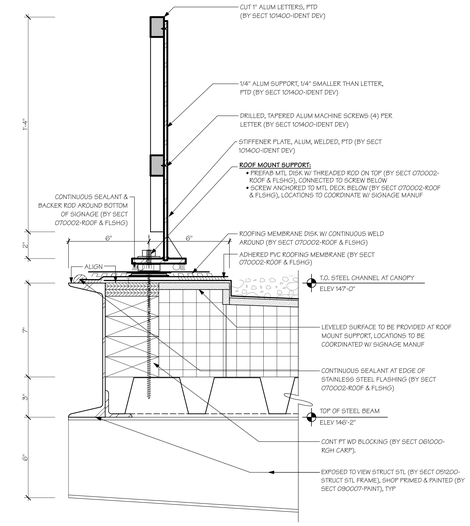
7 TYP **Column Base at Canopy - Side View**
SCALE: 1 1/2"= 1'-0"



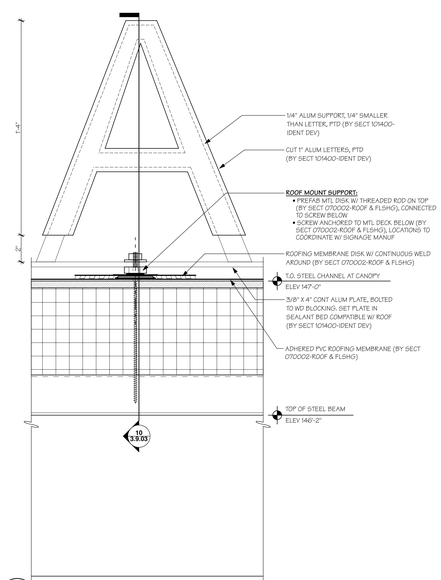
8 TYP **Column Base at Canopy - Section**
SCALE: 1 1/2"= 1'-0"



9 **Canopy Detail at Curtainwall Sidelite**
SCALE: 1 1/2"= 1'-0"



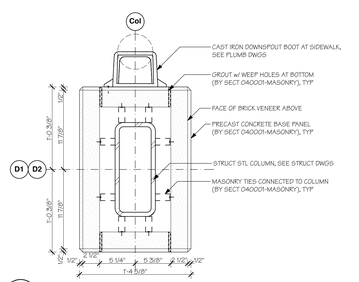
10 TYP **Section at Entry Signage on Canopy**
SCALE: 3" = 1'-0"



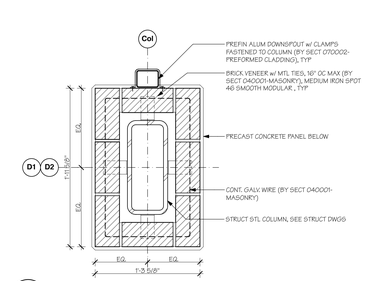
11 TYP **Enlarged Elevation at Entry Signage**
SCALE: 3" = 1'-0"



14 **Entry Signage Elevation**
SCALE: 3/4" = 1'-0"



12 TYP **Column Plan Detail at Precast Concrete Panel**
SCALE: 1 1/2"= 1'-0"



13 TYP **Column Plan Detail at Brick Veneer**
SCALE: 1 1/2"= 1'-0"

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KEY PLAN

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Revisions

Number	Date	Description

60% COST ESTIMATE SET

Construction Details Exterior

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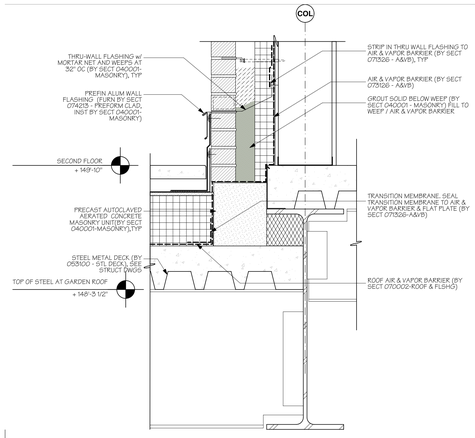
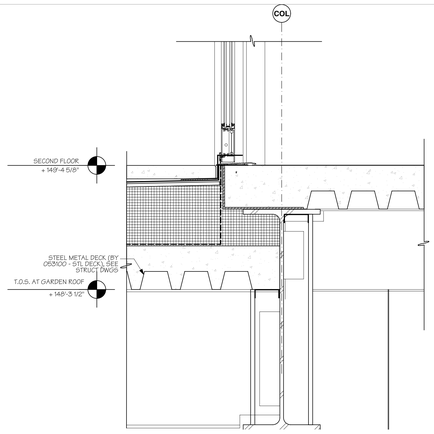
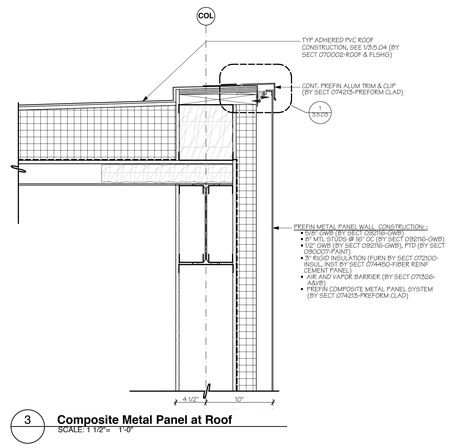


1 TYP **Brick Veneer Base Flashing @ Green Roof**
SCALE: 1 1/2" = 1'-0"



2 TYP **Threshold Detail @ Green Roof**
SCALE: 1 1/2" = 1'-0"



3 **Composite Metal Panel at Roof**
SCALE: 1 1/2" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

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Scale:

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Construction Details Exterior

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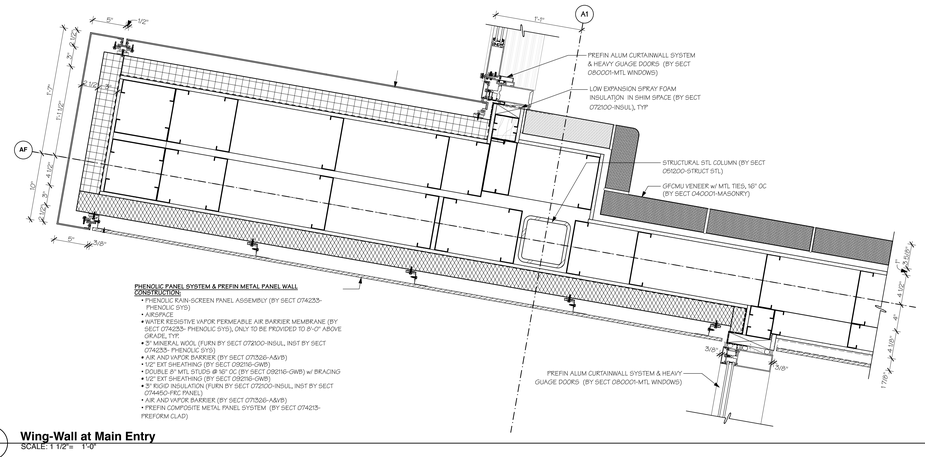
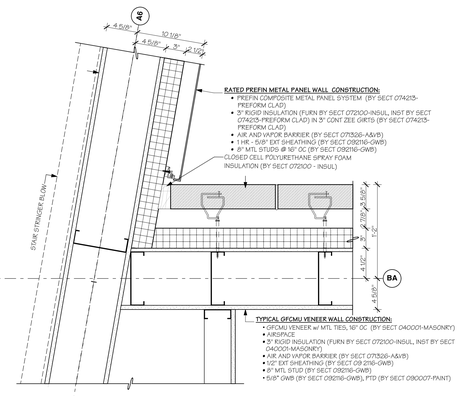
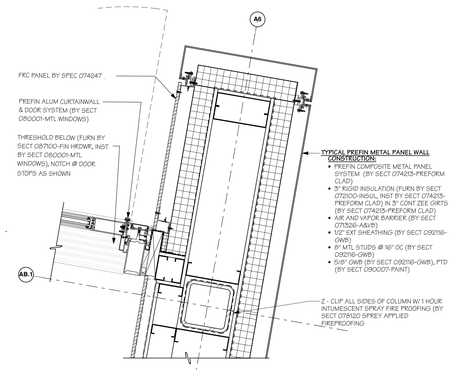


PHENOLIC PANEL SYSTEM & PREFIN METAL PANEL WALL CONSTRUCTION:
- PHENOLIC RAIN-SCREEN PANEL ASSEMBLY (BY SECT 074253- PHENOLIC SYS)
- AIRSPACE
- WATER RESISTIVE VAPOR PERMEABLE AIR BARRIER MEMBRANE (BY SECT 074253- PHENOLIC SYS), ONLY TO BE PROVIDED TO 8'-0" ABOVE GRADE, TYP.
- 5" MINERAL WOOL (FURN BY SECT 072100-INSUL, INST BY SECT 074253- PHENOLIC SYS)
- AIR AND VAPOR BARRIER (BY SECT 075326- A&VB)
- 1/2" EXT SHEATHING (BY SECT 092116- GWB)
- DOUBLE 8" MTL STUDS @ 16" OC (BY SECT 092116- GWB) w/ BRACING
- 1/2" EXT SHEATHING (BY SECT 092116- GWB)
- 5" RIGID INSULATION (FURN BY SECT 072100-INSUL, INST BY SECT 074450-FRC PANEL)
- AIR AND VAPOR BARRIER (BY SECT 075326- A&VB)
- PREFIN COMPOSITE METAL PANEL SYSTEM (BY SECT 074215- PREFORM CLAD)

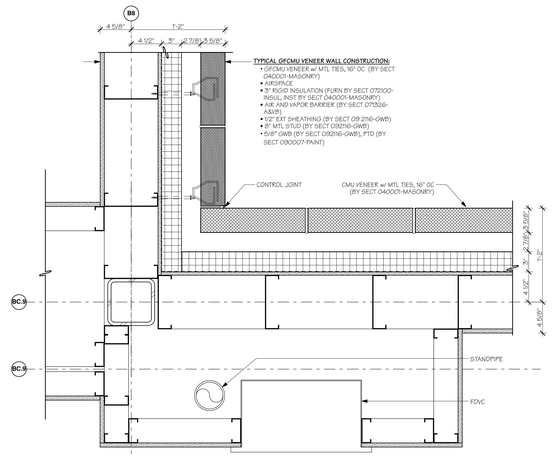
1 Wing-Wall at Main Entry
SCALE: 1 1/2" = 1'-0"



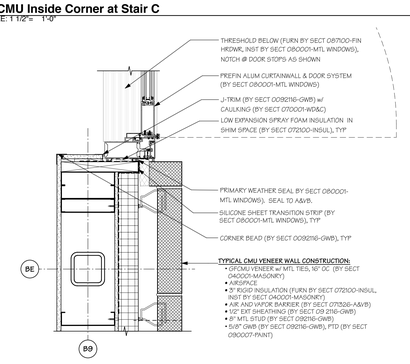
2 Inside Corner at Stair B
SCALE: 1 1/2" = 1'-0"



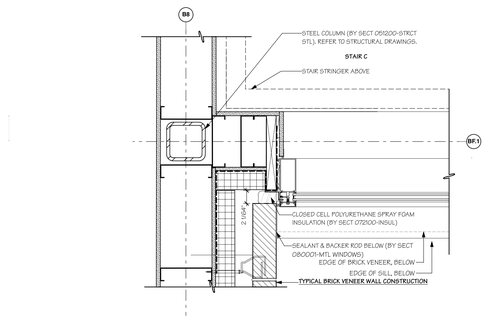
3 Wing-Wall at Stair B
SCALE: 1 1/2" = 1'-0"



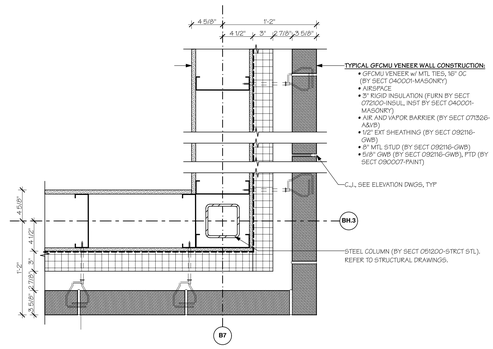
4 GFCMU Inside Corner at Stair C
SCALE: 1 1/2" = 1'-0"



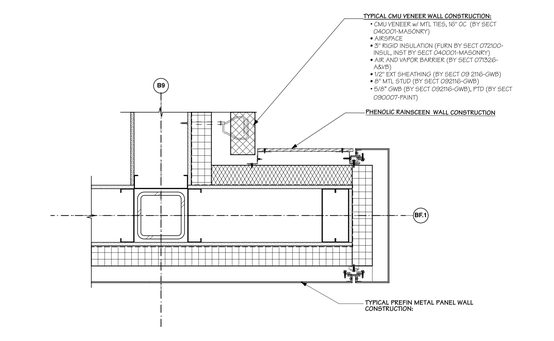
5 CMU Veneer at Stair C Curtainwall
SCALE: 1 1/2" = 1'-0"



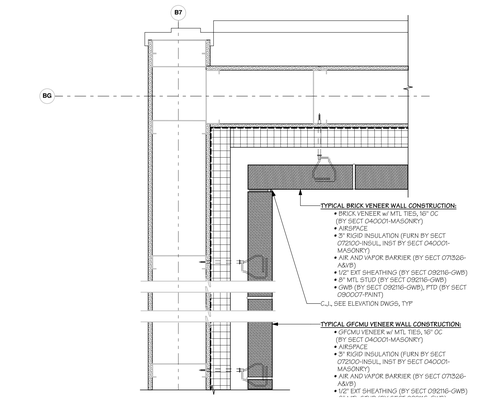
8 Curtainwall at Stair C
SCALE: 1:8.33



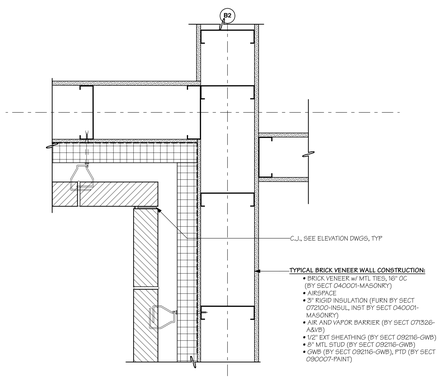
9 GFCMU Outside Corner
SCALE: 1 1/2" = 1'-0"



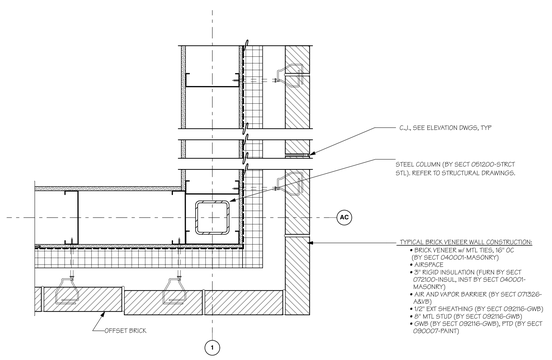
6 Wing-Wall at Stair C
SCALE: 1 1/2" = 1'-0"



10 GFCMU Brick Inside Corner
SCALE: 1 1/2" = 1'-0"



7 Brick Inside Corner
SCALE: 1 1/2" = 1'-0"



11 Brick Outside Corner
SCALE: 1 1/2" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

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Scale: 0 8" 16"

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Construction Details Exterior

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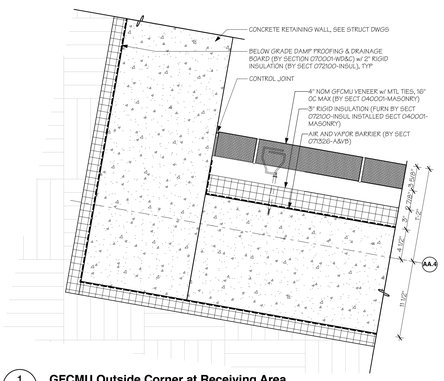
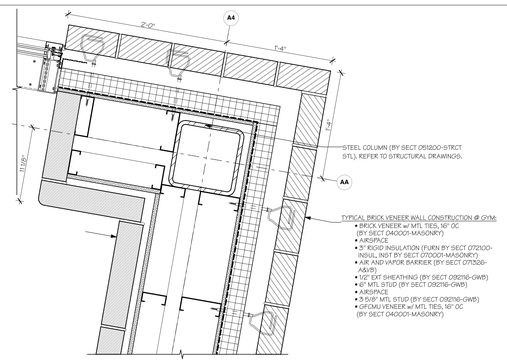
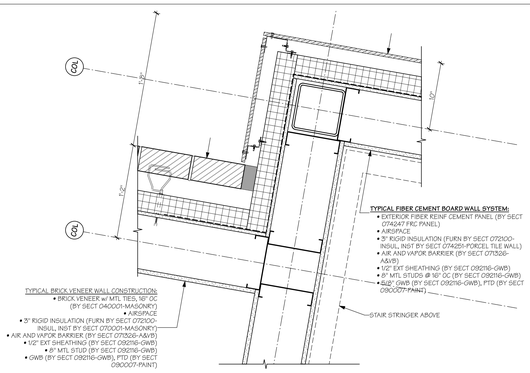


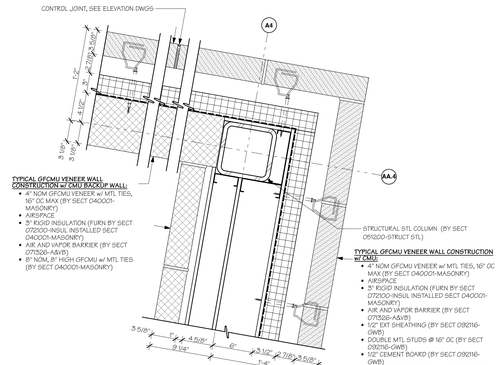
1 **GFCMU Outside Corner at Receiving Area**
SCALE: 1 1/2"= 1'-0"



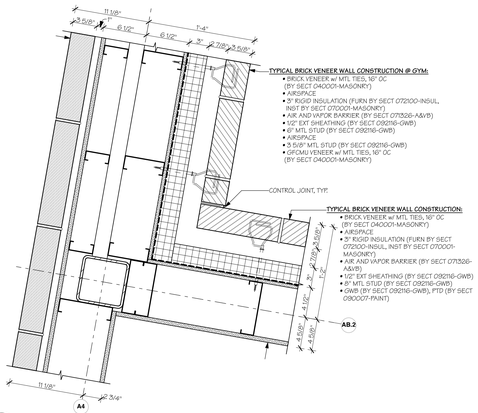
5 **Gym - Brick Outside Corner**
SCALE: 1 1/2"= 1'-0"



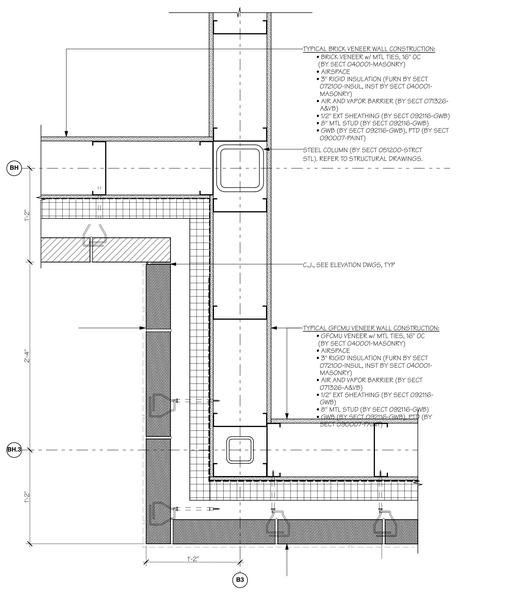
8 **Outside Corner at Stair B**
SCALE: 1 1/2"= 1'-0"



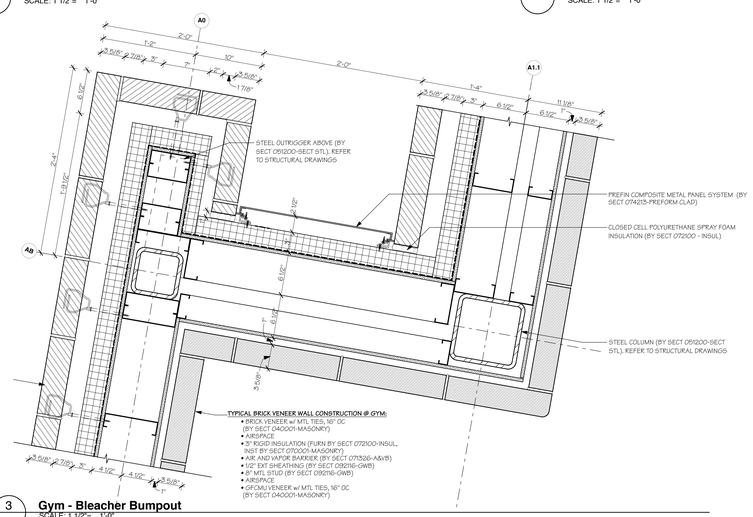
2 **GFCMU Outside Corner w/ CMU Back**
SCALE: 1 1/2"= 1'-0"



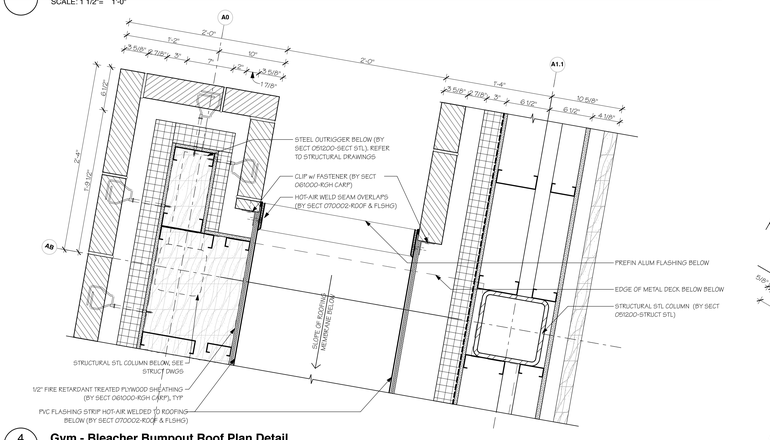
6 **Gym - Brick Inside Corner**
SCALE: 1 1/2"= 1'-0"



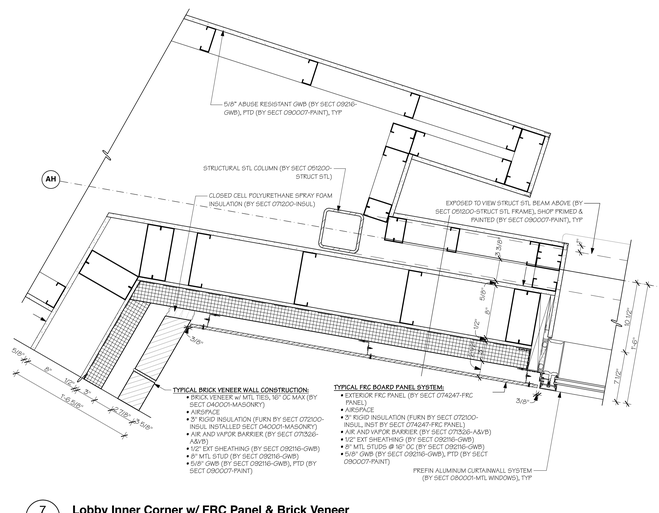
9 **GFCMU Return to Brick**
SCALE: 1 1/2"= 1'-0"



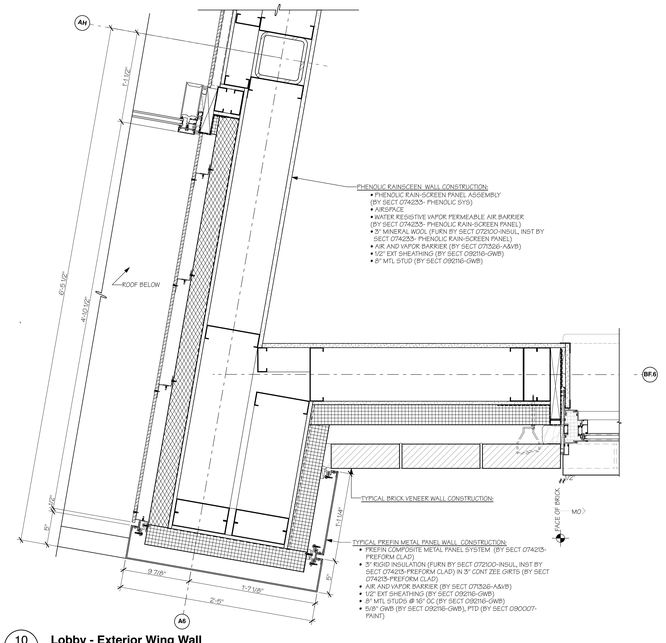
3 **Gym - Bleacher Bumpout**
SCALE: 1 1/2"= 1'-0"



4 **Gym - Bleacher Bumpout Roof Plan Detail**
SCALE: 1 1/2"= 1'-0"



7 **Lobby Inner Corner w/ FRC Panel & Brick Veneer**
SCALE: 1 1/2"= 1'-0"



10 **Lobby - Exterior Wing Wall**
SCALE: 1 1/2"= 1'-0"

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KEY PLAN

NORTH ARROW STAMP

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Drawn By: GB/JC

Scale: 0 8" 16"

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Construction Details Exterior

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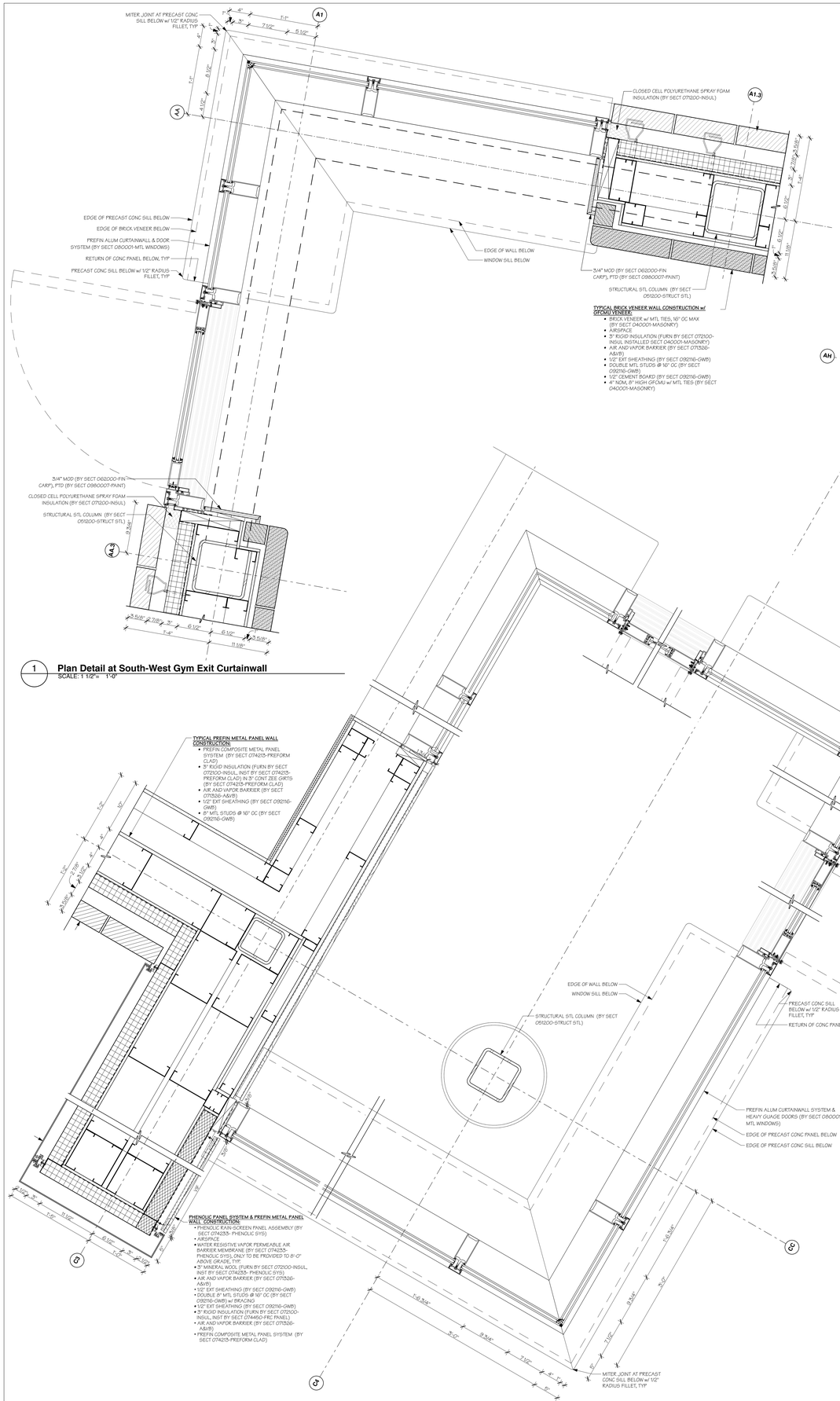
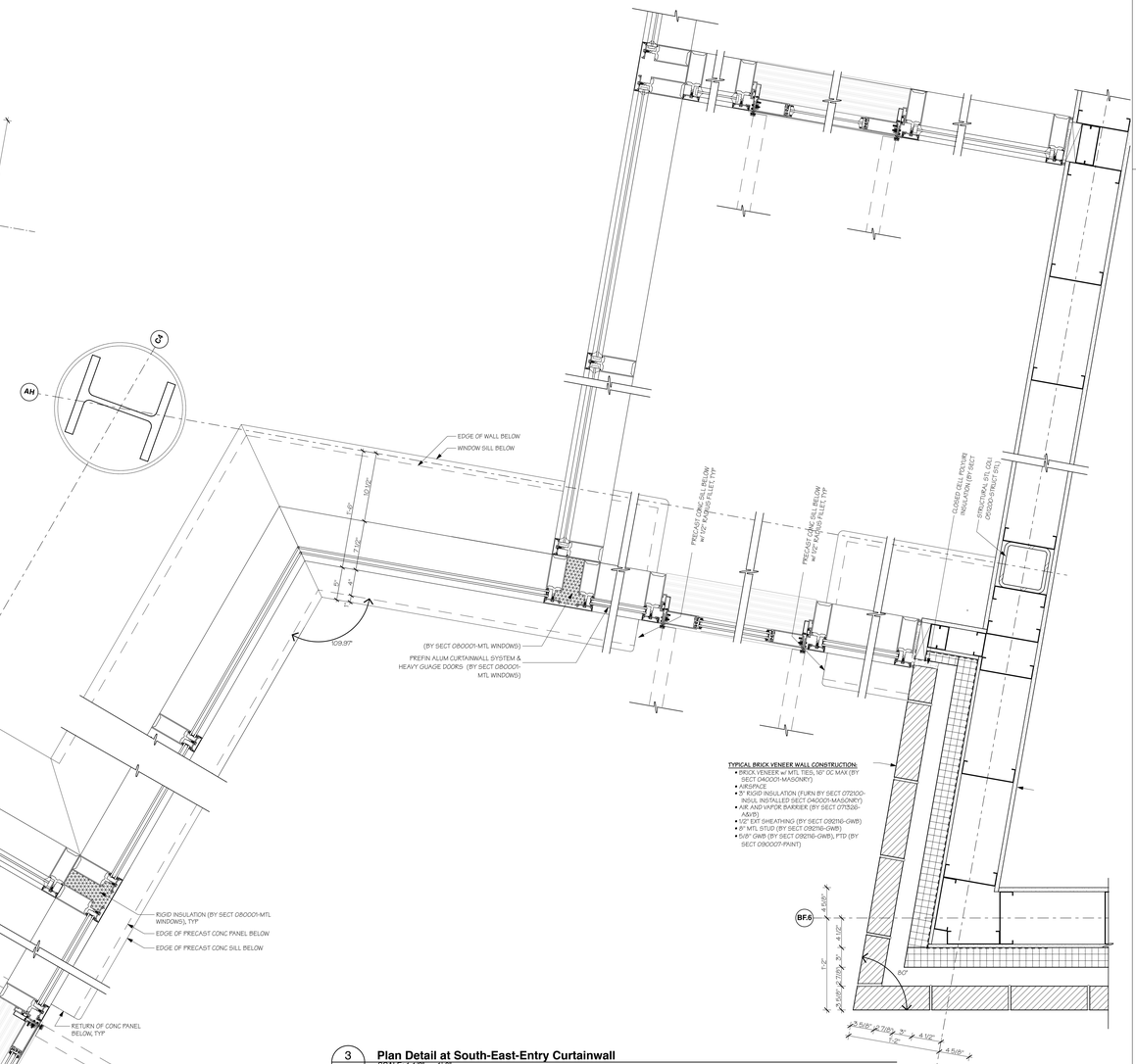
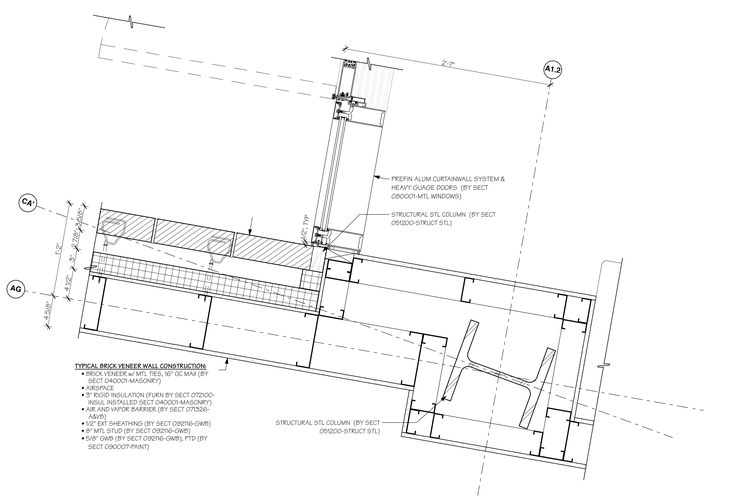


1 **Plan Detail at South-West Gym Exit Curtainwall**
SCALE: 1 1/2" = 1'-0"

2 **Plan Detail at Caferteria-Vestibule Curtainwall**
SCALE: 1 1/2" = 1'-0"



3 **Plan Detail at South-East-Entry Curtainwall**
SCALE: 1 1/2" = 1'-0"



4 **Brick Wing-Wall at Main Entry**
SCALE: 1 1/2" = 1'-0"

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KEY PLAN

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Revisions

Number	Date	Description

60% COST ESTIMATE SET

Construction Details Exterior

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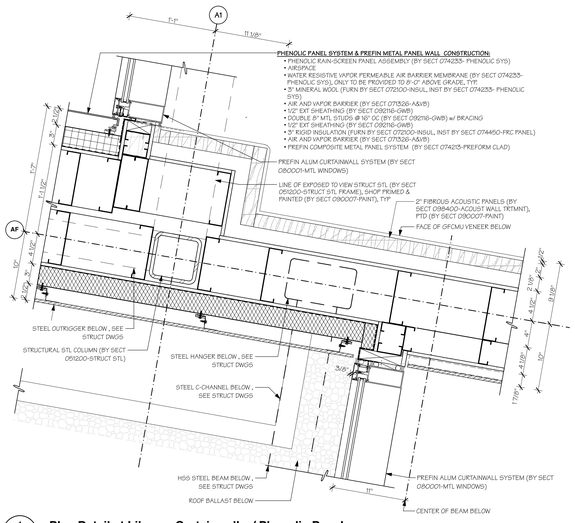
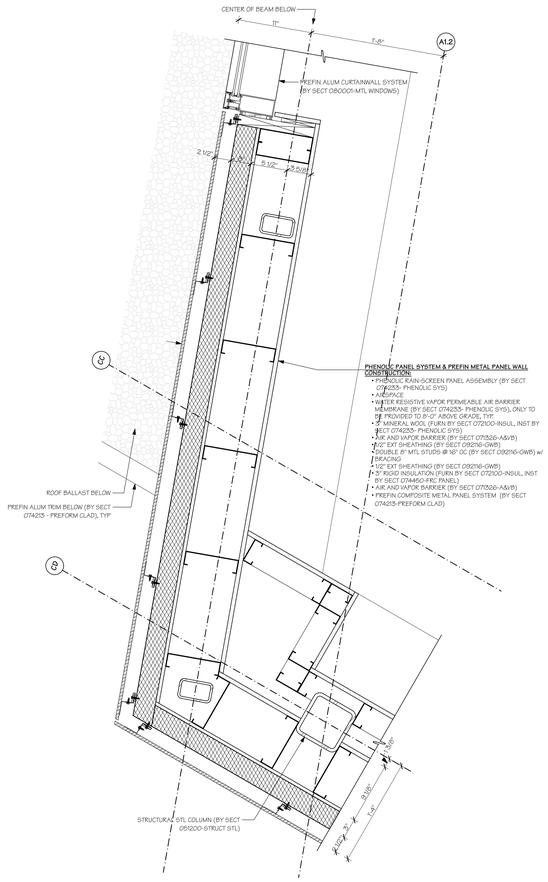


1 **Plan Detail at Library -Curtainwall w/ Phenolic Panel**
SCALE: 1 1/2"= 1'-0"



2 **Plan Detail at Library - FRC Panel Outer Corner**
SCALE: 1 1/2"= 1'-0"

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Revisions

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60% COST ESTIMATE SET

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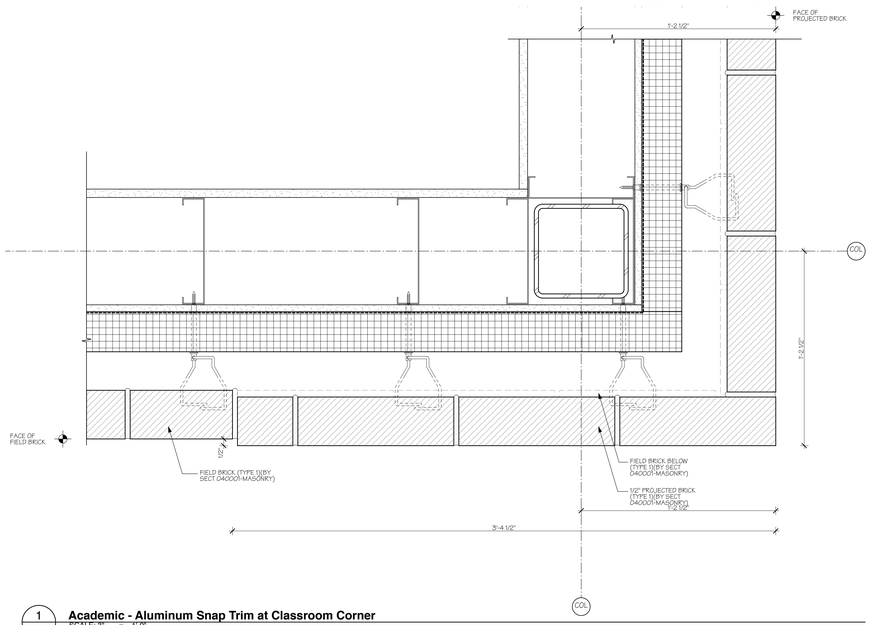
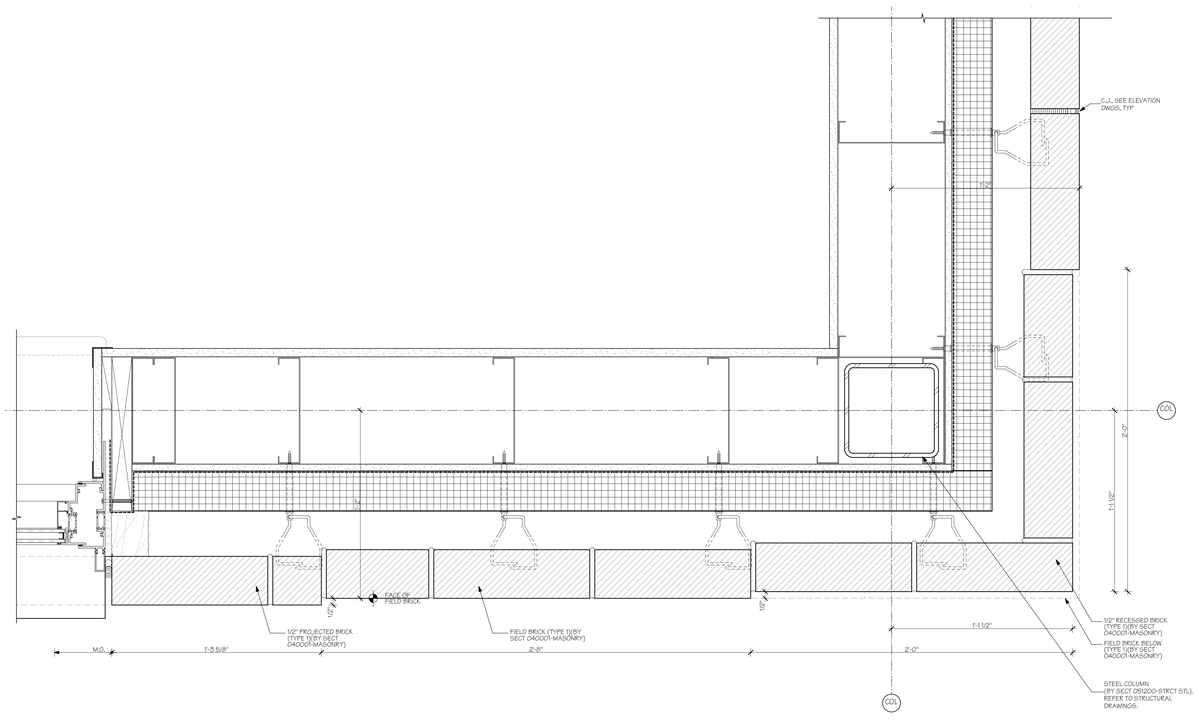


1 **Academic - Aluminum Snap Trim at Classroom Corner**
SCALE: 3" = 1'-0"



2 **EXT Recessed Brick at Classroom Corner**
SCALE: 3" = 1'-0"

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KEY PLAN

NORTH ARROW *STAMP*

Date: 15 MAY 2020

Drawn By:

Scale: 0 8" 16"

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Construction Details Exterior

3.9.09

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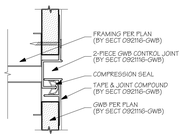
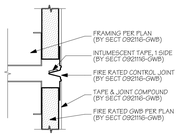
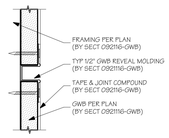


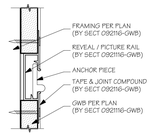
1 TYP **GWB Control Joint**
SCALE: 6" = 1'-0"



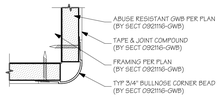
2 TYP **GWB Control Joint - Fire Rated**
SCALE: 6" = 1'-0"



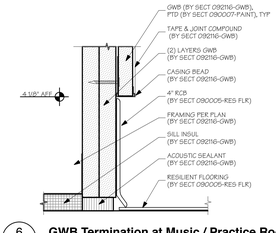
3 TYP **GWB Reveal**
SCALE: 6" = 1'-0"



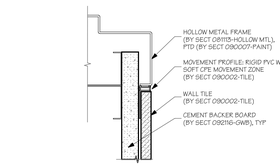
4 TYP **GWB Reveal / Picture Rail**
SCALE: 6" = 1'-0"



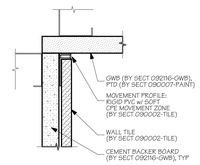
5 TYP **GWB Abuse Resistant Cornerbead**
SCALE: 6" = 1'-0"



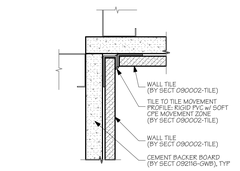
6 TYP **GWB Termination at Music / Practice Rooms**
SCALE: 6" = 1'-0"



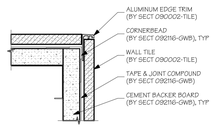
7 TYP **Tile Termination Strip at Door & Window Frames**
SCALE: 6" = 1'-0"



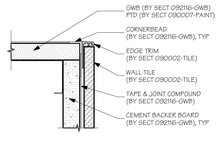
8 TYP **Tile Termination Strip at Inside Corner at GWB**
SCALE: 6" = 1'-0"



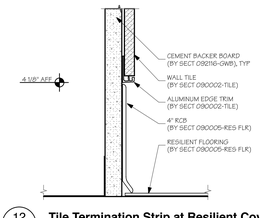
9 TYP **Tile Termination Strip at Inside Corner**
SCALE: 6" = 1'-0"



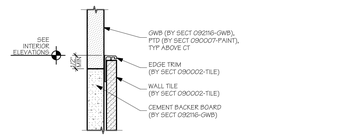
10 TYP **Tile Termination Strip at Outside Corner**
SCALE: 6" = 1'-0"



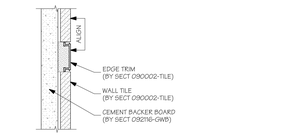
11 TYP **Tile Termination Strip at GWB Outside Corner**
SCALE: 6" = 1'-0"



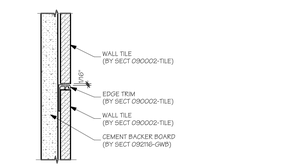
12 TYP **Tile Termination Strip at Resilient Cove Base**
SCALE: 6" = 1'-0"



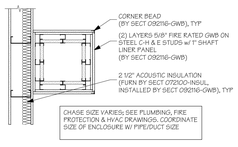
13 TYP **Tile Termination Strip at Tile Top + Side Edge**
SCALE: 6" = 1'-0"



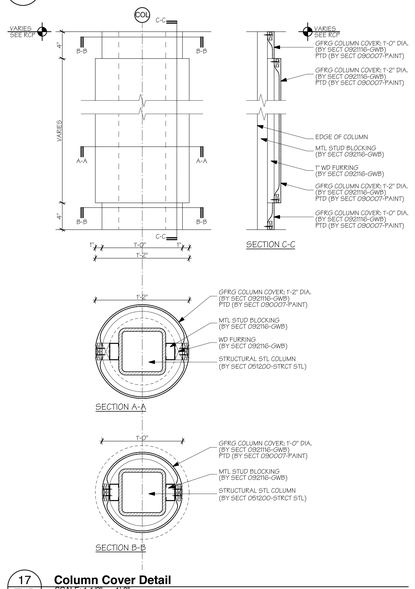
14 TYP **Tile Termination Strip at Feature Walls**
SCALE: 6" = 1'-0"



15 TYP **Tile Termination Strip Between Tiles**
SCALE: 6" = 1'-0"

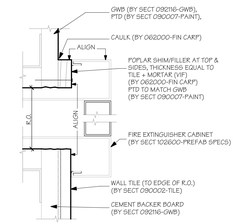


16 TYP **Shaft Construction**
SCALE: 3/4" = 1'-0"

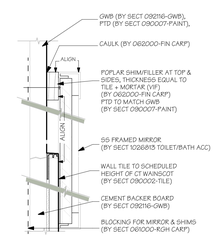


17 TYP **Column Cover Detail**
SCALE: 1 1/2" = 1'-0"

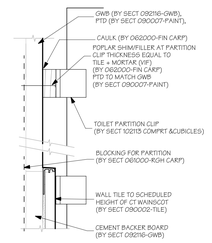
18 **Not Used**
SCALE: 1 1/2" = 1'-0"



19 TYP **GWB & Tile Wainscot Spanned by FEC**
SCALE: 6" = 1'-0"



20 TYP **GWB & Tile Wainscot spanned by Mirror**
SCALE: 6" = 1'-0"



21 TYP **GWB & Tile Wainscott at Toilet Compartment**
SCALE: 6" = 1'-0"

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KEY PLAN

NORTH ARROW *STAMP*

Date: 15 MAY 2020

Drawn By:

Scale: NTS

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Construction Details Interior

3.9.10

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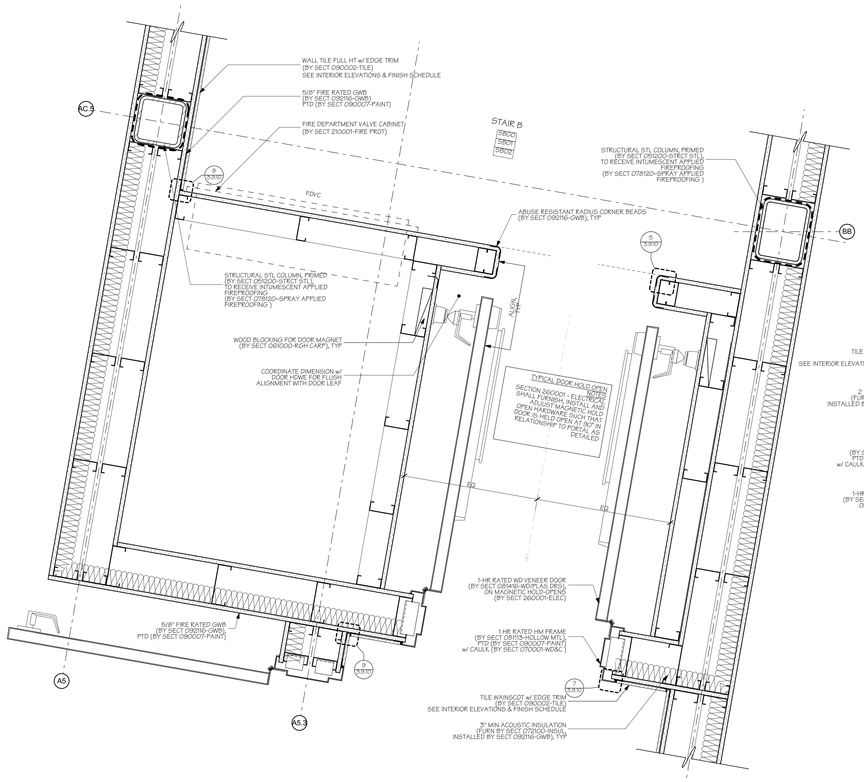
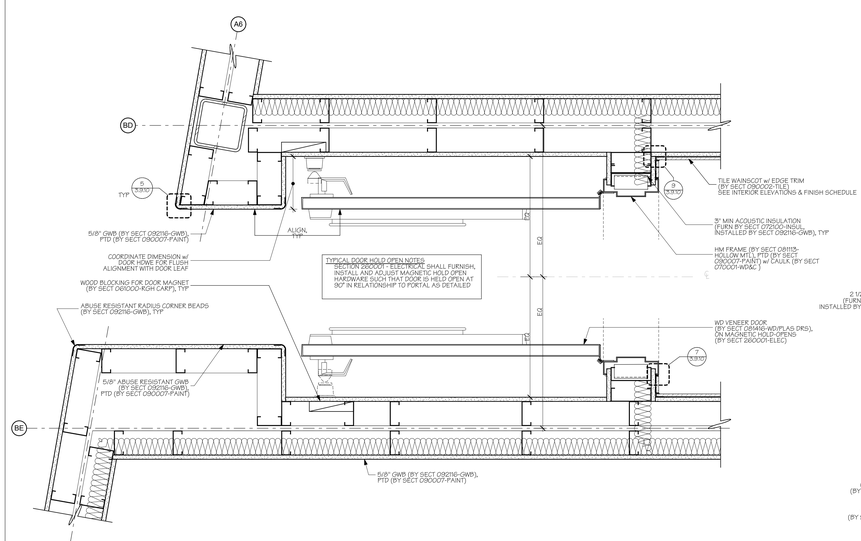


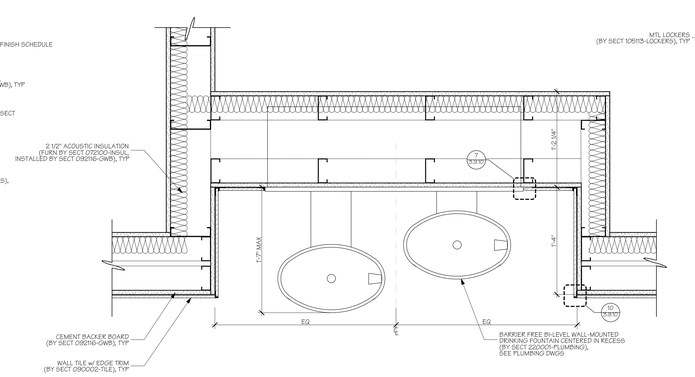
1 **Door Pocket Plan Detail at Stair B Ground Floor**
SCALE: 1 1/2"= 1'-0"

3 **Door Pocket Plan Detail at Stair C**
SCALE: 1 1/2"= 1'-0"

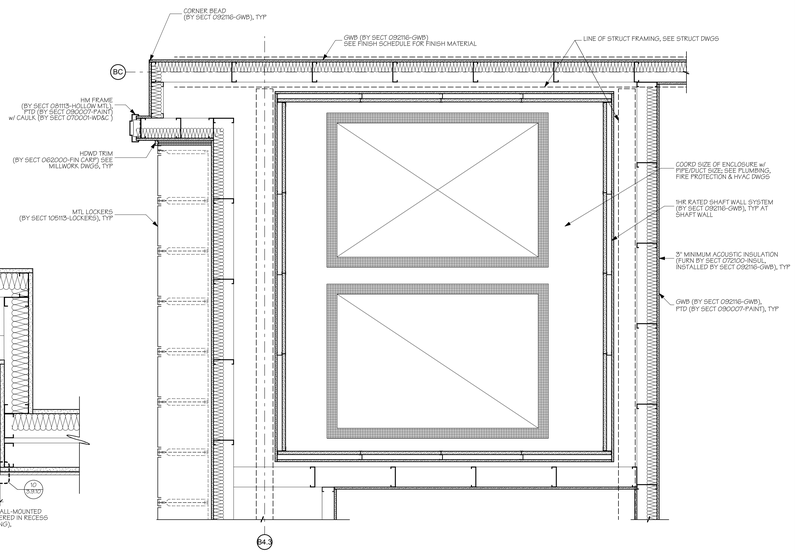
5 **SECOND FLOOR**
SCALE: 1 1/2"= 1'-0"



2 **GROUND FLOOR**
SCALE: 1 1/2"= 1'-0"



4 **Drinking Fountain Detail at C105**
SCALE: 1 1/2"= 1'-0"



6 **Mechanical Chase at SLP 149/249**
SCALE: 3/4" = 1'-0"

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KEY PLAN

NORTH ARROW STAMP

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Scale: AS NOTED

Revisions BS

Number	Date	Description

60% COST ESTIMATE SET

Construction Details Interior

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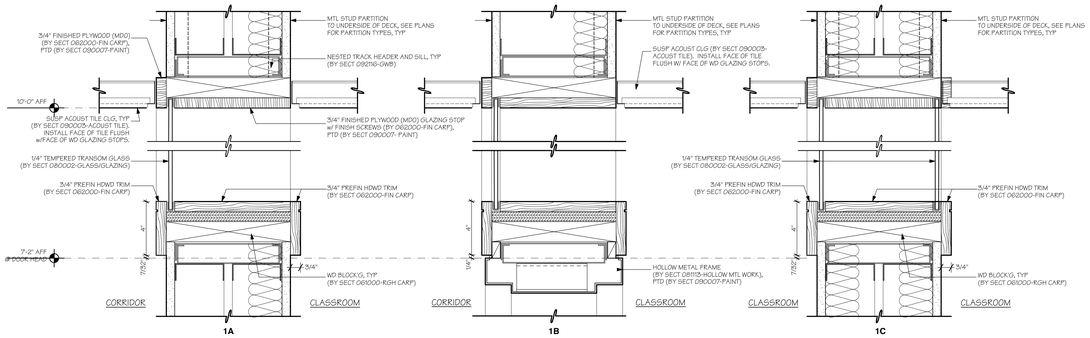
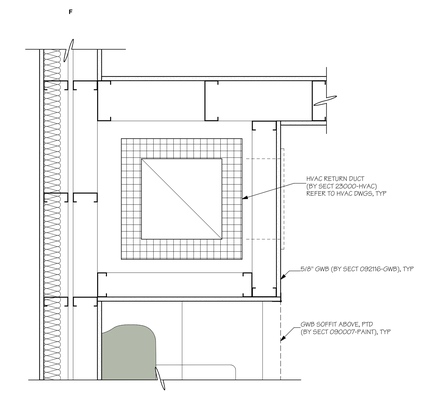
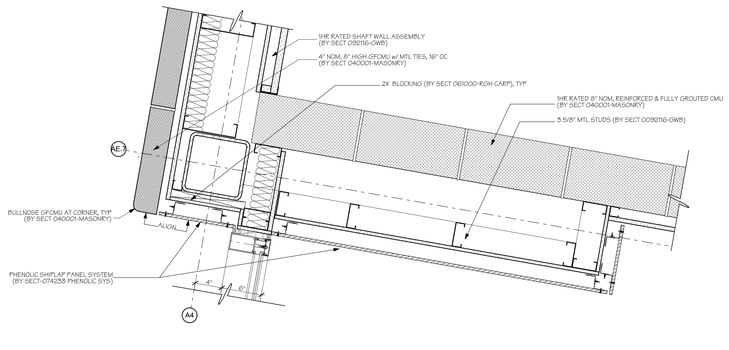


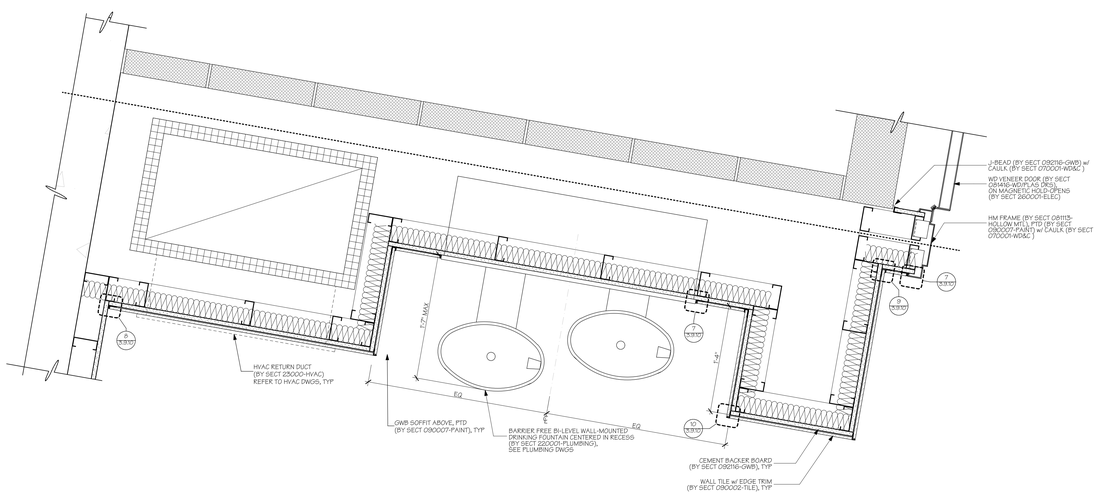
1 **Transom Head/Sill Details**
SCALE: 3" = 1'-0"



2 **HVAC Chase at Classroom Int Wall**
SCALE: 1 1/2" = 1'-0"



4 **Phenolic Shiplap Detail at Elevator**
SCALE: 1 1/2" = 1'-0"



3 **Drinking Fountain Detail at Cafe**
SCALE: 1 1/2" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 8" 16"

Revisions BS

Number	Date	Description

60% COST ESTIMATE SET

Construction Details Interior

3.9.12

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LEGEND

CW	= CROSSWALK (SEE DETAIL)
DY4	= 4" DOUBLE YELLOW EPOXY RESIN PAVEMENT MARKING
SHP	= HANDICAP PARKING PAVEMENT MARKING (SEE DETAIL)
SW4	= 4" SOLID WHITE PAVEMENT MARKING
SW6	= 6" SOLID WHITE PAVEMENT MARKING
SW12	= 12" SOLID WHITE PAVEMENT MARKING

ML-SEE PLAN 02

POROUS PAVEMENT NO SANDING ZONE
SP-1 12"x18"
SP-2 12"x18"
RESERVED FOR ELECTRIC VEHICLES ONLY
S1-1 30"x30"
W16-7p(L) 24"x12"
SHP (TYP.)
18' (TYP)
9' (TYP)
RESERVED PARKING
VAN ACCESSIBLE
R7-8 12"x18"
R7-8A 12"x9"
(TYP.)
S1-1 30"x30"
W16-7p(R) 24"x12"
SP-3 30"x30"
PICK-UP & DROP-OFF ONLY PULL TO FRONT
IDLE-FREE ZONE
TURN ENGINE OFF
SP-5 12"x18"
R7-1R 12"x18"
NO PARKING ANY TIME
STOP R1-1 30"x30"
SW12
SW6
LOW
POROUS PAVEMENT NO SANDING ZONE
SP-1 12"x18"
SW4
DY4
R7-1L 12"x18"
NO PARKING ANY TIME
PROPERTY LINE
SP-1 12"x18"
POROUS PAVEMENT NO SANDING ZONE
POROUS PAVEMENT NO SANDING ZONE
SP-1 12"x18"
DETAIL N.T.S.
1/2"IROD (FD)
0.40'
N 89°59'59" E 489.95'
JOHN C. APONAS DEED BOOK 21966, PAGE 392 PLAN BOOK 21521, PLAN 289
MO1
DY4
DY4
SEE PLAN 03
STOP R1-1 30"x30"
DO NOT ENTER R5-1 30"x30"
SW6
ARROW PAVEMENT MARKINGS (TYP.)
FOR CONTINUATION REFER TO INSET 'A'
SW12
CW
STOP R1-1 30"x30"
DO NOT ENTER R5-1 30"x30"
LION'S HEAD ROAD (PUBLIC - 40' R/W)
CITY OF AMESBURY DEED BOOK 3053, PAGE 317 PLAN BOOK 251, PLAN 84
THE WOODSOM FARM TOWN OF AMESBURY DEED BOOK 2963, PAGE 317 PLAN BOOK 251, PLAN 84
CERNY DEED BOOK 34529, PAGE 319 PLAN BOOK 200, PLAN 81
MELANIE CERNY DEED BOOK 34529, PAGE 319 PLAN BOOK 200, PLAN 81

S5-2 24"x30" END SCHOOL ZONE
S1-1 30"x30"
MA-S4-5bP 24"x24"
SCHOOL ZONE AHEAD
FLASHING SCHOOL SPEED LIMIT SIGN ASSEMBLY (SEE DETAIL)

INSET 'A'
SCALE: 1"=20'

Scale: 1"=20'
0 10' 20' 40'

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KEY PLAN

NORTH ARROW: Called North

STAMP

Date: 15 MAY 2020

Drawn By: XXX

Scale: X X XX

Revisions

Number	Date	Description

60% COST ESTIMATE SET

SIGNING AND STRIPING PLAN - 01

3.9.13

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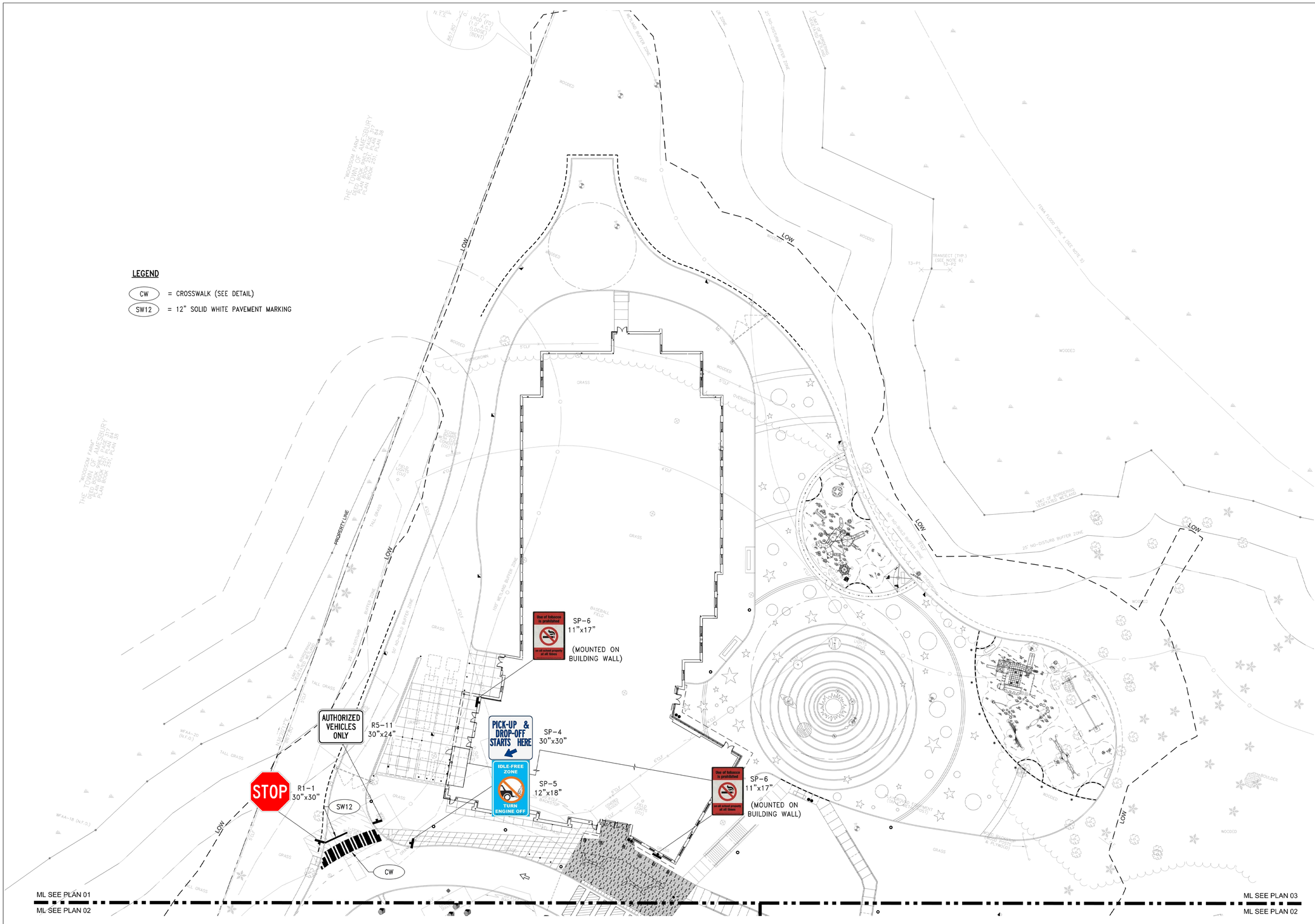

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KEY PLAN

NORTH ARROW (Called North) | STAMP

Date: 15 MAY 2020

Drawn By: XXX

Scale: X X XX

Revisions

Number	Date	Description

60% COST ESTIMATE SET

SIGNING AND STRIPING PLAN - 02

3.9.14

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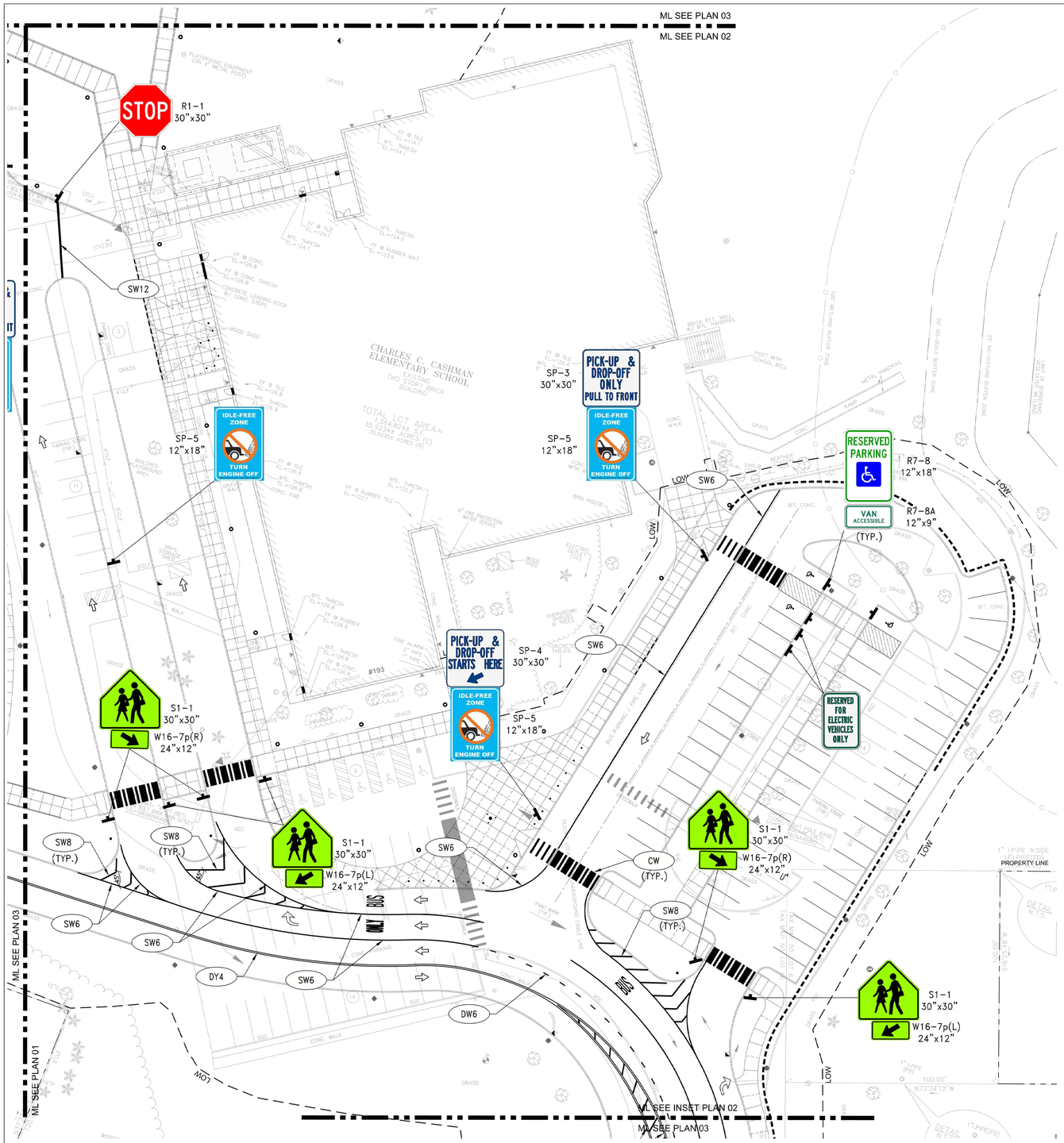

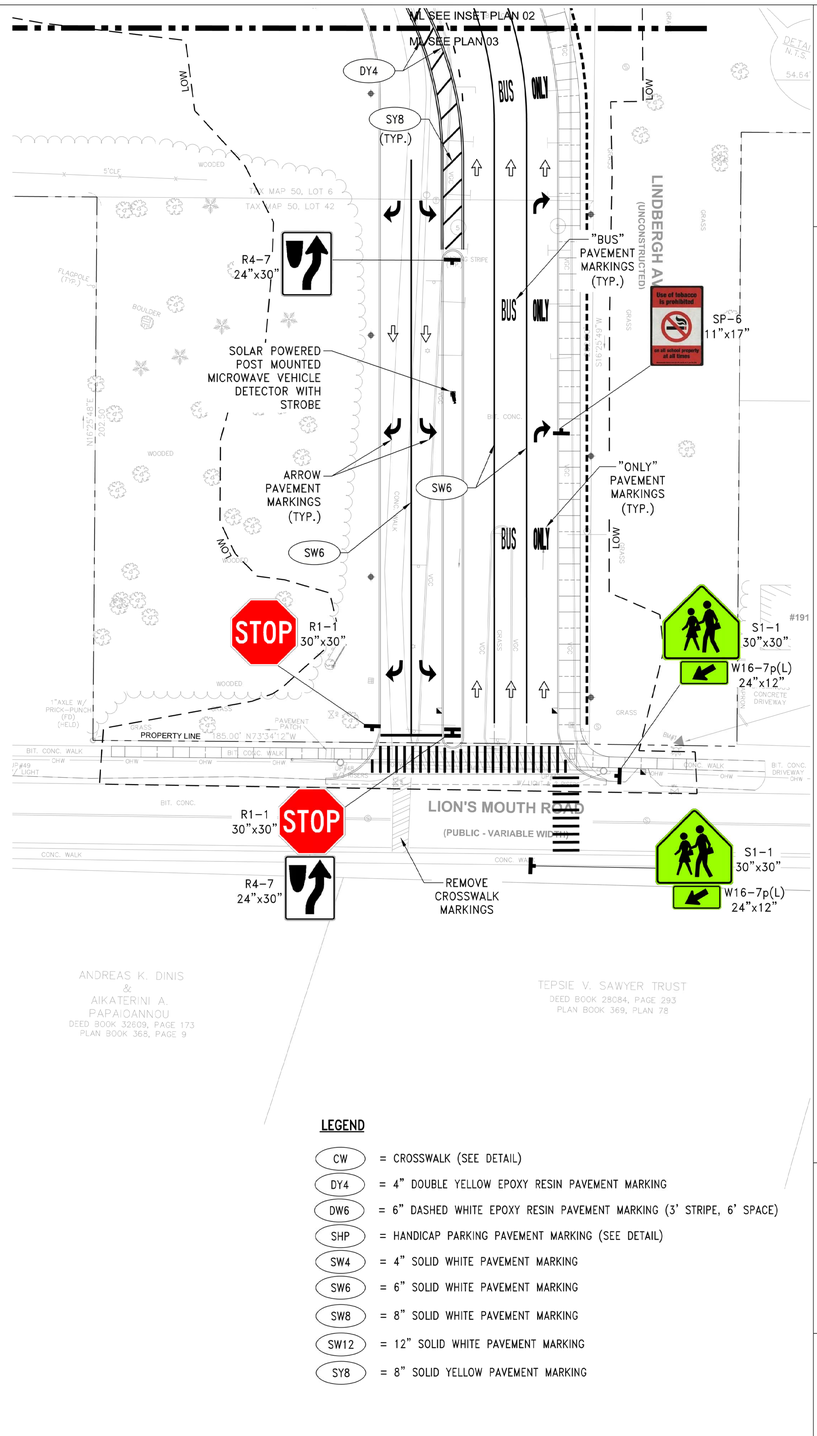

Scale: 1"=20'
0 10' 20' 40'

LEGEND

CW	= CROSSWALK (SEE DETAIL)
DY4	= 4" DOUBLE YELLOW EPOXY RESIN PAVEMENT MARKING
DW6	= 6" DASHED WHITE EPOXY RESIN PAVEMENT MARKING (3' STRIPE, 6' SPACE)
SHP	= HANDICAP PARKING PAVEMENT MARKING (SEE DETAIL)
SW4	= 4" SOLID WHITE PAVEMENT MARKING
SW6	= 6" SOLID WHITE PAVEMENT MARKING
SW8	= 8" SOLID WHITE PAVEMENT MARKING
SW12	= 12" SOLID WHITE PAVEMENT MARKING
SY8	= 8" SOLID YELLOW PAVEMENT MARKING

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KEY PLAN

NORTH ARROW — STAMP

Date: 15 MAY 2020

Drawn By: XXX

Scale: X X XX

Revisions

Number	Date	Description

60% COST ESTIMATE SET

SIGNING AND STRIPING PLAN - 03

3.9.15

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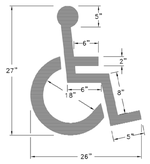
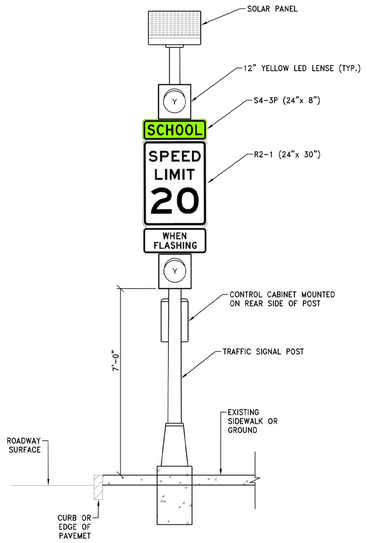


NOTE:

1. ALL ACCESSIBLE PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS OF MAAB (521 CMR).
2. REFER TO SIGN MOUNTING DETAIL FOR ADDITIONAL COMMENTS.

SHP ACCESSIBLE PAVEMENT MARKING DETAIL
NOT TO SCALE

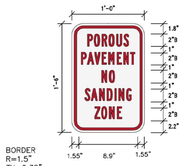


NOTES:

1. FLASHERS SHALL BE ACTIVE ON SCHOOL DAYS FROM 8:00-9:00 AM AND 3:00-4:00 PM, OR AS DIRECTED BY THE SCHOOL DEPARTMENT OR AMESBURY DPW.
2. THE FLASHING BEACONS SHALL OPERATE WITH THE TOP AND BOTTOM BEACONS FLASHING ALTERNATELY IN ACCORDANCE WITH CHAPTER 4L OF THE MUTCD.

FLASHING SCHOOL SPEED LIMIT ASSEMBLY
NOT TO SCALE

SIGN DETAIL SP-1



Panel Style: Parking – red.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: Parking – red.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

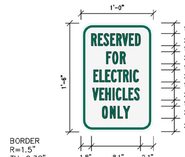
SIGN NUMBER	none
WIDTH x HGHT.	1'-0" x 1'-6"
BORDER WIDTH	0.38"
CORNER RADIUS	0"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Red/Red

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

P	O	R	O	U	S															LENGTH	SERIES/SIZE
2.6	3.7	5	6.1	7.4	8.6															6.8	B 2000 2
P	A	V	E	M	E	N	T														B 2000
1.6	2.5	3.7	5	6	7.5	8.5	9.7													8.9	2
N	O																				B 2000
4.9	6.2																			2.2	2
S	A	N	D	I	N	G															B 2000
2.1	3.2	4.5	5.8	7.1	7.8	9														7.7	2
2	O	N	E																		B 2000
3.8	4.9	6.2	7.5																	4.5	2

SIGN DETAIL SP-2



Panel Style: Green Border tall.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: Green Border tall.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

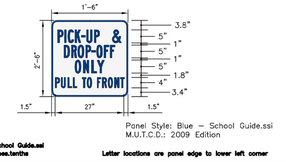
SIGN NUMBER	SP-7
WIDTH x HGHT.	1'-0" x 1'-6"
BORDER WIDTH	0.38"
CORNER RADIUS	0"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Green/Green

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

R	E	S	E	R	V	E	D													LENGTH	SERIES/SIZE
1.8	2.9	3.8	4.9	5.9	6.8	8	9													8.1	B 2000 2
F	O	R																			B 2000
4.2	5.2	6.5																		3.1	2
E	L	E	C	T	R	I	C														B 2000
2.1	3.1	4.1	5	6	7	8.1	8.7													7.4	2
V	E	H	I	C	L	E	S														B 2000
1.9	3.1	4.1	5.3	5.8	6.9	7.9	8.8													7.8	2
O	N	L	Y																		B 2000
3.5	4.8	6.1	7																	4.6	2

SIGN DETAIL
1:50



Panel Style: Blue – School Guide.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: Blue – School Guide.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

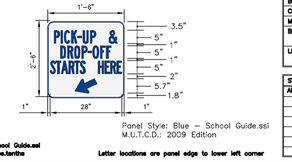
SIGN NUMBER	SP-3
WIDTH x HGHT.	2'-6" x 2'-6"
BORDER WIDTH	0.5"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Blue/Blue

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

P	I	C	K	_	U	P		&												LENGTH	SERIES/SIZE
2.5	5.1	6.4	9.2	11.7	13.8	15.7	18.5	23.8												24.9	B 2000 5
D	R	O	P	_	O	F	F														B 2000
4.9	7.8	10.4	13.3	15.7	17.8	20.8	23													19.9	5
O	N	L	Y																		B 2000
9.2	12.5	15.7	17.9																	11.4	5
P	U	L	L	T	O	F	R	O	N	T											B 2000
1.5	3.8	6.4	8.5	12	14	17.8	19.9	22.1	24.7	27										27	4

SIGN DETAIL
1:50



Panel Style: Blue – School Guide.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: Blue – School Guide.ssi
Dimensions are in inches.tenths

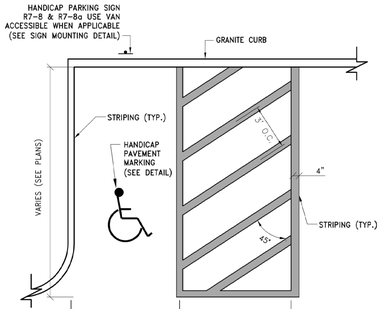
Letter locations are panel edge to lower left corner

SIGN NUMBER	SP-4
WIDTH x HGHT.	2'-6" x 2'-6"
BORDER WIDTH	0.25"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Blue/Blue

SYMBOL	ROT	X	Y	WID	HT
AR_Type D	115	10.7	1.9	6	8

LETTER POSITIONS (X)

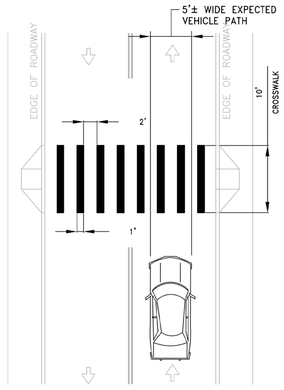
P	I	C	K	_	U	P		&												LENGTH	SERIES/SIZE
2.6	5.2	6.5	9.3	11.8	13.9	16.8	18.9	23.9												24.9	B 2000 5
D	R	O	P	_	O	F	F														B 2000
5	7.9	10.5	13.4	15.8	17.7	20.7	23.1													19.9	5
S	T	A	R	T	S			H	E	R	E										B 2000
1	3.3	5.3	8.3	10.6	12.7	14.8	19.8	22.4	24.6	27.1										28	5



NOTES:

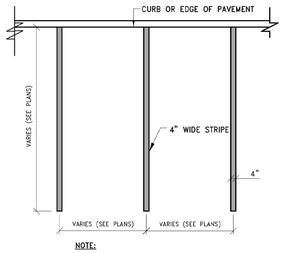
1. WHERE STALLS ABUT SIDEWALK, PARKING SIGNS SHOULD BE PLACED AT BACK EDGE OF SIDEWALK.
2. STRIPING SHALL BE WHITE IN COLOR.
3. GENERAL CONDITIONS SHOWN HERE. SEE SITE PLANS FOR LOCATIONS AND CONFIGURATION OF ACCESSIBLE PARKING STALLS.

SHP ACCESSIBLE PARKING STALLS
NOT TO SCALE



NOTE:
ALL MARKINGS ARE WHITE EPOXY RESIN

CW CROSSWALK DETAIL
NOT TO SCALE



NOTE:
1. STRIPING SHALL BE WHITE IN COLOR.

TYPICAL PARKING STALL
NOT TO SCALE



MGL CH 90 SCT 16A. CH 111 SCT 41A. 310 CMR 7.11

SP-5
IDLE-FREE ZONE 12"x18"
NOT TO SCALE



MASS.GOV ITEM NUMBER BH2666

SP-6
NO SMOKING 11"x17"
NOT TO SCALE

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AS NOTED

KEY PLAN

NORTH ARROW: Called North

STAMP

Date: 15 MAY 2020

Drawn By: XXX

Scale: X X XX

Revisions

Number	Date	Description

60% COST ESTIMATE SET

SIGNING AND STRIPING DETAILS

3.9.16

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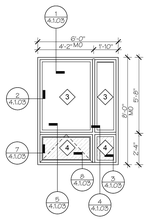
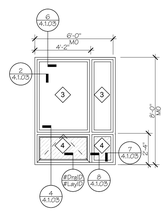
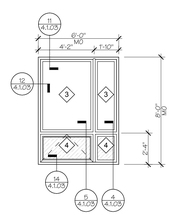
EXTERIOR WINDOW TYPES



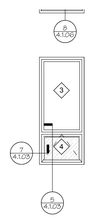
A **Window Elevation @ Brick Header**
SCALE:



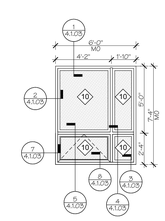
B **Window Elevation @ Precast Header**
SCALE:



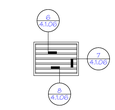
C **Window Elevation @ CMU**



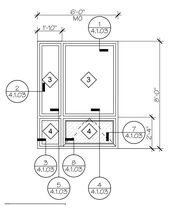
D **West Elevation - Windows**



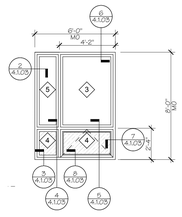
F **Window Elevation @ Admin**
SCALE:



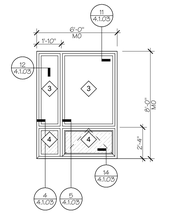
G **Louver Elevation @ Ground**
SCALE:



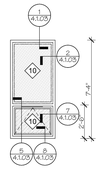
A.1 **Window Elevation @ Brick Header**
SCALE:



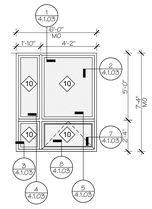
B.1 **Window Elevation @ Precast Header**
SCALE:



C.1 **Window Elevation @ CMU**



E **North East Elevation - Admin Area**



F.1 **Window Elevation @ Admin**
SCALE:

GLAZING SCHEDULE

(BY SECT 08000/MTL WINDOWS)

1. 1/4" CLEAR FLOAT GLASS
2. 1/4" CLEAR TEMPERED SAFETY GLASS
3. 1" INSULATED LOW-E GLASS
4. 1" TEMPERED INSULATED LOW-E GLASS
5. 1" INSULATED SPANDREL LOW-E GLASS
6. 1" TEMPERED INSULATED LOW-E SPANDREL GLASS
7. 1" TEMPERED INSULATED LOW-E 33% FRIT GLASS
8. 1" TEMPERED INSULATED LOW-E 60% FRIT GLASS
9. 1" TEMPERED INSULATED TRANSLUCENT LOW-E GLASS
10. 1" TEMPERED INSULATED LAMINATED LOW-E GLASS (USED WHERE BOTH SAFETY & MIRROR)
11. 1" TEMPERED, INSULATED, OPTIC CORE, LIGHT DIFFUSING, LOW-E GLASS

GLAZING LEGEND

- AM — ACCENT MULLION
- SB60 — SOLARBAN 60 (AT NORTH & EAST ELEVATIONS)
- SB70 — SOLARBAN 70XL (AT SOUTH & WEST ELEVATIONS)

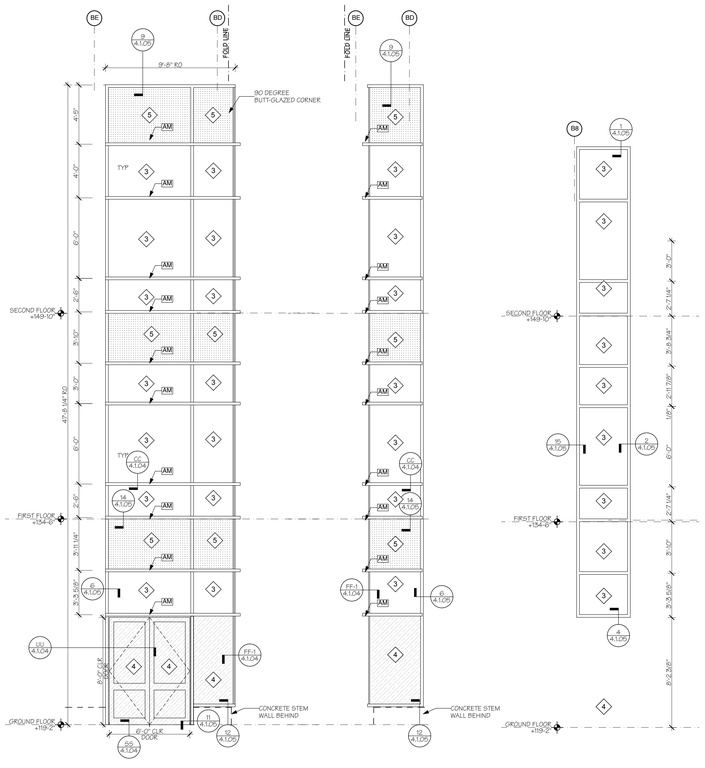
GENERAL NOTES

1. ALL ROUGH OPENINGS SHALL BE FIELD VERIFIED PRIOR TO WINDOW FABRICATION.
2. ALL CLEAR GLASS IS INSIDE GLAZED UNLESS OTHERWISE NOTED.
3. ALL SPANDREL GLASS IS OUTSIDE GLAZED UNLESS OTHERWISE NOTED.
4. ALL WINDOW FRAMES, EXTENSIONS, AND CURTAINWALL COMPONENTS ARE COLOR 1 UNLESS OTHERWISE NOTED.
5. FILL ALL VOIDS AND CAVITY WALLS (FURN BY SECT 07200-INSUL, INSTALL BY SECT 08000/MTL WINDOWS) WITH SEMI-RIGID INSULATION.
6. EXTEND ALL FLASHINGS A MINIMUM OF 6" BEYOND WINDOW OPENINGS. TURN UP END PANS AT FLASHINGS, TYPICAL FOR ALL OPENINGS.
7. SEE TYPICAL AWB LAPPING DIAGRAMS ON SHEET A.5.25.
8. AWB SHALL OVERLAP ALL HEAD AND SUB FLASHING A MINIMUM OF 4".
9. INTERNAL STEEL REINFORCEMENT TO BE USED AS REQUIRED TO MAINTAIN WINDOW PROFILES. NO EXTERNAL REINFORCING WILL BE ACCEPTED.
10. PROVIDE ISOLATION TAPE OR OTHERWISE ISOLATE ALL DISIMILAR METALS.
11. COORDINATE MASONRY TIES WITH AWB AND FLASHING. SEAL ALL AWB AND FLASHING PENETRATIONS WATER TIGHT.

GLAZING GRAPHICS LEGEND

- 1" INSULATED SPANDREL GLASS (BY SECT 08000/MTL WINDOWS)
- SAFETY FILM APPLIED TO INSIDE FACES OF GLASS PANELS - GROUND & FIRST FLOOR ONLY (BY SECT 08000/MTL WINDOWS)
- FRITTED GLASS (BY SECT 08000/MTL WINDOWS)
- FROSTED GLASS (BY SECT 08000/MTL WINDOWS)
- ALUMINUM INFILL PANEL (BY SECT 08000/MTL WINDOWS)
- OPTIC CORE, LIGHT DIFFUSING PANEL (BY SECT 08000/MTL WINDOWS)
- ANCHOR ATTACHMENTS (BY SECT 08000/MTL WINDOWS)

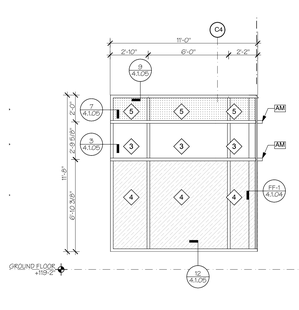
EXTERIOR CURTAINWALL TYPES



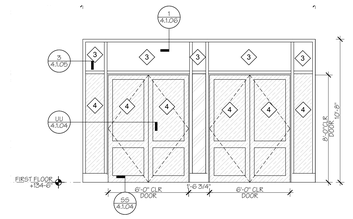
AA **North Elevation - Stair C**

AA.1 **West Elevation - Stair C**

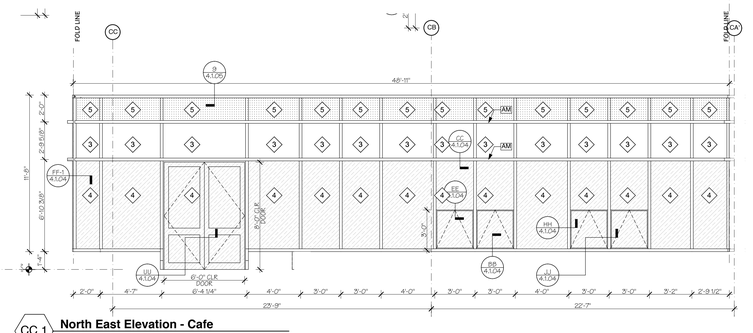
BB **East Elevation - Stair C**



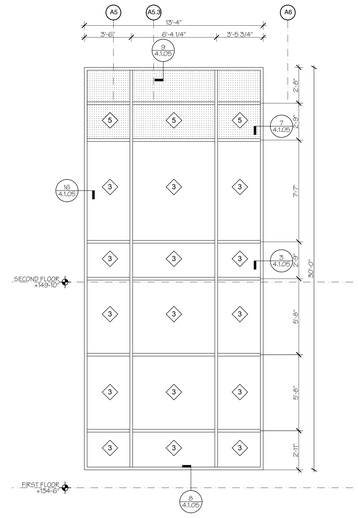
CC.2 **South East Elevation - Cafe**



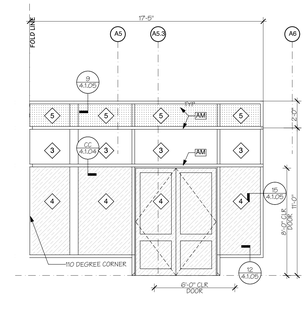
FF **South Elevation - Vestibule 100**



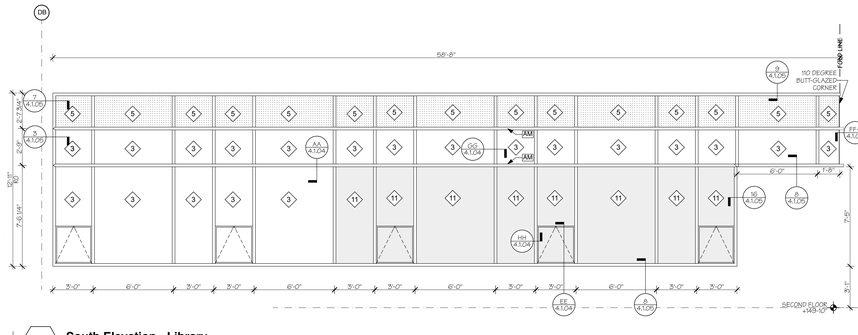
CC.1 **North East Elevation - Cafe**



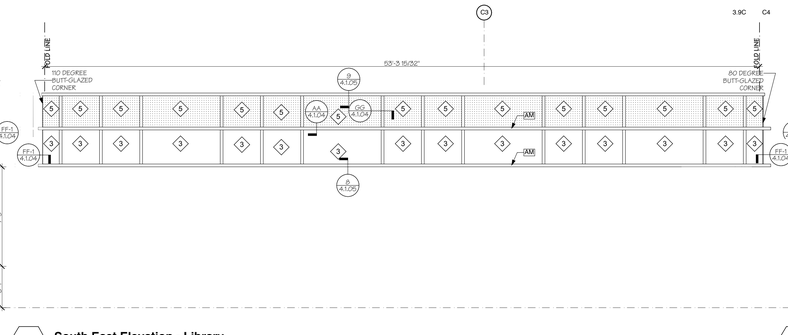
DD **South East Elevation - Main Lobby**



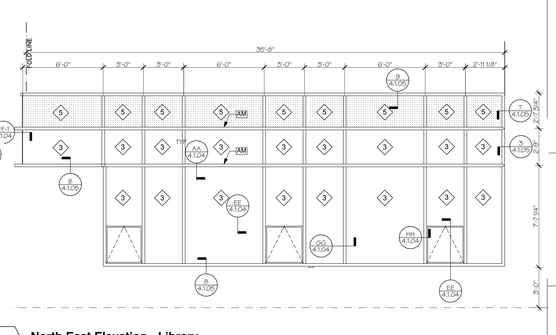
CC **South East Elevation - Vestibule 001**



EE.2 **South Elevation - Library**



EE.1 **South East Elevation - Library**



EE **North East Elevation - Library**

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 4 8

Revisions

Number	Date	Description
BS		

60% COST ESTIMATE SET

Window & Louver Elevations

4.1.01

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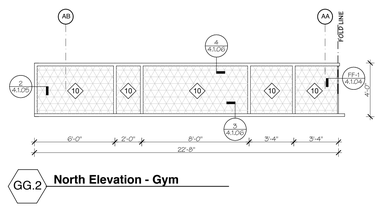
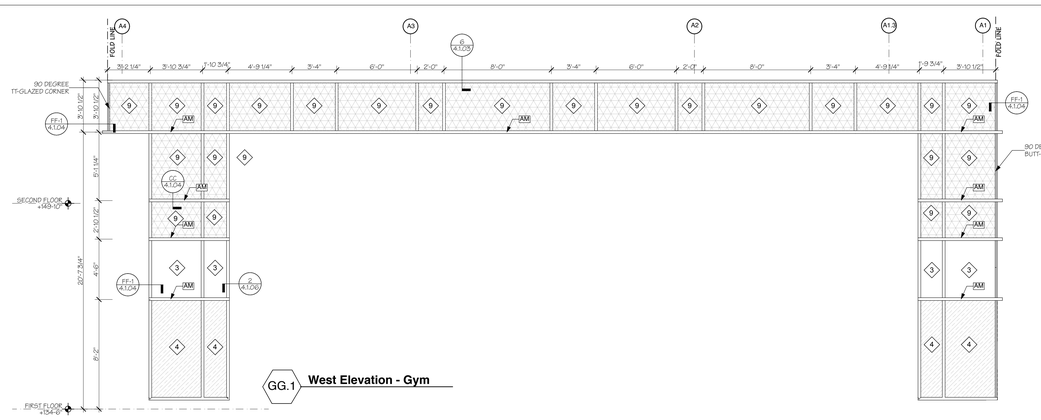
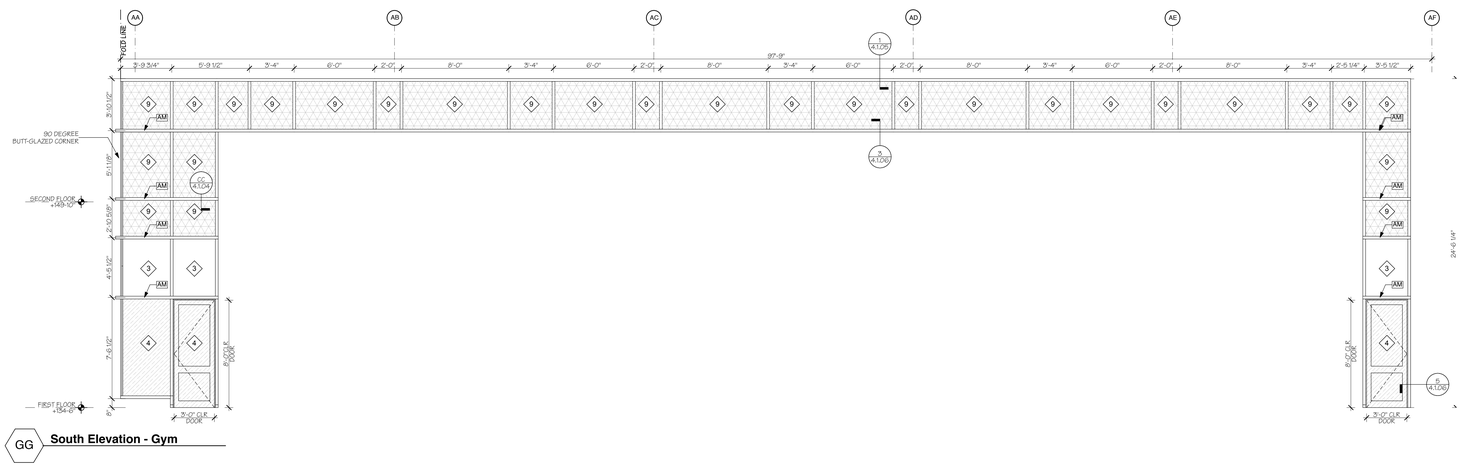


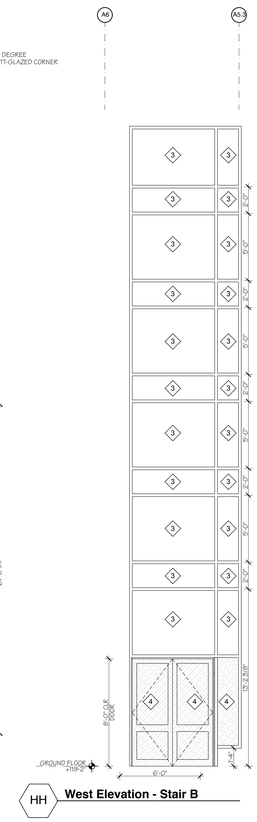
GG.2 **North Elevation - Gym**



GG.1 **West Elevation - Gym**



GG **South Elevation - Gym**



HH **West Elevation - Stair B**

GLAZING SCHEDULE

(BY SECT GBOOO1-MTL WINDOWS)

1	1/4" CLEAR FLOAT GLASS
2	1/4" CLEAR TEMPERED SAFETY GLASS
3	1" INSULATED LOW-E GLASS
4	1" TEMPERED INSULATED LOW-E GLASS
5	1" INSULATED SPANDREL LOW-E GLASS
6	1" TEMPERED INSULATED LOW-E SPANDREL GLASS
7	1" TEMPERED INSULATED LOW-E 33% FRIT GLASS
8	1" TEMPERED INSULATED LOW-E 60% FRIT GLASS
9	1" TEMPERED INSULATED TRANSLUCENT LOW-E GLASS
10	1" TEMPERED INSULATED LAMINATED LOW-E GLASS (USED WHERE BOTH SAFETY & MIRROR)
11	1" TEMPERED, INSULATED, OPTIC CORE, LIGHT DIFFUSING, LOW-E GLASS

GLAZING LEGEND

AM	ACCENT MULLION
SB60	SOLARBAN 60 (AT NORTH & EAST ELEVATIONS)
SB70	SOLARBAN 70XL (AT SOUTH & WEST ELEVATIONS)

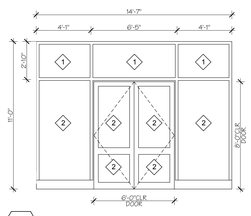
GENERAL NOTES

1. ALL ROUGH OPENINGS SHALL BE FIELD VERIFIED PRIOR TO WINDOW FABRICATION.
2. ALL CLEAR GLASS IS INSIDE GLAZED UNLESS OTHERWISE NOTED.
3. ALL SPANDREL GLASS IS OUTSIDE GLAZED UNLESS OTHERWISE NOTED.
4. ALL WINDOW FRAMES, EXTENSIONS, AND CURTAINWALL COMPONENTS ARE COLOR 1 UNLESS OTHERWISE NOTED.
5. FILL ALL VOIDS AND CAVITY WALLS (FURR) BY SECT 072500-INSUL. INSTALL BY SECT GBOOOMFL WINDOWS) WITH SEMI-RIGID INSULATION.
6. EXTEND FLASHINGS A MINIMUM OF 6" BEYOND WINDOW OPENINGS. TURN UP END DAMS AT FLASHINGS, TYPICAL FOR ALL OPENINGS.
7. SEE TYPICAL A5/B LAPPING DIAGRAMS ON SHEET A.5.05.
8. A5/B SHALL OVERLAP ALL HEAD AND SUB FLASHING A MINIMUM OF 4".
9. INTERNAL STEEL REINFORCEMENT TO BE USED AS REQUIRED TO MAINTAIN WINDOW PROFILES. NO EXTERNAL REINFORCING WILL BE ACCEPTED.
10. PROVIDE ISOLATION TAPE OR OTHERWISE ISOLATE ALL DISIMILAR METALS.
11. COORDINATE MASONRY TIES WITH A5/B AND FLASHING. SEAL ALL A5/B AND FLASHING PENETRATIONS WATER TIGHT.

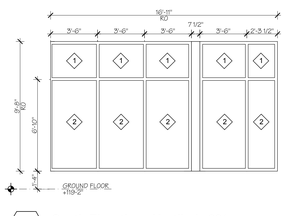
GLAZING GRAPHICS LEGEND

- 1" INSULATED SPANDREL GLASS (BY SECT GBOOO1-MTL WINDOWS)
- SAFETY FILM APPLIED TO INSIDE FACES OF GLASS PANELS - GROUND & FIRST FLOOR ONLY (BY SECT GBOOO1-MTL WINDOWS)
- FRITTED GLASS (BY SECT GBOOO1-MTL WINDOWS)
- FROSTED GLASS (BY SECT GBOOO1-MTL WINDOWS)
- ALUMINUM INFILL PANEL (BY SECT GBOOO1-MTL WINDOWS)
- OPTIC CORE, LIGHT DIFFUSING PANEL (BY SECT GBOOO1-MTL WINDOWS)
- ANCHOR ATTACHMENTS (BY SECT GBOOO1-MTL WINDOWS)

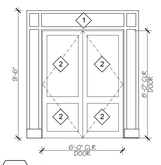
INTERIOR STORE FRONT TYPES



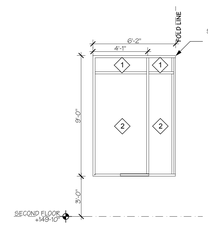
KK **Vestibule-001**



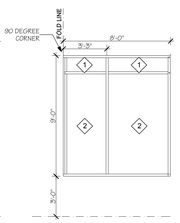
LL **South Elevation - Vestibule 001**



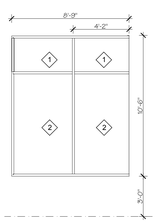
LL.1 **Cafe Entry**



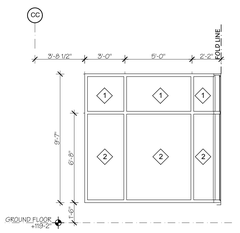
TT **Work Room East Elevation**



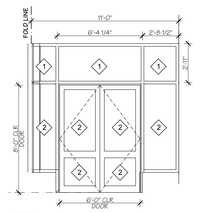
TT.1 **Work Room North Elevation**



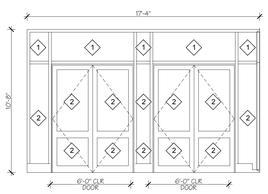
TT.2 **Work Room West Elevation**



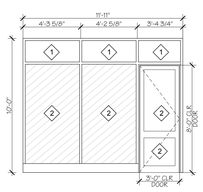
NN **Vestibule-002A South**



NN.1 **Vestibule-002A West**



OO **Vestibule 101**



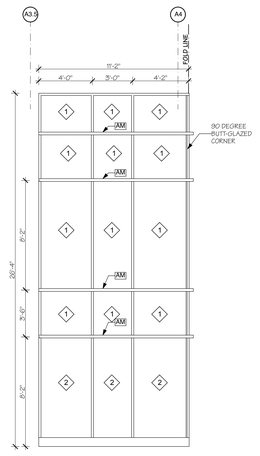
RR **General Office Entry**

SS **Library East Elevation**

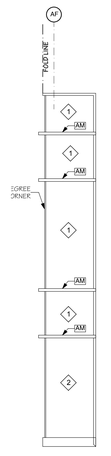
SS.1 **Library South Elevation**

UU **East Elevation - Teacher Dining 230**

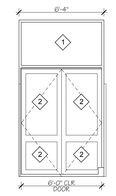
INTERIOR CURTAINWALL TYPES



QQ **GYM Corner -West**



QQ.1 **GYM Corner-South**



PP **GYM Entry**

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 4 8

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Curtainwall Elevations

4.1.02

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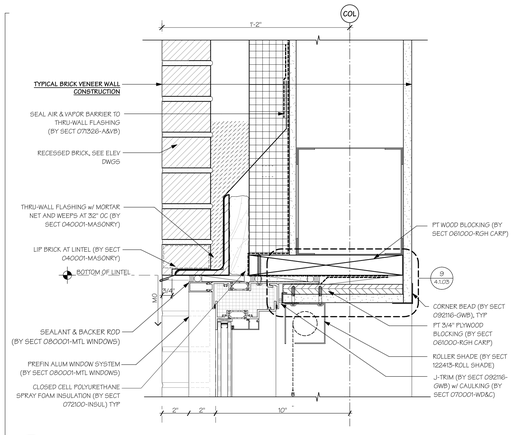
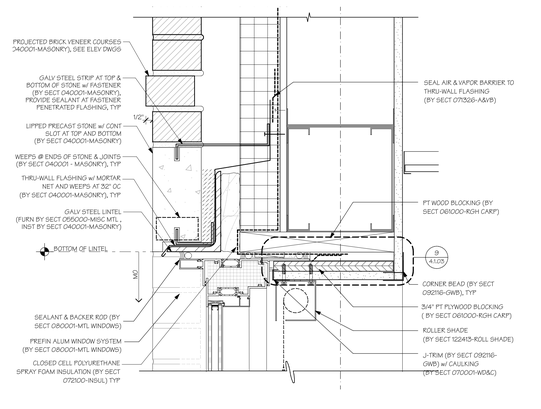
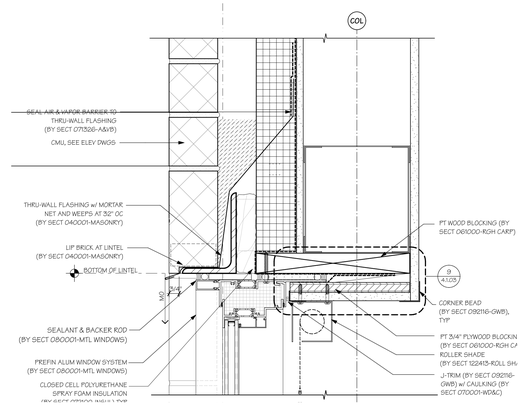


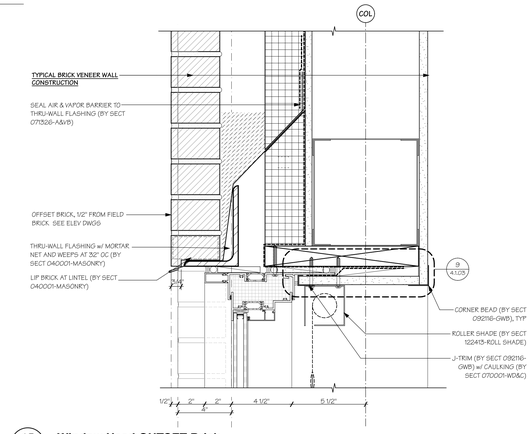
1 **Window Head @ Field Brick**
SCALE: 3" = 1'-0"



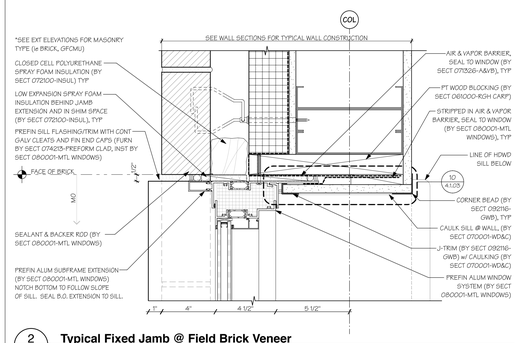
6 **Window Head w/ Precast**
SCALE: 3" = 1'-0"



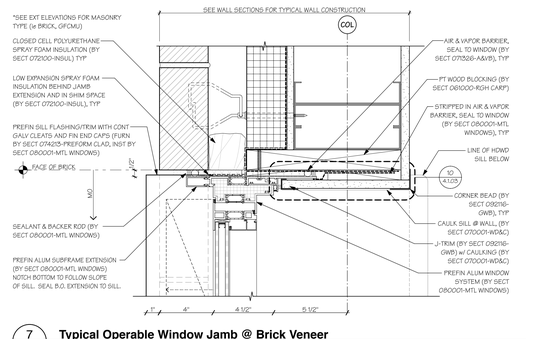
11 **Window Head @ CMU**
SCALE: 3" = 1'-0"



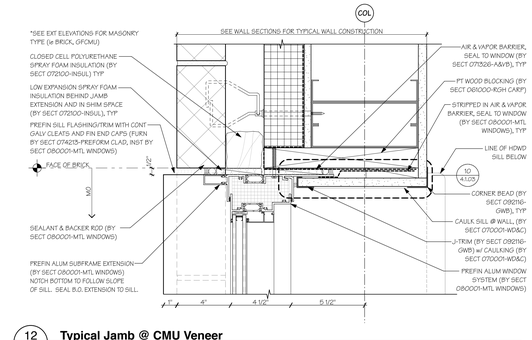
15 **Window Head OUTSET Brick**
SCALE: 3" = 1'-0"



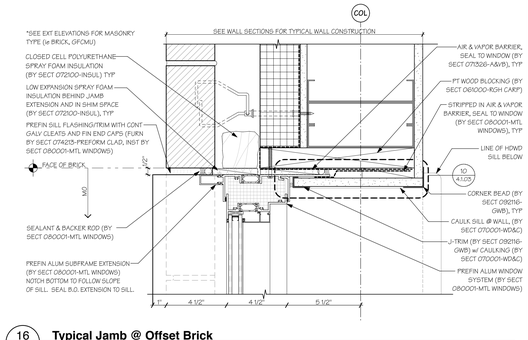
2 **Typical Fixed Jamb @ Field Brick Veneer**
SCALE: 3" = 1'-0"



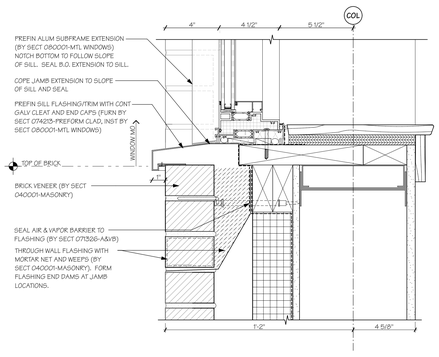
7 **Typical Operable Window Jamb @ Brick Veneer**
SCALE: 3" = 1'-0"



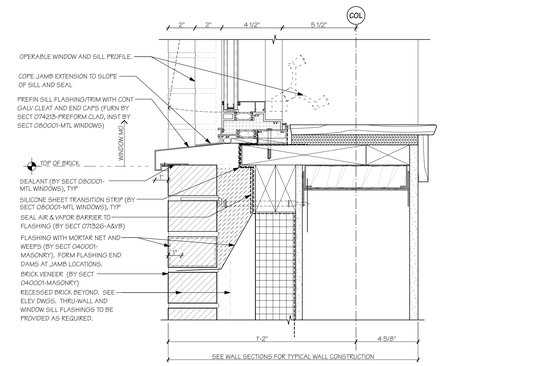
12 **Typical Jamb @ CMU Veneer**
SCALE: 3" = 1'-0"



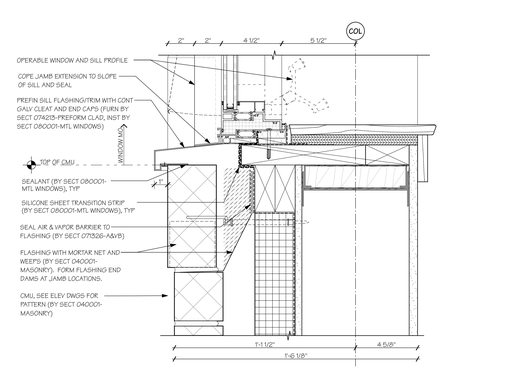
16 **Typical Jamb @ Offset Brick**
SCALE: 3" = 1'-0"



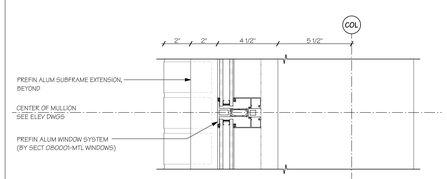
3 **Window Sill Fixed @ Field Brick**
SCALE: 3" = 1'-0"



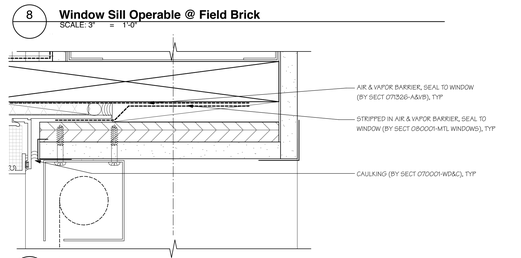
8 **Window Sill Operable @ Field Brick**
SCALE: 3" = 1'-0"



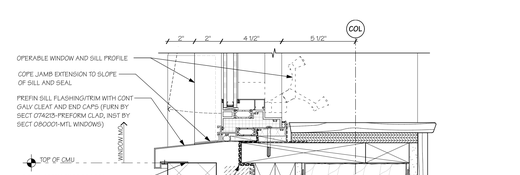
13 **Typical Fixed Window Sill @ CMU**
SCALE: 3" = 1'-0"



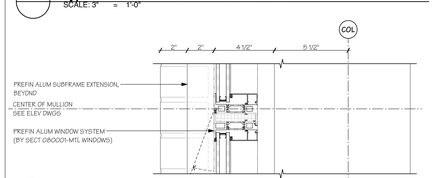
4 **Typical Intermediate Section @ Fixed Window**
SCALE: 3" = 1'-0"



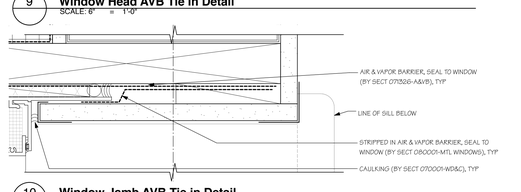
9 **Window Head AVB Tie In Detail**
SCALE: 6" = 1'-0"



14 **Typical Operable Window Sill @ CMU**
SCALE: 3" = 1'-0"



5 **Typical Intermediate Mullion Section @ Operable Window**
SCALE: 3" = 1'-0"



10 **Window Jamb AVB Tie in Detail**
SCALE: 6" = 1'-0"

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Andover, MA 01880
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KEY PLAN

NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By: CF

Scale: 0 4 8

Revisions

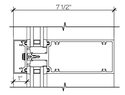
Number	Date	Description

60% COST ESTIMATE SET

Window Details

4.1.03

© 2020 DiNisco Design - [36" x 48"] - 5/14/20



AA **Horiz Mullion - Fixed/Fixed**
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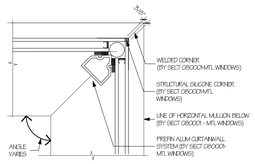

FF-1 **TYP Outside Corner Mullion**
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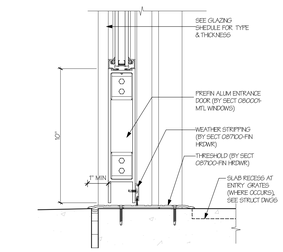

MM **Door Bottom Rail - Exterrior**
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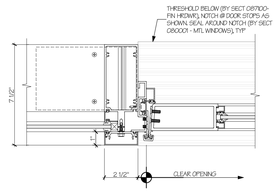
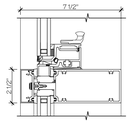
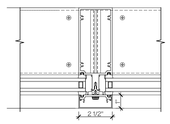


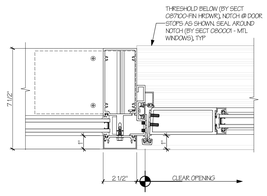
TT **Vert Mullion @ Door Jamb - Interior**
SCALE: 3" = 1'-0"



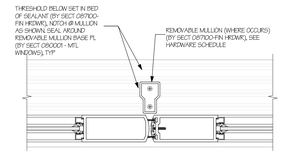
BB **Horiz Mullion - Operable/Fixed**
SCALE: 3" = 1'-0"



GG **Vert Mullion**
SCALE: 3" = 1'-0"



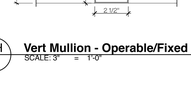
NN **Vert Mullion @ Door Jamb - Exterior**
SCALE: 3" = 1'-0"



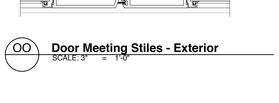
UU **Door Meeting Stiles - Interior**
SCALE: 3" = 1'-0"



CC **Horiz Mullion w/ Accent Cover**
SCALE: 3" = 1'-0"



HH **Vert Mullion - Operable/Fixed**
SCALE: 3" = 1'-0"



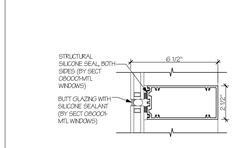
OO **Door Meeting Stiles - Exterior**
SCALE: 3" = 1'-0"



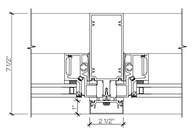
VV **Vert Mullion - Accent Cover**
SCALE: 3" = 1'-0"



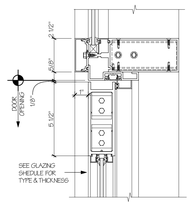
YY **Horiz Mullion - Interior**
SCALE: 3" = 1'-0"



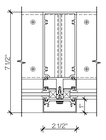
DD **Horiz Mullion - Butt Glazed**
SCALE: 3" = 1'-0"



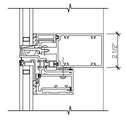
JJ **Vert Mullion - Operable/Operable**
SCALE: 3" = 1'-0"



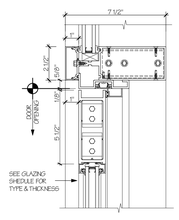
QQ **Horiz Mullion @ Door Head - Interior**
SCALE: 3" = 1'-0"



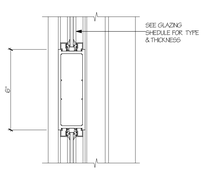
ZZ **Vert Mullion - Interior**
SCALE: 3" = 1'-0"



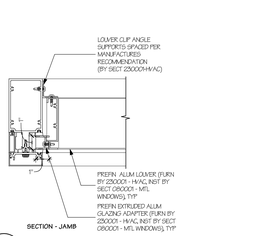
EE **Horiz Mullion - Fixed/Operable (Butt Glazed)**
SCALE: 3" = 1'-0"



KK **Horiz Mullion @ Door Head - Exterior**
SCALE: 3" = 1'-0"



RR **Door Mid-Rail - Interior**
SCALE: 3" = 1'-0"



XX.2 **Vert Mullion - Louver Jamb**
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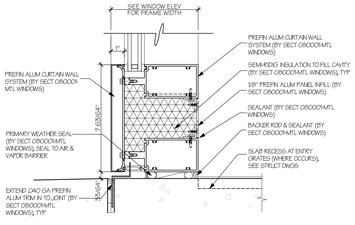
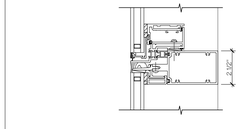


1 **TYP Curtainwall Sill @ Exterior Grade**
SCALE: 3" = 1'-0"



FF **Horiz Mullion - Operable/Fixed (Butt Glazed)**
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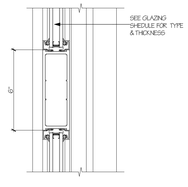
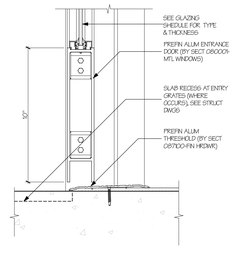
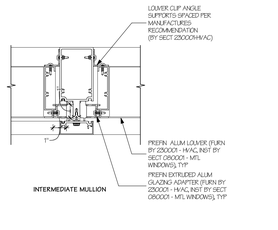


LL **Door Mid-Rail- Exterior**
SCALE: 3" = 1'-0"



SS **Door Bottom Rail - Interior**
SCALE: 3" = 1'-0"



XX.3 **Vert Mullion - Louver Intermediate Mullion**
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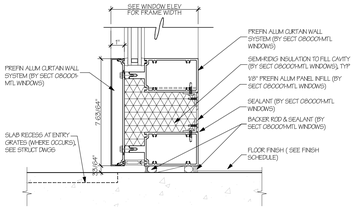

2 **TYP Curtainwall Sill @ Interior Grade**
SCALE: 3" = 1'-0"

TYPICAL NOTES:

1. FILL ALL VOIDS WITHIN WINDOW FRAMES (FURN AND INSTALL BY SECT 080001-MTL WINDOWS) AND CAVITY WALLS (FURN BY SECT 072100-INSUL, INSTALL BY SECT 080001-MTL WINDOWS) WITH SEMI-RIGID INSTALLATION
2. EXTEND ALL FLASHINGS A MINIMUM OF 6" BEYOND WINDOW OPENINGS. TURN UP END DAMS AT FLASHINGS, TYPICAL FOR ALL OPENINGS
3. SEE TYPICAL AV&B LAPPING DIAGRAMS ON SHEET 4.1.05
4. A&VB SHALL OVERLAP ALL HEAD AND SUB FLASHING A MINIMUM OF 4"
5. INTERNAL STEEL REINFORCEMENT TO BE USED AS REQUIRED TO MAINTAIN CURTAIN WALL PROFILES. NO EXTERNAL REINFORCING WILL BE ACCEPTED.
6. ALL OPENINGS SHALL BE FIELD VERIFIED PRIOR TO WINDOW/LOUVER FABRICATION
7. INTERIOR WOOD SILLS SHALL EXTEND 2" BEYOND JAMBS
8. PROVIDE WELDED END CAPS AT ALL EXPOSED ENDS OF SNAP TRIM/MULLIONS
9. PROVIDE ISOLATION TAPE, OR OTHERWISE ISOLATE ALL DISIMILAR METALS
10. ALL CURTAINWALL FASTENERS EXPOSED TO VIEW SHALL BE COLOR MATCHED TO THE FRAME

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KEY PLAN

NORTH ARROW STAMP

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Drawn By:
Scale: AS NOTED
Revisions CMF

Number	Date	Description

60% COST ESTIMATE SET

Curtainwall Details

4.1.04

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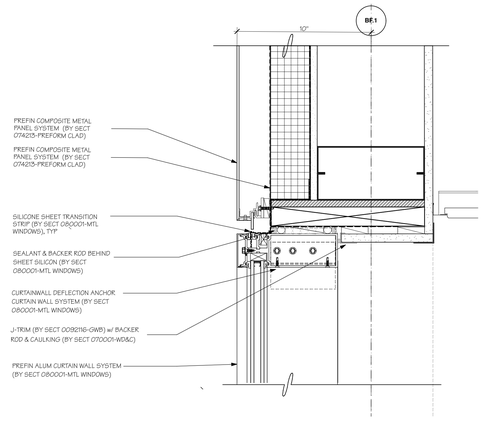
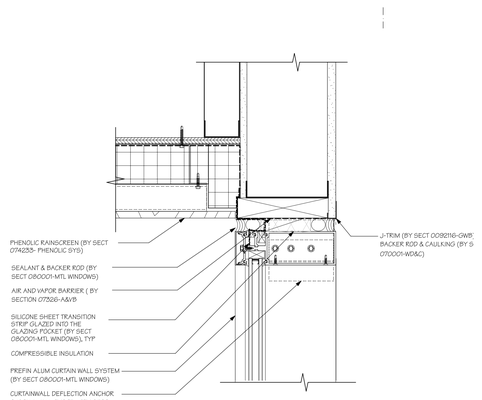
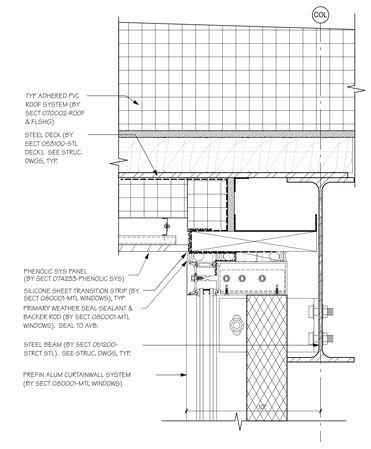


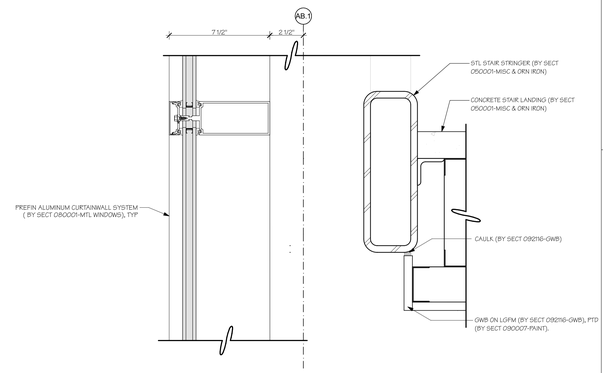
1 **CW - Prefinished CMP @ Head**
SCALE: 3" = 1'-0"



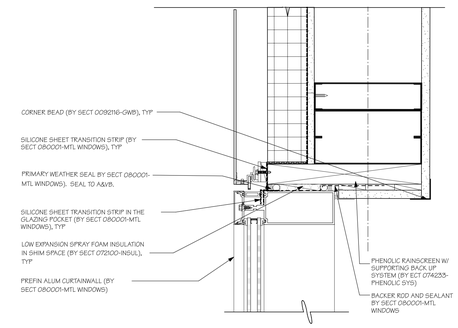
5 **Typical CW - Phenolic SYS - Head**
SCALE: 3" = 1'-0"



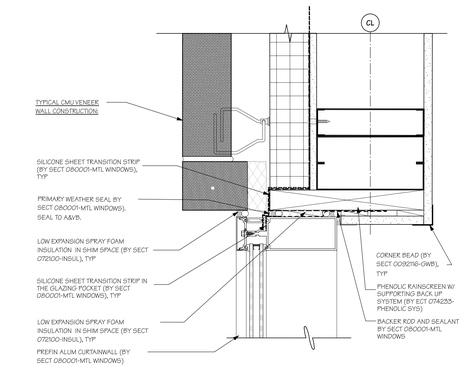
9 **CW - PHENOLIC - HEAD**
SCALE: 3" = 1'-0"



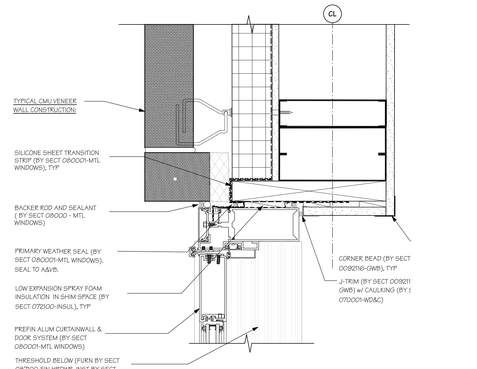
13 **Horizontal Mullionat Stair Landing**
SCALE: 3" = 1'-0"



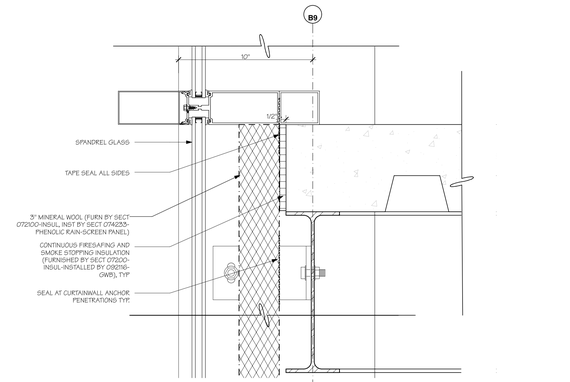
2 **CW-Prefinished CMP @ Jamb**
SCALE: 3" = 1'-0"



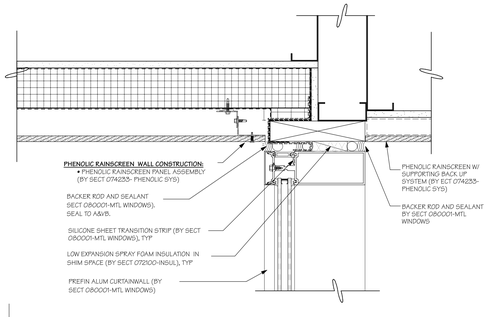
6 **CW Jamb @ CMU Veneer**
SCALE: 3" = 1'-0"



10 **CW - Door Jamb @ CMU**
SCALE: 3" = 1'-0"



14 **CW-Horiz Mullion - Spandrel - Backpan**
SCALE: 3" = 1'-0"



3 **Typical CW-Phenolic SWS - Jamb**
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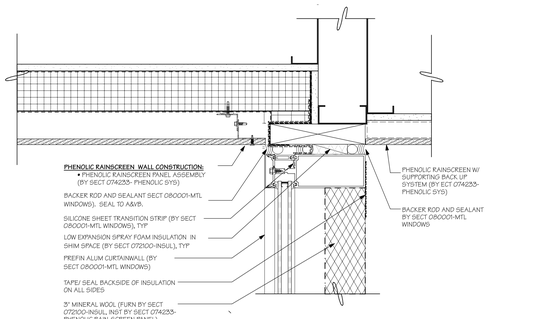
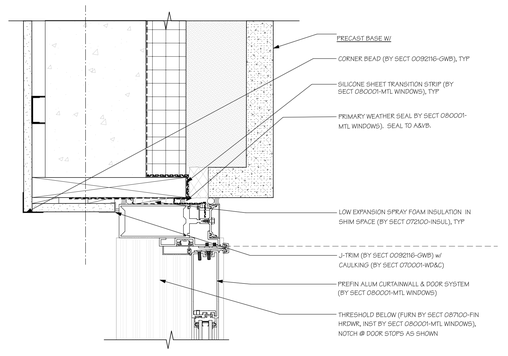
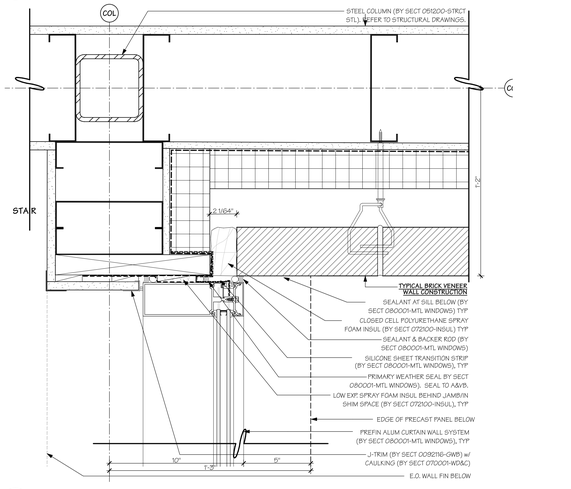


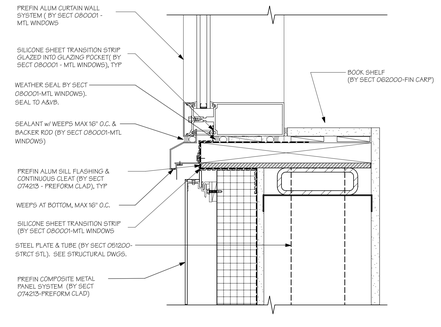
7 **CW-Phenolic @ Jamb w/ Insulation**
SCALE: 3" = 1'-0"



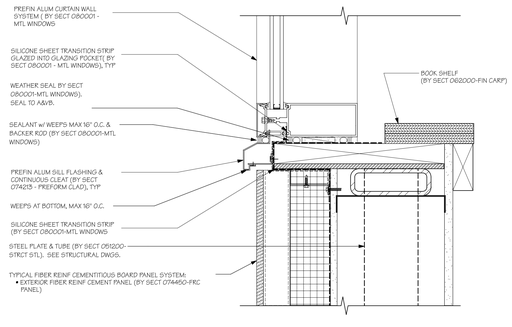
11 **CW - Precast - Jamb**
SCALE: 3" = 1'-0"



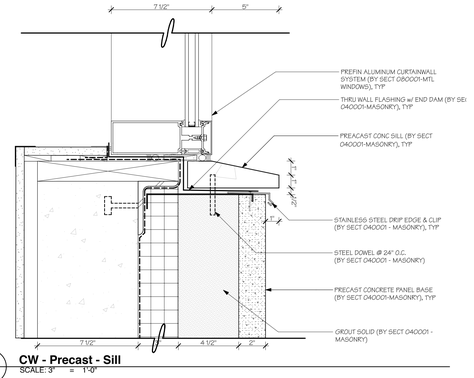
15 **CW - Brick - Jamb**
SCALE: 3" = 1'-0"



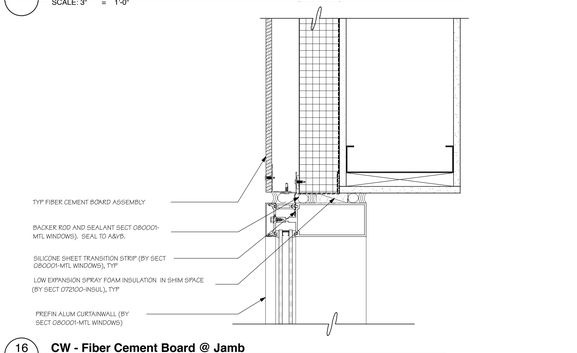
4 **CW- PREF CMP @ Sill**
SCALE: 3" = 1'-0"



8 **Typical CW- FRC - Sill**
SCALE: 3" = 1'-0"



12 **CW - Precast - Sill**
SCALE: 3" = 1'-0"



16 **CW - Fiber Cement Board @ Jamb**
SCALE: 3" = 1'-0"

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KEY PLAN

NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 8" 16"

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Window Details

4.1.05

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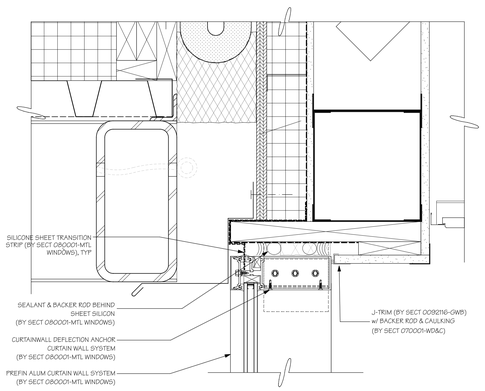
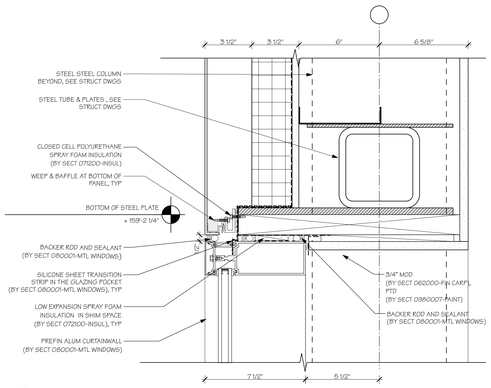
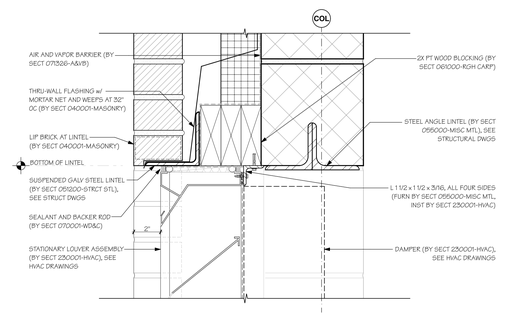


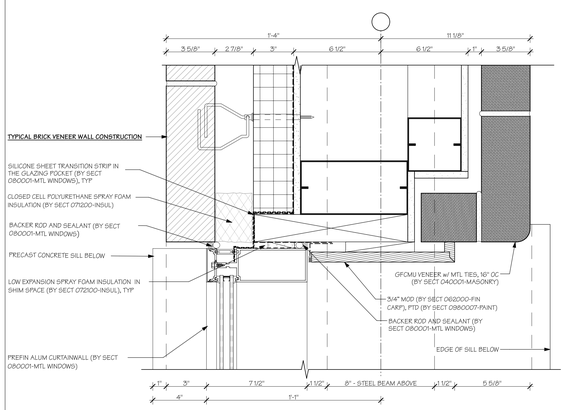
1 **CW Head @ Canopy**
SCALE: 3" = 1'-0"



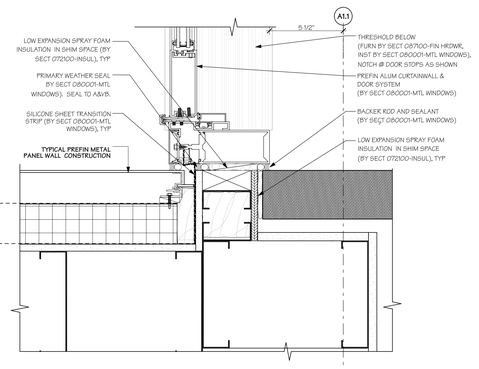
4 **CW- PREFINISHED CMP @ HEAD (GYM)**
SCALE: 3" = 1'-0"



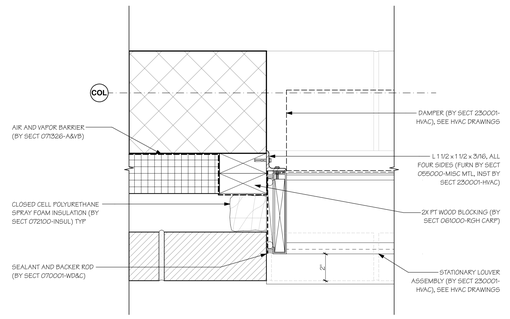
6 **CW-Horiz Mullion - Louver Head**
SCALE: 3" = 1'-0"



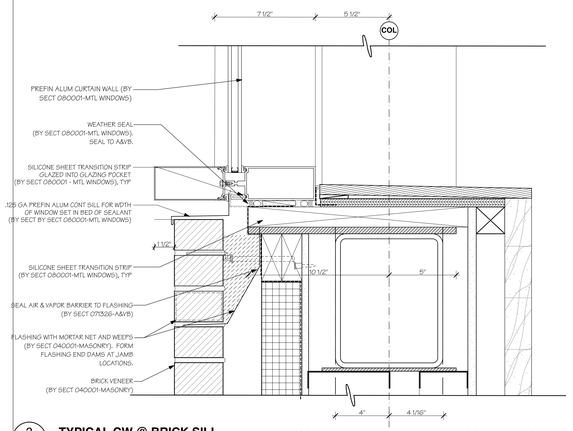
2 **TYPICAL CW @ BRICK JAMB**
SCALE: 3" = 1'-0"



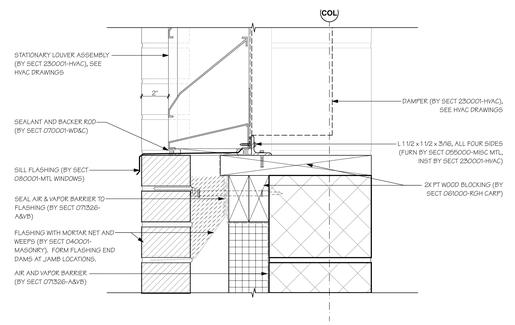
5 **CW - PREFINISHED CMP @ JAMB**
SCALE: 3" = 1'-0"



7 **CW-Vert Mullion - Louver Jamb**
SCALE: 3" = 1'-0"



3 **TYPICAL CW @ BRICK SILL**
SCALE: 3" = 1'-0"



8 **CW-Horiz Mullion - Louver Sill**
SCALE: 3" = 1'-0"

AMESBURY ELEMENTARY SCHOOL

AMESBURY, MA

DINISCO DESIGN
architects + planners
99 Chauncy Street, Suite 901
Boston, MA 02111
(617) 426-2858

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Surveying & Engineers
1071 Worcester Road
Framingham, MA 01701
(508) 879-0030

Brown Sardina, Inc.
Landscape Architects
24 Roland Street
Boston, MA 02129
(617) 482-4703

Foley Buhl Roberts & Assoc., Inc.
Structural Engineers
2150 Washington Street
Newton, MA 02462
(617) 527-9600

Crabtree McGrath Assoc., Inc.
Food Service Consultants
161 West Main Street
Georgetown, MA 01833
(978) 352-8500

VAV International, Inc.
Mechanical Engineers
400 West Cummings Park S. 4700
Woburn, MA 01801
(781) 935-7228

Thompson Engineering Company, Inc.
Electrical Engineers
89 Newbury Street, Suite 103
Danvers, MA 01923
(617) 866-9066

Hancock Associates
Surveyor
185 Centre Street
Danvers, MA 09123
(978) 777-3050

EdVance Technology Design, Inc.
Technology Consultants
300 Brickstone Square, Suite 201
Andover, MA 01880
(978) 256-9900

KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 4 8

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Window Details

4.1.06

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DOOR SCHEDULE

DOOR NO.		DOOR							FRAME						NOTES/REMARKS
ROOM	#	TYPE	WIDTH	HT	THK	MAT	FIN	LABEL	HARDWARE SET	TYPE	MAT	FIN	HEAD	JAMB	THRESH	
001	1	G	6'-0"	8'-0"	2"	ALUM	-		EXAL 1	CW	ALUM	ALUM				CR, HC
001	2	G	6'-0"	8'-0"	2"	ALUM	-		AL1	CW	ALUM	ALUM				HC
002	1	G	6'-0"	8'-0"	2"	ALUM	-		AL3	CW	ALUM	ALUM				
002A	1	G	6'-0"	8'-0"	2"	ALUM	-		EXAL 1	CW	ALUM	ALUM				CR, HC
002A	2	G	6'-0"	8'-0"	2"	ALUM	-		AL1	CW	ALUM	ALUM				HC
004	1	A1	6'-0"	7'-0"	1 3/4"	WD	NAT		7	6	HM	PTD				
005A	1	B	3'-6"	8'-0"	1 3/4"	WD	NAT		10	1	HM	PTD				G90
005A	2	J	9'-0"	8'-0"	1 3/4"	WD	NAT		20	GWB-Cased	-	-				BARN DOOR
005A	3	B	3'-6"	8'-0"	1 3/4"	WD	NAT		10	1	HM	PTD				G90
006	1	A	3'-0"	7'-0"	1 3/4"	MTL	PTD		7	1M	HM	PTD				G90
009	1	-	4'-2"	5'-4"	1 3/4"	SS	-		24	-	SS	PTD				SS Roll-up shutter
009	2	-	3'-0"	7'-0"	2"	-	-			1M	HM	PTD				G90 Cased Opening
010	1	B	3'-0"	7'-0"	1 3/4"	MTL	PTD		1C	1M	HM	PTD				G90
011	1	A	3'-0"	7'-0"	1 3/4"	MTL	PTD		5A	1M	HM	PTD				G90
013	1	B	3'-6"	7'-0"	1 3/4"	MTL	PTD		11	1M	HM	PTD			-	
014	1	A	3'-0"	7'-0"	1 3/4"	MTL	PTD		8	1M	HM	PTD				G90
015	1	A1	6'-0"	7'-0"	1 3/4"	MTL	PTD		EX1	6M	HM	PTD				G90 Exterior Door
015	2	A	3'-6"	7'-0"	1 3/4"	MTL	PTD		6	1M	HM	PTD			-	G90
016	1	A	3'-6"	7'-0"	1 3/4"	MTL	PTD		6	1M	HM	PTD			-	G90
017	1	A1	6'-0"	7'-0"	1 3/4"	MTL	PTD		EX3	6M	HM	PTD				G90 Exterior Door CR
018	1	A	3'-0"	7'-0"	1 3/4"	MTL	PTD		1C	4	HM	PTD			-	NPH
019	1	B1	6'-0"	7'-0"	1 3/4"	WD	NAT		9	6	HM	PTD				G90
021	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT	60 Min	6	1F	HM	PTD				
022	1	A1	6'-0"	7'-0"	1 3/4"	WD	NAT		19	1	HM	PTD				
023	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		3	1	HM	PTD				
024	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	3	HM	PTD				
030	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
031	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
032	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		4	1	HM	PTD				CR
033	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
033A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90 NPH
034	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
034	2	B	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				Passage NPH
034A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90 NPH
035	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
035A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90 NPH
036	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		13	1	HM	PTD				
037	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		5B	1	HM	PTD				G90 NPH
038A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		3	1	HM	PTD				G90
038B	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		3	1	HM	PTD				G90
039	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
039	2	B	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				Passage NPH
039A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90 NPH
040	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
040A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90, NPH
041	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
041	2	B	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				Passage, NPH
041A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90, NPH
044	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
044	2	B	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				Passage, NPH
044A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90, NPH
046	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
046	2	B	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				Passage NPH
046A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90, NPH
047	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
047A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90, NPH
048	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		6	1	HM	PTD				
049	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	3	HM	PTD				NPH
050	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		13	1	HM	PTD				G90
051	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
051	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				Passage, NPH
051A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90, NPH
052	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
052A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90, NPH
053	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		13	1	HM	PTD				
054	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
054	2	B	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				Passage, NPH
054A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90, NPH
055	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
055A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90 NPH
056	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	4	HM	PTD				NPH
056	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1A	1	HM	PTD				NPH
101	1	G	6'-0"	8'-0"	2"	ALUM	-		EXAL1	CW	ALUM	ALUM				CR, HC
101	2	G	6'-0"	8'-0"	2"	ALUM	-		EXAL4	CW	ALUM	ALUM				
101	3	G	6'-0"	8'-0"	2"	ALUM	-		AL4	CW	ALUM	ALUM				CR, HC
101	4	G	6'-0"	8'-0"	2"	ALUM	-		AL5	CW	ALUM	ALUM				
102	1	F	3'-0"	8'-0"	2"	ALUM	-		16	CW	ALUM	-				WD door in CW Frame
103	1	L	8'-6 3/8"	10'-0"	2"	ALUM	-		24	GWB-Cased	-	-				Alum Frame Sliding Glass (Width & Ht are R.O.)
103	2	L	5'-10 1/2"	10'-0"	2"	ALUM	-		24	GWB-Cased	-	-				Alum Frame Sliding Glass (Width & Ht are R.O.)
104	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1B	3	HM	PTD				
105	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1B	3	HM	PTD				
106	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1B	3	HM	PTD				
107	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1C	3	HM	PTD				
107A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1C	9	HM	PTD				
107B	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90,NPH
108A	1	A1	6'-0"	7'-0"	1 3/4"	WD	NAT		14	1	HM	PTD				Bi-pass Doors in Cased Opening
109	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		5	1	HM	PTD				G90
110	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1B	1	HM	PTD				
111	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		5	1	HM	PTD				G90
112	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		12	1	HM	PTD				
114	1	A1	6'-0"	7'-0"	1 3/4"	WD	NAT		17	6M	HM	PTD				
114	2	G	6'-0"	8'-0"	2"	ALUM	-		AL3	CW	ALUM	ALUM				WD door in CW Frame
114	3	F	3'-0"	8'-0"	2"	ALUM	-		EXAL2	CW	ALUM	ALUM				
114	4	F	3'-0"	8'-0"	2"	ALUM	-		EXAL2	CW	ALUM	ALUM				
115	1	B	3'-0"	7'-0"	1 3/4"	WD	NAT		1C	1M	HM	PTD				
116	1	A	3'-6"	7'-0"	1 3/4"	WD	NAT		13	1M	HM	PTD				
117	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		13	1	HM	PTD				G90
124	1	B	3'-0"	7'-0"	1 3/4"	WD	NAT		18	1A	HM	PTD				Acoustic
130	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		18	4A	HM	PTD				Acoustic
130	1	B	3'-0"	7'-0"	1 3/4"	WD	NAT		18	1A	HM	PTD				Acoustic
130	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		18	4A	HM	PTD				Acoustic
131	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
131	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				

DOOR SCHEDULE

DOOR NO.		DOOR							FRAME						NOTES/REMARKS
ROOM	#	TYPE	WIDTH	HT	THK	MAT	FIN	LABEL	HARDWARE SET	TYPE	MAT	FIN	HEAD	JAMB	THRESH	
131A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90, NPH
133	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		3	1	HM	PTD				G90
134	1	B	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
134	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2	1	HM	PTD				Passage
135	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
137	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		5	1	HM	PTD				G90
138	1	B	3'-0"	7'-0"	1 3/4"	WD	NAT		1	1	HM	PTD				
138	2	B	3'-0"	7'-0"	1 3/4"	WD	NAT		2	4	HM	PTD				
139	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
139	2	B	3'-0"	7'-0"	1 3/4"	WD	NAT		2	1	HM	PTD				Passage
140	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
141	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	1	HM	PTD				
141	2	B	3'-0"	7'-0"	1 3/4"	WD	NAT		2	1	HM	PTD				Passage
142	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		13	1	HM	PTD				G90
143	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	3	HM	PTD				
144	1	B	3'-0"	7'-0"	1 3/4"	WD	NAT		1	3	HM	PTD				
144	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2	1	HM	PTD				
145	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
146	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
146	2	B	3'-0"	7'-0"	1 3/4"	WD	NAT		2	1	HM	PTD				Passage
147	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	1	HM	PTD				
148D	1	A	3'-0"	7'-0"	1 3/4"	MTL	PTD		12	1	HM	PTD				
148E	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		6	1	HM	PTD				
149	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	3	HM	PTD				
150	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		3	1	HM	PTD				G90
151	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
151	2	B	3'-0"	7'-0"	1 3/4"	WD	NAT		2	1	HM	PTD				
152	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
153	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	3	HM	PTD				
154	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		13	1	HM	PTD				
154	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		13	1	HM	PTD				
155	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	3	HM	PTD				
156	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		13	1	HM	PTD				
157	1	B	3'-0"	7'-0"	1 3/4"	WD	NAT		15	2	HM	PTD				
158	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		15	3	HM	PTD				
159	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		15	3	HM	PTD				
160	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		15	3	HM	PTD				
161	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		15	3	HM	PTD				
161	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		15	3	HM	PTD				
201	1	G	6'-0"	8'-0"	2"	ALUM	-		AL3	CW	ALUM	-				WD Door in CW Frame
201	2	G	6'-0"	8'-0"	2"	ALUM	-		AL3	CW	ALUM	-				WD Door in CW Frame
202	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	1	HM	PTD				WD Door in CW Frame
222	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
223	1	A1	6'-0"	7'-0"	1 3/4"	WD	NAT	90 Min	19	6F	HM	PTD				2HR Rated Wall
224	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		13	1	HM	PTD				G90
230	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	3	HM	PTD				
230	2	F	3'-0"	8'-0"	2"	ALUM	-		EXAL5	CW	ALUM	ALUM				Exterior Alum Door to roof garden
232	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		3	1	HM	PTD				G90
232A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		13	1	HM	PTD				
233	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
233	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		13	1	HM	PTD				
233	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2	1	HM	PTD				Passage
233	3	F	3'-0"	8'-0"	2"	ALUM	-		EXAL5	CW	ALUM	ALUM				Exterior Alum Door to roof garden
234	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
235	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
237	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		5	1	HM	PTD				G90
238	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		13	1	HM	PTD				
239	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
239	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2	1	HM	PTD				Passage
240	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
241	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
241	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2	1	HM	PTD				Passage
242	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		13	1	HM	PTD				G90
243	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	3	HM	PTD				
244	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	3	HM	PTD				
244	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2	1	HM	PTD				Passage
245	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
246	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
246	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2	1	HM	PTD				Passage
247	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
248D	1	A	3'-0"	7'-0"	1 3/4"	MTL	PTD		12	1	HM	PTD				
248E	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		6	1	HM	PTD				
249	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	3	HM	PTD				
250	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		3	1	HM	PTD				G90
251	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
251	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2	1	HM	PTD				Passage
252	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
253	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	4	HM	PTD				
253	2	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2	1	HM	PTD				
253A	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		2A	1	HM	PTD				G90, NPH
254	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	3	HM	PTD				
255	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		1	3	HM	PTD				
C003	1	A1	7'-0"	8'-0"	1 3/4"	WD	PTD		22	6	HM	PTD				Hold Open
C103	1	A1	7'-0"	8'-0"	1 3/4"	WD	NAT		22	6	-	-				CR, Hold Open
C113	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		16	1	HM	PTD				
C203	1	A1	7'-0"	8'-0"	1 3/4"	WD	NAT		22	1	HM	PTD				CR, Hold Open
SB00	1	A1	7'-0"	8'-0"	1 3/4"	WD	NAT	60 Min	21	7F	HM	PTD				CR, Hold Open
SB00	2	G	6'-0"	8'-0"	2"	ALUM	-		EXAL3	CW	ALUM	ALUM				CR
SB01	1	A1	7'-0"	8'-0"	1 3/4"	WD	NAT	60 Min	21	7F	HM	PTD				CR, Hold Open
SB02	1	A1	7'-0"	8'-0"	1 3/4"	WD	NAT	60 Min	21	7F	HM	PTD				CR, Hold Open
SC00	1	A1	7'-0"	7'-0"	1 3/4"	WD	NAT	60 Min	21	7F	HM	PTD				CR, Hold Open
SC00	2	G	6'-0"	8'-0"	2"	ALUM	-		EXAL3	CW	ALUM	-				CR
SC01	1	A1	7'-0"	7'-0"	1 3/4"	WD	NAT	60 Min	21	7F	HM	PTD				CR, Hold Open
SC02	1	A1	7'-0"	7'-0"	1 3/4"	WD	NAT	60 Min	21	7F	HM	PTD				CR, Hold Open
SD02	1	A	3'-0"	7'-0"	1 3/4"	WD	NAT		6	1	HM	PTD				
SD02	2	A	3'-0"	7'-0"	1 3/4"	MTL	PTD		EX2	1	HM	PTD				G90 Exterior Door
SD03	1	A	3'-6"	7'-0"	1 3/4"	MTL	PTD		EX2	1	HM	PTD				G90 Exterior Door

DOOR SCHEDULE LEGEND

CR: Card Reader / Electronic Hardware
HC: Door Operators & Actuators
NPH: Non-pinch Hinges (No Stop rabbet on hinge side of frame)
G90: Hot Dipped Galvanized Frame (& Door if MTL)

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: TJM

Scale:

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Door Schedule

4.2.01

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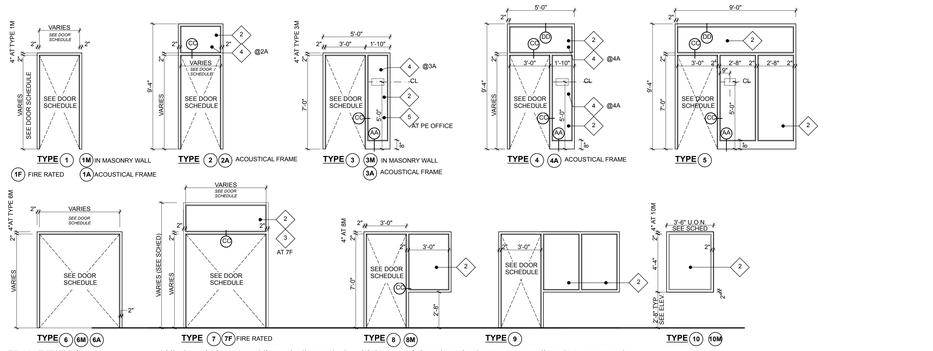
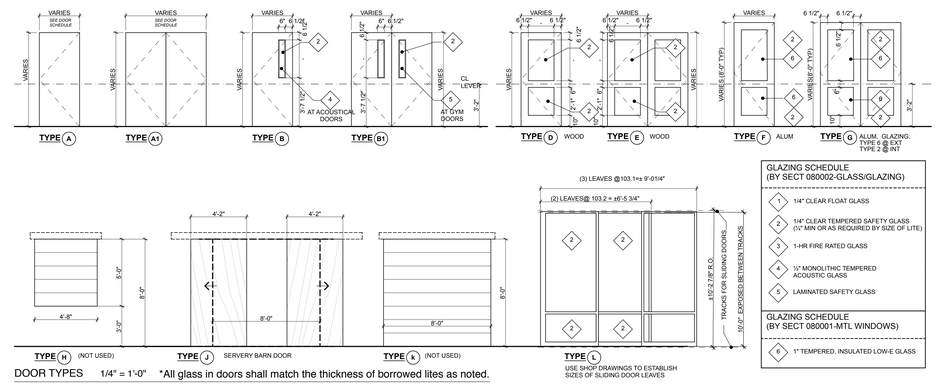
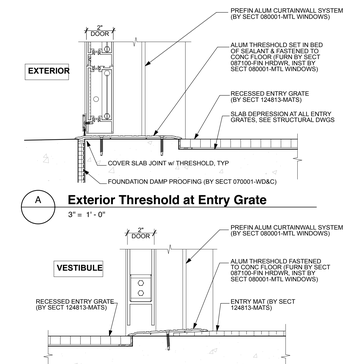


FRAME TYPES 1/4" = 1'-0" *All glass in borrowed lites shall match the thickness of the glass in the corresponding door as noted.

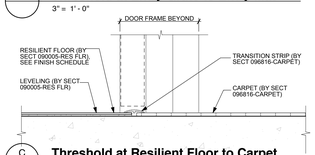


DOOR TYPES 1/4" = 1'-0" *All glass in doors shall match the thickness of borrowed lites as noted.

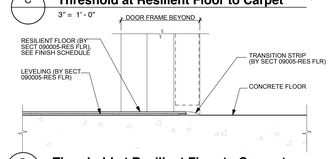


A **Exterior Threshold at Entry Grate**
3" = 1' - 0"

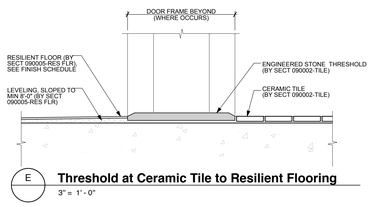
B **Threshold at Entry Grate to Entry Mat**
3" = 1' - 0"



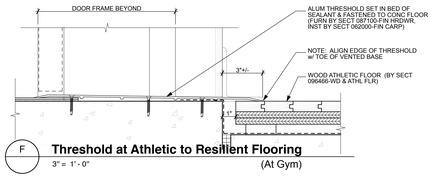
C **Threshold at Resilient Floor to Carpet**
3" = 1' - 0"



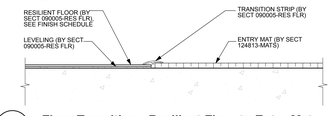
D **Threshold at Resilient Floor to Concrete**
3" = 1' - 0"



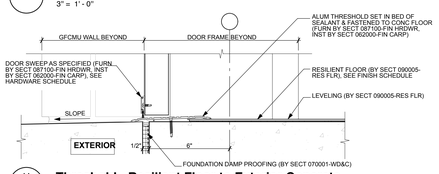
E **Threshold at Ceramic Tile to Resilient Flooring**
3" = 1' - 0"



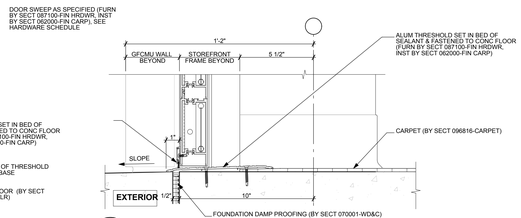
F **Threshold at Athletic to Resilient Flooring**
3" = 1' - 0" (At Gym)



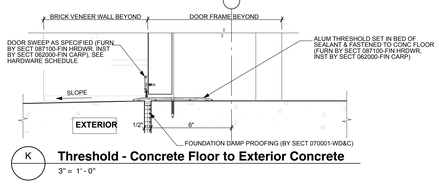
G **Floor Transition - Resilient Floor to Entry Mat**
3" = 1' - 0"



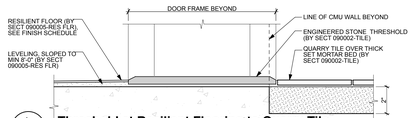
H **Threshold - Resilient Floor to Exterior Concrete**
3" = 1' - 0"



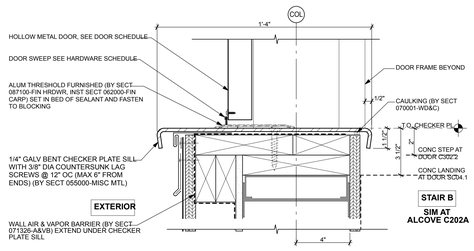
J **Threshold - Carpet to Exterior Concrete**
3" = 1' - 0"



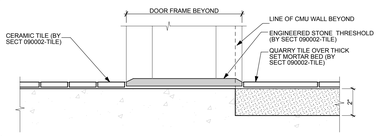
K **Threshold - Concrete Floor to Exterior Concrete**
3" = 1' - 0"



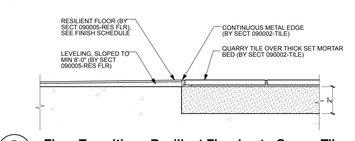
L **Threshold at Resilient Flooring to Quarry Tile**
3" = 1' - 0"



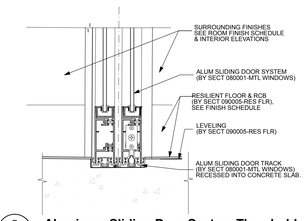
M **Sill at Roof Access door**
3" = 1' - 0"



N **Threshold at Ceramic Tile to Quarry Tile**
3" = 1' - 0"



P **Floor Transition - Resilient Flooring to Quarry Tile**
3" = 1' - 0"



Q **Aluminum Sliding Door System Threshold**
3" = 1' - 0"

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KEY PLAN

NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By: TJM

Scale: AS NOTED

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Door Details & Elevations

4.2.02

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FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WAINSCOT		WALLS								CEILING		NOTES/REMARKS
						NORTH		EAST		SOUTH		WEST				
				FIN	HT	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	HT	
001	VESTIBULE	GRILLE	RCB	PORC	4'-0"	GWB/ PORC	PTD	GWB/ PORC	PTD	GWB	-/PTD	GWB	PTD	ATC-1A	11'-0"	
002	CAFETERIA	LCT	RCB	CT	8'-0"	GWB	PTD	GWB; WD PNL	PTD; CLR	GWB	PTD	GWB; CT	-/PTD	ATC-1B; GWB; *	11'-0"	* GWB ACOUSTIC CEILING, EXPOSED STRUCTURE & UNDERSIDE OF DECK TO BE PAINTED
002A	VESTIBULE	MAT	RCB		0"					WD PNL	CLR			ATC-1	11'-0"	
003	PLATFORM	WOOD	VRB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3A	12'-1"	
003A	RAMP	LCT	RCB	-	4'-0"	WD PNL	CLR	-		GWB	PTD			ATC-1B	11'-0"	
004	STORAGE	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	10'-0"	
005	KITCHEN	QT	QT		0"	CMU	GWF	CT/GWB	PTD	-		CMU	GWF	ATC-2	10'-0"	
005A	SERVERY	QT	QT		0"	CMU	GWF	CT/GWB	PTD	CMU	GWF	CT/GWB	PTD	ATC-2	10'-0"	
006	DRY STORAGE	QT	QT		0"	CMU	GWF	CMU	GWF	CMU	GWF	CMU	GWF	ATC-2	10'-0"	
007	COOLER	QT	QT		0"	-		-		-		-			0"	QUARRY TILE FLOOR & BASE. ALL OTHER FINISHES BY SECTION 114000-FOOD SERVICE
008	FREEZER	QT	QT		0"	-		-		-		-			0"	QUARRY TILE FLOOR & BASE ALL OTHER FINISHES BY SECTION 114000-FOOD SERVICE
009	RECYCLE ROOM	QT	QT		0"	CMU	GWF	CMU	GWF	CMU	GWF	CMU	GWF	ATC-2	10'-0"	
010	OFFICE	QT	QT		0"	CMU	GWF	CMU	GWF	CMU	GWF	CMU	GWF	ATC-2	8'-0"	
011	TOILET	QT	QT		0"	CMU	GWF	CMU	GWF	CMU	GWF	CMU	GWF	ATC-2	8'-0"	
0012	MOP	QT	QT		0"	CMU	GWF	CMU	GWF	CMU	GWF	CMU	GWF	ATC-2	10'-0"	
013	RECYCLING -TRASH	CONC			0"	CMU	PTD	CMU	PTD	CMU	PTD	CMU	PTD	*	0"	* CEILING OPEN TO DECK (PAINTED)
014	MAIN-ELEC	CONC			0"	CMU	PTD	CMU	PTD	CMU	PTD	CMU	PTD	*	0"	* CEILING OPEN TO DECK (PAINTED)
015	MECH	CONC			0"	CMU	PTD	CMU	PTD	CMU	PTD	CMU	PTD	*	0"	* CEILING OPEN TO DECK (PAINTED)
016	SPRINKLER	CONC			0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	* CEILING OPEN TO DECK (PAINTED)
017	RECEIVING -STOREROOM	CONC			0"	CMU	PTD	CMU	PTD	CMU	PTD	CMU	PTD	*	0"	* CEILING OPEN TO DECK (PAINTED)
018	CUSTODIAN-OFFICE	LCT	RCB		0"	CMU	PTD	CMU	PTD	CMU	PTD	CMU	PTD	ATC-1	10'-8"	
019	CUSTODIAN-WORKSHOP	CONC			0"	CMU	PTD	CMU	PTD	CMU	PTD	CMU	PTD	*	0"	*1HR GWB CEILING AT BOTTOM OF MECHANICAL SHAFT OTHERWISE: CEILING OPEN TO DECK (PAINTED)
020B	BOYS	CT	CT	CT	4'-0"	CT/GWB	PTD	CT/GWB	PTD	CT/GWB	PTD	CT/GWB	PTD	ATC-1A	8'-0"	FULL HEIGHT TILE AT WET WALL
020G	GIRLS	CT	CT	CT	4'-0"	CT/GWB	PTD	CT/GWB	PTD	CT/GWB	PTD	CT/GWB	PTD	ATC-1A	8'-0"	FULL HEIGHT TILE AT WET WALL
021	ECR	CONC	RCB		0"	CMU	PTD	CMU	PTD	CMU	PTD	CMU	PTD	ATC-3	8'-0"	
021A	ELEVATOR	RUB	RCB		0"	-		-		-		-		*	0"	* RUB FLOOR & RCB BASE. ALL OTHER ELEVATOR CAB FINISHES BY SECTION 140001-ELEVATORS
022	EE	CONC	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	* CEILING OPEN TO DECK (UNPAINTED)
023	STAFF	CT	CT		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
024	TEACHER DINING / WORKROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
030	RISE-SMALL GROUP	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
031	RISE MOTOR RM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
032	NETWORK	CONC	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	* CEILING OPEN TO DECK (UNPAINTED)
033	PRE K	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
033A	TOILET	CT	CT	CT	4'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
034	PRE K	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
034A	TOILET	CT	CT	CT	4'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
035	PRE K	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
035A	TOILET	CT	CT	CT	4'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
036	STORAGE	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
037	TOILET	CT	CT		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
038A	STAFF	CT	CT	CT	4'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
038B	STAFF	CT	CT		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
039	KINDERGARTEN	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
039A	TOILET	CT	CT	CT	4'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
040	KINDERGARTEN	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
040A	TOILET	CT	CT	CT	4'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
041	KINDERGARTEN	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
041A	TOILET	CT	CT	CT	4'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
044	KINDERGARTEN	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
044A	TOILET	CT	CT	CT	4'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
046	KINDERGARTEN	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
046A	TOILET	CT	CT	CT	4'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
047	KINDERGARTEN	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
047A	TOILET	CT	CT	CT	4'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
048	ELEC	CONC	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	
049	SMALL GROUP	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
050	CUST	CONC	RCB	FRP	5'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	10'-6"	FRP AT MOP SINK WALLS ONLY
051	KINDERGARTEN	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
051A	TOILET	CT	CT	CT	4'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
052	KINDERGARTEN	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
052A	TOILET	CT	CT	CT	4'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
053	STORAGE	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
054	RISE JR.	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
054A	TOILET	CT	CT	CT	4'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
055	RISE	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
055A	TOILET	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
056	QUIET ROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	9'-8"	
101	VEST	GRILLE	RCB	PORC	4'-0"	-		GWB/ PORC	PTD	-		PHEN		ATC-1A	11'-10"	
102	MAIL-DUPLICATE-RECORDS	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
103	GENERAL OFFICE	CPT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
104	PRINCIPAL	CPT	SRB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
105	OFFICE	CPT	SRB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
106	CONFERENCE ROOM	CPT	SRB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
107	NURSE	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
107A	NURSE OFFICE	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
107B	NURSE- TOILET	CT	CT	CT	4'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
108	KITCHENETTE	CPT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
108A	CLOSET	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
109	TOILET	CT	CT		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
110	SW/GUID	CPT	SRB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
111	TOILET	CT	CT	CT	4'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	

FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WAINSCOT		WALLS								CEILING		NOTES/REMARKS
						NORTH		EAST		SOUTH		WEST				
				FIN	HT	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	HT	
112	DATA	CONC	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	*EXPOSED STRUCTURE (PAINTED)
114	GYMNASIUM	WOOD	VCB		0"	FWP/ GFCMU		FWP/ GFCMU		FWP/ GFCMU		FWP/ GFCMU		*	0"	*EXPOSED STRUCTURE & UNDERSIDE OF DECK (PAINTED), FIBROUS WOOD PANELS (FWP)
115	PE OFFICE	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
116	GYM-STORAGE	CONC	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	*EXPOSED STRUCTURE (PAINTED)
117	CUST	CONC	RCB	FRP	5'-0"	GWB	PTD	GWB	PTD	GWB; CT	PTD	GWB; CT	PTD	ATC-3; *	0"	FRP AT MOP SINK WALLS ONLY
120B	BOYS	CT	CT	CT	4'-0"	GWB; CT	PTD	GWB; CT	PTD	GWB; CT	PTD	GWB; CT	PTD	ATC-1A	8'-0"	FULL HEIGHT TILE AT WET WALL
120G	GIRLS	CT	CT	CT	4'-0"	CT/GWB	PTD	CT/GWB	PTD	CT/GWB	PTD	CT/GWB	PTD	ATC-1A	8'-0"	FULL HEIGHT TILE AT WET WALL
124	PRACTICE	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	FABRIC WRAPPED ACOUSTICAL PANELS AT APPROX. 8'-8" A.F.F.
130	MUSIC	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	FABRIC WRAPPED ACOUSTICAL PANELS AT APPROX. 8'-8" A.F.F.
130A	PRACTICE	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	FABRIC WRAPPED ACOUSTICAL PANELS AT APPROX. 8'-8" A.F.F.
131	ISN	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
131A	TOILET	CT	CT	CT	4'-0"	GWB; CT	PTD	GWB; CT	PTD	GWB; CT	PTD	GWB; CT	PTD	ATC-3	8'-0"	
133	STAFF	CT	CT		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
134	CLASSROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
135	CLASSROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
136B	BOYS	CT	CT	CT	4'-0"	GWB; CT	PTD	GWB; CT	PTD	GWB; CT	PTD	GWB; CT	PTD	ATC-1A	8'-0"	FULL HEIGHT TILE AT WET WALL
136G	GIRLS	CT	CT	CT	4'-0"	GWB; CT	PTD	GWB; CT	PTD	GWB; CT	PTD	GWB; CT	PTD	ATC-1A	8'-0"	FULL HEIGHT TILE AT WET WALL
137	TOILET	CT	CT	CT	4'-0"	GWB; CT	PTD	GWB; CT	PTD	GWB; CT	PTD	GWB; CT	PTD	ATC-3	8'-0"	
138	QUIET ROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	8'-0"	
139	CUBS	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
140	CLASSROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
141	CLASSROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
142	CUST	CONC	RCB	FRP	5'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	FRP AT MOP SINK WALLS ONLY *EXPOSED STRUCTURE (PAINTED)
143	SMALL GROUP	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
144	RESOURCE ROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
145	STUDENT SUPPORT	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
146	CLASSROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
147	LITERACY LIBRARY	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
148D	DATA	CONC	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	*EXPOSED STRUCTURE (PAINTED)
148E	ELEC	CONC	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	*EXPOSED STRUCTURE (PAINTED)
149	SLP	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
150	STAFF	CT	CT		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
151	CLASSROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
152	CLASSROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
153	OT	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
154	OT/PT STRG	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	10'-6"	
155	PT	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
156	STORAGE	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	9'-6"	
157	ADJ COUN	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
158	PSYC.	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
159	BCBA	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
160	SPED FACIL	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
161	SPED CONF	CPT	SRB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
201	MEDIA CENTER	CPT	SRB		0"	GWB; PHEN	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1B	13'-0"	WEST WALL TO BE PHENOLIC PANEL SYSTEM
202	WORK ROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1B	13'-0"	
220B	BOYS	CT	CT	CT	4'-0"	CT/GWB	PTD	CT/GWB	PTD;	CT/GWB	PTD;	CT/GWB	PTD	ATC-1A	8'-0"	FULL HEIGHT TILE AT WET WALL
220G	GIRLS	CT	CT	CT	4'-0"	CT/GWB	PTD	CT/GWB	PTD;	CT/GWB	PTD;	CT/GWB	PTD	ATC-1A	8'-0"	FULL HEIGHT TILE AT WET WALL
222	TITLE 1	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
223	BDA	CONC	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	*CEILING OPEN TO DECK ABOVE (UNPAINTED)
224	CUST	CONC	RCB	FRP	5'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	FRP AT MOP SINK WALLS ONLY *CEILING OPEN TO DECK ABOVE (PAINTED)
230	TEACHER DINING/ WORKROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
232	STAFF	CT	CT		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
232A	STOR.	CONC	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	9'-6"	
233	ART	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
233A	ART STOR	CONC	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	9'-6"	
234	STE/ ENGINEERING	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
235	CLASSROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
236B	BOYS	CT	CT	CT	4'-2"	CT/GWB	PTD;	CT/GWB	PTD;	CT/GWB	PTD;	FWP/ GFCMU	PTD	ATC-1A	8'-0"	FULL HEIGHT TILE AT WET WALL
236G	GIRLS	CT	CT	CT	4'-2"	CT/GWB	PTD;	CT/GWB	PTD;	CT/GWB	PTD;	CT/GWB	PTD	ATC-1A	8'-0"	FULL HEIGHT TILE AT WET WALL
237	TOILET	CT	CT	CT	4'-0"	GWB; CT	PTD	GWB; CT	PTD	GWB; CT	PTD	GWB; CT	PTD	ATC-3	8'-0"	
238	STRG	CONC	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-2	8'-0"	
239	LANGUAGE BASED PROGRAM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
240	CLASSROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
241	CLASSROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
242	CUST.	CONC	RCB	FRP	5'-0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	FRP AT MOP SINK WALLS ONLY, * CEILING OPEN TO DECK ABOVE (PAINTED)
243	SMALL GROUP	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
244	RESOURCE ROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
245	STUDENT SUPPORT	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
246	CLASSROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
247	CLASSROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
248D	DATA	CONC	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	*CEILING OPEN TO DECK ABOVE (PAINTED)
248E	ELEC	CONC	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	*CEILING OPEN TO DECK ABOVE (PAINTED)
249	SLP	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
250	STAFF	CT	CT		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
251	CLASSROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
252	CLASSROOM	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
253	NAS	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
253A	TOILET	CT	CT		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-3	8'-0"	
254	SMALL GROUP	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
255	EL	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
C001	LOWER LOBBY	LCT	RCB	PORC	4'-0"	GWB/ PORC	PTD	-		GWB/ PORC; WD PNL	PTD; CLR			ATC-1A	11'-0"	

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KEY PLAN

NORTH ARROW *STAMP*

Date: 15 MAY 2020

Drawn By: TJM

Scale: NTS

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Room Finish Schedule

4.3.01

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FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WAINSCOT		WALLS								CEILING		NOTES/REMARKS
						NORTH		EAST		SOUTH		WEST				
				FIN	HT	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	HT	
C001A	ALCOVE	LCT	RCB	PORC	4'-0"	GWB; PORC	PTD	WD PNL	CLR	GWB; PORC	PTD	GWB; PORC	PTD	GWB	9'-6"	
C002	CORRIDOR	LCT	RCB	PORC	4'-0"	GWB; PORC	PTD	GWB; PORC	PTD	-		GWB; PORC	PTD	ATC-1A	11'-0"	
C003	CORRIDOR	LCT	RCB	CT	4'-0"	-		CT/GWB	PTD	-		CT/GWB	PTD	ATC-1A	9'-6"	
C003A	PROJECT AREA	LCT	RCB	CT	4'-0"	CT/GWB	PTD	-		CT/GWB	PTD	CT/GWB	PTD	ATC-1A	9'-6"	
C003B	ALCOVE	LCT	RCB	CT	4'-0"	CT/GWB	PTD	CT/GWB	PTD	CT/GWB	PTD			GWB	9'-6"	
C004	CORRIDOR	LCT	RCB		0"	-		-		-		-		ATC-1A	11'-0"	
C004A	PROJECT AREA	LCT	RCB	CT	4'-0"	GWB	PTD	-		CT/GWB	PTD;	GWB	PTD	ACT-4; GWB	10'-0"	* CLOUD @ 10'-0", GWB SOFFIT @ 9'-4"
C004B	PROJECT AREA	LCT	RCB	CT	4'-0"	GWB	PTD	GWB	PTD	CT/GWB	PTD;			ACT-4; GWB	10'-0"	* CLOUD @ 10'-0", GWB SOFFIT @ 9'-4"
C005	CORRIDOR	LCT	RCB	CT	4'-0"	-		CT/GWB	PTD	-		CT/GWB	PTD	ATC-1A	9'-6"	
C006	CORRIDOR	LCT	RCB		0"	-		-		-		-		ATC-1A	11'-0"	
C006A	PROJECT AREA	LCT	RCB	CT	4'-0"	CT/GWB	PTD	-		GWB	PTD	GWB	PTD	ACT-4; GWB	10'-0"	* CLOUD @ 10'-0", GWB SOFFIT @ 9'-4"
C006B	PROJECT AREA	LCT	RCB	CT	4'-0"	CT/GWB	PTD	GWB	PTD	GWB	PTD			ACT-4; GWB	10'-0"	* CLOUD @ 10'-0", GWB SOFFIT @ 9'-4"
C007	CORRIDOR	LCT	RCB	CT	4'-0"	-		CT/GWB	PTD	-		CT/GWB	PTD	ATC-1A	9'-6"	
C101	MAIN LOBBY	LCT	RCB	PORC	4'-0"	PHEN		GWB; PORC	PTD	-		GWB; PORC; PHEN	PTD	ATC-1A	11'-6"	
C101A	ALCOVE	LCT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1A	10'-6"	
C102	CORRIDOR	LCT	RCB	PORC	4'-0"	GWB; PORC	PTD	-		GWB; PORC	PTD	GWB; PORC	PTD	ATC-1A	11'-6"	
C102A	GYM CORRIDOR	LCT	RCB	PORC	4'-0"	-		GWB; PORC	PTD	GWB; PORC	PTD	GWB; PORC	PTD	ATC-1A	11'-6"	
C103	CORRIDOR	LCT	RCB	CT	4'-0"	-		CT/GWB	PTD	-		CT/GWB	PTD	ATC-1A	9'-6"	
C104	CORRIDOR	LCT	RCB		0"	-		-		-		-		ATC-1; ATC-1A	11'-0"	
C104A	PROJECT AREA	LCT	RCB		4'-0"	GWB; CT/GWB	PTD			GWB; PHEN	PTD	GWB	PTD	ACT-4; GWB	10'-0"	* CLOUD @ 10'-0" GWB SOFFIT @ 9'-4"
C104B	PROJECT AREA	LCT	RCB		4'-0"	GWB; CT/GWB	PTD	GWB	PTD	GWB; PHEN	PTD	-		ACT-4; GWB	10'-0"	* CLOUD @ 10'-0" GWB SOFFIT @ 9'-4"
C105	CORRIDOR	LCT	RCB	CT	4'-0"	-		CT/GWB	PTD	-		CT/GWB	PTD	ATC-1A	9'-6"	
C106	CORRIDOR	LCT	RCB		0"	-		-		-		-		ATC-1; ATC-1A	11'-0"	
C106A	PROJECT AREA	LCT	RCB		4'-0"	GWB; PHEN	PTD			GWB; CT/GWB	PTD	GWB	PTD	ACT-4; GWB	10'-0"	* CLOUD @ 10'-0" GWB SOFFIT @ 9'-4"
C106B	PROJECT AREA	LCT	RCB		4'-0"	GWB; PHEN	PTD	GWB	PTD	GWB; CT/GWB	PTD	-		ACT-4; GWB	10'-0"	* CLOUD @ 10'-0" GWB SOFFIT @ 9'-4"
C107	CORRIDOR	LCT	RCB	CT	4'-0"	-		CT/GWB	PTD	-		CT/GWB	PTD	ATC-1A	9'-6"	
C110	CORRIDOR	LCT	RCB	CT	4'-0"	CT/GWB	PTD;	CT/GWB	PTD;	CT/GWB	PTD;	CT/GWB	PTD	ATC-1A	10'-6"	
C113	CORRIDOR	CPT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
C113	CORRIDOR	CPT	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ATC-1	10'-6"	
C201	UPPER LOBBY	LCT	RCB	PORC	4'-0"	GWB; PORC	PTD	GWB; PORC	PTD	GWB; PORC	PTD	GWB; PORC	PTD	ATC-5	11'-0"	
C202	CORRIDOR	LCT	RCB	PORC	4'-0"	GWB; PORC	PTD;	-		GWB; PORC	PTD	GWB; PORC	PTD	ATC-5	11'-0"	
C203	CORRIDOR	LCT	RCB	CT	4'-0"	-		GWB	PTD	-		GWB	PTD	ATC-1	9'-6"	
C204	CORRIDOR	LCT	RCB		0"	-		GWB	PTD	-		GWB	PTD	ATC-1	11'-0"	
C204A	PROJECT AREA	LCT	RCB		4'-0"	GWB; CT/GWB	PTD			GWB; PHEN	PTD	GWB	PTD	ACT-4; GWB; *	10'-0"	* CLOUD @ 10'-0", GWB SOFFIT @ 9'-4"
C204B	PROJECT AREA	LCT	RCB		4'-0"	GWB; CT/GWB	PTD	GWB	PTD	GWB; PHEN	PTD			ATC-1; GWB; *	10'-0"	* CLOUD @ 10'-0", GWB SOFFIT @ 9'-4"
C205	CORRIDOR	LCT	RCB	CT	4'-0"	-		GWB	PTD	-		GWB	PTD	ATC-1	9'-6"	
C206	CORRIDOR	LCT	RCB		0"	-		GWB	PTD	-		GWB	PTD	ATC-1	11'-0"	
C206A	PROJECT AREA	LCT	RCB		4'-0"	GWB; PHEN	PTD			GWB; CT/GWB	PTD	GWB	PTD	ACT-4; GWB; *	10'-0"	* CLOUD @ 10'-0", GWB SOFFIT @ 9'-4"
C206B	PROJECT AREA	LCT	RCB		4'-0"	GWB; PHEN	PTD	GWB	PTD	GWB; CT/GWB	PTD			ACT-4; GWB; *	10'-0"	* CLOUD @ 10'-0", GWB SOFFIT @ 9'-4"
C207	CORRIDOR	LCT	RCB	CT	4'-0"	-		GWB	PTD	-		GWB	PTD	ATC-1	9'-6"	
SA01	STAIR A	RUB	RCB		0"	PHEN		-		-		-		GWB	0"	
SB00	STAIR B	LCT; RUB	RCB		0"	GWB	PTD;	GWB	PTD	CT		CT		ATC-1A; GWB	11'-0"	FULL HEIGHT TILE AT WEST & SOUTH WALLS
SB01	STAIR B	LCT	RCB		0"	GWB	PTD	GWB	PTD	CT		CT		ATC-1A; GWB	11'-6"	FULL HEIGHT TILE AT WEST & SOUTH WALLS
SB02	STAIR B	LCT; RUB	RCB		0"	GWB	PTD	GWB	PTD	CT		CT		ATC-1A; GWB	11'-6"	FULL HEIGHT TILE AT WEST & SOUTH WALLS
SC00	STAIR C	LCT; RUB	RCB		0"	GWB	PTD	GWB	PTD	CT		CT		ATC-1A; GWB	11'-6"	FULL HEIGHT TILE AT WEST & SOUTH WALLS
SC01	STAIR C	LCT; RUB	RCB		0"	GWB	PTD	GWB	PTD	CT		CT		ATC-1A; GWB	11'-8"	FULL HEIGHT TILE AT WEST & SOUTH WALLS
SC02	STAIR C	LCT; RUB	RCB		0"	GWB	PTD	GWB	PTD	CT		CT		ATC-1A; GWB	12'-11"	FULL HEIGHT TILE AT WEST & SOUTH WALLS
SD02	ROOF ACCESS STAIR	CONC	RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	*OPEN GRATE TREADS AT STAIR* SEALED CONCRETE AT STAIR LANDING *EXTERIOR MECHANICAL ROOF AREA
SD03	ROOF ACCESS STAIR		RCB		0"	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	*	0"	*OPEN GRATE TREADS AT STAIR *SEALED CONCRETE AT ROOF LANDING *EXTERIOR MECHANICAL ROOF AREA

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KEY PLAN

NORTH ARROW

STAMP

Date: 15 MAY 2020

Drawn By:

Scale: NTS

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Room Finish Schedule

4.3.02

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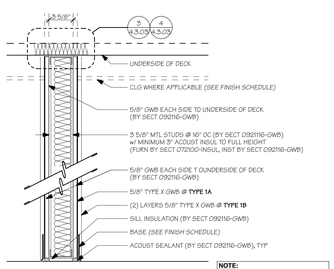


NOTE: REFER TO INTERIOR ELEVATIONS & FINISH SCHEDULE FOR CERAMIC TILE FINISH REQUIRING CEMENT BACKER BOARD

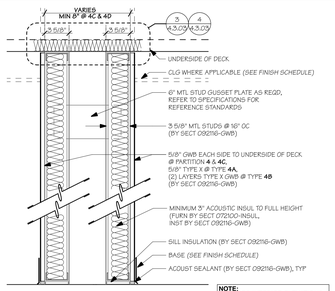
1 3 5/8" MTL Stud Partition

1A 3 5/8" MTL Stud Partition - 1 Hour Rated

1B 3 5/8" MTL Stud Partition - 2 Hour Rated

1C 3 5/8" MTL Stud Partition - Finish One Side Only

1D MTL Stud Furring - Finish One Side Only



NOTE: REFER TO INTERIOR ELEVATIONS & FINISH SCHEDULE FOR CERAMIC TILE FINISH REQUIRING CEMENT BACKER BOARD

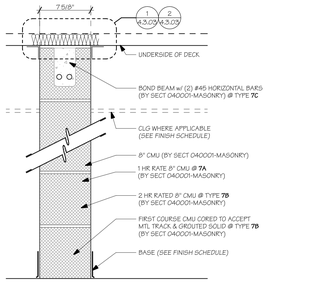
4 3 5/8" MTL Stud Chase Wall

4A 3 5/8" MTL Stud Chase Wall - 1 Hour Rated

4B 3 5/8" MTL Stud Chase Wall - 2 Hour Rated

4C 3 5/8" MTL Stud Chase Wall at Structural Bracing

4D 3 5/8" MTL Stud Chase Wall at Demising Wall

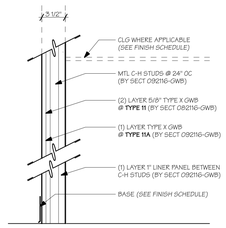


7 8" CMU Partition

7A 8" CMU Partition - 1 Hour Rated

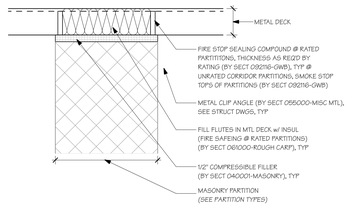
7B 8" CMU Partition - 2 Hour Rated

7C 8" CMU Additionally Reinforced Partition

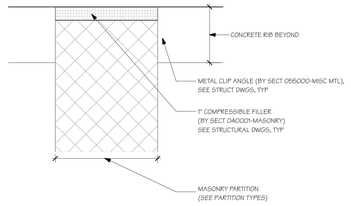


10 2 Hour Shaft Wall Fire Separation

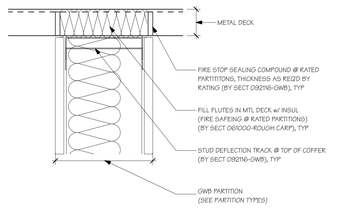
10A 1 Hour Shaft Wall Construction



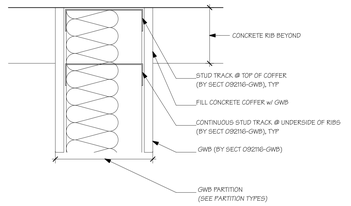
1 TYP **Top of CMU Partition @ MTL Deck, TYP**
SCALE: 3" = 1'-0"



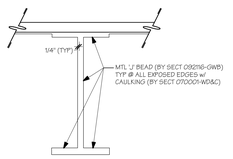
2 TYP **Top of CMU Partition @ CONC Deck, TYP**
SCALE: 3" = 1'-0"



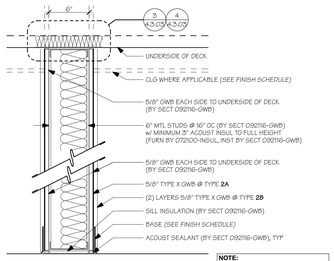
3 TYP **Top of MTL Stud Partition @ MTL Deck, TYP**
SCALE: 3" = 1'-0"



4 TYP **Top of MTL Stud Partition @ CONC Deck, TYP**
SCALE: 3" = 1'-0"



5 TYP **Exposed Beam Penetration**
SCALE: 1 1/2" = 1'-0"



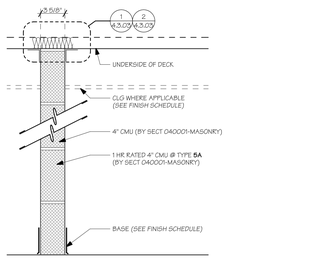
NOTE: REFER TO INTERIOR ELEVATIONS & FINISH SCHEDULE FOR CERAMIC TILE FINISH REQUIRING CEMENT BACKER BOARD

2 6" MTL Stud Partition

2A 6" MTL Stud Partition - 1 Hour Rated

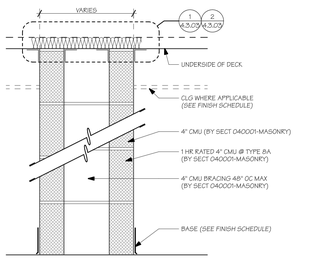
2B 6" MTL Stud Partition - 2 Hour Rated

2C 6" MTL Stud Partition - Finish One Side Only



5 4" CMU Partition

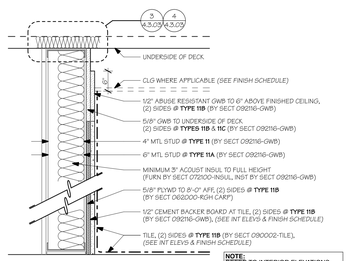
5A 4" CMU Partition - 1 Hour Rated



8 4" CMU Chase Wall

8A 4" CMU Chase Wall - 1 Hour Rated

8B 4" CMU Chase Wall - 2 Hour Rated



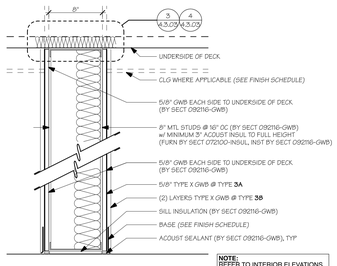
NOTE: REFER TO INTERIOR ELEVATIONS & FINISH SCHEDULE FOR TILE FINISH REQUIRING CEMENT BACKER BOARD

11 3 5/8" MTL Stud w/ Tile at Multifixture Toilet Rooms - One Side

11A 6" MTL Stud w/ Tile at Multifixture Toilet Rooms - One Side

11B 6" MTL Stud w/ Tile at Multifixture Toilet Rooms - Two Sides

11C 6" MTL Stud w/ Tile at Multifixture Toilet Rooms - One Side; GWB Opposite Side



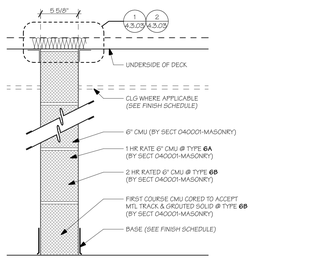
NOTE: REFER TO INTERIOR ELEVATIONS & FINISH SCHEDULE FOR CERAMIC TILE FINISH REQUIRING CEMENT BACKER BOARD

3 8" MTL Stud Partition

3A 8" MTL Stud Partition - 1 Hour Rated

3B 8" MTL Stud Partition - 2 Hour Rated

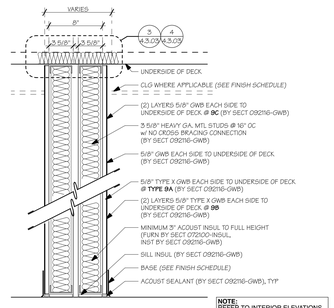
3C 8" MTL Stud Partition - Finish One Side Only



6 6" CMU Partition

6A 6" CMU Partition - 1 Hour Rated

6B 6" CMU Partition - 2 Hour Rated



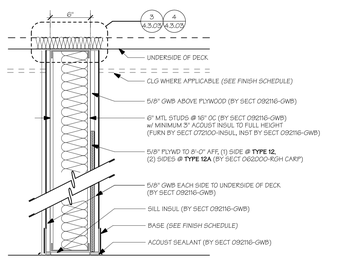
NOTE: REFER TO INTERIOR ELEVATIONS & FINISH SCHEDULE FOR CERAMIC TILE FINISH REQUIRING CEMENT BACKER BOARD

9 Acoustical Partition

9A Acoustical Partition - 1 Hour Rated

9B Acoustical Partition - 2 Hour Rated

9C Acoustical Partition - w/ 2 Layers of GWB



12 6" MTL Stud Partition w/ Plywood - One Side

12A 6" MTL Stud Partition w/ Plywood - Two Sides

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: BS

Scale: AS NOTED

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Wall Details & Partition Types

4.3.03

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REFLECTED CEILING PLAN LEGEND

- 2' x 2' (& 2' x 4') ACOUSTIC CEILING TILE SYSTEM (BY SECT 093003- ACOUST TILE)
- GYPSUM WALLBOARD CEILING (UNLESS OTHERWISE NOTED) (BY SECT 092116-GWB)
- PERF ACOUST MTL DECK, PRIMED (BY SECT 053100-MTL DECK), PTD (BY SECT 099027-PAINT)
- PREFIN WOOD VENEER CEILING PANELS (BY SECT 093003- ACOUST TILE)
- PREFIN VENEER PLYWOOD (BY SECT 062000-FIN CARP)
- PHENOLIC RAIN SCREEN PANEL (BY SECT 074255-PHENOLIC RAIN SCREEN SYSTEM)
- ARCHITECTURAL COVE OR SLOT (LENGTH VARIES, SEE CEILING PLANS)
- LINEAR PENDANT-MTD FIXTURE (LENGTH VARIES, SEE ELEC DWGS)
- SURFACE MOUNTED FIXTURE
- RECESSED FIXTURES
- WALL MOUNTED DIRECT/ INDIRECT FIXTURE
- PENDANT FIXTURE
- RECESSED OR SURFACE MOUNTED FIXTURE
- WALL MOUNTED LINEAR WALL WASH FIXTURE
- RECESSED FIXTURE WITH DECORATIVE GLASS SURROUND
- RECESSED LINEAR WALL WASH FIXTURE
- WALL WASH FIXTURE
- WALL SCONCE
- TRACK MOUNTED FIXTURE (NUMBER VARIES)
- WALL MOUNTED COVE LIGHT AT 'NODES'
- SURFACE MOUNTED FIXTURE AT CANOPY
- EXIT SIGNAGE LIGHT FIXTURE
- RECESSED SPEAKER
- HVAC SUPPLY AIR GRILL
- HVAC RETURN AIR GRILL
- HVAC LINEAR DIFFUSER
- HVAC LINEAR RETURN GRILL
- HVAC SIDEWALL MOUNTED SUPPLY AND RETURN AIR GRILLS ACCESS PANEL
- CUH — CABINET UNIT HEATER (CUH)
- UNIT HEATER (UH)
- CEILING MTD PROJECTOR
- SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- 4x4 HVAC GRILL/ INDUCTION UNIT
- 2X4 HVAC GRILL/ INDUCTION UNIT
- RECESSED CEILING INTERCOM SPEAKER
- INFRARED SENSOR
- RECESSED CEILING LIGHT SENSOR
- OCCUPANCY SENSOR
- SPEECH REINFORCEMENT SPEAKER
- WALL MTD SPEAKER
- X'-X" — CEILING HEIGHT (VARIES, SEE CEILING PLAN)
- (X'-X" AFF) — CEILING HEIGHT WITH ELEVATION (VARIES, SEE CEILING PLAN)
- A — RATED CEILING - (1) ONE HOUR
- B — RATED CEILING - (2) TWO HOUR

NORTH ARROW (Called North) | STAMP

Date: 15 MAY 2020

Drawn By: TLD

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Reflected Ceiling Plan Ground Floor

5.1.01

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ACOUSTICAL CEILING CONSTRUCTION BELOW TEACHER WORKROOM @ MUSIC & PRACTICE ROOM:
- 5 5/8" MTL SUITES SPANNING FROM BEAM WEB TO BEAM WEB @ 12" OC (BY SECT 092116-GWB)
- 5 1/2" ACOUSTIC INSULATION/FURN BY SECT 072100-INSUL, INST BY SECT 092116-GWB
- (2) LAYERS OF 5/8" GWB (BY SECT 092116-GWB)

REFLECTED CEILING PLAN LEGEND

- 2' x 2' (& 2' x 4') ACOUSTIC CEILING TILE SYSTEM (BY SECT 090005-ACOUST TILE)
- GYPSUM WALLBOARD CEILING (UNLESS OTHERWISE NOTED) (BY SECT 092116-GWB)
- PERF ACOUST MTL DECK, PRIMED (BY SECT 053100-MTL DECK), PTD (BY SECT 090007-PAINT)
- PREFIN WOOD VENEER CEILING PANELS (BY SECT 090005-ACOUST TILE)
- PREFIN VENEER PLYWOOD (BY SECT 062000-FIN CARP)
- PHENOLIC RAIN SCREEN PANEL (BY SECT 074233-PHENOLIC RAIN SCREEN SYSTEM)
- ARCHITECTURAL COVE OR SLOT (LENGTH VARIES), SEE CEILING PLANS)
- LINEAR PENDANT-MTD FIXTURE (LENGTH VARIES, SEE ELEC DWGS)
- SURFACE MOUNTED FIXTURE
- RECESSED FIXTURES
- WALL MOUNTED DIRECT/ INDIRECT FIXTURE
- PENDANT FIXTURE
- RECESSED OR SURFACE MOUNTED FIXTURE
- WALL MOUNTED LINEAR WALL WASH FIXTURE
- RECESSED FIXTURE WITH DECORATIVE GLASS SURROUND RECESSED LINEAR WALL WASH FIXTURE
- WALL WASH FIXTURE
- WALL SCONCE
- TRACK MOUNTED FIXTURE (NUMBER VARIES)
- WALL MOUNTED COVE LIGHT AT 'NODES'
- SURFACE MOUNTED FIXTURE AT CANOPY
- EXIT SIGNAGE LIGHT FIXTURE
- RECESSED SPEAKER
- HVAC SUPPLY AIR GRILL
- HVAC RETURN AIR GRILL
- HVAC LINEAR DIFFUSER
- HVAC LINEAR RETURN GRILL
- HVAC SIDEWALL MOUNTED SUPPLY AND RETURN AIR GRILLS ACCESS PANEL
- CUH — CABINET UNIT HEATER (CUH)
- UNIT HEATER (UH)
- CEILING MTD PROJECTOR
- SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- 4x4 HVAC GRILL/ INDUCTION UNIT
- 2X4 HVAC GRILL/ INDUCTION UNIT
- RECESSED CEILING INTERCOM SPEAKER
- INFRARED SENSOR
- RECESSED CEILING LIGHT SENSOR
- OCCUPANCY SENSOR
- SPEECH REINFORCEMENT SPEAKER
- WALL MTD SPEAKER
- X'-X" — CEILING HEIGHT (VARIES, SEE CEILING PLAN)
- (X'-X" AFF) — CEILING HEIGHT WITH ELEVATION (VARIES, SEE CEILING PLAN)
- A — RATED CEILING - (1) ONE HOUR
- B — RATED CEILING - (2) TWO HOUR

NORTH ARROW — STAMP

Date: 15 MAY 2020

Drawn By: TLD

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Reflected Ceiling Plan First Floor

5.1.02

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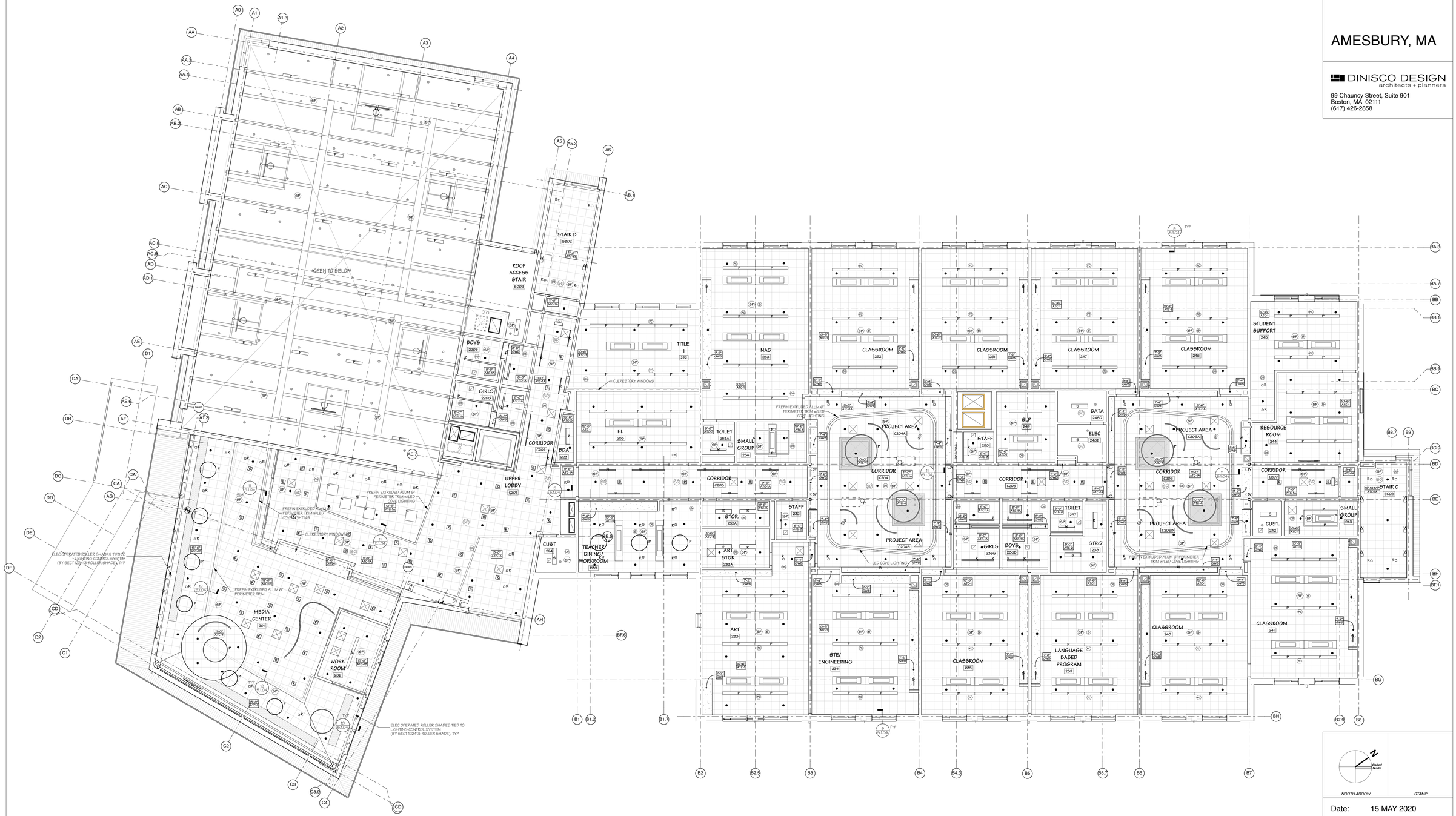

REFLECTED CEILING PLAN LEGEND

- 2' x 2' (& 2' x 4') ACOUSTIC CEILING TILE SYSTEM (BY SECT 090005-ACOUST TILE)
- GYPSUM WALLBOARD CEILING (UNLESS OTHERWISE NOTED) (BY SECT 092116-GWB)
- PERF ACOUST MTL DECK, PRIMED (BY SECT 055100-MTL DECK), PTD (BY SECT 090007-PAINT)
- PREFIN WOOD VENEER CEILING PANELS (BY SECT 090005-ACOUST TILE)
- PREFIN VENEER PLYWOOD (BY SECT 082000-FIN CAPT)
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- ARCHITECTURAL COVE OR SLOT (LENGTH VARIES, SEE CEILING PLANS)
- LINEAR PENDANT-MTD FIXTURE (LENGTH VARIES, SEE ELEC DWGS)
- SURFACE MOUNTED FIXTURE
- RECESSED FIXTURES
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- RECESSED OR SURFACE MOUNTED FIXTURE
- WALL MOUNTED LINEAR WALL WASH FIXTURE
- RECESSED FIXTURE WITH DECORATIVE GLASS SURROUND RECESSED LINEAR WALL WASH FIXTURE
- WALL WASH FIXTURE
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- TRACK MOUNTED FIXTURE (NUMBER VARIES)
- WALL MOUNTED COVE LIGHT AT 'NODES'
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- HVAC LINEAR RETURN GRILL
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- CUH — CABINET UNIT HEATER (CUH)
- UNIT HEATER (UH)
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- INFRARED SENSOR
- RECESSED CEILING LIGHT SENSOR
- OCCUPANCY SENSOR
- SPEECH REINFORCEMENT SPEAKER
- WALL MTD SPEAKER
- 9'-0" — CEILING HEIGHT (VARIES, SEE CEILING PLAN)
- CEILING HEIGHT WITH ELEVATION (VARIES, SEE CEILING PLAN) (9'-0" AFF)
- A — RATED CEILING - (1) ONE HOUR
- B — RATED CEILING - (2) TWO HOUR

NORTH ARROW — Called North

STAMP

Date: 15 MAY 2020

Drawn By: TLD

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Reflected Ceiling Plan Second Floor

5.1.03

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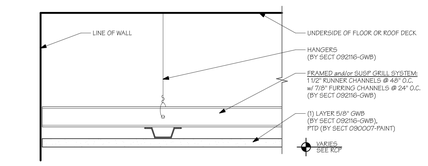
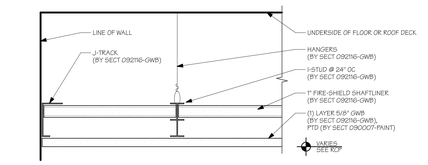
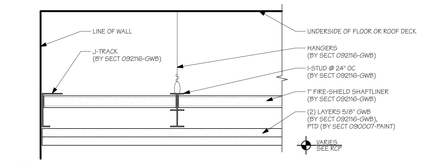


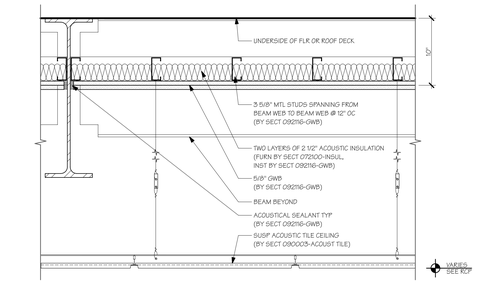
1 TYP **Non-Rated Suspended GWB Ceiling**
SCALE: 3" = 1'-0"



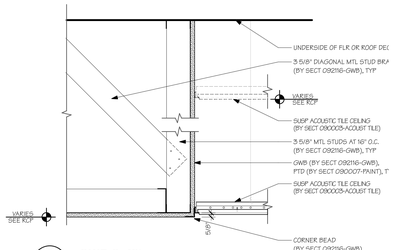
2 TYP **One-Hour Rated Suspended GWB Ceiling**
SCALE: 3" = 1'-0"



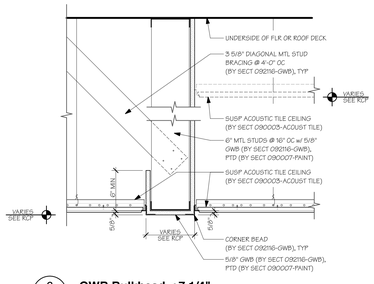
3 TYP **Two-Hour Rated Suspended GWB Ceiling**
SCALE: 3" = 1'-0"



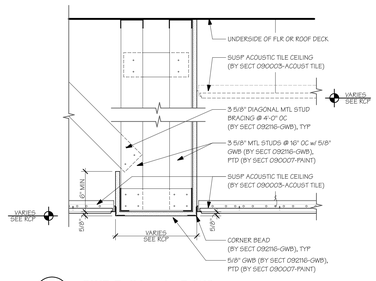
4 TYP **Acoustic Ceiling**
SCALE: 1 1/2" = 1'-0"



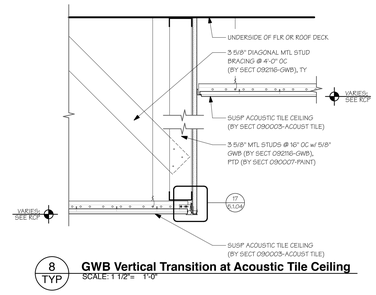
5 TYP **GWB Soffit**
SCALE: 1 1/2" = 1'-0"



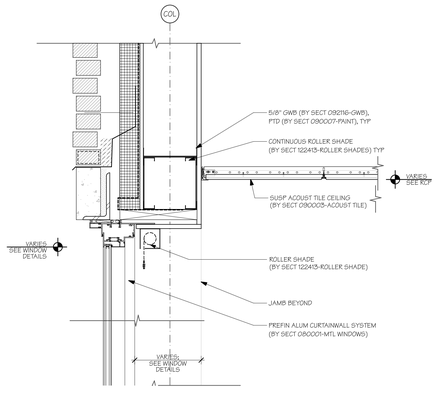
6 TYP **GWB Bulkhead ≤ 7 1/4"**
SCALE: 1 1/2" = 1'-0"



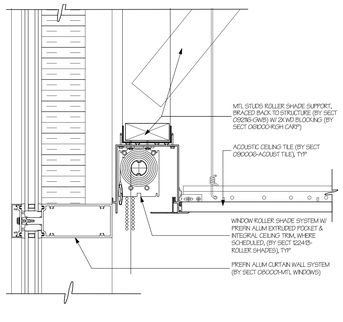
7 TYP **GWB Bulkhead ≥ 7 1/4"**
SCALE: 1 1/2" = 1'-0"



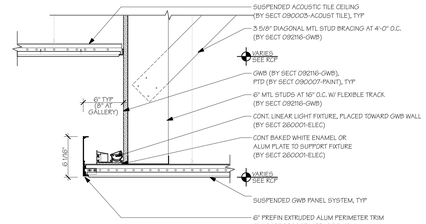
8 TYP **GWB Vertical Transition at Acoustic Tile Ceiling**
SCALE: 1 1/2" = 1'-0"



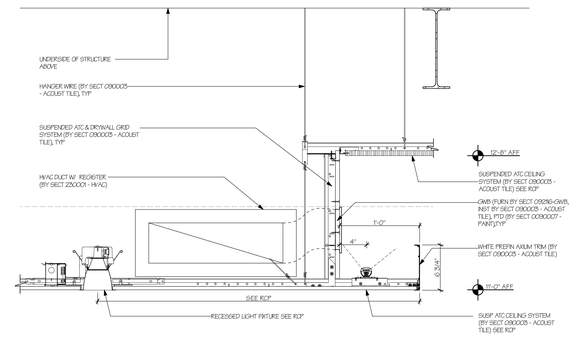
9 TYP **Roller Shade at Exterior Glazing**
SCALE: 1 1/2" = 1'-0"



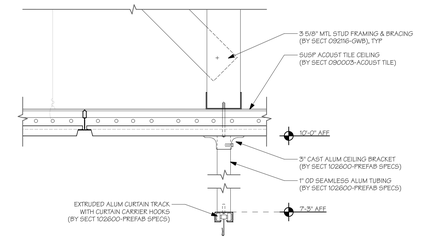
10 **Roller Shade Pocket at Curtainwall**
SCALE: 3" = 1'-0"



11 **Light Cove at Project Area Soffit**
SCALE: 1 1/2" = 1'-0"



12 **Library Cove Ceiling Detail**
SCALE: 1 1/2" = 1'-0"



13 **Suspended Curtain at Nurse**
SCALE: 3" = 1'-0"

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(978) 256-9900

KEY PLAN



NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By: CMF

Scale: AS NOTED

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Typical Ceiling Details

5.1.04

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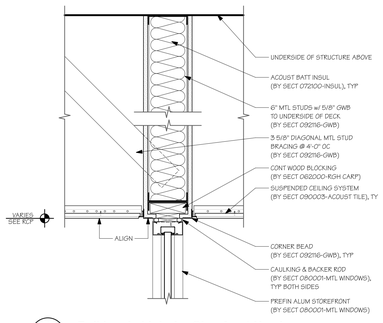
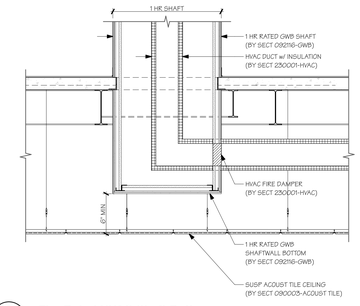
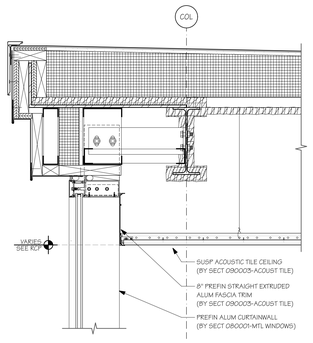


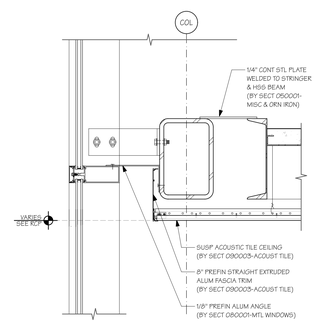
1 TYP **Bulkhead at Interior Storefront Head**
SCALE: 1 1/2"= 1'-0"



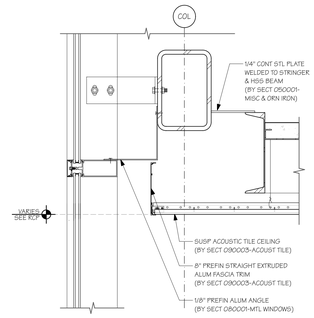
2 TYP **Fire Rated HVAC Shaft Bottom**
SCALE: 1/2" = 1'-0"



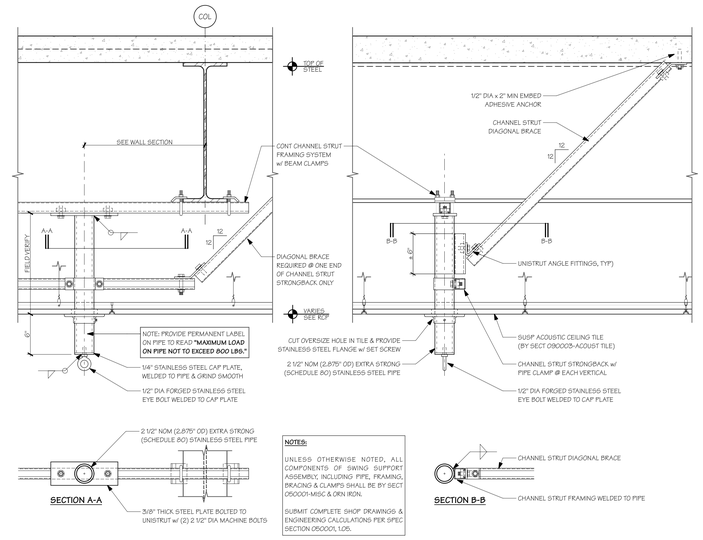
3 TYP **Ceiling Edge at Curtainwall Head**
SCALE: 1 1/2"= 1'-0"



4 TYP **Vestibule Ceiling at Curtainwall - Condition A**
SCALE: 1 1/2"= 1'-0"



5 TYP **Vestibule Ceiling at Curtainwall - Condition B**
SCALE: 1 1/2"= 1'-0"



6 TYP **Physical Therapy Swing Support**
SCALE: 1 1/2"= 1'-0"

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KEY PLAN



NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By: CMF

Scale: AS NOTED

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Typical Ceiling Details

5.1.05

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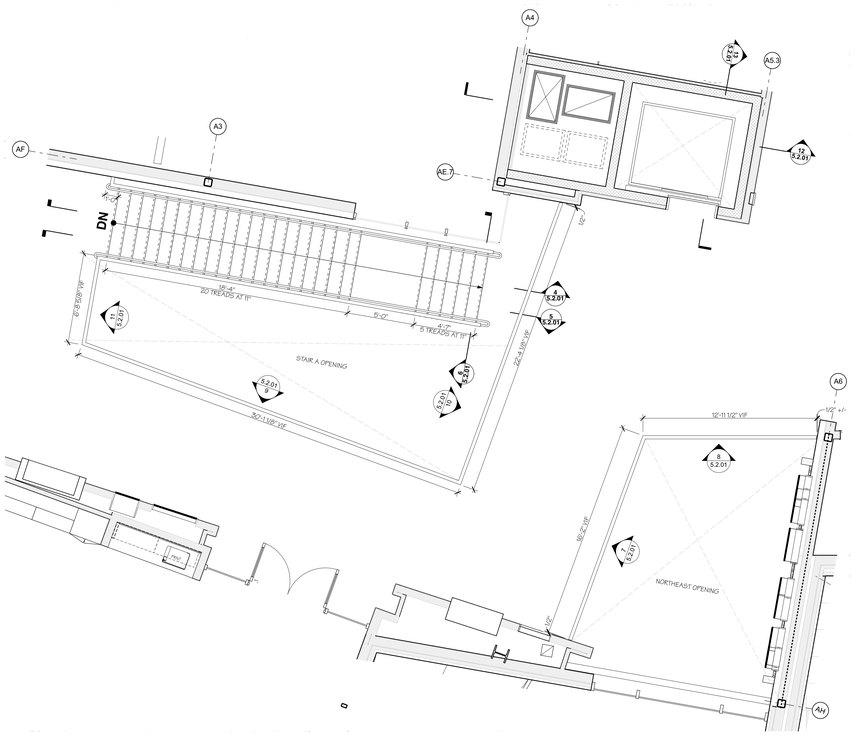
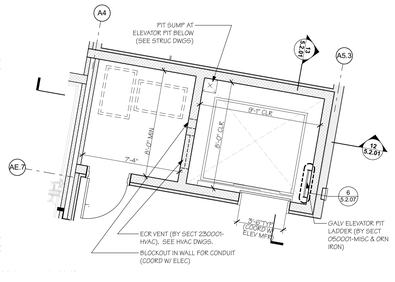
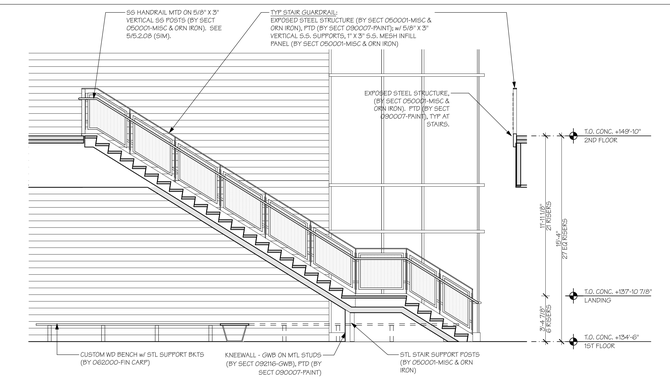


1 **Stairs Second Floor Plan**
SCALE: 1/4" = 1'-0"

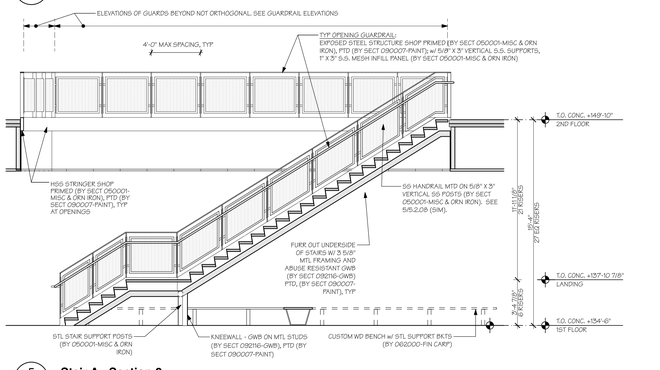
2 **Stairs First Floor Plan**
SCALE: 1/4" = 1'-0"



3 **Stairs & Ramps Ground Floor Plan**
SCALE: 1/4" = 1'-0"

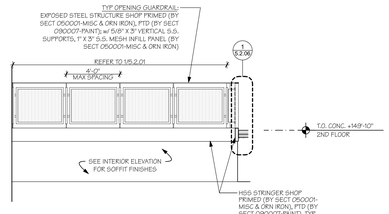


4 **Stair A - Section 1**
SCALE: 1/4" = 1'-0"

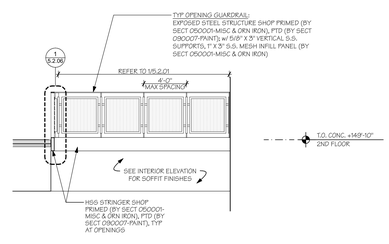


5 **Stair A - Section 2**
SCALE: 1/4" = 1'-0"

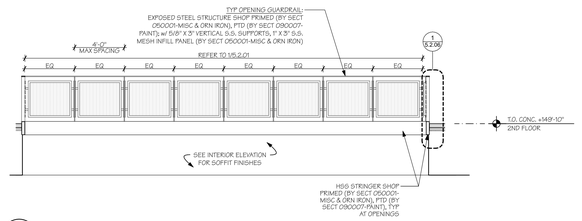
6 **Stair A - Section 3**
SCALE: 1/4" = 1'-0"



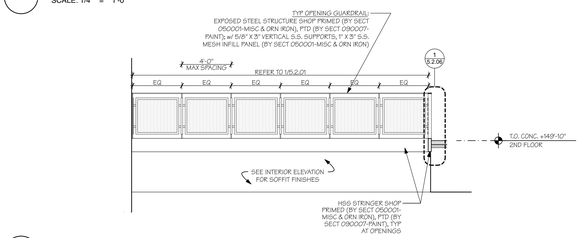
7 **Northeast Opening Guardrail Elevation 1**
SCALE: 1/4" = 1'-0"



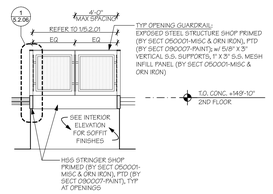
8 **Northeast Opening Guardrail Elevation 2**
SCALE: 1/4" = 1'-0"



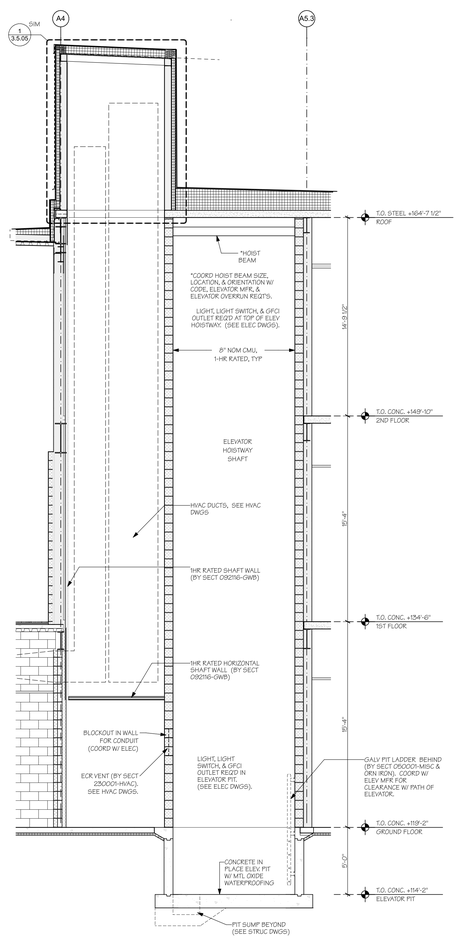
9 **Stair A Opening Guardrail Elevation 1**
SCALE: 1/4" = 1'-0"



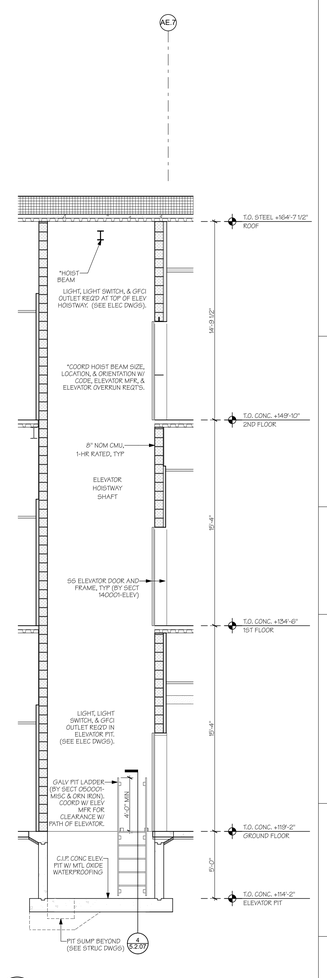
10 **Stair A Opening Guardrail Elevation 2**
SCALE: 1/4" = 1'-0"



11 **Stair A Opening Guardrail Elevation 3**
SCALE: 1/4" = 1'-0"



12 **Elevator - Section 1**
SCALE: 1/4" = 1'-0"



13 **Elevator - Section 2**
SCALE: 1/4" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 4 8

Revisions JAO, BS

Number	Date	Description

60% COST ESTIMATE SET

Stair A & Elevator Enlarged Plans & Sections

5.2.01

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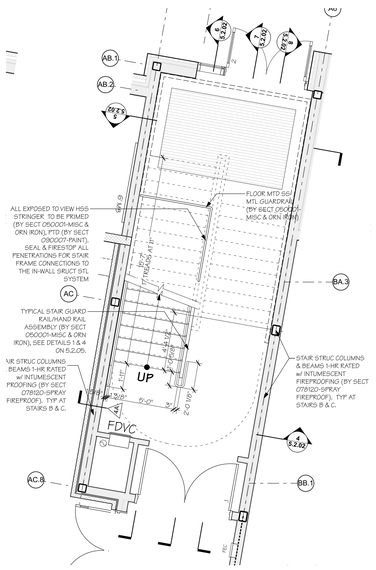
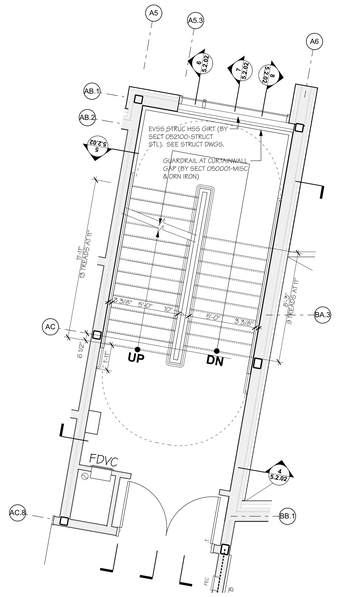
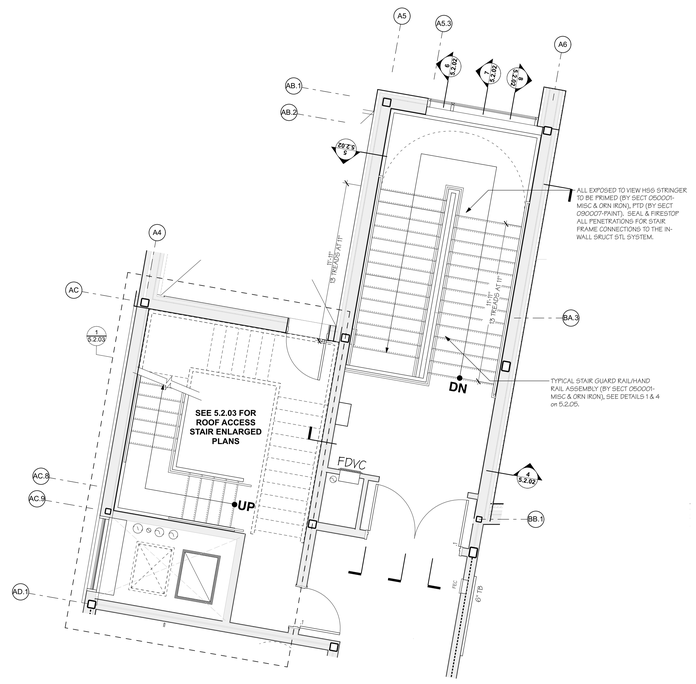


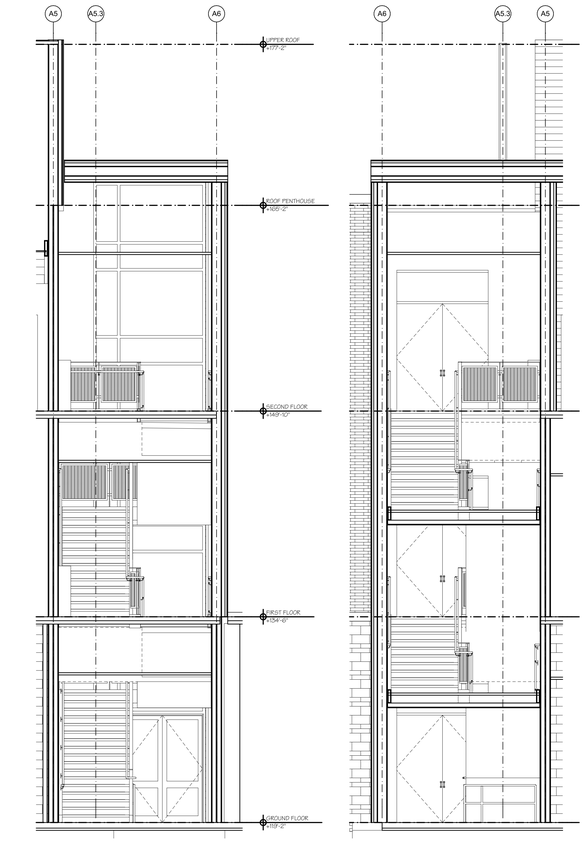
1 **Stair B - Ground Floor Plan**
SCALE: 1/4" = 1'-0"



2 **Stair B - First Floor Plan**
SCALE: 1/4" = 1'-0"

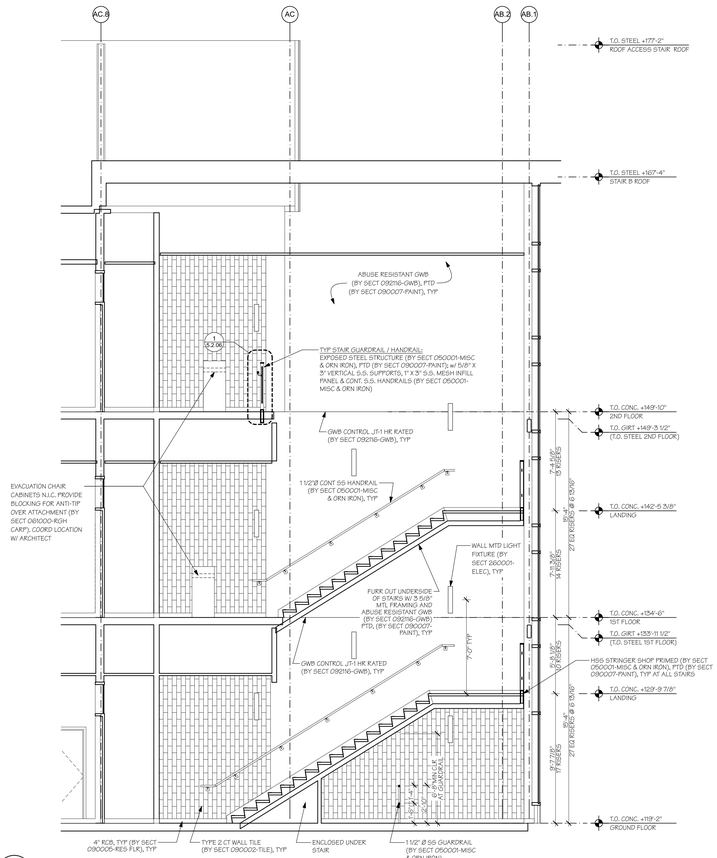


3 **Stair B - Second Floor Plan**
SCALE: 1/4" = 1'-0"

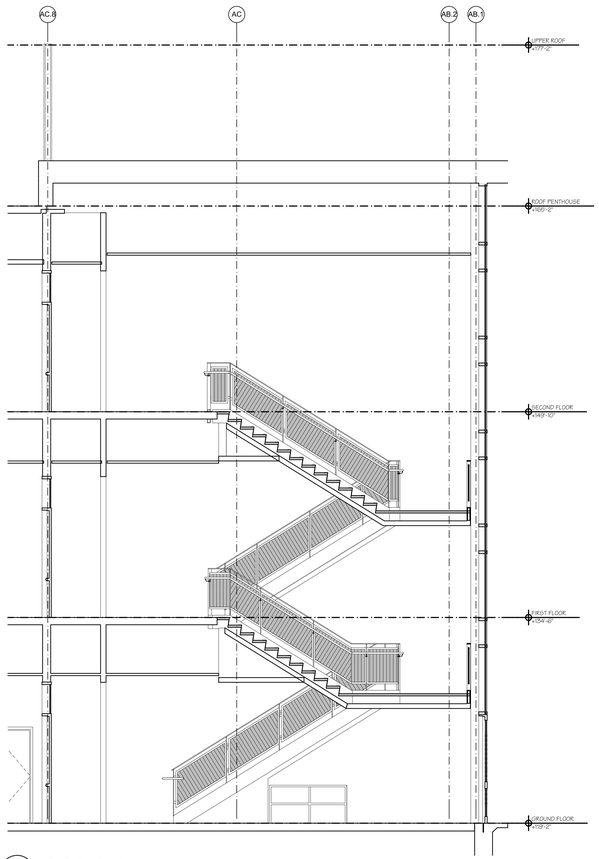


4 **Stair B - Section 1**
SCALE: 1/4" = 1'-0"

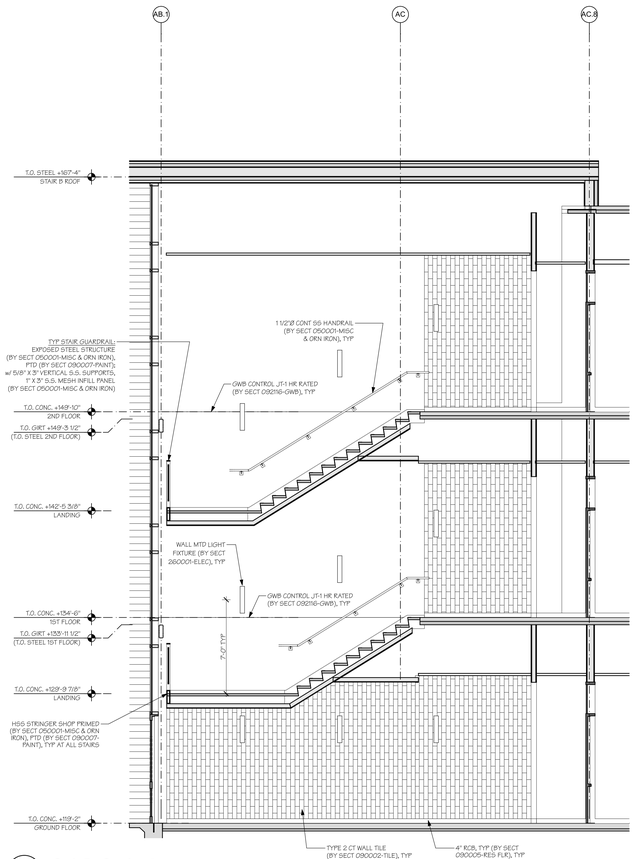
5 **Stair B - Section 2**
SCALE: 1/4" = 1'-0"



6 **Stair B - Section 3**
SCALE: 1/4" = 1'-0"



7 **Stair B - Section 4**
SCALE: 1/4" = 1'-0"



8 **Stair B - Section 5**
SCALE: 1/4" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 4 8

Revisions JAO, BS

Number	Date	Description

60% COST ESTIMATE SET

Stair B Stair Enlarged Plans & Sections

5.2.02

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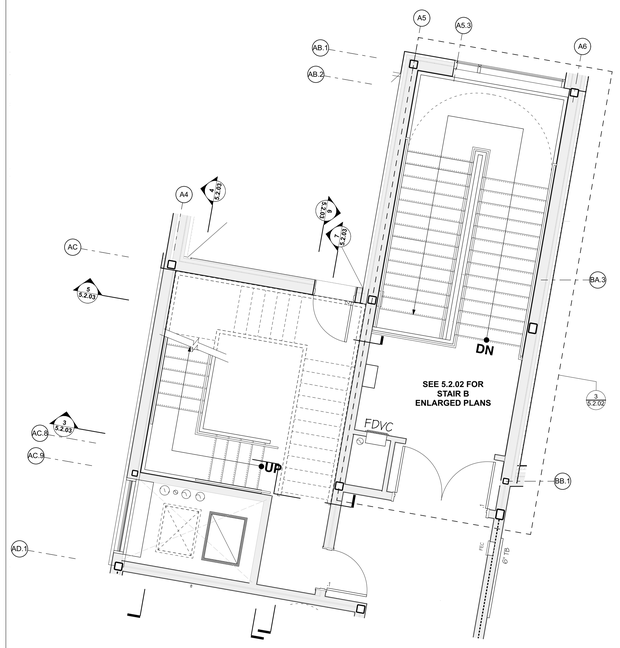
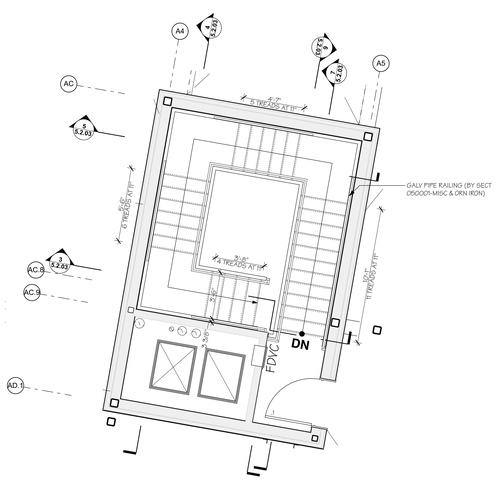
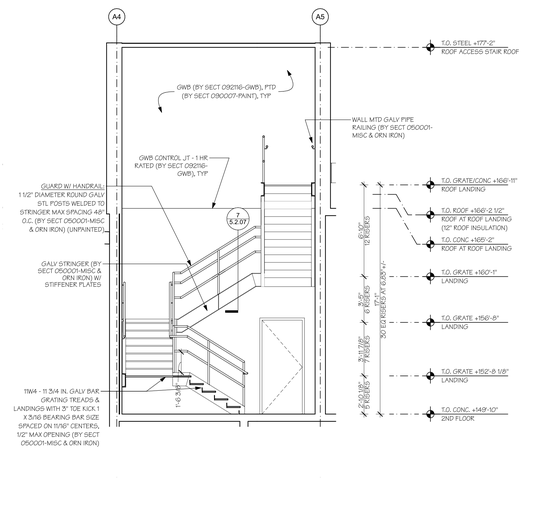


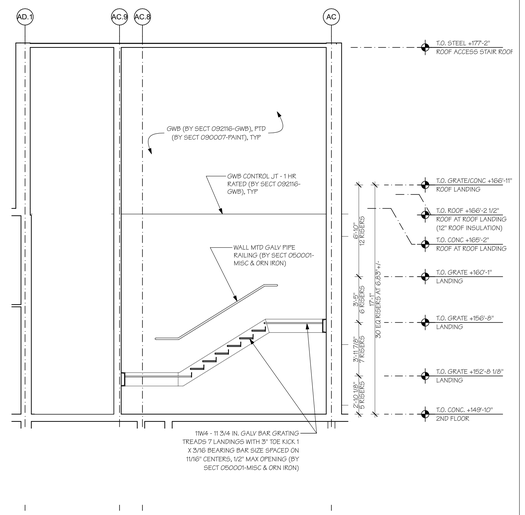
1 **Roof Access Stair - Second Floor Plan**
SCALE: 1/4" = 1'-0"



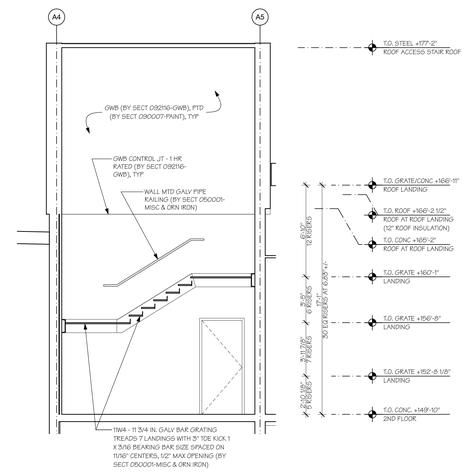
2 **Roof Access Stair - Roof**
SCALE: 1/4" = 1'-0"



3 **Roof Access Stair - Section 1**
SCALE: 1/4" = 1'-0"



4 **Roof Access Stair - Section 2**
SCALE: 1/4" = 1'-0"



5 **Roof Access Stair - Section 3**
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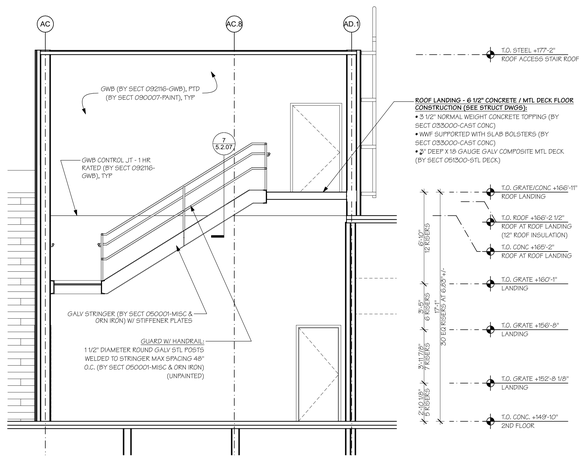

6 **Roof Access Stair - Section 4**
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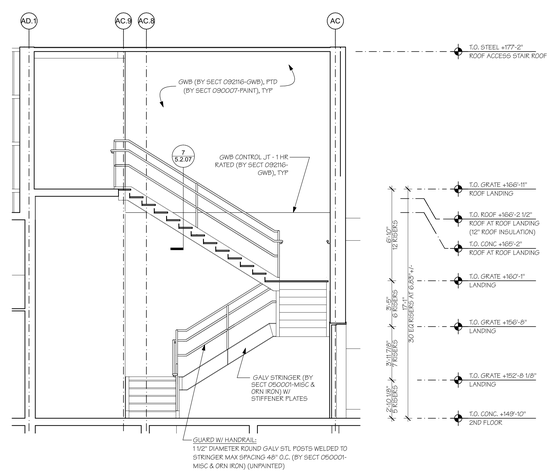

7 **Roof Access Stair - Section 5**
SCALE: 1/4" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 4 8

Revisions BS

Number	Date	Description

60% COST ESTIMATE SET

Roof Access Stair Enlarged Plans & Sections

5.2.03

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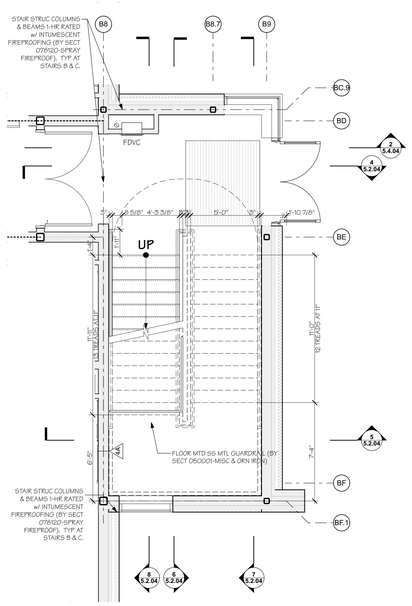
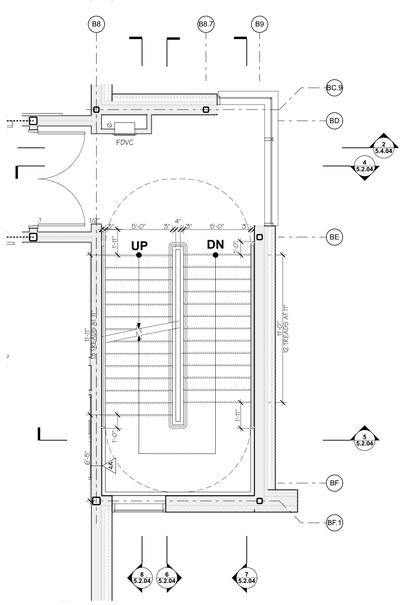
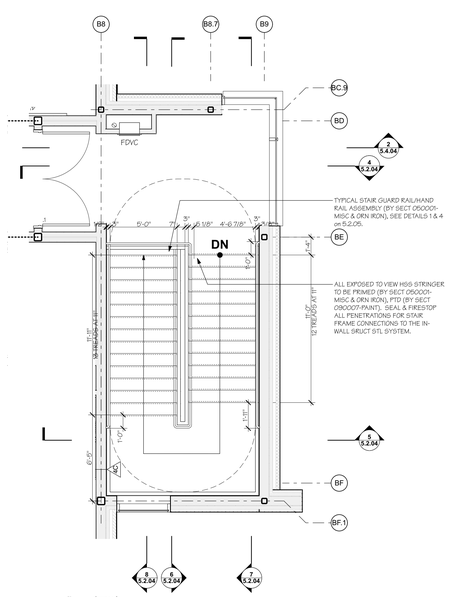


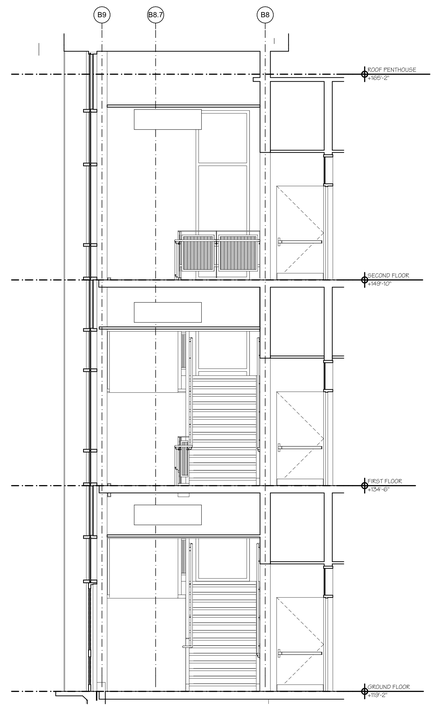
1 **Stair C - Ground Floor Plan**
SCALE: 1/4" = 1'-0"



2 **Stair C - First Floor Plan**
SCALE: 1/4" = 1'-0"



3 **Stair C - Second Floor Plan**
SCALE: 1/4" = 1'-0"



4 **Stair C - Section 1**
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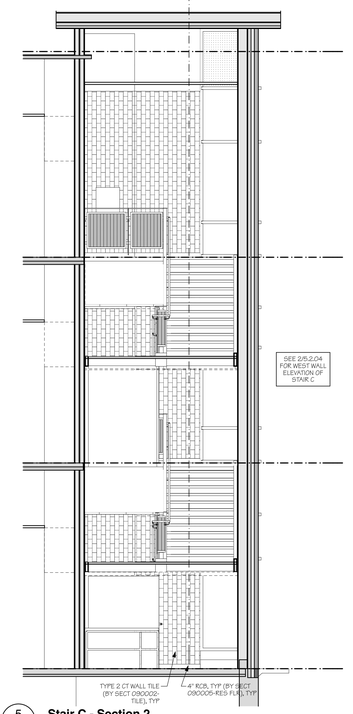
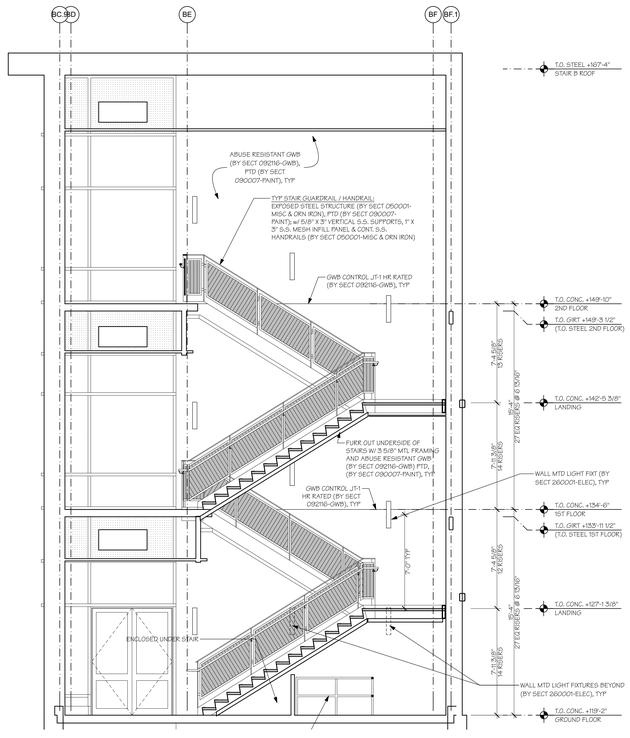
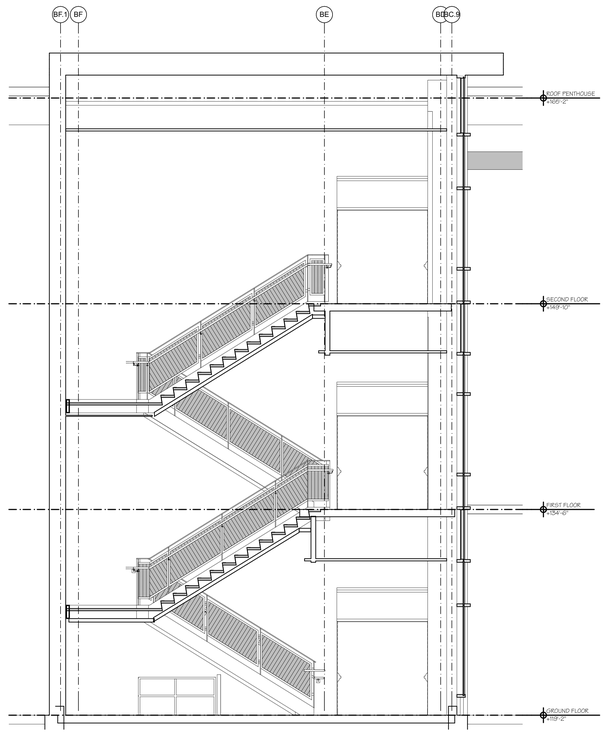


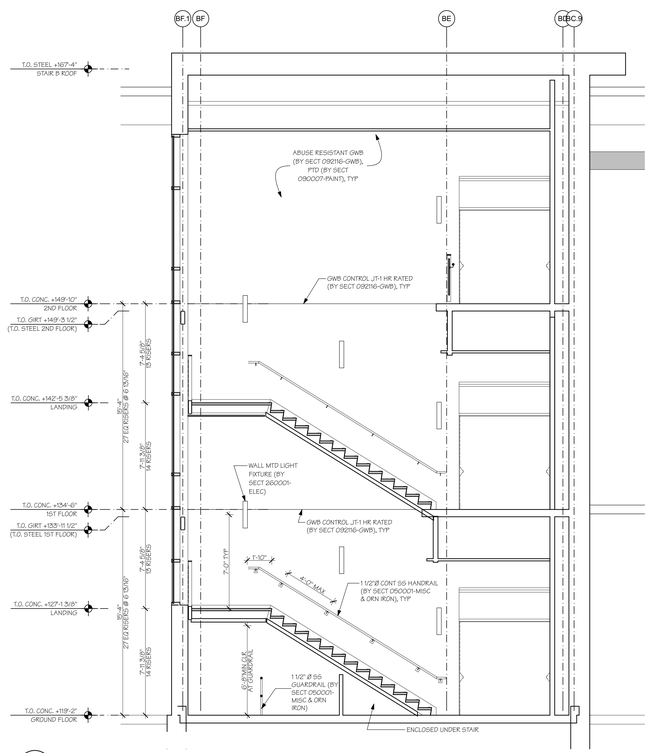
5 **Stair C - Section 2**
SCALE: 1/4" = 1'-0"



6 **Stair C - Section 3**
SCALE: 1/4" = 1'-0"



7 **Stair C - Section 4**
SCALE: 1/4" = 1'-0"



8 **Stair C - Section 5**
SCALE: 1/4" = 1'-0"

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KEY PLAN

NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 4 8

Revisions JAO, BS

Number	Date	Description

60% COST ESTIMATE SET

Stair C Enlarged Plans & Sections

5.2.04

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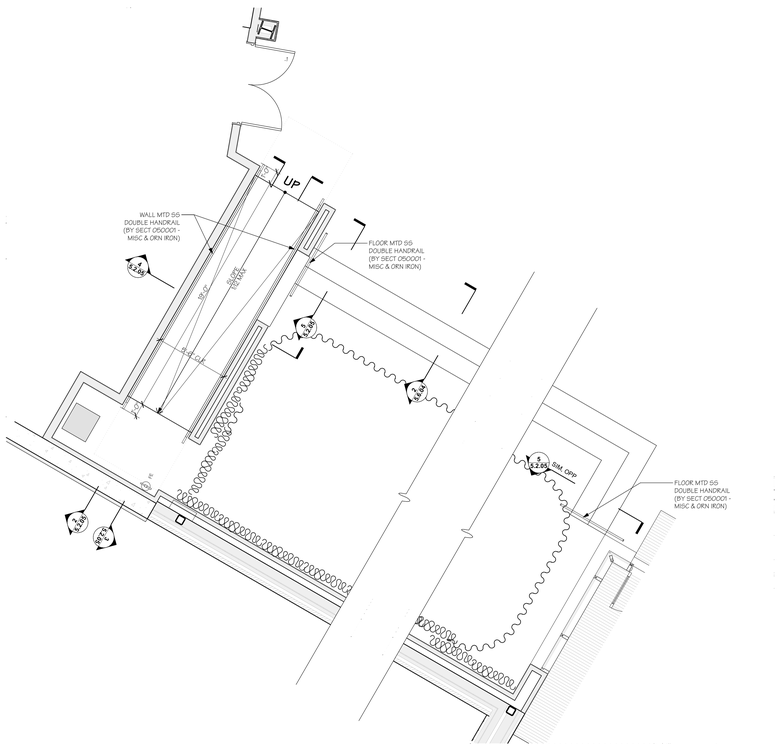
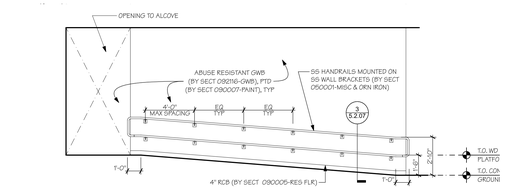
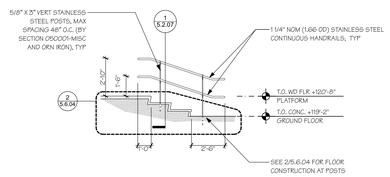


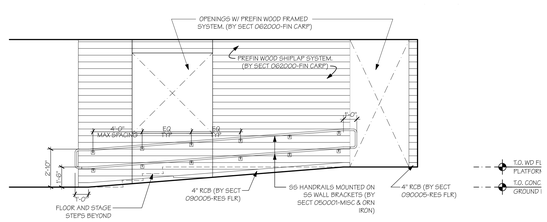
1 **Stairs & Ramps Ground Floor Plan**
SCALE: 1/4" = 1'-0"



2 **Ramp 003A - Section 1**
SCALE: 1/4" = 1'-0"



5 **Platform Handrail - Elevation**
SCALE: 1/4" = 1'-0"



3 **Ramp 003A - Section 2**
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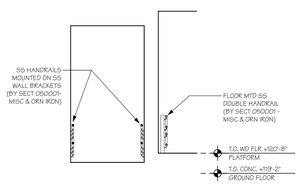

4 **Ramp 003A - Section 3**
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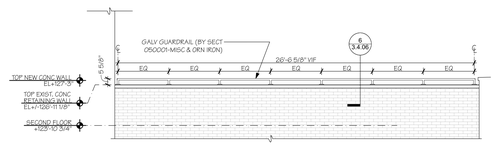

6 **Guardrail at Cashman**
SCALE: 1/4" = 1'-0"

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KEY PLAN

NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 4 8

Revisions JAO, BS

Number	Date	Description

60% COST ESTIMATE SET

Ramp, Stage Steps & Miscellaneous Enlarged Plans & Sections

5.2.05

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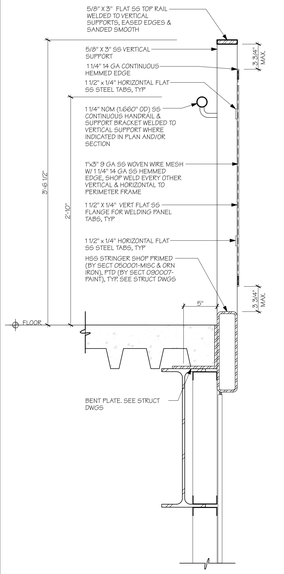
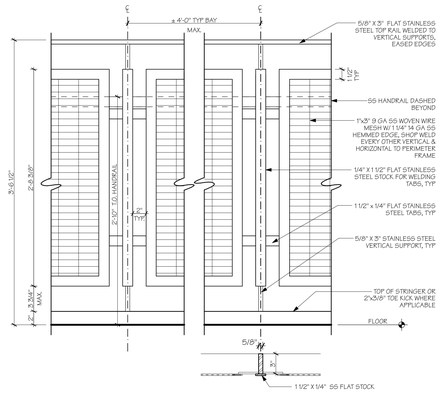
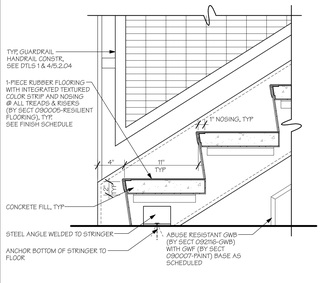




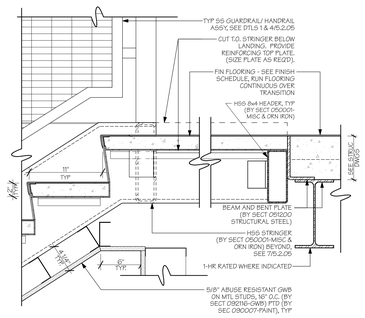
PLAN

1 TYP **Guardrail/Handrail Support**
SCALE: 1 1/2" = 1' - 0"

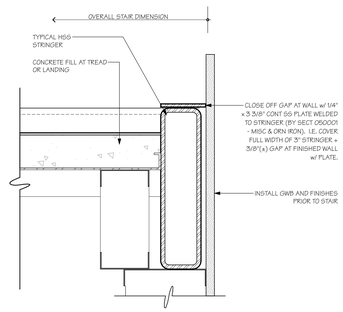
4 TYP **Guardrail/Handrail Support**
SCALE: 1 1/2" = 1' - 0"



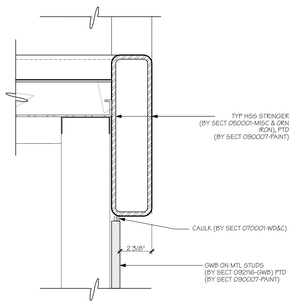
2 TYP **Stair Nosing at Floor Slab**
SCALE: 1 1/2" = 1' - 0"



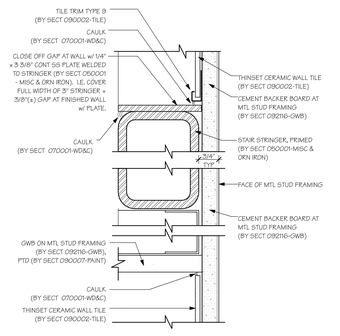
5 TYP **Stair at Slab and Beam**
SCALE: 1 1/2" = 1' - 0"



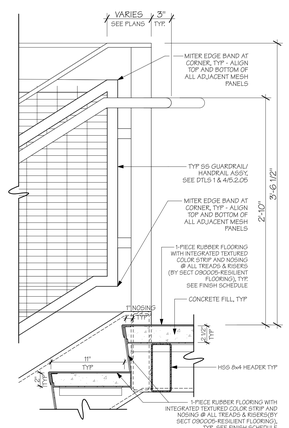
7 TYP **Stringer at GWB Partition**
3" = 1' - 0"



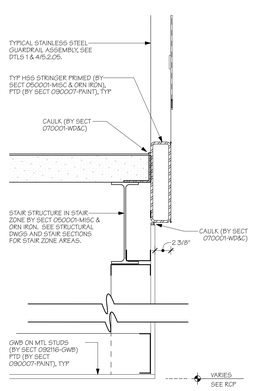
10 TYP **Stringer with GWB Partition Below**
3" = 1' - 0"



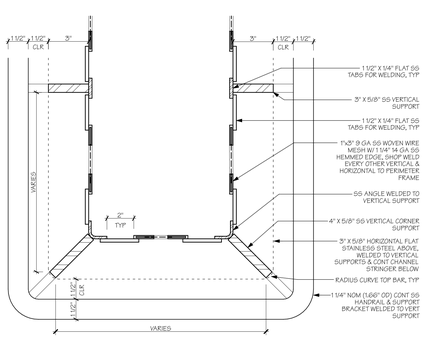
12 **Stringer Detail at Ceramic Wall**
SCALE: 6" = 1'-0"



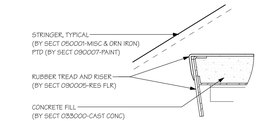
3 TYP **Detail at Landing**
1 1/2" = 1' - 0"



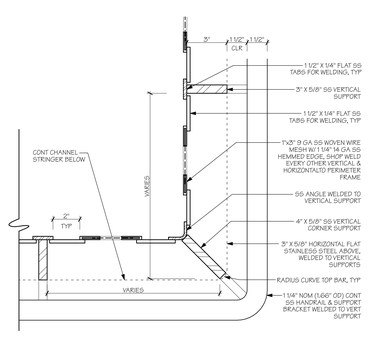
6 TYP **GWB Ceiling at Landing**
SCALE: 1 1/2" = 1' - 0"



9 TYP **Switchback Corner @ Guardrail**
3" = 1' - 0"



8 **TYP Stair Nosing Detail**
SCALE: 3" = 1'-0"



11 TYP **Corner @ Guardrail**
3" = 1' - 0"

NOTE:
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KEY PLAN

NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 4 8

Revisions JAO, BS

Number	Date	Description

60% COST ESTIMATE SET

Stair Details

5.2.06

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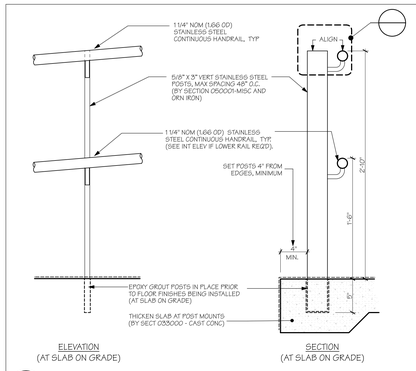
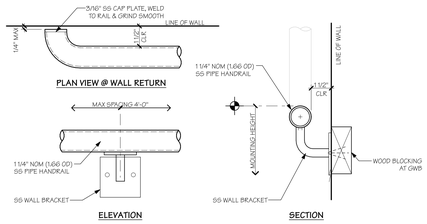
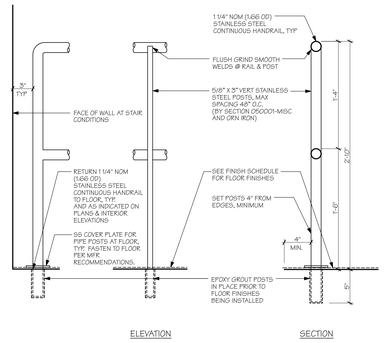


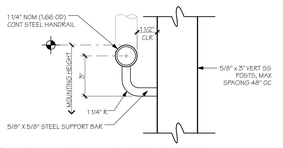
1 **Floor Mounted Handrail at Platform**
SCALE: 1 1/2"= 1'-0"



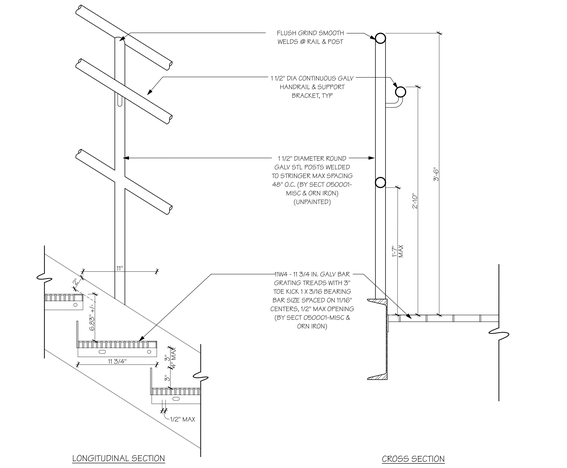
5 TYP **Handrail Details at Wall**
SCALE: 3" = 1' - 0"



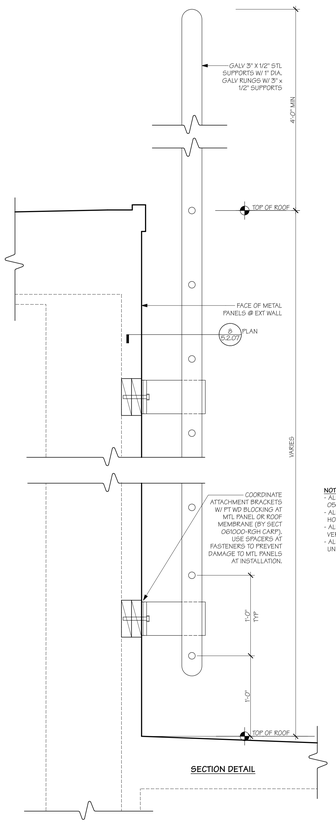
2 TYP **Floor Mounted Handrail at Stair**
1 1/2" = 1' - 0"

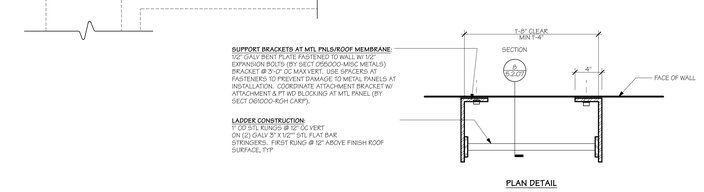


6 TYP **Handrail Support at Typical Rail**
SCALE: 3" = 1' - 0"

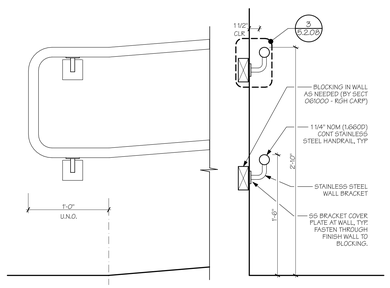


7 **Roof Access Stair Tread & Stringer Mounted Railing**
SCALE: 1 1/2"= 1'-0"

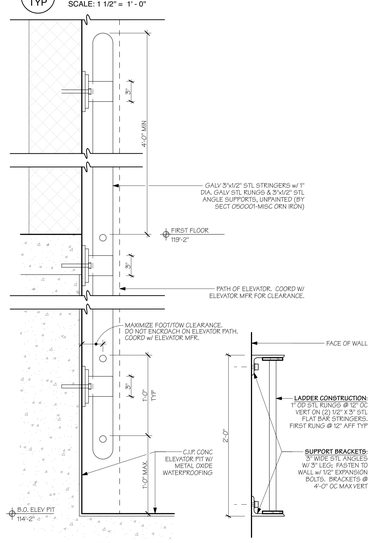




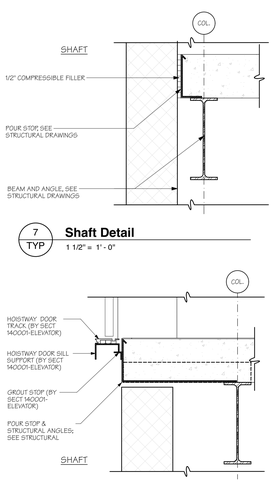
8 **Roof Ladder**
SCALE: 1 1/2"= 1'-0"



3 TYP **Wall Mounted Handrail at Ramp**
SCALE: 1 1/2" = 1' - 0"



4 TYP **Elevator Pit Ladder**
1 1/2" = 1' - 0"



7 TYP **Shaft Detail**
1 1/2" = 1' - 0"

8 TYP **Elevator Track & Transition**
1 1/2" = 1' - 0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 4 8

Revisions JAO, BS

Number	Date	Description

60% COST ESTIMATE SET

Stair Details

5.2.07

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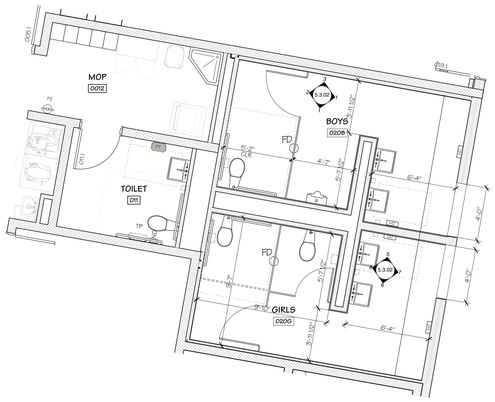
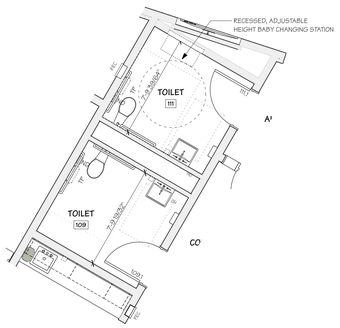
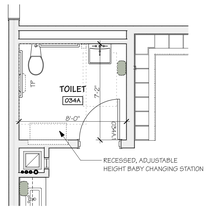


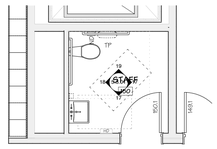
1 **Girls 020G / 120G / 220G & Boys 020B / 120B / 220B; Kitchen& Mop Room 011**
SCALE: 1/4" = 1'-0"



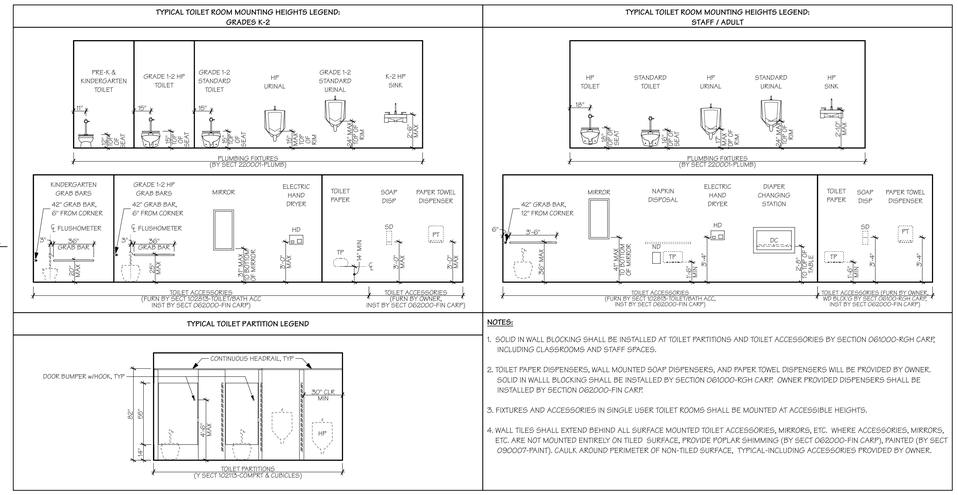
4 **Admin 109 & Lobby 111 Toilets**
SCALE: 1/4" = 1'-0"



8 **Classroom Toilet 033A / 034A**
SCALE: 1/4" = 1'-0"

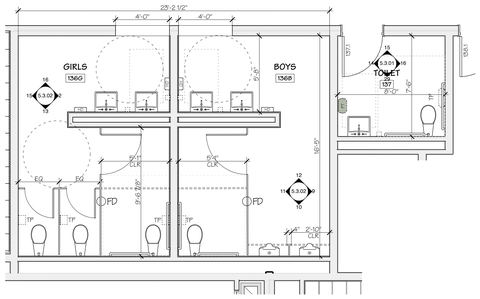


9 **Staff Toilet 150 / 250**
SCALE: 1/4" = 1'-0"

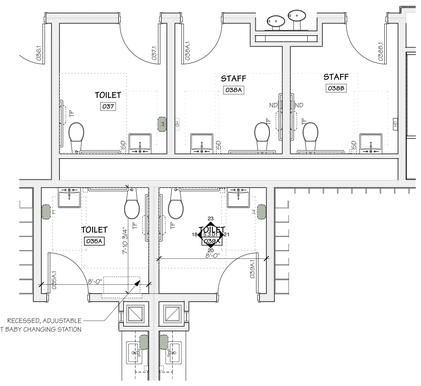


NOTES:

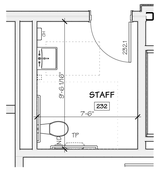
1. SOLID IN WALL BLOCKING SHALL BE INSTALLED AT TOILET PARTITIONS AND TOILET ACCESSORIES BY SECTION 061000-RGH CARP, INCLUDING CLASSROOMS AND STAFF SPACES.
2. TOILET PAPER DISPENSERS, WALL MOUNTED SOAP DISPENSERS, AND PAPER TOWEL DISPENSERS WILL BE PROVIDED BY OWNER. SOLID IN WALLL BLOCKING SHALL BE INSTALLED BY SECTION 061000-RGH CARP. OWNER PROVIDED DISPENSERS SHALL BE INSTALLED BY SECTION 062000-FIN CARP.
3. FIXTURES AND ACCESSORIES IN SINGLE USER TOILET ROOMS SHALL BE MOUNTED AT ACCESSIBLE HEIGHTS.
4. WALL TILES SHALL EXTEND BEHIND ALL SURFACE MOUNTED TOILET ACCESSORIES, MIRRORS, ETC. WHERE ACCESSORIES, MIRRORS, ETC. ARE NOT MOUNTED ENTIRELY ON TILED SURFACE, PROVIDE POPLAR SHIMMING (BY SECT 062000-FIN CARP), PAINTED (BY SECT 090007-PAINT). CAULK AROUND PERIMETER OF NON-TILED SURFACE, TYPICAL-INCLUDING ACCESSORIES PROVIDED BY OWNER.



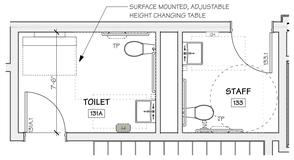
2 **Girls 136G & Boys 136B**
SCALE: 1/4" = 1'-0"



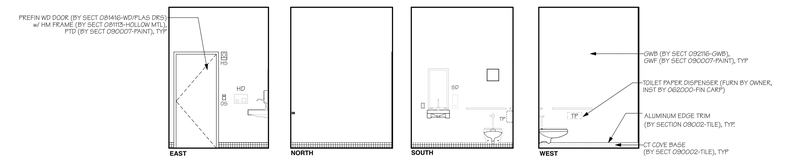
5 **Classroom Toilets 035A / 039A; Toilets / 038A / 038B**
SCALE: 1/4" = 1'-0"



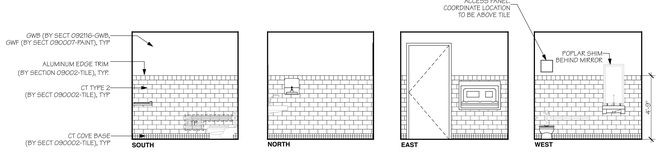
10 **Staff Toilet 232**
SCALE: 1/4" = 1'-0"



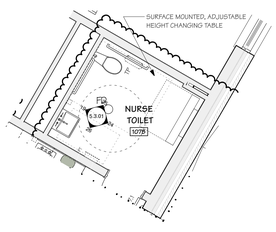
11 **ISN Toilet 131A / Staff Toilet 133**
SCALE: 1/4" = 1'-0"



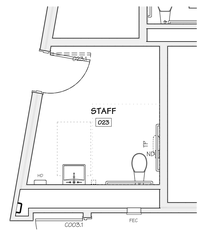
17 **Typical Staff Toilet**
SCALE: 1/4" = 1'-0"



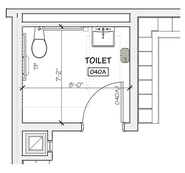
18 **Typical Classroom Toilet**
SCALE: 1/4" = 1'-0"



3 **Nurse Toilet 107B**
SCALE: 1/4" = 1'-0"

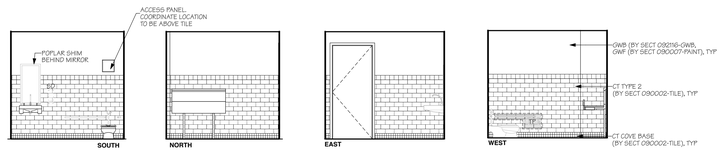


6 **Staff Toilet 023**
SCALE: 1/4" = 1'-0"

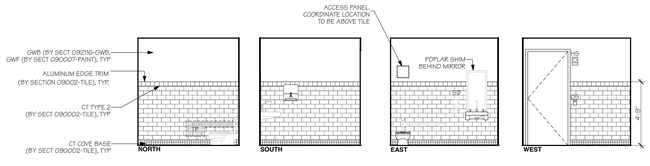


7 **Classroom Toilet 040A / 041A / 044A / 046A / 047A / 051A / 052A / 054A / 055A**
SCALE: 1/4" = 1'-0"

12 **NAS Toilet 253A**
SCALE: 1/4" = 1'-0"



19 **Nurse Toilet**
SCALE: 1/4" = 1'-0"



16 **Typical Single User Student Toilet**
SCALE: 1/4" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 8 16

Revisions TLD

Number	Date	Description

60% COST ESTIMATE SET

Enlarged Toilet Plans and Layout

5.3.01

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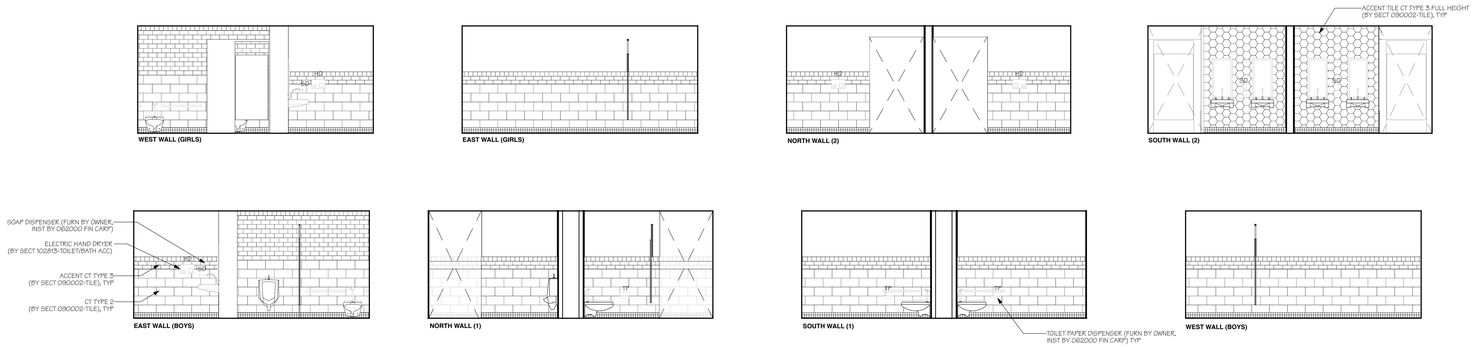
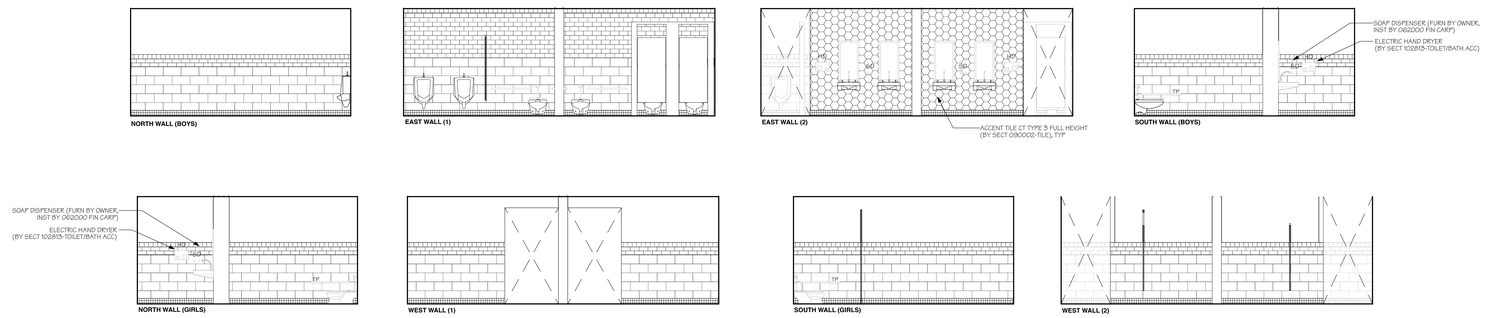


1 **Multi Fixture Toilet Rooms (Public Wing Typical)**
SCALE: 1/4" = 1'-0"



2 **Multi Fixture Toilet Rooms (Academic Wing Typical)**
SCALE: 1/4" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 8 16

Revisions TLD

Number	Date	Description

60% COST ESTIMATE SET

Enlarged Toilet Plans and Layout

5.3.02

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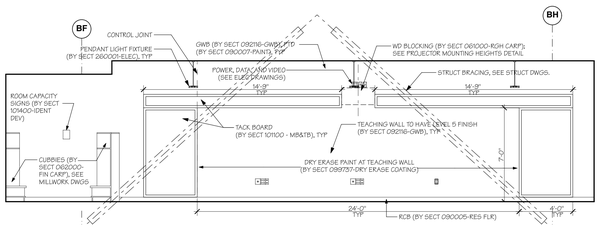
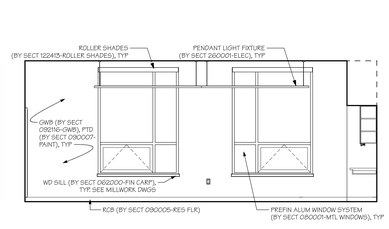


1 TYP **Pre Kindergarten - North**
SCALE: 1/4" = 1'-0"



2 TYP **Pre Kindergarten - East**
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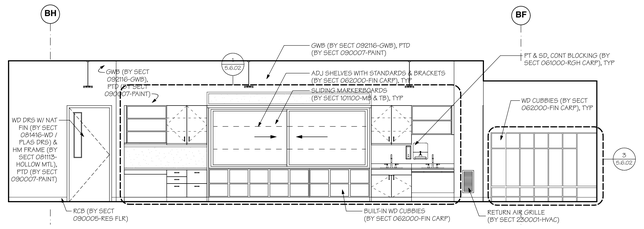
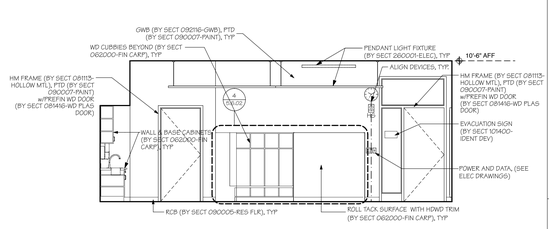
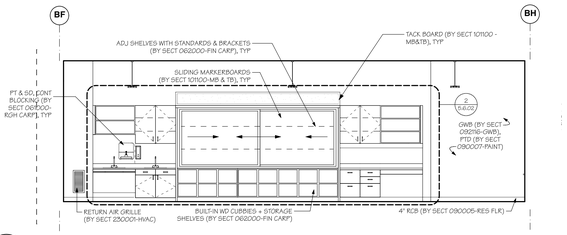


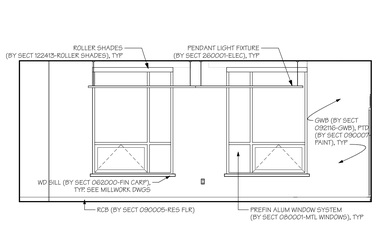
3 TYP **Pre Kindergarten - South**
SCALE: 1/4" = 1'-0"



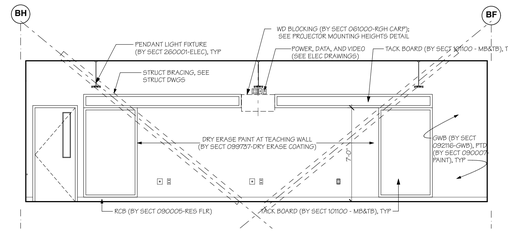
4 TYP **Pre Kindergarten - West**
SCALE: 1/4" = 1'-0"



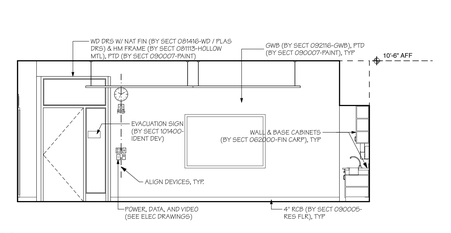
5 **Classroom - North**
SCALE: 1/4" = 1'-0"



6 **Classroom - East**
SCALE: 1/4" = 1'-0"



7 **Classroom - South**
SCALE: 1/4" = 1'-0"



8 **Classroom - West**
SCALE: 1/4" = 1'-0"

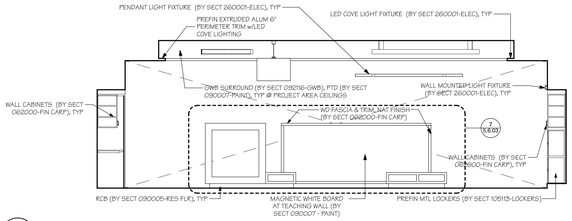


9 TYP **Classroom Project Area - North**
SCALE: 1/4" = 1'-0"

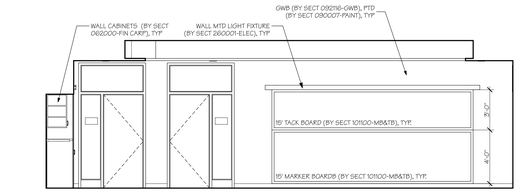


10 TYP **Classroom Project Area - East**
SCALE: 1/4" = 1'-0"

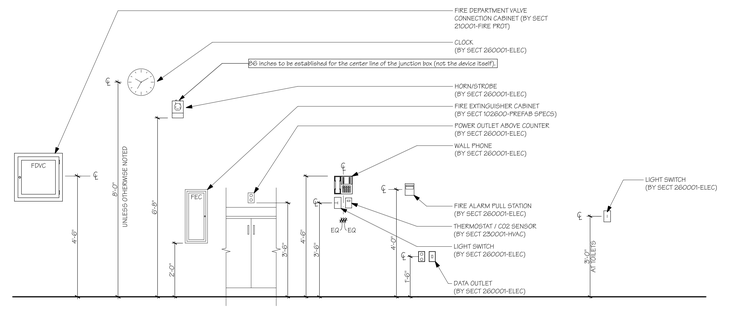
11 TYP **Classroom Project Area - South**
SCALE: 1/4" = 1'-0"



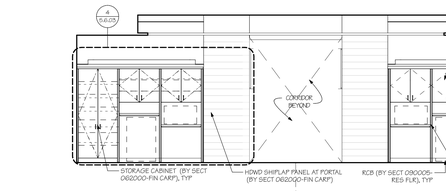
12 TYP **Classroom Project Area - West**
SCALE: 1/4" = 1'-0"



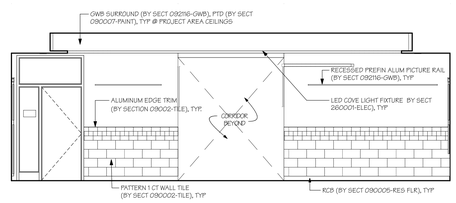
13 **Project Area at Kindergarten East**
SCALE: 1/4" = 1'-0"



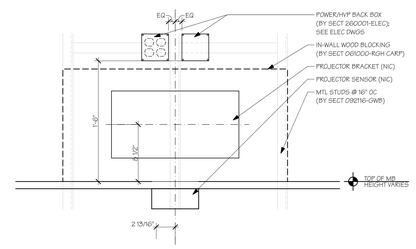
A **Device Mounting Heights**
SCALE: 1/2" = 1'-0"



14 **Project Area at Kindergarten North**
SCALE: 1/4" = 1'-0"



15 **Project Area at Kindergarten South**
SCALE: 1/4" = 1'-0"



B **Projector Mounting Detail**
SCALE: 1 1/2" = 1'-0"

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KEY PLAN

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Date: 15 MAY 2020

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Revisions BS / TLD

Number	Date	Description

60% COST ESTIMATE SET

Interior Elevations - Classrooms Areas

5.4.01

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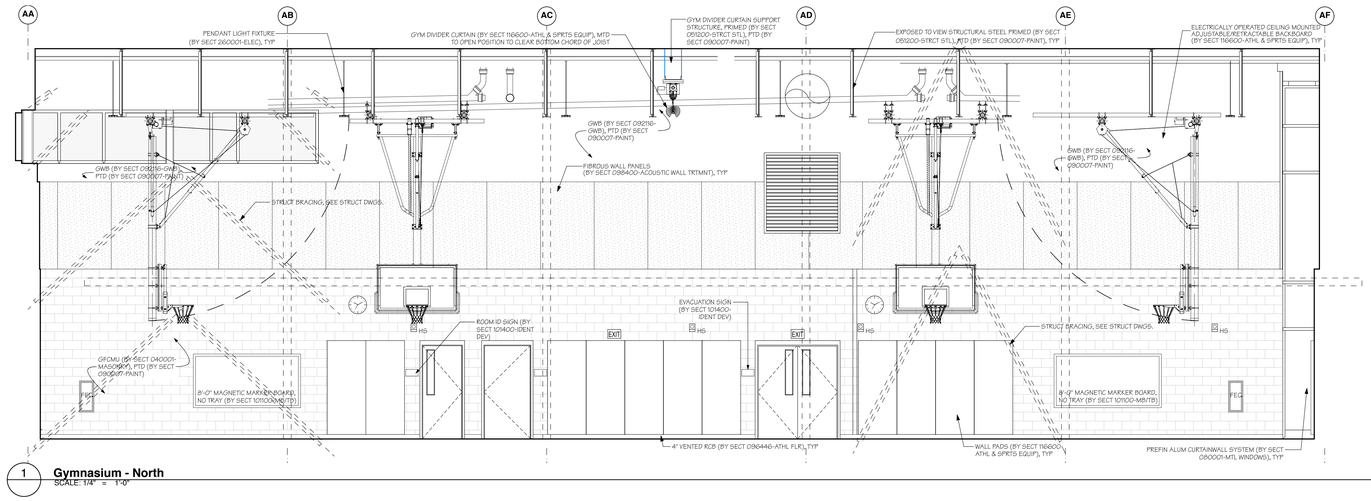
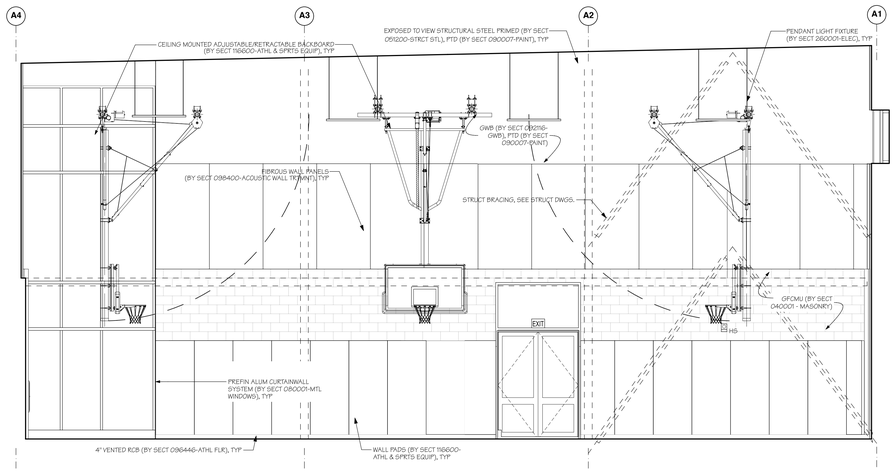
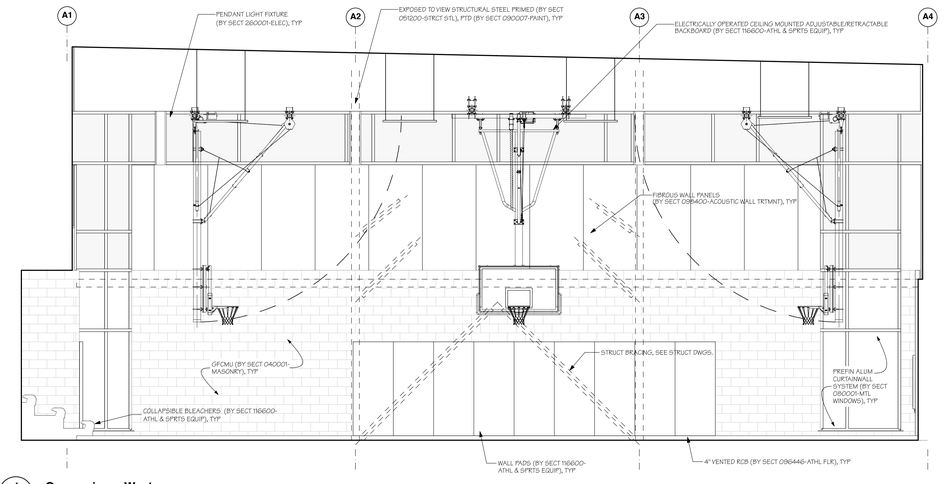


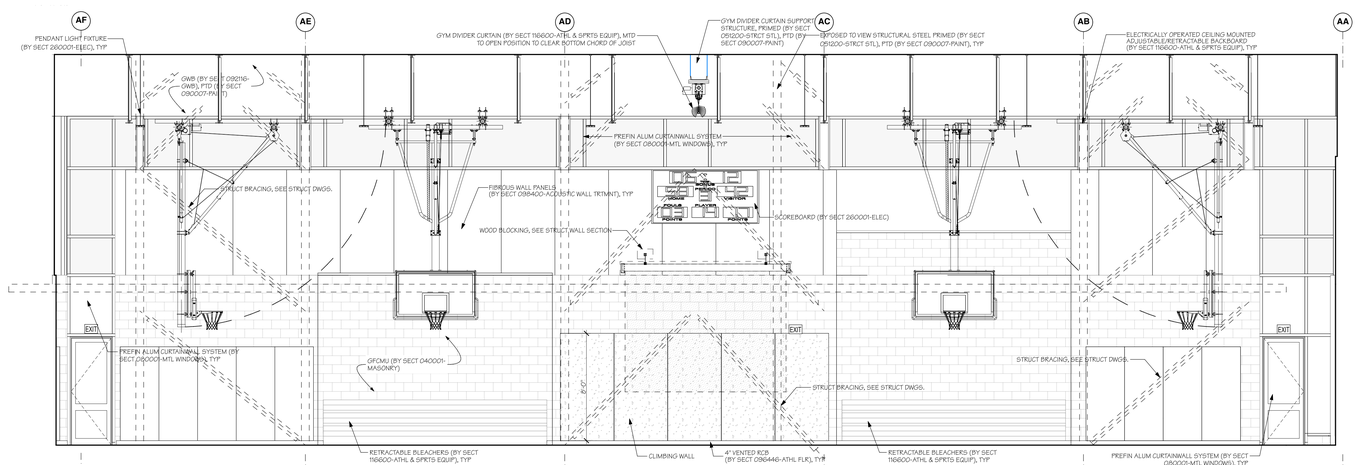
1 **Gymnasium - North**
SCALE: 1/4" = 1'-0"



2 **Gymnasium - East**
SCALE: 1/4" = 1'-0"



4 **Gymnasium - West**
SCALE: 1/4" = 1'-0"



3 **Gymnasium - South**
SCALE: 1/4" = 1'-0"

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KEY PLAN

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Revisions BS / TLD

Number	Date	Description

60% COST ESTIMATE SET

Interior Elevations - Gymnasium

5.4.02

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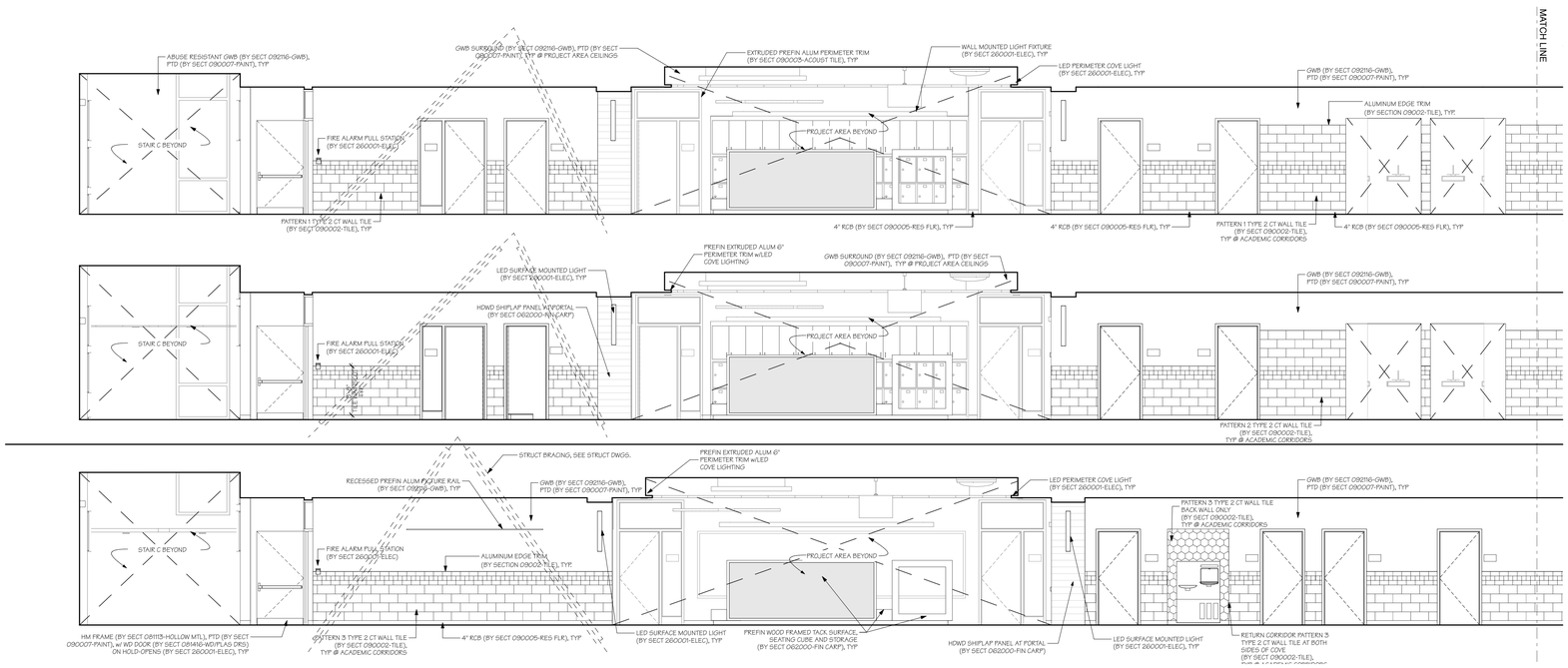
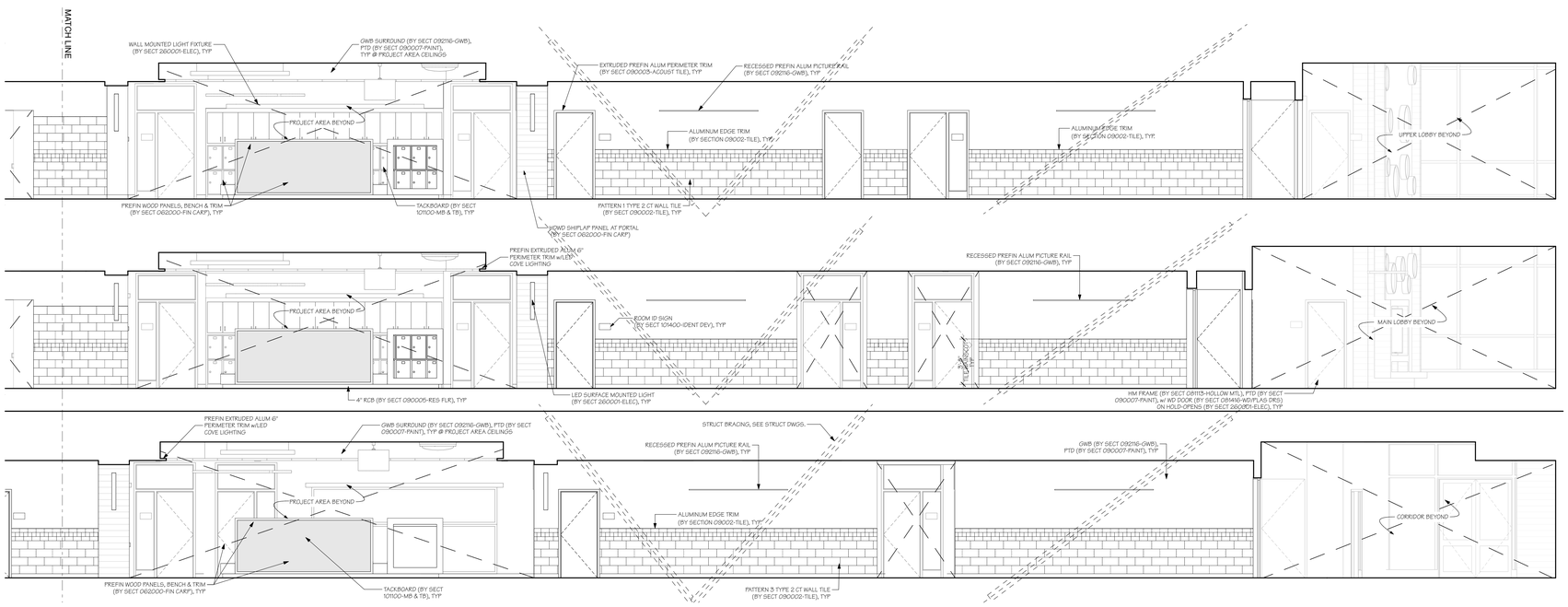


1 **C050-C105-C205 Corridor B - East**
SCALE: 1/4" = 1'-0"



2 **C050-C150-C250 Corridor B - East (Continued)**
SCALE: 1/4" = 1'-0"

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Revisions

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60% COST ESTIMATE SET

Interior Elevations - Corridors

5.4.03

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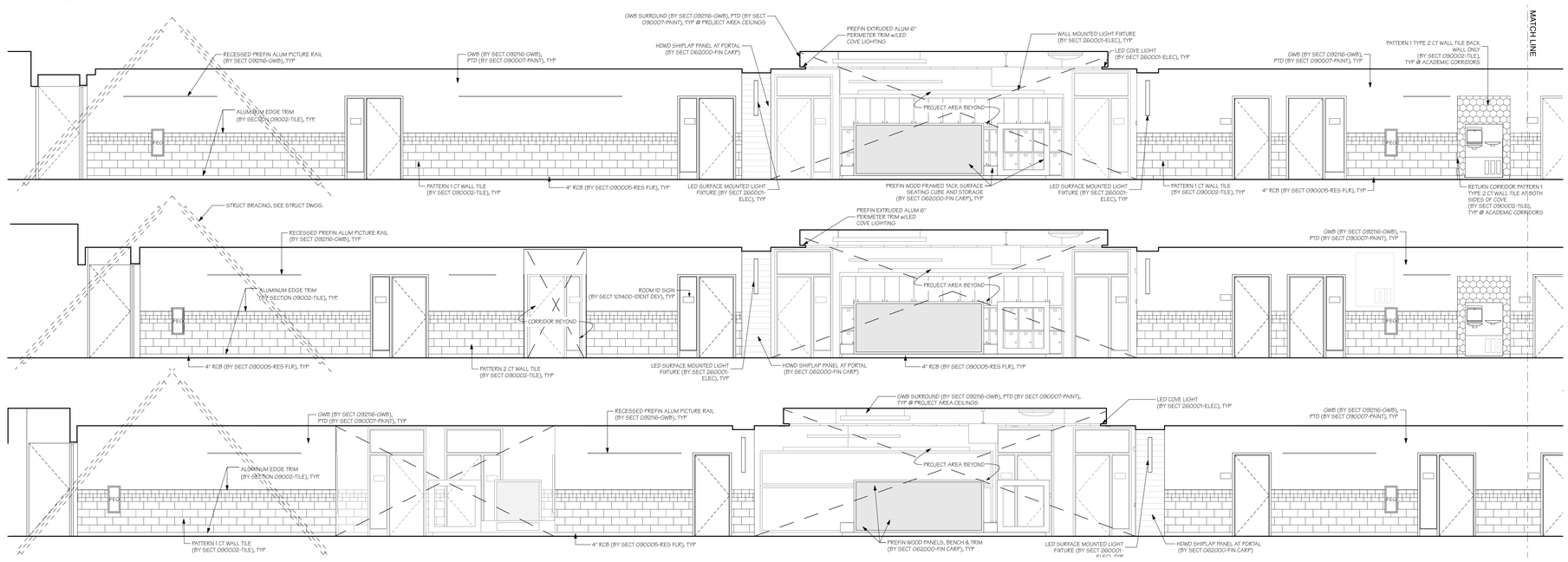

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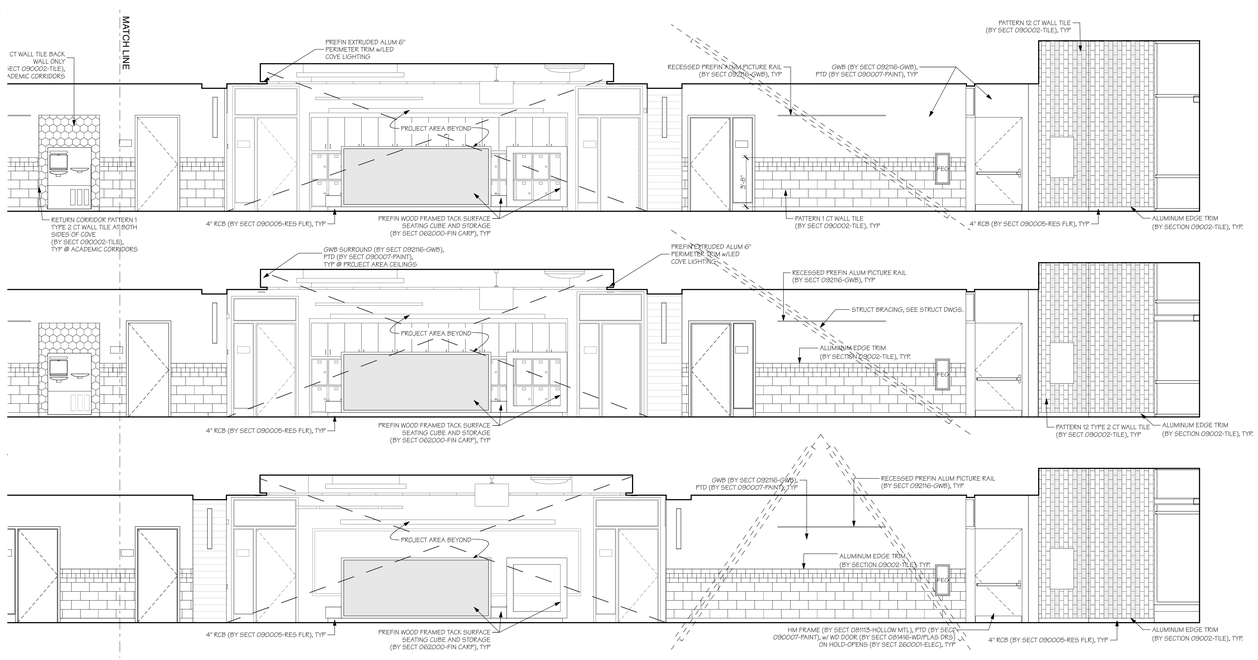

2 **C050-C105-C205 Corridor B - West (Continued)**
SCALE: 1/4" = 1'-0"

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Number	Date	Description

60% COST ESTIMATE SET

Interior Elevations - Corridors

5.4.04

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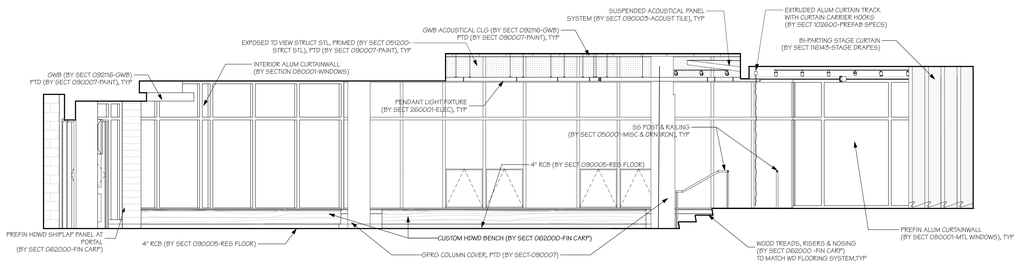
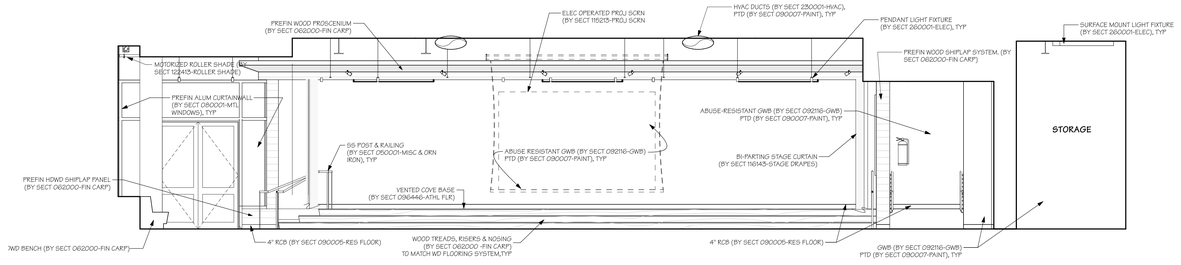


1 **Cafeteria - North**
SCALE: 1/4" = 1'-0"



2 **Cafeteria - East**
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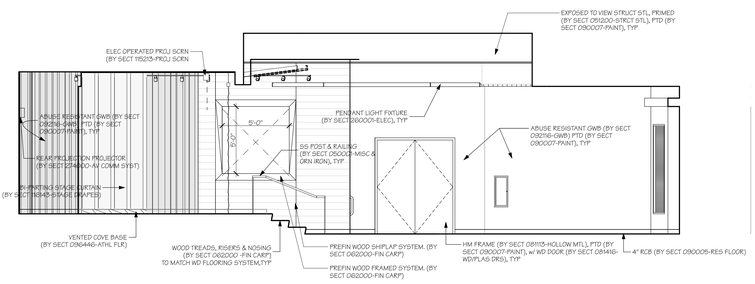
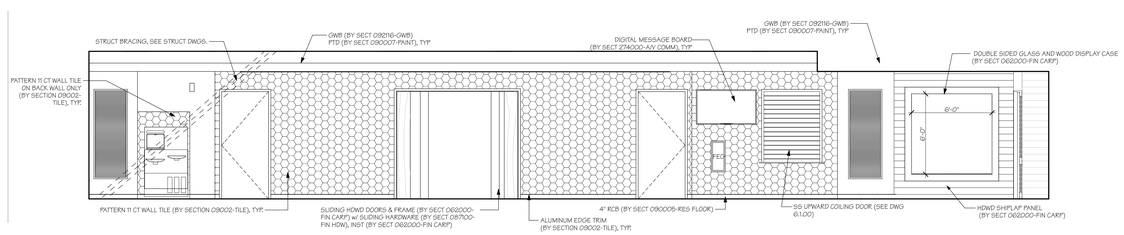


3 **Cafeteria - South**
SCALE: 1/4" = 1'-0"



4 **Cafeteria - West**
SCALE: 1/4" = 1'-0"

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KEY PLAN

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Revisions BS / TLD

Number	Date	Description

60% COST ESTIMATE SET

Interior Elevations - Cafeteria

5.4.05

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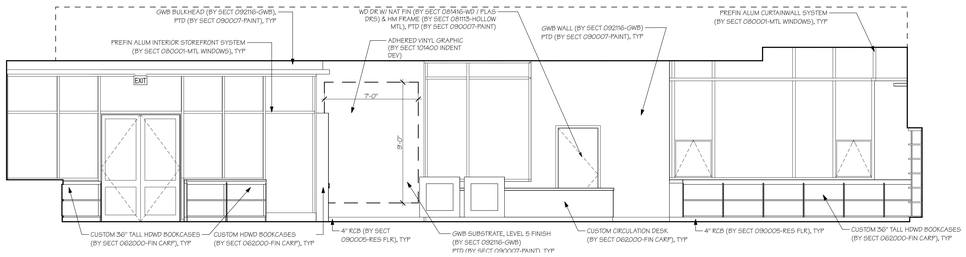
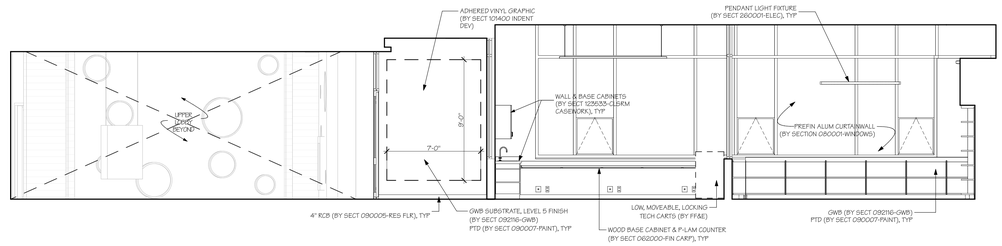


1 **Library - North**
SCALE: 1/4" = 1'-0"



2 **Library -North**
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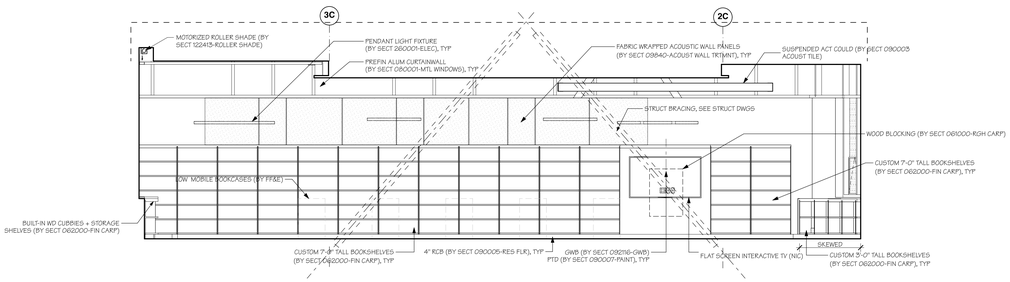
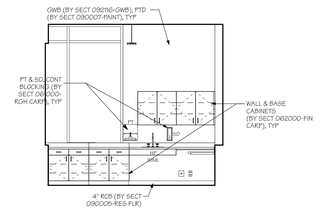
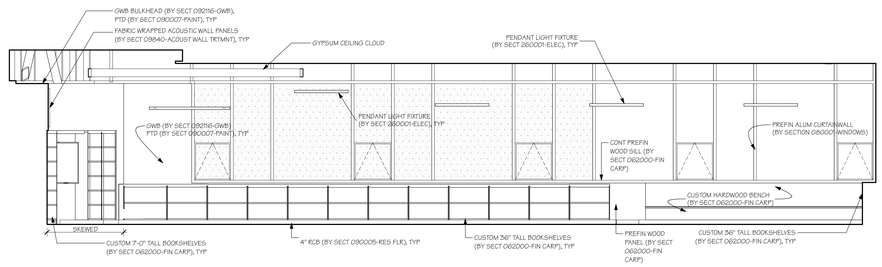


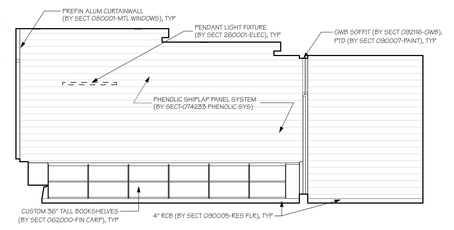
3 **Library- East**
SCALE: 1/4" = 1'-0"



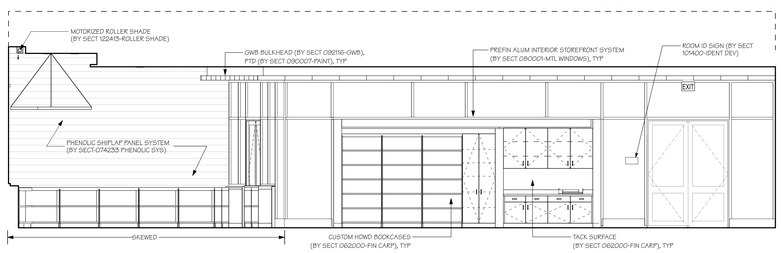
4 **Library Workroom - East**
SCALE: 1/4" = 1'-0"



5 **Library - South**
SCALE: 1/4" = 1'-0"



6 **Library - West**
SCALE: 1/4" = 1'-0"



7 **Library -West**
SCALE: 1/4" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 4 8

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Interior Elevations - Library

5.4.06

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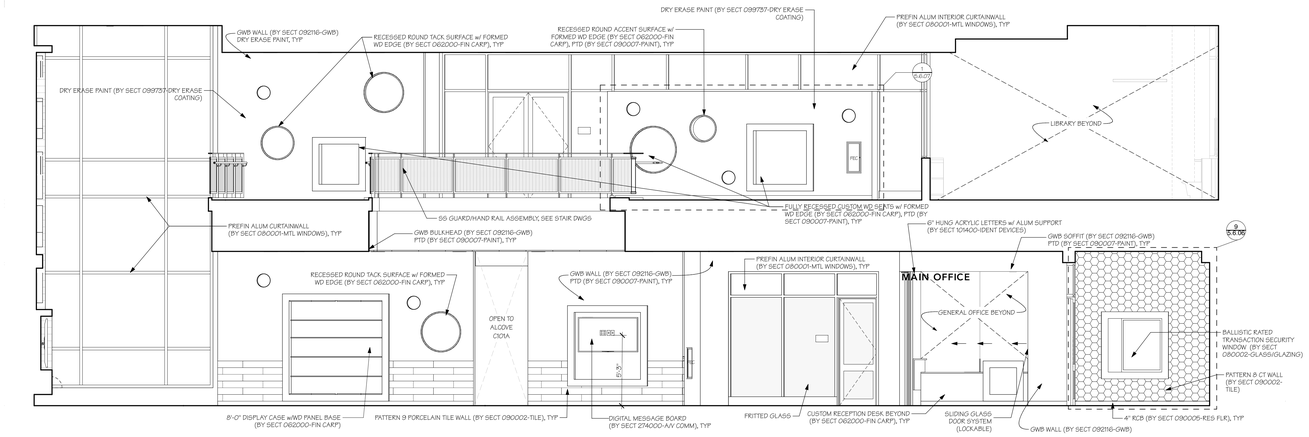
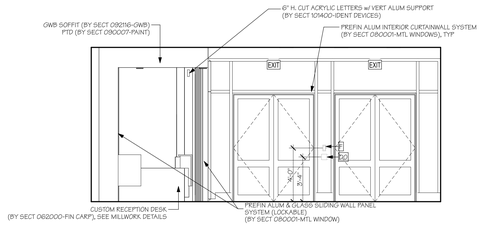
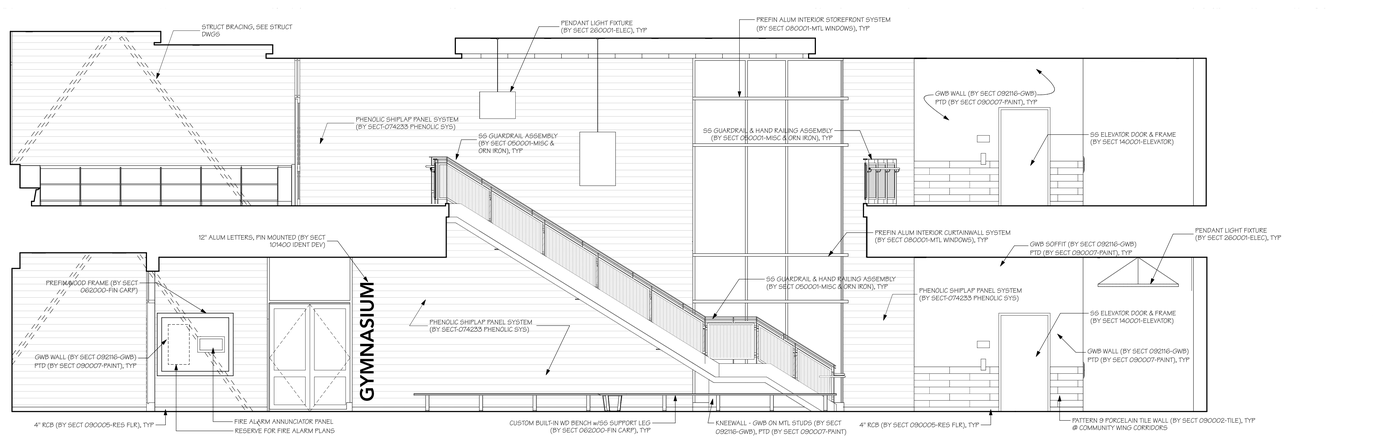


1 **100 Main Lobby - East**
SCALE: 1/4" = 1'-0"



2 **100 Main Lobby - South**
SCALE: 1/4" = 1'-0"



3 **100 Main Lobby - West**
SCALE: 1/4" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 4 8

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Interior Elevations - Main Lobby

5.4.07

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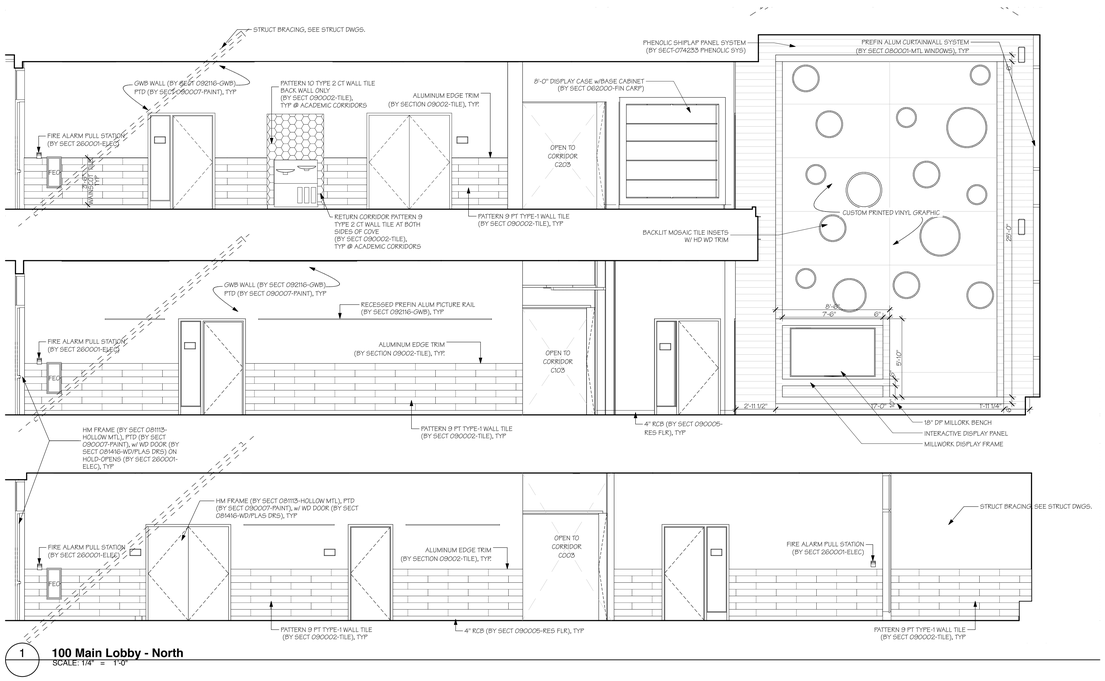
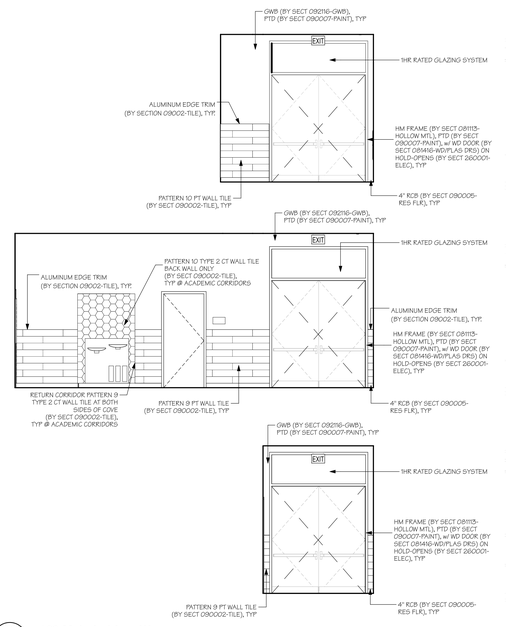
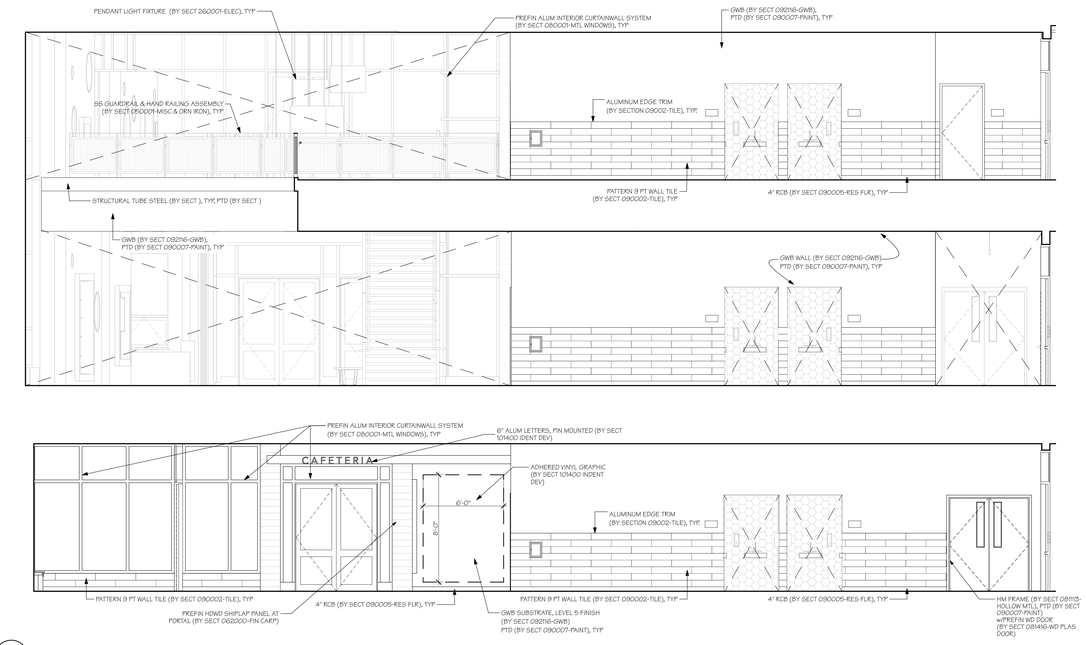


1 **100 Main Lobby - North**
SCALE: 1/4" = 1'-0"



3 **100 Main Lobby - West**
SCALE: 1/4" = 1'-0"



2 **100 Main Lobby - South**
SCALE: 1/4" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 4 8

Revisions

Number	Date	Description
BS / TLD		

60% COST ESTIMATE SET

Interior Elevations - Main Lobby

5.4.08

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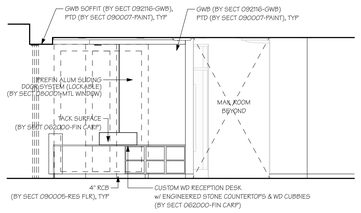
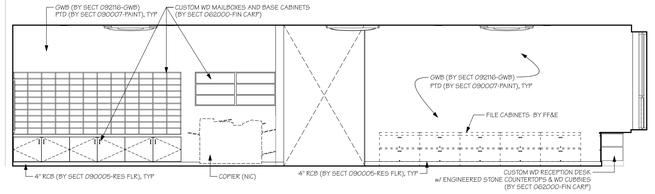


1 **103 GENERAL OFFICE North**
SCALE: 1/4" = 1'-0"



2 **103 GENERAL OFFICE East**
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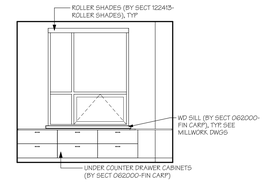
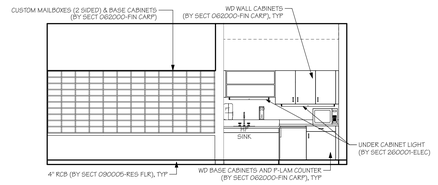
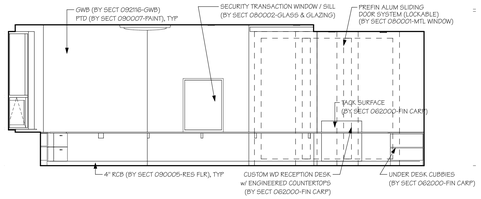


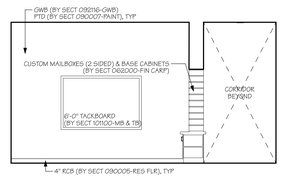
3 **103 GENERAL OFFICE South**
SCALE: 1/4" = 1'-0"



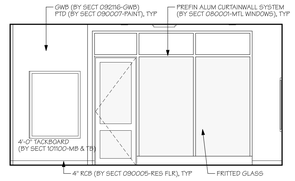
19 **108 CORRIDOR/KITCHENETTE Northwest**
SCALE: 1/4" = 1'-0"



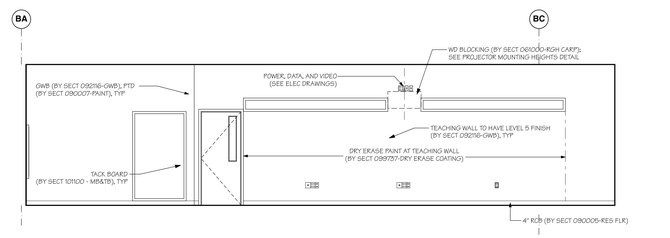
4 **103 GENERAL OFFICE West**
SCALE: 1/4" = 1'-0"



5 **102 MAIL-DUPLICATE-RECORDS North**
SCALE: 1/4" = 1'-0"



6 **102 MAIL-DUPLICATE-RECORDS West**
SCALE: 1/4" = 1'-0"



20 **046 KINDERGARTEN North**
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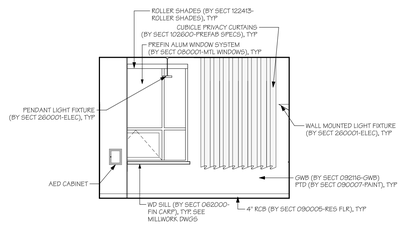

7 **107 NURSE North**
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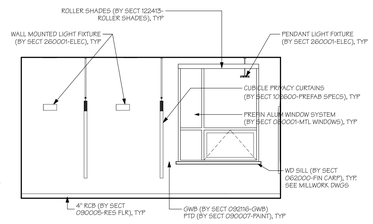

8 **107 NURSE East**
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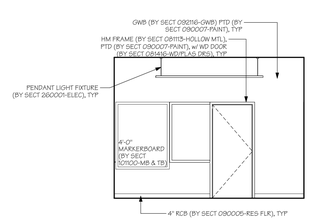

9 **107 NURSE South**
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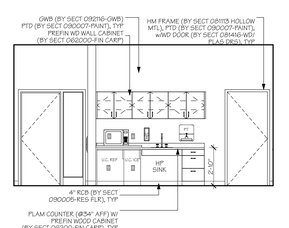

10 **107 NURSE West**
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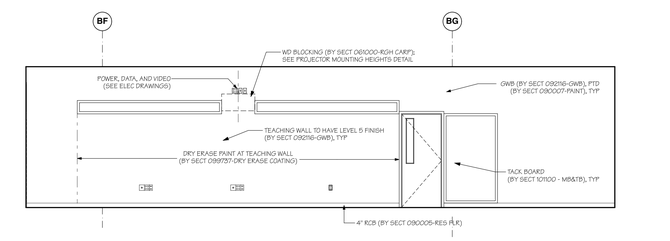

21 **040 KINDERGARTEN North**
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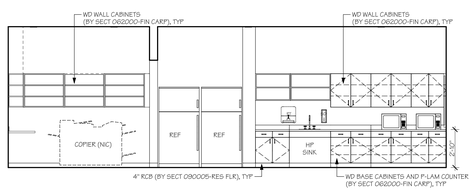
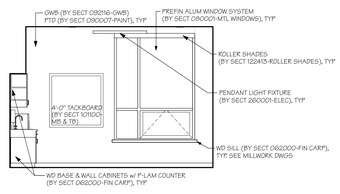
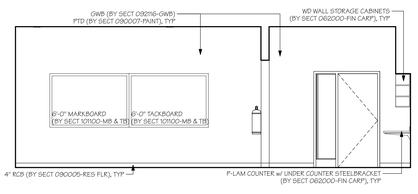


11 **024 TEACHER DINING / WORKROOM North**
SCALE: 1/4" = 1'-0"



12 **024 TEACHER DINING / WORKROOM East**
SCALE: 1/4" = 1'-0"



13 **024 TEACHER DINING / WORKROOM South**
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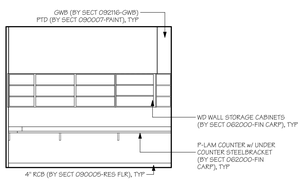
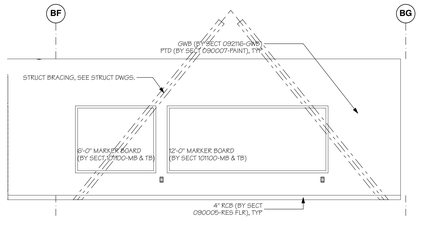
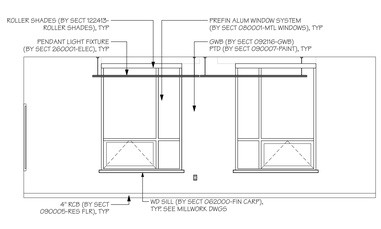


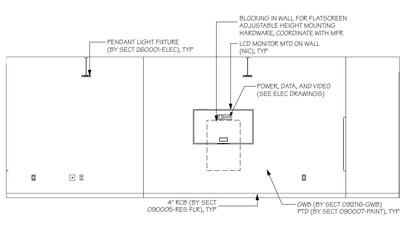
14 **024 TEACHER DINING / WORKROOM West**
SCALE: 1/4" = 1'-0"



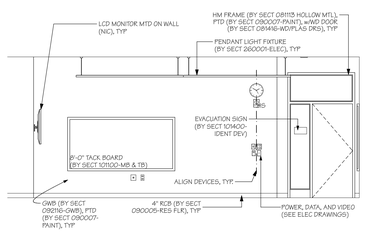
15 **031RISE MOTOR RM031 RISE MOTOR RM North**
SCALE: 1/4" = 1'-0"



16 **031RISE MOTOR RM031 RISE MOTOR RM East**
SCALE: 1/4" = 1'-0"



17 **030RISE-SMALL GROUP030 RISE-SMALL GROUP South**
SCALE: 1/4" = 1'-0"



18 **031RISE MOTOR RM031 RISE MOTOR RM West**
SCALE: 1/4" = 1'-0"

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KEY PLAN

NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 4 8

Revisions BS / TLD

Number	Date	Description

60% COST ESTIMATE SET

Interior Elevations - Offices and Classrooms

5.4.09

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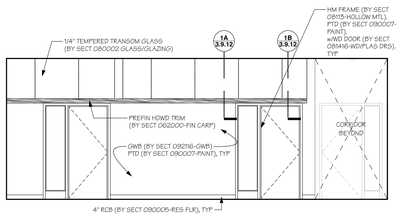
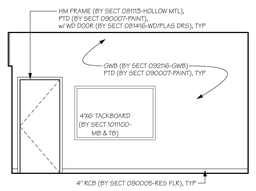
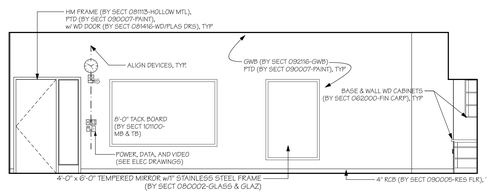


1 **C110 CORRIDOR West**
SCALE: 1/4" = 1'-0"



2 **155 PT North**
SCALE: 1/4" = 1'-0"



3 **155 PT East**
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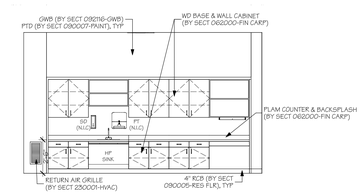
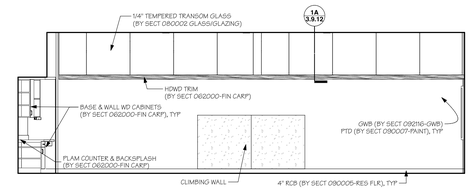
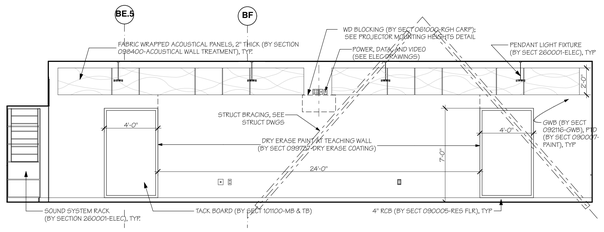


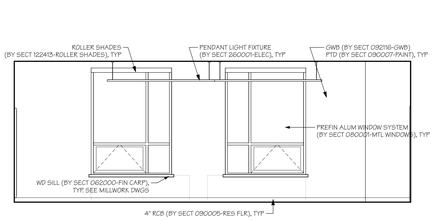
4 **155 PT South**
SCALE: 1/4" = 1'-0"



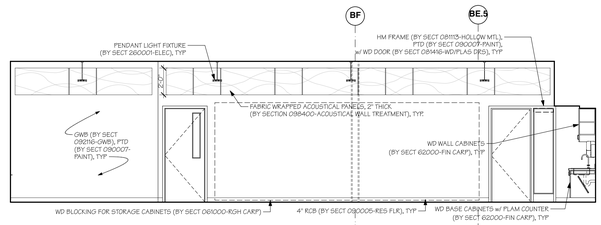
5 **155 PT West**
SCALE: 1/4" = 1'-0"



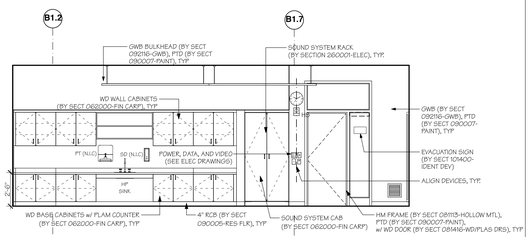
6 **130 MUSIC North**
SCALE: 1/4" = 1'-0"



7 **130 MUSIC East**
SCALE: 1/4" = 1'-0"



8 **130 MUSIC South**
SCALE: 1/4" = 1'-0"



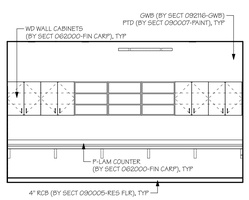
9 **130 MUSIC West**
SCALE: 1/4" = 1'-0"

10 **234 ART North**
SCALE: 1/4" = 1'-0"

11 **234 ART East**
SCALE: 1/4" = 1'-0"

12 **233 ART South**
SCALE: 1/4" = 1'-0"

13 **233 ART West**
SCALE: 1/4" = 1'-0"



17 **230 Teacher Dining/Workroom North**
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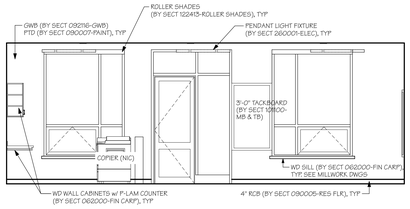
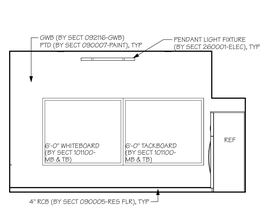
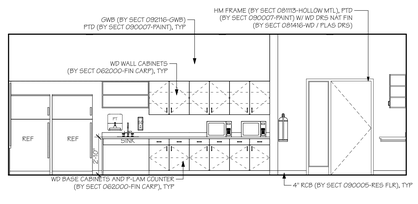


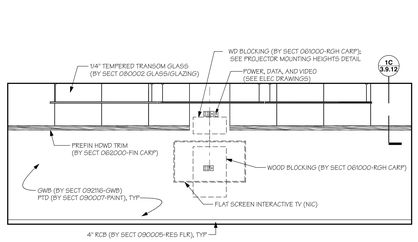
18 **230 Teacher Dining/Workroom East**
SCALE: 1/4" = 1'-0"



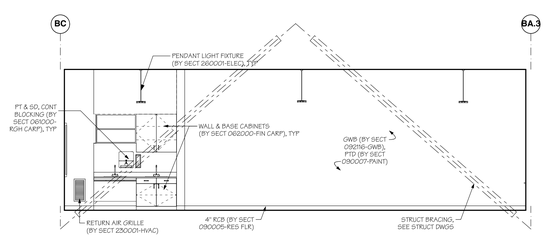
19 **230 Teacher Dining/Workroom South**
SCALE: 1/4" = 1'-0"



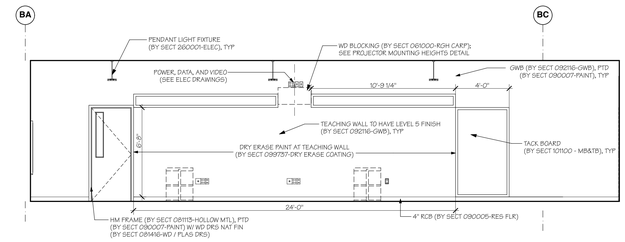
20 **230 Teacher Dining/Workroom West**
SCALE: 1/4" = 1'-0"



14 **255 EL West**
SCALE: 1/4" = 1'-0"



15 **147 LITERACY LIBRARY South**
SCALE: 1/4" = 1'-0"



16 **052 KINDERGARTEN North**
SCALE: 1/4" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 4 8

Revisions BS / TLD

Number	Date	Description

60% COST ESTIMATE SET

Interior Elevations - Offices and Classrooms

5.4.10

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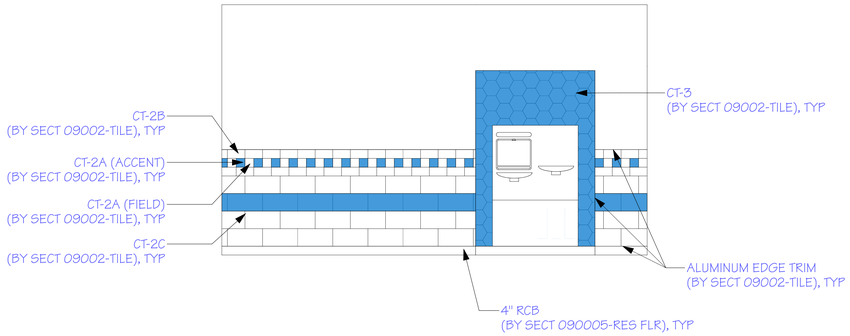
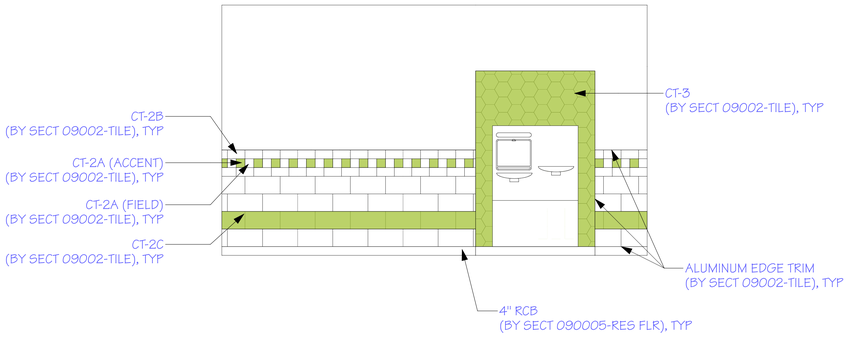
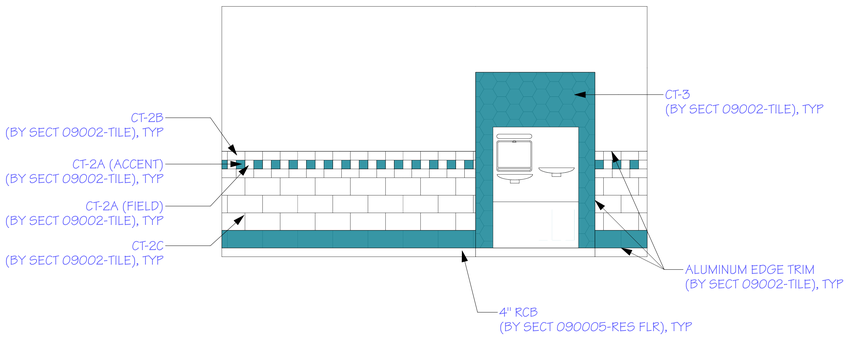


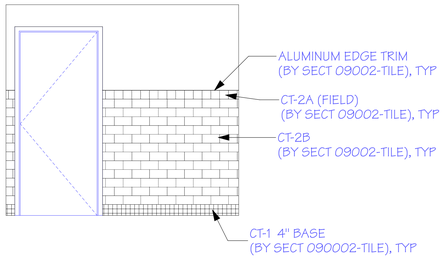
1 **Tile Pattern 1: 2nd Floor Academic Corridor Wainscot**
SCALE: 1/2" = 1'-0"



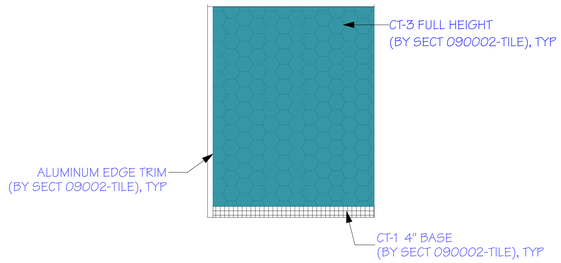
2 **Tile Pattern 2: 1st Floor Academic Corridor Wainscot**
SCALE: 1/2" = 1'-0"



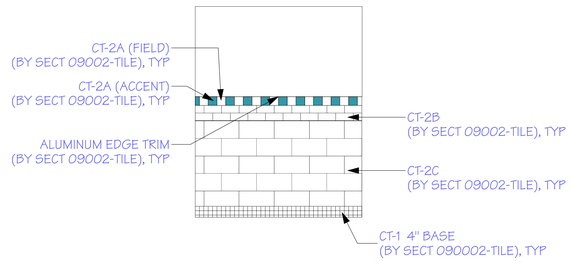
3 **Tile Pattern 3: Ground Floor Academic Corridor Wainscot**
SCALE: 1/2" = 1'-0"



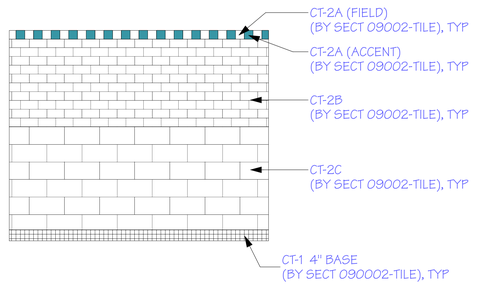
4 **Tile Pattern 4: Toilet Rooms (Student Single)**
SCALE: 1/2" = 1'-0"



5 **Tile Pattern 5: Toilet Rooms (Multi-Stall)**
SCALE: 1/2" = 1'-0"



6 **Tile Pattern 7: Toilet Rooms (Multi-Stall)**
SCALE: 1/2" = 1'-0"



7 **Tile Pattern 7: Toilet Rooms (Multi-Stall)**
SCALE: 1/2" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 2 4

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Interior Elevations - Tile Patterns

5.4.11

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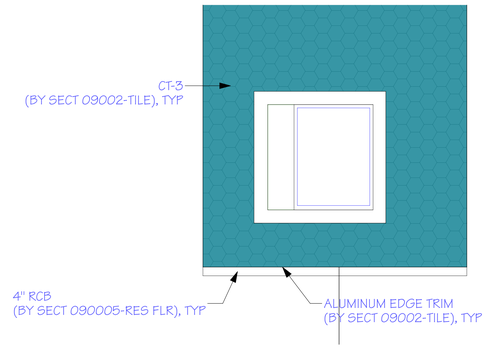
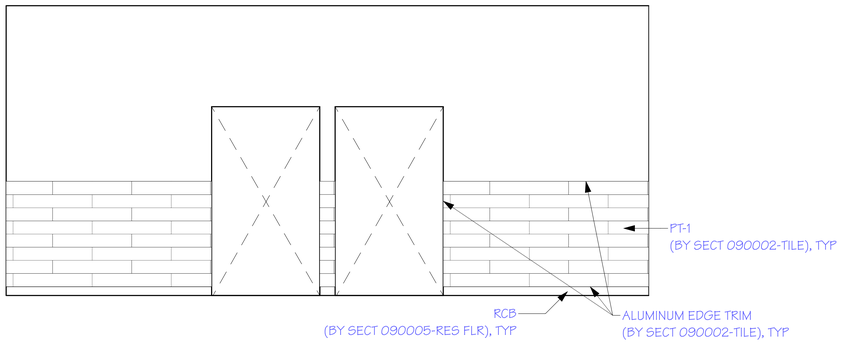
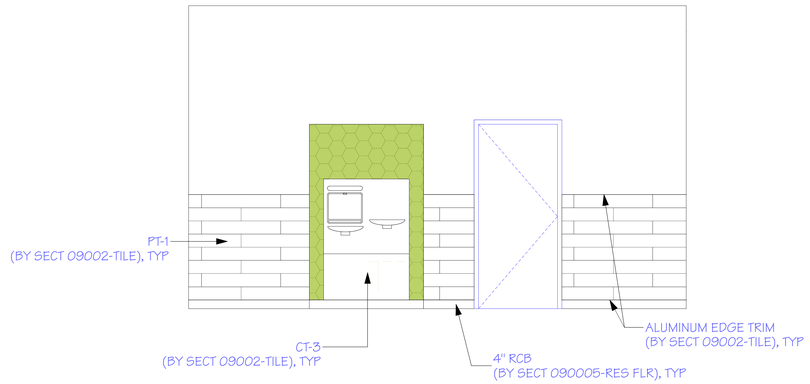


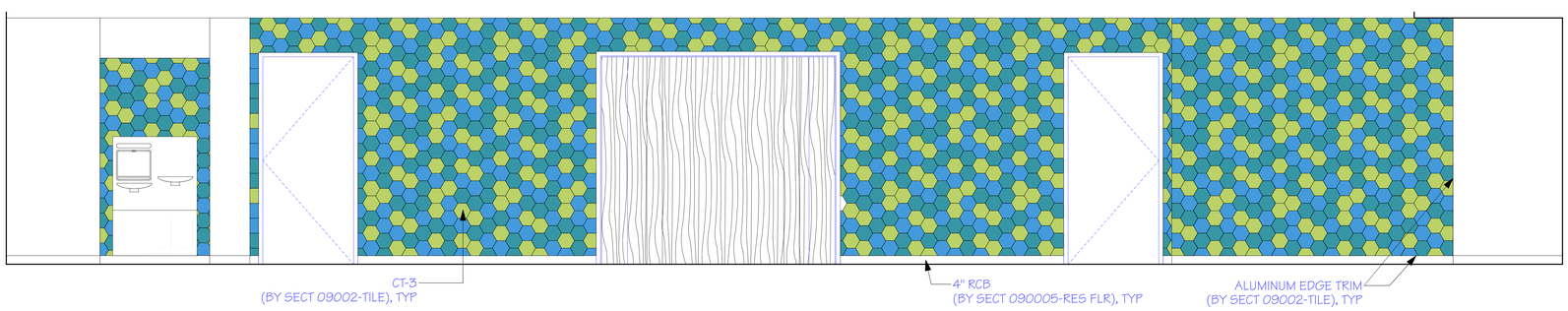
1 **Tile Pattern 8: Main Lobby Vestibule**
SCALE: 1/2" = 1'-0"



2 **Tile Pattern 9: Community Corridor Wainscot**
SCALE: 1/2" = 1'-0"



3 **Tile Pattern 10: Community Corridor @ Drinking Fountain**
SCALE: 1/2" = 1'-0"



3 **Tile Pattern 11: Cafeteria @ Servery**
SCALE: 1/2" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By:

Scale: 0 2 4

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Interior Elevations - Tile Patterns

5.4.12

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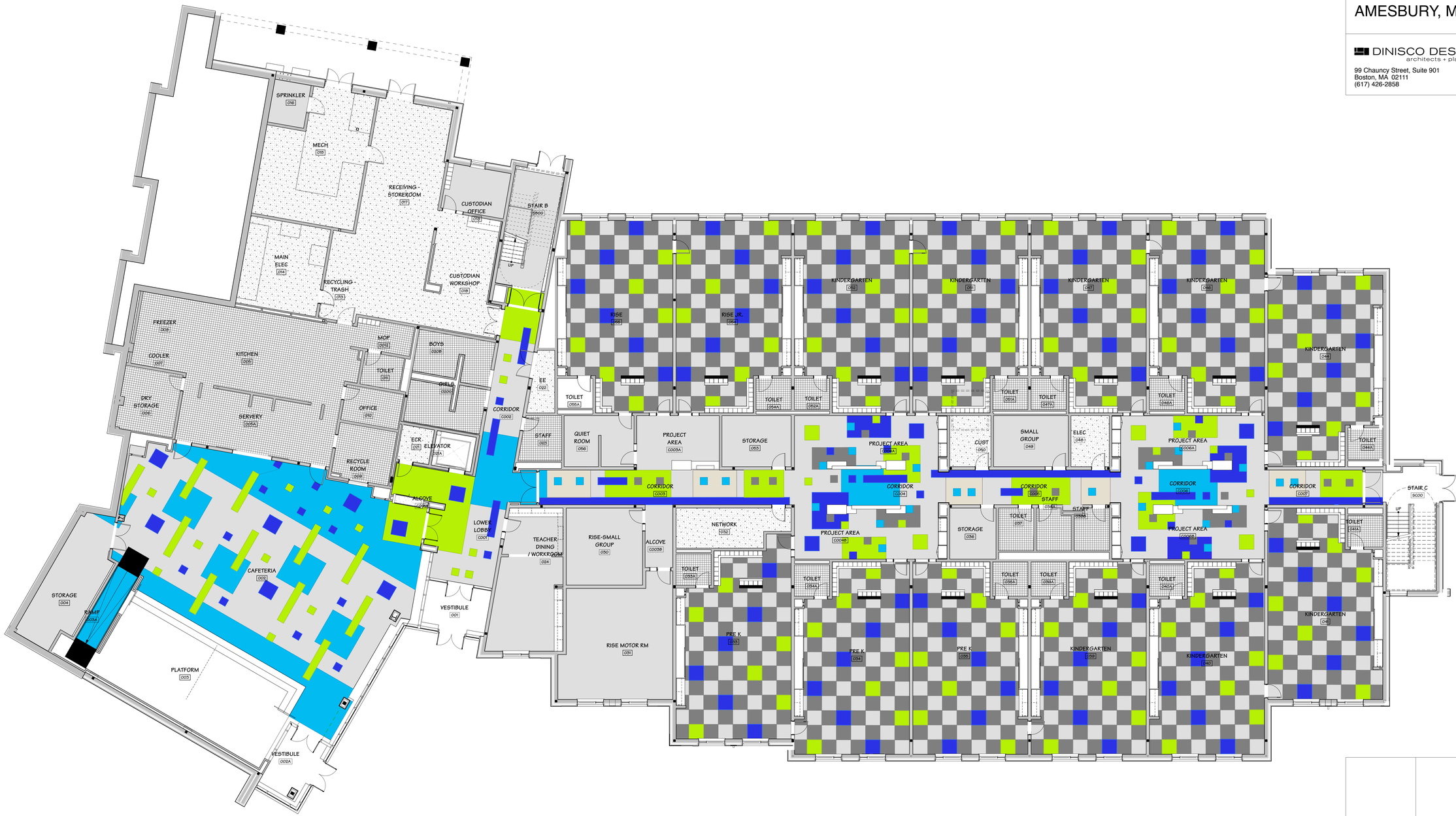

FLOOR FINISH LEGEND

2" x 2" CERAMIC TILE (BY SECT 090000-TILE)	1 LCT (BY SECT 090005-RES FLR) FIELD: CONCRETE 3136
6" x 6" QUARRY TILE (BY SECT 090000-TILE)	2 LCT (BY SECT 090005-RES FLR) FIELD: PLUTO 3718
SEALED CONCRETE (BY SECT 090007-PAINT)	3 LCT (BY SECT 090005-RES FLR) ACCENT: LAGUNA 3238
CARPET (BY SECT 096816-CARPETING)	4 LCT (BY SECT 090005-RES FLR) ACCENT: BLUE 3050
	5 LCT (BY SECT 090005-RES FLR) ACCENT: REFRESHING GREEN 3258
	6 LCT (BY SECT 090005-RES FLR) ACCENT: ROSARIO 3122

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: MEH

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Floor Patterns - Ground Floor

5.5.01

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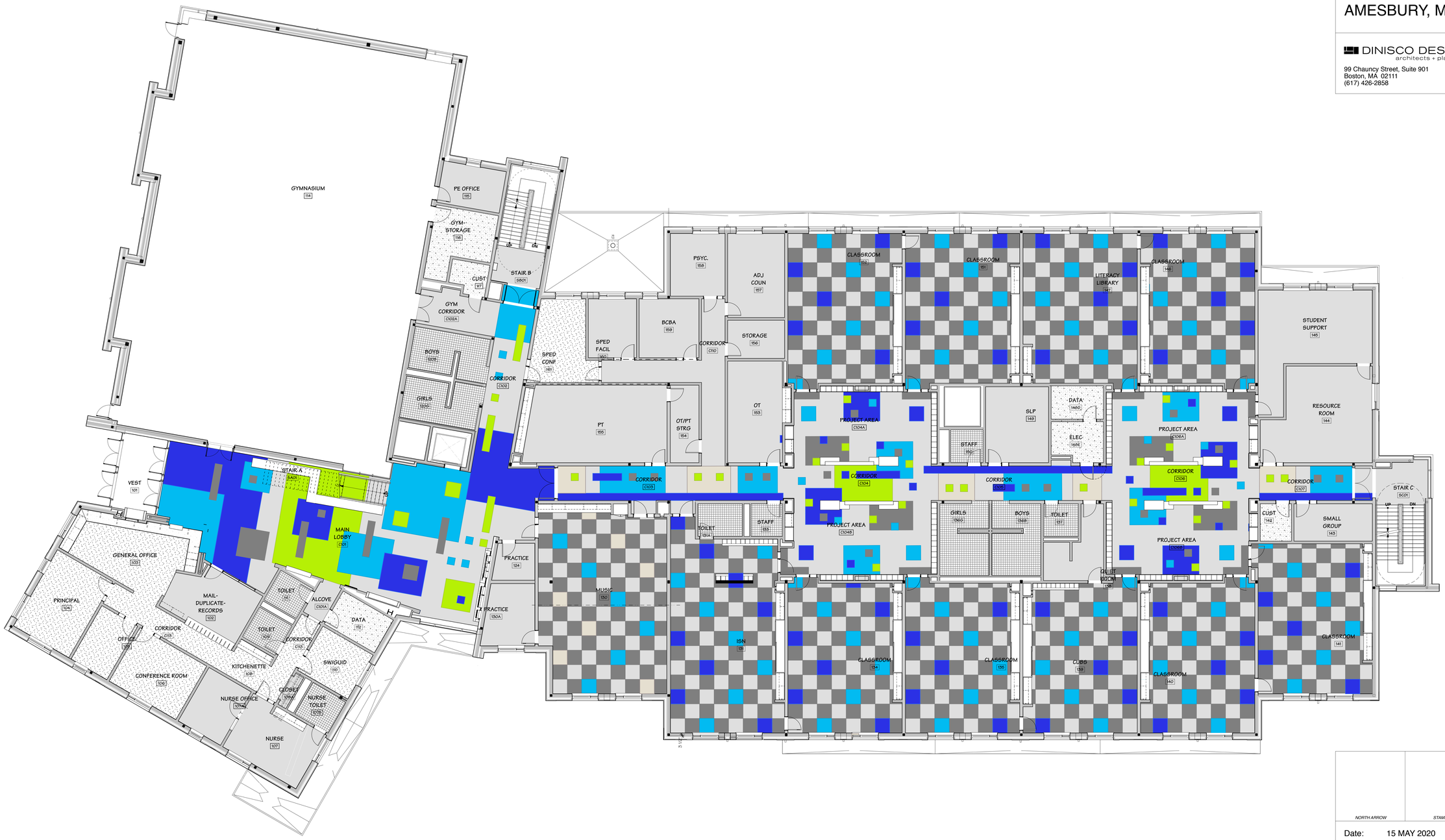

FLOOR FINISH LEGEND

- 2" x 2" CERAMIC TILE (BY SECT 090002-TILE)
- 6" x 6" QUARRY TILE (BY SECT 090002-TILE)
- SEALED CONCRETE (BY SECT 090007-PAINT)
- CARPET (BY SECT 096816-CARPETING)
- 1 LCT (BY SECT 090005-RES FLR) FIELD: CONCRETE 3136
- 2 LCT (BY SECT 090005-RES FLR) FIELD: PLUTO 3718
- 3 LCT (BY SECT 090005-RES FLR) ACCENT: LAGUNA 3238
- 4 LCT (BY SECT 090005-RES FLR) ACCENT: BLUE 3050
- 5 LCT (BY SECT 090005-RES FLR) ACCENT: REFRESHING GREEN 3258
- 6 LCT (BY SECT 090005-RES FLR) ACCENT: ROSATO 3120

NORTH ARROW

STAMP

Date: 15 MAY 2020

Drawn By: MEH

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Floor Patterns - First Floor

5.5.02

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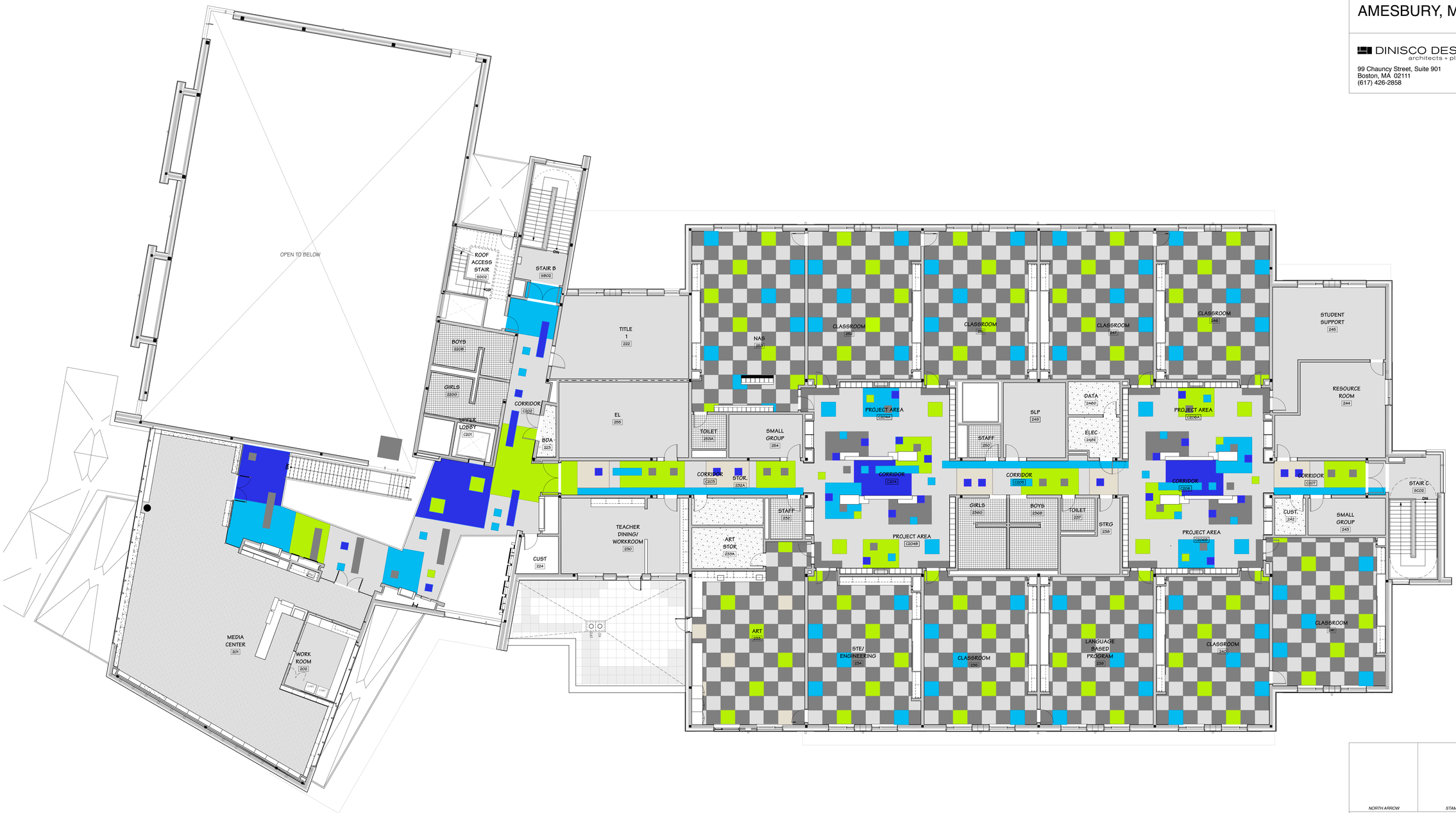

FLOOR FINISH LEGEND

- 2" x 2" CERAMIC TILE (BY SECT 090002-TILE)
- 6" x 6" QUARRY TILE (BY SECT 090002-TILE)
- SEALED CONCRETE (BY SECT 090007-PAINT)
- CARPET (BY SECT 096816-CARPETING)
- 1 LCT (BY SECT 090005-RES FLR) FIELD: CONCRETE 3136
- 2 LCT (BY SECT 090005-RES FLR) FIELD: PLUTO 3718
- 3 LCT (BY SECT 090005-RES FLR) ACCENT: LAGUNA 3238
- 4 LCT (BY SECT 090005-RES FLR) ACCENT: BLUE 3050
- 5 LCT (BY SECT 090005-RES FLR) ACCENT: REFRESHING GREEN 3258
- 6 LCT (BY SECT 090005-RES FLR) ACCENT: ROSATO 3120

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: MEH

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Floor Patterns - Second Floor

5.5.03

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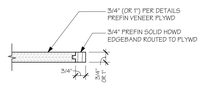
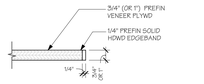
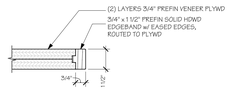


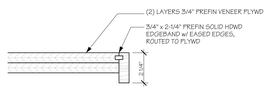
1 TYP **3/4" Edgeband**
SCALE: 3" = 1'-0"



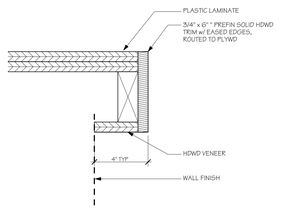
2 TYP **1/4" Edgeband**
SCALE: 3" = 1'-0"



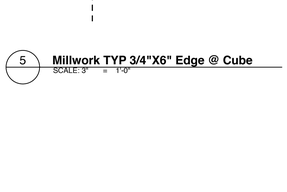
3 TYP **3/4" x 1 1/2" Edgeband**
SCALE: 3" = 1'-0"



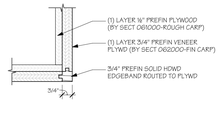
4 TYP **3/4"X 2 1/4" Edge**
SCALE: 3" = 1'-0"



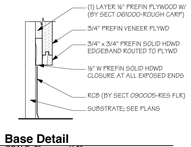
5 TYP **Millwork TYP 3/4"X6" Edge @ Cube**
SCALE: 3" = 1'-0"



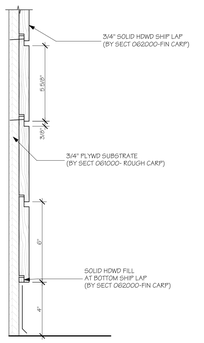
6 TYP **Panel Edges at Reveal**
SCALE: 3" = 1'-0"



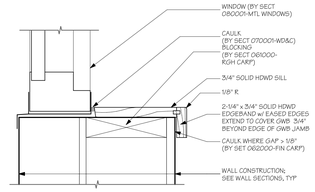
7 TYP **Corner Detail**
SCALE: 3" = 1'-0"



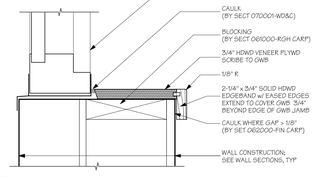
8 TYP **Base Detail**
SCALE: 3" = 1'-0"



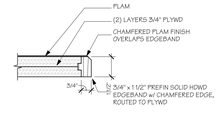
11 TYP **Millwork Typical Shiplap**
SCALE: 3" = 1'-0"



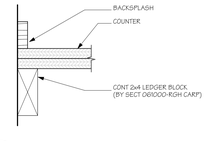
12 TYP **Window Sill ≤ 8"**
SCALE: 3" = 1'-0"



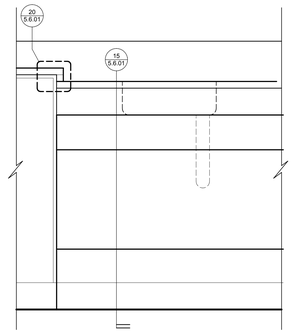
13 TYP **Window Sill > 8"**
SCALE: 3" = 1'-0"



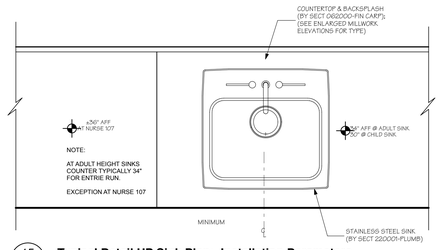
9 TYP **Countertop Edgeband**
SCALE: 3" = 1'-0"



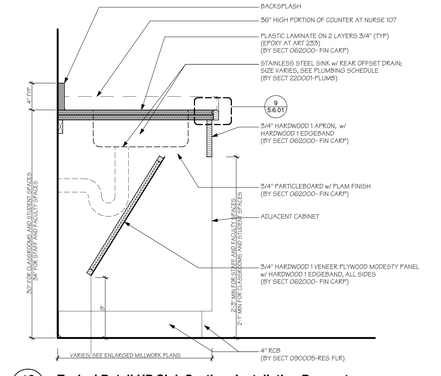
10 TYP **Counter Support**
SCALE: 3" = 1'-0"



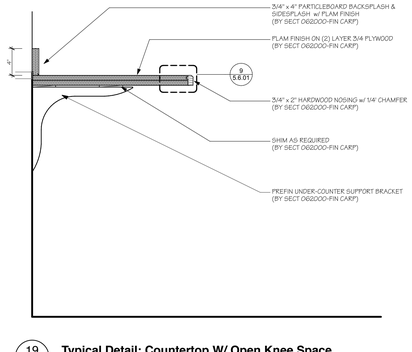
14 TYP **Typical Detail HP Sink Elevation: Installation Parameters**
SCALE: 1 1/2" = 1'-0"



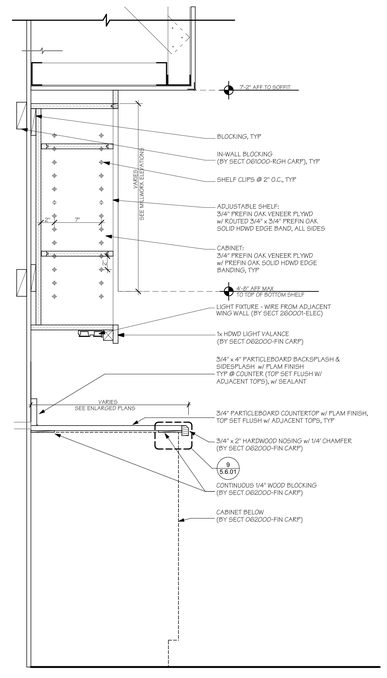
15 TYP **Typical Detail HP Sink Plan: Installation Parameters**
SCALE: 1 1/2" = 1'-0"



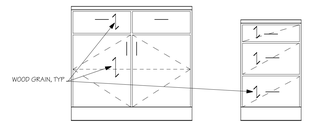
16 TYP **Typical Detail HP Sink Section: Installation Parameters**
SCALE: 1 1/2" = 1'-0"



19 TYP **Typical Detail: Countertop W/ Open Knee Space**
SCALE: 1 1/2" = 1'-0"

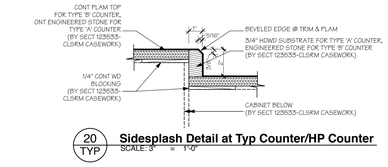


17 TYP **Typical Detail Countertop at Base Cabinet & Upper Cabinet**
SCALE: 1 1/2" = 1'-0"

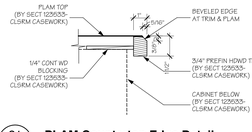


18 TYP **Typical Wood Veneer Grain Direction**
SCALE: 3/4" = 1'-0"

ALL VENEER PLYWOOD DOORS, DRAWER FRONTS AND FALSE FRONTS SHALL RUN AND MATCH VERTICALLY AND BE SEQUENCED HORIZONTALLY WITHIN EACH CABINET UNIT; AND AT CATHEDRAL GRAIN, THE CROWN SHALL BE POINTING UP AND RUN IN THE SAME DIRECTION FOR THE ENTIRE PROJECT. DOORS, DRAWER FRONTS AND FALSE FRONTS SHALL BE WELL MATCHED FOR COLOR AND GRAIN ACROSS MULTIPLE CABINET FACES IN ONE ELEVATION.



20 TYP **Sidesplash Detail at Typ Counter/HP Counter**
SCALE: 3" = 1'-0"



21 TYP **PLAM Countertop Edge Detail**
SCALE: 3" = 1'-0"

NOTE:
- ALL MILLWORK BY SECTION 062000-FIN CARP UNLESS OTHERWISE NOTED
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- ALL FINISHED CARPENTRY LOCATED IN RAMPS, PASSAGES, CORRIDORS, LOBBIES AND VESTIBULES, OR OTHER CIRCULATION SPACES SHALL BE MINIMUM CLASS 'B' FIRE RATED WITH FIRE RETARDANT ROUGH CARPENTRY FRAMING

Millwork Hardware Schedule:

1. Door & Drawer Wire Pulls	Stanley # 4484 US 28
2. Concealed Hinges (Flush Overlay Doors)	Grass # 1203
3. Face Frame Hinges (Flush Inset Doors)	Stanley # 1585
4. Drawer and Door Locks	Hafele
(For all cabinet drawers and doors)	# 235.12.(thickness) @ Doors
Keyed alike, with offset cams and strikes as required.	# 235.14.(thickness) @ Drawers
5. Drawer Slides	Grass # 6600
6. Keyboard Tray	KV # 5710 Black
7. Locking Shelf Supports	Rockler # 24398
8. Coat Hooks	REI # 983
9. Grommets	Hafele # 429.97.420
10. Name Tag Holder	1/2" x 2 1/2" US26 D Finish
11. Adjustable Shelving:	
Shelf Standards	Spur 9000 Series
Shelf Brackets	Spur 9003 Series
12. Under Counter Support Bracket:	Hafele SS # 287.77.002
	Hafele SS # 287.77.003
13. "Labora" Sliding Glass Door Fitting	All by Hafele including:
Double Guide Track	# 415.08.963
Runner Housing Profile	# 425.08.927
Rubber Strip, 32x1.5mm	# 416.10.002
Runner, Runner with Plain End Cap	# 415.08.954, 415.08.918
Double Supporting Track	# 415.08.936

Hardware Manufacturers:

Stanley Hardware Farmington, CT 06032	Grass America Inc. Kernsville, NC 72784
Hafele Amercia Inc. Archdale, NC 27263	Spur New Tech Hardware Winchester, MA 01890
Raymond Enigineering Inc. St. Paul, MN 55114	Rockler Woodworking and Hardware Medina, MN 55340

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EdVance Technology Design, Inc.
Technology Consultants
300 Brickstone Square, Suite 201
Andover, MA 01880
(978) 256-9900

KEY PLAN

NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By: TJM

Scale: 0 8" 16"

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Millwork - Typical Details

5.6.01

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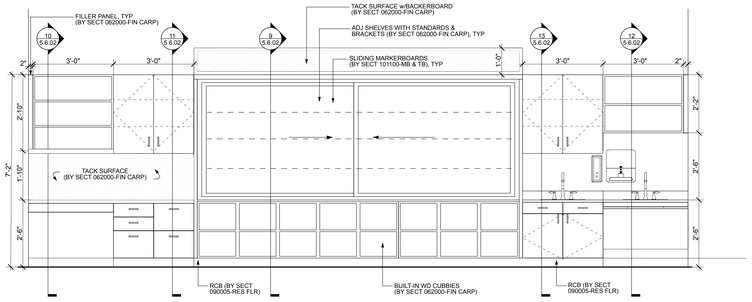
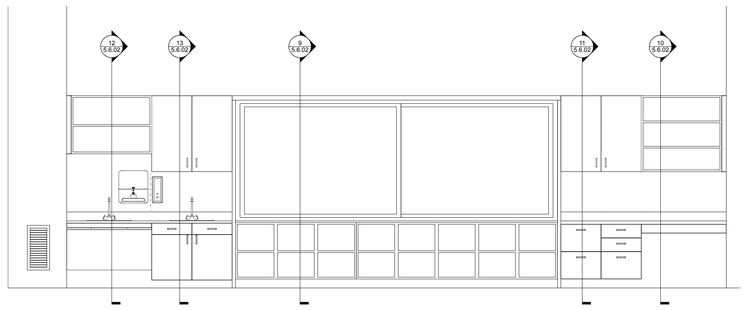
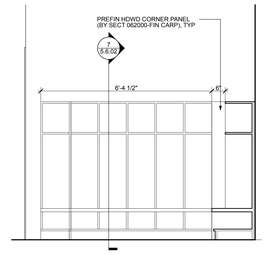


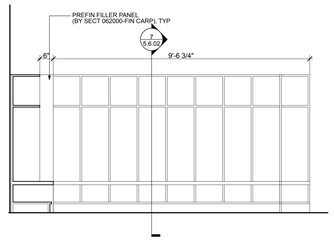
1 **Pre-Kindergarten Millwork Elevation Storage Wall**
SCALE: 1/2" = 1'-0"



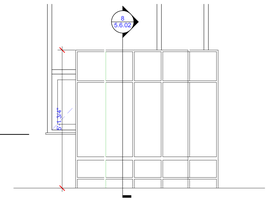
2 **Classroom Millwork Elevation Storage Wall**
SCALE: 1/2" = 1'-0"



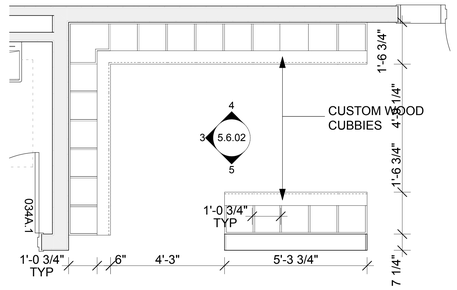
3 **Cubby Millwork Elevation A**
SCALE: 1/2" = 1'-0"



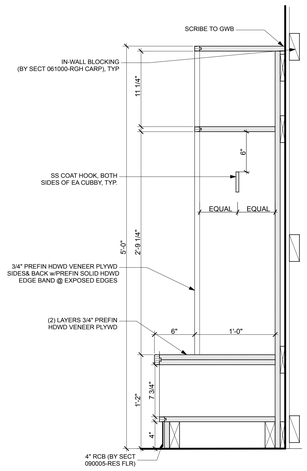
4 **Cubby Millwork Elevation B**
SCALE: 1/2" = 1'-0"



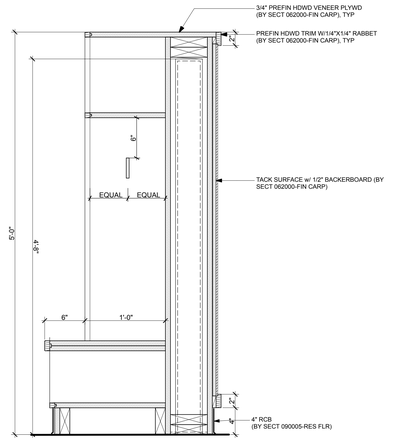
5 **Cubby Millwork Elevation C**
SCALE: 1/2" = 1'-0"



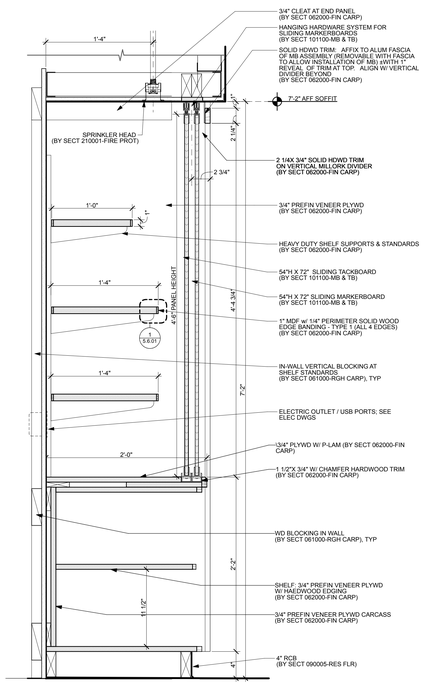
6 TYP **Cubbies Enlarged Plan**
SCALE: 1/2" = 1'-0"



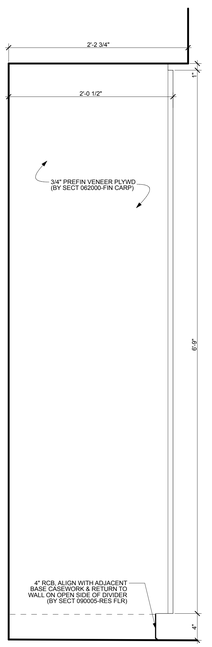
7 **Cubby - Section @ Wall**
SCALE: 1 1/2" = 1'-0"



8 **Cubby - Section @ Divider**
SCALE: 1 1/2" = 1'-0"

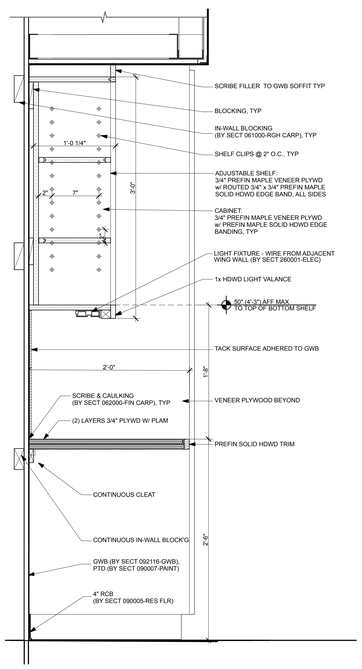


SECTION AT STORAGE UNIT

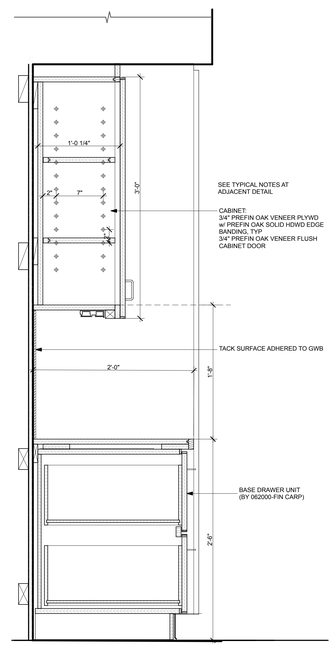


PROFILE OF VERTICAL MILLWORK DIVIDER

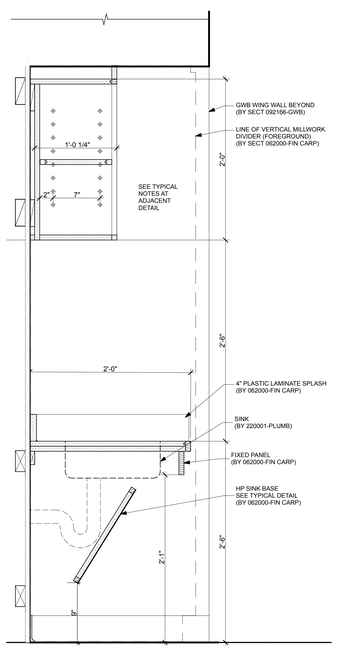
9 **Classroom Storage Unit Section**
SCALE: 1 1/2" = 1'-0"



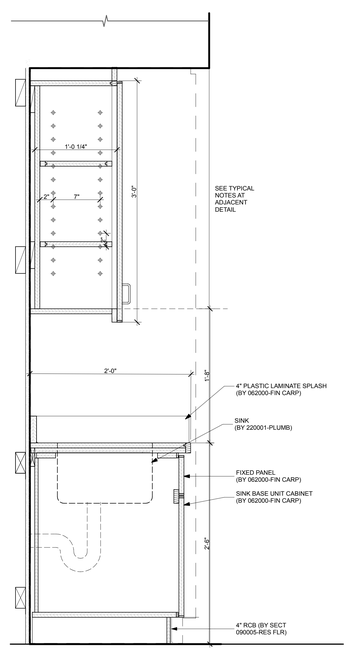
10 **Classroom - Section @ Teachers Desk**
SCALE: 1 1/2" = 1'-0"



11 **Classroom - Section at Teacher Desk Cabinets**
SCALE: 1 1/2" = 1'-0"



12 **Classroom - Section @ HC Sink**
SCALE: 1 1/2" = 1'-0"



13 **Classroom - Section @ Deep Sink**
SCALE: 1 1/2" = 1'-0"

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KEY PLAN

NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By: TM

Scale: 0 4 8

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Millwork - Pre-K, Kindergarten & Classrooms

5.6.02

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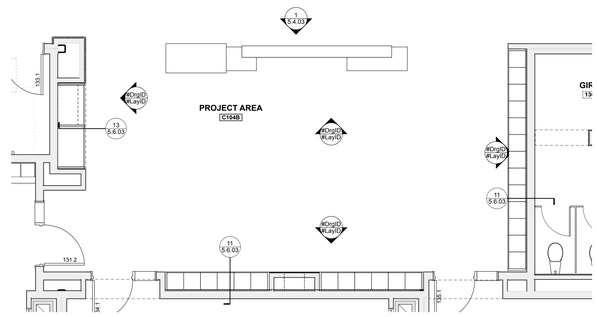
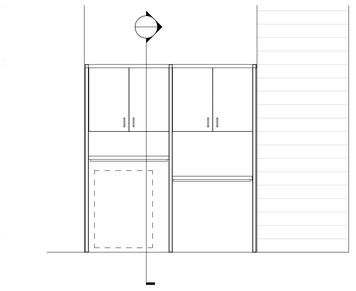
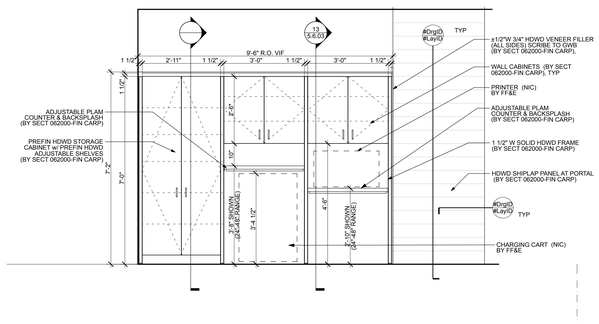


1 **Project Area @ Grades 1 & 2**
SCALE: 1/4" = 1'-0"



3 **Classroom Project Area Millwork Elevation (@Cart & Printer)**
SCALE: 1/2" = 1'-0"



4 **Kindergarten Project Area Millwork Elevation (@Cart & Printer)**
SCALE: 1/2" = 1'-0"

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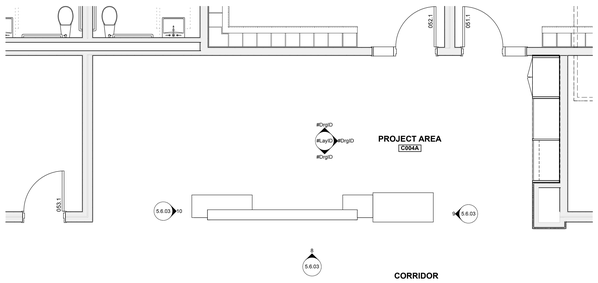
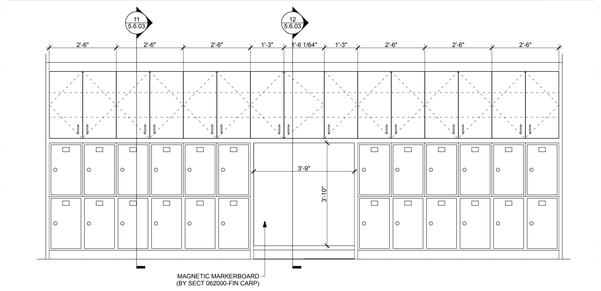
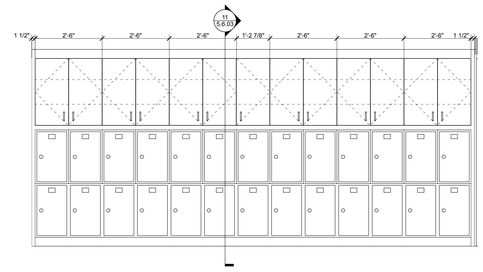


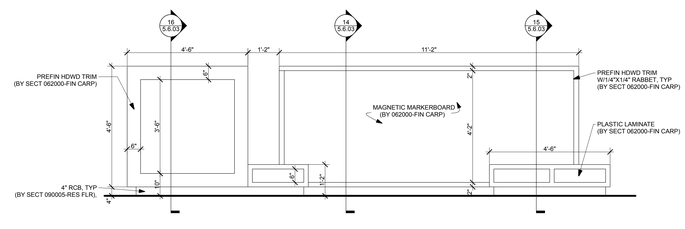
2 **Project Area @ Pre-K & Kindergarten**
SCALE: 1/4" = 1'-0"



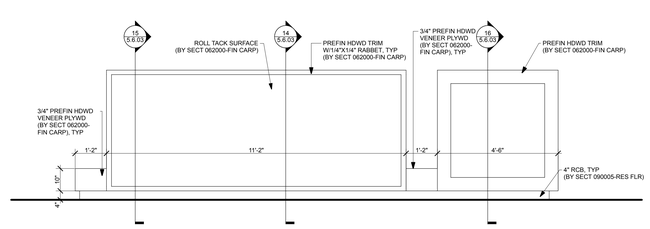
5 **Classroom Project Area Millwork Elevation A (@Lockers)**
SCALE: 1/2" = 1'-0"



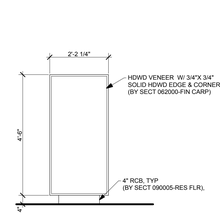
6 **Classroom Project Area Millwork Elevation B (@ Lockers)**
SCALE: 1/2" = 1'-0"



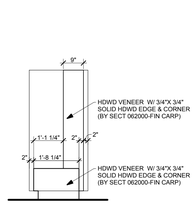
7 **Project Area Millwork Elevation Cube Wall**
SCALE: 1/2" = 1'-0"



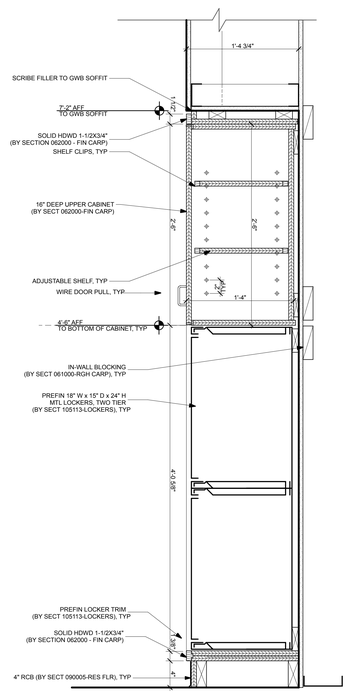
8 **Project Area Millwork Elevation Cube wall (Corridor)**
SCALE: 1/2" = 1'-0"



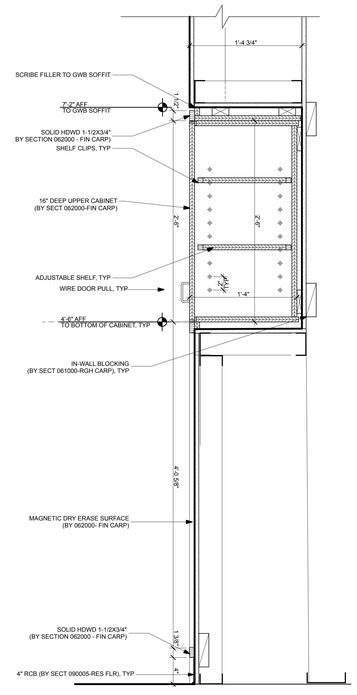
9 **Project Area Millwork Elevation (End @ Cube)**
SCALE: 1/2" = 1'-0"



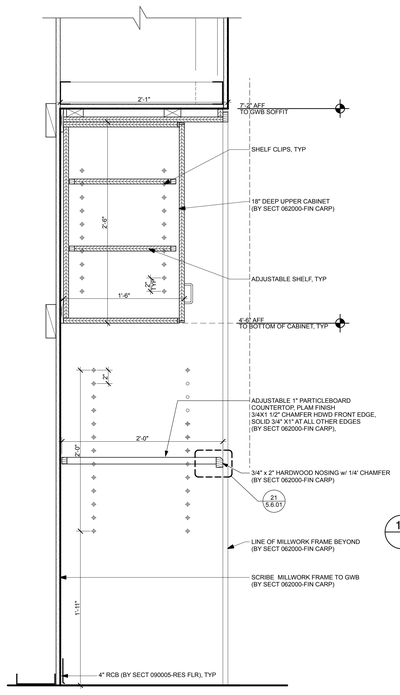
10 **Project Area Millwork Elevation (End @ Seat)**
SCALE: 1/2" = 1'-0"



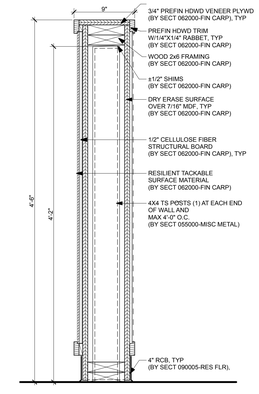
11 **Classroom Project Area - Perimeter@ Lockers Section**
SCALE: 1 1/2"= 1'-0"



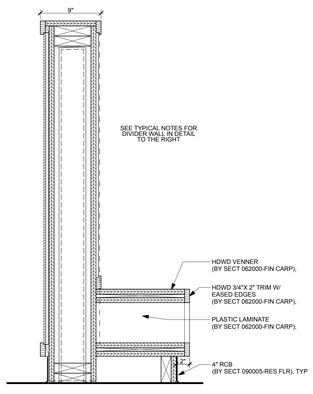
12 **Classroom Project Area - Perimeter @ Markerboard**
SCALE: 1 1/2"= 1'-0"



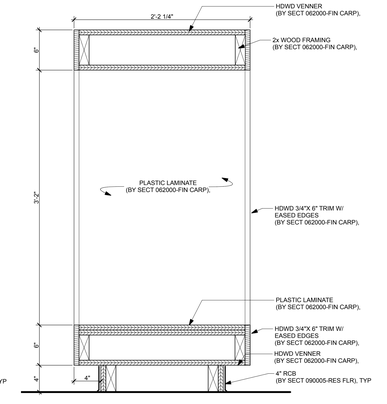
13 TYP **Project Area - Printer Station W/ Wall Cabinet**
SCALE: 1 1/2"= 1'-0"



14 **Project Area Divider Wall - Section @ Marker Board)**
SCALE: 1 1/2"= 1'-0"



15 **Project Area Divider Wall -Section @ Bench**
SCALE: 1 1/2"= 1'-0"



16 **Project Area Divider Wall - Section @ Cube**
SCALE: 1 1/2"= 1'-0"

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KEY PLAN

NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By: TJM

Scale: 0 4 8

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Millwork - Project Areas

5.6.03

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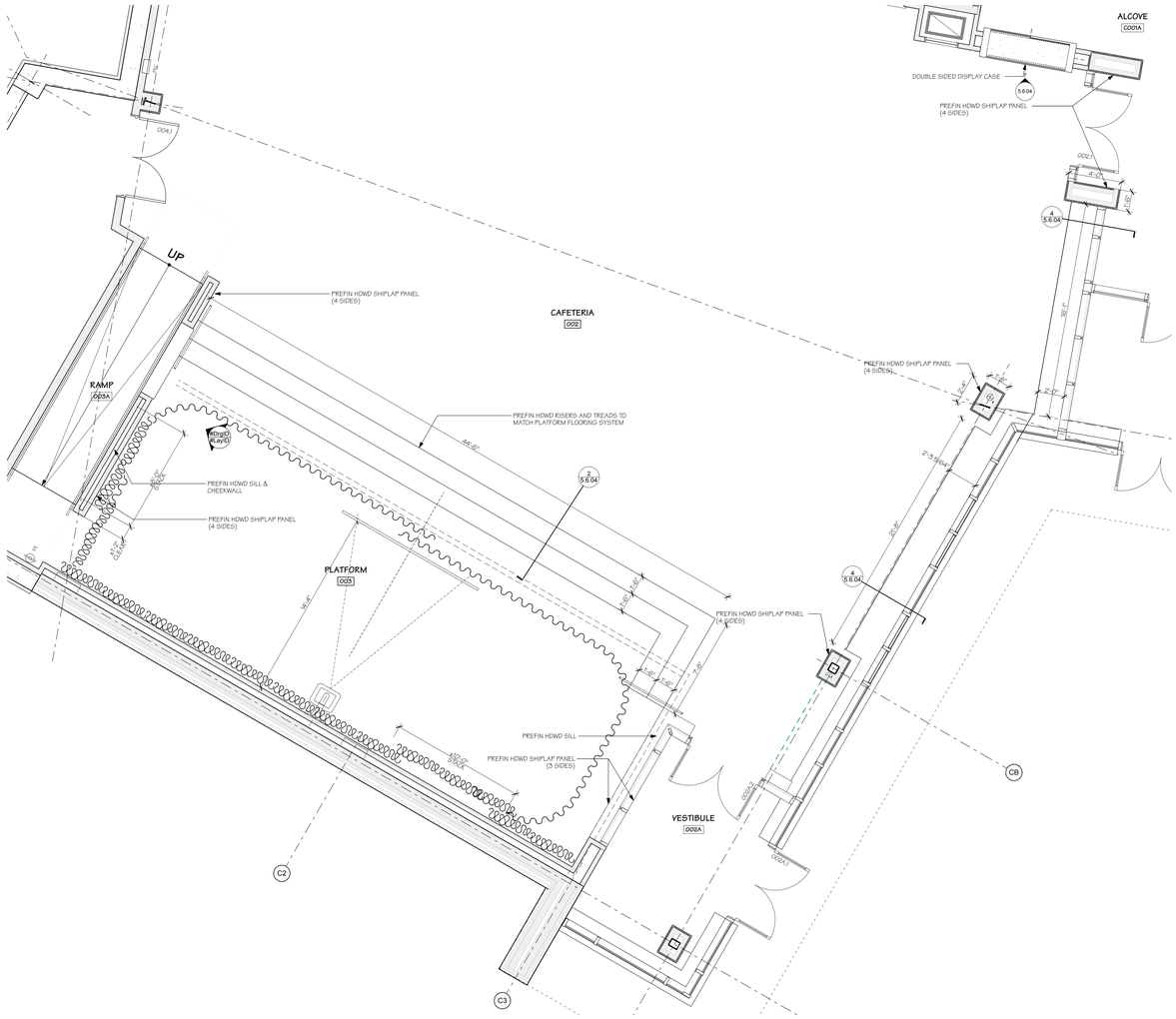
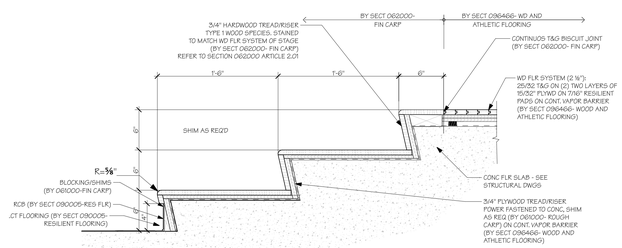
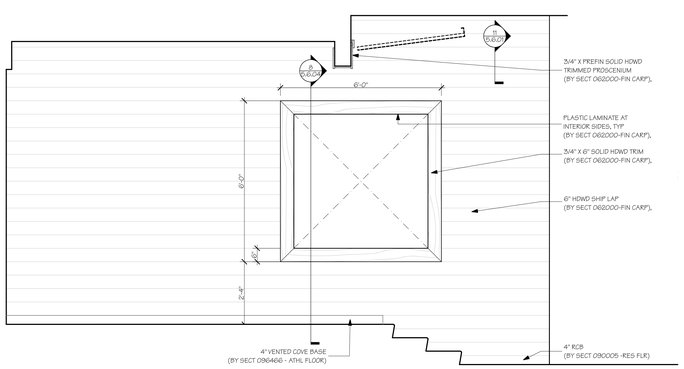


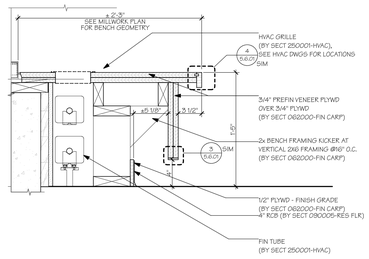
1 **Enlarged Plan of Cafeteria Platform**
SCALE: 1/4" = 1'-0"



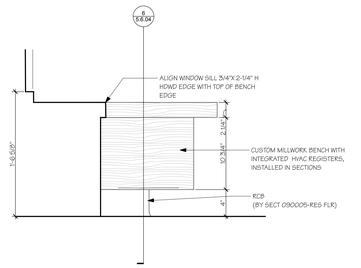
2 **Platform Riser Section**
SCALE: 1 1/2"= 1'-0"



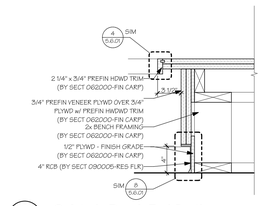
3 **Cafeteria - Proscenium Wall**
SCALE: 1/2" = 1'-0"



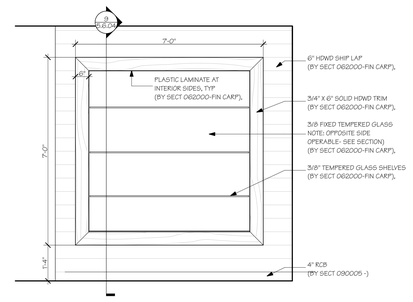
4 **Cafeteria Bench Section**
SCALE: 1 1/2" = 1'-0"



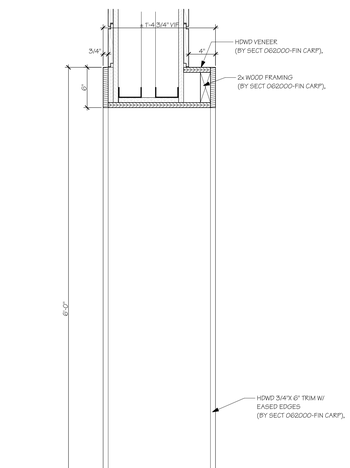
5 **Cafeteria Bench End Elevation**
SCALE: 1 1/2" = 1'-0"



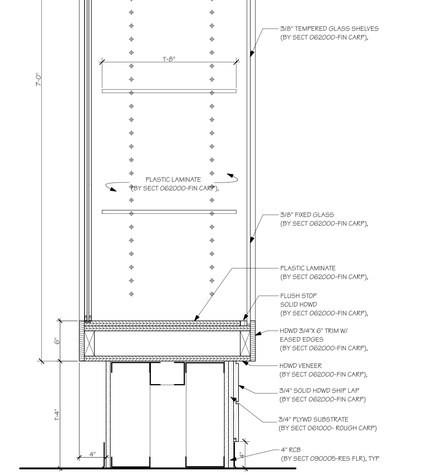
6 **Cafeteria Bench End Section**
SCALE: 1 1/2" = 1'-0"



7 **Cafeteria -Display case**
SCALE: 1/2" = 1'-0"



8 **Cafeteria Section at Proscenium Window**
SCALE: 1 1/2" = 1'-0"



9 **Cafeteria - Section at Display Case**
SCALE: 1 1/2" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: TM

Scale: 0 4 8

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Millwork - Cafeteria & Platform

5.6.04

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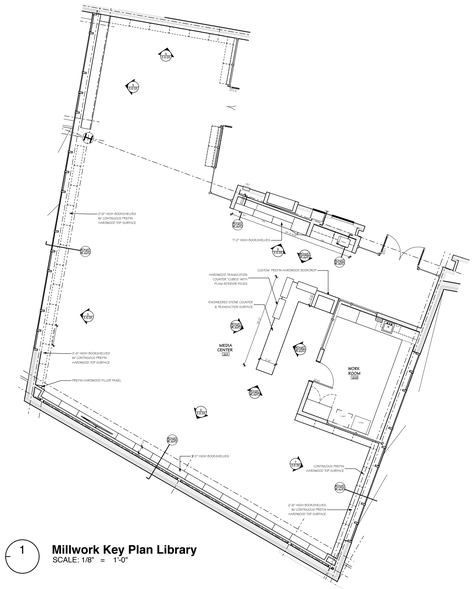
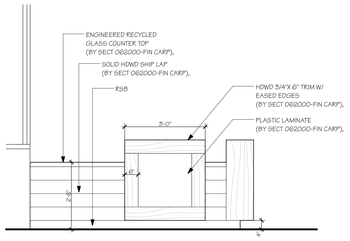
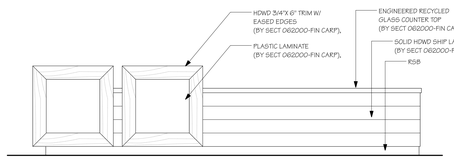


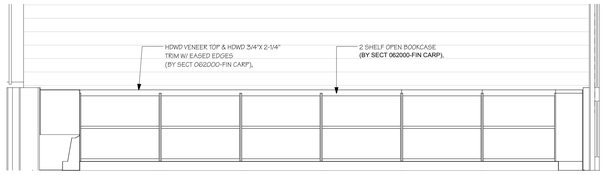
1 **Millwork Key Plan Library**
SCALE: 1/8" = 1'-0"



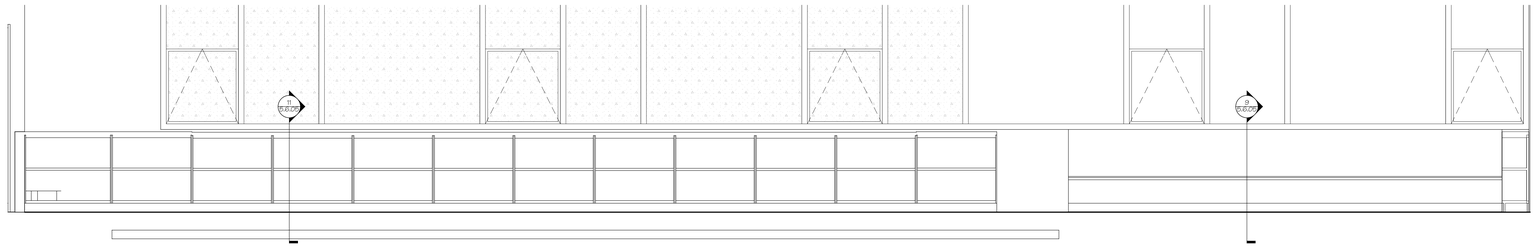
2 **Library Millwork Elevation - Desk @ Book Return**
SCALE: 1/2" = 1'-0"



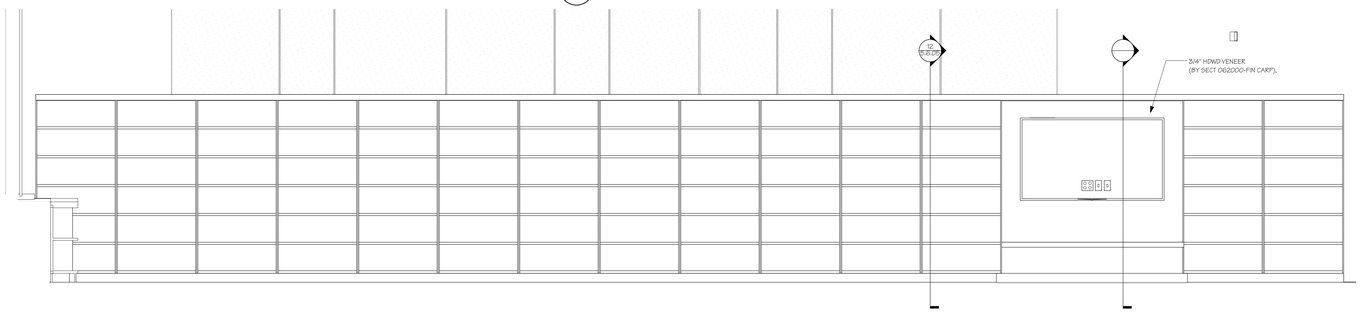
3 **Library Millwork Elevation-Desk**
SCALE: 1/2" = 1'-0"



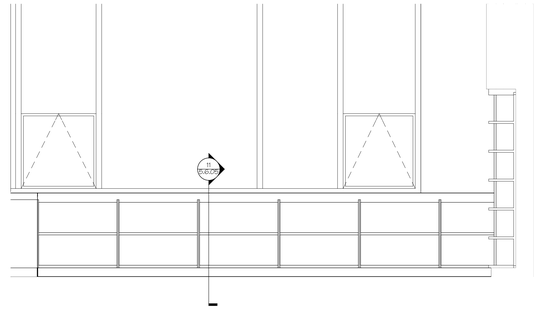
4 **Library Millwork - West Elevation @ Phenolic Wall**
SCALE: 1/2" = 1'-0"



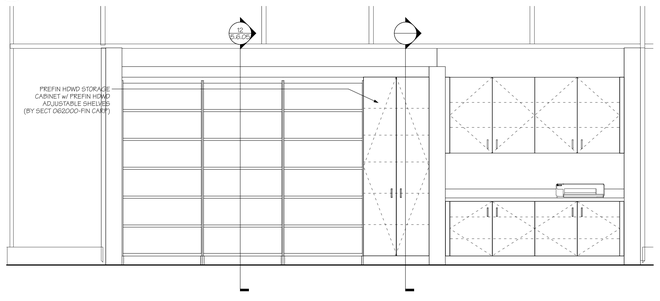
5 **Library Millwork- South Elevation**
SCALE: 1/2" = 1'-0"



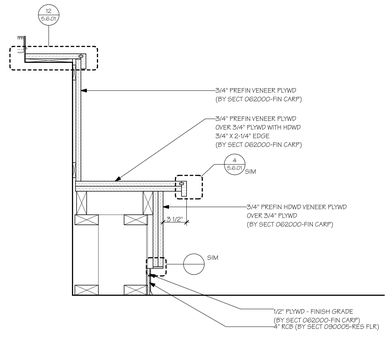
6 **Library Millwork - East Elevation**
SCALE: 1/2" = 1'-0"



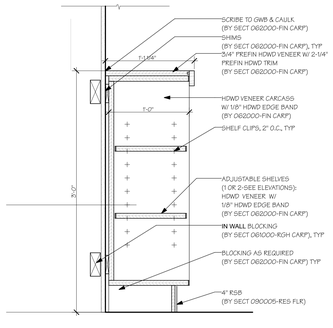
7 **Library Millwork - North Elevation**
SCALE: 1/2" = 1'-0"



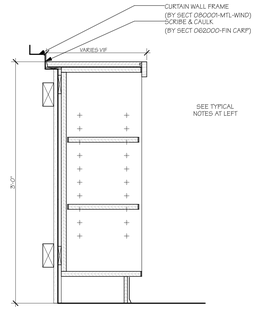
8 **Library Millwork - West Elevation @ Computer**
SCALE: 1/2" = 1'-0"



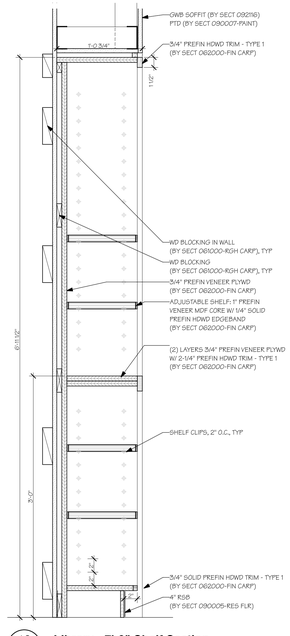
9 **Library-Section @ Bench**
SCALE: 1 1/2"= 1'-0"



10 **Library Low height Bookcase-Section @ Wall**
SCALE: 1 1/2"= 1'-0"



11 **Library Low height Bookcase-Section @ Exterior**
SCALE: 1 1/2"= 1'-0"



12 **Library - 7'-0" Shelf Section**
SCALE: 1 1/2"= 1'-0"

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KEY PLAN

NORTH ARROW STAMP

Date: 15 MAY 2020

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Scale: 0 4 8

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Millwork - Library

5.6.05

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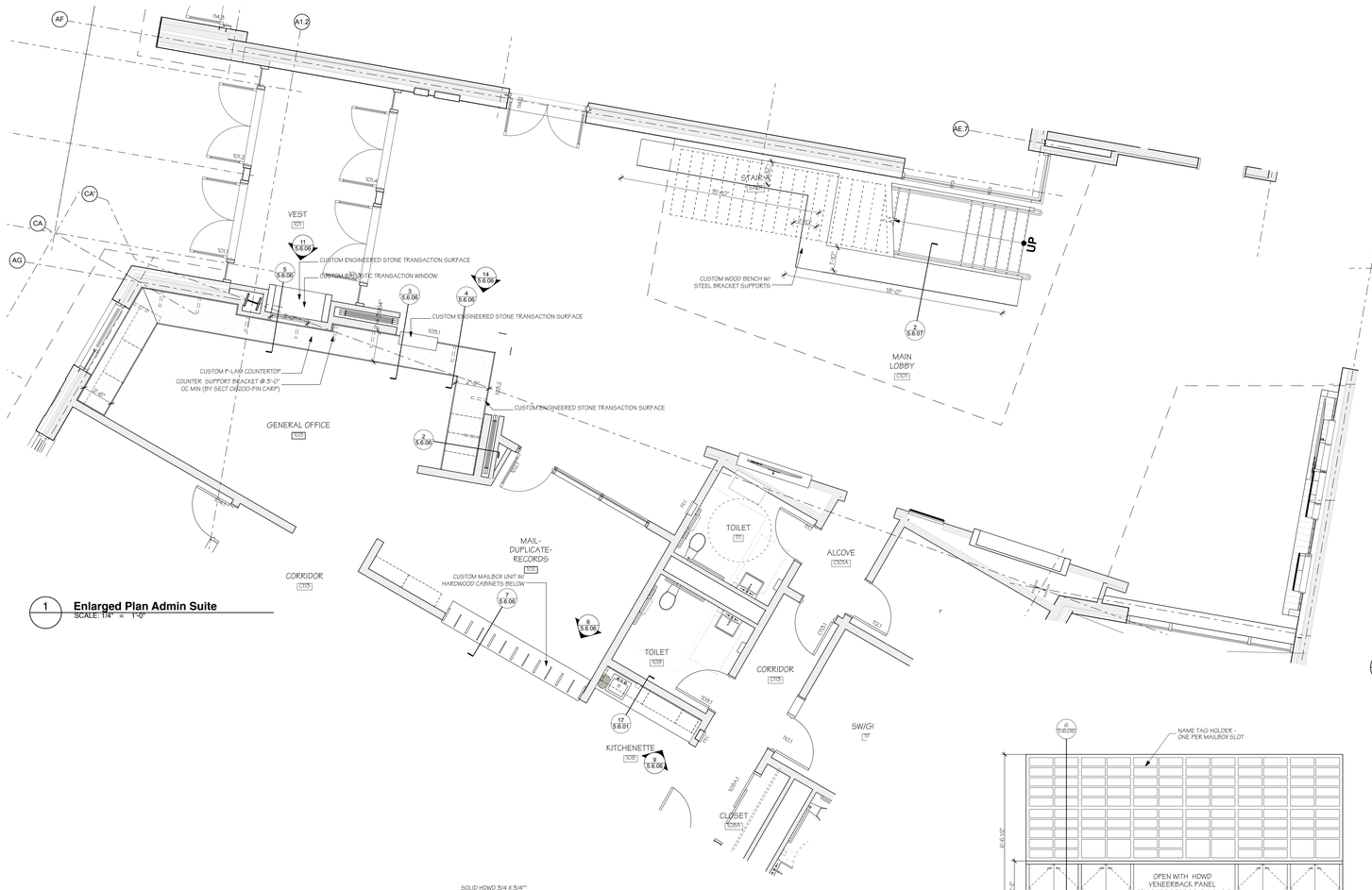
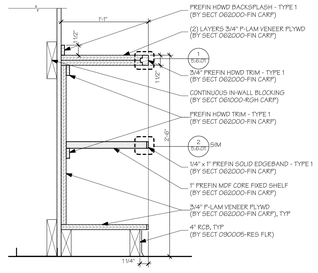


1 **Enlarged Plan Admin Suite**
SCALE: 1/4" = 1'-0"

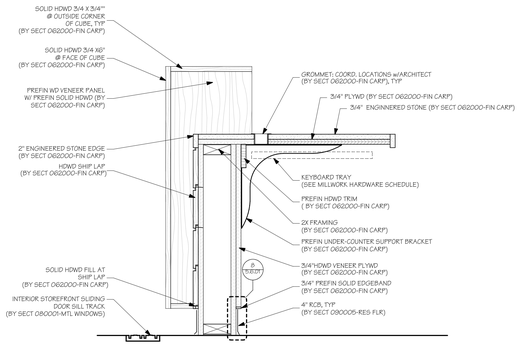
8 **Nurse 106**
SCALE: 1/4" = 1'-0"

9 **Kitchenette / Mailbox- Northwest Elevation**
SCALE: 1/2" = 1'-0"

10 **Nurse - Northwest Elevation**
SCALE: 1/2" = 1'-0"

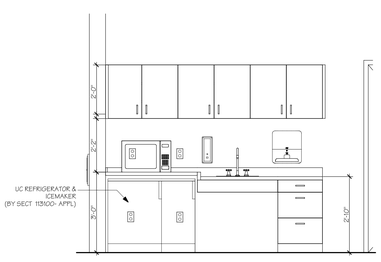


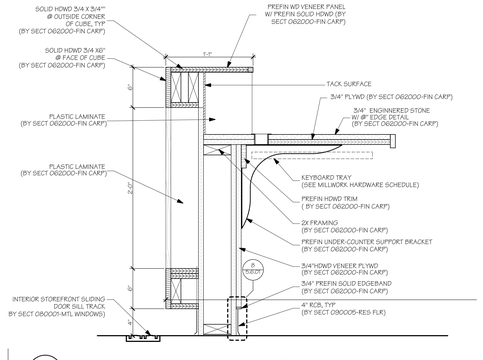
2 **Admin Front Desk - Section at Cubbies**
SCALE: 1 1/2"= 1'-0"



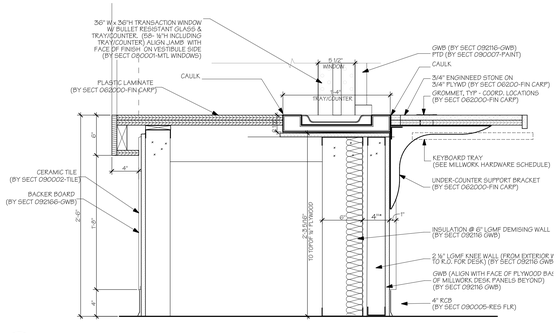
4 **Admin Front Desk - Section at Low Counter**
SCALE: 1 1/2"= 1'-0"

6 **Admin Mailboxes (Elevation) - East**
SCALE: 1/2" = 1'-0"

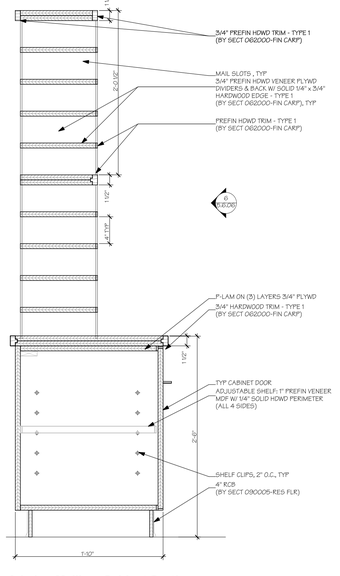




3 **Admin Front Desk - Section at High Counter**
SCALE: 1 1/2"= 1'-0"



5 **Admin Front Desk - Section at Security Window**
SCALE: 1 1/2"= 1'-0"



7 **Admin - Mailbox Cabinet Section**
SCALE: 1 1/2"= 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: TJM

Scale: AS NOTED

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Millwork - Reception Desk & Administration

5.6.06

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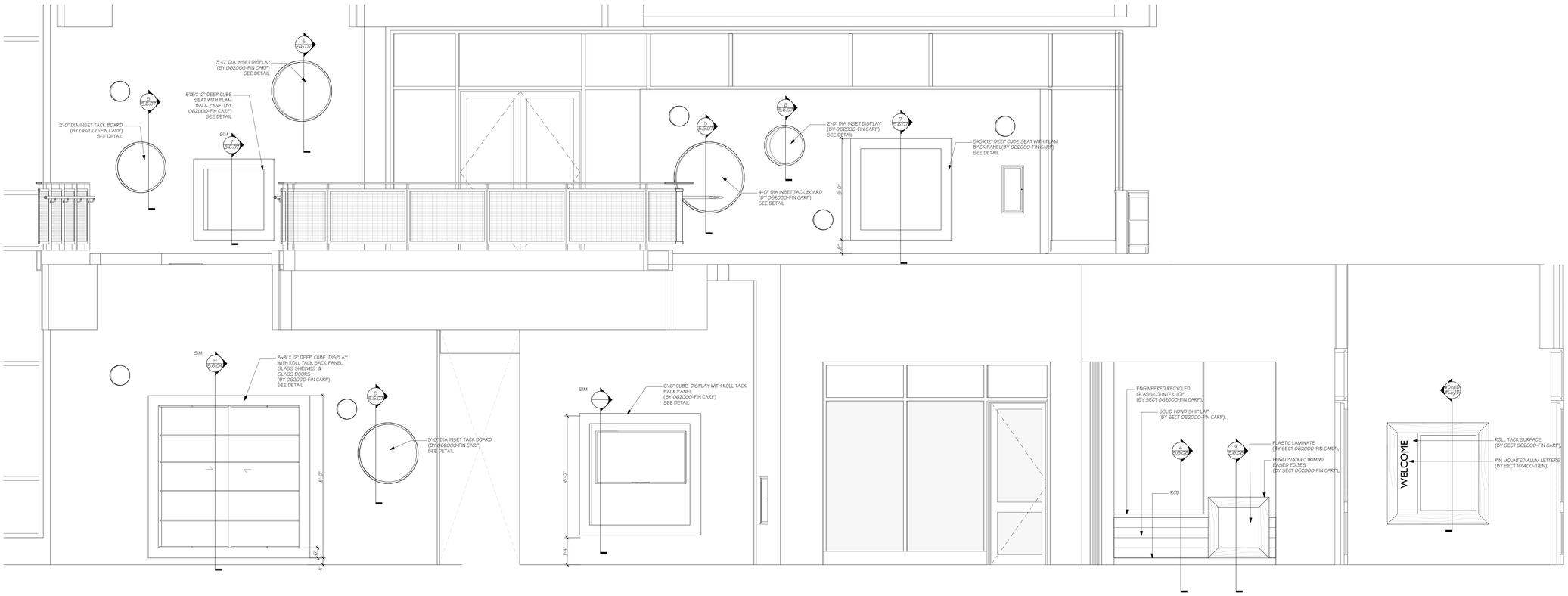
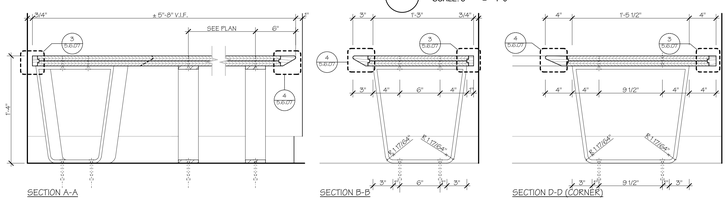


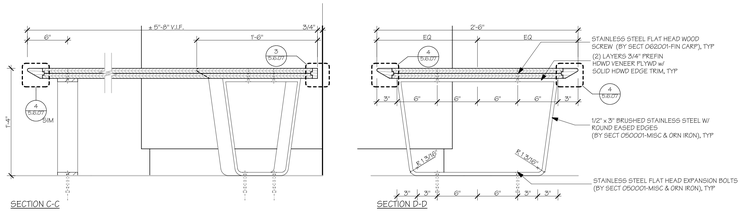
1 Lobby Millwork Elevation
SCALE: 1/2" = 1'-0"



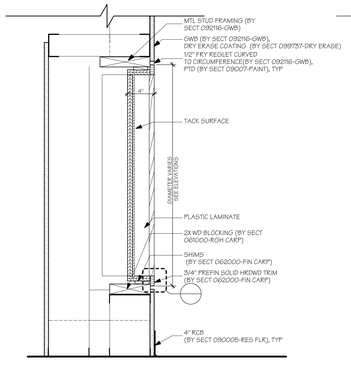
3 Millwork Seat to Leg Joint
SCALE: 3" = 1'-0"

4 Millwork Bench Edgeband
SCALE: 3" = 1'-0"

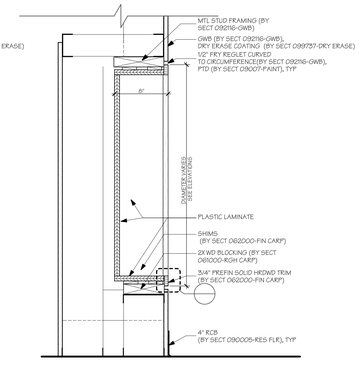




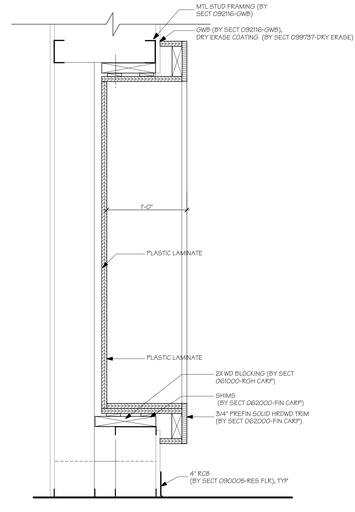
2 Millwork - Waiting Area Bench Sections
SCALE: 1 1/2" = 1'-0"



5 Millwork Lobby Circle Tack
SCALE: 1 1/2" = 1'-0"



6 TYP Lobby - Circle Display Case
SCALE: 1 1/2" = 1'-0"



7 Millwork Lobby Seat
SCALE: 1 1/2" = 1'-0"

NOTE:
- ALL MILLWORK BY SECTION 062000-FIN CARP
- ALL HARDWOOD AND VENEER SHALL BE FACTORY FINISHED NATURAL (NAT) BY SECTION 062000-FIN CARP) UNLESS OTHERWISE NOTED
- ALL FINISHED CARPENTRY LOCATED IN RAMPS, PASSAGES, CORRIDORS, LOBBIES AND VESTIBULES, OR OTHER CIRCULATION SPACES SHALL BE MINIMUM CLASS 'B' FIRE RATED WITH FIRE RETARDANT ROUGH CARPENTRY FRAMING

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KEY PLAN

NORTH ARROW STAMP

Date: 15 MAY 2020

Drawn By: TJM

Scale:

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Millwork - Lobby

5.6.07

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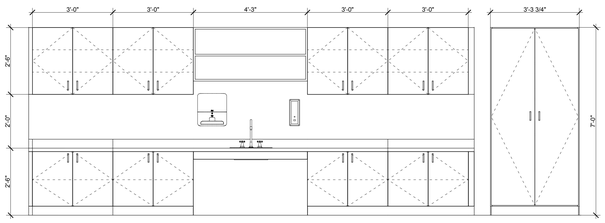
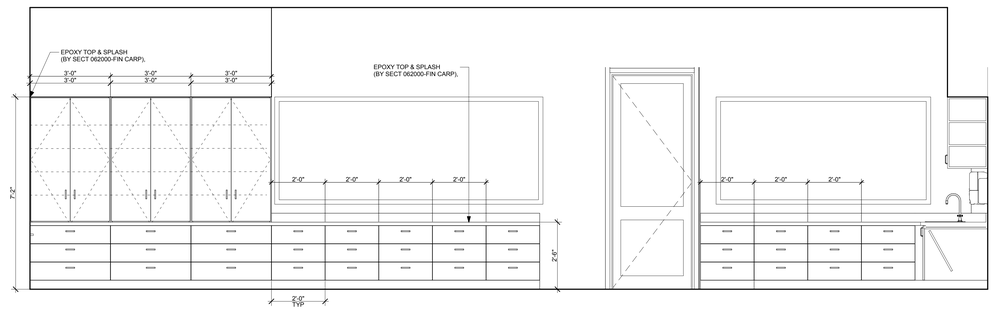
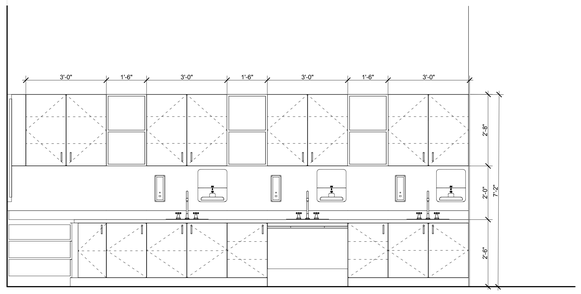


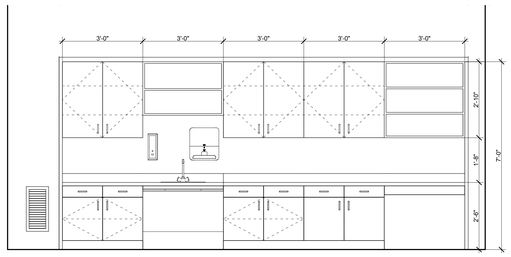
1 **Music Millwork Elevation West**
SCALE: 1/2" = 1'-0"



2 **Art Millwork Elevation South**
SCALE: 1/2" = 1'-0"



3 **Art Millwork Elevation West**
SCALE: 1/2" = 1'-0"



4 **PT Millwork Elevation**
SCALE: 1/2" = 1'-0"

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KEY PLAN

NORTH ARROW *STAMP*

Date: 15 MAY 2020

Drawn By: TJM

Scale: AS NOTED

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Millwork - Art, Music & Misc Interior Millwork

5.6.08

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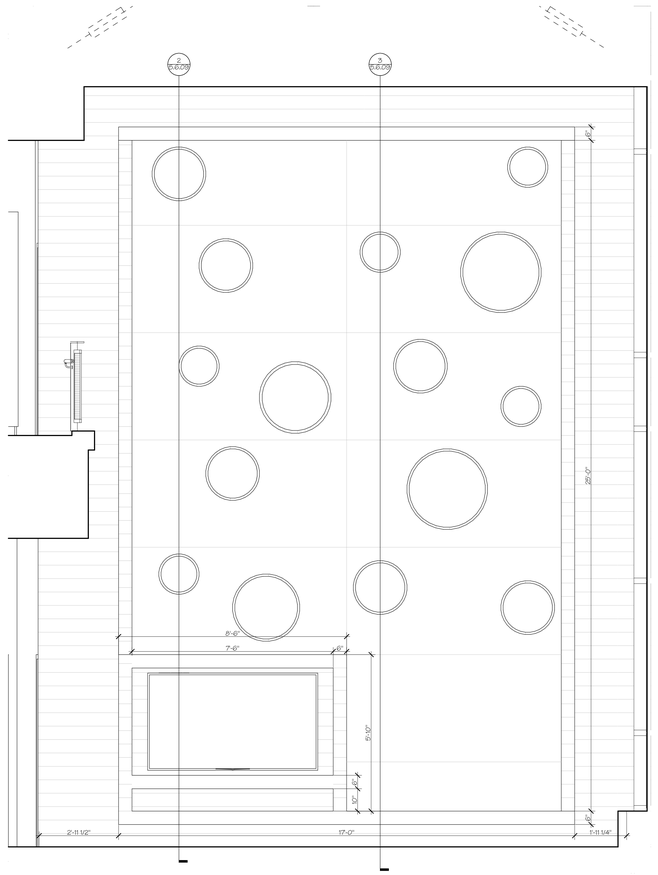
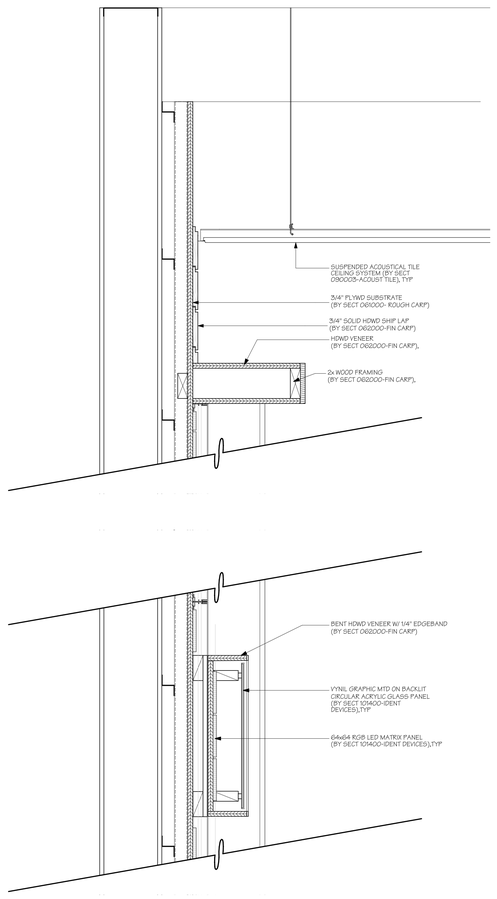
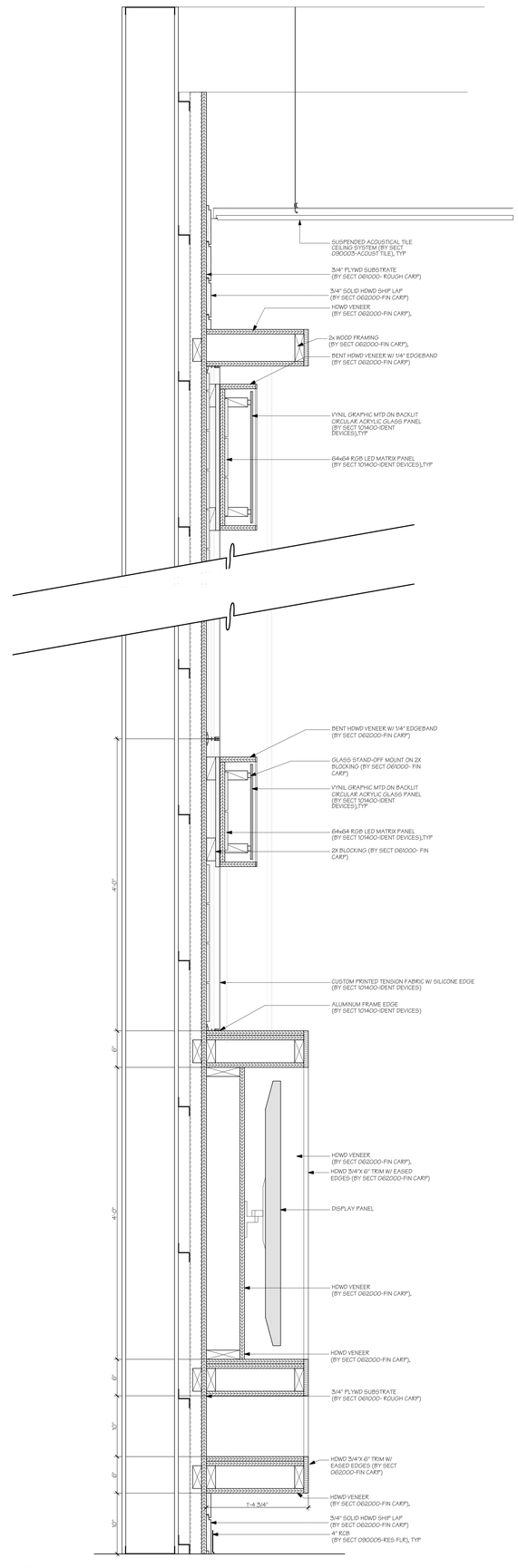




3 **Section at Feature Wall**
SCALE: 1 1/2"= 1'-0"



2 **Section at Feature Wall Display**
SCALE: 1 1/2"= 1'-0"

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KEY PLAN

NORTH ARROW *STAMP*

Date: 15 MAY 2020

Drawn By: CMF

Scale: AS NOTED

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Millwork - Lobby Feature Wall

5.6.09

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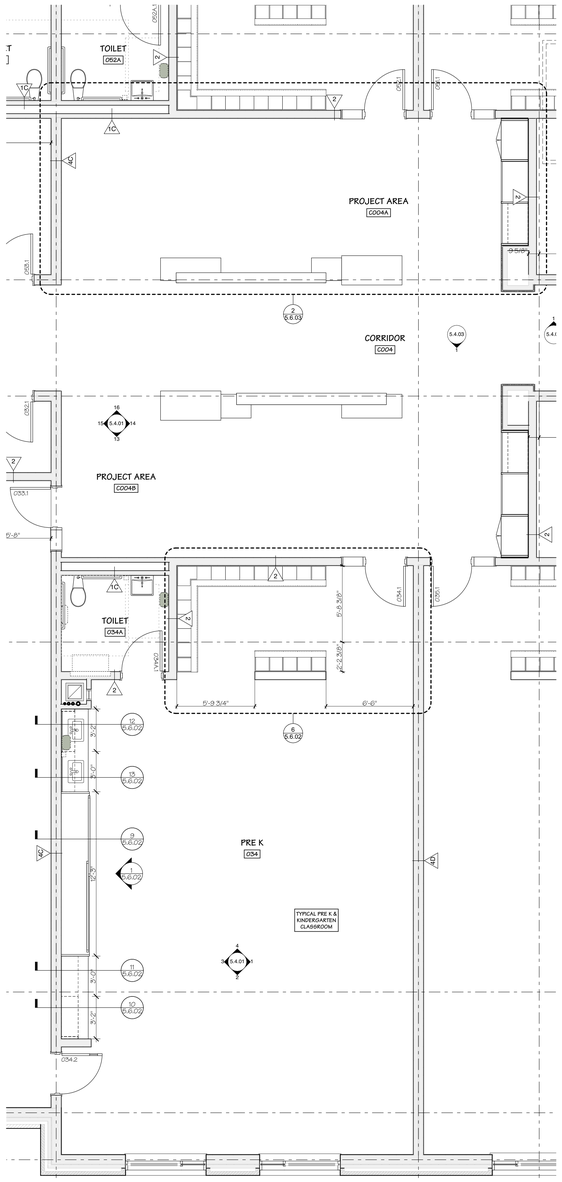
TOILET
052A
PROJECT AREA
C004A
CORRIDOR
C004
PROJECT AREA
C004B
TOILET
054A
PRE K
054
TYPICAL PRE K & KINDERGARTEN CLASSROOM
054.2
C004.1
C003.1
C004.2
C005.1
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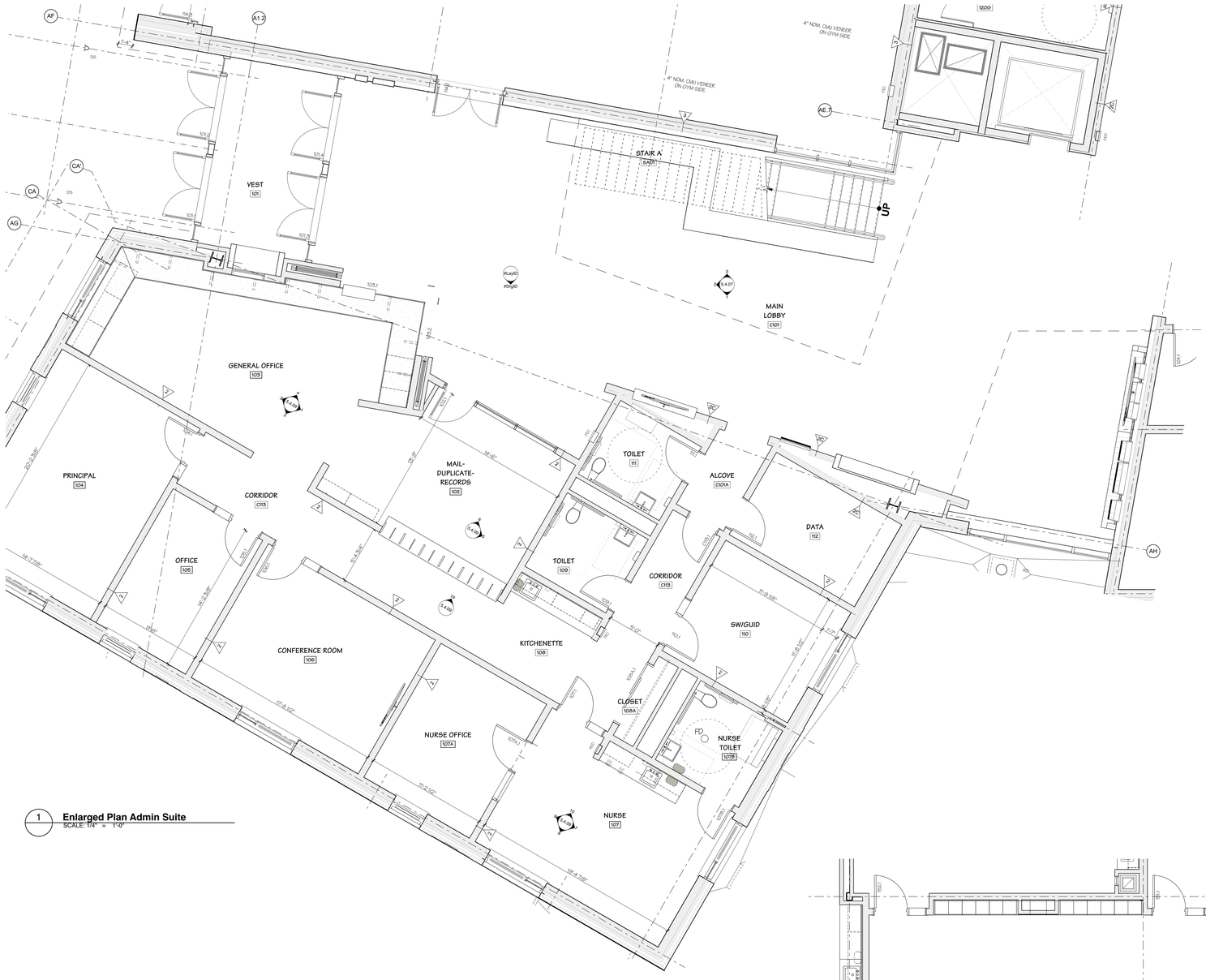
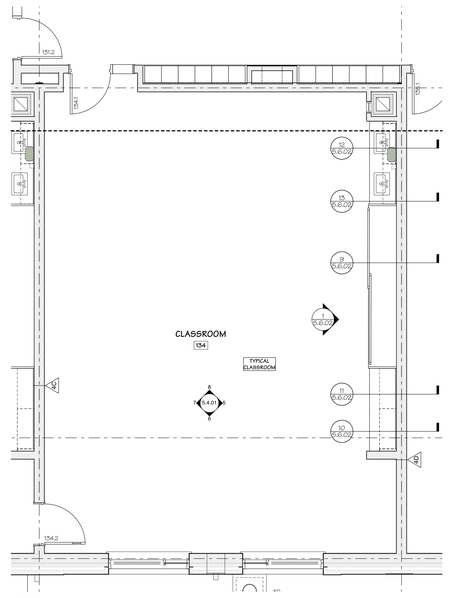
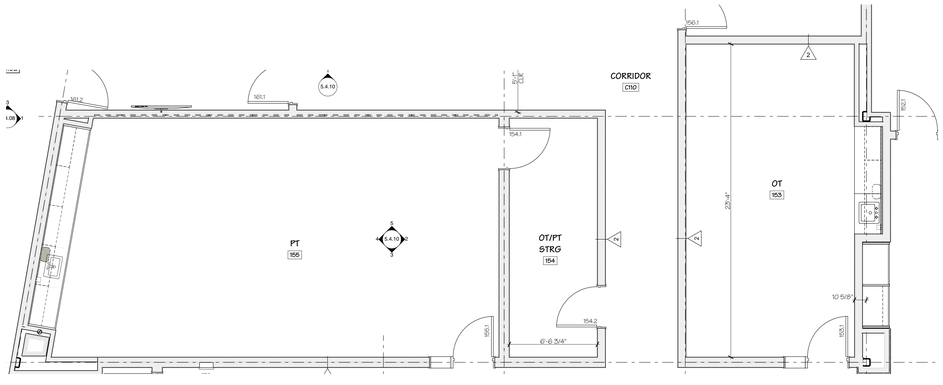


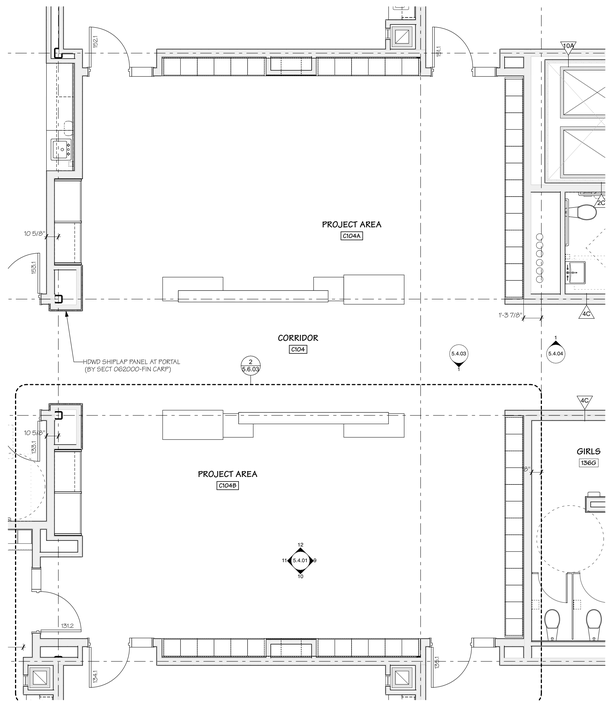
1 **Enlarged Plan Admin Suite**
SCALE: 1/4" = 1'-0"



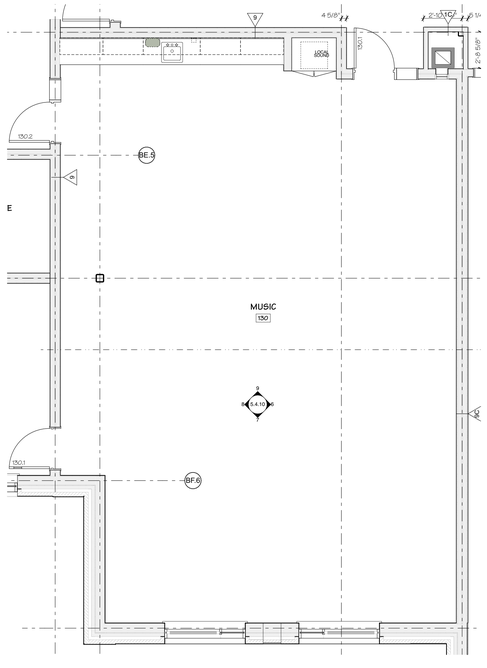
4 TYP **Classroom Storage & Sink - Grades 1 & 2**
SCALE: 1/4" = 1'-0"



2 **PT 155 & PT 153**
SCALE: 1/4" = 1'-0"



3 **Project Area @ Grades 1 & 2**
SCALE: 1/4" = 1'-0"



5 **Music 158**
SCALE: 1/4" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: BS

Scale: 0 4 8

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Enlarged Plans - First Floor

5.8.02

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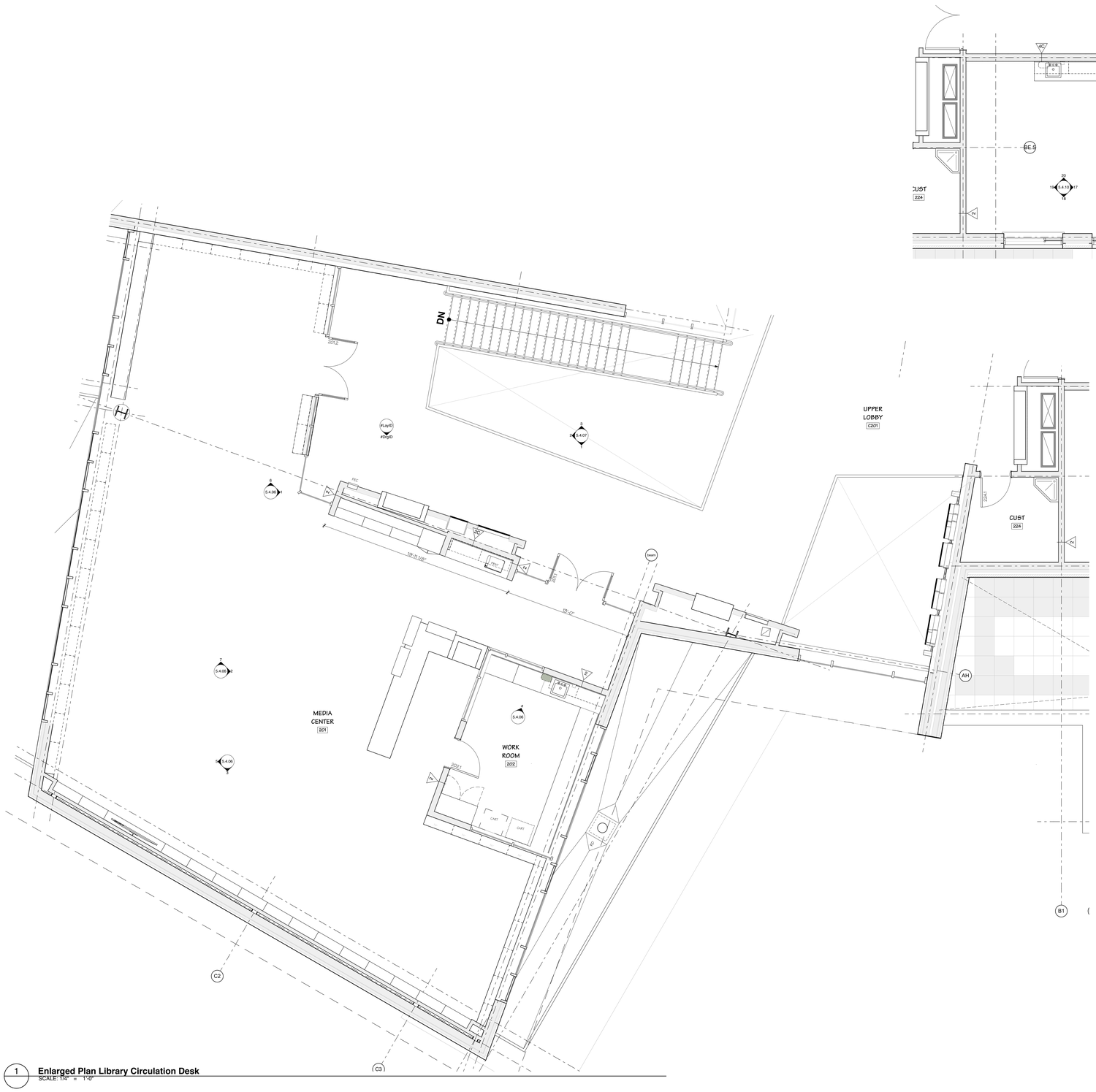

1 **Enlarged Plan Library Circulation Desk**
SCALE: 1/4" = 1'-0"

2 **Teacher Planning / Dining 239 & Art Room 235**
SCALE: 1/4" = 1'-0"

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KEY PLAN

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: BS

Scale: 0 4 8

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Enlarged Plans - Second Floor

5.8.03

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NORTH ARROW

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Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Furniture Plans Ground Floor

5.9.01

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NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: TLD

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Furniture Plans First Floor

5.9.02

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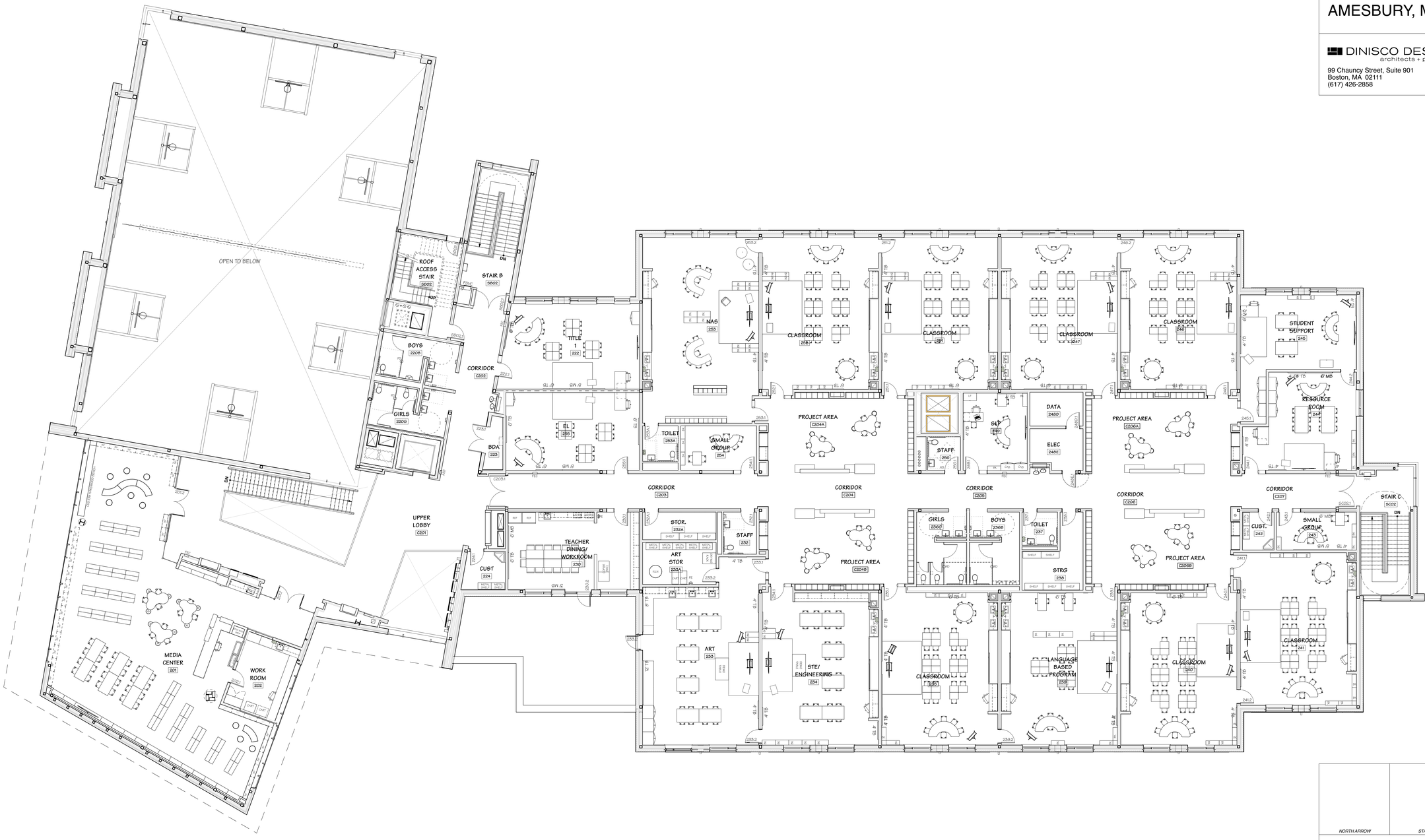

NORTH ARROW | STAMP

Date: 15 MAY 2020

Drawn By: TLD

Scale: 0 8 16

Revisions

Number	Date	Description

60% COST ESTIMATE SET

Furniture Plans Second Floor

5.9.03

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