SCHOOL DISTRICT OF MILTON

HARMONY ELEMENTARY - ADDITION

4243 E. ROTAMER ROAD, JANESVILLE, WI 53546





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SHEET INDEX

GENERAL

000 TITLE SHEET

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C101 LAYOUT PLAN

C102 GRADING PLAN C103 EROSION CONTROL PLAN

L100 LANDSCAPE PLAN

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A200 OVERALL FLOOR PLAN

A201 FLOOR PLANS - AREA A PARTIAL & AREA B

A220 ROOF PLANS

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E200 FLOOR PLANS LIGHTING & POWER E201 FIRE ALARM PLANS

E202 OVERALL FLOOR PLAN ELECTRICAL

E300 DETAILS

PROJECT INFORMATION

PROJECT DATE:

DRAWING SET:

09-13-19 190106-05

PRA PROJECT NUMBER:

CONSTRUCTION **DOCUMENTS**

APPLICABLE CODES AND ZONING

2018 WISCONSIN COMMERCIAL BUILDING CODE (SPS 361-366) 2015 INTERNATIONAL EXISTING BUILDING CODE 2015 INTERNATIONAL BUILDING CODE

EDUCATION OCCUPANCY, GROUP E

ZONING: CITY OF JANESVILLE ORDINANCES

CONSTRUCTION CLASSIFICATION

ADDITION AND ALTERATION TYPE OF CONSTRUCTION, UNPROTECTED, TYPE IIB - NON-SPRINKLERED

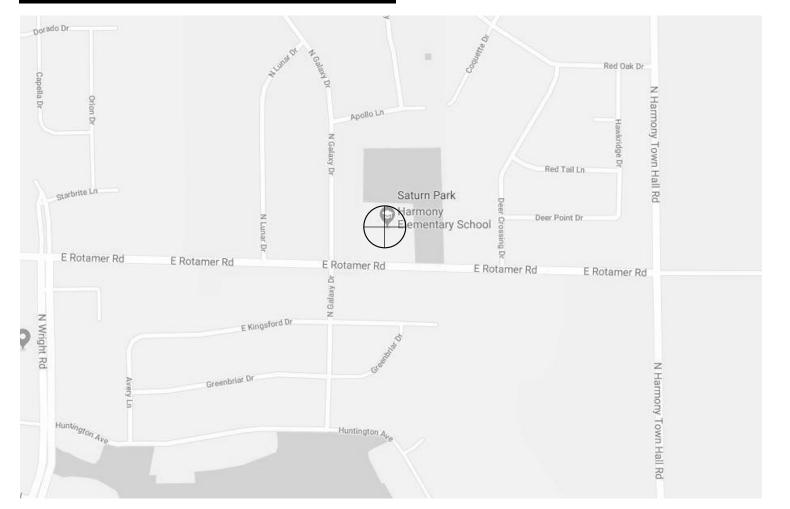
BUILDING AREA

OVERALL FOOTPRINT	44,191 SF
<u>EXISTING</u>	
FIRST FLOOR	38,045 SF
EXISTING TOTAL	38,045 SF
<u>ADDITIONS</u>	
FIRST FLOOR	6,159 SF

BUILDING TOTAL 44,204 SF

ALTERATIONS FIRST FLOOR 61 SF

PROJECT LOCATION



PROJECT TEAM

CONSTRUCTION MANAGER JP Cullen & Sons Inc.

(UNDER SEPARATE CONTRACT) TEL(608) 754-6601

CIVIL Point of Beginning

TEL(715) 344-9999

STRUCTURAL

raSmith Inc. TEL(262) 317-3334

PLUMBING

Muermann Engineering LLC

TEL(920) 894-7800

MECHANICAL

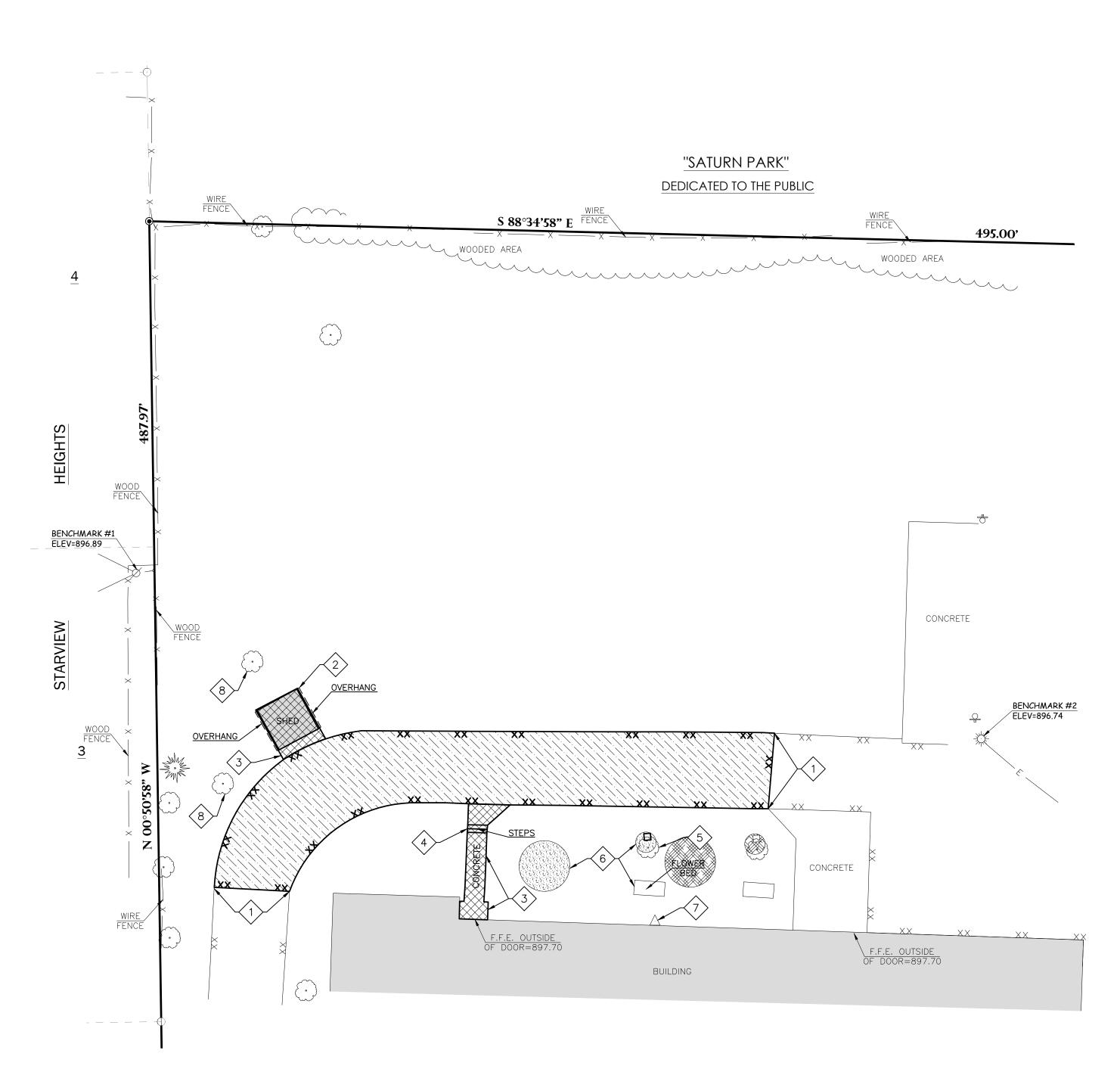
Fredericksen Engineering Inc.

TEL(262) 243-9090

ELECTRICAL

Muermann Engineering LLC

TEL(920) 894-7800



- CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
 ALL DEMOLITION MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER EXCEPT FOR THOSE ITEMS NOTED TO BE SALVAGED, WHICH SHOULD BE TURNED OVER TO THE OWNER.
- 3. INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES FOR PERIMETER PROTECTION PRIOR TO THE
- START OF DEMOLITION/CONSTRUCTION, IN ACCORDANCE WITH THE LOCAL AND STATE GOVERNING AUTHORITIES. 4. ALL BIDDERS PLANNING ON SUBMITTING A BID SHALL VISIT THE SITE AND REVIEW THE EXISTING CONDITIONS
- PRIOR TO THE BID DATE. 5. COORDINATE WITH THE OWNER AND LOCAL UTILITY COMPANIES TO LOCATE ANY EXISTING UTILITIES ON
- SITE PRIOR TO THE START OF WORK.
- 6. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR AND INCLUDED IN THE BASE BID
- 7. STRIP TOPSOIL WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE PROJECT MANUAL SPECIFICATIONS. 8. IF STRIPPED TOPSOIL IS STOCKPILED ON SITE, SILT FENCE SHALL BE INSTALLED AROUND THE BASE OF THE STOCKPILE TO PREVENT SEDIMENT TRANSPORT.

KEYNOTES:

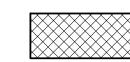
- 1 SAWCUT EXISTING BITUMINOUS PAVEMENT
- 2 EXISTING SHED (TO BE RELOCATED)
- 3 REMOVE EXISTING CONCRETE PAD
- 4 REMOVE EXISTING CONCRETE STEPS
- FELOCATE EXISTING TREE (COORDINATE WITH SCHOOL DISTRICT)
- RELOCATE EXISTING LANDSCAPING/PLANTING (COORDINATE WITH SCHOOL DISTRICT)
- 7 MAINTAIN EXISTING TELEPHONE BOX
- 8 CLEAR AND GRUB EXISTING TREE

DEMOLITION HATCH PATTERNS:

BITUMINOUS REMOVAL



CONCRETE REMOVAL



CIVIL SHEET INDEX:

- C100 DEMOLITION PLAN
- C101 LAYOUT PLAN
- C102 GRADING PLAN
- C103 EROSION CONTROL PLAN
- L100 LANDSCAPE PLAN

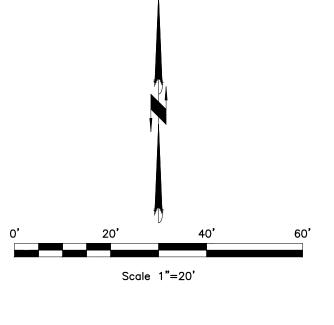
BENCH MARK

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1 60d SPIKE IN POWER POLE, LOCATED APPROXIMATELY 85 FEET NORTH AND 55 FEET WEST OF THE NORTHWEST CORNER OF THE ELEMENTARY SCHOOL BUILDING.

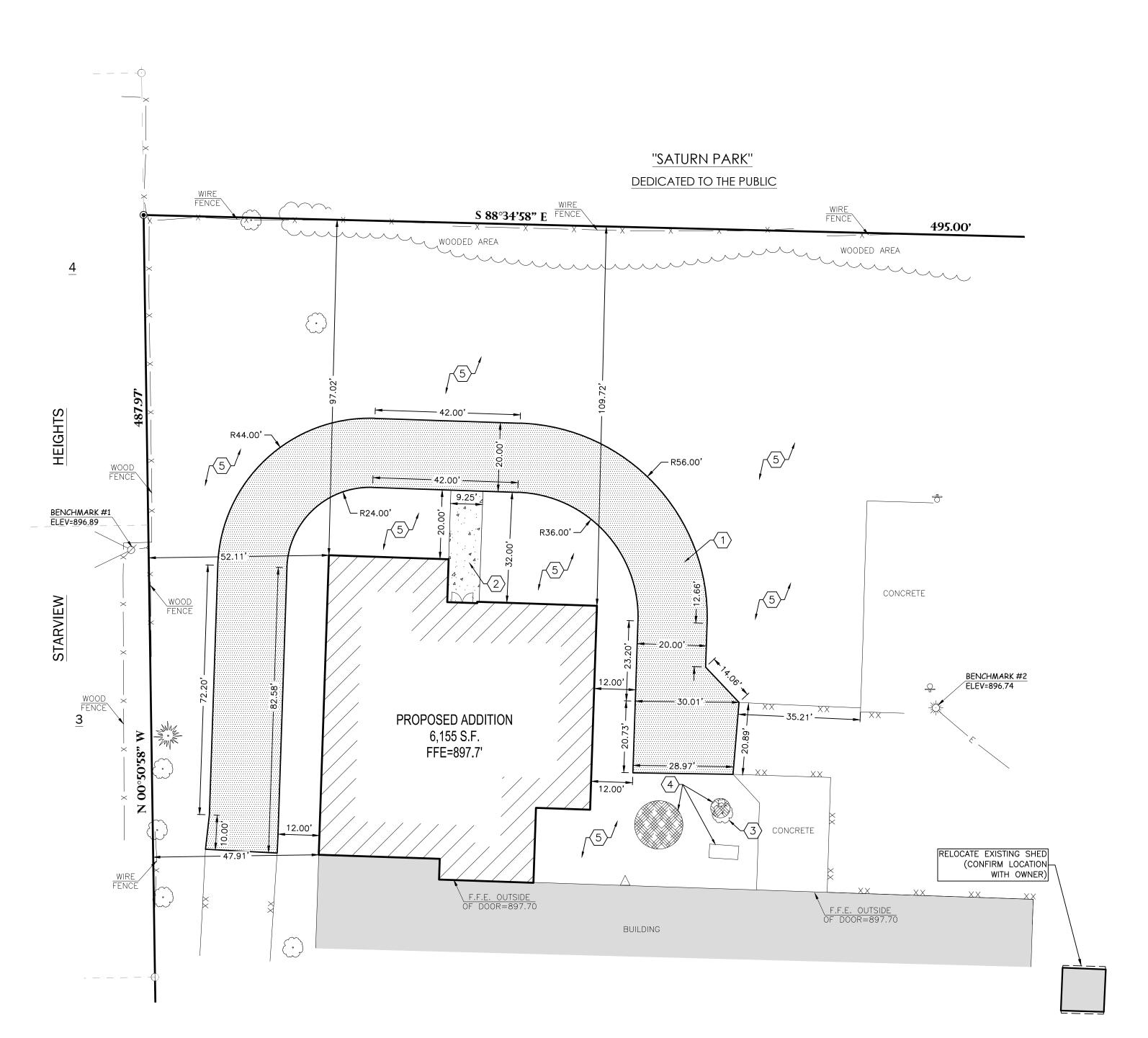
ELEVATION = 896.89BENCHMARK #2

CHISELED SQUARE ON TOP OF CONCRETE LIGHT POLE BASE, LOCATED APPROXIMATELY 50 FEET NORTH AND 25 FEET WEST OF THE NORTHEAST CORNER OF THE ELEMENTARY SCHOOL BUILDING. ELEVATION = 896.74



SCHOOL DISTRICT OF MILTON
HARMONY ELEMENTARY - ADDITION
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ONSTRUCTION DOCUMENTS



WITH THE PROJECT SPECIFICATIONS.

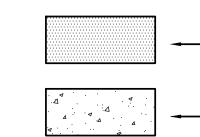
- 1. CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION. 2. GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MÁNAGER. 3. ALL REQUIRED EROSION CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE
- WITH LOCAL MUNICIPAL AND DEPARTMENT OF NATURAL RESOURCES REGULATIONS. 4. SEE SHEET C103 FOR ALL REQUIRED EROSION CONTROL ELEMENTS.
- 5. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR AND INCLUDED IN THE
- BASE BID CONTRACT.
- 6. VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
 7. ALL BIDDERS PLANNING ON SUBMITTING A BID SHALL VISIT THE SITE AND REVIEW THE EXISTING CONDITIONS PRIOR TO THE BID DATE.
- 8. PRIOR TO THE START OF WORK VERIFY WITH THE LOCAL AUTHORITIES THAT ALL REQUIRED PERMITS HAVE
- BEEN ACQUIRED. 9. SIDEWALK JOINTS TO BE AS INDICATED OR AS APPROVED BY CONSTRUCTION MANAGER. 10. ALL SAWCUTS SHALL BE AT AN EXISTING JOINT IN THE CURB AND PAVEMENT. 11. ALL GENERAL LANDSCAPE AREAS SHALL BE SEEDED/FERTILIZED/CRIMP HAY MULCHED IN ACCORDANCE

KEYNOTES:

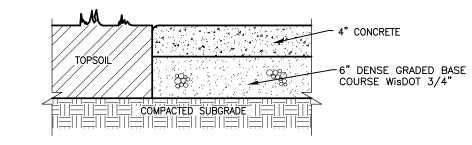
- (1) PROPOSED FIRE LANE
- (2) CONCRETE SIDEWALK
- (3) RELOCATED TREE
- (4) RELOCATED LANDSCAPE AREA
- 5 SEED/MULCH ALL DISTURBED TURF AREAS

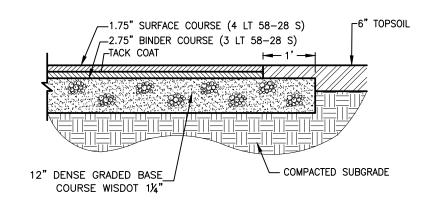
PAVEMENT HATCH PATTERNS:

PROPOSED ASPHALTIC PAVEMENT











HEAVY DUTY
ASPHALT PAVEMENT

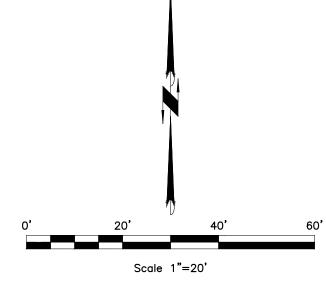


ELEVATION = 896.89

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

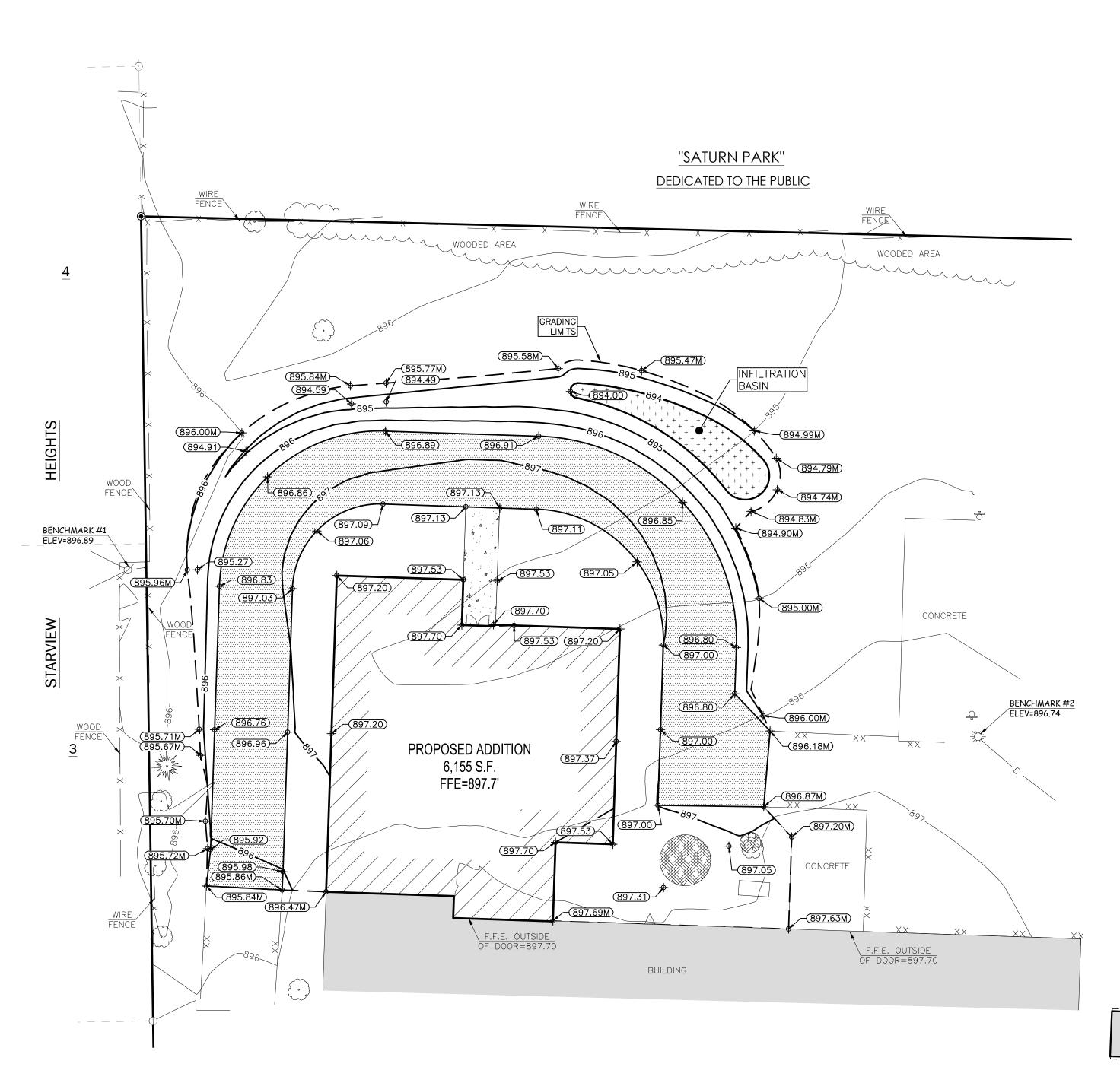
BENCHMARK #1 60d SPIKE IN POWER POLE, LOCATED APPROXIMATELY 85 FEET NORTH AND 55 FEET WEST OF THE NORTHWEST CORNER OF THE ELEMENTARY SCHOOL BUILDING.

BENCHMARK #2 CHISELED SQUARE ON TOP OF CONCRETE LIGHT POLE BASE, LOCATED APPROXIMATELY 50 FEET NORTH AND 25 FEET WEST OF THE NORTHEAST CORNER OF THE ELEMENTARY SCHOOL BUILDING. ELEVATION = 896.74



ONSTRUCTION DOCUMENTS

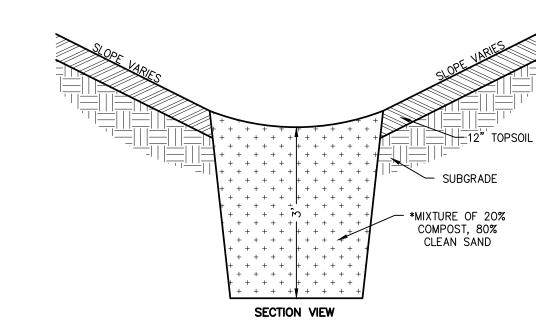
SCHOOL DISTRICT OF MILTON
HARMONY ELEMENTARY - ADDITION
4243 E. ROTAMER ROAD, JANESVILLE, WI 53546



- 1. CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION. 2. THE PROPOSED SITE PLAN FINISH FLOOR ELEVATION OF 897.7 EQUALS THE PROPOSED BUILDING
- ARCHITECTURAL FINISH FLOOR ELEVATION OF 100.00'. 3. GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER. 4. INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES IN ACCORDANCE WITH LOCAL AUTHORITIES
- AND THE DEPARTMENT OF NATURAL RESOURCES REGULATIONS.
- 5. 6" OF TOPSOIL SHALL BE PROVIDED IN ALL GENERAL LAWN AREAS AND 12" SHALL BE PROVIDED IN ALL PLANTING BED AREAS. 6. SEE SHEET C103 FOR ALL REQUIRED EROSION CONTROL ELEMENTS.
- 7. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR AND INCLUDED IN THE BASE BID
- 8. COORDINATE ALL EARTHWORK ACTIVITIES WITH GAS, ELECTRIC, (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE) CABLE AND TELEPHONE CONSTRUCTION AND RESPECTIVE TRADES FOR THE
- INSTALLATION OF SAID UTILITIES. 9. EXCESS TOPSOIL SHALL BE REMOVED FROM SITE, UNLESS OTHERWISE DIRECTED BY THE OWNER. COORDINATE WITH OWNER FOR LOCATION OF STOCKPILE IF THE OWNER CHOOSES TO SALVAGE EXCESS TOPSOIL FOR FUTURE
- USE. SILT FENCE SHALL BE PLACED AROUND STOCKPILE. 10. THE SAND/COMPOST MIXTURE SHALL NOT BE PLACED IN THE INFILTRATION BASIN UNTIL THE SURROUNDING DRAINAGE AREA HAS BEEN FULLY STABILIZED. ALL CONSTRUCTION SITE SEDIMENT SHALL BE REMOVED FROM THE SUBGRADE OF THE INFILTRATION BASIN PRIOR TO PLACEMENT OF THE SAND/COMPOST MIXTURE.
- 11. ALL TESTING AND INSPECTION SHALL BE DONE IN ACCORDANCE WITH SPS 382.21.
- 12. THE LOCAL MUNICIPALITY SHALL OPERATE ALL EXISTING WATER VALVES IF NEEDED. 13. GRADES AT BUILDING EDGE SHALL BE 6" BELOW FINISHED FLOOR ELEVATION EXCEPT AT DOOR WAY ENTRANCES UNLESS OTHERWISE NOTED.

GRADING LEGEND:

EXISTING CONTOUR PROPOSED CONTOUR PROPOSED SPOT ELEVATION PROPOSED MATCH ELEVATION (CONTRACTOR TO VERIFY) PROPOSED BIO-INFILTRATION BASIN



- NOTES:
 COMPOST SHALL MEET THE REQUIREMENTS OF \$100 IN THE WISCONSIN DNR RUNOFF MANAGEMENT STORM WATER TECHNICAL STANDARDS.
 COMPOST SHALL BE FREE OF ROCKS, STUMPS, ROOTS, BRUSH, AND OTHER MATERIAL OVER 1 INCH IN DIAMETER.
 EXCAVATION OF THE 'INFILTRATION BASIN' SHALL BE DELAYED AS LONG AS IS PRACTICABLE DURING CONSTRUCTION TO MINIMIZE SEDIMENTATION.
 THE CONTRACTOR SHALL NOT COMPACT THE SOILS WITHIN THE 'INFILTRATION BASIN' AS INDICATED ON THE PLAN, AS THIS MAY IMPACT THE INFILTRATION PERFORMANCE OF THE SOILS. UPON COMPLETION OF GRADING THESE AREAS, A PROTECTIVE FENCE SHALL BE PLACED AROUND THE PERIMETER TO MINIMIZE CONSTRUCTION TRAFFIC.

INFILTRATION BASIN



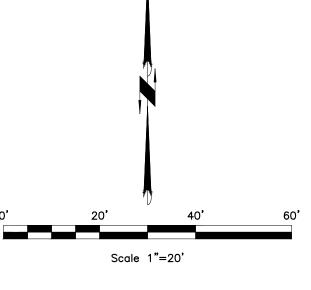
BENCH MARK

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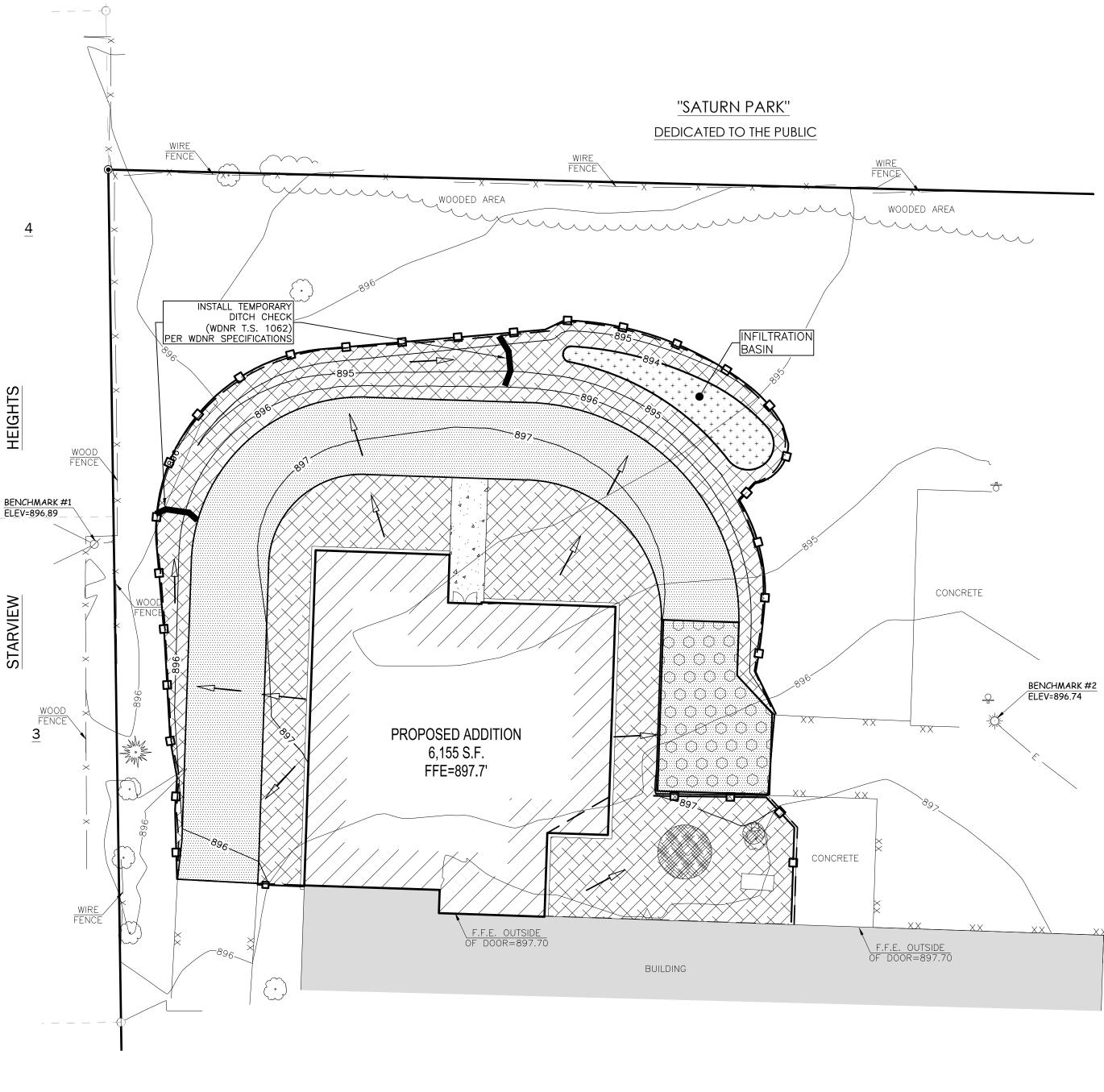
ELEVATION = 896.89

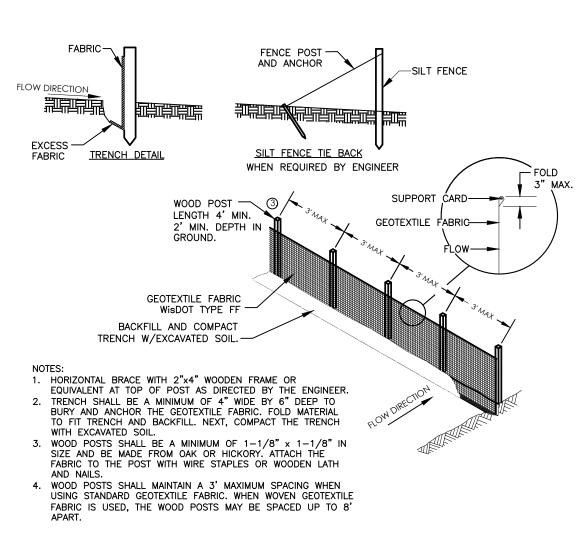
BENCHMARK #2 CHISELED SQUARE ON TOP OF CONCRETE LIGHT POLE BASE, LOCATED APPROXIMATELY 50 FEET NORTH AND 25 FEET WEST OF THE NORTHEAST CORNER OF THE ELEMENTARY SCHOOL BUILDING. ELEVATION = 896.74



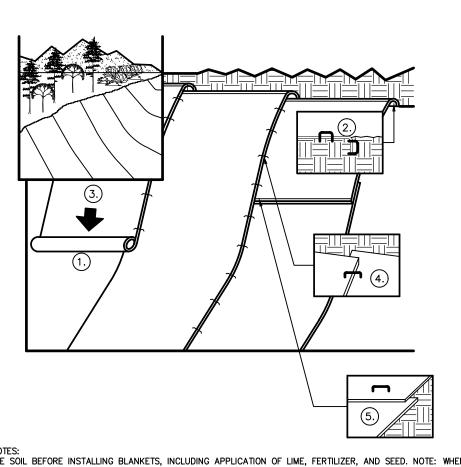
ONSTRUCTION DOCUMENTS

SCHOOL DISTRICT OF MILTON
HARMONY ELEMENTARY - ADDITION
4243 E. ROTAMER ROAD, JANESVILLE, WI 53546





SILT FENCE-



GENERAL NOTES:

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL—O—SEED DO NOT SEED PREPARED AREA. CELL—O—SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

3. ROLL THE BLANKETS DOWN THE SLOPE IN THE DIRECTION OF THE WATER FLOW.

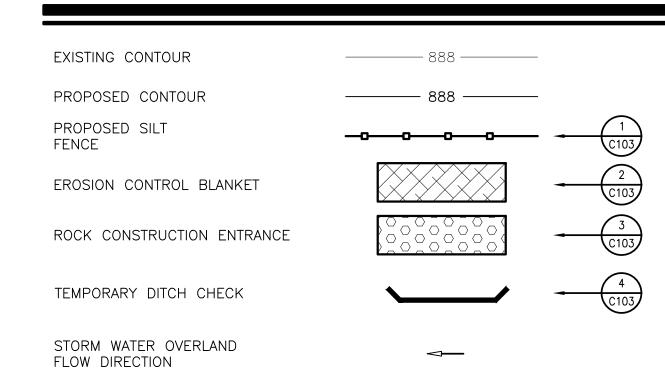
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAP APPROXIMATELY 1" APART

EROSION CONTROL BLANKETS

GENERAL NOTES:

- 1. CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLTION/CONSTRUCTION. 2. NOTIFY THE LOCAL MUNICIPALITY AT LEAST 2 WORKING DAYS PRIOR TO THE START OF SOIL DISTURBING ACTIVITIES.
- 3. INSTALL ALL TEMPORARY EROSION CONTROL ELEMENTS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
- 4. ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE AS TO MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
- 5. CRUSHED ROCK DRIVES FOR SEDIMENT TRACKING UTILIZING 3" CRUSHED ROCK SHALL BE MAINTAINED AT ALL CONSTRUCTION ENTRANCES TO THE SITE. THE ROCK DRIVE SHALL BE A MINIMUM OF 12" THICK AND BE A MINIMUM OF 50 FEET IN LENGTH BY THE WIDTH OF THE DRIVEWAY. 6. OFF SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE NEXT WORK DAY. ALL OFF SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES, INCLUDING
- SOIL TRACKED BY CONSTRUCTION TRAFFIC, SHALL AT A MINIMUM BE CLEANED BY THE END OF EACH WORK DAY. EXCESSIVE AMOUNTS OF SEDIMENT OR OTHER DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED BY THE END OF EACH WORK DAY. EXCESSIVE AMOUNTS OF SEDIMENT OR OTHER DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED IMMEDIATELY. FINE SEDIMENT ACCUMULATIONS SHALL BE CLEANED FROM ADJACENT STREETS BY THE USE OF MECHANICAL OR MANUAL SWEEPING OPERATIONS ONCE A WEEK AT A MINIMUM AND BEFORE IMMINENT RAIN EVENTS.
- 7. DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREAS, INCLUDING SOIL STOCKPILES, THAT ARE LEFT INACTIVE FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING/MULCHING OR OTHER APPROVED METHODS.
- 8. WASTE MATERIAL THAT IS GENERATED ON THE CONSTRUCTION SITE SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO RUN INTO RECEIVING WATERS.
- 9. EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF EACH WORK DAY.
- 10. INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND AFTER ANY RAINFALL OF 0.5" OR MORE. MAKE NEEDED REPAIRS AND DOCUMENT ALL ACTIVITIES AS PER THE REQUIREMENTS OF THE NOTICE OF INTENT SUBMITTED BY THE PROJECT CIVIL ENGINEER.
- 11. ALL TEMPORARY EROSION CONTROL ELEMENTS SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF VEGETATION IS ESTABLISHED AND THEN BE REMOVED AS PART OF THE BASE BID.
- 12. IF SEDIMENT LADEN WATER NEEDS TO BE REMOVED FROM THE SITE, FILTER BAGS OR SCREENING SHALL BE USED IN ACCORDANCE WITH THE WI DNR TECHNICAL STANDARDS 1061 TO PREVENT THE DISCHARGE OF SEDIMENT TO THE MAXIMUM
- EXTENT PRACTICABLE. 13. IF BARE SOIL IS EXPOSED DURING THE WINTER MONTHS, STABILIZATION BY MULCHING OR ANIONIC POLYACRYLAMIDE SHALL OCCUR PRIOR TO SNOW OR FROZEN GROUND.
- 14. SILT FENCE SHALL BE INSTALLED AROUND THE TOPSOIL STOCKPILE. 15. SILT FENCE SHALL BE INSTALLED AROUND THE INFILTRATION BASIN IMMEDIATELY FOLLOWING INSTALLATION OF THE COMPOST/SAND MIX TO PROTECT IT FROM SILT CONTAMINATION.
- 16. THE COMPOST/SAND MIX SHALL NOT BE PLACED IN THE INFILTRATION BASIN UNTIL THE SURROUNDING DRAINAGE AREA HAS BEEN FULLY STABILIZED. ALL CONSTRUCTION SITE SEDIMENT SHALL BE REMOVED FROM THE SUBGRADE OF THE INFILTRATION
- BASIN PRIOR TO PLACEMENT OF THE COMPOST/SAND MIX. 17. THE CONTRACTOR SHALL PERFORM INSPECTIONS AND MONITORING OF EROSION CONTROL PRACTICES IN ACCORDANCE WITH THE WI DNR "CONSTRUCTION SITE INSPECTION REPORT" FORM 3400-187. THIS FORM CAN BE FOUND IN THE CONSTRUCTION SPECIFICATIONS.

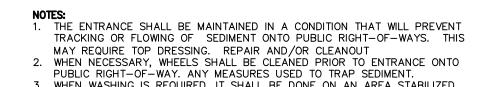
EROSION CONTROL LEGEND:



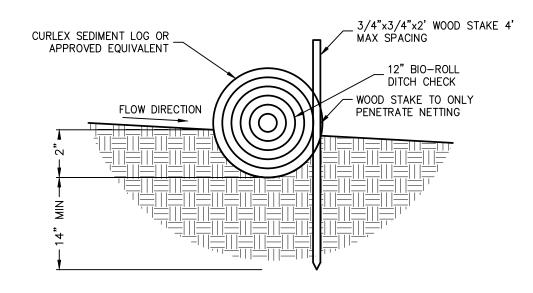
EROSION CONTROL SEQUENCING

- INSTALL PERIMETER EROSION CONTROL BEGIN DEMOLITION
- 3. BEGIN ROUGH GRADING AND UTILITY INSTALLATION
 4. DURING GRADING ACTIVITIES EXISTING GRASS AND VEGETATION, TO BE
- REMOVED, SHALL REMAIN IN PLACE FOR AS LONG AS POSSIBLE, TO AVOID SEDIMENT TRANSPORT. 5. TEMPORARY STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND
- DISTURBING CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
- 6. FINAL STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND DISTURBING ACTIVITIES CEASE AND FINAL GRADE HAS BEEN REACHED ON ANY PORTION OF THE SITE.
- 7. IF DISTURBED AREAS MUST BE LEFT OVER WINTER, AN ANIONIC POLYACRYLAMIDE SHALL BE APPLIED TO ALL DISTURBED AREAS PRIOR TO GROUND FREEZE. SEE SPECIFICATIONS FOR DETAILS.

SUPPLY WATER TO WASH WHEELS -IF NECESSARY DIVERSION RIDGE



- 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



1. USE "WDNR T.S. 1063" TEMPORARY DITCH CHECK AND INSTALL ACCORDING TO CURRENT WINK SPECIFICATIONS.

2. INSPECT DITCH CHECK FOR DEFICIENCIES PRIOR TO FORECASTED RAIN EVENTS, DAILY DURING EXTENDED RAIN EVENTS, AFTER RAIN EVENTS, AND AT 1—WEEK INTERVALS.

3. TURN ENDS OF DITCH CHECK UPSLOPE TO PREVENT WATER FROM FLOWING AROUND END.

4. REMOVE SEDIMENT BEHIND DITCH CHECK BEFORE SEDIMENT LEVEL REACHES THE HALFWAY POINT BETWEEN THE GROUND SURFACE AND TOP OF THE DITCH CHECK.

TEMPORARY DITCH CHECK ROCK CONSTRUCTION ENTRANCE-

BENCH MARK

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

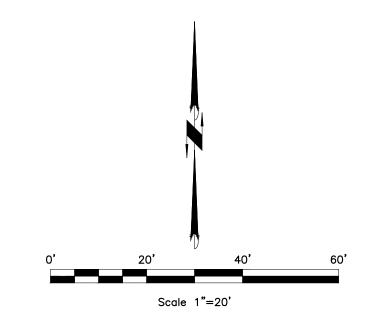
BENCHMARK #1 60d SPIKE IN POWER POLE, LOCATED APPROXIMATELY 85 FEET NORTH AND 55 FEET WEST OF THE NORTHWEST CORNER OF THE

ELEMENTARY SCHOOL BUILDING.

ELEVATION = 896.74

ELEVATION = 896.89BENCHMARK #2

CHISELED SQUARE ON TOP OF CONCRETE LIGHT POLE BASE, LOCATED APPROXIMATELY 50 FEET NORTH AND 25 FEET WEST OF THE NORTHEAST CORNER OF THE ELEMENTARY SCHOOL BUILDING.



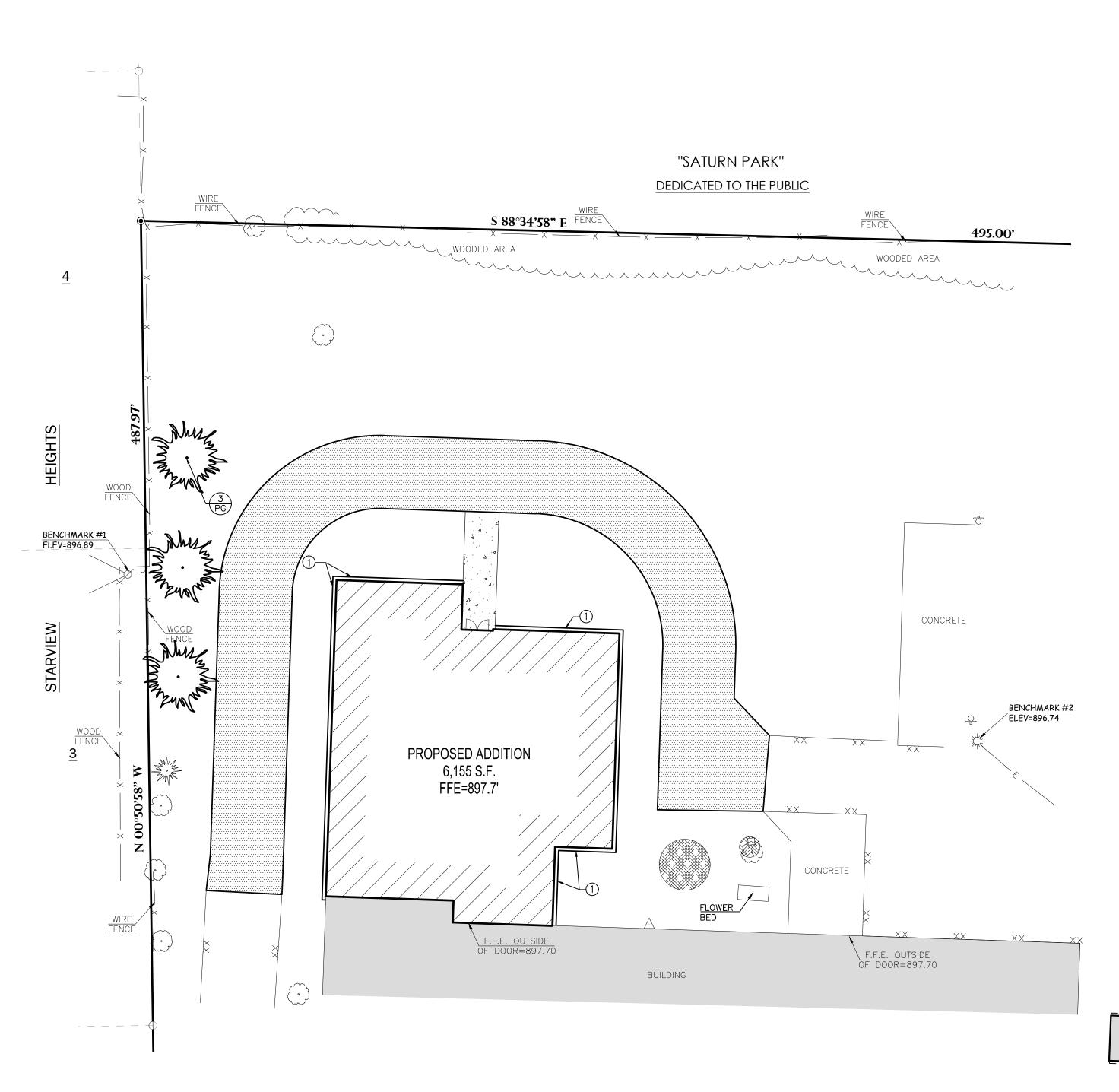
NSTRUCTION DOCUMENTS

ADDITION

ELEMENTARY

SCHOOL D HARMONY

9 F



- 1. CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
- 2. 6" OF TOPSOIL SHALL BE PROVIDED IN ALL GENERAL LANDSCAPE AREAS. LANDSCAPE CONTRACTOR SHALL
- VERIFY THAT SPECIFIED PLANTING SOIL DEPTH IS PRESENT PRIOR TO PLANTING.

 3. ALL PLANT MATERIALS LISTED SHALL MEET THE STANDARDS OF THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION FOR THE SIZES GIVEN.

 4. ALL TREES SHALL BE STAKED WITH A MINIMUM OF THREE STAKES.
- 5. ALL TREES IN THE TURF AREA SHALL HAVE A 4' DIAMETER CIRCLE OF 4" DEPTH SHREDDED HARDWOOD
- 6. COORDINATE ALL LANDSCAPE WORK WITH GAS, ELECTRIC, (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE) CABLE AND TELEPHONE CONSTRUCTION AND RESPECTIVE TRADES FOR THE INSTALLATION OF SAID UTILITIES.

LANDSCAPE REQUIREMENTS:

PAVED AREA LANDSCAPING: PROVIDE LANDSCAPE PLANTINGS EQUAL TO 5% OF THE PAVED SURFACE AREA.

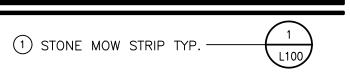
2,870 S.F. PAVED AREA * 5% = 144 POINTS REQUIRED

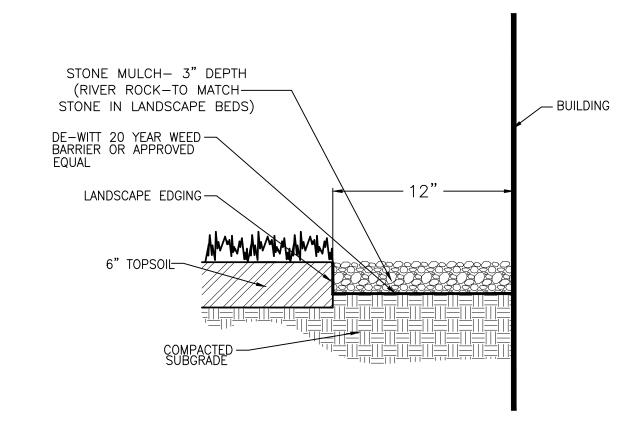
PROPOSED: 180 POINTS (3 EVERGREEN TREES * 60 PTS EACH)

PLANTING SCHEDULE:

EVERGREEI SYMBOLS	N TREES BOTANICAL NAME	COMMON NAME	INSTALLATIO SIZE	N SIZE AT MATURITY	QUANTITY
PG	PICEA GLAUCA 'DE	NSATA' BLACK HILLS SPRUCE	5'H.	25'H X 15'W	3

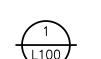
KEYNOTES:





NOTES: *INSTALL WEED BARRIER FABRIC PER MANUFACTURER'S INSTRUCTIONS.

STONE MOWSTRIP



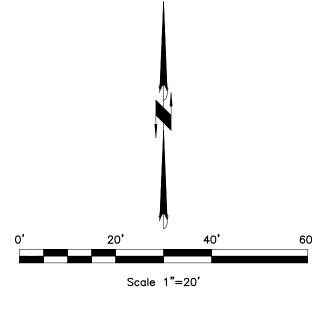
BENCH MARK

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1 60d SPIKE IN POWER POLE, LOCATED APPROXIMATELY 85 FEET NORTH AND 55 FEET WEST OF THE NORTHWEST CORNER OF THE ELEMENTARY SCHOOL BUILDING.

ELEVATION = 896.89BENCHMARK #2

CHISELED SQUARE ON TOP OF CONCRETE LIGHT POLE BASE, LOCATED APPROXIMATELY 50 FEET NORTH AND 25 FEET WEST OF THE NORTHEAST CORNER OF THE ELEMENTARY SCHOOL BUILDING. ELEVATION = 896.74



ONSTRUCTION DOCUMENTS

SCHOOL DISTRICT OF MILTON
HARMONY ELEMENTARY - ADDITION
4243 E. ROTAMER ROAD, JANESVILLE, WI 53546

OCCUPANT LOAD WORKSHEET ROOM OR SPACE ACCOUNTED FOR DENSITY CALCULATED ACTUAL COMBINED IN OTHER SPACES NON OCCUPIED SPACE 307 SF GROSS EDUCATIONAL - SHOPS - VOCATIONAL 951 SF NON OCCUPIED SPACE 61 SF GROSS ALCOVE NON OCCUPIED SPACE EDUCATIONAL - CLASSROOM CLASSROOM EDUCATIONAL - CLASSROOM CLASSROOM CLASSROOM EDUCATIONAL - CLASSROOM 859 SF FLEX SPACE EDUCATIONAL - CLASSROOM 413 SF EDUCATIONAL - SHOPS - VOCATIONAL 1,016 SF KINDERGARTEN ACCESSORY STORAGE AREAS, 186 SF STOR MECHANICAL EQUIPMENT ROOM NON OCCUPIED SPACE GIRLS TLT NON OCCUPIED SPACE 153 SF GROSS BOYS TLT 139 SF GROSS NON OCCUPIED SPACE GROSS NON OCCUPIED SPACE 48 SF NON OCCUPIED SPACE 81 SF GROSS

BUILDING OCCUPANT LOAD GENERAL NOTES:

A. "NET AREA DEDUCT" COLUMN SHOWS AREA DEDUCTIONS BASED ON FLOOR AREA OCCUPIED BY CASEWORK.

B. "OCCUPANT LOAD BY ACTUAL NUMBER" COLUMN SHOWS MAXIMUM CALCULATED OCCUPANCY LIMITS PER IBC 1004.1.1 OR OCCUPANCIES SET BY OWNER DEFINED CURRICULUM PER NOTE 2. C. "OCCUPANT LOAD BY COMBINATION" COLUMN SHOWS TOTAL POSSIBLE OCCUPANTS EXITING THROUGH SPACES AND CORRIDORS ALONG PRIMARY EXIT PATH FOR LIFE SAFETY EGRESS, INCLUDING OCCUPANTS FROM ADJACENT ROOMS. D. "OCCUPANTS ACCOUNTED FOR IN OTHER SPACES" COLUMN DENOTES ROOMS THAT ARE CONSIDERED UNOCCUPIED ACCESSORY SPACES. IF 'YES', OCCUPANTS ARE ACCOUNTED FOR IN OTHER AREAS. SEE NOTE 1.

BUILDING OCCUPANT LOAD WORKSHEET NOTES:

1. UNOCCUPIED ACCESSORY AREA PER 2015 IBC SECTION 202 DEFINITIONS FOR "FLOOR AREA, NET".

				EGRESS WID	TH WORKSHEE	T					
	ROOM OR SPACE			CALCULATED OCCUPANT LOAD				OTH	IER EGRESS COMP	ONENTS	
NUMBER	NAME	OCCUPANCY	BY AREA (IBC 1004.1.1)	MAX BY AGGREGATE WIDTH	WIDTH FACTOR	REQUIRED WIDTH	PROVIDED WIDTH	WIDTH FACTOR	REQUIRED WIDTH	PROVIDED WIDTH	NOTES
FIRST FLOOR	}										
034	CORR	NON OCCUPIED SPACE	175	335	0.3	52.5"	0"	0.2	35"	67"	-
038	ART	EDUCATIONAL - SHOPS - VOCATIONAL	25	168	0.3	7.5"	0"	0.2	5"	33.5"	-
052A	CHANGING	NON OCCUPIED SPACE	0	168	0.3	0"	0"	0.2	0"	33.5"	-
101	ALCOVE	NON OCCUPIED SPACE	0	520	0.3	0"	0"	0.2	0"	104"	-
104	CLASSROOM	EDUCATIONAL - CLASSROOM	43	168	0.3	12.9"	0"	0.2	8.6"	33.5"	-
105	CLASSROOM	EDUCATIONAL - CLASSROOM	43	168	0.3	12.9"	0"	0.2	8.6"	33.5"	-
107	CLASSROOM	EDUCATIONAL - CLASSROOM	43	168	0.3	12.9"	0"	0.2	8.6"	33.5"	-
108	FLEX SPACE	EDUCATIONAL - CLASSROOM	25	168	0.3	7.5"	0"	0.2	5"	33.5"	-
109	KINDERGARTEN	EDUCATIONAL - SHOPS - VOCATIONAL	21	168	0.3	6.3"	0"	0.2	4.2"	33.5"	-
109A	STOR	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	1	335	0.3	0.3"	0"	0.2	0.2"	67"	-
C100	CORRIDOR	NON OCCUPIED SPACE	175	335	0.3	52.5"	0"	0.2	35"	67"	-
T102	GIRLS TLT	NON OCCUPIED SPACE	0	168	0.3	0"	0"	0.2	0"	33.5"	-
T103	BOYS TLT	NON OCCUPIED SPACE	0	168	0.3	0"	0"	0.2	0"	33.5"	-
T109	TLT	NON OCCUPIED SPACE	0	168	0.3	0"	0"	0.2	0"	33.5"	-
V106	VEST	NON OCCUPIED SPACE	175	335	0.3	52.5"	0"	0.2	35"	67"	-
TOTAL			726			217.8"					

EGRESS WIDTH GENERAL NOTES:

A. A 36" DOOR WILL PROVIDE A NOMINAL MINIMUM CLEAR OPENING OF 33.5" AS DEFINED BY IBC SECTION 1008.1.1 B. A PAIR OF 36" DOORS PROVIDES A NOMINAL MINIMUM CLEAR WIDTH OF 67"

EGRESS WIDTH WORKSHEET NOTES:

SUMMARY OF CODE REVIEW INFORMATION

X ALLOWABLE AREAS CALCULATIONS

X EGRESS WIDTH WORKSHEETS

X FIRE APPARATUS AND FIRE LANE WORKSHEET

X SANITARY FIXTURE DETERMINATION WORKSHEETS CONTROL AREA (N/A) - (NO HAZARDOUS MATERIAL STORED OR USED IN THIS BUILDING)

EXTERIOR WALL OPENING WORKSHEET (N/A)

GRADE PLANE DETERMINATION WORKSHEET (N/A) - GRADE IS LEVEL AT BUILDING PERIMETER AND NO FLOORS ARE LOCATED 50% BELOW GRADE.

DETERMINATION OF NUMBER OF STORIES ABOVE GRADE PLANE (N/A) - EDUCATION OCCUPANCIES ARE 2 STORIES ABOVE GRADE PLANE.

LATERAL SYSTEMS AND CONNECTION WORKSHEET - SEE STRUCTURAL DRAWINGS AND CALCULATIONS. STRUCTURAL DESIGN WORKSHEET - SEE STRUCTURAL DRAWINGS AND CALCULATIONS.

HVAC CALCULATIONS - SEE MECHANICAL DRAWINGS AND CALCULATIONS.

ALLOWABLE AREA CALCULATION:

 $Aa = At + (NS \times If)$ Aa ALLOWABLE AREA PER STORY (SF)
At TABULAR AREA PER STORY (IN ACCORDANCE WITH TABLE 506.2)

NS TABULAR AREA FACTOR NON SPRINKLERED PER STORY (IN ACCORDANCE WITH TABLE 506.2) If AREA FACTOR INCREASE DUE TO FRONTAGE (PERCENT) (IN ACCORDANCE TO SECTION 506.3)

FRONTAGE INCREASE FACTOR CALCULATION: If = $(F/P - 0.25) \times W / 30$ F BUILDING PERIMETER THAT FRONTS A PUBLIC WAY WITH 20'-0" MIN WIDTH P TOTAL PERIMETER OF BUILDING

W WIDTH OF PUBLIC WAY OR OPEN SPACE (506.2.1)

NS = 14,500 (ALLOWABLE AREA = 22,475 SF)

F = 266' (0.55 = [266/332 - 0.25]x30/30)

BUILDING B - 36,988 SF GROUP E EXISTING BUILDING

(14,500+[14,500x0.55]) = 22,475 SF)

REQUIRED PLUMBING FIXTURES

OMEN	REQUIRED		EXISTING TO REMAIN	PROPOSED	TOTAL	NOTES
.C.	1 PER 50	4	11	3	14	3
AVS	1 PER 50	4	9	2	11	3
EN	REQUIRED		EXISTING TO REMAIN	PROPOSED	TOTAL	NOTES
.C.	1 PER 50	4	7	2	9	3,4
RINALS	-		6	2	8	5,6
NVS	1 PER 50	4	9	3	12	3,4
	REQUIRED		EXISTING TO REMAIN	PROPOSED	TOTAL	NOTES
RINKING DUNTAINS	1 PER 100	4	3	6	9	7

1. REFER TO IBC TABLE 2902.1 FOR MINIMUM NUMBER OF REQUIRED FIXTURES. 2. NUMBER OF FIXTURES BASED ON ACTUAL OCCUPANT LOAD OF 305. 153 TOTAL OCCUPANTS EACH GENDER. TOTALS BASED ON MAXIMUM ENROLLMENT NUMBERS. 3. (3) SINGLE USER EXISTING TO REMAIN WATER CLOSETS AND LAVATORIES COUNTED TOWARD WOMEN AND (3) TOWARD MEN. 4. (1) SINGLE ÙSER PROPOSED WATER CLOSET AND LAVATORY COUNTED TOWARD MEN.

5. URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 67% OF REQUIRED WATER CLOSETS; PER 2009 INTERNATIONAL PLUMBING CODE SECTION 419.2 6. URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 67% OF REQUIRED WATER CLOSETS; PER WISCONSIN ADMINISTRATIVE CODE SPS 362.2902 (1) (A) EXCEPTION 1 IN GROUP E.

LIFE SAFETY LEGEND

2W	2W	2W	
	••••		
2B	2B	2B	
4P	4D	4D	
		- • • •	
1P	1P	1P	
	2B 1B	2B 2B 1B 1B	2B 2B 2B 1B 1B 1B

33.5" / 167

•—---

• - - - -

1023.2

TABLE 1020.1

POINT IN WHICH 2 EXITS BECOME AVAILABLE

EXIT WIDTH / MAXIMUM OCCUPANTS SERVED AT EXIT EXTERIOR EXIT DOOR / EXIT STAIR COMMON PATH OF EGRESS TRAVEL (FEET) BARRIER-FREE ACCESS ROUTE

FIRE EXTINGUISHER/CABINET DRINKING FOUNTAIN EGRESS CORRIDORS

EXISTING OCCUPANT LOAD AND EXIT PATHS/WIDTHS TO REMAIN

2018 WISCONSIN COMMERCIAL BUILDING CODE (SPS 361-366) 2015 INTERNATIONAL EXISTING BUILDING CODE

2015 INTERNATIONAL BUILDING CODE EDUCATION OCCUPANCY, GROUP E

ZONING: CITY OF JANESVILLE ORDINANCES

CONSTRUCTION CLASSIFICATION

ADDITION AND ALTERATION TYPE OF CONSTRUCTION, UNPROTECTED, TYPE IIB - NON-SPRINKLERED

BEARING WALLS: EXTERIOR INTERIOR TABLE 601 NON-BEARING WALLS: TABLE 601 EXTERIOR INTERIOR SEE BELOW TABLE 601 FLOOR CONSTRUCTION TABLE 601 ROOF CONSTRUCTION TABLE 601 ROOF CLASSIFICATION TYPE C 1505.1 FIRE ENCLOSURE

<u>FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS</u> BASED ON FIRE SEPARATION DISTANCE (TABLE 602)

4.115
1 HR.
1 HR.
0 HR.
0 HR.

AUTOMATIC FIRE DETECTION SYSTEM

(STAIRS, ELEVATOR, SHAFTS)

CORRIDOR WALLS

EXIT EGRESS EXIT AISLES SERVING MEP EQUIPMENT:

-DEAD END CORRIDORS (NON-SPRINKLED): 20' MAX.

COMMON PATH OF TRAVEL: 75' MAX. MAXIMUM TRAVEL DISTANCE TO AN EXIT:

200' MAX. FROM THE REMOTEST POINT IN A ROOM

	LIFE SAFETY PLAN NOTES
NOTE#	LIFE SAFETY PLAN NOTE
001	2-HR FIREWALL THAT STOPS AT UNDERSIDE OF ROOF DECK (PER 2015 IBC 706, 706.6 EXCEPTION 3)
002	1-HR FIRE PARTITION WALL (PER 2015 IBC 1020.6 TABLE 1020.1 AND 708.4)
003	10'-0" RATING EXTENSION (PER 2015 IBC SEC 705)
004	4'-0" RATING EXTENSION (PER 2015 IBC SEC 706.5.1)
005	IMAGINARY LOT LINE (PER IBC SEC 705.3)

FIRST FLOOR LIFE SAFETY

3/32" = 1'-0"

CONSTRUCTION DOCUMENTS

SCHOOL D HARMONY

EXISTING ITEM TO REMAIN ----- EXISTING ITEM TO BE REMOVED DEMOLITION PLAN KEYNOTE — — — CONSTRUCTION LIMITS

A. VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE. PORTIONS OF EXISTING CONSTRUCTION MAY HAVE BEEN

C. REMOVE FLOOR FINISHES, INCLUDING SETTING BED IN CERAMIC TILE AREAS, WHERE NEW FLOORING IS INDICATED IN

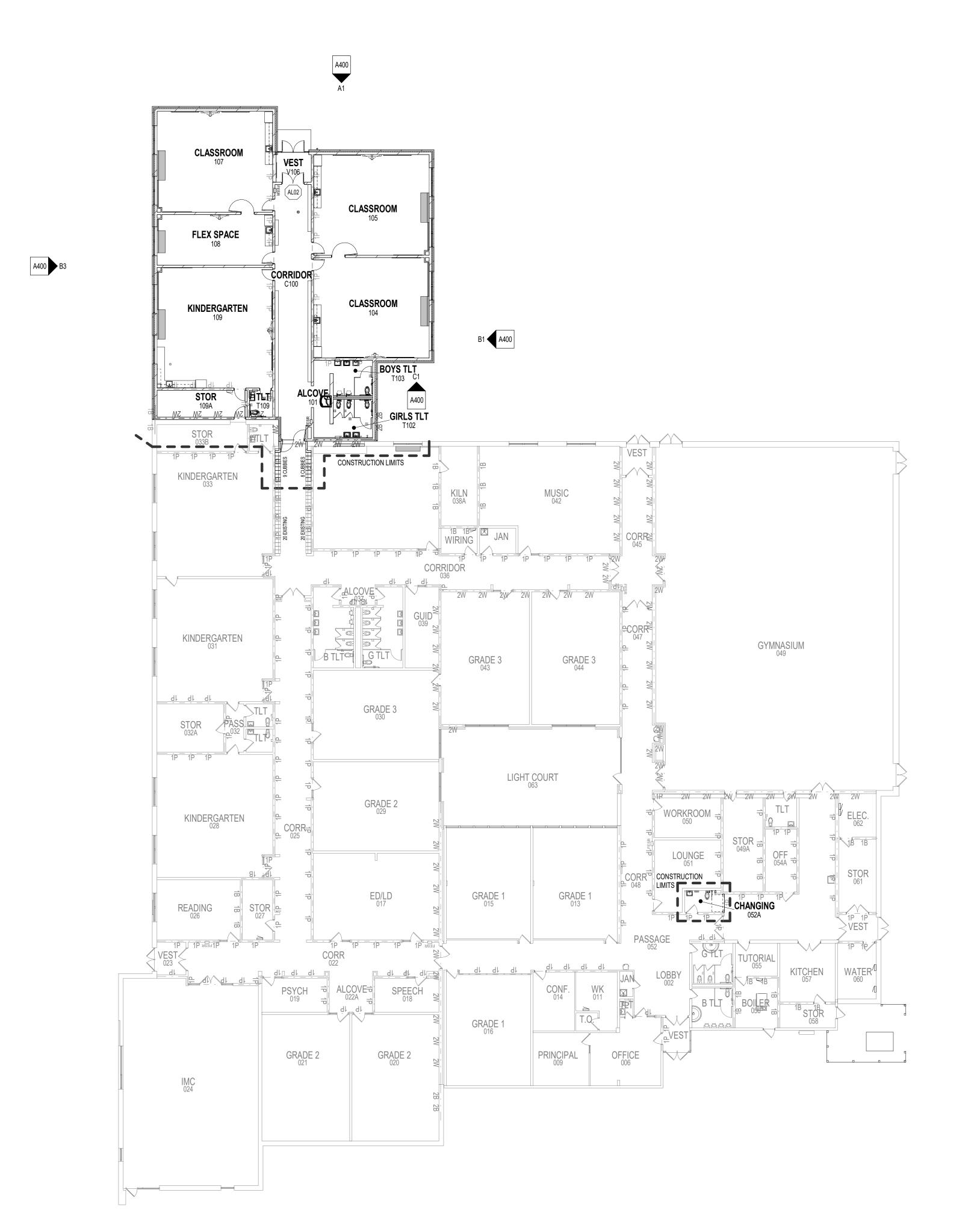
D. REMOVE SUSPENDED CEILINGS AND RELATED HANGERS, OR GYPSUM BOARD/ PLASTER CEILINGS WHERE NEW CEILINGS ARE INDICATED ON REFLECTED CEILING PLAN OR ROOM FINISH SCHEDULE.

F. REMOVE ALL INTERIOR AND WALL MOUNTED ITEMS IN AREAS TO BE REMODELED (REFER TO ROOM FINISH SCHEDULE) INCLUDING BUT NOT LIMITED TO, CASEWORK, EQUIPMENT, SHELVING AND GRAB BARS.

G. REFER TO PLUMBING, HVAC AND ELECTRICAL PLANS FOR ADDITIONAL DEMOLITION ITEMS AND NOTES. COORDINATE

I. MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL SPACES IN THE BUILDING NOT AFFECTED BY THIS WORK. COORDINATE WITH OWNER ANY DISRUPTION IN SERVICES REQUIRED TO PERFORM WORK OR TO MODIFY EXISTING PIPING, DUCTWORK OR ANY ASSOCIATED EQUIPMENT.

SCHOOL DISTRICT OF MILTON HARMONY ELEMENTARY - ADDITION



KEY PLAN

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

CONSTRUCTION DOCUMENTS

SCHOOL DISTRICT OF MILTON
HARMONY ELEMENTARY - ADDITION
4243 E. ROTAMER ROAD, JANESVILLE, WI 53546

E2 FIRST FLOOR PLAN - AREA A

SBD & 8' MBD CLASSROOM CLASSROOM FLEX SPACE CORRIDOR **KINDERGARTEN** CONSTRUCTION LIMITS KINDERGARTEN

FIRST FLOOR PLAN - AREA B

1/8" = 1'-0"

FLOOR PLAN SYMBOLS LEGEND EXISTING WALLS TO REMAIN NEW WALL/PARTITION NEW DOOR EXISTING DOOR TO REMAIN SECTION REFERENCE EXISTING DOOR RECEIVING NEW WORK - REFER TO DOOR SCHEDULE DETAIL REFERENCE EXTERIOR ELEVATION WINDOW TYPE INTERIOR ELEVATION \(\begin{align*} \begin{align*} \beg FLOOR PLAN NOTE FLOOR DRAIN - FLUSH W/ FINISHED FLOOR — — — CONSTRUCTION LIMITS FLOOR CLEAN OUT 1P 1P ONE HOUR RATED FIRE PARTITION SEMI-RECESSED FIRE EXTINGUISHER REFER TO DETAIL E6 / A810 1B 1B ONE HOUR RATED FIRE BARRIER 2B 2B TWO HOUR RATED FIRE BARRIER 2W 2W TWO HOUR RATED FIRE WALL FLOOR PLAN GENERAL NOTES

A. DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED WALL TO FACE OF FINISHED WALL (NOMINAL).

B. VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE. PORTIONS OF EXISTING CONSTRUCTION MAY HAVE BEEN REMOVED BY OWNER. C. MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL SPACES IN THE BUILDING NOT AFFECTED BY THIS WORK.

COORDINATE WITH OWNER ANY DISRUPTION IN SERVICES REQUIRED TO PERFORM WORK OR TO MODIFY EXISTING PIPING, DUCTWORK OR ANY ASSOCIATED EQUIPMENT. D. CONTRACTOR TO VERIFY FLOOR TO FLOOR HEIGHTS

FLOOR PLAN NOTES FLOOR PLAN NOTE 200 FOLD DOWN GRAB BAR 201 CHANGING STATION, BY OWNER 202 TACK STRIPS. MOUNT 6'-0" AFF AND 6" FROM EACH END WALL 203 PATCH AND REPAIR WALL 204 CONCRETE STOOP

EXTERIOR WALL TYPE SCHEDULE ASSEMBLY DESCRIPTION MASONRY CAVITY WALL CONSISTING OF 4" CONCRETE MASONRY UNIT, 1-3/4" AIR SPACE, 3" RIGID INSULATION, SPRAY APPLIED AIR AND VAPOR BARRIER SYSTEM ON 8" CONCRETE MASONRY UNIT BACK-UP WALL WITH ADJUSTABLE (TWO-PIECE) HORIZONTAL MASONRY JOINT REINFORCING @ 16" OC (REFER TO STRUCTURAL DRAWINGS FOR REQUIRED VERTICAL REINFORCING). PROVIDE CAVITY DRAINAGE MATERIAL, FLASHING, CAVITY WEEPS/VENTS @ 24" OC AND MASONRY EXPANSION AND CONTROL JOINTS. COMPARTMENTALIZE THE CAVITY AND PROVIDE CAVITY WEEPS/VENTS AT TOP/BOTTOM OF CAVITY. REFER TO DETAIL B2/A600. MASONRY CAVITY WALL CONSISTING OF 4" STRIATED CONCRETE MASONRY UNIT, 1-3/4" AIR SPACE, 3" RIGID INSULATION, SPRAY APPLIED AIR AND VAPOR BARRIER SYSTEM ON 8" CONCRETE MASONRY UNIT BACK-UP WALL WITH ADJUSTABLE (TWO-PIECE) HORIZONTAL MASONRY JOINT REINFORCING @ 16" OC (REFER TO STRUCTURAL DRAWINGS FOR REQUIRED VERTICAL REINFORCING). PROVIDE CAVITY DRAINAGE MATERIAL, FLASHING, CAVITY WEEPS/VENTS @ 24" OC AND MASONRY EXPANSION AND CONTROL JOINTS. COMPARTMENTALIZE THE CAVITY AND PROVIDE CAVITY WEEPS/VENTS AT TOP/BOTTOM OF CAVITY. REFER TO DETAIL B2/A600.

	INTERIOR PART	TITION SCHEDU	JLE		
MARK	ASSEMBLY DESCRIPTION	FIRE RATING	UL	INSULATION	STC
GG0	3-5/8" STEEL STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD.	-			
HG0	3-5/8" STEEL STUDS @ 16" OC ONE LAYER 5/8" GYPSUM BOARD.	-		FULL WIDTH SOUND	
SG0	4" CONCRETE BLOCK.	-			
SK0	6" CONCRETE BLOCK.	-		-	
SK1	6" CONCRETE BLOCK.	1 HR	U905		
SN0	8" CONCRETE BLOCK.	-		-	
SN1	8" CONCRETE BLOCK.	1 HR	U905	-	
SN2	8" CONCRETE BLOCK.	2 HR	U905	-	
SS0	12" CONCRETE BLOCK.	-			
SS1	12" CONCRETE BLOCK.	1 HR	U905		

GYPSUM BOARD PARTITIONS GENERAL NOTES

A. ALL GYPSUM BOARD PARTITIONS SHALL BE $\langle BG0 \rangle$ UNLESS OTHERWISE NOTED ON FLOOR PLAN.

B. GYPSUM BOARD PARTITION DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED PARTITION TO FACE OF FINISHED PARTITION (NOMINAL).

C. REFER TO GYPSUM BOARD SPECIFICATION FOR LOCATION AND TYPE(S) OF GYPSUM BOARD MATERIAL REQUIRED.

D. PROVIDE FIRE RATED GYPSUM BOARD AT ALL FIRE RATED PARTITIONS.

E. SEAL ALL WALL PENETRATIONS AT PERIMETER AND FIRESTOP ALL FIRE RATED PARTITIONS. F. EXTEND ALL GYPSUM BOARD PARTITIONS FULL HEIGHT TO UNDERSIDE OF STEEL DECK ABOVE. AT METAL DECK CONSTRUCTION ABOVE PROVIDE SLIP JOINT BETWEEN TOP OF PARTITION AND UNDERSIDE OF METAL DECK /

STRUCTURAL STEEL MEMBER ABOVE. REFER TO DETAIL A3 / A810 MASONRY PARTITIONS GENERAL NOTES

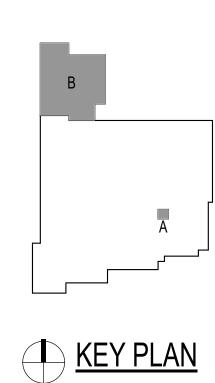
A. MASONRY PARTITIONS INDICATED WITH THE FOLLOWING HATCH PATTERN:

B. ALL MASONRY PARTITIONS SHALL BE 8" CONCRETE BLOCK UNLESS OTHERWISE NOTED OR DIMENSIONED. REFER TO FLOOR PLAN FOR PARTITION THICKNESS.

C. PROVIDE UL RATED CONCRETE BLOCK AT ALL FIRE RATED PARTITIONS.

D. SEAL ALL WALL PENETRATIONS AT PERIMETER AND FIRESTOP ALL RATED PARTITIONS.

E. EXTEND CONCRETE BLOCK PARTITIONS FULL HEIGHT TO UNDERSIDE OF STEEL DECK ABOVE. REFER TO DETAIL A1 / A810 PROVIDE HORIZONTAL MASONRY JOINT REINFORCEMENT AT 16" OC VERTICALLY. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL REINFORCEMENT REQUIREMENTS.



CONSTRUCTION DOCUMENTS

TON ADDITION

HARMONY

A201

ROOF PLAN - AREA B

1/8" = 1'-0"

ROOF PLAN SYMBOLS LEGEND

1/4" / 12" DIRECTION OF STRUCTURAL SLOPE TO DRAIN → 1/4" / 12" DIRECTION OF INSULATION TAPER SLOPE TO DRAIN.

DETAIL REFERENCE

TAPERED INSULATION VALLEY OR RIDGE ROOF DRAIN

TAPERED INSULATION THICKNESS **ROOF PLAN NOTE** — — — CONSTRUCTION LIMITS

ROOF PLAN GENERAL NOTES

A. COORDINATE AND VERIFY ALL ROOF OPENINGS AND PENETRATIONS WITH STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL REQUIREMENTS.

B. PROVIDE WATER TIGHT INTEGRITY AT ALL PENETRATIONS AND EQUIPMENT PER ROOFING MANUFACTURERS STANDARD DETAILS AND REQUIREMENTS FOR WARRANTY AND CURRENT NRCA STANDARDS.

C. PROVIDE POSITIVE ROOF DRAINAGE INCLUDING TAPERED INSULATION LAYOUT. PROVIDE SADDLES AND CRICKETS AT ALL ROOF TOP EQUIPMENT AND PENETRATIONS TO ENSURE POSITIVE DRAINAGE.

D. MINIMUM ALLOWABLE INSULATION TAPER SLOPE SHALL BE 1/4" PER FOOT UNLESS NOTED OTHERWISE

CONSTRUCTION TYPES

CONSTRUCTION DESCRIPTION

C1A 2X2 LAY-IN CEILING PANELS IN EXPOSED GRID SYSTEM SUSPENDED FROM STRUCTURE ABOVE. C1B 2X4 LAY-IN CEILING PANELS IN EXPOSED GRID SYSTEM SUSPENDED FROM STRUCTURE ABOVE.

C2 5/8" GYPSUM BOARD CEILING ON METAL SUSPENSION SYSTEM SUSPENDED FROM STRUCTURE ABOVE. E2 ALUMINUM STOREFRONT SYSTEM WITH INSULATING GLASS.

E3 ALUMINUM ENTRANCE SYSTEM WITH 1/4" TEMPERED INSULATING GLASS. G1 METAL FASCIA SYSTEM: METAL GRAVEL STOP ON 2x WOOD BLOCKING

G1A METAL FASCIA SYSTEM: METAL FASCIA ROOF DRAIN OVERFLOW RELIEF

G4 METAL SCUPPER. SIZE AND PROFILE TO MATCH EXISTING. J1 PRECAST CONCRETE SILL. SEE DETAIL D1/A600 FOR PROFILE.

R1 SINGLE PLY ROOFING SYSTEM: LOOSELY LAID AND BALLASTED EPDM MEMBRANE WITH BALLAST PROTECTIVE MAT ON RIGID INSULATION (MIN=R-30) (ON VAPOR RETARDER) ON 5/8" EXTERIOR SHEATHING ON METAL DECKING.

S1 REINFORCED CONCRETE SLAB ON VAPOR BARRIER ON DRAINAGE FILL.

CONSTRUCTION DOCUMENTS

STOR 049A

LOUNGE

FLOOR PATTERN PLAN - AREA A PARTIAL

CORR 048

B. LOCATE ALL SPRINKLER HEADS, SMOKE DETECTORS, AUDIO SPEAKERS, HEAT SENSORS IN THE CENTER OF CEILING TILE (OR IN THE CENTER OF THE RAISED/RECESSED FIELD OF A PATTERNED TILE).

C. REMOVE EXISTING CEILING SYSTEM WHERE NEW WALLS PENETRATE EXISTING CEILING SYSTEMS TO REMAIN. PATCH TO MATCH EXISTING CEILING SYSTEM TO NEW WALL.

D. CEILING HEIGHTS SHALL BE 9'-0" UNLESS NOTED OTHERWISE ON THE REFLECTED CEILING PLANS. E. ABOVE CEILING WORK TO OCCUR THROUGHOUT EXISTING BUILDING FOR NEW UNIT VENTILATOR PIPING RUNS. REFER TO MECHANICAL DRAWINGS FOR PIPING LOCATIONS.

F. MEP CEILING MOUNTED EQUIPMENT IS SHOWN FOR REFERENCE ONLY. REFER TO MEP DRAWINGS FOR SPECIFIC

SYMBOLS AND LEGENDS. REFLECTED CEILING PLAN NOTES REFLECTED CEILING PLAN NOTE

300 THERAPY SWING. PROVIDE 4" DIAMETER CIRCULAR TRIM AROUND 3" OPENING FOR EYE BOLT

FLOOR PATTERN PLAN - SYMBOLS LEGEND FLOOR PATTERN/GRAIN DIRECTION

→ XX-XX → ACCENT PAINT/SPECIALTY FINISH EXTENTS $\xrightarrow{\times} \xrightarrow{\times}$ FLOORING TRANSITION — — CONSTRUCTION LIMITS

WALL TILE EXTENTS

FLOOR PATTERN PLAN - GENERAL NOTES

A. PRIOR TO FLOORING INSTALLATION, SCHEDULE A PRE-INSTALLATION CONFERENCE ON SITE WITH INTERIOR DESIGNER TO COORDINATE FLOORING LAYOUT.

B. PROVIDE A FLUSH TRANSITION BETWEEN FLOORING MATERIALS OF VARYING HEIGHTS. PROVIDE FEATHERING OF LEVELING COMPOUND OR SUBFLOOR LEVELING STRIPS BY JOHNSONITE AS NECESSARY.

C. PROVIDE A FLUSH TRANSITION BETWEEN FLOORING MATERIALS OF VARYING HEIGHTS. PROVIDE TRANSITION STRIPS AND REDUCERS AS NECESSARY. PRIOR TO FLOORING INSTALLATION, SUBMIT SAMPLES OF PROFILE TO INTERIOR DESIGNER FOR APPROVAL AND COLOR SELECTION.

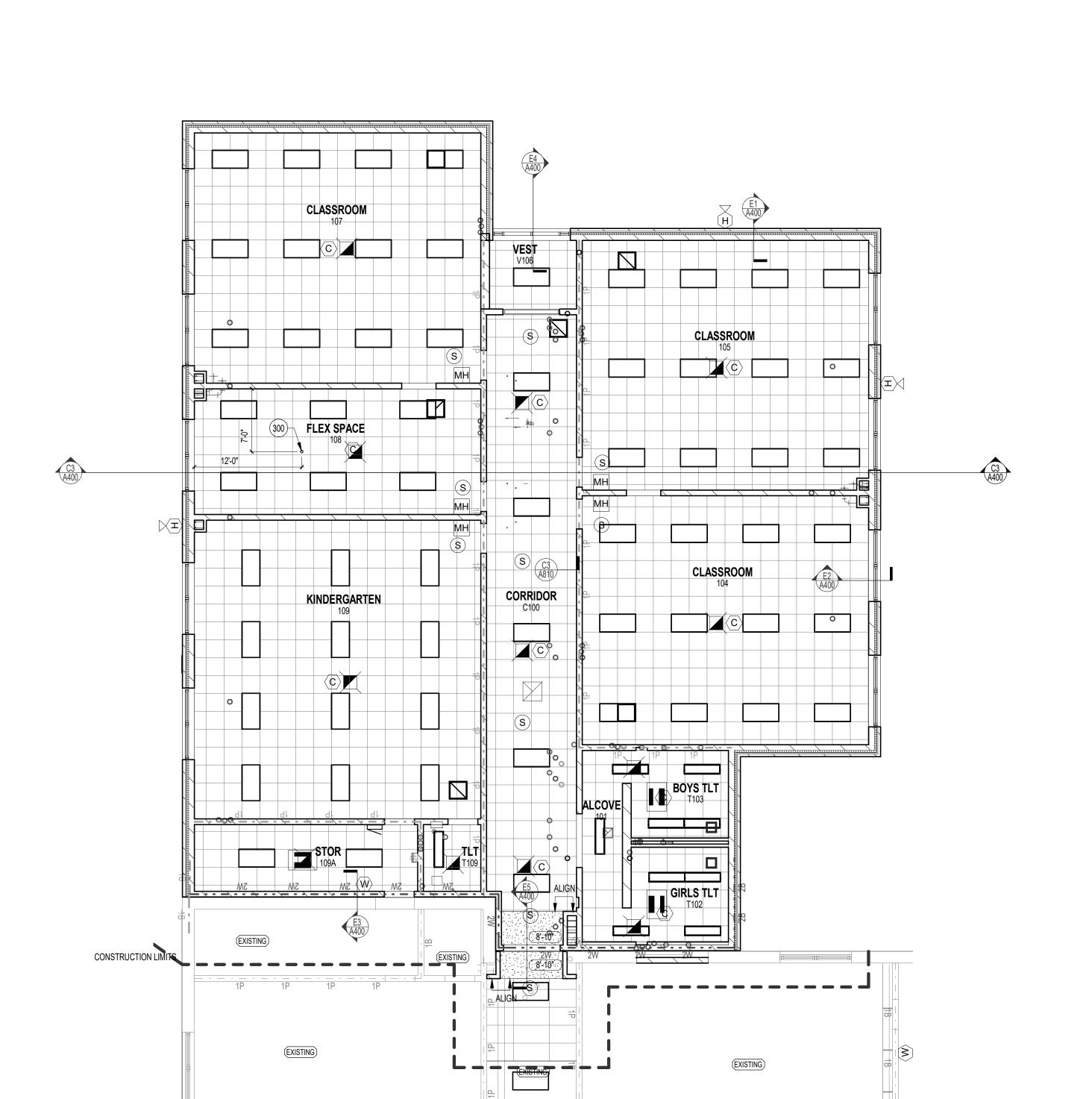
D. CARPET C-1 TO BE INSTALLED IN A NON DIRECTIONAL INSTALLATION PER MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO FLOOR PATTERN PLAN FOR PATTERN INSTALLATION DIRECTION.

E. CARPET VT-1,2,3 TO BE INSTALLED IN A 1/3 OFF SET INSTALLATION PER MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO FLOOR PATTERN PLAN FOR PATTERN INSTALLATION DIRECTION.

F. AT AREAS WHERE TILE IS SCHEDULED TO CONTINUE UP ON TO THE WALL FROM THE FLOOR, GROUT LINES BETWEEN FLOOR AND WALL TILES ARE TO ALIGN, UNLESS OTHERWISE NOTED.

G. PROVIDE RESILIENT BASE WITH A COVE PROFILE AT HARD SURFACE FLOORING AND A STRAIGHT PROFILE AT CARPET. H. PROVIDE GROUT GR-1 PORCELAIN TILE PT-1,2,3 AND GR-2 WITH CERAMIC TILE CT-1,2,3.

I. AT AREAS WHERE FLOORING IS INDICATED TO ALIGN WITH AN ARCHITECTURAL ELEMENT SUCH AS COLUMN OR PILASTER, ETC., EDGE OF FLOORING TO ALIGN WITH EDGE OF FINISHED INSTALLED BASE.

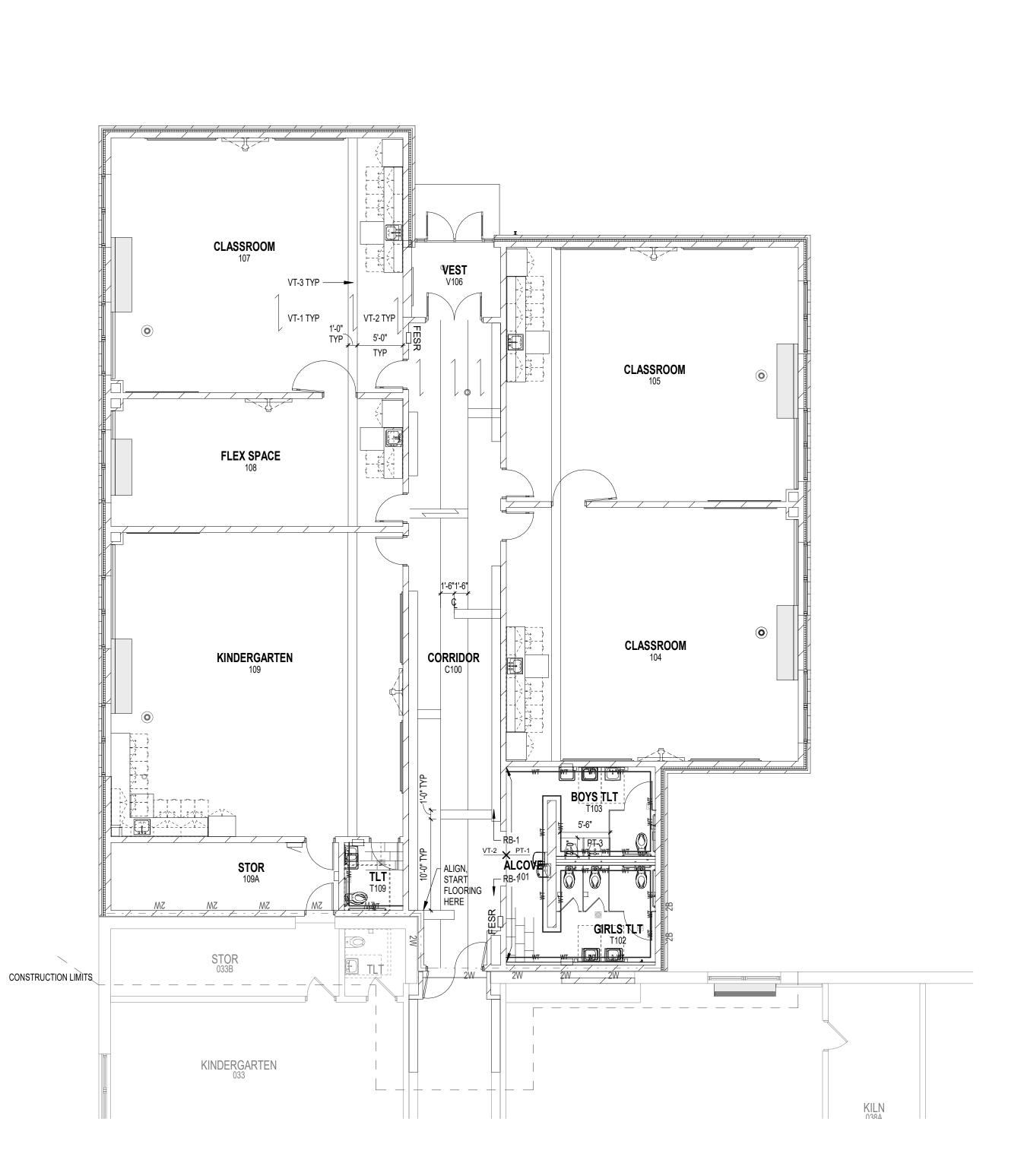


CONSTRUCTION LIMITS

REFLECTED CEILING PLAN - AREA A PARTIAL

1/8" = 1'-0"

dl dl



KEY PLAN

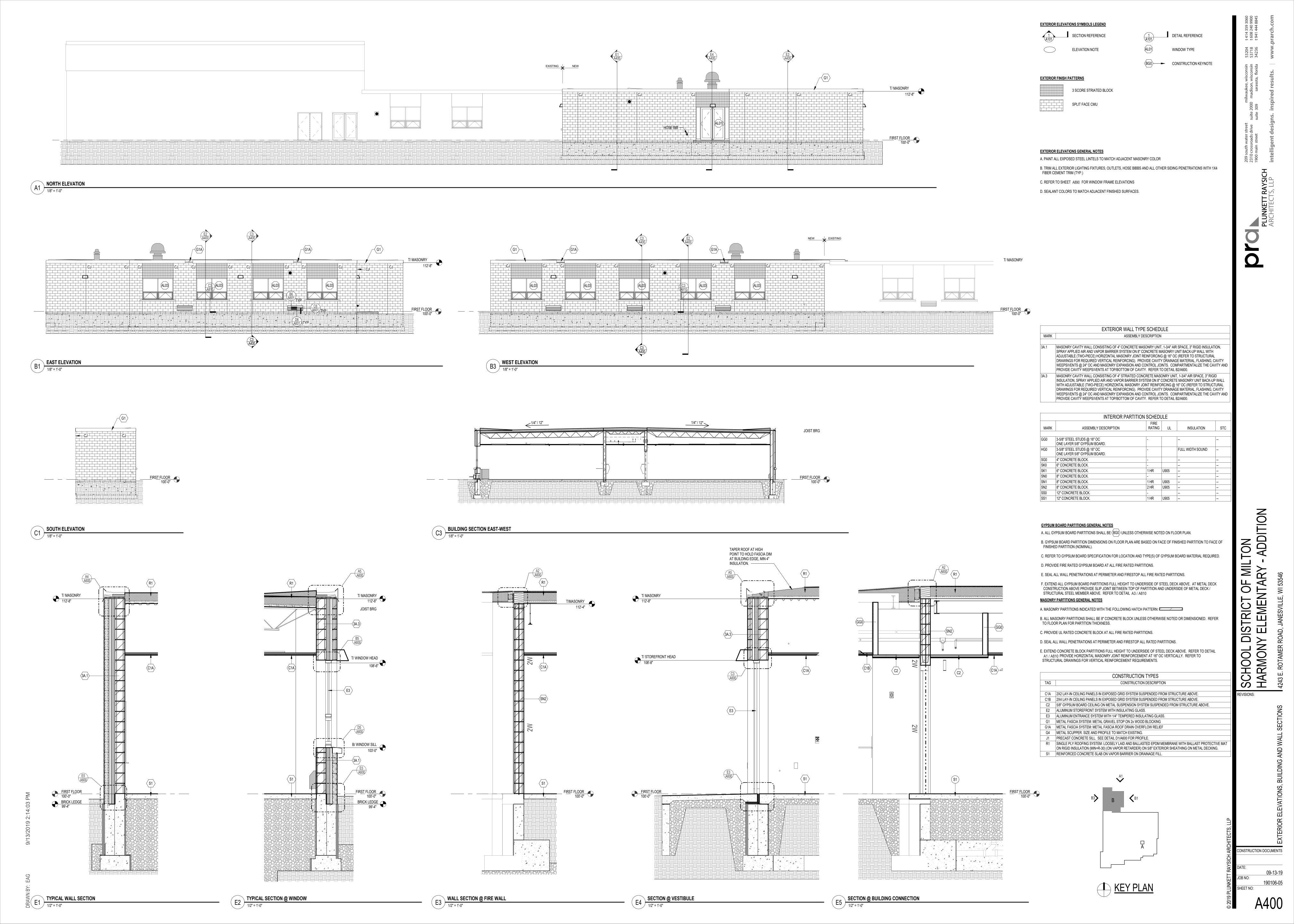
E1 REFLECTED CEILING PLAN - AREA B

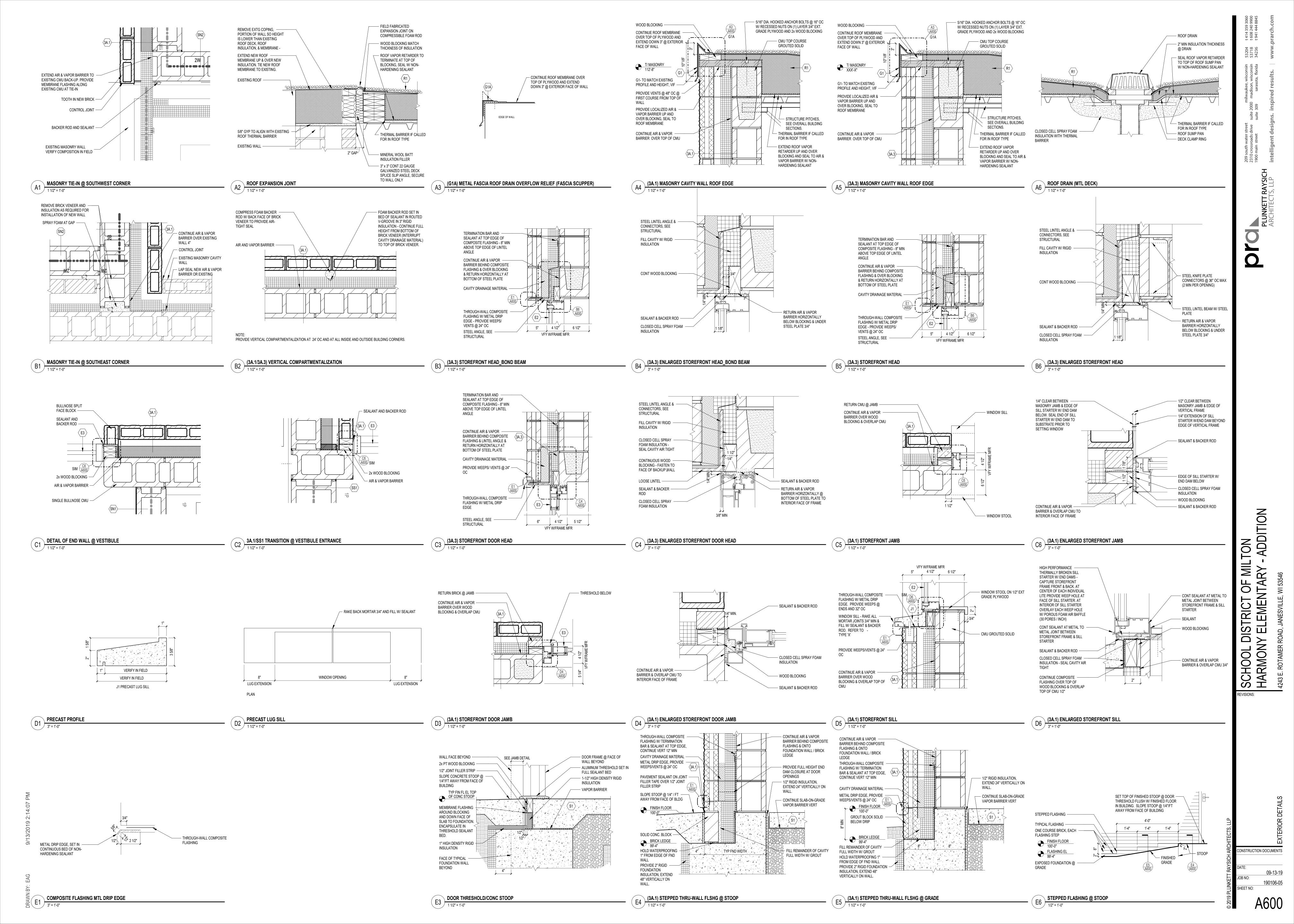
FLOOR PATTERN PLAN - AREA B

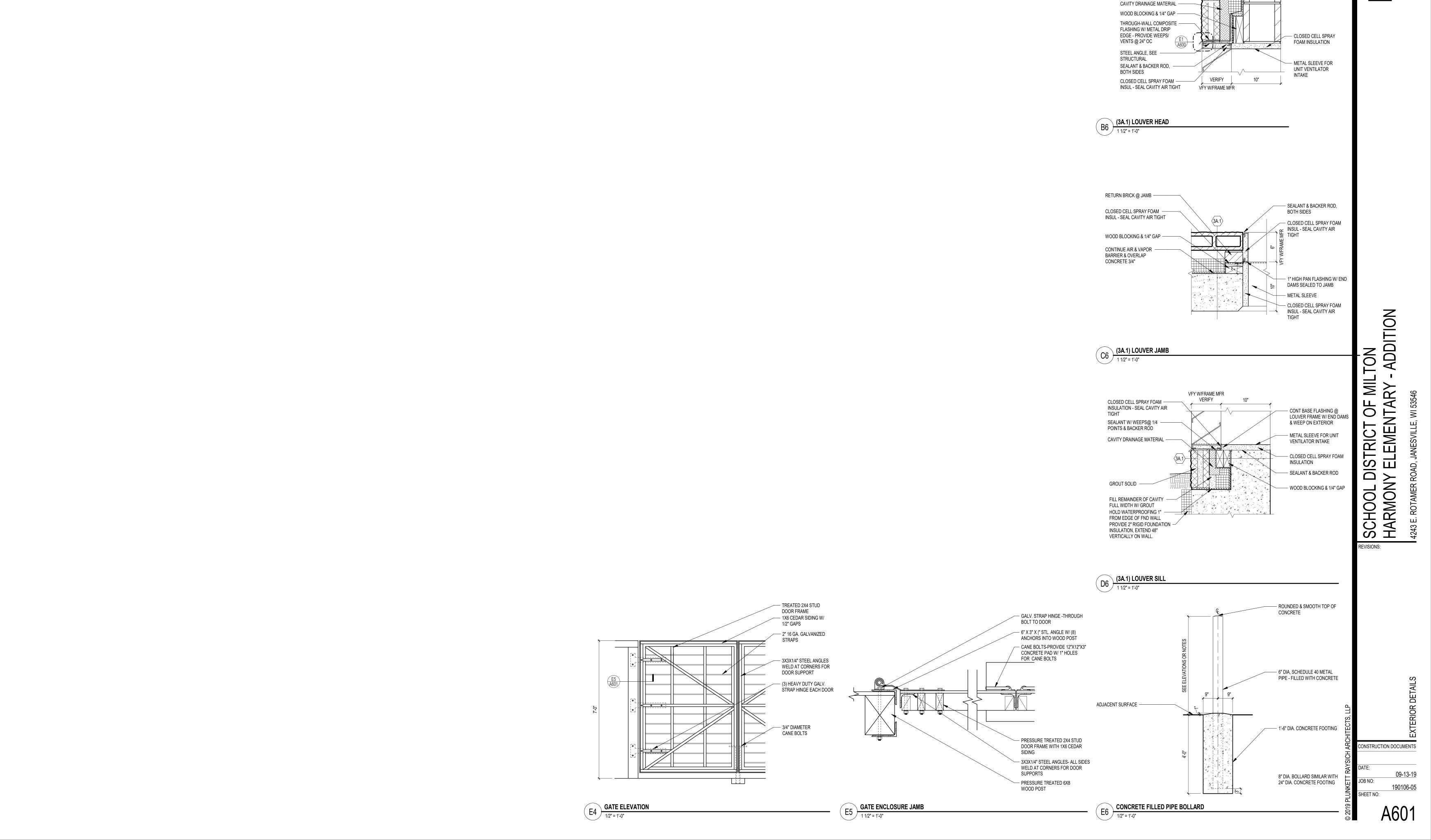
1/8" = 1'-0"

CONSTRUCTION DOCUMENTS

SCHOOL DISTRICT OF MILTON HARMONY ELEMENTARY - ADDITION







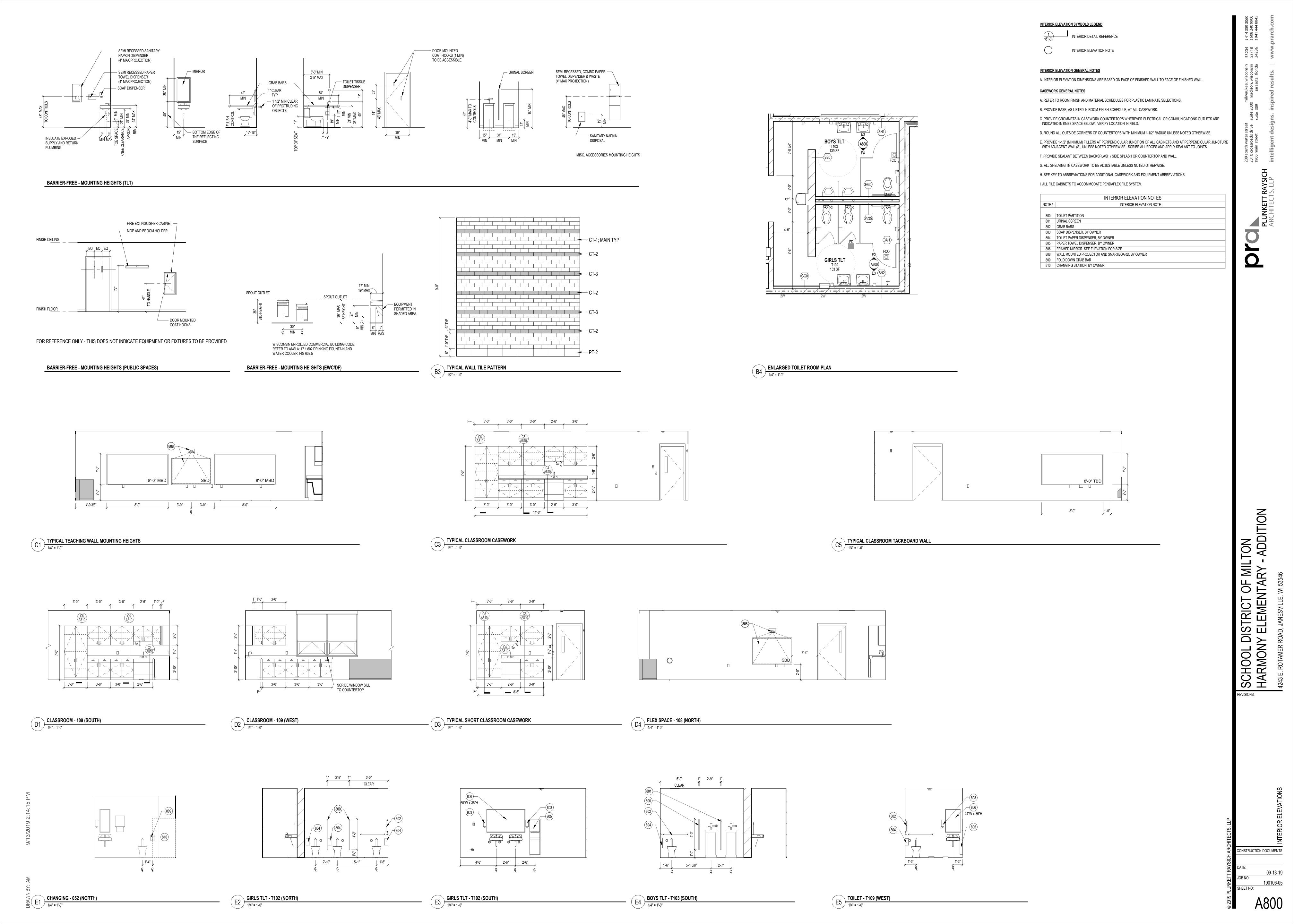
TERMINATION BAR AND
SEALANT AT TOP EDGE OF
COMPOSITE FLASHING - 8" MIN
ABOUT

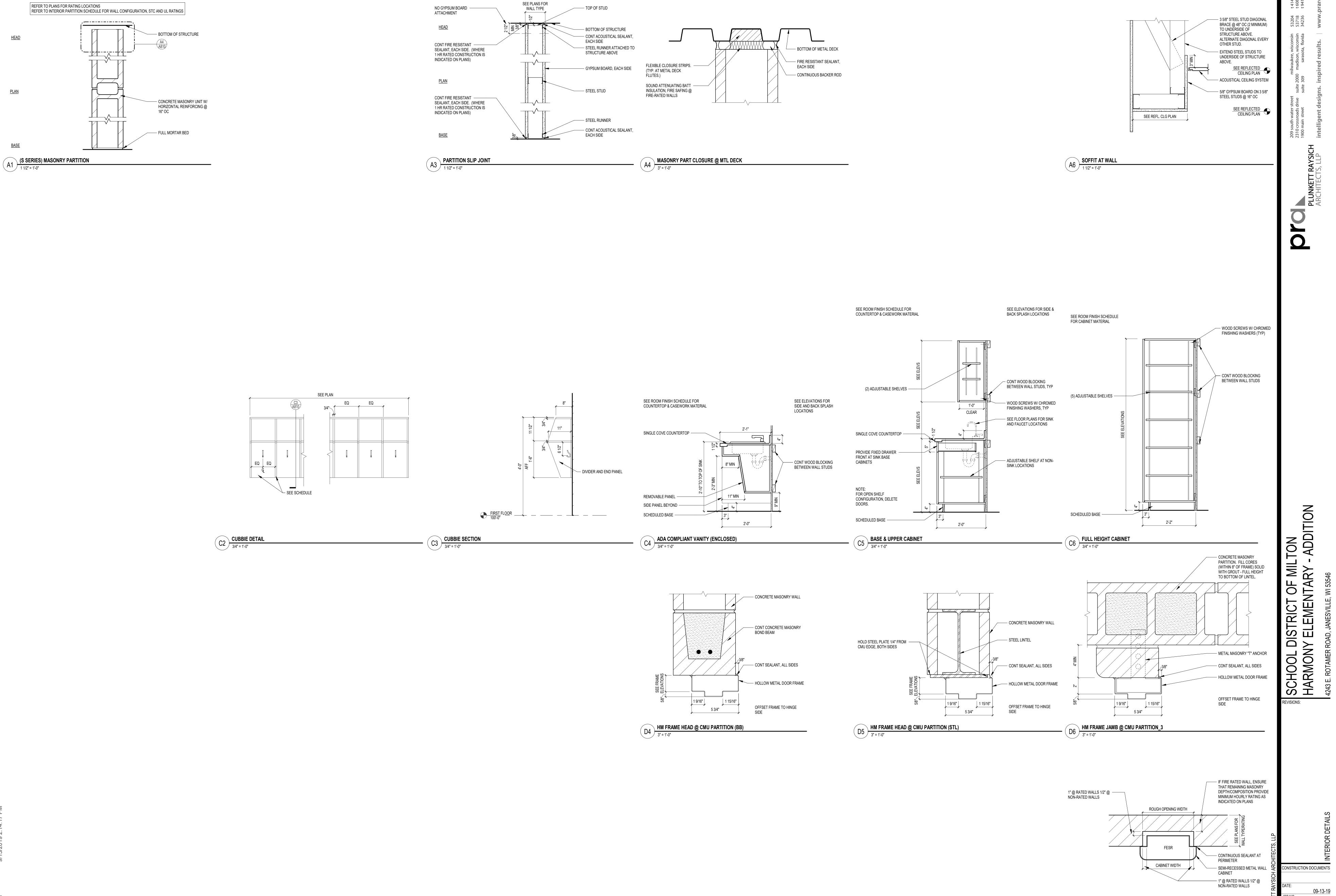
CONTINUE AIR & VAPOR
BARRIER BEHIND COMPOSITE
FLASHING & OVER BLOCKING &

RETURN HORIZONTALLY 4" AT BOTTOM OF BLOCKING.

ANGLE

RAWN BY: Author





FIRE EXTINGUISHER CABINET AT CMU (FESR)

1 1/2" = 1'-0"

190106-05

	STANDARD ABBREVIATIONS		STANDARD ABBRE
[A	CHANNEL AIR (MEDICAL)	MISC MJT	MISCELLANEOUS MOVEMENT JOINT
AC ACM	ACOUSTICAL CEILING ALUMINUM COMPOSITE MATERIAL, ASBESTOS CONTAINING MATERIA		METAL LAMINATE MASONRY OPENING
ADA ADH AFF	AMERICANS WITH DISABILITIES ACT ADHESIVE ABOVE FINISHED FLOOR	MTD MTL NA	MOUNTED METAL NOT APPLICABLE
AHU ALT	ABOVE FINISHED FLOOR AIR HANDLING UNIT ALTERNATE	NC NIC	NUT APPLICABLE NURSE CALL STATION NOT IN CONTRACT
ALUM ANOD	ALUMINUM ANODIZED	NO NOM	NUMBER NOMINAL
ATTD AWP	ATTACHED ACOUSTICAL WALL PANEL	NTS O	NOT TO SCALE OXYGEN
3/	BASE BOTTOM OF	OC OD	ON CENTER OUTSIDE DIAMETER
BB BD	BULLETIN BOARD BOARD	OHD OPNG	OVERHEAD DOOR OPENING
BF BL BLDG	BARRIER FREE BLINDS, BORROWED LITE BUILDING	OPP PA PAD	OPPOSITE PAINT PAINT, DRYFALL
BLKG BM	BLOCKING BEAM OR BENCH MARK	PAE PAF	PAINT WITH EGGSHELL FINISH PAINT WITH FLAT FINISH
BOT BR	BOTTOM BRICK	PART PAS	PARTITION PAINT WITH SEMI-GLOSS FINISH
BRG BSMT	BEARING BASEMENT	PASS PAT	PASSAGE PAINT WITH SATIN FINISH
BTWN C	BETWEEN CARPET	PAX PBD	PAINT, EPOXY PARTICLE BOARD
CAB CB CBD	CABINET CATCH BASIN CHALK BOARD	PC PE PERP	PRE-CAST POURED EPOXY PERPENDICULAR
CC CG	CUBICLE CURTAIN CORNER GUARD	PG PL	PATTERNED GLASS PLATE
J CL	CONTROL JOINT CENTER LINE	PLAM PLAS	PLASTIC LAMINATE PLASTER
CLG CLOS	CEILING CLOSET	PLBG PLYWD	PLUMBING PLYWOOD
CLR CMPT	CLEAR COMPARTMENT	PP PPT	PUSH PLATE (BARRIER FREE DOOR A
OMU OMM	CONCRETE MASONRY UNIT COLUMN COMMUNICATION	PS PSF	PROJECTION SCREEN POUNDS PER SQUARE FOOT
OMM ONC ONF	COMMUNICATION CONCRETE CONFERENCE	PT PTD PTM	PRESERVATIVE TREATED OR PORCE PAPER TOWEL DISPENSER PATCH TO MATCH
ONT ONTR	CONTINUOUS CONTRACTOR	PTS PU	PAICH TO MATCH PNEUMATIC TUBE STATION POURED URETHANE
ORR	CORRIDOR CRASH RAIL, CARD READER	QT QTZ	QUARRY TILE QUARTZ SURFACING MATERIAL
RK S	CORK (FLOORING) COMPUTER STATION	R RAF	RISER, RADIUS RESILIENT ATHLETIC FLOORING
TR	CERAMIC TILE CENTER OR COUNTER	RB RBR	RESILIENT BASE RUBBER, RUBBER FLOORING
TSK UB	COUNTERSUNK CUBICLE	RD REF	ROOF DRAIN REFRIGERATOR
OH CURT OBL	CABINET UNIT HEATER CURTAIN DOUBLE	REINF REQD REV	REINFORCED REQUIRED REVISION
EFS F	DOUBLE DIRECT-APPLIED EXTERIOR FINISH SYSTEM DRINKING FOUNTAIN	REV RF RFG	RESILIENT FLOORING ROOFING
IA IAG	DIAMETER DIAGONAL	RM RO	ROOM ROUGH OPENING, REVERSE OSMOSI
IM N	DIMENSION DOWN	RST RT	RESILIENT STAIR TREAD RESILIENT TILE
P R	DEPTH OR DEEP DOOR	RTU S	ROOFTOP UNIT SWITCH
S TL	DOWNSPOUT DETAIL	SC SCHD	SPECIAL COATING SCHEDULE
WG WL A	DRAWING DOWEL EACH	SCONC SD SG	SEALED CONCRETE SOAP DISPENSER SPANDREL GLASS
IFS J	EXTERIOR INSULATION AND FINISH SYSTEM EXPANSION JOINT	SGT SHT	STRUCTURAL GLAZED TILE SHEET
L LEC	ELEVATION ELECTRICAL	SIM	SIMILAR SLATE
LEV MBD	ELEVATOR ELECTRONIC MARKER BOARD	SLD SM	SOLID SURFACING MATERIAL SHEET METAL
P Q	ELECTRICAL PANEL EQUAL	SND/D SPF	SANITARY NAPKIN DISPENSER/DISPO SPRAY POLYURETHANE FOAM
TR W	EXISTING TO REMAIN EYE WASH	SPG SQ	SPECIALTY GLASS SQUARE
WC WH	ELECTRIC WATER COOLER ELECTRIC WALL HEATER	SS ST STC	STAINLESS STEEL STONE STORAGE CABINET
XP XT XTG	EXPOSED EXTERIOR EXISTING	STCONC STD	
AB	FILLER FABRIC	STL STN	STEEL STAIN
B D	FACE BRICK FLOOR DRAIN	STOR STRUCT	STORAGE
E ER	FIRE EXTINGUISHER (BRACKET MTD.) FIRE EXTINGUISHER IN (RECESSED CAB.)	SUSP SV	SUSPENDED SHEET VINYL
ES ESR	FIRE EXTINGUISHER IN (SURFACE MTD. CAB.) FIRE EXTINGUISHER IN (SEMI-RECESSED CAB.)	T T & G	TREAD TONGUE AND GROOVE
F G	FACTORY FINISH, FINISH FLOOR FIRE RATED SAFETY GLASS	T/ TBD TEL	TOP OF TACK BOARD
HC IN L	FIRE HOSE CABINET FINISH(ED) FLUSH	TEMP TER	TELEPHONE TEMPERED OR TEMPORARY TERRAZZO
LR LRG	FLOOR FLOORING	TH TLT	THICK(NESS) TOILET
LSHG	FLASHING FLOOR MAT	TOB TOD	TOP OF BEAM TOP OF DECK
ND R	FOUNDATION FRAME	TOF TOJ	TOP OF FOOTING TOP OF JOIST
RP RT	FIBERGLASS REINFORCED PLASTIC FIRE RETARDANT TREATED	TOM TOS	TOP OF MASONRY TOP OF SLAB OR TOP OF STEEL
TG V	FOOTING FILM VIEWER, FIELD VERIFY	TOW TP	TOP OF WALL TOILET PARTITION
A ALV B	GALVANIZED GRAB BAR	TPG TPH TS	TOPPING TOILET PAPER HOLDER TUBING, STRUCTURAL OR TRANSITIO
R RAN	GROUT GRANITE	TV TWC	TELEVISION OR TV OUTLET TACKABLE WALL COVERING
YP	GYPSUM HEIGHT (HIGH)	TYP UC	TYPICAL UNDER COUNTER OR CABINET
B D	HOSE BIBB HAIR DRYER, HAND DRYER, HEAD OR HARD	UCD UCL	UNDERCUT DOOR UNDER CABINET LIGHT
DWR M	HARDWARE HOLLOW METAL	UH	UNIT HEATER UNEXCAVATED
, 	HORIZONTAL HIGH PERFORMANCE COATING	UNFIN UNO V	UNFINISHED UNLESS NOTED OTHERWISE
PC		V	VINYL VACUUM
PC R SS	HOUR HOLLOW STRUCTURAL SECTION	VAC VAR	VARIES
PC R SS VAC	HOUR	VAC VAR VCT VENT	VARIES VINYL COMPOSITION TILE VENTILATOR
PC R SS VAC C	HOUR HOLLOW STRUCTURAL SECTION HEATING, VENTILATING, AIR CONDITIONING INTERNATIONAL BUILDING CODE	VAR VCT	VINYL COMPOSITION TILE
PC R SS VAC C C J	HOUR HOLLOW STRUCTURAL SECTION HEATING, VENTILATING, AIR CONDITIONING INTERNATIONAL BUILDING CODE INSIDE DIAMETER INVERT ELEVATION	VAR VCT VENT VERT VIF VT W	VINYL COMPOSITION TILE VENTILATOR VERTICAL
PC R SS VAC C C S ISUL IT EWC	HOUR HOLLOW STRUCTURAL SECTION HEATING, VENTILATING, AIR CONDITIONING INTERNATIONAL BUILDING CODE INSIDE DIAMETER INVERT ELEVATION INSULATING GLASS INSULATION INTERIOR IMPACT RESISTANT WALL COVERING JANITOR	VAR VCT VENT VERT VIF VT W W/ W/O	VINYL COMPOSITION TILE VENTILATOR VERTICAL VERIFY IN FIELD VINYL TILE WIDTH OR WIDE WITH WITHOUT
PC R SS VAC GC D SISUL SIT RWC AN ST	HOUR HOLLOW STRUCTURAL SECTION HEATING, VENTILATING, AIR CONDITIONING INTERNATIONAL BUILDING CODE INSIDE DIAMETER INVERT ELEVATION INSULATING GLASS INSULATION INTERIOR IMPACT RESISTANT WALL COVERING JANITOR JOIST JOINT	VAR VCT VENT VERT VIF VT W W/ W/O WC WD	VINYL COMPOSITION TILE VENTILATOR VERTICAL VERIFY IN FIELD VINYL TILE WIDTH OR WIDE WITH WITHOUT WALL COVERING WOOD
PC R SS VAC C C S ISUL IT EWC AN ST C D O	HOUR HOLLOW STRUCTURAL SECTION HEATING, VENTILATING, AIR CONDITIONING INTERNATIONAL BUILDING CODE INSIDE DIAMETER INVERT ELEVATION INSULATING GLASS INSULATION INTERIOR IMPACT RESISTANT WALL COVERING JANITOR JOIST JOINT KNOCKED-DOWN KNOCK(ED)-OUT	VAR VCT VENT VERT VIF VT W W/ W/O WC WD WDW WDWK	VINYL COMPOSITION TILE VENTILATOR VERTICAL VERIFY IN FIELD VINYL TILE WIDTH OR WIDE WITH WITHOUT WALL COVERING WOOD WINDOW WOOD WORK
PC R SS VAC C G ISUL IT EWC AN BT D D SS	HOUR HOLLOW STRUCTURAL SECTION HEATING, VENTILATING, AIR CONDITIONING INTERNATIONAL BUILDING CODE INSIDE DIAMETER INVERT ELEVATION INSULATING GLASS INSULATION INTERIOR IMPACT RESISTANT WALL COVERING JANITOR JOIST JOINT KNOCKED-DOWN KNOCK(ED)-OUT KNEE SPACE KEYBOARD TRAY	VAR VCT VENT VERT VIF VT W W/ W/O WC WD WDW WDWK WF WLHG	VINYL COMPOSITION TILE VENTILATOR VERTICAL VERIFY IN FIELD VINYL TILE WIDTH OR WIDE WITH WITHOUT WALL COVERING WOOD WINDOW WOOD WORK WIDE FLANGE WALL HUNG
PC R SS VAC O SI	HOUR HOLLOW STRUCTURAL SECTION HEATING, VENTILATING, AIR CONDITIONING INTERNATIONAL BUILDING CODE INSIDE DIAMETER INVERT ELEVATION INSULATING GLASS INSULATION INTERIOR IMPACT RESISTANT WALL COVERING JANITOR JOIST JOINT KNOCKED-DOWN KNOCK(ED)-OUT KNEE SPACE KEYBOARD TRAY ANGLE LABORATORY	VAR VCT VENT VERT VIF VT W W/ W/O WC WD WDW WDWK WF	VINYL COMPOSITION TILE VENTILATOR VERTICAL VERIFY IN FIELD VINYL TILE WIDTH OR WIDE WITH WITHOUT WALL COVERING WOOD WINDOW WOOD WORK WIDE FLANGE
PC R SS VAC C SUL T WC NN ST D D S F AB AM	HOUR HOLLOW STRUCTURAL SECTION HEATING, VENTILATING, AIR CONDITIONING INTERNATIONAL BUILDING CODE INSIDE DIAMETER INVERT ELEVATION INSULATING GLASS INSULATION INTERIOR IMPACT RESISTANT WALL COVERING JANITOR JOIST JOINT KNOCKED-DOWN KNOCK(ED)-OUT KNEE SPACE KEYBOARD TRAY ANGLE	VAR VCT VENT VERT VIF VT W W/ W/O WC WD WDW WDW WDWK WF WLHG WRC WSCT	VINYL COMPOSITION TILE VENTILATOR VERTICAL VERIFY IN FIELD VINYL TILE WIDTH OR WIDE WITH WITHOUT WALL COVERING WOOD WINDOW WOOD WORK WIDE FLANGE WALL HUNG WARDROBE CABINET WAINSCOT
SUL T WC N T	HOUR HOLLOW STRUCTURAL SECTION HEATING, VENTILATING, AIR CONDITIONING INTERNATIONAL BUILDING CODE INSIDE DIAMETER INVERT ELEVATION INSULATING GLASS INSULATION INTERIOR IMPACT RESISTANT WALL COVERING JANITOR JOIST JOINT KNOCKED-DOWN KNOCK(ED)-OUT KNEE SPACE KEYBOARD TRAY ANGLE LABORATORY LAMINATE(D) LAVATORY	VAR VCT VENT VERT VIF VT W W/ W/O WC WD WDW WDWK WF WLHG WRC WSCT WWF	VINYL COMPOSITION TILE VENTILATOR VERTICAL VERIFY IN FIELD VINYL TILE WIDTH OR WIDE WITH WITHOUT WALL COVERING WOOD WINDOW WOOD WORK WIDE FLANGE WALL HUNG WARDROBE CABINET WAINSCOT WELDED WIRE FABRIC
SUL T WC N T	HOUR HOLLOW STRUCTURAL SECTION HEATING, VENTILATING, AIR CONDITIONING INTERNATIONAL BUILDING CODE INSIDE DIAMETER INVERT ELEVATION INSULATING GLASS INSULATION INTERIOR IMPACT RESISTANT WALL COVERING JANITOR JOIST JOINT KNOCKED-DOWN KNOCK(ED)-OUT KNEE SPACE KEYBOARD TRAY ANGLE LABORATORY LAMINATE(D) LAVATORY LONG, LAMINATED GLASS LINOLEUM LOCKER LEAD LINED LONG SPAN JOIST	VAR VCT VENT VERT VIF VT W W/ W/O WC WD WDW WDWK WF WLHG WRC WSCT WWF	VINYL COMPOSITION TILE VENTILATOR VERTICAL VERIFY IN FIELD VINYL TILE WIDTH OR WIDE WITH WITHOUT WALL COVERING WOOD WINDOW WOOD WORK WIDE FLANGE WALL HUNG WARDROBE CABINET WAINSCOT WELDED WIRE FABRIC
PC R SS VAC C SUL T WC N ST O O O S AB N KR S S AS	HOUR HOLLOW STRUCTURAL SECTION HEATING, VENTILATING, AIR CONDITIONING INTERNATIONAL BUILDING CODE INSIDE DIAMETER INVERT ELEVATION INSULATING GLASS INSULATION INTERIOR IMPACT RESISTANT WALL COVERING JANITOR JOIST JOINT KNOCKED-DOWN KNOCK(ED)-OUT KNEE SPACE KEYBOARD TRAY ANGLE LABORATORY LAMINATE(D) LAVATORY LONG, LAMINATED GLASS LINOLEUM LOCKER LEAD LINED LONG SPAN JOIST LIGHT MASONRY	VAR VCT VENT VERT VIF VT W W/ W/O WC WD WDW WDWK WF WLHG WRC WSCT WWF	VINYL COMPOSITION TILE VENTILATOR VERTICAL VERIFY IN FIELD VINYL TILE WIDTH OR WIDE WITH WITHOUT WALL COVERING WOOD WINDOW WOOD WORK WIDE FLANGE WALL HUNG WARDROBE CABINET WAINSCOT WELDED WIRE FABRIC
IORIZ IPC IR ISS IVAC BC BC IVAC BC INSUL INT RWC AN ST T ID CO IS IN KR AM AV G IN KR L SJ T IMAS IMAX IBD IBD	HOUR HOLLOW STRUCTURAL SECTION HEATING, VENTILATING, AIR CONDITIONING INTERNATIONAL BUILDING CODE INSIDE DIAMETER INVERT ELEVATION INSULATING GLASS INSULATION INTERIOR IMPACT RESISTANT WALL COVERING JANITOR JOIST JOINT KNOCKED-DOWN KNOCK(ED)-OUT KNEE SPACE KEYBOARD TRAY ANGLE LABORATORY LAMINATE(D) LAVATORY LONG, LAMINATED GLASS LINOLEUM LOCKER LEAD LINED LONG SPAN JOIST LIGHT	VAR VCT VENT VERT VIF VT W W/ W/O WC WD WDW WDWK WF WLHG WRC WSCT WWF	VINYL COMPOSITION TILE VENTILATOR VERTICAL VERIFY IN FIELD VINYL TILE WIDTH OR WIDE WITH WITHOUT WALL COVERING WOOD WINDOW WOOD WORK WIDE FLANGE WALL HUNG WARDROBE CABINET WAINSCOT WELDED WIRE FABRIC

MANUFACTURER
MONOLITHIC FLOAT GLASS

MISC	MISCELLANEOUS
MJT MLAM	MOVEMENT JOINT METAL LAMINATE
MO MTD	MASONRY OPENING MOUNTED
MTL NA	METAL NOT APPLICABLE
NC	NURSE CALL STATION
NIC NO	NOT IN CONTRACT NUMBER
NOM NTS	NOMINAL NOT TO SCALE
0 0C	OXYGEN ON CENTER
OD	OUTSIDE DIAMETER
OHD OPNG	OVERHEAD DOOR OPENING
OPP PA	OPPOSITE PAINT
PAD PAE	PAINT, DRYFALL PAINT WITH EGGSHELL FINISH
PAF	PAINT WITH FLAT FINISH
PART PAS	PARTITION PAINT WITH SEMI-GLOSS FINISH
PASS PAT	PASSAGE PAINT WITH SATIN FINISH
PAX PBD	PAINT, EPOXY PARTICLE BOARD
PC	PRE-CAST
PE PERP	POURED EPOXY PERPENDICULAR
PG PL	PATTERNED GLASS PLATE
PLAM	PLASTIC LAMINATE
PLAS PLBG	PLASTER PLUMBING
PLYWD PP	PLYWOOD PUSH PLATE (BARRIER FREE DOOR ACTIVATOR)
PPT PS	PARAPET PROJECTION SCREEN
PSF PT	POUNDS PER SQUARE FOOT PRESERVATIVE TREATED OR PORCELAIN TILE
PTD	PAPER TOWEL DISPENSER
PTM PTS	PATCH TO MATCH PNEUMATIC TUBE STATION
PU QT	POURED URETHANE QUARRY TILE
QTZ	QUARTZ SURFACING MATERIAL
R RAF	RISER, RADIUS RESILIENT ATHLETIC FLOORING
RB RBR	RESILIENT BASE RUBBER, RUBBER FLOORING
RD REF	ROOF DRAIN REFRIGERATOR
REINF	REINFORCED
REQD REV	REQUIRED REVISION
RF RFG	RESILIENT FLOORING ROOFING
RM RO	ROOM ROUGH OPENING, REVERSE OSMOSIS
RST	RESILIENT STAIR TREAD
rt Rtu	RESILIENT TILE ROOFTOP UNIT
S SC	SWITCH SPECIAL COATING
SCHD SCONC	SCHEDULE SEALED CONCRETE
SD SG	SOAP DISPENSER SPANDREL GLASS
SGT	STRUCTURAL GLAZED TILE
SHT SIM	SHEET SIMILAR
SL SLD	SLATE SOLID SURFACING MATERIAL
SM SND/D	SHEET METAL SANITARY NAPKIN DISPENSER/DISPOSAL UNIT
SPF SPG	SPRAY POLYURETHANE FOAM SPECIALTY GLASS
SQ	SQUARE
SS ST	STAINLESS STEEL STONE
STC STCONC	STORAGE CABINET STAINED CONCRETE
STD STL	STANDARD STEEL
STN	STAIN
STOR STRUCT	STORAGE STRUCTURE OR STRUCTURAL
SUSP SV	SUSPENDED SHEET VINYL
T T&G	TREAD TONGUE AND GROOVE
T/	TOP OF
TBD TEL	TACK BOARD TELEPHONE
TEMP TER	TEMPERED OR TEMPORARY TERRAZZO
TH TLT	THICK(NESS) TOILET
TOB	TOP OF BEAM
TOD TOF	TOP OF DECK TOP OF FOOTING
TOJ TOM	TOP OF JOIST TOP OF MASONRY
TOS TOW	TOP OF SLAB OR TOP OF STEEL TOP OF WALL
TP TPG	TOILET PARTITION TOPPING
TPH	TOILET PAPER HOLDER
TS TV	TUBING, STRUCTURAL OR TRANSITION STRIP TELEVISION OR TV OUTLET
TWC TYP	TACKABLE WALL COVERING TYPICAL
UC UCD	UNDER COUNTER OR CABINET UNDERCUT DOOR
UCL	UNDER CABINET LIGHT
UH UNEXC	UNIT HEATER UNEXCAVATED
UNFIN UNO	UNFINISHED UNLESS NOTED OTHERWISE
V VAC	VINYL VACUUM
VAR	VARIES
VCT VENT	VINYL COMPOSITION TILE VENTILATOR
VEDT	VERTICAL VERIFY IN FIELD
VERT VIF	VINYL TILE
VIF VT	WIDTH OD WIDE
VIF VT W W/	WIDTH OR WIDE WITH
VIF VT W	WITH WITHOUT WALL COVERING
VIF VT W W/ W/O	WITH WITHOUT
VIF VT W W/ W/O WC WD WDW WDWK	WITH WITHOUT WALL COVERING WOOD WINDOW WOOD WORK
VIF VT W W/O W/O WC WD WDW WDWK WF WLHG	WITH WITHOUT WALL COVERING WOOD WINDOW WOOD WORK WIDE FLANGE WALL HUNG
VIF VT W W/ W/O WC WD WDW WDW WDWK	WITH WITHOUT WALL COVERING WOOD WINDOW WOOD WORK WIDE FLANGE

				RO	OOM FINISH	SCHEDULE						
ROOM					WALL F	NISH		CEI	LING	CASE	WORK	
NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH	EAST	SOUTH	WEST	TYPE	FINISH	CABINET	COUNTERTOP	COMMENTS REV
FIRST FLOOR												
034	CORR	EXTG/PATCH	EXTG/RB	EXTG/PA	EXTG/PA	EXTG	EXTG/PA	EXTG/SUSP	EXTG/AC	PLAM-1		3,4
038	ART	EXTG	EXTG/RB	EXTG/PA	EXTG	EXTG	EXTG	EXTG	EXTG			3
052A	CHANGING	PT-1	PT-2	CT-1,2,3	CT-1,2,3	CT-1,2,3	CT-1,2,3	SUSP	AC-2			2
101	ALCOVE	PT-1	PT-2/RB-1		CT-1,2,3		PAS-1	SUSP	AC-1			1,2
104	CLASSROOM	VT-1,2,3	RB-1	PAS-1	PAS-1	PAS-2	PAS-1	SUSP	AC-1	PLAM-1	PLAM-2	1
105	CLASSROOM	VT-1,2,3	RB-1	PAS-2	PAS-1	PAS-1	PAS-1	SUSP	AC-1	PLAM-1	PLAM-2	1
107	CLASSROOM	VT-1,2,3	RB-1	PAS-2	PAS-1	PAS-1	PAS-1	SUSP	AC-1	PLAM-1	PLAM-2	1
108	FLEX SPACE	VT-1,2,3	RB-1	PAS-2	PAS-1	PAS-1	PAS-1	SUSP	AC-1	PLAM-1	PLAM-2	1
109	KINDERGARTEN	VT-1,2,3	RB-1	PAS-1	PAS-2	PAS-1	PAS-1	SUSP	AC-1	PLAM-1	PLAM-2	1
109A	STOR	VT-1	RB-1	PAS-1	PAS-1	PAS-1	PAS-1	SUSP	AC-1			
C100	CORRIDOR	VT-1,2,3	RB-1	PAS-1	PAS-1	PAS-1	PAS-1	SUSP	AC-1	PLAM-1		1,4
T102	GIRLS TLT	PT-1	PT-2	CT-1,2,3	CT-1,2,3	CT-1,2,3	CT-1,2,3/PAS-1	SUSP	AC-2			1,2,5
T103	BOYS TLT	PT-1,3	PT-2	CT-1,2,3	CT-1,2,3	CT-1,2,3	CT-1,2,3/PAS-1	SUSP	AC-2	-		1,2,5
T109	TLT	PT-1	PT-2	PAS-1	PAS-1	CT-1,2,3	CT-1,2,3	SUSP	AC-2			1,2
V106	VEST	C-1	RB-1	PAS-1	PAS-1	PAS-1	PAS-1	SUSP	AC-1			

ROOM FINISH GENERAL NOTES:

A. ALL FACES AND UNDERSIDES OF SOFFITS TO BE PAINTED ADJACENT WALL COLOR UNLESS NOTED OTHERWISE. B. PAINT ALL MISC. METAL/GRILLES, ETC. TO MATCH PAINT OF ADJACENT WALL.

C. PROVIDE RS-1 AT ALL NEW WINDOWS. D. PROVIDE TR-1 AT ALL OUTSIDE TILE CORNERS AND AT TILE BASE WITH NO TILE ABOVE AND TR-1 AT ALL FLOORING TRANSITIONS. E. ALL TACK BOARDS AND TACK STRIPS TO BE TWC-1.

ROOM FINISH SCHEDULE COMMENTS:

1. REFER TO FLOOR PATTERN PLANS FOR DETAILS.

2. REFER TO TYPICAL WALL TILE PATTERN FOR DETAILS. 3. PATCH TO MATCH ALL EXISTING FINISHES; COORDINATE WITH INTERIOR DESIGNER AND DISTRICT.

4. CUBBIES TO BE PLAM-1. 5. PROVIDE TP-1.

				DOOR SO	CHEDULE								
DOOR	ROOM				DOOR			F	RAME		HARDWARE		
NUMBER	NUMBER	ROOM NAME	SIZE	TYPE	MATERIAL	FINISH	GLASS	TYPE	FINISH	DOOR RATING	GROUP	COMMENTS	RE\
FIRST FLOOR													
104	104	CLASSROOM	3'-0"W x 7'-0"H	NR : 4	WD	STN	FG	HM2 : B	PA	20 MINUTE	7.3	2,7	T
105	105	CLASSROOM	3'-0"W x 7'-0"H	NR : 4	WD	STN	FG	HM2 : B	PA	20 MINUTE	7.3	2.7	
105.1	105	CLASSROOM	3'-6"W x 7'-0"H	N : 4	WD	STN	MGT	HM2 : B	PA	-	7.5	-	
107	107	CLASSROOM	3'-0"W x 7'-0"H	NR:4	WD	STN	FG	HM2 : B	PA	20 MINUTE	7.3	2.7	
107.1	107	CLASSROOM	3'-6"W x 7'-0"H	N : 4	WD	STN	MGT	HM2 : B	PA	-	7.5	-	
108	108	FLEX SPACE	3'-0"W x 7'-0"H	NR : 4	WD	STN	FG	HM2 : B	PA	20 MINUTE	7.3	2,7	
109	109	KINDERGARTEN	3'-0"W x 7'-0"H	F:1	WD	STN	-	HM2 : B	PA	20 MINUTE	7.3	2,7	
109A	109A	STOR	3'-0"W x 7'-0"H	F:1	WD	STN	-	HM2 : B	PA	45 MINUTE	7.2	7	
109A.1	109A	STOR	3'-0"W x 7'-0"H	F:1	WD	STN	-	HM2 : B	PA	90 MINUTE	7.0	-	
C100.6	C100	CORRIDOR	3'-0"W / 3'-0"W x 8'-0"H	F:1	MTL	PA	-	HM4 : B	PA	90 MINUTE	-	2	
T109	T109	TLT	3'-0"W x 7'-0"H	F:1	WD	STN	-	HM2 : B	PA	-	4.1	7,8	
V106	V106	VEST	3'-0"W x 8'-6"H	FG:5	AL	ANOD	IGT	AL	ANOD	-	1.7	1,4	
V106.1	V106	VEST	3'-0"W x 8'-6"H	FG:5	AL	ANOD	IGT	AL	ANOD	-	1.6	1,4,5	
V106.2	V106	VEST	3'-0"W / 3'-0"W x 7'-0"H	FG:5	AL	ANOD	MGT	AL	ANOD	-	2.2	1	

GLAZING SCHEDULE:

DOOR SCHEDULE COMMENTS:

 SEE EXTERIOR ELEVATIONS OR FLOOR PLANS FOR FRAME TYPES.
 MAGNETIC HOLD-OPEN, TIE TO FIRE ALARM MGT MONOLITHIC FLOAT GLASS - FULLY TEMPERED FG FIRE-RATED SAFETY GLASS IGT INSULATING GLASS - FULLY TEMPERED

2. MAGNETIC HOLD-OPEN, TIE TO FIRE ALARM
3. NOT USED
4. ELECTRIC STRIKE OR LOCK
5. CARD ACCESS
6. REMOVABLE MULLION.
7. CLOSER
8. 1" DOOR UNDERCUT. REFER TO MECHANICAL DRAWINGS

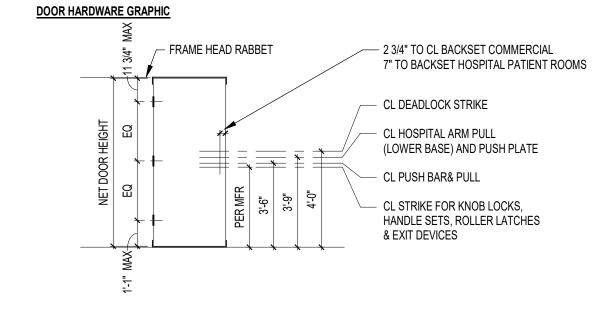
GENERAL DOOR NOTES:

A. ALL METAL DOORS, FRAMES AND MISC. METAL TO BE PAINTED PAS-3. B. DOOR NUMBER IS IDENTICAL TO NUMBER OF ROOM IN WHICH DOOR OCCURS. IN CASES OF MULTIPLE DOORS IN ONE

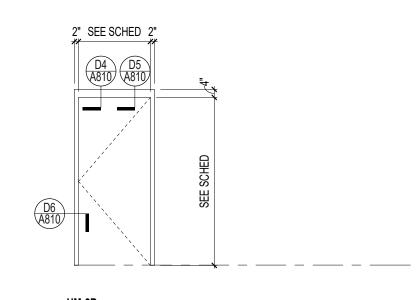
ROOM, SUFFIXES ARE ADDED TO DOOR NUMBER.

C. ALL DOORS ARE 1-3/4" THICK, UNLESS NOTED OTHERWISE.

D. ALL DOORS RECEIVING PANIC HARDWARE - LITES TO BE 3'-6" AFF MINIMUM FOR HARDWARE CLEARANCE BELOW LITE.

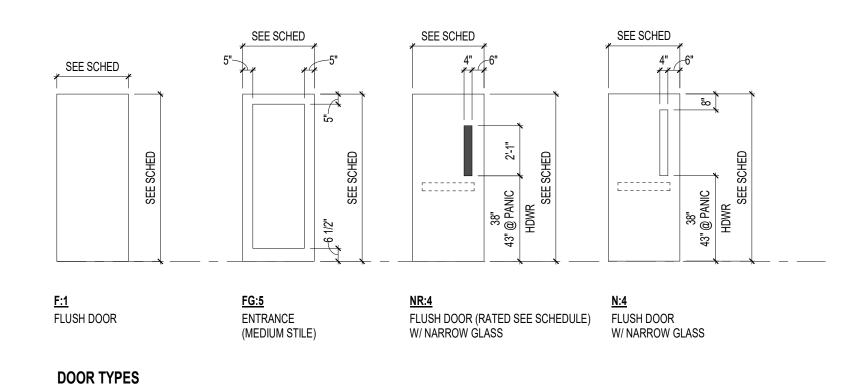


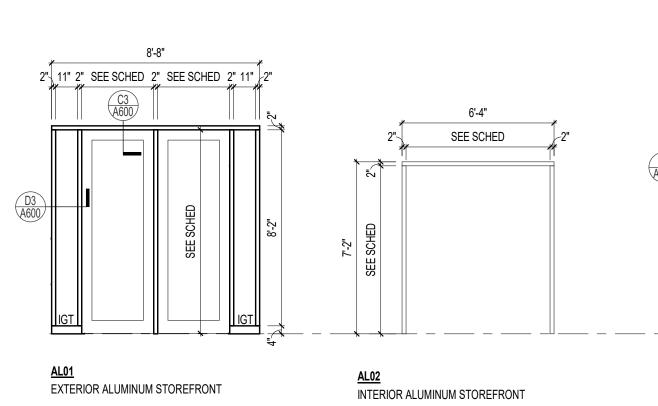
		MATERIAL SCHEDULE		ı
CODE	MATERIAL	NAME & NUMBER	MANUFACTURER	REV
INTERIOR ARC	CHITECTURAL WOODWORK - DIVISION 6			
PLAM-1	PLASTIC LAMINATE	MONTICELLO MAPLE 7925-38; FINE VELVET FINISH	WILSONART	
PLAM-2	PLASTIC LAMINATE	P-405CA VALENKI GREY	ARBORITE	
*	PVC EDGE BANDING	TO MATCH PLAM FINISH		
TILE - DIVISION	N 9			
CT-1	CERAMIC TILE	BRIGHT & MATTE PROFILES, ICE WHITE 0025, 3" X 6"	AMERICAN OLEAN	
CT-2	CERAMIC TILE	BRIGHT & MATTE PROFILES, LIGHT SMOKE 0042, 3" X 6"	AMERICAN OLEAN	
CT-3	CERAMIC TILE	SEMI-GLOSS, VERMILLION 0DM1, 3" X 6"	DALTILE	
PT-1	PORCELAIN TILE (FLOOR)	ARGENT, ON THE ROCKS 12" X 24"; UNPOLISHED	CROSSVILLE/VIRGINIA TILE	
PT-2	PORCELAIN TILE (BASE)	ARGENT, ON THE ROCKS 6" X 12" COVE BASE; UNPOLISHED	CROSSVILLE/VIRGINIA TILE	
PT-3	PORCELAIN TILE (FLOOR)	ARGENT, ON THE ROCKS 6" X 6"; UNPOLISHED	CROSSVILLE/VIRGINIA TILE	
TR-1	TRANSITION STRIP	SCHLUTER, JOLLY; STAINLESS STEEL	SCHLUTER	
TR-2	TRANSITION STRIP	SCHLUTER, SCHIENE; STAINLESS STEEL SCHLUTER, SCHIENE; STAINLESS STEEL	SCHLUTER	
GR-1	GROUT	TRU COLOR, FRENCH GRAY H142	BOSTIK	
GR-2	GROUT	TRU COLOR, MISTY GRAY H144	BOSTIK	
ACOUSTICAL C	CEILING - DIVISION 9		T	
AC-1	ACOUSTICAL CEILING	CANYON 1490, SQUARE LAY-IN, 24" X 24" X 5/8" WHITE WITH 15/16" PRELUDE GRID, WHITE	ARMSTRONG	
		, ,		
AC-2	ACOUSTICAL CEILING	#868 CLEAN ROOM VL, SQUARE LAY-IN, UNPERFORATED, 2' X 2' X 5/8", WITH 15/16" PRELUDE GRID, WHITE	ARMSTRONG	
	DODING DIVIDIGNO			
RESILIENT FLC	DORING - DIVISION 9			
RB-1	RESILIENT BASE	4" VINYL BASE; #40 BLACK	JOHNSONITE	
VT-1	VINYL TILE	MATUTO PLUS, 915A FROSTBITE, 12" X 24"	MOHAWK	
VT-2 VT-3	VINYL TILE VINYL TILE	MATUTO PLUS, 927A SONIC SILVER, 12" X 24" MATUTO PLUS, 353A RED HOT, 12" X 24"	MOHAWK MOHAWK	
<u> </u>	VIVIL	MATOTOT EGG, GOOKTEE HOT, 12 X24	INOTINITY	
CARPET - DIVIS	SION 9			
C-1	CARPET (WALK OFF)	STEP REPEAT SR999, COLOR 104945 ONYX, 50CM X 50CM WITH GLASBAC TILE BACKING	INTERFACE	
∪ -l	CARPET (WALK OFF)	STEP REPEAT SK999, COLOR 104943 ONTA, SUOW A SUOW WITH GLASBAC TILE BACKING	INTERFACE	
*	TRANSITION STRIP	TO BE DETERMINED	TO BE DETERMINED	
TACKABLE WA	LLCOVERING - DIVISION 9		I	
TWC-1	TACKABLE WALLCOVERING	2182 POTATO SKIN	FORBO	
PAINTING / STA	AINING - DIVISION 9 (REFER TO ROOM FINISH	SCHEDULE FOR FINISH DESIGNATION) PAD, PAE, PAF, PAS, PAT or PAX		
PA-1	PAINT	MILTON STANDARD WHITE - JUICE VANHORN	HALLMAN LINDSAY	
PA-2 PA-3	PAINT PAINT	SW7668 MARCH WIND MILTON STANDARD RED	SHERWIN WILLAIMS HALLMAN LINDSAY	
1 A-V	I Ally I	INILI ON CTANDARD INLD	TIALLIVIAN LINDOAT	
STN-1	STAIN	TO MATCH EXISTING DOOR STAIN		
INTERIOR SIGN	NAGE - DIVISION 10			
SIGN-1	INTERIOR SIGNAGE	TO MATCH SCHOOL STANDARD	-	
<u></u>				
TOILET COMPA	ARTMENTS - DIVISION 10		T	
TP-1	TOILET PARTITION - PLASTIC	CHARCOAL #9237	ASI	
WINDOW TREA	ATMENT - DIVISION 12	I	1	
-				
RS-1	ROLLER SHADES	ENLIGHTENED STYLE E SCREEN 3% OPENNESS, COLOR R8108 CHARCOAL/GRAY	BUDGET BLINDS/HINTER DOUGLAS	

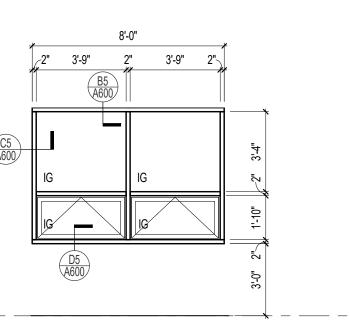


<u>HM:2B</u> HOLLOW METAL FRAME

FRAME ELEVATIONS







AL03
EXTERIOR ALUMINUM STOREFRONT

ALUMINUM FRAME ELEVATIONS

23.1 PSF FLAT ROOF SNOW LOAD (pf) PER ASCE 7-10 AND AS NOTED ON DRAWINGS DRIFT LOAD MECHANICAL EQUIPMENT. PIPING AND ROOF TOP AHU'S AS NOTED ON DRAWINGS WIND DATA 120 MPH BASIC WIND SPEED (3 SECOND GUST)

BUILDING ENCLOSURE **ENCLOSED EXPOSURE** WIND DIRECTIONALITY FACTOR (K d) TOPOGRAPHIC FACTOR (Kzt) GUST FACTOR (BUILDING IS RIGID) (G INTERNAL PRESSURE COEFFICIENT (GC pi) ± 0.18 ANALYSIS PROCEDURE CHAPTER 28 COMPONENTS AND CLADDING SEE ADJACENT TABLE SEISMIC DATA

SEISMIC IMPORTANCE FACTOR MAPPED SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (S s) 0.098 MAPPED SPECTRAL RESPONSE ACCELERATION FOR 1 SECOND PERIOD (S 1) 0.050 SITE CLASS PER GEOTECHNICAL REPORT DESIGN SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (S DS) 0.104 DESIGN SPECTRAL RESPONSE ACCELERATION FOR 1 SECOND PERIOD (S D1) 0.080 SEISMIC DESIGN CATEGORY BASIC SEISMIC FORCE RESISTING SYSTEM AND PARAMETERS ORDINARY REINFORCED MASONRY SHEAR WALLS R = 2.0 $\Omega_{O} = 2.0$ $C_{d} = 1.75$

SEISMIC RESPONSE COEFFICIENT (Cs)

ULTIMATE DESIGN BASE SHEAR 17.0 KIPS EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE ► MATERIAL STRENGTHS AND STANDARDS THE MATERIAL STRENGTHS AND STANDARDS LISTED HERE REPRESENT A SELECTED SUMMARY OF THE REQUIREMENTS NOTED IN THE SPECIFICATIONS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. IN CASE OF DISCREPANCY

BETWEEN THESE NOTES AND THE SPECIFICATIONS, THESE NOTES SHALL GOVERN. DESIGN SOIL BEARING CAPACITY FOR SPREAD/STRIP FOOTINGS 2000 PSF (PER GEOTECH) CONCRETE (28 DAY STRENGTH) **FOOTINGS** $f_c = 3,000 PSI$ FOUNDATION WALLS, INTEGRAL PIERS $f_c = 4,000 PSI$ $f_c = 4.000 PSI$ INTERIOR SI AB-ON-GRADI EXTERIOR SLAB-ON-GRADE $f_c = 4,500 PSI$ REINFORCING STEEL WELDED WIRE FABRIC, PROVIDED IN FLAT SHEETS ONLY (ASTM A185) $f_v = 65.000 PSI$ DEFORMED BARS (ASTM A615, GRADE 60) $f_y = 60,000 PSI$ MASONRY SOLID CONCRETE BRICK (ASTM C55) CONCRETE MASONRY UNIT ASSEMBLY $f'_{m} = 2,250 PSI$ CONCRETE MASONRY UNIT (ASTM C90 - LIGHTWEIGHT) 3,275 PSI MORTAR (ASTM C270) TYPE S GROUT (ASTM C476) $f_c = 3.000 PSI$ ANCHOR RODS (ASTM F1554, GRADE 36) $f_v = 36,000 PSI$ STRUCTURAL STEEL (SHAPES) WF. WT SECTIONS (ASTM A992) $F_v = 50.000 \text{ PSI}$: $F_{II} = 65.000 \text{ PSI}$ M, S, HP SECTIONS, CHANNELS, ANGLES (ASTM A36) $F_v = 36,000 \text{ PSI}; F_u = 58,000 \text{ PSI}$ $F_v = 50,000 \text{ PSI}$; $F_u = 62,000 \text{ PSI}$ HSS SHAPES – RECTANGULAR (ASTM A500, GRADE C) PLATES (ASTM A36) $F_y = 36,000 \text{ PSI}$; $F_u = 58,000 \text{ PSI}$ STRUCTURAL STEEL (CONNECTIONS) A325AS NOTED HIGH STRENGTH BOLTS (1 1/2" MAXIMUM DIAMETER) WELDING ELECTRODES

GENERAL NOTES EXISTING CONDITIONS INFORMATION PERTAINING TO EXISTING CONDITIONS GIVEN ON THE STRUCTURAL DRAWINGS REPRESENTS THE ACTUAL EXISTING FIELD CONDITION TO THE BEST OF OUR KNOWLEDGE. R.A. SMITH, INC. MAKES NO WARRANTY AS TO THEIR ACCURACY. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS, DIMENSIONS AND BUILDING CONDITIONS AFFECTING THE WORK BY DIRECT SURVEY AND MEASUREMENT PRIOR TO THE FABRICATION, ERECTION OR CONSTRUCTION OF ANY ITEM IMPACTED BY EXISTING CONDITIONS. REPORT DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND FIELD CONDITIONS FOR REVIEW. ANY WORK PERFORMED PRIOR TO THE RESOLUTION OF THE DISCREPANCIES IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.

SHEAR STUD CONNECTORS (ASTM A108, GRADE 1010 THROUGH 1020)

THREADED RODS (ASTM A36)

CONSTRUCTION

EXISTING STRUCTURE TO REMAIN IS SHOWN WITH LIGHT GRAY LINES. EXISTING STRUCTURE TO BE REMOVED IS NOT GENERALLY SHOWN ON STRUCTURAL DRAWINGS - SEE ARCHITECTURAL DRAWINGS FOR DEMOLITION DRAWINGS.

 $F_v = 50,000 PSI$

 $F_v = 36,000 PSI$

ALL EXISTING STRUCTURE TO REMAIN TO BE SUPPORTED BY NEW CONSTRUCTION SHALL BE SHORED UNTIL NEW CONSTRUCTION IS IN PLACE, COMPLETED, AND CAPABLE OF SUPPORTING THE EXISTING STRUCTURE. EXISTING STRUCTURE TO REMAIN THAT IS AFFECTED, BUT NOT SUPPORTED, BY NEW CONSTRUCTION SHALL BE SHORED UNTIL IT IS NO LONGER AFFECTED BY CONSTRUCTION ACTIVITIES.

UNLESS SPECIFICALLY NOTED OTHERWISE, BUILDING STRUCTURE HAS BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION ONLY, AND HAS NOT BEEN ANALYZED, INVESTIGATED OR DESIGNED FOR OVERALL STRUCTURE, OR INDIVIDUAL MEMBER, STABILITY DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY BRACING AND SUPPORTS FOR ALL STRUCTURAL ELEMENTS, BOTH INDIVIDUALLY AND COLLECTIVELY, AS REQUIRED AT EVERY STAGE OF CONSTRUCTION UNTIL THE FINAL COMPLETION OF THE STRUCTURE. NO PORTION OF THE BUILDING STRUCTURE, WHILE UNDER CONSTRUCTION IS INTENDED TO BE STABLE IN THE ABSENCE OF THE CONTRACTORS TEMPORARY BRACES AND SUPPORTS, WHICH SHALL ADDITIONALLY PROVIDE SUPPORT FOR ALL CONSTRUCTION LOADING. MATERIALS AND EQUIPMENT SHALL BE STORED, TRANSPORTED AND INSTALLED IN A MANNER THAT WILL NOT EXCEED THE DESIGN FLOOR LOADING.

CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, TEMPORARY BRACING, SUPPORTS, SHORING, FORMING TO SUPPORT IMPOSED CONSTRUCTION LOADS, AND OTHER SIMILAR ITEMS.

STRUCTURAL DOCUMENTS MAY REFER TO OSHA REQUIREMENTS. SUCH REFERENCES ARE INCIDENTAL, AND ARE NOT INTENDED TO IDENTIFY ALL APPLICABLE OSHA REQUIREMENTS. COMPLETENESS

SEE SPECIFICATIONS, PLANS AND DETAILS FOR ADDITIONAL REQUIREMENTS. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT MANUALLY SCALE THE DRAWINGS OR USE ANY

INFORMATION CONTAINED IN THE GENERAL NOTES IS ONLY A PARTIAL SUMMARY OF PROJECT REQUIREMENTS.

DIMENSIONS MEASURED FROM ELECTRONIC DRAWING FILES.

UNLESS NOTED OTHERWISE, CENTERLINE OF FLOOR FRAMING ELEMENTS COINCIDES WITH COLUMN CENTERLINES, AND FRAMING ELEMENTS ARE EQUALLY SPACED BETWEEN ADJACENT COLUMN CENTERLINES.

WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

MAJOR OPENING LOCATIONS AND SIZES ARE INDICATED ON THE STRUCTURAL DRAWINGS - SMALLER OPENINGS AND SLEEVES REQUIRED TO ACCOMMODATE VARIOUS BUILDING SERVICES MAY NOT BE NOTED. CONTRACTOR TO VERIFY THE SIZE AND LOCATION OF ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING OPENINGS, INCLUDING CLEARANCE REQUIREMENTS CONTAINED IN THE RESPECTIVE DISCIPLINE DOCUMENTS FOR INSTALLATION AND IN-PLACE OPERATION OF THE RESPECTIVE EQUIPMENT OR ITEMS. UNDER NO CIRCUMSTANCES MAY PENETRATIONS BE MADE IN ANY STRUCTURAL ELEMENT AFTER FINAL PLACEMENT IN THE BUILDING STRUCTURE,

CONSULT ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND MANUFACTURERS SPEC SHEETS FOR LOCATIONS AND DIMENSIONS OF PADS, CURBS, EQUIPMENT SUPPORTS, DEPRESSIONS, INSERTS, DRIPS, REGLETS, REVEALS, FINISHES AND OTHER MISCELLANEOUS PROJECT REQUIREMENTS THAT NECESSITATE INCIDENTAL ACCOMMODATION BY THE BUILDING STRUCTURE BUT ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.

THE STRUCTURE HAS BEEN DESIGNED AS UNRESTRAINED FOR THE PURPOSE OF FIRE RATING AND FIREPROOFING ASSEMBLY EVALUATIONS.

STRUCTURAL COMPONENTS HAVE NOT BEEN DESIGNED FOR VIBRATORY EQUIPMENT UNLESS NOTED OTHERWISE. PLACE VIBRATORY EQUIPMENT AND EQUIPMENT SENSITIVE TO VIBRATIONS ON VIBRATION ISOLATORS SPECIFICALLY DESIGNED FOR THE EQUIPMENT.

LATERAL BRACING FOR NON-STRUCTURAL ELEMENTS DESIGNED AND DETAILED BY COMPONENT SUPPLIERS SHALL BE DESIGNED TO APPLY LOADS DIRECTLY TO FLOOR OR ROOF DIAPHRAGMS. BRACES SHALL NOT ATTACH DIRECTLY TO BOTTOM FLANGES OF BEAMS OR BOTTOM CHORDS OF JOISTS UNLESS THE COMPONENT SUPPLIER PROVIDES ADDITIONAL BRACING FROM THOSE ELEMENTS TO THE FLOOR OR ROOF DIAPHRAGM AT EACH ATTACHMENT POINT.

HOLES, NOTCHES, BLOCK-OUTS AND OTHER SIMILAR FIELD MODIFICATIONS TO STRUCTURAL MEMBERS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED SHOP DRAWINGS ARE NOT PERMITTED.

EXCEPT AS NOTED BELOW, ALL FUTURE EXPANSION IS ASSUMED TO BE COMPLETELY SELF SUPPORTING FOR BOTH GRAVITY AND LATERAL LOADS.

SYSTEM NOTES

 FOUNDATIONS AND EARTHWORK REMOVE EXISTING SURFICIAL TOP SOIL AND VEGETATION FROM WITHIN THE BUILDING AREA AND A MINIMUM OF TEN FEET BEYOND. EXCAVATE MATERIAL TO PROPOSED SLAB-ON-GRADE SUBGRADE. PROOFROLL WITH A HEAVY RUBBER TIRED VEHICLE. SOILS WHICH HEAVE, PUMP, OR DO NOT READILY COMPACT SHALL BE EXCAVATED AND REPLACED

SUBGRADE PREPARATION FOR FOOTINGS SHALL CONSIST OF EXCAVATION TO REQUIRED ALLOWABLE BEARING CAPACITY SOILS AT OR NEAR DESIGN FOOTING ELEVATIONS. WHERE UNSUITABLE SOIL IS ENCOUNTERED AT NOMINAL BEARINGDEPTH, SEE OVER EXCAVATION DETAIL.

ALL COMPACTION REQUIREMENTS REFER TO % OF MAXIMUM DRY DENSITY PER ASTM D-1557 MODIFIED PROCTOR. GRANULAR STRUCTURAL FILL BENEATH FOOTINGS SHALL BE PLACED IN LAYERS NO MORE THAN 8" THICK, AND EACH LAYER SHALL BE COMPACTED TO 95%. COHESIVE FILL APPROVED BY THE GEOTECHNICAL CONSULTANT SHALL BE PLACED IN LAYERS NO THICKER THAN 8", AND EACH LAYER SHALL BE COMPACTED TO 95%. MOISTURE CONDITION FILI MATERIALS AS REQUIRED TO OBTAIN PROPER COMPACTION. COHESIVE SOILS OR GRANULAR SOILS WITH A SIGNIFICANT PERCENT OF COHESIVE FINES SHALL BE CONDITIONED TO WITHIN 3% OF OPTIMUM MOISTURE CONTENT

FOR GENERAL INFORMATION AND SPECIFIC RECOMMENDATIONS AND REQUIREMENTS PERTAINING TO THE PROJECT SITE, REFER TO THE PROJECT GEOTECHNICAL REPORT PREPARED BY PROFESSIONAL SERVICE INDUSTRIES, INC., JOB NUMBER 00522408-2, DATED SEPTEMBER 5, 2019 ALL ACTIVITIES CONCERNING PREPARATION AND VERIFICATION OF BEARING SOILS FOR SLAB-ON-GRADE AND FOOTINGS SHALL BE SUPERVISED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER.

COLUMNS, PIERS, AND SPREAD FOOTINGS ARE CENTERED ON GRIDLINES UNLESS NOTED OTHERWISE. CONTINUOUS FOOTINGS ARE CENTERED ON WALLS ABOVE UNLESS NOTED OTHERWISE.

BACKFILL UNIFORMLY ON EACH SIDE OF FOUNDATION WALLS, GRADE BEAMS AND OTHER SIMILAR ELEMENTS. DO NOT BACKFILL AGAINST ANY STRUCTURAL ELEMENT UNTIL THAT ELEMENT HAS ATTAINED FULL DESIGN STRENGTH. DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL TOP AND BOTTOM OF WALL IS BRACED BY FLOOR FRAMING AND

TOP OF FOOTING ELEVATION NOTED ON DRAWINGS REPRESENT CONSIDERED ENGINEERING JUDGMENTS ABOUT PROTECTION FROM FROST AND MINIMUM DEPTH TO SOILS CAPABLE OF PROVIDING DESIGN SOIL BEARING CAPACITY. UNCERTAINTIES INHERENT IN DETERMINING THE ELEVATION OF SOILS ADEQUATE TO PROVIDE DESIGN BEARING CAPACITY MAY REQUIRE FOUNDATIONS TO BE LOWERED - IN NO CASE SHALL TOP OF FOOTING BE HIGHER THAN NOTED. A GEOTECHNICAL ENGINEER SHALL VERIFY THAT SOIL AT THE FOOTING BASE IS ADEQUATE TO PROVIDE THE REQUIRED DESIGN SOIL BEARING CAPACITY.

DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF ACI 318 -14 EXCEPT WHERE MORE RESTRICTIVE REQUIREMENTS ARE NOTED.

REINFORCING CLEAR COVER SHALL BE AS NOTED BELOW UNLESS SPECIFICALLY NOTED OTHERWISE ON STRUCTURAL CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"

CONCRETE EXPOSED TO EARTH OR WEATHER #3 - #5 BARS #6 - #18 BARS CONCRETE NOT EXPOSED TO EARTH OR WEATHER WALLS - #3 THRU #11 BARS WALLS - #14 THRU #18 BARS STRUCTURAL SLABS - TOP, BOTTOM JOIST TIES AND MAIN REINFORCING - TOP, BOTTOM, SIDES BEAM TIES - TOP, BOTTOM, SIDES BEAM MAIN REINFORCING - TOP, BOTTOM, SIDES COLUMN TIFS COLUMN MAIN REINFORCING

PROVIDE (2) #5 BARS AROUND ALL OPENINGS AND (2) #5 DIAGONAL BARS AT ALL OPENING AND RE-ENTRANT CORNERS. BARS SHALL EXTEND A MINIMUM OF 24" PAST OPENING.

ALL BAR SPLICES SHALL BE CONTACT LAP SPLICED USING CLASS B TENSION LAP LENGTHS, WITH ADJACENT LAPS STAGGERED A MINIMUM OF 3'-0" UNLESS DETAILED OTHERWISE. SEE ADJACENT TABLES FOR REQUIRED LAP AND

FIELD WELDING OF ASTM A615 REINFORCING STEEL IS NOT PERMITTED. FIELD BENDING OF REINFORCING STEEL IS NOT PERMITTED EXCEPT WHERE SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS.

CORING OF COLUMNS, WALLS, BEAMS, JOISTS AND SLABS IS NOT PERMITTED. PROVIDE STEEL SLEEVES FOR ALL PENETRATIONS AT ALL LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.

DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF ACI 530 -13 AND ACI 530.1 -13 EXCEPT WHERE MORE RESTRICTIVE REQUIREMENTS ARE NOTED.

ALL CMU SHALL BE PLACED IN RUNNING BOND. UNLESS NOTED OTHERWISE PROVIDE CONTINUOUS LADDER TYPE REINFORCEMENT WITH 9 GAUGE SIDE AND CROSS RODS AT 16" OC VERTICALLY IN ALL WALLS AND PIERS, AND AT 8" OC VERTICALLY AT PARAPETS. WHERE VERTICAL BARS ARE REQUIRED, CONSTRUCT CMU WALL TO PROVIDE A CONTINUOUS UNOBSTRUCTED CELL FROM BOTTOM TO TOP OF BAR. CELL CONTAINING A SINGLE BAR SHALL NOT BE LESS THAN 3" X 4" IN PLAN AREA.

PORTIONS OF CMU CONSTRUCTION REQUIRING STRUCTURAL FILL SHALL USE GROUT ONLY. USE OF CONCRETE FILL IN CMU CONSTRUCTION IS NOT PERMITTED. WHERE CLEARANCES AND CONGESTION PERMIT, USE COARSE GROUT WITH PEA GRAVEL AGGREGATE; OTHERWISE USE FINE GROUT.

REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL VERTICAL CONTROL JOINTS IN EXTERIOR WYTHES OF PERIMETER WALLS AND FOR EXTERIOR WALLS.

PROVIDE STEEL PIPE SLEEVES AT ALL LOCATIONS WHERE PIPING PASSES THROUGH CMU WALL. WHERE BOND BEAMS INTERSECT AT WALL CORNERS AT DIFFERENT ELEVATIONS, RUN EACH BOND BEAM AROUND THE

CORNER FOR A MINIMUM OF TWO FULL BLOCK LENGTHS BEFORE TERMINATING. WHERE BOND BEAMS ADJOIN ON THE SAME WALL AT DIFFERENT ELEVATIONS, RUN BOND BEAMS PAST ONE ANOTHER A MINIMUM OF FOUR FULL BLOCK LENGTHS BEFORE TERMINATING

DESIGN, DETAILING, AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AISC 360-10, THE CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AISC 303-10, AND THE STEEL CONSTRUCTION MANUAL FOURTEENTH EDITION.

TYPICAL DETAILS INDICATE GENERAL CRITERIA FOR DESIGN AND DETAILING OF CONNECTIONS. THEY ARE NOT INTENDED TO CONVEY COMPLETE INFORMATION CONCERNING SIZE AND QUANTITY OF CONNECTORS, PLATES, ANGLES, WELDS AND SIMILAR ITEMS THAT ARE DEVELOPED THROUGH THE DESIGN OF AN INDIVIDUAL CONNECTION FOR A SPECIFIC SET OF LOADS AND COMBINATIONS. DETAILS THAT CONVEY SPECIFIC COMPONENT INFORMATION ESTABLISH MINIMUM REQUIREMENTS AND ARE NOT INTENDED TO CONVEY A COMPLETE DESIGN UNLESS NOTED.

UNLESS OTHERWISE NOTED, ALL STEEL TO STEEL FRAMING HAS BEEN SELECTED ASSUMING ATTACHMENTS FOR SHEAR ONLY, USING DOUBLE ANGLE OR DOUBLE BENT PLATE CONNECTIONS SHOP WELDED TO FRAMING MEMBER AND FIELD BOLTED TO SUPPORTING MEMBER WITH HIGH STRENGTH BOLTS IN BEARING. CONNECTIONS SHALL BE SYMMETRICAL ABOUT THE BEAM WEB. FABRICATORS PROPOSING TO USE ALTERNATIVE METHODS OF ATTACHMENT NOT SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS SHALL SUBMIT ALTERNATIVE FOR CONSIDERATION DURING BIDDING, AND SHALL BEAR ALL COSTS ASSOCIATED WITH REVIEW, ENGINEERING REDESIGN, AND APPROVAL OF ALTERNATIVE CONNECTIONS

SINGLE PLATE SHEAR TAB CONNECTIONS MAY BE USED IN LIEU OF DOUBLE ANGLE OR DOUBLE BENT PLATE

CONNECTIONS WHERE SPECIFICALLY NOTED ON DRAWINGS OR WHERE CONNECTION OF FRAMING MEMBER TO ONE SIDE OF A SUPPORT MEMBER IS MATCHED BY A SIMILAR CONNECTION ON THE OPPOSITE SIDE OF THE SAME SUPPORT MEMBER, AND WHERE BEAM SPANS DO NOT DIFFER BY MORE THAN 50% OF THE LARGER SPAN. SINGLE PLATE SHEAR TABS MAY NOT BE USED FOR CONNECTION OF FRAMING MEMBERS TO COLUMNS OR TO SPANDREL (EDGE) SUPPORT MEMBERS UNLESS SPECIFICALLY DETAILED ON DRAWINGS. CONNECTIONS FOR ALL STRUCTURAL STEEL BEAMS AND GIRDERS NOT SHOWN OR COMPLETELY DETAILED ON THE

STRUCTURAL DRAWINGS SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF WISCONSIN AND RETAINED BY THE FABRICATOR, USING THE REACTIONS SHOWN. IF NO REACTION IS SHOWN, BEAM CONNECTIONS SHALL BE DESIGNED FOR 50 % OF THE TOTAL UNIFORM LOAD CAPACITY FOR THE GIVEN MEMBER SIZE, SPAN AND GRADE OF STEEL. IN NO CASE SHALL A CONNECTION BE DESIGNED FOR A REACTION LESS THAN 12 KIPS, OR SHALL A CONNECTION USE LESS THAN 2 BOLTS OR 3/16 FILLET WELDS.

DESIGN OF STAIRS, HANDRAILS AND GUARDRAILS SHALL BE BY THE STEEL SUPPLIER.

REFER TO ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS STRUCTURAL STEEL NOT NOTED ON STRUCTURAL

 BAR JOISTS ALL STANDARD K, LH AND DLH SERIES JOISTS SHALL BE DESIGNED FOR A SHEAR CAPACITY EQUAL TO THE REACTION, AND VARYING LINEARLY TO 25% OF THE REACTION AT THE MIDSPAN OF THE JOIST. IN ORDER TO ACCOUNT FOR POTENTIAL STRESS REVERSALS THE SHEAR CAPACITY OF THE JOIST SHALL BE MAINTAINED AT THE 25% VALUE FOR A DISTANCE BEYOND THE MIDSPAN EQUAL TO MINIMUM OF ONE PANEL WIDTH, ROUNDED UP TO THE NEXT PANEL POINT.

WHERE JOISTS ARE DESIGNATED BY DEPTH. SERIES AND TOTAL LOAD / LIVE LOAD. FINAL DESIGN SHALL BE PER NOTED LOAD PLUS SELF WEIGHT OF JOIST AND IS THE RESPONSIBILITY OF THE JOIST SUPPLIER.

WHERE JOIST DESIGNATION INCLUDES "SP". FINAL DESIGN SHALL BE PER LOADING DIAGRAM PROVIDED PLUS SELF WEIGHT OF JOIST AND IS THE RESPONSIBILITY OF THE JOIST SUPPLIER.

WHERE STANDARD JOIST DESIGNATION FOR DEPTH, SERIES AND SIZE OCCURS PRIOR TO THE DESIGNATION "SP", FINAL DESIGN SHALL BE PER LOADING DIAGRAM PROVIDED PLUS SELF WEIGHT OF JOIST, SHALL AT A MINIMUM USE THE STANDARD CHORDS AND WEB MEMBERS FOR THE DEPTH AND SERIES NOTED, AND IS THE RESPONSIBILITY OF THE JOIST SUPPLIER.

UPLIFT DESIGN OF JOISTS AND BRIDGING SHALL NOT UTILIZE A 1/3 STRESS INCREASE.

WHERE BRIDGING INTERFERES WITH MECHANICAL OR OTHER TRADE INSTALLATION. CONTRACTOR MAY REMOVE BRIDGING AFTER METAL DECK IS COMPLETE IN PLACE. UPON RECIEPT OF WRITTEN APPROVAL FROM THE ENGINEER. BRIDGING REMOVED SHALL BE REPLACED AS DIRECTED BY THE ENGINEER, INCLUDING ADDITIONAL SUPPLEMENTAL BRACING AS MAY BE NECESSARY IN THE SOLE JUDGEMENT OF THE ENGINEER.

NO FIELD DRILLED HOLES OR CUTS ARE PERMITTED IN ANY JOIST CHORD OR WEB MEMBER.

MAXIMUM HANGER LOAD TO BE LOCATED ALONG BAR JOIST TOP CHORD BETWEEN PANEL POINTS IS 100 POUNDS. ALL CONCENTRATED LOADS EXCEEDING 100 POUNDS SHALL BE APPLIED AT A JOIST PANEL POINT UNLESS LOADS ARE INDICATED ON LOAD DIAGRAMS AND CHORDS HAVE BEEN SPECIFICALLY DESIGNED FOR CONCENTRATED LOADS, OR UNLESS SUPPLEMENTAL CHORD BRACING IS PROVIDED. SUPPLEMENTAL CHORD BRACING SHALL BE PROVIDED AS

JOISTS AND SEAT CONNECTIONS SHALL BE DESIGNED TO RESIST AXIAL LOADS INDICATED, OR RESIST A HORIZONTAL FORCE ACTING PARALLEL TO THE JOIST NOT LESS THAN 5% OF THE (DEAD + LIVE) LOAD REACTION, WHICHEVER IS

DETAILED ON THE DRAWINGS BY THE CONTRACTOR RESPONSIBLE FOR THE CONCENTRATED LOADS NOT APPLIED AT

WHERE FIRE PROTECTION LINE RUNS PARALLEL TO A BAR JOIST, LINES UP TO AND INCLUDING 4" MAY BE SUPPORTED BY A SINGLE JOIST. LINES LARGER THAN 4" SHALL BE HUNG BETWEEN BAR JOISTS USING TRAPEZE HANGER. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, MAXIMUM SPACING OF HANGERS ON ANY SIZE FIRE PROTECTION LINE MAY NOT BE MORE THAN 15'.

METAL DECKING

AND TEMPERATURE CONSTRAINTS.

PROVIDE ANGLE SUPPORTS FOR METAL DECK AT ALL COLUMN FACES WHERE SUPPORT IS REQUIRED, AND IS NOT PROVIDED BY MEMBERS FRAMING TO COLUMN. ANGLE FRAMING SHALL BE A MINIMUM OF L2x2x3/16. NO LOADS FROM ARCHITECTURAL, MECHANICAL, ELECTRICAL OR PLUMBING ITEMS, SINGLY OR IN AGGREGATE, IN EXCESS OF 25 POUNDS SHALL BE HUNG FROM METAL ROOF DECK IN ANY 4 SQUARE FOOT AREA. LOADS EXCEEDING THIS LIMIT REQUIRE SUPPLEMENTAL FRAMING ATTACHED DIRECTLY TO STRUCTURAL FRAMING.

SPLICES AT CONTINUOUS DIAPHRAGM CHORD ANGLES SHALL BE FULL PENETRATION WELDS UNLESS NOTED. POST-INSTALLED ANCHORAGE ALL POST-INSTALLED ANCHORS MUST BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS INCLUDING, BUT NOT LIMITED TO, DRILL TYPE, HOLE CLEANING, INSTALLATION TORQUE,

ALL PERSONNEL INSTALLING POST-INSTALLED ANCHORS SHALL BE TRAINED BY THE MANUFACTURER ON PROPER INSTALLATION TECHNIQUE. CONTRACTOR SHALL COORDINATE ANY ON-SITE TRAINING WITH THE ANCHOR MANUFACTURER. TRAINING DOCUMENTATION SHALL BE AVAILABLE UPON REQUEST.

WHEN A SPECIFIC PRODUCT AND MANUFACTURER IS REFERENCED IN THE CONTRACT DOCUMENTS. THAT SPECIFIC PRODUCT SHALL BE USED UNLESS NOTED OTHERWISE. BELOW CONTAINS A LIST OF PRE-APPROVED ANCHORS FOR USE AS AN EQUAL (WHERE "OR EQUAL" IS INDICATED) OR WHERE POST-INSTALLED ANCHORAGE IS REFERRED TO IN THE DOCUMENTS GENERICALLY (E.G. "ADHESIVE ANCHOR").

PROVIDE SPECIAL INSPECTION FOR ALL POST-INSTALLED ANCHORS PER THE EVALUATION REPORT OR AS INDICATED OTHERWISE. THE ANCHOR MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT DURING THE INITIAL INSTALLATION OF EACH TYPE OF ANCHOR TO REVIEW AND APPROVE THE CONTRACTOR'S INSTALLATION PROCEDURES.

PRIOR TO INSTALLING POST-INSTALLED ANCHORS, CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF OF 2,500 PSI AND BE 21 DAYS OLD. ADHERE TO MANUFACTURER'S REQUIREMENTS FOR REQUIRED INSTALLATION TEMPERATURES AND HOLE CONDITION (WET, DRY, SATURATED).

EXPANSION ANCHORS FOR USE IN CONCRETE INCLUDE: HILTI: KWIK-BOLT TZ SIMPSON STRONG-TIE: STRONG-BOLT 2 DEWALT/POWERS: POWER-STUD+SD2

SCREW ANCHORS FOR USE IN CONCRETE INCLUDE: HII TI: HUS-F7 SIMPSON STRONG-TIE: TITEN HD DEWALT/POWERS: SCREW-BOLT+

ADHESIVE ANCHORS FOR USE IN CONCRETE INCLUDE: HILTI: HIT-RE 500 V3 OR HIT-HY 200 SIMPSON STRONG-TIE: SET-XP OR AT-XP DEWALT/POWERS: PURE110+ OR AC200+ GOLD

DO NOT USE ADHESIVE ANCHORS IN OVERHEAD APPLICATIONS UNLESS SPECIFICALLY INDICATED ON THE CONTRACT DOCUMENTS. FOR ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY INCLINED, INSTALLER SHALL HOLD AN ACTIVE ACI/CRSI ISSUED ADHESIVE ANCHOR INSTALLER CERTIFICATION IN ADDITION TO TRAINING BY THE ANCHOR MANUFACTURER. CONTINUOUS SPECIAL INSPECTION FOR ADHESIVE ANCHORS INSTALLED AT THESE ANGLES IS REQUIRED. THE SPECIAL INSPECTOR SHALL PROVIDE A REPORT TO THE STRUCTURAL ENGINEER OF RECORD INDICATING THAT THE MATERIALS USED AND INSTALLATION PROCEDURES CONFORM WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

ALL OTHER POST-INSTALLED ANCHORS SHALL HAVE PERIODIC SPECIAL INSPECTION AT A MINIMUM UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED IN THE SPECIFIC ANCHOR'S EVALUATION REPORT.

INSTALLATION OF POST-INSTALLED ANCHORAGE INTO GROUTED CELLS SHALL BE MADE ONCE GROUT HAS REACHED

PERIODIC SPECIAL INSPECTION IS REQUIRED FOR ALL POST-INSTALLED ANCHORAGE INTO MASONRY. IF MORE STRINGENT REQUIREMENTS ARE INDICATED IN THE SPECIFIC ANCHOR'S EVALUATION REPORT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.

EXPANSION ANCHORS TO SOLID OR GROUTED CMU INCLUDE: HILTI: KWIK-BOLT 3 SIMPSON STRONG-TIE: STRONG-BOLT 2 DEWALT/POWERS: POWER-STUD+SD1

SCREW ANCHORS TO SOLID OR GROUTED CMU INCLUDE: HILTI: KWIK-HUS-EZ SIMPSON STRONG-TIE: TITEN HD

DEWALT/POWERS: SCREW-BOLT+

ADHESIVE ANCHORS TO SOLID, GROUTED, OR HOLLOW CMU AND UNREINFORCED BRICK INCLUDE: HII TI: HIT-HY 70 SIMPSON STRONG-TIE: SET-XP (CMU ONLY) SIMPSON STRONG-TIE: AT (BRICK ONLY) DEWALT/POWERS: AC100+ GOLD

 COLD-FORMED METAL FRAMING COLD-FORMED METAL FRAMING IS PERFORMANCE BASED, AND SHALL BE COMPLETELY DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WISCONSIN AND RETAINED BY THE COLD-FORMED SUPPLIER. DESIGN SHALL BE SUBJECT TO THE LIMITATIONS NOTED. COLD-FORMED MEMBERS NOTED SHOULD BE CONSIDERED MINIMUM SIZES. CONNECTION DETAILS INDICATE INTENT FOR CONNECTION BEHAVIOR ONLY.

FOR RIGID VENEER, LIMIT THE MAXIMUM SIMPLE SPAN LATERAL DEFLECTION OF COLD-FORMED METAL PROVIDING LATERAL SUPPORT TO SPAN/600 - LIMIT THE MAXIMUM CANTILEVER LATERAL DEFLECTION TO CANTILEVER SPAN/360 AT THE WINDOW HEAD AND SILL. IN ALL CASES, THE COLD-FORMED METAL FRAMING ALONE SHALL TAKE ALL THE LATERAL LOAD - NO COMPOSITE ACTION WITH SHEATHING, BRICK, CMU, STONE, OR ANY RIGID VENEER MATERIAL

IS PERMITTED FOR FLEXIBLE VENEER, LIMIT THE MAXIMUM SIMPLE SPAN LATERAL DEFLECTION OF COLD-FORMED METAL PROVIDING LATERAL SUPPORT TO SPAN/360 - LIMIT THE MAXIMUM CANTILEVER LATERAL DEFLECTION TO CANTILEVER SPAN/240 AT THE WINDOW HEAD AND SILL. IN ALL CASES. THE COLD-FORMED METAL FRAMING ALONE SHALL TAKE ALL

LIMIT VERTICAL DEFLECTION OF STUD LINTEL ASSEMBLIES TO 1/8 INCH AT THE HEAD OF WINDOWS OR OPENINGS. HEADERS AND JAMBS AT OPENING MAY CONSIST OF BUILT-UP COLD-FORMED METAL FRAMING OR HOT-ROLLED STEEL SECTIONS AS DETERMINED BY THE COLD-FORMED FRAMING DESIGNER. SOME CONDITIONS MAY NECESSITATE HOT-ROLLED SECTIONS, WHICH ARE TO BE SUPPLIED AND INSTALLED BY THE COLD-FORMED METAL CONTRACTOR.

THE LATERAL LOAD - NO COMPOSITE ACTION WITH SHEATHING MATERIAL IS PERMITTED.

D A	BBREVIATIONS:													•	•
	ANCHOR BOLT (ROD) AIR HANDLING UNIT	LLBB LLH	LONG LEG BACK TO BACK LONG LEG HORIZONTAL					ROOF :	SLOPE						
	ALTERNATE	LLH LLV	LONG LEG HORIZONTAL LONG LEG VERTICAL	ZONE	WIND	0° T		7° TC) 27°	27° T	∩ 45°	ZONE	WIND		
	APPROXIMATELY	LP	LOW POINT	ZONE	AREA (SF)) 21			L ZOINE	AREA (SF)		
	ARCHITECTURAL	LSB	CLASS 'B' BAR LAP			(+)	(-)	(+)	(-)	(+)	(-)			(+)	(-)
	BOTTOM OF FOOTING	LSL	LAMINATED STRAND LUMBER	1	10	10.5	25.9	14.9	23.7	23.7	25.9	4	10	25.9	28.1
	BOTTOM OF STEEL	LTWT	LIGHTWEIGHT	<u>'</u>	-			ļ		-		<u> </u>			-
	BOTTOM CHORD	LVL	LAMINATED VENEER LUMBER	1	20	9.9	25.2	13.6	23.0	23.0	24.6	4	20	24.7	26.9
	BUILDING BEARING	LW MAX	LONG WAY	1	50	9.0	24.4	11.9	22.2	22.2	22.8	4	50	23.2	25.4
	BETWEEN	MECH	MAXIMUM MECHANICAL		400			 		-					-
	CATCH BASIN	MFR	MANUFACTURER	1	100	8.3	23.7	10.5	21.5	21.5	21.5	4	100	22.0	24.2
	CAST-IN-PLACE	MIN	MINIMUM	2	10	10.5	43.5	14.9	41.3	23.7	30.3	5	10	25.9	34.7
	CONTROL JOINT	MISC	MISCELLANEOUS	2	20	9.9	38.8	13.6	38.0	23.0	29.0	_	20	24.7	32.4
	CENTER LINE	MO	MASONRY OPENING	Z	20	9.9	30.0	13.0	30.0	23.0	29.0	5	20	24.7	32.4
	CLEAR (DISTANCE)	MS	MIDDLE STRIP	2	50	9.0	32.7	11.9	33.6	22.2	27.2	5	50	23.2	29.3
	CONCRETE MASONRY UNIT	NA	NOT APPLICABLE	2	100	8.3	28.1	10.5	30.3	21.5	25.9	5	100	22.0	26.9
	COLUMN CONCRETE	NIC NOM	NOT IN CONTRACT					1		-					
	CONTINUOUS	NTS	NOMINAL NOT TO SCALE	3	10	10.5	65.4	14.9	61.0	23.7	30.3		ADJUSTMEN	T FACTO	₹
	COLUMN STRIP	OC	ON CENTER	3	20	9.9	54.2	13.6	57.1	23.0	29.0	MEAN		EXPOSU	?F
	DEFORMED BAR ANCHOR	OD	OUTSIDE DIAMETER					 		-		ROOF	:	1	
	OR DECK BEARING ANGLE	OF	OUTSIDE FACE	3	50	9.0	39.3	11.9	51.8	22.2	27.2	HEIGH	T B		С
	DECK BEARING ELEVATION	OPNG	OPENING	3	100	8.3	28.1	10.5	47.9	21.5	25.9	(53)	1.00		1.21
	DEMOLITION / DEMOLISH	OPP	OPPOSITE		<u> </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>		4.00	$\overline{}$	4.00
	DIAMETER	OSL	OUTSTANDING LEG		(-) WIND PI	RESSURE	ON ROOF	=			20	1.00	<u> </u>	1.29
	DEAD LOAD DRAWING	PC PCI	PRECAST / PRESTRESSED POUNDS PER CUBIC INCH		'	,	VERHANO					25	1.00)	1.35
	EDGE OF DECK	PDF	POUNDS PER CUBIC FOOT					ROOF				30	1.00	$\overline{}$	1.40
	EDGE OF SLAB	PL	PLATE	LOCATION	WIND			1				30	1.00	<u> </u>	
	EACH FACE	PLBG	PLUMBING		AREA (SF)	0° T	O 7°	7° TC) 27°	27° T	O 45°	35	1.05	5	1.45
	EXPANSION JOINT	PLF	POUNDS PER LINEAR FOOT			ZONE 2	ZONE	ZONE 2	ZONE	ZONE 2	ZONE	40	1.09		1.49
	ELEVATION	PROJ	PROJECTION	01/55/11110	10		61.4	1		-			 		
	ELECTRICAL	PSF	POUNDS PER CUBIC FOOT	OVERHANG	10	37.2	61.4	48.2	80.9	43.7	43.7	45	1.12	2	1.53
	ENGINEER EQUAL	PSI PT	POUNDS PER SQUARE INCH PRE (POST) -TENSIONED	OVERHANG	20	36.6	48.1	48.2	73.0	42.4	42.4	50	1.16	6	1.56
	EDGE STRIP	RD	ROOF DRAIN	OVERHANG	F0	25.7	30.7	48.2	62.6	40.7	40.7	55	1.19	$\overline{}$	1.59
	EACH WAY	REF	REFERENCE	OVERHANG	50	35.7	30.7	40.2	02.0	40.7	40.7	55	1.18	<u> </u>	1.59
	EACH WAY EACH FACE	REINF	REINFORCE(D)	OVERHANG	100	35.1	17.4	48.2	54.7	39.4	39.4	60	1.22	2	1.62
	EXPANSION	REM	REMAINDER	NOTES:	•	•	•	•		•	•	•	'	•	
	EXTERIOR	RTU	ROOF TOP UNIT	1) BASED ON S	IMDLIEIED DD	JVICIONIC	EOD ENG	N OSED D	ECHIAD	CUADED E				ICUT I E	CC TLIANI
9)	EXISTING	SC	SLIP CRITICAL		O 60'-0" (ASCE										
	FLOOR DRAIN	SCHED SHT	SCHEDULE SHEET	· · · · · · · · · · · · · · · · · · ·	ABLE VALUES	,			,	,	,				
	FLANGE FLOOR	SIM	SIMILAR		E FACTOR IF (, ,		0	11121(1112)		011107	55.
	FOUNDATION	SL	SNOW LOAD												
	FOOTING	SLBB	SHORT LEGS BACK TO BACK	2) (+) = POSITI\											
	FRAMING	SOG	SLAB-ON-GRADE		VE (OUTWARD) PRESSU	IRE.								
	FUTURE	SPA	SPAC(ES)(ED)(ING)	SF = SQUAR	E FEET										
	FIELD VERIFY	SPEC	SPECIFICATION(S)	2) FOD FFFFOT			T 00F01	FIGALLYI	ICTED IN		TE OD U		OT VALUE OF	WIND DE	DECCUDE!
	GAUGE	SQ	SQUARE	3) FOR EFFECT	TED. DO NOT				,						
	GALVANIZED CENERAL CONTRACTOR	SS	STAINLESS STEEL	300 HON NC	, I LD. DO NOT	UUL 1/3 3	TINEUU II	NONLAGE	OIX WEW	יחרוז חב9		VALUES	AO I LU IN I I	OIADLE	•
	GENERAL CONTRACTOR GLUE-LAMINATED BEAM(S)	STD SW	STANDARD SHORT WAY	4) LENGTH NO	TED "a" = 5.0 F	EET									
	GIRDER TRUSS	TF	TOP OF FOOTING	1, ==	_ = = = = = = = = = = = = = = = = = = =									× 0	
	HOOK	TL	TOP OF LEDGE										3/2/3/	$\langle \times \rangle$	
	HODIZONITAL	· -	TOD OF DIED			3									

TOP OF PIER

TOP OF STEEL

TOP OF WALL

TOP CHORD

TOTAL LOAD

TYPICAL

VERTICAL

WIND LOAD

VERIFY IN FIELD

WORKING POINT

UNO

VWA

WWF

TENSION CONTROL

THICK (NESS) (ENED)

UNLESS NOTED OTHERWISE

VERIFY WITH ARCHITECT

WELDED WIRE FABRIC

ARGEST VALUE OF WIND PRESSURE LUES NOTED IN THIS TABLE. ROOF SLOPE 1/2 PER FT OR LESS HIP ROOF ROOF SLOPE 7°< L <27°

COMPONENTS AND CLADDING WIND PRESSURES (PSF)

		CL		OATE B" LAP				_		psi)		
	TEI	NSION D	EVELOP	MENT LI	ENGTH		CL	ASS "B"	TENSION	N LAP LE	NGTH	
BAR	CLR CO	V = .75"	CLR (COV = 1"	CLR CC)V = 1.5"	CLR CC)V = .75"	CLR C	OV = 1"	CLR CC	V = 1.5"
SIZE	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS
#3	12	13	12	13	12	13	13	17	13	17	13	17
#4	17	22	13	17	13	17	22	28	17	23	17	23
#5										33	22	28
#6	t6 33 43 27 35 20 26 43 56 35 46 26 34											
#7	53 69 44 57 33 43 69 90 57 74 43 55											
#8	66	86	55	72	41	54	86	111	72	93	54	70
#9	80	104	67	87	51	66	104	135	87	113	66	86
#10	96	125	81	106	62	81	125	162	106	137	81	105
#11	113	146	96	125	74	97	146	190	125	162	97	125
1)	1b	ON: a. GRAD b. NORM c. FOR I	DE 60 RE MAL WEI BARS IN	GHT CO	NCRETE AND SLA	NBS.						
2)	TOP B	ARS ARE	HORIZ	ONTAL B	ARS WIT	TH MORE	E THAN 1	12" OF				

		CL		-			DEVEL(EDULE	_		psi)		
	TEI	NSION D	EVELOP	MENT LI	ENGTH		CL	ASS "B"	TENSIO	N LAP LE	NGTH	
BAR	CLR CC	V = .75"	CLR (COV = 1"	CLR CC	V = 1.5"	CLR CO	V = .75"	CLR C	OV = 1"	CLR CC	V = 1.5"
SIZE	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS
#3	12	12	12	12	12	12	12	15	12	15	12	15
#4	15	19	12	15	12	15	19	24	15	20	15	20
#5	21	28	17	22	15	19	28	36	22	29	19	24
#6	29	37	24	31	17	22	37	48	31	40	22	29
#7	46	60	38	50	28	37	60	78	50	64	37	48
#8	57	74	48	62	36	47	74	96	62	80	47	60
#9	69	90	58	76	44	57	90	117	76	98	57	74
#10	83	108	70	92	54	70	108	140	92	119	70	91
#11	98	127	83	108	64	84	127	165	108	141	84	109
	DULE N											
	1a. 1b.	GRADE NORMA FOR BA	L WEIGH	HT CONC	RETE.							
-/	TOP BAR		IORIZON	ITAL BAF			THAN 12"	OF				
					MULTIPL	Y TABLE	D VALUI	ES BY 1.	33.			

HIS SCHEDULE IS PROVIDED FOR THE CONVENIENCE OF THE

DRAWINGS SHALL CLEARLY INDICATE ALL REQUIRED LAP LENGTHS.

CONTRACTOR AND IS NOT INTENDED TO COVER ALL SITUATIONS. SHOP

CONCRETE BELOW THE BARS.

3) FOR LIGHTWEIGHT CONCRETE, MULTIPLY TABLED VALUES BY 1.33.

CONTRACTOR AND IS NOT INTENDED TO COVER ALL SITUATIONS. SHOP

DRAWINGS SHALL CLEARLY INDICATE ALL REQUIRED LAP LENGTHS.

THIS SCHEDULE IS PROVIDED FOR THE CONVENIENCE OF THE

3D VIEW NOTE: 3D VIEW IS FOR REFERENCE ONLY

APPROX

ARCH

BTWN

CONC

CONT

DEMO

EWEF

FTG

FUT

GALV

GLULAM

HORIZONTAI

HEATING, VENTILATING.

AND AIR CONDITIONING

INSIDE DIAMETER

KNOCKOUT PANEL

INSIDE FACE

INTERIOR

ANGI F

POUNDS

LIVE LOAD

HEADED WELDED STUD(S)

JOIST BEARING ELEVATION

KIPS PER SQUARE INCH

HIGH POINT

EXTG or (e)

DIA

STRUCTURAL SHEET INDEX S001 STRUCTURAL NOTES

S100 PLANS S800 FOUNDATION DETAILS S810 FRAMING DETAILS

DNSTRUCTION DOCUMENTS

STRICT OF MIL SCHOOL DI HARMONY

ONSTRUCTION DOCUMENTS PACKAGE:

W20 CJ, TYP 11'-4" 32'-0" ||||-|||-||TL= 99'-4" TL= 99'-4" TW = 100'-0" TW = 100'-0" 99'-4" TYP 2 99'-4" TL= 99'-4"-----TW = 100'-0" 96'-0" TYP 98'-0" 98'-0" 99'-4" 99'-4"

43'-4"

1 FOUNDATION PLAN

- OTHERWISE. TOP OF FOOTING ELEVATION = 96'-0" UNLESS NOTED OTHERWISE. TOP OF WALL = 99'-4" UNLESS NOTED OTHERWISE.
- 3. TYPICAL WHERE SLAB-ON-GRADE ABUTS WALL OR COLUMN, PROVIDE 1/4" x SLAB ELEVATION.
- EXISTING UNDOCUMENTED FILL AND UNSUITABLE BEARING SOIL. TYPICAL DETAILS THAT APPLY TO PLAN INCLUDE: 1/S800 SLAB-ON-GRADE JOINT DETAIL
- 2/S800 CONCRETE WALL JOINT DETAIL 3/S800 CORNER REINFORCEMENT DETAIL

FOUNDATION KEY NOTES (1) NON BEARING CMU WALL.

COORDINATE THICKENED SLAB LOCATIONS WITH ARCH DRAWINGS (2) G.C. MAY POUR CMU WALL FOOTINGS CONTINUOUS THROUGH OPENINGS AS A

CONTRACTOR OPTION.

34'-8"

FOUNDATION PLAN NOTES 1. FINISH SLAB ELEVATION = 100'-0". LOCAL DATUM UNLESS NOTED

- 2. SLAB-ON-GRADE TO BE 4" THICK WITH 5 LB./ CU YD. MACRO POLYPROPYLENE SYNTHETIC FIBERS (REFER TO SPECIFICATION) VAPOR BARRIER ON 1/2" CHOKER COURSE OVER 6" COARSE STONE BASE UNLESS NOTED OTHERWISE.
- (SOG THICKNESS) ISOLATION FILLER STRIP. SET STRIP 1/4" BELOW FINISH 4. OVER-EXCAVATION PER DETAIL 4/S800 MAY BE REQUIRED TO REMOVE
- - 5/S800 FOOTING STEP DETAIL 6/S800 WALL FOOTING OVER LATERAL

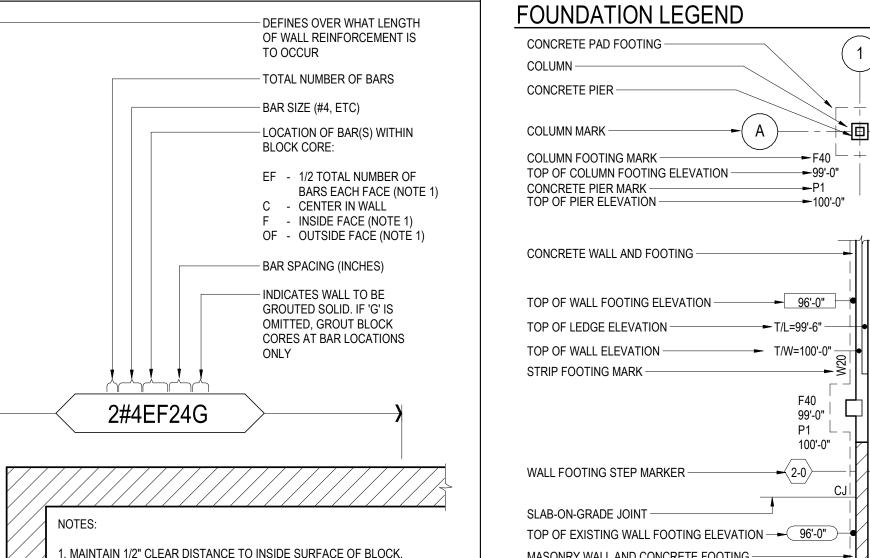
MASONRY WALL VERTICAL REINFORCEMENT LEGEND DEFINES OVER WHAT LENGTH

2. IF NO REINFORCEMENT SYMBOL INDICATED ON PLAN, WALL IS TO

3. PROVIDE ADDITIONAL REINFORCEMENT WHEN NOTED IN DETAILS.

WITH MATCHING DOWELS TO CONCRETE.

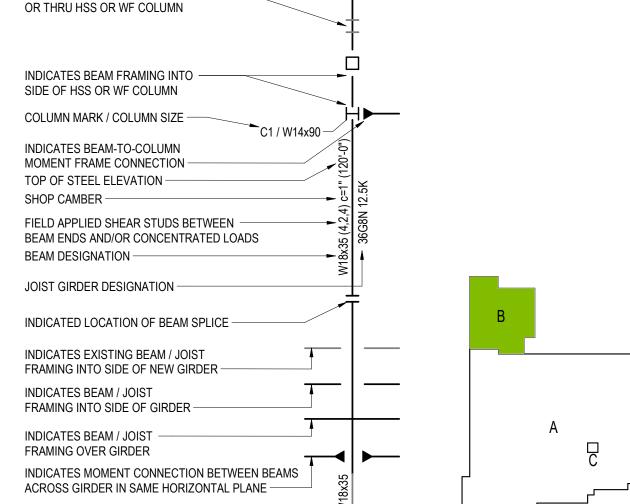
HAVE GROUTED CELL WITH #5 VERTICAL BARS CENTERED AT 96" OC.



STRUCTURAL STEEL LEGEND

MEMBER SIZES OR MARKS WITH A -

PREFIX OF "(e)" ARE EXISTING ELEMENTS



TOP OF BOND BEAM = 110'-8"

4 TYP AT

1 DESIGN STEEL JOIST IN HATCHED AREAS FOR (2) 500 LB CONCENTRATED LIVE

9 BOND BEAM REINFORCEMENT IN CMU AT EXTERIOR WALLS AND CORRIDOR

 $\stackrel{\frown}{3}$ GROUT CMU SOLID FROM TOP OF BOND BEAM TO UNDERSIDE OF ROOF DECK.

1/2" DIA. X 0'-4" LONG HEADED WELDED STUDS INTO CMU AT 24" OC.

PROVIDE PL1/4"X (WALL WIDTH-1") x CONT. GROUTED SOLID IN TOP CMU WALL,

REINFORCEMENT. DO NOT PROVIDE CORNER BARS.

WALLS SHALL SHALL NOT BE CONTINUOUS INTO CMU FIREWALL BOND BEAM

COORDINATE LOCATION WITH JOIST SUPPLIER. REFER TO DETAIL 14/S810 FOR

LOADS APPLIED AT ANY LOCATION ALONG THE TOP CHORD. G.C. TO

BEAMS

15'-0 3/8"

INDICATES BEAM FRAMING OVER — OR THRU HSS OR WF COLUMN

TOP OF BOND

BEAM = 110'-8"

/ N <u>13 N / / /</u>

ROOF DECKING SHALL BE 1 1/2" x 22GA WIDE RIB PRIME PAINTED METAL ROOF DECK FASTENED TO

SUPPORTING STRUCTURE USING 36/4 PATTERN OF ANY OF THE ATTACHMENT METHODS SHOWN IN

NOTED OTHERWISE. WHERE JOIST BEARING IS NOT AT COURSING, PROVIDE PARTIAL HEIGHT BLOCK

GROUTED SOLID TO TOP OF BOND BEAM. WIDTH OF BOND BEAM TO MATCH WALL THICKNESS AND IS

LAP ALL BOND BEAM STEPS A MINIMUM OF 24". CONTINUE BOND BEAM ELEVATION AT END WALLS PER

MASONRY BOND BEAM CORNER REINFORCEMENT. REFER TO 3/S810 FOR KEY CMU CONTROL JOINTS

TO RESIST UPLIFT LOADING. PROVIDE DIAGONAL X-BRIDGING WHERE INDICATED AND AS REQUIRED.

. PROVIDE ANGLE FRAME SUPPORT AT ALL ROOF OPENINGS IN ACCORDANCE WITH DETAIL 7/S810. AT

8. ALL BAR JOISTS TO BE DESIGNED FOR A NET UPLIFT LOAD OF 0.6*WL = 15 PSF IN ADDITION TO

9. PROVIDE (1) MC6X15.1 AND (1) C12X20.7 BELOW ROOFTOP UNIT CURB PER DETAIL 10/S810 AND

REINFORCE JOIST AS NEEDED AT CURB LOCATION IN ACCORDANCE WITH DETAILS 9/S810. 10. BRACE TOP OF NON-LOAD BEARING CMU WALLS IN ACCORDANCE WITH DETAILS 16/S810 AND 17/S810.

TO RUN CONTINUOUS THROUGH CONTROL JOINTS. PROVIDE CORNER BARS WHERE THEY OCCUR AND

 $I_p = 0.183 \text{ in}^4/\text{ft}$ $S_n = 0.192 \text{ in}^3/\text{ft}$

DETAIL 6/S810 WITH #10 TEK SIDELAP FASTENERS AT 18" OC. PROVIDE DECK WITH THE FOLLOWING

THICK = 0.0295 in $I_p = 0.155 \text{ in}^4/\text{ft}$ $S_p = 0.186 \text{ in}^3/\text{ft}$

PROVIDE 8" TALL BOND BEAM WITH (2) #5 CONTINUOUS AT JOIST BEARING ELEVATIONS UNLESS

4. UNLESS NOTED OTHERWISE ALL CMU WALLS SHALL HAVE #5 VERTICAL BARS WITH MATCHING

REFER TO 1/S810 FOR TYPICAL REINFORCED CMU WALL CONSTRUCTION. REFER TO 2/S810 FOR

6. JOIST SUPPLIER TO PROVIDE HORIZONTAL BRIDGING AT FIRST BOTTOM CHORD PANEL POINT. JOIST SUPPLIER TO PROVIDE CONTINUOUS TOP AND BOTTOM CHORD HORIZONTAL BRIDGING AS REQUIRED

(e)L3X3

JOIST BRG = 112'-8"

ROOF FRAMING KEY NOTES

CONNECTION DETAILS.

(e)10K1

JOIST BRG = 112'-8"

12 18 14 A G (e) F3X3

<u></u> (1)#5C48 }

JOIST BRG = 112'-8"

SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN NOTES

1. TOP OF STEEL IS AS NOTED ON DRAWINGS.

ROOF FRAMING PLAN

 $F_v = 33 \text{ KSI}$

INSTALL DECK UNDER 3 OR MORE SPAN CONDITIONS.

DOWELS TO CONCRETE CENTERED IN CELLS AT 96" OC.

SMALLER OPENINGS PROVIDE REINFORCEMENT PER DETAIL 8/S810.

GRAVITY VERTICAL LOADS REQUIRED BY THE BAR JOIST DESIGNATION.

32'-0"

MASONRY WALL AND CONCRETE FOOTING -

MEMBER SIZES OR MARKS WITH A -

PREFIX OF "(e)" ARE EXISTING ELEMENTS

WITH (2) #5 BARS GENERAL NOTES:

1. UNLESS NOTED OTHERWISE ALL LINTELS ARE DROPPED LINTELS PLACED AT OPENING HEIGHT OF WALL. REFER TO ARCH FOR OPENING HEIGHTS. STEEL LINTEL NOTES:
1. PROVIDE MINIMUM 8" BEARING AT EACH END OF LINTEL, UNO. 2. CENTER LINTELS IN WALL STRUCTURAL WALLS UNO.

3. BOTTOM PLATES WHERE CALLED FOR SHALL EXTEND FULL LENGTH OF LINTEL. 4. WELD MULTIPLE STEEL SECTION LINTELS INTO A SINGLE UNITS. 5. SEE DETAIL 5/S810 FOR LINTEL BEARING REQUIREMENTS. 6. LINTELS IN EXTERIOR WALLS ARE TO BE GALVANIZED. LINTELS IN INTERIOR

1. PROVIDE MINIMUM 8" BEARING AT EACH END OF LINTEL. (RUN REINFORCEMENT 16" PAST BEARING POINT OF LINTEL UNO, BREAK FACE SHELLS AS REQUIRED). 2. BOND BEAM TO MATCH WIDTH OF CMU WALL LINTEL IS IN. 3. GC TO PROVIDE SHORING BENEATH LINTEL AS REQUIRED TILL LINTEL REACHES FULL STRENGTH.

CONTINUOUS FOOTING SCHEDULE

LOOSE STEEL LINTEL SCHEDULE

PL 3/8 X 4 1/2 ON PL 3/8 X 3 1/2

PL 3/8 X 7 1/2 ON PL 3/8 X 3 1/2

(2) L 3 1/2 X 2 1/2 X 1/4 LLV

(2) L 3 1/2 X 3 1/2 X 1/4

(2) L 4 X 3 1/2 X 5/16 LLV

W8 X 10 WITH PL 5/16 X 9

W8 X 15 WITH PL 5/16 X 9

W8 X 10 WITH PL 5/16 X 11

W8 X 15 WITH PL 5/16 X 11

(3) L 3 1/2 X 3 1/2 X 1/4

1/4" PL

ST 3 X 6.25

WT 4 X 10.5

WT 7 X 11

WT 7 X 15

1) LINTELS CALLED OUT IN THIS SCHEDULE ARE FOR NON-LOAD BEARING MASONRY WALLS.

6) GROUT BLOCK CORES SOLID MINIMUM (1) COURSES BELOW LINTEL BEARING.

EXTERIOR MISC VENEER LINTEL SCHEDULE NOTES:

1. THIS SCHEDULE APPLIES AT ALL OPENINGS IN EXTERIOR VENEER (BRICK, STONE, ETC.).

LINTEL SCHEDULE

SECTION

3/16 3-12

3. REFER TO ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.

4) BOTTOM PLATES UNDER WIDE FLANGE SHAPES SHALL BE EXTENDED FULL LENGTH OF LINTEL.

LOOSE LINTEL SCHEDULE (BRICK VENEER)

LINTEL SIZE

L6x6x5/16 (LLV)

L6x6x3/8 (LLV)

REMARKS

SECTION

⅃∟

1. B = BOTTOM, T = TOP, LW = LONG WAY, SW = SHORT WAY, EW = EACH WAY.

2. ALL REINFORCEMENT BARS TO BE BOTTOM BARS UNLESS NOTED

CLEAR MASONRY

OPENING WIDTH

AT FIRE EXTINGUISHER CABS

AND DRINKING FOUNTAINS

TO 7'-0"

TO 9'-0"

TO 5'-0"

TO 7'-0"

TO 9'-0"

TO 5'-0"

TO 7'-0"

TO 9'-0"

TO 7'-0"

TO 10'-0"

TO 5'-0"

TO 7'-0"

TO 10'-0"

PROVIDE MINIMUM 8" BEARING AT EACH END OF LINTEL.

3) CENTER LINTELS IN WALL UNLESS NOTED OTHERWISE.

5) WELD LINTEL COMPONENTS INTO SINGLE UNIT.

2. BEAR VENEER LINTEL 8" MINIMUM EACH END.

DESCRIPTION

W8X18

WITH 5/16" X0'-7"

BOTTOM PLATE

16" HIGH BOND BEAM

WITH (2) #5 BARS

8" HIGH BOND BEAM

WALLS ARE TO BE PAINTED STEEL.

4. ALL REINFORCING STEEL TO BE 60,000 PSI.

5. PROVIDE 2" COVER FOR ALL REINFORCING STEEL.

CMU BOND BEAM LINTEL NOTES:

MAX OPENING

(CLEAR DISTANCE BETWEEN WINDOW/DOOR JAMBS)

8'-0" & LESS

8'-0" - 9'-0"

THICKNESS

ALL

FOOTING REINFORCEMENT

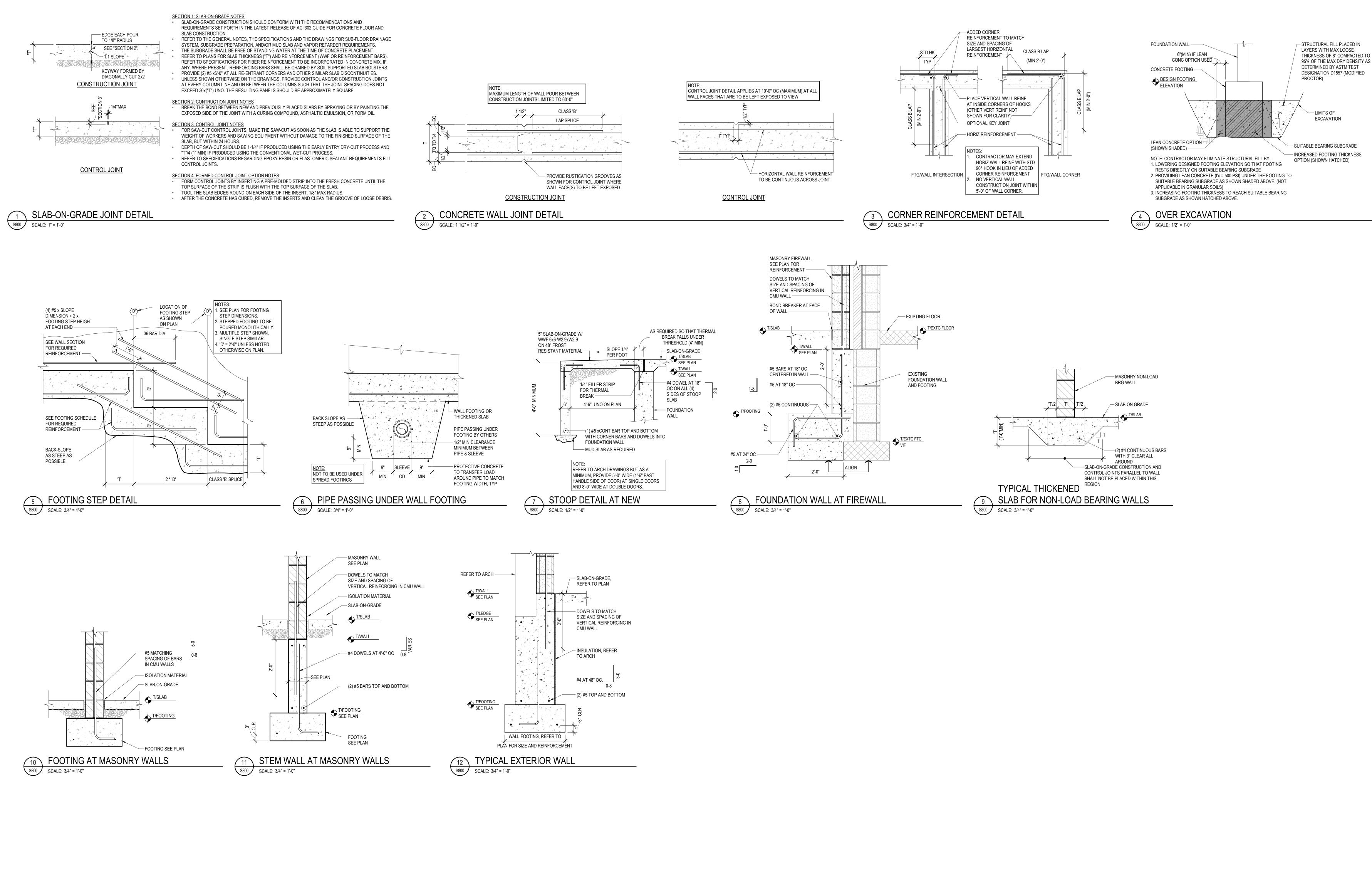
(2) #5; B, CONT

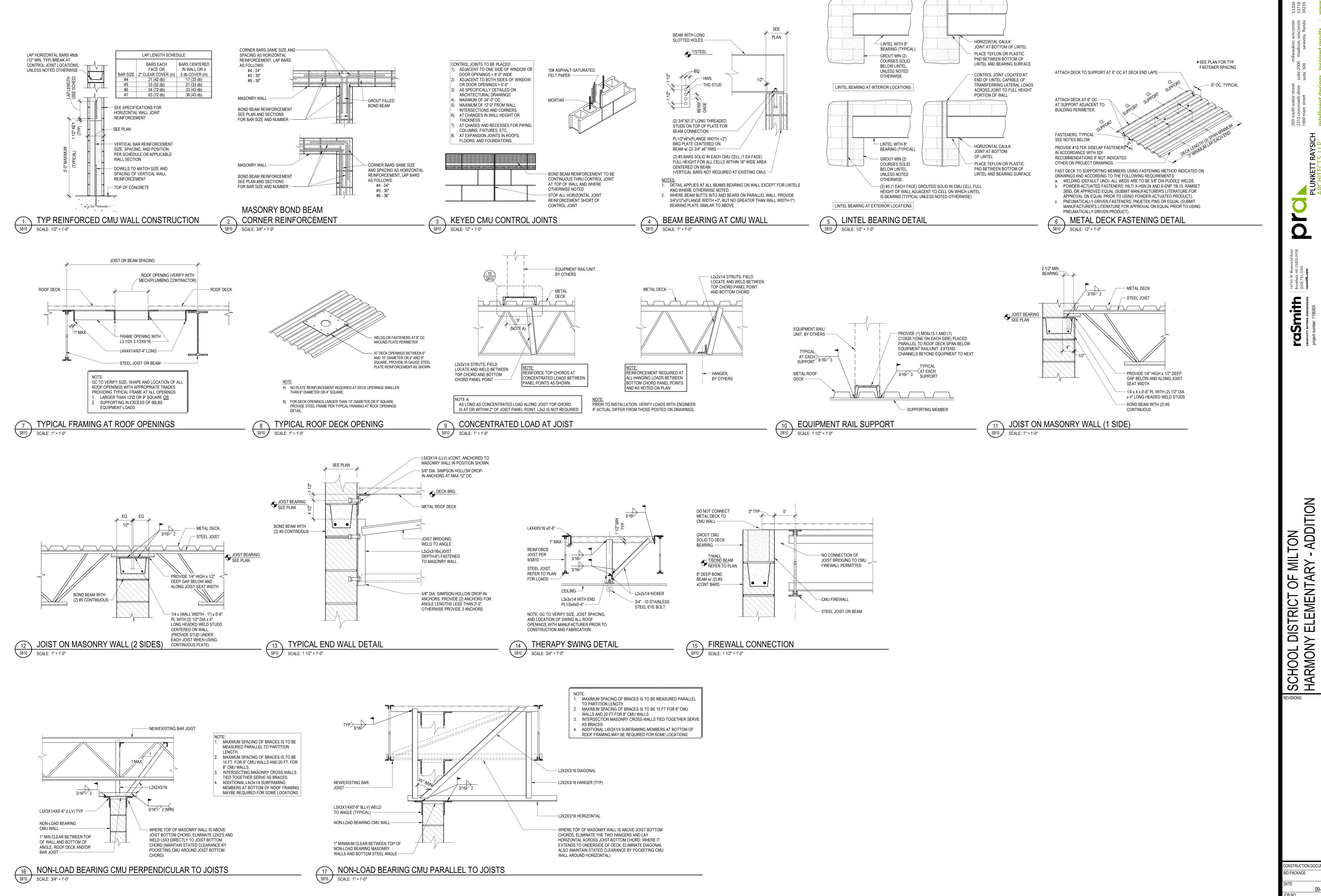
REMARKS

3/16 1 1/2 - 8

3/16 1 1/2 - 8







- CONTROL JOINT LOCATED AT END OF LINTEL CAPABLE OF TRANSFERRING LATERAL LOADS ACROSS JOINT TO FULL HEIGHT

PORTION OF WALL

ONSTRUCTION DOCUMENTS

NOTE: ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRA	AWINGS.	
SYM. ABBR. IDENTIFICATION	SYM. ABBF	R. <u>IDENTIFICATION</u>
PIPING ACCESSORIES		
—— CO CLEAN OUT		UNION
—— WCO WALL CLEAN OUT	卫	THERMOMETER
—O FCO FLOOR CLEAN OUT (FLUSH)	$\overline{\varphi}$	PRESSURE GAUGE
→ BFP BACKFLOW PREVENTER	— 1 нв	HOSE BIBB
PRV PRESSURE REDUCING VALVE	(<u>(</u>) RD / OF	ROOF DRAIN / OVERFLOW DRAIN
-Ö— SHUTOFF VALVE	→ DSN	DOWN SPOUT NOZZLE
BALANCE VALVE	⊕ FD	FLOOR DRAIN
CHECK VALVE	O HD	HUB DRAIN
WHA WATER HAMMER ARRESTOR	O SD	SITE DRAIN
T TEST CONNECTION	(X)	FIXTURE UNIT
PIPING CAP	· ·	
PIPING		
——— CW COLD HARD WATER PIPING	— P — P	PROCESS DRAIN PIPING
— S — CWS COLD SOFT WATER PIPING	_LS LS	LOW STRENGTH PROCESS DRAIN PIPING
—— HW HOT WATER PIPING	—HS— HS	HIGH STRENGTH PROCESS DRAIN PIPING
—— HWR HOT WATER RETURN PIPING	—ST— ST	STORM / CONDUCTOR PIPING
-140S- 140 HWS 140° HOT WATER PIPING	—0F— 0F	STORM / CONDUCTOR PIPING - OVERFLOW
-140R- 140 HWR 140° HOT WATER RETURN PIPING	V	VENT PIPING
- HP CW - HP CW HIGH PRESSURE COLD WATER SUPPLY	—AW— AW	ACID WASTE PIPING
- HP HW - HP HW HIGH PRESSURE HOT WATER SUPPLY	—AV— AV	ACID VENT PIPING
-HP HWR- HP HWR HIGH PRESSURE HOT WATER RETURN		CLEARWATER WASTE PIPING
—NP— NP NON-POTABLE WATER PIPING	-CLV- CLV	CLEARWATER VENT PIPING
-NP HW- NP HW NON-POTABLE HOT WATER	— G— G	GAS PIPING - NATURAL
-NP HWR- NP HWR NON-POTABLE HOT WATER RETURN	— A — AIR	AIR PIPING - COMPRESSED
— TW — TW TEMPERED WATER PIPING	—HS— HS	HYDRAULIC SUPPLY PIPING
—SAN— SAN SANITARY DRAIN PIPING	—HR— HR	HYDRAULIC RETURN PIPING
—GW— GW GREASE WASTE PIPING	—NIT— NIT	NITROGEN PIPING
— ST — ST STORM DRAIN PIPING	-CO2- CO2	CARBON DIOXIDE PIPING
MISCELLANEOUS		
EL ELEVATION	C.T.E.	CONNECT TO EXISTING
<u>SECTION NUMBER</u>		CALLOUT OR DETAIL NUMBER
SHEET NUMBER		SHEET NUMBER
ABBREVIATIONS	NIO	NOT IN CONTRACT
AFF. APONE FINISHED FLOOR	NIC	NOT IN CONTRACT
AFF ABOVE FINISHED FLOOR	NTS	NOT TO SCALE
AFG ABOVE FINISHED GRADE	00	ON CENTER POLICIALISM
BFF BELOW FINISHED FLOOR EC ELECTRICAL CONTRACTOR	RI	ROUGH IN
EC ELECTRICAL CONTRACTOR	BJ	BETWEEN JOISTS
FPC FIRE PROTECTION CONTRACTOR GC GENERAL CONTRACTOR /	TJ	THRU JOISTS TIGHT TO STRUCTURE
CONSTRUCTION MANAGER	TTS	TIGHT TO STRUCTURE
PC PLUMBING CONTRACTOR	TYP	TYPICAL
MC MECHANICAL CONTRACTOR	VTR	VENT THRU ROOF
IE INVERT ELEVATION	WP	WEATHER PROOF
FIRE RATED WALLS		
FIRE - 1 HOUR		FIRE - 3 HOUR
FIRE - 2 HOUR		FIRE - 4 HOUR

- 1. SEE PLUMBING SPECIFICATIONS FOR MORE INFORMATION.
- 2. PLUMBING INSTALLATION SHALL BE INSTALLED PER WISCONSIN UNIFORM PLUMBING CODE AND PER LOCAL
- PLUMBING CODE FOR ITEMS NOT NOTED. 3. FIELD VERIFY UNDERGROUND PIPING LOCATION, DEPTH AND SIZE AT POINT OF CONNECTION AND THAT NEW PIPE ROUTE IS CLEAR OF UTILITIES AND OTHER OBSTRUCTIONS PRIOR TO INSTALLATION OF ANY UNDERGROUND PIPING. COSTS INCURRED FOR

FAILURE TO DO SO SHALL BE THE CONTRACTOR'S

- RESPONSIBILITY. 4. ALL PIPING IS TO BE CONCEALED. IF BUILDING CONSTRUCTION DOES NOT PERMIT CONCEALING PIPING, LOCATIONS AND ROUTING ARE TO BE APPROVED BY ARCHITECT/OWNER PRIOR TO INSTALLATION.
- 5. ROUTE ALL PIPING IN COORDINATION WITH OTHER
- 6. FLOOR AND WALL CLEANOUT LOCATIONS NOT PERMITTED TO BE MOVED WITHOUT APPROVAL OF ARCHITECT/ENGINEER.
- 7. SEE ARCHITECTURAL SHEETS FOR ADA RELATED INSTALLATION DETAILS.
- 8. SEE STRUCTURAL FOOTING, TRUSS AND JOIST ELEVATIONS AND DETAILS.
- 9. SEE MECHANICAL PLANS FOR AREAS THAT ARE USED AS A RETURN AIR PLENUM. PROVIDE PLENUM RATED PIPE OR PIPE WRAP AS PER PROJECT'S PLUMBING SPECIFICATIONS.
- 10. SEE MECHANICAL PLANS AND HVAC CONTRACTOR FOR FINAL LOCATION OF HVAC EQUIPMENT IN MECHANICAL / BOILER ROOMS TO COORDINATE FINAL LOCATIONS OF FLOOR / HUB / SITE DRAINS PRIOR TO INSTALLATION.
- 11. SEE PLUMBING ISOMETRICS SHEETS FOR PIPE SIZE AND LOAD INFORMATION NOT SHOWN ON FLOOR
- 12. SLOPE ALL SANITARY AND STORM PIPING 3" AND LARGER AT 1/8"/FT UNLESS NOTED OTHERWISE.
- 13. SLOPE ALL SANITARY AND STORM PIPING 2" AND SMALLER AT 1/4"/FT UNLESS NOTED OTHERWISE.
- 14. INSTALL CLEANOUTS AT STACKS WHICH PENETRATE THE LOWEST FLOOR LEVEL 30" A.F.F. UNLESS NOTED OTHERWISE.
- 15. INSTALL BALL VALVES TO ISOLATE HOT AND COLD WATER BRANCH PIPING FROM HOT AND COLD WATER MAINS FOR EACH PLUMBING FIXTURES OR ROOMS WITH MULTIPLE PLUMBING FIXTURES.
- 16. INSTALL EXTERIOR HOSE BIBBS AT 18" A.F.F. UNLESS NOTED OTHERWISE.
- 17. INSTALL INTERIOR HOSE BIBBS AT 24" A.F.F. UNLESS NOTED OTHERWISE.
- 18. INSTALL DOWN SPOUT NOZZLES AT 18" A.F.F. UNLESS NOTED OTHERWISE.

GENERAL DEMOLITION NOTES

1. SEE PLUMBING SPECIFICATIONS FOR MORE INFORMATION.

- 2. ALL PIPING AND FIXTURES SHOWN HEAVY DASHED ARE TO BE DEMOLISHED.
- ALL PIPING AND FIXTURES SHOWN LIGHTER ARE
- EXISTING TO REMAIN.
- 4. COORDINATE DEMOLITION OF EXISTING PIPING TO BE REMOVED WITH GENERAL CONTRACTOR.
- SOME EXISTING PLANS OF UNDERGROUND PIPING EXIST. PIPING SHOWN WITHOUT EXISTINGS PLANS ARE THE ENGINEER'S ESTIMATION OF ROUTING. FIELD VERIFY LOCATIONS OF EXISTING PIPE MAINS. REUSE ANY PIPING OF SUFFICIENT SIZE IN GOOD CONDITION. REROUTE AS REQUIRED PER FIELD CONDITIONS.
- FIELD VERIFY LOCATIONS OF EXISTING PIPE MAINS. REUSE ANY PIPING OF SUFFICIENT SIZE IN GOOD CONDITION. REROUTE AS REQUIRED PER FIELD
- 7. WHERE EXISTING PIPING IS SHOWN TO BE REMOVED, CAP BRANCH PIPE IF NOT BEING USED FOR NEW CONSTRUCTION.

DESIGN PROFESSIONAL

JUSTIN E. MONK, DE, LEED AP

(920) 267 - 6088

COMPANY: MUERMANN ENGINEERING JUSTIN@ME-PE.COM

PHONE:

P400

P500

	SHEET INDEX - PLUMBING
EET //BER	SHEET NAME
000	LEGEND AND GENERAL NOTES
100	FIRST FLOOR DEMOLITION PLAN
201	FIRST FLOOR PLAN
202	FOUNDATION PLAN
220	ROOF PLAN

DETAILS

SCHEDULES

SANITARY ISOMETRIC P300 STORM ISOMETRIC P301 WATER ISOMETRIC P302

SCHOOL DISTRICT OF MILTON HARMONY ELEMENTARY - ADDITION

DEMOLITION NOTES

- NOT ALL KEYNOTES APPEAR ON THIS SHEET

 1. REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE(S)
 / EQUIPMENT IN THIS AREA. PLUG / CAP EXISTING
 PLUMBING SUPPLY PIPING BELOW / BEHIND / ABOVE
 SURFACE OF NEW FINISHED FLOOR / WALL / CEILING.
 WATER PIPING SHALL BE CAPPED BACK AT ACTIVE MAIN.
- 2. EXISTING PLUMBING FIXTURE(S) / EQUIPMENT IN THIS AREA SHALL REMAIN.
- 3. REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE AND ASSOCIATED TRIM. EXISTING WATER AND WASTE SUPPLY PIPING SHALL REMAIN FOR REUSE FOR NEW PLUMBING FIXTURE IN NEW CONSTRUCTION PHASE.

ACC

KEY PLAN

DATE:

09-13-19

JOB NO:

190106-05

SHEET NO:

CONSTRUCTION DOCUMENTS

SCHOOL DISTRICT OF MILTON HARMONY ELEMENTARY - ADDITION

P100

VN BY: Author 9/13/2019 7:57:56 A

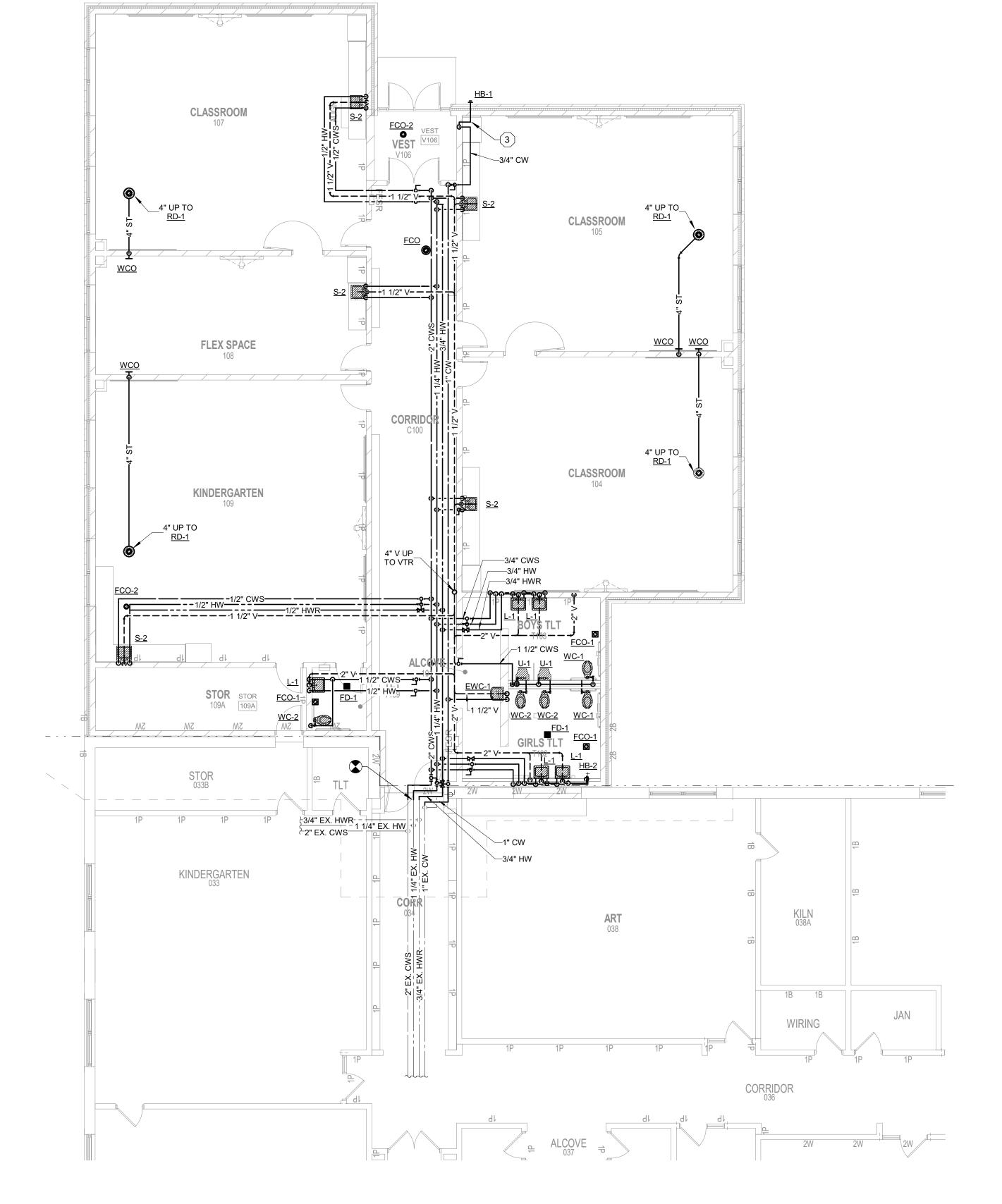
NOT ALL KEYNOTES APPEAR ON THIS SHEET

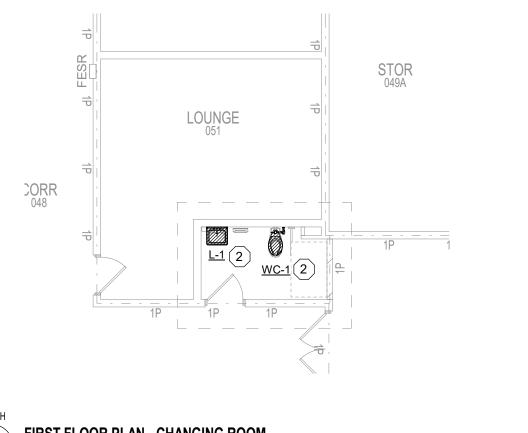
PROVIDE CAMERA INSPECTION OF EXISTING DRAIN. NOTIFY ENGINEER OF ANY IRREGULARITIES THAT WILL PREVENT THE NORMAL OPERATIONS OF THE SYSTEM.

REROUTE AND MODIFY EXISTING PIPING AS REQUIRED PER NEW PLUMBING FIXTURE ROUGH-IN REQUIREMENTS.

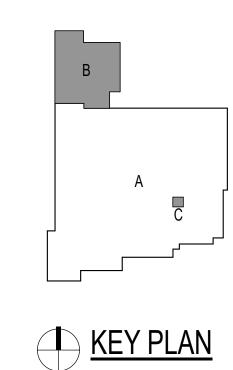
INSTALL NEW PLUMBING FIXTURE AND ASSOCIATED TRIM. CONNECT TO EXISTING WATER AND WASTE SUPPLY PIPING. FIELD VERIFY EXISTING PIPING LOCATION AND

ROUTE PIPING FOR HOSE BIBB DOWN INTERIOR WALL AND TIGHT TO BACK SIDE UP CASE WORK AS REQUIRED.



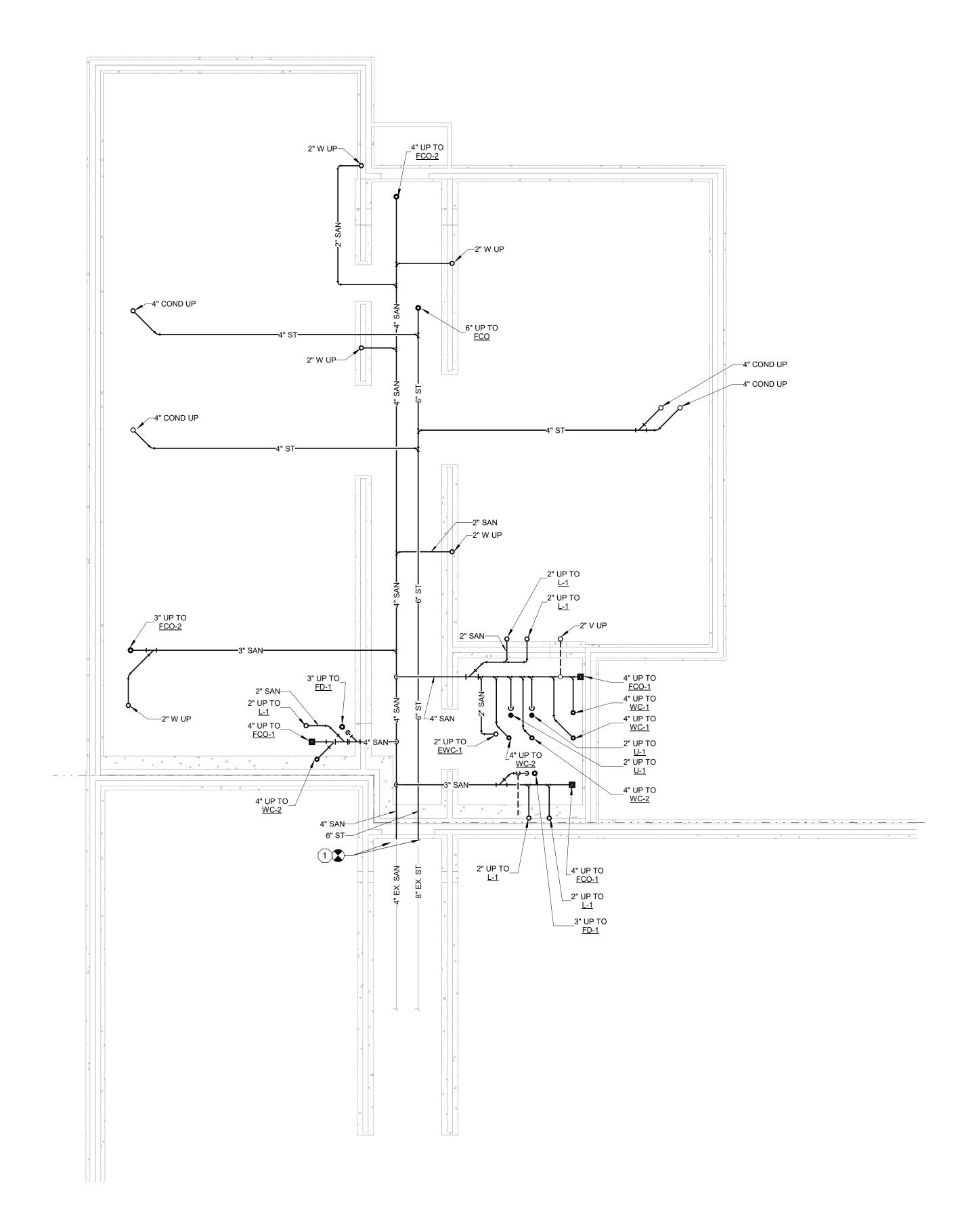






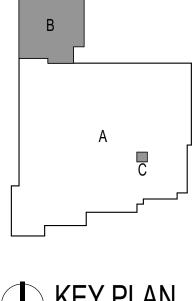
NORTH
FIRST FLOOR PLAN
1/8" = 1'-0"

CONSTRUCTION DOCUMENTS



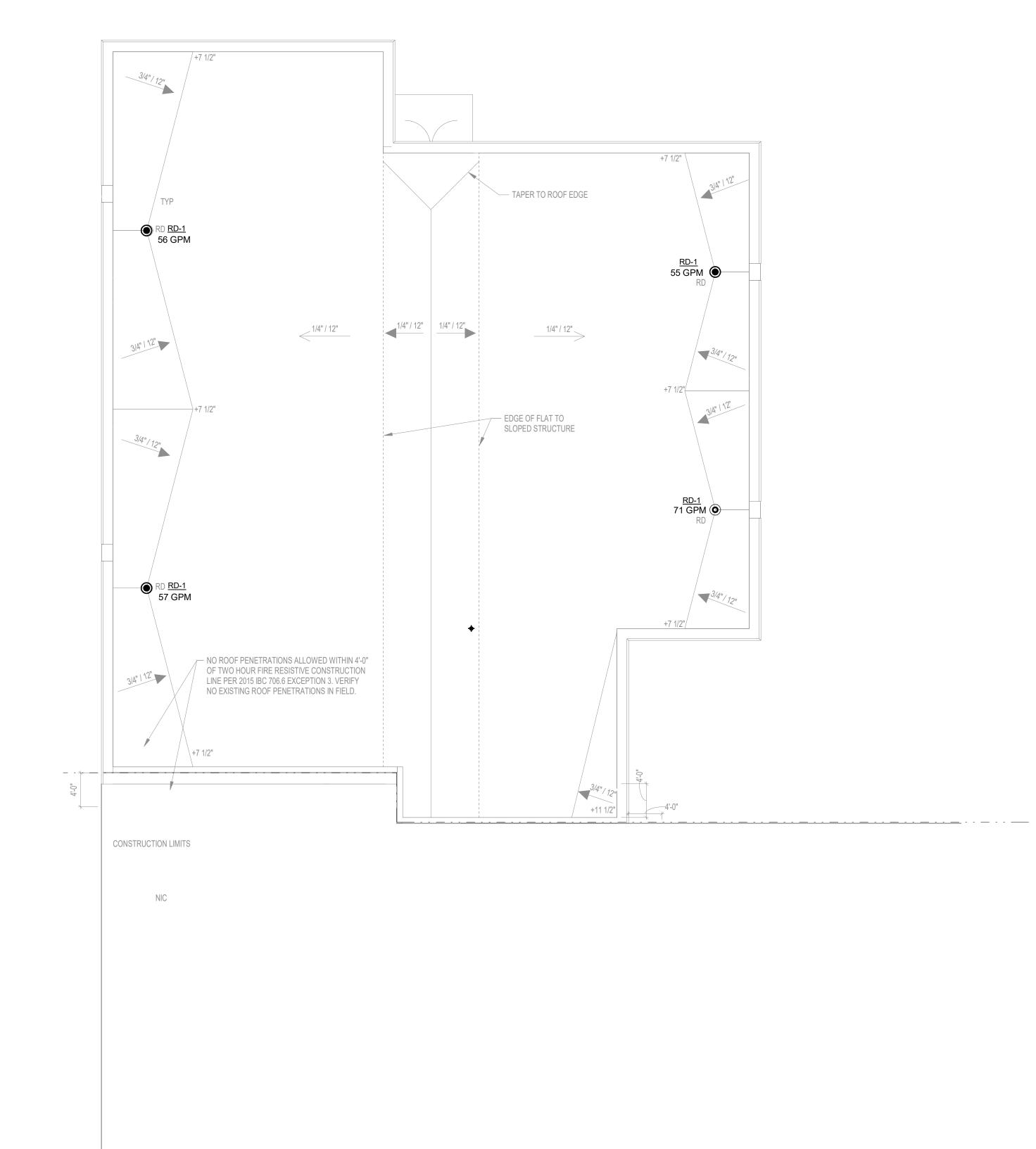
FOUNDATION PLAN

1/8" = 1'-0"

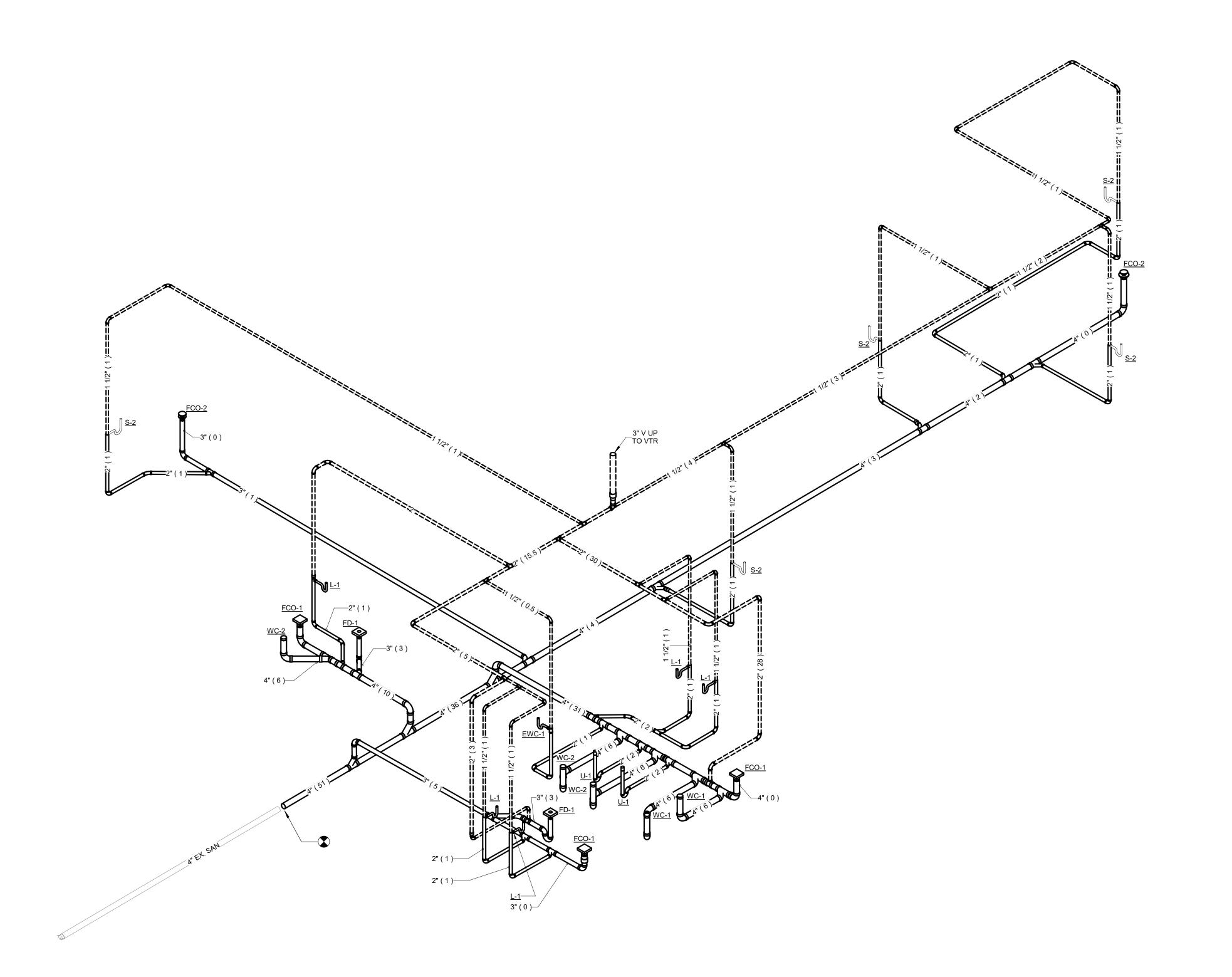


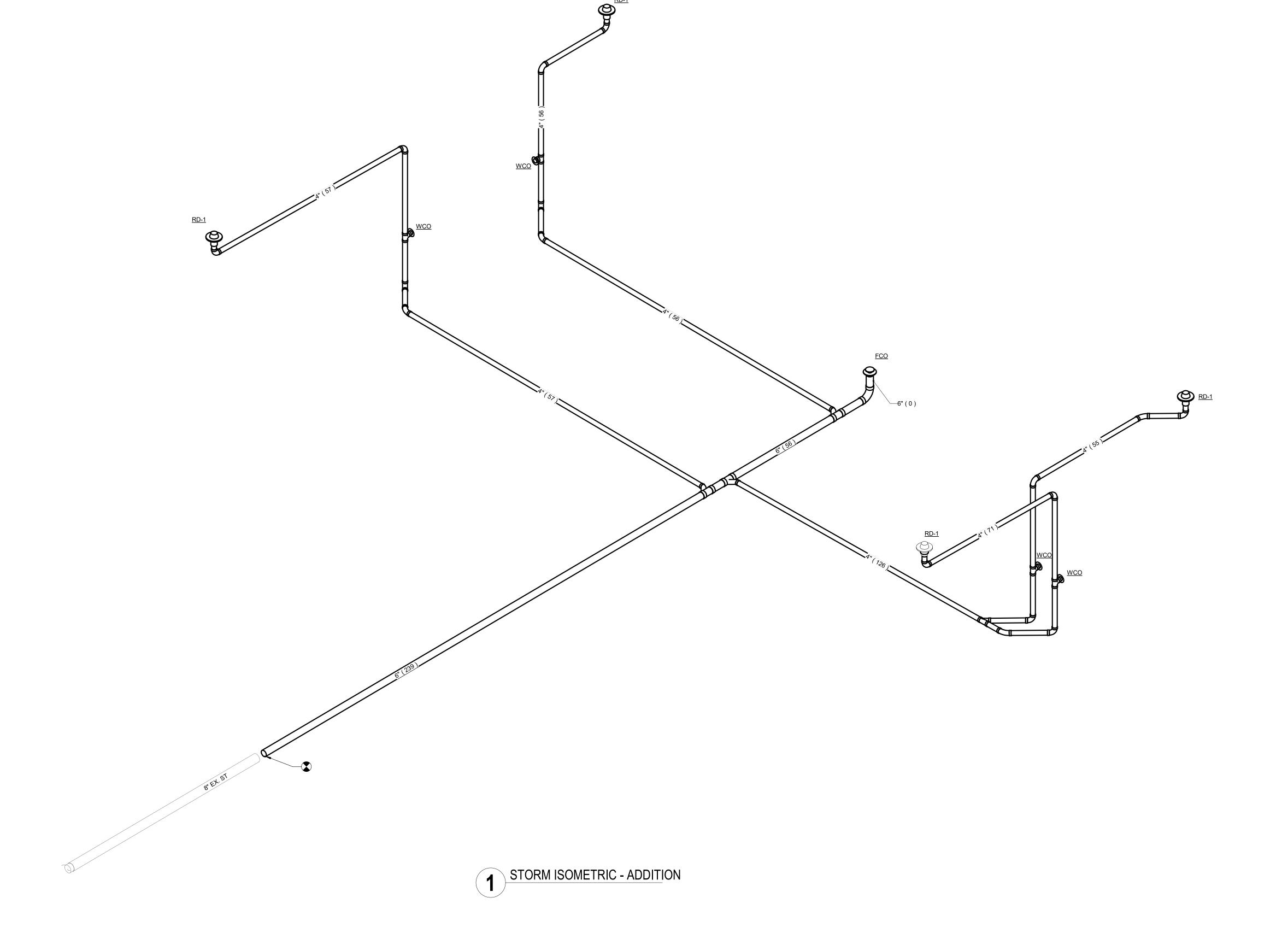
2. INSTALL NEW PLUMBING FIXTURE AND ASSOCIATED TRIM. CONNECT TO EXISTING WATER AND WASTE SUPPLY PIPING. FIELD VERIFY EXISTING PIPING LOCATION AND REROUTE AND MODIFY EXISTING PIPING AS REQUIRED PER NEW PLUMBING FIXTURE ROUGH-IN REQUIREMENTS.

ROUTE PIPING FOR HOSE BIBB DOWN INTERIOR WALL AND TIGHT TO BACK SIDE UP CASE WORK AS REQUIRED.

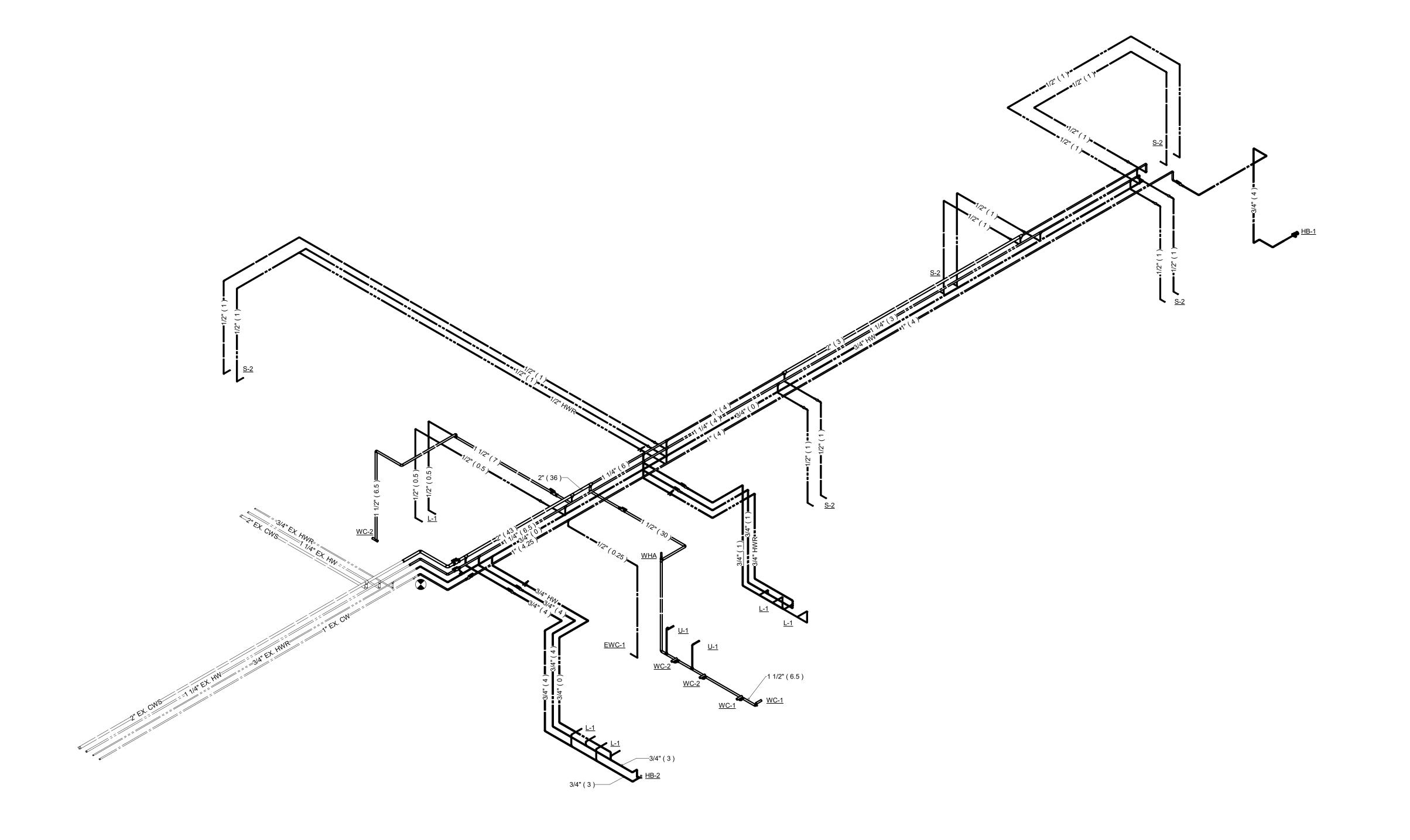


SCHOOL DISTRICT OF MILTON
HARMONY ELEMENTARY - ADDITION
4243 E. ROTAMER ROAD, JANESVILLE, WI 53546









MAX. SPACING BETWEEN PIPE SUPPORTS AND MIN. HANGER ROD SIZES

PIPE CLAMP B-LINE B2000 SERIES

PIPE CLAMP

B-LINE B2000 SERIES

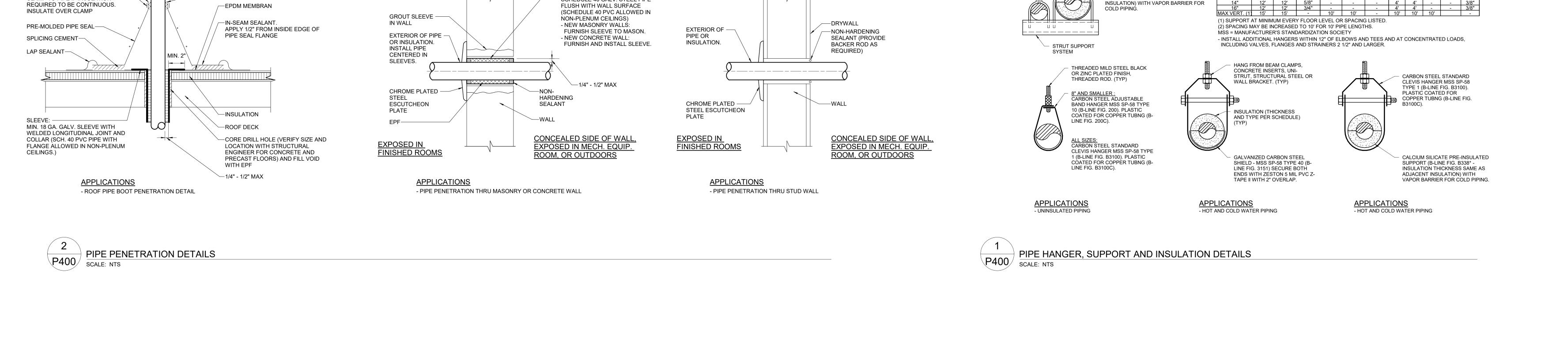
COPPER FINISH FOR COPPER

CALCIUM SILICATE PRE-INSULATED

THICKNESS SAME AS ADJACENT

SUPPORT (B-LINE FIG. B338* - INSULATION

INSULATION) WITH VAPOR BARRIER FOR



PRE-MOLDED PIPE SEAL WITH—

STAINLESS STEEL CLAMPING RING.-

CLAMP TO PIPE IF INSULATION

INTACT RIB AT TOP EDGE.

-EXTERIOR OF PIPE OR INSULATION.

- EXISTING MASONRY WALLS:

FURNISH AND INSTALL SLEEVE.

-MIN. 18 GA. GALV. STEEL WITH

FLUSH WITH WALL SURFACE

WELDED LONGITUDINAL JOINT, OR

SCHEDULE 40 GALV. STEEL PIPE

CENTERED IN SLEEVE.

—CUT OFF MASTIC

__EPDM MEMBRAN

CLEANO	UT SCHEDULE					_			
TAG	MANUFACTURER	MODEL	TYPE	APPLICATION	OUTLET	BODY MATERIAL	ACCESS COVER SIZE	ACCESS COVER MATERIAL	NOTES
co	82	100	(0	ABV, CLGS & EXPOSED PIPE	2" - 6"	PVC		9	(1)
FCO-1	ZURN	Z1400-SZ1	FLOOR	PEDESTRIAN TRAFFIC AREAS	2" - 6"	CAST IRON	6" x 6"	NICKLE BRONZE	(2)
FCO-2	ZURN	Z1400B	FLOOR	PEDESTRIAN TRAFFIC AREAS	2" - 6"	CAST IRON	7* DIA	NICKLE BRONZE	(2)
wco	ZURN	Z1469	WALL	WALL	2" - 6"	PVC	9" DIA	STAINLESS ST.	(3)
		2	3 50	8	2		2 72	60 6	

- ACCEPTABLE MANUFACTURERS: J.R. SMITH, WATTS, ZURN. - RECESSED TAPER THREAD PLUG WITH SLOTTED RECESS.

(1) PROVIDE THREADED FEMALE ADAPTER WITH INTERNAL PLUG. ADAPTER MATERIAL SHALL MATCH PIPE MATERIAL TO WHICH CO IS BEING CONNECTED.

(2) PROVIDE CARPET MARKERS AS REQUIRED PER FLOOR TYPE.

(3) PROVIDE TEST/CLEANOUT TEE. THREADED PLUG WITH BRASS INSERT. MATERIAL SHALL MATCH PIPE MATERIAL TO WHICH TEE IS BEING CONNECTED.

DRAIN	SCHEDULE									
TAG	MANUFACTURER	MODEL	TYPE	APPLICATION	OUTLET	BODY MATERIAL	STRAINER TOP	STRAINER TOP	RIM HGT. A.F.F.	NOTES
FD-1	ZURN	Z415-58Z	FLOOR	PEDESTRIAN TRAFFIC AREAS	2" - 4"	CAST IRON	6" SQUARE	NICKLE BRONZE	-1/2"	(1)(8)
RD-1	ZURN	Z100-DP-EA	ROOF	INSULATED ROOF	3* - 8*	CAST IRON	12"	CAST IRON	-	(3)
				8				8.1		

- ACCEPTABLE MANUFACTURERS: J.R. SMITH, WATTS, ZURN.

(1) PROVIDE FLASHING CLAMP FOR FLOORS WITH BUILDING STRUCTURE BELOW. SEE ARCHITECTURAL PLANS FOR LOCATIONS.

(3) TOP SET DECK PLATE AND ADJUSTABLE EXTENSION 1/2" LESS THAN INSULATION THICKNESS AT ROOF DRAIN.

(8) PROVIDE TRAPSEAL - RECTORSEAL SURE SEAL

LECT	RIC WATER CO	OLER SCHED	ULE (EV	VC)								
TAG	MANUFACTURER	MODEL	ADA	BASINS	RECESS	GPH	FILTER	CONTROL	AMPS	VOLT	PHASE	NOTES
1	ELKAY	LZS8WSLK	YES	1	NO	8.0	YES	FRONT PUSHBAR	5	120/1	4	(1)

- ACCEPTABLE MANUFACTURERS:

-FIXTURE: ELKAY, HALSEY TAYLOR, HAWS, OASIS.

-STOPS AND SUPPLIES: BRASSCRAFT, DEARBORN, KEENEY, MCGUIRE.

-DRAINS AND TRAPS: BRASSCRAFT, DEARBORN, KEENEY, MCGUIRE.

- PROVIDE WITH 1-1/4" P-TRAP WITH C.O. PLUG, AND ANGLE WATER STOP WITH HANDLE AND BRASS STEM. - CAPACITY BASED ON 50 DEGREE F WATER IN AMBIENT TEMPERATURE OF 90 DEGREES F.

- LEAD FREE CONSTRUCTION.

(1) WALL MOUNTED, STAINLESS STEEL BASIN, VINYL CLAD CABINET WITH BOTTLE FILLING STATION.

)SE E	BIBB SCHEDUL	.E (<u>HB</u>)							
TAG	MANUFACTURER	MODEL	LOCATION	FREEZE PROOF	BACKFLOW PREVENTER	WALL FLANGE	CONTROL	WATER SUPPLY	NOTES
1	WOODFORD	67B	EXTERIOR	YES	INTEGRAL ASSE 1052	YES	LOOSE KEY		
2	ACORN	8156-SSLF	INTERIOR	NO	VACUUM BREAKER ASSE 1011	NO	HANDLE	HOT & COLD	-

ACCEPTABLE MANUFACTURERS: AGORN, CHICAGO, WATTS, WOODFORD, ZURN.

	9	7			BASIN							FAUCET							Ø
TAG	ADA (1)	MANUFACTURER	MODEL	CENTER SPREAD	MOUNTING	SIZE L x W x D	DRAIN TYPE	NO. OF HOLES	CARRIER HOLES	MANUFACTURER	MODEL	SPOUT REACH	SPOUT HEIGHT	GPM	HANDLE	FINISH	TEMP. DEG. F	SUPPLY STOP TYPE	NOTE
71	YES	KOHLER	K-2005		WALL	21-1/4" x 18-1/8" x 7-1/4"	GRID	3	YES	DELTA	523LF HDF	5"	1-11/16"	1.2	LEVER	CHROME	105	KEY	1101

- ACCEPTABLE MANUFACTURERS:

-BASIN: AMERICAN STANDARD, KOHLER, SLOAN.

-FAUCETS: CHICAGO, DELTA, SLOAN, T&S BRASS.

-STOPS AND SUPPLIES: BRASSCRAFT, DEARBORN, KEENEY, MCGUIRE. -DRAINS AND TRAPS: BRASSCRAFT, DEARBORN, KEENEY, MCGUIRE.

-CARRIERS AND SUPPORTS: ANCON, JOSAM, SMITH, WADE, ZURN.

- VITREOUS CHINA LAVS, 1-1/4" 17 GAUGE "P" TRAP WITH CLEANOUT PLUG, BUSHING ON END OF OUTLET TUBE, WALL FLANGE.

- ALL WETTED PARTS SHALL BE LEAD FREE COMPLIANT.

 WALL MOUNT LAVTORY WITH BACKSPLASH. FAUCETS WITH VANDAL RESISTANT AERATOR.

(1) PROVIDE OFFSET GRID DRAIN WITH TRAP & SUPPLY GUARD FOR ADA ACCESSIBLE LAVATORY. SEE ARCHITECTURAL PLANS FOR LOCATIONS.

SINK	SCH	DULE (<u>S</u>)			35 00 F000		2/6			Vierro 200	64						100
			9	0. 31	BASIN	<u> </u>	-372 3,3			FAUCE	T	82	0 00	T.T	3 - 3	7.00	
TAG	ADA (1)	MANUFACTURER	MODEL	NO. OF COMP.	MOUNTING	SIZE L x W x D	DRAIN TYPE	MANUFACTURER	MODEL	FAUCET QTY.	SPOUT REACH	SPOUT HEIGHT	GPM	HANDLE	FINISH	SUPPLY STOP TYPE	NOTES
2	NO	JUST	CRB-ADA-2022-A-GR	1	TOP-MOUNT	22" x 20" x 5-1/2"	BASKET	CHICAGO	1100-GN8AE3-317AB		8,	8.	2.2	WRIST BL.	CHROME	KEY	(4)
		E 25	8	3		ä-	100		2	37		8 8		100	1 (1)	(8)	8 000

- ACCEPTABLE MANUFACTURERS:

-BASIN: JUST, ELKAY.

-FAUCETS: CHICAGO, T&S BRASS,,

-STOPS AND SUPPLIES: BRASSCRAFT, DEARBORN, KEENEY, MCGUIRE.

-DRAINS AND TRAPS: BRASSCRAFT, DEARBORN, KEENEY, MCGUIRE.

MATERIAL: 18 GAUGE 304 STAINLESS STEEL SINK, ANGLE SUPPLIES WITH STOPS WITH BRASS STEMS.

- PROVIDE EACH COMPARTMENT WITH STAINLESS STEEL BASKET TYPE STRAINER, STAINLESS STEEL TAILPIECE , AND 1-1/2" 17 GAUGE "P" TRAP W/ CLEANOUT.

- VERIFY SINK CUTOUT SIZE WILL FIT IN COUNTERTOP WITH CABINET SHOP DRAWINGS PRIOR TO ORDERING.

(1) PROVIDE OFFSET GRID DRAIN WITH TRAP & SUPPLY GUARD FOR ADA ACCESSIBLE SINK. SEE ARCHITECTURAL PLANS FOR LOCATIONS.

(4) PROVIDE DRINKING FOUNTAIN - CHICAGO 748-66FHABCP.

URINA	L SC	CHEDULE (U)	2000	.c.		.00		17.57.00.000.00400	3.430		200 200 200	
W			URINA	L _{op}			500	FLUSH V	ALVE		MIN.	
TAG	ADA (1)	MANUFACTURER	MODEL	MOUNTING	RIM HT. A.F.F.	CARRIER	MANUFACTURER	MODEL	GAL. PER FLUSH	OPERATION TYPE	PRESS. PSIG	NOTE
1	YES	KOHLER	K-4920-T	FLOOR			SLOAN	G2-8186	0.5	SENSOR	15	(2)

- ACCEPTABLE MANUFACTURERS:

-URINAL: AMERICAN STANDARD, KOHLER, SLOAN.

-FLUSH VALVE: DELANY, SLOAN. - VITREOUS CHINA.

- WASHOUT URINALS WITH REMOVABLE STAINLESS STEEL STRAINER.

(1) SEE ARCHITECTURAL PLANS FOR LOCATIONS. (2) BATTERY POWERED.

Vi est	35000		BOW	Established and the second	ton seemon see	Activities with the	e contentant i	TANK	14405417426000044400	Representativos mieras — 98	FLUSH V	ALVE	\$60001600000000	MIN.	SEA	60 marrierano	500000000
TAG	ADA (1)	MANUFACTURER	MODEL	MOUNTING	RIM HT.	CARRIER	TYPE	GAL PER FLUSH	SUPPLY STOP TYPE	MANUFACTURER	MODEL	GAL. PER FLUSH	OPERATION TYPE	PRESS. PSIG	MANUFACTURER	MODEL	NOTES
1	YES	KOHLER	K-3493-SS	FLOOR	17-1/81	NO	PRESSURE	1.6	KEY	100				160	BEMIS	1655SSCT	(6)
2		KOHLER	K-3505-SS	FLOOR	17-1/8"	NO	PRESSURE	1.6	KEY		- 2		33		BEMIS	16553SCT	(6)

- ACCEPTABLE MANUFACTURERS:

-BOWL: AMERICAN STANDARD, KOHLER, SLOAN.

-TANK: AMERICAN STANDARD, KOHLER, SLOAN.

-SEAT: BEMIS, CHURCH. - VITEROUS CHINA, WATER SAVING, MINIMUM 2 - 1/8" GLAZED TRAPWAY, SIPHON JET ELONGATED BOWL WITH WHITE SOLID PLASTIC OPEN FRONT SEAT WITH SELF-SUSTAINING CHECK HINGE.

CONTROLS FOR ADA ACCESSIBLE FIXTURES SHALL BE ON THE OPEN SIDE.

(1) SEE ARCHITECTURAL PLANS FOR LOCATIONS. (6) PROVIDE TANK COVER LOCKS.

SCHOOL DISTRICT OF MILTON HARMONY ELEMENTARY - ADDITION

CONSTRUCTION DOCUMENTS

UNIT VENTILATORS BRANCH CAP. BTU @ 80/67

HVAC

HVAC

HVAC

HVAC

PRE-WIRED

PRE-WIRED

PRE-WIRED

COOLING **SERVICE** CLASSROOM 107 UV-2 FLEX SPACE 108 CLASSROOM 109 2' - 8" 0.33 CLASSROOM 105 UV-5 2' - 8" CLASSROOM 104

CHILLED WATER COIL FOR FUTURE CONNECTION.

CABIN	ET HEATERS												
UNIT NO.	SERVICE	ТҮРЕ	САР. МВН	CFM OF STD. AIR	MOTOR HP	DRIVE	SPEED	RECESS	ENT. H2O TEMP.	LV. H2O TEMP.	GPM	BRANCH PIPE SIZE	MANUF. MODEL
CH-1	BOYS TOILET T103	CR	13.5	220	0.017	DIRECT	3	0' - 10"	180 °F	160 °F	1.6	3/4"	RITTLING 02
CH-2	GIRLS TOILET T102	CR	13.5	220	0.017	DIRECT	3	0' - 10"	180 °F	160 °F	1.6	3/4"	RITTLING 02
CH-3	VESTIBULE V106	ISGB	25.5	420	0.04	DIRECT	3	0' - 4"	180 °F	160 °F	3.1	3/4"	RITTLING 04
CH-4	STORAGE 109A	CR	13.5	220	0.017	DIRECT	3	0' - 10"	180 °F	160 °F	1.6	3/4"	RITTLING 02
DED CENT OF	VCOI 00/												

PERCENT GLYCOL = 0%

UV-3 UV-4

UV-5

MOTOR	START	ERS									
DESCRIPTI ON	MCA	МОСР	MOTOR HP	VOLTAGE	PHASE	кw	STARTER FURNISHED BY	STARTER INSTALLED BY	STARTER LOCATION	STARTER TYPE	REMARKS
CE-1				120	1	0.06	HVAC	EC	NEAR UNIT	SP. SW.	
CH-1			0.017	120	1		HVAC	HVAC	PRE-WIRED	-	
CH-2			0.017	120	1		HVAC	HVAC	PRE-WIRED	-	
CH-3			0.04	120	1		HVAC	HVAC	PRE-WIRED	-	
CH-4			0.017	120	1		HVAC	HVAC	PRE-WIRED	-	
RE-1			0.125	120	1		HVAC	EC	NEAR UNIT	MAN.	
RE-2			2	208	3		HVAC	EC	NEAR UNIT	VFD	
UV-1			0.33	120	1		HVAC	HVAC	PRE-WIRED	-	
UV-2			0.33	120	1		HVAC	HVAC	PRE-WIRED	-	

ROOI	F EXHAUSTERS								
UNIT NO.	SERVICE	CFM OF STD. AIR	FAN DIA	MAX. SONES	EXT. S.P. IN IN. WATER	MOTOR HP	DRIVE	BACKDRAFT DAMPER	MANUF. MODEL
RE-1	TOILET ROOMS	600	0' - 10"	9	0.5	0.125	DIRECT	BY B.A.S.	COOK ACED-100
RE-2	BUILDING PRESSURE	4,500	2' - 0 1/2"	10	0.5	2	DIRECT	BY B.A.S.	COOK ACED-245

CEILI	NG EXHAUS	ST FANS	S						
UNIT NO.	SERVICE	CFM OF STD. AIR	TYPE	MAX. SONES	EXT. S.P. IN IN. WATER	MOTOR WATTS	MOTOR RPM	SOLID STATE SPEED CONTROLLER	MANUF. MODEL
CE-1	TOILET T109	150	CEILING	4	0.5	60 W	1100	YES	COOK GN-182

0.33

0.33 0.33

120

120

120

GRILL	ES AND DIFFUS	SERS					
UNIT NO.	SERVICE	NECK SIZE	ROUND CONN. SIZE	VOLUME DAMPER LOCATION	TRANSFER DUCT SIZE	AIR PATTERN	MANUF. MODEL
EG-1	EXHAUST GRILLE	12x12	10"Ø	DUCT TAKEOFF	-	EGGCRATE	PRICE 80
TG-1	TRANSFER GRILLE	22x22	-	-	SEE SHEET	EGGCRATE	PRICE 80

UNDERCUT DOC	DRS		
ROOM NAME/NO.	SYMBOL	DESCRIPTION	HEIGHT OF UNDERCUT
TOILET T109	UC	DOOR UNDERCUT	0' - 1"

VARI	ABLE FR	EQUE	NCY DRIVES	3
UNIT NO.	SERVICE	MOTOR HP	CONTROL TYPE	MANUF. MODEL
VFD-1	RE-2	2	BUILDING PRESSURE	ABB ACH-550

<u>SYMBOLS</u>

HS	HOT WATER SUPPLY
HR	HOT WATER RETURN
	BALL VALVE
CBV E [⊞] B = →	CALIBRATED BALANCING VALVE
	FLOW DIRECTION
	GAS VALVE
	UNION
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
AD	AUTOMATIC DAMPER WITH ACCESSIBLEDUCT ACCESS DOOR
FD	FIRE DAMPER WITH ACCESSIBLE DUCT ACCESS DOOR
4 Inha	TURNING VANES
	BRANCH TAKE-OFF
	LOW PRESSURE FLEX. DUCT FITTING WITH MANUAL VOLUME DAMPER
ÚC	1" DOOR UNDERCUT. DOOR UNDERCUT BY GEN. CONTR.
T	ROOM SENSOR OR THERMOSTAT
•	CONNECT TO EXISTING DUCTWORK OR PIPING. FIELD VERIFY EXACT REQUIREMENTS.

GENERAL NOTES:

- A. THE MECHANICAL CONTRACTOR IS REQUIRED TO VISIT THE PREMISES AND TAKE NOTE OF ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK AND HE SHALL BE RESPONSIBLE FOR KNOWLEDGE OF SAME IN THE PREPARATION OF HIS BID. LACK OF INFORMATION ON EXISTING CONDITIONS SHALL NOT BE ALLOWED AS A VALID CAUSE FOR ADDITIONAL COMPENSATION.
- B. ROUTE ALL NEW PIPING AND DUCTWORK AS REQUIRED TO AVOID CONFLICTS WITH EXISTING PIPING, CONDUIT, STRUCTURE, LIGHTING, ETC. PROVIDE ALL OFFSETS, ELBOWS, ETC. AS REQUIRED TO CONNECT BETWEEN POINTS INDICATED.
- C. MECHANICAL CONTRACTOR SHALL VERIFY EXISTING CURRENT CHARACTERISTICS AT JOB SITE PRIOR TO ORDERING EQUIPMENT.
- D. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT OUTLET AND GRILLE LOCATIONS WITH THE FINAL LIGHTING LAYOUT.
- E. ELECTRICAL, STRUCTURAL, PLUMBING, ETC. REQUIREMENTS FOR THE EQUIPMENT MANUFACTURER LISTED ON THE SCHEDULE IS REFLECTED ON THE DOCUMENTS OF OTHER TRADES. ANY MODIFICATIONS NECESSARY TO ACCOMMODATE A MANUFACTURER OTHER THAN THAT
- LISTED IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. F. THE MECHANICAL CONTRACTOR SHALL COORDINATE CONSTRUCTION PHASING WITH THE GENERAL CONTRACTOR AND OWNER. PROVIDE ALL TEMPORARY PIPING, DUCTWORK, VENTILATION, CONTROLS, ETC. AS

REQUIRED TO ACCOMMODATE CONSTRUCTION PHASES.

SHEET INDEX

FEI JOB No. 19-063

SCHEDULES

FIRST FLOOR DEMOLITION PLAN

ROOF PLAN - AREA B FIRST FLOOR PIPING PLANS

DETAILS

DEMOLITION SYMBOL DESCRIPTION EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN. EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

KEYED NOTES HEX KEY **DESCRIPTION** A MEASURE AND RECORD HOT WATER GPM, AND OVER ALL STATIC PRESSURE HEAD ON EXISTING PUMP. SUBMIT REPORT TO ENGINEER. B REMOVE EXISTING UNIT VENTILATOR AND LOUVER. SAVE FOR RELOCATION. SEE NEW WORK PLAN. C REMOVE PORTION OF EXISTING HS & HR PIPE,
AND ENCLOSURE TO ACCOMMODATE NEW
LOCATION OF EXISTING UNIT VENTILATOR.
FIELD VERIFY REQUIRED. D MEASURE AND RECORD GRILLE CFM. SUBMIT REPORT TO ENGINEER. REMOVE EXISTING GRILLE AND UNUSED DUCTWORK. E MEASURE AND RECORD EXHAUST FAN CFM. SUMBIT REPORT TO ENGINEER.

SCHOOL DISTRICT OF MILTON HARMONY ELEMENTARY - ADDITION

CONSTRUCTION DOCUMENTS

VESTIBULE

TG-1

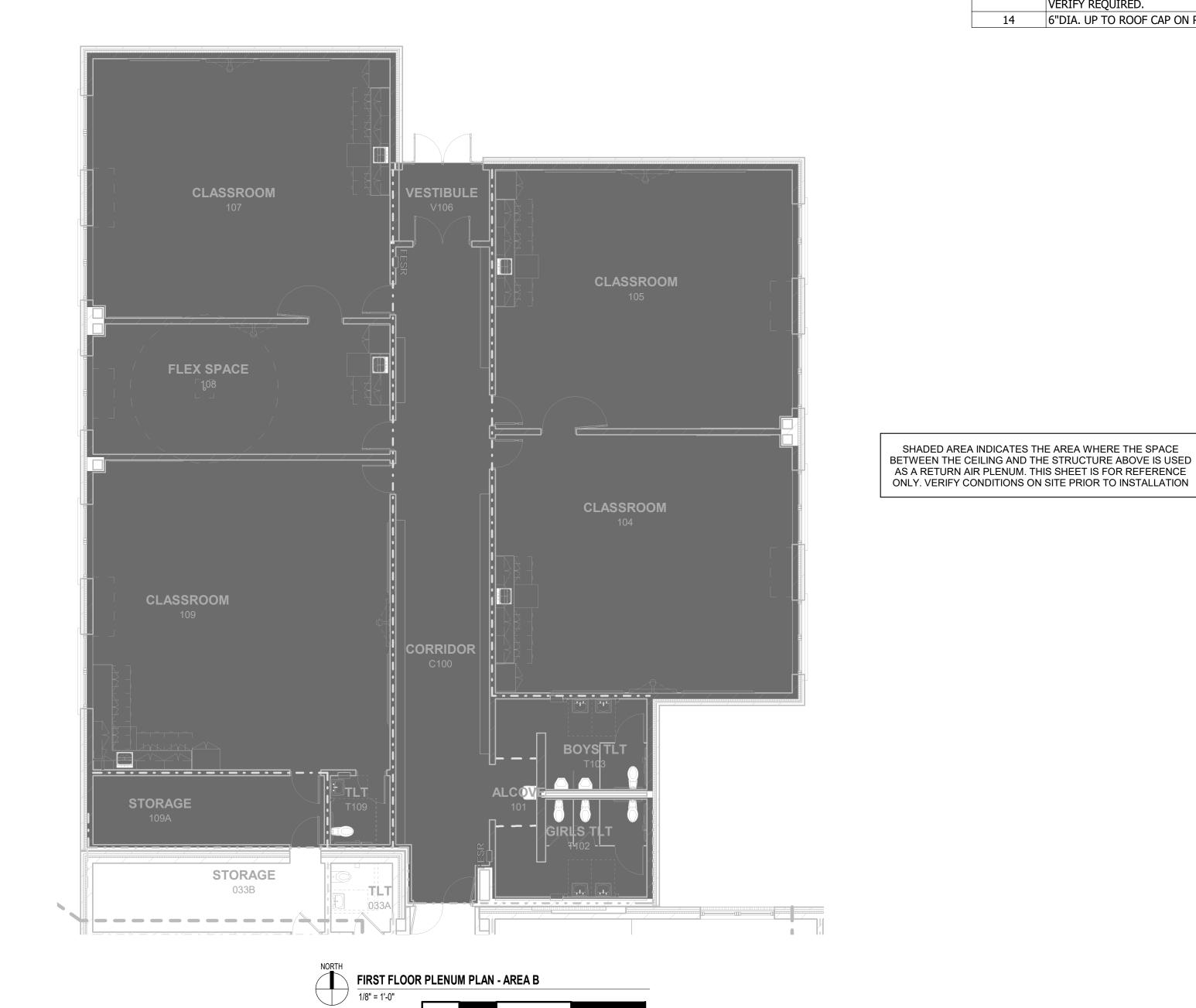
CLASSROOM

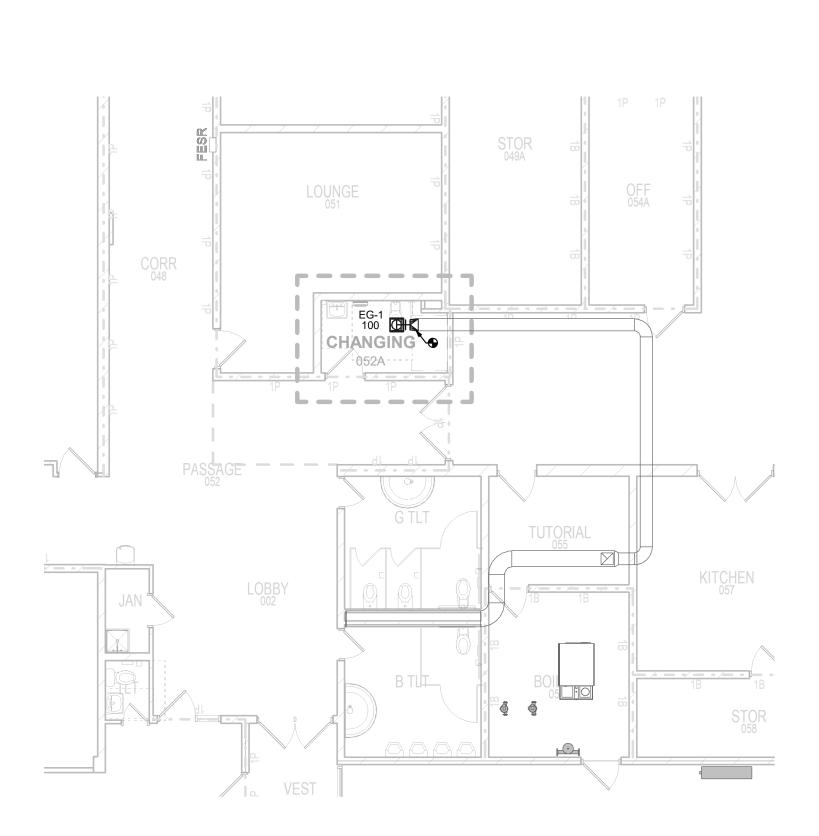
CLASSROOM

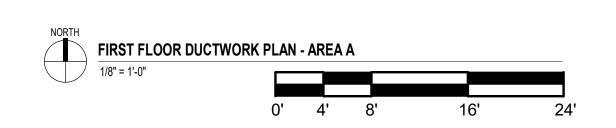
CLASSROOM

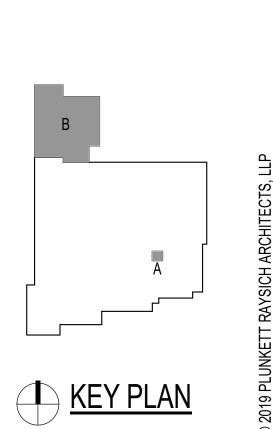
FLEX SPACE

L-2 9









SCHOOL DISTRICT OF MILTON HARMONY ELEMENTARY - ADDITION

KEYED NOTES

OPEN END DUCT ABOVE CEILINGS. PROVIDE LOUVER STYLE TO MATCH

VERIFY REQUIRED.

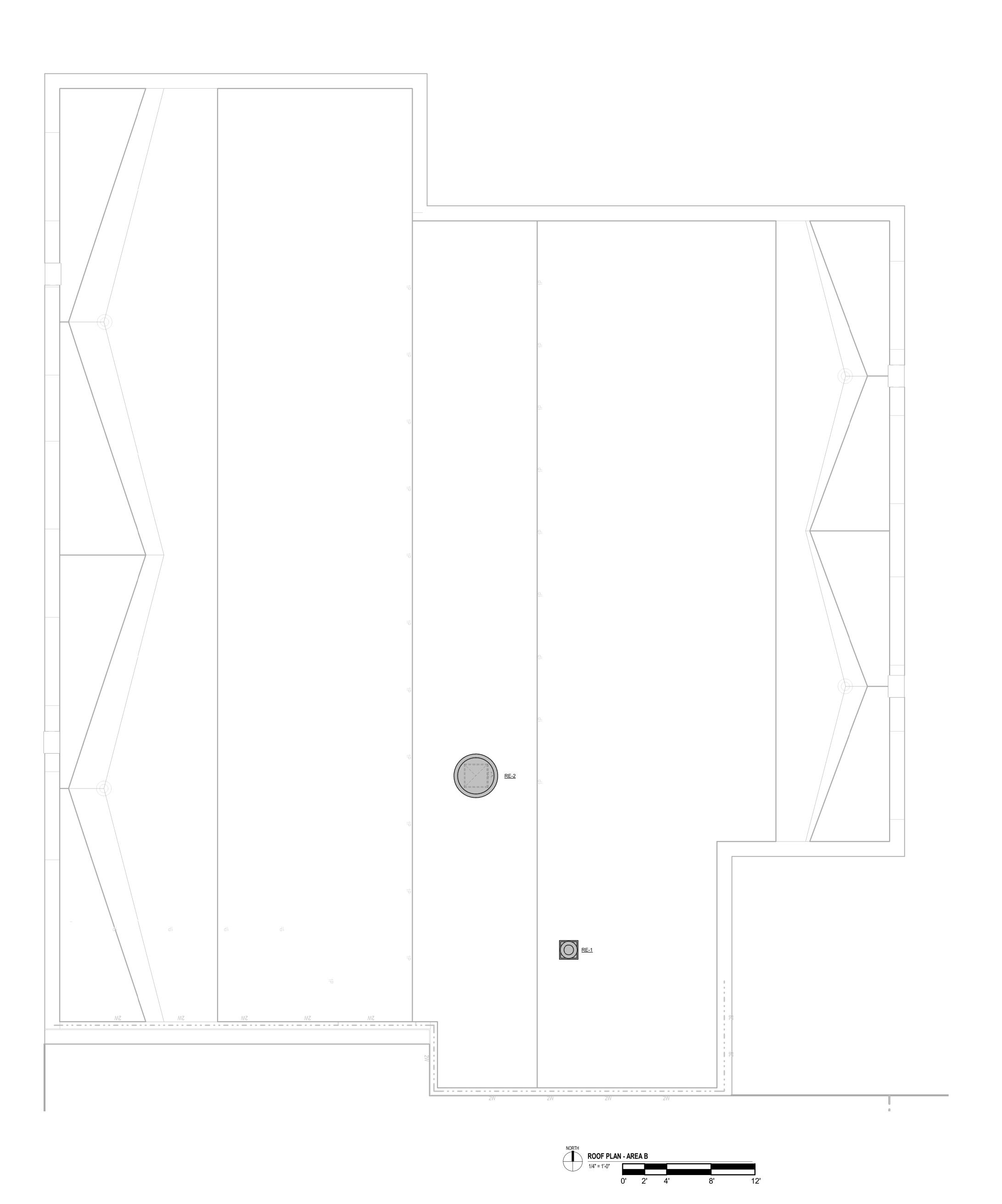
14 6"DIA. UP TO ROOF CAP ON ROOF.

DESCRIPTION

EXISTING STYLE. COORDINATE SIZE WITH UV EQUIPMENT MANUFACTURER. FIELD

HEX KEY

CONSTRUCTION DOCUMENTS



SCHOOL DISTRICT OF MILTON
HARMONY ELEMENTARY - ADDITION
4243 E. ROTAMER ROAD, JANESVILLE, WI 53546

CLASSROOM

FLEX SPACE 108

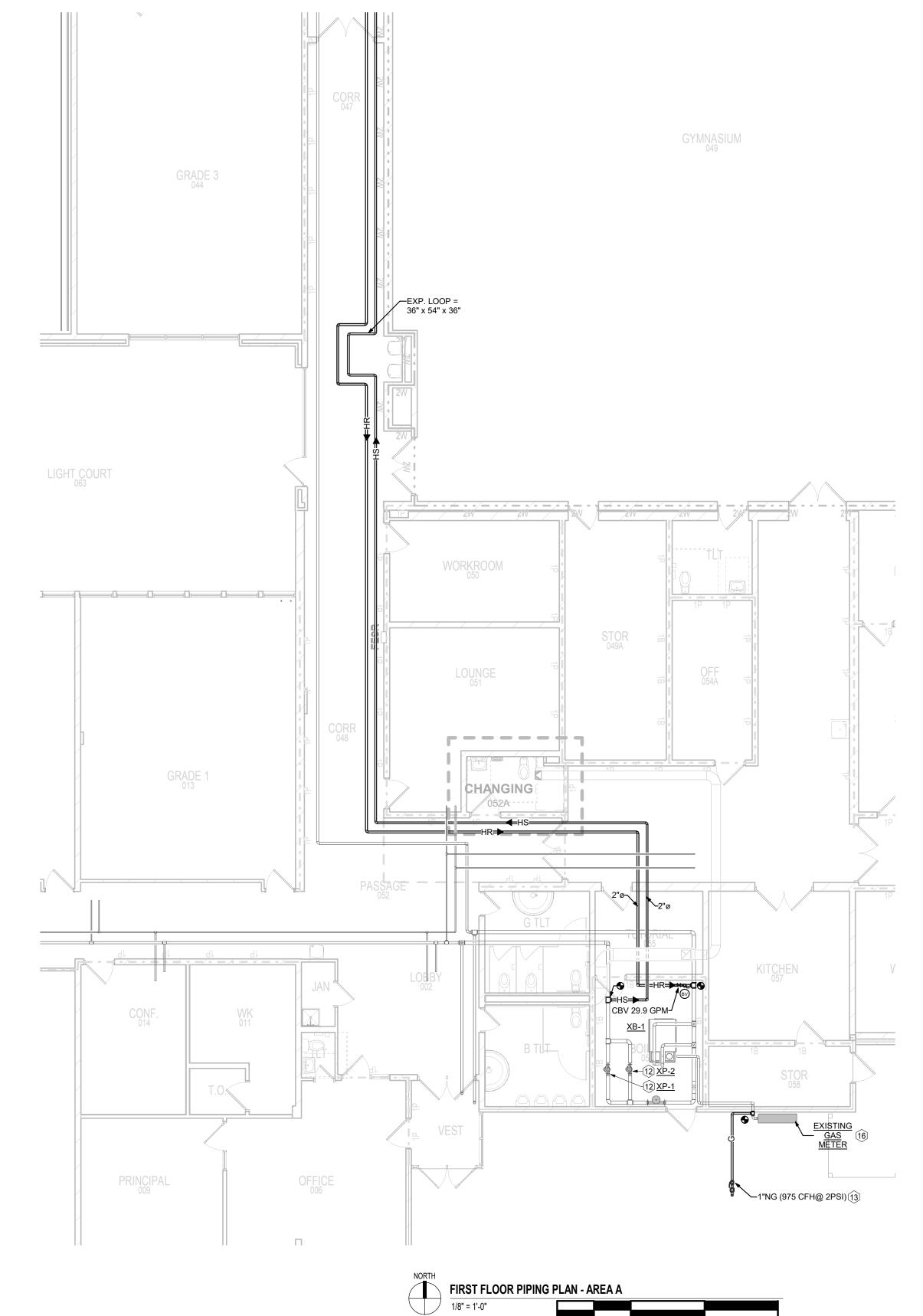
STORAGE 109A

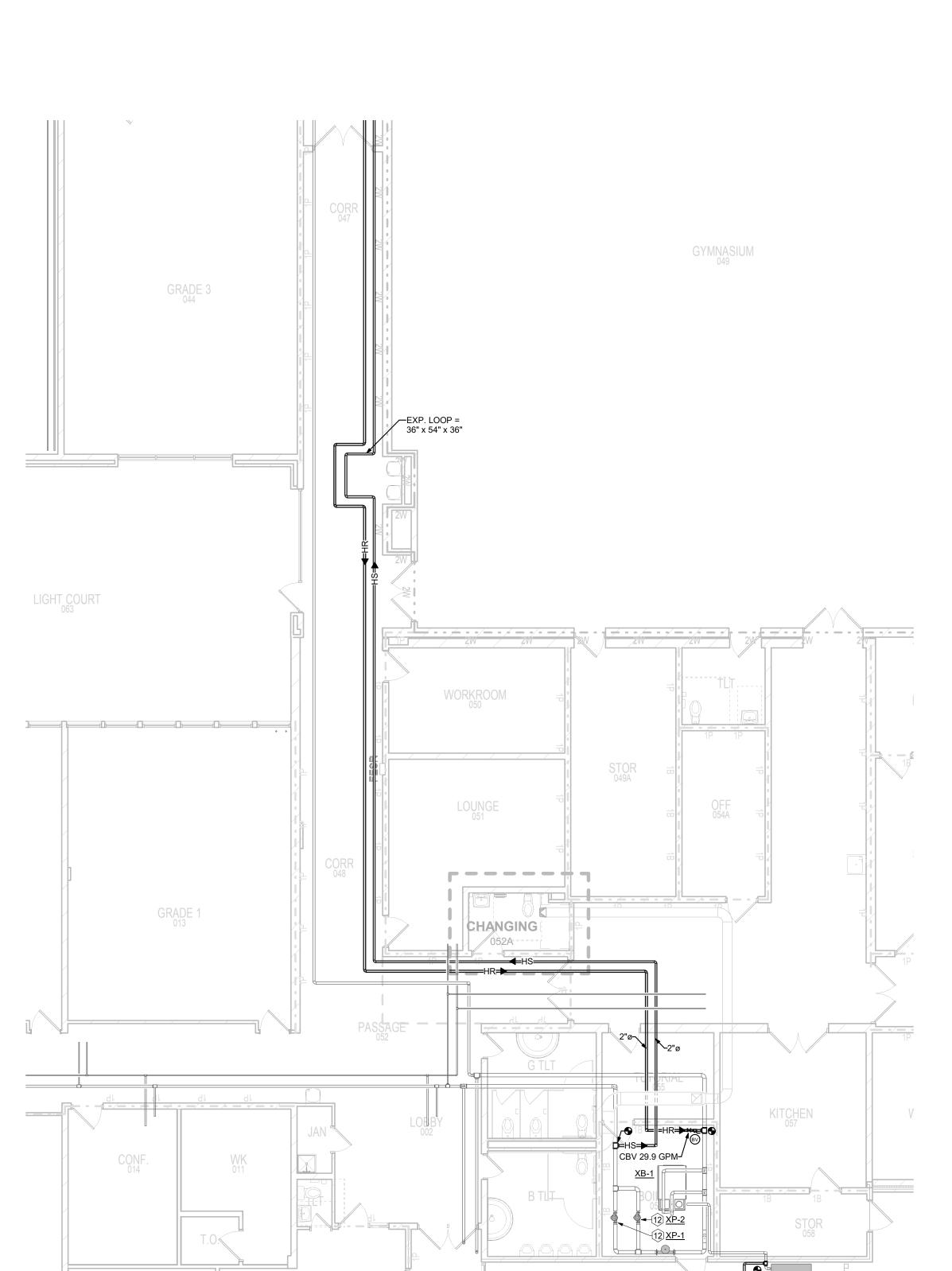
KINDERGARTEN 033

VESTIBULE

CLASSROOM

CLASSROOM 104





KEYED NOTES

11 3/4"HS DN TO & 3/4"HR FROM UV WITHIN

12 BALANCE PUMPS TO PRE-CONSTRUCTION FLOW PLUS (+) 29.9 GPM.

PLANS FOR REQUIREMENTS.

LOAD WITH LOCAL UTILITY.

WALL. SEE DETAIL.

UNIT VENTILATOR COIL.

13 PROVIDE NEW 1" NG FROM GAS MAIN TO NEW GENERATOR WITH SHUT OFF VALVE AND REGULATOR. SEE SITE AND ELECTRICAL

15 CONNECT EXISTING HS & HR TO RELOCATED

16 MECHANICAL CONTRACTOR TO VERIFY THAT

17 ROUTE 1" CONDENSATE DRAIN THRU WALL

THE METER SIZE IS ADEQUATE FOR NEW

TO ABOVE GRADE. CAP PIPE TERMINATION AT

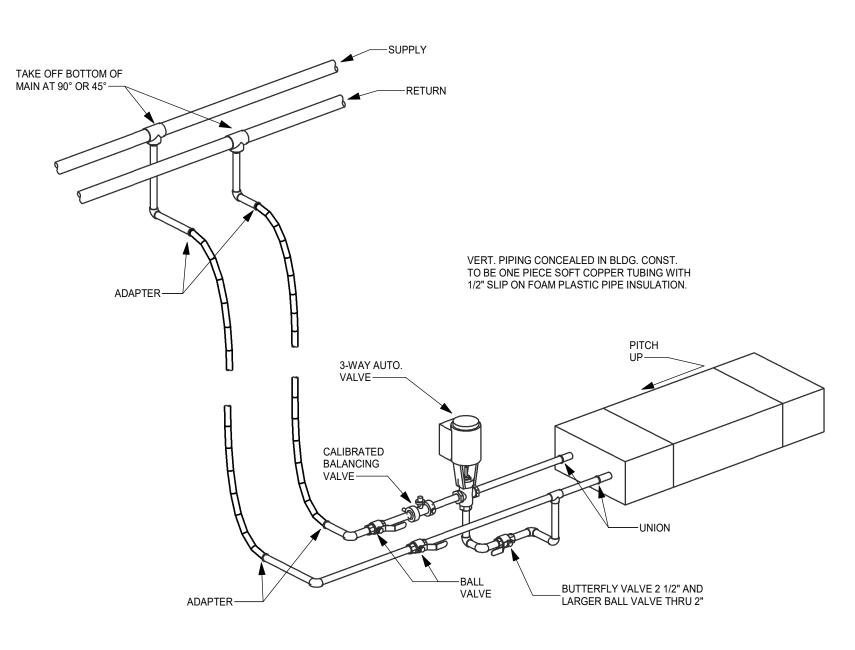
DESCRIPTION

1"HS DN TO & 1" HR WITHIN CHASE AND THROUGH PE TO SERVE UNIT VENTILATOR.

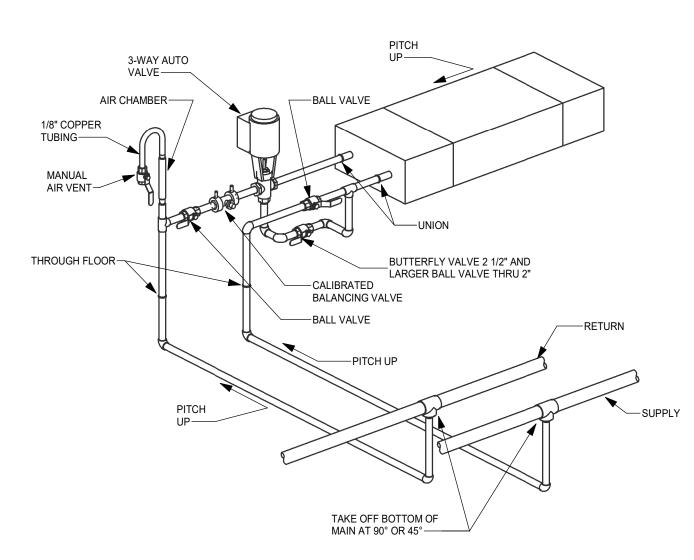
HEX KEY

SCHOOL DISTRICT OF MILTON
HARMONY ELEMENTARY - ADDITION
4243 E. ROTAMER ROAD, JANESVILLE, WI 535.18

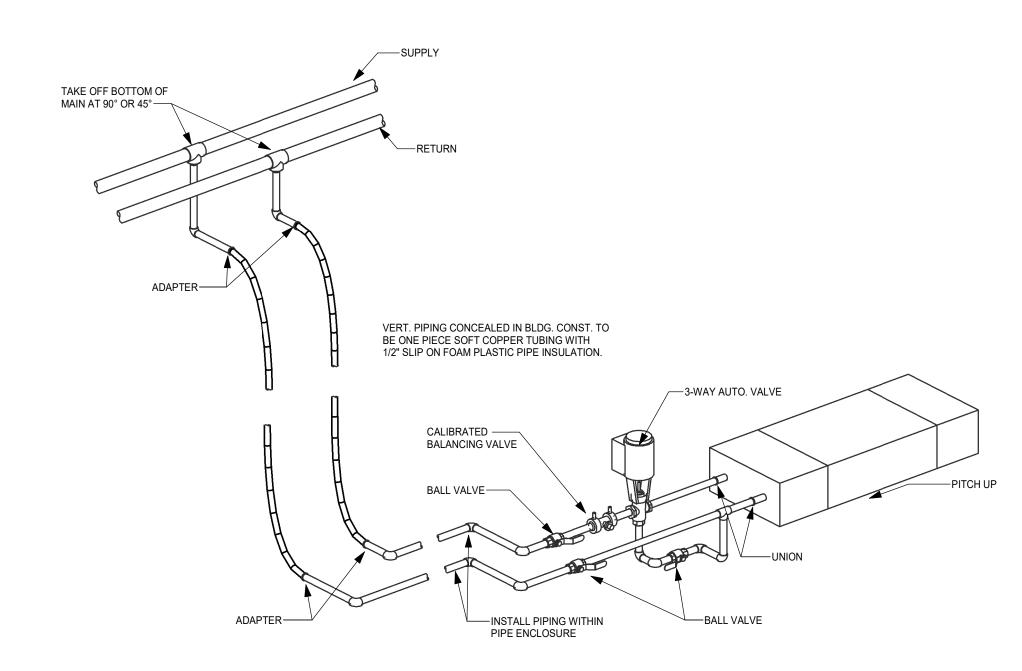
CONSTRUCTION DOCUMENTS



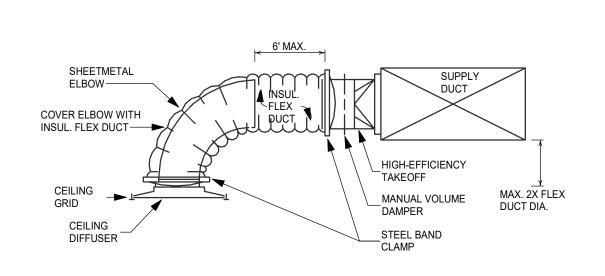
DOWNFEED HOT WATER
CABINET HEATER



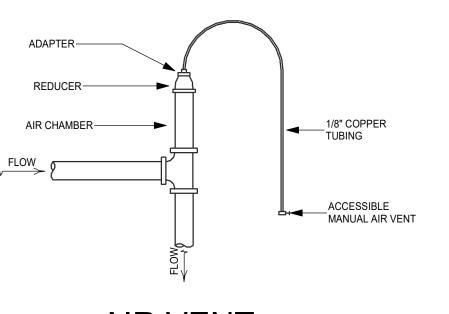
UPFEED HOT WATER CABINET HEATER



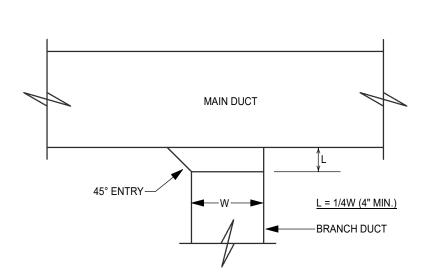
DOWNFEED HOT WATER **UNIT VENTILATOR**



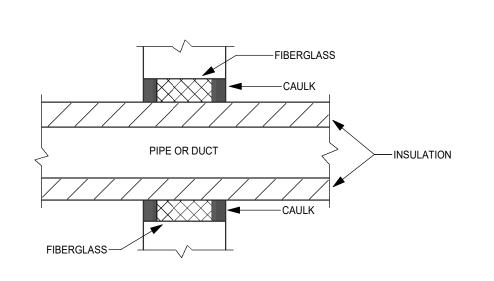
DIFFUSER DETAIL



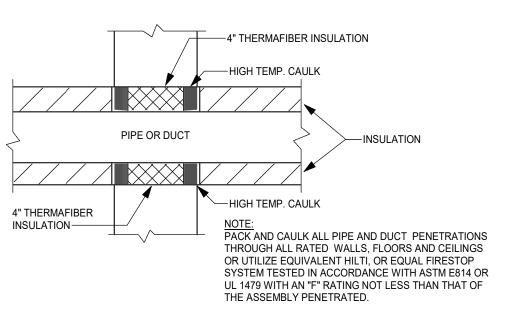
AIR VENT



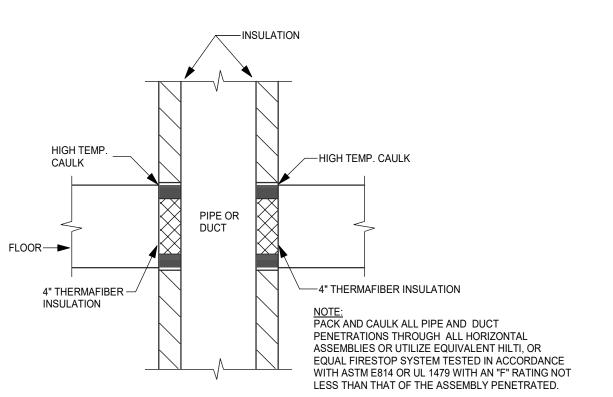
TYPICAL BRANCH CONN.



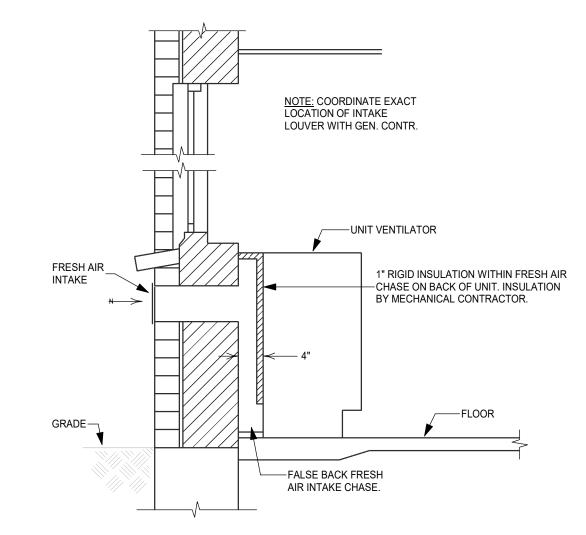
PACK AND CAULK (NON-RATED WALLS)



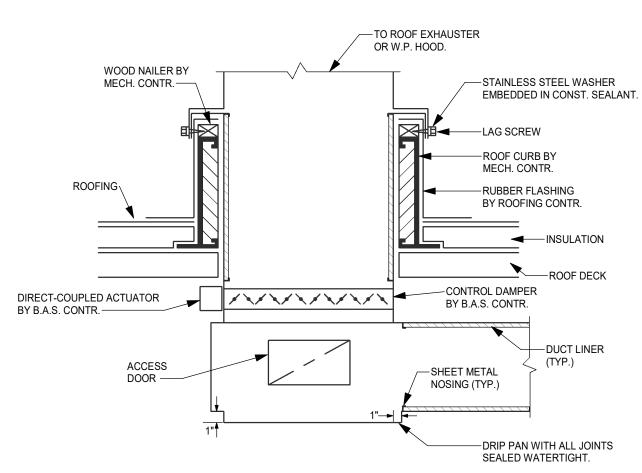
PACK AND CAULK (RATED WALLS)



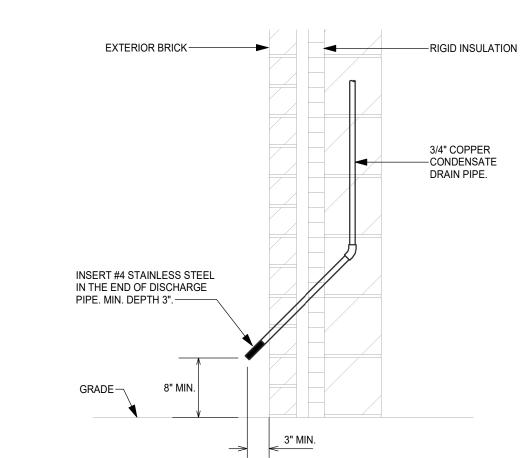
PACK AND CAULK IN HORIZONTAL ASSEMBLY



SECTION THRU UNIT **VENTILATOR**



CONDENSATE DRIP PAN



14	100	1-1/4"	(2) #3	1-1/4"	(3) #3	1-1/4"	(4) #3	
				ALUMINU	JM CONDUCTORS			
15	110	1-1/4"	(2) #1/0	1"	(3) #1/0	2"	(4) #1/0	Τ
16	125	1-1/2"	(2) #2/0	2"	(3) #2/0	2"	(4) #2/0	T
17	150	1-1/2"	(2) #3/0	2"	(3) #3/0	2"	(4) #3/0	Τ
18	175	N/A	N/A	2"	(3) #4/0	2-1/2"	(4) #4/0	Τ
19	200	N/A	N/A	2-1/2"	(3) 250KCMIL	2-1/2"	(4) 250KCMIL	Τ
20	225	N/A	N/A	2-1/2"	(3) 300KCMIL	2-1/2"	(4) 300KCMIL	
21	250	N/A	N/A	2-1/2"	(3) 350KCMIL	3"	(4) 350KCMIL	
22	300	N/A	N/A	3"	(3) 500 KCMIL	3"	(4) 500KCMIL	
23	350	N/A	N/A	(2) 2"	2 SETS OF (3) #4/0	(2) 2-1/2"	2 SETS OF (4) #4/0	
24	400	N/A	N/A	(2) 2-1/2"	2 SETS OF (3) 250KCMIL	(2) 2-1/2"	2 SETS OF (4) 250KCMIL	
25	450	N/A	N/A	(2) 2-1/2"	2 SETS OF (3) 300KCMIL	(2) 2-1/2"	2 SETS OF (4) 300KCMIL	
26	500	N/A	N/A	(2) 2-1/2"	2 SETS OF (3) 350KCMIL	(2) 3"	2 SETS OF (4) 350KCMIL	
27	600	N/A	N/A	(2) 3"	2 SETS OF (3) 500KCMIL	(2) 3 1/2"	2 SETS OF (4) 500KCMIL	
28	700	N/A	N/A	(3) 2-1/2"	3 SETS OF (3) 350KCMIL	(3) 3"	3 SETS OF (4) 350KCMIL	
29	800	N/A	N/A	(4) 2-1/2"	4 SETS OF (3) 250KCMIL	(4) 2-1/2"	4 SETS OF (4) 250KCMIL	
30	900	N/A	N/A	(4) 2-1/2"	4 SETS OF (3) 300KCMIL	(4) 2-1/2"	4 SETS OF (4) 300KCMIL	
31	1000	N/A	N/A	(4) 2-1/2"	4 SETS OF (3) 350KCMIL	(4) 3"	4 SETS OF (4) 350KCMIL	
32	1200	N/A	N/A	(4) 3"	4 SETS OF (3) 500KCMIL	(4) 3-1/2"	4 SETS OF (4) 500KCMIL	
33	1600	N/A	N/A	(6) 2-1/2"	6 SETS OF (3) 400KCMIL	(6) 3"	6 SETS OF (4) 400KCMIL	
34	1800	N/A	N/A	(6) 3"	6 SETS OF (3) 500KCMIL	(6) 3-1/2"	6 SETS OF (4) 500KCMIL	
35	2000	N/A	N/A	(6) 3"	6 SETS OF (3) 600KCMIL	(6) 3-1/2"	6 SETS OF (4) 600KCMIL	
36	2500	N/A	N/A	(8) 3"	8 SETS OF (3) 600KCMIL	(8) 3-1/2"	8 SETS OF (4) 600KCMIL	
37	3000	N/A	N/A	(10) 3-1/2"	10 SETS OF (3) 500KCMIL	(10) 3-1/2"	10 SETS OF (4) 500KCMIL	
38	4000	N/A	N/A	(12) 3-1/2"	12 SETS OF (3) 600KCMIL	(12) 4"	12 SETS OF (4) 600KCMIL	
	PLAN NOTA	ATION:						
	< > SIN	NGLE-PHASE, 1	TWO-WIRE FEEDER, NUMBER IS THE	FEEDER IDEN	TIFIER			
	<u> </u>							
	ТН	REE-PHASE, T	HREE-WIRE FEEDER, NUMBER IS TH	HE FEEDER IDE	NTIFIER			
	○ тн	REE-PHASE. F	OUR-WIRE FEEDER, NUMBER IS THI	E FEEDER IDEN	ITIFIER			
	<u> </u>	- : : : : - -, :						
								_

				FEEDE	ER SCHEDULE			
	ANADAOITY	SINGLE-PH	ASE TWO-WIRE CIRCUIT	THREE-PH	ASE THREE-WIRE CIRCUIT	THREE-PH	ASE FOUR-WIRE CIRCUIT	EQUIPMENT
ENTIFIER	AMPACITY	CONDUIT	CIRCUIT CONDUCTORS	CONDUIT	CIRCUIT CONDUCTORS	CONDUIT	CIRCUIT CONDUCTORS	GROUNDING CONDUCTOR
		<u>'</u>		COPPER	RCONDUCTORS	l l		
1	10	3/4"	(2) #12	3/4"	(3) #12	3/4"	(4) #12	#12
2	15	3/4"	(2) #12	3/4"	(3) #12	3/4"	(4) #12	#12
3	20	3/4"	(2) #12	3/4"	(3) #12	3/4"	(4) #12	#12
4	25	3/4"	(2) #10	3/4"	(3) #10	3/4"	(4) #10	#10
5	30	3/4"	(2) #10	3/4"	(3) #10	3/4"	(4) #10	#10
6	35	3/4"	(2) #8	3/4"	(3) #8	3/4"	(4) #8	#10
7	40	3/4"	(2) #8	3/4"	(3) #8	3/4"	(4) #8	#10
8	45	3/4"	(2) #8	3/4"	(3) #8	3/4"	(4) #8	#10
9	50	3/4"	(2) #8	3/4"	(3) #8	3/4"	(4) #8	#10
10	60	3/4"	(2) #6	3/4"	(3) #6	1"	(4) #6	#10
11	70	1"	(2) #4	1"	(3) #4	1-1/4"	(4) #4	#8
12	80	1"	(2) #4	1"	(3) #4	1-1/4"	(4) #4	#8
13	90	1"	(2) #3	1"	(3) #3	1-1/4"	(4) #3	#8
14	100	1-1/4"	(2) #3	1-1/4"	(3) #3	1-1/4"	(4) #3	#8
		•		ALUMINU	M CONDUCTORS	•		
15	110	1-1/4"	(2) #1/0	1"	(3) #1/0	2"	(4) #1/0	#4
16	125	1-1/2"	(2) #2/0	2"	(3) #2/0	2"	(4) #2/0	#4
17	150	1-1/2"	(2) #3/0	2"	(3) #3/0	2"	(4) #3/0	#4
18	175	N/A	N/A	2"	(3) #4/0	2-1/2"	(4) #4/0	#4
19	200	N/A	N/A	2-1/2"	(3) 250KCMIL	2-1/2"	(4) 250KCMIL	#4
20	225	N/A	N/A	2-1/2"	(3) 300KCMIL	2-1/2"	(4) 300KCMIL	#2
21	250	N/A	N/A	2-1/2"	(3) 350KCMIL	3"	(4) 350KCMIL	#2
22	300	N/A	N/A	3"	(3) 500 KCMIL	3"	(4) 500KCMIL	#2
23	350	N/A	N/A	(2) 2"	2 SETS OF (3) #4/0	(2) 2-1/2"	2 SETS OF (4) #4/0	#1
24	400	N/A	N/A	(2) 2-1/2"	2 SETS OF (3) 250KCMIL	(2) 2-1/2"	2 SETS OF (4) 250KCMIL	#1
25	450	N/A	N/A	(2) 2-1/2"	2 SETS OF (3) 300KCMIL	(2) 2-1/2"	2 SETS OF (4) 300KCMIL	#1/0
26	500	N/A	N/A	(2) 2-1/2"	2 SETS OF (3) 350KCMIL	(2) 3"	2 SETS OF (4) 350KCMIL	#1/0
27	600	N/A	N/A	(2) 3"	2 SETS OF (3) 500KCMIL	(2) 3 1/2"	2 SETS OF (4) 500KCMIL	#2/0
28	700	N/A	N/A	(3) 2-1/2"	3 SETS OF (3) 350KCMIL	(3) 3"	3 SETS OF (4) 350KCMIL	#3/0
29	800	N/A	N/A	(4) 2-1/2"	4 SETS OF (3) 250KCMIL	(4) 2-1/2"	4 SETS OF (4) 250KCMIL	#3/0
30	900	N/A	N/A	(4) 2-1/2"	4 SETS OF (3) 300KCMIL	(4) 2-1/2"	4 SETS OF (4) 300KCMIL	#4/0
31	1000	N/A	N/A	(4) 2-1/2"	4 SETS OF (3) 350KCMIL	(4) 3"	4 SETS OF (4) 350KCMIL	#4/0
32	1200	N/A	N/A	(4) 3"	4 SETS OF (3) 500KCMIL	(4) 3-1/2"	4 SETS OF (4) 500KCMIL	250KCMIL
33	1600	N/A	N/A	(6) 2-1/2"	6 SETS OF (3) 400KCMIL	(6) 3"	6 SETS OF (4) 400KCMIL	350KCMIL
34	1800	N/A	N/A	(6) 3"	6 SETS OF (3) 500KCMIL	(6) 3-1/2"	6 SETS OF (4) 500KCMIL	400KCMIL
35	2000	N/A	N/A	(6) 3"	6 SETS OF (3) 600KCMIL	(6) 3-1/2"	6 SETS OF (4) 600KCMIL	400KCMIL
36	2500	N/A	N/A	(8) 3"	8 SETS OF (3) 600KCMIL	(8) 3-1/2"	8 SETS OF (4) 600KCMIL	600KCMIL
37	3000	N/A	N/A	(10) 3-1/2"	10 SETS OF (3) 500KCMIL	(10) 3-1/2"	10 SETS OF (4) 500KCMIL	600KCMIL
38	4000	N/A	N/A	(12) 3-1/2"	12 SETS OF (3) 600KCMIL	(12) 4"	12 SETS OF (4) 600KCMIL	800KCMIL

	—EXISTING TRANSFOI TO REMAII	RMER N EXIS ⁻ "M 120/2 3Ø, 120	PROV EXIST 1 - 150 1 - 100 SWIT		TO REMAIN	EXISTING NEW NEW "LEA1" "LEA" 120/208V 120/208V		"LE" 120/208V 3Ø,4W FUSIBLE PANEL NEW 100A LIFE SAFETY TRANSFER SWITCH	14)	GRADE PAD BY E.C. 4 PER DETAIL E100
	FEEDER SCHEDULE									
	IDENTIFIED	AMPACITY	SINGLE-P	HASE TWO-WIRE CIRCUIT	THREE-PH	HASE THREE-WIRE CIRCUIT	THREE-P	HASE FOUR-WIRE CIRCUIT	EQUIPMENT GROUNDING	
	IDENTII IEIX		CONDUIT	CIRCUIT CONDUCTORS	CONDUIT	CIRCUIT CONDUCTORS	CONDUIT	CIRCUIT CONDUCTORS	CONDUCTOR	
COPPER CONDUCTORS										
	1	10	3/4"	(2) #12	3/4"	(3) #12	3/4"	(4) #12	#12	
	2	15	3/4"	(2) #12	3/4"	(3) #12	3/4"	(4) #12	#12	
	3	20	3/4"	(2) #12	3/4"	(3) #12	3/4"	(4) #12	#12	
	4	25	3/4"	(2) #10	3/4"	(3) #10	3/4"	(4) #10	#10	
	5	30	3/4"	(2) #10	3/4"	(3) #10	3/4"	(4) #10	#10	
	6	35	3/4"	(2) #8	3/4"	(3) #8	3/4"	(4) #8	#10	
	7	40	3/4"	(2) #8	3/4"	(3) #8	3/4"	(4) #8	#10	

PANEL SCHEDULE: "LE"

TYPE: COOPER FUSIBLE

GROUND BUS: YES

QUANTITY POLE AMPS LOAD SERVED

NOTE: 30 CIRCUIT TUB, FUSIBLE PANEL

PANEL SCHEDULE: "LEA1"

TYPE: SQUARE D NQ

GROUND BUS: YES

QUANTITY POLE AMPS LOAD SERVED

ISOLATED GROUND BUS: NO

NOTE: 30 CIRCUIT TUB

WITH THE FOLLOWING BREAKERS:

MOUNT: SURFACE

20 EXISTING LOADS

20 EXISTING LOADS

30 EXISTING LOAD

20 SPARE

1 20 SPARE

WITH THE FOLLOWING BREAKERS:

ISOLATED GROUND BUS: NO

MOUNT: SURFACE

1 20 EXISTING AND NEW LOADS 1 20 GENERAL USE AND SPARES

VOLTAGE: <u>120/208V 3P, 4W</u>

BUS AMPACITY: 225A

AMPS AIC: 10 KAIC

VOLTAGE: <u>120/208V 3P, 4W</u> BUS AMPACITY: <u>100A</u>

AMPS AIC: 22 KAIC

MAIN CIRCUIT BKR: 100A

SUB-FEED LUGS: YES

MAIN CIRCUIT BKR: NO

SUB-FEED LUGS: NO

VOLTAGE: <u>120/208V 3P, 4W</u> BUS AMPACITY: <u>100A</u>

AMPS AIC: 22 KAIC

VOLTAGE: <u>120/208V 3P, 4W</u>

BUS AMPACITY: 100A

SUB-FEED LUGS: NO

AMPS AIC: 10 KAIC

MAIN CIRCUIT BKR: NO

MAIN CIRCUIT BKR: NO

SUB-FEED LUGS: NO

PANEL SCHEDULE: "LA"

TYPE: SQUARE D NQ

GROUND BUS: YES

QUANTITY POLE AMPS LOAD SERVED

WITH THE FOLLOWING BREAKERS:

ISOLATED GROUND BUS: NO

NOTE: 42 CIRCUIT TUB

PANEL SCHEDULE: TYPE: SQUARE D NQ

GROUND BUS: YES

QUANTITY POLE AMPS LOAD SERVED

8 1 20 EXISTING LOADS

1 2 20 HVAC EXISTING AC UNIT (VERIFY BREAKER)

ISOLATED GROUND BUS: NO

WITH THE FOLLOWING BREAKERS:

1 2 15 SPARE

1 2 30 SPARE

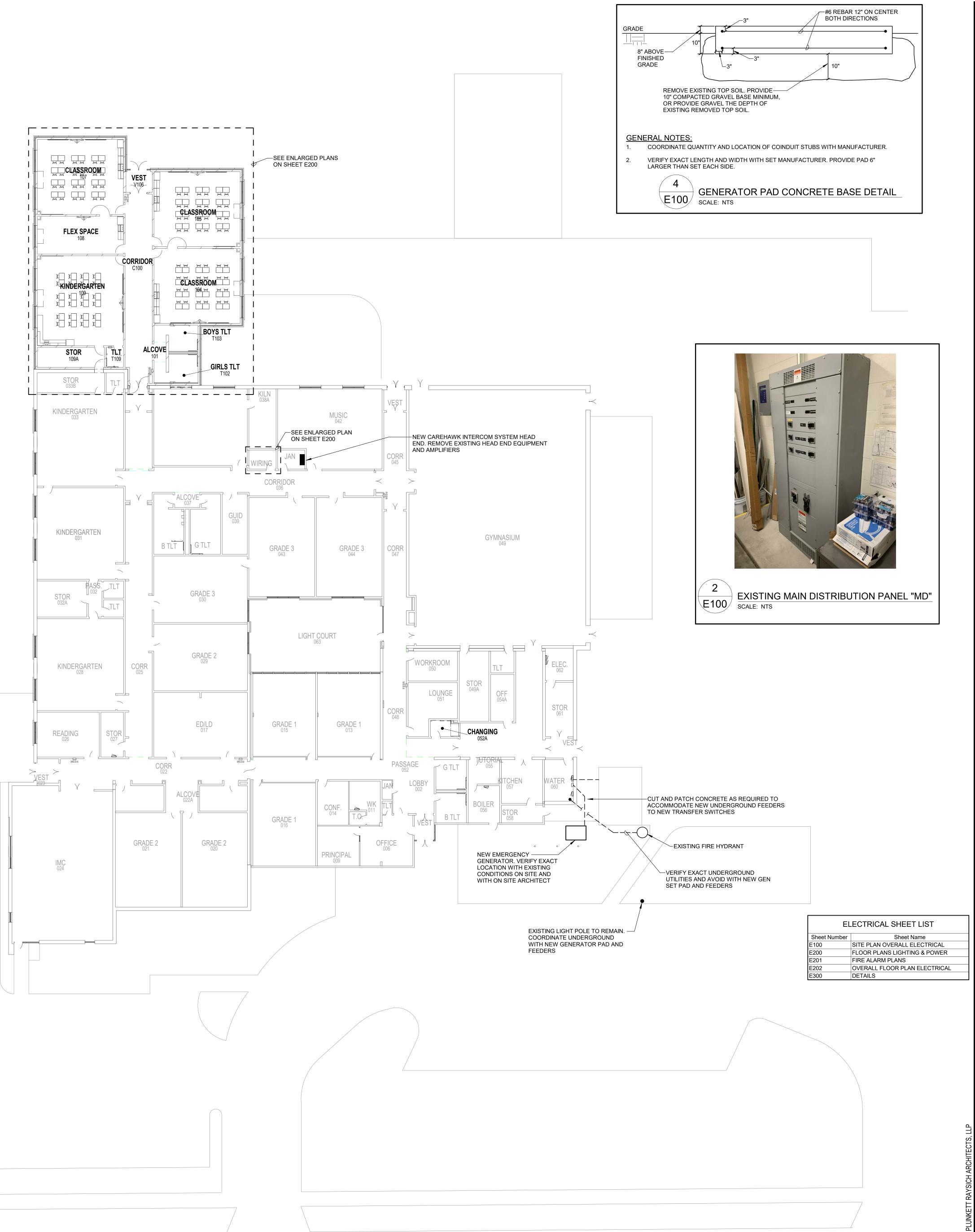
NOTE: 30 CIRCUIT TUB

SUB FED LUGS TO FEED LEA1

MOUNT: SURFACE

MOUNT: SURFACE

39
 1
 20
 GENERAL USE AND SPARES
 1
 3
 20
 HVAC



CONSTRUCTION DOCUMENTS

SCHOOL DISTRICT OF MILTON HARMONY ELEMENTARY - ADDITION

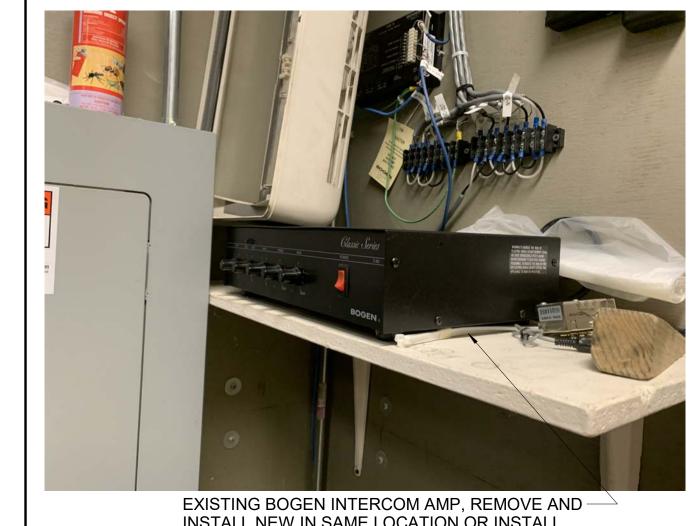
EAST ROTAMER ROAD

1) SITE PLAN ELECTRICAL 1/16" = 1'-0"

- **DEMO GENERAL NOTES:** ALL DEVICES AND EQUIPMENT SHOWN ARE TO BE REMOVED UNLESS SPECIFICALLY NOTED OTHERWISE. SEE PLAN NOTES FOR SPECIFIC WORK REQUIRED.
- REMOVE ALL DEVICES AND ASSOCIATED WIRING AND CONDUIT BACK TO PANEL OR HEAD END ON EXISTING WALLS AND CEILINGS SCHEDULED TO BE REMOVED. RE-FEED ANY DEVICES ON SAME CIRCUIT SCHEDULED TO REMAIN.
- PROVIDE A BLANK STAINLESS STEEL COVER PLATE ON ALL UNUSED OPENINGS, IN WALLS SCHEDULED TO REMAIN. IF OPENING WILL NOT ACCEPT BLANK PLATE, PATCH WALL TO MATCH EXISTING.
- REMOVE AND SITE CLEAR ALL REMOVED LIGHT FIXTURES.
- DEVICES AND EQUIPMENT SHOWN ON DRAWINGS ARE NOT ALL INCLUSIVE. EVALUATE EXISTING CONDITIONS AND REMOVE ALL ELECTRICAL EQUIPMENT AND DEVICES AS NEEDED TO ACCOMMODATE DEMOLITION OF EXISTING AREAS.
- VISIT THE PREMISES AND TAKE NOTE OF ALL EXISTING CONDITIONS WHICH MAY AFFECT WORK AND BE RESPONSIBLE FOR KNOWLEDGE OF SAME IN PREPARATION OF BID. LACK OF INFORMATION ON EXISTING CONDITIONS WILL NOT BE ALLOWED AS A VALID CAUSE FOR ADDITIONAL COMPENSATION.
- SEE HVAC AND PLUMBING PLANS FOR HVAC AND PLUMBING EQUIPMENT REMOVED. REMOVE ALL EXISTING ELECTRICAL ASSOCIATED WITH REMOVED EQUIPMENT. RE-LABEL CIRCUIT BREAKER AS "SPARE" OR REMOVED IF BREAKER SPACE IS REQUIRED TO ACCOMMODATE NEW LOADS IN EXISTING PANELBOARD.
- STRAP AND RIGIDLY SUPPORT ALL EXISTING CONDUIT AND BOXES ABOVE LAY-IN CEILINGS SCHEDULED TO BE
- REMOVED. VISIT SITE PRIOR TO BID TO DETERMINE EXTENT OF WORK.

DEMO PLAN NOTES:(X)

- REMOVE EXISTING DEVICE AND ASSOCIATED WIRING, BOX, AND CONDUIT, IN WALL SCHEDULED TO BE REMOVED. REFEED ANY EXISTING DEVICES ON SAME CIRCUIT SCHEDULED TO REMAIN.
- REMOVE AND SITE CLEAR ALL EXISTING LIGHTING, SWITCHING, SENSORS, AND CONTROLS. PROVIDE NEW LIGHTING AND CONTROLS AS SHOWN ON LIGHTING PLAN.
- REMOVE EXISTING EXIT LIGHT AND REINSTALL IN NEW LOCATION.
- DISCONNECT EXISTING UV AND EXTEND CIRCUIT TO NEW LOCATION.
- REMOVE AND REINSTALL EXISTING CCTV CAMERA TO NEW ADDITION. REMOVE EXISTING CABLING.
- REMOVE EXISTING CARD READER AND STRIKE. TURN OVER STRIKE TO OWNER. EXTEND WIRING TO NEW DOOR. REUSE AND REINSTALL CARD READER.
- REMOVE EXISTING WALL PACK. EXTEND EXISTING CIRCUIT TO NEW H3 FIXTURE. TURN OVER FIXTURE TO OWNER.
- REMOVE EXISTING WALL MOUNTED SPEAKER AND WIRING. TURN OVER TO OWNER.
- REMOVE AND REINSTALL EXISTING SMOKE DETECTOR.
- REMOVE EXISTING RECEPTACLE, BOX, WIRING, AND CONDUIT.
- 11. REMOVE AND RELOCATE EXISTING FIRE ALARM DEVICE AND WIRING. PROVIDE BLANK PLATE.

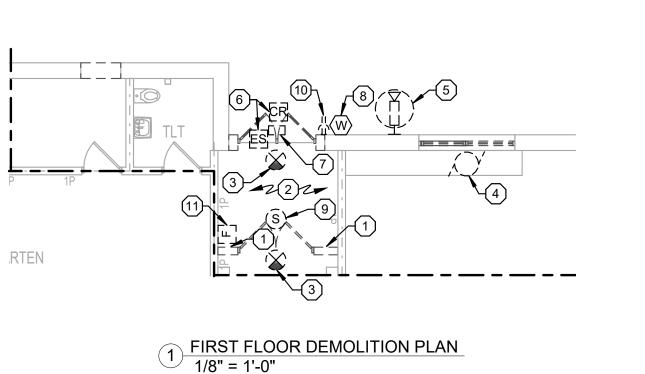


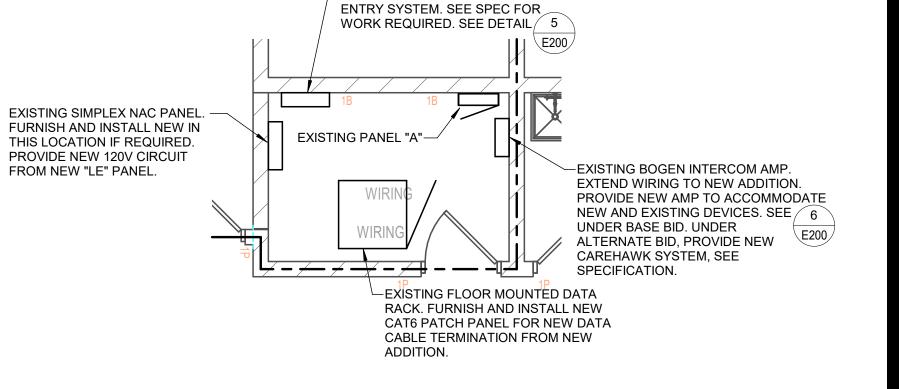
INSTALL NEW IN SAME LOCATION OR INSTALL NEW CAREHAWK SYSTEM IN SAME LOCATION **EXISTING BOGEN INTERCOM LOCATION** E200 SCALE: NTS



EXISTING KEYLESS ENTRY SYSTEM HEAD END E200 SCALE: NTS

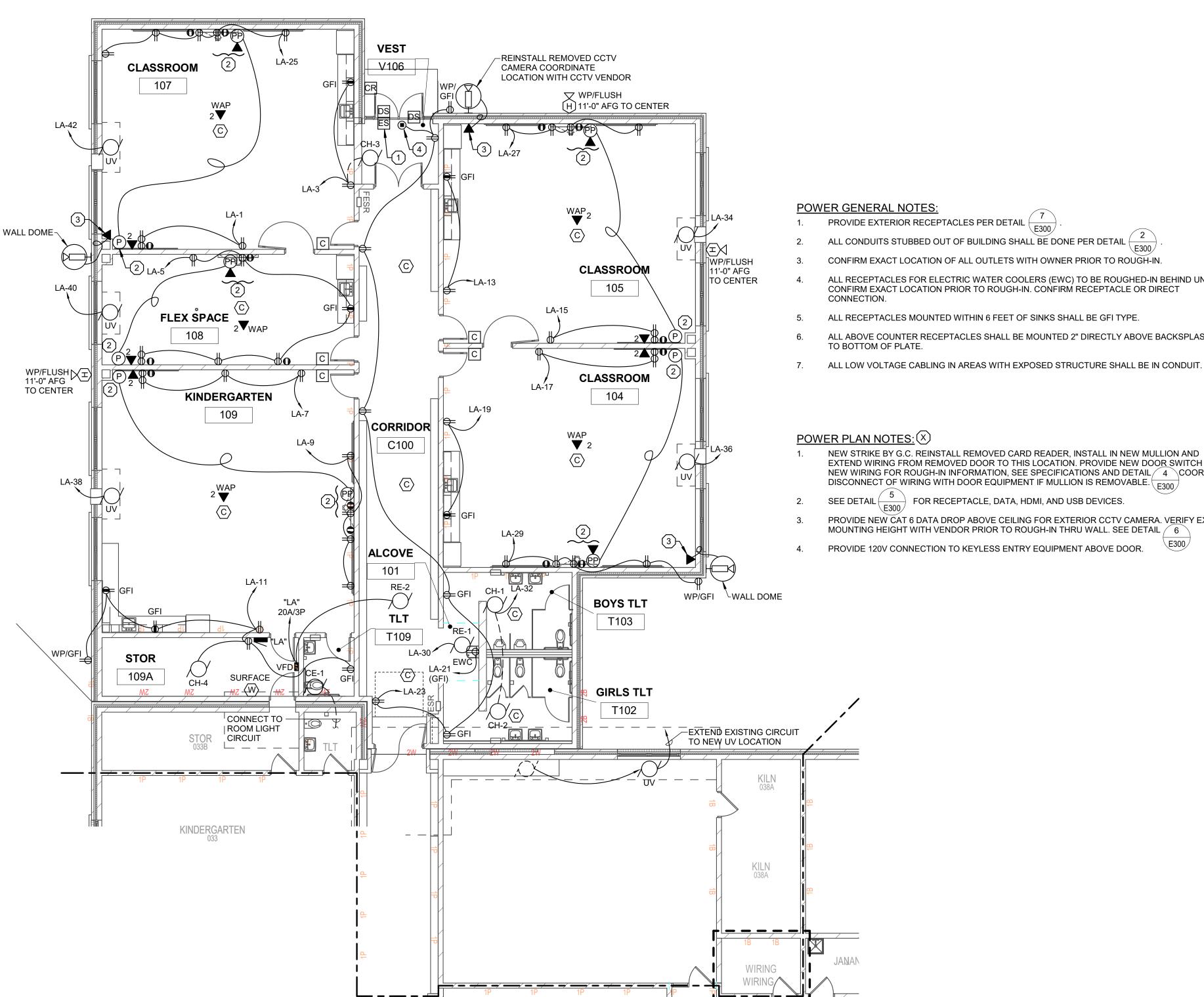
EXISTING GLOBALCOM KEYLESS





4 ENLARGED EXISTING WIRING ROOM PLAN

1/4" = 1'-0"



SEE ENLARGED PLAN THIS SHEET—

2 FIRST FLOOR POWER PLAN 1/8" = 1'-0"



- PROVIDE EXTERIOR RECEPTACLES PER DETAIL
- ALL CONDUITS STUBBED OUT OF BUILDING SHALL BE DONE PER DETAIL CONFIRM EXACT LOCATION OF ALL OUTLETS WITH OWNER PRIOR TO ROUGH-IN.
- ALL RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) TO BE ROUGHED-IN BEHIND UNIT. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN. CONFIRM RECEPTACLE OR DIRECT
- 5. ALL RECEPTACLES MOUNTED WITHIN 6 FEET OF SINKS SHALL BE GFI TYPE.
- ALL ABOVE COUNTER RECEPTACLES SHALL BE MOUNTED 2" DIRECTLY ABOVE BACKSPLASH

POWER PLAN NOTES: (X)

- NEW STRIKE BY G.C. REINSTALL REMOVED CARD READER, INSTALL IN NEW MULLION AND EXTEND WIRING FROM REMOVED DOOR TO THIS LOCATION. PROVIDE NEW DOOR SWITCH AND NEW WIRING FOR ROUGH-IN INFORMATION, SEE SPECIFICATIONS AND DETAIL 4 COORDINATE DISCONNECT OF WIRING WITH DOOR EQUIPMENT IF MULLION IS REMOVABLE.
- FOR RECEPTACLE, DATA, HDMI, AND USB DEVICES.
- PROVIDE NEW CAT 6 DATA DROP ABOVE CEILING FOR EXTERIOR CCTV CAMERA. VERIFY EXACT MOUNTING HEIGHT WITH VENDOR PRIOR TO ROUGH-IN THRU WALL. SEE DETAIL 6
- 4. PROVIDE 120V CONNECTION TO KEYLESS ENTRY EQUIPMENT ABOVE DOOR.



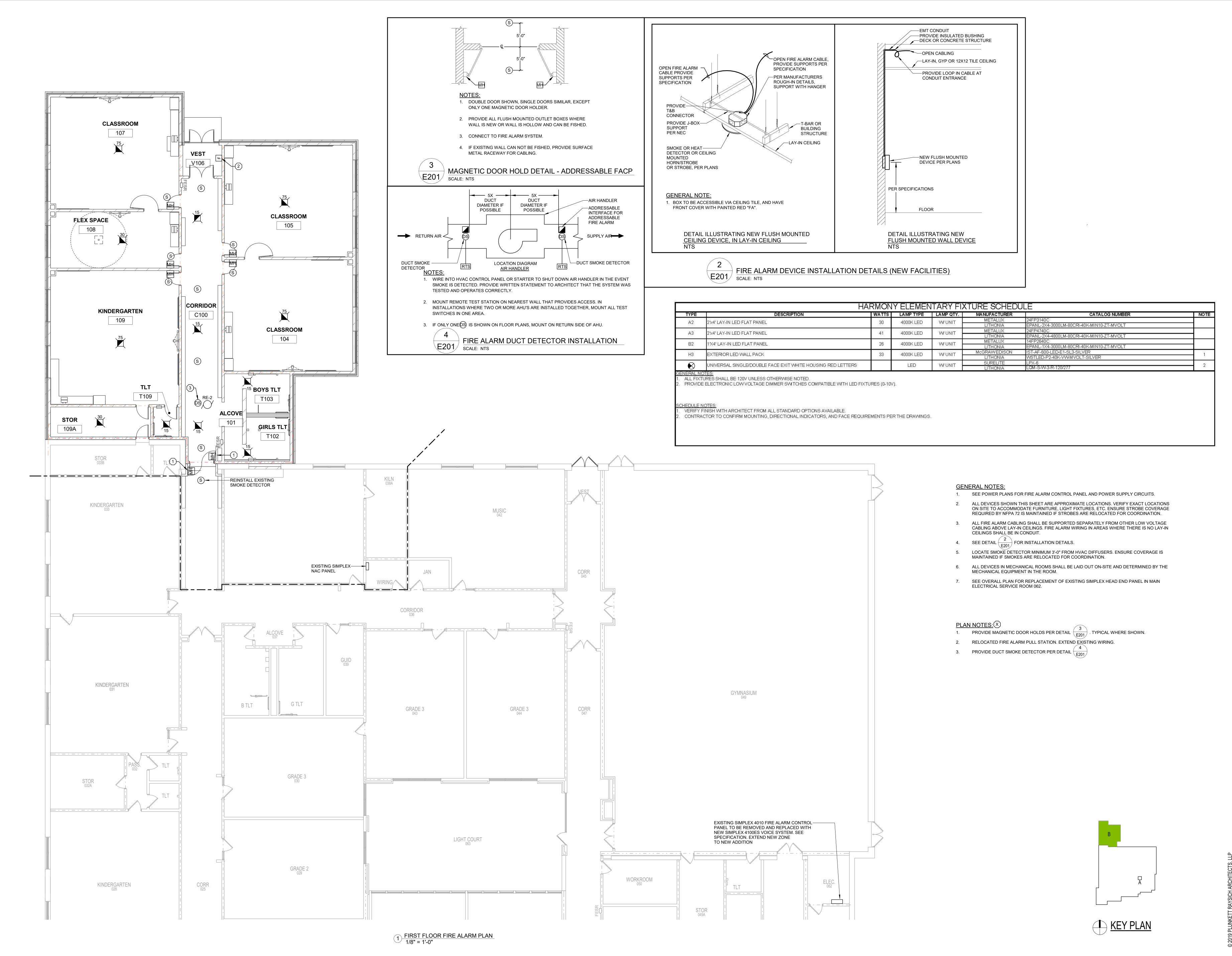
KEY PLAN

CONSTRUCTION DOCUMENTS 190106-05 E200

ADDITION

LEMENT

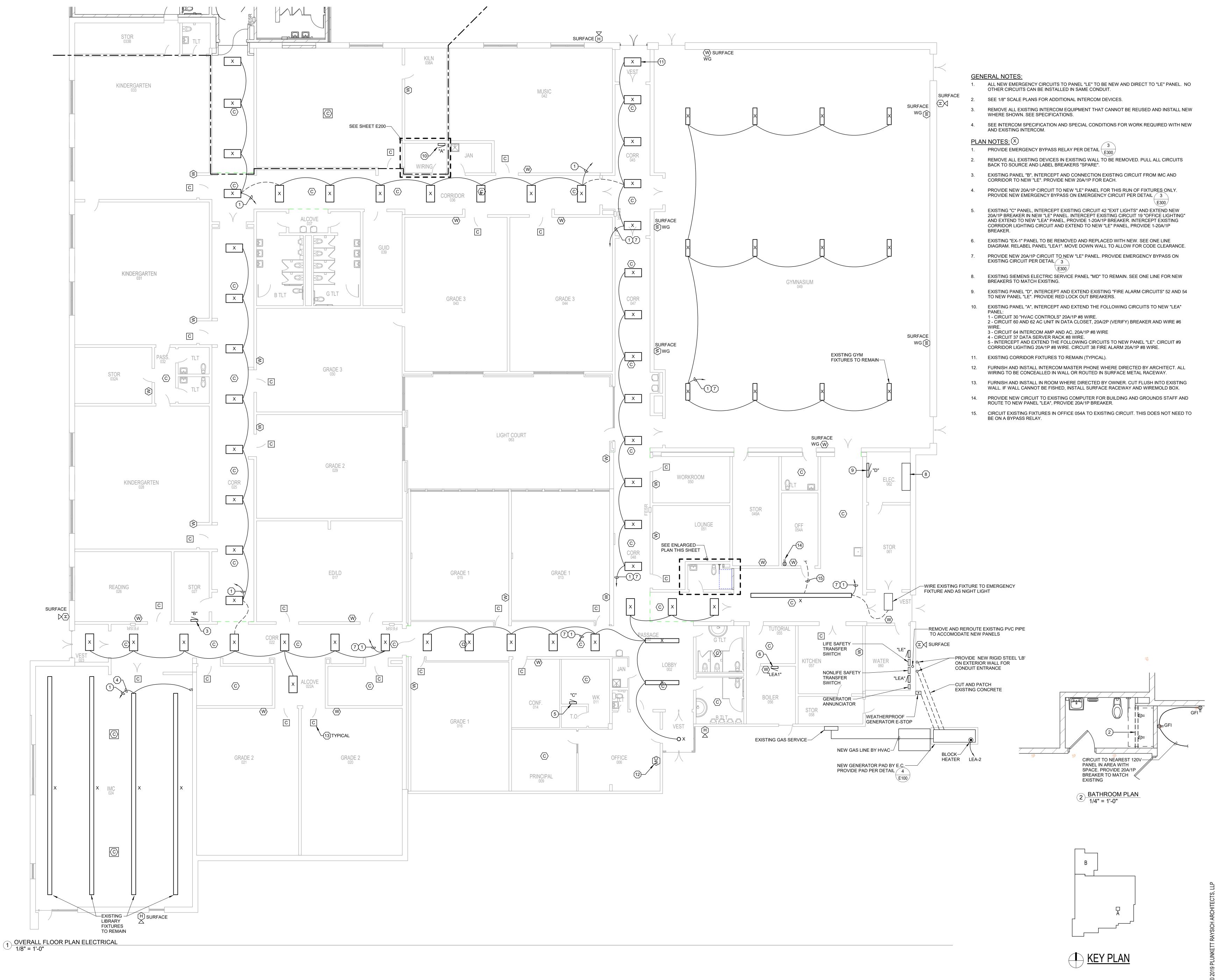
SCHOOL D HARMONY



ADDITION

CONSTRUCTION DOCUMENTS

E201



AWN BY: Author

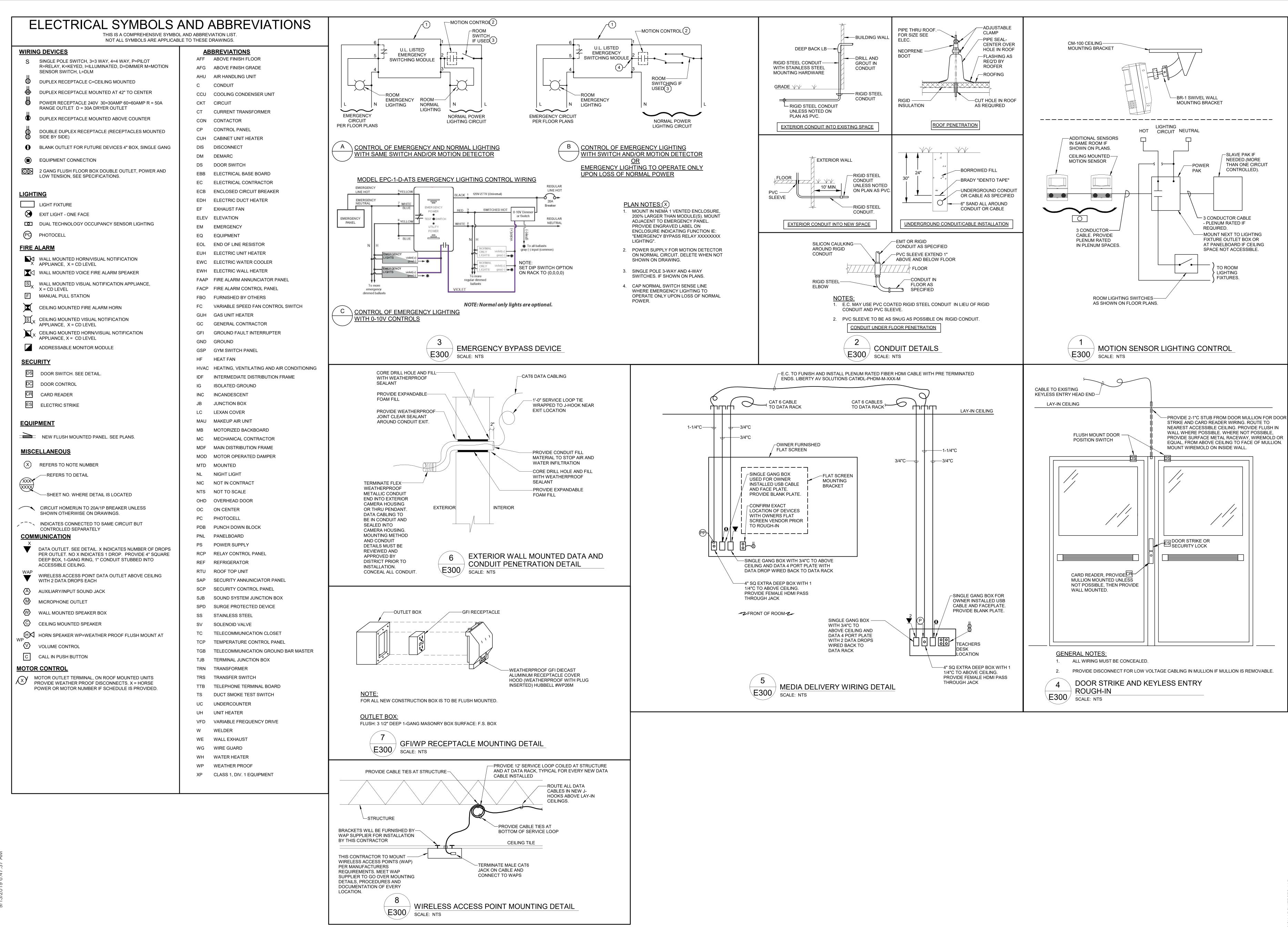
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CONSTRUCTION DOCUMENTS

- MILTON \RY - ADDITION

ELEMENTARY

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CONSTRUCTION DOCUMENTS

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