MODEL

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CHILDREN'S AREA ADDITION

138 E. MAIN STREET, BRADFORD, OH 45308

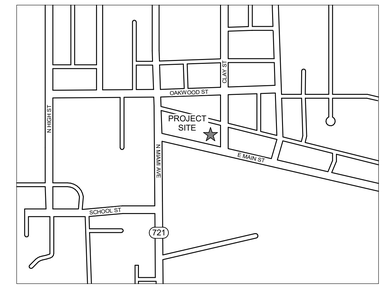
SHP

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6219 Centre Park Drive, West Chester, OH 45069
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N VICINITY MAP
NTS

SYMBOLS & LEGENDS

WORK POINT ELEVATION
DETAIL NUMBER
SHEET NUMBER WHERE SHOWN
INTERIOR ELEVATION NUMBER
SHEET NUMBER WHERE SHOWN
EXTERIOR ELEVATION NUMBER
SHEET NUMBER WHERE SHOWN
SECTION NUMBER
SHEET NUMBER WHERE SHOWN
SHEET NUMBER WHERE SHOWN
SECTION NUMBER
WINDOW TYPE (A, B, C, ETC.)
STOREFRONT TYPE (S1, S2, S3, ETC.)
PARTITION TYPE
CONTROL JOINT (MASONRY)
CONTROL JOINT (GYPSUM BOARD)
EXPANSION JOINT
COLUMN CENTERLINE
KEYNOTE
DOOR NUMBER
CORNER GUARD
SIGN
TOILET BATH ACCESSORY

BD	BOARD
BN	BULLNOSE
CFMF	COLD-FORMED METAL FRAMING
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONT	CONTINUOUS
DEFS	DIRECT-APPLIED EXTERIOR FINISH SYSTEM
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWINGS
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
EQ	EQUAL
EXG	EXISTING
FE	FIRE EXTINGUISHER MOUNTED W/ WALL BRACKET
FEC	FIRE EXTINGUISHER IN CABINET
FT	FOOT OR FEET
GA	GAUGE
GYP BD	GYPSUM BOARD
HR	HOUR
HT	HEIGHT
LGMF	LIGHT GAUGE METAL FRAMING
MO	MASONRY OPENING
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OPP	OPPOSITE HAND
R	RADIUS
RD	ROOF DRAIN
RO	ROUGH OPENING
SIM	SIMILAR
SRD	SECONDARY ROOF DRAIN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WD	WOOD

CMU
BRICK
CMU - SOLID
DRAINAGE FILL
GROUT FILL
EARTH
GYPSUM BOARD
CONTINUOUS WOOD BLOCKING
RIGID INSULATION
BLANKET INSULATION

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STATE OF OHIO
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138 E. MAIN STREET, BRADFORD, OH 45308

ISSUANCES

1	08-25-26	DESIGN DEVELOPMENT
3	10-30-26	BID/PERMIT

TITLE SHEET

COMM NO. 2026032.01

G001

0'-1" REFERENCE LINE

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CODE DATA KEY

BUILDING CODE UTILIZED: 2024 OHIO BUILDING CODE

000 / 000 — EGRESS CAPACITY CALCULATED AT 0.3" PER OCCUPANT (STAIRS) AND 0.2" PER OCCUPANT (OTHER EGRESS ELEMENTS)
ACTUAL LOAD THROUGH EXIT

101 / Name / XXXX / XXXX — DESIGN OCCUPANT LOAD PER OBC TABLE 1004.5 OR MAXIMUM ANTICIPATED OCCUPANT LOAD
ACTUAL OCCUPANT LOAD - BASED ON ACTUAL OCCUPANTS IN EACH ROOM OR SPACE, USED TO DETERMINE PLUMBING FIXTURE REQUIREMENTS AS PERMITTED IN 2902.1 AND HVAC LOADS AS PERMITTED IN ASHRAE 62.1, TABLE 6-1.

CODE DATA PLAN WALL AND DOOR TAG KEY

SOLID BLACK FILL INDICATES FIRE- OR SMOKE-RESISTANCE RATED CONSTRUCTION

2-W — FIRE RESISTANCE RATING (HRS) OR SMOKE (S)
W = WALL
B = FIRE OR SMOKE BARRIER
P = FIRE OR SMOKE PARTITION

90 — DOOR FIRE RESISTANCE RATING (MIN) OR SMOKE (S)

TRAVEL DISTANCE PATH

CEILING RATING EQUAL TO BOUNDING WALL RATING TO CREATE CONTINUOUS RATED ENCLOSURE - WHERE WALLS DO NOT EXTEND TO DECK.



ADDITION

BUILDING CODE COMPLIANCE INFORMATION

OCCUPANCY CLASSIFICATION [OBC CHAPTER 3]	**A-3**	
OBC CONSTRUCTION TYPE [OBC CHAPTER 6]	**2B ADDITION**	
BUILDING SPRINKLERED? [OBC CHAPTER 9]	**NS**	
ALLOWABLE BUILDING HEIGHT [OBC CHAPTER 5]		
Allowable Building Height (OBC Tables 504.3 and 504.4)	65'-0"	2 Stories
ACTUAL BUILDING HEIGHT	20'-4"	1 Story
ALLOWABLE BUILDING AREA [OBC CHAPTER 5]		
Tabular Allowable Area Factor (A_t) (OBC Table 506.2)		11500 SF
Tabular Nonsprinklered Allowable Area (NS)		11500 SF
Frontage Increase Factor (I_f) (OBC Table 506.3.3)	NA (ratio is < 25%)	
Total Building Perimeter	620'-5"	
Building Perimeter that fronts on a Public Way or Open Space with minimum 20ft of width	25'-6" (4%)	
Smallest Public Way or Open Space that is 20 feet or greater	NA (ratio is < 25%)	
Allowable Area per Story [$A_a = A_t + (NS \times I_f)$]		**11500 SF**
ACTUAL AREA PER LARGEST STORY		**2395 SF**
INTERIOR WALL AND CEILING FINISH REQUIREMENTS [OBC Table 803.13]		
Interior exit stairways and ramps and exit passageways	Class B or Better	
Corridors and enclosure for exit access stairways and ramps	Class B or Better	
Rooms and enclosed spaces	Class C or Better	

Comments:

ROOM AND OCCUPANT DATA

NUMBER	NAME	AREA	TYPE	AREA PER OCCUPANT	OCCUPANT LOAD DESIGN LOAD	OCCUPANT LOAD ACTUAL LOAD	NOTES
001	PROGRAM ROOM	228 SF	GROSS	100 SF	3	3	
001A	CHILDREN'S BOOK STACK	1585 SF	GROSS	100 SF	16	16	
002	CORR	49 SF	GROSS	100 SF	1	1	
003	WORKROOM	120 SF	GROSS	150 SF	1	1	
004	TOILET	73 SF	GROSS	0 SF	0	0	
005	CHILDREN'S SEATING	282 SF	NET	5 SF	57	19	
006	TEEN ROOM	331 SF	NET	50 SF	7	7	
007	TEEN STACKS	346 SF	GROSS	100 SF	4	4	
008	HISTORY ROOM	141 SF	NET	7 SF	21	13	
FIRST FLOOR					110	64	
					110	64	

AREA SCHEDULE (CODE PLANS)

FLOOR	AREA
ADDITION	2395 SF

EGRESS TRAVEL DISTANCE

PATH	DISTANCE	PATH TYPE
1	133'-9"	
2	85'-3"	

N

1 / G101 CODE PLAN
1/8" = 1'-0"

0'-1" REFERENCE LINE

ISSUANCES

1	08-26-26	DESIGN DEVELOPMENT
3	10-30-26	BID/PERMIT

CODE DATA SHEET

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GENERAL NOTES

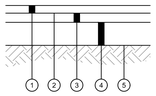
1. THE VILLAGE OF BRADFORD, AND THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS), INCLUDING ALL SUPPLEMENTS, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THIS PLAN. IGNORE REFERENCES TO MEASUREMENT AND PAYMENT IN THE ODOT CMS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICTS BETWEEN THE ODOT CMS AND THE VILLAGE OF BRADFORD REQUIREMENTS, THE VILLAGE OF BRADFORD REQUIREMENTS SHALL PREVAIL.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (8-1-1 OR 1-800-362-2764) 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES WHO ARE NON-MEMBERS OF THE OHIO UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
3. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
4. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS.
5. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FULLY INFORM THEMSELVES CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE THEM FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE CONTRACT.
6. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR EXPENSES INCURRED DUE TO SOIL CONDITIONS, GROUNDWATER, AND/OR ROCK EXCAVATION, ALL OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
7. THE COST OF ALL DEWATERING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
8. THE DIRECT OR INDIRECT DISCHARGE OR PUMPING OF UNFILTERED SEDIMENT-LADEN WATER INTO THE STORM DRAINAGE SYSTEM OR WATERCOURSE IS ILLEGAL AND PROHIBITED.
9. ANY WELL, WELL POINT, PIT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE OR IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN AS DIRECTED BY THE DIRECTOR OF PUBLIC UTILITIES OR HIS REPRESENTATIVE.
10. ANY CONTRACTOR INSTALLING ANY WELL, WELL POINT, PIT, OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUND WATER FROM AN AQUIFER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR), DIVISION OF WATER, WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH THE OHIO REVISED CODE SECTION 1521.01 AND 1521.05 IN ADDITION, ANY SUCH FACILITY IS COMPLETED IN ACCORDANCE WITH SECTION 1521.16 OF THE OHIO REVISED CODE. FOR COPIES OF THE NECESSARY WELL LOG, DRILLING REPORT, OR REGISTRATION FORMS, PLEASE CONTACT: OHIO DEPARTMENT OF NATURAL RESOURCES, 2045 MORSE ROAD, COLUMBUS, OHIO 43229, 614-265-6576.
11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE ODNR FOR THE REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY WITHDRAWAL DEVICE USED IN CONSTRUCTION OF THIS PROJECT.
12. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED.
13. ALL SITE SIGNAGE, STRIPING COLOR AND WIDTH SHALL BE PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
14. ALL EXISTING PAVEMENTS, WALKS, CURBS, ETC. SHALL BE FULL DEPTH SAWCUT BEFORE REMOVAL, IF, DURING CONSTRUCTION, THE PAVEMENT, WALKWAY, CURB, ETC, IS DAMAGED BEYOND THE ORIGINAL SAWCUT, THE DAMAGED AREA SHALL BE RECUT TO NEAT LINES AS DIRECTED BY THE ENGINEER, PAYMENT FOR SAWCUTTING SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
15. THE CONTRACTOR SHALL FULL DEPTH SAWCUT EXISTING PAVEMENT TO PROVIDE A SMOOTH VERTICAL FULL DEPTH BUTT JOINT BETWEEN THE EXISTING PAVEMENT OR CURB AND THE PROPOSED PAVEMENT. CONTRACTOR SHALL LOCATE SOUND PAVEMENT EDGE AND CUT AND TRIM PAVEMENT TO A NEAT LINE, INCLUDE THE COST OF PAVEMENT REMOVAL AND DISPOSAL IN THE PRICE BID FOR THE PROJECT.

GRADING NOTES

1. CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
2. PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
3. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
4. SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING & STRIPPING UNSUITABLE MATERIAL FROM PAD SITE. THEN PLACE & COMPACT BACKFILL MATERIAL AT GEOTECHNICAL ENGINEER'S AND ARCHITECT'S RECOMMENDATIONS. ALL BACKFILL MATERIAL MUST BE ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.
5. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK ON SITE BY IMPORTING/EXPORTING DIRT AS NECESSARY.
7. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY VILLAGE OF BRADFORD AND THE OHIO EPA.
8. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE ODOT ITEM 659.
9. CONTRACTOR TO LAYOUT BUILDING BASED ON ARCHITECTURAL/FOUNDATION PLANS, SITE PLAN IS FOR CONCEPTUAL PURPOSES ONLY.

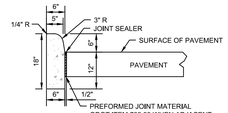
UTILITY NOTES

1. ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING, THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUBDRAIN. STORM SEWER SYSTEM OR OUTLETTED INTO THE ROADWAY DITCH AS APPLICABLE. REPLACED DRAIN TILE/STORM SEWER SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM. REPLACEMENT SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
2. ALL EXISTING UTILITIES KNOWN TO EXIST HAVE BEEN SHOWN ON THESE PLANS IN THEIR APPROXIMATE LOCATION, PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE UTILITIES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ANY UTILITIES THAT MAY EXIST AND ARE NOT SHOWN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
4. UTILITY POLES WITHIN INFLUENCE OF THE UTILITY OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO THESE CONSTRUCTION ACTIVITIES. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
6. CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PLANS.
7. ALL CATCH BASINS PLACED WITHIN THE PAVEMENT SHALL HAVE HEAVY DUTY FRAMES AND GRATES, CATCH BASINS WITHIN AN ACCESSIBLE ROUTE SHALL CONFORM TO ADA REQUIREMENTS.
8. ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED.
9. ALL CATCH BASINS WITH DEPTH GREATER THAN 6' SHALL BE PROVIDED WITH STEPS, STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
10. ALL STORM AND SANITARY SEWER MANHOLES WITH A DEPTH GREATER THAN 6' SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
11. DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR STORM AND SANITARY STRUCTURES ARE SHOWN TO THE CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
12. IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC.
13. ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER. EROSION CONTROL MEASURES MUST PROVIDE PROTECTION UNTIL COMPLETION OF THE PROJECT AND VEGETATIVE STABILIZATION.
14. THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTIONS ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.
15. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
16. SITE CONTRACTOR SHALL PICK UP ALL UTILITIES, WITH THE EXCEPTION OF DOWNSPOUTS, 5' OUTSIDE BUILDING WALL. COORDINATE WITH CONSTRUCTION MANAGER.
17. ALL STORM STRUCTURES ARE ODOT TYPES UNLESS OTHERWISE INDICATED.
18. STORM SEWER PIPE LABELED "STM" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35 PER ODOT ITEM 707.45, PVC PROFILE PIPE PER ODOT ITEM 707.43, HIGH DENSITY POLYETHYLENE PER ODOT ITEM 707.33, ALUMINIZED CORRUGATED METAL, ODOT ITEM 707.01, 707.02, OR REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. ALL STORM IS TO BE INSTALLED PER ODOT ITEM 611, ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.013 (N=0.013) OR LESS.
19. ALL CATCH BASINS IN THE PAVEMENT ARE TO HAVE 4, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED. ALL CATCH BASINS IN THE CURB ARE TO HAVE 2, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED.
20. FOR EXACT LOCATION OF DOWN SPOUTS & ROOF DRAINS, COORDINATE WITH CONSTRUCTION MANAGER. ALL ROOF DRAINS ARE TO BE 8" UNLESS OTHERWISE NOTED.
21. ALL YARD DRAINS SHALL BE ONE OF THE FOLLOWING: NYLOPLAST-ADS DRAIN BASIN, NDS DURACAST FABRICATED PVC CATCH BASIN, AGRI-DRAIN CATCH BASIN, OR APPROVED EQUAL.
22. ALL EXISTING INVERTS ALONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER.
23. ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS IN AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.
24. THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER.

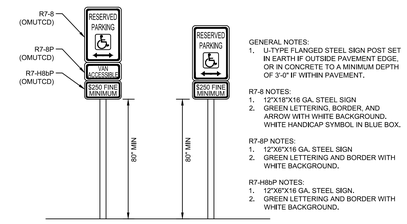


1. 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
2. ODOT ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
3. 2" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
4. 8" ODOT ITEM 304 AGGREGATE BASE
5. SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

STANDARD DUTY ASPHALT PAVEMENT DETAIL
1 C100 N.T.S.



BARRIER CURB DETAIL
2 C100 N.T.S.



GENERAL NOTES:
1. 1-LTYPE FLANGED STEEL SIGN POST SET IN EARTH IF OUTSIDE PAVEMENT EDGE, OR IN CONCRETE TO A MINIMUM DEPTH OF 3'-0" IF WITHIN PAVEMENT.

R7-8 NOTES:
1. 12"X18"X16 GA. STEEL SIGN
2. GREEN LETTERING, BORDER, AND ARROW WITH WHITE BACKGROUND, WHITE HANDICAP SYMBOL IN BLUE BOX.

R7-8P NOTES:
1. 12"X9"X16 GA. STEEL SIGN
2. GREEN LETTERING AND BORDER WITH WHITE BACKGROUND.

R7-H8bP NOTES:
1. 12"X9"X16 GA. STEEL SIGN.
2. GREEN LETTERING AND BORDER WITH WHITE BACKGROUND.

NOTE:
1. ONE ACCESSIBLE PARKING SPACE FOR EVERY SIX OR FRACTION THERE OF SHALL BE DESIGNATED AS "VAN ACCESSIBLE". LOCATION AS NOTED ON THE DRAWINGS.
2. ONE SIGN TO BE INSTALLED AT EACH ACCESSIBLE PARKING SPACE

ACCESSIBLE PARKING SIGN DETAIL
3 C100 NTS

NOTES:

GENERAL

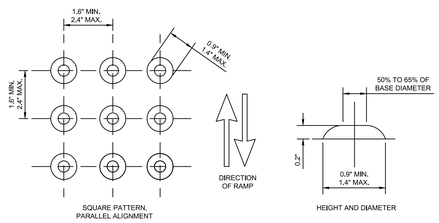
1. DETECTABLE WARNINGS ARE A DISTINCTIVE SURFACE PATTERN OF TRUNCATED DOMES WHICH ARE DETECTABLE BY CANE OR UNDERFOOT TO ALERT PEOPLE WITH VISION IMPAIRMENTS OF THEIR APPROACH TO STREETS AND HAZARDOUS DROP-OFFS.

PLACEMENT

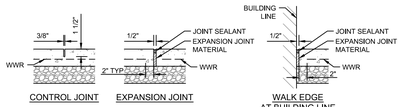
2. DETECTABLE WARNINGS ARE TO BE INSTALLED AT ANY LOCATION WHERE PEDESTRIANS MIGHT CROSS PATHS WITH VEHICULAR TRAFFIC LANES, SUCH AS THE BASE OF CURB RAMPS OR AT BLENDED CURBS. A 24" STRIP OF DOMES IS TO BE INSTALLED FOR THE FULL WIDTH OF THE RAMP OR WALK.
3. THE DEPTH OF CONCRETE UNDERNEATH DETECTABLE WARNING PRODUCTS SHALL BE A MINIMUM OF 4".

PRODUCTS & COLORS

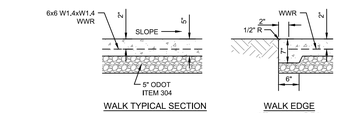
4. COLOR OF THE DETECTABLE WARNINGS SHOULD CONTRAST WITH SURROUNDING CONCRETE WALK AND RAMP. BLACK IS NOT AN ACCEPTABLE COLOR. APPROVED PRODUCTS AND GUIDANCE ON COLOR MAY BE FOUND ON THE ODOT OFFICE OF ROADWAY ENGINEERING SERVICE'S DETECTABLE WARNINGS APPROVED LIST. INSTALL PRODUCTS AS PER MANUFACTURER'S PRINTED INSTRUCTIONS.



DETECTABLE WARNINGS DETAIL
4 C100 N.T.S.



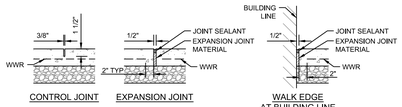
CONTROL JOINT EXPANSION JOINT WALK EDGE AT BUILDING LINE



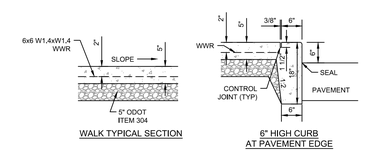
WALK TYPICAL SECTION WALK EDGE AT LAWN AREA

NOTES:
1. INSTALL EXPANSION JOINTS AT 30' OC MAXIMUM AND WHERE SLAB ABUTS STRUCTURES, WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING WALK TO NEAREST JOINT AND INSTALL EXPANSION JOINT, EXPANSION JOINTS SHALL BE 1/2" WIDE BY DEPTH OF SLAB. SEAL ALL EXPANSION JOINTS.
2. INSTALL CONTROL JOINTS AT 6' OC MAXIMUM. CONTROL JOINTS SHALL BE 3/8" WIDE BY 1 1/2" DEEP AND TOOLED, SAWED JOINTS ARE NOT PERMITTED.
3. WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%, MAXIMUM CROSS SLOPE OF 2.00%.
4. WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH WITH THE FINAL SURFACE.
5. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING DOORS.
6. JOINTING PLANS MUST BE SUBMITTED FOR APPROVAL.

EXTERIOR CONCRETE SLAB WALK DETAIL
5 C100 N.T.S.



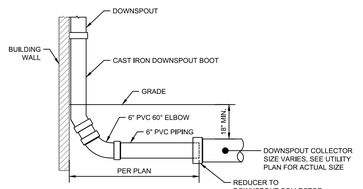
CONTROL JOINT EXPANSION JOINT WALK EDGE AT BUILDING LINE



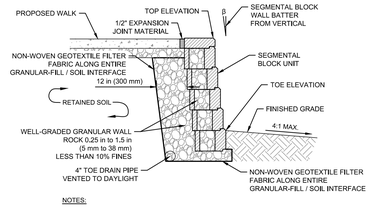
WALK TYPICAL SECTION 6" HIGH CURB AT PAVEMENT EDGE

NOTES:
1. INSTALL EXPANSION JOINTS AT 30' OC MAXIMUM AND WHERE SLAB ABUTS STRUCTURES, WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING WALK TO NEAREST JOINT AND INSTALL EXPANSION JOINT, EXPANSION JOINTS SHALL BE 1/2" WIDE BY DEPTH OF SLAB. SEAL ALL EXPANSION JOINTS.
2. INSTALL CONTROL JOINTS AT 6' OC MAXIMUM. CONTROL JOINTS SHALL BE 3/8" WIDE BY 1 1/2" DEEP AND TOOLED, SAWED JOINTS ARE NOT PERMITTED.
3. WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%, MAXIMUM CROSS SLOPE OF 2.00%.
4. WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH WITH THE FINAL SURFACE.
5. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING DOORS.
6. JOINTING PLANS MUST BE SUBMITTED FOR APPROVAL.

EXTERIOR CONCRETE SLAB WALK WITH INTEGRAL CURB DETAIL
6 C100 N.T.S.

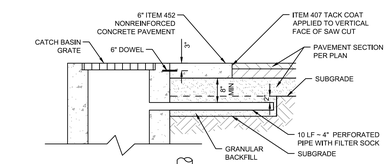


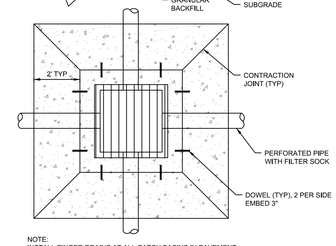
DOWNSPOUT BOOT DETAIL
7 C100 N.T.S.



NOTES:
1. SUBMIT SAMPLES OF WALL AND CAP UNITS FOR ARCHITECT'S APPROVAL.
2. CONSTRUCT FIELD MOCK-UP PRIOR TO INSTALLATION FOR ARCHITECT'S APPROVAL AS SPECIFIED.
3. CONSTRUCT WALLS PER MANUFACTURER'S SPECIFICATIONS.
4. SEE SHEET C150 FOR WALL GRADES.

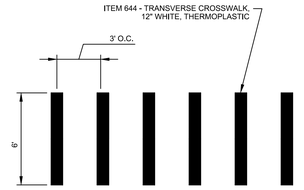
SEGMENTAL RETAINING WALL DETAIL
8 C100 N.T.S.





NOTE:
INSTALL FINGER DRAINS AT ALL CATCH BASINS IN PAVEMENT

FINGER DRAIN AND CATCH BASIN CONCRETE APRON DETAIL
9 C100 N.T.S.



CROSWALK DETAIL
10 C100 N.T.S.

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GENERAL NOTES & DETAILS

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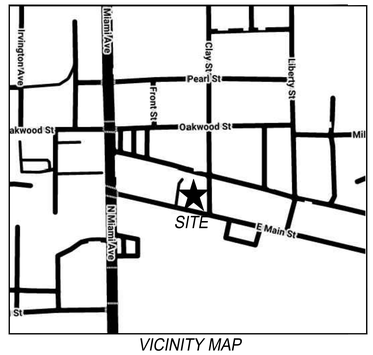
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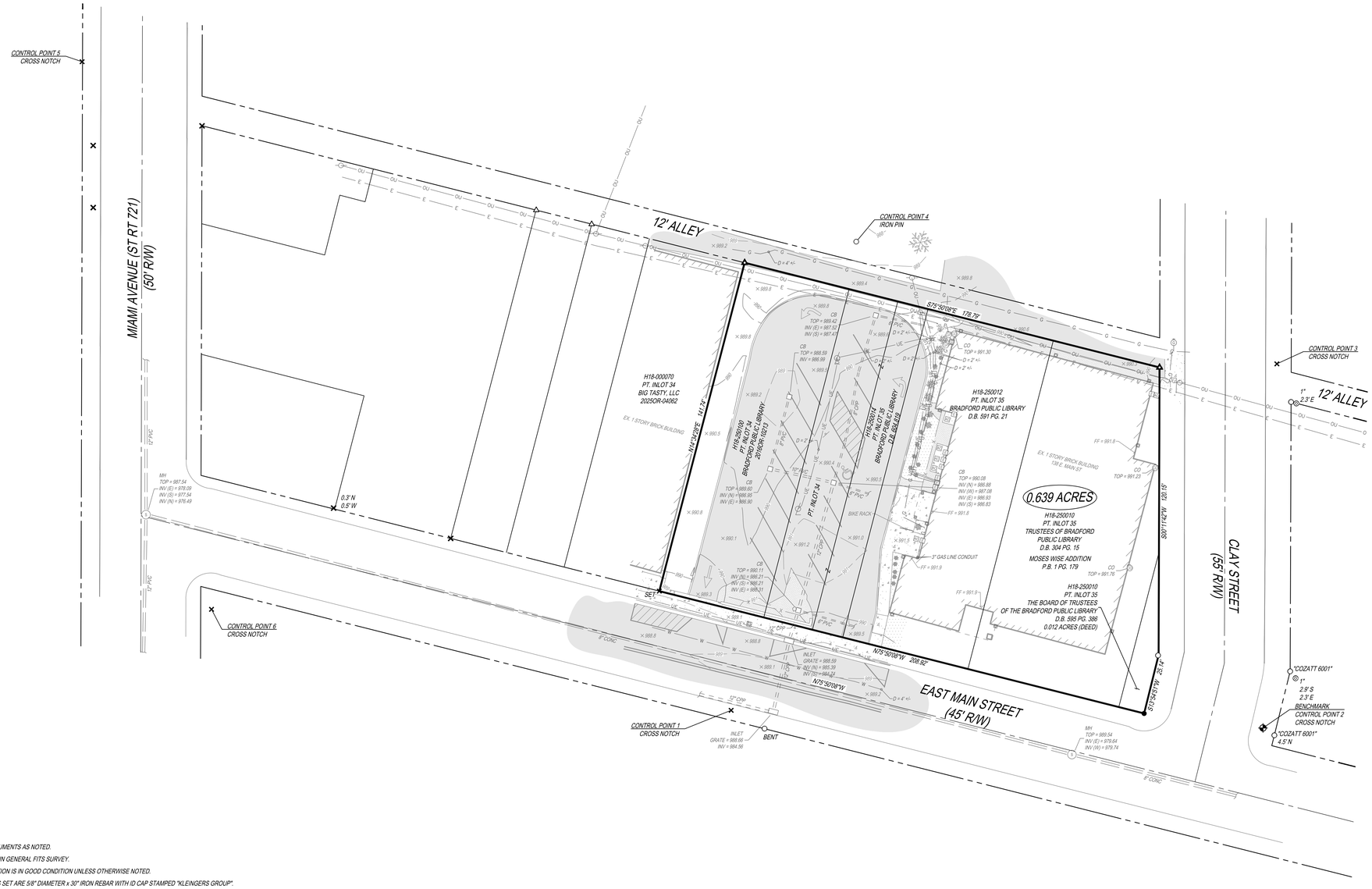
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SITE CONTROL			
POINT #	NORTHING	EASTING	DESCRIPTION
CONTROL POINT 1	782,312.02	1,428,850.00	TRAV CN
CONTROL POINT 3	782,456.76	1,429,078.04	TRAV CN
CONTROL POINT 4	782,507.82	1,428,902.27	TRAV IP
CONTROL POINT 5	782,582.98	1,428,578.84	TRAV CN
CONTROL POINT 6	782,354.22	1,428,632.89	TRAV CN

SITE CONTROL & BENCHMARK				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
CONTROL POINT 2	782,304.64	1,429,072.22	990.44	TRAV CN



VICINITY MAP
N.T.S



LEGEND:

- BENCHMARK
- 5/8" IRON PIN FOUND (UNLESS NOTED OTHERWISE)
- 5/8" IRON PIN SET (KLEINGERS GROUP)
- MAG NAIL FOUND
- MAG NAIL SET
- CROSS NOTCH FOUND (UNLESS NOTED OTHERWISE)
- IRON PIPE FOUND (SIZE AS NOTED)
- SANITARY MANHOLE
- CLEANOUT
- CATCH BASIN
- INLET
- DOWNSPOUT
- ELECTRIC BOX
- ELECTRIC METER
- A/C UNIT
- LIGHT POLE
- UTILITY POLE
- LAMP POST
- GAS METER
- GAS VALVE
- GUARD POST
- SINGLE POST SIGN
- HANDICAP
- FENCE LINE
- WATER LINE
- GAS LINE
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- OVERHEAD ELECTRIC
- OVERHEAD UTILITIES
- STORM SEWER
- SANITARY SEWER
- BUSH
- ASPHALT
- CONCRETE
- GRAVEL
- LANDSCAPE

NOTES:

1. SOURCE DOCUMENTS AS NOTED.
2. OCCUPATION IN GENERAL FITS SURVEY.
3. MONUMENTATION IS IN GOOD CONDITION UNLESS OTHERWISE NOTED.
4. ALL IRON PINS SET ARE 5/8" DIAMETER x 30" IRON REBAR WITH ID CAP STAMPED "KLEINGERS GROUP".
5. DISTANCE UNITS ARE BASED ON THE US SURVEY FOOT DEFINITION (1" = 1200/3937 METERS).
6. BEARINGS SHOWN HEREON ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AND NORTH AMERICAN DATUM OF 1983 (2011) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "SIDN & OHDR" WITH A BEARING OF N75°50'08"W AS SHOWN ALONG THE CENTERLINE OF EAST MAIN STREET.
7. PROJECT COORDINATES ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM AND HAVE BEEN SCALED TO GROUND BY USING A PROJECT ADJUSTMENT FACTOR OF 1.000021164645 APPLIED AT A BASE POINT OF N: 782,304.64 E:1,429,072.22. GRID AND GROUND COORDINATES ARE IDENTICAL AT THE BASE POINT.
8. ALL ELEVATIONS ARE ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATIONS "SIDN & OHDR" USING GEOID CONUS 18.
9. SITE BENCHMARK AS SHOWN HEREON.
10. DEPTHS LISTED FOR ANY UTILITY LINES HEREON ARE APPROXIMATIONS ONLY AND MAY NOT REPRESENT ACTUAL DEPTHS OF LINES. DEPTHS WERE PROVIDED BY A PRIVATE UTILITY LOCATING COMPANY UTILIZING SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL C. THERE ARE MANY FACTORS THAT CAN COMPLICATE THE ACQUISITION OF THESE DEPTHS INCLUDING BUT NOT LIMITED TO SOIL TYPES, SOIL COMPACTION, EQUIPMENT USED TO PROVIDE DEPTHS, AND TYPE OF PIPE AND/OR UTILITY IN THE GROUND. FOR A MORE ACCURATE DEPTH OF ANY UTILITY LINES, IT MAY BE NECESSARY TO INCORPORATE SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL A (EXPOSURE OF UTILITY LINES) VIA VACUUM EXCAVATION OR OTHER CONSTRUCTION MEANS. THE KLEINGERS GROUP MAKES NO GUARANTEES OF THESE DEPTHS LISTED HERE ON.

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAT OF SURVEY WAS PREPARED UNDER MY DIRECTION AND IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE CHAPTER 4733-37 "MINIMUM STANDARDS FOR BOUNDARY SURVEYS". ALL MONUMENTATION HAS BEEN SET AS SHOWN.

STATE OF OHIO
ADAM
IGEL
S-8952
REGISTERED
PROFESSIONAL SURVEYOR

Adam R Igel 9/10/2026

ADAM R. IGEL — DATE
OHIO PROFESSIONAL SURVEYOR NO. 8952

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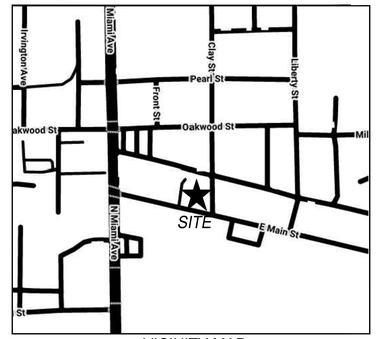
SURVEY BASEMAP

DATE 09-14-26

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VICINITY MAP
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7/29/2026
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LEGEND:

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- 5/8" IRON PIN FOUND (UNLESS NOTED OTHERWISE)
- 5/8" IRON PIN SET (KLEINGERS GROUP)
- MAG NAIL FOUND
- MAG NAIL SET
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- IRON PIPE FOUND (SIZE AS NOTED)
- SANITARY MANHOLE
- CLEANOUT
- CATCH BASIN
- INLET
- DOWNSPOUT
- ELECTRIC BOX
- ELECTRIC METER
- A/C UNIT
- LIGHT POLE
- UTILITY POLE
- LAMP POST
- GAS METER
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- OVERHEAD UTILITIES
- STORM SEWER
- SANITARY SEWER
- BUSH
- ASPHALT
- CONCRETE
- GRAVEL
- LANDSCAPE

NOTE:
THE INFORMATION SHOWN ON THIS SHEET WAS COMPILED PRIMARILY FROM THE TOPOGRAPHIC SURVEY COMPLETED BY THE KLEINGERS GROUP IN AUGUST 2026 AND SUPPLEMENTED WITH RECORD DRAWING INFORMATION FROM THE 2003 ADDITION & REMODELING WORK TO THE LIBRARY AS WELL AS VISUAL OBSERVATIONS OF THE EXISTING CONDITIONS AT THE SITE IN SEPTEMBER 2026.

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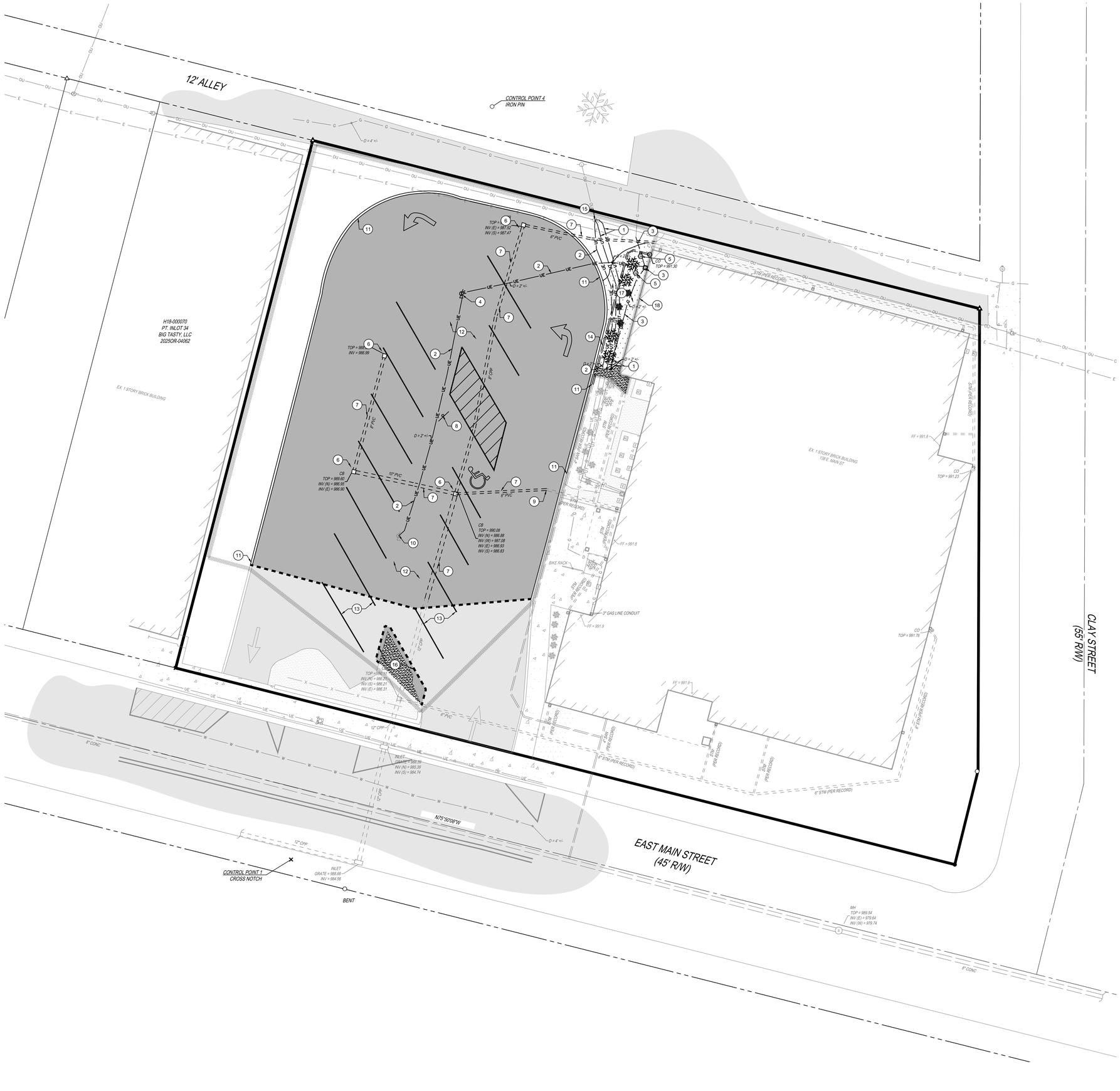
EXISTING CONDITIONS

DATE 09-14-26

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DEMOLITION LEGEND

- REMOVE GRAVEL
- REMOVE LANDSCAPE BED
- REMOVE ASPHALT PAVEMENT
- SAWCUT LINE
- DEMOLITION LIMITS

DEMOLITION PLAN GENERAL NOTES

1. ALL BOLD ITEMS WITHIN THE DEMOLITION LIMITS TO BE REMOVED.

DEMOLITION PLAN KEY NOTES

1. REMOVE UNDERGROUND TELECOM LINES. REFER TO ELECTRICAL PLANS FOR DETAILS.
2. REMOVE UNDERGROUND ELECTRIC LINES. REFER TO ELECTRIC PLANS FOR DETAILS.
3. REMOVE GAS LINE AND GAS METER. REFER TO MEP PLANS FOR DETAILS.
4. REMOVE LIGHT POLE
5. REMOVE BOLLARDS
6. REMOVE CATCH BASIN
7. REMOVE STORM PIPING
8. REMOVE SIGN
9. REMOVE 6" STORM PIPE TO EXTENTS INDICATED. REFER TO UTILITY PLAN FOR RECONNECTION TO PROPOSED STORM SYSTEM.
10. LIGHT POLE TO REMAIN, PROTECT DURING CONSTRUCTION.
11. REMOVE CURB TO EXTENTS INDICATED
12. SALVAGE (11) WHEEL STOPS FOR USE IN FINAL CONDITION
13. REMOVE STRIPING ON ASPHALT THAT IS TO REMAIN
14. REMOVE SANITARY TO EXTENTS INDICATED. REFER TO PLUMBING PLAN FOR DETAILS.
15. UTILITY POLE TO BE RELOCATED BY OTHERS
16. SAWCUT ASPHALT TO CREATE CLEAN EDGE AND REMOVE EXISTING GRAVEL FOR PROPOSED ASPHALT PAVEMENT WORK.
17. REMOVE LANDSCAPING NECESSARY FOR PROPOSED WORK
18. REFER TO ARCHITECTURAL DEMO PLAN FOR DEMOLITION WORK OF THE EXISTING BUILDING.

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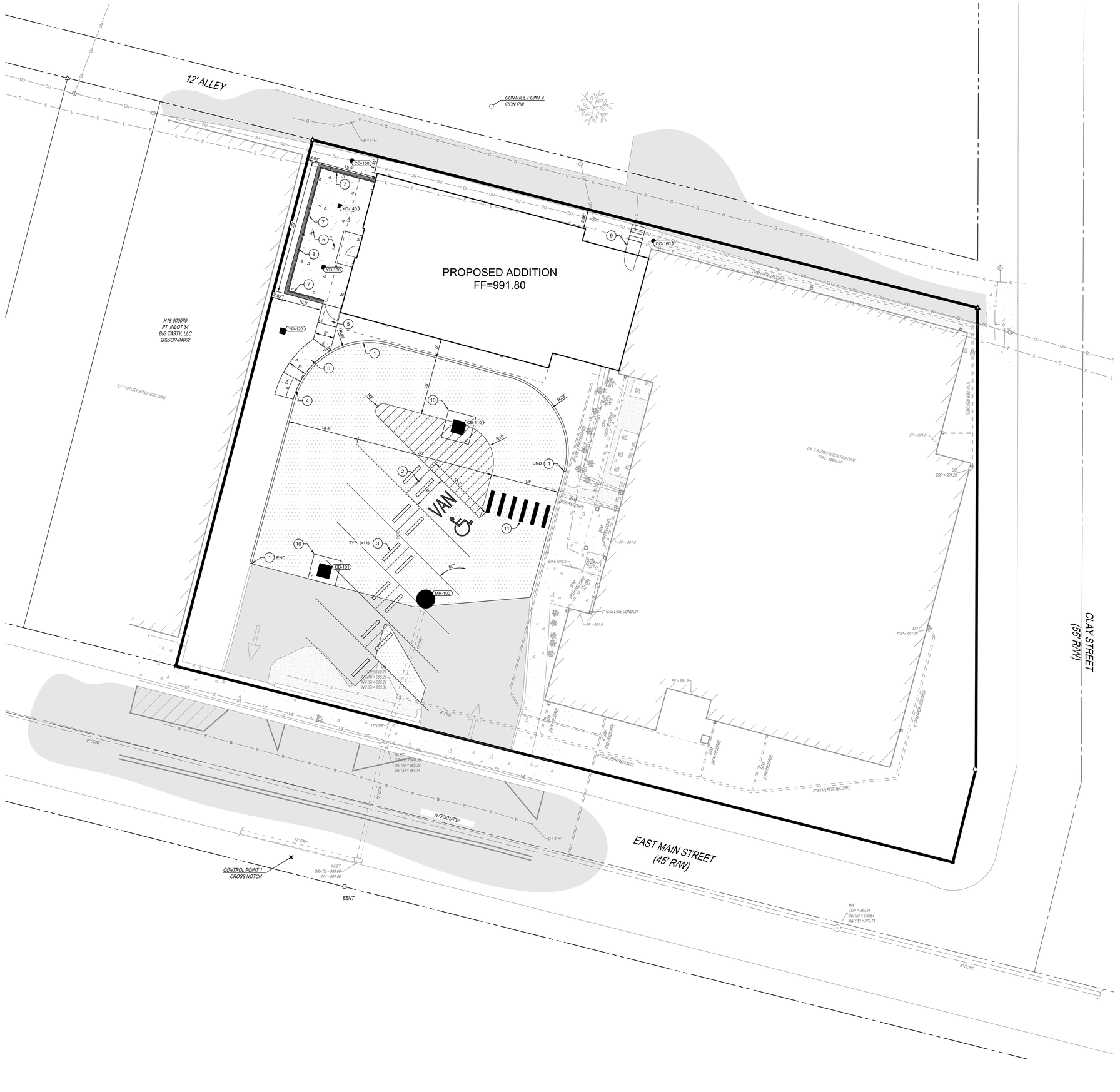
DEMOLITION PLAN

DATE 09-14-26

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PROPOSED LEGEND

- CATCH BASIN
- CURB INLET
- YARD DRAIN
- HEADWALL
- MANHOLE
- STORM SEWER CLEANOUT
- DOWNSPOUT
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- FIRE HYDRANT
- WATER VALVE
- POST INDICATOR VALVE
- FIRE DEPARTMENT CONNECTION
- STANDARD DUTY ASPHALT PAVEMENT, DETAIL 1/C100
- CONCRETE WALK, DETAILS 5-6/C100

LOCATION PLAN GENERAL NOTES

A. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR BACK OF CURB UNLESS OTHERWISE NOTED
B. ALL STANDARD PARKING SPACES ARE TO BE 9'x18.2' ANGLED 60° UNLESS OTHERWISE NOTED
C. PARKING LOT STRIPING SHALL BE 4" WIDE HIGHWAY-TYPE APPLIED IN ACCORDANCE WITH THE PLAN

LOCATION PLAN KEY NOTES

1. BARRIER CURB PER DETAIL 2/C100
2. ACCESSIBLE PARKING SIGN PER DETAIL 3/C100
3. SALVAGED WHEEL STOPS
4. DETECTABLE WARNING PER DETAIL 4/C100
5. CONCRETE WALK PER DETAIL 5/C100
6. INTEGRAL CURB & WALK PER DETAIL 6/C100, RAMP SIDEWALK DOWN FROM 6" CURB REVEAL TO FLUSH, REFER TO GRADING PLAN FOR ELEVATIONS.
7. RETAINING WALL PER DETAIL 8/C100. REFER TO GRADING PLAN FOR ELEVATIONS.
8. FENCE/RAILING ALONG PERIMETER OF CONCRETE PATIO, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
9. EXTERIOR LANDING AND STEPS, REFER TO ARCHITECTURAL PLAN FOR DETAILS.
10. CATCH BASIN CONCRETE APRON PER DETAIL 9/C100
11. CROSSWALK PER DETAIL 10/C100

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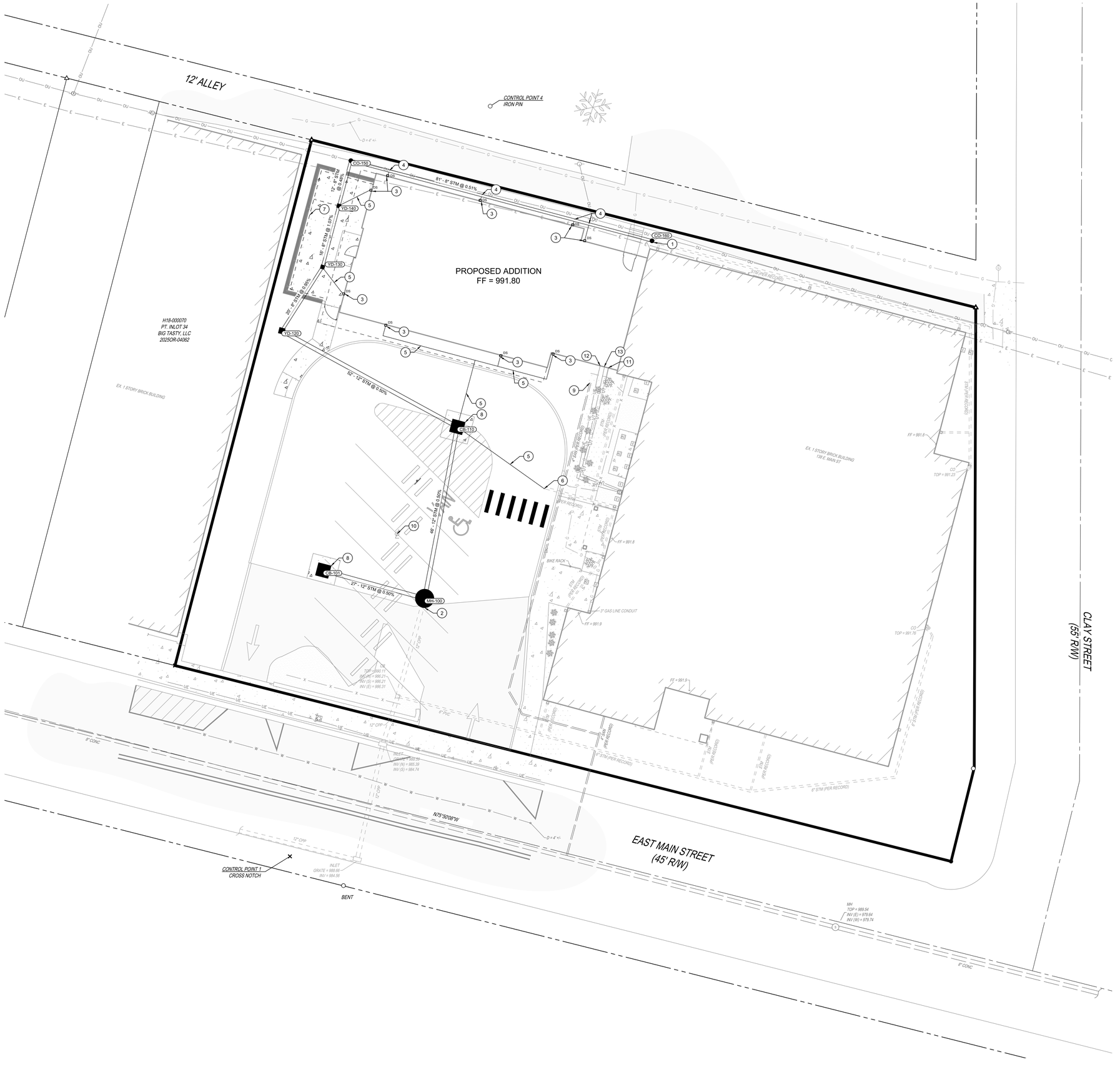
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LOCATION PLAN

DATE 09-14-26

COMM NO. 2026032.01

C130



UTILITY PLAN LEGEND

- STM — STORM SEWER PIPE
- CB — CATCH BASIN
- YD — YARD DRAIN
- MH — MANHOLE
- DS — DOWNSPOUT

UTILITY PLAN KEY NOTES

1. CONNECT EXISTING DOWNSPOUT COLLECTOR TO PROPOSED DOWNSPOUT COLLECTOR PIPE.
2. CONNECT EXISTING STORM PIPE INTO NEW MANHOLE.
3. DOWNSPOUT BOOT PER DETAIL 7/C100
4. BLIND-TIE DOWNSPOUT INTO STORM PIPE
5. 8" DOWNSPOUT COLLECTOR, MINIMUM 18" COVER AND 1.0% SLOPE.
6. TIE EXISTING DOWNSPOUT COLLECTOR PIPE INTO PROPOSED COLLECTOR PIPE.
7. 4" WALL UNDERDRAIN PER DETAIL 8/C100 CONNECTING TO YARD DRAIN 140
8. FINGER DRAINS AND CATCH BASIN CONCRETE APRON PER DETAIL 9/C100
9. REFER TO PLUMBING PLAN FOR SANITARY CONNECTION TO PROPOSED ADDITION
10. REFER TO ELECTRIC PLAN FOR RE-FEEDING CONDUIT TO EXISTING LIGHT POLE
11. REFER TO PLUMBING PLAN FOR GAS CONNECTION TO PROPOSED ADDITION
12. REFER TO ELECTRIC PLAN FOR ELECTRIC CONDUIT CONNECTION TO PROPOSED ADDITION
13. REFER TO TECHNOLOGY PLAN FOR TELECOM CONDUIT CONNECTION TO PROPOSED ADDITION

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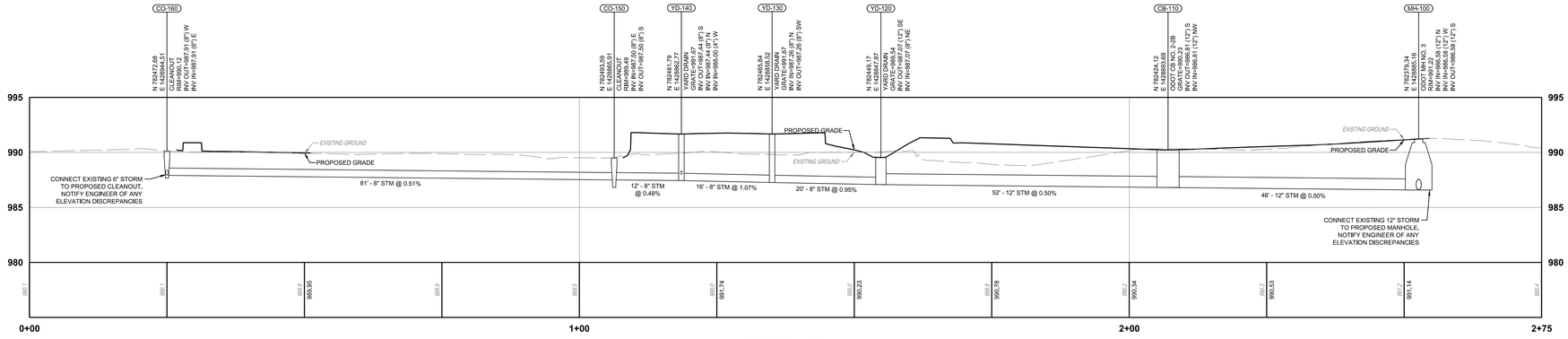
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UTILITY PLAN

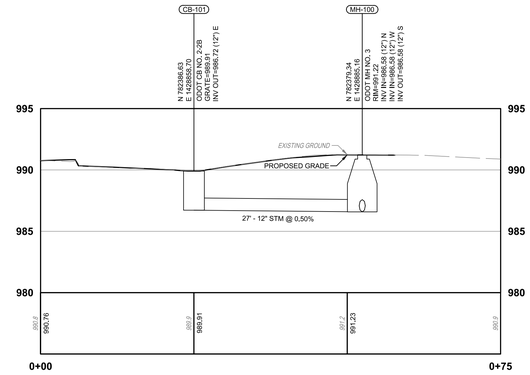
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STM 160-100



STM 101-100

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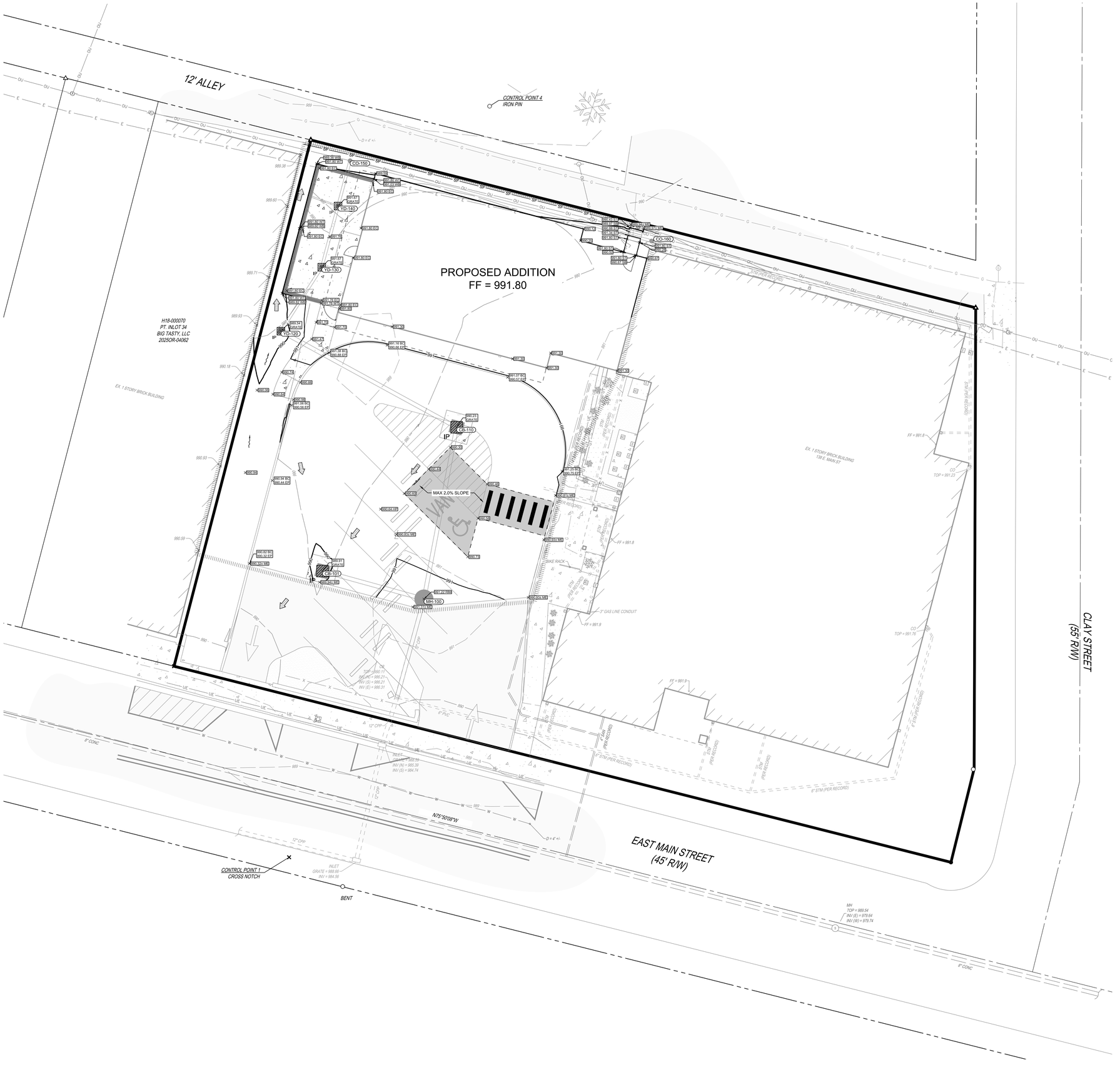
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GRADING LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED SWALE
- 100-YEAR FLOOD ROUTE

SPOT ELEVATION LEGEND

- FINISHED GRADE ELEVATION
- BACK OF CURB ELEVATION
- EDGE OF CONCRETE ELEVATION
- EDGE OF PAVEMENT ELEVATION
- EDGE OF GRAVEL ELEVATION
- BOTTOM OF STAIR ELEVATION
- TOP OF STAIR ELEVATION
- FINISHED GRADE AT WALL BOTTOM
- FINISHED GRADE AT WALL TOP
- MANHOLE / CLEANOUT RIM ELEVATION
- STORM INLET TOP OF CASTING ELEVATION
- CATCH BASIN GRATE ELEVATION

PROPOSED EROSION CONTROL LEGEND

- INLET PROTECTION, DETAIL 3/C100
- SILT FENCE, DETAIL 4/C100
- CONCRETE WASHOUT, DETAIL 1/C160
- CONSTRUCTION ENTRANCE, DETAIL 2/C100
- LIMITS OF DISTURBANCE

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GRADING & EROSION CONTROL PLAN

DATE 09-14-26

COMM NO. 2026032.01

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PROJECT DATA

PROJECT DESCRIPTION
PROPOSED ADDITION AND RENOVATION TO THE EXISTING BRADFORD PUBLIC LIBRARY, INCLUDING SITE WORK RELATED TO THE PARKING LOT AND UTILITIES.

LATITUDE:	N 40.132420°
LONGITUDE:	W 84.429881°
ESTIMATED CONSTRUCTION DATES:	FALL 2026 - SPRING 2027
TOTAL SITE AREA:	0.639 ACRES
TOTAL DISTURBED AREA:	0.229 ACRES
EXISTING IMPERVIOUS AREA:	0.170 ACRES
PROPOSED IMPERVIOUS AREA:	0.177ACRES
TOTAL IMPERVIOUS AREA AFTER CONSTRUCTION:	0.177 ACRES
INCREASE IN IMPERVIOUS AREA:	4%
PRE-CONSTRUCTION RUNOFF COEFFICIENT :	C=0.75
POST-CONSTRUCTION RUNOFF COEFFICIENT:	C=0.76
IMMEDIATE RECEIVING WATER/MS4:	BRADFORD STORM SEWERS
ULTIMATE RECEIVING STREAM:	BALLINGER RUN
EXISTING LAND USE:	BRADFORD PUBLIC LIBRARY
SOILS:	CrA - CROSBY SILT LOAM

CONSTRUCTION SEQUENCE

TO COMPLETE THE EXCAVATION AND CONSTRUCTION OF THE PROPOSED JOB IMPROVEMENTS, COORDINATION OF THE CONTRACTOR'S WORK CREWS WILL BE REQUIRED. THE EXISTING DITCHES WILL PERFORM TEMPORARY SEDIMENT CONTROL AND STORAGE DURING THE PROPOSED CONSTRUCTION. WORK WILL GENERALLY PROCEED FROM DOWNSTREAM TO UPSTREAM IN THESE WORK AREAS. THE GENERAL CONSTRUCTION SEQUENCE IS AS FOLLOWS:

A) INSTALL EROSION CONTROL ITEMS.
B) STRIP TOPSOIL AND ANY UNSUITABLE MATERIAL THROUGH THE INCREMENTAL WORK AREA.
C) INSTALL TEMPORARY DITCH CHECKS IN DOWNSTREAM END OF EXISTING DITCH WITHIN 24 HOURS FOLLOWING THE STRIPPING OPERATION.
D) IF U/G PIPE IS CALLED FOR IN THIS PORTION OF WORK AREA, PIPE CREW WILL INSTALL PIPE AS WELL AS MANHOLES.
E) AS PIPE INSTALLATION PROGRESSES, REPAIR OF THE ROADWAY WILL PROCEED BEHIND IT.
F) ANY DISTURBED OR EXPOSED AREAS SHALL BE STABILIZED PER OEPA TEMPORARY AND PERMANENT STABILIZATION REGULATIONS INCLUDING:

1. SEEDING
2. DITCH MATTING
3. INLET PROTECTION
4. MULCHING
5. WATERING

EMERGENCY ACTION & SPILL PREVENTION PLAN

THE SCOPE OF WORK COVERED BY THIS PLAN INCLUDES EMERGENCY RESPONSE TO SPILLS, CONTAINMENT OF SPILLED LIQUIDS, EMERGENCY NOTIFICATION NUMBERS, AND SOIL EXCAVATION FOR SPILL CLEAN-UP.

IN THE EVENT OF A SPILL EVENT THE EMPLOYEE SHALL ASSESS THE SPILL AND IMMEDIATELY NOTIFY THE SAFETY OFFICER AND SUPERVISOR IN CHARGE, OR OTHER INDIVIDUALS AS LISTED BELOW.

TITLE	NAME	PHONE NUMBER
SITE SUPERINTENDENT		
PROJECT ENGINEER		

IMMEDIATELY AFTER NOTIFICATION, THE EMPLOYEE WILL BE DIRECTED BY THE SAFETY OFFICER, OR RESPONSIBLE PARTY TO START CONTAINMENT PROCEDURES TO PREVENT THE MATERIAL FROM REACHING THE STORM SEWERS, DRAINAGE DITCH, AND OTHER OUTLETS USING THE FOLLOWING ACTIONS OR ANY OTHER MEANS NECESSARY WITHOUT COMPROMISING WORKER SAFETY:

1) CLEAR PERSONNEL FROM THE SPILL AREA AND ROPE OFF AREA.
2) STOP THE SPILL.
3) USE SORBENT MATERIALS, PLUG PUTTY, OR HOLE PUTTY AS NECESSARY TO CONTROL THE SPILL AT THE SOURCE.
4) CONSTRUCT A TEMPORARY CONTAINMENT DIKE OF SORBENT MATERIALS OR DIRT TO CONTAIN SPILL.

SPILL KITS WILL BE LOCATED ON THE PROJECT AS DESIGNATED ON THE SWPPP PLAN.

UPON COMPLETION OF CONTAINMENT OPERATIONS, PROPER CLEAN-UP PROCEDURES WILL BE IMPLEMENTED IN ACCORDANCE WITH REGULATORY PROCEDURES.

IF THE SPILL EXCEEDS 25 GALLONS, THE FOLLOWING ORGANIZATIONS SHALL BE CONTACTED WITHIN 30 MINUTES OF THE INCIDENT:

EMERGENCY CONTACTS:

OHIO EPA EMERGENCY RESPONSE CENTER 800-282-9378 (24-HOUR PHONE NO.)

_____ _____

_____ _____

GENERAL NOTES

THE CONTRACTOR IS HEREBY ADVISED THAT STRICTER POLLUTION CONTROL STANDARDS AND ENFORCEMENT HAVE BEEN IMPOSED BY THE OHIO EPA SINCE MARCH 10, 2003 AND WITH REVISIONS IN APRIL 2018 AND IN APRIL 2023. ALSO, MANY PRIVATE CITIZEN ENVIRONMENTAL GROUPS, WHO HAVE BEEN KNOWN TO FILE CIVIL LEGAL ACTIONS, ARE PRESENT IN THE AREA AND OBSERVE ALL CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS OF THE REQUIREMENTS AND RESPONSIBILITIES OF THE SWPPP AND SHALL DOCUMENT ALL SUCH NOTIFICATIONS AND/OR DISCUSSIONS.

THE CONTRACTOR WILL BE REQUIRED TO PARTICIPATE IN SEDIMENT AND EROSION CONTROL INSPECTIONS ON A WEEKLY BASIS AND SIGN AN APPROVED INSPECTION SHEET THAT SHALL BE KEPT ON FILE AT THE JOB SITE.

UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OEPA "RAINWATER AND LAND DEVELOPMENT" HANDBOOK SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.

THIS PROJECT WILL INVOLVE SEVERAL CONSTRUCTION PHASES AND SEQUENCING THROUGHOUT ITS LIFETIME. IT IS VERY IMPORTANT THAT ALL TEMPORARY SEDIMENT AND EROSION CONTROL (S&EC) FIELD METHODS ALONG WITH THIS PLAN, ARE UPDATED TO REFLECT THE ACTUAL FIELD CONDITIONS, CURRENT WEATHER CONDITIONS AND SITE GRADE CHANGES. THE ENGINEER OR THE OHIO EPA CAN AND WILL MODIFY THIS PLAN AS NECESSARY.

THE CONTRACTOR WILL VOLUNTARILY SELF REPORT ANY POTENTIAL VIOLATIONS OF THE OEPA NPDES PERMIT TO THE ENGINEER AND THE OEPA.

THE CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER CONSTRUCTION.

CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OF ACCORDING TO OHIO EPA REQUIREMENTS.

THE CONTRACTOR WILL BE REQUIRED TO BUILD SEDIMENT BASINS OR SEDIMENT TRAPS OR USE EQUAL METHODS TO DETAIN AND CLEAN WATER TO ACCEPTABLE EPA STANDARDS BEFORE RELEASING THE WATER BACK INTO THE STREAM.

THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS, RESULTING FROM DEWATERING ACTIVITIES. SEDIMENT-LADEN WATER MUST PASS THROUGH A SETTLING POND, FILTER BAG, OR OTHER COMPARABLE PRACTICE, PRIOR TO DISCHARGE.

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

ALL PROCESS WASTEWATER (EQUIPMENT WASHING, LEACHATE FROM ON-SITE WASTE DISPOSAL, ETC.) SHALL BE COLLECTED AND DISPOSED OF AT A PUBLICLY OWNED TREATMENT WORKS.

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND HEALTH REGULATIONS.

OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEER'S DISCRETION.

NO SOIL, ROCK, DEBRIS OR OTHER MATERIAL SHALL BE DUMPED OR PLACED IN ANY AREAS NOT ADEQUATELY PROTECTED BY EROSION CONTROL INSTALLATIONS.

IT IS PREFERRED TO USE PERMANENT EROSION CONTROL ITEMS AS SHOWN IN THE PLANS TO CONTROL CONSTRUCTION POLLUTION WHEN POSSIBLE. OTHERWISE, THE TEMPORARY POLLUTION PREVENTION ITEMS ARE TO BE USED.

MOST TEMPORARY S&EC METHODS, INCLUDING BUT NOT LIMITED TO, SILT FENCE AND DITCH CHECKS MAY ALL HAVE TO BE PERIODICALLY REMOVED AND REPLACED, OR MOVED FROM THE EXISTING ROAD DITCH OR STRIPPED AREAS AS WORK PROGRESSES. ANY CHANGES SHALL BE NOTED IN THE PLAN BY RED LINE AND DATED ON A CORRECTIVE ACTION LOG.

ALL TEMPORARY SEDIMENT CONTROLS AND STORM WATER QUALITY METHODS WILL BE BUILT/INSTALLED AS THE PROJECT PROGRESSES TO ELIMINATE UNNECESSARY DISTURBANCE AND REDUNDANCY. ALL TEMPORARY CONTROLS SHALL BE IN PLACE AND FUNCTIONING PROPERLY WHEN THREATENING WEATHER IS IMMINENT.

"TEMPORARY STABILIZATION" MEANS THE ESTABLISHMENT OF TEMPORARY VEGETATION, MULCHING, GEOTEXTILES, SOD, PRESERVATION OF EXISTING VEGETATION AND OTHER TECHNIQUES CAPABLE OF QUICKLY ESTABLISHING COVER OVER DISTURBED AREAS TO PROVIDE EROSION CONTROL BETWEEN CONSTRUCTION OPERATIONS.

"PERMANENT STABILIZATION" MEANS THE ESTABLISHMENT OF PERMANENT VEGETATION, DECORATIVE LANDSCAPE MULCHING, MATTING, SOD, RIP RAP AND LANDSCAPING TECHNIQUES TO PROVIDE PERMANENT EROSION CONTROL ON AREAS WHERE CONSTRUCTION OPERATIONS ARE COMPLETE OR WHERE NO FURTHER DISTURBANCE IS EXPECTED FOR AT LEAST A YEAR.

OFF-SITE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.

STABILIZATION PRACTICES

PERMANENT SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 1)

TABLE 1: PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

TEMPORARY SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 2)

TABLE 2: TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITH 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

ALL TEMPORARY EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE REMOVED WHEN 70% VEGETATION HAS BEEN REACHED.

SEEDING & MULCHING

MULCH AND/OR OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 14 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.

MULCH SHALL CONSIST OF UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90 LB./1000 SQ. FT. (TWO TO THREE BALES). THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1000-SQ.-FT. SECTIONS AND PLACE TWO 45-LB. BALES OF STRAW IN EACH SECTION.

MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH:

1) MECHANICAL-USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 IN.
2) MULCH NETTINGS-USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING SUGGESTIONS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.
3) SYNTHETIC BINDERS-FOR STRAW MULCH, SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF SYNTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT WITH WATERS OF THE STATE.
4) WOOD CELLULOSE FIBER - WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB./ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL. OF WOOD CELLULOSE FIBER.

TEMPORARY SEEDING & MULCHING FOR EROSION CONTROL

SEED TYPE	PER 1,000 SQ FT	PER ACRE
PERENNIAL RYEGRASS PERENNIAL RYEGRASS ANNUAL RYEGRASS	1 POUND 1 POUND 1 POUND	40 POUNDS 40 POUNDS 40 POUNDS
SMALL GRAIN STRAW	90 POUNDS	2 TONS
FERTILIZER	6 POUNDS OF 10-10-10 OR 12-12-12	250 POUNDS OF 10-10-10 OR 12-12-12

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED

STOCKPILE

SILT FENCING SHALL BE INSTALLED AROUND TEMPORARY SPOIL STOCKPILES. THESE STOCKPILES SHALL BE STRAW MULCHED AND/OR TEMPORARILY SEEDED WITHIN 7 WORKING DAYS IF LEFT DORMANT FOR 14 DAYS OR LONGER.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND SILT FENCE WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED LONGER THAN 14 DAYS AND/OR WITHIN 7 DAYS OF ANY GRUBBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 2 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS OF THE LAST DISTURBANCE IF THE AREA IS MORE THAN 50 FEET AWAY FROM A STREAM. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

STABILIZATION TYPE	J	F	M	A	M	J	J	A	S	O	N	D
PERMANENT SEEDING			*	●	●	*	*	*	●	●		
DORMANT SEEDING	●	●	●							●	●	●
TEMPORARY SEEDING			●	●	●	*	*	*	●	●		
SODDING			**	**	**	**	**	**	**			
MULCHING	●	●	●	●	●	●	●	●	●	●	●	●

* IRRIGATION NEEDED
** IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOD IS APPLIED

INSPECTIONS

ALL BMPS ON THIS SITE SHALL BE INSPECTED BY "QUALIFIED INSPECTION PERSONNEL" ASSIGNED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND BY THE END OF THE NEXT CALENDAR DAY, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS SCHEDULED, AFTER A RAIN EVENT OF 0.5 INCHES PER 24 HOUR PERIOD. A RECORD OF THESE INSPECTIONS SHALL BE MAINTAINED IN THE CONSTRUCTION OFFICE WITH THE SWPPP FOR PUBLIC VIEWING. ANY VIOLATIONS WILL BE REPORTED THROUGH THE PROJECT PERSONNEL. A RAIN GAUGE WILL BE LOCATED WITHIN THE PROJECT LIMITS.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:

1. THE INSPECTION DATE;
2. NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
3. WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED;
4. WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
5. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
6. LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;
7. LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
8. LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
9. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

MAINTENANCE

THE CONTRACTOR SHALL MAINTAIN, REPAIR, OR REPLACE ALL EROSION CONTROL INSTALLATIONS AS NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL REPAIRS TO BMPS SHALL BE MADE WITHIN 3 DAYS (OR SOONER IF POSSIBLE) OF NOTIFICATION OF DEFICIENCIES. IF THE CORRECTIONS ARE NOT MADE WITHIN THE 3 DAY PERIOD, LIQUIDATED DAMAGES MAY BE ASSESSED AS PER THE ODOT CMS SECTION 108.07.

ONGOING INSPECTION OF INSTALLATIONS WILL BE PERFORMED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE.

ANY TRAPPED SEDIMENT OR DEBRIS REMOVED DURING CLEANING OF OR REMOVAL OF BMP INSTALLATIONS SHALL BE PLACED IN AREAS NOT SUBJECT TO EROSION AND PERMANENTLY STABILIZED.

DUST CONTROL

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ONSITE:

1. VEGETATIVE COVER AND/MULCH - APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
2. WATERING - SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
3. SPRAY-ON ADHESIVES - APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS.

ADHESIVE	WATER DILUTION (ADHESIVE: WATER)	NOZZLE TYPE	APPLICATION RATE (GAL/AC)
LATEX EMULSION	12.5:1	FINE	235
RESIN IN WATER ACRYLIC EMULSION (NO TRAFFIC)	4:1	FINE	300
ACRYLIC EMULSION (NO TRAFFIC)	7:1	COARSE	450
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350

SPILL PREVENTION

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING:

1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
2. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
6. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

HAZARDOUS PRODUCTS:

1. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
2. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
3. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

1. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE MUST BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO THE OHIO EPA'S HOTLINE.
5. SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS MUST BE TREATED/DISPOSED AT AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDF).
6. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
7. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

PRODUCT SPECIFIC PRACTICES

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FUEL STORAGE TANKS SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEM INLETS. FUEL TANKS SHALL BE STORED IN A DIKED AREA CAPABLE OF HOLDING 150% OF THE TANK CAPACITY.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE WASH WATER/WASH OUTS

CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED ON THE LOT AWAY FROM ANY WATER CONVEYANCES.

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EROSION CONTROL NOTES

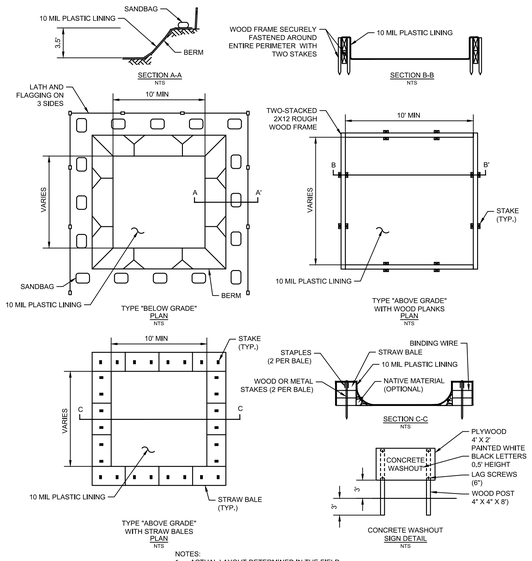
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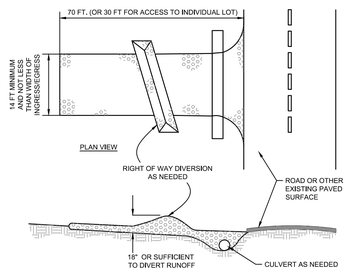
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NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

1 C161 CONCRETE WASHOUT DETAIL
N.T.S.



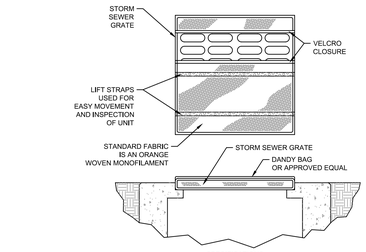
NOTES

1. STONE SIZE - ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
3. THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE ARE PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

MINIMUM TENSILE STRENGTH	200 LBS
MINIMUM PUNCTURE STRENGTH	80 LBS
MINIMUM TEAR STRENGTH	50 LBS
MINIMUM BURST STRENGTH	320 PSI
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS< 0.6MM
PERMITTIVITY	$1X10^{-7}$ CM/SEC

6. TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
7. CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEED ED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
8. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
9. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES. TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVE IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
10. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
11. REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

2 C-161 CONSTRUCTION ENTRANCE DETAIL
N.T.S.



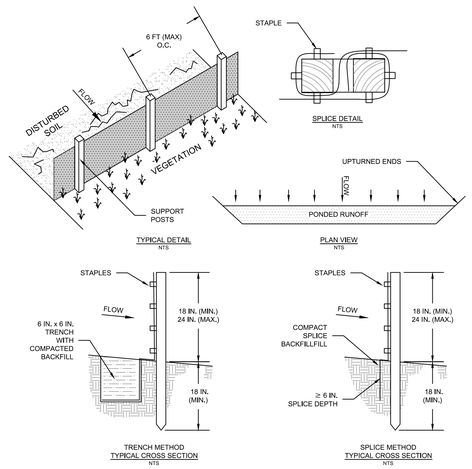
SPECIFICATIONS

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1,62 (365) X 0,89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0,40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0,51 (115) X 0,33 (75)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0,425 (40)
FLOW RATE	ASTM D 4491	l/MIN/M²(GAL/MIN/FT²)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC-1	2,1

INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END, IF USING OPTIONAL OIL ABSORBENTS: PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT, ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE, HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE). PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS: REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

3 C161 DANDY BAG DETAIL
N.T.S.



SCOPE

FURNISH ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONSTRUCTING SILT FENCE IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND THESE SPECIFICATIONS. SILT FENCE SHALL BE INSTALLED AND OPERATIONAL BEFORE UPSLOPE LAND DISTURBANCE BEGINS.

MATERIALS

1. SUPPORT POSTS SHALL BE 2-INCH BY 2-INCH WOOD POSTS OF SOUND QUALITY OR EQUIVALENT.
2. GEOTEXTILE FABRIC SHALL MEET THE MINIMUM CRITERIA LISTED IN TABLE BELOW:

FABRIC PROPERTIES	VALUES	TEST METHOD
PERMITTIVITY	≥ 0.05 SEC-1	ASTM D 4491
APPARENT OPENING SIZE	<0.6 MM (30 SIEVE)	ASTM D 4751
MINIMUM GRAB TENSILE STRENGTH	90 LB.	ASTM D 4632
MINIMUM TEAR STRENGTH	60 LB.	ASTM D 4533
MINIMUM PUNCTURE STRENGTH	325 LB.	ASTM D 6241
UV STABILITY	70% AFTER 500 HRS	ASTM D 4355

INSTALLATION

1. THE ABOVE-GROUND HEIGHT OF THE SILT FENCE SHOULD BE 18 INCHES, BUT NO MORE THAN 24 INCHES. A HIGHER SILT FENCE MAY NOT WITHSTAND THE WEIGHT OF WATER AND SEDIMENT BEHIND IT AND IS NOT RECOMMENDED.
2. SUPPORT POSTS SHALL BE PLACED ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AT A MAXIMUM SPACING OF 6 FEET (10 FEET FOR WIRE-SUPPORTED SILT FENCE) AND DRIVEN A MINIMUM OF 18 INCHES INTO THE SOIL OR ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE SILT FENCE WHERE BEDROCK OR BURIED UTILITIES PREVENT AN 18-INCH GROUND PENETRATION.
3. FASTEN THE GEOTEXTILE TO THE UPSLOPE SIDE OF POSTS WITH A MINIMUM OF FOUR STAPLES PER POST, SUCH THAT IT REMAINS SECURE AND TAUT BUT DOES NOT RIP.
4. THE BOTTOM 8 TO 12 INCHES OF GEOTEXTILE SHALL BE BURIED IN A "J" CONFIGURATION IN A TRENCH A MINIMUM OF 6 INCHES WIDE AND 6 INCHES DEEP OR SLICED 8 TO 12 INCHES DEEP. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. COMPACT SOIL ON BOTH SIDES OF THE FABRIC, OFFSETTING THE TRENCH 6 INCHES UPSTREAM FROM THE SILT FENCE IS RECOMMENDED TO IMPROVE THE STABILITY OF THE SUPPORT STAKES.
5. INSTALL SILT FENCE IN CONTINUOUS SEGMENTS WITH UPTURNED ENDS. WHERE NECESSARY, SPLICES SHALL BE MADE BY OVERLAPPING GEOTEXTILE MATERIALS AROUND SUPPORT POSTS TO PROVIDE A SECURE AND SEAMLESS JOINT.

MAINTENANCE AND REMOVAL

1. INSPECT SILT FENCE AFTER EACH 0.50-INCH OR GREATER RAIN EVENT AND AT LEAST DAILY DURING MULTI-DAY RAIN EVENTS. INSPECTIONS DURING RAIN EVENTS WILL AID IN EVALUATING PERFORMANCE. IF BYPASS OCCURS DURING 0.50 INCHES OF RAIN OR LESS, CHANGE THE LAYOUT OR REPLACE THE SILT FENCE WITH A SEDIMENT TRAP AS NECESSARY.
2. SILT FENCE THAT DOES NOT DEWATER IN 48 HOURS OR LESS IS CLOGGED AND NEEDS TO BE REPLACED.
3. REMOVE SEDIMENT WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE. IF SEDIMENT ACCUMULATES BEYOND THIS LEVEL, THE FABRIC WILL LIKELY BE CLOGGED AND NEED TO BE REPLACED.
4. REPAIR DAMAGED SILT FENCE UPON DISCOVERY.

4 C-161 SILT FENCE DETAIL
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"J" REFERENCE LINE

DEMOLITION LEGEND

- NO WORK THIS AREA
- REMOVE EXISTING CONSTRUCTION
- EXISTING CONSTRUCTION TO REMAIN
- REMOVE EXISTING DOOR AND/OR FRAME AS NOTED
- EXISTING DOOR AND FRAME TO REMAIN

KEY NOTES - DEMOLITION PLANS

D1	REMOVE EXISTING WALL IN ITS ENTIRETY.
D2	REMOVE EXISTING STOREFRONT AND FRAME
D4	REMOVE EXISTING DOOR AND FRAME
D5	REMOVE EXISTING TABLE AND CHAIRS
D6	SALVAGE SHELVING, TACK BOARD, AND PHOTOS TO OWNER
D8	DEMO EXISTING LIGHT FIXTURES
D9	DEMO EXISTING SOFFIT TO MAKE ROOM FOR NEW PARTITION CONSTRUCTION
D10	DEMO EXISTING MASONRY CAVITY WALL TO ACCOMODATE NEW CONSTRUCTION DOOR AND DOOR CLEARANCE
D11	DEMO EXISTING EIFS, 1 1/2" INSULATION, 1/2" PLYWOOD SHEATHING, AND 2X4 WOOD FRAMING SUPPORTING EIFS.
D13	PRESERVE (3) 2X12 HEADERS AND SHIFT TO NEW OPENING EXTENTS
D14	REMOVE EXISTING SHELVING

GENERAL NOTES - DEMOLITION PLAN

A. REPAIR EXISTING SURFACES WHERE DEMOLITION HAS OCCURED FOR NEW CONSTRUCTION. GENERAL TRADES CONTRACTOR SHALL PATCH/REPAIR WALL, FLOOR AND CEILING SURFACES AFFECTED BY DEMOLITION WORK. PATCHING/CUTTING OF EXISTING SURFACES FOR NEW WORK SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR PERFORMING THE WORK. ALL REPAIRS SHALL MATCH EXISTING ADJACENT SURFACES IN MATERIAL, FINISH, TEXTURE, ETC. THIS WORK IS TO BE INCLUDED IN BASE BID AND IS NOT TO BE INCLUDED IN THE QUANTITY ALLOWANCE.

B. UNLESS DIRECTED BY OWNER, ALL MISCELLANEOUS ITEMS ATTACHED TO FLOORS, WALLS, OR CEILINGS ARE TO BE REMOVED THAT INTERFERE WITH INSTALLATION OR ALIGNMENT OF NEW WORK. THIS INCLUDES BUT NOT LIMITED TO: SHELVES, BRACKETS, POSTERS, PAINTINGS, ART OR OTHER DISPLAYS, PROJECTION SCREENS, AND VISUAL DISPLAY BOARDS.

C. OWNER WILL REMOVE ALL LOOSE FURNITURE/APPLIANCES IN ROOMS PRIOR TO THE COMMENCEMENT OF DEMOLITION.

D. AT ALL EXISTING SURFACES SCHEDULED TO RECEIVE A NEW PAINT FINISH REMOVE ANY EXISTING FASTENERS, BRACKETS, ETC. IN WALLS THAT ARE NOT BEING USED AND PATCH TO MATCH EXISTING ADJACENT SURFACES IN MATERIALS, FINISH, TEXTURE, ETC. PATCH CHIPPED PAINT SURFACES ON PLASTER WALLS TO MATCH ADJACENT SURFACE TEXTURE. SAND CHIPPED EDGES ON WOOD AND METAL SURFACES SMOOTH.

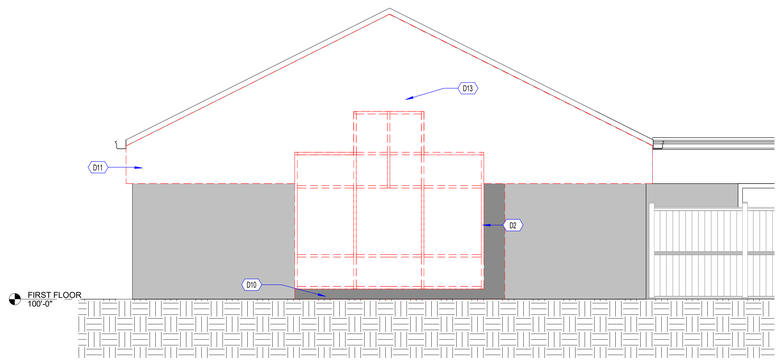
E. NOT ALL ROOM MATERIAL/FINISH DEMOLITION INDICATED. WHERE NEW MATERIAL/FINISH IS INDICATED IN ROOM FINISH SCHEDULE, REMOVE EXISTING MATERIALS/FINISH INCLUDING FLOOR AND BASE, ADHESIVES/MASTICS, FLOOR SEALERS AND CURING COMPOUNDS, AND FLOOR PAINT WHETHER OR NOT SHOWN TO BE REMOVED ON DEMOLITION FLOOR PLANS.

F. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS TO BE DEMOLISHED.

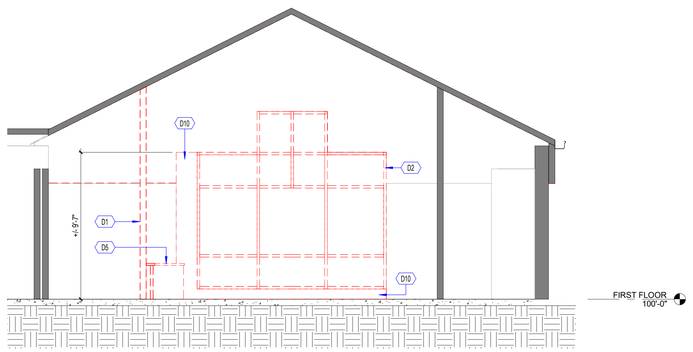
G. REMOVE EXISTING WOOD BASE WHERE NEW CASEWORK EXTENDS TO FLOOR.

H. WHERE FLOOR SLABS TO REMAIN ARE DISCONTINUOUS AT WALLS AND PARTITIONS NOTED TO BE REMOVED, REMOVE WALL/PARTITION TO BELOW FLOOR SLAB AND PATCH SLAB THROUGH OPENING.

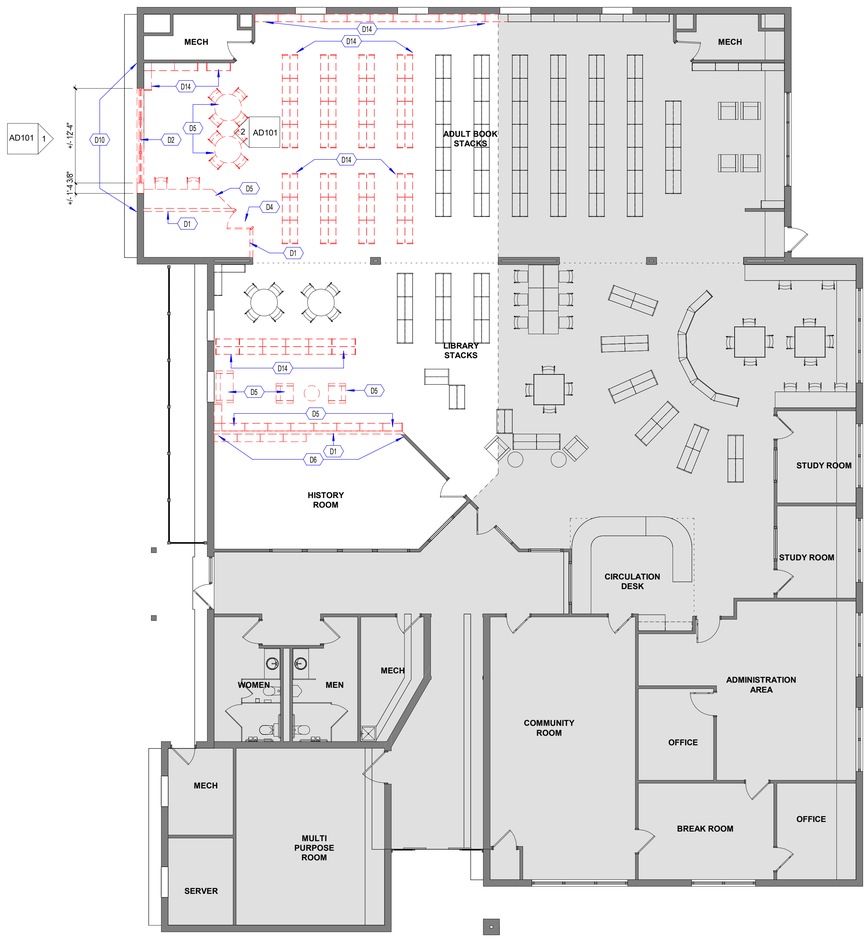
J. WHERE NEW OPENINGS OCCUR WHERE EXISTING WALLS HAVE BEEN REMOVED, FEATHER CEMENT-BASED UNDERLAYMENT AT A DISTANCE OF 8 FEET FROM EACH JAMB TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING FLOOR FINISHES ON EACH SIDE OF THE OPENING. FLOOR SURFACE SHALL BE FLAT WITHIN 3/16" IN 10 FEET IN ACCORDANCE WITH ASTM F710.



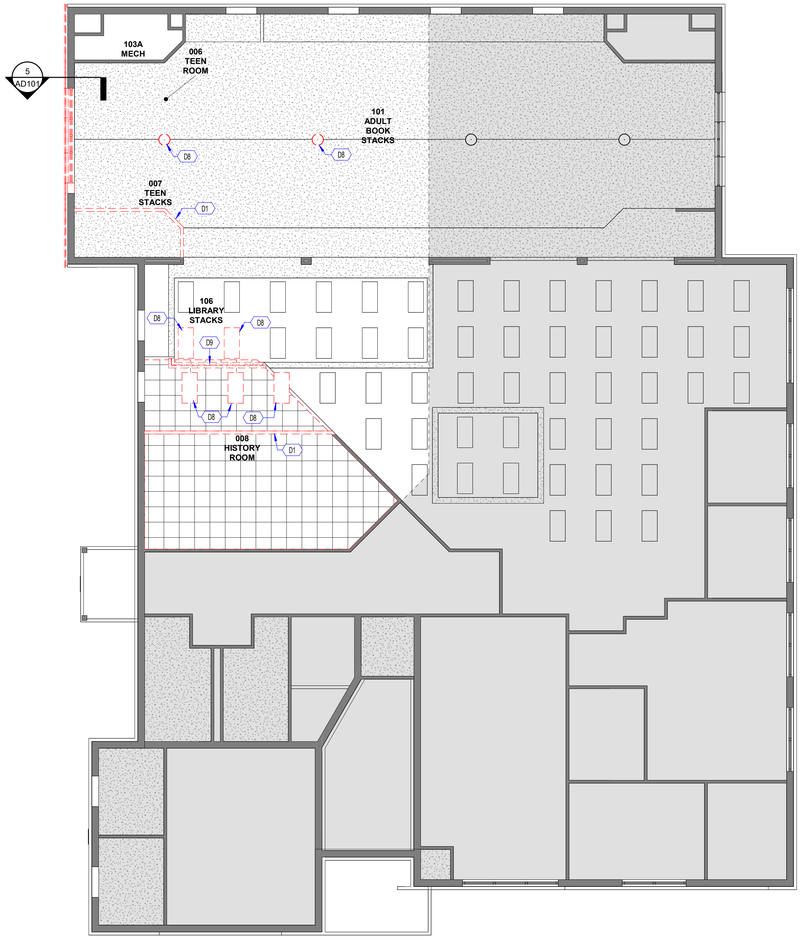
1 AD101 DEMO WEST ELEVATION
1/4" = 1'-0"



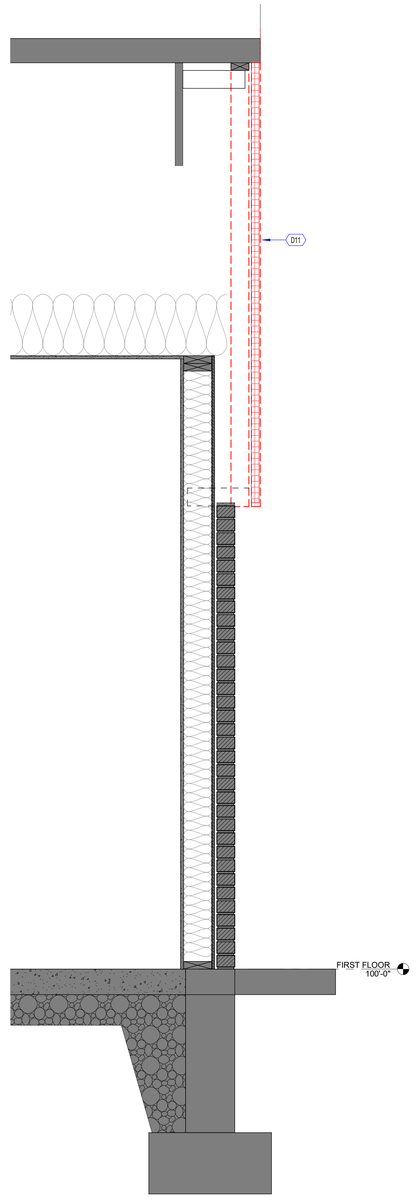
2 AD101 DEMO INTERIOR ELEVATION
1/4" = 1'-0"



N 3 AD101 DEMO PLAN
1/8" = 1'-0"



N 4 AD101 DEMO FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



5 AD101 DEMO SECTION
1" = 1'-0"

0'-1" REFERENCE LINE

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FIRST FLOOR & REFLECTED CEILING DEMO PLANS

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AD101

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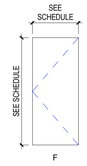
DOOR AND FRAME SCHEDULE

#	DOOR # OF LEAFS	DOOR WIDTH	DOOR HEIGHT	DOOR THK	DOOR TYPE	DOOR MATL	DOOR FINISH	DOOR GLASS	FRAME DEPTH	FRAME TYPE	FRAME E-FRAME	FRAME MATL	FRAME FINISH	FRAME HEAD	FRAME JAMB	FRAME SILL	RATING (MINUTES)	ACCESS CONTROL	HDWR SET	NOTES	DOOR #
001	1	3'-0"	7'-0"	1 3/4"	F	HM	PT-3	-	7 5/8"	1	-	HM	PT-3	H5	J5	S1	90	-	01		001
003	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	5 3/4"	1	-	HM	PT-3	H1	J1	S1	-	-	02		003
003A	1	3'-0"	7'-0"	1 3/4"	F	HM	PT-3	-	5 3/4"	2	-	HM	PT-3	H2	J2	2/A531	-	-	03		003A
004	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	5 3/4"	1	-	HM	PT-3	H1	J1	S1	-	-	04		004
005	1	3'-0"	7'-0"	2 1/4"	FG	AL	MTL-1	IG-1	4 1/2"	S2	-	AL	MTL-1	H3	J3	4/A521	-	-	05		005
006	2	3'-0"	7'-0"	1 3/4"	FG	AL	MTL-2	G-1	4 1/2"	S6	-	AL	MTL-1	H4	J4	S6/A012	-	-	06		006
007 GATE	1	3'-0"	3'-6"	1 1/2"	-	AL	MTL-2	-		-	-	AL	MTL-1	-	-	-	-	-	07		007 GATE

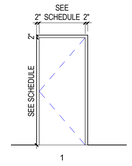
OPENING SCHEDULE ABBREVIATIONS

AL	ALUMINUM
HM	HOLLOW METAL
MTL	FACTORY-FINISHED METAL
PF	PREFINISHED
PT	PAINT
SS	STAINLESS STEEL
STL	STEEL
WD	WOOD

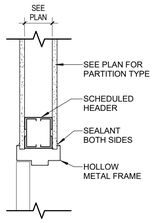
MTL-1: FINISH TO MATCH EXISTING STOREFRONT FINISH
MTL-2: CLASSIC BRONZE FINISH



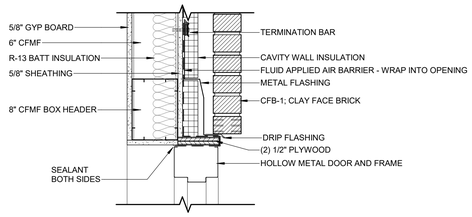
DOOR TYPES
NTS



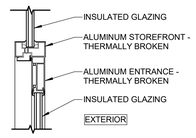
FRAME TYPES
NTS



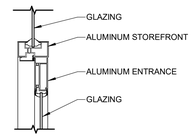
H1 A011 HEAD DETAIL
1 1/2" = 1'-0"



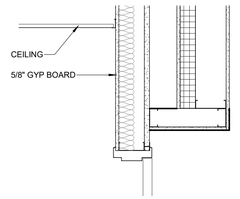
H2 A011 HEAD DETAIL
1 1/2" = 1'-0"



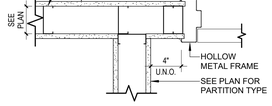
H3 A011 HEAD DETAIL
1 1/2" = 1'-0"



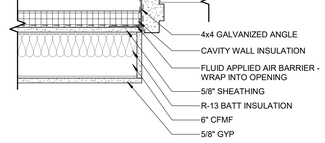
H4 A011 HEAD DETAIL
1 1/2" = 1'-0"



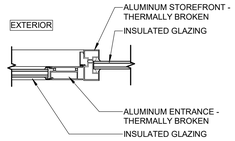
H5 A011 HEAD DETAIL
1" = 1'-0"



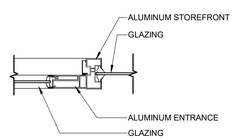
J1 A011 JAMB DETAIL
1 1/2" = 1'-0"



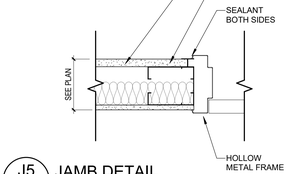
J2 A011 JAMB DETAIL
1 1/2" = 1'-0"



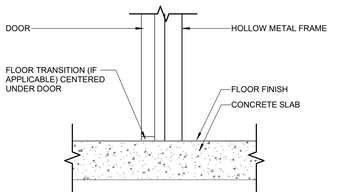
J3 A011 JAMB DETAIL
1 1/2" = 1'-0"



J4 A011 JAMB DETAIL
1 1/2" = 1'-0"



J5 A011 JAMB DETAIL
1 1/2" = 1'-0"



S1 A011 SILL DETAIL
1 1/2" = 1'-0"

0'-1" REFERENCE LINE

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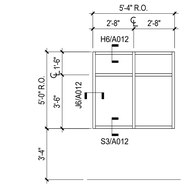
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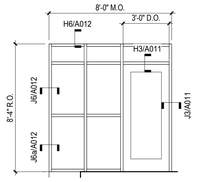
A011

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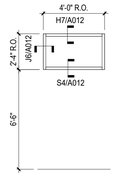
S1
FRAMING MEMBERS:
2" x 4 1/2"
GLAZING TYPE UNO:
IG-1

1 A012 S1 1/4" = 1'-0"



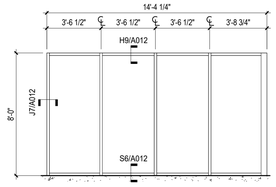
S2
FRAMING MEMBERS:
2" x 4 1/2"
GLAZING TYPE UNO:
IG-1

2 A012 S2 1/4" = 1'-0"



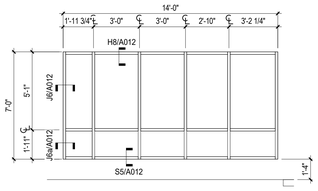
S3
FRAMING MEMBERS:
2" x 4 1/2"
GLAZING TYPE UNO:
IG-1

3 A012 S3 1/4" = 1'-0"



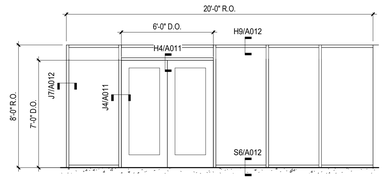
S4
FRAMING MEMBERS:
2" x 4 1/2"
GLAZING TYPE UNO:
IG-1

4 A012 S4 1/4" = 1'-0"



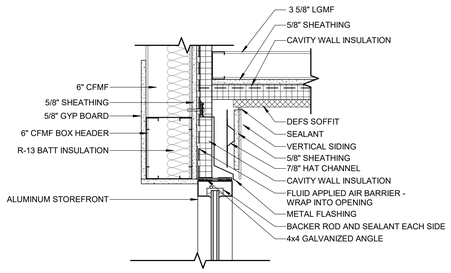
S5
FRAMING MEMBERS:
2" x 4 1/2"
GLAZING TYPE UNO:
IG-1

5 A012 S5 1/4" = 1'-0"

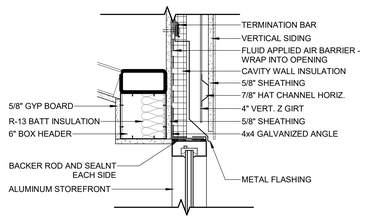


S6
FRAMING MEMBERS:
2" x 4 1/2"
GLAZING TYPE UNO:
IG-1

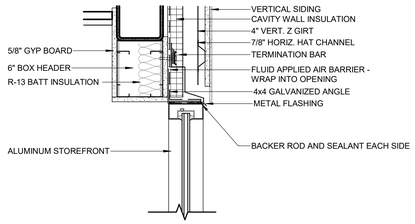
6 A012 S6 1/4" = 1'-0"



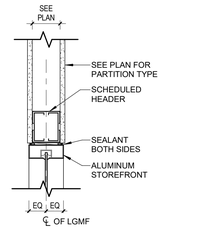
H6
HEAD DETAIL
A012 1 1/2" = 1'-0"



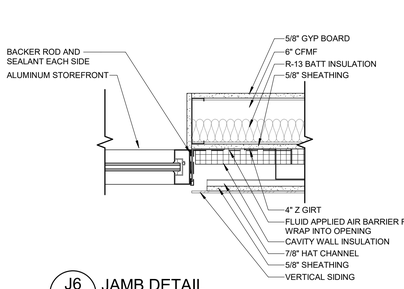
H7
HEAD DETAIL
A012 1 1/2" = 1'-0"



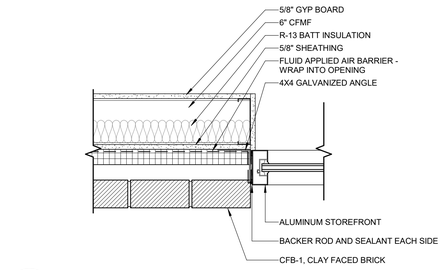
H8
HEAD DETAIL
A012 1 1/2" = 1'-0"



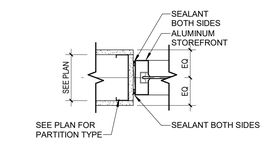
H9
HEAD DETAIL
A012 1 1/2" = 1'-0"



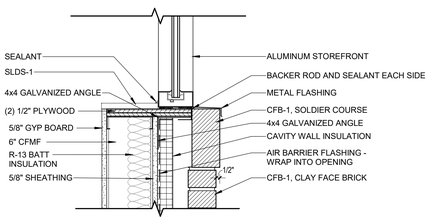
J6
JAMB DETAIL
A012 1 1/2" = 1'-0"



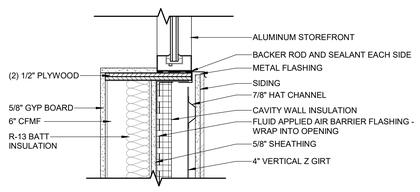
J6a
JAMB DETAIL
A012 1 1/2" = 1'-0"



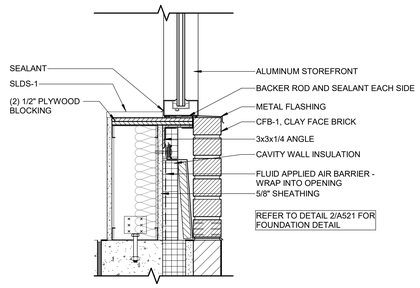
J7
JAMB DETAIL
A012 1 1/2" = 1'-0"



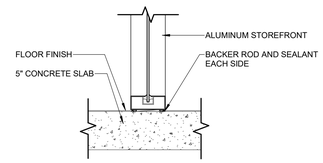
S3
SILL DETAIL
A012 1 1/2" = 1'-0"



S4
SILL DETAIL
A012 1 1/2" = 1'-0"



S5
SILL DETAIL
A012 1 1/2" = 1'-0"



S6
SILL DETAIL
A012 1 1/2" = 1'-0"

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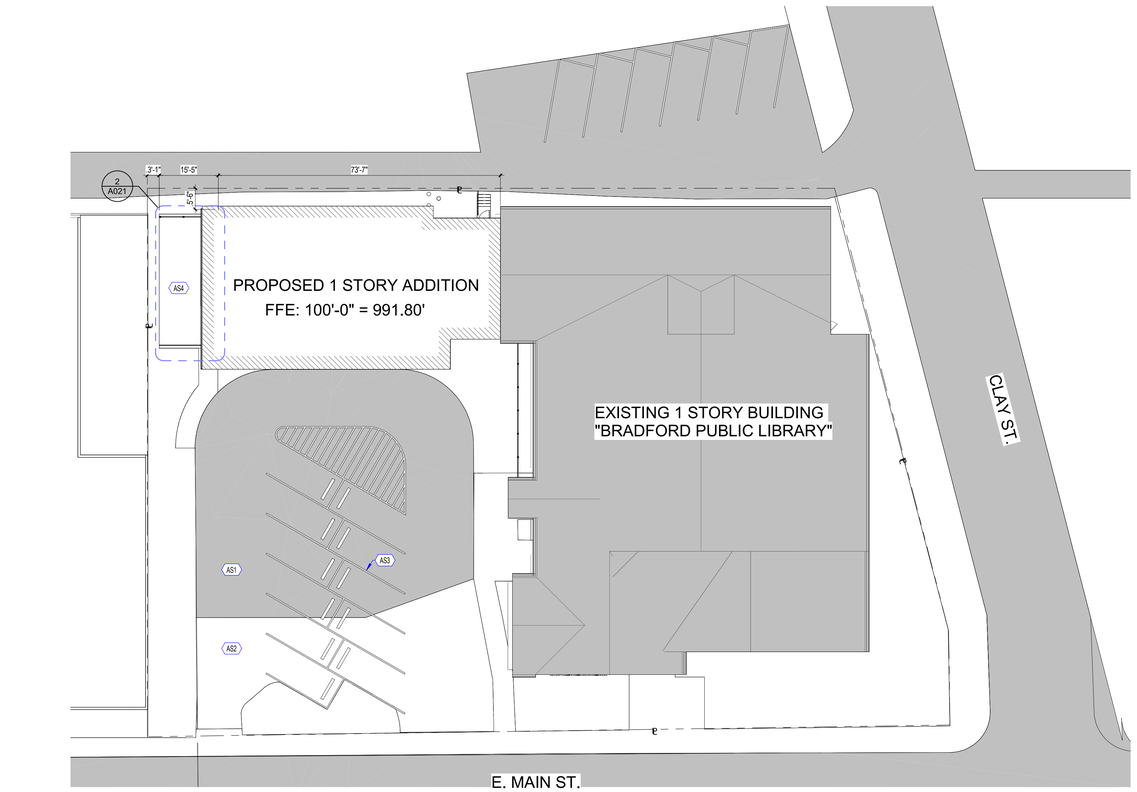
WINDOW & STORFRONT TYPES & DETAILS

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A012

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0'-1" REFERENCE LINE



N

1 A021 ARCHITECTURAL SITE PLAN
1/16" = 1'-0"

ARCHITECTURAL SITE PLAN LEGEND

- NEW CONCRETE
- NEW ASPHALT PAVEMENT
- GRASS
- EXISTING SIDEWALK/ASPHALT

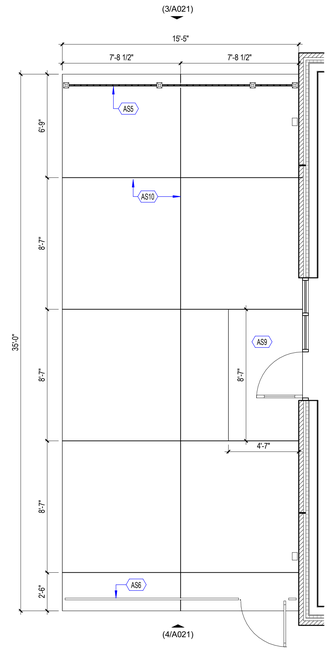
KEY NOTES - ARCHITECTURAL SITE PLAN

AS1	NEW ASPHALT PAVEMENT. SEE CIVIL DWGS.
AS2	EXISTING ASPHALT PAVEMENT TO REMAIN
AS3	NEW PARKING STRIPING. SEE CIVIL DWGS.
AS4	NEW CONCRETE PATIO
AS5	72" PRIVACY FENCE
AS6	42" FENCE WITH GATE
AS9	FROST SLAB
AS10	1/2" CONTROL JOINT

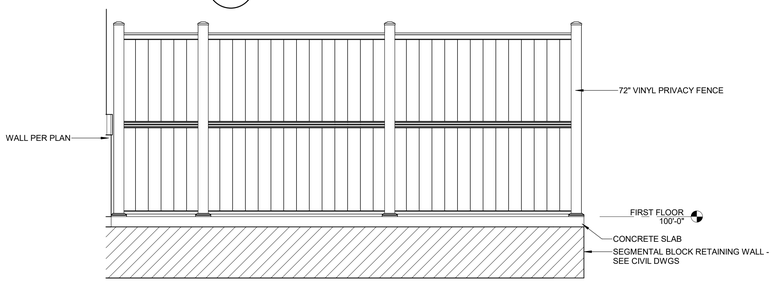
GENERAL NOTES - ARCHITECTURAL SITE PLAN

A. 72" VINYL PRIVACY FENCE: BASIS OF DESIGN ULTRA ALUMINUM VINYL PRIVACY FENCING, SIXE 6'T X 6'W. FINISH TEXTURED WHITE. INSTALL PER MANUFACTURERS INSTRUCTIONS AND SPECIFICATIONS.

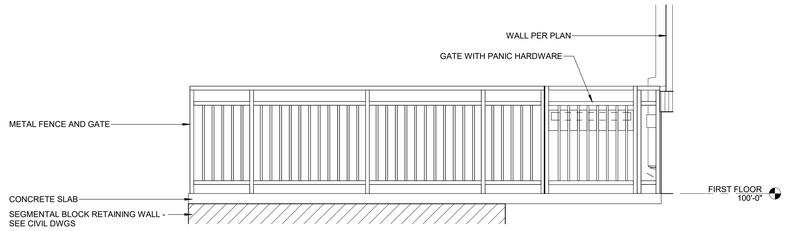
B. METAL FENCE AND GATE: BASIS OF DESIGN AMERISTAR AEGIS II. STYLE OPTION MAJESTIC 3 RAIL. FINISH MTL-2. INSTALL PER MANUFACTURERS INSTRUCTIONS AND SPECIFICATIONS.



2 A021 ENLARGED PATIO PLAN
1/4" = 1'-0"



3 A021 PRIVACY FENCE ELEVATION
1/2" = 1'-0"



4 A021 SMALL FENCE ELEVATION
1/2" = 1'-0"

0'-1" REFERENCE LINE

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3	10-30-26	BID/PERMIT

ARCHITECTURAL SITE PLAN & DETAILS

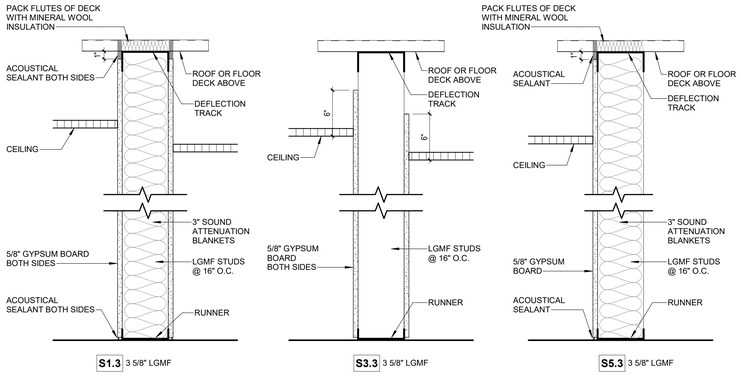
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A021

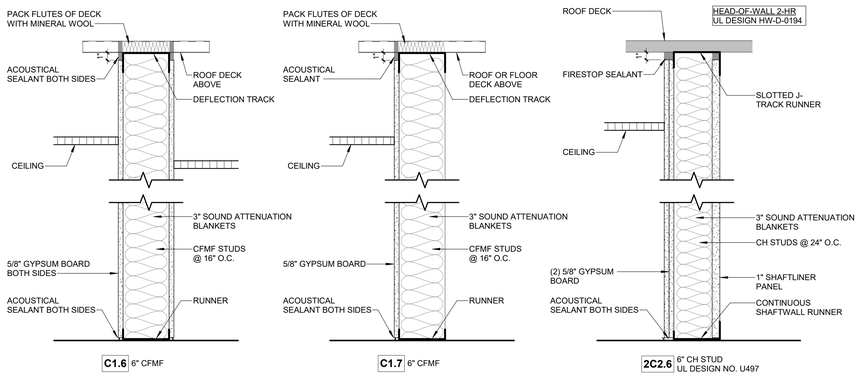
10/30/2026 2:53:14 PM C:\Users\rocallaghan\Documents_LFile\27\2026032.01 Bradford PL - Childrens Room Add and Reno_rocallaghan9DDVL.rvt

GENERAL NOTES - PARTITIONS

A. REFER TO BUILDING AND WALL SECTIONS FOR EXTERIOR WALL TYPES.
B. REFER TO STRUCTURAL DRAWINGS FOR TYPE AND LOCATION OF REQUIRED REINFORCING AT MASONRY WALLS.



1 A041 — LGMF PARTITION TYPES
1 1/2" = 1'-0"



2 A041 — CFMF PARTITION TYPES
1 1/2" = 1'-0"

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ISSUANCES

1	08-28-26	DESIGN DEVELOPMENT
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STANDARD PARTITION TYPES

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A041

0'-1" REFERENCE LINE

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OVERALL FLOOR PLAN LEGEND

NO WORK IN THIS AREA



N

1 / A051 FIRST FLOOR OVERALL FLOOR PLAN

1/8" = 1'-0"

0'-1" REFERENCE LINE

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OVERALL PLAN

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A051

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FLOOR PLAN LEGEND

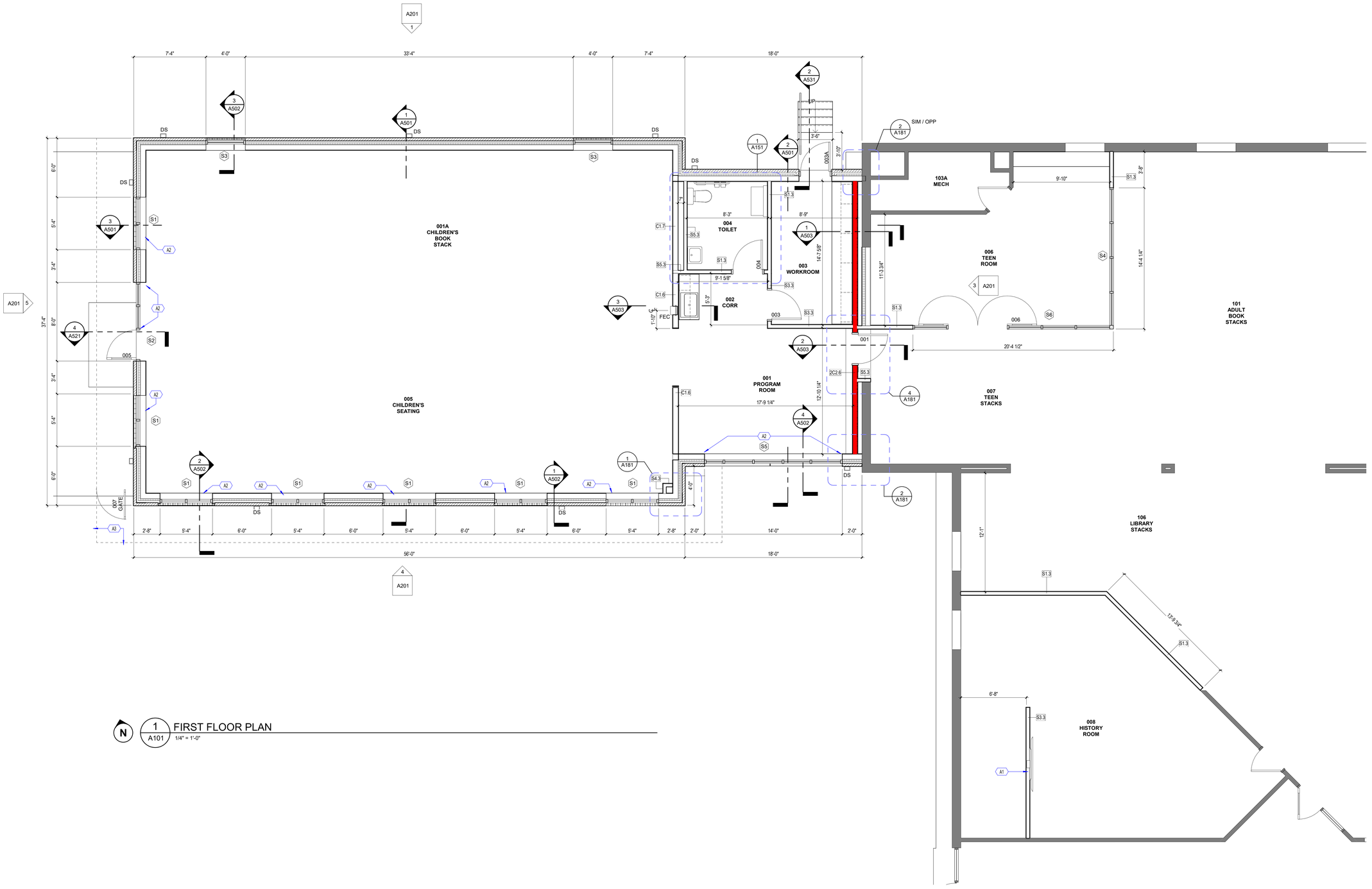
- NO WORK THIS AREA
- NEW WALL/PARTITION
- EXISTING CONSTRUCTION TO REMAIN
- NEW DOOR AS SCHEDULED
- EXISTING DOOR AND FRAME TO REMAIN

GENERAL NOTES - FLOOR PLAN

A. SEE A001 FOR SYMBOLS LEGEND.
B. SEE INTERIOR FLOOR PLANS (A600 SERIES) FOR WALL-MOUNTED CASEWORK, EQUIPMENT, AND FURNISHINGS REQUIRING BLOCKING IN PARTITIONS.
C. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD, OR FACE OF EXISTING FINISH UNLESS NOTED OTHERWISE.
D. ALL PARTITIONS TYPE M1 UNLESS NOTED OTHERWISE.

KEY NOTES - FLOOR PLANS

A1 ADD BLOCKING IN WALL TO SUPPORT TV MOUNT
A2 MANUAL WINDOW SHADES
A3 ROOF LINE ABOVE



N

1 A101 FIRST FLOOR PLAN
1/4" = 1'-0"

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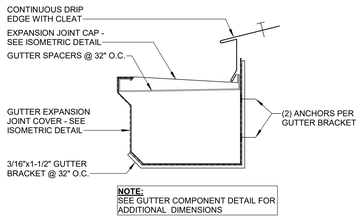
FIRST FLOOR PLAN

COMM NO. 2026032.01

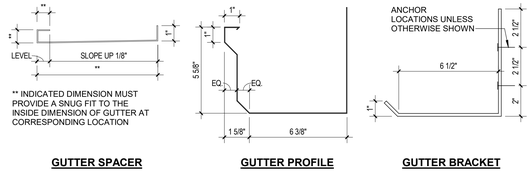
A101

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0'-1" REFERENCE LINE



2 A141 GUTTER DETAIL
3" = 1'-0"



GUTTER SPACER | GUTTER PROFILE | GUTTER BRACKET

3 A141 GUTTER COMPONENT DIMENSIONS
3" = 1'-0"

ROOF PLAN LEGEND

- ROOF SLOPE DOWN (PITCH)
- DS — DOWNSPOUT
- EJ — GUTTER EXPANSION JOINT
- MASONRY WALL LINE BELOW
- STANDING SEAM METAL ROOF
- EXISTING STANDING SEAM METAL ROOF

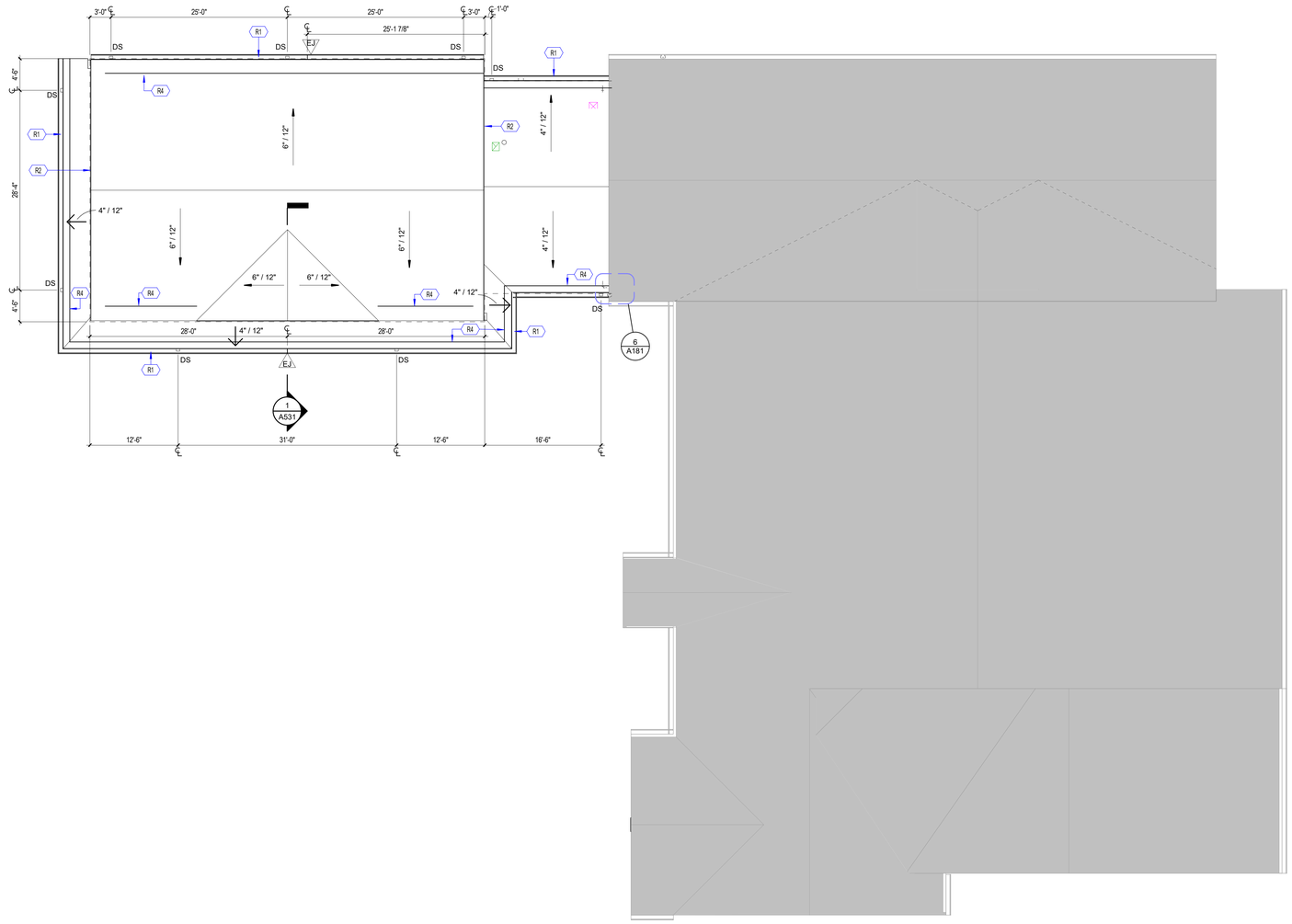
GENERAL NOTES - ROOF PLAN

A. ROOF PLAN DOES NOT SHOW ALL MECHANICAL / ELECTRICAL ROOFTOP EQUIPMENT AND PENETRATIONS, SUCH AS PLUMBING VENTS. SEE RESPECTIVE DRAWINGS FOR SUCH EQUIPMENT AND PENETRATIONS.

B. PROVIDE TAPERED INSULATION CRICKETS ON THE HIGH SIDE OF ALL ROOFTOP MOUNTED EQUIPMENT.

KEY NOTES - ROOF PLAN

R1	METAL GUTTER
R2	METAL FASCIA
R4	SNOW GUARD



N 1 A141 ROOF PLAN
1/8" = 1'-0"

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ROOF PLAN

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A141

0'-1" REFERENCE LINE

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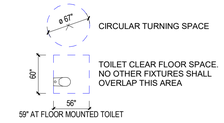
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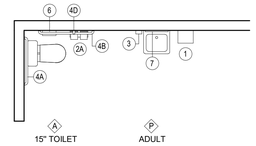
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TOILET AND BATH ACCESSORY SCHEDULE

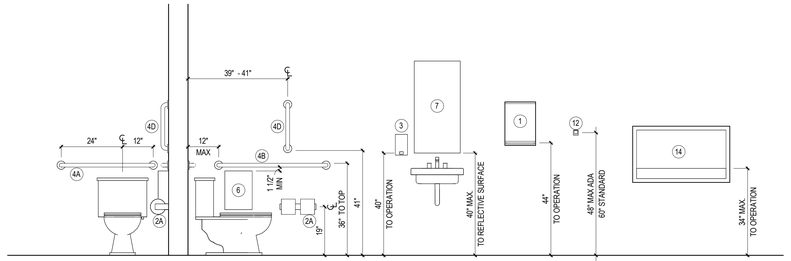
TBA	DESCRIPTION	SIZE/COMMENTS
1	PAPER TOWEL DISPENSER	LARGE COUNT
2	TOILET TISSUE DISPENSER	
2A	TOILET TISSUE DISPENSER	ADA
3	SOAP DISPENSER	
4A	GRAB BAR	36in
4B	GRAB BAR	42in
4D	GRAB BAR	18in
6	SANITARY NAPKIN DISPOSAL	
7	MIRROR UNIT	18" x 36"
12	TOWEL PIN	
14	DIAPER-CHANGING STATION	



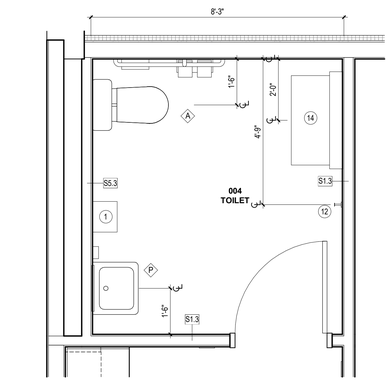
TOILET CLEARANCE LEGEND



TOILET ACCESSORY TYPES



MOUNTING HEIGHTS



1 / A151 ENLARGED RESTROOM PLAN
1/2" = 1'-0"

ISSUANCES

1	08-28-26	DESIGN DEVELOPMENT
3	10-30-26	BID/PERMIT

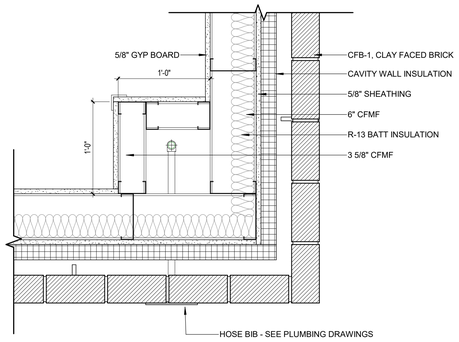
ENLARGED TOILET ROOM PLANS

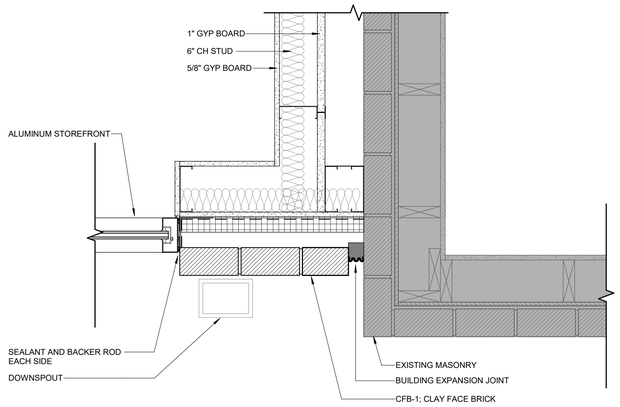
COMM NO. 2026032.01

A151

0'-1" REFERENCE LINE

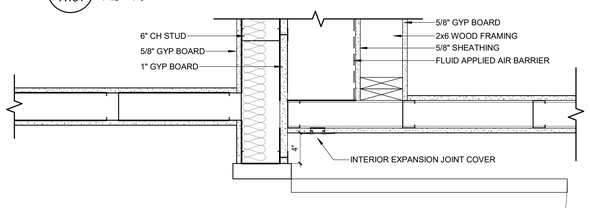
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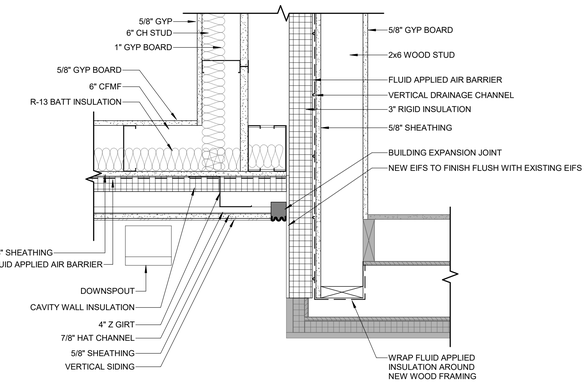
1 A181 BUILDING CORNER WITH CHASE

1 1/2" = 1'-0"



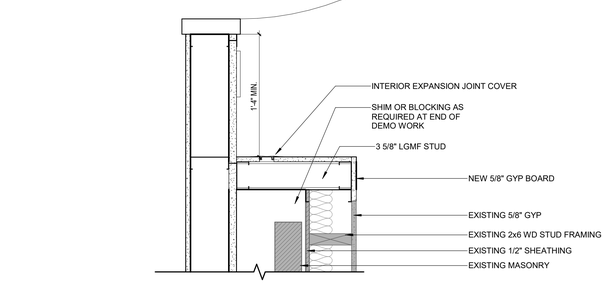
2 A181 PLAN DETAIL - BUILDING EXPANSION JOINT BELOW 3'-4"

1 1/2" = 1'-0"



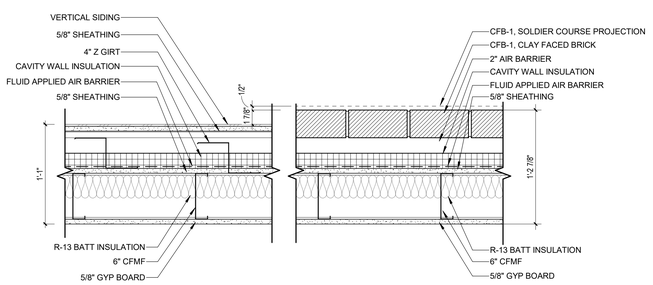
3 A181 PLAN DETAIL - BUILDING EXPANSION JOINT ABOVE 3'-4"

1 1/2" = 1'-0"



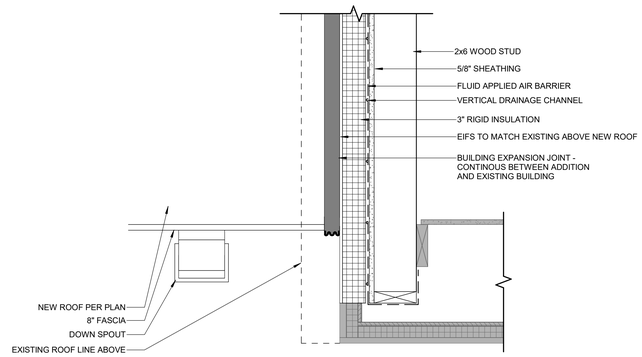
4 A181 PLAN DETAIL

1 1/2" = 1'-0"



5 A181 BUILDING ENVELOPE INFORMATION

1 1/2" = 1'-0"



6 A181 PLAN DETAIL - BUILDING EXPANSION JOINT AT ROOF

1 1/2" = 1'-0"

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PLAN DETAILS

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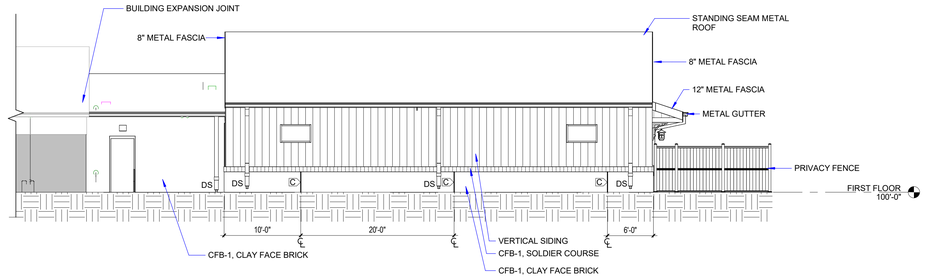
A181

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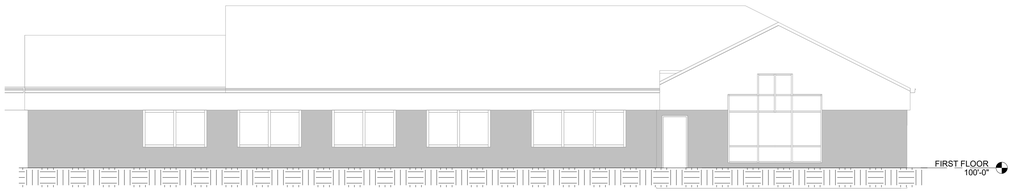
5'-1" REFERENCE LINE

GENERAL NOTES - EXTERIOR ELEVATIONS

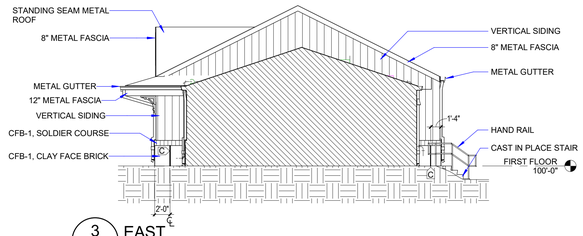
A. PROVIDE BRICK EXPANSION JOINTS AT ALL INSIDE CORNERS.
B. ALL EXTERIOR STOREFRONT FINISH IS MTL-1
C EXTERIOR BRACKETS TO BE SPACED EVENLY BETWEEN STOREFRONT OPENINGS AND EXTENTS OF THE WALL. BASIS OF DESIGN IS ROYAL CORINTHIAN ADJUSTABLE BRACKETS 0414 PORCH BRACKET.



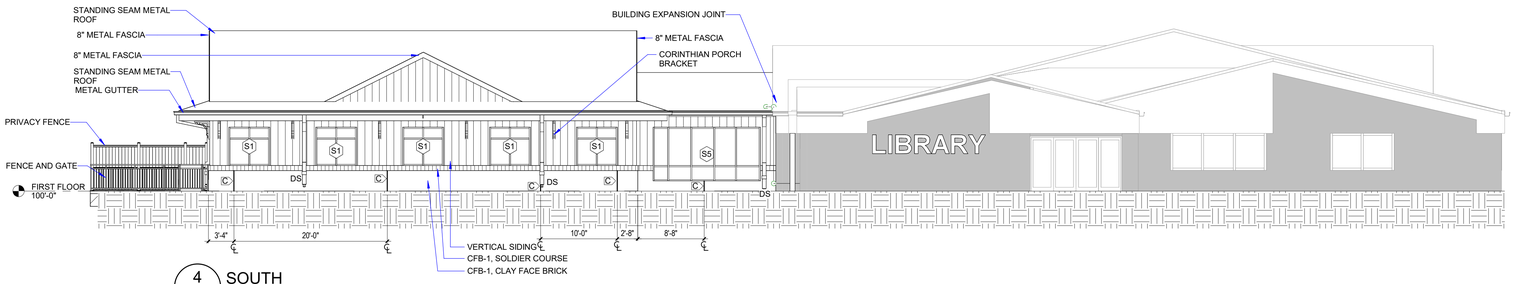
1 A201 NORTH
1/8" = 1'-0"



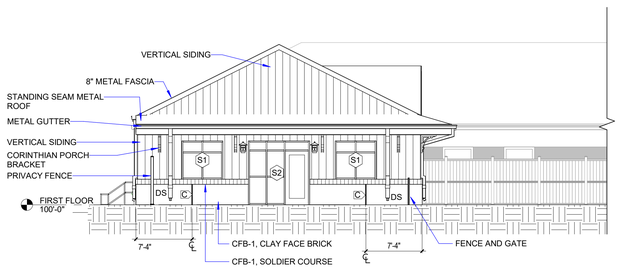
2 A201 EAST
1/8" = 1'-0"



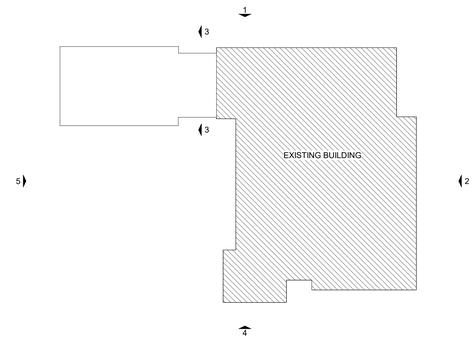
3 A201 EAST
1/8" = 1'-0"



4 A201 SOUTH
1/8" = 1'-0"



5 A201 WEST
1/8" = 1'-0"



KEY PLAN
NTS

0'-1" REFERENCE LINE

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EXTERIOR ELEVATIONS

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CEILING FINISH LEGEND

SAP 24x48	GYP
SAP 24x24	CEMENT PLASTER
	DEFS

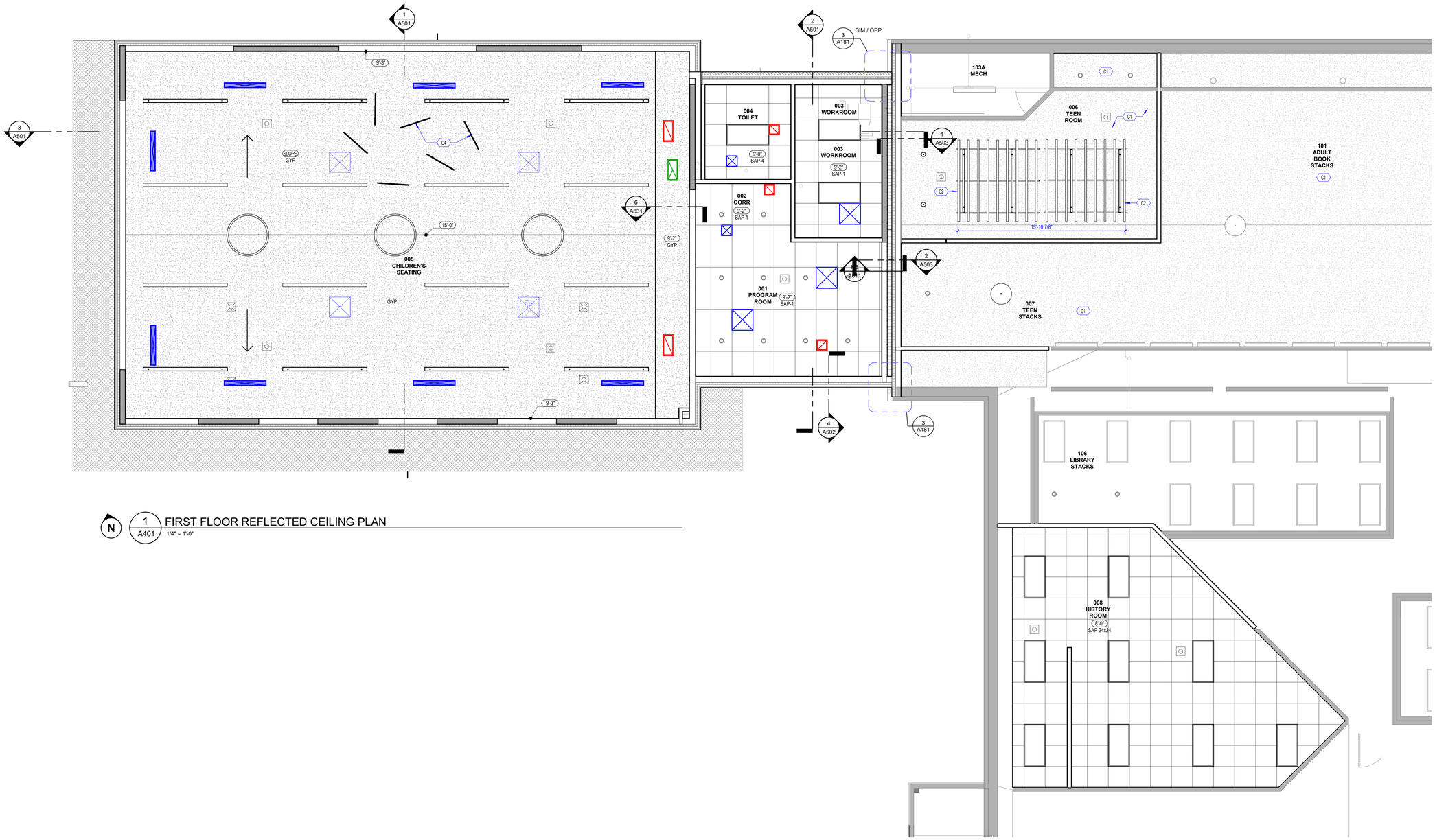
ABBREVIATIONS:
SAP SUSPENDED ACOUSTICAL PANEL
DEFS DIRECT-APPLIED EXTERIOR FINISH SYSTEM

GENERAL NOTES - REFLECTED CEILING PLAN

A. ALL EXPOSED CEILING STRUCTURE, DECK, DUCTWORK, CONDUIT, HANGERS, ETC. TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE.
B. PAINT ALL GYP BD SOFFITS PT-1 UNLESS NOTED OTHERWISE.
C. ALL EXPOSED INTERIOR STEEL (LINTELS, ETC) TO BE PAINTED TO MATCH ADJACENT WALL SURFACE UNLESS NOTED OTHERWISE. ALL EXTERIOR STEEL (LINTELS, ETC) TO BE PAINTED TO MATCH FIRST MASONRY COURSE ABOVE LINTEL UNLESS NOTED OTHERWISE.

KEY NOTES - REFLECTED CEILING PLANS

C1 EXISITNG CEILING TO REMAIN
C2 SOUND BAFFLE PANELS, BASIS OF DESIGN: ZINTRA BOX BAFFLES, 92" L X 6.7" D, FINISH: PREMIUM WOOD-LOOK
C4 1/4" THICK PLYWOOD CLOUD-SHAPED MOBILES, APPROXIMATLEY 3'-0" L X 2'-0" H, FINISH: UP TO 3 COLORS - TMC BASIS OF DESIGN



N

1 A401 FIRST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"

"0'-1" REFERENCE LINE

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REFLECTED CEILING PLAN

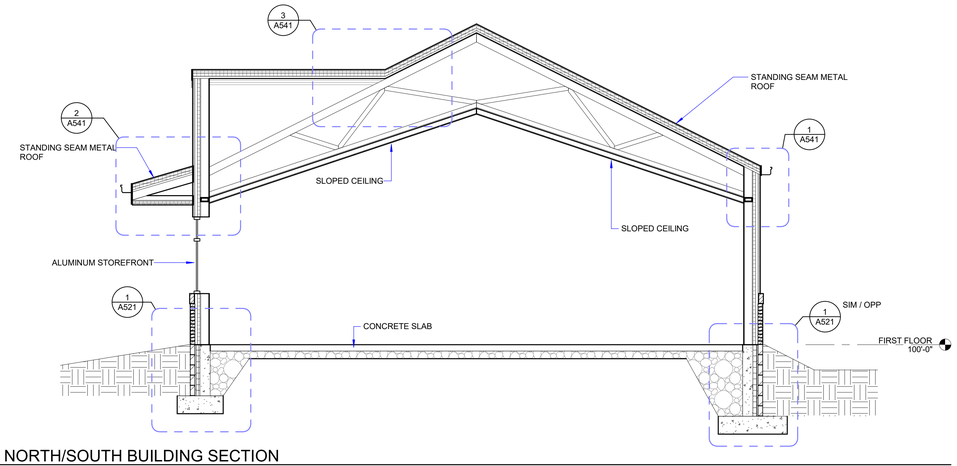
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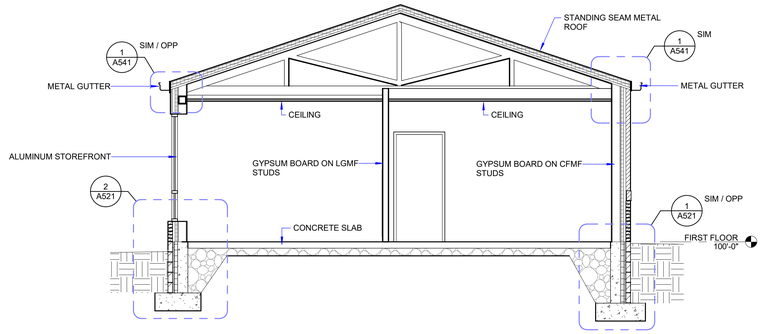
10/30/2026 2:53:20 PM C:\Users\rocallaghan\Documents_LFile27\2026032.01 Bradford PL - Childrens Room Add and Reno_rocallaghan9DDVL.rvt

GENERAL NOTES - BUILDING SECTIONS

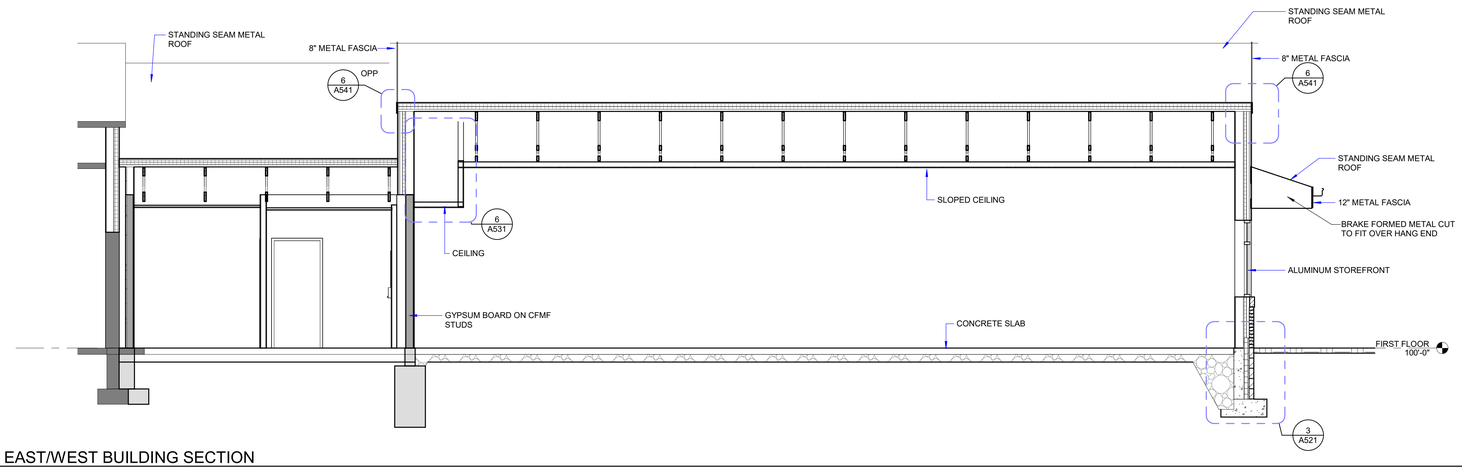
A. ROOF TRUSS PROFILE IS DIAGRAMMATIC ONLY. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



1 A501 NORTH/SOUTH BUILDING SECTION
1/4" = 1'-0"



2 A501 NORH/SOUTH BUILDING SECTION
1/4" = 1'-0"



3 A501 EAST/WEST BUILDING SECTION
1/4" = 1'-0"

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BUILDING SECTIONS

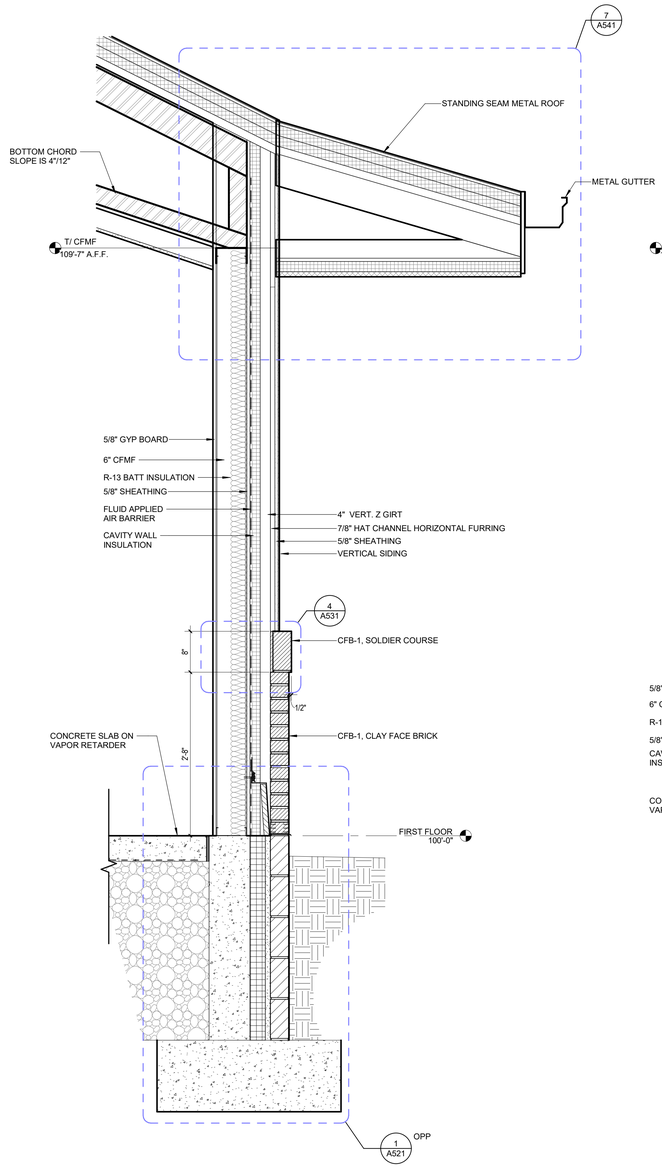
COMM NO. 2026032.01

A501

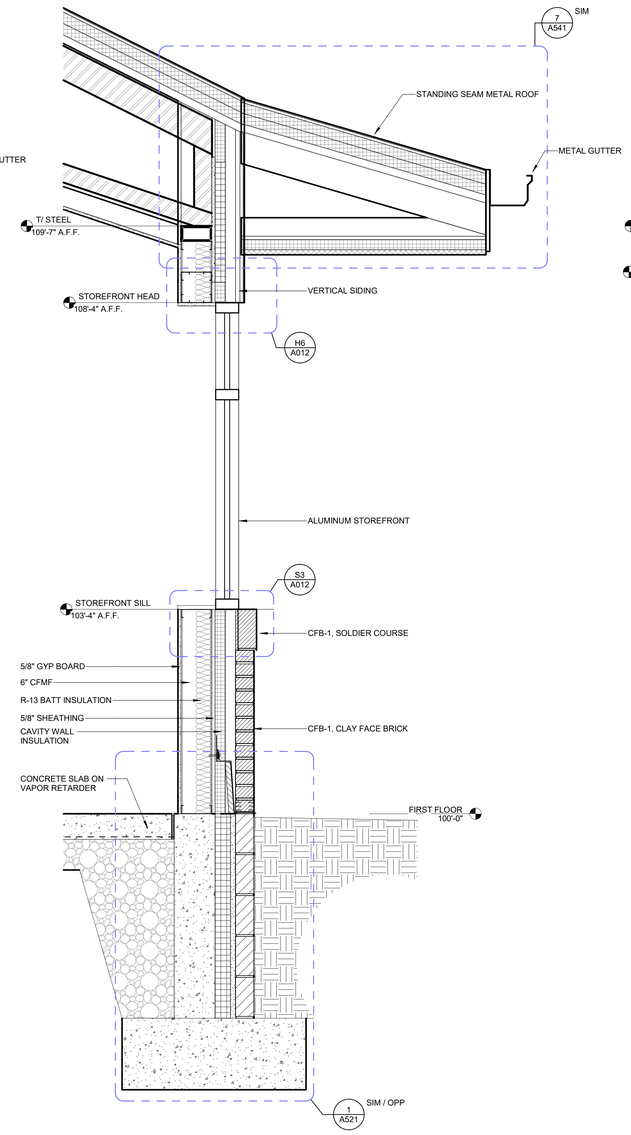
0'-1" REFERENCE LINE

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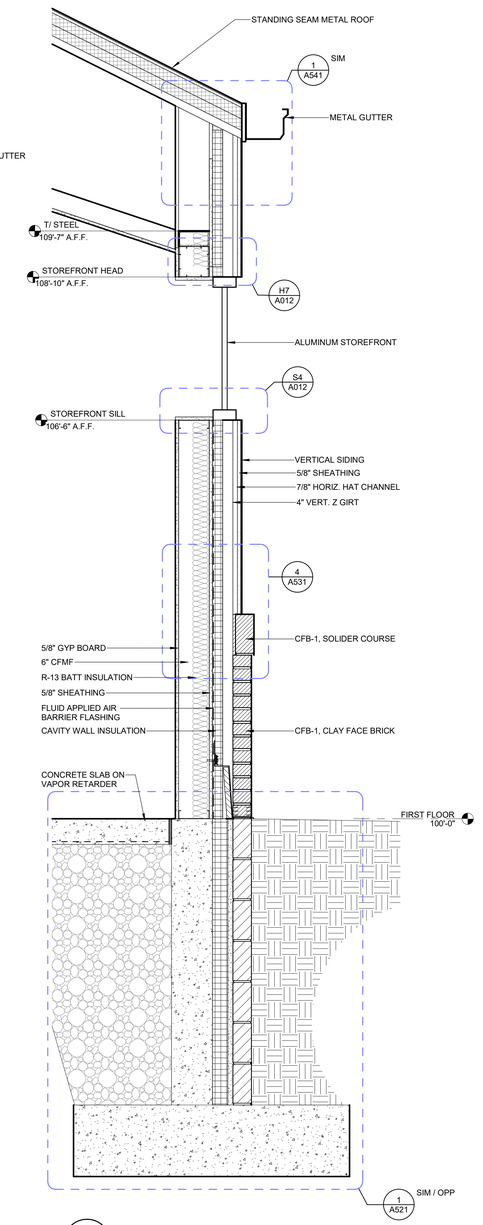
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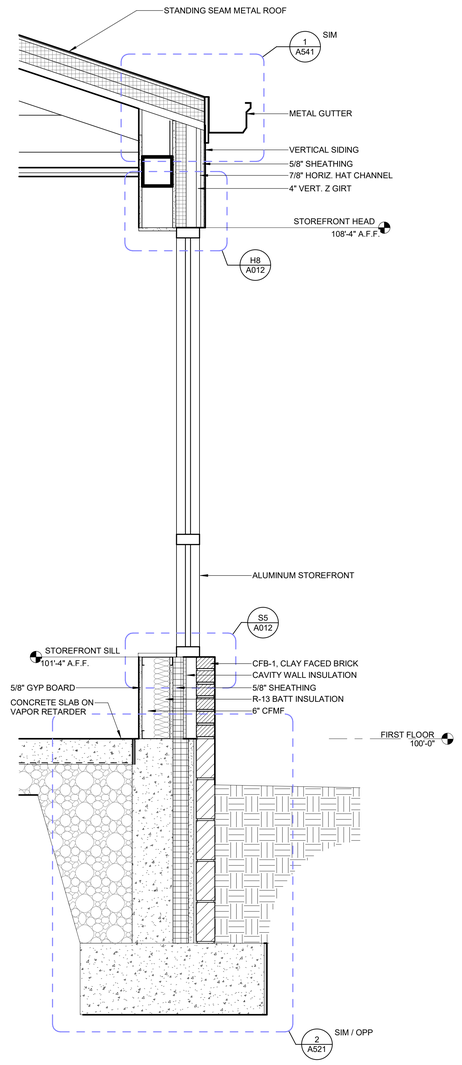
1 A502 EXTERIOR WALL SECTION
1" = 1'-0"



2 A502 TYP WINDOW WALL SECTION
1" = 1'-0"



3 A502 HIGH WINDOW SECTION
1" = 1'-0"



4 A502 PROGRAM SF SECTION
1" = 1'-0"

0'-1" REFERENCE LINE

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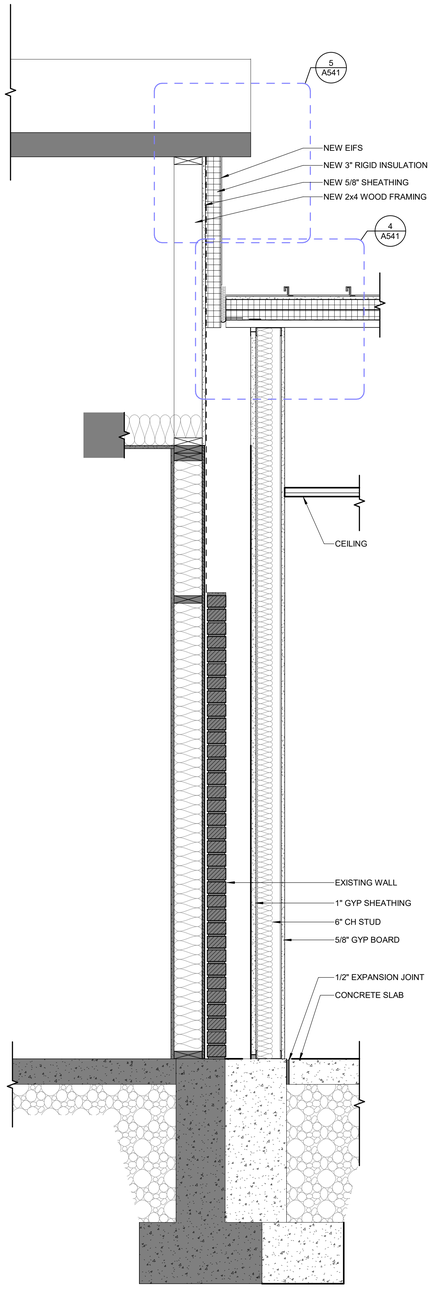
WALL SECTIONS

COMM NO. 2026032.01

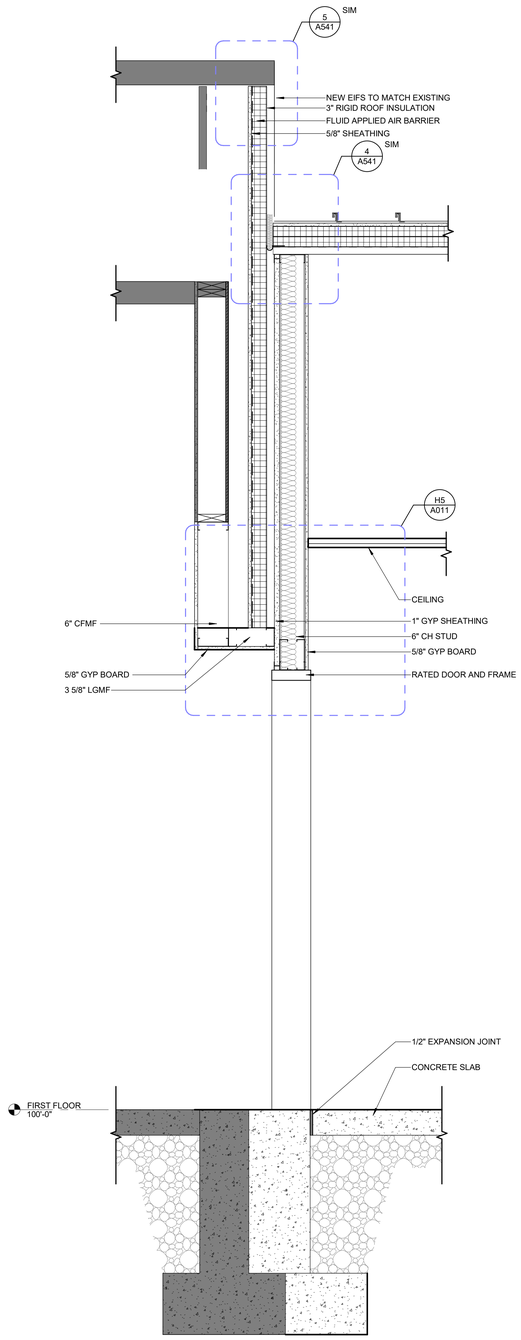
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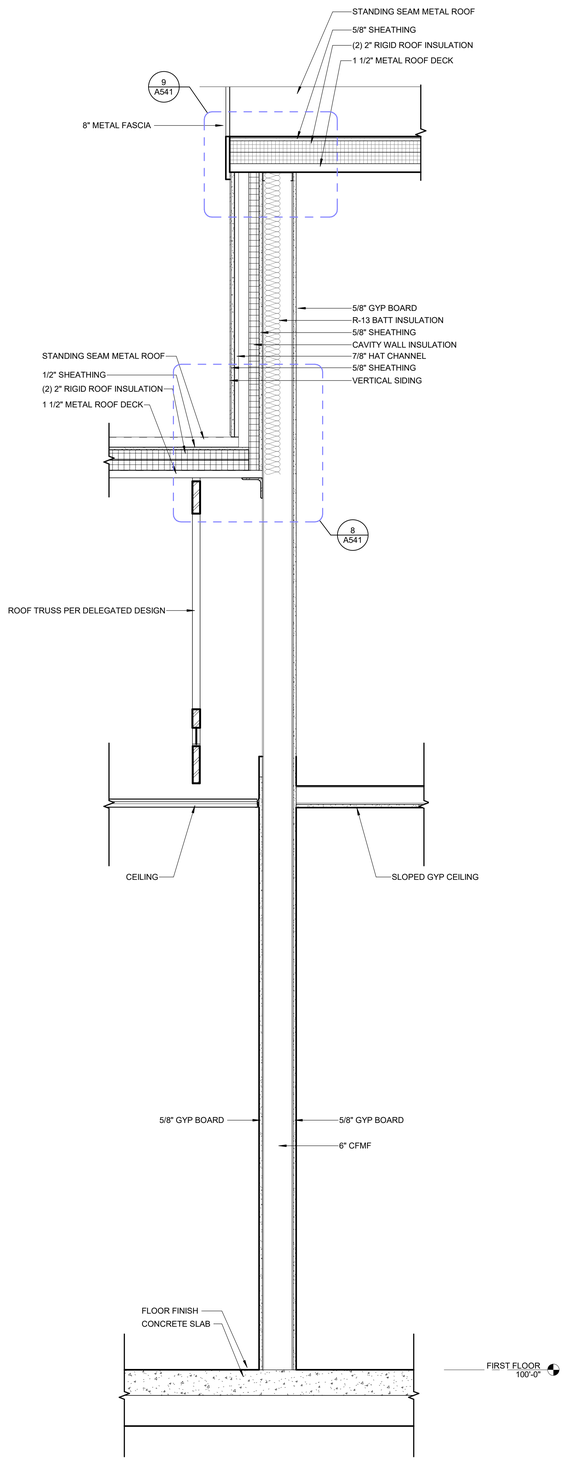
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1 A503 ADDITION TO EXISTING WALL SECTION
1" = 1'-0"



2 A503 ADDITION DOOR SECTION
1" = 1'-0"



3 A503 WALL SECTION
1" = 1'-0"

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A503

0'-1" REFERENCE LINE

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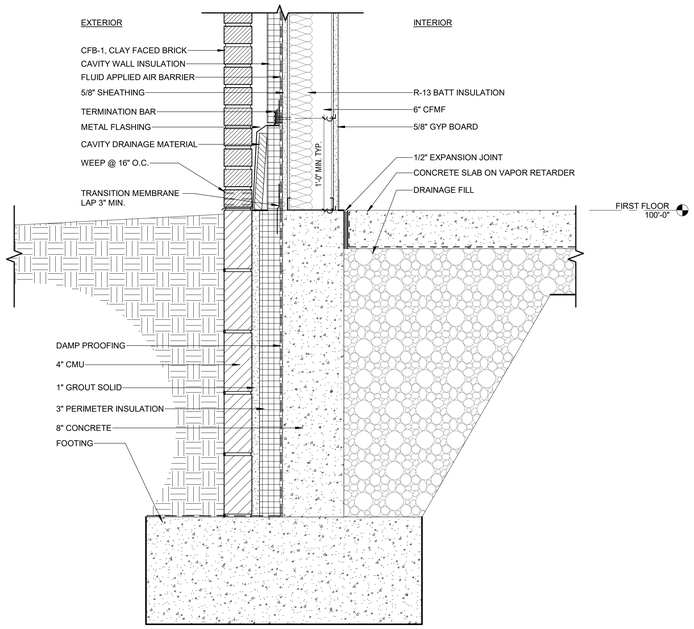
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ISSUANCES		
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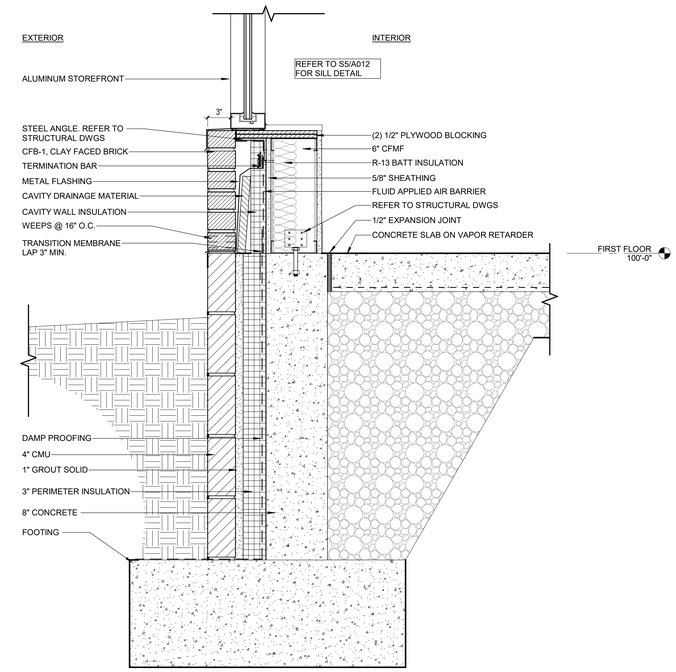
DETAILS

COMM NO. 2026032.01

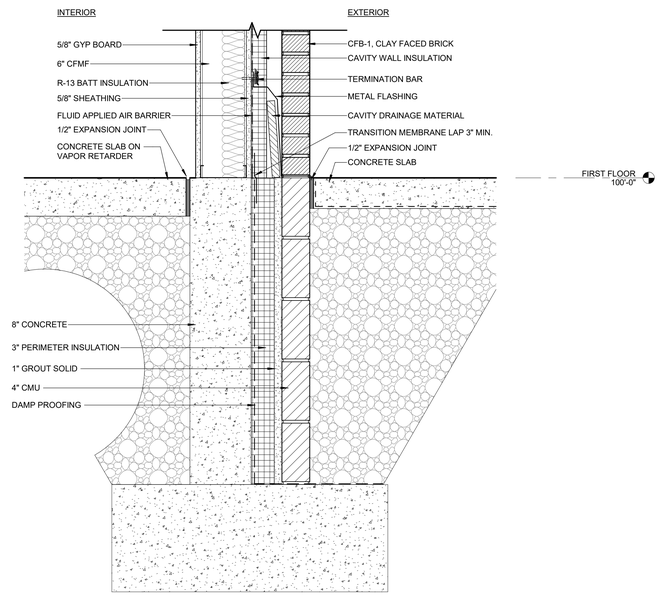
A521



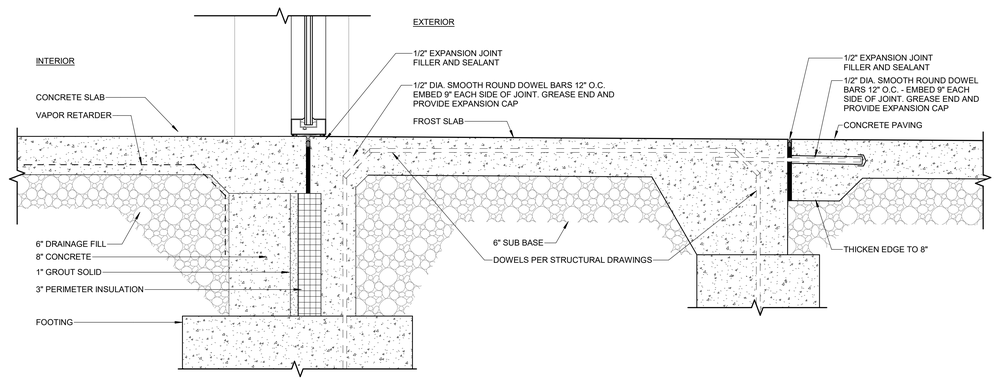
1 A521 FOUNDATION DETAIL
1 1/2" = 1'-0"



2 A521 FOUNDATION DETAIL
1 1/2" = 1'-0"



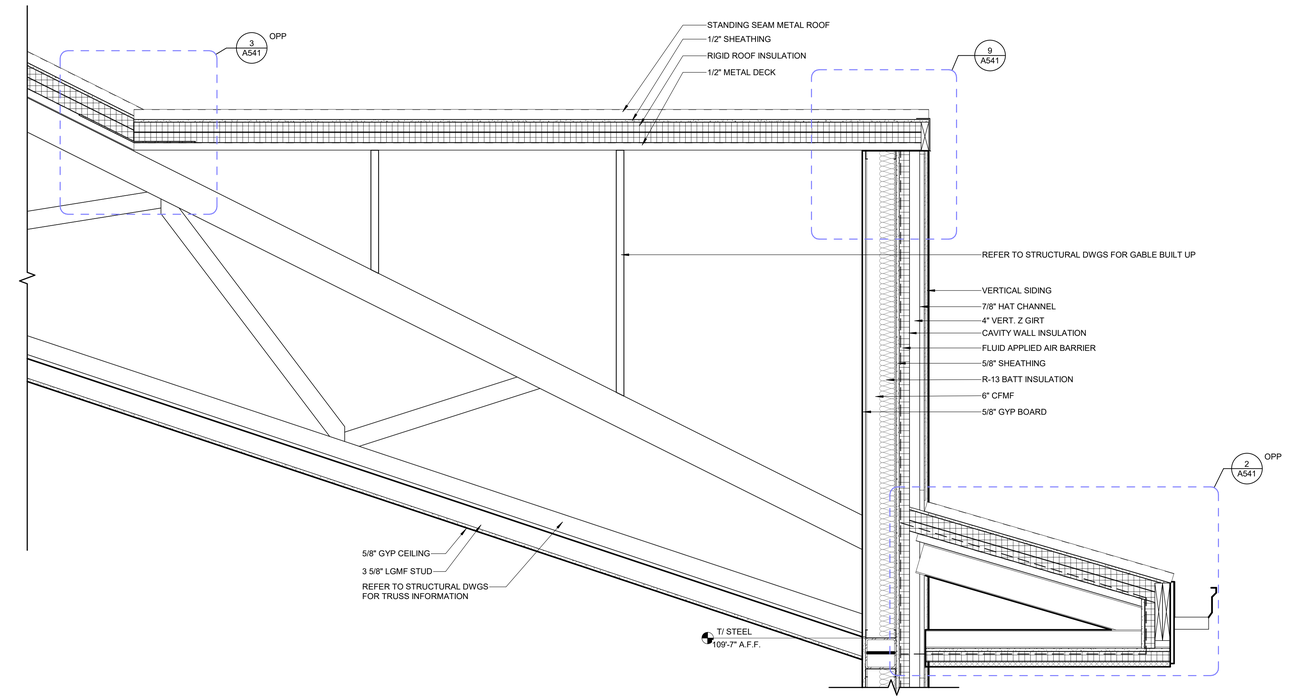
3 A521 FOUNDATION WITH PATIO
1 1/2" = 1'-0"



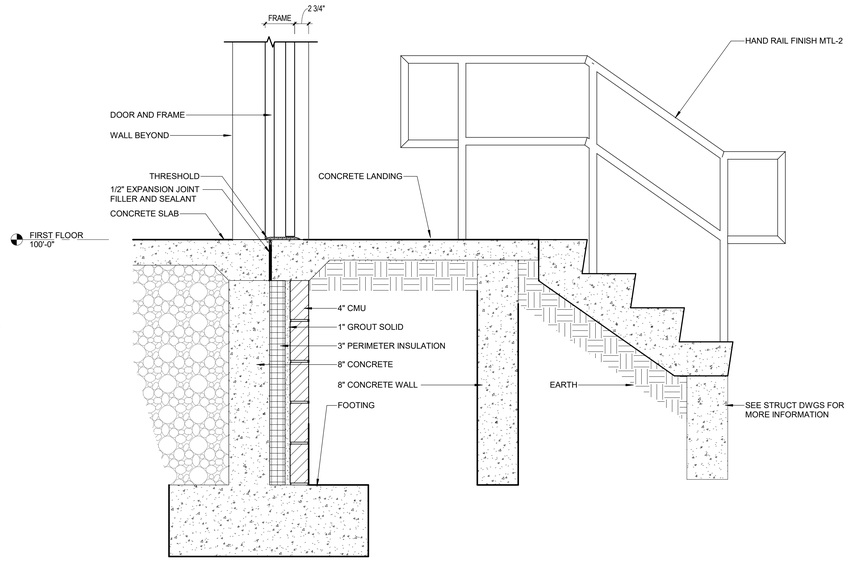
4 A521 FROST SLAB
1 1/2" = 1'-0"

0'-1" REFERENCE LINE

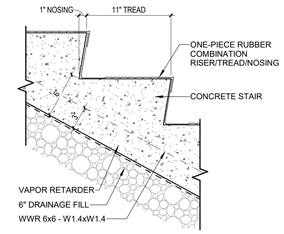
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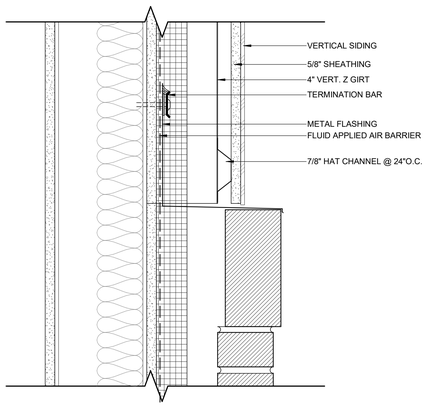
1 A531 GABLE OVER BUILD
1" = 1'-0"



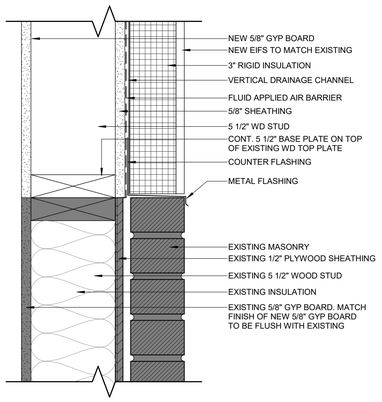
2 A531 STAIR DETAIL
1" = 1'-0"



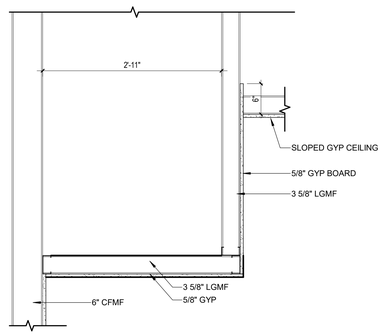
3 A531 CONCRETE STAIR DETAIL
1 1/2" = 1'-0"



4 A531 BRICK TO SIDING TRANSITION
3" = 1'-0"



5 A531 NEW EIFS TO EXG BRICK
3" = 1'-0"



6 A531 BULK HEAD DETAIL
1" = 1'-0"

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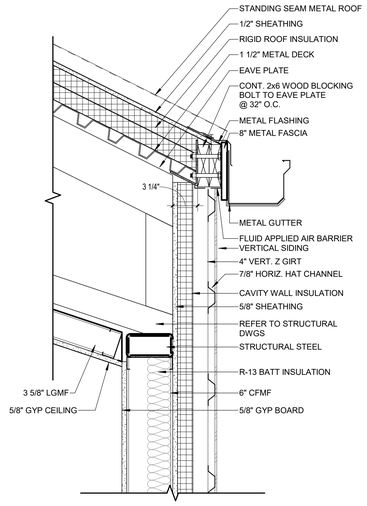
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A531

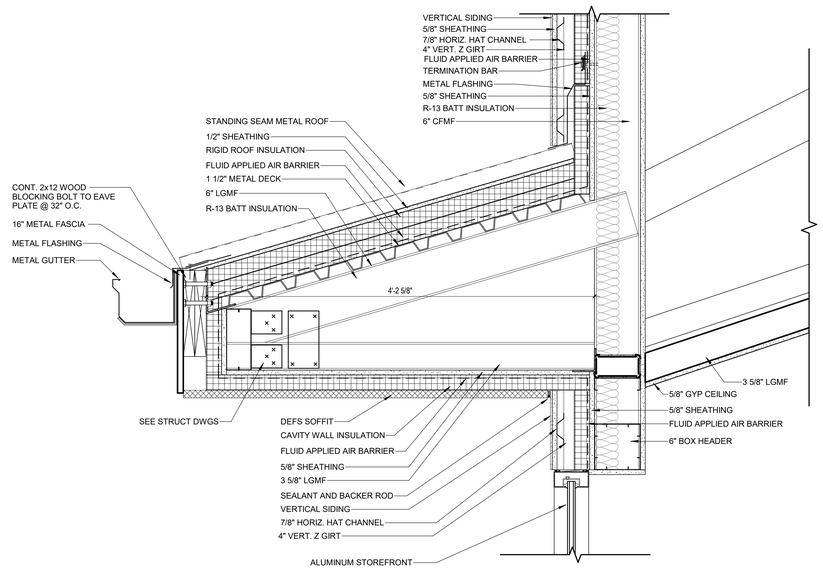
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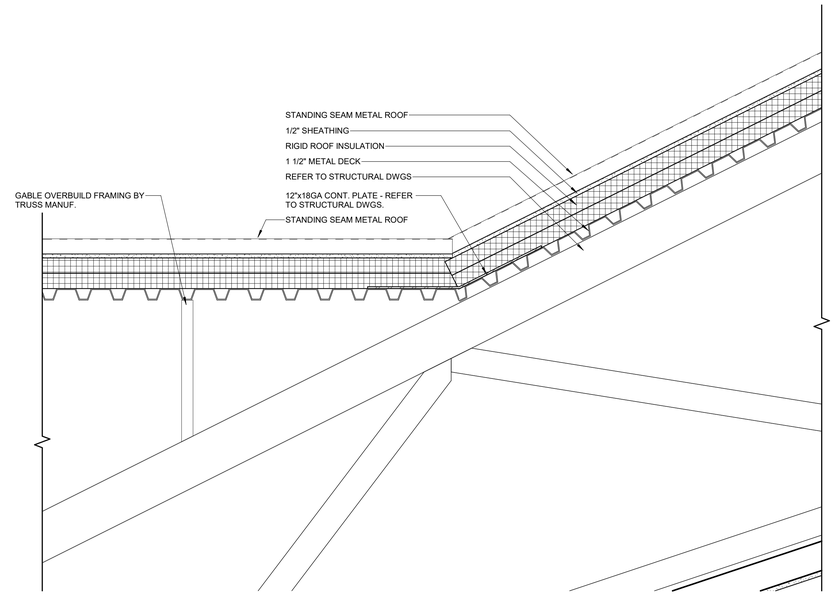
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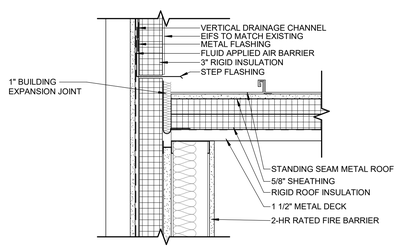
1 A541 ROOF EAVE DETAIL
1 1/2" = 1'-0"



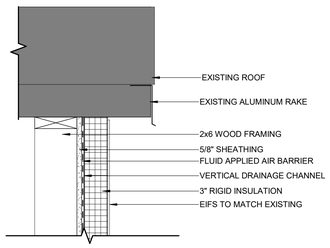
2 A541 SOUTH OVERHANG
1 1/2" = 1'-0"



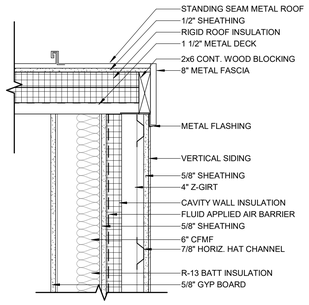
3 A541 DORMER MAIN ROOF INTERSECTION
1 1/2" = 1'-0"



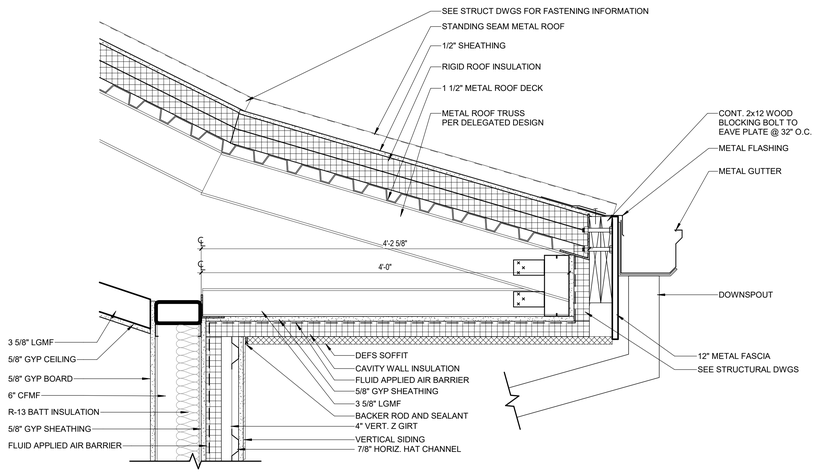
4 A541 NEW ROOF INTO EXG
1 1/2" = 1'-0"



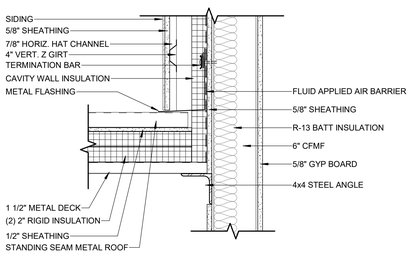
5 A541 EXISTING ROOF TO NEW EIFS
1 1/2" = 1'-0"



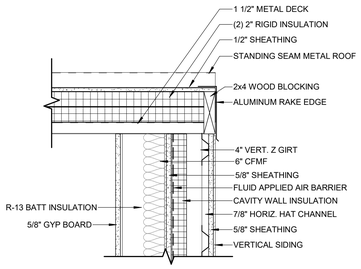
6 A541 RAKE END ROOF DETAIL
1 1/2" = 1'-0"



7 A541 ROOF OVERHANG DETAIL
1 1/2" = 1'-0"



8 A541 NEW ROOF TO WALL INTERSECTION
1 1/2" = 1'-0"



9 A541 ROOF END @ HIGH GABLE
1 1/2" = 1'-0"

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A541

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FINISH LISTING - FLOORING

CPT-1	MILLIKEN	1M X 25CM TILE, PRODUCT: TRANSCEND; COLOR: TRA213 - 13 CONNECT
CPT-2	MILLIKEN	1M X 25CM TILE, PRODUCT: SYNCHRONICITY; COLOR: SYN219-105 MERGE
CPT-3	MILLIKEN	1M X 25CM TILE, PRODUCT: SYNCHRONICITY; COLOR: SYN265-283 ATTRACT
CT-1	AMERICAN OLEAN	AVENNE STONE, 12 X 24 TILE & 2 X 2 MOSAIC TILE, COLOR: PLAZA AS42

FINISH LISTING - WALL COVERING

WC-1	GRAVITY DIGITAL WALLS, G1-05-03 RED BRICK TWV-C-IL
WC-2	LEVEL DIGITAL WALLCOVERINGS, 51706 WORD WALLS, SCRIPT- SHARPIE

FINISH LISTING - PAINT

PT-1	TO MATCH SHERWIN WILLIAMS WHITE DUCK (SW7010)
PT-2	TO MATCH SHERWIN WILLIAMS HONEST BLUE (SW6520)
PT-3	TO MATCH SHERWIN WILLIAMS MORNING FOG (SW6255)
PT-4	TO MATCH EXISTING PAINT
PT-5	TO MATCH EXISTING

FINISH LISTING - LAMINATES

PLAM-1	WILSONART, KENSINGTON MAPLE (10776-60)
PLAM-2	WILSONART, MISTED ZEPHYR (4843-60)

FINISH LISTING - BASE

--	NO BASE	NO BASE
CTB-1	CERAMIC TILE BASE	COVE BASE TO MATCH CT-1
RB-1	RUBBER BASE	TO MATCH EXISTING BASE

FLOOR PATTERN LEGEND

CPT-1 CPT-2
CT-1 CPT-3

GENERAL NOTES - INTERIOR FLOOR PLAN

A. SEE A001 FOR SYMBOLS LEGEND.
B EXTEND FLOORING MATERIAL UNDER OPEN CASEWORK.
C WHEN MATERIAL TRANSITIONS OCCUR AT A DOORWAY, TRANSITION TO OCCUR AT THE CENTERLINE OF THE CLOSED DOOR.
D SEE STRUCTURAL FOUNDATION AND PLUMBING PLANS FOR DRAIN AND SLOPE LOCATIONS.

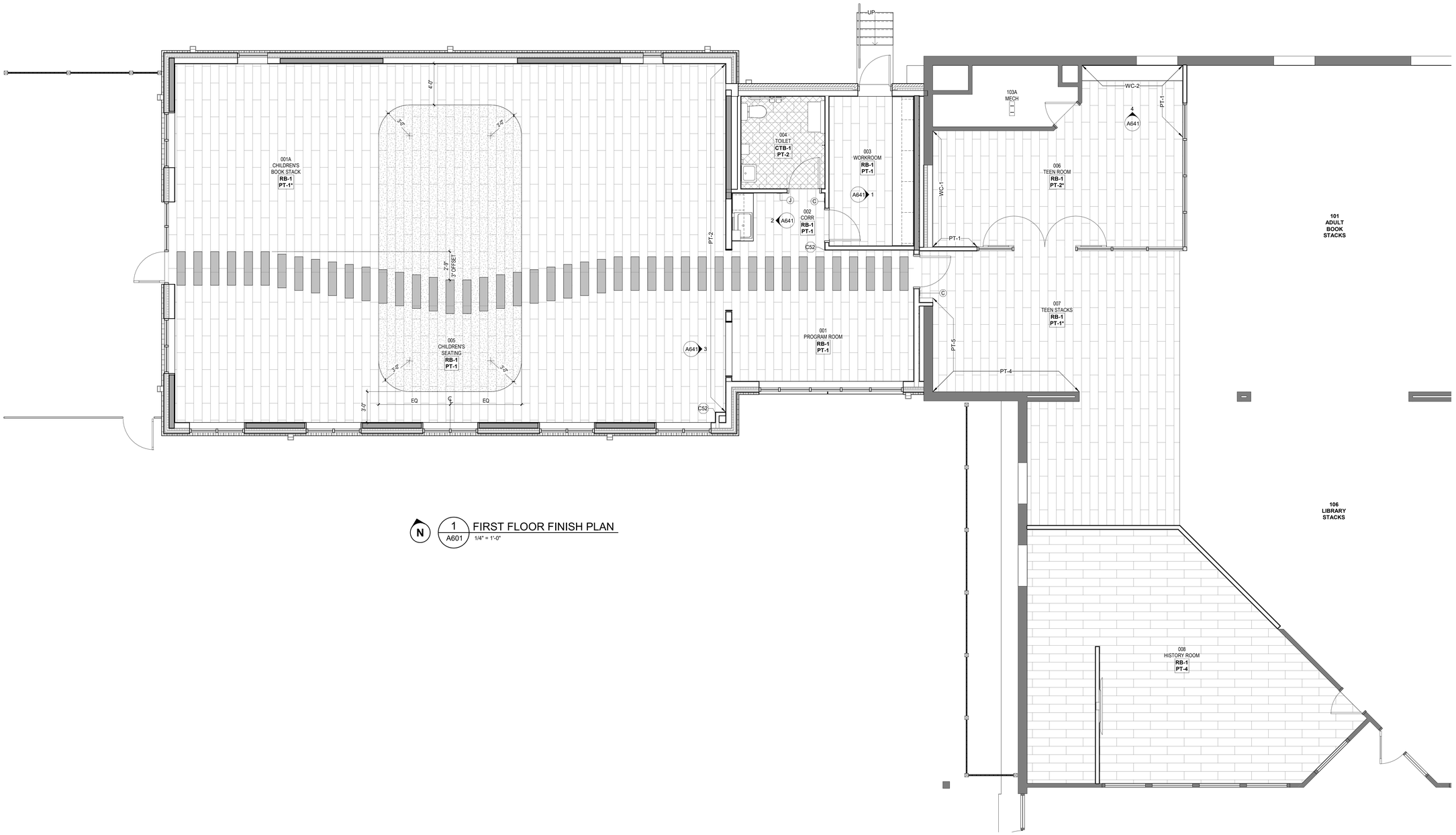
GENERAL NOTES - PAINTING

A. ROOMS WHERE THE PAINT FINISH IS LISTED AS "-" SHOULD NOT BE PAINTED.
B. SEE REFLECTED CEILING PLANS FOR CEILING, SOFFIT, AND STRUCTURE PAINT COLORS.
C. PAINT WINDOW JAMBS TO MATCH ADJACENT WALL COLOR - WRAP ACCENT PAINT.
D. PAINT RETURN AIR WALL GRILLES AND ACCESS PANELS TO MATCH ADJACENT WALL COLOR.

KEY NOTES - FINISH PLANS

CORNER GUARD LEGEND:

C=CORNER GUARD — C* — * = FULL HEIGHT OF WALL
C48 — # = PARTIAL HEIGHT IN INCHES



N 1 A601 FIRST FLOOR FINISH PLAN
1/4" = 1'-0"

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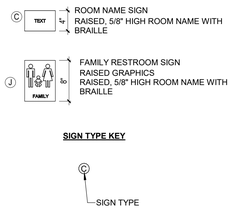
INTERIOR FLOOR PLAN - FIRST FLOOR

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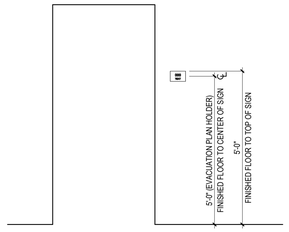
A601

0'-1" REFERENCE LINE

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SIGN TYPE LEGEND

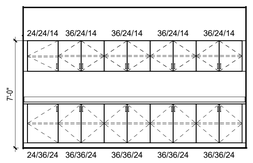


SIGN MOUNTING HEIGHTS

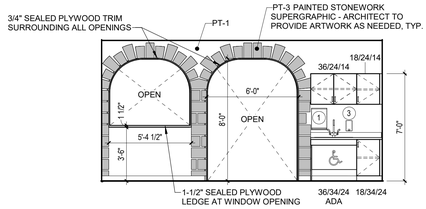
SIGN SCHEDULE

ROOM		SIGN				
NUMBER	NAME	TYPE	NUMBER	CONTENT	INSERT	VINYL BACKER
001	PROGRAM ROOM	C	-	CHILDREN'S AREA	-	-
003	WORKROOM	C	-	WORKROOM	-	-
004	TOILET	J	-	FAMILY	-	-

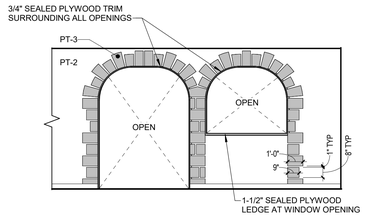
Grand total: 3



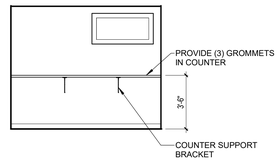
1 A641 003 WORKROOM
1/4" = 1'-0"



2 A641 001 PROGRAM ROOM
1/4" = 1'-0"



3 A641 005 CHILDREN
1/4" = 1'-0"



4 A641 103 TEEN ROOM
1/4" = 1'-0"

5 A641 ADA SINK DETAIL
1" = 1'-0"

KEY TO CASEWORK NUMBERS

36/72/30 ADA
- WIDTH/HEIGHT/DEPTH (NOMINAL DIMENSIONS BASED ON CABINET WITH COUNTERTOP)
- INDICATES ADA ACCESSIBLE CABINET

GENERAL NOTES - CASEWORK

A. COORDINATE ALL CASEWORK WITH PLUMBING AND ELECTRICAL DRAWINGS.
B. FOR ALL SINKS LABELED "ADA" REFER TO DETAIL 5/-
C. ALL PLASTIC LAMINATE CASEWORK TO BE PLAM-1 UNLESS NOTED OTHERWISE. ALL PLASTIC LAMINATE COUNTERTOPS TO BE PLAM-2.
D. UNLESS NOTED OTHERWISE, ALL SHELVES ARE TO BE ADJUSTABLE UNLESS A FIXED SHELF IS REQUIRED FOR CABINET STABILITY.
E. REFER TO A151 FOR SOAP AND PAPER TOWEL MOUNTING HEIGHT INFORMATION

FINISH LISTING - PAINT

PT-1	TO MATCH SHERWIN WILLIAMS WHITE DUCK (SW7010)
PT-2	TO MATCH SHERWIN WILLIAMS HONEST BLUE (SW6520)
PT-3	TO MATCH SHERWIN WILLIAMS MORNING FOG (SW6255)
PT-4	TO MATCH EXISTING PAINT
PT-5	TO MATCH EXISTING

FINISH LISTING - LAMINATES

PLAM-1	WILSONART, KENSINGTON MAPLE (10776-60)
PLAM-2	WILSONART, MISTED ZEPHYR (4843-60)

FINISH LISTING - SOLID SURFACE

SLDS-1	WILSONART, GARDAR CLIFF 9256SS

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INTERIOR ELEVATIONS & DETAILS

COMM NO. 2026032.01

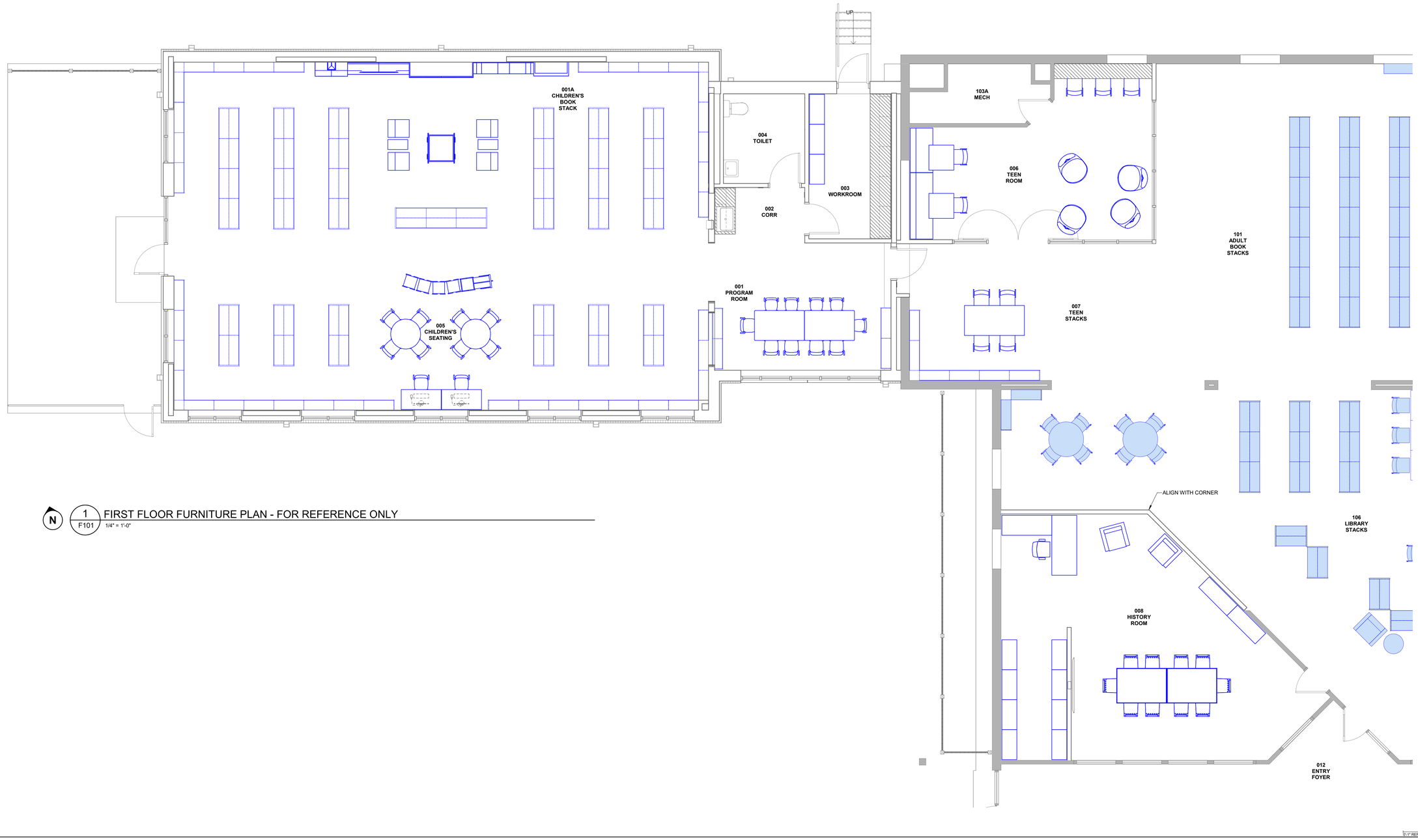
A641

0'-1" REFERENCE LINE

10/30/2026 2:53:26 PM C:\Users\rocallaghan\Documents_LFile27\2026032.01 Bradford PL - Childrens Room Add and Reno_rocallaghan9DDVL.rvt

GENERAL NOTES - FURNITURE

A. FURNITURE SHOWN FOR REFERENCE ONLY. ALL LOOSE FURNISHINGS SHOWN ARE NOT INCLUDED WITHIN THIS BID PACKAGE.



N

1 / F101 FIRST FLOOR FURNITURE PLAN - FOR REFERENCE ONLY

1/4" = 1'-0"

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STATE OF OHIO
Allison
Emma
McKenzie
0914857
REGISTERED ARCHITECT

Allison Emma McKenzie, Lic# 0914857
Expiration Date 12/31/2027

SHP
311 ELM STREET, SUITE 500
CINCINNATI, OH 45202 513.651.2112

BRADFORD PUBLIC LIBRARY

CHILDREN'S AREA ADDITION

138 E. MAIN STREET, BRADFORD, OH 45308

ISSUANCES

1	08-28-26	DESIGN DEVELOPMENT
3	10-30-26	BID/PERMIT

FIRST FLOOR FURNITURE PLAN

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GOVERNING CODE

2024 OHIO BUILDING CODE (REFERENCES IBC 2021 ASCE 7-16)

DESIGN LOADS

1. CFS TRUSS FRAMED ROOF LOAD.

A.	MINIMUM COMBINATION OF WIND LOAD, LIVE LOAD, RAIN LOAD, OR SNOW LOAD ((P_f OR P_m)	20 PSF*
B.	ROOF MEMBRANE & INSULATION	3 PSF
D.	METAL DECK	2 PSF
E.	JOIST FRAMING LOAD	3 PSF
F.	CEILING	3 PSF
G.	SPRINKLERS	3 PSF
H.	DUCTS, LIGHTS, MISC. MECHANICAL	4 PSF
	TOTAL LOADS ON TRUSSES	38 PSF MIN

*FLAT ROOF SNOW LOAD, P_F = 14 PSF
GROUND SNOW, P_g = 20 PSF
SNOW LOAD IMPORTANCE FACTOR, I_S = 1.0
SNOW EXPOSURE FACTOR, C_e = 1.0
SNOW LOAD THERMAL FACTOR, C_t = 1.0
MINIMUM SNOW LOAD, P_m = 20 PSF

SEE SNOW DRIFT PLAN FOR DRIFT LOADS (P_d). SPECIFIED DRIFT LOADS (P_d) SHALL BE COMBINED WITH FLAT ROOF SNOW LOAD (P_f) OR SLOPED ROOF SNOW LOAD (P_s) FOR TOTAL SNOW LOADING AT DRIFT CONDITIONS

2. WIND LOAD (PER ASCE 7):

   A. BASIC DESIGN WIND SPEED, V= 107 MPH
   B. ALLOWABLE STRESS DESIGN WIND SPEED, V_{ASD} = 83 MPH
   C. RISK CATEGORY = II
   D. WIND EXPOSURE = C (ALL WIND DIRECTIONS)
   E. INTERNAL PRESSURE COEFFICIENT, GCpi = +0.18, -0.18
   F. DESIGN PRESSURES FOR EXTERIOR COMPONENT AND CLADDING ITEMS NOT SPECIFICALLY DESIGNED BY THE ENGINEER OF RECORD: SEE TYPICAL COMPONENT AND CLADDING WIND PRESSURE TABLE SPECIALTY ENGINEER SHALL DETERMINE WIND LOADS UNDER GOVERNING BUILDING CODE, AND BASED ON WIND LOAD PARAMETERS DEFINED ABOVE.

3. SEISMIC LOAD

A.	SEISMIC RISK CATEGORY	= II
B.	SEISMIC IMPORTANCE FACTOR, I_e	= 1.0
C.	MAPPED SPECTRAL RESPONSE ACCELERATION FACTOR AT SHORT PERIOD, S_S	= 0.214
D.	MAPPED SPECTRAL RESPONSE ACCELERATION FACTOR AT 1 SECOND PERIOD, S_1	= 0.075
E.	SITE CLASS	= D
F.	DESIGN SPECTRAL RESPONSE ACCELERATION FACTOR AT SHORT PERIODS, S_{DS}	= 0.228
G.	DESIGN SPECTRAL RESPONSE ACCELERATION FACTOR AT 1 SECOND PERIOD, S_{D1}	= 0.119
H.	SEISMIC DESIGN CATEGORY	= B
I.	BASIC SEISMIC FORCE RESISTING SYSTEM	= LIGHT FRAME (COLD-FORMED STEEL) WALL SYSTEMS USING FLAT STRAP BRACING.
J.	RESPONSE MODIFICATION COEFFICIENT, R	= 4
K.	SEISMIC RESPONSE COEFFICIENT, C_S	= 0.057
L.	DESIGN BASE SHEAR	= 5.8 KIP
M.	ANALYSIS PROCEDURE USED	= ELFP

4. CONCENTRATED LOADS: 2000 POUNDS OVER 2.5 FEET SQUARE

5. SPECIAL LOADS:

   A. INTERIOR WALLS AND PARTITIONS THAT EXCEED 6 FEET IN HEIGHT: 5 PSF HORIZONTAL LIVE LOAD.

   B. HANDRAILS AND GUARDRAILS:
      i. TOP RAIL: 200 POUND CONCENTRATED LOAD AT ANY POINT IN ANY DIRECTION OR 5O PLF UNIFORM LOAD APPLIED IN ANY DIRECTION.
      ii. INTERMEDIATE RAILS, BALUSTERS, AND PANEL FILLERS: HORIZONTALLY APPLIED NORMAL LOAD OF 50 POUNDS ON AN AREA NOT TO EXCEED 1 SQUARE FT., INCLUDING OPENINGS AND SPACE BETWEEN RAILS.

CONSTRUCTION AND SAFETY

1. CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.

2. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.

3. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS/HER OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.

4. PRIOR TO COMMENCEMENT OF STEEL ERECTION, CONTRACTOR MUST PROVIDE THE STEEL ERECTOR WRITTEN NOTIFICATION THAT THE CONCRETE IN THE FOOTINGS, PIERS AND WALLS OR THE MORTAR IN THE MASONRY PIERS AND WALLS HAS ATTAINED EITHER 75 PERCENT OF THE INTENDED MINIMUM COMPRESSIVE DESIGN STRENGTH OR SUFFICIENT STRENGTH TO SUPPORT THE LOADS IMPOSED DURING STEEL ERECTION.

5. ANCHOR RODS AND FOUNDATION DOWELS SHALL NOT BE REPAIRED, REPLACED OR FIELD-MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

6. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. SHOULD ANY DISCREPANCY BE FOUND, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF THE CONDITION.

7. CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED DURING DEMOLITION AND CONSTRUCTION TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.

LATERAL LOAD RESISTING SYSTEM

1. THE LATERAL LOAD RESISTING SYSTEM CONSISTS OF THE FOLLOWING ELEMENTS:

   A. METAL ROOF DECK DIAPHRAGM THROUGHOUT

   B. LIGHT-FRAME (COLD-FORMED STEEL) WALL SYSTEMS USING FLAT STRAP BRACING AROUND THE PERIMETER OF THE ADDITION.

FOUNDATIONS

1. FOUNDATION DESIGN IS BASED UPON RECOMMENDATIONS DESCRIBED IN THE GEOTECHNICAL ENGINEER'S REPORT BY PSI INC, DATED SEPTEMBER 2, 2026. THE GEOTECHNICAL ENGINEER'S REPORT IS AVAILABLE UPON REQUEST.

   A. ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1 IN 12) UNDISTURBED SOIL OR APPROVED ENGINEERED FILL. FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 3500 PSF BELOW STRIP FOOTINGS AND 3500 PSF BELOW ISOLATED COLUMN FOOTINGS.

2. ALL AREAS WITHIN THE FOOTPRINT OF THE BUILDING, INCLUDING UTILITY TRENCHES, MUST BE FREE OF ANY WET AND/OR SOFT AREAS PRIOR TO PLACEMENT OF FILL MATERIAL OR SLAB.

3. CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.

4. FILL MATERIALS: ALL FILL MATERIALS SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER, INCLUDING THE SUITABILITY OF ALL EXCAVATED ON-SITE SOILS FOR RE-USE. MATERIAL SHALL NOT BE PLACED ON FROZEN GROUND.

   A. CONTROLLED LOW STRENGTH MATERIAL (CLSM): SELF LEVELING AND SELF COMPACTING CEMENTITIOUS MATERIAL WITH AN UNCONFINED COMPRESSIVE STRENGTH BETWEEN 50 PSI] AND 150 PSI.

   B. WELL GRADED GRANULAR MATERIAL: WELL GRADED MIXTURE OF CRUSHED GRAVEL, CRUSHED STONE, AND SAND PER ASTM D2940 WITH AT LEAST 95 PERCENT PASSING A 1 ½" SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NO. 200 SIEVE OR ODOT 304.

   C. FREE DRAINING GRANULAR FILL: NARROWLY GRADED MIXTURE OF CRUSHED STONE PER ASTM D448 WITH COARSE AGGREGATE GRADING SIZE 67 WITH 100 PERCENT PASSING A 1 INCH SIEVE AND NO MORE THAN 5 PERCENT PASSING A NO. 4 SIEVE OR AASHTO NO 57 — CRUSHED AGGREGATE.

   D. IMPERVIOUS FILL: LEAN CLAYEY GRAVEL AND SAND MIXTURE CAPABLE OF COMPACTING TO A DENSE STATE.

5. FOUNDATION ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES AND MAY VARY TO SUIT SUB-SURFACE SOIL CONDITION. ELEVATION AND BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR CLSM UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS

6. FROST DEPTH IS 42 INCHES BELOW GRADE. BOTTOM OF FOOTINGS, MAT FOUNDATIONS AND GRADE BEAMS THAT ARE NOT PART OF AN INSULATED FROST PROTECTED FOUNDATION SYSTEM AND ARE NOT WITHIN CONDITIONED SPACE MUST BE BELOW SPECIFIED MINIMUM FROST DEPTH AS MEASURED FROM EXTERIOR GRADE. MAINTAIN SPECIFIED T/FDN ELEVATIONS AND THICKEN FOOTING OR PLACE ON CLSM AS REQUIRED.

7. FOUNDATIONS MAY BE PLACED WITHOUT SIDE FORMS IF EXCAVATED WALLS STAND APPROXIMATELY VERTICAL

8. BACKFILL AGAINST WALLS:

   A. INTERIOR FACE OF SHALLOW FOUNDATIONS WALLS:
      i. CLSM OR IMPERVIOUS FILL (COMPACTED IN 8" LIFTS TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY AND WITHIN +/- 3% OPTIMUM MOISTURE CONTENT). OR
      ii. WELL GRADED GRANULAR MATERIAL (COMPACTED IN 8" LIFTS TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY AND WITHIN +/- 2% OPTIMUM MOISTURE CONTENT); AT THE BOTTOM OF THE GRANULAR BACKFILL PLACE A 4" DIAMETER PERFORATED FOUNDATION DRAIN PIPE. PROVIDE A POSITIVE SLOPE TO DAYLIGHT OR TO SUMP

   B. EXTERIOR FACE OF SHALLOW FOUNDATION WALLS:
      i. CLSM OR IMPERVIOUS FILL (COMPACTED IN 8" LIFTS TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY AND WITHIN +/- 3% OPTIMUM MOISTURE CONTENT). OR
      ii. WELL GRADED GRANULAR MATERIAL (COMPACTED IN 8" LIFTS TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY AND WITHIN +/- 2% OPTIMUM MOISTURE CONTENT); AT THE BOTTOM OF THE GRANULAR BACKFILL PLACE A 4" DIAMETER PERFORATED FOUNDATION DRAIN PIPE. PROVIDE A POSITIVE SLOPE TO DAYLIGHT OR TO SUMP

9. ENGINEERED FILL BENEATH FOOTINGS: MINIMUM COMPACTION 98% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN +/- 2% OPTIMUM MOISTURE CONTENT.

10. FILL BELOW FLOOR SLABS:

    A. SUBGRADE: PROOF ROLL TOP 24" OF SUBGRADE BELOW INTERIOR SLAB TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN +/- 3% OPTIMUM MOISTURE CONTENT PRIOR TO PLACEMENT OF BASE COURSE.

    B. BASE COURSE: 6" OF WELL GRADED GRANULAR MATERIAL BELOW FLOOR SLAB COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN +/- 2% OPTIMUM MOISTURE CONTENT COMPACTED FREE DRAINING GRANULAR FILL CAPILLARY BREAK.

11. FILL AT UTILITY TRENCHES BELOW FOOTINGS, EXCAVATED PRIOR TO FOOTING CONSTRUCTION.

    A. BACKFILL TRENCHES UNDER FOOTINGS AND WITHIN 18 INCHES OF BOTTOM OF FOOTINGS WITH CLSM TO THE BOTTOM OF FOOTING ELEVATION.

    B. BACKFILL TRENCHES EXCAVATED UNDER FOOTINGS AND MORE THAN 18 INCHES BELOW BOTTOM OF FOOTINGS WITH CLSM OR OTHER FILL MATERIAL APPROVED BY GEOTECHNICAL ENGINEER.

12. FILL AT UTILITY TRENCHES BELOW FOOTINGS, EXCAVATED AFTER FOOTING CONSTRUCTION.

    A. BACKFILL TRENCHES EXCAVATED UNDER EXISTING FOOTINGS WITH CLSM TO THE BOTTOM OF FOOTING ELEVATION.

13. SEAL UTILITY TRENCH AT THE EXTERIOR FOUNDATION WALL BY USING A COMPACTED IMPERVIOUS FILL OR CLSM TO CREATE A DAM TO PREVENT ENTRY OF WATER.

14. FINISHED GRADE SHALL SLOPE AWAY FROM THE PERIMETER FOUNDATION

15. EXCAVATIONS:

    A. EXCAVATIONS IN THE VICINITY OF EXISTING FOUNDATIONS SHALL BE PERMITTED WITHOUT ANY SPECIAL MEASURES AS LONG AS THE BOTTOM NEAR EDGE OF THE EXCAVATION IS ABOVE A LINE WITH SLOPE OF 2 HORIZONTAL TO 1 VERTICAL EXTENDING OUTWARD AND DOWNWARD FROM THE NEAREST BOTTOM CORNER OF THE EXISTING FOUNDATION.

    B. EXCAVATIONS IN THE VICINITY OF EXISTING FOUNDATIONS WITH THE BOTTOM NEAR EDGE OF THE EXCAVATION BELOW A LINE WITH SLOPE OF 2 HORIZONTAL TO 1 VERTICAL EXTENDING OUTWARD AND DOWNWARD FROM THE NEAREST BOTTOM CORNER OF THE EXISTING FOUNDATION SHALL BE MADE ONLY WITH THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE PROJECT GEOTECHNICAL ENGINEER. SUCH EXCAVATIONS MAY REQUIRE SPECIAL TEMPORARY EXCAVATION BRACING OR UNDERPINNING OF EXISTING FOUNDATIONS, WHICH IS THE RESPONSIBILITY OF THE CONTRACTOR AS PART OF ITS SELECTED MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES. CONTRACTOR SHALL SUBMIT TEMPORARY EXCAVATION BRACING AND UNDERPINNING DETAILS PRIOR TO EXCAVATION. CONTRACTOR SHALL PERFORM THESE EXCAVATIONS WITH CAUTION SO AS NOT TO UNDERMINE ANY EXISTING STRUCTURE FOUNDATIONS, AND EXCAVATIONS SHALL BE MADE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

16. UTILITY TRENCHES PARALLEL TO FOOTINGS AND WITH PIPES BELOW THE BOTTOM OF FOOTING ELEVATION MUST BE LOCATED SO THAT THE SLOPE BETWEEN THE PIPE INVERT ELEVATION AND THE NEAREST BOTTOM CORNER OF THE FOOTING IS A MINIMUM OF 2 HORIZONTAL TO 1 VERTICAL.

CONCRETE REINFORCING

1. MATERIALS

   A. DEFORMED BARS: ASTM A615, OR ASTM A706, GRADE 60.
      i. ASTM A706 DEFORMED BARS ARE REQUIRED FOR ALL WELDED REINFORCING BARS.

   B. WELDED WIRE REINFORCEMENT: ASTM A1064, FLAT SHEETS ONLY.

2. REINFORCING DEVELOPMENT AND LAP SPLICES (UNLESS OTHERWISE NOTED)

   A. WELDED WIRE REINFORCEMENT: LAP WELDED WIRE REINFORCEMENT MINIMUM 1 FULL SPACE PLUS 2".

   B. SEE REINFORCING BAR DEVELOPMENT TABLES FOR REQUIRED DEVELOPMENT AND LAP SPLICE LENGTHS.

3. DETAILING REQUIREMENTS

   A. AT SLAB AND WALL OPENING CORNERS AND REENTRANT CORNERS, PROVIDE (1) #5 BAR IN EACH FACE PARALLEL TO EACH EDGE EXTENDING A MINIMUM OF 2'-0" PAST EDGE OF OPENING. THIS STEEL MAY BE OMITTED IF TYPICAL WALL STEEL EXCEEDS THIS MINIMUM REQUIREMENT.

   B. REINFORCE ALL INTERIOR SLABS ON GROUND WITH 6 X 6 - W2.9 X W2.9 (42#) WELDED WIRE REINFORCEMENT. LOCATE WELDED WIRE REINFORCEMENT 2" CLEAR BELOW TOP OF SLAB.

   C. SEE PLAN FOR INTERIOR SLAB ON GROUND REINFORCEMENT. LOCATE REINFORCEMENT 2" CLEAR BELOW TOP OF SLAB.

   D. REINFORCE ALL SLABS SUPPORTED ON METAL DECK WITH 6 X 6 - W1.4 X W1.4 (21#) WELDED WIRE REINFORCEMENT. LOCATE WELDED WIRE REINFORCEMENT AT CENTER OF DEPTH OF CONCRETE THICKNESS ABOVE METAL DECK UNLESS NOTED OTHERWISE.

4. PERFORMANCE

   A. COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR PLACING AND SUPPORTING REINFORCEMENT.

   B. REINFORCING BARS SHALL HAVE CLEAR COVER AS INDICATED ON THE DRAWINGS. WHERE NOT INDICATED, PROVIDE MINIMUM CLEAR COVER PER ACI 301-20.

   C. REINFORCING BARS SHALL BE FREE OF DIRT AND FORM RELEASE AGENTS.

5. SUBMITTALS

   A. SHOP DRAWINGS FOR REINFORCING STEEL (COMPLY WITH ACI SP-66):

CAST-IN-PLACE CONCRETE

1. CONCRETE MIXTURES: REFER TO CONCRETE MIXTURE REQUIREMENTS TABLE ON S003 FOR CONCRETE MIX INFORMATION.

2. CONCRETE MATERIALS:

   A. CEMENTITIOUS MATERIALS
      i. PORTLAND CEMENT: ASTM C150, TYPE I.
      ii. BLENDED HYDRAULIC CEMENT: ASTM C595, TYPE IL, PORTLAND LIMESTONE CEMENT
      iii. FLY ASH: ASTM C618, CLASS F OR C. FLY ASH SHALL NOT EXCEED 25% OF TOTAL CEMENTITIOUS CONTENT BY MASS.
      iv. GROUND GRANULATED BLAST FURNACE SLAG: ASTM C989, GRADE 100 OR 120. COMBINATION SLAG AND FLY ASH SHALL NOT EXCEED 50% OF TOTAL CEMENTITIOUS CONTENT BY MASS.
      v. SILICA FUME: ASTM C1240 AMORPHOUS SILICA. SILICA FUME SHALL NOT EXCEED 10% OF TOTAL CEMENTITIOUS

   B. AGGREGATES:
      i. NORMAL WEIGHT AGGREGATES: ASTM C33, COARSE GRADED.

   C. ADMIXTURES: ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.
      i. WATER REDUCING ADMIXTURE: ASTM C494.
      ii. PLASTICIZING ADMIXTURE: ASTM C1017.
      iii. AIR ENTRAINING ADMIXTURE: ASTM C260.

   D. WATER: ASTM C94 AND POTABLE

3. DETAILING REQUIREMENTS

   A. FINISH OF CONCRETE HANDICAP RAMPS TO CONFORM WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).

   B. CONTRACTION JOINTS IN SLABS ON GROUND SHALL NOT EXCEED A LENGTH TO WIDTH RATIO OF 1.5:1. SEE PLAN FOR MAXIMUM JOINT SPACING.

   C. CONSTRUCTION JOINTS IN SLABS ON GROUND MAY BE LOCATED AT ANY CONTRACTION JOINT LOCATION. SEE DRAWINGS FOR TYPICAL DETAILS.

   D. PROVIDE 3/4" CHAMFER AT CORNERS OF EXPOSED CONCRETE.

   E. WHERE BRITTLE FLOOR FINISHES ARE TO BE APPLIED TO FLOOR SLABS, COORDINATE CONTRACTION JOINT LOCATIONS WITH FLOOR FINISH JOINT LOCATIONS AND ARCHITECT.

   F. CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED TO PREVENT ALUMINUM-CONCRETE REACTION OR ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.

   G. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR VAPOR BARRIER REQUIREMENTS. VAPOR BARRIER, WHERE REQUIRED, SHALL BE PLACED OVER GRANULAR BASE.

4. CONCRETE PLACEMENT

   A. DO NOT BACKFILL AGAINST RETAINING WALLS UNTIL CONCRETE STRENGTH HAS REACHED 0.75 f'c AND A MINIMUM OF 7 DAYS.

5. PERFORMANCE

   A. CONCRETE WORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 306.1-90 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING" AND ACI 306R-16 "GUIDE TO COLD WEATHER CONCRETING".

   B. CONCRETE WORK IN HOT WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 305.1-14 "SPECIFICATION FOR HOT WEATHER CONCRETING" AND ACI 305R-10 "GUIDE TO HOT WEATHER CONCRETING". THE AIR TEMPERATURE, RELATIVE HUMIDITY, CONCRETE TEMPERATURE, AND WIND SPEED SHALL BE ENTERED INTO NOMOGRAPH FIGURE 4.2 IN ACI 305R-10 TO DETERMINE IF PRECAUTIONS AGAINST PLASTIC SHRINKAGE ARE REQUIRED.

   C. TOLERANCES: CONFORM TO ACI 117-10

   D. IF CONCRETE ARRIVES AT THE POINT OF DELIVERY WITH A SLUMP BELOW THAT WHICH WILL RESULT IN THE SPECIFIED SLUMP AT THE POINT OF PLACEMENT AND IS UNSUITABLE FOR PLACING AT THAT SLUMP, THE SLUMP MAY BE ADJUSTED ONCE ONLY TO THE REQUIRED VALUE BY ADDING WATER UP TO THE AMOUNT ALLOWED IN THE ACCEPTED MIXTURE PROPORTIONS. ADDITION OF WATER SHALL BE IN ACCORDANCE WITH ASTM C94. DO NOT EXCEED THE SPECIFIED WATER-CEMENTITIOUS MATERIAL RATIO OR SLUMP IN THE APPROVED MIX DESIGN. DO NOT ADD WATER TO CONCRETE DELIVERED IN EQUIPMENT NOT ACCEPTABLE FOR MIXING. AFTER PLASTICIZING OR WATER REDUCING ADMIXTURES ARE ADDED TO THE CONCRETE AT THE SITE TO ACHIEVE FLOWABLE CONCRETE, DO NOT ADD WATER TO THE CONCRETE. MEASURE SLUMP (AND AIR CONTENT OF AIR ENTRAINED CONCRETE), AFTER SLUMP ADJUSTMENT, TO VERIFY COMPLIANCE WITH SPECIFIED REQUIREMENTS.

   E. SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF ADMIXTURES AND AFTER THE ADDITION OF ADMIXTURES.

   F. INTERIOR SLAB FINISHING AND CURING
      i. FINISH: MACHINE TROWEL FINISH FLOOR SLAB UNLESS NOTED OTHERWISE.
      ii. CURING: "CURE AND SEAL" LIQUID MEMBRANE FORMING CURING COMPOUND (ASTM C1315, TYPE 1, CLASS A, VOC COMPLIANT) OR MOISTURE-RETAINING COVER (ASTM C171) POLYETHYLENE FILM OR CURING PAPER CONSISTING OF TWO LAYERS OF FIBERED KRAFT PAPER LAMINATED WITH DOUBLE COATING OF ASPHALT.

6. SUBMITTALS:

   A. CONSTRUCTION JOINT LAYOUT

   B. CONCRETE MIX DESIGNS: CONCRETE MIX DESIGNS INCLUDING PRODUCT DATA FOR ALL CONSTITUENTS AND ADMIXTURES SHALL BE SUBMITTED FOR EACH TYPE OF CONCRETE TO THE STRUCTURAL ENGINEER FOR APPROVAL IN ACCORDANCE WITH ACI 301-16 FIELD TEST DATA OR TRIAL MIXTURES. SUBMITTAL DATA MUST INCLUDE FIELD TEST DATA FROM AT LEAST 10 TESTS OR A THREE POINT CURVE GENERATED USING TRIAL MIXTURES.

   C. PRODUCT DATA FOR CURING MATERIALS

   D. PRODUCT DATA FOR FIBER REINFORCEMENT

   E. FLOOR SLAB-ON-GRADE SHALL CONFORM TO THE FOLLOWING SURFACE PROFILE TOLERANCES PER ASTM E-1155 AND ACI 117-10 (Ff = FLOOR FLATNESS, FI = FLOOR LEVELNESS):
      i. SPECIFIED OVERALL VALUE Ff = 25, FI = 20
      ii. MINIMUM LOCAL VALUE Ff = 17, FI = 15

7. QUALITY ASSURANCE

   A. CONCRETE WORK AND TESTING, AS PERFORMED BY "QUALIFIED FIELD TESTING TECHNICIANS" AND "QUALIFIED LABORATORY TECHNICIANS", SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-16, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS ABOVE. REPORTS FROM TESTS REQUIRED BY SECTION 1.6 OF ACI 301-16 SHALL BE SUBMITTED TO STRUCTURAL ENGINEER, ARCHITECT, OWNER, CONTRACTOR, CONCRETE SUPPLIER, AND BUILDING OFFICIAL.

STRUCTURAL STEEL

1. MATERIALS (UNLESS NOTED OTHERWISE):

   A. W AND WT SHAPES: ASTM A992, Fy = 50 KSI

   B. M, MT, S, ST, AND HP SHAPES: ASTM A572, GRADE 50, Fy = 50 KSI

   C. C AND MC SHAPES (DEPTH ≥ 8 INCHES): ASTM A992, Fy = 50 KSI

   D. C AND MC SHAPES (DEPTH < 8 INCHES): ASTM A36, Fy = 36 KSI

   E. L SHAPES: ASTM A572, GRADE 50, Fy = 50 KSI

   F. PLATES AND BARS (THICKNESS ≤ 4 INCHES): ASTM A572, GRADE 50, Fy = 50 KSI

   G. PLATES AND BARS (THICKNESS > 4 INCHES): ASTM A36, Fy = 36 KSI

   H. HSS SHAPES: ASTM A500, GRADE C, Fy = 50 KSI

   I. WELDS: AWS E70XX, LOW HYDROGEN ELECTRODES.

2. ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS FOR "DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION

3. FABRICATOR QUALIFICATIONS: STRUCTURAL STEEL FABRICATOR SHALL PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM, AND SHALL BE DESIGNATED AS AN AISC-CERTIFIED PLANT, CATEGORY STD.

4. SUBMITTALS

   A. STRUCTURAL STEEL SHOP DRAWINGS

   B. MISC. METAL SHOP DRAWINGS (STAIRS, RAILINGS AND LADDERS INCLUDING ATTACHMENT TO THE PRIMARY STRUCTURE), INCLUDING ANALYSIS DATA, SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

   C. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS D1.1:2010)

5. PAINT AND PROTECTION:

   A. STEEL SURFACES UNLESS NOTED OTHERWISE: TO BE PAINTED: PREPARE SURFACES PER SSPC-SP3 "POWER TOOL CLEANING" AND PAINT WITH FABRICATOR'S STANDARD PRIME COAT.
      i. DO NOT PAINT PORTIONS OF MEMBERS TO BE ENCASED IN CONCRETE, TO RECEIVE FIREPROOFING, OR TO RECEIVE COMPOSITE SHEAR CONNECTORS.
      ii. IMMEDIATELY AFTER ERECTION, CLEAN EXPOSED AREAS WHERE PRIMER IS DAMAGED OR MISSING, PREPARE SURFACES BY SSPC-SP2 OR SSPC-SP3, AND PAINT WITH MATCHING SHOP PRIME COAT.

   B. MEMBERS EXPOSED TO WEATHER IN FINISHED STRUCTURE, LOOSE LINTELS, AND RELIEVING ANGLES:
      i. HOT DIP GALVANIZE PER ASTM A123 AFTER FABRICATION. COATING WEIGHT PER PARAGRAPH 5.1 OF ASTM A123 AND A153. FABRICATE ASSEMBLIES PER ASTM A143, A384, AND A385. AFTER ERECTION, REPAIR DAMAGED AREAS AND WELDS MADE AFTER GALVANIZING IN ACCORDANCE WITH ASTM A780 WITH ORGANIC ZINC RICH PAINT COMPLYING WITH DOD-P-21035 OR MIL-P-26915, MULTIPLE COATS TO DRY FILM THICKNESS OF 4 MILS. FILL EXPOSED VENT AND DRAIN HOLES, NOT INDICATED AS WEEP HOLES, BY PLUGGING WITH ZINC SOLDER AND FILING OFF SMOOTH.

   C. MEMBERS ENCASED IN CONCRETE: PROVIDE 3" MINIMUM CONCRETE COVER FOR ALL STEEL BELOW GRADE.

STEEL DECKING

1. THE DESIGN, FABRICATION, AND ERECTION OF ALL STEEL DECK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE SPECIFICATIONS OF THE STEEL DECK INSTITUTE.

2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW BY ENGINEER. FABRICATION SHALL NOT BEGIN PRIOR TO SHOP DRAWING APPROVAL BY ENGINEER.

3. MATERIALS:

   A. ROOF DECK: SEE PLAN AND METAL DECK SCHEDULE FOR SIZE, GAGE, MIN Fy, AND REQUIRED SUPPORT FASTENERS AND SIDELAP FASTENERS. PAINTED WITH STANDARD SHOP COAT.

   B. SELF DRILLING SCREWS (SDS): HEX WASHER HEAD SELF-DRILLING TAPPING SCREWS (ASTM C1513) MANUFACTURED FROM CARBON STEEL (ASTM A510, MIN GRADE 1018). ZINC PLATING SHALL MEET MINIMUM CORROSION RESISTANCE REQUIREMENTS OF ASTM F1941.

4. METAL DECK SHALL BE PROVIDED TO RUN CONTINUOUS OVER AT LEAST 3 SPANS EXCEPT AS NOTED OTHERWISE.

5. CONNECT METAL DECK TO STRUCTURAL MEMBERS, INCLUDING PERIMETER ANGLES.

6. MINIMUM METAL DECK END BEARING ON SUPPORTS = 1 1/2".

7. LAP ENDS OF ROOF DECK AND CONCRETE FORM DECK 4" MINIMUM. BUTT ENDS OF COMPOSITE FLOOR DECK.

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Schaefer Project Number: 26-0317

ABBREVIATIONS

NAME	DESCRIPTION
AFF =	ABOVE FINISHED FLOOR ELEVATION
ARCH =	ARCHITECT
B/ =	BOTTOM OF
BLDG =	BUILDING
BOT =	BOTTOM
BRG =	BEARING
CFS =	COLD-FORMED STEEL
CJ =	CONTRACTION JOINT
CJP =	COMPLETE JOINT PENETRATION
CL =	CENTER LINE
CLR =	CLEAR
CLSM =	CONTROLLED LOW STRENGTH MATERIAL
CMU =	CONCRETE MASONRY UNIT
COL =	COLUMN
CONC =	CONCRETE
CONT =	CONTINUOUS
DEG or ° =	DEGREE
DIA or ø =	DIAMETER
EA =	EACH
EF =	EACH FACE
EL =	ELEVATION
EMB =	EMBEDMENT
EOD =	EDGE OF DECK
EOS =	EDGE OF SLAB
EQ =	EQUAL
EXIST =	EXISTING
EXP =	EXPANSION
FDN =	FOUNDATION
FS =	FAR SIDE
FTG =	FOOTING
GA =	GAGE
GALV =	GALVANIZED
GT =	GIRDER TRUSS
HORIZ =	HORIZONTAL
JST BRG =	JOIST BEARING
Ld =	TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE
Ld-CMU =	TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN GROUTED CMU
Ldc =	COMPRESSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE
LDH =	LONG DIMENSION HORIZONTAL
Ldh =	HOOKED BAR TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE
LDV =	LONG DIMENSION VERTICAL
LLH =	LONG LEG HORIZONTAL
LLV =	LONG LEG VERTICAL
Ls =	LAP SPLICE LENGTH OF REINFORCING BAR IN CONCRETE
Ls-CMU =	LAP SPLICE LENGTH OF REINFORCING BAR IN GROUTED CMU
Lsc =	COMPRESSION LAP SPLICE LENGTH OF REINFORCING BAR IN CONCRETE
LSL =	LAMINATED STRAND LUMBER
LVL =	LAMINATED VENEER LUMBER
MCJ =	MASONRY CONTROL JOINT
MFR =	MANUFACTURER
NS =	NEAR SIDE
oc =	ON CENTER
OPNG =	OPENING
OPP =	OPPOSITE
P/T =	POST-TENSION
PAF =	POWER-ACTUATED FASTENER
PE =	PRE-ENGINEERED
PEMB =	PRE-ENGINEERED METAL BUILDING
PJP =	PARTIAL JOINT PENETRATION
PL =	PLATE
PSL =	PARALLEL STRAND LUMBER
PT =	PRESSURE TREATED
RD =	ROOF DRAIN
REINF =	REINFORCING
RTU =	ROOF TOP UNIT
SDS =	SELF DRILLING SCREWS
SIM =	SIMILAR
SL =	STEP LEDGE
SOMD =	SLAB ON METAL DECK
SPA =	SPACE or SPACES
SRD =	SECONDARY ROOF DRAIN
STIFF =	STIFFENER
STL =	STEEL
STW =	STEP TOP OF WALL
T/ =	TOP OF
UNO =	UNLESS NOTED OTHERWISE
VB =	VERTICAL BRACING
VERT =	VERTICAL
VIF =	VERIFY IN FIELD
w/ =	WITH
WP =	WORK POINT

SYMBOL LEGEND

SYMBOL	DESCRIPTION	REFERENCE
n	EXISTING COLUMN LINE DESIGNATION	
n	FACE OF BUILDING	
Hn	HEADER MARK	SHEET S102
n	FOOTING MARK	SHEET S101
SWn	SHEAR WALL MARK	SHEET S102
Kn	KEYNOTE MARK	SHEET S101
	STEP T/FTG	SHEET S101
	ELEVATION INDICATION	SHEET S101
Dn	DECK MARK	SHEET S102

0'-1" REFERENCE LINE

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10/30/2026

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ISSUANCES

1	08-28-26	DESIGN DEVELOPMENT
2	09-14-26	EARLY SITE PACKAGE
3	10-30-26	PERMIT/BID SET

GENERAL NOTES

COMM NO. 2026032.01

S001

COLD-FORMED METAL FRAMING

1. MATERIALS:
   A. STRUCTURAL FRAMING MEMBERS 54 MILS (16 GAGE) & HEAVIER (TYPICAL UNO): ASTM A1003 & C955, Fy MINIMUM = 50 KSI, G60 GALVANIZED COATING.
   B. STRUCTURAL FRAMING MEMBERS 43 MILS (18 GAGE) & LIGHTER (TYPICAL UNO): ASTM A1003 & C955, Fy MINIMUM = 33 KSI, G60 GALVANIZED COATING.
   C. COLD-FORMED STEEL STUDS AND TRACK FOR BRICK VENEER BACKUP (TYPICAL UNO): 43 MILS (18 GAGE) MINIMUM THICKNESS. G60 GALVANIZED COATING.
   D. TRACK & BRIDGING (TYPICAL UNO): ASTM A1003 & C955, Fy MINIMUM = 33 KSI, G60 GALVANIZED COATING.
   E. STRAP BRACING (TYPICAL UNO): Fy MINIMUM = 50 KSI. SIZE & GAGE AS INDICATED. ASTM A1003 & C955, G60 GALVANIZED COATING.
   F. SELF DRILLING SCREWS (SDS):
      i. HEX OR PHILLIPS WASHER HEAD SELF-DRILLING TAPPING SCREWS (ASTM C1513) MANUFACTURED FROM CARBON STEEL (ASTM A 510, MINIMUM GRADE 1018). ZINC PLATING SHALL MEET MINIMUM CORROSION RESISTANCE REQUIREMENTS OF ASTM F1941.
   G. WELDING ELECTRODES: E60XX
2. CONNECTOR HARDWARE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SUBSTITUTES MAY BE CONSIDERED, SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION:
   A. MOMENT CLIPS:
      i. ANCHORAGE TO CONCRETE: CLARK DIETRICH "MOMENT CLIP". SEE DETAILS FOR CLIP SIZE, FASTENER LAYOUT, AND ANCHORAGE REQUIREMENTS.
      ii. ANCHORAGE TO STEEL FRAMING: CLARK DIETRICH "EASYCLIP ANCHOR CLIP" D OR T SERIES. SEE DETAILS FOR CLIP SIZE AN FASTENER LAYOUT.
3. WORK SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   A. AMERICAN IRON AND STEEL INSTITUTE (AISI) "CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL FRAMING", AISI S202-20.
   B. AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE-SHEET STEEL.", AWS D.1.3:2018
4. SUBMITTALS:
   A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT
   B. SHOP DRAWINGS:
      i. CROSS-SECTIONS, PLANS AND/OR ELEVATIONS DEPICTING COMPONENT LAYOUT, SIZE AND LOCATION.
      ii. CONNECTION DETAILS SHOWING FASTENER TYPES AND LOCATIONS, WELD SIZE, LENGTHS AND LOCATIONS INCLUDING ATTACHMENTS TO ADJOINING WORK.
      iii. SIZE AND LOCATION OF ALL BRIDGING AND BRACING.
5. CUT ALL FRAMING COMPONENTS SO THEY FIT SQUARELY TOGETHER. STUDS MUST BEAR TIGHT AGAINST TRACK WEB. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED. BRACE WALL COMPONENTS AS REQUIRED DURING ERECTION TO PREVENT RACKING AND DISTORTION.
6. ALL FRAMING SHALL BE THE COMPONENTS SPECIFIED ON THE STRUCTURAL DRAWINGS AS MANUFACTURED IN ACCORDANCE WITH THE INDICATED STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) SIZE, STYLE, AND MATERIAL THICKNESS. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, ALL FRAMING MEMBERS SHALL BE S-SECTIONS WITH 1-5/8" FLANGE WIDTH, AND ALL TRACK SHALL HAVE 1-1/4" FLANGE WIDTH.
7. PRIOR TO THE START OF INSTALLATION OF COLD-FORMED STEEL FRAMING SYSTEMS, MEET AT THE PROJECT SITE WITH THE INSTALLERS OF OTHER WORK INCLUDING DOOR AND WINDOW FRAMES, MECHANICAL, STRUCTURAL AND ELECTRICAL WORK. REVIEW AREAS OF POTENTIAL INTERFERENCE AND CONFLICTS AND COORDINATE LAYOUT AND SUPPORT PROVISIONS FOR INTERACTING WORK.
8. FASTEN EACH STUD AT EACH FLOOR LEVEL, HORIZONTAL GIRT AND ROOF LEVEL, UNLESS NOTED OTHERWISE ON DRAWINGS. SEE DRAWINGS FOR TYPE OF CLIP TO INSTALL.
9. ALL WELDED CONNECTIONS SHALL BE MADE BY WELDERS CERTIFIED FOR WELDING MEMBERS OF GAGE BEING USED PER (AWS) D.1.3:2018.
10. ERECTION TOLERANCES. FABRICATE AND ERECT ASSEMBLIES LEVEL, PLUMB, AND TRUE TO LINE TO A MAXIMUM ALLOWABLE VARIATION OF 1/8 INCH IN 10 FEET AND AS FOLLOWS:
    A. SPACING: SPACE INDIVIDUAL FRAMING MEMBERS NO MORE THAN PLUS OR MINUS 1/8 INCH FROM PLAN LOCATION. CUMULATIVE ERROR SHALL NOT EXCEED MINIMUM FASTENING REQUIREMENTS OF SHEATHING OR OTHER FINISHING MATERIALS.
    B. SQUARENESS: FABRICATE EACH COLD-FORMED STEEL FRAMING ASSEMBLY TO A MAXIMUM OUT-OF-SQUARE TOLERANCE OF 1/8 INCH.
11. INSTALL LOAD-BEARING SHIMS OR GROUT BETWEEN THE UNDERSIDE OF LOAD-BEARING WALL BOTTOM TRACK AND THE TOP OF FOUNDATION WALL OR SLAB AT LOCATIONS WITH A GAP LARGER THAN 1/4 INCH TO ENSURE A UNIFORM BEARING SURFACE ON SUPPORTING CONCRETE OR MASONRY CONSTRUCTION.

COLD-FORMED METAL TRUSSES

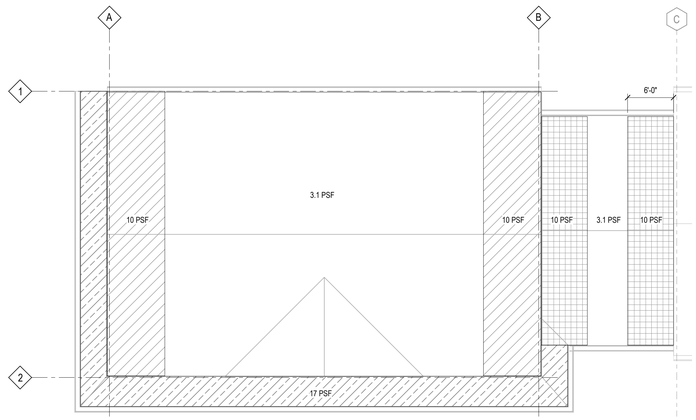
1. MATERIALS:
   A. TRUSS FRAMING MEMBERS: ASTM A1003 & C955, Fy MINIMUM, AS REQUIRED FOR STRUCTURAL PERFORMANCE, G60 GALVANIZED COATING. TRUSS CHORD MEMBERS SHALL BE 43 MIL (18 GAGE) MINIMUM.
2. ENGAGE A QUALIFIED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE THAT THE PROJECT IS LOCATED IN, TO SERVE AS THE SPECIALTY ENGINEER FOR THE DESIGN OF COLD-FORMED STEEL TRUSSES.
3. DESIGN LOADS (SEE DESIGN LOAD SECTION OF GENERAL NOTES):
   A. SPECIFIED LOADS ARE UNFACTORED AND SHALL BE FACTORED ACCORDING TO THE ALLOWABLE STRESS DESIGN LOAD COMBINATIONS IN SECTION 1605 OF THE IBC.
   B. ROOF TRUSSES SHALL BE DESIGNED FOR A MINIMUM NET UPLIFT OF 3.1 PSF (ALLOWABLE STRESS DESIGN) APPLIED TO THE TOP CHORD AS AN ADDITIONAL SEPARATE LOAD COMBINATION.
   C. SNOW LOADS SHALL BE CONSIDERED UNBALANCED PER ASCE 7, SECTION 1605
4. PERFORMANCE REQUIREMENTS. DESIGN TRUSSES TO WITHSTAND SPECIFIED DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING:
   A. ROOF TRUSSES: VERTICAL DEFLECTION OF L/360 OF THE SPAN FOR ROOF LIVE, SNOW, OR WIND LOADS, AND L/240 OF THE SPAN FOR TOTAL LOADS.
   B. HORIZONTAL DEFLECTIONS: LIMIT HORIZONTAL DEFLECTION AT SUPPORTS TO 3/4".
5. DESIGN SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
   A. AMERICAN IRON AND STEEL INSTITUTE (A.I.S.I.) S240-20 (2020) "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING — FLOOR AND ROOF SYSTEM DESIGN"
   B. AMERICAN IRON AND STEEL INSTITUTE (A.I.S.I.) S240-20 (2020) "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING — LATERAL DESIGN"
   C. AMERICAN IRON AND STEEL INSTITUTE (A.I.S.I.) S240-20 (2020) "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING — TRUSS DESIGN"
6. TEMPORARY BRACING: TEMPORARY TRUSS BRACING SHALL BE DESIGNED BY THE SPECIALTY ENGINEER. TRUSSES UNDER 60 FEET LONG THAT ARE SPACED AT 4'-0" oc OR LESS MAY HAVE TEMPORARY BRACING IN ACCORDANCE WITH "FIELD INSTALLATION GUIDE FOR COLD-FORMED STEEL ROOF TRUSSES" BY THE COLD-FORMED STEEL ENGINEERS INSTITUTE UNLESS MORE STRINGENT BRACING IS REQUIRED BY THE TRUSS MANUFACTURER.
   A. BRACING SHALL REMAIN IN PLACE TO SERVE AS PART OF THE PERMANENT BRACING SYSTEM DESIGNED BY THE SPECIALTY ENGINEER.
   B. TEMPORARY BRACING IN THE PLANE OF THE TOP CHORD MAY ONLY BE REMOVED WHEN THE TOP CHORD IS LATERALLY BRACED BY THE METAL ROOF DECK.
7. PERMANENT BRACING: PERMANENT TRUSS BRACING SHALL BE DESIGNED BY THE SPECIALTY ENGINEER AND IN ACCORDANCE WITH "TECHNICAL NOTE 551e, DESIGN GUIDE - PERMANENT BRACING OF COLD-FORMED STEEL TRUSSES" BY THE COLD-FORMED STEEL ENGINEERS INSTITUTE.
8. ALL BRACING (TEMPORARY OR PERMANENT) SHALL BE SUPPLIED BY THE TRUSS MANUFACTURER.
9. WEB MEMBERS OF ADJACENT TRUSSES SHALL ALIGN WHEREVER POSSIBLE TO ACCOMMODATE WEB BRACING.
10. ATTACH TRUSSES TO SUPPORTING FRAMING USING MANUFACTURE'S STANDARD CLIPS CAPABLE OF RESISTING THE SPECIFIED LOADING, INCLUDING WIND UPLIFT LOADS.
11. SUBMITTALS:
    A. PRODUCT DATA FOR EACH TYPE OF PRODUCT.
    B. DELEGATED DESIGN SUBMITTAL, SIGNED AND SEALED BY THE SPECIALTY ENGINEER RESPONSIBLE FOR THEIR PREPARATION. INCLUDING COMPREHENSIVE ANALYSIS DATA AND SHOP DRAWINGS INCLUDING THE FOLLOWING:
       i. ANALYSIS DATA SHOWING SPECIFIED DESIGN LOADS AND PERMANENT BRACING DESIGN ASSUMPTIONS. INCLUDE ALL IMPOSED FORCES ON THE PRIMARY STRUCTURE.
       ii. ERECTION PLAN SHOWING LAYOUT, SPACING, AND SIZES OF ALL COLD-FORMED TRUSSES.
       iii. TRUSS ELEVATIONS SHOWING SIZE, THICKNESS AND TYPES OF ALL TRUSS FRAMING ELEMENTS AND CLEARLY INDICATING PERMANENT BRACING REQUIREMENTS FOR WEB COMPRESSION AND BOTTOM CHORD MEMBERS.
       iv. FABRICATION, FASTENING, AND ANCHORAGE DETAILS.
       v. TEMPORARY/ERECTION BRACING REQUIREMENTS AND HANDLING AND ERECTION INSTRUCTIONS.
12. TOLERANCES: FABRICATE AND INSTALL STEEL TRUSSES LEVEL AND PLUMB, AND TRUE TO LINE TO A MAXIMUM ALLOWABLE VARIATION OF 1/8 INCH IN 10 FEET AND AS FOLLOWS:
    A. SPACING: SPACE INDIVIDUAL TRUSS MEMBERS NO MORE THAN PLUS OR MINUS 1/8 INCH FROM PLAN LOCATION.
    B. SQUARENESS: FABRICATE EACH COLD FORMED STEEL TRUSS TO A MAXIMUM OUT-OF-SQUARE TOLERANCE OF 1/8 INCH.

POST INSTALLED ANCHORS

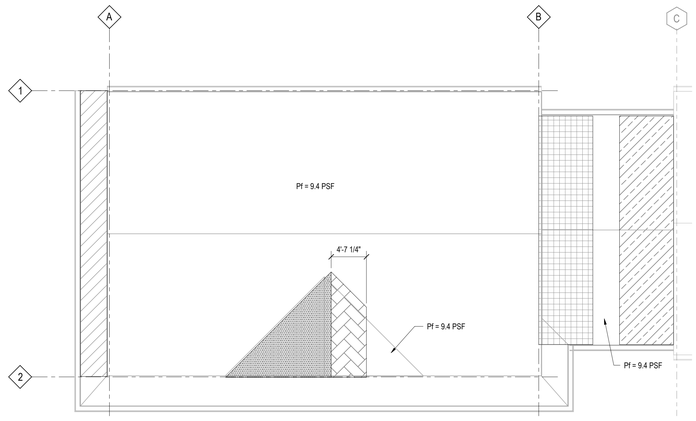
1. INSTALLATION: INSTALL ANCHORS PER EVALUATION REPORT AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
2. CONNECTIONS TO EXISTING REINFORCED CONCRETE OR MASONRY: PRIOR TO DRILLING, VERIFY LOCATIONS OF EXISTING REINFORCING BARS USING A REBAR DETECTOR. NOTIFY ENGINEER PRIOR TO INSTALLATION IF ANCHOR LOCATIONS CONFLICT WITH EXISTING REINFORCING BARS. DO NOT DRILL THROUGH REINFORCING BARS.
3. TESTING AND INSPECTION: REFER TO EVALUATION REPORTS FOR ADDITIONAL TESTING AND INSPECTION REQUIREMENTS.
4. SUBSTITUTIONS: SUBSTITUTIONS COMPLYING WITH SPECIFIED ACCEPTANCE CRITERIA MAY BE CONSIDERED. SUBMIT EVALUATION REPORT DEMONSTRATING COMPLIANCE WITH GOVERNING CODE AND SPECIFIED ACCEPTANCE CRITERIA PRIOR TO INSTALLATION.
5. ADHESIVE ANCHORS:
   A. ANCHOR RODS: ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE. SIZE AND EMBEDMENT AS INDICATED ON DRAWINGS.
   B. ADHESIVE IN CONCRETE: SIMPSON STRONG-TIE "SET-3G" EPOXY (EVALUATION REPORT: ICC ESR-4057 SIMPSON STRONG-TIE "SET-XP" EPOXY (EVALUATION REPORT: ICC ESR-2508) OR SIMPSON STRONG-TIE "AT-XP" (EVALUATION REPORT: IAPMO UES ER-263). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC308 AND ACI 355.4 FOR USE IN CRACKED CONCRETE MAY BE CONSIDERED.
   C. VERIFY THAT THE SHELF LIFE OF THE ADHESIVE HAS NOT BEEN EXCEEDED ON THE DATE OF INSTALLATION.
6. EXPANSION ANCHORS:
   A. ANCHORAGE TO CONCRETE: SIMPSON STRONG-TIE "STRONG-BOLT 2" CARBON STEEL, ZINC PLATED (EVALUATION REPORT: ICC-ES ESR-3037). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC193 AND ACI 355.2 FOR USE IN CRACKED CONCRETE MAY BE CONSIDERED.

POWER-ACTUATED FASTENERS (PAF)

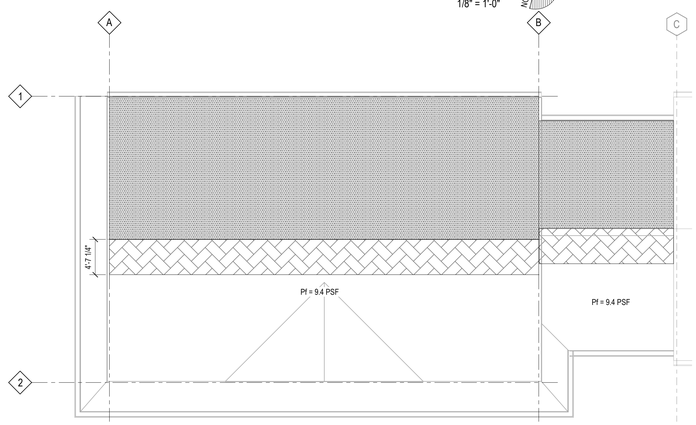
1. INSTALLATION: INSTALL FASTENERS PER EVALUATION REPORT AND MANUFACTURER'S PRINTED INSTRUCTIONS (MPII)
2. SUBSTITUTIONS: SUBSTITUTIONS COMPLYING WITH ICC-ES ACCEPTANCE CRITERIA AC 70, INCLUDING ANNEX A FOR SEISMIC LOADING MAY BE CONSIDERED. SUBMIT EVALUATION REPORT DEMONSTRATING GREATER OR EQUAL CAPACITY, AND COMPLIANCE WITH GOVERNING CODE AND SPECIFIED ACCEPTANCE CRITERIA PRIOR TO INSTALLATION.
3. FASTENING COLD FORMED METAL FRAMING TRACKS AND CHANNELS:
   A. ALL POWER-ACTUATED FASTENERS TO BE HILTI TYPE X-U NAIL INTO CONCRETE AND STEEL (0.157"ø). FASTENER LENGTH SHALL BE AS REQUIRED FOR MINIMUM SHANK PENETRATION THROUGH STEEL, OR AS REQUIRED FOR 1 1/4" EMBEDMENT INTO CONCRETE UNLESS NOTED OTHERWISE.
4. FASTENING METAL DECK TO STRUCTURAL STEEL: SEE "METAL DECK" GENERAL STRUCTURAL NOTES.



MINIMUM DESIGN CFS TRUSS UPLIFT PLAN (MWFRS)
1/8" = 1'-0"



ROOF UNBALANCED AND DRIFTED SNOW LOADING PLAN - WIND PARALLEL TO RIDGE
1/8" = 1'-0"



ROOF UNBALANCED AND DRIFTED SNOW LOADING PLAN - WIND NORMAL TO RIDGE
1/8" = 1'-0"

ROOF

SURFACE PRESSURE (psf)								
AREA	10 sf	20 sf	50 sf	100 sf	200 sf	350 sf	500 sf	1000 sf
NEGATIVE ZONE 1	-39.9	-37.3	-33.8	-31.2	-28.5	-26.4	-25.0	-25.0
NEGATIVE ZONE 1'	-22.9	-22.9	-22.9	-22.9	-19.7	-17.1	-16.0	-16.0
NEGATIVE ZONE 2	-52.6	-49.2	-44.8	-41.4	-38.0	-35.3	-33.5	-33.5
NEGATIVE ZONE 3	-71.7	-65.0	-56.0	-49.2	-42.5	-37.0	-33.5	-33.5
POSITIVE ALL ZONES	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
OVERHANG ZONE 1&1'	-36.1	-35.4	-34.6	-34.0	-28.5	-24.0	-21.2	-21.2
OVERHANG ZONE 2	-48.8	-44.3	-38.3	-33.8	-29.3	-25.7	-23.3	-23.3
OVERHANG ZONE 3	-67.9	-60.0	-49.6	-41.7	-33.8	-27.4	-23.3	-23.3

WALL

SURFACE PRESSURE (psf)				
AREA	10 sf	100 sf	200 sf	500 sf
NEGATIVE ZONE 4	-24.8	-21.5	-20.4	-19.1
NEGATIVE ZONE 5	-30.6	-23.8	-21.8	-19.1
POSITIVE ZONE 4 & 5	22.9	19.5	18.5	17.2

WIND COMPONENT & CLADDING PRESSURE PLAN & TABLE NOTES:
1. SEE GENERAL NOTES FOR WIND LOAD DESIGN CRITERIA
2. POSITIVE LOADS ACT IN A PERPENDICULAR DIRECTION TOWARDS THE SURFACE. NEGATIVE LOADS ACT IN A PERPENDICULAR DIRECTION AWAY FROM THE SURFACE.
3. TABLE VALUES ARE ULTIMATE, UNFACTORED WIND LOADS FOR USE IN ALL PARTS OF THE STRUCTURE.
4. LINEAR INTERPOLATION IS PERMITTED FOR TRIBUTARY AREA VALUES BETWEEN VALUES GIVEN.
5. PARAPETS SHALL BE DETERMINED FROM FIGURE 1 & OVERHANGS FROM FIGURE 2.

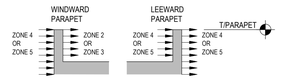


FIGURE 1: PARAPET

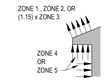
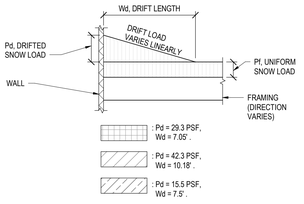
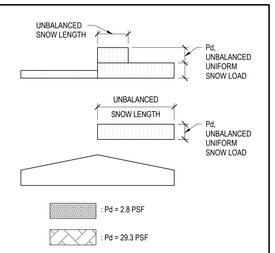


FIGURE 2: OVERHANG

UNBALANCED AND DRIFTED SNOW LOADING LEGEND:





UNBALANCED SNOW LOADING
1. REFER TO PLAN DIAGRAMS FOR UNBALANCED LOADING CONDITIONS
2. UNBALANCED LOADING ALSO APPLIES MIRRORED OVER THE RIDGE OF THE GABLE ROOF.

ROOF SNOW DRIFT PLAN NOTES:

1. DESIGN ROOF TRUSSES FOR ROOF DEAD, LIVE, & SNOW LOADS IN ACCORDANCE w/ THE GENERAL STRUCTURAL NOTES & THE LOAD COMBINATIONS SET FORTH IN THE REFERENCED BUILDING CODE.
2. DESIGN ROOF TRUSSES FOR TWO SNOW LOAD CASES:
   A. UNIFORM ROOF SNOW LOAD Pm OF 20 PSF APPLIED OVER THE ENTIRE ROOF (CONSIDER UNBALANCED SNOW CASE WHERE APPLICABLE PER THE CODE).
   B. UNIFORM ROOF SNOW LOAD Pf OF 9.4 PSF APPLIED OVER THE ENTIRE ROOF, w/ SNOW DRIFT LOADS Pd AS NOTED APPLIED IN ADDITION TO THE BASE LOAD. DRIFTS VARY LINEARLY FROM ZERO AT THE INNER EDGE TO THE MAXIMUM LOAD INDICATED AT THE EXTERIOR WALL.
3. WHERE DRIFTED SNOW REGIONS OVERLAP ENVELOPE THE TOTAL SNOW LOAD APPLIED FROM OVERLAP BUT NEED NOT BE SUPERIMPOSED.

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138 E. MAIN STREET, BRADFORD, OH 45308
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School District ADDRESS

ISSUANCES

1	08-25-26	DESIGN DEVELOPMENT
2	09-14-26	EARLY SITE PACKAGE
3	10-30-26	PERMIT/BID SET

GENERAL NOTES AND LOADING DIAGRAMS

COMM NO. 2026032.01

S002

0'-1" REFERENCE LINE

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS ARE REQUIRED BY SECTION 1704 OF THE REFERENCED BUILDING CODE. THE INTENT OF SPECIAL INSPECTIONS IS TO VERIFY THE COMPLIANCE OF MATERIALS, INSTALLATION, FABRICATION, ERECTION AND/OR PLACEMENT OF COMPONENTS WITH THE COMPLETED SET OF CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. IT IS THE RESPONSIBILITY OF ALL PARTIES INVOLVED TO BECOME FAMILIAR WITH THE SPECIAL INSPECTION REQUIREMENTS SET FORTH IN CHAPTER 17 OF THE REFERENCED BUILDING CODE. SPECIAL INSPECTIONS SHALL BE PROVIDED BY THE OWNER OR THE OWNER'S AGENT AND SHALL NOT BE CONSIDERED IN THE SCOPE OF WORK OF THE CONTRACTOR.

   A. THE FOLLOWING SCHEDULE OF SPECIAL INSPECTIONS FOR STRUCTURAL WORK HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 106.1 AND 1704 OF THE REFERENCED BUILDING CODE. SEE OTHERS FOR SPECIAL INSPECTION REQUIREMENTS FOR NON-STRUCTURAL WORK. THE SPECIAL INSPECTOR(S) SHALL COORDINATE WITH THE OWNER, CONTRACTORS, AND DESIGN PROFESSIONALS AND SCHEDULE ALL INSPECTIONS ACCORDINGLY.

SCHEDULE OF SPECIAL INSPECTION SERVICES - 1705.2.2 COLD FORMED STEEL DECK

Item	Sub Item / Scope	Extent			Agency Qualifications	Comments
		Observe	Perform	N/A		
1. Inspection Tasks Prior to Deck Placement	a. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material, properties, and base metal thickness		X		Testing Agency	
	b. Document acceptance or rejection of deck and deck accessories		X			
2. Inspection Tasks After Deck Placement	a. Verify compliance of deck and all deck accessories installation with construction documents		X		Testing Agency	
	b. Verify deck materials are represented by the mill certifications that comply with the construction documents		X			
	c. Document acceptance or rejection of installation of deck and deck accessories		X			
3. Inspection Prior to Welding	a. Welding procedure specifications (WPS) available			X	Testing Agency AWS Certified Welding Inspector	
	b. Manufacturer certifications for welding consumables available			X		
	c. Material Identification (type/grade)			X		
	d. Check Welding Equipment			X		
4. Inspection Tasks During Welding	a. Use of qualified welders.			X	Testing Agency AWS Certified Welding Inspector	
	b. Control and handling of welding consumables.			X		
	c. Environmental conditions			X		
	d. WPS followed			X		
5. Inspection Tasks After Welding	a. Verify size and location of welds, including support, sidelap, and perimeter welds.		X		Testing Agency AWS Certified Welding Inspector	
	b. Weld meets visual inspection criteria.		X			
	c. Verify repair activities.		X			
	d. Document acceptance or rejection of welds		X			
6. Inspection Tasks Prior to Mechanical Fastening	a. Manufacturer installation instructions are available for mechanical fasteners.	X			Testing Agency	
	b. Proper tools are available for fastener installation	X				
	c. Proper storage for mechanical fasteners	X				
7. Inspection Tasks During Mechanical Fastening	a. Fasteners are positioned as required	X			Testing Agency	
	b. Fasteners are installed in accordance with manufacturer's instructions	X				
8. Inspection Tasks After Mechanical Fastening	a. Check spacing, type, and installation of support fasteners		X		Testing Agency	
	b. Check spacing, type, and installation of sidelap fasteners		X			
	c. Check spacing, type, and installation of perimeter fasteners		X			
	d. Verify repair activities		X			
	e. Document acceptance or rejection of mechanical fasteners		X			

SCHEDULE OF SPECIAL INSPECTION SERVICES - COLD FORMED CONSTRUCTION

Item	Sub Item / Scope	Extent			Agency Qualifications	Comments
		Cont.	Periodic	N/A		
Lateral Load Resisting System Elements	**Strap Bracing:** Inspect straps and all connections at walls with CFS strap bracing		X		Testing Agency	
	Shearwalls: Inspect wood structural panel grade and thickness, fastener size and spacing, panel edge blocking, shearwall end studs, and holdowns		X		Testing Agency	
	Chords/Collectors: Inspect collector/chord straps and ties.		X		Testing Agency	
Framing	**Members:** Inspect member size, spacing, and configuration		X		Testing Agency	
	Connections: Inspect connection details for conformance to construction documents.		X		Testing Agency	
Mechanical Fastening	Inspect fastener type, size, and installation procedures. Verify that fasteners are installed tight.		X		Testing Agency	
Material Properties and Thickness	Review conformance with construction documents		X		Testing Agency	
Material Verification of weld filler materials	Review identification markings conform to AWS specification indicated in construction documents.		X		Testing Agency AWS - Certified Welding Inspector	
	Review manufacturer's certificate of compliance for all specified weld filler materials.		X		Testing Agency AWS - Certified Welding Inspector	
Welding	Inspection of welds. Reference AWS D1.3, Chapter 6		X		Testing Agency AWS - Certified Welding Inspector	

SCHEDULE OF SPECIAL INSPECTION SERVICES - 1705.3 CONCRETE CONSTRUCTION

Item	Sub Item / Scope	Extent			Agency Qualifications	Comments
		Cont.	Periodic	N/A		
1. Reinforcing steel	**a. Mild Reinforcing Steel:** Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters. Verify welded wire fabric is supported per construction documents. Reference ACI 318: 20, 25.2, 25.3, 26.6-1-26.6-3, and IBC 1908.4.		X		Testing Agency	
	b. Prestress Steel: Inspect size, spacing, cover, and position of prestressing tendons.		X		Testing Agency	
2. Welding of Reinforcing Steel	a. Verify weldability of reinforcing bars other than ASTM A706. Reference ACI 318: 26.6.4 and AWS D1.4		X		Testing Agency	
	b. Inspect single pass fillet welds, maximum 5/16"		X		Testing Agency AWS - Certified Welding Inspector	
	c. Inspect all other welds	X			Testing Agency AWS - Certified Welding Inspector	
3. Cast in Place Anchor Rods	Inspect size, position and embedment of cast in place bolts and anchor rods. Inspect concrete placement and consolidation around anchors. Reference ACI 318: 17.8.2		X		Testing Agency	
4. Post Installed Anchors (Anchors installed in Hardened Concrete)	a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. Inspect type and size of anchor, concrete type and compressive strength, hole cleaning procedures, anchor embedment, anchor spacing and edge distances, and tightening torque (where applicable). Reference ACI 318: 17.8.2.4	X			Testing Agency	Reference evaluation report (identified in project general notes) for additional inspection scope required by manufacturer.
	b. Mechanical anchors and adhesive anchors not defined in 4.a. Inspect type and size of anchor, concrete type and compressive strength, hole cleaning procedures, anchor embedment, anchor spacing and edge distances, and tightening torque (where applicable). Reference ACI 318: 17.8.2		X		Testing Agency	
5. Mix Design	Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.		X		Testing Agency	
6. Sampling and Testing of Concrete	At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests as required by construction documents, and determine the temperature of concrete. Reference ASTM C 172, ASTM C31, ACI 318, 26.4.3, 26.4.4	X			Testing Agency	
7. Concrete and Shotcrete Placement	Inspect concrete and shotcrete placement for proper application techniques. Reference ACI 318: 26.5 and IBC 1908.6, 1908.7, and 1908.8. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.	X			Testing Agency	
8. Curing and Protection	Inspect for maintenance of specified curing temperature and techniques. Inspect cold weather and hot weather protection procedures as applicable. Reference ACI 318: 26.5.3-26.5.5		X		Testing Agency	
13. Verification of In-Situ Concrete Strength	Verify concrete strength prior to the removal of shores and forms from beams and structural slabs and prior to the stressing of tendons in post-tensioned concrete. Reference ACI 318: 26.10.2 & 26.11.11.2		X		Testing Agency	
14. Formwork Geometry	Inspect formwork for shape, location and dimensions of the concrete member being formed. Reference ACI 318: 26.11		X		Testing Agency	

SCHEDULE OF SPECIAL INSPECTION SERVICES - 1705.6 SOILS

Item	Sub Item / Scope	Extent			Agency Qualifications	Comments
		Cont.	Periodic	N/A		
1. Bearing Materials	Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		X		Testing Agency Under supervision of Licensed Geotechnical Engineer	
2. Excavations	Verify excavations are extended to proper depth and have reached proper material		X		Testing Agency Under supervision of Licensed Geotechnical Engineer	
3. Fill Classification	Perform classification and testing of compacted fill materials		X		Testing Agency Under supervision of Licensed Geotechnical Engineer	
4. Placement and Fill Compaction	During fill placement, verify use of proper materials and procedure in accordance with the provisions of the approved geotechnical report. Verify densities and lift thicknesses during placement and compaction of compacted fill	X			Testing Agency Under supervision of Licensed Geotechnical Engineer	
5. Subgrade	Prior to placement of compacted fill, inspect subgrade and verify that the site has been prepared properly		X		Testing Agency Under supervision of Licensed Geotechnical Engineer	

SCHEDULE OF TENSION & COMPRESSION DEVELOPMENT AND LAP SPLICE LENGTHS

FOOTINGS (f'c = 3000PSI)

BAR SIZE	Ld		Ls		Ldh
	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	
	(in)	(in)	(in)	(in)	(in)
#3	17	22	22	28	8
#4	22	29	29	38	12
#5	28	36	36	47	16
#6	33	43	43	56	21
#7	48	63	63	81	27
#8	55	72	72	93	32
#9	62	81	81	105	39
#10	70	91	91	118	46
#11	78	101	101	131	54
#14	93	121	121	157	71

LAP AND DEVELOPMENT TABLE CRITERIA:
A. GRADE 60 UNCOATED REINFORCING STEEL
  i. FOR EPOXY COATED: MULTIPLY Ld, Ls BY 1.5; Ldh BY 1.2
B. NORMAL WEIGHT CONCRETE
  i. FOR LIGHTWEIGHT CONCRETE: MULTIPLY Ld, Ls, Ldh BY 1.33
C. CLEAR COVER GREATER THAN db
D. MIN 2"db CLEAR SPACING BETWEEN BARS

FOR BARS THAT DO NOT MEET THE CLEAR COVER OR CLEAR SPACING INDICATED:
#6 AND SMALLER: Ld = 66 BAR DIAMETERS; Ls = 86 BAR DIAMETERS
#7 AND LARGER: Ld = 83 BAR DIAMETERS; Ls = 107 BAR DIAMETERS
FOR TOP BARS MULTIPLY BY 1.3
MINIMUM Ld AND Ls = 12"

FOUNDATION WALLS (f'c = 4500PSI)

BAR SIZE	Ld		Ls		Ldh
	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	
	(in)	(in)	(in)	(in)	(in)
#3	12	12	16	16	7
#4	12	14	16	19	11
#5	14	18	18	23	15
#6	17	21	21	28	20
#7	24	31	31	40	24
#8	27	35	35	46	30
#9	34	44	44	57	36
#10	42	54	54	70	42
#11	50	65	65	84	50
#14	68	88	88	115	65

LAP AND DEVELOPMENT TABLE CRITERIA:
A. GRADE 60 UNCOATED REINFORCING STEEL
  i. FOR EPOXY COATED: MULTIPLY Ld, Ls BY 1.5; Ldh BY 1.2
B. NORMAL WEIGHT CONCRETE
  i. FOR LIGHTWEIGHT CONCRETE: MULTIPLY Ld, Ls, Ldh BY 1.33
C. 2" MIN CLEAR COVER
D. 4" MIN CLEAR SPACING BETWEEN BARS

FOR BARS THAT DO NOT MEET THE CLEAR COVER OR CLEAR SPACING INDICATED:
#6 AND SMALLER: Ld = 54 BAR DIAMETERS; Ls = 70 BAR DIAMETERS
#7 AND LARGER: Ld = 68 BAR DIAMETERS; Ls = 88 BAR DIAMETERS
FOR TOP BARS MULTIPLY BY 1.3
MINIMUM Ld AND Ls = 12"

LAP AND DEVELOPMENT TABLE NOTES & DEFINITIONS:
A. TOP BARS = HORIZ BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS
B. db = BAR DIAMETER
C. s = CENTER-TO-CENTER BAR SPACING
D. Ath = TOTAL AREA OF TIES OR STIRRUPS CONFINING HOOKED BARS
E. Ahs = TOTAL AREA OF HOOKED BARS BEING DEVELOPED
F. WHERE BARS OF DIFFERENT SIZES ARE SPLICED, Ls FOR THE LARGER BAR SHALL BE USED
G. ALL TENSION SPLICES SHALL BE CLASS B, UNLESS NOTED OTHERWISE
H. Ldh VALUES FOR #11 BARS AND SMALLER MAY BE REDUCED AS FOLLOWS (PER ACI 318-19)
  i. MULTIPLY BY 0.625 FOR (1) OR (2)
    (1) Ath ≥ 0.40Ahs
    (2) s ≥ 6db
  ii. MULTIPLY BY 0.80 FOR (3) OR (4)
    (3) HOOK TERMINATES IN COLUMN CORE & SIDE COVER NORMAL TO PLANE OF HOOK ≥ 2.5"
    (4) SIDE COVER NORMAL TO PLANE OF HOOK ≥ 6db
  iii. Ldh SHALL NOT BE LESS THAN THE LARGER OF 8db OR 6" WITH REDUCTIONS APPLIED

CONCRETE MIXTURE REQUIREMENTS

CONCRETE CLASS	DESCRIPTION	EXPOSURE CLASS F	S	W	C	MINIMUM f'c AT 28 DAYS (PSI)	MAXIMUM w/c RATIO	AIR CONTENT	MINIMUM CEMENTITIOUS MATERIAL (LB/CY)	REMARKS
A	FOOTINGS AND GRADE BEAMS	F0	S0	W0	C0	3000	--	--	--	--
B	FOUNDATION WALLS	F2	S0	W0	C1	4500	0.45	6% ±1.5%	--	--
C	INTERIOR SLABS-ON-GROUND	F0	S0	W0	C0	4000	--	3% MAX	540	--

CONCRETE MIXTURE NOTES:
A. PROVIDE MIX DESIGNS IN ACCORDANCE WITH ACI 301-16 FOR SPECIFIED EXPOSURE CLASS AND AGGREGATE.
B. NOMINAL MAX AGGREGATE SIZE = 3/4" UNLESS OTHERWISE NOTED
C. ALL CONCRETE SHALL BE NORMAL WEIGHT UNLESS OTHERWISE NOTED

0.1" REFERENCE LINE

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ISSUANCES

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3	10-30-26	PERMIT/BID SET

SPECIAL INSPECTIONS

COMM NO. 2026032.01

S003

Cloud Models://Bradford Public Library Addition/Bradford Public Library Add_261248_Struct_v27.rvt
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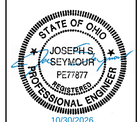
FOUNDATION KEYNOTES	
NO.	DESCRIPTION
K1	FIELD VERIFY EXISTING PIPE ELEVATION AND LOCATION. STEP FOOTING BELOW PIPE IF PROPOSED FOOTING CONFLICTS WITH ELEVATION. REFER TO TYPICAL PIPE SLEEVE DETAIL.
K2	FIELD VERIFY EXISTING FOOTING ELEVATION AND MATCH NEW BOTTOM OF FOOTING ELEVATION.
K3	BOTTOM OF FOOTING ELEVATION TO MATCH INTERSECTING FOUNDATIONS. LAP REINFORCING PER TYPICAL DETAILS.

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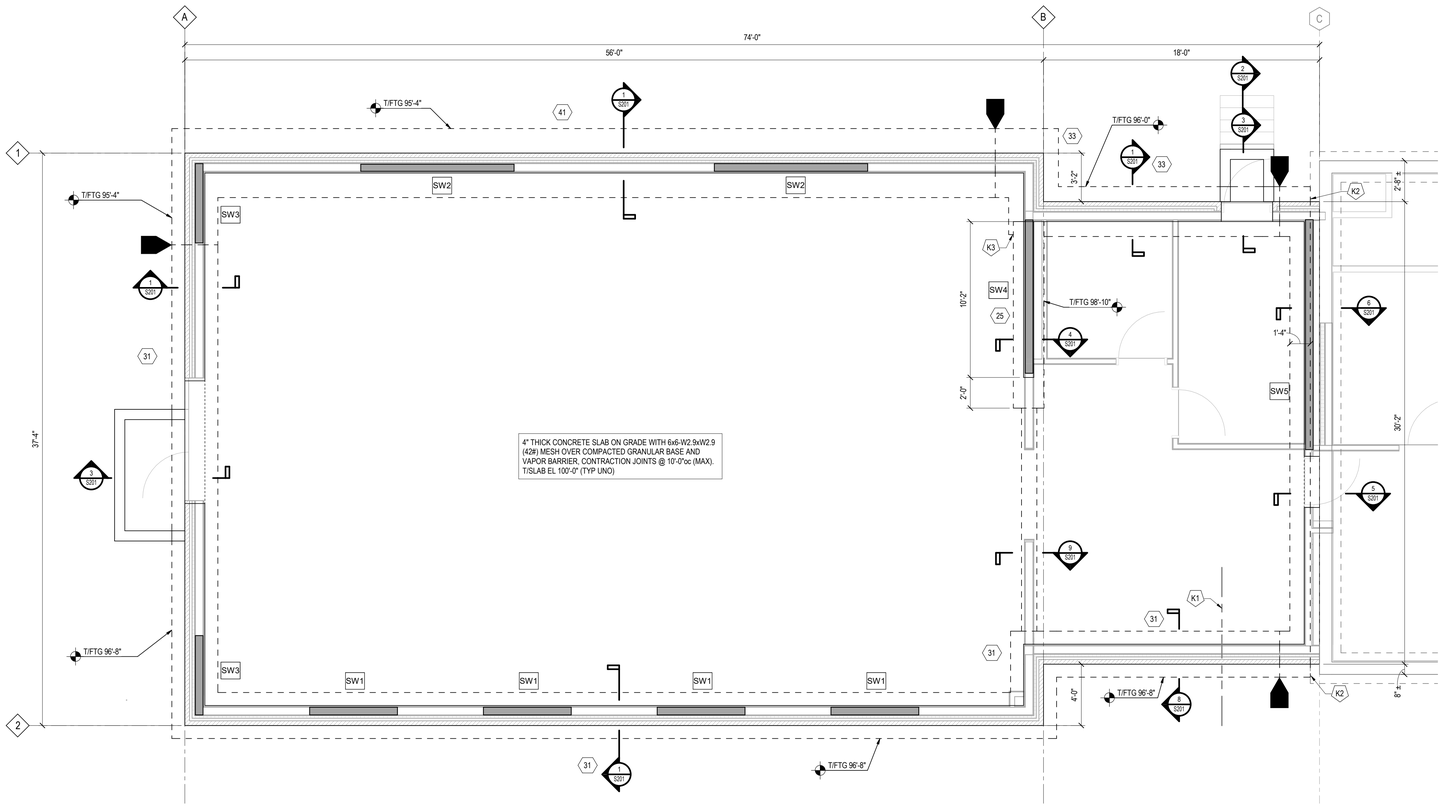
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FOUNDATION PLAN

1/4" = 1'-0"

NORTH

FOUNDATION PLAN NOTES:

1. REFERENCE PLAN ELEVATION 100'-0" = 991.80' MEAN SEA LEVEL.
2. DOORS ARE SHOWN IN APPROXIMATE LOCATIONS, SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
3. SEE SHEET S001 FOR ABBREVIATIONS & LEGEND (SYMBOLS).
4. VERIFY ALL EXISTING BUILDING DIMENSIONS.
5. SLOPE SLAB TO FLOOR DRAINS, COORDINATE WITH ARCHITECTURAL & PLUMBING DRAWINGS.

CONTINUOUS FOOTING SCHEDULE				
MARK	SIZE WIDTH (B)	SIZE THICKNESS (H)	REINFORCING	REMARKS
25	2'-0"	4'-0"	(3) #5 CONT TOP & BOT	
31	3'-0"	1'-2"	(3) #5 CONT TOP & BOT	
33	3'-3"	1'-2"	(4) #5 CONT TOP & BOT	
41	4'-6"	1'-2"	(5) #5 CONT TOP & BOT	

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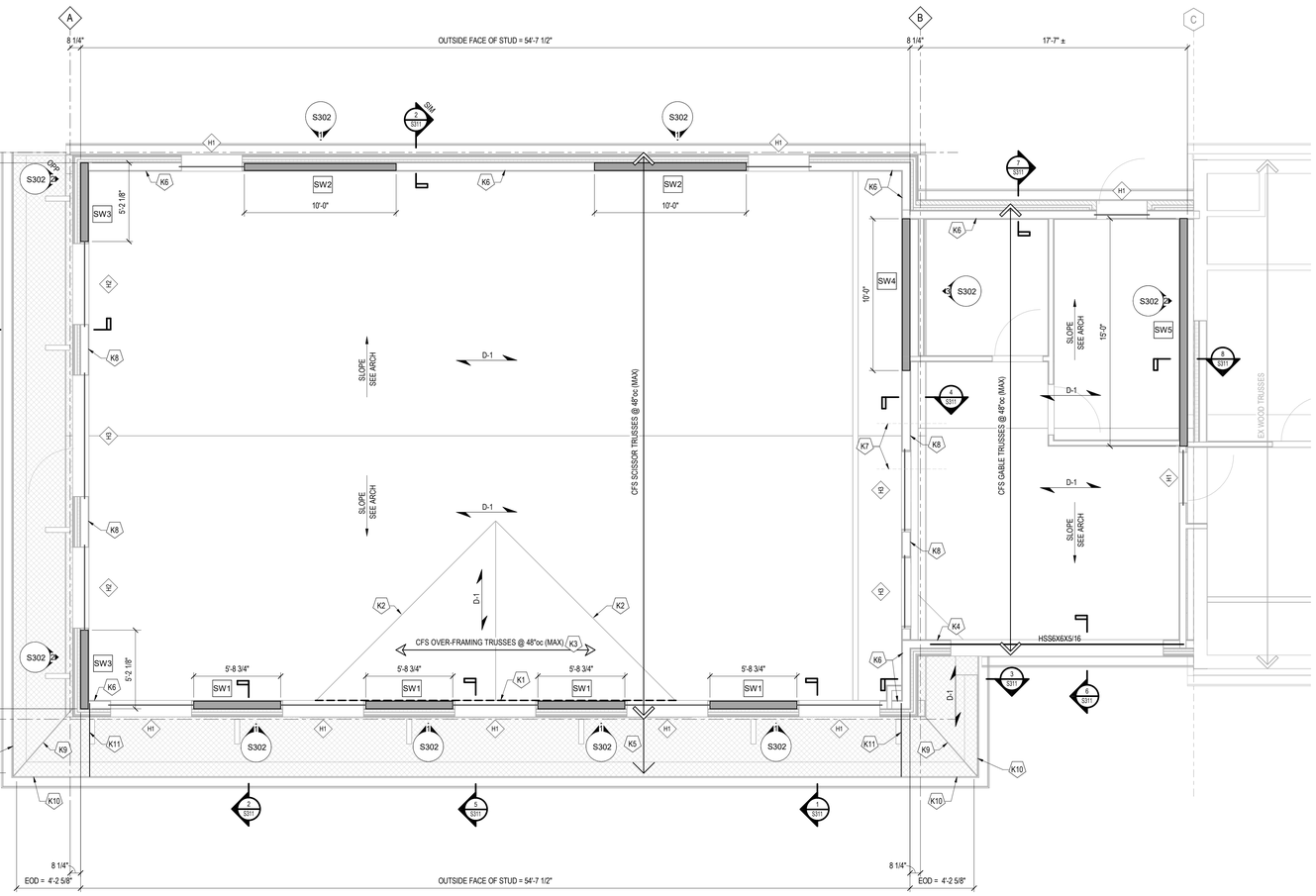
FOUNDATION PLAN

COMM NO. 2026032.01

S101

0.1" REFERENCE LINE

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ROOF FRAMING PLAN

1/4" = 1'-0"

North

ROOF PLAN NOTES:

1. SEE SHEET S301 FOR METAL DECK SCHEDULE.
2. CFS TRUSS MANUFACTURER: SEE SHEET S002 FOR UPLIFT AND SNOW DRIFT LOADING.
3. DOORS & WINDOWS ARE SHOWN IN APPROXIMATE LOCATIONS, SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS & ELEVATIONS.
4. SEE SHEET S001 FOR ABBREVIATIONS & LEGEND (SYMBOLS).
5. CFS TRUSS BEARING ELEVATION AT LOW ROOF = 109'-6"; HIGH ROOF = 109'-7"

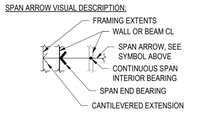
ROOF FRAMING KEYNOTES

NO.	DESCRIPTION
K1	PROVIDE GABLE WALL FRAMING INTERMEDIATELY BETWEEN TRUSSES. GABLE ROOF DECK TO ATTACH TO STUD WALL PER DETAIL.
K2	PROVIDE 12"x18GA BENT CONT PLATE CENTERED ON DECK CHANGE IN DIRECTION w/ #10-16 SDS @ 6"oc EA SIDE OF CHANGE IN DIRECTION
K3	CFS GABLE TRUSS FRAMING OVER SCISSOR TRUSSES BY TRUSS MANUFACTURER
K4	STEEL HSS LINTEL TO BEAR ON (2) 600S200-43 JAMBS EA END, PROVIDE CLARK DIETRICH H436 HEADER GUSSET FASTENED TO 600S162-43 FULL HEIGHT STUDS WITH (4) #10 SDS AND (6) #10 SDS INTO HSS.
K5	TRUSS MANUFACTURER: EXTEND OR PROVIDE TRUSS FRAMING PAST SOUTH BEARING WALL TO SUPPORT OVERHANG CONSTRUCTION. REFER TO DETAIL 1/S311
K6	600S162-43 TYPICAL WALL STUD SPACED AT 16"oc UNO. PROVIDE (2) STUDS AT TRUSS BEARING LOCATIONS. DOUBLE STUDS NOT REQUIRED WHERE CONTINUOUS HSS IS PRESENT AT HIGH ROOF BEARING WALLS.
K7	COORDINATE ROUND DUCT CLEARANCE THROUGH GABLE TRUSS SPACE AND THROUGH WALL INTO HIGH ROOF BULKHEAD. REFER TO MECHANICAL DRAWINGS FOR DUCT SIZE AND LOCATION.
K8	PROVIDE 600S200-54 TYPICAL WALL STUD SPACED AT 16"oc UNO. REFER TO DETAIL 3/S311 FOR OVERHANG FRAMING.
K9	REFER TO CORNER OVERHANG ROOF DECK SUPPORT DETAIL ON S301. ATTACH 600S200-54 TO CORNER STUDS AT BUILDING WALL AND FASCIA JOIST WITH CLARK DIETRICH SKEWABLE ANGLE SA4 (20GA) EACH FACE OF JOIST WITH (6) #10 SDS.
K10	EXTEND FASCIA JOIST (800S200-54 AND 800T125-54) TO CORNER OF OVERHANG. DO NOT SPLICE FASCIA JOIST FOR A BACKSPAN OF AT LEAST (2) TRUSS SPACES, 8'-0" MIN.
K11	PROVIDE OVERHANG FRAMING SIMILAR TO DETAIL 3/311 AT CORNER OF WALL. FASTEN OVERHANG JOISTS TO END STUDS OF SHEAR WALLS WITH CLARK DIETRICH SKEWABLE ANGLE SA4 (20GA) EACH FACE OF JOIST WITH (6) #10 SDS.

WOOD FRAMING LEGEND:

SYMBOL	DESCRIPTION
Hn	HEADER MARK, SEE HEADER SCHEDULE.
	SHEAR WALL EXTENTS, INDICATES LOCATION OF STRAP BRACE SHEAR WALL . SEE PLAN FOR TYPE MARK, SCHEDULE AND DETAILS ARE ON S302.
SWn	SHEAR WALL TYPE MARK. SHEAR LEVEL WIND LOADS TO TRANSFER ROOF LOADS TO HSS ARE AS FOLLOWS: SW1: 0.84 KIPS SW2: 1.68 KIPS SW3: 1.68 KIPS SW4: 4.35 KIPS SW5: 0.985 KIPS

SPAN ARROW VISUAL DESCRIPTION:



"0-1" REFERENCE LINE

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ISSUANCES

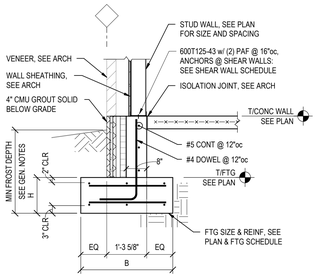
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2	09-14-26	EARLY SITE PACKAGE
3	10-30-26	PERMIT/BID SET

FRAMING PLAN

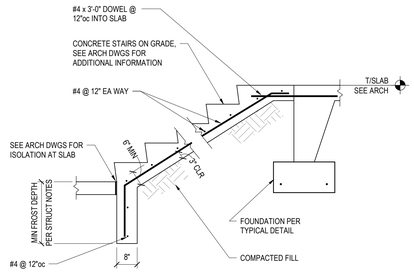
COMM NO. 2026032.01

S102

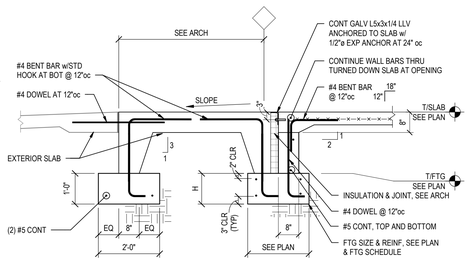
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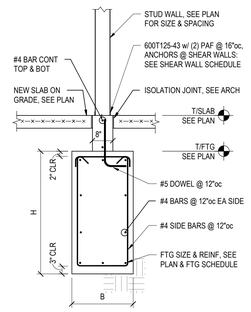
SECTION 1 — 1/2" = 1'-0" — S201



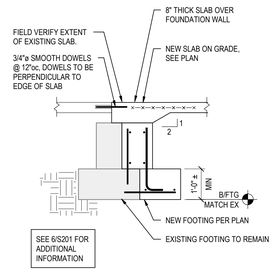
SECTION 2 — 1/2" = 1'-0" — S201



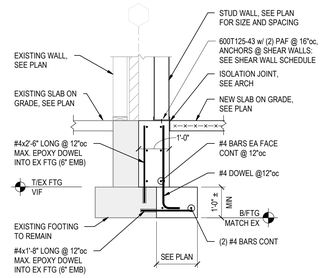
SECTION 3 — 1/2" = 1'-0" — S201



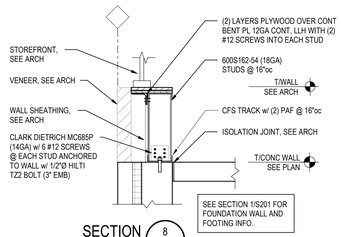
SECTION 4 — 1/2" = 1'-0" — S201



SECTION 5 — 1/2" = 1'-0" — S201

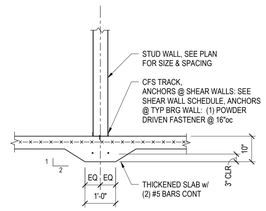


SECTION 6 — 1/2" = 1'-0" — S201

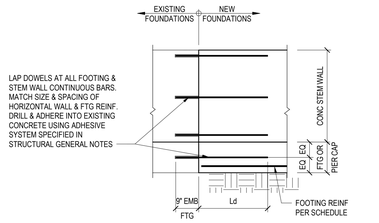


SECTION 8 — 3/4" = 1'-0" — S201

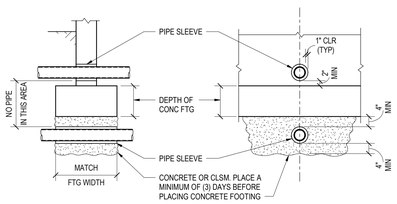
SEE SECTION 1/S201 FOR FOUNDATION WALL AND FOOTING INFO.



SECTION 9 — 1/2" = 1'-0" — S201



TYPICAL FOOTING DOWELS TO EXISTING FOUNDATIONS
NTS



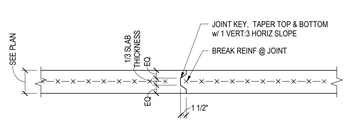
NOTES:
1. REINFORCE OPENINGS FOR SLEEVES OR GROUPS OF SLEEVES LARGER THAN 10" PER THE TYPICAL WALL OPENING DETAIL "GROUPS" OF SLEEVES INCLUDES ALL SLEEVES SPACED CLOSER THAN ONE DIAMETER APART.
2. SEE MECHANICAL AND CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS AT SLEEVES.

TYPICAL PIPE SLEEVE ABOVE/BELOW STRIP FOOTING
NTS

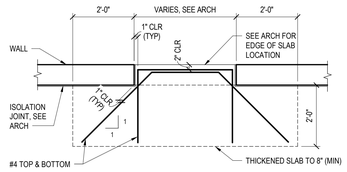


NOTE: SAW JOINTS AS SOON AS CUTTING ACTION WILL NOT DISPLACE AGGREGATE OR OTHERWISE TEAR, ABRADE OR DAMAGE SURFACE

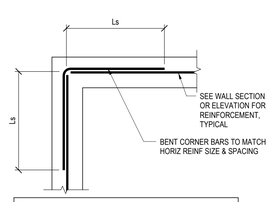
SLAB ON GRADE TYPICAL CONTRACTION JOINT
NTS



SLAB ON GRADE TYPICAL CONSTRUCTION JOINT
NTS

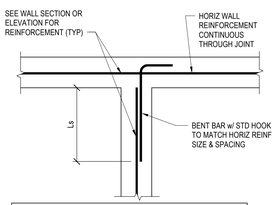


TYPICAL SLAB ON GRADE AT DOOR THRESHOLD
NTS



NOTES:
1. VERTICAL REINFORCEMENT BARS NOT SHOWN FOR CLARITY.

TYPICAL CONCRETE WALL CORNER REINFORCEMENT DETAIL AT SINGLE CURTAIN OF STEEL
NTS



NOTES:
1. VERTICAL REINFORCEMENT BARS NOT SHOWN FOR CLARITY.

TYPICAL CONCRETE WALL INTERSECTION REINFORCEMENT DETAIL AT SINGLE CURTAIN OF STEEL
NTS

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PE77877
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PROFESSIONAL ENGINEER
10/30/2026

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1	08-28-26	DESIGN DEVELOPMENT
2	09-14-26	EARLY SITE PACKAGE
3	10-30-26	PERMIT/BID SET

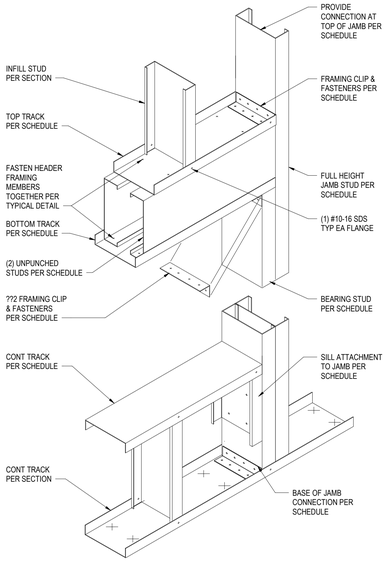
TYPICAL FOUNDATION DETAILS & SECTIONS

COMM NO. 2026032.01

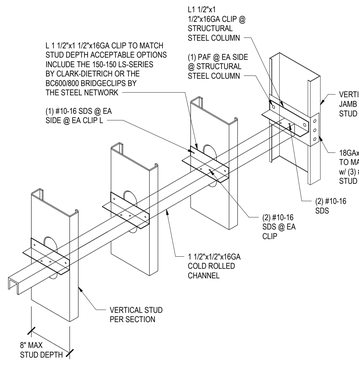
S201

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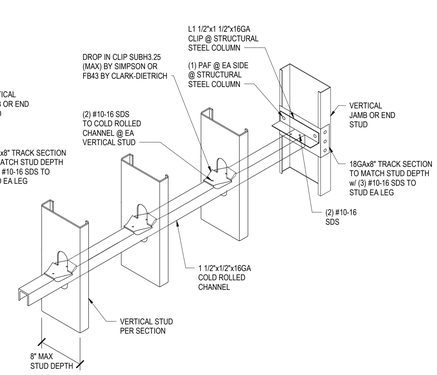
1"= REFERENCE LINE



TYPICAL FRAMED OPENING w/ BOX-BEAM HEADER & BEARING STUDS
NTS

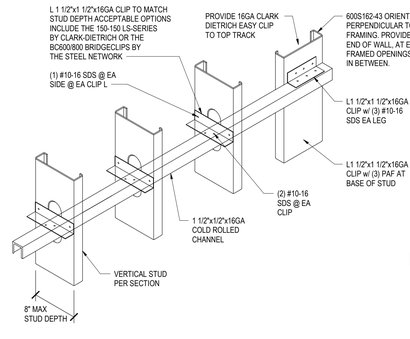


COLD ROLLED CHANNEL OPTION

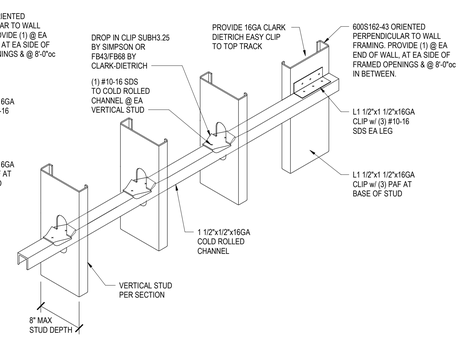


COLD ROLLED CHANNEL w/ DROP-IN CLIP OPTION

COLD ROLLED CHANNEL BRIDGING DETAILS @ NON-LOAD BEARING WALLS
NTS

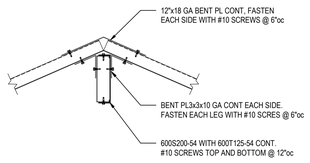


COLD ROLLED CHANNEL w/ CLIP ANGLE OPTION

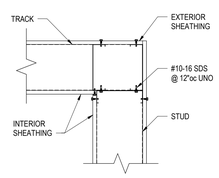


COLD ROLLED CHANNEL w/ DROP-IN CLIP OPTION

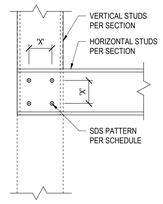
COLD ROLLED CHANNEL BRIDGING DETAILS @ LOAD BEARING WALLS
NTS



TYPICAL CORNER OVERHANG ROOF DECK SUPPORT
NTS

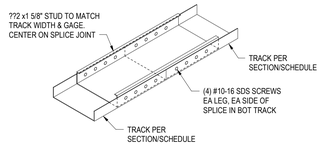


TYPICAL CORNER FRAMING DETAIL
NTS

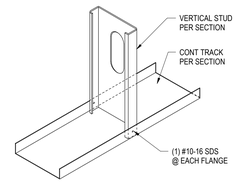


STUD DEPTH	"X"	SDS
3 5/8"	2 1/2"	(4) #12
6"	4"	(6) #12

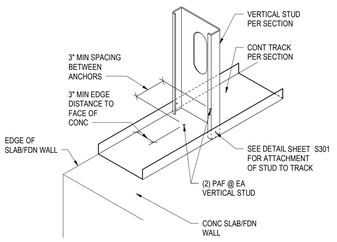
TYPICAL LAPPED STUD DETAIL
NTS



TYPICAL TRACK SPLICE
NTS



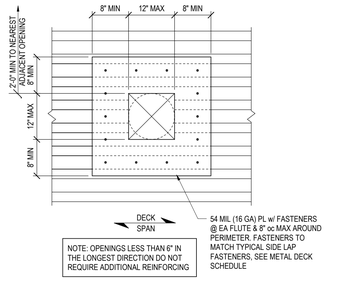
STUD TO TRACK CONNECTION
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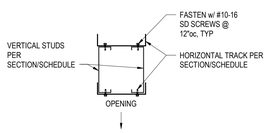
BASE DETAIL AT CONCRETE
NTS

METAL DECK SCHEDULE

MARK	SIZE/PROPERTIES	PROFILE/ATTACHMENT	FASTENERS
D-1	TYPE : 1 1/2" WIDE RIB ROOF DECK GA: 22 GA F_y (MIN): 50 KSI FINISH: GALV (G60)	36" COVERAGE SHEET COVER WIDTH SUPPORT FASTENERS AT SHEET END LAPS, AT WALLS SUPPORT FASTENERS BETWEEN SHEET LAPS AT SUPPORTING STRUCTURE 36/4 PATTERN 6" 6" FASTENERS AT WALLS/GIRDERS	SIDELAP: MIN (4) #10 SDS CONNECTIONS PER SPAN SUPPORT FASTENERS: #12 SDS

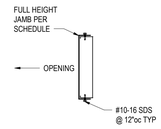


TYPICAL SMALL ROOF DECK OPENING DETAIL FOR OPENINGS ≤ 12"
NTS



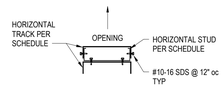
TYPE A - SCREW OPTION

TYPICAL BUILT- HEADER CONNECTION



TYPE A - SCREW OPTION

TYPICAL BUILT- JAMB MEMBER CONNECTION



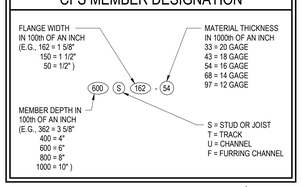
TYPE A - SCREW OPTION

TYPICAL BUILT- SILL MEMBER CONNECTION

FRAMED OPENING SCHEDULE

MARK	HEADER FRAMING			JAMB FRAMING					SILL FRAMING		NOTES
	HEADER SIZE	FRAMING DETAIL	HEADER TO JAMB ATTACHMENT	FULL HEIGHT JAMB(S)	BEARING STUD(S)	JAMB ATTACHMENT AND CONFIGURATION	TOP OF JAMB ATTACHMENT	BOTTOM OF JAMB ATTACHMENT	STUD(S) AND TRACK(S)	SILL ATTACHMENT TO JAMB	
H1	(2) 600S162-54 VERT w/ (2) 600T125-43 HORIZ	TYPE A - SCREW OPTION	CLARKDIETRICH S685 w/ (5) #10 SDS EA LEG TOP & BOT OF HEADER	(2) 600S162-43	(1) 600S162-43	TYPE A - SCREW OPTION	CLARKDIETRICH S685 w/ (5) #10 SDS INTO EA LEG	CLARKDIETRICH S685 w/ (5) #10 SDS INTO EA LEG	(1) 600T125-43	CLARKDIETRICH S685 w/ (5) # 10 SDS INTO EA LEG	ADD CLARK DIETRICH QTWS WEB STIFFENER AT EA END OF HEADER
H2	(2) 600S162-54 VERT w/ (2) 600T125-43 HORIZ	TYPE A - SCREW OPTION	CLARKDIETRICH S685 w/ (5) #10 SDS EA LEG TOP & BOT OF HEADER	(2) 600S250-54	(1) 600S162-54	TYPE A - SCREW OPTION	CLARKDIETRICH S685 w/ (5) #10 SDS INTO EA LEG	CLARKDIETRICH S685 w/ (5) #10 SDS INTO EA LEG	(1) 600T125-43	CLARKDIETRICH S685 w/ (5) # 10 SDS INTO EA LEG	ADD CLARK DIETRICH QTWS WEB STIFFENER AT EA END OF HEADER
H3	(2) 600S162-54 VERT w/ (2) 600T125-43 HORIZ	TYPE A - SCREW OPTION	CLARKDIETRICH S685 w/ (5) #10 SDS EA LEG TOP & BOT OF HEADER	(2) 600S200-54	(1) 600S162-54	TYPE A - SCREW OPTION	CLARKDIETRICH S685 w/ (5) #10 SDS INTO EA LEG	CLARKDIETRICH S685 w/ (5) #10 SDS INTO EA LEG	NA	NA	ADD CLARK DIETRICH QTWS WEB STIFFENER AT EA END OF HEADER

CFS MEMBER DESIGNATION



"L" REFERENCE LINE

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Schaefer Project Number: 26-0317

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PE77877
REGISTERED
PROFESSIONAL ENGINEER
10/30/2026

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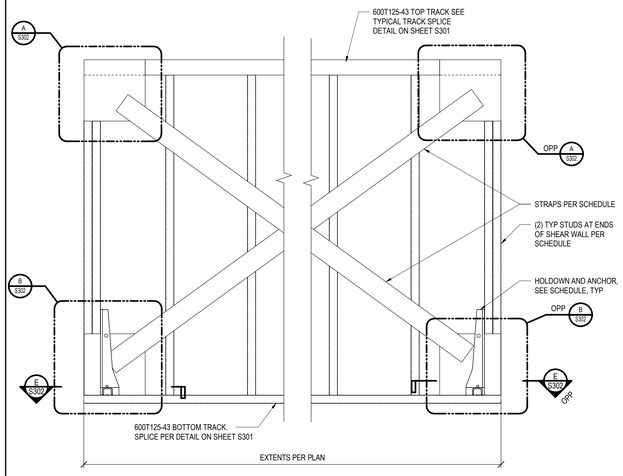
1	08-28-26	DESIGN DEVELOPMENT
2	09-14-26	EARLY SITE PACKAGE
3	10-30-26	PERMIT/BID SET

STEEL & CFS SCHEDULES AND TYPICAL DETAILS

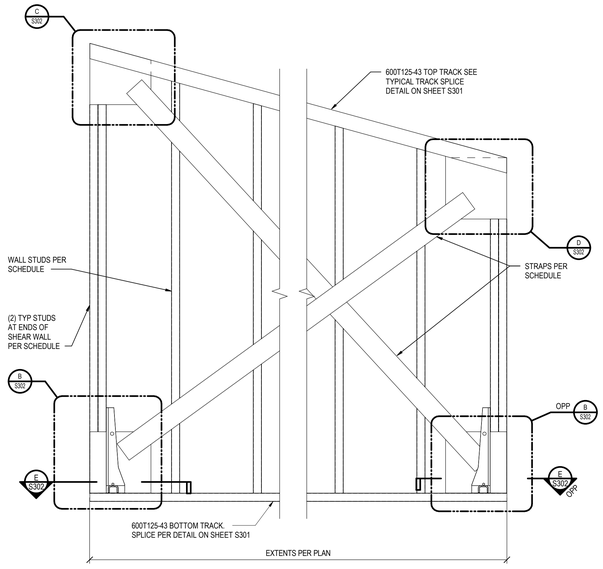
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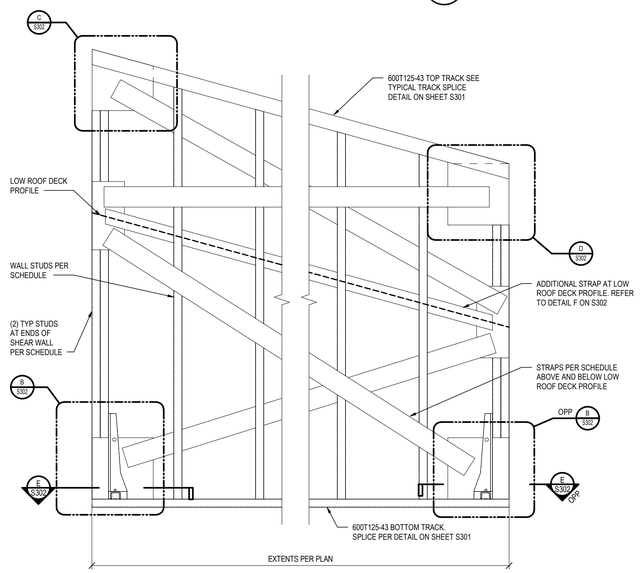
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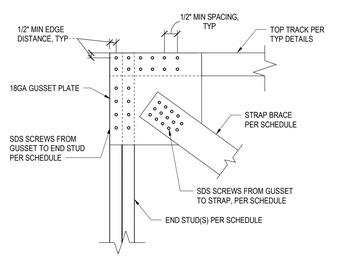
TYPICAL STRAP BRACE SHEAR WALL ELEVATION 1 S302
1" = 1'-0"



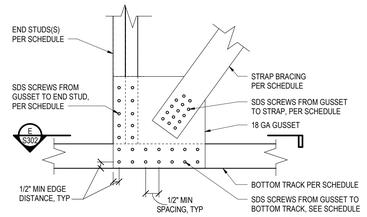
TYPICAL STRAP BRACE SHEAR WALL ELEVATION 2 S302
1" = 1'-0"



TYPICAL STRAP BRACE SHEAR WALL ELEVATION 3 S302
1" = 1'-0"

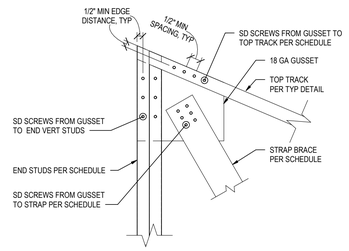


TOP GUSSET DETAIL A S302
1 1/2" = 1'-0"

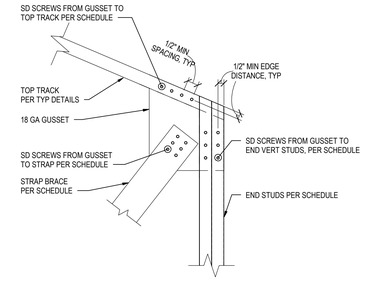


BOTTOM GUSSET DETAIL B S302
1 1/2" = 1'-0"

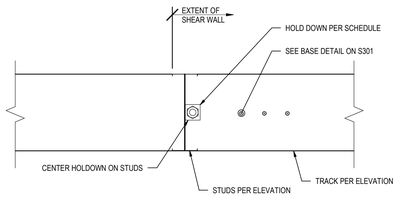
NOTES:
1. HOLDOWN ANCHORS NOT SHOWN FOR CLARITY.



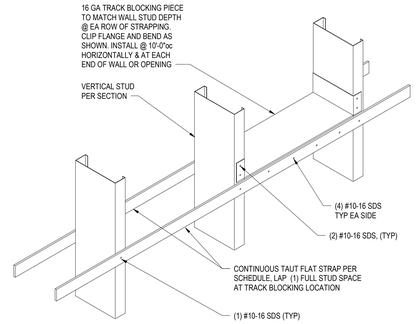
TOP GUSSET DETAIL C S302
1 1/2" = 1'-0"



TOP GUSSET DETAIL D S302
1 1/2" = 1'-0"



DETAIL E S302
1 1/2" = 1'-0"



FLAT STRAP BRACING w/ BLOCKING DETAILS F S302
1 1/2" = 1'-0"

STRAP BRACE SHEAR WALL SCHEDULE

MARK	STRAP BRACING	GUSSET TO TOP TRACK SCREWS	GUSSET TO END STUD SCREWS	GUSSET TO BOTTOM TRACK SCREWS	STRAP TO GUSSET SCREWS	TYPICAL STUD SIZE AND SPACING	BOTTOM TRACK SIZE	BOTTOM TRACK FASTENERS	VERTICAL END STUD SIZE	HOLDOWN AND ANCHOR
SW1	18 GA x 4" SINGLE SIDE	(4) #12 SDS	(6) #12 SDS	(4) #12 SDS	(6) #12 SDS	600S162-43 @ 16"oc	600T125-43	(2) PAF @ 16" o.c	(2) 600S162-43	CLARKDIETRICH CD8 HOLDOWN w/ 7/8" DIA HY 200 THREADED ROD w/ 6" EMBED + (17) #14 SDS INTO END STUDS
SW2	18 GA x 4" SINGLE SIDE	(6) #12 SDS	(6) #12 SDS	(6) #12 SDS	(10) #12 SDS	600S162-43 @ 16"oc	600T125-43	(2) PAF @ 16" o.c	(2) 600S162-43	CLARKDIETRICH CD8 HOLDOWN w/ 7/8" DIA HY 200 THREADED ROD w/ 6" EMBED + (17) #14 SDS INTO END STUDS
SW3	18 GA x 4" EA SIDE	(6) #12 SDS	(8) #12 SDS	(6) #12 SDS	(10) #12 SDS	600S200-54 @ 16"oc	600T125-43	(2) PAF @ 16" o.c	(2) 600250-54	CLARKDIETRICH CD8 HOLDOWN w/ 7/8" DIA HY 200 THREADED ROD w/ 6" EMBED + (17) #14 SDS INTO END STUDS
SW4	18 GA x 4" EA SIDE	(8) #12 SDS	(8) #12 SDS	(8) #12 SDS	(12) #12 SDS	600S200-54 @ 16"oc	600T125-43	(2) PAF @ 16" o.c	(2) 600S162-43	CLARKDIETRICH CD8 HOLDOWN w/ 7/8" DIA HY 200 THREADED ROD w/ 6" EMBED + (17) #14 SDS INTO END STUDS
SW5	18 GA x 4" SINGLE SIDE	(4) #12 SDS	(4) #12 SDS	(4) #12 SDS	(6) #12 SDS	600CT-43 @ 16"oc	600T125-43	(2) PAF @ 16" o.c	(1) 600CT-43	CLARKDIETRICH CD8 HOLDOWN w/ 7/8" DIA HY 200 THREADED ROD w/ 6" EMBED + (17) #14 SDS INTO END STUDS

NOTES:
1. SEE TYPICAL SHEAR WALL ELEAVTIONS AND TYPICAL CONNECTION DETAILS ON SHEET S302

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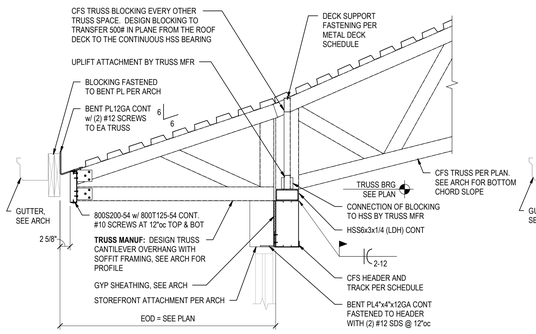
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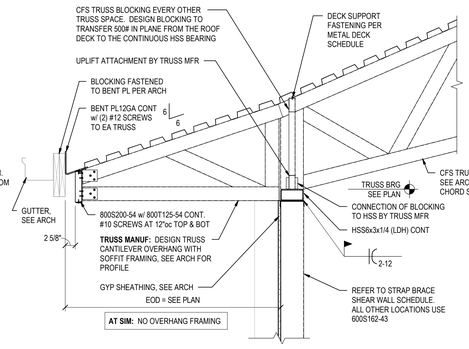
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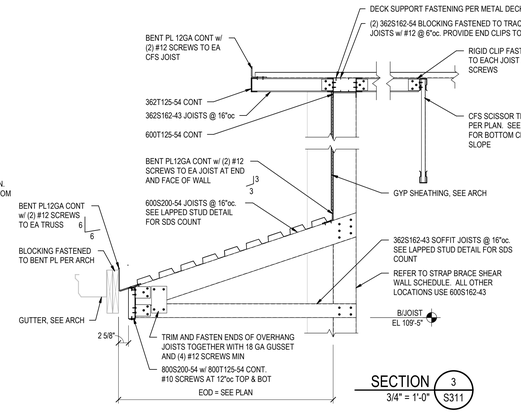
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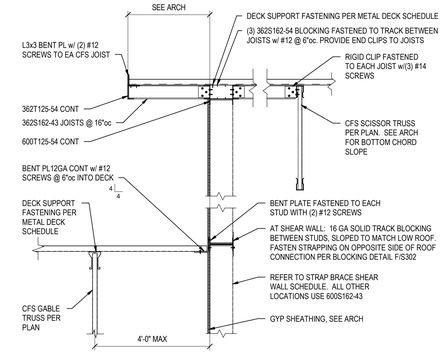
SECTION 1 — 3/4" = 1'-0" — S311



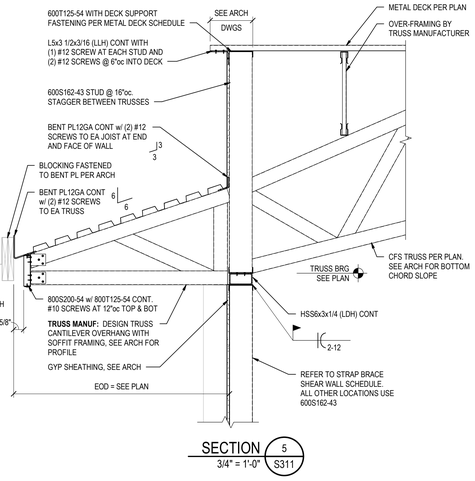
SECTION 2 — 3/4" = 1'-0" — S311



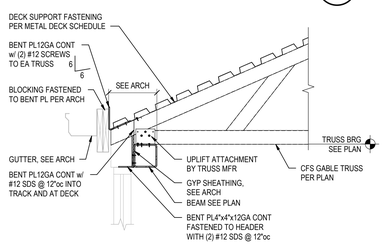
SECTION 3 — 3/4" = 1'-0" — S311



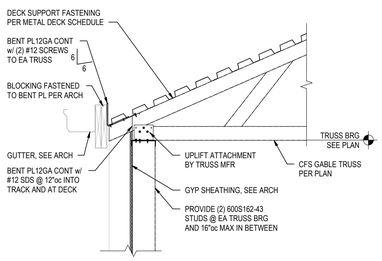
SECTION 4 — 3/4" = 1'-0" — S311



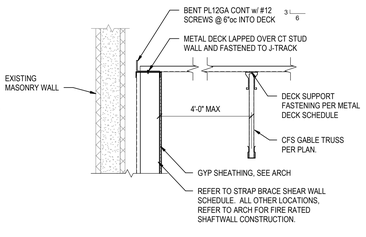
SECTION 5 — 3/4" = 1'-0" — S311



SECTION 6 — 3/4" = 1'-0" — S311



SECTION 7 — 3/4" = 1'-0" — S311



SECTION 8 — 3/4" = 1'-0" — S311

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FRAMING DETAILS & SECTIONS

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0'-1" REFERENCE LINE

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22-SINK SCHEDULE

TYPE LABEL	DESCRIPTION	BASIS OF DESIGN		SUPPLY CONNECTION SIZES		WASTE CONNECTION SIZES				FAUCET			SUPPLY STOP		DRAIN		P - TRAP		NOTES
		MANUFACTURER	MODEL	COLD WATER	HOT WATER	DRAIN	P - TRAP	WASTE	VENT	MANUFACTURER	MODEL	FLOW RATE	MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANUFACTURER	MODEL	
SK-1	UNDERMOUNT SINK / STAINLESS STEEL / SINGLE BOWL / ADA	JUST	USADA1824A55-J	1/2"	1/2"	1.5"	1.5"	2"	2"	ZURN	Z831C4-XL	1.0 GPM	McGUIRE	H165LK	McGUIRE	1151AWC	McGUIRE	B8912	1, 2

NOTES

1. DRAIN HOLE LOCATION TO BE CENTER REAR AND BOWL DEPTH TO BE 5-1/2".
2. MOUNT TMV-5 UNDER SINK. REFER TO DETAIL 4/P001.

22-LAVATORY SCHEDULE

TYPE LABEL	DESCRIPTION	BASIS OF DESIGN		MOUNTING HEIGHT	SUPPLY CONNECTION SIZES		WASTE CONNECTION SIZES				FAUCET			SUPPLY STOP		DRAIN		P - TRAP		NOTES
		MANUFACTURER	MODEL		COLD WATER	HOT WATER	DRAIN	P - TRAP	WASTE	VENT	MANUFACTURER	MODEL	FLOW RATE	MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANUFACTURER	MODEL	
L-1	LAVATORY / WALL MOUNT / AUTOMATIC BATTERY FAUCET	ZURN	Z5360	34" TO RIM	1/2"	1/2"	1.5"	1.5"	2"	2"	SLOAN	SF-2350	0.5 GPM	McGUIRE	H165LK	McGUIRE	155A	McGUIRE	B8902	1

NOTES

1. MOUNT TMV-5 UNDER LAV. REFER TO DETAIL 4/P001.

22-WATER CLOSET SCHEDULE

TYPE LABEL	DESCRIPTION	BASIS OF DESIGN		MOUNTING HEIGHT	COLD WATER CONNECTION	WASTE CONNECTION SIZES			MISC. ACCESSORY	
		MANUFACTURER	MODEL			DRAIN	WASTE	VENT	MANUFACTURER	MODEL
WC-1	WATER CLOSET / FLOOR MOUNT / TANK TYPE	AMERICAN STANDARD	270CB.001	15" TO RIM	1/2"	4"	4"	2"	BEMIS	1655SSCT

22-WATER HEATER SCHEDULE

TYPE LABEL	DESCRIPTION	BASIS OF DESIGN		STORAGE CAPACITY	ELECTRICAL CHARACTERISTICS		
		MANUFACTURER	MODEL		VOLTAGE	Ø	kW
EWH-1	POINT-OF-USE ELECTRIC WATER HEATER	EEMAX	EMT2.5	2.5 GALLONS	120	1	1.5

22-HYDRANT SCHEDULE

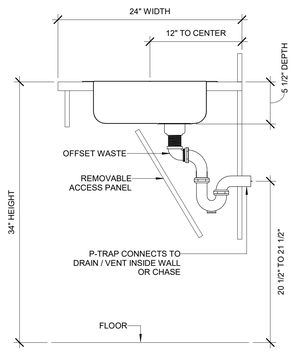
TYPE LABEL	DESCRIPTION	BASIS OF DESIGN		MOUNTING HEIGHT	CONNECTION SIZE
		MANUFACTURER	MODEL		COLD WATER
FPWH-1	FROST PROOF WALL HYDRANT	ZURN	Z1320-XL	18" TO BOTTOM OF BOX	3/4"

22-THERMOSTATIC MIXING VALVE SCHEDULE

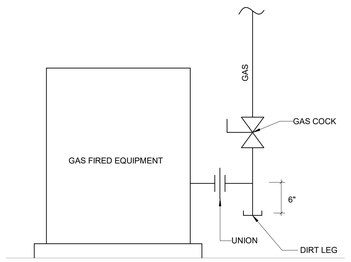
TYPE LABEL	BASIS OF DESIGN		ASSE #	MINIMUM FLOW	FLOW @ 10 PSI DROP	CONNECTION SIZES		NOTES
	MANUFACTURER	MODEL				INLET	OUTLET	
TMV-5	BRADLEY	S59-4000	1070	0.2 GPM	2.5 GPM	1/2"	1/2"	1

NOTES

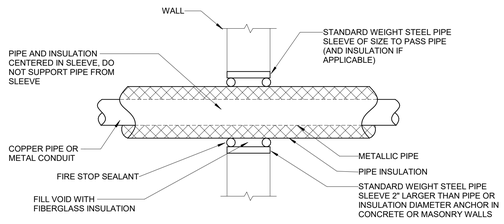
1. TMV-5 MOUNTED UNDER SINKS AND LAVS. REFER TO DETAIL 4/P001.



1 P001 ADA SINK DETAIL

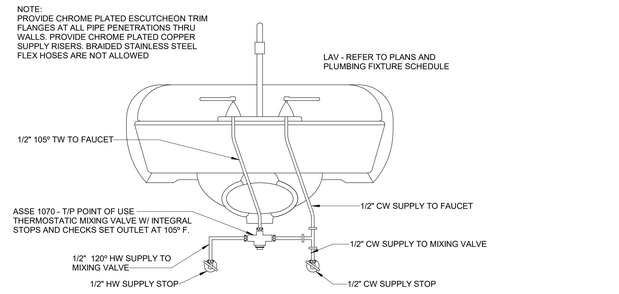


2 P001 GAS EQUIPMENT CONNECTION DETAIL

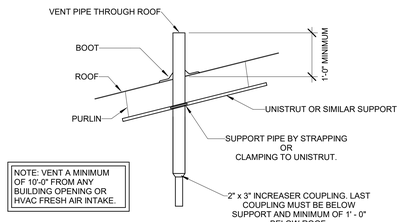


UL DESIGN SYSTEM NO. W-J-1025 FOR 1-HOUR AND 2-HOUR RATED PENETRATIONS
UL DESIGN SYSTEM NO. W-J-1040 FOR 3-HOUR PENETRATIONS
RATING TO MATCH RATING OF WALL ASSEMBLY BEING PENETRATED.

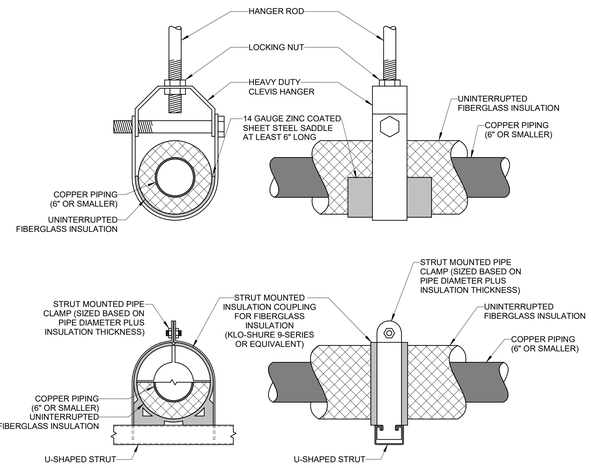
3 P001 PIPE PENETRATION THROUGH FIRE RATED WALL



4 P001 POINT OF USE MIXING VALVE



5 P001 VENT THROUGH ROOF DETAIL



6 P001 PIPE HANGER (6" AND SMALLER)

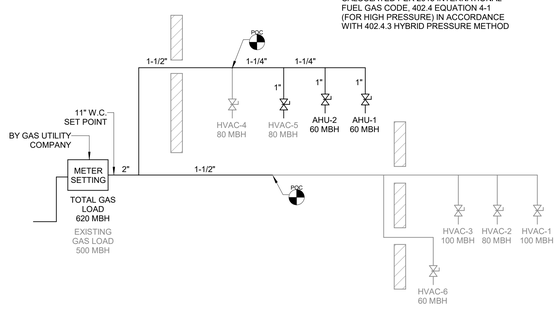
SUPPORT OF GAS PIPING	
STEEL PIPE, NOMINAL SIZE OF PIPE (INCHES)	SPACING OF SUPPORTS (FEET)
1/2	6
3/4 TO 1	8
1 1/4 OR LARGER (HORIZONTAL)	10
1 1/4 OR LARGER (VERTICAL)	EVERY FLOOR LEVEL

GAS PIPE DESIGN:
BUILDING SERVICE

TYPE OF GAS: NATURAL GAS
PIPE MATERIAL: SCHEDULE 40 STEEL
DELIVERY PRESSURE: 11 INCHES W.C.
PRESSURE DROP: 0.5 INCHES W.C.
LENGTH OF LONGEST RUN: 255 ft.

PIPE SIZE	CAPACITY (MBH)
3/4"	63
1"	118
1 1/4"	243
1 1/2"	364
2"	702
2 1/2"	1120
3"	1980
4"	4040

CALCULATED PER 2015 INTERNATIONAL FUEL GAS CODE, 402.4 EQUATION 4-1 (FOR HIGH PRESSURE) IN ACCORDANCE WITH 402.4.3 HYBRID PRESSURE METHOD



7 P001 GAS PIPING SCHEMATIC

GENERAL PLUMBING NOTES

A. "GENERAL NOTES" APPLY TO ALL P SERIES DRAWINGS ISSUED FOR THIS PROJECT. "DRAWING NOTES" APPLY ONLY TO THE SHEETS ON WHICH THEY APPEAR.

B. ALL WORK SHALL BE PERFORMED AND INSTALLED PER THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL CODES, LAWS, REGULATIONS, INSPECTION AGENCIES, UTILITY COMPANIES AND OTHER AUTHORITIES HAVING JURISDICTION.

C. COORDINATE WITH WORK OF OTHER TRADES TO AVOID INTERFERENCES BEFORE BEGINNING WORK.

D. COORDINATE ALL COLUMN PAD ELEVATIONS, INTERIOR AND EXTERIOR FOUNDATION FOOTINGS WHICH REQUIRE PIPE SLEEVES OR LOWERING TO ACCOMMODATE PLUMBING INVERTS PRIOR TO BEGINNING WORK.

E. IN GENERAL, THE P SERIES DRAWING FORMAT IS AS FOLLOWS: SANITARY WASTE PIPING IS LOCATED BELOW THE FLOOR WHEN SHOWN DASHED AND ABOVE THE FLOOR WHEN SHOWN SOLID. INVERT AND CENTERLINE ELEVATIONS AS WELL AS OTHER NOTED INFORMATION MAY BE PROVIDED FOR CLARIFICATION.

F. INSTALL PIPING IN PIPE CHASES, ABOVE CEILINGS AND IN WALLS. INSTALL HORIZONTAL MAINS AND BRANCHES AS HIGH AS PRACTICAL. MAKE OFFSETS IN PIPING TO AVOID INTERFERENCE WITH WORK OF OTHER TRADES WHETHER SHOWN ON DRAWINGS OR NOT. DO NOT INSTALL LIQUID CARRYING PIPING IN OUTSIDE WALLS, ATTIC SPACES OR ANY OTHER AREAS SUBJECT TO FREEZING TEMPERATURES.

G. INSTALL VALVES IN ACCESSIBLE LOCATIONS AND IN SUCH A MANNER AS TO BE EASY TO OPERATE. PROVIDE ACCESS PANELS FOR VALVES INSTALLED IN CONCEALED SPACES SUCH AS ABOVE PERMANENT CEILINGS AND IN OR BEHIND WALLS.

H. PROVIDE ACCESS PANELS FOR ALL EQUIPMENT AND SPECIALTIES SUCH AS WATER HAMMER ARRESTERS OR OTHER DEVICES WHICH MAY REQUIRE ACCESS FOR MAINTENANCE AND OPERATION.

I. REFER TO SANITARY WASTE AND VENT DIAGRAMS, PIPING SYSTEM SCHEMATICS AND OTHER DETAILS PROVIDED FOR ARRANGEMENT OF PIPING AND FOR SIZES NOT SHOWN ON PLANS. THE STACK DIAGRAMS DO NOT SHOW THE TYPE OF FITTINGS REQUIRED AT ALL CONNECTIONS. CONTRACTOR SHALL REFER TO THE LOCAL CODES AND SPECIFICATIONS.

J. SLOPE ALL GRAVITY PIPING OF SIZES 3" DIAMETER AND LARGER AT 1/8"/FT. MINIMUM, AND SIZES 2-1/2" DIAMETER AND SMALLER AT 1/4"/FT MINIMUM WHERE NOT OTHERWISE INDICATED.

K. PROVIDE SLEEVES AND FIRESTOPPING IN COMPLIANCE WITH THE SPECIFICATIONS INCLUDING DIVISION 7 AT PENETRATIONS OF ALL RATED WALLS AND FLOORS. REFER TO DETAIL 3/P001.

L. PLUMBING SCHEDULES IDENTIFY THE BASIS OF DESIGN MANUFACTURER AND MODEL. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

SYMBOLS AND ABBREVIATIONS LEGEND
(THERE MAY BE SYMBOLS LISTED IN THIS LEGEND THAT ARE NOT USED IN THIS SET OF DRAWINGS)

PIPE TAG LEGEND

4" - C
PIPE SIZE (DIA.) — PIPE SYSTEM TYPE

ABBR	DESCRIPTION
C	DOMESTIC COLD WATER
H	DOMESTIC HOT WATER
G	NATURAL GAS
S	SANITARY
V	VENT

- BALL VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- CIRCUIT BALANCING VALVE
- PIPE CONTINUES
- FCO — FLOOR CLEANOUT
- GCO — GRADE CLEANOUT
- FD-# — FLOOR DRAIN
- PIPE TURNING UP
- PIPE TURNING DOWN
- POC — POINT OF CONNECTION
- ? — KEYNOTE NOTE
- FIRE-RATED WALL

0'-1" REFERENCE LINE

PLUMBING UTILITY CONTACT INFO

NATURAL GAS	
UTILITY COMPANY	CenterPoint Energy
UTILITY CONTACT	Randy Cech
PHONE NUMBER	937-440-1630

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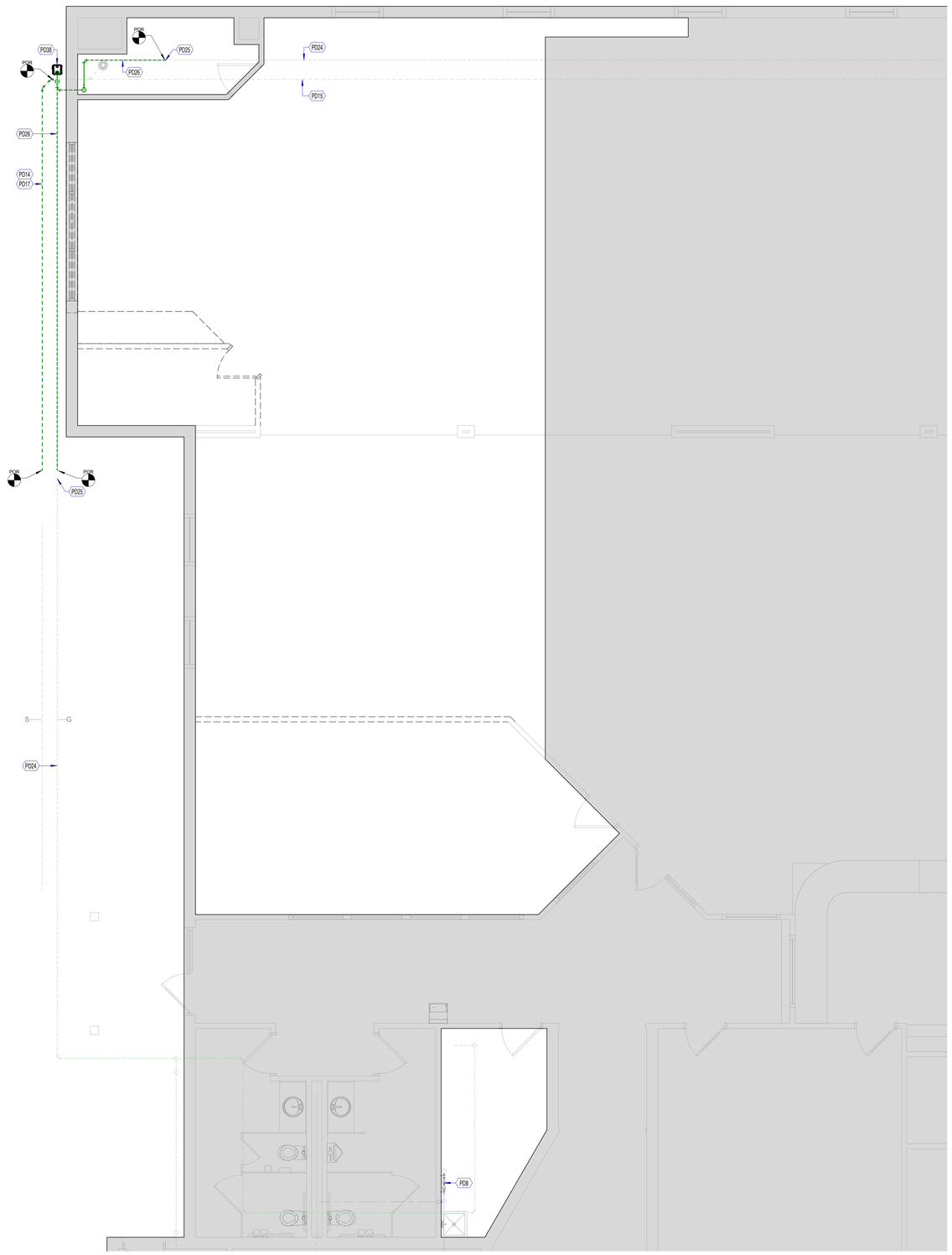
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PLUMBING SCHEDULES AND LEGENDS

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1 PD101 PLUMBING DEMOLITION PLAN
1/4" = 1'-0"

PLUMBING DEMOLITION NOTES

A. DRAWINGS BASED ON FIELD OBSERVATIONS AND EXISTING DRAWINGS. NOTIFY CONSTRUCTION MANAGER OF DISCREPANCIES DUE TO ACTUAL FIELD CONDITIONS BEFORE PROCEEDING.

B. PIPING, FIXTURES, AND EQUIPMENT DENOTED BY BOLD, DASHED LINE TYPE GENERALLY INDICATES WORK TO BE DEMOLISHED. REFER TO DRAWING NOTES AND KEYNOTES FOR FULL EXTENT OF ASSOCIATED DEMOLITION WORK AND ITEMS TO REMAIN.

C. ALL PLUMBING FIXTURES, DOMESTIC HOT & COLD WATER PIPING, AND SANITARY WASTE & VENT PIPING IN THE EXISTING BUILDING ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

KEYNOTES

PD8	DOMESTIC WATER BACKFLOW PREVENTER AND WATER METER TO BE EXISTING TO REMAIN.
PD14	CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING SANITARY PIPE.
PD15	SANITARY PIPING IS EXISTING TO REMAIN.
PD17	SANITARY PIPING TO BE DEMOLISHED. PREPARE REMAINING PIPE FOR RECONNECTION TO THE ADDITIONS NEW SANITARY PIPING.
PD24	GAS PIPING IS EXISTING TO REMAIN.
PD25	TEMPORARILY CAP GAS PIPING FOR RECONNECTION TO NEW SITE GAS METER.
PD26	GAS PIPING TO BE DEMOLISHED.
PD38	GAS METER AND ASSOCIATED PIPING TO BE DEMOLISHED. GAS METER SHALL BE RELOCATED AND UPGRADED AS REQUIRED.

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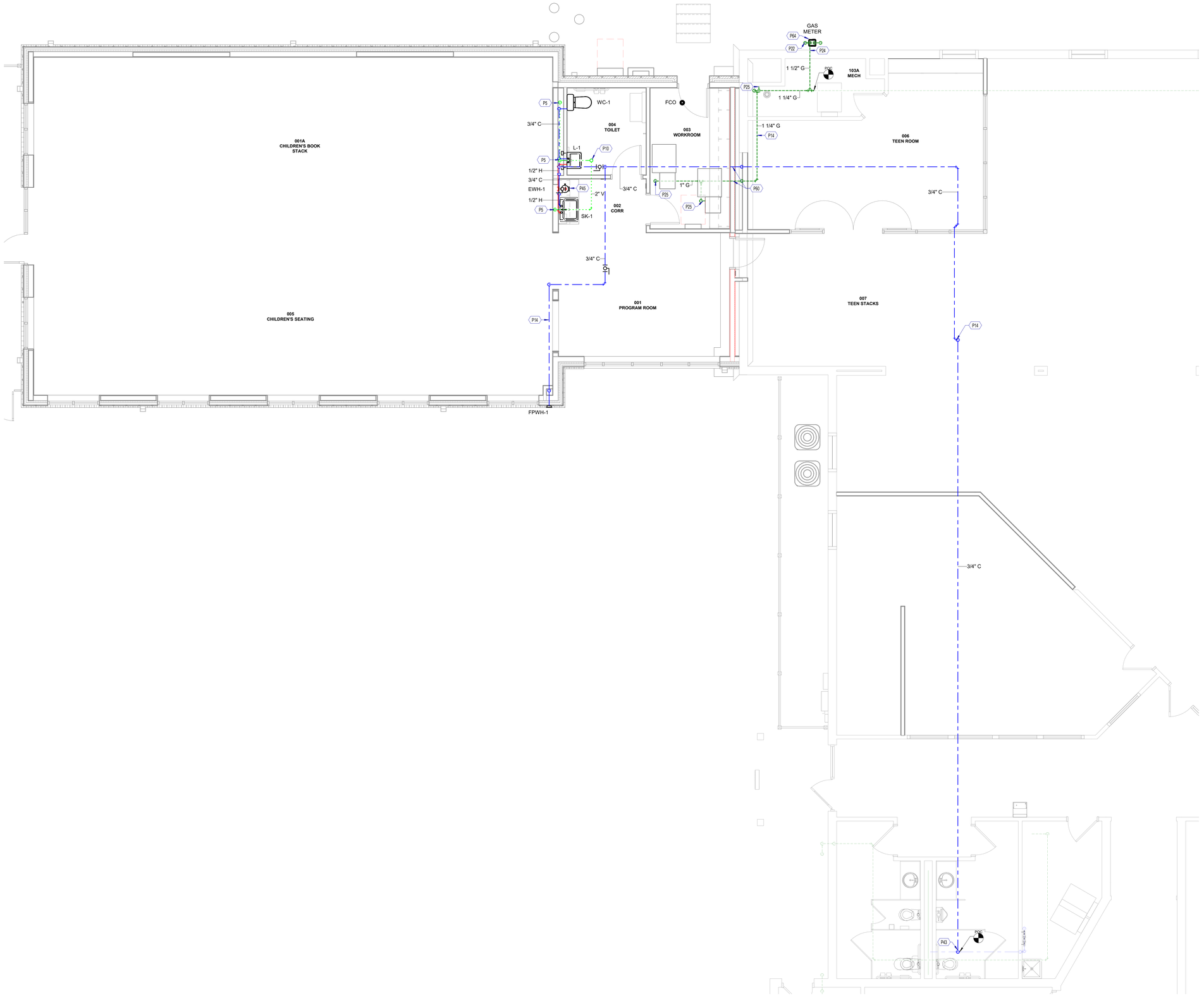
PLUMBING FIRST FLOOR DEMOLITION PLAN

COMM NO. 2026032.01

PD101

0'-1" REFERENCE LINE

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KEYNOTES

P5	SANITARY PIPE DOWN. VENT PIPE UP.
P10	3" VENT THRU ROOF. REFER TO DETAIL 5/P001.
P14	PIPE TO BE ROUTED ABOVE CEILING THROUGH DOUBLE HEIGHT SPACE. COORDINATE PATH IN FIELD.
P22	GAS PIPE DOWN.
P24	GAS SERVICE ENTRANCE.
P25	GAS PIPING CONNECTION TO EQUIPMENT. REFER TO DETAIL 2/P001.
P43	3/4" COLD WATER PIPING TO CONNECT INTO EXISTING COLD WATER SYSTEM. FIELD VERIFY EXACT LOCATION.
P45	POINT OF USE WATER HEATER (EWH-1) TO BE INSTALLED IN THE CABINET ADJACENT TO THE SINK.
P60	MAINTAIN FIRE RATING OF WALL AT PIPE PENETRATION. REFER TO DETAIL 3/P001.
P64	GAS METER SETTING BY CENTERPOINT ENERGY. CONTACT LOCAL REPRESENTATIVE TO COORDINATE METER INSTALLATION.

1 P101 PLUMBING FLOOR PLAN
1/4" = 1'-0"

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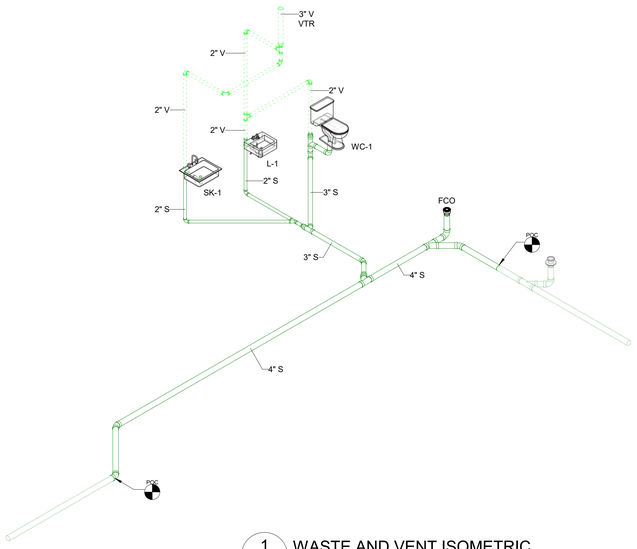
PLUMBING FIRST FLOOR PLAN

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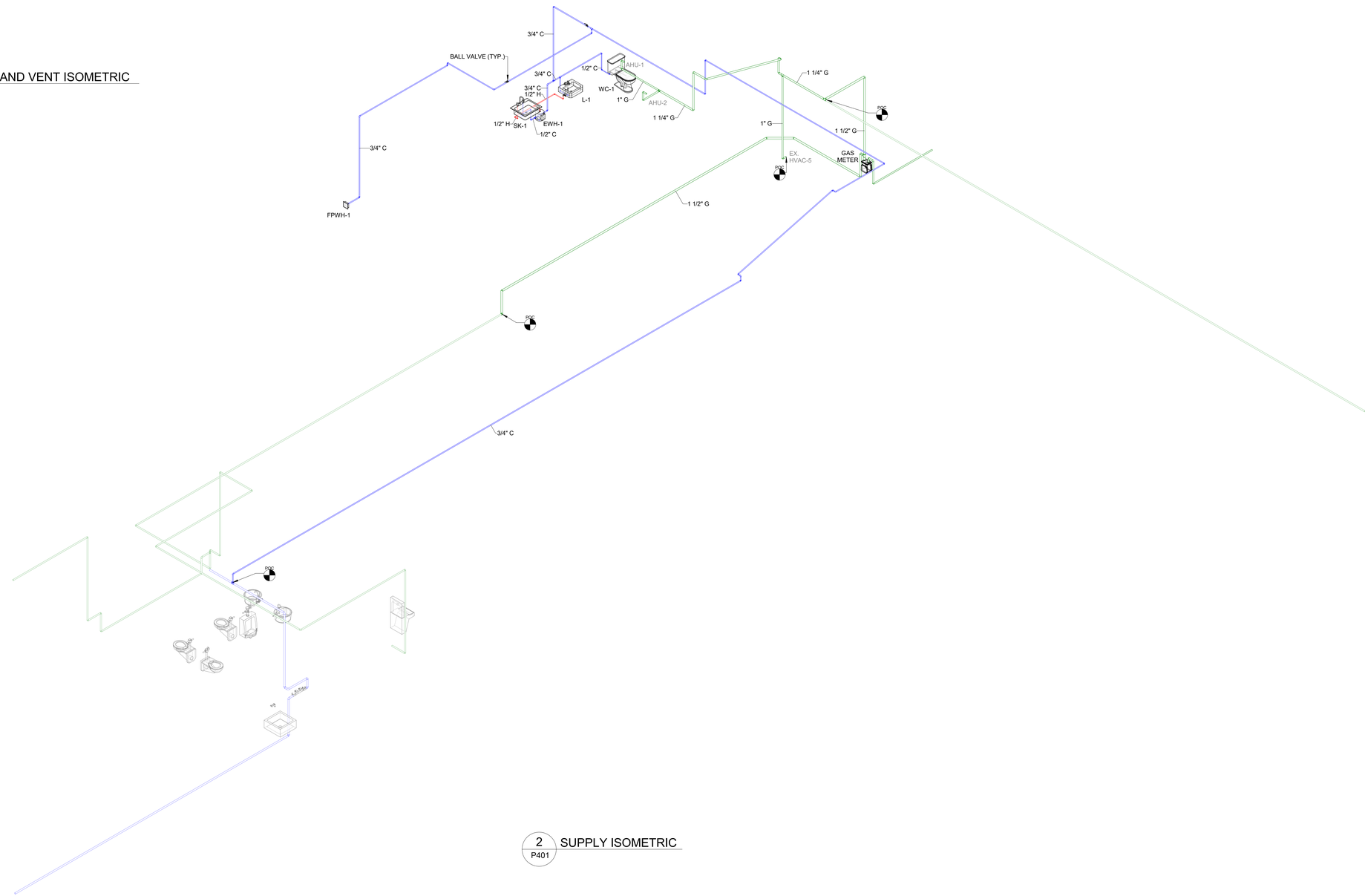
P101

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0'-1" REFERENCE LINE



1 P401 WASTE AND VENT ISOMETRIC



2 P401 SUPPLY ISOMETRIC

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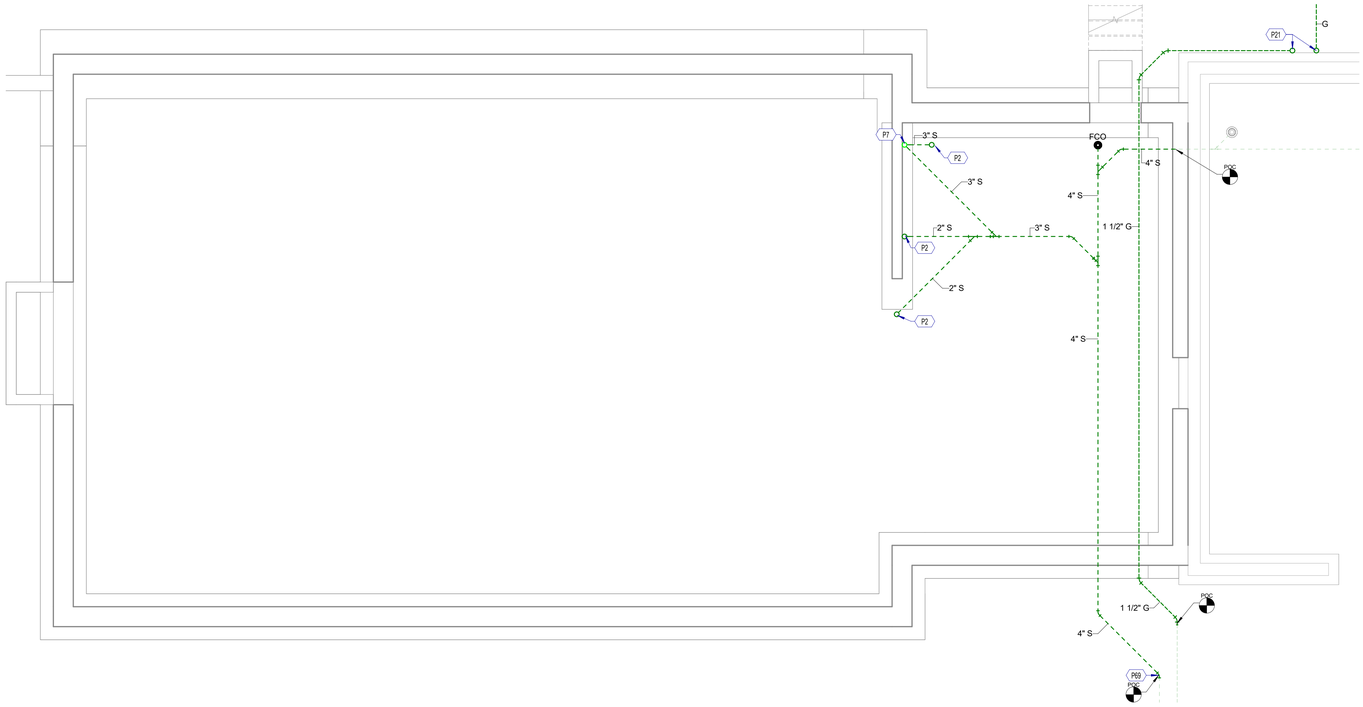
PLUMBING ISOMETRICS

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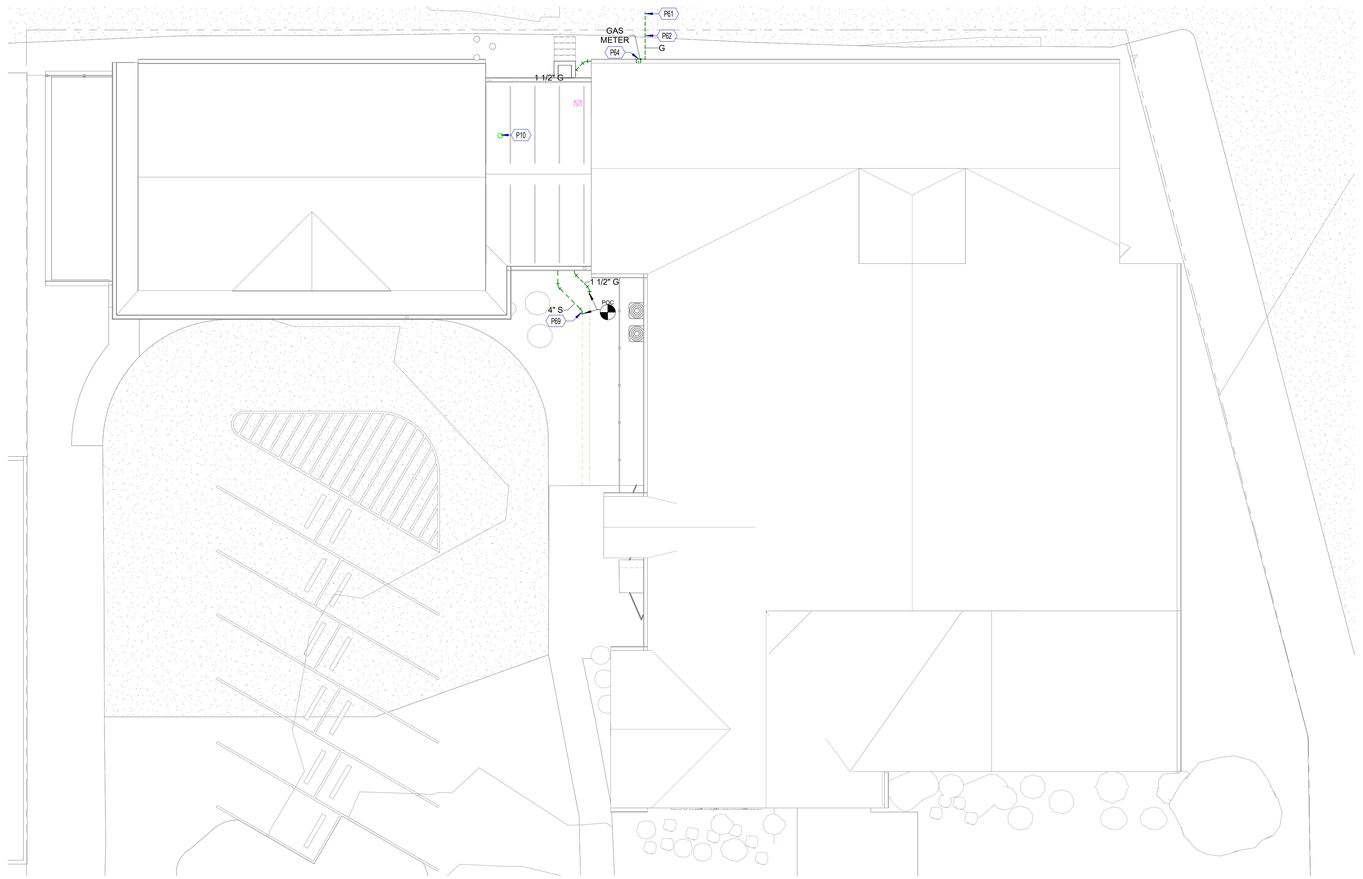
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1 P501 PLUMBING FOUNDATION PLAN
1/4" = 1'-0"



2 P501 PLUMBING SITE PLAN
1" = 10'-0"

KEYNOTES

P2	SANITARY PIPE UP.
P7	VENT PIPE UP.
P10	3" VENT THRU ROOF. REFER TO DETAIL 5/P001.
P21	GAS PIPE UP.
P61	GAS CONNECTION AT STREET BY CENTERPOINT ENERGY.
P62	GAS PIPE SHALL BE PROVIDED AND INSTALLED BY CENTERPOINT ENERGY. CONTACT LOCAL REPRESENTATIVE TO COORDINATE SITE GAS INSTALLATION.
P64	GAS METER SETTING BY CENTERPOINT ENERGY. CONTACT LOCAL REPRESENTATIVE TO COORDINATE METER INSTALLATION.
P69	CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING SANITARY PIPE.

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ISSUANCES

2	09-14-26	EARLY SITE PACKAGE
3	10-30-26	BID/PERMIT

PLUMBING SITE PLAN

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P501

0"-1" REFERENCE LINE

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23-AIR HANDLING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	FURNACE EFFIENCY	OPERATING WEIGHT	AIRFLOW	OUTDOOR AIRFLOW	ESP	INPUT CAPACITY	OUTPUT CAPACITY	ELECTRICAL CHARACTERISTICS				NOTES
										AMPS	MOCP	Ø	VOLTAGE	
AHU-1	CARRIER	59TP6C080V21-20	+96 AFUE	160 lb	1300 CFM	550 CFM	1.00 in-wg	80,000 Btu/h	78,000 Btu/h	13.1 A	20.0 A	1	115 V	1
AHU-2	CARRIER	59TP6C080V21-20	+96 AFUE	160 lb	1300 CFM	550 CFM	1.00 in-wg	80,000 Btu/h	78,000 Btu/h	13.1 A	20.0 A	1	115 V	1

NOTES:

1. TWO-STAGE HEATING, VARIABLE SPEED FAN, COOLING COIL (CARRIER CVAMA MODEL OR EQUAL).

23-CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER	OUTDOOR UNIT	INDOOR COIL MODEL	NOMINAL TONNAGE	TOTAL COOLING CAPACITY	REFRIGERANT TYPE	SEER2	EER2	ELECTRICAL CHARACTERISTICS				TOTAL SYSTEM POWER	NOTES
									MCA	MOCP	Ø	VOLTAGE		
CU-1	CARRIER	26TPA480W003	CVAMA6021XMA	4	47,330 Btu/h	R-454B	16.5	12.5	25.5 A	40.0 A	1	240 V	4 kW	
CU-2	CARRIER	26TPA848W003	CVAMA6021XMA	4	47,330 Btu/h	R-454B	16.5	12.5	25.5 A	40.0 A	1	240 V	4 kW	

23-EXHAUST FAN SCHEDULE

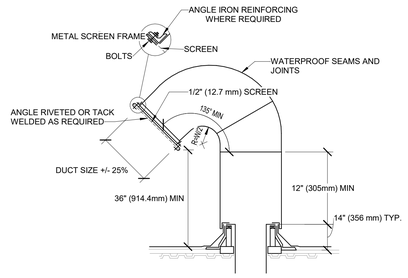
MARK	MANUFACTURER	MODEL	TYPE	AIRFLOW	ESP	RPM	ELECTRICAL CHARACTERISTICS						NOTES
							HP	FLA	MOCP	Ø	VOLTAGE	WATTS	
EF-1	GREENHECK	SP-A110	CEILING	80 CFM	0.30 in-wg	950	0.01	0.6 A	15.0 A	1	120 V	17 W	1

NOTES:

1. ELECTRICAL CONTRACTOR TO INTEGRATE WITH OCCUPANCY SENSOR FOR FAN CONTROL.

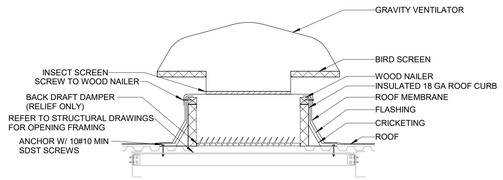
23-AIR DEVICE SCHEDULE

MARK	BASIS OF DESIGN		DIFFUSER TYPE	MAXIMUM AIRFLOW	MAXIMUM PRESSURE DROP	MAXIMUM SOUND	BLADE SPACING	DIFFUSER PATTERN	CONNECTION SIZE (INCH)	FACE SIZE (INCH)	NOTES
	MANUFACTURER	MODEL									
ECG-1	PRICE	8R	EGG GRATE GRILLE	480 CFM	0.085 in-wg	19	1/2" X 1/2"	0	10" X 10"	12" X 12"	
ECG-2	PRICE	80	EGG GRATE GRILLE	1070 CFM	0.085 in-wg	22	1/2" X 1/2"	0	22" X 10"	24" X 12"	
LD-1	PRICE	SDS100/SDB	LINEAR SLOT DIFFUSER	190 CFM	0.085 in-wg	23	3/4"	2 SLOT	7" Ø	48" X 8"	
SD-1	PRICE	SPD	SQUARE PLAQUE DIFFUSER	110 CFM	0.020 in-wg	15	N/A	0	6Ø	24x24	
SD-2	PRICE	SPD	SQUARE PLAQUE DIFFUSER	235 CFM	0.050 in-wg	15	N/A	0	8Ø	24x24	
SD-7	PRICE	SPD	SQUARE PLAQUE DIFFUSER	110 CFM	0.075 in-wg	15	N/A		6Ø	12X12	

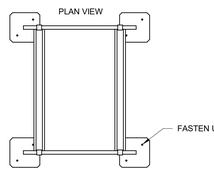


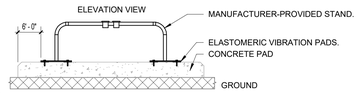
SEE ADDITIONAL FLASHING ALTERNATIVES IN THE SMACNA ARCHITECTURAL SHEET METAL MANUAL. CURBS ARE PREFERABLE FOR ALL DUCT PENETRATIONS OF ROOFS.

5 M001 ROOF GOOSENECK DETAIL

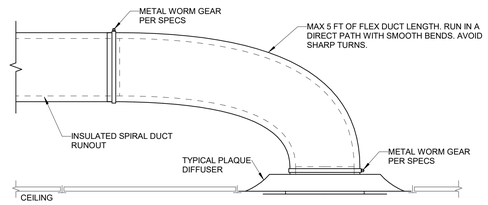


6 M001 ROOF MOUNTED GRAVITY VENTILATOR DETAIL

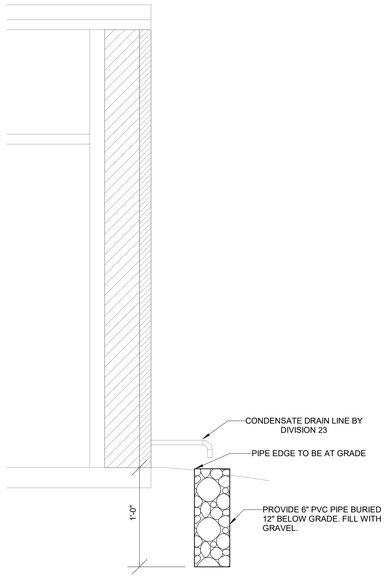




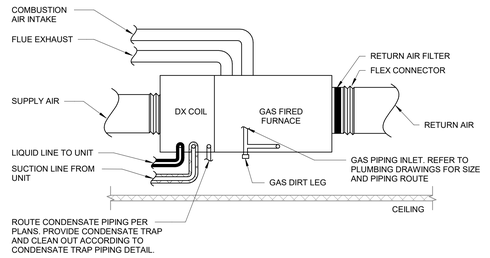
2 M001 CONDENSING UNIT STAND - GROUND-MOUNTED



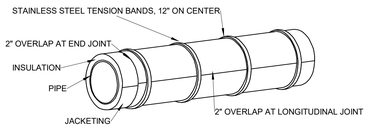
4 M001 FLEX DUCT DETAIL



7 M001 FRENCH DRAIN - FROM BUILDING



8 M001 FURNACE - HORIZONTAL GAS FIRED DETAIL



NOTES: NO FASTENERS OF ANY KIND MAY PUNCTURE JACKETING.



NOTES: JACKETING SEALANT SHALL BE APPLIED IN THE JACKETING JOINT BETWEEN THE OVERLAPPING PIECES OF METAL AND NOT AS A BEAD OF CAULK ON THE EXTERIOR LIP OF THE JACKETING JOINT.

3 M001 EXTERIOR PIPING JACKETING DETAIL

23-HVAC SHEET LIST

SHEET NUMBER	SHEET NAME
M001	MECHANICAL SCHEDULES AND LEGENDS
M002	MECHANICAL VENTILATION CALCS
M101	HVAC PLAN - FIRST FLOOR

ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
ACH	AIR CHANGES PER HOUR
AFUE	ANNUAL FUEL EFFICIENCY RATIO
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
B	BOILER
BACNET	COMMUNICATION PROTOCOL FOR BUILDING AUTOMATION NETWORKS
BAS	BUILDING AUTOMATION SYSTEM
BI	BINARY INPUT
BO	BINARY OUTPUT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS / HOUR
CAV	CONSTANT AIR VOLUME
CDD	COOLING DEGREE DAYS
CFC	CHLOROFLUOROCARBON
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWRT	CHILLED WATER RETURN TEMPERATURE
CHWS	CHILLED WATER SUPPLY
CHWST	CHILLED WATER SUPPLY TEMPERATURE
COP	COEFFICIENT OF PERFORMANCE
CRAC	COMPUTER ROOM AIR CONDITIONER
CT	COOLING TOWER
CV	CONSTANT VOLUME
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWRT	CONDENSER WATER RETURN TEMPERATURE
CWS	CONDENSER WATER SUPPLY
CWST	CONDENSER WATER SUPPLY TEMPERATURE
DAT	DISCHARGE AIR TEMPERATURE
DB	DRY BULB
DCV	DEMAND CONTROLLED VENTILATION
DDC	DIRECT DIGITAL CONTROL
DH	DUCT HEATER
DP	DIFFERENTIAL PRESSURE
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
ECM	ELECTRONICALLY COMMUTATED MOTOR
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EH	ELECTRIC HEATER
EMS	ENERGY MANAGEMENT SYSTEM
ESCO	ENERGY SERVICE COMPANY
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPS
FMS	FACILITY MANAGEMENT SYSTEM
FPM	FEET PER MINUTE
FW	FEED WATER
GPM	GALLONS PER MINUTE
GUI	GRAPHICAL USER INTERFACE
HCFC	HYDROCHLOROCFUOROCARBON
HEPA	HIGH EFFICIENCY PARTICULATE ARRESTING
HFC	HYDROFLUOROCARBON
HHWP	HEATING HOT WATER PUMP
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HL	HIGH LIMIT
HR	HEAT RECOVERY
HRU	HEAT RECOVERY UNIT
HRV	HEAT RECOVERY VENTILATOR
HSPF	HEATING SEASONAL PERFORMANCE FACTOR
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HWRT	HOT WATER RETURN TEMPERATURE
HWST	HOT WATER SUPPLY TEMPERATURE
HX	HEAT EXCHANGER
I/O	INPUT OUTPUT
IAQ	INDOOR AIR QUALITY
IR	INFRA-RED
LAT	LEAVING AIR TEMPERATURE
LHV	LOWER HEATING VALUE
LL	LOW LIMIT
LON	LOCAL OPERATING NETWORK
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LWBT	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
M&V	MEASUREMENT AND VERIFICATION
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MCC	MOTOR CONTROL CENTER
MUA	MAKE-UP AIR UNIT
MZ	MULTI-ZONE
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NO	NORMALLY OPEN
NPSH	NET POSITIVE SUCTION HEAD
OA	OUTSIDE AIR
OAP	OUTSIDE AIR PERCENTAGE
OAT	OUTSIDE AIR TEMPERATURE
ODP	OPEN DRIP PROOF
OWS	OPERATOR WORK STATION
PC	PERFORMANCE CONTRACTING
PE	PROFESSIONAL ENGINEER
PH	PRE-HEAT
PID	PROPORTIONAL INTEGRAL DERIVATIVE
PRV	PRESSURE RELIEF VALVE
PRV	PRESSURE REDUCING VALVE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
RA	RETURN AIR
RF	RETURN FAN
RH	REHEAT
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
RTD	RESISTANCE TEMPERATURE DETECTOR
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SHR	SENSIBLE HEAT RATIO
SP	SET POINT
SP	STATIC PRESSURE
T	THERMOSTAT
TEV	THERMOSTATIC EXPANSION VALVE
TOD	TIME OF DAY
TXV	THERMOSTATIC EXPANSION VALVE
UH	UNIT HEATER
UV	ULTRAVIOLET
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VSP	VARIABLE SPEED PUMP(ING)
WB	WET BULB
WC	WATER COLUMN
YTD	YEAR TO DATE

GENERAL PROJECT NOTES

A. DRAWINGS ARE SCHEMATIC IN NATURE AND SHOW DESIGN INTENT. IF CHANGES ARE MADE DUE TO DIFFERING FIELD CONDITIONS, SUGGESTED CHANGES ARE TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO CHANGES BEING MADE.
B. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE-RATED WALLS.
C. REPAIR ANY WORK DAMAGED AS A RESULT OF WORK BY THIS CONTRACT.
D. CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AND PAY FOR FOR ALL MATERIALS, LABOR, LICENSES, PERMITS, INSPECTIONS, FEES, FINAL CLEANUP, AND QUALITY OF WORKMANSHIP AND MATERIALS REQUIRED TO PERFORM WORK DESCRIBED IN CONTRACT.
E. CONTRACTOR SHALL VERIFY AND SATISFY THAT ALL EQUIPMENT FURNISHED WILL PROPERLY FIT IN THE SPACE PROVIDED, THAT IT WILL FUNCTION PROPERLY, AND THAT ALL PARTS OF EQUIPMENT REQUIRING SERVICE ARE READILY ACCESSIBLE IN COMPLIANCE WITH THE MECHANICAL CODE.
F. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CUTTING AND PATCHING OF WALLS, FLOORS, AND ROOFS REQUIRED FOR DEMOLITION OF EXISTING AND INSTALLATION OF NEW HVAC COMPONENTS. ALL OPENINGS IN WALLS, FLOORS OR CEILINGS SHALL BE PROPERLY SEALED.
G. ALL WORK SHALL BE PERFORMED AND INSTALLED PER THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL CODES, LAWS, REGULATIONS, INSPECTION AGENCIES, UTILITY COMPANIES AND OTHER AUTHORITIES HAVING JURISDICTION.
H. CONTRACTOR SHALL REVIEW EACH SUBMITTAL AND CHECK FOR COORDINATION WITH OTHER WORK OF THE CONTRACT AND FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES TO PRICE AND SCHEDULE AFFECTING ANY TRADE RESULTING FROM USE OF NON-BASIS OF DESIGN EQUIPMENT. EQUIPMENT SCHEDULES SHOW BASIS OF DESIGN.
I. ON RENOVATIONS, MECHANICAL CONTRACTOR TO DEMOLISH AND REMOVE ALL MECHANICAL EQUIPMENT, DUCTWORK, SUPPORTS, CONTROLS, PIPING, ETC. NOT REUSED IN THE FINAL DESIGN.
J. OUTDOOR DESIGN CONDITIONS: SUMMER: 91 DB, 73 WB. WINTER: 6 DB.
K. GENERAL ROOM DESIGN CONDITIONS: SUMMER: 75 DB, 30-60% RH. WINTER: 70 DB.
L. ALL EQUIPMENT AND COMPONENTS INSTALLED IN AN AIR PLENUM SHALL BE PLENUM RATED.
M. COORDINATE LOCATIONS OF ALL HVAC EQUIPMENT AND ACCESSORIES WITH OTHER TRADES.
N. LOCATE WALL OPENINGS FOR DUCTS, GRILLES, AIR TRANSFER OPENINGS, PIPING, ETC. CENTERED BETWEEN FRAMING MEMBERS WHEN POSSIBLE.
O. FOR ALL ROOF-MOUNTED MECHANICAL EQUIPMENT, THE CONTRACTOR SHALL PROVIDE THE CURB, CUT THE ROOF OPENING, AND PROVIDE ROOFING AND ROOF FLASHING AROUND CURB SO THAT ROOF WARRANTY IS MAINTAINED. ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH ALL TRADES. TOPS OF ROOF CURBS SHALL BE 12" ABOVE TOP LAYER OF ROOF INSULATION OR MEMBRANE AND SUPPORTED ON STRUCTURE UNLESS NOTED OTHERWISE.
P. ALL TRANSFER AIR DUCTS SHALL HAVE INTERIOR DUCT LINING. REFER TO THE SPECIFICATIONS FOR DUCT LINING REQUIREMENTS.
Q. ALL DUCT FITTINGS SHALL BE LO-LOSS FITTINGS. ROUND TAPS INTO SQUARE DUCT SHALL BE CONICAL OR BELLMOUTH. SQUARE ELBOWS AND SQUARE OR RECTANGULAR SPLITTERS SHALL USE TURNING VANES. NON-SQUARE ELBOWS SHALL HAVE A MINIMUM RADIUS OF 1.5 TIMES THE RADIUS OF THE DUCT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIRMENTS.
R. WHEN PENETRATING A NON-FIRE RATED WALL OR FLOOR WITH DUCTWORK OR PIPING, SEAL ANNULAR SPACE BETWEEN WALL/FLOOR AND MECHANICAL MATERIALS WITH NON-COMBUSTIBLE FIBERGLASS INSULATION AND JOINT SEALANTS APPROPRIATE FOR SIZE AND DEPTH AND SOUND ATTENUATION CONSIDERATION. REFER TO ARCHITECTURAL SPECIFICATIONS FOR NON FIRE RATED JOINT SEALANTS.
S. ALL FLOOR MOUNTED MECHANICAL EQUIPMENT SHALL BE INSTALLED ON A CONCRETE EQUIPMENT PAD.
T. BALANCE AIR HANDLING UNIT MINIMUM OUTSIDE AIR TO THE OUTSIDE AIRFLOWS INDICATED ON THE VENTILATION SCHEDULE.
U. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR ACCURACY.
V. WHERE ABOVE A GYPSUM CEILING, PROVIDE HARD DUCT CONNECTION AT AIR DEVICE AND USE SHEETMETAL SCREWS AND DUCT SEALANT. DO NOT USE FLEX OR WIRE TIE AT FINAL AIR DEVICE CONNECTION WHEN ABOVE A HARD CEILING.
W. THE USE OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO AIR DEVICE CONNECTIONS AND BE A MAXIMUM OF 60" IN LENGTH.
X. ALL 90° ELBOWS SHALL BE SHEET METAL.
Y. TURNING VANES SHALL BE INSTALLED IN ALL MITERED SUPPLY DUCT TURNS.
Z. MAINTAIN REQUIRED CLEARANCES FROM EXHAUST AND VENT LOCATIONS TO OUTSIDE AIR INTAKE AND OPERABLE DOORS & WINDOWS.
AA. PROVIDE DUCT LINER PER SPECIFICATIONS FOR ALL RETURN DUCT WITHIN 10' OF CONNECTION TO ALL AIR HANDLING EQUIPMENT INCLUDING ROOFTOP UNITS, FAN COILS, HEAT PUMPS, AND AIR HANDLERS.
BB. THERMOSTATS SHALL BE MOUNTED WITH BOTTOM AT 44" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED ON THERMOSTAT INSTALLATION DETAIL ON ELECTRICAL SHEETS.
CC. DUCTS CONNECTING TO INLET AND DISCHARGE OF VAV BOXES SHALL BE SAME SIZE AS BOX CONNECTION.
DD. FOR DIFFUSERS AND GRILLES THAT ARE INSTALLED IN DRYWALL CEILINGS OR OTHER INACCESSIBLE AREAS, PROVIDE INTEGRAL BALANCING DAMPERS.

SYMBOLS AND ABBREVIATIONS LEGEND
(THERE MAY BE SYMBOLS LISTED IN THIS LEGEND THAT ARE NOT USED IN THIS SET OF DRAWINGS)

PIPING SYMBOLS	DESCRIPTION
RS/L	REFRIGERANT SUCTION/LIQUID PIPING
(X)	KEYNOTE NOTE

DUCTWORK SYMBOLS

- LINEAR DIFFUSER
- SUPPLY DIFFUSER / SUPPLY RISER
- RETURN GRILLE / RETURN RISER
- EXHAUST GRILLE / EXHAUST RISER
- SUPPLY AIR DUCT
- RETURN AIR DUCT
- EXHAUST AIR DUCT
- OUTSIDE AIR DUCT
- VAV BOX (WITH CLEARANCE BOX SHOWN)
- BALANCING DAMPER
- BACKDRAFT DAMPER
- SMOKE DAMPER
- FIRE DAMPER
- MOTORIZED CONTROL DAMPER
- INTERNALLY LINED DUCTWORK
- FABRIC DUCTWORK
- FLEXIBLE DUCTWORK

CONTROL SYMBOLS

- THERMOSTAT
- TEMPERATURE SENSOR
- CARBON DIOXIDE SENSOR
- HUMIDITY SENSOR
- VOC SENSOR
- COMBINATION THERMOSTAT / HUMIDITY SENSOR
- CARBON MONOXIDE SENSOR

'0-1" REFERENCE LINE'

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ISSUANCES

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MECHANICAL SCHEDULES AND LEGENDS

COMM NO. 2026032.01

M001

10/23/2026 10:10:52 AM C:\Users\ctrejchel\Documents_LFile27\MEP 2026032.01 Bradford PL - Childrens Room Add and Reno_ctrejchelE9UW7.rvt

Outside Air / ASHRAE Standard 62.1 Summary

System Ventilation Requirements

System	Mode	ΣVpz (cfm)	Ps People	ΣPz People	D Ps / ΣPz	Vou (cfm)	Vps (cfm)	Xs	Ev	Vot (cfm)	%OA Vot / Vps
ADDITION _NEW AHU	Cooling	2,321	80	84	1	1,105	2,321	0.64	1	1,105	47.6%
	Heating	2,321	80	84	1	1,105	2,321	0.705	1	1,105	47.6%
EXISTING BLDG _EXISTING BLD	Cooling	1,029	30	33	1	498	1,029	0.484	1	498	48.4%
	Heating	1,029	30	33	1	498	1,029	0.581	1	498	48.4%
Plenum _NEW AHU	Cooling	396	0	0	1	0	396	0	1	0	0.0%
	Heating	396	0	0	1	0	396	0	1	0	0.0%

Ventilation Parameters

System Zone	Rp cfm/person	Pz People	Ra cfm/ft²	Az (ft²)	Vbz (cfm)	Cooling Ez	Cooling Voz (cfm)	Heating Ez	Heating Voz (cfm)
ADDITION _NEW AHU	9.94	84.00	0.11	2,415	1,105		1,105		1,105
ADDITION	9.94	84.00	0.11	2,415	1,105	1.00	1,105	1.00	1,105
EXISTING BLDG _EXISTING BLD	10.00	32.82	0.12	1,411	498		498		498
EXISTING BLDG	10.00	32.82	0.12	1,411	498	1.00	498	1.00	498
Plenum _NEW AHU	0.00	0.00	0.00	1,924	0		0		0
Plenum	0.00	0.00	0.00	1,924	0	1.00	0	1.00	0

*Ventilation Sizing Factor: 1.00

Ventilation Calculations for Cooling Design

System Zone	Box Type	Vpz (cfm)	Vdz (cfm)	Vpz-min (cfm)	Voz-clg (cfm)	Zpz	Ep	Er	Fa	Fb	Fc	Evz
ADDITION _NEW AHU		2,321	2,321	2,321	1,105							
ADDITION	AIRTERMINAL:SINGLEDUCT:CONSTANTVOLUME:NOREHEAT	2,321	2,321	2,321	1,104.96	0.476	1.00	0.00	0.00	0.00	0.00	1.000
EXISTING BLDG _EXISTING BLD		1,029	1,029	1,029	498							
EXISTING BLDG	AIRTERMINAL:SINGLEDUCT:CONSTANTVOLUME:NOREHEAT	1,029	1,029	1,029	497.61	0.484	1.00	0.00	0.00	0.00	0.00	1.000
Plenum _NEW AHU		396	396	396	0							
Plenum	AIRTERMINAL:SINGLEDUCT:CONSTANTVOLUME:NOREHEAT	396	396	396	0.00	0.000	1.00	0.00	0.00	0.00	0.00	1.000

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Ventilation Calculations for Cooling Design

System Zone	Box Type	Vpz (cfm)	Vdz (cfm)	Vpz-min (cfm)	Voz-clg (cfm)	Zpz	Ep	Er	Fa	Fb	Fc	Evz

Ventilation Calculations for Heating Design

System Zone	Box Type	Vpz (cfm)	Vdz (cfm)	Vpz-min (cfm)	Voz-htg (cfm)	Zpz	Ep	Er	Fa	Fb	Fc	Evz
ADDITION _NEW AHU		2,321	2,321	2,321	1,105							
ADDITION	AIRTERMINAL:SINGLEDUCT:CONSTANTVOLUME:NOREHEAT	2,321	2,321	2,321	1,104.96	0.476	1.00	0.00	0.00	0.00	0.00	1.000
EXISTING BLDG _EXISTING BLD		1,029	1,029	1,029	498							
EXISTING BLDG	AIRTERMINAL:SINGLEDUCT:CONSTANTVOLUME:NOREHEAT	1,029	1,029	1,029	497.61	0.484	1.00	0.00	0.00	0.00	0.00	1.000
Plenum _NEW AHU		396	396	396	0							
Plenum	AIRTERMINAL:SINGLEDUCT:CONSTANTVOLUME:NOREHEAT	396	396	396	0.00	0.000	1.00	0.00	0.00	0.00	0.00	1.000

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23-MECHANICAL/ELECTRICAL COORDINATION SCHEDULE

MARK	SPECIFICATION SECTION	STARTING MEANS TYPE	STARTING MEANS PROVIDED BY	STARTING MEANS INSTALLED BY	STARTING MEANS LOCATION	DISCONNECTING MEANS TYPE	DISCONNECTING MEANS PROVIDED BY	DISCONNECTING MEANS INSTALLED BY	DISCONNECTING MEANS LOCATION	ELECTRICAL VOLTS	ELECTRICAL POLES	ELECTRICAL AMPS	ELECTRICAL MOCP
AHU-1	DIV. 23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	120 V	1	13.1 A	20.0 A
AHU-2	DIV. 23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	120 V	1	13.1 A	20.0 A
CU-1	DIV. 23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	240 V	2	25.5 A	40.0 A
CU-2	DIV. 23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	240 V	2	25.5 A	40.0 A
EF-1	DIV. 23	N/A	N/A	N/A	N/A	MRTS	DIV. 26	DIV. 26	NEAR UNIT	120 V	1	0.6 A	15.0 A

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MECHANICAL VENTILATION CALCS

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M002

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GENERAL DUCT PLAN NOTES:

A. DO NOT ROUTE DUCTWORK OVER ELECTRICAL EQUIPMENT, THROUGH ELECTRICAL ROOMS, ELEVATOR SHAFTS, OR THROUGH INTERIOR EXIT STAIRWELLS UNLESS OTHERWISE NOTED.
B. DUCTS SERVING DIFFUSERS AND GRILLES ARE TO BE THE SAME SIZE AS DIFFUSER NECK SIZE OR GRILLE FACE UNLESS NOTED OTHERWISE.
C. PROVIDE VOLUME CONTROL DAMPERS IN RUN-OUT DUCT TO ALL SUPPLY AIR DEVICES.
D. DUCT DIMENSIONS SHOWN ARE INTERNAL DIMENSIONS.

KEYNOTES

M1 PIPE UP TO ROOF. CONTENTRIC FLUE KIT AT ROOF.

M2 RELIEF AIR TO EXHAUST GRAVITY HOOD ON ROOF. EQUAL TO GREENHECK MODEL FGR, THROAT SIZE TO MATCH DUCT SIZE, WITH INSULATED CURB SLOPED TO MATCH THE ROOF.

M3 OUTDOOR AIR INTAKE UP TO GRAVITY HOOD ON ROOF. EQUAL TO GREENHECK MODEL FGI, THROAT SIZE TO MATCH DUCT SIZE, WITH INSULATED CURB SLOPED TO MATCH THE ROOF.

M4 EXHAUST DUCT UP TO GOOSENECK ON ROOF.

M5 CONDENSATE PIPE TO FRENCH DRAIN.

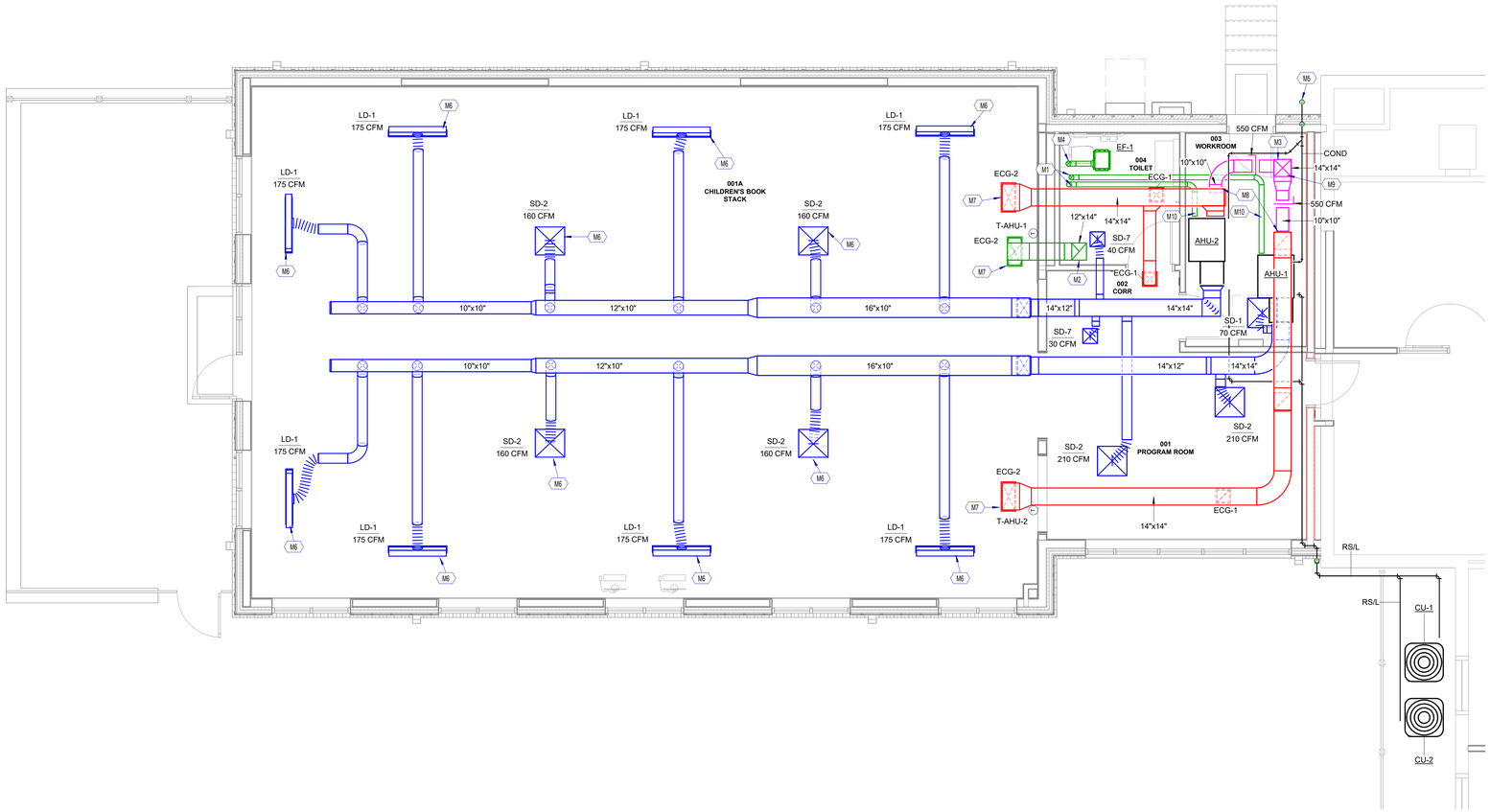
M6 INCLUDE INTEGRAL BALANCING DAMPER ACCESIBLE FROM BELOW THROUGH FACE OF DIFFUSER.

M7 RETURN GRILLE LOCATED AT BOTTOM FACE OF SOFFIT.

M8 TAP OUTSIDE AIR DIRECTLY INTO AHU RETURN.

M9 INSTALL 24V CONTROL DAMPER TO OPEN DURING OCCUPIED HOURS VIA TIMECLOCK.

M10 RESPRESENTS TWO PIPES, 4" AIR INTAKE AND 4" FLUE, SHOWN AS ONE FOR CLARITY.



1 M101 FIRST FLOOR DUCTWORK PLAN
1/4" = 1'-0"

"0-1" REFERENCE LINE

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HVAC PLAN - FIRST FLOOR

COMM NO. 2026032.01

M101

SYSTEM RESPONSIBILITY SCHEDULE

SYSTEM/DEVICE	RACEWAY & BOXES		CABLING		DEVICE		NOTES
	PROVIDED BY:	*INSTALLED BY:*	*PROVIDED BY:*	*INSTALLED BY:*	*PROVIDED BY:*	*INSTALLED BY:*	
COMMUNICATIONS - AV EQUIPMENT	DIV. 26	DIV. 26	DIV. 27	DIV. 27	DIV. 27	DIV. 27	N/A
SECURITY - CAMERAS	DIV. 26	DIV. 26	DIV. 28	DIV. 28	DIV. 28	DIV. 28	N/A
TECHNOLOGY - DATA OULETS	DIV. 26	DIV. 26	DIV. 27	DIV. 27	DIV. 27	DIV. 27	N/A
TECHNOLOGY - DIGITAL DISPLAYS	DIV. 26	DIV. 26	DIV. 27	DIV. 27	DIV. 27	DIV. 27	N/A
TECHNOLOGY - NETWORK SWITCHES	DIV. 26	DIV. 26	DIV. 27	DIV. 27	DIV. 27	DIV. 27	N/A
TECHNOLOGY - TELEPHONE DEVICES	DIV. 26	DIV. 26	OWNER	OWNER	OWNER	OWNER	N/A
TECHNOLOGY - WIRELESS ACCESS POINTS	DIV. 26	DIV. 26	DIV. 27	DIV. 27	OWNER	DIV. 27	N/A

GENERAL NOTES

A. RESPONSIBILITY SCHEDULE IS PROVIDED AS A GENERAL GUIDELINE. COMPLETE SCOPE OF WORK SHALL BE COORDINATED WITH OWNER.

B. REFER TO WIRING METHODS SCHEDULE FOR SELECTION OF RACEWAY TYPE FOR EACH APPLICATION. CONDUITS SHALL BE A MINIMUM OF 1" AND SHALL BE PROVIDED WITH PULL STRING, UNLESS OTHERWISE NOTED.

C. WHERE DEVICES ARE LOCATED IN HARD CEILINGS, ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT WITH PULL STRING TO DEVICE BOX. WHERE DEVICES ARE LOCATED IN ACCESSIBLE CEILINGS, ELECTRICAL CONTRACTOR SHALL ONLY PROVIDE CONDUIT FROM THE TECHNOLOGY ROOM TO THE AREA ABOVE THE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE.

TECHNOLOGY AND SECURITY SYSTEMS INFORMATION AND LEGENDS

GENERAL NOTES

A. REFER TO DIVISION 27 SPECIFICATIONS FOR FULL EXTENT OF TECHNOLOGY SYSTEMS SCOPE.

B. REFER TO DIVISION 28 SPECIFICATIONS FOR FULL EXTENT OF SECURITY SYSTEMS SCOPE.

C. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TECHNOLOGY DEVICE ROUGH-IN. PROVIDE A MINIMUM OF 1" CONDUIT WITH PULL STRING, STUBBED ABOVE NEAREST ACCESSIBLE CEILING WITH INSULATED BUSHING ON END TO ALL TECHNOLOGY DEVICE LOCATIONS, UNLESS NOTED OTHERWISE.

D. PROVIDE 4-11/16" SQUARE BOX, MIN. 2-1/8" DEEP WITH SINGLE GANG TILE RING FOR ALL DEVICES UNLESS NOTED OTHERWISE.

DATA DROPS

XX" — MOUNTING HEIGHT OF BACKBOX, RELATIVE TO BOTTOM OF BOX. IF OMITTED, DEFAULT MOUNTING HEIGHT IS 16"

DATA DROP WITH DEVICE — X INDICATES DEVICE TYPE

XX" XX

DATA DROP (NO DEVICE)

D	DATA OUTLET
TV	TELEVISION
WAP	WIRELESS ACCESS POINT

SECURITY CAMERAS

		WHERE WALL MOUNTED:
	SINGLE HEAD CAMERA	MOUNT INTERIOR CAMERAS AT 10'-0" AFF UNO
	DUAL HEAD CAMERA	
	QUAD HEAD CAMERA	MOUNT EXTERIOR CAMERAS AT 10'-0" AFF UNO
	360° FISHEYE CAMERA	
	HUDL DYNAMIC CAMERA	

ACCESS CONTROL DEVICES

X — *SECURITY DEVICE (BUTTON)*	VERIFY MOUNTING REQUIREMENTS PRIOR TO INSTALLATION. (REFER TO 1/E501)
X — *SECURITY DEVICE (MISC.)*	X INDICATES DEVICE TYPE

DRAFTING SYMBOL LEGEND

SYMBOL	DESCRIPTION
X	DRAWING KEY NOTE ONLY NOTES THAT APPLY APPEAR ON EACH SHEET. KEY NOTE NUMBERS ARE CONSISTENT FROM SHEET TO SHEET, AND THEREFORE MAY NOT APPEAR IN NUMERICAL ORDER.
2 / E501	DETAIL CALLOUT REFER TO DETAIL 2 ON SHEET E501
	CIRCUIT TAG XX INDICATES PANEL NAME, ## INDICATES CIRCUIT NUMBER.
XX.##	TAGS AT THE END OF A HOMERUN WIRE APPLY TO ALL DEVICES AS INDICATED BY CONNECTED WIRING.
XX.##	TAGS WITHOUT BORDER APPLY TO THE SINGLE DEVICE OR FIXTURE ADJACENT TO THE TAG.
XX.##	TAGS WITH BORDER APPLY TO ALL DEVICES OR FIXTURES SHOWN WITHIN AN ENCLOSED SPACE, UNO.

26-ELECTRICAL SHEET LIST

SHEET NUMBER	SHEET NAME
E001	ELECTRICAL LEGENDS
E002	ELECTRICAL LIGHTING AND EQUIPMENT SCHEDULES
ED101	ELECTRICAL DEMOLITION PLAN
E101	ELECTRICAL LIGHTING PLAN
E201	ELECTRICAL POWER PLAN
E501	ELECTRICAL DETAILS
E510	LIGHTING CONTROL DETAILS
E601	ELECTRICAL SINGLE LINE DIAGRAM AND PANEL SCHEDULES
E701	ELECTRICAL SITE PLAN

WIRING DEVICE LEGEND

MOUNTING HEIGHT OF BACKBOX, RELATIVE TO BOTTOM OF BOX. IF OMITTED, DEFAULT MOUNTING HEIGHT IS 16"

XX<44" — XX INDICATES SPECIAL NOTE (IF USED)

DUPLEX

C	COMPUTER STATION (COORDINATE WITH CASEWORK)
EWC	ELECTRIC WATER COOLER
PR	PRINTER (ABOVE COUNTER)
TP	TAMPER RESISTANT
TV	TELEVISION
WP	GFI, WR RECEPTACLE WITH WEATHER PROOF ENCLOSURE

DOUBLE-DUPLEX

JX — JX INDICATES DEVICE DESIGNATION (IF USED)

JUNCTION BOX

CF	CEILING FAN
SN	SIGNAGE

FB# — FLOOR BOX
REFER TO FLOOR BOX SCHEDULE AND POWER PLANS FOR FLOOR BOX TYPES AND ADDITIONAL INFORMATION.

HD — HAND DRYER
PROVIDE ELECTRICAL CONNECTION FOR HAND DRYER. COORDINATE LOCATION AND REQUIREMENTS WITH EQUIPMENT PROVIDER.

PS — POWER SUPPLY FOR ELECTRIFIED HARDWARE
PROVIDE ELECTRICAL CONNECTION FOR POWER SUPPLY. COORDINATE LOCATION AND REQUIREMENTS WITH HARDWARE PROVIDER.

GFI	GFI		
GROUND FAULT PROTECTED	*GROUND FAULT PROTECTED, ABOVE COUNTER*	*ABOVE COUNTER*	*SPECIALTY RECEPTACLE*

FLOOR BOX SCHEDULE

GENERAL NOTES:

1) COORDINATE EXACT FLOOR BOX LOCATIONS AND FLOOR FINISHES WITH ARCHITECTURAL FLOOR PLANS FOR COMPLETELY FLUSH INSTALLATION.
2) ALL FLOOR BOX & POKE-THRU FINISHES TO BE SELECTED BY ARCHITECT.
3) CONDUIT:
A) COORDINATE QUANTITIES AND SIZE OF CONDUIT FOR POWER NEEDS WITH E200-SERIES SHEETS
B) COORDINATE CONDUIT FOR TECHNOLOGY CABLING WITH TECHNOLOGY CONSULTANT
C) ROUTE CONDUIT TO NEAREST INTERIOR WALL AND TO ADDITIONAL NEARBY FLOOR BOXES AS NEEDED
4) REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

TAG	POWER	TECHNOLOGY	GANG QUANTITY	SERVICE TYPE	MOUNTING STYLE	COVER STYLE	NOTES
FB1	1 QUAD	N/A	2 GANG	SINGLE	RECESSED	FLANGE COVER	
FB1	1 QUAD	N/A	2 GANG	SINGLE	RECESSED	FLANGE COVER	

WIRING METHODS LEGEND

WIRING METHODS GENERAL NOTES

1. THIS LEGEND PROVIDES AN OVERVIEW OF APPROVED WIRING METHODS FOR THIS PROJECT. REFER TO SPECIFICATION SECTION 260533 "RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS" FOR ADDITIONAL INFORMATION REGARDING SELECTION AND INSTALLATION OF CONDUITS AND BOXES.
2. UNFINISHED SPACES INCLUDE DEDICATED MECHANICAL, ELECTRICAL, AND TECHNOLOGY ROOMS ONLY. ALL OTHER SPACES SHALL BE CONSIDERED FINISHED, UNLESS NOTED OTHERWISE ON DRAWINGS.
3. CONDUITS FOR FEEDERS WHICH ARE SCHEDULED FOR UNDER SLAB INSTALLATION SHALL BE LOCATED A MINIMUM OF 2' BELOW FINISHED FLOOR. COORDINATE WITH ALL OTHER DISCIPLINES.
4. CONDUITS FOR BRANCH CIRCUITS ARE PERMITTED UNDER SLAB ONLY WHERE NOTED ON DRAWINGS OR INDICATED ON SPECIAL CONDITIONS SCHEDULE. CONDUIT ROUTING MUST BE COORDINATED WITH ALL OTHER DISCIPLINES AND BE CLEARLY IDENTIFIED ON AS-BUILT DRAWINGS.
5. COORDINATE ROUTING OF SURFACE RACEWAY SUCH THAT VERTICAL RUNS ARE MINIMIZED, AND RACEWAY DOES NOT RUN BEHIND PERMANENTLY-INSTALLED CASEWORK OR FURNITURE.

SPECIAL CONDITIONS SCHEDULE

APPLICATION	*SPECIAL CONDITION NOTES*
ADDITION & RENOVATION AREAS	DEVICE COVERS SHALL MATCH EXISTING

RACEWAY SELECTION SCHEDULE

APPLICATION	*IMC*	*RMC*	*EMT*	*MC CABLE*	*FMC*	*LFMC*	*RNC*	*SURFACE RACEWAY*
CONCEALED - CMU WALLS	X	X	X					
CONCEALED - METAL STUD PARTITIONS	X	X	X	X				
CONCEALED - CAST CONCRETE WALLS							X	
CONCEALED - ICF WALLS	X	X	X					
CONCEALED - ABOVE ACCESSIBLE CEILINGS	X	X	X	A, B	C, D	E		
CONCEALED - ABOVE INACCESSIBLE CEILINGS	X	X	X					
EXPOSED - INTERIOR FINISHED SPACES								F
EXPOSED - INTERIOR UNFINISHED SPACES	X	X	X		D	E		X
EXTERIOR - BELOW GRADE APPLICATIONS							X	
EXTERIOR - ABOVE GRADE APPLICATIONS	X	X				E		

RACEWAY APPLICATION NOTES

A. PERMITTED FOR CONNECTION TO AND BETWEEN LIGHT FIXTURES
B. PERMITTED FOR WHIP FROM HOMERUN JBOX TO BRANCH CIRCUIT RACEWAY. SHALL NOT BE USED FOR HOMERUNS.
C. PERMITTED FOR WHIP TO FIRE ALARM DEVICE
D. PERMITTED FOR FINAL CONNECTION TO MOTORIZED EQUIPMENT WITHIN PLENUM
E. PERMITTED FOR FINAL CONNECTION TO MOTORIZED EQUIPMENT NOT WITHIN PLENUM
F. PERMITTED WHERE INDICATED ON DRAWINGS OR WHERE EXISTING WALL CONSTRUCTION PROHIBITS THE USE OF CONCEALED RACEWAY

BOXES AND COVERS SELECTION SCHEDULE

APPLICATION	*OUTLET BOXES*	*CONDUIT BODIES*	*COVERS*
FINISHED SPACES - DEFAULT	SHEET METAL	CAST ALUMINUM	STAINLESS STEEL
UNFINISHED SPACES - DEFAULT	SHEET METAL	CAST ALUMINUM	STAINLESS STEEL
EXTERIOR - DEFAULT	GALVANIZED MALLEABLE IRON (NOTE A)	GALVANIZED MALLEABLE IRON (NOTE A)	CAST ALUMINUM

BOXES AND COVERS APPLICATION NOTES

A. CONDUIT SHALL ENTER FROM BOTTOM OR SIDE WHERE PRACTICAL. PROVIDE WATERTIGHT HUBS FOR CONDUIT CONNECTION.

ABBREVIATION LEGEND

GENERIC ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CM	CONSTRUCTION MANAGER
EC	ELECTRICAL CONTRACTOR
ED	EXISTING TO BE DEMOLISHED
EM	EMERGENCY
ER	EXISTING TO REMAIN
ERL	EXISTING TO BE RELOCATED
GC	GENERAL CONTRACTOR
NEC	NATIONAL ELECTRIC CODE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OH	OVERHEAD
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
WG	WIREGUARD
WP	WEATHERPROOF
WR	WEATHER RESISTANT

WIRING METHODS ABBREVIATIONS

AL	ALUMINUM
C	CONDUIT
CA	CAST ALUMINUM
CU	COPPER
EGC	EQUIPMENT GROUNDING CONDUCTOR
EMT	ELECTRICAL METALLIC TUBING
FMC	FLEXIBLE METALLIC CONDUIT
GALV	GALVANIZED
GEC	GROUNDING ELECTRODE CONDUCTOR
GMI	GALVANIZED MALLEABLE IRON
GND	GROUND
IMC	INTERMEDIATE METAL CONDUIT
LFMC	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT
LV	LOW VOLTAGE
MC	METAL CLAD CABLE
PVC 40	POLYVINYL CHLORIDE, SCHEDULE 40
RMC	RIGID METALLIC CONDUIT
RNC	RIGID NONMETALLIC CONDUIT
SM	SHEET METAL
ZP	ZINC PLATED

UNITS

A	AMPERE
AIC	AMPERE INTERRUPTING CAPACITY
CD	CANDELA
FC	FOOTCANDLE
HP	HORSEPOWER
KAIC	KILOAMPERE INTERRUPTING CAPACITY
LPF	LUMENS PER FOOT
V	VOLT
VA	VOLT-AMPERE
W	WATT

COMMON ELECTRICAL ABBREVIATIONS

BAS	BUILDING AUTOMATION SYSTEM
BM	BRANCH METER
CB	CIRCUIT BREAKER
DS	DISCONNECT SWITCH
EPO	EMERGENCY POWER OFF
EV	ELECTRIC VEHICLE
EVSE	ELECTRIC VEHICLE SUPPLY EQUIPMENT
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
GP	GENERATOR PANEL
HTP	HEAT TRACE PANEL
LOD	LOCK OUT DEVICE CAPABLE
LTS	LIGHTS
MCB	MAIN CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MM	MAINS METER
MRTS	MOTOR RATED TOGGLE SWITCH
OCPD	OVERCURRENT PROTECTIVE DEVICE
OM	OWNER'S METER
SE	SERVICE ENTRANCE
SPD	SURGE PROTECTIVE DEVICE
SUSE	SUITABLE FOR USE AS SERVICE ENTRANCE
TGB	TECHNOLOGY GROUND BAR
TR	TECHNOLOGY RACK
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
UM	UTILITY METER
UT	UTILITY TRANSFORMER
VFD	VARIABLE FREQUENCY DRIVE
XFMR	TRANSFORMER

GENERAL NOTES: - APPLIES TO ALL ELECTRICAL DRAWINGS

A. EC MAY COMBINE MULTIPLE CIRCUITS INTO HOME RUNS. NO MORE THAN 3 CIRCUITS SHALL BE IN EACH HOME RUN CONDUIT, AND THE WIRE MUST BE DERATED IN ACCORDANCE WITH NEC. THESE CIRCUITS SHALL BE REQUIRED TO BE ON SEPARATE PHASES (A,B,C).

B. EC SHALL UPSIZE WIRE IN LONG RUNS ACCORDING TO THE WIRE SIZING TABLE SHOWN BELOW:

WIRE SIZING CHART

RUN LENGTH		CIRCUIT BREAKER		
120V	277V	20A	30A	40A
000-100'	000-200'	12	10	8
101-150'	201-300'	10	8	6
151-200'	301-450'	8	6	4

C. WHERE ELECTRICAL LOAD ON A CIRCUIT IS OVER 20 AMPERES, EACH CIRCUIT SHALL BE RUN IN A SEPARATE CONDUIT TO THE PANELBOARD.

D. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL. EC SHALL NOT SHARE NEUTRALS FOR MULTI-WIRE BRANCH CIRCUITS.

E. ALL VAV BOXES, EXHAUST FANS, MOTORS, MISC. HVAC EQUIPMENT, APPLIANCES, ETC. INDICATED ON THESE DRAWINGS SHALL HAVE A MOTOR RATED SWITCH LOCATED NEAR THE MOTOR FOR SERVICING. PROVIDE DISCONNECTING MEANS AS REQUIRED BY THE NEC.

F. EMERGENCY CIRCUITS SHALL BE INSTALLED IN A SEPARATE CONDUIT SYSTEM.

G. ALL PANELBOARDS SHALL BE INSTALLED 72" AFF TO THE TOP OF THE PANEL. PROVIDE 10% SPARE CONDUITS (MINIMUM OF 4) TO ABOVE THE CEILING FOR FUTURE.

H. ALL DATA OUTLETS REQUIRE A MINIMUM OF 1" CONDUIT STUB TO ABOVE CEILING. PROVIDE A 3-1/2" DEEP BOX MINIMUM FOR ALL DATA OUTLETS.

I. HEIGHT DIMENSIONS SHOWN ON THIS PLAN ARE MEASURED FROM THE BOTTOM OF THE DEVICE. HORIZONTAL DIMENSIONS ARE MEASURED TO THE CENTER OF THE DEVICE OR GROUP OF DEVICES WHICH THE DIMENSION PERTAINS TO.

J. GROUPINGS OF DEVICES LOCATED ON THE SAME WALL AT THE SAME ELEVATION SHALL BE PLACED SO THAT THE HORIZONTAL DISTANCE BETWEEN DEVICES IS NO GREATER THAN 4". PROVIDE ADDITIONAL SUPPORTS AS REQUIRED.

K. FOR LIGHT FIXTURE MOUNTING DETAILS, SEE LIGHTING FIXTURE SCHEDULE, ON SHEET E001.

L. CONTRACTOR SHALL REVIEW EACH SUBMITTAL AND CHECK FOR COORDINATION WITH OTHER WORK OF THE CONTRACT AND FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES TO PRICE AND SCHEDULE AFFECTING ANY TRADE RESULTING FROM USE OF NON-BASIS OF DESIGN EQUIPMENT.

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ELECTRICAL LEGENDS

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LIGHTING FIXTURE SCHEDULE

ALTERNATE MANUFACTURES AND SUBSTITUTIONS:
A1 REFER TO SPECIFICATION SECTION 26 00 10 "SUPPLEMENTAL REQUIREMENTS FOR ELECTRICAL" FOR SUBSTITUTION AND COMPARABLE PRODUCT LIMITATIONS FOR ELECTRICAL FIXTURES AND EQUIPMENT.
A2 REFER TO SPECIFICATION SECTION 01 25 00 "SUBSTITUTION PROCEDURES" FOR SUBSTITUTION PROCEDURES AND FORMS.
A3 WHERE "APPROVED EQUALS" ARE LISTED, COMPARABLE PRODUCTS MAY BE SUBMITTED, ALONG WITH REQUEST FORM, PRIOR TO BIDDING.

GENERAL LIGHTING NOTES:
G1 REFER TO LIGHTING CONTROL SCHEMATICS AND LIGHTING CIRCUIT SCHEDULES ON E510 SERIES DRAWINGS.
G2 LUMINAIRE AND LENS FOR ALL LED LINEAR FIXTURES SHALL BE ONE PIECE FOR UP TO A 12FT RUN. RUNS EXCEEDING 12FT SHALL BE PROVIDED WITH SEGMENT JOINERS AND A CONTINUOUS LENS SUCH THAT THE LUMINAIRE APPEARS AS A SINGLE PIECE. PROVIDE 4' EMERGENCY SECTION(S) AS REQUIRED PER LIGHTING PLANS.

FIXTURE TYPE	FIXTURE BASIS OF DESIGN	ALTERNATE MANUFACTURERS	FIXTURE DESCRIPTION	FINISH	LENS DESCRIPTION	LAMP	LIGHT DISTRIBUTION	MIN LUMEN OUTPUT	COLOR TEMPERATURE	DRIVER	VOLTAGE	MAX WATTAGE	MOUNTING METHOD	TYPE COMMENTS
01 INTERIOR														
B42	LITHONIA CPANL	COLUMBIA NBT, DAY-BRITE 2FPZ, METALUX CGTX	RECESSED TROFFER, FLAT PANEL, STEEL CONSTRUCTION, DLC RATED, 2' x 4' x 2-1/4"	WHITE		LED	STANDARD	4000 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	38 VA	CEILING GRID	
B43	LITHONIA CPANL	COLUMBIA NBT, DAY-BRITE 2FPZ, METALUX CGTX	RECESSED TROFFER, FLAT PANEL, STEEL CONSTRUCTION, DLC RATED, 2' x 4' x 2-1/4"	WHITE		LED	STANDARD	4800 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	45 VA	CEILING GRID	
C62D	LITECONTROL 2L-P-D	CORELITE CL2, LUMENWERX VIA 2, LUX ILLUMINAIRE EOS 2.0	LINEAR PENDANT, DIRECT DISTRIBUTION, SOFT DIFFUSE LENS, 2" WIDE x 8' LONG	WHITE		LED	750 LPF DOWN	4500 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	39 VA	CABLE MOUNTED	REFER TO LIGHTING PLAN FOR MOUNTING HEIGHT
C62DE	LITECONTROL 2L-P-D	CORELITE CL2, LUMENWERX VIA 2, LUX ILLUMINAIRE EOS 2.0	LINEAR PENDANT, DIRECT DISTRIBUTION, SOFT DIFFUSE LENS, 10W EMERGENCY BATTERY, 2" WIDE x 8' LONG	WHITE		LED	750 LPF DOWN	4500 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	39 VA	CABLE MOUNTED	REFER TO LIGHTING PLAN FOR MOUNTING HEIGHT
C82	LITECONTROL 4L-P-ID	CORELITE CL4, LUMENWERX VIA 4, LUX ILLUMINAIRE EOS 4.0	LINEAR PENDANT, INDIRECT/DIRECT DISTRIBUTION, SOFT DIFFUSE LENS, 4" WIDE x 8' LONG	WHITE		LED	300 LPF UP, 750 LPF DOWN	8400 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	62 VA	CABLE MOUNTED	REFER TO LIGHTING PLAN FOR MOUNTING HEIGHT
C82E	LITECONTROL 4L-P-ID	CORELITE CL4, LUMENWERX VIA 4, LUX ILLUMINAIRE EOS 4.0	LINEAR PENDANT, INDIRECT/DIRECT DISTRIBUTION, SOFT DIFFUSE LENS, 10W EMERGENCY BATTERY, 4" WIDE x 8' LONG	WHITE		LED	300 LPF UP, 750 LPF DOWN	8400 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	62 VA	CABLE MOUNTED	REFER TO LIGHTING PLAN FOR MOUNTING HEIGHT
D42	PRESCOLITE LTR-4RD	GOTHAM IVO, LIGHTOLIER P4R, PORTFOLIO LD4C	RECESSED DOWN LIGHT, ROUND, 4" DIAMETER	WHITE	SEMI-SPECULAR	LED	STANDARD	1500 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	20 VA	CEILING RECESSED	
D43	PRESCOLITE LTR-4RD	GOTHAM IVO, LIGHTOLIER P4R, PORTFOLIO LD4C	RECESSED DOWN LIGHT, ROUND, 4" DIAMETER	WHITE	SEMI-SPECULAR	LED	STANDARD	2000 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	25 VA	CEILING RECESSED	
D43E	PRESCOLITE LTR-4RD	GOTHAM IVO, LIGHTOLIER P4R, PORTFOLIO LD4C	RECESSED DOWN LIGHT, ROUND, 7W EMERGENCY BATTERY, 4" DIAMETER	WHITE	SEMI-SPECULAR	LED	STANDARD	2000 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	25 VA	CEILING RECESSED	
D43SE	PRESCOLITE LTR-4RD	GOTHAM IVO, LIGHTOLIER P4R, PORTFOLIO LD4C	RECESSED DOWN LIGHT, 15 DEGREE SLOPED CEILING ADAPTER, ROUND, 7W EMERGENCY BATTERY, 4" DIAMETER	WHITE	SEMI-SPECULAR	LED	STANDARD	2000 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	25 VA	CEILING RECESSED	
EX3H	DUAL-LITE EVE	LITHONIA LQM, APPROVED EQUALS	EXIT SIGN, SINGLE FACE, RED LETTERS, THERMOPLASTIC, DIRECTIONAL ARROWS AS SHOWN ON PLANS, WHITE HOUSING, EMERGENCY BATTERY BACKUP WITH SELF-DIAGNOSTIC HARDWARE, DUAL LIGHT HEADS	WHITE		LED	N/A			N/A	120 V	10 VA	CEILING/WALL MOUNTED	WIRED TO UNSWITCHED CIRCUIT, REFER TO LIGHTING PLAN FOR MOUNTING HEIGHT
G41	PRESCOLITE LTC-4RD	LITHONIA LDN4, LIGHTOLIER C4, SSL SSC4	CYLINDRICAL PENDANT, CLEAR SEMI-SPECULAR REFLECTOR, 4" DIAMETER x 14" TALL	WHITE		LED	WIDE	1000 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	12 VA	PENDANT MOUNTED	REFER TO LIGHTING PLAN FOR MOUNTING HEIGHT
R48	LUMENWERX TOGO	APPROVED EQUALS	RING FIXTURE, CENTRAL AXIS SUSPENSION, 48" DIAMETER	SELECTED BY ARCHITECT		LED	STANDARD	2500 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	58 VA	CABLE MOUNTED	MOUNT AT 10'-6" AFF
02 EXTERIOR														
N1E	US OUTDOOR LIGHTING LCN12-WM	APPROVED EQUALS	EXTERIOR WALL LANTERN, ALUMINUM HOUSING, XCNA-UP ARM, 350MA LED	SELECTED BY ARCHITECT		LED	TYPE III MEDIUM	2000 lm	3000 K	LED DRIVER WITH 0-10V DIMMING	120 V	22 VA	WALL MOUNTED	MOUNT AT 8'-0" AFF, EC TO PROVIDE REMOTE EMERGENCY BATTERY, WIRE THROUGH TIMECLOCK LOCATED NEAR PANEL 'P1'
SW1	LITHONIA WDGE1	GARDCO WEDGE, MCGRAW-EDISON GEKKO, SPITZER PEAK JR	EXTERIOR WALL PACK, SINGLE PIECE ALUMINUM HOUSING, WEATHERPROOF, COLD WEATHER EMERGENCY BATTERY, 11" WIDE x 9" TALL	SELECTED BY ARCHITECT	ACRYLIC	LED	FORWARD THROW	1200 lm	3000 K	LED DRIVER	120 V	18 VA	WALL MOUNTED	MOUNT AT 8'-0" AFF, WIRE THROUGH TIMECLOCK LOCATED NEAR PANEL 'P1'

26-POWERED EQUIPMENT SCHEDULE

GENERAL NOTES:
A. COORDINATE ALL ELECTRICAL REQUIREMENTS, INCLUDING ROUGH-IN LOCATION, CONNECTION TYPE, AND POWER REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
B. WIRING TERMINATIONS TO EQUIPMENT SHALL BE DONE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
C. LOCATIONS OF DEVICES SHOWN ON DRAWINGS ARE SCHEMATIC IN NATURE. COORDINATE LOCATIONS WITH EQUIPMENT INSTALLER.
D. BRANCH WIRING TO EQUIPMENT SHALL BE COPPER.
E. CONNECTIONS, LOCAL DISCONNECTS, STARTERS, AND VFDS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC.

		STARTING MEANS				DISCONNECTING MEANS				ELECTRICAL						
MARK	DESCRIPTION	TYPE	PROVIDED BY	INSTALLED BY	LOCATION	TYPE	PROVIDED BY	INSTALLED BY	LOCATION	VOLTS	POLES	AMPS	OCP	PANEL	CIRCUIT	WIRING NOTES
DIV. 22																
EWH-1	WATER HEATER (ELECTRIC)	CONTROL PANEL	DIV. 22	DIV. 22	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	120 V	1	12.5 A	20.0 A	P1	10	
DIV. 23																
CU-1	CONDENSING UNIT (OUTDOOR)	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	240 V	2	25.5 A	40.0 A	P1	2,4	
CU-2	CONDENSING UNIT (OUTDOOR)	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	240 V	2	25.5 A	40.0 A	P1	6,8	
EF-1	EXHAUST FAN (CEILING)	N/A	N/A	N/A	N/A	MRTS	DIV. 26	DIV. 26	NEAR UNIT	120 V	1	0.6 A	15.0 A	P1	16	
AHU-1	FURNACE (INDOOR)	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	120 V	1	13.1 A	20.0 A	P1	12	
AHU-2	FURNACE (INDOOR)	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	120 V	1	13.1 A	20.0 A	P1	14	

LIGHTING CONTROL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
X	LIGHTING CONTROL DAYLIGHT SENSOR	CEILING MOUNTED

OCCUPANCY/VACANCY SENSOR

X INDICATES SENSOR TYPE OR SPECIAL NOTE. IF OMITTED, SENSOR IS DUAL FUNCTION OCCUPANCY/VACANCY SENSOR.

X
STEM INDICATES WALL MOUNTED AT 10'-0" AFF UNO

SENSOR TYPES
HB HIGH BAY
O OCCUPANCY ONLY
V VACANCY ONLY

WALL CONTROL STATION

SX INDICATES CONTROL STATION TYPE OR SPECIAL NOTE. IF OMITTED, CONTROL STATION IS SINGLE POLE SWITCH.

a/b/c INDICATES ZONE OF CONTROL. REFER TO DRAWINGS.

a
SX
b
c
LIGHTING SWITCH
OF "S" INDICATES NUMBER OF SWITCHES

CONTROL STATION TYPES
3 3 WAY
4 4 WAY
CS1 CONTROL STATION - ON/OFF/DIM
OS1 OCCUPANCY SENSOR
OS2 OCCUPANCY SENSOR - 2 POLE
OSD OCCUPANCY SENSOR - DIMMING

ASTRONOMIC TIME CLOCK

ATC
S

INTERMATIC EI-501-WLA SERIES OR ENGINEER APPROVED EQUAL.

UNIT SHALL BE CAPABLE OF INDEPENDENTLY CONTROLLING (1) LIGHTING CIRCUIT, WITH AUTOMATIC DAYLIGHT SAVINGS TIME. PROGRAM IN PRESENCE OF OWNER. UNIT SHALL TURN OFF LIGHTING BETWEEN MIDNIGHT AND 6 AM OR START OF BUILDING OCCUPIED HOURS.

LIGHTING FIXTURE LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A41 r	2'x4' RECESSED TROFFER	G41 r	CYLINDRICAL PENDANT
A21 r	2'x2' RECESSED TROFFER	CP1 r	LINEAR PENDANT
A11 r	1'x4' RECESSED TROFFER	D41 r	RECESSED DOWNLIGHT
EU2	DUAL HEAD EMERGENCY FIXTURE	EX1	EXIT SIGN

LIGHTING FIXTURE TAGS

1. CAPITAL LETTER WITH NUMBER DENOTES FIXTURE TYPE - REFER TO LIGHTING FIXTURE SCHEDULE.
2. SMALL LETTER DENOTES SWITCH LEG/RELAY NUMBER - REFER TO E100 SERIES SHEETS FOR TYPICAL ROOM LAYOUTS.

EMERGENCY LIGHTING FIXTURES

1. FIXTURES DENOTED WITH GRAY FILLED IN AREA SHALL PROVIDE EMERGENCY LIGHTING UPON LOSS OF NORMAL POWER.
2. FIXTURES DENOTED BY "NL" SHALL PROVIDE NORMAL-POWER EGRESS LIGHTING.
3. EXIT SIGN:
   - SHADED AREA DENOTES FACE
   - ARROW DENOTES ARROW DIRECTION
   - WHEN ON WALL, MOUNT NO HIGHER THAN 6" ABOVE TOP OF NEAREST DOORWAY

EXTERIOR LIGHTING FIXTURE TAGS

SAXX — LIGHT FIXTURE TYPE (REFER TO EXTERIOR FIXTURE SCHEDULE)
SPXX — LIGHT POLE TYPE (REFER TO EXTERIOR LIGHT POLE SCHEDULE)
CONCRETE BASE TYPE
POLE LENGTH (FT)

CONCRETE BASE TYPE LEGEND:
"A" = 3'-0" CONCRETE BASE (3/E701)
"P" = FLUSH CONCRETE BASE (4/E701)

MECHANICAL CONTROLS LEGEND

EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE CEILING IN EACH ROOM FOR MECHANICAL CONTROL DEVICES. REFER TO M-SERIES DRAWING SHEETS FOR EXACT LOCATIONS AND DETAILS.

(XX) XX INDICATES DEVICE DESIGNATION

C CARBON DIOXIDE SENSOR
CO CARBON MONOXIDE SENSOR
H HUMIDITY SENSOR
S BAS SPACE TEMPERATURE SENSOR
T THERMOSTAT
TH COMBINATION THERMOSTAT / HUMIDITY SENSOR
V VOC SENSOR

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ELECTRICAL LIGHTING AND EQUIPMENT SCHEDULES

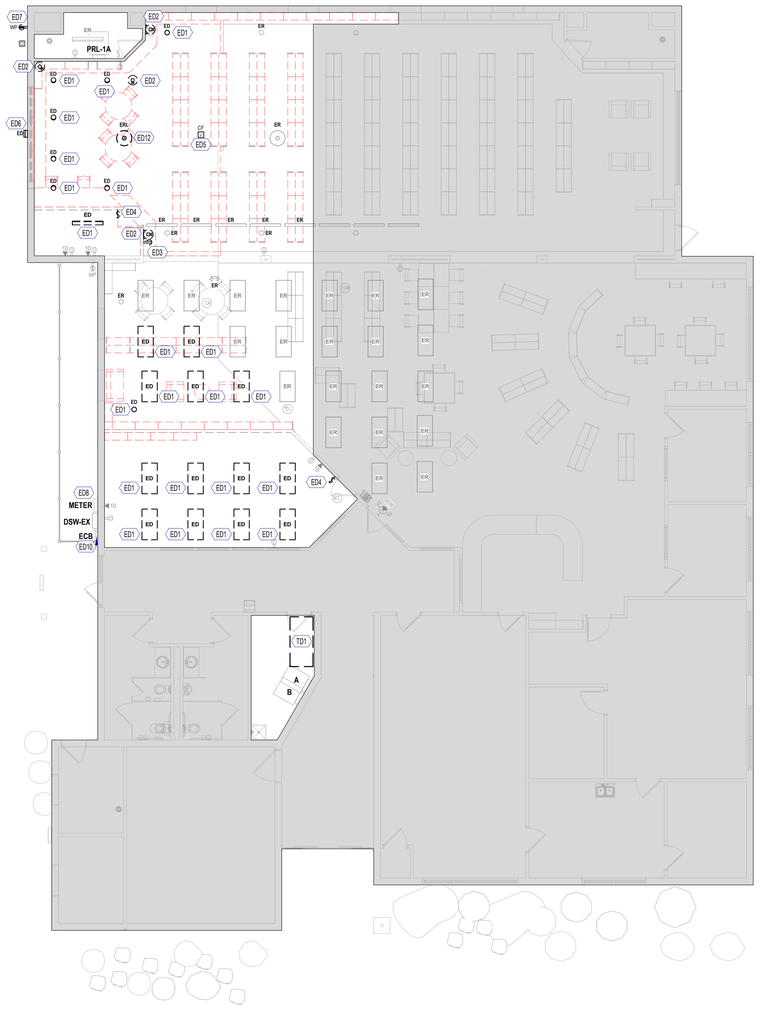
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1 FIRST FLOOR DEMOLITION PLAN
ED101
1/8" = 1'-0"

DEMOLITION DRAWING NOTES

A. DRAWING IS BASED ON FIELD OBSERVATIONS AND EXISTING DRAWINGS. NOTIFY CM OF DISCREPANCIES DUE TO ACTUAL FIELD CONDITIONS BEFORE PROCEEDING.

B. UNLESS NOTED OTHERWISE, ALL FIXTURES, DEVICES, AND EQUIPMENT DENOTED BY BOLD, DASHED LINE TYPE AND/OR LABELED 'ED' SHALL BE DEMOLISHED. ALL OTHERS, GENERALLY NOTED BY HALFTONE LINE TYPE AND/OR LABELED 'ER', SHALL BE PROTECTED AND MAINTAINED.

C. UNLESS NOTED OTHERWISE, ALL FIXTURES, DEVICES, AND EQUIPMENT LABELED 'ERL' SHALL BE REMOVED AND MAINTAINED FOR RELOCATION. REFER TO KEYNOTES AND NEW PLAN NOTES FOR ADDITIONAL REQUIREMENTS. WHERE KEYNOTES AND PLAN NOTES DO NOT INDICATE OTHERWISE, EXTEND EXISTING WIRING TO NEW DEVICE LOCATION.

D. REMOVE CONDUIT AND WIRING OF DEMOLISHED FIXTURES, DEVICES, AND EQUIPMENT BACK TO SERVING PANEL OR LAST ACTIVE DEVICE, UNLESS NOTED FOR REUSE. CONTRACTOR MAY REUSE CONDUIT PATHWAYS WHERE FEASIBLE.

E. WHERE CONDUIT IS LOCATED WITHIN EXISTING CAST-IN-PLACE CONCRETE, CMU BLOCKS, OR ANOTHER LOCATION WHERE REMOVAL IS NOT FEASIBLE, EXISTING CONDUIT SHALL BE CAPPED AND ABANDONED IN PLACE AFTER REMOVAL OF WIRING. PROVIDE BLANK COVERS FOR BOXES MADE AVAILABLE THROUGH DEMOLITION.

F. REFER TO SPECIFICATION SECTION 017419 FOR CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL REQUIREMENTS.

KEYNOTES

ED1 DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE. MAINTAIN BRANCH CIRCUIT WIRING FOR CONNECTION TO NEW. REFER TO LIGHTING PLAN FOR ADDITIONAL INFORMATION.

ED2 DISCONNECT AND REMOVE EXISTING CAMERA. FIXTURE TO BE TURNED OVER TO OWNER. VERIFY EXACT REQUIREMENTS WITH OWNER PRIOR TO WORK BEING DONE.

ED3 DISCONNECT AND REMOVE EXISTING RECEPTACLE. MAINTAIN BRANCH CIRCUIT WIRING FOR CONNECTION TO NEW. REFER TO POWER PLAN FOR ADDITIONAL INFORMATION.

ED4 DISCONNECT AND REMOVE EXISTING LIGHTING CONTROLS ALONG WITH WIRING.

ED5 DISCONNECT AND REMOVE EXISTING CEILING FAN ALONG WITH BRANCH CIRCUIT WIRING BACK TO LAST ACTIVE DEVICE. MAINTAIN CONTINUITY OF EXISTING CIRCUIT. VERIFY EXACT REQUIREMENTS IN FIELD.

ED6 DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE ALONG WITH BRANCH CIRCUIT WIRING BACK TO LAST ACTIVE DEVICE. MAINTAIN CONTINUITY OF EXISTING CIRCUIT. VERIFY EXACT REQUIREMENTS IN FIELD.

ED7 DISCONNECT AND REMOVE EXISTING RECEPTACLE ALONG WITH BRANCH CIRCUIT WIRING BACK TO LAST ACTIVE DEVICE. MAINTAIN CONTINUITY OF EXISTING CIRCUIT. VERIFY EXACT REQUIREMENTS IN FIELD.

ED8 DISCONNECT AND REMOVE EXISTING UTILITY CO. METER. VERIFY EXACT REQUIREMENTS WITH UTILITY CO. PRIOR TO WORK BEING DONE. REFER TO SITE PLAN FOR ADDITIONAL INFORMATION.

ED10 DISCONNECT AND REMOVE EXISTING ENCLOSED CIRCUIT BREAKER. VERIFY EXACT REQUIREMENTS IN FIELD.

ED12 DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE. SALVAGE FOR RELOCATION. REFER TO LIGHTING PLAN FOR ADDITIONAL INFORMATION.

TD1 EXISTING WALL MOUNTED TELECOM EQUIPMENT FRAME TO REMAIN. EQUIPMENT FRAME TO BE MODIFIED AS REQUIRED TO ACCEPT NEW CABLING.

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ROOM LIGHTING CONTROL SEQUENCE		
GENERAL NOTES: REFER TO LIGHTING CONTROL MATRIX ON SHEET E510 FOR CONTROL SEQUENCE OPERATION.		
NUMBER	**NAME**	**SEQUENCE**
001	PROGRAM ROOM	O1
001A	CHILDREN'S BOOK STACKS	CA1
003	WORKROOM	O1
004	TOILET	R1
005	CHILDREN'S SEATING	CA1
103	TEEN ROOM	O2
118	HISTORY ROOM	O1

26-DAYLIGHT CONTROL SCHEDULE

GENERAL NOTES:

1. FIXTURES LOCATED WITHIN DAYLIGHT ZONES SHALL BE AUTOMATICALLY AND PROPORTIONALLY DIMMED IN RESPONSE TO LIGHT LEVELS DETECTED BY THE DAYLIGHT SENSOR(S). PROVIDE ADDITIONAL WIRING AND CONTROL DEVICES AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.
2. FIXTURES LOCATED WITHIN DAYLIGHT ZONES SHALL OPERATE AS A SINGLE ZONE WITH ADJACENT LIGHT FIXTURES BUT SHALL INDEPENDENTLY RESPOND TO THE DAYLIGHT SENSOR(S).
3. FIXTURES LOCATED WITHIN EACH DAYLIGHT ZONE TYPE, AS INDICATED BY THE DAYLIGHT ZONE LEGEND, SHALL OPERATE INDEPENDENTLY OF FIXTURES IN OTHER DAYLIGHT ZONES. WHERE A FIXTURE IS LOCATED WITHIN TWO DAYLIGHT ZONE TYPES, IT SHALL BE CONSIDERED TO BE ONLY IN THE HIGHEST PRIORITY ZONE.
4. LIGHT FIXTURE RELAY NUMBERS ARE SHOWN FOR DESIGN INTENT ONLY. PROVIDE ADDITIONAL RELAYS AS REQUIRED BY OPERATIONAL INTENT OF DAYLIGHT ZONE(S).

ROOM NAME	DAYLIGHT CONTROL	DAYLIGHT HARVESTING		
		DIRECTION	MAINTAINED ILLUMINANCE	SURFACE
CHILDREN'S SEATING	Yes	SIDE LIGHT	45 FC	WORK SURFACE

DAYLIGHT ZONE LEGEND

REGION	DESCRIPTION	PRIORITY
	PRIMARY SIDELIGHTED DAYLIGHT ZONE	1
	SECONDARY SIDELIGHTED DAYLIGHT ZONE	2

GENERAL LIGHTING NOTES:

A. EXIT SIGNS SHALL BE CONNECTED AHEAD OF ALL SWITCHING. LIGHT FIXTURES DENOTED BY "NL" SHALL PROVIDE NORMAL-POWER EGRESS LIGHTING AND EMERGENCY LIGHTING UPON LOSS OF NORMAL POWER. REFER TO E510 SERIES DRAWINGS FOR CONTROL DETAILS.

B. RACEWAY FOR EXIT SIGNS MOUNTED AT LOCATIONS WITH GLAZING, SUCH AS CURTAINWALLS OR STOREFRONT, SHALL BE CONCEALED THROUGH THE MULLION.

C. WIRE ALL LIGHT FIXTURES THROUGH LOCAL LIGHTING CONTROLS AS REQUIRED. REFER TO E510 SERIES DRAWINGS FOR LIGHTING CONTROL DETAILS AND SEQUENCE OF OPERATIONS.

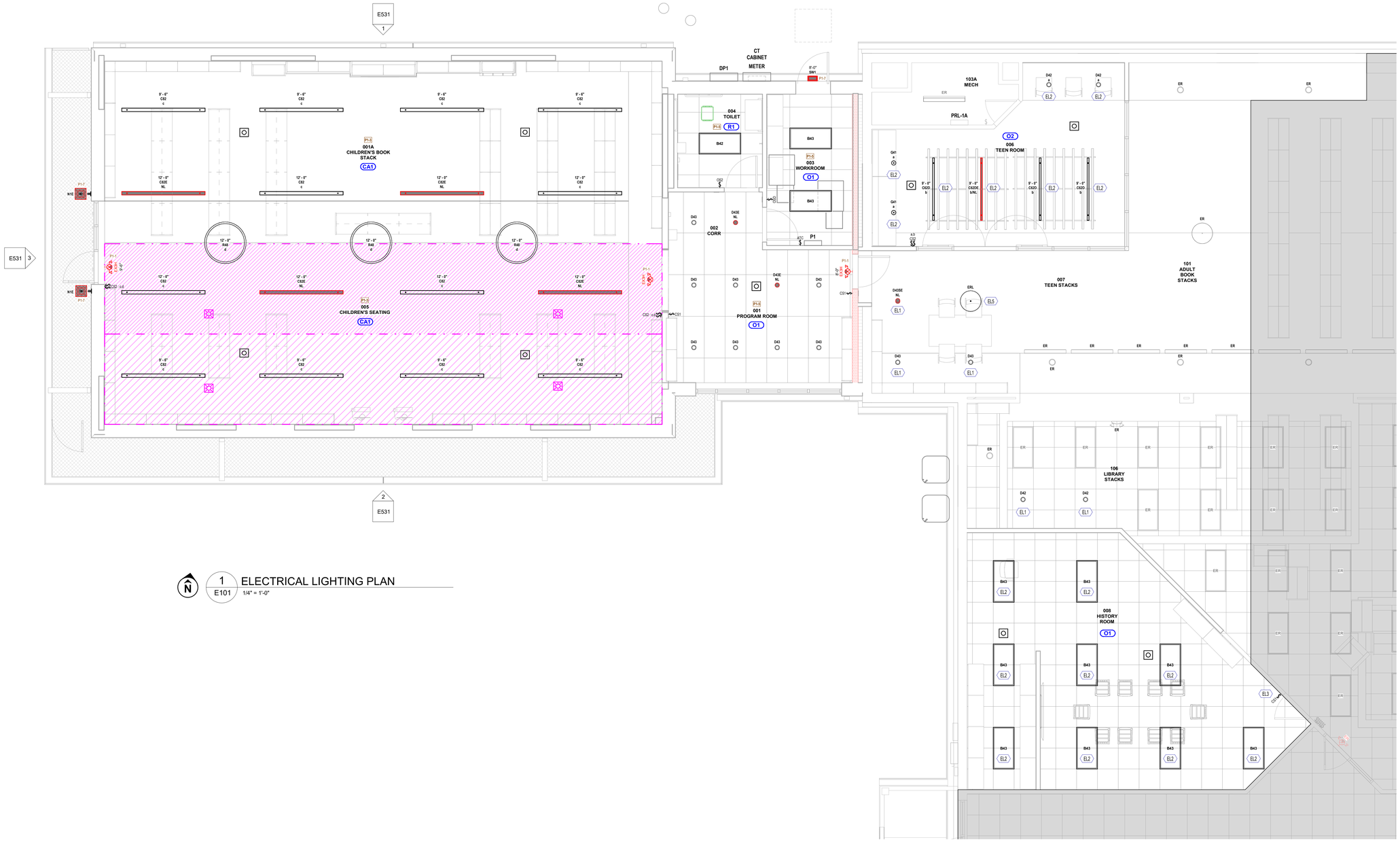
KEYNOTES

EL1 NEW LIGHTING FIXTURE TO BE CONNECTED TO EXISTING LIGHTING CIRCUIT IN AREA. EXTEND WIRING AS NECESSARY. WIRE THROUGH EXISTING LIGHTING CONTROLS. VERIFY EXACT REQUIREMENTS IN FIELD.

EL2 NEW LIGHTING FIXTURE TO BE CONNECTED TO EXISTING LIGHTING CIRCUIT IN AREA. EXTEND WIRING AS NECESSARY. WIRE THROUGH NEW LIGHTING CONTROLS.

EL3 NEW LIGHTING CONTROLS TO BE INSTALLED IN EXISTING BACKBOX MADE AVAILABLE THROUGH DEMOLITION. VERIFY EXACT REQUIREMENTS IN FIELD.

EL5 REUSE EXISTING LIGHTING FIXTURE MADE AVAILABLE THROUGH DEMOLITION. CONNECT FIXTURE TO EXISTING CIRCUIT MADE AVAILABLE THROUGH DEMOLITION.



1 E101 ELECTRICAL LIGHTING PLAN
1/4" = 1'-0"

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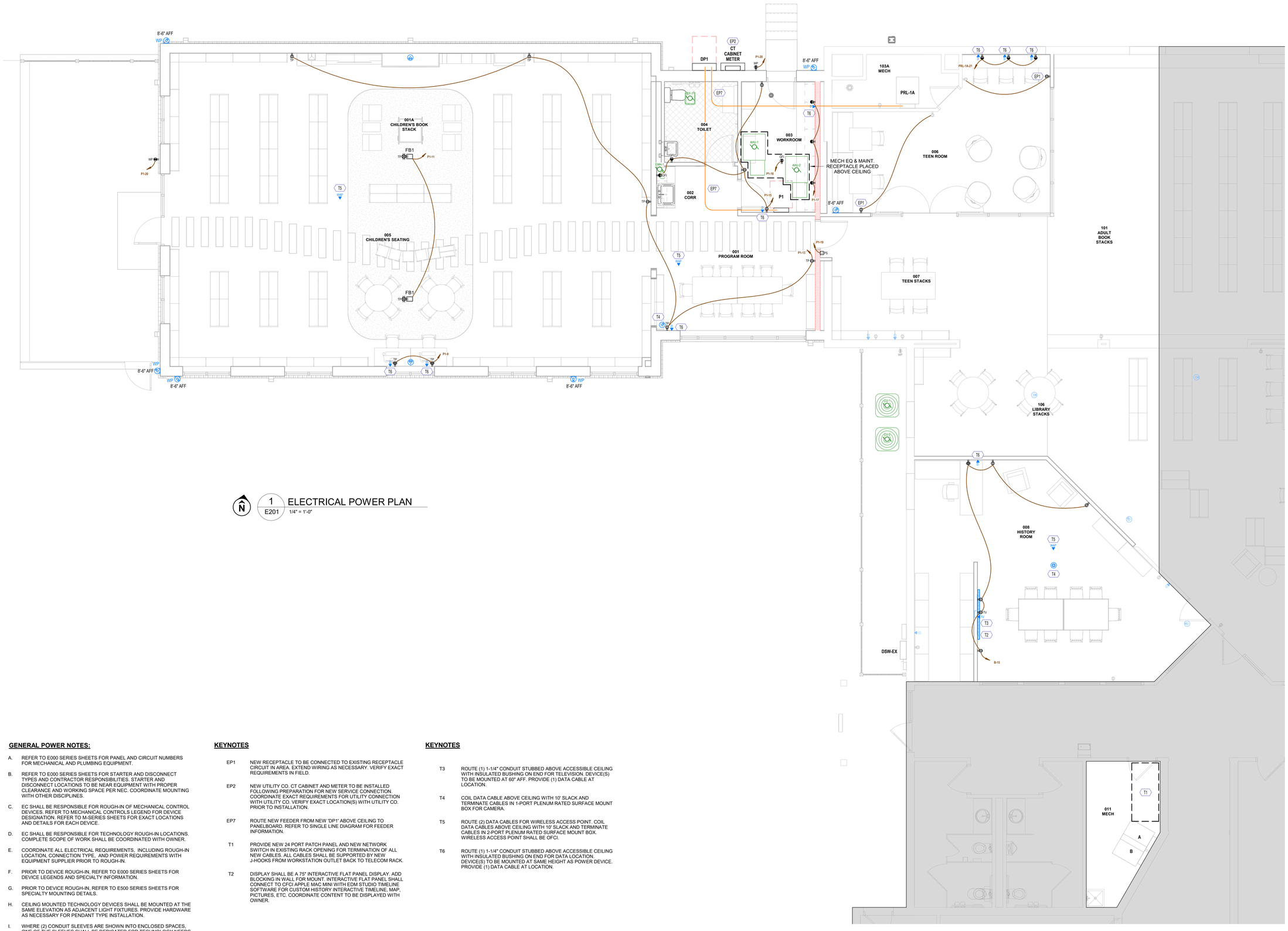
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0'-1" REFERENCE LINE



1 E201 ELECTRICAL POWER PLAN

1/4" = 1'-0"

GENERAL POWER NOTES:

A. REFER TO E000 SERIES SHEETS FOR PANEL AND CIRCUIT NUMBERS FOR MECHANICAL AND PLUMBING EQUIPMENT.

B. REFER TO E000 SERIES SHEETS FOR STARTER AND DISCONNECT TYPES AND CONTRACTOR RESPONSIBILITIES. STARTER AND DISCONNECT LOCATIONS TO BE NEAR EQUIPMENT WITH PROPER CLEARANCE AND WORKING SPACE PER NEC. COORDINATE MOUNTING WITH OTHER DISCIPLINES.

C. EC SHALL BE RESPONSIBLE FOR ROUGH-IN OF MECHANICAL CONTROL DEVICES. REFER TO MECHANICAL CONTROLS LEGEND FOR DEVICE DESIGNATION. REFER TO M-SERIES SHEETS FOR EXACT LOCATIONS AND DETAILS FOR EACH DEVICE.

D. EC SHALL BE RESPONSIBLE FOR TECHNOLOGY ROUGH-IN LOCATIONS. COMPLETE SCOPE OF WORK SHALL BE COORDINATED WITH OWNER.

E. COORDINATE ALL ELECTRICAL REQUIREMENTS, INCLUDING ROUGH-IN LOCATION, CONNECTION TYPE, AND POWER REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

F. PRIOR TO DEVICE ROUGH-IN, REFER TO E000 SERIES SHEETS FOR DEVICE LEGENDS AND SPECIALTY INFORMATION.

G. PRIOR TO DEVICE ROUGH-IN, REFER TO E500 SERIES SHEETS FOR SPECIALTY MOUNTING DETAILS.

H. CEILING MOUNTED TECHNOLOGY DEVICES SHALL BE MOUNTED AT THE SAME ELEVATION AS ADJACENT LIGHT FIXTURES. PROVIDE HARDWARE AS NECESSARY FOR PENDANT TYPE INSTALLATION.

I. WHERE (2) CONDUIT SLEEVES ARE SHOWN INTO ENCLOSED SPACES, ONE OF THE SLEEVES SHALL BE DEDICATED FOR TECHNOLOGY NEEDS ONLY.

KEYNOTES

EP1 NEW RECEPTACLE TO BE CONNECTED TO EXISTING RECEPTACLE CIRCUIT IN AREA. EXTEND WIRING AS NECESSARY. VERIFY EXACT REQUIREMENTS IN FIELD.

EP2 NEW UTILITY CO. CT CABINET AND METER TO BE INSTALLED FOLLOWING PREPARATION FOR NEW SERVICE CONNECTION. COORDINATE EXACT REQUIREMENTS FOR UTILITY CONNECTION WITH UTILITY CO. VERIFY EXACT LOCATION(S) WITH UTILITY CO. PRIOR TO INSTALLATION.

EP7 ROUTE NEW FEEDER FROM NEW 'DP1' ABOVE CEILING TO PANELBOARD. REFER TO SINGLE LINE DIAGRAM FOR FEEDER INFORMATION.

T1 PROVIDE NEW 24 PORT PATCH PANEL AND NEW NETWORK SWITCH IN EXISTING RACK OPENING FOR TERMINATION OF ALL NEW CABLES. ALL CABLES SHALL BE SUPPORTED BY NEW J-HOOKS FROM WORKSTATION OUTLET BACK TO TELECOM RACK.

T2 DISPLAY SHALL BE A 75" INTERACTIVE FLAT PANEL DISPLAY. ADD BLOCKING IN WALL FOR MOUNT. INTERACTIVE FLAT PANEL SHALL CONNECT TO CFCI APPLE MAC MINI WITH EDM STUDIO TIMELINE SOFTWARE FOR CUSTOM HISTORY INTERACTIVE TIMELINE, MAP, PICTURES, ETC. COORDINATE CONTENT TO BE DISPLAYED WITH OWNER.

KEYNOTES

T3 ROUTE (1) 1-1/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH INSULATED BUSHING ON END FOR TELEVISION. DEVICE(S) TO BE MOUNTED AT 60" AFF. PROVIDE (1) DATA CABLE AT LOCATION.

T4 COIL DATA CABLE ABOVE CEILING WITH 10' SLACK AND TERMINATE CABLES IN 1-PORT PLENUM RATED SURFACE MOUNT BOX FOR CAMERA.

T5 ROUTE (2) DATA CABLES FOR WIRELESS ACCESS POINT. COIL DATA CABLES ABOVE CEILING WITH 10' SLACK AND TERMINATE CABLES IN 2-PORT PLENUM RATED SURFACE MOUNT BOX. WIRELESS ACCESS POINT SHALL BE OFCI.

T6 ROUTE (1) 1-1/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH INSULATED BUSHING ON END FOR DATA LOCATION. DEVICE(S) TO BE MOUNTED AT SAME HEIGHT AS POWER DEVICE. PROVIDE (1) DATA CABLE AT LOCATION.

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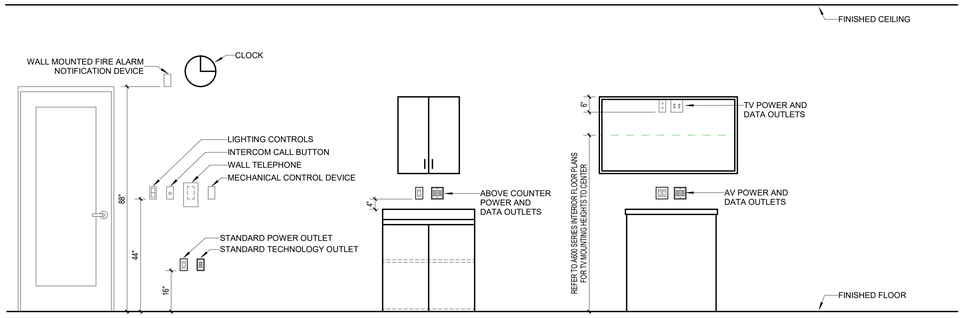
ELECTRICAL POWER PLAN

COMM NO. 2026032.01

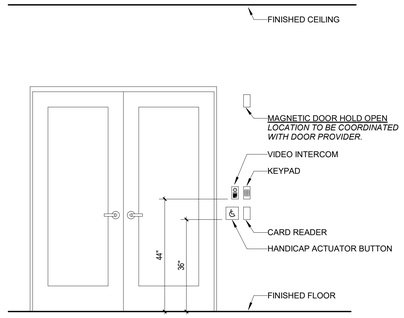
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0'-1" REFERENCE LINE



1 E501 TYPICAL DEVICE MOUNTING LOCATION



2 E501 TYPICAL ACCESS CONTROL MOUNTING LOCATIONS

GENERAL DEVICE MOUNTING NOTES:

A. EC SHALL REFER TO A600-SERIES DRAWINGS, A640-SERIES ELEVATIONS, AND F-SERIES DRAWINGS FOR ALL CASEWORK AND FURNITURE COORDINATION REQUIREMENTS. WHERE CUTOUTS IN CASEWORK ARE REQUIRED, EC SHALL COORDINATE EXACT LOCATION WITH CASEWORK PROVIDER.

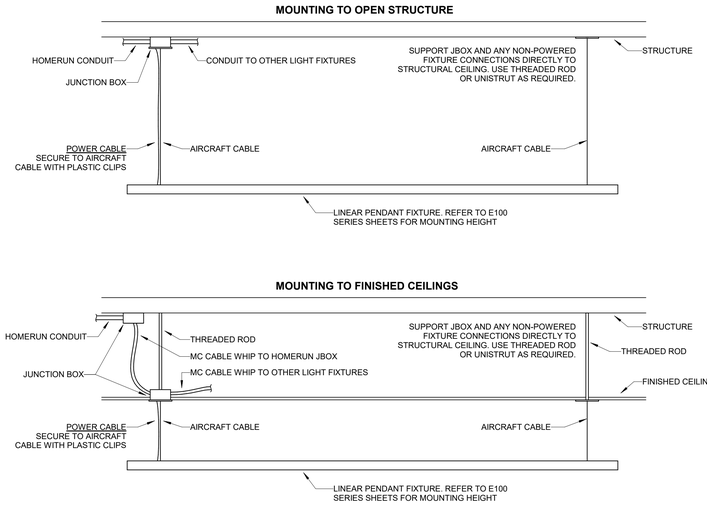
B. MOUNTING HEIGHTS FOR RECESSED J-BOXES INSTALLED IN CMU WALLS SHALL BE COORDINATED TO ALIGN WITH THE TOP EDGE OR BOTTOM EDGE OF THE BLOCK.

C. J-BOX LOCATIONS THAT SHIFT TO ALIGN WITH A CMU BLOCK SHALL BE INSTALLED NO CLOSER THAN 4" TO THE TOP OF A COUNTER OR BACKSPLASH AS SHOWN.

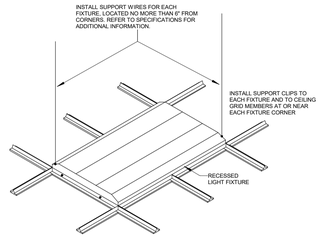
D. J-BOX LOCATIONS THAT SHIFT TO ALIGN WITH A CMU BLOCK SHALL BE COORDINATED TO NOT CONFLICT WITH CASEWORK INSTALLATION.

E. PROVIDE ADEQUATELY SIZED J-BOX EXTENSION RING(S) WHEN RECEPTACLES AND DATA OUTLETS ARE BEHIND CASEWORK. OUTLET FACEPLATE SHALL BE FLUSH WITH THE REAR OF CASEWORK PANEL.

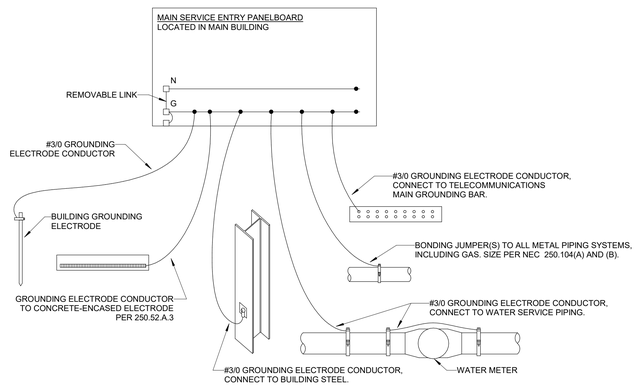
F. J-BOX LOCATIONS FOR RECEPTACLES, DATA DEVICES, CALL BUTTONS, TELEPHONES, LIGHTING CONTROLS, HVAC CONTROLS, AND OTHER DEVICES REQUIRING USER INTERFACE SHALL NOT BE LOCATED BEHIND DOOR SWINGS, UNLESS NOTED OTHERWISE.



3 E501 MOUNTING DETAIL - LINEAR PENDANT



4 E501 MOUNTING DETAIL - RECESSED FIXTURE IN GRID



5 E501 BUILDING GROUNDING

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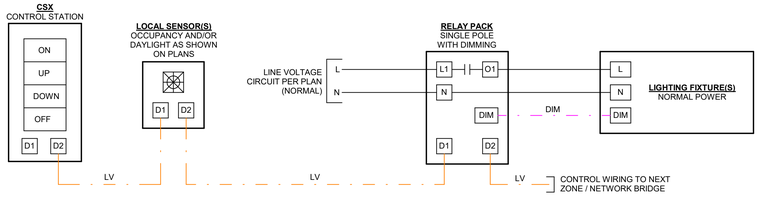
LIGHTING CONTROL MATRIX

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE MOTION SENSORS, ROOM CONTROLLERS, AND ACCESSORIES AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM. SYSTEM FUNCTIONALITY SHALL COMPLY WITH THE REQUIREMENTS OF THE OHIO ENERGY CODE. IT IS THE RESPONSIBILITY OF THE EC TO REVIEW MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN. PROVIDE ADDITIONAL ROOM CONTROLLERS/POWER PACKS AND ASSOCIATED WIRING FOR MULTIPLE SWITCH LEG LOCATIONS AS REQUIRED. SEE PLANS FOR EXACT SWITCH LEGS WITH-IN EACH AREA OR ROOM.
2. LOCATE AND AIM SENSORS IN THE CORRECT LOCATION REQUIRED FOR PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGE(S) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. HIGH BAY SENSORS SHALL BE PROVIDED WHEN SENSORS ARE MOUNTED ABOVE 12 FT.
3. COORDINATE QUANTITIES, LOCATIONS OF ALL LIGHTING CONTROLS OVERRIDES WITH OWNER PRIOR TO ROUGH-IN.
4. SPECIAL LIGHTING REQUIREMENTS:
   (NL) NIGHT LIGHTING SHALL BE SET TO NOT ALLOW PATH OF EGRESS TO DIM BELOW 1 FC.
   (EM) EMERGENCY LIGHTS SHALL BE BROUGHT TO FULL BRIGHTNESS IN THE EVENT OF POWER LOSS OR FIRE ALARM ACTUATION. PROVIDE UL 924 RELAY WITH REMOTE TEST AND EMERGENCY SPECIFIC PANELS AS REQUIRED.
5. REFER TO SHEET E101 FOR DAYLIGHT RESPONSE CONTROL INFORMATION.
6. REFER TO LIGHTING CONTROLS SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

XX#

SEQUENCE	TYPICAL AREA SERVED	WALL CONTROL		AUTOMATIC CONTROL				DAYLIGHT CONTROL	NOTES
		TYPE	SEQUENCE	TYPE	ACTIVATION	TIMEOUT	SCHEDULE		
CA1	CHILDREN'S AREA	CONTROL VOLTAGE	MULTI-ZONE ON / OFF / DIM	OCCUPANCY SENSOR	MANUAL	20 MIN	N/A	✓	
O1	HISTORY / PROGRAM + CORR / WORKROOM	CONTROL VOLTAGE	ON / OFF / DIM	OCCUPANCY SENSOR	MANUAL	20 MIN	N/A	✗	
O2	TEEN	CONTROL VOLTAGE	MULTI-ZONE ON / OFF / DIM	OCCUPANCY SENSOR	MANUAL	20 MIN	N/A	✗	
R1	INDIVIDUAL RESTROOM	CONTROL VOLTAGE	ON / OFF	OCCUPANCY SENSOR	AUTOMATIC	20 MIN	N/A	✗	RESTROOM EXHAUST FAN TO BE CONTROLLED WITH LIGHTING



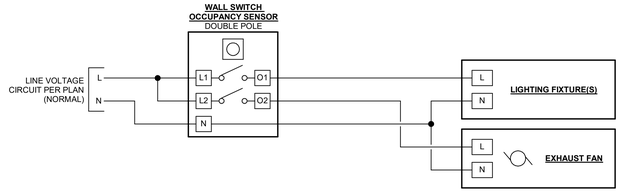
CSX SEQUENCE OF OPERATION

"ON" MODE (GENERAL ILLUMINATION)
WHEN OCCUPANT SELECTS THE "ON" MODE FROM EITHER CONTROL STATION, RELAY PACK(S) SHALL TURN ON ALL FIXTURES.

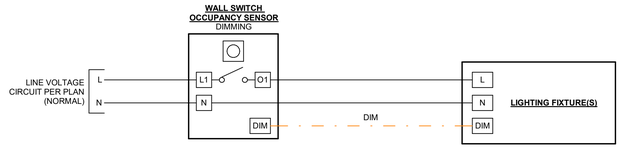
"OFF" MODE
WHEN OCCUPANT SELECTS THE "OFF" MODE FROM EITHER CONTROL STATION, RELAY PACK(S) SHALL TURN OFF ALL FIXTURES.

"DIMMING" MODE
ONCE FIXTURES ARE ON, OCCUPANT CAN RAISE/LOWER LIGHTING LEVEL WITH UP/DOWN BUTTONS.

1 E510 CONTROL DETAIL - CONTROL STATION CSX



3 E510 CONTROL DETAIL - WALL SWITCH OS2 - EXHAUST FAN



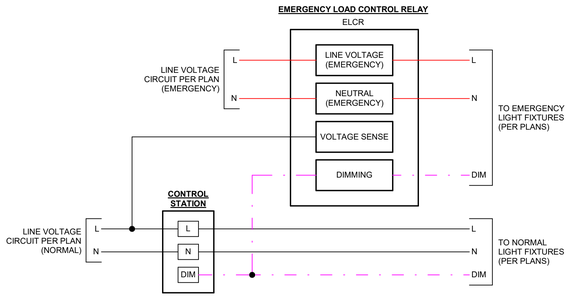
4 E510 CONTROL DETAIL - WALL SWITCH OSD - DIMMING

EGRESS LIGHTING CONTROL SCHEDULE

GENERAL NOTES:

1. ILLUMINATION LEVEL IN THE EGRESS PATH SHALL NOT BE LESS THAN 1 FOOTCANDLE. ADJUST LOWER CUTOFF AS REQUIRED.
2. OCCUPIED STATUS SHALL REVERT TO UNOCCUPIED UPON SENSOR OR TIMECLOCK TIMEOUT WHERE APPLICABLE. INTERIOR SPACES WITHOUT SENSORS SHALL BE CONSIDERED TO BE OCCUPIED STATUS AT ALL TIMES.
3. REFER TO LIGHTING CONTROL MATRIX FOR ADDITIONAL INFORMATION.

CONTROL STATUS	SENSOR STATUS	INTERIOR NORMAL LIGHT STATUS (NORMAL CONDITION)	INTERIOR EGRESS LIGHT STATUS (NORMAL CONDITION)	INTERIOR EGRESS LIGHT STATUS (EMERGENCY CONDITION)
ON	OCCUPIED	ON TO DIM LEVEL	ON TO DIM LEVEL	ON TO FULL OUTPUT
OFF	OCCUPIED	OFF	ON TO 50%	ON TO FULL OUTPUT
OFF	UNOCCUPIED	OFF	OFF	ON TO FULL OUTPUT



EMERGENCY LOAD CONTROL RELAY OPERATION

1. DURING NORMAL OPERATION, EMERGENCY FIXTURES CIRCUITED THROUGH AN ELCR CAN BE CONTROLLED VIA LOCAL LIGHTING CONTROLS ALONGSIDE NORMALLY POWERED FIXTURES WITHIN EACH SPACE, INCLUDING ON/OFF/DIMMING.
2. UPON LOSS OF NORMAL POWER AS DETECTED BY THE VOLTAGE SENSE CIRCUIT, THE ELCR WILL OVERRIDE THE CONTROL SIGNAL FROM THE LOCAL LIGHTING CONTROLS AND SET EMERGENCY FIXTURES TO 100% OUTPUT. THE EMERGENCY CONTROL RELAY SHALL FAIL TO 100% OUTPUT.
3. WHEN NORMAL POWER IS RESTORED, THE ELCR WILL ALLOW THE CONTROL SIGNAL FROM THE LOCAL CONTROLS TO BE ACTIVE AGAIN.
4. VOLTAGE SENSE SHALL BE CONNECTED TO THE NORMAL LIGHTING CIRCUIT SERVING THE NORMAL LIGHTING FIXTURES IN THE SAME ROOM OR CONTROL ZONE AS THE EMERGENCY LIGHTING FIXTURES. SENSING OTHER CIRCUITS OR FEEDERS IS NOT ACCEPTABLE.

2 E510 LIGHTING CONTROL DETAIL - EMERGENCY LOAD CONTROL RELAY

LIGHTING CONTROL STATION DETAILS



GENERAL OPERATION REQUIREMENTS

MULTIPLE ZONE CONTROL
LIGHTING SHALL BE CONTROLLED BY LOW VOLTAGE CONTROL STATIONS AND LOCAL SENSORS (OCCUPANCY AND DAYLIGHT). CONTROL STATIONS SHALL BE CAPABLE OF CONTROLLING "X" NUMBER OF INDEPENDENT ZONES, AS DETERMINED BY MARK CSX.

SINGLE ZONE CONTROL
LIGHTING SHALL BE CONTROLLED BY LOW VOLTAGE CONTROL STATIONS AND LOCAL OCCUPANCY SENSORS. ENTIRE AREA SHALL OPERATE AS A SINGLE ZONE.

OPERATION REQUIREMENTS, PER ZONE

"ON" MODE (GENERAL ILLUMINATION)
WHEN OCCUPANT SELECTS THE "ON" MODE, RELAY PACK(S) SHALL TURN ON ALL FIXTURES TO A PRESELECTED DIMMING LEVEL (I.E. 75% FULL OUTPUT) AS DETERMINED BY OWNER DURING FINAL PROGRAMMING.

FURTHER ADJUSTMENTS TO DIMMING LEVEL CAN BE MADE BY PRESSING AND HOLDING THE "ON" OR "OFF" BUTTONS.

"OFF" MODE
WHEN OCCUPANT SELECTS THE "OFF" MODE, RELAY PACK(S) SHALL TURN OFF ALL FIXTURES EXCEPT FOR FIXTURES DESIGNATED "NL". REFER TO EGRESS LIGHTING SCHEDULE FOR DETAILS.

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LIGHTING CONTROL DETAILS

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E510

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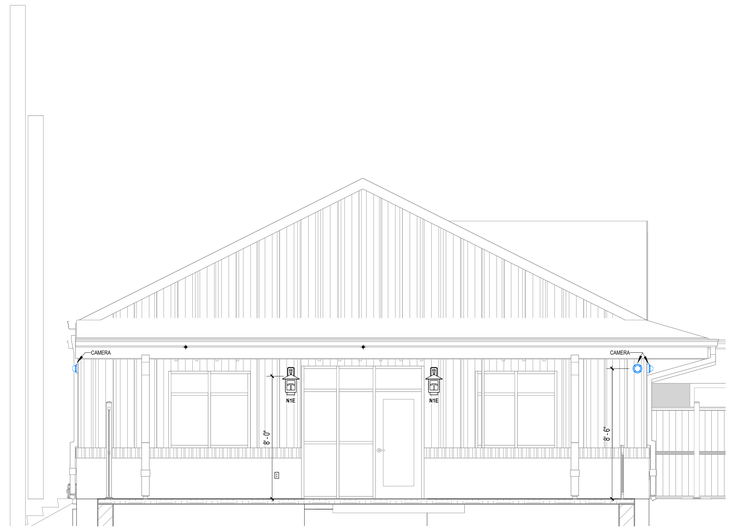
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1 E531 EXTERIOR ELEVATION - NORTH
1/4" = 1'-0"



2 E531 EXTERIOR ELEVATION - SOUTH
1/4" = 1'-0"



3 E531 EXTERIOR ELEVATION - WEST
1/4" = 1'-0"

GENERAL NOTES: ELEVATIONS

A. REFER TO E100 SERIES SHEETS FOR LIGHT FIXTURE RELAY NUMBERS AND CIRCUITS.

B. REFER TO E200 SERIES SHEETS FOR SECURITY CAMERA, WAP, AND PA SPEAKER QUANTITIES AND TYPES, AND RECEPTACLE HEIGHTS AND CIRCUITS.

C. REFER TO E000 SERIES AND E501 SHEETS FOR TYPICAL DEVICE MOUNTING HEIGHTS.

D. DEVICES WITHIN THE SAME BRICK BAND ARE TO BE VERTICALLY ALIGNED AND CENTERED WITHIN THE BAND.

E. WHERE REQUIRED, PROVIDE ADDITIONAL BACKBOARD FOR MOUNTING TO BOARD-AND-BATTEN EXTERIOR SIDING. BACKBOARD SHALL BE FLUSH MOUNTING FOR LIGHT FIXTURES AND CAMERAS.

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ELECTRICAL EXTERIOR ELEVATIONS

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SINGLE LINE DIAGRAM SYMBOL LEGEND

GENERAL NOTES:

1. SYMBOLS IN THIS LEGEND MAY NOT ALL APPEAR IN THE DRAWINGS.
2. NOT ALL EQUIPMENT OPTIONS AND REQUIREMENTS ARE INDICATED ON THE SINGLE LINE DIAGRAM.
3. REFER TO DIV. 26 SPECIFICATION SECTIONS FOR DETAILED REQUIREMENTS FOR ELECTRICAL DISTRIBUTION INFRASTRUCTURE.
4. INFORMATION ABOUT EXISTING EQUIPMENT IS BASED ON EXISTING DRAWINGS AND FIELD OBSERVATIONS.
5. EXISTING FEEDER CONDUCTORS ARE ASSUMED TO BE COPPER.
6. ALL EQUIPMENT OUTSIDE OF "NEW WORK" SCOPE BOXES IS FOR REFERENCE ONLY.

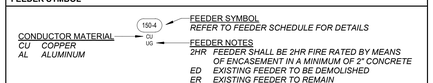
OPTIONS AND ABBREVIATIONS:

2N	200% NEUTRAL
FTL	FEED THRU LUGS
GF	GROUND FAULT PROTECTION
PLP	PHASE LOSS PROTECTION
SE	SERVICE ENTRY RATED
SM	INTEGRAL MAINS SUBMETERING
SPD	INTEGRAL SURGE PROTECTION DEVICE
ST	SHUNT TRIP MAIN BREAKER
UM	UTILITY METERING

GENERIC SYMBOLS

20A 1P	CIRCUIT BREAKER *TRIP RATING* *NUMBER OF POLES*	20A 1P	SWITCH *SWITCH RATING* *NUMBER OF POLES*
FCx kA	CALCULATED FAULT CURRENT POINT	20A	FUSE *TRIP RATING*
	ELECTRIC MOTOR		EQUIPMENT GROUND

FEEDER SYMBOL



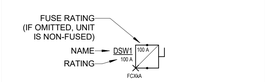
CONDUCTOR MATERIAL
CU COPPER
AL ALUMINUM

FEEDER SYMBOL
REFER TO FEEDER SCHEDULE FOR DETAILS

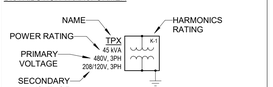
FEEDER NOTES
2HR FEEDER SHALL BE 2HR FIRE RATED BY MEANS OF ENCASEMENT IN A MINIMUM OF 2" CONCRETE
ED EXISTING FEEDER TO BE DEMOLISHED
ER EXISTING FEEDER TO REMAIN
UG UNDERGROUND

SPECIFIC EQUIPMENT

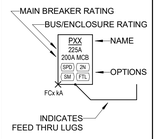
DISCONNECT SWITCH



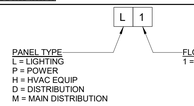
DISTRIBUTION TRANSFORMER



PANELBOARD



PANEL NAMING CONVENTION



FEEDER SCHEDULE

FEEDER TAG	CONDUCTOR MATERIAL	PARALLEL SETS	FEEDER CONDUCTORS QTY	FEEDER CONDUCTORS SIZE	EGC SIZE	CONDUIT SIZE
200-3	CU	1	3	#3/0	#6	2"
400-3	CU	1	3	500 KCMIL	#3	3"
600-3S	CU	2	3	350 KCMIL	N/A	2 1/2"

ELECTRICAL SERVICE CALCULATIONS

MODIFICATIONS TO AN EXISTING SERVICE

EXISTING BUILDING LOADS

PEAK 12-MONTH DEMAND	22.9 kW
ADD 25% (PER NEC 220.87)	5.8 kW
TOTAL EXISTING DEMAND LOAD:	**28.7 kW**

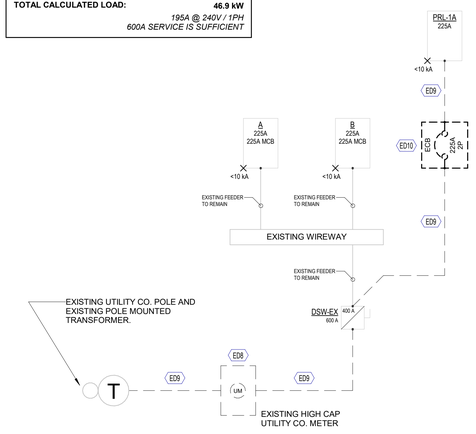
NEW BUILDING ADDITION LOADS
BUILDING ADDITION AREA: 2,500sf

UTILITY POWER	4 kW
LIGHTING	2 kW
MECHANICAL	12.2 kW
TOTAL NEW CALCULATED LOAD:	**18.2 kW**
TOTAL CALCULATED LOAD:	**46.9 kW**

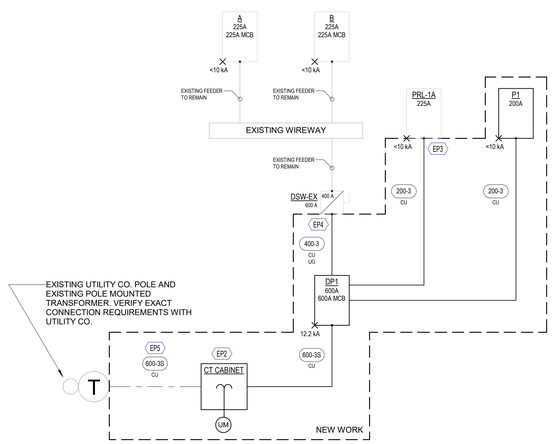
195A @ 240V / 1PH
600A SERVICE IS SUFFICIENT

POWER SYSTEMS STUDIES
CONTRACTOR TO PERFORM FAULT-CURRENT AND ARC-FLASH STUDIES PER SPECIFICATION SECTION 26 05 73 "POWER SYSTEM STUDIES". STUDIES SHALL BE PERFORMED FROM POINT OF SERVICE ENTRY TO EACH PANELBOARD LOCATION. HAZARD LABELS SHALL BE APPLIED TO EQUIPMENT PER SPECIFICATION SECTION REQUIREMENTS. WHERE EXISTING BREAKERS SCHEDULED TO REMAIN ARE INSUFFICIENTLY RATED FOR THE CALCULATED FAULT CURRENT, REPLACE WITH NEW.

CIRCUIT SCHEDULES
CONTRACTOR SHALL, UPON COMPLETION OF WORK, PROVIDE UPDATED CIRCUIT SCHEDULES FOR ALL EXISTING AND NEW PANELBOARDS. NEW SCHEDULES SHALL ACCURATELY REFLECT INSTALLED CONDITION.



1 E601 ELECTRICAL SINGLE LINE DIAGRAM - DEMO



2 E601 ELECTRICAL SINGLE LINE DIAGRAM - NEW

Panelboard: B

Location: Space 33 **Volts:** 240/120V **A.I.C. Rating:** EXISTING
Supply From: DP1 **Phases:** 1 **Mains Type:** MCB
Mounting: Wall Mounted **Wires:** 3 **Panel Rating:** 225.0 A
Enclosure: NEMA 1

CKT	Circuit Description	Device Notes	Trip	Poles	A		B		Poles	Trip	Device Notes	Circuit Description	CKT
1	EX - DEDICATED RECEP	EB/LOD	20	1	180	200			1	20	EB	EX - LIGHTS	2
3	EX - DEDICATED RECEP	EB/LOD	20	1			180	200	1	20	EB	EX - LIGHTS	4
5	EX - DEDICATED RECEP	EB	20	1	180	200			1	20	EB	EX - LIGHTS	6
7	EX - DEDICATED RECEP	EB/LOD	20	1			180	100	1	20	EB	EX - LIGHTS & EAST NL - EM	8
9	EX - DEDICATED RECEP	EB/LOD	20	1	180	200			1	20	EB/LOD	EX - LIGHTS	10
11	EX - LIGHTS - EM - RM 115	EB	20	1			200	100	1	20	EB	EX - LIGHTS & WEST NL - EM	12
13	EX - RECEP & BOOKDROP LIGHT	EB	20	1	230	200			1	20	EB	EX - PHOTOCELL	14
15	R - HISTORY ROOM - TV, COMPUTER	EB	20	1			1260	600	1	20	EB	EX - RR LIGHTS, RECEP, MECH LIGHTS	16
17	EX - DEDICATED RECEP	EB	20	1	180	180			1	20	EB	EX - WATER FOUNTAIN RECEP	18
19	EX - DEDICATED RECEP	EB	20	1			180	180	1	20	EB	EX - DEDICATED RECEP	20
21	EX - REC RM 110 + BREAKROOM	EB	20	1	600	180			1	20	EB	EX - DEDICATED DESK RECEP	22
23	EX - LIGHTS	EB	20	1			200	180	1	20	EB	EX - DESK RECEP	24
25	EX - DEDICATED RECEP	EB	20	1	180	300			1	20	EB	EX - HALL LIGHTS + EM LIGHT 106	26
27	EX - RECEP	EB	20	1			180	180	1	20	EB	EX - DEDICATED RECEP	28
29	EX - MECH RECEP	EB	20	1	180	180			1	20	EB	EX - DEDICATED RECEP	30
31	EX - HVAC-6 FURNACE	EB	20	1			948	300	1	20	EB	EX - LIGHTS - RM 125 & 126, EXT LIGHT	32
33	EX - HVAC-6 AC UNIT	EB	20	2	1200	1500			1	20	EB	EX - WOMENS RR HEATER	34
35							1200	--	1	--		SPACE	36
37	SPACE		--	1	--	--			1	--		SPACE	38
39	SPACE		--	1			--	--	1	--		SPACE	40
41	SPACE		--	1	--	--			1	--		SPACE	42
				Total Load:	6250 VA		6368 VA						
				Total Amps:	52.1 A		53.1 A						

DEVICE ABBREVIATION LEGEND:	DEVICE NOTES LEGEND:	Panel Totals	
L = LIGHTS	GFI = GFI BREAKER, IF UNAVAILABLE SUBSTITUTE WITH GFI RELAY MODULE		
R = RECEPTACLES	LOD = LOCK ON/OFF DEVICE	**Total Conn. Load:**	12618 VA
M = MECHANICAL EQUIPMENT	SPD = SURGE PROTECTION DEVICE	**Total Est. Demand:**	12618 VA
P = PLUMBING EQUIPMENT	BM = BRANCH CIRCUIT LEVEL METERING	**Total Conn. Current:**	52.6 A
	EB = EXISTING BREAKER	**Total Est. Demand Current:**	52.6 A

Notes:
EXISTING PANEL

EXISTING EQUIPMENT INSPECTION

EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT THAT WILL BE MODIFIED WITHIN PROJECT SCOPE SHALL BE INSPECTED PRIOR TO COMMENCEMENT OF WORK. PERFORM INSPECTIONS AS INDICATED BELOW:

A. VISUALLY INSPECT EQUIPMENT ENCLOSURE AND LOCATION. IDENTIFY PHYSICAL DAMAGE (CORROSION, RUST, MISSING HARDWARE), MISSING LABELS, AND IMPROPER CLEARANCE.

B. VISUALLY INSPECT WIRING, BUS, CABLES, AND CONNECTIONS. IDENTIFY PHYSICAL DAMAGE AND SIGNS OF OVERHEATING.

C. INSPECT THE QUALITY OF BOLTED BUS CONNECTIONS, CONDUCTOR TERMINATIONS, AND CONDUCTOR CONNECTORS USING ONE OF THE APPROVED METHODS DESCRIBED IN NFPA 70B ARTICLE 7.2. IDENTIFY ANY DEFICIENCIES.

D. OPERATE ALL CIRCUIT BREAKERS AND SWITCHES. IDENTIFY ANY MECHANICAL ISSUES.

DEFICIENCIES SHALL BE COMPILED INTO A COMPREHENSIVE LIST, ALONG WITH PROPOSED CORRECTIVE ACTION. PROVIDE DEFICIENCIES REPORT TO SHP AND OWNER FOR REVIEW.

KEYNOTES

ED8 DISCONNECT AND REMOVE EXISTING UTILITY CO. METER. VERIFY EXACT REQUIREMENTS WITH UTILITY CO. PRIOR TO WORK BEING DONE. REFER TO SITE PLAN FOR ADDITIONAL INFORMATION.

ED9 DISCONNECT AND REMOVE EXISTING FEEDER CONDUIT AND WIRING. VERIFY EXACT REQUIREMENTS IN FIELD.

ED10 DISCONNECT AND REMOVE EXISTING ENCLOSED CIRCUIT BREAKER. VERIFY EXACT REQUIREMENTS IN FIELD.

EP2 NEW UTILITY CO. CT CABINET AND METER TO BE INSTALLED FOLLOWING PREPARATION FOR NEW SERVICE CONNECTION. COORDINATE EXACT REQUIREMENTS FOR UTILITY CONNECTION WITH UTILITY CO. VERIFY EXACT LOCATION(S) WITH UTILITY CO. PRIOR TO INSTALLATION.

EP3 CONNECT NEW FEEDER TO EXISTING PANELBOARD. COORDINATE EXACT ROUTING THROUGH EXISTING BUILDING IN FIELD. REFER TO POWER PLAN FOR APPROXIMATE FEEDER ROUTING.

EP4 CONNECT NEW FEEDER TO EXISTING DISCONNECT SWITCH. REFER TO SITE PLAN FOR DETAILS.

EP5 UNDERGROUND CONDUIT FROM UTILITY POLE TO CT CABINET LOCATED ON BUILDING. COORDINATE EXACT REQUIREMENTS FOR UTILITY CONNECTION WITH UTILITY COMPANY.

Panelboard: PRL-1A

Location: MECH 103A **Volts:** 240/120V **A.I.C. Rating:** EXISTING
Supply From: DP1 **Phases:** 1 **Mains Type:** MLO
Mounting: Wall Mounted **Wires:** 3 **Panel Rating:** 225.0 A
Enclosure: NEMA 1

CKT	Circuit Description	Device Notes	Trip	Poles	A		B		Poles	Trip	Device Notes	Circuit Description	CKT
1	EX - LIGHTS - RM 102	EB	20	1	200	200			1	20	EB	EX - LIGHTS - RM 103	2
3	EX - RECEPS - RM - 104	EB	20	1			360	300	1	20	EB	EX - PENDANT LIGHTS	4
5	EX - CAN LIGHTS - SOUTH SOFFIT	EB	20	1	300	500			1	20	EB	EX - CEILINGS FANS AND CANS	6
7	EX - CAN LIGHTS - NORTH SOFFIT	EB	20	1			300	360	1	20	EB	EX - RECEPS - RM - 102	8
9	EX - LIGHTS - RM 104	EB	20	1	200	948			1	20	EB	EX - FURNACE RM 103	10
11	EX - RECEPS - RM - 103	EB	20	1			360	948	1	20	EB	EX - FURNACE RM 104	12
13	EXISTING CIRCUIT	EB	20	2	1176	1176			2	20	EB	EXISTING CIRCUIT	14
15							1176	1176					16
17	EX - AC UNIT	EB	40	2	3024	3024			2	40	EB	EX - AC UNIT	18
19							3024	3024					20
21	R - TEEN ROOM - ABOVE COUNTER	EB	20	1	540	300			1	20	EB	EX - PARKING LOT POLE LIGHTS	22
23	EX - SPARE	EB	20	1			0	0	1	20	EB	EX - SPARE	24
25	SPACE		--	1	--	--			1	--		SPACE	26
27	SPACE		--	1			--	--	1	--		SPACE	28
29	SPACE		--	1	--	--			1	--		SPACE	30
31	SPACE		--	1			--	--	1	--		SPACE	32
33	SPACE		--	1	--	--			1	--		SPACE	34
35	SPACE		--	1			--	--	1	--		SPACE	36
37	SPACE		--	1	--	--			1	--		SPACE	38
39	SPACE		--	1			--	--	1	--		SPACE	40
41	SPACE		--	1	--	--			1	--		SPACE	42
				Total Load:	11588 VA		11028 VA						
				Total Amps:	96.6 A		91.9 A						

DEVICE ABBREVIATION LEGEND:	DEVICE NOTES LEGEND:	Panel Totals	
L = LIGHTS	GFI = GFI BREAKER, IF UNAVAILABLE SUBSTITUTE WITH GFI RELAY MODULE		
R = RECEPTACLES	LOD = LOCK ON/OFF DEVICE	**Total Conn. Load:**	22616 VA
M = MECHANICAL EQUIPMENT	SPD = SURGE PROTECTION DEVICE	**Total Est. Demand:**	22616 VA
P = PLUMBING EQUIPMENT	BM = BRANCH CIRCUIT LEVEL METERING	**Total Conn. Current:**	94.2 A
	EB = EXISTING BREAKER	**Total Est. Demand Current:**	94.2 A

Notes:
EXISTING PANEL

Panelboard: DP1

Location: **Volts:** 240/120V **A.I.C. Rating:** 14,000
Supply From: **Phases:** 1 **Mains Type:** MCB
Mounting: Wall Mounted **Wires:** 3 **Panel Rating:** 600.0 A
Enclosure: NEMA 3R

CKT	Circuit Description	Device Notes	Trip	Poles	A		B		Poles	Trip	Device Notes	Circuit Description	CKT
1	PANEL P1 (NEW)		200	2	11940	27994			2	400		PANELS A & B (EXISTING)	2
3							11148	26664					4
5	SPARE		200	2	0	11588			2	200		PANEL PRL-1A (EXISTING)	6
7							0	11028					8
9													10
11													12
13													14
15													16
17													18
				Total Load:	51522 VA		48840 VA						
				Total Amps:	429.4 A		407.0 A						

DEVICE ABBREVIATION LEGEND:	DEVICE NOTES LEGEND:	Panel Totals	
L = LIGHTS	GFI = GFI BREAKER, IF UNAVAILABLE SUBSTITUTE WITH GFI RELAY MODULE		
R = RECEPTACLES	LOD = LOCK ON/OFF DEVICE	**Total Conn. Load:**	100362 VA
M = MECHANICAL EQUIPMENT	SPD = SURGE PROTECTION DEVICE	**Total Est. Demand:**	100362 VA
P = PLUMBING EQUIPMENT	BM = BRANCH CIRCUIT LEVEL METERING	**Total Conn. Current:**	418.2 A
		Total Est. Demand Current:	418.2 A

Notes:
NEW PANEL
SERVICE ENTRY RATED

Panelboard: P1

Location: WORKROOM 003 **Volts:** 240/120V **A.I.C. Rating:** 10,000
Supply From: DP1 **Phases:** 1 **Mains Type:** MLO
Mounting: Wall Mounted **Wires:** 3 **Panel Rating:** 200.0 A
Enclosure: NEMA 1

CKT	Circuit Description	Device Notes	Trip	Poles	A		B		Poles	Trip	Device Notes	Circuit Description	CKT
1	L - EXIT SIGNS	LOD	15	1	30	3060			2	40		M - CU-1	2
3	L - CHILDRENS AREA		20	1			1166	3060					4
5	L - PROGRAM, WORKROOM, RR		20	1	378	3060			2	40		M - CU-2	6
7	L - EXTERIOR		20	1			61	3060					8
9	R - CHILDRENS SEATING - COMPUTERS		20	1	720	1500			1	20		P - EWH-1	10
11	FLOOR BOXES - CHILDRENS AREA		20	1			720	1572	1	20		M - AHU-1	12
13	R - CHILDRENS AREA, PROGRAM		20	1	900	1572			1	20		M - AHU-2	14
15	R - CORR, WORKROOM, RR		20	1			900	72	1	15		M - EF-1	16
17	R - WORKROOM - ABOVE COUNTER		20	1	540	180			1	20		R - ATTIC	18
19	POWER SUPPLY		20	1			180	360	1	20		R - EXTERIOR	20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37	SPARE		20	1	0	0			1	20		SPARE	38
39	SPARE		20	1			0	0	1	20		SPARE	40
41	SPARE		20	1	0	0			1	20		SPARE	42
				Total Load:	11940 VA		11148 VA						
				Total Amps:	99.5 A		92.9 A						

DEVICE ABBREVIATION LEGEND:	DEVICE NOTES LEGEND:	Panel Totals	
L = LIGHTS	GFI = GFI BREAKER, IF UNAVAILABLE SUBSTITUTE WITH GFI RELAY MODULE		
R = RECEPTACLES	LOD = LOCK ON/OFF DEVICE	**Total Conn. Load:**	23088 VA
M = MECHANICAL EQUIPMENT	SPD = SURGE PROTECTION DEVICE	**Total Est. Demand:**	23088 VA
P = PLUMBING EQUIPMENT	BM = BRANCH CIRCUIT LEVEL METERING	**Total Conn. Current:**	96.2 A
		Total Est. Demand Current:	96.2 A

Notes:
NEW PANEL

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CINCINNATI, OH 45202 513.381.2112

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ISSUANCES

1	08-28-26	DESIGN DEVELOPMENT
3	10-30-26	BID/PERMIT

ELECTRICAL SINGLE LINE DIAGRAM AND PANEL SCHEDULES

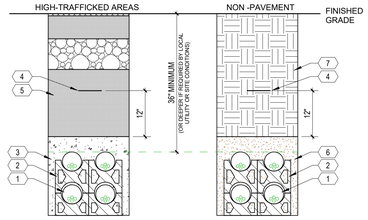
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0"-1" REFERENCE LINE



GENERAL NOTES:

A. COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY COMPANY

B. NUMBER OF CONDUITS IN TRENCH ARE AS INDICATED ON PLANS

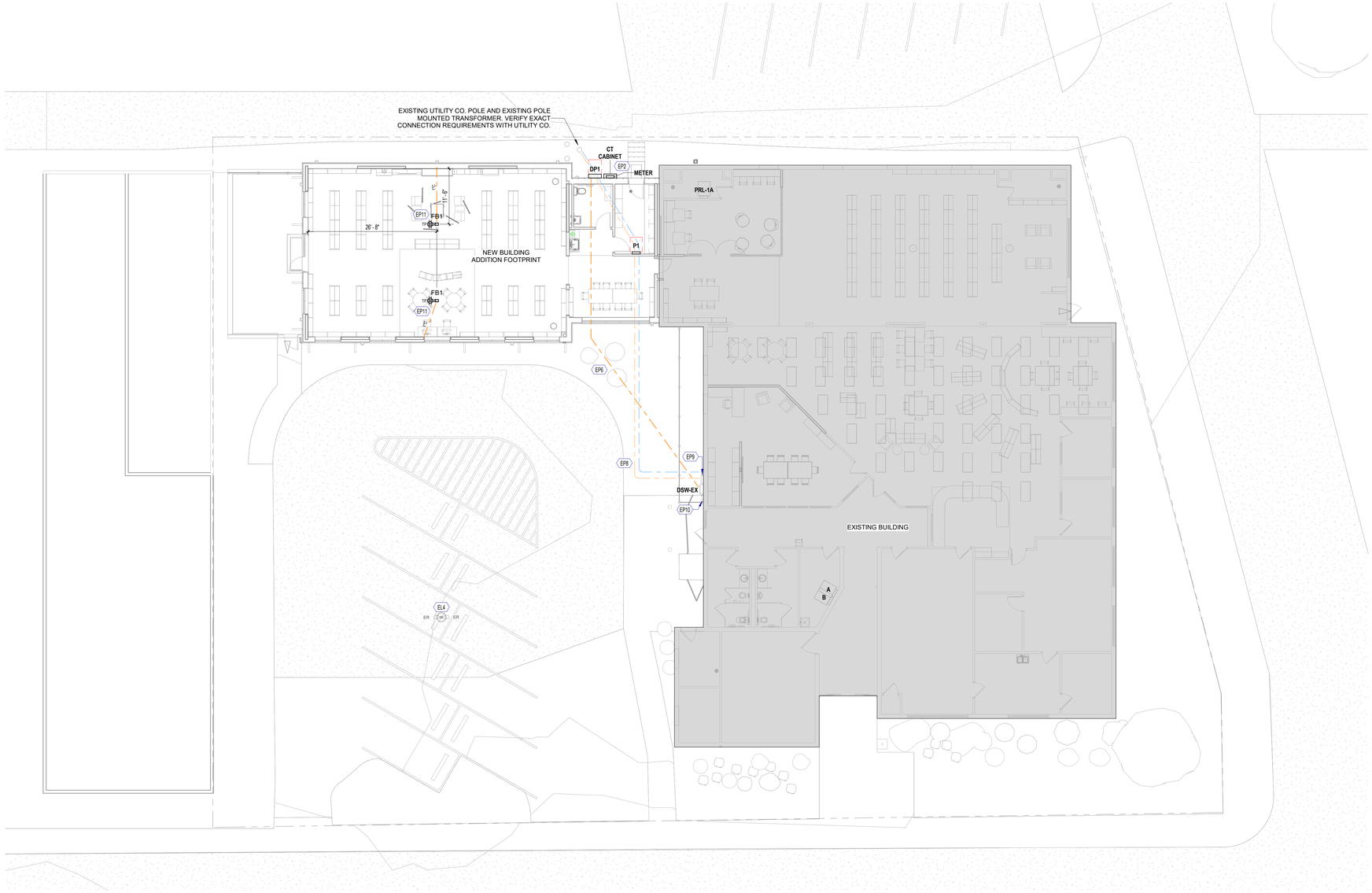
C. ALL UNDERGROUND CONDUITS TO HAVE LONG SWEEPING BENDS

D. PROVIDE ALL EMPTY UNDERGROUND CONDUITS WITH PULLWIRE

DETAIL NOTES:

1. SCHEDULE 40 PVC DUCT, SIZE AS INDICATED ON DRAWINGS. MINIMUM 2" SPACING BETWEEN DUCTS FOR LIKE SERVICES, AND 4" SPACING BETWEEN POWER AND COMMUNICATIONS DUCT.
2. PVC INTERLOCKING DUCT SPACERS. PROVIDE EVERY 48" OC, AND WITHIN 24" OF DUCT ENDS.
3. EXCAVATE TRENCH 4" WIDER THAN DUCT ON EACH SIDE. PROVIDE 3000 PSI, 28-DAY STRENGTH CONCRETE ENCASEMENT, WITH RED DYE. USE WALLS OF TRENCH TO FORM SIZE WALLS OF DUCT BANK ONLY WHERE SOIL IS SELF-SUPPORTING AND CONCRETE CAN BE POURED WITH NO SOIL INCLUSIONS. OTHERWISE, USE FORMS.
4. RED WARNING TAPE, NO LESS THAN 12" ABOVE DUCT BANKS.
5. COMPACTED BACKFILL AND PAVEMENT, VARIES BASED ON INSTALLATION LOCATION. COMPLY WITH DIV. 31 REQUIREMENTS.
6. EXCAVATE TRENCH 4" WIDER THAN DUCT ON EACH SIDE. PROVIDE MINIMUM 3" OF SAND AS BED FOR DUCT, AND PLACE SAND TO MINIMUM 6" ABOVE TOP OF DUCT.
7. COMPACTED BACKFILL. COMPLY WITH DIV. 31 REQUIREMENTS.

2 E701 DUCT BANK DETAIL



N 1 E701 ELECTRICAL SITE PLAN
1" = 10'-0"

GENERAL NOTES - SITE PLAN

A. PRIMARY CONDUCTORS FURNISHED AND INSTALLED BY UTILITY COMPANY.

B. COORDINATE SERVICE INSTALLATION REQUIREMENTS WITH UTILITY COMPANY.

C. COORDINATE SCHEDULE OF WORK WITH CONSTRUCTION MANAGER AND UTILITY COMPANY.

D. PERFORM ALL EXCAVATION, TRENCHING AND BACKFILL REQUIRED FOR THE INSTALLATION OF THIS WORK. ALL BACKFILL SHALL BE BROUGHT TO FINISHED GRADE AND MATCH SURROUNDING CONDITIONS. RESTORE ALL DISTURBED PAVING AND LANDSCAPING TO ORIGINAL CONDITIONS. PULL BOXES SHALL BE PROVIDED OF THE TYPE MEETING THE REQUIREMENTS AND CONDITIONS FOR THE USE INTENDED. PROVIDE QUANTITY AND TYPE OF PULL BOXES TO MEET INSTALLATION REQUIREMENTS.

E. COORDINATE DEPTH AND ROUTING OF UNDERGROUND WORK WITH OTHER SITE UTILITIES.

F. COORDINATE ALL SITE CONDUIT ROUTING WITH OTHER DISCIPLINES. ROUTING SHOWN ON DRAWINGS IS FOR REFERENCE ONLY AND MAY BE MODIFIED TO ACCOMMODATE FOR SITE CONDITIONS.

KEYNOTES

EL4 MAINTAIN CONTINUITY OF BRANCH WIRING TO EXISTING SITE LIGHTING. RE-ROUTE AND ADD NEW CONDUIT AND WIRING AS NEEDED TO AVOID SITE WORK.

EP2 NEW UTILITY CO. CT CABINET AND METER TO BE INSTALLED FOLLOWING PREPARATION FOR NEW SERVICE CONNECTION. COORDINATE EXACT REQUIREMENTS FOR UTILITY CONNECTION WITH UTILITY CO. VERIFY EXACT LOCATION(S) WITH UTILITY CO. PRIOR TO INSTALLATION.

EP6 ROUTE NEW 3" CONDUIT WITH PULL STRING BELOW GRADE TO EXISTING DISCONNECT SWITCH. STUB-UP AND CAP CONDUIT FOR CONNECTION TO NEW PANEL 'DP1'.

EP8 MAINTAIN EXISTING ELECTRICAL AND TECHNOLOGY SERVICE ENTRY CONDUITS DURING CONSTRUCTION. EXISTING BUILDING TO REMAIN OPERATIONAL UNTIL NEW SERVICE CONNECTION IS READY.

EP9 EXISTING UTILITY CO. METER IS SCHEDULED FOR DEMOLITION. MAINTAIN EXISTING CONNECTION UNTIL NEW SERVICE CONNECTION IS READY.

EP10 EXISTING ENCLOSED CIRCUIT BREAKER IS SCHEDULED FOR DEMOLITION. MAINTAIN EXISTING CONNECTION UNTIL NEW SERVICE CONNECTION IS READY.

EP11 PROVIDE CONDUIT UNDER SLAB FROM ABOVE FINISHED CEILING FOR POWER DEVICES. CONDUIT SIZE AND QUANTITY AS NOTED ON PLANS.

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ISSUANCES

1	08-28-26	DESIGN DEVELOPMENT
2	09-14-26	EARLY SITE PACKAGE
3	10-30-26	BID/PERMIT

ELECTRICAL SITE PLAN

COMM NO. 2026032.01

E701

0'-1" REFERENCE LINE

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