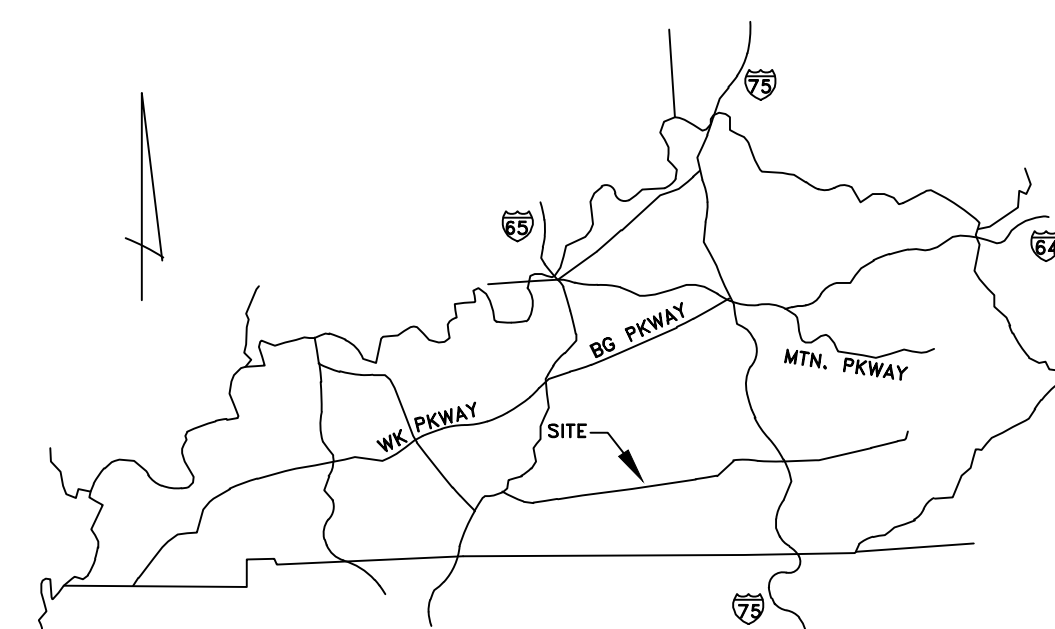


THE SEED ACADEMY LAKE CUMBERLAND REGIONAL AGRITECH CENTER RUSSELL SPRINGS, KENTUCKY

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nsc Engineers
Architects
Planners
OF KENTUCKY, INC.

624 Wellington Way
Lexington, KY 40503
www.nselex.com

Phone: (859)223-5694
Fax: (859)223-2607

CODE INFORMATION:

Building Code: 2019 Kentucky Building Code, Second Edition

Project: Seed Academy - Russell Springs AgriTech

Project Site Address: 531 French Valley Rd., Russell Springs, KY 42642.

Brief Description: New Construction Agriculture Technology Education Facility, with an Auditorium, 1 training classrooms, 4 training lab/classrooms, Administrative area, including livestock barn adjacent to Auditorium, and a greenhouse

Use Group: Business Group B (Training and Skill Development)

Heights and Areas: Table 504.3 Allowable Building Height in Feet above grade plane

Table 504.3 Construction Type II-B fully sprinklered 75 feet allowed. 25 feet actual height.

Table 504.4 Allowable number of stories above grade plane 3 stories allowed. 1 story actual.

Table 506.2 Allowable Area Factor Type II-B (S1) 92,000 SF allowed. 19,147 SF actual.

Section 1004 Occupant Load:

Training & Skill Development Areas - Classroom area: 20 net

Stops & Vocational areas: 50 net

6,210 SF of Training Lab/Classrooms = divided by 20 net = 312 Occupants.

Per Table 1006.2.1 Maximum Common Path of Egress Travel is 100 feet.

Accessibility Codes:

- i. American's with Disabilities Act (ADA) 2010.
- ii. Architectural Barriers Act Accessibility Standards (ABAAS) 2015.

DATE: AUGUST 2024

SET NO.

GENERAL NOTES:

- PRIOR TO ANY CONSTRUCTION OR DEMOLITION ACTIVITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL MAINTAIN UNINTERRUPTED UTILITY SERVICE TO ADJACENT FACILITIES DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WORK WITH UTILITY OWNERS. SHOULD DAMAGE OCCUR TO EXISTING OR NEW UTILITY SERVICES DURING CONSTRUCTION, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR AND/OR REPLACE SAID DAMAGE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE OWNER. NEW UTILITY WORK, REPAIRS, REPLACEMENTS AND/OR RELOCATIONS SHALL MEET THE APPROVAL OF THE UTILITY OWNER.
- CONTRACTOR TO MARK AND PROTECT ALL UNDERGROUND UTILITIES AND OVERHEAD OBSTRUCTIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS NOTING THE OWNER HAS OBTAINED AND PROVIDED THE KY TRANSPORTATION CABINET ENCROACHMENT PERMIT. SEE OWNER PERMIT DOCUMENTS IN DIVISION 0 OF THE PROJECT MANUAL WHICH SPECIFIC REQUIREMENTS WHICH THE CONTRACTOR MUST FOLLOW. THE CONTRACTOR WILL BE REQUIRED TO COMPLETE AND SUBMIT A NOTICE ON INTENT (NOI) FOR STORMWATER DISCHARGE WITH THE KENTUCKY DEPARTMENT OF WATER PRIOR TO ANY CONSTRUCTION ACTIVITY. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (NOT) TO THE KENTUCKY DIVISION OF WATER. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF ALL PERMITS OBTAINED BY THE CONTRACTOR.
- VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE "KENTUCKY BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES" DATED AUGUST 1994 AS PREPARED BY THE DIVISION OF CONSERVATION AND DIVISION OF WATER, NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET AND/OR THE KENTUCKY TRANSPORTATION CABINET (KYTC) STANDARDS. CONTRACTOR SHALL USE THE "KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE" AS THE DEFINITION OF REQUIREMENTS FOR CONSTRUCTION ACTIVITY.
- EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN AND MUST BE PROPERLY MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY OWNER OR THE GOVERNING AGENCY. CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RUN-OFF PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MADE IMMEDIATELY WITHIN 24 HOURS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING CONSTRUCTION ENTRANCES AND SHALL KEEP ALL ROADS AND STREETS FREE FROM MUD, DIRT AND DEBRIS.
- THE CONTRACTOR MUST PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES AND THE KENTUCKY DEPARTMENT OF HIGHWAYS GUIDANCE MANUAL.
- THE CONTRACTOR MUST MAINTAIN ACCESS TO EXISTING BUSINESSES AND EXISTING ROADS.
- IN ADDITION TO PREVENTING SEDIMENT AND EROSION CONTROL DURING CONSTRUCTION, THE CONTRACTOR MUST MINIMIZE OR ELIMINATE THE POTENTIAL FOR CHEMICAL CONTAMINANTS TO ENTER THE SOIL OR BE CARRIED ACROSS THE SITE BY STORM WATER. POTENTIAL CONTAMINANTS NORMALLY ASSOCIATED WITH CONSTRUCTION ACTIVITY INCLUDE GASOLINE AND DIESEL FUEL, OIL, GREASE, ANTIFREEZE, TERMITES SOIL TREATMENT CHEMICALS, FERTILIZER, ASPHALT OILS EMULSIONS AND SMALL PARTICLE SIZE CONSTRUCTION DEBRIS. THE CONTRACTOR MUST EMPLOY VARIOUS BEST MANAGEMENT PRACTICES TO ELIMINATE OR MINIMIZE THE POTENTIAL FOR THESE CONTAMINANTS TO REACH THE SOIL AND/OR DRAINAGE SYSTEMS.
- ALL SURFACE RUNOFF SHALL BE DIRECTED AWAY FROM ROADWAYS AND BUILDINGS AND DIRECTED TO DRAINAGE STRUCTURES, DITCHES OR SWALES.
- CONTRACTOR SHALL ACCURATELY RECORD ALL UTILITIES CONSTRUCTED OR ENCOUNTERED ON "AS-BUILT" DRAWINGS AND PROVIDE TO OWNER AND ENGINEER.
- MATERIALS AND METHODS OF CONSTRUCTION FOR GRADING AND DRAINAGE STRUCTURES INCLUDING PIPING AND HEADWALLS SHALL BE IN ACCORDANCE WITH KENTUCKY TRANSPORTATION CABINET (KYTC) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION.
- CONTRACTOR SHALL NOTIFY ENGINEER OF ANY AREAS WHERE UNACCEPTABLE SOILS, SINKHOLES, WET AREAS OR OTHER CONDITIONS ARE ENCOUNTERED WHICH MAY ADVERSELY AFFECT THE SITE. IF DIRECTED BY ENGINEER, REMOVE UNSUITABLE SOILS AND REPLACE THEM WITH ACCEPTABLE SOILS.
- EARTH AND ROCK WORK IS UNCLASSIFIED. NO EXTRA PAYMENT WILL BE MADE FOR ROCK EXCAVATION.
- CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS IN GRADING PLAN AS NECESSARY TO PROVIDE FOR SMOOTH TRANSITION FOR EXISTING ENTRANCES.
- ALL SPOT ELEVATIONS INDICATE FINISH GRADE OF SURFACE. CONTRACTOR SHALL MAKE ADJUSTMENTS TO ESTABLISH GRADES OF SUB-BASE OR SUBGRADE.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE EARTHWORK (EXCAVATION AND EMBANKMENT) QUANTITIES.
- AREAS TO BE FILLED, EXCAVATED, LANDSCAPED, OR REGRADED SHALL BE STRIPPED OF ALL VEGETATION AND TOPSOIL. ALL TOPSOIL SHALL BE STOCKPILED FOR REDISTRIBUTION. STOCKPILE AREAS SHALL HAVE SOIL EROSION PROTECTION IN THE FORM OF SILT FENCING INSTALLED AROUND THE PERIMETER OR OTHER SUCH ACCEPTABLE MEASURES.
- ALL SOIL FILL MATERIAL PLACED ON THIS PROJECT SHOULD BE COMPACTED WITH APPROPRIATE EQUIPMENT IN UNIFORM LAYERS TO THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557) AS RECOMMENDED IN THE GEOTECHNICAL REPORT FOR THIS PROJECT.
- FILL MATERIAL SHALL BE PROPERTY MONITORED USING FIELD DENSITY TEST CHECKS. IN ACCORDANCE WITH SPEC SECTION 01410, ALL TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PROVIDED BY A QUALIFIED INDEPENDENT TESTING AGENCY. SHOULD REPORTS INDICATE SPECIFIED COMPACTION IS NOT ACHIEVED, THE CONTRACTOR SHALL REMOVE MATERIAL, REPLACE, AND RETEST AT NO ADDITIONAL COST TO THE OWNER UNTIL ACCEPTABLE RESULTS ARE ACHIEVED. COPIES OF TEST REPORTS SHALL BE PROVIDED TO THE ENGINEER.
- CONTRACTOR SHALL PROVIDE REDISTRIBUTION OF STOCKPILED OR IMPORT TOPSOIL AS REQUIRED OVER ALL FINISHED GRADE SOIL AREAS TO A MINIMUM OF 12 INCHES AND PROVIDE FINAL SITE GRADING TO INSURE POSITIVE DRAINAGE AWAY FROM ROADWAYS AND BUILDINGS. AFTER FINAL GRADING, ANY LOW SPOTS WHICH ALLOW WATER TO POND SHALL MAKE ANY NECESSARY MINOR GRADE ADJUSTMENTS AS REQUIRED TO BEST FIT THE ACTUAL SITE CONDITIONS. CONTRACTOR SHALL PROVIDE BORROW MATERIAL AS REQUIRED FOR FILLING EXCAVATIONS, HOLES AND OTHER SUCH OPENINGS.
- ALL EARTH GRADED AREAS SCARRED OR DENUDED BY THE CONSTRUCTION ACTIVITY SHALL BE SEEDED AND PROTECTED IN ADDITION TO THE PROVISIONS OF OTHER EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED.
- ALL SURPLUS AND WASTE MATERIALS SHALL BE TRANSPORTED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS AND CODES UNLESS OTHERWISE APPROVED BY OWNER. NO BURNING OR BURYING OF TREES, BRUSH, CONSTRUCTION DEBRIS, RUBBISH, ETC. SHALL BE ALLOWED ON SITE UNLESS OWNER APPROVAL IS OBTAINED. THESE REGULATIONS INCLUDE BUT ARE NOT LIMITED TO KENTUCKY DIVISION FOR AIR QUALITY REGULATION 401 KAR 63.010 FUGITIVE EMISSIONS STATES THAT NO PERSON SHALL CAUSE, SUFFER, OR ALLOW ANY MATERIAL TO BE HANDLED, PROCESSED, TRANSPORTED, OR STORED WITHOUT TAKING REASONABLE PRECAUTION TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE. ADDITIONAL REQUIREMENTS INCLUDE THE COVERING OF OPEN BODIED TRUCKS, OPERATING OUTSIDE THE WORK AREA TRANSPORTING MATERIALS LIKELY TO BECOME AIRBORNE, AND THAT NO ONE SHALL ALLOW EARTH OR OTHER MATERIAL BEING TRANSPORTED BY TRUCK OR EARTH MOVING EQUIPMENT TO BE DEPOSITED ONTO A PAVED STREET OR ROADWAY. ALL SOLID WASTE GENERATED BY THIS PROJECT MUST BE DISPOSED AT A PERMITTED FACILITY.
- NO BURNING OR BURYING OF TREES, BRUSH, CONSTRUCTION DEBRIS, RUBBISH, ETC. SHALL BE ALLOWED ON SITE UNLESS OWNER APPROVAL IS OBTAINED. KENTUCKY DIVISION FOR AIR QUALITY REGULATION 401 KAR 63.005 STATES THAT OPEN BURNING IS PROHIBITED. OPEN BURNING IS DEFINED AS THE BURNING OF ANY MATTER IN SUCH A MANNER THAT THE PRODUCTS OF COMBUSTION RESULTING FROM THE BURNING ARE EMITTED DIRECTLY INTO THE ATMOSPHERE WITHOUT PASSING THROUGH A STACK OR CHIMNEY.
- IF UNDERGROUND STORAGE TANKS ARE ENCOUNTERED, THEY MUST BE PROPERLY ADDRESSED. IF ASBESTOS, LEAD PAINT, AND/OR OTHER CONTAMINANTS ARE ENCOUNTERED DURING THIS PROJECT, THEY MUST BE PROPERLY ADDRESSED. PLEASE ARCHITECT/ENGINEER IMMEDIATELY IF ANY OF THESE ARE ENCOUNTERED TO COORDINATE THESE BEING PROPERLY ADDRESSED.

STORM DRAINAGE FACILITIES NOTES

- STORM SEWER PIPE SHALL BE AS DESIGNATED ON THE APPROVED CONSTRUCTION PLANS, AND SHALL CONFORM TO THE GENERAL SPECIFICATIONS.
- BEDDING AND BACKFILL SHALL CONSIST OF THE FOLLOWING:
 - WHEN THE TRENCH EXCAVATION IS IN ROCK, THE PIPE SHALL BE BEDDED ON AT LEAST 6 INCHES OF NO. 9 OR NO. 68 CRUSHED STONE, AND SHALL BE BACKFILLED WITH NO. 9 OR NO. 68 CRUSHED STONE FOR A MINIMUM OF 12 INCHES ABOVE THE TOP OF THE PIPE. BACKFILL ABOVE THIS CUSHION SHALL NOT CONTAIN PIECES OF ROCK LARGER THAN 12 INCHES IN ANY DIMENSION.
 - WHEN THE TRENCH EXCAVATION IS IN SOIL, THE PIPE SHALL BE BEDDED ON AT LEAST 6 INCHES OF NO. 9 OR NO. 68 CRUSHED STONE, AND SHALL BE BACKFILLED WITH NO. 9 OR NO. 68 CRUSHED STONE TO THE SPRINGLINE OF THE PIPE. THE REMAINING PORTION OF THE TRENCH, NOT LOCATED WITHIN A STREET, CAN BE BACK FILLED WITH SELECT SOIL CONTAINING ROCKS NO LARGER THAN 1 1/2 INCH IN SIZE.
 - WHEN THE TRENCH EXCAVATION IS WITHIN A STREET (I.E., BACK OF CURB TO BACK OF CURB), THEN THE ENTIRE TRENCH SHALL BE BACKFILLED WITH NO. 9 OR NO. 68 CRUSHED STONE.
- MANHOLES SHALL BE CONSTRUCTED OF PRECAST CONCRETE AND SHALL CONFORM TO THE GENERAL SPECIFICATIONS. ALL MANHOLE TOPS SHALL BE ECCENTRIC IN DESIGN. CONICAL TOPS SHALL BE USED FOR ALL MANHOLES WITH DEPTHS SUFFICIENT FOR THEIR USE. MINOR GRADE ADJUSTMENTS (THROUGH THE USE OF GRADE RINGS) TO THE RIM ELEVATION SHALL NOT EXCEED 12 INCHES. NO MORE THAN 2 GRADE RINGS SHALL BE PERMITTED. BITUMINOUS MASTIC SEALANT SHALL BE USED AT EACH JOINT OF THE MANHOLE AND BETWEEN ALL GRADE RINGS AND/OR CASTINGS. NON-SHRINK (HYDRAULIC) GROUT SHALL BE REQUIRED INSIDE THE MANHOLES WHERE THE PIPES ENTER AND EXIT.
- HEADWALLS AND OTHER CONCRETE STRUCTURES SHALL BE AS DESIGNATED ON THE APPROVED CONSTRUCTION PLANS, AND SHALL CONFORM TO THE GENERAL SPECIFICATIONS.
- DRAINAGE SWALES SHALL CONFORM TO THE GENERAL SPECIFICATIONS. DRAINAGE SWALES SHALL BE SODDED OR HAVE VEGETATION BLANKETS USED TO THE ELEVATION OF THE 25-YEAR FREQUENCY STORM.
- MINIMUM 3 FOOT HIGH CHAIN LINK FENCING SHALL BE REQUIRED ALONG THE PERIMETER OF THE HEADWALL IF THE DISTANCE FROM THE PIPE INVERT TO THE TOP OF THE HEADWALL EXCEEDS 3.5 FEET.

UTILITY CONSTRUCTION WITHIN ROADWAY AREA

NO ADDITIONAL FUNDS WILL BE PAID TO CONTRACTOR FOR SPECIAL CONSTRUCTION NECESSARY TO COMPLY WITH THE FOLLOWING REQUIREMENTS:

UTILITY CONTRACTOR SHALL INSURE THAT FINISHED PIPELINES, BOTH WATER AND SEWER, HAVE SPECIFIED DEPTH OF COVER FROM FINISHED GRADES, INCLUDING ROADWAY AND ROADWAY DITCHES. CAREFUL ATTENTION SHALL BE PAID TO AVOID CONFLICT WITH PROPOSED DITCHES, STORM DRAINS AND ROADWAY EXCAVATION. BACKFILL IN PIPELINES WITHIN THE ROADWAY LIMITS (PAVEMENT AND SHOULDERS) SHALL BE CRUSHED STONE AS SPECIFIED. UTILITY CONTRACTORS SHALL INCLUDE EXTRA DEPTH TRENCHING IF NECESSARY TO YIELD REQUIRED COVER AFTER ROADWAY EXCAVATION AND USE CRUSHED STONE TO THE ELEVATION NECESSARY TO YIELD A CRUSHED STONE TRENCH BACKFILL UNDER PAVEMENT AND SHOULDERS.

ROADWAY CONSTRUCTION NOTES

- SUBGRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GENERAL SPECIFICATIONS. COMPACTION TESTS AT SPECIFIED INTERVALS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO PLACING THE FIRST LIFT OF STONE.
- CONCRETE CURB SHALL CONFORM TO THE DETAILS IN THE GENERAL SPECIFICATIONS. CONSTRUCTION JOINTS SHALL BE INSTALLED AT 500 FOOT INTERVALS AND CONTROL JOINTS SHALL BE SAWED TRANSVERSELY AT 25 FOOT INTERVALS TO A MINIMUM DEPTH OF 2 INCHES. DGA BACKFILL SHALL BE PLACED BEHIND THE CURB PRIOR TO PAVING ROADWAY.

SPECIFICATIONS FOR GEOTEXTILE FABRIC

GRAB TENSILE STRENGTH 220 LBS. (MIN.) (ASTM D1682)
 ELONGATION FAILURE 60% (MIN.) (ASTM D1682)
 MULLEN BURST STRENGTH 430 LBS. (MIN.) (ASTM D3768)
 PUNCTURE STRENGTH 125 LBS. (MIN.) (ASTM D751)
 (MODIFIED)
 EQUIVALENT OPENING SIZE 40-80 (US STD SIEVE)
 (CW-02215)

NOTES

- A STABILIZED ENTRANCE PAD OF CRUSHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
- SOIL STABILIZATION FABRIC SHALL BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- ANY SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.



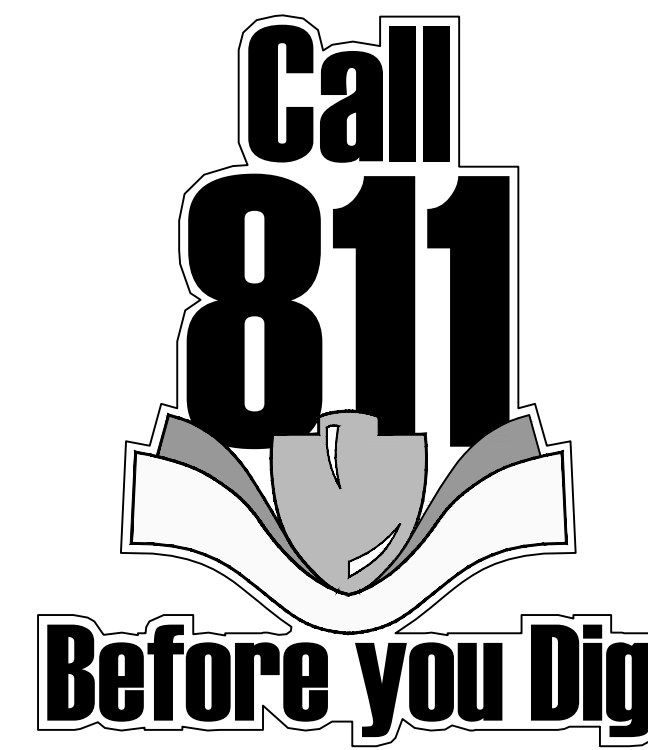
GENERAL NOTES

The Seed Academy
 Lake Cumberland Regional AgriTech Center
 Russell Springs, Kentucky

DATE	REVISION	BY

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PROJECT NO. 2078-34
DESIGNED BY G.A.R.
DRAWN BY J.R.M.
CHECKED BY G.A.R.
REVIEWED BY G.A.R.
DATE JANUARY 2024
SCALE AS NOTED



MSE
 OF KENTUCKY, INC.
 Engineers
 Architects
 Planners
 Phone: (859)223-8684
 Fax: (859)223-8807
 624 Wellington Way
 Lexington, KY 40503
 www.mseinc.com

DRAWING NO.
GEN
 SHEET OF

EROSION CONTROL NOTES:

THE EROSION CONTROL MEASURES NOTED BELOW ARE MINIMUMS AND DO NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR COMPLIANCE WITH ANY AND ALL U.S. EPA , KENTUCKY DIVISION OF WATER AND/OR LOCAL REQUIREMENTS.

CONTRACTOR SHALL ESTABLISH EROSION CONTROL MEASURES BEFORE DISTURBING SITE.

ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.

ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION, IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETED AND THE SITE IS STABILIZED.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT EROSION ONTO ADJACENT PROPERTY. ANY REMEDIAL MEASURES REQUIRED TO CORRECT DAMAGE CREATED BY EROSION SHALL BE AT THE CONTRACTOR'S EXPENSE.

TOPSOIL STOCKPILES THAT ARE NOT BEING UTILIZED FOR A PERIOD OF 14 DAYS TO BE SURROUNDED BY SILT FENCE.

SILT FENCES TO BE CLEANED OUT WHEN THEY BECOME ONE-THIRD FULL.

WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF TEMPORARY OR PERMANENT SEEDING, NON-VEGETATIVE SOIL STABILIZATION PRACTICES SUCH AS MULCHING AND MATTING SHALL BE USED, UNTIL SUCH TIME AS CONDITIONS PERMIT.

ALL SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD. A FIELD LOG OF INSPECTIONS SHALL BE MADE AND A COPY GIVEN TO THE OWNER.

ALL SEDIMENT CONTROL FEATURES SHALL BE MAINTAINED UNTIL FINAL SOIL STABILIZATION HAS BEEN OBTAINED.

STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT NO MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PART OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED UNLESS THAT ACTIVITY IN THAT PORTION OF THE SITE WILL RESUME WITHIN 21 DAYS.

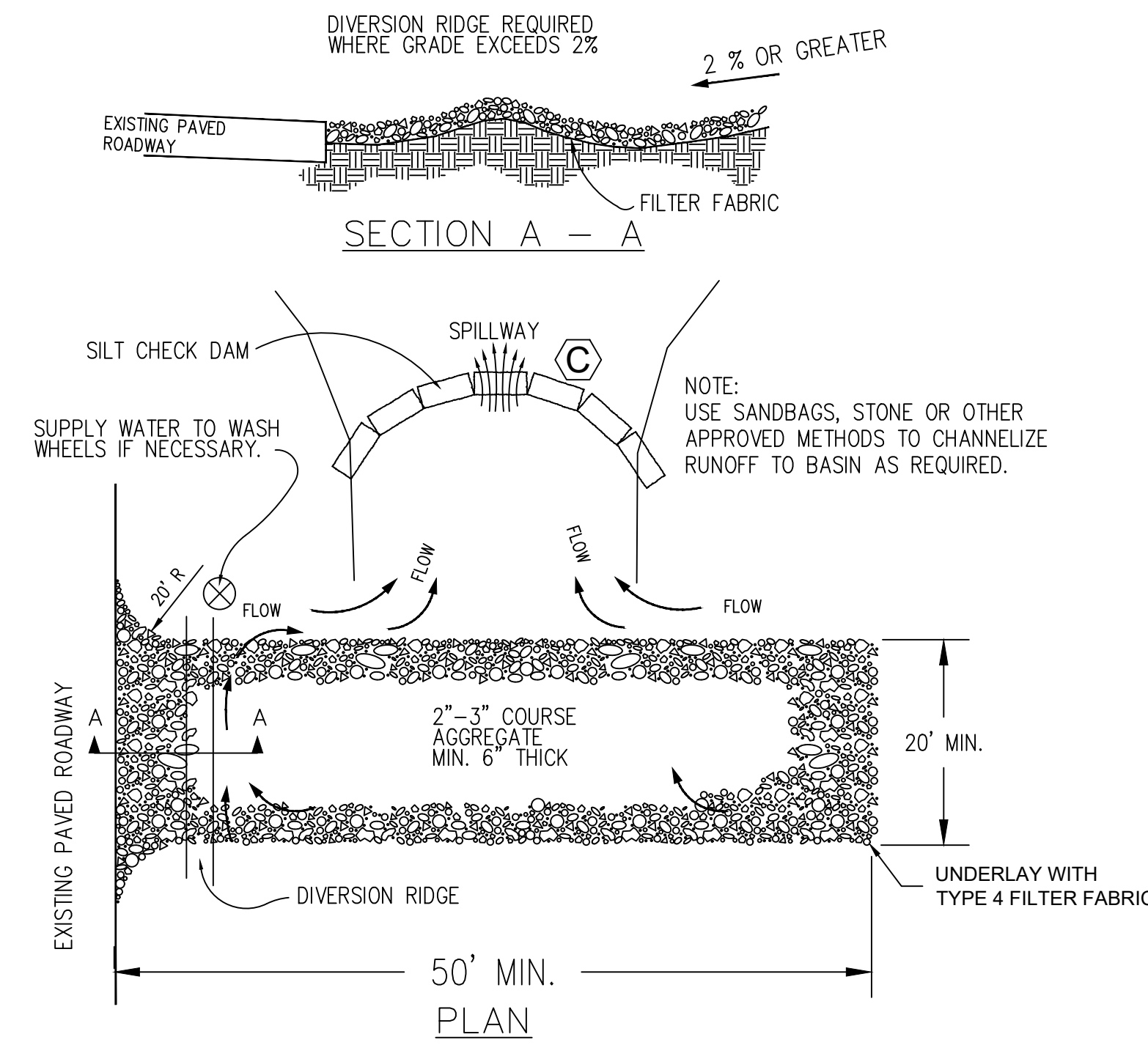
THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE TRACKING OF MUD ONTO PAVED ROADWAY FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED

PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES AND THE KENTUCKY DEPARTMENT OF HIGHWAYS GUIDANCE MANUAL.

MAINTAIN ACCESS TO EXISTING BUSINESSES AND EXISTING ROADS.

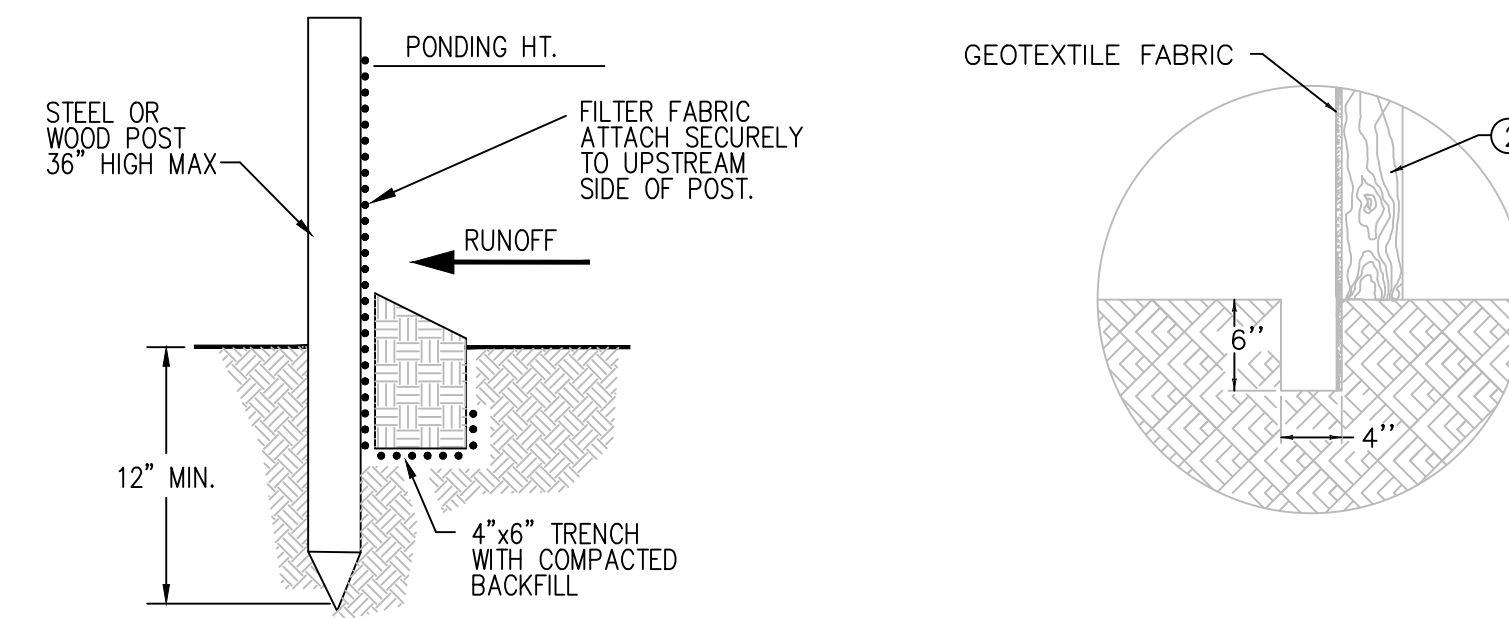
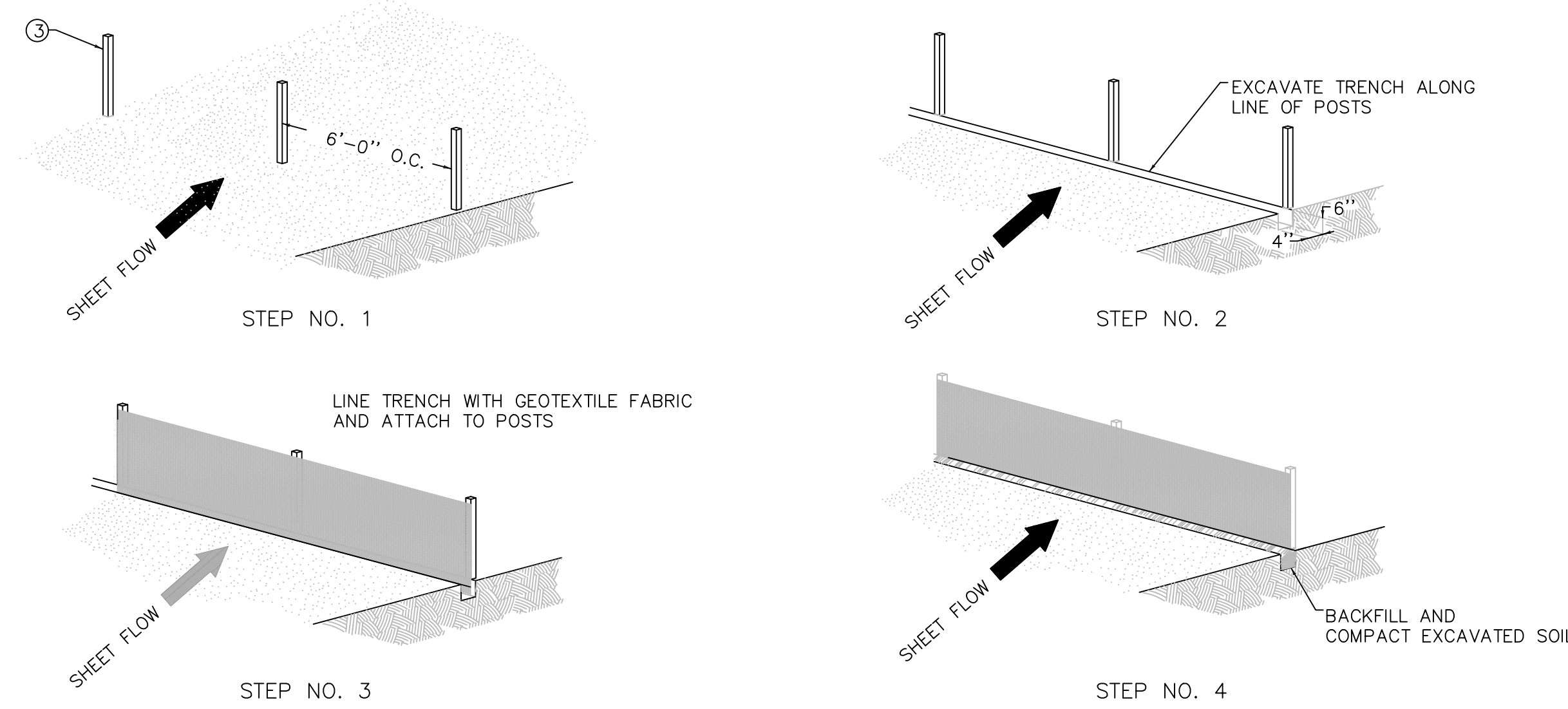
ALL EARTHWORK TO COMPLY WITH KENTUCKY DEPT. OF HIGHWAYS (KY-DOH SECTION 400) SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, EDITION OF 2000 AND ANY AMENDMENTS.

THE CONTRACTOR SHALL LIMIT ACCESS TO THE SITE TO THE CONSTRUCTION ENTRANCES. THE LOCATION OF THE CONSTRUCTION ENTRANCES SHALL BE APPROVED BY THE ENGINEER AND DESIGNATED ON THE SWPPP. THE CONTRACTOR SHALL INSTALL STONE SURFACE AT THE LOCATION WHERE CONSTRUCTION TRAFFIC LEAVES AND ENTERS THE SITE. THESE ACCESS POINTS SHALL BE MIN. 20' WIDE, 50' LONG, 0.5' DEEP AND USE NO. 7 STONE OVER GEOTEXTILE FABRIC. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND PARKING AREAS FREE FROM MUD, DIRT, DEBRIS, AND ROCK. DUST SHALL BE KEPT TO A MINIMUM BY UTILIZING SPRINKLING, CALCIUM CHLORIDE, VEGETATIVE COVER, SPRAY ON ADHESIVES OR OTHER APPROVED METHODS. THIS ENTRANCE SHALL BE MAINTAINED UNTIL THE STREET HAS BEEN CONSTRUCTED.

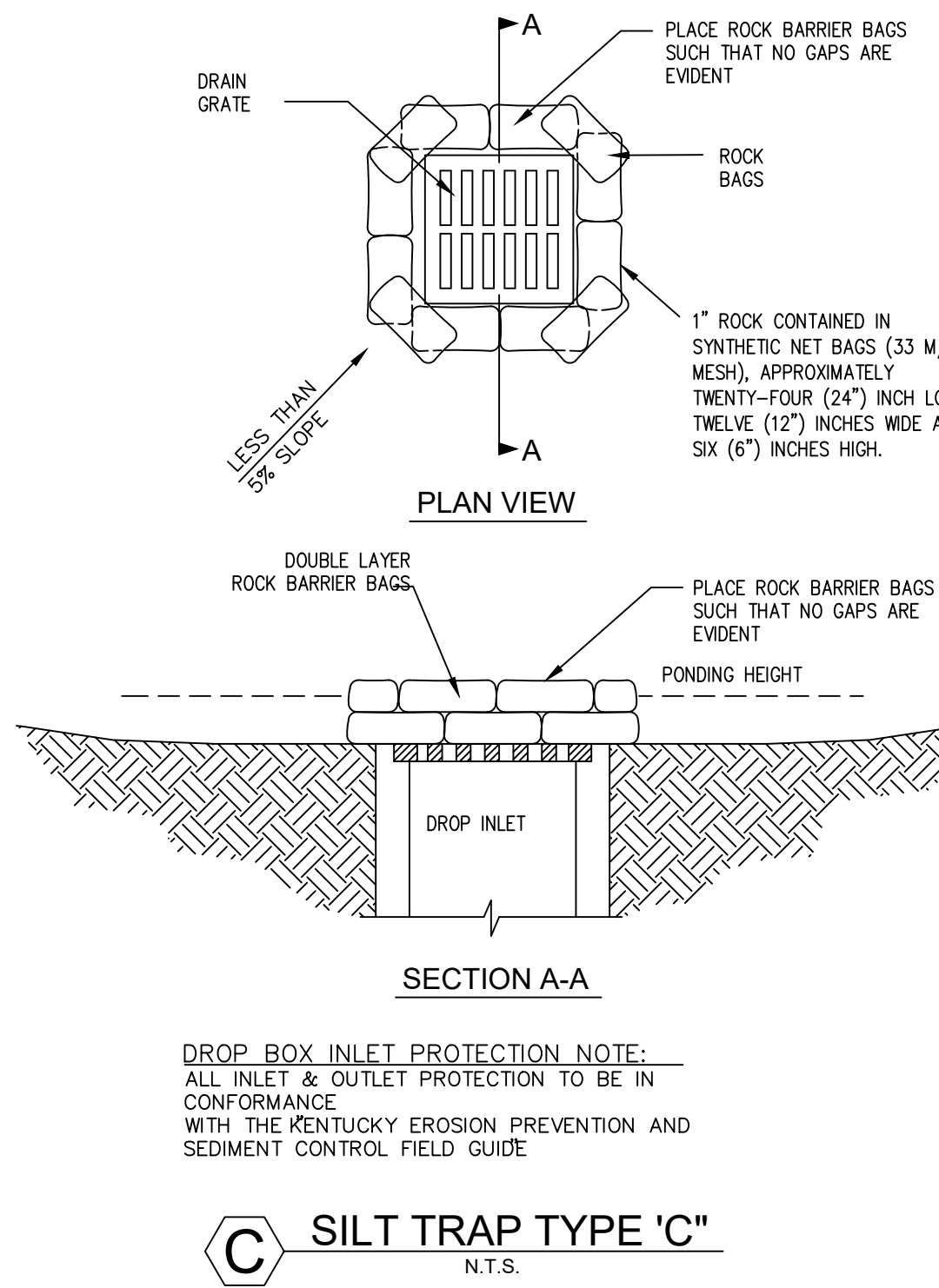


NOTES:
 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT
 N.T.S.

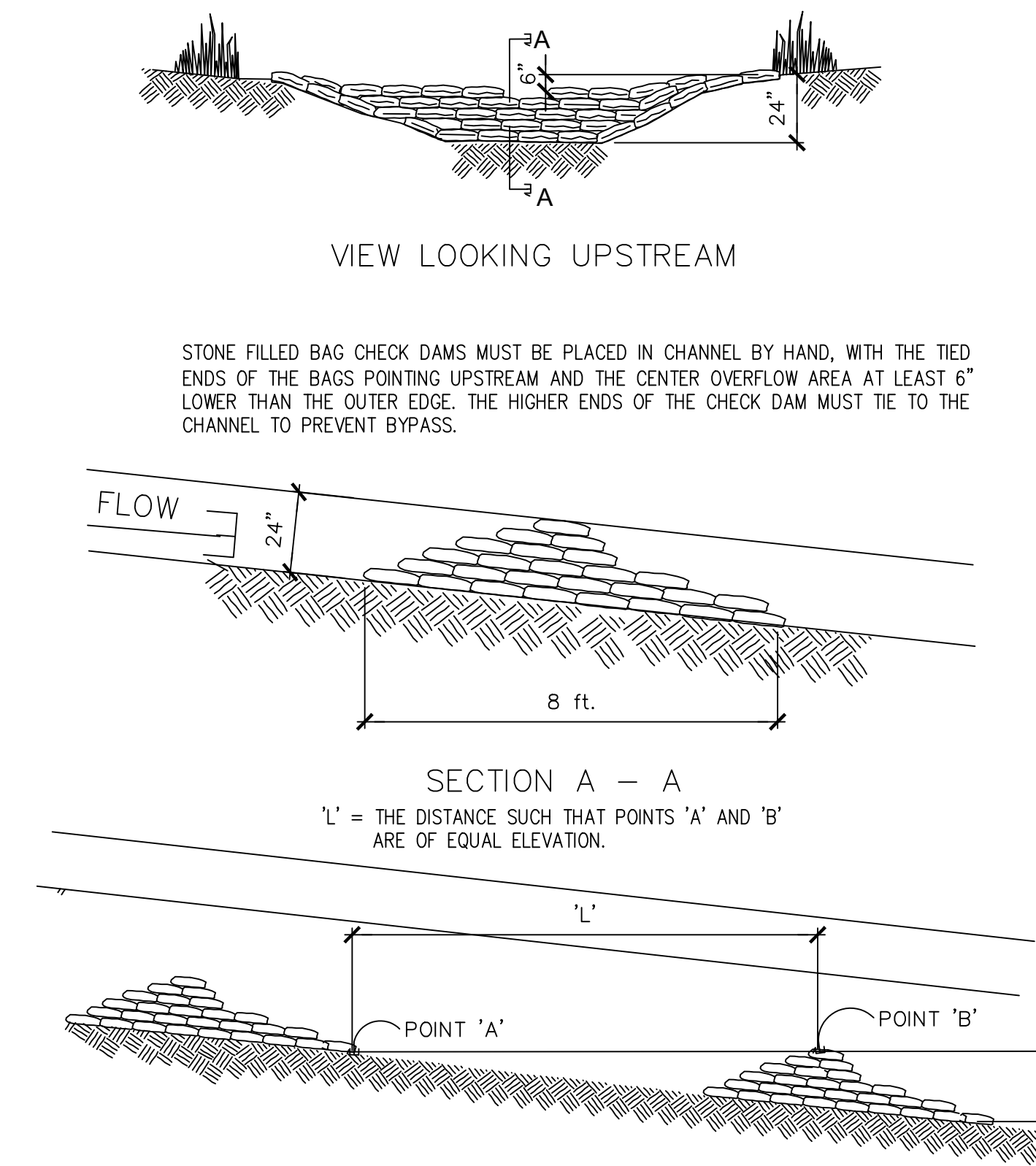


TEMP. SILT FENCE DETAILS
 N.T.S.



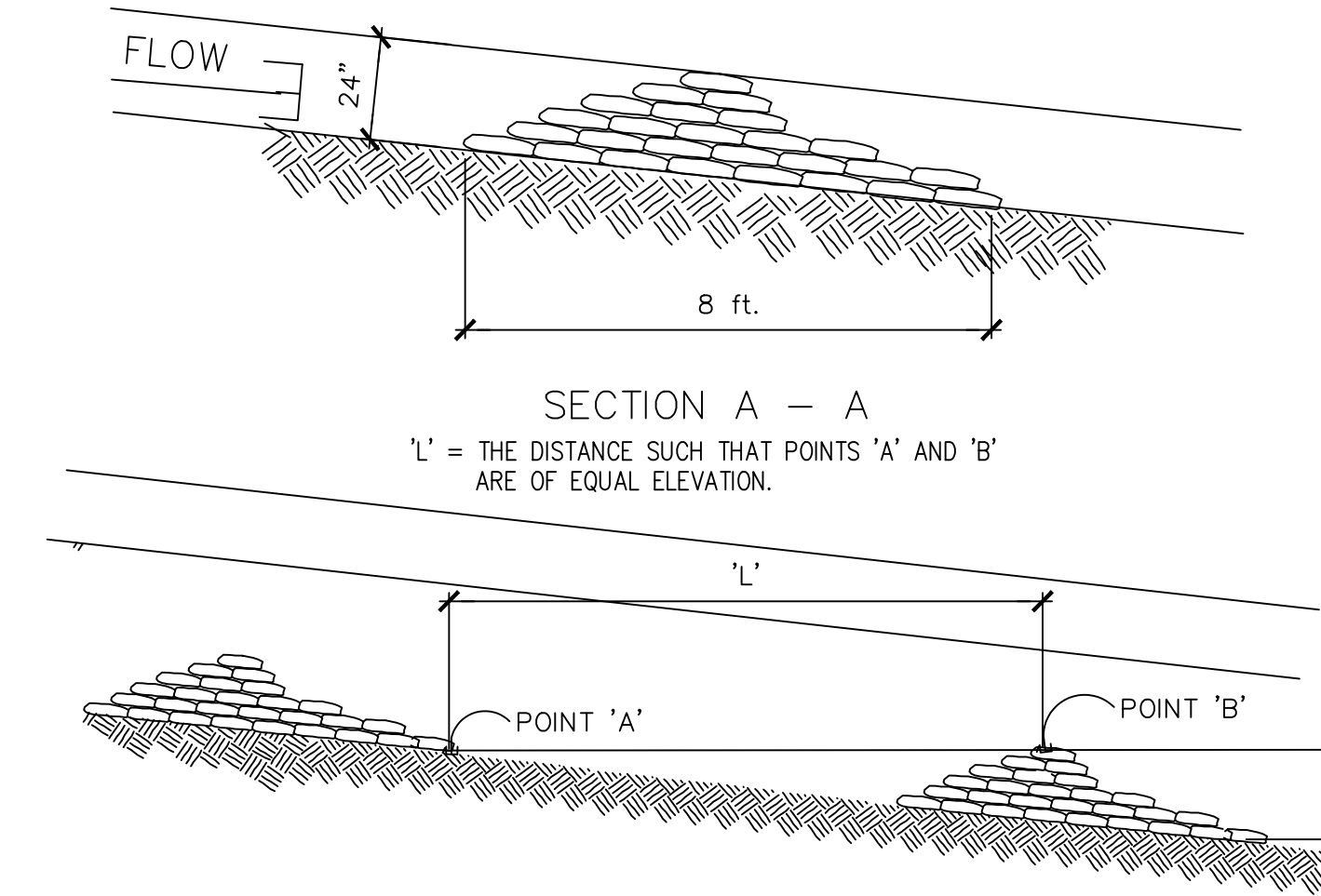
SILT TRAP TYPE "C"
 N.T.S.

DROP BOX INLET PROTECTION NOTE:
 ALL INLET & OUTLET PROTECTION TO BE IN CONFORMANCE WITH THE KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE



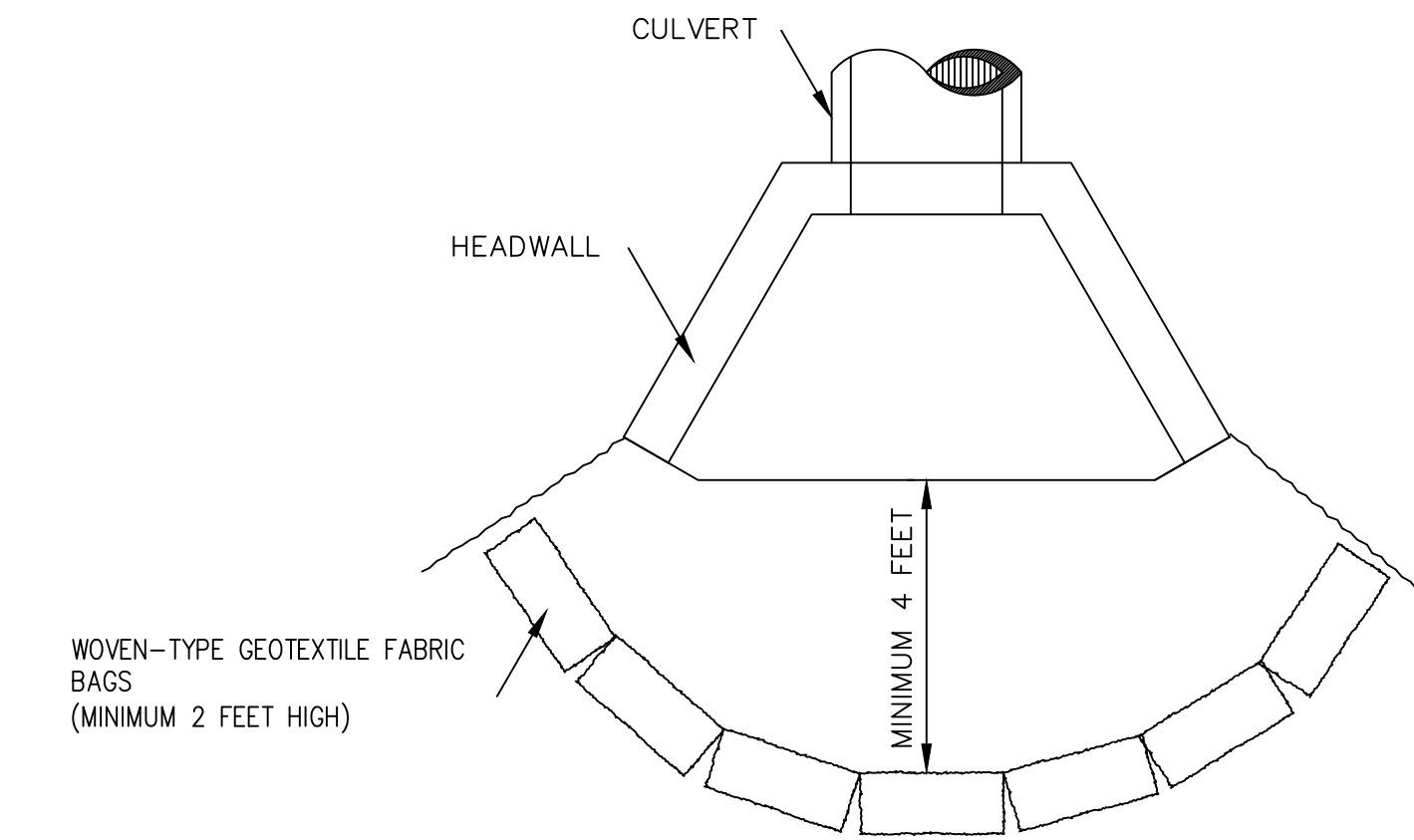
VIEW LOOKING UPSTREAM

STONE FILLED BAG CHECK DAMS MUST BE PLACED IN CHANNEL BY HAND, WITH THE TIED ENDS OF THE BAGS POINTING UPSTREAM AND THE CENTER OVERFLOW AREA AT LEAST 6" LOWER THAN THE OUTER EDGE. THE HIGHER ENDS OF THE CHECK DAM MUST TIE TO THE CHANNEL TO PREVENT BYPASS.



SPACING BETWEEN CHECK DAMS

SILT CHECK DAM TYPE "D"
 N.T.S.



CULVERT INLET SEDIMENT BARRIER TYPE "B"
 N.T.S.

NOTES
 1. SEE STANDARD SPECIFICATIONS FOR POST SIZE, GEOTEXTILE FABRIC, WIRE STAPLES AND ALL OTHER PERTINENT INFORMATION.
 2. POSTS MAY BE WOODEN OR METAL T-SECTION.
 3. POSTS SHALL BE SET 1'-4" DEEP.
 4. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
 5. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 6. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.



EROSION CONTROL NOTES

The Seed Academy
 Lake Cumberland Regional AgriTech Center
 Russell Springs, Kentucky

PROJECT NO.	DATE	REVISION	BY
2078-34			
DESIGNED BY	C.A.R.		
DRAWN BY	J.R.M.		
CHECKED BY	C.A.R.		
REVIEWED BY	C.A.R.		
DATE	JANUARY 2024		
SCALE	AS NOTED		

Engineers
 Architects
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nse
 OF KENTUCKY, INC.
 624 Wellington Way
 Russell Springs, KY 40386
 Phone: (606) 225-5684
 Fax: (606) 225-2607
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DRAWING NO.

EC-1

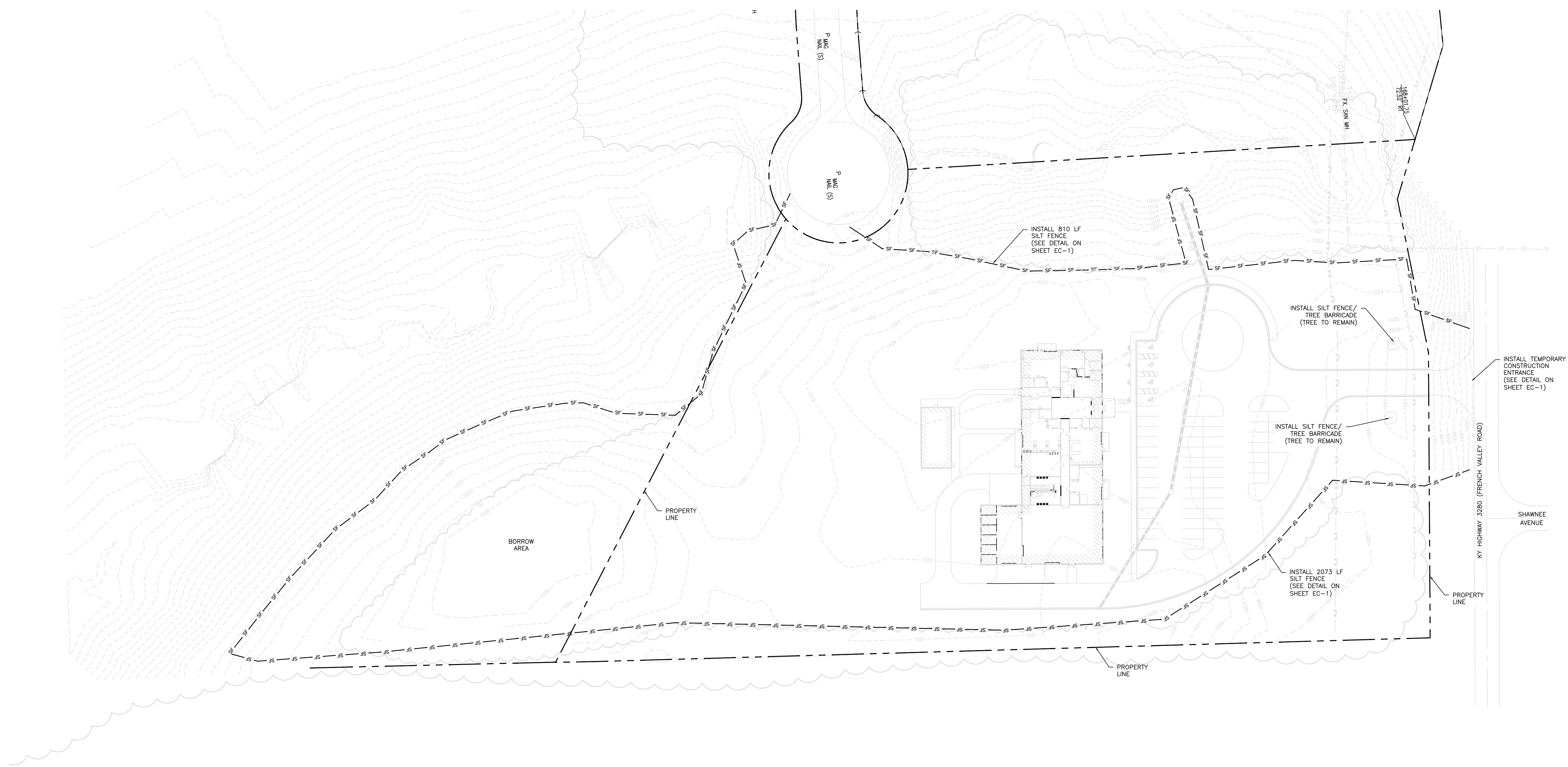
SHEET OF



EROSION CONTROL PLAN

The Seed Academy

Lake Cumberland Regional AgriTech Center
Russell Springs, Kentucky



DATE	REVISION	BY

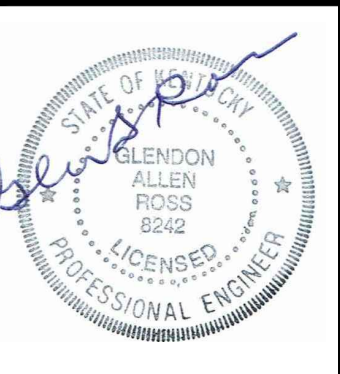
PROJECT NO. 2078-34	DESIGNED BY C.A.R.	DRAWN BY J.R.M.	CHECKED BY C.A.R.	REVIEWED BY C.A.R.	DATE JANUARY 2024	SCALE AS NOTED
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nse
OF KENTUCKY, INC.

Engineers
Architects
Planners

624 Wellington Way
Russell Springs, KY 40381
Phone: (609)225-5694
Fax: (609)225-2607
www.nseinc.com

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SITE PLAN

The Seed Academy

Lake Cumberland Regional AgriTech Center
Russell Springs, Kentucky

DATE	REVISION	BY
7/23	HC AREA REVISIONS	GRH

PROJECT NO. 2018-34
DESIGNED BY G.A.R.
DRAWN BY J.R.M.
CHECKED BY G.A.R.
REVIEWED BY G.A.R.
DATE JANUARY 2024
SCALE AS NOTED

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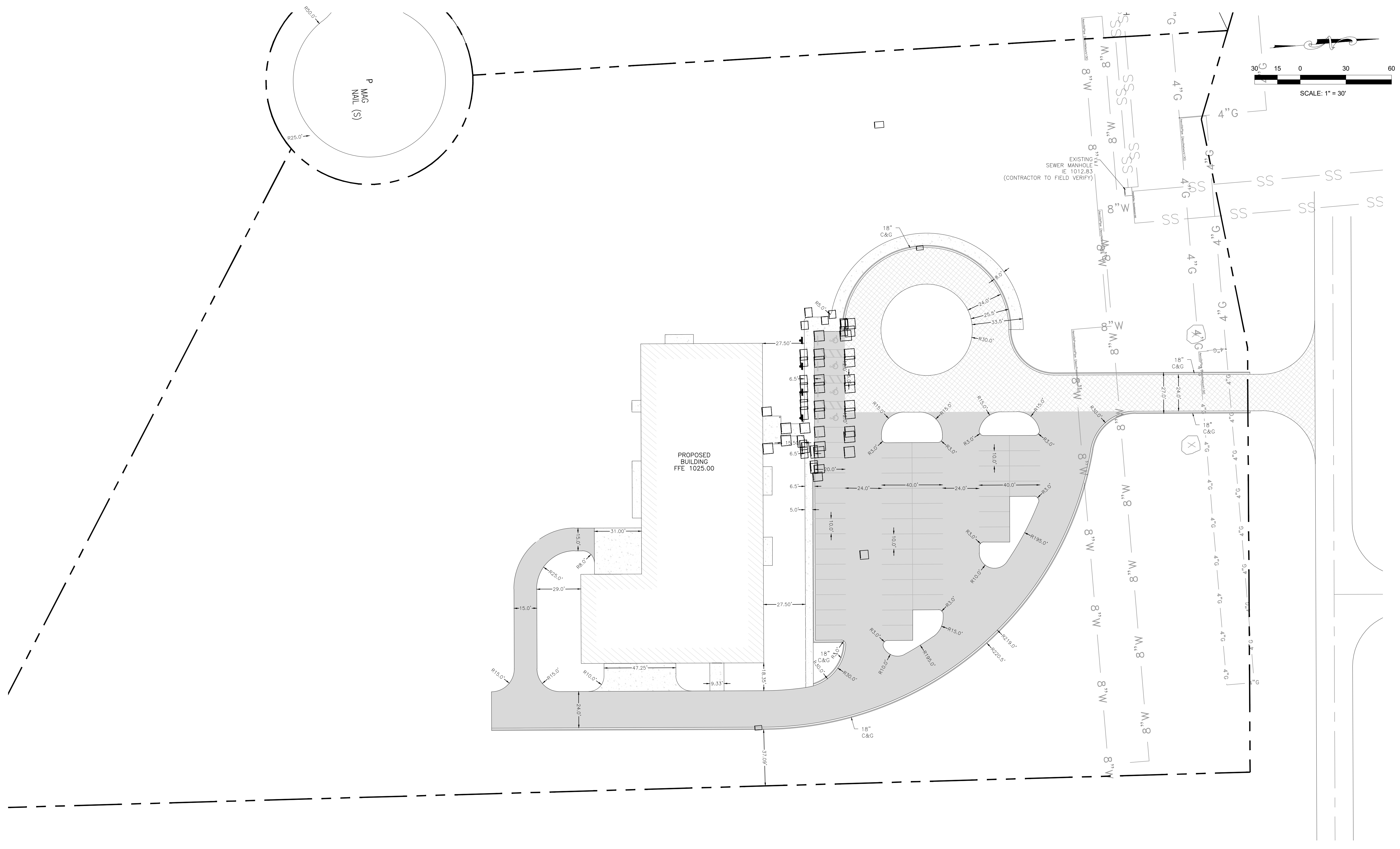
624 Wellington Way
Crestwood, KY 40003
www.nseks.com

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Fax: (859)223-2607

DRAWING NO.

C-1

SHEET OF

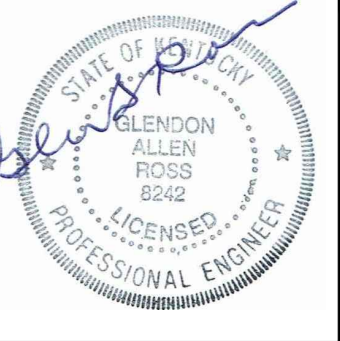


- NOTES:
1. ALL PARKING LOT STRIPING TO BE PLACED AS SHOWN, SEE DETAIL SHEET FOR HANDICAP PARKING DETAILS.
 2. ALL DISTURBED AREAS TO BE SEEDED PER THE 03296 SPECIFICATION.

HEAVY DUTY PAVEMENT

LIGHT DUTY PAVEMENT

CONCRETE PAVEMENT



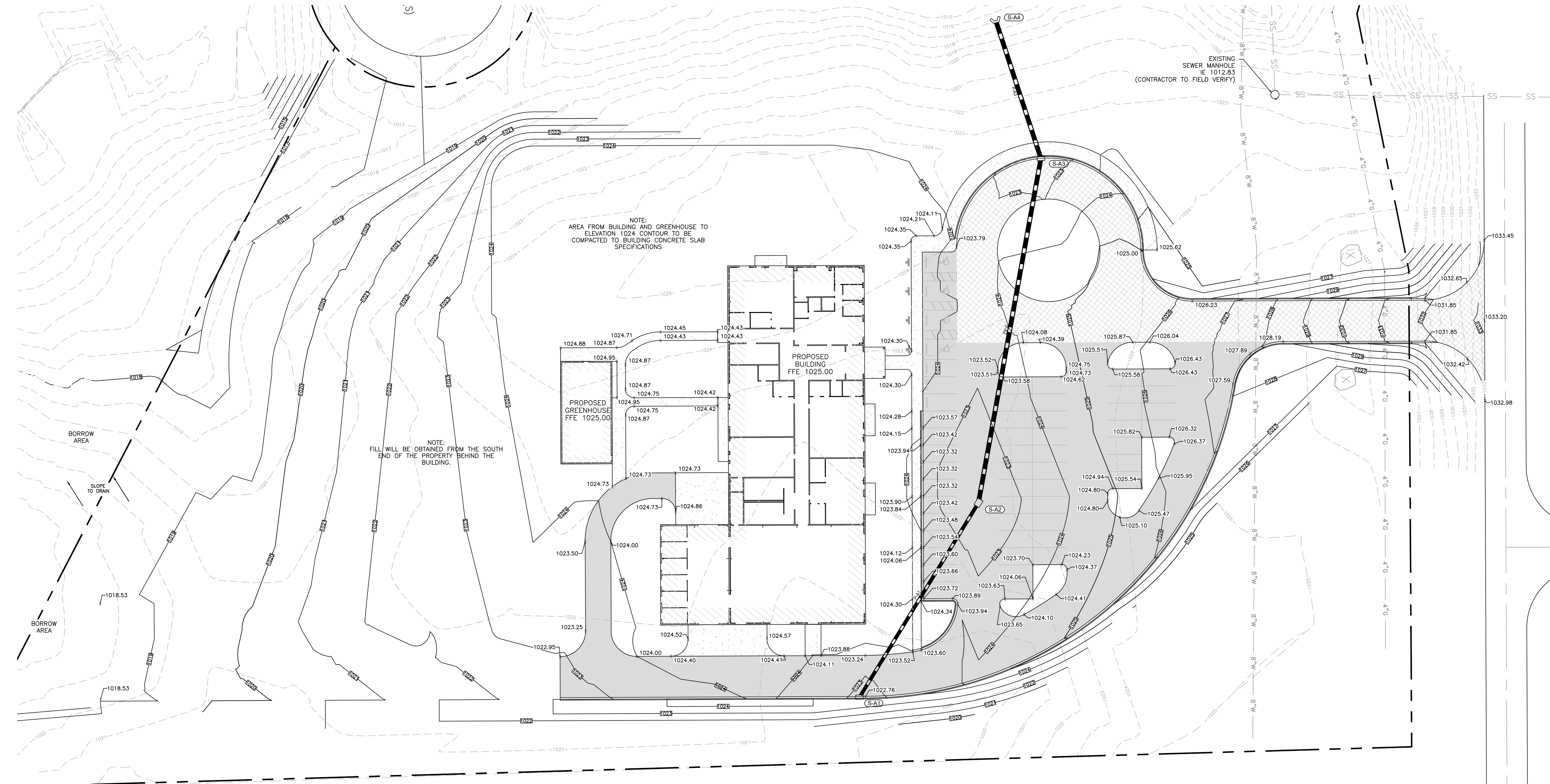
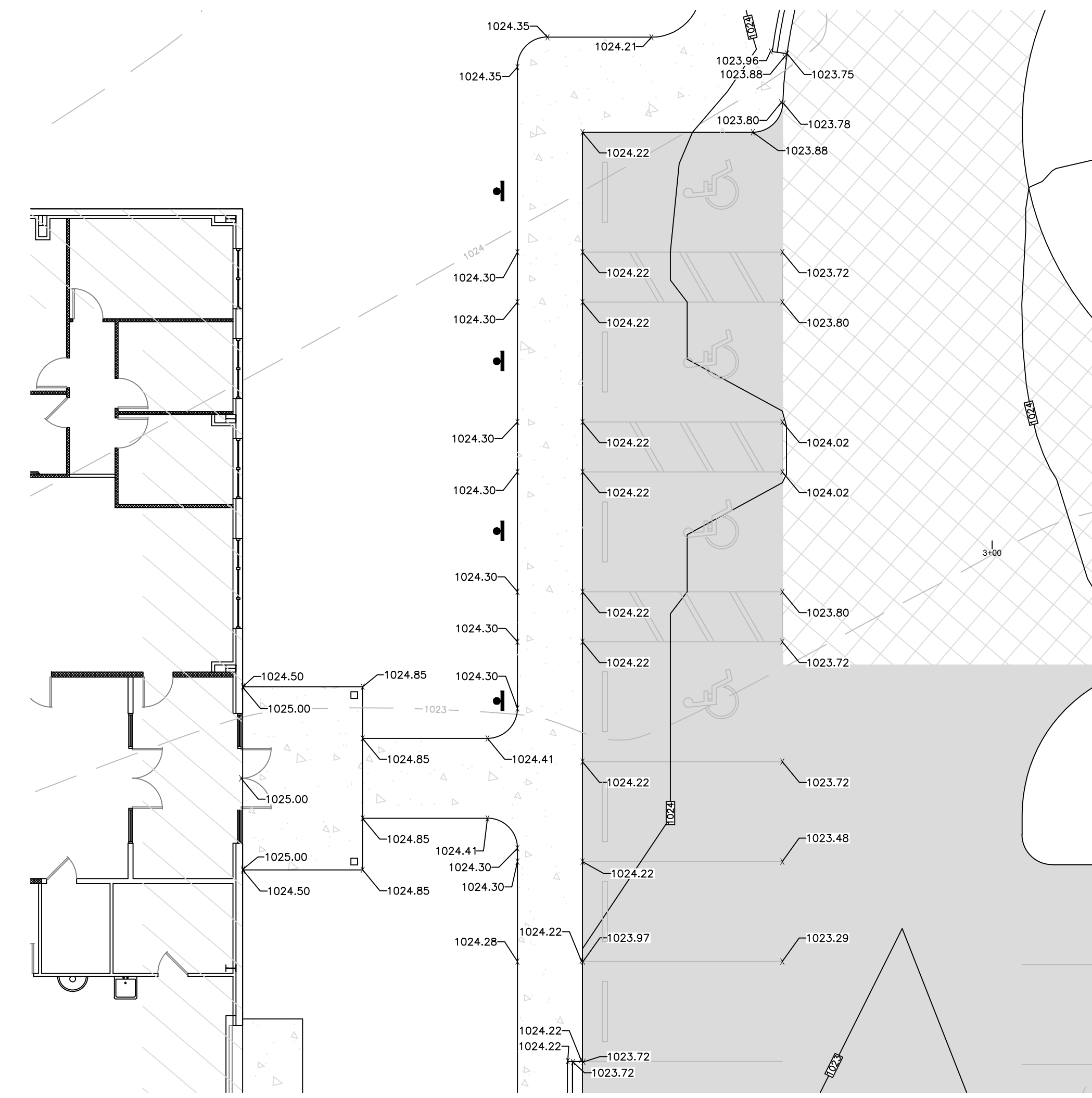
DATE	REVISION	BY
7/23	HC AREA REVISIONS	JUR/T

PROJECT NO.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE	SCALE
20178-34	C.A.R.	J.R.M.	C.A.R.	JANUARY 2024	AS NOTED

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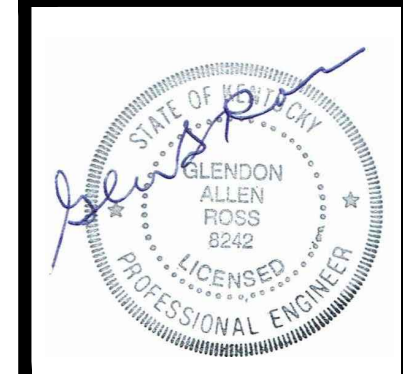
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Structure Name	RW	IE	Type
S-A1	1022.96	P-A1 1019.75	CURB INLET TYPE 'A' RDB-270-09
S-A2	1022.29	P-A1 1019.08 P-A2 1019.08	DROP INLET TYPE '6" RDB-006-08
S-A3	1022.50	P-A2 1018.05 P-A3 1018.05	CURB INLET TYPE 'A' RDB-270-09
S-A4	1019.75	P-A3 1017.00	HEADWALL RDB-020-03

Pipe Name	Size	Length	Slope	Material
P-A1	18"	133.4	0.50%	ADS N12-WT
P-A2	24"	204.9	0.50%	ADS N12-WT
P-A3	24"	84.3	1.24%	ADS N12-WT



SITE DETAILS

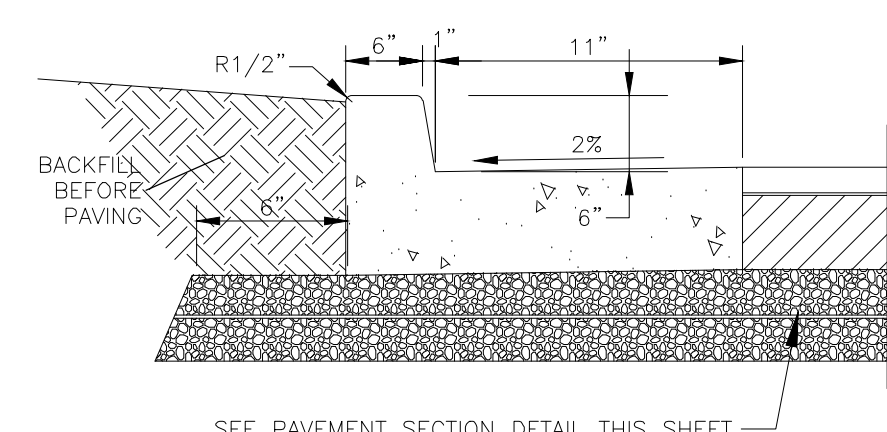
The Seed Academy
 Lake Cumberland Regional AgriTech Center
 Russell Springs, Kentucky

DATE	REVISION	BY	DATE
7/23	ADDED HC AREA DETAILS	JRT	

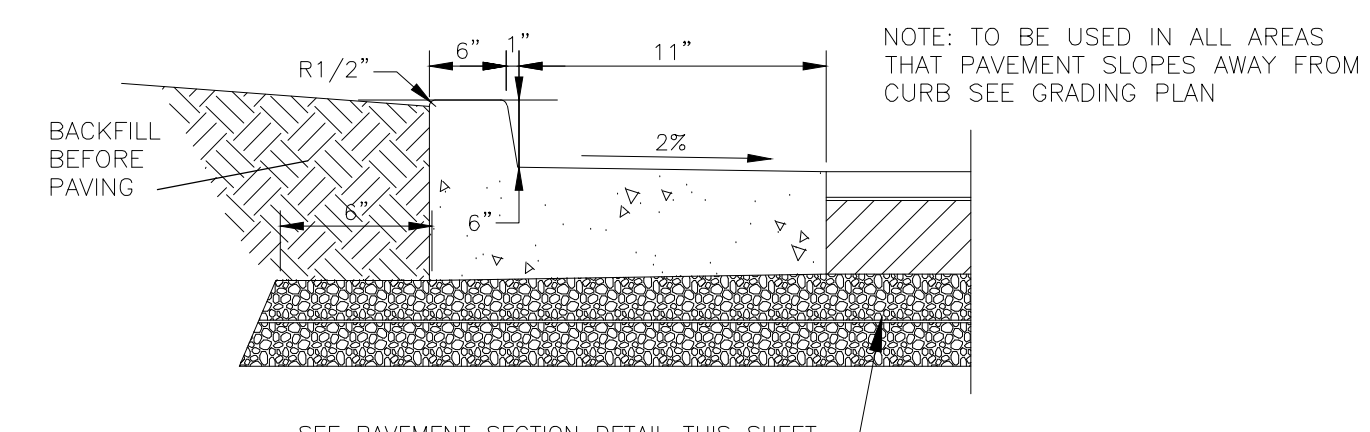
PROJECT NO. 2019-34
 DESIGNED BY: C.A.R.
 DRAWN BY: J.R.M.
 CHECKED BY: C.A.R.
 DATE: JANUARY 2024
 SCALE: AS NOTED

Engineers
 Architects
 Planners
nse
 OF KENTUCKY, INC.
 Phone: (609)225-5684
 Fax: (609)225-6607
 624 Wellington Way
 P.O. Box 103
 www.nseinc.com

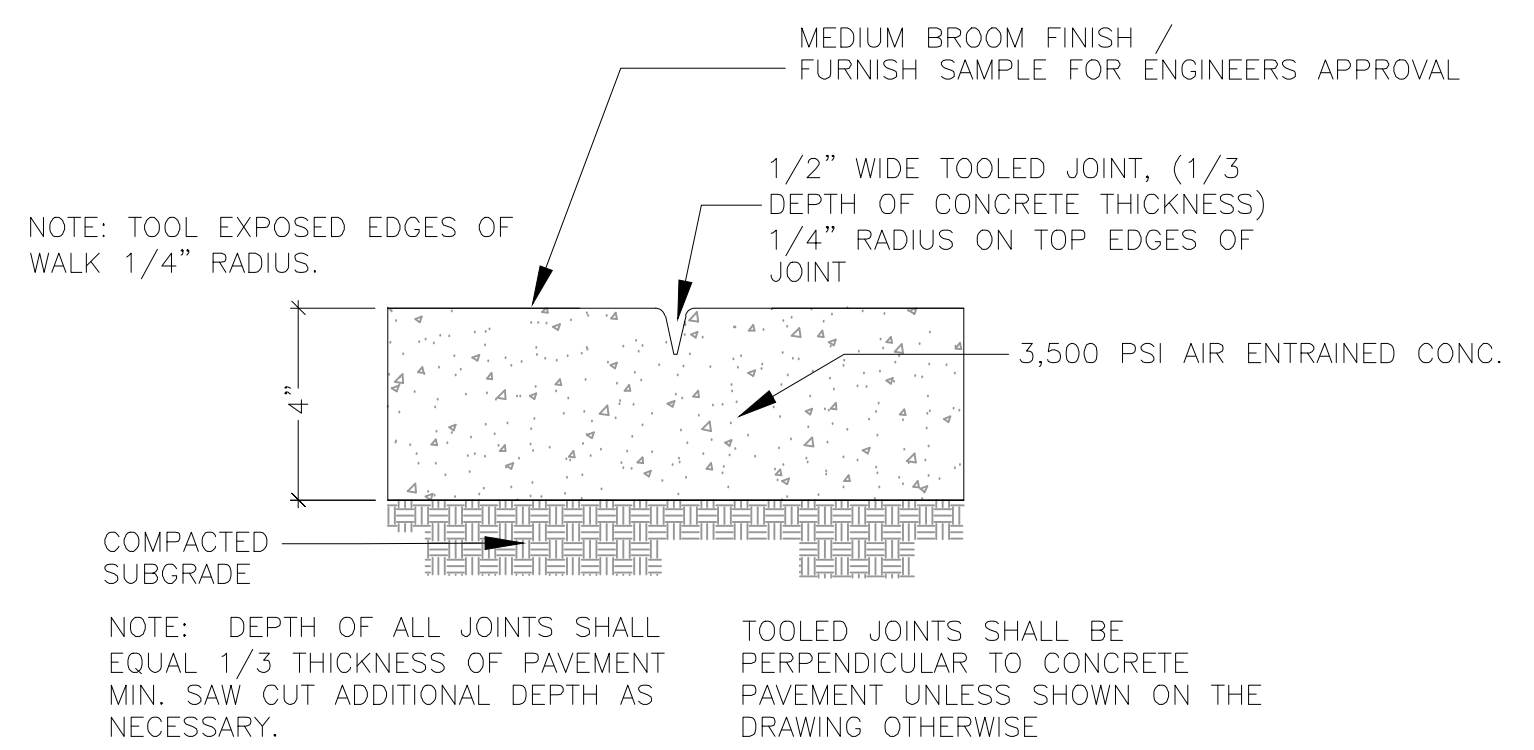
DRAWING NO.
C-3
 SHEET OF



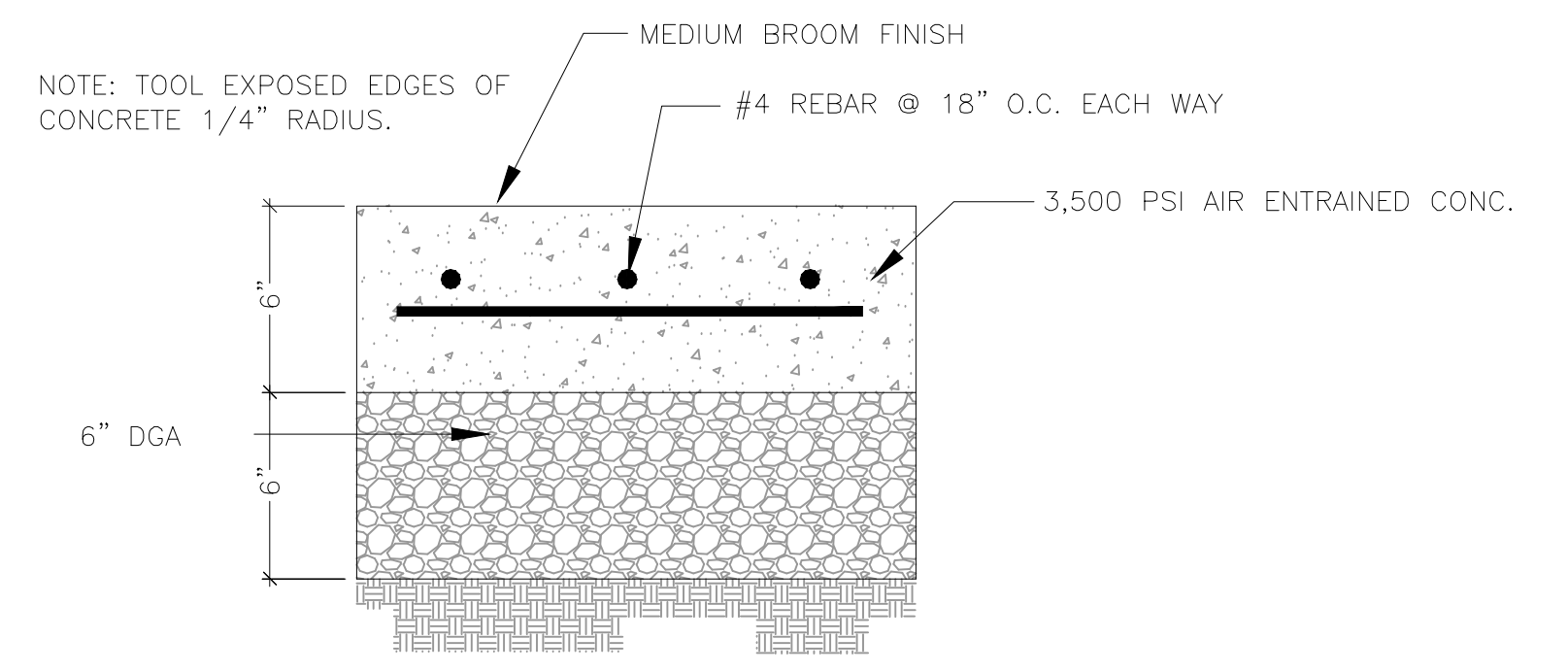
STANDARD CURB & GUTTER DETAIL
 N.T.S.



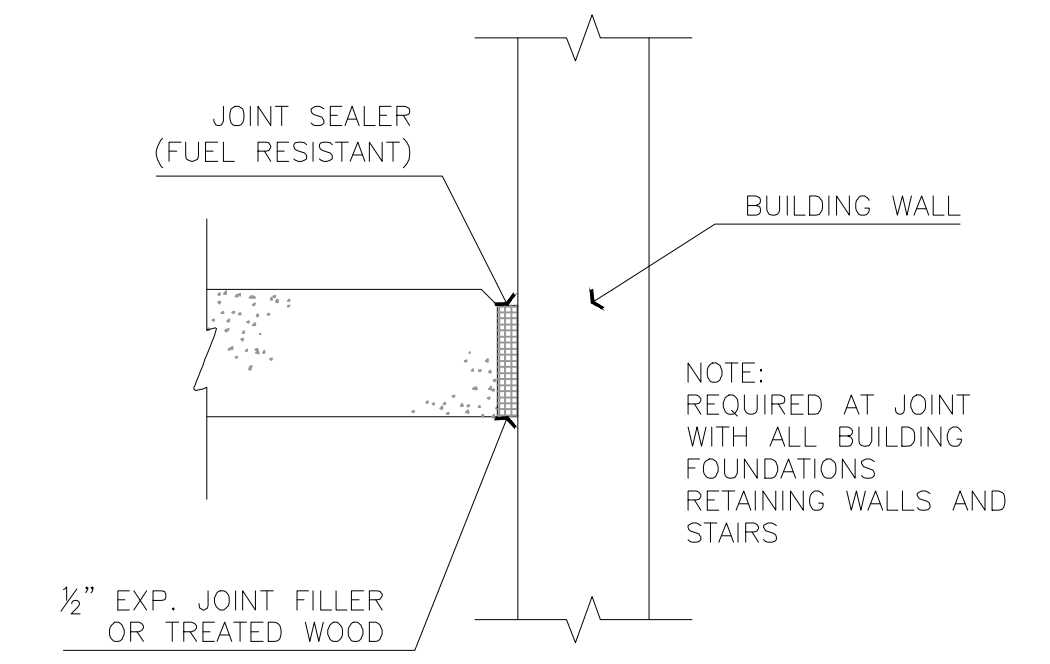
ALTERNATE CURB & GUTTER DETAIL
 N.T.S.



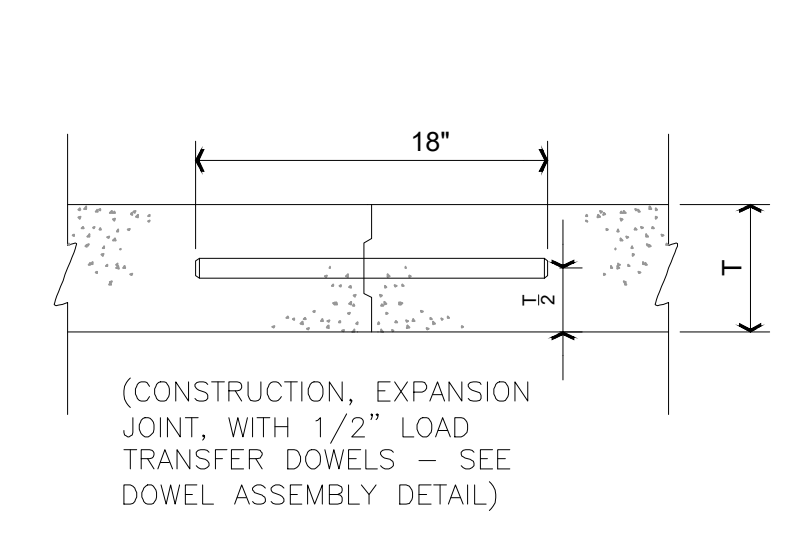
CONCRETE WALK / TOOLED CONTROL JOINT
 N.T.S.



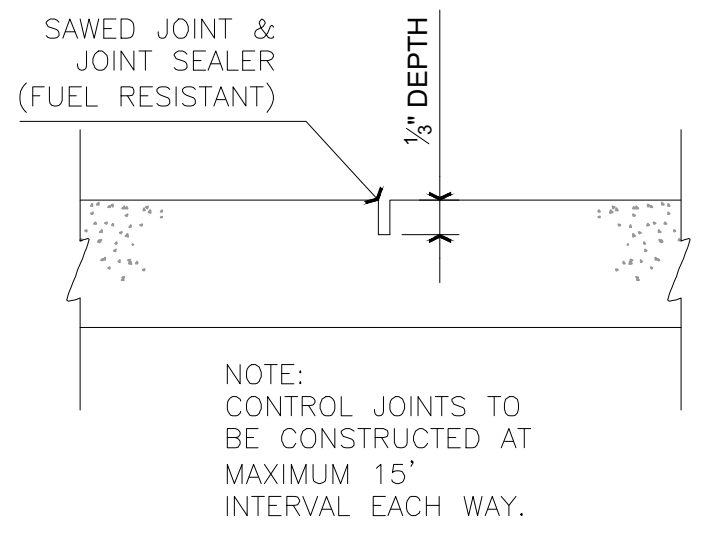
EXTERIOR CONCRETE PAVEMENT AT LIVESTOCK TRAINING AREA
 N.T.S.



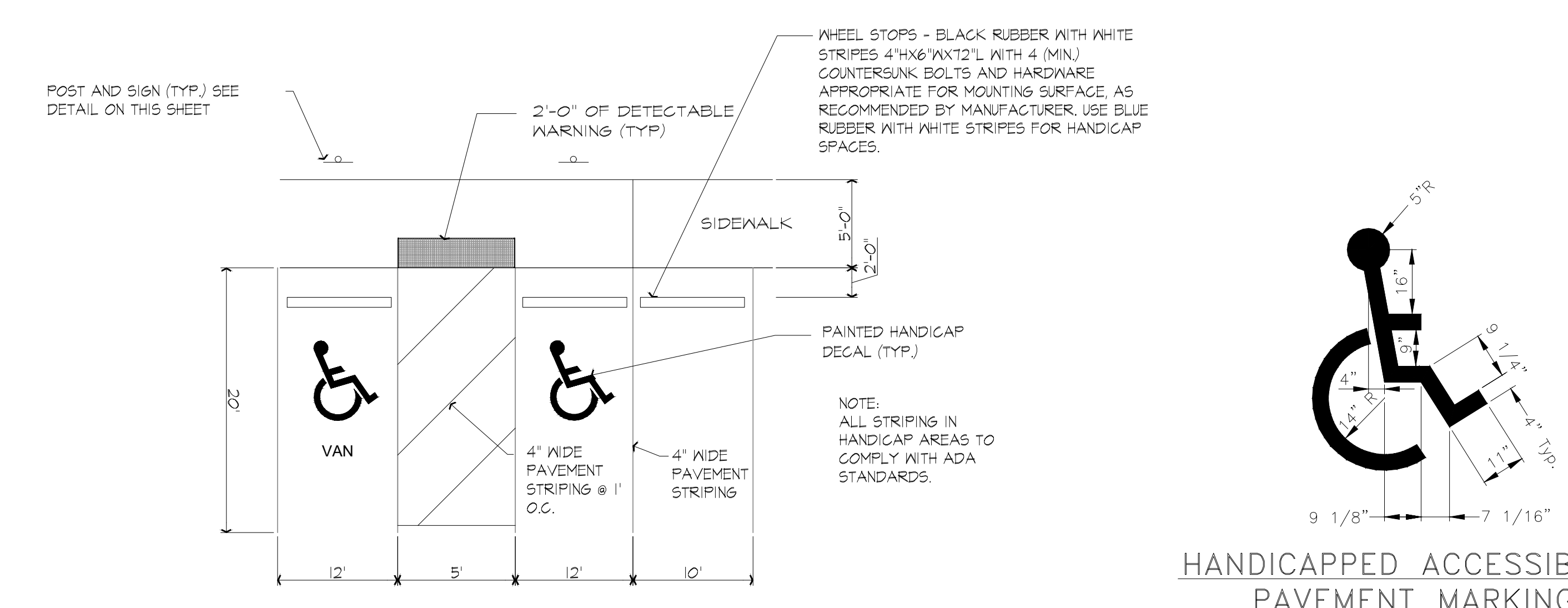
CONCRETE PAVEMENT EXPANSION JOINT
 N.T.S.



CONCRETE PAVEMENT CONTROL JOINT
 N.T.S.

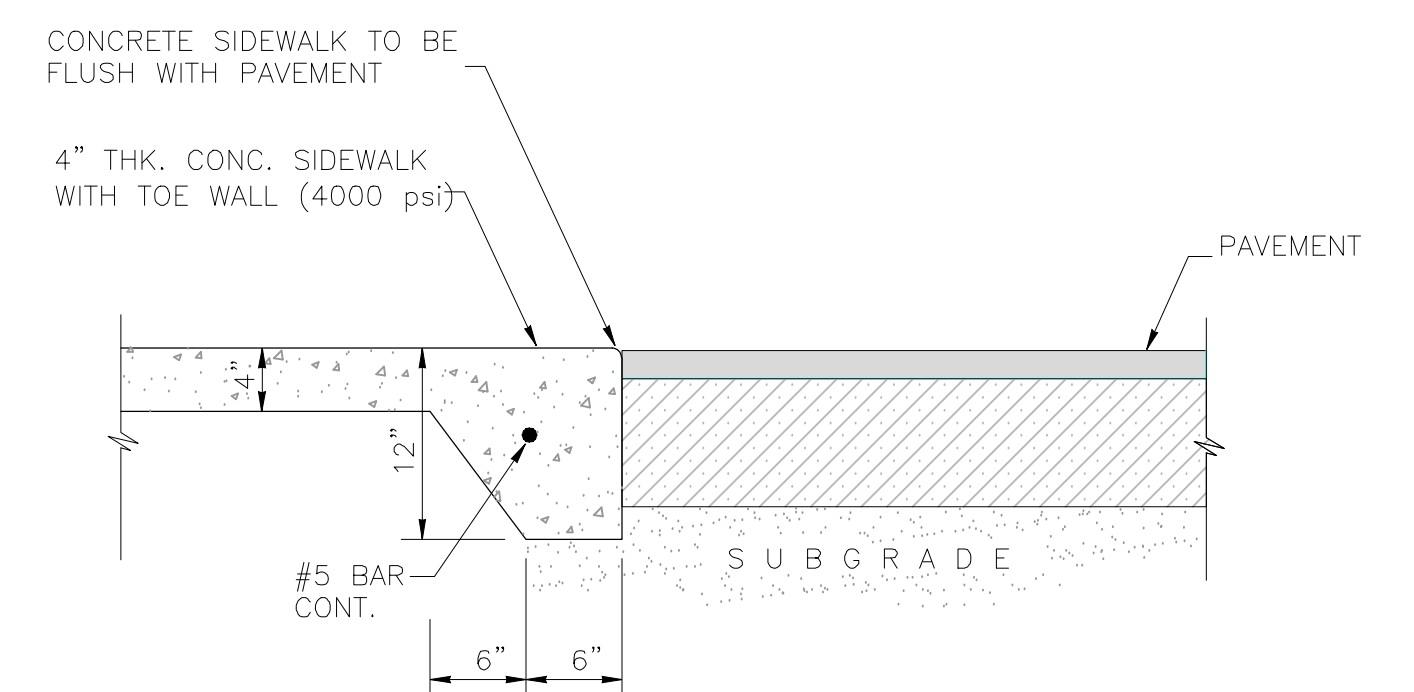


CONCRETE PAVEMENT TRANSVERSE JOINT
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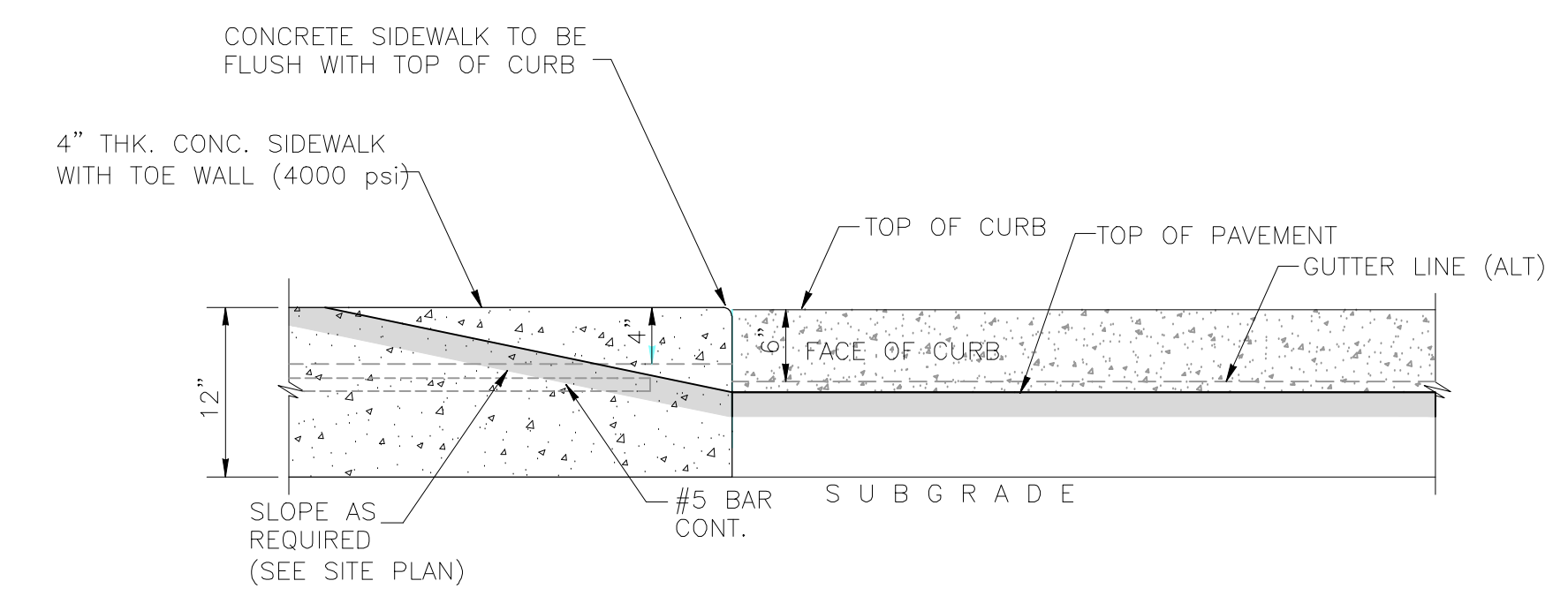


HANDICAP PARKING STRIPING DETAILS
 SCALE 1/8"=1'-0"

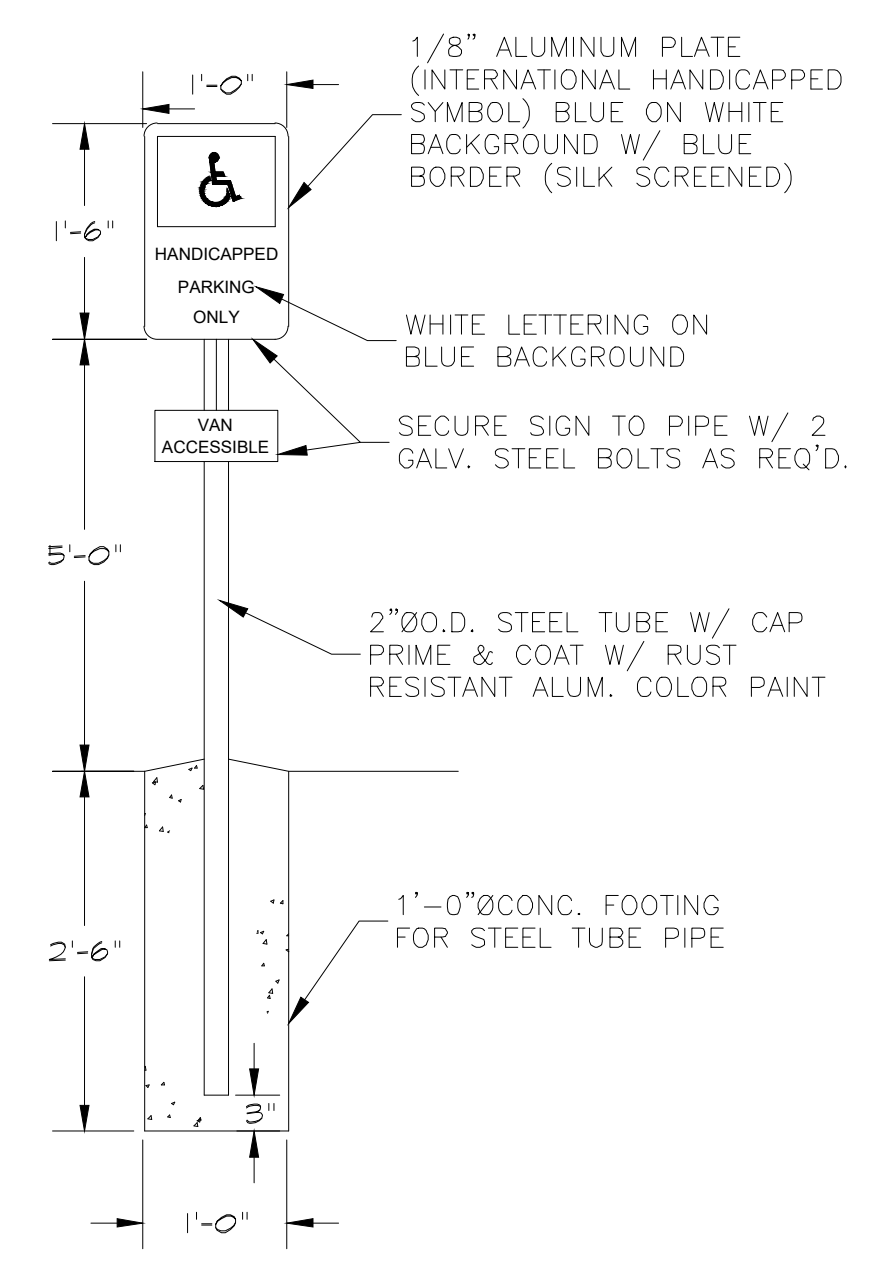
HANDICAPPED ACCESSIBILITY PAVEMENT MARKING
 N.T.S.



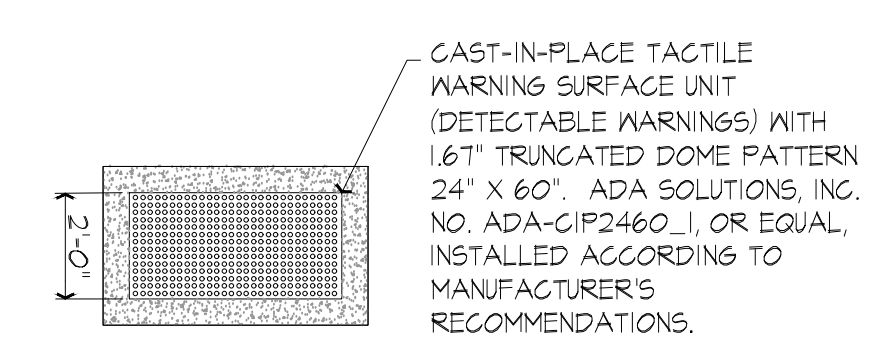
HANDICAP AREA SIDEWALK TRANSITION TO ASPHALT DETAIL
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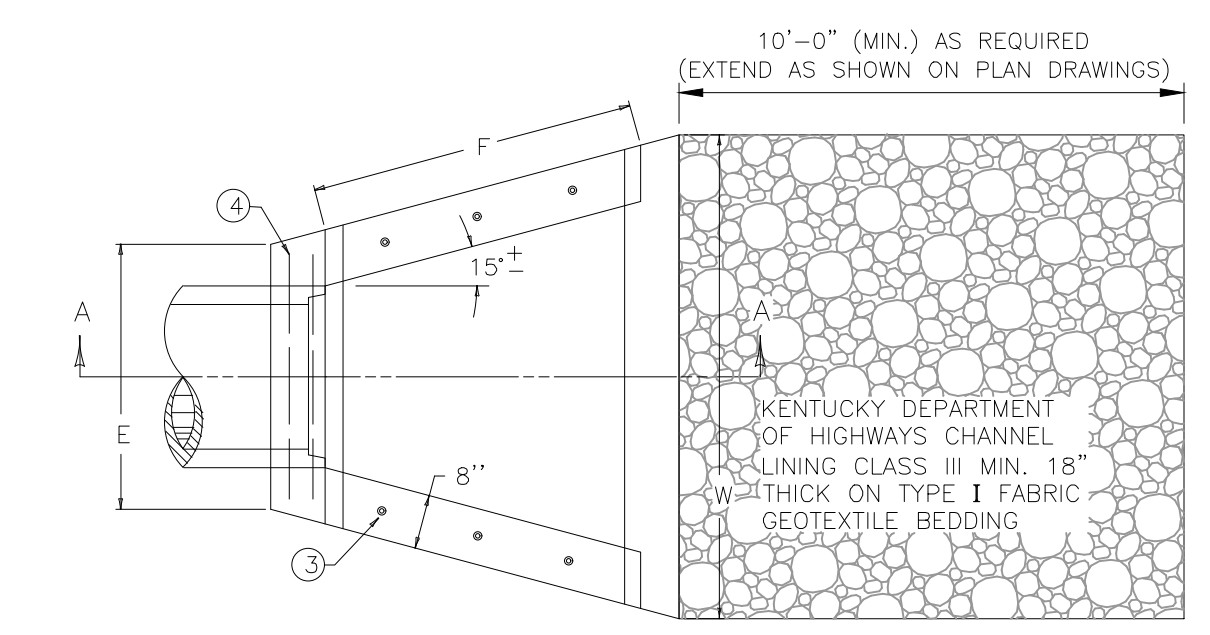
HANDICAP AREA SIDEWALK TRANSITION TO CURB & GUTTER DETAIL (TYP)
 N.T.S.



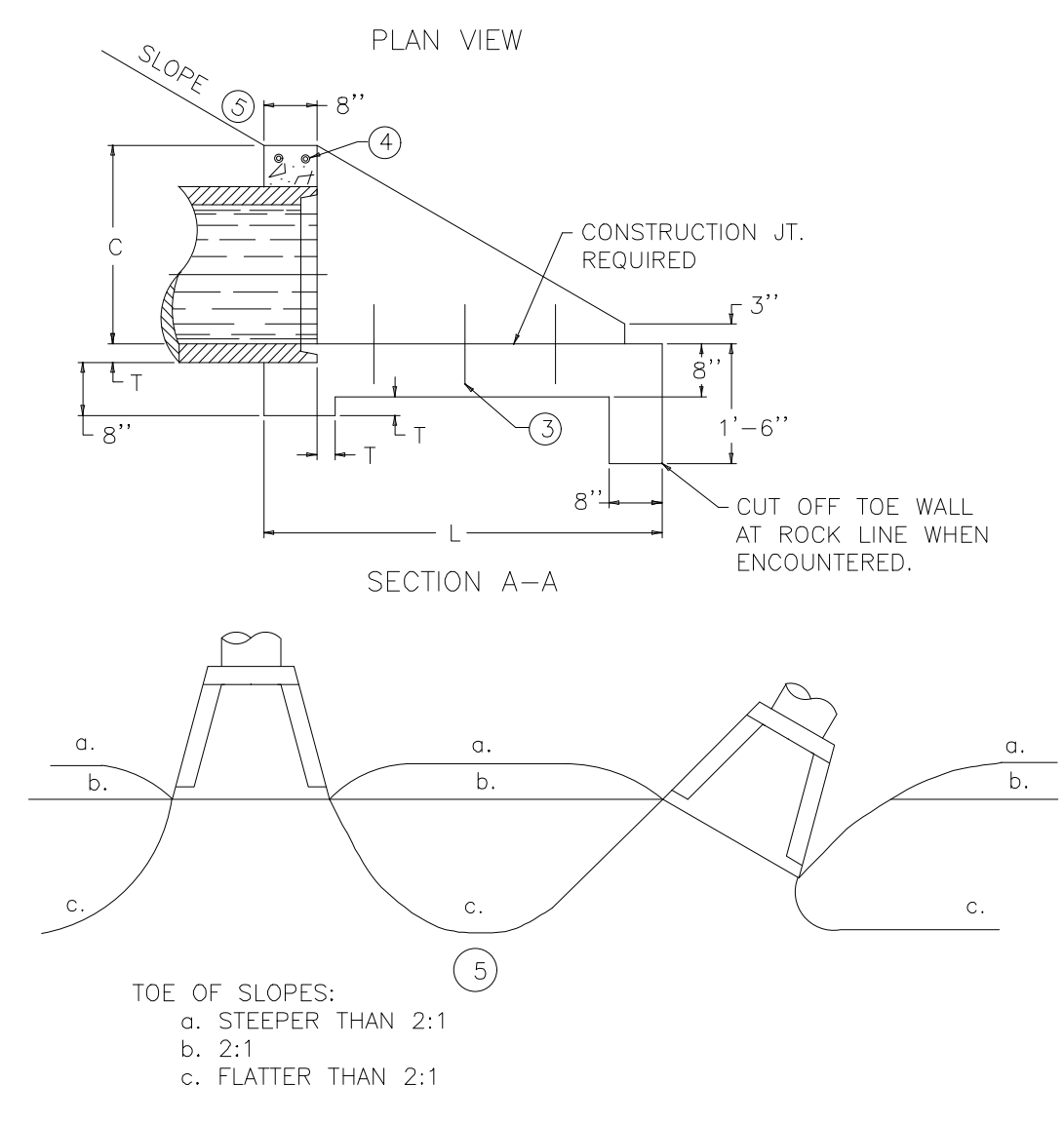
HANDICAPPED VAN PARKING SIGN
 N.T.S.



DETECTABLE (TACTILE) WARNINGS
 N.T.S.

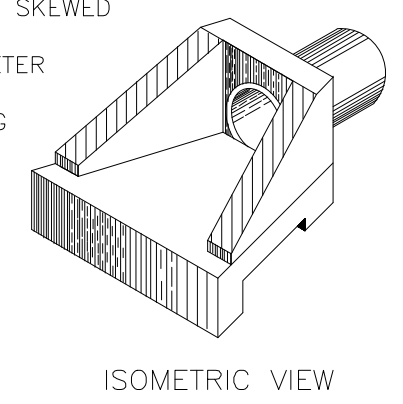


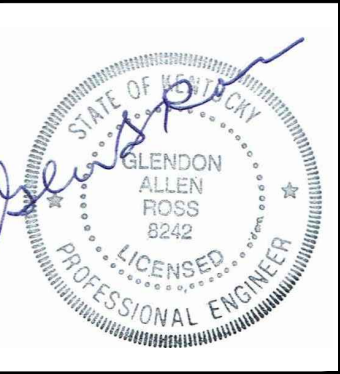
PIPE DIA. OR EQUIV. DIA.	SHAPE	DIMENSIONS						CLASS A CONC.	REIN. STEEL C. Y.	LBS.
		C	E	F	L	W	T			
12"	⊙	1'-9"	2'-6"	2'-3"	3'-6"	4'-0"	2"	0.58	7	
15"	⊙	2'-0"	2'-9"	2'-9"	4'-0"	4'-9"	2-1/4"	0.75	7	
	⊙	1'-9"	3'-0"	2'-6"	3'-6"	4'-9"	2-1/4"	0.68	8	
18"	⊙	2'-3"	3'-0"	3'-6"	4'-6"	5'-3"	2-1/2"	0.93	8	
	⊙	2'-0"	3'-6"	3'-0"	4'-0"	5'-6"	2-3/4"	1.14	9	
21"	⊙	2'-3"	3'-0"	3'-6"	4'-6"	6'-0"	3"	1.07	9	
	⊙	2'-9"	3'-6"	4'-6"	5'-6"	6'-6"	3"	1.35	8	
24"	⊙	2'-6"	4'-0"	4'-0"	5'-0"	6'-9"	3-1/4"	1.30	8	
	⊙	3'-0"	3'-9"	5'-0"	6'-0"	7'-0"	3-1/4"	1.57	9	
27"	⊙	2'-9"	4'-6"	4'-3"	5'-3"	7'-3"	3-1/2"	1.51	10	



SLOPED & FLARED HEADWALLS FOR 12" TO 27" PIPE
 DOH STD. DWG#: RDH-020-03

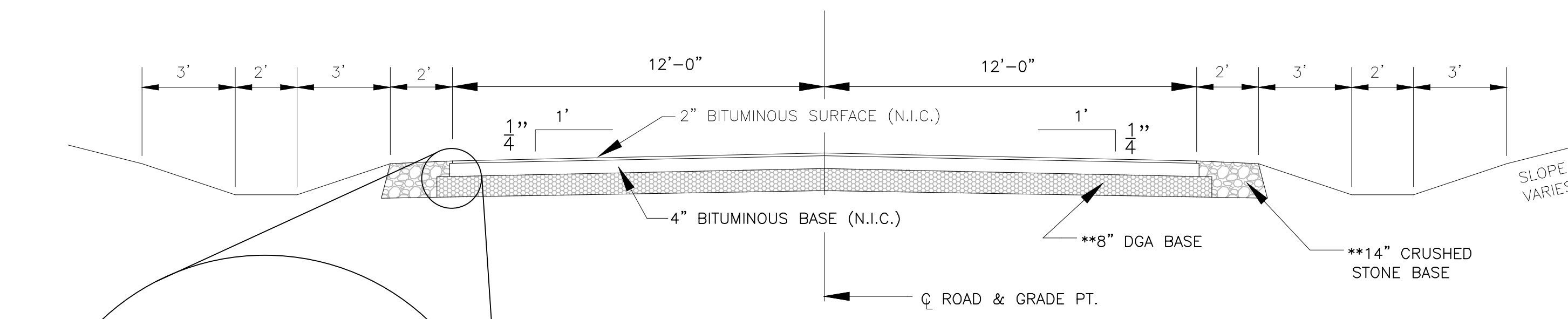
- NOTES
- DIMENSIONS AND QUANTITIES ARE BASED ON CONCRETE PIPE AND WILL VARY INSIGNIFICANTLY FOR CORRUGATED METAL PIPE.
 - REINFORCING STEEL: MINIMUM GRADE 40, BARS EVENLY SPACED.
 - 6 - NO. 4 x 1'-0" DOWEL BARS.
 - 2 - NO. 4 x (E DIMENSION MINUS 4")
 - SLOPES SHALL BE WARPED TO FIT HEADWALL WHEN PIPE IS SKEWED AND/OR NORMAL SLOPE VARIES FROM 2:1.
 - VOLUME DISPLACED BY PIPE COMPUTED USING INSIDE DIAMETER OF PIPE.
 - WING ANGLES AND/OR DIMENSIONS MAY BE ALTERED DURING CONSTRUCTION TO ACCOMMODATE FLOW OF WATER.
 - APRON BETWEEN WINGS SHALL BE SLOPED IN DIRECTION OF FLOW EQUAL TO SLOPE OF PIPE. FRONT FACE OF HEADWALL SHALL REMAIN VERTICAL.
 - HEADWALLS ARE FOR CIRCULAR, ARCH, AND HORIZONTAL ELLIPTICAL 12" - 27" EQUIVALENT PIPE SIZES. SEE CURRENT STD. DWG. RDI-018, FOR NON-CIRCULAR PIPE EQUIVALENT SIZES.



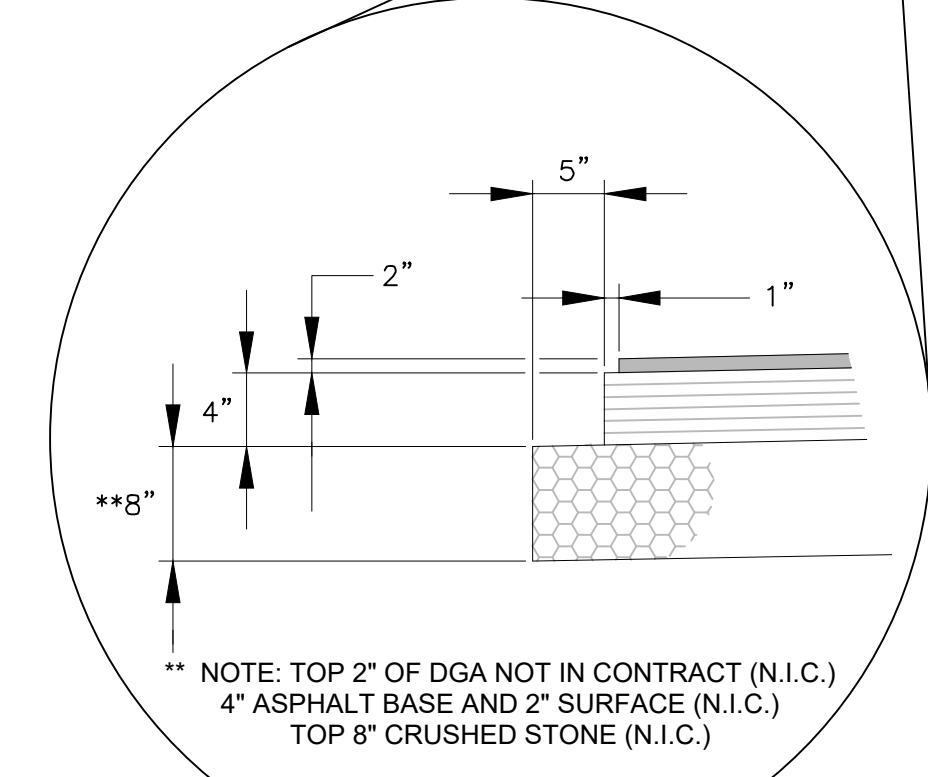


SITE DETAILS

The Seed Academy
Lake Cumberland Regional AgriTech Center
Russell Springs, Kentucky



TYPICAL ROADWAY SECTION
N.T.S.



** NOTE: TOP 2" OF DGA NOT IN CONTRACT (N.I.C.)
4" ASPHALT BASE AND 2" SURFACE (N.I.C.)
TOP 8" CRUSHED STONE (N.I.C.)

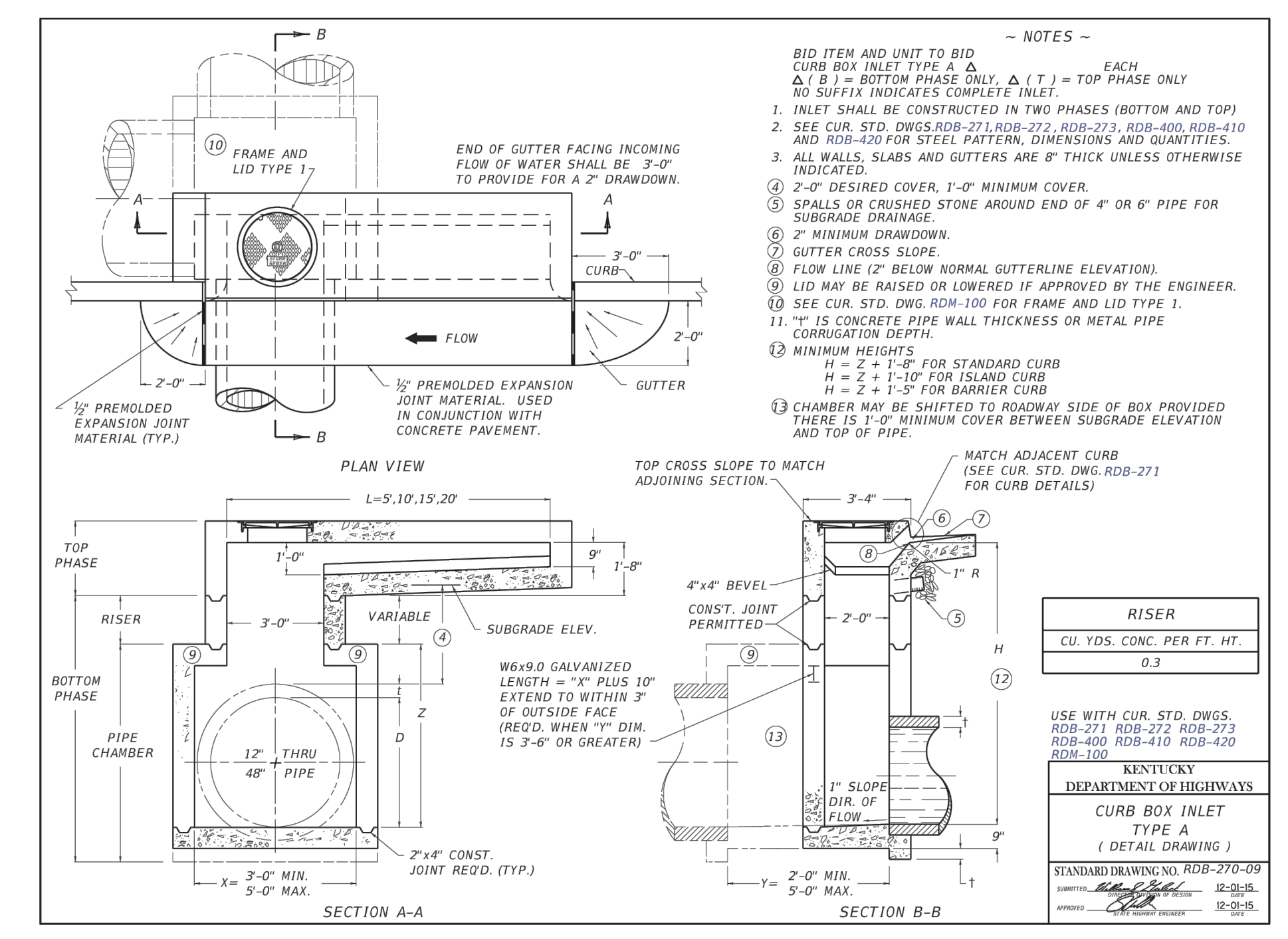
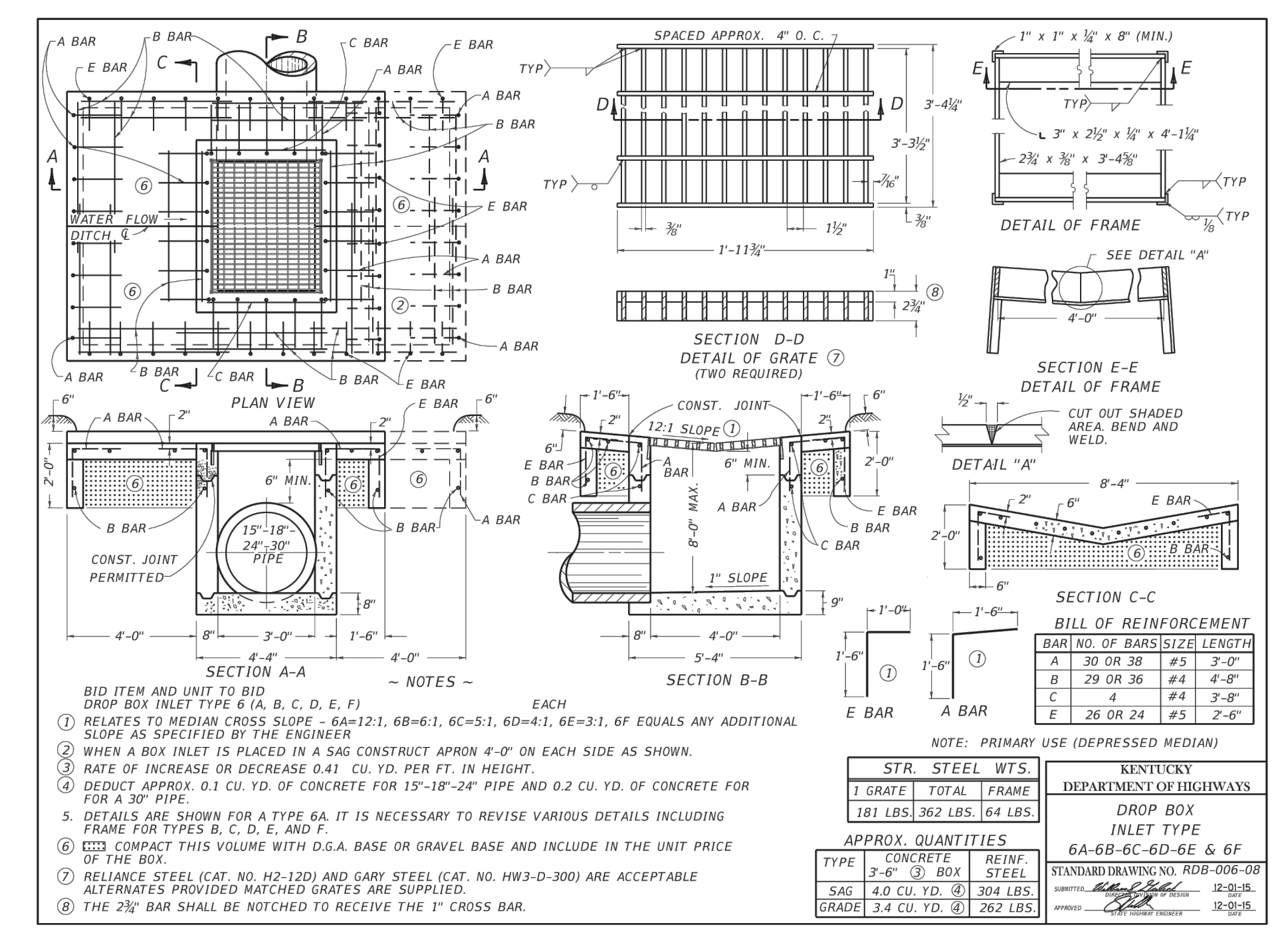
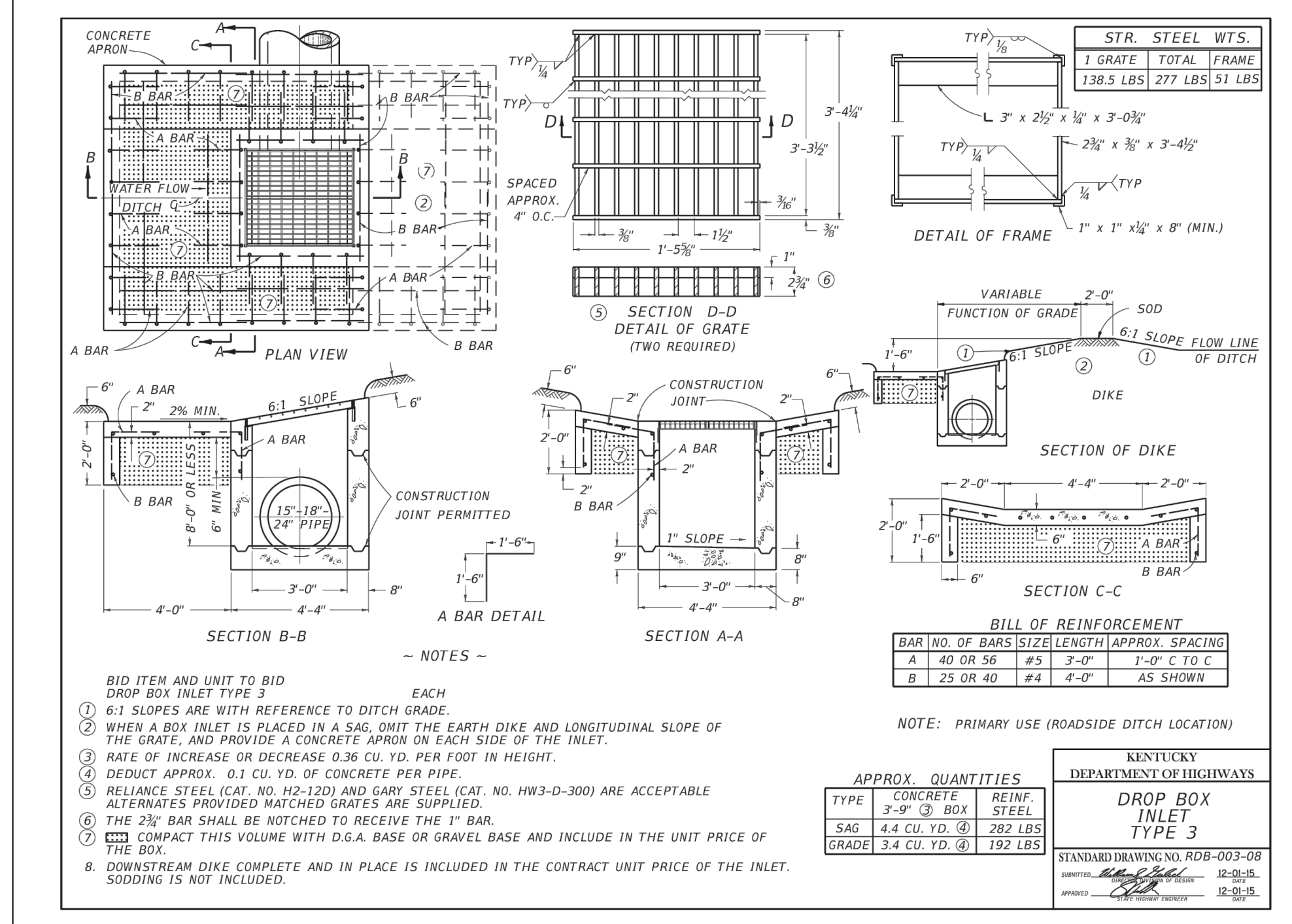


Table with columns for PROJECT NO., DATE, DESIGNED BY, DRAWN BY, CHECKED BY, REVIEWED BY, and SCALE. Includes a revision table with columns for DATE, REVISION, and BY.

Engineers
Architects
Planners
OF KENTUCKY, INC.
624 Wellington Way
Russell Springs, KY 40371
Phone: (609) 225-5684
Fax: (609) 225-2607
www.firesak.com

GENERAL NOTES

DESIGN DATA:

- a) Applicable Code: 2018 Kentucky Building Code
- b) Design Loads
 - 1. Roof Loads

Self Weight (min)	5 psf
Collateral - Primary	8 psf
Collateral - Secondary	8 psf
Reference M-Sheets for suspended Mechanical Loads.	
Live Load	16 psf
 - 2. Elevated Floor Loads: Not Applicable
 - 3. Wind Loads:

Basic Wind Speed	115 mph
Wind Importance Factor (Iw)	1.00
Building Occupancy Category	II
Wind Exposure Class	C
Internal Pressure Coefficient (GCpi)	+0.18

Components and Cladding (Non-Professional Design)

Wind Pressure - Walls	
Field	-34.2 psf
Corner	-40.6 psf
Wind Pressure - Roof	
Field	-34.2 psf
Edge	-44.6 psf
Corner	-44.6 psf
 - 4. Seismic:

Seismic Importance Factor (Ie)	1.0
Seismic Use Group	2
Mapped Spectral Response Accelerations	
S_s	0.16g
S_1	0.06g
Spectral Response Coefficients	
S_{DS}	0.187g
S_{D1}	0.019g
Site Class	D
Seismic Design Category	B
Basic Seismic-Force-Resisting System	OSMF
Design Base Shear	0.046 x Dead Load
Seismic Response Coefficient (Cs)	0.046
Response Modification Factor (R)	3.5
Analysis Procedure	Equivalent Lateral
 - 5. Roof Snow:

Ground Snow Load (Pg)	15 psf
Flat Roof Snow Load (P _f)	15.0 psf
Snow Exposure Factor (Ce)	0.04
Snow Load Importance Factor (Is)	1.0
Thermal Factor (Ct)	1.0
 - 6. Rain Loads:

Water Depth	1 in
-------------	------

Note:
The water depth is defined as the depth of water above the roof surface at the location of the primary roof drains. Increased water depth resulting from member deflection has been considered in the structural design.

- SOIL PROPERTIES:
- a) Geotechnical Data: Allowable pressures for design.

Allowable Bearing Pressure Columns	2,000 psf
Allowable Bearing Pressure Walls	2,000 psf
 - b) Modulus of Subgrade Reaction (k value): 100 psi/in
 - c) The Frost Depth of the project site area is 24 inches.

- CONCRETE:
- a) Concrete at interior slabs on grade shall have a minimum compressive strength of 3500 psi at 28 days unless noted. All other concrete shall have a minimum compressive strength of 3,000 psi at 28 days unless noted.
 - b) Design and construction shall conform to the "Building Code Requirements for Structural Concrete - ACI 318-08 - Strength Design Method" and details shall conform to the "Manual of Standard Practice for Detailing Reinforced Concrete Structures" both the latest editions by the American Concrete Institute unless otherwise shown or specified.
 - c) Concrete subject to freezing and thawing shall have maximum water - cement (W/C) ratio of 0.50.
 - d) Concrete for interior slabs-on-grade shall have coarse aggregates graded such that not more than 10 percent or less than 8 percent of the total aggregate is retained on the 3/4", 1", 1 1/2" and number 4 sieves.

- REINFORCING STEEL:
- a) All reinforcing steel to be ASTM A615 Grade 60.
 - b) All reinforcing steel shall conform with CRSI Standards.
 - c) Reinforcing in concrete steel shall have development lengths and splice lengths as shown in the following tables unless otherwise shown on the drawings.

Bar Size	3,000 psi Concrete		4,000 psi Concrete	
	Development Length (inches)	Splice Length (inches)	Development Length (inches)	Splice Length (inches)
3	12	17	12	16
4	13	23	12	20
5	17	28	15	24
6	20	34	17	29
7	23	55	20	48
8	41	70	36	60

STRUCTURAL STEEL:

- a) All wide flange structural steel to be ASTM A992, grade 50. All other structural steel, plates and bars to be ASTM A36, unless noted otherwise. Bolts A325.
 - b) Design and construction shall conform to the "Specifications for the Design, Fabrication, and Erection of Structural Steel for Buildings" of the AISC unless otherwise shown or specified.
 - c) Connections: Unless otherwise detailed shall be standard connections using 3/4" diameter fasteners made in accordance with the latest edition of Construction Manual of the American Institute of Steel Construction. Unless otherwise detailed all bolted connections shall contain pre-tensioned bolts.
 - Shop Connections: May be welded or high tensile bolted, ASTM A325.
 - Field Connections: Shall be bolted with high tensile bolts, ASTM A325.
 - Bolted connections shall be assembled and inspected in accordance with RCSC-2004 (Specification for Structural Joints using ASTM A325 or ASTM A490 Bolts).
 - d) All bolted connections are to be pre-tensioned unless noted otherwise.
 - e) All structural steel tubing to be ASTM A500, grade B.
 - f) All welded connections shall satisfy the requirements of AWS D11.1/ D1.1 and shall be made with low hydrogen E70XX electrodes.
- POST INSTALLED ANCHORS
- a) Post-installed anchors and rebar secured with adhesive shall only be used where specified on the construction documents. The Contractor shall obtain approval from the architect or engineer of record prior to installing post-installed anchors in place of missing or misplaced anchors.
 - b) Acceptable post installed anchor products are listed below. Anchor products specified on the structural drawings must be used unless an alternate product is approved by the architect or engineer of record.
 - 1. Adhesive to Concrete
 - a. Adhesive Anchors
 - (1) Hilti HIT-RE 500-SD Epoxy Adhesive Anchoring System with HAS-E Threaded Rod.
 - (2) Simpson Strong-Tie SET-NP with Threaded Rod
 - b. Mechanical Anchors
 - (1) Hilti Kwik Bolt-TZ Expansion Anchors
 - (2) Simpson Strong-Tie Strong Bolt
 - 2. Rebar Doweling into Concrete
 - a. Hilti RE 500-SD Epoxy Adhesive Anchoring System with continuously deformed rebar.
 - b. Simpson Strong-Tie SET-NP with continuously deformed rebar.
- c) Substitution requests for alternate products must be approved in writing by the architect or structural engineer of record prior to use. Contractor shall provide calculations demonstrating that the substituted product is capable of achieving the performance values of the specified product. Substitutions will be evaluated by their having ICC ESR showing compliance with the relevant building code for seismic uses, load resistance, installation category and availability of comprehensive installation instructions. Adhesive anchor evaluation will also consider creep, in-service temperature and installation temperature.
- d) Post installed anchors must be installed in accordance with the manufacturer's printed installation instructions.
- e) The Contractor shall arrange an anchor manufacturer's representative to provide onsite installation training for all of their anchoring products specified unless installer provides proof of prior training. The Contractor must receive documented confirmation that all personnel who install anchors are trained prior to the commencement of installing anchors.
- f) Anchor capacity is dependent upon spacing between adjacent anchors and proximity of anchors to edge of concrete. Install anchors in accordance with spacing and edge clearances indicated on the drawings.
- g) Existing reinforcing bars in concrete structure may conflict with specific anchor locations. Unless noted on the drawings that the bars can be cut, the Contractor shall review the existing structural drawings and shall undertake to locate the position of the reinforcing bars at the locations the concrete anchors, by GPR, X-Ray, chipping or other means.
- h) Adhesive Anchor Requirements
 - 1. Anchors must not be installed until concrete is 21 days of age.
 - 2. Concrete temperature during anchor installation must not exceed 110F (short term) and 80F (long term).
 - 3. Concrete must be dry at the time of anchor installation.
 - 4. Holes must be drilled with a hammer drill and carbide bit.
 - 5. For horizontal, upwardly inclined and overhead installations, installer must be certified by an ACI/CRSI Adhesive Anchor Installer Certification Program or equivalent.

- GENERAL:
- a) All high strength bolted connections are to contain pre-tensioned bolts unless noted. Connections of joists to joist girders and joist girders to columns do not require pre-tensioned bolts and need only be snug tight.
 - b) The use of Alternate Design Fasteners is required, use the type that shears the spined end to indicate adequate tightness. Each fastener be tightened until the spined end and shears off. Fasteners with spined ends are not acceptable.
 - c) All bolts must be manufactured in North America.
 - d) All bolts must be installed. No empty bolt holes are permitted unless directed by the design engineer.
 - e) All high strength bolts (A325 and A490) require hardened washers under the turned element.
 - f) Bolt tensioning verification is required through the use of a Skidmore direct tension-indicating device or equivalent. This verification must be accomplished prior to tensioning the bolts in the building. This verification must be performed by the same persons as those who will tension the bolts in the structure.
 - g) A bazzooka level furnished by the erector will be required at the jobsite to be utilized by the erector in the verification that columns are plumb. The level is to be made available to the special steel inspector.

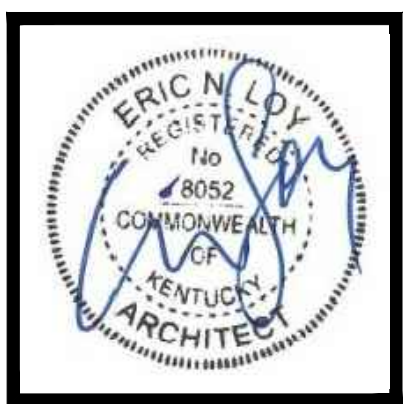
- h) The enlarging of holes or modification of members is permitted only with the documented direction of the design engineer.
- i) Burning to create new holes or enlarge existing holes is not permitted.
- j) All X-bracing must be straight
- k) Temporary bracing of the building is required. Temporary bracing to remain in place until all permanent bracing and roof deck is installed and all connections are completed including roof deck fastening. The bracing sizes and locations are the responsibility of the erector.
- l) Fastening of steel roof deck shall provide resistance to design wind loads through diaphragm action and shall conform with Steel Roof Deck Institute Design Manual including side lap fastening.
- m) The structure has been designed to meet the deflection criteria specified in "Serviceability Design Considerations for Low-Rise Buildings" published by American Institute of Steel Construction, Inc.
- n) All structural welded joints shall conform to the provisions of AWS D11.1 Structural Welding Code by the American Welding Society.

- SPECIAL INSPECTIONS:
- a) Engaging the Special Inspectors
The Owner and/or Architect must engage special inspectors to perform special inspections.
 - b) Steel Fabricator
The steel fabricator shall maintain written procedural and quality control manuals. The steel fabricator must be engaged with an approved special inspection agency that is performing periodic audits of the steel fabricator's operations. Upon completion of the fabrication, the fabricator must submit a "certificate of compliance" to the building official stating that the work was performed in accordance with approved construction documents.
 - c) Special Steel Inspector
The special steel inspector must be a AWS D11 Certified Welding Inspector (CWI) and a ASNT TGA Level Two Certified Technician.
 - d) Submittal of Field Welding Information
The steel erector must submit the welding materials, welding procedures, and welder qualifications to the special inspector for his approval. This approval must be made prior to any steel erection.
 - e) Periodic Inspection of Field Welds
The special steel inspector must provide periodic inspection of: 10% of all field welds; First 10% of all metal deck welds; 10% of all field welds of cold formed steel members.

Should any welds, other than deck welds, be found to be inadequate, then 100% of all similar welds must be inspected at the expense of the subcontractor.
 - f) Continuous Inspection of Field Welds
The special inspector must be present and provide continuous inspection of:
All fillet welds exceeding 3/8" size.
All multi-pass fillet welds.
All complete and partial penetration welds.

Continuous inspections shall be visual inspections unless noted on drawings or specifications.
 - g) High Strength Bolts (A325 or A490)
The erector shall provide a "tension measuring device" (Skidmore or equal) and schedule the bolting technique verification with special inspector. The special inspector shall observe the pre-installation testing and calibration procedures. The erector shall use the turn-of-the-nut method "matchmarking" techniques, direct tension indicator washers, or alternate design fasteners to tension the bolts. During this pre-installation testing, the steel inspector shall obtain calibrated torque wrench values for later inspection.

The Special Inspector must utilize a calibrated torque wrench to inspect the following:
10% of all bolted connection (of all bolts).
 - h) Concrete Inspector Requirements
The Special Concrete Inspector must be an ACI Level 1 technician.
 - i) Concrete Foundations
The Special Concrete Inspector shall inspect all foundations. This inspection shall include:
Confirmation of adequate soil condition
Verification of the use of the design mix
Sample fresh concrete as indicated in the specifications
 - j) Slabs on Grade
The Special Concrete Inspector shall inspect all slabs on grade. This inspection shall include:
Verification of adequate soil condition by observation of proof rolling
Verification of the use of the design mix
Sample fresh concrete as indicated in the specifications
 - k) Adhesive Anchors
All horizontal, upwardly inclined and overhead adhesive anchor installations must be continuously inspected for compliance with the adhesive system manufacturer's printed installation instructions (MPI).
 - l) Contractor's Statement of Responsibility
The Contractors responsible for any work requiring special inspection submit in a written statement to the prime design professional for submittal to the code officials:
Acknowledging the awareness of special requirements
Acknowledging that control will be exercised to obtain conformance with construction documents.
Defining procedures for exercising control.
Identifying the persons exercising control and stating their qualifications.



GENERAL NOTES

The Seed Academy
 Lake Cumberland Regional AgriTech Center
 Russell Springs, Kentucky

PROJECT NO.	DATE	REVISION	BY
2018-34			
DESIGNED BY	ENL		
DRAWN BY	ENL		
CHECKED BY	ENL		
REVIEWED BY	ENL		
DATE	JANUARY 2024		
SCALE	AS NOTED		

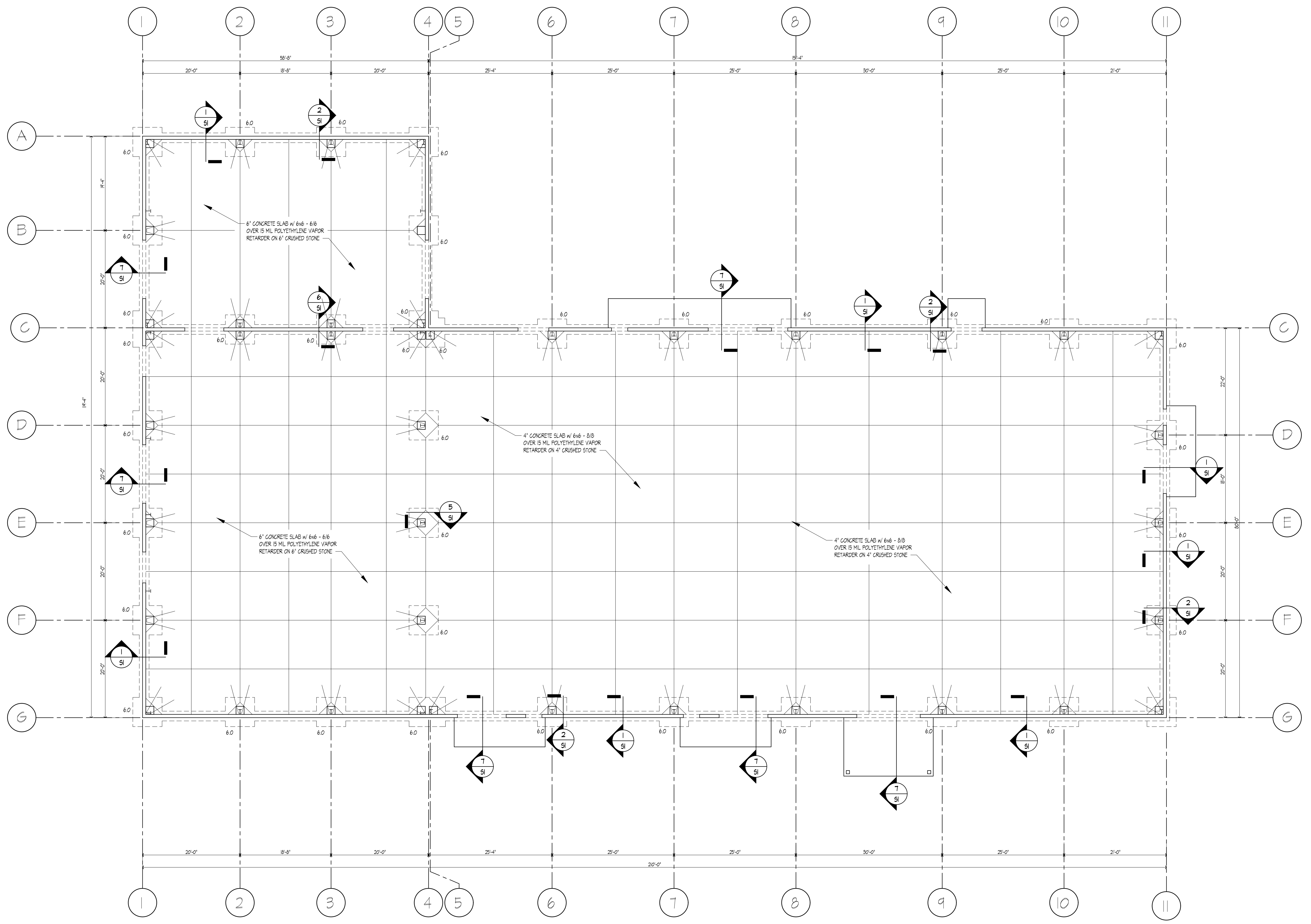
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FOUNDATION PLAN

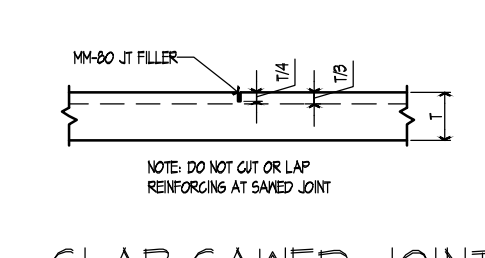
The Seed Academy
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Russell Springs, Kentucky



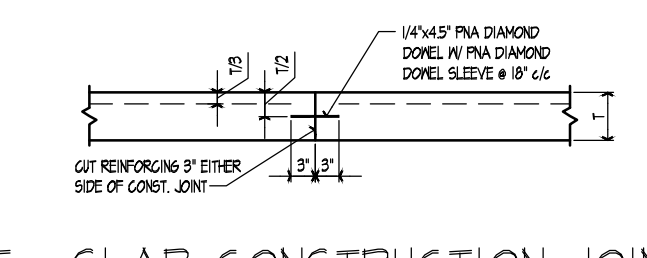
FOUNDATION PLAN (A) 1/8"=1'-0"

T.F. EXTERIOR/INTERIOR FOOTINGS = (-)2'-0" U.N.O.
FLOOR FLATNESS SHALL BE: FF=35 FI=25 OVERALL
FF=24 FI=16 LOCAL
NOTE: FINAL PEMB REACTIONS AND DRAWINGS WILL
DICTATE ACTUAL FOOTING SIZE, PIER SHAPE AND LAYOUT.

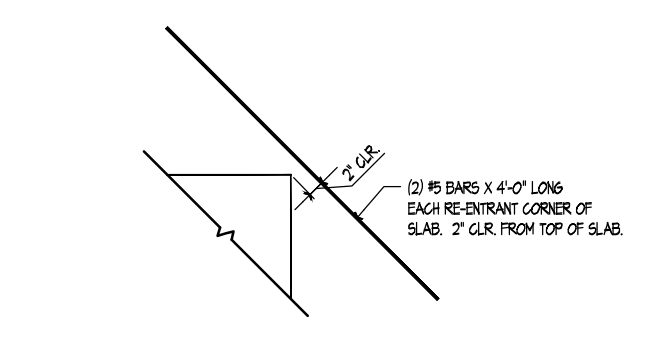
FOOTING SCHEDULE			
MARK	SIZE	REINFORCING	REMARK
3.0	3'-0" X 3'-0" X 16"	(4) #5 BARS EA. WAY	
6.0	6'-0" X 6'-0" X 16"	(8) #5 BARS EA. WAY	



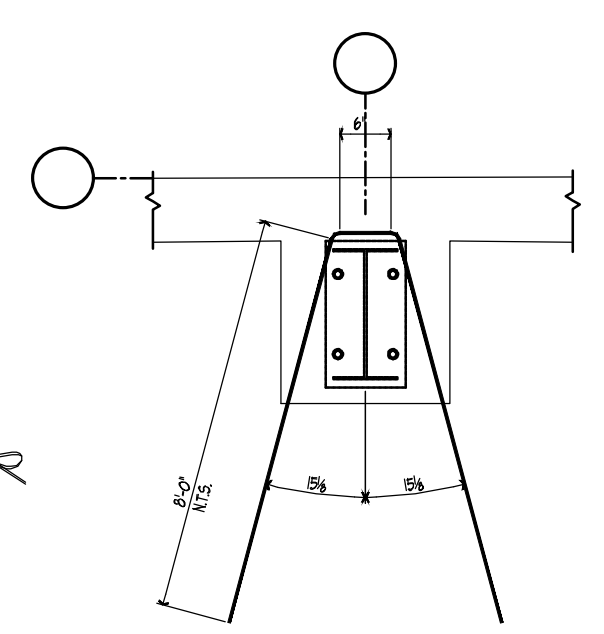
SLAB SAWED JOINT



SLAB CONSTRUCTION JOINT



SLAB RE-ENTRANT CORNER



DATE	REVISION	BY
MAY 23	UPDATED DEDUCTIVE ALTS.	

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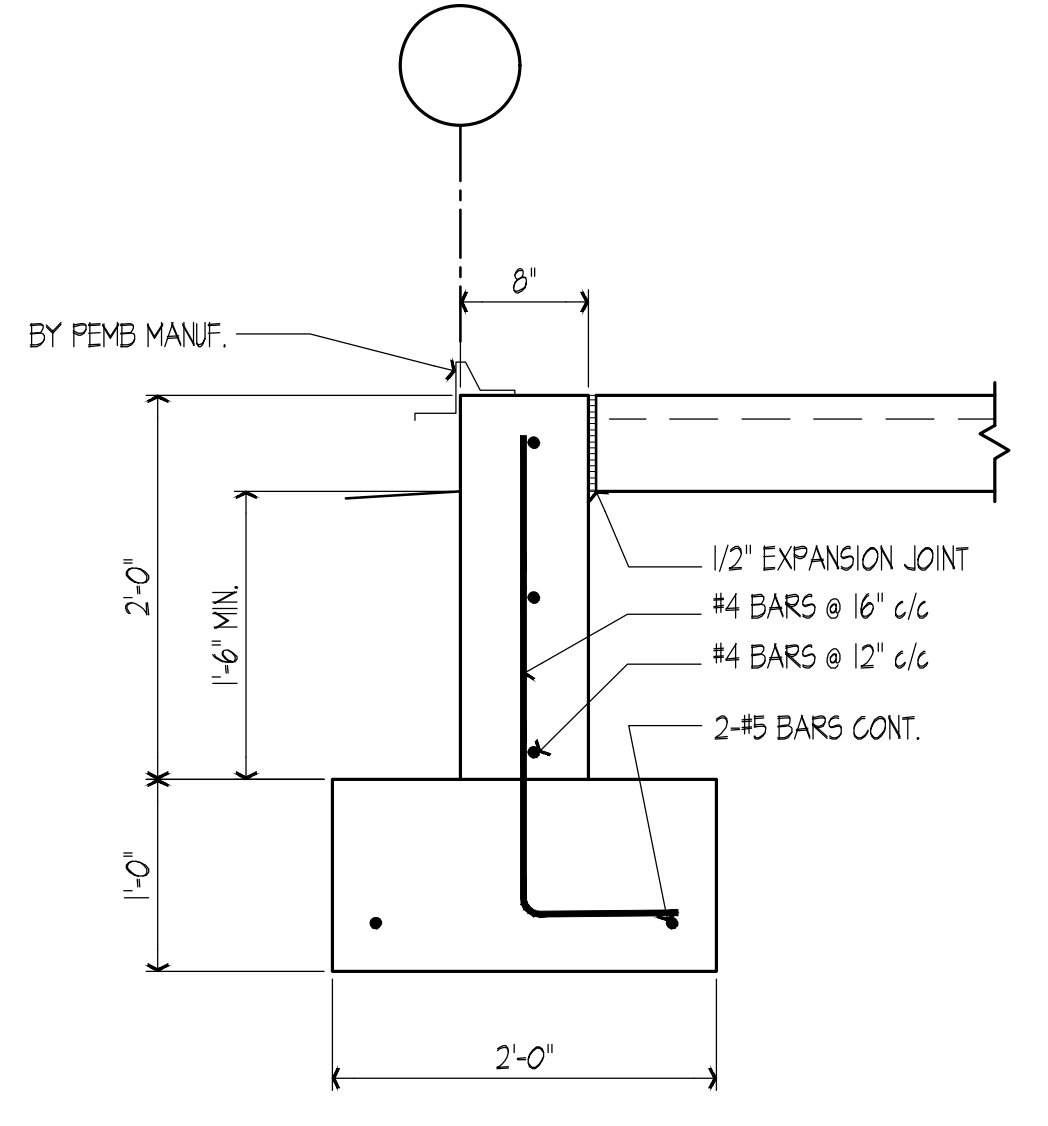
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SHEET OF

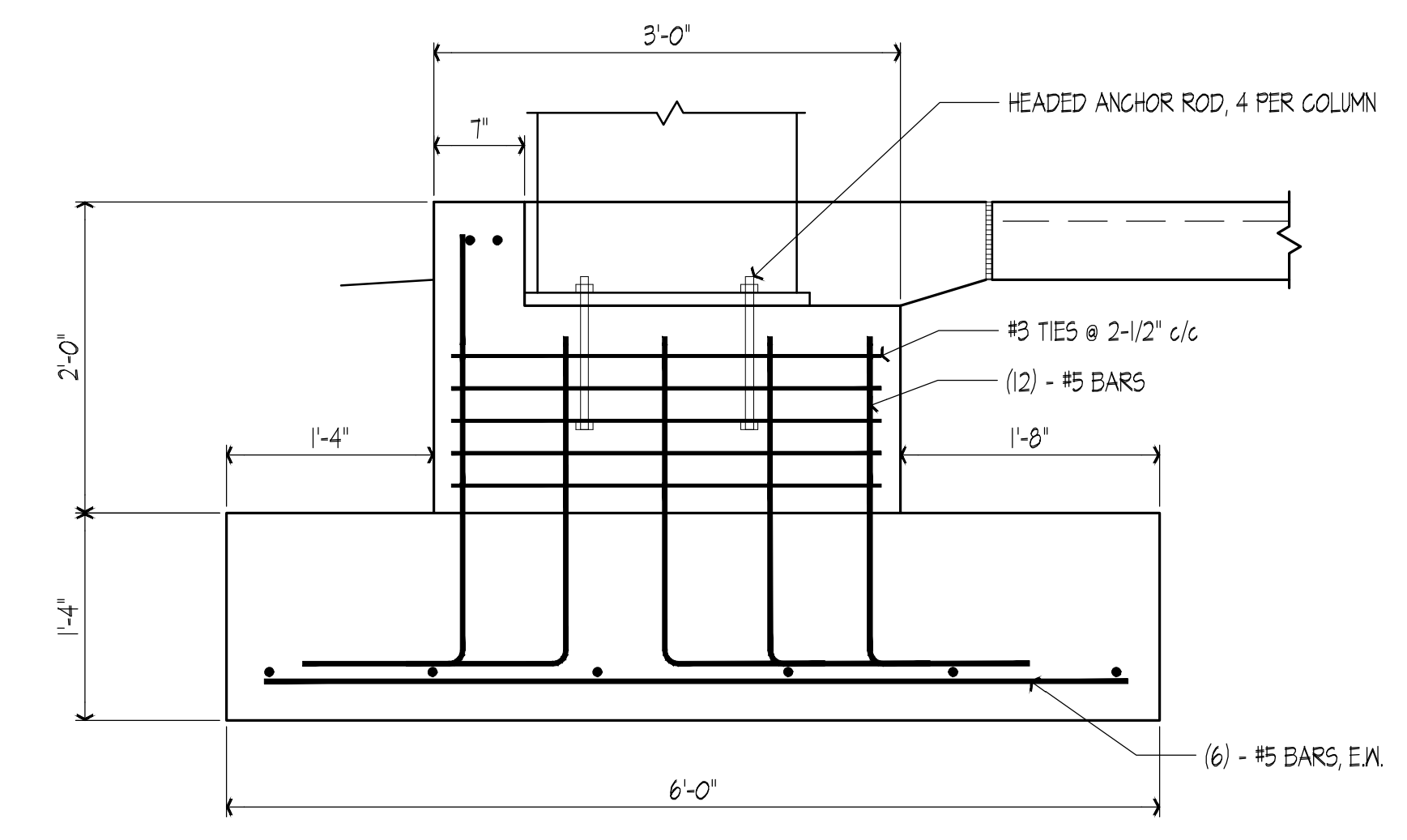


Sections

The Seed Academy
 Lake Cumberland Regional AgriTech Center
 Russell Springs, Kentucky



SECTION 1
 SCALE: 1" = 1' - 0"



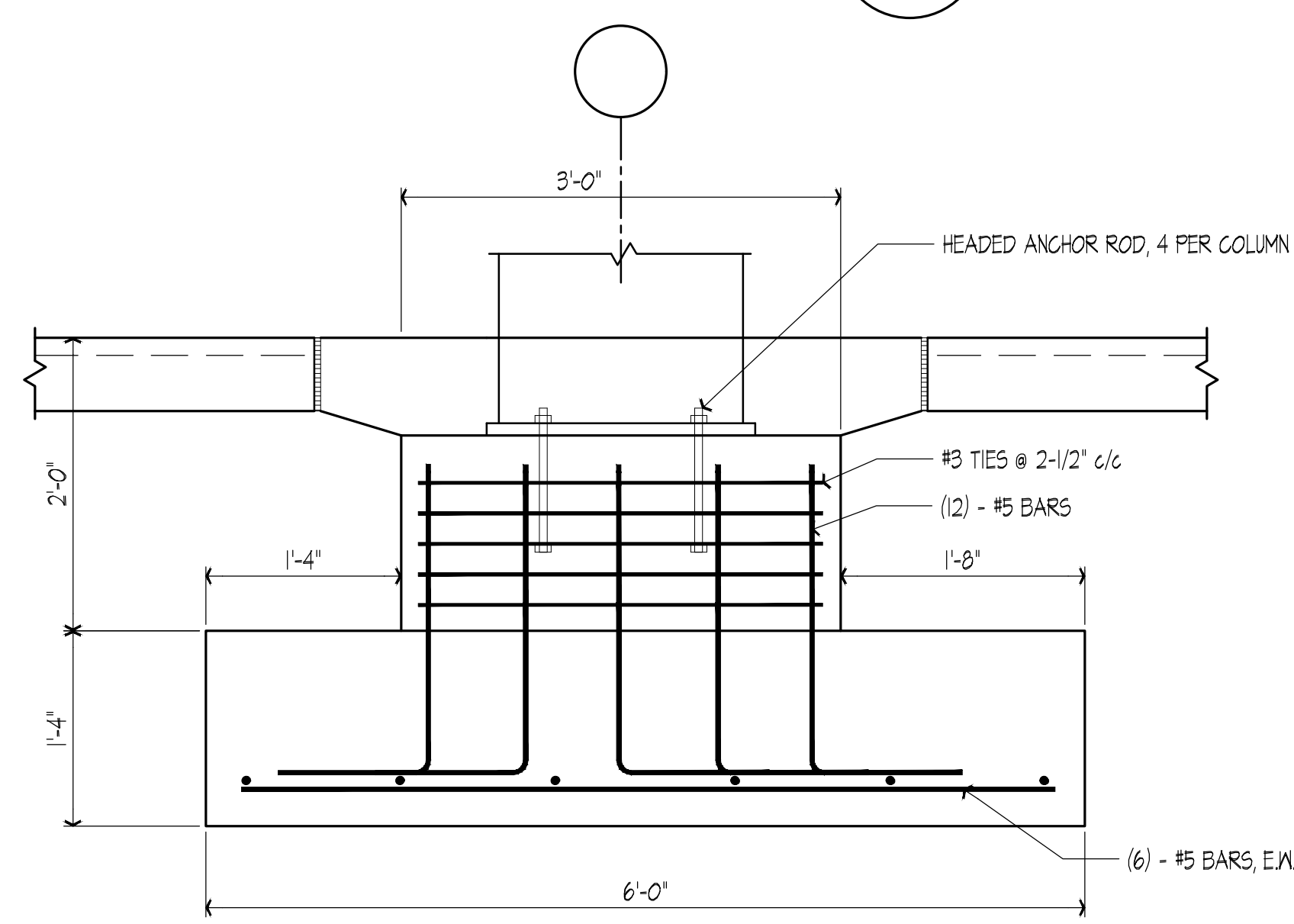
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NOT USED

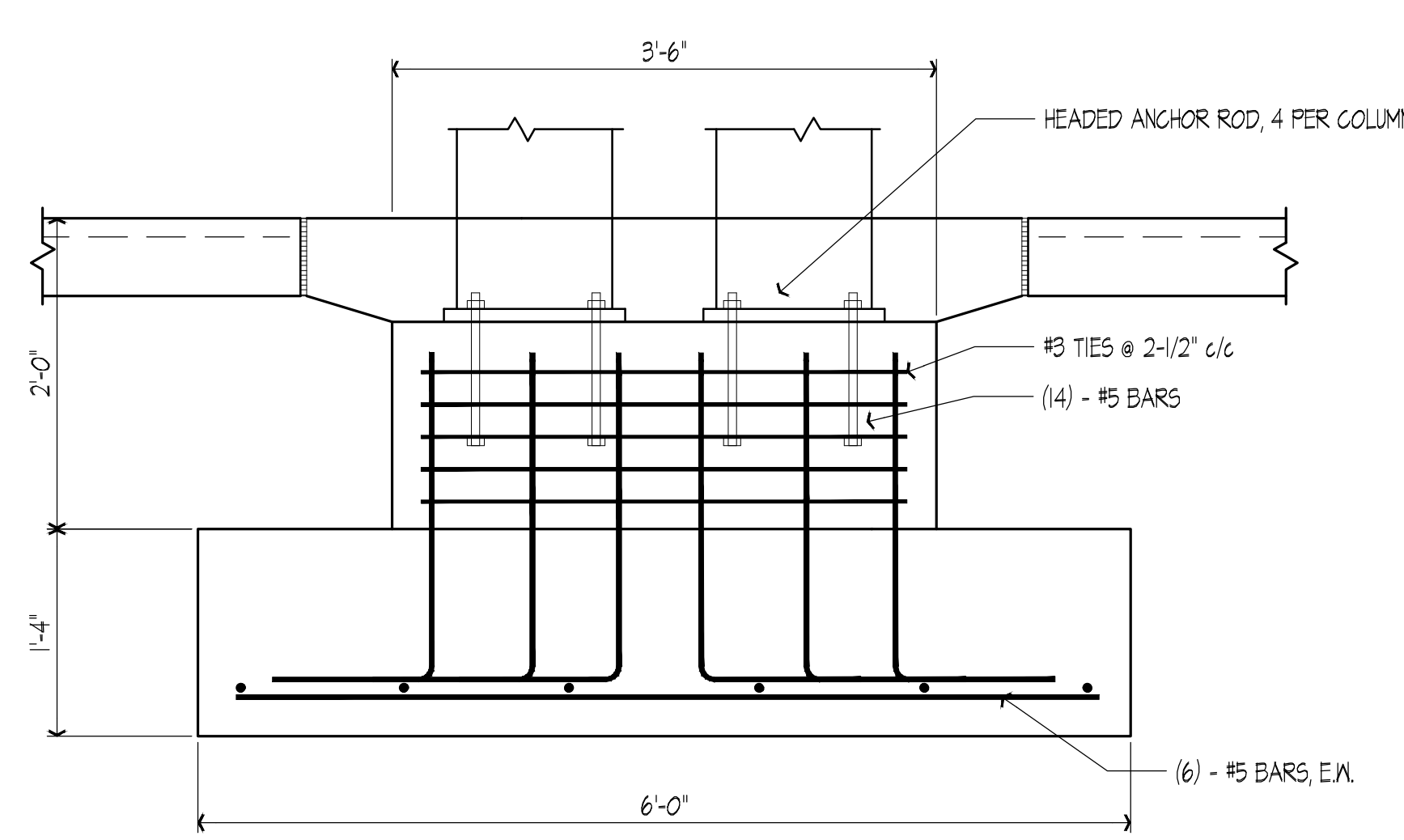
NOT USED

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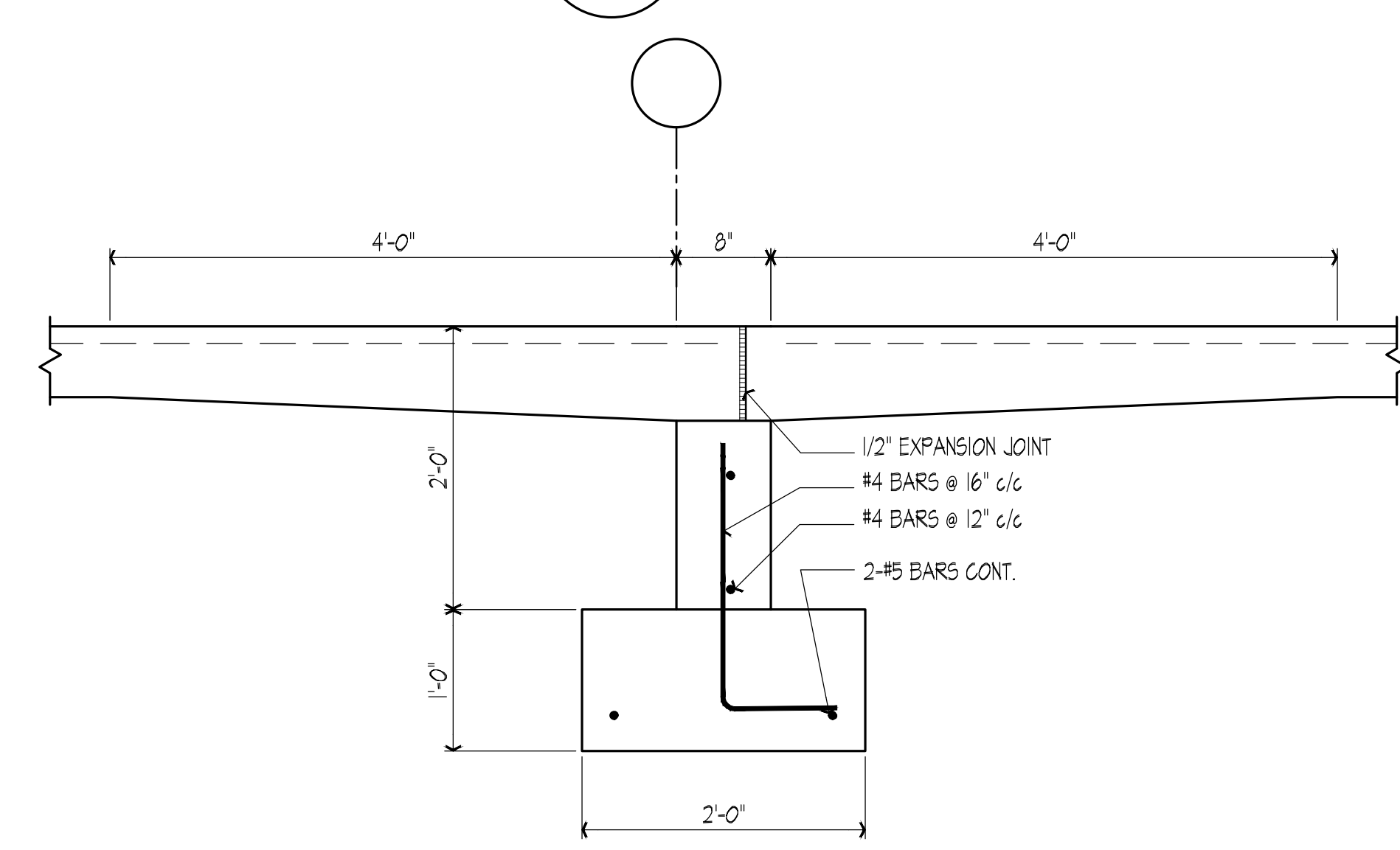
SECTION 4
 SCALE: 1" = 1' - 0"



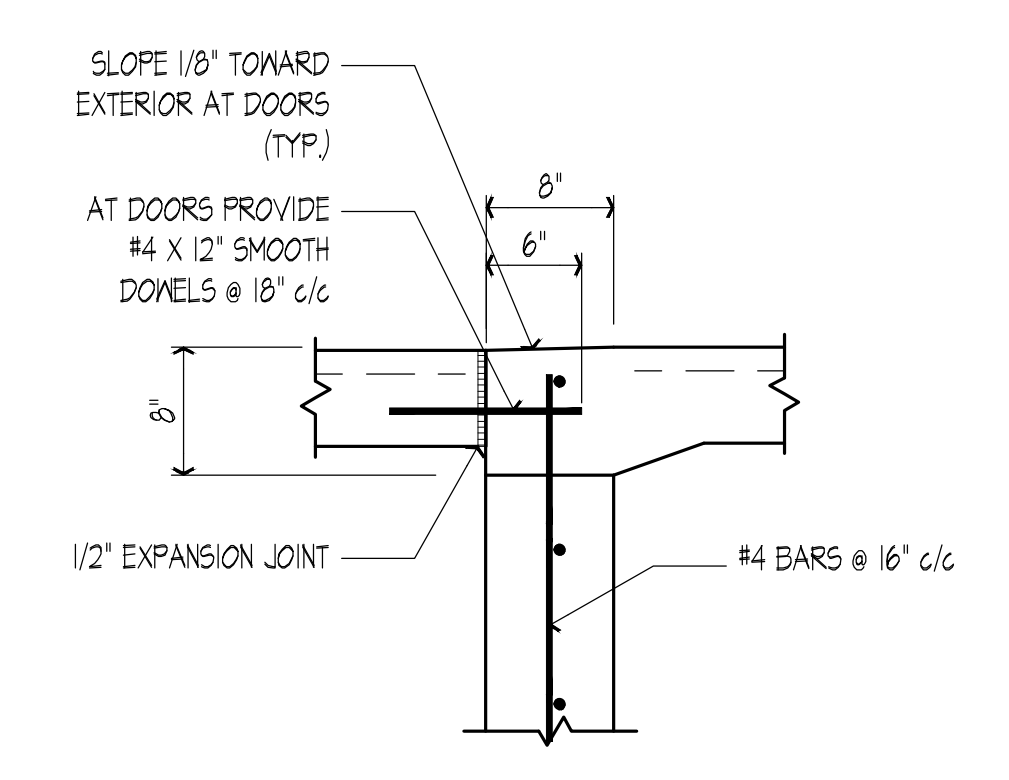
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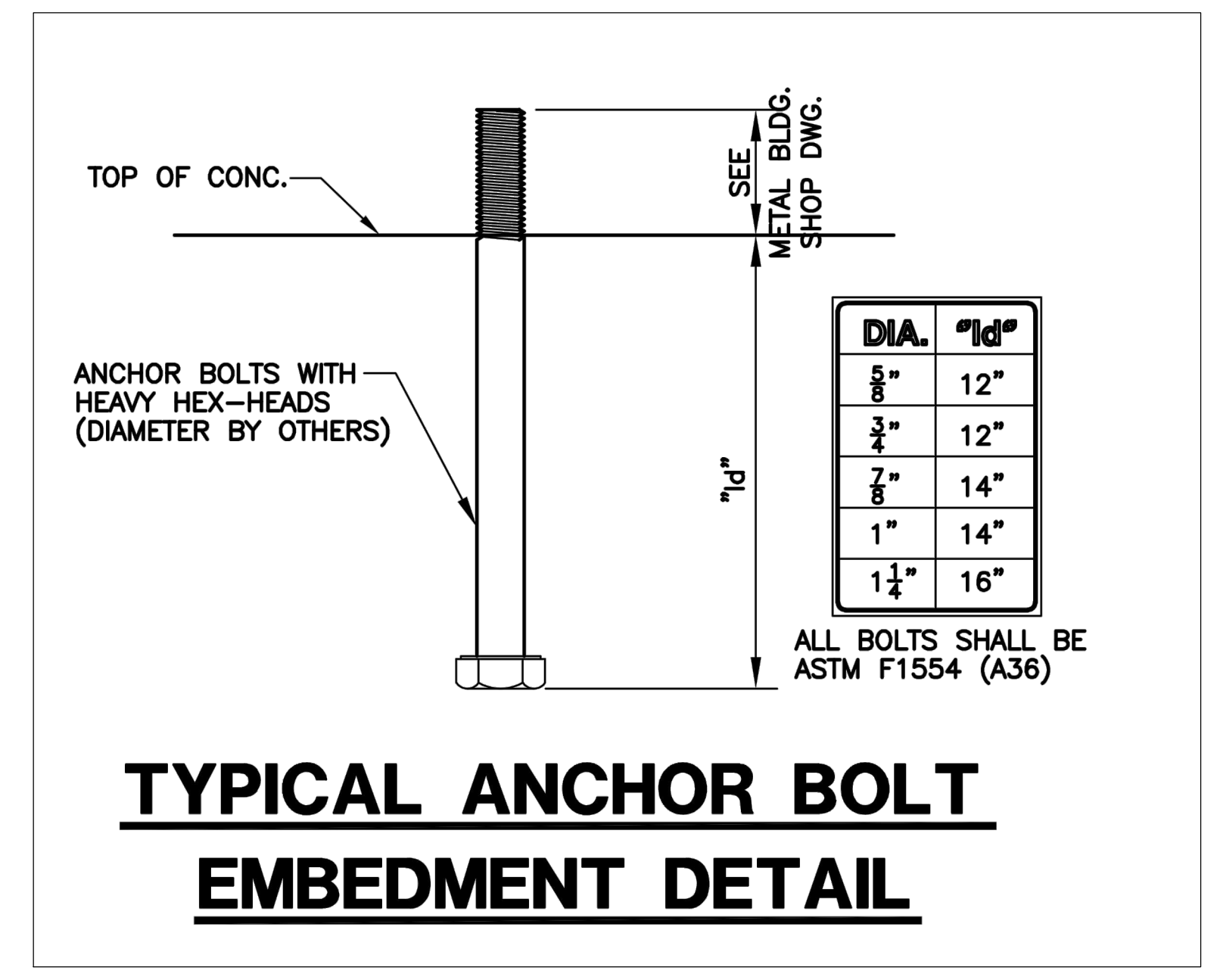
SECTION 6
 SCALE: 1" = 1' - 0"



SECTION 7
 SCALE: 1" = 1' - 0"



TYPICAL @ 3'-0" X 7'-0" DOORS
 TYP. DETAIL



TYPICAL ANCHOR BOLT EMBEDMENT DETAIL

DATE	REVISION	BY

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 CHECKED BY: ENL
 REVIEWED BY: ENL
 DATE: JANUARY 2024
 SCALE: AS NOTED

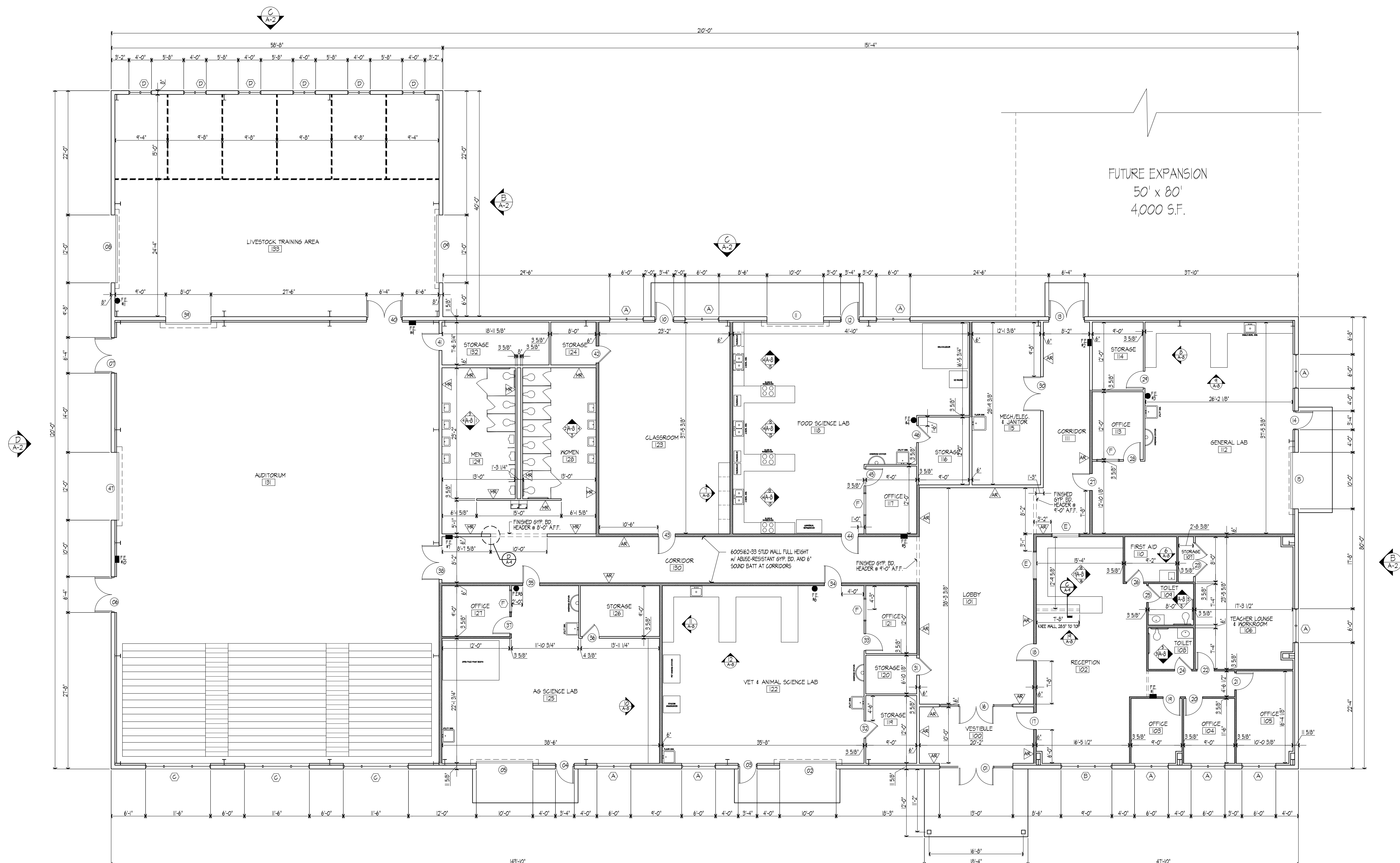
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FLOOR PLAN

The Seed Academy

Late Cumberland Regional AgriTech Center
Russell Springs, Kentucky



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

MAIN BUILDING - 16,800 S.F.
LIVESTOCK AREA - 2,341 S.F.
TOTAL AREA - 19,141 S.F.

INTERIOR WALL TYPES	
	3/8" OR 6" 20 GA. METAL STUDS, 16' O.C., W/ 5/8" GYPSUM BOARD EACH SIDE.
	3/8" OR 6" 20 GA. METAL STUDS, 16' O.C., W/ 5/8" GYPSUM BOARD EACH SIDE AND SOUND BATT CONTINUOUS.
	3/8" OR 6" 20 GA. METAL STUDS, 16' O.C., W/ 5/8" GYPSUM BOARD - ABUSE-RESISTANT (AR) OR MOISTURE-RESISTANT (MR) ON SIDE INDICATED.

DATE	REVISION	BY

PROJECT NO.	2021B-34
DESIGNED BY	ENJ/BLL
DRAWN BY	BLL
CHECKED BY	
REVIEWED BY	
DATE	JANUARY 2024
SCALE	AS NOTED

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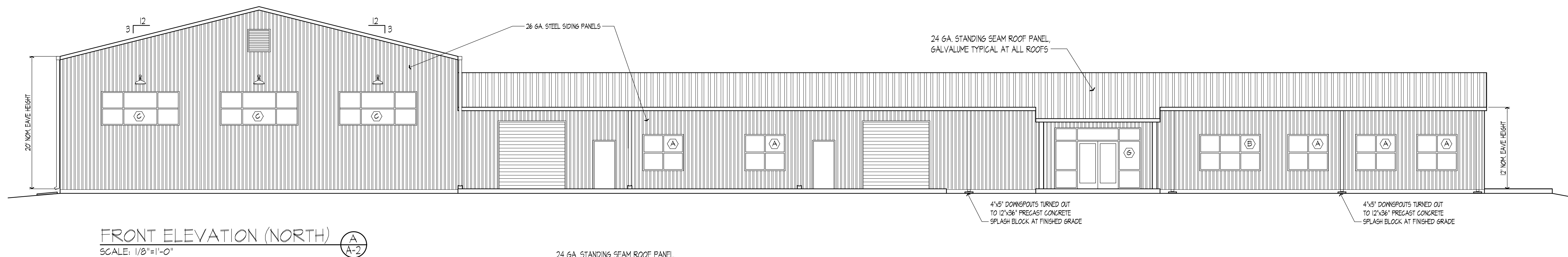
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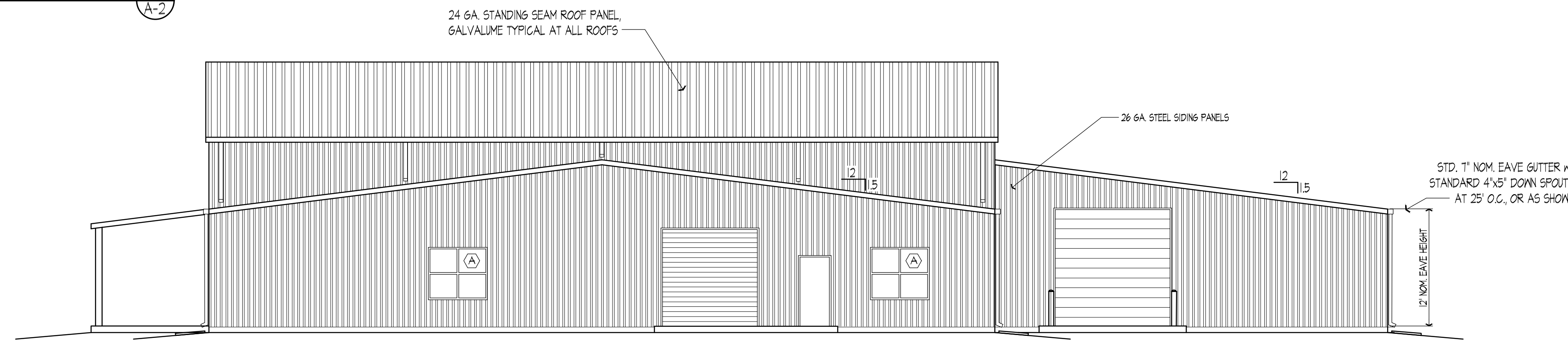
EXTERIOR ELEVATIONS

The Seed Academy

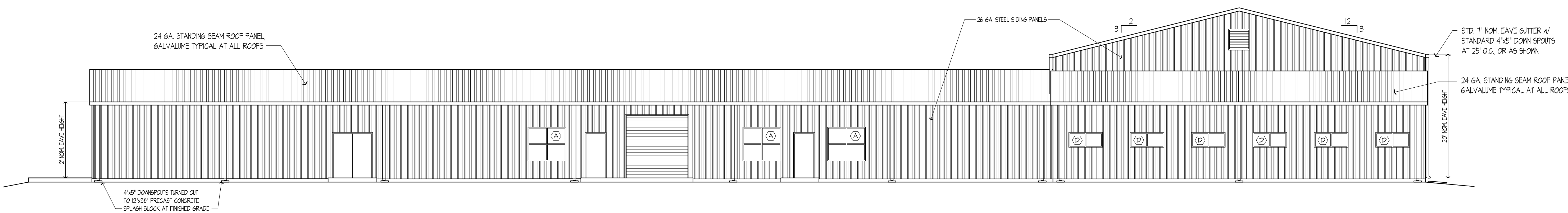
Lake Cumberland Regional AgriTech Center
Russell Springs, Kentucky



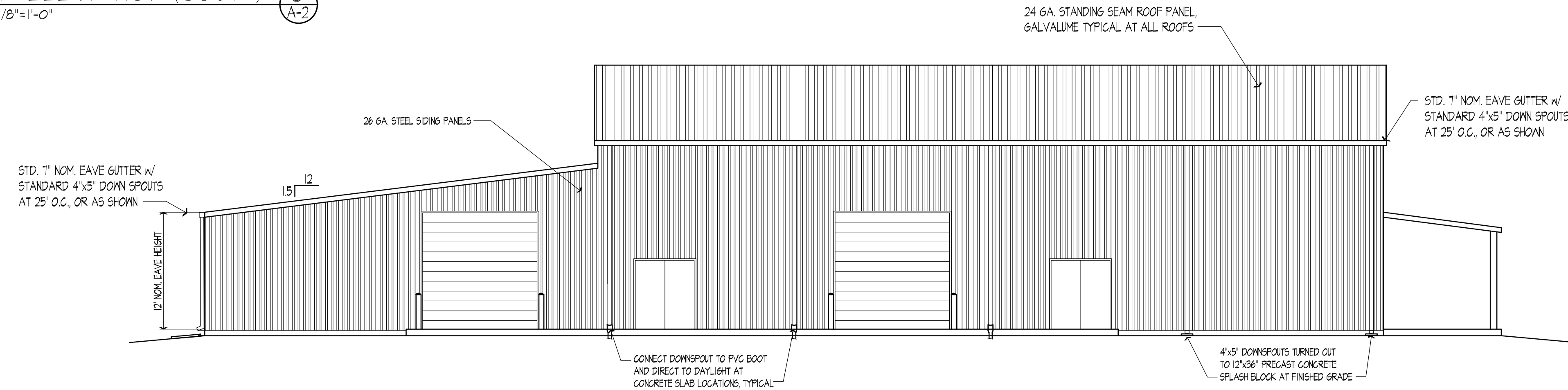
FRONT ELEVATION (NORTH) A-2
SCALE: 1/8"=1'-0"



RIGHT SIDE ELEVATION (WEST) B-2
SCALE: 1/8"=1'-0"



REAR ELEVATION (SOUTH) C-2
SCALE: 1/8"=1'-0"



LEFT SIDE ELEVATION (EAST) F-2
SCALE: 1/8"=1'-0"

- EXTERIOR BUILDING FINISHES**
- WALL PANELS - 26 GA. STEEL SIDING PANELS, COLOR 'TERRA COTTA'
 - ROOF PANELS - 24 GA. STEEL ROOF PANELS, COLOR 'DARK BRONZE'
 - ROOF TRIM AND GUTTERS - COLOR 'SURREY BEIGE'
 - DOWNSPOUTS - COLOR 'TERRA COTTA'
 - STEEL OVERHEAD DOORS/FRAMES - 'DARK BRONZE'
 - ALUMINUM DOOR/WINDOW FRAMES - 'DARK BRONZE'
 - HOLLOW METAL DOORS/FRAMES - PAINTED SEMI-GLOSS ENAMEL TO MATCH 'DARK BRONZE'
 - METAL VENTS AND LOUVERS - 'DARK BRONZE'
 - EXTERIOR STEEL COLUMNS AND FRONT CANOPY STRUCTURE - PAINTED SEMI-GLOSS ENAMEL TO MATCH 'DARK BRONZE'
- NOTE: Finish colors noted are brand specific and may be substituted with architect approved equal.

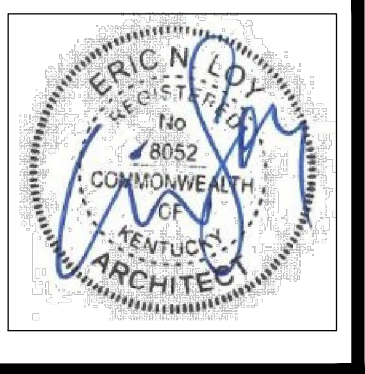
DATE	REVISION	BY
9-22-24	REV. 1 - WINDOW TYPE 'A' ADDED TO RIGHT SIDE ELEVATION	BLL

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20216-34	ENL/BLL	BLL	BLL	JANUARY 2024	AS NOTED

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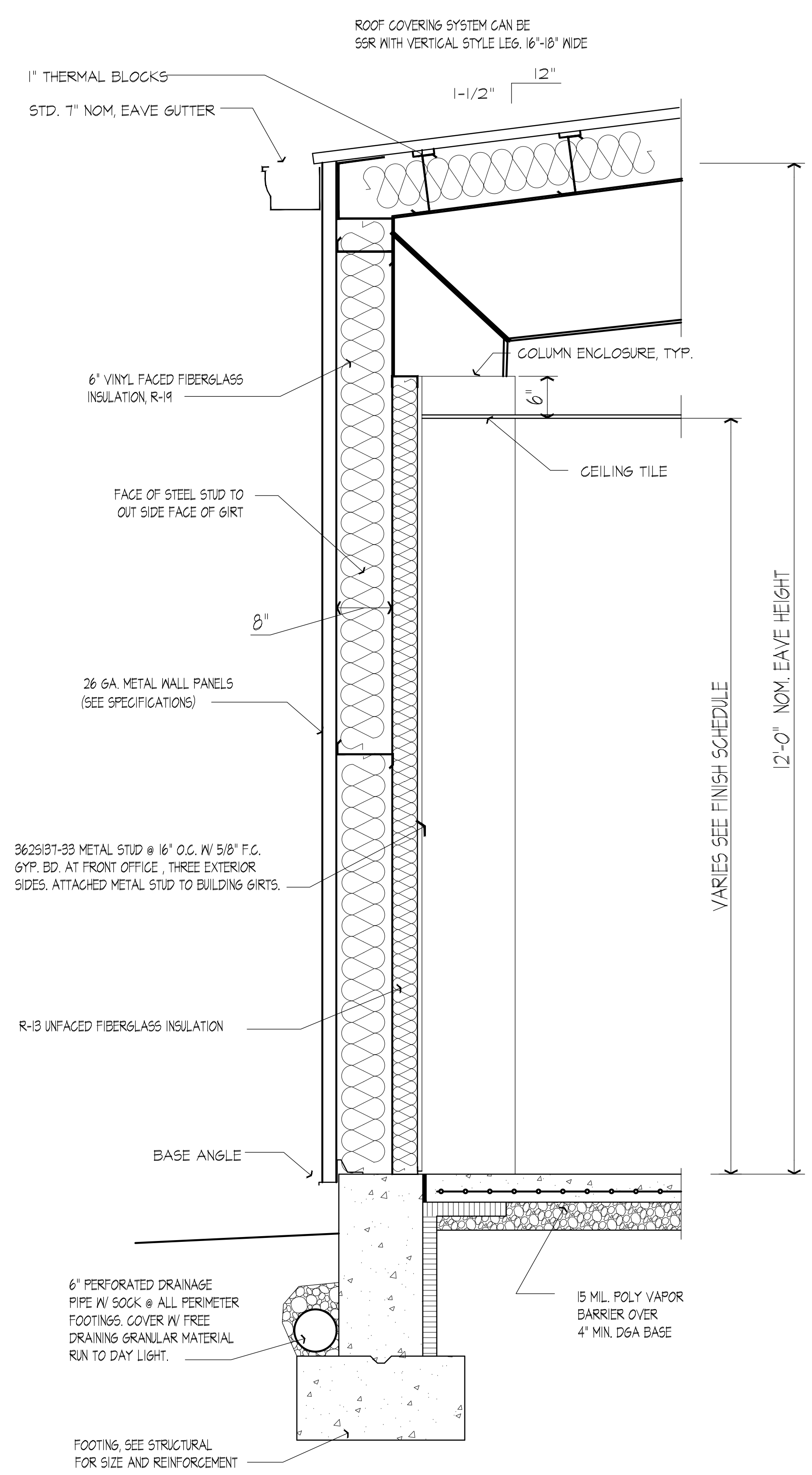
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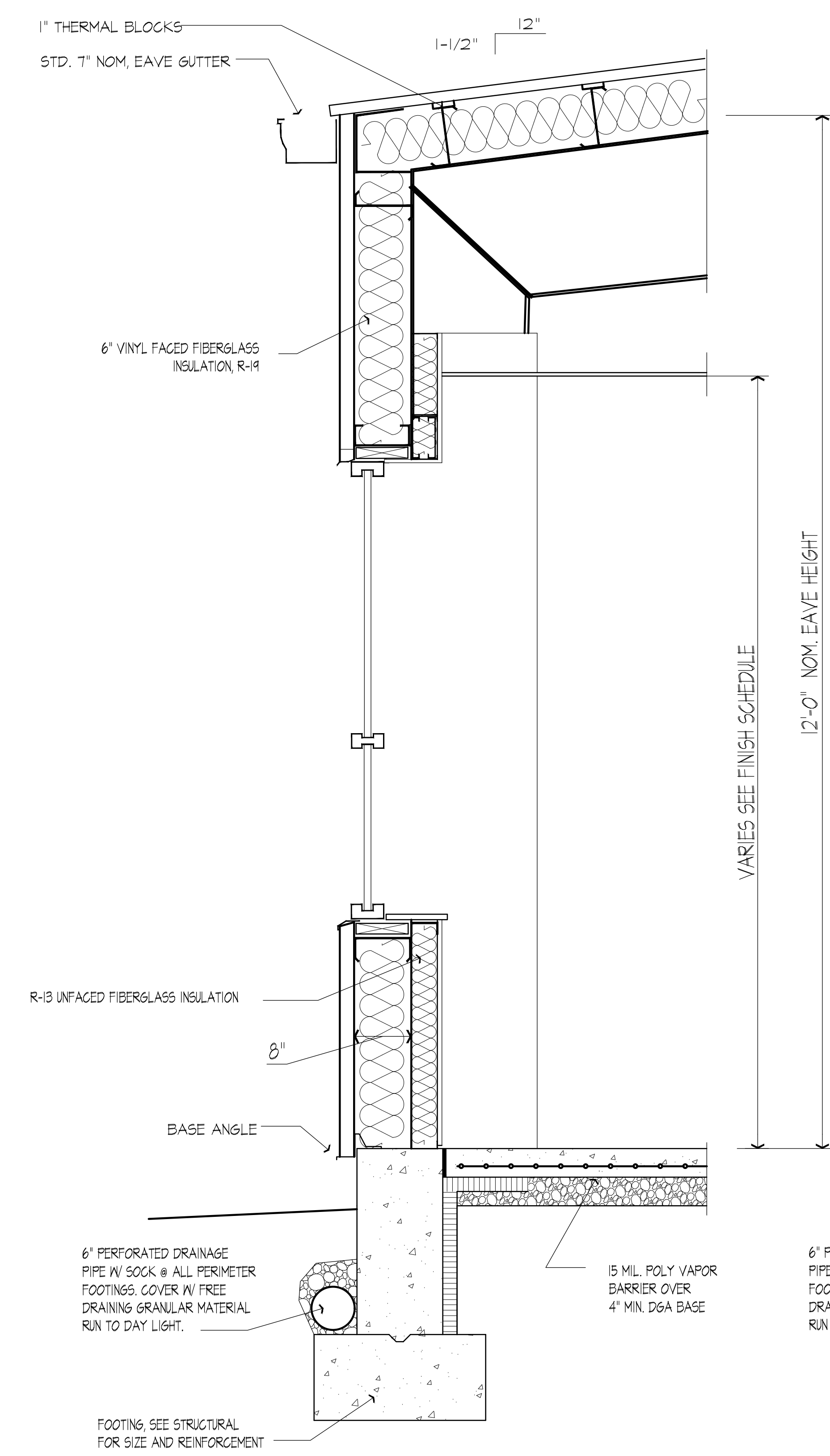


SECTIONS

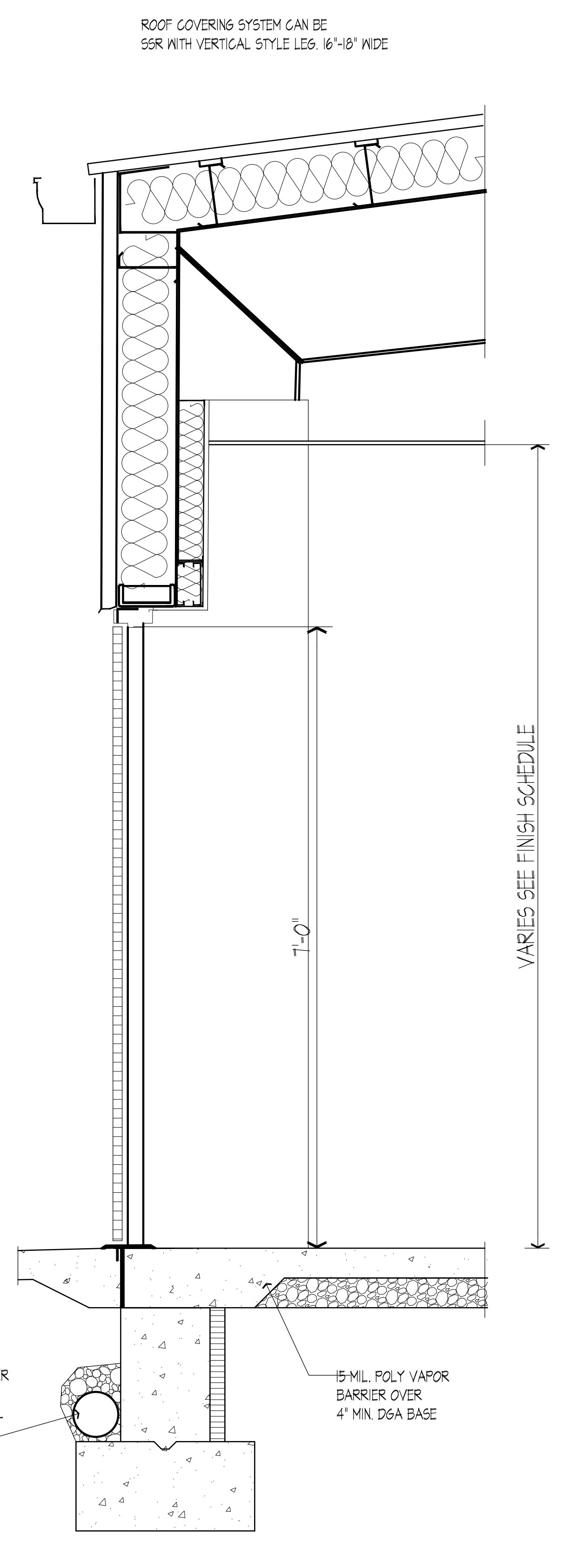
The Seed Academy
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Russell Springs, Kentucky



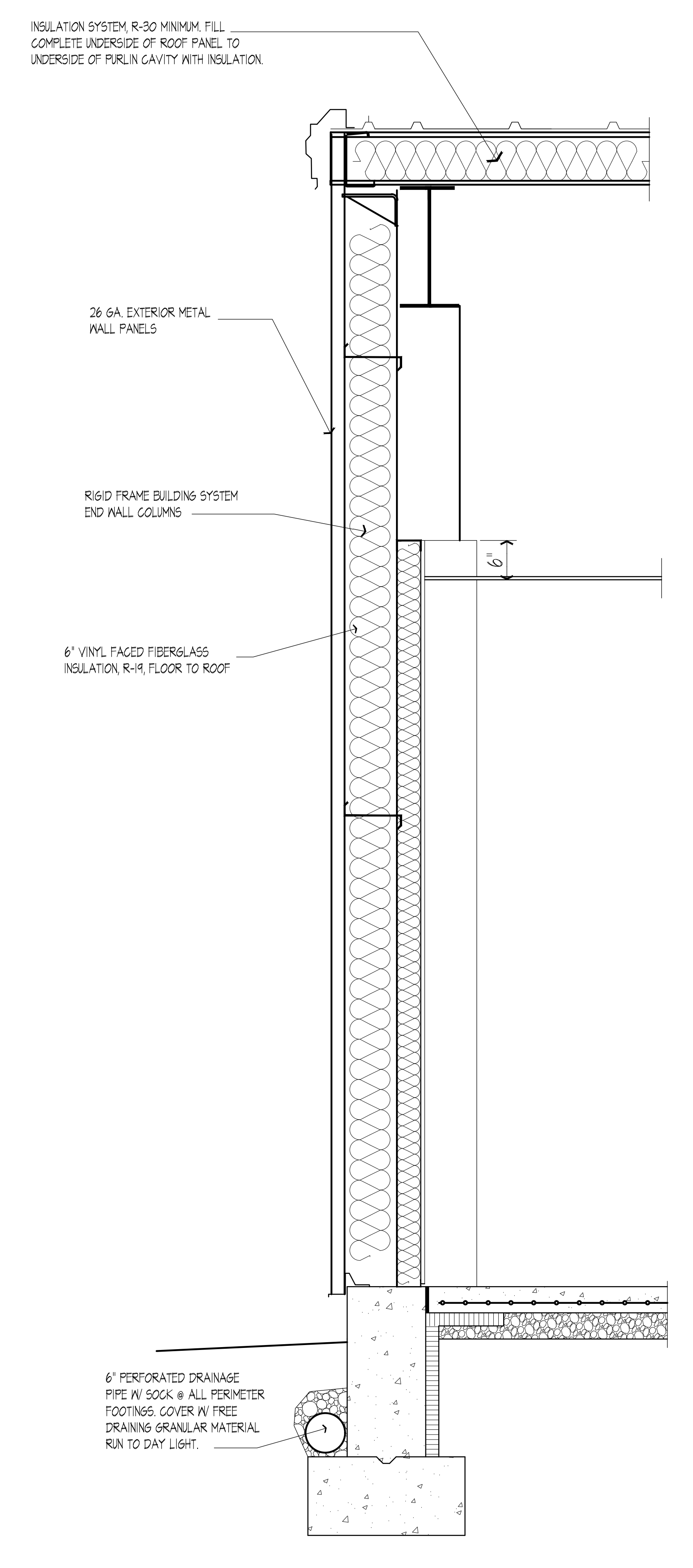
LABS & OFFICES
WALL SECTION A
SCALE: 1" = 1'-0"



LABS & OFFICES
WALL SECTION B
SCALE: 1" = 1'-0"



LABS & OFFICES
WALL SECTION C
SCALE: 1" = 1'-0"



LABS & OFFICES
WALL SECTION D
SCALE: 1" = 1'-0"

INSULATION SYSTEM R-30 MINIMUM, FILL COMPLETE UNDERSIDE OF ROOF PANEL TO UNDERSIDE OF FURLIN CAVITY WITH INSULATION.

DATE	REVISION	BY
9-5-24	R-1	

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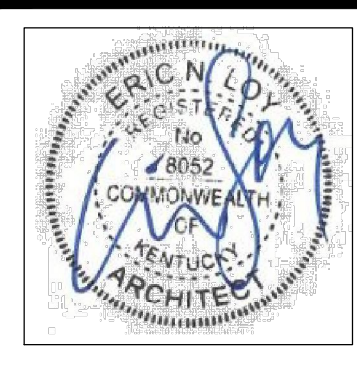
PROJECT NO.	2019-24
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SCALE	AS NOTED

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DRAWING NO.

A-3

SHEET OF



SECTIONS

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Russell Springs, Kentucky

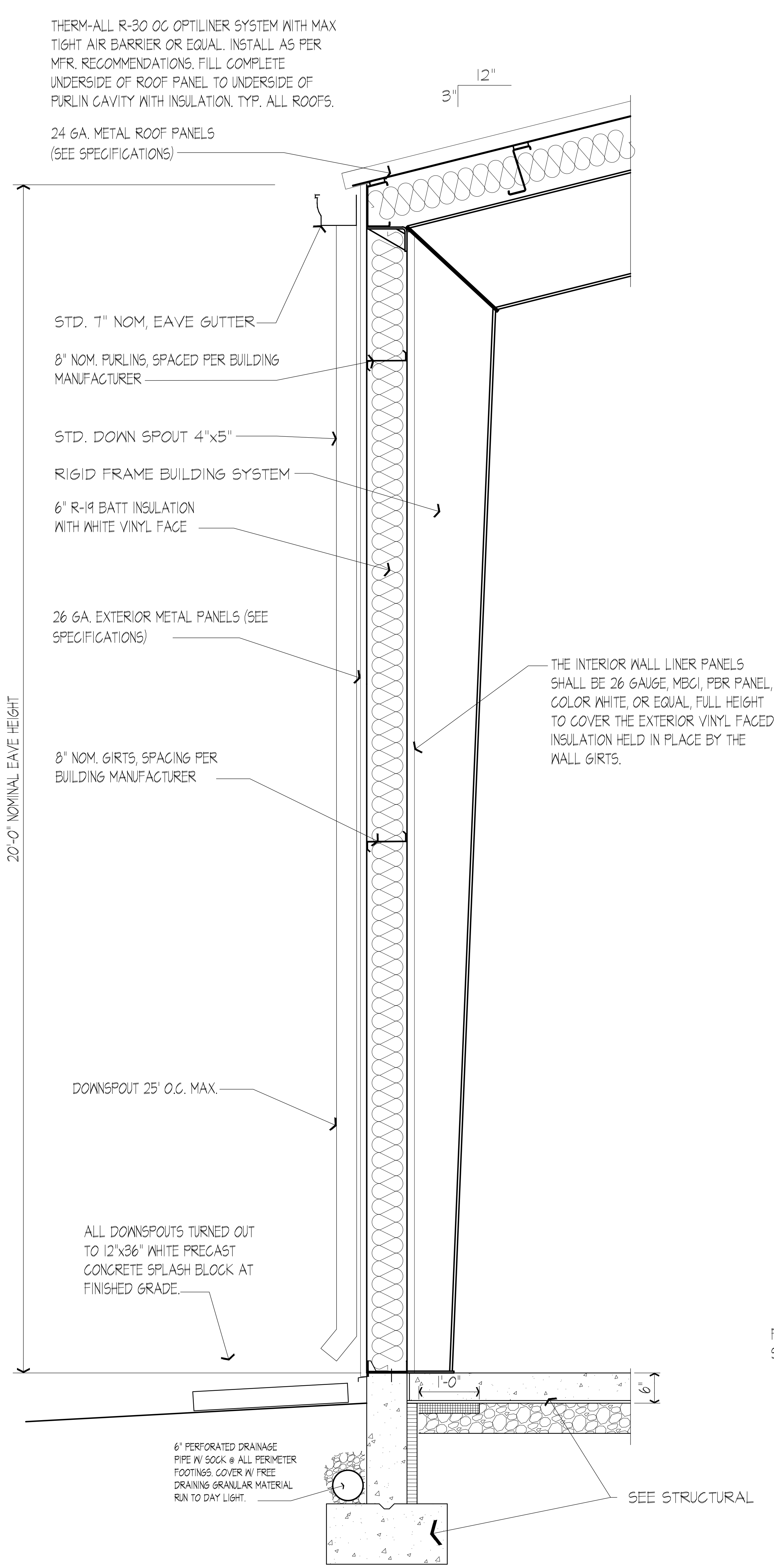
PROJECT NO.	DATE	REVISION	BY
2018-34	9-5-24	R-1	REVISED

DESIGNED BY	DRAWN BY	CHECKED BY	REVIEWED BY	DATE	SCALE
ENJ/BLL	BLL			JANUARY 2024	AS NOTED

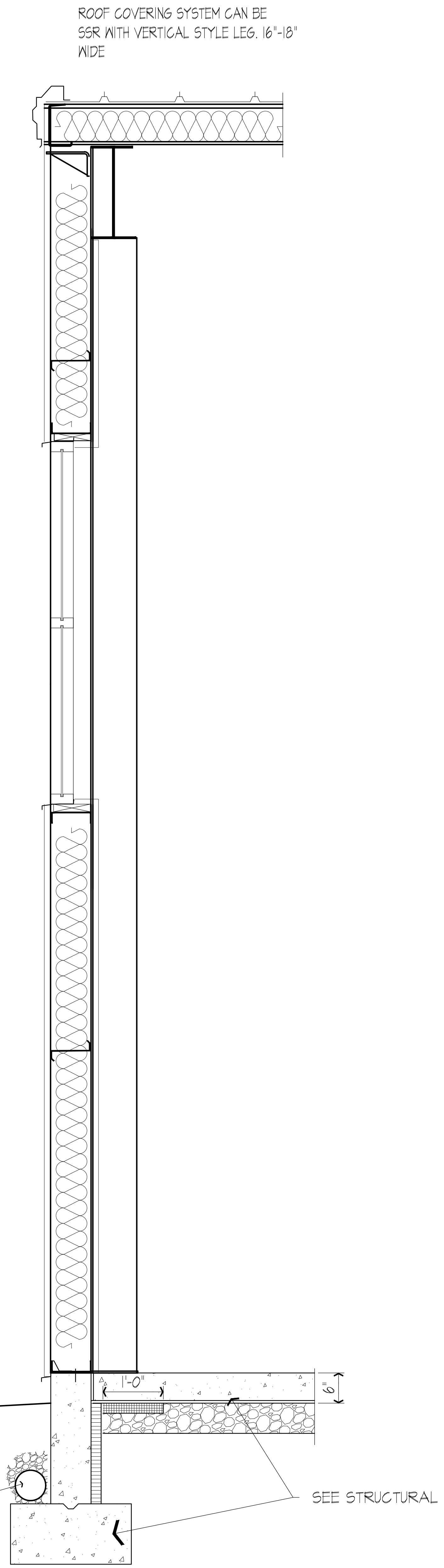
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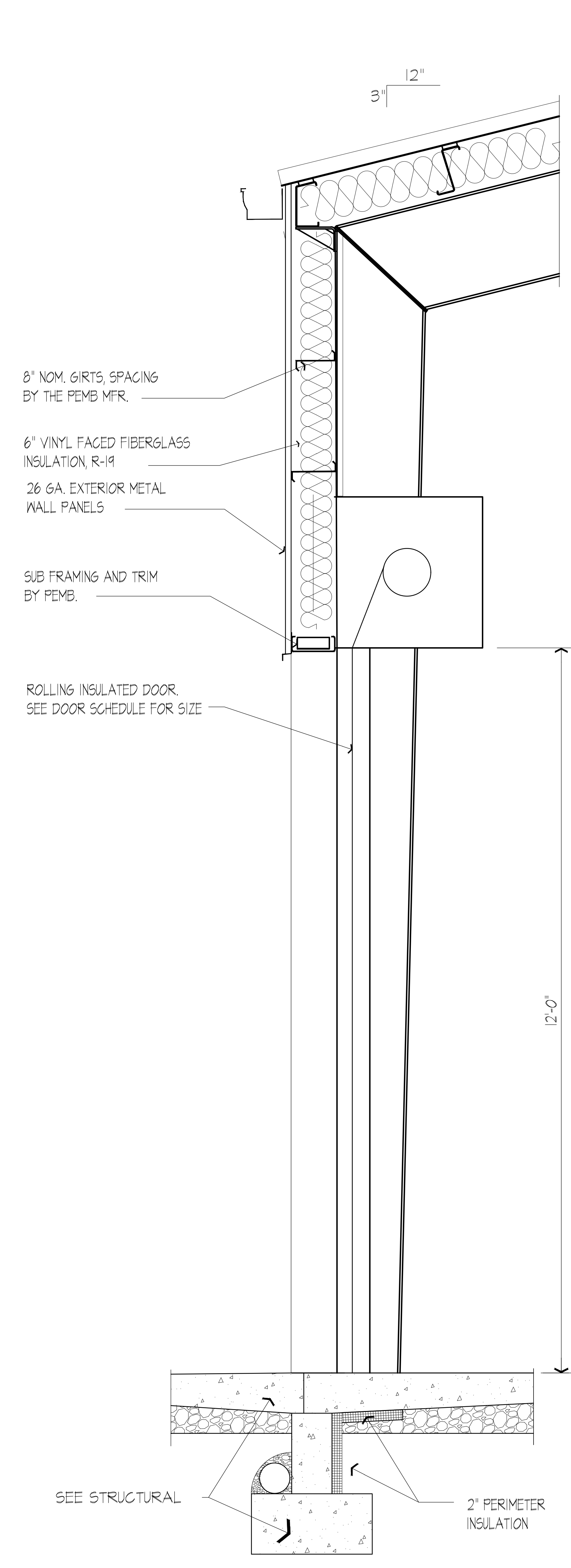
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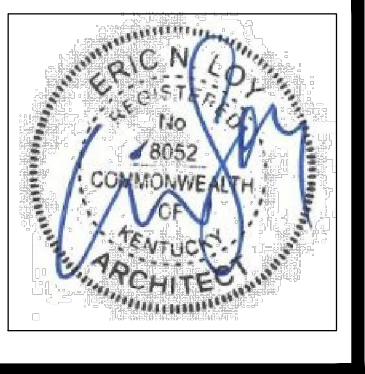
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WALL SECTION A
SCALE: 1" = 1'-0"
A-4



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WALL SECTION B
SCALE: 1" = 1'-0"
A-4



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WALL SECTION C
SCALE: 1" = 1'-0"
A-4



SECTIONS

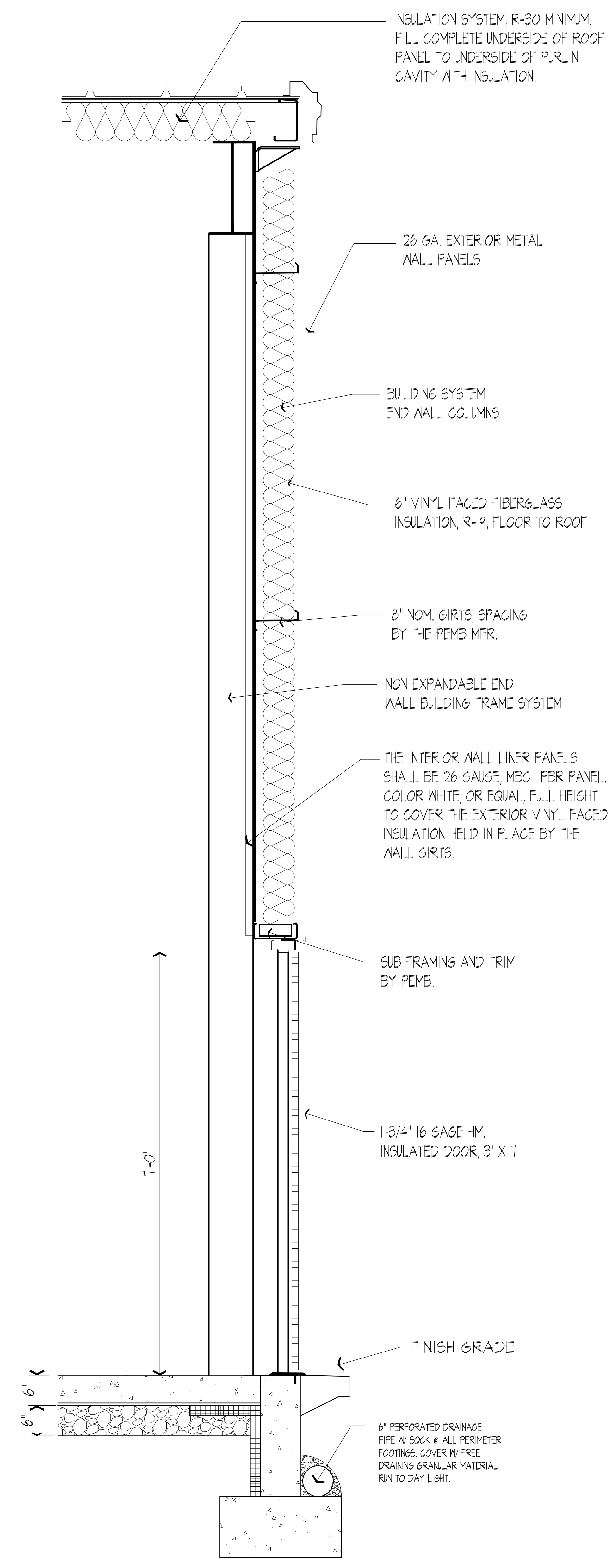
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DRAWN BY BLL	CHECKED BY	9-5-24	1-R-1 REVISED
REVIEWED BY	DATE	JANUARY 2024	
SCALE	AS NOTED		

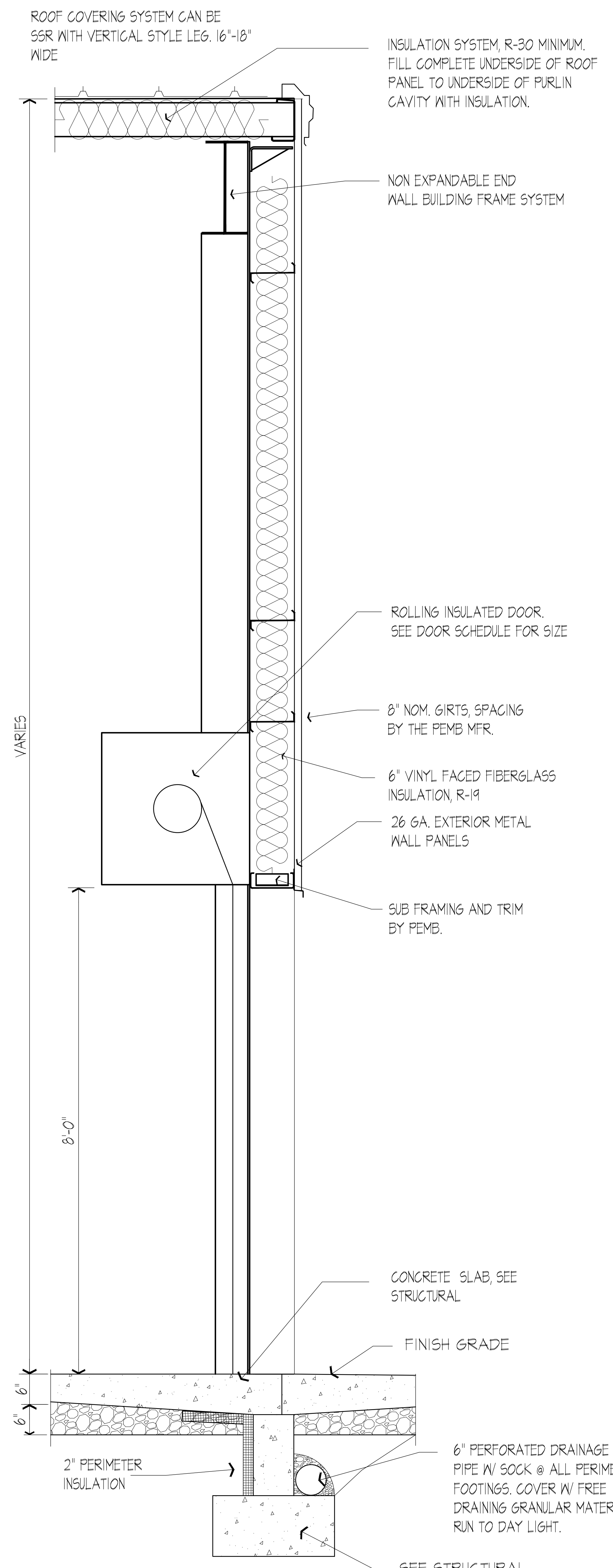
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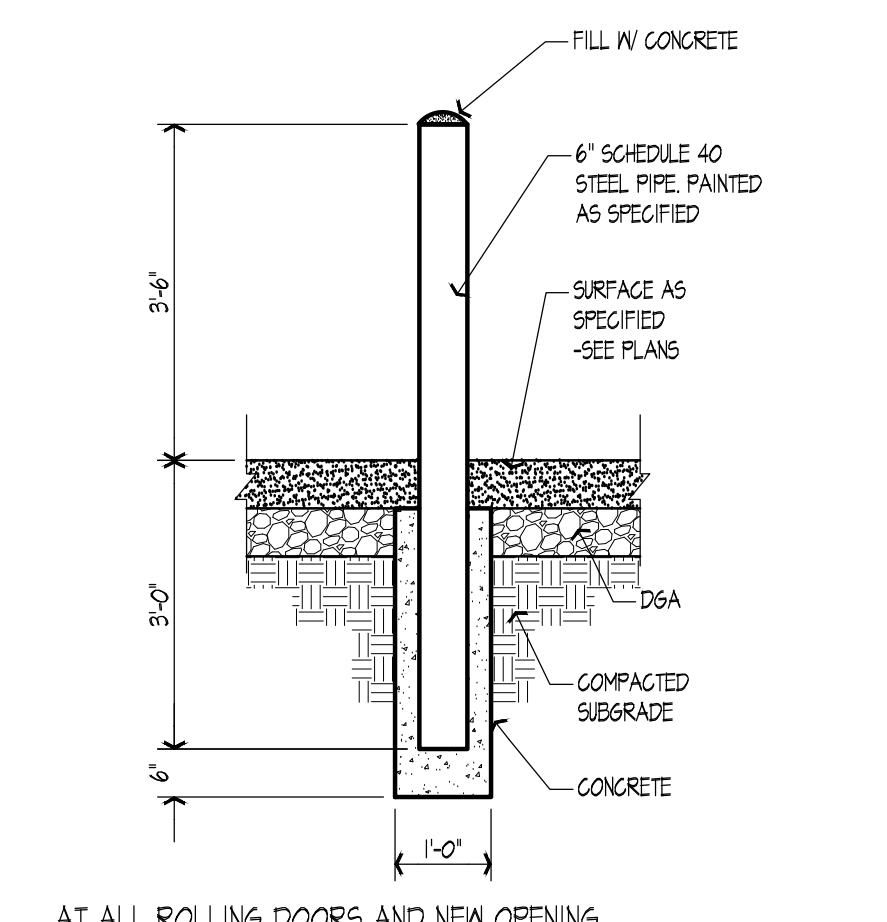
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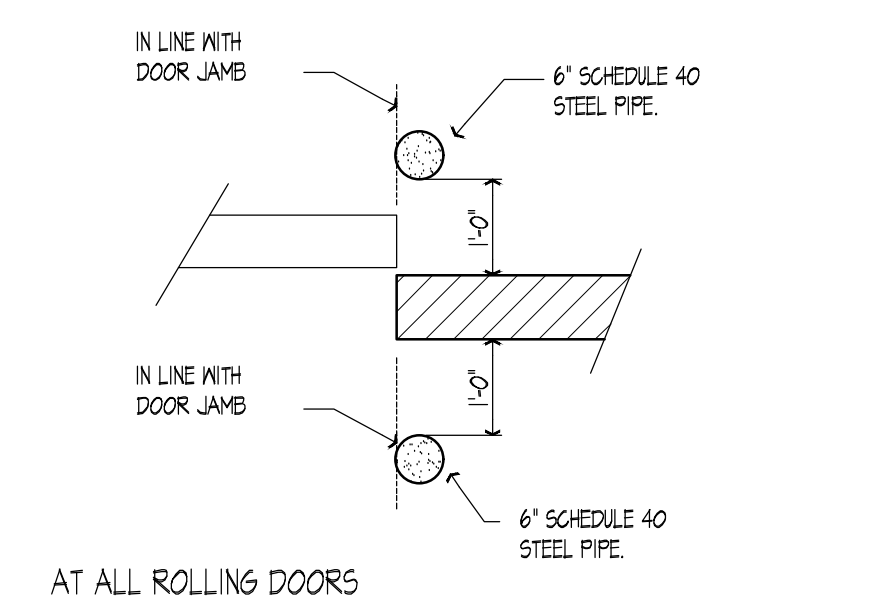
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WALL SECTION
SCALE: 1" = 1'-0"
A
A-5



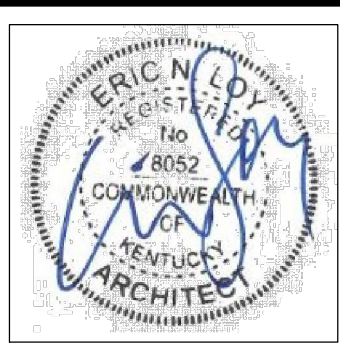
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WALL SECTION
SCALE: 1" = 1'-0"
B
A-5



AT ALL ROLLING DOORS AND NEW OPENING
PIPE BOLLARD DET. C
SCALE: 1/2" = 1'-0"
A-5



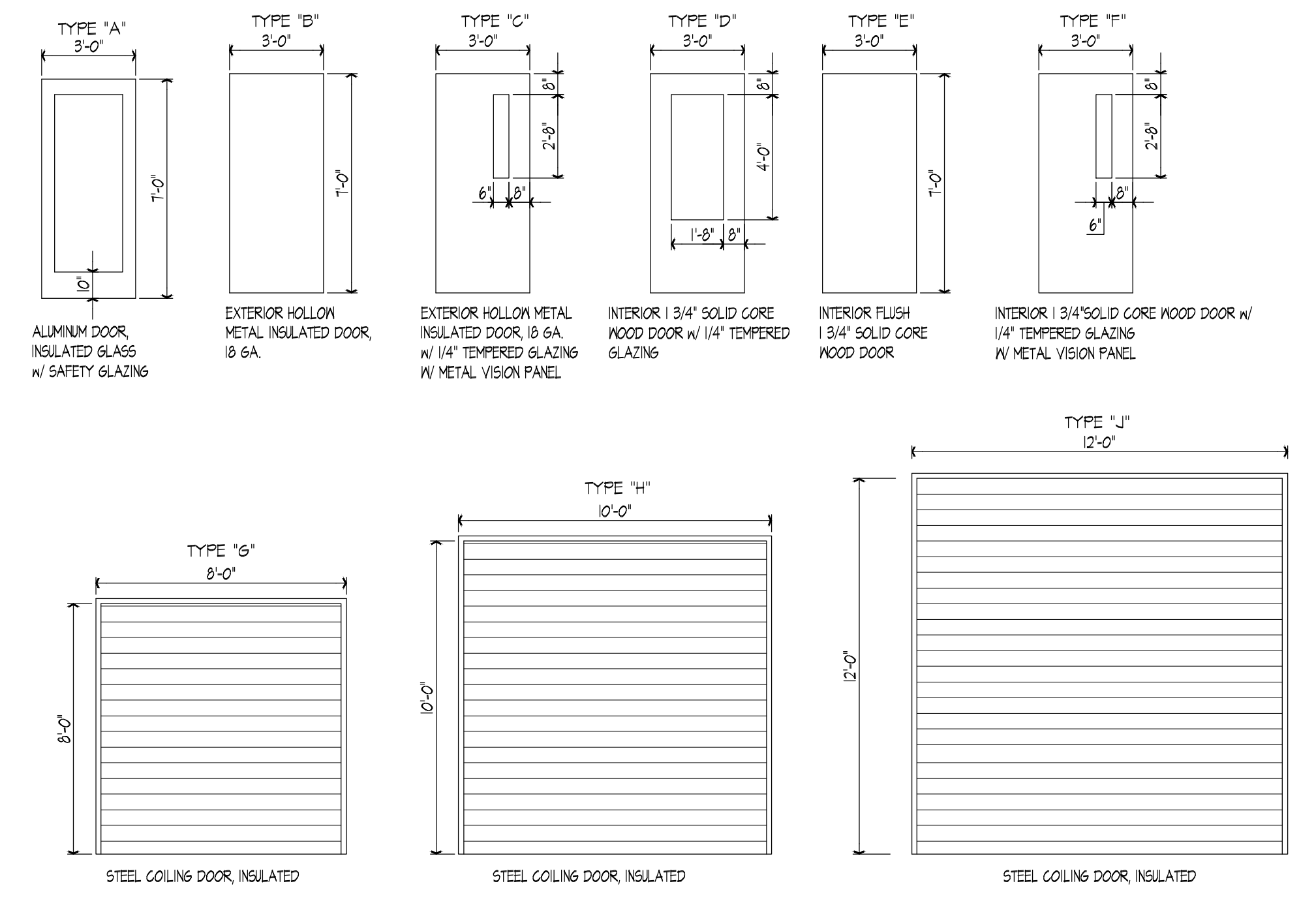
AT ALL ROLLING DOORS
PIPE BOLLARD PLAN D
SCALE: 1/2" = 1'-0"
A-5



DOOR SCHEDULE

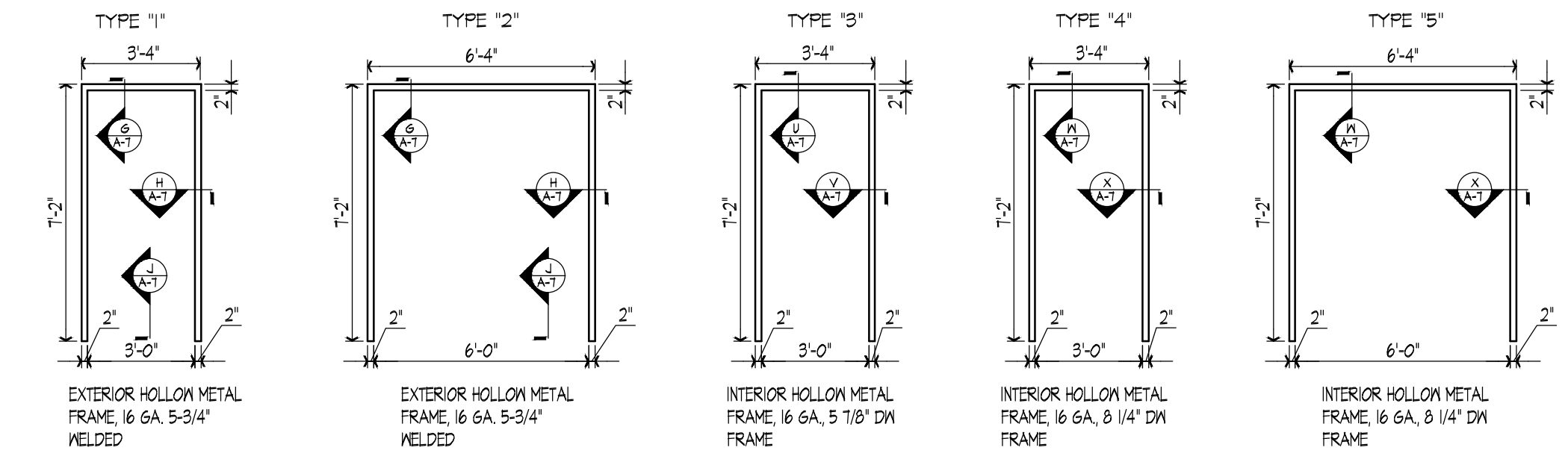
The Seed Academy
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 Russell Springs, Kentucky

DOOR TYPES:
 SCALE 1/4" = 1' - 0"

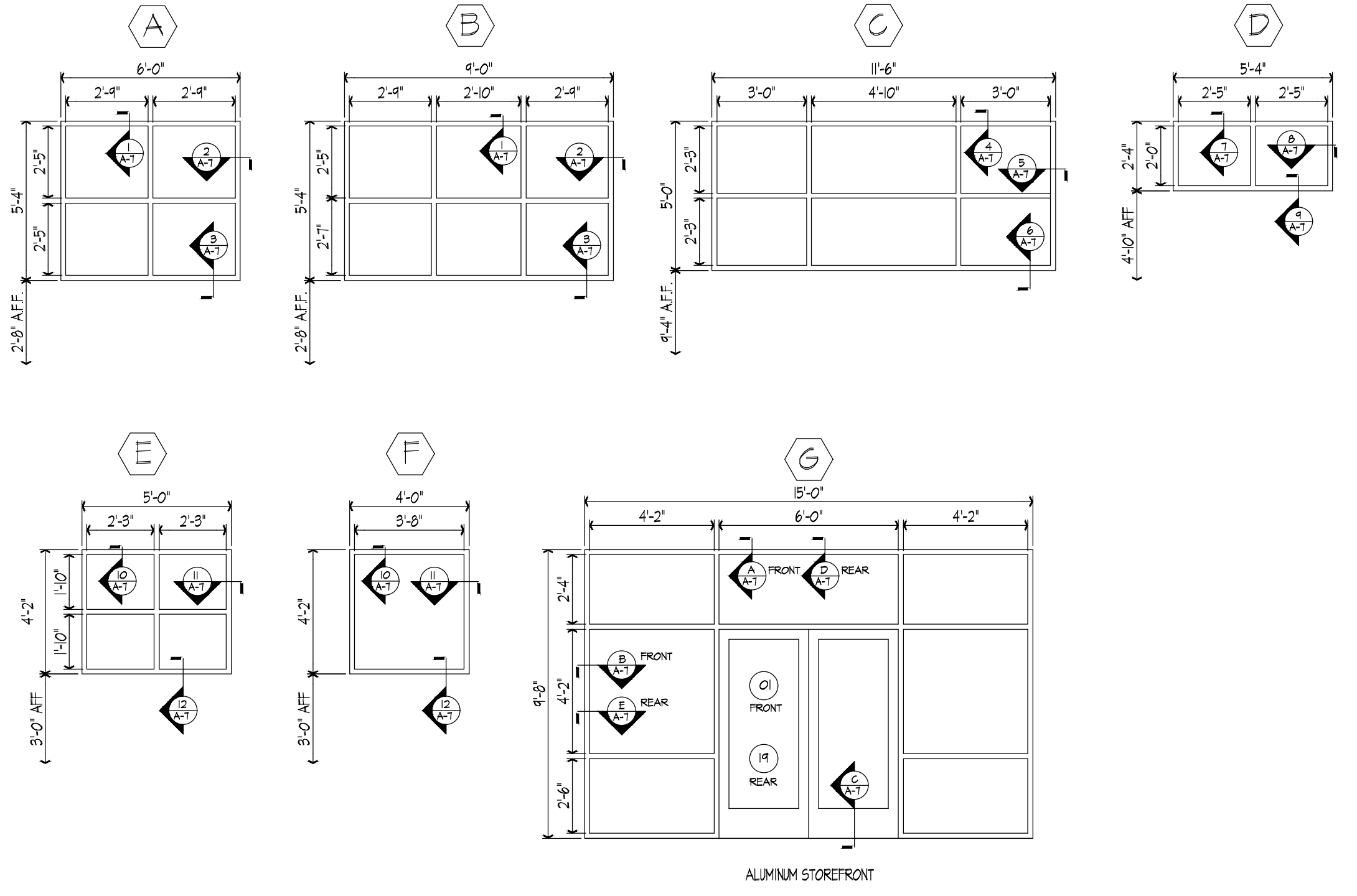


DOOR FRAMES:
 SCALE 1/4" = 1' - 0"

ALL EXTERIOR HOLLOW METAL DOOR FRAMES SHALL BE GALVANIZED.



WINDOWS & STOREFRONTS:
 SCALE 1/4" = 1' - 0"



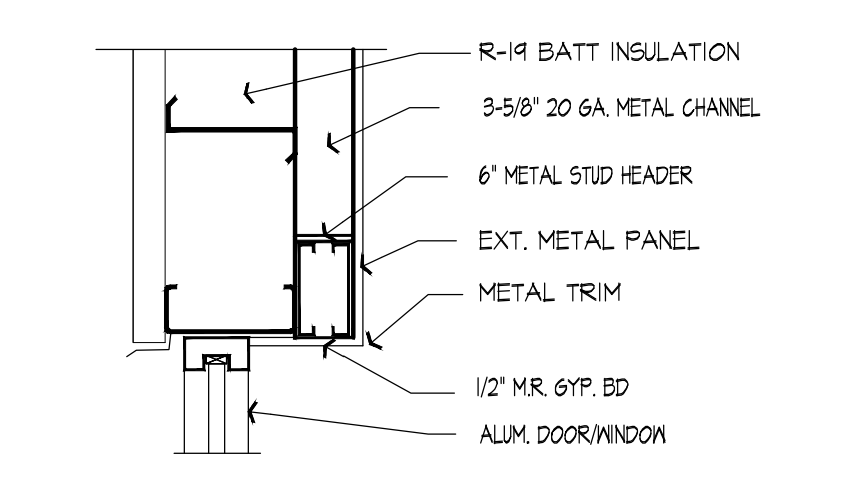
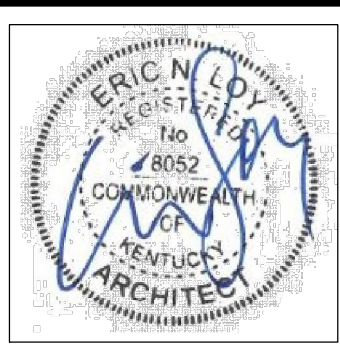
DOOR SCHEDULE

SEE SPEC. SECTION 08110 FOR HARDWARE SETS

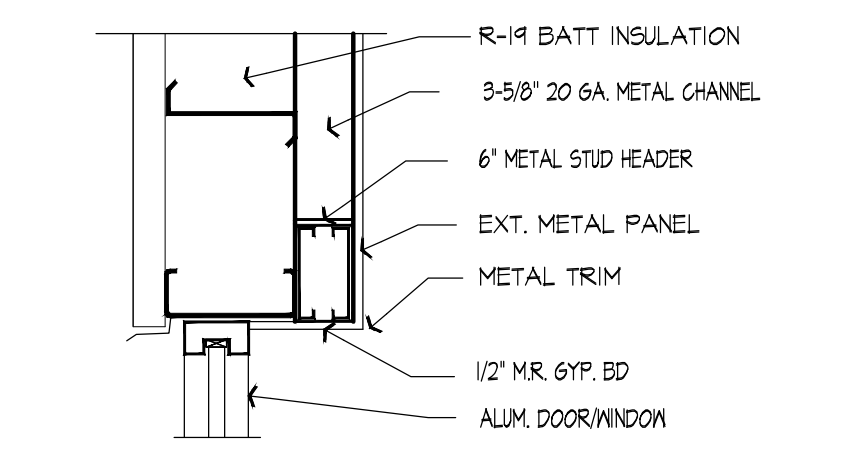
NO.	FR.	TYPE	MATERIAL	WIDTH	HEIGHT	THICK.	FRAME			REMARKS	
							TYPE	HEAD	JAMB		SILL
1	FR.	A	ALUM.	3'-0"	7'-0"	----	----	A	B	C	STORE FRONT 'S'
2		H	STEEL SECT.	10'-0"	10'-0"	----	----	R	S	T	
3		B	HM INSUL.	3'-0"	7'-0"	1 3/4"	1	Y	Z	J	
4		B	HM INSUL.	3'-0"	7'-0"	1 3/4"	1	Y	Z	J	
5		H	STEEL SECT.	10'-0"	10'-0"	----	----	R	S	T	
6	FR.	B	HM INSUL.	3'-0"	7'-0"	1 3/4"	2	Y	Z	J	
7	FR.	B	HM INSUL.	3'-0"	7'-0"	1 3/4"	2	Y	Z	J	
8		J	STEEL SECT.	12'-0"	12'-0"	----	----	R	S	T	
9		J	STEEL SECT.	12'-0"	12'-0"	----	----	R	S	T	
10		B	HM INSUL.	3'-0"	7'-0"	1 3/4"	1	Y	Z	J	
11		H	STEEL SECT.	10'-0"	10'-0"	----	----	R	S	T	
12		B	HM INSUL.	3'-0"	7'-0"	1 3/4"	1	Y	Z	J	
13	FR.	C	HM INSUL.	3'-0"	7'-0"	1 3/4"	2	Y	Z	J	
14		B	HM INSUL.	3'-0"	7'-0"	1 3/4"	1	Y	Z	J	
15		H	STEEL SECT.	10'-0"	10'-0"	----	----	R	S	T	
16	FR.	A	ALUM.	3'-0"	7'-0"	----	----	D	E	F	STORE FRONT 'S'
17		D	SCN	3'-0"	7'-0"	1 3/4"	4	X	X	----	
18		D	SCN	3'-0"	7'-0"	1 3/4"	4	X	X	----	
19		F	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
20		F	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
21		F	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
22		F	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
23	FR.	E	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
24		E	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
25		E	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
26		F	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
27		F	SCN	3'-0"	7'-0"	1 3/4"	4	X	X	----	
28		F	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
29		E	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
30	FR.	E	SCN	3'-0"	7'-0"	1 3/4"	4	X	X	----	
31		E	SCN	3'-0"	7'-0"	1 3/4"	4	X	X	----	
32		E	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
33		F	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
34		F	SCN	3'-0"	7'-0"	1 3/4"	4	X	X	----	
35		F	SCN	3'-0"	7'-0"	1 3/4"	4	X	X	----	
36		E	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
37		F	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
38	FR.	F	SCN	3'-0"	7'-0"	1 3/4"	4	X	X	----	
39		G	STEEL SECT.	8'-0"	8'-0"	----	----	R	S	T	
40	FR.	C	HM INSUL.	3'-0"	7'-0"	1 3/4"	2	Y	Z	J	
41		C	HM INSUL.	3'-0"	7'-0"	1 3/4"	4	X	X	----	
42		E	SCN	3'-0"	7'-0"	1 3/4"	4	X	X	----	
43		F	SCN	3'-0"	7'-0"	1 3/4"	4	X	X	----	
44		F	SCN	3'-0"	7'-0"	1 3/4"	4	X	X	----	
45		F	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
46		E	SCN	3'-0"	7'-0"	1 3/4"	3	U	V	----	
47		J	STEEL SECT.	12'-0"	12'-0"	----	----	R	S	T	
48		B	HM INSUL.	3'-0"	7'-0"	1 3/4"	1	G	H	J	HARDWARE SET 4
49		B	HM INSUL.	3'-0"	7'-0"	1 3/4"	1	G	H	J	HARDWARE SET 4

PROJECT NO. 2019-34	DESIGNED BY ENJ/BLL	DATE 08-24-18	REVISION 48 1 41	BY
DRAWN BY	CHECKED BY	DATE	REVISION	REVISION
REVIEWED BY	DATE	SCALE	AS NOTED	

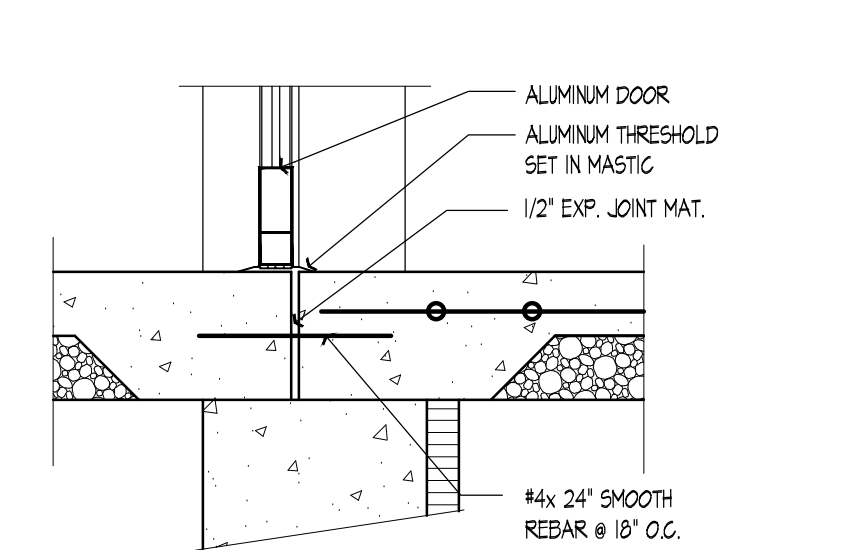
nse
 OF KENTUCKY, INC.
 Engineers
 Architects
 Planners
 Phone: (859) 223-5684
 Fax: (859) 223-2607
 624 Wellington Way
 Lexington, KY 40503
 www.nseinc.com



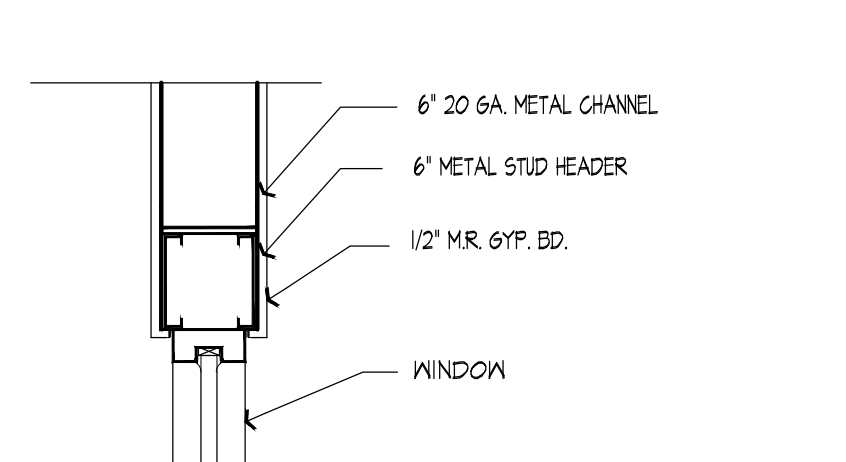
EXTERIOR DOOR HEAD
SCALE: 1" = 1'-0"



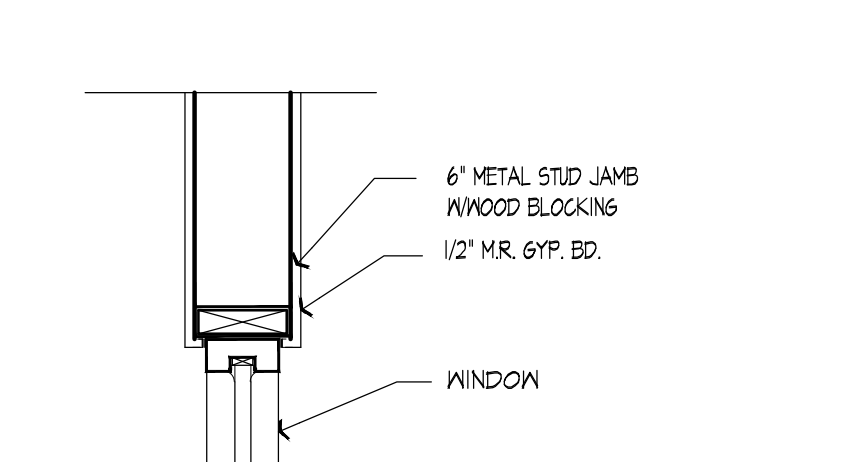
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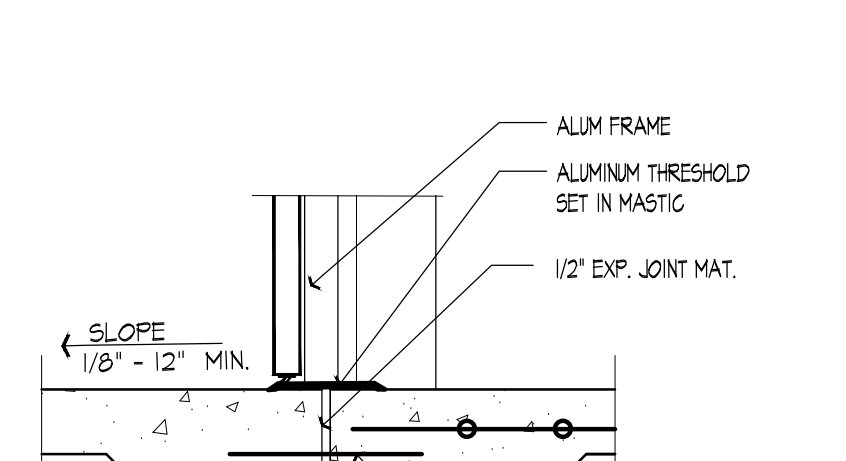
EXTERIOR DOOR JAMB
SCALE: 1" = 1'-0"



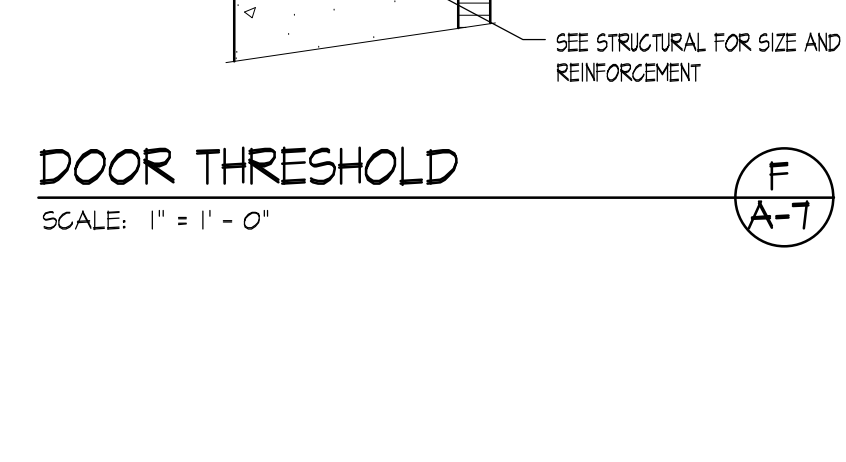
DOOR THRESHOLD
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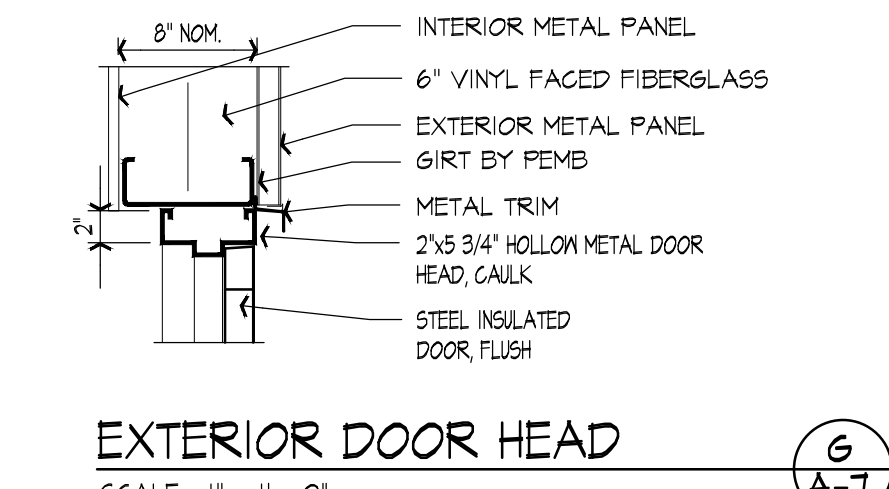
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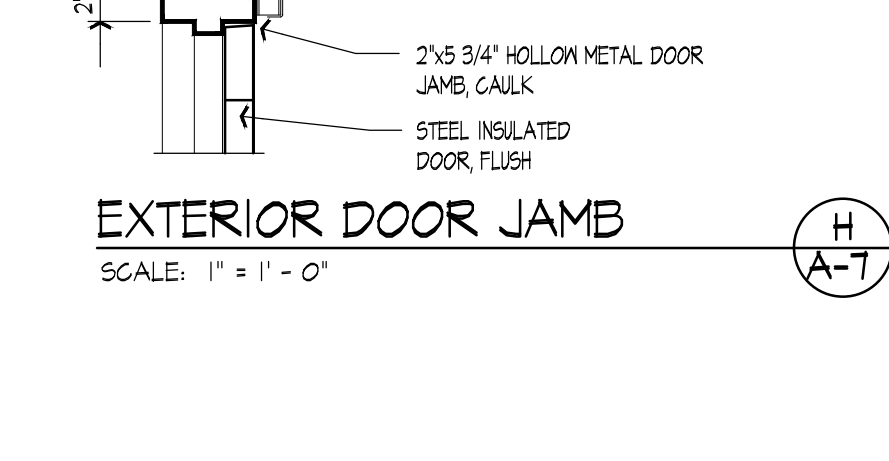
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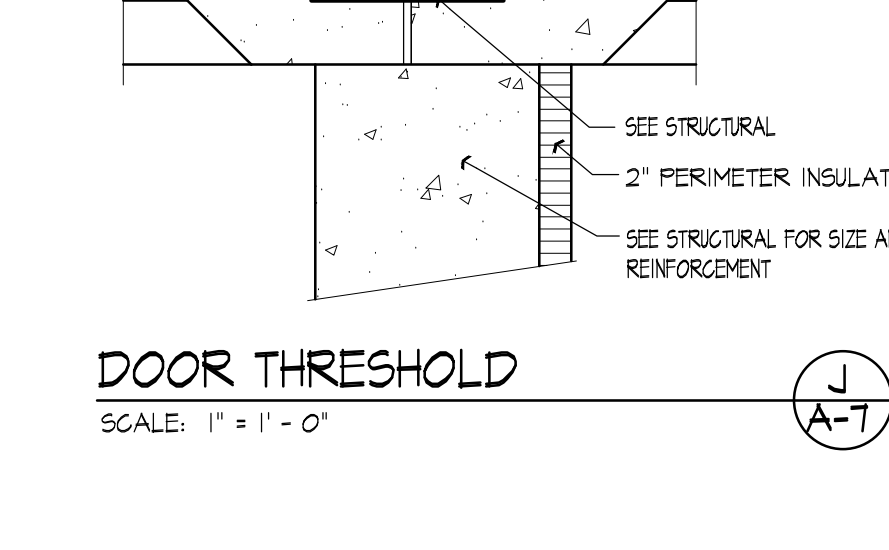
DOOR THRESHOLD
SCALE: 1" = 1'-0"



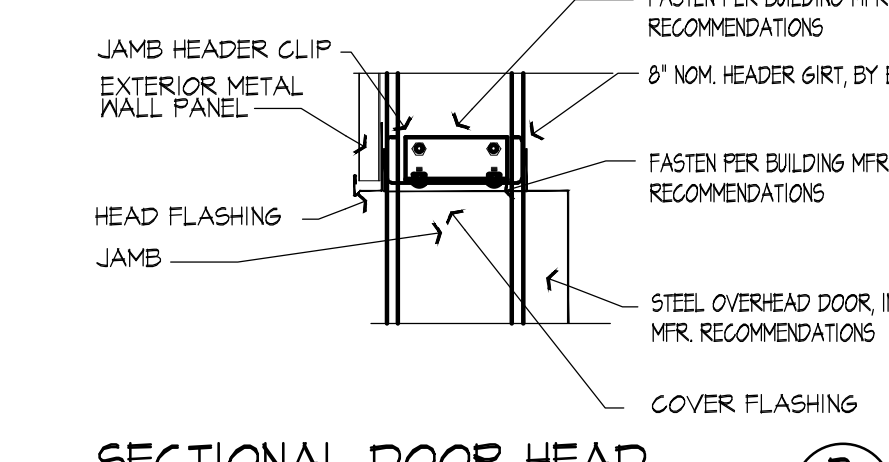
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SCALE: 1" = 1'-0"



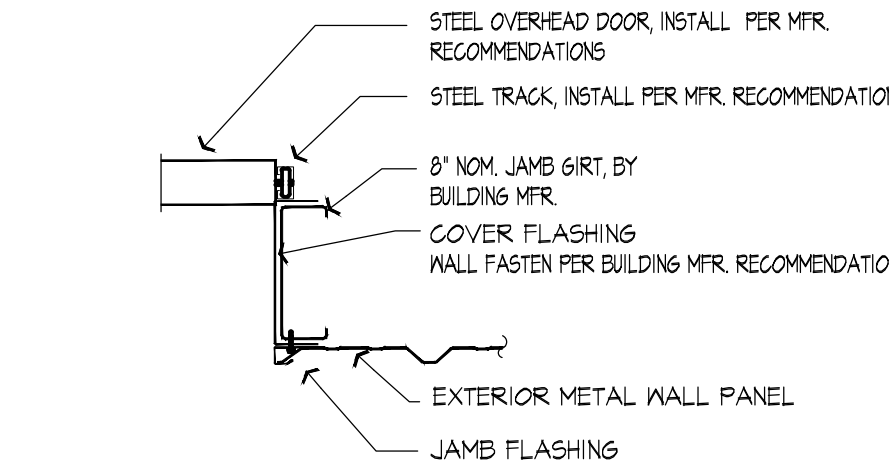
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SCALE: 1" = 1'-0"



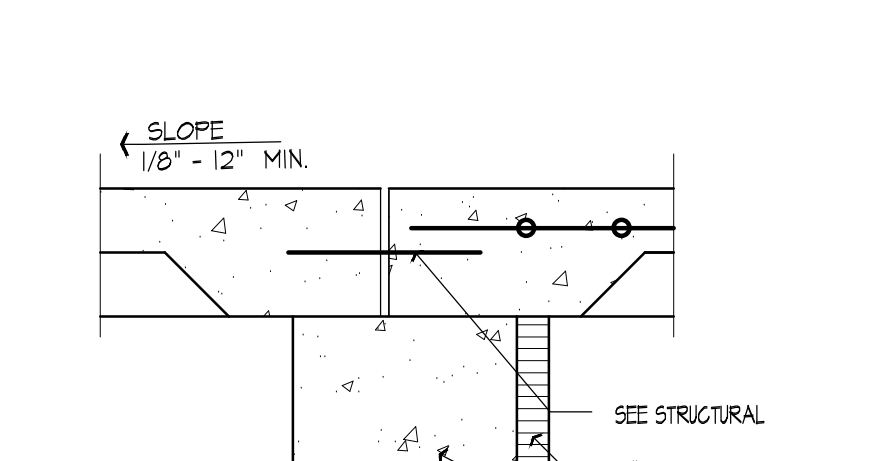
DOOR THRESHOLD
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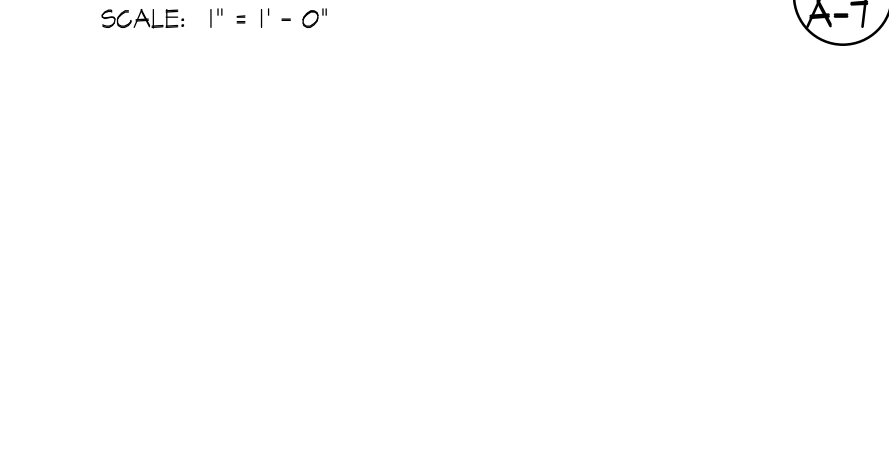
SECTIONAL DOOR HEAD
SCALE: 1" = 1'-0"



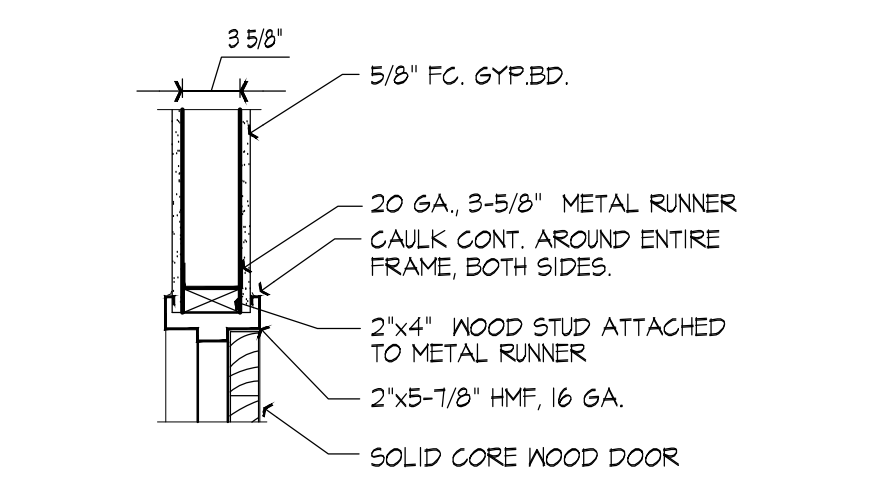
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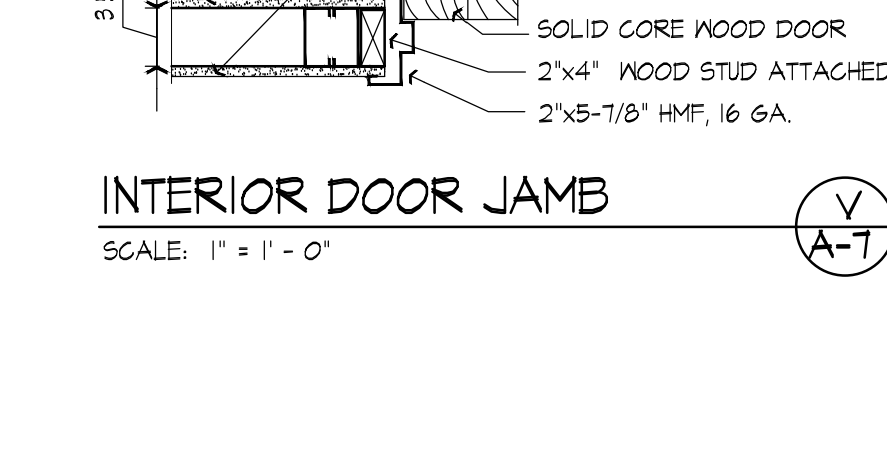
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SCALE: 1" = 1'-0"



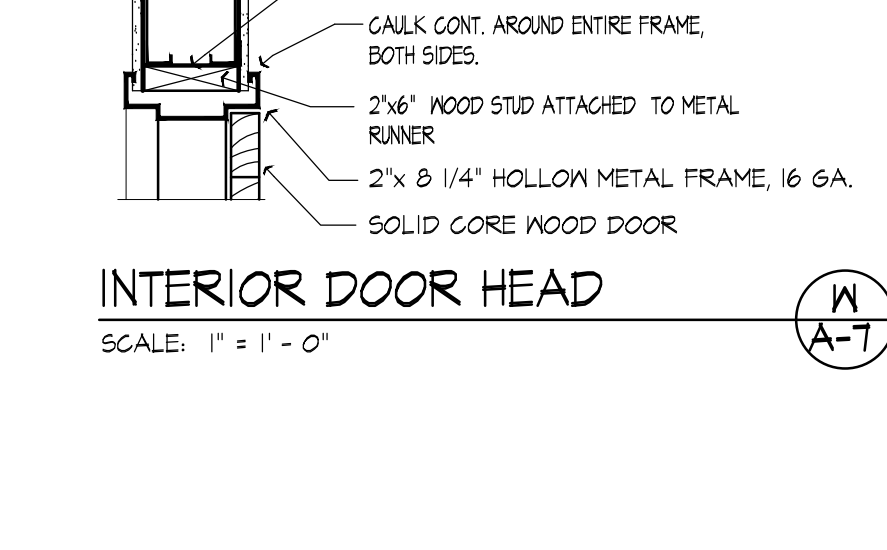
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SCALE: 1" = 1'-0"



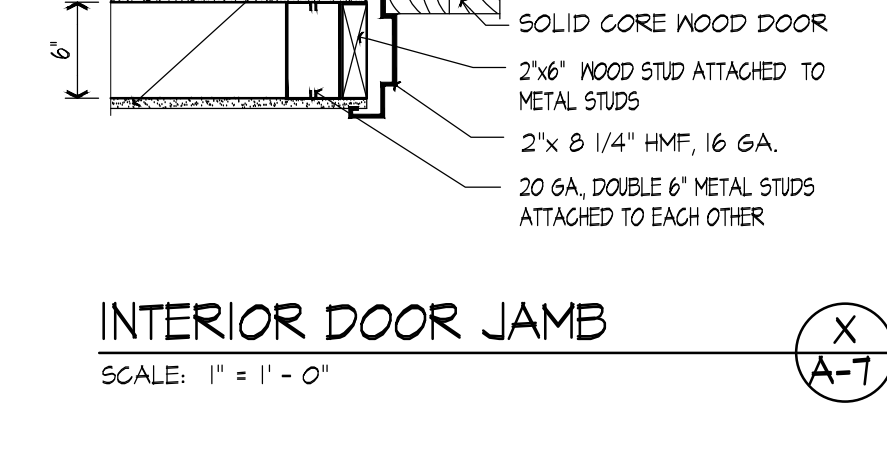
INTERIOR DOOR HEAD
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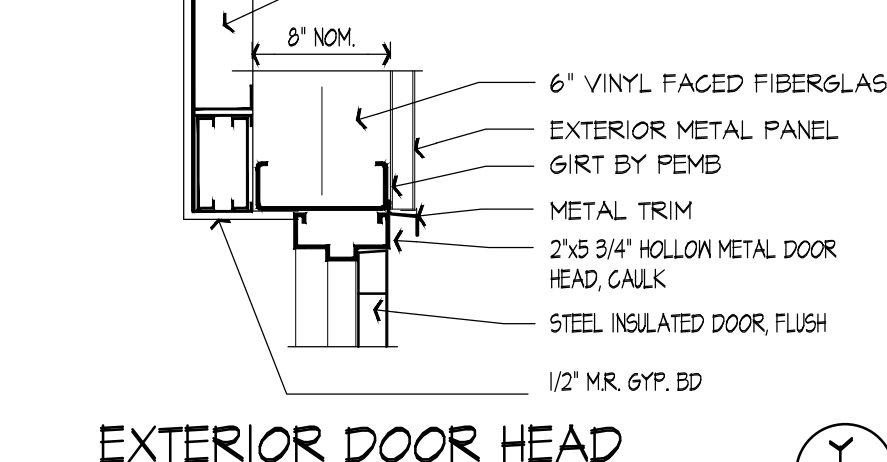
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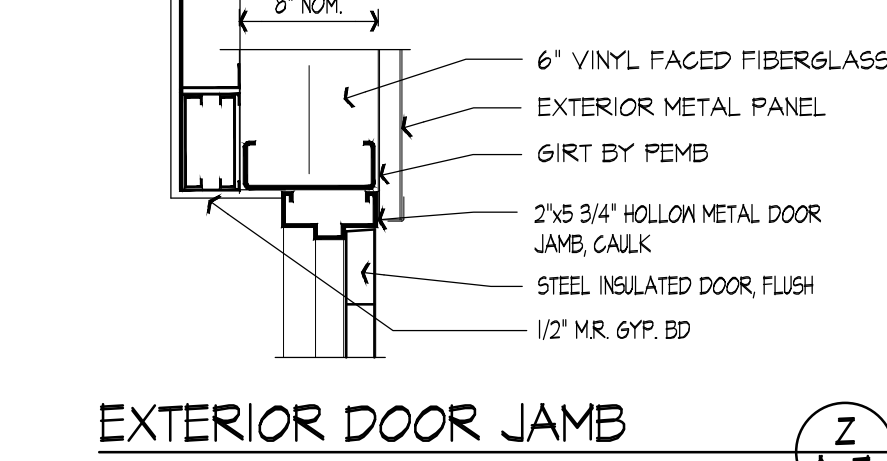
INTERIOR DOOR HEAD
SCALE: 1" = 1'-0"



INTERIOR DOOR JAMB
SCALE: 1" = 1'-0"



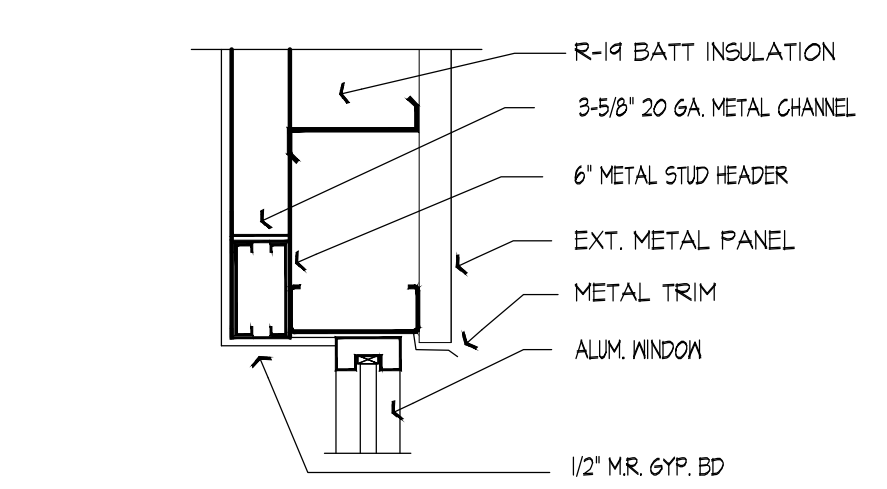
EXTERIOR DOOR HEAD
SCALE: 1" = 1'-0"



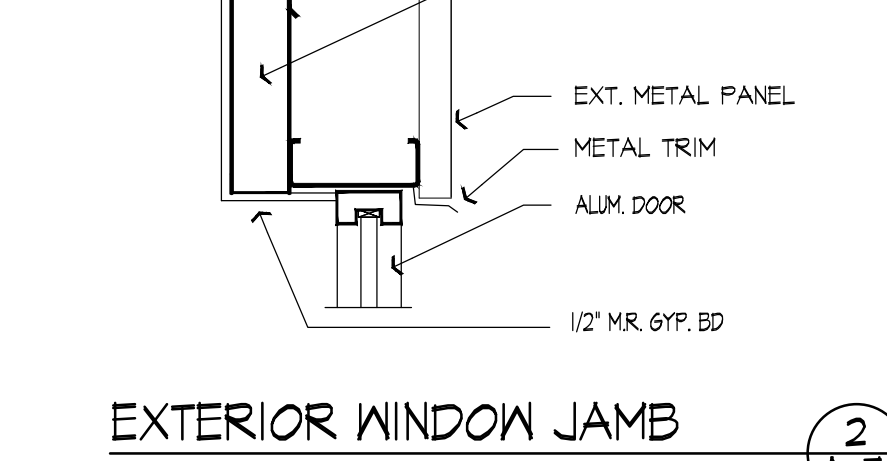
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SCALE: 1" = 1'-0"



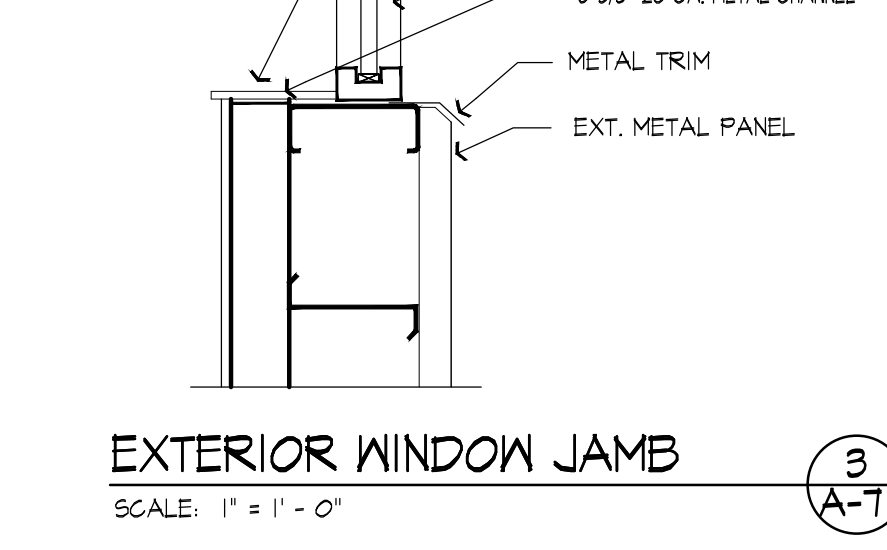
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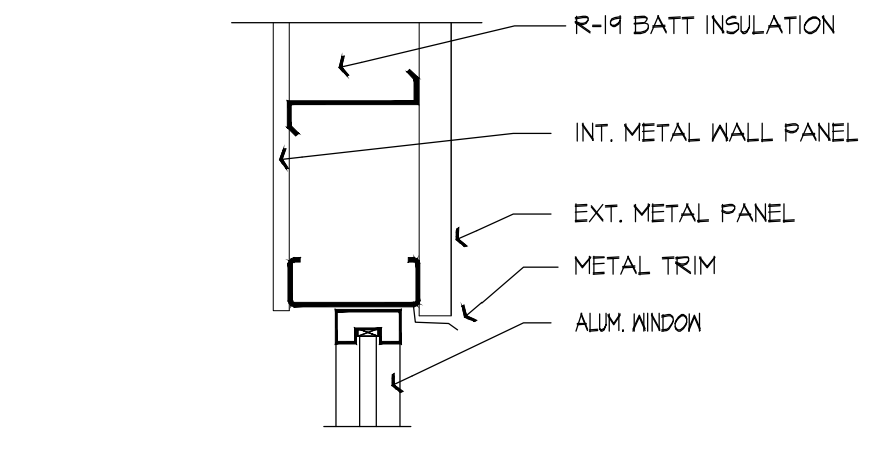
EXTERIOR WINDOW HEAD
SCALE: 1" = 1'-0"



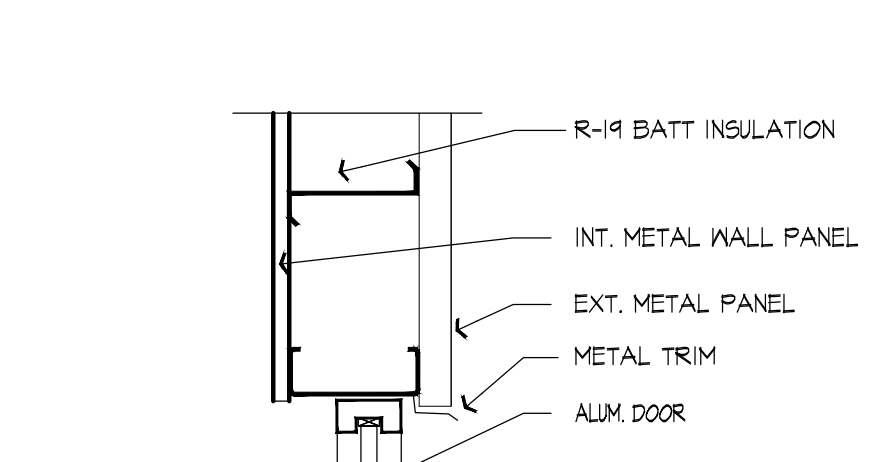
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SCALE: 1" = 1'-0"



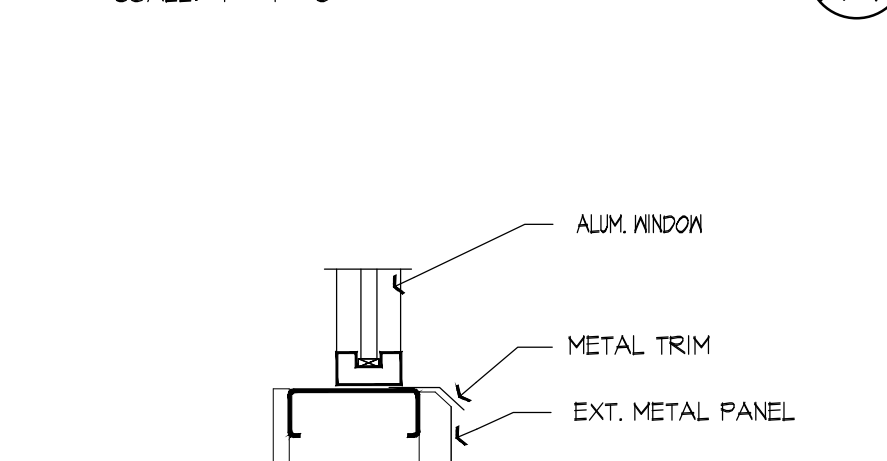
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SCALE: 1" = 1'-0"



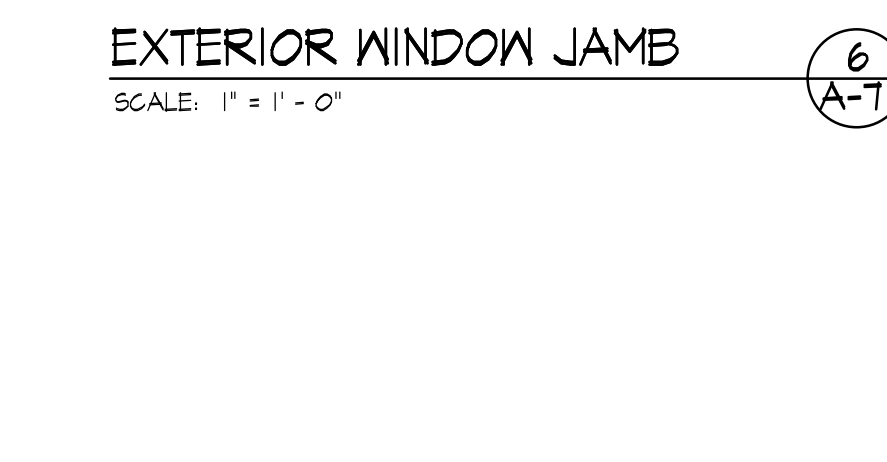
EXTERIOR WINDOW HEAD
SCALE: 1" = 1'-0"



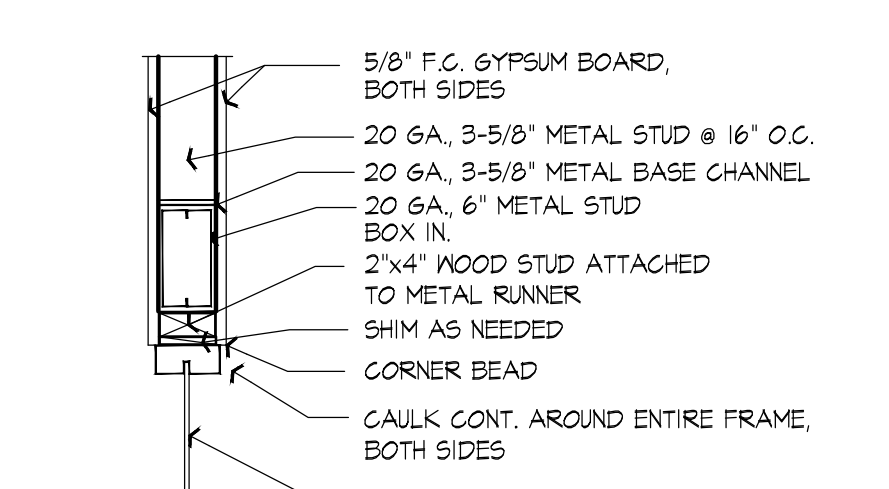
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SCALE: 1" = 1'-0"



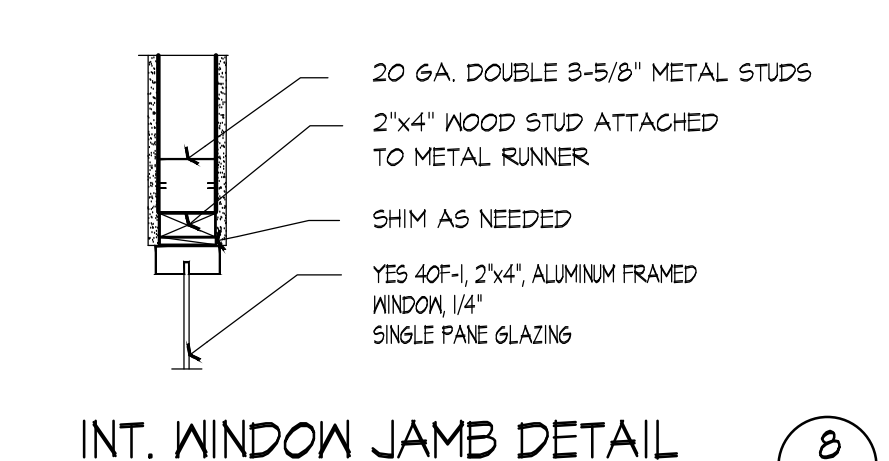
EXTERIOR WINDOW JAMB
SCALE: 1" = 1'-0"



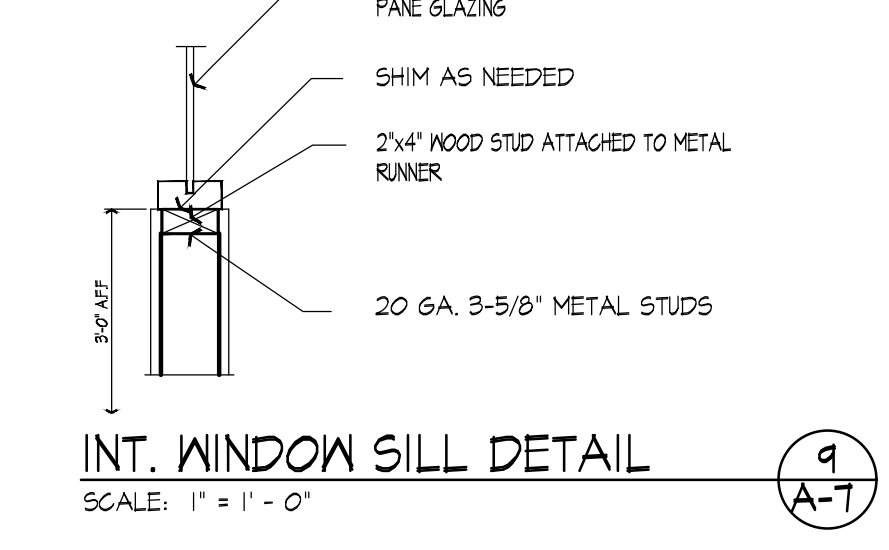
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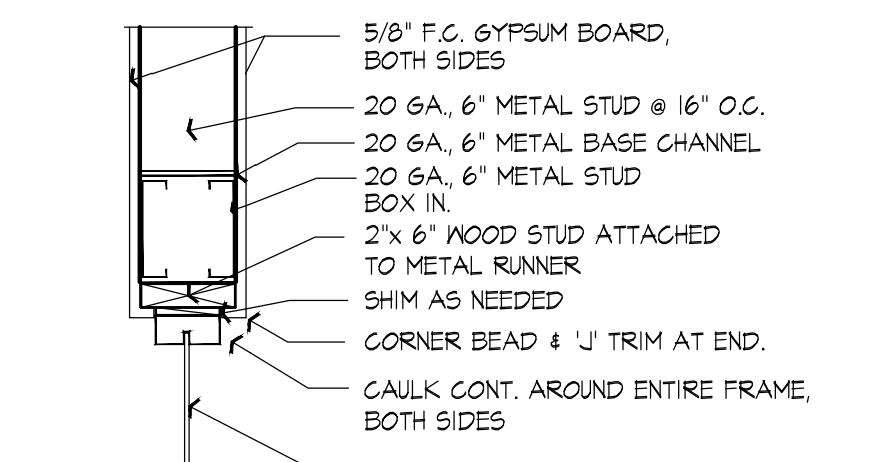
INT. WINDOW HEAD DETAIL
SCALE: 1" = 1'-0"



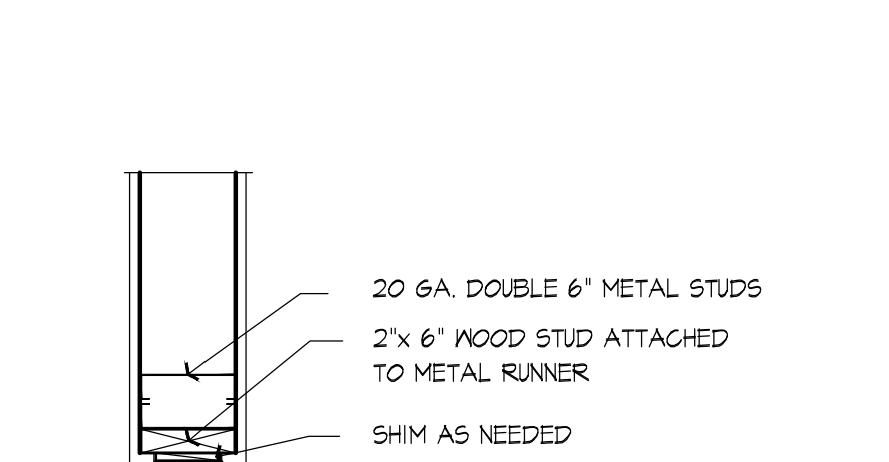
INT. WINDOW JAMB DETAIL
SCALE: 1" = 1'-0"



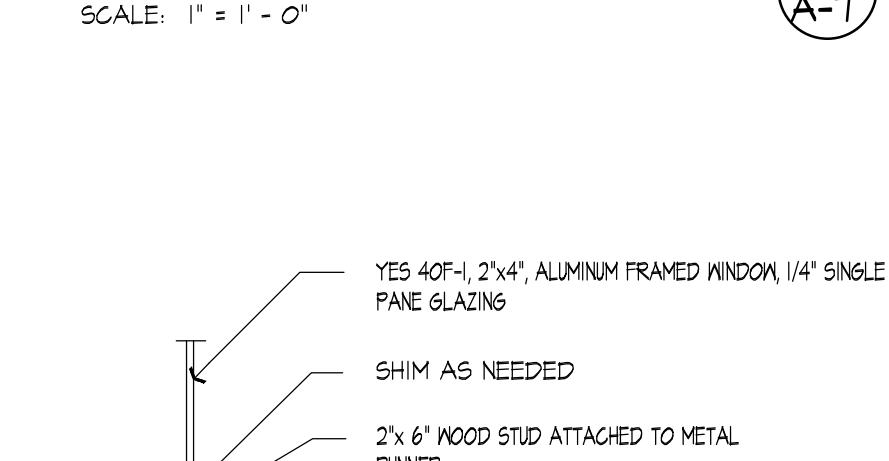
INT. WINDOW SILL DETAIL
SCALE: 1" = 1'-0"



INT. WINDOW HEAD DETAIL
SCALE: 1" = 1'-0"



INT. WINDOW JAMB DETAIL
SCALE: 1" = 1'-0"



INT. WINDOW SILL DETAIL
SCALE: 1" = 1'-0"



INT. WINDOW SILL DETAIL
SCALE: 1" = 1'-0"

DETAILS K, L, M, N & O: NOT USED.

DATE	REVISION	BY
08-24-24	R-1	

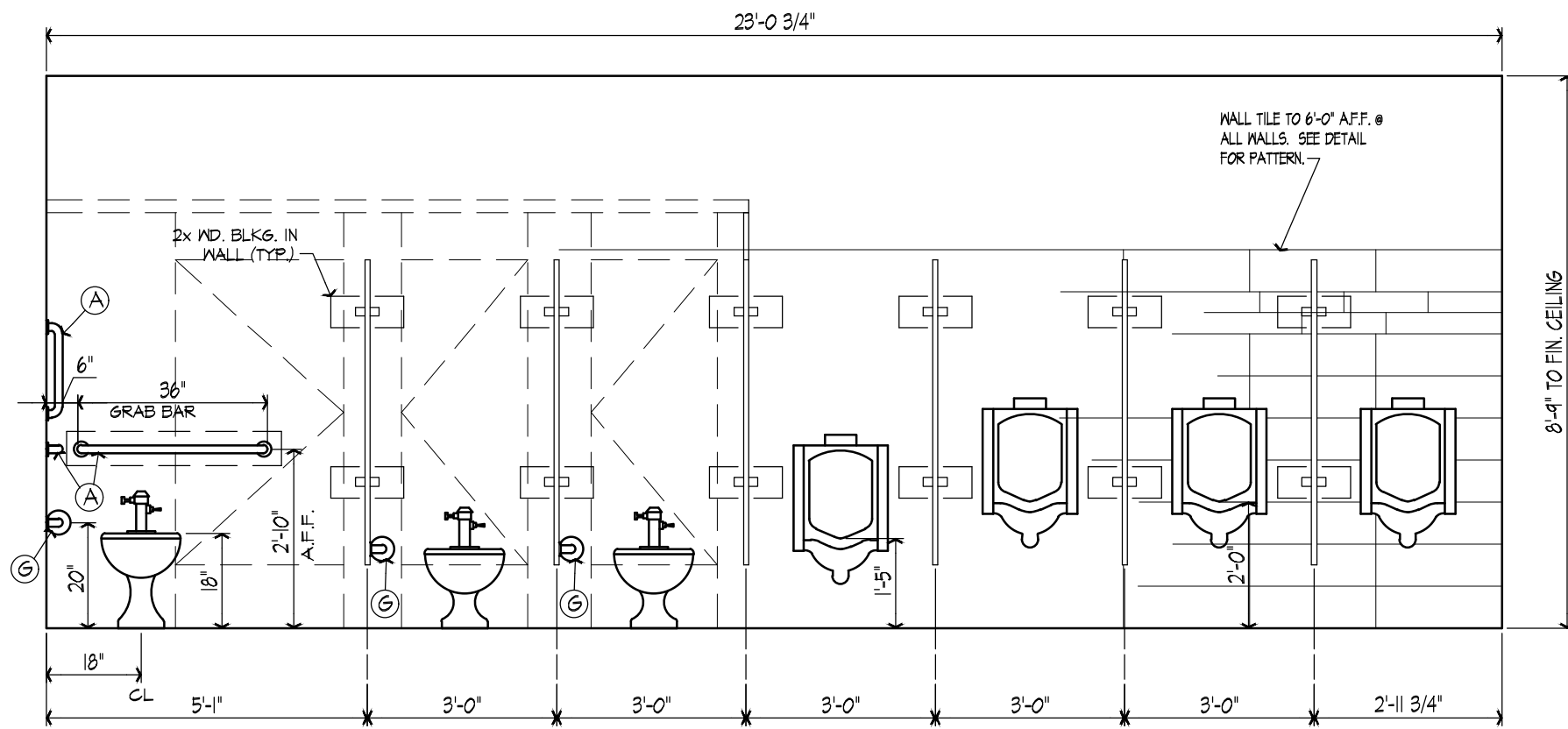
PROJECT NO.	DESIGNED BY	DRAWN BY	CHECKED BY	DATE
20210-34	ENJ/BLL	BLL		JANUARY 2024

DATE	REVISION	BY

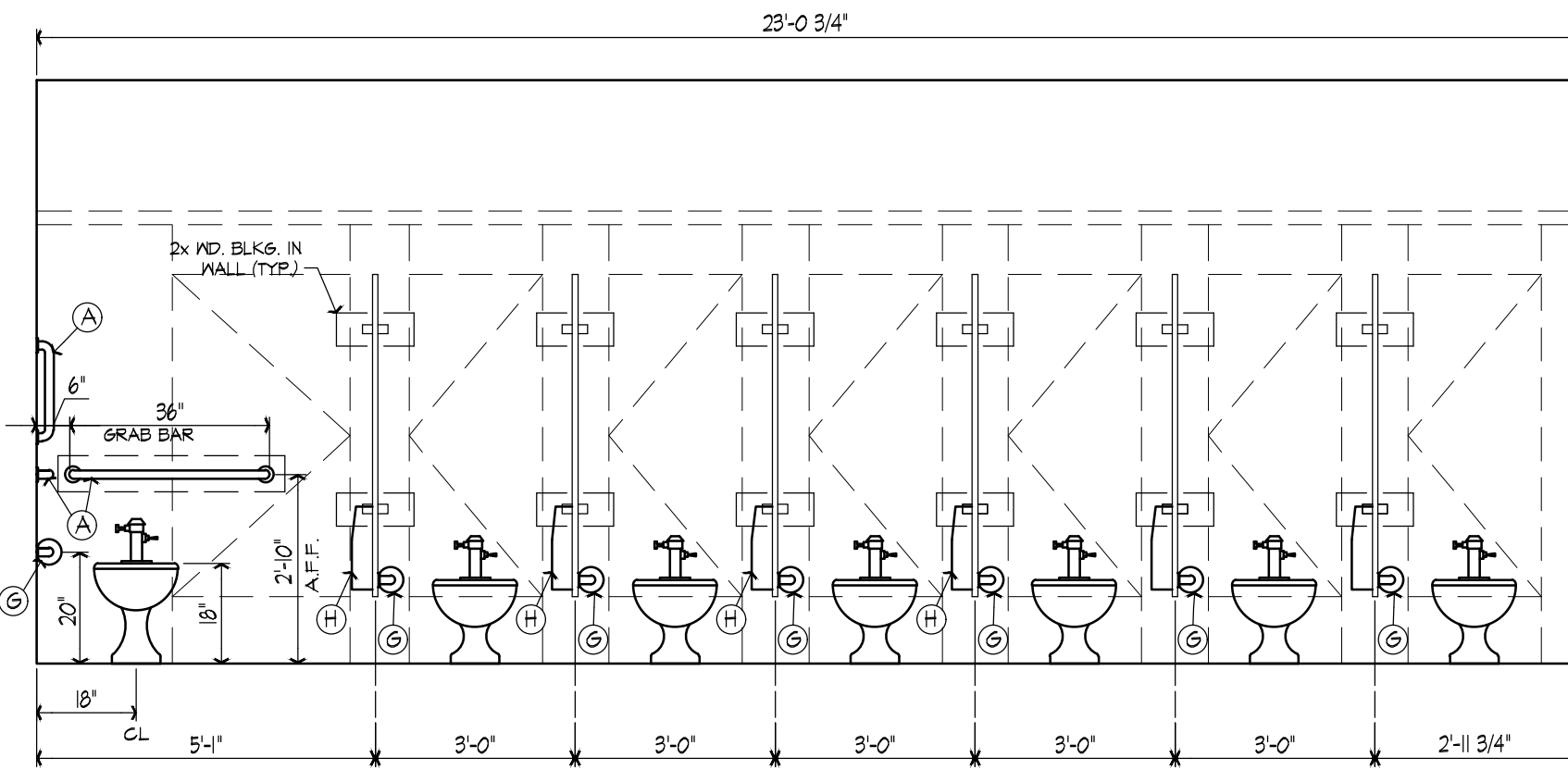
nse
OF KENTUCKY, INC.
Engineers
Architects
Planners
624 Wellington Way
Lexington, KY 40503
www.nseinc.com
Phone: (859) 223-5684
Fax: (859) 223-2807

INTERIOR ELEVATIONS

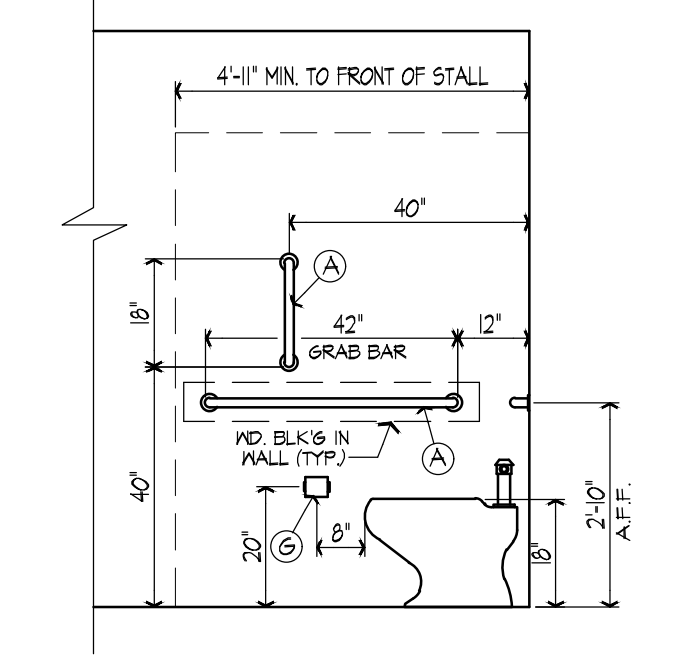
3/8" = 1'-0"



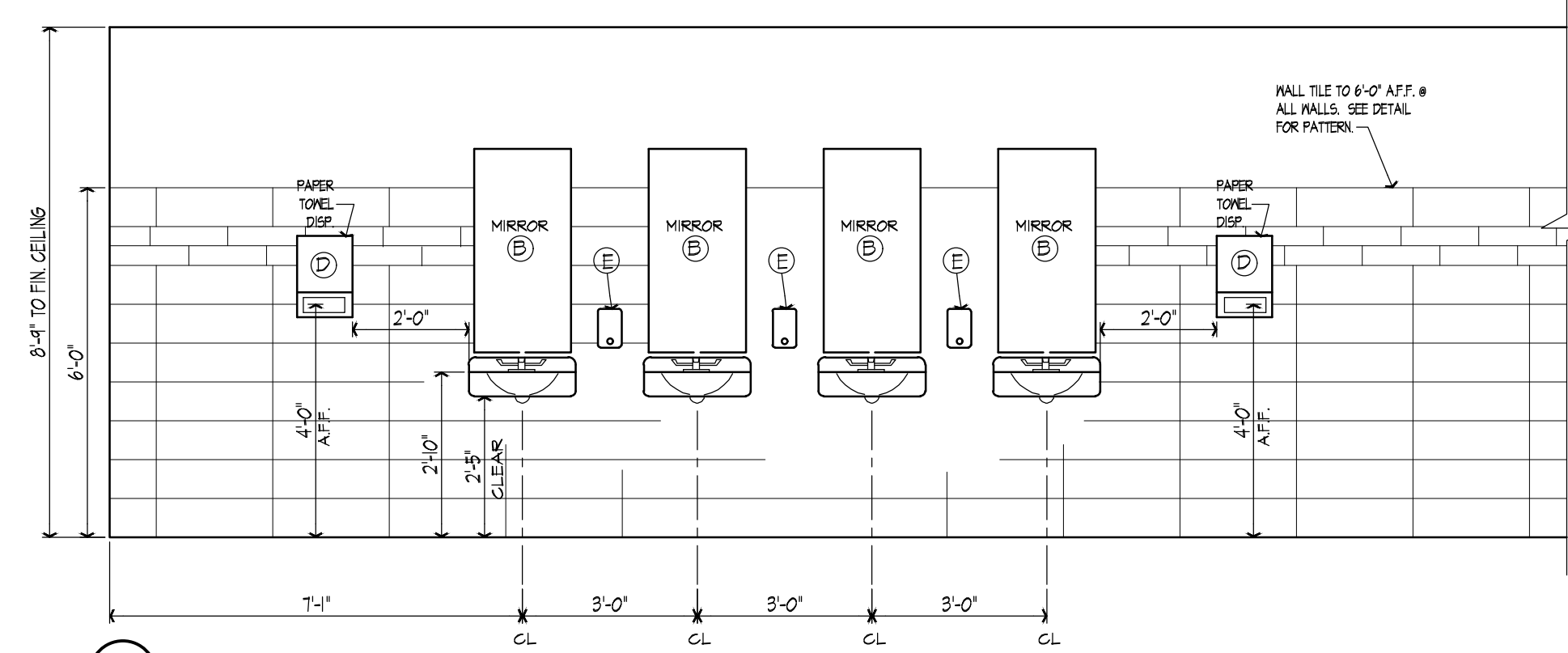
1 MEN (129)



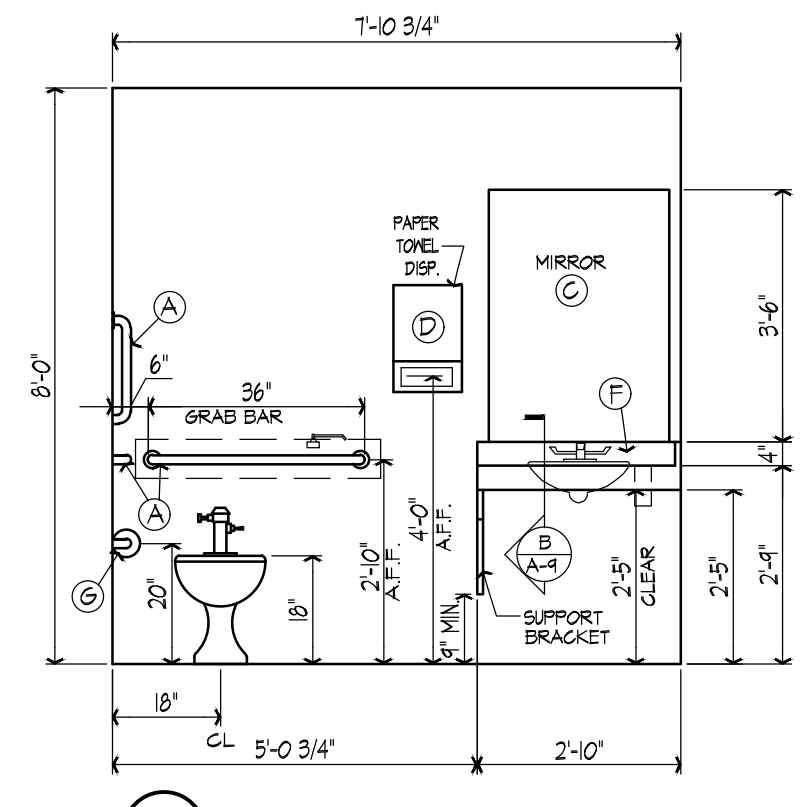
2 WOMEN (128)



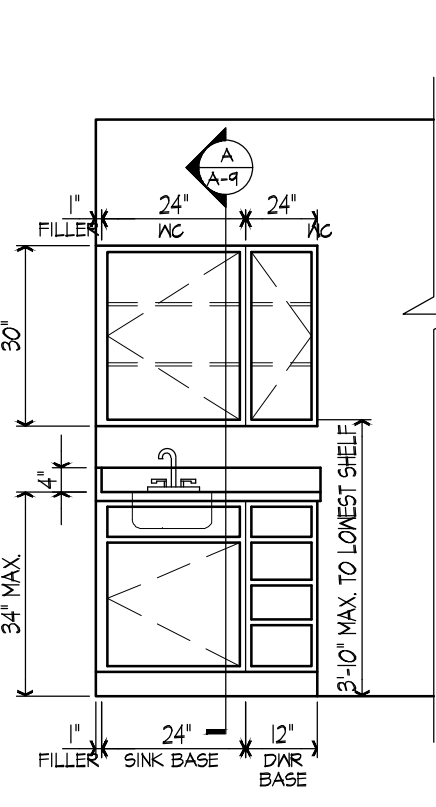
3 TYPICAL SIDE VIEW
(for ADA toilet & accessories)



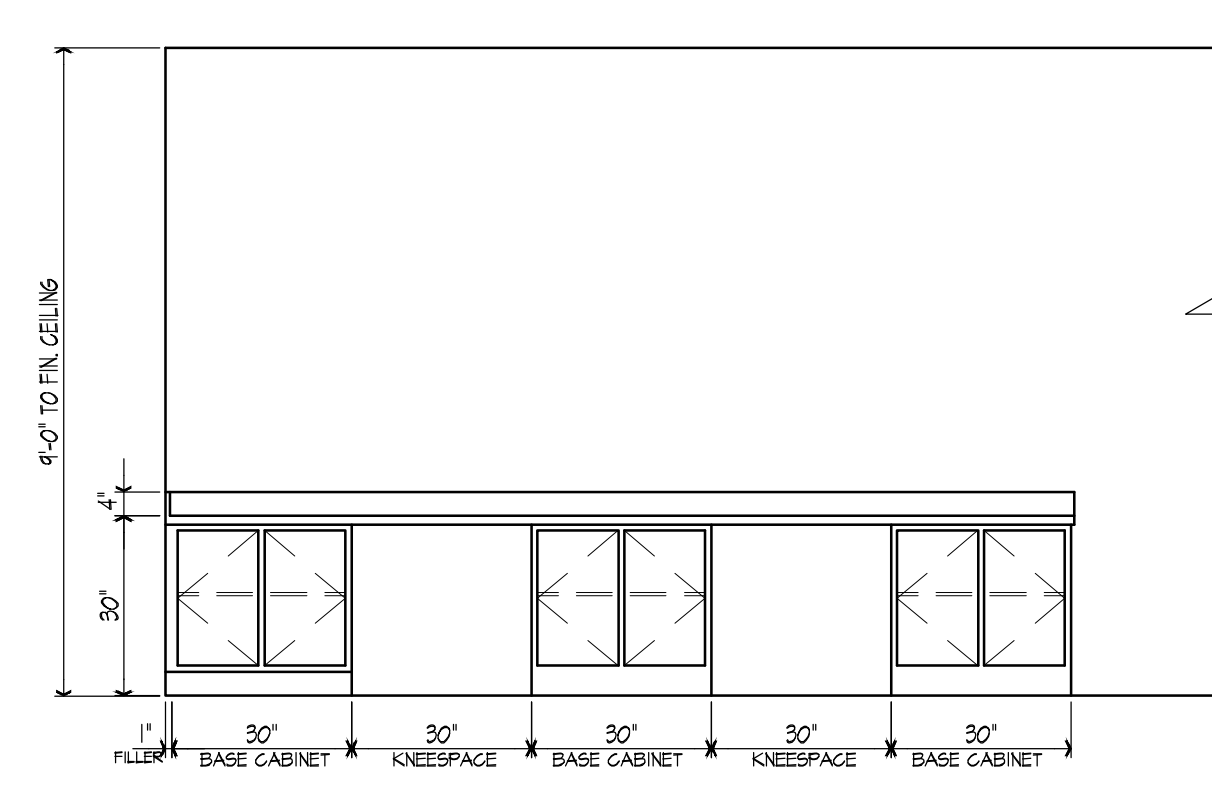
4 MEN (129)
WOMEN (128)



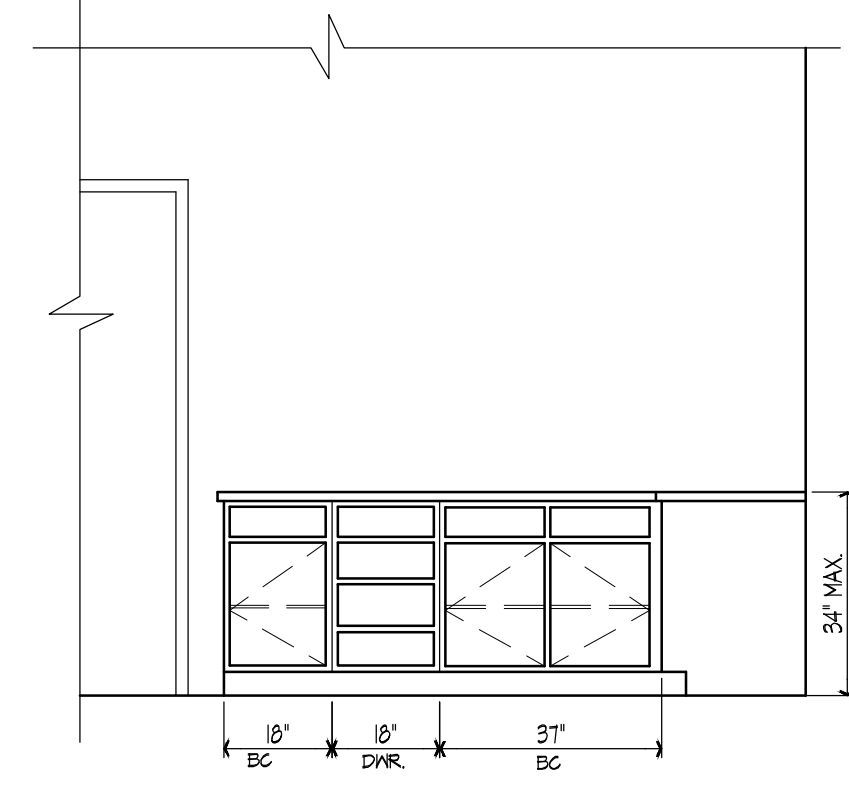
5 TOILET (108 & 109)



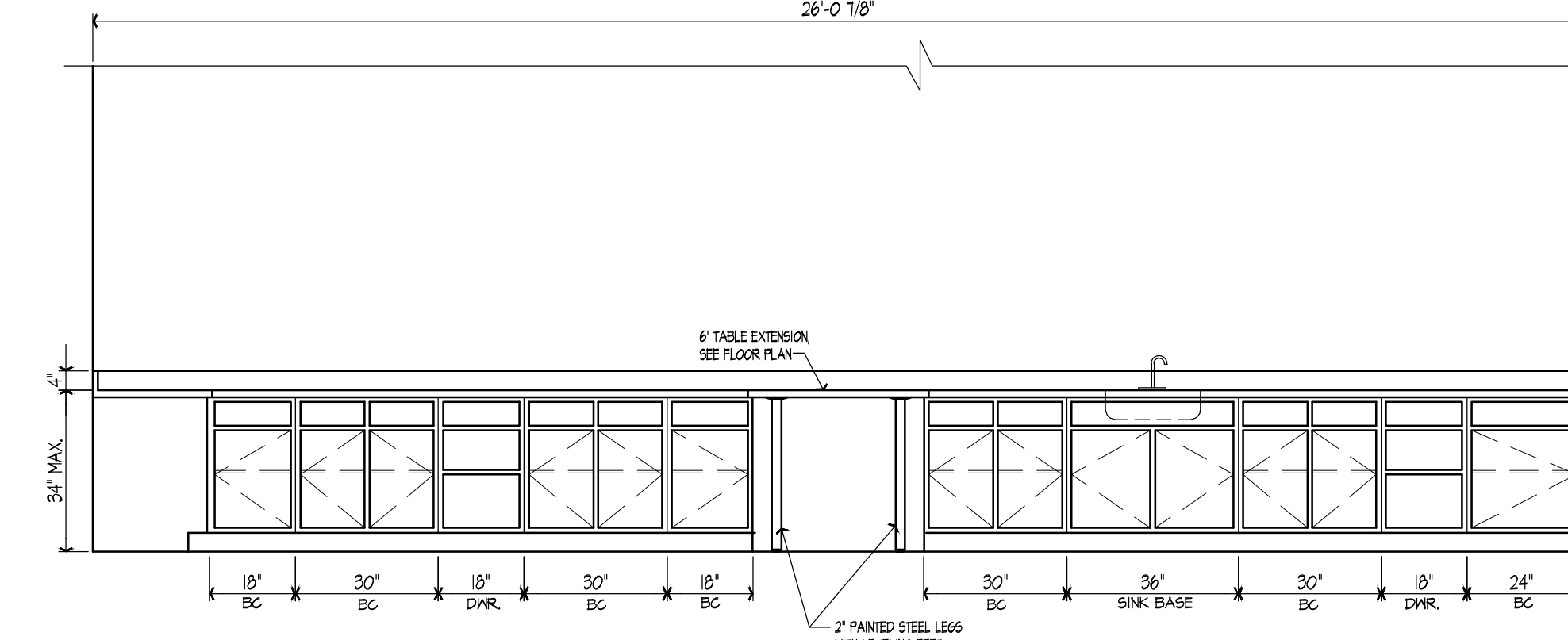
6 FIRST AID (110)



7 CLASSROOM (123)

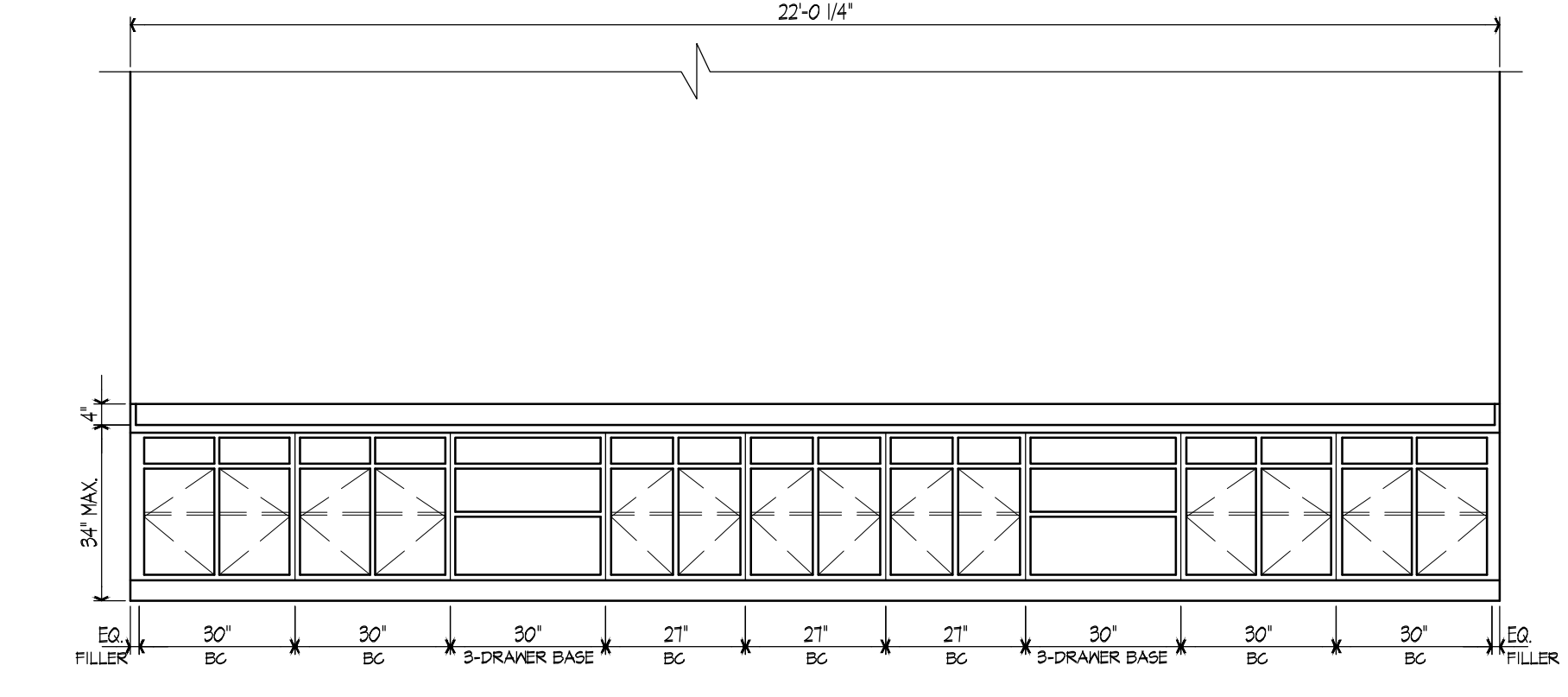


8 GENERAL LAB (112)

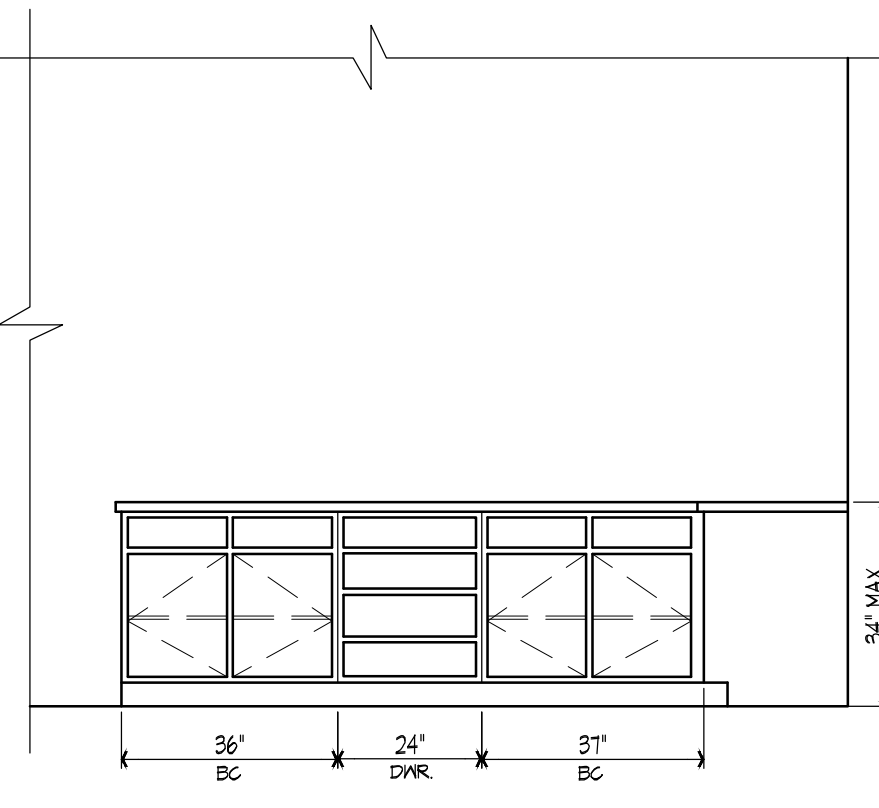


9 GENERAL LAB (112)

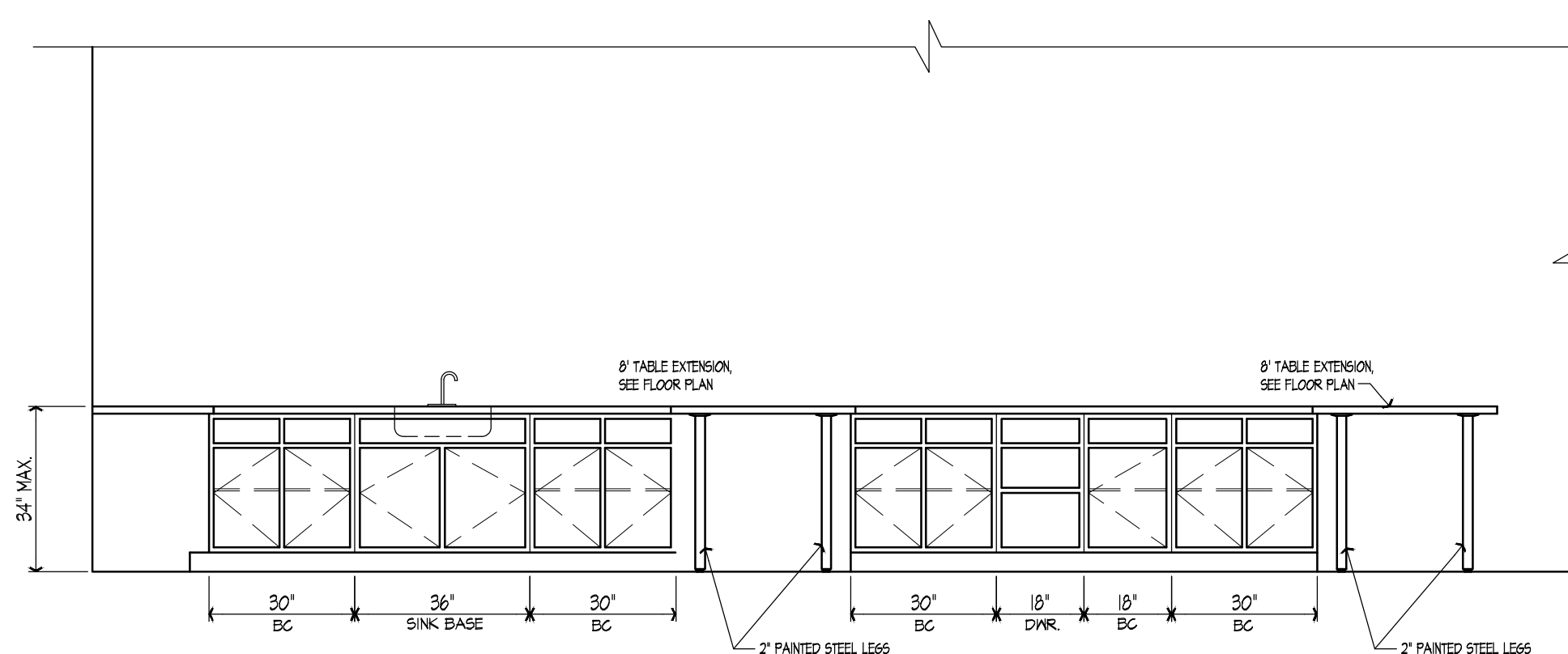
NOTE:
ALL CLASSROOM AND LAB CABINETS AND DRAWERS
TO HAVE LOCKS, KEYED ALIKE PER EACH ROOM.



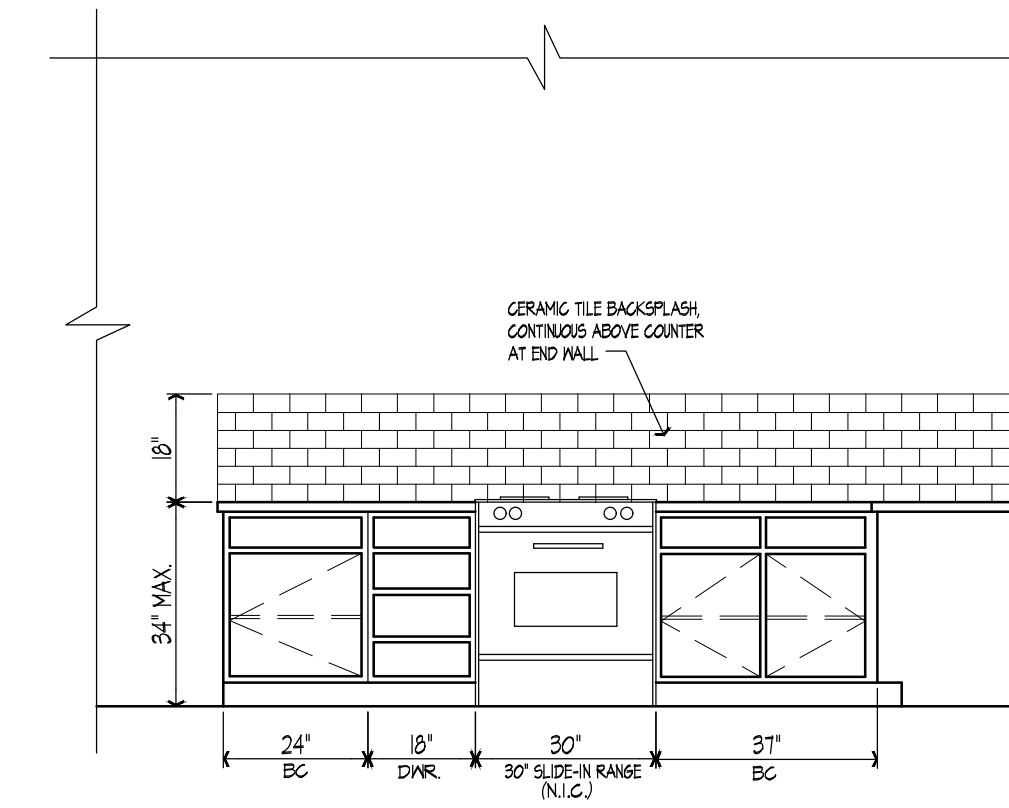
10 AG SCIENCE LAB (125)



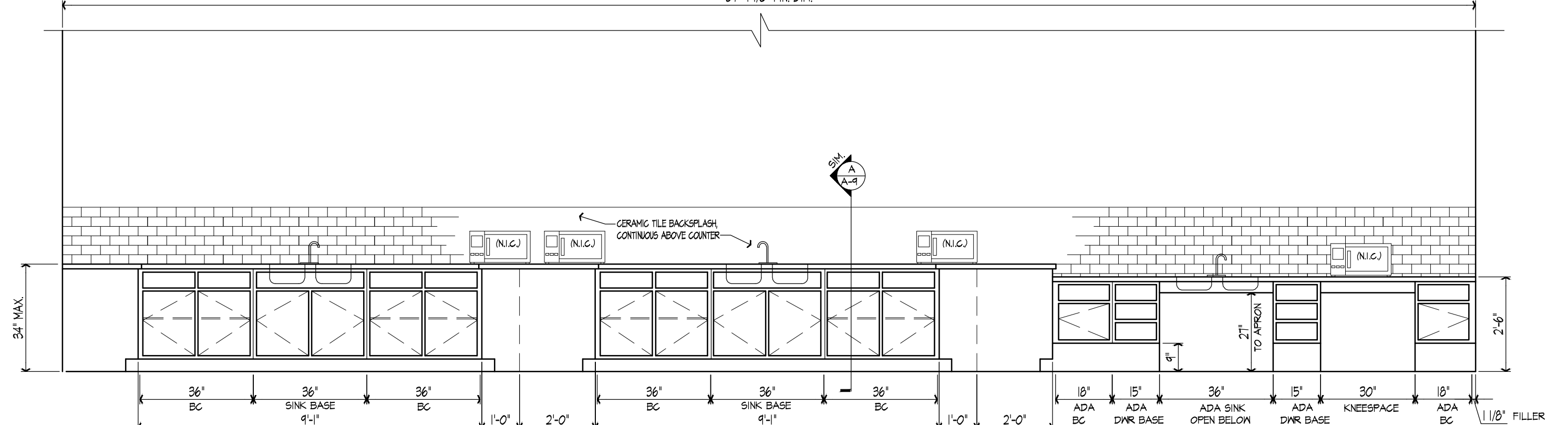
11 VET & ANIMAL SCIENCE LAB (122)



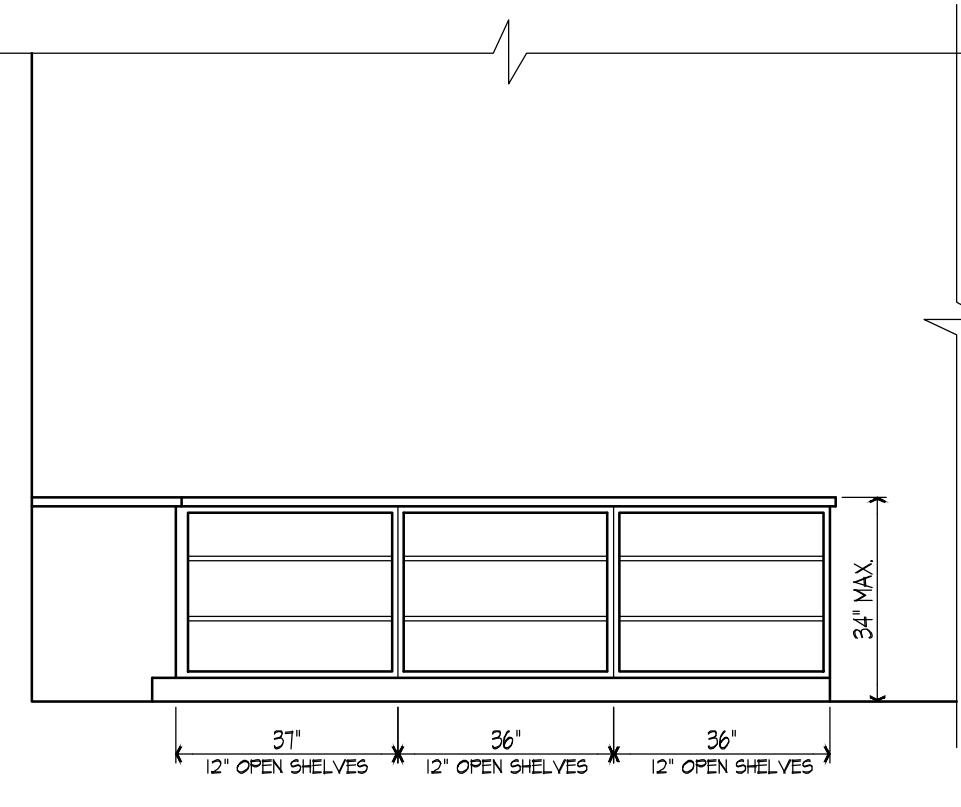
12 VET & ANIMAL SCIENCE LAB (122)



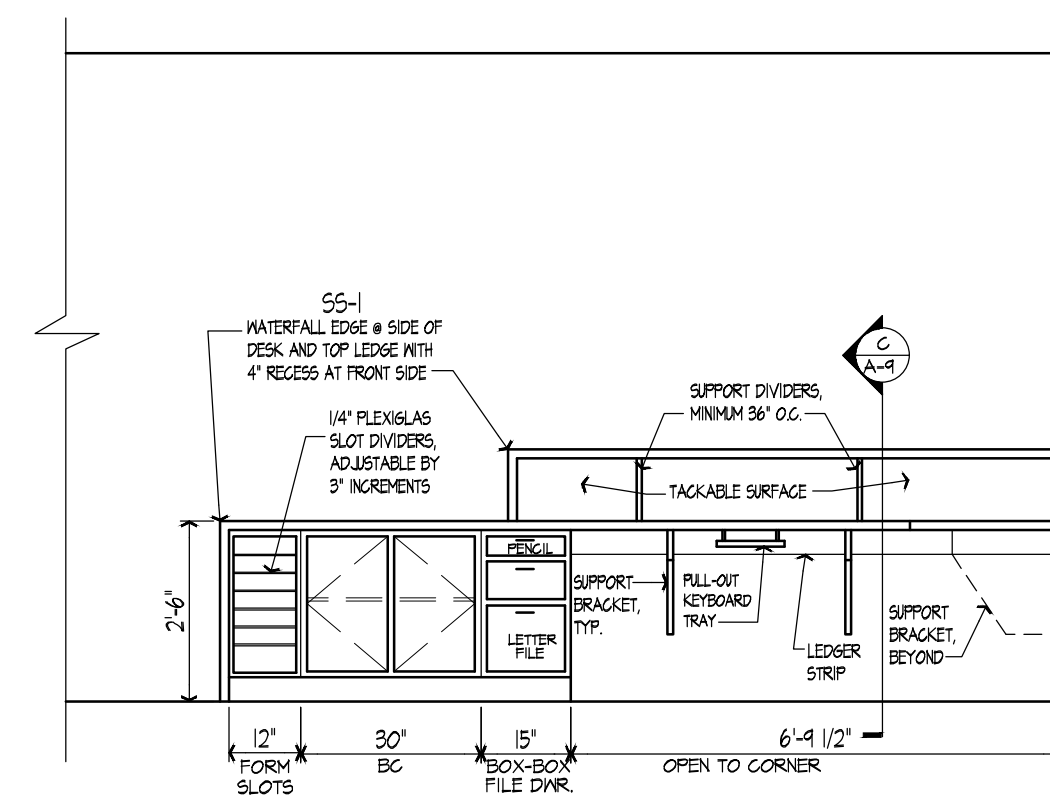
13 FOOD SCIENCE LAB (118)



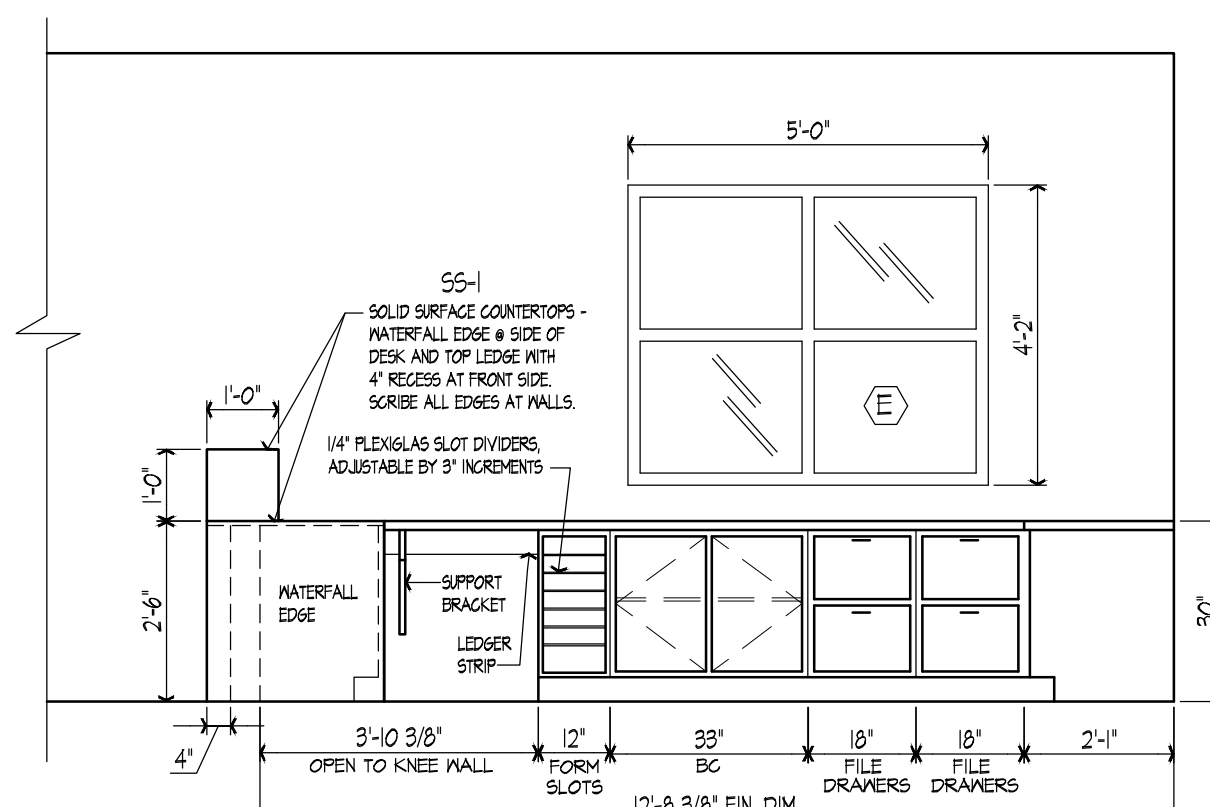
14 FOOD SCIENCE LAB (118)



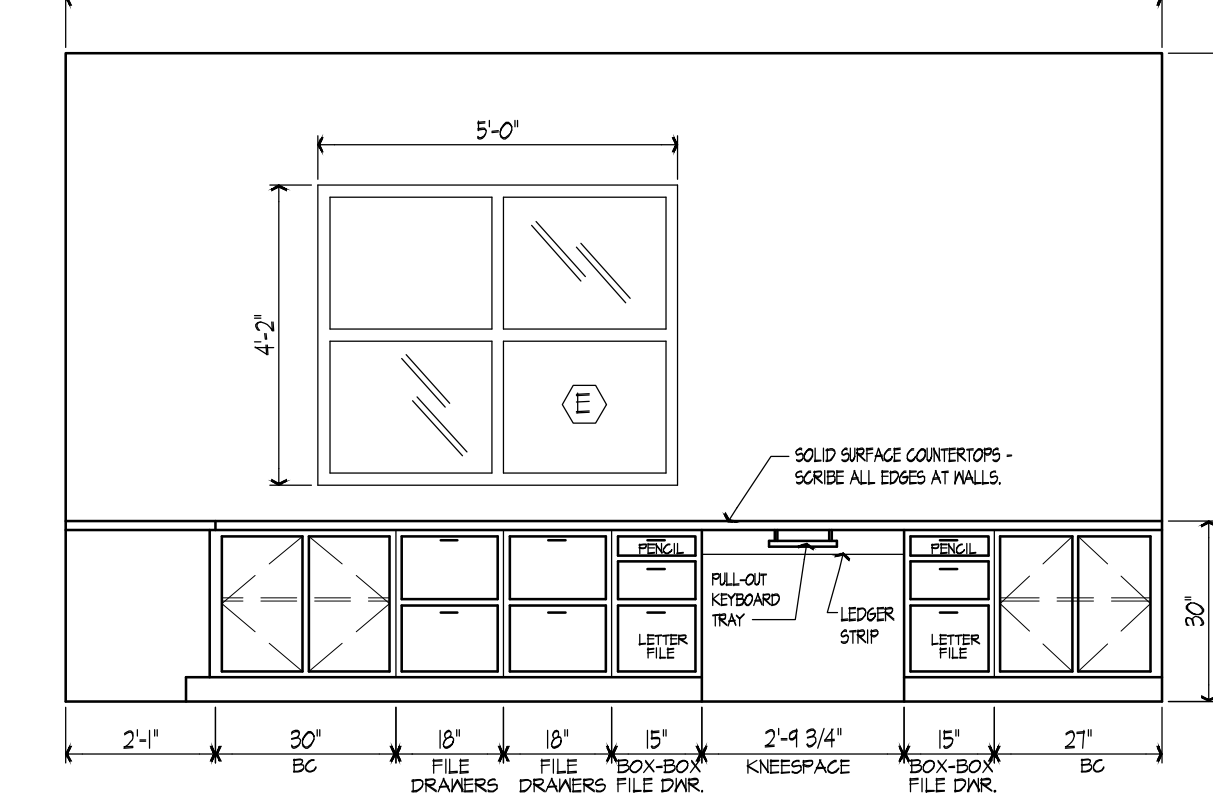
15 FOOD SCIENCE LAB (118)



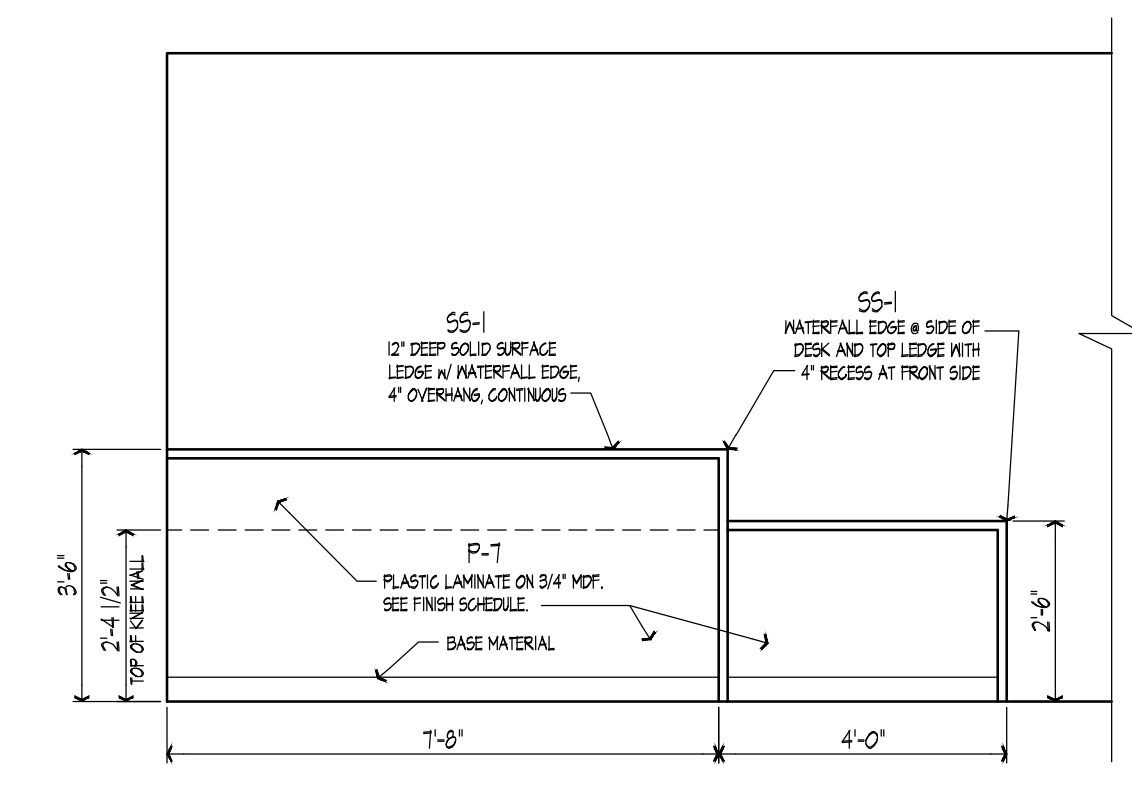
16 RECEPTION (102)



17 RECEPTION (102)



18 RECEPTION (102)



19 RECEPTION (102)



INTERIOR ELEVATIONS

The Seed Academy
Lake Cumberland Regional AgriTech Center
Russell Springs, Kentucky

DATE	REVISION

PROJECT NO. 2018-34
DESIGNED BY EN/BLL
DRAWN BY BLL
CHECKED BY
DATE JANUARY 2024
SCALE AS NOTED

MSA
OF KENTUCKY, INC.
Engineers
Architects
Planners

624 Wellington Way
Lexington, KY 40503
www.msa-ky.com

Phone: (859) 223-5684
Fax: (859) 223-2887

DRAWING NO.

A-8

SHEET OF



FINISH SCHEDULE & DETAILS

The Seed Academy
Lake Cumberland Regional AgriTech Center
Russell Springs, Kentucky

PROJECT NO.	DATE	REVISION
2018-24	9-5-24	R-1 FINISH SCHEDULE NOTE E REFERENCE TO SHEET A-4

**Engineers
Architects
Planners**

**MSA
OF KENTUCKY, INC.**

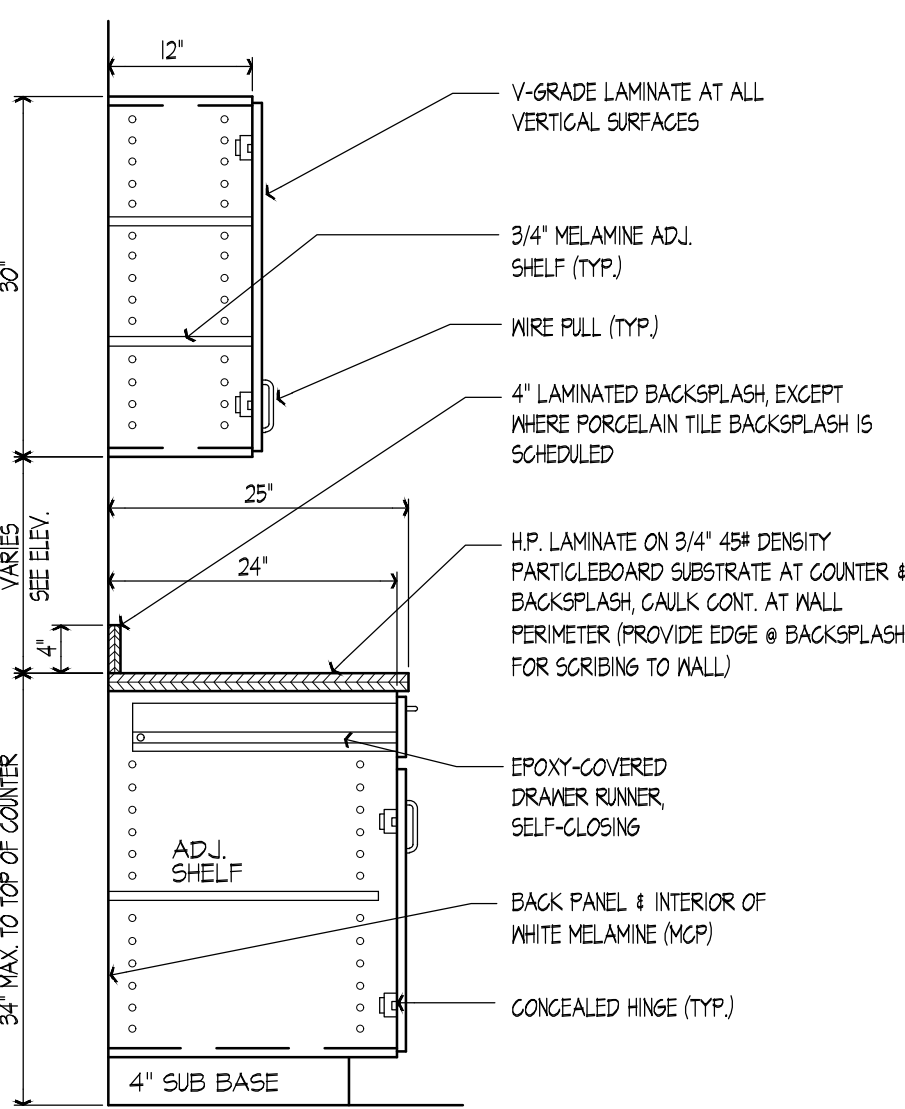
624 Washington Way
Lexington, KY 40503
Phone: (859)223-5800
Fax: (859)223-2807
www.msaek.com

ROOM #	ROOM NAME	FLOOR	BASE	WALLS	MISC.	CLG.	CLG. HT.
100	VESTIBULE		CON-2	B-2	P-10 ^H		A-2
101	LOBBY		CON-2	B-2	P-10 ^H		A-1
102	RECEPTION		CON-2	B-1	P-4		A-2
103	OFFICE	C-1	B-1	P-8			A-2
104	OFFICE	C-1	B-1	P-8			A-2
105	OFFICE	C-1	B-1	P-8			A-2
106	TEACHER'S LOUNGE/WORKROOM	C-1	B-1	P-8			A-2
107	STORAGE	CON-1	B-1	P-6			A-2
108	TOILET	CON-1	B-1	P-5		L-6	A-2
109	TOILET	CON-1	B-1	P-5		L-6	A-2
110	FIRST AID	CON-1	B-1	P-8		L-6	A-2
111	CORRIDOR	CON-2	B-2	P-2 ^H	P-10 ^J		A-1
112	GENERAL LAB	CON-1	B-1	P-6	P-1 ^J	P-4	L-2
113	OFFICE	CON-1	B-1	P-8			A-2
114	STORAGE	CON-1	B-1	P-6			A-2
115	MECH/ELECTRICAL	CON-1	B-1	P-6		P-4	
116	STORAGE	CON-1	B-1	P-6			A-2
117	OFFICE	CON-1	B-1	P-8			A-2
118	FOOD SCIENCE LAB	CON-1	B-1	P-6	P-1 ^J	P-4	PT-3 ^G
119	STORAGE	CON-1	B-1	P-6			A-2
120	STORAGE	CON-1	B-1	P-6			A-2
121	OFFICE	CON-1	B-1	P-8			A-2
122	VET & ANIMAL SCIENCE LAB	CON-1	B-1	P-6	P-1 ^J	P-4	L-2
123	CLASSROOM	CON-2	B-1	P-3			L-4
124	STORAGE	CON-1	B-1	P-6			A-2
125	AG SCIENCE LAB	CON-1	B-1	P-6	P-1 ^J	P-4	L-2
126	STORAGE	CON-1	B-1	P-6			A-2
127	OFFICE	CON-1	B-1	P-8			A-2
128	WOMEN	CON-1	B-3	P-3 ^D	PT-1 ^E		A-1
129	MEN	CON-1	B-3	P-3 ^D	PT-1 ^E		A-1
130	CORRIDOR	CON-2	B-2	P-2 ^H	P-10 ^J		A-1
131	AUDITORIUM	CON-1					P-4
132	STORAGE	CON-1	B-1	P-6			P-4
133	LIVESTOCK TRAINING AREA	CON-1					P-4

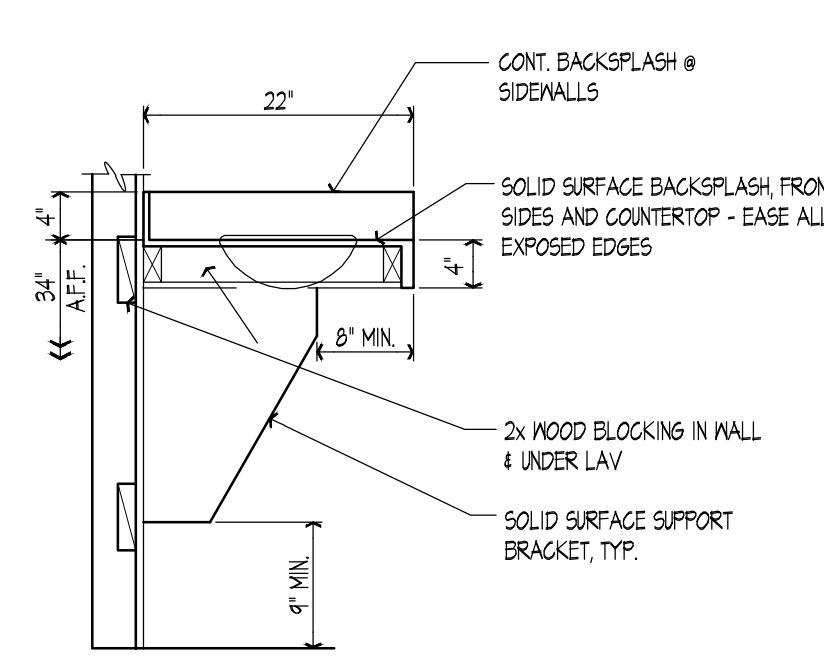
FINISH SPECIFICATIONS	
FLOORS:	WALLS:
C-1 Mannington Commercial Carpet Style "Cross Talk" Modulo - Color 85407 Data Spike, Horizontal Brick, Ashlar installation	P-1 Sherwin-Williams #SW7064 Iron Ore P-2 Sherwin-Williams #SW7006 Extra White P-3 Sherwin-Williams #SW6141 Alcot Gray P-4 Sherwin-Williams #SW6208 Oyster Bay P-5 Sherwin-Williams #SW6094 Interface Tan P-6 Sherwin-Williams #SW7632 Modern Gray P-7 Sherwin-Williams #SW7001 Lasso Dragon P-8 Sherwin-Williams #SW6015 Skyline Steel P-9 Sherwin-Williams #SW7006 Extra White (dry-fall @ exposed steel) P-10 ScuffMaster "Arson Design" custom color
CON-1 Sealed Concrete with Tremco CT Densifier Series 624	PT-1 America Ocean "Color Slag - Wall", Color - Matte Stable 0052, 8" x 24", Horizontal Stacked Pattern, Field tile
CON-2 Polished Concrete Level 2 - Honed Glass B - Fine Aggregate (Salt & Pepper) with Prosox Lithium Silicate Hardener/Densifier and Consolidant LS6449 polished-in sealer	PT-2 America Ocean "Color Slag - Wall", Color - Stable 0055 (glass), 4" x 16", Running Bond Pattern, accent row
BASE:	PT-3 America Ocean "Color Slag - Wall", Color - Ice White 0025 (glass), 3" x 6", Running Bond Pattern in Food Science Lab 118 backplash
B-1 Mannington Vinyl Wall Base 4" Vinyl Cove Base - Color 523 Black/Brown	
B-2 Mannington Vinyl Wall Base 6" Vinyl Cove Base - Color 523 Black/Brown	
B-3 Schluter-systems Schluter-DILEX-AHKA cove, clear anodized aluminum (used only where walls have tile manscoting)	
CEILING:	CABINETS & COUNTERTOPS:
A-1 Armstrong "Tine Flavored" #1754, Square Lay-in, 24" x 24" x 7/8", color White (WH) with Preclude XL 1516" Exposed Tee grid system, color White (WH)	L-1 Formica #8314-56 Neo Cloud L-2 Wilsonart #4441-38 Raw Cotton L-3 Wilsonart #4443-38 Classic Linen L-4 Wilsonart #4410-60 Nickel IV L-5 Wilsonart #5881-NT Millennium Oak L-6 Wilsonart #1284-58 Lime Stone L-7 Wilsonart #5101-50 Rustic Bronze
A-2 Armstrong "Tine Flavored" #1728, Square Lay-in, 24" x 24" x 5/8", White (WH) tiles with White grid	L-8 Wilsonart Solid Surface #1005 Paris Fog

NOTES:

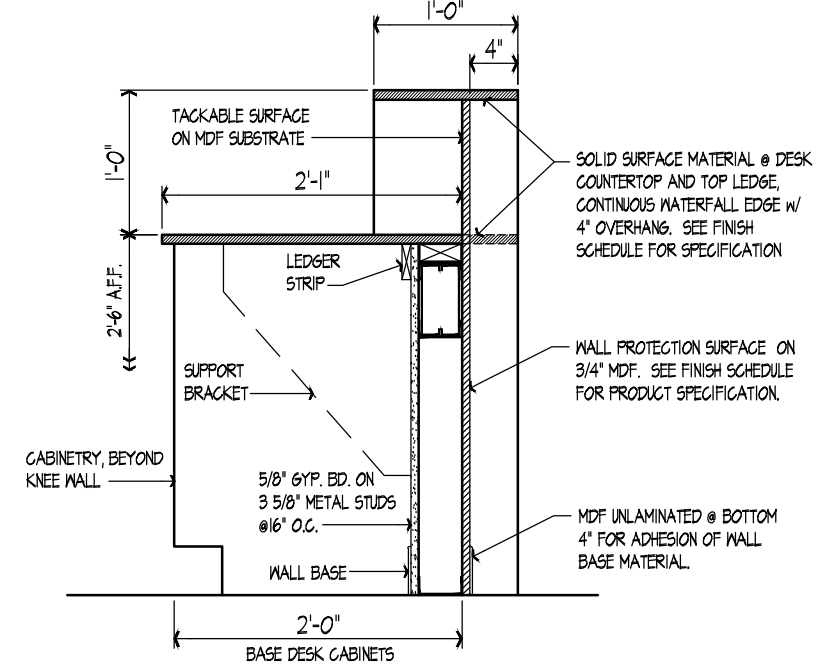
A) All interior plastic laminated window stools to be finished with plastic laminate Finish L-1.
 B) All interior hollow metal door frames to be painted with Finish P-1, Akzo Semi-Gloss.
 C) All interior wood doors to be manufacturer pre-finished glass-impregnated Oak with walnut finish.
 D) Painted finish above the wainscot, from 6'-0" o.f.f. to top of wall.
 E) Porcelain tile wainscot to 6'-0" o.f.f. at walls of toilet rooms, Schluter "DILEX" aluminum cove trim at bottom edge, and Schluter "JOLLY" straight trim at top. See detail E/A-8 for wall tile pattern.
 G) Wall tile backplash above countertops at Food Science Lab 122. Schluter "JOLLY" at exposed ends.
 H) Latex Eggshell Finish paint above, from 6'-0" o.f.f. to top of wall.
 I) Lab side walls of the Office and Storage rooms to be painted with accent color in Latex Semi-Gloss.
 J) Front surface of reception counter to be plastic laminate P-1.



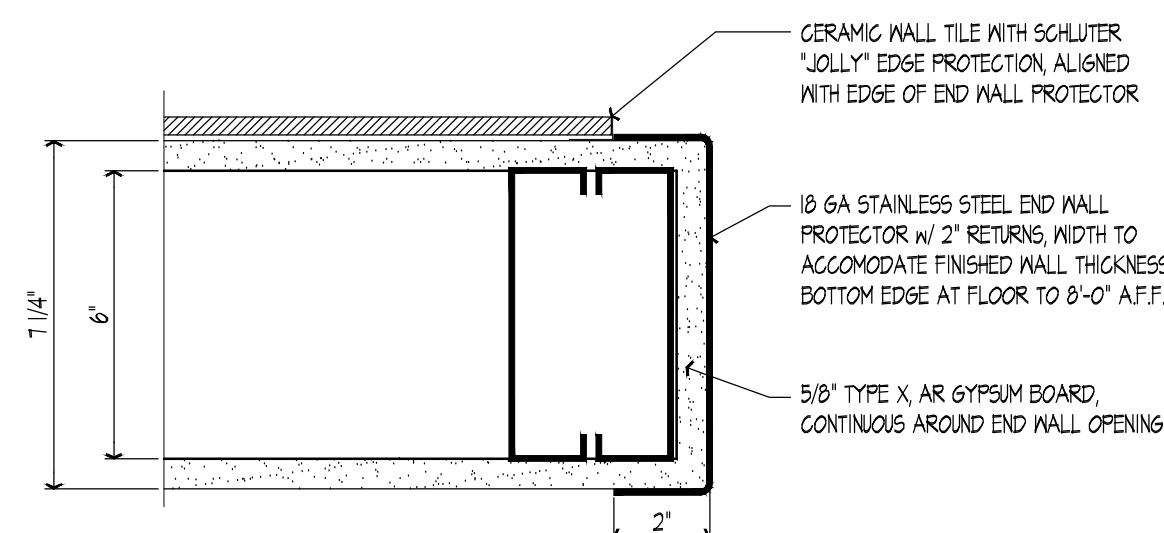
TYPICAL LAMINATE CABINETY
SCALE: 3/4"=1'-0"



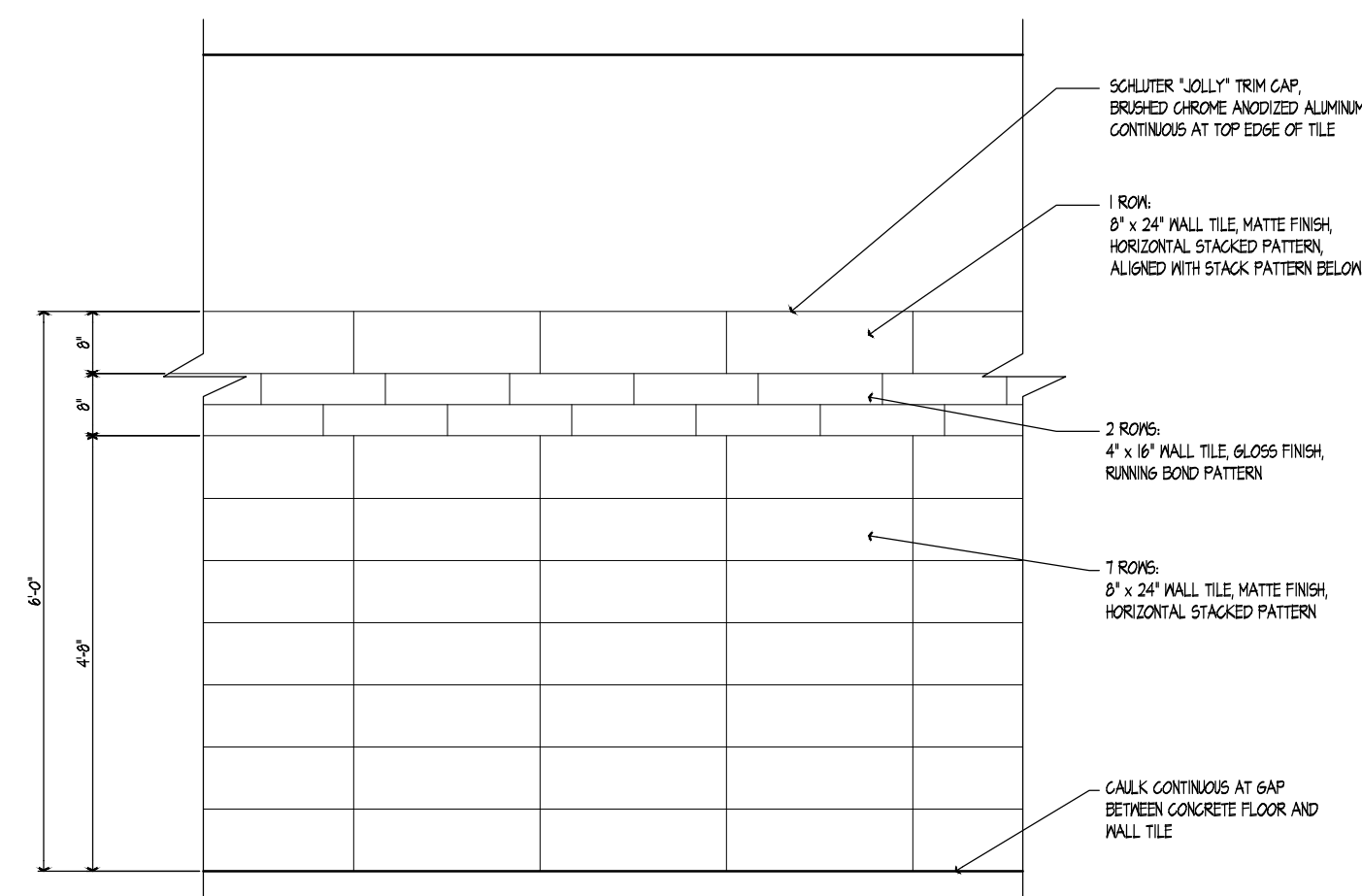
LAVATORY SECTION
SCALE: 3/4"=1'-0"



RECEPTION COUNTER SECTION
SCALE: 3/4"=1'-0"



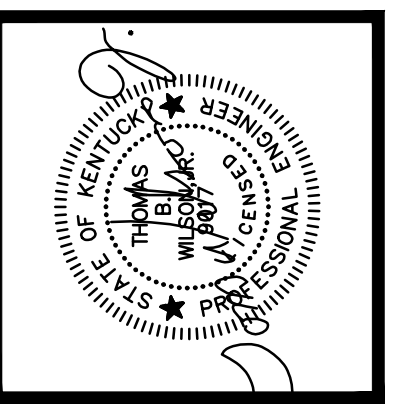
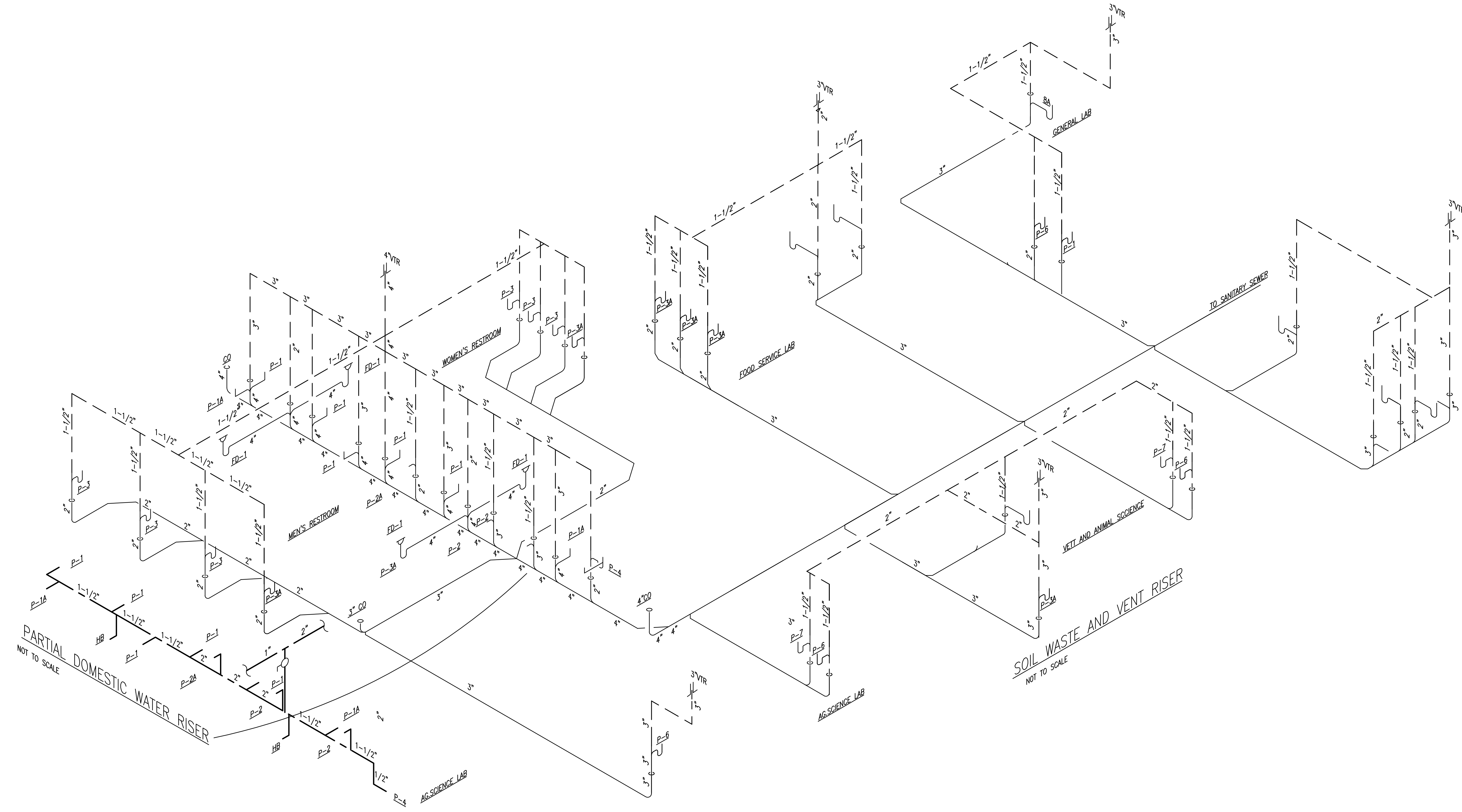
END WALL PROTECTION DETAIL
SCALE: 3/4"=1'-0"



RESTROOM WALL TILE DETAIL
SCALE: 1/2"=1'-0"

PLUMBING RISER DIAGRAM

SCALE: NTS



PLUMBING RISERS

The Seed Academy
 Lake Cumberland Regional AgriTech Center
 Russell Springs, Kentucky

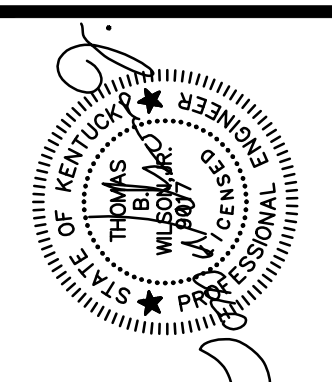
DATE	REVISION	BY

PROJECT NO. 2018-34
 DESIGNED BY TBM
 DRAWN BY TBM
 CHECKED BY TBM
 REVIEWED BY TBM
 DATE JANUARY 2024
 SCALE AS NOTED

msc
OF KENTUCKY, INC.
 Engineers
 Architects
 Planners
 Phone: (859)223-5884
 Fax: (859)223-2807
 www.mscinc.com

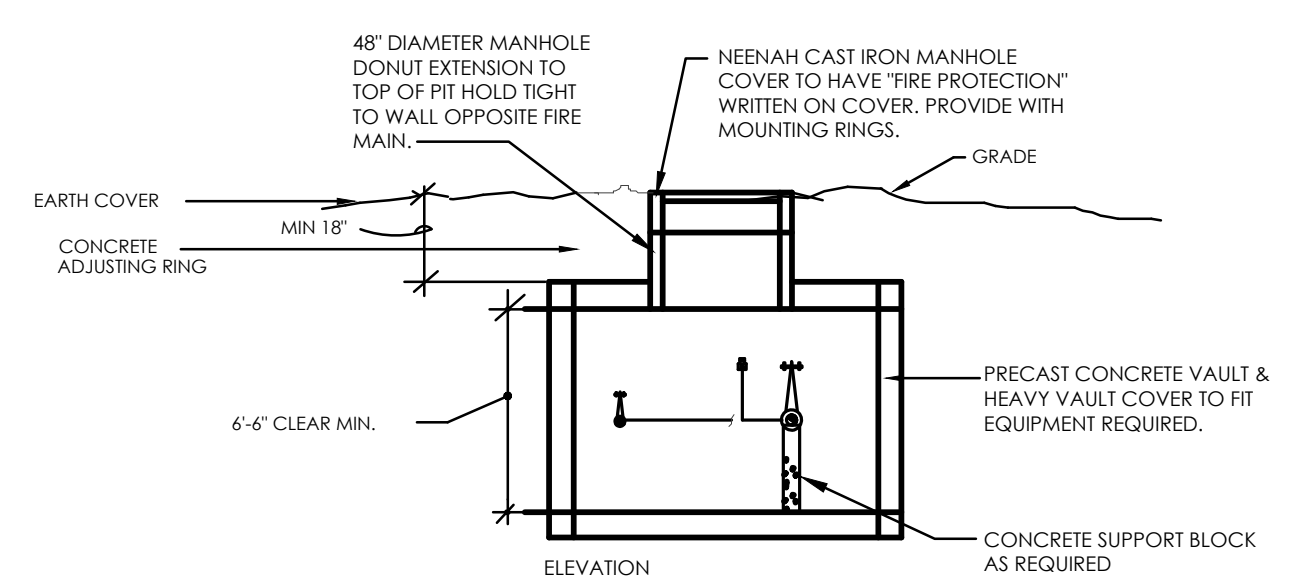


AFA ENGINEERING, LLC
 COMMERCIAL, TRADING, ENGINEERING
 PLUMBING, MECHANICAL, ELECTRICAL
 624 WELLINGTON WAY
 LEXINGTON, KY 40503

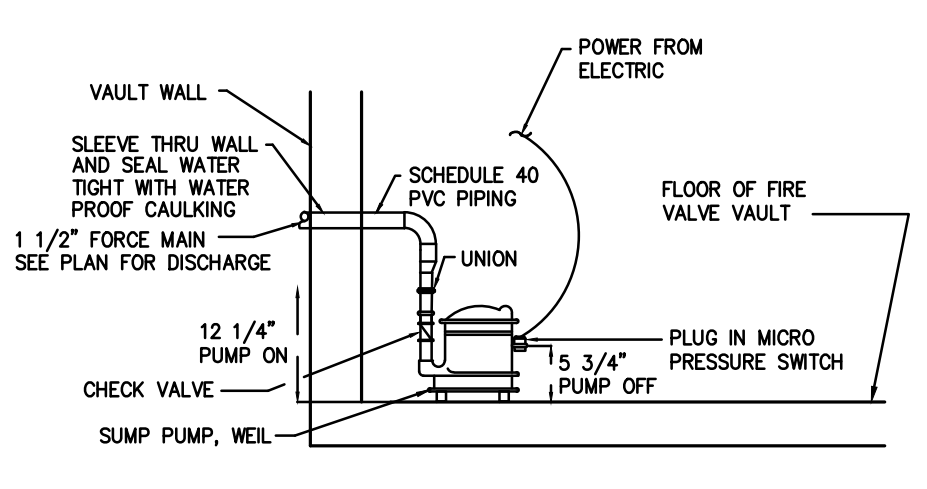


FIRE PROTECTION
DETAILS

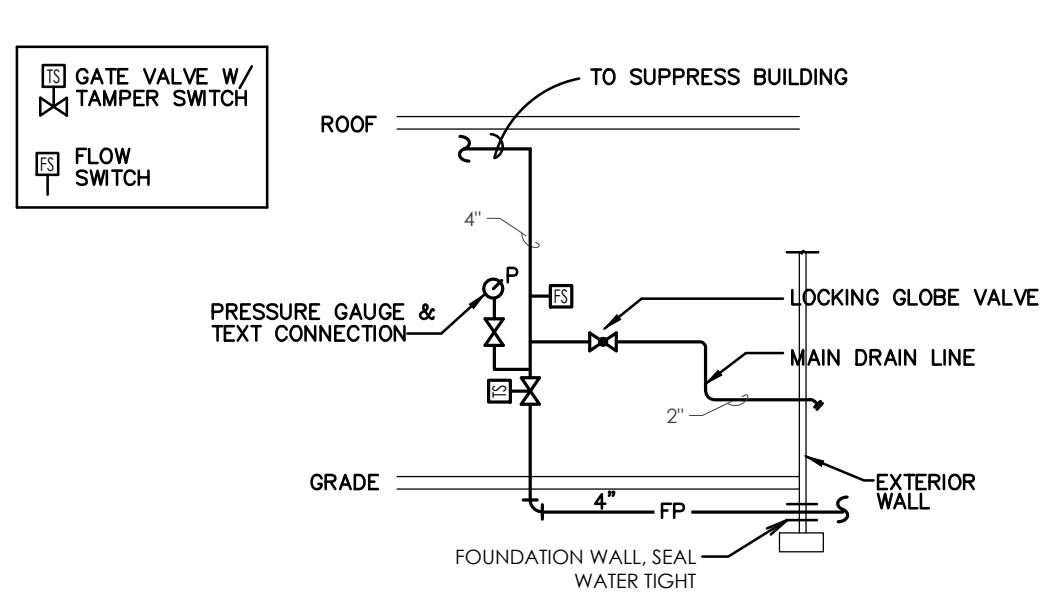
The Seed Academy
Lake Cumberland Regional AgriTech Center
Russell Springs, Kentucky



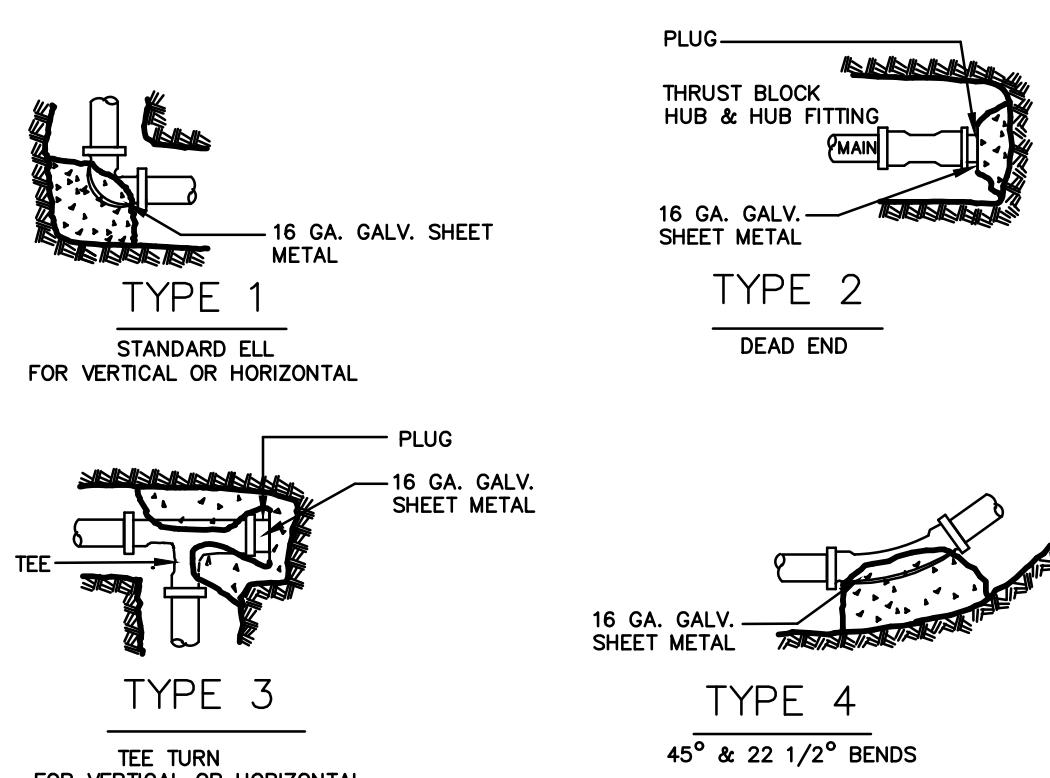
FIRE & DOMESTIC WATER VALVE & METER PIT ELEVATION
NO SCALE



SUMP PUMP DETAIL
NO SCALE



FIRE SUPPRESSION RISER WITH DRAIN LINE
NO SCALE

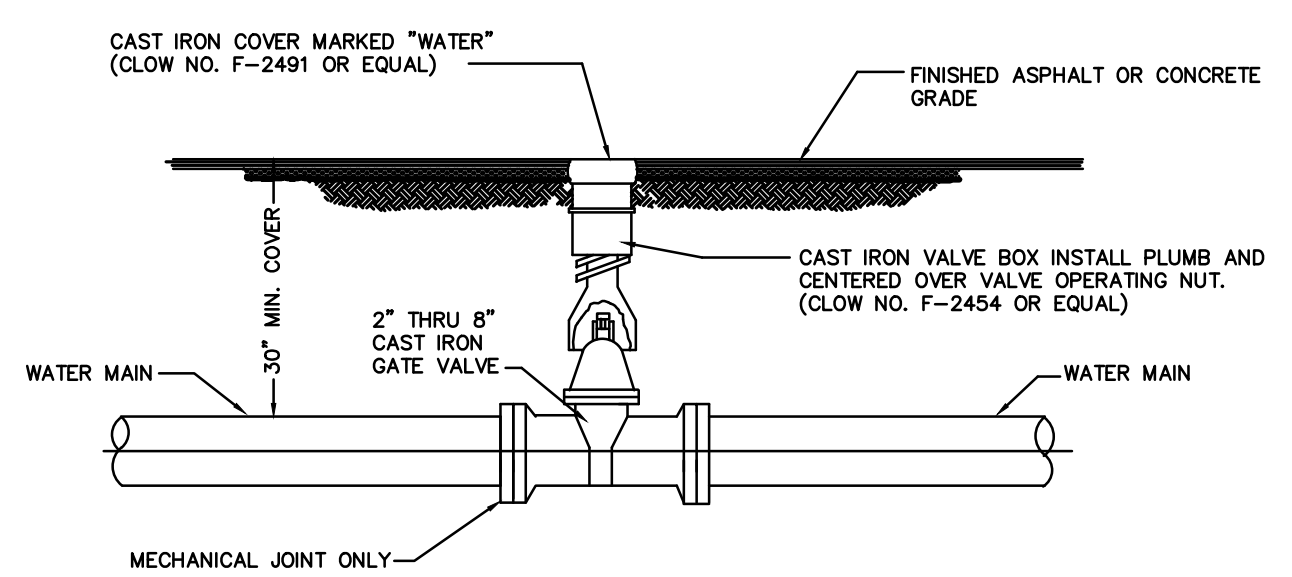


AREAS OF THRUST BLOCK REQUIRED

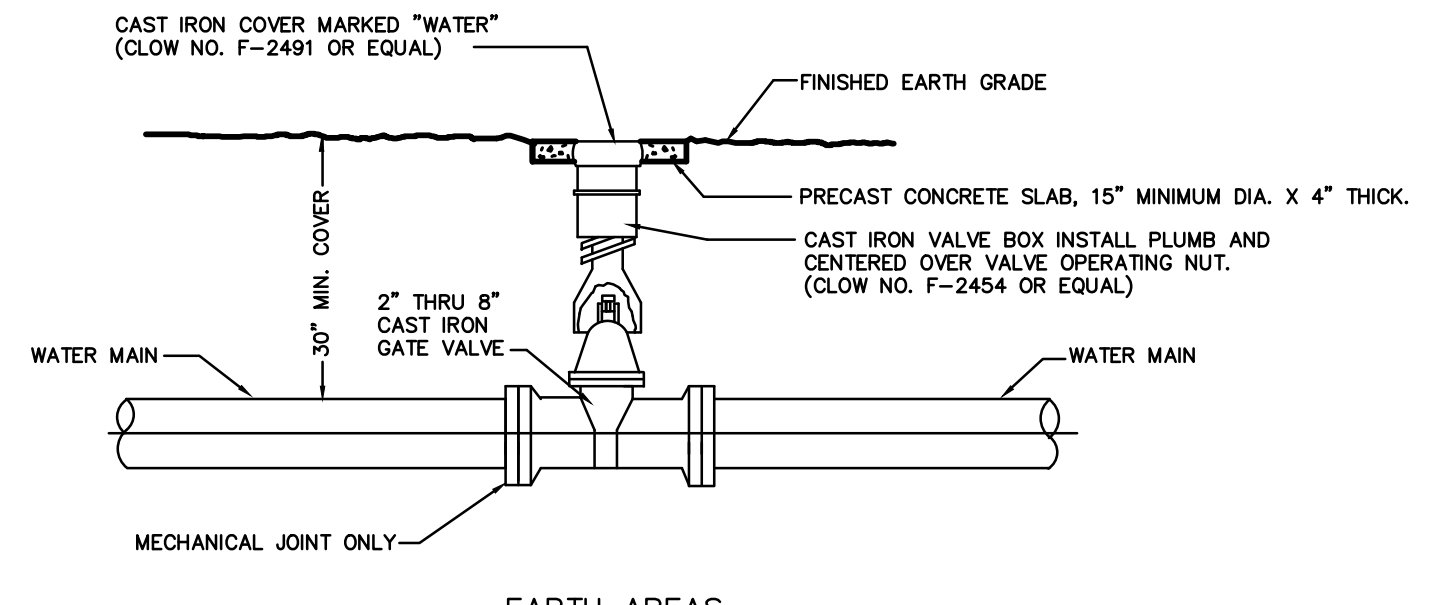
PIPE SIZE	TEE AND 45° BEND	90° BEND	45° BEND	22 1/2° BEND
3"	1 SQ. FT.	1 SQ. FT.	1 SQ. FT.	.5 SQ. FT.
4"	1 SQ. FT.	1.5 SQ. FT.	1 SQ. FT.	.5 SQ. FT.
6"	2 SQ. FT.	3 SQ. FT.	2 SQ. FT.	1 SQ. FT.
8"	4 SQ. FT.	5 SQ. FT.	3 SQ. FT.	1.5 SQ. FT.

THRUST BLOCK DETAILS FOR FIRE, DOMESTIC WATER MAINS
NO SCALE

NOTE: LENGTH, WIDTH & MINIMUM THICKNESS OF THRUST BLOCKS SHALL BE EQUAL TO THE DIAMETER OF THE PIPE FOR WHICH THEY ARE INSTALLED.

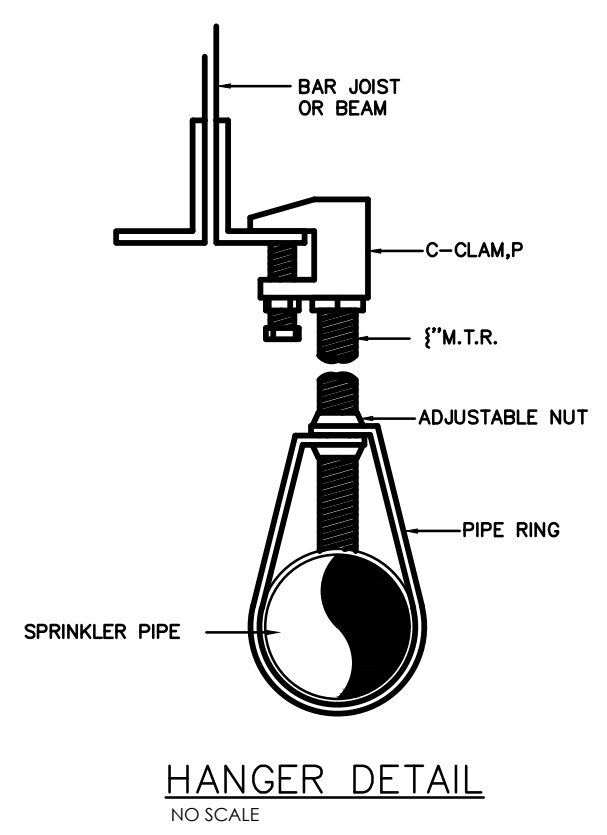


PAVED OR CONCRETE AREAS

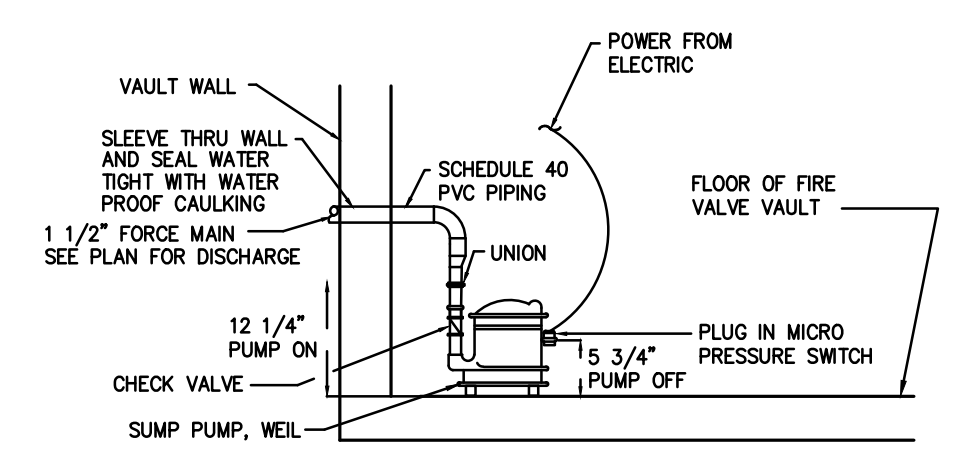


EARTH AREAS

GATE VALVE SETTING DETAIL
NO SCALE



HANGER DETAIL
NO SCALE



SUMP PUMP DETAIL
NO SCALE

FIRE PROTECTION LEGEND

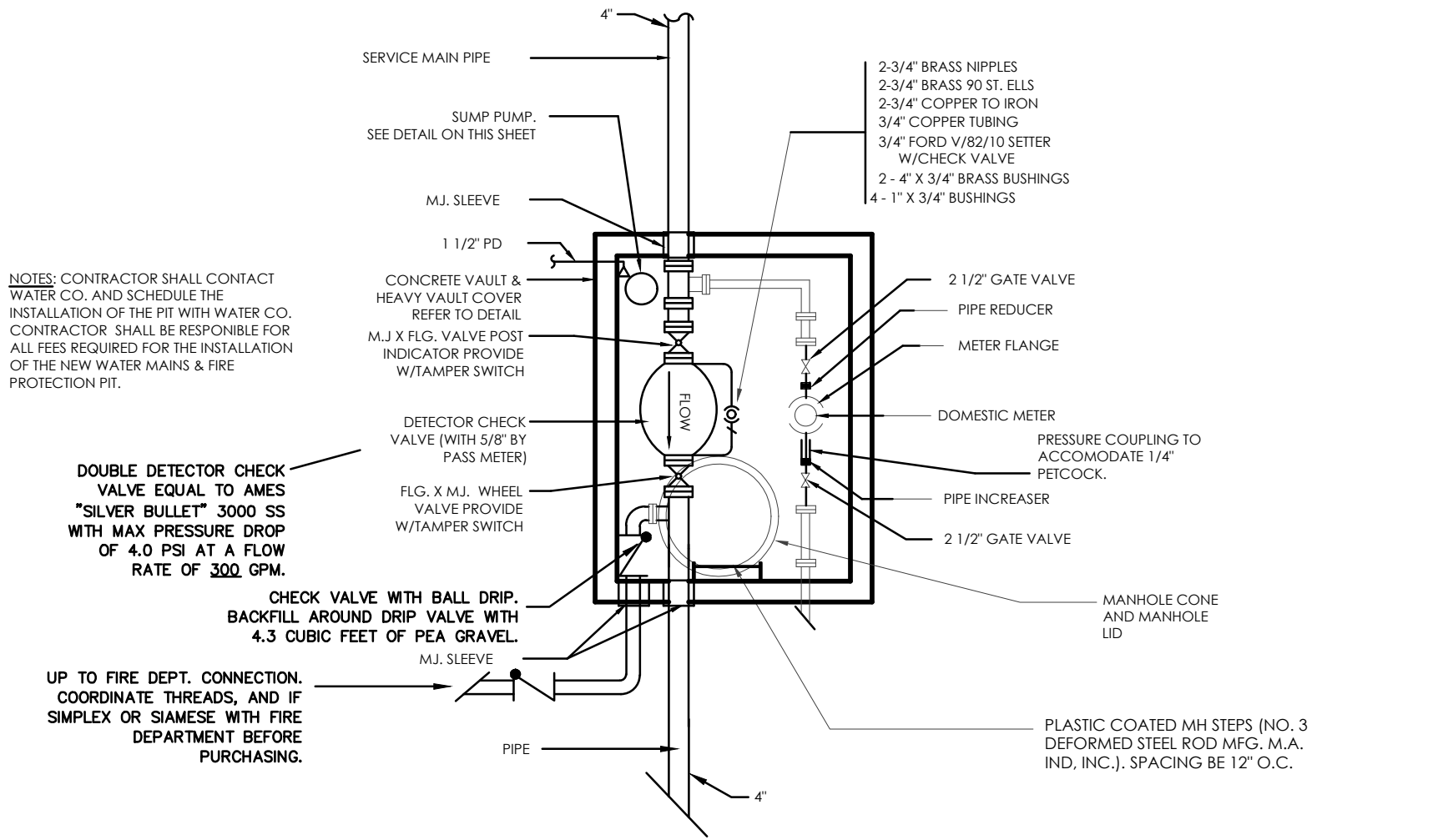
- NEW FIRE PROTECTION PIPE
- NEW DRY FIRE PROTECTION PIPE
- NEW AUXILIARY DRAIN
- LH LIGHT HAZARD ROOM OCCUPANCY
- OH-1 ORDINARY HAZARD 1 ROOM OCCUPANCY
- SEMI-RECESSED PENDANT SPRINKLER HEADS IN LAY-IN CEILING
- SEMI-RECESSED PENDANT SPRINKLER HEADS IN HARD CEILING
- UPRIGHT BRASS SPRINKLER HEADS
- DRY FP PIPE SYSTEM WITH UPRIGHT BRASS SPRINKLER HEADS

AVAILABLE WATERFLOW

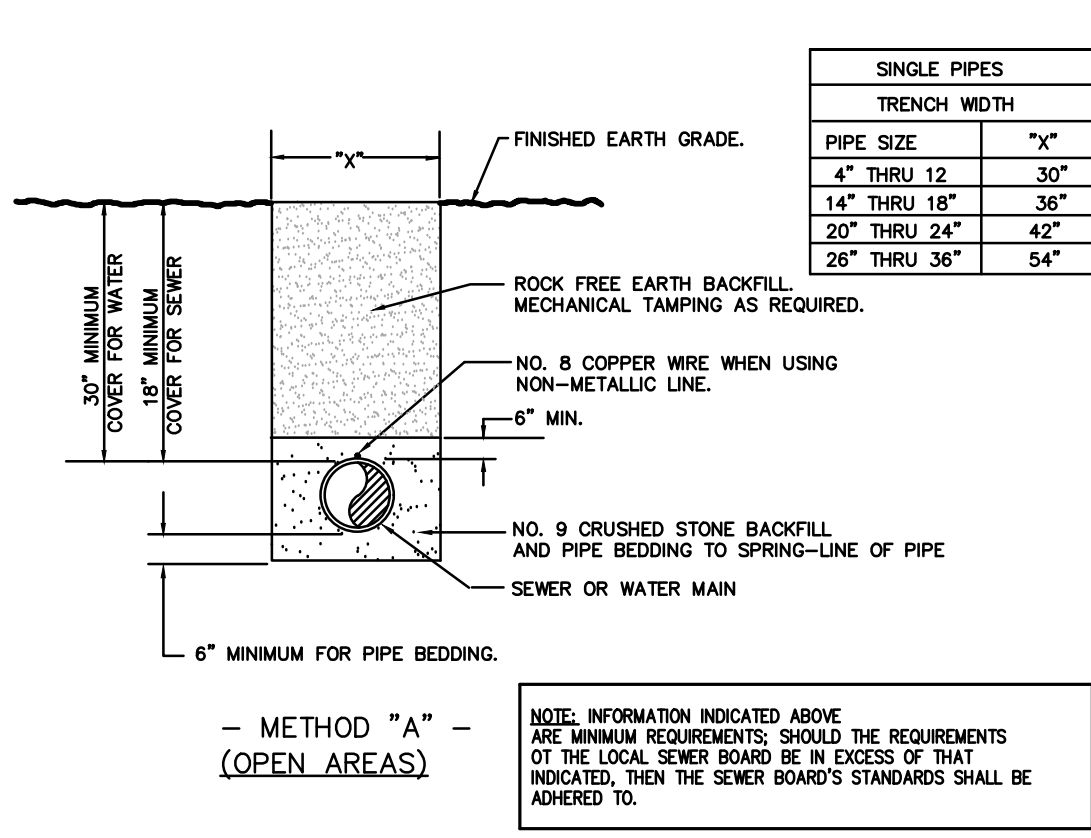
STATIC PSI: 97 PSIG
RESIDUAL PSI: 58 PSIG
FLOW: 1186 GPM
SOURCE OF WATER: ELEVATED TANK, 8" PVC LINE
SOURCE OF DATA: RUSSELL SPRINGS UTILITY (ALEX MCCOUEARY)
REQUIRED DURATION: 60 MINUTES
DATE OF TEST: 09/14/2022

DESIGN REQUIREMENTS:

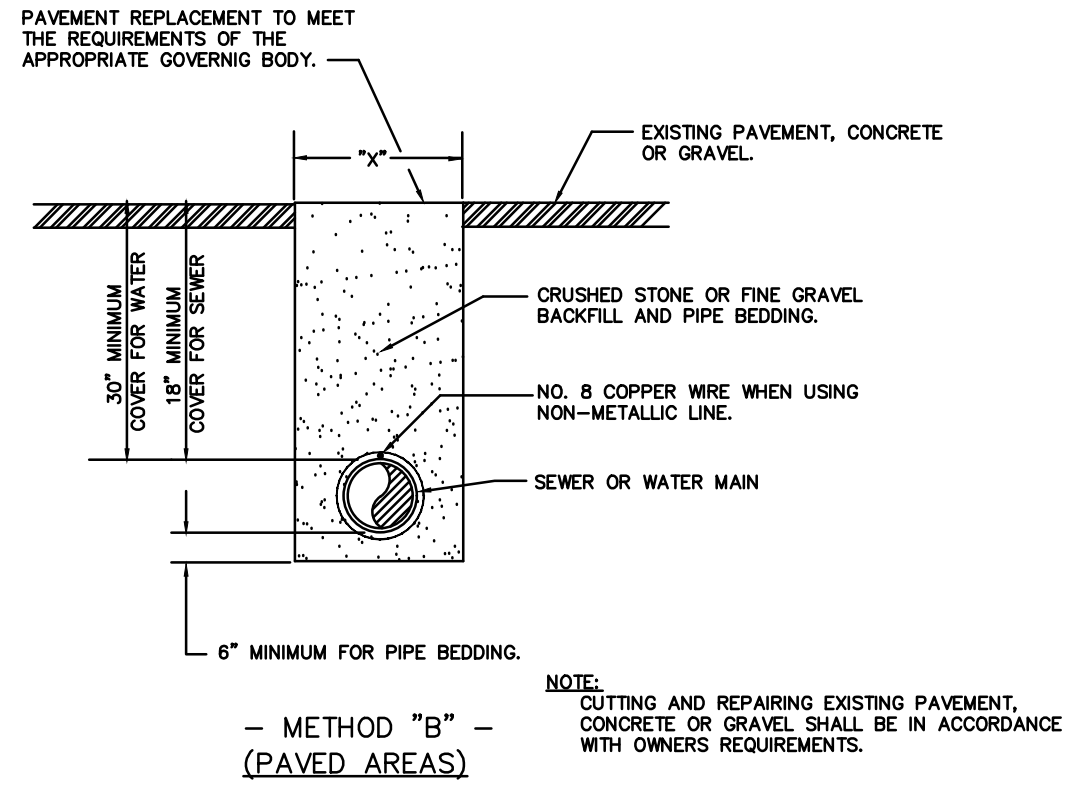
HAZARD: LIGHT HAZARD WITH SOME ORDINARY GROUP 1 HAZARD AREAS
OCCUPANCY OF BUILDING: BUSINESS TRAINING/SKILL DEVELOPMENT
GPM REQUIRED: 315 GPM
PRESSURE REQUIRED: 62 PSIG MIN.
(INCLUDE 5% SAFETY FACTOR IN HYDRAULIC CALCULATIONS)



FIRE & DOMESTIC WATER VALVE & METER PIT
NO SCALE



TRENCHING AND BACKFILLING
NO SCALE



METHOD "B" - (PAVED AREAS)

FIRE PROTECTION DETAILS
SCALE: NTS

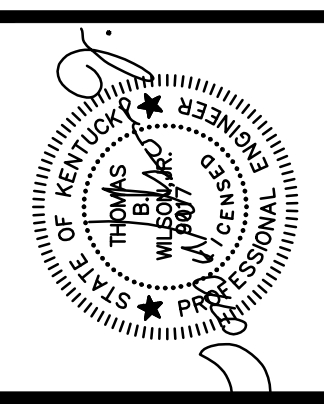
DATE	REVISION	BY

PROJECT NO. 2018-04
DESIGNED BY: TBM
DRAWN BY: TBM
CHECKED BY: TBM
REVIEWED BY: TBM
DATE: JANUARY, 2024
SCALE: AS NOTED

Engineers
Architects
Planners
msc
OF KENTUCKY, INC.
624 Wellington Way
Lexington, KY 40503
Phone: (859) 223-5684
Fax: (859) 223-2807
www.mscinc.com

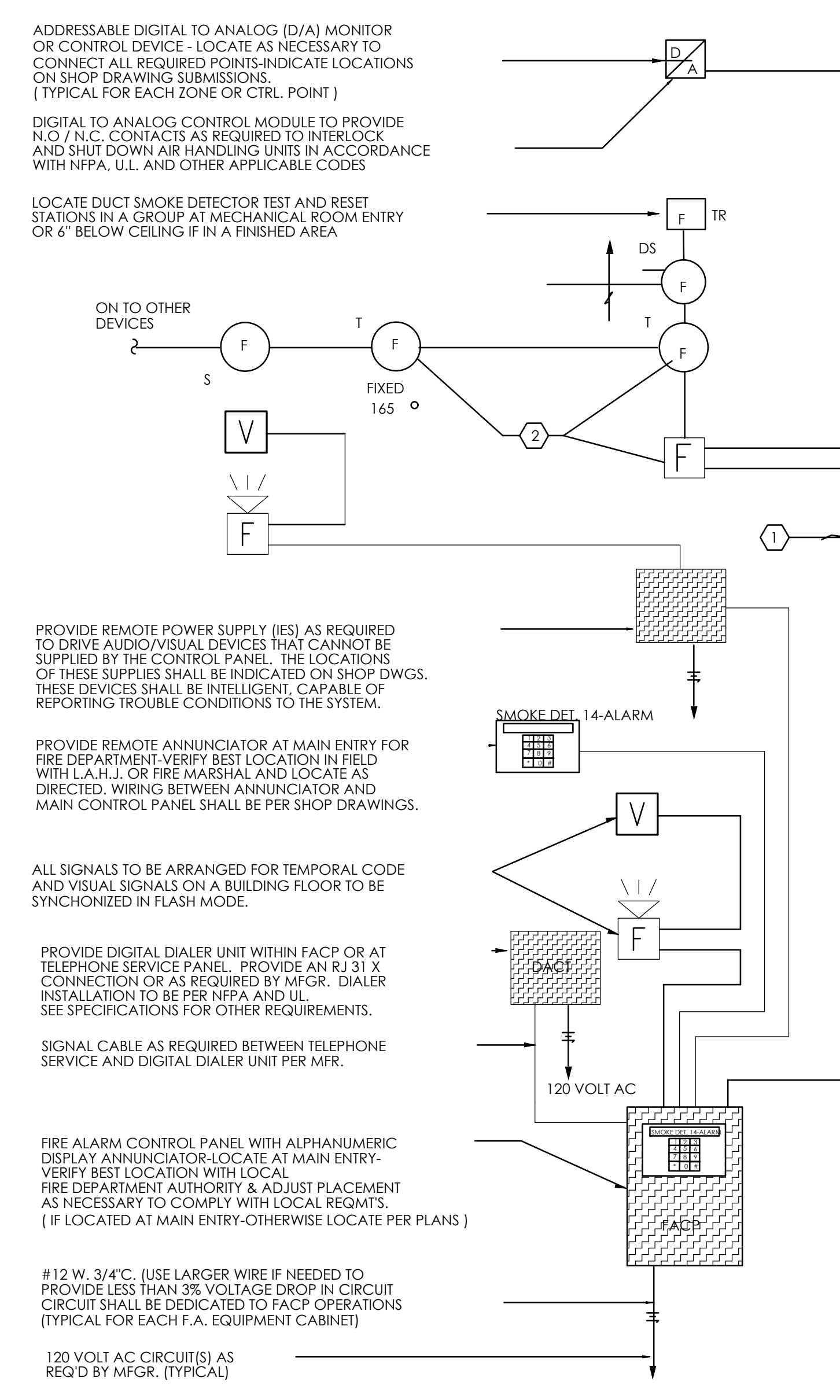


AFA ENGINEERING, LLC
624 WELLINGTON WAY
LEXINGTON, KENTUCKY 40504
PHONE: (859) 223-5684



FIRE ALARM DETAILS

The Seed Academy
Lake Cumberland Regional AgriTech Center
Russell Springs, Kentucky



FIRE ALARM SYSTEM SCHEMATIC RISER DIAGRAM

ADDRESSABLE DIGITAL TO ANALOG (D/A) MONITOR OR CONTROL DEVICE. LOCATE AS NECESSARY TO CONNECT ALL REQUIRED POINTS INDICATE LOCATIONS ON SHOP DRAWING SUBMISSIONS. (TYPICAL FOR EACH ZONE OR CTRL. POINT)

DIGITAL TO ANALOG CONTROL MODULE TO PROVIDE N.O./N.C. CONTACTS AS REQUIRED TO INTERLOCK AND SHUT DOWN AIR HANDLING UNITS IN ACCORDANCE WITH NFPA, U.L. AND OTHER APPLICABLE CODES

LOCATE DUCT SMOKE DETECTOR TEST AND RESET STATIONS IN A GROUP AT MECHANICAL ROOM ENTRY OR 6" BELOW CEILING IF IN A FINISHED AREA

ON TO OTHER DEVICES

FIXED 165

PROVIDE REMOTE POWER SUPPLY (IES) AS REQUIRED TO DRIVE AUDIO/VISUAL DEVICES THAT CANNOT BE SUPPLIED BY THE CONTROL PANEL. THE LOCATIONS OF THESE SUPPLIES SHALL BE INDICATED ON SHOP DWGS. THESE DEVICES SHALL BE INTELLIGENT, CAPABLE OF REPORTING TROUBLE CONDITIONS TO THE SYSTEM.

PROVIDE REMOTE ANNUNCIATOR AT MAIN ENTRY FOR FIRE DEPARTMENT. VERIFY BEST LOCATION IN FIELD WITH L.A.H.J. OR FIRE MARSHAL AND LOCATE AS DIRECTED. WIRING BETWEEN ANNUNCIATOR AND MAIN CONTROL PANEL SHALL BE PER SHOP DRAWINGS.

ALL SIGNALS TO BE ARRANGED FOR TEMPORAL CODE AND VISUAL SIGNALS ON A BUILDING FLOOR TO BE SYNCHRONIZED IN FLASH MODE.

PROVIDE DIGITAL DIALER UNIT WITHIN FACP OR AT TELEPHONE SERVICE PANEL. PROVIDE AN RJ 31 X CONNECTION OR AS REQUIRED BY MFG. DIALER INSTALLATION TO BE PER NFPA AND U.L. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.

SIGNAL CABLE AS REQUIRED BETWEEN TELEPHONE SERVICE AND DIGITAL DIALER UNIT PER MFG.

FIRE ALARM CONTROL PANEL WITH ALPHANUMERIC DISPLAY ANNUNCIATOR-LOCATE AT MAIN ENTRY. VERIFY BEST LOCATION WITH LOCAL FIRE DEPARTMENT AUTHORITY & ADJUST PLACEMENT AS NECESSARY TO COMPLY WITH LOCAL REQMTS. (IF LOCATED AT MAIN ENTRY-OTHERWISE LOCATE PER PLANS)

#12 W. 3/4" C. (USE LARGER WIRE IF NEEDED TO PROVIDE LESS THAN 3% VOLTAGE DROP IN CIRCUIT CIRCUIT SHALL BE DEDICATED TO FACP OPERATIONS (TYPICAL FOR EACH F.A. EQUIPMENT CABINET))

120 VOLT AC CIRCUIT(S) AS REQ'D BY MFG. (TYPICAL)

FIRE ALARM SYSTEM TAGGED NOTES:

1. WIRING BETWEEN MULTIPLEX AND D/A ZONE MODULES TO BE #16 TWISTED SHIELDED PAIR. VERIFY EXACT WIRING REQUIREMENTS WITH MANUFACTURER PRIOR TO BID, AND INSTALL ACCORDING TO SHOP DRAWING REQUIREMENTS. IF VOLTAGE DROP WILL BE EXCESSIVE WITH #14 WIRE TO DEVICES, INCREASE WIRE SIZE TO MAINTAIN NO GREATER THAN 3% TOTAL DROP.
2. ZONE AND ANNUNCIATE ALL INDIVIDUAL FIRE ALARM DEVICES, AS WELL AS ALL AUXILIARY FUNCTIONS AT EACH ANNUNCIATOR.

ZONE AND ANNUNCIATE ALL INDIVIDUAL FIREALARM DEVICES, AS WELL AS ALL AUXILIARY FUNCTIONS AT EACH ANNUNCIATOR.

FIRE ALARM SYSTEM RISER DIAGRAM GENERAL NOTES:

- WIRE SIZING SELECTIONS FOR AUDIBLE/VISUAL UNITS SHALL BE CALCULATED AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- RISER DIAGRAM FOR FIRE ALARM SYSTEM IS FOR BID PURPOSES ONLY. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM MANUFACTURER, AND THAT HAVE BEEN APPROVED BY THE STATE FIRE MARSHAL'S OFFICE OR THE LOCAL AUTHORITY HAVING JURISDICTION, AS APPLICABLE.
- AUTOMATIC FIRE ALARM DETECTORS SHALL BE LOCATED SO AS TO PREVENT SHIELDING BY DUCTWORK, EQUIPMENT AND PIPING ON CEILING. SPACING BETWEEN DETECTORS SHALL BE IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS. IN ANY CASE, ADDITIONAL DETECTORS SHALL BE PROVIDED IF NEEDED TO INSURE COMPLETE COVERAGE OF THE INDICATED SPACE.
- END-OF-LINE-RESISTOR (IF REQUIRED BY MANUFACTURER) BOXES SHALL BE 4" SQUARE AND SHALL BE FLUSH-MOUNTED IN ALL FINISHED AREAS, WITH RED LABELED PLATE.
- ALL CONDUIT IN FIRE ALARM SYSTEM SHALL BE 3/4" SIZE EXCEPT AS OTHERWISE NOTED. PROVIDE LARGER IF REQUIRED TO MAINTAIN CONDUCTORS AT 40% MAXIMUM FILL.
- FIRE ALARM MANUAL STATIONS SHALL BE DOUBLE-ACTION TYPE, POSITIVE VISUAL INDICATION OF OPERATION, KEY RESET, ALL KEYS ALIKE.
- FIRE ALARM SIGNALING DEVICES SHALL BE SEMI-FLUSH TYPE AUDIBLE, WITH FLASHING LAMP MOUNTED ON SAME PLATE. SURFACE-MOUNTED UNITS MAY BE USED IN UNFINISHED AREAS.
- NO SMOKE DETECTORS SHALL BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN OR EXHAUST AIR OPENINGS, NOR CLOSER THAN 12" TO WALL/CEILING INTERSECTIONS.
- AVOID PLACEMENT OF HEAT DETECTORS CLOSE TO HEAT-PRODUCING EQUIPMENT WHERE RATE-OF-RISE WILL DEGRADE DETECTOR PERFORMANCE OR PRODUCE NUISANCE ALARMS. USE FIXED TEMPERATURE (165 DEG F TO 190 DEG F) DEVICES IN SUCH AREAS.
- THE SENSITIVITY OF SMOKE DETECTORS SHALL BE ADJUSTED FOR THE SERVICE DUTY IN THE AREA INDICATED, TO SUIT BUILDING OPERATIONAL CONDITIONS.
- VERIFY THAT THE FINAL ROOM NAME AND NUMBERING SCHEME USED FOR ENUNCIATOR LEGENDS IS IN ACCORD WITH THE ACTUAL ROOM NAMES AND NUMBERS FINALLY CHOSEN BY THE OWNER.
- ALL ENUNCIATOR LEGEND WORDING AND/OR ALPHANUMERIC DISPLAY LEGENDS SHALL BE APPROVED BY THE ENGINEER, OWNER AND LOCAL FIRE DEPARTMENT AUTHORITY, AS APPLICABLE. SUBMIT THIS INFORMATION WITH SHOP DRAWINGS.
- TO PROVIDE FOR MAXIMUM FLEXIBILITY IN INITIAL SYSTEM SET-UP, ZONE ARRANGEMENTS, OPERATOR CODE PATTERNS, ETC., THE SYSTEM SUPPLIER SHALL PROVIDE INITIAL PROGRAMMING OF SYSTEM IN ACCORD WITH THE OWNER'S DIRECTION ON SYSTEM CONFIGURATION. THE SUPPLIER SHALL ALSO ANTICIPATE THE NEED FOR SYSTEM REPROGRAMMING IN HIS BID TO MODIFY THE SYSTEM AS NEEDED TO SUIT CHANGING REQUIREMENTS UP TO THE TIME OF SUBSTANTIAL COMPLETION WITHOUT ADDITIONAL COST TO THE OWNER.
- THE ENTIRE FIRE ALARM SYSTEM INSTALLATION SHALL BE IN FULL ACCORD WITH THE CURRENT EDITION OF THE AMERICANS WITH DISABILITIES ACT AND ALL OTHER APPLICABLE CODES.
- PROVIDE ONE YEAR OF FIRE ALARM SYSTEM MONITORING BY A U.L. APPROVED CENTRAL MONITORING SERVICE.
- PROVIDE LIGHTNING ARRESTORS ON ALL EXTERIOR FIRE ALARM SIGNAL CIRCUITS.
- FIRE ALARM SUPPLIER SHALL PREPARE PLANS, SPECS., & SHOP DRAWINGS TO MEET REQUIRED LIFE SAFETY CODES & SUBMIT TO AUTHORITY HAVING JURISDICTION FOR APPROVAL BEFORE BEGINNING ANY ROUGH-IN WORK OF THE FIRE ALARM SYSTEM.
- FIRE ALARM SUPPLIER SHALL SUBMIT WITH CAD FILE "APPROVED" FIRE ALARM SUBMITTAL, ALONG INDICATING LOCATIONS & WIRING CONNECTIONS TO ALL COMPONENTS OF THE SYSTEM, INCLUDING SPRINKLER RISER MONITORING DEVICES. FIRE ALARM VENDOR SHALL PROVIDE CERTIFICATION OF THE COMPLETED, INSTALLED SYSTEM BY A "CERTIFIED FIRE ALARM INSPECTOR" LICENSED BY THE COMMON WEALTH OF KENTUCKY.

FIRE ALARM DETAILS
NOT TO SCALE



mse
OF KENTUCKY, INC.
Engineers
Architects
Planners

624 Wellington Way
Lexington, KY 40503
Phone: (859) 223-5684
Fax: (859) 223-2607
www.msepa.com

PROJECT NO.	DATE	DESIGNED BY	CHECKED BY	REVIEWED BY	SCALE
20178-94		TBM			
DESIGNED BY	DATE	CHECKED BY	REVIEWED BY	SCALE	AS NOTED
DRAWN BY	JANUARY 2024				