

BURLINGTON COUNTY AGRICULTURAL CENTER

2026 IMPROVEMENTS

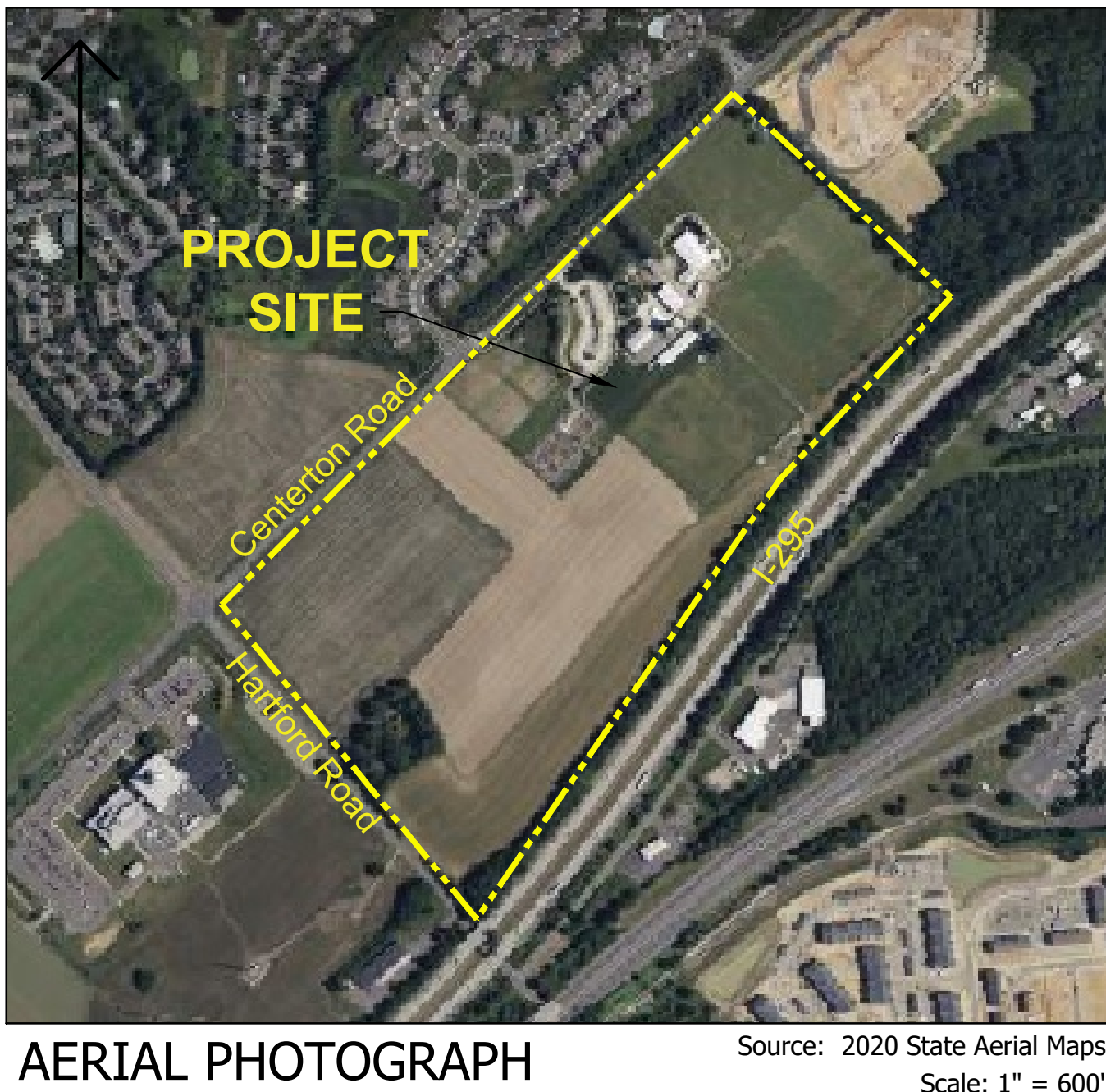
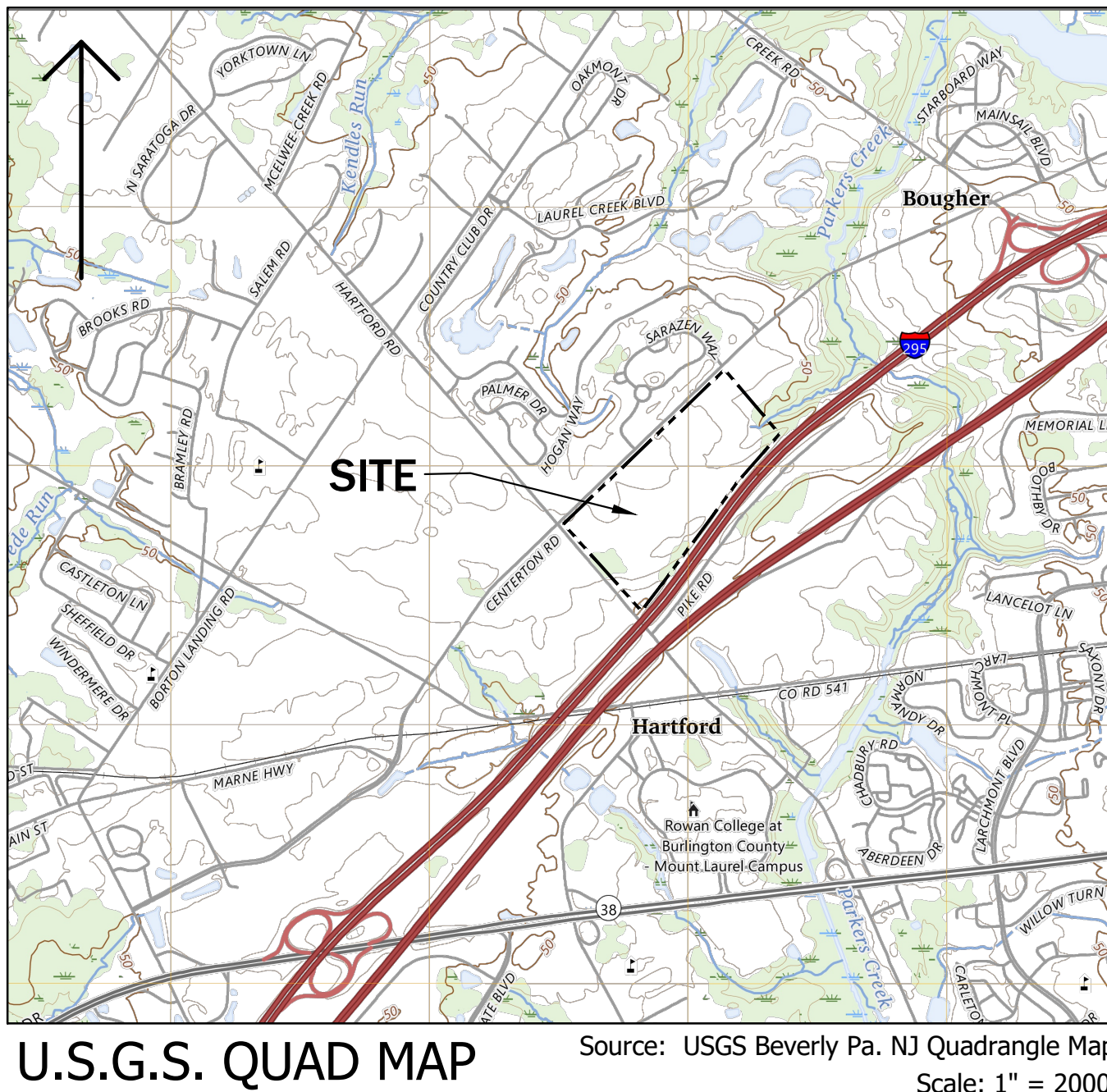
BURLINGTON COUNTY CONTRACT #CPU-26-0051
500 CENTERTON ROAD, MOORESTOWN TOWNSHIP
BURLINGTON COUNTY, NEW JERSEY

BURLINGTON COUNTY DEPARTMENT OF RESOURCE CONSERVATION

Date: June 30, 2026

BURLINGTON COUNTY BOARD OF COMMISSIONERS

Dr. Felicia Hopson, Director
Allison Eckel, Deputy Director
Randy Brolo
Tyler J. Burrell
Tom Pullion



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COUNTY OF BURLINGTON

EVE A. CULLINAN
BURLINGTON COUNTY ADMINISTRATOR

Date

TAYLOR DESIGN GROUP, INC.

SCOTT D. TAYLOR LLA, AICP, PP
Licensed Landscape Architect NJ-21A5000068100

Date

CONSTRUCTION COMPANY

Date



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Mount Laurel, NJ 08054

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tdgplanning.com

Planning
Landscape Architecture
Municipal Consulting
Parks and Recreation



Bowman

457 OAKSHADE RD., SHAMONG, NJ 08088
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475 WHITE HORSE PIKE
COLLINGSWOOD, NEW JERSEY 08107
PHONE: (856)-854-0580 FAX: (856)-854-0993 WEB: www.oskdp.com

9616 SECOND AVENUE, SUITE 201
STONE HARBOR, NEW JERSEY 08247
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1. This map and survey were prepared from information furnished and/or obtained together with evidence found on the ground and is subject to such state of fact that an accurate file search may reveal, including any encumbrances, restrictions, rights of way, or grants.
2. Reference: Outbound information is approximate. Property being known as Block 8801, Lot 2, & 3, Lot 3.01 on Township of Moorestown Tax map sheet 8801.
3. Reference: Topographic survey information from a plan entitled "Civil, Existing Conditions Plan, prepared by CDM Camp Dresser & McKee Inc. signed by dated 10.8.07."
4. Topographic survey information was supplemented based on a plan entitled "Partial Topographic Survey," prepared by Banc3, INC., P.C. Consulting Engineers. Signed by Robert E. Lee, PLS. Dated 12.25.16, and by a partial topographic survey provided by CME Associates, Dated 01.04.26.
5. Topographic survey information shown outside the extents of the proposed limit of work is based on Burlington County Topographic information, furnished by Burlington County on or about 8.26.2016.

MOORESTOWN TWP, BURLINGTON COUNTY, NEW JERSEY

D-1	
SCALE: 1"=20'-0"	DRAWN BY: JM
DATE: 06.30.2026	JOB NO:

- Remove & replace wire fencing, etc. as necessary to accommodate new sanitary sewer lateral. Restore pasture to match existing conditions.

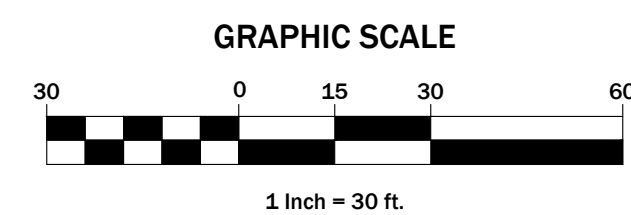
INV. IN=63.83 (SE)
INV. O=63.83 (SE)

GRAPHIC SCALE



1 Inch = 30 ft.

TOTAL LIMIT OF DISTURBANCE = 0.25 ACRES

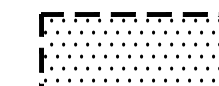


- NOTES**
1. INDIVIDUAL LOT ENTRANCE AND EGRESS- AFTER INTERIOR ROADWAYS ARE PAVED, INDIVIDUAL LOT INGRESS/EGRESS POINTS MAY REQUIRE A STABILIZED CONSTRUCTION ENTRANCE AND EGRESS TO A STONE OR GRAVEL SURFACE. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE A MINIMUM OF 10 FEET WIDE. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE EQUAL TO LOT ENTRANCE WIDTH AND SHALL BE THE WIDEST OF TEN FEET IN LENGTH.
 2. THE WASHING - IF SPACE IS LIMITED, WHEEL TRILES MAY BE WASHED WITH CLEAN WATER TO REMOVE A PAVED SURFACE. IF SPACE IS LIMITED, WHEEL TRILES SHOULD BE WASHED WITH WATER WILL NOT FLOW ON PAVED ROADWAYS OR INTO UNPROTECTED STORM DRAINAGE SYSTEMS.
 3. WHEN THE CONSTRUCTION ACCESS ENDS TO A MAJOR ROADWAY, A PAVED TRANSITION AREA SHALL BE INSTALLED. THE TRANSITION AREA SHALL BE LOCATED SUCH THAT WHEN PRESENT LOOSE STONES FROM BEING TRANSPORTED OUT TO THE ROADWAY BY HEAVY EQUIPMENT ENTERING OR LEAVING THE SITE.
 4. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR SPREADING OF LOOSE STONE OR GRAVEL. THIS MAY REQUIRE PROTECTING TOP DRESSING WITH AN ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND. REPAIR AND RINSE/ CLEANING OF ANY MEASURES USED TO TRAP SEDIMENT, ALL SEDIMENT SLOTTED, DROPPED, WASHED, OR TRACKED OUTSIDE ROADWAY OR PUBLIC OR PRIVATELY OWNED OR OTHER INTERFEROUS SURFACES MUST BE REMOVED IMMEDIATELY.
 5. WHERE ACCUMULATION OF DUST/SEDIMENT IS IMMEDIATELY CLEANED OR REMOVED BY CONVENTIONAL METHODS, A PAVED BROOM OR STREET SWEEPER WILL BE REQUIRED TO REMOVE OR TRAVEL ALONG THE SURFACE OF THE SURFACES. ALL OTHER ACCESS POINTS WHICH ARE NOT STABILIZED SHALL BE CLOTTED OFF.

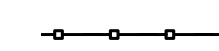
SEQUENCE OF CONSTRUCTION

1. INSTALL SILT FENCING AND TREE PROTECTION FENCING WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. (1 WEEK)
2. DEMOLITION OF EXISTING DRIVEWAY (1 WEEK)
3. CONSTRUCTION OF ASPHALT AND GRAVEL DRIVEWAY (1 WEEK)
4. PERMANENTLY STABILIZE ALL DISTURBED AREAS. (1 WEEK)
5. REMOVE SEDIMENT CONTROL DEVICES (1 DAY)

LEGEND



PROPOSED LIMIT OF DISTURBANCE



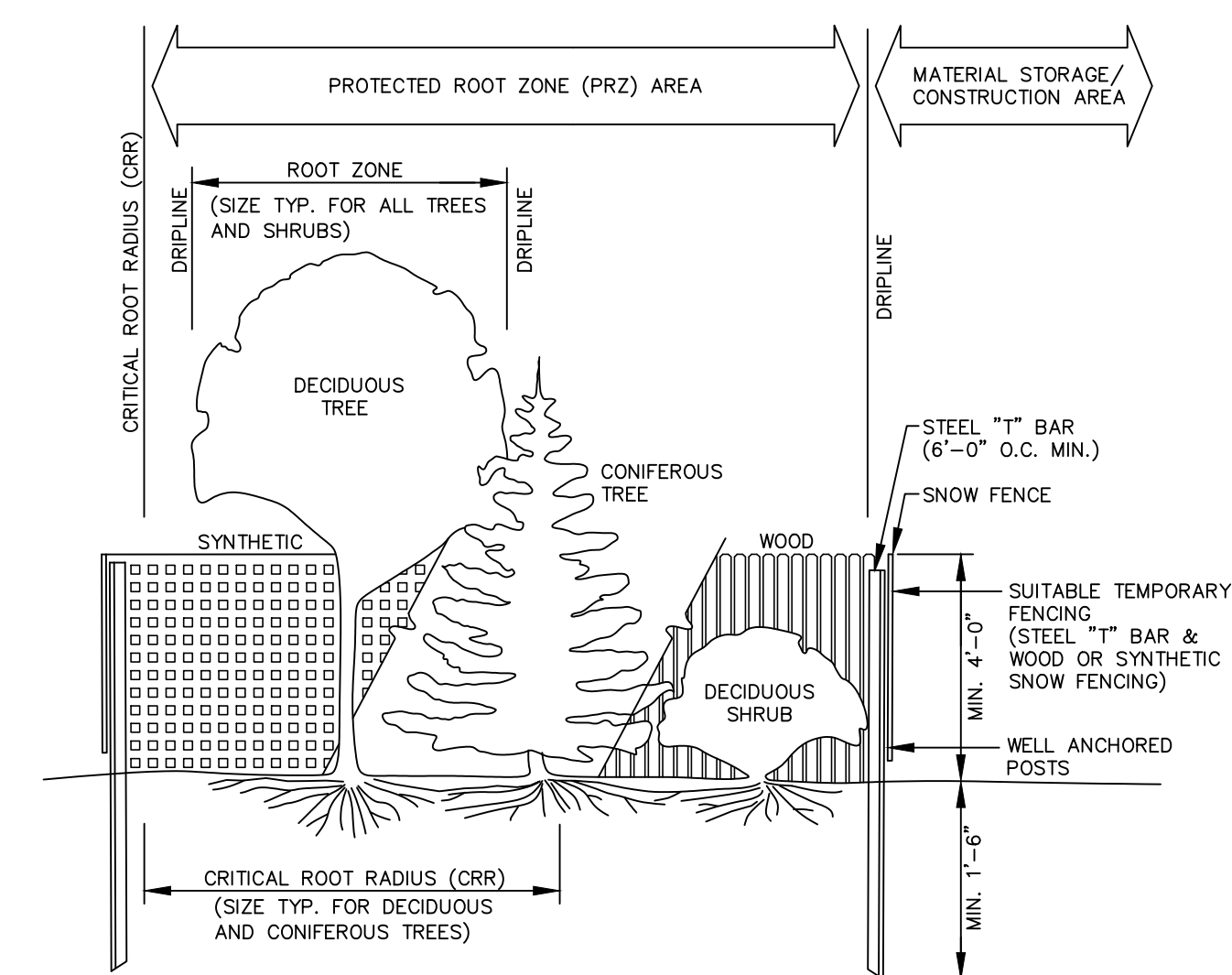
PROPOSED SILT FENCE



PROPOSED INLET PROTECTION



PROPOSED SOIL COMPACTION TEST LOCATION



CROSS SECTION OF TYPICAL PLANT GROUPING

Estimate a tree's Protect Root Zone (PRZ) by calculating the Critical Root Radius (CRR):

1. Measure the DBH (diameter of tree at breast height, 4.5 feet above ground on the uphill side of tree) in inches.
 2. Multiply measured DBH by 1.5 or 1.0. Express the result in feet.
- DBH x 1.5: Critical Root Radius for older, unhealthy, or sensitive species.
- DBH x 1.0: Critical Root Radius for younger, healthy or tolerant species.

As the major part of the root systems of the plant(s) to be protected are within the critical root radius / dripline zone, this entire area should be fenced off (to a maximum height of 4'-0") prior to construction and removed thereafter. For maximum protection, no vehicle trespass, excavation, fill, waste discharge or material storage should be allowed in this zone.

TREE PROTECTION DETAIL

N.T.S.



**CONSULTING AND
MUNICIPAL ENGINEERS**
NJ CERTIFICATE OF AUTHORIZATION
NO. 2462A28359000

3141 BORDENTOWN AVENUE, PARLIN, NJ 08859
1460 ROUTE 9 SOUTH, HOWELL, NJ 07731-1194
849 WEST BAY AVENUE, BARNEGAT, NJ 08005
ONE MARKET STREET, SUITE 1F, CAMDEN, NJ 08101
418 STOKES ROAD, MEDFORD, NJ 08055
821 N. MAIN STREET, PLEASANTVILLE, NJ 08232
203 S. MAIN STREET, MAY COURT HOUSE, NJ 08210

Michael J. Roberts, PE, CME
NJ Licensed
Professional Engineer #51526

**BURLINGTON COUNTY AGRICULTURAL CENTER
2026 SANITARY IMPROVEMENTS
500 CENTERTON ROAD, MOORESTOWN, NJ
BLOCK 8801, LOT 2,3 & 3Q FARM
MOORESTOWN TWP, BURLINGTON COUNTY, NEW JERSEY**

Date	Revisions

taylor
design
group

131 Hartford Road
Mount Laurel, NJ 08054
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www.tdgplanning.com

**Planning
Landscape Architecture
Municipal Consulting
Parks and Recreation**

© 2025 Taylor Design Group Inc.

Scott D. Taylor, LLA & PP
NJ Licensed
Landscape Architect #AS000681

S-1

SCALE: 1"=30'	DRAWN BY: MJR
DATE: 06.30.2026	JOB NO:

SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THE PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL. A NEW EROSION PREVENTION PLAN SHALL BE SUBMITTED TO THE DISTRICT INSPECTOR FOR REVIEW AND APPROVAL PRIOR TO ANY GRADING OPERATION.
3. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
4. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN SIXTY (60) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE STANDARDS. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE STANDARDS.
5. ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH IN ACCORDANCE WITH THE STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING.
6. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
7. ALL SOIL EROSION AND SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
8. SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOORPLAN, SLOPE, ROADWAY OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHOULD BE PROTECTED BY A HAY BALE BARRIER OR SEDIMENT FENCE. PROPOSED LOCATIONS MUST BE DELINEATED ON THE PLANS.
9. A CRUSHED STONE TINE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE RIP RAP PAD MUST BE 100 FEET IN LENGTH AND THE STONE MUST BE 1.5" - 4" IN SIZE, PLACED 12" THICK AND THE FULL WIDTH OF THE ENTRANCE. IT SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC FILTER FABRIC AND MAINTAINED. THE STRUCTURE MUST BE DELINEATED AND DETAILD ON THE PLANS.
10. IF A STONE CONSTRUCTION ACCESS IS TO BE USED AS AN EXIT ONTO A MAJOR HIGHWAY, A THIRTY (30) FOOT PAVED TRANSITION AREA SHALL BE INSTALLED.
11. ALL DRIVEWAYS MUST BE STABILIZED WITH 2 1/2" CRUSHED STONE OR SUB GRADE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
12. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
13. ALL CATCH BASIN INLETS WILL BE PROTECTED DURING CONSTRUCTION (FILTER DETAILS APPEAR ON PLAN).
14. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
15. ALL DRAINAGE OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTRATION DEVICE. THE SEDIMENT FILTER MUST BE PLACED SO AS NOT TO CAUSE EROSION OF THE DOWNSLOPE AREA. FIELD PLACEMENT AND USE OF THE STRUCTURE MUST BE APPROVED BY THE DISTRICT EROSION CONTROL INSPECTOR PRIOR TO COMMENCEMENT OF DRAINAGE ACTIVITIES.
16. THE BURLINGTON COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 72 HOURS PRIOR TO ANY LAND DISTURBANCE.
17. SOIL HAVING A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE MUST BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5.0 OR MORE BEFORE SEEDING PREPARATION.
18. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION RATES AT THE REQUEST OF THE BURLINGTON COUNTY SOIL CONSERVATION DISTRICT.
19. N.J.S.A. 4:24-39, ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE AS A PREREQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
20. N.J.S.A. 4:24-39, ET SEQ. REQUIRES THAT UPON PERMANENT SITE STABILIZATION AND COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL APPLY TO THE SOIL CONSERVATION DISTRICT FOR A FINAL COMPLIANCE INSPECTION TO CHECK THAT ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES.
21. OFF-SITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE DISTRICT EROSION CONTROL INSPECTOR.
22. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
23. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ALL SUBSEQUENT OWNERS.
24. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING TOPSOIL, THE STOCKPILE SHALL BE SEEDED WITH TEMPORARY VEGETATION. STABILIZE TOPSOIL STOCKPILES WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE ESTABLISHMENT OF TEMPORARY SEED.
25. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE BURLINGTON COUNTY SOIL CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
26. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1.
27. THE DISTRICT EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL MEASURES TO BE INSTALLED.
28. IMMEDIATELY PRIOR TO TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING. SEE DETAILS.
29. N.J.S.A. 4:24-39 ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE THE COMPLETION OF A SOIL COMPACTION MITIGATION VERIFICATION FORM AND CONFIRMATION BY THE DISTRICT INSPECTOR THAT THE COMPACTION MITIGATION REQUIREMENTS IN THE STANDARD FOR LAND GRADING HAVE BEEN SUFFICIENTLY ADDRESSED.
30. THE RESPONSIBILITY FOR EROSION CONTROLS FOR INDIVIDUAL LOTS WILL TRANSFER TO SUBSEQUENT OWNERS OF THE LOT. THIS RESPONSIBILITY WILL BE DESCRIBED IN THE DEED, AND A SINGLE FAMILY HOME PLAN CONTAINING ALL NECESSARY EROSION CONTROLS WILL BE PROVIDED TO THE OWNER.
31. CONCRETE TRUCK WASHOUT AREAS WILL BE MAINTAINED ON A CONTINUAL BASIS AND AS NEEDED.
32. THE STORMWATER POLLUTION PREVENTION PLAN AND THE SPILL RESPONSE PLAN SHALL BE AVAILABLE ON SITE FOR REVIEW BY THE SOI INSPECTOR AND/OR THE NAMED INSPECTOR. SUDS.
33. THE SED INSPECTOR OR NAMED INSPECTOR MAY REQUIRE ADDITIONAL MEASURES FOR STORMWATER POLLUTION PREVENTION TO BE INSTALLED.
34. INSPECTIONS OF ALL STORMWATER POLLUTION PREVENTION PLAN MEASURES WILL BE CONDUCTED AND DOCUMENTED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
35. WASTE COLLECTION CONTAINERS WILL NOT BE PERMITTED TO OVERFLOW.
36. ANY SPILLS OF HAZARDOUS OR SANITARY WASTES WILL BE CLEANED UP IMMEDIATELY, AND IN ACCORDANCE WITH THE SPILL RESPONSE PLAN. SPILL KITS MUST BE AVAILABLE OFFSITE OR ADJACENT TO THE SITE.
37. ANY HAZARDOUS SUBSTANCE RELEASES IN EXCESS OF REPORTABLE QUANTITIES (ND) ESTABLISHED UNDER 40 CFR 117 AND 302 THAT OCCUR WITHIN A 24-HOUR PERIOD MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER (800 424-8802).

STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

METHODS AND MATERIALS

1. SITE PREPARATION

- A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING.
 - B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING.
 - C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.
 - D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
2. SEEDING PREPARATION
- A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS CO-OPERATIVE EXTENSION OFFICES (HTTP://NAJESRUTGERS.EDU/COUNTY/). FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH SOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. INCORPORATE INTO THE SURFACE 4 INCHES. FERTILIZER IS NOT INCORPORATED, APPLY ONE-HALF THE RATE DESCRIBED ABOVE. DURING SEEDING PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING.
 - B. WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
 - C. HIGH ACID PRODUCING SOILS, SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING SEEDBED PREPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.
3. SEEDING
- A. SELECT A MIXTURE FROM TABLE 4-3 OR USE A MIXTURE RECOMMENDED BY RUTGERS CO-OPERATIVE EXTENSION OR NATURAL RESOURCES CONSERVATION SERVICE WHICH IS APPROVED BY THE SOIL CONSERVATION DISTRICT. SEED GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS OF THE PLANTING DATE. NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 MONTHS OLD UNLESS RETESTED.
 1. SEEDING RATES SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO SOIL REDUCTION IN RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO A REPORT OF COMPLIANCE INSPECTION. THESE RATES APPLY TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS: SOIL VEGETATIVE COVER WITH THE SPECIFIED SEED MIXTURE FOR THE SEEDING AREA AND MOVED DICES.
 2. WARM-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH TEMPERATURES. GENERALLY SPRING AND ABOVE. PLANTING RATES FOR WARM-SEASON GRASSES SHALL BE THE AMOUNT OF PURE LIME (PLS) AS DETERMINED BY GERMINATION TESTING RESULTS.
 3. COOL-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 60°F. MANY GRASSES BECOME ACTIVE AT 65°F. - SEE TABLE 4-3. MIXTURES 7&14, ADJUSTMENT OF PLANTING RATES TO COMPENSATE FOR THE AMOUNT OF PLS IS NOT REQUIRED FOR COOL SEASON GRASSES.
- CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDERS. EXCEPT FOR DRILLED, HYDROSEED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH. BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL.

AFTER SEEDING, FIRING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD WHEN PERFORMED ON THE CONTOUR. SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.

HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER-MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT-FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH.

4. MULCHING

(SEE MULCHING SPECIFICATION FOR PERMANENT AND TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION)

5. IRRIGATION (WHERE FEASIBLE)

IF SOIL MOISTURE IS DEFICIENT SUPPLY NEW SEEDLING WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH APPLIED UP TO THREE (3) DAYS UNTIL VEGETATION IS ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR HOT WEATHER. MULCH ON DROUGHTY SITES.

TOPDRESSING

SINCE SOIL ORGANIC MATTER CONTENT AND SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) ARE PRESCRIBED IN SECTION 2A - SEEDBED PREPARATION IN THIS STANDARD, NO FOLLOW-UP OF TOPDRESSING IS MANDATORY. AN EXCEPTION MAY BE MADE WHERE GROSS NITROGEN DEFICIENCY EXISTS IN THE SOIL. TO THE EXTENT THAT TURF FAILURE MAY DEVELOP. IN THAT INSTANCES, TOPDRESS WITH 10-10-10 OR EQUIVALENT AT 300 POUNDS PER ACRE OR 7 POUNDS PER 1,000 SQUARE FEET EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS ALLEVIATED.

ESTABLISHING PERMANENT VEGETATIVE STABILIZATION

THE QUALITY OF PERMANENT VEGETATION RESTS WITH THE CONTRACTOR. THE TIMING OF SEEDING, PREPARING THE SEEDBED, APPLYING NUTRIENTS, MULCH AND OTHER MANAGEMENT ARE ESSENTIAL. THE SEED APPLICATION RATES IN TABLE 4-3 ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO SOIL REDUCTION IN APPLICATION RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO REQUESTING A REPORT OF COMPLIANCE FROM THE DISTRICT. THESE RATES APPLY TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS SOIL VEGETATIVE COVER (OF THE SEEDER SPECIES) AND MOVED DICES. NOTE THIS DESIGNATION OF MOVED DICES DOES NOT GUARANTEE THE PERMANENCY OF THE TURF SHOULD OTHER MAINTENANCE FACTORS BE NEGLECTED OR OTHERWISE INADEQUATE MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

TABLE 4-3 (SELECTIONS AND RECOMMENDATIONS FROM TABLE 4-3)

PERMANENT SEED IN DETENTION BASIN MIXTURE:	PERMANENT SEED MIXTURE:
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1. CONSISTING OF: (COOL SEASON SEED MIXTURE #7)
130 LBS/ACRE STRONG GREERING RED FESCUE
50 LBS/ACRE KENTUCKY BLUEGRASS
20 LBS/ACRE PERENNIAL RYE GRASS OR
10 LBS/ACRE REDTOP
5 LBS/ACRE FRESH, WHITE CLOVER
215 LBS/ACRE
1. CONSISTING OF: (COOL SEASON SEED MIXTURE #14)
265 LBS/ACRE TALL FESCUE
50 LBS/ACRE KENTUCKY BLUEGRASS (BLEND)
20 LBS/ACRE PERENNIAL RYE GRASS (BLEND)
305 LBS/ACRE

2. SEED MIX SHALL BE FRESH, CLEAN, NEW-CROP SEED WITH A GUARANTEED STATEMENT OF COMPOSITION.

3. SEED TO BE PLANTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.

4. SEED TO BE PLANTED TO ITS OPTIMUM DEPTH OF 1/2".

5. SEEDING DATES: MARCH 1 - NOVEMBER 15.

STANDARD FOR TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

METHODS AND MATERIALS

1. SITE PREPARATION

- A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING.
 - B. IMMEDIATELY PRIOR TO SEEDING, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING. SEE DETAILS.
 - C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.
 - D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
2. SEEDING PREPARATION
- A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS CO-OPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH SOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. APPLY LIME AT THE RATE OF 2 TONS/ACRE UNLESS SOIL TESTING INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE AMOUNT OF LIME MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES.
 - B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
 - C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED IN ACCORDANCE WITH THE ABOVE.
 - D. SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS.
3. SEEDING
- A. SELECT SEED FROM RECOMMENDATIONS IN TABLE 7-2.
 - B. CONVENTIONAL SEEDING: APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDERS. EXCEPT FOR DRILLED, HYDROSEED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF 1/4 TO 1/2 INCH. BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL.
 - C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER-MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT-FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS 100 STEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.
 - D. AFTER SEEDING, FIRING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD WHEN PERFORMED ON THE CONTOUR. SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.
4. MULCHING

(SEE MULCHING SPECIFICATION FOR PERMANENT AND TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION)

TABLE 7-2 (SELECTION AND RECOMMENDATIONS FROM TABLE 7-2) TEMPORARY SEED MIXTURE:

1. CONSISTING OF PERENNIAL GRASSES (COOL SEASON GRASS #1) AT A RATE OF 1/16000 S.F.
2. SEED MIX SHALL BE FRESH, CLEAN, NEW-CROP SEED WITH A GUARANTEED STATEMENT OF COMPOSITION.
3. SEED TO BE PLANTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
4. SEED TO BE PLANTED TO ITS OPTIMUM DEPTH OF 1/2".

5. SEEDING DATES: MARCH 1 - MAY 15 AND MAY 15 - OCTOBER 1.

MULCHING SPECIFICATION FOR PERMANENT AND TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

MULCHING IS REQUIRED ON ALL SEEDING, MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND IT WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DETERMINED COMPLIANCE WITH THIS MULCHING REQUIREMENT.

- A. STRAW OR HAY: UNMOTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET). EXCEPT THAT WHERE A CRUMPER IS USED INSTEAD OF A LIQUID MULCH-SPREADER (TACKING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.
- B. APPLICATION: SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85%-95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO PROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
- C. ANCHORING: MULCH BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.

1. PEG AND TWINE: DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRIS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
2. MULCH NETTINGS: STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOVED.

3. CRUMPER (MULCH ANCHORING TOOL): A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKING OR ADHESIVE AGENT IS REQUIRED.

4. LIQUID MULCH-BINDERS: - MAY BE USED TO ANCHOR HAY OR STRAW MULCH.

- A. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH IN VALLEYS, AND AT CRISTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE.

- B. USE ONE OF THE FOLLOWING:

- (1) ORGANIC AND VEGETABLE BASED BINDERS - NATURALLY OCCURRING, POWDER BASED, HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY DURING CONDITIONS WILL FORM MEANWHILE NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOLOGIC EFFECT OR IMPEDED GROWTH OF TURFGRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE. SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE.

- (2) SYNTHETIC BINDERS - HIGH POLYMER SYNTHETIC EMULSION, MISBLE WITH WATER WHEN DILUTED AND FOLLOWING APPLICATION TO MULCH, LYING AND DURING SHALL NO LONGER BE SUSCEPTIBLE TO DISPERSIBLE IN WATER. IT SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.

STANDARD FOR STABILIZATION WITH MULCH ONLY

METHODS AND MATERIALS

- A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING.
- B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
- C. PROTECTIVE MATERIALS

1. UNMOTTED SMALL-GRAIN STRAW, OR SALT HAY AT 2.0 TO 2.5 TONS PER ACRE IS SPREAD UNIFORMLY AT 90 TO 115 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING THE DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.

2. ASPHALT EMULSION IS RECOMMENDED AT THE RATE OF 600 TO 1,200 GALLONS PER ACRE. THIS IS SUITABLE FOR A LIMITED PERIOD OF TIME WHERE TRAVEL BY PEOPLE, ANIMALS, OR MACHINES IS NOT A PROBLEM.

3. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN QUANTITIES AS RECOMMENDED BY THE MANUFACTURER.

4. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE (OR ACCORDING TO THE MANUFACTURER'S REQUIREMENTS) MAY BE APPLIED BY A HYDROSEEDER.

5. MULCH NETTING, SUCH AS PAPER, JUTE, COTTON, OR PLASTIC, MAY BE USED.

6. WOODCHIPS APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 2 INCHES MAY BE USED. WOODCHIPS WILL NOT BE USED ON AREAS WHERE FLOWING WATER COULD WASH THEM INTO AN INLET AND PLUG IT.

7. GRAVEL, CRUSHED STONE, OR SLAG AT THE RATE OF 9 CUBIC YARDS PER 1,000 SQ. FT. APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 3 INCHES MAY BE USED. SIZE 2 OR 3 (ASTM C-33) IS RECOMMENDED.

8. MULCH ANCHORING: SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT OF HAY OR STRAW MULCH TO MINIMIZE LOSS BY WIND AND WATER. THIS PRACTICE AFFORDS MAXIMUM EROSION CONTROL.

9. MULCH NETTING, SUCH AS PAPER, JUTE, COTTON, OR PLASTIC, MAY BE USED.

10. WOODCHIPS APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 2 INCHES MAY BE USED. WOODCHIPS WILL NOT BE USED ON AREAS WHERE FLOWING WATER COULD WASH THEM INTO AN INLET AND PLUG IT.

11. GRAVEL, CRUSHED STONE, OR SLAG AT THE RATE OF 9 CUBIC YARDS PER 1,000 SQ. FT. APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 3 INCHES MAY BE USED. SIZE 2 OR 3 (ASTM C-33) IS RECOMMENDED.

12. MULCH ANCHORING: SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT OF HAY OR STRAW MULCH TO MINIMIZE LOSS BY WIND AND WATER. THIS PRACTICE AFFORDS MAXIMUM EROSION CONTROL.

13. MULCH NETTING, SUCH AS PAPER, JUTE, COTTON, OR PLASTIC, NETTINGS OVER MULCH, USE A DEGRADABLE NETTING IN AREAS TO BE MOVED. NETTING IS USUALLY AVAILABLE IN ROLLS 4 FEET WIDE AND UP TO 300 FEET LONG.

14. CRUMPER (MULCH ANCHORING TOOL) - A TRACTOR-DRAWN IMPLEMENT ESPECIALLY DESIGNED TO PUSH AND ANCHOR MULCH INTO THE SOIL SURFACE. THIS PRACTICE AFFORDS MAXIMUM EROSION CONTROL. BUT ITS USE IS LIMITED TO THOSE SLOPES UPON WHICH THE TRACTOR CAN OPERATE SAFELY. SOIL PENETRATION SHOULD BE ABOUT 3 TO 4 INCHES. ON SLOPING LAND, THE OPERATION SHOULD BE ON THE CONTOUR.

15. LIQUID MULCH-BINDERS

1. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN VALLEYS, AND AT CRISTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE.

2. USE ONE OF THE FOLLOWING:

- a. EMULSIFIED ASPHALT (SS-1,SSS-1,OMS-2,MS-2,RS-2,CRS-1, AND CRS-2). APPLY 0.04 GAL./SQ.YD. OR 194 GAL./ACRE ON FLAT AREAS AND ON SLOPES LESS THAN 8 FEET OR MORE HIGH. USE 0.075 GAL./SQ.YD. OR 363 GAL./ACRE. THESE MATERIALS MAY BE DIFFICULT TO APPLY UNIFORMLY AND WILL DISCOLOR SURFACES.

- b. ORGANIC AND VEGETABLE BASED BINDERS - NATURALLY OCCURRING, POWDER BASED, HYDROPHILIC MATERIALS THAT MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO A MULCH UNDER SATISFACTORY DURING CONDITIONS WILL FORM MEANWHILE NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOLOGIC EFFECT OR IMPEDED GROWTH OF TURFGRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER.

- c. SYNTHETIC BINDERS - HIGH POLYMER SYNTHETIC EMULSION, MISBLE WITH WATER WHEN DILUTED AND FOLLOWING APPLICATION TO MULCH, LYING AND DURING SHALL NO LONGER BE SUSCEPTIBLE TO DISPERSIBLE IN WATER. IT SHALL BE APPLIED AT RATES AND WEATHER CONDITIONS RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

3. CRUMPER (MULCH ANCHORING TOOL) - A TRACTOR-DRAWN IMPLEMENT ESPECIALLY DESIGNED TO PUSH AND ANCHOR MULCH INTO THE SOIL SURFACE. THIS PRACTICE AFFORDS MAXIMUM EROSION CONTROL. BUT ITS USE IS LIMITED TO THOSE SLOPES UPON WHICH THE TRACTOR CAN OPERATE SAFELY. SOIL PENETRATION SHOULD BE ABOUT 3 TO 4 INCHES. ON SLOPING LAND, THE OPERATION SHOULD BE ON THE CONTOUR.

4. LIQUID MULCH-BINDERS

1. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN VALLEYS, AND AT CRISTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE.

2. USE ONE OF THE FOLLOWING:

- a. EMULSIFIED ASPHALT (SS-1,SSS-1,OMS-2,MS-2,RS-2,CRS-1, AND CRS-2). APPLY 0.04 GAL./SQ.YD. OR 194 GAL./ACRE ON FLAT AREAS AND ON SLOPES LESS THAN 8 FEET OR MORE HIGH. USE 0.075 GAL./SQ.YD. OR 363 GAL./ACRE. THESE MATERIALS MAY BE DIFFICULT TO APPLY UNIFORMLY AND WILL DISCOLOR SURFACES.

- b. ORGANIC AND VEGETABLE BASED BINDERS - NATURALLY OCCURRING, POWDER BASED, HYDROPHILIC MATERIALS THAT MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO A MULCH UNDER SATISFACTORY DURING CONDITIONS WILL FORM MEANWHILE NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOLOGIC EFFECT OR IMPEDED GROWTH OF TURFGRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER.

- c. SYNTHETIC BINDERS - HIGH POLYMER SYNTHETIC EMULSION, MISBLE WITH WATER WHEN DILUTED AND FOLLOWING APPLICATION TO MULCH, LYING AND DURING SHALL NO LONGER BE SUSCEPTIBLE TO DISPERSIBLE IN WATER. IT SHALL BE APPLIED AT RATES AND WEATHER CONDITIONS RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

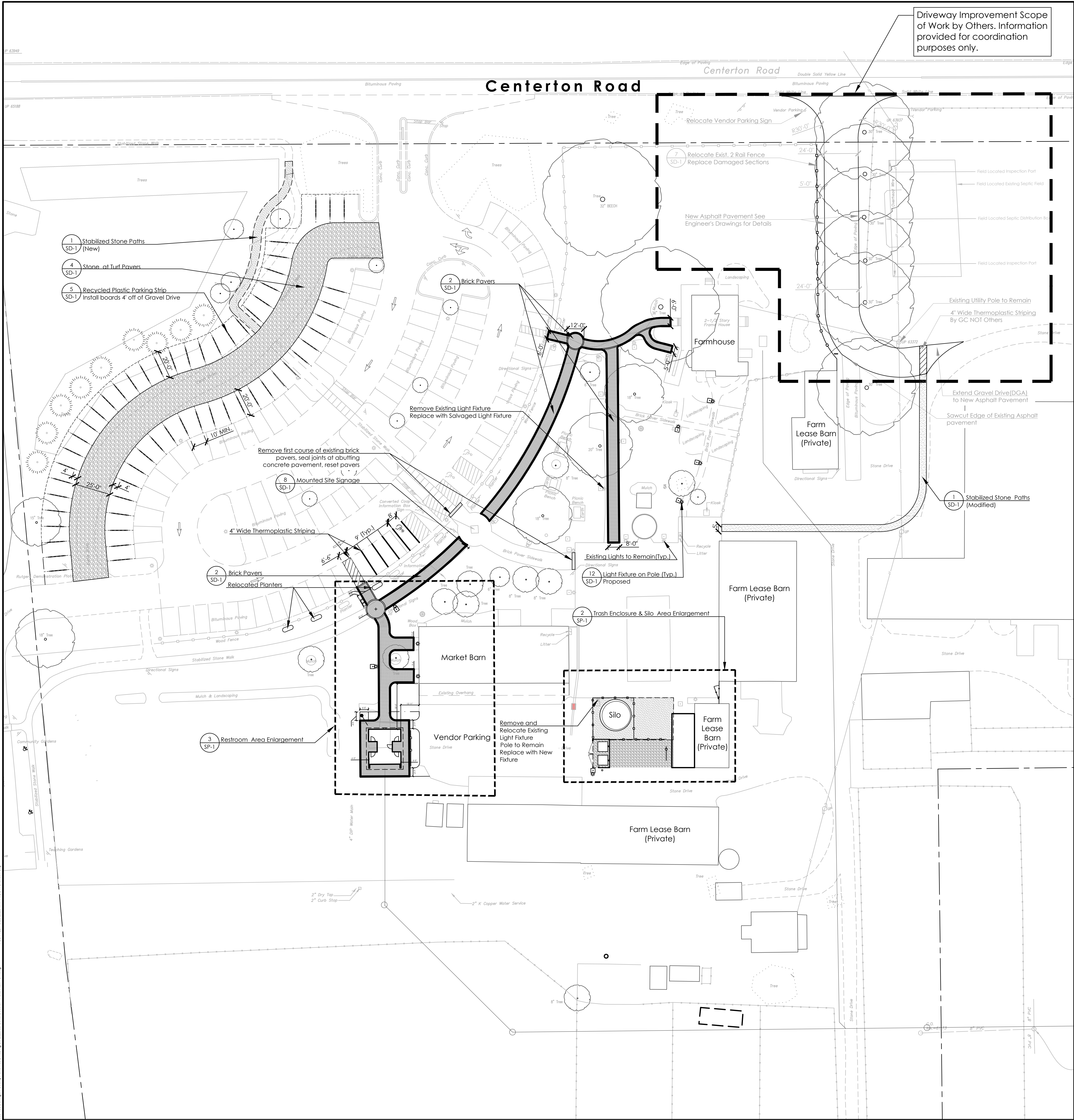
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4. LIQUID MULCH-BINDERS

1. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN VALLEYS, AND AT CRISTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE.

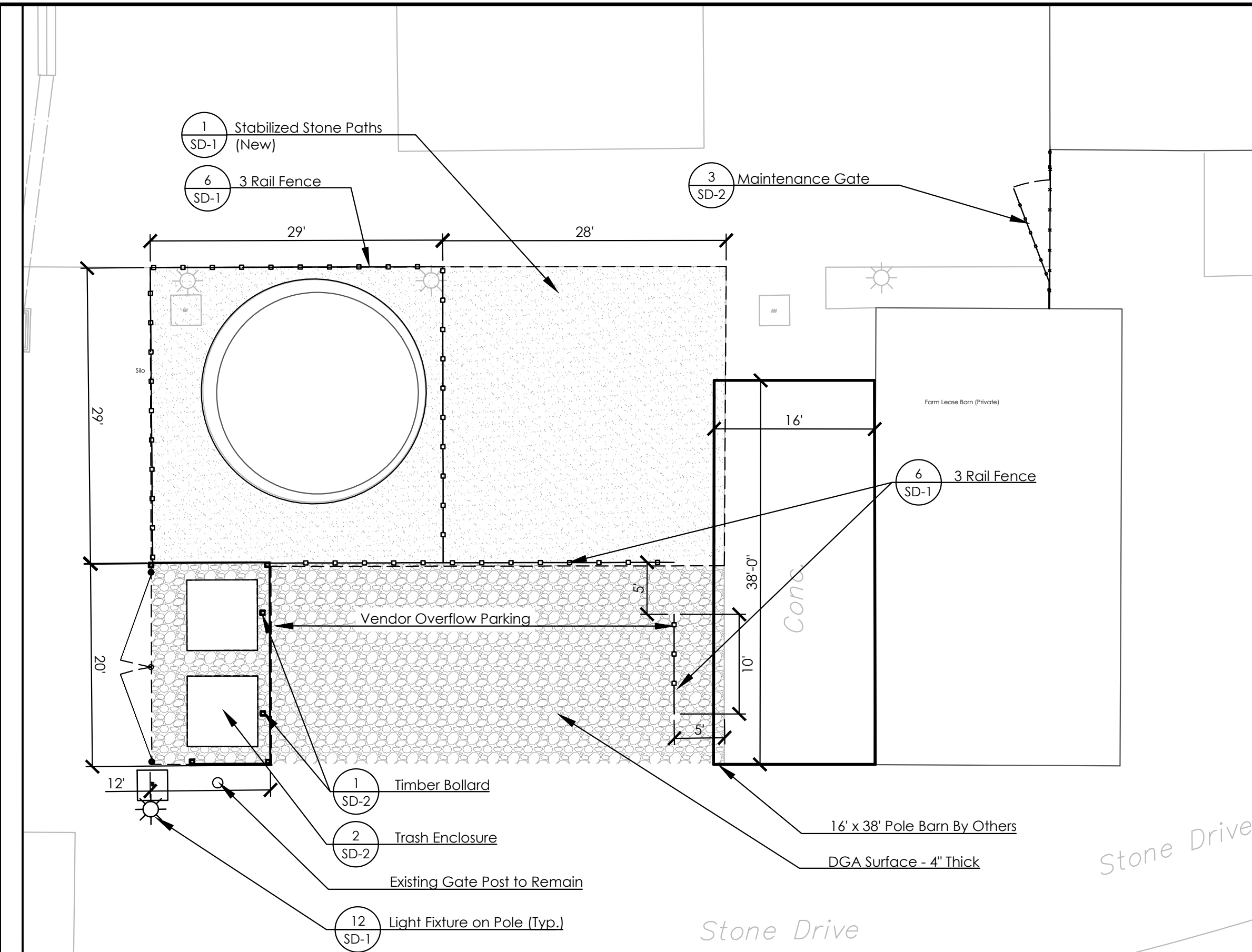
2. USE ONE OF THE FOLLOWING:

- a. EMULSIFIED ASPHALT (SS-1,SSS-1,OMS-2,MS-2,RS-2,CRS-1, AND CRS-2). APPLY 0.04 GAL./SQ.YD. OR 1



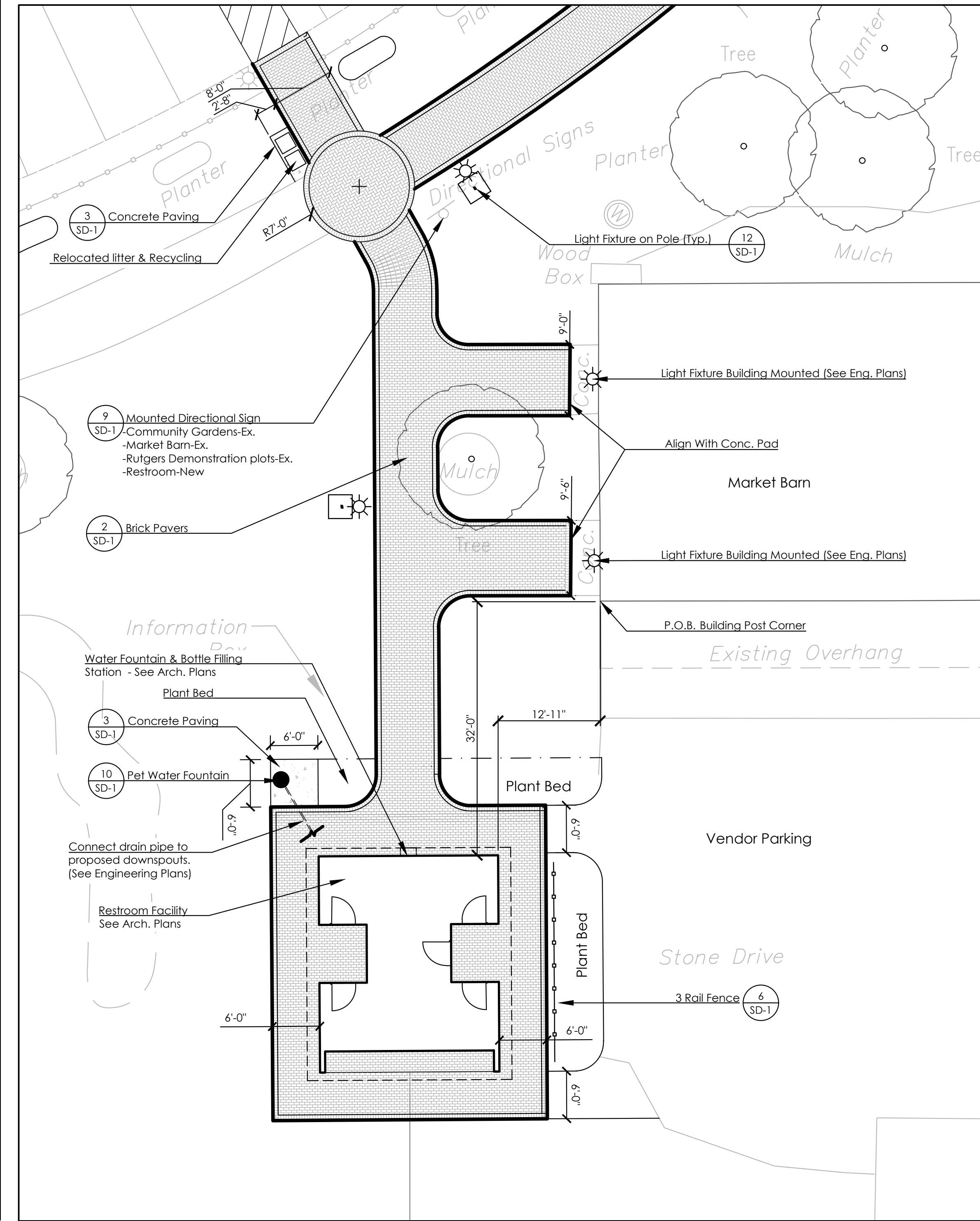
1 Overall Site Plan
SP-1
SCALE: 1" = 30'

GRAPHIC SCALE
1 inch = 30 ft.



2 Trash Enclosure & Silo Area Enlargement
SP-1
SCALE: 1" = 10'

GRAPHIC SCALE
1 inch = 10 ft.



3 Overall Site Plan
SP-1
SCALE: 1" = 10'

GRAPHIC SCALE
1 inch = 10 ft.

SITE PLAN

BURLINGTON COUNTY AGRICULTURAL CENTER
2026 IMPROVEMENTS
500 CENTERION ROAD, MOORESTOWN, NJ
BLOCK 8801, LOT 2.3 & 3Q FARM
MOORESTOWN TWP, BURLINGTON COUNTY, NEW JERSEY

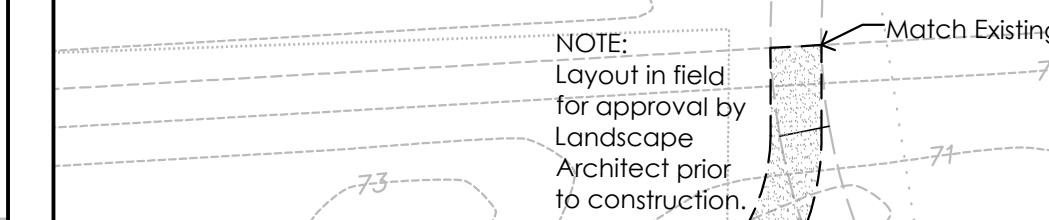
No.	Date	Revision

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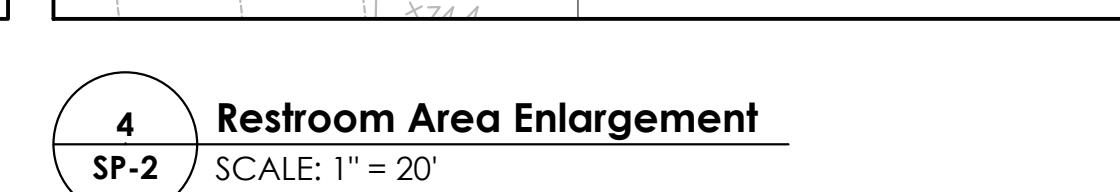
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Scott D. Taylor, LLA & PP
NJ Licensed
Landscape Architect #AS000681

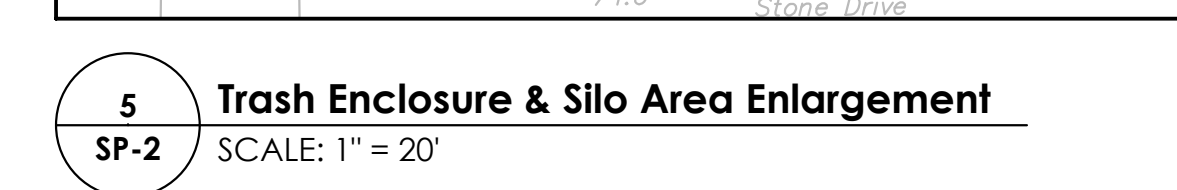
SP-1
AS SHOWN
DATE: 06.30.2026
DRAWN BY: CT
JOB NO:





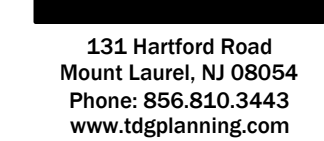


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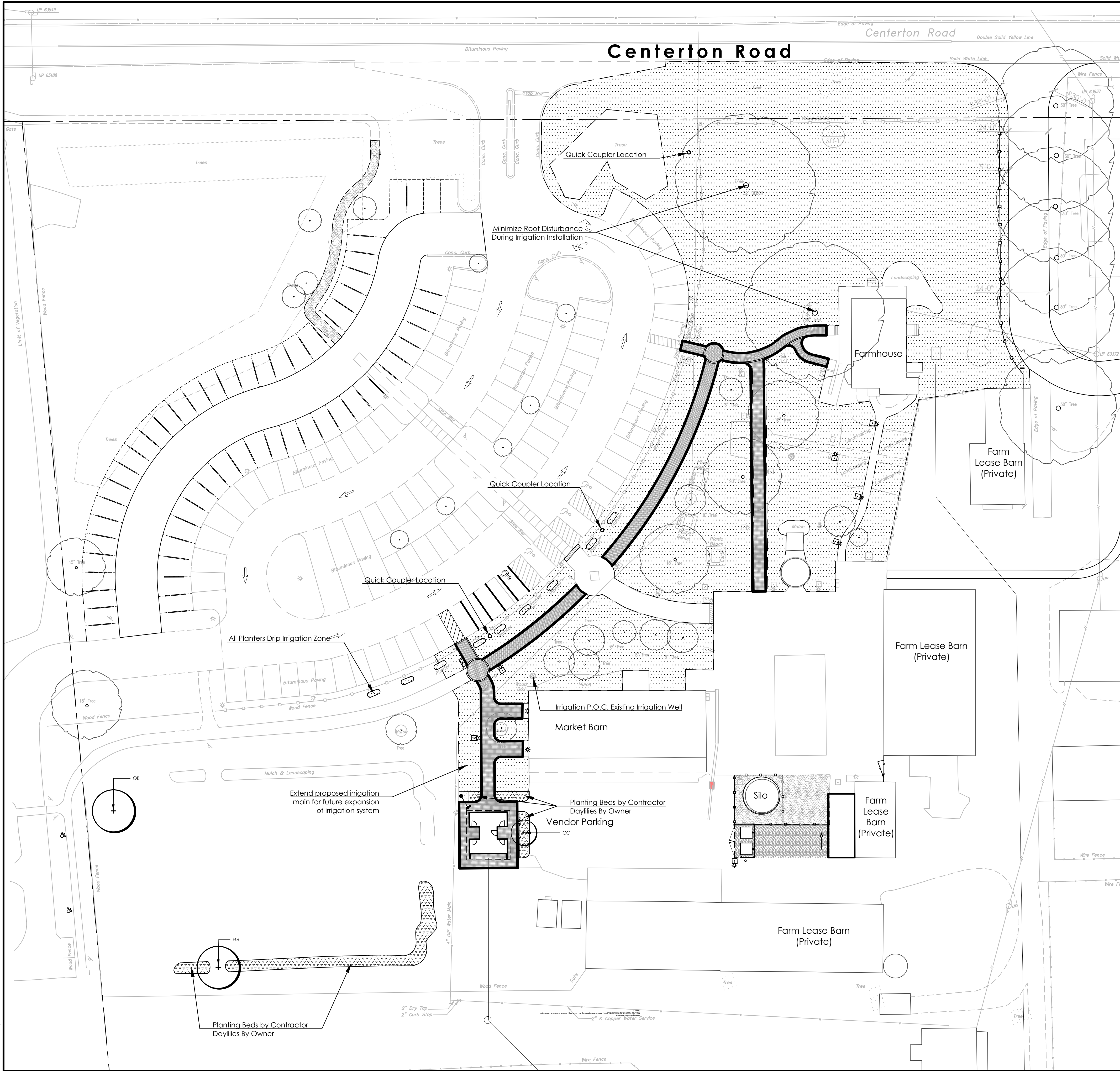


GRAPHIC SCALE

BURLINGTON COUNTY AGRICULTURAL CENTER
2026 IMPROVEMENTS
500 CENTERTON ROAD, MOORESTOWN, NJ
BLOCK 8801, LOT 2,3 & 3Q FARM
MOORESTOWN TWP, BURLINGTON COUNTY, NEW JERSEY



AS SHOWN	DRAWN BY: CT
DATE: 06.30.2026	JOB NO:



1 Landscape Plan
LA-1 SCALE: 1"=30'

PLANT LIST - AGRICULTURE CENTER							
KEY	QTY.	BOTANICAL NAME	COMMON NAME	CAL	HT	ROOT	COMMENTS
SHADE TREES							
FG	1	Fagus grandifolia	American Beech	2.5'-3"	10'-12'	B&B	FH - Full specimen, single trunk
QB	1	Quercus bicolor	Swamp White Oak	2.5'-3"	10'-12'	B&B	FH - Uniform, single stemmed, limbed to 7"
ORNAMENTAL TREES							
CC	1	Cercis canadensis 'Rising Sun'	Rising Sun Eastern Redbud	-	8' - 10'	B&B	FH - Uniform, single stemmed
SCHEDULE KEY: FH = Fall Digging Hazard							

2 Plant List
LA-1

LANDSCAPE MAINTENANCE

- Maintenance procedures shall be carried out by trained personnel to promote the establishment of the trees and shrubs and ensure that they are in healthy and viable condition two (2) years after planting at site.
- Water trees and shrubs as necessary throughout spring, summer and fall, to ensure the equivalent of 1" of rainfall is applied each week, if sufficient rainfall has not occurred. It is the responsibility of the contractor to provide water if no suitable irrigation or water source is available on site.
- Inspections shall consist of regular visits to the planting sites by the contractor to determine the health and needs of the trees. Inspection times and dates are the responsibility of the contractor, but a minimum of four (4) inspections shall be conducted during the year, with one scheduled during each of the months of April, May, June and November.
- The mulch rings of caliper size trees shall be kept free of weeds by using either chemical controls or hand weeding, four (4) times per year. Any pre emergent or post emergent weed control application shall be applied in a manner consistent with the label and all State and Federal Regulations, and only target the undesirable plants.
- Tree stakes and supporting materials shall be maintained according to the planting specifications, or replaced as necessary during the first maintenance year. See planting detail. All staking and guy materials shall be removed and legally disposed of by the contractor at the end of the first year, unless otherwise directed by the Landscape Architect no staking / guying material shall remain after two (2) years, unless subsurface rootball anchors are used.
- Any tree that deviates from a vertical position shall be adjusted so that the main trunk is plumb in two directions that are 90 degrees from each other. All care shall be taken not to harm the root ball or root system of the tree during resetting operations.
- Trees shall be kept free of disease or insect infestations that can affect their health or establishment. Integrated pest management techniques shall be employed by the contractor in the correct season to minimize or alleviate the undesirable condition. Any pest control application shall be applied in a manner consistent with the label and all State and Federal Regulations, and shall only target the undesirable pests and the affected plants.
- A balanced slow release fertilizer shall be applied at the recommended rate at the end of the first growing season in late fall. The fertilizer shall be formulated for trees and approved by the Landscape Architect, prior to application. The application may be made by either soil injection along the outside of the mulch ring, or by applying a granular form to the mulch ring area. Any fertilizer application shall be applied in a manner consistent with the label and all State and Federal Regulations.
- Pruning shall be done only to dead, broken, diseased or infested branches during the maintenance period, and shall be in accordance with the NJ Board of Tree Experts' pruning standards for shade trees.

IRRIGATION NOTES:

- Bid includes a cost for the complete design and installation of an irrigation system that will cover all turf species (shaded lawn areas) areas, drip lines for planters and quick connectors as noted on the plan. Refer to project Specifications for performance design specifications information. No details are provided on drawings.
- Point of connection for irrigation will be the well located by the northwest corner of the Market Barn as designated on this plan.
- NOT to be irrigated: Bioretention basins, meadow areas, wooded areas, paved surfaces and buildings. No direct spray to proposed signs.

LANDSCAPE NOTES:

- Landscape shall conform to plans and written "Specifications".
- Any plant location conflicts that may arise during construction shall be brought to the attention of the Project Landscape Architect prior to installing the plant or seeding an area.
- Seed disturbed areas and over seed existing lawn at 80lbs/1000 sf.

PLANTING NOTES

- Plants shall be typical of their species and variety, have normal growth habits, well-developed branches, densely foliated, vigorous root systems and be free from defects and injuries. All plants shall bear legible nursery tags.
- Plant material shall be planted on the day of delivery. In the event this is not possible, the contractor shall protect stock plants which have not been planted. Plants shall not remain unplanted for longer than a three day period after delivery.
- Quality, branching and size of plants, including root size, shall be in accordance with "AMERICAN STANDARDS FOR NURSERY STOCK" ANSI Z60 (Most recent edition) as published by the American Association of Nurserymen.
- B&B plants shall be handled from the bottom of the root ball only. Plants with broken, split, or damaged root balls shall be rejected. The entire wire basket shall be cut away with tools that do not damage the integrity of the rootball, before covering root ball with soil. Burlap shall be removed from at least the top 2/3 of the root ball before covering root ball with soil.
- No planting holes are to be excavated in advance. The planting holes must be approved by the Landscape Architect prior to the start of planting operations.
- Backfill mixture shall be the existing native topsoil, or 'a' horizon. If determined to be unsuitable on site, an approved imported topsoil with similar soil characteristics to the native topsoil shall be used. Unsuitable excavated material is to be removed from the site and disposed of at the contractor's sole expense. Mycorrhiza inoculants with a diverse species formulation shall be added to the planting pit.
- All tree pits and planting beds shall be mulched to a depth of 3-4 inches with shredded hardwood mulch. Mulch shall not be in contact with trunks of trees or shrubs, and shall not cover lower branches of shrubs and evergreen / multitem trees. All bedlines shall be cut 4" deep into a 'V' shaped groove to provide a well-defined edge. The layout of all bedlines shall be approved by the Landscape Architect, on-site, prior to cutting. Plants shall be thoroughly watered after mulching.
- Mulch shall not be placed in contact with the trunks of trees or branches of shrubs or evergreen trees, or the planting shall be rejected.
- The contractor shall be responsible for all utility mark outs and compliance with all Federal, State, Local codes, Lawful Orders or Regulations governing upon this work.
- All plant material locations are approximate, and the final location of all plants, including transplanted trees, shall be approved by the Landscape Architect on-site prior to planting.
- If and when directed by the Landscape Architect, the contractor shall be responsible for the proper installation and maintenance of all tree guys, stakes, supports and mulch rings or beds during construction and the two (2) year maintenance period. Trees shall not be wrapped. All free stakes and guy wires shall be removed after one (1) year. Only those trees that require straightening shall be staked beyond one (1) year after planting. All remaining stake/guy materials shall be removed before the two (2) year inspection.
- The contractor shall report any soil or drainage conditions considered detrimental to the growth of the proposed plant material.
- Street and parking lot trees shall be pruned of any branches that interfere with pedestrians, vehicles, or signs, min. vertical clearance ht. shall be 6' above paved surfaces. Street trees must be single trunk, full, uniform specimens.
- Any discrepancy between the plans and field conditions will be resolved by the Landscape Architect in the field.
- Planting operations shall be performed during periods within the planting season when weather and soil conditions are suitable and in accordance with acceptable local practices. Trees and shrubs should be installed during the following fall and spring seasons depending upon the location of the proposed plants.

FALL AUG. 15 - DEC. 15 EVERGREEN TREES
OCT. 15 - DEC. 15 DECIDUOUS TREES

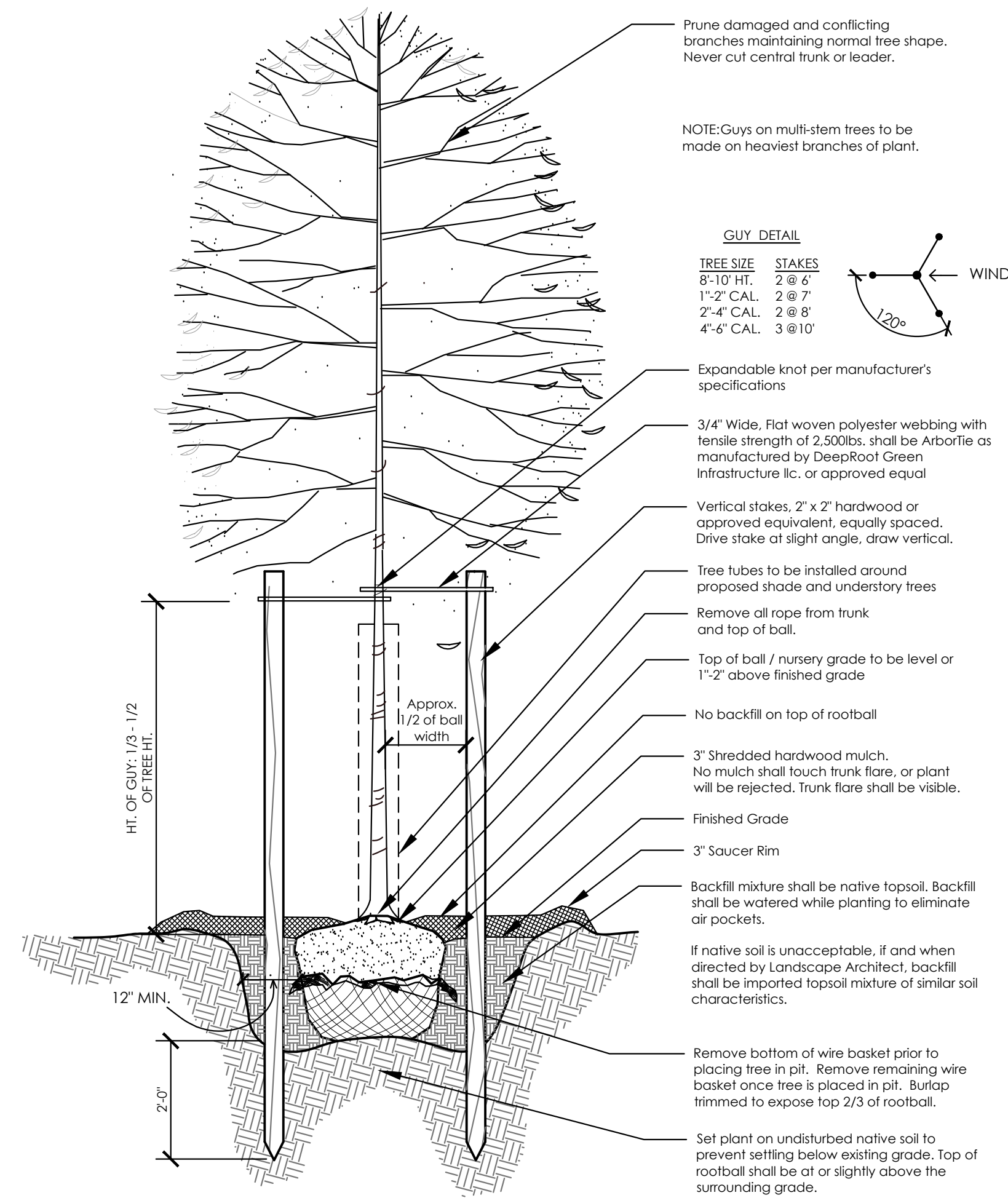
The contractor shall submit a written proposed work schedule to the Landscape Architect, for approval at least two (2) weeks prior to beginning operations. After the schedule is accepted no modifications will be permitted without written authorization from the Landscape Architect.

16. The contractor shall locate all plant material within 30 days of the contract being awarded. All plant material shall be reviewed and inspected by the Landscape Architect at the nursery prior to planting. First, all plant material must be selected and tagged by the Landscape Architect, the Landscape Architect shall be notified in order to schedule his nursery inspection with a minimum of 5 business days advance notice. The contractor shall accompany the Landscape Architect on this inspection. The contractor shall have located sufficient alternate choices to prevent loss of time in the event that some trees fail to meet with the approval of the Landscape Architect. All trees must be approved in the field by the Landscape Architect before digging begins. Field collected plant material shall not be used unless nursery grown stock is not available, and then only when authorized in writing by the Landscape Architect. Collected stock shall have rootballs in accordance with American Association of Nurserymen Standards.

17. The contractor shall adhere to the maintenance schedule as described below and in the specifications.

18. The contractor shall guarantee all plant material installed under this contract for a period of one (1) year after the Landscape Architect's final acceptance of all planting at no additional cost to the owner, unless otherwise obligated by contract. The contractor shall replace any trees, shrubs or plants that are dead or that are, in the opinion of the Landscape Architect, unhealthy, unsightly or have lost their design value or natural shape because of dead branches, excessive pruning, or inadequate or improper maintenance. All the above mentioned material will be removed immediately upon direction of the Landscape Architect and replacement planting is to be completed per project specification.

19. All dead or severely declining plants shall be replaced with in the next growing season, during the performance and maintenance bond period.



3 Deciduous Tree Planting
LA-1 SCALE: 1/2"=1'-0"

LANDSCAPE PLAN

BURLINGTON COUNTY AGRICULTURAL CENTER
2026 IMPROVEMENTS
500 CENTERION ROAD, MOORESTOWN, NJ
BLOCK 8801, LOT 2.3 & 3Q FARM
MOORESTOWN TWP, BURLINGTON COUNTY, NEW JERSEY

No.	Date	Revision

taylor
design
group

1331 Hartford Road
Mount Laurel, NJ 08054
Phone: 856.840.3443
www.tdgsplanning.com

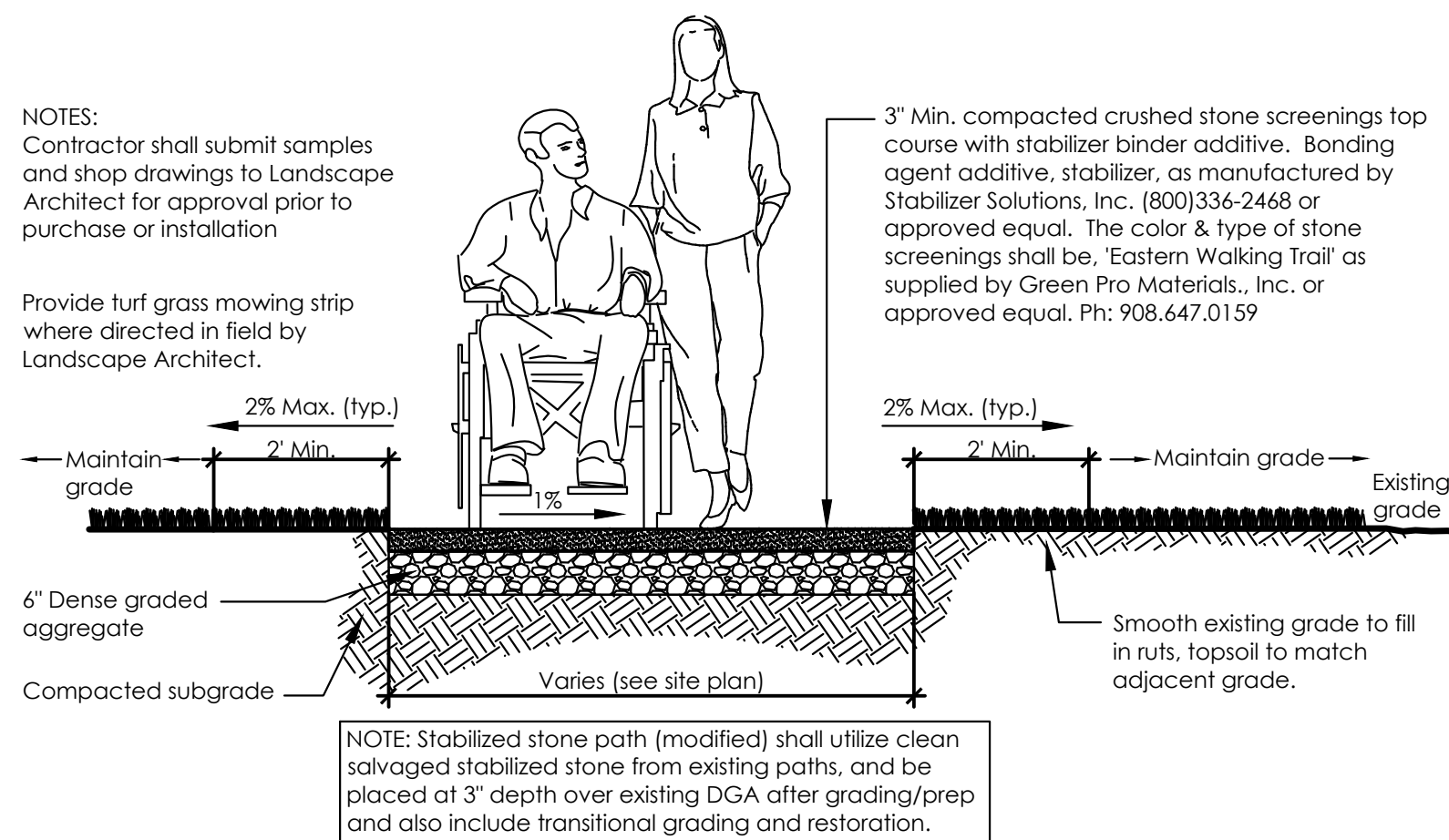
Planning
Landscape Architecture
Municipal Consulting
Parks and Recreation

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Scott D. Taylor, LLA & PP
NJ Licensed
Landscape Architect #AS000681

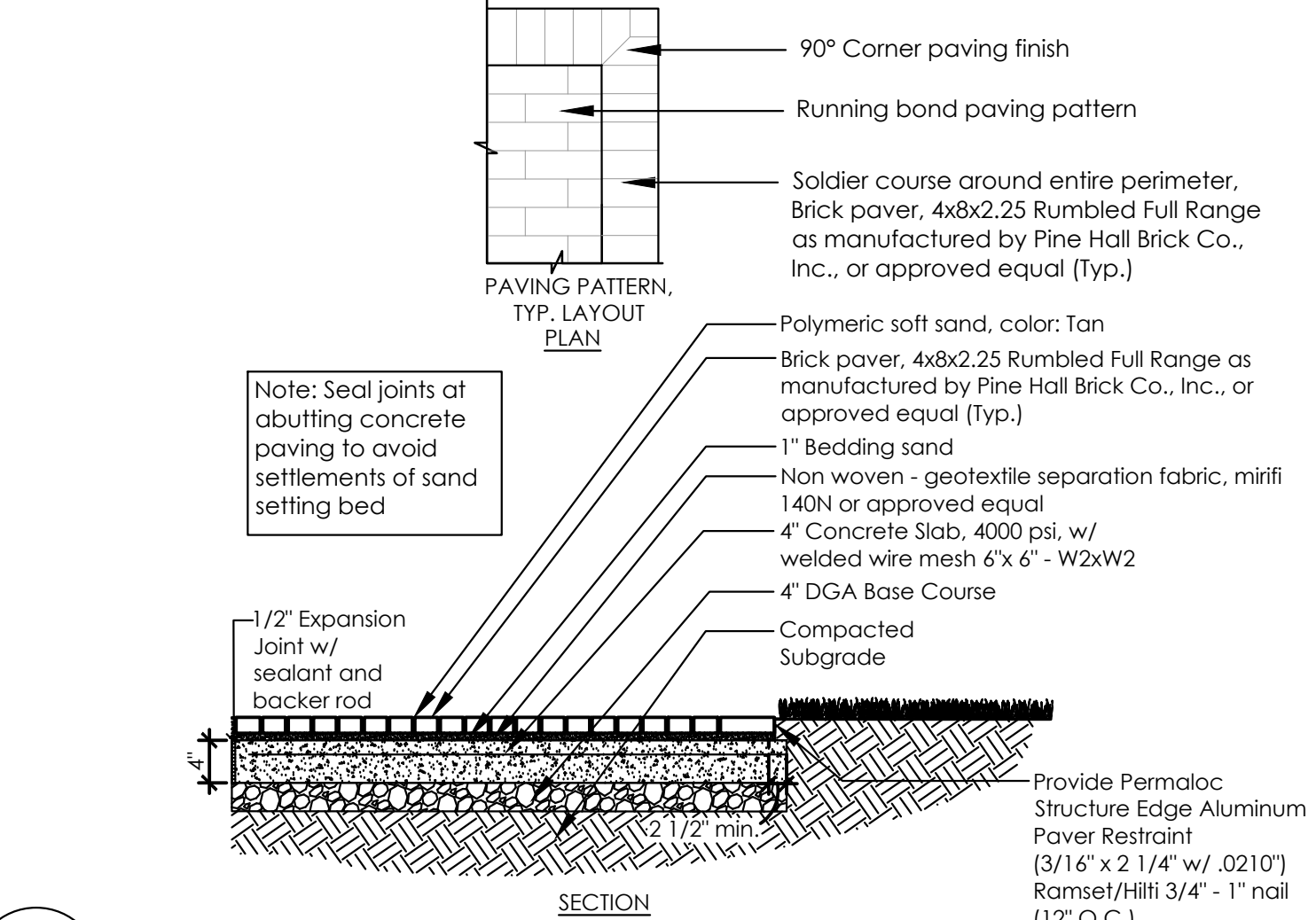
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DATE: 06.30.2026 JOB NO:



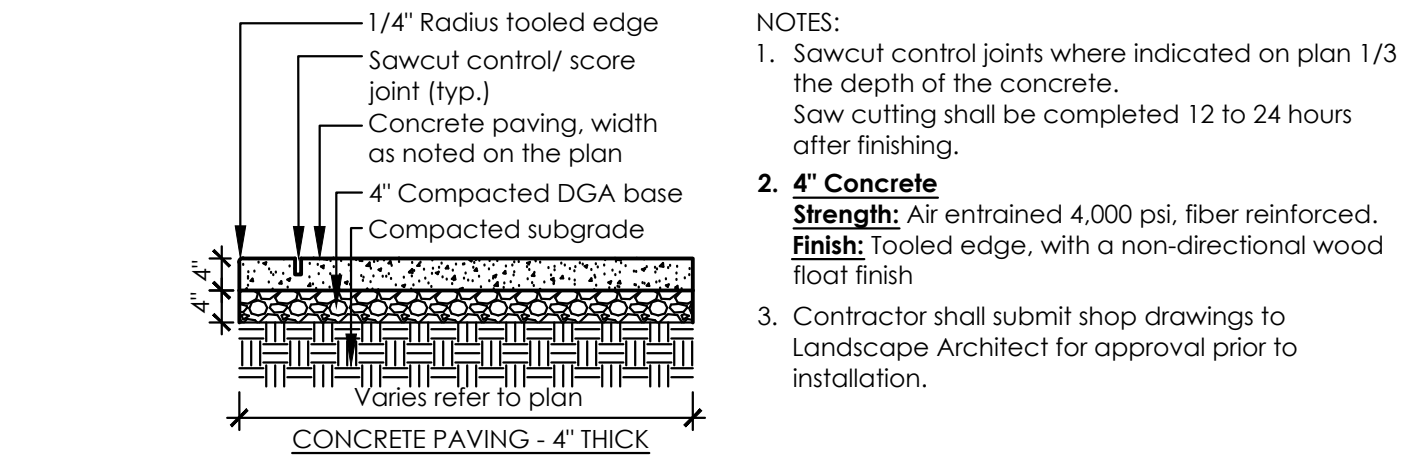
1 STABILIZED STONE PATHS

SD-1 SCALE: 1/2" = 1'-0"



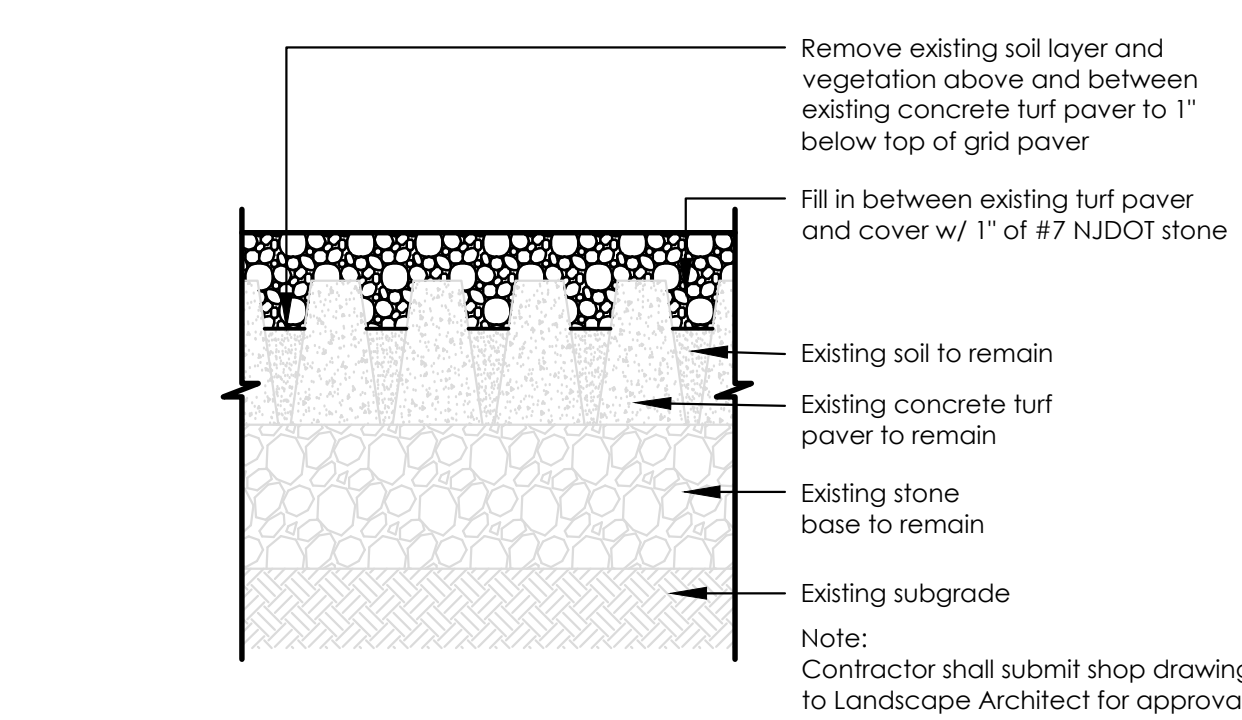
2 BRICK PAVERS

SD-1 SCALE: 1/2" = 1'-0"



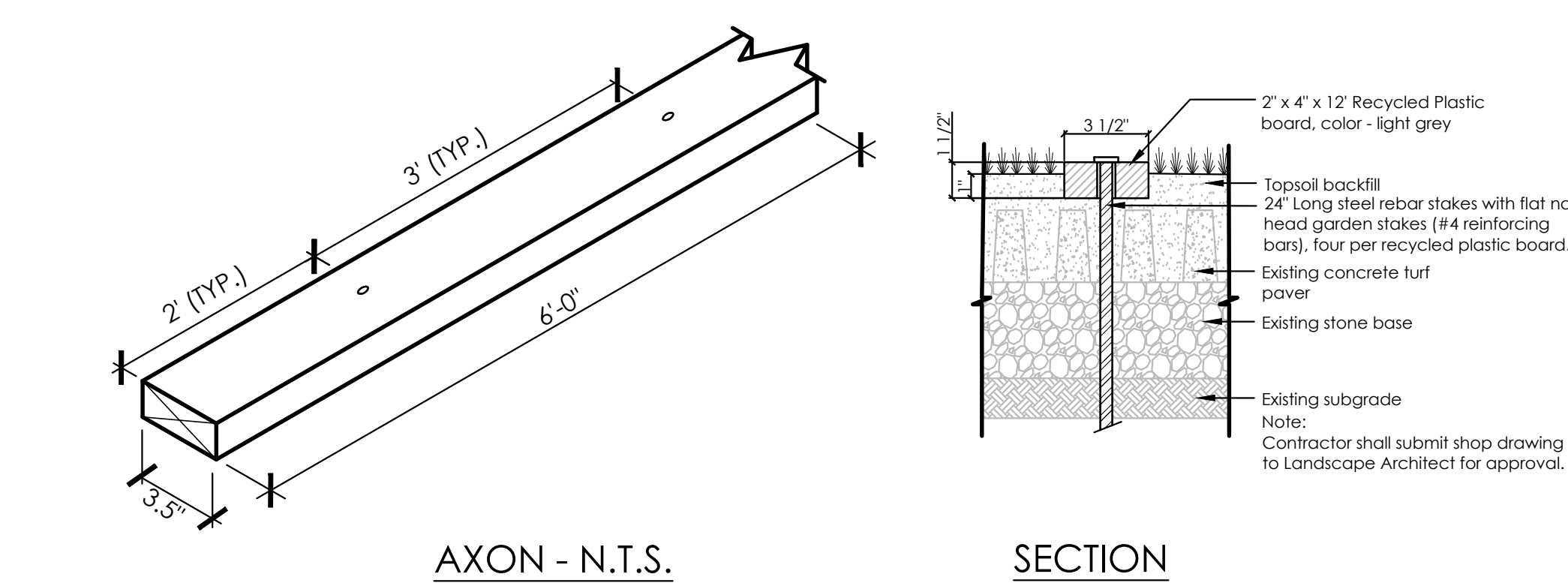
3 CONCRETE PAVING

SD-1 SCALE: 1/2" = 1'-0"



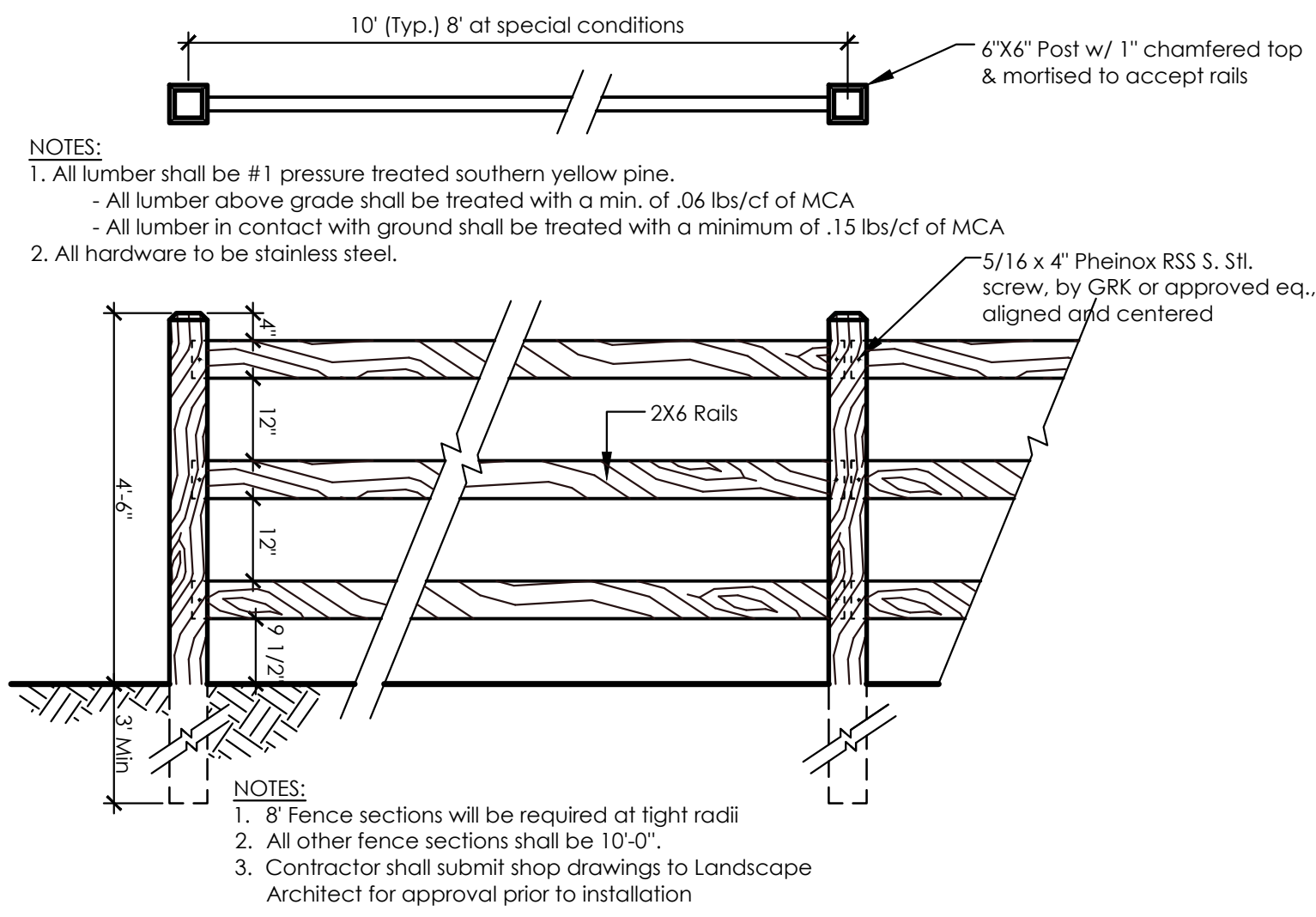
4 STONE AT TURF PAVERS

SD-1 SCALE: N.T.S.



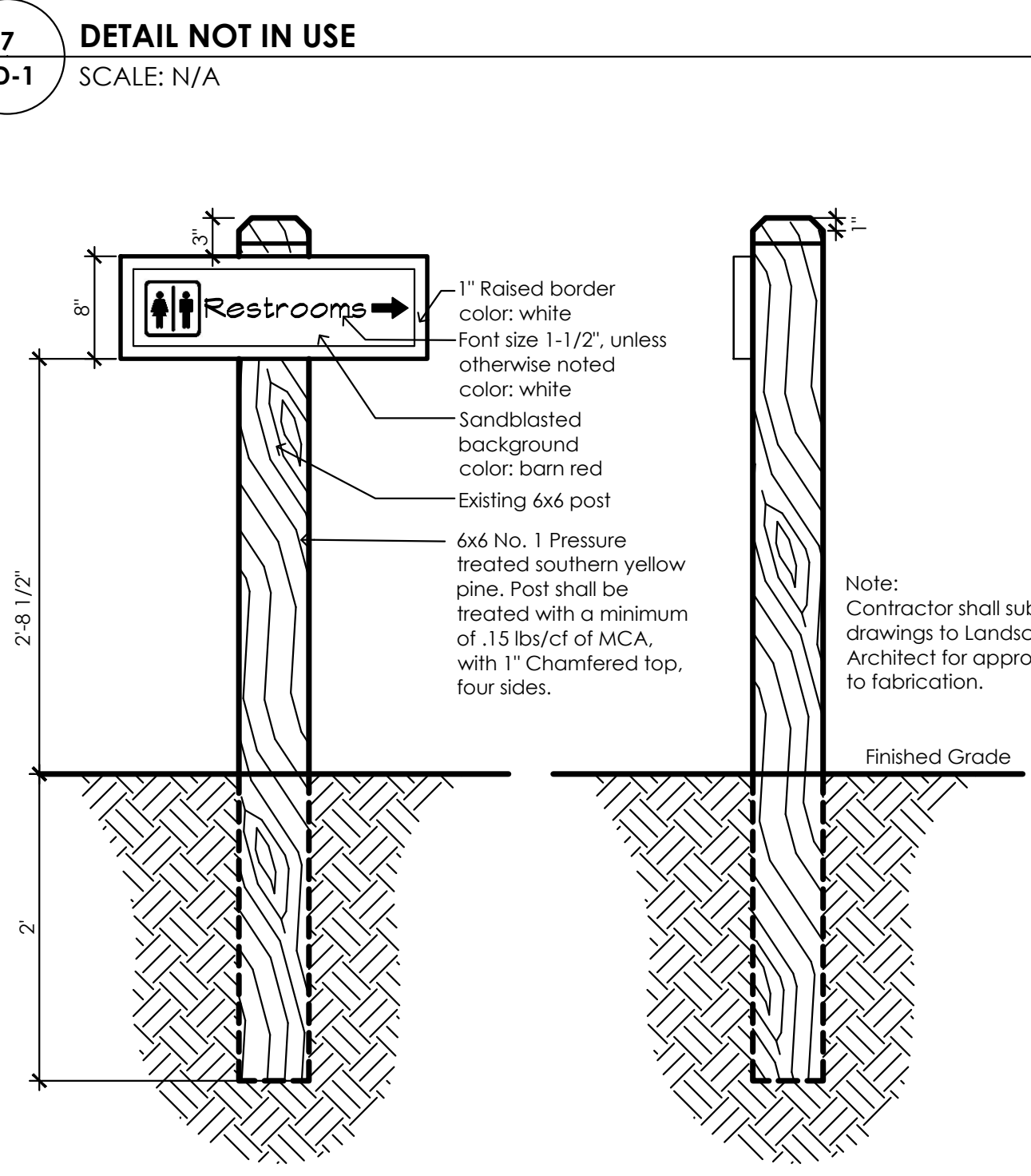
5 RECYCLED PLASTIC PARKING STRIP

SD-1 SCALE: 1.5" = 1'-0"



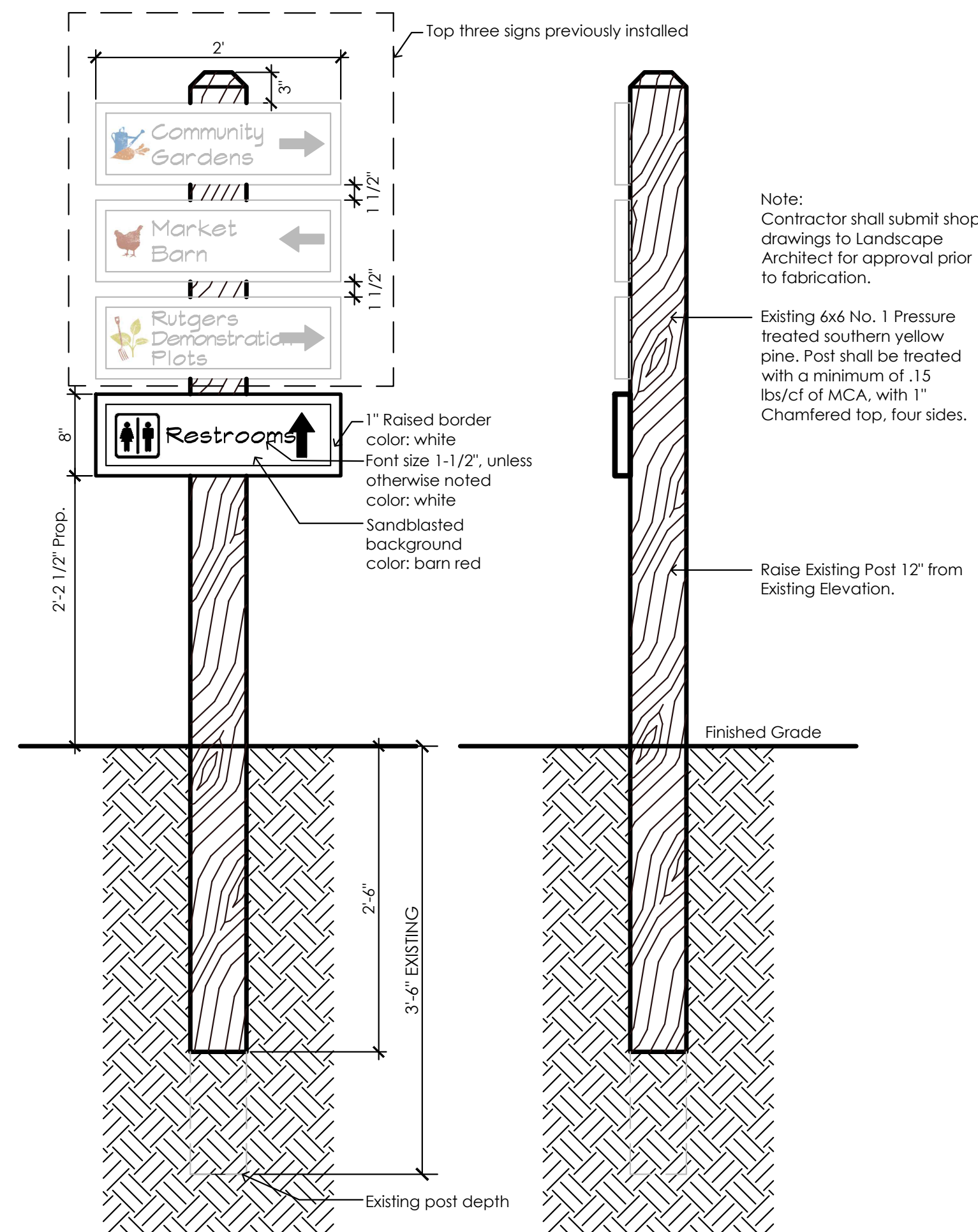
6 3 RAIL FENCE

SD-1 SCALE: 1/2" = 1'-0"



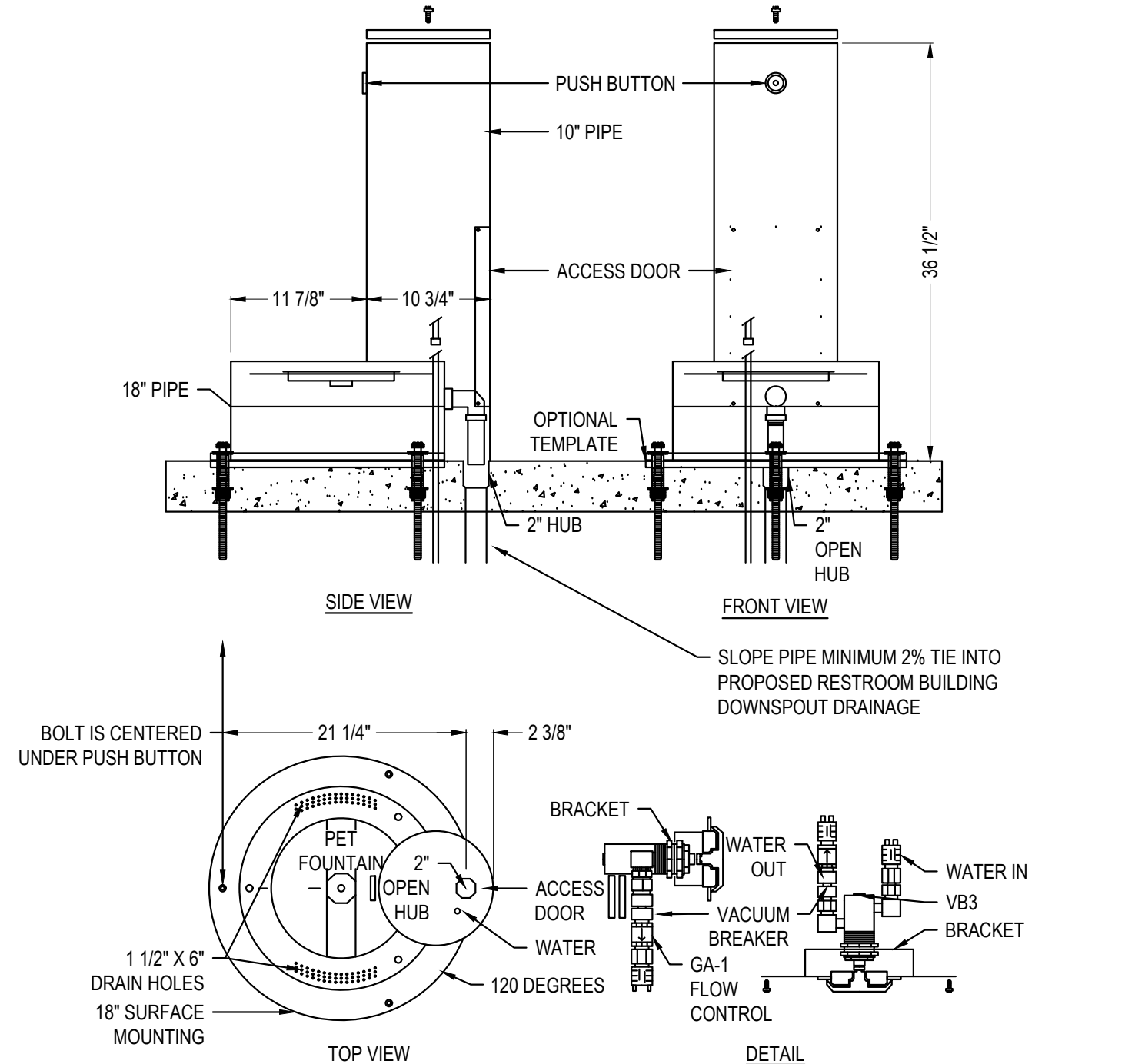
8 MOUNTED SITE SIGNAGE

SD-1 SCALE: 1/2" = 1'-0"



9 MOUNTED DIRECTIONAL SIGN

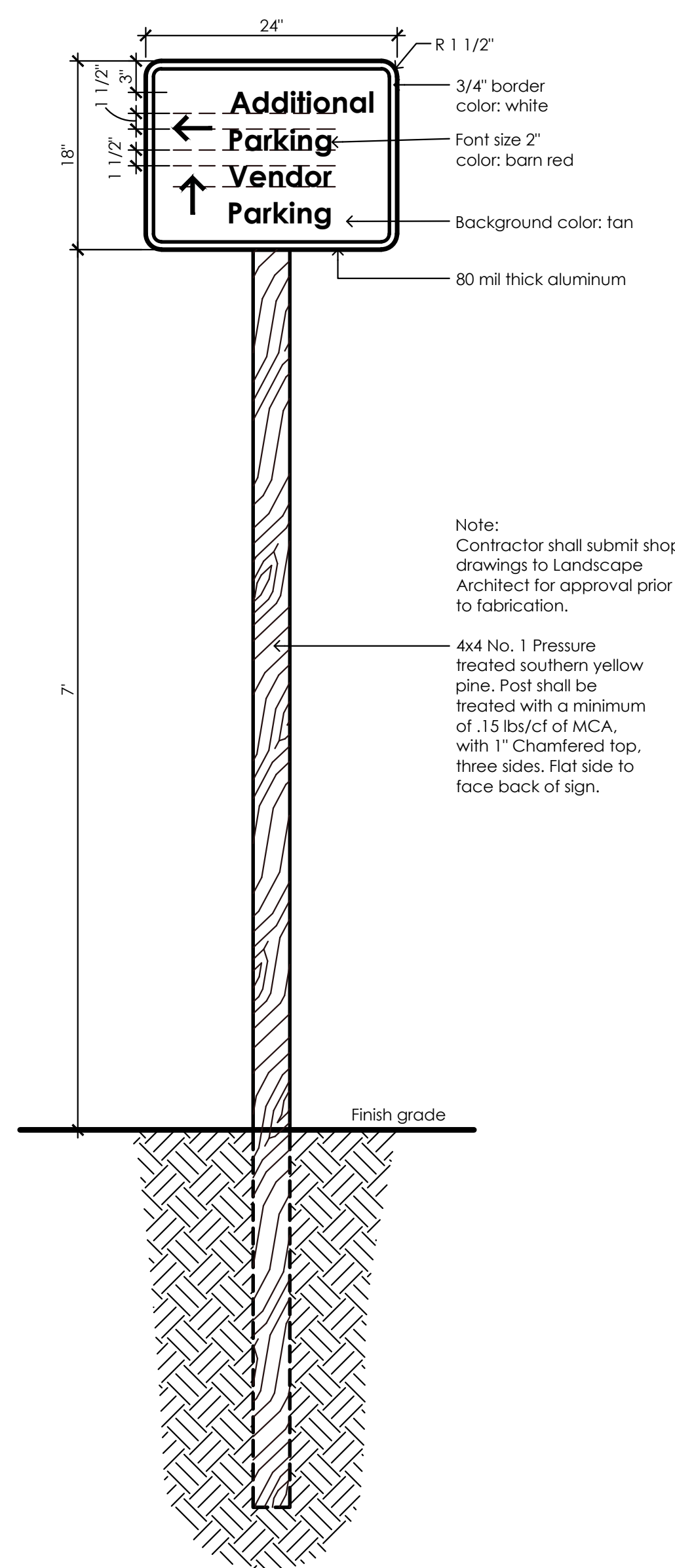
SD-1 SCALE: 1" = 1'-0"



NOTES:
1. OUTDOOR PET FOUNTAIN BY MCF MOST DEPENDABLE FOUNTAINS, INC.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
6. CONTRACTORS NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 3354-9.96.

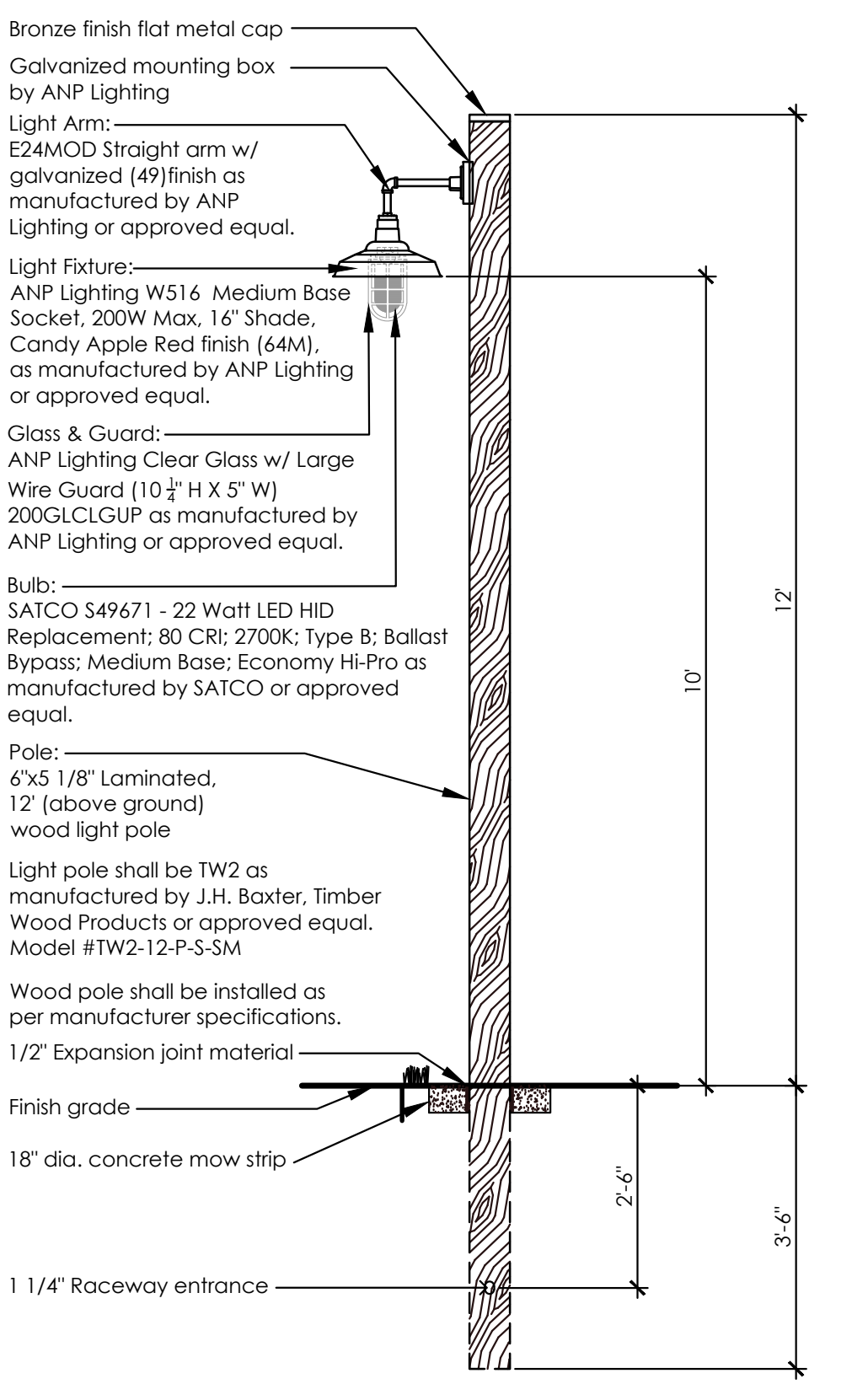
10 PET WATER FOUNTAIN

SD-1 SCALE: 1/2" = 1'-0"



11 VEHICULAR DIRECTIONAL SIGNAGE

SD-1 SCALE: 1/2" = 1'-0"



12 LIGHT FIXTURE ON POLE

SD-1 SCALE: 1/2" = 1'-0"

BURLINGTON COUNTY AGRICULTURAL CENTER
2026 IMPROVEMENTS
500 CENTERTON ROAD, MOORESTOWN, NJ
BLOCK 8801, LOT 2,3 & 3Q FARM
MOORESTOWN TWP., BURLINGTON COUNTY, NEW JERSEY

SITE DETAILS

No.	Date	Revision

taylor design group

131 Hartford Road
Mount Laurel, NJ 08054
Phone: 856.810.3443
www.tdsdesign.com

Planning
Landscape Architecture
Municipal Consulting
Parks and Recreation

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Scott D. Taylor, LLA & PP
NJ Licensed
Landscape Architect #A5000681

SD-1

SCALE: AS NOTED
DATE: 06.30.2026
DRAWN BY: CT
JOB NO:

**BURLINGTON COUNTY AGRICULTURAL CENTER
2026 IMPROVEMENTS
500 CENTERTON ROAD, MOORESTOWN, NJ
BLOCK 8801, LOT 2,3 & 3Q FARM
MOORESTOWN TWP, BURLINGTON COUNTY, NEW JERSEY**

No.	Date	Revision



131 Hartford Road
Mount Laurel, NJ 08054
Phone: 856.810.3443
www.tdgpplanning.com

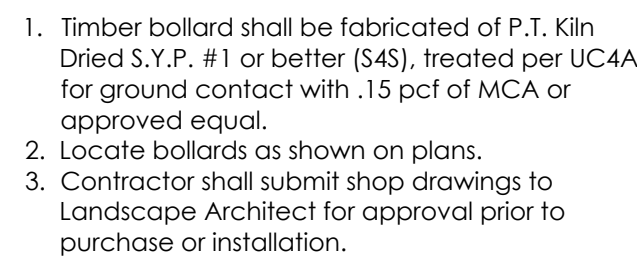
**Planning
Landscape Architecture
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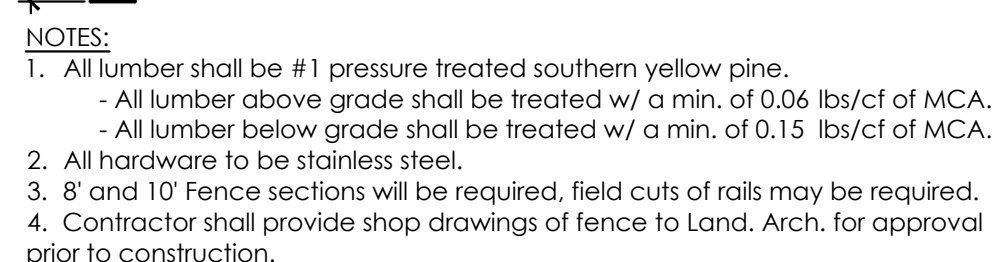
Scott D. Taylor, LLA & PP
NJ Licensed
Landscape Architect #AS000681

SD-2

SCALE: AS NOTED	DRAWN BY: CT
DATE: 06/30/2026	JOB NO:

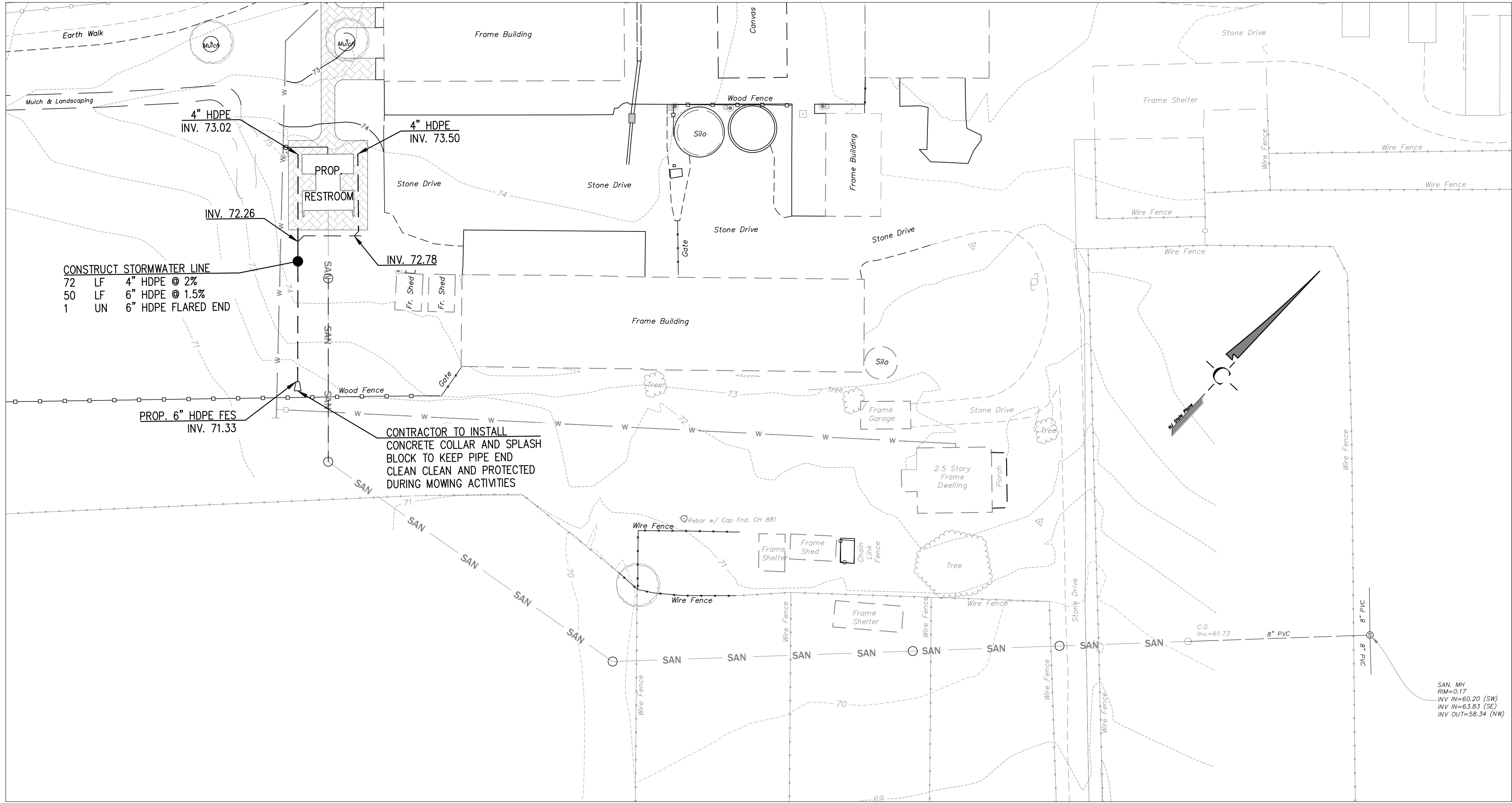
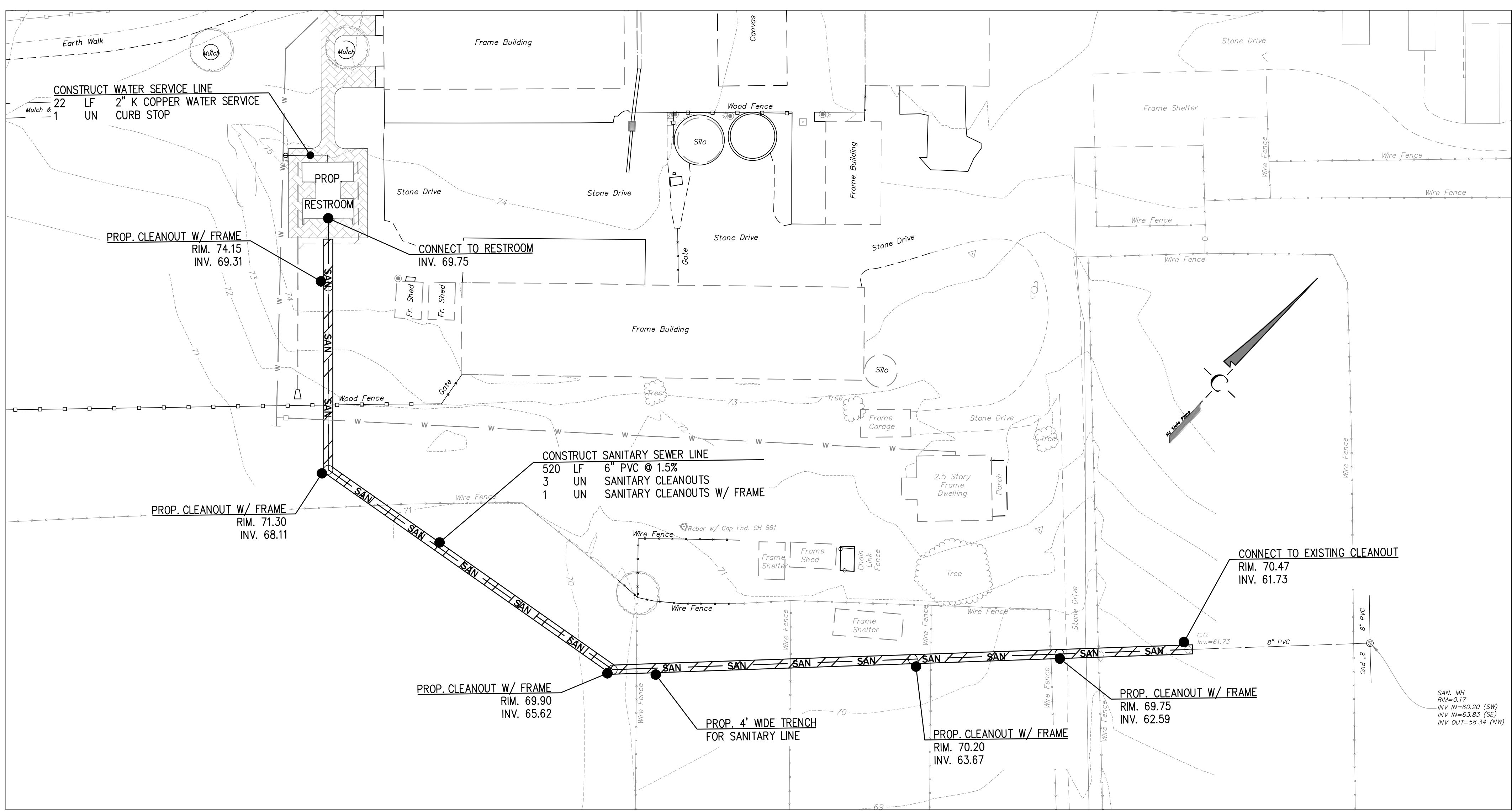


1 **TIMBER BOLLARD**
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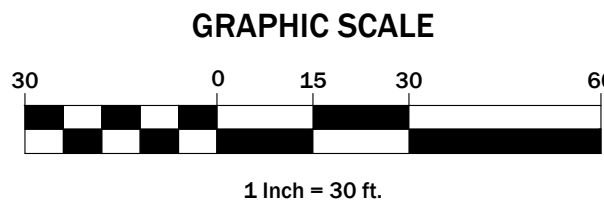
2 **TRASH ENCLOSURE**
SD-2 SCALE: 1/2" = 1'-0"



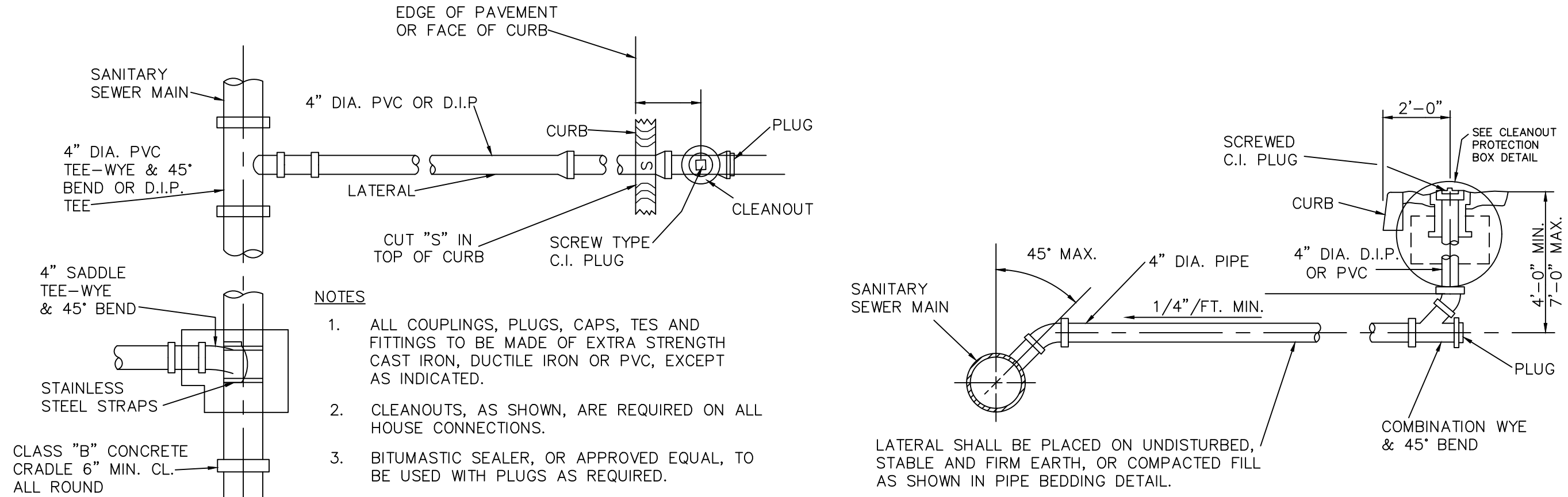


SUMMARY OF QUANTITIES

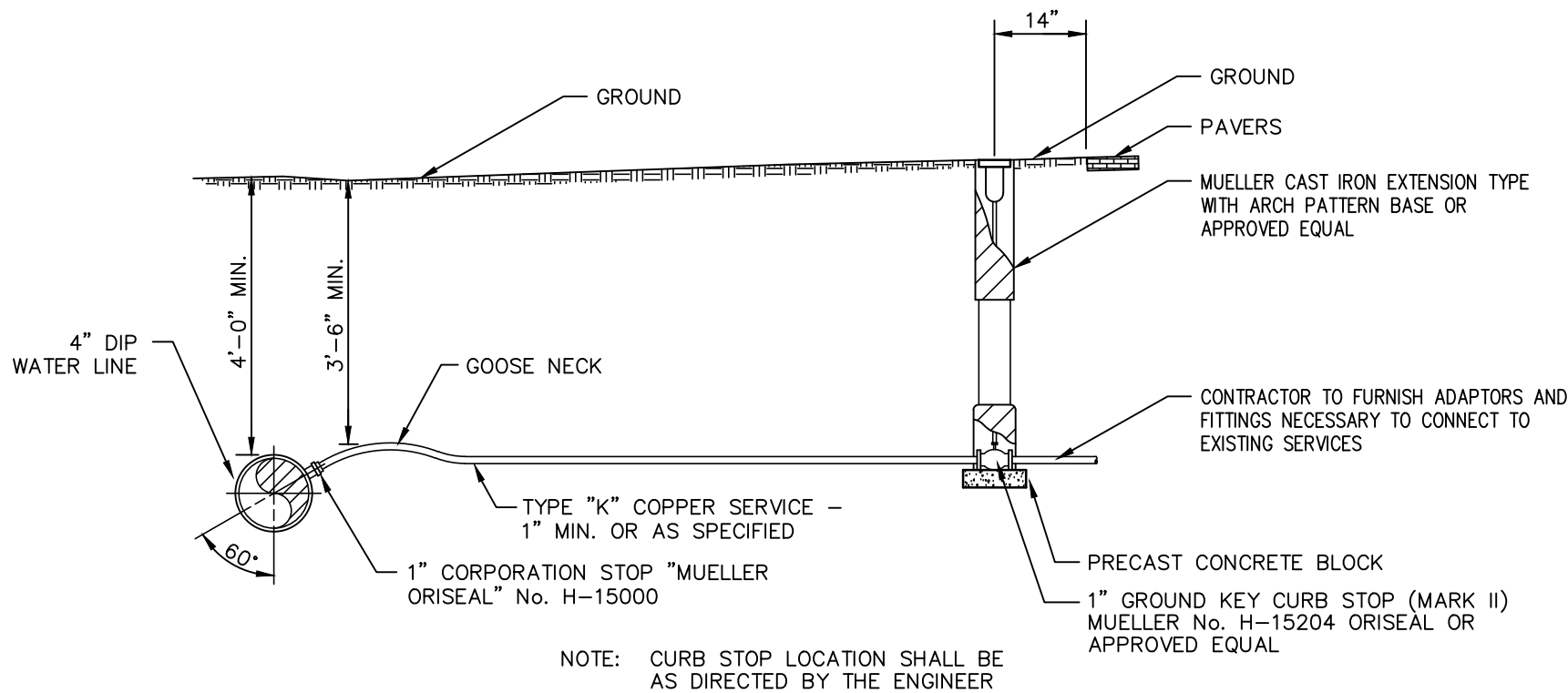
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22	LF	2" K. COPPER WATER SERVICE
50	LF	6" HDPE @ 1% SLOPE
72	LF	4" HDPE @ 2% SLOPE
5	UN	SANITARY CLEANOUTS WITH FRAME
1	UN	CURB STOP
1	UN	6" HDPE FES W/ CONC. COLLAR
1	UN	SPLASH BLOCK



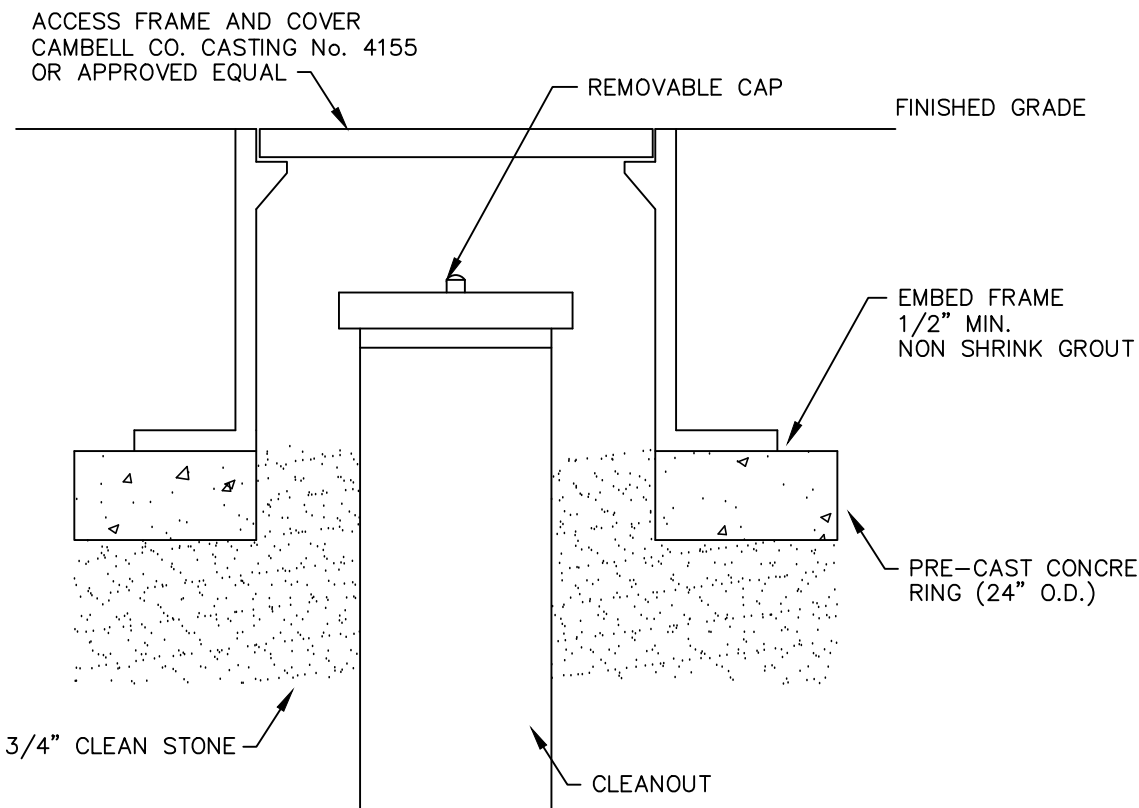
REFER TO SHEET SP-2 FOR
ADDITIONAL GRADING INFORMATION.



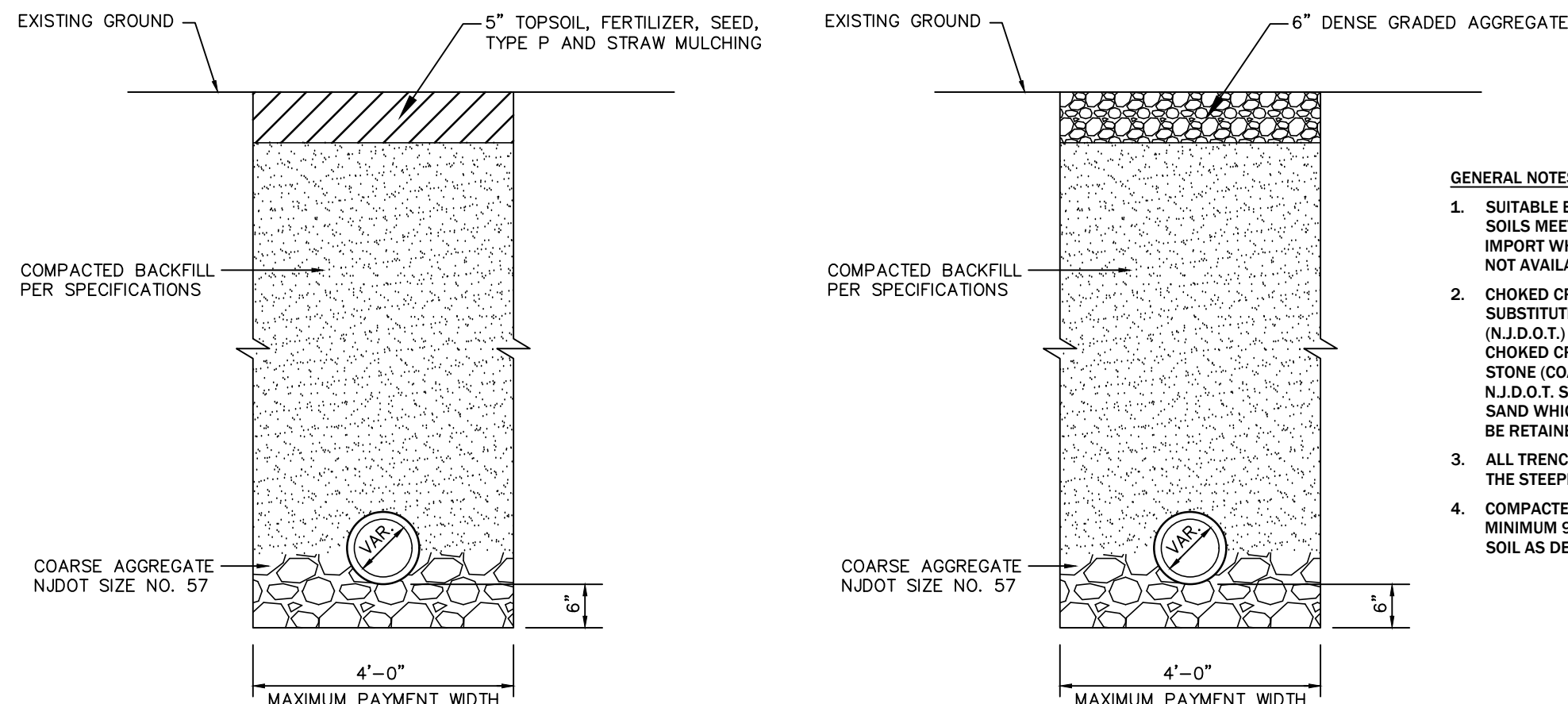
PLAN
ELEVATION
TYPICAL 4" SANITARY SEWER CLEANOUT/LATERAL CONNECTION DETAIL
N.T.S.



WATER SERVICE CONNECTION DETAIL
N.T.S.



CLEANOUT FRAME AND
COVER DETAIL
N.T.S.



TRENCH REPAIR RESTORATION
(GRASS AREAS)
N.T.S.

TRENCH REPAIR RESTORATION
(STONE DRIVEWAY)
N.T.S.

SANITARY SEWER
PLAN



BURLINGTON COUNTY AGRICULTURAL CENTER
2026 SANITARY IMPROVEMENTS
500 CENTERON ROAD, MOORESTOWN, NJ
BLOCK 8801, LOT 2.3 & 3Q FARM
MOORESTOWN TWP, BURLINGTON COUNTY, NEW JERSEY

Date	Revisions

taylor
design
group

131 Hartford Road
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Phone: 856.810.3443
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Scott D. Taylor, LLA & PP
NJ Licensed
Landscape Architect #A5000681

C-1

SCALE: 1"=30'
DATE: 06.30.2026
DRAWN BY: MJR
JOB NO:

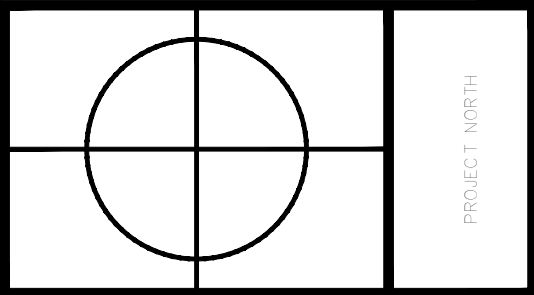
TOILET ROOM BUILDING
500 CENTERTON ROAD, MOORESTOWN, NJ 08057

OSK DESIGN PARTNERS, PA
ARCHITECTS & LAND PLANNERS



47 WHITE HORSE PIKE
COLLINGSWOOD, NEW JERSEY 08107
PHONE: (859-854-0580) FAX: (859-854-0593)
9616 STONE HARBOR AVENUE, SUITE 201
STONE HARBOR, NEW JERSEY 08247
WEB: www.oskdp.com

FOUNDER: JOHN OLIVERI (1966-1996)
PRINCIPAL: PAULA A. VITS, AIA, AIA, LEED AP, NCARB
PRINCIPAL: JAMES J. BLACKACRAN, JR., AIA, NCARB
PRINCIPAL: GREGORY S. BLACKACRAN, JR., AIA, NCARB
PARTNER: GEORGE S. LELLIOTT, AIA, NCARB, LEED AP
SENIOR ASSOCIATE: STEVEN J. BIRKHEAD, AIA, NCARB
SENIOR ASSOCIATE: ALISON J. WILSON, AIA, NCARB
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PROJECT: BURLINGTON COUNTY AGRICULTURE CENTER, 2026 IMPROVEMENTS
500 CENTERTON ROAD, BLOCK 880, LOT 2, 3, & 3Q FARM
MOORESTOWN TOWNSHIP, BURLINGTON COUNTY, NEW JERSEY

COVER SHEET

DWG. TITLE

CONTRACTOR SHALL CHECK AND
VERIFY ALL DIMENSIONS AND
FIELD CONDITIONS PRIOR TO
STARTING CONSTRUCTION

J. Bedum

GERALD S. BLACKMAN, JR.
NU LICENSE # 17113

NO.	DESCRIPTION	DATE
REVISION SCHEDULE		

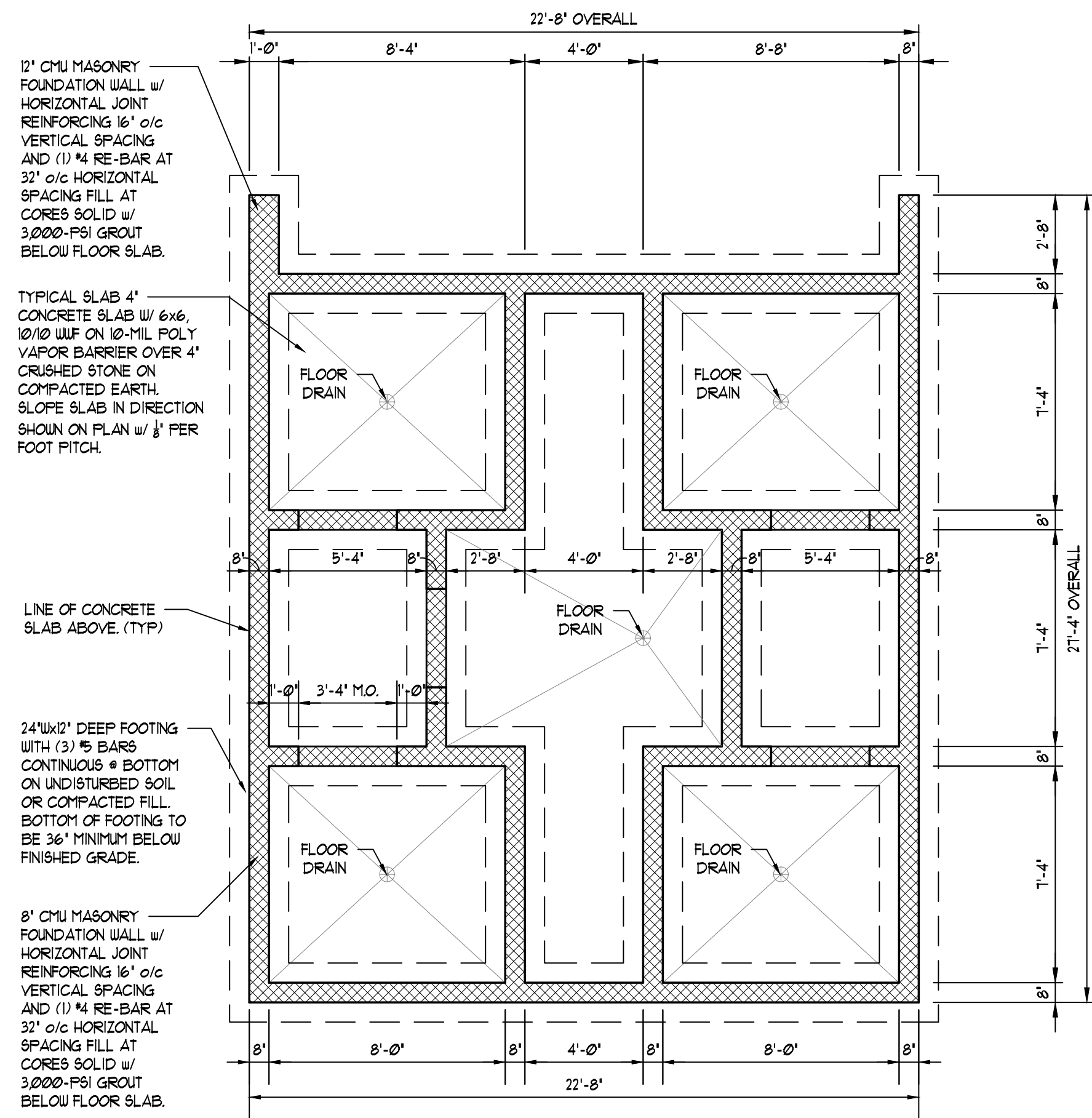
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CHECKED BY:	JSB
DATE:	06/29/2026
SCALE:	NTS

JOB NO.	151722
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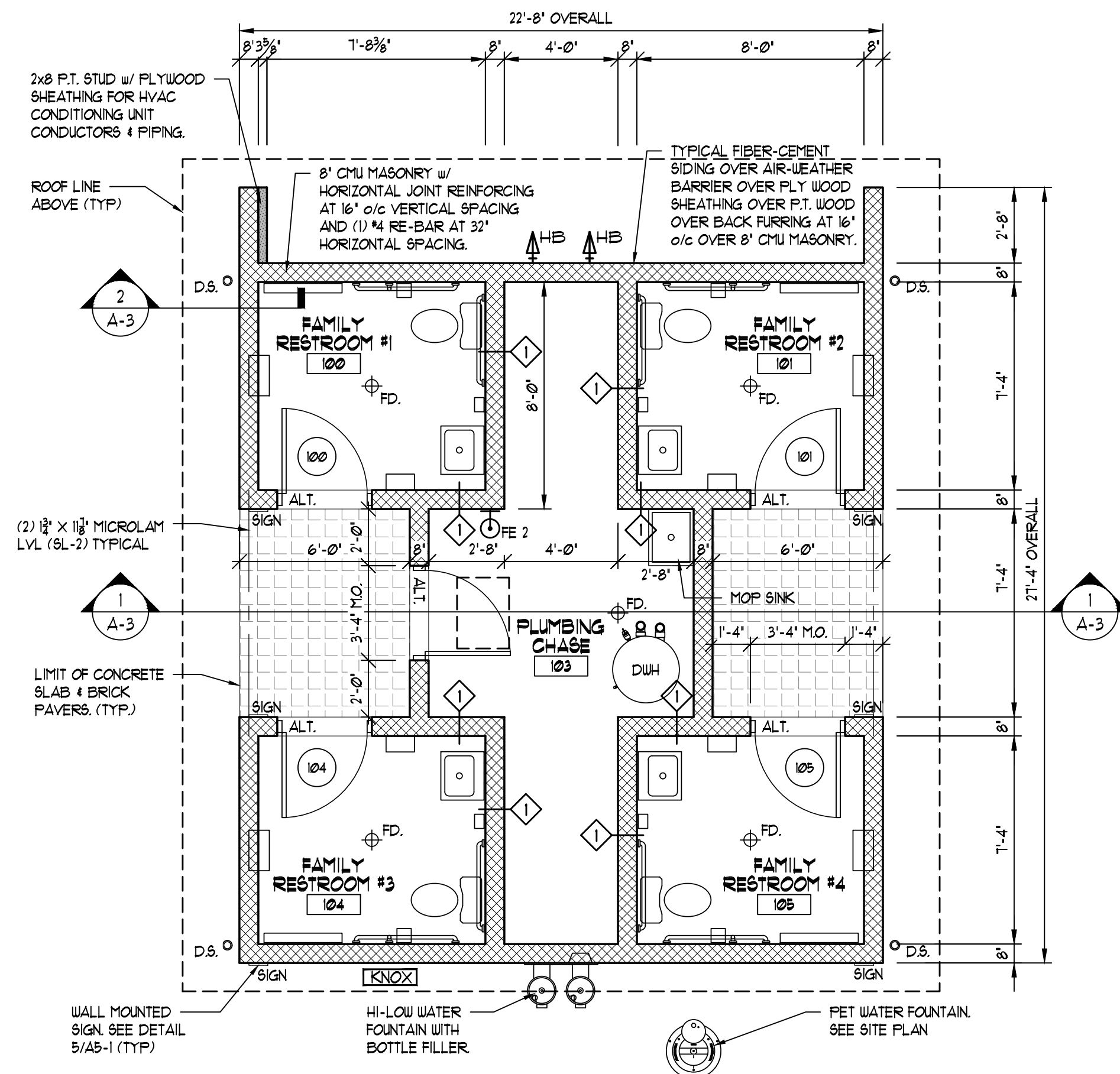
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ISSUED FOR BIDDING	1	06/29/26
<u>DRAWING ISSUE</u>	<u>No.</u>	<u>DATE</u>

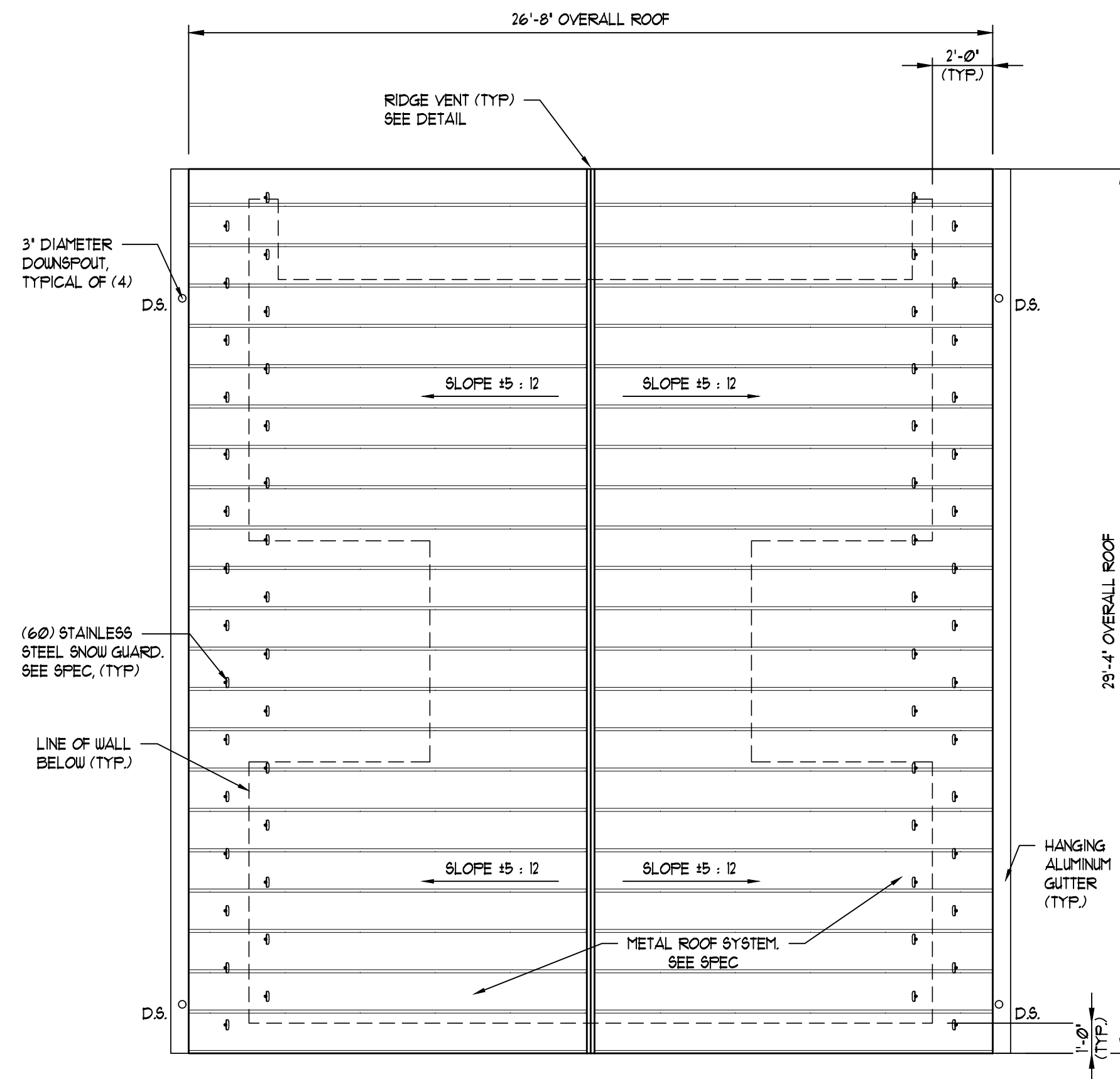
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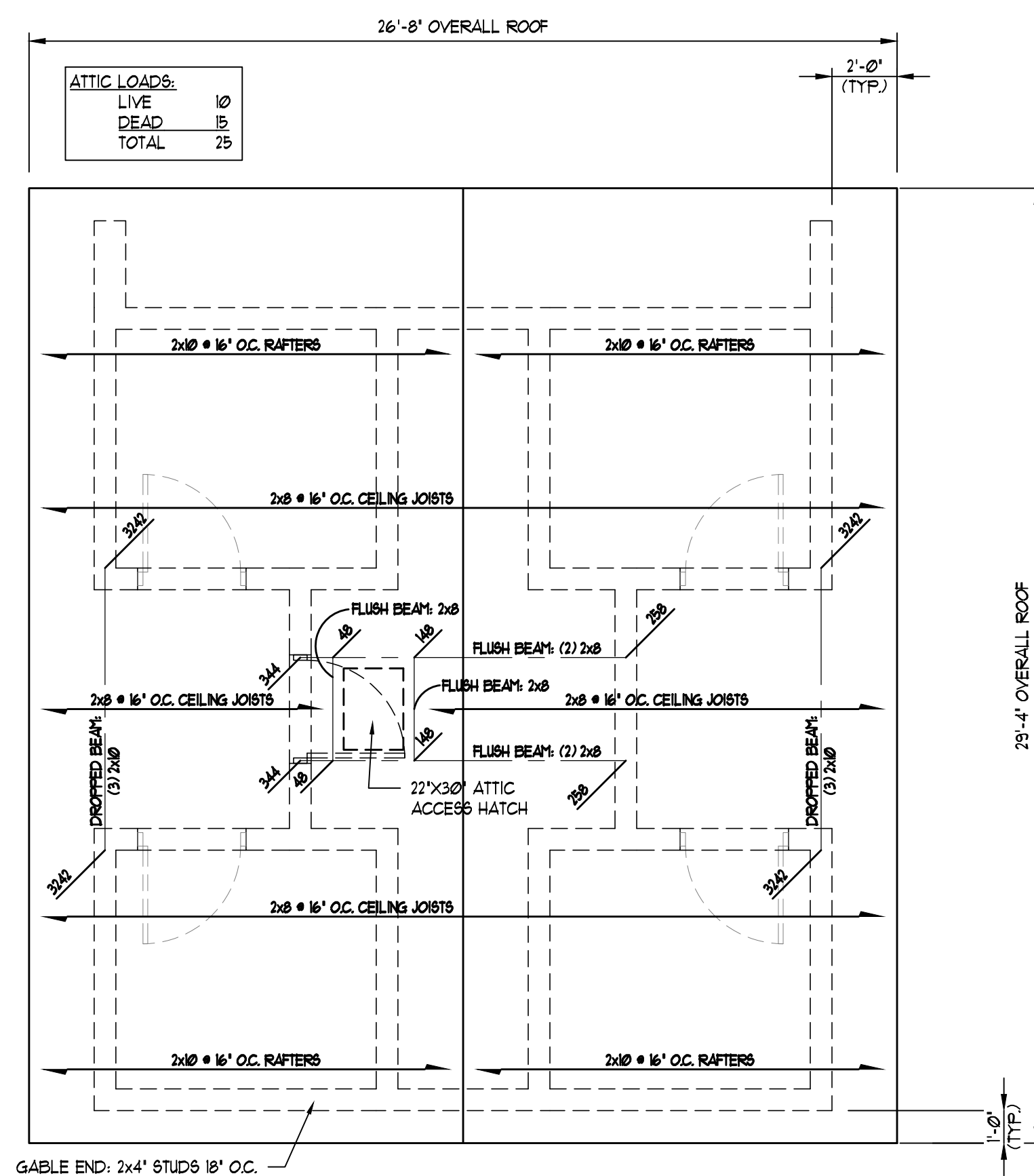
1 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



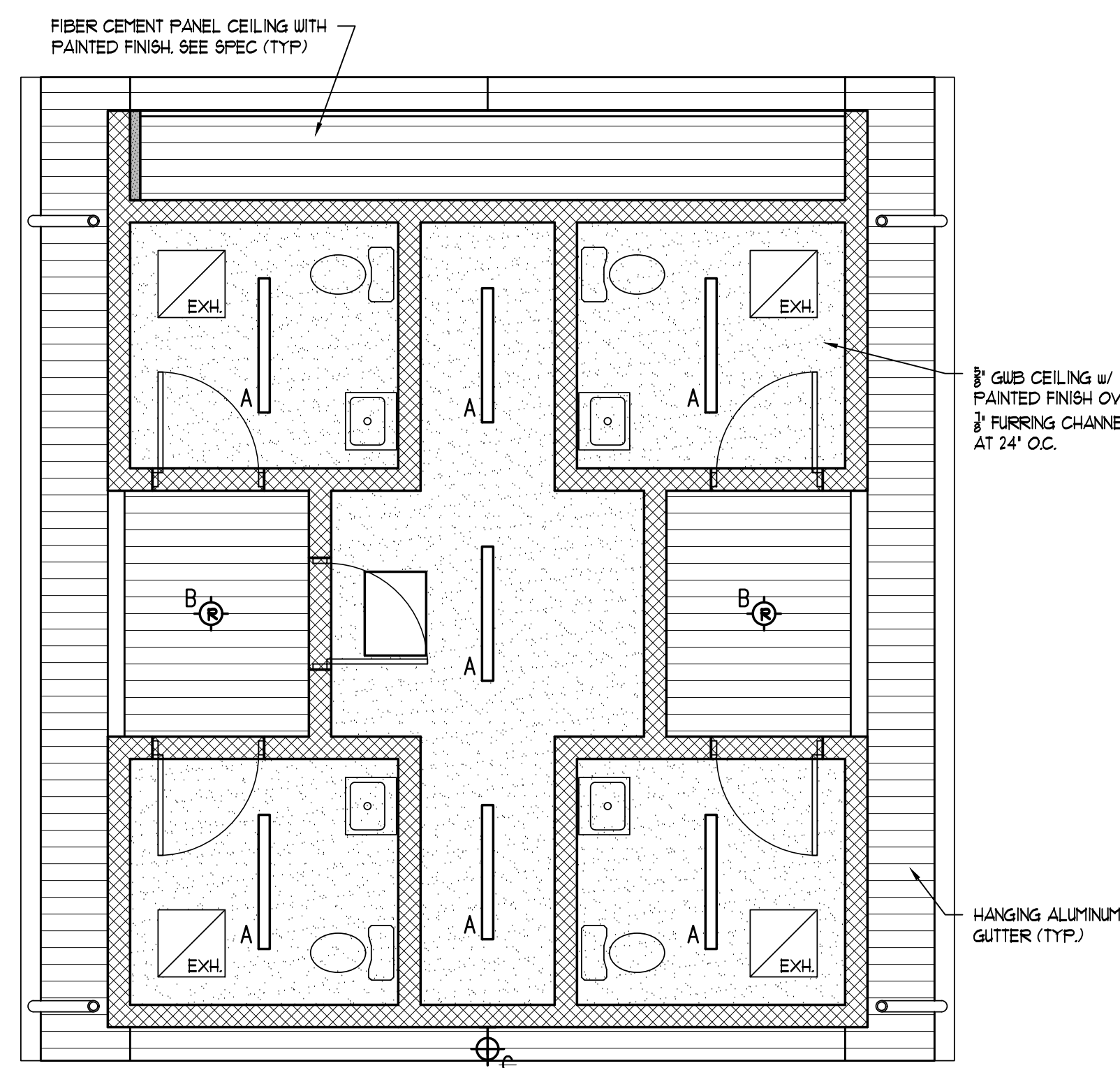
2 FLOOR PLAN
SCALE: 1/4" = 1'-0"



3 ROOF PLAN
SCALE: 1/4" = 1'-0"



4 FRAMING PLAN
SCALE: 1/4" = 1'-0"

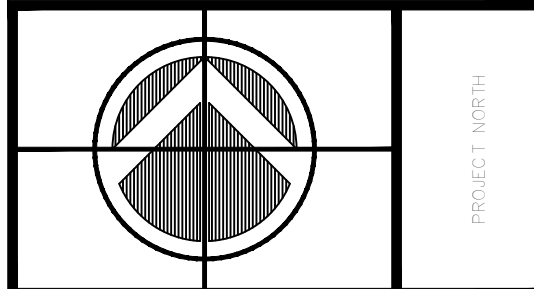


5 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

SYMBOLS	
	FLOOR DRAIN w/ INLET GRATE
	ALUMINUM THRESHOLD
	HOSE BIBB, FROST PROOF AT EXTERIOR LOCATIONS
	3" DIAMETER DOWNSPOUT FROM GUTTER, ABS
	WALL MOUNTED FIRE EXTINGUISHER w/ WALL MOUNT BRACKET AND SIGN
	KNOX BOX RAPID ENTRY SYSTEM #5264, SURFACE-MTD, ALUMINUM w/ TAMPER SWITCH

RCP SYMBOLS	
	LINEAR LED LIGHT FIXTURE, CEILING MOUNTED
	EXTERIOR LED RECESSED LIGHT FIXTURE, CEILING MOUNTED
	EXTERIOR LED LIGHT FIXTURE, MOUNTING HT. 9'-6" AFF. TO BOTTOM
	NEW HVAC EXHAUST GRILLE, VERIFY & COORDINATE ALL LOCATIONS

NOTE: ARCHITECTURAL DRAWINGS ARE FOR CEILING LAYOUT PURPOSES. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR INSTALLATION INFORMATION THAT SUPERCEDES ARCHITECTURAL DRAWINGS.



CONSULTANT'S SEAL AND
STAMP REQUIRED FOR ALL
FULL COMPLETION DRAWINGS
J. B. Balm
CECILIA S. BLOOMMAN, AIA
REGISTERED ARCHITECT # 17173

NO.	DESCRIPTION	DATE
REVISION SCHEDULE		

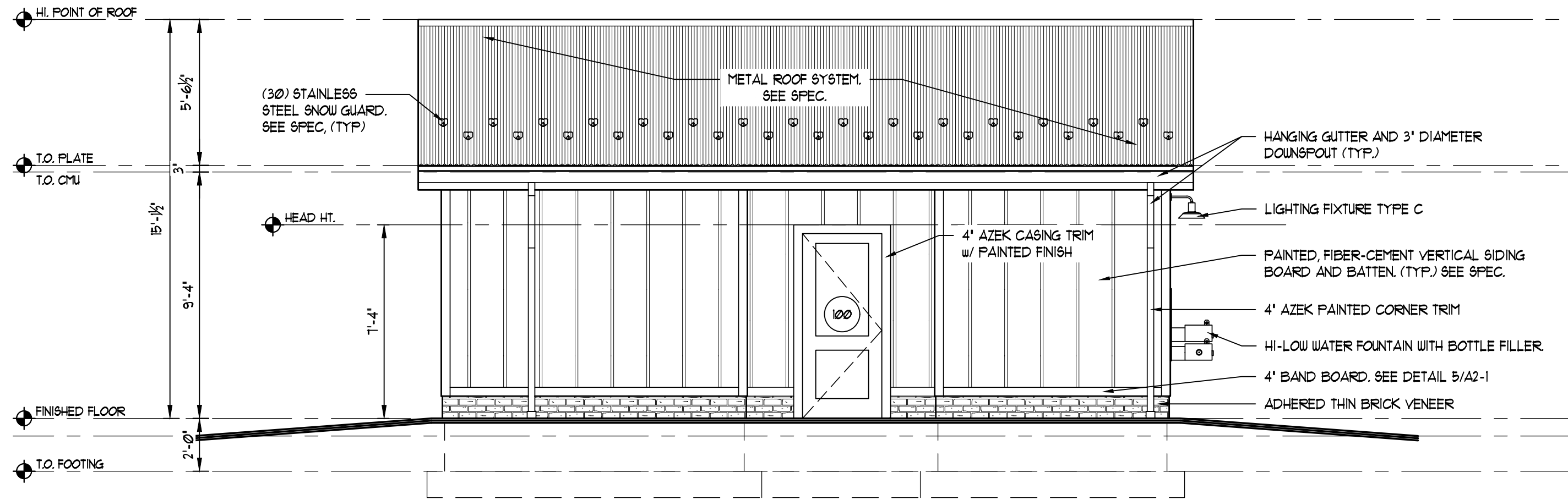
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CHECKED BY: JSB
DATE: 06/29/2016
SCALE: NTS

JOB NO. B1122

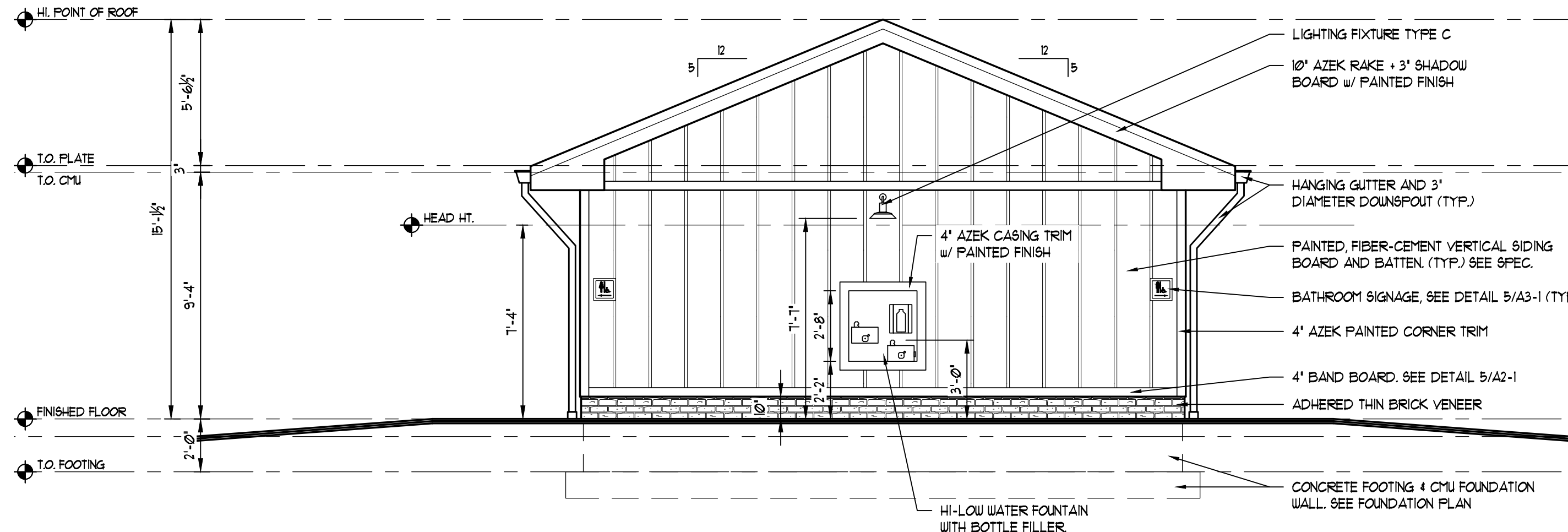
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ISSUED FOR BIDDING	1	06/29/16
DRAWING ISSUE	No.	DATE

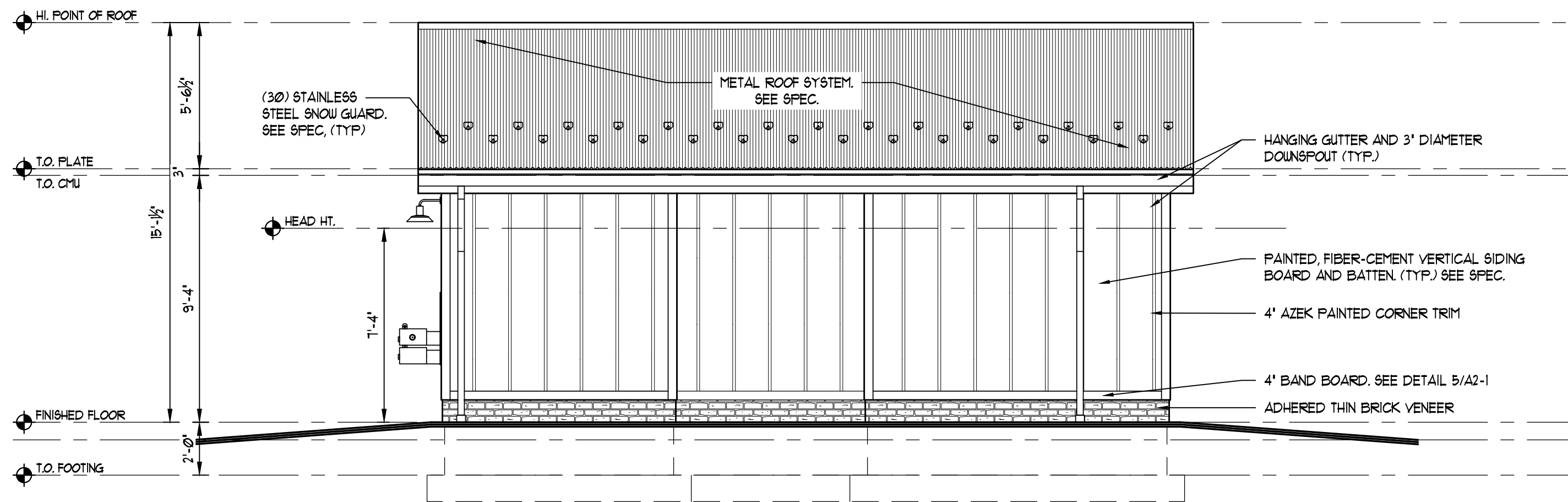
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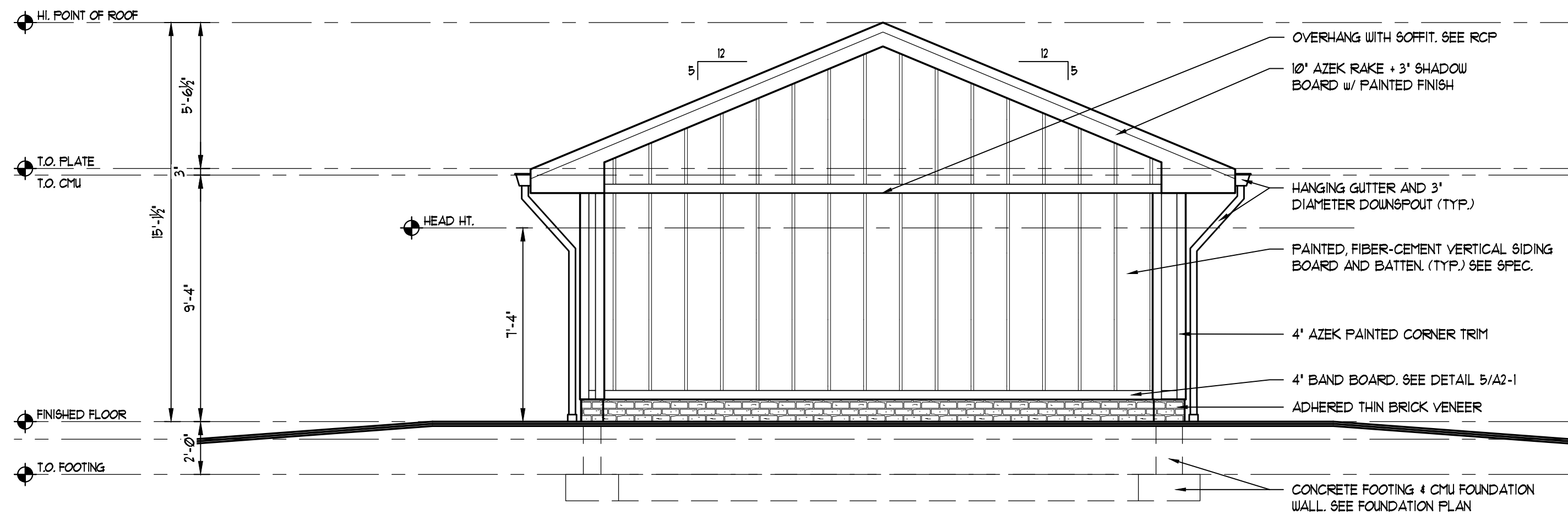
1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



2 WEST ELEVATION
SCALE: 1/4" = 1'-0"



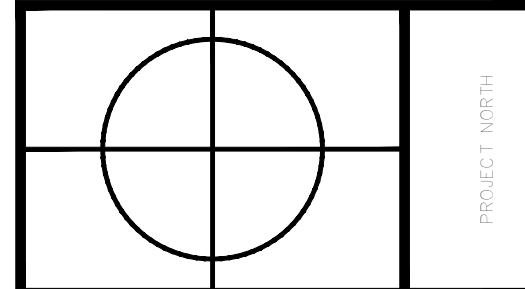
3 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



4 EAST ELEVATION
SCALE: 1/4" = 1'-0"

OSK DESIGN PARTNERS, PA
ARCHITECTS & LAND PLANNERS
475 WHITE HORSE PIKE
COLLINGSWOOD, NEW JERSEY 08107
PHONE: (856) 854-1580 FAX: (856) 854-1580 WEB: www.oskdp.com

FOUNDER: JOHN L. CAUTERU (1956-1999)
PRINCIPAL: PAUL A. KISS, AIA, P.E., NCARB
PRINCIPAL: JAMES G. ELLIOTT, AIA, NCARB, LEED AP
PARTNER: BRAD W. HARRIS, AIA, NCARB, LEED AP
REGISTERED: • DELAWARE • FLORIDA • GEORGIA • MARYLAND • MASSACHUSETTS
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PROJECT
BURLINGTON COUNTY AGRICULTURE CENTER, 2026 IMPROVEMENTS
500 CENTERTON ROAD, BLOCK 8801, LOT 2, 3 & 3Q FARM
MOORESTOWN TOWNSHIP, BURLINGTON COUNTY, NEW JERSEY

DWG. TITLE
ELEVATIONS

OSK DESIGN PARTNERS, PA
1000 ROUTE 100, SUITE 200
COLLINGSWOOD, NJ 08107
TEL: 856-854-1580
FAX: 856-854-1580
WWW.OSKDP.COM

J. Balam
JEREMY A. BALAM, AIA
NEW JERSEY LICENSE # 171715

NO.	DESCRIPTION	DATE

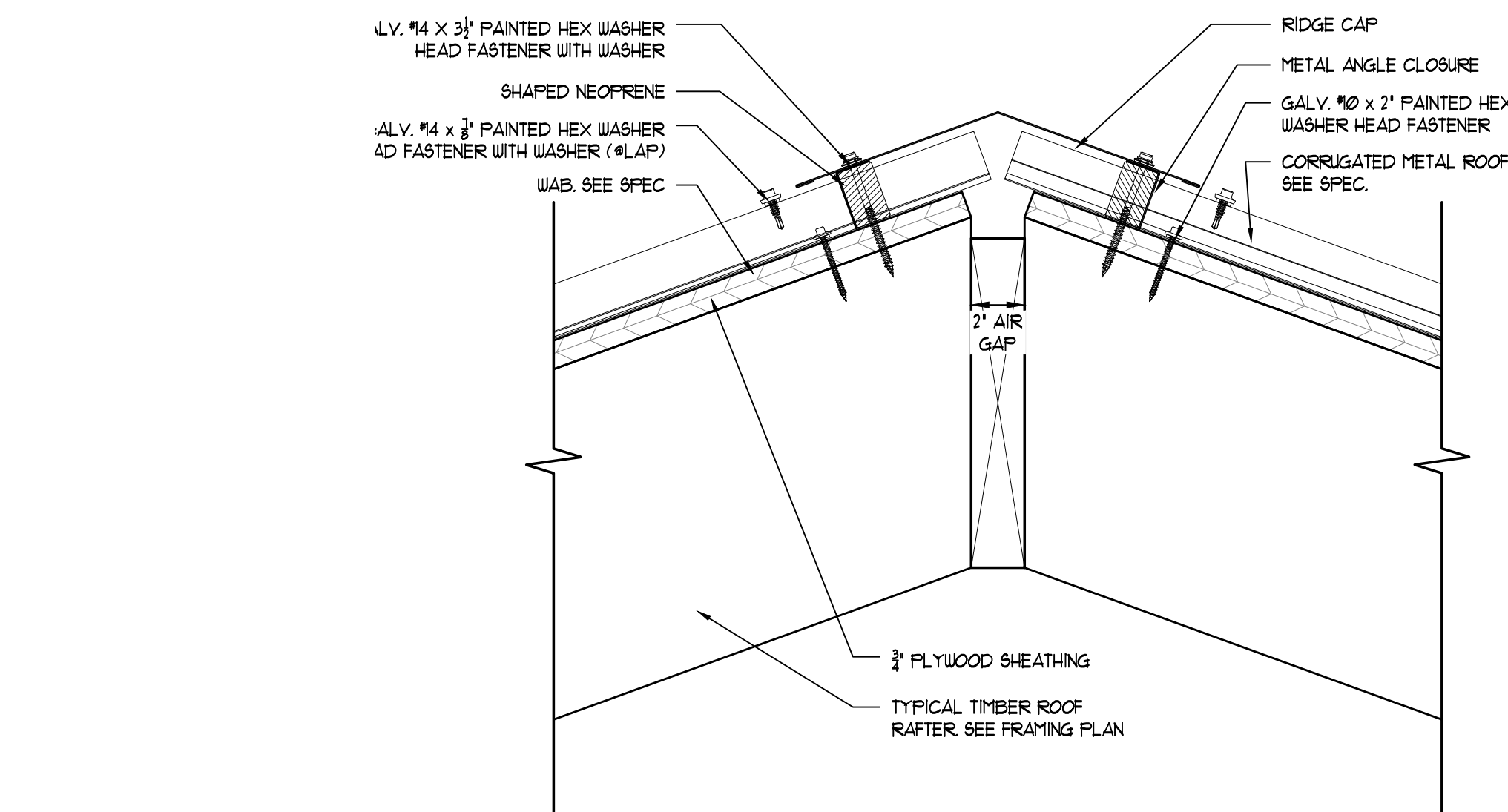
REVISION SCHEDULE

DRAWN BY:	DC
CHECKED BY:	JSB
DATE:	06/29/2026
SCALE:	NTS

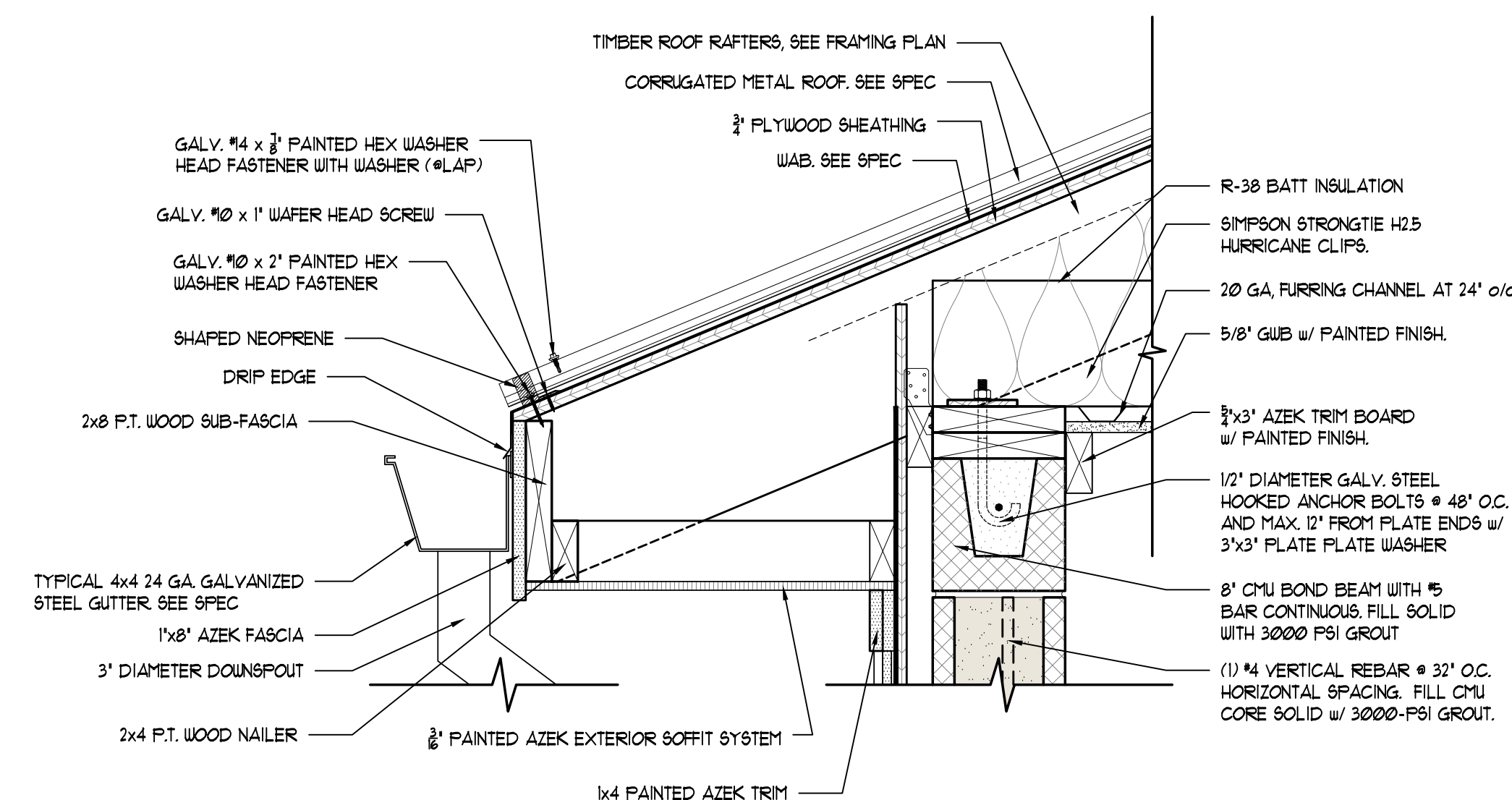
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ISSUED FOR BIDDING	1	06/29/26
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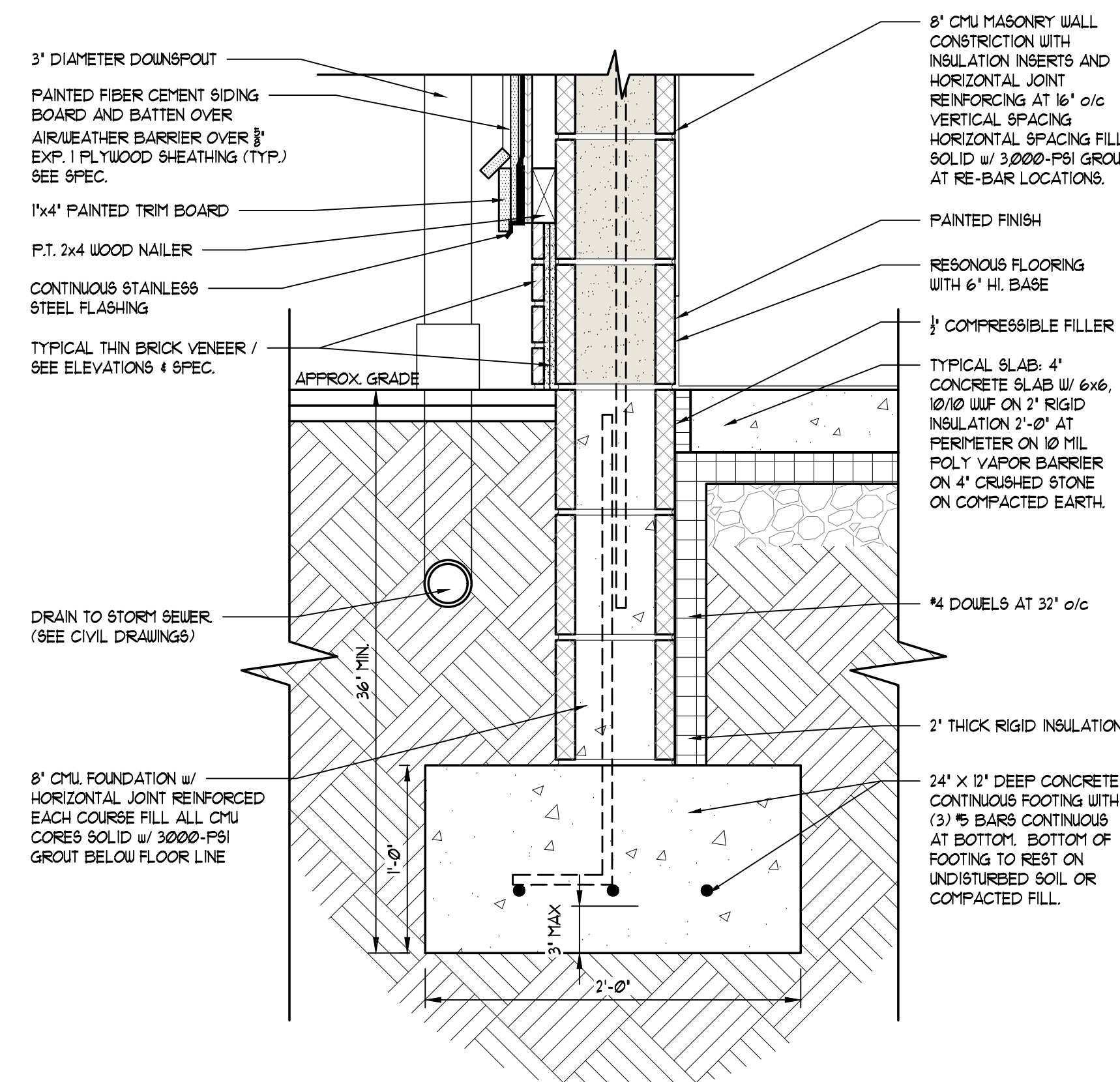
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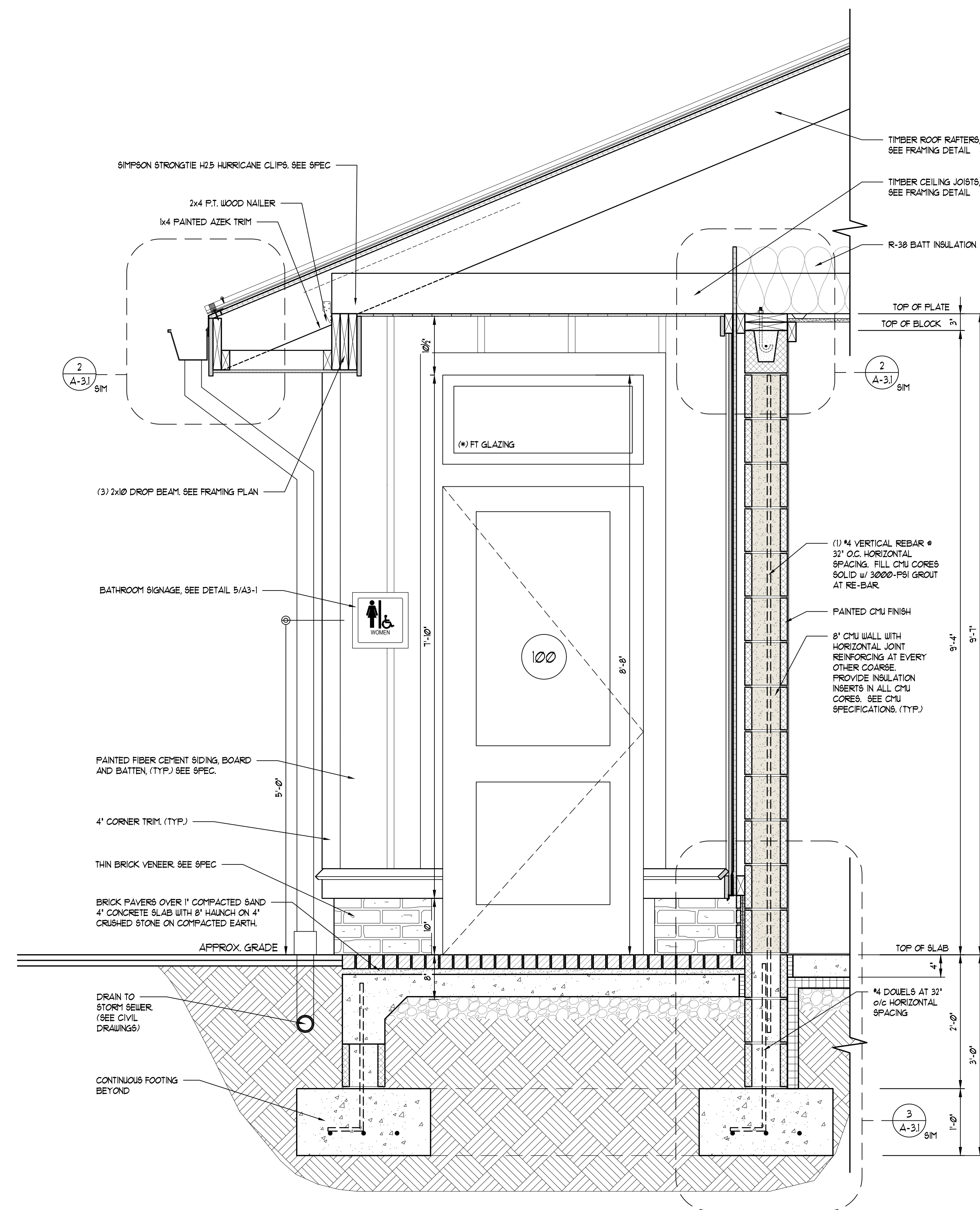
1 RIDGE DETAIL
SCALE: 3' = 1'-0'



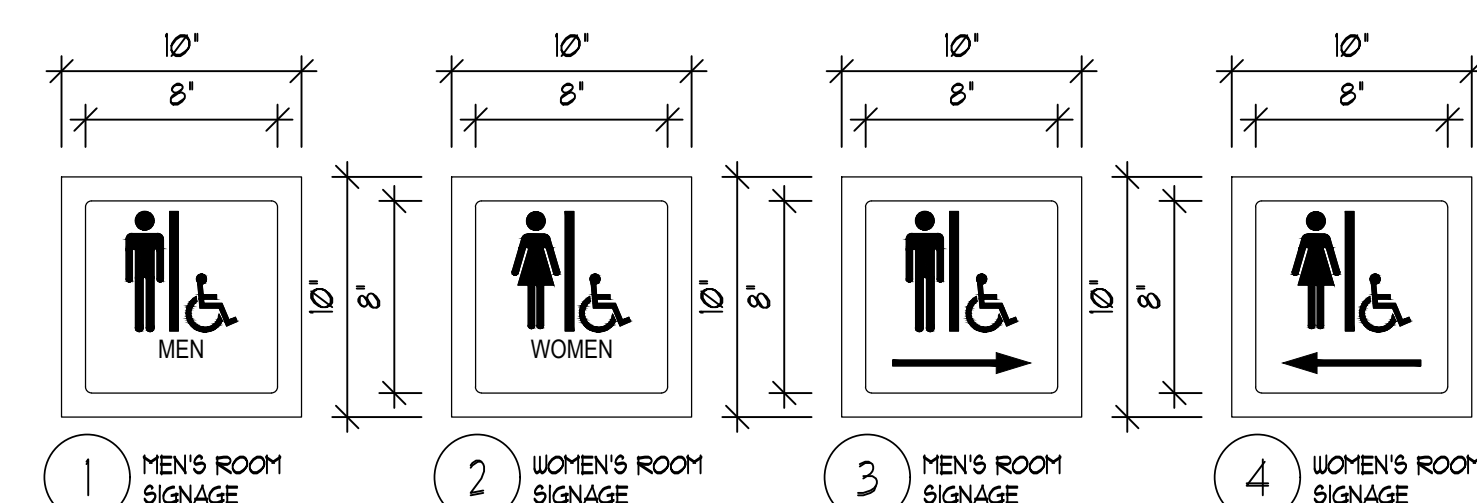
2 TYPICAL EAVE DETAIL
SCALE 1 1/2" = 1'-0"



3 TYPICAL FOUNDATION DETAIL
SCALE 1/2" = 1'-0"



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



5 BATHROOM SIGNAGE
SCALE: 1 1/2" = 1'-0"

ISSUED FOR BIDDING	1	06/29/
<u>DRAWING ISSUE</u>	No.	DATE

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HVAC SYMBOLS LIST

(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

HVAC BASIC PIPING SYMBOLS

	PIPE DROP
	PIPE RISE
	PITCH UP (IN DIRECTION OF FLOW)
	PITCH DOWN (IN DIRECTION OF FLOW)
	UNION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER - FLAT BOTTOM
	ECCENTRIC REDUCER - FLAT TOP
	FLANGED CONNECTION
	FLANGED END
	EXPANSION LOOP
	PIPE EXPANSION JOINT
	PIPE ALIGNMENT GUIDE
	PIPE ANCHOR
	GATE OR SHUTOFF VALVE (AS NOTED)
	ANGLE VALVE
	GLOBE VALVE
	ANGLE GLOBE VALVE
	NEEDLE VALVE COCK
	DIAMETER
	LOCK SHIELD VALVE
	CHECK VALVE, SWING OR LIFT
	SILENT CHECK VALVE
	FLEXIBLE CONNECTOR
	BUTTERFLY VALVE
	BALL VALVE
	SQUARE HEAD COCK
	CALIBRATED BALANCING VALVE
	PLUG VALVE (TYPE AS NOTED)
	AUTOMATIC CONTROL VALVE
	THREE-WAY AUTOMATIC CONTROL VALVE
	"Y" TYPE STRAINER W/BLOW OFF VALVE
	THERMOMETER AND WELL
	PRESSURE GAUGE
	PUMP
	HOT WATER SUPPLY
	HOT WATER RETURN
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	DOMESTIC WATER
	DRAIN
	REFRIGERANT
	NATURAL GAS
	STEAM TRAP

HVAC BASIC DUCTWORK & ACCESSORY SYMBOLS

	SINGLE LINE DUCTWORK OR EQUIPMENT - NEW
	SINGLE LINE DUCTWORK OR EQUIPMENT - EXISTING
	SINGLE LINE DUCTWORK OR EQUIPMENT - DEMOLITION
	FLEXIBLE DUCT
	TRANSITION
	DUCTWORK WITH ACOUSTIC LINING
	CEILING DIFFUSER
	RETURN/EXHAUST GRILLE
	SUPPLY AIR DUCT UP
	RETURN AIR DUCT UP
	EXHAUST AIR DUCT UP
	BACK DRAFT DAMPER
	MOTORIZED DAMPER
	AUTOMATIC SMOKE DAMPER
	RISE IN DUCTWORK (IN DIRECTION OF AIR FLOW)
	DROP IN DUCTWORK (IN DIRECTION OF AIR FLOW)
	CENTER LINE
	CUBIC FEET PER MINUTE
	DIAMETER
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	DIRECTION OF RETURN OR EXHAUST AIR
	DIRECTION OF SUPPLY OR OUTSIDE AIR
	COMBINATION FIRE & SMOKE DAMPER W/ ACCESS DOOR
	FIRE DAMPER (WALL) W/ ACCESS DOOR
	FIRE DAMPER (CEILING) W/ ACCESS DOOR
	VOLUME DAMPER
	DUCT SMOKE DETECTOR
	THERMOSTAT
	HUMIDISTAT
	TEMPERATURE SENSOR
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE SENSOR
	NITROGEN DIOXIDE SENSOR
	DOOR UNDERCUT
	SECTION DESIGNATION
	SHEET NO. WHERE SECTION IS SHOWN
	DETAIL DESIGNATION
	SHEET NO. WHERE DETAIL IS SHOWN
	MECHANICAL EQUIPMENT TAG
	PROPORTIONAL SPLIT OR EQUAL SPLIT, RADIUS ELBOWS (REFER TO SPECIFICATIONS)
	PROPORTIONAL SPLIT OR EQUAL SPLIT, RADIUS ELBOWS (REFER TO SPECIFICATIONS)
	ROUND BRANCH TAKE-OFF W/ SPIN FITTING
	BRANCH TAKE-OFF W/ HEEL
	ROUND BRANCH TAKE-OFF W/ BELLMOUTH
	TEE-ON-TAPER (DUST COLLECTION ONLY)
	DUCT ELBOW UP
	DUCT ELBOW DN

HVAC ABBREVIATIONS

(NOT ALL ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT)

AVV	AUTOMATIC AIR VENT	HW	HOT WATER
AC	AIR CONDITIONING	HX	HEAT EXCHANGER
ACU	AIR CONDITIONING UNIT	HZ	HERTZ (FREQUENCY)
AD	ACCESS DOOR	IN.	INCH OR INCHES
AFF	ABOVE FINISHED FLOOR	LAT	LEAVING AIR TEMPERATURE
AHU	AIR HANDLING UNIT	LD	LINEAR DIFFUSER
BCU	BLOWER COIL UNIT	LF	LINEAR FEET
BDD	BACKDRAFT DAMPER	LWB	LEAVING WET BULB TEMPERATURE
BHP	BRAKE HORSEPOWER	LWT	LEAVING WATER TEMPERATURE
BMS	BUILDING MANAGEMENT SYSTEM	MH	THOUSAND BTU PER HOUR
BR	BOTTOM REGISTER	MER	MECHANICAL EQUIPMENT ROOM
BT	BOTTOM THROAT	MIN	MINIMUM
BTU	BRITISH THERMAL UNIT	MOD	MOTOR OPERATED DAMPER
BTUH	BTU PER HOUR	(N)	NEW
CD	CEILING DIFFUSER	NC	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	NIC	NOT IN CONTRACT
CG	CEILING GRILLE	NO	NORMALLY OPEN
CHWR	CHILLED WATER RETURN	NO.	NUMBER
CHWS	CHILLED WATER SUPPLY	NTS	NOT TO SCALE
CLG	CEILING	OA	OUTSIDE AIR
CO	CLEANOUT	OAI	OUTSIDE AIR INTAKE
COND	CONDENSATE	OED	OPEN END DUCT
CR	CEILING REGISTER	P.C.	PLUMBING CONTRACTOR
CUH	CABINET UNIT HEATER	PB	POUNDS PER SQUARE INCH
CV	CONSTANT VOLUME	PSA	PSI ABSOLUTE
CW	COLD WATER/CONDENSOR WATER	PSIG	PSI GAUGE
DB	DRY BULB	RA	RETURN AIR
DDC	DIRECT DIGITAL CONTROL	(RE)	RELOCATED EXISTING
DAM	DAMETER	RF	RETURN FAN
DMPR	DAMPER	RG	RETURN GRILLE
DOWN	DOWN	RH	RELATIVE HUMIDITY
DX	DIRECT EXPANSION	RHC	REHEAT COIL
(E)	EXISTING TO REMAIN	ELA	RUNNING LOAD AMPS
(ER)	EXISTING TO BE REMOVED	RPM	REVOLUTIONS PER MINUTE
(ERR)	EXISTING TO BE REMOVED & RELOCATED	RR	RETURN REGISTER
EA	EXHAUST AIR/EACH	(RR)	EXISTING TO BE REMOVED & RETURN TO OWNER
EAT	ENTERING AIR TEMPERATURE	RTU	ROOFTOP HANDLING UNIT
E.C.	ELECTRICAL CONTRACTOR	SA	SUPPLY AIR
EDB	ENTERING DRY BULB TEMPERATURE	SD	SMOKE DAMPER
EF	EXHAUST FAN	SF	SUPPLY FAN
EG	EXHAUST GRILLE	SP	STATIC PRESSURE
EL	ELEVATION	SPEC	SPECIFICATION
EMS	ENERGY MANAGEMENT SYSTEM	SQFT	SQUARE FEET
ER	EXHAUST REGISTER	SR	SUPPLY REGISTER
ESP	EXTERNAL STATIC PRESSURE	TDH	TOTAL DYNAMIC HEAD
EWB	ENTERING WET BULB	TEMP	TEMPERATURE
EWT	ENTERING WATER TEMPERATURE	TO	TRANSFER GRILLE
EXH	EXHAUST	TR	TOP REGISTER
°F	DEGREES FAHRENHEIT	TRANS	TRANSITION
FA	FRESH AIR/FREE AREA (SQ. FT.)	TSP	TOTAL STATIC PRESSURE
FC	FLEXIBLE CONNECTION	T-STAT	THERMOSTAT
FD	FAN COIL UNIT	TYP	TYPICAL
FD	FIRE DAMPER	UH	UNIT HEATER
FIN FL/FF	FINISHED FLOOR	UN	UNLESS OTHERWISE NOTED
FLA	FULL LOAD AMPERES	VD	VOLUME DAMPER
FPB	FAN-POWERED BOX	VFD	VARIABLE FREQUENCY DRIVE
FPM	FEET PER MINUTE	VAV	VARIABLE AIR VOLUME
GAL	GALLON	VW	VARIABLE INLET VANES
G.C.	GENERAL CONTRACTOR	W	WIDTH
GPH	GALLONS PER HOUR	W/	WITH
GPM	GALLONS PER MINUTE	WB	WET BULB
GRD	GRILLES, REGISTERS & DIFFUSERS	WC	WATER COLUMN
HT	HEIGHT	WG.	WATER GAUGE
HP	HORSEPOWER	WH	WATER HEATER
HR	HOUR	WMS	WIRE MESH SCREEN
HV	HEATING AND VENTILATING		

MECHANICAL NOTES

- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS AND VISIT THE SITE TO BECOME ACQUAINTED WITH THE CONSTRUCTION AND THE EXTENT OF THE WORK. NO EQUIPMENT OR MATERIAL IS TO BE ORDERED OR FABRICATED PRIOR TO FIELD VERIFICATION OF ALL MEASUREMENTS, CLEARANCES, POTENTIAL CONFLICTS WITH EXISTING CONDITIONS OR THAT OF OTHER TRADES ON THE JOB.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE, WHETHER SPECIFIED OR IMPLIED.
- WHERE THERE IS A DISCREPANCY BETWEEN MATERIAL OR EQUIPMENT IN THE DRAWINGS AND/OR SPECIFICATIONS, THE MECHANICAL CONTRACTOR SHALL ASSUME THE MORE STRINGENT, HIGHER QUALITY AND MORE EXPENSIVE OPTION FOR BIDDING.
- CONTRACTOR SHALL VISIT THE JOB PRIOR TO SUBMITTING A BID.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE INTERNATIONAL BUILDING CODE, MECHANICAL CODE, FUEL GAS CODE, PLUMBING CODE, NEC CODE AND ALL OTHER STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL GIVE ALL NOTICES, OBTAIN AND PAY FOR ALL PERMITS, DEPOSITS AND FEES NECESSARY.
- DO NOT SCALE THE DRAWINGS FOR EXACT DIMENSIONS. THE DESIGN DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LAYOUT AND CONNECTIONS. CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
- CONTRACTOR SHALL REVIEW THE WORK OF OTHER TRADES TO PREVENT INTERFERENCE BETWEEN BEAMS, STRUCTURES, PIPING, LIGHTING FIXTURES, ETC. BEFORE PROCEEDING WITH NEW WORK.
- CONTRACTOR SHALL GUARANTEE THE ENTIRE JOB AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE BINDING REGARDLESS OF MANUFACTURER'S GUARANTEE AND CONTRACTOR SHALL REMOVE AND REPLACE ALL DEFECTIVE MATERIAL REGARDLESS OF CAUSE (EXCEPT FOR DEFECTS TRACEABLE TO IMPROPER MAINTENANCE OR MALICIOUS DESTRUCTION OCCURRING AFTER THE SYSTEM HAS BEEN TURNED OVER).
- ALL MATERIALS USED ANYWHERE IN THE WORK SHALL HAVE NFPA RATING AS FOLLOWS:
A. FLAME SPREAD- NOT OVER 25
B. SMOKE DEVELOPED- NOT OVER 50
C. FUEL CONTRIBUTED- NOT OVER 25
ALL MATERIALS SHALL BE "SELF-EXTINGUISHING"
- CONTRACTOR SHALL SUBMIT 1/4" SCALE SHEET METAL SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- SUBMIT SPECIFICATION SHEETS OF ALL EQUIPMENT SUPPLIED OR INSTALLED TO THE ARCHITECT/ENGINEER FOR APPROVAL, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
A. AIR CONDITIONING UNITS
B. GRILLES, REGISTERS, AND DIFFUSERS
C. CONTROLS
D. PIPING
E. INSULATION
F. FANS
- ALL MECHANICAL EQUIPMENT AND APPLIANCES INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY.
- EQUIPMENT AND MATERIALS ARE SPECIFIED TO ESTABLISH A STANDARD OF QUALITY. ALL MATERIALS AND EQUIPMENT USED FOR THIS CONTRACT SHALL BE NEW, UNUSED AND OF THE LATEST MODEL OR DESIGN AVAILABLE.
- ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT INSULATION IS APPLIED.
- UPON COMPLETION OF THE WORK, REMOVE ALL EXCESS MATERIAL, DEBRIS, TOOLS AND EQUIPMENT FROM THE SITE, AND LEAVE THE PREMISES IN A BROOM CLEAN CONDITION.
- CONTRACTOR SHALL PROVIDE THREE (3) COMPLETE SETS OF BOUND OPERATING AND MAINTENANCE INSTRUCTIONS. CONTRACTOR SHALL INSTRUCT THE OWNER OR HIS AGENT WITH REGARD TO THE PROPER USE OF THE SYSTEM UNTIL SUCH INSTRUCTION IS COMPLETE TO THE OWNER'S SATISFACTION.
- ALL DUCT SIZES SHOWN ARE INSIDE CLEAR.
- MAXIMUM ALLOWABLE LENGTH FOR FLEXIBLE DUCT IS SIX (6') FEET.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING, EITHER ENGAGING HIS OWN GENERAL SUBCONTRACTOR OR ONE QUALIFIED BY THE OWNER.
- CONTRACTOR SHALL INFORM THE ENGINEER OF ANY QUESTIONS OR DISCREPANCIES PRIOR TO PRECUSOR AND/OR FABRICATION OF ANY MATERIALS AND INSTALLATION.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN GUIDELINES, INSTALLATION MANUAL, SPECIFICATIONS, AND O&M MANUAL.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL STEEL, SUPPORTS, BRACES, HANGERS, ETC., REQUIRED FOR HIS CONTRACT UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT SUPPORT LOCATION AND INSTALLATION WITH ROOFING AND STRUCTURAL CONTRACTORS.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONNECTIONS, SUPPORTS, TERMINATIONS & ACCESSORIES ASSOCIATED WITH AIR HANDLING UNITS, FANS, ETC.
- SUPPORT ALL EQUIPMENT, PIPING AND DUCTWORK WITH VIBRATION ISOLATION HANGERS AS REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
- MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR WHO WILL PROVIDE POWER WIRING TO ALL MECHANICAL EQUIPMENT. MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL AND INTERLOCK WIRING AND ALL THERMOSTATS AND ACCESSORIES.
- ALL EXTERIOR WALL OPENINGS SHALL BE SLEEVED, PROPERLY CAULKED AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR.
- PROVIDE VOLUME DAMPERS AT ALL DUCT BRANCHES AND RUNOUTS. PROVIDE OPPOSED BLADE VOLUME DAMPERS AT ALL REGISTERS, GRILLES AND DIFFUSER NECKS IN SUPPLY, RETURN AND EXHAUST DUCTWORK WHETHER SHOWN ON DRAWINGS OR NOT.
- PROVIDE AT MINIMUM 10 GAUGE STEEL SLEEVES FOR ALL DUCT PENETRATIONS THROUGH FIRE WALLS, FLOORS AND PARTITIONS. PROVIDE PIPE SLEEVES FOR ALL MECHANICAL PIPING PENETRATING THROUGH FIRE WALLS, FLOORS AND PARTITIONS. SEAL ALL ANNUAL SPACE BETWEEN SLEEVES AND DUCTWORK OR PIPING WITH A FIRE BARRIER MATERIAL.
- PROVIDE FLEXIBLE CONNECTIONS ON ALL DUCTS AND PIPING CONNECTIONS TO ANY MOTOR DRIVEN MECHANICAL EQUIPMENT (I.E. FANS, AIR HANDLERS, PUMPS, ETC.) INSTALL FLEXIBLE COPPER GROUNDING STRAPS ACROSS ALL FLEXIBLE CONNECTIONS.
- THE INSIDE OF ALL DUCTWORK VISIBLE THROUGH A GRILLE OR DIFFUSER SHALL BE PAINTED FLAT BLACK.
- ACCESS PANELS SHALL BE PROVIDED TO SERVICE ALL VALVES, DAMPERS, HEATERS, EQUIPMENT, MECHANICAL EQUIPMENT TRAPS, CLEANOUTS AND DISCHARGE SIDE OF ELECTRIC HEATERS. COORDINATE ACCESS DOORS ON FINISHED SURFACES W/ ARCHITECT AND OWNER.
- FINAL LOCATIONS FOR MOUNTING ALL THERMOSTATS SHALL BE COORDINATED WITH THE ENGINEER PRIOR TO INSTALLING ANY CONTROL WORK. ALL COMMON AREA THERMOSTATS SHALL BE EQUIPPED WITH LOCKING COVERS. MOUNT ALL THERMOSTATS TO COMPLY WITH ADA REQUIREMENTS. THERMOSTAT WIRING SHALL BE INSTALLED IN CONCEALED SPACE, WALL OR CHASE - COORDINATE WITH THE OWNER REPRESENTATIVE. CONTRACTOR SHALL PROVIDE 1-INCH THICK (R-5) FOAM BOARD INSULATION PAINTED TO MATCH ROOM'S FINISH FOR ALL THERMOSTATS MOUNTED ON MASONRY WALLS.
- THE TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC OR NEBB STANDARDS.
- CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL DEVICES WILL BE INSTALLED IN LOCATIONS WHICH AFFORD ACCESSIBILITY FOR MAINTENANCE AND REPAIR. COORDINATE INSTALLATION AMONG ALL TRADES TO AVOID INTERFERENCES AND LOCATE EQUIPMENT TO PROVIDE CLEARANCES WHICH EXCEED THOSE RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE SAFETY OF STRUCTURE, BOTH EXISTING AND NEW.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SCHEDULING AND ASSOCIATED HOISTING, STAGING, AND ERECTING OF MATERIALS. ALL ELEMENTS OF THE EXISTING PROPERTY SHALL BE PROTECTED AGAINST DAMAGE RESULTING FROM THESE ACTIVITIES.
- THE LOCATION OF EXISTING SYSTEMS AND SYSTEM COMPONENTS WAS OBTAINED THROUGH EXISTING DRAWINGS AND FIELD SURVEYS. ONLY SYSTEM ELEMENTS THAT WERE CLEARLY VISIBLE HAVE BEEN IDENTIFIED. LOCATIONS AND SIZES OF EXISTING SYSTEMS MUST BE FIELD VERIFIED BY THE CONTRACTOR, PRIOR TO THE REMOVAL OF ANY EXISTING SYSTEM COMPONENTS AND CONNECTING NEW SYSTEMS TO EXISTING.
- THESE DRAWINGS HAVE BEEN MADE BASED ON A VISUAL INSPECTION OF THE EXISTING SURFACES. SOME ASSUMPTIONS HAVE BEEN MADE AS TO ACTUAL CONSTRUCTION, MATERIALS, AND METHODS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL FIELD CONDITIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, CONFLICTS, AND UNFORESEEN CONDITIONS. IN ADDITION, THESE DRAWINGS ASSUME THAT ALL EXISTING MATERIALS ARE IN GOOD STRUCTURAL SHAPE, GOOD WORKING ORDER, AND MEET ALL APPLICABLE CODES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION OF ALL EXISTING STRUCTURAL ELEMENTS AND SHALL REPORT TO THE CLIENT AND ARCHITECT ANY SIGNS OF POTENTIAL PROBLEMS WITH THE STRUCTURE INCLUDING, BUT NOT LIMITED TO, WOOD DECAYING ORGANISMS, WATER PENETRATION, STRUCTURAL FRACTURES, STRESSED SURFACES, BRICK AND MASONRY WEAKENING AND WEAK STRUCTURAL CONNECTIONS.
- ENGAGE A FACTORY- AUTHORIZED SERVICE REPRESENTATIVE TO PERFORM STARTUP SERVICES. COMPLETE INSTALLATION AND STARTUP CHECKS SHALL BE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND STARTUP REPORTS SHALL BE PROVIDED TO ARCHITECT/ENGINEER FOLLOWING COMPLETION. STARTUP SHALL BE PROVIDED FOR ALL EQUIPMENT SUPPLIED OR INSTALLED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
A. AIR CONDITIONING UNITS
B. HEATERS
C. FANS
D. CONDENSERS & HEAT PUMPS
E. CONTROLS
- THE CONTRACTOR SHALL PREPARE FULLY DIMENSIONED FIELD INSTALLATION DRAWINGS AS OUTLINED BELOW. THESE DRAWINGS SHALL BE FORWARDED TO ALL CONTRACTORS. EACH CONTRACTOR SHALL SUBSEQUENTLY IN SUCCESSION DELINEATE THEIR RESPECTIVE WORK ON THESE COORDINATION DRAWINGS. WHEN ALL WORK HAS BEEN PROPERLY SHOWN ON THE COORDINATION DRAWINGS, AND ALL CONTRACTORS AGREE THAT THEIR RESPECTIVE WORK CAN BE INSTALLED AND SHALL PROPERLY FIT TOGETHER, THEY SHALL SO ACKNOWLEDGE BY ENDORSING THE DRAWING(S). ANY WORK DONE PRIOR TO COMPLETION OF ABOVE COORDINATION PROCESS FOUND IN CONFLICT SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.

GENERAL FIRESTOPPING NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OR EXCEEDING WALL/CEILING/FLOOR ASSEMBLY RATINGS FOR ALL PENETRATIONS. CONTRACTOR SHALL VERIFY LOCATION AND RATING OF ALL FIRE ASSEMBLIES AND PROVIDE INTUMESCENT COLLARS AT ALL PENETRATIONS AND FIRE RATED CAULKING AS REQUIRED.

MECHANICAL COVERSHEET

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457
KENNETH CONNINGHAM, P.E.
PROFESSIONAL ENGINEER
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BURLINGTON COUNTY AGRICULTURAL CENTER
2026 IMPROVEMENTS
500 CENTERION ROAD, MOORESTOWN, NJ
BLOCK 8801, LOT 2.3 & 3Q FARM
MOORESTOWN TWP, BURLINGTON COUNTY, NEW JERSEY

No.	Date	Revision

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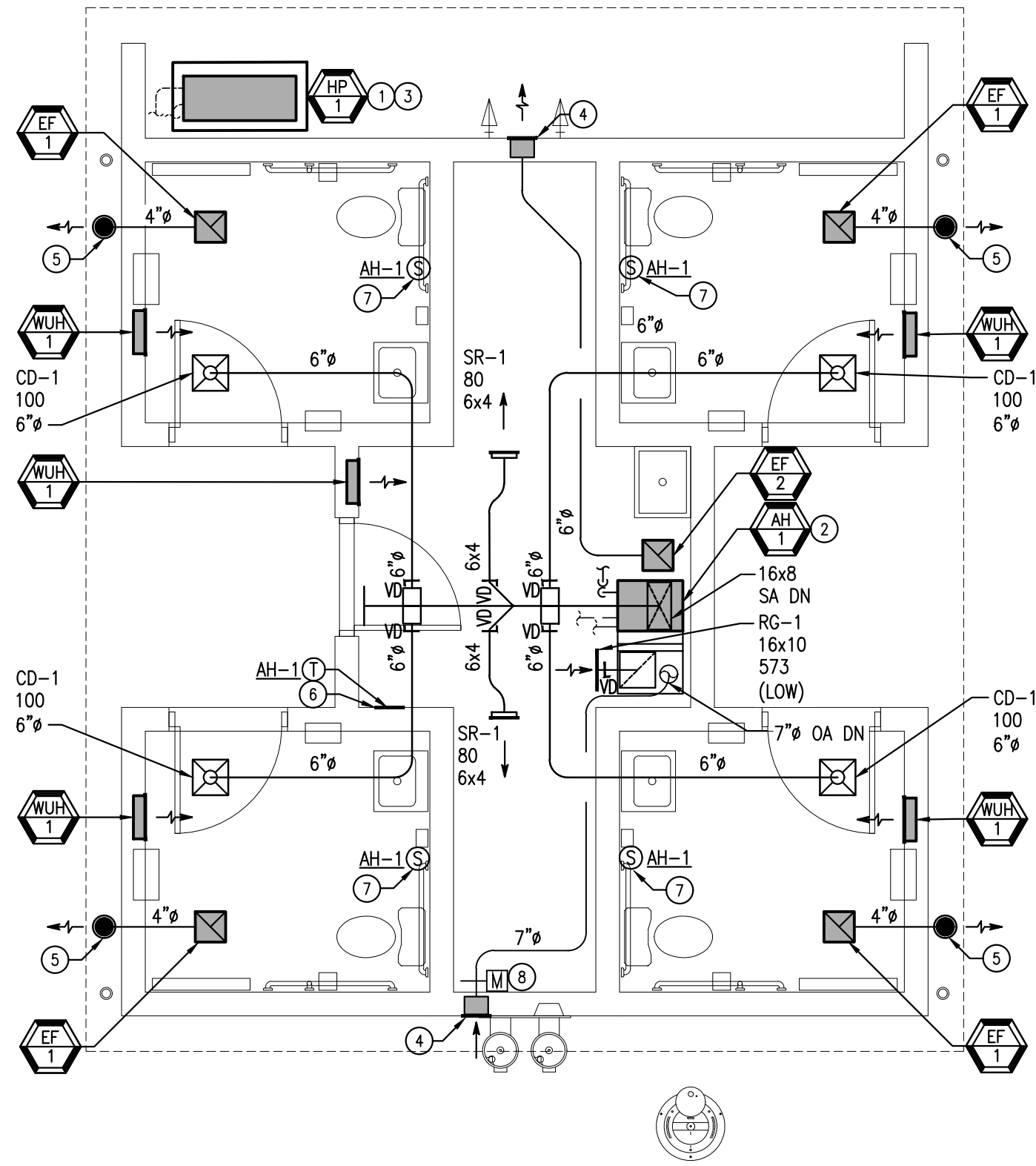
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AS SHOWN
DATE: 06/30/26
DRAWN BY: RNV
JOB NO: 25134



01 MECHANICAL FLOOR PLAN – HVAC
SCALE: 1/4" = 1'-0"

DRAWING NOTES:

- DRAWINGS ARE DIAGRAMMATIC. PROVIDE ADDITIONAL OFFSETS, TRANSITIONS, ETC. AS REQUIRED TO AVOID INTERFERENCES ENCOUNTERED.
- CONTRACTOR SHALL PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES AND ACCESS TO ALL EQUIPMENT. COORDINATE LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS.
- SPACE ABOVE CEILING IS VERY LIMITED. COORDINATE WITH ALL TRADES FOR DUCTWORK ROUTING PRIOR TO FABRICATION AND INSTALLATION.
- ALL TOILET AND BATHROOM EXHAUST SHALL TERMINATE ON EXTERIOR A MINIMUM OF 3 FEET FROM ALL OPERABLE WINDOWS AND OTHER OPENINGS TO BUILDINGS AND 10 FEET FROM MECHANICAL INTAKES.
- INSULATE ALL SUPPLY AIR, RETURN AIR, AND OUTSIDE AIR DUCTWORK SEE SPECIFICATION FOR MORE INFORMATION.
- COORDINATE HVAC UNIT LOCATION AND DUCTWORK LAYOUT WITH STRUCTURAL MEMBERS, TRUSS SHOP DRAWINGS AND G.C. TO PROVIDE BOX-OUTS AS REQUIRED.
- PROVIDE CEILING RADIATION DAMPERS FOR ALL CEILING REGISTERS, DIFFUSERS, GRILLES, FANS AND OTHER PENETRATIONS NECESSARY TO MATCH ASSEMBLY RATING AND UL LISTINGS. COORDINATE ALL LOCATIONS WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO ANY INSTALLATION. REFER TO AIR DEVICE SCHEDULE FOR ADDITIONAL INFORMATION AND ARCHITECTURAL DRAWINGS FOR ASSEMBLIES.
- COORDINATE HVAC UNIT LOCATION AND DUCTWORK LAYOUT WITH STRUCTURAL MEMBERS, TRUSS SHOP DRAWINGS AND G.C. TO PROVIDE BOX-OUTS AS REQUIRED.
- PROVIDE INTERNAL INSULATION OR ACOUSTICAL LINING WITHIN RETURN AIR DUCT WHERE RETURN AIR ONLY HAS ONE 90-DEGREE TURN AND LESS THAN 8'-0" OF DUCT BEYOND ELBOW TO MITIGATE BREAK-OUT NOISE.

KEY NOTES:

- ROUTE AND SUPPORT REFRIGERANT LINES BETWEEN ASSOCIATED OUTDOOR CONDENSER UNIT AND INDOOR COOLING UNIT. PROVIDE LINE SET WALL OUTLET (AREX TITAN OUTLET OR SIMILAR).
- ROUTE REFRIGERANT LINES BETWEEN ASSOCIATED INDOOR COOLING COIL AND OUTDOOR CONDENSER UNIT. MOUNT UNIT ON 36" HIGH INSULATED RETURN AIR PLENUM ON VIBRATION ISOLATION SUPPORTS. INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS. PROVIDE CONDENSATE PUMP AND ROUTE CONDENSATE LINE TO NEAREST APPROVED OUTLET. COORDINATE LOCATION OF CONDENSATE TERMINATION WITH LOCAL AHU AND OWNERSHIP.
- PROVIDE 4" CONCRETE HOUSEKEEPING PAD. FASTEN UNIT TO PAD.
- PROVIDE INTAKE/EXHAUST VENT TERMINATION (VENT BOX AS STANDARD). COORDINATE WALL TYPE AND FINAL LOCATION WITH STRUCTURAL MEMBERS AND ARCHITECTURAL PLANS. COORDINATE COLOR WITH ARCHITECT/OWNER PRIOR TO PURCHASE.
- PROVIDE NEW PANASONIC EZ SOFFIT VENT OR EQUIVALENT. COORDINATE FINAL LOCATION WITH ARCHITECT AND STRUCTURAL.
- PROVIDE CENTRAL CONTROLLER FOR ALL SENSORS.
- PROVIDE REMOTE SENSORS INTERLOCKED TO CENTRAL CONTROLLER. COORDINATE FINAL LOCATIONS WITH ALL TRADES AND OWNERSHIP.
- PROVIDE MOTORIZED DAMPER INTERLOCKED TO AH-1 AND BALANCED TO 120CFM OA. CONFIRM POWER REQUIREMENTS WITH EC.

MECHANICAL FLOOR PLAN

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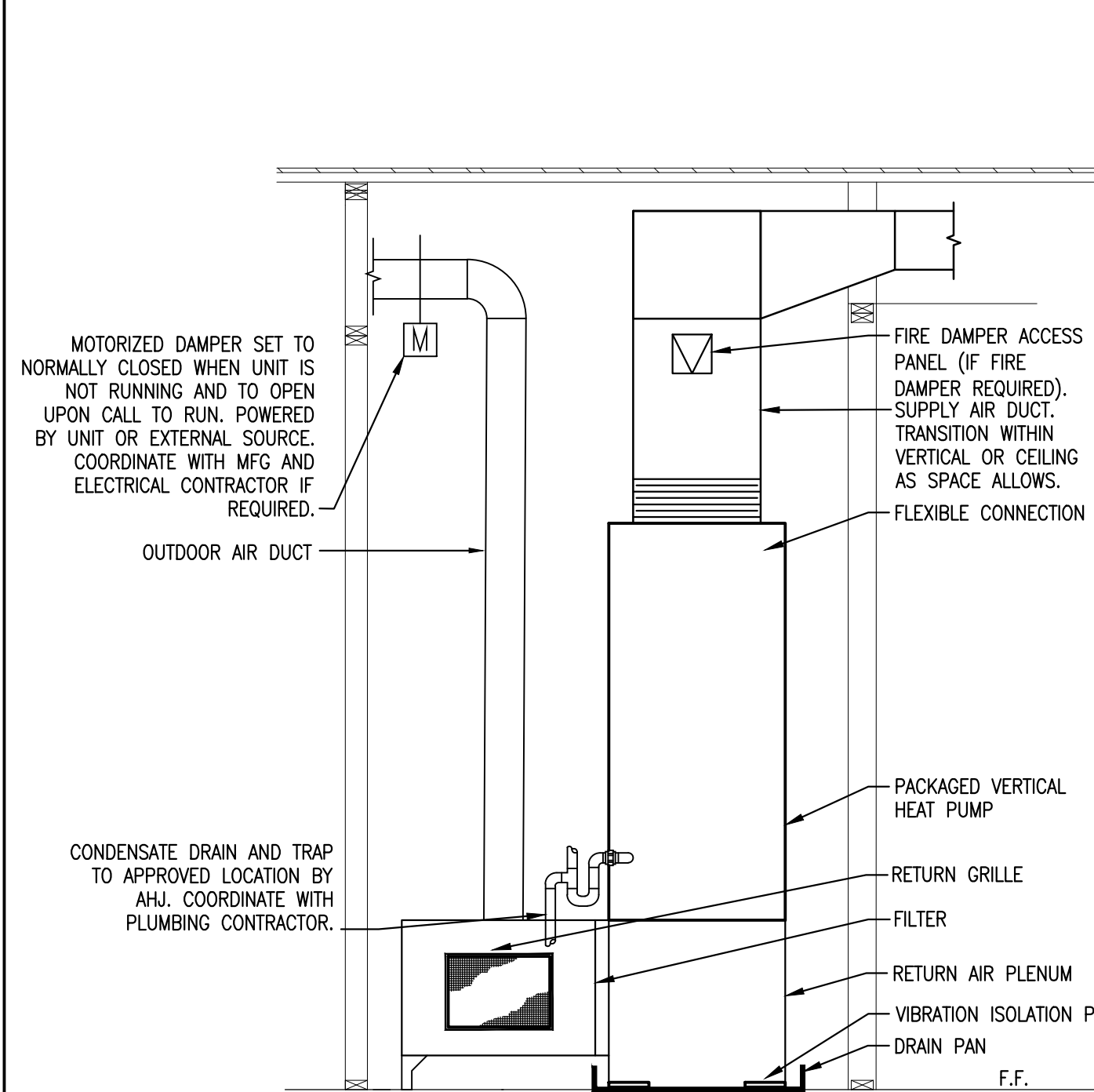
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AS SHOWN | DRAWN BY: RNV
DATE: 06/30/26 | JOB NO: 25134

AIR DEVICE SCHEDULE		
NOTE: NOT ALL DEVICES MAY BE USED ON PROJECT.		
TAG	FLOW PATTERN	SUPPLY
SR-1	N/A	WALL/CEILING SUPPLY GRILLE EQUAL TO TITUS MODEL 300FL 8x6, ALUMINUM CONSTRUCTION, DOUBLE DEFLECTION, ROLL-FORMED ALUMINUM BORDER, BLADES AND OPPOSED BLADE DAMPER. COLOR & BORDER TYPE BY ARCHITECT.
CD-1	4-WAY (UNLESS NOTED OTHERWISE)	12x12 FACE CEILING DIFFUSER EQUAL TO TITUS MODEL TDC-AA, ALUMINUM CONSTRUCTION, FIXED DISCHARGE, PATTERN OPTION A4, 4-WAY (UNLESS NOTED ON PLANS), BORDER TYPE 1 (SURFACE MOUNT) OR BORDER TYPE 3 (LAY-IN) AS REQUIRED, OPPOSED BLADE DAMPER, NECK SIZE AS INDICATED ON DRAWINGS. COLOR BY ARCHITECT.
RETURN		
RG-1	N/A	RETURN GRILLE EQUAL TO TITUS MODEL 350FL, 18x12 ALUMINUM CONSTRUCTION, 3/4" BLADE SPACING, 35 DEG. DEFLECTION, ROLL-FRAMED ALUMINUM BORDER AND BLADES, OPPOSED BLADE DAMPER, NECK SIZE AS INDICATED ON DRAWINGS. COLOR BY ARCHITECT.

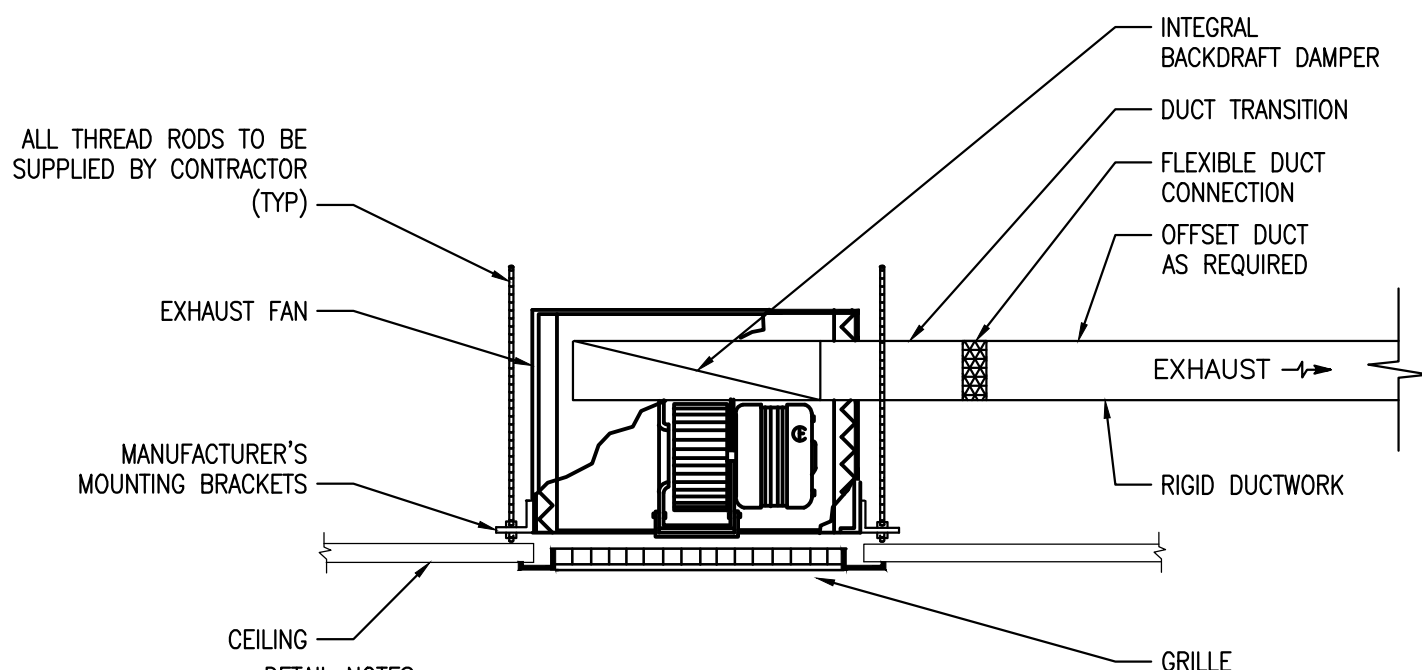
- NOTES/ACCESSORIES:
- FINISH/COLOR OF ALL DIFFUSERS SHALL BE DETERMINED BY OWNER/ARCHITECT.
 - PROVIDE 4-WAY THROW UNLESS NOTED (ARROWS) ON PLANS.
 - MAXIMUM PRESSURE DROP FOR SUPPLY AIR DIFFUSERS SHALL BE 0.10" W.G.
 - MECHANICAL CONTRACTOR SHALL COORDINATE BORDER TYPES WITH CEILING AND WALL CONSTRUCTION. REFER TO ARCH. REFLECTED CEILING PLAN. COORDINATE WITH GENERAL CONTRACTOR.
 - OPPOSED BLADE DAMPERS MAY BE OMITTED WHERE VOLUME DAMPERS ARE PROVIDED AT BRANCH RUNOUTS.
 - PROVIDE RADIATION CEILING DAMPERS ON ALL DIFFUSERS, REGISTERS AND GRILLES WHERE RATED CEILING OR FLOOR RATED ASSEMBLIES ARE PENETRATED TO MAINTAIN RATINGS. COORDINATE WITH ARCHITECTURAL PLANS AND G.C. FOR LOCATIONS.
 - PROVIDE ROUND TO RECTANGULAR BOOTS TO CONNECT ROUND BRANCH TAKE-OFFS TO SUPPLY AIR RECTANGULAR REGISTERS AND DIFFUSERS.
 - DRAWING SYMBOL INFORMATION:

☒ OR ☐ TAG
NECK SIZE
CFM



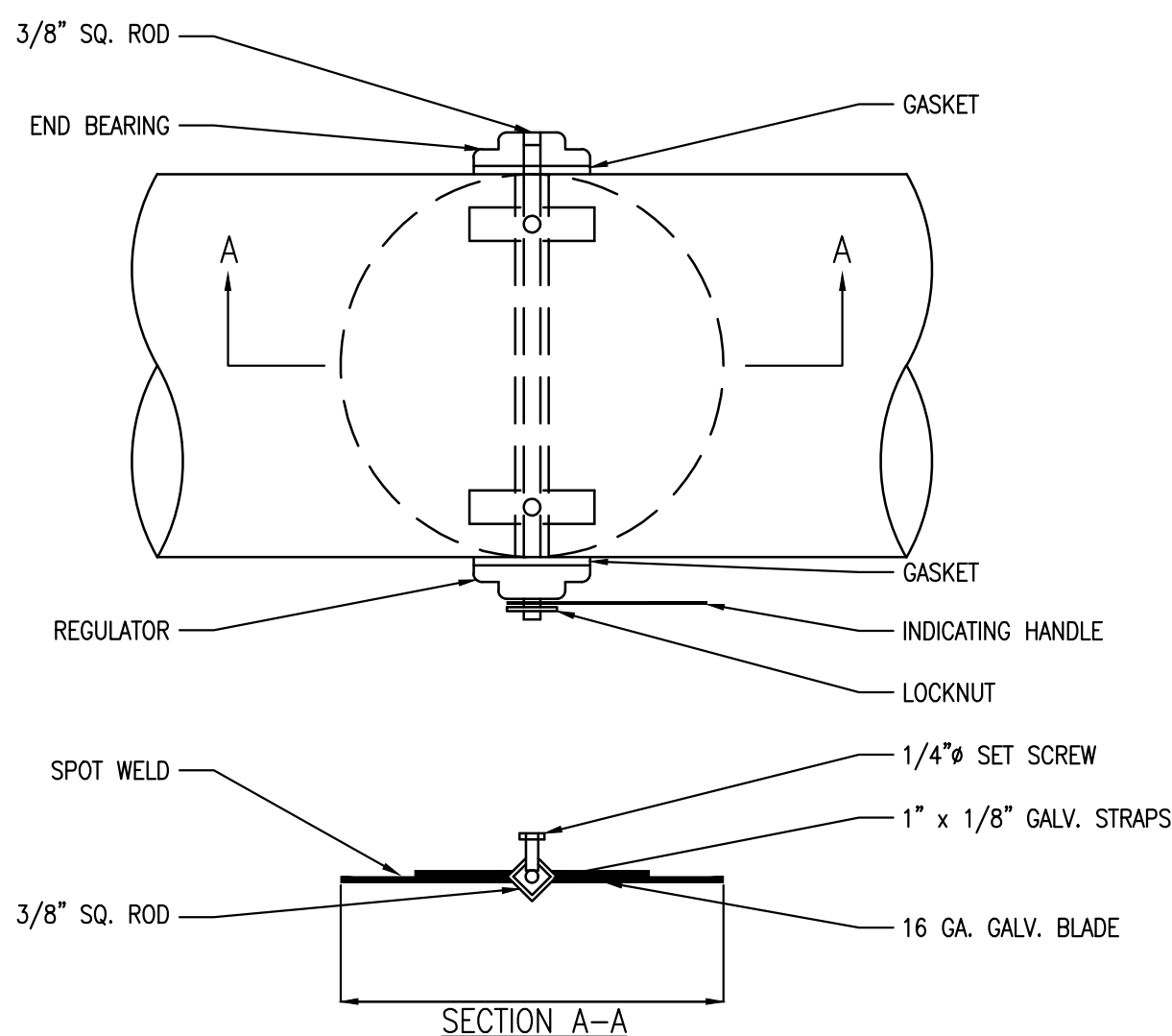
- DETAIL NOTES:
- UNITS CONFIGURATIONS VARY. COORDINATE WITH FLOOR PLANS FOR LEFT AND RIGHT HAND ARRANGEMENTS.
 - ALL INSTALLATIONS SHALL MEET MANUFACTURER'S REQUIREMENTS.
 - UNIT BASE MUST BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.

01 TYPICAL PACKAGED VERTICAL WSHP DETAIL
SCALE: NOT TO SCALE

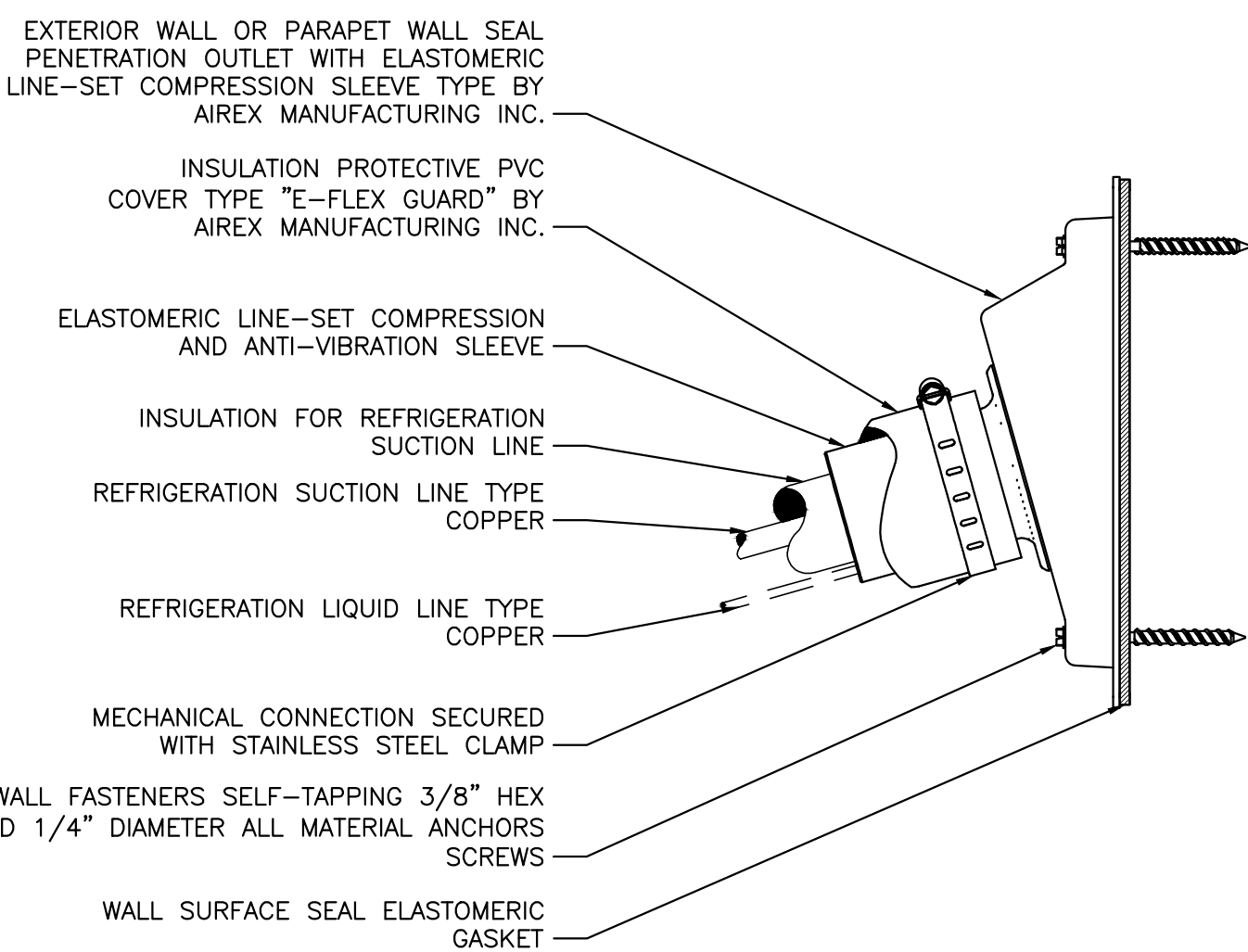


- DETAIL NOTES:
- COORDINATE RATED CEILING LOCATIONS WITH ARCHITECT PLANS AND PROVIDE MANUFACTURER'S RADIATION DAMPERS WHERE REQUIRED. PROVIDE CEILING RADIATION DAMPER WHERE EXHAUST FAN IS INSTALLED WITHIN A RATED CEILING ASSEMBLY. COORDINATE RATING WITH ARCHITECTURAL PLANS.
 - PROVIDE THREE (3) DUCT DIAMETERS OR THREE (3) FEET OF STRAIGHT DUCT RUN AT OUTLET OF FAN, WHICHEVER IS GREATER.

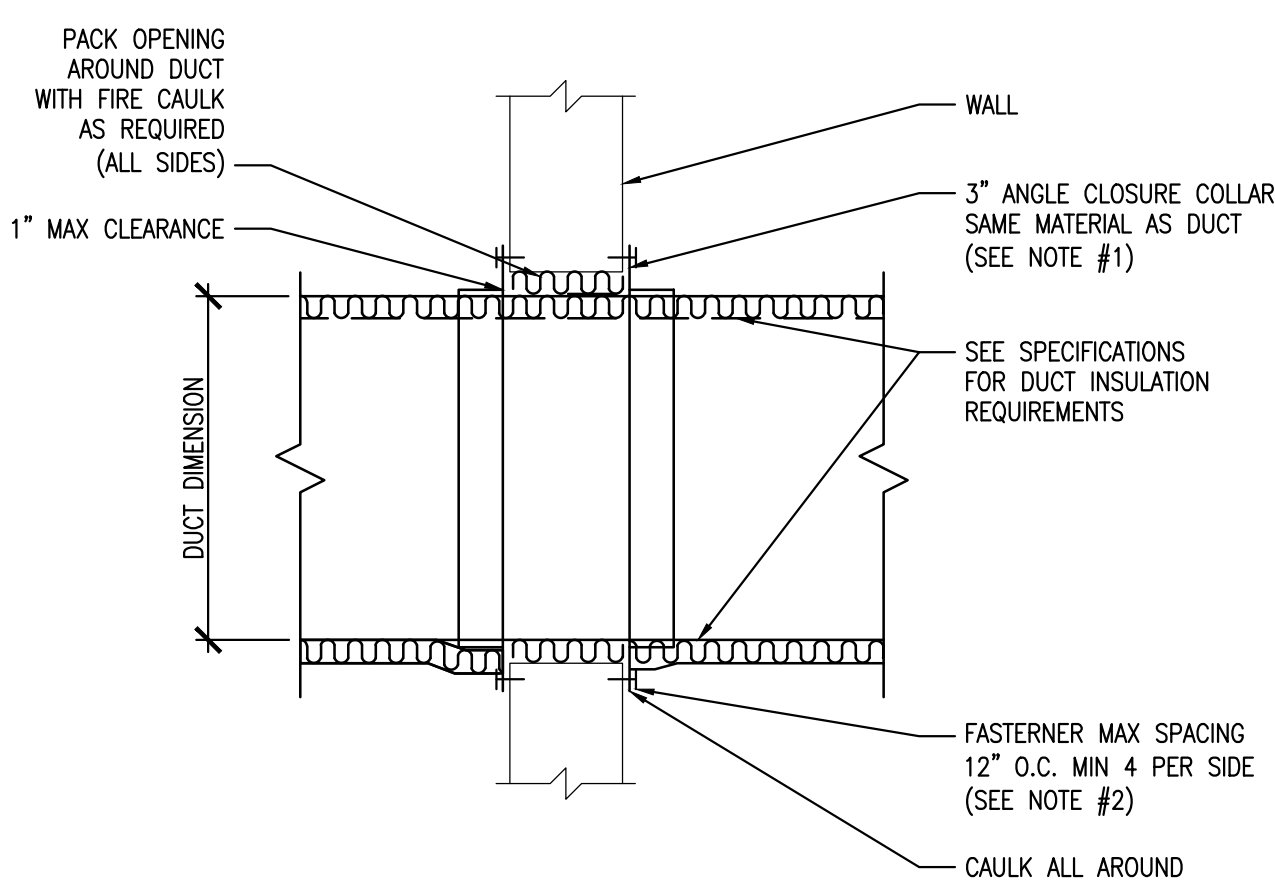
03 TYPICAL EXHAUST FAN DETAIL
SCALE: NOT TO SCALE



04 TYPICAL ROUND VOLUME DAMPER DETAIL
SCALE: NOT TO SCALE

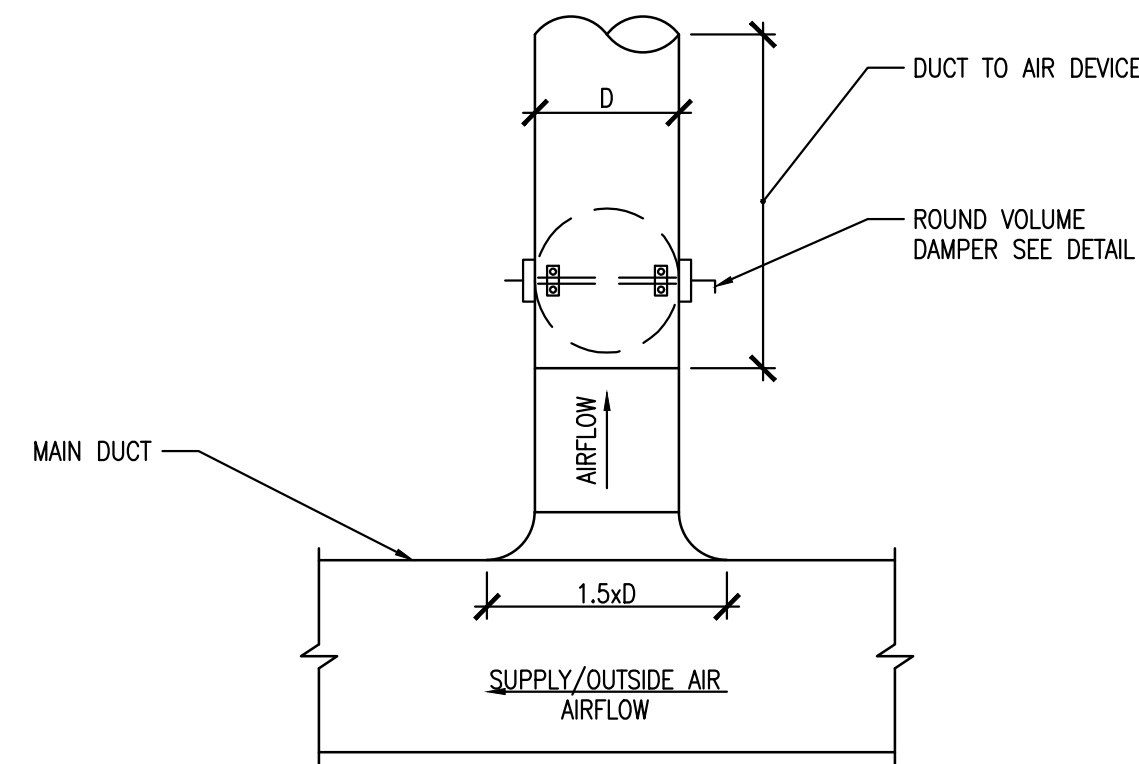


02 REFRIGERATION PIPE PENETRATION DETAIL
SCALE: NOT TO SCALE



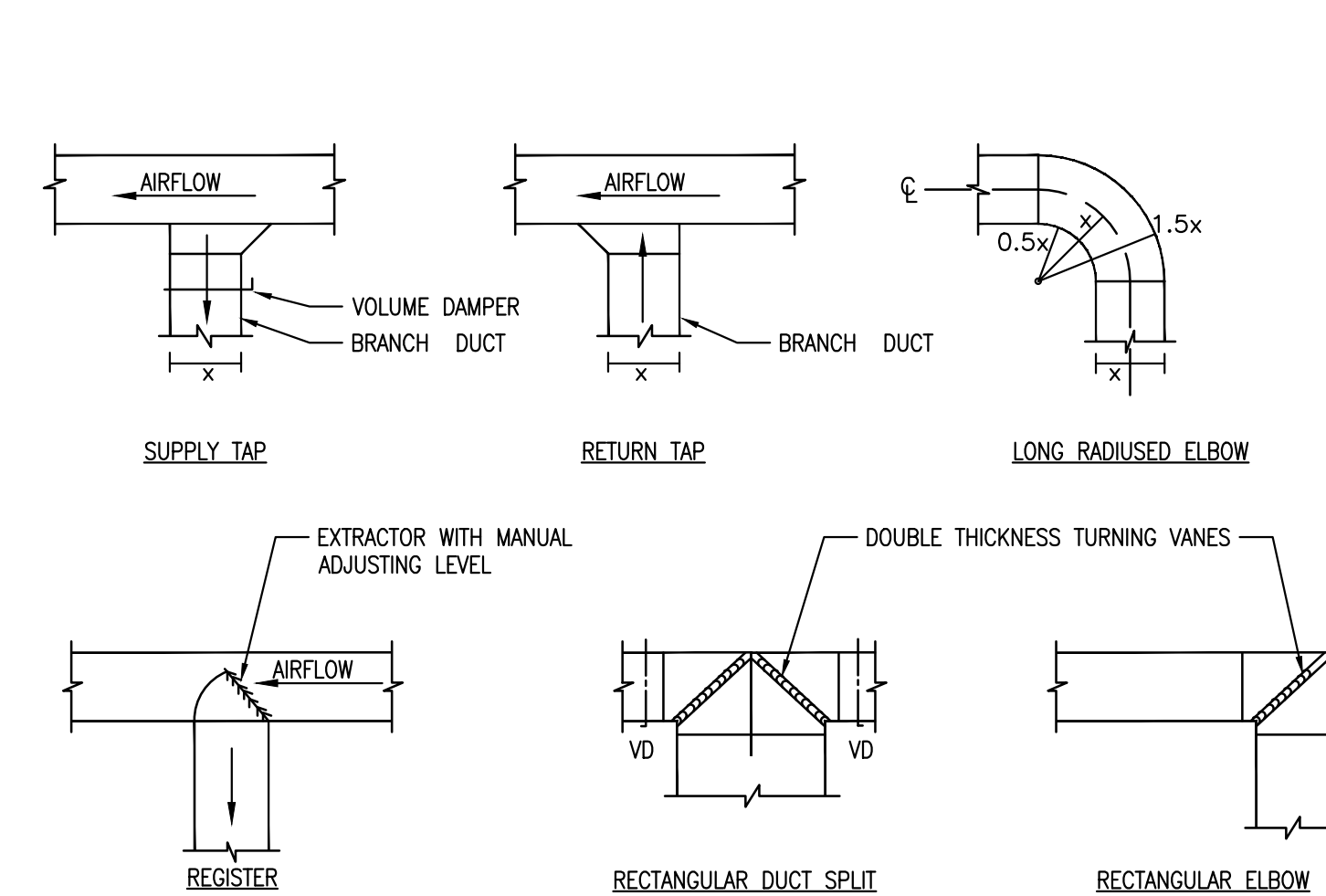
- DETAIL NOTES:
- CLOSURE COLLARS ARE NOT TO BE USED FOR SUPPORTING DUCT. PROVIDE INDEPENDENT SUPPORT ON EITHER SIDE OF WALL PER SMACNA CONSTRUCTION STANDARD.
 - FASTENERS TO BE SHEET METAL SCREWS FOR METAL STUD WALLS, POWDER DRIVEN FASTENERS FOR CONCRETE WALLS OR MASONRY ANCHORS FOR MASONRY WALLS.

05 RECTANGULAR DUCT WALL PENETRATION DETAIL
SCALE: NOT TO SCALE



- DETAIL NOTES:
- PROVIDE THIS TYPE OF CONNECTION WHEN INDICATED ON PLAN. FOR USE WITH LOW PRESSURE BRANCHES WITH LESS THAN 700 CFM AND MEDIUM PRESSURE BRANCHES WITH LESS THAN 1,000 CFM.
 - SHALL NOT BE USED AS A SUBSTITUTE FOR AN ELBOW.
 - ALL INSULATED SUPPLY AND RETURN DUCTWORK SHALL BE FURNISHED AND INSTALLED WITH STAND-OFF MOUNTING BRACKETS FOR VOLUME/BALANCING DAMPER OPERATORS. ALLOW CLEARANCE BETWEEN DUCT AND OPERATOR OF NOT LESS THAN INSULATION THICKNESS.
 - TAPERED CONNECTION 45° ANGLE (IF MAIN DUCT IS RECTANGULAR) OR CONICAL CONNECTION (IF MAIN DUCT IS ROUND) L=1/4 W; 4" MIN.

07 CIRCULAR BRANCH CONNECTION DETAIL
SCALE: NOT TO SCALE



- DETAIL NOTES:
- ALL DUCT FITTINGS SHALL BE CONSTRUCTED PER THE LATEST SMACNA STANDARDS.

09 BRANCH DUCT DETAILS
SCALE: NOT TO SCALE

DUCTLESS/DUCTED SPLIT AIR HANDLER SYSTEM SCHEDULE																	
AIR HANDLER TAG	HEAT PUMP TAG	SERVICE	BASIS OF DESIGN MANUF.	MODEL No. INDOOR	NOM. TONS	OA CFM	FAN DATA			INDOOR CAPACITIES		OUTDOOR CAPACITIES		ELECTRICAL DATA			REMARKS
							CFM (LO/MED/HI)	E.S.P. IN W.G.	SOUND LEVEL (dB)	TOTAL COOLING (MBH)	TOTAL HEATING (MBH)	TOTAL COOLING (MBH)	TOTAL HEATING (MBH)	VOLTAGE	INDOOR MCA	INDOOR MOCP	
AH-1	HP-1	BATH & UTILITY	MITSUBISHI	SVZ-AP18NL	1.5	120	471/573/675	0.3-0.8	36-45	18.0	23.8	18.0	23.8	208/14/60	3.0	N/A	ALL

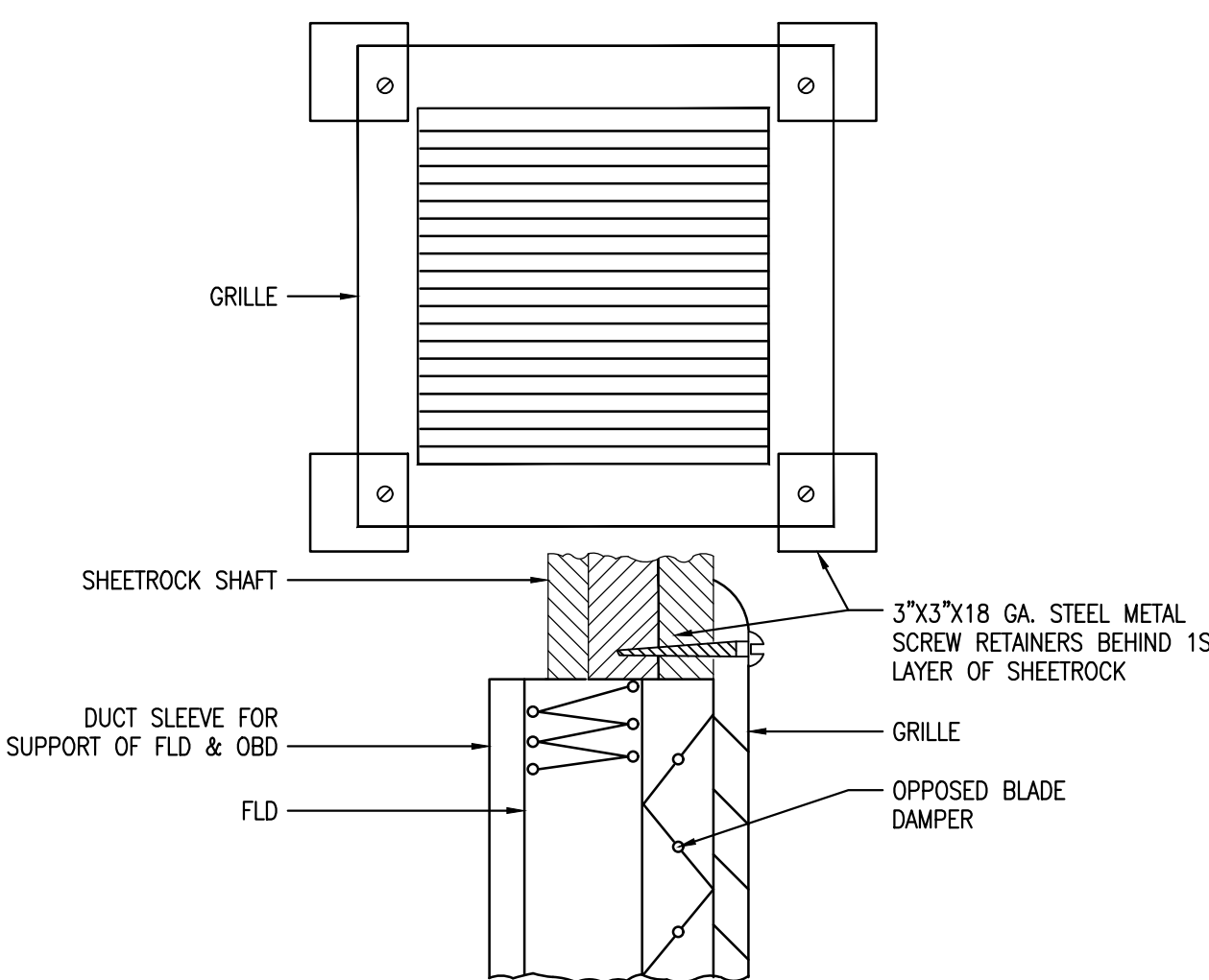
- NOTE/ACCESSORIES:
- PROVIDE WITH CONDENSATE PUMP, RESERVOIR AND LEAK DETECTION SENSOR.
 - PROVIDE MOUNTING ACCESSORIES AND VIBRATION ISOLATION AS REQUIRED FOR EACH MOUNTING TYPE.
 - COORDINATE POWER & WIRING REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
 - PROVIDE LOW AMBIENT KIT FOR OUTDOOR SECTIONS.
 - PROVIDE WITH CENTRAL CONTROLLER.
 - PROVIDE LINE-SET COVERS (DWSESTECH SPEED-CHANNEL OR SIMILAR) WHERE LINE-SETS ARE LOCATED AT FINISHED LOCATIONS.

HEAT PUMP SCHEDULE											
TAG	SERVICE	BASIS OF DESIGN MANUF.	MODEL NO.	NOMINAL CAPACITY (TONS)	ELECTRICAL DATA				WEIGHT	SEER 2	REMARKS
					VOLTAGE	FLA	MCA	MOCP			
HP-1	BATH & UTILITY	MITSUBISHI	SUZ-AA18NLHZ	1.5	208/14/60	-	25.0	42.0	115	16.2	ALL

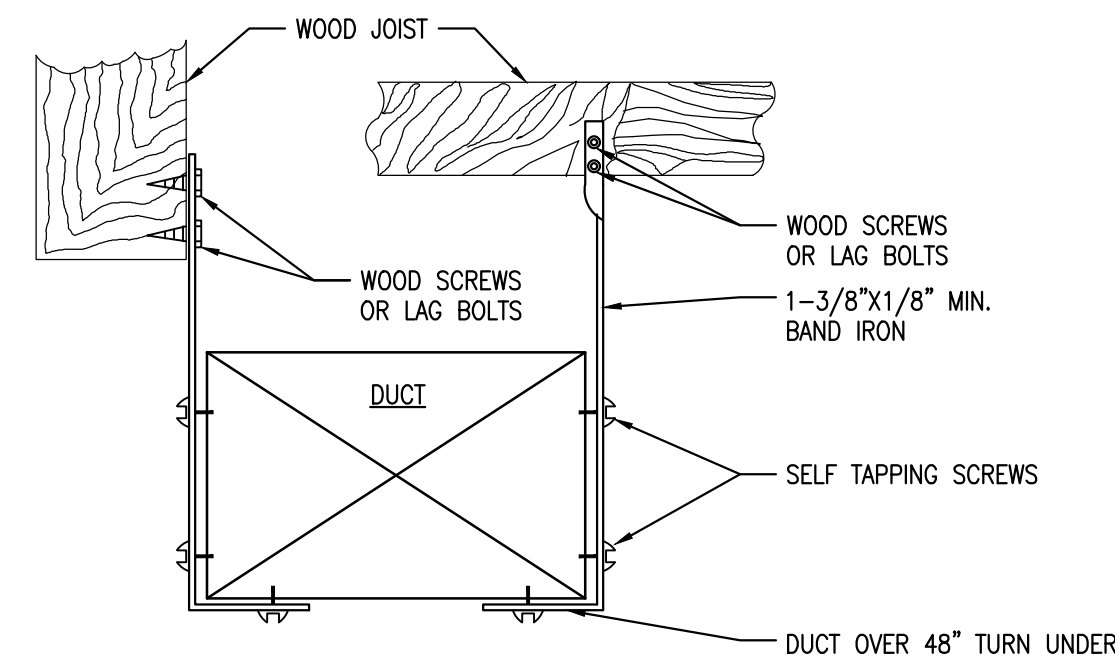
- NOTES/ACCESSORIES:
- PROVIDE WITH CRANKCASE HEATER, TIME OFF CONTROL AND LOW AMBIENT KIT.
 - REFRIGERANT PIPE SIZES ARE O.D. AC&R COPPER TUBING. LENGTH AND SIZES SHALL BE VERIFIED WITH MANUFACTURER.
 - DISCONNECT SWITCH SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
 - PROVIDE WITH LOW AMBIENT OPERATION FOR HEATING AND COOLING.
 - PROVIDE LOCKING REFRIGERANT PORT ACCESS CAPS.

FAN SCHEDULE												
TAG	SERVICE	BASIS OF DESIGN MANUF.	MODEL NO.	TYPE	CFM	SP. IN. W.G.	FRPM	HP/WATTS	VOLTAGE	NOISE LEVEL (SONES)	CONTROL	REMARKS
EF-1	BATHROOMS	PANASONIC	FV-0511VKS3S	CEILING	70	0.25	920	8.6 WATTS	120/14/60	<0.3	OCCUPANCY SENSOR	1-5, 7
EF-2	UTILITY ROOM	PANASONIC	FV-0511VKS3S	CEILING	30	0.25	934	5.6 WATTS	120/14/60	<0.3	CONSTANT	1-4, 6, 7

- NOTES/ACCESSORIES:
- PROVIDE WITH FACTORY CEILING RADIATION FIRE DAMPER TO MATCH ASSEMBLY RATING WHERE REQUIRED.
 - REFER TO PLANS FOR QUANTITIES.
 - PROVIDE THERMOSTAT, RELAYS, TRANSFORMERS AND WIRING AS REQUIRED TO OPERATE SYSTEM.
 - PROVIDE WITH VARIABLE SPEED CONTROL AND DELAY TIMER.
 - PROVIDE WITH MULTI-SPEED CONTROLLER AND MOTION SENSOR (FV-04WK3).
 - FAN SHALL OPERATE AT CONSTANT SPEED 30CFM (ADJ.).
 - PROVIDE AND COORDINATE MOUNTING ACCESSORIES FOR REQUIRED MOUNTING TYPE.



06 METHOD OF SECURING GRILLE TO SHEET ROCK SHAFT DETAIL
SCALE: NOT TO SCALE



08 METHOD OF HANGING DUCTWORK DETAIL
SCALE: NOT TO SCALE

ELECTRIC HEATER SCHEDULE										
TAG	LOCATION	TYPE	BASIS OF DESIGN MANUF.	MODEL	HEATING CAPACITY		ELECTRICAL DATA		REMARKS	
					BTUH	KW	VOLTAGE/PH/Hz	AMP		
WHU-1	UTILITY ROOM / BATHROOMS	WALL UNIT HEATER	INDEECO	933W-31SD-S	5,118	1.5	120/14/60	12.5	ALL	

- NOTES/ACCESSORIES:
- REFER TO PLANS FOR QUANTITIES.
 - COORDINATE WITH FINAL COLOR, FINISH AND EXACT LOCATION WITH ARCHITECT.
 - DISCONNECT BY M.C.
 - UNIT SHALL BE SEMI-RECESSED/SURFACE MOUNTED. SEE PLANS AND COORDINATE WITH INTERIORS. PROVIDE WITH ALL MOUNTING ACCESSORIES REQUIRED FOR MOUNTING TYPE.
 - THERMOSTAT INTEGRAL TO UNIT HEATER.
 - BATHROOM UNIT HEATERS TO BE SET FOR FREEZE PROTECTION ONLY.

BURLINGTON COUNTY AGRICULTURAL CENTER
2026 IMPROVEMENTS
500 CENTERION ROAD, MOORESTOWN, NJ
BLOCK 8801, LOT 2.3 & 3Q FARM
MOORESTOWN TWP. BURLINGTON COUNTY, NEW JERSEY

No.	Date	Revision							

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Municipal Consulting
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M2.0

AS SHOWN
DATE: 06/30/26
DRAWN BY: RNV
JOB NO: 25134

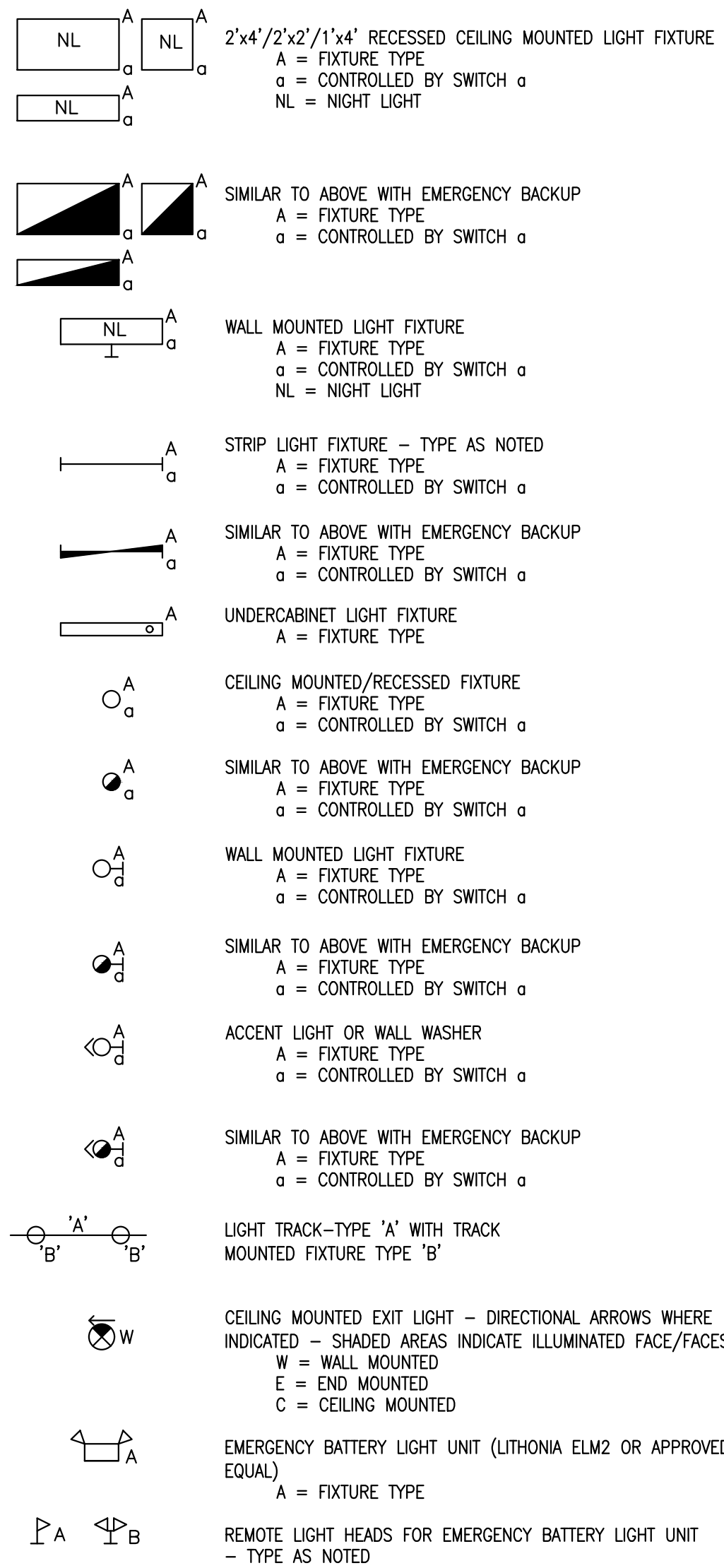
MECH SCHEDULES & DETAILS

Bowman
457
KENNETH CUNNINGHAM, P.E.
PROFESSIONAL ENGINEER
NJ Lic. No. 2460812560

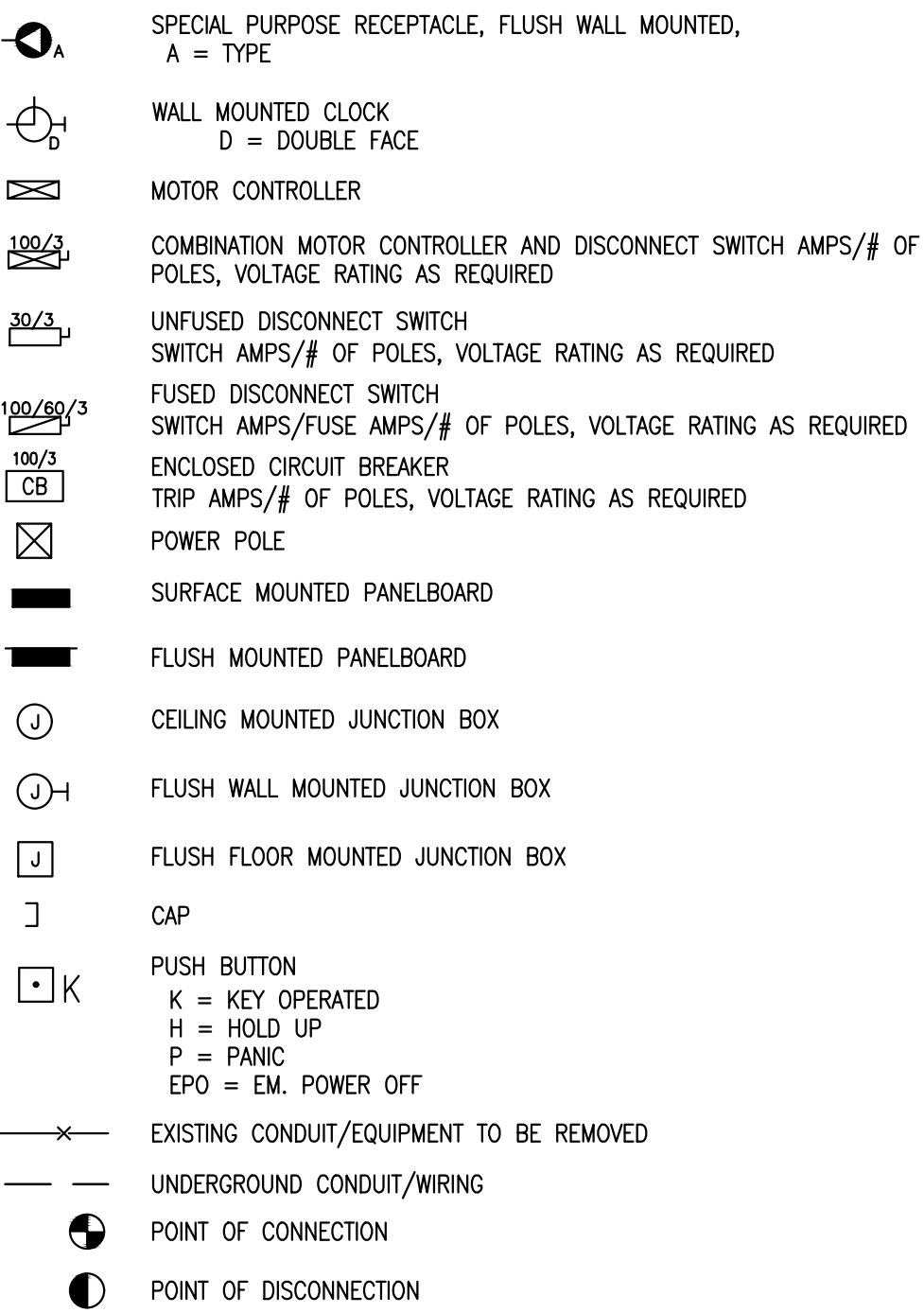
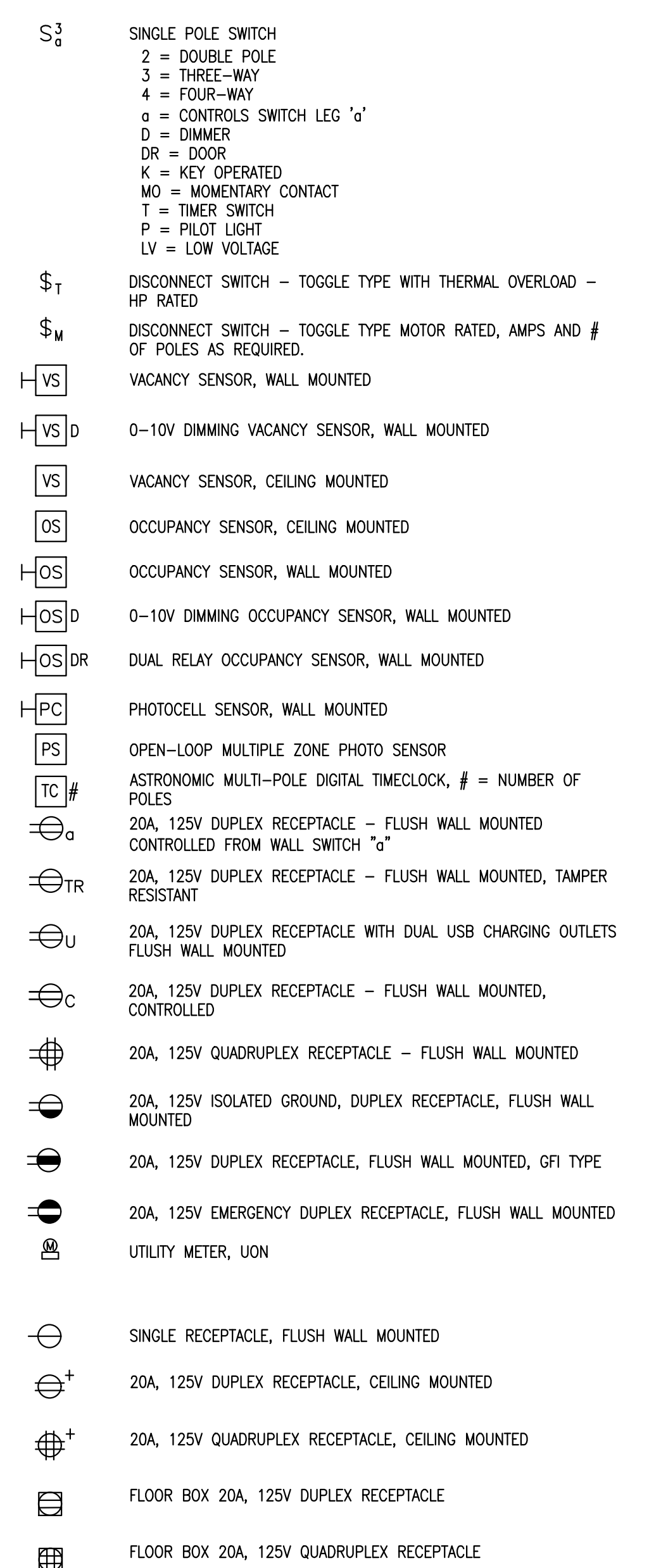
ELECTRICAL SYMBOLS LIST

(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

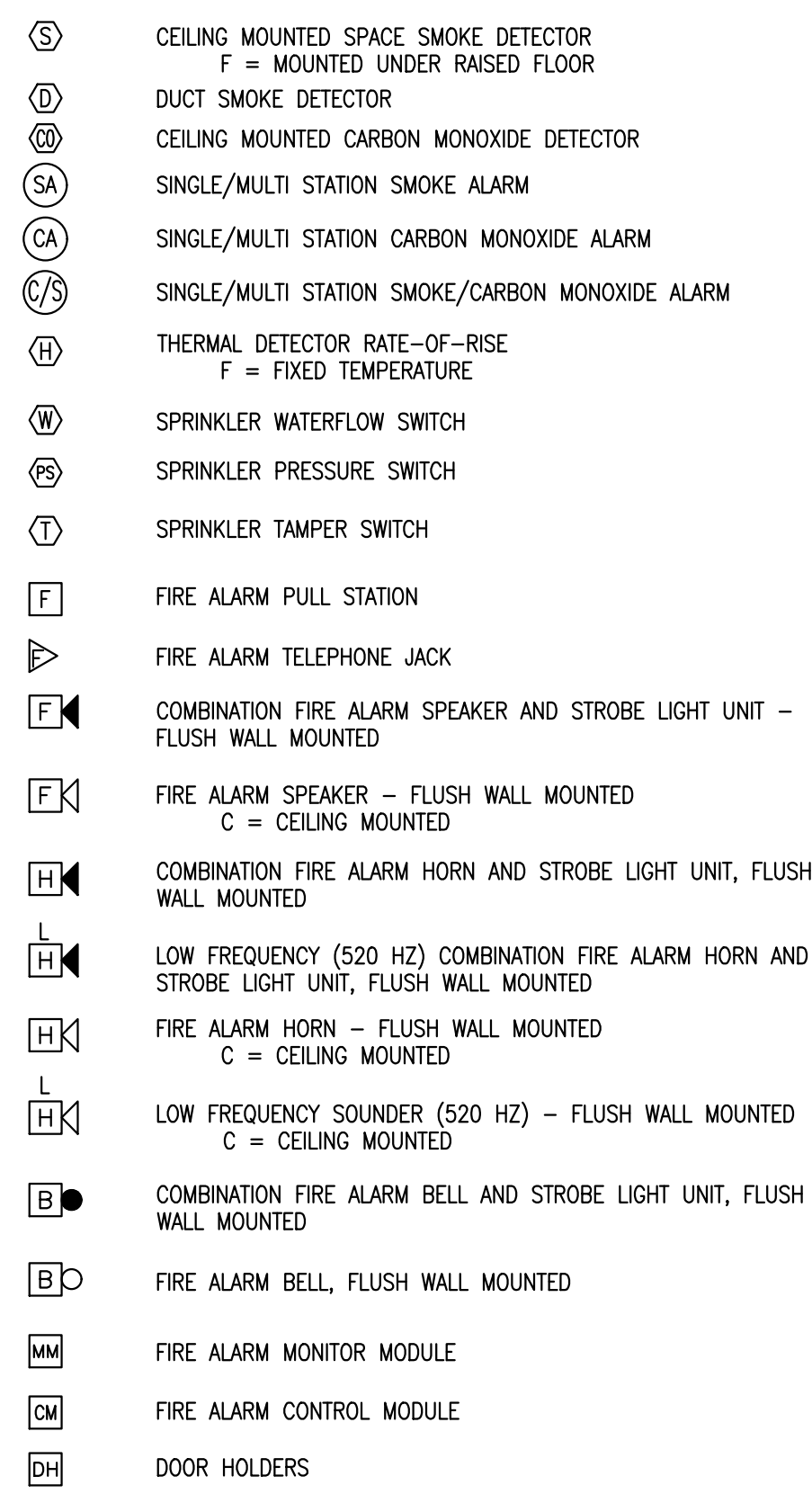
LIGHTING SYMBOLS



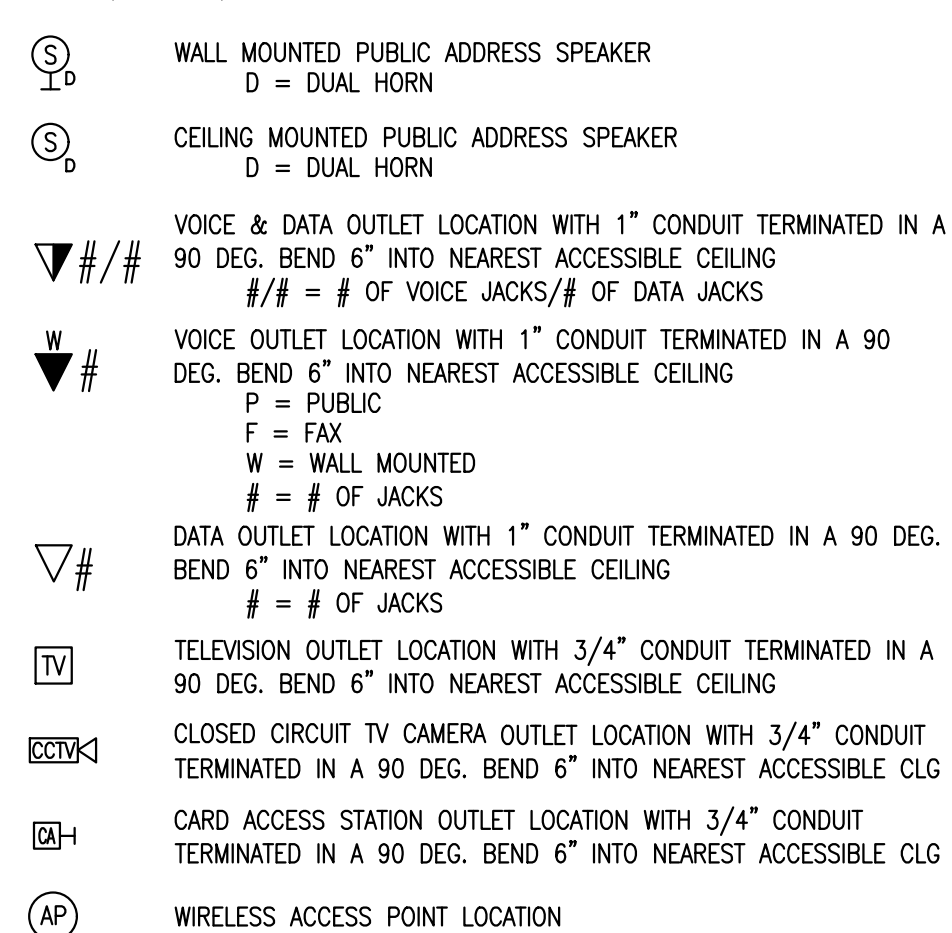
POWER SYMBOLS



FIRE ALARM SYMBOLS



VOICE/DATA/P.A. SYMBOLS



ABBREVIATIONS

(NOT ALL ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT)

1P	SINGLE POLE	JIB	JUNCTION BOX
2P	TWO POLE	KMIL	THOUSAND CIRCULAR MILS
3P	THREE POLE	KV	KILOVOLT
A	AMPERE	KVA	KILOVOLT AMPERE
ACB	ABOVE COUNTER	KW	KILOWATT
AC	AIR CIRCUIT BREAKER	KWH	KILOWATT HOUR
AFF	ABOVE FINISHED FLOOR	LFMC	LIGHTTIGHT FLEXIBLE
AFJ	ABOVE FINISHED GRADE	LFNC	METALIC CONDUIT
AJX	AUTHORITY HAVING JURISDICTION		LIQUIDTIGHT FLEXIBLE
AIC	AMPERE INTERRUPTING CAPACITY		NON-METALLIC CONDUIT
AL	ALUMINUM	LIM	LINE ISOLATION MONITOR
ALM	ALARM	LIT	LIGHTING
AMM	AMMETER	MAP	MEDICAL GAS ALARM PANEL
ARF	ABOVE RAISED FLOOR	MAX	MAXIMUM
ATS	AUTOMATIC TRANSFER SWITCH	MC	METAL CLAD, MECH. CONTRACTOR
AUTO	AUTOMATIC	MCA	MIN. CIRCUIT AMPERES
AV	AUDIO VISUAL	MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MCC	MOTOR CONTROL CENTER
BFC	BELOW FINISHED CEILING	MDP	MAIN DISTRIBUTION PANEL
BG	BREAK GLASS SWITCH	MECH	MECHANICAL
BL	BASIC IMPULSE LEVEL	MER	MECHANICAL ROOM
BUDG	BUILDING	MFR	MANUFACTURER
CAB	CABINET	MFS	MAIN FUSED SWITCH
CAT	CATALOG	MH	MANHOLE, METAL HALIDE
CONDUIT	CONDUIT	MP	MICROPHONE
CB	CIRCUIT BREAKER	MIN	MINIMUM
CCTV	CLOSED CIRCUIT TELEVISION	MLO	MAIN LUG ONLY
CKT	CIRCUIT	MOP	MAX. OVERCURRENT PROTECTION
CL	CENTER LINE	MOPD	MAX. OVERCURRENT PROTECTION
CLG	CEILING	MTD	MOUNTED
CTL	CONTROL	MTG	MOUNTING
CO	CONDUIT ONLY	MTS	MANUAL TRANSFER SWITCH
COM	COMMUNICATION	N	NEUTRAL
CONN	CONNECTED	(N)	NEW
CONT	CONTINUATION	NC	NORMALLY CLOSED
CT	CURRENT TRANSFORMER	NIC	NOT IN CONTRACT
CU	COPPER	NO	NORMALLY OPEN
CUH	CABINET UNIT HEATER	NTS	NOT TO SCALE
DB	DECEBEL	OC	ON CENTER
DE	DUAL ELEMENT FUSE(S)	OCB	OIL CIRCUIT BREAKER
DEG	DEGREE	OD	OUTSIDE DIAMETER
°	DEGREE CELSIUS	OH	OVERHEAD
°F	DEGREE FAHRENHEIT	P	POLE
DIA	DIAMETER	PA	PUBLIC ADDRESS
DISC	DISCONNECT	PB	PULL BOX
DIV	DIVISION	PBS	PUSH BUTTON SWITCH
DN	DOWN	PC	PLUMBING CONTRACTOR
DP	DISTRIBUTION PANEL BOARD	PH	PIPE HEATING CABLE
DS	DISCONNECT SWITCH	PH	PHASE
DWG	DRAWING	PNL	PANEL
EA	EACH	PR	PRIMARY
EC	ELECTRICAL CONTRACTOR	PT	POTENTIAL TRANSFORMER
ELEV	ELEVATION	PWR	POWER
ELEC	ELECTRICAL	RCS	REMOTE CONTROL SWITCH
ELEV	ELEVATOR	(RE)	RELOCATED EXISTING
EM	EMERGENCY	REC	RECEPTACLE
EMT	ELECTRICAL METALLIC TUBING	REF	REFRIGERATOR
ENCL	ENCLOSURE	REQ	REQUIRED
EQ	EQUIPMENT	RM	ROOM
(ER)	EXISTING SHALL BE REMOVED	RGS	RIGID GALVANIZED STEEL CONDUIT
(ERR)	EXISTING SHALL BE REMOVED & RELOCATED	(RRG)	EXISTING SHALL BE REMOVED AND RETURN TO OWNER
ERC	ELECTRIC REHEAT COIL	SAP	SCHEDULE
EV	ELECTRIC VEHICLE	SCH	SCHEDULE
EVSE	ELECTRIC VEHICLE SERVICE EQUIPMENT	SE	SERVICE ENTRANCE
EWC	ELECTRIC WATER COOLER	SEC	SECONDARY
EXISTEX	EXISTING	SECT	SECTION
EXT	EXTERIOR	SN	SOLID NEUTRAL
FA	FIRE ALARM	SPEC	SPECIFICATION
FAA	FIRE ALARM ANNUNCIATOR PANEL	SPKR	SPEAKER
FACP	FIRE ALARM CONTROL PANEL	SPR	SPRINKLER
FBO	FURNISHED BY OTHERS	SPD	SURGE PROTECTION DEVICE
FCU	FAN COIL UNIT	SW	SWITCH
FDR	FEEDER	SWBD	SWITCHBOARD
FDS	FUSED DISCONNECT SWITCH	SYS	SYSTEMS
FIXT	FIXTURE	SWST	SUBSTATION
FL	FLOOR	SWT	SWITCHGEAR
FLA	FULL LOAD AMPERES	TBD	TO BE DETERMINED
FLEX	FLEXIBLE	TEL	TELEPHONE
FLUOR	FLUORESCENT	TEMP	TEMPERATURE
FP	FIRE PROTECTION	TERM	THERMOSTAT
FRZ	FREEZER	TP	TAMPER PROOF
FT	FEET OR FOOT	TS	TAMPER SWITCH
G	GROUND	TV	TELEVISION
GC	GENERAL CONTRACTOR	TY	TYPICAL
GEN	GENERATOR	UH	UNIT HEATER
GFI	GROUND FAULT INTERRUPTER	UG	UNDERGROUND
HID	HIGH INTENSITY DISCHARGE	UON	UNLESS OTHERWISE NOTED
HP	HORSE POWER	V	VOLT OR VOLTAGE
HPCS	HIGH PRESSURE CONTACT SWITCH	VA	VOLT AMPERE
HT	HEIGHT	VFD	VARIABLE FREQUENCY DRIVE
HV	HIGH VOLTAGE	VM	VOLTMETER
HZ	HERTZ	VPR	VAPORPROOF
ID	INSIDE DIAMETER	W	WATT
IG	ISOLATED GROUND	WP	WEATHERPROOF
INC	INCANDESCENT	WT	WATER TIGHT
INCL	INCLUDED	WTR	WATER
INST	INSTRUMENT	XP	EXPLOSION PROOF
IPC	ISOLATED POWER CENTER		
IPX	ISOLATED POWER CENTER-X-RAY		

GENERAL FIRESTOPPING NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OR EXCEEDING WALL/CEILING/FLOOR FIRE ASSEMBLY RATINGS FOR ALL PENETRATIONS. CONTRACTOR SHALL VERIFY LOCATION AND RATING OF ALL FIRE ASSEMBLIES AND PROVIDE INTUMESCENT COLLARS AT ALL PENETRATIONS AND/OR FIRE RATED CAULKING AS REQUIRED.

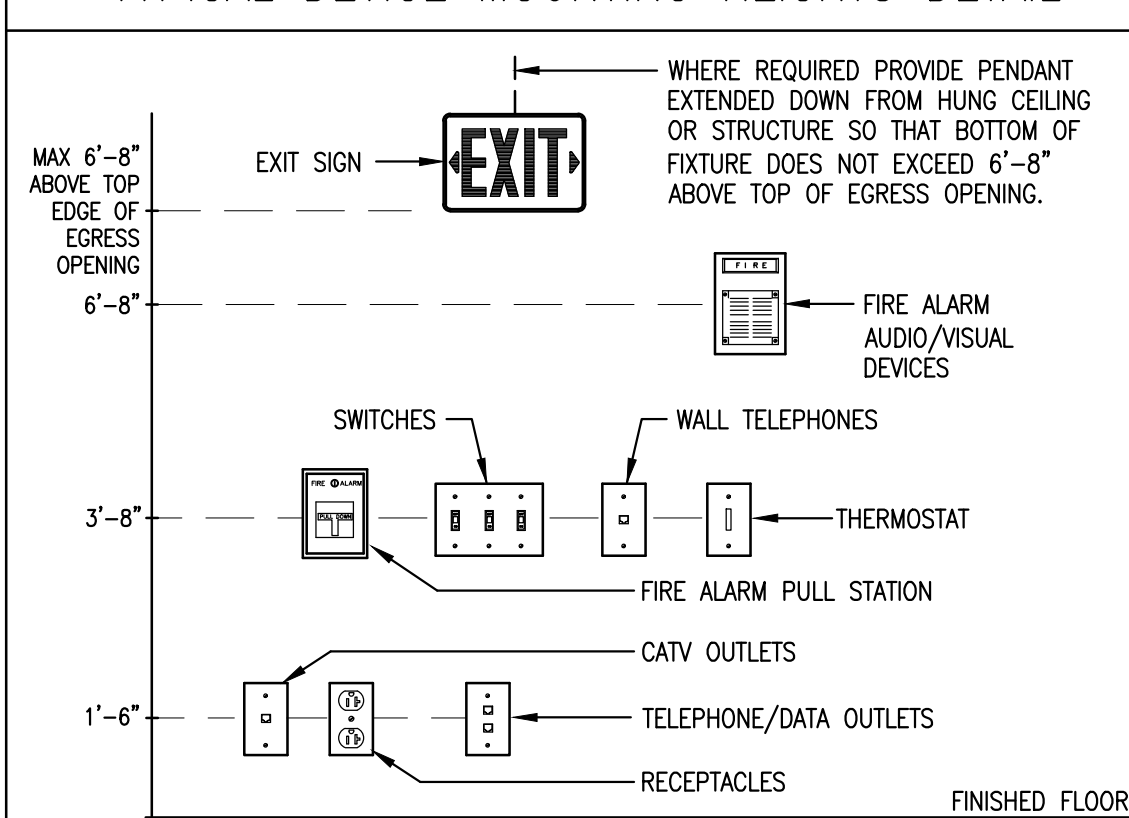
COMMISSIONING REQUIREMENTS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COMMISSIONING SERVICE, FROM A CERTIFIED COMMISSIONING AUTHORITY (CWA), FOR ALL LIGHTING CONTROLS AS REQUIRED.
- CWA AND CONTRACTOR SHALL PERFORM AND REVIEW ALL TESTING AND PROVIDE REPORTS AS REQUIRED.
- ALL COMMISSIONING AND REPORTING SHALL BE PERFORMED IN ACCORDANCE WITH ASHRAE GUIDELINE 90.1-2019 AND IECC-2021.

GENERAL ELECTRICAL NOTES:

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS AND FIELD DIMENSIONS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE REQUIREMENTS.
- PERFORM ALL WORK IN STRICT ACCORDANCE WITH NATIONAL ELECTRICAL CODE (N.E.C.-2020) AS ADOPTED BY THE STATE OF NEW JERSEY, OSHA REQUIREMENTS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL OWNER REQUIREMENTS.
- WHERE THERE IS A DISCREPANCY BETWEEN MATERIAL OR EQUIPMENT IN THE DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL ASSUME THE MORE STRINGENT, HIGHER QUALITY AND MORE EXPENSIVE OPTION FOR BIDDING.
- INCLUDE ALL TEMPORARY POWER AND LIGHTING, PERMIT, LICENSE, AND INSPECTION COSTS IN BID.
- CONTRACTOR SHALL ISSUE IN WRITING TO ARCHITECT/ENGINEER ANY SCOPE OF WORK DISCREPANCIES AND/OR QUESTIONS PRIOR TO SUBMISSION OF BID.
- CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS AND VISIT THE SITE TO BECOME ACQUAINTED WITH THE CONSTRUCTION, SITE AND THE EXTENT OF THE WORK PRIOR TO SUBMISSION OF BID.
- COORDINATE ALL REQUIRED SHUTDOWNS WITH THE OWNER (AND UTILITY COMPANY WHERE APPLICABLE) A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE. INCLUDE OVERTIME COSTS IN BID TO PERFORM ALL SHUTDOWNS (INCLUDING SHUTDOWNS FOR AREAS WHICH MAY BE UNOCCUPIED DURING CONSTRUCTION) AFTER NORMAL WORKING HOURS AS COORDINATED WITH THE OWNER. NO EXTRA CLAIMS OR COMPENSATION SHALL BE GRANTED FOR OVERTIME COSTS ASSOCIATED WITH PERFORMING SHUTDOWNS.
- SECURE ALL SUPPORTS TO BUILDING STRUCTURE BY STEEL FOR VERTICAL SUPPORT AND BY MEANS OF TOGGLE BOLTS ON HOLLOW MASONRY UNITS, EXPANSION SHEELS IN CONCRETE OR BRICK. MACHINE SCREWS ON METAL SURFACE, AND WOOD SCREWS ON WOOD CONSTRUCTION. NAILS, RAWL OR WOOD PLUGS NOT PERMITTED. SUPPORT HORIZONTAL RUNS OR METALLIC CONDUITS NOT MORE THAN 10 FT. APART. SUPPORT RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
- PASS RACEWAYS OVER WATER, STEAM, OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 IN. OF STEAM OR HOT WATERS PIPES, OR APPLIANCES, EXCEPT CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1 IN. FROM PIPE COVER.
- FURNISH FISH WIRE IN EACH RACEWAY RUN OVER 10 FT IN WHICH WIRING IS NOT INSTALLED.
- CUT STEEL CONDUIT ENDS SQUARE, REAM SMOOTH, PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH CONDUIT COUPLINGS.
- HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS NOT PERMITTED.
- ROUTE ALL CONDUITS AND CABLES PARALLEL OR PERPENDICULAR TO BUILDING LINES WHERE POSSIBLE.
- CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT (MINIMUM 18 IN. LENGTH AND 50% SLACK). DO NOT TERMINATE IN OR FASTER RACEWAYS TO MOTOR FOUNDATION.
- PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS. COMMON BOXES. PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL WIRING.
- LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS
- WIRE COLOR CODING: PER CODE, WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT
- PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F (0°C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.
- SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIRESTOPPING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
- VERIFY EXACT LOCATIONS AND MOUNTING HEIGHT OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, OUTLETS, FIRE ALARM DEVICES, VOICE/DATA DEVICES AND OTHER EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND IN THE FIELD PRIOR TO ROUGH-IN. IN CENTERING OUTLETS AND LOCATION BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT VARIATIONS IN FIREPROOFING AND PLASTERING. WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE, AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
- A "*" SYMBOL NEXT TO A DEVICE INDICATES A NON-STANDARD DEVICE MOUNTING HEIGHT - CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH ARCHITECT AND INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
- PROVIDE PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES.
- FOR EMPTY RACEWAY RUNS, PROVIDE PULL BOXES EVERY 100FT AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.
- JUNCTION AND PULL BOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACES. WHERE NECESSARY, REROUTE CONDUITS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE.
- SUPPORT JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUITS.
- ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
- FIRESTOPPING SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED CONSTRUCTION.
- THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, BALANCES THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION, SHOP AND RECORD DRAWINGS AND APPROVALS.
- DEMONSTRATE PERFORMANCE AND CAPACITY OF ALL SYSTEMS AND EQUIPMENT.
- AT COMPLETION OF PROJECT, PROVIDE NEW UPDATED TYPE WRITTEN PANELBOARD DIRECTORIES FOR ALL NEW PANELBOARDS AND ANY EXISTING PANELBOARDS THAT HAVE BEEN MODIFIED.
- PROVIDE REPRODUCIBLE "AS BUILT" DRAWINGS INDICATING AS-INSTALLED CONDITIONS AFTER COMPLETION OF THE INSTALLATION.
- THE CONTRACTOR SHALL GUARANTEE AND SERVICE THE ENTIRE INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE FINAL ACCEPTANCE OF THE INSTALLATION.
- THE CONTRACTOR SHALL, DURING THE PERIOD OF THE GUARANTEE, REPLACE OR REPAIR AT HIS OWN EXPENSE ANY PIECE OF EQUIPMENT AND/OR MATERIAL WHICH IS FOUND TO BE DEFECTIVE. THE REPLACEMENT OR REPAIR SHALL BE DONE AS SOON AS NOTIFIED BY THE ENGINEER OR AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ALSO REPAIR ALL DAMAGE TO SURROUNDING WORK CAUSED BY THE FAILURE, REPAIR OR REPLACEMENT OF DEFECTIVE EQUIPMENT.
- THE CONTRACTOR SHALL COORDINATE LOCATION(S) OF ALL PLENUM RATED SPACE(S) WITH THE M.C. EC SHALL PROVIDE METAL CONDUIT OR MC CABLE WITHIN PLENUM RATED SPACE(S).
- THESE DRAWINGS HAVE BEEN DESIGNED AND ENGINEERED BASED ON VISUAL INSPECTIONS OF THE EXISTING BUILDING AND INFRASTRUCTURE PRIOR TO ANY DEMOLITION. SOME ASSUMPTIONS HAVE BEEN MADE AS TO ACTUAL CONSTRUCTION, MATERIALS, AND METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL ACTUAL FIELD CONDITIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES, CONFLICTS, AND UNFORESEEN CONDITIONS.

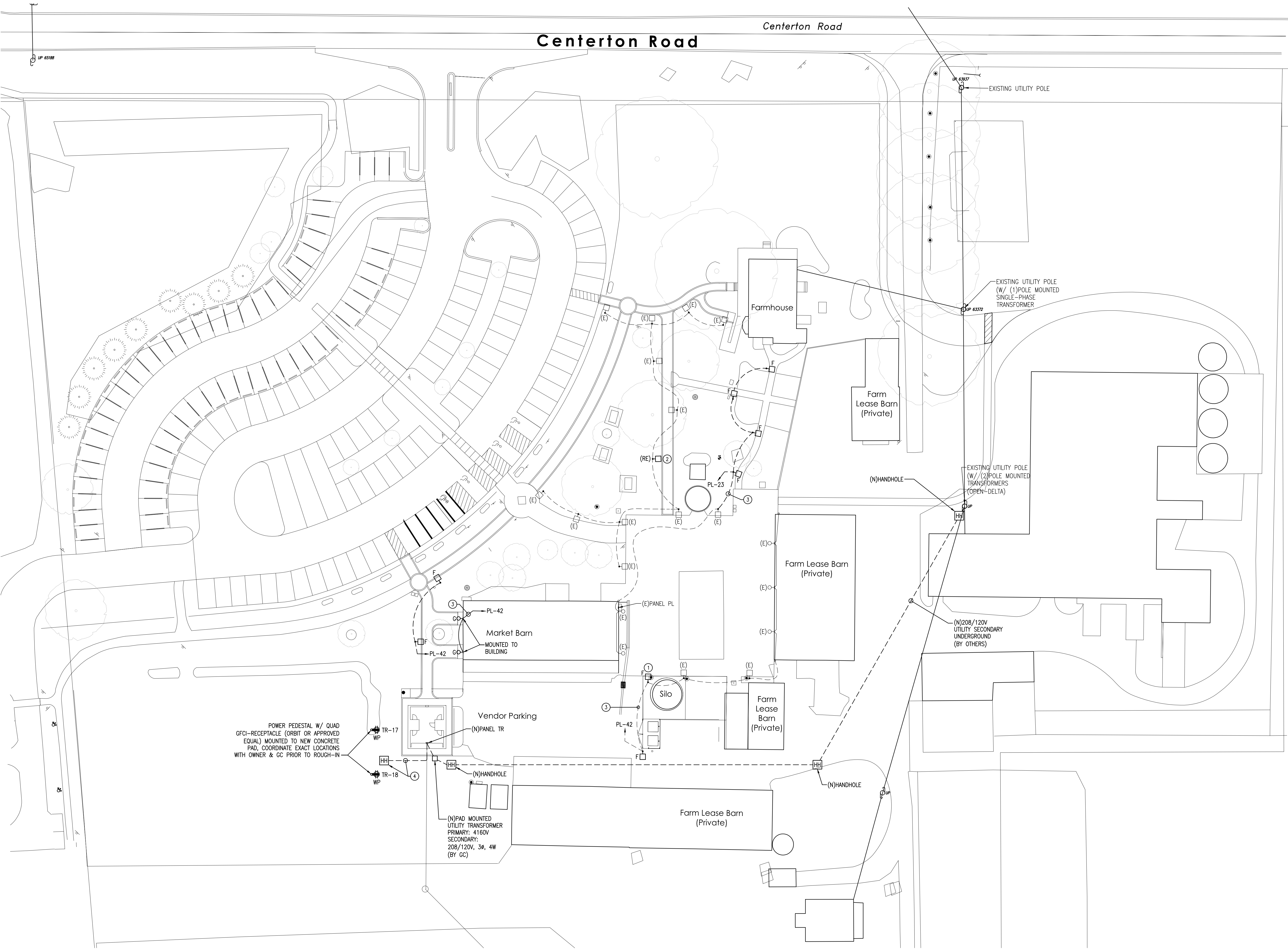
TYPICAL DEVICE MOUNTING HEIGHTS DETAIL



NOTES:

- ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT EXIT SIGNS. EXIT SIGNS SHALL COMPLY WITH NFPA 101, 7.10.1.9.
- DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
- ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DETAIL UNLESS OTHERWISE NOTED OR REQUIRED BY CODE (INCLUDING ADA REQUIREMENTS). FOR DEVICES INDICATED WITH AN ADJACENT "*" SYMBOL, COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
- COORDINATE ALL LOCATIONS WITH ARCHITECTURAL PLANS.
- OPERABLE DEVICES INSTALLED IN ALL ACCESSIBLE COMMON AREAS SHALL BE MOUNTED BETWEEN 15" & 44" AFF AND/OR IN ACCORDANCE WITH ANSI A117.1 REQUIREMENTS - CONFIRM EXACT MFG HT AND LOCATION WITH ARCHITECT.

No.	Date	Revision



KEY NOTES:

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE, SALVAGE FOR REUSE (SEE KEYED NOTE 2). INSTALL NEW TYPE 'D' POLE MOUNTED LIGHT FIXTURE AT SAME LOCATION AND TIE INTO EXISTING UNDERGROUND LIGHT CIRCUIT 'PL-42'.
2. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE & INSTALL SALVAGED LIGHT FIXTURE AT SAME LOCATION. TIE INTO EXISTING UNDERGROUND LIGHT CIRCUIT 'PL-23'.
3. EXTEND EXISTING BRANCH CIRCUIT TO NEW LIGHT FIXTURE LOCATION.
4. EC PROVIDE (3) 1-1/2" EMPTY CONDUITS WITH PULLSTRING FROM PANEL 'TR' UNDERGROUND TO NEW HANDHOLE LOCATION AS INDICATED. CONFIRM EXACT LOCATION IN FIELD WITH OWNER AND GC PRIOR TO ROUGH-IN.

01 ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"

ELECTRICAL SITE PLAN

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**BURLINGTON COUNTY AGRICULTURAL CENTER
2026 IMPROVEMENTS**
500 CENTERTON ROAD, MOORESTOWN, NJ
BLOCK 8801, LOT 2.3 & 3Q FARM
MOORESTOWN TWP, BURLINGTON COUNTY, NEW JERSEY

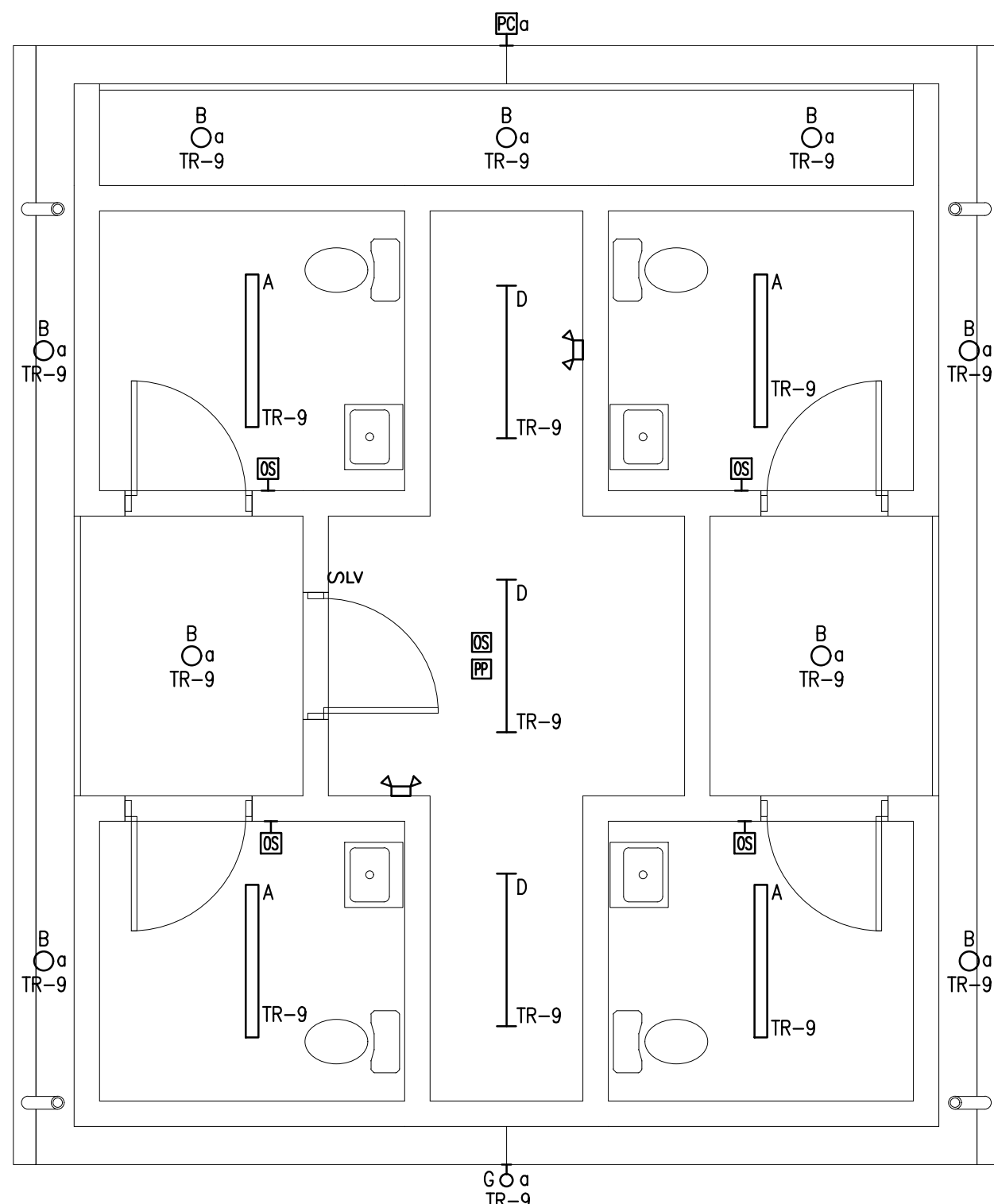
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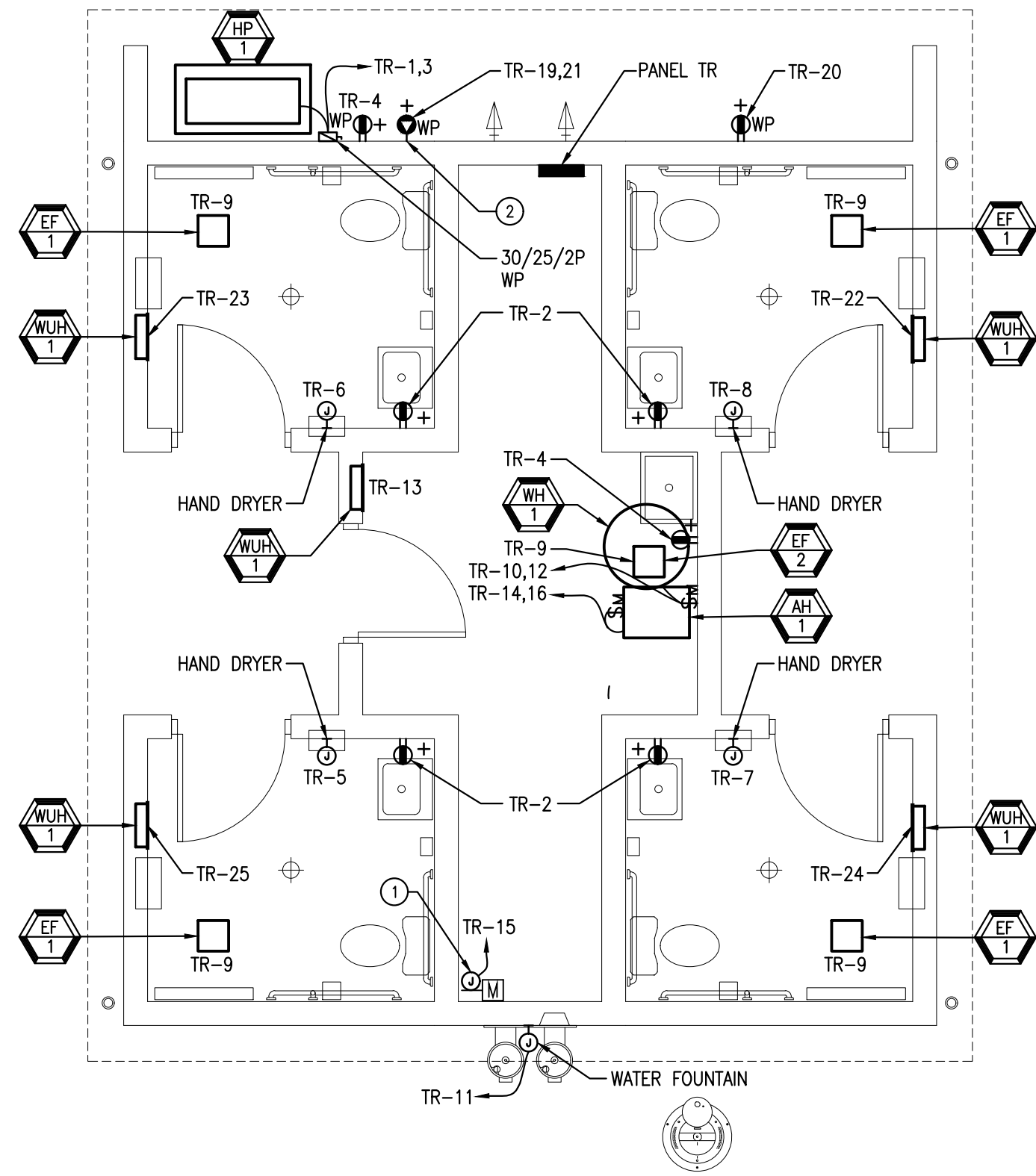
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01 ELECTRICAL FLOOR PLAN – LIGHTING
SCALE: 1/4" = 1'-0"



02 ELECTRICAL FLOOR PLAN – POWER
SCALE: 1/4" = 1'-0"

DRAWING NOTES:

1. A 24" MINIMUM SEPARATION SHALL BE MAINTAINED BETWEEN SINGLE AND TWO-GANG RECESSED DEVICE BOXES INSTALLED ON OPPOSITE SIDES OF ANY 2-HOUR (MAXIMUM) FIRE-RATED WALL/PARTITION. PROVIDE FIREPROOFING PUTTY PACKS OR OTHER FIREPROOFING LISTED FOR THIS PURPOSE WHERE REQUIRED BY SECTION 714.4.2 OF THE INTERNATIONAL BUILDING CODE. DO NOT INSTALL FLUSH-MOUNTED PANELBOARD BACK BOXES IN FIRE RATED WALLS. ALL EQUIPMENT AND DEVICES ARE NEW UNLESS OTHERWISE NOTED.
2. CONFIRM ALL DEVICE AND EQUIPMENT LOCATIONS WITH THE ARCHITECT AND OWNER PRIOR TO ANY PURCHASE OR ROUGH-IN.
3. CONFIRM ALL POWER OVERCURRENT PROTECTION, WIRING AND DEVICE/DISCONNECT REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ROUGH-IN AND REPORT ANY DISCREPANCY WITH THE DESIGN TO THE ARCHITECT AND OWNER FOR RESOLUTION.
4. PROVIDE ALL DISCONNECT SWITCHES AS HEAVY-DUTY TYPE RATED WITH VOLTAGE AS REQUIRED AND AMPS, FUSING AND POLES AS INDICATED. DISCONNECT SWITCHES FOR INTERIOR EQUIPMENT SHALL BE NEMA 1 RATED UON. DISCONNECT SWITCHES FOR EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF LOCKABLE HEAVY DUTY TYPE, NEMA 3R UON.
5. COORDINATE ALL MECHANICAL AND PLUMBING EQUIPMENT LOCATIONS AND CONNECTIONS PRIOR TO ANY PURCHASE OR ROUGH-IN.
6. CONTRACTOR SHALL CLOSELY COORDINATE AND ADJUST ALL HVAC EQUIPMENT LOCATIONS WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN SUCH THAT LIGHTING LAYOUT REMAINS AS INDICATED.
7. PRE-MANUFACTURED METAL-CLAD CABLE (MC) MAY BE UTILIZED FOR ALL NORMAL BRANCH CIRCUITS IN DRY HOLLOW STUD WALL LOCATIONS, ABOVE ACCESSIBLE CEILINGS AND WHERE PERMITTED BY ARTICLE #330 OF THE NATIONAL ELECTRICAL CODE ONLY. MINIMUM CONDUCTOR SIZE SHALL BE NO. 12 AWG COPPER WITH INTEGRAL GREEN INSULATED CONTINUOUS GROUND CONDUCTOR AND BARE BONDING CONDUCTOR IN DIRECT CONTACT WITH OUTER METAL JACKET.
8. EC SHALL FIRE CAULK ALL EXISTING AND NEW CONDUIT PENETRATIONS IN FIRE WALLS WITHIN CONTRACT AREA TO
9. PROVIDE LOCKABLE, EXTRA-DUTY, IN-USE WEATHERPROOF (WP), METALLIC COVER, SIMILAR TO HUBBELL TAYMAC MK3200 FOR ALL WEATHERPROOF RECEPTACLES.
10. ALL CONDUITS TRAVELING FROM OUTDOORS TO INDOORS AND FROM A WARM ENVIRONMENT TO COLD SHALL BE VAPOR SEALED TO PREVENT CONDENSATION BUILDUP. THE SEAL SHALL BE A CONDUIT BODY OR JUNCTION BOX LOCATED ON THE HIGH TEMPERATURE SIDE OF THE TRANSITION SEALED WITH ELECTRICAL DUCT SEAL OR A NON-LATEX, CLOSED CELL, EXPANDING FOAM SEALANT LISTED FOR THE PURPOSE, INSTALLED IN THE CONDUIT ENTERING THE COLDER SPACE.
11. CONNECT ALL EXIT SIGNS, INVERTERS, EMERGENCY WALL PACKS, AND EMERGENCY BATTERY BACK-UPS TO LOCAL CONSTANT HOT FEED AHEAD OF ANY SWITCHING UON.
12. ALL LIGHT FIXTURES INDICATED AS EMERGENCY ARE NORMAL/EMERGENCY OPERATION VIA NORMAL POWER W/BATTERY OR INVERTER BACK UP.
13. REFER TO DWG E2.0 FOR THE LIGHT FIXTURE SCHEDULE.
14. LIGHTING CONTROLS SHALL BE TESTED BY THE EC IN ACCORDANCE WITH ASHRAE 90.1 SECTION 9.4.3.

KEY NOTES:

- ① PROVIDE JUNCTION BOX FOR MOTORIZED DAMPER CONTROL CIRCUIT. COORDINATE FINAL REQUIREMENTS AND LOCATION WITH MC PRIOR TO ROUGH-IN.
- ② PROVIDE RECEPTACLE WITH OUTDOOR RATED WP LOCKING COVER. CONFIRM NEMA CONFIGURATION PRIOR TO PURCHASE OR ROUGH-IN.

ELECTRICAL FLOOR PLANS

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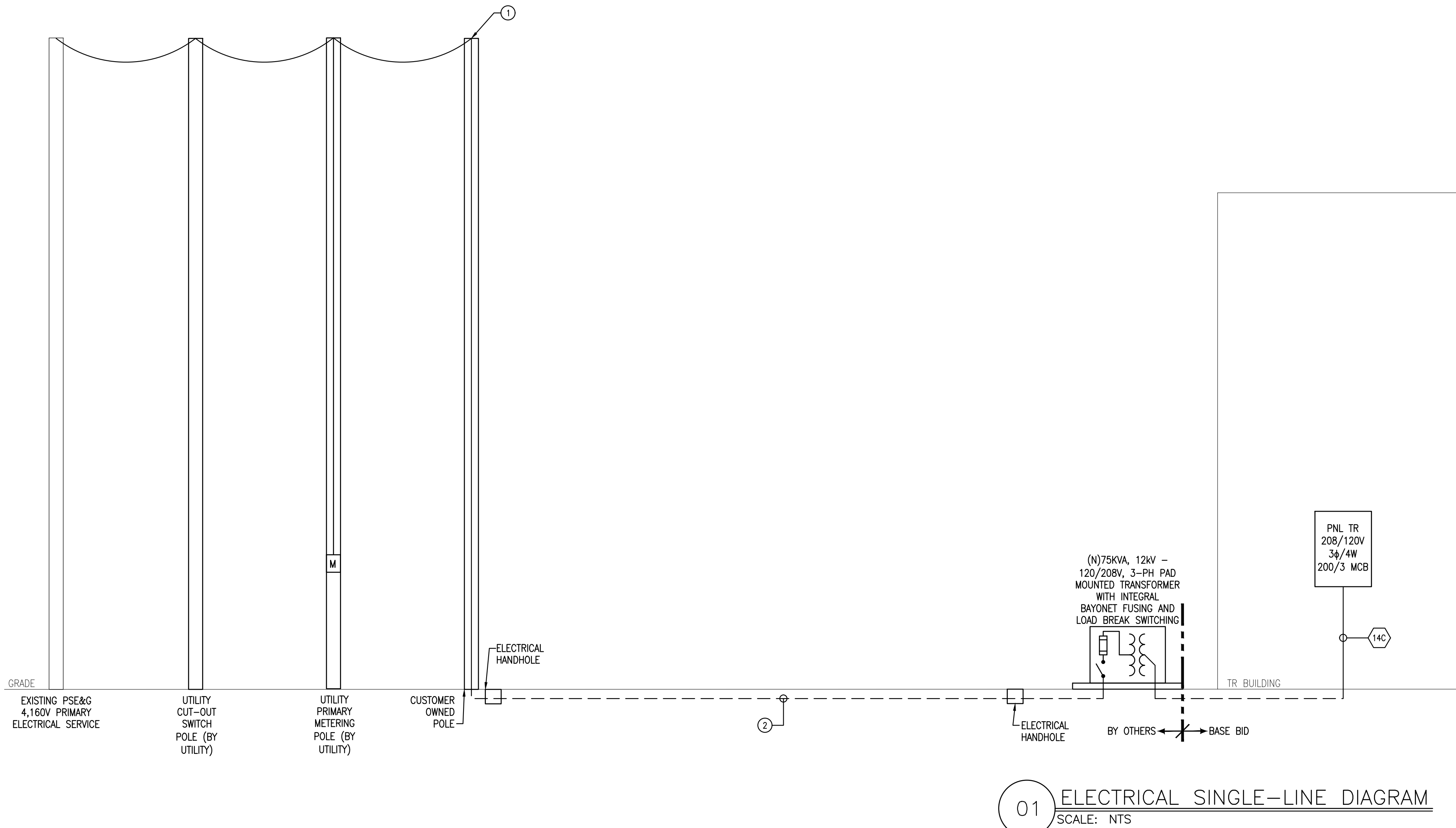
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PANEL: TR		208 Y/120 VOLTS		3 PHASE			4 WIRE		MAIN BUS		AMPS	
LOCATION: BCC AGRICULTURAL CENTER				MOUNTING: SURFACE			FLUSH		MAIN BRK 200 AMPS		3 P	
BUILDING: RESTROOM BUILDING				BUS: COPPER			ALUMINUM		NEUTRAL 100% A/C			
FED FROM: SEE SINGLE LINE DIAGRAM				GROUND BUS: ISOL GND BUS			THRU-FEED LUGS		LUGS ONLY			
FEEDER SIZE: SEE SINGLE LINE DIAGRAM							INTEGRAL SPD					
CKT NO	TRIP AMPS	DESCRIPTION OF LOAD	MIN WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	MIN WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO
1	40/2	HF-1	5B	2600	3320	2960		720	2A	REC - TOILET ROOMS	201	2
3				2800		2960		360	2A	REC - OUTDOOR & STORAGE	201	4
5	20/1	HAND DRYER	2A	1000		2000		1000	2A	HAND DRYER	201	6
7	20/1	HAND DRYER	2A	1000		2000		1000	2A	HAND DRYER	201	8
9	20/1	LTO & EXHAUST FANS	2A	363		2547		2194	2A	WH-1	302	10
11	20/1	WATER FOUNTAIN	2A	0				2184				12
13	20/1	WUH-1	2A	1500	1812			312	2A	AH-1	202	14
15	20/1	MOTORIZED DAMPER	2A	100		412		312				16
17	20/1	REC - ON GRADE EVENTS	2A	360				360	2A	REC - ON GRADE EVENTS	201	18
19	50/2	REC - FUTURE PORTABLE A/C	5B	2400	2580			180	2A	REC - OUTDOOR GFCI	201	20
21				2400		3600		1500	2A	WUH-1	201	22
23	20/1	WUH-1	2A	1500				1500	2A	WUH-1	201	24
25	20/1	WUH-1	2A	1500	1500			0	-	SPARE	201	26
27	20/1	SPARE	-	0		0		0	-	SPARE	201	28
29	20/1	SPARE	-	0		0		0		SPARE		30
31	20/1	SPARE	-	0	0			0		SPARE		32
33		SPARE	-	0		0		0		SPARE		34
35		SPARE	-	0				0		SPARE		36
37		SPARE	-	0	0			0		SPARE		38
39		SPARE	-	0		0		0		SPARE		40
41		SPARE	-	0				0		SPARE		42
CONNECTED x FACTOR = DEMAND				TOTAL BY PHASE		11212 9819 7504		TOTAL DEMAND LOAD = 24217 VA				
TOTAL LTO 328				TOTAL BY PHASE		11212 9819 7504		TOTAL AMPS = 67.2 AMPS				
TOTAL COND. 0				TOTAL BY PHASE		11212 9819 7504						
TOTAL NON-C 4134				TOTAL BY PHASE		11212 9819 7504						
TOTAL REC. 1980				TOTAL BY PHASE		11212 9819 7504						
TOTAL A/C 4800				TOTAL BY PHASE		11212 9819 7504						
TOTAL HTG 11692				TOTAL BY PHASE		11212 9819 7504						
TOTAL COIN 26995				TOTAL BY PHASE		11212 9819 7504						

NOTE:
THE ABOVE SCHEDULE IS BASED ON 600 VOLT AL WIRE,
TYPE THHN/XHHW AND EMT/RGS CONDUIT
EX: $\sqrt{24}$ = 2#12+1#12S, 3/4" C.

WIRE AND CONDUIT SIZING SCHEDULE (ALUMINUM)									
WIRE SIZE (AWG/KCMIL)				NO. OF WIRES & CONDUIT SIZE IN INCHES					
AMPS	TAGS	CONDUCTOR PHASE & NEUTRAL	GROUND	A 1PH, 2W+G	B 1PH/3PH, 3W+G	C 3PH, 4W+G			
15	1	12	12	3/4	3/4	3/4			
20	2	12	10	3/4	3/4	3/4			
30	3	10	8	3/4	3/4	3/4			
40	4	8	8	3/4	3/4	3/4			
50	5	6	8	3/4	1	1			
60	6	4	8	1	1 1/4	1 1/4			
70	7	3	6	1	1 1/4	1 1/4			
80	8	2	6	1 1/4	1 1/4	1 1/4			
90	9	2	6	1 1/4	1 1/4	1 1/4			
100	10	1	6	1 1/2	2	2			
125	11	2/0	4	2	2 1/2	2 1/2			
150	12	3/0	4	2	2 1/2	2 1/2			
175	13	4/0	4	2 1/2	2 1/2	2 1/2			
200	14	250	4	2 1/2	3	3			
225	15	300	2	3	3	3 1/2			
250	16	350	2	3	3	3 1/2			
275	17	500	2	3 1/2	3 1/2	4			
300	18	500	2	3 1/2	3 1/2	4			
350	19	600	1	3 1/2	4	5			
400	20	750	1	4	4	5			
450	21	(2) 300	(2) 1/0		(2) 3	(2) 3 1/2			
500	22	(2) 350	(2) 1/0		(2) 3	(2) 3 1/2			
600	23	(2) 500	(2) 2/0		(2) 2 1/2	(2) 3			
700	24	(2) 600	(2) 3/0		(2) 4	(2) 5			
800	25	(2) 750	(2) 3/0		(2) 4	(2) 5			
1000	26	(4) 350	(4) 4/0		(4) 2	(4) 3 1/2			
1100	27	(4) 500	(4) 250		(4) 2	(4) 3 1/2			
1200	28	(4) 500	(4) 250		(4) 2	(4) 3 1/2			
1500	29	(4) 750	(4) 350		(4) 4	(4) 4			
1600	30	(5) 600	(5) 350		(4) 4	(4) 4			
1900	31	(8) 350	(8) 400		(8) 3	(8) 3 1/2			
2000	32	(8) 350	(8) 400		(8) 3	(8) 3 1/2			
2500	33	(7) 750	(7) 600		(8) 3 1/2	(8) 4			
3000	34	(8) 750	(8) 600		(8) 4	(8) 5			

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER/ CATALOG #	LAMP DATA			FIXT WATTS	FIXT VOLTS	MOUNTING	REMARKS
			QTY	TYPE	WATTS				
A	6" X 48" LINEAR LED	COLUMBIA LIGHTING #CNW4-A-LSCS		INCL LED	41	41	120V	SURFACE	PROVIDE WITH ACRYLIC WRAP AROUND LENS AND WHITE HOUSING.
B	6" WET-LOCATION RECESSED SWITCHABLE LED DOWNLIGHT	RAB#CRLEDFA-6R-245-9CCT-UNV		INCL LED	24	24	120-277V	RECESSED	BRONZE FINISH ULTRIM/CRLEDFA6R-BRS
D	4' LED STRIP	COLUMBIA LIGHTING #LCL-4-35-ML-E-U		INCL LED	52	52	120-277V	SURFACE	
F	SITE POLE MOUNTED LED 16" DIA. WITH GLASS & WIRE GUARD AND STRAIGHT ARM POLE.	ANP LIGHTING #W516-MB-E24-200GLCLOUP-64M	1	LED	22	22	120-277V	POLE	PROVIDE WITH SATCO NUVO #S49671 - 22 WATT LED BULB.
G	SITE BUILDING MOUNTED LED 16" DIA. WITH GLASS & WIRE GUARD AND STRAIGHT ARM POLE.	ANP LIGHTING #W516-MB-E24-200GLCLOUP-64M	1	LED	22	22	120-277V	SURFACE	PROVIDE WITH SATCO NUVO #S49671 - 22 WATT LED BULB.

NOTES:
1. PROVIDE WITH OUTDOOR MOTION SENSOR WITH PHOTOCELL SUCH AS MANUFACTURED BY RAB LIGHTING; PRODUCT #STL360. FINAL LOCATION TO BE DETERMINED IN THE FIELD BY ARCHITECT.

DRAWING NOTES:

- PROVIDE ALL SERVICE ENTRANCE AND GROUNDING IN ACCORDANCE WITH THE NJ ADOPTED VERSION OF THE 2020 NEC REQUIREMENTS, REQUIREMENTS OF ATLANTIC CITY ELECTRIC AND AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL COORDINATE ALL SERVICE AND METERING WORK W/ATLANTIC CITY ELECTRIC. CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS AND FEES ASSOCIATED W/THE PROVISION OF THE NEW UNDERGROUND ELECTRICAL SERVICE AND METERING. CONTRACTOR SHALL MAKE ALL PROVISIONS REQUIRED BY THE UTILITY COMPANY.
- PROVIDE ALL GROUNDING IN ACCORDANCE WITH ARTICLE 250 OF THE NJ ADOPTED VERSION OF THE 2020 EDITION OF THE NEC AND AUTHORITY HAVING JURISDICTION.
- EC SHALL PROVIDE LEGIBLE AND PERMANENT IDENTIFICATION OF DISCONNECTING MEANS. FIELD APPLIED IDENTIFICATION SHALL INDICATE PURPOSE OF EQUIPMENT OR DEVICE; SHALL BE PERMANENTLY AFFIXED; AND SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT. HANDWRITTEN LABELS ARE UNACCEPTABLE. LABELING SHALL MEET ALL REQUIREMENTS OF NEC 110.22.
- EC SHALL PROVIDE PERMANENTLY MOUNTED PLACARD SHOWING A/C RATING, LEVEL OF PPE REQUIRED, AND DATE CALCULATED.

KEY NOTES:

- UTILITY OVERHEAD MEDIUM VOLTAGE SERVICE CONNECTION POINT. EC SHALL PROVIDE UTILITY POLE (PER UTILITY STANDARDS) WITH CROSS-MEMBERS FOR MOUNTING FUSED CUTOFF SWITCHES. COORDINATE LOCATION WITH OWNER'S SITE/CIVIL ENGINEER. PROVIDE (3) 15KV, TYPE K FUSES, 12 KAIC FUSE HOLDERS, CUTOFF SWITCHES MOUNTED TO UTILITY POLE CROSS MEMBERS, FUSED AT 200 AMPS.
- PROVIDE (3)#2 AL 15KV MV-105 133% EPR CABLE IN 4" CONDUIT

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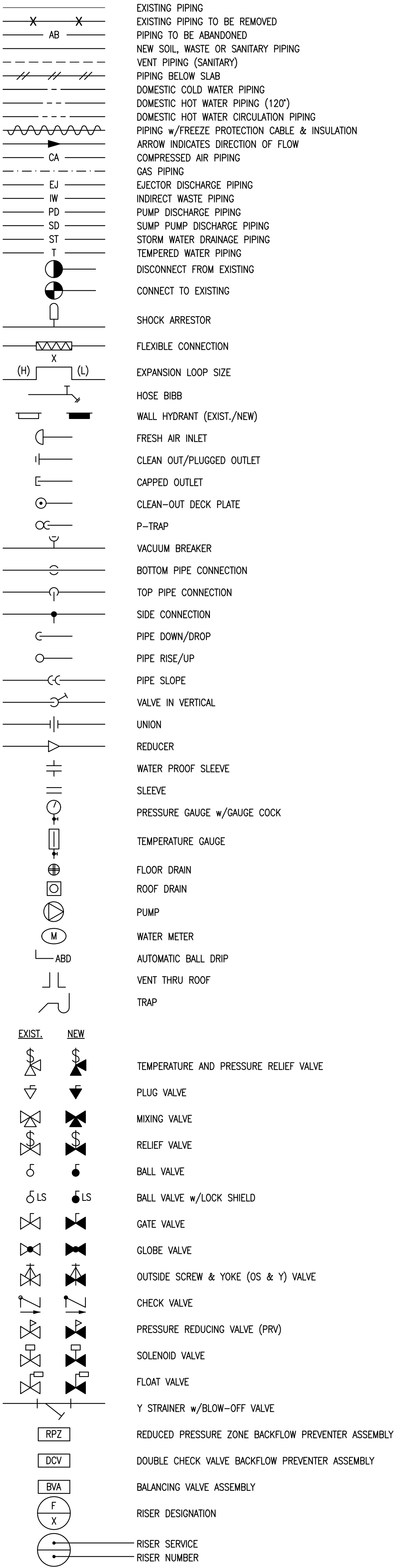
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PLUMBING BASIC SYMBOLS

(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)



PLUMBING ABBREVIATIONS

(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
BUDG	BUILDING
BOP	BOTTOM OF PIPE
CO	CLEANOUT
COOP	CLEANOUT DECK PLATE
CW	COFFEE MAKER
CV	CHECK VALVE
CVO	CAPPED AND VALVED OUTLET
CW	COLD WATER
CLG	CEILING
CONN	CONNECT
CONT	CONTINUATION
DM	DAMETER
DN	DOWN (PENETRATES FLOOR SLAB)
DR	DRAIN
DWG	DRAWING
(E)	EXISTING
(ER)	EXISTING TO BE REMOVED
(ERR)	EXISTING TO BE REMOVED & RELOCATED
EJ DIS	EJECTOR DISCHARGE
EL	ELEVATION
EWC	ELECTRIC WATER COOLER
FAI	FRESH AIR INLET
FD	FLOOR DRAIN
FU	FIXTURE UNIT
FL	FLOOR
FLH	FLOOR HYDRANT
FT	FEET
GC	GENERAL CONTRACTOR
GALLONS	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIBB
HCLG	HUNG CEILING
HW	HOT WATER
HWR	HOT WATER RETURN
ID	INSIDE DIAMETER
IN	INDIRECT WASTE
IN	INCH
JS	JANITOR'S SINK
LAV	LAVATORY
MAP	MEDICAL GAS ALARM PANEL
MAX	MAXIMUM
MIN	MINIMUM
MR	MOP RECEPTOR
(N)	NEW
NC	NORMALLY CLOSED
NTS	NOT IN THIS CONTRACT
NO	NORMALLY OPEN
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PO	PLUGGED OUTLET
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH (GAUGE)
RD	ROOF DRAIN
(RE)	RELOCATED EXISTING
(RRO)	EXISTING TO BE REMOVED AND RETURNED TO OWNER
SA	SHOCK ARRESTOR
SAN	SANITARY
SD	STORM DRAIN
SH	SHOWER
SK	SINK
SLV	SLEEVE
SO FT	SQUARE FOOT
ST	STORM
TYP	TYPICAL
UN	UNLESS OTHERWISE NOTED
UP	PENETRATES FLOOR SLAB
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
ZCVB	ZONE CONTROL VALVE BOX

PLUMBING GENERAL NOTES

- CONTRACTOR SHALL PROVIDE AND PAY ALL FEES AND PERMITS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS INCLUDING BUT NOT LIMITED TO INTERNATIONAL, NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES WHICH MAY BE IN EFFECT. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
- WHERE THERE IS A DISCREPANCY BETWEEN MATERIAL OR EQUIPMENT IN THE DRAWINGS AND/OR SPECIFICATIONS, THE PLUMBING CONTRACTOR SHALL ASSUME THE MORE STRINGENT, HIGHER QUALITY AND MORE EXPENSIVE OPTION FOR BIDDING.
- DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS. CONTRACTOR SHALL INSTALL ALL WORK WITHOUT CONFLICT WITH OTHER TRADES AND MAKE ALTERATIONS AS REQUIRED WITHOUT ADDITIONAL COST TO OWNER. CONTRACTOR SHALL INCLUDE ALL NEEDED OFFSETS, CHANGES IN DIRECTION, TRANSITIONS, COLLARS, FITTINGS, ETC. NEEDED FOR COMPLETE AND OPERATIONAL SYSTEMS.
- ALL COMPONENTS OF THE DOMESTIC WATER SYSTEM SHALL CONFORM TO THE FEDERAL "REDUCTION OF LEAD IN DRINKING WATER ACT" AS DEFINED PER SDWA IN SECTION 1417(D). THE WETTED AREA EXPOSED TO DRINKING WATER SHALL BE LEAD FREE.
- COORDINATE WORK WITH OTHER TRADES SO THAT ALL COMPONENTS SHALL BE INSTALLED IN THE PROPER PLACE AT THE PROPER TIME. COORDINATE WITH ELECTRICAL CONTRACTOR TO ASSURE DOMESTIC WATER AND ELECTRICAL WIRING ARE NOT INSTALLED IN SAME STUD BAY IN WALLS AND CEILINGS.
- SANITARY PIPING SHALL BE SLOPED ON A DOWNWARD PITCH AT A MINIMUM OF 1/4" PER FOOT FOR 2" SIZES AND LESS. PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT, AND IN ALL CASES CONFORMING TO JURISDICTIONAL CODE REQUIREMENTS.
- PROVIDE ACCESSIBLE DRAINAGE SYSTEM CLEANOUTS, EFFECTIVELY PLACED FOR EACH TOILET, SINK, BASE, AND AT CHANGE IN DIRECTION AND SPACING AS REQUIRED BY CODE, WHETHER INDICATED ON PLANS OR NOT. PROVIDE ALL ADDITIONAL SYSTEM CLEANOUTS REQUIRED FOR THOROUGH CLEANING.
- FOR SOLDERED JOINTS, CLEAN THE ENDS OF ALL COPPER TUBING BEFORE ASSEMBLY. APPLY FLUX AND TIN THE ENDS OF TUBING 2 INCHES AND LARGER.
- BALL TYPE CONTROL SHUTOFF VALVES SHALL BE INSTALLED ON EACH BRANCH FROM THE DOMESTIC WATER SUPPLY MAINS AND ON EACH ISOLATED FIXTURE BRANCH, INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION.
- FLUSH CONTROLS FOR WATER CLOSETS MUST BE LOCATED ON THE "APPROACH" OR OPEN SIDE OF THE TANK, TO COMPLY WITH UFAS SECTION 4.16.5.
- ALL PIPING ON EXTERIOR WALLS SHALL BE PROTECTED FROM FREEZING.
- PROVIDE DIELECTRIC FITTINGS WHEN JOINING DISSIMILAR METALS.
- EXPOSED PIPING AND FITTINGS AT FIXTURES SHALL BE CHROME PLATED L.P.S. BRASS. ESCUTCHEON PLATES SHALL BE PROVIDED ON ALL PIPE WHICH PASS THROUGH WALLS, PARTITIONS, FLOORS OR CEILINGS AND SHALL BE THE SPLIT RING TYPE, STEEL CONSTRUCTION.
- SCHEDULE 40 STEEL SLEEVES SHALL BE PROVIDED WHERE PIPING PASSES THROUGH WALLS, FLOORS OR PARTITIONS. SLEEVES SHALL BE ONE PIPE SIZE LARGER THAN THE PIPE SYSTEM. THE ANNULAR SPACE BETWEEN SLEEVE AND PIPE SHALL BE SEALED, UNLESS FIRESTOPPING IS REQUIRED PER THE ARCHITECT'S SPECIFICATIONS.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND DETAILS.
- ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE AND THE LATEST CODE REQUIREMENTS AND THE AUTHORITY HAVING JURISDICTION. SYSTEM MATERIALS SHALL BE UNIFORM THROUGHOUT THE BUILDING.
- ALL EQUIPMENT AND MATERIALS SHALL, AS A MINIMUM, HAVE A WORKING PRESSURE AS DETERMINED BY CODES, ASME (OR SIMILAR OTHER BODY) AND OF NOT LESS THAN 125 PSI.
- CLEAN ALL PIPE BEFORE ERECTION. REAM ALL PIPE ENDS AFTER CUTTING.
- FOR SCREWED JOINTS APPLY NON-CORROSIVE, NON-HARDENING TEFLON PIPE TAPE OR SUITABLE COMPOUND TO MALE THREADS ONLY. CAULKING AND PACKING OF THREADS IS PROHIBITED.
- INSTALL EXPOSED PIPE LINES PARALLEL WITH BUILDING WALLS OR STRUCTURE. DO NOT EMBED PIPING IN CONCRETE FILL, NOR INSTALL WHERE THERE IS A POSSIBILITY OF FREEZING.
- PITCH PIPING TO PERMIT AIR VENTING THROUGH THE FIXTURES. ALLOW FOR EXPANSION AND COMPLETE LOW POINT DRAINAGE.
- IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. IN ADDITION, THIS CONTRACTOR MUST COORDINATE WITH AN OWNER REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
- THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND NOTE ALL EXISTING CONDITIONS AS WELL AS ALL CONDITIONS TO BE MET. PRIOR TO BID SUBMISSION, LACK OF A THOROUGH UNDERSTANDING OF THE PROJECT SCOPE AND CONDITIONS SHALL NOT CONSTITUTE AN EXCUSE FOR ERRORS OR OMISSIONS, NOR FOR A REQUEST FOR EXTRA COMPENSATION.
- IT IS CRITICAL THAT THE PLUMBING CONTRACTOR FIELD VERIFIES ALL INVERTS PRIOR TO BID SUBMISSION. IF ANY CONFLICTS EXIST BETWEEN THE NEW PLUMBING SYSTEMS AND THE EXISTING SITE LEVEL SYSTEMS, THEY SHOULD BE BROUGHT TO THE ATTENTION OF AN OWNER'S REPRESENTATIVE AND THE ENGINEER PRIOR TO BID SUBMISSION. EXTRA COMPENSATION SHALL NOT BE ALLOWED FOR ANY EXTRA WORK WHICH RESULTS FROM AN INABILITY TO MEET THE INVERTS OF THE EXISTING SITE LEVEL PIPING SYSTEMS.
- THE PLUMBING CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS-BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT CONCEALED OR EMBEDDED PIPING, PIPING CONNECTIONS AND ACCESS DOORS. THESE DRAWINGS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM BID DOCUMENTS.
- RUN ALL DOMESTIC, WASTE, VENT AND GAS PIPING AS HIGH AS POSSIBLE THROUGHOUT ENTIRE BUILDING. INSTALL LONG RUNS OF PIPING WITHIN STEEL (LAST) SPACE AND OTHER PIPING TIGHT TO BOTTOM OF STEEL. COORDINATE AND VERIFY WITH OTHER CONTRACTORS AS NOT TO INTERFERE WITH DUCTWORK, FIRE PROTECTION PIPING, LIGHTING SYSTEMS, ETC.
- ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS. VERTICAL DROP FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES, WALLS, SOFFITS WITH OTHER MECHANICAL / ELECTRICAL FEEDS. ALL SUCH LOCATIONS ARE TO BE REVIEWED WITH AN OWNER REPRESENTATIVE AND ARCHITECT PRIOR TO INSTALLATION.
- FINAL CONNECTIONS TO ALL GAS FIRED APPLIANCES TO BE BY THE PLUMBING CONTRACTOR, REGARDLESS OF WHO PROVIDES APPLIANCE. THIS SHALL INCLUDE BUT NOT BE LIMITED TO HVAC EQUIPMENT, COOKING EQUIPMENT, EMERGENCY GENERATORS AND DOMESTIC HOT WATER HEATERS. EACH PIECE OF EQUIPMENT SHALL BE PROVIDED WITH A DIRT LEG, LUBRICATED PLUG VALVE, UNION, GAS SHUT-OFF VALVE AND A FLEXIBLE STAINLESS STEEL CONNECTION.
- DOMESTIC WATER HEATER TEMPERATURE / PRESSURE RELIEF VALVES SHALL BE PIPED FULL SIZE TO THE NEAREST APPROVED STANDPIPE OR FLOOR DRAIN. THIS REQUIREMENT SHALL BE APPLICABLE TO ALL DOMESTIC WATER HEATERS.
- ALL HAND SINKS SHALL HAVE IN-LINE WATER TEMPERING VALVES INSTALLED SO AS TO BE EASILY ACCESSIBLE. THESE TEMPERING VALVES SHALL BE SET TO DELIVER HOT WATER AT 105°F.
- WHERE APPLICABLE, DO NOT RUN VENTS THROUGH ROOF AT PRE-FINISH METAL ROOFING SYSTEMS. INSTEAD DIVERT VENT PIPING TO RUN UP THROUGH TYPICAL MEMBRANE ROOF. VENTS THROUGH ROOF SHALL NOT BE VISIBLE TO THE PUBLIC AND NOT LOCATED CLOSER THAN 10'-0" FROM ROOFTOP EQUIPMENT.
- THE PLUMBING CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATIONS AND CONNECTIONS OF THE HOSE BIBB. PLUMBER TO FURNISH AND INSTALL ALL PIPING AND EQUIPMENT AS PER MANUFACTURER'S INSTRUCTIONS. FURNISH AND INSTALL AN ACCESSIBLE SHUT-OFF VALVE FOR THE HOSE BIBB BRANCH SUPPLY. FINAL CONNECTION & INSTALLATION BY PLUMBING CONTRACTOR.
- PRIOR TO INSTALLING SYSTEMS, THE PLUMBING CONTRACTOR SHALL MEET WITH AN OWNER'S REPRESENTATIVE TO FIELD VERIFY THE EXACT LOCATION OF ALL PROPOSED EQUIPMENT WHICH MAY NOT BE CLEARLY INDICATED ON THE DRAWINGS.
- THE PLUMBING CONTRACTOR SHALL COORDINATE THE ENTIRE UNDERGROUND PLUMBING PIPING SYSTEM LOCATIONS AND INVERTS WITH THE GRADE BEAMS, INCLUDING TRENCH DRAINS AS WELL AS ALL OTHER UNDERGROUND SYSTEMS.
- PROVIDE TRAP PRIMERS TO ALL DRAINS ONLY WHEN REQUIRED BY CODE. VERIFY PRIOR TO SUBMITTING BID.
- REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE WALLS AND WALLS WHICH REQUIRE SEALING. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL FLOOR AND WALL PENETRATIONS WITH FIRE RATED SEALANT BEFORE FINAL PAINTMENT.
- PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL INDIRECT WASTE PIPING - SHALL BE COPPER WITH SOLDER JOINTS.
- PLUMBING CONTRACTOR SHALL RUN ALL PIPING TO AVOID REINFORCING AT ALL COLUMN LINES.
- FOR MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES, SEE ARCHITECTURAL DRAWINGS.
- ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN-LIKE MANNER IN ACCORDANCE WITH LOCAL CODES AND ALL AUTHORITIES HAVING JURISDICTION.
- VALVES SHALL NOT BE INSTALLED WITH THE OPERATING HANDLE POINTING DOWNWARD. RUN PIPING GENERALLY PARALLEL TO THE AXIS OF THE BUILDING, ARRANGED TO CONFORM TO THE BUILDING REQUIREMENTS AND TO SUIT THE NECESSITIES OF CLEARANCE OF DUCTS, FLUES, CONDUITS AND WORK OF OTHER TRADES AND CLOSE TO CEILING OR OTHER CONSTRUCTION AS PRACTICAL, FREE OF TRAPS OR BENDS.
- PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO WATER, STORM AND SANITARY LATERALS INSTALLED BY SITE CONTRACTOR.
- ALL PIPES, DUCT, CONDUIT AND OTHER PENETRATIONS OF RETURN AIR PLENUM, INCLUDING HANGERS AND SUPPORT SYSTEM PENETRATIONS OF TOP HORIZONTAL SHALL BE SEALED AIRTIGHT. ALL PIPING IN RETURN AIR PLENUMS SHALL BE CAST IRON, COPPER OR CPVC. PVC PIPING IS PROHIBITED IN RETURN AIR PLENUMS.
- PLUMBING CONTRACTOR SHALL REPLACE ANY PIPING SYSTEM AND COMPONENTS WHICH DO NOT PASS TESTING PROCEDURES SPECIFIED AND RE-TEST REPAIRED PORTIONS OF THE SYSTEM.
- PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL PLUMBING EQUIPMENT, EQUIPMENT SUPPLIED BY OTHERS, INCLUDING REQUIRED FAUCETS, STOPS, VALVES, FITTINGS, TRAPS, ETC.
- PLUMBING CONTRACTOR SHALL INSTALL PIPING SO AS NOT TO ENCRUSCH ON REQUIRED CLEARANCES ABOVE ANY ELECTRIC PANEL. NO PIPING SHALL BE INSTALLED DIRECTLY OVER ELECTRICAL PANELS AND NO PIPING SHALL BE INSTALLED WITH THE BOTTOM AT LESS THAN 6" ABOVE THE 4'-0" SPACE DIRECTLY IN FRONT OF ANY ELECTRIC PANELS.
- PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL AIR CHAMBERS PER NATIONAL STANDARD PLUMBING CODE ON ALL WATER SUPPLIES TO PLUMBING FIXTURES WITH QUICK CLOSING VALVES.
- PIPING HANGERS SHALL BE SPACED SO AS TO PREVENT SAG AND PERMIT PROPER DRAINAGE AND SHALL NOT BE SPACED MORE THAN EIGHT FEET APART UNLESS A GREATER SPACE IS DEEMED INDICATED ON THE DRAWINGS. A HANGER SHALL BE PLACED WITHIN (1) FOOT OF EACH HORIZONTAL ELBOW. HANGERS SHALL BE SIZED TO FIT OVER INSULATION AND BE PROVIDED WITH AN INSULATION SHIELDS.

- THE INSTALLATION OF ALL INSULATION SHALL BE PERFORMED BY AN EXPERIENCED CRAFTSMAN IN A NEAT WORKMAN-LIKE MANNER AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS FOR SERVICE INTENDED.
- ALL MATERIALS OF INSULATION SHALL BE OF THE TYPE AND QUALITY AS MANUFACTURED BY ARMSTRONG, CERTANTEED, OWENS-CORNING OR SCHULLER.
- ALL MATERIAL AND EQUIPMENT SPECIFIED TO BE INSULATED SHALL BE THOROUGHLY TESTED AND APPROVED PRIOR TO APPLYING THE INSULATION.
- DRAINAGE SYSTEM TEST
A. WATER TEST: THE ENTIRE DRAINAGE AND VENTING SYSTEM SHALL HAVE ALL NECESSARY OPENINGS PLUGGED TO PERMIT THE ENTIRE SYSTEM TO BE FILLED WITH WATER TO THE LEVEL OF THE HIGHEST VENT STACK ABOVE THE ROOF. THE SYSTEM SHALL HOLD THIS WATER FOR 30 MINUTES WITHOUT LEAKAGE. WHERE A "PORTION" OF THE SYSTEM IS TO BE TESTED, THE TEST SHALL BE CONDUCTED IN THE SAME MANNER, EXCEPT THAT A VERTICAL STACK 10 FEET ABOVE THE HIGHEST HORIZONTAL LINE TO BE TESTED SHALL BE INSTALLED AND FILLED WITH WATER TO MAINTAIN SUFFICIENT PRESSURE, OR A PUMP MAY BE USED TO SUPPLY THE PRESSURE. THE PRESSURE SHALL BE MAINTAINED FOR 30 MINUTES.
B. AIR TEST: IF TEST IS DONE WITH AIR, A PRESSURE OF 5 PSIG SHALL BE APPLIED WITH A FORCE PUMP AND MAINTAINED AT LEAST 15 MINUTES WITHOUT LEAKAGE. A MERCURY-COLUMN GAGE REGISTERING 10" IN HEIGHT SHALL BE USED IN THE AIR TEST. AIR TESTS SHALL NOT BE USED EXCEPT WHERE PERMITTED BY CODES AND WHEN AMBIENT TEMPERATURES ARE LESS THAN 32 DEGREES FAHRENHEIT FOR 30 MINUTES.
- DOMESTIC WATER PIPING SYSTEM
UPON COMPLETION OF THE ROUGH-IN AND BEFORE INSULATION OR SETTING OF FIXTURES, DOMESTIC HOT AND COLD WATER PIPING SYSTEMS SHALL BE TESTED AT A HYDROSTATIC PRESSURE OF 1-1/2 TIMES THE ACTUAL WATER PRESSURE BUT NOT LESS THAN 100 PSIG AND PROVEN TIGHT AT THIS PRESSURE FOR NOT LESS THAN 3 HOURS.
- CLEANING OF PIPING SYSTEMS
FOLLOWING THE COMPLETION OF SYSTEM TESTS, ALL PIPING SYSTEMS SHALL BE THOROUGHLY CLEANED BY THE CONTRACTOR BY FLUSHING WITH WATER OR AS OTHERWISE SPECIFIED. ALL DIRT, SCALE, OIL, GREASE AND FOREIGN SUBSTANCES WHICH MAY HAVE ACCUMULATED IN THE SYSTEMS DURING INSTALLATION SHALL BE COMPLETELY REMOVED.
- STERILIZATION OF POTABLE WATER SYSTEMS
A. BEFORE BEING PLACED IN SERVICE, THE COMPLETE DOMESTIC HOT AND COLD WATER PIPING WITHIN THE BUILDING SHALL BE STERILIZED IN ACCORDANCE WITH THE LATEST ISSUE OF AWWA SPECIFICATION C-651 AND PER NATIONAL STANDARD PLUMBING CODE SECTION 10.9. THE PIPING SHALL BE FILLED WITH A WATER-CHLORINE SOLUTION CONTAINING AT LEAST 50 PARTS PER MILLION OF CHLORINE AND SHALL BE VALVED OFF FOR 24 HOURS OR FILLED WITH A WATER-CHLORINE SOLUTION CONTAINING AT LEAST 500 PARTS PER MILLION OF CHLORINE AND ALLOWED TO STAND FOR AT LEAST 3 HOURS. FOLLOWING THE ALLOWED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH POTABLE WATER UNTIL NO CHLORINE REMAINS IN THE SYSTEM.
B. PRIOR TO STERILIZATION, SYSTEMS SHALL BE LEAK TESTED AND ALL DIRT AND FOREIGN MATTER SHALL BE REMOVED BY A THOROUGH FLUSHING WITH WATER.
- ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO PERFORM STARTUP SERVICES. COMPLETE INSTALLATION AND STARTUP CHECKS SHALL BE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND STARTUP REPORTS SHALL BE PROVIDED TO ARCHITECT/ENGINEER FOLLOWING COMPLETION. STARTUP SHALL BE PROVIDED FOR ALL EQUIPMENT SUPPLIED OR INSTALLED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
A. WATER HEATERS
B. PUMPS
C. COMPRESSORS
D. CONTROLS

PLUMBING COVERSHEET

Bowman
487 OAKSHADE RD., SHAWANO, WI 54988
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BURLINGTON COUNTY AGRICULTURAL CENTER
2026 IMPROVEMENTS
500 CENTERTON ROAD, MOORESTOWN, NJ
BLOCK 8801, LOT 2.3 & 3Q FARM
MOORESTOWN TWP, BURLINGTON COUNTY, NEW JERSEY

No.	Date	Revision

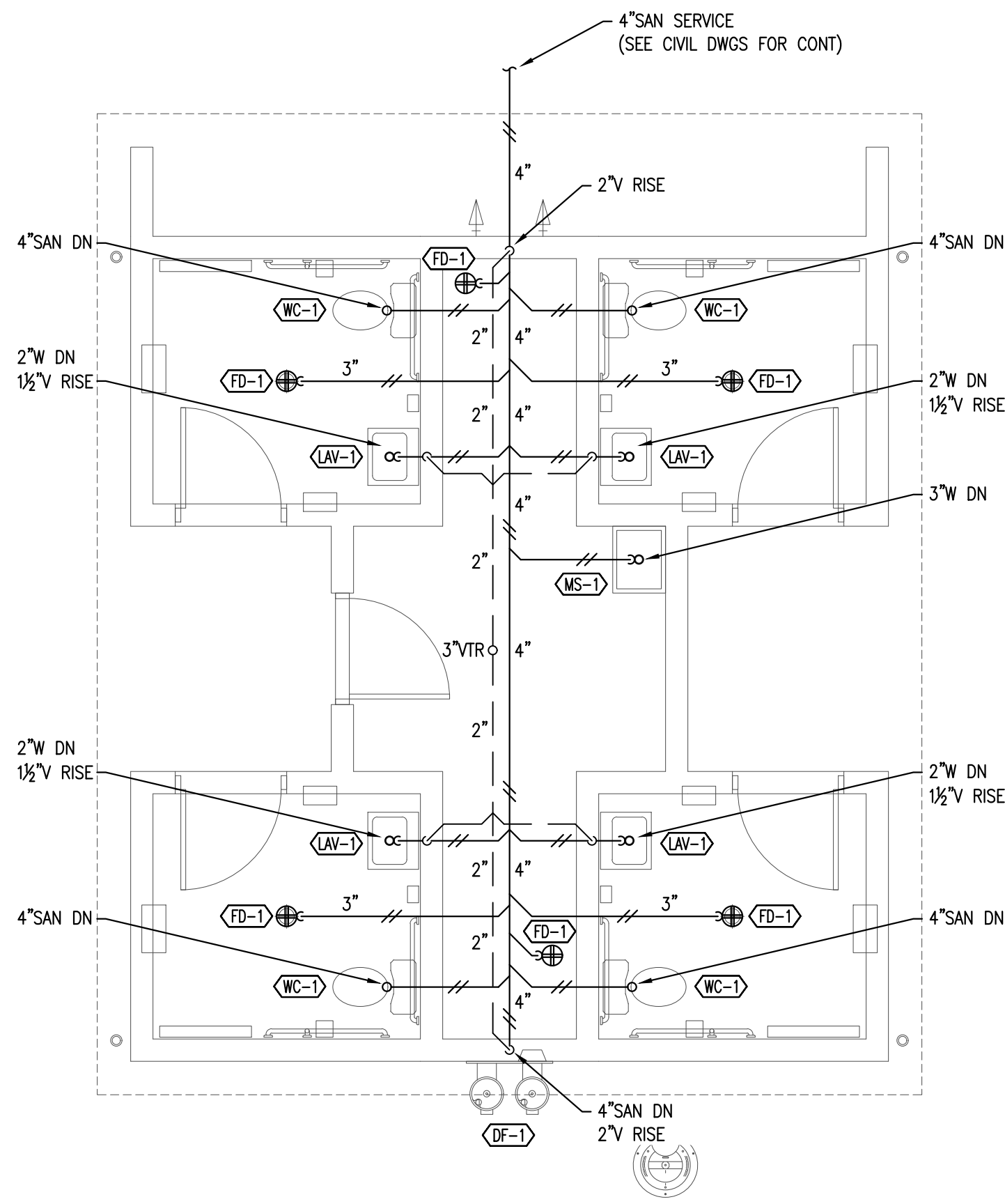
taylor design group
131 Hartford Road
Mount Laurel, NJ 08054
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www.tdglplanning.com
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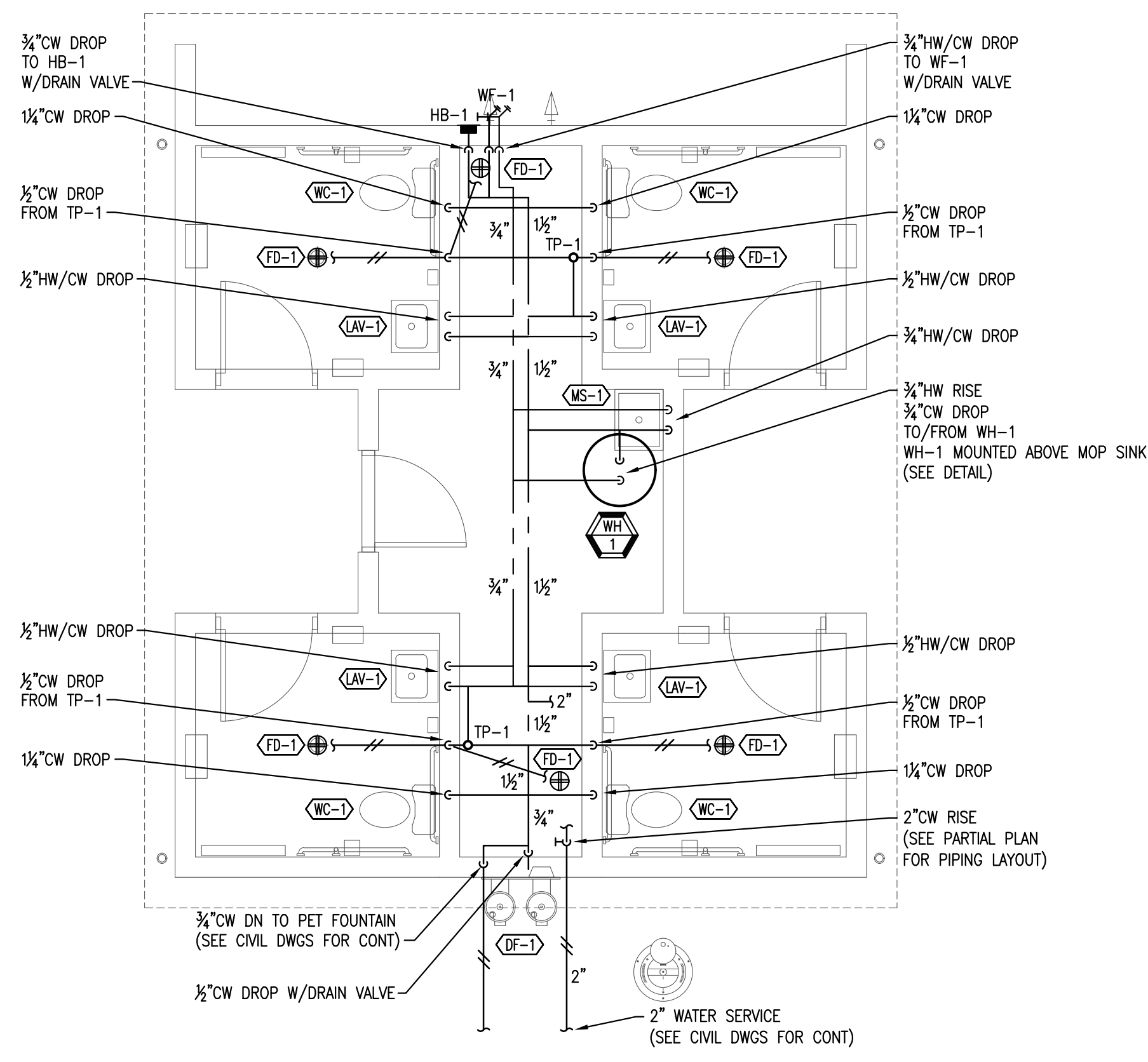
GENERAL FIRESTOPPING NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OR EXCEEDING WALL/CEILING/FLOOR ASSEMBLY RATINGS FOR ALL PENETRATIONS. CONTRACTOR SHALL VERIFY LOCATION AND RATING OF ALL FIRE ASSEMBLIES AND PROVIDE INTUMESCENT COLLARS AT ALL PENETRATIONS AND FIRE RATED CAULKING AS REQUIRED.

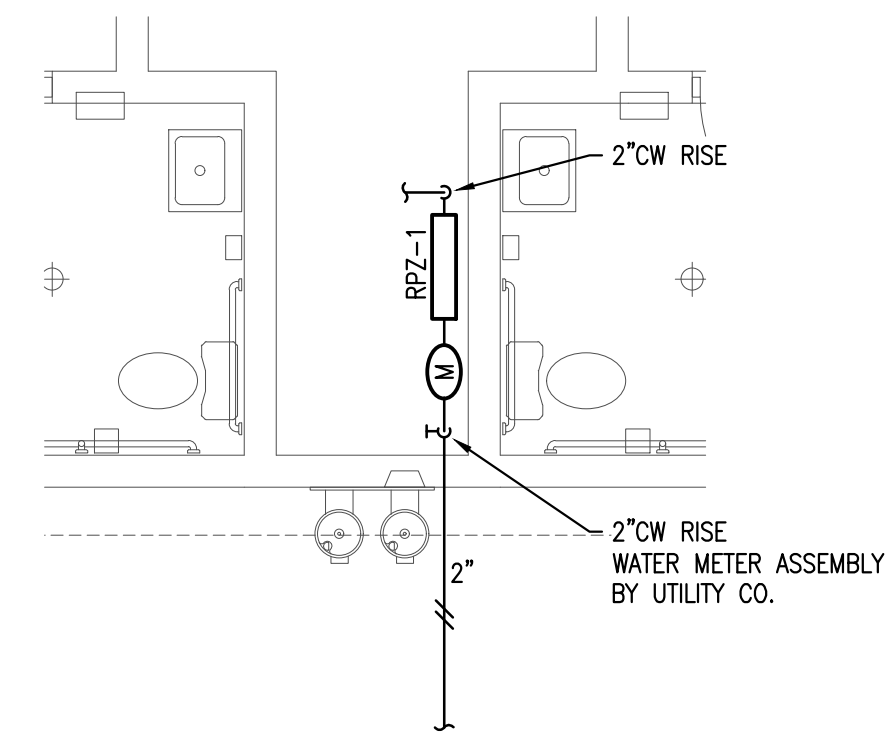
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01 PLUMBING FLOOR PLAN — SANITARY
SCALE: 1/4" = 1'-0"



02 PLUMBING FLOOR PLAN — SERVICES
SCALE: 1/4" = 1'-0"



03 PLUMBING PARTIAL FLOOR PLAN — SERVICES
SCALE: 1/4" = 1'-0"

- DRAWING NOTES:**
1. DRAWINGS ARE DIAGRAMMATIC. PROVIDE ADDITIONAL OFFSETS, TRANSITIONS, ETC. AS REQUIRED TO AVOID INTERFERENCES ENCOUNTERED.
 2. CONTRACTOR SHALL PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES AND ACCESS TO ALL EQUIPMENT. COORDINATE LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS.
 3. SEE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL PLUMBING FIXTURE CONNECTION SIZES.
 4. SEE RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

PLUMBING FLOOR PLANS

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DATE: 06/30/26 JOB NO: 25134

PLUMBING FIXTURE SCHEDULE

FIXTURE #	FIXTURE	MANUFACTURER AND EQUIPMENT	MODEL NUMBER	SERVICE CONNECTIONS				REMARKS
				CW	HW	SAN	VENT	
WC-1	WATER CLOSET-HANDICAPPED FLUSH VALVE FLOOR MOUNTED	AMERICAN STANDARD MADERA ADA ELONGATED SLOAN MANUAL FLUSHMETER BEMIS OPEN FRONT SEAT LESS COVER	3043.001 ROYAL 111-1.6 1955SCT	1"	-	4"	2"	
LAV-1	LAVATORY WALL HUNG	AMERICAN STANDARD LUCERNE SLOAN OPTIMA SENSOR FAUCET SINGLE HOLE TRUEBRO ADA KIT	Q356.421 ETF-610-4-PLG-BDM-CP-0.5GPM-MLM-BAA-FCT 102 E-2	1/2"	1/2"	1-1/2"	1-1/2"	WITH BELOW DECK MANUAL MIXING VALVE PROVIDE GRID DRAIN, TRAP, SUPPLIES, VALVE STOPS & RISERS PROVIDE ADA INSULATION KIT AND FIXTURE CARRIER AS REQUIRED
MS-1	MOP SINK	FIAT 24"x24"x10" MOLDED STONE FIAT BUMPERGUARD, HOSE & HOSE BRACKET CHINGO FAUCET	MSB 2424 E-88-AA, 832-AA 540-LD89TSGWCCP	3/4"	3/4"	3"	1-1/2"	PROVIDE STAINLESS STEEL BUMPER GUARD, HOSE AND HOSE BRACKET, MOP HANGER AND WALL GUARD
DF-1	DRINKING FOUNTAIN/ BOTTLE FILLER	MOST DEPENDABLE FOUNTAINS	10485 WMSS	1/2"	-	1-1/2"	1-1/2"	PROVIDE TRAP, SUPPLIES, VALVE STOPS & RISERS
PF-1	PET DRINKING FOUNTAIN	MOST DEPENDABLE FOUNTAINS	320 SM/SMSS SPLASH SOLUTION	1/2"	-	1-1/2"	1-1/2"	PROVIDE TRAP, SUPPLIES, VALVE STOPS & RISERS COORDINATE EXACT MODEL NUMBER WITH OWNER/ARCHITECT PRIOR TO PURCHASE

- NOTES:
- ALL EXPOSED WATER AND/OR SANITARY PIPING UNDER SINKS OR LAVATORIES SHALL BE INSULATED WITH "LAV GUARD" INSULATION KIT.
 - PVC CELLULAR CORE (FOAM CORE) PIPE SYSTEMS IS NOT AN APPROVED MATERIAL AND SHALL NOT BE ACCEPTED FOR INSTALLATION UNDER ANY CIRCUMSTANCE.
 - ALL FIXTURE SHUT-OFFS AND STOP VALVES SHALL HAVE BRASS STEMS, PROVIDE ANGLE SUPPLY STOP WITH FLANGE (ESCUTCHEON PLATE) AND FLEXIBLE HOSE.
 - PROVIDE THERMOSTATIC MIXING VALVES (MV-1) BELOW EACH SINK AND/OR LAVATORY, (THAT IS NOT LOCATED WITHIN A DWELLING UNIT).
 - SEE ARCHITECTURAL DRAWING SETS FOR ADDITIONAL FIXTURE AND ACCESSORY REQUIREMENTS. CONTRACTOR SHALL COORDINATE AND PROVIDE FOR ALL FIXTURE AND EQUIPMENT.
 - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
 - ALL QUICK OPENING VALVES INCLUDING FLUSH VALVES SHALL HAVE SHOCK ARRESTORS WITH ACCESS PANELS.

PIPE SCHEDULE

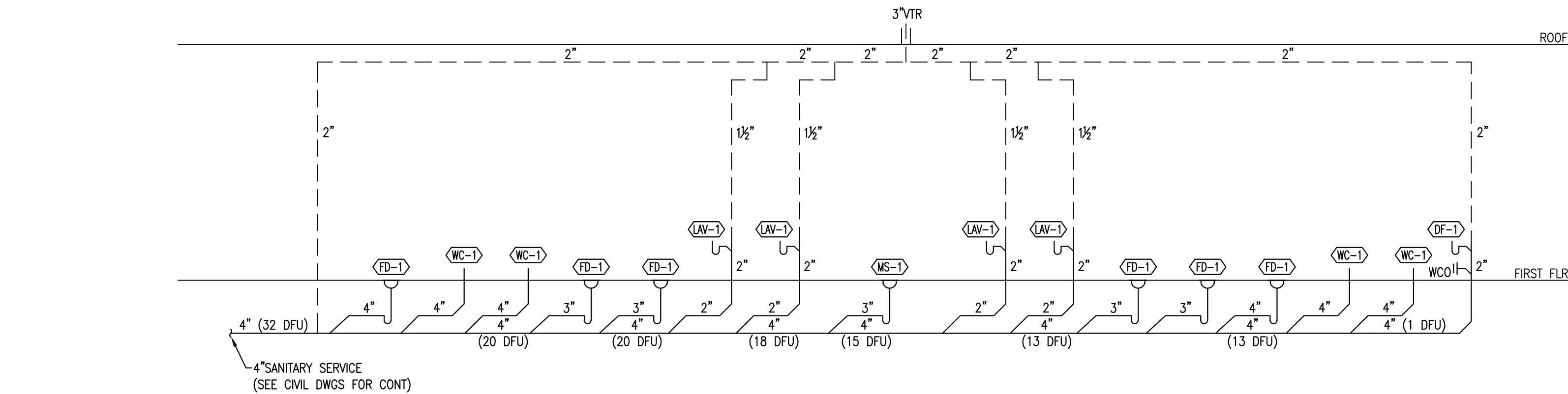
TAG	TYPE	MATERIAL/FITTINGS	SIZES	INSULATION	NOTES
CW	DOMESTIC COLD WATER	TYPE L COPPER HARD DRAINW / WROUGHT COPPER FITTINGS	1-1/4" OR SMALLER	1" FIBERGLASS	
CW	DOMESTIC COLD WATER	TYPE L COPPER HARD DRAINW / WROUGHT COPPER FITTINGS	1-1/2" OR LARGER	1" FIBERGLASS	
HW	DOMESTIC HOT WATER	TYPE L COPPER HARD DRAINW / WROUGHT COPPER FITTINGS	1-1/4" OR SMALLER	1" FIBERGLASS	
HW	DOMESTIC HOT WATER	TYPE L COPPER HARD DRAINW / WROUGHT COPPER FITTINGS	1-1/2" OR LARGER	1.5" FIBERGLASS	
SAN	SANITARY ABOVE GRADE	SCHEDULE 40 PVC/PVC SOCKET	ALL	-	
SAN	SANITARY BELOW GRADE	SCHEDULE 40 PVC/PVC SOCKET	ALL	-	
VENT	VENT ABOVE GRADE	SCHEDULE 40 PVC/PVC SOCKET	ALL	-	

- NOTES:
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 - FOAM CORE PVC IS NOT AN APPROVED MATERIAL TO BCG STANDARDS

WATER HEATER SCHEDULE

TAG NO.	ITEM	MANUFACTURER	MODEL	STORAGE (GALLONS)	GAS (MBH)	ELECTRICAL				THERMAL EFFICIENCY	RECOVERY (GPH)	TEMP RISE (DEG. F)	REMARKS
						V	PH	HZ	KW				
	ELECTRIC WATER HEATER	BRADFORD WHITE	LE230LN3-3	30		208	1	60	4.5	96%	21	90°	MOUNT ON PLATFORM ABOVE MOP SINK IN JANITORS CLOSET, COORDINATE LOCATION IN FIELD. PROVIDE AMTROL ST-5 IN LINE 2 GALLON EXPANSION TANK

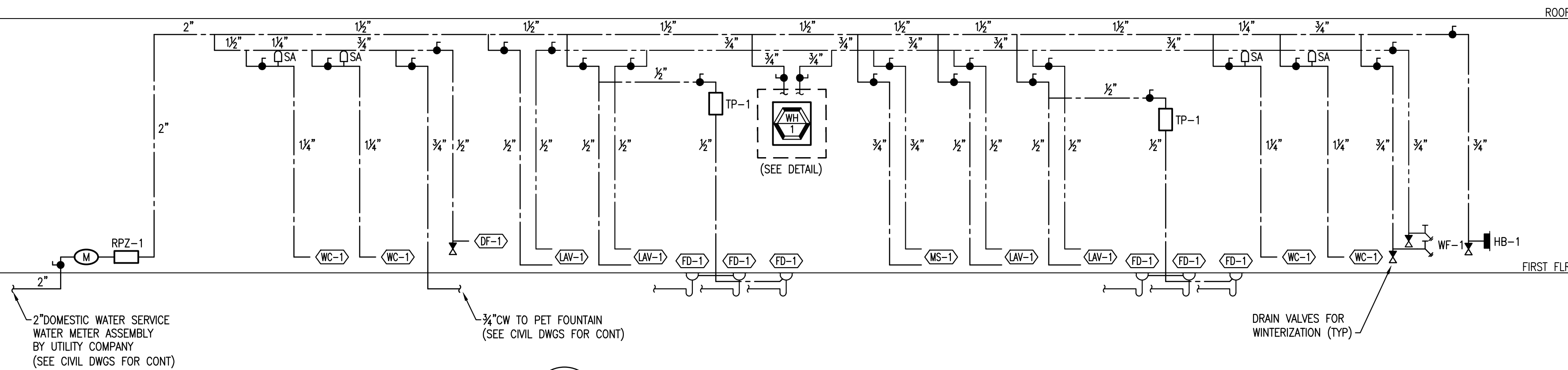
- NOTES:
- WATER HEATER TEMPERATURE SHALL BE SET TO 140°F., PROVIDE TMV-1 MASTER THERMOSTATIC MIXING VALVE SET TO 120°F. (SEE DETAIL)



01 SANITARY RISER DIAGRAM

SCALE: NONE

- NOTE:
- ALL PIPING SHALL PITCH 1/8" / FT. UNLESS OTHERWISE NOTED.



02 DOMESTIC WATER RISER DIAGRAM

SCALE: NONE

MISCELLANEOUS PLUMBING SCHEDULE

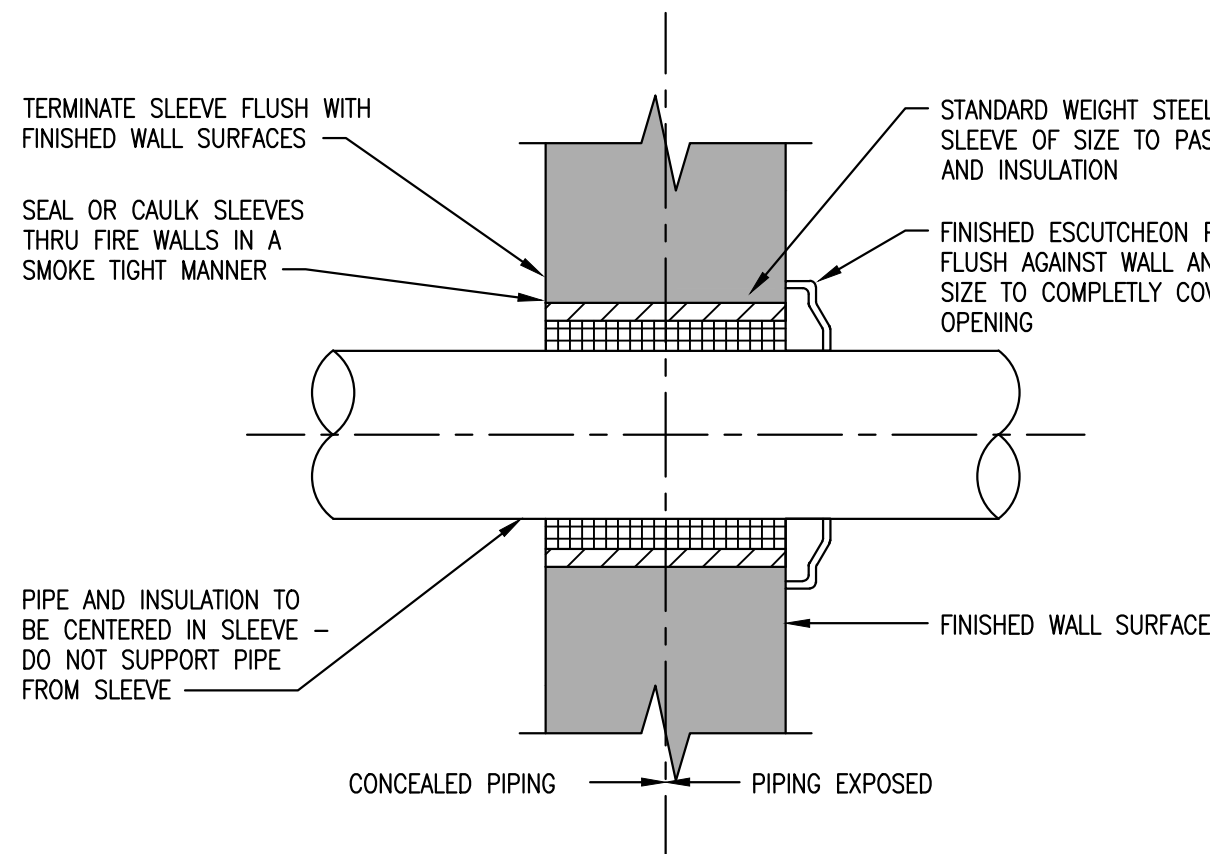
TAG	TYPE	MANUFACTURER	MODEL #	SIZE	ACCESSORIES
RPZ-1	REDUCED PRESSURE ZONE ASSEMBLY	WATTS	LF909M1QT-S	2"	
MV-1	MIXING VALVE	WATTS	LFLM495	1/2", 3/4"	3,4,6,9
SA-1	SHOCK ARRESTOR	PRECISION PLUMBING PRODUCTS	STANDARD SERIES	SEE PLANS	1,2,3,6
TMV-1	THERMOSTATIC MIXING VALVE	WATTS	LFLM496-HTK	3/4"	4,6,13
TP-1	TRAP PRIMER	PRECISION PLUMBING PRODUCTS	PR-500	1/2"	12,13
HB-1	FREEZE PROTECTED WALL HYDRANT	JAY R. SMITH	5509QT	3/4"	10,11
WF-1	FREEZELESS HOT & COLD WALL FAUCET	WOODFORD	C22	3/4"	10,11

- NOTES/ACCESSORIES:
- P.O.I. AND/OR A.S.S.E. APPROVED
 - EXPANSION BELLOWS TYPE (3) IN-LINE TYPE (4) BRONZE BODY
 - SWEAT CONNECTION (6) THREADED CONNECTIONS (7) BUILT IN BY-PASS (8) REPLACEABLE THERMOSTAT
 - CW SHUT-OFF FOR EXCESSIVE HW DEMAND (10) WITH INTEGRAL VACUUM BREAKER (11) FROST PROOF
 - PROVIDE DU-U DISTRIBUTION UNIT AS REQUIRED (13) INSTALL PER MANUFACTURERS RECOMMENDATIONS

BACKFLOW PREVENTION DEVICE SCHEDULE

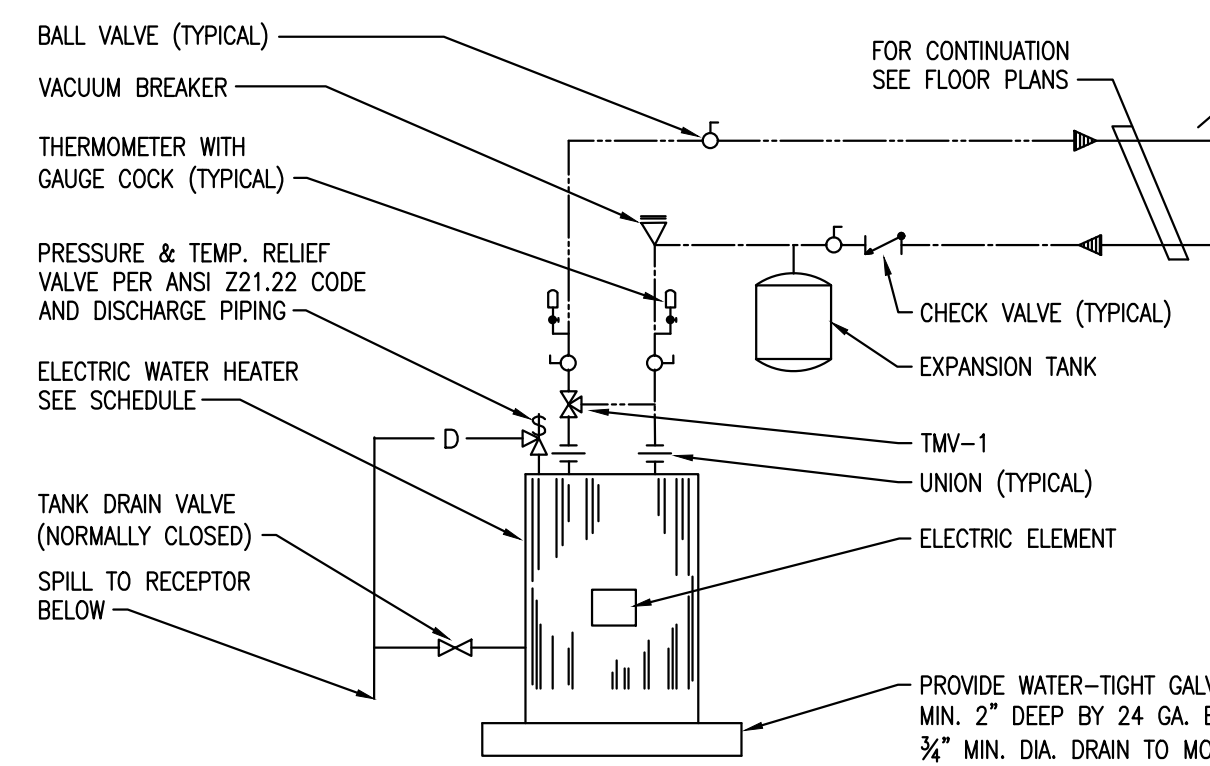
FIXTURE	BACKFLOW PREVENTION DEVICE
WATER CLOSET	FLUSH VALVE FURNISHED WITH AN INTEGRAL VACUUM BREAKER
HAND WASHING SINKS / LAVATORIES	AIR GAP
SERVICE / MOP SINKS	FAUCET FURNISHED WITH AN INTEGRAL VACUUM BREAKER OR WATTS SERIES 7 DUAL CHECK VALVE
DRINKING FOUNTAIN / ELECTRIC WATER COOLER	AIR GAP
TRAP PRIMER	FURNISHED WITH INTEGRAL BACKFLOW PREVENTER AND VACUUM BREAKER PORT.
WALL HYDRANTS, HOSE BIBB, WASH DOWN FAUCET	FURNISHED WITH AN INTEGRAL VACUUM BREAKER

- NOTES:
- CONTRACTOR SHALL PROVIDE BACKFLOW PREVENTION DEVICES AT THE EQUIPMENT LISTED ABOVE.
 - DEVICES LISTED ARE MANUFACTURED BY WATTS REGULATOR COMPANY. CONTRACTOR MAY SUBMIT
AN EQUAL FROM ANOTHER MANUFACTURER FOR REVIEW.
 - CONTRACTOR SHALL VERIFY REQUIREMENTS WITH LOCAL AUTHORITIES HAVING JURISDICTION.



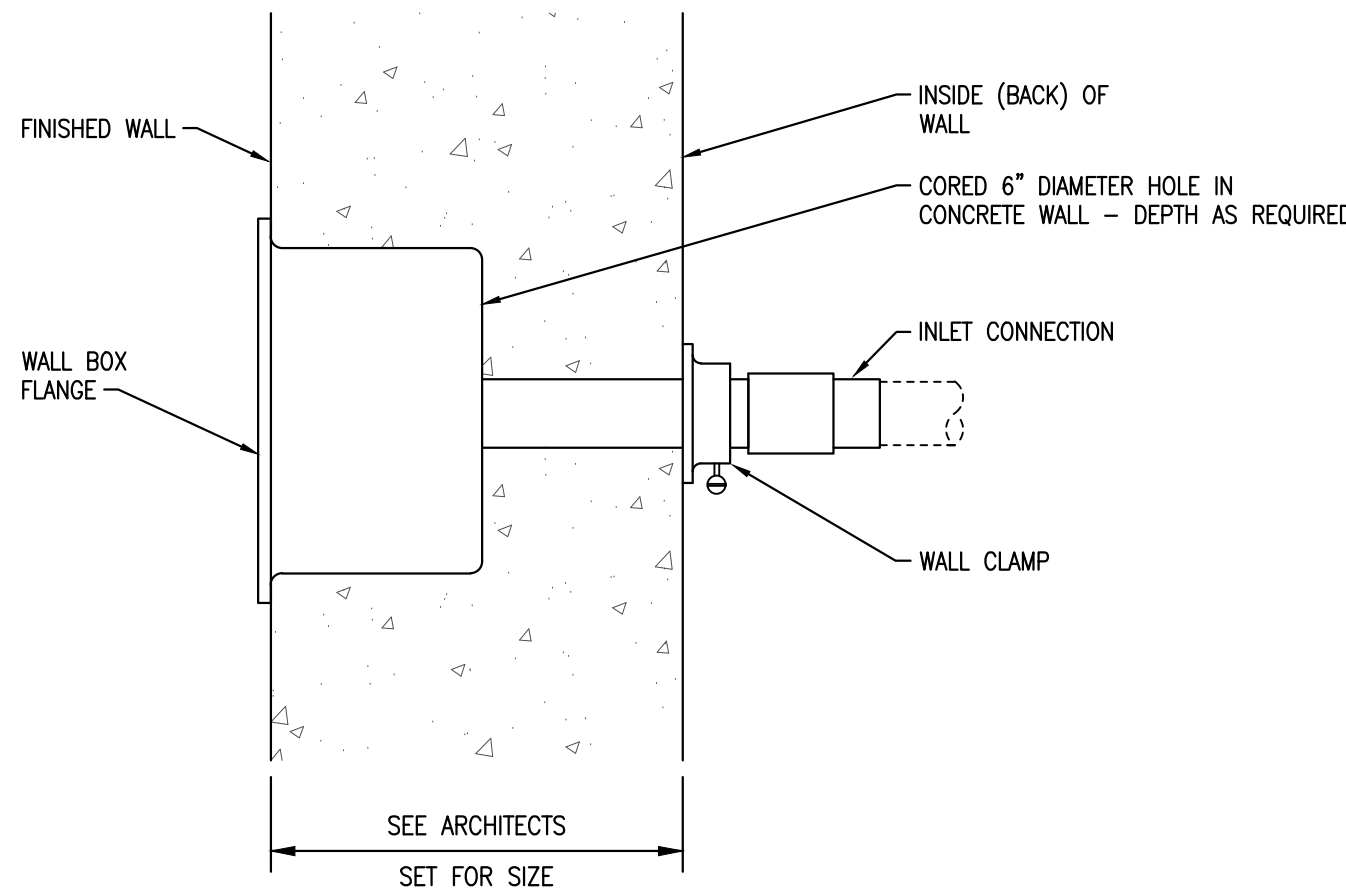
05 PIPE SLEEVE THRU WALL DETAIL

SCALE: N.T.S



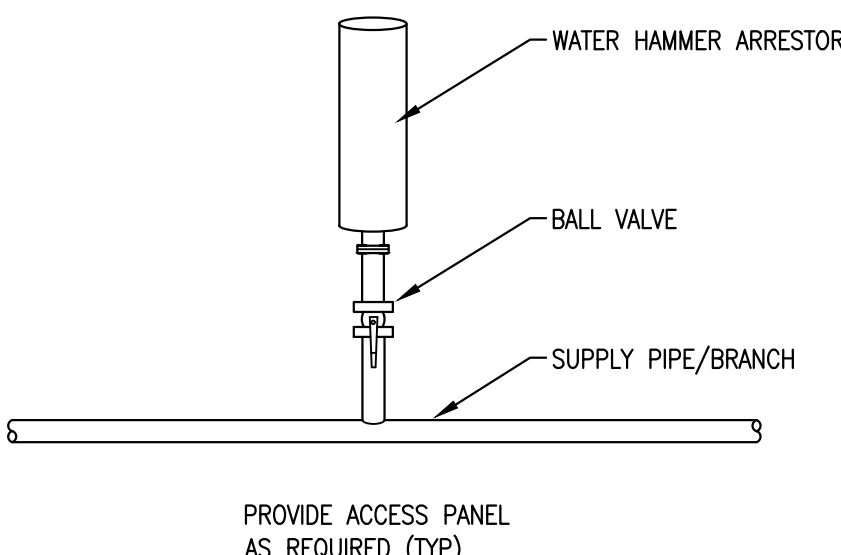
07 WALL HUNG ELECTRIC WATER HEATER WITH THERMOSTATIC MIXING VALVE DETAIL

SCALE: N.T.S



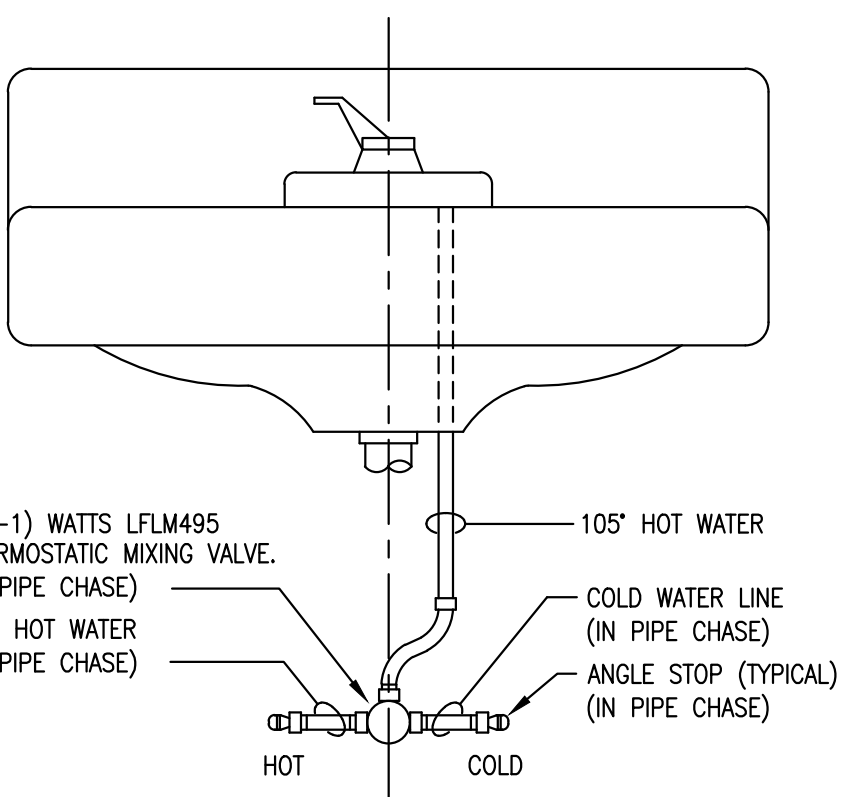
03 FREEZE PROOF WALL HYDRANT DETAIL

SCALE: N.T.S



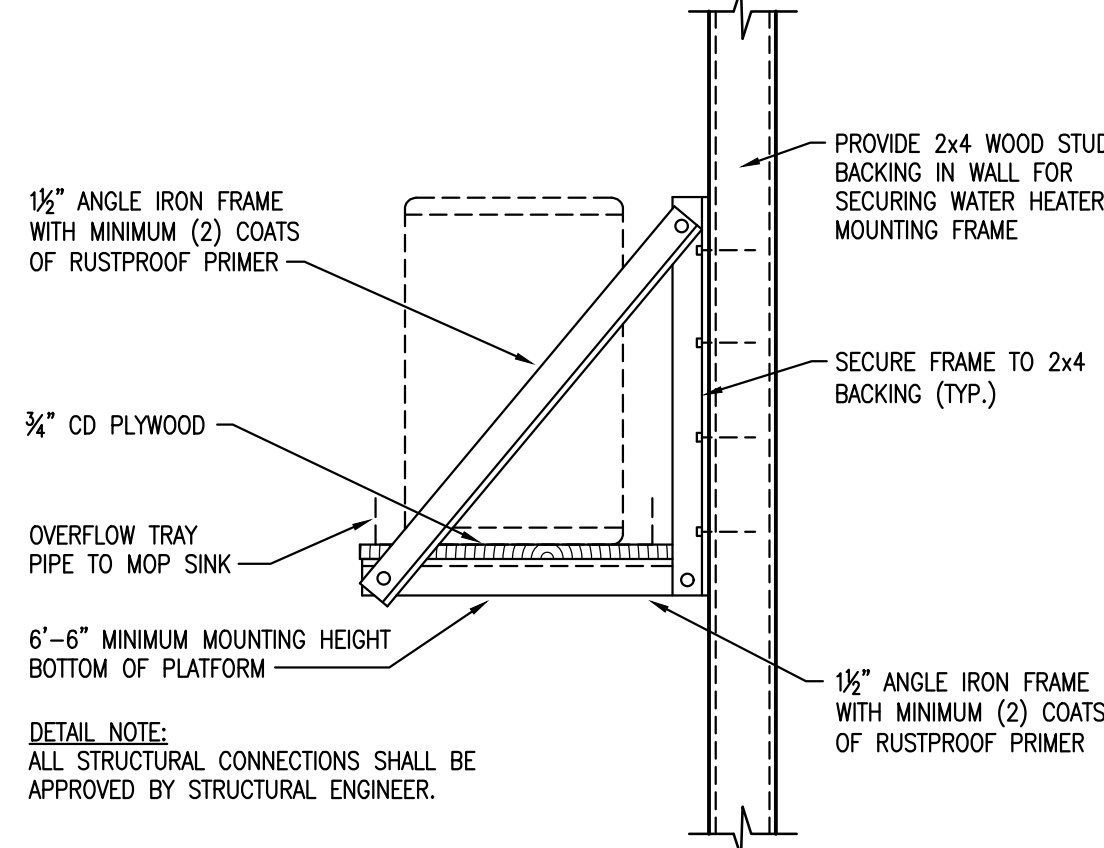
04 WATER HAMMER ARRESTOR DETAIL

SCALE: N.T.S



06 MIXING VALVE BELOW SINK DETAIL

SCALE: N.T.S



PLUMB SCHED & RISER DIAGRAMS

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BURLINGTON COUNTY AGRICULTURAL CENTER
2026 IMPROVEMENTS
500 CENTERTON ROAD, MOORESTOWN, NJ
BLOCK 8801, LOT 2.3 & 3Q FARM
MOORESTOWN TWP, BURLINGTON COUNTY, NEW JERSEY

No.	Date	Revision

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