

CAMAS CITY HALL GENERATOR

FOR

CITY OF CAMAS

CAMAS, WASHINGTON

PREPARED FOR:
CITY OF CAMAS
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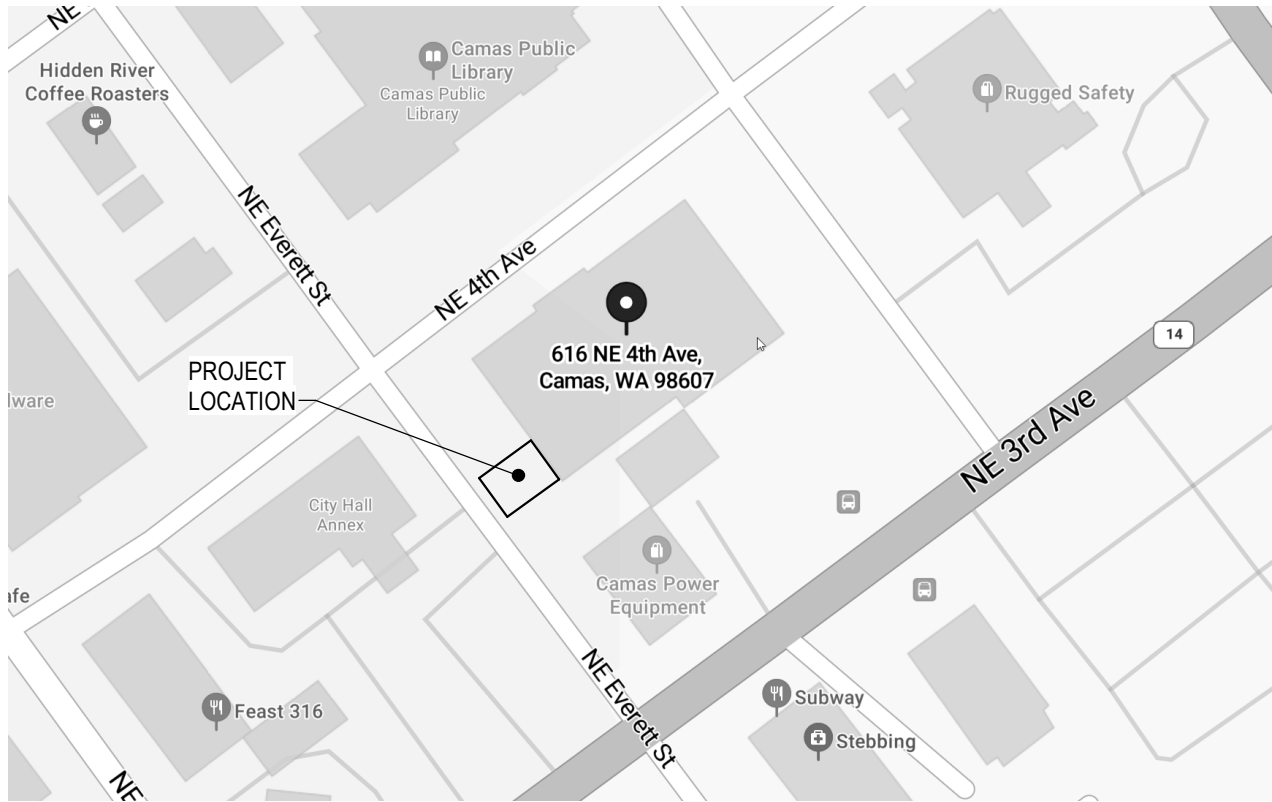
PROJECT DESCRIPTION

THIS SCOPE OF WORK INCLUDES THE REMOVAL OF THE EXISTING STANDBY POWER GENERATOR LOCATED IN THE BASEMENT GARAGE OF CITY HALL AND THE INSTALLATION OF A NEW DIESEL GENERATOR OUTSIDE THE BUILDING. THE NEW GENERATOR SYSTEM WILL BE CONNECTED TO CITY HALL'S EXISTING ELECTRICAL INFRASTRUCTURE UNTIL FUTURE ELECTRICAL IMPROVEMENTS CAN BE IMPLEMENTED. THIS PROJECT IS PART OF A LARGER INITIATIVE TO ENHANCE CITY HALL'S MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS IN THE FUTURE. COORDINATION AMONG MULTIPLE TRADES WILL BE REQUIRED TO ENSURE THE SUCCESSFUL COMPLETION OF THIS WORK. THE SCOPE INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING TASKS:

- INSTALLATION OF AN OWNER-PROVIDED DIESEL GENERATOR AND AUTOMATIC TRANSFER SWITCH (ATS). THE GENERATOR IS CURRENTLY STORED AT PACIFIC POWER IN RIDGEFIELD, WA.
- CONSTRUCTION OF A GENERATOR PAD, WHICH WILL INVOLVE BUILDING RETAINING WALLS, FOOTINGS, SLABS, AND EQUIPMENT PADS. ADDITIONALLY, THIS WILL INCLUDE A GENERATOR ENCLOSURE WITH ARCHITECTURAL FENCING AND GATES, AS WELL AS THE REMOVAL AND REPLACEMENT OF EXISTING SIDEWALKS AND CURBS.
- INSTALLATION OF UNDERGROUND PIPING, WHICH WILL INCLUDE STORMWATER ROOF DOWNSPOUTS, CATCH BASINS, VAULTS, AND ELECTRICAL CONDUITS AND VAULTS.



VICINITY MAP



SITE MAP



CAMAS CITY HALL GENERATOR
616 NE 4TH AVE,
CAMAS, WA 98607

Revisions:

100%
CONSTRUCTION
DOCUMENTS

Project No:
23196

PROJECT MANAGER: _____
DRAWN BY: _____
CHECKED BY: _____

Issue Date:
10/22/2025

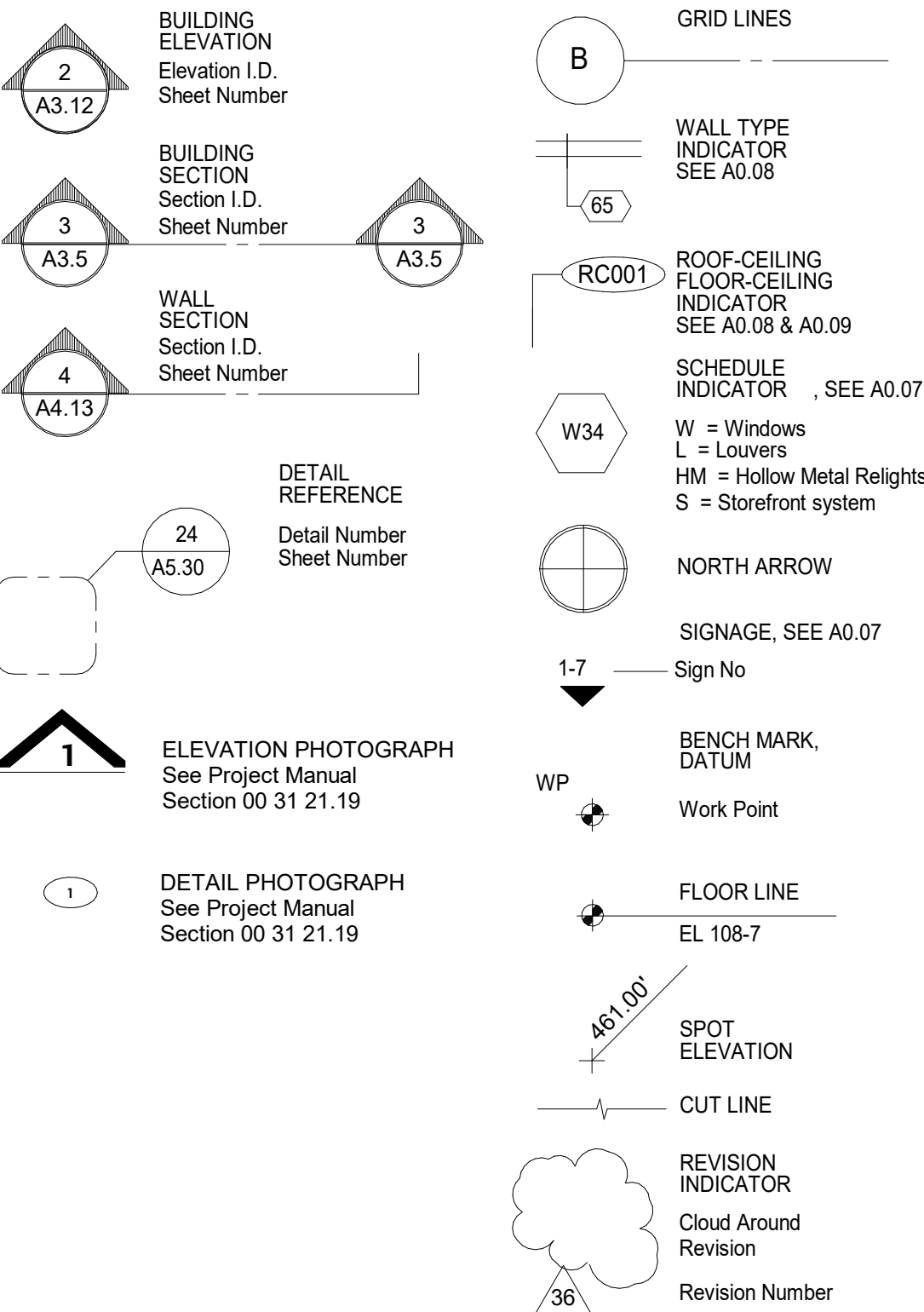
GENERAL
COVER SHEET

G001

CAMAS CITY HALL GENERATOR

CAMAS CITY HALL CAMAS, WASHINGTON

GRAPHIC SYMBOLS



GENERAL NOTES

- VERIFY AND COORDINATE SITE CONDITIONS AND DIMENSIONS. BRING INCONSISTENCIES TO ATTENTION OF ARCHITECT BEFORE PROCEEDING WITH WORK.
- IMMEDIATELY BRING ERRORS AND OMISSIONS FOUND IN THESE DRAWINGS TO ATTENTION OF ARCHITECT. WHERE CONTRACTOR IS AWARE OF CONFLICTS OR OMISSIONS AND HAS NOT BROUGHT THEM TO ARCHITECT'S ATTENTION, IT IS UNDERSTOOD THAT CONTRACTOR HAS MADE PROVISIONS FOR MORE COSTLY AND STRINGENT METHOD. WHERE CONFLICTS, ERRORS OR OMISSIONS OCCUR IN DRAWINGS, PROJECT MANUAL, OR OTHER RELATED CONTRACT DOCUMENT PROVISIONS SUCH AS MANUFACTURER'S INSTRUCTIONS, REFERENCE STANDARDS, AND REGULATORY AGENCIES AND CODES, ASSUME MORE STRINGENT REQUIREMENTS AND VERIFY WITH ARCHITECT BEFORE BEGINNING WORK.
- DO NOT SCALE DRAWINGS. FOLLOW DIMENSIONS SHOWN ON DRAWINGS AND ACTUAL FIELD MEASUREMENTS. NOTIFY ARCHITECT OF DISCREPANCIES.
- WORK INSTALLED IN CONFLICT WITH CONSTRUCTION DOCUMENTS IS NON-CONFORMING WORK AND REQUIRES CORRECTION AT NO ADDITIONAL COST TO OWNER AS DIRECTED BY ARCHITECT.

DEFERRED SUBMITTALS

NO SUBMITTALS

PROJECT GOVERNING CODES

BUILDING CODE	2021 INTERNATIONAL BUILDING CODE WITH WA STATE AMENDMENTS (WAC51-50) 2021 INTERNATIONAL EXISTING BUILDING CODE WITH WA STATE AMENDMENTS (WAC51-50) ICC/ANSI A117.1-2009 ACCESSIBILITY W/ WAC 51-50 1101.2 VANCOUVER MUNICIPAL CODE TITLE 17
PLUMBING CODE	2021 UNIFORM PLUMBING CODE AND STANDARDS WITH WA STATE AMENDMENTS (WAC51-56 AND WAC 51-57)
MECHANICAL CODE	2021 INTERNATIONAL MECHANICAL CODE WITH WA STATE AMENDMENTS (WAC 51-52)
ELECTRICAL CODE	2021 NATIONAL ELECTRICAL CODE (NFPA70) WITH WA STATE AMENDMENTS
FIRE CODE	2021 INTERNATIONAL FIRE CODE WITH WA STATE AMENDMENTS (51-54)
ENERGY	2021 WA STATE ENERGY CODE (WAC51-11)
MUNICIPAL	CAMAS MUNICIPAL CODE

ABBREVIATIONS

THESE ABBREVIATIONS ARE FOR STANDARD REFERENCE ONLY. NOT ALL SYSTEMS AND ASSEMBLIES LISTED OCCUR IN THESE DOCUMENTS

A AB AC ACP ACT AD ADJ AFF AHJ AHU AL/LALUM ALT AO AP ARCH AVE AWP	B BF BLDG BLKG BM BOT/BTM BTWN BUR BOW	C CB CBB CD CG CH CHRL CI CIRL CJ CL CLG CLR CMU CO CONC CONT CPT CT CTP CTR CTSK CU CW CWRB	D D DA DBL DEPT DF DIAQ DICA DIM DISP DL DN DR DSP DTP DW DWR	E EA ECP ECR EGS EJ EL ELEC ELEV EOD EOS EP EQ EQUIP EWC EXP EXT EXT	F FA FAAP FACP FAPB FB FD FDC FE FEC FH FHC FHMS FHSMS FHWG FIN FL FLUOR FM FOB FOC FOF FOIC FOIT FOIV FOM FOS FT FURN FURS	G GA GBB GC GFI GL GWB	H H HB HC HCT HCW HDR HDWD HM HCRIZ HR HW HWR HWS	I ID IE IN INSUL INT J JAN JT	K K KD KIP KIT KITCH K L L LAV LB LBR LH LHR LL LP	M MAS MAX MB MDF MECH MEJ MEMB MTL/MET MFCP MFR MNL MIN MISC MO MTD MUTCD	N N NA N/C NO./# NOM NTS	O OC OD OFD OFF OH OPNG OPP OSB OZ	P P PA PC PCD PERF PERP PH PL PLM PLAS PLYWD PNL PNT PREFIN PSI PSL PT PTD PTDW PVC	R R R/S RA RAD RB RCP RD REC REF REINF REQ RES RET REV RFR RGR RM RO ROW RP RRL RSP RWL	S SAR SAN SAM SCD SCHD SCW SD SECT SF SFC SHT SHTG SIM SMS SND SNT SNW SPEC SQ SST STC STD STL STN STOR STRUCT SUBFL SURF SUSP SWC	T TAB TAG TB TBB TBL TEL TEMP TER TO TOC TOD TOF TOIL TOP TOS TOW TP TPD TVS TYP	U UL UNO UTL	V VCT VERT VP	W W W/O W WD WF WH WHS WRB WR WRF WWM	Y YD
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SHEET INDEX

ARCHITECTURAL

A000	COVER PAGE
A010	SITE PLAN & ELEVATIONS
A011	GENERATOR ENCLOSURE SECTIONS & DETAILS

PROJECT NARRATIVE

WINDSOR ENGINEERING ARE THE PRIME CONSULTANT FOR THE CAMAS FACILITIES IMPROVEMENTS PROJECTS. SWERHONE ARCHITECTURE HAS BEEN SELECTED TO WORK IN A SUPPORT SUB-CONSULTANT CAPACITY AS MISCELLANEOUS ARCHITECTURAL ELEMENTS REQUIRE ATTENTION.

- GENERATOR SITE DEVELOPMENT
- CONCRETE COMPONENTS - SLAB / RETAINING WALLS
- FENCING MATERIAL AND GATE.

SUPPLEMENTAL ABBREVIATIONS

SYMBOLS USED AS ABBREVIATIONS

&	And
@	At
±	Centerline
#	Number
d	Penny
/	Property Line/Plate
±	Plus or Minus
○	Round
□	Square/Square Feet

ABBREVIATED STRUCTURAL SHAPES

AS	American Standard Channel
HSS	Hollow Structural Shape
M	M Shapes
MC	Miscellaneous Channel
PL	Plate
W	W Shapes

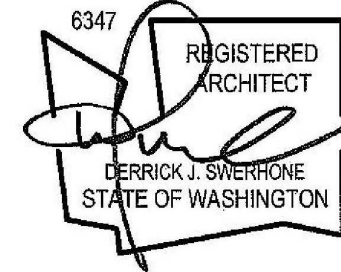
ABBREVIATED TOILET ACCESSORIES

CH	Coat Hook
GB	Grip Bar
PCD	Paper Cup Dispenser
PTD	Paper Towel Dispenser
PTDW	Paper Towel Dispenser & Waste Receptacle
SD	Soap Dish/Soap Dispenser
SND	Sanitary Napkin Dispenser
SNW	Sanitary Napkin Waste Receptacle
TB	Towel Bar
TPD	Toilet Paper Dispenser
TSCD	Toilet Seat Cover Dispenser
WR	Waste Receptacle



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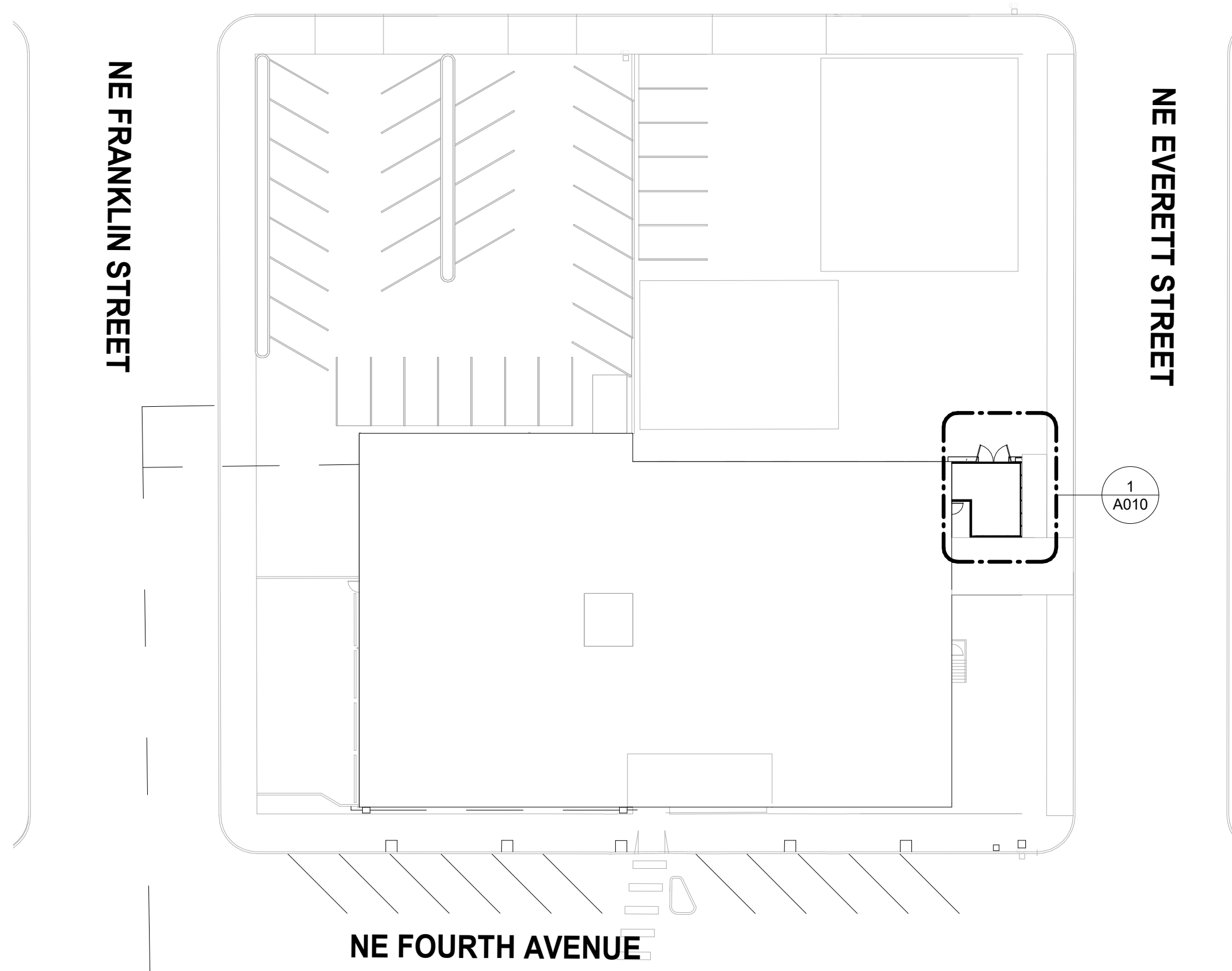
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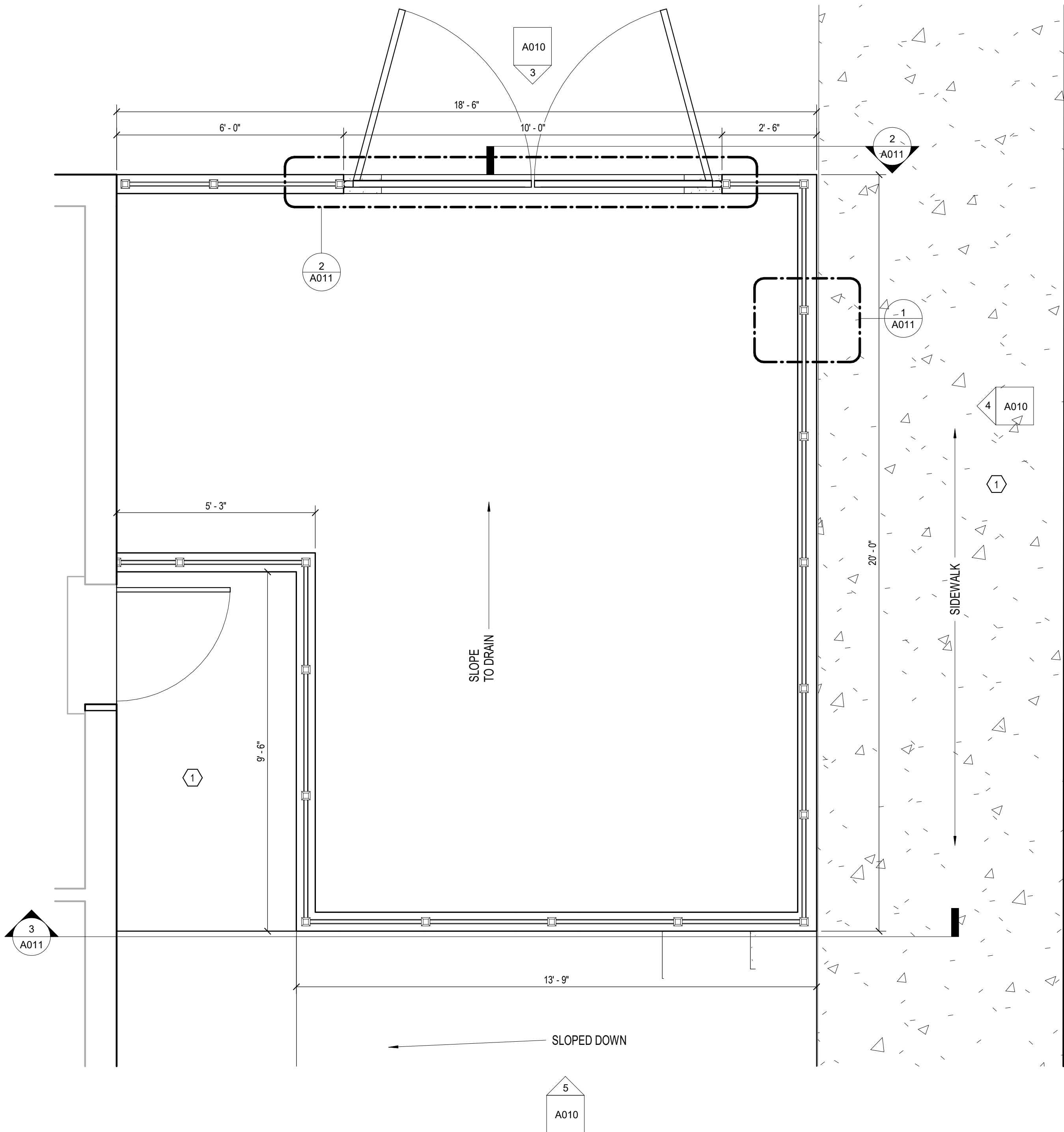
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COVER PAGE

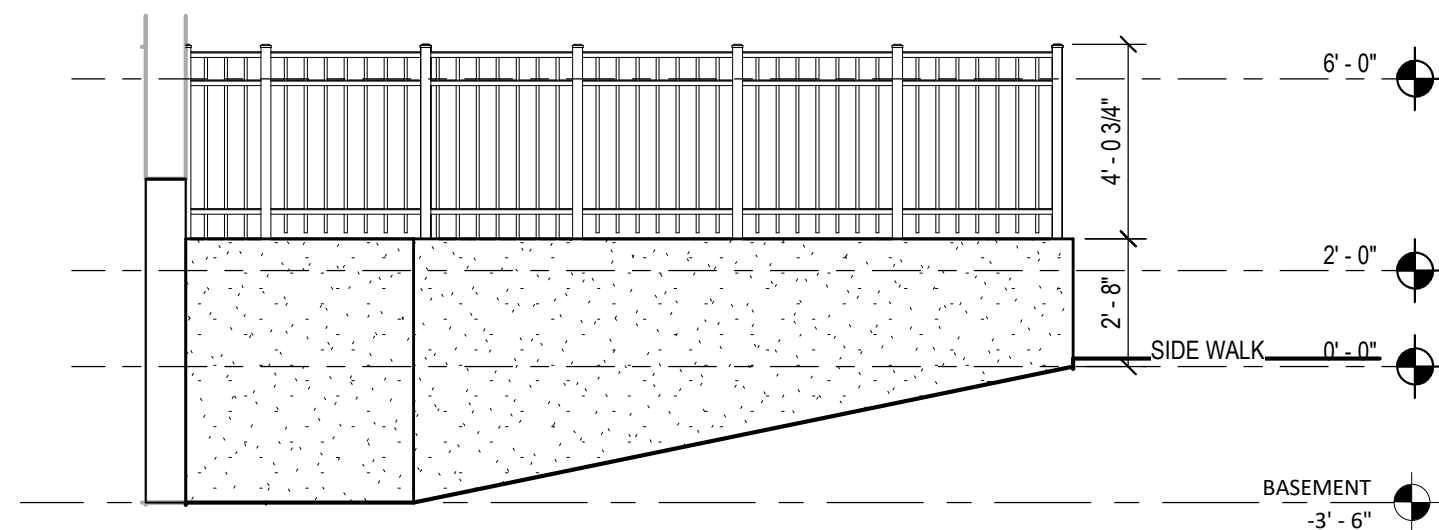
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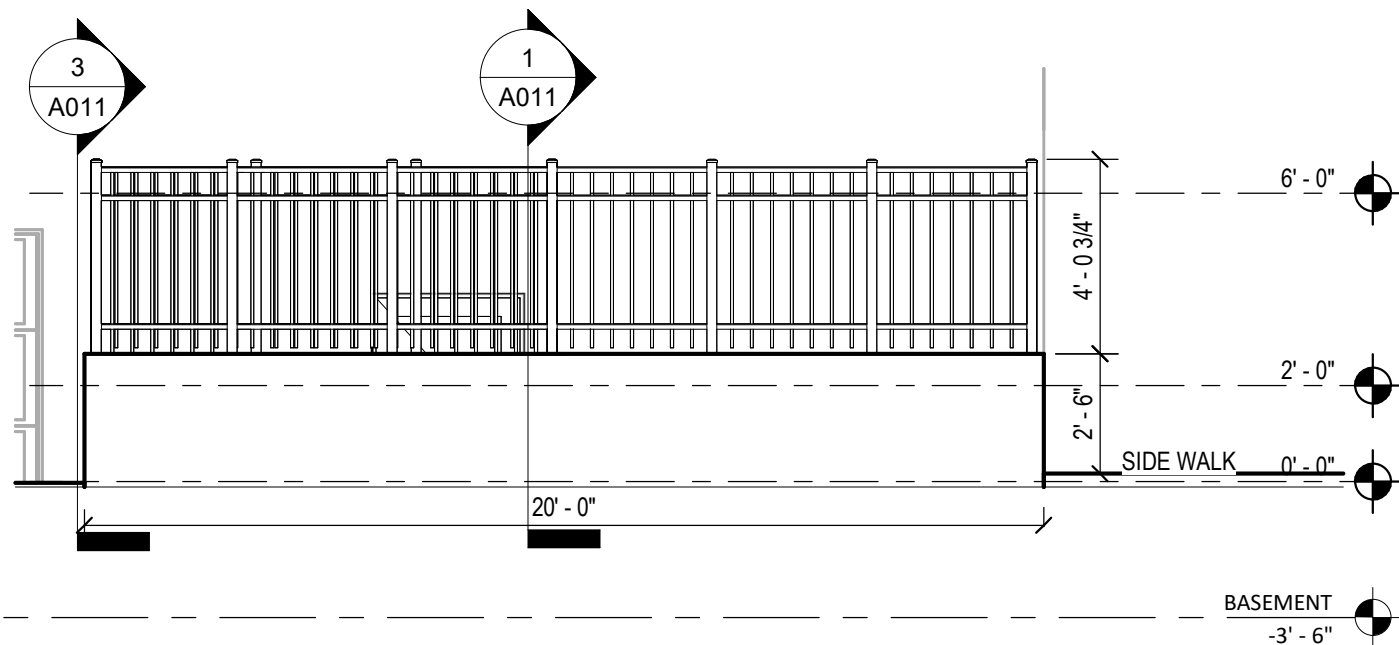
2 SITE PLAN
SCALE: 1" = 30'-0"



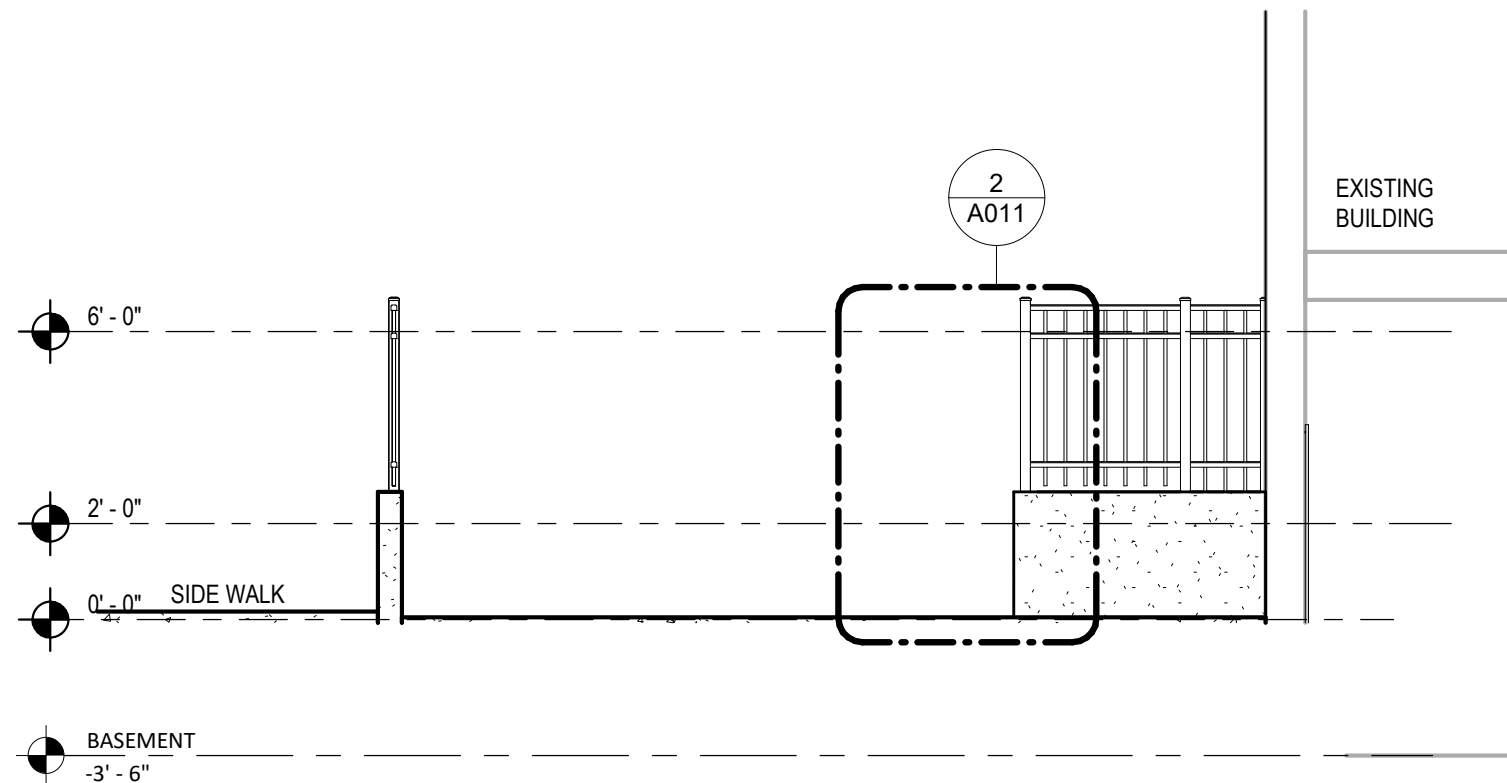
1 GENERATOR ENCLOSURE SITE PLAN ENLARGED
SCALE: 1/2" = 1'-0"



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



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



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

GENERAL NOTE:

- SIDEWALK AND CURB TO BE DEMOLISHED AND RE POURED TO FACILITATE CONSTRUCTION. PORTION OF THE NORTHERN AND SOUTHERN DRIVEWAYS WILL NEED TO BE REMOVED FOR CONSTRUCTION OF THE RETAINING WALL AND FENCE.
- COORDINATE ALL WORK WITH MEP SCOPE
- CONTRACTOR TO VERIFY ALL ELEVATIONS AND PIPING INVERTS PRIOR TO STARTING WORK.
- CONTRACTOR TO COORDINATE WITH THE CITY OF CAMAS TO OBTAIN PROPER RIGHT OF WAY PERMITS.
- ALL DIMENSIONS ARE TO BE VERIFIED BY CONTRACTOR PRIOR TO STARTING WORK.
- CONTRACTOR TO SUBMIT PLAN OF WORK FOR APPROVAL FROM CITY OF CAMAS AND ENGINEER OF RECORD FOR EXCAVATING AND PIPING INSTALLATION PRIOR TO COMMENCING WORK.
- ALL CONCRETE AND PAVEMENT TRENCH CUTS ARE TO BE FULL DEPTH.
- CONTRACTOR TO INSTALL STORM PIPING TO WEEP HOLES. CONFIRM PIPE ROUTING AND GRADING PRIOR TO STARTING WORK.
- CONTRACTOR TO BED AND BACKFILL ALL PIPING PER THE SPECIFIC REQUIREMENTS OF THE CITY OF CAMAS.
- ALL ELEVATIONS ARE BASED OFF THE ELEVATION CONTROL POINT LOCATED AT THE SILL PLATE FOR THE EXISTING EXTERIOR MAN DOOR TO THE GARAGE.

KEYNOTES:

- REPLACE CONCRETE SIDEWALK PER CITY OF CAMAS DETAIL ST18P103. SIDEWALK GRADE TO MATCH THE SURROUNDING WORK HAPPENING IN THIS AREA. FINAL GRADE TO BE CONFIRMED WITH THE CITY OF CAMAS PRIOR TO COMPLETING WORK PER CITY OF CAMAS. PER CITY OF CAMAS PROVIDE APPROXIMATELY 26 CY. OF CONCRETE.



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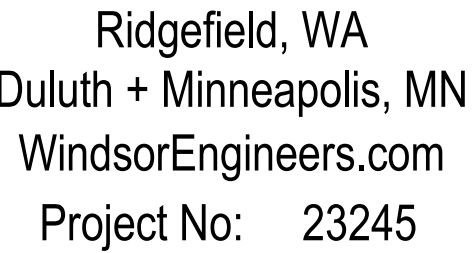
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ARCHITECTURAL
SITE PLAN &
ELEVATIONS

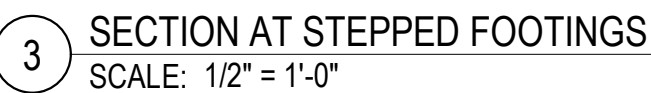
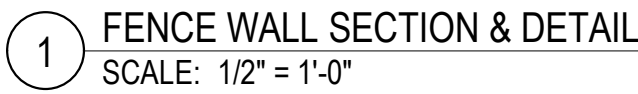
A010



CAMAS CITY HALL GENERATOR

616 NE 4TH AVE,
CAMAS, WA 98607

A011



GENERAL NOTE:

A. CANTILEVERED RETAINING WALL AND FOOTING
SEE STRUCTURAL SHEETS S001 & S102.

B. STEP FOOTING AT DRIVEWAY, PER STRUCTURAL

GENERAL

1. MATERIALS AND WORKMANSHIP SHALL CONFORM TO REQUIREMENTS OF CONSTRUCTION DOCUMENTS, AND THE FOLLOWING:
2021 INTERNATIONAL BUILDING CODE (IBC)
ASCE/SEI 7-16 ASCE MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES (ASCE)
REFERENCE TO CODES, RULES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS OF REGULATORY AGENCIES IS TO LATEST PRINTED EDITION OF EACH IN EFFECT AT DATE OF CONSTRUCTION DOCUMENTS, UNLESS CODE REFERENCE DATE IS SPECIFICALLY SHOWN.
2. GENERAL NOTES SUPPLEMENT REQUIREMENTS OF PROJECT SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN PLANS AND SPECIFICATIONS, CONTACT ENGINEER OF RECORD.
3. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED, BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION, SUBJECT TO REVIEW BY ENGINEER OF RECORD.
4. INFORMATION SHOWN ON DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENT PRESENT KNOWLEDGE WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH CONTRACT DOCUMENTS TO ENGINEER OF RECORD. DO NOT DEVIATE FROM CONSTRUCTION DOCUMENTS WITHOUT WRITTEN DIRECTION FROM ENGINEER OF RECORD.
5. DO NOT SCALE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK OF ALL TRADES AND CHECKING DIMENSIONS. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES AND RESOLVE BEFORE PROCEEDING.
6. CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND MEETING REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK TO ENSURE THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST DAMAGE BY FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH WORK. PROVIDE MEASURES NECESSARY TO PROTECT STRUCTURE DURING CONSTRUCTION. SUCH MEASURES INCLUDE, BUT MAY NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DURING CONSTRUCTION, ADEQUATELY BRACE STRUCTURE AND ALL STRUCTURAL COMPONENTS AGAINST WIND, EARTH, AND SEISMIC FORCES UNTIL THE PERMANENT LATERAL-FORCE RESISTING SYSTEMS HAVE BEEN INSTALLED. RETAIN A LICENSED CIVIL ENGINEER TO DESIGN BRACING, SHORING, ETC. SITE VISITS BY ENGINEER OF RECORD DO NOT INCLUDE OBSERVATION OF SHORING, PROTECTION, ETC. LISTED ABOVE.
7. APPLY, PLACE, ERECT, OR INSTALL ALL PRODUCTS AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

DESIGN CRITERIA

1. GRAVITY DESIGN DATA:
ROOF DEAD LOAD:
ROOF
ROOF LIVE LOAD (REDUCIBLE PER ASCE 4.8.2):
MINIMUM ROOF
ROOF SNOW LOAD:
GROUND SNOW LOAD, P_g:
FLAT-ROOF SNOW LOAD, P_f:
SNOW EXPOSURE FACTOR, C_e:
IMPORTANCE FACTOR, I_g:
THERMAL FACTOR, C_t:
SLOPE FACTOR, C_s:
DEFLECTION LIMITS:
ROOF LIVE LOAD
ROOF SNOW OR WIND LOAD
ROOF DEAD AND LIVE LOAD
- 15 PSF
20 PSF
35 PSF (ASCE 7.2)
25 PSF (ASCE 7.3)
1.0 (ASCE TABLE 7.3-1)
1.0 (ASCE TABLE 1.5-2)
1.0 (ASCE TABLE 7.3-2)
1.0 (ASCE 7.4 AND TABLE 7.4-1)
L/240
L/240
L/180
2. WIND DESIGN DATA:
BASIC DESIGN WIND SPEED, V:
ASD WIND SPEED, V_{asd} =V/0.6:
RISK CATEGORY:
WIND EXPOSURE:
- 135 MPH (IBC 1609.3.1)
105 MPH (IBC EQUATION 16-33)
II (ASCE TABLE 1.5-1)
SURFACE ROUGHNESS B (ASCE 26.7.2) (WS AND EW DIRECTIONS)
EXPOSURE B (ASCE 26.7.3) (N/S AND E/W DIRECTIONS)
3. EARTHQUAKE DESIGN DATA:
RISK CATEGORY:
SEISMIC IMPORTANCE FACTOR, I_e:
MAPPED SPECTRAL RESPONSE
ACCELERATION PARAMETERS, S_s/S₁:
SITE CLASS:
DESIGN SPECTRAL RESPONSE
ACCELERATION PARAMETER, S_{DS}:
SEISMIC DESIGN CATEGORY:
- II (ASCE TABLE 1.5-1)
1.00 (ASCE TABLE 1.5-2)
0.80/1.0/ 348
D – STIFF SOIL (ASCE 20.3 AND TABLE 20.3-1)
0.641
D (ASCE 11.6)

STRUCTURAL STEEL

1. REFERENCE STANDARDS (CURRENTLY ADOPTED EDITIONS)
A. AISC "MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN".
B. AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES".
C. RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
D. AWS D1.1 "STRUCTURAL WELDING CODE - STEEL".
E. AWS D1.6 "STRUCTURAL WELDING CODE - STAINLESS STEEL".
2. STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE:
- | SECTIONS | TYPE |
|---|-----------|
| ROLLED SHAPES | |
| PLATES | |
| OTHER | ASTM A36 |
| STAINLESS STEEL SHAPES, PLATES AND BARS RODS, NUTS, WASHERS AND BOLTS | ASTM A276 |
| CONNECTORS AND STUDS | |
| MACHINE BOLTS (HEX HEAD) | ASTM A307 |
3. HOT DIP GALVANIZE IN ACCORDANCE WITH ASTM A123 AND ASTM A153, CLASS C, STRUCTURAL STEEL AND FASTENERS THAT ARE PERMANENTLY EXPOSED TO THE WEATHER. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780 TO ACHIEVE ORIGINAL GALVANIZING THICKNESS.
4. STRUCTURAL STEEL AND CONNECTIONS EXPOSED TO VIEW IN COMPLETED STRUCTURES ARE TO BE DESIGNATED ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS).
5. PROVIDE NATURAL CAMBER UP, UNLESS NOTED OTHERWISE. EXCEPT AT CANTILEVERS. AT CANTILEVERS PROVIDE CAMBER SUCH THAT TIP OF CANTILEVER IS ABOVE FINAL ELEVATION.
6. SPLICE MEMBERS ONLY WHERE INDICATED.
7. CONNECT ALL MEMBERS WITH HIGH-STRENGTH BOLTS AND CONFORM TO THE FOLLOWING:
A. BEARING TYPE CONNECTIONS:
B. PROVIDE TYPE N BOLTS AT ALL LOCATIONS NOT NOTED ON DRAWINGS AS TYPE SC.
C. PROVIDE HARDENED WASHERS UNDER ELEMENTS TO BE TIGHTENED. PROVIDE NUTS & WASHERS IN ACCORDANCE W/ THE STRUCTURAL STEEL MEMBER TABLE.
D. TIGHTEN BOLTS TO A SNUG TIGHT CONDITION.
E. SLIP CRITICAL CONNECTIONS (TYPE SC):
F. PROVIDE LOAD-INDICATING BOLT ASSEMBLIES. INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
8. IN LIEU OF LOAD-INDICATING BOLTS, PROVIDE STANDARD TYPE ASTM A325 SC BOLTS (CLASS A) WITH LOAD-INDICATING WASHERS. WASHERS TO CONFORM WITH ASTM F959.
9. FULLY TENSION TYPE SC BOLTS.
10. REMOVE ALL PAINT AT SLIP-CRITICAL BOLT CONTACT SURFACES AND PROVIDE CLASS A FAYING SURFACE.
11. DO NOT WELD HIGH-STRENGTH BOLTS.
12. ALL BOLT HOLES TO BE STANDARD SIZED HOLES, UNLESS NOTED OTHERWISE.
PROVIDE BEVELED WASHERS AT BOLT HEADS OR NUTS BEARING ON SLOPING SURFACES.
CONTRACTOR TO DESIGN AND PROVIDE ERECTION AIDS (BOLTS, CLIPS, SHIMS, SEATS, ETC) REQUIRED TO FACILITATE CONSTRUCTION.
13. APPLY BITUMINOUS ASPHALT COATING TO ALL BURIED STEEL ELEMENTS.
ARC-WELDING ELECTRODES/FILLER METALS TO BE LOW HYDROGEN TYPES E70TX, E70TXX OR E70XXX MINIMUM AS APPLICABLE. ELECTRODES WITH CHARPY V-NOTCH (CVN) TEST VALUES OF A MINIMUM 20 FT-LBS AT MINUS 20 DEGREES FAHRENHEIT AND 40 FT-LBS AT 70 DEGREES FAHRENHEIT ARE TO BE USED AT THE FOLLOWING LOCATIONS:
A. COMPLETE JOINT PENETRATION WELDS
B. BEAM TO COLUMN MOMENT CONNECTIONS - INCLUDING FLANGE, WEB, AND CONTINUITY PLATE FILLET AND PARTIAL JOINT PENETRATION WELDS
C. BRACE CONNECTIONS - INCLUDING BRACE, GUSSET, BASE PLATES, BEAM STIFFENER PLATES, AND CONTINUITY PLATE FILLET AND PARTIAL JOINT PENETRATION WELDS
D. WELDS NOTED "CVN" ON THE DRAWINGS
14. WELDERS TO BE CERTIFIED BY AMERICAN WELDING SOCIETY AND THE GOVERNING JURISDICTION.

WOOD FRAMING

1. LUMBER SHALL CONFORM TO THE FOLLOWING:
- | MEMBER | SPECIES AND COMMERCIAL GRADE |
|--|------------------------------|
| DIMENSION LUMBER, UNLESS NOTED OTHERWISE | DOUGLAS FIR-LARCH #2 |
| STUDS | DOUGLAS FIR-LARCH #2 |
| BEAMS 4½" AND SMALLER | DOUGLAS FIR-LARCH #2 |
| BEAMS 5½" AND LARGER | DOUGLAS FIR-LARCH #2 |
| POSTS, 4x6 AND SMALLER | DOUGLAS FIR-LARCH #2 |
| POSTS, 6x6 AND LARGER | DOUGLAS FIR-LARCH #2 |
| BACKING, STRIPPING, AND FURRING | CONSTRUCTION |
| PRESERVATIVE TREATED LUMBER | HEM-FIR #2 |
2. LUMBER SHALL BE GRADED AND MARKED IN ACCORDANCE WITH THE STANDARD GRADING RULES OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR WESTERN LUMBER GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA).
3. LUMBER IN CONTACT WITH CONCRETE OR MASONRY OR EXPOSED TO EXTERIOR ENVIRONMENT IN ANY CIRCUMSTANCE SHALL BE PRESERVATIVE TREATED LUMBER. ENDS OF FIELD CUT PRESSURE TREATED WOOD SHALL CONFORM TO AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD M4 FOR STANDARD OF CARE.
4. MAXIMUM LUMBER MOISTURE CONTENT SHALL BE 19 PERCENT.
5. PROVIDE MEMBER DEPTH SOLID BLOCKING AT ALL POINTS OF BEARING WITH MAXIMUM SPACING OF 8'-0" OC. PROVIDE BLOCKING BETWEEN STUDS AT BEARING WALLS TO PREVENT STUD BUCKLING PRIOR TO INSTALLATION OF GYPSUM WALL BOARD.
6. DO NOT USE SHIMS UNDER STUDS, JOISTS, BEAMS, OR POSTS.
7. EXTERIOR AND INTERIOR BEARING WALL STUDS IN MULTISTORY STRUCTURES SHALL BE VERTICALLY ALIGNED TO PROVIDE DIRECT LOAD PATH TO FOUNDATION.

FRAMING CONNECTIONS

1. FRAMING CONNECTIONS SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE:
- | CONNECTION | NAILS |
|--|------------------------------------|
| STUDS TO PLATES - END NAIL | (2) 16d COMMON OR (3) 10d |
| STUDS TO PLATES - TOE NAIL | (4) 10d |
| TOP PLATES & BOTTOM PLATES - SPIKE TOGETHER | 10d AT 8" OC |
| LAP AND INTERSECTIONS | (4) 10d EACH SIDE JOINT |
| FLOOR, ROOF, CEILING JOISTS- TO PLATES OR BEAMS - TOE NAIL | (2) 10d |
| BLOCKING TO PLATE - TOE NAIL | (2) 10d |
| BLOCKING TO JOISTS - EACH END | (2) 10d |
| CORNER STUDS | 10d AT 12" OC |
| 2x LAMINATED BEAMS | (2) ROWS STAGGERED 10d AT 12" OC |
| 2x6 TONGUE AND GROOVE- EACH BOARD TO SUPPORTING MEMBERS | (1) 16d TOE NAIL AND 16d FACE NAIL |
| 2x6 TONGUE AND GROOVE- TO PARALLEL WALLS AND BEAMS | (1) 40d FACE NAIL AT 8" OC |
| 3x6 TONGUE AND GROOVE- EACH BOARD TO SUPPORTING MEMBERS | (1) 40d TOE NAIL AND 60d FACE NAIL |
| 3x6 TONGUE AND GROOVE- TO PARALLEL WALLS AND BEAMS | (1) 60d FACE NAIL AT 8" OC |
2. NAILS:
A. COMMON WIRE NAILS, FEDERAL SPECIFICATION FF-N-105B, STANDARD LENGTHS, UNLESS NOTED OTHERWISE. USE HOT-DIPPED ZINC-COATED GALVANIZED NAIL FOR EXTERIOR INSTALLATIONS AND WHEN IN CONTACT WITH PRESERVATIVE TREATED OR FIRE-RETARDANT LUMBER.
B. DRIVE NAILS PERPENDICULAR TO THE GRAIN, UNLESS NOTED OTHERWISE.
C. PRE-DRILL HOLES TO ¾" DEEP x NAIL DIAMETER WHERE SPECIFIED AND WHEN WOOD TENDS TO SPLIT.
D. AIR-DRIVEN NAILS TO BE FULL-HEADED NAILS. DO NOT OVERDRIVE NAILS.
E. AT FLOOR AND ROOF SHEATHING, USE RING SHANK NAILS. USE SMOOTH SHANK NAILS AT WALLS.
F. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND APPROVAL BY ENGINEER OF RECORD. NAIL HEADS THAT PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF THE MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE INSTALLATION IS UNSATISFACTORY. MACHINE NAILING IS NOT APPROVED IN ¾" OR LESS SHEATHING.
3. BOLTS AND THREADED RODS:
A. ASTM A307, HEXAGONAL HEAD MACHINE BOLTS WITH ASTM A563 NUTS. USE MALLEABLE IRON WASHERS UNDER HEAD AND NUT WHEN IN CONTACT WITH LUMBER.
B. DRILL BOLT HOLES A MAXIMUM OF ¼", LARGER IN DIAMETER THAN BOLT NOMINAL DIAMETER. SCREWS:
A. ASTM A307, ANSI/ASME STANDARD B18.6.1. USE CADMIUM-PLATED PAN OR ROUND HEADED SCREWS AT STEEL-TO-WOOD AND WOOD-TO-WOOD CONNECTIONS.
LAG SCREWS:
A. ASTM A307, ANSI/ASME STANDARD B18.2.1. USE ANSI B18.22.1 WASHERS UNDER HEAD WHEN IN CONTACT WITH WOOD.
B. DRILL PRE-BORED LEAD HOLES FOR SHANK TO A DEPTH EQUAL TO THE LENGTH OF THE UNTHREADED PORTION IN MAIN MEMBER. USE A DRILL BIT 60 PERCENT OF DIAMETER OF LAG SCREW.
C. INSERT LAG SCREW INTO LEAD HOLE BY TURNING. DO NOT DRIVE WITH A HAMMER. LUBRICATE WITH SOAP OR BEESWAX TO FACILITATE INSTALLATION.
4. LEDGERS:
A. ANCHOR ALL PLATES AND LEDGERS WITH A MINIMUM OF (3) ANCHORS.
B. MAXIMUM SPACING OF WOOD PLATE OR LEDGER CONNECTIONS SHALL BE 48" OC, UNLESS NOTED OTHERWISE.
C. PLACE ANCHOR 12" FROM SPLICE OR END OF MEMBER.
5. BOLTS, NUTS, WASHERS, STRAPS AND OTHER HARDWARE EXPOSED TO THE WEATHER OR PRESERVATIVE TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
6. FRAMING CONNECTORS:
A. SIMPSON STRONG-TIE OR APPROVED EQUIVALENT.
B. FILL ALL HOLES WITH NAILS OR SCREWS AS SPECIFIED BY THE CONNECTOR MANUFACTURER, UNLESS NOTED OTHERWISE.
C. CONNECTIONS IN CONTACT WITH PRESERVATIVE TREATED LUMBER SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED.

REINFORCING STEEL (CAST-IN-PLACE CONCRETE)

1. REFERENCE STANDARDS (CURRENTLY ADOPTED EDITIONS)
A. ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE", SECTION 3 "REINFORCEMENT AND REINFORCEMENT SUPPORTS".
B. ACI SP-66 "ACI DETAILING MANUAL" INCLUDING ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".
C. CRSI MSP-1 "MANUAL OF STANDARD PRACTICE".
D. ANSI/AWS D1.4 "STRUCTURAL WELDING CODE - REINFORCING STEEL".
E. IBC CHAPTER 19, "CONCRETE".
F. ACI 318 AND ACI 318R, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
G. ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".
2. PROVIDE REINFORCING SHOWN OR NOTED IN CONTINUOUS LENGTHS AS LONG AS PRACTICABLE.
3. TERMINATE REINFORCING STEEL WITH STANDARD HOOKS, UNLESS NOTED OTHERWISE.
4. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT FROM DISPLACING DUE TO FORMWORK, CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING WITH METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS AT A MAXIMUM 3'-0" OC SPACING.
5. SPLAY REINFORCING AROUND OPENINGS AT A RATIO OF 1 SPLAY TO 6 LENGTH, UNLESS NOTED OTHERWISE.
6. REINFORCING SHALL CONFORM TO THE FOLLOWING:
- | LOCATION | TYPE |
|--|-------------------|
| ALL LOCATIONS, UNLESS NOTED OTHERWISE | ASTM A615, 60 KSI |
| SMOOTH DOWELS | ASTM A36, 36 KSI |
| WELDED WIRE FABRIC | ASTM A185, 70 KSI |
| REINFORCING #8 AND LARGER, REINFORCING TO BE WELDED, SHEAR WALLS, MOMENT FRAMES, AND COLUMNS | ASTM A706, 60 KSI |
| SMOOTH STEEL WIRE FOR SPIRALS | ASTM A82, 70 KSI |
7. LAP SPLICES SHALL CONFORM TO THE FOLLOWING:
- | LAP SPLICE LENGTHS FOR BARS IN WALLS, SLABS AND FOOTINGS (F _c = 3,000 PSI) | | | | | | | | |
|---|-------------|-------|-------------|-------|-------------|-------|-------------|-------|
| BAR SIZE | 0.75" COVER | | 1.50" COVER | | 2.00" COVER | | 3.00" COVER | |
| | TOP | OTHER | TOP | OTHER | TOP | OTHER | TOP | OTHER |
| #4 | 28" | 22" | 23" | 17" | 23" | 17" | 23" | 17" |
| #5 | 41" | 32" | 28" | 22" | 28" | 22" | 28" | 22" |
8. CONCRETE FOOTINGS DESIGNED WITH COMPRESSIVE STRENGTH, F_c=2,500 PSI, THEREFORE NO SPECIAL INSPECTION REQUIRED. (IBC 1705.3)

CAST-IN-PLACE CONCRETE

1. REFERENCE STANDARDS (CURRENTLY ADOPTED EDITIONS)
A. ALL CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH ACI 318.
B. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
C. IBC CHAPTER 19 "CONCRETE".
2. CONCRETE IS REINFORCED AND CAST-IN-PLACE, UNLESS NOTED OTHERWISE. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS. SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE AND ENGINEER OF RECORD. SUBSTITUTION OF SHOTCRETE FOR CAST-IN-PLACE CONCRETE IS NOT ACCEPTABLE.
3. WHERE CONCRETE IS CAST AGAINST EXISTING, INCLUDING CONSTRUCTION JOINTS, ROUGHEN CONTACT SURFACES TO ¼" AMPLITUDE WITH LIGHT SANDBLASTING OR OTHER MEANS AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES. PREPARE AS SATURATED SURFACE DRY. EMBEDDED ANCHORS, STRAPS AND OTHER HARDWARE SHALL BE FIRMLY SUPPORTED AND TIED SECURELY INTO PLACE PRIOR TO POURING OF CONCRETE. PLACEMENT MAY ONLY BE "WET SET" WITH CONTINUOUS SPECIAL INSPECTION AND VIBRATION TO ENSURE FULL CONTACT OF CONCRETE. CONCRETE COVER SHALL CONFORM TO THE FOLLOWING:
- | CONCRETE EXPOSURE | MEMBER | REINFORCEMENT | SPECIFIED COVER |
|--|---|---|-----------------|
| CAST AGAINST PERMANENTLY IN CONTACT WITH GROUND | ALL | ALL | 3" |
| EXPOSED TO WEATHER OR IN CONTACT WITH GROUND | ALL | #5 BAR, W31 OR D31 WIRE, AND SMALLER | 1½" |
| | | #6 THROUGH #18 BARS | 2" |
| | SLAB, JOISTS, AND WALLS | #11 BAR AND SMALLER | ¾" |
| | | #14 THROUGH #18 BARS | 1½" |
| NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND | BEAMS, COLUMNS, PEDESTALS, AND TENSION TIES | REINFORCEMENT, STIRRUPS, TIES, SPIRALS, AND HOOPS | 1½" |
| ALL | ALL | EMBEDDED BOLTS AND BETWEEN PARALLEL BARS | 1" |
6. CONCRETE MIX AND STRENGTH SHALL CONFORM TO THE FOLLOWING:
- | USE | 28 DAYS STRENGTH (F _c) | MAX W/C RATIO NON-AIR ENTRAINED | MAX W/C RATIO AIR ENTRAINED | MIN CEMENT CONTENT |
|------------------------|------------------------------------|---------------------------------|-----------------------------|--------------------|
| FOOTINGS | 3,000 PSI | 0.50 | - | 5 SACKS PER YARD |
| EXTERIOR EXPOSED WALLS | 3,000 PSI | 0.45 | - | 5½ SACKS PER YARD |
| EXTERIOR EXPOSED SLAB | 4,000 PSI | 0.45 | - | 5½ SACKS PER YARD |

CONCRETE MIX REQUIREMENTS:

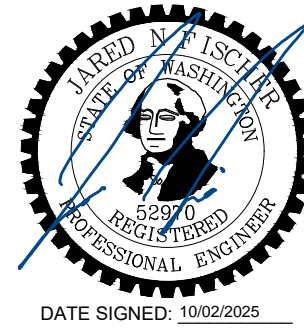
- A. ROUGH AGGREGATE SIZE FOR SLAB ON GRADE SHALL BE 1" MINUS FOR SLABS LESS THAN 5" THICK AND 1½" MINUS FOR SLABS 5" AND THICKER.
- B. ADD SUPPLEMENTARY CEMENTITIOUS MATERIAL TO SLAB ON GRADE AND EXPOSED WALL CONCRETE MIXES. DO NO ADD SUPPLEMENTARY CEMENTITIUOS MATERIAL TO AIR ENTRAINED MIXES. PROVIDE BETWEEN 10 PERCENT AND 20 PERCENT REPLACEMENT OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS. INCLUDE THIS MATERIAL IN WATER CEMENT RATIO. SUPPLEMENTARY CEMENTITIOUS MATERIAL TO BE SLAG OR FLY ASH. SLAG TO MEET ASTM C989 GROUND GRANULATED BLAST-FURNACE SLAG ADDED PER ASTM C595. FLY ASH TO MEET ASTM C618 WITH LOSS ON IGNITION TO BE 3 PERCENT OR LESS. SUPPLEMENTARY CEMENTITIOUS MATERIAL MAY BE ADDED TO OTHER CONCRETE MIXES AND INCLUDED IN WATER CEMENT RATIO BUT IS NOT TO BE USED AS PERT OF THE MINIMUM CEMENT. SUPPLEMENTARY MATERIAL NOT TO EXCEED 20 PERCENT OF TOTAL WEIGHT OF CEMENTITIOUS MATERIALS UNLESS SPECIFICALLY APPROVED, AND SPECIAL TESTING IS PROVIDED BY CONTRACTOR TO CONSIDER LATE STRENGTH DEVELOPMENT AND FINISHING. SILICA FUME BY ASTM C1240.
- C. DESIGN SLUMP SHALL BE A MINIMUM OF 3" AND MAXIMUM OF 9". FIELD VARIATION FROM SLUMP +½" TO -1". WHEN CONCRETE IS TO BE PUMPED ADD PLASTICIZERS AND PROVIDE A NEW MIX DESIGN TO INCREASE SLUMP TO A PUMPABLE MIX. DO NOT ADD WATER AT THE JOBSITE UNLESS AUTHORIZED BY CONCRETE SUPPLIER.
- D. AIR ENTRAINMENT SHALL BE PER ACI AT ALL EXTERIOR SLABS AND FLAT WORK.
- E. ADMIX SHALL BE WATER REDUCING ADMIX (POZZOLITH/POLYHED/RHEOBUILD OR EQUAL).
- F. ALL ADMIXTURES ARE TO BE FROM THE SAME MANUFACTURER UNLESS EVIDENCE IS SUBMITTED VERIFYING COMPATIBILITY OF MULTIPLE SOURCE ADMIXTURES.

SHEET INDEX	
SHEET NUMBER	SHEET NAME
S001	GENERAL NOTES
S102	PLAN AND DETAILS



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Revisions:

100% CD

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CHECKED BY: _____

Issue Date:
10/22/2025

STRUCTURAL

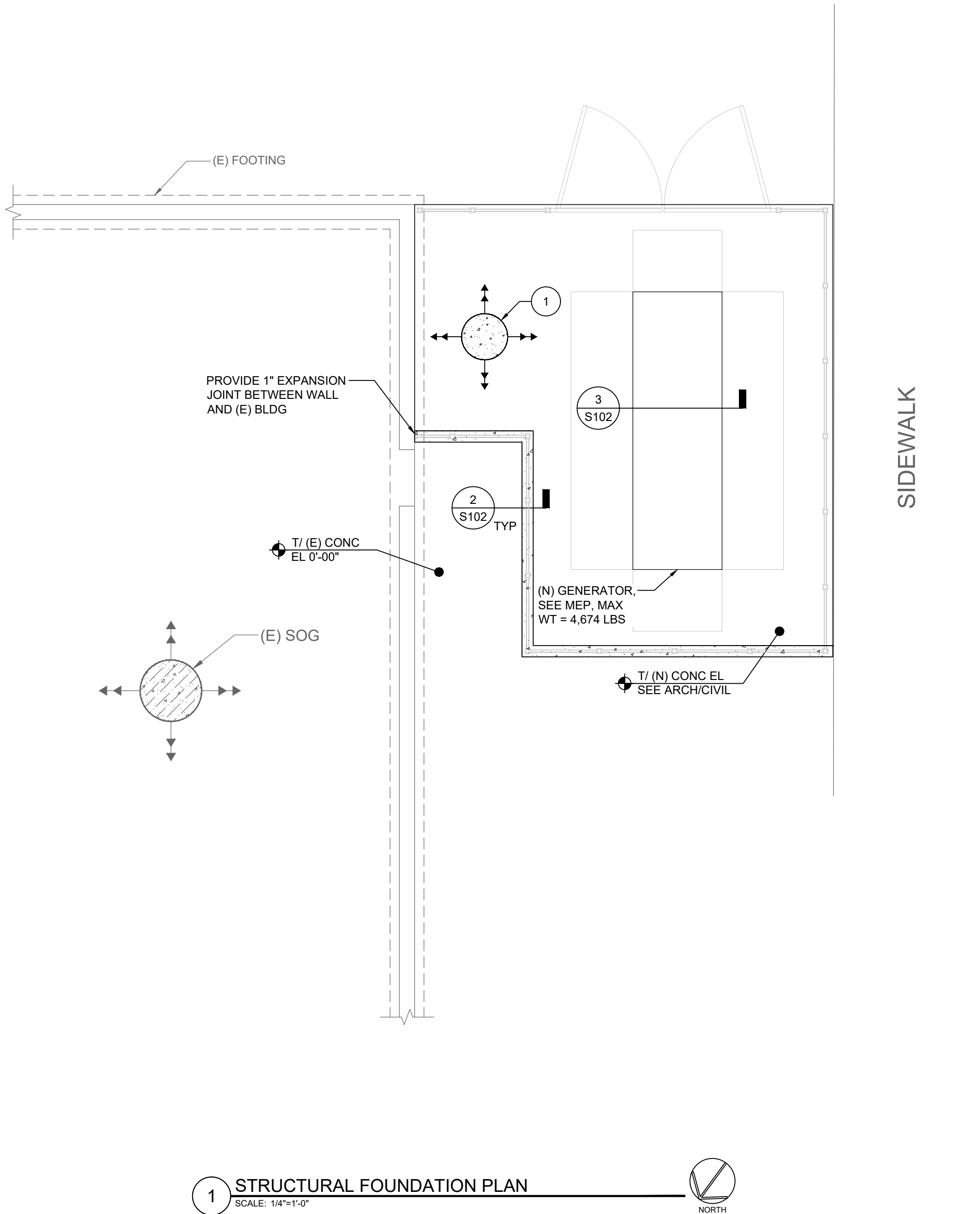
GENERAL NOTES

S001

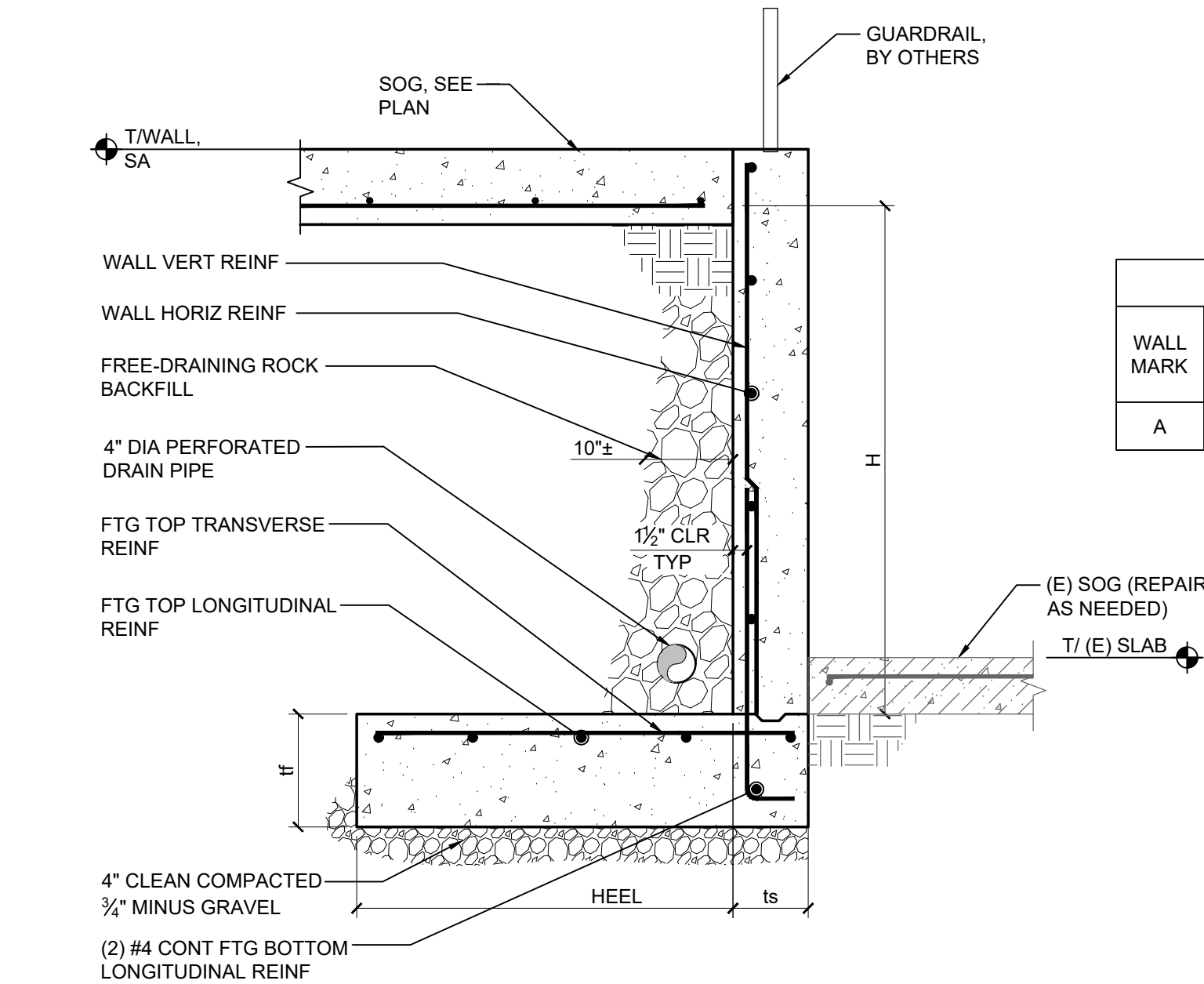
STRUCTURAL PLAN NOTE:
REFER TO MEP DRAWINGS FOR ALL DIMENSIONS AND ALL ITEMS REQUIRED TO BE COORDINATED WITH THIS WORK, BUT NOT SHOWN ON THESE DRAWINGS.

KEYED NOTES:

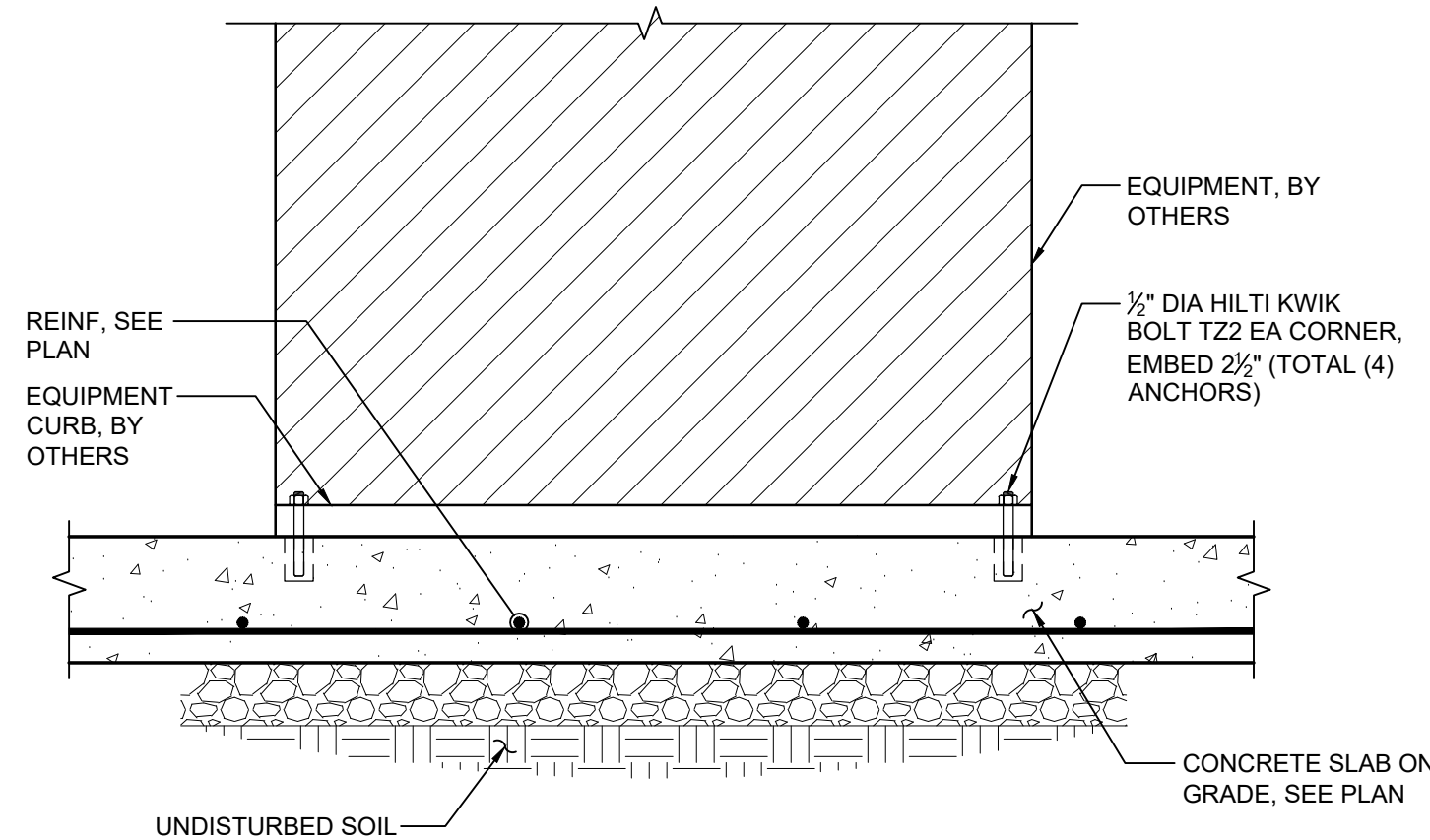
1 INDICATES 8" THICK SLAB WITH #4 AT 12" OC CENTERED VERTICALLY IN SLAB.



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



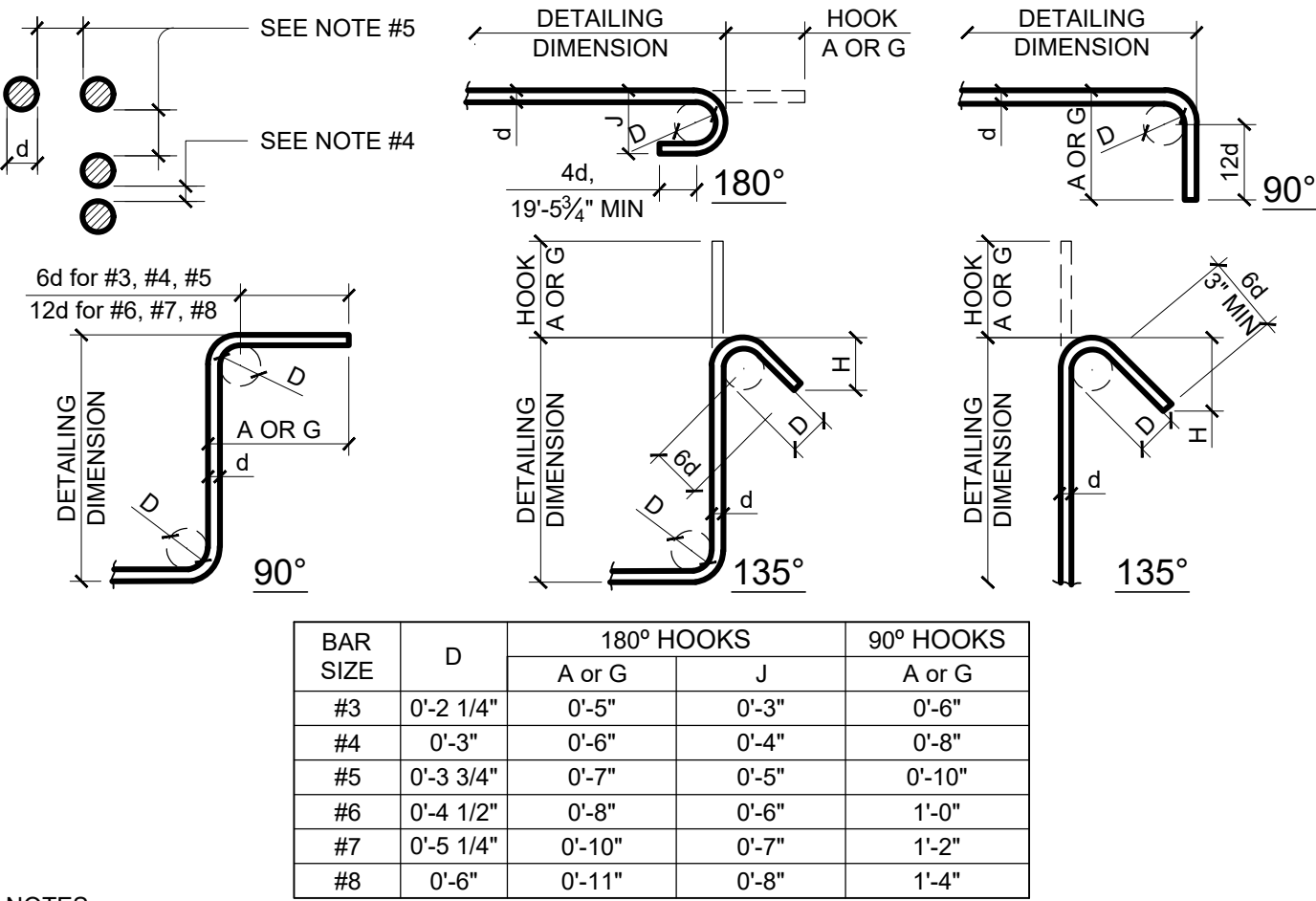
2 CANTILEVERED RETAINING WALL (#4 REBAR)
SCALE: 3/4"=1'-0"



3 EQUIPMENT PAD
SCALE: 1"=1'-0"

CANTILEVERED RETAINING WALL SCHEDULE								
WALL MARK	H(MAX)	ts	HEEL	tf	WALL REINF		FTG REINF	
					VERT	HORIZ	TOP TRANSVERSE	TOP LONGITUDINAL
A	3'-0"	6"	0'-9"	12"	#4 AT 16" OC	#4 AT 16" OC	#4 AT 9" OC	(3) #4

NOTES:
1. REF PLANS AND DETAILS FOR CONDITION AT TOP OF RETAINING WALL.
2. SOG TO BE INSTALLED PRIOR TO BACKFILL PLACEMENT.

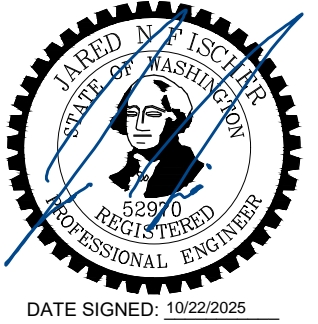


NOTES:
1. D = FINISHED INSIDE BEND DIAMETER (INCLUDES SPRINGBACK)
2. d = BAR DIAMETER
3. COLUMN DOWELS, TYPICAL HORIZONTAL WALL STEEL AND TYPICAL WALL STEEL DOWELS MAY BE WIRED TOGETHER INSTEAD OF SPACING AS SHOWN ABOVE.
4. CLEAR DISTANCE LIMITATION BETWEEN BARS SHALL APPLY ALSO TO THE CLEAR DISTANCE BETWEEN A CONTACT LAP SPLICE AND ADJACENT SPLICES OF BARS.
5. MAX BAR SPACING FOR BARS SPLICED BY NONCONTACT LAP SPLICES SHALL NOT BE SPLICED TRANSVERSELY FURTHER APART THAT ONE-FIFTH THE REQUIRED LAP SPLICE LENGTH, NOR 6".
6. MIN BAR SPACING FOR NON-SPLICED BARS 1 1/2" OR 1 1/4" WHICHEVER IS LARGER

4 TYP HOOKS, BENDS, AND SPACING
SCALE: 1"=1'-0"



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STRUCTURAL

PLAN AND DETAILS

S102

THIS SCOPE OF WORK INCLUDES:
REMOVAL OF CITY HALLS EXISTING. STANDBY POWER GENERATOR LOCATED WITHIN THE BUILDINGS BASEMENT GARAGE AND INSTALLATION OF A NEW DIESEL GENERATOR TO BE LOCATED AT THE BUILDINGS EXTERIOR. THIS WORK WILL REQUIRE CONNECTING THE NEW GENERATOR SYSTEM INTO CITY HALLS EXISTING SYTEM UNTIL FURTHER ELECTRICAL IMPROVEMENTS CAN BE MADE IN FUTURE.
THIS PROJECT IS PART OF LARGER IMPROVEMENTS TO CITY HALLS MEP SYSTEM PLANNED FOR FUTURE CONSTRUCTION.

THIS WORK WILL REQUIRE COORDINATION BETWEEN MULTIPLE TRADES. SCOPE OF WORK INCLUDES BUT IS NOT LIMITED TO FOLLOWING:

*INSTALLATION OF A OWNER PROVIDED DIESEL GENERATOR AND ATS. GENERATOR IS WITHIN STORAGE AT PACIFIC POWER LOCATED IN RIDGEFIELD, WA.
*CONSTRUCTION OF A GENERATOR PAD REQUIRING AN IN-FIELD RETAINING WALLS , FOOTINGS, SLABS AND EQUIPMENT PADS, GENERATOR ENCLOSURE WITH ARCHITECTURAL FENCING, GATES, AND REMOVAL AND REPLACEMENTS OF SIDEWALK & CURB.
*UNDERGROUND PIPING INCLUDING BUT NOT LIMITED TO STORMWATER ROOF DOWNSPOUTS, CATCH BASINS AND VAULTS, ELECTRICAL CONDUITS AND VAULTS.

EQUIPMENT NAMING LEGEND	
TYPICAL PANELBOARD CONVENTION	
LINE-LINE VOLTAGE* 4 = 480V 2 = 208V	EXAMPLE: 4NM-1A-2
POWER BRANCH N = NORMAL S = STANDBY, LEGALLY REQ. SB E = LIFE SAFETY	
BUILDING SYSTEM R = RECEPTACLE LOADS L = LIGHTING SYSTEMS M = MECHANICAL SYSTEMS W = WATER SYSTEMS T = TELECOM SYSTEMS	
LEVEL: P1, 1, 2, ...	
SECTOR INDICATOR A = SECTOR A B = SECTOR B	
# IN SERIES**	
MAIN DIST. EQUIPMENT MAY OMIT BUILDING SYSTEM, LEVEL, SECTOR, ETC. FOR NAMING SIMPLIFICATION.	
LINE-LINE VOLTAGE* EQUIPMENT MDP = MAIN DIST. PANEL SDP = SUB DIST. PANEL X = XFMR SE = SERVICE ENTRANCE	EXAMPLE: 4MDP-R
SERVICE*** R = RESIDENTIAL SERVICE H = HOUSE SERVICE EV = EV SERVICE	
POWER BRANCH**	
NOTES: * USED WHEN MULTIPLE L-L VOLTAGES ARE PRESENT. ** OMITTED AS NEEDED FOR SIMPLIFICATION. *** USED ONLY ON MULTI-SERVICE PROJECTS	

ONE-LINE SYMBOLS LEGEND	
	CIRCUIT BREAKER
	BUS DUCT PLUG-IN CIRCUIT BREAKER
	FUSED SWITCH
	CURRENT TRANSFORMERS
	GROUND CONNECTION
	CONDUIT CONTINUATION
	CONDUIT CAP
	FEEDER CALLOUT
	SURGE PROTECTIVE DEVICE
	AUTOMATIC TRANSFER SWITCH
	TRANSFORMER
	ELECTRICITY METER
	GENERATOR

POWER DEVICE SYMBOLS LEGEND	
COMMON DEVICES	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	QUADPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE, VERIFY NEMA CONFIGURATION
	* INDICATES ABOVE COUNTER OR NON-STANDARD HEIGHT FOR ALL WALL DEVICES. REFER TO ARCHITECTURAL / INTERIOR ELEVATIONS FOR EXACT LOCATION, UNO.
	REMOTE GFCI DEVICE
	EQUIPMENT CONNECTION, SEE SCHEDULES
	MOTOR CONNECTION
	POWER DEVICE SWITCH, SEE PLANS FOR ADDITIONAL INFORMATION.
	DISCONNECT SWITCH
	DISCONNECT: F = FUSED, B = BREAKER
	JUNCTION BOX
	JUNCTION BOX WITH POWER OR DATA WHIP, SEE PLANS
	LINE VOLTAGE THERMOSTAT
IN-CEILING DEVICES	
	DUPLEX RECEPTACLE ON CEILING
	DOUBLE DUPLEX RECEPTACLE ON CEILING
	SPECIAL PURPOSE RECEPTACLE ON CEILING, VERIFY NEMA CONFIGURATION
IN-FLOOR DEVICES	
	DUPLEX FLOOR RECEPTACLE FB = FLOORBOX
	DUPLEX FLOOR RECEPTACLE PT = POKE-THROUGH
	COMBINATION FLOORBOX, REFER TO SCHEDULE FOR POWER, DATA, AND AV SCOPE
	FB1 ← NUMBER INDICATES SCHEDULED ENCLOSURE TYPE.
	REFER TO SCHEDULE FOR ADDITIONAL INFO.
DEVICE TYPE / WIRING KEY	
	CIRCUIT NUMBER
	DEVICE TYPE INDICATOR
	ABOVE COUNTER / NON-STANDARD HEIGHT
	SHADING INDICATES SWITCHING OR CONTROL. SEE PLANS
	CIRCUITING INDICATOR. MAY BE REPLACED WITH CIRCUIT NUMBER CALLOUT IN FINAL CONSTRUCTION DOCUMENTS.
LETTER INDICATOR KEY	
CIRCUITING:	DEVICE TYPE:
E = EMERGANCY	B = INTEGRAL USB
U = UPS	G = GFCI
S = STANDBY	W = WEATHER PROOF GFCI
C = CRITICAL	T = ISOLATED GND
D = DED. CKT	

GENERAL SYMBOLS	
	KEYNOTE
	REVISION TAG
	REVISION CLOUD
	DETAIL/PLAN CALLOUT
	NORTH ARROW
	MATCHLINE
	CONTINUATION SYMBOL

ELECTRICAL TAGS	
	MECHANICAL EQUIPMENT TAG. EQUIP. SPECIFIED BY DIV 21, 22, OR 23.
	BUILDING EQUIPMENT TAG. EQUIP. NOT SPECIFIED BY DIV 21, 22, OR 23.

ABBREVIATIONS	
A	AMPERES
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
AV	AUDIO VISUAL
BKR	BREAKER
C	CONDUIT
CKT	CIRCUIT
CO	CONDUIT ONLY
CU	COPPER
CLG	CEILING
CT	CURRENT TRANSFORMER
DAS	DISTRIBUTED ANTENNA SYSTEM
DIA.	DIAMETER
(E)	EXISTING
EGC	EQUIPMENT GROUNDING CONDUCTOR
ERRCS	EMERGENCY RESPONDER RADIO COVERAGE
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FLA	FULL LOAD AMPERES
FSD	FIRE SMOKE DAMPER
FTL	FEED-THRU LUGS
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFPE	GROUND FAULT PROTECTION OF EQUIPMENT
HP	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
KCMIL	THOUSAND CIRCULAR MIL
KVA	KILOVOLT-AMP
KW	KILOWATT
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPERES
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MDU	MEDIA DISTRIBUTION UNIT
MIN	MINIMUM
MLO	MAIN LUG ONLY
MOCPP	MAXIMUM OVERCURRENT PROTECTION
MTS	MANUAL TRANSFER SWITCH
(N)	NEW
NAC	NOTIFICATION APPLIANCE CIRCUIT
OC	ON CENTER
P	POLE
PH	PHASE
PNL	PANEL
PWR	POWER
(R)	RELOCATE
ROW	RIGHT-OF-WAY
S	SWITCH
SDP	SUB-DISTRIBUTION PANEL
SIM	SIMILAR
SPD	SURGE PROTECTIVE DEVICE
TR	TAMPER RESISTANT
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLTS
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WP	WEATHERPROOF
(X)	DEMOLISH
XFMR	TRANSFORMER

TYPICAL DEVICE MOUNTING HEIGHTS	
RECEPTACLES	+18" AFF
RECEPTACLES, ABOVE COUNTER	+6" ABOVE COUNTER, +46" AFF MAX. COORDINATE WITH CASEWORK
PHONE/DATA/CATV OUTLET	+18" AFF
SWITCHES	+46" AFF
THERMOSTATS	+46" AFF
CARD READERS	+46" AFF
PANELBOARDS	+72" TO TOP OR PER NEC 404.8
RESIDENTIAL PANEL	+48" TO HIGHEST OPERABLE CONTROL
CONTROL PANELS	+72" TO TOP
NOTES:	
1. MEASUREMENTS ARE TYPICAL UNO ON PLANS	
2. MEASUREMENTS ARE TO CENTER OF BOX UNO	
3. COMPLY WITH ALL ADA ACCESSIBILITY GUIDELINES	

EQUIPMENT SYMBOLS LEGEND	
	UTILITY METER
	EQUIPMENT CABINET AS NOTED
	ELECTRIC WALL HEATER
	BRANCH PANEL RECESSED
	BRANCH PANEL SURFACE
	TRANSFORMER
	EQUIPMENT ENCLOSURE, SEE PLAN NOTES AND NAMING CONVENTIONS FOR DESCRIPTION

GENERAL PROJECT NOTES	
1.	COMPLETED INSTALLATION SHALL COMPLY WITH NEC AND ALL LOCAL LAWS, ORDINANCES, AND REGULATIONS.
2.	PLANS ARE DIAGRAMMATIC IN NATURE TO COMMUNICATE SCOPE OF WORK AND GENERAL INTENT. CONTRACTOR SHALL PROVIDE ALL FITTINGS, BOXES, AND APURTENANCES NECESSARY FOR A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.
3.	EQUIPMENT FOR OTHER DISCIPLINES MAY BE SHOWN FOR REFERENCE ONLY. REFER TO OTHER DISCIPLINES' DRAWINGS FOR MORE DETAIL REGARDING EQUIPMENT SPECIFICATIONS AND INFORMATION.
4.	PLANS SHALL GOVERN IN MATTERS OF QUANTITY. SPECIFICATIONS SHALL GOVERN IN MATTERS OF QUALITY. IN CASE OF DISCREPANCY BETWEEN DRAWINGS AND SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN. PLANS ARE TO BE TIED TO SPECIFICATIONS FOR A COMPLETE DESIGN PACKAGE.
5.	ANYTHING MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, SHALL BE OF LIKE EFFECT AS IF SHOWN OR MENTIONED IN BOTH.
6.	WIRE SIZE AND QUANTITIES ARE NOT GENERALLY INDICATED ON PLANS. FOR A TYPICAL 20A/1P CIRCUIT BREAKER, PROVIDE (3) #12 CU CONDUCTORS (PHASE, NEUTRAL, GROUND). FOR A TYPICAL 20A/2P CIRCUIT BREAKER, PROVIDE (3) #12 CU CONDUCTORS (PHASE, PHASE, GROUND). FOR A TYPICAL 20A/3P CIRCUIT BREAKER, PROVIDE (4) #12 CU CONDUCTORS (THREE PHASES PLUS GROUND).
7.	TO COMPENSATE FOR VOLTAGE DROP, ON 20A, 120V CIRCUITS; OVER 100 FEET, PROVIDE #10 AWG, OVER 150 FEET, PROVIDE #8 AWG. ON 20A, 277V CIRCUITS; OVER 250 FEET, PROVIDE #10 AWG.
8.	CIRCUIT NUMBERS ARE GENERALLY INDICATED AS XX-##, WHERE (XX) INDICATES PANEL NAME AND (##) INDICATES THE CIRCUIT NUMBER. IN SOME CASES THE PANEL MAY BE COMMON TO A LARGE AREA, AND THE CIRCUIT NUMBER ONLY MAY BE CALLED OUT ON THE PLANS.
9.	MAINTAIN AT LEAST 12" SEPARATION BETWEEN POWER AND COMMUNICATIONS WIRING ROUTED PARALLEL. SMALLER SEPARATION MAY BE ALLOWED WHEN CROSSING.
10.	PROVIDE FIRE STOPPING FOR ALL PENETRATIONS OF FIRE RATED ASSEMBLIES. FIRE PROOFING MUST BE EQUIVALENT OR HIGHER TO THAT OF THE PENETRATED ASSEMBLY.
11.	MAINTAIN 24" SEPARATION BETWEEN DEVICES IN FIRE-RATED WALLS. PROVIDE FIRE-RATED BOXES OR "PUTTY PADS" AS REQUIRED TO MAINTAIN FIRE RATING.
12.	ELECTRICAL EQUIPMENT IS DESIGNED BASED ON A SPECIFIC MANUFACTURER. VERIFY FINAL CLEARANCES AND SPACE REQUIREMENTS WITH EQUIPMENT SUBMITTALS. THE CONTRACTOR IS RESPONSIBLE FOR ANY REDESIGN OR RELOCATION OF EQUIPMENT IF APPROVED EQUIPMENT DOES NOT MATCH BASIS OF DESIGN.
13.	PROVIDE 4" HIGH CONCRETE "HOUSEKEEPING PADS" FOR FREE STANDING AND FLOOR MOUNTED ELECTRICAL EQUIPMENT.
14.	ALL CONDUIT ROUTING SHALL FOLLOW BUILDING LINES WHERE POSSIBLE. COORDINATE ROUTING WITH ARCHITECTURAL ELEMENTS. ALL ROUTING OF EXPOSED CONDUITS SHALL BE APPROVED BY THE OWNER.
15.	ALL LIFE SAFETY WIRING SHALL BE READILY IDENTIFIED AS SUCH AND SHALL BE ROUTED ENTIRELY INDEPENDENTLY OF NORMAL WIRING.
16.	LIGHTING CONTROL: PLANS ARE DIAGRAMMATIC TO SHOW GENERAL INTENT. ALL LIGHTING CONTROL DEVICES MAY NOT BE SHOWN ON THE PLANS. REFER TO LIGHTING CONTROL NARRATIVE FOR DETAILED INFORMATION REGARDING FUNCTIONALITY.
17.	COORDINATE UNDERGROUND CONDUIT ROUTING WITH CIVIL AND STRUCTURAL PLANS.
18.	CONSULT STRUCTURAL ENGINEER OF RECORD FOR ALL STRUCTURAL PENETRATIONS.
* NOTE *	
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.	

WIRING METHODS	
1.	WHERE USED, THE WORD "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR ITS INTENDED USE.
2.	PROVIDE COPPER WIRING IN CONDUIT UNO. ALUMINUM WIRING IS ALLOWED FOR FEEDERS OVER 100A RATING, REFER TO FEEDER SCHEDULE. CONDUCTOR MINIMUM SIZE IS 12 AWG UNO.
3.	PROVIDE EMT CONDUIT ABOVEGROUND. PROVIDE RIGID PVC CONDUIT BELOW GRADE OR WHERE ENCASED IN CONCRETE.
4.	TYPE MC CABLE IS ALLOWED FOR BRANCH CIRCUITS WHERE CONCEALED ABOVE ACCESSIBLE CEILINGS AND IN HOLLOW STUD WALLS.
5.	PROVIDE WEATHERPROOF RACEWAY AND FITTINGS IN EXTERIOR LOCATIONS.
6.	PROVIDE FLEXIBLE CONDUIT WHIPS FOR CONNECTIONS TO MOTORIZED EQUIPMENT.
7.	PROVIDE METALLIC BOXES.
8.	PROVIDE SEISMIC RESTRAINT COMPONENT DESIGN AND INSTALLATION FOR THE ELECTRICAL SYSTEM, AS REQUIRED BY THE AHJ.
9.	ALL LUMINAIRES ARE TO BE SUPPORTED BY THE BUILDING STRUCTURE.
10.	PROVIDE PERMANENT IDENTIFICATION NAMEPLATE LABELS FOR ALL ELECTRICAL SWITCHBOARDS, PANELBOARDS, AND ENCLOSED SWITCHES TO IDENTIFY ITS DESIGNATION OR THE EQUIPMENT SERVED. PROVIDE ALL LABELS AND PLACARDS AS REQUIRED BY NEC AND THE SERVING UTILITY.
11.	WIRING DEVICE COLOR: PROVIDE WHITE DEVICES UNO.
12.	DEVICE WALL PLATES: FOR BACK OF HOUSE MECHANICAL, ELECTRICAL, AND TRASH ROOMS, PROVIDE GALVANIZED STEEL. FOR ALL OTHER AREAS, PROVIDE WHITE THERMOPLASTIC.

ELECTRICAL SHEET LIST	
E001	COVER SHEET
E100	SITE PLAN
E201	BASEMENT PLAN
E601	ONE-LINE DIAGRAM
E701	PANEL SCHEDULES



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Project No: 23196



10/22/2025

CAMAS CITY HALL GENERATOR

616 NE 4TH AVE,
CAMAS, WA 98607

Revisions:

100%
CONSTRUCTION
DOCUMENTS

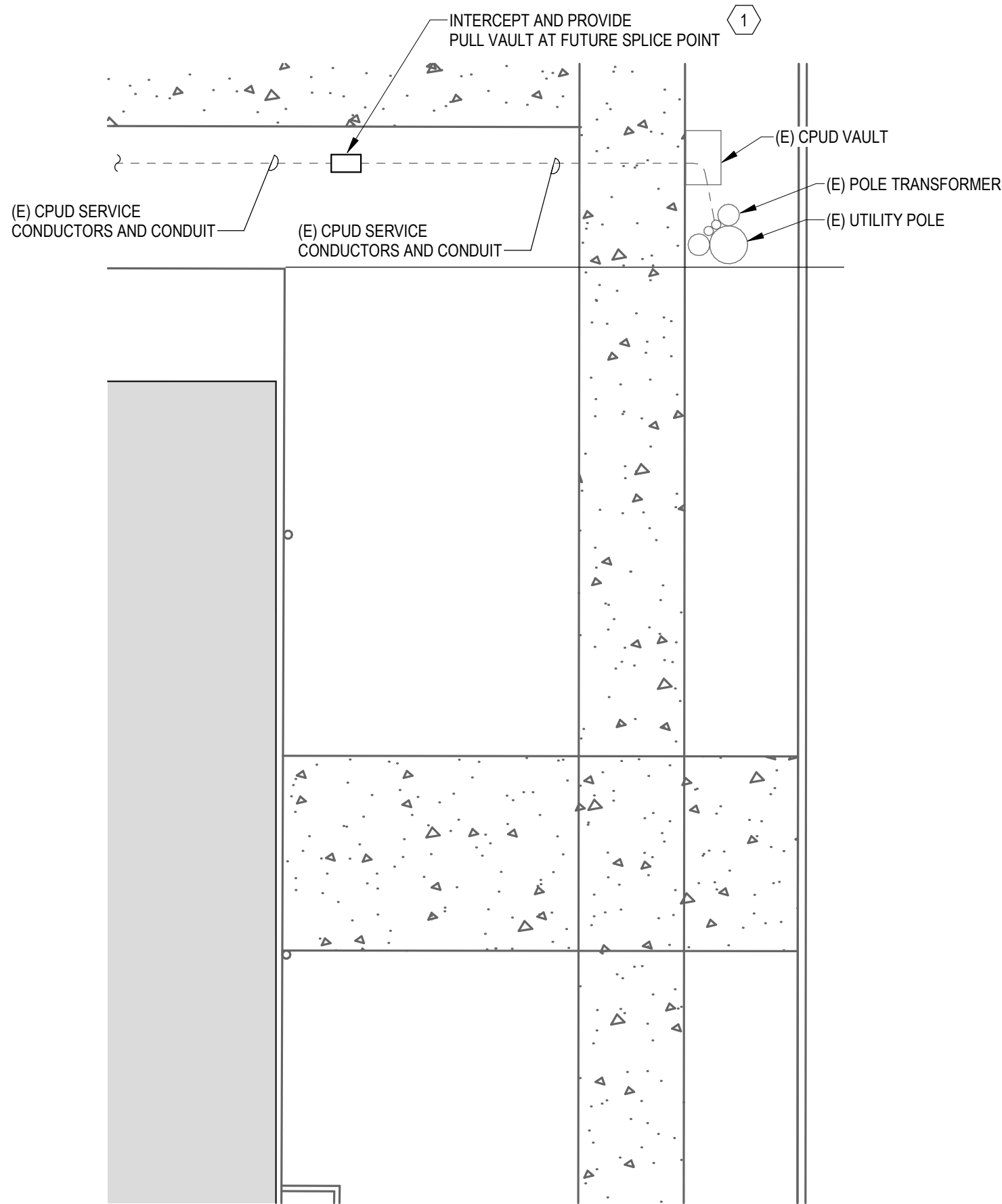
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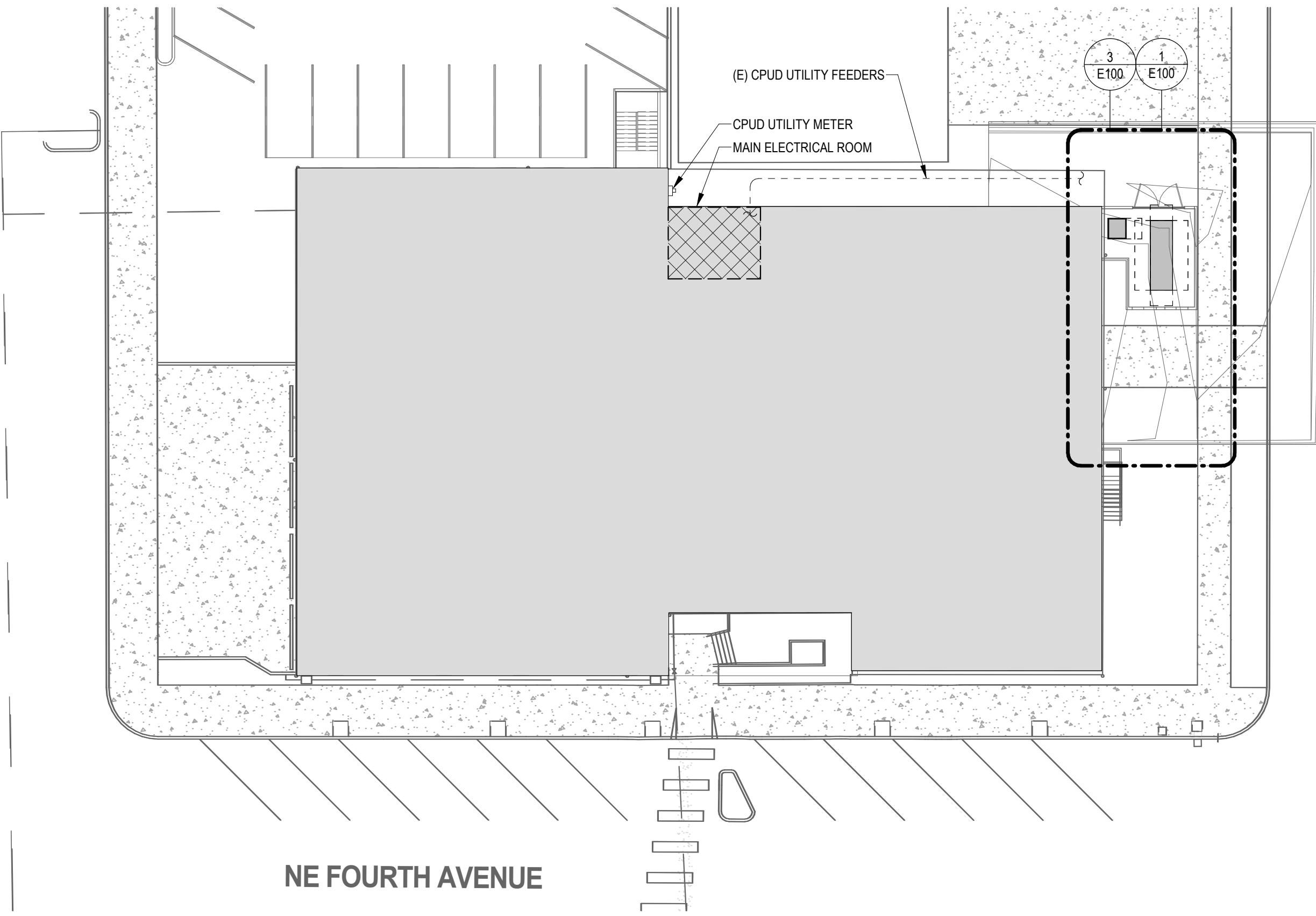
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ELECTRICAL
COVER SHEET

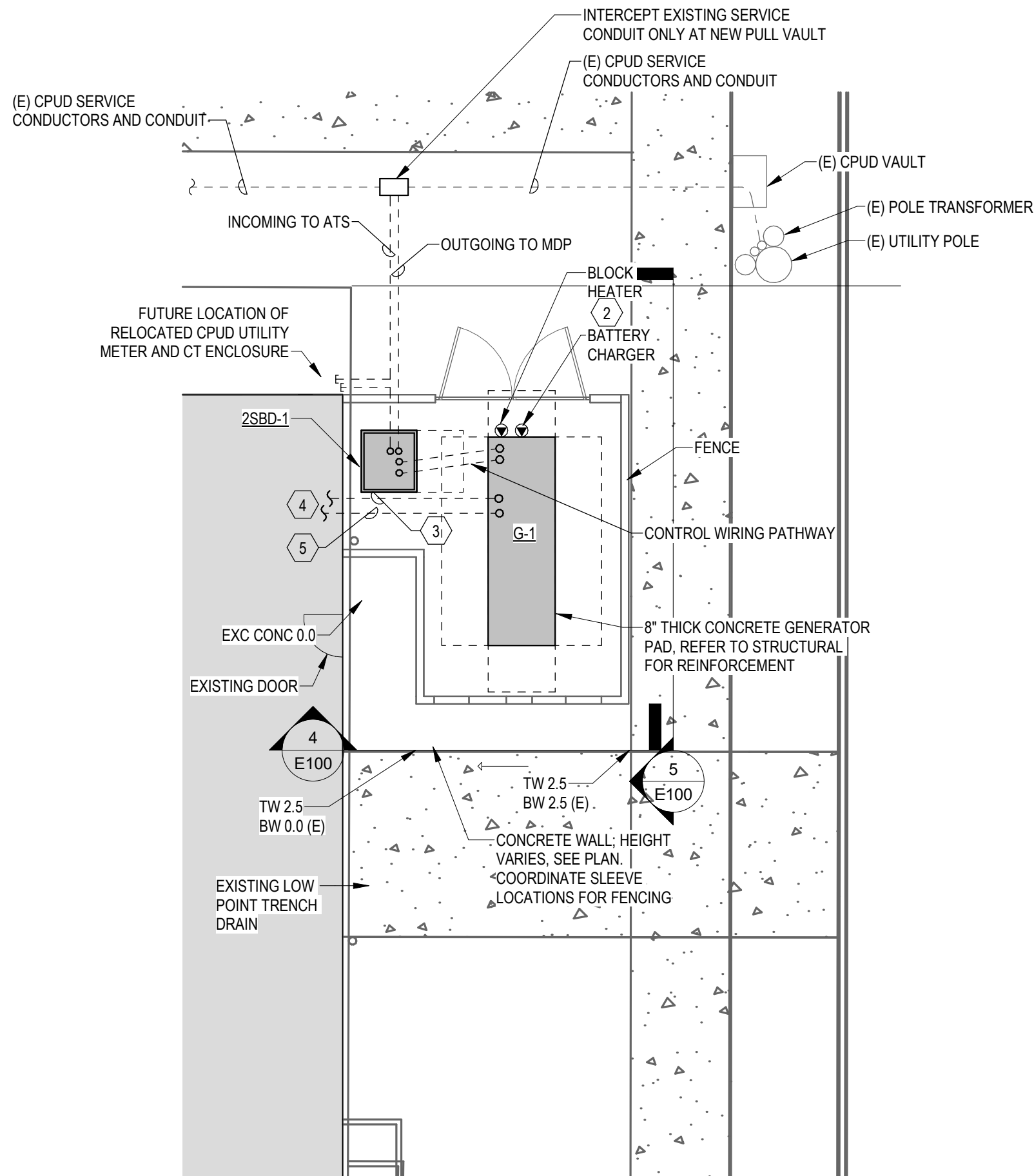
E001



1 ENLARGED - SITE PLAN - ELECTRICAL - DEMOLITION
SCALE: 1/8" = 1'-0"



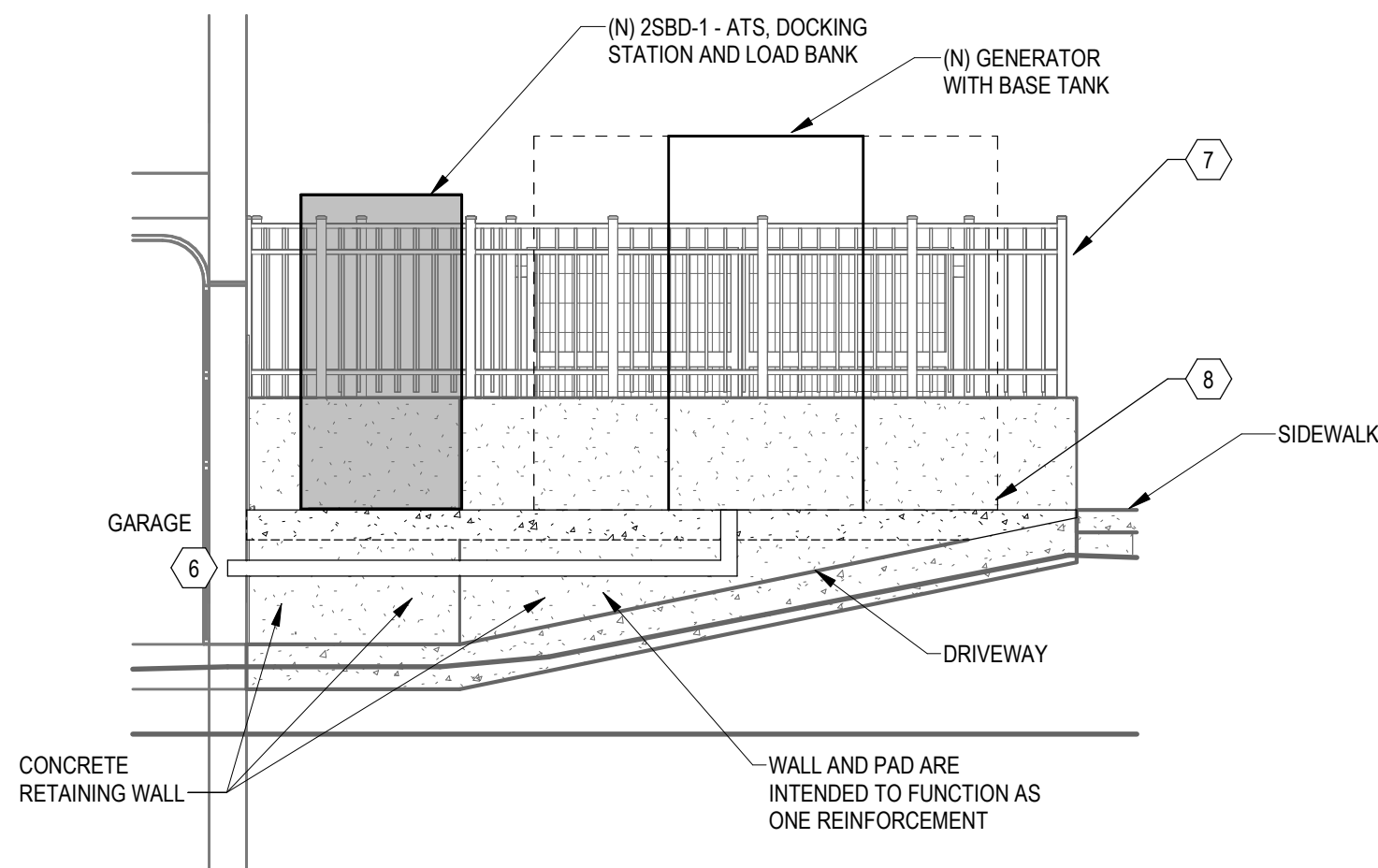
2 OVERALL SITE PLAN - ELECTRICAL
SCALE: 1" = 20'-0"



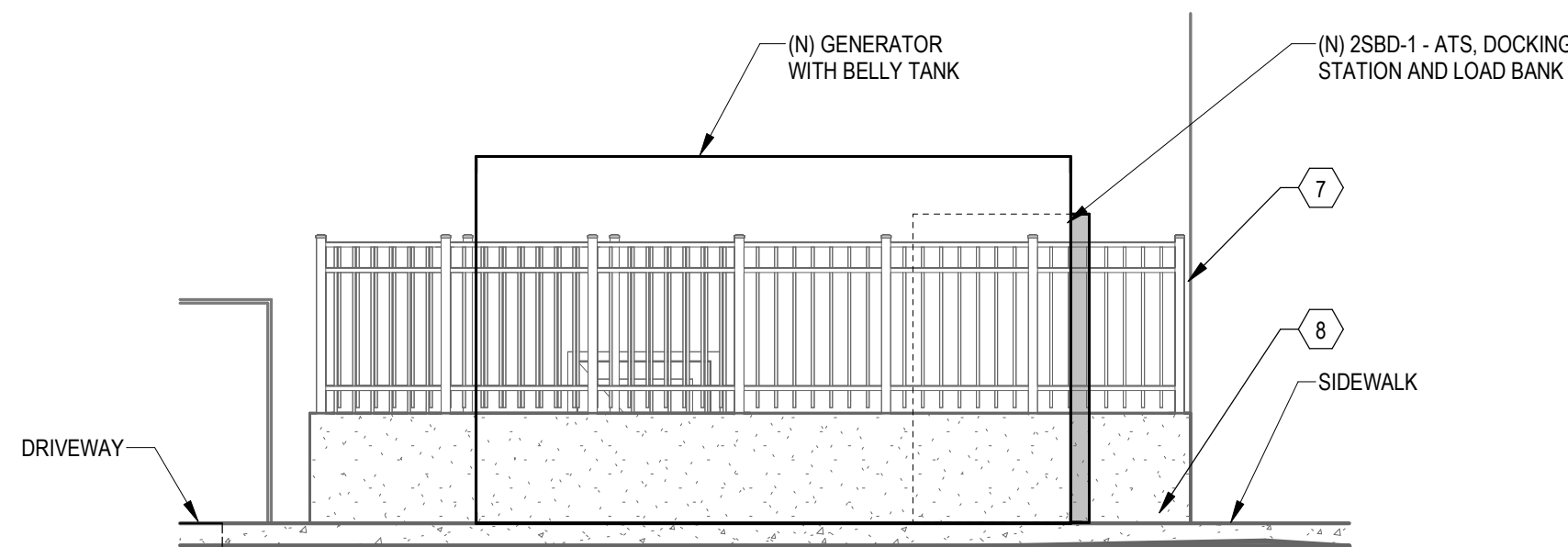
3 ENLARGED - SITE PLAN - ELECTRICAL - NEW
SCALE: 1/8" = 1'-0"

GENERAL CIVIL SITE NOTES:

- NOTIFY CITY INSPECTOR 24 HOURS PRIOR TO CONCRETE POUR FOR APPROVAL OF FORMS.
- SUBGRADE SHALL BE SHAPED AND COMPACTED TO A FIRM EVEN SURFACE.
- ALL SOFT AND YIELDING MATERIAL SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIAL.
- CONCRETE SHALL BE AIR ENTRAINED CONCRETE CLASS 4000.
- CONCRETE SURFACE SHALL BE TROWELED SMOOTH AND HAIR BROOMED.
- INSTALL ANCHORS FOR GENERATOR ATTACHMENT PER MANUFACTURERS RECOMMENDATIONS.



4 GENERATOR SECTION - NORTH
SCALE: 1/4" = 1'-0"



5 GENERATOR SECTION - EAST
SCALE: 1/4" = 1'-0"

GENERAL SITE NOTES:

- ALL 20A CIRCUITS ON SITE TO BE #10 CU MINIMUM UNLESS NOTED OTHERWISE.
- ALL UNDERGROUND CONDUITS TO BE 1" MINIMUM UNLESS NOTED OTHERWISE.
- CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES PRESENT INCLUDING BUT NOT LIMITED TO INTERNET SERVICE AND GAS LINES.
- CONTRACTOR TO FINALIZE EXACT LOCATION OF GENERATOR WITH CITY OF CAMAS AND ENGINEERING TEAM PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY NEW SECURITY FENCE PLAN WITH CITY OF CAMAS PRIOR TO CONSTRUCTION. REFER TO CITY OF CAMAS CIVIL DRAWINGS FOR EXACT FENCE REQUIREMENTS.
- REFER TO ONELINE ON SHEET E601 FOR ADDITIONAL INFORMATION.
- CLARK PUBLIC UTILITIES (CPUD) CONTACT:
ALEKSEY SHKURATKOV
ASHKURATKOV@CLARKPUD.COM
360-992-8593
- BASIS OF DESIGN FOR GENERATOR: MTU 6R0120 DS200.
DIMENSIONS (L X W X H): 101.6" X 44.1" X 56"
*NOT INCLUDING SOUND ATTENUATED ENCLOSURE AND BASE TANK.
- BASIS OF DESIGN FOR ATS: LOAD BANK AND TEMPORARY GENERATOR CONNECTION: TRYSTAR TATS-3.
DIMENSIONS (L X W X H): 48" X 19" X 60"
SUBMIT SHOP DRAWINGS FOR TATS-3 TO ENGINEER PRIOR TO PROCUREMENT.
- OWNER HAS GENERATOR AND 2SBD-1 BANK EQUIPMENT IN STORAGE AT PACIFIC POWER WHEN INSTALLATION IS READY.
- PACIFIC POWER CONTACT:
DAN MOLYNEUX
DMOLYNEUX@PACIFICPOWERGROUP.COM
206-348-6538

KEYNOTES

- CONTRACTOR TO COORDINATE ALL WORK WITH SERVICE CONDUCTORS AND CONDUIT WITH CPUD PRIOR TO CONSTRUCTION.
- FIELD VERIFY CIRCUIT AVAILABILITY PANEL A CIRCUIT 28 AND 38. ROUTE IN SLAB IN NEW 1" CONDUIT PARALLEL TO GEN FEEDER AND START/STOP SIGNAL CONDUIT.
- CONDUIT ROUTED IN PVC IN NEW CONCRETE SLAB.
- SEE E201 FOR CONTINUATION OF CONDUITS INSIDE PARKING GARAGE.
- TEMPORARY START/STOP SIGNAL CONDUIT ROUTED IN PVC IN NEW CONCRETE SLAB AND ADJACENT TO NEW POWER CONDUIT FROM (E) ATS.
- CONDUIT FOR NEW GENERATOR FEED, GENERATOR ANCILLARY CIRCUITS, AND START/STOP SIGNAL.
- SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION ABOUT CHAIN LINK FENCE.
- SEE STRUCTURAL FOR ADDITIONAL INFORMATION ABOUT GENERATOR YARD CONCRETE PAD.



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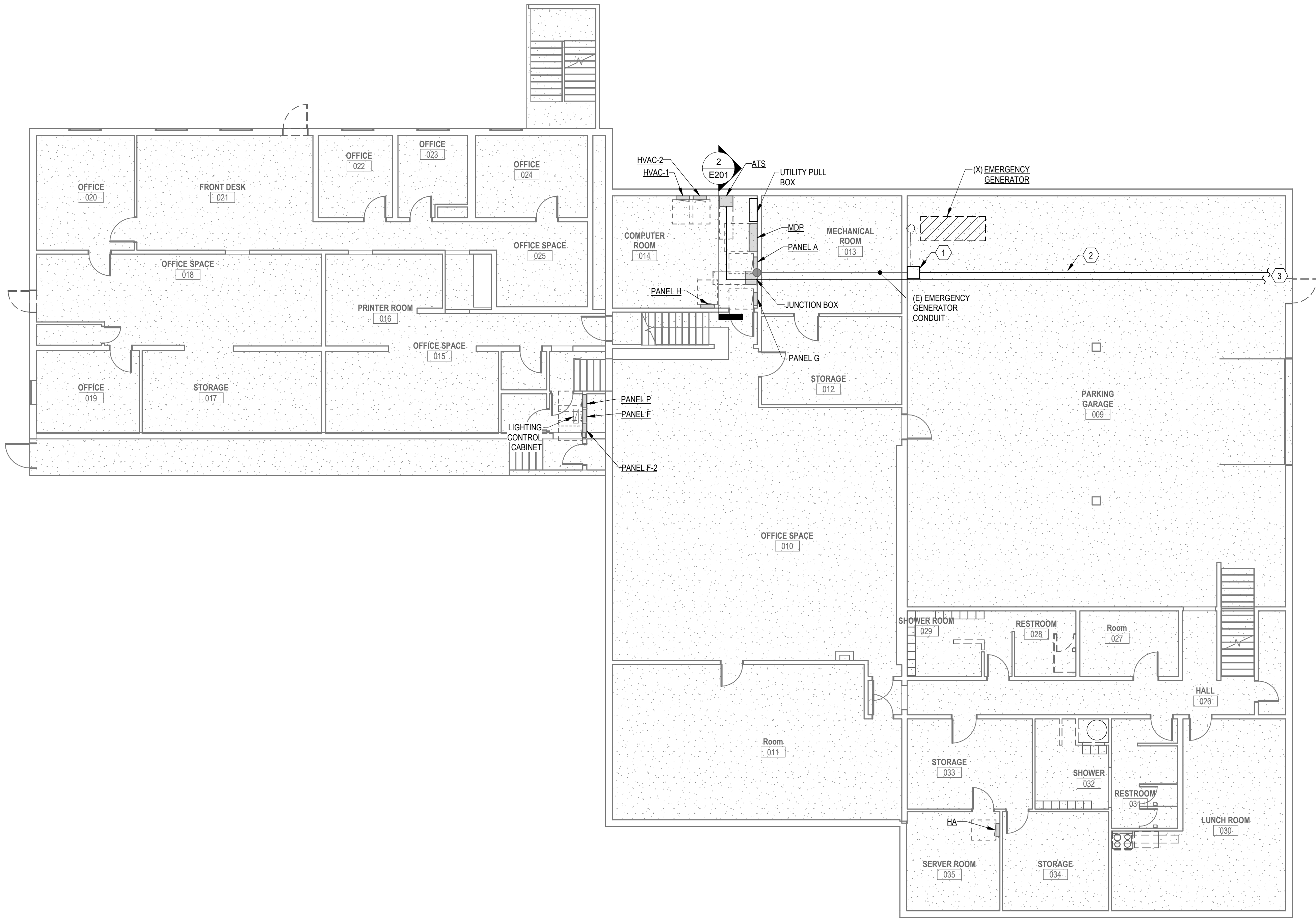
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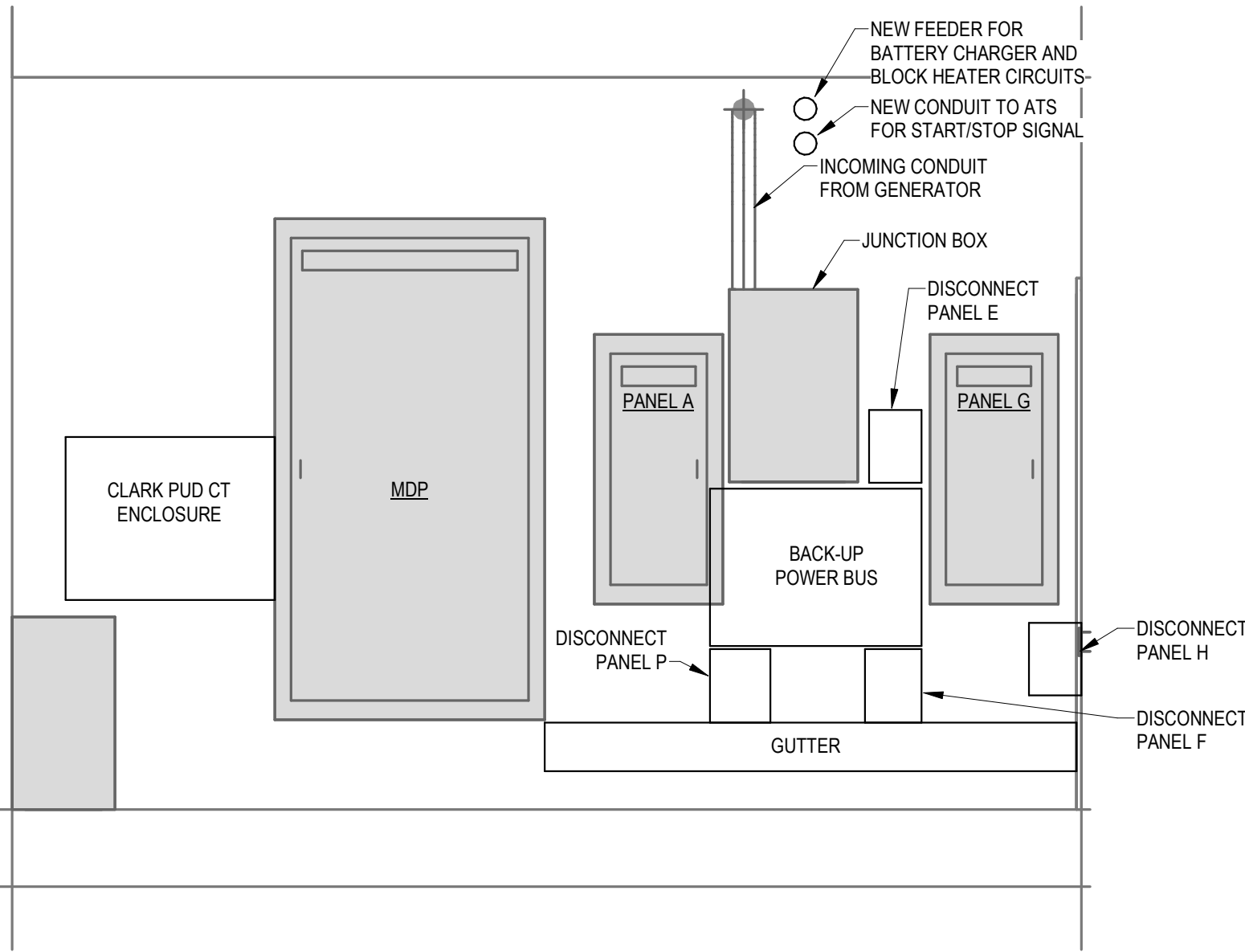
ELECTRICAL
SITE PLAN



E100



1 BASEMENT PLAN - ELECTRICAL - DEMOLITION
SCALE: 1/8" = 1'-0"



2 MAIN ELECTRICAL ROOM - WEST WALL - DEMOLITION
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

- A. EXISTING CONDITIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS THAT MAY AFFECT CONSTRUCTION.
- B. EQUIPMENT SHOWN AS EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

KEYNOTES

- 1 EXISTING JUNCTION BOX MOUNTED ON WALL. ROUTE NEW GENERATOR FEEDER TO THIS JUNCTION BOX. UTILIZE THE REMAINING EXISTING PATHWAY FROM THIS BOX TO THE ATS IN THE ELECTRICAL ROOM.
- 2 (2) 1" EMT CONDUITS, (1) FOR GENERATOR ANCILLARY CIRCUITS AND (1) FOR ATS START/STOP SIGNAL.
- 3 TRANSITION FROM EMT TO PVC FOR IN-SLAB ROUTE OF NEW CONDUIT AT EXTERIOR BELOW GRADE WALL. REFER TO E100 FOR CONTINUATION OF CONDUIT TO GENERATOR.



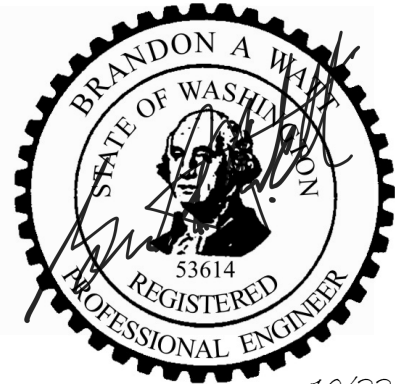
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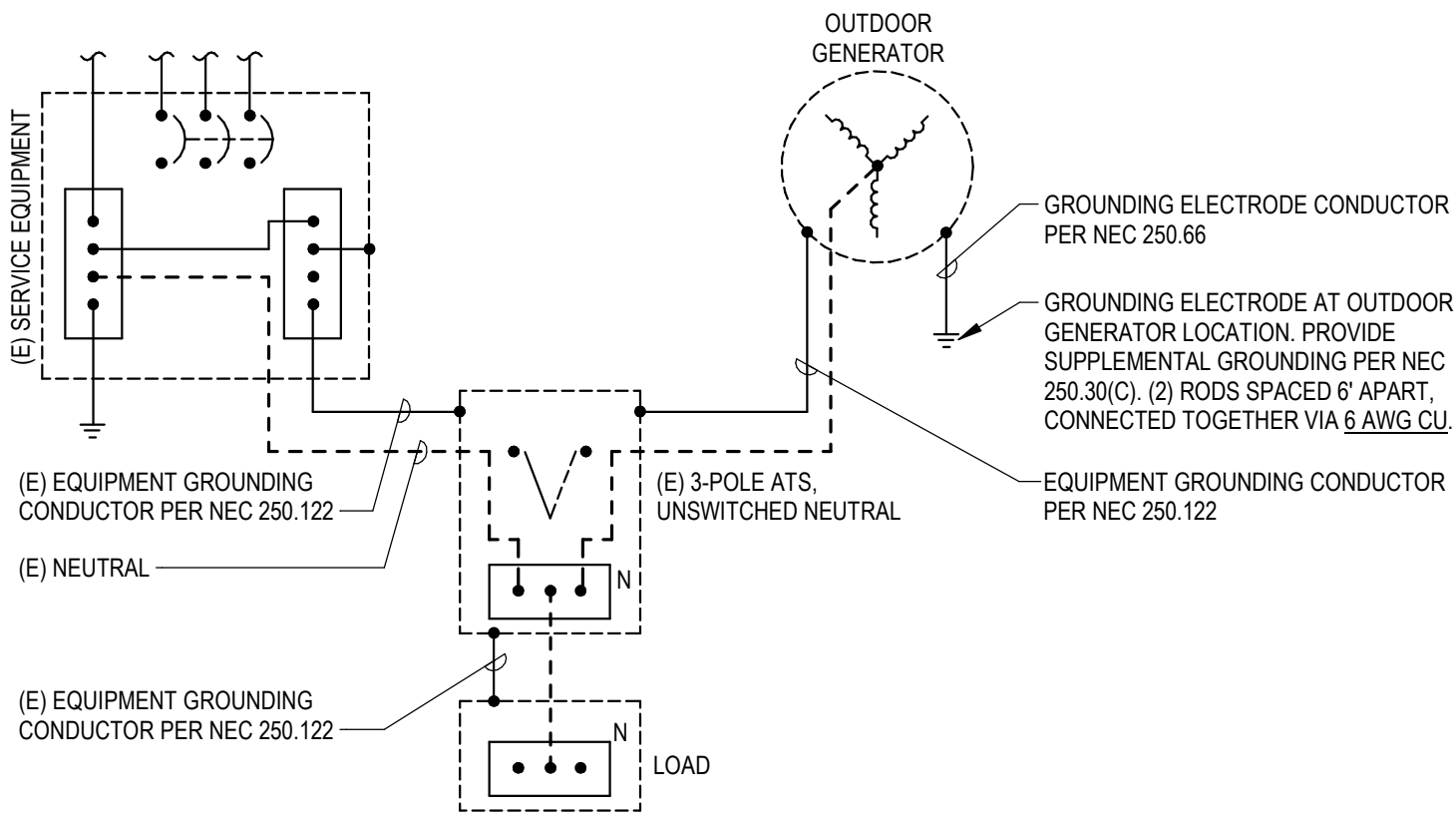
ELECTRICAL
BASEMENT PLAN

E201

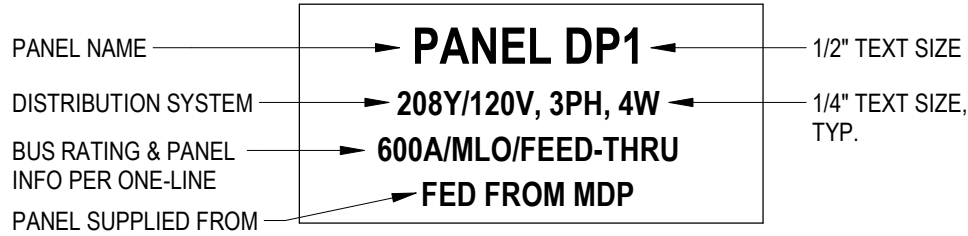


FEEDER SCHEDULE (CU & AL)						
FEEDER AMPACITY	# OF SETS	PHASE AND NEUTRAL CONDUCTORS		GROUND		RACEWAY
		CONDUCTORS	MAT.	CONDUCTOR	MAT.	
20	1	#12	CU	#12	CU	3/4"
30	1	#10	CU	#10	CU	3/4"
40	1	#8	CU	#10	CU	3/4"
50	1	#6	CU	#10	CU	1"
60	1	#4	CU	#10	CU	1-1/4"
70	1	#4	CU	#8	CU	1-1/4"
80	1	#3	CU	#8	CU	1-1/4"
90	1	#2	CU	#8	CU	1-1/2"
100	1	#1	CU	#8	CU	1-1/2"
110	1	#1/0	AL	#6	CU	2"
125	1	#2/0	AL	#6	CU	2"
150	1	#3/0	AL	#6	CU	2"
175	1	#4/0	AL	#6	CU	3"
200	1	250 KCM	AL	#6	CU	3"
225	1	300 KCM	AL	#4	CU	3"
250	1	350 KCM	AL	#4	CU	3"
300	1	500 KCM	AL	#4	CU	4"
350	2	#4/0	AL	#3	CU	3"
400	2	250 KCM	AL	#3	CU	3"
450	2	300 KCM	AL	#2	CU	3"
500	2	350 KCM	AL	#2	CU	3"
600	2	500 KCM	AL	#1	CU	4"
800	3	400 KCM	AL	#1/0	CU	3"
1000	4	350 KCM	AL	#2/0	CU	3"
1200	4	500 KCM	AL	#3/0	CU	4"
1600	6	400 KCM	AL	#4/0	CU	4"
2000	8	350 KCM	AL	250 KCM	CU	4"
2500	10	350 KCM	AL	350 KCM	CU	4"
3000	10	500 KCM	AL	400 KCM	CU	4"
4000	12	600 KCM	AL	500 KCM	CU	4"

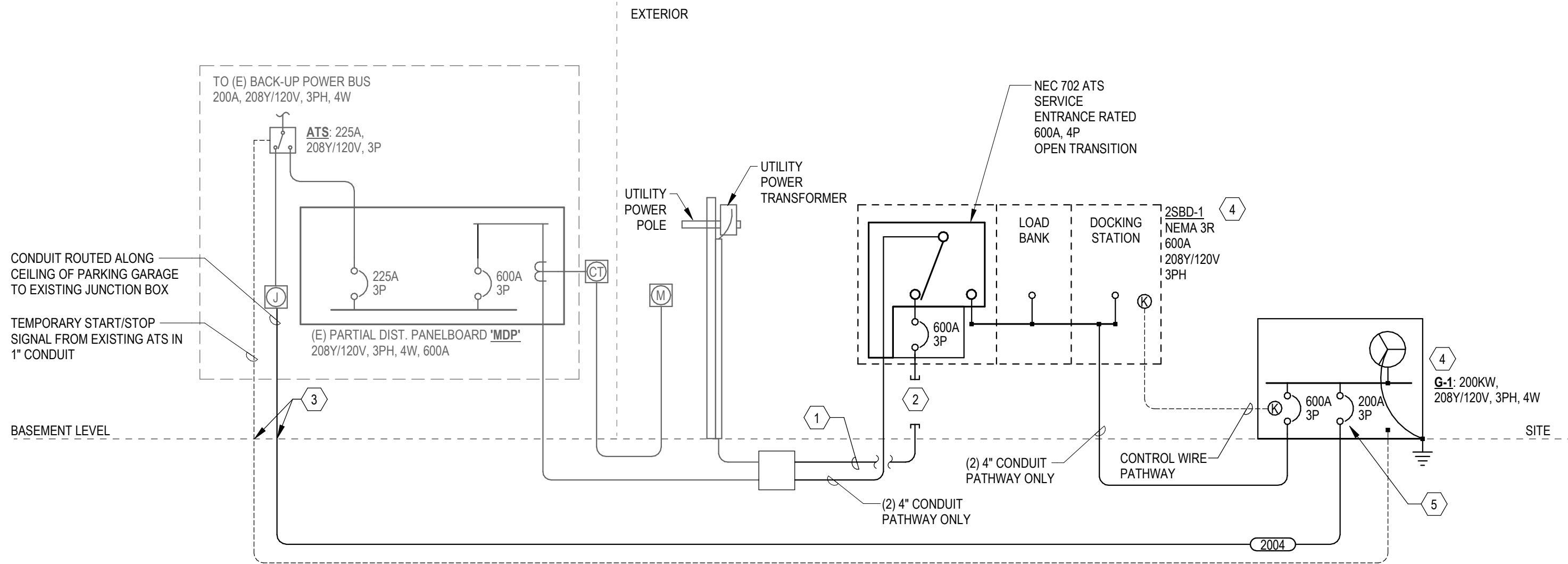
NOTE: PROVIDE GROUND CONDUCTOR WITH ALL FEEDERS EXCEPT SERVICE ENTRANCE CONDUCTORS.
FEEDER SCHEDULE KEY:
(YYYX) YYY = FEEDER AMPACITY
= PROVIDE QUANTITY OF CURRENT CARRYING CONDUCTORS
X* = REFER TO TRANSFORMER SCHEDULE FOR GEC AND BONDING.



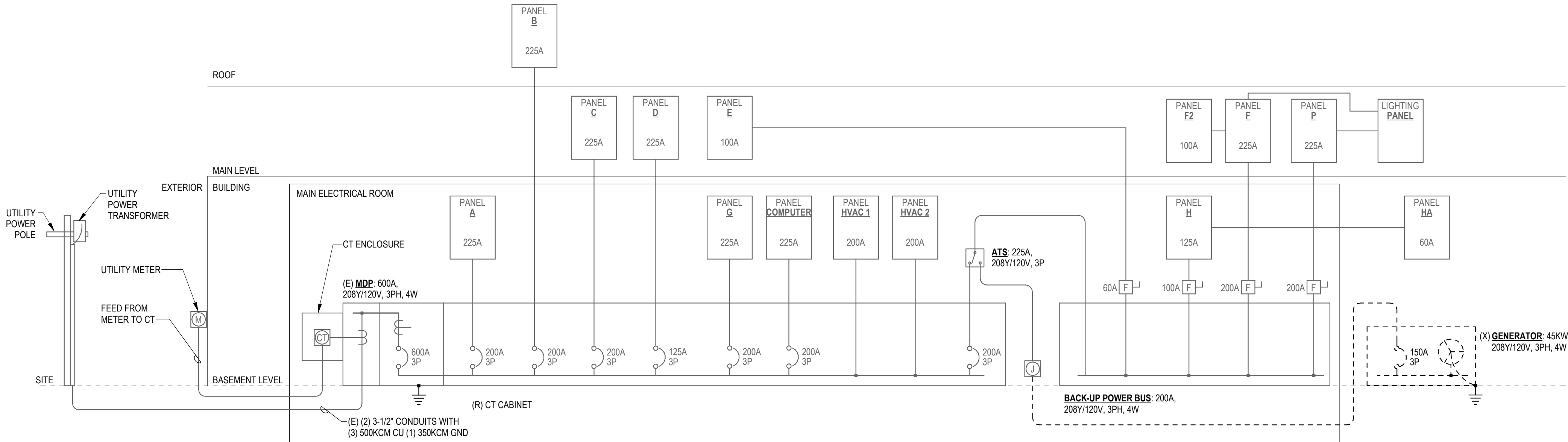
3 GENERATOR GROUND 3-POLE TRANSFER SWITCH
SCALE: 12" = 1'-0"



4 EQUIPMENT IDENTIFICATION NAMEPLATE DETAIL
NOT TO SCALE



2 ONE-LINE DIAGRAM - ELECTRICAL (NEW)
SCALE: 12" = 1'-0"



1 ONE-LINE DIAGRAM - ELECTRICAL (EXISTING)
NOT TO SCALE



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ELECTRICAL
ONE-LINE DIAGRAM

E601

PANEL A										VOLTAGE: 208Y/120		AIC RATING:		NEMA RATING: NEMA-1		LOCATION: COMPUTER ROOM...					
										BUS RATING: 225 A		INTEGRAL SPD: NO		MOUNTING: SURFACE		SUPPLY FROM: MDP					
										MAINS: MLO		FEED-THRU LUGS: NO									
CKT	TRIP	POLE	DESCRIPTION	TYPE	A	B	C	TYPE	DESCRIPTION	POLE	TRIP	CKT									
1	20 A	1	(N) LIGHTING LOAD	L	838	956		L	(N) LIGHTING LOAD	1	20 A	2									
3	20 A	1	(N) LIGHTING LOAD	L		934	818	L	(N) LIGHTING LOAD	1	20 A	4									
5	20 A	1	(N) LIGHTING LOAD	L			863	769	L	(N) LIGHTING LOAD	1	20 A	6								
7	20 A	1	SPARE	--	0	0		--	SPARE	1	20 A	8									
9	20 A	1	SPARE	--		0	0	--	SPARE	1	20 A	10									
11	20 A	1	SPARE	--			0	0	--	SPARE	1	20 A	12								
13	20 A	1	SPARE	--	0	0		--	SPARE	1	20 A	14									
15	20 A	1	SPARE	--			0	0	--	EXISTING LOAD	1	20 A	16								
17	20 A	1	EXISTING LOAD	--				0	0	--	EXISTING LOAD	1	20 A	18							
19	20 A	1	EXISTING LOAD	--	0	0		--	EXISTING LOAD	1	20 A	20									
21	20 A	1	BLOCK HEATER	--			0	0	--	EXISTING LOAD	1	20 A	22								
23	20 A	1	EXISTING LOAD	--				0	0	--	EXISTING LOAD	1	20 A	24							
25	20 A	1	EXISTING LOAD	--	0	0		--	EXISTING LOAD	1	20 A	26									
27	20 A	1	EXISTING LOAD	--			0	0	--	EXISTING LOAD	1	20 A	28								
29	20 A	1	EXISTING LOAD	--				0	0	--	EXISTING LOAD	1	20 A	30							
31	20 A	1	EXISTING LOAD	--	0	0		--	EXISTING LOAD	1	20 A	32									
33	20 A	1	EXISTING LOAD	--			0	0	--	EXISTING LOAD	1	20 A	34								
35	20 A	1	EXISTING LOAD	--				0	0	--	EXISTING LOAD	1	20 A	36							
37	20 A	1	EXISTING LOAD	--	0	0		--	BATTERY CHARGER	1	20 A	38									
39	20 A	1	EXISTING LOAD	--			0	0	--	EXISTING LOAD	1	20 A	40								
41	20 A	1	EXISTING LOAD	--				0	0	--	EXISTING LOAD	1	20 A	42							
					1794 VA	1752 VA	1632 VA														
					15 A	15 A	14 A														
BREAKER KEY			LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS										
(A) = AFCI			C = CONTINUOUS GENERAL LOAD		0 VA		0.00%		0 VA												
(A/G) = AFCI/GFCI			D = DWELLING UNIT		0 VA		0.00%		0 VA												
(G) = GFCI			E = ELECTRIC HEAT		0 VA		0.00%		0 VA												
(L) = LOCKABLE			G = GENERAL NON-CONTINUOUS LOAD		0 VA		0.00%		0 VA												
(N) = SWITCHED NEUTRAL			H = HVAC EQUIPMENT		0 VA		0.00%		0 VA												
(S) = SHUNT TRIP			HM = HOTEL/MOTEL		0 VA		0.00%		0 VA												
(GFP) = GROUND FAULT PROTECTED			K = KITCHEN EQUIPMENT		0 VA		0.00%		0 VA												
			L = LIGHTING		5178 VA		125.00%		6472 VA		TOTAL CONNECTED LOAD: 5178 VA										
			LM = LARGEST MOTOR		0 VA		0.00%		0 VA		TOTAL DEMAND LOAD: 6472 VA										
			M = MOTOR		0 VA		0.00%		0 VA		TOTAL DEMAND AMPS: 18 A										
			R = RECEPTACLE		0 VA		0.00%		0 VA												

KEYNOTES

- 1 FIELD VERIFY EXISTING CIRCUITS ARE SPARE AND CAN BE USED FOR THE NEW GENERATOR LOADS. IF IN USE, LOCATE AVAILABLE SPARE CIRCUITS IN PANEL OR NEARBY PANEL FOR USE AS INDICATED.



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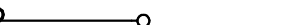










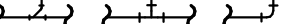


ELECTRICAL










PANEL SCHEDULES

E701

ABBREVIATIONS			
Ø	ROUND	HWP	HEATING WATER PUMP
AC	AIR CONDITIONING UNIT	HX	HEAT EXCHANGER
ACC	AIR COOLING CONDENSER	HYD	HYDRANT
ACCU	AIR COOLING CONDENSING UNIT	ID	INDIRECT
AD	AREA DRAIN	IN	INCH
ADD	ADDENDUM	INV	INVERT
AFF	ABOVE FINISHED FLOOR	LB	POUND
AHU	AIR HANDLING UNIT	LP	LOW PRESSURE
ALT	ALTERNATE	LPG	LIQUEFIED PETROLEUM GAS
AP	ACCESS PANEL	LVR	LOUVER
ARCH	ARCHITECT/ARCHITECTURAL	MAX	MAXIMUM
AS	AIR SEPARATOR	MBH	ONE THOUSAND BTU PER HOUR
B	BOILER	MCF	ONE THOUSAND CUBIC FEET
BFF	BELOW FINISHED FLOOR	MECH	MECHANICAL
BTU	BRITISH THERMAL UNITS	MFR	MANUFACTURER
BTUH	BRITISH THERMAL UNITS PER HOUR	MIN	MINIMUM
CAP	CAPACITY	MISC	MISCELLANEOUS
CB	CATCH BASIN	MUA	MAKE-UP/AIR
CFM	CUBIC FEET PER MINUTE	NIC	NOT IN CONTRACT
CH	CHILLER	NO	NUMBER
CO	CLEAN OUT	NTS	NOT TO SCALE
CT	COOLING TOWER	O	OXYGEN
CUH	CABINET UNIT HEATER	ORD	OVERFLOW ROOF DRAIN
CW	COLD WATER	PD	PRESSURE DROP
CWP	CONDENSER WATER PUMP	PIV	POST INDICATOR VALVE
CHWP	CHILLED WATER PUMP	PRESS	PRESSURE
D	DEGREE	PRV	PRESSURE REDUCING VALVE
DB	DRY BULB	PSI	POUNDS PER SQUARE INCH
DBP	DOMESTIC WATER BOOSTER PUMP	PSIG	POUNDS PER SQUARE INCH GAUGE
DCP	DOMESTIC WATER CIRCULATING PUMP	PWR	POWER
DIA	DIAMETER	(R)	RELOCATE
DN	DOWN	RD	ROOF DRAIN
DW	DISTILLED WATER	REC	RECESSED
(E)	EXISTING	RED	REDUCER
ELEC	ELECTRICAL	RH	RELATIVE HUMIDITY
EQUIP	EQUIPMENT	RLJA	RELIEF AIR
ET	EXPANSION TANK	RM	ROOM
EWC	ELECTRIC WATER COOLER	RPM	REVOLUTIONS PER MINUTE
EWH	ELECTRIC WATER HEATER	RTU	ROOF TOP UNIT
°F	DEGREES FAHRENHEIT	RW	RAIN WATER
FCO	FLOOR CLEAN OUT	SF	SQUARE FOOT
FCU	FAN COIL UNIT	SAN	SANITARY
FD	FLOOR DRAIN	SEP	SEWAGE EJECTOR PUMP
FDV	FIRE DEPARTMENT VALVE	SF	SQUARE FOOT
FL	FLOOR	SP	STANDPIPE
FO	FUEL OIL	SP	STATIC PRESSURE
FOV	FUEL OIL VENT	SP	SUMP PUMP
FOR	FUEL OIL RETURN	STM	STEAM
FOS	FUEL OIL SUPPLY	T	THERMOSTAT
FP	FIRE PUMP	TD	TEMPERATURE DROP
FFM	FEET PER MINUTE	TDR	TRENCH DRAIN
FS	FLOOR SINK	TEMP	TEMPERATURE
FT	FOOT/FEET	TYP	TYPICAL
FU	FIXTURE UNITS	UG	UNDERGROUND
FV	FLUSH VALVE	VAC	VACUUM
GAL	GALLON	V	VENT
GC	GENERAL CONTRACTOR	VENT	VENTILATION
GI	GREASE INTERCEPTOR	VTR	VENT THROUGH ROOF
GPM	GALLONS PER MINUTE	W	WASTE
GW	GREASE WASTE	WCO	WALL CLEAN OUT
HB	HOSE BIB	WH	WALL HYDRANT
HP	HORSE POWER	WH	WATER HEATER
HRR	HEAT RECOVERY UNIT	(X)	DEMOLITION
HW	HOT WATER		

CIVIL PIPING LEGEND	
	W DOMESTIC COLD WATER
	SAN SANITARY SEWER (WASTE)
	STM STORM DRAINAGE

MISC. FITTINGS & SYMBOLS	
	PIPE CONTINUATION
	RISER
	ELBOW UP TO LEVEL ABOVE
	ELBOW UP
	ELBOW DOWN TO LEVEL BELOW
	DROP TO LOWER ELEVATION
	TEE DOWN
	DIRECTION OF FLOW
	DIRECTION OF SLOPE
	PIPE SLEEVE
	HEAT TRACE
	PIPE REDUCER
	90 DEGREE ELBOW
	45 DEGREE ELBOW
	CAP
	JOINT OR COUPLING POINT

SYMBOLS	
	KEYNOTE
	REVISION TAG
	REVISION CLOUD
	NORTH ARROW
	MATCHLINE
	POINT OF CONNECTION
	POINT OF DEMOLITION
	ITEM TO BE DEMOLISHED
	AREA NOT IN CONTRACT

PLUMBING GENERAL NOTES	
1.	THE CONTRACTOR SHALL PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED IN THESE DRAWINGS. WORK CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR COMPLETE SYSTEMS. INCLUDE ANY INCIDENTAL APPARATUS, APPLIANCES, MATERIAL LABOR AND SERVICES NECESSARY TO MAKE NEW WORK COMPLETE IN ALL RESPECTS AND FULLY READY FOR OPERATION.
2.	UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL SUBMIT TO OWNER A COMPLETE O&M MANUAL, LISTING ALL EQUIPMENT AND FIXTURES INSTALLED.
3.	FINAL PRODUCT SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE UNIFORM PLUMBING CODE AND/OR INTERNATIONAL PLUMBING CODE WITH PRIOR AHJ APPROVAL.
4.	ALL MATERIALS INSTALLED MUST HAVE PROPER LISTING REQUIRED BY APPLICABLE CODES INCLUDING BUT NOT LIMITED TO UPC/APMO, NSF UNLESS RECEIVING PRIOR APPROVAL IN WRITING FROM AUTHORITY HAVING JURISDICTION (AHJ).
5.	UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS, AND SCRAP. ALL IDENTIFIED EXISTING EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER.
6.	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT. FINAL LOCATIONS OF EQUIPMENT SHALL BE FIELD DETERMINED. ALL DISCREPANCIES IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING BEFORE SUBMISSION.
7.	EQUIPMENT FOR OTHER DISCIPLINES MAY BE SHOWN FOR REFERENCE ONLY. REFER TO OTHER DISCIPLINES' DRAWINGS FOR MORE DETAIL REGARDING EQUIPMENT SPECIFICATIONS AND INFORMATION.
8.	PLANS SHALL GOVERN IN MATTERS OF QUANTITY; SPECIFICATIONS SHALL GOVERN IN MATTERS OF QUALITY. IN CASE OF DISCREPANCY BETWEEN DRAWINGS AND SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN. PLANS ARE TO BE TIED TO SPECIFICATIONS FOR A COMPLETE DESIGN PACKAGE.
9.	ANYTHING MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, SHALL BE OF LIKE EFFECT AS IF SHOWN OR MENTIONED IN BOTH.
10.	THE CONTRACTOR SHALL BE FAMILIAR WITH ALL CONDITIONS, BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS, AS WELL AS THOSE THAT CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED IN THIS PROJECT.
11.	THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES TO ENSURE ANY CONFLICT IN LAYOUT, NEEDED SPACE, SHARED EQUIPMENT REQUIREMENTS ETC. IS ADDRESSED BEFORE INSTALLATION, SO ADJUSTMENTS CAN BE MADE, IF NECESSARY.
12.	LOCATE PIPING AND EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
13.	COORDINATE UNDERGROUND PIPE ROUTING WITH CIVIL AND STRUCTURAL PLANS.
14.	CONSULT STRUCTURAL ENGINEER OF RECORD FOR ALL STRUCTURAL PENETRATIONS.
15.	WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE DRAIN BODY BY SEALING THE DRAIN OPENING BEFORE START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
16.	PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
17.	SANITARY WASTE PIPING SHALL BE SLOPED UNIFORMLY NOT LESS THAN 1/4 INCH PER FOOT. WHERE NOTED AND DEEMED NECESSARY AND APPROVED BY AHJ AND ENGINEER OF RECORD, WASTE PIPING 4" AND LARGER, MAY BE SLOPED NOT LESS THAN 1/8 INCH PER FOOT.
18.	ALL SANITARY AND WATER PIPING UNDERGROUND SHALL BE A MINIMUM OF 12" BELOW GRADE OR FINISHED FLOOR UNLESS NOTED OTHERWISE.
19.	CLEANOUTS SHALL BE PROVIDED AS SHOWN AND WHERE REQUIRED BY CODE. INSTALL CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL WASTE PLUMBING RISERS BEFORE THE ENTRANCE TO BELOW GRADE. PROVIDE ALL SINKS AND LAVATORIES WITH SLIP JOINT TRAP FITTINGS FOR CLEANOUT.
* NOTE *	
ALL OF THE GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.	



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CAMAS CITY HALL GENERATOR
616 NE 4TH AVE,
CAMAS, WA 98607

Revisions:

100%
CONSTRUCTION
DOCUMENTS

Project No:
23196

PROJECT MANAGER:	LE
DRAWN BY:	LD
CHECKED BY:	DS

Issue Date:
10/22/2025

PLUMBING
COVER SHEET

DRAINS AND CLEANOUTS SCHEDULE				
ID	DESCRIPTION	MANUFACTURER & MODEL	TRAP PRIMER CONNECTION (Y/N)	NOTES
CTG-1	CLEANOUT TO GRADE	JAY R SMITH 4220 SERIES	-	CAST IRON BODY, TAPERED BRONZE PLUG, ADJUSTABLE SCORIATED COVER, VANDAL RESISTANT
GENERAL NOTES: A. PROVIDE TRAP PRIMER TO ALL FLOOR DRAINS. B. PROVIDE TRAP PRIMER TO ALL FLOOR SINKS NOT RECEIVING DISCHARGE FROM A LISTED PLUMBING FIXTURE. C. FLOOR SINKS SERVING FOOD SERVICE TO BE 3-INCH MINIMUM. 2-INCH FLOOR SINKS ARE ALLOWED IN CERTAIN AREAS. COORDINATE WITH FOOD SERVICE PLANS FOR SPECIFIC LOCATIONS.				

PIPE SCHEDULE							
SYSTEM	LOCATION	SPECIFICATION					
		SIZE	MATERIAL	TYPE	STANDARD	FITTINGS	JOINTS
SANITARY WASTE	BELOW GRADE	ALL	PVC 3034	PVC 3034	ASTM D3034-24E1	PVC 3034	GLUED
STORM	BELOW GRADE	ALL	PVC	PVC 3034	ASTM D3034-24E1	PVC 3034	GLUED

PLUMBING DESIGN CRITERIA (WASHINGTON)
WASTE AND VENT PIPING SYSTEM: BASIS OF DESIGN: 2021 WASHINGTON STATE PLUMBING CODE, CHAPTER 7, 'SANITARY DRAINAGE'. ALL WASTE PIPING SIZED AT 1/4"/FT. SLOPE UNLESS OTHERWISE NOTED.
ROOF DRAIN/STORM DRAIN PIPING SYSTEM: BASIS OF DESIGN: 2021 WASHINGTON STATE PLUMBING CODE, CHAPTER 11, 'STORM DRAINAGE'. STORM DRAIN PIPING SIZED AT 1/8"/FT. SLOPE UNLESS OTHERWISE NOTED AND A RAINFALL RATE OF 1.2"/HR.



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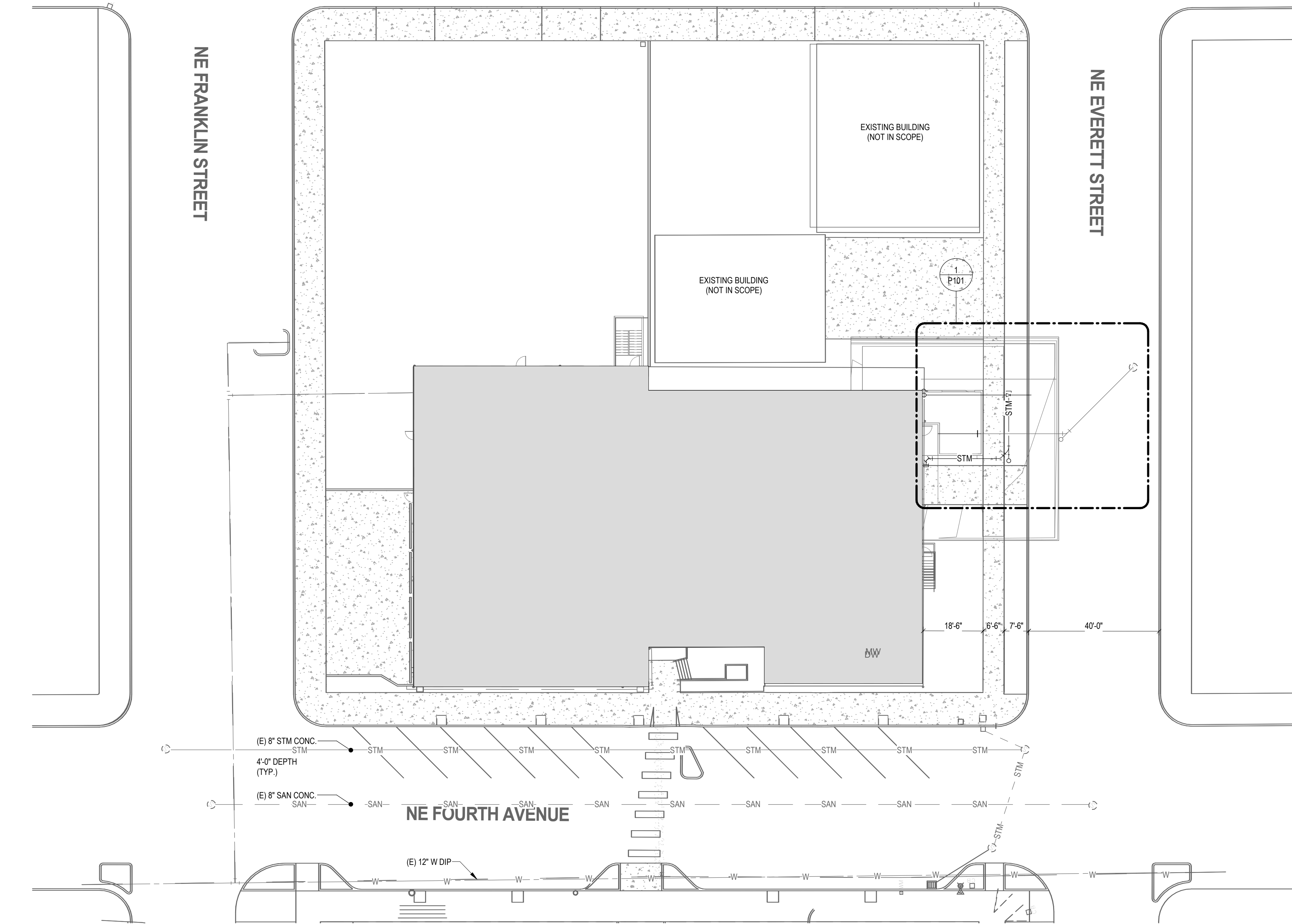
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PLUMBING
SCHEDULES

P002

P



1 SITE PLAN - PLUMBING
SCALE: 1" = 20'-0"

CIVIL PIPING LEGEND	
W	DOMESTIC COLD WATER
SAN	SANITARY SEWER (WASTE)
STM	STORM DRAINAGE

GENERAL SHEET NOTES:

- A. CONTRACTOR TO VERIFY ALL ELEVATIONS AND PIPING INVERTS PRIOR TO STARTING WORK.
- B. CONTRACTOR TO COORDINATE WITH THE CITY OF CAMAS TO OBTAIN PROPER RIGHT OF WAY PERMITS.
- C. ALL DIMENSIONS ARE TO BE VERIFIED BY CONTRACTOR PRIOR TO STARTING WORK.
- D. CONTRACTOR TO SUBMIT PLAN OF WORK FOR APPROVAL FROM CITY OF CAMAS AND ENGINEER OF RECORD FOR EXCAVATING AND PIPING INSTALLATION PRIOR TO COMMENCING WORK.
- E. CONTRACTOR TO COORDINATE WORK WITH OTHER DICIPLINES WORKING IN THIS AREA.



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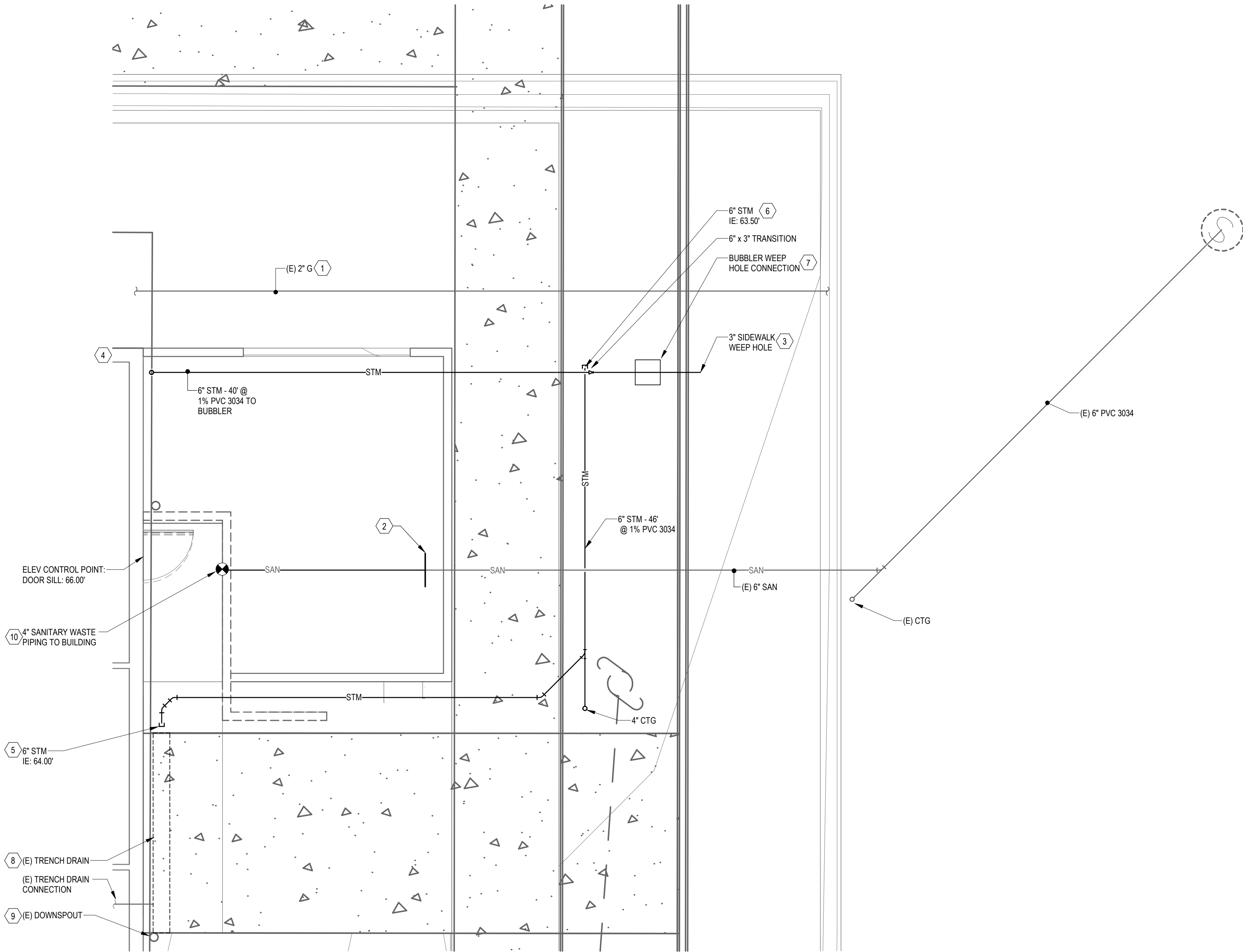
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DRAWN BY: LD
CHECKED BY: DS

Issue Date:
10/22/2025

PLUMBING
SITE PLAN



P100



1 ENLARGED SITE PLAN EAST - PLUMBING
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES:

- A. CONTRACTOR TO VERIFY ALL ELEVATIONS AND PIPING INVERTS PRIOR TO STARTING WORK.
- B. CONTRACTOR TO COORDINATE WITH THE CITY OF CAMAS TO OBTAIN PROPER RIGHT OF WAY PERMITS.
- C. ALL DIMENSIONS ARE TO BE VERIFIED BY CONTRACTOR PRIOR TO STARTING WORK.
- D. CONTRACTOR TO SUBMIT PLAN OF WORK FOR APPROVAL FROM CITY OF CAMAS AND ENGINEER OF RECORD FOR EXCAVATING AND PIPING INSTALLATION PRIOR TO COMMENCING WORK.
- E. ALL CONCRETE AND PAVEMENT TRENCH CUTS ARE TO BE FULL DEPTH.
- F. CONTRACTOR TO INSTALL STORM PIPING TO WEEP HOLES. CONFIRM PIPE ROUTING AND GRADING PRIOR TO STARTING WORK.
- G. CONTRACTOR TO BED AND BACKFILL ALL PIPING PER THE SPECIFIC REQUIREMENTS OF THE CITY OF CAMAS.
- H. ALL ELEVATIONS ARE BASED OFF THE ELEVATION CONTROL POINT LOCATED AT THE SILL PLATE FOR THE EXISTING EXTERIOR MAN DOOR TO THE GARAGE.

KEYNOTES:

1. EXISTING 2" GAS MAIN SHOWN FOR REFERENCE ONLY. NO SCOPE PERTAINING TO THE UNDERGROUND GAS MAIN SUPPLY TO THE BUILDING.
2. INDICATES ROUGHLY THE LOCATION OF THE EXISTING PIPING TRANSITION FROM PVC 3034 TO CONCRETE PIPE. WASTE PIPING TO BE REPLACED FROM: TRANSITION FROM 6" PVC 3034 TO 6" CONCRETE PIPE IN LANDSCAPING TO TRANSITION FROM 6" CONCRETE PIPE TO 4" CAST IRON PIPE AT THE EDGE OF THE BUILDING. APPROXIMATELY 20' OF PIPING AT AN IE OF APPROXIMATELY 13' BFG. CONTRACTOR TO VERIFY LOCATION, DEPTH, AND LENGTH OF THE 6" CONCRETE PIPING.
3. 3" SIDEWALK WEEP HOLE FOR DOWNSPOUT INDICATED ON BUILDING. CONTRACTOR TO VERIFY ELEVATIONS TO CONFIRM 1/8" FT PIPE GRADE CAN BE MAINTAINED ON THE DRAINAGE PIPE TO WEEP HOLE. TRACER WIRE TO BE INSTALLED WITH UNDERGROUND PIPING FOR FUTURE LOCATING. REFER TO CITY OF CAMAS DETAIL ST11/P102.
4. CONNECT DOWNSPOUT TO STORM PIPING AT 2' ABOVE FINISHED GRADE IN THIS AREA. PROVIDE CLEANOUT AT 1' ABOVE FINISHED GRADE.
5. INSTALL NEW 6" STORM PIPING FROM EXISTING TRENCH DRAIN TO STREET. HARD CAP AT EDGE OF NEW CONCRETE FOR FUTURE CONNECTION TO NEW TRENCH DRAIN. FUTURE CONNECTION AND NEW TRENCH DRAIN ARE NOT INCLUDED IN THIS SCOPE OF WORK AND WILL BE COMPLETED UNDER A FUTURE PROJECT.
6. HARD CAP NEW 6" STORM PIPING AT LOCATION INDICATED. PREPARE STORM PIPING FOR FUTURE CONNECTION TO UNDERGROUND STORM PIPING IN STREET. TRACER WIRE TO BE INSTALLED WITH UNDERGROUND PIPING FOR FUTURE LOCATING. FUTURE CONNECTION IS NOT INCLUDED IN THIS SCOPE OF WORK AND WILL BE COMPLETED UNDER A FUTURE PROJECT.
7. PROVIDE AND INSTALL BUBBLER BEFORE CURB WEEP HOLE CONNECTION. CONTRACTOR TO VERIFY PROPER DRAINAGE WILL BE MAINTAINED FROM CATCH BASIN TO DOWNSPOUT ON BUILDING.
8. EXISTING TRENCH DRAIN AND CONNECTION TO REMAIN AS IS.
9. EXISTING DOWNSPOUT TO BE HORIZONTALLY ROUTED ABOVE EXISTING GARAGE DOOR AND TERMINATED AT NEW STORM PIPING ON THE SOUTH CORNER OF THE BUILDING.
10. 6" CONCRETE PIPE TO 4" CAST IRON PIPE TRANSITION HAPPENS NEAR EDGE OF BUILDING. SANITARY PIPING IE IS ESTIMATED AT 13' BELOW PARKING GARAGE FINISH FLOOR ELEVATION.

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ELIJAH DANIEL SOLTER

STATE OF WASHINGTON

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REGISTERED

PROFESSIONAL ENGINEER

10/22/2025

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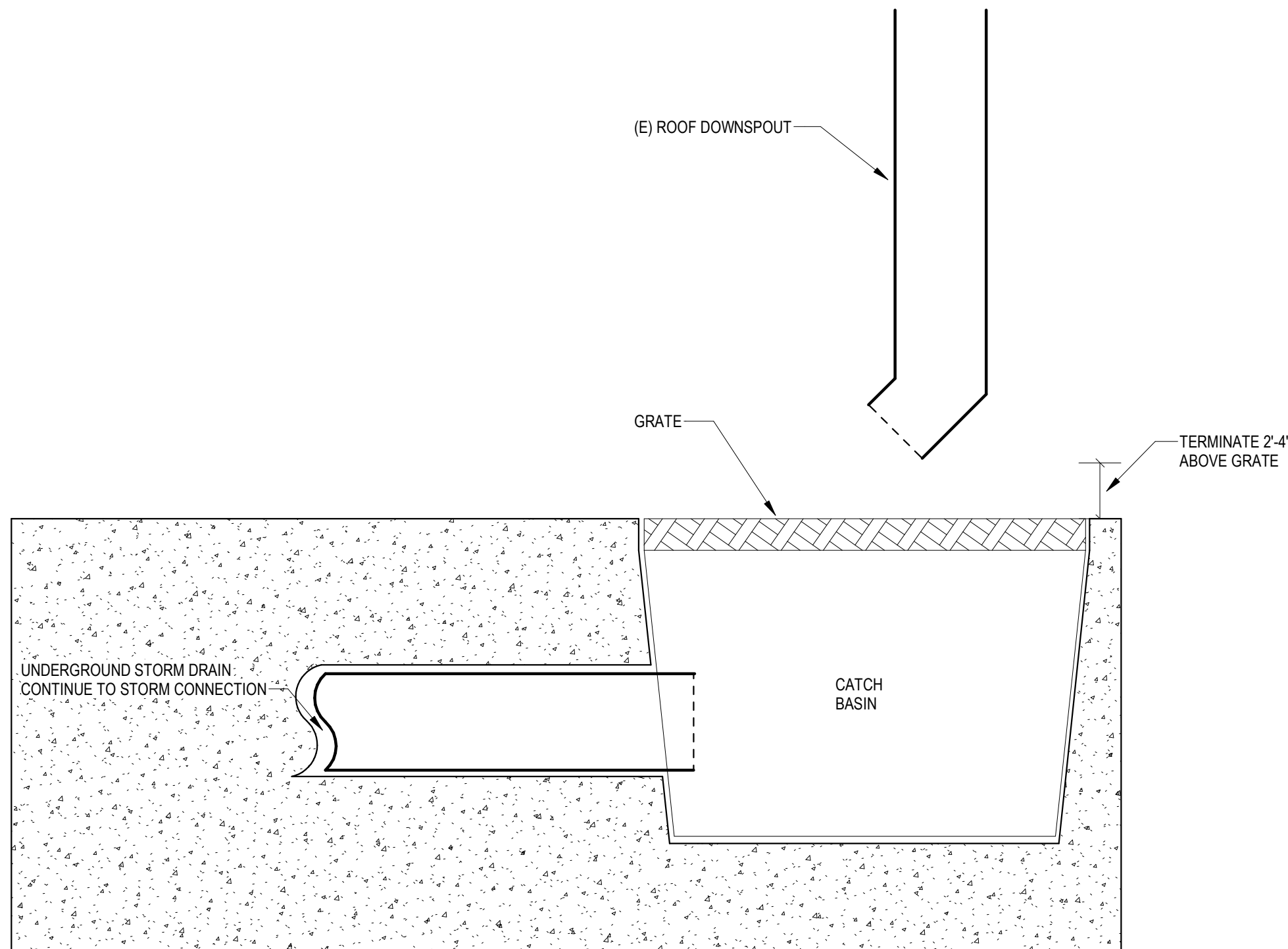
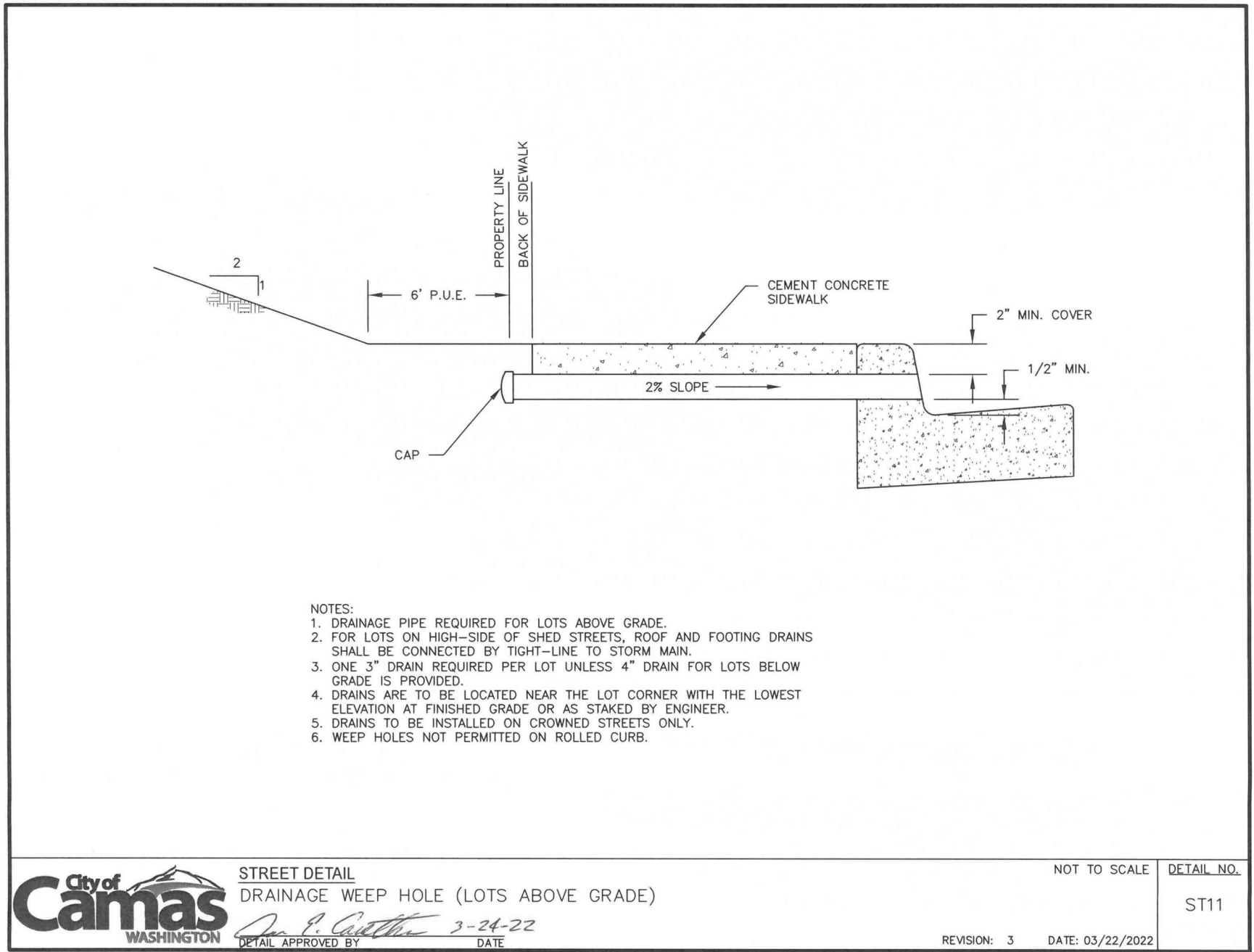
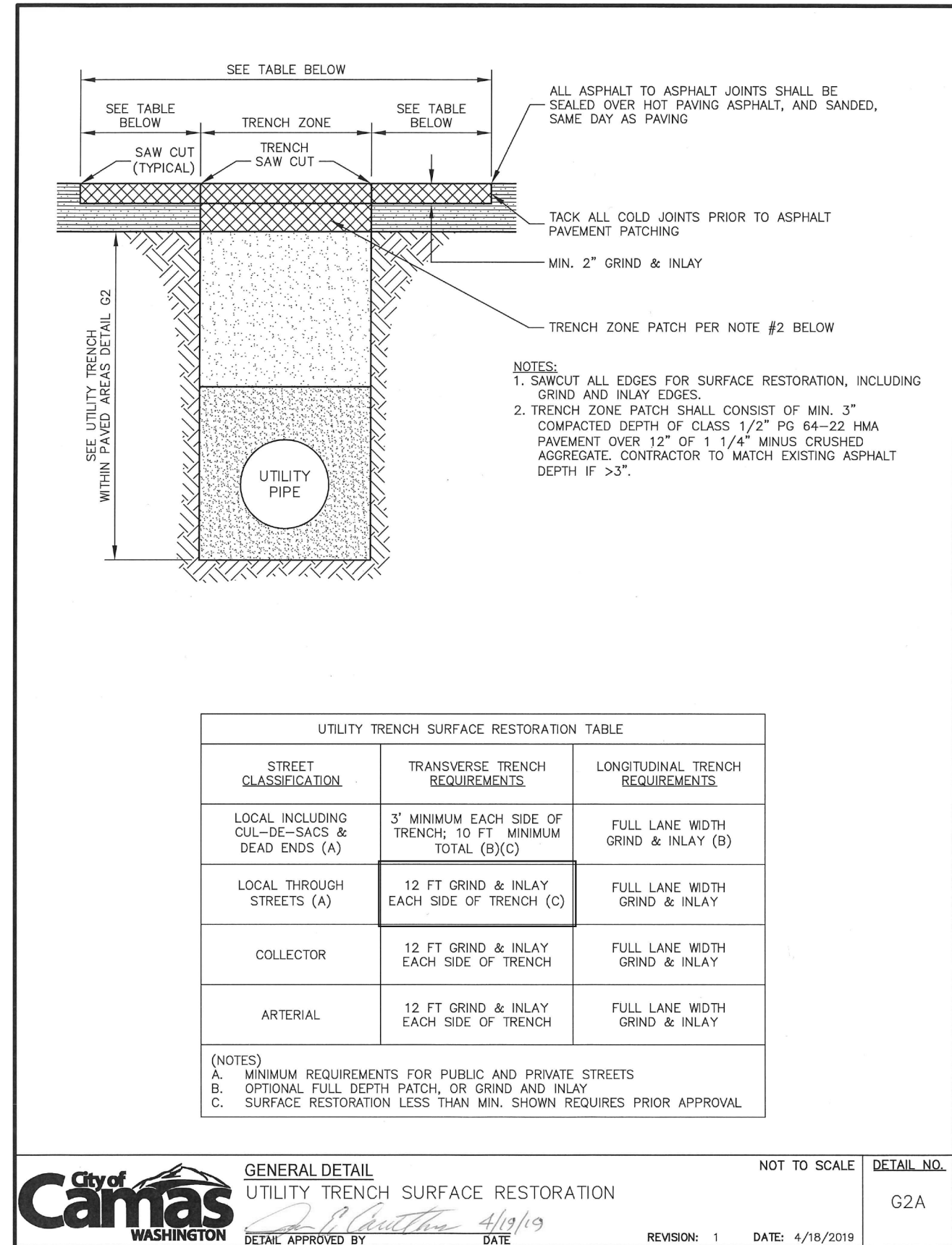
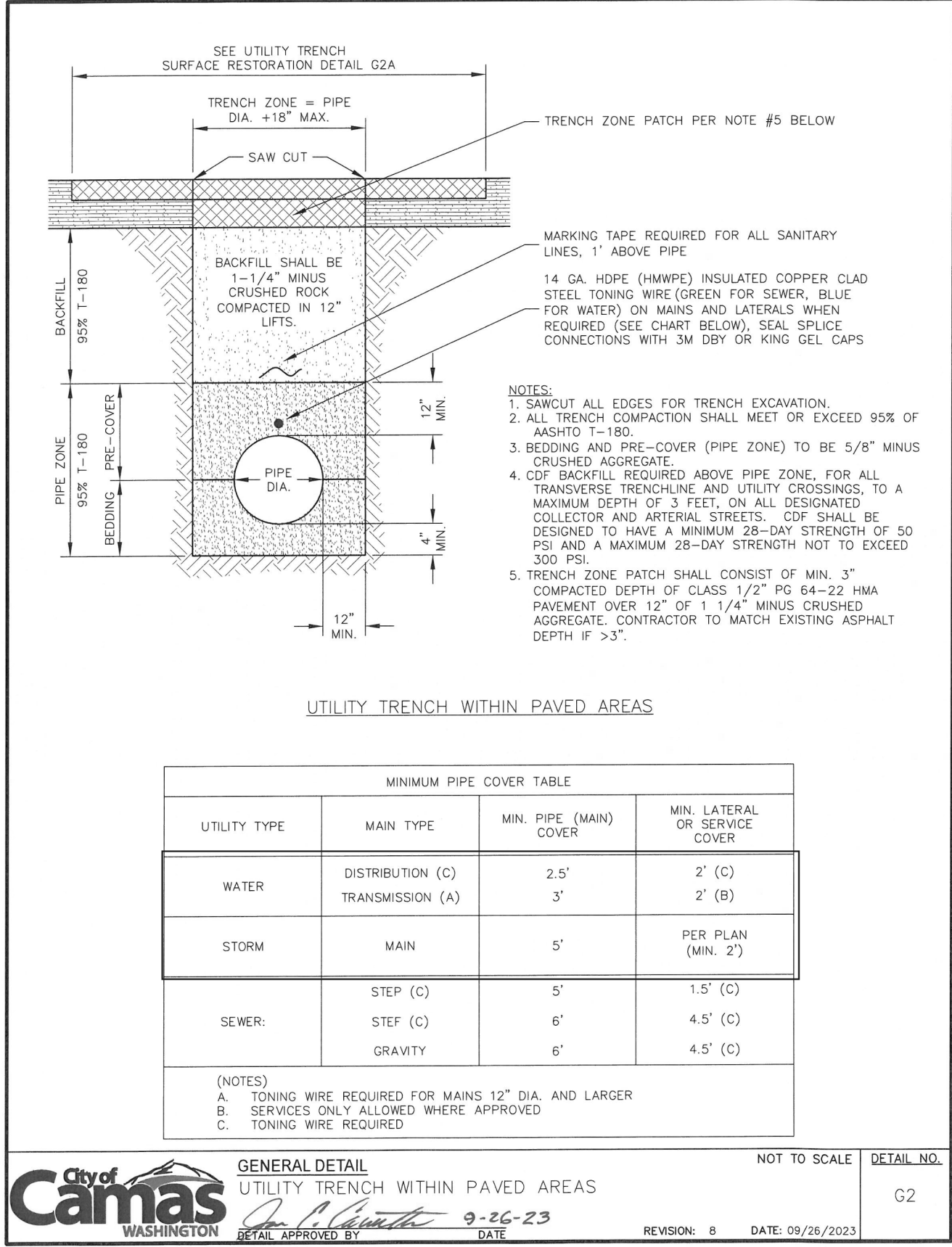
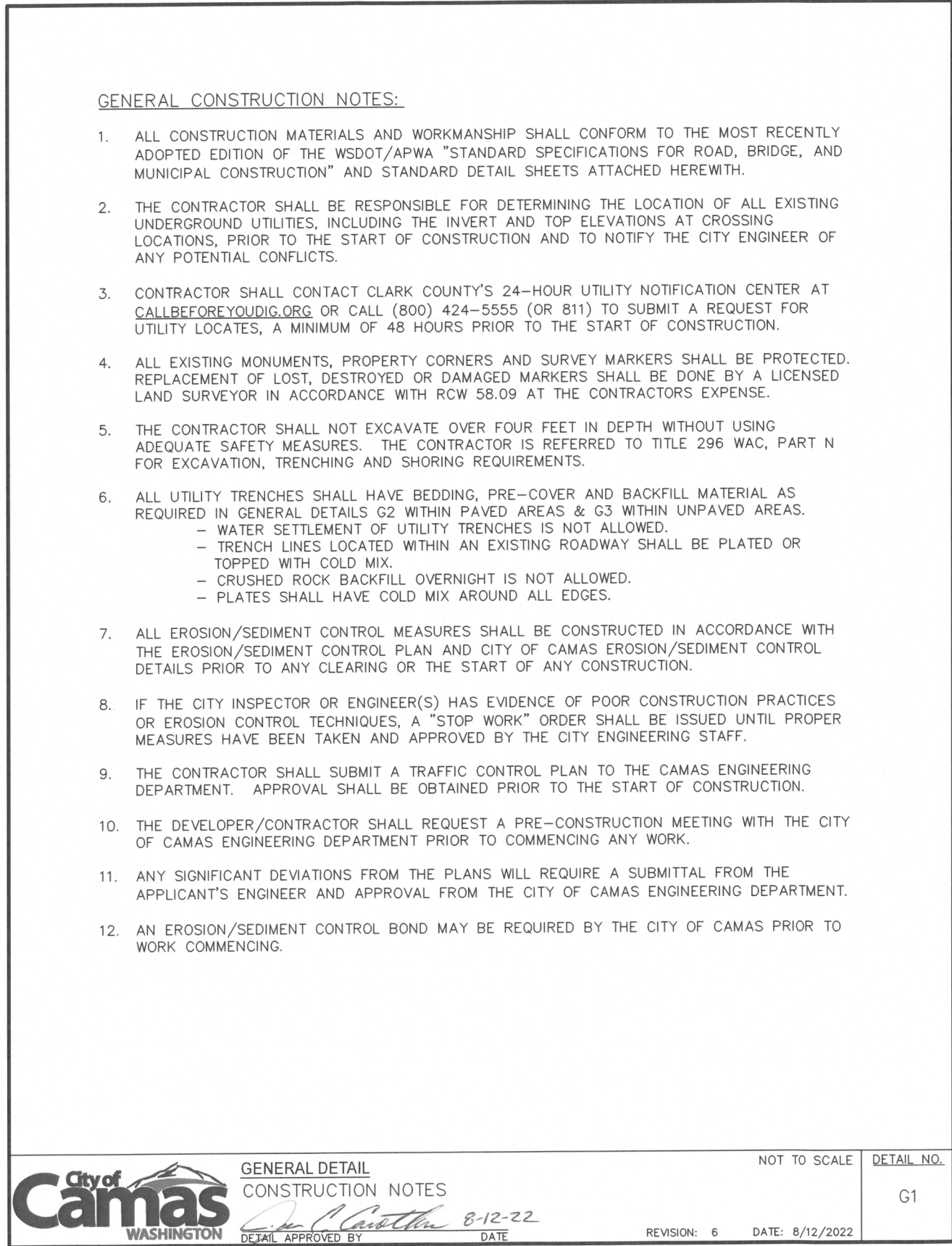
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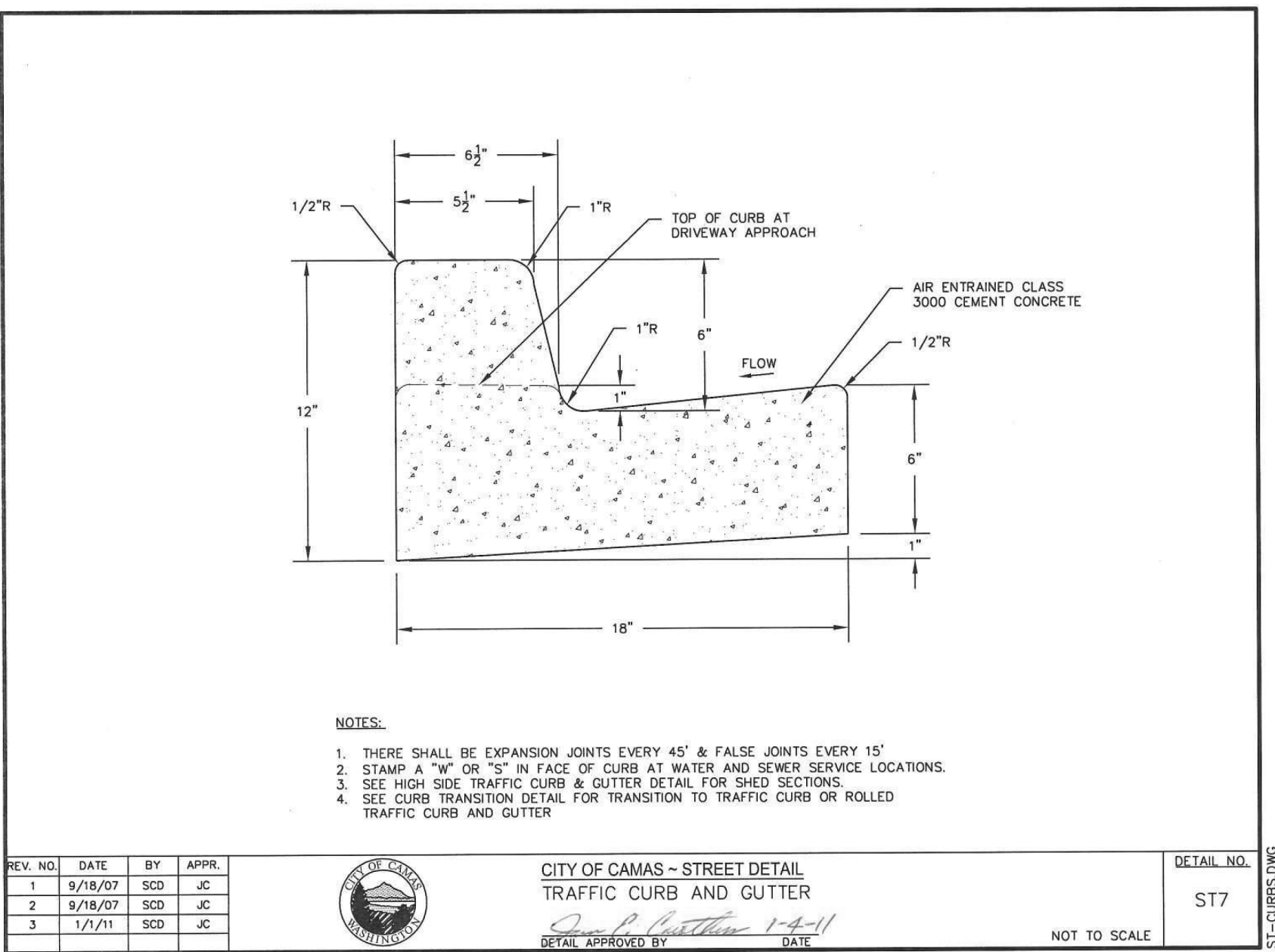
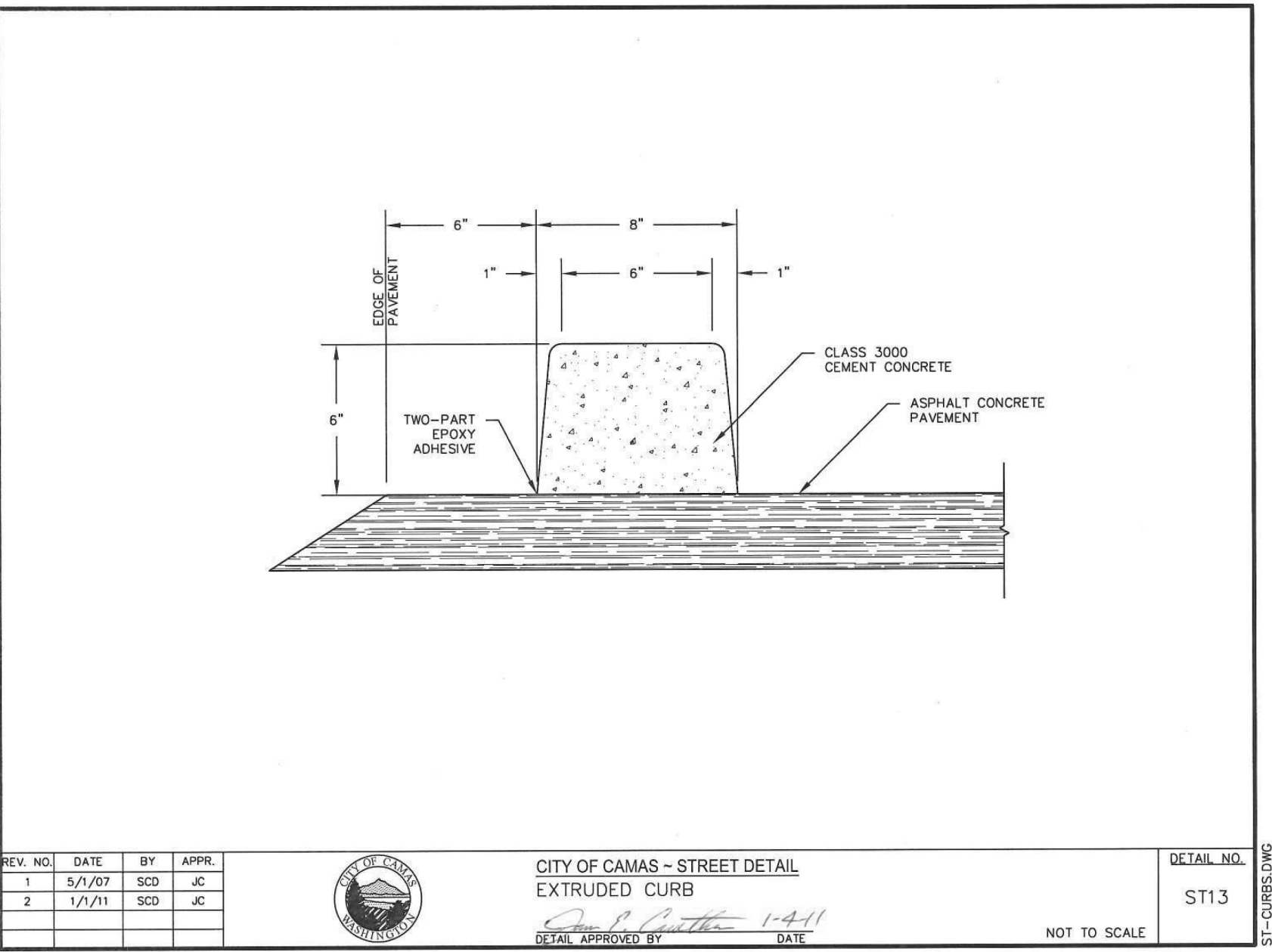
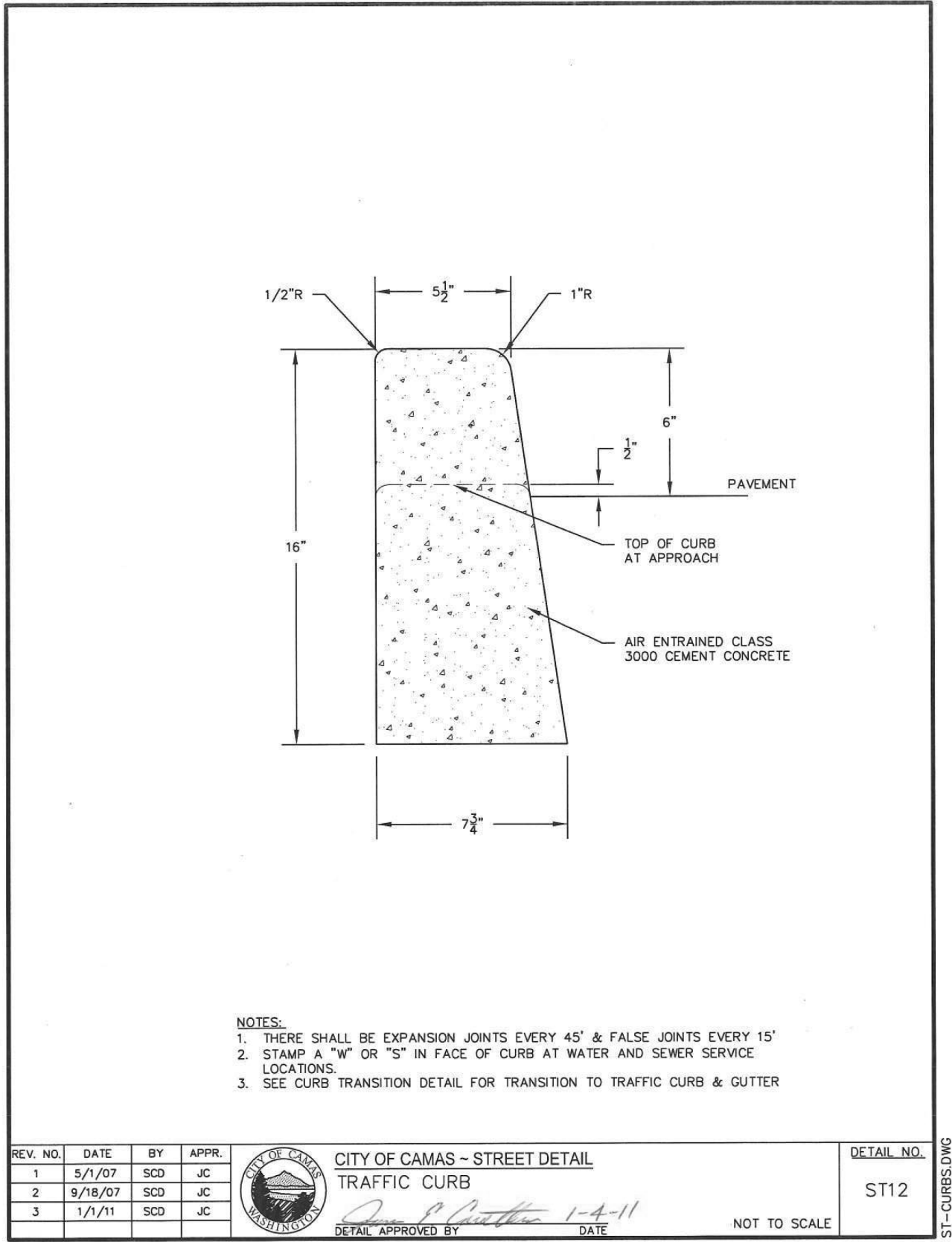
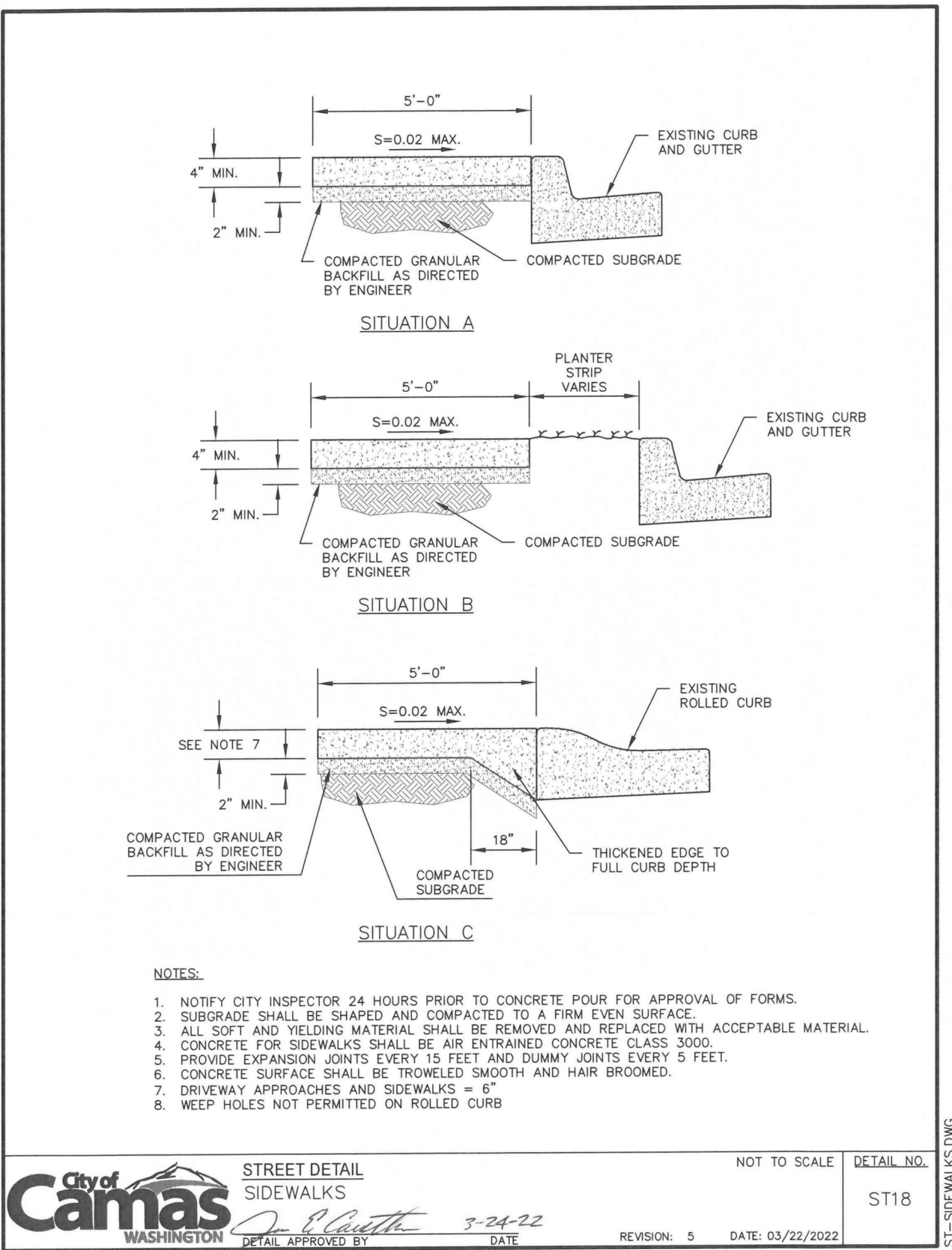
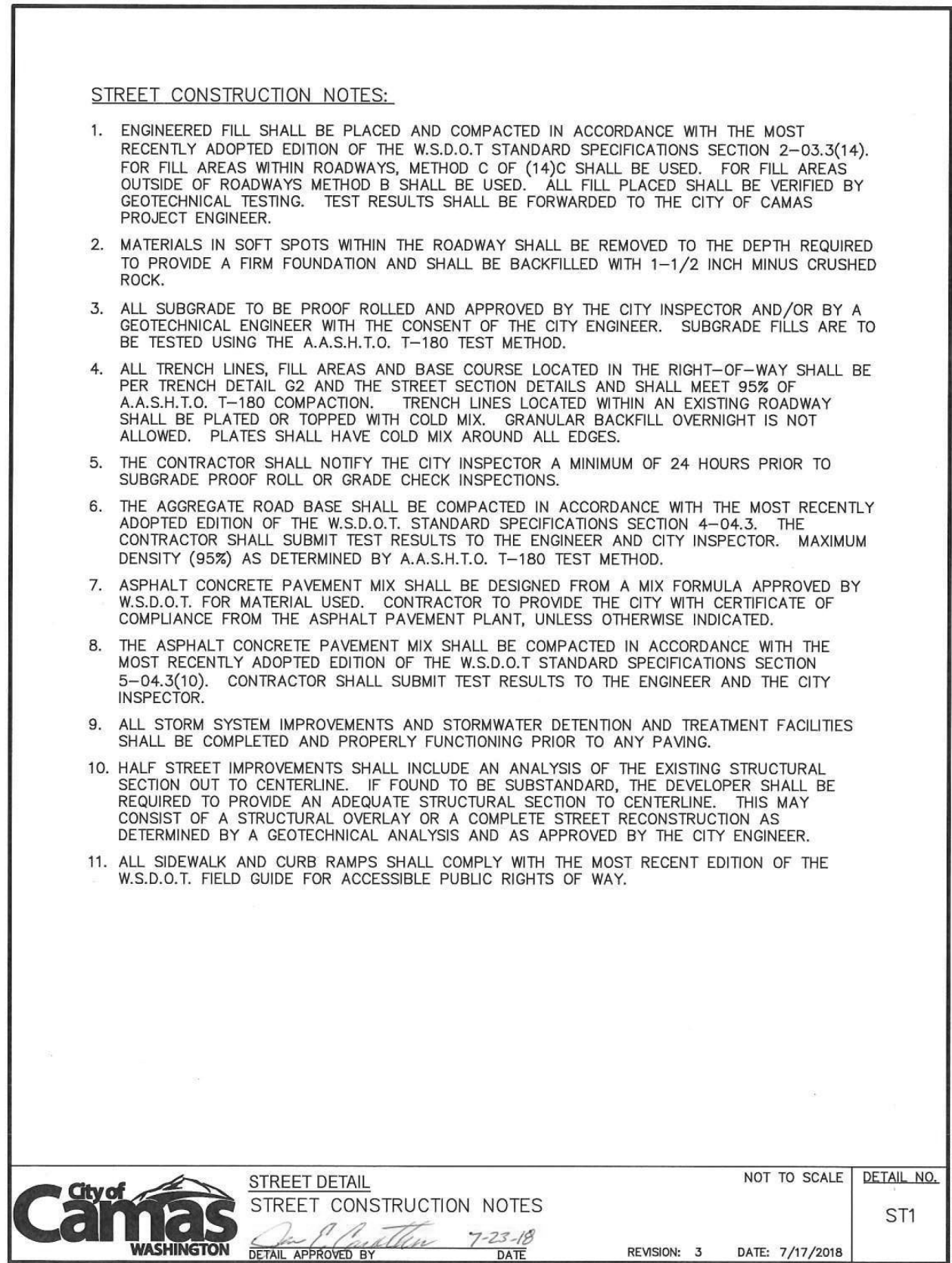
PROJECT MANAGER: LE
DRAWN BY: LD
CHECKED BY: DS

Issue Date:
10/22/2025

PLUMBING
CIVIL ENLARGED
PLANS

P101





Revisions: