

REDMOND SCHOOL DISTRICT

SPECIAL EDUCATION BUILDING

RELOCATION & RENOVATION

675 SW RIMROCK WAY REDMOND OREGON 97756

rhizo

architecture

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BEND, OREGON 97703
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REGISTERED ARCHITECT
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BEND, OREGON
AS-6579
STATE OF OREGON

Drawings and Specifications as instruments of service are and shall remain the property of the Architect. They are not to be used on extensions of the project, or other projects, except by agreement in writing and appropriate compensation to the Architect.

The General Contractor is responsible for confirming and correlating dimensions at the job site. The Architect will not be responsible for construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the project.

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REDMOND SCHOOL DISTRICT

SPECIAL EDUCATION BUILDING

MODULAR RELOCATION & RENOVATION

REDMOND HIGH SCHOOL

675 SW RIMROCK WAY / 720 SW 23RD ST.
REDMOND, OREGON 97756

ABBREVIATIONS

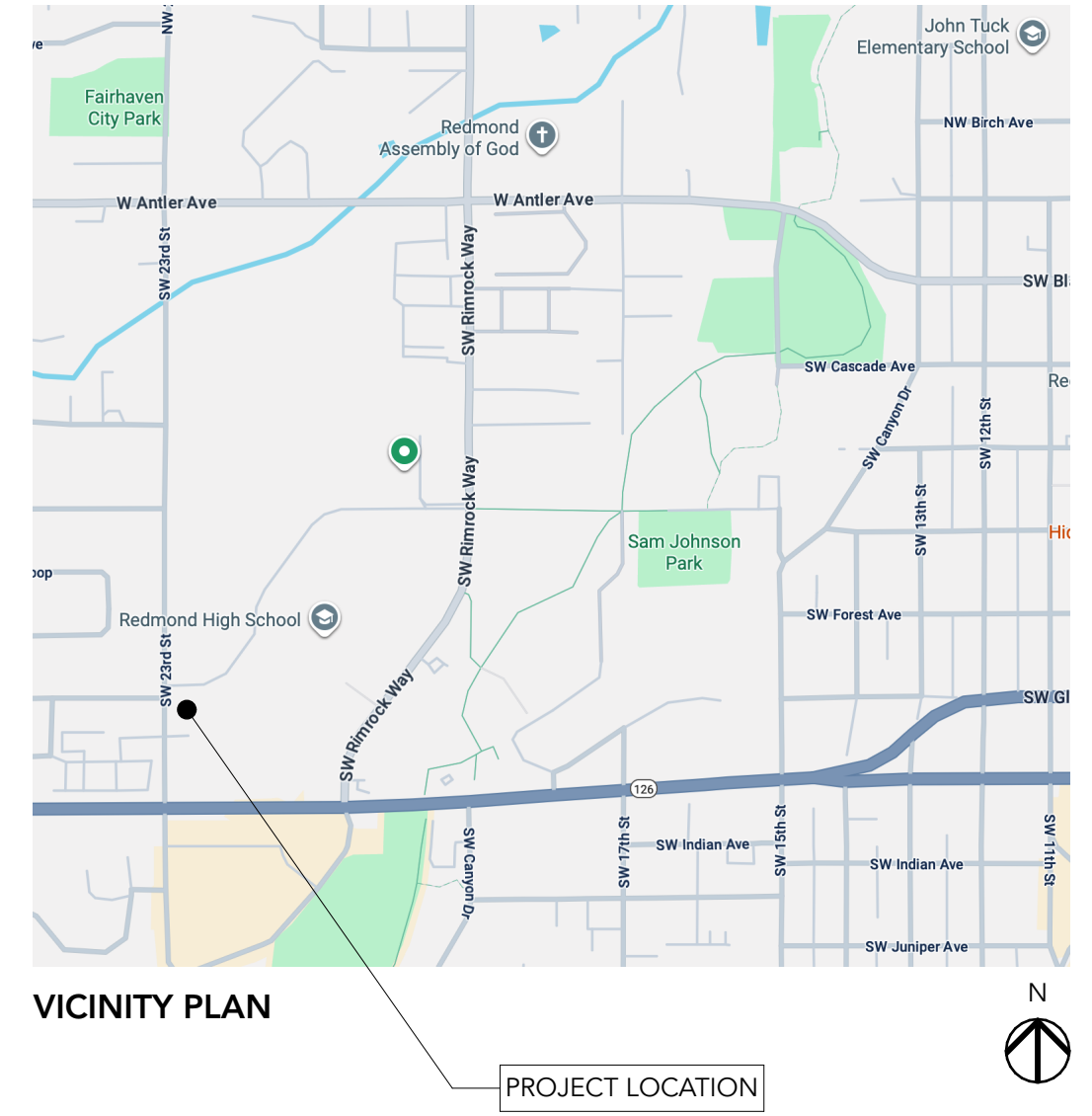
ABV	ABOVE
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADR	ART DISPLAY RAIL
AFF	ABOVE FINISH FLOOR
AFP	ACOUSTICAL FIBERBOARD PANEL
AL/ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATELY
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
ATTM	ATTACHMENT
ARCH	ARCHITECTURAL
@	AT
AWC	ACOUSTIC WALL COVERING
AWI	ACOUSTIC WALL PANEL INSULATION
AWP	ACOUSTIC WALL PANEL
BD	BOARD
BLDG	BUILDING
CB	CATCH BASIN
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CJ	CONTROL JOINT
CM	CARBON MONOXIDE DETECTOR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CON	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
CPT	CARPET TILE
CT	CERAMIC TILE
DBA	DEFORMED BAR ANCHOR
DEG	DEGREE
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
(E)	EXISTING
EL/ELEV	ELEVATION
EMT	ELECTRICAL METAL TUBING
EPF	EPOXY FLOOR PAINT
EQS	EDGE OF SLAB
EQ	EQUAL
ER	EPOXY RESIN
EXP_JT	EXPANSION JOINT
EXT	EXTERIOR
FC	FIBER CEMENT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FG	FINISH GRADE
FFHB	FOST FREE HOSE BIBB
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF FINISH WALL
FRL	FIBER REINFORCED LAMINATE
FRP	FIBRE REINFORCED POLYMER
FT	FOOT, FEET
FSD	FIRE SMOKE DAMPER

ABBREVIATIONS (CONT'D)

GA	GAUGE
GALV	GALVANIZED
GRC	GLASSFIBER REINFORCED CONCRETE
GWB	GYPSUM WALL BOARD
GWS	GLASS WRITING SURFACE
HB	HOSE BIBB
HDWR	HARDWARE
HM	HOLLOW METAL
HS	HOLLOW STEEL
HORIZ	HORIZONTAL
HT	HEIGHT
IN	INCH, INCHES
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
LAM	LAMINATED
LVT	LUXURY VINYL TILE
MAX	MAXIMUM
MDF	MEDIUM-DENSITY FIBERBOARD
MECH	MECHANICAL
MFG	MANUFACTURING
MFR	MANUFACTURER
MIN	MINIMUM
MTL	METAL
MP	METAL PANEL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OCC	OCCUPANTS
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OVERHEAD
OL	OCCUPANT LOAD
OPH	OPPOSITE HAND
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OSSC	OREGON STRUCTURAL SPECIALTY CODE
ORSC	OREGON RESIDENTIAL SPECIALTY CODE
OTA	OPEN TO ABOVE
P	PAINT
PB	PUSH BUTTON
PL, PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PS	PAINT SYSTEM
PR	PAIR
PT	PRESSURE-TREATED
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
RAF	RUBBER ATHLETIC FLOORING
RB	RUBBER BASE
RC	RESILIENT CHANNEL
RD	ROOF DRAIN
REF	REFERENCE
REQD	REQUIRED
RF	RUBBER FLOORING
RM	ROOM
RO	ROUGH OPENING
RR	RESTROOM
RST	RUBBER STAIR TREAD & RISER

ABBREVIATIONS (CONT'D)

SAM	SELF-ADHERING MEMBRANE
SAMF	SELF-ADHERING MEMBRANE FLASHING
SC	SEALED CONCRETE
SD	SMOKE DETECTOR
SDT	STATIC DISSIPATIVE TILE
SECT	SECTION
SF	SQUARE FEET
SFRM	SPRAYED FIRE-RESISTIVE MATERIAL
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SM	SHEET METAL
SS	STAINLESS STEEL
SSF	SPRUNG STAGE FLOORING
SSM	SOLID SURFACE MATERIAL
STD	STANDARD
STF	SEAMLESS TROWELED FLOORING
STL	STEEL
STRUCT	STRUCTURAL
TB	TACKBOARD
TBD	TO BE DETERMINED
TEMP	TEMPERED
TMT	THERMALLY MODIFIED WOOD
TMY	TIMELY KNOCK-DOWN FRAME
TO	TOP OF
TP	TOILET PARTITION
TS	TUBE STEEL
TWS	TACKABLE WALL SURFACE
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
WD	WOOD
WAF	WOOD ATHLETIC FLOORING
WHF	WHOLE HOUSE FAN
WOM	WALK OF MAT
WP	WALL PROTECTION
WRB	WEATHER RESISTIVE BARRIER



GENERAL NOTES

- SEE "G" SHEETS FOR ARCHITECTURAL ABBREVIATIONS, SYMBOLS AND NOTES
- SEE G002 FOR WALL TYPES
- SEE SCHEDULE SHEETS FOR DOOR SCHEDULE
- GRID LINES ALIGN WITH FACE OF STUD U.N.O.
- PLAN DIMENSIONS AT EXTERIOR WALLS ARE MEASURED FROM GRIDLINES/OUTSIDE FACE OF STRUCTURE U.N.O. EXISTING WALLS ARE MEASURED TO FACE OF FINISH. PLAN DIMENSIONS AT NEW INTERIOR WALLS ARE MEASURED TO FACE OF STRUCTURE, U.N.O.
- DOORS NOT LOCATED BY DIMENSION ARE TO BE CENTERED IN WALLS OR 3 1/2" INCHES FROM FACE OF FACE OF THE PERPENDICULAR WALL TO FACE OF JAMB AS SHOWN
- WHERE SOUND OR SHEAR WALL LOCATIONS ABUT OTHER WALL TYPES, PROVIDE FURRING TO ALIGN ALL FACES OF WALLS
- ALL WALLS WITH SOUND RATING GO TO DECK
- ALL WALLS IN OPEN CEILING LOCATIONS GO TO DECK
- PARTITION WALLS TERMINATE 6" ABOVE ADJACENT CEILING AND BRACED TO STRUCTURE U.N.O.
- ALL ELECTRICAL, MECHANICAL AND PLUMBING SHOWN FOR REFERENCE ONLY. SEE SHEETS IN APPROPRIATE SECTION FOR NOTES AND PLACEMENT

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- G-002 ASSEMBLIES, NOTES & LEGENDS
- G-003 CODE SUMMARY
- G-004 FIRST FLOOR CODE PLAN

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- C1.1 GENERAL NOTES & DETAILS
- C1.2 EXISTING CONDITIONS, DEMOLITION AND ...
- C1.3 SITE AND UTILITY PLAN
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- A-502 DETAILS
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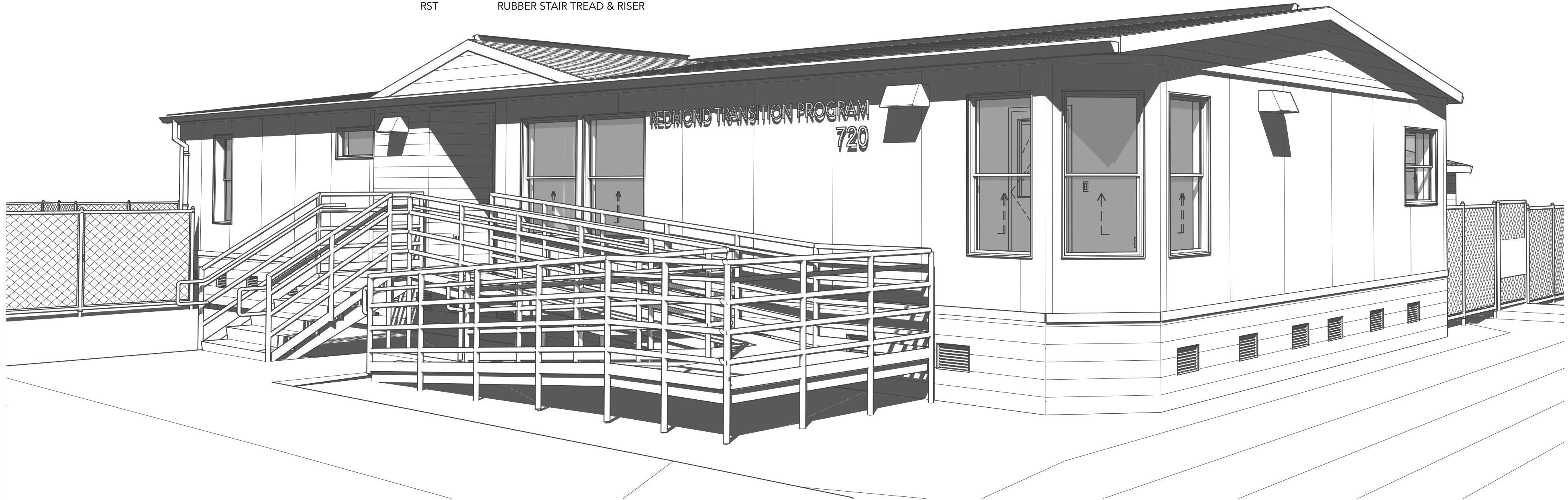
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- S000 GENERAL STRUCTURAL NOTES
- S001 ANNOTATIONS, SYMBOLS AND ABBREVIATIONS
- S002 STATEMENT OF SPECIAL INSPECTIONS
- S101 FOUNDATION PLAN
- S500 DETAILS

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- T-001 ICT SYMBOLS AND ABBREVIATIONS
- T-100 ICT SITE PLAN
- T-501 ICT DETAILS

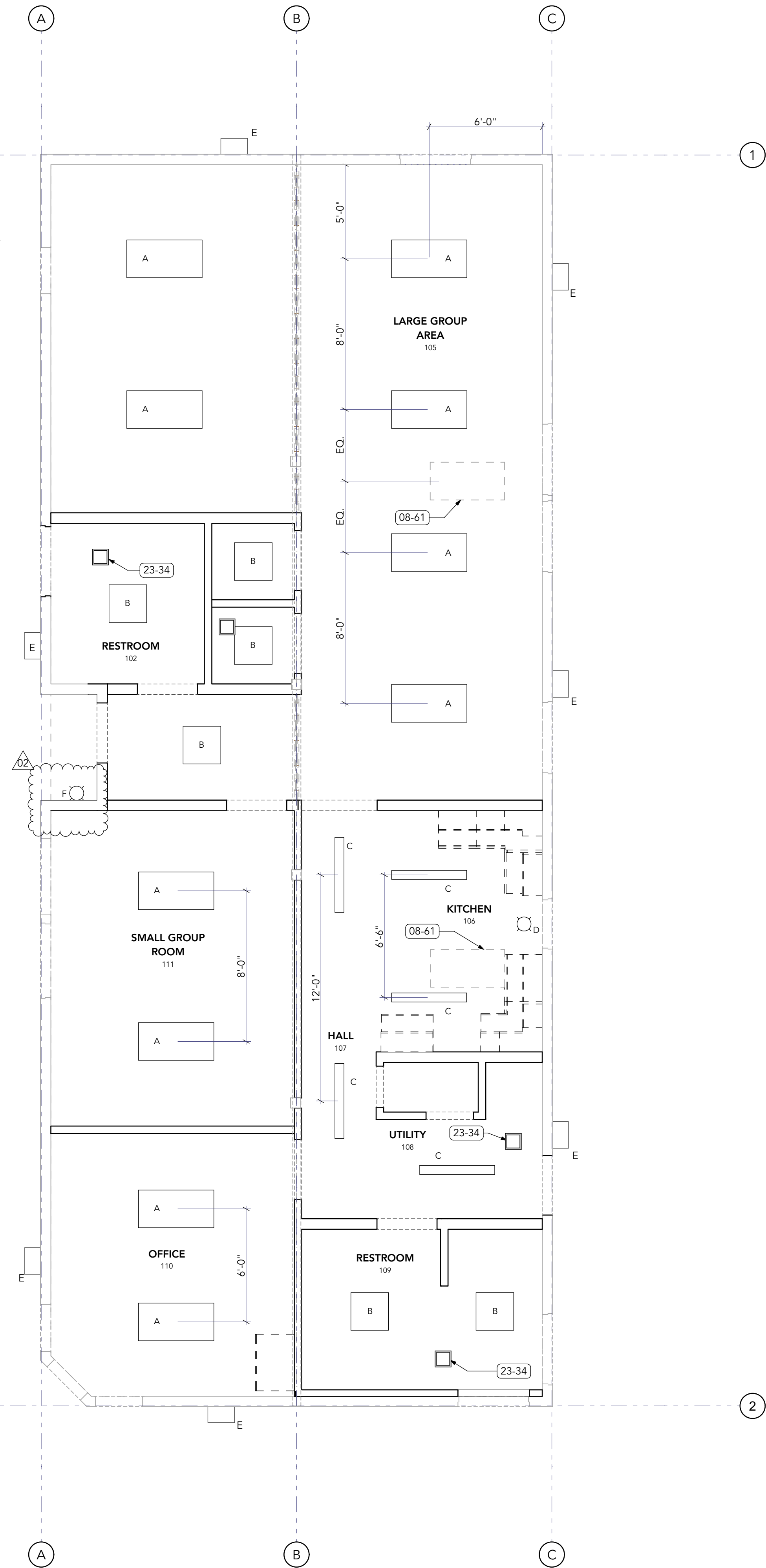


SHEET:
COVER SHEET

G-001

LIGHTING LEGEND							
TYPE	MANUFACTURER	DESCRIPTION	CATALOG NUMBER	BATTERY MODEL NUMBER	WATTAGE	CCT	COMMENTS
A	LITHONIA	LED 2x4 W/ SURFACE MOUNT KIT	CPANL 2X4 ALO6 SWW7 M2	ILB CP10 A	55	6000	PROVIDE BATTERY BACK-UP ON FIXTURES TO MEET 1.0 FC AVERAGE FOR PATH OF EGRESS AND NOT LESS THAN 0.1 FC
B	LITHONIA	LED 2x2 W/ SURFACE MOUNT KIT	CPANL 2X2 ALO1 SWW7 M4	ILB CP10 A	41	4400	PROVIDE BATTERY BACK-UP ON FIXTURES TO MEET 1.0 FC AVERAGE FOR PATH OF EGRESS AND NOT LESS THAN 0.1 FC
C	LITHONIA	LED 1x4 W/ SURFACE MOUNT KIT	CPANL 1X4 ALO1 SWW7 M4	ILB CP10 A	41	4400	PROVIDE BATTERY BACK-UP ON FIXTURES TO MEET 1.0 FC AVERAGE FOR PATH OF EGRESS AND NOT LESS THAN 0.1 FC
D	LITHONIA	LED 4 INCH ROUND	LBR4 ROUND SERIES		13	4000	
E	LITHONIA	ARCHITECTURAL WALL SCONCE	WST LED P1 30K VF MVOLT	E20WH	11	3000	PROVIDE BATTERY BACK-UP ON FIXTURES TO MEET 1.0 FC AVERAGE FOR PATH OF EGRESS AND NOT LESS THAN 0.1 FC
F	LITHONIA	ARCHITECTURAL WALL SCONCE	WDGE2 LED	E4WH	10	3000	DARK BRONZE FINISH. PROVIDE BATTERY BACK-UP ONLY AS REQUIRED TO MEET 1.0 FC AVERAGE FOR PATH OF EGRESS AND NOT LESS THAN 0.1FC

NOTE: ALL EXTERIOR LIGHTING SHOWN AND NOT SHOWN SHALL COMPLY WITH CITY OF REDMOND, ZONING CODE CHAPTER 21.34.



KEYNOTES
08-61 (E) UNIT SKYLIGHT TO REMAIN
23-34 EXHAUST FAN

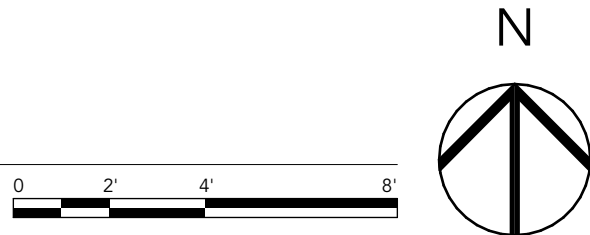


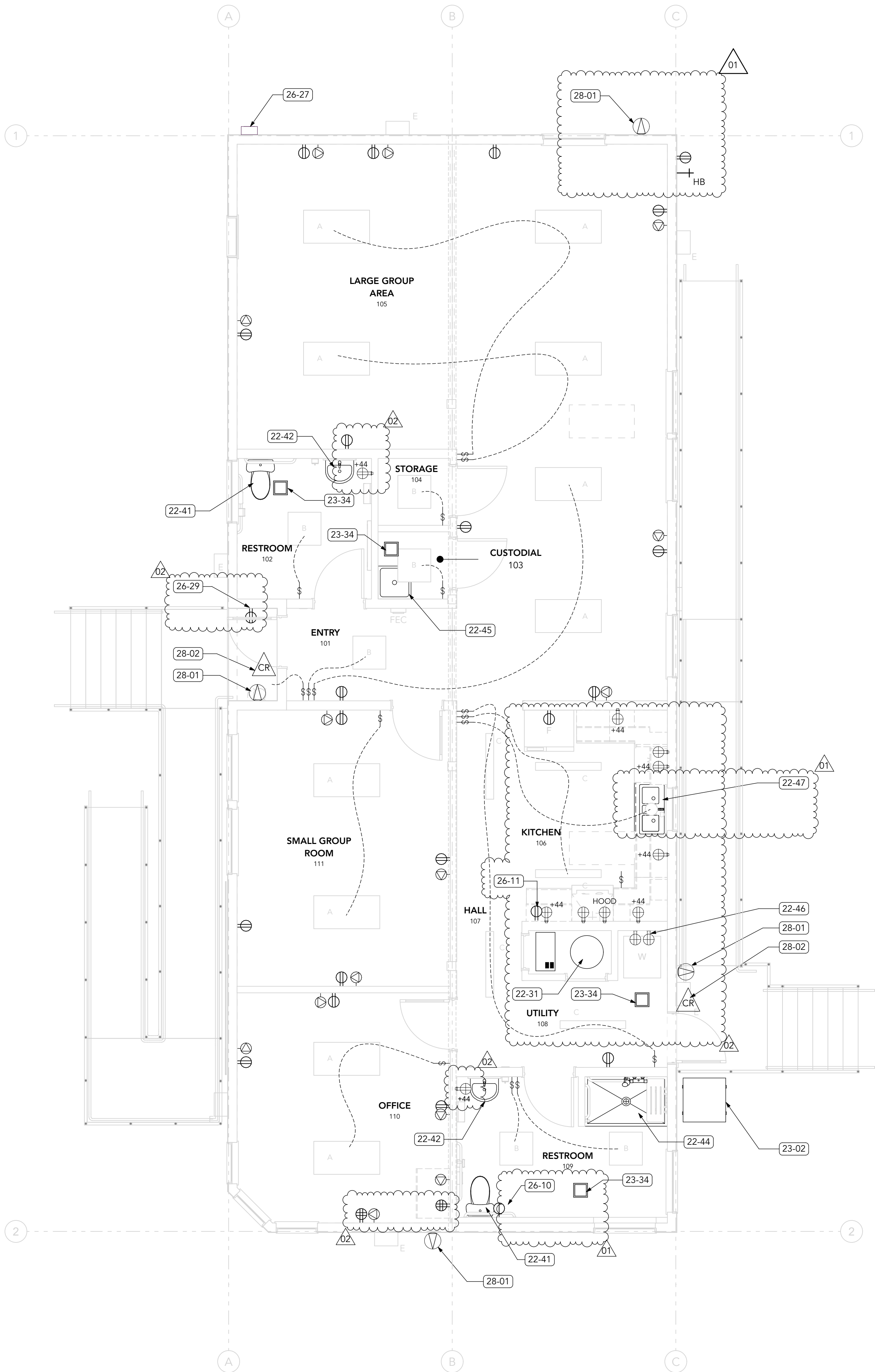
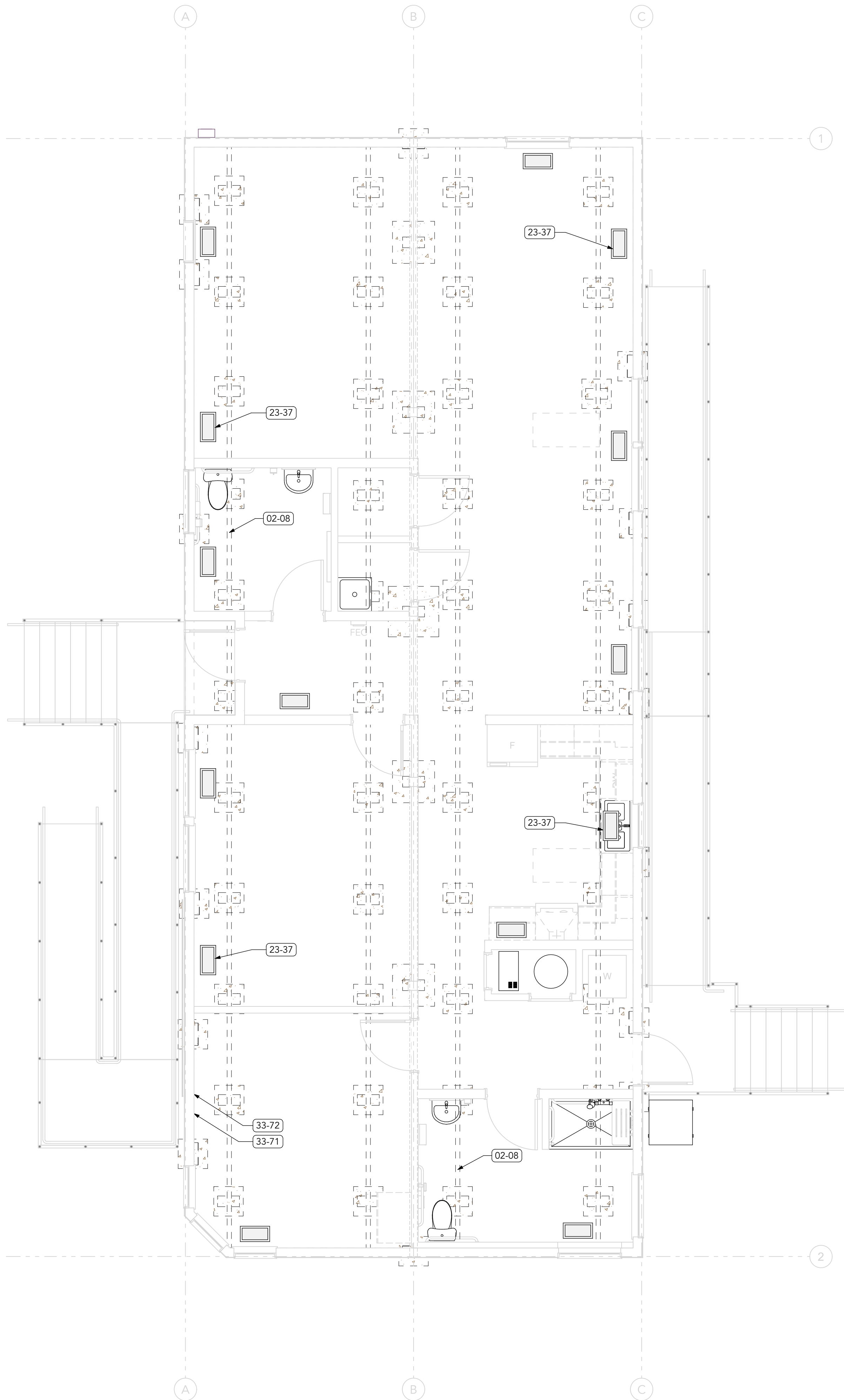
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REDMOND HIGH SCHOOL
675 SW RIMROCK WAY / 720 SW 23RD ST.
REDMOND, OREGON 97756

DRAWN:	STAFF
CHECKED:	MMG
PRINT DATE:	02.04.2026
ISSUANCE LOG:	
00	12/30/25
PERMIT & BID SET	
01	1/20/26
REVISION 01 / ADDENDUM 02	
02	2/4/26
REVISION 02 / ADDENDUM 03	

SHEET:
FIRST FLOOR RCP





MEP PLAN NOTES:

THE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS SHOWN ARE DIAGRAMMATIC IN NATURE AND INTENDED TO CONVEY GENERAL SCOPE AND DESIGN INTENT FOR THE PURPOSES OF BIDDING. THE CONTRACTOR AND DESIGN/BUILD SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE DESIGN, CODE COMPLIANCE, COORDINATION AND PROPER FUNCTION OF ALL MECHANICAL, ELECTRICAL AND PLUMBING SYSTEM WHETHER OR NOT FULLY SHOWN.

KEYNOTES

02 EXISTING CONDITIONS

02-08 (E) CHASSIS BEAM - SEE STRUCTURAL

22 PLUMBING

22-31 DOMESTIC WATER HEATER

22-41 WATER CLOSET SIMILAR TO KOHLER, KINGSTON MODEL K-26077-0

22-42 WALL MOUNTED LAVATORY SIMILAR TO KOHLER K-2032-N, ONE HOLE PUNCH W/ FAUCET SIMILAR TO DELTA 505LF. PROVIDE WALL CARRIER FOR COMPLETE INSTALLATION.

22-44 ROLL-IN SHOWER KIT FOR RENOVATION PROJECTS SIMILAR TO FREEDOM ADA ROLL-IN SHOWER MODEL: APF6238BF5P75.

22-45 FLOOR MOUNTED MOP SINK SIMILAR TO ACORN 1630 WITH INTEGRAL CHECK, MOP HANGER, BUMPER GUARDS, WALL GUARDS.

22-46 STACKED WASHER AND DRYER. PROVIDE ELECTRICAL AND PLUMBING HOOK-UPS

22-47 ADA COMPLIANT (3) BASIN SINK W/ GARBAGE DISPOSAL

23 HVAC

23-02 PROPOSED HEAT PUMP LOCATION. COORDINATE FINAL LOCATION W/ ARCHITECT. PROVIDE OUTDOOR WEATHER RESISTANT RECEPTACLE TO MEET NEC 210.62

23-34 EXHAUST FAN

23-37 (N) HVAC FLOOR REGISTER, TYP. COORDINATE LOCATION W/ FOUNDATION COMPONENTS.

26 ELECTRICAL

26-10 PROVIDE POWER FOR BIDET TOILET SEAT

26-11 GFCI OUTLET IN BACKSPLASH FOR REACH RANGE COMPLIANCE

26-27 ELECTRICAL METER LOCATION

26-29 EXTERIOR CONVENIENCE OUTLET

28 ELECTRONIC SAFETY AND SECURITY

28-01 SECURITY CAMERA

28-02 DOOR ACCESS CONTROL CARD READER

33 UTILITIES

33-71 APPROXIMATE LOCATION OF WATER SERVICE ENTRY

33-72 APPROXIMATE LOCATION OF SANITARY SEWER EXIT

MEP SYMBOL LEGEND

- DUPLEX OUTLET
- QUAD OUTLET
- GFCI OUTLET
- DATA OUTLET

DRAWN:

STAFF

CHECKED:

MMG

PRINT DATE: 02.04.2026

ISSUANCE LOG:

00	12/30/25
PERMIT & BID SET	
01	1/20/26
REVISION 01 / ADDENDUM 02	
02	2/4/26
REVISION 02 / ADDENDUM 03	

SHEET:

DIAGRAMMATIC MEP
PLANS

GENERAL STRUCTURAL NOTES:

GENERAL:

- THESE DRAWINGS HAVE BEEN PREPARED SOLELY FOR USE IN THE CONSTRUCTION OF THE NEW FOUNDATIONS FOR THE SPECIAL EDUCATION MODULAR AT THE LOCATION OF 675 SW RIMROCK WAY, REDMOND, OR. POSSESSION OF THESE DRAWINGS DOES NOT GRANT A LICENSE TO CONSTRUCT OR FABRICATE THE WHOLE, OR PARTS OF THIS PROJECT IN OTHER LOCATIONS.
- STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND SITE CIVIL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THESE DRAWINGS INCLUDING BUT NOT LIMITED TO DIMENSIONS, BLOCKOUTS, OPENINGS, SLEEVES, EMBEDDED ITEMS, ETC. INTO THEIR SHOP DRAWINGS AND WORK. NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD OF ANY DISCREPANCIES OR IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN OR NOTED.
- DO NOT SCALE OR RESIZE THE DRAWINGS IN ANY MANNER. ANY ADJUSTMENTS TO THE SIZE OR SCALE OF THE DRAWINGS MAY RESULT IN MISINTERPRETATION OF CRITICAL DIMENSIONS AND DETAILS.
- THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTER AND EXTENT OF THE PROJECT AND ARE NOT INTENDED TO SHOW ALL DETAILS OF WORK. USE ENTIRE DETAIL SHEETS AND SPECIFIC DETAILS REFERENCED IN THE PLANS AS "TYPICAL" WHEREVER THEY APPLY. USE DETAILS ON ENTIRE SHEETS WITH "TYPICAL" IN THE NAME WHEREVER THEY APPLY.
- WHERE DESCREANCIES OCCUR BETWEEN THE GENERAL STRUCTURAL NOTES, SPECIFICATIONS, PLANS/DETAILS OR REFERENCE STANDARDS, THE ARCHITECT/ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. SHOULD ANY DISCREPANCY BE FOUND IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL INCLUDE IN THE PRICE THE MOST EXPENSIVE WAY OF COMPLETING THE WORK, UNLESS PRIOR TO THE SUBMISSION OF THE PRICE, THE CONTRACTOR ASKS FOR A DECISION FROM THE ARCHITECT AS TO WHICH SHALL GOVERN. CONFLICTS BETWEEN THE CONTRACT DOCUMENTS SHALL NOT BE A BASIS FOR ADJUSTMENT IN CONTRACT PRICE.
- THE CONTRACTOR SHALL FURNISH THE PRODUCTS SPECIFIED ON THE DRAWINGS. SUBSTITUTIONS WILL BE CONSIDERED ONLY IF THE CONTRACTOR PROVIDES DOCUMENTATION TO PROVE THE ALTERNATIVE EQUALS OR EXCEEDS THE STRUCTURAL PERFORMANCE CHARACTERISTICS OF THE SPECIFIED PRODUCT.
- CODE REQUIREMENTS:**
 - ALL WORK SHALL BE IN STRICT COMPLIANCE WITH:
 - 2021 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE STATE OF OREGON (2022 OREGON STRUCTURAL SPECIALTY CODE)
 - ALL OTHER STATE AND LOCAL BUILDING REQUIREMENTS THAT APPLY.
- TEMPORARY CONDITIONS:**
 - THE STRUCTURAL DRAWINGS REPRESENT THE STRUCTURE IN THE FINAL CONSTRUCTED CONDITION. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SUPPORT PRIOR TO COMPLETION OF VERTICAL AND LATERAL LOAD SYSTEMS. MORRISON-MAIERLE HAS NOT BEEN RETAINED TO PROVIDE ANY SERVICES RELATED TO JOB SITE SAFETY PRECAUTIONS, OR TO REVIEW THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES FOR THE CONTRACTOR TO PERFORM WORK, UNLESS WE ARE SPECIFICALLY RETAINED AND COMPENSATED TO DO OTHERWISE. OUR WORK IS LIMITED TO THE FINAL DESIGN OF THE WORK DESCRIBED ON OUR DRAWINGS FOR THIS PROJECT.
 - CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
 - BASEMENT WALLS WHICH TIE TO UPPER SLABS SHALL NOT BE BACKFILLED UNTIL THE UPPER SLABS REACH FULL STRENGTH UNLESS ADEQUATE BRACING IS PROVIDED AT THE TOP OF THE WALL.
- EXISTING CONDITIONS:**
 - EXISTING BUILDING/SITE DIMENSIONS AND ASSUMED CONDITIONS ARE TO BE VERIFIED IN THE FIELD AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD OF ALL DISCREPANCIES WHICH REQUIRE A SIGNIFICANT CHANGE IN THE DESIGN AND/OR CONSTRUCTION FROM THAT SHOWN ON THE DRAWINGS.
- PROJECT SCOPE:**
 - THIS PROJECT CONSISTS OF MOVING AN EXISTING MODULAR BUILDING FROM ITS CURRENT LOCATION AT TERREBONNE COMMUNITY SCHOOL IN TERREBONNE, OR TO A NEW LOCATION AT REDMOND HIGH SCHOOL IN REDMOND, OR. MORRISON-MAIERLE HAS BEEN CONTRACTED TO PROVIDE STRUCTURAL ENGINEERING SERVICES TO DESIGN A NEW FOUNDATION SYSTEM TO SUPPORT THE MODULAR AT THE FINAL LOCATION. MORRISON-MAIERLE HAS NOT BEEN CONTRACTED TO EVALUATE THE ABILITY OF THE EXISTING STRUCTURE TO BE TRANSPORTED FROM ITS EXISTING LOCATION TO A NEW LOCATION OR TO RESIST THE DEAD, LIVE, SNOW, WIND OR SEISMIC LOADS THAT IT MAY BE SUBJECT TO AT THE NEW LOCATION.

DESIGN CRITERIA:

- DESIGN IS BASED ON THE FOLLOWING LOADING FOR THE BASIS OF STRENGTH, PERFORMANCE, AND SERVICEABILITY OF THE STRUCTURE:

DESIGN CRITERIA (FOR FOUNDATION DESIGN ONLY)			
LIVE LOAD CRITERIA (IBC 1603.1.1)			
FLOOR LIVE LOADS:		UNIFORM LOAD	CONCENTRATED LOAD
SCHOOLS: CLASSROOMS		40 PSF	1000 LBS
ROOF LIVE LOAD CRITERIA (IBC 1603.1.2)			
ORDINARY FLAT, PITCHED, CURVED		20 PSF (SEE SNOW LOAD)	N/A
SNOW LOAD CRITERIA (IBC 1603.1.3)			
DESIGN ROOF SNOW LOAD		25 PSF MINIMUM	
SNOW DRIFT		PER ASCE 7.16 AS SHOWN ON PLANS	
GROUND SNOW LOAD		Pg = 15 PSF (REF. 2007 SNOW LOAD ANALYSIS FOR OREGON)	
FLAT ROOF SNOW LOAD		Pf = 20 PSF	
SNOW EXPOSURE FACTOR		Ce = 1.0	
SNOW LOAD IMPORTANCE FACTOR		Is = 1.0	
THERMAL FACTOR		Ct = 1.0	
WIND LOAD CRITERIA (IBC 1603.1.4)			
BASIC DESIGN WIND SPEED		V = 110 MPH	
RISK CATEGORY		II	
WIND EXPOSURE		B	
INTERNAL PRESSURE COEFFICIENT		GCpi = +/- 0.18	
COMPONENT & CLADDING PRESSURE FOR DEFERRED DESIGN ELEMENTS		N/A, DESIGN IS LIMITED TO FOUNDATIONS AND ANCHORAGE	
SEISMIC LOAD CRITERIA (IBC 1603.1.5)			
RISK CATEGORY		II	
SEISMIC IMPORTANCE FACTOR		Ie = 1.0	
MAPPED SPECTRAL RESPONSE		Ss = 0.362	S1 = 0.187
SITE CLASS		C	
DESIGN SPECTRAL RESPONSE		Sds = 0.314	Sd1 = 0.28
SEISMIC DESIGN CATEGORY		D	
GEOTECHNICAL CRITERIA (IBC 1603.1.6)			
DESIGN BASIS		PRESUMPTIVE VALUES OF SOILS (IBC 1806)	
DESIGN SOIL BEARING PRESSURE		1500 PSF (DL + LL)	2000 PSF (EL / WL INCLUDED)
RETAINING WALLS EQ. FLUID PRESSURE		35 PCF (ACTIVE)	55 PCF (AT REST)
PASSIVE BEARING PRESSURE		250 PSF/FT	
COEFFICIENT OF SLIDING FRICTION		0.3	

STRUCTURAL OBSERVATIONS:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER OF RECORD A MINIMUM OF 24 HOURS IN ADVANCE OF LISTED OBSERVATION STAGES BELOW. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE OBSERVER. APPROVAL BY THE MUNICIPAL INSPECTOR DOES NOT PRECLUDE OBSERVATIONS BY THE ENGINEER OF RECORD AND APPROVAL BY THE ENGINEER OF RECORD DOES NOT PRECLUDE THE INSPECTION PROCESS BY THE MUNICIPAL INSPECTOR AND ANY OTHER CODE REQUIREMENTS FOR INSPECTION.

STRUCTURAL OBSERVATIONS	
STAGE	COMMENTS
PRIOR TO FIRST CONCRETE POUR	AFTER REBAR PLACEMENT
AS REQUIRED TO ADDRESS STRUCTURAL...	

SUBMITTALS:

- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION OF ALL STRUCTURAL PRODUCTS, INCLUDING THE FOLLOWING:

SUBMITTALS		
ITEM	SUBMITTAL	DEFERRED SUBMITTAL
STRAP TIE ANCHORS	X	
MASONRY REINFORCEMENT	X	
MASONRY BLOCK, MORTAR, GROUT MATERIALS	X	
CONCRETE MIX DESIGNS	X	
CONCRETE REINFORCEMENT	X	
STAIRS, RAMPS, LADDERS AND RAILINGS	X	X

- SHOP DRAWINGS SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION FOR ALL STRUCTURAL PRODUCTS DELIVERED TO THE PROJECT. IF THE SHOP DRAWINGS DEViate FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND ACCEPTANCE OF THE STRUCTURAL ENGINEER OF RECORD.
- DEFERRED SUBMITTAL DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE DEFERRED SUBMITTAL SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND ARE SUBJECT TO REVIEW AND ACCEPTANCE OF THE STRUCTURAL ENGINEER FOR LOADS IMPOSED ON THE SUPPORTING STRUCTURE. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE CODES AND DESIGN CRITERIA NOTED IN THESE GENERAL STRUCTURAL NOTES.
- THE CONTRACTOR SHALL COORDINATE SEISMIC RESTRAINTS OF MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT, MACHINERY AND ASSOCIATED PIPING WITH THE STRUCTURE. CONNECTIONS TO STRUCTURE SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.
- FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DEViate FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.
- THE USE OF REPRODUCTIONS OR PHOTOCOPIES OF THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED. WHEN CAD OR REVIT FILES ARE PROVIDED TO THE CONTRACTOR OR SUBCONTRACTORS, IT IS THE RESPONSIBILITY OF THE DETAILERS TO REMOVE ALL INFORMATION NOT DIRECTLY RELEVANT TO THE CREATION OF THE PLACING DRAWINGS AS WELL AS ALL REFERENCES TO THE OUTSIDE SOURCE FILES.
- SUBMITTAL DOCUMENTS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO BEING SUBMITTED TO THE ARCHITECT FOR REVIEW.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REVIEWED SUBMITTAL TO THE BUILDING DEPARTMENT FOR DEFERRED PERMIT APPLICATION. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

EARTHWORK:

PRESCRIPTIVE EARTHWORK:

- AT THE OWNERS DIRECTION, A GEOTECHNICAL INVESTIGATION HAS NOT BEEN PERFORMED. IF ANY OF THE FOLLOWING CONDITIONS ARE DISCOVERED DURING CONSTRUCTION AT THE BUILDING SITE, A GEOTECHNICAL INVESTIGATION SHALL BE COMMISSIONED IN ACCORDANCE WITH CHAPTER 18 OF THE INTERNATIONAL BUILDING CODE:
 - QUESTIONABLE SOIL
 - EXPANSIVE SOIL
 - GROUND-WATER TABLE IS ABOVE OR WITHIN 5 FEET BELOW THE ELEVATION OF THE LOWEST FLOOR LEVEL WHERE SUCH FLOOR IS LOCATED BELOW THE FINISHED GROUND LEVEL ADJACENT TO THE FOUNDATION.
 - ROCK STRATA OF VARIABLE OR DOUBTFUL CHARACTERISTICS
 - EXCAVATIONS THAT WILL REMOVE THE LATERAL SUPPORT OF AN ADJACENT, EXISTING FOUNDATION
 - USE OF COMPACTED FILL MATERIAL BELOW SHALLOW FOUNDATIONS IN EXCESS OF 12 INCHES IN DEPTH
 - USE OF CONTROLLED LOW-STRENGTH MATERIAL (CLSM)
- THE SITE WORK DESCRIBED BELOW IS BASED ON RECOMMENDATIONS FROM THE PRESCRIPTIVE REQUIREMENTS IN THE INTERNATIONAL BUILDING CODE CHAPTER 18.
 - REMOVE ALL ORGANIC MATERIAL AND TOPSOIL FROM AREAS UNDER THE BUILDING OR UNDER PAVED AREAS.
 - FOUNDATIONS SHALL BE BUILT ON UNDISTURBED SOIL OR COMPACTED FILL MATERIAL 12 INCHES OR LESS IN DEPTH. IF PROVIDED, COMPACTED FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8" AND HAVE AN IN-PLACE DRY DENSITY NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D1557. IF THE COMPACTED FILL MATERIAL EXCEEDS 12 INCHES IN DEPTH OR CLSM IS USED, PLACEMENT SHALL COMPLY WITH THE PROVISIONS OF AN APPROVED GEOTECHNICAL INVESTIGATION AND REPORT.
 - THE BOTTOM OF ALL EXTERIOR FOOTINGS AND FOOTINGS SUSCEPTIBLE TO FROST HEAVE SHALL EXTEND A MINIMUM DEPTH BELOW LOWEST ADJACENT FINISHED GRADE OF 18 INCHES.
 - THE EXCAVATION OUTSIDE THE FOUNDATION SHALL BE BACKFILLED WITH SOIL THAT IS FREE OF ORGANIC MATERIAL, CONSTRUCTION DEBRIS, COBBLES AND BOULDERS, OR WITH CLSM. THE BACKFILL SHALL BE PLACED IN LIFTS AND COMPACTED IN A MANNER THAT DOES NOT DAMAGE THE FOUNDATION OR THE WATERPROOFING OR DAMPROOFING MATERIAL, IF PRESENT. CLSM NEED NOT BE COMPACTED.
 - DAMP-PROOFING, WATERPROOFING, AND FOUNDATION DRAINS: COMPLY WITH SECTION 1805 OF THE IBC. DESIGN/SPECIFICATION OF THESE SYSTEMS IS TO BE BY OTHERS.
 - THE SUBGRADE OF SLABS-ON-GRADE SHALL BE STRIPPED, TILLED, AND RE-COMPACTED TO PRODUCE A UNIFORM SURFACE. THE SUBGRADE SHALL BE OVERLAIN WITH 6 INCHES, MINIMUM, OF CLEAN, DENSELY-GRADED, CRUSHER-RUN BASE MATERIAL WITH A BALANCED FINE CONTENT THAT SATISFIES THE REQUIREMENTS OF ASTM D1241, TYPE 1 MIXTURE. GRADATION C. THE BASE MATERIAL SHALL BE COMPACTED TO A DRY DENSITY NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D1557. THE SURFACE OF THE BASE MATERIAL SHALL BE CHOKED OFF WITH SAND OR FINE GRAVEL AND COMPACTED TO PROVIDE A SMOOTH, PLANAR SURFACE FOR THE CONCRETE SLABS-ON-GRADE.
 - PROVIDE A VAPOR RETARDER DIRECTLY AS REQUIRED BY THE ARCHITECT BELOW SLABS-ON-GRADE AND ABOVE THE GRANULAR BASE MATERIAL. THE VAPOR RETARDER SHALL COMPLY WITH ASTM E1745 AND SHALL BE 10 MILS THICK, MINIMUM.

CAST-IN-PLACE CONCRETE:

- CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301. *SPECIFICATION FOR STRUCTURAL CONCRETE*, AND ACI 117, *SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS*, UNLESS NOTED OTHERWISE.
- AVERAGE CONCRETE STRENGTH DETERMINED BY JOB CAST LAB CURED CYLINDER PER ASTM C39 TO BE AS INDICATED BELOW PLUS INCREASE DEPENDING ON THE PLANT'S STANDARD DEVIATION AS SPECIFIED IN ACI 318. MINIMUM CONCRETE PROPERTIES SHALL BE AS FOLLOWS:

CONCRETE PROPERTIES						
USE	FREEZE & THAW EXPOSURE	MIN COMPRESSIVE STRENGTH	TEST AGE DAYS	AIR CONTENT	MAX WATER TO CEMENT RATIO	MAX AGGREGATE SIZE
EXTERIOR FOOTINGS AND WALLS	F2	4,500 PSI	28	6% +/- 1.5%	0.45	1"
EXTERIOR SLABS ON GRADE	F1	3,500 PSI	28	4.5% +/- 1.5%	0.55	1"

- CONCRETE IS EXPOSURE CLASS W0 OR W1, CLASS C0 OR C1 AND CLASS S0 UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS ALONG WITH TEST DATA A MINIMUM OF TWO WEEKS PRIOR TO PLACING CONCRETE. ADDITIONAL WATER SHALL NOT BE ADDED TO THE CONCRETE MIX AT THE JOBSITE UNLESS SPECIFICALLY NOTED IN THE MIX DESIGN.
- CURING OF CONCRETE SHALL COMPLY WITH ACI 308, UNLESS NOTED OTHERWISE.
- WHERE CONCRETE IS PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE CLEANED AND ROUGHENED TO A MINIMUM 1/4" AMPLITUDE.
- PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE CORNERS UNLESS NOTED OTHERWISE.
- CONSTRUCTION JOINT LOCATIONS FOR CONCRETE WORK ARE NOT SHOWN IN THE DRAWINGS. THE CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION OF THE JOINTS.
- PROVIDE TOOLED OR SAW-CUT CONTROL JOINTS OR CONSTRUCTION JOINTS IN SLABS ON GRADE COMPLYING WITH THE FOLLOWING CRITERIA. THE CONTRACTOR SHALL SUBMIT CONTROL JOINT PLAN AT LEAST 7 DAYS PRIOR TO POURING THE SLABS WHERE THE JOINTS ARE NOT EXPLICITLY SPECIFIED BY THE ARCHITECT:
 - JOINT SPACING SHALL NOT EXCEED 30 TIMES THE SLAB THICKNESS
 - ASPECT RATIO OF SLAB PANELS SHALL BE MAXIMUM OF 1.5 TO 1.0; HOWEVER A RATIO OF 1.0 TO 1.0 IS PREFERRED
 - JOINTS SHALL BE CONTINUOUS ACROSS INTERSECTING JOINTS, NOT STAGGERED OR OFFSET
 - JOINTS SHALL EXTEND FROM ISOLATION JOINT AROUND COLUMNS AND WALLS

REINFORCING STEEL:

- REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING PROPERTIES:

REINFORCEMENT STEEL PROPERTIES		
USE	REINFORCEMENT SIZE	SPECIFICATION
GENERAL USE	#7 & SMALLER	ASTM A615, GRADE 60

- REINFORCING STEEL IN BEAMS AND SLABS SHALL BE SUPPORTED ON CONCRETE DOBBIES, OR APPROVED CHAIRS IN SUFFICIENT NUMBERS TO SUPPORT THE BARS WITHOUT SETTLEMENT. FABRICATE AND INSTALL REINFORCING STEEL ACCORDING TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES - ACI STANDARD 315.
- CONTACT LAP ALL REINFORCING BARS PER THE TYPICAL LAP SPLICE LENGTH SCHEDULE, EXCEPT AS NOTED ON DRAWINGS. MECHANICAL SPLICES NOTED ON THE DRAWINGS SHALL BE DAYTON SUPERIOR BAR-LOOK OR APPROVED WITH A CURRENT ICC-ES OR IAPMO-ES EVALUATION REPORT.

GRADE 60 REINFORCING STEEL LAP SPLICE LENGTH AND DEVELOPMENT LENGTH															
BAR SIZE	f _c = 3,000 PSI					f _c = 4,000 PSI					f _c = 5,000 PSI				
	MISC BARS		TOP BARS (SEE NOTE 2)		HOOK BARS	MISC BARS		TOP BARS (SEE NOTE 2)		HOOK BARS	MISC BARS		TOP BARS (SEE NOTE 3)		HOOK BARS
	Ld	LAP	Ld	LAP	Ldh	Ld	LAP	Ld	LAP	Ldh	Ld	LAP	Ld	LAP	Ldh
#3	17	22	22	28	9	15	19	29	25	8	13	17	17	22	7
#4	22	29	29	38	11	19	25	25	33	10	17	23	23	29	9
#5	28	36	36	47	14	24	31	31	41	12	22	28	28	36	11
#6	33	43	43	56	17	29	37	37	49	15	26	34	34	44	13

- ALL TABULATED VALUES ARE IN INCHES. FOR GRADE 60, UNCOATED REINFORING, NORMAL WEIGHT CONCRETE WITH CLEAR SPACING AND CLEAR COVER GREATER THAN THE BAR DIAMETER.
- IT SHALL BE PERMITTED TO INTERPOLATE BETWEEN CONCRETE STRENGTHS OR USE THE NEXT LOWER CONCRETE STRENGTH.
- TOP BARS ARE ANY HORIZ BAR PLACED SUCH THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZ WALL BARS ARE CONSIDERED TOP BARS.
- LAP SPLICES ARE FOR NON-LATERAL LOAD RESISTING ELEMENTS. FOR REBAR LAPS SPLICES AT LATERAL LOAD RESISTING ELEMENTS, REFERENCE PLANS AND ELEVATIONS.
- Ld = DEVELOPMENT LENGTH IN TENSION OF DEFORMED BAR
Ldh = DEVELOPMENT LENGTH IN TENSION OF DEFORMED BAR OR DEFORMED WIRE WITH A STANDARD HOOK
LAP = LAP SPLICE LENGTH OF DEFORMED BAR OR DEFORMED WIRE

- REINFORCING STEEL SHALL BE PROTECTED BY PLACING BARS WITH A MINIMUM COVER, UNLESS NOTED OTHERWISE.

REINFORCING STEEL CONCRETE COVER	
USE	CLEAR COVER
SLABS	3/4"
BEAMS AND COLUMNS	1-1/2" (TO STIRRUPS OR TIES)
CONCRETE CAST AGAINST EARTH	3"
CONCRETE EXPOSED TO WEATHER OR EARTH	1-1/2" (FOR #5 OR SMALLER), 2" (FOR #6 AND LARGER)

- PROVIDE DOWELS FROM FOOTINGS TO MATCH ALL VERTICAL WALL, PILASTER AND COLUMN REINFORCING. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING IN WALLS AND FOOTINGS AT ALL CORNERS AND INTERSECTIONS. CONTINUE HORIZONTAL WALL BARS THROUGH PILASTERS, COLUMNS AND INTERSECTING WALLS.

CONCRETE CONNECTORS:

- UNLESS A SPECIFIC ANCHOR PRODUCT IS NOTED IN THE DRAWINGS, POST-INSTALLED ANCHORS MAY USE ONE OF THE ANCHORS LISTED BELOW FOR THE REQUIRED TYPE.

POST INSTALLED CONCRETE ANCHORS		
TYPE	PRODUCT	REPORT #
ADHESIVE ANCHORS & DOWELS	SIMPSON SET-3G	ICC-ES ESR-4057
	SIMPSON AT-3G	ICC-ES ESR-5026
	HILTI HIT-RE 500 V3	ICC-ES ESR-3814
EXPANSION ANCHOR	SIMPSON STRONG-BOLT 2	ICC-ES ESR-3037
	HILTI KWIK BOLT TZ2	ICC-ES ESR-4268
SCREW ANCHOR	SIMPSON TITEN HD	ICC-ES ESR-2713
	HILTI KWIK HUS-EZ	ICC-ES ESR-3027

- ALL ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND PRODUCT EVALUATION REPORTS.
- EMBEDMENTS SPECIFIED ON DRAWINGS ARE "EFFECTIVE" EMBEDMENTS. REFERENCE MANUFACTURER LITERATURE FOR CORRESPONDING ACTUAL EMBEDMENT DEPTHS.
- ANCHORS RODS EXPOSED TO EARTH OR WEATHER SHALL BE PROTECTED FROM CORROSION BY HOT-DIP GALVANIZING OR USE OF STAINLESS STEEL. POST INSTALLED EXPANSION AND SCREW ANCHORS EXPOSED TO EARTH OR WEATHER SHALL BE STAINLESS STEEL.
- FOR POST-INSTALLED ANCHORS, LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED.
- IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF (2) ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MANY NOT BE SHIFTED AS NOTED ABOVE, SEEK GUIDANCE FROM THE STRUCTURAL ENGINEER OF RECORD.
- SPECIAL INSPECTION OF ANCHOR INSTALLATION IS REQUIRED UNLESS SPECIFICALLY NOTED OTHERWISE IN DRAWINGS. SEE SPECIAL INSPECTION AND MATERIALS TESTING PROGRAM AND NOTES.
- ALL ANCHOR BOLTS, HOLDDOWNS AND OTHER REQUIRED ACCESSORIES SHALL BE SECURED IN PLACE PRIOR TO INSPECTION AND CONCRETE PLACEMENT. DO NOT STAB THE ABOVE LISTED ITEMS INTO FRESH CONCRETE AFTER PLACEMENT. PROPERLY VIBRATE AROUND INSTALLED ITEMS TO ENSURE PROPER CONSOLIDATION OF CONCRETE.

REINFORCED CONCRETE MASONRY:

- MINIMUM COMPRESSIVE STRENGTH OF MASONRY, f_m, SHALL BE 2000 PSI AT 28 DAYS AS VERIFIED BY THE UNIT STRENGTH OR PRISM TEST METHOD. WHERE PRISM TEST METHOD IS UTILIZED IN LIEU OF THE UNIT STRENGTH METHOD, TESTING SHALL CONFORM TO IBC SECTION 2105 BEFORE AND DURING CONSTRUCTION.

- WHERE THE UNIT STRENGTH METHOD IS UTILIZED TO COMPLY WITH THE REQUIRED f_m, CONCRETE MASONRY UNITS, MORTAR, AND GROUT STRENGTH SHALL COMPLY WITH THE TABLE BELOW.

CONCRETE MASONRY ASSEMBLY STRENGTH			
f _m [PSI]	BLOCK UNIT STRENGTH [PSI]	MORTAR	GROUT STRENGTH [PSI]
2,000	2,000	TYPE M OR S	2,000

- CONCRETE MASONRY UNITS:**
 - CONCRETE MASONRY UNITS TO BE MEDIUM WEIGHT AND SHALL COMPLY WITH ASTM C90, SAMPLED AND TESTED IN ACCORDANCE WITH ASTM C140. LINEAL SHRINKAGE FOR UNITS SHALL NOT EXCEED 0.065%. BLOCK UNIT STRENGTH SHALL BE BASED ON AVERAGE NET AREA.
- MORTAR:**
 - WHEN USING THE UNIT STRENGTH METHOD, MORTAR SHALL BE OF THE TYPE INDICATED IN THE "CONCRETE MASONRY ASSEMBLY STRENGTH" TABLE AND SHALL CONFORM TO ASTM C270. THE MORTAR MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 1,800 PSI FOR TYPE S AND 2,500 PSI FOR TYPE M. MORTAR PROJECTIONS INTO CELLS TO BE GROUTED SHALL BE LIMITED TO 3/8" MAXIMUM.
- MASONRY GROUT:**
 - WHEN USING THE UNIT STRENGTH METHOD, GROUT SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH AS INDICATED IN THE "CONCRETE MASONRY ASSEMBLY STRENGTH" TABLE AND CONFORM TO ASTM C476. GROUT SHALL CONSIST OF A MIXTURE OF CEMENTITIOUS MATERIALS, AGGREGATE AND A FLUIDIFIER ADMIXTURE, INTRUSION AID BY SPECRETE-IP OR APPROVED EQUAL. ADMIXTURE DOSAGE TO BE IN STRICT COMPLIANCE WITH MANUFACTURERS RECOMMENDATIONS.
 - FULLY GROUT ALL STRUCTURAL MASONRY WALLS UNLESS NOTED OTHERWISE.
- WALLS SHALL BE REINFORCED AS SHOWN ON THE PLANS AND DETAILS AND, IF NOT SHOWN, SHALL BE AS NOTED UNDER "MASONRY REINFORCING STEEL".
- CONCRETE SURFACES ABUTTING STRUCTURAL MASONRY STARTER COURSES SHALL BE CLEANED AND ROUGHENED TO A FULL 1/4" AMPLITUDE.
- REFER TO THE TYPICAL MASONRY DETAILS FOR CONTROL JOINT CONSTRUCTION REQUIREMENTS. WHERE CONTROL JOINTS ARE NOT INDICATED IN THE DRAWINGS, THEY SHALL BE LOCATED AT THE FOLLOWING LOCATIONS AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION:
 - AT CONTINUOUS WALLS: VERTICAL JOINTS AT 1.5 TIMES THE WALL HEIGHT OR 25 FT MAXIMUM
 - AT CORNERS AND WALL INTERSECTIONS: FIRST JOINT FROM THE CORNER AT 1.25 TIMES THE WALL HEIGHT OR 16 FT MAXIMUM.
 - AT CHANGES IN WALL HEIGHT OR WALL THICKNESS.

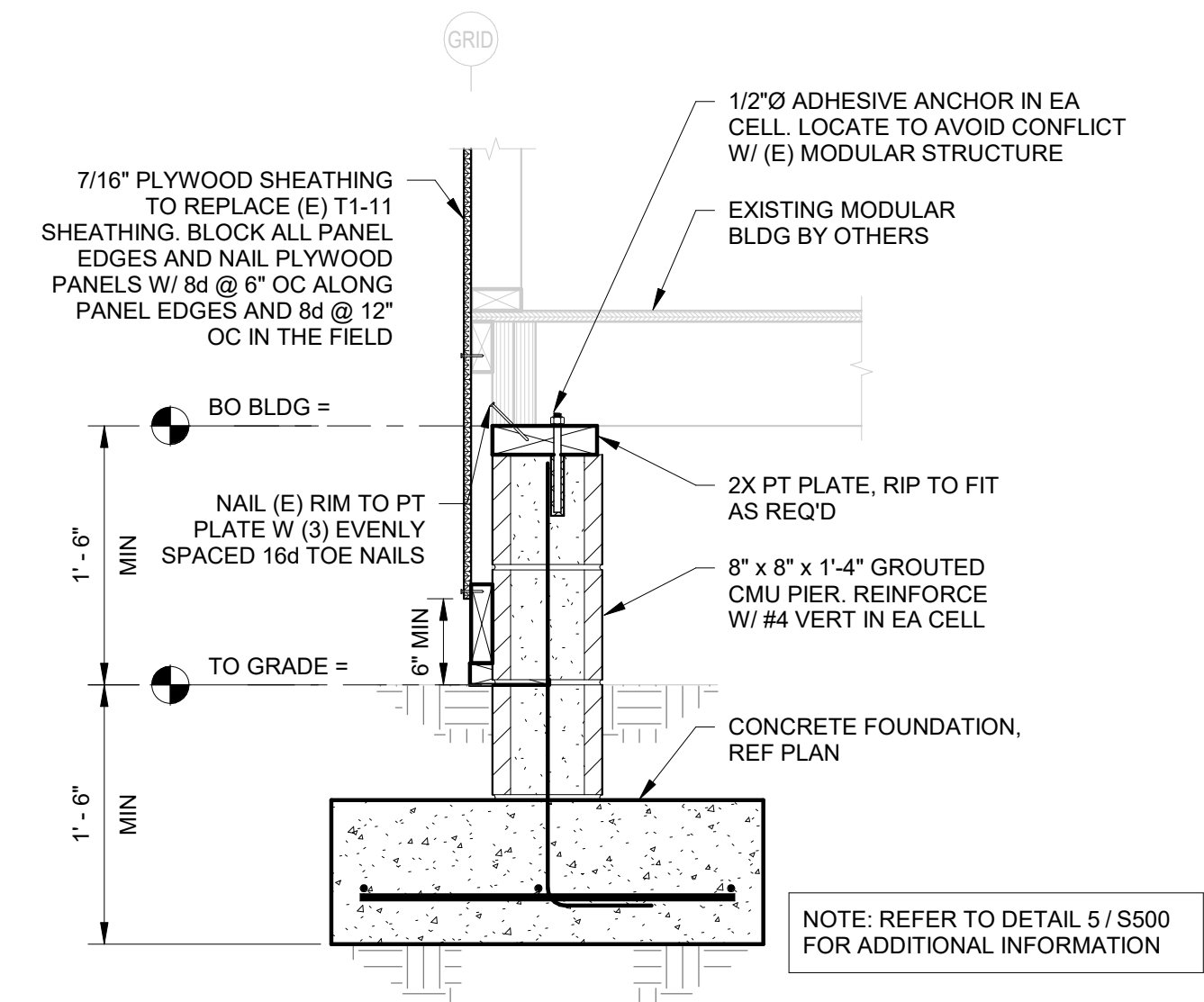
MASONRY REINFORCING STEEL:

- REINFORCING FOR MASONRY SHALL CONFORM TO ASTM A615, GRADE 60. WELDED REINFORCEMENT SHALL CONFORM TO ASTM A706 GRADE 60. REINFORCING SHALL BE SECURELY PLACED IN ACCORDANCE WITH ACI 530 SECTION 3.4. UNLESS NOTED OTHERWISE ON THE PLANS, THE MINIMUM WALL REINFORCING SHALL BE AS FOLLOWS:
 - VERTICAL: (1) #5 AT 48" O.C. IN 8" WALLS, (2) #4 AT 48" O.C. IN 10"/12" WALLS.
 - HORIZONTAL: (2) #4 AT 48" O.C. FOR RUNNING BOND, (2) #4 AT 24" O.C. FOR STACKED BOND.
 - PROVIDE CORNER REINFORCING BARS EQUAL TO THE SIZE & SPACING OF HORIZONTAL REINFORCING AT ALL CORNERS AND INTERSECTIONS. LAP BARS AS NOTED IN NOTE 3 UNLESS OTHERWISE NOTED IN THE DETAILS.
- FABRICATE AND INSTALL REINFORCING STEEL IN ACCORDANCE WITH CONCRETE REINFORCING STEEL INSTITUTE MANUAL OF STANDARD PRACTICE. SHOP DRAWINGS SHALL INCLUDE ELEVATIONS OF ALL STRUCTURAL CONCRETE MASONRY WALLS SHOWING LOCATIONS OF BOND BEAMS, REINFORCING BARS, AND OTHER SPECIAL REINFORCEMENT.
- SPLICES IN VERTICAL WALL REINFORCING CONTAINING (2) OR MORE BARS SHALL BE LAPPED 62 BAR DIAMETERS. FOR OTHER SPLICES A 52 BAR DIAMETER LAP MAY BE USED. STAGGER LAPS 6'-0" MIN. WHERE (2) SETS OF BARS ARE UTILIZED.
- BOND BEAMS WITH TWO #4 BARS HORIZONTALLY SHALL OCCUR AT EACH INTERMEDIATE FLOOR OR ROOF LEVEL AND AT TOP OF WALLS WHERE WALLS EXTEND ABOVE THE ROOF. STEP BOND BEAMS AS REQUIRED TO MATCH ROOF SLOPES. PROVIDE A BOND BEAM WITH TWO #4 BARS HORIZONTALLY ABOVE AND BELOW ALL OPENINGS, AND EXTEND 2'-6" PAST THE OPENING AT EACH SIDE. PROVIDE (2) #5 EXTENDING THE FULL LEVEL HEIGHT AT EACH SIDE OF OPENINGS AND AT WALL ENDS UNLESS NOTED OTHERWISE.
- FOUNDATION DOWELS SHALL BE PROVIDED TO MATCH SIZE AND SPACING OF WALL REINFORCING AND BE DEVELOPED IN THE MASONRY AND CONCRETE.
- COVER AND CLEARANCE:**
 - CLEAR DISTANCE BETWEEN PARALLEL BARS AND LAP SPLICED BARS (LEAST OF):
 - BAR DIAMETER
 - 1" AT 8" AND SMALLER BLOCK
 - 2" AT 10" BLOCK
 - 3" AT 12" BLOCK
 - CLEAR SPACE BETWEEN BLOCK AND REINFORCING:
 - 1/4" AT FINE GROUT
 - 1/2" AT COARSE GROUT
 - COVER (OUTSIDE FACE OF BLOCK TO OUTSIDE OF REINFORCING)
 - 1 1/2" FOR #3, #4 AND #5
 - 2" FOR #6 AND LARGER

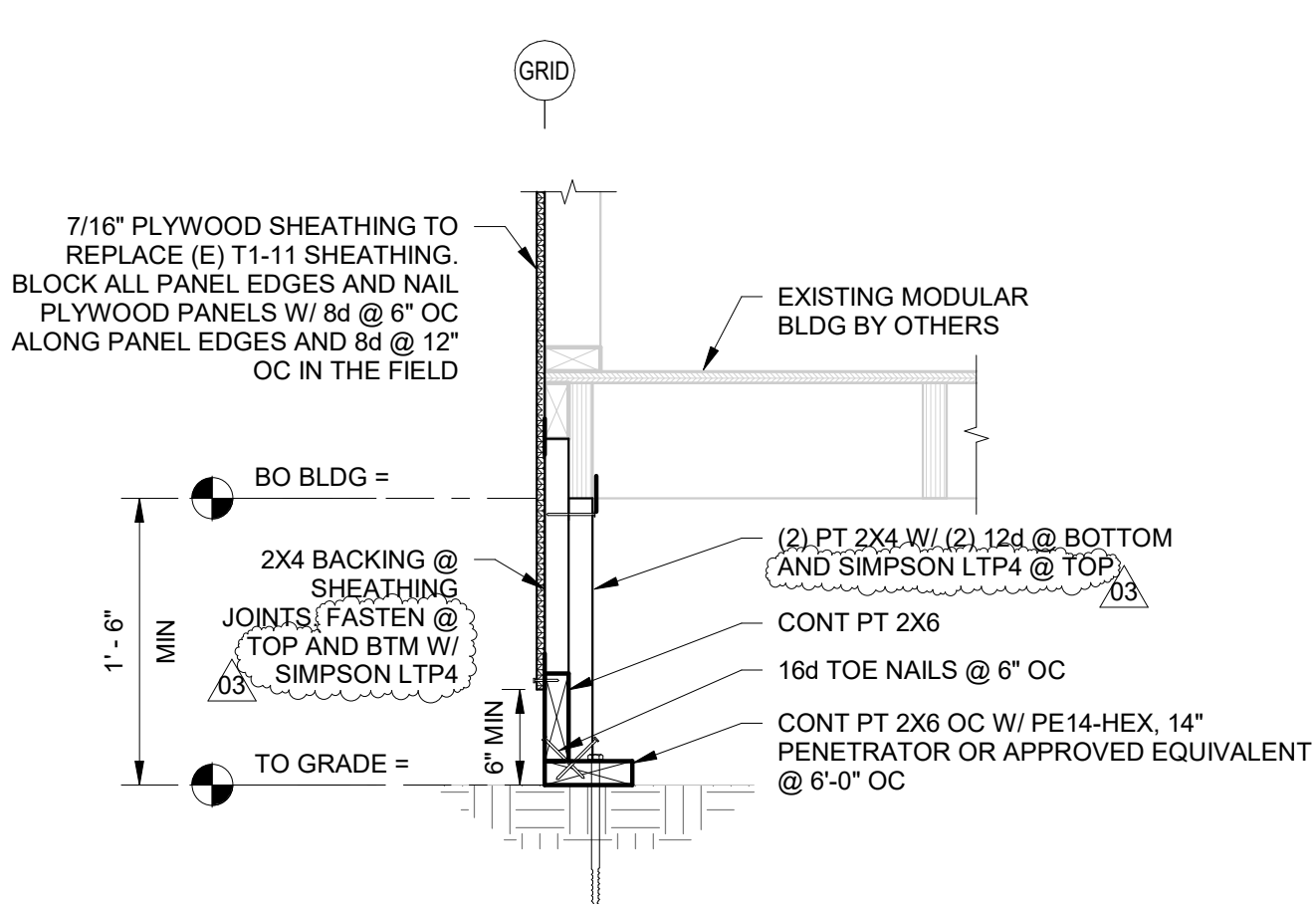
MASONRY CONNECTORS:

- HEADED STEEL STUD CONNECTORS SHALL BE NELSON GRANULAR FLUX-FILLED HEADED STUDS OR PRIOR APPROVED EQUAL AND BE MANUFACTURED FROM ASTM A29-12 / A108, GRADES 1010-1020 COLD ROLLED CARBON STEEL WITH A MINIMUM TENSILE STRENGTH OF 60,000 PSI. DEFORMED BAR ANCHORS SHALL BE NELSON, TYPE D2L OR APPROVED EQUAL. STUDS AND DEFORMED BAR TO BE AUTOMATICALLY END WELDED WITH A STUD WELDING GUN. ALTERNATE WELDING PROCEDURES MAY BE USED ONLY WITH PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANCHOR BOLTS SHALL BE A307.
- UNLESS A SPECIFIC ANCHOR PRODUCT IS NOTED IN THE DRAWINGS, POST-INSTALLED ANCHORS MAY USE ONE OF THE ANCHORS LISTED BELOW FOR THE REQUIRED TYPE.

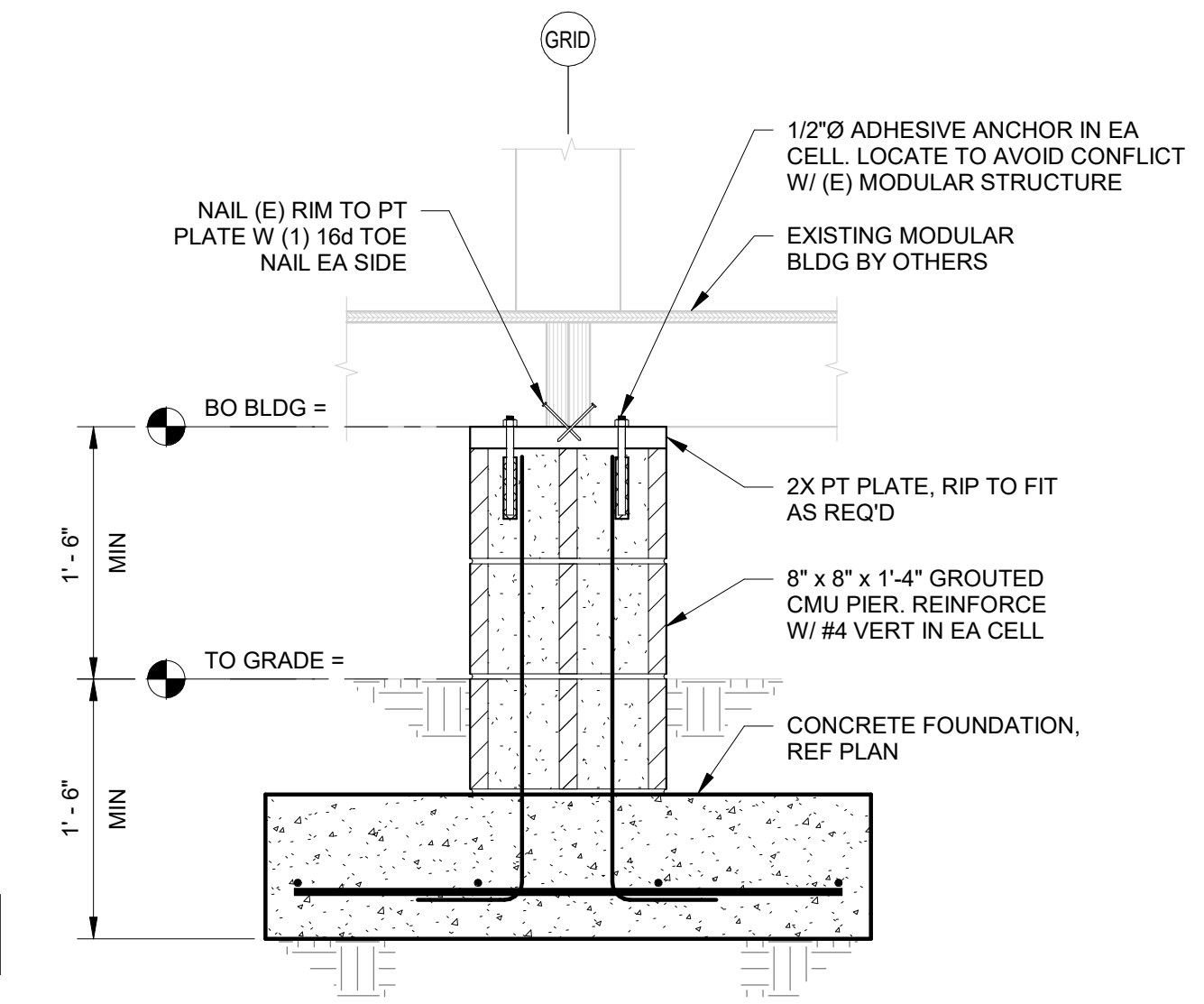
POST INSTALLED MASONRY ANCHORS		
TYPE	PRODUCT	REPORT #
ADHESIVE ANCHORS & DOWELS	SIMPSON SET-3G	ICC-ES ESR-4844
	HILTI HIT-HY 270	ICC-ES ESR-4143
EXPANSION ANCHOR	SIMPSON STRONG-BOLT 2	IAPMO UES ER



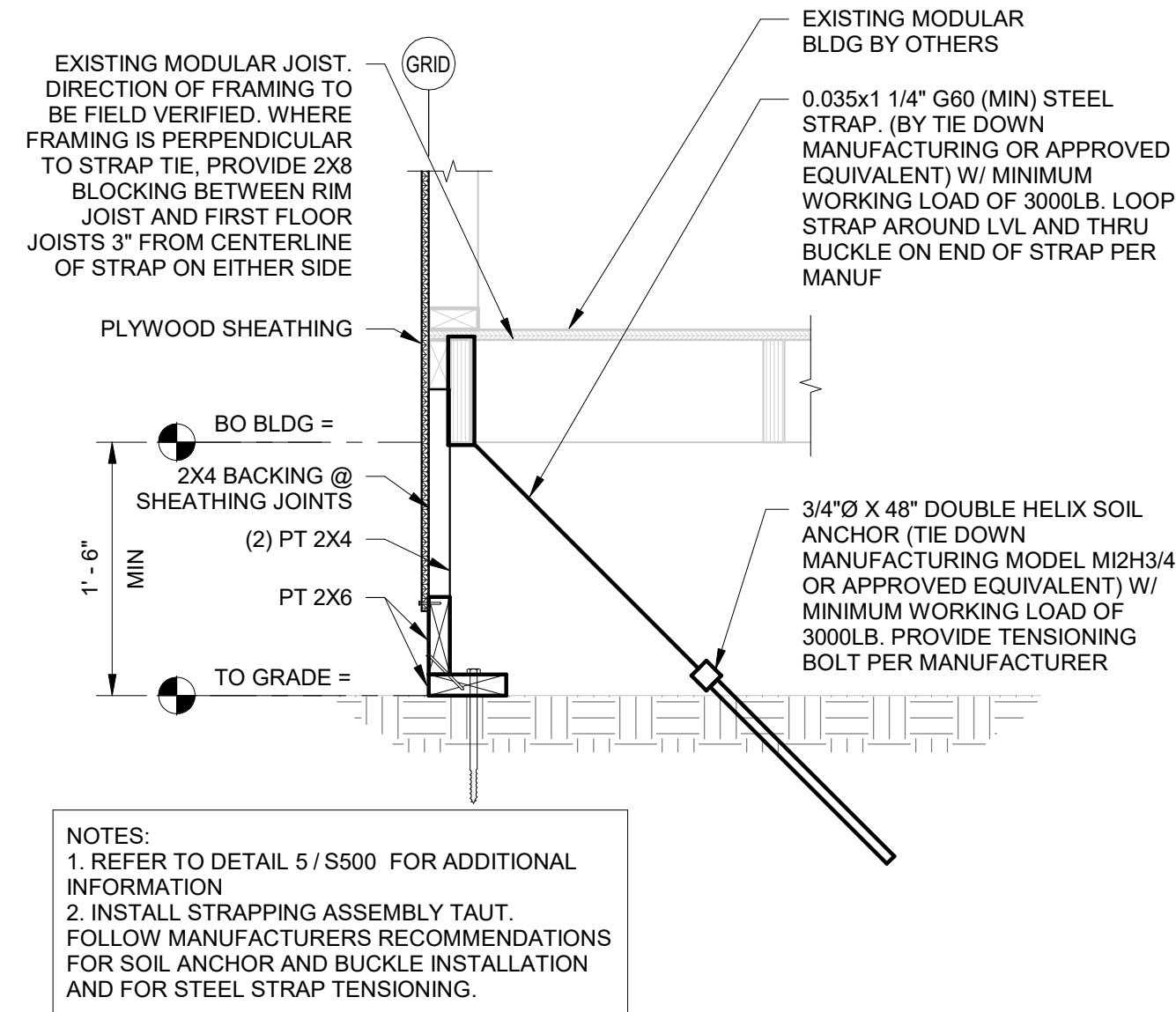
1 FDN AT GRID B-1 & B-3 AND GRIDS A & C
1" = 1'-0"



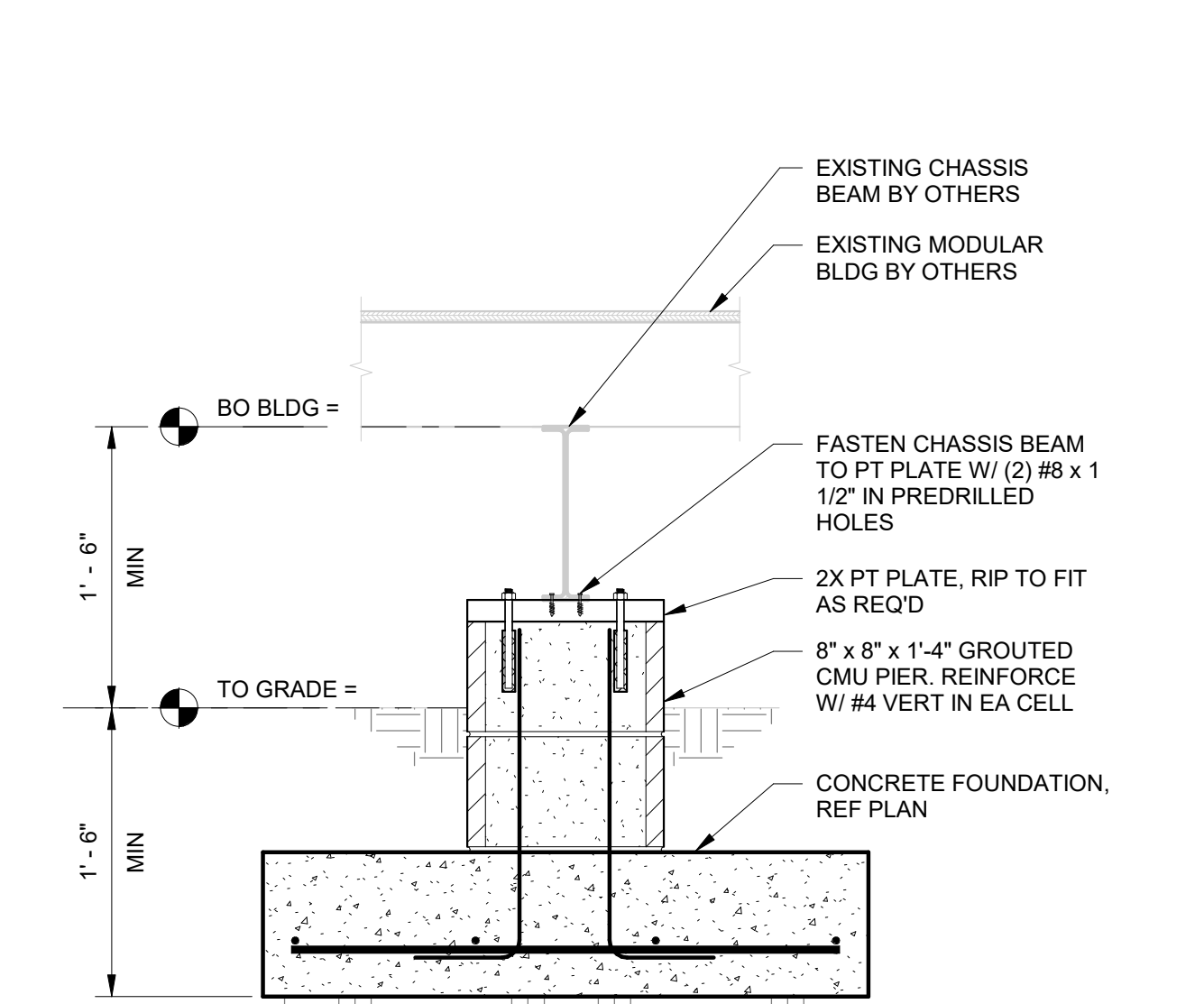
5 TYPICAL EDGE DETAIL
1" = 1'-0"



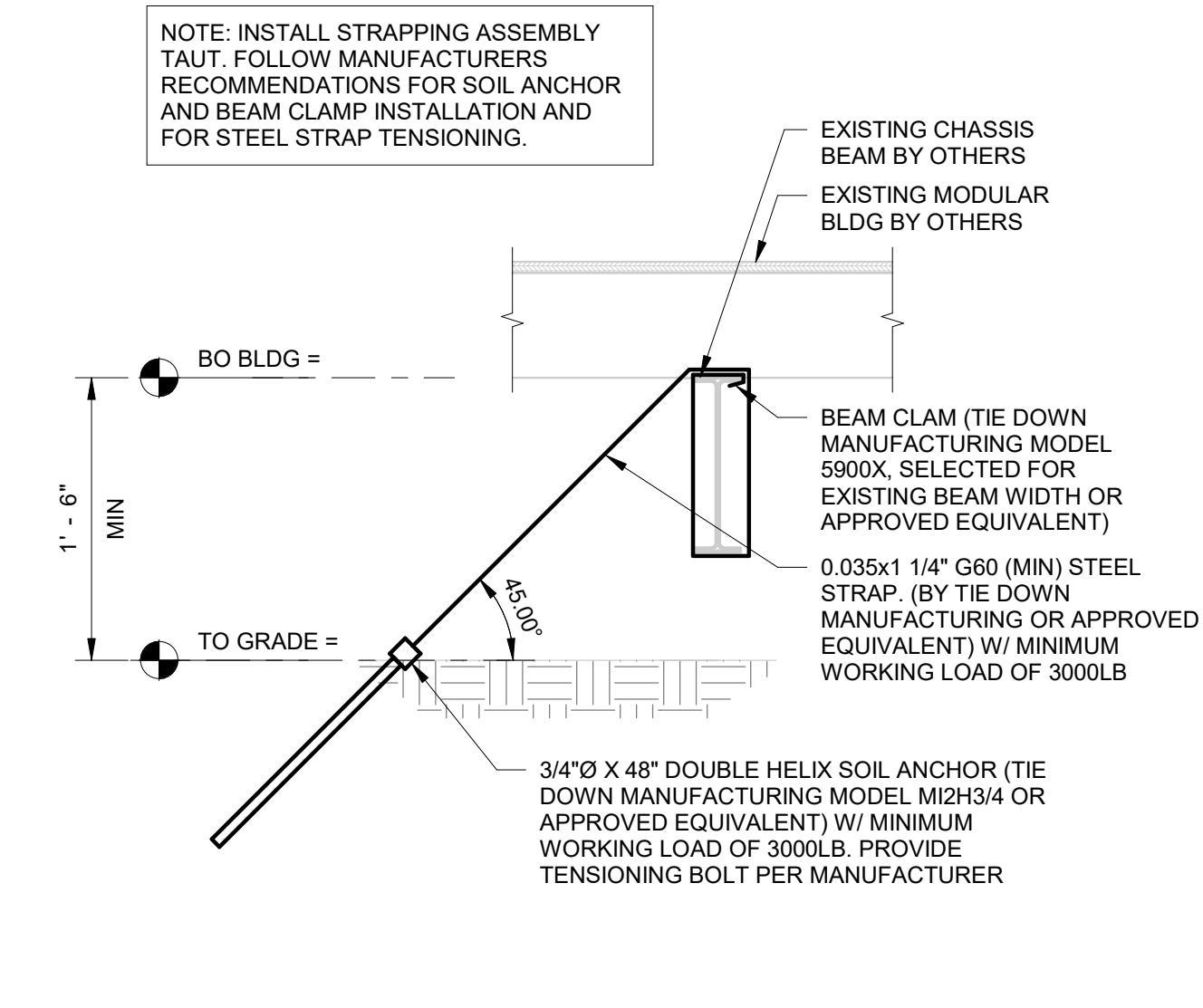
2 FDN AT GRID B
1" = 1'-0"



6 TYPICAL PERIMETER STRAPPING INSTALLATION
1" = 1'-0"



3 FDN AT M12 CHASSIS BEAM
1" = 1'-0"



4 TYPICAL STRAPPING INSTALLATION
1" = 1'-0"

ICT ABBREVIATIONS LEGEND

AFC	ABOVE FINISHED CEILING	MMF	MULTI-MODE FIBER
ACT	ACOUSTICAL CEILING TILE	MUTOA	MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY
AFF	ABOVE FINISHED FLOOR		
AFG	ABOVE FINISHED GRADE	(N)	NEW
AHJ	AUTHORITY HAVING JURISDICTION	NEC	NATIONAL ELECTRIC CODE
AP	ACCESS POINT (WIRELESS, TYP.)	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AV	AUDIO-VISUAL	NIC	NOT IN CONTRACT
AWG	AMERICAN WIRE GAUGE	NTS	NOT TO SCALE
BAS	BUILDING AUTOMATION SYSTEM	O.C.	ON CENTER
C.	CONDUIT	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CAT	CATEGORY		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	OFOI	OWNER FURNISHED, OWNER INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED	OH	OVERHEAD
CMP	COMMUNICATIONS PLENUM (RATED)	OSP	OUTSIDE PLANT CABLE
CMR	COMMUNICATIONS RISER (RATED)	PB	PULLBOX
CU	COPPER	PBB	PRIMARY BONDING BUSBAR
(D)	DEMOLISHED	PEX	PRESS TO EXIT
DIM	DIMENSION	PoE	POWER OVER ETHERNET
DMARC	DEMARCATIION	PP	PATCH PANEL
DPS	DOOR POSITION SWITCH	QEL	QUIET ELECTRIFIED LATCH
(E), EX.	EXISTING	QTY	QUANTITY
EA	EACH	REQ	REQUIREMENT
EC	ELECTRICAL CONTRACTOR (DIV 26)	RM	ROOM
EF	ENTRANCE FACILITY	REX	REQUEST TO EXIT
E.L.	ELECTRIFIED LATCH	SBB	SECONDARY BONDING BUSBAR
EMT	ELECTRICAL METALLIC TUBING	SMF	SINGLE-MODE FIBER
EPT	ELECTRIC POWER TRANSFER	SP	SERVICE PROVIDER
ER	EQUIPMENT ROOM	SPEC	SPECIFICATION
FACP	FIRE ALARM CONTROL PANEL	STP	SHIELDED TWISTED PAIR
FLR	FLOOR	TR	TELECOM ROOM
GND	GROUND	TTB	TELEPHONE TERMINAL BOARD
HT	HEIGHT/HIGH	TYP	TYPICAL
I/O	INDOOR/OUTDOOR	UG	UNDERGROUND
ICT	INFORMATION AND COMMUNICATIONS TECHNOLOGY	UPS	UNINTERRUPTIBLE POWER SUPPLY
IDS	INTRUSION DETECTION SYSTEM	UNO	UNLESS NOTED OTHERWISE
IMC	INTERMEDIATE METAL CONDUIT	UTP	UNSHIELDED TWISTED PAIR
ISP	INTERNET SERVICE PROVIDER	VIF	VERIFY IN FIELD
J-BOX	JUNCTION BOX	W/	WITH
MDF	MAIN DISTRIBUTION FRAME	W/O	WITHOUT
MFR	MANUFACTURER	WAO	WORK AREA OUTLET
MH	MAINTENANCE HOLE	WAP	WIRELESS ACCESS POINT
MIN	MINIMUM	WP	WEATHERPROOF

CABLE ROUTING LEGEND

	BACKBONE CABLE PATHWAY
	BELOW GRADE
	CONDUIT OR CONDUIT SLEEVE. EMT, UNO.
	LADDER RACK OR CABLE TRAY, SEE PLANS FOR ADDITIONAL INFORMATION.
	VERTICAL TRANSITION BETWEEN FLOORS OR GRADE
	HORIZONTAL TRANSITION BETWEEN SHEETS AND/OR DETAILS
	JUNCTION BOX. SEE PLANS FOR SIZING INFORMATION.

ICT SHEET INDEX

NUMBER	SHEET NAME
T-001	ICT SYMBOLS AND ABBREVIATIONS
T-100	ICT SITE PLAN
T-501	ICT DETAILS

ABBREVIATIONS AND SYMBOLS
GENERAL NOTES

- A. THE ABBREVIATIONS ON THIS SHEET COMPRISE A STANDARD LIST; NOT ALL ABBREVIATIONS APPEAR ON THIS PROJECT.
- B. THE SYMBOLS ON THIS SHEET COMPRISE A STANDARD LIST; NOT ALL SYMBOLS APPEAR ON THIS PROJECT.
- C. ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE. MOUNTING HEIGHTS INDICATED ON ARCHITECTURAL WALL ELEVATIONS OR AS NOTED SPECIFICALLY ON THE DRAWINGS OR IN THE SPECIFICATIONS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS LISTED.

ICT PROJECT GENERAL NOTES

1. THIS PROJECT IS TO CONFORM TO THE LATEST LOCALLY ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE AND THE LATEST REVISION OF:
ANSI/TIA-526-7-A, Measurement of Optical Power Loss of Installed Single-Mode Fiber Cable Plant, and its published addenda.
ANSI/TIA-526-14-C, Measurement of Optical Power Loss of Installed Multimode Fiber Cable Plant, and its published addenda.
ANSI/TIA-568 2-E, Generic Telecommunications Cabling for Customer Premises, and its published addenda.
ANSI/TIA-568 1-E, Commercial Building Telecommunications Infrastructure Standard, and its published addenda.
ANSI/TIA-568 2-E, Balanced Twisted-Pair Telecommunications Cabling and Components Standard, and its published addenda.
ANSI/TIA-568 3-E, Optical Fiber Cabling and Components Standard, and its published addenda.
ANSI/TIA-569-E, Telecommunications Pathways and Spaces, and its published addenda
ANSI/TIA-569-D Optical Fiber Cable Color Coding
ANSI/TIA-606-D, Administration Standard for Telecommunications Infrastructure, and its published addenda
ANSI/TIA-607-D, Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises, and its published addenda.
ANSI/TIA-758-C, Customer Owned Outside-Plant Telecommunications Infrastructure Standard, and its published addenda.
2. SEE SPECIFICATIONS FOR ADDITIONAL CONTRACTOR QUALIFICATIONS, PRODUCT INSTALLATION, AND QUALITY REQUIREMENTS.
3. ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD AND ANY DEVIATIONS CAUSING CHANGES EXCEEDING 6 INCHES TO THE INTENDED LOCATION OF MAJOR TELECOMMUNICATIONS INFRASTRUCTURE COMPONENTS MUST BE COORDINATED WITH THE ARCHITECT AND DESIGNER PRIOR TO INSTALLATION.
4. ALL ICT DEVICES SHALL BE SECURELY MOUNTED PLUMB AND STRAIGHT TO WALLS, FLOORS, OR RACKS, PER THE MANUFACTURER'S RECOMMENDED MOUNTING PRACTICE, UNLESS OTHERWISE INDICATED IN THE ICT DRAWINGS.
5. ALL CABLES SHALL BE RATED FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.
6. INSTALL FIRESTOP ASSEMBLIES IN ALL THROUGH-SLAB AND THROUGH-WALL PENETRATIONS FOR THE INSTALLATION OF ICT CABLING AS REQUIRED TO MAINTAIN FIRE RATING OF PENETRATED SLAB OR WALL. REVIEW DRAWINGS FOR PARTITION TYPE RATINGS. FIRESTOPPING SYSTEMS USED FOR ALL PENETRATIONS SHALL BE A UL LISTED ASSEMBLY AND APPROVED BY APPLICABLE AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION.
7. THE METHOD OF INSTALLATION FOR ALL ICT RELATED BACK BOXES IN WALLS AND THE METHOD FOR PASSAGE OF CONDUIT AND WIREWAYS THROUGH ACOUSTICALLY SENSITIVE WALLS SHALL BE COORDINATED WITH THE ACOUSTICAL CONSULTANT OR OWNER PRIOR TO INSTALLATION.
8. BOND ALL CONDUITS, CABLE TRAYS, AND JUNCTION BOXES PER ANSI/TIA-607-D IN ADDITION TO ANY APPLICABLE CODE REQUIREMENTS.
9. ALL ICT RELATED FLOOR BOXES, POKE THRU DEVICES, JUNCTION BOXES AND BACK BOXES SHOULD BE PROVIDED WITH AN EMPTY CONDUIT TO THE APPLICABLE TELECOMMUNICATIONS ROOM, CABLE TRAY PATHWAY OR PULL BOX. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILS.
10. CONDUIT ROUTES ON THE ICT DRAWINGS SHOW ONLY INTERCONNECTION BETWEEN THE TERMINATION POINTS AND APPROXIMATE ROUTES. THE EXACT ROUTE OF CONDUIT AND CABLE PATHWAYS ARE DETERMINED BY FIELD CONDITIONS AND VERIFIED BY INSTALLING CONTRACTOR.
11. NOTIFY THE DESIGNER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE "I" (ICT) DRAWINGS. OBTAIN CLARIFICATION BEFORE PROCEEDING WITH WORK.
12. ALL PATHWAY AND RACEWAY INCLUDING CONDUIT SLEEVES, FLOOR BOXES, OUTLET BOXES AND CONDUIT BY ELECTRICAL UNO.
13. ALL CABLES SHALL BE SUPPORTED EVERY 48" O.C. MAX. BY J-HOOKS, CABLE TRAY, OR IN CONDUIT.
14. ALL CABLES RUN IN CONDUIT UNDER SLAB SHALL BE INDOOR/OUTDOOR RATED CATEGORY 6A.
15. CABLE GAUGE AND NUMBER OF CONDUCTORS ARE SHOWN IN THE FORMAT: AWG# (EX. 16/2 = 16 AWG / 2 CONDUCTOR)
16. CALL 811 PRIOR TO PERFORMING ANY EXCAVATION.



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REDMOND SCHOOL DISTRICT
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REDMOND, OREGON 97756

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CHECKED:	PJW
PRINT DATE:	02.02.2026
ISSUANCE LOG:	
PERMIT & BID SET	02/02/26

SHEET:

ICT SYMBOLS AND ABBREVIATIONS

T-001

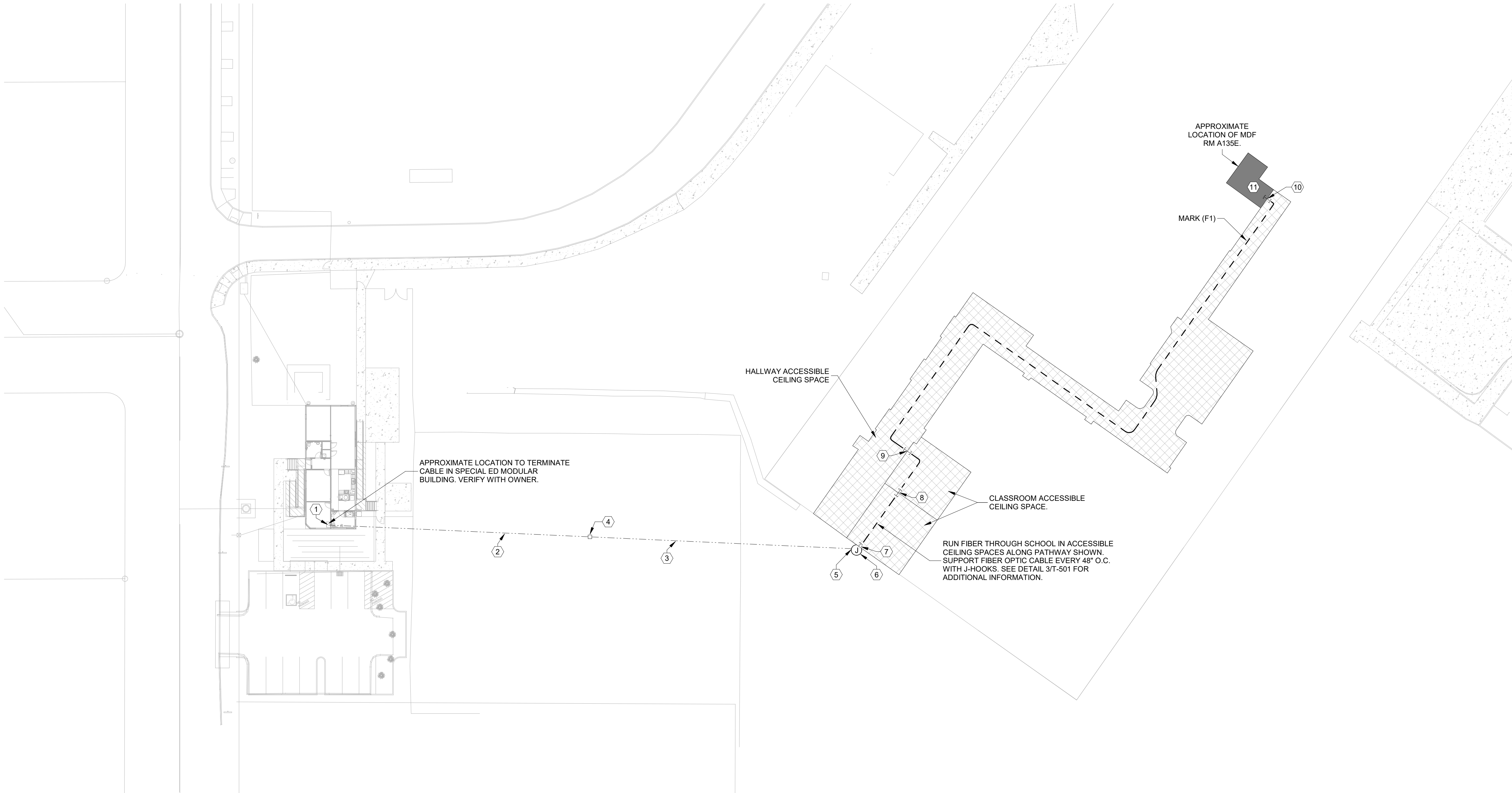
T - FIBER OPTIC BACKBONE SCHEDULE			
MARK	CABLE TYPE	SOURCE	DESTINATION
(F1)	12-STRAND OS2 FIBER OPTIC CABLE	MDF RM A135E	SPECIAL ED MODULAR BUILDING

KEY NOTES:

1. STUB CONDUIT +4" AFF INTO SPECIAL ED MODULAR BUILDING.
2. TRENCH 2" SCHEDULE 40 PVC CONDUIT BETWEEN SPECIAL ED MODULAR BUILDING AND COMMUNICATIONS HANDHOLE.
3. TRENCH 2" SCHEDULE 40 PVC CONDUIT BETWEEN COMMUNICATIONS HANDHOLE AND JUNCTION BOX ON REDMOND HIGH SCHOOL.
4. PROVIDE COMMUNICATIONS HANDHOLE APPROXIMATELY EQUIDISTANT FROM EACH BUILDING. SEE DETAIL 1/T-501 FOR ADDITIONAL INFORMATION.
5. ROUTE CONDUIT UP BUILDING EXTERIOR TO JUNCTION BOX.
6. 12" x 12" x 8" NEMA 3R JUNCTION BOX. BOTTOM OF JUNCTION BOX TO BE MOUNTED AT +10'-6" AFG.
7. 2" EMT CONDUIT SLEEVE BETWEEN JUNCTION BOX AND CLASSROOM CEILING SPACE. APPROXIMATE LOCATION SHOWN. WEATHER PROOF EXTERIOR BUILDING PENETRATION OF CONDUIT SLEEVE.
8. PROVIDE 2" EMT CONDUIT SLEEVE +6" AFC BETWEEN CLASSROOMS. APPROXIMATE LOCATION SHOWN.
9. PROVIDE 2" EMT CONDUIT SLEEVE +6" AFC BETWEEN CLASSROOM AND HALLWAY. APPROXIMATE LOCATION SHOWN.
10. PROVIDE 2" EMT CONDUIT SLEEVE +6" AFC BETWEEN HALLWAY AND MDF. APPROXIMATE LOCATION SHOWN.
11. COORDINATE FIBER TERMINATION POINT WITH REDMOND SCHOOL DISTRICT IT STAFF.

GENERAL ICT SITE NOTES

- A. IT IS ABSOLUTELY NECESSARY FOR ALL TRADES INVOLVED TO COORDINATE WITH EACH OTHER.
- B. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING OF FLOORS, WALLS, CEILINGS, AND ROOFS TO PERFORM THE REQUIRED WORK DEPICTED IN THESE DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PATCHING OF HOLES TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.
- C. ALL CONDUIT ENDS SHALL BE FURNISHED WITH PLASTIC BUSHINGS FOR CABLE PROTECTION.
- D. PROVIDE PULL STRINGS FOR ALL CONDUITS INSTALLED GREATER THAN 10'.
- E. LINES SHOWN ON THE PLAN FROM ICT BASED DEVICES TO THE BUILDING REPRESENT THE PROPOSED ROUTING PATH FOR PATHWAYS. CONTRACTOR SHALL SELECT BEST PATH WHEN ROUTING FOR THE LEAST IMPACT ON SITE OR BUILDING.
- F. PRIOR TO ANY TRENCHING, CONTACT 811 'CALL BEFORE YOU DIG' AND COORDINATE WITH OWNER AND UTILITIES TO LOCATE ALL BURIED POWER, COMMUNICATIONS, GAS, WATER, SEWER, IRRIGATION PIPING, ETC. FROM THIS INFORMATION, ESTABLISH THE BEST ROUTING AND PLAN FOR AREAS THAT WILL REQUIRE HAND DIGGING.
- G. ALL PATHWAYS ON SITE SHALL HAVE CLEAN, PROPERLY COMPACTED COVER. SEE DETAIL 2/T-501 FOR ADDITIONAL INFORMATION.
- H. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING OF SIDEWALKS, PAVEMENT, FLOORS, WALLS, CEILINGS, ROOFS, ETC. TO PERFORM THE REQUIRED WORK DEPICTED IN THESE DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PATCHING OF HOLES TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.
- I. CAREFULLY CUT AND RETAIN SOD ALIVE FOR REINSTALLATION. SAW CUT, REMOVE, AND LEGALLY DISPOSE OF CONCRETE AND ASPHALT.
- J. INSTALL MOLDED PLASTIC INTERMEDIATE (HORIZONTAL) SPACERS EVERY SIX FEET WHENEVER TWO OR MORE CONDUITS ARE INSTALLED IN A TRENCH. MAINTAIN A MINIMUM 12-INCH SEPARATION BETWEEN POWER AND COMMUNICATIONS CONDUITS. WHERE TRENCH IS SHARED WITH OTHER UTILITIES, A MINIMUM 36-INCH SEPARATION SHALL BE MAINTAINED FROM WATER, GAS, OR SEWER LINES. ALL CONDUIT SEPARATIONS ARE MEASURED SURFACE-TO-SURFACE AND NOT CENTER-TO-CENTER.
- K. FILL TRENCH AND COMPACT TO MATCH ADJACENT UNDISTURBED SOIL. REPLACE SOD TO MATCH EXISTING. POUR CONCRETE AND REPLACE ASPHALT TO MATCH ADJACENT SURFACES.
- L. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO EXISTING BURIED POWER, COMMUNICATIONS, GAS, WATER, SEWER, IRRIGATION PIPING, ETC. AND SHALL HIRE TRAINED AND CERTIFIED CRAFTSMEN TO PERFORM THE REPAIRS AND BRING THEM BACK TO 'LIKE EXISTING CONDITIONS'. REPAIR WORK WILL NOT BE CONSIDERED COMPLETE UNTIL ALL SYSTEMS ARE ONCE AGAIN FUNCTIONING PROPERLY AND OWNER IS SATISFIED WITH THE REPAIRS.
- M. CONTRACTOR TO FURNISH FIBER OPTIC PATCH PANELS AT EACH END OF PANEL. TERMINATE WITH LC CONNECTORS. PROVIDE LABELING AND TESTING.
- N. FIBER OPTIC CABLE RUN IS APPROXIMATELY 750'. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ACTUAL LENGTH REQUIRED TO COMPLETE THE PROJECT.



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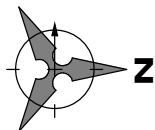
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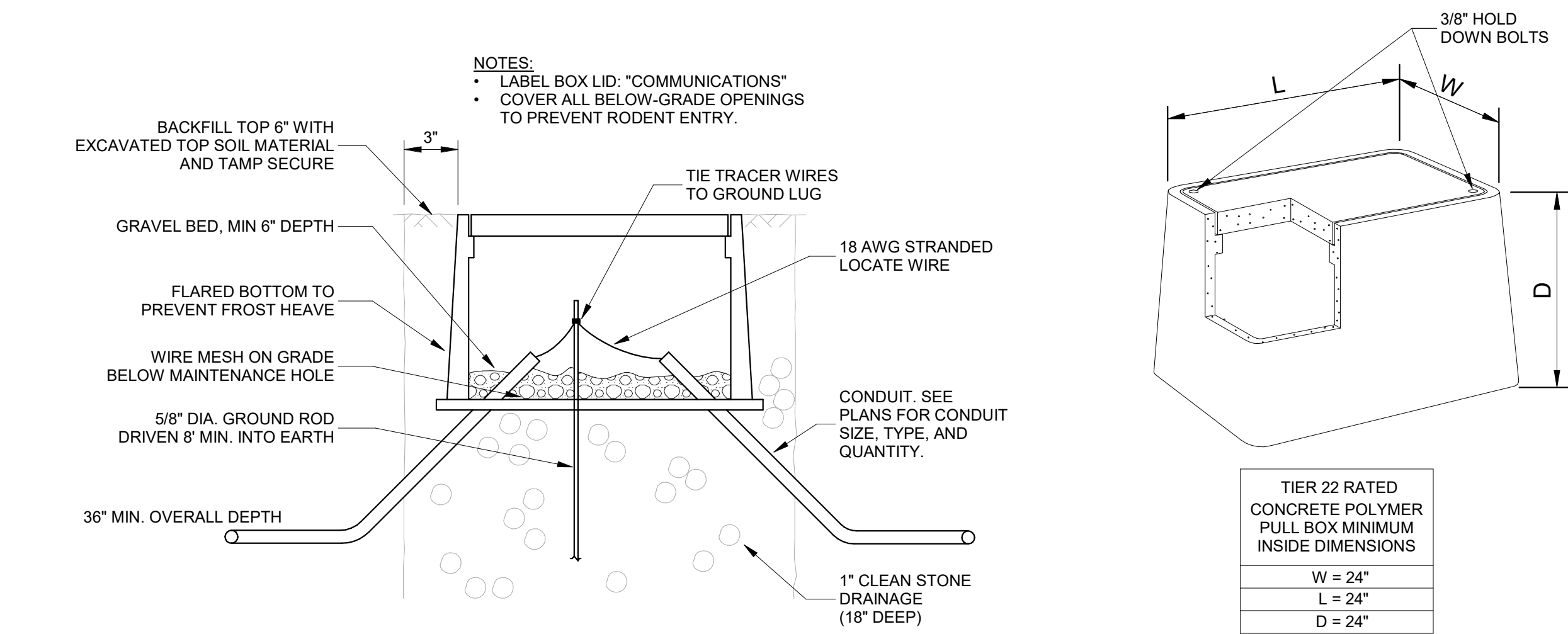
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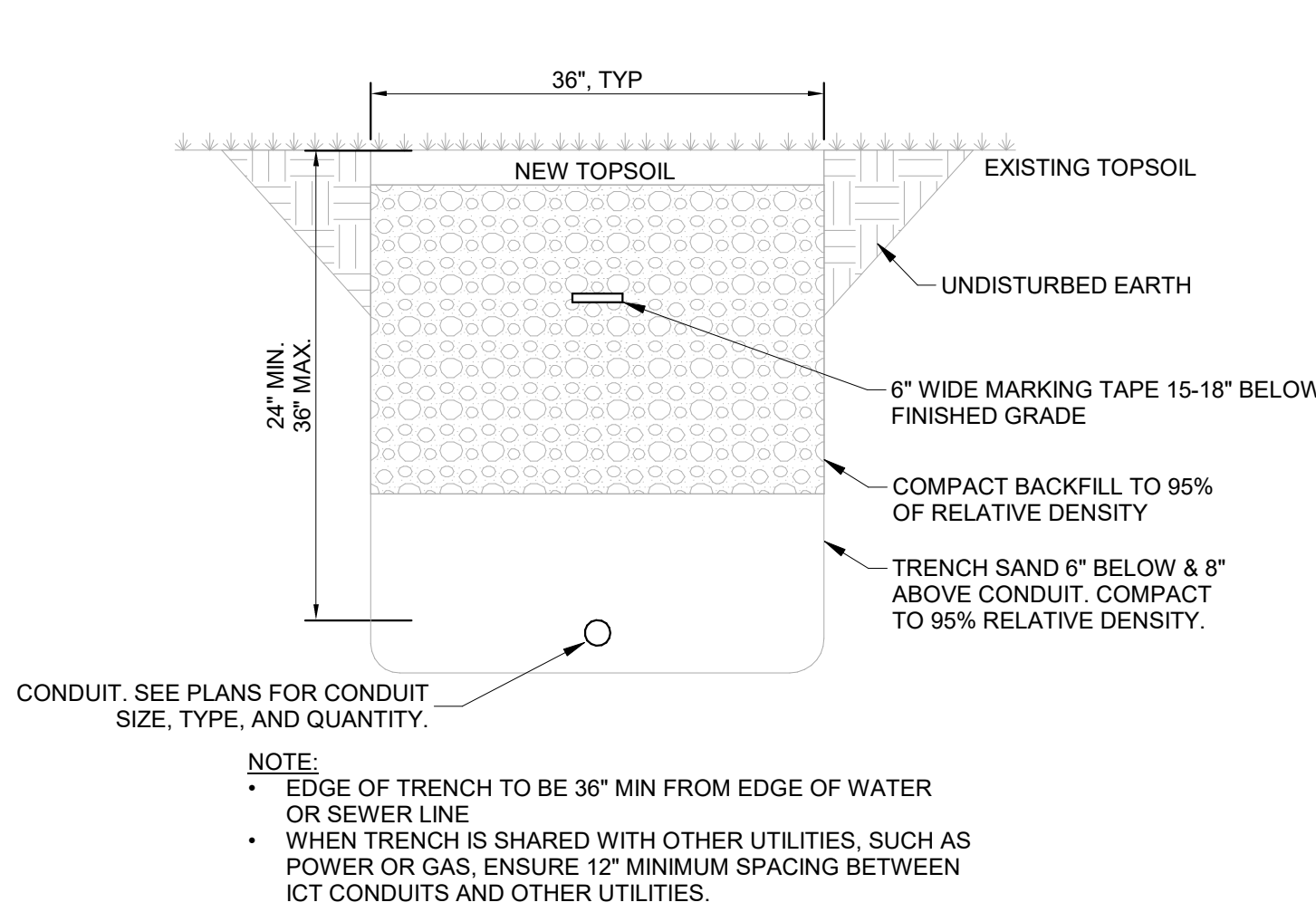
ICT SITE PLAN

T-100

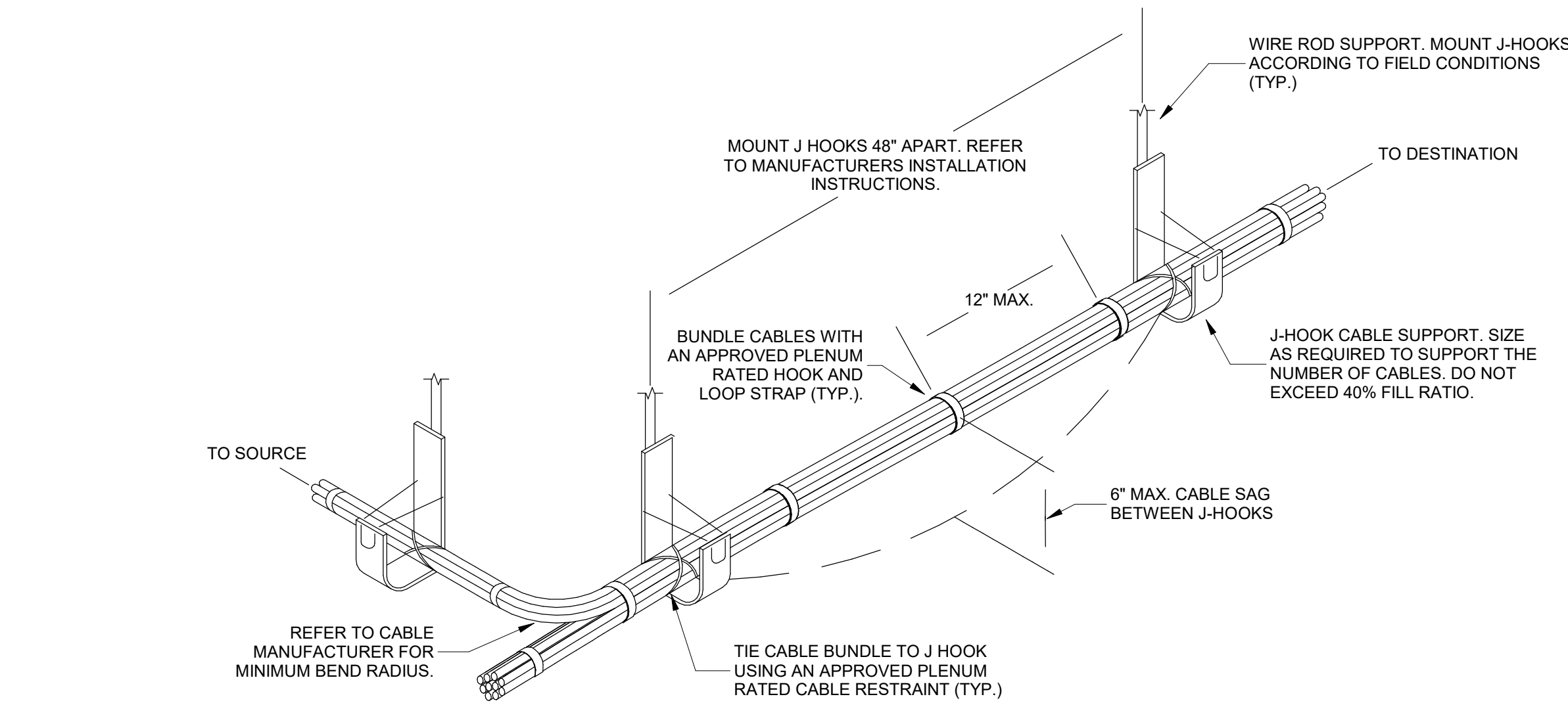




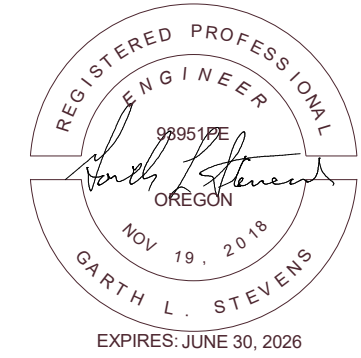
1 COMMUNICATIONS - HANDHOLE DETAIL
N.T.S.



2 COMMUNICATIONS - TRENCH DETAIL
N.T.S.



3 J-HOOK DETAIL
N.T.S.



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