

	GENERAL NOTES
6	 ALL WORK AND MATERIAL SHALL CONFORM TO THESE PLANS AND THE APPLICABLE PROVISIONS OF THE ENGINEERING DE MANUAL (DESIGN MANUAL), LATEST EDITION, APWA/ODOT OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, L ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
0	 THE CONTRACTOR SHALL HAVE A MINIMUM OF ONE (1) SET OF APPROVED CONSTRUCTION PLANS ON THE JOB SITE AT AL CONSTRUCTION PHASES.
	3. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING ITEMS:
	a. COPY OF THE CONTRACTOR'S CERTIFICATE OF INSURANCE b. EMERGENCY CONTACT NAME AND PHONE NUMBER
	c. TRAFFIC CONTROL PLAN
	d. LIST OF SUBCONTRACTORS 4. A COPY OF THE PERMIT WITH ALL ATTACHMENTS, A COPY OF THE APPROVED CONSTRUCTION PLANS, AND ALL AMENDMI
	PROJECT SITE AT ALL TIMES. ALL WORK SHALL CONFORM TO THE PERMIT TERMS, CONDITIONS/PROVISIONS, APPROVED C PLAN AMENDMENTS, AND THESE GENERAL CONDITIONS. CHANGES TO ANY OF THE AFORESAID MUST BE APPROVED BY T
	ADVANCE OF WORK PERFORMANCE. 5. ALL FENCING, ESC MEASURES, AND CONSTRUCTION ENTRANCES SHALL BE INSTALLED AND MAINTAINED BY THE DEVELOP
	COUNTY PRIOR TO BEGINNING WORK ON THE SITE. CALL FOR INSPECTION 24 HOURS IN ADVANCE. 6. MAINTENANCE OF THE WORK AREA AND APPROACH ROADS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE WORK ARI
	MAINTAINED IN A CLEAN AND SANITARY CONDITION, FREE FROM OBSTRUCTIONS, HAZARDS, DEBRIS, AND TRASH AT ALL CERTIFICATE OF INSURANCE SHALL BE AVAILABLE AT THE WORK AREA.
	7. THE SPREADING OF MUD OR DEBRIS OR STORAGE OF MATERIAL OR EQUIPMENT OF ANY KIND UPON ANY PUBLIC ROADW VIOLATION SHALL BE CAUSE FOR IMMEDIATE SUSPENSION OF THE PERMIT. THE PROJECT ENGINEER AND/OR CITY MAY AT
	CLEAN UP AND STOPPAGE OF WORK TO ACCOMPLISH CLEAN-UP. 8. DUST SHALL BE CONTROLLED WITHIN THE DEVELOPMENT DURING CONSTRUCTION AND SHALL NOT BE PERMITTED TO DR
5	 9. CONTRACTOR SHALL MONITOR THE HAULING OF DEBRIS TO ENSURE THAT ALL SPILLAGE FROM TRUCKS IS PROMPTLY AND CLEANED UP.
0	10. THE CONTRACTOR SHALL CONTROL TRAFFIC THROUGH THE PROJECT SITE IN CONFORMANCE WITH THE LATEST EDITION (
	CONTROL DEVICES" (MUTCD), "OREGON SUPPLEMENTS", AND CITY REQUIREMENTS. THE CONTRACTOR SHALL AT ALL TIM OWNERS NEAR THE PROJECT SITE. THE CONTRACTOR SHALL PROVIDE A PROJECT-SPECIFIC TRAFFIC CONTROL PLAN, APPR ON THE PROJECT SITE.
	11. THE CONTRACTOR IS RESPONSIBLE FOR PROVISION OF TIMELY NOTIFICATION OF TRAFFIC FLOW DISRUPTIONS TO AREA-W
	SCHOOL DISTRICT. THE CONTRACTOR SHALL MAINTAIN AND COORDINATE ACCESS TO ALL AFFECTED PROPERTIES. 12. TRAFFIC CONTROL DEVICES, FLAG PERSONS, ETC., SHALL BE IN PLACE PRIOR TO INITIATION OF CONSTRUCTION WORK ANI
	MAINTAINED. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO ANY WORK WITHIN 13. PUBLIC ROADWAYS SHALL NOT BE CLOSED TO TRAFFIC, AT ANY TIME, WITHOUT HAVING FIRST OBTAINED A STREET CLOSI
	14. COMPACTION TESTING IS THE RESPONSIBILITY OF THE DEVELOPER. PROVIDE THE CITY WITH COPIES OF THE TEST RESULT: ASPHALT. SCHEDULE PROOF ROLLS WITH THE CITY AT LEAST 48 HOURS IN ADVANCE.
	15. CONTRACTOR MUST VERIFY ALL EXISTING UTILITIES FOR BOTH VERTICAL ELEVATION AND HORIZONTAL LOCATION PRIOR
	16. THE CONTRACTOR SHALL MAINTAIN BENCHMARKS, PROPERTY CORNERS, AND MONUMENTS. IF SUCH POINTS ARE DISTU
	CONSTRUCTION ACTIVITIES, THEY SHALL BE REPLACED IN ACCORDANCE WITH ORS 209 BY EMPLOYING A PROFESSIONAL L CORNERS AND OTHER SUCH MONUMENTS.
	17. PROPERTY DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED. GRASS, SHRUBS, FLOWERS, BARK DUST, EXISTING MAILBOXES, ETC. DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE RE-ESTABLISHED, REINSTALLED OR REPLACED, WITH I
	18. EFFECTIVE DRAINAGE CONTROL IS REQUIRED. DRAINAGE SHALL BE CONTROLLED WITHIN THE SITE AND SHALL BE ROUTED PROPERTY, PUBLIC PROPERTY, AND THE RECEIVING SYSTEM ARE NOT ADVERSELY IMPACTED. THE PROJECT ENGINEER ANI
Λ	ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE DRAINAGE CONTROL. 19. TRENCHES WILL NOT BE ALLOWED TO REMAIN OPEN OVERNIGHT. A TEMPORARY HARD-SURFACE PATCH (HOT MIX BASE I
4	WITH PINS AND COLD MIX RAMPS SHALL BE PLACED ON TRENCHES WITHIN EXISTING ROADWAYS AT THE END OF EACH DA OFF-SITE, SHALL BE LEFT AT ANY TIME IN AN UNSAFE CONDITION. THE CONTRACTOR IS RESPONSIBLE AND LIABLE FOR HAD
	FROM THE PROSECUTION OF THE WORK. 20. WORK PROVIDED FOR UNDER THE PERMIT SHALL INCLUDE REPAIR OF EXISTING FACILITIES (ROADS, DITCHES, ETC.) AS MA
	OPINION, TO OVERCOME DETERIORATION OR DAMAGE WHICH OCCURRED IN CONJUNCTION WITH THE WORK AUTHORIZ WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
	21. POWER, TELEPHONE, GAS, AND CABLE TELEVISION TRENCHING AND CONDUITS ARE TO BE INSTALLED PER UTILITY COMPA UTILITY COMPANY FOR SIZE AND TYPE OF CONDUIT PRIOR TO CONSTRUCTION.
	22. UNIDENTIFIED UTILITIES SHALL NOT BE DISRUPTED OR CUT UNTIL UTILITY COMPANY HAS APPROVED THE CUT OR DISRUPT
	23. ALL FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTR PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES A CONSTRUCTION - CONTRACTOR TO LEAVE EXISTING CACULTIES IN AN SOLIDA OF PETTER THAN OPPORTATION - CONDITION
	CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER-THAN-ORIGINAL CONDITION. 24. NOTIFY THE UTILITY COMPANY IMMEDIATELY OF ALL UTILITIES EXPOSED. UTILITIES OR INTERFERING PORTIONS OF UTILIT
	SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. 25. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES, STUMPS, BRUSH, ROOTS, TOPSOIL, AND OTHER MATERIAL IN
	UNDER THE NEW ROADWAY AND WHERE INDICATED ON THE PLANS. MATERIAL SHALL BE DISPOSED OF IN SUCH A MANN REGULATIONS.
	26. IF GROUND WATER SPRINGS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE MEASURES TO CONVEYED THROUGH UTILITY TRENCHES, AND THE NATURAL FLOW PATH OF THE SPRING IS ALTERED AS LITTLE AS PRACT
	27. SAWCUT STRAIGHT MATCH LINES WHERE EXISTING PAVEMENT MEETS NEW PAVEMENT. SAND AND SEAL JOINT (TYPICAL)
_	28. CONTRACTOR SHALL FOLLOW OSHA REQUIREMENTS. 29. ALL TRENCHES SHALL BE PROPERLY SHORED AND BRACED TO PREVENT CAVING.
3	30. WHERE TRENCH EXCAVATION REQUIRES REMOVAL OF PCC CURBS AND/OR SIDEWALKS, THE CURBS AND/OR SIDEWALKS S AT A TOOLED JOINT UNLESS OTHERWISE AUTHORIZED BY THE OWNER'S REPRESENTATIVE. THE SAWCUT LINES SHOWN O
	AND NOT INTENDED TO SHOW THE EXACT ALIGNMENT OF SUCH CUTS. 31. THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO COMPLETE THE PROJECT IN ACCORD
	DRAWINGS AND DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS AND DAMAGE TO ALL ITEMS THAT AR USE NEW MATERIAL. REPAIRS SHALL RESTORE THE DAMAGED ITEM TO THE PRE-EXISTING CONDITION OR BETTER. SUCH R
	THE CONTRACTOR'S SOLE EXPENSE. 32. CONTRACTOR IS RESPONSIBLE FOR SITE JOB SAFETY, WHICH SHALL INCLUDE BUT NOT BE LIMITED TO THE INSTALLATION /
	FENCING, AND OTHER APPROPRIATE SAFETY ITEMS NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION 33. SETTLEMENT OR CRACKING OF FINISHED SURFACES WITHIN THE WARRANTY PERIOD SHALL BE CONSIDERED TO BE A FAIL
	REPAIRED IN A MANNER ACCEPTABLE TO AND AT NO COST TO THE CITY OR DEVELOPER. 34. PRIOR TO FINAL PROJECT ACCEPTANCE, THE CONTRACTOR SHALL CLEAN THE WORK SITE AND ADJACENT AREAS OF ANY D
	CONCRETE MATERIAL, OR OTHER ITEMS DEPOSITED BY THE CONTRACTOR'S PERSONNEL DURING THE PERFORMANCE OF
	GRADING AND COMPACTION NOTES
	ALL STRUCTURAL FILLS SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 OR EQUIVALENT STANDARD (AASHTO T-180). SUBGRADE SHALL BE COMPACTED TO 92% RELATIVE DENSITY. ASPHALT CONCRETE SHALL BE COMPACTED TO 92% RELATIVE DENSITY. CRUSHED ROCK SHALL BE
	COMPACTED TO 95% RELATIVE DENSITY. ALL FILL ON LOTS SHALL BE CONSIDERED STRUCTURAL FILL AND SHALL BE COMPACTED TO REQUIREMENTS OF
2	GEOTECHNICAL REPORT.

ESIGN AND STANDARD DETAILS LATEST EDITION, AND THE MANUAL

ALL TIMES DURING THE

1ENTS SHALL BE AVAILABLE AT THE CONSTRUCTION PLANS, APPROVED THE PROJECT ENGINEER AND CITY, IN

OPER AND INSPECTED BY CLACKAMAS

REA AND APPROACH ROADS SHALL BE TIMES. A COPY OF THE CONTRACTOR

NAY IS STRICTLY PROHIBITED AND T ANY TIME ORDER IMMEDIATE

RIFT ONTO ADJACENT PROPERTIES. ID COMPLETELY REMOVED AND

OF "MANUAL ON UNIFORM TRAFFIC MES MAINTAIN LOCAL ACCESS FOR ROVED BY THE CITY, AND AVAILABLE

WIDE EMERGENCY SERVICES AND THE

ND SHALL BE EFFECTIVELY IN EXISTING RIGHT-OF-WAY. SURE PERMIT FROM THE CITY. TS ON BASE ROCK AND

R TO START OF WORK (POTHOLE

JRBED OR DESTROYED BY LAND SURVEYOR TO RESET PROPERTY

NG SIGNS, PAVEMENT MARKINGS, LIKE KIND AND MATERIAL. O SO THAT ADJACENT PRIVATE ND/OR COUNTY MAY AT ANY TIME

PAVING) OR STEEL PLATES SECURED DAY'S WORK. NO TRENCH, ON-SITE OR AZARDS OR DAMAGE RESULTING

AY BE NECESSARY, IN THE CITY'S ZED BY THE PERMIT. CORRECTIVE

PANY REQUIREMENTS. VERIFY WITH

PTION. RACTOR SHALL TAKE ALL S AT ALL TIMES DURING

ITIES THAT ARE ABANDONED IN PLACE

THE NEW PUBLIC RIGHT-OF-WAY, NER AS TO MEET ALL APPLICABLE

ENSURE THAT THE WATER IS NOT TICABLE.

SHALL BE SAWCUT AND REMOVED ON THE DRAWINGS ARE SCHEMATIC

DANCE WITH THE APPROVED RE TO REMAIN. ALL REPAIRS SHALL REPAIRS SHALL BE PERFORMED AT

AND MAINTENANCE OF BARRIERS, N AND CONSTRUCTION ACTIVITY. URE OF THE SUBGRADE, AND

DEBRIS, DISCARDED ASPHALTIC THIS CONTRACT.



GENERAL NOTES

EXISTING GROUND SHALL BE STRIPPED 4" DEPTH AND REMOVED OF ROOTS AND VEGETATION.

CONFIRM LOCATION OF MODULAR BUILDINGS PRIOR TO CONSTRUCTION OF GRAVEL PAD.

UTILITIES SHOWN ARE COMPILED FROM RECORD DRAWINGS. CALL FOR PRIVATE LOCATES PRIOR TO CONSTRUCTION.

EXISTING CONDITIONS SHOWN ARE COMPILED FROM RECORD DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY PROJECT MANAGER OF ANY CONFLICTS.

EXISTING GRADES SHOWN ARE COMPILED FROM RECORD DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.



GRAVEL PAD SECTION NTS

CONCRETE SIDEWALK DETAIL NTS

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EXPIRES: 06/30/2021



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SITE PLAN

DESCRIPTION

C111

02/20/2020

EROSION AND SEDIMENT CONTROL NOTES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH LOC CHAPTER 52, STATE, AND FEDERAL REGULATIONS. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED, INSPECTED, AND MAINTAINED PER THE EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, DECEMBER 2000.

THE IMPLEMENTATION OF THESE ESC PLANS AND CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE LOCAL JURISDICTION, AND VEGETATION/LANDSCAPING IS ESTABLISHED. THE OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE AFTER THE PROJECT IS APPROVED UNTIL VEGETATION/LANDSCAPING IS ESTABLISHED.

THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.

THE ESC FACILITIES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE.

AT NO TIME SHALL SEDIMENT BE ALLOWED TO ACCUMULATE MORE THAN 1/3 THE HEIGHT OF SEDIMENT FENCES.

STORM DRAIN INLETS, BASINS, AND AREA DRAINS SHALL BE PROTECTED UNTIL PAVEMENT SURFACES ARE COMPLETED AND/OR VEGETATION IS RE-ESTABLISHED. INLET PROTECTION MEASURES SHALL BE IN PLACE DURING SAW CUTTING ACTIVITIES.

ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATIONS SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE STORM WATER MANAGEMENT SYSTEM.

PAVEMENT SURFACES AND VEGETATION ARE TO BE PLACED AS RAPIDLY AS POSSIBLE. PUBLIC STREETS WILL BE SWEPT DAILY, IF NECESSARY, TO ALLEVIATE SEDIMENT DISCHARGE TO THE STORM WATER MANAGEMENT SYSTEM. UNFILTERED WASH WATER CANNOT BE DISCHARGED TO STORM DRAINS.

TEMPORARY GRASS COVER MEASURES MUST BE FULLY ESTABLISHED BY OCTOBER 1ST. FROM OCTOBER 1ST THROUGH APRIL 30TH, THE WET WEATHER EROSION PREVENTION MEASURES WILL BE IN EFFECT FOR ANY EXPOSED SOIL OR SOILS NOT FULLY ESTABLISHED. SEE THE EROSION AND SEDIMENT CONTROL MANUAL (CHAPTER 4) FOR REQUIREMENTS. ALL STOCKPILED SEDIMENT WILL BE COVERED WITH PLASTIC SHEETING AND ISOLATED WITH SILT FENCING OR CHECK DAM AT THE TOE OF SLOPE WHEN NOT IN USE. ALL NEWLY EXPOSED SOILS WILL BE PROTECTED WITH AN ADEQUATE GROUND COVER AT THE END OF CONSTRUCTION EACH DAY. (STRAW, MULCH, COMPOST, WOOD CHIPS, PLASTIC SHEETING, ETC.).

IN AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST, WHERE ON-SITE OR OFF-SITE DAMAGE IS LIKELY TO OCCUR, ONE OR MORE OF THE FOLLOWING PREVENTATIVE MEASURES SHALL BE TAKEN FOR DUST CONTROL:

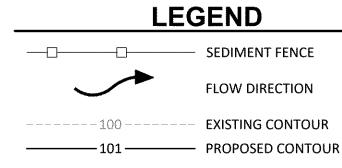
A. MINIMIZE THE PERIOD OF SOIL EXPOSURE THROUGH THE USE OF TEMPORARY GROUND COVER AND OTHER TEMPORARY STABILIZATION PRACTICES.

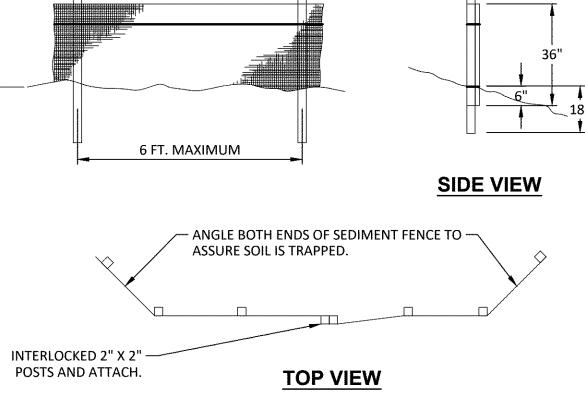
B. THE SITE IS SPRINKLED WITH WATER UNTIL SURFACE IS WET. REPEAT AS NEEDED TO PREVENT THE CARRY OUT OF MUD ONTO STREET, REFER TO STABILIZED CONSTRUCTION ENTRANCE DETAILS.

C. SPRAY EXPOSED SOILS WITH A DUST PALLIATIVE. NOTE, USED OIL IS PROHIBITED AS A PALLIATIVE.

STOCKPILES THAT WILL BE EXPOSED FOR MORE THAN 14 DAYS SHALL BE PROTECTED WITH PLASTIC SHEETING OR WITH A TEMPORARY GROUND COVER USED IN CONJUNCTION WITH TEMPORARY/PERMANENT SEEDING. STOCKPILES THAT CONTAIN ONLY STRIPPINGS SHALL BE IMMEDIATELY COVERED WITH PLASTIC SHEETING. SEDIMENT FENCES SHALL BE PLACED AT THE TOE OF SLOPE OF ALL STOCKPILES.

WIRE DIRECTLY OVER THE PIPE CENTERLINE AND ON TOP OF THE PIPE ZONE MATERIAL, PARALLEL TO, AND ALONG THE ENTIRE LENGTH OF ALL NONMETALLIC





NOTES:

- BURY BOTTOM OF FILTER FABRIC 6" MIN. VERTICALLY BELOW GRADE. 2. 2" x 2" FIR, PINE, OR STEEL FENCE POSTS.
- 3. STITCHED LOOPS TO BE INSTALLED UPHILL SIDE OF SLOPE. 4. COMPACT NATIVE FILL IN ALL AREAS OF FILTER FABRIC TRENCH.

SEDIMENT FENCE

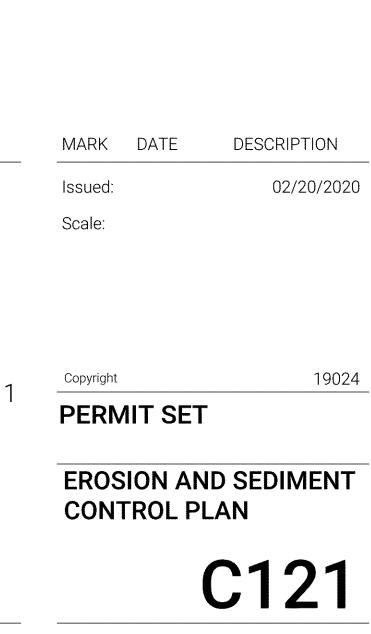
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SCALE: 1" = 20'



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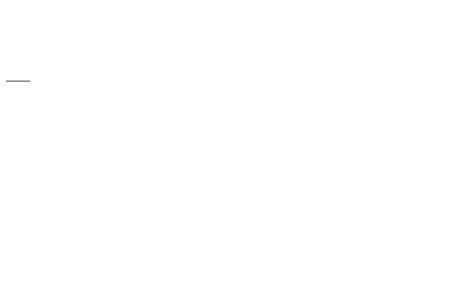
Portland, Oregon 97205

	CONSTRUCTION NOTES:
	1 CONNECT TO EXISTING STORM PIPE. CONTRACTOR TO POTHOLE TO CONFIRM DEPTH AND LOCATION.
6	(2) INSTALL 6" PVC STORM PIPE, S=0.0100 MIN
	3 INSTALL 4" PVC STORM PIPE, S=0.0200 MIN
	(4) INSTALL CLEANOUT.
	5 DOWNSPOUT CONNECTION. LOCATE CLEANOUT ON VERTICAL PIPE.
	6 INCREASE FLOW CONTROL ORIFICE DIAMETER FROM 1.0" TO 1.7".
	STORM DRAINAGE NOTES: PRIVATE STORM DRAINAGE CONSTRUCTION SHALL BE IN
	ACCORDANCE WITH CITY OF HAPPY VALLEY AND 2017 OREGON PLUMBING SPECIALTY CODE.
5	STORM DRAIN PIPE SHALL BE AS SHOWN ON PLAN OR AS ACCEPTABLE PER THE OREGON PLUMBING SPECIALTY CODE.
	THE CONTRACTOR SHALL TEST ALL PVC AND HDPE STORM PIPE FOR DEFLECTION AS PER CITY OF HAPPY VALLEY AND CCSD NO. 1 STANDARD SURFACE WATER SPECIFICATIONS. A COPY OF THE TEST RESULTS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.
	THE CONTRACTOR SHALL FLUSH THE ENTIRE STORM SYSTEM AND VIDEO INSPECT ALL STORM SEWER CONVEYANCE PIPES. A COPY OF THE REPORT AND VIDEO TAPE SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.
	ALL STORM SEWER PIPES SHALL HAVE A RUBBER GASKET. ALL STORM PIPE AND RELATED CONNECTIONS TO CATCH BASINS, MANHOLES, AND OTHER RELATED STRUCTURES SHALL BE WATER TIGHT AS PER CITY OF HAPPY VALLEY AND CCSD NO. 1.
	TRACER WIRE - 12-GAUGE STRANDED OR SOLID COPPER INSULATED HIGH MOLECULAR WEIGHT POLYETHYLENE (HMW-PE) TRACER WIRE. THE HMW-PE INSULATED COVER SHALL BE GREEN AND A MINIMUM 45 MIL THICK. THE WIRE SHALL BE RATED FOR 140 DEGREES FAHRENHEIT. INSTALL TRACER WIRE IN ALL TRENCHES FOR STORM SEWERS. PLACE THE TRACER WIRE DIRECTLY OVER THE PIPE CENTERLINE AND ON TOP OF THE PIPE ZONE MATERIAL, PARALLEL TO, AND ALONG THE ENTIRE LENGTH OF ALL NONMETALLIC PIPE.
4	EXISTING UTILITIES SHOWN ON THE PLAN ARE COMPILED FROM RECORD DRAWINGS. CONTRACTOR SHALL CALL FOR LOCATES AND POTHOLE AS NEEDED TO CONFIRM EXISTING UTILITIES.
	STM S
	SAN SAN EXISTING SANITARY LINE

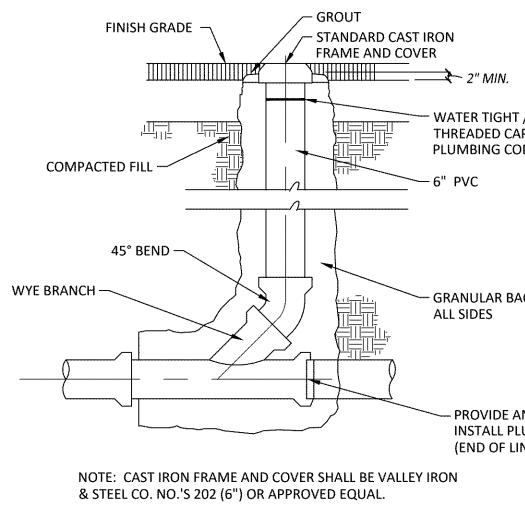












STANDARD CLEANOUT NTS

THOLE



 WATER TIGHT / GAS TIGHT
 THREADED CAP PER PLUMBING CODE

GRANULAR BACKFILL ALL SIDES

- PROVIDE AND SECURELY INSTALL PLUG (END OF LINE ONLY)

SCALE: 1" = 20'

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DESCRIPTION

02/20/2020

Abbreviat	ions	<u>Connec</u>
AFC	ABOVE FINISHED CEILING	
AFF ANSI	ABOVE FINISHED FLOOR AMERICAN NATIONAL STANDARDS INSTITUTE	VFI
AWG	AMERICAN WIRE GAUGE	
А	AMPERES, AMBER	\boxtimes
AHJ AIC	AUTHORITY HAVING JURISDICTION AVAILABLE INTERRUPTING CAPACITY	
BAS	BUILDING AUTOMATION SYSTEM	F
CA	CABLE	Ľ
CAT	CATEGORY	
CLG C	CEILING CONDUIT, CLOSE, CONTROL	Ю
COORD	COORDINATE	
CU	COPPER	
dB (X)	DECIBEL DEMOLISH	
DTL	DETAIL	F +
DIA	DIAMETER	
DIM DIV	DIMENSION DIVISION	
DN	DOWN	FSD
DWG	DRAWING	
EA		(SD
EMT EL	ELECTRICAL METALLIC TUBING ELEVATION	
Е	EMERGENCY	\frown
EF	EXHAUST FAN	Q
(E) FA	EXISTING FIRE ALARM	
FMC	FLEXIBLE METAL CONDUIT	J
FT	FOOT, FEET	
FBO G, GND	FURNISHED BY OTHERS GROUND	Q
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	<u>ـــ</u>
GFI	GROUND FAULT INTERRUPTER	Fire Ala
GFP HT	GROUND FAULT PROTECTION HEIGHT	
ID	IDENTIFICATION	P
IN	INCH, INCHES	
IEEE IG	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS ISOLATED GROUND	
KV	KILOVOLT	
KVA	KILOVOLT AMPERES	<u>General</u>
KW	KILOWATT	(x
LED LFMC	LIGHT EMITTING DIODE LIQUIDTIGHT FLEXIBLE METAL CONDUIT	X
LV	LOW VOLTAGE	(xx-x
MOCP	MAXIMUM OVERCURRENT PROTECTION	
MIN MCA	MINIMUM MINIMUM CIRCUIT AMPS	LUCA
MISC	MISCELLANEOUS	$\langle 1 \rangle$
MCC	MOTOR CONTROL CENTER	
MT, MTD		×/
NEC NESC	NATIONAL ELECTRIC CODE NATIONAL ELECTRIC SAFETY CODE	<u> </u>
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	
N		
N/A N.I.C.	NOT APPLICABLE NOT IN CONTRACT	
N.I.C. NTS	NOT TO SCALE	X
OC	ON CENTER	
	OWNER FURNISHED, CONTRACTOR INSTALLED	<u>Miscella</u>
PNL PH	PANEL PHASE	
PVC	POLY-VINYL-CHLORIDE	
PWR	POWER	#1)
QTY (R)	QUANTITY RELOCATE	B-27,29
RFI	REQUEST FOR INFORMATION	
REQD	REQUIRED	
RMC	RIGID METAL CONDUIT	_
RM SHT	ROOM SHEET	
STD	STANDARD	~
SPD	SURGE PROTECTION DEVICE	
SWBD	SWITCHBOARD	
TBD XFMR	TO BE DETERMINED TRANSFORMER	<u>u</u>
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR	. 1
TYP	TYPICAL	-
UL		
UPS UON	UNINTERRUPTIBLE POWER SUPPLY UNLESS OTHERWISE NOTED	
V	VOLTS, VOLTAGE	GB
WP	WEATHERPROOF	L
W/ W/O	WITH WITHOUT	
VV/U		

ections	/ Equipment
VFD	COMBINATION ADJUSTABLE FREQUENCY DRIVE WITH SAFETY DISCONNECT SWITCH
⊠-	COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH
F	HEAVY DUTY FUSED DISCONNECT SWITCH
Ø	MOTOR CONNECTION
	NON-FUSED DISCONNECT SWITCH
T	TRANSFORMER
FSD	FIRE SMOKE DAMPER
99	SMOKE DAMPER
0	CEILING MOUNTED JUNCTION BOX
J	FLOOR MOUNTED JUNCTION BOX
Ŷ	WALL-MOUNTED JUNCTION BOX
larm	
P	PULL STATION
	HORN
<u>ral</u>	
× ×	DETAIL NUMBER AND SHEET LOCATION
	EQUIPMENT IDENTIFICATION
1	KEYED NOTE
<	DEMOLISH
	EXISTING WORK
	NEW WORK
llaneou	S BRANCH CIRCUIT WIRING ARROW INDICATES HOME RUN TO

<u>Miscellaneou</u>	<u>S</u>
#10 	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	DRY TYPE TRANSFORMER
	FLUSH WALL MOUNTED BRANCH PANEL
GB	GROUND BAR
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
<u>Raceways</u>	
	CONDUIT CONCEALED IN WALL OR CEILING SPACE
	CONDUIT ROUTED BELOW FLOOR / GRADE
•	CONDUIT ELLED DOWN
———————————————————————————————————————	CONDUIT ELLED UP
	CONDUIT/WIRING CONTINUATION
3	CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING
	FLEXIBLE CONDUIT
<u>Switches and</u> ⊕	ReceptaclesDUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)A = ABOVE COUNTERB = CLOCK HANGERC = FLUSH CEILING MOUNTEDE = EMERGENCYF = ARC FAULT PROTECTED BY BREAKER IN PANELG = GROUND FAULT CIRCUIT INTERRUPTERH = HOSPITAL GRADEK = CHILD RESISTANT COVERL = ISOLATED GROUNDP = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANTLENGTHR1 = HALF SWITCHED BY OCCUPANCY SENSOR RELAYR2 = FULLY SWITCHED BY OCCUPANCY SENSOR RELAYS = SPLIT WIREDT = TAMPER RESISTANT SHUTTERED RECEPTACLEU = USB PORT(S)W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
Φ	DUPLEX RECEPTACLE, FLUSH FLOOR
•	DOUBLE DUPLEX RECEPTACLE, FLUSH FLOOR
#	DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS

EQUIPMENT ELECTRICAL CONNECTION

ELECTRICAL SYMBOL LIST

\otimes	SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED
os	CEILING MOUNTED OCCUPANCY SENSOR P = PASSIVE INFRARED D = DUAL TECHNOLOGY U = ULTRASONIC, 360 DEG RANGE H = ULTRASONIC, HALLWAY PATTERN v (LOWERCASE) = VACANCY CONTROL DESIGNATION
	WALL MOUNTED OCCUPANCY SENSOR P = PASSIVE INFRARED D = DUAL TECHNOLOGY v (LOWERCASE) = VACANCY CONTROL DESIGNATION
554	WALL MOUNTED OCCUPANCY SENSOR/SWITCH S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF. v (LOWERCASE) = VACANCY CONTROL DESIGNATION
********	MULTIPLE CHANNEL SURFACE METAL RECEPTACLE RACEWAY WITH LOW VOLTAGE DIVIDERS, LENGTH AND RECEPTACLES AS INDICATED
0	PHOTO ELECTRIC SWITCH D = CONTINUOUS DIMMING PHOTOCELL S = SWITCHED PHOTOCELL
\$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION D = DIMMER F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT

S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH

V = LOW VOLTAGE SWITCH

Telecommunications

- DATA OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 1" C. AND (2) CATEGORY 6A CABLES TO WALL MOUNTED DATA RACK. (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) A = ABOVE COUNTER \mathbf{v} C = CEILING MOUNTED ABOVE ACCESSIBLE CEILING
- F = FLUSH CEILING MOUNTED R = SURFACE MOUNTED ON RACEWAY

- A. ALL ELECTRICAL MATERIAL AND INSTALLATIONS SHOWN AND/OR SPECIFIED TO BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC 2017.
- B. REFER TO ARCHITECTURAL DRAWINGS TO COORDINATE LOCATION AND MOUNTING HEIGHT OF ALL ELECTRICAL DEVICES.
- C. MAXIMUM VOLTAGE DROP OF BRANCH CIRCUITS TO BE 3%. ELECTRICAL CONTRACTOR TO SIZE WIRING TO SUIT.
- D. NO WIRE SMALLER THAN #12 AWG SHALL BE USED FOR BRANCH CIRCUIT WIRING. E. IN FINISHED INTERIOR AREAS RUN ALL CONDUITS CONCEALED UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTURAL PAINTING SPECIFICATIONS FOR REQUIREMENTS.
- F. ALL EXPOSED CONDUIT TO BE RUN PARALLEL TO BUILDING LINES.
- G. PROVIDE DEDICATED NEUTRALS FOR ALL BRANCH CIRCUITS UNLESS OTHERWISE NOTED.
- H. ALL IN-SLAB OR BURIED CONDUIT TO BE COMPLETE WITH EQUIPMENT GROUNDING CONDUCTOR.
- I. ALL EMPTY CONDUITS TO BE COMPLETE WITH PULL WIRE.
- J. MC CABLE SHALL NOT BE USED WITHOUT PERMISSION FROM THE ENGINEER.
- K. ALL CONDUIT ROUTED IN AREAS SUBJECT TO MECHANICAL DAMAGE TO BE RIGID.



- E101 SYMBOL LIST AND GENERAL NOTES ELECTRICAL
- E111 SITE PLAN ELECTRICAL
- E121 FIRST FLOOR PLAN ELECTRICAL
- E181 SPECIFICATIONS ELECTRICAL



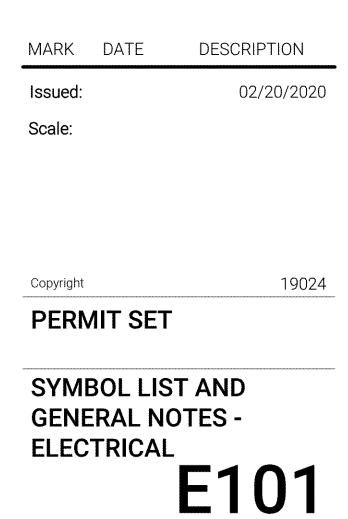
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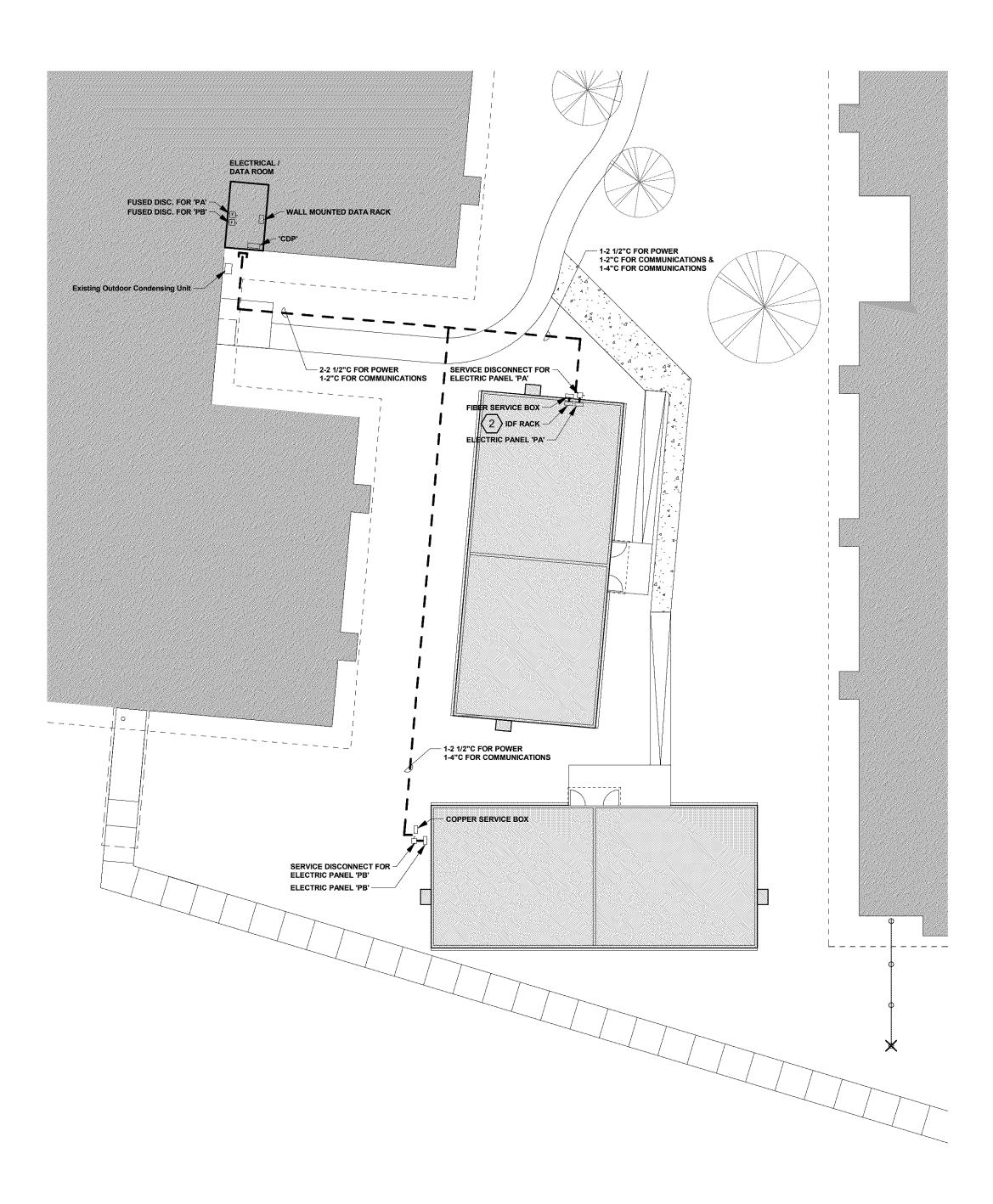
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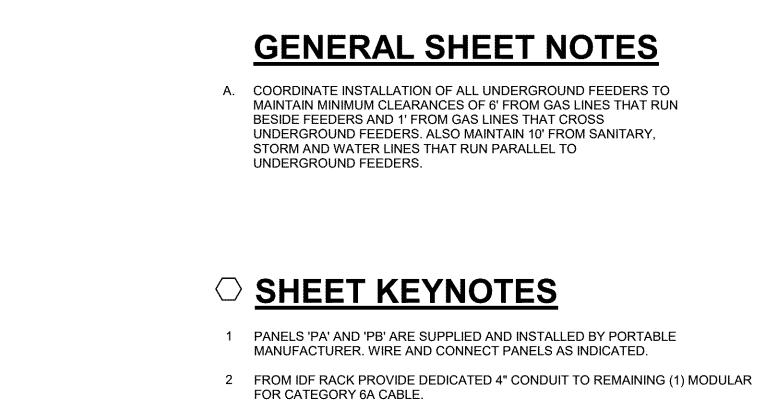




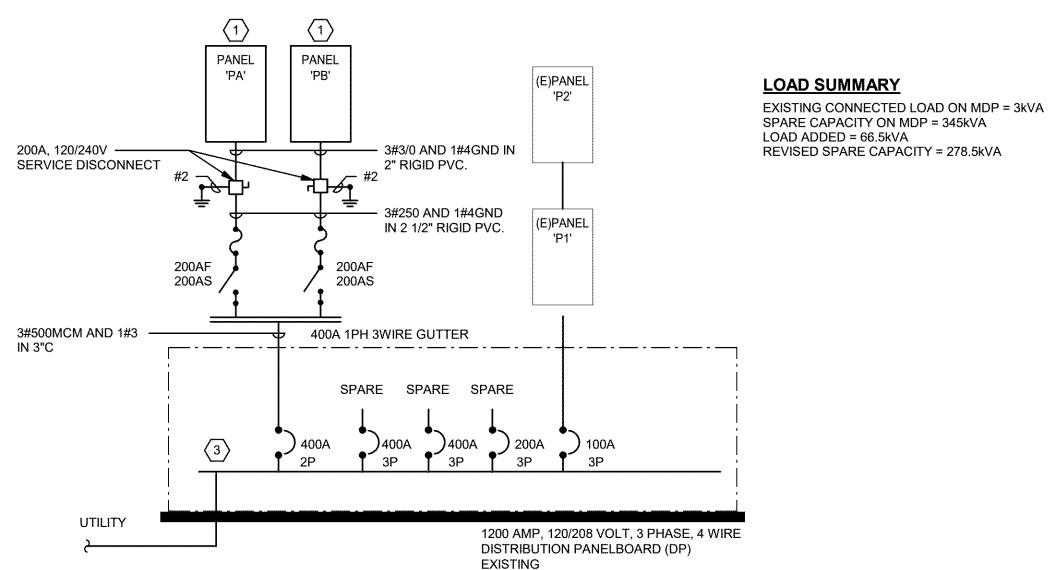


1	SI	TE	PLAN	- ELECTRICAL
	0'	8'	16'	32'
	1/1	6" = 1'	-0"	

NO SCALE



3 UTILIZE EXISTING SPARE 200A-3P BREAKER.

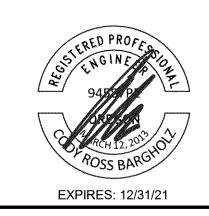


2 PARTIAL ONE-LINE POWER DISTRIBUTION DIAGRAM

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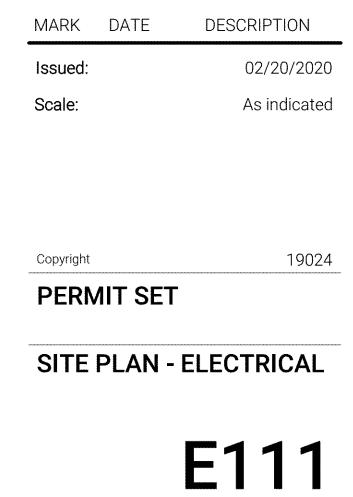
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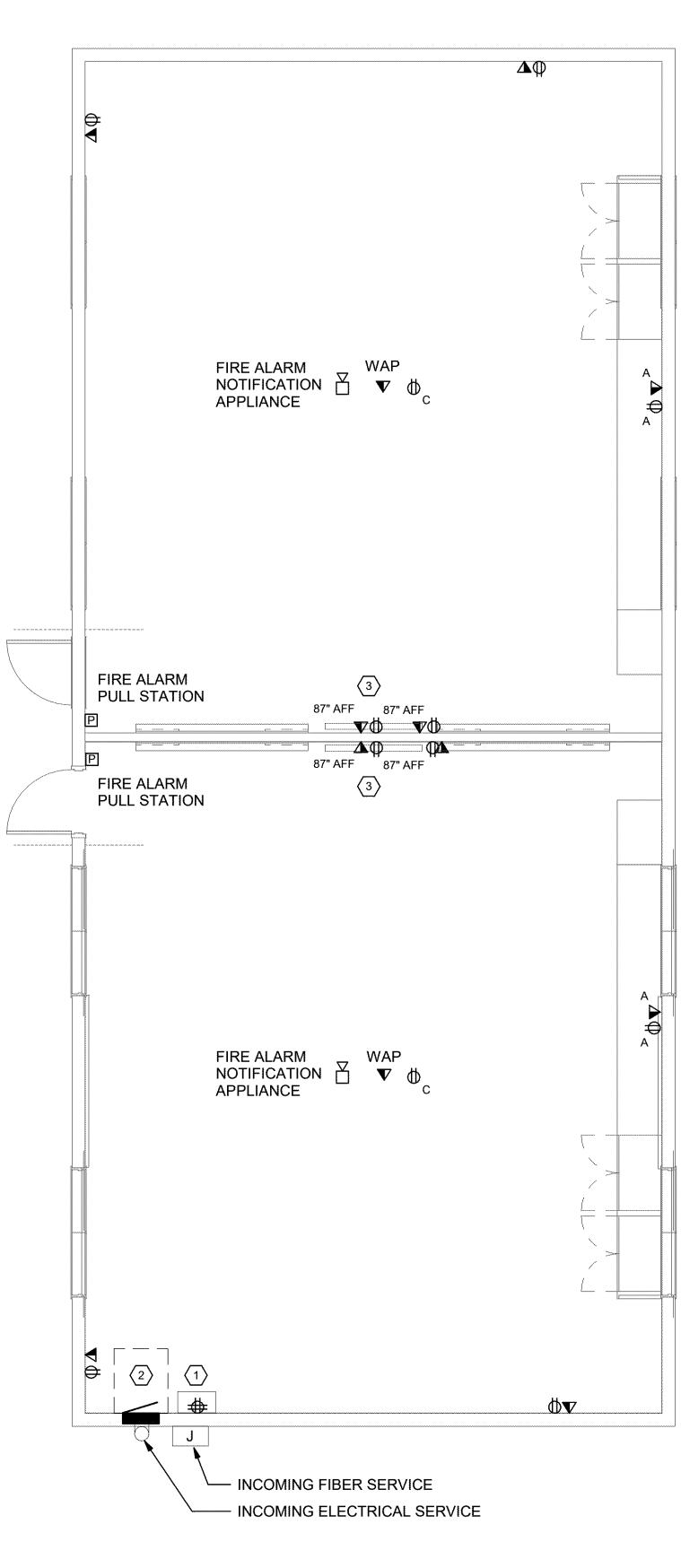
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1 TYPICAL MODULAR POWER PLAN 0'___4'__8'____1 1/4" = 1'-0"

RECESSED LIGHTING FIXTURE(TYP).

NO SCALE

FOR DISTANCES GREATER THAN SIX FEET BETWEEN JUNCTION BOX AND WALL, RUN CONDUIT TO A NEW JUNCTION BOX WITHIN SIX FEET OF THE WALL

CONCRETE SLAB

SUSPENDED -CEILING

FLOOR -----

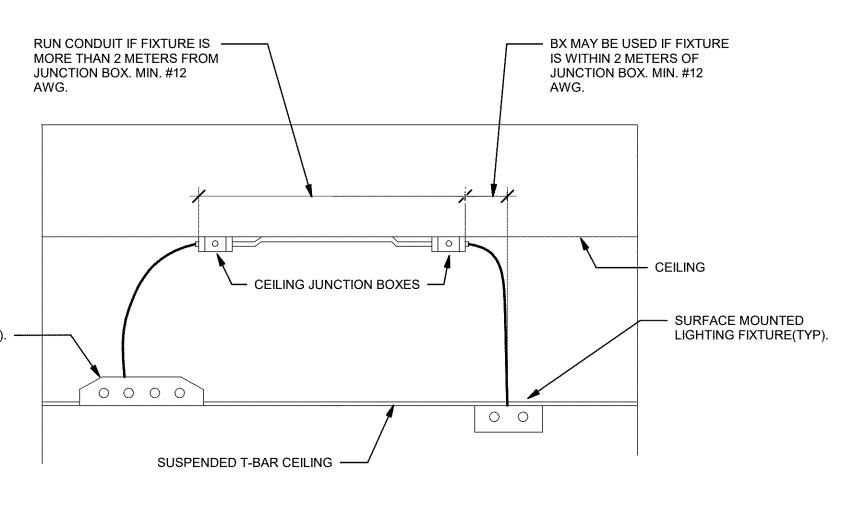
NO SCALE

○ <u>SHEET KEYNOTES</u>

- 1 NEW WALL MOUNTED DATA CABINET TO BE CHATSWORTH CUBE-IT WALL MOUNT CABINET 11996-724. FROM DATA RACK RUN CORNING ALTOS LITE 12 STRAND OS2 FIBER OPTIC CABLE IN COMMUNICATION CONDUIT TO IDF ROOM. TERMINATE FIBER ONTO LC TYPE CONNECTORS AT EACH END.
- 2 REFER TO SITE PLAN FOR ELECTRICAL PANEL LOCATION. DATA RACK TO BE MOUNTED ADJACENT TO ELECTRICAL PANEL.
- 3 INSTALLATION OF DISPLAY MONITORS BY OWNER

ELECTRICAL SCOPE OF WORK

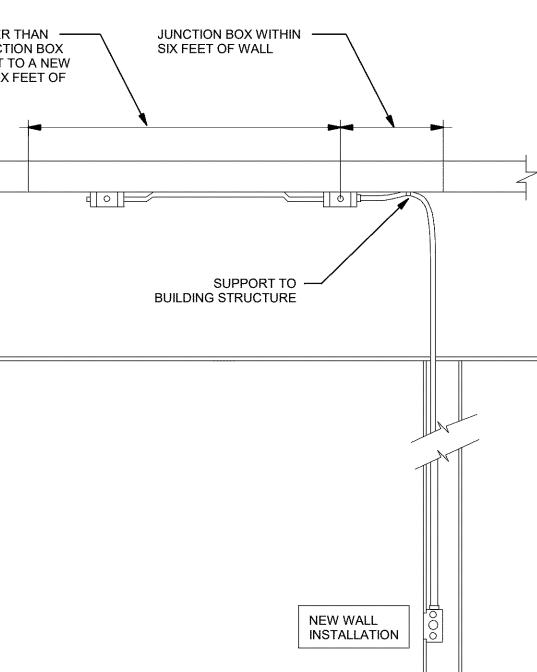
- A. INTERNAL MODULAR PANEL, RECEPTACLE AND 120V WIRING IS BY MODULAR BUILDING SYSTEMS.
- B. DATA OUTLET ROUGH-IN IS BY MODULAR BUILDING SYSTEMS.
- C. INCOMING ELECTRICAL AND FIBER SERVICES IS BY THE ELECTRICAL CONTRACTOR.
- D. DATA RACK, PATCH PANELS, CATEGORY 6 CABLES, CONNECTORS, AND FACEPLATES ARE BY THE ELECTRICAL CONTRACTOR.
- E. ALL FIRE ALARM DEVICES, WIRING, AND INTERCONNECTION TO THE SCHOOL FIRE ALARM SYSTEM IS BY ELECTRICAL CONTRACTOR.



DETAIL NOTES:

(1) BX IS ONLY PERMITTED FOR FIXTURE DROPS. DO NOT LOOP B/X FROM ONE FIXTURE TO ANOTHER.

2 LIGHTING DROP - DETAIL



GENERAL DETAIL NOTES:

1. NEW WALL INSTALLATION RUN CONDUIT FROM JUNCTION BOX DOWN TO FIRST DEVICE. 2. EXISTING WALL INSTALLATION RUN FLEX OR BX FROM JUNCTION BOX DOWN TO DEVICE

3. ALL CONDUITS ARE TO BE DIRECTLY SUPPORTED FROM SLAB.

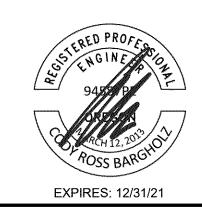
4. COORDINATE ROUTE WITH OTHER TRADES TO AVOID CONFLICTS WITH ACCESS.

3 POWER DROP DETAIL

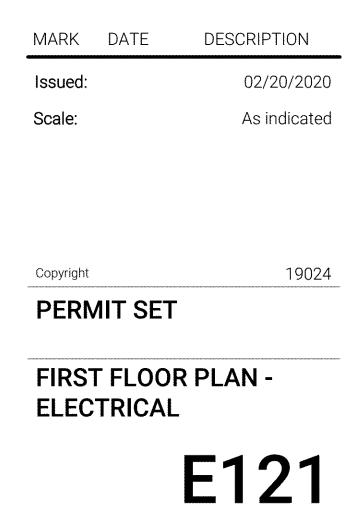
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E. CONNECTORS: WIRE NUTS FOR 12AWG TO 8AWG CONDUCTORS.

ACCEPTABLE.

APPROVED.

MATERIALS, MEANS AND METHODS FOR ELECTRICAL

A. SUBMITTALS: PROVIDE ELECTRONIC FORMAT VIA ZIP FILE VIA E-MAIL. NO MORE THAN ONE PDF PER SPECIFICATION SECTION. HIGHLIGHT PRODUCTS BEING SUBMITTED; UNMARKED CUTSHEETS WILL BE RETURNED AS REJECTED.

B. CONTINUITY OF SERVICE: MAINTAIN SERVICE TO EXISTING FACILITIES, INCLUDING TENANTS OUTSIDE OF AREA OF WORK, DURING CONSTRUCTION. WHERE INTERRUPTION IS NECESSARY FOR ADDITION OF NEW ELECTRICAL, SCHEDULE WITH BUILDING OWNER AND AFFECTED TENANTS OUTAGE TIME/DATA AT LEAST ONE WEEK AHEAD OF THE INTERRUPTION. OBTAIN WRITTEN PERMISSION FROM OWNER FOR ANY INTERRUPTION OF POWER, LIGHTING OR SIGNAL CIRCUITS AND SYSTEMS. PROVIDE OVERTIME AS PART OF CONTRACTED WORK TO AVOID INTERRUPTIONS DURING REGULAR BUSINESS HOURS FOR AFFECTED TENANTS.

C. WIRES: COPPER, 600 VOLT THROUGHOUT. 12 AND 10 AWG SOLID OR STRANDED. MINIMUM 90C INSULATION RATING: THWN-2, XHHW-2 OR THHN-2. COLOR CONDUCTORS (208Y/120-VOLT): BLACK FOR PHASE A, RED FOR PHASE B, BLUE FOR PHASE C, WHITE FOR NEUTRAL, GREEN FOR GROUND.

D. CONDUIT USE: EMT, MINIMUM 0.75-INCH FOR POWER AND 1-INCH FOR TELECOM, UNLESS OTHERWISE NOTED. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LFMC) FOR MOTORS, LUMINAIRES AND OTHER VIBRATING EQUIPMENT. KEEP RACEWAY AT LEAST 12-INCHES AWAY FROM HOT WATER LINES AND OTHER SURFACES >104F.

F. CONNECTOR USE: USE COMPRESSION FITTINGS IN ALL LOCATIONS. USE INSULATED, GROUNDING TYPE BUSHINGS FOR 60 AMP AND LARGER FEEDERS.

G. BOXES: 4-INCH OCTANGONAL BOX, 1.5-INCH DEEP FOR LUMINAIRES, 4-INCH SQUARE AND 1.5-INCHES DEEP FOR POWER. H. CLEAN INTERIOR OF BOXES AND LUMINAIRES AS WELL AS FRONT OF FACEPLATES TO REMOVE DUST, DEBRIS AND OTHER MATERIAL. CLEAN EXPOSED SURFACES AND RESTORE FINISH.

I. GROUNDING: EQUIPMENT GROUNDING CONDUCTOR, CODE SIZE MINIMUM IN NONMETALLIC AND METALLIC RACEWAY SYSTEMS. J. MC CABLE TO BE USED ONLY FOR LIGHTING WHIPS AND AS A SINGLE DROP TO A DEVICE. DAISY CHAINING BETWEEN DEVICES IS NOT

K. SUPPORT: DO NOT USE OTHER TRADE'S FASTENING DEVICES AS SUPPORTING MEANS FOR LUMINAIRES, EQUIPMENT OR MATERIALS. DO NOT FASTEN SUPPORTS TO PIPES, DUCTS, CONDUIT AND MECHANICAL EQUIPMENT. PROVIDE CHANNEL SUPPORT SYSTEMS FOR SUPPORTING MULTIPLE CONDUITS. SAFETY FACTOR OF 4 REQUIRED FOR EVERY FASTENING DEVICE OR SUPPORT FOR ELECTRICAL EQUIPMENT AND LUMINAIRES INSTALLED.

L. ON BACK OF FACEPLATE AND SWITCH PLATES, LEGIBLY WRITE CIRCUIT NUMBERS ROUTED TO OUTLET BOX IN PERMANENT INK. EXCEPTION: WITH 1/8-INCH HIGH COMPUTER SAN SERIF TEXT ON WHITE BACKGROUND ON ADHESIVE BACKING, PROVIDE LABEL ON FRONT OF FACEPLATE IN TELECOM/SERVER ROOMS AND WHERE DIRECTED BY OWNER.

M. PROVIDE UPDATED TYPEWRITTEN SCHEDULE ON PANELBOARDS AFFECTED BY REMODEL WORK UNDER THIS CONTRACT.

N. TOGGLE TYPE SWITCHES: 120V, 20A, LEVITON 1221 SERIES, P&S, HUBBELL OR APPROVED. FINISH TO MATCH POWER OUTLETS. O. WIRING DEVICES: PROVIDE COMMERCIAL GRADE RECEPTACLES, 125 VOLT, 20-AMP, COOPER 5362, HUBBELL, BRYANT, LEVITON, P&S OR APPROVED. FINISH TO MATCH EXISTING, ELSE GREY FINISH. TEST DEVICES FOR CONTINUITY AND GROUNDING PRIOR TO COMPLETION. P. FACEPLATES: 302 STAINLESS STEEL FOR POWER OUTLETS AND WALL SWITCHES AND WALL SWITCH/SENSORS.

Q. OCCUPANCY SENSORS: DUAL-TECHNOLOGY, MINIMUM 1000 SF COVERAGE PER SENSOR FOR HALF-STEP MOTION FOR BOTH TECHNOLOGIES (PASSIVE INFRARED AND ULTRASONIC). LOCATED AS DIRECTED BY MANUFACTURER, NO CLOSER THAN 60-INCHES FROM SUPPLY OR RETURN AIR DIFFUSER. WATTSTOPPER DT-300 SERIES, LEVITON, HUBBELL, GREENGATE, SENSOR SWITCH OR

R. WALL SWITCH/SENSOR (IN STORAGE 306B): DUAL-TECH (PIR AND ULTRASONIC) TECHNOLOGY. 120/277VAC DUAL RATING. WATTSTOPPER DW-100 SERIES, OR APPROVED.

S. SHOULD ACTUAL FIELD CONDITIONS REQUIRE INDICATED CIRCUIT DESIGNATIONS TO VARY, INDICATE THE CIRCUIT NUMBER USED ON THE "AS-BUILT" DRAWINGS.

T. WALL DIMMER: 0-10 VOLT DIMMING WITH ON/OFF RELAY FUNCTION AND 3-WAY DIMMING CAPABILITY. PROGRAMMABLE LOW END TRIM, HIGH END TRIM, FADE-TO-DIM SETTINGS. POWER FAILURE MEMORY FOR SETTINGS. SUPPRESSION FOR INTERFERENCE WITH RADIO/TV. LED INDICATORS FOR PERCENT DIMMING ACTIVE. LUTRON MAESTRO SERIES OR APPROVED. U. TELECOM OUTLETS: PROVIDE MINIMUM 2-1/8-INCH DEEP., 4-INCH SQUARE GALVANIZED STEEL BOXES WITH SINGLE-GANG PLASTER

RINGS. PROVIDE KNOCKOUT CLOSURES FOR UNUSED OPENINGS. USE STAMPED STEEL STUD BRIDGES FOR FLUSH OUTLET BOXES IN HOLLOW STUD WALLS.

V. TELECOM RACEWAY: USE MINIMUM 1-INCH CONDUIT WITH MINIUM 11-INCH INSIDE BEND RADIUS. NO MORE THAN 180-DEGREE BENDS BETWEEN PULL POINTS AND/OR PULL BOXES. USE INSULATED THROAT BUSHINGS ON BOTH ENDS OF CONDUIT SLEEVES. WHERE NOT SHOWN ON DRAWINGS, PROVIDE CONTINUOUS CONDUIT SLEEVING THROUGH WALLS AND FLOORS TO PROVIDE CONTINUOUS PATHWAY TO NEAREST IT ROOM. MAINTAIN SMOKE AND FIRE RATINGS OF WALLS AND FLOORS.

W. TELECOM CABLE: 100-OHM, CATEGORY 6A, 4-PAIR UNSHIELDED TWISTED PAIR, CMP RATED JACKET, COLOR BLUE FOR WORKSTATIONS AND YELLOW FOR WAP'S.

X. TELECOM JACKS: CAT 6A MODULAR JACKS. IDC TERMINALS. T568A/B WIRING SCHEME. PROVIDE DUST COVER FOR MODULAR OPENINGS. COLOR TO MATCH FACEPLATE. JACKS TO BE ORTRONICS CAT. NO. OR-HDJ6A. COLOR'S TO BE AS FOLLOWS: WORKSTATION TO BE FOG WHITE; PATCH PANEL TO BE BLACK; WAP'S TO BE YELLOW; WAP PATCH PANEL TO BE YELLOW; CAMERAS TO BE GREEN; CAMERA PATCH PANEL TO BE GREEN.

Y. FACEPLATE: HIGH IMPACT THERMOPLASTIC, WITH RECESSED LABEL FIELDS, MOUNTS WITHIN SINGLE-GANG WALL BOX. 2 PORT. ORTRONICS CAT. NO. OR-403HDJ12.

Z. PATCH PANEL: 2U 48 PORT CATEGORY 6A RATED. ORTRONICS CAT. NO. OR-PSDHJU48.

AA. TELECOM CABLE INSTALL: BEFORE INSTALLING CABLE, ENSURE PATHWAYS ARE COMPLETE CLEANED. PROVIDE CABLE TIES AND CABLE MANAGEMENT CLAMPS BY HAND SO CABLE FITS SNUGLY. WHERE POSSIBLE, ROUTE THROUGH EXISTING WIRE BASKET TRAYS. CO-INSTALL A PULL CORD (NYLON, 1/8-INCH MINIMUM) WITH CABLE INSTALLED IN CONDUIT. WHERE J-HOOKS ARE USED TO SUPPORT CABLES, SUPPORT THEM AT MAXIMUM 48 TO 60-INCH INTERVALS. DO NOT REST CABLE ON ACOUSTIC TILE OR GYPBOARD CEILING, AND PROVIDE SUPPORTS FOR CABLES INDEPENDENT OF OTHER TRADES. DO NOT BEND TIGHTER THAN CABLE MINIMUM BEND RADIUS OR PULLING TENSION, OR EXCEED 25LBS PULL TENSION PER 4-PAIR UTP CABLE. DO NOT LOCATE CLOSER THAN 12-INCHES BY ANY LUMINAIRE OR 36-INCHES TO ANY ELECTRICAL EQUIPMENT, MOTOR OR TRANSFORMER.

BB. TELECOM OUTLET INSTALL: DRESS AND TERMINATE CABLES PER ANSI/TIA/EIA-568-C.1 DOCUMENT. TERMINATE USING T568B WIRING SCHEME. DO NOT EXCEED 0.5-INCH PAIR UNTWIST AT TERMINATION POINT. DO NOT EXCEED 4 TIMES OUTSIDE DIAMETER OF CABLE IN TERMINATION AREA FOR BEND RADIUS COMPLIANCE. TEST CABLES WITH LEVEL IV TEST UNIT FOR CAT 6 PERFORMANCE PER ANSI/TIA/EIA-568 C, INCLUDING CONTINUITY, LENGTH, WIRE MAP, ATTENUATION, NEXT, RETURN LOSS, ELFEXT, PROPAGATION DELAY, DELAY SKEW, PSNEXT, PSELFEXT. PROVIDE RESULTS TO OWNER IN ELECTRONIC FORMAT INCLUDING CIRCUIT ID, TEST RESULT (PASS/FAIL), DATE/TIME OF TEST, PROJECT NAME, NVP.

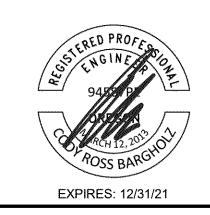
CC. TELECOM CABLE LABELING: LABEL HORIZONTAL CABLES WITH MACHINE PRINTED LABEL AT EACH END 12-INCHES AND 48-INCHES FROM TERMINATION POINT. LABEL PATCH PANEL PORTS AND TO PORTS WITH CABLE IDENTIFIER. PROVIDE FINAL CABLE ID MATRIX TO OWNER ONE WEEK PRIOR TO CABLE INSTALLATION. DENOTE THE TO ID, AS WELL AS UNIQUE CABLE NUMBER FOR TO, E.G. A-001-A FOR CABLE 1, A-001-B FOR CABLE 2, ETC.

DD. FIRE ALARM SYSTEM: MODULAR FIRE ALARM SYSTEMS INDICATED ON DRAWINGS ARE CONTRACTOR DESIGNED SYSTEMS. COST FOR CONTRACTOR DESIGNED SYSTEM IS TO BE CARRIED BY ELECTRICAL CONTRACTOR. FIRE ALARM CONTRACTOR TO CONFIRM SCHOOL FIRE ALARM PANEL LOCATION AND SYSTEM REQUIREMENTS ONSITE PRIOR TO BID. DESIGN SYSTEMS IN COMPLIANCE WITH CODE AS INTERPRETED BY THE AHJ.

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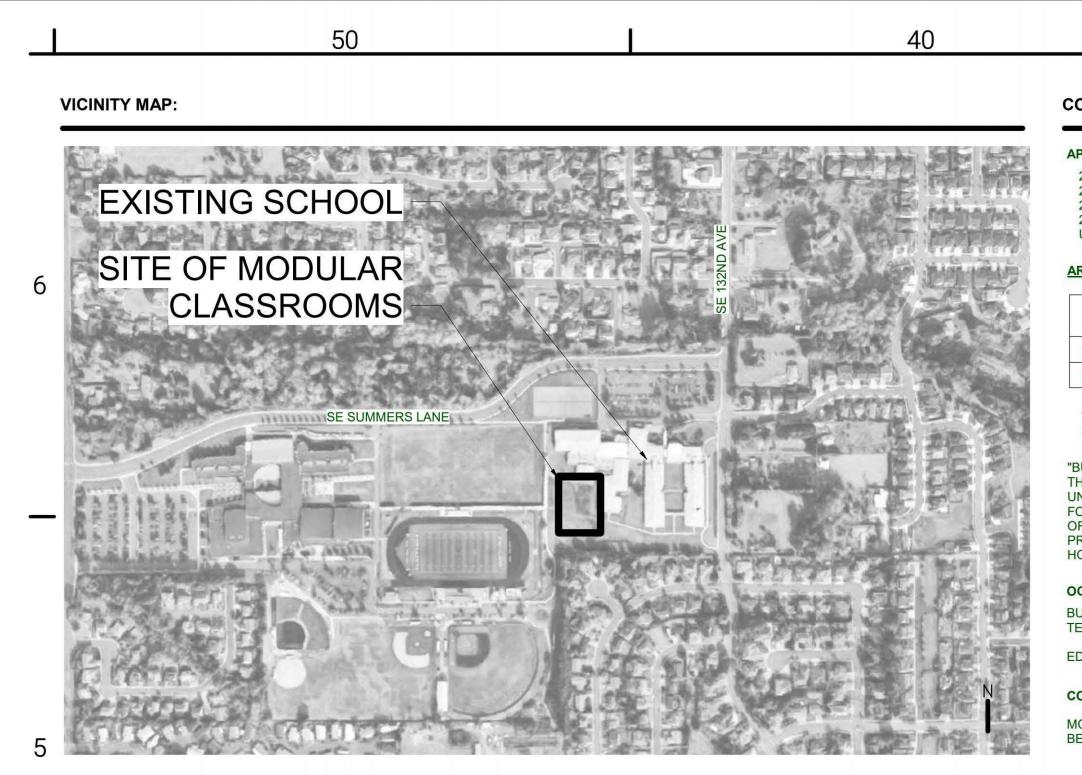
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CODE INFORMATION

APPLICABLE CODES & STANDARDS 2019 OREGON STRUCTURAL SPECIALTY CODE

2019 OREGON MECHANICAL SPECIALTY CODE 2017 OREGON PLUMBING SPECIALTY CODE (2012 IPC WITH AMENDMENTS) 2017 OREGON ELECTRICAL SPECIALTY CODE (2017 NEC WITH AMENDMENTS) US ADAAG ACCESSIBILITY GUIDELINE/ANSI A117.1

AREA CALCULATIONS FOR TEMPORARY MODULAR BUILDINGS

AREA NAME	AREA OCCUPANCY	AREA (GROSS SQUARE FEET)
MODULAR 1	E	1,792 SF
MODULAR 2	E	1,792 SF

TOTAL GROSS SF OF MODULAR BUILDINGS

"BUILDING AREA, GROSS" IS DEFINED IN CHAPTER 2 OF 2014 OSSC AS: THE FLOOR AREA WITHIN THE INSIDE PERIMETER OF THE EXTERIOR WALLS OF THE BUILDING UNDER CONSIDERATION, EXCLUSIVE OF VENT SHAFTS AND COURTS, WITHOUT DEDUCTION FOR CORRIDORS, STAIRWAYS, CLOSETS, THE THICKNESS OF INTERIOR WALLS, COLUMNS, OR OTHER FEATURES. THE FLOOR AREA OF A BUILDING, OR PORTION THEREOF, NOT

3,584 SF

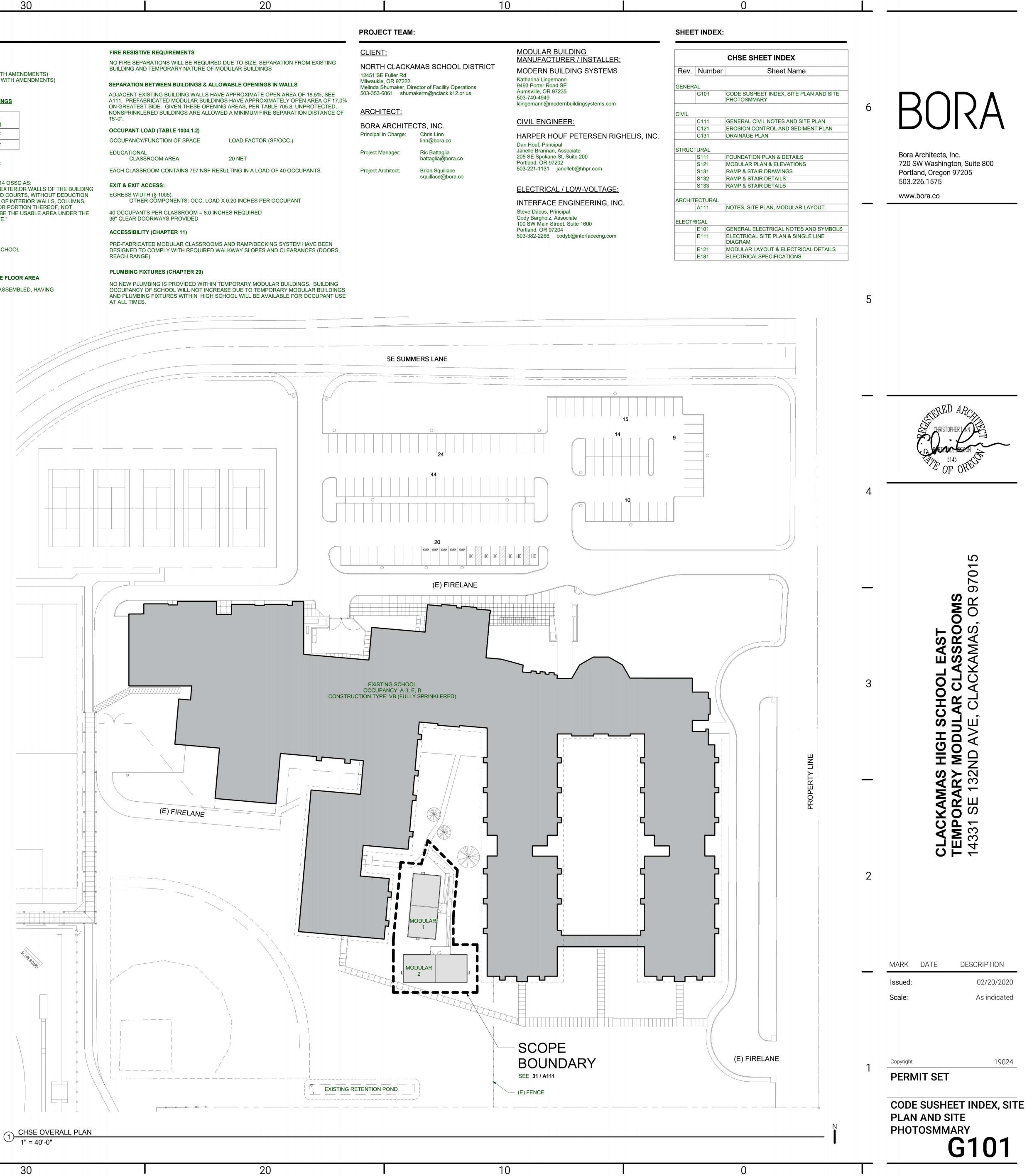
PROVIDED WITH SURROUNDING EXTERIOR WALLS SHALL BE THE USABLE AREA UNDER THE HORIZONTAL PROJECTION OF THE ROOF OR FLOOR ABOVE."

OCCUPANCY (CHAPTER 3) BUILDING CLASSIFICATION:

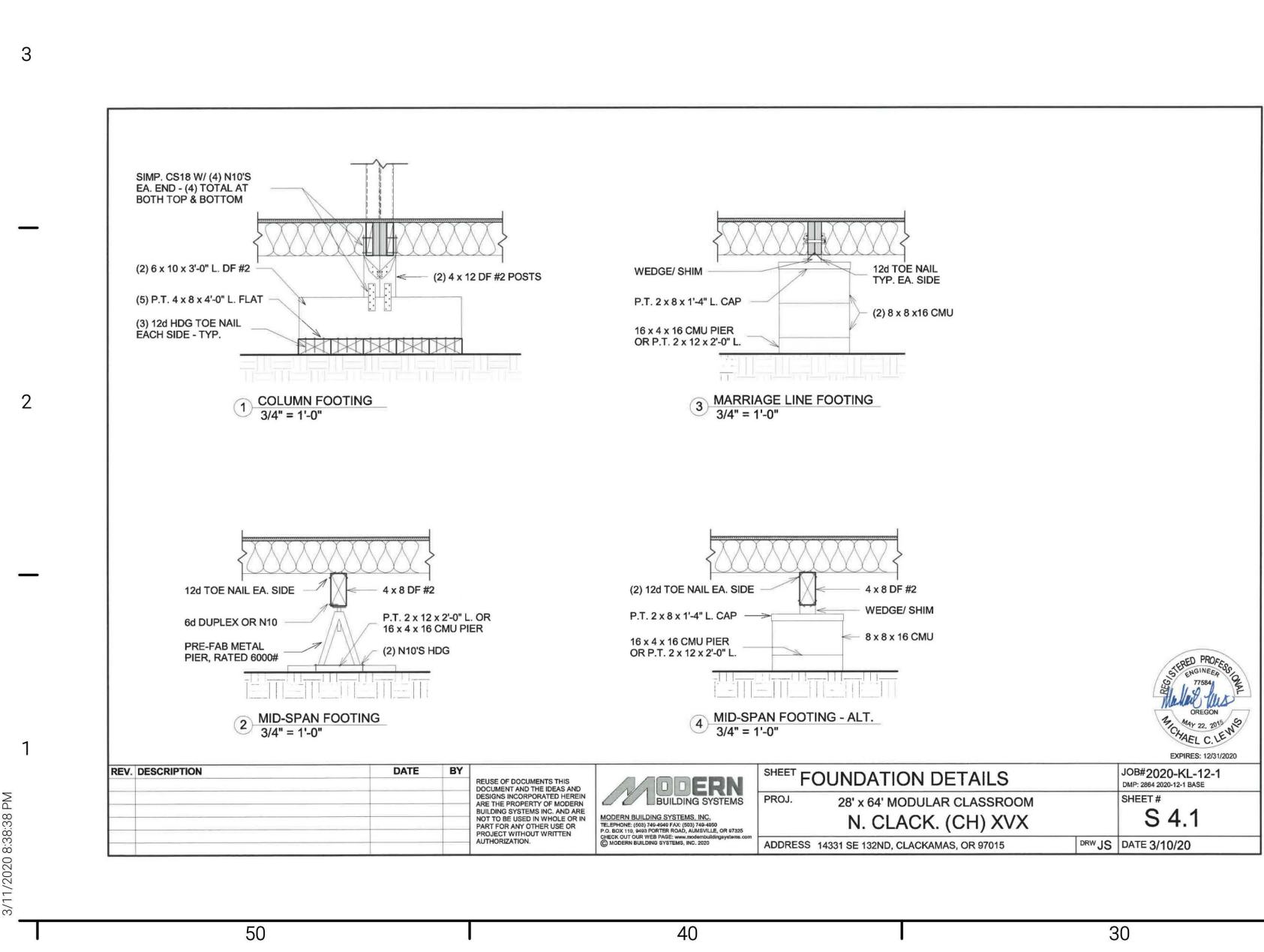
TEMPORARY MODULAR BUILDING SERVING PUBLIC HIGH SCHOOL EDUCATION F

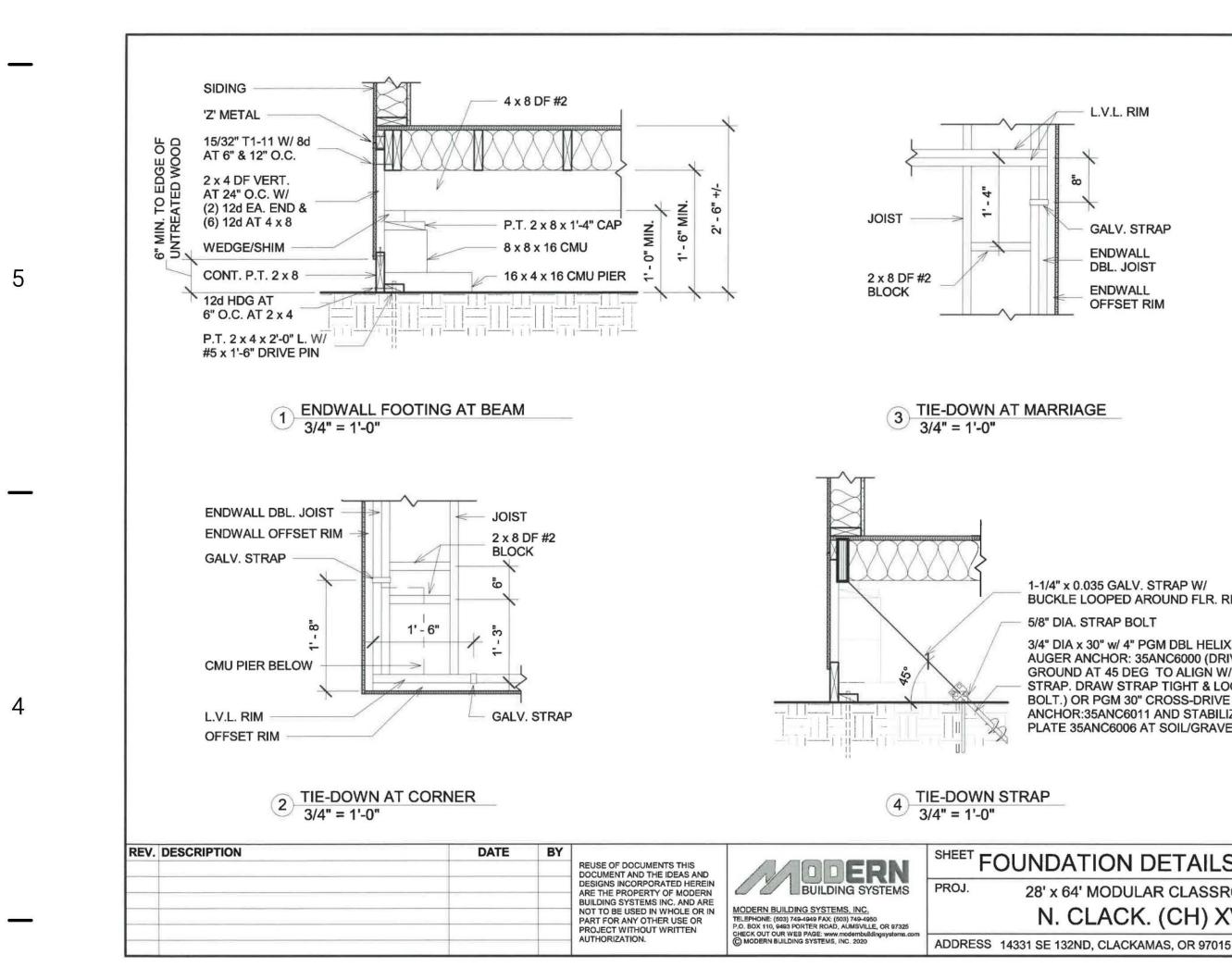
CONSTRUCTION TYPE, BUILDING HEIGHT AND ALLOWABLE FLOOR AREA

MODULAR STRUCTURES WILL BE BROUGHT TO SITE PRE-ASSEMBLED, HAVING BEEN INDEPENDENTLY DESIGNED AND PERMITTED.



30

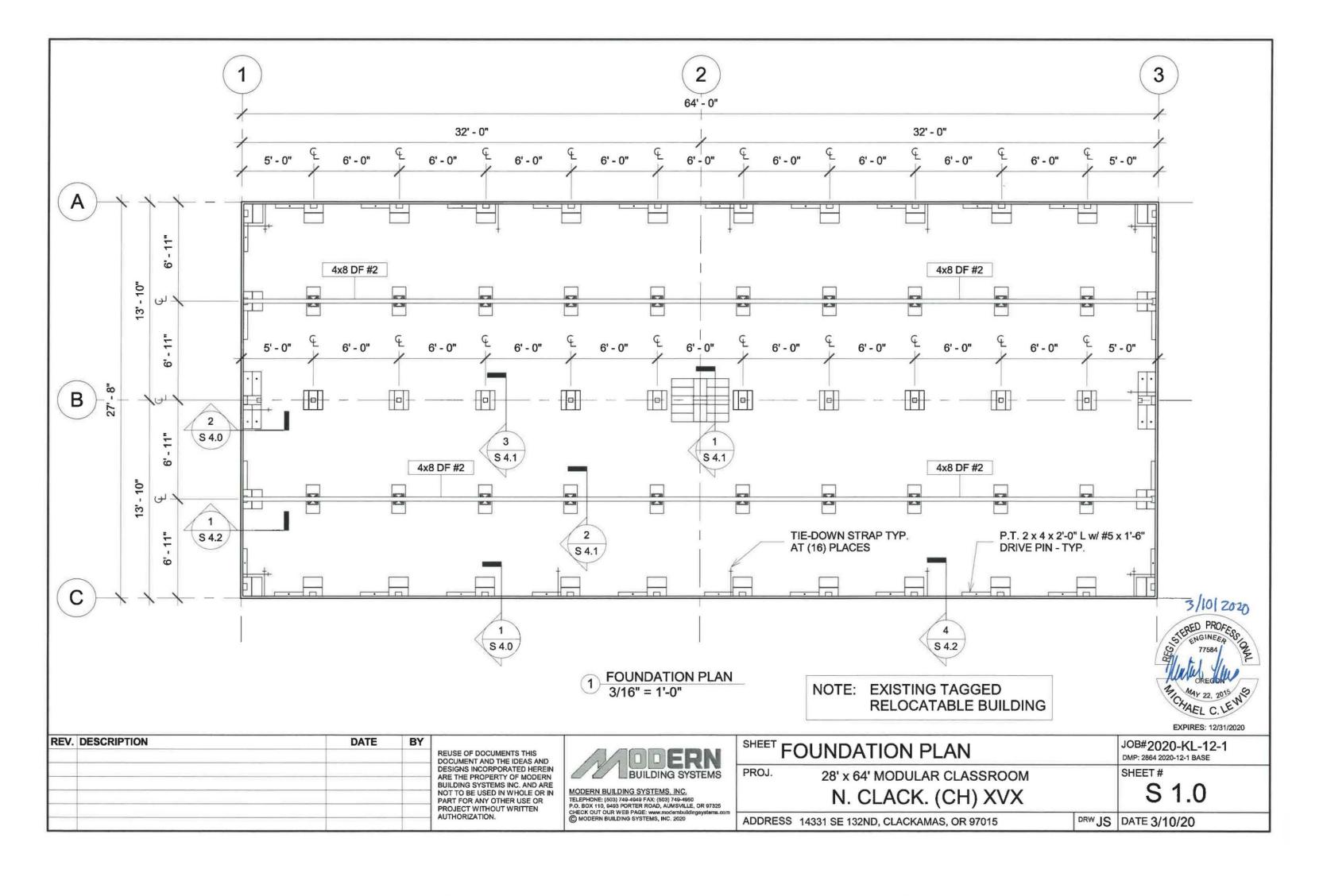


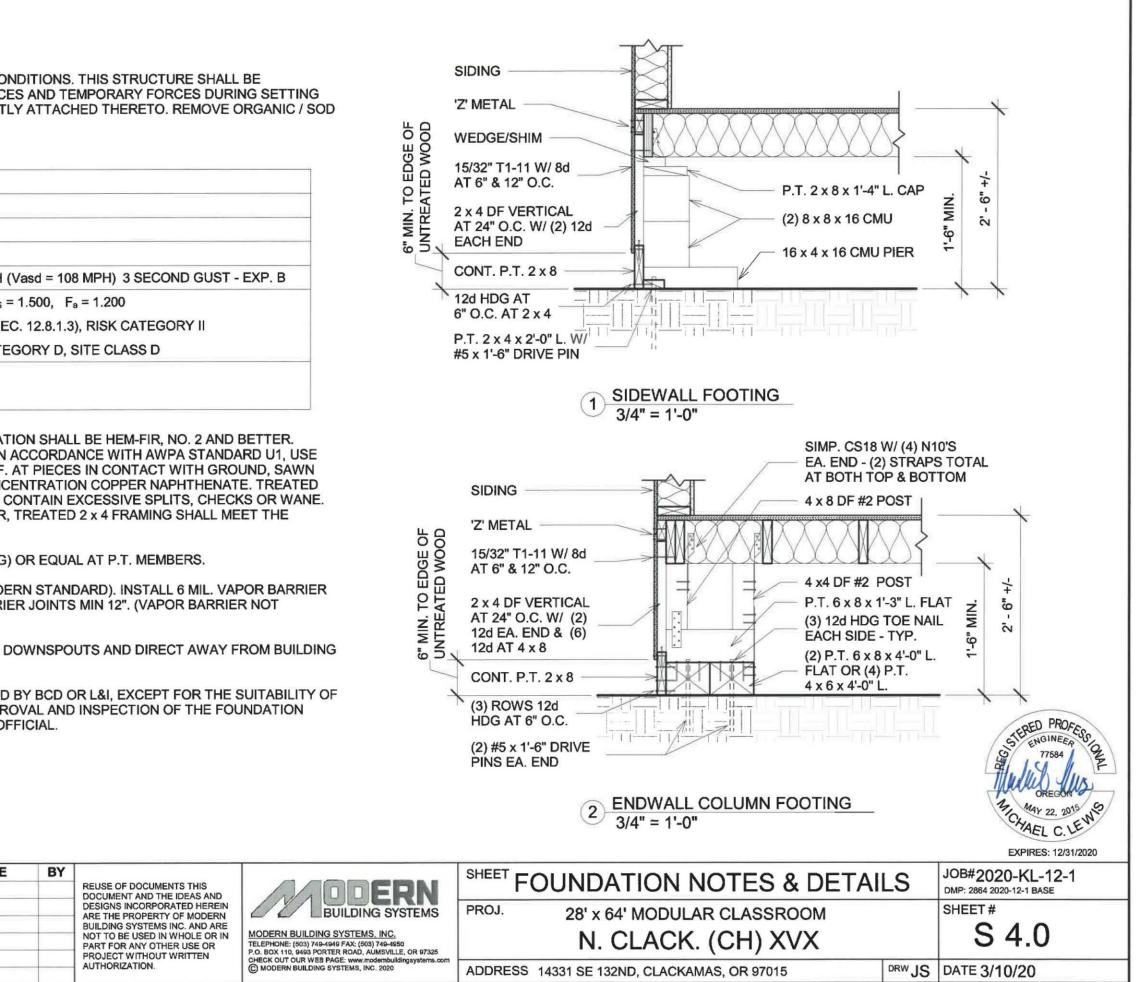


L.V.L. RIM		
DOWN AT MARRIAGE ' = 1'-0"		
1-1/4" x 0.035 GALV. STRAP W/ BUCKLE LOOPED AROUND FLR. RIM 5/8" DIA. STRAP BOLT 3/4" DIA x 30" w/ 4" PGM DBL HELIX AUGER ANCHOR: 35ANC6000 (DRIVE IN GROUND AT 45 DEG TO ALIGN W/ STRAP. DRAW STRAP TIGHT & LOCK BOLT.) OR PGM 30" CROSS-DRIVE ANCHOR:35ANC6011 AND STABILIZER PLATE 35ANC6006 AT SOIL/GRAVEL	SERED PROFESS ENGINEER 77584	
DOWN STRAP ' = 1'-0"	OREGON May 22, 2015 EXPIRES: 12/31/2020	
ROJ. 28' x 64' MODULAR CLASSROOM N. CLACK. (CH) XVX	JOB#2020-KL-12-1 DMP: 2864 2020-12-1 BASE SHEET # S 4.2	

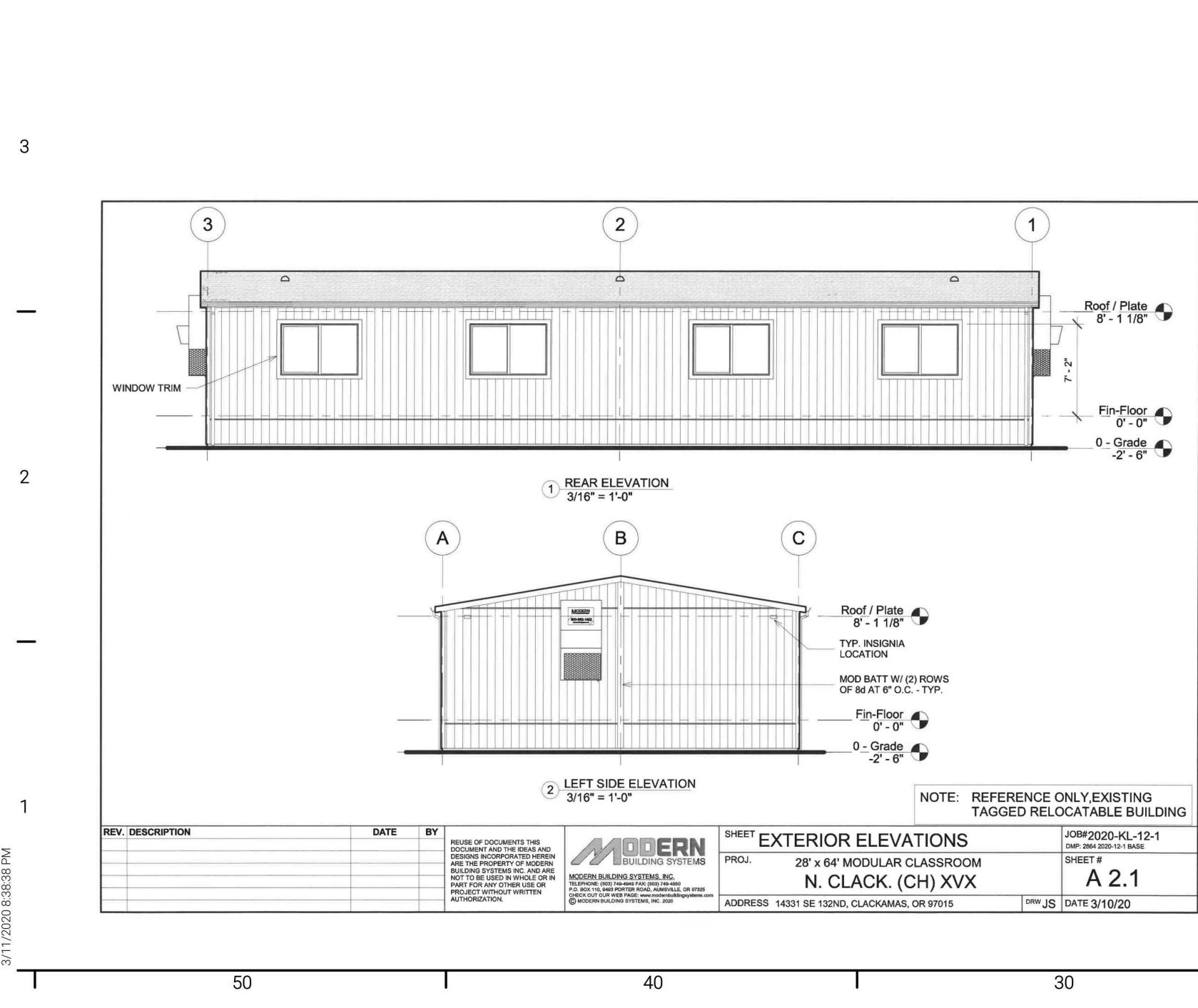
DRW JS DATE 3/10/20

REQUI 6. CON PAD TO 7. FOU THE DE	RED AT ASPHALT O INECT STORM WAT O AN APPROVED DR INDATION PLANS AI ESIGN TO SUPPORT	R CONCRETE IF OCCURS) ER FROM ROOF GUTTERS AND D	E
TREAT CATEG END GI PLATE 2 x 4 FF REQUII 4. ALL 5. VEN	ED LUMBER SHALL ORY UC4A, TO A MI RAIN SHALL BE FIEL STOCK SHALL BE F RAMING SHALL BE F REMENTS SPECIFIE FASTENERS TO BE	MENSION LUMBER FOR FOUNDAT BE ACQ PRESSURE TREATED IN NIMUM RETENTION OF 0.40 PCF. D TREATED WITH 2% MIN. CONC GOOD QUALITY AND SHALL NOT C HEM-FIR, STANDARD OR BETTER, D ABOVE. HOT DIPPED GALVANIZED (HDG) (6) 15" SQ. METAL VENTS (MODE RAWL SPACE, LAP VAPOR BARRII	
	OWABLE BEARING	1800 PSF AT GRAVEL	
		S_{DS} = 1.000 (PER ASCE 7-16 SE I_e = 1.0, SEISMIC DESIGN CATE	
SEIS		BEARING WALL SYSTEM: S _S =	
	D LOAD	Lambda = 1.0 Vult = 140 MPH (ſV
	OR DEAD LOAD	10 PSF 50 PSF	
ROC	F SNOW LOAD	25 PSF	
	F DEAD LOAD	12 PSF	

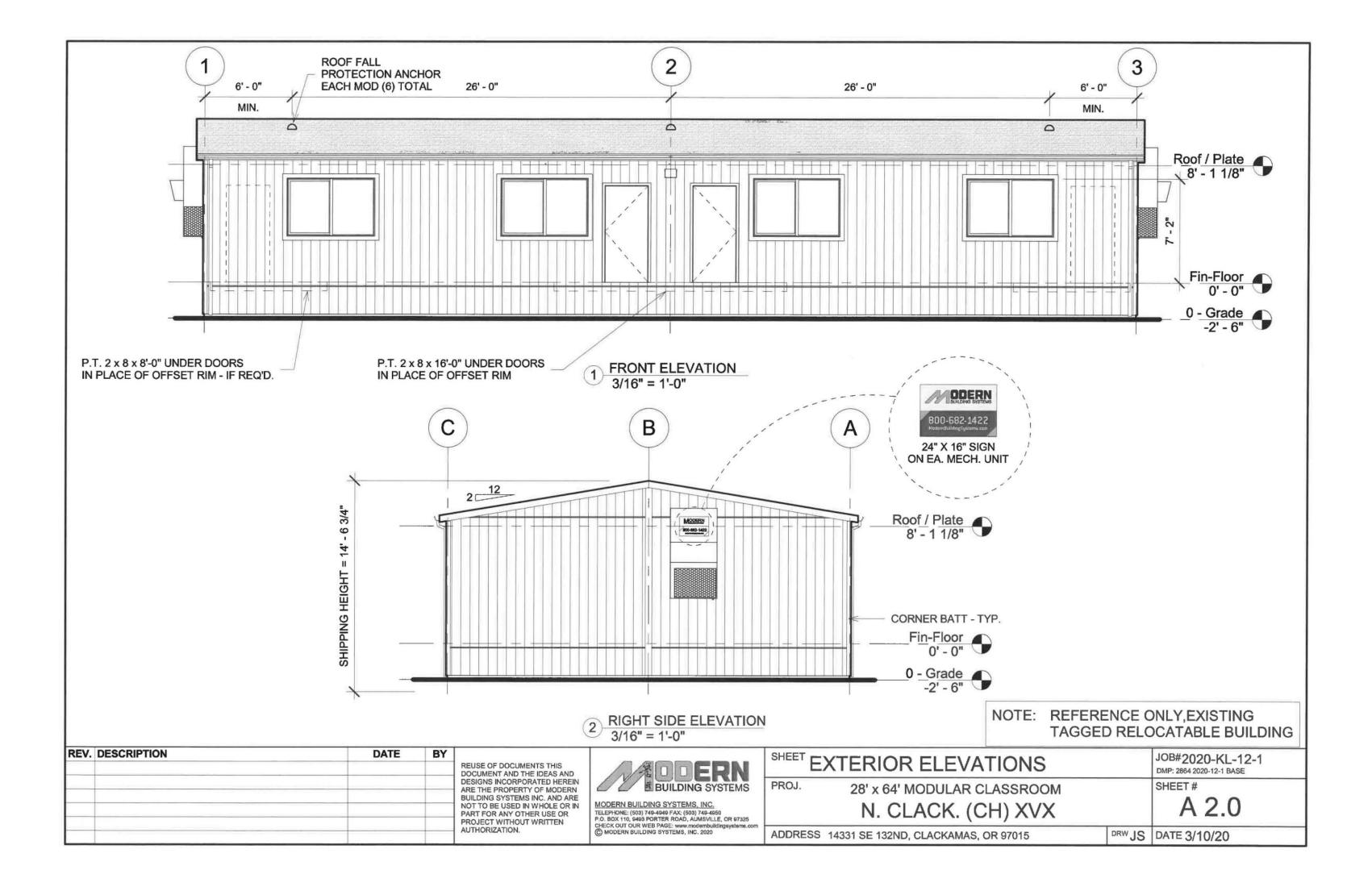


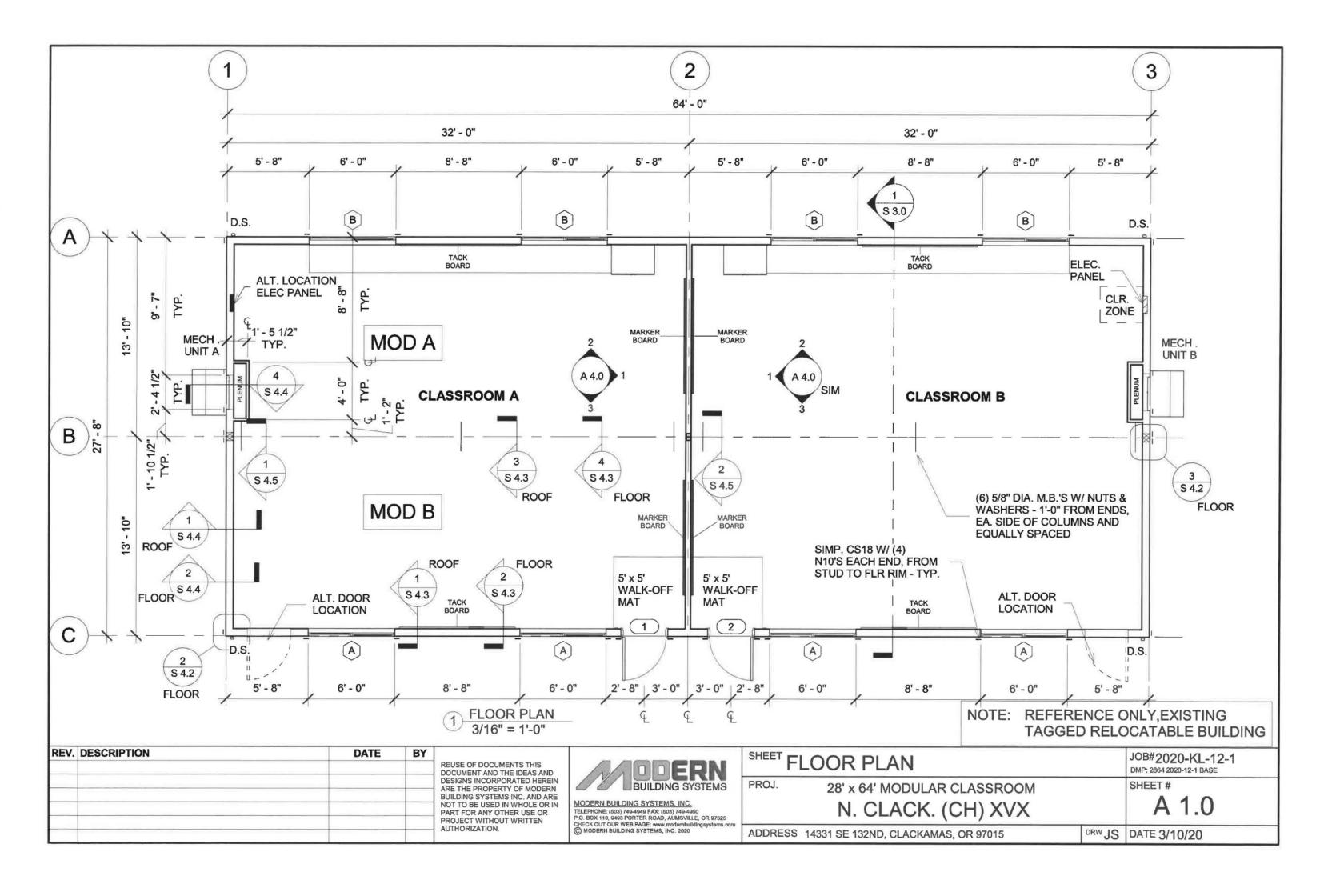


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4	MODERN BUILDING SYSTEMS, INC. TELEPHONE: (503) 749-4949 FAX (503) 749-4950 P.O. BOX 110, 9493 PORTER ROAD, AUMSVILLE, OR 97325 CHECK OLT OUR WEB PAGE: www.modembuildingsystems.com © MODERN BUILDING SYSTEMS, INC. 2019
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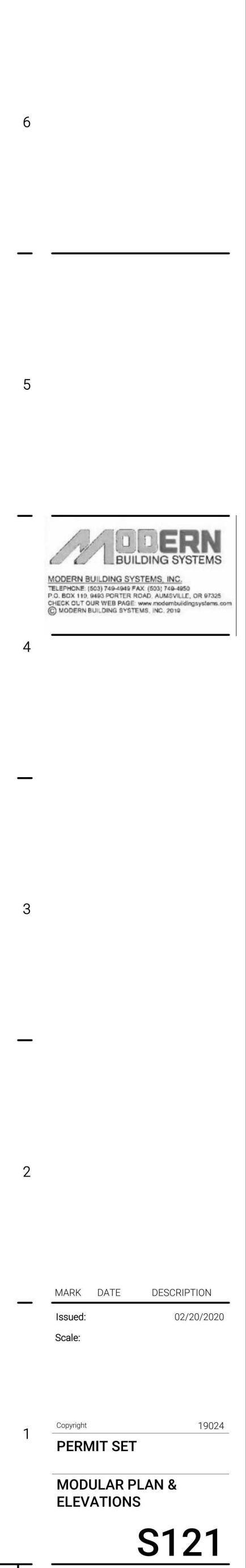


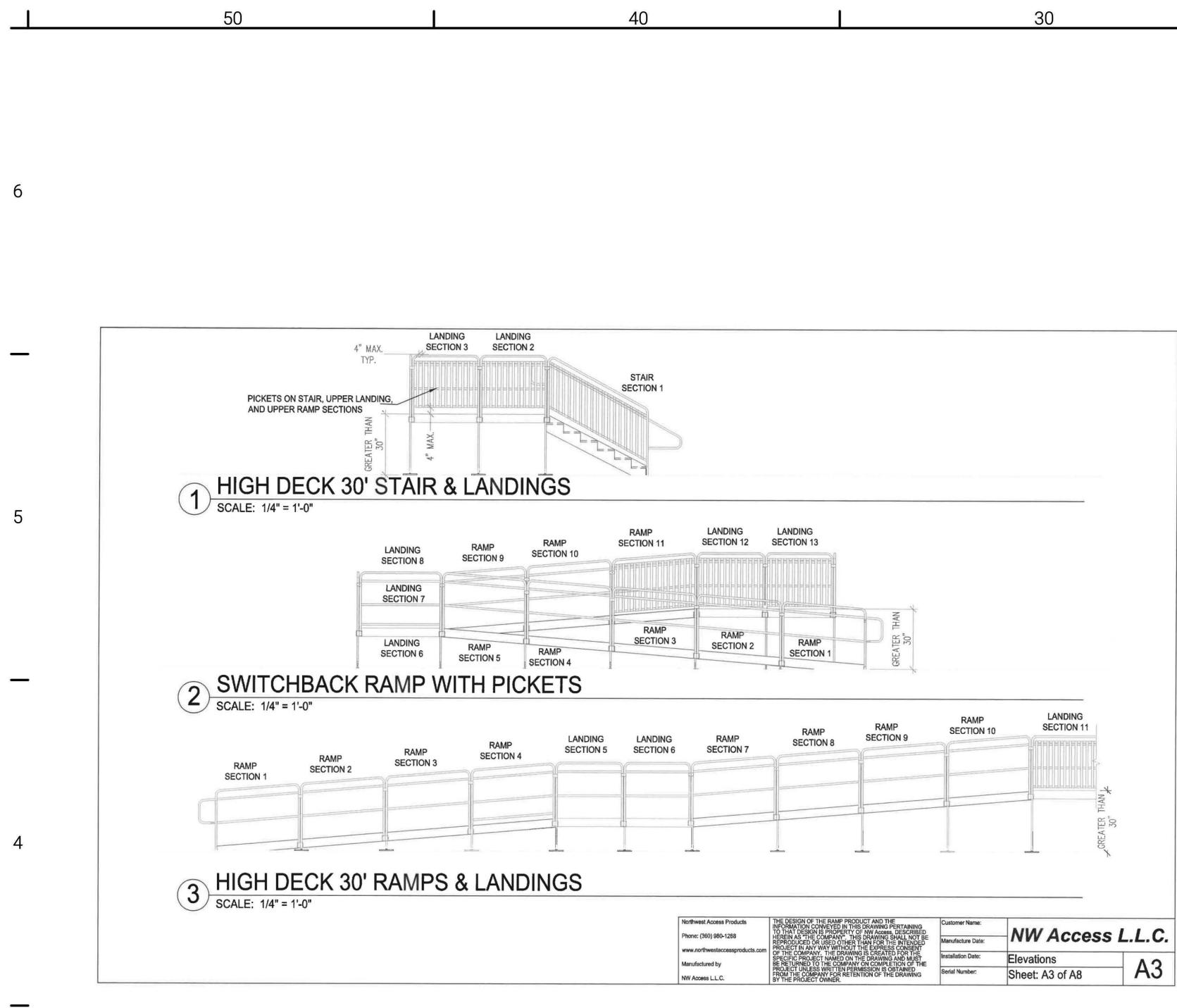
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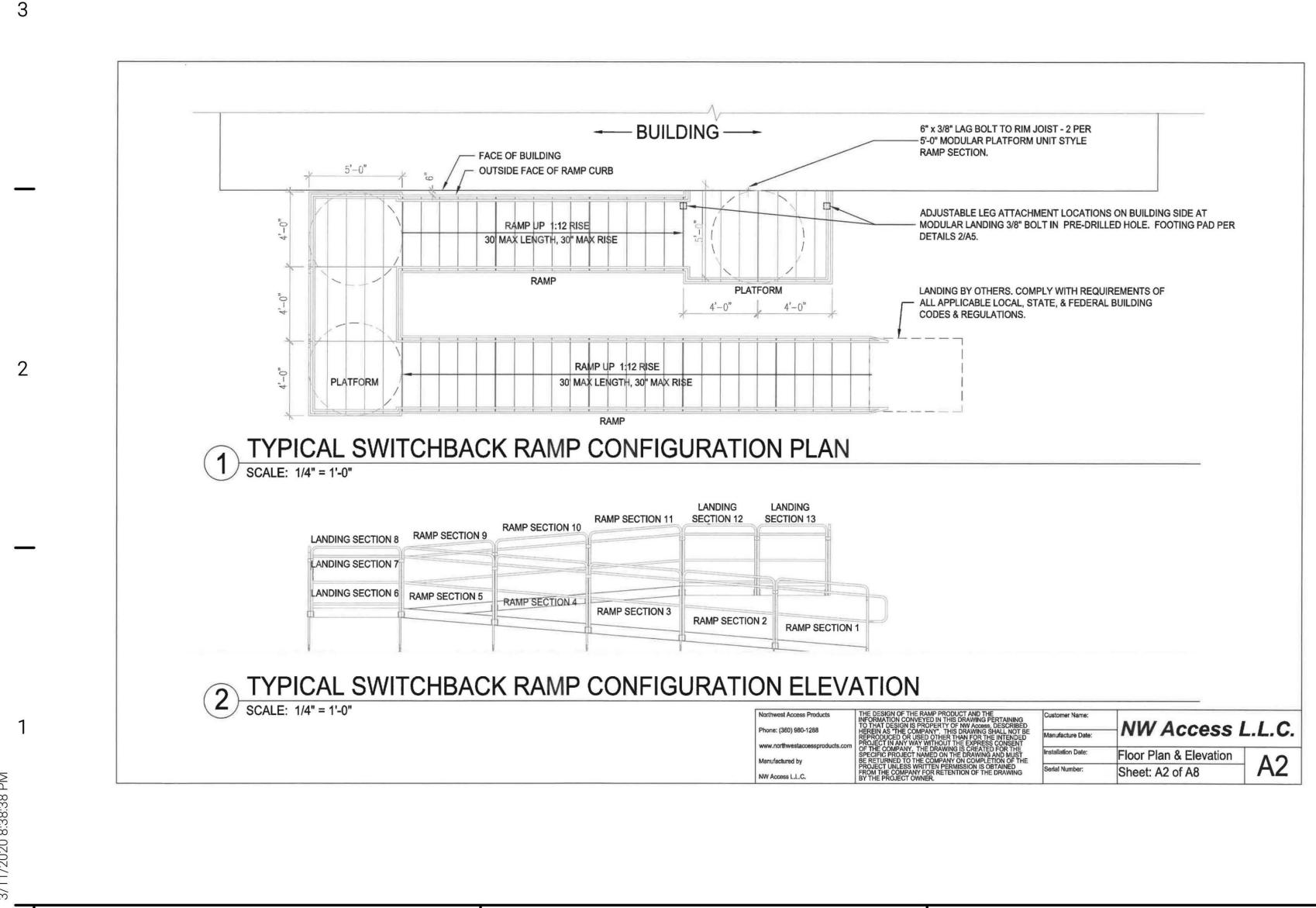




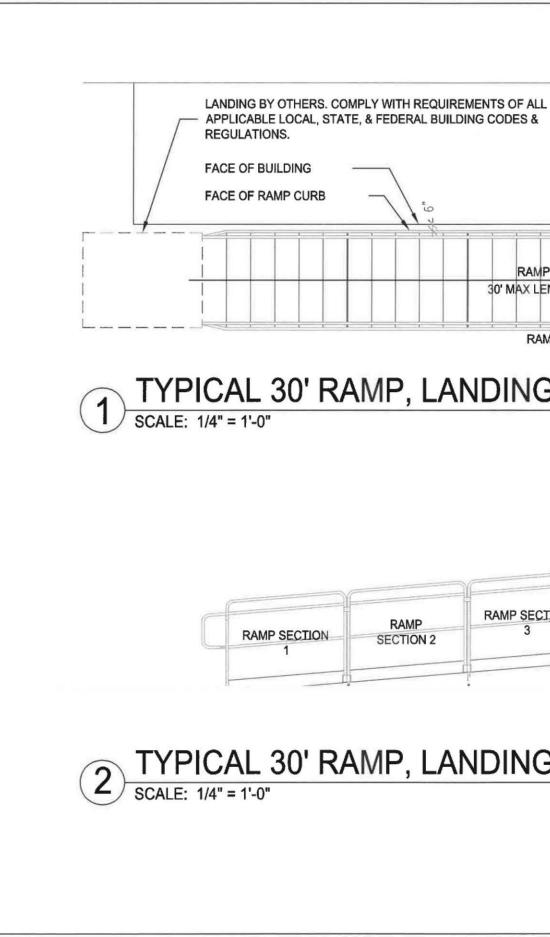
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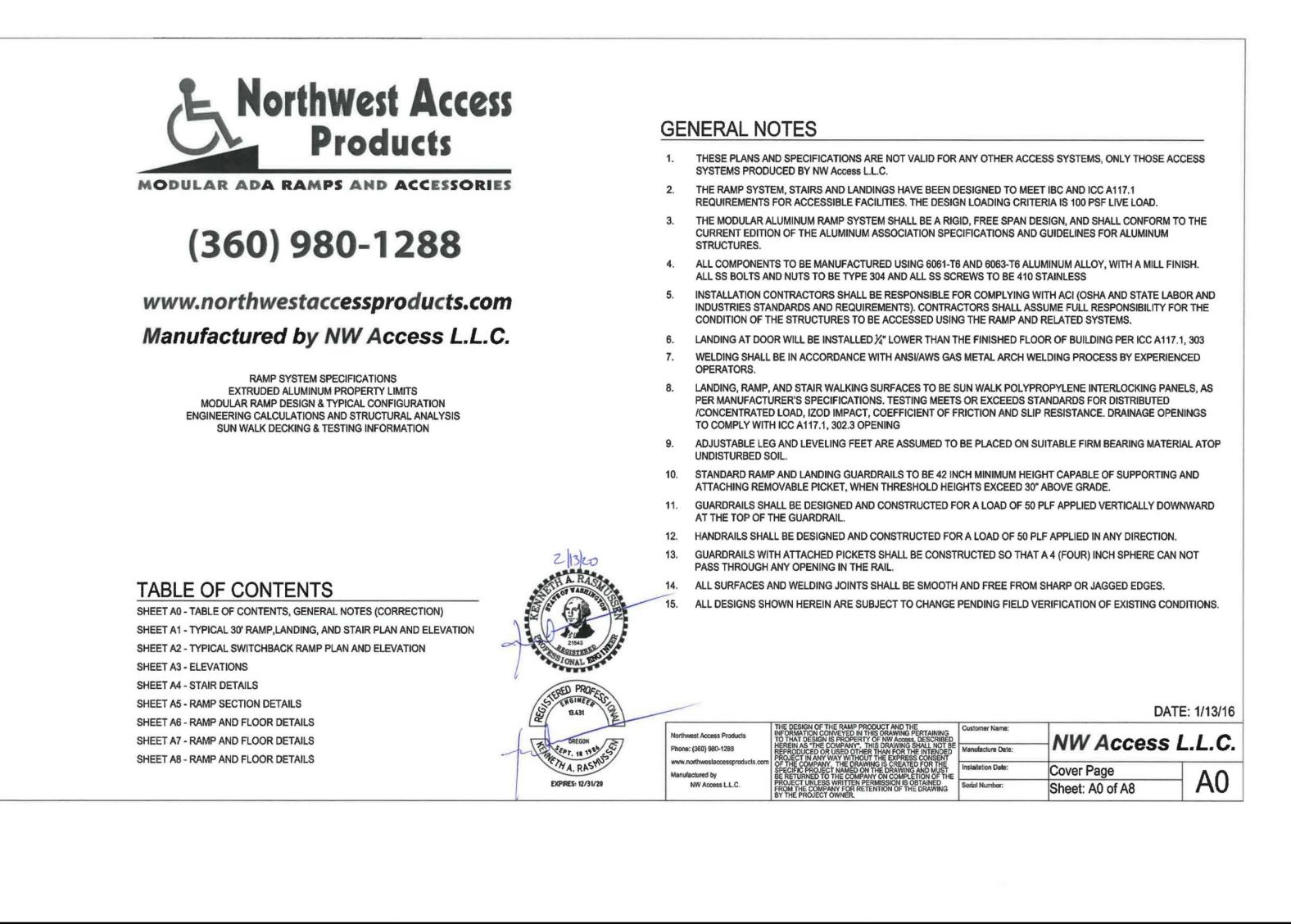






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6" x 3/8" LAG BOLT TO RIM JOIST - 2 PER 4'-0" MODULAR PLATFORM -BUILDING ----UNIT STYLE RAMP SECTION. ADJUSTABLE LEG ATTACHMENT LOCATIONS ON BUILDING SIDE AT PER DETAIL 2/A5. RAMP UP 1:12 RISE STAIR UP 30' MAX LENGTH, 30" MAX RISE RAMP STAIR PLATFORM 4^{*}-0" 4^{*}-0" 1 TYPICAL 30' RAMP, LANDING, AND STAIR PLAN SCALE: 1/4" = 1'-0" LANDING SECTION 7 LANDING SECTION 8 RAMP RAMP SECTION 6 STAIR SECTION RAMP SECTION 5 RAMP SECTION SECTION 4 9 RAMP SECTION 2 2 TYPICAL 30' RAMP, LANDING, AND STAIR ELEVATION SCALE: 1/4" = 1'-0" Northwest Access Products NW Access L.L.C. Phone: (360) 980-1288 Manufacture Date PROJECT IN ANY WAY WITHOUT THE EXPRESS CONSENT PROJECT IN ANY WAY WITHOUT THE EXPRESS CONSENT OF THE COMPANY. THE DRAWING IS CREATED FOR THE SPECIFIC PROJECT NAMED ON THE DRAWING AND MUST BE RETURNED TO THE COMPANY ON COMPLETION OF THE PROJECT UNLESS WRITTEN PERMISSION IS OBTAINED FROM THE COMPANY FOR RETENTION OF THE DRAWING BY THE PROJECT OWNER. www.northwestacce Installation Date: Floor Plan & Elevation A1 Manufactured by

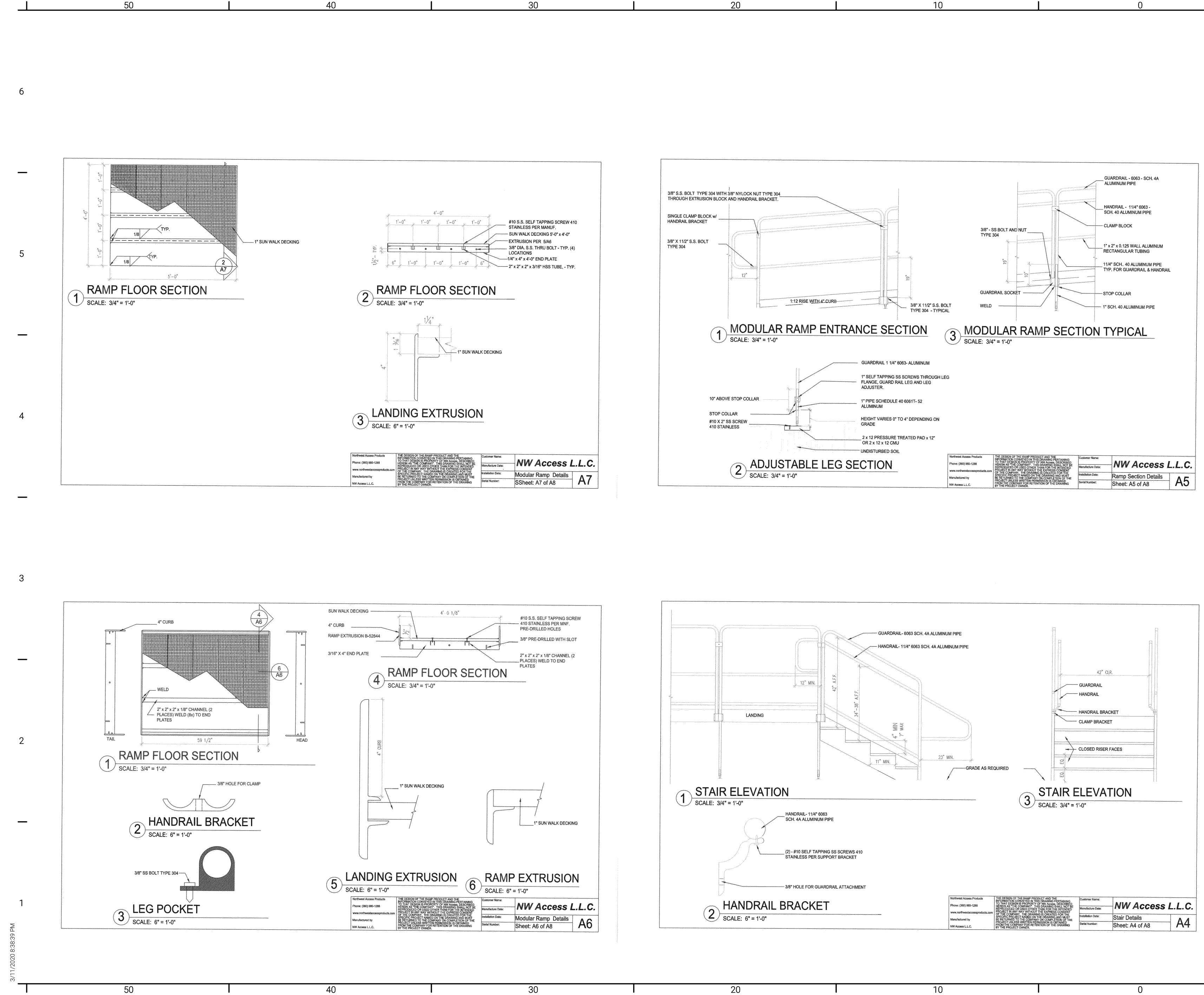
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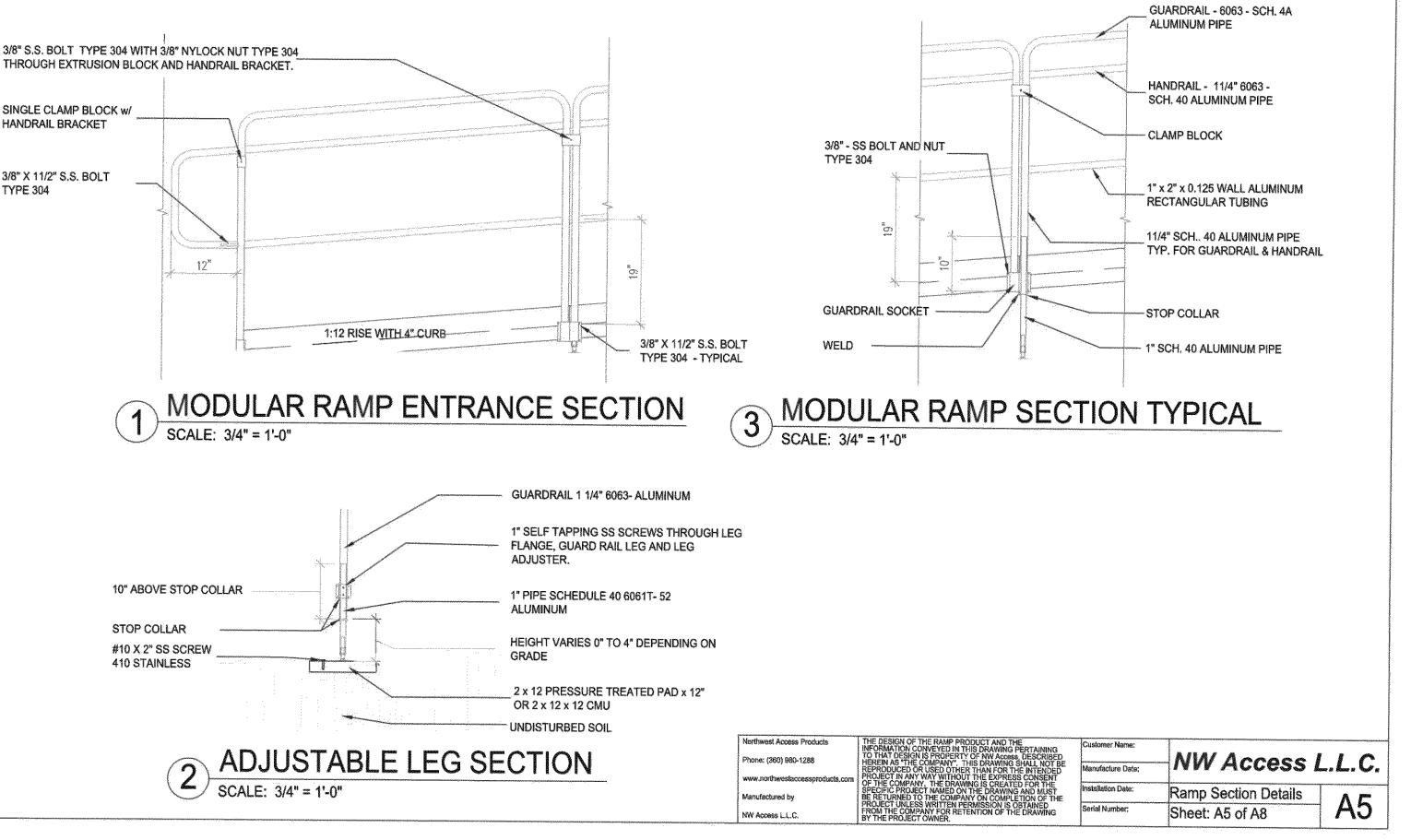
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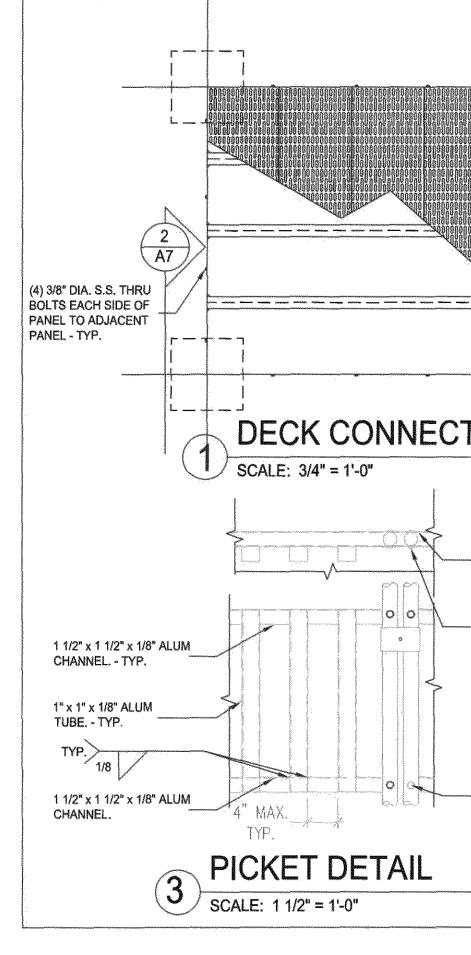




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	TYP. 1/8	" SUN WALK DECKING ANEL END LATE 3/8" DIA. SS THRU BOLT TYPE 304 - TYP. EXTRUSION PER DETAIL 5/A6
TION DETAIL	MIN 14" SQ CONC. BEARING BLOCK AT INTERIOR DECK PLATFORM SUPPORTS STAIR THREAD CONN SCALE: 3" = 1'-0"	1" PIPE SCH. 40 ALUMINUM #10 X 2" SS SCREW JECTION
COPE CHANNEL AT GUARDRAIL 3/8" DIA. SS THRU BOLT TYPE 304 - TYP.		
3/8" DIA. SS THRU BOLT TYPE 304 - TYP.	Northwest Access Products THE DESIGN OF THE RAMP PRODUCT AND THE INFORMATION CONVEYED IN THIS DRAWING PERTAINING INFORMATION CONVEYED IN THIS DRAWING PERTAINING TO THAT DESIGN IS PROPERTY OF NW Access, DESCRIBED Network, northwestaccessproducts.com www.northwestaccessproducts.com HEREIN AS 'THE COMPANY' THIS DRAWING SHALL NOT BE REPRODUCED OR USED OTHER THAN FOR THE INTENDED OF THE COMPANY' THE DRAWING IS CREATED FOR THE SPECIFIC TIM ANY WAY WITHOUT THE EXPRESS CONSENT OF THE COMPANY THE DRAWING IS CREATED FOR THE SPECIFIC TIM ANY ON COMPLET NAME ON THE DRAWING AND MUST BE RETURNED TO THE COMPANY ON COMPLETION OF THE PROJECT UNLESS WRITTEN PERMISSION IS OBTAINED NW Access LLC.	Customer Name: Manufacture Date: Instellation Date: Modular Ramp Details
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