GOODWILL INDUSTRIES OF NORTHWEST TEXAS

NEW RETAIL & CAREER RESOURCE CENTER

Goodwill
Industries of Northwest Texas
"the only disability is a bad attitude"

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DESIGN TEAM

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FINCHER ENGINEERING, LLC
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Engineering Company
MPE Engineers
Lubbock, Texas

jsa architects
JSA Architects, Inc.
Architect
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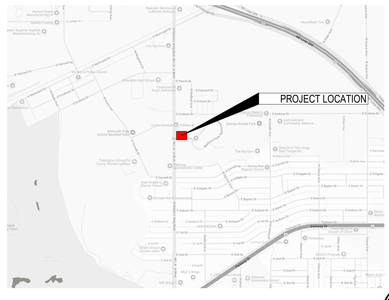
VICINITY MAP



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Midland - Odessa

GOODWILL INDUSTRIES OF NORTHWEST TEXAS
NEW RETAIL & CAREER RESOURCE CENTER
512 N MLK JR. BLVD LUBBOCK, TX 79403

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Issue / Revisions:

No.	Date	Description
0	08.08.2025	100% CONSTRUCTION DOCUMENTS
1		
2		
3		
4		
5		
6		
7		
8		
9		

REGISTERED ARCHITECT
MICHAEL S. ZIMMERMAN
24040
STATE OF TEXAS

08.08.2025

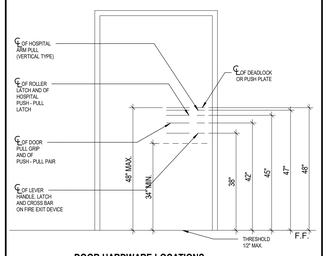
JSA No. 2025-07

COVER

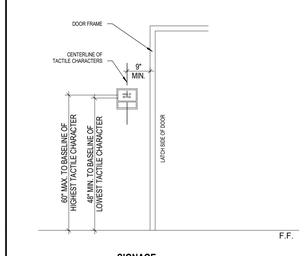
G0.0

8/11/2025 9:41:38 PM Autodesk Docs://2025-07 Goodwill - New Facility/2025-07 Goodwill - New Facility.rvt

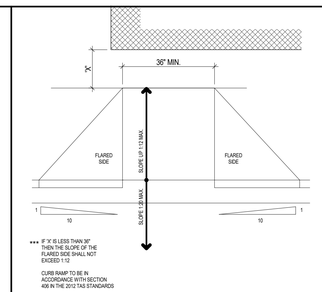
ADULTS - 2012 T.A.S. STANDARDS



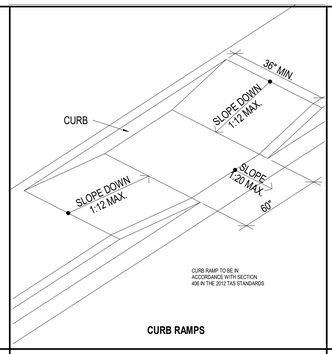
DOOR HARDWARE LOCATIONS
REFER TO SECTION 404.2.7



SIGNAGE
REFER TO SECTION 703.4



CURB RAMPS



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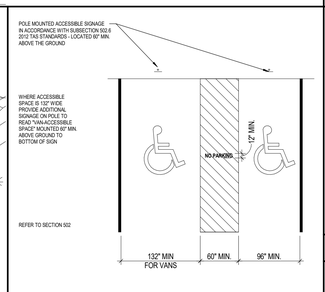
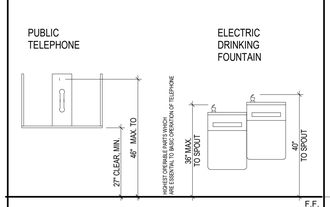
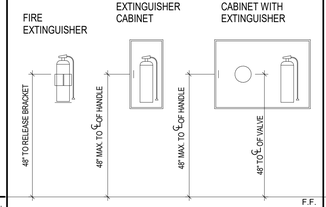


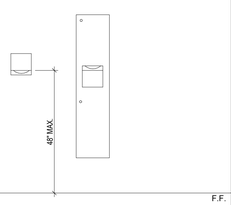
DIMENSIONS OF PARKING SPACES
REFER TO SITE PLAN FOR NUMBER AND LOCATIONS OF ACCESSIBLE AND VAN-ACCESSIBLE SPACES



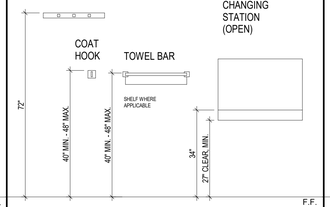
PUBLIC DEVICES
REFER TO SECTIONS 217, 308, 704 & 602



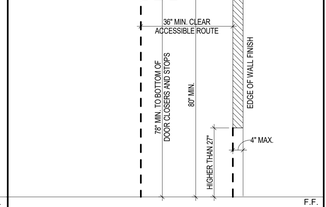
FIRE PROTECTION DEVICES
REFER TO SECTION 308 & 309



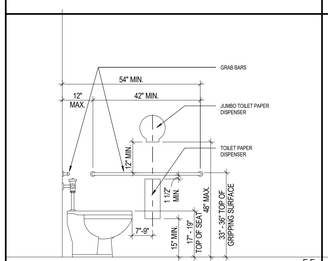
PAPER TOWEL DISPENSER
REFER TO SECTION 308 & 606.1



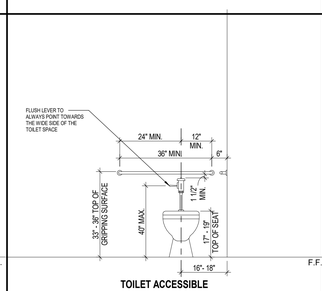
ACCESSORIES
REFER TO SECTION 603.4



PROTRUDING OBJECTS
THESE DETAILS APPLY TO ALL ITEMS PERMANENTLY MOUNTED TO A WALL ALONG THE ACCESSIBLE ROUTE - REFER TO SECTION 307 & 4.03

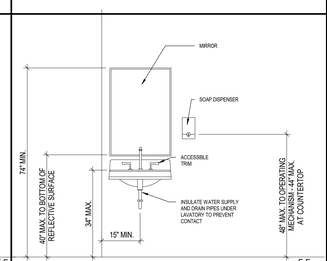


TOILET ACCESSIBLE
REFER TO SECTION 604 & 609

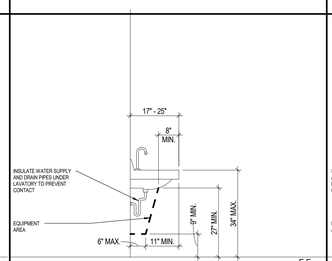


TOILET ACCESSIBLE
REFER TO SECTION 604 & 609

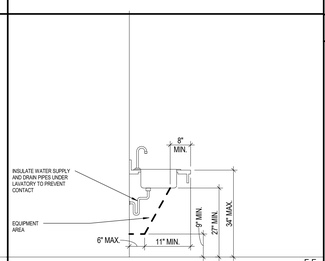
*** REFER TO SECTION 604 FOR ADDITIONAL REQUIREMENTS**



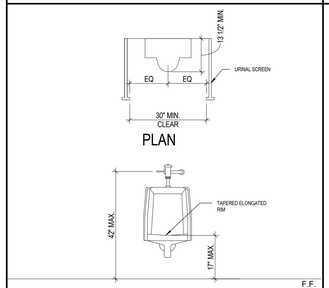
LAVATORY - ACCESSIBLE
REFER TO SECTIONS 305, 306 & 606



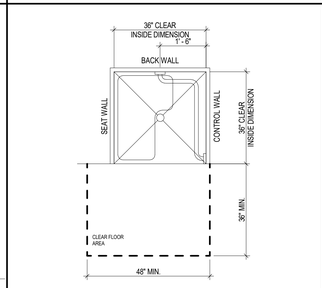
LAVATORY - ACCESSIBLE
REFER TO SECTIONS 305, 306 & 606



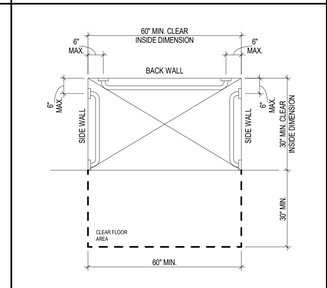
SINK - ACCESSIBLE
REFER TO SECTIONS 305, 306 & 606



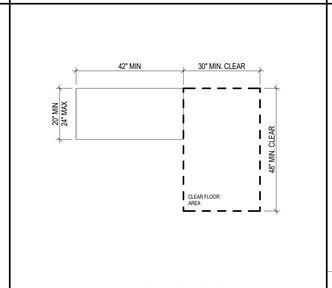
URINAL
REFER TO SECTION 605



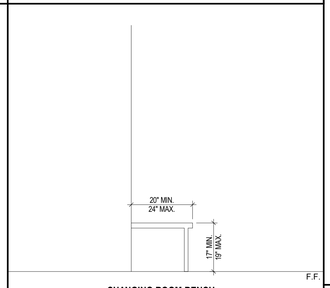
TRANSFER TYPE 36" x 36" SHOWER W/ SEAT
REFER TO SECTION 608



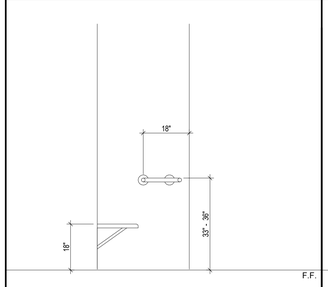
STANDARD ROLL-IN TYPE SHOWER W/O SEAT
REFER TO SECTION 608



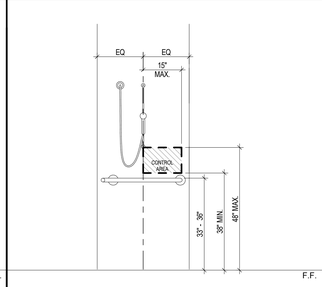
CHANGING ROOM BENCH
REFER TO SECTIONS 222, 304, 803 & 903



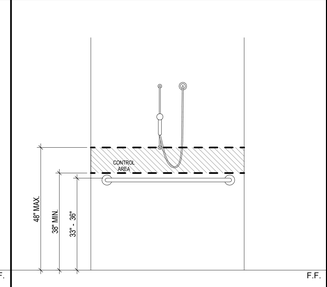
CHANGING ROOM BENCH SECTION
REFER TO SECTIONS 222, 304, 803 & 903



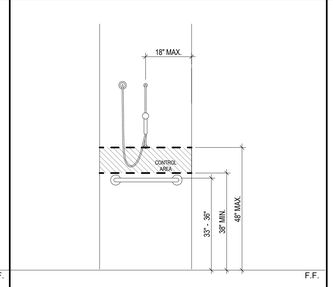
BACK WALL
TRANSFER TYPE 36" x 36" SHOWER
REFER TO SECTION 608



CONTROL WALL
TRANSFER TYPE 36" x 36" SHOWER
REFER TO SECTION 608

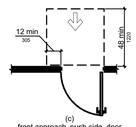


BACK WALL
STANDARD ROLL-IN TYPE SHOWER W/O SEAT
REFER TO SECTION 608



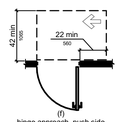
SIDE WALL
STANDARD ROLL-IN TYPE SHOWER W/O SEAT
REFER TO SECTION 608

MANEUVERING CLEARANCES AT DOORS AND GATES



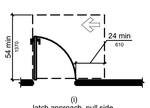
(c)
front approach, push side, door provided with both closer and latch

Figure 404.2.4.1
Maneuvering Clearance at Manual Swinging Doors and Gates



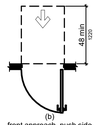
(f)
hinge approach, push side

Figure 404.2.4.1
Maneuvering Clearance at Manual Swinging Doors and Gates



(i)
latch approach, pull side, door provided with closer

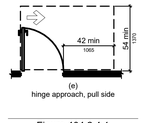
Figure 404.2.4.1
Maneuvering Clearance at Manual Swinging Doors and Gates



(b)
front approach, push side

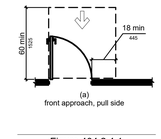
Figure 404.2.4.1
Maneuvering Clearance at Manual Swinging Doors and Gates

MANUAL SWINGING DOORS AND GATES



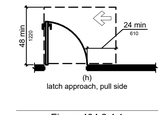
(e)
hinge approach, pull side

Figure 404.2.4.1
Maneuvering Clearance at Manual Swinging Doors and Gates



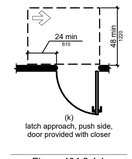
(a)
front approach, pull side

Figure 404.2.4.1
Maneuvering Clearance at Manual Swinging Doors and Gates



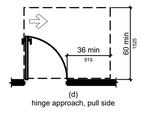
(h)
latch approach, pull side

Figure 404.2.4.1
Maneuvering Clearance at Manual Swinging Doors and Gates



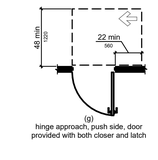
(k)
latch approach, push side, door provided with closer

Figure 404.2.4.1
Maneuvering Clearance at Manual Swinging Doors and Gates



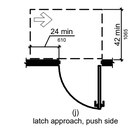
(d)
hinge approach, pull side

Figure 404.2.4.1
Maneuvering Clearance at Manual Swinging Doors and Gates



(g)
hinge approach, push side, door provided with both closer and latch

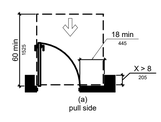
Figure 404.2.4.1
Maneuvering Clearance at Manual Swinging Doors and Gates



(j)
latch approach, push side

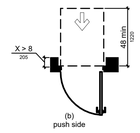
Figure 404.2.4.1
Maneuvering Clearance at Manual Swinging Doors and Gates

RECESSED DOORS AND GATES



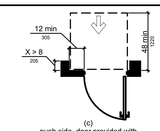
(a)
pull side

Figure 404.2.4.3
Maneuvering Clearance at Recessed Doors and Gates



(b)
push side

Figure 404.2.4.3
Maneuvering Clearance at Recessed Doors and Gates



(c)
push side, door provided with both closer and latch

Figure 404.2.4.3
Maneuvering Clearance at Recessed Doors and Gates

DOORS AND GATES IN SERIES

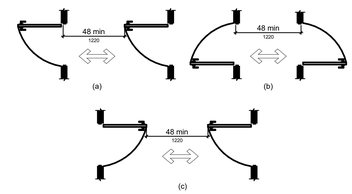
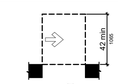


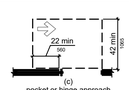
Figure 404.2.6
Doors in Series and Gates in Series

DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES AND FOLDING DOORS



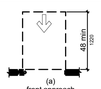
(b)
side approach

Figure 404.2.4.2
Maneuvering Clearance at Doorways Without Doors or Gates



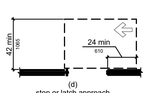
(c)
pocket or hinge approach

Figure 404.2.4.2
Maneuvering Clearance at Sliding and Folding Doors



(a)
front approach

Figure 404.2.4.2
Maneuvering Clearance at Sliding and Folding Doors



(d)
stop or latch approach

Figure 404.2.4.2
Maneuvering Clearance at Sliding and Folding Doors

ACCESSIBILITY NOTES

A. LAYOUTS / DIMENSIONS ARE BASED UPON MARCH 15, 2012 TEXAS ACCESSIBILITY STANDARDS (T.A.S.).

B. REFER TO LATEST EDITION OF TEXAS ACCESSIBILITY STANDARDS (T.A.S.) FOR ADDITIONAL INFORMATION.

C. ALL ROOMS IN THIS PROJECT ARE DESIGNATED FOR ADULTS.

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GOODWILL INDUSTRIES OF NORTHWEST TEXAS
NEW RETAIL & CAREER RESOURCE CENTER
512 N MLK JR. BLVD LUBBOCK, TX 79403

Goodwill Industries of Northwest Texas

Issue / Revisions:

No.	Date	Description
0	08.08.2025	100% CONSTRUCTION DOCUMENTS
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REGISTERED ARCHITECT — MICHAEL J. ZIMMERMAN — 24067 — STATE OF TEXAS

08.08.2025

JSA No: 2025-07

ACCESSIBILITY

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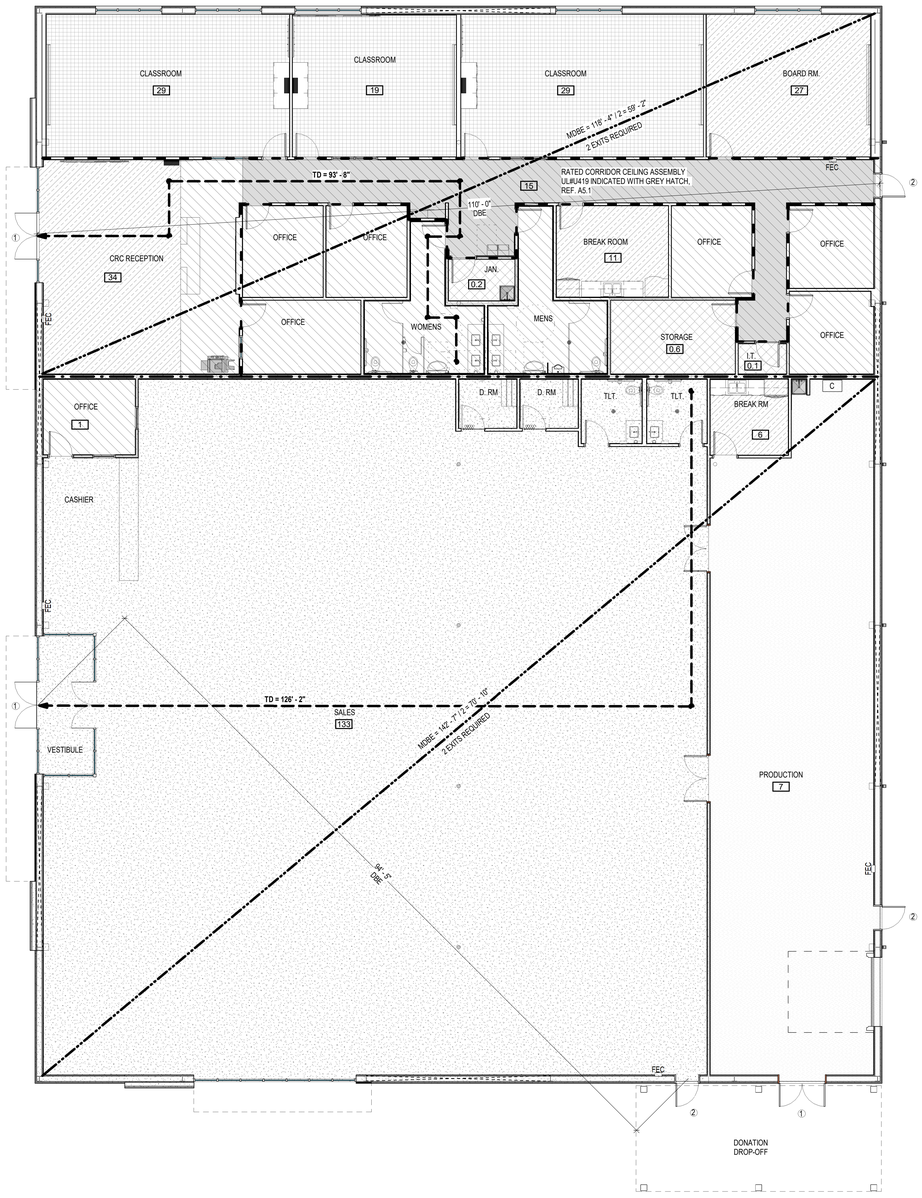

1 LIFE SAFTY PLAN

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

0 2 4 8 16

GENERAL NOTES:

1. FIRE RATING OF ANY "EXTERIOR" LOAD BEARING WALLS SHALL CONTINUE FOR A MIN OF 30" ABOVE ROOF LINES AT STEPPED BUILDING LOCATIONS, SUCH SAME WALL BELOW SUCH POINTS IS AN "INTERIOR" LOAD BEARING WALL AND FIRE RATED ACCORDING TO "INTERIOR" LOAD BEARING WALLS.

2. MARKING OF FIRE RATED & SMOKE STOP PARTITIONS; PERMANENTLY MARK ALL SMOKE BARRIERS, FIRE PARTITIONS, SHAFT ENCLOSURES AND FIRE BARRIERS ABOVE CEILINGS AS FOLLOWS: "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS". LETTERS SHALL BE MINIMUM OF 2" IN HEIGHT AND PAINTED RED. PROVIDE EVERY 10 FEET.

3. PROTECT JOINTS AT TOP OF RATED WALLS AND WHERE RATED WALLS INTERSECT WITH OTHER CONSTRUCTION WITH FIRE SAFING INSULATION AND FIRE STOP SEALANT - REFER TO SPECIFICATION SECTION 078400.

4. PROTECT ALL CONDUIT, PIPES, DUCTS, AND MISC PENETRATIONS THROUGH RATED WALLS, FLOOR OR ROOF WITH FIRE SAFING INSULATION AND FIRE STOP SEALANT. REFER TO SPECIFICATION SECTION 078400.

5. PROVIDE DAMPERS AND LIGHT FIXTURE PROTECTION AS REQUIRED BY UL ASSEMBLIES.

6. UL ASSEMBLIES INDICATED ESTABLISH A BASIS PERFORMANCE. OTHER ASSEMBLIES MAY BE CONSIDERED AT THE DISCRETION OF THE ARCHITECT IF EQUIVALENT PERFORMANCE IS PROVIDED. SUBSTITUTION PROPOSALS SHALL INCLUDE CHANGES REQUIRED TO ALL COMPONENTS OF THE ASSEMBLY.

7. FIRE EXTINGUISHERS, MAXIMUM FLOOR AREA FOR UNIT - 11,250 SF; MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER - 75 FT. (IFC SECTION 906 & NFPA 10, CHAPTER 6 & TABLE 6.2.1.1, CLASS A - LIGHT HAZARD OCCUPANCY)

FUNCTION OF SPACE LEGEND:

- ACCESSORY STORAGE AREA, MECHANICAL EQUIPMENT ROOMS
- ASSEMBLY WITHOUT FIXED SEATS
- BUSINESS AREA
- CLASSROOM AREA
- MERCANTILE
- MERCANTILE STORAGE, STOCK, & SHIPPING AREAS

LIFE SAFTY LEGEND:

- (1) PAIR OF 3'-0" DOORS (66-3/4" CLR) AT .2"/OCCUPANT = 333 OCCUPANTS
- (2) SINGLE 3'-0" DOOR (33-1/4" CLR) AT .2"/OCCUPANT = 166 OCCUPANTS
- TD = XX'-X" — EGRESS PATH (250' MAX.)
- XX — SPACE OCCUPANT LOAD
- FE — WALL MOUNTED FIRE EXTINGUISHER
- FEC — FIRE EXTINGUISHER CABINET
- 1-HR FIRE PARTITION (CORRIDOR) - UL U419
- 2-HR FIRE BARRIER - UL U419

PLUMBING FIXTURE COUNT

OCCUPANCY:	USE GROUP	OCC LOAD	WATER CLOSET M	WATER CLOSET F	URINALS	LAVS M	LAVS F	DRINKING FOUNTAIN	SERVICE SINK
ASSEMBLY	A-3	77	0.3	0.6	-	0.2	0.2	0.2	
BUSINESS	B	16	0.3	0.3	-	0.2	0.2	0.2	
EDUCATION	E	77	0.8	0.8	-	0.8	0.8	0.8	1
MERCANTILE	M	140	0.1	0.1	-	0.1	0.1	0.1	
STORAGE	S-2	2	0.0	0.0	-	0.0	0.0	0.0	
TOTAL REQUIRED			2	2	-	2	2	2	1
TOTAL PROVIDED			2	3	1	3	3	2	2

FIXTURE COUNT NOTES:

1. 1 SERVICE SINK IS REQUIRED.
2. VALUES WITH DECIMAL POINTS ARE ROUNDED TO THE NEAREST TENTH FOR SIMPLICITY. FURTHER CALCULATIONS DO NOT USE THE ROUNDED VALUE.
3. VALUES WITHOUT DECIMAL POINTS ARE ROUNDED UP TO THE NEAREST WHOLE NUMBER AT THE END OF THE CALCULATION.
4. IN EACH RESTROOM, HALF OF THE MALE WATER CLOSETS WILL BE SUBSTITUTED FOR URINALS. IF AN ODD NUMBER OF URINALS AND WATER CLOSETS ARE PROVIDED, THERE WILL BE ONE MORE WATER CLOSET THAN URINALS.

PROJECT GENERAL INFORMATION:

PROJECT	GOODWILL - NEW FACILITY
LOCATION	512 N MLK JR. BLVD LUBBOCK, TX 79403
BUILDING CODE	2021 INTERNATIONAL BUILDING CODE
BUILDING USE	RETAIL & BUSINESS
OCCUPANCY GROUP	BUSINESS - GROUP "B"; MERCANTILE - GROUP "M"
BUILDING TYPE	TYPE II-B
SPRINKLERED	NO
NUMBER OF STORIES	ONE
BUILDING HEIGHT	29'-0"
GROSS FLOOR AREA	15,587 SF. (PRIMARY BUILDING)
GROSS FLOOR AREA	394 SF. (GARAGE)
TOTAL OCCUPANCY LOAD	312 OCCUPANTS (PRIMARY BUILDING)
TOTAL OCCUPANCY LOAD	1 OCCUPANT (GARAGE)
PARKING	
TOTAL	57
ACCESSIBLE	3

CODE REVIEW: IBC

BUILDING AREA AND HEIGHT LIMITATION (REF. IBC) FOR GROUP B OCCUPANCY	23,000 AREA / 55 FT HGT / 3 STORY HEIGHT
MAXIMUM ALLOWABLE AREA INCREASES	N/A SEC, REF. IBC

TOTAL MAXIMUM ALLOWABLE AREA EQUATION (REF. IBC):

Aa=At +(NS x IF)	N/A SEC, REF. IBC
TOTAL MAXIMUM ALLOWABLE AREA:	N/A

FIRE-RESISTANCE REQUIREMENTS: IBC

FOR GENERAL BUILDING ELEMENTS:	(REF. IBC)	DOOR RATING (REF. IBC)
STRUCTURAL FRAME	0 HR	
BEARING WALLS		
EXTERIOR	0 HR	0 MIN
INTERIOR	0 HR	0 MIN
NONBEARING WALLS:		
EXTERIOR LESS THAN 5'	1 HR	45 MIN
5' OR LESS THAN 10'	1 HR	45 MIN
10' OR LESS THAN 30'	0 HR	0 MIN
GREATER THAN 30'	0 HR	0 MIN
FLOOR CONSTRUCTION (INCL. SUPPORT BEAM/JOISTS)	0 HR	
ROOF CONSTRUCTION (INCL. SUPPORT BEAM/JOISTS)	0 HR	

FOR SPECIFIC BUILDING ELEMENTS:	
SHAFT ENCLOSURES (REF. IBC)	1 HR (NOT APPICABLE)
VERTICAL EXIT ENCLOSURES (REF. IBC)	0 HR (NOT APPICABLE)
FIRE WALLS (REF. IBC)	2 HR (W/ OUT SPRINKLER SYSTEM)
FIRE BARRIERS (REF. IBC)	2 HR (W/ OUT SPRINKLER SYSTEM)
FIRE PARTITIONS (REF. IBC)	0 HR (W/ OUT SPRINKLER SYSTEM)
CORRIDORS (REF. IBC)	1 HR (W/ OUT SPRINKLER SYSTEM)

REQUIRED EGRESS WIDTH: IBC

MINIMUM CORRIDOR WIDTH (REF. IBC)	44" MIN OR .2" PER OCCUPANT WHICHEVER IS GREATER
MINIMUM STAIR WIDTH (REF. IBC)	44" MIN OR .3" PER OCCUPANT WHICHEVER IS GREATER
NUMBER OF EXITS REQUIRED PER STORY (REF. IBC)	
1-500 OCCUPANTS	2
501-1000 OCCUPANTS	3
1001 OR MORE OCCUPANTS	4
MAXIMUM EXIT ACCESS TRAVEL DISTANCE (REF. IBC)	200' W/ OUT SPRINKLER SYSTEM
MAXIMUM LENGTH OF DEAD END CORRIDORS (REF. IBC)	20' AND UNLIMITED LENGTH WHEN LENGTH IS 2.5 TIMES LESS THAN LEAST WIDTH OF DEAD END CORRIDOR
EXITS THROUGH ADJOINING ROOMS (REF. IBC)	PERMITTED AT ACCESSORY, NON-HAZARD ROOMS W/ A DECERNABLE PATH OF TRAVEL PROVIDED; NOT PERMITED THROUGH KITCHENS, STORAGE, OR SIMILAR
COMMON PATH OF TRAVEL (REF. IBC)	75' W/ OUT SPRINKLER SYSTEM
EGRESS WIDTH REQUIRED	312 OCCUPANTS x 0.2" = 62.4" (MIN. 44")
EGRESS WIDTH PROVIDED AT DOORS	32" *
FIRST FLOOR TOTAL OF EXITS	2 TOTAL EXITS

FIRST FLOOR OCCUPANT LOAD

FUNCTION OF SPACE:		SQ. FT. PER OCCUPANT:
ACCESSORY STORAGE AREAS, MECHNICAL EQUIPMENT ROOMS		300 GROSS
ASSEMBLY (UNCONCENTRATED)		15 NET
BUSINESS AREAS		150 GROSS
CLASSROOM		20 NET
MERCANTILE		60 GROSS
MERCANTILE (STORAGE, STOCK, SHIPPING AREAS)		300 GROSS
OCCUPANT LOAD - RETAIL STORE:		
ASSEMBLY (UNCONCENTRATED)	87 SF @ 15 N	6 OCCUPANTS
BUSINESS AREAS	142 SF @ 150 G	1 OCCUPANT
MERCANTILE	7962 SF @ 60 G	133 OCCUPANTS
MERCANTILE (STORAGE, STOCK, SHIPPING AREAS)	1967 SF @ 300 G	7 OCCUPANTS
RETAIL STORE TOTAL OCCUPANTS:		147 OCCUPANTS
OCCUPANT LOAD - CAREER CENTER:		
ACCESSORY STORAGE/MECH	257 SF @ 300 G	1 OCCUPANT
ASSEMBLY (UNCONCENTRATED)	1069 SF @ 15 N	72 OCCUPANTS
BUSINESS AREAS	2192 SF @ 150 G	15 OCCUPANTS
CLASSROOM	1546 SF @ 20 N	77 OCCUPANTS
CAREER CENTER TOTAL OCCUPANTS:		164 OCCUPANTS
OCCUPANT LOAD - GARAGE:		
ACCESSORY STORAGE/MECH	387 SF @ 300 G	1 OCCUPANT
GARAGE TOTAL OCCUPANTS:		1 OCCUPANT
PROJECT TOTAL OCCUPANTS:		312 OCCUPANTS

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GOODWILL INDUSTRIES OF NORTHWEST TEXAS

NEW RETAIL & CAREER RESOURCE CENTER

512 N MLK JR. BLVD LUBBOCK, TX 79403

Goodwill Industries of Northwest Texas

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REGISTERED ARCHITECT — MICHAEL S. ZIMMERMAN — STATE OF TEXAS

08.08.2025

JSA No: 2025-07

LIFE SAFETY PLAN

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GENERAL NOTES:

1. CONTRACTOR IS HEREBY NOTIFIED THAT SUBSURFACE UTILITIES EXISTS WITHIN THE CONSTRUCTION SITE. CONTRACTOR SHALL EXERCISE CARE WHEN DISTURBING ANY AREAS, AND SHALL BE RESPONSIBLE FOR REPAIR OF DAMAGE TO UTILITIES CAUSED BY CONTRACTOR'S ACTIVITIES.
2. THE GENERAL CONTRACTOR SHALL COORDINATE & SCHEDULE ALL WORK WITH OWNER.
3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL & STATE BUILDING CODES AND REGULATIONS.
4. DIMENSIONS SHOWN ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL PROVIDE CONSTRUCTION FENCE AS REQUIRED TO ENCLOSE CONSTRUCTION AREA AND STACK LOT; COORDINATE LOCATION WITH OWNER.
6. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF EXISTING UTILITIES. UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
7. REFER THE ARCHITECTURAL DRAWINGS FOR EXACT SITE DEMOLITION LIMITS.
8. ANY RELOCATION OF EXISTING UTILITIES REQUIRED AS A RESULT OF THE WORK INVOLVED SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS ITEMS OF CONSTRUCTION.
9. PATCH AND REPAIR TO MATCH EXISTING AT ALL AREAS DISTURBED BY CONTRACTOR'S ACTIVITIES.
10. ALL WATER UTILITIES SHALL CONFORM TO THE LATEST TCEQ 30 TAC CHAPTER 290 RULES AND REGULATIONS.
11. ALL WASTEWATER FACILITIES SHALL CONFORM TO THE LATEST TCEQ 30 TAC CHAPTER 217 RULES AND REGULATIONS.
12. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE PLANS, DETAILS AND SPECIFICATIONS, THE GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA. IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION AND DETAIL SHALL BE FOLLOWED.
13. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.
14. EXISTING CONDITIONS SHOWN ON THESE PLANS WERE PROVIDED BY THE TOPOGRAPHIC SURVEY PREPARED BY OJD ENGINEERING, LLC AND ARE BASED ON THE BENCHMARKS SHOWN. THE CONTRACTOR SHALL REFERENCE THE SAME BENCHMARKS.
15. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING TOPOGRAPHIC SURVEY SHOWN ON THE PLANS REPRESENTS EXISTING FIELD CONDITIONS PRIOR TO THE CONSTRUCTION, AND SHALL REPORT ANY DISCREPANCIES TO THE OWNER AND ENGINEER IMMEDIATELY.
16. CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING AND STAKING.
17. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL, INCLUDING BENCHMARKS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS. PROPERTY LINES AND CORNERS SHALL BE HELD AS THE HORIZONTAL CONTROL.
18. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ARCHITECT, ENGINEER, AND IF APPLICABLE THE CITY AND OWNER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE CITY, ENGINEER, AND OWNER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
19. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
20. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL TEXAS 811 AND CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK TO HAVE THEM LOCATE THEIR EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
21. THE LOCATION, ELEVATIONS, DEPTH, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ARE CONSIDERED APPROXIMATE AND INCOMPLETE. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THE PRESENCE, LOCATION, ELEVATION, DEPTH, AND DIMENSION OF EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION SO THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES.
22. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY ADJUSTMENTS AND RELOCATION OF EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS. THIS INCLUDES ADJUSTING EXISTING MANHOLES TO PROPOSED GRADE, RELOCATING EXISTING POLES AND GUY WIRES THAT ARE LOCATED IN PROPOSED DRIVEWAYS, ADJUSTING THE HORIZONTAL OR VERTICAL ALIGNMENT OF EXISTING UNDERGROUND UTILITIES TO ACCOMMODATE PROPOSED GRADE OR CROSSING WITH A PROPOSED UTILITY, AND ANY OTHERS THAT MAY BE ENCOUNTERED THAT ARE UNKNOWN AND NOT SHOWN ON THESE PLANS.
23. CONTRACTOR SHALL ARRANGE FOR OR PROVIDE, AT ITS EXPENSE, ALL GAS, TELECOMMUNICATIONS, CABLE, OVERHEAD AND UNDERGROUND POWER LINE, AND UTILITY POLE ADJUSTMENTS NEEDED.
24. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF FRANCHISE UTILITIES THAT ARE NECESSARY FOR ON-SITE AND OFF-SITE CONSTRUCTION, AND SERVICE TO THE PROPOSED DEVELOPMENT.
25. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DRY UTILITIES TO THE DEVELOPMENT/SITE. CONTRACTOR SHALL VERIFY AVAILABILITY, ROUTING, CONDITION, SIZE, LOCATION, DEPTH, MATERIAL, PRESSURE, ETC. OF EXISTING DRY UTILITIES AND CONFIRM COMPLIANCE WITH PLANS WITH THE ARCHITECT (IF APPLICABLE) AND ALL ENGINEERING DISCIPLINES.
26. DRY UTILITIES SHOWN ON THIS PLAN ARE SCHEMATIC ONLY AND DO NOT REPRESENT ACTUAL ROUTING, CONDITION, SIZE, LOCATION, DEPTH, MATERIAL, PRESSURE, ETC. AND SHALL FIELD VERIFIED AND COORDINATED WITH THE APPROPRIATE UTILITY PROVIDER.
27. CONTRACTOR SHALL COORDINATE DIRECTLY WITH LOCAL ELECTRIC PROVIDER FOR ELECTRIC DISTRIBUTION SYSTEM AND SERVICES. REFER TO THE PLAN PROVIDED BY THE ARCHITECT, MEP ENGINEER OR THE ELECTRIC PROVIDER FOR ELECTRIC DISTRIBUTION PLAN.
28. CONTRACTOR SHALL COORDINATE DIRECTLY WITH LOCAL TELECOMMUNICATION PROVIDER FOR TELECOMMUNICATION SYSTEM AND SERVICES. REFER TO THE PLAN PROVIDED BY THE ARCHITECT, MEP ENGINEER OR THE TELECOMMUNICATION PROVIDER FOR TELECOMMUNICATION PLAN.
29. CONTRACTOR SHALL COORDINATE WITH THE LOCAL GAS COMPANY FOR THE GAS COMPANY TO EXTEND LINES AND SET METERS AS REQUIRED FOR SERVICE. THE CONTRACTOR IS RESPONSIBLE FOR SERVICE FROM THE METER TO THE BUILDING.
30. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES DUE TO THE CONTRACTORS' FAILURE TO LOCATE AND PRESERVE ALL UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES.
31. CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, FEDERAL AND UTILITY OWNER REGULATIONS PERTAINING TO WORK SETBACKS FROM POWER LINES.
32. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS, APPROVALS, AND BONDS PRIOR TO CONSTRUCTION.
33. ALL SHOP DRAWINGS, SUBMITTALS OR OTHER DOCUMENTS THAT REQUIRE ENGINEER REVIEW SHALL BE SUBMITTED BY THE CONTRACTOR NO LESS THAN 10 BUSINESS DAYS FOR REVIEW AND RESPONSE IS AVAILABLE.
34. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS, JURISDICTIONAL AGENCIES, AND UTILITY SERVICE COMPANIES.
35. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ALL FINAL BUILDING DIMENSIONS. THE ACTUAL BUILDING FOOTPRINT MAY VARY, COORDINATE FINAL BUILDING FOOTPRINT WITH ARCHITECTURAL AND STRUCTURAL PLANS.
36. ALL CONSTRUCTION SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT, INCLUDING ADDENDA.
37. ALL COPIES OF MATERIALS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY.
38. ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. ANY DAMAGE RESULTING THERE FROM SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR.
39. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/PEDESTALS, AND OTHER FACILITIES AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
40. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY OR PUBLIC IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO: FENCES, WALLS, SIGNS, PAVEMENT, CURBS, UTILITIES, SIDEWALKS, GRASS, TREES, LANDSCAPING, AND IRRIGATION SYSTEMS, ETC. TO ORIGINAL CONDITION OR BETTER AT NO COST TO THE OWNER.
41. ALL AREAS DISTURBED BY SITE CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, INCLUDING AS NECESSARY GRADING, LANDSCAPING, CULVERTS, AND PAVEMENT.
42. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES.
43. LIGHT POLES, SIGNS AND OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN ACCESSIBLE ROUTES.
44. THE CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED VALVES, FIRE HYDRANTS, AND OTHER UTILITY APPURTENANCES TO MATCH ACTUAL FINISHED GRADES AT THE TIME OF PAVING.
45. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS TO THE ENGINEER AND ARCHITECT IDENTIFYING ALL DEVIATIONS AND VARIATIONS FROM THESE PLANS MADE DURING CONSTRUCTION.
46. CONTRACTOR SHALL COORDINATE SCHEDULING WITH THE APPROPRIATE GOVERNMENTAL AGENCY FOR TRAFFIC CONTROL.

DEMOLITION NOTES:

1. ALL DEMO TO BE DONE BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR TO REPAIR OR REPLACE IN KIND, AT THE CONTRACTOR'S EXPENSE, ANY MATERIALS DAMAGED IN THE COURSE OF THE REMOVAL PROCESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING REPLACEMENT SOURCE FOR HISTORIC MATERIALS DAMAGED IN THE COURSE OF THE REMOVAL PROCESS.
4. ANY LANDSCAPING DISTURBED DURING CONSTRUCTION SHALL BE REPLACE TO ITS ORIGINAL PRE CONSTRUCTION CONDITION BY THE CONTRACTOR.

EARTHWORK NOTES

1. REFER TO SOIL INVESTIGATION PROJECT AR255064 PREPARED BY TERRACON DATED MARCH 21, 2025 FOR FURTHER SUBSURFACE AND SITE PREPARATION INFORMATION.
2. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.
3. NO REPRESENTATION OF EARTHWORK QUANTITIES OR SITE BALANCE ARE MADE BY THESE PLANS. THE CONTRACTOR SHALL PROVIDE THEIR OWN EARTHWORK CALCULATIONS TO DETERMINE THEIR CONTRACT QUANTITIES AND COST.
4. MATERIALS TESTING SHALL BE PREFORMED BY AN INDEPENDENT TESTING LABORATORY CONTRACTED BY THE OWNER; TESTING SHALL BE PREFORMED AS SET FORTH IN THE SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL SCHEDULING OF MATERIALS TESTING. THE OWNER SHALL BE RESPONSIBLE FOR PAYMENT EXCEPT IN CASES OF FAILURE OF MATERIAL OR WORKMANSHIP. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ALL SUBSEQUENT TESTING OF THE FAILED ELEMENT.
5. ALL SAMPLING AND TRANSPORTATION FOR MATERIAL TESTING SHALL BE PERFORMED BY THE TESTING LABORATORY ONLY. THE GENERAL CONTRACTOR OR SUBCONTRACTORS SHALL NOT SAMPLE, PROVIDE OR TRANSPORT ANY MATERIAL TO BE TESTED BY THE TESTING LABORATORY.
6. UNDER NO CIRCUMSTANCES, UNLESS APPROVED BY THE ENGINEER AND ARCHITECT IN WRITING, SHALL THE INDEPENDENT TESTING LABORATORY BE CHANGED DURING THE PROJECT.
7. SITE SHOULD BE PREPARED BY REMOVING AND CLEARING ANY GRASSES, WEEDS, LOOSE SOILS AND ORGANIC TOPSOILS.
8. ANY SOFT OR SPONGY AREAS OR ANY AREAS OF SUSPECTED EXISTING FILL WHICH WILL SUPPORT PROPOSED FILL MATERIAL, FUTURE STRUCTURES, OR PAVEMENT SHALL BE COMPACTED. UNSTABLE AREAS IDENTIFIED BY COMPACTION SHALL BE UNDERCUT TO A FIRM SUBGRADE. THE RESULTING VOID SHALL BE BACKFILLED WITH PROPERLY COMPACTED NATIVE OR SELECT FILL MATERIAL.
9. BOTH THE AREAS TO RECEIVE FILL AND FILL MATERIALS SHALL BE FREE OF ANY VEGETATION OR DEBRIS. PRIOR TO PLACING THE FILL, THE EXPOSED SUBGRADE IN AREAS TO RECEIVE FILL SHALL BE SCARIFIED TO A DEPTH OF 6 INCHES AND RECOMPACTED TO A MINIMUM OF 95 PERCENT STD PROCTOR DENSITY AT (-2 TO +2 PERCENT) OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 698. SUBGRADE IN-PLACE DENSITY FREQUENCY SHALL BE EVERY 700SY.
10. IT IS RECOMMENDED THE STABILIZATION PROCEDURES EXTEND AT LEAST 1 FOOT BEYOND THE EDGE OF THE PAVEMENT TO REDUCE THE EFFECTS OF SEASONAL SHRINKAGE AND SWELLING UPON THE EXTREME EDGES OF THE PAVEMENT.
11. LOCATE ALL UTILITIES AND UNDERGROUND SERVICES PRIOR TO PERFORMING EXCAVATION OF ANY KIND.
12. ANY AREA DISTURBED BY CONSTRUCTION SHALL BE RETURNED TO ORIGINAL OR BETTER BY THE CONTRACTOR.
13. 6" TOPSOIL TO BE PLACED ON AREAS DISTURBED BY CONSTRUCTION, HYDROMULCH AS DIRECTED BY THE OWNER.
14. UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREA REFLECT TOP OF PAVEMENT SURFACE. IN LOCATIONS ALONG A CURB LINE, ADD 6- INCHES (OR THE HEIGHT OF THE CURB) TO THE PAVING GRADE FOR TOP OF CURB ELEVATION.
15. PROPOSED SPOT ELEVATIONS AND CONTOURS OUTSIDE THE PAVEMENT ARE TO TOP OF FINISHED GRADE.
16. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED BY THE CONTRACTOR AT THE OWNER'S DIRECTION AT NO ADDITIONAL EXPENSE.
17. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST, CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER AT NO ADDITIONAL COST TO THE OWNER.
18. AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING AND INADEQUATE SLOPE FOR DRAINAGE. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORMWATER RUNOFF. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY AREAS OF POOR DRAINAGE ARE DISCOVERED.
19. CONTRACTOR FIELD ADJUSTMENT OF PROPOSED SPOT GRADES IS ALLOWED, IF THE APPROVAL OF THE CIVIL ENGINEER IS OBTAINED.

PAVING & CONCRETE NOTES:

1. EARTHWORK, PAVEMENT & CONCRETE MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE SPECIFICATIONS PROVIDED.
2. WATER FOR CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER AS REQUIRED.
3. CALICHE BASE COURSE MATERIAL SHALL BE TYPE A,B OR D, GRADE 1 - 2. CALICHE BASE COURSE IN-PLACE DENSITY FREQUENCY SHALL BE EVERY 700SY.
4. HOT MIX ASPHALT CONCRETE SHALL BE TYPE D PG 64 28 UNLESS OTHERWISE NOTED. HOT MIX ASPHALT CONCRETE IN-PLACE DENSITY FREQUENCY SHALL BE EVERY 700SY. ASPHALT CORES SHALL BE PERFORMED TO DETERMINE IN-PLACE THICKNESS EVERY 1400SY.
5. CONCRETE PAVEMENT SHALL HAVE A f'c = 4000 P.S.I. AT 28 DAYS. CONCRETE SHALL HAVE TOTAL AIR CONTENT OF 5 ± 1%. CONCRETE FOR SIDEWALKS, CURB & GUTTER AND DRAINAGE FACILITIES SHALL HAVE f'c = 3000 P.S.I. AT 28 DAYS AND SHALL HAVE A TOTAL AIR CONTENT OF 5 ± 1%.
6. CONCRETE SHALL CONFORM TO THE FOLLOW SPECIFICATION:

Class	Min. Sacks Cement per cubic yard	Water/ Cement Ratio	Max. Slump (inches)
A	5.0	0.40 – 0.60	5
B	5.5	0.40 – 0.60	5
C	6.0	0.35 – 0.45	3
D	4.5	0.40 – 0.60	5
E	As Required for specific cure time and strength.		

Class	Min. Compressive Strength			Min. Flexural Strength
	3 Day	7 Day	28 Day	28 Day
A	-	2100	3000	-
B	2500	3000	-	-
C	-	2500	4000	600
D	-	-	2500	-
E	3000 psi at 24 hours			

Fine Aggregate	Cumulative Percent Retained (by weight)
Retained on 3/8" Sieve	0
Retained on No. 4 Sieve	0-5
Retained on No. 8 Sieve	0-20
Retained on No. 16 Sieve	15-50
Retained on No. 30 Sieve	35-75
Retained on No. 50 Sieve	65-90
Retained on No. 100 Sieve	90-100
Retained on No. 200 Sieve	97-100

Coarse Aggregate	Cumulative Percent Retained (by weight)
Retained on 1-3/4" Sieve	0
Retained on 1-1/2" Sieve	0-5
Retained on 3/4" Sieve	10-40
Retained on 1/2" Sieve	40-75
Retained on No. 4 Sieve	95-100

7. SAW CUT CONTROL JOINTS SHOULD BE CUT WITHIN 6 TO 12 HOURS OF CONCRETE PLACEMENT.
8. ALL REINFORCING STEEL SHALL CONFORM TO THE GEOTECHNICAL REPORT AND ASTM A-615 GRADE 60, AND SHALL BE SUPPORTED BY BAR CHAIRS.
9. FULL DEPTH SAWCUT ALL EXISTING PAVEMENT WHERE PROPOSED PAVEMENT IS TO TIE INTO EXISTING PAVEMENT. SIDEWALKS AND CONCRETE SLABS SHALL BE 4" THICK CONCRETE, UNLESS NOTED OTHERWISE. FIBROUS REINFORCING WILL NOT BE ALLOWED. PROVIDE 3/4" EXPANSION JOINTS WITH ASPHALT IMPREGNATED FIBROUS FILLER AT 45'-0" O.C. MAXIMUM, AT CHANGES IN DIRECTION AND AT INTERSECTIONS WITH WALKS/SLABS, BUILDINGS, AND CURBS, UNLESS NOTED OTHERWISE.
10. CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A SMOOTH, FLUSH, CONNECTION.
11. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS.
12. PROVIDE 1/2" DEEP TOOLED CONTROL JOINTS IN CONCRETE WALKS AND SLABS AT MAXIMUM 5'-0" O.C., UNLESS NOTED OTHERWISE.
13. JOINTS IN CONCRETE PAVEMENT SHOULD NOT EXCEED 12.5'.
14. ALL JOINTS SHALL EXTEND THROUGH THE CURB.
15. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.
16. PARKING LOT STRIPING SHALL BE 4" WIDE WITH SPACING SHOWN ON PLAN. DIAGONAL STRIPES SHALL BE 4" WIDE AT 24" O.C.
17. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PAINTED LINES, DIRECTIONAL ARROWS, HANDICAPPED SYMBOLS, OR SIMILAR MARKINGS ON PAVED SURFACES, AS SHOWN ON THE DRAWINGS WITH ACRYLIC WATERBORNE PAINT OR LOW VOLATILE ORGANIC COMPOUND (VOC) SOLVENT BASE PAINT, LEAD AND CHROMATE FREE, READY-MIXED, COLD APPLIED TRAFFIC MARKING PAINT, WHITE OR YELLOW COLOR AS DESIGNATED ON THE PLANS FOR STRIPING AND LANE MARKINGS, WHITE AND BLUE AS INTERNATIONAL HANDICAPPED PARKING SYMBOLS. ACCEPTABLE PRODUCTS INCLUDE DEVOE EXTERIOR "SAFETY LINE" OR APPROVED EQUAL.
18. TRAFFIC MARKING PAINT SHALL BE UNLESS OTHERWISE INDICATED, APPLY TRAFFIC MARKING PAINT IN NOMINAL 4" WIDE STRIPES AT THE RATE OF 100 TO 110 SF/GAL AND COMPLY WITH ANSI 117.1 AND ADA REQUIREMENTS FOR GRAPHIC SYMBOLS, STALL WIDTHS, AND ACCESS AISLES AT HANDICAPPED PARKING SPACES.
19. CONTRACTOR IS RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING, IRRIGATION, ETC. PRIOR TO PLACEMENT OF PAVEMENT. ALL CONSTRUCTION DOCUMENTS (CIVIL, MEP, LANDSCAPE, IRRIGATION, AND ARCHITECT) SHALL BE CONSULTED.
20. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA & TAS) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. TRANSVERSE SLOPE ON ACCESSIBLE ROUTES SHALL NOT EXCEED 2% AND LONGITUDINAL SLOPE ON ACCESSIBLE ROUTES SHALL NOT EXCEED 5%.
21. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA/TAS SLOPE REQUIREMENTS ARE PROVIDED.
22. ALL ACCESSIBLE RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA AND TAS STANDARDS, LATEST EDITION.
23. CONSTRUCTION OF THE PROJECT SHALL NOT BE STARTED UNTIL ALL SUBMITTALS ARE APPROVED BY THE ENGINEER.

UTILITY GENERAL NOTES:

1. PRIOR TO ANY CONSTRUCTION DIFFERENT FROM THE UTILITY PLAN, CALL THE CITY OF LUBBOCK, CALL DEVELOPMENT ENGINEERING SERVICES @ 775-2347.
2. CONSTRUCTION TAPE SHALL BE INSTALLED 2' ABOVE WATER/SEWER PIPES.
3. MANDATORY: CONTRACTOR SHALL CONTACT DIG-TESS (1-800-DIG-TESS) FOR UTILITY LOCATES NO LATER THE TWO FULL WORKING DAYS PRIOR TO COMMENCING GRADING/PAVING/CONSTRUCTION.
4. FOLLOW BEST MANAGEMENT PRACTICES TO COMPLY WITH EPA'S STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS.
5. CONTRACTOR IS THE RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND DEPTHS OF TIE-INS AND LINE LOCATIONS PRIOR TO BEGINNING CONSTRUCTION. THE CITY, THE OWNER, ENGINEER OR ARCHITECT WILL NOT BE HELD RESPONSIBLE FOR ANY MINOR CHANGES NEEDED TO ADJUST THE PROPOSED LINES.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL STORM SEWER INLETS, MANHOLES, CLEANOUTS, VALVE BOXES, METER BOXES, FIRE HYDRANTS, GAS MAINS, ELECTRIC AND TELEPHONE CONDUIT BANKS, ETC. MUST BE ADJUSTED TO THE PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE REPLACING OF PERMANENT PAVING WHERE NECESSARY.
7. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF ALL UTILITY CROSSINGS PRIOR TO THE INSTALLATION OF ANY PIPE.
8. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCE NECESSARY FOR COMPLETE INSTALLATION OF THE WATER AND WASTEWATER IMPROVEMENTS.
9. CONTRACTOR SHALL TAKE REQUIRED SANITARY PRECAUTIONS, FOLLOWING ANY CITY, TCEQ, AND AWWA STANDARDS, TO KEEP WATER PIPE AND FITTINGS CLEAN AND CAPPED AT TIMES WHEN INSTALLATION IS NOT IN PROGRESS.
10. CONTRACTOR SHALL SEQUENCE WATER AND WASTEWATER CONSTRUCTION TO AVOID INTERRUPTION OF SERVICE TO SURROUNDING PROPERTIES.
11. CONTRACTOR SHALL MAINTAIN WATER SERVICE AND WASTEWATER SERVICE TO ALL CUSTOMERS THROUGHOUT CONSTRUCTION (IF NECESSARY, BY USE OF TEMPORARY METHODS APPROVED BY THE CITY AND OWNER). THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
12. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL WATER AND WASTEWATER LINES CROSSING THE PROJECT. THE CONTRACTOR SHALL REPAIR ALL DAMAGED LINES IMMEDIATELY. ALL REPAIRS OF EXISTING WATER MAINS, WATER SERVICES, SEWER MAINS, AND SANITARY SEWER SERVICES ARE SUBSIDIARY TO THE WORK, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
13. VALVE ADJUSTMENTS SHALL BE CONSTRUCTED SUCH THAT THE COVERS ARE AT FINISHED SURFACE GRADE OF THE PROPOSED PAVEMENT.
14. ALL FIRE HYDRANTS, VALVES, TEES, BENDS, WYES, REDUCERS, FITTINGS, AND ENDS SHALL BE MECHANICALLY RESTRAINED AND OR THRUST BLOCKED.
15. CONTRACTOR SHALL INSTALL A FULL SEGMENT OF WATER OR WASTEWATER PIPE CENTERED AT ALL UTILITY CROSSINGS SO THAT THE JOINTS ARE GREATER THAN 9-FEET FROM THE CROSSING.
16. ALL CROSSINGS AND LOCATIONS WERE WASTEWATER IS LESS THAN 9-FEET FROM WATER, WASTEWATER CONSTRUCTION AND MATERIALS SHALL COMPLY WITH TCEQ CHAPTER 217.53.
17. ALL CROSSING AND LOCATIONS WHERE WATER IS LESS THAN 9-FEET FROM WASTEWATER, WATER CONSTRUCTION AND MATERIALS SHALL COMPLY WITH TCEQ CHAPTER 290.44.
18. ALL WATER AND WASTEWATER SHALL BE TESTED IN ACCORDANCE WITH AWWA, AND TCEQ STANDARDS AND SPECIFICATIONS. AT A MINIMUM, THIS SHALL CONSIST OF THE FOLLOWING:
    ALL WATERLINES SHALL BE HYDROSTATICALLY TESTED AND CHLORINATED BEFORE BEING PLACED INTO SERVICE. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THEIR REQUIRED PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS.
    WASTEWATER LINES SHALL BE PRESSURE TESTED AND A MANDREL PULLED, MANHOLES SHALL BE VACUUM TESTED. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THEIR REQUIRED PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS. AFTER COMPLETION OF THESE TESTS, A TELEVISION INSPECTION SHALL BE PERFORMED AND PROVIDED TO THE CITY AND OWNER ON A DVD.
19. WATERLINES SHALL BE INSTALLED AT NO LESS THAN THE MINIMUM COVER OF 48".
20. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS STATE LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATIONS.
22. AT ALL TIMES THAT WORK IS PROGRESSING, THE CONTRACTOR SHALL HAVE A DESIGNATED COMPETENT PERSON ON-SITE WHO SHALL BE RESPONSIBLE FOR SUPERVISING THE WORK AND WHOSE DUTY IT WILL BE TO PERFORM REQUIRED SAFETY INSPECTIONS AND TO DIRECT ALL REQUIRED CONSTRUCTION SAFETY ACTIVITIES.
23. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT VERSION OF THE CITY'S MINIMUM DESIGN STANDARDS AND SPECIFICATIONS. IN THE CASE OF CONFLICT BETWEEN DRAWINGS, SPECIFICATIONS OR THE CITY'S STANDARD REQUIREMENTS AND SPECIFICATIONS, THE MOST STRINGENT SHALL BE FOLLOWED UNLESS REQUESTED BY THE CONTRACTOR AND APPROVED IN WRITING BY THE CITY.
24. THE CONTRACTOR IS TO FOLLOW THE BEST MANAGEMENT PRACTICES (BMPS) TO COMPLY WITH EPA'S STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS.
25. THE CONTRACTOR SHALL COORDINATE THE THE CITY FOR TAPS TO EXISTING WATER MAINS FOR DOMESTIC SERVICE, PRIVATE FIRE LINES, AND HYDRANTS. CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS FOR PAYMENT OF CITY FEES FOR TAPS.
26. CONTRACTOR SHALL VERIFY TYPE AND LOCATION OF FIRE DEPARTMENT CONNECTION ACCORDING TO MEP PLANS AND SPECIFICATIONS. CONTACT THE CITY FIRE MARSHAL FOR VERIFICATIONS AND INSPECTIONS.
27. THE CITY SHALL INSTALL DOMESTIC WATER METERS UNLESS OTHERWISE NOTED. CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS FOR PAYMENT OF CITY FEES FOR METERS. CONTRACTOR SHALL INSTALL APPROPRIATE BACKFLOW DEVICE AS REQUIRED BY THE CITY FOR IRRIGATION METERS.
28. CONTRACTOR SHALL PROVIDE CONDUIT OF APPROPRIATE SIZE BETWEEN LANDSCAPE AREAS FOR IRRIGATION PIPES AND WIRING. COORDINATE WITH ARCHITECT AND LANDSCAPE PLAN.

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL AND WATER QUALITY REQUIREMENTS, LAWS, AND ORDINANCES THAT APPLY TO THE CONSTRUCTION SITE LAND DISTURBANCE.
2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE "TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM TXR 150000".
3. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE.
4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INSTALLATION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL EROSION CONTROL DEVICES, BEST MANAGEMENT PRACTICES (BMPS), AND FOR UPDATING THE EROSION CONTROL PLAN DURING CONSTRUCTION AS FIELD CONDITIONS CHANGE.
5. THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE AREA IT PROTECTS HAS BEEN PERMANENTLY STABILIZED.
6. THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS IN ACCORDANCE WITH THE SWPPP. CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC USES THE STABILIZED ENTRANCE AT ALL TIMES FOR ALL INGRESS/EGRESS.
7. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS FROM THE AFFECTED OFF-SITE ROADWAYS THAT ARE A RESULT OF THE CONSTRUCTION, AS REQUESTED BY OWNER AND CITY.
8. UPON COMPLETION OF FINE GRADING, ALL SURFACES OF DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED. STABILIZATION IS ACHIEVED WHEN THE AREA IS EITHER COVERED BY PERMANENT IMPERVIOUS STRUCTURES, SUCH AS BUILDINGS, SIDEWALK, PAVEMENT, OR UNIFORM PERENNIAL VEGETATIVE COVER.
9. AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAIN PIPE, CHANNELS, DRAINAGEWAYS AND BORROW DITCHES AFFECTED BY THE CONSTRUCTION SHALL BE DREDGED, AND THE SEDIMENT GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS.
10. THE CONTRACTOR SHALL SUBMIT A NOI TO TCEQ AT LEAST SEVEN DAYS PRIOR TO COMMENCING CONSTRUCTION (IF APPLICABLE).
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE, INCLUDING POSTING SITE NOTICE, INSPECTIONS, DOCUMENTATION, AND SUBMISSION OF ANY INFORMATION REQUIRED BY THE TCEQ AND EPA (E.G. NOI).

OJD Engineering, LLC
TX FIRM #F-4393
328 E. Hwy 62, Unit 1
WOLFFORTH, TX 79382
PH: 806-791-2300

STATE OF TEXAS
BEN LEWIS
106133
LICENSED
PROFESSIONAL ENGINEER
8-8-25

jsa
architects
1312 Ave Q,
Lubbock,Tx 79401
806-370-4550
Kerrville - Lubbock - Midland - Odessa

GOODWILL INDUSTRIES OF NORTHWEST TEXAS
NEW RETAIL & CAREER RESOURCE CENTER
512 N MLK JR. BLVD LUBBOCK, TX 79403

Goodwill
Industries of Northwest Texas
"the only disability is a bad attitude"

Issue / Revisions:

No.	Date	Description
0	08.08.2025	100% CONSTRUCTION DOCUMENTS
1		
2		
3		
4		
5		
6		
7		
8		
9		

JSA No: 2025-07

NOTES

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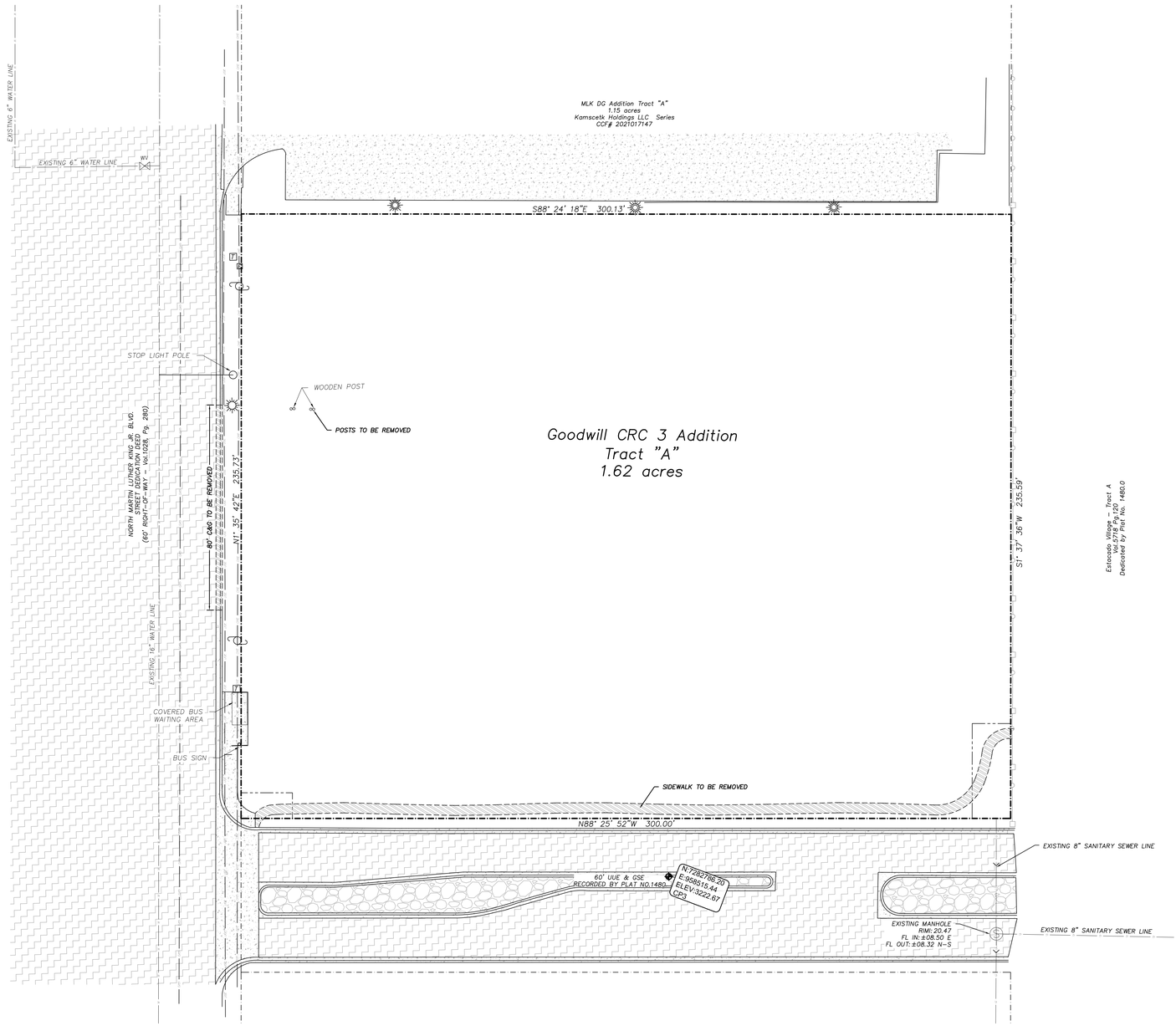

AS	ASPHALT
BC	BUILDING CORNER
C&G	CURB AND GUTTER
CL	CENTER LINE
C/O	CLEAN OUT
C	CONCRETE
CP	CONTROL POINT
E	EDGE
EX	EXISTING
FC	FENCE CORNER
FF	FINISHED FLOOR
FH	FIRE HYDRANT
FL	FLOW LINE
G	GUTTER
IRR	IRRIGATION
LD	LANDING
LP	LIGHT POLE
MH	MANHOLE
N	NATURAL GROUND
S	SANITARY SEWER LINE
SS	STREET SIGN
ST	STEP
SW	SIDEWALK
TC	TOP OF CURB
TYP	TYPICAL
VG	VALLEY GUTTER
W	WATER LINE
WM	WATER METER
WV	WATER VALVE

- TREE
- FIRE HYDRANT
- UTILITY POLE
- MANHOLE
- WATER VALVE
- WATER METER
- SIGN
- GAS VALVE
- GUY WIRE
- LIGHT POLE
- IRRIGATION
- GAS METER
- ELECTRIC PEDISTAL
- TELECOM PEDISTAL
- SEWER CLEAN OUT
- PAD MOUNTED TRANSFORMER

- FIRE LANE
- PROPERTY LINE
- EASEMENT LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- FENCE
- UNDERGROUND TELECOMMUNICATION LINE
- UNDERGROUND ELECTRICAL LINE
- OVERHEAD ELECTRICAL LINE
- GAS LINE
- SEWER LINE
- WATER LINE
- DRAINAGE ARROW

- PROPOSED HEAVY DUTY CONCRETE
- PROPOSED LIGHT DUTY CONCRETE
- PROPOSED SITE CONCRETE
- EXISTING CONCRETE
- EXISTING ASPHALT

Note:
With regard to underground utilities, information from City of Lubbock GIS, engineering plans, markings from Texas811 (ticket # 2551397042), and observed evidence has been utilized to developed a view of underground utilities. However, lacking excavation, the exact location of underground utilities and features cannot be accurately, completely or reliably depicted. In some areas, municipalities, 811 and other locate services will ignore locate requests from surveyors. Where additional or more detailed information is required, the client is advised that excavation and/or private utility locate request may be needed.

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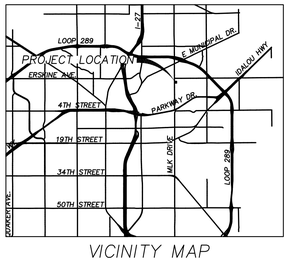

VICINITY MAP

0 10 20 40
SCALE IN FEET

NOTE:
1. HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

811 Know what's below. Call before you dig.

jsa architects
1312 Ave Q.
Lubbock,Tx 79401
806-370-4550
Kerrville - Lubbock - Midland - Odessa

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SITE DEMOLITION PLAN

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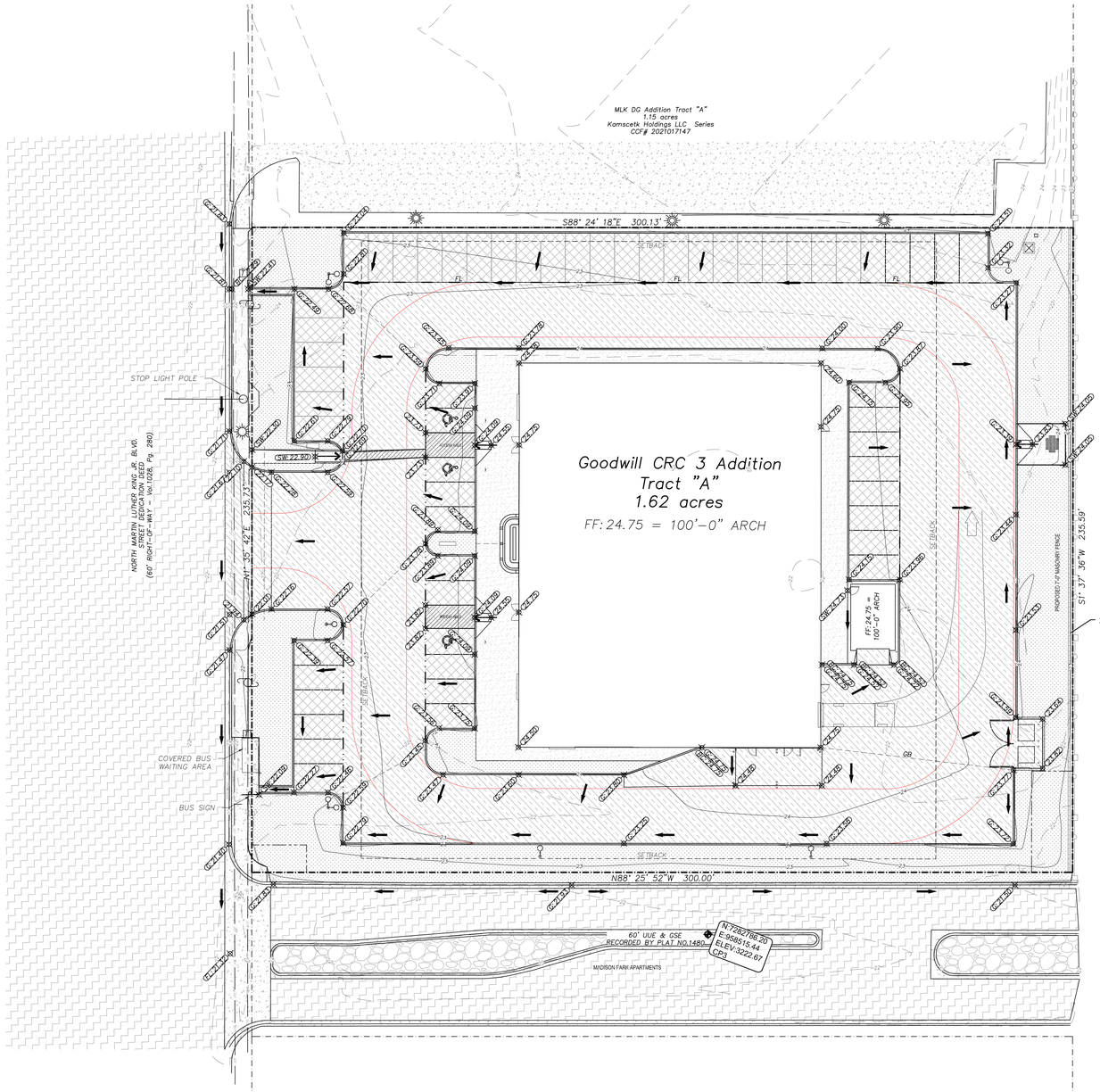

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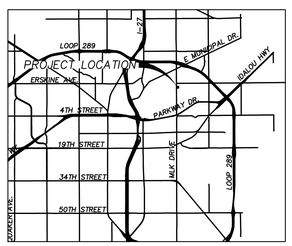

VICINITY MAP

2/3/2025 1:15:58 PM

jsa architects
1312 Ave Q.
Lubbock,Tx 79401
806-370-4550
Kerrville - Lubbock - Midland - Odessa

GOODWILL INDUSTRIES OF NORTHWEST TEXAS
NEW RETAIL & CAREER RESOURCE CENTER
512 N MLK JR. BLVD LUBBOCK.
TX 79403

Goodwill Industries of Northwest Texas
"The only disability is a bad attitude."

Issue / Revisions:

No.	Date	Description
0	08.08.2025	100% CONSTRUCTION DOCUMENTS
1		
2		
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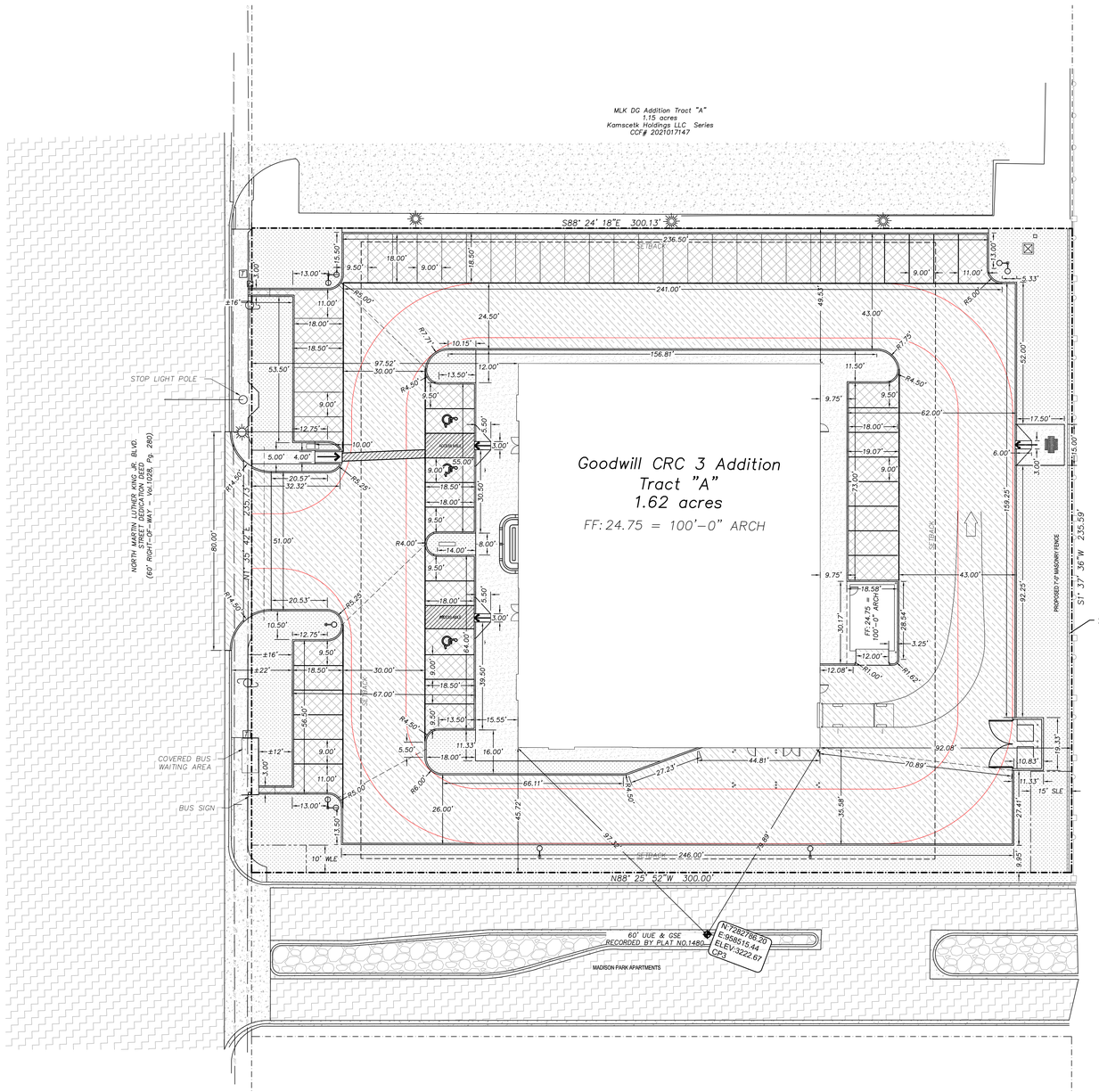
OJD Engineering, LLC
TX FIRM #F-4393
328 E. Hwy 62, Unit 1
WOLFFORTH, TX 79382
PH: 806-791-2300

STATE OF TEXAS
BEN LEWIS
106133
LICENSED
PROFESSIONAL ENGINEER
8-8-25

JSA No: 2025-07

SITE GRADING PLAN

C3.1



AS	ASPHALT
BC	BUILDING CORNER
C&G	CURB AND GUTTER
CL	CENTER LINE
C/O	CLEAN OUT
C	CONCRETE
CP	CONTROL POINT
E	EDGE
EX	EXISTING
FC	FENCE CORNER
FF	FINISHED FLOOR
FH	FIRE HYDRANT
FL	FLOW LINE
G	GUTTER
IRR	IRRIGATION
LD	LANDING
LP	LIGHT POLE
MH	MANHOLE
N	NATURAL GROUND
S	SANITARY SEWER LINE
SS	STREET SIGN
ST	STEP
SW	SIDEWALK
TC	TOP OF CURB
TYP	TYPICAL
VC	VALLEY GUTTER
W	WATER LINE
WM	WATER METER
WV	WATER VALVE

TREE
FIRE HYDRANT
UTILITY POLE
MANHOLE
WATER VALVE
WATER METER
SIGN
GAS VALVE
GUY WIRE
LIGHT POLE
IRRIGATION
GAS METER
ELECTRIC PEDISTAL
TELECOM PEDISTAL
SEWER CLEAN OUT
PAD MOUNTED TRANSFORMER

FIRE LANE
PROPERTY LINE
EASEMENT LINE
EXISTING CONTOUR
PROPOSED CONTOUR
FENCE
UNDERGROUND TELECOMMUNICATION LINE
UNDERGROUND ELECTRICAL LINE
OVERHEAD ELECTRICAL LINE
GAS LINE
SEWER LINE
WATER LINE
DRAINAGE ARROW

PROPOSED HEAVY DUTY CONCRETE
PROPOSED LIGHT DUTY CONCRETE
PROPOSED SITE CONCRETE
EXISTING CONCRETE
EXISTING ASPHALT

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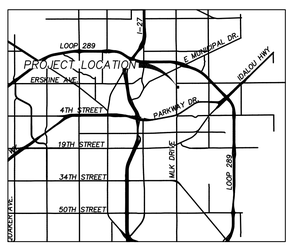

VICINITY MAP

0 10 20 40
SCALE IN FEET

NOTE:
1. HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

811 Know what's below. Call before you dig.

jsa architects
1312 Ave Q.
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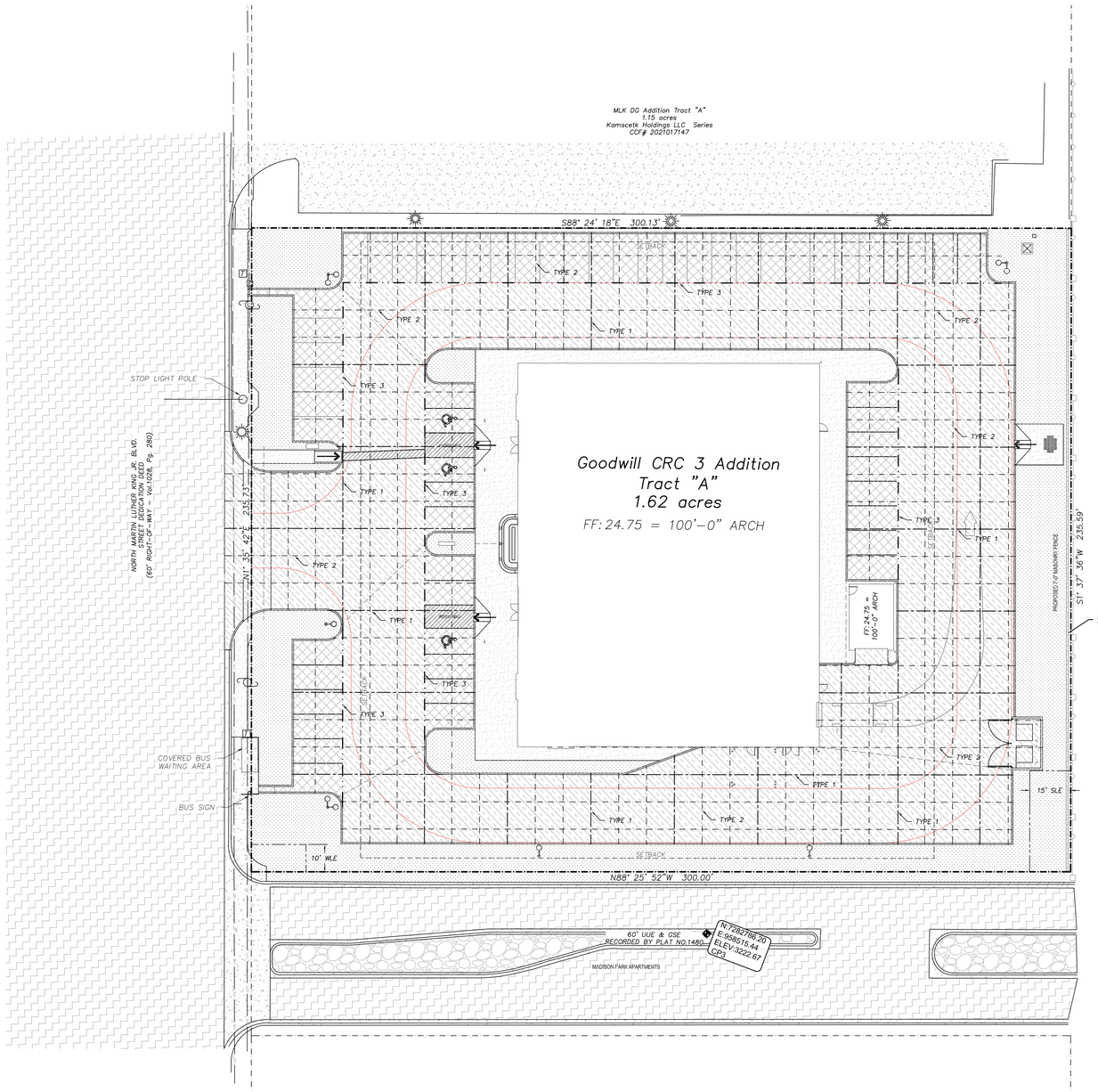
STATE OF TEXAS
BEN LEWIS
106133
LICENSED
PROFESSIONAL ENGINEER
8-8-25

JSA No: 2025-07

SITE DIMENSION CONTROL PLAN

C3.2

2/2/2025 1:15:58 PM



0 10 20 40
SCALE IN FEET

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VERTICAL DATUM: NAVD88

811 Know what's below. Call before you dig.

AS	ASPHALT	TREE
BC	BUILDING CORNER	FIRE HYDRANT
C&G	CURB AND GUTTER	UTILITY POLE
CL	CENTER LINE	MANHOLE
C/O	CLEAN OUT	WATER VALVE
C	CONCRETE	WATER METER
CP	CONTROL POINT	SIGN
E	EDGE	GAS VALVE
EX	EXISTING	GUY WIRE
FC	FENCE CORNER	LIGHT POLE
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FH	FIRE HYDRANT	GAS METER
FL	FLOW LINE	ELECTRIC PEDISTAL
G	GUTTER	TELECOM PEDISTAL
IRR	IRRIGATION	SEWER CLEAN OUT
LD	LANDING	PAD MOUNTED TRANSFORMER
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SS	STREET SIGN	
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FIRE LANE
PROPERTY LINE
EASEMENT LINE
EXISTING CONTOUR
PROPOSED CONTOUR
FENCE
UNDERGROUND TELECOMMUNICATION LINE
UNDERGROUND ELECTRICAL LINE
OVERHEAD ELECTRICAL LINE
GAS LINE
SEWER LINE
WATER LINE
DRAINAGE ARROW

EXPANSION/CONSTRUCTION JOINT (JOINT TYPE 1)
SAWED CONTRACTION JOINT (JOINT TYPE 2)
THICKENED EDGE JOINT (JOINT TYPE 3)

PROPOSED HEAVY DUTY CONCRETE
PROPOSED LIGHT DUTY CONCRETE
PROPOSED SITE CONCRETE
EXISTING CONCRETE
EXISTING ASPHALT

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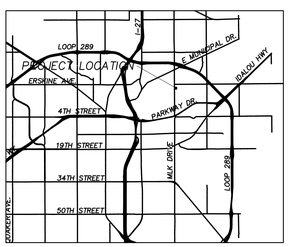

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NEW RETAIL & CAREER RESOURCE CENTER

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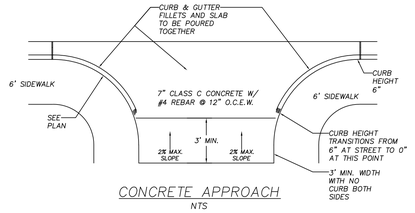
STATE OF TEXAS
BEN LEWIS
106133
LICENSED
PROFESSIONAL ENGINEER

JSA No: 2025-07

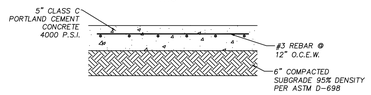
SITE JOINTING PLAN

C3.3



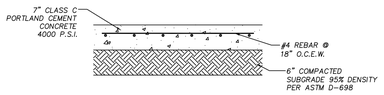
CONCRETE APPROACH

NTS



LIGHT DUTY CONCRETE PAVEMENT SECTION

NTS



HEAVY DUTY CONCRETE PAVEMENT SECTION

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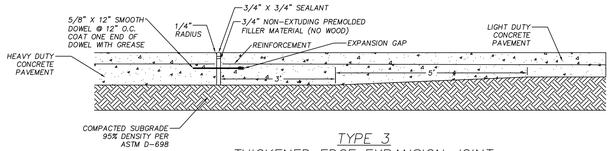
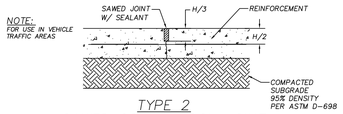


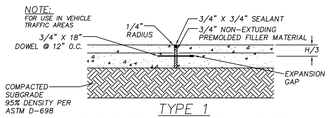
TYPE 3
THICKENED EDGE EXPANSION JOINT

NTS



TYPE 2
SAWED CONTRACTION JOINT

NTS



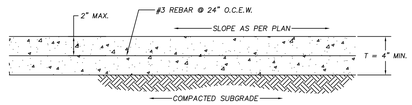
TYPE 1
DOWELED EXPANSION JOINT

NTS

NOTE:
1. JOINT SEALANT MATERIAL SHALL MET AT LEAST ONE OF THE FOLLOWING:

a. ASTMD 3405 – JOINT SEALANTS, HOT POURED FOR CONCRETE AND ASPHALT
b. ASTM D 3405 – JOINT SEALANTS, HOT POURED, ELASTOMERIC-TYPE, FOR PORTLAND CEMENT CONCRETE PAVEMENTS, TO BE USED IN JOINTS IN CONCRETE PAVEMENT

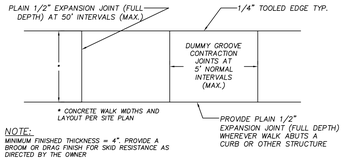
JOINT SEALING MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.



NOTE:
1. MINIMUM f'c = 3000 P.S.I. (28 DAY)
2. MINIMUM DENSITIES FOR SUBGRADES ACCORDING TO ASTM D-698 (STANDARD PROCTOR) DENSITIES SHALL BE 95% OF STANDARD PROCTOR DENSITY FOR AT LEAST THE TOP 6" OF SUBGRADE
3. AREAS OF SOFT OR YIELDING SUBGRADE BELOW THE TOP 6" SHALL BE CUT OUT, REPLACED WITH APPROVED MATERIALS, AND COMPACTED IN LIFTS TO ACHIEVE A MINIMUM 95% STANDARD PROCTOR DENSITY.

TYPICAL CONCRETE SIDEWALK – SECTONS

NTS



NOTE:
MINIMUM FINISHED THICKNESS = 4". PROVIDE A BROOM OR DRAG FINISH FOR SKID RESISTANCE AS DIRECTED BY THE OWNER

TYPICAL CONCRETE SIDEWALK – PLAN VIEW

NTS

NOTE:
FOR USE IN NON-VEHICLE AREAS
1/4" RADIUS
1.25"
REINFORCEMENT
NOTE:
1. USE FOR FLATWORK TO CONTROL CRACKING

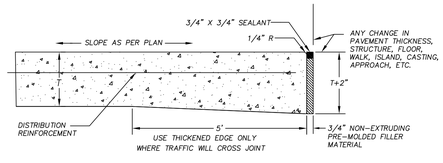
DUMMY GROOVE (TOOLED) CONTRACTION JOINT

NTS

NOTE:
FOR USE IN NON-VEHICLE AREAS
REINFORCEMENT
1/4" RADIUS
1/2" NON-EXTUDING PREMOLDED FILLER MATERIAL

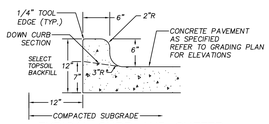
EXPANSION JOINT

NTS



PAVEMENT ISOLATION JOINT

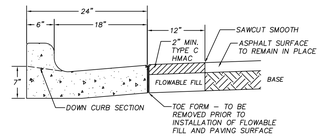
NTS



TYPICAL CURB AND GUTTER CONCRETE PAVEMENT

NTS

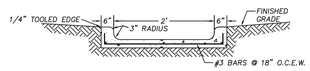
1. PROVIDE JOINTING AS FOLLOWS: DUMMY GROOVE CONTRACTION JOINTS AT NORMAL 10' INTERVALS, 1/2" PLAIN EXPANSION JOINTS AT NORMAL 50' INTERVALS (MAX.) AND AT ALL BEGINNING AND ENDING POINTS ON CURVES.
2. CURB & GUTTER SHALL BE CLASS A CONCRETE MINIMUM f'c = 3,000 P.S.I. (28-DAY TEST)
3. MINIMUM DENSITY FOR SUBGRADE MATERIAL SHALL BE IN ACCORDANCE WITH ASTM D-698. DENSITIES SHALL BE 95% FOR AT LEAST THE TOP 6" OF SUBGRADE TO A POINT AT LEAST 12" BEYOND THE BACK OF CURB.
4. AREAS OF SOFT OR YIELDING SUBGRADE BELOW THE TOP 6" SHALL BE CUT OUT, REPLACED WITH APPROVED MATERIALS, AND COMPACTED IN LIFTS TO ACHIEVE A MINIMUM 95% DENSITY.



ASPHALT REPAIR ADJACENT TO CURB AND GUTTER OR DRIVEWAY

NTS

NOTE:
1. MINIMUM f'c = 3000 P.S.I. (28 DAY)
2. COMPACT SUBGRADE 95% PER ASTM D-698
3. PROVIDE TRANSVERSE DUMMY GROOVE CONTRACTION JOINTS
4. PROVED DOWELED EXPANSION JOINTS @ 50' MAX. INTERVALS



CURBED CONCRETE CHANNEL

NTS

jsa
architects
1312 Ave Q.
Lubbock,Tx 79401
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Kerrville - Lubbock - Midland - Odessa

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DETAILS

C3.4

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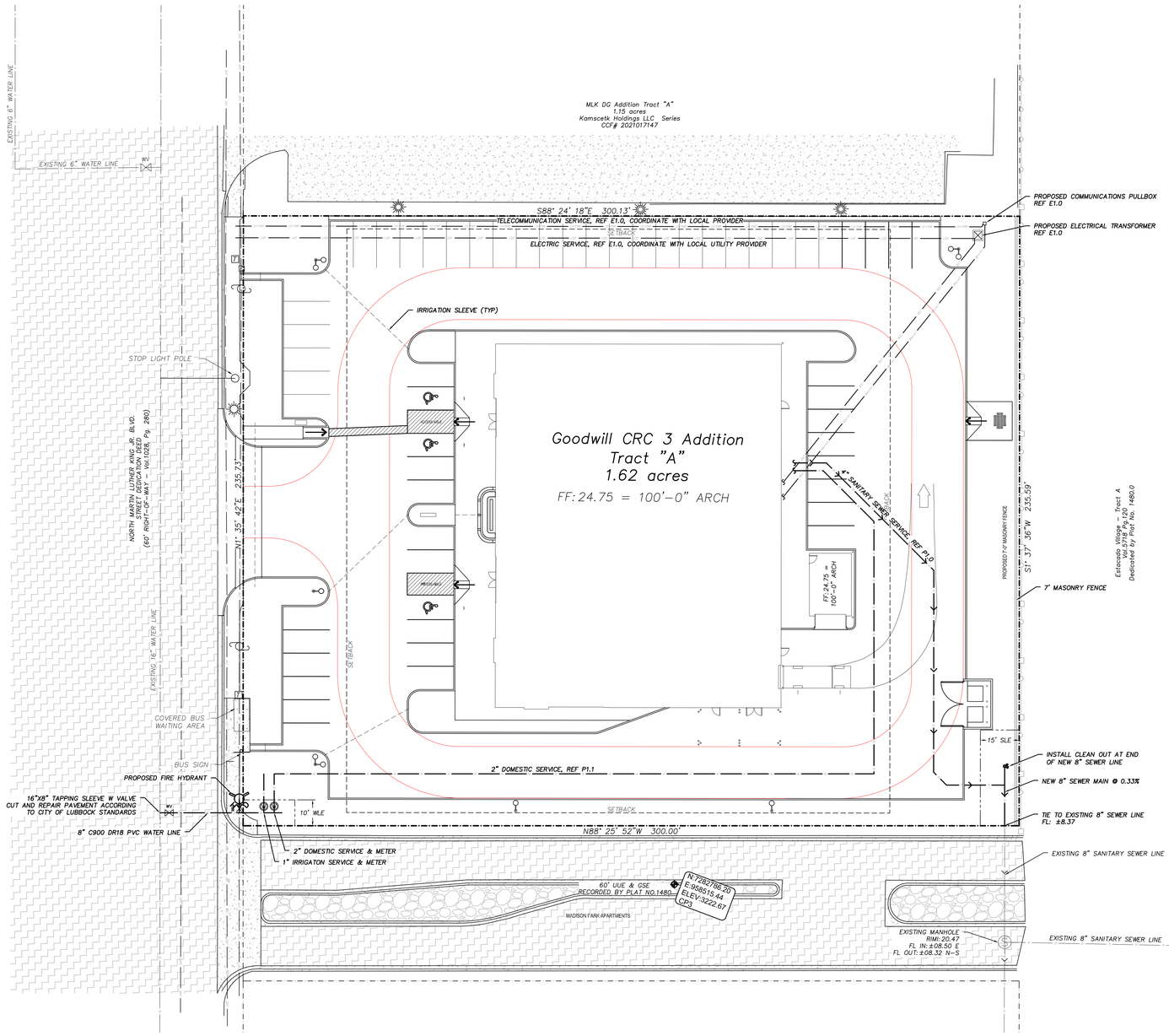

0 10 20 40
SCALE IN FEET

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VERTICAL DATUM: NAVD88

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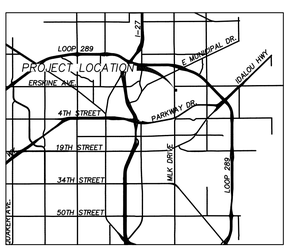

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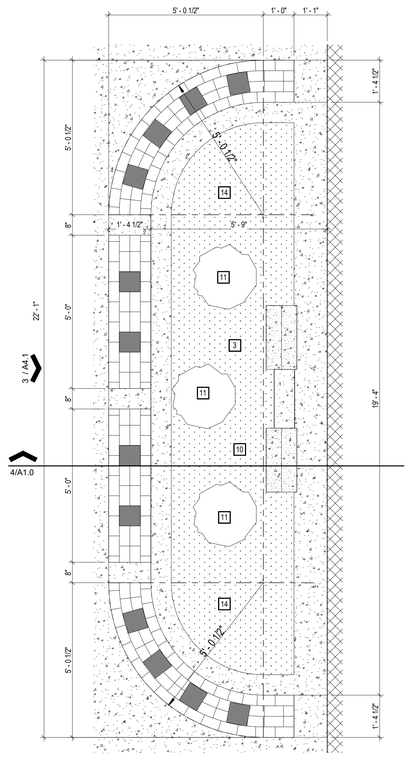
JSA No: 2025-07

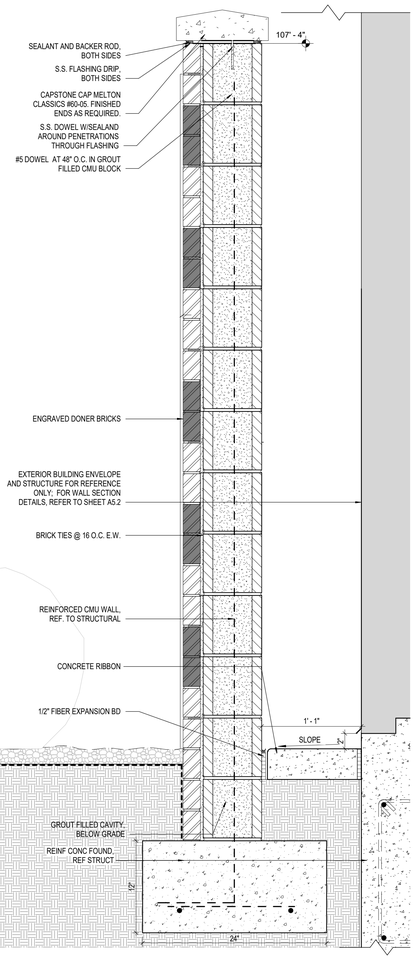
SITE UTILITY PLAN

C4.1



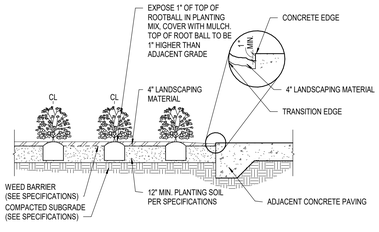
5 DONOR WALL - PLAN

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



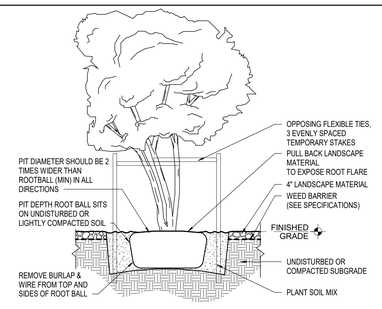
4 DONOR WALL - SECTION

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



3 TYPICAL PLANTING DETAIL

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



2 TYPICAL TREE PLANTING DETAIL

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

LANDSCAPE PLAN KEYED NOTES

X — LANDSCAPE PLAN KEYED NOTES

1. DISTRICT BUFFERYARD (NEW 7' MASONRY SCREENING FENCE).
2. PARKING BUFFERYARD. WITH 2'-0" HIGH LIVE PLANTINGS. BUFFERYARD SHALL BE A MIN. OF 5'-0" WIDE, MEASURED FROM THE FRONT PROPERTY LINE. LANDSCAPED AREA SHALL BE 3'-0" FROM THE FACE OF THE CURB OR PARKING BUMPER THAT FACES THE PARKING AREA. AS REQUIRED BY CITY OF LUBBOCK.
3. XERISCAPE AREAS WITH 5 LIVE PLANTS PER 100 S.F. METAL LANDSCAPING EDGE.
4. SHRUBS SHALL BE PLANTED AROUND THE SIGN BASE WITHIN 2'-0" OF THE SIGN. 1 SHRUB PER 4'-0" LINEAR FEET OF BASE ON EACH SIDE. AS REQUIRED BY CITY OF LUBBOCK.
5. IRRIGATION SLEEVES. REFER TO IRRIGATION NOTES ON SHEET A1.0.
6. 25'-0" VISIBILITY TRIANGLE TO REMAIN CLEAR FROM OBJECTS INCLUDING, BUT NOT LIMITED TO, VEGETATION, DRIVEWAYS, NEW STRUCTURES, FENCES, AND SIGNS.
7. IRRIGATION CONTROLLER, REFER TO SHEET A2.0 FOR EXACT LOCATION.
8. NEW DUMPSTER ENCLOSURE, REFER TO SHEET A1.1.
9. METAL LANDSCAPE EDGE.
10. PROVIDE LOW PLANTING IN FRONT OF DONOR BRICK WALL.
11. BOULDERS PROVIDED BY OWNER, INSTALLED BY CONTRACTOR. VERIFY EXACT LOCATION WITH OWNER.
12. IRRIGATION WATER METER, REFERENCE CIVIL.
13. NEIGHBORING PROPERTY; EXISTING TREE TO REMAIN.
14. PROVIDE SHURB PLANTING AT XERISCAPING AT DONOR BRICK WALL.
15. NEW 30" HIGH RED CEDAR FENCE INSIDE PROPERTY LINE WITH 12" CONC L.S. RIBBON.

LANDSCAPE SCHEDULE

TREES

SYMBOL	CODE	QTY	CONT	CAL	SIZE	SPREAD
	(CA) CANOPY	5		3" MIN.		
	(OR) ORNAMENTAL	--		2.5" MIN.		
	(EG) EVERGREEN	--			6' MIN. HT	

SHRUBS

SYMBOL	CODE	QTY	CONT	HEIGHT	SPREAD	SPACING
		8	3 GAL MIN. SHRUB			
		55		2'0" MIN. HT		CONTINUOUS

LIVE PLANTS

SYMBOL	CODE	QTY	CONT	HEIGHT	SPREAD	SPACING
		91		2'0" MAX. HT		

GROUNDCOVER

	CELEBRATION BERMUDA GRASS	8,268.86 S.F.
	GRAVEL (MIN. 5 PLANTS ON WEED BARRIER/ 100 S.F.)	3,171.10 S.F.

IRRIGATION NOTES

A. DELEGATED DESIGN OF IRRIGATION SYSTEM: LANDSCAPE CONTRACTOR TO USE SERVICES OF A CERTIFIED/LICENSED IRRIGATION CONTRACTOR TO DESIGN NEW IRRIGATION SYSTEM.

B. IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER WITH TWO COPIES OF THE PARTS LIST & MANUFACTURER'S CATALOG SHOWING PERFORMANCE QUALITY & FUNCTION OF EACH ITEM OF EQUIPMENT IN THE SYSTEM. IN ADDITION, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN INSTRUCTIONS FOR OPERATION & MAINTENANCE OF THE SYSTEM.

C. PRIOR TO THE ACCEPTANCE OF IRRIGATION SYSTEM BY OWNER, A PERSON QUALIFIED TO REPRESENT THE IRRIGATION CONTRACTOR SHALL BE PRESENT AT THE FINAL INSPECTION TO DEMONSTRATE THE SYSTEM PERFORMANCE PRIOR TO THE INSPECTION, ALL WORK SHALL HAVE BEEN COMPLETED, TESTED, ADJUSTED, & PLACED IN OPERATION.

D. IRRIGATION SYSTEM INSTALLATION & FUNCTIONALITY, INCLUDING ALL LINES, VALVES, HARDWARE, ETC, MUST BE GUARANTEED FOR TWO YEARS.

E. IRRIGATION SYSTEM INSTALLATION TO BE PERFORMED IN ACCORDANCE WITH ALL PERTINENT CODES & ORDINANCES.

F. SLEEVES SHALL BE INSTALLED WHEREVER PIPES RUN UNDER PAVEMENT. ALL SLEEVES SHALL BE 3" SCHEDULE 40 PVC & SHALL EXTEND A MINIMUM OF 12" BEYOND THE PAVEMENT. WHERE MAINLINES ARE 3" OR LARGER PROVIDE LONG SWEEPING BENDS AT ALL IRRIGATION SLEEVES, SLEEVES SHALL BE 6" SCHEDULE 40 PVC. ENDS SHALL BE CLEARLY MARKED WITH FLAGGING TAPE, PIPE, SURVEY FLAGS, OR OTHER SEMI-PERMANENT MARK.

G. DRIP LINES SHALL BE PLACED AT ALL NEW TREES.

LANDSCAPE NOTES

A. ALL LANDSCAPING AND IRRIGATION TO BE PROVIDED UNDER LANDSCAPING ALLOWANCE. REFER A1.1.

B. ALL LANDSCAPING AND IRRIGATION TO BE IN ACCORDANCE WITH CITY OF LUBBOCK STANDARDS AND REQUIREMENTS.

LANDSCAPE PLAN LEGEND

	NEW BUILDING
	GRASS W/ SPRINKLER IRRIGATION
	1" GRAVEL, 4" DEPTH W/ DRIP IRRIGATION
C	IRRIGATION CONTROLLER
O.U.	OVERHEAD UTILITY

SITE & LANDSCAPE CALCULATIONS

LANDSCAPING DATA

Zone: AC Auto-Urban Commercial

Nonresidential Development with 10,000 to 34,999 square feet gross floor area: 50 points

- Building Gross Area: 15,000 square feet
- **Point Categories. Points shall come from a minimum of 2 categories in Table 39.03.015-1, Landscape Points System, below. Categories in Table 39.03.015-1 consist of:**
  1. Street Yard Trees
  2. Foundation Landscaping
  3. Parking Landscaping
  4. Site Landscaping
  5. Other

Points Required: 50
Points Provided: 60

Bufferyard Standards

Generally

A. Voluntary Increase in Bufferyard. Where a lower classification bufferyard is required, the applicant may voluntarily provide a higher classification bufferyard, in part or in whole.

B. Groundcover Requirements. In addition to the required plantings, walls,fences, and berms, the remaining portions of all bufferyards shall contain groundcover.

C. Landscape Points for Bufferyard. Where a bufferyard is needed, correct location and composition of bufferyard shall result in **+10 points** towards the total number of landscape points required on a project.

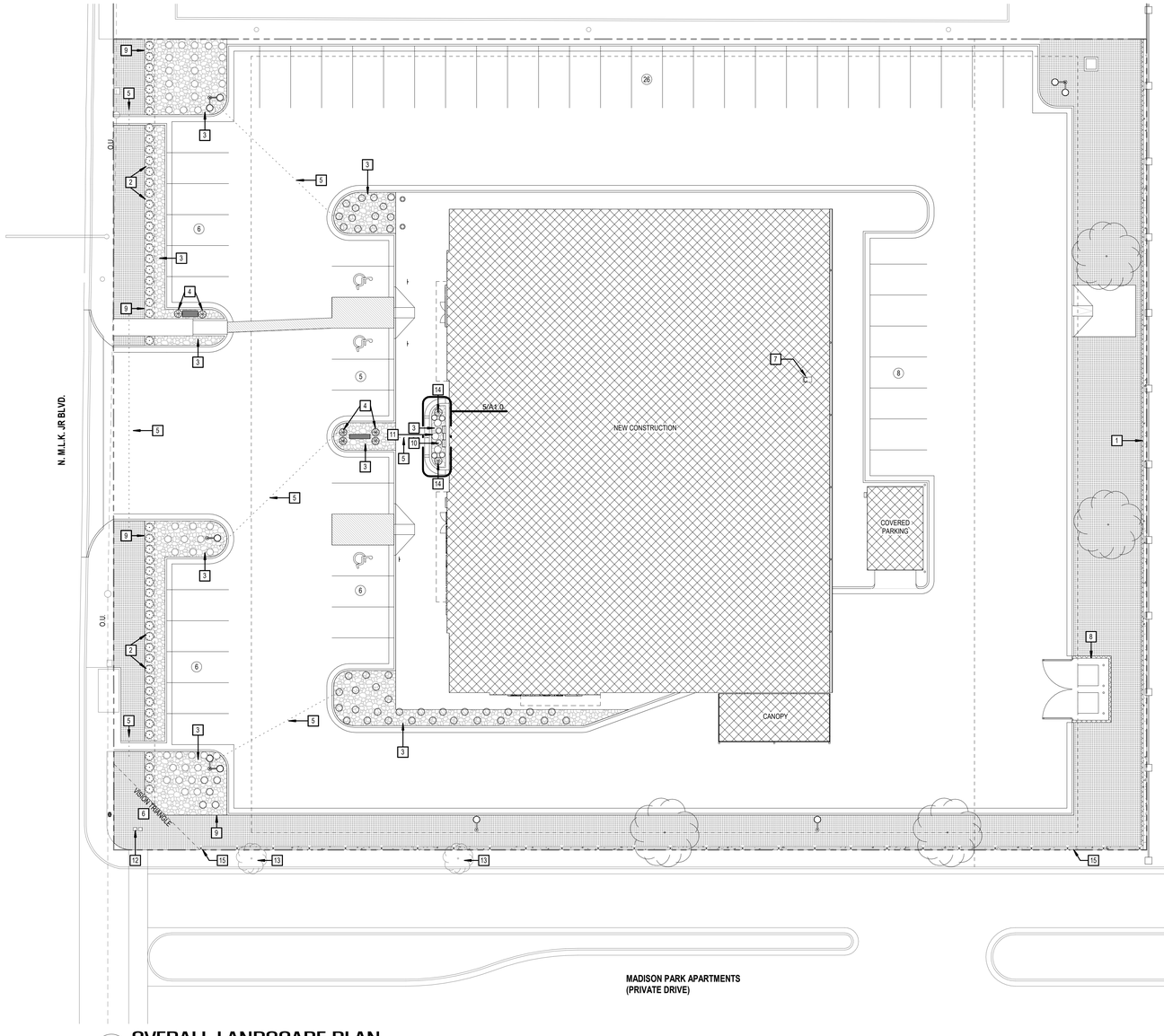
Bufferyard Composition: A parking area buffer shall be composed of any combination of the following screening devices that are 2' tall.

- Continuous plant spacing at the time of planting to provide continuous screening at time of plant maturity;
- Berm with a hedge or ornamental grasses along 90% of the linear dimension of the berm; or
- Masonry wall

Groundcover Requirements. Eligible groundcover area shall not include concrete, asphalt, or other impervious surfaces. Xeriscape Groundcover, rocks (gravel), decorative pavers, or stamped, dyed concrete may be used, provided there are a minimum of 5 live plants planted with the groundcover area for every 100 square feet of the groundcover area. The height of the groundcover plant species chosen shall not interfere with the triangle established in section 39.02.022, Measurements along access drives or anywhere throughout the parking lot.

Site Landscaping. (1) canopy or (2) ornamental trees per 2,000 square feet of site landscaping area shall result in +15 points for entire site.

Description	Possible Points	Points Earned
Parking Lot Landscaping: Total Xeriscape groundcover 1862 sf (878 near building, 984 near street frontage). Total live plants req. 93.1. Total Live Plants Provided 94	+5 For each 200 Sq.Ft.	+45 pts
Site Landscaping: 1 shrub per 4 linear ft of sign base on each side. The shrubs shall be planted around the base within 3 ft of the sign. Monument = 4'6" (1 shrub each side).	+5	+10 pts
Pole Signage = 10' (2 shrubs each side).		
Where a bufferyard is needed, correct location and composition .	+10	+10 pts
		+65 pts



1 OVERALL LANDSCAPE PLAN

SCALE: 1/16" = 1'-0"

0 4 8 16 32

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Houston - Kerrville - Lubbock
Midland - Odessa

GOODWILL INDUSTRIES OF NORTHWEST TEXAS

NEW RETAIL & CAREER RESOURCE CENTER

512 N MLK JR. BLVD LUBBOCK, TX 79403

Goodwill Industries of Northwest Texas

Issue / Revisions:

No.	Date	Description
0	08.08.2025	100% CONSTRUCTION DOCUMENTS
1		
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REGISTERED ARCHITECT — STATE OF TEXAS

08.08.2025

JSA No: 2025-07

LANDSCAPE PLAN

A1.0

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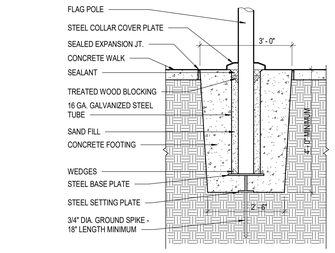
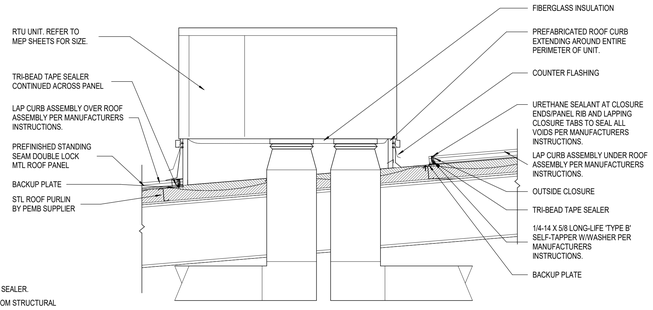


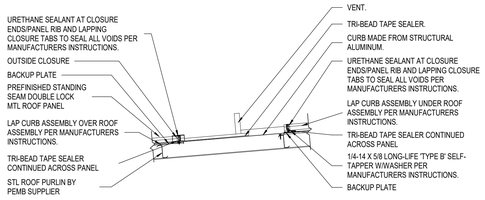
11 TYPICAL FLAGPOLE DETAIL

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



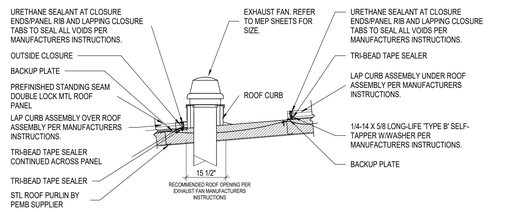
10 TYPICAL RTU ROOF DETAIL

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



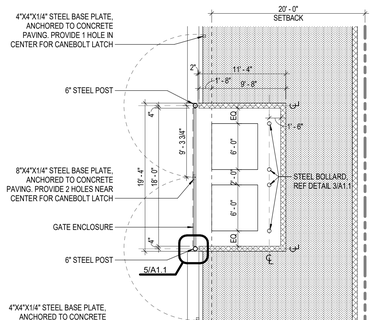
9 TYPICAL VENTS AND ROOF PENETRATIONS

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



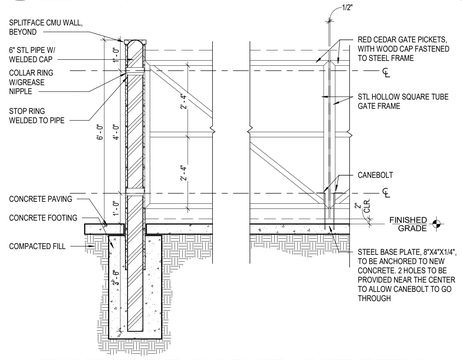
8 TYPICAL EXHAUST FAN ROOF DETAIL

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



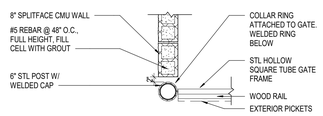
7 DUMPSTER ENCLOSURE - ENLARGED PLAN

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



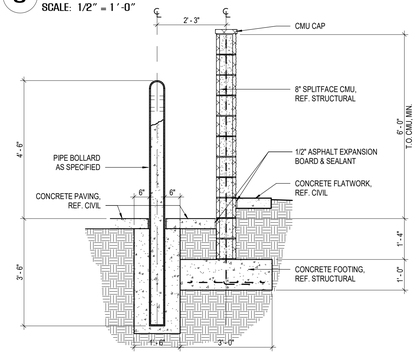
6 DUMPSTER ENCLOSURE - GATE DETAIL

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



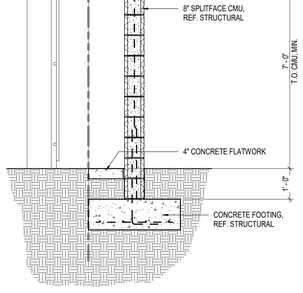
5 DUMPSTER ENCLOSURE GATE PLAN DETAIL

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



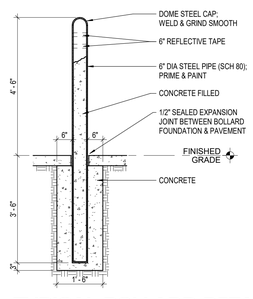
3 DUMPSTER ENCLOSURE - SECTION

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



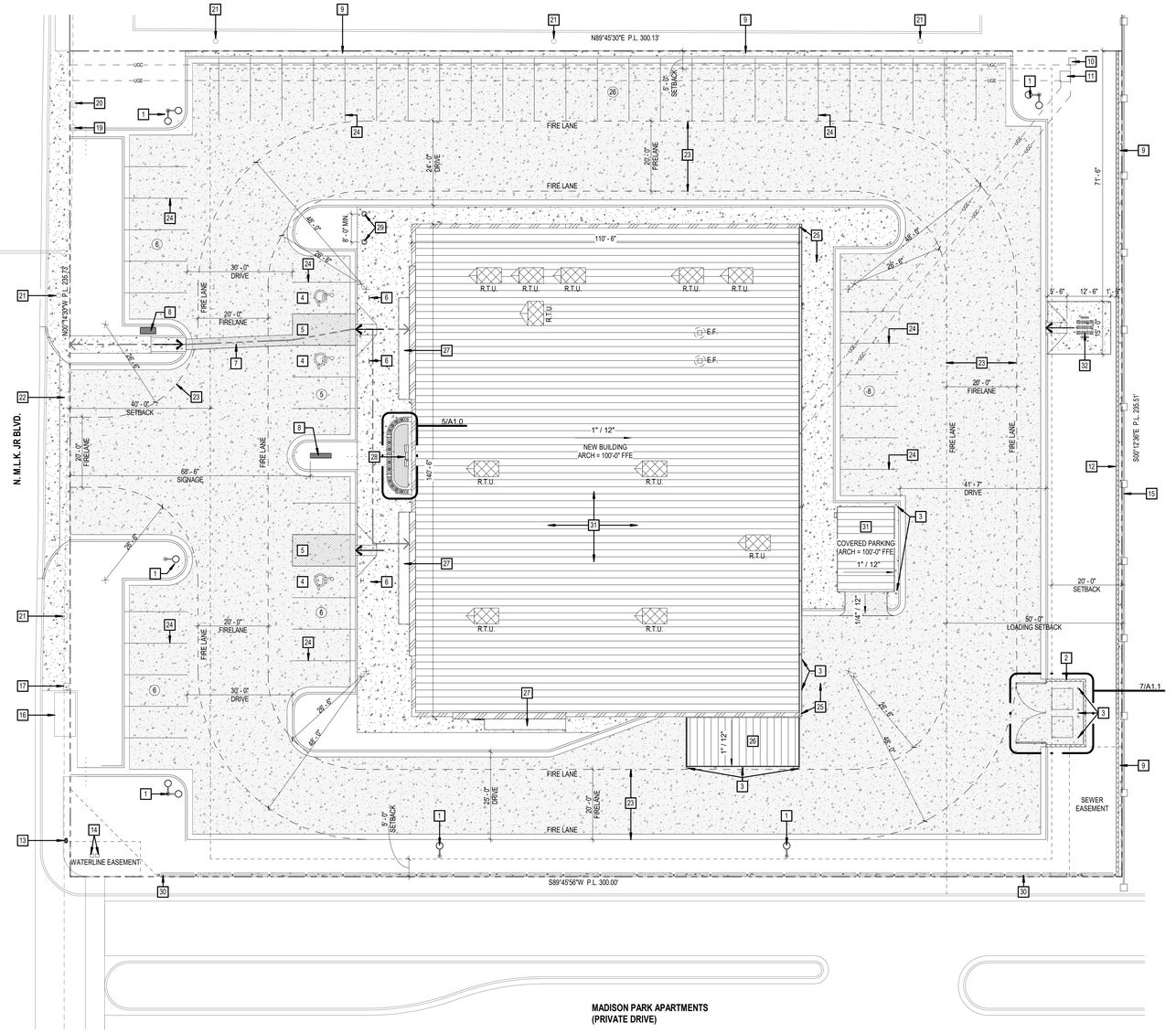
4 MASONRY FENCE DETAIL

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



2 TYPICAL BOLLARD DETAIL

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



1 OVERALL ARCHITECTURAL SITE AND ROOF PLAN

SCALE: 1/16" = 1'-0"

0 4 8 16 32

ACCESSIBLE ROUTE REQUIREMENTS

A. ACCESSIBLE PARKING SPACES AND UNLOADING ZONES SHALL NOT SLOPE MORE THAN 1:48 (2.08%) IN ANY DIRECTION.

B. ACCESSIBLE ROUTES SHALL NOT SLOPE MORE THAN 1:20 (5%) IN THE DIRECTION OF TRAVEL OR 1:48 (2.08%) PERPENDICULAR TO THE DIRECTION OF TRAVEL.

C. WHERE ACCESSIBLE ROUTES CHANGE DIRECTION, THE LANDING AREA SHALL NOT SLOPE MORE THAN 1:48 (2.08%) IN ANY DIRECTION.

D. ACCESSIBLE ROUTES SHALL NOT BE LESS THAN 3'-0" WIDE PERPENDICULAR TO THE DIRECTION OF TRAVEL.

E. SURFACES ALONG THE ACCESSIBLE ROUTE SHALL BE SMOOTH WITH NO CHANGES IN LEVEL EXCEEDING 1/4". TRANSISTIONS BETWEEN MATERIALS ALONG AN ACCESSIBLE ROUTE SHALL BE FLUSH.

F. REFER TO SECTION 4 IN THE LATEST EDITION OF THE TEXAS ACCESSIBILITY STANDARDS FOR FURTHER REQUIREMENTS FOR ACCESSIBLE ROUTES.

G. THE CONTRACTOR SHALL PROVIDE ADDITIONAL REINFORCED CONCRETE WALK AS REQUIRED AROUND OBSTACLES TO MAINTAIN MINIMUM 3'-0" REQUIRED CLEARANCE.

H. THE GENERAL CONTRACTOR SHALL PROVIDE HC SIGNS AND POSTS IN STRICT ACCORDANCE WITH CITY, STATE, AND NATIONAL STANDARDS.

ALLOWANCES

A. PROVIDE OWNER'S BETTERMENT ALLOWANCE OF $150,000 FOR USE UPON OWNER'S INSTRUCTIONS.

B. PROVIDE MATERIALS TESTING ALLOWANCE OF $15,000 FOR THE TESTING OF MATERIALS BY OWNER SELECTION.

C. PROVIDE TEST AND BALANCE ALLOWANCE OF $5,000 FOR TESTING AND BALANCING THE HVAC SYSTEM BY OWNER SELECTION.

D. PROVIDE LANDSCAPE ALLOWANCE OF $70,000/SF FOR INSTALLATION OF LANDSCAPING AND IRRIGATION.

X – SITE & ROOF PLAN KEYED NOTES

1 NEW LIGHT POLE, REFER TO ELECTRICAL DRAWINGS.
2 NEW DUMPSTER ENCLOSURE, REFER DETAILS THIS SHEET.
3 NEW 6" DIAMETER BOLLARDS, REFER DETAILS THIS SHEET. REFER FLOOR PLAN 1/A2.0 FOR ADDITIONAL LOCATIONS.
4 ACCESSIBLE PARKING SYMBOL, REFER SHEET G1.0 & CIVIL.
5 ACCESS AISLE TO BE STRIPED AS REQUIRED BY TAS. REF. TO SHEET G1.0 & CIVIL.
6 PARKING SPACE IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. 60" MINIMUM ABOVE SURFACE MEASURED TO THE BOTTOM OF THE SIGN. AS REQUIRED BY TAS. REF. TO SHEET G1.0.
7 ACCESSIBLE ROUTE TO BE STRIPED AS INDICATED.
8 NEW SIGNAGE, REFER TO STRUCTURAL & ELECTRICAL.
9 NEW 4" THICK REINFORCED CONCRETE RIBBON.
10 NEW COMMUNICATION PULL BOX. REF. ELECTRICAL SHEET E1.0.
11 NEW ELECTRICAL TRANSFORMER ON REINFORCED CONCRETE PAD, REF CIVIL.
12 NEW 7' MASONRY SCREENING FENCE, REF. TO DETAILS THIS SHEET & STRUCTURAL FOR ADDITIONAL NOTES. PROVIDE EXPANSION JOINTS AT NO GREATER THAN 25' - 0" O.C.
13 NEW FIRE HYDRANT, REFER CIVIL.
14 NEW WATER METERS, REFER CIVIL.
15 EXISTING FENCE TO REMAIN.
16 EXISTING BUS STOP TO REMAIN.
17 EXISTING TELEPHONE PEDESTAL TO REMAIN.
18 EXISTING TRAFFIC SIGNAL TO REMAIN.
19 EXITING UTILITY POLE TO REMAIN.
20 EXISTING ELECTRICAL TRANSFORMER TO REMAIN.
21 EXISTING LIGHT POLE TO REMAIN.
22 3'-0" MIN. ACCESSIBLE ROUTE AT NEW APPROACH, REFER CIVIL & SITE NOTES.
23 FIRE LANE STRIPING MUST CONSIST OF 6" WIDE RED STRIPE , WITH (4) 4" HIGH WHITE LETTERS USING 3/4" STROKE STATING "FIRE LANE NO PARKING" OR "NO PARKING FIRE LANE EVERY 40' ALONG THR ENTIRE LENGTH OF THE FIRE LANE. MUST BE VISIBLE UPON THE VERTICAL SURFACE OF THE CURB UNLESS OTHERWISE NOTED BY THE CHIEF.
24 PARKING STRIPING AT 90° O.C. (TYPICAL), REFER CIVIL.
25 ROOF GUTTER & DOWNSPOUTS, REFER EXTERIOR ELEVATIONS.
26 MBCI PBR METAL ROOF PANELS WITH LAP SEALANT AS REQUIRED BY CODE.
27 4'-0" MAPES CANTILEVER CANOPY TO BE SUPER LUMIDECK WITH FLAT SOFFIT, 8" J FASCIA IN BLACK FINISH.
28 DONOR BRICK PAVERS & DONOR WALL. REF. ELEVATION 3/A4.1 & DETAILS ON SHEET A1.0. ENGRAVED DONOR BRICKS TO BE PROVIDED BY OWNER & INSTALLED BY GENERAL CONTRACTOR. COORDINATE INSTALLATION WITH OWNER.
29 25 FT FLAG POLES. CONFIRM SPACING REQUIRMENTS PRIOR TO PLACEMENT.
30 NEW 30" HIGH RED CEDAR FENCE INSIDE PROPERTY LINE WITH 12" CONC.L.S. RIBBON.
31 MBCI STANDING SEAM DOUBLE-LOK METAL ROOF PANELS.
32 PICNIC TABLE AND BENCH BY OWNER.

SITE & ROOF PLAN LEGEND

E.F. NEW EXHAUST FAN - REFER TO MECHANICAL
E.V. NEW EXHAUST VENT - REFER TO MECHANICAL
R.T.U. NEW ROOF TOP UNIT - REFER TO MECHANICAL
PRE-FINISHED METAL ROOF PANELS
NEW CONCRETE WALK
NEW CONCRETE PAVING
NEW MTL COPING
LANDSCAPE AREA, REF. TO L.S. PLAN FOR DETAILED INFORMATION
ACCESSIBLE ROUTE
(#) PARKING SPACES IN ROW

GENERAL NOTES

A. SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE" ON SIGNAGE 60" MIN. ABOVE MEASURED GROUND.
B. THE GENERAL CONTRACTOR WILL BE REQUIRED TO COORDINATE ALL TRADES AS NECESSARY.
C. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL ITEMS WHICH ARE DAMGED DURING CONSTRUCTION AT NO EXTRA COST TO THE OWNER.
D. ALL EXISTING GRADES SHALL BE VERIFIED BY THE GENERAL CONTRACTOR. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO ANY WORK. ALL CUT AND FILL SHOWN ON THE DRAWINGS SHALL BE INCLUDED IN THE PROJECT. ALL FINISHED GRADES ARE TO SLOPE UNIFORMLY AWAY FROM THE BUILDING. SITE CLEARING WILL BE DONE BY THE GENERAL CONTRACTOR BEFORE COMMENCEMENT OF WORK.
E. THE GENERAL CONTRACTOR WILL BE REQUIRED TO LOCATE , COORDINATE, AND MAKE ALL NESSESSARY PROVISIONS TO CONNECT TO ALL EXISTING UTILITIES.
F. ANY NEW CONTRACTOR SHALL TIE-IN EXISTING MATERIALS WITH SMOOTH TRANSITIONS. PROTECT ALL EXISTING MATERIALS, REPLACE ANY DAMAGED MATERIALS CAUSED BY CONSTRUCTION.
G. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE SURVEYOR TO VERIFY ESTABLISHED BENCHMARK, ESTABLISHED CORNER OF BUILDING, AND ALL RELATED DIMENSIONS AND ELEVATIONS.
H. THE GENERAL CONTRACTOR SHALL PROVIDE ALL PAINTED PARKING STRIPES AND GRAPHICS AS REQUIRED.
I. REFER TO THE MECHANICAL AND PLUMBING DRAWINGS FOR ROOF TOP UNITS, ELECTRICAL CONDUIT, PLUMBING VENTS, ROOF CURBS, EXAUST FANS, AND OTHER EQUIPMENT LOCATED ON THE NEW AND EXISTING ROOFS.
J. REFER TO ROOFING SPECIFICATIONS FOR DETAILED ROOFING SPECIFICATIONS AND REQUIRED ROOF WARRANTIES.
K. THE MECHANICAL ROOF TOP UNITS SHALL BE INSTALLED ON SLOPING FACTORY MANUFACTURED INSULATED CURBS. ROOF CONTRACTOR SHALL PROVIDE ALL CANTS, ROOFING, FLASHINGS, AND ADDITIONAL CONTINUOUS 1x4 NAILER ON SIDE OF MECHANICAL CURBS FOR ROOF FLASHING.
L. ALL PIPING / CONDUIT SHALL BE SUPPORTED ON MANUFACTURER PIPE SUPPORTS. REFERENCE MPE SHEETS FOR LOCATIONS.

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Houston - Kerrville - Lubbock
Midland - Odessa

GOODWILL INDUSTRIES OF NORTHWEST TEXAS

NEW RETAIL & CAREER RESOURCE CENTER

512 N MLK JR. BLVD LUBBOCK, TX 79403

Goodwill Industries of Northwest Texas

Issue / Revisions:

No.	Date	Description
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1		
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REGISTERED ARCHITECT DANIEL J. ZIMMERMAN 24004 STATE OF TEXAS

08.08.2025

JSA No: 2025-07

ARCHITECTURAL SITE AND ROOF PLAN

A1.1

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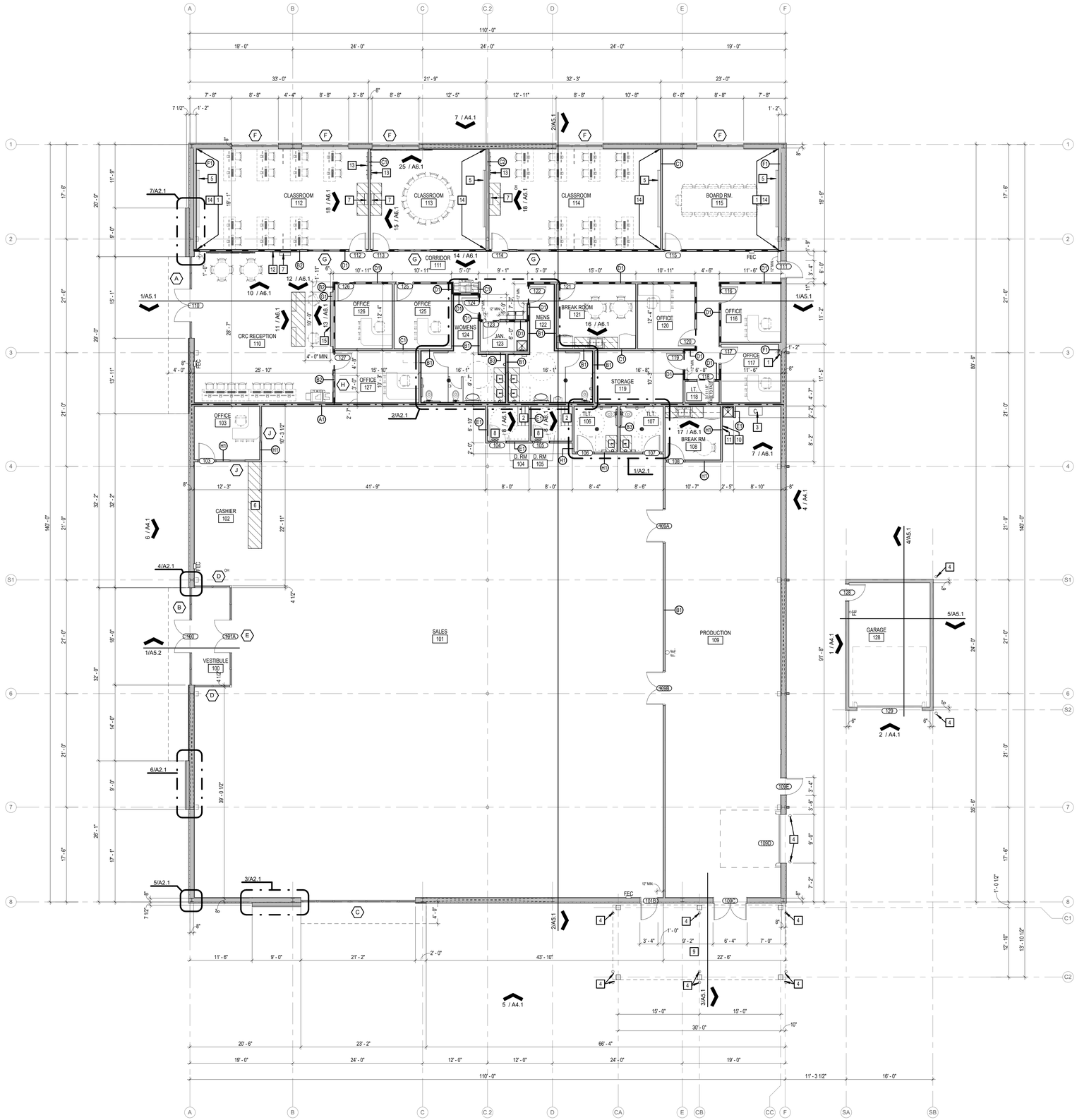

1 FLOOR PLAN - OVERALL

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

0 2 4 8 16

GENERAL NOTES

A. THE FOLLOWING NOTES APPLY TO ALL PLAN SHEETS.

B. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT FOR CORRECTION BEFORE PROCEEDING WITH CONSTRUCTION.

C. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD.

D. BLOCKING SHALL BE REQUIRED IN ALL STUD WALLS TO RECEIVE HANDRAILS, GRAB BARS, SHELVING, DOOR STOPS, AND ALL OTHER SIMILAR ITEMS REQUIRING A SECURE ANCHOR.

E. ALL PARTITIONS ARE TYPE "C1" UNLESS NOTED OTHERWISE.

F. THE GENERAL CONTRACTOR WILL BE REQUIRED TO COORDINATE ALL TRADES AS NECESSARY TO INSTALL ALL HANGING DEVICES FOR INSTALLATION OF ALL PIPING, MECHANICAL AND ELECTRICAL SYSTEMS.

G. REFER TO MPE, STRUCTURAL, AND CIVIL SHEETS FOR ADDITIONAL REQUIREMENTS.

H. REFER A1.1 FOR ALTERNATES AND ALLOWANCES.

I. REFER ROOM FINISH SCHEDULE FOR SHEATHING NOTES.

PLAN LEGEND

- NEW METAL STUD WALL CONSTRUCTION
- XX — WINDOW TYPE - REFER TO A3 SHEETS
- X — KEYED NOTE - REFER THIS SHEET
- XXXX — DOOR TAG, REFER TO A3 SHEETS
- XX / A4.1 — ELEVATION
- SIM / 1/A101 — SECTION
- FEC — FIRE EXTINGUISHER CABINET
- FE — WALL MOUNTED FIRE EXTINGUISHER
- MILLWORK - REFER TO SHEET A6.1
- (1) — PARTITION TYPE - REFER TO SHEET A3.2

X — KEYED NOTES

1 FURR STUD WALL AS REQUIRED TO CONCEAL PEMB SLOPED COLUMN.
2 ACCESSIBLE CHANGING ROOM BENCH. REFER G1.0 FOR ACCESSIBILITY NOTES.
3 IRRIGATION CONTROLLER, REFER LANDSCAPING PLAN SHEET A1.0.
4 6" DIAMETER BOLLARDS, REFER DETAILS ON SHEET A1.1.
5 OWNER PROVIDED WALL MOUNTED PROJECTOR SCREEN INSTALLED BY G.C.
6 CASHIER MILLWORK PROVIDED AND INSTALLED BY OWNER. MILLWORK SHALL COMPLY WITH TAS REQUIREMENTS.
7 WALL MOUNTED PHONE CHARGING STATION AT 42" A.F.F. BASIS OF DESIGN: VIPATEY VIP-02 8-PORT. REFER ELECTRICAL.
8 OWNER PROVIDED & INSTALLED DOOR. DOOR SHALL COMPLY WITH TAS REQUIREMENTS.
9 DONATION DROP-OFF ZONE.
10 MOP RACK (24" WIDE).
11 CHEMICAL DISPENSERS PROVIDED BY OWNER.
12 OWNER PROVIDED TV & BRACKET, INSTALLED BY GC. GC TO PROVIDE IN-WALL BLOCKING AND COORDINATING MOUNTING HEIGHT WITH OWNER.
13 TWO ROWS OF 5 BACKPACK HANGERS. REFER TO SHEETS A2.2 & A6.1 FOR MORE INFORMATION.
14 DRY ERASE BOARD, FULL WIDTH.
15 OWNER PROVIDED SIGNAGE, INSTALLED BY GC. GC TO PROVIDE IN-WALL BLOCKING AND COORDINATING MOUNTING HEIGHT WITH OWNER.

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GOODWILL INDUSTRIES OF NORTHWEST TEXAS

NEW RETAIL & CAREER RESOURCE CENTER

512 N MLK JR. BLVD LUBBOCK, TX 79403

Goodwill Industries of Northwest Texas

Issue / Revisions:

No.	Date	Description
0	08.08.2025	100% CONSTRUCTION DOCUMENTS
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REGISTERED ARCHITECT — STATE OF TEXAS

08.08.2025

JSA No: 2025-07

FLOOR PLAN

A2.0

08/8/2025 3:48:17 PM Autodesk Docs://2025-07 Goodwill - New Facility/2025-07 Goodwill - New Facility.rvt

GENERAL NOTES

A. THE FOLLOWING NOTES APPLY TO ALL PLAN SHEETS.

B. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT FOR CORRECTION BEFORE PROCEEDING WITH CONSTRUCTION.

C. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD.

D. BLOCKING SHALL BE REQUIRED IN ALL STUD WALLS TO RECEIVE HANDRAILS, GRAB BARS, SHELVING, DOOR STOPS, AND ALL OTHER SIMILAR ITEMS REQUIRING A SECURE ANCHOR.

E. ALL PARTITIONS ARE TYPE "C1" UNLESS NOTED OTHERWISE.

F. THE GENERAL CONTRACTOR WILL BE REQUIRED TO COORDINATE ALL TRADES AS NECESSARY TO INSTALL ALL HANGING DEVICES FOR INSTALLATION OF ALL PIPING, MECHANICAL AND ELECTRICAL SYSTEMS.

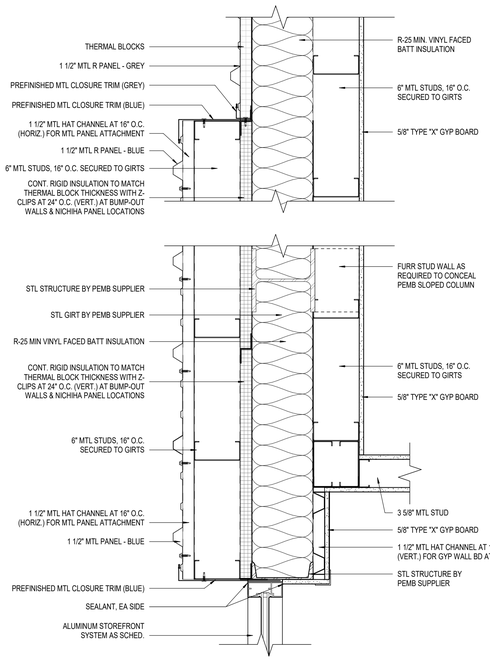
G. REFER TO MPE, STRUCTURAL, AND CIVIL SHEETS FOR ADDITIONAL REQUIREMENTS.

H. REFER A1.1 FOR ALTERNATES AND ALLOWANCES.

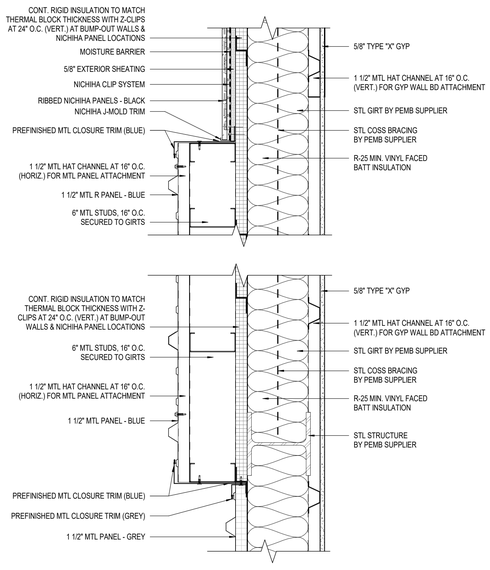
I. REFER ROOM FINISH SCHEDULE FOR SHEATHING NOTES.

PLAN LEGEND

- NEW METAL STUD WALL CONSTRUCTION
- XX — WINDOW TYPE - REFER TO A3 SHEETS
- X — KEYED NOTE - REFER THIS SHEET
- XXXX — DOOR TAG
- XX / A4.1 — ELEVATION - REFER A4 SHEETS
- SIM / 1/A101 — SECTION - REFER A5 SHEETS
- FEC — FIRE EXTINGUISHER CABINET
- MILLWORK - REFER TO SHEET A6.0
- NEW TOILET PARTITIONS, REFER TO SPECIFICATIONS SECTION 10165
- TOILET ACCESSORIES - REFER TO THIS SHEET



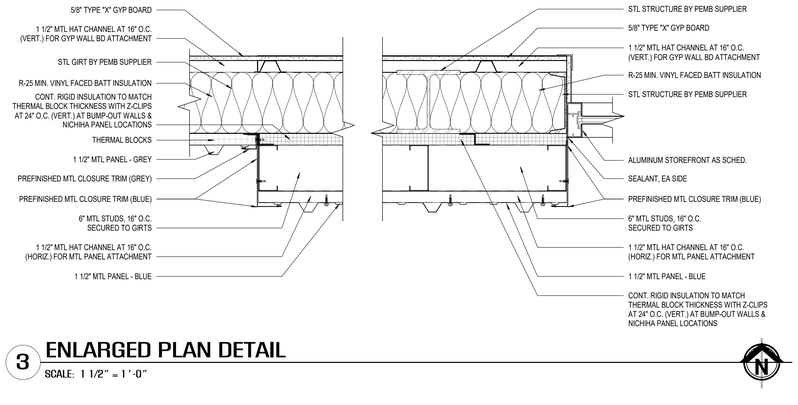
7 ENLARGED PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



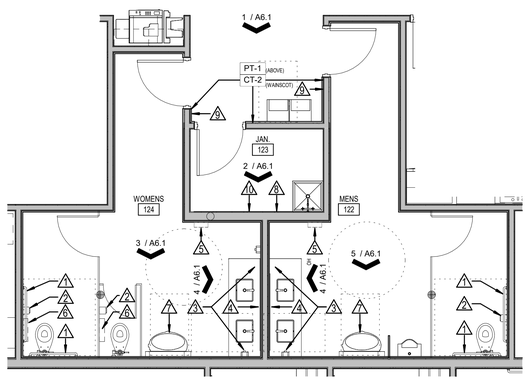
6 ENLARGED PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

5 ENLARGED PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

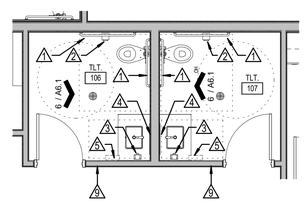
4 ENLARGED PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



3 ENLARGED PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



2 124 WOMENS & 122 MENS
SCALE: 1/4" = 1'-0"
0 1 2 4 8



1 106 TLT & 107 TLT
SCALE: 1/4" = 1'-0"
0 1 2 4 8

TOILET ACCESSORIES LEGEND

1	GRAB BARS (REAR 36", SIDE 42")
2	TOILET TISSUE HOLDER (PROVIDED BY OWNER)
3	SOAP DISPENSER (PROVIDED BY OWNER)
4	FULL WIDTH MIRROR UNIT x 36" T
5	PAPER TOWEL HOLDER (PROVIDED BY OWNER)
6	SANITARY NAPKIN DISPOSER
7	DIAPER CHANGING STATION
8	MOP RACK (24" WIDE)
9	ACCESSIBLE TOILET SIGN
10	CHEMICAL DISPENSERS (PROVIDED BY OWNER)

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REGISTERED ARCHITECT DANIEL J. ZIMMERMAN STATE OF TEXAS

08.08.2025

JSA No: 2025-07

ENLARGED FLOOR PLANS

A2.1

8/8/2025 1:49:06 PM Architects Docs://2025-07 Goodwill - New Facility/2025-07 Goodwill - New Facility.rvt

KEYED NOTES

1 HOLD DOWN CLIPS ON ACOUSTICAL CEILING PANELS WITHIN 20 FT OF ALL EXTERIOR DOORS.
2 ACCENT WALL. REFER TO ROOM FINISH SCHEDULE.
3 SPECIAL WALL FINISHES; REFER INTERIOR ELEVATIONS.

CEILING LEGEND

- 2 x 2 SUSPENDED LAY-IN CEILING W/ 6" BATTS ABOVE
- GYPSUM BOARD CEILING OVER METAL STUD FRAMING W/ 6" BATTS ABOVE
- 2 x 4 LIGHT FIXTURE - REFER TO MPE SHEETS
- 4" LIGHT STRIP - REFER TO MPE SHEETS
- LIGHT STRIP - REFER TO MPE SHEETS
- SUSPENDED LIGHTING - REFER TO MPE SHEETS
- 6" RECESSED CAN LIGHTING - REFER TO MPE SHEETS
- SUPPLY AIR GRILLE - REFER TO MPE SHEETS
- RETURN AIR GRILLE - REFER TO MPE SHEETS
- X — KEYED NOTE
- XXXX — ROOM NUMBER
- SIM / 1/A101 — RCP SECTION
- EXIT SIGN, REF. MPE SHEETS
- FLOOR BOX, REF. ELECTRICAL

CEILING NOTES

A. COORDINATE ALL MECHANICAL ITEMS, LIGHTING, ETC. WITH CEILING CONTRACTOR. VERIFY EXACT LAYOUT WITH ARCHITECT PRIOR TO INSTALLATION.

B. UNLESS OTHERWISE NOTED, PARTITIONS SHALL EXTEND A MINIMUM OF 6" ABOVE HIGHEST ADJACENT CEILING.

C. REFER TO SPECIFICATIONS UNDER THE DIFFERENT TYPES OF CEILINGS FOR SPECIAL HANGING REQUIREMENTS.

D. PAINT ALL EXPOSED STRUCTURE AND DUCT WORK.

E. REFER TO FLOOR PLAN FOR PARTITION TYPES.

F. REFER TO MECHANICAL SHEETS FOR GRILLE LOCATIONS.

FINISHES KEY

FINISH CODE	DESCRIPTION
FLOORS	
CT-1	CERAMIC TILE: MSI, BELMOND OBSIDIAN CERAMIC TILE, NBELOBS8X40. COLOR: BLACK, 8X40, STRAIGHT OFFSET
GRT-1	GROUT/FLOORS/WALLS: LATICRETE, PERMACOLOR SELECT, COLOR: 45 RAVEN, GROUT JOINT 1/8" MAX.
LVP-1	LUXURY VINYL TILE: MANNINGTON, NO RESERVATIONS XPRESS WOOD, BRAZEN NR104, 7.25X48, STRAIGHT OFFSET
LVP-2	LUXURY VINYL TILE: MANNINGTON, NO RESERVATIONS XPRESS ABSTRACT, VIVACIOUS NR309, 6X36, STRAIGHT OFFSET
SC-1	SEALED CONCRETE - REFER TO SPECIFICATIONS
BASE	
RB-1	RESILIANT BASE:, FLEXCO VINYL WALL BASE, #A532, COLOR: BLACK DAHLIA, 4" COVE.
WALLS	
CG	STAINLESS STEEL CORNER GUARD
CT-1	CERAMIC TILE: MSI, BELMOND OBSIDIAN CERAMIC TILE, NBELOBS8X40. COLOR: BLACK, 8X40, STRAIGHT OFFSET
CT-2	PORCELAIN TILE: MSI, GRIDSCALE ICE CERAMIC TILE, NGRICE1224. WHITE-COOL, 12X24, STRAIGHT OFFSET
FRP-1	FIBERGLASS REINFORCED PANELS: SEQUENTIA, #FTSTF.1031, WHITE. 48X96
GRT-1	GROUT/FLOORS/WALLS: LATICRETE, PERMACOLOR SELECT, COLOR: 45 RAVEN. GROUT JOINT 1/8" MAX.
GRT-2	GROUT/FLOORS/WALLS: LATICRETE, PERMACOLOR SELECT, COLOR: 09 FROSTY, GROUT JOINT 1/8" MAX.
MT-1	CORRUGATED METAL PANEL: STANDARD GALVANIZED STEEL CORRUGATED METAL PANEL AND TRIM.
PT-1	PAINT: SHERWIN WILLIAMS: CUSTOM RGB 187-187-191, LT GREY
PT-2	PAINT: SHERWIN WILLIAMS: SW 7005, PURE WHITE
PT-3	PAINT: SHERWIN WILLIAMS: CUSTOM RGB 235-151-47, ORANGE
ACCENT WALL	
*PT-5	PAINT: SHERWIN WILLIAMS: CUSTOM RGB 0-85-164, BLUE
*PT-6	PAINT: SHERWIN WILLIAMS: CUSTOM RGB 0-70-158, TEAL
*PT-7	PAINT: SHERWIN WILLIAMS: CUSTOM RGB 201-221-6, SOFT AVACADO
HM FRAMES	
PT-4	PAINT: SHERWIN WILLIAMS: SW 6991, BLACK MAGIC
CEILINGS	
ACT-1	ACOUSTICAL CEILING TILE: ARMSTRONG DUNE SQUARE LAY-IN TILES, 24"X24"X5/8", WHITE; PRELUD XL 15/16" GRID
EXPOSED STRUCTURE	
PT-1	PAINT: SHERWIN WILLIAMS: CUSTOM RGB 187-187-191, LT GREY
COUNTERTOPS/SPLASHES	
NS-1	QUARTZ: VIVA STONE, ARIA WHITE
PL-1	PLASTIC LAMINATE: WILSONART, 4924 ANTIQUE 22, WHITE CARRARA
CABINETS/MILLWORK/SHELVES	
AW-1	ASSORTED WOOD: STAINED AS SELECTED BY OWNER
BH-1	BACKPACK HOOK: GLARO, ALLUMINUM COAT HOOK, H12
PL-2	PLASTIC LAMINATE: WILSONART, VERTICAL GRAIN, ASIAN NIGHT 7949K-18
DOOR	
PL-3	DOOR / PLASTIC LAMINATE: WILSONART, 1595 CASUAL RUSTIC 16, BLACK
RESTROOM STALLS	
STL-1	STAINLESS STEEL - REFER TO SPECS

FINISHES LEGEND

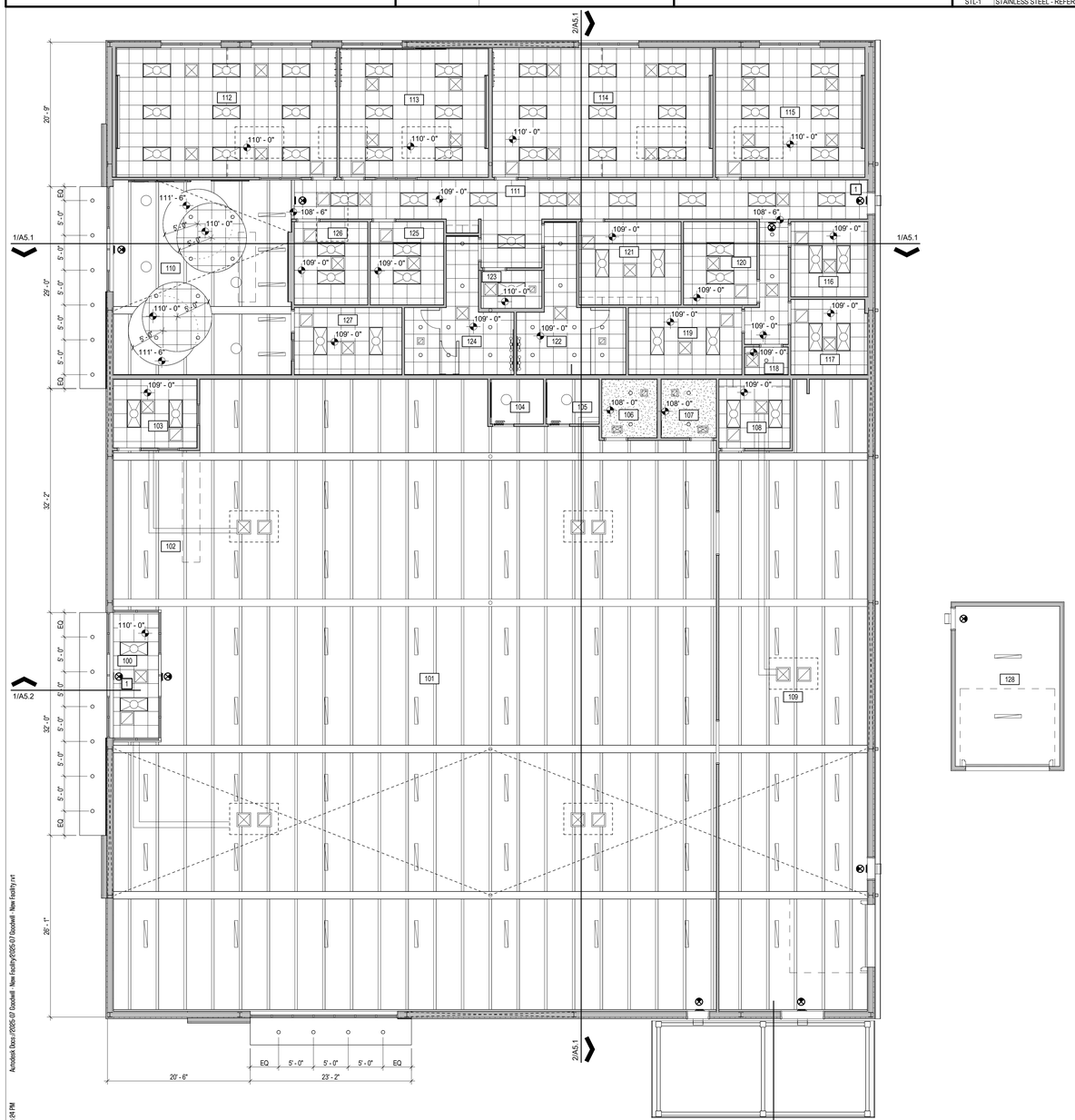
- CERAMIC TILE (CT-1)
- LUXURY VINYL PLANK (LVP-1)
- LUXURY VINYL PLANK (LVP-2)
- SEALED CONCRETE (SC-1)

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	NOTES
100	VESTIBULE	SC-1	-	PT-1	ACT-1	10' - 0"	
101	SALES	SC-1	RB-1	PT-1	PT-1	-	
102	CASHIER	SC-1	RB-1	PT-1	PT-1	-	
103	OFFICE	SC-1	RB-1	PT-1	ACT-1	9' - 0"	
104	D. RM	SC-1	RB-1	PT-1	PT-1	-	
105	D. RM	SC-1	RB-1	PT-1	PT-1	-	
106	TLT.	SC-1	RB-1	FRP-1	PT-2	8' -0"	2
107	TLT.	SC-1	RB-1	FRP-1	PT-2	8' -0"	2
108	BREAK RM	SC-1	RB-1	PT-1	ACT-1	9' - 0"	3
109	PRODUCTION	SC-1	RB-1	PT-1	PT-1	-	3
110	CRC RECEPTION	LVP-1/LVP-2	RB-1	PT-1, PT-3, MT-1	PT-1, PT-3, ACT-1	VARIES	4
111	CORRIDOR	LVP-1/LVP-2	RB-1	PT-1, CT-1	ACT-1	9' - 0"	3
112	CLASSROOM	LVP-1	RB-1	PT-1, *PT-6	ACT-1	10' - 0"	4
113	CLASSROOM	LVP-1	RB-1	PT-1, *PT-5	ACT-1	10' - 0"	4
114	CLASSROOM	LVP-1	RB-1	PT-1, *PT-7	ACT-1	10' - 0"	4
115	BOARD RM.	LVP-1	RB-1	PT-1, *PT-5	ACT-1	10' - 0"	4
116	OFFICE	LVP-1	RB-1	PT-1	ACT-1	9' - 0"	
117	OFFICE	LVP-1	RB-1	PT-1	ACT-1	9' - 0"	
118	I.T.	SC-1	RB-1	PT-1	ACT-1	9' - 0"	1
119	STORAGE	SC-1	RB-1	PT-1	ACT-1	9' - 0"	
120	OFFICE	LVP-1	RB-1	PT-1	ACT-1	9' - 0"	
121	BREAK ROOM	LVP-1	RB-1	PT-1	ACT-1	9' - 0"	3
122	MENS	CT-1	-	CT-2, PT-2	ACT-1	9' - 0"	2
123	JAN.	SC-1	RB-1	FRP-1, PT-1	ACT-1	9' - 0"	2
124	WOMENS	CT-1	-	CT-2, PT-2	ACT-1	9' - 0"	2
125	OFFICE	LVP-1	RB-1	PT-1	ACT-1	9' - 0"	
126	OFFICE	LVP-1	RB-1	PT-1	ACT-1	9' - 0"	
127	OFFICE	LVP-1	RB-1	PT-1	ACT-1	9' - 0"	
128	GARAGE	SC-1	-	-	-	-	

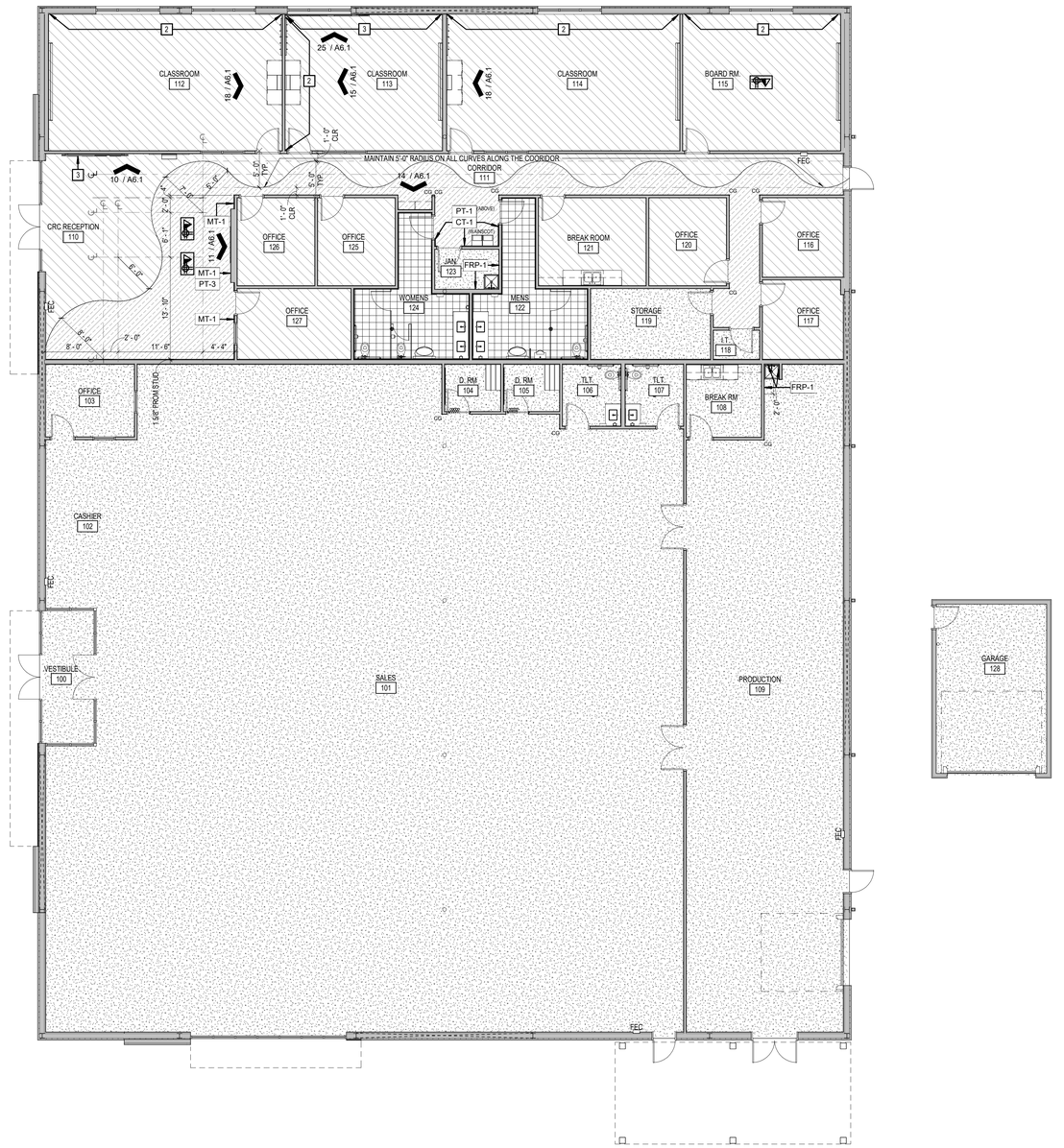
FINISH NOTES

1 PAINTED FIRE TREATED PLYWOOD ON ALL WALLS.
2 WATER RESISTANT GYPSUM BOARD AT ALL WALLS
3 WATER RESISTANT GYPSUM BOARD AT ALL WALLS WITH PLUMBING FIXTURES.
4 SPECIAL WALL FINISHES WHERE NOTED.



2 REFLECTED CEILING PLAN

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



1 FINISH FLOOR PLAN

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

0 2 4 8 16

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REGISTERED ARCHITECT — MICHAEL V. ZIMMERMAN — 24014 — STATE OF TEXAS

08.08.2025

JSA No: 2025-07

RCP & FINISH PLAN

A2.2

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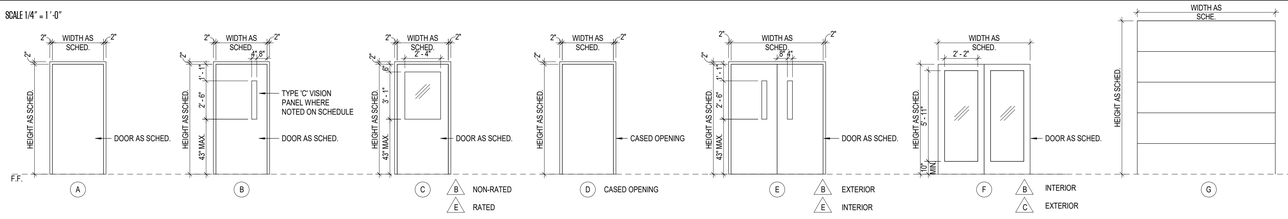
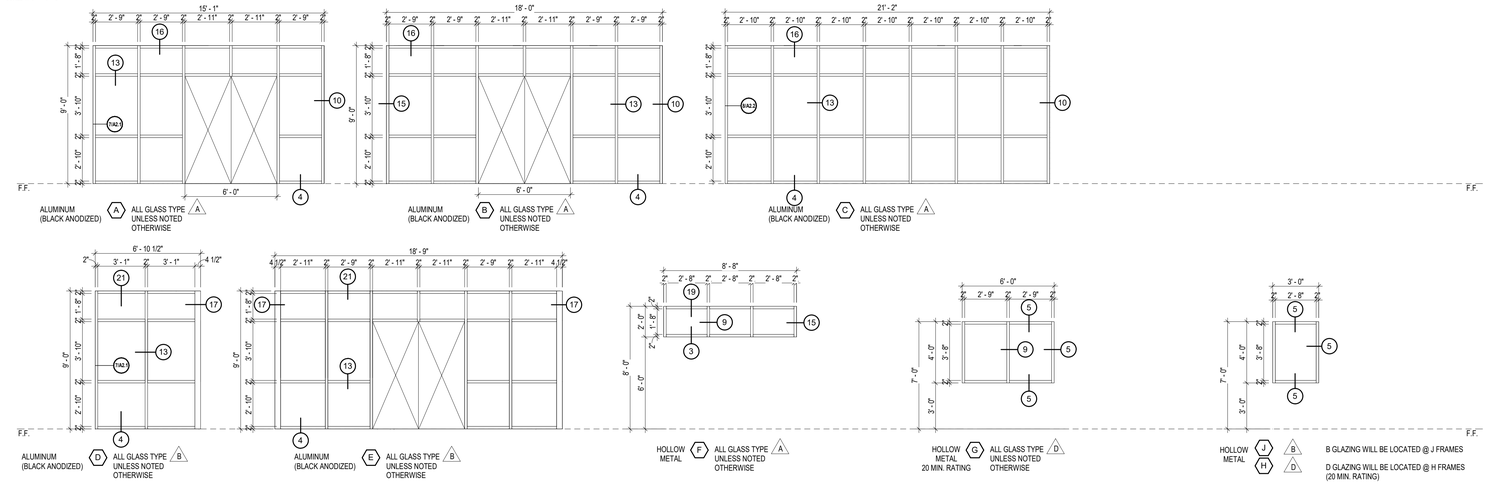
DOOR TYPE ELEVATIONS

SCALE 1/4" = 1'-0"



WINDOW TYPE ELEVATIONS

SCALE 1/4" = 1'-0"



DOOR SCHEDULE

MARK	PAIR	DOOR SIZE (W x H) WIDTH	HEIGHT	FRAME	FIRE RATING	DOOR MATERIAL	DOOR THICKNESS	ELEVATION	HARDWARE	DETAILS HEAD	JAMB	SILL	NOTES
100	•	6' - 0"	7' - 0"	F1		D1	1 3/4"	F	A	7	7	1	INSULATED
101A	•	6' - 0"	7' - 0"	F1		D1	1 3/4"	F	B	7	7	1	
101B		3' - 0"	7' - 0"	F2		D2	1 3/4"	A	D	18	14	2	3, INSULATED
103		3' - 0"	7' - 0"	F2		D3	1 3/4"	C	F	11	11	--	
104		3' - 0"	7' - 0"	--		--	--	--	--	-	--	--	1
105		3' - 0"	7' - 0"	--		--	--	-	-	--	--	--	1
106		3' - 0"	7' - 0"	F2		D3	1 3/4"	A	H	11	11	--	
107		3' - 0"	7' - 0"	F2		D3	1 3/4"	A	H	11	11	--	
108		3' - 0"	7' - 0"	F2		D3	1 3/4"	C	G	11	11	--	
109A	•	6' - 0"	7' - 0"	F2*		D5	1 3/4"	E	--	11 SIM	11 SIM	--	CASED FRAME/NO STOPS; HARDWARE BY DOOR MANUFACTURER AS SPECIFIED
109B	•	6' - 0"	7' - 0"	F2*		D5	1 3/4"	E	--	11 SIM	11 SIM		CASED FRAME/NO STOPS; HARDWARE BY DOOR MANUFACTURER AS SPECIFIED
109C	•	6' - 0"	7' - 0"	F2		D2	1 3/4"	E	E	18	14	2	INSULATED
109D		9' - 0"	10' - 0"	F3		D4	0"	G	-	12	--	6	2, ELECTRIC OPENER, INSULATED
109E		3' - 0"	7' - 0"	F2		D2	1 3/4"	B	C	18	14	2	INSULATED
110	•	6' - 0"	7' - 0"	F1		D1	1 3/4"	F	A	7	7	1	INSULATED
111		3' - 0"	7' - 0"	F2		D2	1 3/4"	B	C	18	14	2	CARD READER, INSULATED
112		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	C	F	11	11		
113		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	C	F	11	11		
114		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	C	F	11	11		
115		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	C	F	11	11		
116		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	C	F	11	11		
117		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	C	F	11	11		
118		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	A	K	11	11		
119		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	A	L	11	11		KEYPAD
120		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	C	F	11	11		
121		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	C	F	11	11		
122		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	A	J	11	11		
123		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	A	F	11	11		
124		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	A	J	11	11		
125		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	C	F	11	11		
126		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	C	F	11	11		
127		3' - 0"	7' - 0"	F2	20 MIN.	D3	1 3/4"	C	F	11	11		
128		3' - 0"	7' - 0"	F2		D2	1 3/4"	A	D	8	8 SIM	2	
129		12' - 0"	10' - 0"	F3		D4	1 3/4"	G	--	20	--	6	2, ELECTRIC OPENER

DOOR FINISHES

FRAME MATERIALS

F1	ALUMINUM STOREFRONT SYSTEM (BLACK ANODIZED)
F2	HOLLOW METAL
F3	STEEL GUIDE

DOOR MATERIALS

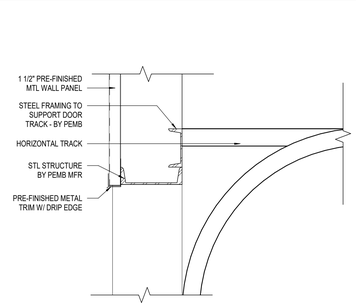
D1	ALUMINUM STOREFRONT SYSTEM (BLACK ANODIZED)
D2	HOLLOW METAL
D3	SOLID CORE WOOD (P-LAM FINISH)
D4	OVERHEAD SECTIONAL
D5	ACROVYN

DOOR NOTES

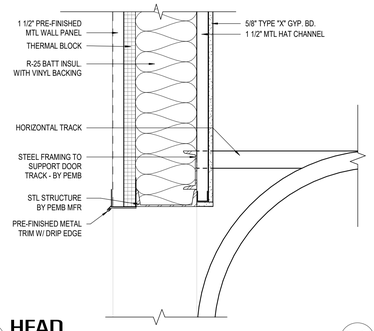
1. DOOR, HARDWARE, AND FRAME PROVIDED BY OWNER, COORDINATE OPENING WITH OWNER. PROVIDE TEMPORARY CURTAIN AS REQUIRED.
2. COLOR TO MATCH MP-2
3 PROVIDE SIGNAGE AT DOOR: "EMERGENCY EXIT-ALARM WILL SOUND."

GLAZING SCHEDULE

MARK	GLASS TYPE	OVERALL UNIT THICKNESS	THICKNESS EACH LITE	OUTDOOR LITE	OUTDOOR LITE COATING	INTERSPACE CONTENT	INDOOR LITE	WINTER U-FACTOR	SUMMER U-FACTOR	SHGC	VISIBLE LIGHT TRANSMITTANCE	NOTES
A	TINTED INSULATING GLASS	1"	6.0 MM	PPG SOLARBAN 67	PPG SOLARGRAY ON 2ND SURFACE	AIR	CLEAR FLOAT GLASS	.29	.27	.22	32%	FULLY TEMPERED GLASS LITES WITH SAFETY GLAZING LABELING IN LOCATION REQUIRED BY CODE
B	1/4" GLASS, CLEAR	1/4"	6.0 MM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	FULLY TEMPERED GLASS LITES WITH SAFETY GLAZING LABELING IN LOCATION REQUIRED BY CODE
C	1/4" GLASS, TINTED	1/4"	6.0 MM	N/A	N/A	N/A	GREY	N/A	N/A	N/A	N/A	FULLY TEMPERED GLASS LITES WITH SAFETY GLAZING LABELING IN LOCATION REQUIRED BY CODE
D	1/4" FIRE RATED GLASS, CLEAR	1/4"	6.0 MM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TGP FIRE LITE PLUS STANDARD GRADE - WWW.FIREGLASS.COM
E	1/4" CLEAR POLYCARBONATE	1/4"	6.0 MM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	



20 HEAD
SCALE: 1 1/2" = 1'-0"



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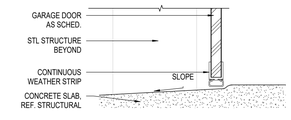

6 GARAGE SILL
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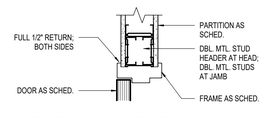
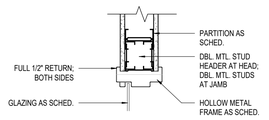


11 HEAD / JAMB SIM.
SCALE: 1 1/2" = 1'-0"



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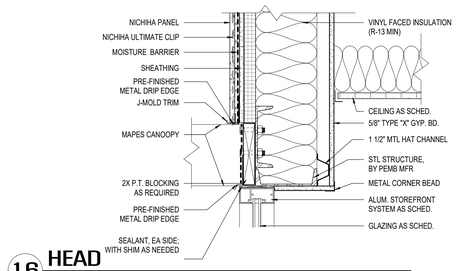
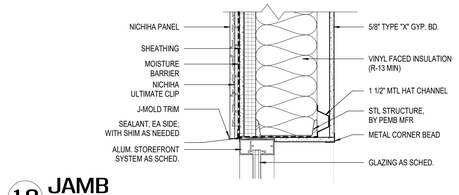
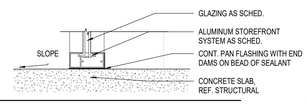


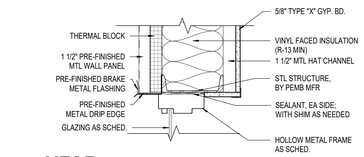
16 HEAD
SCALE: 1 1/2" = 1'-0"



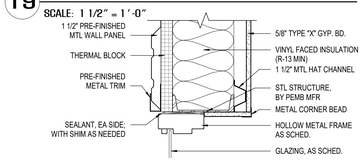
10 JAMB
SCALE: 1 1/2" = 1'-0"



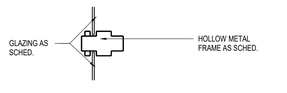
4 SILL1
SCALE: 1 1/2" = 1'-0"



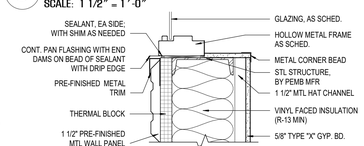
19 HEAD
SCALE: 1 1/2" = 1'-0"



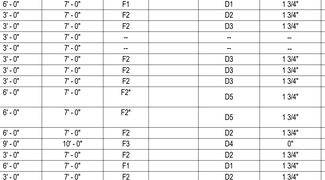
15 JAMB
SCALE: 1 1/2" = 1'-0"



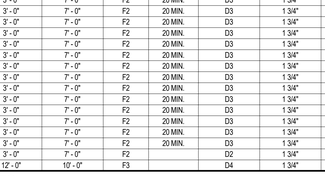
9 INTERMEDIATE MULL
SCALE: 1 1/2" = 1'-0"



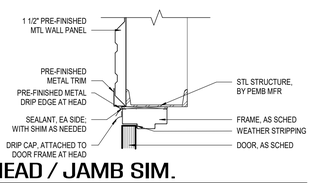
3 SILL
SCALE: 1 1/2" = 1'-0"



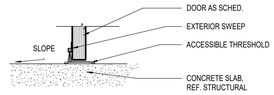
18 HEAD
SCALE: 1 1/2" = 1'-0"



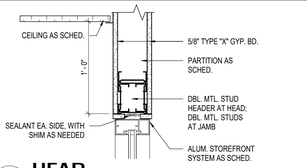
14 JAMB
SCALE: 1 1/2" = 1'-0"



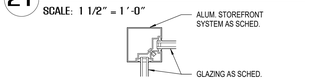
8 HEAD / JAMB SIM.
SCALE: 1 1/2" = 1'-0"



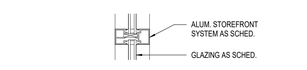
2 SILL
SCALE: 1 1/2" = 1'-0"



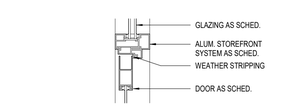
21 HEAD
SCALE: 1 1/2" = 1'-0"



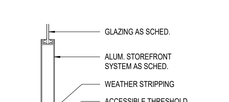
17 CORNER JAMB
SCALE: 1 1/2" = 1'-0"



13 INTERMEDIATE MULL
SCALE: 1 1/2" = 1'-0"



7 HEAD / JAM
SCALE: 1 1/2" = 1'-0"



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

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GOODWILL INDUSTRIES OF NORTHWEST TEXAS

NEW RETAIL & CAREER RESOURCE CENTER

512 N MLK JR. BLVD LUBBOCK. TX 79403

Goodwill Industries of Northwest Texas
"The only disability is a bad attitude"

Issue / Revisions:

No.	Date	Description
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REGISTERED ARCHITECT — DANIEL J. ZIMMERMAN — 24048 — STATE OF TEXAS

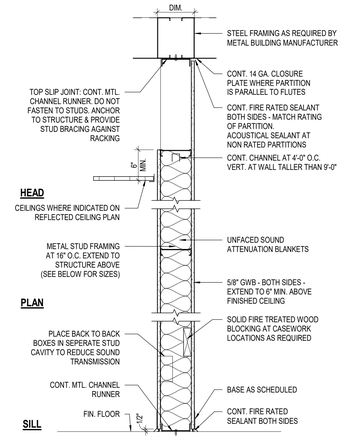
08.08.2025

JSA No: 2025-07

DOOR & WINDOW - SCHEDULES & ELEVATIONS

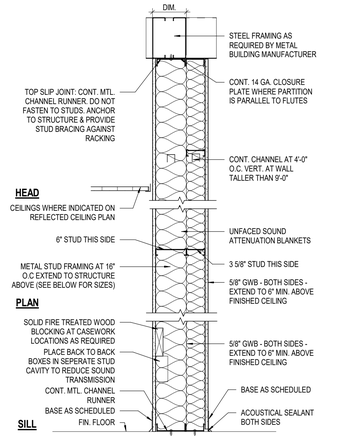
A3.1

8/8/2025 8:46:28 PM Autodesk Docs://2025-07 Goodwill - New Facility/2025-07 Goodwill - New Facility.rvt



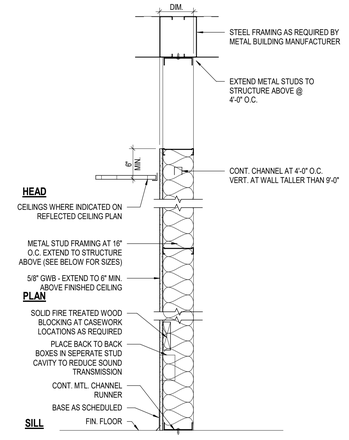
TYPE	DESCRIPTION	STUD SIZE	RATING	STC	TEST NO.	DIMENSION
H1	CEILING HT. PER RCP	3 5/8"	NR	49	---	4 7/8"

PARTITION TYPE H



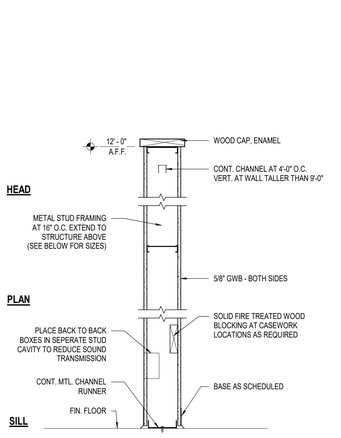
TYPE	DESCRIPTION	STUD SIZE	RATING	STC	TEST NO.	DIMENSION
G1	FULL HT. GWB - 1 SIDE	6" + 3 5/8"	NR	49	---	6 5/8"

PARTITION TYPE G



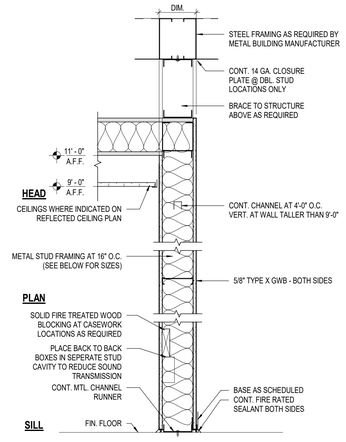
TYPE	DESCRIPTION	STUD SIZE	RATING	STC	TEST NO.	DIMENSION
F1	CEILING HT. PER RCP	3 5/8"	NR	49	---	4 1/4"

PARTITION TYPE F



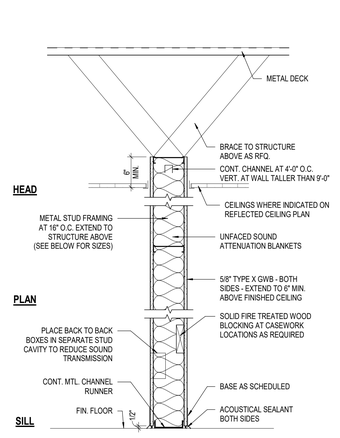
TYPE	DESCRIPTION	STUD SIZE	RATING	STC	TEST NO.	DIMENSION
E1	CEILING HT. PER RCP	3 5/8"	NR	49	---	4 7/8"

PARTITION TYPE E



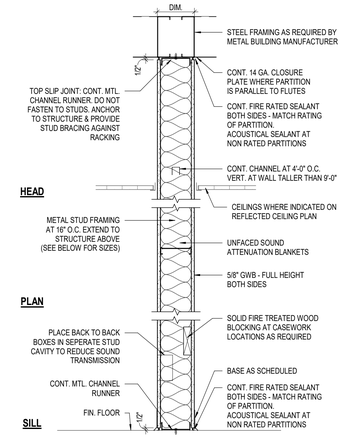
TYPE	DESCRIPTION	STUD SIZE	RATING	STC	TEST NO.	DIMENSION
D1	CEILING HT. PER RCP	3 5/8"	1 HR	49	U419	+/- 5 1/8"

PARTITION TYPE D



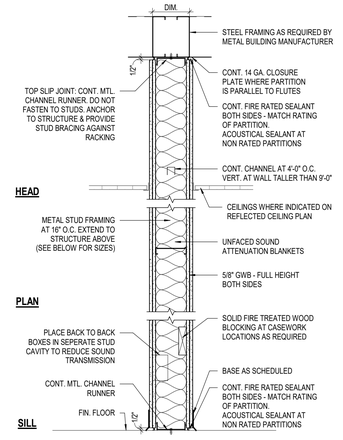
TYPE	DESCRIPTION	STUD SIZE	RATING	STC	TEST NO.	DIMENSION
C1	CEILING HT. PER RCP	3 5/8"	NR	49	---	4 7/8"
C2	CEILING HT. PER RCP	6"	NR	49	---	7 1/4"

PARTITION TYPE C



TYPE	DESCRIPTION	STUD SIZE	RATING	STC	TEST NO.	DIMENSION
B1	FULL HT. GWB	3 5/8"	NR	49	---	4 7/8"
B2	FULL HT. GWB	3 5/8"	1 HR	49	U419	4 7/8"
B3	FULL HT. GWB	6"	NR	49	---	7 1/4"

PARTITION TYPE B



TYPE	DESCRIPTION	STUD SIZE	RATING	STC	TEST NO.	DIMENSION
A1	FULL HT. GWB	6"	2 HR	49	U419	8 1/2"

PARTITION TYPE A

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GOODWILL INDUSTRIES OF NORTHWEST TEXAS

NEW RETAIL & CAREER RESOURCE CENTER

512 N MLK JR. BLVD LUBBOCK.
TX 79403

Goodwill Industries of Northwest Texas
"The only disability is a bad attitude"

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REGISTERED ARCHITECT — MICHAEL J. SIMMONS — 24048 — STATE OF TEXAS

08.08.2025

JSA No: 2025-07

PARTITION TYPES

A3.2

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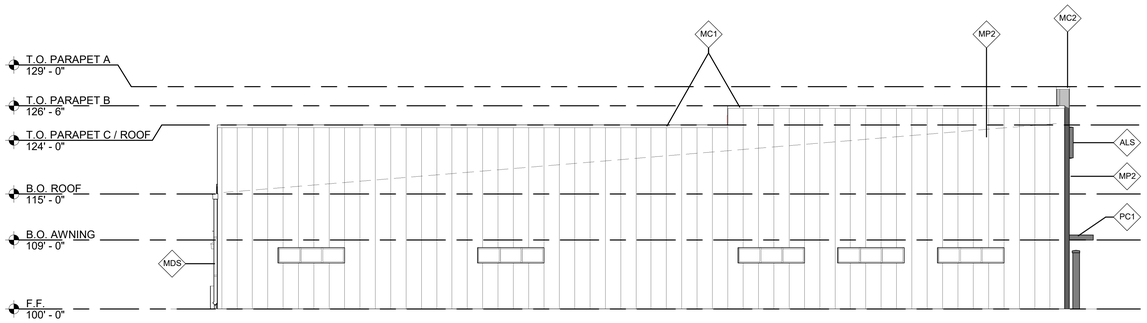
ELEVATION MATERIAL LEGEND

PC1	PRE-ENGINEERED CANOPY (MAPES: CANTILEVER, FLAT SOFFIT; BLACK)	WP1	NICHIHA PANELS (NICHIHA: DIMENSION SERIES, RIBBED; FACTORY INDIGO)
S1	SIGNAGE UNDER SEPERATE CONTRACT	WP2	NICHIHA PANELS (NICHIHA: DIMENSION SERIES, RIBBED; CUSTOM ORANGE)
MDS	PRE-FINISHED MTL GUTTER & DOWNSPOUT (MBCI: ASH GRAY)	SC	SPLITFACE CMU (ACME: FEATHERLITE - MOCHA)
MC1	PRE-FINISHED METAL COPING (MBCI: COBALT BLUE)	DB	DONOR BRICKS (VARIOUS SIZES - ACME: ENGRAVED PAVERS - IVORY)
MC2	PRE-FINISHED METAL COPING (MBCI: TRUE BLACK)	FB	FACE BRICK - ACME: AMARETTO - MODULAR - VELOUR
MR1	METAL STANDING SEAM ROOF PANELS (MBCI: DOUBLE-LOK; POLAR WHITE)	BP	BOLLARD PAINT (SHERWIN WILLIAMS: ROCK BOTTOM 7062)
MR2	METAL STANDING SEAM ROOF PANELS (MBCI: PBR; TRUE BLACK; WITH LAP SEALANT)	FP	EXTERIOR DOOR & WINDOW FRAME PAINT (SHERWIN WILLIAMS: ROCK BOTTOM 7062)
MP1	METAL COMPOSITE WALL PANELS (MBCI: PBR; COBALT BLUE)	CP	CANOPY STRUCTURE PAINT (SHERWIN WILLIAMS: ROCK BOTTOM 7062)
MP2	METAL COMPOSITE WALL PANELS (MBCI: PBR; ASH GRAY)	GP	TRASH ENCLOSURE GATE PAINT (SHERWIN WILLIAMS: ROCK BOTTOM 7062)
MF	METAL FASCIA PANELS (MBCI: TRUE BLACK)	WS	TRASH ENCLOSURE WOOD FENCE & STAIN(SHERWIN WILLIAMS: SW3503-WHITE BIRCH)
FL	FLASHING (BLACK)	CB	CLEARANCE BAR; AT BOTH SIDES OF CANOPY
CC	CAST-IN-PLACE CONCRETE		



7 NORTH ELEVATION
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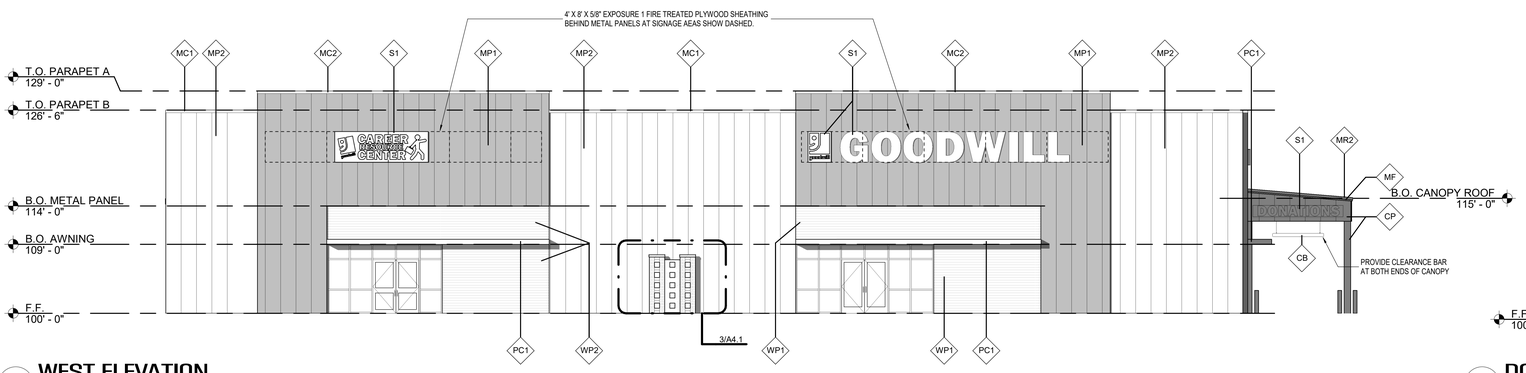
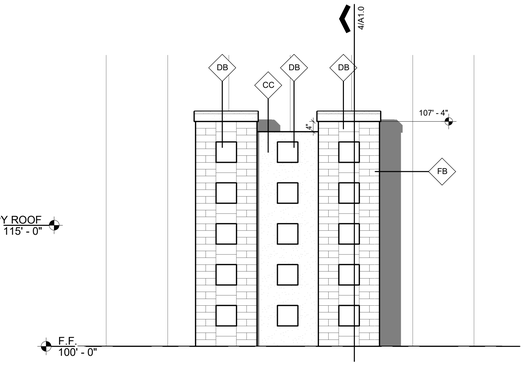
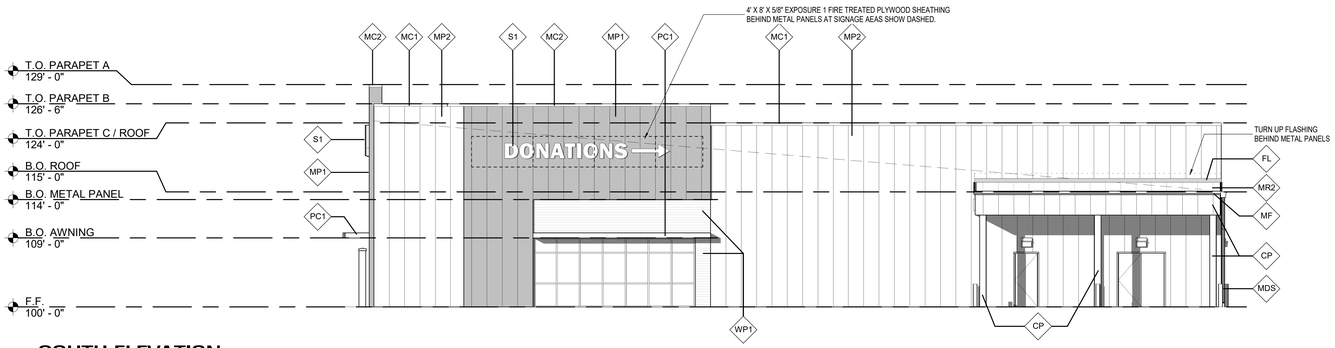


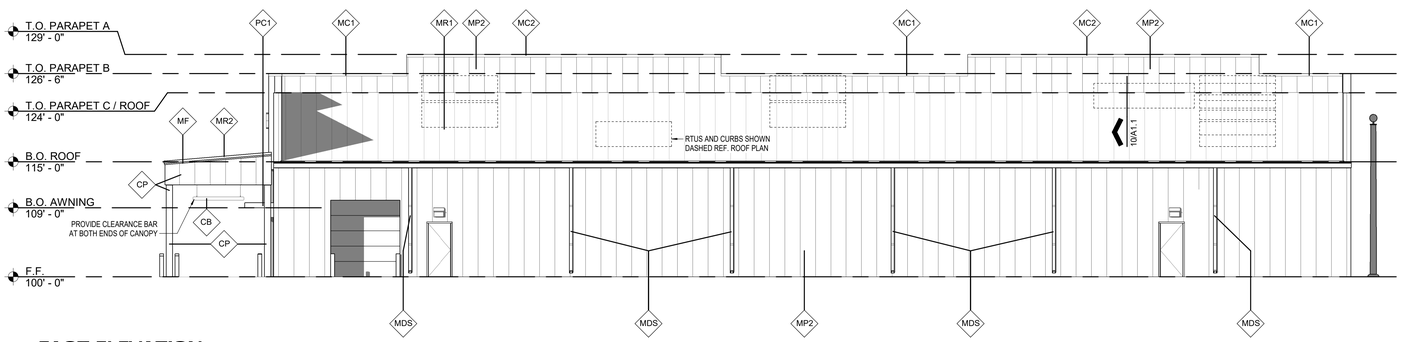
6 WEST ELEVATION
SCALE: 1/8" = 1'-0"



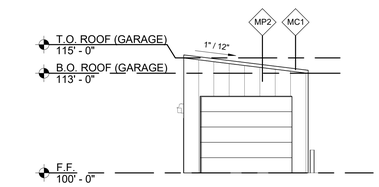
3 DONOR WALL
SCALE: 1/2" = 1'-0"



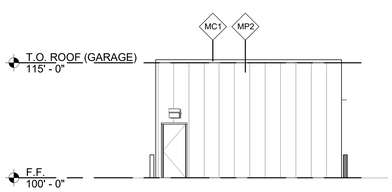
5 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



4 EAST ELEVATION
SCALE: 1/8" = 1'-0"



2 GARAGE - SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



1 GARAGE - WEST ELEVATION
SCALE: 1/8" = 1'-0"

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REGISTERED ARCHITECT MICHAEL J. ZIMMERMAN 24049 STATE OF TEXAS

08.08.2025

JSA No: 2025-07

EXTERIOR ELEVATIONS

A4.1

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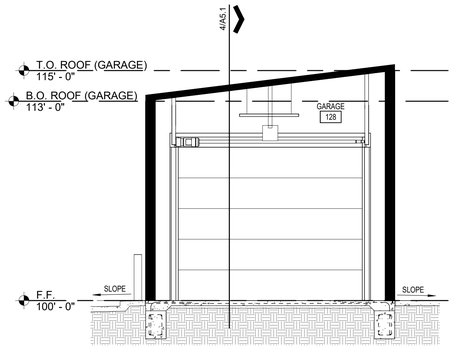
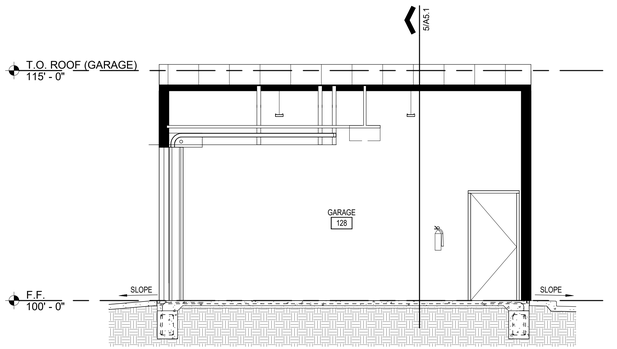


5 GARAGE SECTION E/W

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



4 GARAGE SECTION N/S

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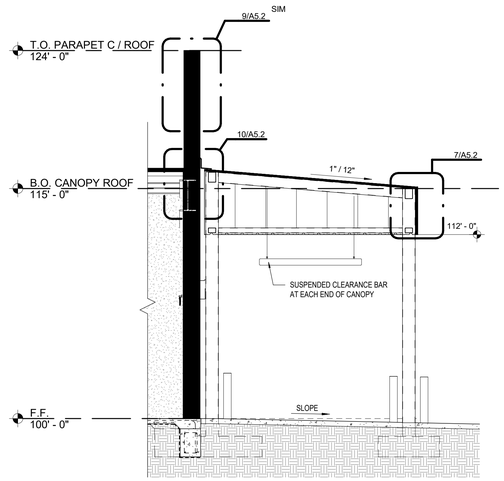

3 DROP OFF CANOPY SECTION N/S

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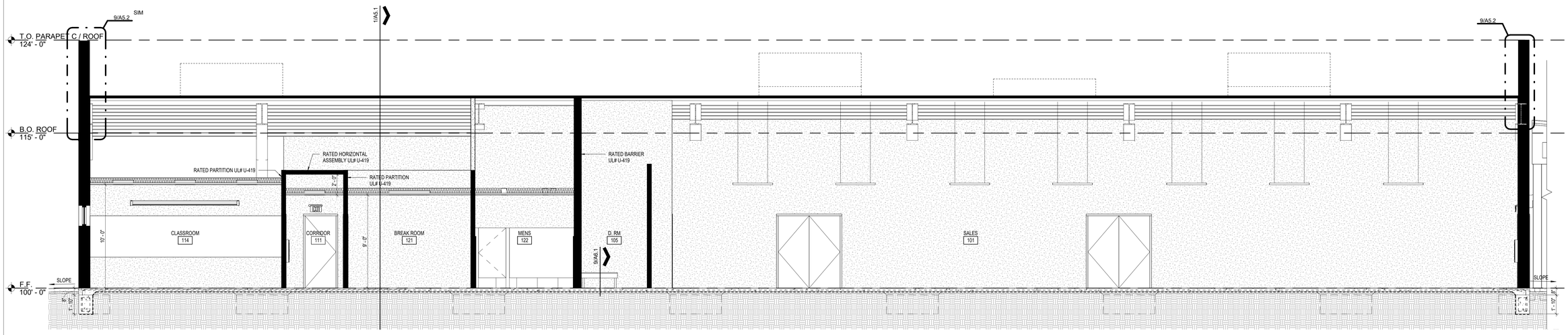

2 BUILDING SECTION N/S

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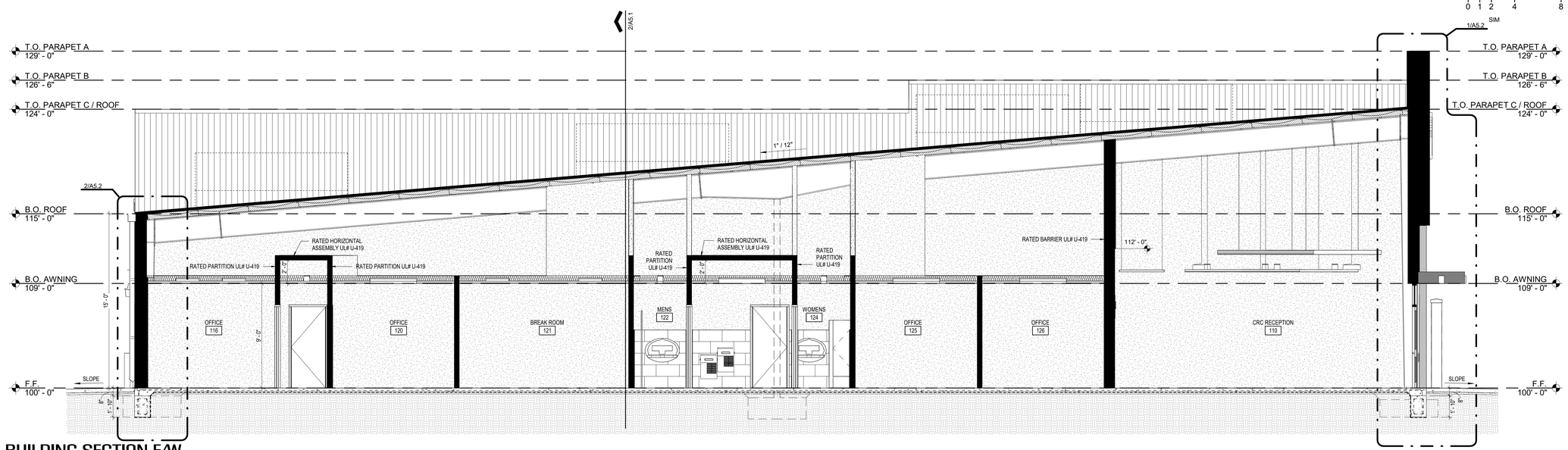

1 BUILDING SECTION E/W

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

jsa
architects
1312 Ave Q.
Lubbock,Tx 79401
806-370-4550
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GOODWILL INDUSTRIES OF NORTHWEST TEXAS

NEW RETAIL & CAREER RESOURCE CENTER

512 N MLK JR. BLVD LUBBOCK,
TX 79403

Goodwill Industries of Northwest Texas

Issue / Revisions:

No	Date	Description
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8		
9		

REGISTERED ARCHITECT
MICHAEL J. ZIMMERMAN
STATE OF TEXAS

08.08.2025

JSA No. 2025-07

BUILDING SECTIONS

A5.1

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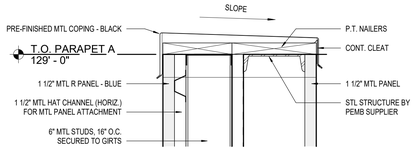

11 ENLARGED DETAIL

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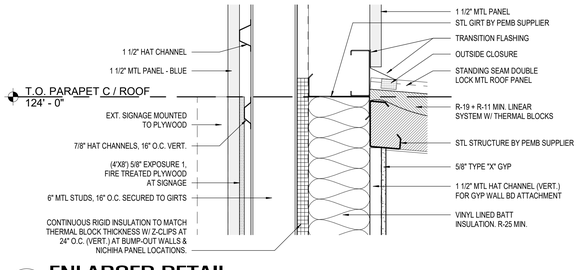

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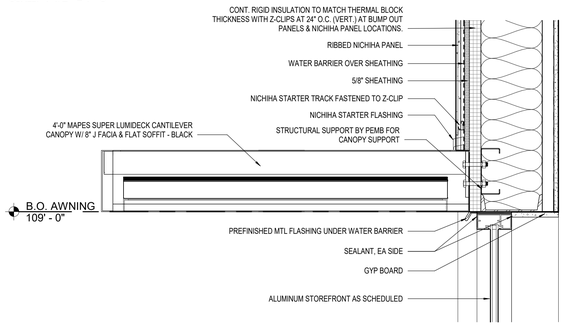

6 ENLARGED DETAIL

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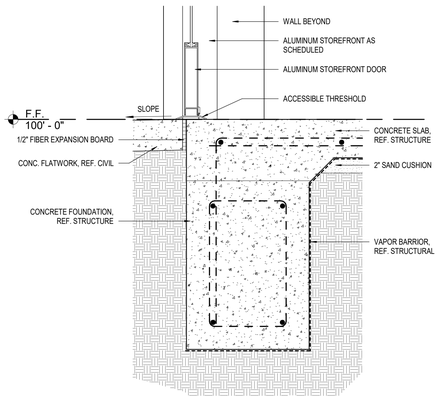

4 BASE DETAIL

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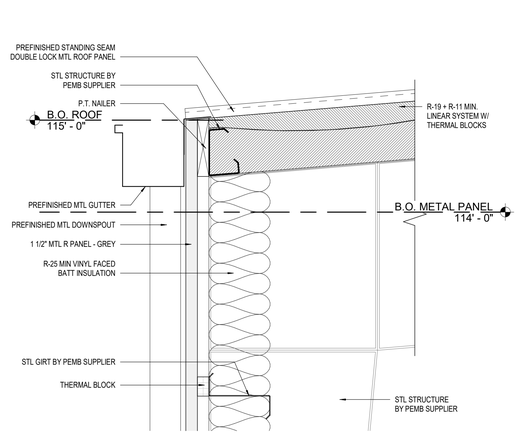

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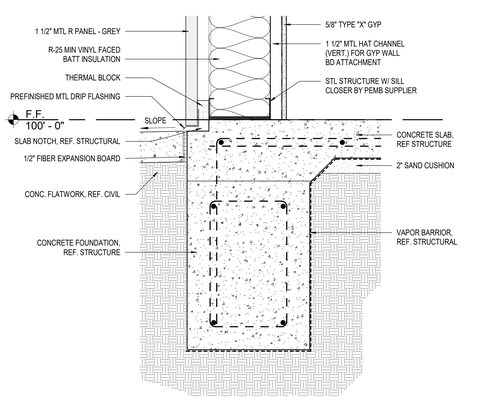

3 BASE DETAIL

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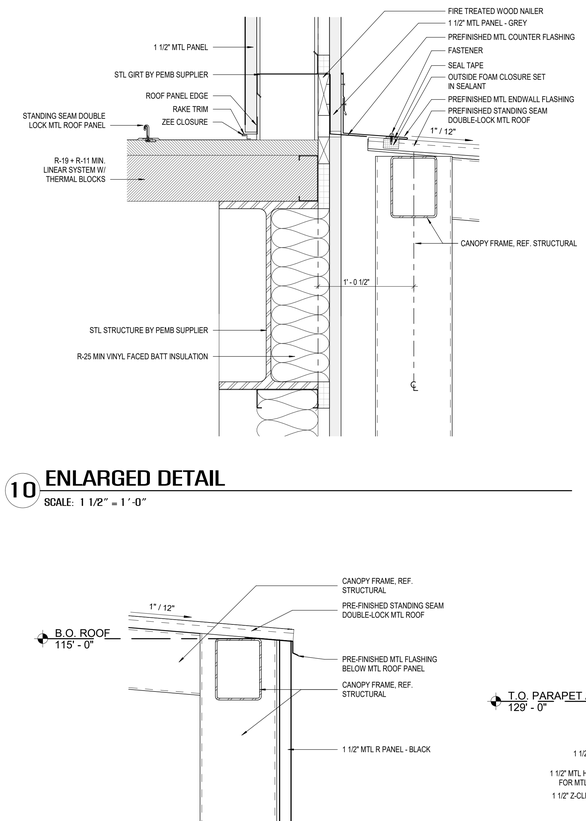

10 ENLARGED DETAIL

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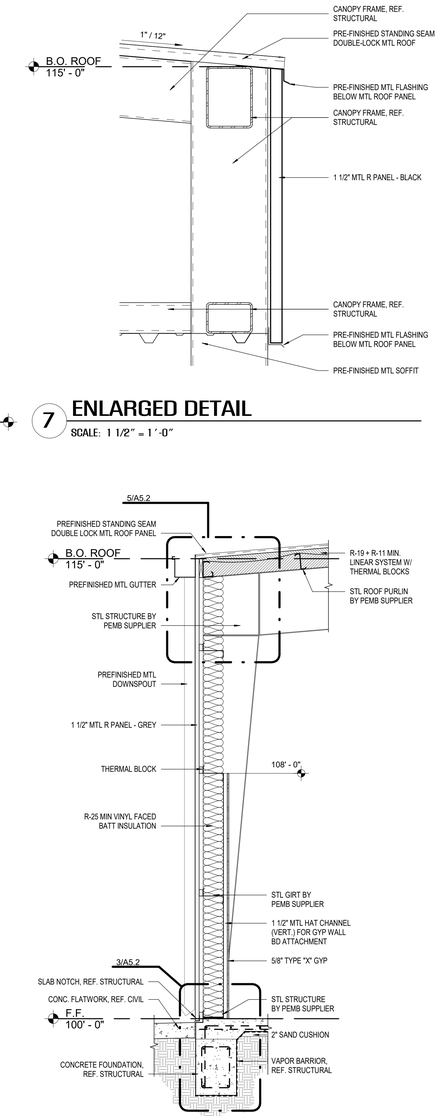
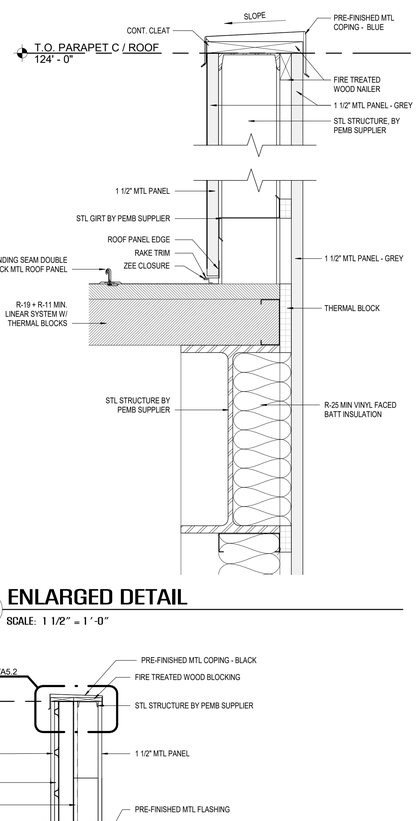


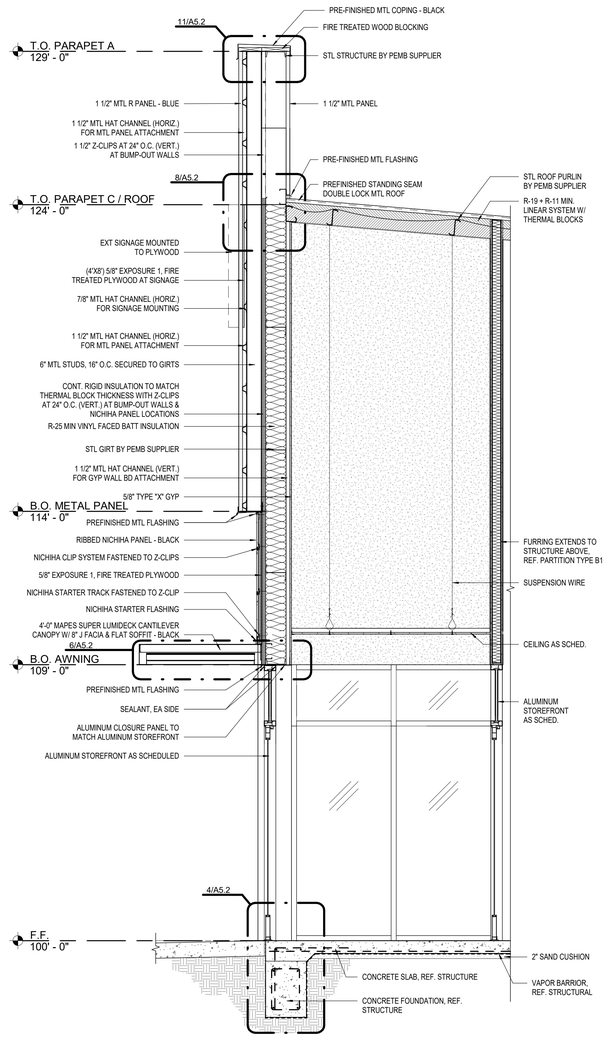
2 WALL SECTION

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



9 ENLARGED DETAIL

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



1 WALL SECTION

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

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GOODWILL INDUSTRIES OF NORTHWEST TEXAS

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Goodwill Industries of Northwest Texas

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08.08.2025

JSA No: 2025-07

WALL SECTIONS & DETAILS

A5.2

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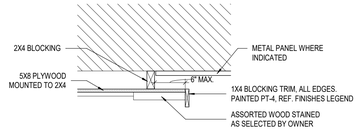

26 CLASSROOM 113 WALL DETAIL
SCALE: 1" = 1'-0"

25 CLASSROOM 113 ACCENT WALL
SCALE: 1/4" = 1'-0"

MILLWORK NOTES

A. ALL CABINET CONSTRUCTION TO BE PLASTIC LAMINATE CONSTRUCTION UNLESS NOTED OTHERWISE.

B. SEE PLAN FOR LOCATION AND QUANTITY OF ALL UNITS.

C. FIELD VERIFY ALL DIMENSIONS.

D. REFER TO SHEET G1.0 FOR ACCESSIBILITY NOTES.

MILLWORK LEGEND

GRAPHIC SYMBOL INDICATES DIRECTION OF VIEW ON PLAN SHEET.

PL-X GRAPHIC SYMBOL INDICATES MILLWORK FINISH

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1312 Ave Q.
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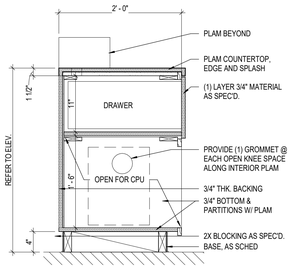
30 NOT USED
SCALE: 12" = 1'-0"

29 NOT USED
SCALE: 12" = 1'-0"

28 NOT USED
SCALE: 12" = 1'-0"



23 MILLWORK SECTION
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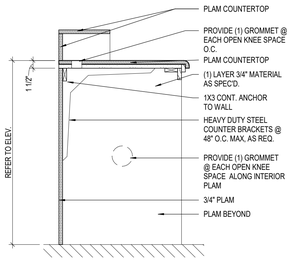

22 MILLWORK SECTION
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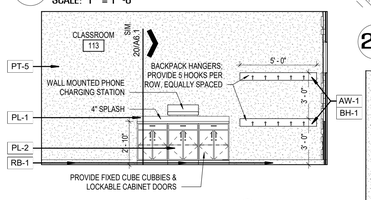
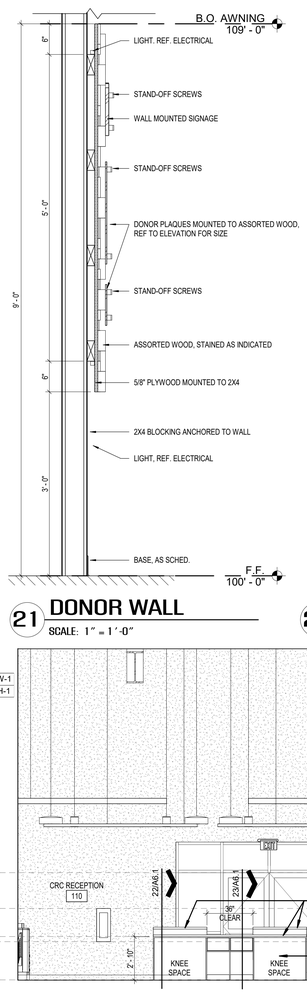
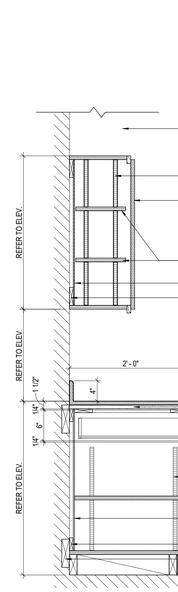


15 113 CLASSROOM
SCALE: 1/4" = 1'-0"



21 DONOR WALL
SCALE: 1" = 1'-0"



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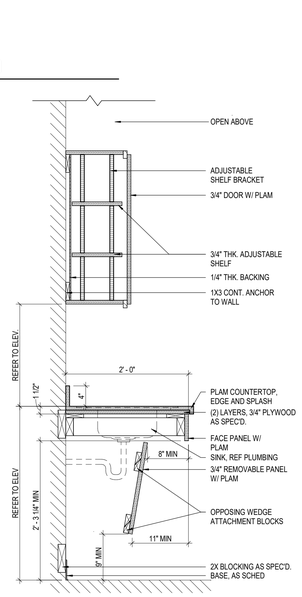
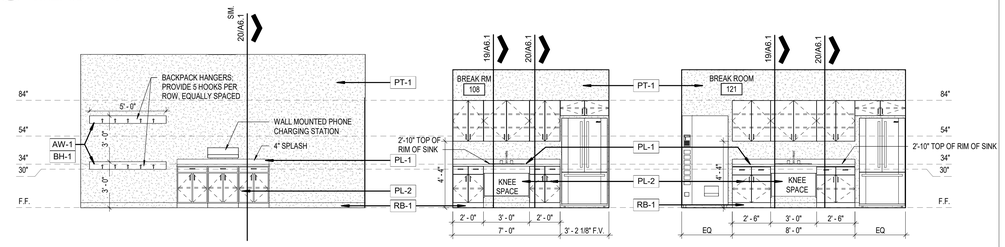


19 MILLWORK SECTION
SCALE: 1" = 1'-0"

27 NOT USED
SCALE: 12" = 1'-0"

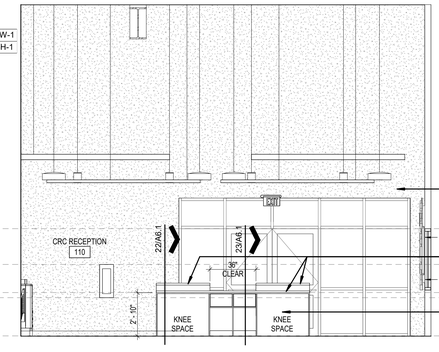
24 NOT USED
SCALE: 1/2" = 1'-0"

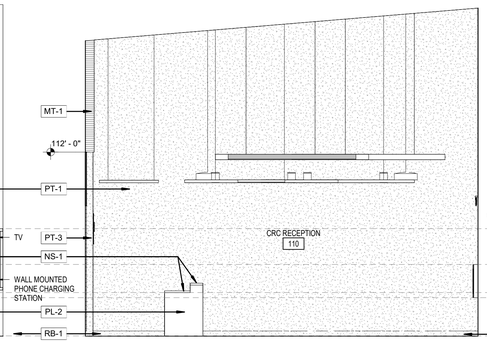


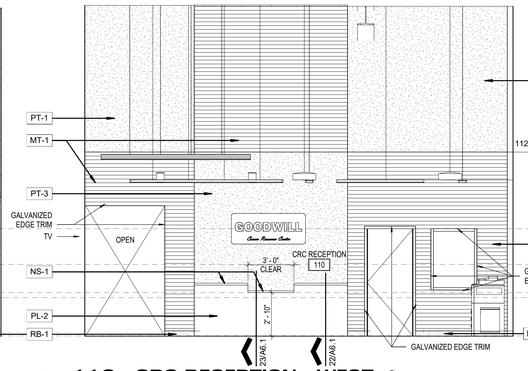
18 TYP. CLASSROOM
SCALE: 1/4" = 1'-0"

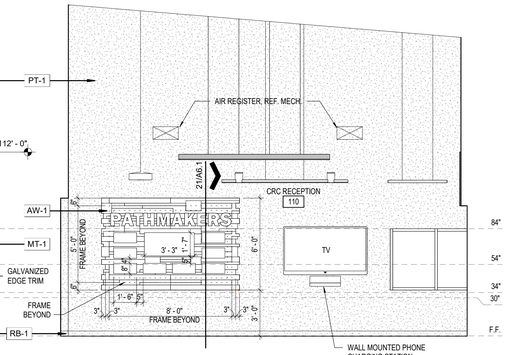
17 RETAIL BREAK ROOM
SCALE: 1/4" = 1'-0"

16 CRC BREAKROOM
SCALE: 1/4" = 1'-0"









14 111 - COPIER
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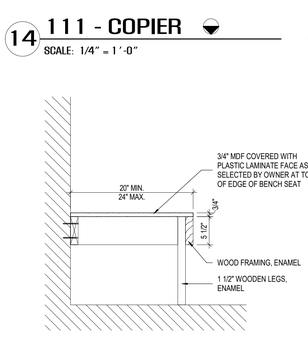


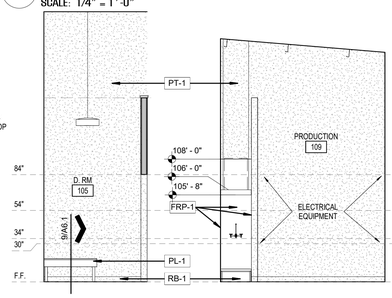
13 110 - CRC RECEPTION - EAST
SCALE: 1/4" = 1'-0"

12 110 - CRC RECEPTION - SOUTH
SCALE: 1/4" = 1'-0"

11 110 - CRC RECEPTION - WEST
SCALE: 1/4" = 1'-0"

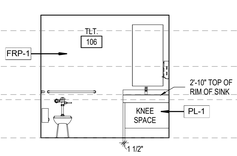
10 110 - CRC RECEPTION - NORTH
SCALE: 1/4" = 1'-0"

9 TYP. BENCH DETAIL
SCALE: 1" = 1'-0"



8 D. RM
SCALE: 1/4" = 1'-0"

7 109 - PRODUCTION
SCALE: 1/4" = 1'-0"



6 106 & 107 - TLT
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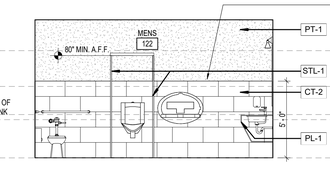

5 122 - MENS
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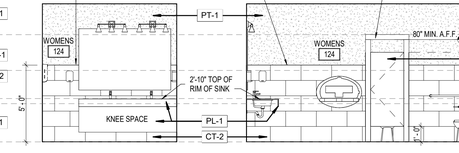

4 CRC LAVATORY
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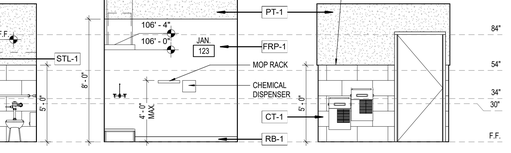
3 124 - WOMENS
SCALE: 1/4" = 1'-0"



2 123 - JAN
SCALE: 1/4" = 1'-0"

1 WATER FOUNTAIN
SCALE: 1/4" = 1'-0"

0 1 2 4 8

GOODWILL INDUSTRIES OF NORTHWEST TEXAS

NEW RETAIL & CAREER RESOURCE CENTER

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Goodwill Industries of Northwest Texas
"We serve anywhere in a good direction."

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STATE OF TEXAS — REGISTERED ARCHITECT — MICHAEL S. ZIMMERMAN — 24404

08.08.2025

JSA No: 2025-07

INTERIOR ELEVATIONS & MILLWORK

A6.1

8/12/2025 10:38:50 AM Autodesk Docs://2025-07 Rockett New Facility/2025-07 Rockett New Facility.rvt

GENERAL STRUCTURAL NOTES

APPLY UNLESS NOTED ON STRUCTURAL DRAWINGS
IN CASE OF CONFLICT BETWEEN GSN, DETAILS AND
PLANS, THE GREATER REQUIREMENTS GOVERN.

GENERAL

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE, INCLUDING AMENDMENTS, EXCEPT WHERE APPLICABLE CODES OR THE CONTRACT DOCUMENTS ARE MORE RESTRICTIVE.
2. THE SPECIFICATIONS AND REQUIREMENTS INDICATED ON THIS SHEET ARE INTENDED AS A BASIC SUMMARY OF THE MATERIAL, CONSTRUCTION AND INSPECTION REQUIREMENTS FOR THE PROJECT. ADDITIONAL, ARE GIVEN IN THE PROJECT SPECIFICATIONS. IN THE EVENT OF CONFLICT BETWEEN THE REQUIREMENTS INDICATED ON THIS SHEET AND THOSE IN THE PROJECT SPECIFICATIONS, THE MORE STRINGENT WILL GOVERN.
3. FOR LOCATIONS AND DIMENSIONS OF SLEEVES, CURB, OPENINGS AND DEPRESSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE ARCHITECTURAL, CIVIL, MECHANICAL DRAWINGS. CONTRACTOR SHALL VERIFY AND COORDINATE REQUIREMENT FOR AND LOCATION OF ABOVE ITEMS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT.
4. EMBEDDED ITEMS, SUCH AS PIPE SLEEVES, CONDUITS AND INSERTS SHALL BE IN PLACE BEFORE CONCRETE IS POURED. SEE ARCHITECTURAL, CIVIL, MECHANICAL DRAWINGS FOR ITEMS REQUIRING SLEEVES AND EMBEDMENTS IN CONCRETE WHICH ARE NOT SHOWN IN THE STRUCTURAL DRAWINGS.
5. ALL STRUCTURAL RELATED SHOP DRAWINGS SHALL BE SUBMITTED, REVIEWED & APPROVED BY THE ENGINEER OF RECORD PRIOR TO ERECTION/CONSTRUCTION.
6. STRUCTURAL DIMENSIONS AND OPENINGS CONTROLLED BY OR RELATED TO MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. STRUCTURAL DIMENSIONS RELATED TO OR CONTROLLED BY EXISTING STRUCTURES SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION WORK.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS, INCLUDING LOCATION AND DIMENSIONS OF ALL EXISTING CONSTRUCTION AND UTILITIES. CONTRACTOR SHALL NOTIFY ENGINEER IF THERE ARE CONFLICTS BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONSTRUCTION BEFORE PROCEEDING WITH WORK.
8. THE STRUCTURES ARE DESIGNED FOR STABILITY IN THE FINAL CONDITION ONLY. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED FOR STABILITY DURING CONSTRUCTION.
9. THE GENERAL NOTES AND TYPICAL DETAILS ARE GENERAL AND APPLY THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY.

LOADING CRITERIA

1. **SUPERIMPOSED DEAD LOAD**
   A. ROOF (COLLATERAL).....5 PSF
2. **LIVE LOADS**
   A. ROOF (NOT REDUCED).....20 PSF (NON-REDUCIBLE)
3. **LATERAL LOADS**

   A. WIND LOADS
   - BASIC WIND SPEED: .....107 MPH
   - RISK CATEGORY: II
   - EXPOSURE: C

   B. SEISMIC LOAD
   - IMPORTANCE FACTOR: 1.0
   - RISK CATEGORY: II
   - SITE CLASS: .....D
   - SPECTRAL RESPONSE COEFFICIENTS..... Sds = 0.083 Sd1 = 0.052
   - SEISMIC DESIGN CATEGORY: .....A

4. **SNOW LOAD:**
   - GROUND SNOW LOAD: (PG):.....15 PSF
   - IMPORTANCE FACTOR: (IS): 1.0
   - THERMAL FACTOR: (CI):.....1.0
5. **BUILDING DEFLECTION LIMITS:**
   - ROOF PURLINS (LIVE).....L/180
   - RIGID FRAME (HORIZ).....H/100
   - RIGID FRAME (VERT).....L/200
   - WALL GIRTS.....L/120

SOIL AND FOUNDATION

1. SOIL REPORT BY: TERRACON CONSULTANTS, INC.
   PROJECT NO. AR255064
   DATED 03/21/2025
2. THE DESIGN OF THE FOUNDATION IS BASED UPON THE RECOMMENDATIONS MADE IN THE REFERENCED GEOTECHNICAL REPORT. FOR THE FOUNDATION TO PERFORM AS INTENDED, IT IS IMPERATIVE THAT THE CONTRACTOR PREPARE THE SUNGRADE PER THE REFERENCED GEOTECHNICAL REPORT. THE CONTRACTOR'S BID SHALL INCLUDE ALL WORK RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT. IF THE CONTRACTOR HAS ANY QUESTIONS ABOUT THE WORK REQUIRED, PLEASE CONTACT THE ARCHITECT.
3. TO FACILITATE SCHEDULING, AT LEAST 48 HOURS ADVANCE NOTICE SHALL BE GIVEN PRIOR TO THE REQUIRED INSPECTIONS.
4. THE FOLLOWING NET ALLOWABLE BEARING PRESSURES WERE UTILIZED IN THE DESIGN OF THE FOUNDATIONS.

   SHALLOW FOUNDATIONS (2.0 FT TO 3.0 FT BELOW FINISH GRADE) ..... 3,000 PSF

CAST-IN-PLACE CONCRETE

1. CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF ACI 301 AND ACI 318
2. PROVIDE CONCRETE (WITH TYPE I-II CEMENT) HAVING THE FOLLOWING GENERAL CHARACTERISTICS:

CLASS	28-DAY STRENGTH (PSI)	SLUMP RANGE (IN)	MAX AGGREGATE SIZE (IN)	W/C RATIO	USAGE
A	4,000	4-6	1"	0.60 MAX	FOOTINGS, GRADE BEAMS AND SLAB ON GRADE
B	3,000	5-8	1"	0.62 MAX	ELECTRICAL ENCASEMENT, PIPE ENCASEMENT, MISC. NON SCHEDULED CONCRETE WORK.
C	4,000 (5% +/- 1% AIR)	3-5	1"	0.50 MAX	EXTERIOR STRUCTURAL CONCRETE

NOTE: THE READY MIX-CONCRETE SHOULD ARRIVE AT THE TARGET SLUMP AND THE CONTRACTOR SHOULD NOT BE ALLOWED TO ADD WATER TO THE MIXTURE.

3. MINIMUM STRENGTH FOR REMOVAL OF FORMS AND SHORING SHALL BE 75% OF SPECIFIED STRENGTH AT 28 DAYS.
4. EXCEPT AS OTHERWISE REQUIRED, ALL EXPOSED CONCRETE CORNERS AND EDGES SHALL HAVE 3/4" CHAMFERS.
5. NO ADMIXTURES SHALL BE USED WITHOUT APPROVAL. NO AIR ENTRAINMENT SHALL BE ALLOWED IN FLAT SLABS. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED. CONCRETE SHALL NOT BE IN CONTACT WITH ALUMINUM.
6. FLY ASH (POZZOLAN) IF PERMITTED SHALL NOT EXCEED 15% REPLACEMENT OF TOTAL CEMENT CONTENT USING A 1:1 REPLACEMENT FACTOR
7. PROVIDE 15 MILS THICK VAPOR RETARDER UNDER ALL SLAB ON GRADE. ALL JOINTS AND SEAMS, BOTH LATERAL AND BUTT, SHALL BE OVERLAPPED 6" AND TAPED. ALL DAMAGED AREAS AND PENETRATIONS SHALL BE SEALED WITH VAPOR RETARDER AND TAPE. VAPOR RETARDER SHALL EXTEND FROM THE BOTTOM OF THE SLAB DOWN ALL FOOTINGS A MINIMUM OF 12".

REINFORCING STEEL

1. LATEST ACI CODE AND DETAILING MANUAL APPLY. ALL REINFORCING BARS DEFORMED UNLESS NOTED OTHERWISE.
2. ALL REINFORCING SHALL BE ASTM A-615 GRADE 60 EXCEPT AS FOLLOWS:
   A. WIRE MESH.....A-185
   B. WELDED ANCHORS.....GRADE 40
   CHEMICAL ANALYSIS LIMITED PER AWS SPECIFICATIONS FOR WELD WITHOUT PREHEAT.
   C. WELDED ANCHORS #5 AND LARGER.....ASTM A-706
3. CLEAR CONCRETE COVER TO REINFORCING ARE AS FOLLOWS:
   A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"
   B. EXPOSED TO EARTH OR WEATHER:
   - #6 AND LARGER.....2"
   - #5 AND SMALLER.....1 1/2"

   C. SLAB ON GRADE.....2" BELOW TOP OF SLAB
4. SLAB REINFORCING SHALL BE LAPPED A MINIMUM OF 16".
5. LAP REINFORCING BARS IN CONTINUOUS FOOTINGS 30 BAR DIAMETERS OR 24" MINIMUM. ALL HORIZONTAL REINFORCING IN CONTINUOUS FOOTINGS AND WALLS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP A MINIMUM OF 30 BAR DIAMETERS OR 24" MINIMUM.
6. WHERE BARS ARE SHOWN SPLICED, THEY MAY RUN CONTINUOUS AT CONTRACTOR'S OPTION.

STRUCTURAL STEEL

1. FOR ALL STRUCTURAL STEEL FABRICATION AND CONSTRUCTION LATEST AISC HANDBOOKS AND CODES SHALL APPLY. ALL STEEL FABRICATION IS REQUIRED TO BE COMPLETED BY AN APPROVED STEEL FABRICATOR RECOGNIZED BY THE BUILDING DEPARTMENT.
2. PREFERRED SPECIFICATIONS PER AISC:

   STEEL

WIDE FLANGE MEMBERS	ASTM A992 - GRADE 50
C, MC CHANNEL MEMBERS	ASTM A992 - GRADE 50
STEEL PIPE	ASTM A53 - GRADE 50
STEEL TUBE	ASTM A500 - GRADE C - 50 KSI
OTHER STEEL SHAPES	ASTM A572 - GRADE 50
STEEL PLATE	ASTM A36 - 36 KSI

3. ANCHOR BOLTS, ASTM F1554 GRADE 36 UNO; HIGH STRENGTH BOLTS, A-325-X OR A-325- SC PER SCHEDULES. MINIMUM EMBEDMENT OF ALL BOLTS IN GROUT OR CONCRETE SHALL BE 8" INCLUDING BOLT HEAD OR 5" WITH A STD HOOK. WELDED ANCHORS AND SHEAR CONNECTORS SHALL BE ICC APPROVED.
4. UNLESS OTHERWISE NOTED MINIMUM CONNECTION SHALL BE: (2) 3/4" DIAMETER BOLTS OR 3/16" FILLET WELD 4" LONG, USING 1/4" CONNECTION MATERIAL AND DETAILED TO MINIMIZE BENDING IN THE CONNECTION.

WELDING

1. ALL CONSTRUCTION AND TESTING PER AMERICAN WELDING SOCIETY CODES AND RECOMMENDATIONS. ALL WELDING SHALL BE BY WELDERS HOLDING CURRENT VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN TYPE OF WELD CALLED FOR. WELDING RODS TO BE LOW HYDROGEN TYPE, E70 FOR STRUCTURAL STEEL AND E60 FOR METAL DECK AND LIGHT GAGE STEEL STUDS.
2. ALL BUTT WELDED SPLICES IN MATERIAL THICKER THAN 5/16" SHALL BE INSPECTED BY AN INDEPENDENT TESTING LABORATORY, TO CERTIFY CONNECTION AS MEETING OR EXCEEDING STRENGTH OF MATERIALS SPLICED.
3. ALL WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE "STRUCTURAL WELDING CODES-STEEL" AWS D1.1, CURRENT EDITION.
4. ALL WELDING OF LIGHT GAGE STEEL STUDS AND STEEL DECK SHALL CONFORM TO THE "STRUCTURAL WELDING CODES-SHEET STEEL" AWS D1.3, CURRENT EDITION.
5. WELDS INDICATED MAY BE MADE IN SHOP OR FIELD WITH APPROVAL.

PRE-ENGINEERED METAL BUILDING

1. THE BUILDING SHALL BE DESIGNED AND FABRICATED ACCORDING TO AISC, MBMA AND AISI LATEST SPECIFICATIONS, WHICHEVER IS MORE RESTRICTIVE.
2. PROVIDE SINGLE-SPAN FRAMES WITH PINNED COLUMN ENDS FOR INTERIOR FRAMES. MULTIPLE-SPAN FRAMES WITH PINNED COLUMN ENDS MAY BE USED FOR END FRAMES. COLUMN ENDS SHALL NOT TRANSFER MOMENTS TO FOUNDATIONS.
3. BUILDING SHALL BE DESIGNED TO INCLUDE LOADS INDUCED BY THE HVAC, MECHANICAL, PROCESS EQUIPMENT, PIPING SPRINKLERS, EXHAUST SYSTEM, AND OTHER SUCH DEVICES SHOWN ON THE PLANS AND AS SPECIFIED. ADDITIONAL GIRTS OR PURLINS SHALL BE DESIGNED AND PLACED IN CONVENIENT LOCATIONS FOR ATTACHMENT OF ALL DEVICES OR EQUIPMENT. CONTRACTOR SHALL PROVIDE BUILDING MANUFACTURER WITH THE EQUIPMENT LOADS AND OTHER INFORMATION THAT IS NEEDED FOR THE BUILDING DESIGN.
4. PROVIDE FRAMING MADE OF STRUCTURAL STEEL SHAPES AROUND OVERHEAD DOORS. COLD-FORM CHANNEL JAMBS ARE NOT ALLOWED. DESIGN THE FRAMING FOR ALL EFFECTS OF WIND AND DEAD LOADS.
5. METAL BUILDING SUPPLIER SHALL SUBMIT SIGNED AND SEALED DRAWINGS AND CALCULATIONS TO ENGINEER FOR REVIEW. FOUNDATION CONSTRUCTION AND REBAR PROCUREMENT SHALL NOT COMMENCE UNTIL DRAWINGS AND CALCULATIONS HAVE BEEN APPROVED.
6. FIELD MODIFICATIONS: DO NOT MODIFY ANY STRUCTURAL ELEMENT OF THE PREFABRICATED METAL BUILDING WITHOUT WRITTEN CONSENT AND DIRECTION FROM THE MANUFACTURER. SEND COPIES OF THE CONSENT AND MODIFICATIONS TO THE ARCHITECT/ENGINEER FOR REVIEW.
7. ANCHOR BOLTS AND BASEPLATE CONNECTIONS OF THE PREFABRICATED COLUMNS TO THE FOUNDATIONS SHALL BE OF THE NUMBER, DIAMETER, AND LAYOUT SHOWN IN THE DRAWINGS PREPARED BY THE PREFABRICATED METAL BUILDING MANUFACTURER. THE DEPTH OF EMBEDMENT FOR THE ANCHOR BOLTS ARE SHOWN IN THESE STRUCTURAL CONTRACT DRAWINGS.
8. DISCLAIMER: THESE FOUNDATION DRAWINGS ARE BASED UPON ESTIMATED COLUMN REACTIONS GENERATED FROM NIEMAN ENGINEERING, LLC. THE FOOTING SCHEDULE INDICATES THE MAXIMUM ANTICIPATED LOADS FOR EACH TYPE OF SPREAD FOOTING. REVISIONS TO THE FOUNDATION DESIGN MAY BE NECESSARY IF ACTUAL LOADS INDICATED IN THE METAL BUILDING SUBMITTAL EXCEED THE ANTICIPATED LOADS IN THE FOOTING SCHEDULE.

SHOP DRAWINGS & SUBMITTALS

1. SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER FOR EACH STRUCTURAL BUILDING MATERIAL AS INDICATED IN THE STRUCTURAL GENERAL NOTES AND THE CONTRACT SPECIFICATIONS. SEE THE CONTRACT SPECIFICATION FOR SUBMITTAL PROCEDURE AND ADDITIONAL INFORMATION.
2. SHOP DRAWINGS SHALL USE DRAFTING LINE WORK AND LETTERING THAT IS CLEARLY LEGIBLE. SHOP DRAWINGS SHALL NOT CONTAIN REPRODUCTIONS OF THE CONTRACT DRAWINGS PLANS OR DETAILS.
3. SHOP DRAWINGS SHALL SHOW CLEAR AND COMPLETE INFORMATION FOR THE FABRICATION (DETAIL SHEETS AND/OR MATERIAL LIST) AND INSTALLATION.
4. ALLOW A MINIMUM OF (2) WEEKS FOR REVIEW OF EACH SET OF SHOP DRAWINGS.
5. THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS SUBMITTED BY THE SUBCONTRACTOR AND COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADES.
6. THE CONTRACTOR SHALL ANSWER ALL QUESTIONS OR CLARIFICATIONS BY THE SUBCONTRACTOR BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW. ANY QUESTIONS THAT THE CONTRACTOR CANNOT ANSWER WITH THE INFORMATION ON THE DRAWINGS SHALL CLEARLY BE MARKED FOR THE ENGINEER FOR REVIEW.
7. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, SEE NOTE 3 & 6 UNDER GENERAL NOTES.
8. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIALS INDICATED ON THE SHOP DRAWINGS.

STRUCTURAL OBSERVATIONS

1. JOB SITE OBSERVATIONS BY THE PROFESSIONAL ENGINEER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONSIST OF VISUAL OBSERVATION OF MATERIALS, EQUIPMENTS OR CONSTRUCTION WORK FOR THE PURPOSE OF ASCERTAINING THAT THE WORK IS IN SUBSTANTIAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND WITHIN THE DESIGN INTENT. SUCH OBSERVATIONS SHALL NOT BE RELIED UPON BY OTHERS AS ACCEPTANCE OF THE WORK, NOR SHALL IT BE CONSTRUCTED TO RELIEVE THE CONTRACTOR IN ANY WAY FROM HIS OBLIGATIONS AND RESPONSIBILITY UNDER THE CONSTRUCTION CONTRACT. SPECIFICALLY BUT WITHOUT LIMITATIONS, OBSERVATIONS BY THE DESIGN PROFESSIONAL SHALL NOT REQUIRE THE DESIGN PROFESSIONAL TO ANSWER RESPONSIBILITY FOR THE MEANS AND METHODS OF CONSTRUCTION, NOR FOR SAFETY ON THE JOB SITE.
2. NOTIFY ENGINEER 48 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVATION IS REQUIRED. NOTIFY THE ENGINEER FOR THE FOLLOWING ITEMS:
   2.1 BEFORE PLACEMENT OF CONCRETE FOR FOUNDATIONS AND SLAB.
   2.2 AFTER FRAMING OF ROOF STRUCTURE BUT BEFORE PLACEMENT OF ROOFING MATERIAL.

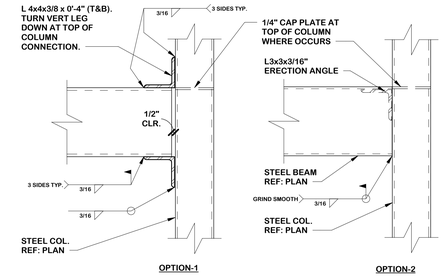
SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE IBC 2021 (INTERNATIONAL BUILDING CODE 2021) BY A SPECIAL INSPECTOR HIRED BY THE OWNER TO PERFORM THE SPECIAL INSPECTIONS LISTED BELOW. THE SPECIAL INSPECTOR SHALL BE QUALIFIED BY AN APPROVED AGENCY ACCORDING TO THE CITY'S BUILDING OFFICIAL TO PERFORM SPECIAL INSPECTIONS FOR WHICH THEY WILL BE UNDERTAKING. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE ARCHITECT. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF LEFT UNCORRECTED TO THE STRUCTURAL ENGINEER, ARCHITECT AND BUILDING DEPARTMENT.
2. WHEN INDICATED WITH A "X", THE FOLLOWING SHALL BE INSPECTED.

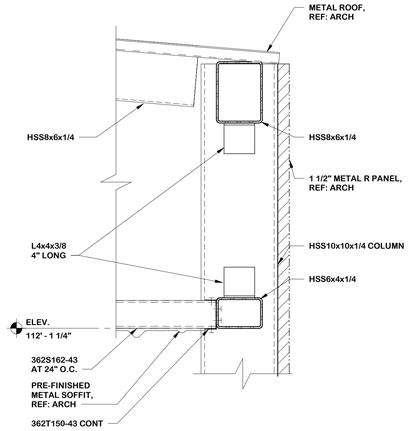
ITEM	REQ'D	REMARKS
GRADING, EXCAVATIONS, FILL, FOOTING	X	BY GEOTECHNICAL ENGINEER
CONCRETE - BATCH PLANT INSPECTION	X	CONTINUOUS
CONCRETE - CONCRETE PLACEMENT	X	PERIODIC
CONCRETE - REBAR PLACEMENT	X	INSPECT FINAL PLACEMENT
CONCRETE - ANCHOR BOLTS AND PLATES	X	INSPECT FINAL PLACEMENT

STRUCTURAL ABBREVIATIONS

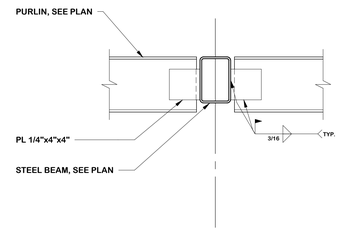
AB	ANCHOR BOLT	MAX	MAXIMUM
ADJ	ADJACENT	MBM	METAL BUILDING
AFF	ABOVE FINISH FLOOR	MECH	MECHANICAL
ALUM	ALUMINUM	MFR	MANUFACTURER
APPROX	APPROXIMATELY	MIN	MINIMUM
ARCH	ARCHITECT(URAL)	NOM	NOMINAL
BLDG	BUILDING	NTS	NOT TO SCALE
BRG	BEARING	OD	OUTSIDE DIAMETER
BOT	BOTTOM	OF	OUTSIDE FACE
BTWN	BETWEEN	OPPO	OPPOSITE HAND
O.C.	ON CENTER TO CENTER	PEMB	PRE-ENGINEERING METAL BUILDING
CJ	CONSTR/CONTROL JOINT	OPNG	OPENING
℄	CENTERLINE	OPP	OPPOSITE
CLR	CLEAR	PL	PLATE
COL	COLUMN	PNL	PANEL
CONC	CONCRETE	R	RADIUS
CONST	CONSTRUCTION	RAD	RADIUS
CONT	CONTINUOUS	RE	REFER TO
DIA/Ø	DIAMETER	REF	REFERENCE
DIAG	DIAGONAL	REINF	REINFORCING
DN	DOWN	REQ'D	REQUIRED
DWG	DRAWING	SCHED	SCHEDULE
DWL	DOWEL	SEC	SECTION
EA	EACH	SF	SQUARE FEET
EF	EACH FACE	SHT	SHEET
EL	ELEVATION	SIM	SIMILAR
ELEC	ELECTRIC(AL)	SJ	SAWCUT JOINT
EXP JT	EXPANSION JOINT	SPA	SPACE(S)
EQ	EQUAL	SPEC(S)	SPECIFICATIONS
EQUIP	EQUIPMENT	SQ	SQUARE
EW	EACH WAY	SS	STAINLESS STEEL
EXIST	EXISTING	STD	STANDARD
EJ	EXPANSION JOINT	STIFF	STIFFENER
EXT	EXTERIOR	STIR	STIRRUP
FD	FLOOR DRAIN	STL	STEEL
FND	FOUNDATION	STRUCT	STRUCTURAL
FF	FINISH FLOOR	SYM	SYMMETRICAL
FFE	FINISH FLOOR ELEVATION	T	TREAD/THICKNESS
FT	FEET	T&B	TOP AND BOTTOM
FTG	FOOTING	TC	TOP OF CURB
GA	GAUGE	TOB	TOP OF BEAM
GALV	GALVANIZED	TOJ	TOP OF JOIST
GB	GRADE BEAM	TOS	TOP OF STEEL
HORIZ	HORIZONTAL	TOW	TOP OF WALL
HP	HIGH POINT	TRANS	TRANSVERSE
HS	HEADED STUDS	TS	TUBE STEEL
HSS	HOLLOW STRUC. SEC.	TYP	TYPICAL
ID	INSIDE DIAMETER	VERT	VERTICAL
IN	INCH	W	WIDTH
INT	INTERIOR	W/	WITH
JT	JOINT	WD	WOOD
LLH	LONG LEG HORIZ.	WO	WITHOUT
LLV	LONG LEG VERTICAL	WP	WORKING POINT
LONG	LONGITUDINAL	WS	WATER STOP
LP	LOW POINT	WWF	WELDED WIRE FABRIC



1 HSS BEAM AT STEEL COLUMN
1 1/2" = 1'-0" S460



2 ENLARGED DETAIL
1 1/2" = 1'-0"



3 TYPICAL PURLIN TO RAFTER
1 1/2" = 1'-0"

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PROJECT #: 25025

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Midland - Odessa

GOODWILL INDUSTRIES OF NORTHWEST TEXAS
NEW RETAIL & CAREER RESOURCE CENTER
512 N MLK JR. BLVD LUBBOCK
TX 79403

Goodwill Industries of Northwest Texas
We help people in need help themselves

Issue / Revisions:

No.	Date	Description
0	08/08/25	100% CONSTRUCTION DOCUMENTS

STATE OF TEXAS
ROSS N. NIEMAN
125922
LICENSED
PROFESSIONAL ENGINEER
08/08/2025

JSA No: 2025-07

GENERAL STRUCTURAL NOTES

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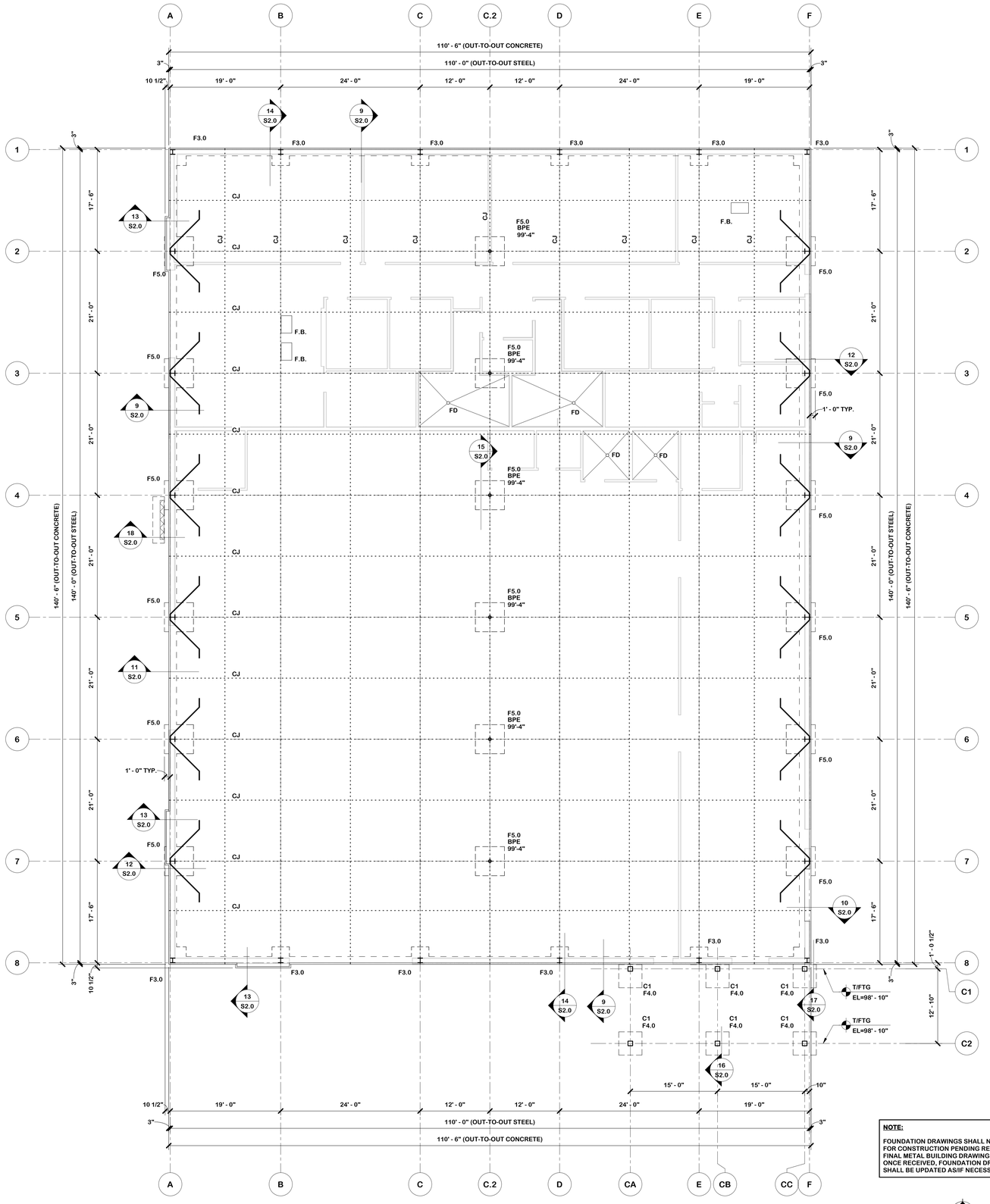


1 FOUNDATION PLAN - MAIN BUILDING
1/8" = 1'-0"

NOTE:

FOUNDATION DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION PENDING RECEIPT OF FINAL METAL BUILDING DRAWINGS AND LOADS. ONCE RECEIVED, FOUNDATION DRAWINGS SHALL BE UPDATED AS/IF NECESSARY.

PROJECT NORTH

FOUNDATION NOTES

1. TOP OF CONCRETE SLAB ELEV = 100'-0", UNLESS NOTED OTHERWISE ON PLAN.
2. SLAB SHALL BE 5" THICK REINFORCED WITH #4 BARS AT 18" O.C. EACH WAY OVER 15-MIL VAPOR RETARDER.
3. CONTRACTOR SHALL VERIFY ANY DIMENSIONS SHOWN WITH PRE-ENGINEERED METAL BUILDING DRAWINGS.
4. FOR FOOTING EXCAVATION AND SOIL PREPARATION REQUIREMENTS REF: GEOTECH REPORT.
5. CONC. C.J. AS SHOWN ON PLAN INDICATES LOCATION OF EITHER FORMED OR SAWCUT (CONTRACTOR'S OPTION) CONTROL JOINT IN SLAB ON GRADE. SEE DETAIL 3/S2.0
6. FOR TYPICAL PIPE PASSING BELOW FOOTING SEE DETAIL 2/S2.0
7. F4.5, F8.0,... AS SHOWN ON PLANS INDICATES PAD & SPOT FOOTING. SEE FOOTING SCHEDULE THIS SHEET.
8. ALL RE-ENTRANT CORNERS TO HAVE #3x3'-0" AT 45° TO MAIN REINFORCING. SEE DETAIL 8/S2.0
9. BOTTOM OF BASE PLATE ELEVATION (BPE) SHALL BE ELEV=100'-0" AT ALL LOCATIONS UNLESS NOTED OTHERWISE ON PLAN.
10. LOCATE FLOOR SINKS, FLOOR DRAINS (F.D.) AND DEPRESSED SLABS PER ARCH'L AND PLUMBING DRAWINGS. LOCATE RECESSED ELECTRICAL FLOOR BOXES (F.B.) PER ELCTRICAL DRAWINGS.

COLUMN (C) SCHEDULE

MARK	TYPE	BASE PLATE
C1	HSS10X10X1/4	3/4"x16" x 1'-4" W/ (4) 3/4" DIA. ANCHOR BOLTS

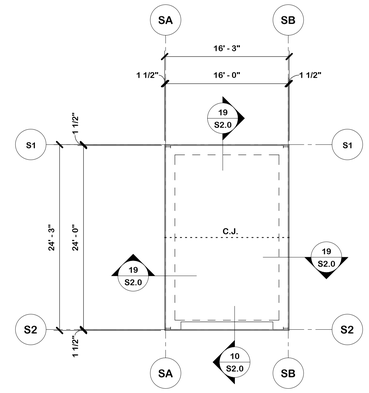
GRADE BEAM (GB) SCHEDULE

TYPE	WIDTH	DEPTH	REINFORCING
GB-1	1' - 4"	1'-10"	(2) #5 TOP & BOTTOM W/ #3 STIRRUPS AT 24" O.C.

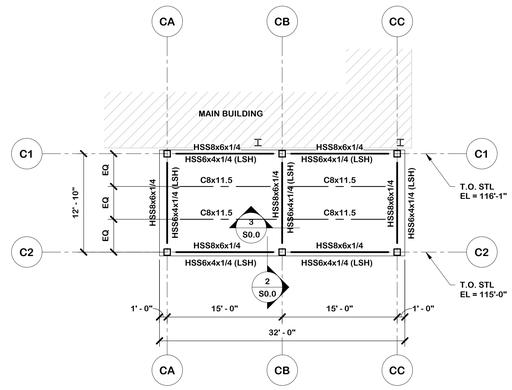
NOTE: ALL GRADE BEAMS SHALL BE GB-1 UNLESS NOTED OTHERWISE ON PLAN.

FOOTING (F) SCHEDULE

MARK	SIZE	DEPTH	REINFORCING
F3.0	3'-0" x 3'-0"	1'-10"	(4) #5 BARS EACH WAY TOP AND BOTTOM
F4.0	4'-0" x 4'-0"	1'-4"	(4) #5 BARS EACH WAY TOP AND BOTTOM
F5.0	5'-0" x 5'-0"	1'-10"	(6) #5 BARS EACH WAY TOP AND BOTTOM



2 FOUNDATION PLAN - STORAGE BUILDING
1/8" = 1'-0"



3 FRAMING PLAN - CANOPY
1/8" = 1'-0"

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STATE OF TEXAS
ROSS N. NIEMAN
115922
LICENSED
PROFESSIONAL ENGINEER
08/08/2025

JSA No: 2025-07

FOUNDATION PLAN

S1.0

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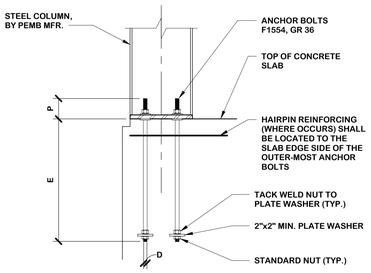
LAP SPLICE LENGTHS (IN.)				
BAR SIZE	LENGTHS (IN.)			
	3000 PSI		4000 PSI	
	TOP BARS[1]	OTHER BARS	TOP BARS[1]	OTHER BARS
#3	28	21	24	18
#4	37	28	32	25
#5	46	36	40	31
#6	56	43	48	37
#7	81	62	70	54

NOTES:
1. TABULATED VALUES ARE BASED ON GRADE 60 UNCOATED REINFORCING BARS, NORMAL WEIGHT CONCRETE AND MIN. COVER OF d_b WITH MIN. CLEAR SPACING OF $2d_b$.

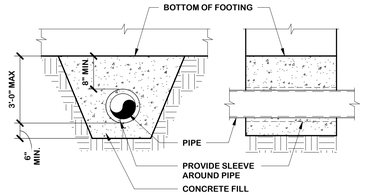
2. TENSION LAP SPLICES ARE CALCULATED PER ACI 318 SECTIONS 12.2 & 12.15

3. ALL LAP SPLICES ARE CLASS B SPLICES PER ACI 318 SECTION 12.15

1 LAP SPLICE FOR CONCRETE
1/2" = 1'-0" F300



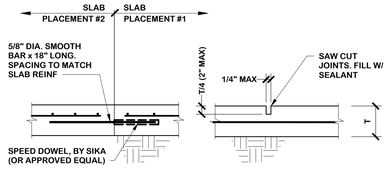
2 PIPE PASSING BELOW FOOTING
1/2" = 1'-0" F301



NOTES:
1. CONCRETE FILL TO BE PLACED FULL WIDTH OF PIPE TRENCH.

2. FOR PIPE BURIAL DEPTH OF 3'-1" OR MORE, CONTRACTOR SHALL BACK FILL AND RECOMPACT TRENCH AS REQUIRED.

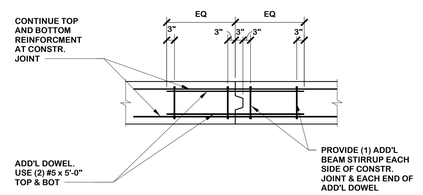
3 TYPICAL CONTRACTION JOINTS
1/2" = 1'-0" F303



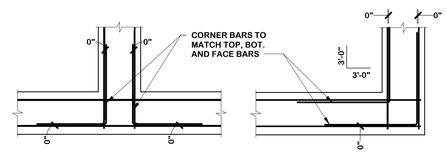
1. SHEAR BARS SHALL BE SMOOTH, FREE RUST OR SCALE W/ POLYETHYLENE SLEEVE ON ONE SIDE. SLEEVE MUST HAVE 1/2" LONG GAP AT END OF DOWEL TO ASSURE SLIPPAGE IN BOTH DIRECTIONS. DOWLES SHALL BE AT MID-HEIGHT OF SLAB.

2. SAWCUT SLAB AFTER CONCRETE IS HARD ENOUGH TO AVOID SPALLING AND DAMAGE BUT IN A TIMELY MANNER SO AS TO PREVENT RANDOM CRACKING BUT NOT LATER THAN 12 HOURS AFTER CONCRETE PLACEMENT.

4 GRADE BEAM CONSTRUCTION JOINT
1/2" = 1'-0" F305



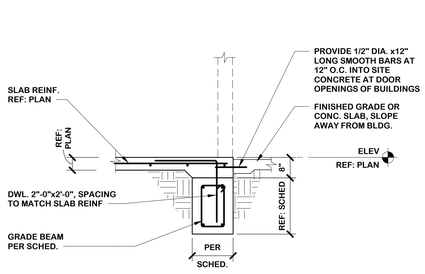
5 TYPICAL GRADE BEAM REINF. AT CORNERS
1/2" = 1'-0" F306



NOTES:
1. STIRRUP NOT SHOWN FOR CLARITY.

2. PROPERLY VIBRATE CONCRETE IN THE CORNERS DURING PLACEMENT.

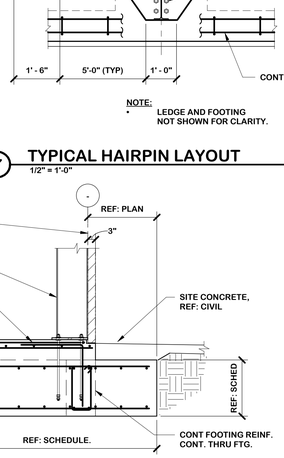
6 TYPICAL ANCHOR BOLT DETAIL
1" = 1'-0"



NOTE:
1. PROVIDE ANCHOR BOLTS SIZE, QUANTITY AND SPACING AS SHOWN BY THE PEMB MANUFACTURER.
2. ALL ANCHOR BOLTS SHALL BE CLEAN AND FREE OF ALL OIL, GREASE, ICE OR OTHER MATERIALS THAT COULD IMPAIR THEIR BOND WITH THE CONCRETE.
3. ANCHOR BOLT ASSEMBLY SHALL BE SECURED PRIOR TO PLACING CONCRETE.

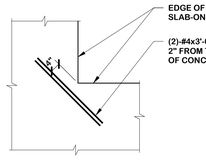
"D" ANCHOR DIA.	"P" PROJECTION	"E" EMBEDMENT
5/8"	4"	12"
3/4"	4"	16"

7 TYPICAL HAIRPIN LAYOUT
1/2" = 1'-0"

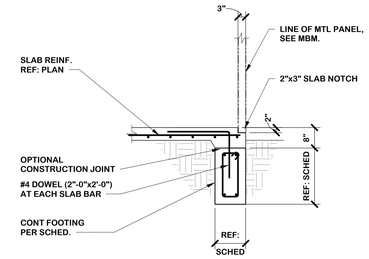


NOTE:
• LEDGE AND FOOTING NOT SHOWN FOR CLARITY.

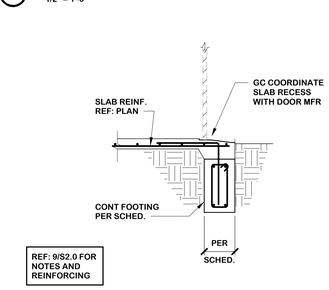
8 RE-ENTRANT CORNER REINF.
1/2" = 1'-0" F307



9 TYPICAL FOUNDATION DETAIL
1/2" = 1'-0" S316

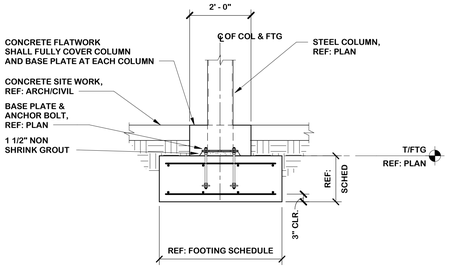


10 FOUNDATION AT OVERHEAD DOOR
1/2" = 1'-0" S317

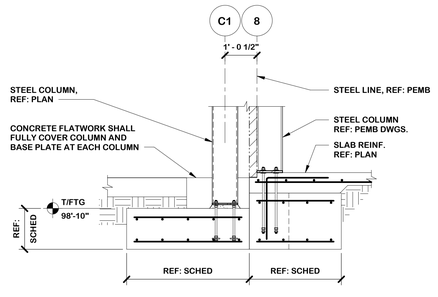


REF: 9/S2.0 FOR NOTES AND REINFORCING

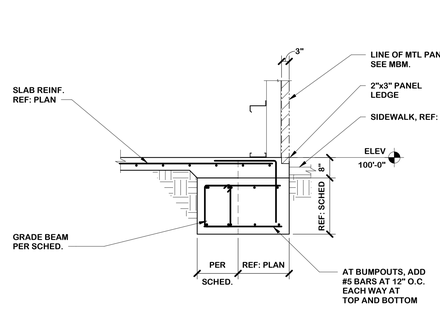
11 FOUNDATION AT DOOR OPENING
1/2" = 1'-0"



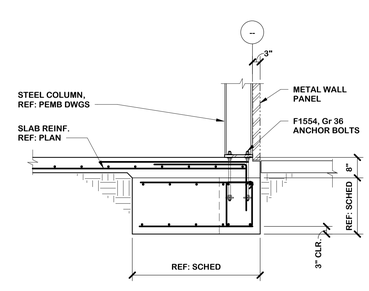
12 TYPICAL FOOTING DETAIL
1/2" = 1'-0"



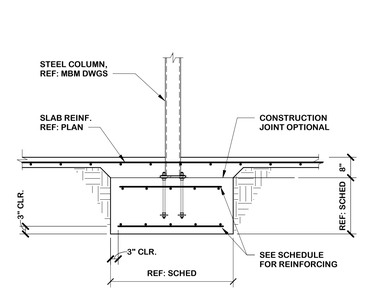
13 FOUNDATION AT BUMP-OUTS
1/2" = 1'-0" S316



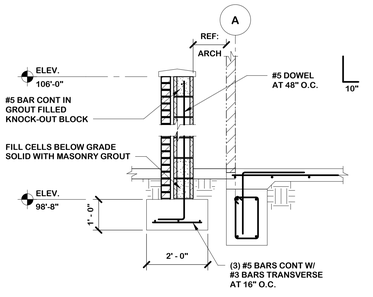
14 COLUMN FOOTING DETAIL
1/2" = 1'-0"



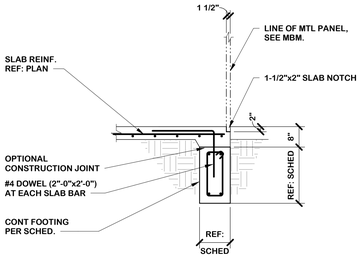
15 INTERIOR COLUMN FOOTING DETAIL
1/2" = 1'-0" S306



16 CANOPY COLUMN FOOTING AT PAVING
1/2" = 1'-0" S320



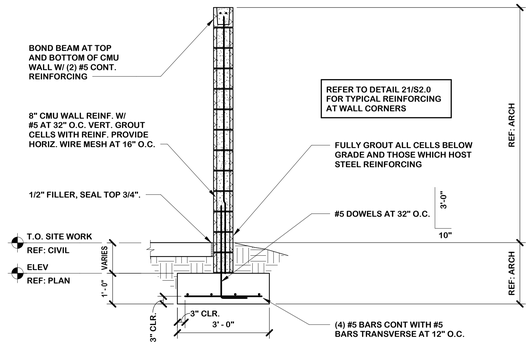
17 FOUNDATION SECTION
1/2" = 1'-0"



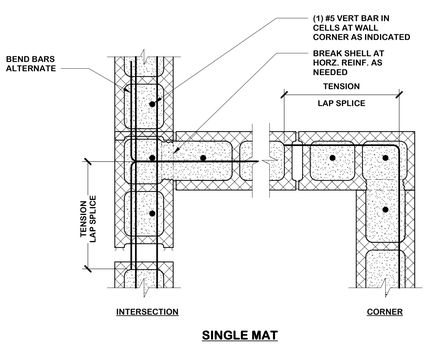
18 MONUMENT SIGN FOUNDAITON
1/2" = 1'-0"

19 TYPICAL FOUNDATION DETAIL
1/2" = 1'-0" S316

20 MASONRY WALL AT FENCE AND DUMPSTER ENCLOSURE
1/2" = 1'-0"



21 REINFORCING MASONRY AT WALL INTERSECTIONS
1 1/2" = 1'-0" M401



SINGLE MAT

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Midland - Odessa

GOODWILL INDUSTRIES OF NORTHWEST TEXAS
NEW RETAIL & CAREER RESOURCE CENTER
512 N MLK JR. BLVD LUBBOCK TX 79403

Goodwill Industries of Northwest Texas
"the only acceptance is a good attitude"

Issue / Revisions:

No.	Date	Description
0	08/08/25	100% CONSTRUCTION DOCUMENTS

STATE OF TEXAS
ROSS N. NIEMAN
11/5/20
08/18/2025

JSA No: 2025-07

TYPICAL FOUNDATION DETAILS

S2.0

Nieman Engineering, LLC
5502 58th St., Suite 400 Lubbock, TX 79414
T: 806-589-3340 TBPE Firm Registration No: F- 14148
PROJECT #: 25025

8/11/2025 3:11:02 PM C:\Users\aaronhoffer\Documents\25025_Goodwill RE4_CENTRAL_aaronhoffer.rvt

MECHANICAL GENERAL NOTES

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS IN ADDITION TO THE RELATED PLUMBING, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, AND CIVIL ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE ENTIRE SCOPE OF THE PROJECT. IN ADDITION, THE CONTRACTOR MUST COORDINATE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.

2. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, NATIONAL, CITY, STATE, AND ANY LOCAL ORDINANCES WHICH MAY BE IN EFFECT. ALL MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS WORK.

3. THE CONTRACTOR SHALL PROVIDED ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM FOR THE BUILDING OWNER. MATERIALS, EQUIPMENT OR LABOR NOT INDICATED, BUT WHICH CAN BE REASONABLY INFERRED TO BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. THE DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT OR LABOR REQUIRED TO PRODUCE A SAFE, COMPLETE AND PROPERLY OPERATING SYSTEM.

4. THE DRAWING SHEETS SHALL BE PRINTED USING THE CORRECT PAPER SIZE IN ORDER FOR ANY SCALED ITEMS TO BE ACCURATE. HOWEVER, THE CONTRACTOR SHALL NOT RELY ON THE SCALED DRAWINGS FOR EXACT MEASUREMENTS. THE LOCATIONS, ARRANGEMENT AND EXTENT OF EQUIPMENT, PIPING, DUCTWORK, AND ITEMS RELATED TO THE INSTALLATION OF THE MECHANICAL WORK SHOWN ARE APPROXIMATE. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE.

5. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR, AND CIVIL ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. SHOULD THE CONTRACTOR REQUIRE FURTHER CLARIFICATION, AN RFI SHALL BE SUBMITTED FOR CLARIFICATION. WHERE CONFLICTS DO EXIST, THE PROJECT ENGINEER OF RECORD, THROUGH THE ARCHITECT, SHALL HAVE SOLE DISCRETION AND RIGHT TO PROVIDE INTERPRETATION OF INTENT OF THE CONTRACT DOCUMENTS AS REQUIRED. THIS INTERPRETATION SHALL SERVE TO DIRECT THE CONTRACTOR IN ACCORDANCE WITH THE IMPLIED INTENT OF THE CONSTRUCTION DOCUMENTS WITHOUT ADDITIONAL COST TO THE PROJECT.

6. THE CONTRACTOR SHALL PROVIDE THE BUILDING OWNER WITH A COMPLETE SET OF "AS BUILT" DRAWINGS SHOWING ALL FIELD MODIFICATIONS THAT DEVIATE FROM THE CONSTRUCTION SET OF PLANS AT THE COMPLETION OF THE PROJECT.

7. ORDER OF PRECEDENCE SHALL BE OBSERVED IN LAYING OUT THE PIPE, DUCTWORK, MATERIAL, AND CONDUIT IN ORDER TO FIT THE MATERIAL INTO THE SPACE ABOVE THE CEILING AND IN THE CHASES AND WALLS. THE FOLLOWING ORDER SHALL GOVERN:
   1. ITEMS AFFECTING THE VISUAL APPEARANCE OF THE INSIDE OF THE BUILDING SUCH AS LIGHTING FIXTURES, DIFFUSERS, GRILLES, OUTLETS, PANELBOARDS, ETC. COORDINATE ALL ITEMS TO AVOID CONFLICTS AT THE SITE.
   2. LINES REQUIRING GRADE TO FUNCTION SUCH AS SEWERS, ROOF DRAINS AND CONDENSATE DRAINS.
   3. LARGE DUCTS AND PIPES WITH CRITICAL CLEARANCES.
   4. FIRE SPRINKLER LINES, CONDUIT, WATER LINES, AND OTHER LINES WHOSE ROUTING IS NOT CRITICAL AND WHOSE FUNCTION WOULD NOT BE IMPAIRED BY BENDS AND OFFSETS.

8. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL MECHANICAL UNITS WITH NEW AIR FILTERS THROUGHOUT THE CONSTRUCTION DURATION TO PROTECT THE EQUIPMENT FROM DEBRIS. PROVIDE A NEW SET OF FILTERS UPON TESTING AND BALANCING, AND ANOTHER NEW SET OF FILTERS FOR OWNER'S FIRST FILTER CHANGE AFTER OCCUPANCY.

9. DURING CONSTRUCTION, ALL OPEN ENDED DUCTS AND PIPES SHALL BE COVERED TO PREVENT DEBRIS FROM GETTING INSIDE. THE CONTRACTOR SHALL ALSO PROVIDE TEMPORARY HEATING INSIDE THE BUILDING IF REQUIRED TO AVOID FREEZING OF WATER PIPING SYSTEMS.

10. HANDLE AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS AND IN A MANNER TO PREVENT DAMAGE TO MATERIALS DURING STORAGE AND HANDLING. REPLACE DAMAGED MATERIALS AS NEEDED AT NO ADDITIONAL COST TO THE OWNER. EQUIPMENT AND MATERIALS SHALL NOT BE INSTALLED UNTIL SUCH TIME AS THE ENVIRONMENTAL CONDITIONS OF THE JOB SITE ARE SUITABLE TO PROTECT THE EQUIPMENT OR MATERIALS. EQUIPMENT OR MATERIALS DAMAGED, OR WHICH ARE SUBJECTED TO THESE ELEMENTS, ARE UNACCEPTABLE AND SHALL BE REMOVED FROM THE PREMISES AND REPLACED

11. ROUTE DUCTS AND PIPES PARALLEL AND PERPENDICULAR TO THE BUILDING STRUCTURE UNLESS OTHERWISE SHOWN ON PLANS. INSTALL ALL DUCTS AND PIPING AS HIGH AS POSSIBLE WITHIN THE AVAILABLE SPACE. MECHANICAL EQUIPMENT, DUCTS, AND PIPES SHALL BE INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE. INSTALL DUCTS AND PIPES TO ALLOW FOR THE REMOVAL OF ALL CEILING TILES. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES AND LIGHT FIXTURES. COORDINATE AS REQUIRED TO AVOID CONFLICTS.

12. LOCATE ALL THERMOSTATS, HUMIDISTATS, CONTROLLERS, AND SENSORS AT 48" A.F.F. UNLESS NOTED OTHERWISE. MOUNT AT MINIMUM OF SIX INCHES FROM WALL CORNERS. COORDINATE THE MOUNTING LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE LABEL AT EACH THERMOSTAT INDICATED THE UNIT MARK. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL ALL THERMOSTATS AND INSTALL ALL THERMOSTAT WIRING. ELECTRICIAN TO PROVIDE BACK BOX WITH CONDUIT UP TO ACCESSIBLE CEILING AT ALL THERMOSTAT/SENSOR LOCATIONS

13. MAINTAIN MINIMUM 10'-0" SEPARATION BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, AND PLUMBING VENTS.

14. PROVIDE P-TRAP AND CONDENSATE DRAIN LINE AT ALL UNITS, REFER TO DETAILS AND SPECIFICATIONS. CONDENSATE DRAINS SHALL BE ROUTED TO THE NEAREST APPROVED MOP SINK, FLOOR SINK, FLOOR DRAIN, OR OTHER APPROVED RECEPTOR WITH AN INDIRECT CONNECTION AS SHOWN ON PLANS. CONDENSATE SHALL NOT BE ALLOWED TO DRAIN ONTO ANY WALKWAY AREA THAT WOULD CAUSE A NUISANCE.

15. REFRIGERANT PIPING IS SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR SHALL COORDINATE EXACT ROUTING OF PIPING AT JOBSITE. PROVIDE ALL REQUIRED OFFSETS AND ELBOWS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. THE CONTRACTOR SHALL OBSERVE THE UNIT MANUFACTURER'S MAXIMUM LINE LENGTH REQUIREMENTS.

16. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING OF DUCTWORK AT JOBSITE WITH ALL FIELD CONDITIONS PRIOR TO DUCT FABRICATION. ROUTE DUCTS AS REQUIRED, PROVIDE OFFSETS AS REQUIRED, AND CHANGE DUCT SIZES IF REQUIRED WHILE MAINTAINING EQUAL FREE AREA IN DUCT. CONTRACTOR SHALL UTILIZE THE STRAIGHTEST DUCT ROUTING PATH POSSIBLE TO MINIMIZE UNNECESSARY PRESSURE DROP WITHIN THE SYSTEM.

17. WHEREVER THE MANUAL BALANCING DAMPERS ARE RENDERED INACCESSIBLE BEHIND NON REMOVABLE CEILINGS OR FURRINGS, OR OTHER CONSTRUCTION THAT IS NOT EASILY REMOVABLE TO PERMIT ACCESS TO THE DAMPERS, THE DAMPERS SHALL BE EQUAL TO YOUNG REGULATOR NO. 1200 RIGHT ANGLE GEAR REGULATOR, FLEX SHAFT, AND 301-FS CONCEALED DAMPER REGULATOR WITH PRIMER COVER PLATE FOR FIELD PAINTING TO MATCH CEILING.

18. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. NO ALLOWANCE HAS BEEN MADE FOR INTERNAL LINER OR EXTERNAL WRAP.

19. ALL DUCT AND PIPE PENETRATIONS THROUGH WALLS, CEILINGS, FLOORS, AND ROOFS SHALL BE FULLY SEALED APPROPRIATELY. INSTALL SLEEVES FOR PIPING PENETRATIONS FOR RATED WALLS AND FLOORS. INSTALL CHROME PLATED ESCUTCHEONS FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS THAT ARE OPENLY VISIBLE TO BUILDING OCCUPANTS.

20. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURE'S INSTRUCTIONS WITH PROPER SUPPORTS OR MOUNTING DEVICES. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES AROUND EQUIPMENT AT A MINIMUM. PROVIDE VIBRATION ISOLATION FOR ALL MOVING PIECES OF EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, CONTROL WIRE, ETC. THROUGH THE SERVICE CLEARANCE AREAS. UNITS LOCATED IN ATTICS, MEZZANINES, OR DECKED AREAS SHALL HAVE A 3' WIDE BY 5' TALL CLEAR WALKWAY TO EACH UNIT. COORDINATE THESE REQUIREMENTS WITH ALL TRADES IN THE FIELD. ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH A PERMANENT 2" TALL LABEL WITH 1" TALL TEXT. BLACK LABEL WITH WHITE TEXT, OR WHITE LABEL WITH BLACK TEXT

21. ANY COST INCURRED AS A RESULT OF VALUE ENGINEERING OR DEVIATIONS FROM THE BASIS OF DESIGN INDICATED IN THE CONTRACT DOCUMENTS (E.G. ELECTRICAL MODIFICATIONS TO ACCOMMODATE ALTERNATE EQUIPMENT SELECTIONS, DESIGN RELATED EXPENSES FOR REQUIRED DRAWING MODIFICATIONS, ETC.) SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NO INCREASE IN CONTRACT COST WILL BE GRANTED UNLESS APPROVED IN WRITING BY THE OWNER. CONTRACT DOCUMENTS ARE DEFINED TO INCLUDE ALL DISCIPLINES AND DIVISIONS OF THE CONTRACT.

22. EXPOSED DUCTWORK SHALL HAVE PAINT GRIP FINISH, AND PAINTED AS DIRECTED BY ARCHITECT.

23. PIPING SHALL NOT BE ROUTED THROUGH ELECTRICAL OR I.T. ROOMS, OR DIRECTLY ABOVE ELECTRICAL PANELS OR ELECTRICAL EQUIPMENT.

24. ANY PORTIONS OF DUCTWORK VISIBLE THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.

25. ALL RETURN AND EXHAUST GRILLES THAT ARE LOUVERED BLADE TYPE SHALL BE INSTALLED WITH THE BLADES ORIENTED IN THE ANGLE THAT ALLOWS FOR THE LEAST AMOUNT OF VISIBILITY THROUGH THE GRILLE BY THE BUILDING OCCUPANTS.

26. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF MECHANICAL EQUIPMENT AND FIRE DAMPERS. PROVIDE LABEL ON ACCESS DOOR INDICATED THE EQUIPMENT.

27. KITCHEN GREASE EXHAUST DUCTS: GREASE DUCTS SHALL BE DOUBLE WALL WITH ZERO CLEARANCE TO COMBUSTIBLES. REFER TO SPECIFICATIONS. ALL HORIZONTAL GREASE DUCTS SHALL SLOPE BACK TO THE HOOD AT 1/4" PER FOOT. ALL ELBOWS SHALL BE 1.5 DIAMETER SMOOTH RADIUS SMOOTH ELBOWS. GREASE DUCTS SHALL HAVE ACCESS DOORS IN ALL LOCATIONS REQUIRED BY NFPA 96.

MECHANICAL LEGEND

GENERAL SYMBOLS

- XXX-## — MECHANICAL EQUIPMENT MARK (SEE ABBREVIATION LIST AND SCHEDULES)
- (X) — KEYED NOTE
- CONNECT TO EXISTING
- (X) — REVISION NUMBER
- (T) THERMOSTAT
- (H) HUMIDISTAT
- (S) SENSOR
- (C) CONTROLLER
- (F) FAN CONTROLLER
- (H) HEATER CONTROLLER
- (CO2) CARBON DIOXIDE SENSOR
- (P) ROOM PRESSURE SENSOR
- (SP) STATIC PRESSURE SENSOR
- (DP) DIFFERENTIAL PRESSURE SENSOR
- DETAIL REFERENCE — X: INDICATES THE DETAIL NUMBER; M-XX: INDICATES THE DRAWING SHEET
- SECTION REFERENCE — X: INDICATES THE SECTION NUMBER; M-XX: INDICATES THE DRAWING SHEET

PIPE SYMBOLS

- ELBOW DOWN
- ELBOW UP
- TEE UP
- TEE DOWN
- EXXX — EXISTING LINE (XX = SYSTEM)
- DEMOXX — DEMO LINE (XX = SYSTEM)
- D — CONDENSATE DRAIN LINE
- S — REFRIGERANT SUCTION LINE
- L — REFRIGERANT LIQUID LINE
- S/L — REFRIGERANT SUCTION AND LIQUID LINE (SHOWN SINGLE LINE FOR CLARITY)
- S/S/L — REFRIGERANT SUCTION, LIQUID, AND HOT GAS LINES (SHOWN SINGLE LINE FOR CLARITY)
- CWS — CHILLED WATER SUPPLY LINE
- CWR — CHILLED WATER RETURN LINE
- HWS — HEATING WATER SUPPLY LINE
- HWR — HEATING WATER RETURN LINE
- # STM — STEAM LINE (# PSI)
- SCR — STEAM CONDENSATE RETURN LINE
- BALL VALVE
- FLOW DIRECTION

DUCT SYMBOLS

DIFFUSER/ GRILLE LABEL
- X-# — AIR DISTRIBUTION MARK
- X" — NECK SIZE
- ### — AIRFLOW - CFM (IF NO CFM IS LISTED, THEN BALANCING IS NOT REQUIRED FOR THAT DEVICE)

ROUND DUCT CONNECTION TO DIFFUSER/ GRILLE
- DIFFUSER/ GRILLE
- FLEXIBLE DUCT
- ROUND DUCT RUNOUT
- SPIN-IN DUCT TAP WITH MBD
- MAIN DUCT

RECTANGULAR DUCT CONNECTION TO DIFFUSER/ GRILLE
- DIFFUSER/ GRILLE
- ROUND FLEX DUCT (NOT SHOWN) FROM BOTTOM OF DUCT TO DIFFUSER/ GRILLE
- RECTANGULAR DUCT RUNOUT
- 45° ANGLE TAP (MBD IF SHOWN)
- MAIN DUCT

- M — MOTORIZED DAMPER
- FD — 1.5 HOUR FIRE DAMPER (VERTICAL)
- FSD — 1.5 HOUR COMBINATION FIRE SMOKE DAMPER (VERTICAL)
- FD — 1.5 HOUR FIRE DAMPER (HORIZONTAL)
- FSD — 1.5 HOUR COMBINATION FIRE SMOKE DAMPER (HORIZONTAL)
- EXISTING DUCTWORK
- EXISTING DIFFUSER/ GRILLE
- DEMO DUCTWORK
- DEMO DIFFUSER/ GRILLE

- SUPPLY AIRFLOW DIRECTION
- RETURN, EXHAUST, OR TRANSFER AIRFLOW DIRECTION
- SUPPLY DIFFUSER WITH PATTERN
- RETURN GRILLE
- EXHAUST GRILLE
- RETURN GRILLE WITH LINED BOOT
- SUPPLY DUCT - CROSS SECTION
- RETURN DUCT - CROSS SECTION
- EXHAUST DUCT - CROSS SECTION
- OUTSIDE AIR DUCT - CROSS SECTION
- X x X — RECTANGULAR DUCT (WIDTH" X HEIGHT")
- X"Ø — ROUND DUCT (DIAMETER")
- X / X — FLAT OVAL DUCT (MAJOR AXIS" X MINOR AXIS")
- X x X — EXTERIOR RECTANGULAR DUCT
- X"Ø — DOUBLE WALL SPIRAL ROUND DUCT
- X / X — DOUBLE WALL SPIRAL FLAT OVAL DUCT
- MANUAL BALANCING DAMPER
- DUCT TRANSITION, 45° ANGLE
- DUCT TRANSITION, 45° ANGLE RECTANGULAR TO ROUND
- MITERED ELBOW WITH TURNING VANES
- MITERED ELBOW WITHOUT TURNING VANES
- RADIUS ELBOW, 1.5 x DIAMETER RADIUS

MECHANICAL ABBREVIATIONS

AC	AIR CONDITIONER	FCU	FAN COIL UNIT	NC	NOISE CRITERIA
AFF	ABOVE FINISHED FLOOR	FCU	FURNACE AND COIL UNIT	NEC	NATIONAL ELECTRICAL CODE
AHJ	AUTHORITY HAVING JURISDICTION	FD	FIRE DAMPER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS
AHU	AIR HANDLING UNIT	FDD	FABRIC DUCT DIFFUSER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	FPB	FAN POWERED BOX	NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FPM	FEET PER MINUTE		
		FT	FEET	OA	OUTSIDE AIR
B	BOILER			OBD	OPPOSED BLADE DAMPER
BAS	BUILDING AUTOMATION SYSTEM	GPM	GALLON PER MINUTE	OHP	OUTDOOR HEAT PUMP
BTU	BRITISH THERMAL UNIT	GUH	GAS-FIRED UNIT HEATER	OU	OUTDOOR UNIT
BOD	BOTTOM OF DUCT				
BOP	BOTTOM OF PIPE	H	HUMIDIFIER	P	PUMP
BTUH	BRITISH THERMAL UNIT PER HOUR	HP	HEAT PUMP	PD	PRESSURE DROP
BHP	BRAKE HORSEPOWER	HP	HORSEPOWER	PH	PHASE
		HRB	HEAT RECOVERY BOX	PH	PATIO HEATER
C	CHILLER	HSPF	HEATING SEASONAL PERFORMANCE FACTOR	PVC	POLY VINYL CHLORIDE
CD	CONDENSATE DRAIN	HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	PRV	PRESSURE REDUCING VALVE
CFM	CUBIC FEET PER MINUTE	HVLS	HIGH VOLUME LOW SPEED FAN	PSI	POUNDS PER SQUARE INCH
CH	CEILING HEATER	HWP	HEATING WATER PUMP		
CO	CARBON MONOXIDE	HWS	HEATING WATER SUPPLY	RA	RETURN AIR
CO2	CARBON DIOXIDE	HWR	HEATING WATER RETURN	RH	RELATIVE HUMIDITY (%)
COP	COEFFICIENT OF PERFORMANCE			RH	RADIANT HEATER
CRP	CONDENSATE RETURN PUMP	IBC	INTERNATIONAL BUILDING CODE	RH	RANGE HOOD
CT	COOLING TOWER	IMC	INTERNATIONAL MECHANICAL CODE	RH	ROOF HOOD
CU	CONDENSING UNIT	IHP	INDOOR HEAT PUMP	RPM	REVOLUTIONS PER MINUTE
CV	CONSTANT VOLUME	IN	INCHES	RTU	ROOFTOP UNIT
CWP	CHILLED WATER PUMP	INWC	INCHES OF WATER COLUMN	RV	RETURN AIR VALVE
CWS	CHILLED WATER SUPPLY	IU	INDOOR UNIT		
CWR	CHILLED WATER RETURN			S	SUCTION (REFRIGERANT)
		KEF	KITCHEN EXHAUST FAN	SA	SUPPLY AIR
D	DRAIN	KEH	KITCHEN EXHAUST HOOD	SCR	STEAM CONDENSATE RETURN
dB	DECIBEL (SOUND)	KSF	KITCHEN SUPPLY FAN	SEER	SEASONAL ENERGY EFFICIENCY RATIO
DB	DRY BULB	KW	KILOWATT	SP	STATIC PRESSURE
DDC	DIRECT DIGITAL CONTROL			SQFT	SQUARE FEET
DEMO	DEMOLITION	L	LOUVER	S.S.	STAINLESS STEEL
DOAS	DEDICATED OUTSIDE AIR UNIT	L	LIQUID (REFRIGERANT)	STM	STEAM
DP	DIFFERENTIAL PRESSURE	LAT	LEAVING AIR TEMPERATURE	SV	SUPPLY AIR VALVE
DX	DIRECT EXPANSION	LBS	POUNDS		
		LWT	LEAVING WATER TEMPERATURE	T	TEMPERATURE
EA	EXHAUST AIR				
EAT	ENTERING AIR TEMPERATURE	M	MOTORIZED	UH	UNIT HEATER
ECM	ELECTRONICALLY COMMUTATED MOTOR	MAX	MAXIMUM		
EER	ENERGY EFFICIANTCY RATIO	MAU	MAKEUP AIR UNIT	V	VOLTS
EF	EXHAUST FAN	MBD	MANUAL BALANCING DAMPER	VAV	VARIABLE AIR VOLUME
ELEC	ELECTRICAL	MBH	THOUSAND BTUH	VFD	VARIABLE FREQUENCY DRIVE
ERV	ENERGY RECOVERY VENTILATION UNIT	MCA	MINIMUM CURRENT AMPACITY	VRF	VARIABLE REFRIGERANT FLOW
ESP	EXTERNAL STATIC PRESSURE	MIN	MINIMUM		
EUH	ELECTRIC UNIT HEATER	MOCP	MAXIMUM OVER CURRENT PROTECTION	WB	WET BULB
EV	EXHAUST AIR VALVE	MS	MINI SPLIT UNIT	WSHP	WATER SOURCE HEAT PUMP
EWT	ENTERING WATER TEMPERATURE			W/	WITH
EX	EXISTING			W/O	WITHOUT

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We work anywhere it's a good workplace

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STATE OF TEXAS — BOBBY D. RETZLOFF — 134852 — LICENSED PROFESSIONAL ENGINEER
8-8-2025

JSA No: 2025-07

MECHANICAL COVER SHEET

M0.0

FINCHER ENGINEERING
WWW.FINCHERENG.COM
FINCHER ENGINEERING, LLC
TX FIRM #F-16408
5621 114TH ST., SUITE 100
LUBBOCK, TX 79424
PH: 806-701-5109

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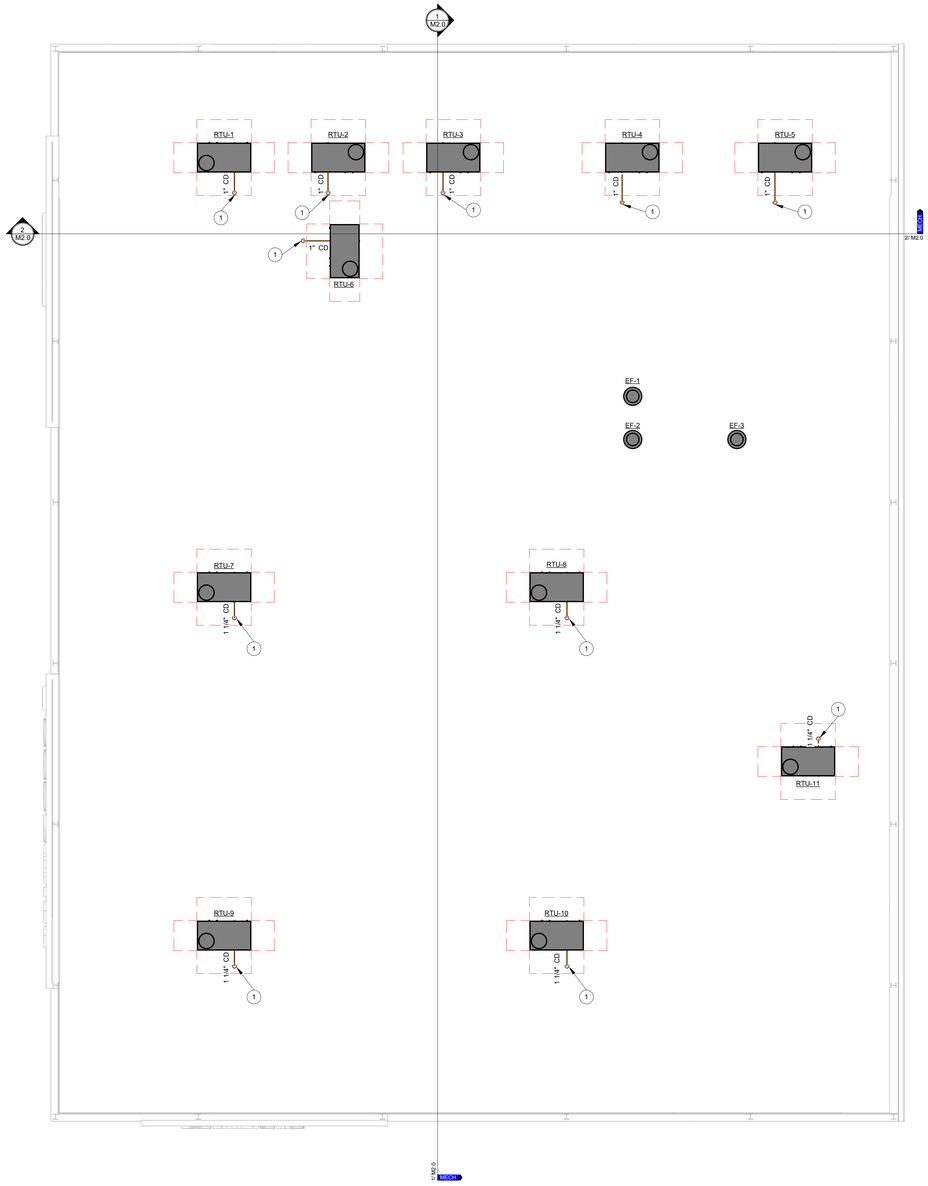
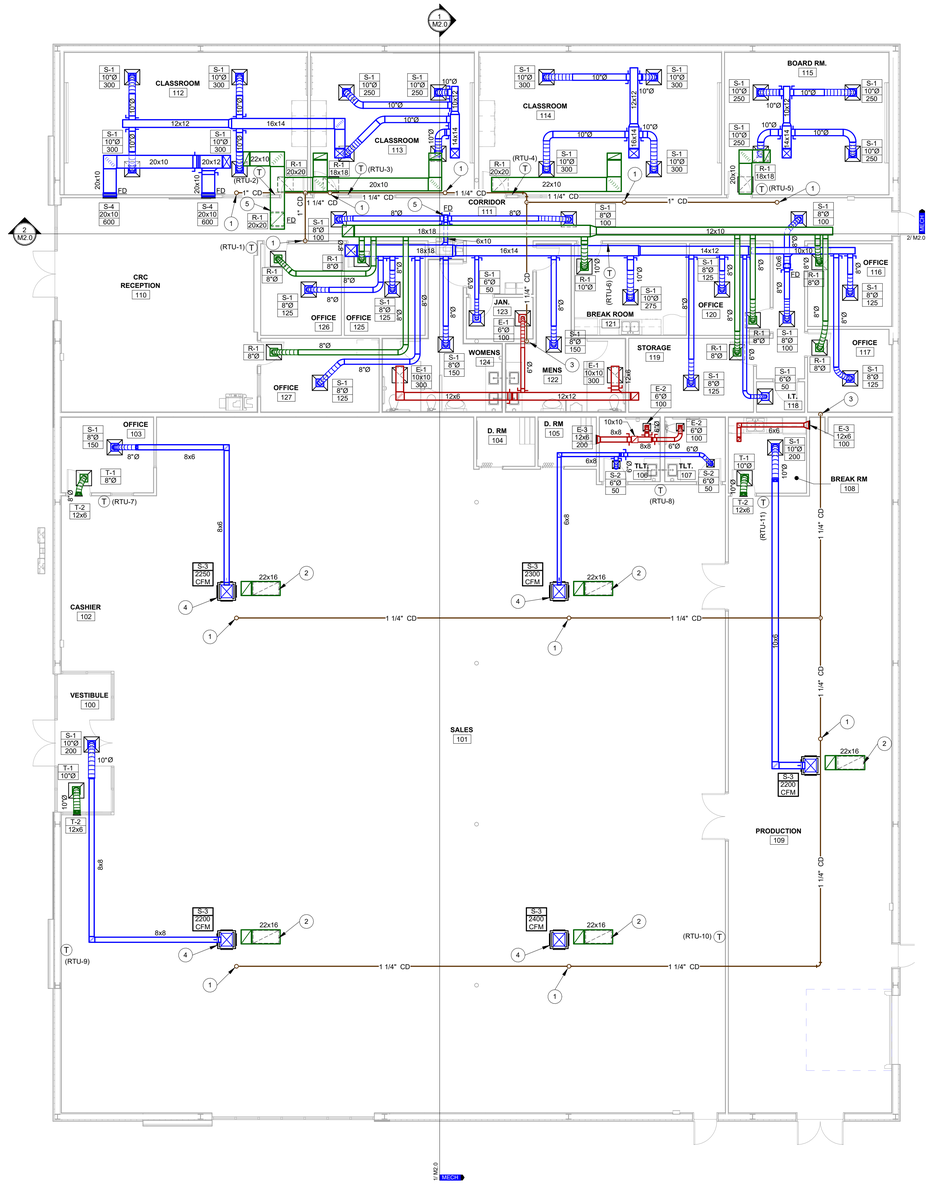


1 ROOF PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"



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

GENERAL NOTES

A. REFER TO SHEET M0.0 FOR ALL GENERAL NOTES APPLICABLE TO THIS SHEET.

KEYED NOTES

1. TURN DRAIN LINE FROM ROOFTOP UNIT DOWN THRU ROOF. REFER TO DETAIL. ROUTE DRAIN LINES AS HIGH AS POSSIBLE IN BUILDING.
2. PROVIDE 20x40 OPENING IN TOP OF 22x16 RETURN DUCT AND COVER WITH 1/2" HARDWARE CLOTH.
3. TURN 1 1/4" CONDENSATE DRAIN DOWN IN WALL TO 16" A.F.F. AND TURN LINE OUT OF WALL TO SPILL TO MOP BASIN. PROVIDE ESCUTCHEON AT WALL PENETRATION.
4. COORDINATE HEIGHT OF DRUM LOUVER DIFFUSER WITH ARCHITECT.
5. PROVIDE 1.5 HOUR HORIZONTAL FIRE DAMPER IN RATED CIELING, REFER TO SECTION VIEWS.

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STATE OF TEXAS
BOBBY D. RETZLOFF
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8-8-2025

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MECHANICAL FLOOR PLANS

M1.0

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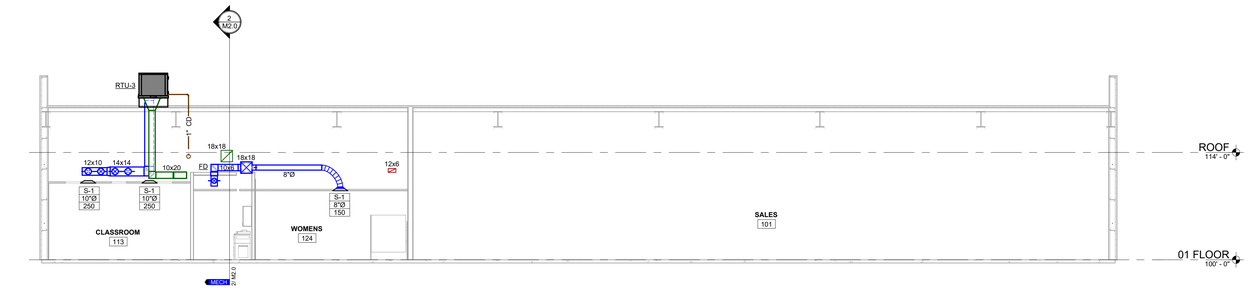
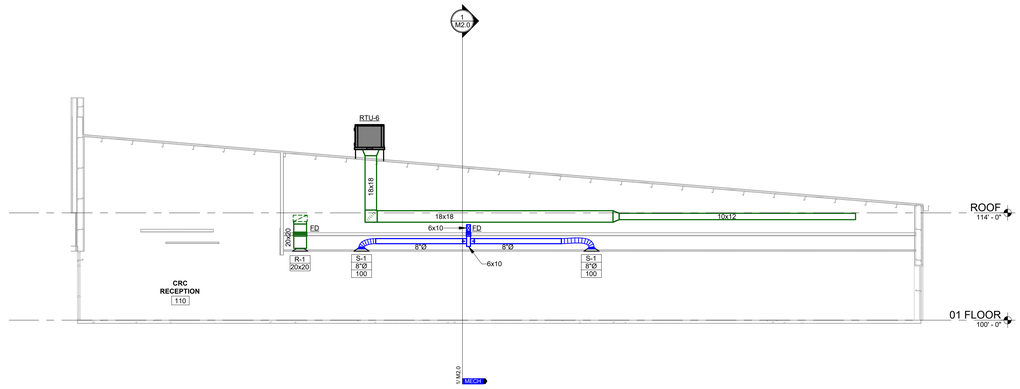


1 MECHANICAL SECTION #1
SCALE: 1/8" = 1'-0"



2 MECHANICAL SECTION #2
SCALE: 1/8" = 1'-0"

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STATE OF TEXAS
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MECHANICAL SECTIONS

M2.0

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ROOFTOP UNIT SCHEDULE (HEAT PUMP)

MARK	SERVES	BASIS OF DESIGN		NOMINAL TONS	FAN DATA						COOLING DATA (DX - R454B)						HEATING DATA (HEAT PUMP WITH ELECTRIC HEAT)						ELECTRICAL DATA			FILTER DATA	CONFIGURATION	WEIGHT (LBS)
		MANUFACTURER	MODEL		CFM	OA CFM	OA CONTROL	ESP	HP	DRIVE	AMBIENT (°F)	EAT (DB/WB)	LAT (DB/WB)	MBH (TOTAL)	MBH (SENS.)	STAGES	SEER2/ EER	AMBIENT (°F)	EAT (DB)	LAT (DB)	MBH (TOTAL)	HSPF2/ COP	ELECTRIC HEAT (KW)	STAGES	VOLTS/ PH	MCA	MOCP			
RTU-1	110 CRC RECEPTION	LENNOX	LHT036H5E	3	1,200	150	CV	0.7"	0.5	ECM	105	77/62	53.5/53.0	28.7	26.6	2	16.0/---	10	62.0	114.4	16.6	7.2 / ---	15.0	1	480/3	33	35	2" MERV 8	VERTICAL	676
RTU-2	112 CLASSROOM	LENNOX	LHT036H5E	3	1,200	150	CV	0.7"	0.5	ECM	105	77/62	53.5/53.0	28.7	26.6	2	16.0/---	10	62.0	114.4	16.6	7.2 / ---	15.0	1	480/3	33	35	2" MERV 8	VERTICAL	676
RTU-3	113 SMALL CLASSROOM	LENNOX	LHT036H5E	3	1,000	125	CV	0.7"	0.5	ECM	105	77/62	53.5/53.0	28.7	26.6	2	16.0/---	10	62.0	114.4	16.6	7.2 / ---	15.0	1	480/3	33	35	2" MERV 8	VERTICAL	676
RTU-4	114 CLASSROOM	LENNOX	LHT036H5E	3	1,200	150	CV	0.7"	0.5	ECM	105	77/62	53.5/53.0	28.7	26.6	2	16.0/---	10	62.0	114.4	16.6	7.2 / ---	15.0	1	480/3	33	35	2" MERV 8	VERTICAL	676
RTU-5	115 BOARD ROOM	LENNOX	LHT036H5E	3	1,000	125	CV	0.7"	0.5	ECM	105	77/62	53.5/53.0	28.7	26.6	2	16.0/---	10	62.0	114.4	16.6	7.2 / ---	15.0	1	480/3	33	35	2" MERV 8	VERTICAL	676
RTU-6	CRC OFFICES	LENNOX	LHT060H5E	5	1,950	250	CV	0.7"	1.0	ECM	105	77/62	53.1/52.8	47.8	44.1	2	15.2/---	10	62.0	100.3	29.4	7.2 / ---	15.0	1	480/3	37	40	2" MERV 8	VERTICAL	717
RTU-7	101 SALES	LENNOX	LHT072H5E	6	2,400	300	CV	0.7"	1.5	DIRECT	105	77/62	53.1/53.0	57.8	54.2	2	---/11.0	10	62.0	104.9	34.5	--- / 3.5	22.5	1	480/3	49	50	2" MERV 8	VERTICAL	721
RTU-8	101 SALES	LENNOX	LHT072H5E	6	2,400	300	CV	0.7"	1.5	DIRECT	105	77/62	53.1/53.0	57.8	54.2	2	---/11.0	10	62.0	104.9	34.5	--- / 3.5	22.5	1	480/3	49	50	2" MERV 8	VERTICAL	721
RTU-9	101 SALES	LENNOX	LHT072H5E	6	2,400	300	CV	0.7"	1.5	DIRECT	105	77/62	53.1/53.0	57.8	54.2	2	---/11.0	10	62.0	104.9	34.5	--- / 3.5	22.5	1	480/3	49	50	2" MERV 8	VERTICAL	721
RTU-10	101 SALES	LENNOX	LHT072H5E	6	2,400	300	CV	0.7"	1.5	DIRECT	105	77/62	53.1/53.0	57.8	54.2	2	---/11.0	10	62.0	104.9	34.5	--- / 3.5	22.5	1	480/3	49	50	2" MERV 8	VERTICAL	721
RTU-11	109 PRODUCTION	LENNOX	LHT072H5E	6	2,400	300	CV	0.7"	1.5	DIRECT	105	77/62	53.1/53.0	57.8	54.2	2	---/11.0	10	62.0	104.9	34.5	--- / 3.5	22.5	1	480/3	49	50	2" MERV 8	VERTICAL	721

NOTES:

A. THE SCHEDULED MODELS, EFFICIENCIES, AND CAPACITIES REPRESENT THE MINIMUM REQUIRED PERFORMACE THAT MUST BE MET. ALTERNATIVES MUST MEET OR EXCEED THE SCHEDULED PERFORMACE DATA. ANY CHANGES TO THE ELECTRICAL POWER REQUIREMENTS DUE TO EQUIPMENT SUBSTITUTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE PROVIDED WITH NO ADDITIONAL COST TO THE OWNER. ACCEPTABLE MANUFACTURERS ARE LENNOX, TRANE, CARRIER, AAON, OR APPROVED EQUAL.

B. ALL SELECTIONS BASED ON JOBSITE ELEVATION.

C. UNIT WEIGHTS DO NOT INCLUDE ROOF CURB.

D. PROVIDE ALL UNITS WITH 3 COMPLETE SETS OF FILTERS: 1 DURING CONSTRUCTION, 1 AT FINAL COMPLETION, AND 1 TO OWNER FOR FIRST FILTER CHANGE AFTER OCCUPANCY.

E. ALL UNITS 2000 CFM AND ABOVE PROVIDED WITH DUCT SMOKE DETECTORS, REFER TO ELECTRICAL.

F. PROVIDE ALL UNITS WITH THE FOLLLOWING ACCESSORIES:

- 7-DAY COMMERCIAL PROGRAMMABLE THERMOSTAT EQUAL TO LENNOX COMFORTSENSE 7500.
- REFRIGERANT DETECTION SYSTEM AND MITIGATION RESPONSE MEETING REQUIREMENTS OF UL 60335-2-40.
- MICROPROCESSOR CONTROLS WITH OVERLOAD PROTECTOIN, VOLTAGE/PHASE DETECTION AND AIRFLOW TEMPERATURE SENSORS IN OA, RA, AND SA.
- LOW AMBIENT KIT DOWN TO 0 DEGREES F.
- HINGED ACCESS PANELS.
- DUAL ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF AND FAULT DETECTION AND DIAGNOSTICS.
- FACTORY INSTALLED DISCONNECT.
- HAIL GUARD.
- UNPOWERED CONVENIENCE OUTLET.
- 14" TALL ROOF CURB (VERIFY COMPATIBILITY WITH ROOF SLOPE AND TYPE)

AIR DISTRIBUTION SCHEDULE

MARK	TYPE	BASIS OF DESIGN		FACE SIZE	LOCATION	FRAME (NOTE C)	FINISH	MATERIAL	MAX NC	MAX PD	DAMPER	PATTERN	DESCRIPTION
		MANUFACTURER	MODEL										
S-1	SUPPLY	TITUS	OMNI	24x24	CEILING	TB	WHITE	STEEL	20	0.08"	NONE	4-WAY	SQUARE PLAQUE DIFFUSER
S-2	SUPPLY	TITUS	OMNI	12x12	CEILING	PF	WHITE	STEEL	20	0.08"	NONE	4-WAY	SQUARE PLAQUE DIFFUSER
S-3	SUPPLY	RUSKIN	DLD2010	---	DUCT	DM	WHITE	ALUMINUM	45	0.42"	NONE	4-WAY	DRUM LOUVER DROP BOX, 30 ° DEFLECTION
S-4	SUPPLY	TITUS	DL	ON PLANS	SIDEWALL	SM	WHITE	ALUMINUM	30	0.08"	NONE	---	DRUM LOUVER GRILLE
R-1	RETURN	TITUS	PAR	24x24	CEILING	TB	WHITE	STEEL	25	0.09"	NONE	PERFORATED	SQUARE PERFORATED GRILLE
E-1	EXHAUST	TITUS	PAR	24x24	CEILING	TB	WHITE	STEEL	25	0.09"	NONE	PERFORATED	SQUARE PERFORATED GRILLE
E-2	EXHAUST	TITUS	PAR	12x12	CEILING	PF	WHITE	STEEL	25	0.09"	NONE	PERFORATED	SQUARE PERFORATED GRILLE
E-3	EXHAUST	TITUS	350RL	ON PLANS	SIDEWALL	SM	WHITE	STEEL	25	0.06"	NONE	---	LOUVERED BLADE GRILLE
T-1	TRANSFER	TITUS	PAR	24x24	CEILING	TB	WHITE	STEEL	25	0.09"	NONE	PERFORATED	SQUARE PERFORATED GRILLE
T-2	TRANSFER	TITUS	350RL	ON PLANS	SIDEWALL	SM	WHITE	STEEL	25	0.06"	NONE	---	LOUVERED BLADE GRILLE

NOTES:

A. BORDER TYPES AND MOUNTING REQUIREMENTS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLAN.

B. PROVIDE TRANSITIONS (INCLUDING SQUARE TO ROUND) WHERE REQUIRED TO TRANSITION FROM DUCT SIZE SHOWN TO AIR DEVICE NECK SIZE.

C. MOUNTING AND FRAMING NOTES:

- TB = LAY-IN DEVICE FOR INSTALLATION IN LAY-IN CEILINGS
- PF = LAY-IN DEVICE WITH MOUNTING FRAME FOR HARD CEILINGS EQUAL TO TITUS RAPID MOUNT FRAME
- DM = AIR DEVICE MOUNTED DIRECTLY TO DUCT OR DUCT TAP AS SHOWN ON DRAWING.
- SM = SURFACE MOUNT FOR MOUNTING DIRECTLY TO CEILING OR SIDEWALL.
- SP = CURVED FACE DIFFUSER/GRILLE FOR MOUNTING DIRECTLY TO SPIRAL DUCTWORK.

EXHAUST FAN SCHEDULE

MARK	TYPE	BASIS OF DESIGN		CFM	ESP	RPM	MOTOR SIZE	MOTOR DRIVE/TYPE	CONTROL	SONES	ELECTRICAL DATA	WEIGHT (LBS)
		MANUFACTURER	MODEL								VOLTS/PH	
EF-1	ROOF DOWNBLAST	GREENHECK	G-099-VG	700	0.7"	1,519	1/4 HP	ECM	TIME CLOCK	9.8	120/1	54
EF-2	ROOF DOWNBLAST	GREENHECK	G-099-VG	400	0.7"	1,366	1/4 HP	ECM	TIME CLOCK	8.0	120/1	54
EF-3	ROOF DOWNBLAST	GREENHECK	G-097-VG	100	0.5"	1,175	1/4 HP	ECM	TIME CLOCK	5.0	120/1	54

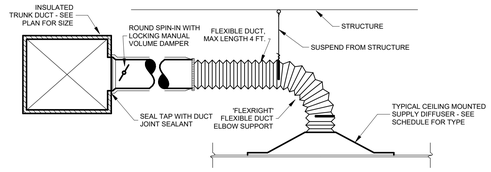
NOTES:

A. ANY CHANGES TO THE ELECTRICAL POWER REQUIREMENTS DUE TO EQUIPMENT SUBSTITUTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE PROVIDED WITH NO ADDITIONAL COST TO THE OWNER. ACCEPTABLE MANUFACTURERS ARE GREENHECK, COOK, PENN BARRY, OR APPROVED EQUAL.

B. ALL SELECTIONS BASED ON JOBSITE ELEVATION.

C. PROVIDE ALL FANS WITH THE FOLLOWING ACCESSORIES:

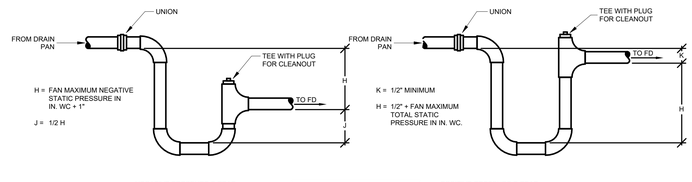
- DISCONNECT SWITCH.
- FAN MOUNTED SPEED CONTROLLER. TEST AND BALANCE CONTRACTOR SHALL ADJUST FAN PERFORMANCE THROUGH THE SPEED CONTROLLER.
- INSULATED HOUSING ON ALL CEILING MOUNTED FANS.
- BACKDRAFT DAMPER.
- 14" TALL ROOF CURB (VERIFY COMPATIBILITY WITH ROOF SLOPE AND TYPE)



SUPPLY AIR DIFFUSER MOUNTING DETAIL

NO SCALE

NOTE: CONNECTIONS OF FLEX DUCT INNER CORE SHALL BE MADE WITH S.S. WORM DRIVE CLAMPS. OUTER INSULATION SHALL BE FITTED OVER CORE CONNECTION AND SECURED WITH S.S. CLAMP.

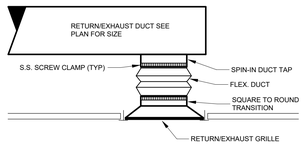


DRAIN SIZE	HVAC EQUIP. TOTAL CFM
3/4"	0 - 800
1"	801 - 2,000
1-1/4"	2,001 - 12,000
1-1/2"	12,001 - 20,000
2"	20,001 - 68,000

CONDENSATE DRAIN DETAIL

NO SCALE

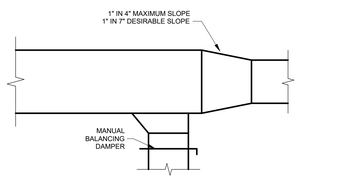
NOTE: CONDENSATE DRAIN SHALL NOT BE SMALLER THAN UNIT CONNECTION.



TYPICAL RETURN/EXHAUST GRILLE CONNECTION DETAIL

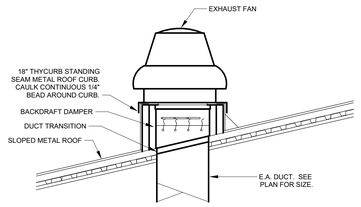
NO SCALE

NOTE: CONNECTIONS OF FLEX DUCT INNER CORE SHALL BE MADE WITH S.S. WORM DRIVE CLAMPS. OUTER INSULATION SHALL BE FITTED OVER CORE CONNECTION AND SECURED WITH S.S. CLAMP.



ANGLE TAP DETAIL

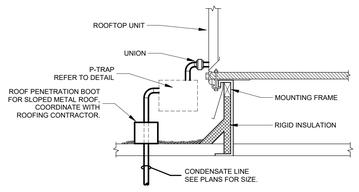
NO SCALE



EXHAUST FAN MOUNTING DETAIL

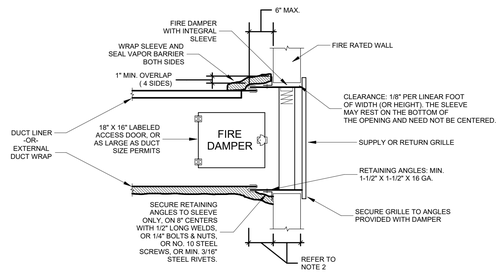
NO SCALE

NOTE: INSTALL CURB AS PER MANUFACTURER'S INSTRUCTIONS
VERIFY ROOF TYPE AND SLOPE WITH ROOF MANUFACTURER



ROOFTOP UNIT DRAIN LINE DETAIL

NO SCALE

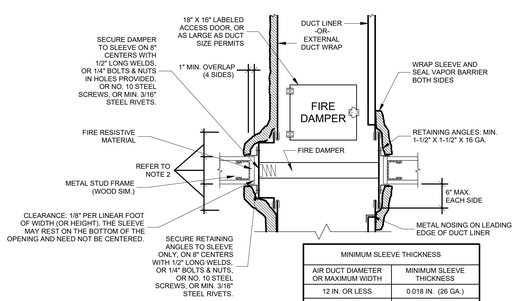


VERTICAL FIRE DAMPER STYLE "G" INSTALLATION

NO SCALE

NOTES:
1. REFER TO SPECIFICATIONS FOR IDENTIFICATION OF DUCT TO BE LINED OR WRAPPED, IF LINED, PROVIDE WRAP ON BOTH SIDES OF SLEEVE AND SEAL VAPOR BARRIER AS SHOWN.
2. VERIFY WALL THICKNESS AND INCREASE SLEEVE LENGTH AS REQUIRED.
3. INSTALLATION SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS TO MAINTAIN UL LISTING.

MINIMUM SLEEVE THICKNESS	
AIR DUCT DIAMETER OR MAXIMUM WIDTH	MINIMUM SLEEVE THICKNESS
12 IN. OR LESS	0.018 IN. (26 GA.)
13 IN. - 30 IN.	0.024 IN. (24 GA.)
31 IN. - 54 IN.	0.030 IN. (22 GA.)
55 IN. - 84 IN.	0.036 IN. (20 GA.)
85 IN. OR MORE	0.047 IN. (18 GA.)

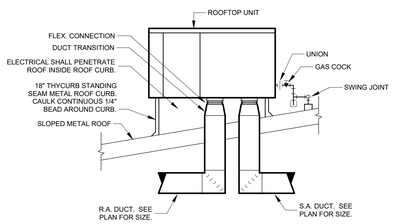


MINIMUM SLEEVE THICKNESS	
AIR DUCT DIAMETER OR MAXIMUM WIDTH	MINIMUM SLEEVE THICKNESS
12 IN. OR LESS	0.018 IN. (26 GA.)
13 IN. - 30 IN.	0.024 IN. (24 GA.)
31 IN. - 54 IN.	0.030 IN. (22 GA.)
55 IN. - 84 IN.	0.036 IN. (20 GA.)
85 IN. OR MORE	0.047 IN. (18 GA.)

HORIZONTAL FIRE DAMPER STYLE "B" INSTALLATION

NO SCALE

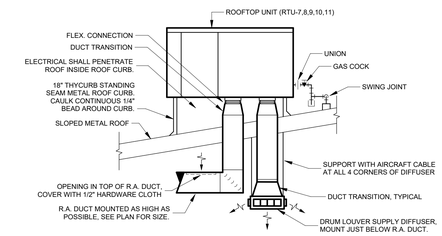
NOTES:
1. REFER TO SPECIFICATIONS FOR IDENTIFICATION OF DUCT TO BE LINED OR WRAPPED, IF LINED, PROVIDE WRAP ON BOTH SIDES OF SLEEVE AND SEAL VAPOR BARRIER AS SHOWN.
2. VERIFY WALL THICKNESS AND INCREASE SLEEVE LENGTH IF REQUIRED.
3. INSTALLATION SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS TO MAINTAIN UL LISTING.



ROOFTOP UNIT MOUNTING DETAIL

NO SCALE

NOTE: INSTALL CURB AS PER MANUFACTURER'S INSTRUCTIONS
VERIFY ROOF TYPE AND SLOPE WITH ROOF MANUFACTURER



ROOFTOP UNIT MOUNTING DETAIL

NO SCALE

NOTE: INSTALL CURB AS PER MANUFACTURER'S INSTRUCTIONS
VERIFY ROOF TYPE AND SLOPE WITH ROOF MANUFACTURER

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Midland - Odessa

GOODWILL INDUSTRIES OF NORTHWEST TEXAS

NEW RETAIL & CAREER RESOURCE CENTER

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TX 79403

Goodwill Industries of Northwest Texas
"The only disability is a bad attitude"

Issue / Revisions:

No	Date	Description
0	08.08.2025	100% CONSTRUCTION DOCUMENTS
1		
2		
3		
4		
5		
6		
7		
8		
9		

STATE OF TEXAS
BOBBY D. RETZLOFF
134852
LICENSED PROFESSIONAL ENGINEER
8-8-2025

JSA No: 2025-07

MECHANICAL SCHEDULES AND DETAILS

M3.0

FINCHER ENGINEERING
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8/7/2025 8:56:11 AM Autodesk Docs://PS-1900 Goodwill Lubbock-PS-1900 Goodwill Lubbock.rvt

PLUMBING FIXTURE SCHEDULE

MARK	REFERENCE IMAGE	FIXTURE SPECIFICATION (FIXTURES ARE EXAMPLES ONLY, EQUAL FIXTURES FROM ALTERNATE MANUFACTURERS IS ACCEPTABLE. REFER TO SPECIFICATION FOR ACCEPTABLE MANUFACTURERS)	FIXTURE CONNECTIONS (RUNOUT LINE SIZES) CW	HW	SS	V
WATER CLOSETS						
WC1		Fixture/Flushvalve: Sloan Model WETS 2020.1001-1.28, 1.28GPF, floor mounted elongated bowl, siphon jet and Sloan Royal 1.28 Quiet Exposed Permex Rubber Diaphragm Type Flushvalve with ADA Non-Hold-Open Handle, Free Spinning Stop Cap, No External Volume Adjustment with bolt covers. TAS compliant Seat: Bemis 1955CT white solid plastic open front.	1-1/2"	___	4"	2"
LAVATORIES						
L1		Fixture: Kohler K-2214, 21" rectangular undermount bathroom sink, vitreous china, with overflow drain. TAS Compliant. Supply: T&S Brass B-2711, 4" Centerset Single Lever Faucet with ½" IPS Male Inlet Shanks, Temperature Limit Stop and Ceramic Cartridge. TAS compliant. Mixing Valve: Provide with TMV mixing valve mounted below deck. Tailpiece: McGuire 155WC Cast Brass Chrome Plated Offset Wheelchair Strainer with polished chrome cast brass elbow and 17 gauge 1-1/4" inch seamless brass offset tailpiece. P-trap: McGuire 8872C-F P-trap shall be chrome plated cast brass body with cleanout, with 17 gauge seamless wall bend, slip nuts and Chrome Plated Forged Brass Set Screw Flange. Stops, risers: McGuire BV2165-F Supply kit shall include commercial pattern chrome plated Quarter-Turn Brass Ball Valve with convertible loose key handle, Chrome Plated copper riser and Chrome Plated Forged Brass Set Screw Flange.	1/2"	1/2"	2"	2"
L2		Fixture: American Standard 9024.004EC, Decorum wall hung lavatory, 20x14, vitreous china, rear overflow, and 4" centers. TAS compliant. Supply: T&S Brass B-2711, 4" Centerset Single Lever Faucet with ½" IPS Male Inlet Shanks, Temperature Limit Stop and Ceramic Cartridge. TAS compliant. Mixing Valve: Provide with TMV mixing valve mounted below deck. Tailpiece: McGuire 155WC Cast Brass Chrome Plated Offset Wheelchair Strainer with polished chrome cast brass elbow and 17 gauge 1-1/4" inch seamless brass offset tailpiece. P-trap: McGuire 8872C-F P-trap shall be chrome plated cast brass body with cleanout, with 17 gauge seamless wall bend, slip nuts and Chrome Plated Forged Brass Set Screw Flange. Stops, risers: McGuire BV2165-F Supply kit shall include commercial pattern chrome plated Quarter-Turn Brass Ball Valve with convertible loose key handle, Chrome Plated copper riser and Chrome Plated Forged Brass Set Screw Flange. Carrier: Mifab #MC-41 floor mounted Lavatory Carrier with concealed arms, leveling and securing screws, rectangular structural uprights and welded feet	1/2"	1/2"	2"	2"
SINKS						
S1		Fixture: Elkay LRAD-3321, 33"x 21-1/4", 6" deep, double compartment with off-center drain outlets, 18 gage type 304 self rimming stainless steel with 3 holes. TAS compliant. Supply: T&S Brass B-2866-05, 8" Center Set widespread Deck Mount Faucet with 4" wrist action handles, swivel gooseneck spout and 2.2GPM aerator. TAS compliant Mixing Valve: Provide with TMV mixing valve mounted below deck. Strainers: McGuire 1151WC, adjustable brass offset sink strainer with 17 gauge seamless brass waste arm and tailpiece, cast brass slip nuts and heavy cast elbow. P-trap: McGuire 8912C-F P-trap shall be chrome plated cast brass body with cleanout, with 17 gauge seamless wall bend, slip nuts and Chrome Plated Forged Brass Set Screw Flange. Stops, risers: McGuire BV2165-F Supply kit shall include commercial pattern chrome plated Quarter-Turn Brass Ball Valve with convertible loose key handle, Chrome Plated copper riser and Chrome Plated Forged Brass Set Screw Flange. Protective Insulation: Plumberex X4333/X4114, Insulate per ADA 4.19.4 and or IBC all exposed lavatories drain piping, hot/cold stops and supplies. Protectors will consist of molded closed cell PVC, with anti-fungal and anti-microbial properties. To be one piece continuous smooth design.	1/2"	1/2"	2"	2"
MOP BASINS						
MB1		Fixture: Acorn TSH-24-SSC-KWG, 24x24x12 precast terrazzo, 3" integral drain body, stainless steel back wall guards, and stainless steel cap. Supply: T&S Brass B-0665-BSTR, Service Sink Faucet with rough chrome finish, built in stops, vacuum breaker, lever handles, wall brace and ¾" garden hose outlet Accessories: T&S Brass B-0653 & B-0654, Reinforced PVC hose and mop hanger	3/4"	3/4"	3"	2"
SPECIALTIES						
TMV		Fixture: A Thermostatic Mixing Valve shall be installed on the hot water supply to the fixture. The valve shall be ASSE Standard 1070 and IAPMO cUPC listed and control the temperature of the hot water. It shall have a Lead Free brass 4-port, "H"pattern body. The valve shall include integral check valves, integral screens, an adjustment nut with locking feature and a vandal resistant lever cover to prevent accidental engagement during normal operating periods. The valve shall be provided with 3/6" male compression fittings. The valve shall be Watts model LFUSG.	LINE SIZE			
HWCP		Fixture: Armstrong Compass H20-20SS with high efficiency ECM motor and 8 modes of control, in stainless steel body and Noryl impeller. The pump shall have a capacity of 5 USgpm against a total head of 12 ft. Stainless steel body Compass is NSF 372 certified, 45 watts max motor at 120V 60 Hz. Install pump supported independently from structure, refer to detail. Control: 7 Day Digital Timer eqal to Taco #265-3 with temperature aquastat equal to Taco 563-2. Contractor shall coordinate with Owner for appropriate programming of circulating pump such that pump is operational during all occupied times.	___	3/4" HC	___	___
HB1		Fixture: Woodford Model 68, automatic draining with ASSE 1052 approved model 50HA high flow double check backflow preventer, 3/4" inlet and outlet. Hardended stainless steel operating stem and one-piece valve plunger to control both flow and drain functions. Exterior finish to be stainless steel. Loose tee key to be furnished with each hydrant.	3/4"	___	___	___
RH1		Fixture: Woodford Model SRH-MS freezeless sanitary roof hydrant, 3/4" hose connection, ASSE 1052 liested, hose connection backflow preventer, and cast iron deck flange. No drain required for this hydrant and draining type hydrants are not acceptable.	3/4"	___	___	___
RB1		Fixture: Guy Gray SSIB1 stainless steel ice maker box with quarter turn valves.	1/2"	___	___	___
IMB1		Fixture: Guy Gray RMDW1AB lead free ice maker outlet box, white powder coated metal, with drain and quarter turn hammer arrester valve.	1/2"	___	2"	2"
FD1		Fixture: Floor Drains shall be coated cast iron, two piece body, non puncturing flashing collar with weep holes and 6" adjustable Stainless Steel Round strainer equal to MIFAB #F1100 Series. Provide all floor drains with trap seal equal to ProSet Trap Guard and install according to manufacturer's instructions.	___	___	3"	2"
AD1		Fixture: Area drains shall be coated cast iron, two-piece deep sump body with integral anchor flange, non-puncturing flashing collar, and primary and secondary weep holes for membrane drainage. Grate shall be 1" thick, 8" square, heavy-duty adjustable tractor grate, hinged and rated for exterior or light vehicular traffic. Area drains shall be equal to MIFAB #F1430C Series. Provide all area drains with trap seal protection equal to ProSet Trap Guard and install according to manufacturer's instructions.	LINE SIZE			
RD		Fixture: Roof Drains shall be coated cast iron with large cast iron locking dome, non puncturing clamp ring with integral gravel stop, large sump, deck clamp assembly and drain receiver. Use adjustable extension (-AE) where required to accommodate insulation of variable thickness. Equal to Mifab #R1200-M-B-U.	LINE SIZE			
OFD		Fixture: Over Flow Roof Drains shall be coated cast iron with large cast iron locking dome, non puncturing clamp ring with integral gravel stop, secured plastic internal water guard for 2" water depth, large sump, deck clamp assembly and drain receiver. Use adjustable extension (-AE) where required to accommodate insulation of variable thickness. Where Over Flow Roof Drain outlet is greater than 6" provide 2" High Cast Iron Solid Clamping Collar (-17). Equal to Mifab #R1200-M-B-U-W2.	LINE SIZE			
DSN		Fixture: Down Spout Nozzle shall be cast bronze with loose wall flange and no-hub or threaded connections Equal to Mifab #R1940-2RB.	LINE SIZE			
CLEANOUTS CO, WCO, DCO		Floor cleanouts in finished floors shall be equal to MIFAB C-1100P-R-3 with stainless steel cover, and ANSI/ASME 5000-7499 lbs. Floor cleanouts in floors with thin flooring shall be equal to MIFAB C1100P-UR-3 with recessed top for flooring and ANIS/ASME 5000-7499 lbs.. Floor cleanouts in tiled floors shall be equal to MIFAB C1100P-TS-3 with square stainless steel Cover, recessed for tile, ANIS/ASME 5000-7499 lbs. Floor cleanouts in carpeted floors shall be equal to MIFAB C1100P-RC-3 with lacquered cast iron body & anchor flange, secondary "O" ring Test Seal, 4" diameter cleanout opening & round nickel bronze scoriated combined cover & plug top assembly with stainless steel vandal proof allen key screws, primary gasket seal and 1 ½" round stainless steel carpet marker. (For membrane floors, add -C for membrane clamp.). Floor cleanouts in unfinished areas shall be equal to MIFAB C1100-XR adjustable floor cleanout with lacquered cast iron body & anchor flange, secondary "O" ring Test Seal, 4" diameter cleanout opening & round heavy duty square scoriated combined cover & plug top assembly with stainless steel vandal proof allen key screws & primary gasket seal. (For membrane floors, add Suffix -C for the membrane clamp.) Exterior cleanouts subject to heavy wheel traffic shall be equal to MIFAB C1300-MF lacquered cast iron heavy duty access housing with fixed anchor flanges, extra heavy duty ductile iron access cover with 6 ½" (165) clear bottom access.. Wall cleanouts shall be concealed behind Stainless Steel access cover with screw equal to Mifab C1400-RD	LINE SIZE UP TO 4"			

PLUMBING GENERAL NOTES

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS IN ADDITION TO THE RELATED MECHANICAL, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, AND CIVIL ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE ENTIRE SCOPE OF THE PROJECT. IN ADDITION, THE CONTRACTOR MUST COORDINATE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.

2. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, NATIONAL, CITY, STATE, AND ANY LOCAL ORDINANCES WHICH MAY BE IN EFFECT. ALL MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS WORK.

3. THE CONTRACTOR SHALL PROVIDED ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM FOR THE BUILDING OWNER. MATERIALS, EQUIPMENT OR LABOR NOT INDICATED, BUT WHICH CAN BE REASONABLY INFERRED TO BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. THE DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT OR LABOR REQUIRED TO PRODUCE A SAFE, COMPLETE AND PROPERLY OPERATING SYSTEM.

4. THE DRAWING SHEETS SHALL BE PRINTED USING THE CORRECT PAPER SIZE IN ORDER FOR ANY SCALED ITEMS TO BE ACCURATE, HOWEVER, THE CONTRACTOR SHALL NOT RELY ON THE SCALED DRAWINGS FOR EXACT MEASUREMENTS. THE LOCATIONS, ARRANGEMENT AND EXTENT OF EQUIPMENT, PIPING, DUCTWORK, AND ITEMS RELATED TO THE INSTALLATION OF THE PLUMBING WORK SHOWN ARE APPROXIMATE. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE.

5. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED MECHANICAL, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR, AND CIVIL ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. SHOULD THE CONTRACTOR REQUIRE FURTHER CLARIFICATION, AN RFI SHALL BE SUBMITTED FOR CLARIFICATION. WHERE CONFLICTS DO EXIST, THE PROJECT ENGINEER OF RECORD, THROUGH THE ARCHITECT, SHALL HAVE SOLE DISCRETION AND RIGHT TO PROVIDE INTERPRETATION OF INTENT OF THE CONTRACT DOCUMENTS AS REQUIRED. THIS INTERPRETATION SHALL SERVE TO DIRECT THE CONTRACTOR IN ACCORDANCE WITH THE IMPLIED INTENT OF THE CONSTRUCTION DOCUMENTS WITHOUT ADDITIONAL COST TO THE PROJECT.

6. THE CONTRACTOR SHALL PROVIDE THE BUILDING OWNER WITH A COMPLETE SET OF "AS BUILT" DRAWINGS SHOWING ALL FIELD MODIFICATIONS THAT DEVIATE FROM THE CONSTRUCTION SET OF PLANS AT THE COMPLETION OF THE PROJECT

7. CONTRACTOR SHALL COORDINATE EXACT UTILITY REQUIREMENTS WITH LOCAL UTILITY COMPANIES PRIOR TO BID AND INCLUDE ALL FEES REQUIRED FOR NEW UTILITY SERVICES TO BUILDING. ALL NEW SERVICES AND TAPS SHALL BE INSTALLED ACCORDING TO STANDARDS AND REQUIREMENTS OF THE LOCAL CITY. VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES AND PIPING AT THE JOBSITE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL UTILITIES PRIOR TO BID. SITE UTILITIES SHOWN ON DRAWING ARE SHOWN BASED ON INFORMATION PROVIDED TO ENGINEER AT THE TIME OF THE PROJECT.

8. ORDER OF PRECEDENCE SHALL BE OBSERVED IN LAYING OUT THE PIPE, DUCTWORK, MATERIAL, AND CONDUIT IN ORDER TO FIT THE MATERIAL INTO THE SPACE ABOVE THE CEILING AND IN THE CHASES AND WALLS. THE FOLLOWING ORDER SHALL GOVERN:
   1. ITEMS AFFECTING THE VISUAL APPEARANCE OF THE INSIDE OF THE BUILDING SUCH AS LIGHTING FIXTURES, DIFFUSERS, GRILLES, OUTLETS, PANELBOARDS, ETC. COORDINATE ALL ITEMS TO AVOID CONFLICTS AT THE SITE.
   2. LINES REQUIRING GRADE TO FUNCTION SUCH AS SEWERS, ROOF DRAINS AND CONDENSATE DRAINS.
   3. LARGE DUCTS AND PIPES WITH CRITICAL CLEARANCES.
   4. FIRE SPRINKLER LINES, CONDUIT, WATER LINES, AND OTHER LINES WHOSE ROUTING IS NOT CRITICAL AND WHOSE FUNCTION WOULD NOT BE IMPAIRED BY BENDS AND OFFSETS.

9. MOUNTING HEIGHT OF ALL PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.

10. ALL PIPING TO BE CONCEALED IN CEILINGS, CHASES, AND FURRED SPACES UNLESS NOTED OTHERWISE.

11. REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE FOR RUNOUT LINE SIZES TO INDIVIDUAL FIXTURES WHERE LINE SIZES ARE NOT INDICATED ON FLOOR PLAN.

12. PROVIDE POINT-OF-USE MIXING VALVE BELOW ALL LAVATORIES AND HAND SINKS AND SET TO PROVIDE MAXIMUM OF 100°F WATER TO HOT WATER SIDE OF ALL FAUCETS. VERIFY MOUNTING LOCATION OF MIXING VALVE WITH OWNER AND WITH ADA CLEARANCE. MIXING VALVE SHALL BE EQUAL TO BRADLEY S59.

13. DURING CONSTRUCTION, ALL FLOOR DRAINS AND OPEN ENDED PIPES SHALL BE COVERED TO PREVENT DEBRIS FROM GETTING INSIDE. THE CONTRACTOR SHALL ALSO PROVIDE TEMPORARY HEATING INSIDE THE BUILDING IF REQUIRED TO AVOID FREEZING OF WATER PIPING SYSTEMS.

14. HANDLE AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS AND IN A MANNER TO PREVENT DAMAGE TO MATERIALS DURING STORAGE AND HANDLING. REPLACE DAMAGED MATERIALS AS NEEDED AT NO ADDITIONAL COST TO THE OWNER. EQUIPMENT AND MATERIALS SHALL NOT BE INSTALLED UNTIL SUCH TIME AS THE ENVIRONMENTAL CONDITIONS OF THE JOB SITE ARE SUITABLE TO PROTECT THE EQUIPMENT OR MATERIALS. PVC PIPING SHALL NOT BE STORED IN THE DIRECT SUNLIGHT, PROVIDE TARPS OR SIMILAR MATERIAL AS NEEDED TO PROTECT PVC PIPING. EQUIPMENT OR MATERIALS DAMAGED, OR WHICH ARE SUBJECTED TO THESE ELEMENTS, ARE UNACCEPTABLE AND SHALL BE REMOVED FROM THE PREMISES AND REPLACED.

15. ROUTE PIPES PARALLEL AND PERPENDICULAR TO THE BUILDING STRUCTURE UNLESS OTHERWISE SHOWN ON PLANS. INSTALL ALL PIPING AS HIGH AS POSSIBLE WITHIN THE AVAILABLE SPACE. PLUMBING EQUIPMENT AND PIPES SHALL BE INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE. INSTALL PIPES TO ALLOW FOR THE REMOVAL OF ALL CEILING TILES, REFER TO ARCHITECTURAL REFLECTED CEILING PLAN. COORDINATE AS REQUIRED TO AVOID CONFLICTS.

16. MAINTAIN MINIMUM 15'-0" SEPARATION BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, AND PLUMBING VENTS.

17. PROVIDE P-TRAP AND CONDENSATE DRAIN LINE AT ALL UNITS, REFER TO DETAILS AND SPECIFICATIONS. CONDENSATE DRAINS SHALL BE ROUTED TO THE NEAREST APPROVED MOP SINK, FLOOR SINK, FLOOR DRAIN, OR OTHER APPROVED RECEPTOR WITH AN INDIRECT CONNECTION AS SHOWN ON PLANS. CONDENSATE SHALL NOT BE ALLOWED TO DRAIN ONTO ANY WALKWAY AREA THAT WOULD CAUSE A NUISANCE.

18. PIPING IS SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR SHALL COORDINATE EXACT ROUTING OF PIPING AT JOBSITE. PROVIDE ALL REQUIRED OFFSETS AND ELBOWS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. CONTRACTOR SHALL UTILIZE THE STRAIGHTEST PIPE ROUTING PATH POSSIBLE TO MINIMIZE UNNECESSARY PRESSURE DROP WITHIN THE SYSTEM.

19. ALL PIPE PENETRATIONS THROUGH WALLS, CEILINGS, FLOORS, AND ROOFS SHALL BE FULLY SEALED APPROPRIATELY. INSTALL SLEEVES FOR PIPING PENETRATIONS FOR RATED WALLS AND FLOORS. INSTALL CHROME PLATED ESCUTCHEONS FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS THAT ARE OPENLY VISIBLE TO BUILDING OCCUPANTS.

20. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURE'S INSTRUCTIONS WITH PROPER SUPPORTS OR MOUNTING DEVICES. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES AROUND EQUIPMENT AT A MINIMUM. DO NOT ROUTE PIPING THROUGH THE SERVICE CLEARANCE AREAS. COORDINATE THESE REQUIREMENTS WITH ALL TRADES IN THE FIELD. ALL PIPING SHALL BE LABELED.

21. ANY COST INCURRED AS A RESULT OF VALUE ENGINEERING OR DEVIATIONS FROM THE BASIS OF DESIGN INDICATED IN THE CONTRACT DOCUMENTS (E.G. ELECTRICAL MODIFICATIONS TO ACCOMMODATE ALTERNATE EQUIPMENT SELECTIONS, DESIGN RELATED EXPENSES FOR REQUIRED DRAWING MODIFICATIONS, ETC.) SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NO INCREASE IN CONTRACT COST WILL BE GRANTED UNLESS APPROVED IN WRITING BY THE OWNER. CONTRACT DOCUMENTS ARE DEFINED TO INCLUDE ALL DISCIPLINES AND DIVISIONS OF THE CONTRACT.

22. ALL INTERIOR EXPOSED PIPING AND EXTERIOR GAS PIPING SHALL BE PRIMED AND PAINTED AS DIRECTED BY ARCHITECT.

23. ALL GAS LINES INSTALLED ABOVE INACCESSIBLE CEILINGS OR IN CHASES/WALLS SHALL BE FULLY WELDED. JOINTS, VALVES, AND THREADED FITTINGS ARE NOT ACCEPTABLE IN THESE AREAS. PROVIDE PVC SLEEVE OF ALL THESE GAS LINES WITH 2" VENT FROM SLEEVE UP THRU ROOF TO 180 DEGREE ELBOW WITH INSECT SCREEN

24. PIPING SHALL NOT BE ROUTED THROUGH ELECTRICAL OR I.T. ROOMS, OR DIRECTLY ABOVE ELECTRICAL PANELS OR ELECTRICAL EQUIPMENT.

25. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS TO ALLOW ACCESS TO VALVES. PROVIDE LABEL ON ACCESS DOOR INDICATED THE EQUIPMENT.

26. ALL PIECES OF EQUIPMENT WITH INDIRECT WASTE LINES SHALL BE PROVIDE AS TYPE L COPPER PIPING AND EXTEND TO SPILL TO FLOOR SINK WITH 1" AIR GAP.

27. PROVIDE RPZ BACKFLOW PREVENTER AT WATER LINE CONNECTIONS TO ALL PIECES OF EQUIPMENT AS REQUIRED BY LOCAL JURISDICTION. ALL WATER LINE CONNECTIONS TO ICE MACHINES, SODA MACHINES, COFFEE MACHINES, AND NON-CARBONATED BEVERAGE DISPENSERS SHALL BE PROVIDED WITH SEPARATE RPZ IN WATER LINE AT EACH PIECE OF EQUIPMENT.

PLUMBING LEGEND

GENERAL SYMBOLS

- XXX-## — PLUMBING FIXTURE OR EQUIPMENT MARK (SEE ABBREVIATION LIST AND SCHEDULES)
- (X) — KEYED NOTE
- CONNECT TO EXISTING
- (X) — REVISION NUMBER
- X / P-XXX — DETAIL REFERENCE; INDICATES THE DETAIL NUMBER; INDICATES THE DRAWING SHEET

PIPE SYMBOLS

RPZ	REDUCED PRESSURE ZONE BFP
VTR	VENT THROUGH ROOF
WCO	WALL CLEANOUT
CO	CLEANOUT
DCO	DOUBLE CLEANOUT
	BALL VALVE
	ELBOW TURNED DOWN
	ELBOW TURNED UP
	FLOW IN DIRECTION OF ARROW
HB	WALL HYDRANT / HOSE BIBB
FD	FLOOR DRAIN
FS	FLOOR SINK
	UNION
VD	VENTURI DEVICE
	CHECK VALVE
	GAS VALVE
	BALANCING VALVE
	STRAINER
M	METER
GR( )	GAS REGULATOR FROM 2 lbs. TO OUNCE PRESSURE UNLESS NOTED OTHERWISE (GAS LOAD IN MBTUH)

PIPING SYSTEMS

EXXX	EXISTING LINE (XX = SYSTEM)
DEMOXX	DEMO LINE (XX = SYSTEM)
CW	DOMESTIC COLD WATER LINE
HW	DOMESTIC HOT WATER LINE
HC	DOMESTIC HOT WATER RECIRCULATION LINE
SS	SANITARY SEWER
V	VENT LINE
G	GAS LINE
F	FIRE PROTECTION LINE
GW	GREASE WASTE LINE
D	DRAIN LINE
CD	CONDENSATE DRAIN LINE
CA	COMPRESSED AIR LINE
MA	MEDICAL AIR LINE
O	OXYGEN LINE
NO	NITROUS OXIDE LINE
VAC	VACUUM LINE
WAGD	WASTE ANESTHESIA DISCHARGE LINE
ESD	ELEVATOR SUMP DISCHARGE LINE
RO	REVERSE OSMOSIS WATER LINE
DI	DE-IONIZED WATER LINE
RD	ROOF DRAIN LINE
SD	STORM DRAIN LINE
OD	OVERFLOW DRAIN LINE
ORD	OVERFLOW ROOF DRAIN LINE

PLUMBING ABBREVIATIONS

AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BF	BOTTLE FILLER
BFC	BELOW FINISHED CEILING
BFP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CO	CLEANOUT
CP	CONDENSATE PUMP
CPVC	CHLORINATED PVC
CU	CONDENSING UNIT
CW	DOMESTIC COLD WATER
D	DRAIN
DCO	DOUBLE CLEANOUT
DI	DE-IONIZED WATER
DEMO	DEMOLITION
ELEC	ELECTRICAL
ESD	ELEVATOR SUMP DISCHARGE
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	FIRE
FCU	FAN COIL UNIT
FCU	FURNACE AND COIL UNIT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FEET
G	GAS
GAL	GALLONS
GPM	GALLON PER MINUTE
GR	GAS REGULATOR
GUH	GAS-FIRED UNIT HEATER
GW	GREASE WASTE
H	HUMIDIFIER
HB	HOSE BIBB
HC	DOMESTIC HOT WATER CIRCULATION
HD	HUB DRAIN
HP	HORSEPOWER
HW	DOMESTIC HOT WATER
HWCP	HOT WATER CIRCULATING PUMP
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IMB	ICE MAKER BOX
IPC	INTERNATIONAL PLUMBING CODE
IN	INCHES
INWC	INCHES OF WATER COLUMN
KW	KILOWATT
L	LAVATORY
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
M	METER
MA	MEDICAL AIR
MAX	MAXIMUM
MB	MOP BASIN
MBH	THOUSAND BTUH
MCA	MINIMUM CURRENT AMPACITY
MECH	MECHANICAL
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NITROUS OXIDE
NTS	NOT TO SCALE
O	OXYGEN
OD	OUTSIDE DIAMETER
OD	OVERFLOW DRAIN
ORD	OVERFLOW ROOF DRAIN
P	PUMP
P	PRESSURE
PD	PRESSURE DROP
PH	PHASE
PEX	CROSS-LINKED POLYETHYLENE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLY VINYL CHLORIDE
RB	REFRIGERATOR BOX
RD	ROOF DRAIN
RH	ROOF HYDRANT
RO	REVERSE OSMOSIS WATER
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE (BFP)
RTU	ROOFTOP UNIT
S	SINK
SD	STORM DRAIN
SQFT	SQUARE FEET
SS	SANITARY SEWER
S.S.	STAINLESS STEEL
T	TEMPERATURE
T&P	TEMPERATURE
U	URINAL
UH	UNIT HEATER
V	VENT
V	VOLTS
VAC	VACUUM
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT
WB	WASHER BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER

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STATE OF TEXAS — BOBBY D. RETZLOFF — 134852 — LICENSED PROFESSIONAL ENGINEER
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JSA No: 2025-07

PLUMBING COVER PAGE

P0.0

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1 PLUMBING PLAN - SANITARY WASTE - FIRST FLOOR
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET P0.0 FOR ALL GENERAL NOTES APPLICABLE TO THIS SHEET.

KEYED NOTES

1. REFER TO CIVIL DRAWINGS FOR CONTINUATION OF 4" SEWER LINE ON SITE. CONTRACTOR SHALL COORDINATE ALL SEWER LINE DEPTHS WITH CIVIL UTILITIES PRIOR TO INSTALLING ANY PIPING.

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FLOOR PLAN - PLUMBING - SEWER AND VENT

P1.0

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GENERAL NOTES

1. REFER TO SHEET P0.0 FOR ALL GENERAL NOTES APPLICABLE TO THIS SHEET.

KEYED NOTES

1. REFER TO CIVIL DRAWINGS FOR CONTINUATION OF 2" WATER LINE ON SITE.
2. VALVE BOX, REFER TO DETAIL.
3. WATER SERVICE ENTRY, TURN 2" CW LINE UP FROM BELOW SLAB TO CW MANIFOLD WITH ZONE VALVE ACCESS PANEL AND RISER, REFER TO DETAIL ON SHEET P2.0. PROVIDE LABELS ON OUTSIDE OF ACCESS PANEL.
4. TURN 3/4" CW AND 3/4" HW LINES DOWN TO SERVE WATER HEATER MOUNTED ABOVE MOP SINK, REFER TO DETAIL. TEE OFF 3/4" CW AND 3/4" HW LINES TO SERVE MOP SINK.
5. TURN 2" CW LINE DOWN ALONG WALL IN JAN. 123 TO ZONE VALVE SERVING CRC, REFER TO WATER HEATER (WH-1) DETAIL ON SHEET P2.0. PROVIDE LABEL ON ZONE VALVE.

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

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FLOOR PLAN - PLUMBING - WATER

P1.1

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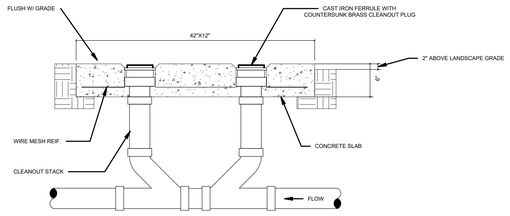
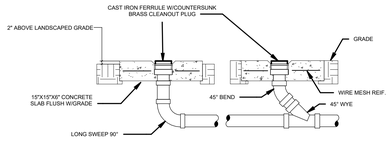


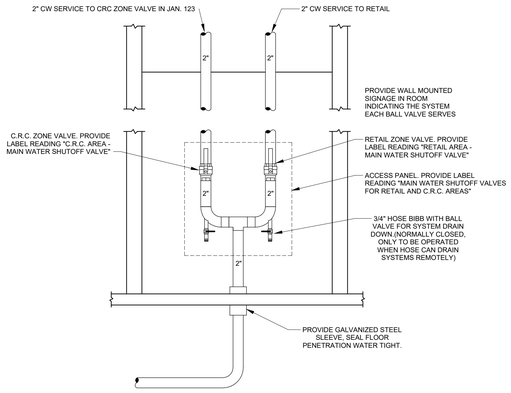
TYPICAL TWO WAY CLEANOUT

NO SCALE



EXTERIOR CLEANOUT DETAIL

NO SCALE



WATER SERVICE ENTRY DETAIL

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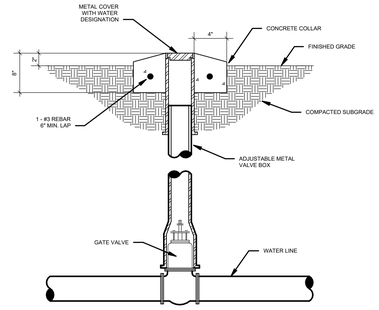
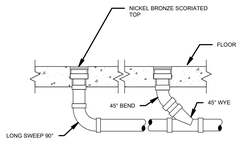


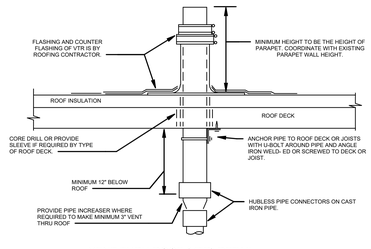
VALVE BOX DETAIL

NO SCALE



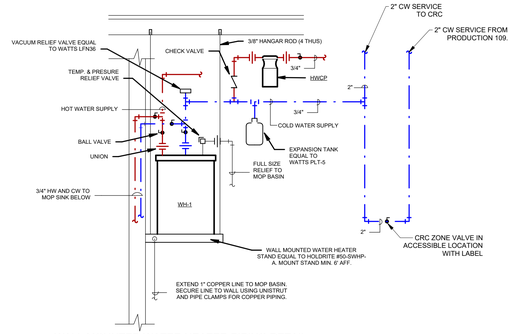
INTERIOR CLEANOUT DETAIL

NO SCALE



VENT THRU ROOF (VTR) DETAIL

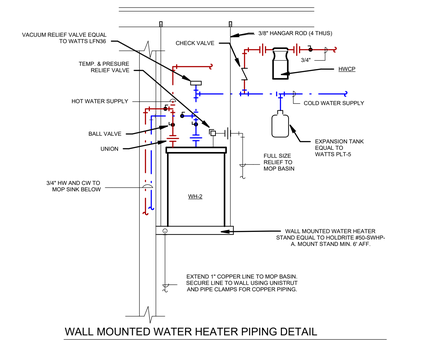
NO SCALE



WALL MOUNTED WATER HEATER PIPING DETAIL

NO SCALE

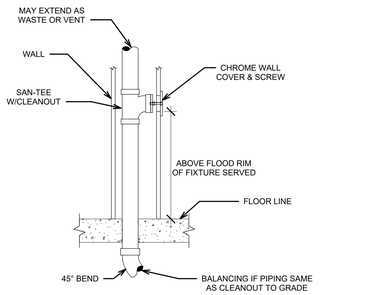
WATER HEATER SCHEDULE						
MARK	TANK CAP.	FUEL	INPUT	RECOVERY GPH	ELECTRICAL DATA	EXAMPLE
WH-1	19 GAL.	ELEC.	2000 W	11 GAL.	208 V, 1Ø, 60 HZ	A.O. SMITH EJCS-20



WALL MOUNTED WATER HEATER PIPING DETAIL

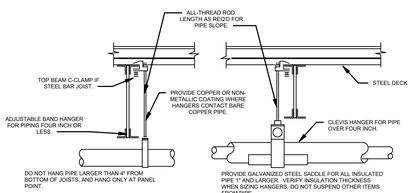
NO SCALE

WATER HEATER SCHEDULE						
MARK	TANK CAP.	FUEL	INPUT	RECOVERY GPH	ELECTRICAL DATA	EXAMPLE
WH-2	19 GAL.	ELEC.	2000 W	11 GAL	208 V, 1Ø, 60 HZ	A.O. SMITH EJCS-20



WALL CLEANOUT DETAIL

NO SCALE

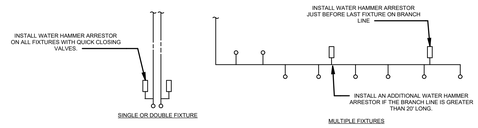


COMMENTS:

1. PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. SLOPE ALL WATER PIPING SLIGHTLY TOWARD DRAINABLE LOCATIONS. HANGER SPACING FOR PIPE SIZE: COPPER: 2"=6' 1.5"=8' 1.25"=7' 1"=6' 75"=6' 75"=5'. CAST IRON: 10' AND ONE NEAR ALL JOINTS. STEEL: 3.5"=12' 3"=11' 2"=10' 1.5"=9' 1"=7' .75"=6' 5"=5'. LOCATE HANGERS AS CLOSE AS POSSIBLE TO CONCENTRATED LOADS SUCH AS VALVES AND EQUIPMENT. SUPPORT VERTICAL PIPE AT EACH FLOOR, IF POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. PROVIDE SEISMIC BRACING AS REQUIRED BY LOCAL AUTHORITIES. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. DO NOT SUSPEND PIPE FROM JOIST BRACING MEMBERS. REFER TO CODES AND SPECIFICATIONS FOR FURTHER INFORMATION.

PIPE HANGER DETAIL

NO SCALE



PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

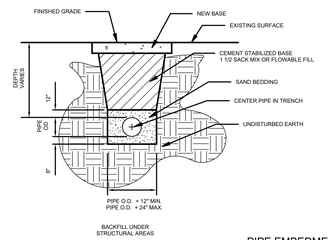
WATER SUPPLY FIXTURE UNIT (WSFU)		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	5	--
URINAL	4	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3

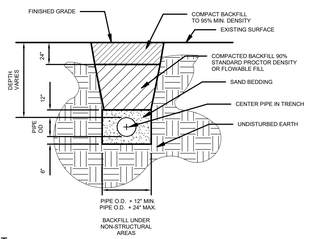
COMMENTS:

1. WATER HAMMER ARRESTORS SHALL HAVE PISTON AND O-RING CONSTRUCTION WITH PDI #WH-201, ASSE # 1010 AND ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. SIZE THE UNITS AS SHOWN PER THE TABLES SHOWN ABOVE.

WATER HAMMER ARRESTER DETAIL

NO SCALE





PIPE EMBEDMENT

NO SCALE

PIPE EMBEDMENT NOTES
A. THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE, A MINIMUM OF 12" WIDER THAN THE UNDISTURBED SIDES OF THE TRENCH, SYMMETRICAL ABOUT THE CENTER-LINE OF THE EXCAVATION.
B. ANY CONCRETE PAVING SHALL BE SAW CUT 6" WIDER THAN UNDISTURBED SIDES OF EXCAVATION.
C. IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX OR FLEXIBLE BASE MATERIAL.
D. ROAD BASE AND SURFACE MATERIALS SHALL BE REPLACED IN KIND OF EQUAL THICKNESS WITH MINIMUM BASE THICKNESS OF 8".
E. INSTALL DETECTOR TAPE AND TRACE WIRE PER SPECIFICATION.

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PLUMBING DETAILS

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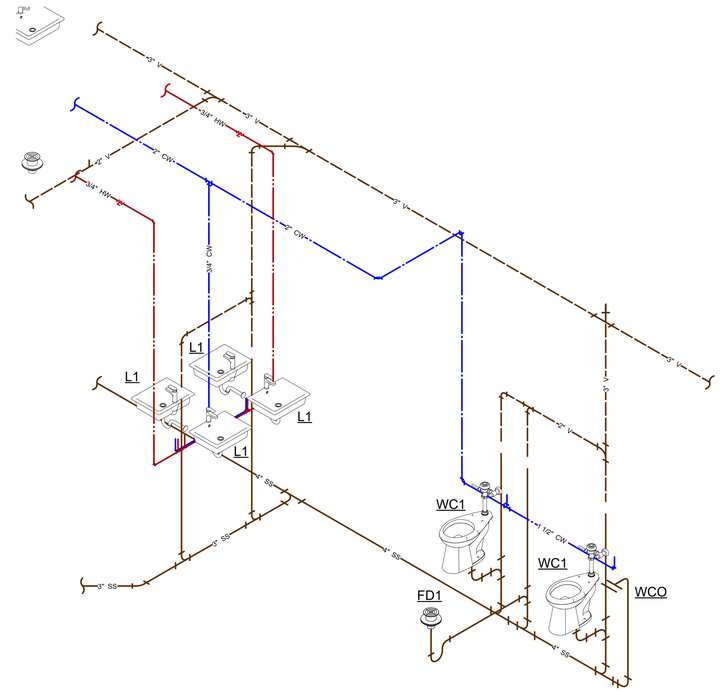
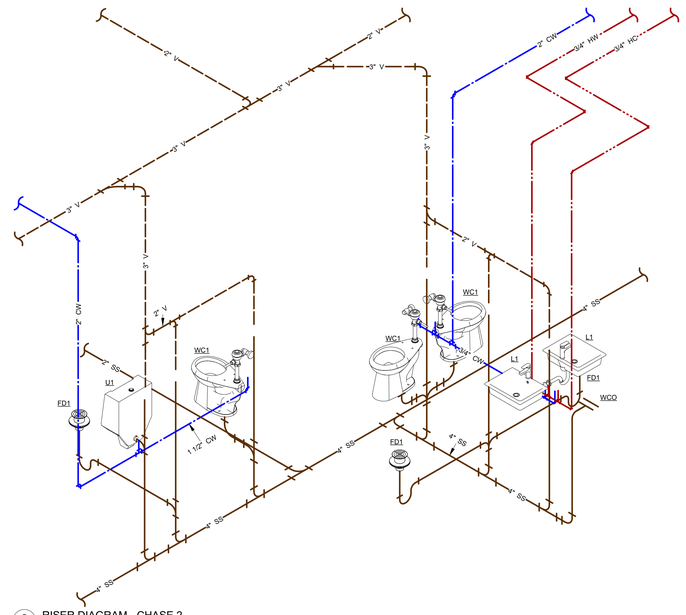


1 RISER DIAGRAM - CHASE 1
SCALE:



2 RISER DIAGRAM - CHASE 2
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PLUMBING RISER DIAGRAMS

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ELECTRICAL SYMBOL SCHEDULE

A	2x4 RECESSED LIGHT FIXTURE	C	CEILING MOUNTED RECEPTACLE
AE	2x4 RECESSED LIGHT FIXTURE WITH BATTERY BACK-UP	WP	DUPLEX RECEPTACLE WITH WEATHER-PROOF COVER
A	SURFACE MOUNTED LIGHT FIXTURE	42"	DUPLEX RECEPTACLE MOUNTED AT INDICATED HEIGHT
AE	SURFACE MOUNTED LIGHT FIXTURE WITH BATTERY BACK-UP		FLOOR MOUNTED DUPLEX RECEPTACLE
A	DOWN LIGHT FIXTURE		COMBINATION FLOOR BOX WITH RECEPTACLES AND DATA INDICATED
AE	DOWN LIGHT FIXTURE WITH BATTERY BACK-UP		DOUBLE DUPLEX RECEPTACLE - 20A, 125V, 2P, 3W, GROUNDING
A	WALL MOUNTED LIGHT FIXTURE	J	JUNCTION BOX
A	WALL MOUNTED LIGHT FIXTURE WITH BATTERY BACK-UP		DISCONNECT SWITCH
X	EXIT SIGN - NUMBER OF FACES INDICATED BY SHADING		CIRCUIT RUN TO PANELBOARD - NUMBER OF WIRES SHOWN
AA	PARKING LOT POLE - NUMBER OF HEADS INDICATED		CIRCUIT INDICATOR
$	SPST WALL SWITCH		SURFACE MOUNTED LIGHTING AND APPLIANCE PANELBOARD
$D	DIMMING SWITCH	UGE	UNDERGROUND ELECTRICAL SERVICE
$O	OCCUPANCY SENSOR SWITCH	UGC	UNDERGROUND COMMUNICATION SERVICE
$3	THREE-WAY SWITCH	M	KWH METER
$4	FOUR-WAY SWITCH		WALL MOUNTED TELEPHONE/DATA OUTLET
OS	OCCUPANCY SENSOR	C	CEILING MOUNTED TELEPHONE/DATA OUTLET
P2	POWER PACK		FLOOR MOUNTED TELEPHONE/DATA OUTLET
TC	TIME CLOCK	TV	TELEVISION OUTLET
	DUPLEX RECEPTACLE - 20A, 125V, 2P, 3W, GROUNDING	FAA	REMOTE FIRE ALARM ANNUNCIATOR PANEL
AC	ABOVE COUNTER (VERIFY WITH ARCHITECTURAL)		DUCT MOUNTED SMOKE DETECTER
GFCI	DUPLEX RECEPTACLE WITH GFCI		

GENERAL NOTES

A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS AS WELL AS ALL ASSOCIATED PROJECT DRAWINGS TO BECOME FAMILIAR WITH THE ENTIRE SCOPE OF THE PROJECT. IN ADDITION, THE CONTRACTOR MUST COORDINATE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT.

B. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, NATIONAL, CITY, STATE, AND ANY LOCAL ORDINANCES WHICH MAY BE IN EFFECT. ALL MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS WORK.

C. THE CONTRACTOR SHALL PROVIDED ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM FOR THE BUILDING OWNER. MATERIALS, EQUIPMENT OR LABOR NOT INDICATED, BUT WHICH CAN BE REASONABLY INFERRED TO BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. THE DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT OR LABOR REQUIRED TO PRODUCE A SAFE, COMPLETE AND PROPERLY OPERATING SYSTEM.

D. HANDLE AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS AND IN A MANNER TO PREVENT DAMAGE TO MATERIALS DURING STORAGE AND HANDLING. REPLACE DAMAGED MATERIALS AS NEEDED AT NO ADDITIONAL COST TO THE OWNER. EQUIPMENT AND MATERIALS SHALL NOT BE INSTALLED UNTIL SUCH TIME AS THE ENVIRONMENTAL CONDITIONS OF THE JOB SITE ARE SUITABLE TO PROTECT THE EQUIPMENT OR MATERIALS. EQUIPMENT OR MATERIALS DAMAGED, OR WHICH ARE SUBJECTED TO THESE ELEMENTS, ARE UNACCEPTABLE AND SHALL BE REMOVED FROM THE PREMISES AND REPLACED.

E. COORDINATE WITH THE UTILITY SERVICE PROVIDERS FOR ALL REQUIREMENTS FOR DELIVERING POWER AND COMMUNICATION UTILITIES.

F. VERIFY ALL ELECTRICAL INSTALLATIONS WITH LOCAL CODES AND CITY ORDINANCES PRIOR TO INSTALLATION.

G. IT IS ASSUMED THAT ANY OUTLET, SWITCH, RECEPTACLE, FIXTURE OR PANEL MAY BE RELOCATED WITHIN A TEN (10) FOOT RADIUS OF THE INDICATED LOCATION WITHOUT ADDITIONAL CHARGE TO THE OWNER.

H. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT POWER REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN. TERMINATE AS DIRECTED BY EQUIPMENT NAME PLATES. COORDINATE EXACT LOCATION FOR INSTALLATIONS WITH OWNER PRIOR TO ROUGH-IN. NOTIFY ENGINEER IF ALTERNATE POWER IS REQUIRED.

I. VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND TEMPERATURE CONTROLS WITH MECHANICAL PLANS. PROVIDE 1" CONDUIT AT EACH THERMOSTAT. REFER TO MECHANICAL PLANS FOR LOCATIONS.

J. PROVIDE DEDICATED NEUTRAL WIRE FOR EACH 120V CIRCUIT BREAKER.

K. PROVIDE MOTOR RATED SWITCHES FOR EACH 120V HVAC CONNECTIONS. OVERLOADS SHALL MATCH MOTOR RATING.

L. CONTRACTOR SHALL PROVIDE NEMA 3R DISCONNECT SWITCHES FOR ALL EXTERIOR HVAC EQUIPMENT. INTERIOR DRY LOCATION DISCONNECT ENCLOSURES SHALL BE RATED NEMA 1.

M. ALL CONDUITS SERVING ROOF-MOUNTED EQUIPMENT SHALL BE EXTENDED INSIDE THE UNIT CURBS TO AVOID ADDITIONAL PITCHPANS. ALL EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL OR LIQUID TIGHT FLEXIBLE CONDUIT AS SPECIFIED.

N. REFER TO AV DRAWINGS FOR ALL COMMUNICATIONS, DATA, LOW VOLTAGE DEVICES, CONDUIT, BACKBOXES, AND INSTALLATION REQUIREMENTS. COORDINATE ALL REQUIREMENTS WITH AV CONSULTANT (ABSOLUTE AVL).

O. WHERE GFCI PROTECTION IS REQUIRED BY CODE AND CONNECTION IS LOCATED BEHIND EQUIPMENT. CONTRACTOR SHALL PROVIDE GFCI CIRCUIT BREAKER IN LIEU OF GFCI OUTLET.

P. VERIFY AND COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL REFLECTIVE CEILING PLAN.

Q. PROVIDE AN UN-SWITCHED HOT (BALLAST/DRIVER) TO ALL EMERGENCY FIXTURES ROUTED THRU LIGHTING CONTROLS TO PROVIDE EMERGENCY OPERATION.

R. PROVIDE DEDICATED NEUTRAL WIRE FOR EACH 120V CIRCUIT BREAKER.

S. LIGHTING CONTROL WIRING SHALL BE ROUTED IN SEPARATE CONDUIT/PATHWAY FROM POWER WIRING.

WIRE AND CONDUIT SIZING CHART

BREAKER	15	20	25	30	35	40	45	50	60	70	80	90	100	125	150	175	200	225	300	400
PHASE	#12	#12	#10	#10	#8	#8	#8	#8	#6	#4	#4	#2	#2	#1	#1/0	#2/0	#3/0	#4/0	#350 KCMIL	#500 KCMIL
NEUTRAL	#12	#12	#10	#10	#8	#8	#6	#6	#6	#4	#4	#2	#2	#1	#1/0	#2/0	#3/0	#4/0	#350 KCMIL	#500 KCMIL
GROUND	#12	#12	#10	#10	#10	#10	#10	#10	#10	#8	#8	#8	#8	#6	#6	#6	#6	#4	#4	#3
CONDUIT	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	2"	2"	2"	2-1/2"	3"	4"

NOTES:
1. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL CONDUCTORS AND CONDUIT SHALL BE SIZED FROM THIS CHART.
2. ALL 120V LIGHTING AND POWER CIRCUITS OVER 75' TO BE #10 THHN.

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8-8-2025

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ELECTRICAL COVER SHEET

E0.0

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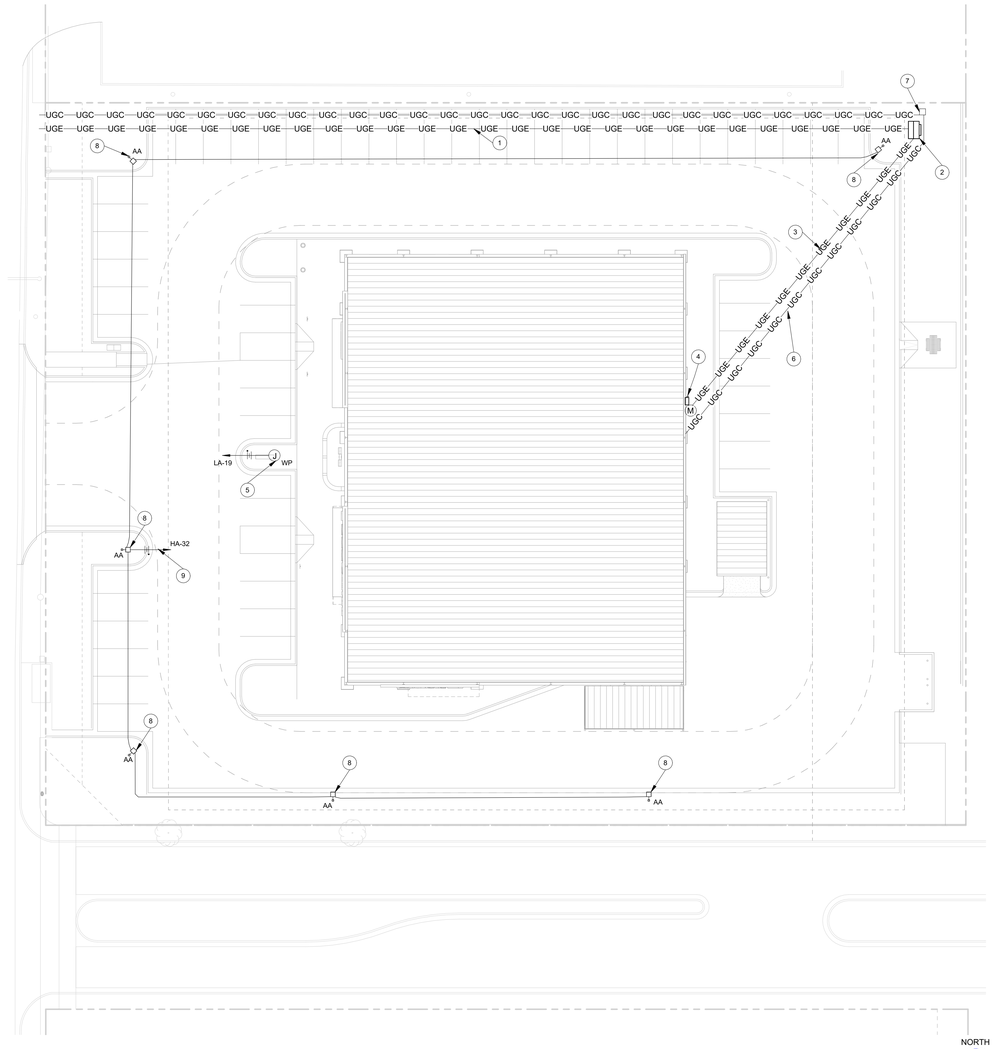


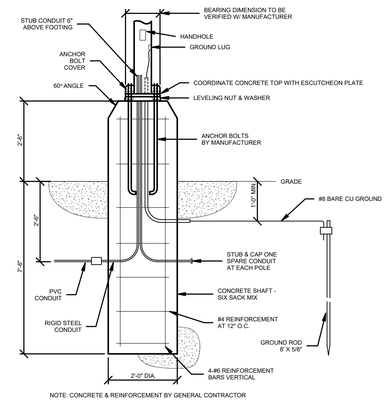
1 SITE PLAN - ELECTRICAL
SCALE: 1" = 20'-0"

GENERAL NOTES

A. REFER TO SHEET E0.0 FOR ALL GENERAL NOTES APPLICABLE TO THIS SHEET.

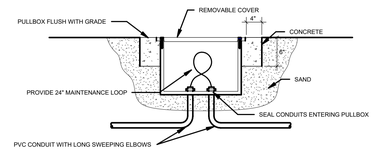
KEYED NOTES

1. UNDERGROUND PRIMARY BY UTILITY COMPANY. PROVIDE EARTHWORK FOR PRIMARY AS REQUIRED BY UTILITY COMPANY.
2. PAD MOUNTED TRANSFORMER BY UTILITY COMPANY. CONCRETE PAD, KWH METER, SECONDARY CONDUIT AND CONDUCTORS BY ELECTRICAL CONTRACTOR AS DIRECTED BY UTILITY COMPANY.
3. UNDERGROUND SERVICE ENTRANCE TO BUILDING. REFER TO ELECTRICAL RISER DIAGRAM.
4. MAIN DISCONNECT, CT CABINET AND KWH METER. REFER TO ELECTRICAL RISER DIAGRAM.
5. WEATHERPROOF JUNCTION BOX TO SERVE MONUMENT SIGN. COORIDNATE LOCATION AND CONNECTION REQUIREMENTS WITH ARCHITECT.
6. PROVIDE (2) 3" CONDUITS WITH PULL STRING FROM COMMUNICATION PULL BOX TO TELEPHONE TERMINAL BOARD TO SERVE TELEPHONE/DATA SERVICE AS DIRECTED BY UTILITY PROVIDERS. COORDINATE WITH UTILITY PROVIDERS PRIOR TO BID.
7. COMMUNICATION PULL BOX. REFER TO DETAIL ON THIS SHEET.
8. NEW POLE MOUNTED LIGHT FIXTURE. REFER TO POLE BASE DETAIL FOR INFORMATION.
9. ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR IN PRODUCTION ROOM.



NOTE: CONCRETE & REINFORCEMENT BY GENERAL CONTRACTOR

CONCRETE POLE BASE DETAIL
NO SCALE



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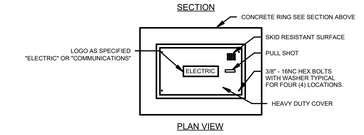

PLAN VIEW

NOTES:
USE PRECAST CONCRETE PULLBOX SIMILAR TO VAUGHN #5 PULLBOX.

GROUND MOUNTED PULLBOX DETAIL
NO SCALE

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SITE PLAN - ELECTRICAL

E1.0

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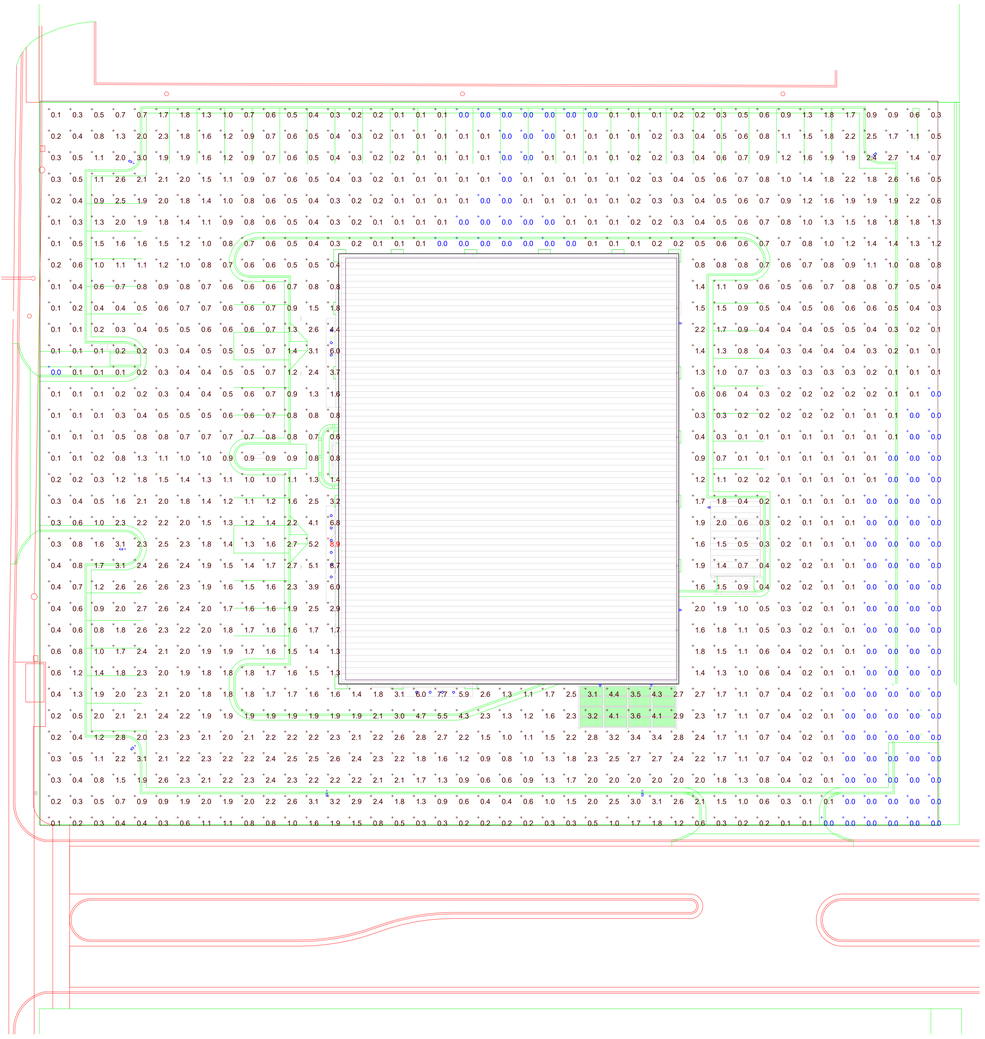
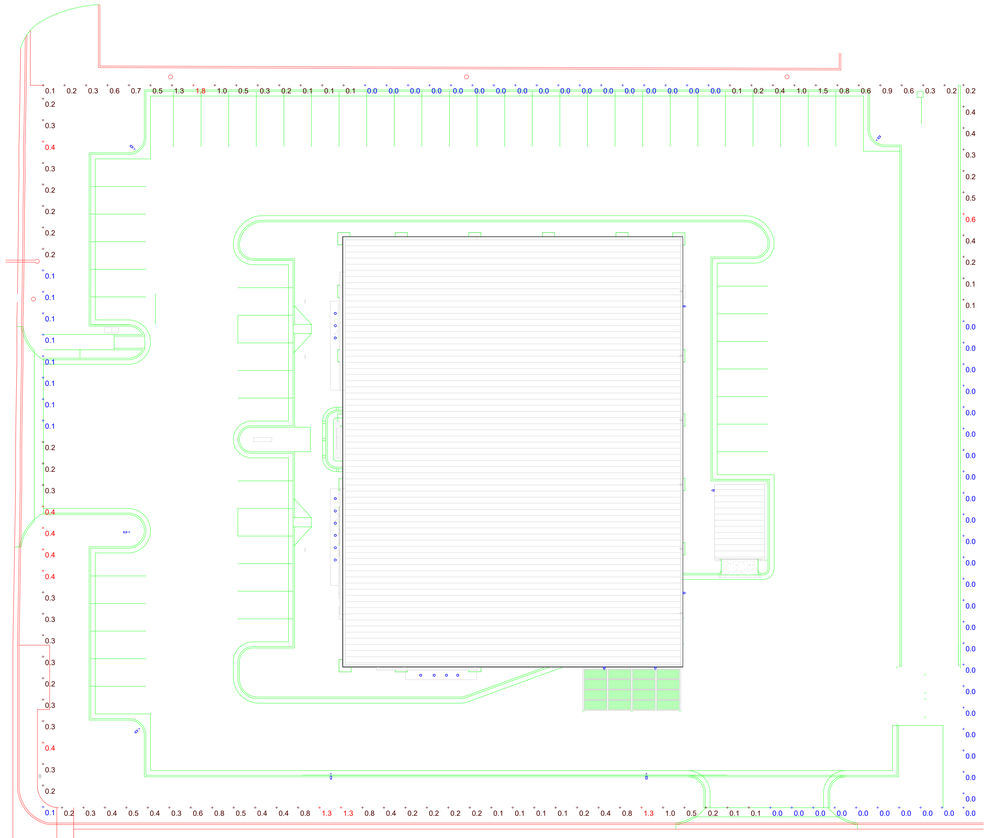


Statistics				
Description	Symbol	Avg	Min	Max
PARKING	+	1.0 fc	0.0 fc	8.9 fc



Statistics				
Description	Symbol	Min	Max	Avg
North	+	0.0 fc	1.8 fc	0.3 fc
South	+	0.0 fc	1.3 fc	0.4 fc
West	+	0.1 fc	0.4 fc	0.2 fc
East	+	0.0 fc	0.6 fc	0.1 fc

Schedule

Symbol	Label	QTY	Manufacturer	Catalog	Description	Input Power
	A	12	COOPER LIGHTING SOLUTIONS - McGRAW-EDISON (FORMERLY EATON)	GALN-SA2C-830-U--T4FT	GALLEON AREA AND ROADWAY LUMINAIRE (2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS	108
	W	10	COOPER LIGHTING SOLUTIONS - McGRAW-EDISON (FORMERLY EATON)	IST-SA1A-830-U-T4W	IMPACT ELITE LED TRAPEZOID LUMINAIRE (1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS	20.1
	J	26	COOPER LIGHTING SOLUTIONS - McGRAW-EDISON	TTN-D0-830-U-MQ	TOPTIER NANO LED PARKING GARAGE LUMINAIRE 3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION	10.7

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SITE PLAN - ELECTRICAL PHOTOMETRICS

E1.1

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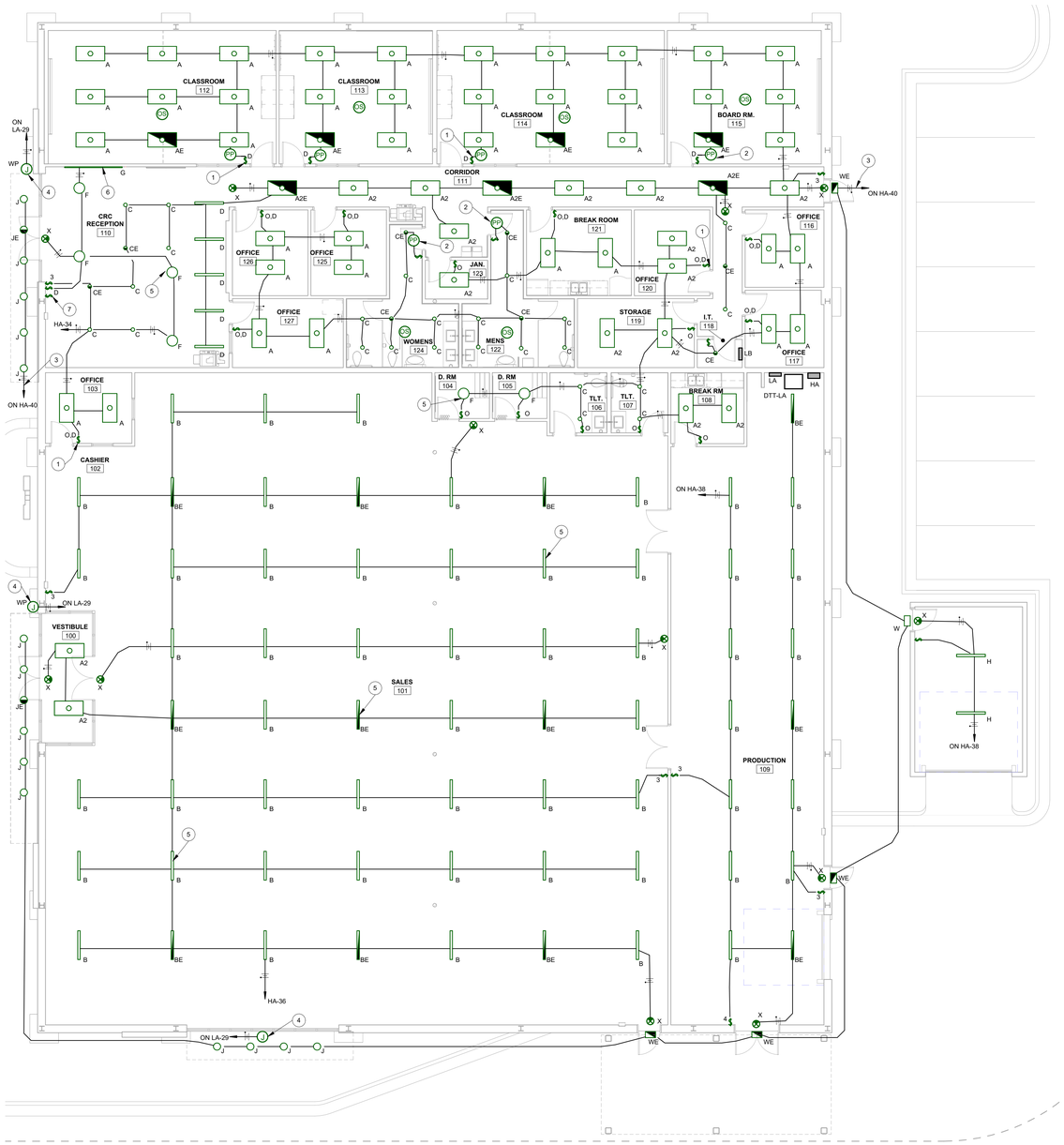

1 FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO SHEET E0.0 FOR ALL GENERAL NOTES APPLICABLE TO THIS SHEET.

KEYED NOTES

1. TYPICAL LOW VOLTAGE LIGHT DIMMER SWITCH WITH 0-10V CONTROL. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.
2. TYPICAL POWER PACK TO OPERATE OCCUPANCY SENSOR AND DIMMER SWITCH. MOUNT POWER PACK ABOVE CEILING.
3. ROUTE CIRCUIT THROUGH 277V EXTERIOR LIGHTING CONTROLS.
4. PROVIDE 120V CONNECTION TO SERVE EXTERIOR SIGNAGE. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH SIGN PROVIDER. ROUTE CIRCUIT THROUGH 120V EXTERIOR LIGHTING CONTROLS.
5. COORDINATE MOUNTING HEIGHT OF SUSPENDED LIGHT FIXTURE WITH ARCHITECT. (TYPICAL)
6. PROVIDE LED STRIP TAPE LIGHT FIXTURE IN EXTRUSION TO BE MOUNTED ON ALL FOUR SIDES OF 2X4 FRAME OF WOODEN SIGN. COORDINATE EXACT LENGTH AND MOUNTING OF STRIP TAPE WITH ARCHITECT AND OWNER. PROVIDE ALL REQUIRED COMPONENTS FOR A COMPLETE SYSTEM.
7. SWITCH SHALL CONTROL STRIP TAPE LIGHT FIXTURE TYPE "G".

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FLOOR PLAN - LIGHTING

E1.2

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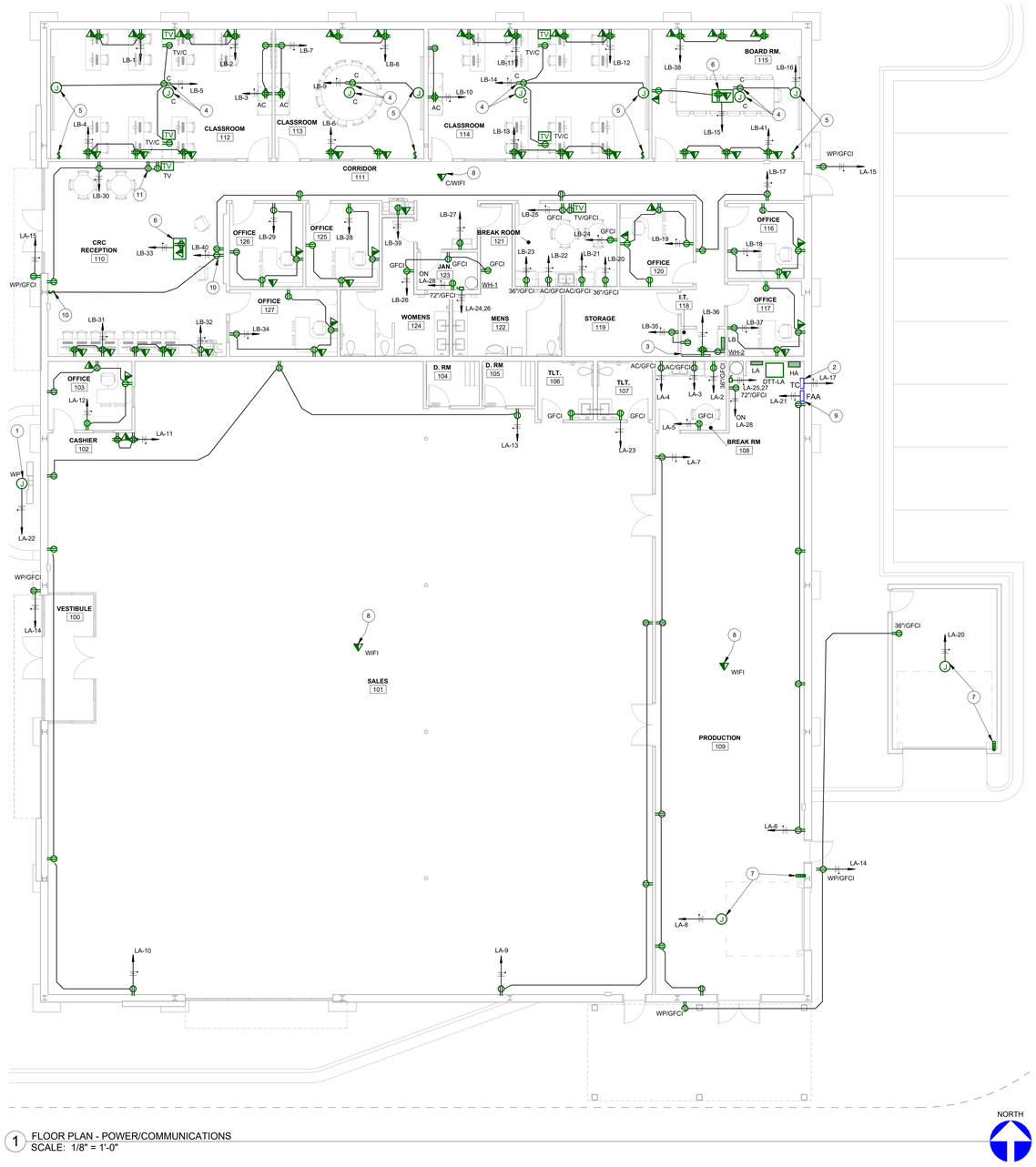

1 FLOOR PLAN - POWER/COMMUNICATIONS
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO SHEET E0.0 FOR ALL GENERAL NOTES APPLICABLE TO THIS SHEET.

KEYED NOTES

1. WEATHERPROOF JUNCTION BOX TO SERVE OWNER PROVIDED SIGN. COORDINATE MOUNTING HEIGHT AND CONNECTION REQUIREMENTS WITH ARCHITECT AND OWNER.
2. INTERMATIC ELECTRONIC TIME SWITCH #ET1105C. TIME CLOCK SHALL CONTROL EXHAUST FAN EF-1, 2, AND 3. COORDINATE TIMER PROGRAMMING WITH OWNER.
3. TELEPHONE TERMINAL BOARD 4' X 8' X 3/4" PLYWOOD. PAINT TO MATCH WALL.
4. CEILING MOUNTED RECEPTACLE AND JUNCTION BOX TO SERVE PROJECTOR. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH ARCHITECT AND OWNER.
5. JUNCTION BOX AND SWITCH TO CONTROL PROJECTION SCREEN. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH ARCHITECT AND OWNER.
6. COMBINATION FLOOR BOX POWER/COMMUNICATION. COORIDNATE EXACT LOCATION WITH ARCHITECT. EXTEND (2) 1" CONDUITS WITH PULL STRING FROM FLOORBOX TO A CCESSIBLE POINT ABOVE CEILING FOR COMMUNICATION WIRING.
7. PROVIDE 120V CONNECTION TO SERVE GARAGE DOOR. COORDINATE CONNECTION REQUIREMENTS AND CONTROLS WITH ARCHITECT AND MANUFACTURER.
8. CEILING MOUNTED DATA SERVING WIFI. COORIDNATE LOCATION AND REQUIREMENTS WITH ARCHITECT AND IT PERSONNEL.
9. PROVIDE (1) 120V STAND ALONE REMOTE ANNUNCIATOR WITH AUDIBLE AND VISUAL INDICATION TO SERVE EACH SET OF DUCT DETECTORS SHOWN ON ROOF PLAN (TOTAL OF 5 ANNUNCIATORS). PROVIDE CONNECTION TO MONITOR DUCT MONTED SMOKE DETECTORS. COORIDNATE LOCATION OF ANNUNCIATOR.
10. SWITCH AND RECEPTACLE TO SERVE OWNER PROVIDED SIGN. COORDINATE LOCATION OF SWITCH AND RECEPTACLE WITH OWNER. COORDINATE CONNECTION REQUIREMENTS WITH OWNER.
11. RECEPTACLE TO SERVE PHONE CHARGER. COORDINATE MOUTNING HEIGHT AND LOCATION WITH ARCHITECT AND OWNER.

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FLOOR PLAN - POWER/COMMUNICATIONS

E1.3

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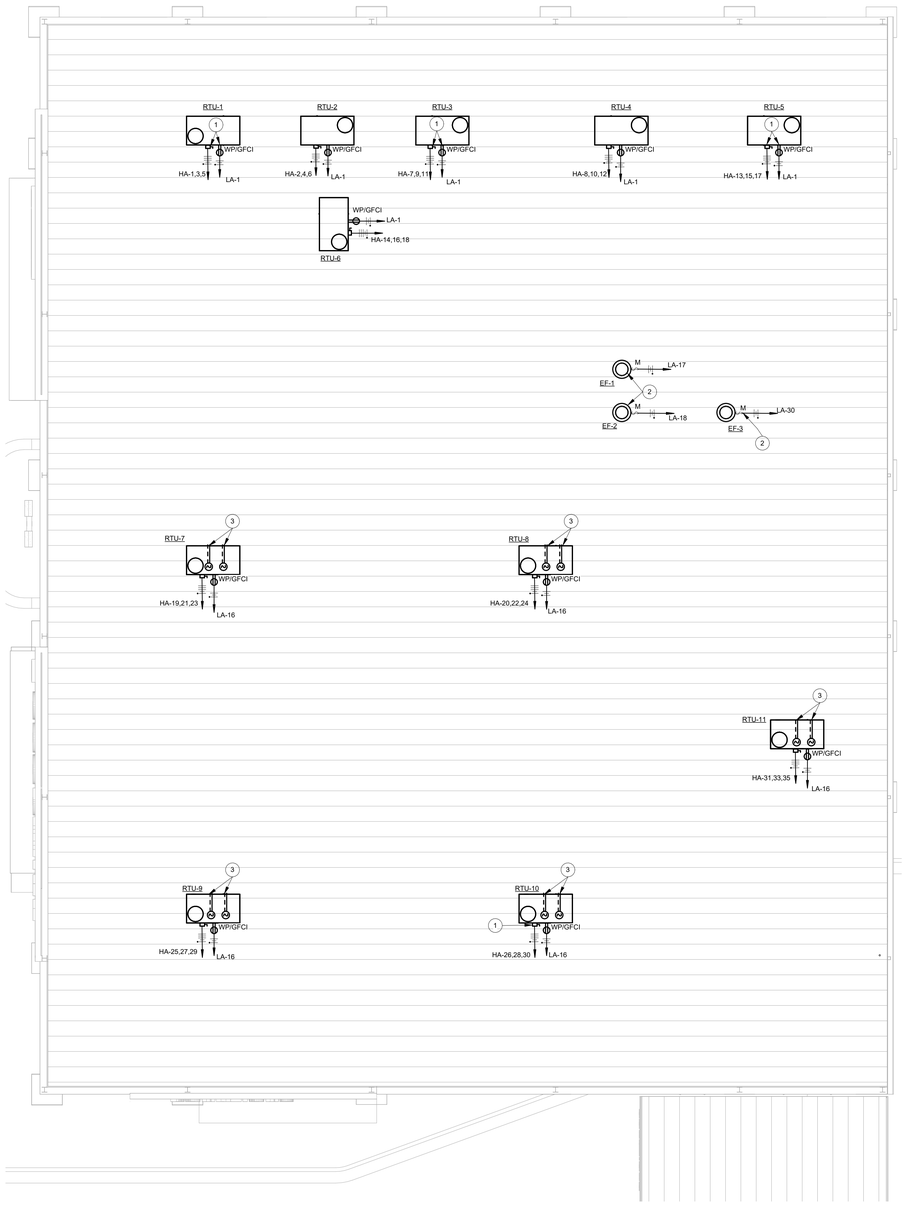

1 ROOF PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO SHEET E0.0 FOR ALL GENERAL NOTES APPLICABLE TO THIS SHEET.

KEYED NOTES

1. DISCONNECT AND RECEPTACLE PROVIDED BY RTU MANUFACTURER. CONTRACTOR SHALL CONNECT DEVICES TO BRANCH CIRCUITS INDICATED ON PLANS. COORDINATE CONNECTION REQUIREMENTS WITH HVAC MANUFACTURER. (TYPICAL)
2. EXHAUST FAN SHALL BE CONTROLLED BY TIME CLOCK LOCATED IN PRODUCTION ROOM. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR.
3. 120V STAND ALONE DUCT MOUNTED SMOKE DETECTORS. PROVIDE REMOTE ANNUNCIATOR WITH TEST/RETEST SWITCH, WITH AUDIBLE/VISUAL (INDICATION) SHOWN ON E1.2. DUCT DETECTORS SHALL BE POWERED BY THE SAME CIRCUIT AS REMOTE ANNUNCIATOR. COORDINATE REQUIREMENTS WITH OWNER. INSTALL DETECTORS AND SAMPLE TUBES ON THE SUPPLY AND RETURN AIR DUCTS OF HVAC UNIT. COORDINATE LOCATION OF DETECTORS WITH HVAC MANUFACTURER. CONNECT DETECTORS TO SHUT DOWN AIR HANDLING UNIT UPON DETECTOR ALARM.

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ROOF PLAN - ELECTRICAL

E1.4

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LIGHT FIXTURE SCHEDULE

MARK	REFERENCE IMAGE	MANUFACTURER	MODEL	DESCRIPTION	MOUNTING	FINISH	TYPE	VOLTS	WATTS	LUMENS	TEMP(°K)	DIMMING	NOTES
A		METALUX	24FP4740C	2'x4' FLAT PANEL	RECESSED	WHITE	LED	277	42	4500	4000	0-10V	
AE		METALUX	24FP4740C EL10W	2'x4' FLAT PANEL WITH EMERGENCY BATTERY	RECESSED	WHITE	LED	277	42	4500	4000	0-10V	
A2		METALUX	24FP3140C	2'x4' FLAT PANEL	RECESSED	WHITE	LED	277	30	3500	4000	0-10V	
A2E		METALUX	24FP3140C EL10W	2'x4' FLAT PANEL WITH EMERGENCY BATTERY	RECESSED	WHITE	LED	277	30	3500	4000	0-10V	
B		METALUX	4T SNLED LD5 65HL LW UNV L840 CD1	4FT LINEAR STRIP LIGHT	PENDANT	WHITE	LED	277	62	6500	4000	0-10V	
BE		METALUX	4T SNLED LD5 65HL LW UNV L840 CD1 EL14W	4FT LINEAR STRIP LIGHT WITH EMERGENCY BATTERY	PENDANT	WHITE	LED	277	62	6500	4000	0-10V	
C		METALUX	HC6 10 D010 HM6 0525 840 61 MD H WF	6" DOWNLIGHT	RECESSED	WHITE	LED	277	10	1000	4000	0-10V	
CE		METALUX	HC6 10 D010 HM6 0525 840 61 MD H WF IEM7	6" DOWNLIGHT WITH EMERGENCY BATTERY	RECESSED	WHITE	LED	277	10	1000	4000	0-10V	
D		LUMENWERX	SQUP D HLO SW 80CRI 500LMF 40K 4FT UNV D1 1NA ACS B	4' LINEAR PENDANT WITH LENS AND HANGING CABLE	PENDANT	MATTE BLACK	LED	277	18	2000	4000	0-10V	
F		SPI LIGHTING	AIP11422 L50W UNV 40K 80CRI KA04 BASE PT11	DRUM PENDANT WITH HANG CABLES AND BLACK FINISH	PENDANT	BLACK	LED	277	20	6000	4000	0-10V	
G		QTL	SC24/5.0 DRY B BW BW BK CL2 XX EXTRUSION: WIDE BK DF	LED STRIP TAPE IN METAL EXTRUSION	SURFACE	BLACK	LED	277	5W/FT	126LM/FT	4000	N/A	PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
H		METALUX	4SNLED LD5 33SL LW UNV L840 CD 1	4' LED STRIP LIGHT	SURFACE	WHITE	LED	277	28	3500	4000	0-10V	
J		MCGRAW-EDISON	TTN D0 830 U MQ BK	LED CANOPY LIGHT	SURFACE	BLACK	LED	277	10	1000	3000		
JE		MCGRAW-EDISON	TTN D0 830 U MQ BK	LED CANOPY LIGHT	SURFACE	BLACK	LED	277	10	1000	3000		PROVIDE EVENLITE INVERTER: MIP100(OR APPROVED EQUAL) TO SERVE LIGHT FIXTURE. FIELD COORDINATE EXACT LOCATION OF INVERTER WITH ARCHITECT.
W		MCGRAW-EDISON	IST SA1 A 830 U T4W BK	TRAPEZOIDIAL WALL PACK	WALL	BLACK	LED	277	20	2800	3000		
WE		MCGRAW-EDISON	IST SA1 A 830 U T4W BK CBP	TRAPEZOIDIAL WALL PACK WITH EMERGENCY BATTERY	WALL	BLACK	LED	277	20	2800	3000		
X		SURELITES	APXRG SD	SINGLE FACED EXIT SIGN WITH EMERGENCY BATTERY	SURFACE	WHITE	LED	277	2	N/A	N/A	N/A	
AA		MCGRAW-EDISON	GALN SA2 C 830 U T4FT BK MA1026-XX	SINGLE HEADED LIGHT POLE	POLE	BLACK	LED	277	108	14,107	3000	NA	

LIGHT FIXTURE SCHEDULE GENERAL NOTES

A. COORDINATE/CONFIRM ALL FIXTURE FINISHES WITH ARCHITECT DURING SUBMITTAL STAGE.

B. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT FIXTURE LOCATIONS.

Fault Current

Project Name: Goodwill
Project Number:
Designed By: Fincher Engineering
Item Name: AIC
Notes: -NONE-

Calculation of Fault Current
Fault SCA Source = TA Primary Infinite
SCA Available = Infinite
Length Units = Feet
Motor Load = None
Motor SCA = None
Motor SCA Treatment = Motor SCA Not Included
System Voltage = 480
System Phase = 3 Phase

Transformers

	Name	PH	Size	Pri.V	Sec.V	%Z	SCA,3PH
TA	Utility						
		3-PH	150	13200	480	1.6	11,277

	Name	Cond	Cable	Size	Qty	Feet	SCA,3PH
SF	Main						
		RGS	1/c,CU	350	2	125	9,989

Main Feeders

	Name	Cond	Cable	Size	Qty	Feet	SCA,3PH
F1	Panel HA						
		EMT	1/c,CU	350	2	15	9,854

File Name: E:\25-030 (Goodwill Lubbock)\Electrical\AIC.edr

Date Created: 4/24/2025 2:14:42 PM
Date Modified: 4/24/2025 2:22:06 PM

Source: EDR, Electrical Designer's Reference
Software Version: 11.4 (Build 1). Based on the NEC®.
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Branch Panel: HA

MOUNTING: Surface
480/277 Wye 3 PHASE 4 WIRE

MAINS 600 A **MLO**
BUS 600 **AMPS**
MINIMUM AIC. 14000 **AMPS**

Note	DESCRIPTION	BKR	CKT NO.	A	B	C	A	B	C	CKT NO.	BKR	DESCRIPTION	Note
	RTU-1	35 A	1	9141			9141			2	35 A	RTU-2	
	--	--	3		9141			9141		4	--	--	
	--	--	5			9141			9141	6	--	--	
	RTU-3	35 A	7	9141			9141			8	35 A	RTU-4	
	--	--	9		9141			9141		10	--	--	
	--	--	11			9141			9141	12	--	--	
	RTU-5	35 A	13	9141			10249			14	40 A	RTU-6	
	--	--	15		9141			10249		16	--	--	
	--	--	17			9141			10249	18	--	--	
	RTU-7	50 A	19	13573			13573			20	50 A	RTU-8	
	--	--	21		13573			13573		22	--	--	
	--	--	23			13573			13573	24	--	--	
	RTU-9	50 A	25	13573			13573			26	50 A	RTU-10	
	--	--	27		13573			13573		28	--	--	
	--	--	29			13573			13573	30	--	--	
	RTU-11	50 A	31	13573			648			32	20 A	LIGHTING	
	--	--	33		13573			3126		34	20 A	LIGHTING	
	--	--	35			13573			3175	36	20 A	LIGHTING	
	Space	--	37	--			995			38	20 A	LIGHTING	
	Space	--	39		--			285		40	20 A	LIGHTING	
	Space	--	41			--			0	42	20 A	Spare	
	Space	--	43	--			0			44	20 A	Spare	
	Space	--	45		--			0		46	20 A	Spare	
	Space	--	47			--			0	48	20 A	Spare	
	Space	--	49	--			--			50	--	Space	
	Space	--	51		--			--		52	--	Space	
	Space	--	53			--			--	54	--	Space	
	Space	--	55	--			--			56	--	Space	
	Space	--	57		--			--		58	--	Space	
	Space	--	59			--			--	60	--	Space	
	Space	--	61	--			--			62	--	Space	
	Space	--	63		--			--		64	--	Space	
	Space	--	65			--			--	66	--	Space	
	Space	--	67	--			--			68	--	Space	
	Space	--	69		--			--		70	--	Space	
	Space	--	71			--			--	72	--	Space	
	DTT-LA	100 A	73	16070			0			74	100 A	Spare	
	--	--	75		10520			0		76	--	--	
	--	--	77			13810			0	78	--	--	
	SPD	--	79	--			0			80	225 A	Space	
	--	--	81		--			0		82	--	--	
	--	--	83			--			0	84	--	--	

CONNECTED LOAD: 420,086 VA
PHASE A: 141,532 VA **AMPS** 513 A
PHASE B: 137,750 VA **AMPS** 497 A
PHASE C: 140,804 VA **AMPS** 510 A

NOTES:
1. PROVIDE INTEGRAL MOUNTED SURGE PROTECTION DEVICE(SPD) 180KA. MODES: L-L, L-G, L-N, N-G

Branch Panel: LA

MOUNTING: Surface
120/208 Wye 3 PHASE 4 WIRE

MAINS 225 A **MCB**
BUS 225 **AMPS**
MINIMUM AIC. 10000 **AMPS**

Note	DESCRIPTION	BKR	CKT NO.	A	B	C	A	B	C	CKT NO.	BKR	DESCRIPTION	Note
	RTU RECEPTACLE	20 A	1	1080			180			2	20 A	FRIDGE	
	RECEPTACLE	20 A	3		180			180		4	20 A	RECEPTACLE	
	RECEPTACLE	20 A	5			180			720	6	20 A	RECEPTACLE	
	RECEPTACLE	20 A	7	900			500			8	20 A	GARAGE DOOR	
	RECEPTACLE	20 A	9		540			540		10	20 A	RECEPTACLE	
	RECEPTACLE	20 A	11			720			720	12	20 A	RECEPTACLE	
	RECEPTACLE	20 A	13	540			720			14	20 A	RECEPTACLE	
	RECEPTACLE	20 A	15		360			900		16	20 A	RTU RECEPTACLE	
	EF-1/TC	20 A	17			700			700	18	20 A	EF-2/TC	
	MONUMENT SIGN	20 A	19	500			500			20	20 A	GARAGE DOOR	
	FAA/DUCT	20 A	21		200			200		22	20 A	SIGN	
	RECEPTACLE	20 A	23			360			1000	24	20 A	WH-1	
	WH-2	20 A	25	1000			1000			26	--	--	
	--	--	27		1000			360		28	20 A	RECIRC PUMP	
	SIGNS	20 A	29			300			700	30	20 A	EF-3/TC	
	Spare	20 A	31	0			0			32	20 A	Spare	
	Spare	20 A	33		0			0		34	20 A	Spare	
	Spare	20 A	35			0			--	36	--	Space	
	PANEL LB	100 A	37	9150			--			38	--	Space	
	--	--	39		6060			--		40	--	Space	
	--	--	41			7710			--	42	--	Space	

CONNECTED LOAD: 40,400 VA
PHASE A: 16,070 VA **AMPS** 138 A
PHASE B: 10,520 VA **AMPS** 88 A
PHASE C: 13,810 VA **AMPS** 119 A

NOTES:

Branch Panel: LB

MOUNTING: Surface
120/208 Wye 3 PHASE 4 WIRE

MAINS 225 A **MLO**
BUS 225 **AMPS**
MINIMUM AIC. 10000 **AMPS**

Note	DESCRIPTION	BKR	CKT NO.	A	B	C	A	B	C	CKT NO.	BKR	DESCRIPTION	Note
	RECEPTACLE	20 A	1	720			720			2	20 A	RECEPTACLE	
	RECEPTACLE	20 A	3		540			1080		4	20 A	RECEPTACLE	
	PROJ/RECEP	20 A	5			690			720	6	20 A	RECEPTACLE	
	RECEPTACLE	20 A	7	540			720			8	20 A	RECEPTACLE	
	PROJECTOR	20 A	9		330			540		10	20 A	RECEPTACLE	
	RECEPTACLE	20 A	11			720			720	12	20 A	RECEPTACLE	
	RECEPTACLE	20 A	13	1080			690			14	20 A	PROJ/RECEP	
	RECEPTACLE	20 A	15		540			330		16	20 A	PROJ/RECEP	
	RECEPTACLE	20 A	17			900			720	18	20 A	RECEPTACLE	
	RECEPTACLE	20 A	19	720			180			20	20 A	VENDING MACHINE	
	RECEPTACLE	20 A	21		180			180		22	20 A	RECEPTACLE	
	FRIDGE	20 A	23			180			180	24	20 A	RECEPTACLE	
	RECEPTACLE	20 A	25	360			540			26	20 A	RECEPTACLE	
	WTR COOLER	20 A	27		180			720		28	20 A	RECEPTACLE	
	RECEPTACLE	20 A	29			720			720	30	20 A	RECEPTACLE	
	RECEPTACLE	20 A	31	720			900			32	20 A	RECEPTACLE	
	RECEPTACLE	20 A	33		360			720		34	20 A	RECEPTACLE	
	RECEPTACLE	20 A	35			360			540	36	20 A	RECEPTACLE	
	RECEPTACLE	20 A	37	720			540			38	20 A	RECEPTACLE	
	PRINTER	20 A	39		180			180		40	20 A	SIGN	
	RECEPTACLE	20 A	41			540			0	42	20 A	Spare	
	Spare	20 A	43	0			0			44	20 A	Spare	
	Spare	20 A	45		0			0		46	20 A	Spare	
	Spare	20 A	47			0			0	48	20 A	Spare	
	Spare	20 A	49	0			0			50	20 A	Spare	
	Spare	20 A	51		0			0		52	20 A	Spare	
	Space	--	53			--			--	54	--	Space	
	Space	--	55	--			--			56	--	Space	
	Space	--	57		--			--		58	--	Space	
	Space	--	59			--			--	60	--	Space	

CONNECTED LOAD: 22,920 VA
PHASE A: 9,150 VA **AMPS** 78 A
PHASE B: 6,060 VA **AMPS** 51 A
PHASE C: 7,710 VA **AMPS** 66 A

NOTES:

GENERAL NOTES

A. COORDINATE ALL SITE CONDITIONS PRIOR TO BID.

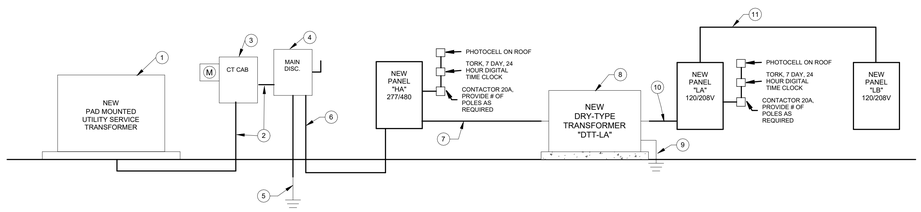
B. COORDINATE ALL ELECTRICAL UTILITY REQUIREMENTS WITH UTILITY COMPANY PRIOR TO BID.

C. ALL ELECTRICAL ITEMS TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL ORDINANCES AND CODES.

D. ALL METERING REQUIREMENTS MUST BE COORDINATED WITH UTILITY COMPANY PRIOR TO BID INCLUDE ALL CT'S, CABINET AND BASES AS DIRECTED BY UTILITY COMPANY.

KEYED NOTES

1. PAD MOUNTED UTILITY TRANSFORMER BY UTILITY COMPANY.
2. 2 SETS OF (4) #350 KCMIL EACH IN 3" CONDUIT.
3. CT CABINET AND KWH METER BASE BY CONTRACTOR. COORDINATE CT CABINET AND SERVICE ENTRANCE REQUIREMENTS WITH UTILITY COMPANY.
4. 600A/3P ENCLOSED CIRCUIT BREAKER(SERVICE ENTRANCE RATED) IN NEMA 3R ENCLOSURE. MIN AIC RATED 14000A.
5. #2/0 GND IN 1" CONDUIT.
6. 2 SETS OF (4) #350 KCMIL + #1 EACH IN 3" CONDUIT.
7. (3) #2 + #6 GND IN 1-1/2" CONDUIT.
8. 480:120/208V, 75KVA DRY TYPE TRANSFORMER 115°C RISE, DELTA/WYE, COPPER WINDINGS. PROVIDE 4" CONCRETE HOUSEKEEPING PAD FOR TRANSFORMER.
9. #2 GND IN 1" CONDUIT.
10. (4) #4/0 + #2 GND IN 2-1/2" CONDUIT.
11. (4) #2 + #6 GND IN 1-1/4" CONDUIT.



NOTE: VERIFY ALL SERVICE ENTRANCE REQUIREMENTS WITH UTILITY COMPANY AND CITY PRIOR TO BID. INCLUDE ALL LABOR AND MATERIALS (DISCONNECTS, CT CABINET, METER BASE, CONCRETE, CONDUIT AND CONDUCTORS) NECESSARY FOR A COMPLETE SYSTEM.

1 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

jsa architects
1312 Ave Q.
Lubbock,Tx 79401
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Houston - Kerrville - Lubbock
Midland - Odessa

GOODWILL INDUSTRIES OF NORTHWEST TEXAS
NEW RETAIL & CAREER RESOURCE CENTER
512 N MLK JR. BLVD LUBBOCK, TX 79403

Goodwill Industries of Northwest Texas

Issue / Revisions:

No.	Date	Description
0	08.08.2025	100% CONSTRUCTION DOCUMENTS
1		
2		
3		
4		
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7		
8		
9		

STATE OF TEXAS
Kris Stepp
98476
LICENSED PROFESSIONAL ENGINEER
8-8-2025

JSA No: 2025-07

ELECTRICAL SCHEDULES

E2.0

FINCHER ENGINEERING
WWW.FINCHERENG.COM
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TX FIRM #F-16408
5621 114TH ST., SUITE 100
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PH: 806-701-5109

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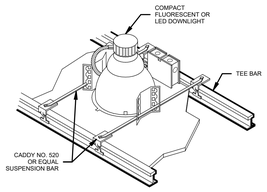

DOWNLIGHT DETAIL
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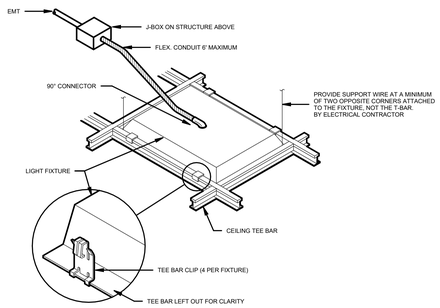
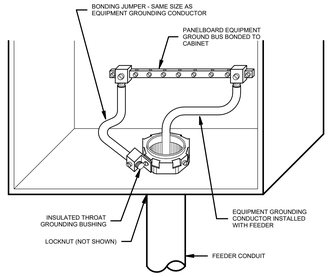
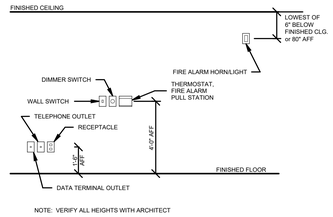


NOTE: TYPICAL FOR ALL LIGHT FIXTURES

LAY-IN LIGHT FIXTURE DETAIL
NO SCALE

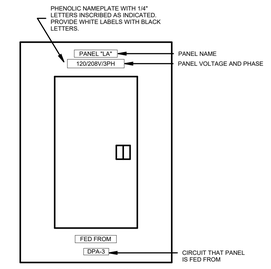


PANELBOARD BONDING DETAIL
NO SCALE



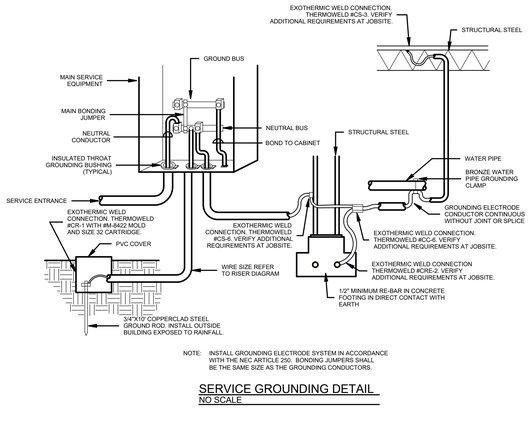
NOTE: VERIFY ALL HEIGHTS WITH ARCHITECT

WIRING DEVICE MOUNTING HEIGHTS - TYPICAL
NO SCALE



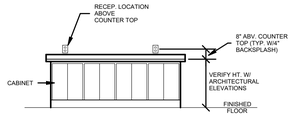
TYPICAL FOR ALL PANELBOARDS.

PANEL IDENTIFICATION DETAIL
NO SCALE



NOTE: INSTALL GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH THE NEC ARTICLE 250. BONDING JUMPERS SHALL BE THE SAME SIZE AS THE GROUNDING CONDUCTORS.

SERVICE GROUNDING DETAIL
NO SCALE



NOTE: VERIFY ALL HEIGHTS WITH ARCHITECT

WIRING DEVICE MOUNTING HEIGHT
NO SCALE

LIGHTING CONTROL DETAILS

ROOMS WITH THESE LIGHTING CONTROL SYMBOLS	TYPICAL LOCATIONS	LIGHTING CONTROL DESCRIPTION	EXAMPLE MODEL NUMBERS
$_{D}$S $_{O}$S	CLASSROOMS, OFFICES SMALL ROOMS	WALL MOUNTED WALL BOX CONTROL WITH VACANCY/OCCUPANCY SENSOR. "D" INDICATES DIMMING SWITCH.	SWITCH (VD): LUTRON MS-Z101 SWITCH (V AND O): LUTRON MS-A102 SWITCH (D): LUTRON LOW VOLTAGE DIMMER
	BATHROOMS, CLASSROOMS	OCCUPANCY/VACANCY CONTROLLED WITH CEILING MOUNTED SENSORS AND WALL MOUNT SWITCH FOR OCCUPANCY/VACANCY SENSOR OVERRIDE	POWER PACK 1: LUTRON PP-DV OS/VS SENSORS: LUTRON LOS-CDT WALL SWITCH: LUTRON LOW VOLTAGE SWITCH

NOTES:
A. REFER TO MANUFACTURER'S DETAILS FOR LIGHTING CONTROL WIRING DIAGRAMS.
B. COORDINATE WITH LIGHTING CONTROLS MANUFACTURER PRIOR TO ROUGH-IN OF ANY CONDUIT OR WIRING FOR LIGHTING SYSTEM TO VERIFY WIRING REQUIREMENTS WITH LIGHTING CONTROL SYSTEM PROVIDED ON PROJECT.
C. LIGHTING CONTROL SYSTEM TO BE FULLY COMMISSIONED AND PROGRAMMED BY FACTORY TRAINED MANUFACTURERS REPRESENTATIVE. PROVIDE COMPLETE TRAINING TO OWNER. CONTRACTOR SHALL CONTACT MANUFACTURER AT LEAST 3 WEEKS PRIOR TO COMPLETION OF WORK TO SCHEDULE COMMISSIONING.

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Midland - Odessa

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"the only disability is a bad attitude"

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JSA No: 2025-07

ELECTRICAL DETAILS

E2.1

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