

Thermal Vac

Chino Valley, ARIZONA

Deferred Submittals

The following items are required and will be provided as a deferred submittal:

- Fire Alarm System.

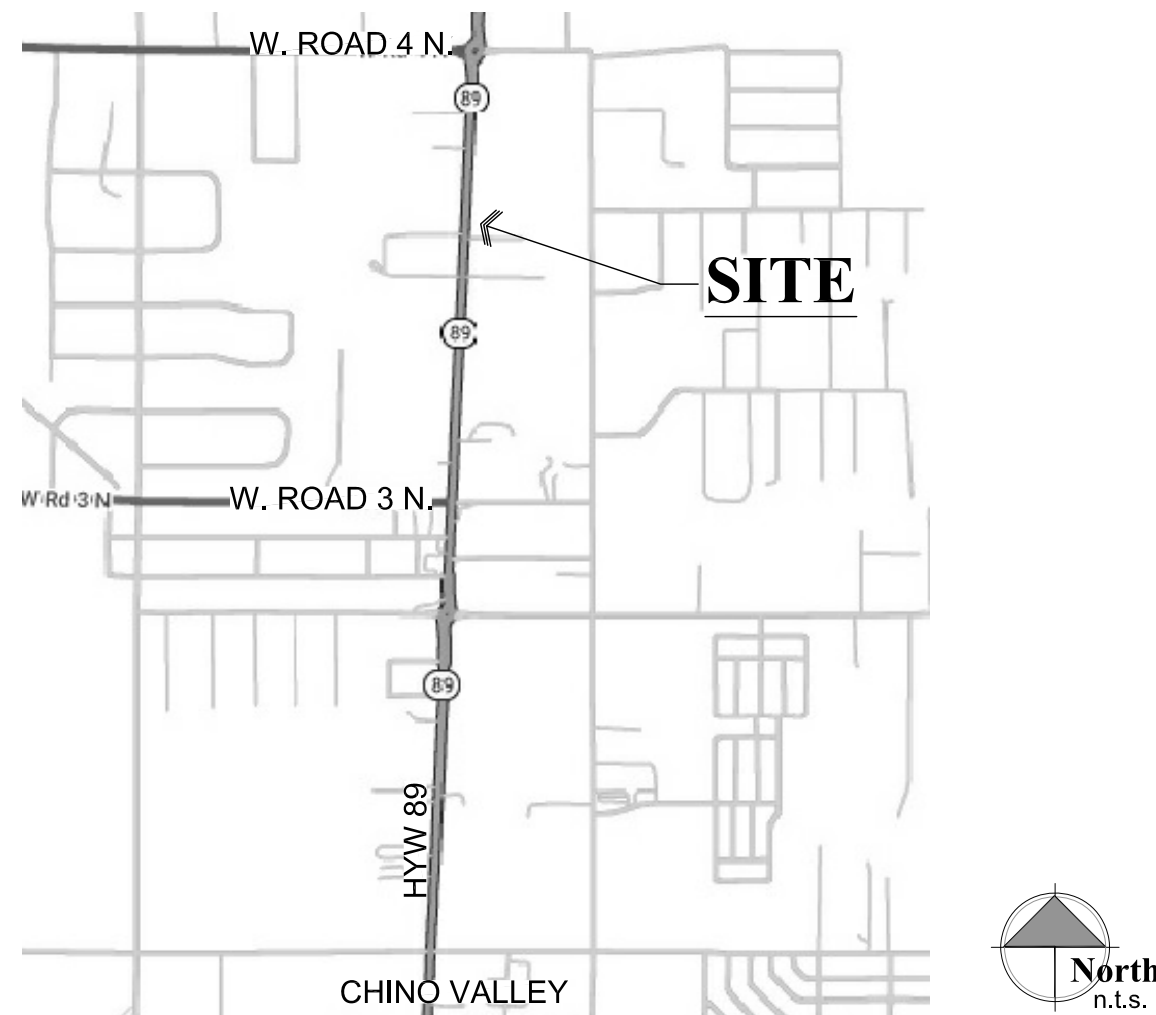
Automatic Fire Alarm System submittal documents for deferred submittal shall be submitted to the local fire district, who shall review them and forward them to the building official, with a notation indicating that the deferred submittal documents have been reviewed and that they have been found to be in general conformance with the design of the building. The deferred submittal items shall "NOT" be installed until their design and submittal documents have been approved by the fire marshal having jurisdiction.

Project Description

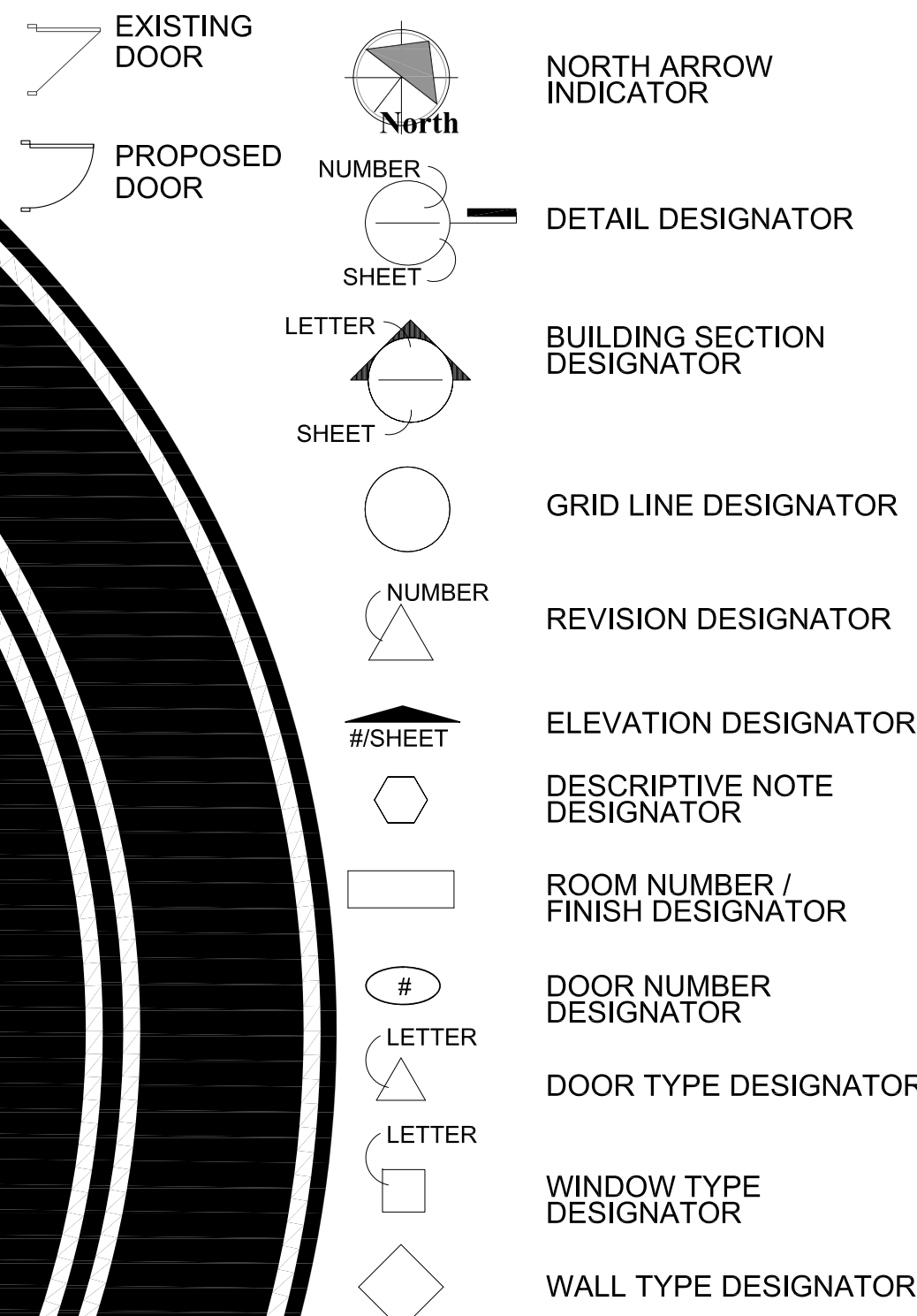
Thermal Vac intends to remodel an existing 18,600 S.F. building. The existing building is separated by interior fire walls due to the fact that a sprinkler system is not possible. The original building separation was 7,500 s.f., but has since changed to 5,000 s.f. maximum. New fire walls will be added to the remodeled area.

Asphaltic parking areas will be added to the site along with detention, retaining walls, a block wall fence and landscaping.

Vicinity Map



Graphic Standards



Project Information

Owner: Driscoll Holdings LLC
1221 Struck Ave.
Orange, CA 92867

Contact: Sean Driscoll
714-514-8382
sean.driscoll@thermalvac.com

Prepared by: W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304

Contact: Alan Kenson, 928-443-5812
waka@cablcone.net

Jobsite Address: 2575 N. St. Rt. 89,
Chino Valley, AZ 86323

Parcel Number: 306-14-024

Lot Area: 1 Acre

Zoning: CH

Current Code: 2018 International Building Code

Existing Building : 18,600 S.F.

Occupancy: F1 Factory Industrial Moderate Hazard

Construction Type: Type V-B

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Architect:

W. Alan Kenson & Associates, P.C.

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ARCHITECTURE & PLANNING



REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: Cover Sheet

PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN: 306-14-024

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE April 8th, 2021
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CS1

Apr 08, 2021 - 9:12am

Plumbing Calculations

OCCUPANCY CLASSIFICATION	OCCUPANCY COUNT	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK
FACTORY & STORAGE	55	.55	.55	1	1
BUSINESS	33	1.32	.825	1	1
TOTAL REQUIRED		1.87	1.375		
TOTAL PROVIDED		6 SINGLE USER RESTROOMS	6	1	1

EXIT SIGNS:

- PROVIDE A 6"x9" BLUE TACTILE, BRAILLE, 'EXIT' SIGN AS MANUFACTURED BY 'SIMPLY EXIT SIGNS (#SE-1980)' OR EQUAL COMPLYING WITH ICC/ANSI A117.1 SECTION 703.1 AND IBC 1013 & SECTION 1111, ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE.

Accessibility Notes

- ACCESS TO THESE FACILITIES SHALL BE AT PRIMARY ENTRANCES.
- THE SLOPE OF PUBLIC WALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 2%.
- WALKING SURFACES GREATER THAN 2% SHALL BE SLIP RESISTANT.
- PROVIDE A 44"x60" MINIMUM LANDING ON THE STRIKE SIDE OF THE ENTRANCE DOOR WITH 44" MINIMUM WIDTH IN THE DIRECTION OF TRAVEL.
- WALLS SHALL EXTEND 18" TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARDS THE OCCUPANT.
- RAMPS SHALL HAVE A NON-SLIP SURFACE.
- RAMPS SHALL BE A MINIMUM OF 36" WIDE.
- EVERY REQUIRED EXIT DOORWAY SHALL BE SIZED FOR A DOOR NOT LESS THAN 36" WIDE BY NOT LESS THAN 6'-8" HIGH CAPABLE OF OPENING 90 DEGREES AND MOUNTED SO THE CLEAR WIDTH OF THE EXIT WAY IS 32" MINIMUM.
- THRESHOLDS TO BE A MAXIMUM OF 1/4" ABOVE ADJACENT FLOOR FINISH. ONE-HALF INCH THRESHOLD MAY BE USED IF BEVELED PER A.D.A. STANDARDS.
- MAXIMUM EFFORT TO OPERATE A DOOR SHALL NOT EXCEED 5 POUNDS.
- THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE.
- PROVIDE LEVER TYPE HARDWARE, PANIC BARS, PUSH AND PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. (30" TO 44" A.F.F.)

Egress Legend:

- EXIT ACCESS
- ACCESSORY USE (NO OCCUPANCY)
- ROOM OCCUPANCY LOAD
- SUBTOTAL OCCUPANCY LOAD
- OCCUPANCY TOTAL
- REQUIRED EXIT WIDTH (FACTOR = 0.2)
- PROVIDED EXIT WIDTH

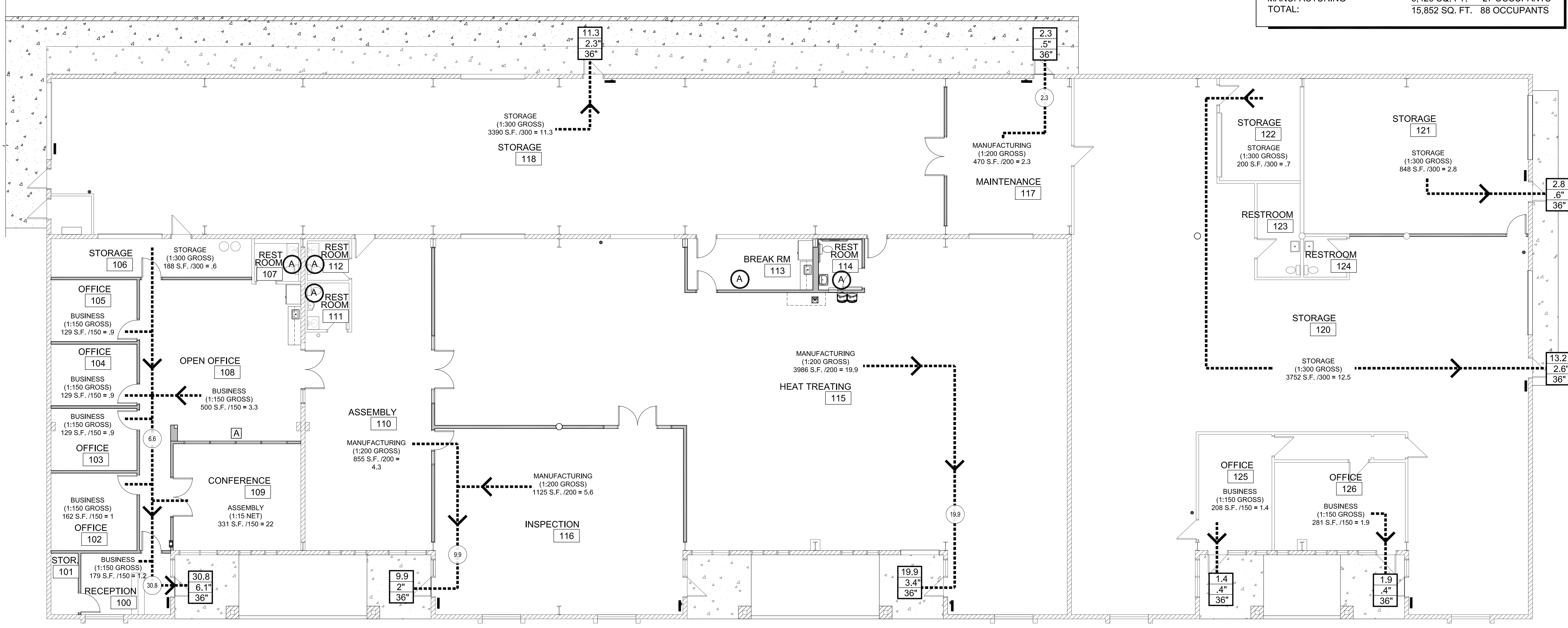
FUNCTION OF SPACE OCCUPANT LOAD FACTOR

STORAGE	300 GROSS
OFFICE	150 GROSS
ASSEMBLY	15 NET
MANUFACTURING	200 GROSS

Occupant load

NOTE:
GROSS SQUARE FOOTAGE LISTED BELOW DOES NOT INCLUDE ACCESSORY AREAS.

STORAGE	8,378 SQ. FT.	28 OCCUPANTS
OFFICE AREA	1,717 SQ. FT.	11 OCCUPANTS
ASSEMBLY	331 SQ. FT.	22 OCCUPANTS
MANUFACTURING	5,426 SQ. FT.	27 OCCUPANTS
TOTAL:	15,852 SQ. FT.	88 OCCUPANTS



Occupancy / Egress Plan

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



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DRAWING: Occupancy / Egress Plan and Code Summary

PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

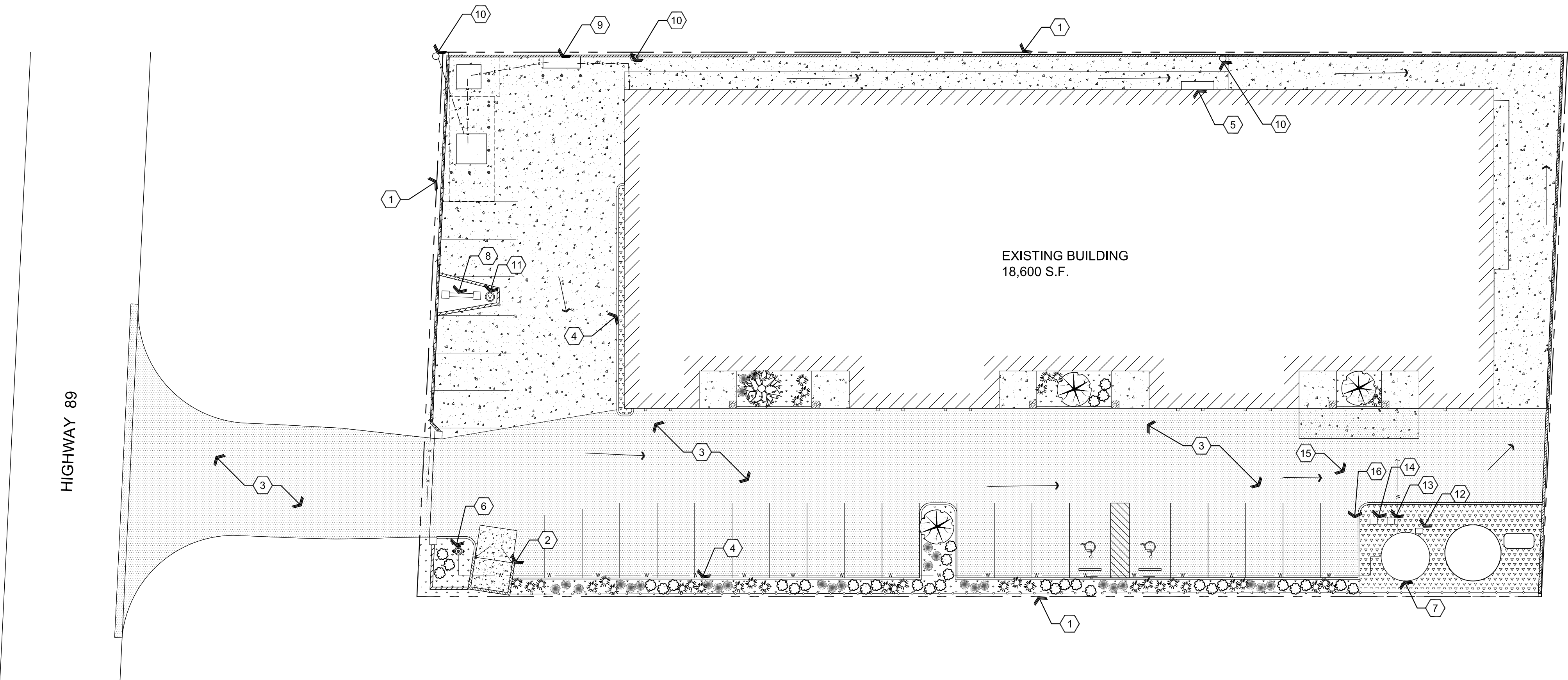
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CHECKED BY W.A.K.
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CS2

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A1 Landscape Plan



Plant Schedule			
SYMBOL	SIZE	QUANTITY	COMMON NAME / SCIENTIFIC NAME
	5 GAL	34	AUTUMN SAGE / SALVIA GREGGII
	5 GAL	37	SPANISH DAGGER / YUCCA GLORIOSA
	5 GAL	27	ROSEMARY / ROSEMARY OFFICINALIS
	15 GAL	3	SUNBURST HONEYLOCUST / GLEDITSIA TRIACANTHOS
		1	EXISTING TREE
NOTES: 1. LANDSCAPE PLANTINGS SHALL BE WATERED VIA DRIP IRRIGATION SYSTEM ON LANDSCAPE TIME CLOCK. 2. PROVIDE BACKFLOW PREVENTOR FOR DRIP IRRIGATION SYSTEM. 3. SPRAY ALL GROUND COVER AREAS W/ PRE-EMERGENT FOR WEED CONTROL. 4. PROVIDE WEED BARRIER IN ALL PLANTER AREAS. 5. GROUND COVER IN ALL PLANTER AREAS SHALL BE 3/4" COLORED ROCK. WHERE SLOPES ARE TOO STEEP, PROVIDE 2" - 3" FRACTURED RIP RAP OF MATCHING COLOR. REFER TO CIVIL PLANS FOR TOPOGRAPHY.			

NOTE:

- FRONT YARD LANDSCAPE REQUIREMENT CANNOT BE MET DUE TO PARKING REQUIREMENTS AND EXISTING CONDITIONS.

Legend	
	CONCRETE
	ASPHALTIC PAVEMENT
	PROPOSED LANDSCAPE AREA
	PROPOSED 3/4" COLORED ROCK TO MATCH LANDSCAPE AREAS
NOTE: REFER TO SHEET L0.1 FOR LANDSCAPING DETAILS	

- | Descriptive Keynotes | |
|----------------------|---|
| 1. | PROPERTY LINE. |
| 2. | EXISTING DUMPSTER ENCLOSURE. PROVIDE SOLID GATE REFER TO DETAIL A1/A0.2. |
| 3. | PROPOSED ASPHALTIC PAVEMENT, REFER TO CIVIL PLANS. |
| 4. | CAST IN PLACE CONCRETE CURB, REFER TO CIVIL PLANS. |
| 5. | EXISTING ELECTRICAL SERVICE ENTRANCE SECTION , REFER TO ELECTRICAL PLANS. |
| 6. | EXISTING / DRAFT FIRE HYDRANT / FDC. |
| 7. | EXISTING WATER STORAGE TANK. |
| 8. | EXISTING SIGNAGE. |
| 9. | PROPOSED SES, REFER TO ELECTRICAL PLANS. |
| 10. | EXISTING POWER POLE. |
| 11. | EXISTING WELL HEAD. |
| 12. | PROVIDE LANDSCAPE TIMER ON UNISTRUT SUPPORT BRACKET. |
| 13. | PROVIDE BACKFLOW PREVENTOR FOR LANDSCAPE IRRIGATION SYSTEM. PROVIDE ASSE 1060 COMPLIANT FREEZE RESISTANT COVER BOLTED TO CONCRETE SLAB. REFER TO CIVIL PLANS. |
| 14. | PROVIDE 3/4" VALVED SCHEDULE 40 PVC STUB - OUT IN BELOW GRADE YARD BOX FOR LANDSCAPE IRRIGATION SYSTEM, REFER TO CIVIL PLANS. |
| 15. | EXISTING DOMESTIC WATER LINE. |
| 16. | PROVIDE 3/4" PVC, BELOW GRADE WATER LINE TO LANDSCAPE SYSTEM. |

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ARCHITECTURE & PLANNING

DRAWING: Landscape Plan

PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

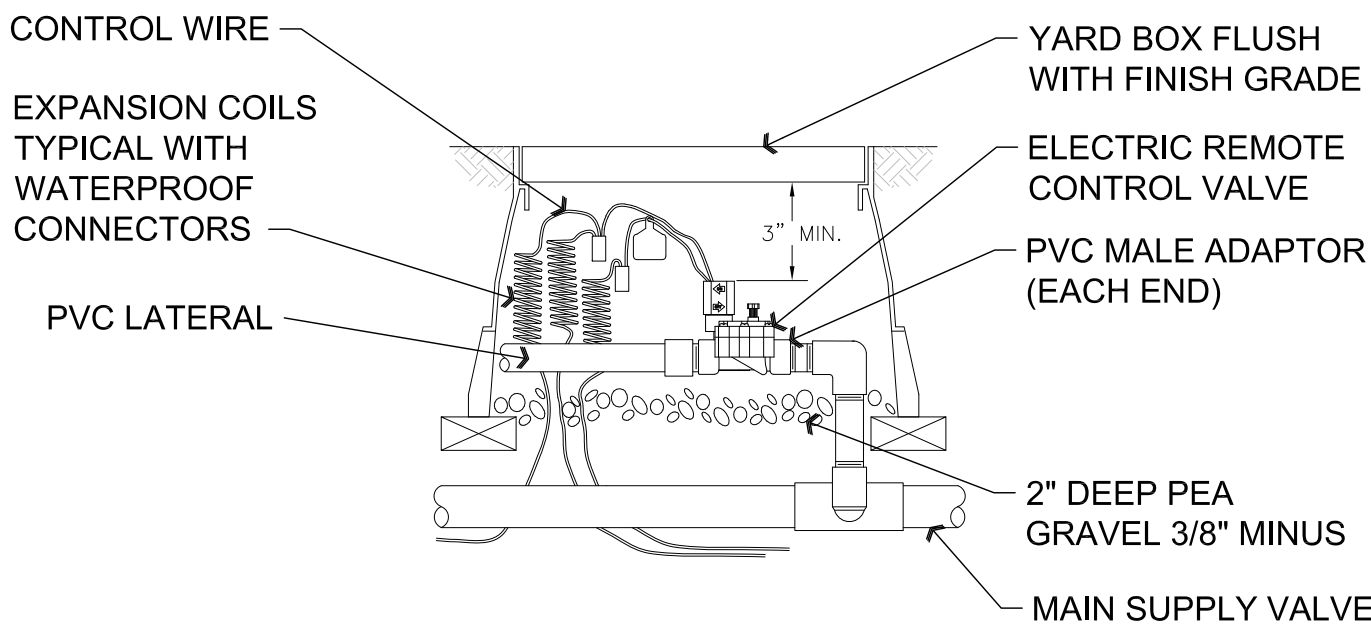
APN: 306-14-024

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L0.0

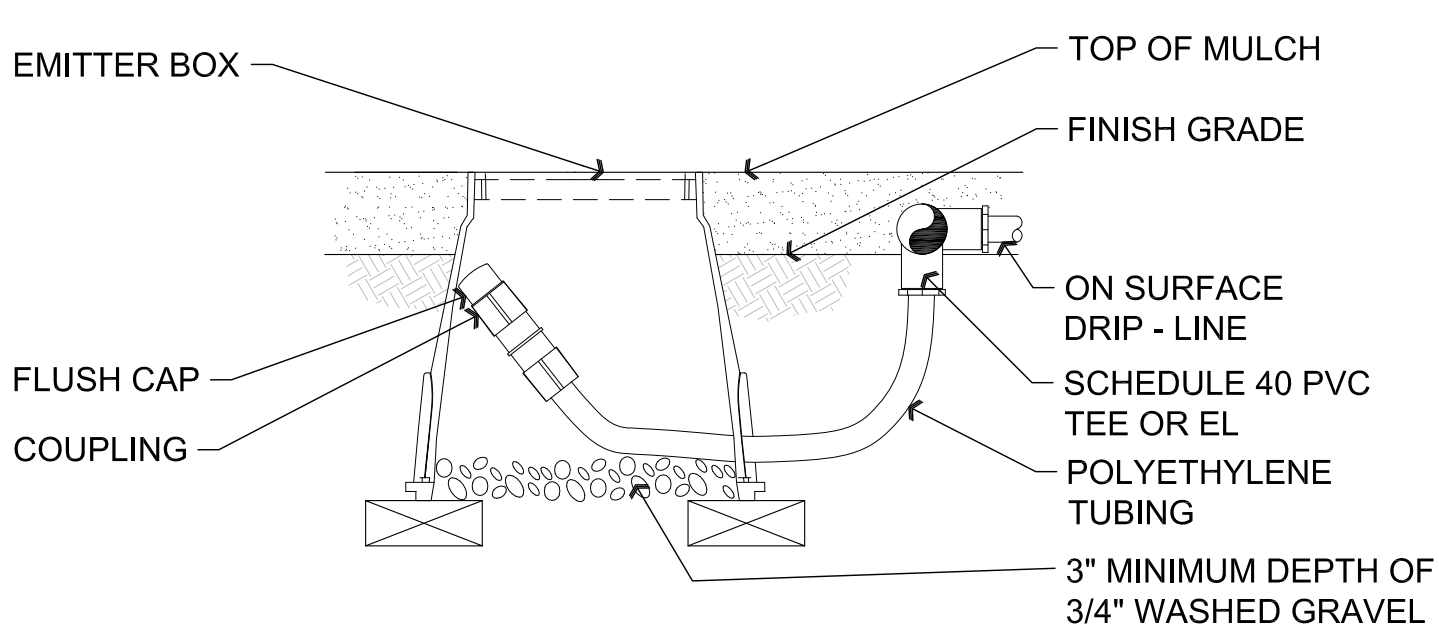
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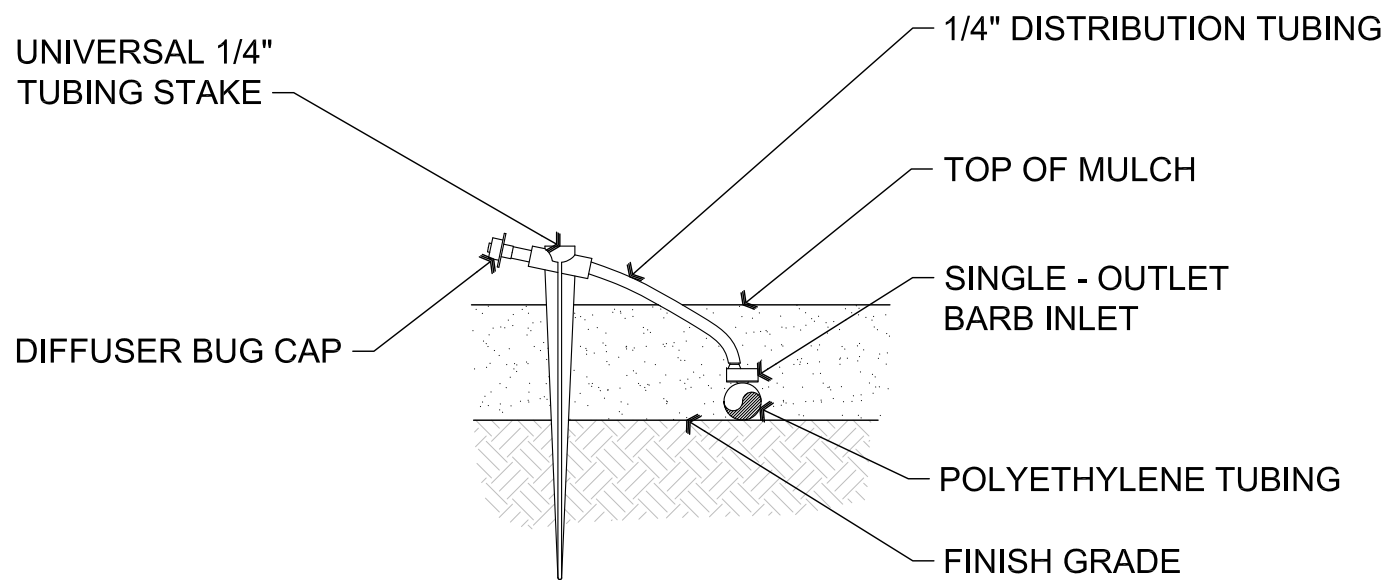
NOTE: SEAL ALL THREADED JOINTS / FITTINGS WITH APPROVED SEALANT PRIOR TO ASSEMBLY

A4 Typical Electric Remote Control Valve



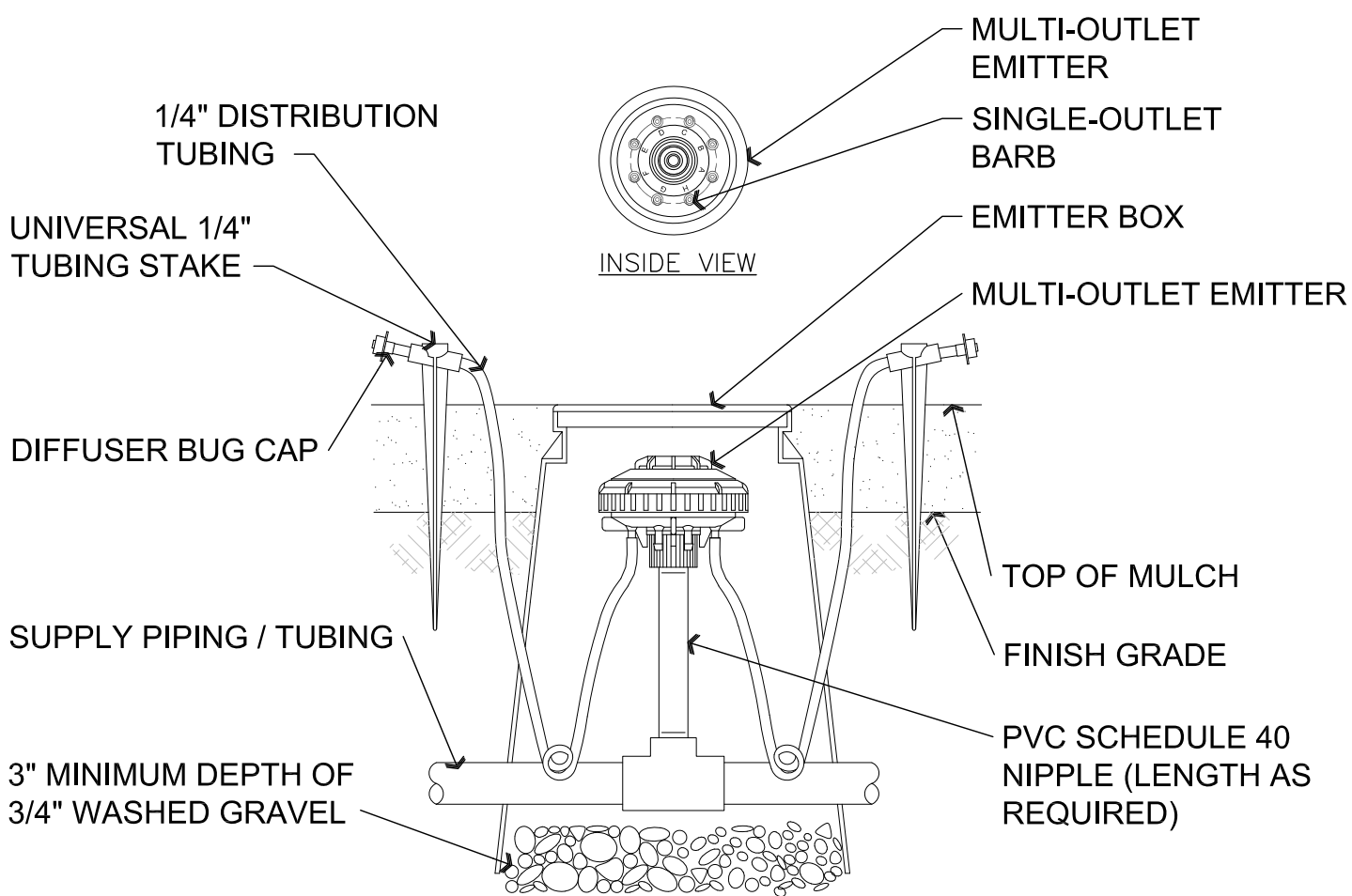
NOTE: ALLOW A MINIMUM 6" OF DRIP - LINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

B4 Typical Drip Line Flush Box



NOTE: FOR SLOPED CONDITIONS PLACE DISTRIBUTION POINT AT THE HIGH POINT OF THE PLANTING WELL.

B3 Typical Single - Port Emitter

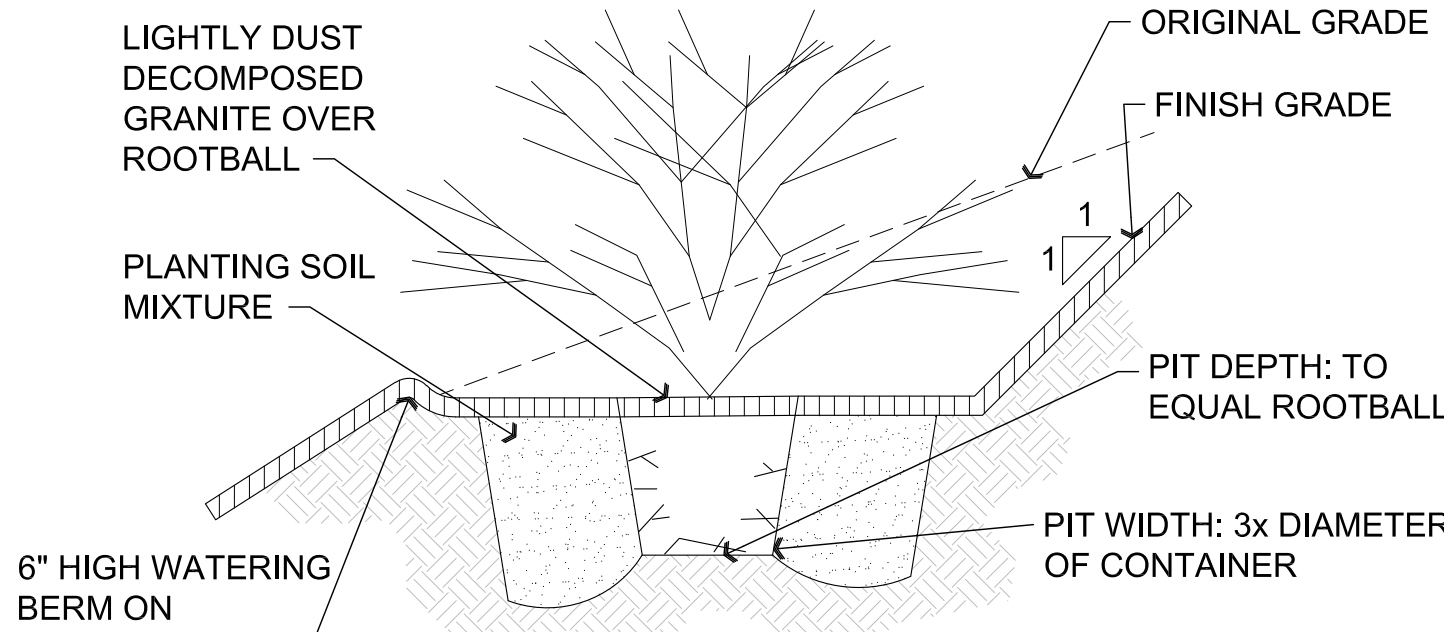


NOTE: COIL ADDITIONAL 9" OF TUBING IN EMITTER BOX TO FACILITATE MAINTENANCE.

INSTALL A MINIMUM OF (1) MULTI-PORT EMITTER PER TREE - EQUALLY SPACED AROUND DRIP LINE OF TREE CANOPY TYPICAL. OPEN ADDITIONAL PORTS AND INSTALL SPAGHETTI DISTRIBUTION TUBING TO PROVIDE ADEQUATE WATER AS TREE MATURES, (TYP.)

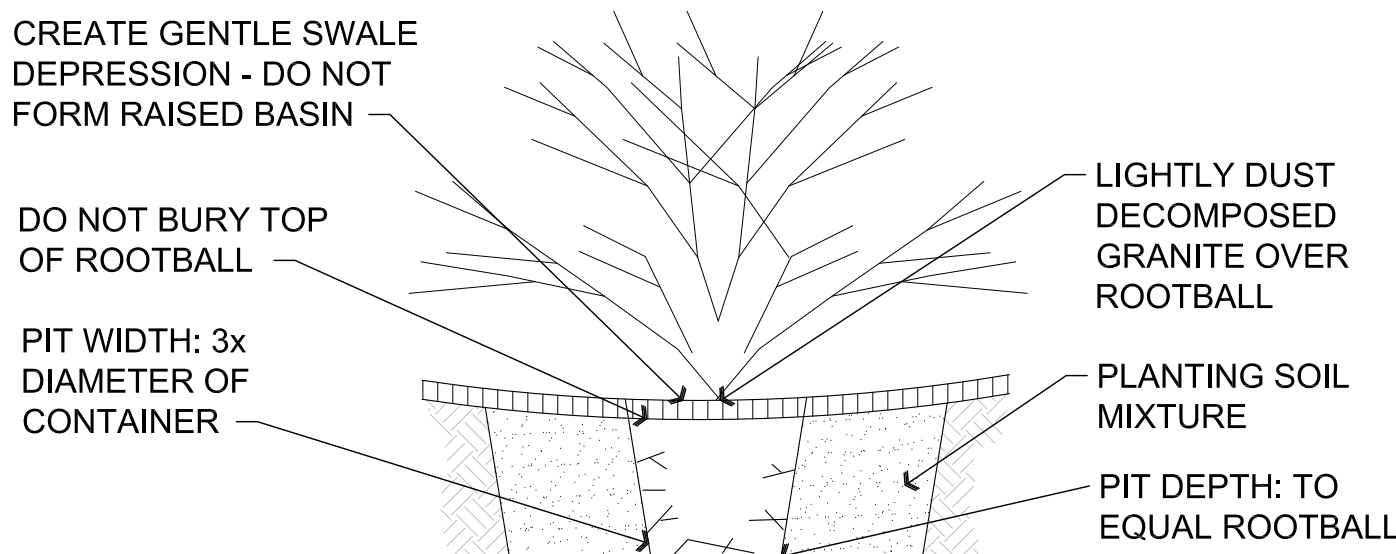
FOR SLOPED CONDITIONS PLACE DISTRIBUTION POINT AT THE HIGH POINT OF PLANTING WELL.

B1 Typical Multi - Port Emitter



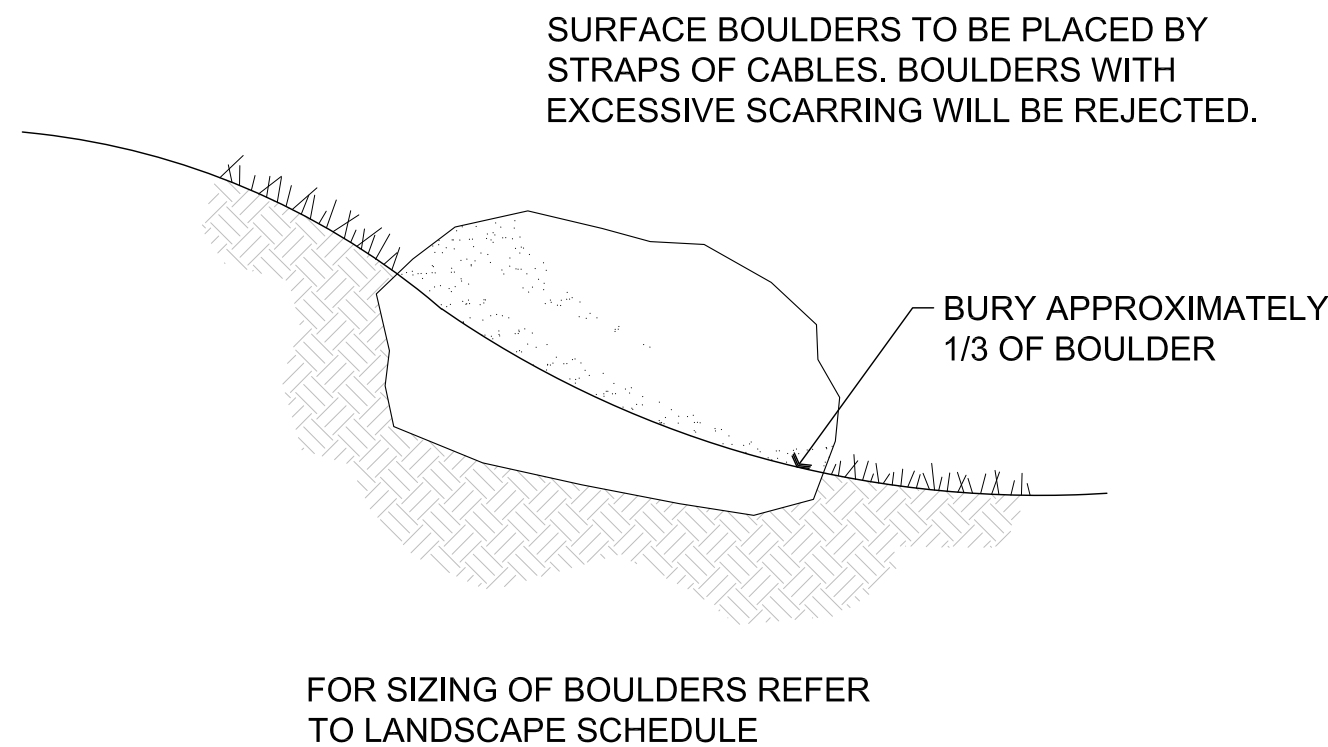
PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

C4 Typical Shrub Planting on Slope

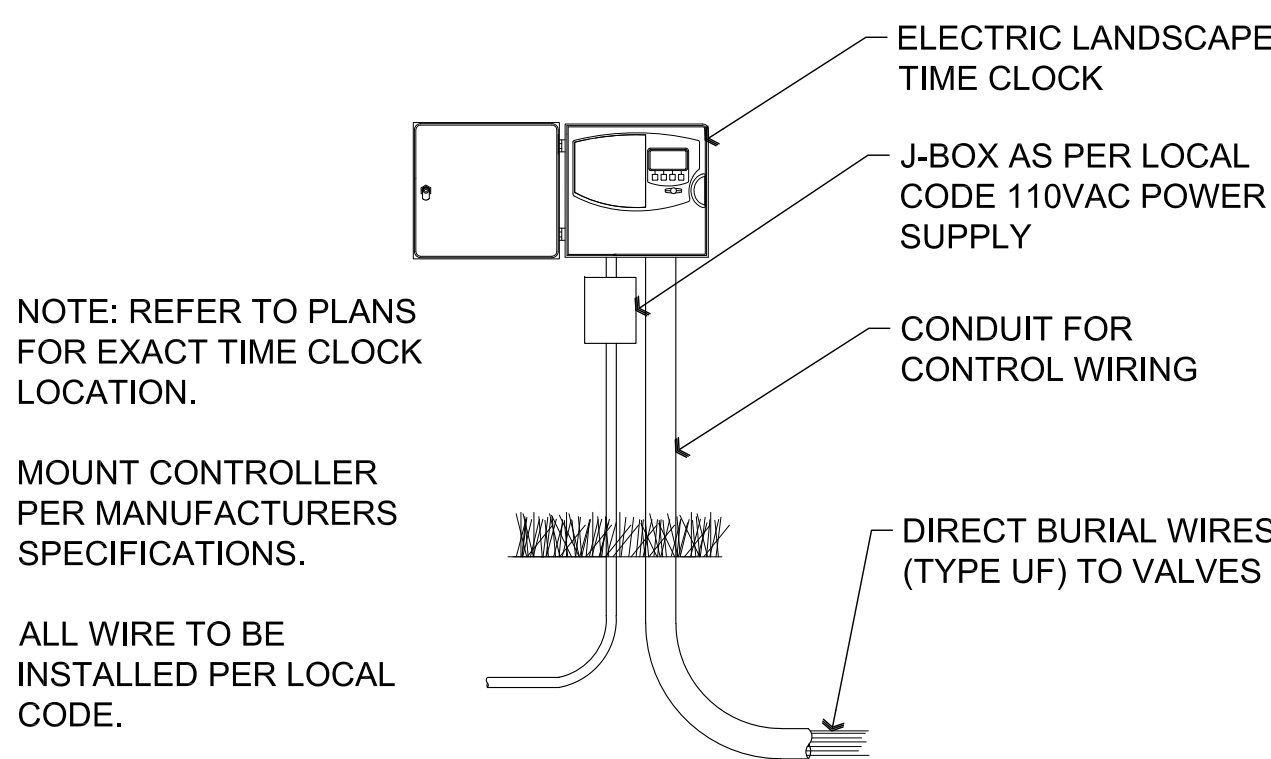


PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

C3 Typical Shrub Planting



C2 Typical Boulder Detail

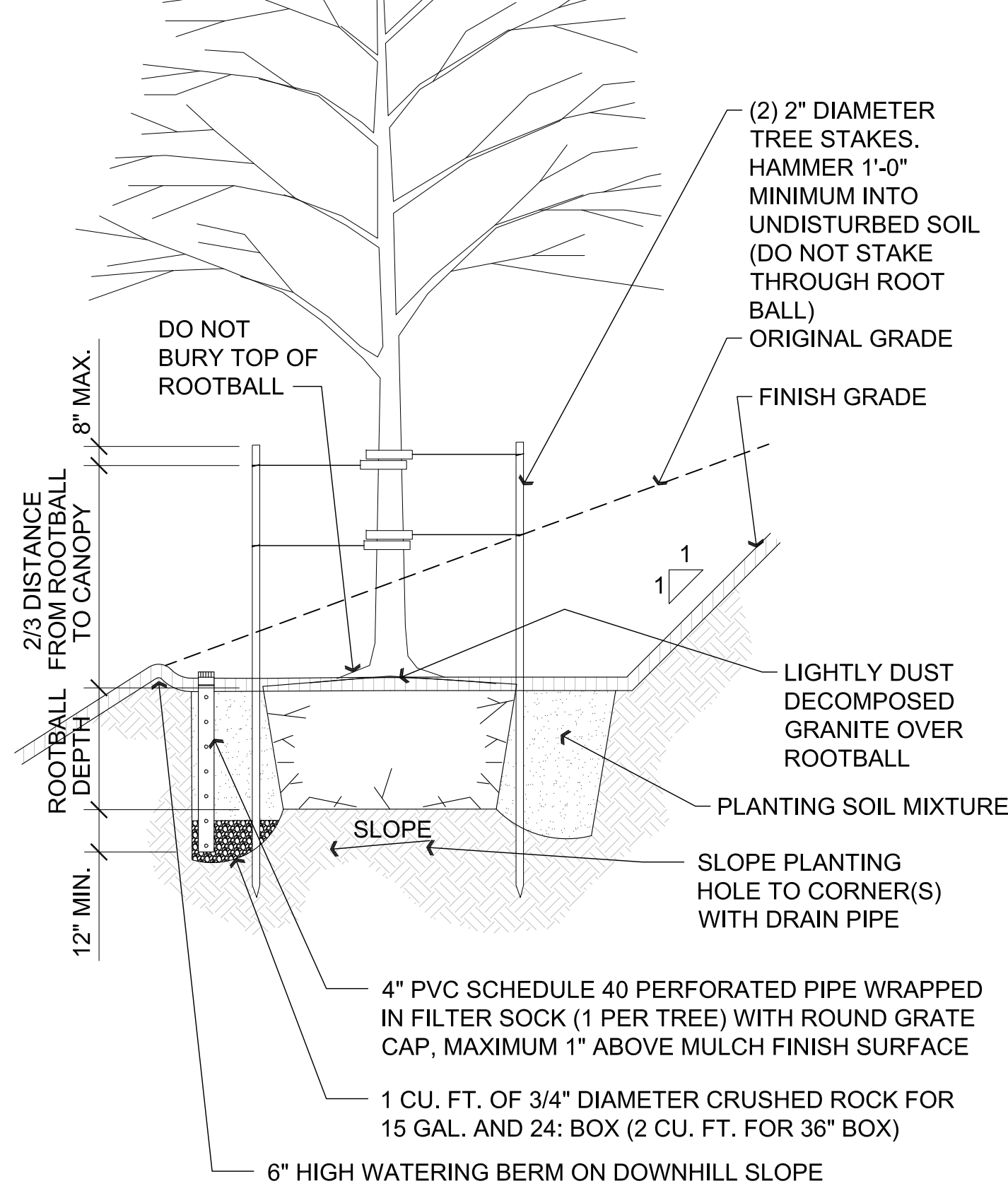


NOTE: REFER TO PLANS FOR EXACT TIME CLOCK LOCATION.

MOUNT CONTROLLER PER MANUFACTURERS SPECIFICATIONS.

ALL WIRE TO BE INSTALLED PER LOCAL CODE.

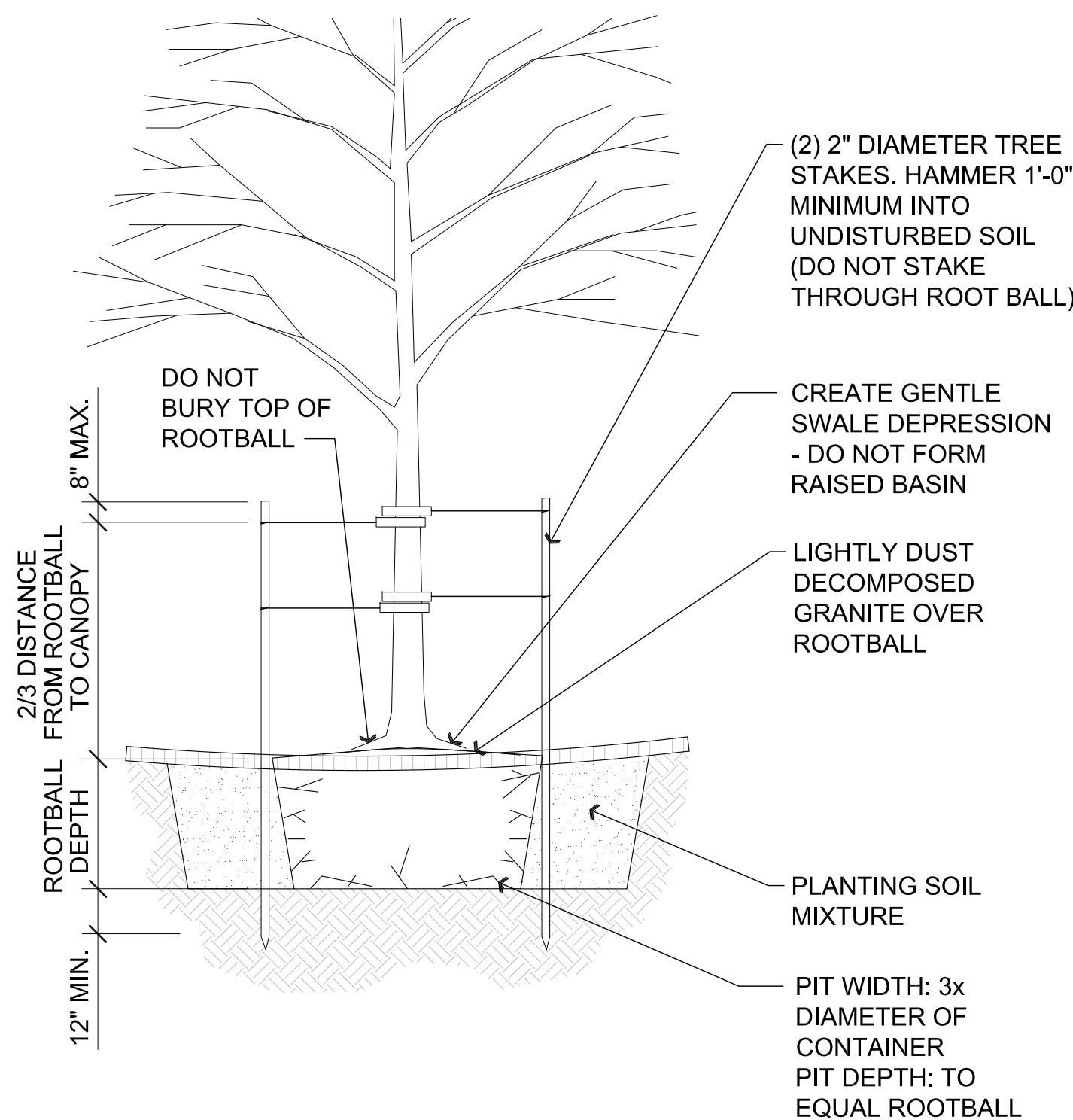
C1 Typical Electric Landscape Time Clock



NOTE: STAKE TREE PERPENDICULAR TO DIRECTION OF PREVAILING WIND.

PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

D3 Typical Tree Planting on Slope



NOTE: STAKE TREE PERPENDICULAR TO DIRECTION OF PREVAILING WIND.

PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

D1 Typical Tree Planting

REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: LANDSCAPE DETAILS

PROJECT:

Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN:

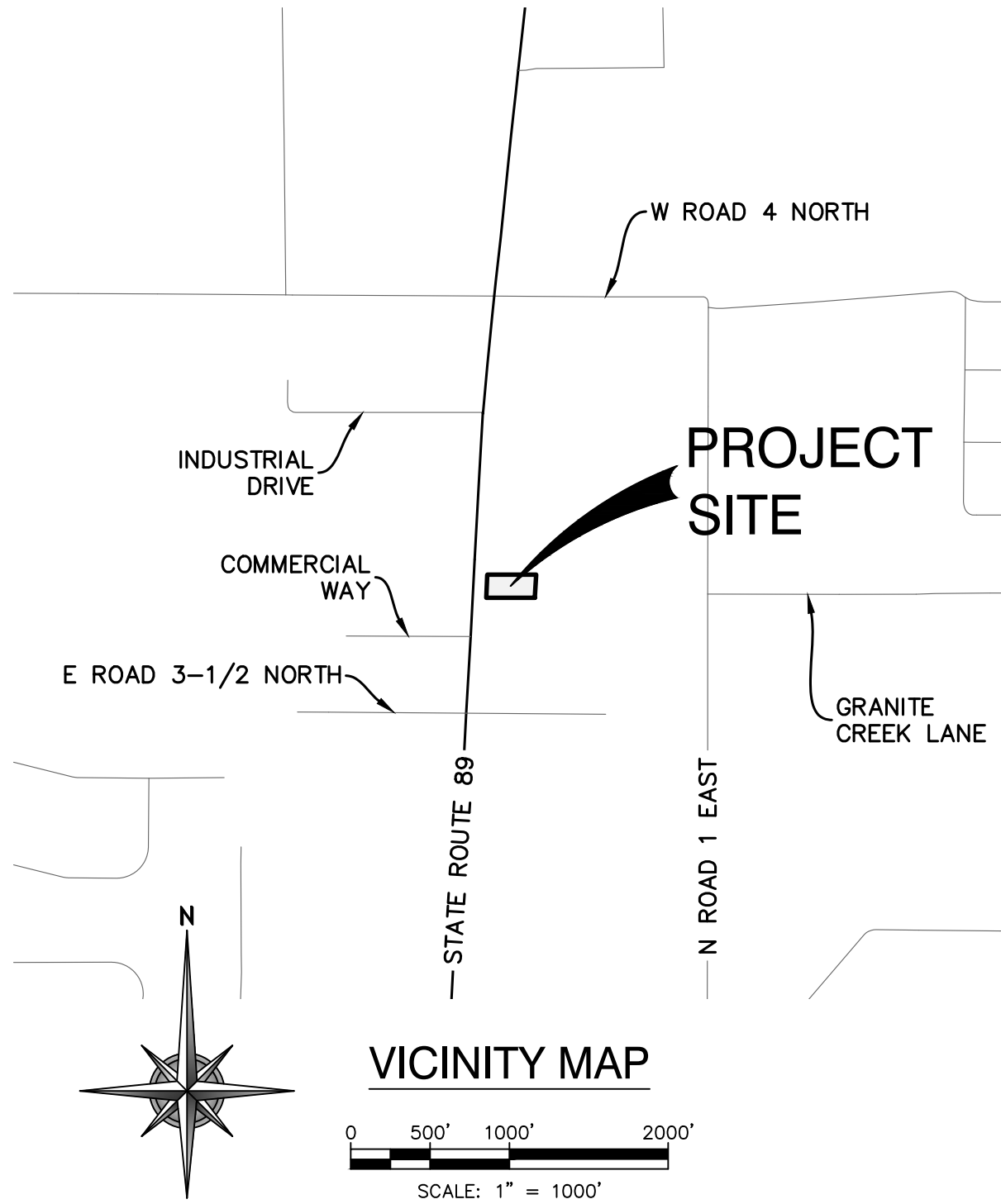
308-14-024

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CHECKED BY W.A.K.
DATE April 8th, 2021
JOB NO. 761
SHEET

L0.1

THERMAL VAC CIVIL IMPROVEMENT PLANS

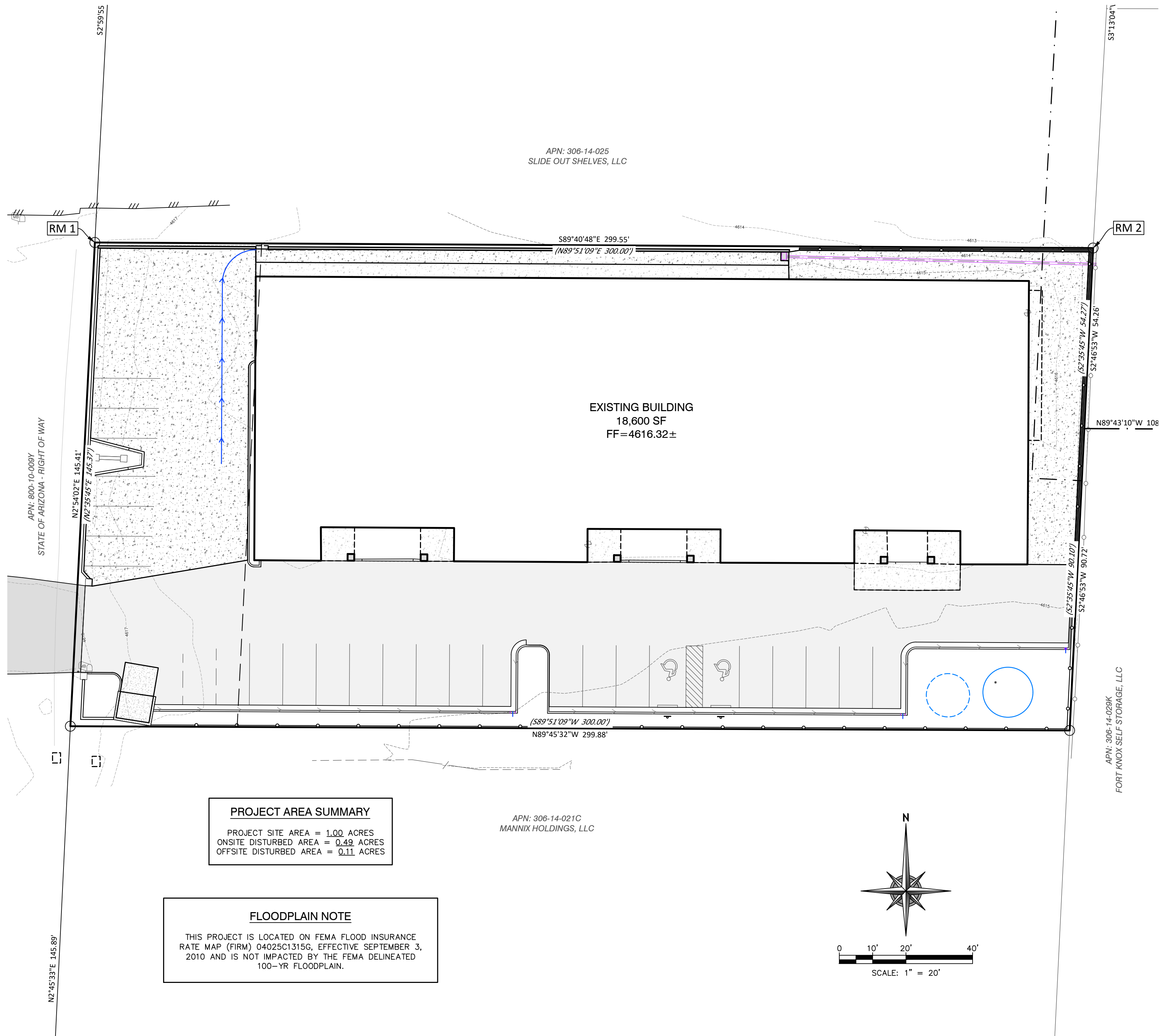
APN: 306-14-024, 2575 N. STATE ROUTE 89
SITUATED IN A PORTION OF SECTION 10, TOWNSHIP 16 NORTH, RANGE 2 WEST GILA AND SALT RIVER MERIDIAN
TOWN OF CHINO VALLEY, YAVAPAI COUNTY, ARIZONA



UTILITY CONTACT INFORMATION			
UTILITY	COMPANY	CONTACT	PHONE
ELECTRIC/POWER	ARIZONA PUBLIC SERVICE 6672 CORSAIR AVENUE PRESCOTT, AZ 86301	HECTOR MARTINEZ	(602) 230-5870
PHONE/COMMUNICATION	CENTURYLINK 1445 MASONRY WAY PRESCOTT, AZ 86301	JASON DALE	(928) 779-4931
NATURAL GAS	UNISOURCE 6405 WILKINSON DRIVE PRESCOTT, AZ 86301	DIANE SWIGERT	(928) 771-7229
CABLE TELEVISION	SPARKLIGHT 3801 TOWER ROAD PRESCOTT, AZ 86305	ERNIE ORTEGA	(928) 443-3348
FIRE PREVENTION	CENTRAL ARIZONA FIRE & MEDICAL AUTHORITY (CAFMA) 8603 E. EASTRIDGE DRIVE PRESCOTT VALLEY, AZ 86314	RICK CHASE	(928) 772-7711



BASIS OF BEARING & BENCHMARKS			
THE BASIS OF BEARING FOR THIS PROJECT IS S89°40'48"E, A DISTANCE OF 299.55 FEET ALONG THE NORTH LINE SUBJECT PARCEL BETWEEN TWO 1/2" REBARS WITH CAPS RLS 23383 & 12005.			
REFERENCE MARK	NORTHING	EASTING	ELEVATION (88)
RM 1	377636.99	139428.28	4617.71
RM 2	377635.32	139727.83	4613.15
THE COORDINATES AS DEPICTED HEREON, REFLECT THE TOWN OF CHINO VALLEY COORDINATE SYSTEM AS PUBLISHED BY THE TOWN OF CHINO VALLEY AND AVAILABLE ON THEIR WEBSITE.			



PROJECT AREA SUMMARY
PROJECT SITE AREA = 1.00 ACRES
ONSITE DISTURBED AREA = 0.49 ACRES
OFFSITE DISTURBED AREA = 0.11 ACRES

FLOODPLAIN NOTE
THIS PROJECT IS LOCATED ON FEMA FLOOD INSURANCE RATE MAP (FIRM) 04025C1315C, EFFECTIVE SEPTEMBER 3, 2010 AND IS NOT IMPACTED BY THE FEMA DELINEATED 100-YR FLOODPLAIN.

LOCATION MAP

PROJECT OWNER
DRISCOL HOLDINGS, LLC
1221 W. STRUCK AVE.
ORANGE, CALIFORNIA 92867

ARCHITECT
W. ALAN KENSON & ASSOCIATES, P.C.
P.O. BOX 11593
PRESCOTT, ARIZONA 86304
(928) 443-5812

CIVIL ENGINEER
GRANITE BASIN
ENGINEERING, INC.
1981 COMMERCE CENTER CIRCLE, SUITE B
PRESCOTT, ARIZONA 86301
(928) 717-0171
CONTACT: BEN B. HUZA, P.E.
GBE PROJECT #20116

SHEET INDEX		
NUMBER	SHEET	SHEET TITLE
1	C1	COVER
2	C2	NOTES
3	C3	DETAILS
4	C4	EXISTING SITE SURVEY
5	C5	PROJECT SUMMARY MAP & QUANTITIES
6	C6	SITE CROSS SECTIONS
7	C7	ONSITE CIVIL IMPROVEMENTS
8	C8	OFFSITE CIVIL IMPROVEMENTS (ADOT DRIVEWAY)

APPROVED BY

TOWN ENGINEER

DATE

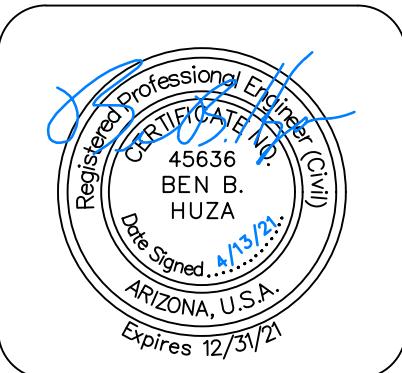


AS-BUILT CERTIFICATION

I HEREBY CERTIFY, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THIS PROJECT HAS BEEN COMPLETED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND REFERENCED STANDARDS, EXCEPT AS SHOWN HEREON. THAT THESE AS-BUILT PLANS REFLECT THE POSITION OF CONSTRUCTED IMPROVEMENTS BASED ON FIELD MEASUREMENTS, AND THAT THE MATERIALS USED IN CONSTRUCTION ARE AS SHOWN BASED ON FIELD OBSERVATION AND TEST RESULTS.

REVISIONS	BY

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PROJECT: Thermal Vac
2575 N. State Route 89
Chino Valley, AZ 86323
APN: 306-14-024

DRAWN BY BH
CHECKED BY BH
DATE April 13, 2021
JOB NO. 761
SHEET

C1

MATERIALS AND WORKMANSHIP

ALL MATERIALS & WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF INSCRIPTION CANYON RANCH WATER USERS ASSOCIATION (ICRWUA), INSCRIPTION CANYON RANCH SANITARY DISTRICT (ICRSD), YAVAPAI COUNTY ENVIRONMENTAL SERVICES (YCES), YAVAPAI COUNTY DEVELOPMENT SERVICES (YCDSS), YAVAPAI COUNTY PUBLIC WORKS (YCPW), MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS & DETAILS FOR PUBLIC WORKS CONSTRUCTION (MAG SPECS & DETAILS), ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) & RELATED ENGINEERING BULLETINS (NO. 10 - GUIDELINES FOR THE CONSTRUCTION OF WATER SYSTEMS & NO. 11 - MINIMUM REQUIREMENTS FOR DESIGN, SUBMISSION OF PLANS & SPECIFICATIONS FOR SEWAGE WORKS), ARIZONA ADMINISTRATIVE CODE (AAC) TITLE 18 (ENVIRONMENTAL QUALITY), AMERICAN WATER WORKS ASSOCIATION (AWWA), MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), ANY SPECIAL PROVISIONS PREPARED FOR THE PROJECT & GENERALLY ACCEPTED GOOD CONSTRUCTION PRACTICES. THE TERM "CURRENT" MEANS THE MOST RECENT SPECIFICATION OR STANDARD IN EFFECT AS OF THE DATE OF THE ENGINEER'S SEAL ON THESE PLANS.

IF TWO OR MORE GIVEN SPECIFICATIONS DIFFER IN CONTENT, THE MORE RESTRICTIVE OR STRINGENT STANDARD OR SPECIFICATION, IN THE OPINION OF THE ENGINEER, WILL GOVERN.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF THE NOTED STANDARDS, SPECIFICATIONS & DETAILS, AS WELL AS OTHER APPLICABLE STANDARDS & SPECIFICATIONS WHICH MAY BE NECESSARY TO COMPLETELY & ACCURATELY INTERPRET THESE PLANS. THIS REQUIREMENT EXTENDS TO ANY STANDARDS, DETAILS OR SPECIFICATIONS REFERENCED BY THE CONSTRUCTION DOCUMENTS & NOT INCLUDED IN THE LIST ABOVE.

THE ENGINEER MAY REQUIRE THE SUBMITTAL OF "CERTIFICATE OF COMPLIANCE" & MANUFACTURER'S GUIDELINES FOR ANY MATERIALS USED IN THE WORK. MANUFACTURER'S GUIDELINES SHALL CONSIST OF WRITTEN INSTRUCTIONS FOR SHIPPING, HANDLING, UNLOADING, CUTTING, JOINING, INSTALLATION, STORAGE & ANY OTHER FACETS OF WORKING.

SHOP DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR PER MAG SECTION 105.2

THE ENGINEER MAY ORDER ANY OR ALL MATERIALS USED IN THE WORK TO BE TESTED ACCORDING TO THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) & THE AMERICAN SECTION OF THE INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS (ASTM) STANDARDS. THE CONTRACTOR SHALL, AT HIS EXPENSE, SUPPLY ALL SAMPLES FOR THE TESTING & CERTIFICATES OR RESULTS OF TESTING, THE CONTRACTOR SHALL PROVIDE ALL SAMPLES NECESSARY FOR TESTING, RESULTS OF TESTING, CERTIFICATION & FINAL ACCEPTANCE.

QUALIFICATIONS OF CONTRACTOR

ALL IMPROVEMENTS SHALL BE CONSTRUCTED BY CONTRACTORS LICENSED BY THE ARIZONA STATE REGISTER OF CONTRACTORS, WITH A CLASS OF LICENSE(S) FOR THE SPECIFIC WORK BEING PERFORMED.

CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION METHODS, SEQUENCING & SAFETY DURING CONSTRUCTION.

CONTRACTOR IS REQUIRED TO COMPLY WITH ALL LOCAL, STATE & FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION OF THIS PROJECT.

UNAUTHORIZED WORK

ANY WORK PERFORMED WITHOUT THE KNOWLEDGE AND APPROVAL OF THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

SUSPENSION OF WORK

THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN HIS JUDGMENT, PROGRESS IS UNSATISFACTORY, IMPROPER WORKMANSHIP, IS BEING PERFORMED, WORK BEING DONE IS UNAUTHORIZED OR DEFECTIVE, WEATHER CONDITIONS ARE UNSUITABLE, OR THERE IS DANGER TO THE PUBLIC HEALTH OR SAFETY.

ALTERNATE MANUFACTURER AND MODEL

THE CONTRACTOR SHALL SUBMIT CAREFULLY DOCUMENTED AND CONSIDERED WRITTEN PROPOSALS FOR ALTERNATE MATERIALS AND CONSTRUCTION METHODS. THOSE PROPOSALS THAT ARE FOUND TO BE IN CONFORMITY WITH GOOD ENGINEERING DESIGN AND CAN BE EASILY MAINTAINED BY JURISDICTIONAL FORCES MAY BE GIVEN WRITTEN APPROVAL FOR INCORPORATION IN THE CONSTRUCTION PLANS IF THEY ARE FOUND TO BE IN THE BEST PUBLIC INTEREST.

INTERPRETATION OF PLANS

THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE DIRECTED TO THE ENGINEER. ANY INTERPRETATION OF THE PLANS BY ANYONE OTHER THAN THE ENGINEER SHALL BE RESPONSIBLE FOR ANY CONSEQUENCES THEREOF.

COORDINATION WITH OTHER PROJECTS

CONTRACTOR SHALL COORDINATE WORK WITH ON-GOING AND PROPOSED WORK ADJACENT TO OR NEAR THE PROJECT SITE.

STREET CLOSURES

STREETS CLOSED BECAUSE OF CONSTRUCTION, SHALL BE PROVIDED WITH BARRICADES & HAZARD SIGNS AS REQUIRED BY THE ENGINEER & APPROVED BY YAVAPAI COUNTY.

WATER SUPPLY DURING CONSTRUCTION

ALL WEATHER ACCESS, FIRE HYDRANTS & WATER MAINS, SHALL BE IN PLACE, APPROVED & OPERATIONAL AT ALL TIMES DURING CONSTRUCTION OF ON-SITE COMBUSTIBLE CONSTRUCTION. APPROVAL FROM THE OWNER & UTILITY PROVIDER IS REQUIRED FOR ANY OBSTRUCTION TO ACCESS NECESSARY FOR NORMAL OPERATION & MAINTENANCE OR SHUT DOWN OF THE WATER SYSTEM.

THE LOCATION OF ALL WATER VALVES & FIRE HYDRANTS MUST BE REFERENCED & MADE ACCESSIBLE TO THE OWNER & UTILITY PROVIDER AT ALL TIMES DURING CONSTRUCTION.

THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR & PROVIDE ALL WATER NECESSARY FOR CONSTRUCTION OPERATIONS AT THE CONTRACTOR'S EXPENSE.

BLUE STAKE

LOCATION OF UNDERGROUND UTILITIES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ARS 40-360.22 PRIOR TO ANY EXCAVATION. BLUE STAKE SHALL BE CALLED AT 1'-800' STAKE-IT FOR ACCURATE LOCATION OF UTILITIES AS NECESSARY & PRIOR TO ANY EXCAVATION.

EXISTING UTILITIES

THESE PLANS REPRESENT A REASONABLE EFFORT TO SHOW LOCATIONS OF EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES CAUSED DURING CONSTRUCTION. THE CONTRACTOR IS TO VERIFY THE LOCATION & THE ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION, WHERE PROPOSED UTILITIES ARE TO THE INTO EXISTING STUB-OUTS, MANHOLES, ETC. THE CONTRACTOR SHALL VERIFY THE LOCATION & ELEVATION BY PHOTOLOG, IF NECESSARY, TWO WEEKS PRIOR TO CONSTRUCTION. SHOULD ANY LOCATION OR ELEVATION DIFFER FROM THAT SHOWN ON PLANS, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE PROPER UTILITY OWNER'S AGENT.

IT IS NOT WITHIN THE SCOPE OF THE PLANS FOR THE ENGINEER TO LOCATE, IDENTIFY OR FORESEE EVERY UTILITY CONFLICT WHICH MAY ARISE DURING CONSTRUCTION. THE OWNER SHALL REASONABLY COMPENSATE THE CONTRACTOR FOR WORK REQUIRED TO RELOCATE OR ADJUST EXISTING UTILITIES IN CONFLICT WITH CONSTRUCTION ACTIVITIES OF PROPOSED IMPROVEMENTS. TO THAT END, UTILITIES (AS DEFINED IN MAG SECTION 101.2) WHICH ARE ENCOUNTERED WILL BE ADDRESSED AS FOLLOWS:

1. A UTILITY COORDINATION MEETING SHALL BE COORDINATED BY THE CONTRACTOR PRIOR TO THE START OF ANY WORK. ALL UTILITY ISSUES SHALL BE ADDRESSED IN ACCORDANCE WITH MAG SECTION 105.6.
2. ALL UTILITIES MUST BE LOCATED TO MINIMIZE INTERFERENCE WITH ONE ANOTHER, TO PROVIDE REQUIRED HORIZONTAL & VERTICAL SEPARATIONS & TO PROVIDE MAINTENANCE ACCESS WITHOUT VIOLATING EASEMENT BOUNDARIES.
3. IF PROPOSED IMPROVEMENTS CANNOT BE MODIFIED TO AVOID CONFLICT WITH EXISTING UTILITIES, EXISTING UTILITIES MUST BE RELOCATED AT THE OWNER'S OR UTILITY PROVIDER'S EXPENSE. ALL EXISTING UTILITY RELOCATIONS SHALL BE COORDINATED WITH THE UTILITY PROVIDER TO PREVENT UNNECESSARY INTERRUPTION OF CUSTOMER SERVICE.

RELOCATIONS

UTILITY RELOCATION'S OR ADJUSTMENTS NOTED ON THE PLANS SHALL BE PAID FOR PER THE BID SCHEDULE.

UTILITY RELOCATIONS OR ADJUSTMENTS NOT NOTED ON THE PLANS SHALL BE ADDRESSED ON A CASE BY CASE BASIS. THE ENGINEER SHALL DETERMINE WHAT WORK IS REQUIRED TO PRODUCE THE DESIRED FINAL PRODUCT. IF A UNIT BID PRICE DOES NOT EXIST THEN COMPENSATION MUTUALLY ACCEPTABLE TO THE OWNER, CONTRACTOR & ENGINEER SHALL BE MADE.

THE SEPARATION BETWEEN WATER & ELECTRIC SHALL BE 4 FEET HORIZONTAL & 2 FEET VERTICAL.

IN EITHER SITUATION, WORK ON THE SPECIFIC CASE SHALL NOT PROCEED UNTIL THE AMOUNT OF COMPENSATION IS AGREED UPON. COMPENSATION FOR UTILITY

RELOCATION'S & ADJUSTMENTS SHALL NOT INCLUDE COSTS FOR REPAIR TO THE UTILITY DAMAGED BY THE CONTRACTOR OR HIS SUBCONTRACTOR(S). THE CONTRACTOR IS NOT RELIEVED OF THE RESPONSIBILITY FOR DETERMINING THE LOCATION OF ALL UTILITIES AFFECTING THE WORK. THE APPROPRIATE UTILITY PROVIDER SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. CERTAIN UTILITIES ARE TO REMAIN IN SERVICE DURING THE CONSTRUCTION OF THE FILL & UPON COMPLETION OF THE CONTRACT. THESE UTILITIES SHALL BE PROTECTED DURING THE CONSTRUCTION & CUT OR FILL PLACEMENT SHALL NOT PROHIBIT MAINTENANCE ACCESS TO THESE UTILITIES.

REMOVALS

REMOVAL OF EXISTING IMPROVEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH MAG SECTION 350.

SIGNS, TREES SHRUBS, MAILBOXES & OTHER INCIDENTALS REQUIRING RELOCATION SHALL BE MOVED ONLY FAR ENOUGH TO ALLOW CONSTRUCTION OF THE PROJECT & CAUSE THE LEAST DISRUPTION TO PRIVATE PROPERTY & LANDSCAPE. FINAL POSITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO RELOCATION. ALL RELOCATED ITEMS SHALL CONTINUE TO WORK IN THEIR INTENDED CAPACITY AFTER THE RELOCATION HAS BEEN ACCOMPLISHED. NO SIGNS SHALL BE RELOCATED TO POSITIONS OUTSIDE DESIGNATED RIGHTS-OF-WAY. SAFETY SHALL BE PRIMARY CONSIDERATION IN THE PLACEMENT OF SHRUBBERY & SIGNS WHICH COULD POSSIBLY DISRUPT THE SIGHT DISTANCE OF MOTORISTS.

MISCELLANEOUS REMOVALS & OTHER WORK NECESSITATED AS WORK PROGRESSES & NOT SPECIFICALLY CALLED OUT ON THE PLANS WILL BE CONSIDERED INCIDENTAL WORK.

ELECTRICAL

PROPOSED ELECTRIC DISTRIBUTION SYSTEM, IF SHOWN ON THE PLANS, IS SCHEMATIC & FOR EXHIBIT PURPOSES ONLY, TO ILLUSTRATE HOW THE ELECTRIC & RELATED DRY UTILITIES RELATE TO PROPOSED WATER AND SEWER IMPROVEMENTS. ALL PRIMARY ELECTRIC LOCATIONS, TRANSFORMERS, SERVICES & ANY OTHER ADJUTMENT FEATURES SHALL BE INSTALLED IN ACCORDANCE WITH DESIGN PLANS PROVIDED & EXCLUSIVELY AUTHORIZED BY ARIZONA PUBLIC SERVICE (APS)

DRAINAGE NOTES

WHERE CULVERTS OR DRAINAGE PIPES CROSS GRAVITY SEWERS, PRESSURE SEWERS, OR WATER MAINS, A MINIMUM OF ONE FOOT OF VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN THE TWO PIPES.

CHANNELS & DITCHES SHOWN ON PLANS SHALL DAYLIGHT TO THE APPROPRIATE DESIGN LOCATIONS SO THAT POSITIVE DRAINAGE IS ACHIEVED.

ESTIMATED QUANTITIES

ALL QUANTITIES SHOWN ARE APPROXIMATE & ARE FURNISHED SOLELY FOR THE ENGINEER'S CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTRACTOR TO VERIFY THE ACTUAL QUANTITIES OF WORK REQUIRED & BASE HIS BID ON HIS OWN INDEPENDENT ESTIMATE OF THE WORK SCOPE & QUANTITIES OF MATERIALS REQUIRED. THEY DO NOT NECESSARILY CORRESPOND TO BID SCHEDULE ITEMS. PAYMENT WILL BE BASED ON BID SCHEDULE ITEMS. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR INDEPENDENTLY ESTIMATING QUANTITIES PRIOR TO BIDDING. THE CONTRACTOR REPRESENTS THAT THE TOTAL CONTRACT SUM IS ADEQUATE COMPENSATION FOR COMPLETING THE ENTIRE PROJECT AS SHOWN ON THE PLANS.

ROADWAY EXCAVATION (CUT) & EMBANKMENT (FILL) QUANTITIES REFLECT ONLY THAT REQUIRED FOR CONSTRUCTION OF THE ROADWAY PRISM, UNLESS OTHERWISE NOTED. CUT & FILL QUANTITIES REPRESENT "IN-PLACE" VOLUME. NO ALLOWANCE WILL BE GIVEN FOR SHRINK/SWELL OF NATIVE MATERIAL DISPLACED DURING GRADING OPERATIONS. IF THE CONTRACTOR REQUESTS PAYMENT BASED ON QUANTITIES THAT EXCEED BID QUANTITIES, THE REQUEST SHALL BE ACCOMPANIED BY A SUITABLE EARTHWORK ANALYSIS SEALED BY A REGISTERED PROFESSIONAL CIVIL ENGINEER IN THE STATE OF ARIZONA. TRUCK COUNTS WILL NOT BE ACCEPTED AS PROOF OF FINAL QUANTITIES THAT EXCEED BID QUANTITIES.

THE LOCATION OF EXISTING FEATURES INDICATED ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR MAKING COMPLETE & ACCURATE ON-SITE DETERMINATIONS OF THE LOCATIONS OF ALL UTILITIES, STRUCTURES & FIELD CONDITIONS, WHICH MAY AFFECT THE PROGRESS OF THE WORK.

PERMITS & APPROVALS

ADEQ & YAVAPAI COUNTY REQUIRE PERMITS BE ISSUED PRIOR TO NEW CONSTRUCTION, EXTENSION TO, OR MODIFICATION OF A WATER DISTRIBUTION SYSTEM, SEWAGE COLLECTION OR INDIVIDUAL SEWAGE TREATMENT SYSTEM.

YAVAPAI COUNTY REQUIRES THE ISSUANCE OF A GRADING PERMIT FOR ANY EXCAVATION OR GRADING (INCLUDING PLACEMENT OF FILL) A RIGHT-OF-WAY PERMIT IS REQUIRED PRIOR TO COMMENCING ANY WORK WITHIN ANY YAVAPAI COUNTY RIGHT-OF-WAY.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS & EASEMENTS FROM ALL APPLICABLE JURISDICTIONS PRIOR TO CONSTRUCTION.

CONSTRUCTION STAKING

THE ACCURACY OF ALL CONSTRUCTION WORK SHALL BE MAINTAINED & VERIFIED BY THE DEVELOPER'S SURVEYOR AT THE DEVELOPER'S EXPENSE BY PROVIDING CONSTRUCTION STAKING SUITABLE TO THE ENGINEER. STAKES WILL BE SET ESTABLISHING LINES & GRADES (FINISH OR FLOWLINE) FOR THE CONSTRUCTION INCLUDING ROADS, CURB & GUTTER, SIDEWALKS UTILITIES, STRUCTURE WORKS & OTHER WORK NECESSARY FOR CONSTRUCTION. ALL SURVEY CONTROL SHALL BE SET BY THE DEVELOPER'S SURVEYOR FROM MONUMENTS ACCEPTABLE TO THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR RESTAKING EXPENSES.

CONSTRUCTION OBSERVATIONS

THE ENGINEER SHALL BE NOTIFIED 24 HOURS PRIOR TO BEGINNING DIFFERENT PHASES OF CONSTRUCTION SO THAT OBSERVATIONS MAY BE SCHEDULED.

NO BASE COURSE CONSTRUCTION SHALL BE STARTED UNTIL ALL UTILITY LINES ARE COMPLETED & TESTED UNDER PROPOSED AREAS & THE SUBGRADE HAS BEEN INSPECTED & APPROVED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

NO PAVEMENT SHALL BE PLACED UNTIL BASE COURSE CONSTRUCTION IS INSPECTED & APPROVED BY THE ENGINEER.

SUBMITTAL OF AN ENGINEER'S CERTIFICATE OF COMPLETION IS REQUIRED BY THE ENGINEER FOR ALL WATER & SEWER SYSTEM CONSTRUCTED IMPREMENTS. ANY NECESSARY OBSERVATION & TESTING SHALL BE PROVIDED BY THE ENGINEER AT THE OWNER'S EXPENSE.

AN OBSERVATION OF CONSTRUCTED IMPROVEMENTS WILL BE CONDUCTED BY THE ENGINEER. ANY SPECIAL OBSERVATION & TESTING SERVICES, IF REQUIRED BY THE JURISDICTION, SHALL BE PROVIDED AT THE OWNER'S EXPENSE.

AS-BUILT PLANS

THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF APPROVED SHOP DRAWINGS & AN ACCURATE, CURRENT, AS-BUILT SET OF PLANS ON SITE FOR REFERENCE AT ALL TIMES. THE AS-BUILT PLANS WILL BE FURNISHED BY THE CONTRACTOR TO THE ENGINEER AT THE COMPLETION OF THE PROJECT FOR RECORD. THE AS-BUILT PLANS MUST BE UPDATED DAILY BY THE CONTRACTOR & INCLUDE, IN ADDITION TO THE PLANNED CONSTRUCTION, ANY CHANGES AUTHORIZED BY THE OWNER & ANY UTILITIES DISCOVERED DURING THE TRENCHING OPERATIONS BY SIZE, LOCATION & TYPE REDLINED ONTO THE PLANS BY STATION/DISTANCE/DEPTH.

PRIOR TO APPROVAL OF AN IMPROVEMENT PROJECT, AN "AS-BUILT" PLAN MUST BE SUBMITTED TO THE COUNTY ENGINEER. THE INSCRIPTION CANYON RANCH WATER USERS ASSOCIATION & THE INSCRIPTION CANYON RANCH SANITARY DISTRICT. THE AS-BUILT PLAN SHALL INDICATE THE ACTUAL LOCATION OF WATER MAINS, SEWER MAINS & UNDERGROUND STRUCTURES & ALL SEWER & WATER SERVICES & ALL FITTINGS, VALVES & MANHOLES RELATIVE TO RIGHT-OF-WAY BOUNDARIES, LOT LINE, OR OTHER POINTS OF SURVEY.

THE ENGINEER SHALL PLACE ALL INFORMATION ON REPRODUCIBLE CONSTRUCTION PLANS. THE AS-BUILT REPRODUCIBLE PLANS WILL THEN BE PLACED IN COUNTY RECORDS. APPROPRIATE SUBMITTALS SHALL BE MADE AS REQUIRED TO ALL AGENCIES BY THE DEVELOPER.

FINAL ACCEPTANCE

FINAL ACCEPTANCE OF THE CONSTRUCTION, BY THE YAVAPAI COUNTY ENGINEER, IS REQUIRED BEFORE RELEASING PERMITS & TRANSFERRING OWNERSHIP OF THE IMPROVEMENTS TO THE COUNTY.

APPROVAL OF A PORTION OF THE WORK IN PROGRESS DOES NOT GUARANTEE ITS FINAL ACCEPTANCE. TESTING & EVALUATION MAY CONTINUE UNTIL WRITTEN FINAL ACCEPTANCE OF A COMPLETE WORKABLE UNIT. ACCEPTANCE OF COMPLETED IMPROVEMENTS WILL NOT BE GIVEN UNTIL DEFECTIVE OR UNAUTHORIZED WORK IS REMOVED & FINAL CLEANUP IS COMPLETE.

YAVAPAI COUNTY RESERVES THE RIGHT TO REQUEST MODIFICATIONS TO THESE PLANS DURING CONSTRUCTION IF FIELD CONDITIONS WARRANT & THE ENGINEER CONCURS.

NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURB, PAVEMENT & SIDEWALKS HAVE BEEN SWEPT CLEAN OF DIRT & DEBRIS TO THE SATISFACTION OF THE OWNER & ENGINEER & ALL SURVEY MONUMENTS ARE INSTALLED.

WARRANTY

ANY DEFECTS WHICH APPEAR IN THE WORK WITHIN TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE & WHICH ARE DUE TO IMPROPER WORKMANSHIP

OR INFERIOR MATERIALS SUPPLIED SHALL BE CORRECTED BY & AT THE EXPENSE OF THE CONTRACTOR.

ENGINEER'S GENERAL NOTES

1. ALL IMPROVEMENTS SHALL BE CONSTRUCTED BY CONTRACTOR(S) THAT ARE LICENSED BY THE ARIZONA STATE REGISTER OF CONTRACTORS, WITH A CLASS OF LICENSE(S) FOR THE SPECIFIC WORK BEING PERFORMED.
2. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN COPIES OF ALL APPLICABLE STANDARDS & SPECIFICATIONS WHICH MAY BE NECESSARY TO COMPLETELY & ACCURATELY INTERPRET THESE PLANS.
3. IF TWO OR MORE GIVEN SPECIFICATIONS DIFFER IN CONTENT, THE MORE RESTRICTIVE OR STRINGENT SPECIFICATION, IN THE OPINION OF THE PROJECT ENGINEER WILL GOVERN.
4. THE CONTRACTOR IS REQUIRED TO COMPLY WITH ALL LOCAL, STATE & FEDERAL LAWS & REGULATIONS APPLICABLE TO THE CONSTRUCTION OF THIS PROJECT.
5. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AT HIS OWN EXPENSE, SUCH PERMITS AS ARE REQUIRED FROM THE APPROPRIATE AGENCIES.
6. ALL CONTRACTORS & SUBCONTRACTORS SHALL COMPLY WITH ALL APPLICABLE OSHA REGULATIONS.
7. THE GENERAL CONTRACTOR & ANY SUBCONTRACTORS PERFORMING WORK SHOWN ON THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK & THE PUBLIC IS PROTECTED.
8. THE CONTRACTOR & ANY SUBCONTRACTORS SHALL HAVE A COMPLETE & CURRENT SET OF PLANS ON-SITE AT ALL TIMES. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO SUPPLY ANY SUBCONTRACTORS WITH THESE PLANS.
9. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR & PROVIDE ALL NECESSARY WATER FOR HIS CONSTRUCTION OPERATION AT HIS OWN EXPENSE.
10. THE CONTRACTOR SHALL GUARD AGAINST DAMAGE DURING CONSTRUCTION TO EXISTING PROPERTIES & IMPROVEMENTS. ANY ITEMS DAMAGED BY THE CONSTRUCTION SHALL BE REPLACED IN KIND OR BETTER AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION METHODS, SEQUENCING & SAFETY DURING CONSTRUCTION.
12. THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK.
13. PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL BE THOROUGHLY SATISFIED AS TO THE ACTUAL CONDITIONS & REQUIREMENTS OF THE WORK. ALL QUANTITIES SHOWN ON THE PLANS ARE APPROXIMATE & ARE FURNISHED SOLELY FOR THE CONTRACTOR'S CONVENIENCE & MAY NOT CORRESPOND TO BID SCHEDULE ITEMS. PAYMENT SHALL BE BASED ON BID SCHEDULE ITEMS FOR ACTUAL QUANTITIES PROVIDED & INSTALLED. THE CONTRACTOR SHALL NOT BE RELIEVED OF HIS RESPONSIBILITY FOR INDEPENDENTLY ESTIMATING WORK QUANTITIES PRIOR TO BIDDING. NO CLAIM SHALL BE MADE AGAINST THE OWNER OR THE ENGINEER FOR ANY ALLEGED MISUNDERSTANDING OF THE CONDITIONS, QUANTITIES OR NATURE OF THE WORK.
14. THESE CONSTRUCTION PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE DIRECTED TO THE ENGINEER. ANY INTERPRETATION OF THE PLANS BY ANYONE OTHER THAN THE ENGINEER SHALL BE RESPONSIBLE FOR ANY CONSEQUENCES THEREOF.
15. THE CONTRACTOR MAY SUBMIT CAREFULLY DOCUMENTED & CONSIDERED WRITTEN PROPOSALS FOR ALTERNATE MATERIALS & CONSTRUCTION METHODS. THOSE PROPOSALS THAT ARE FOUND TO BE IN CONFORMITY WITH GOOD ENGINEERING DESIGN & CAN BE EASILY MAINTAINED BY JURISDICTIONAL FORCES MAY BE GIVEN WRITTEN APPROVAL FOR INCORPORATION IN THE CONSTRUCTION PLANS IF THEY ARE FOUND TO BE IN THE BEST PUBLIC INTEREST.
16. THE ENGINEER MAY ORDER ANY OR ALL WORKMANSHIP & MATERIALS USED FOR THIS PROJECT TO BE TESTED, ACCORDING TO APPLICABLE STANDARDS. THE CONTRACTOR SHALL SUPPLY ALL SAMPLES FOR THE TESTING & CERTIFICATES OR RESULTS OF TESTING AT HIS EXPENSE.
17. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE & APPROVAL OF THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE IS SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
18. THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN HIS JUDGMENT, PROGRESS IS UNSATISFACTORY, IMPROPER WORKMANSHIP IS BEING PERFORMED, WORK BEING DONE IS UNAUTHORIZED OR DEFECTIVE, WEATHER CONDITIONS ARE UNSUITABLE OR THERE IS DANGER TO THE PUBLIC HEALTH OR SAFETY.
19. THESE PLANS DO NOT REPRESENT THE RESULTS OF A BOUNDARY SURVEY. NO BOUNDARY SURVEY WAS PERFORMED OR IS IMPLIED BY THESE PLANS.
20. CONSTRUCTION STAKING SHALL BE THE CONTRACTOR'S RESPONSIBILITY WITH CONTROL PROVIDED BY THE DESIGN ENGINEER. THE CONTRACTOR SHALL CONTACT THE ENGINEER 48 HOURS PRIOR TO STARTING WORK TO SCHEDULE STAKING.
21. THE CONTRACTOR SHALL MAKE NO CLAIM AGAINST THE OWNER OR THE ENGINEER REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE ENGINEER OR SURVEYOR UNLESS ALL SURVEY STAKES SET BY THE ENGINEER OR SURVEYOR ARE MAINTAINED INTACT & CAN BE VERIFIED AS TO THEIR ORIGIN. IF, IN THE OPINION OF THE ENGINEER, THE STAKES ARE NOT MAINTAINED INTACT & CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE CONTRACTOR.
22. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF AS-BUILT PLANS ON SITE FOR REFERENCE AT ALL TIMES. THE AS-BUILT PLANS WILL BE FURNISHED BY THE CONTRACTOR TO THE ENGINEER AT THE COMPLETION OF THE PROJECT FOR RECORD. THE AS-BUILT PLANS MUST BE UPDATED DAILY BY THE CONTRACTOR & INCLUDE, IN ADDITION TO THE PLANNED CONSTRUCTION, ANY CHANGES AUTHORIZED BY THE ENGINEER & ANY UTILITIES DISCOVERED DURING THE TRENCHING OPERATIONS BY SIZE, LOCATION & TYPE, REDLINED ONTO THE PLANS BY STATION, DISTANCE & DEPTH.

THE CONTRACTOR SHALL WARRANT ALL WORK FOR A MINIMUM OF A TWO YEAR PERIOD BEGINNING AFTER FINAL ACCEPTANCE IS GIVEN BY THE ENGINEER.

HDPE CULVERT PIPE INSTALLATION

ALL HIGH DENSITY POLYETHYLENE (HDPE) PIPE & FITTINGS SHALL CONFORM TO MAG SECTION 738. INSTALLATION OF HDPE PIPE IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO APPLICABLE YAVAPAI COUNTY PUBLIC WORKS (YCPW) STANDARDS.

FOR TRAFFIC INSTALLATIONS, BACKFILL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ASTM D2321 / CSA B182.11-11. GRANULAR BEDDING AND BACKFILL MATERIAL SHALL BE PER MAG SECTION 601 WITH 100% PASSING 1" SIEVE AND MAXIMUM 10 PLASTICITY INDEX (PI). THE PERCENT PASSING #200 PLUS PI SHALL NOT EXCEED 22. EXPOSED SUBGRADE, BEDDING AND BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM D-698.

BEDDING SHALL BE NO LESS THAN 6" THICK. HAUNCH BACKFILL TO PIPE SPRINGLINE, INITIAL BACKFILL TO 6" ABOVE PIPE CROWN AND FINAL BACKFILL (AS BOTTOM OF ROAD SUBGRADE) SHALL BE PLACED IN 6" LIFT TAMP BACKFILL MATERIAL TO ACHIEVE SPECIFIED COMPACTION. DO NOT USE MECHANICAL COMPACTION EQUIPMENT DIRECTLY ON THE PIPE ITSELF. CONSTRUCTION OF EACH LIFT SHOULD BE REPEATED UNTIL BACKFILL IS COMPLETED.

FLOWABLE BACKFILL CAN BE USED AS AN ALTERNATIVE TO COMPACTED GRANULAR MATERIAL, ALTHOUGH SPECIAL CARE IS NECESSARY TO PREVENT THE PIPE FROM FLOATING OR MISALIGNING. WITH FLOWABLE BACKFILL, THE PIPE MUST BE WEIGHTED DOWN OR ANCHORED. FLOWABLE FILL MAY ALSO BE POURED IN LAYERS THAT ARE ALLOWED TO CURE BEFORE THE NEXT LAYER IS POURED. PROPER INSTALLATION OF FLOWABLE FILL IS CRITICAL TO STRUCTURAL PERFORMANCE OF THE PIPE.

HDPE PIPE INSTALLED IN TRAFFIC AREAS MUST HAVE 1" MINIMUM COVER OVER THE CROWN FOR PIPES 48" DIAMETER OR LESS AND 2" MINIMUM COVER FOR PIPES GREATER THAN 48" DIAMETER. MINIMUM COVER IS MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT.

STREET CONSTRUCTION

STREET CONSTRUCTION SHALL CONFORM TO THE PROJECT SOILS REPORT, YAVAPAI COUNTY PUBLIC WORKS REQUIREMENTS, MAG SPECIFICATIONS & ANY ADDITIONAL PROVISIONS NOTED HEREIN. THE PROJECT SOILS REPORT, PREPARED BY THE PROJECT SOILS ENGINEER, IS THE BASIS FOR EARTHWORK & PAVEMENT DESIGN. COPIES OF THE REPORT ARE AVAILABLE FROM THE OWNER & AT THE OFFICE OF THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR QUALITY CONTROL TESTING BY A LABORATORY ACCREDITED BY THE AASHTO ACCREDITATION PROGRAM (AAP). ALL ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS

UNLESS OTHERWISE NOTED.

EARTHWORK

EARTHWORK SHALL CONFORM TO APPLICABLE MAG SPECIFICATIONS. CLEARING & GRUBBING SHALL CONFORM TO MAG SECTION 201, ROADWAY EXCAVATION SHALL CONFORM TO MAG SECTION 205 & ROADWAY EMBANKMENT (FILL) CONSTRUCTION SHALL CONFORM TO MAG SECTION 211.

SUBBASE FILL SHALL CONSIST OF ONSITE OR IMPORTED SOILS. IMPORTED SOILS, IF ANY, SHALL HAVE A MAXIMUM PLASTICITY INDEX OF 12, WITH THE FOLLOWING GRADATION:

GRADATION (ASTM C136)	% PASSING
6	100
No. 4	40-100
No. 200	40 MAX

FILL SHALL BE PLACED IN HORIZONTAL LIFTS AT THICKNESSES CONSISTENT WITH COMPACTION EQUIPMENT USED TO ACHIEVE UNIFORM DENSITIES THROUGHOUT LIFT THICKNESS. FILLS LESS THAN 10 FEET HIGH SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99, METHOD A. THE CONTRACTOR SHALL PROVIDE COMPACTION TESTS FOR EVERY 5000 SQUARE FEET OF FILL SURFACE FOR EACH VERTICAL LIFT OF FILL CONSTRUCTION. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER DAILY.

IT IS THE INTENT OF THE OWNER THAT ALL OF THE MATERIAL NECESSARY TO CONSTRUCT ROADWAY EMBANKMENT (FILL) WILL BE AVAILABLE ON SITE. HOWEVER, THE BID SCHEDULE ITEM FOR FILL CONSTRUCTION IS INTENDED TO INCLUDE FULL PAYMENT FOR ALL MATERIAL REQUIRED TO BUILD THE PROJECT & THE DISPOSAL OF ANY EXCESS MATERIAL FROM THE SITE.

SUBGRADE PREPARATION

SUBGRADE PREPARATION SHALL CONFORM TO MAG SECTION 301 & ANY ADDITIONAL PROVISIONS NOTED IN THE PROJECT GEOTECHNICAL SOIL EXPLORATION REPORT PREPARED BY ENGINEERING & TESTING CONSULTANTS INC, DATED FEBRUARY 26, 2019, UNLESS OTHERWISE NOTED. NATIVE SUBGRADE SOIL TO RECEIVE PAVING SHALL BE STRIPPED OF VEGETATION, DEBRIS, ORGANIC RICH SOILS, TREES & OTHER DELETERIOUS MATERIALS. THE SUBGRADE SHALL BE SCARIFIED & COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO TEST T99, METHOD A OR METHOD C-191. CLAYEY SOILS SHALL BE COMPACTED & MAINTAINED (UNTIL COVERED) AT A MOISTURE CONTENT IN THE RANGE OF OPTIMUM -4 TO +1% OF OPTIMUM. GRANULAR SOILS WILL BE ±2% OF OPTIMUM. EXISTING SLOPING AREAS STEEPER THAN 5:1 (HORIZONTAL TO VERTICAL) SHALL BE BENCHED 5:1 TO REDUCE THE POTENTIAL FOR SLIPPAGE BETWEEN EXISTING SLOPES & NEW FILLS. BENCHES SHALL BE LEVEL & WIDE ENOUGH TO ACCOMMODATE COMPACTION & EARTH MOVING EQUIPMENT. ISOLATED CLAY POCKETS, IF ANY, SHALL BE OVER EXCAVATED BELOW SUBGRADE & REPLACED WITH GRANULAR MATERIAL. WATER SHALL BE INTERCEPTED & PREVENTED FROM FLOWING DOWN THE FACE OF THE CONSTRUCTED SLOPE.

AGGREGATE BASE COURSE

AGGREGATE BASE COURSE MATERIAL SHALL CONFORM TO MAG SECTIONS 310 & 702 & SHOULD BE WELL GRADED WITHIN THE FOLLOWING LIMITS:

SIZE	% PASSING
1-1/2"	100
No. 4	38-65
No. 8	25-60
No. 30	10-40
No. 200	3-12

THE MAXIMUM PLASTICITY INDEX SHALL NOT EXCEED 5 & THE PERCENTAGE OF WEAR SHALL NOT EXCEED 40 AFTER 500 REVOLUTIONS PER MAG SECTION 702. CINDERS ARE NOT TO BE USED FOR AGGREGATE BASE COURSE MATERIAL.

ASPHALT CONCRETE

THE WORK & CONSTRUCTION REQUIREMENTS UNDER THIS SECTION SHALL BE IN ACCORDANCE WITH MAG SECTIONS 321 & 710. MIX DESIGN SHALL BE IN ACCORDANCE WITH MAG SECTION 321.10. CORE SAMPLES SHALL BE TAKEN BY THE CONTRACTOR IN ACCORDANCE WITH MAG SECTION 321.14.

IF THERE IS ANY REASON TO BELIEVE PAVEMENT COMPACTION OR THICKNESS IS DEFICIENT, THE CONTRACTOR MAY BE REQUIRED TO REMOVE & REPLACE ANY PORTIONS, AT THE DISCRETION OF THE ENGINEER, AT NO COST TO THE OWNER. THE OWNER MAY CONSIDER PAYMENT PENALTIES FOR DEFICIENT PAVING IN ACCORDANCE WITH MAG SECTION 310.10.

PAVING NOTES

THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATION & GENERAL CONDITION OF ALL EXISTING TIE-IN & MATCHING POINTS OF PAVEMENT PRIOR TO ANY STREET CONSTRUCTION. SHOULD ANY LOCATIONS, ELEVATIONS, CROSS SLOPES, OR CONDITIONS DIFFER FROM WHAT IS SHOWN ON THE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR APPROPRIATE CORRECTIVE ACTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY COSTS INCURRED IF THIS PROCEDURE IS NOT FOLLOWED.

ALL VALVE BOXES, MANHOLE FRAMES & COVERS, OR OTHER UTILITY APPURTENANCES WITHIN THE CONSTRUCTION LIMITS SHALL BE ADJUSTED TO FINAL FINISH GRADE, WHETHER SPECIFICALLY SHOWN ON THE PLANS OR NOT. PER MAG SECTION 345 AS NECESSARY FOR A COMPLETE JOB, OR AS DESIGNATED BY THE ENGINEER, WHERE NEW WATER METERS ARE INSTALLED IN THE SIDEWALKS, THE NEW BOXES & COVERS SHALL BE SET FLUSH WITH THE SIDEWALK GRADE. FIRE HYDRANT SIDEWALK FLANGES SHALL BE SET 0.1' ABOVE ADJACENT FINISH GRADES.

POSITIVE DRAINAGE SHALL BE PROVIDED DURING CONSTRUCTION OF THE PROPOSED PAVEMENT STRUCTURE. THE CONSTRUCTED GRADIENT OF PAVED SURFACES SHALL ENSURE POSITIVE DRAINAGE & WATER IS NOT ALLOWED TO POND IN AREAS DIRECTLY ADJOINING PAVED SECTIONS.

IF QUESTIONS ARISE, EXACT POINT OF MATCHING TERMINATION & PAVING, IF NECESSARY, SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

EXISTING STREET & TRAFFIC SIGNS WILL BE MAINTAINED DURING CONSTRUCTION & RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

PRIOR TO THE PLACEMENT OF CURB OR CURB & GUTTER, THE CONTRACTOR SHALL CONTACT THE ENGINEER AT LEAST 48 HOURS IN ADVANCE TO VERIFY CURB STRING LINE & FORMWORK. THE ENGINEER RESERVES THE RIGHT TO ADJUST CURB STRING LINES, GRADE STAKES, OR FORMWORK PRIOR TO THE PLACEMENT OF CURB OR CURB & GUTTER, ANY CUTS OR FILLS IN THE BASE COURSE LAYER AS A RESULT OF THE STRING LINE ADJUSTMENTS IS INCIDENTAL TO THE WORK PERFORMED. THE CONTRACTOR SHALL PROVIDE SUFFICIENT EQUIPMENT & PERSONNEL TO PERFORM THE STRING LINE TEST IN THE PRESENCE OF THE ENGINEER.

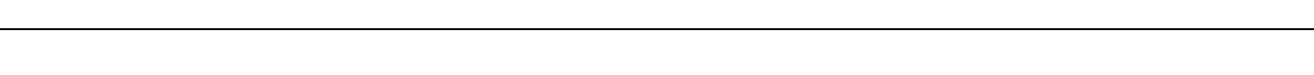
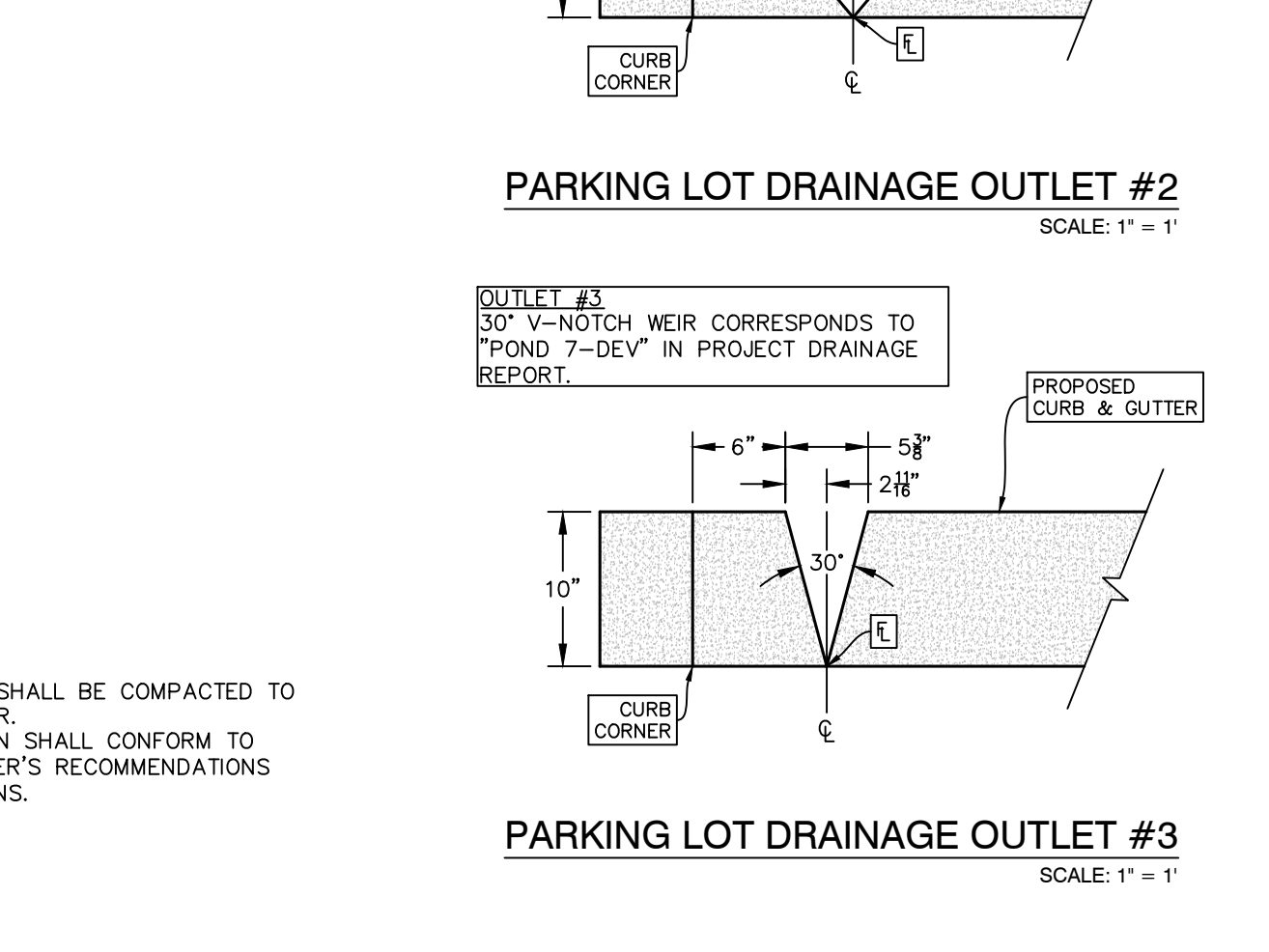
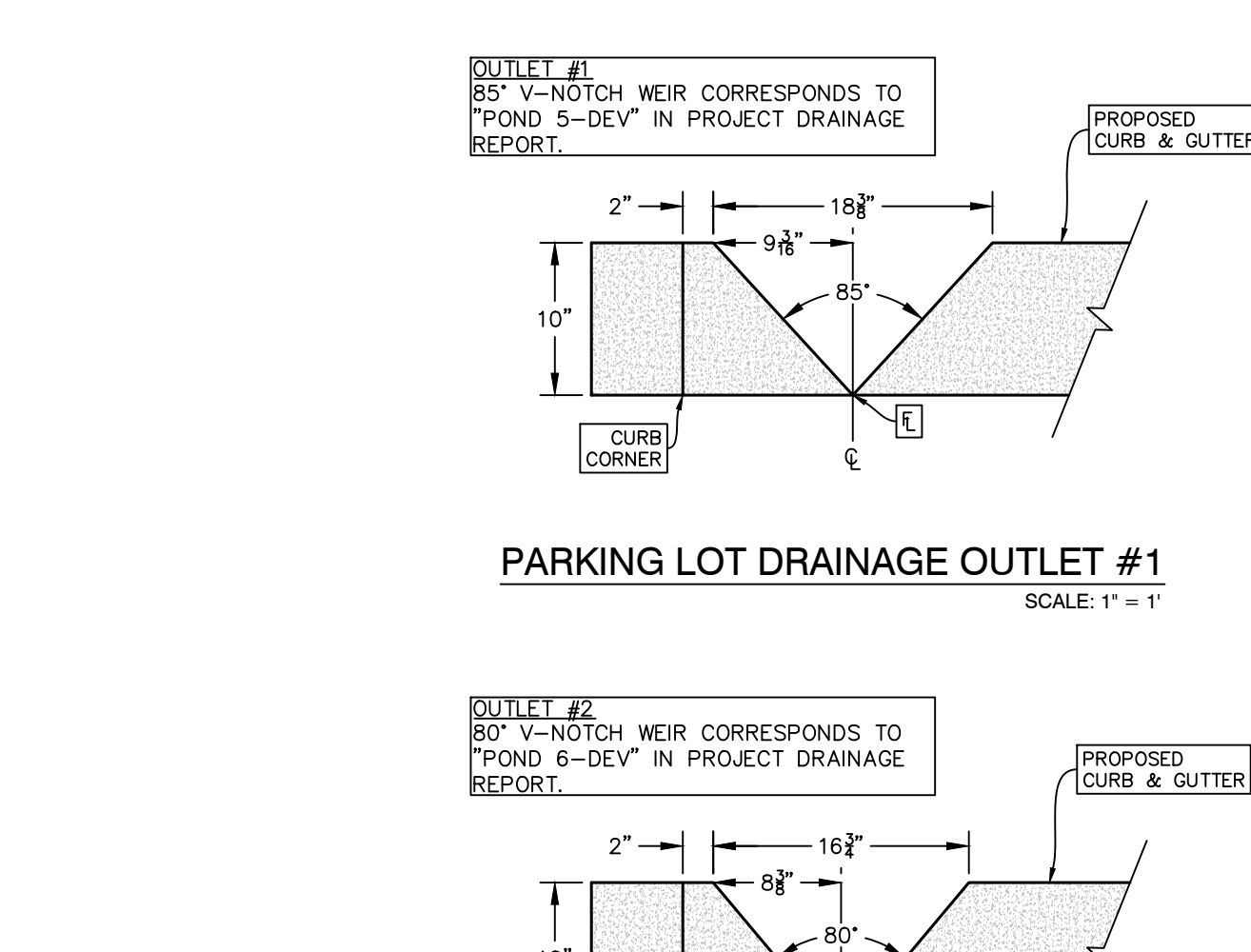
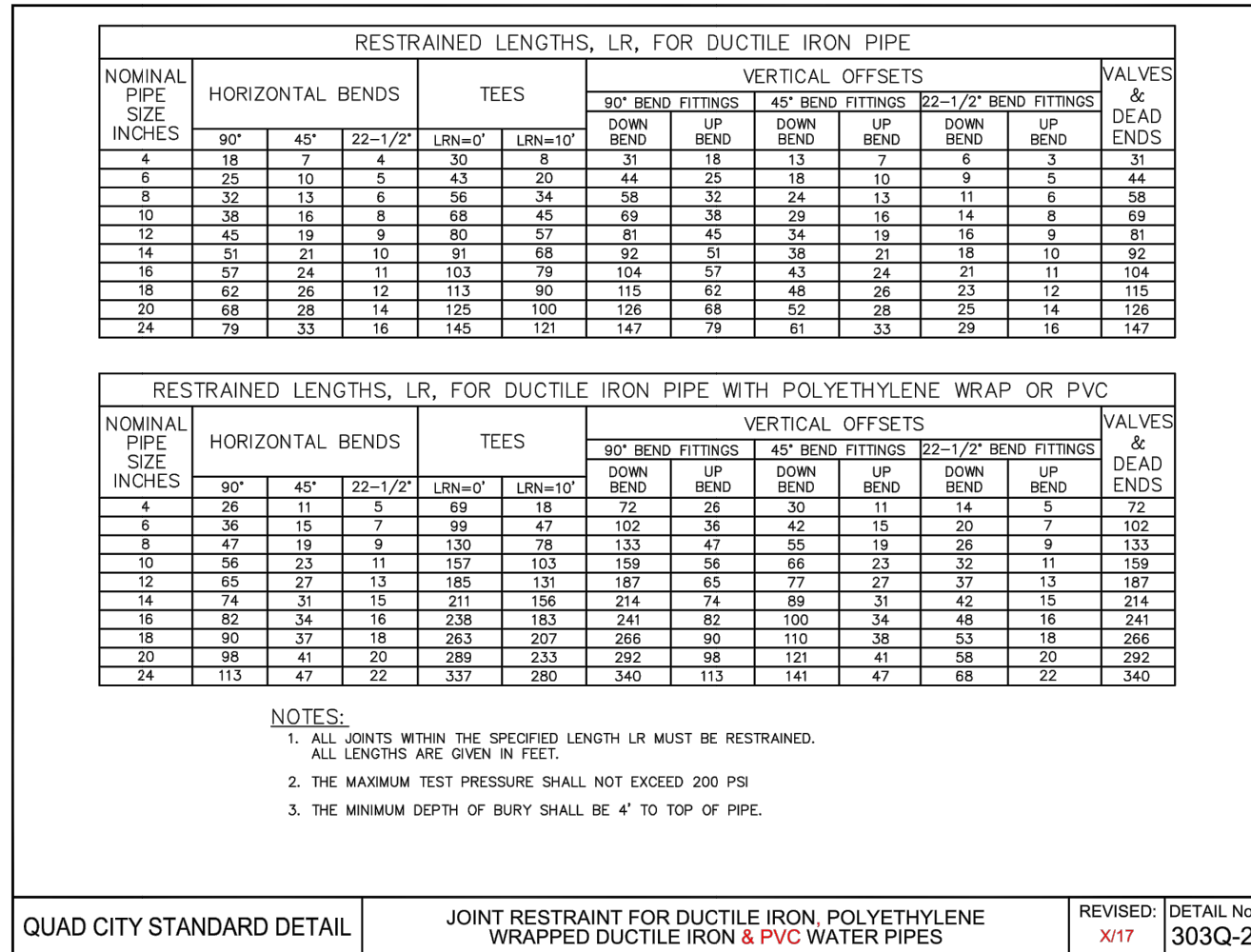
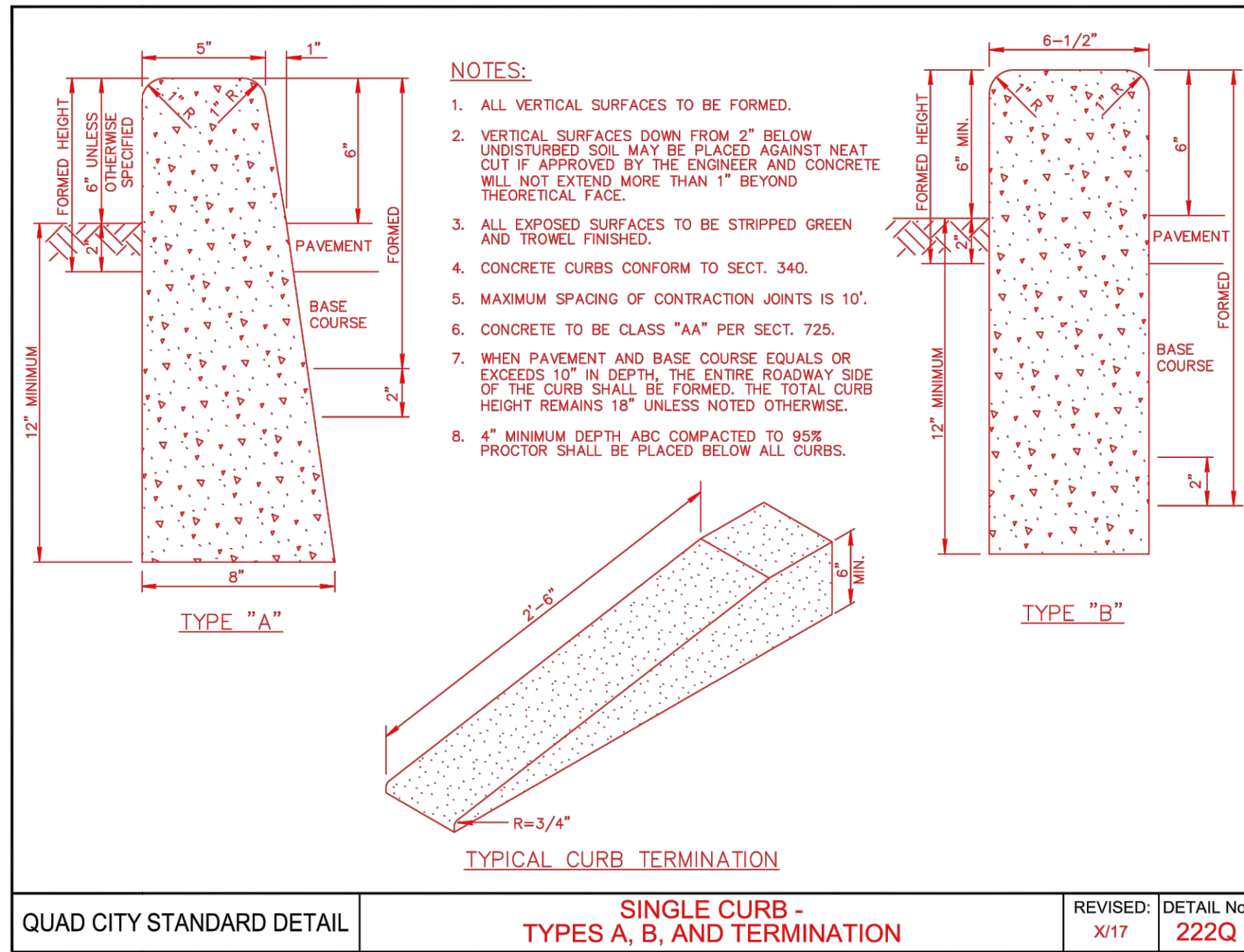
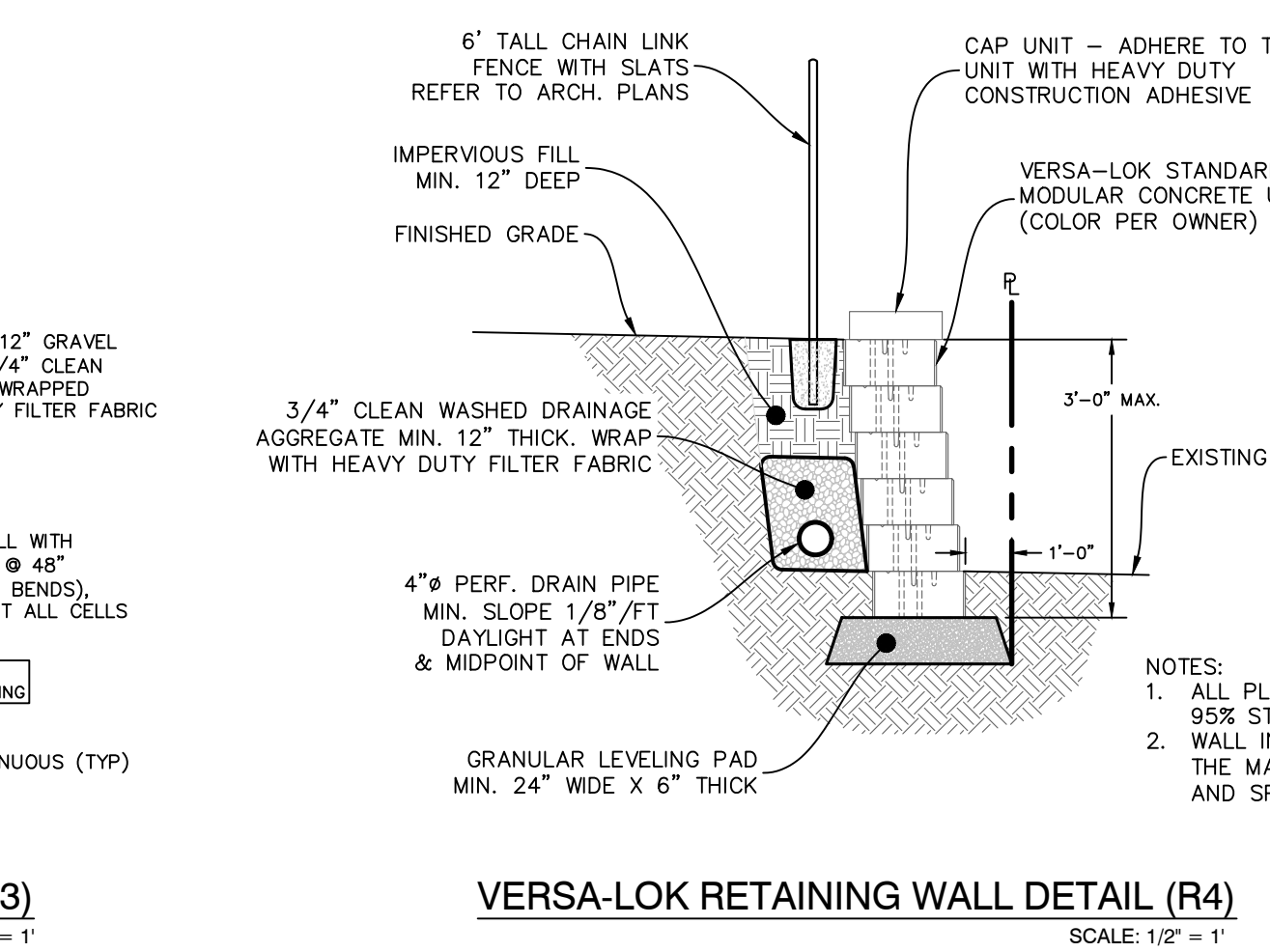
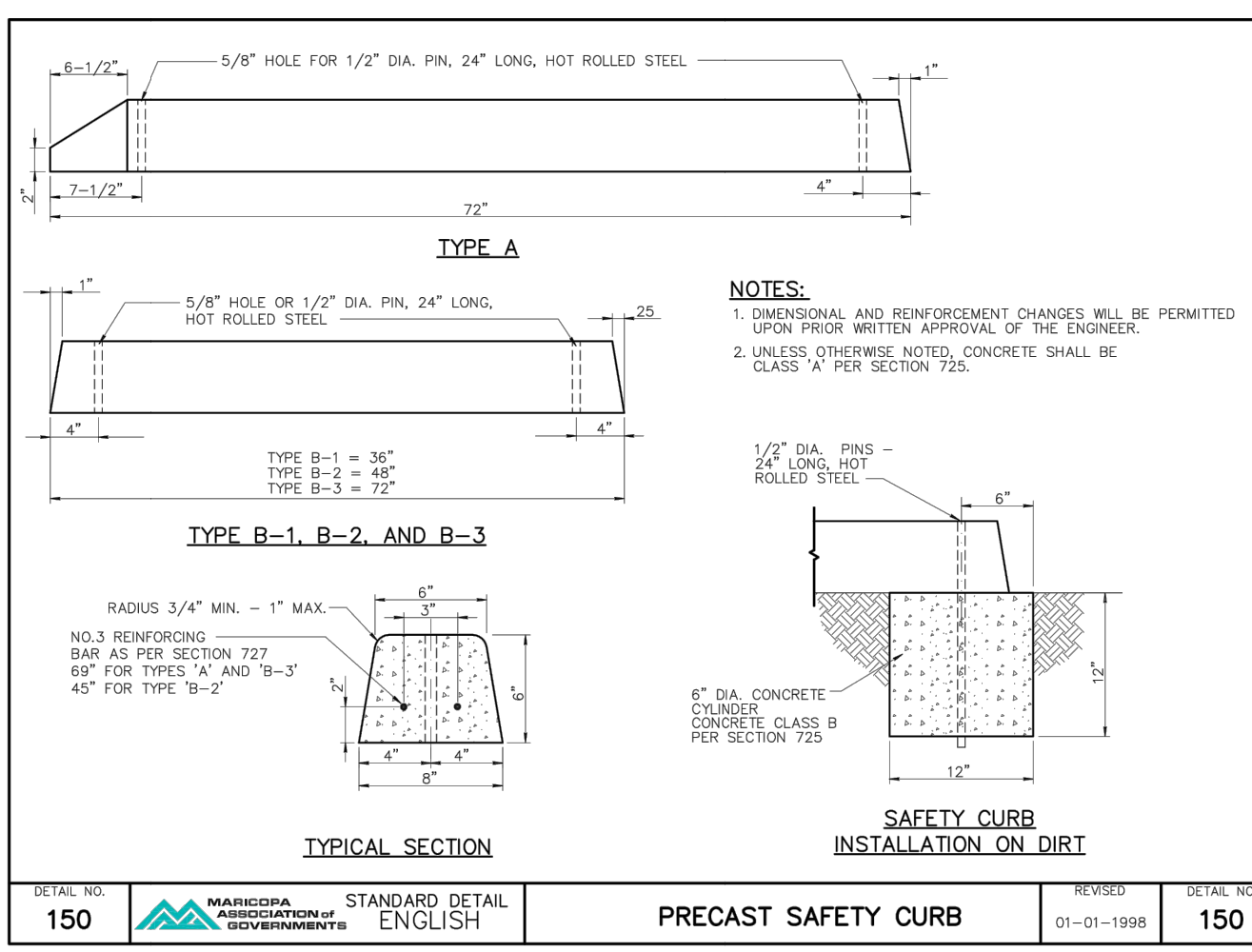
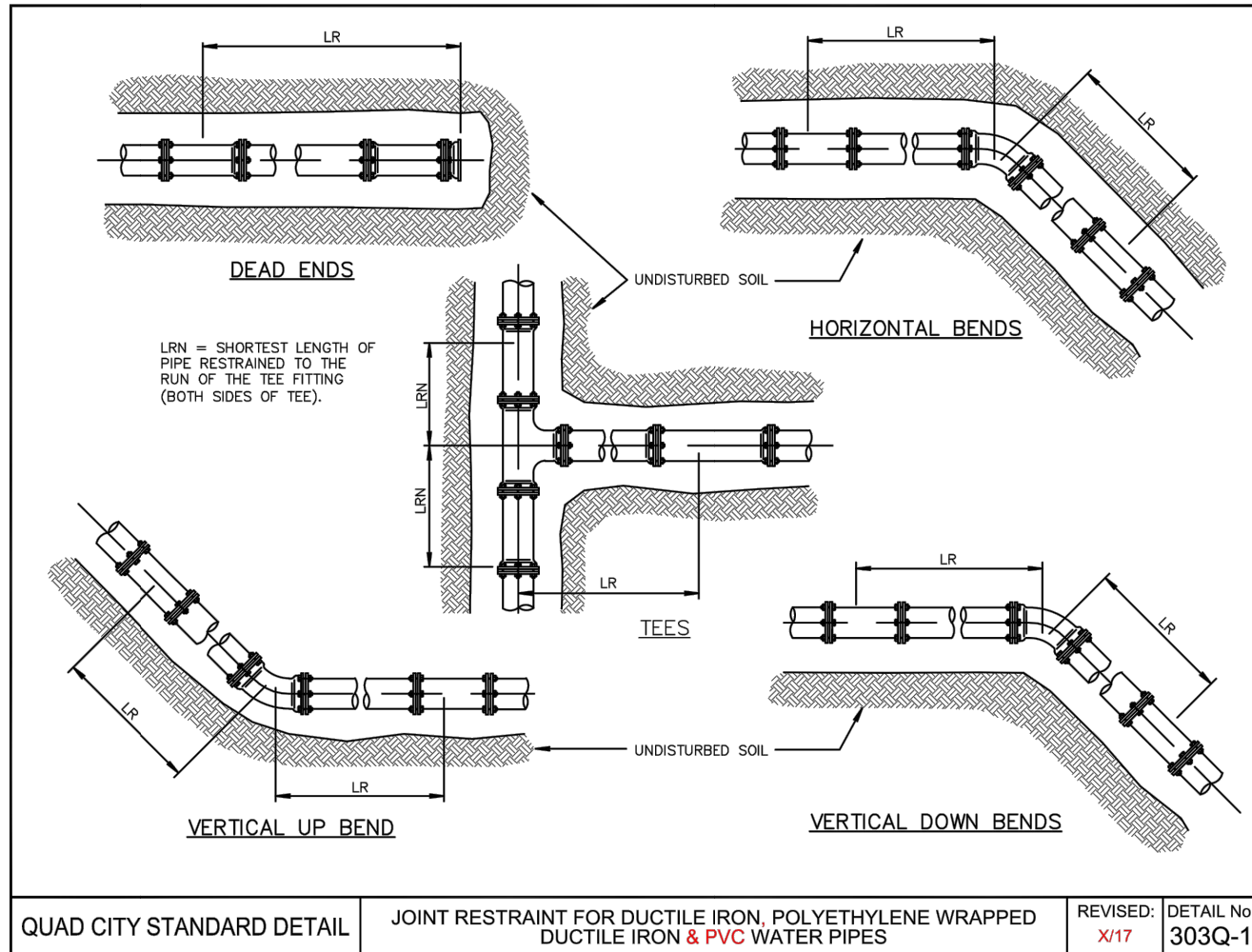
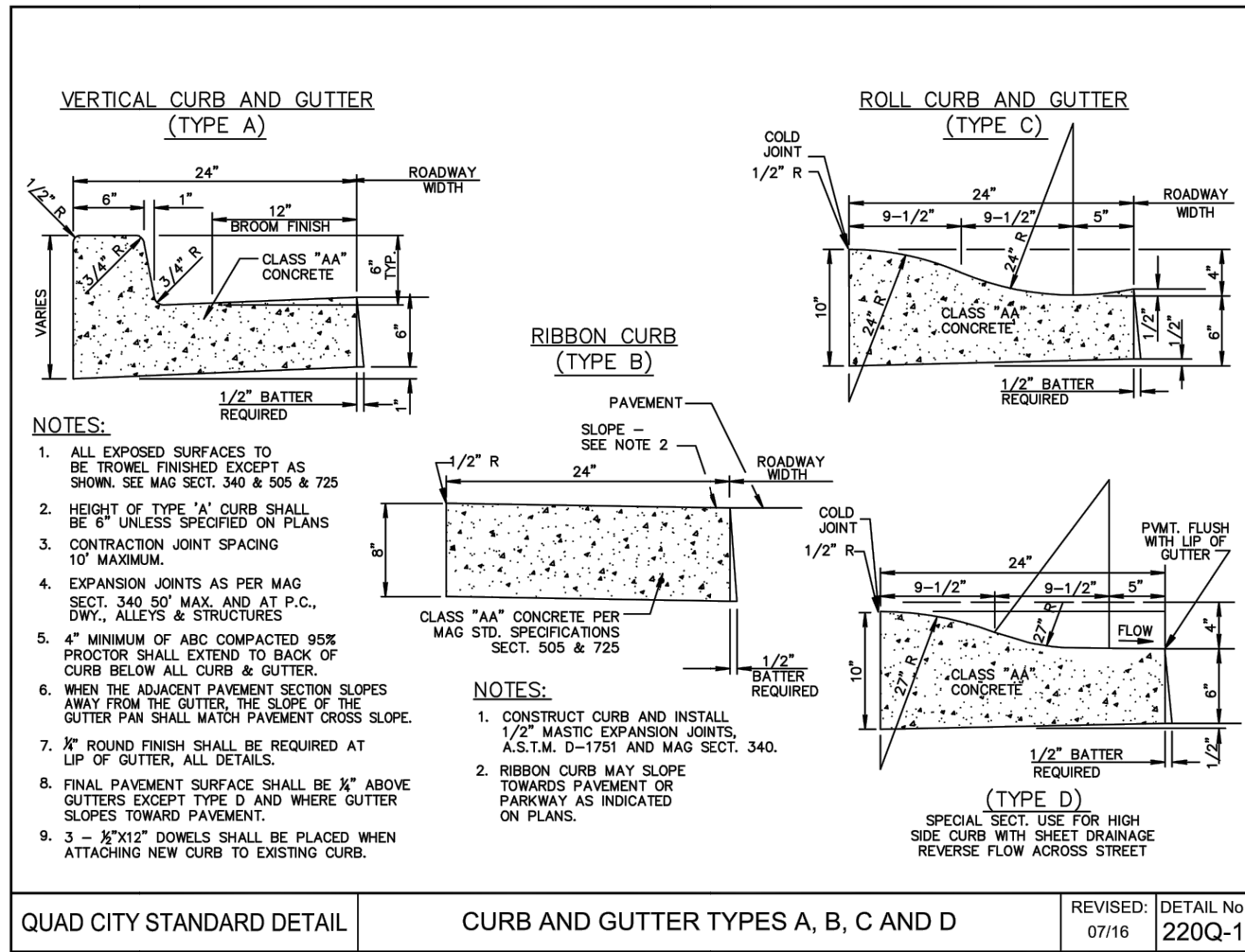
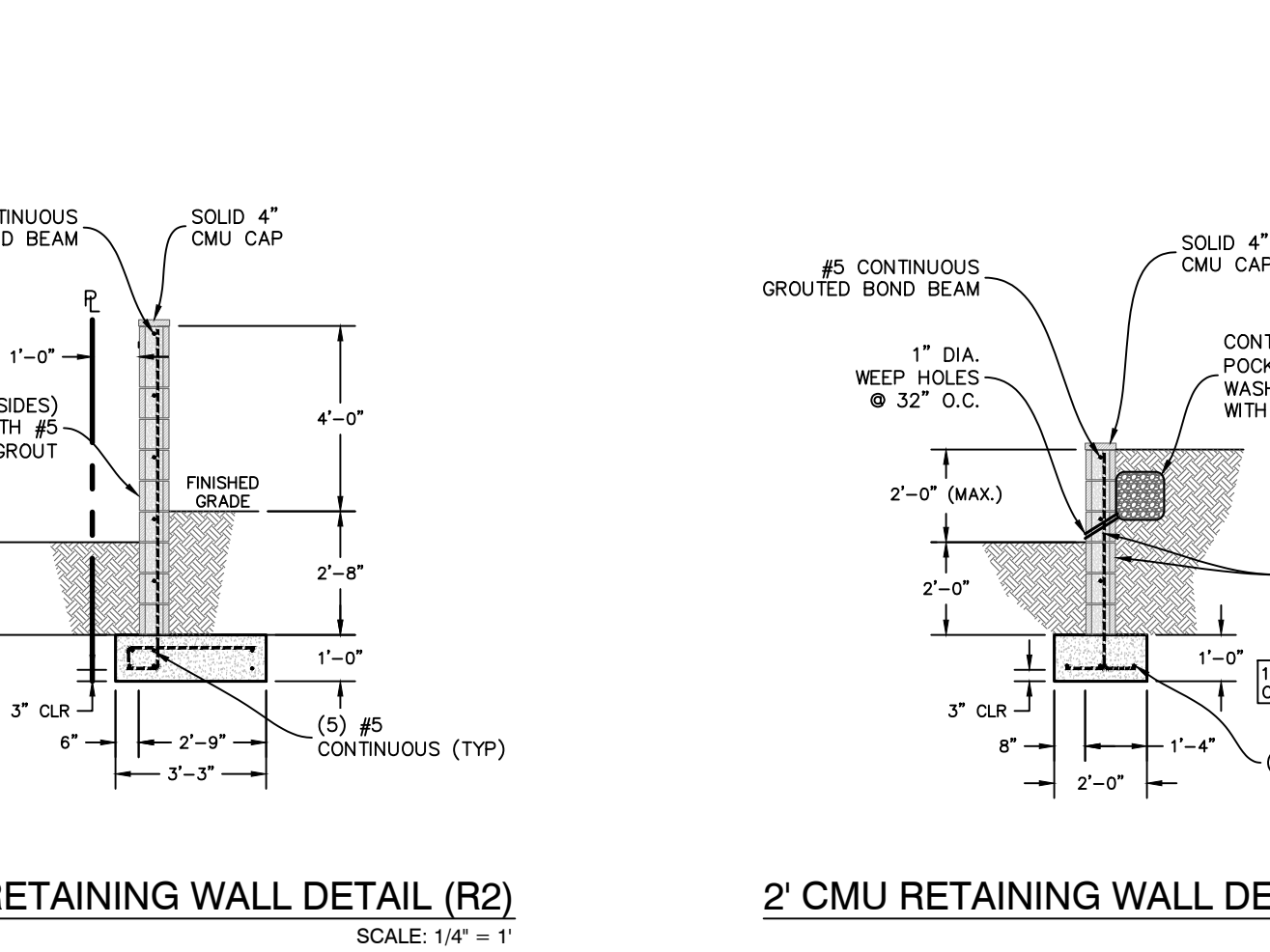
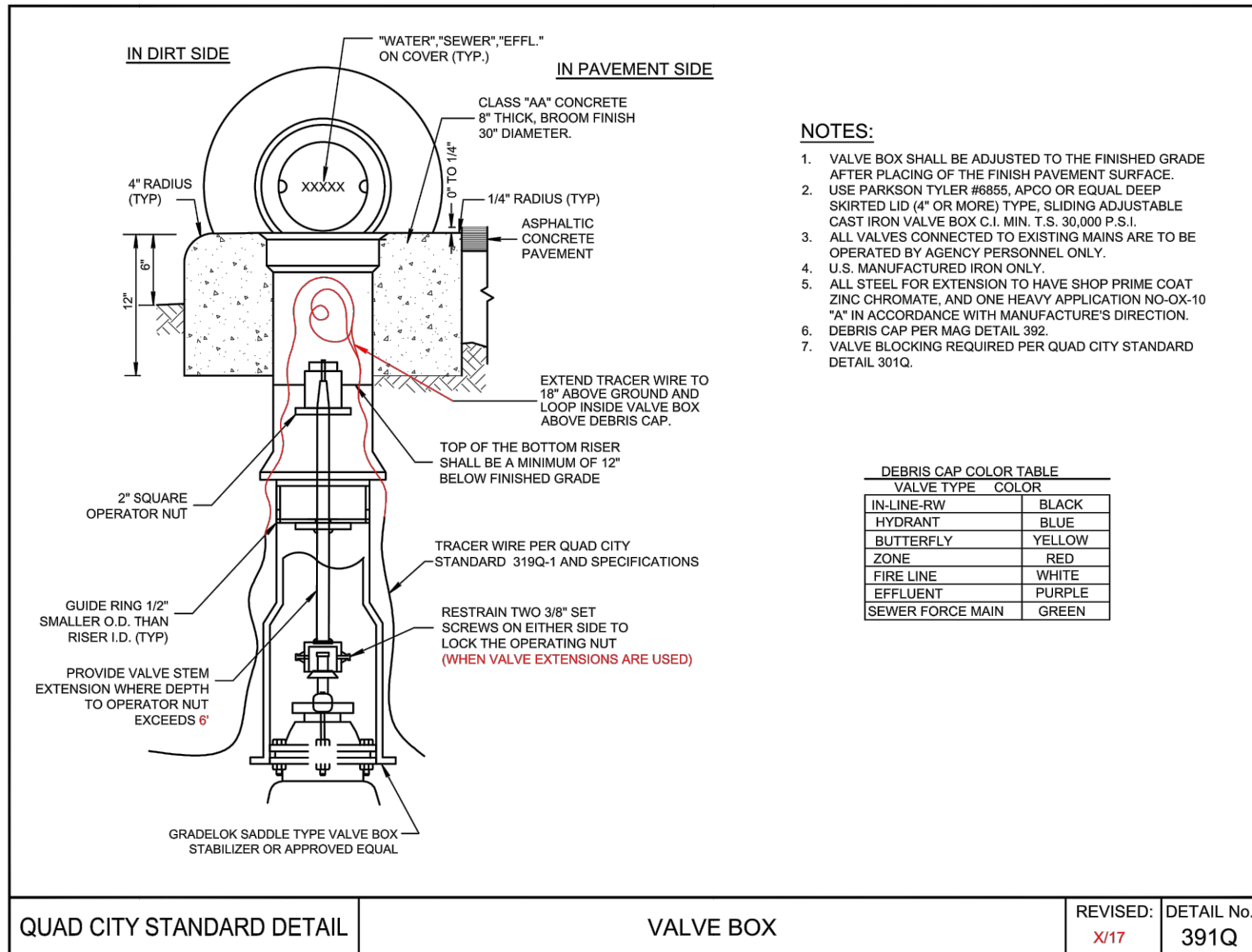
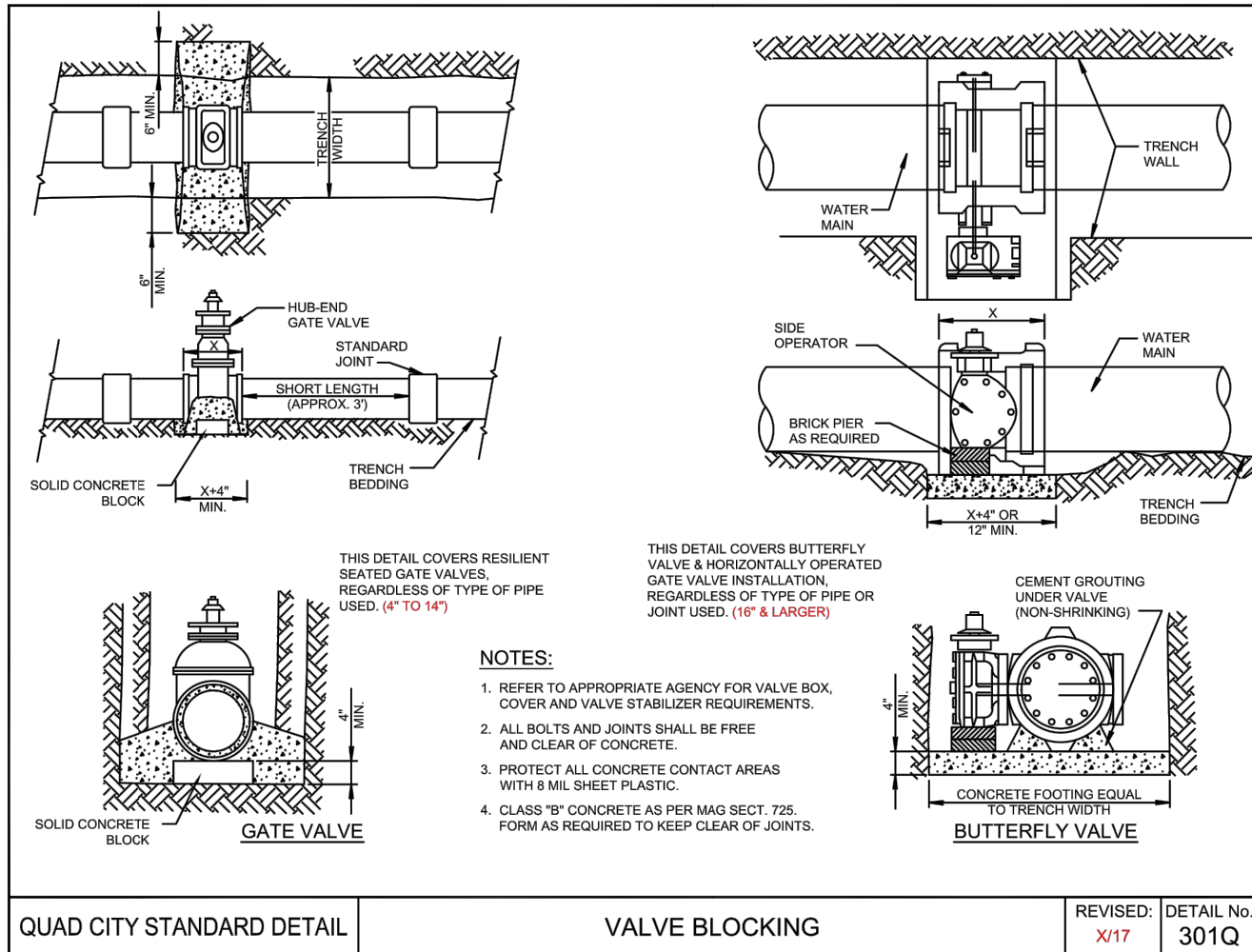
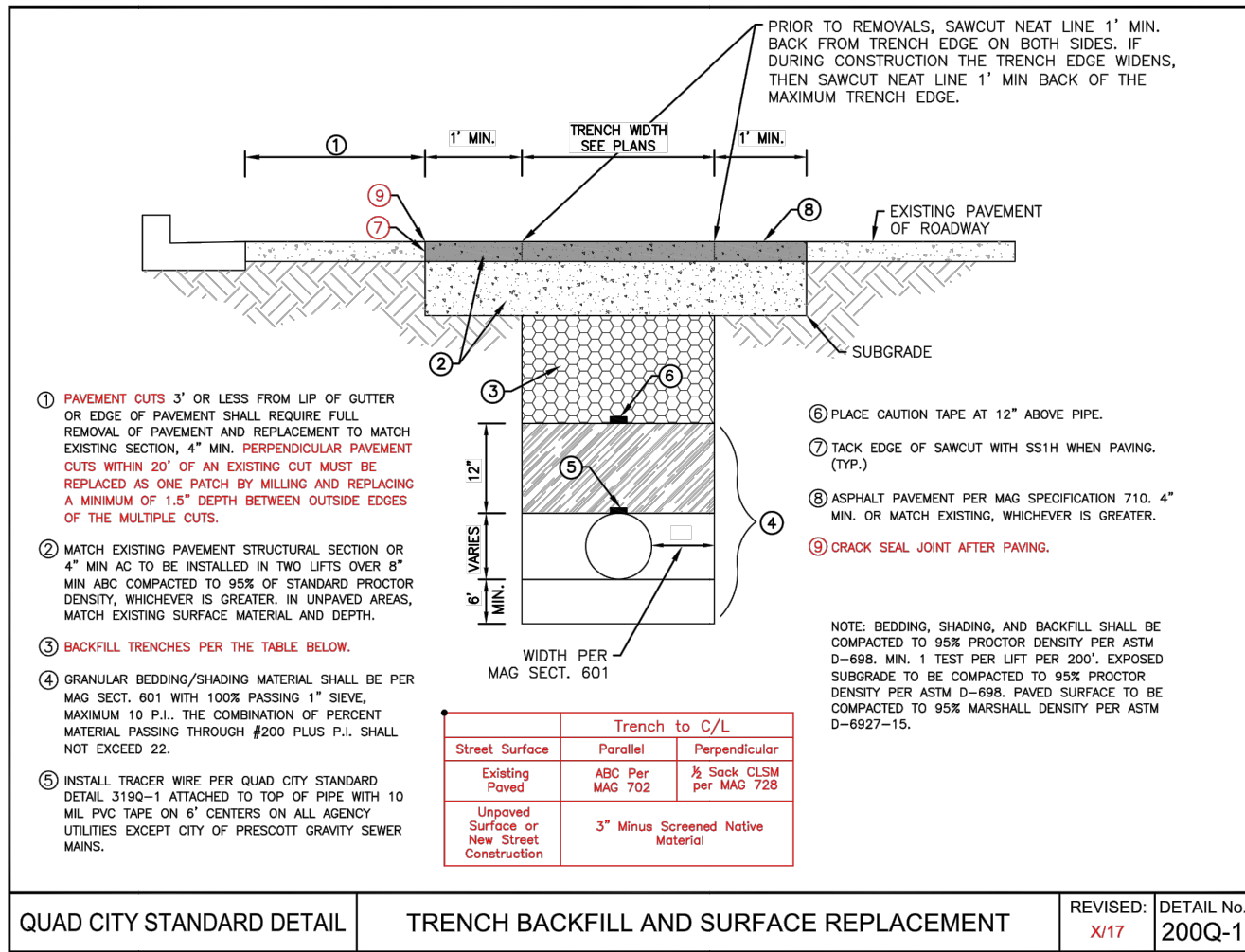
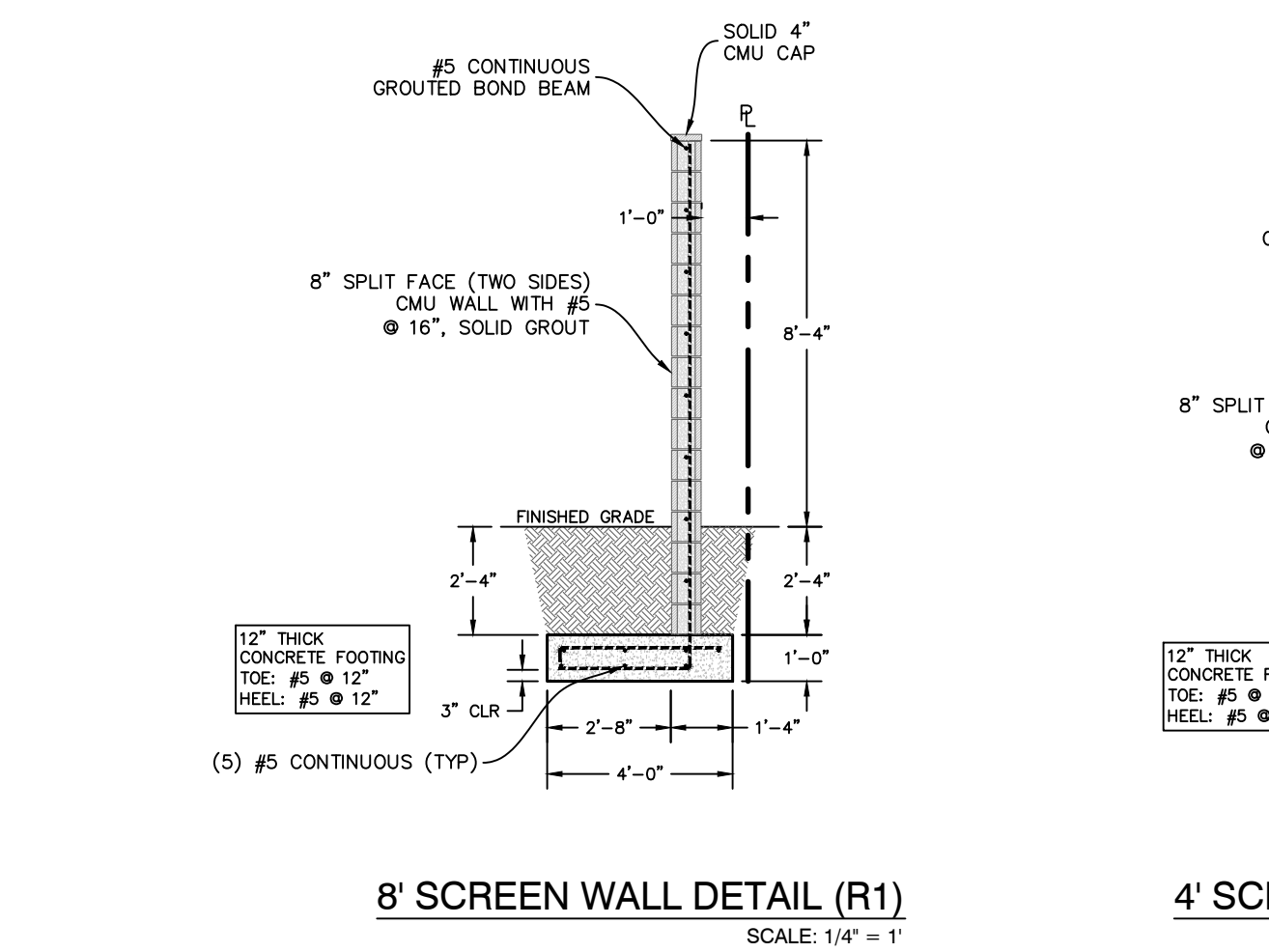
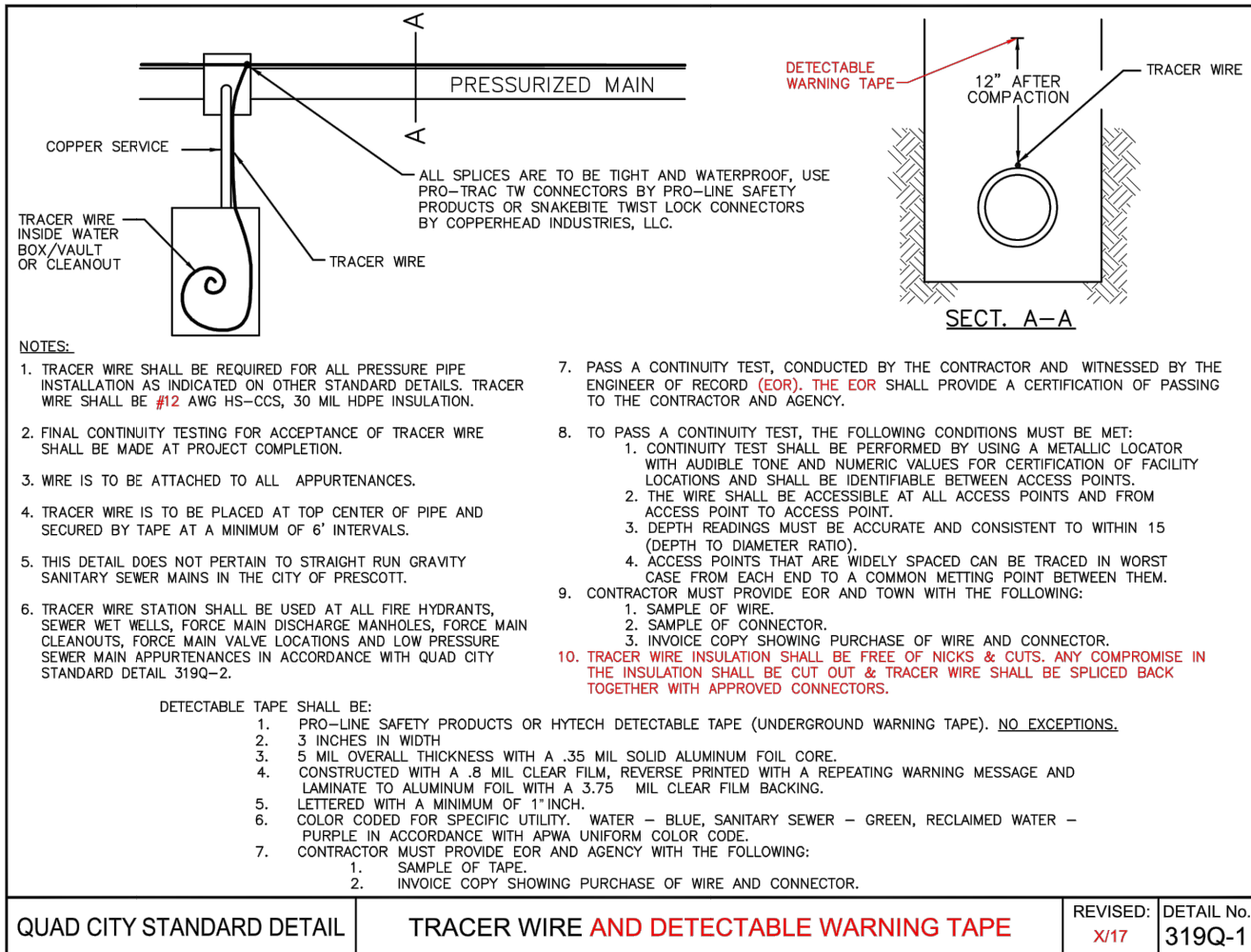
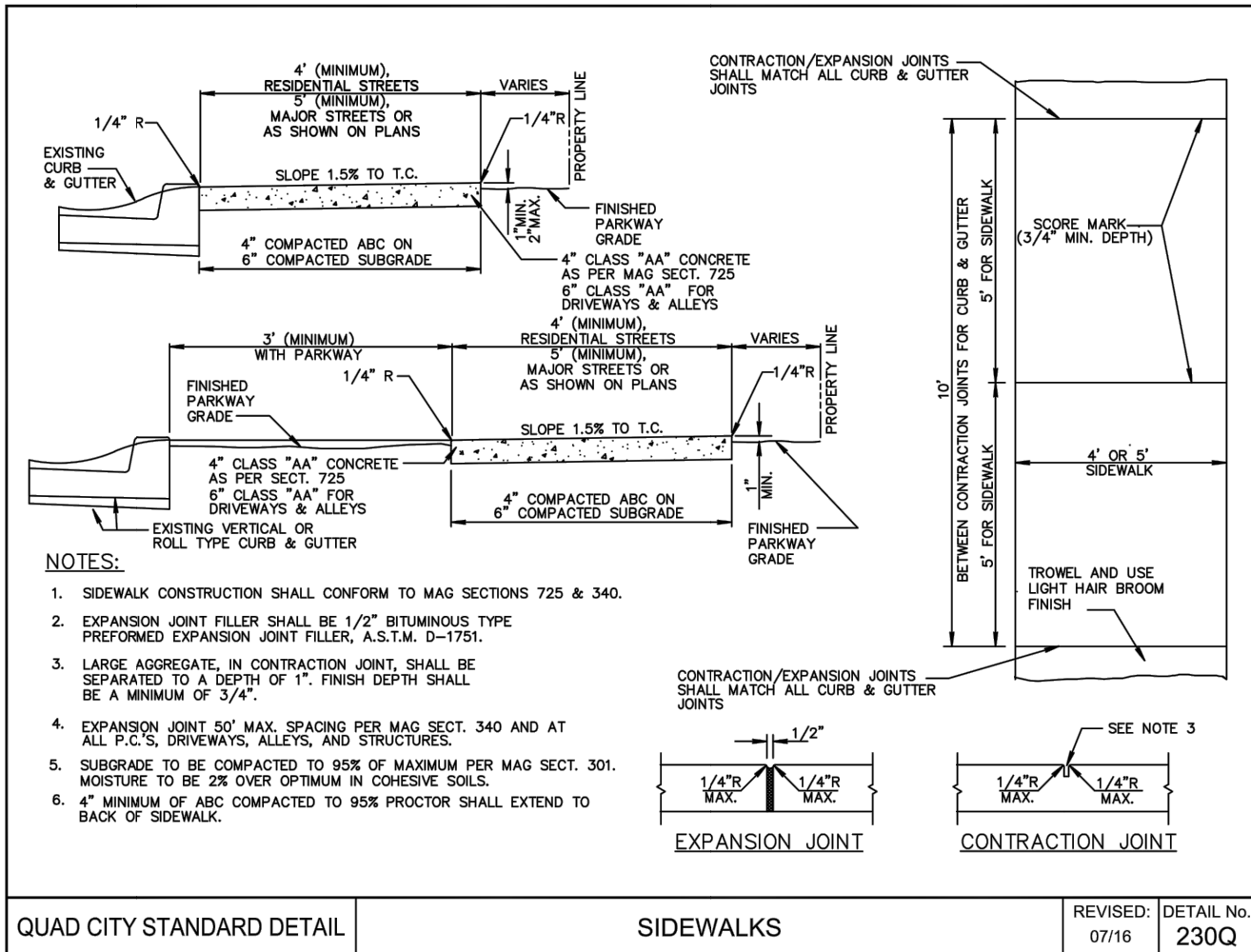
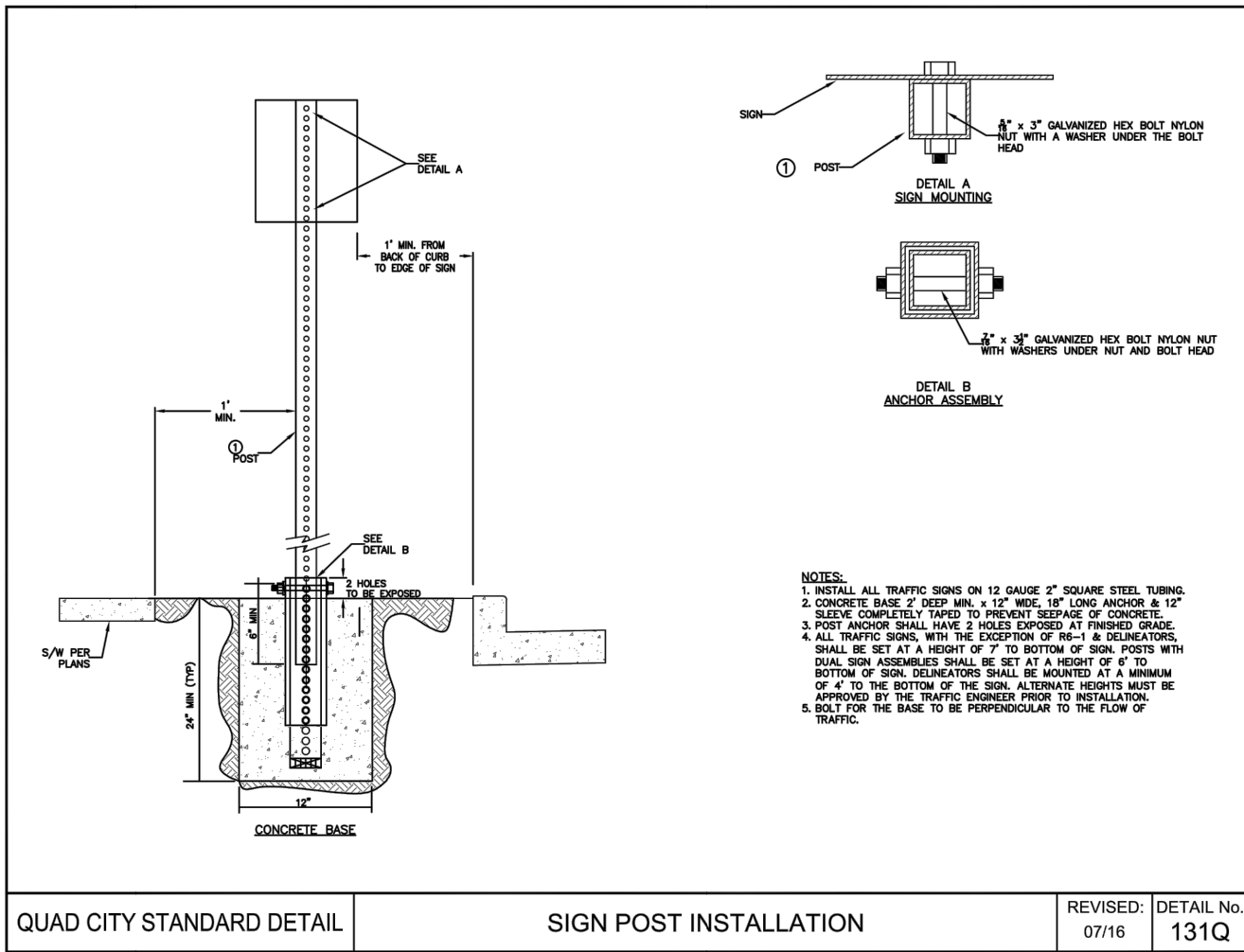
AN ACCEPTABLE PAVEMENT SURFACE SHALL NOT VARY MORE THAN ¼ INCH FROM THE LOWER EDGE OF A 12-FOOT STRAIGHTEDGE WHEN THE STRAIGHTEDGE IS PLACED PARALLEL TO THE CENTER LINE OF THE ROADWAY. THE STRAIGHTEDGE SHALL BE FURNISHED BY THE CONTRACTOR & BE ACCEPTABLE TO THE ENGINEER.

REVISIONS

BY

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<



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Professional Engineer
BEN B. HUZAR
Arizona, U.S.A.
Expires 12/31/21

DRAWING:

CIVIL IMPROVEMENT PLANS

PROJECT:

Thermal Vac
2575 N. State Route 89
Chino Valley, AZ 86323

APN:

306-14-024

DATE:

April 13, 2021

JOB NO.

761

SHEET

C3

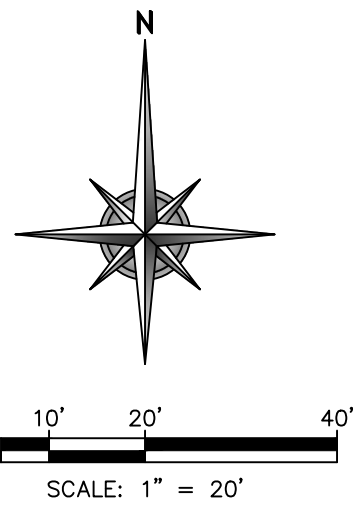
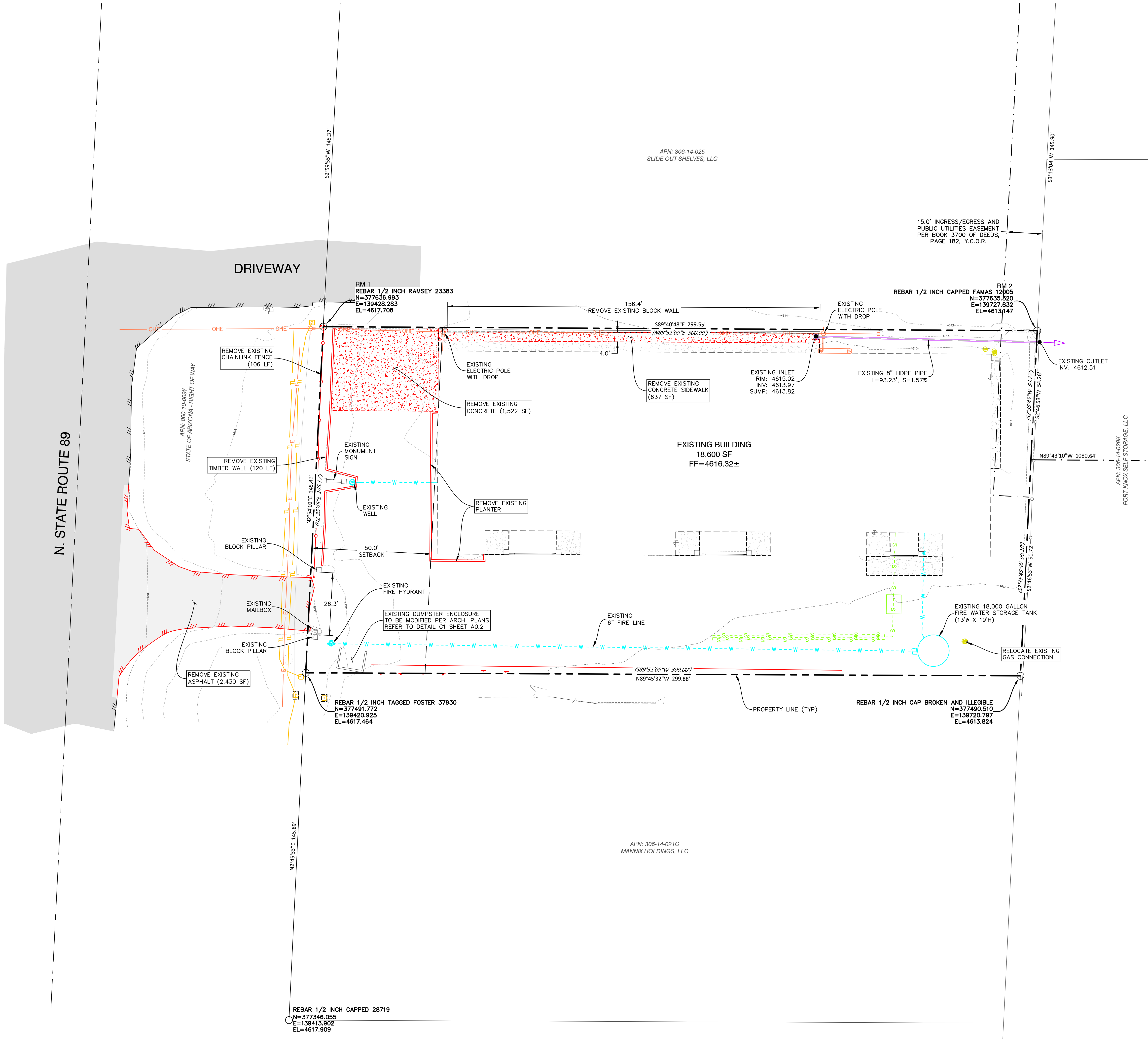
W. Alan Kenson & Associates, P.C.

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ARCHITECTURE & PLANNING



LEGEND

- SUBJECT PROPERTY LINE
- ADJACENT PROPERTY LINE
- EASEMENT
- RIGHT-OF-WAY
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING BUILDING
- EXISTING DRAINAGE FLOWLINE
- EXISTING CHAINLINK FENCE
- EXISTING EDGE OF PAVEMENT
- EXISTING DRAINAGE PIPE
- EXISTING CABLE TV LINE
- EXISTING CABLE TV RISER
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING ELECTRIC TRANSFORMER
- EXISTING TELEPHONE/FIBER LINE
- EXISTING TELEPHONE RISER
- EXISTING NATURAL GAS MAIN
- EXISTING GAS METER
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING CONCRETE
- EXISTING ASPHALT PAVEMENT

BASIS OF BEARING & BENCHMARKS			
THE BASIS OF BEARING FOR THIS PROJECT IS S89°40'48"E, A DISTANCE OF 299.55 FEET ALONG THE NORTH LINE SUBJECT PARCEL BETWEEN TWO 1/2" REBARS WITH CAPS RLS 23383 & 12005.			
REFERENCE MARK	NORTHING	EASTING	ELEVATION (88)
RM 1	377636.99	139428.28	4617.71
RM 2	377635.32	139727.83	4613.15
THE COORDINATES AS DEPICTED HEREON, REFLECT THE TOWN OF CHINO VALLEY COORDINATE SYSTEM AS PUBLISHED BY THE TOWN OF CHINO VALLEY AND AVAILABLE ON THEIR WEBSITE.			

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ARCHITECTURE & PLANNING

W.A.K.A.
REGISTERED PROFESSIONAL ENGINEER
45636
BEN B. HUIZA
ARIZONA, U.S.A.
Expires 12/31/21

**P.O. Box 11593
Prescott, AZ 86304**

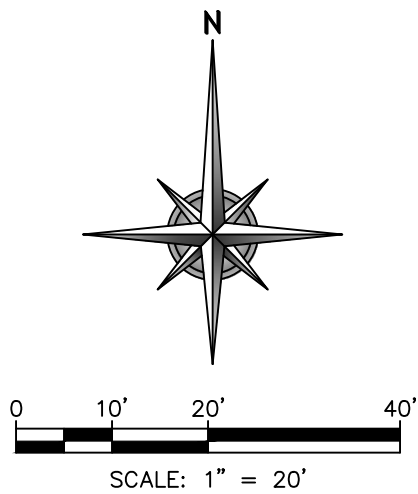
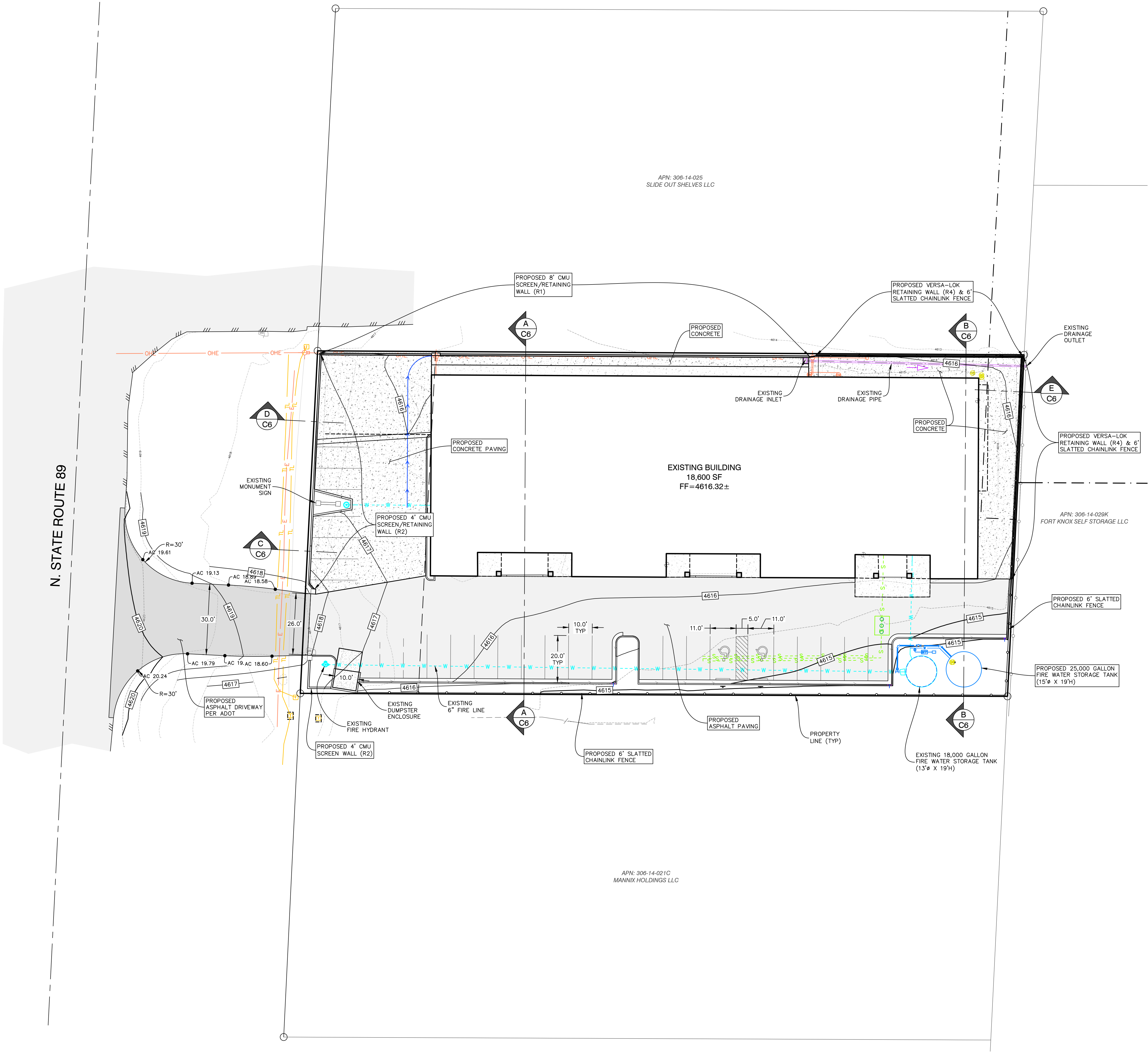
DRAWING: CIVIL IMPROVEMENT PLANS
EXISTING SITE SURVEY

PROJECT: Thermal Vac
2575 N. State Route 89
Chino Valley, AZ 86323

APN: 306-14-024

DRAWN BY	BH
CHECKED BY	BH
DATE	April 13, 2021
JOB NO.	761
SHEET	

C4



WATER QUANTITIES			
KEY	DESCRIPTION	QTY	UNIT
W5	INSTALL 25,000 GALLON (12 GA. MIN.) WATER TANK (15'0 X 19'H) AS REQUIRED BY CAFMA WITH ALL REQUIRED WATER LEVEL INDICATORS, VALVES AND FREEZE PROTECTION DEVICES	1	LS
W10	CONNECT TO EXISTING WATERLINE WITH TEE & INSTALL 3/4" Ø SCH-40 PVC SUPPLY LINE TO TANK WITH TRENCHING, BEDDING, & BACKFILL PER QCSO 200Q-1	20	LF
W15	INSTALL 6" Ø C-900/CL 235 (DR19) PVC FIRE LINE WITH TRENCHING, BEDDING, & BACKFILL PER QCSO 200Q-1	36	LF
W20	INSTALL 6" GATE VALVE PER QCSOS 301Q & 391Q	1	EA
W25	INSTALL WATER FITTING WITH JOINT RESTRAINT PER QCSOS 303Q-1 & 2	3	EA
RETAINING WALL QUANTITIES			
KEY	DESCRIPTION	QTY	UNIT
R1	8' CMU SCREEN WALL #R1 (SECTION 'A')	205	LF
R2	4' CMU SCREEN/RETAINING WALL #R2 (SECTION 'C' & 'D')	123	LF
R3	2' CMU RETAINING WALL #R3	38	LF
R4	4' VERSA-LOK RETAINING WALL #R4 (SECTION 'E')	183	LF
PAVING QUANTITIES			
KEY	DESCRIPTION	QTY	UNIT
P5	SAWCUT, REMOVE & REPLACE EXISTING PAVEMENT PER ADOT REQUIREMENTS	270	SY
P10	INSTALL 4" OF AC OVER 8" OF ABC OVER 8" OF PREPARED SUBGRADE PER ADOT REQUIREMENTS	330	SY
P15	INSTALL 3" OF AC OVER 8" OF ABC OVER 8" OF PREPARED SUBGRADE	1,220	SY
P20	INSTALL 6" OF PCC WITH #4 @ 9" O.C. EACH WAY OVER 4" OF ABC OVER 8" OF PREPARED SUBGRADE	4,320	SF
P25	MODIFY EXISTING TRASH ENCLOSURE PER ARCH. PLANS DETAIL C1 ON SHEET A0.2	1	LS
P30	INSTALL PRECAST SAFETY CURB PER MAG SD 150	2	EA
P35	INSTALL VERTICAL CURB & GUTTER - TYPE 'A' PER QCSO 220Q-1	285	LF
P40	INSTALL SINGLE CURB - TYPE 'A' PER QCSO 222Q	145	LF
P45	INSTALL SIDEWALK (WIDTHS PER PLAN) PER QCSO 230Q	2,582	SF
P50	INSTALL PARKING LOT (SINGLE & GORE) STRIPING PER PLAN & TOCV SPECIFICATIONS	1	LS
P55	INSTALL ADA COMPLIANT HANDICAP STRIPING & SIGNAGE PER PLAN & TOCV SPECIFICATIONS	2	EA

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 - TOPOGRAPHIC SURVEY PROVIDED BY GRANITE BASIN ENGINEERING, INC. (GBE) IN SEPTEMBER 2020.
 - SITE AND BUILDING PLAN DEVELOPED BY W. ALAN KENSON & ASSOCIATES, P.C. (WAKA).
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 - REMOVALS SHALL BE DONE IN ACCORDANCE WITH MAG SPECIFICATIONS SECTION 350.

REVISIONS

BY

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Professional Engineer

45636

BEN B. HUIZA

Arizona, U.S.A.

Expires 12/31/21

WAKA

W. Alan Kenson & Associates, P.C.

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P.O. Box 11593

Prescott, AZ 86304

DRAWING:

CIVIL IMPROVEMENT PLANS

PROJECT SUMMARY & QUANTITIES

PROJECT:

Thermal Vac

2575 N. State Route 89

Chino Valley, AZ 86323

APN:

306-14-024

DRAWN BY

BH

CHECKED BY

BH

DATE

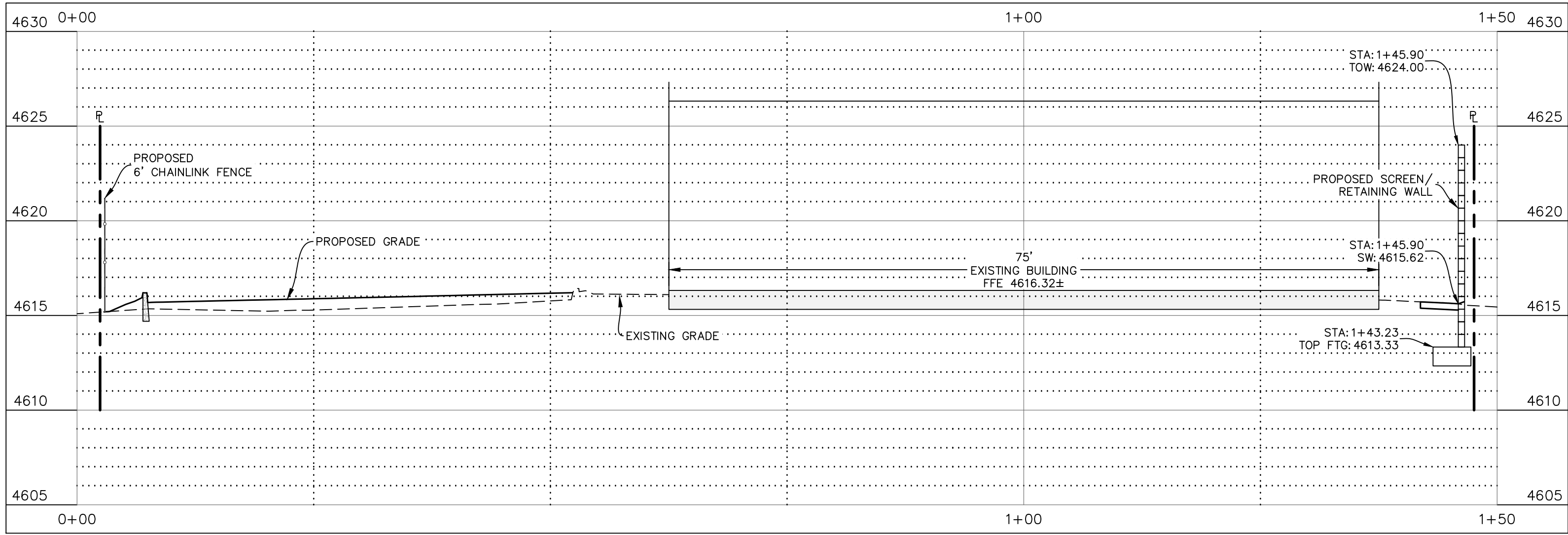
April 13, 2021

JOB NO.

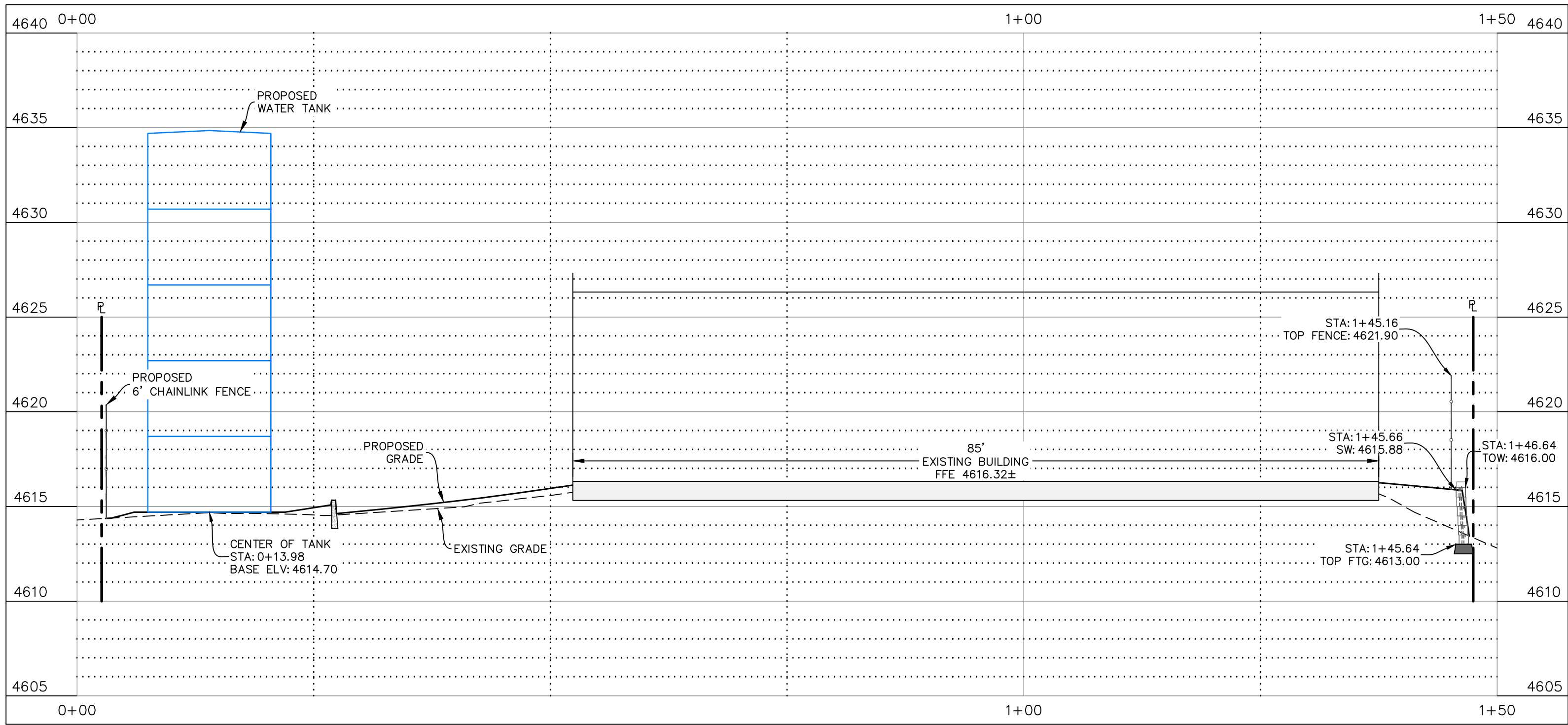
761

SHEET

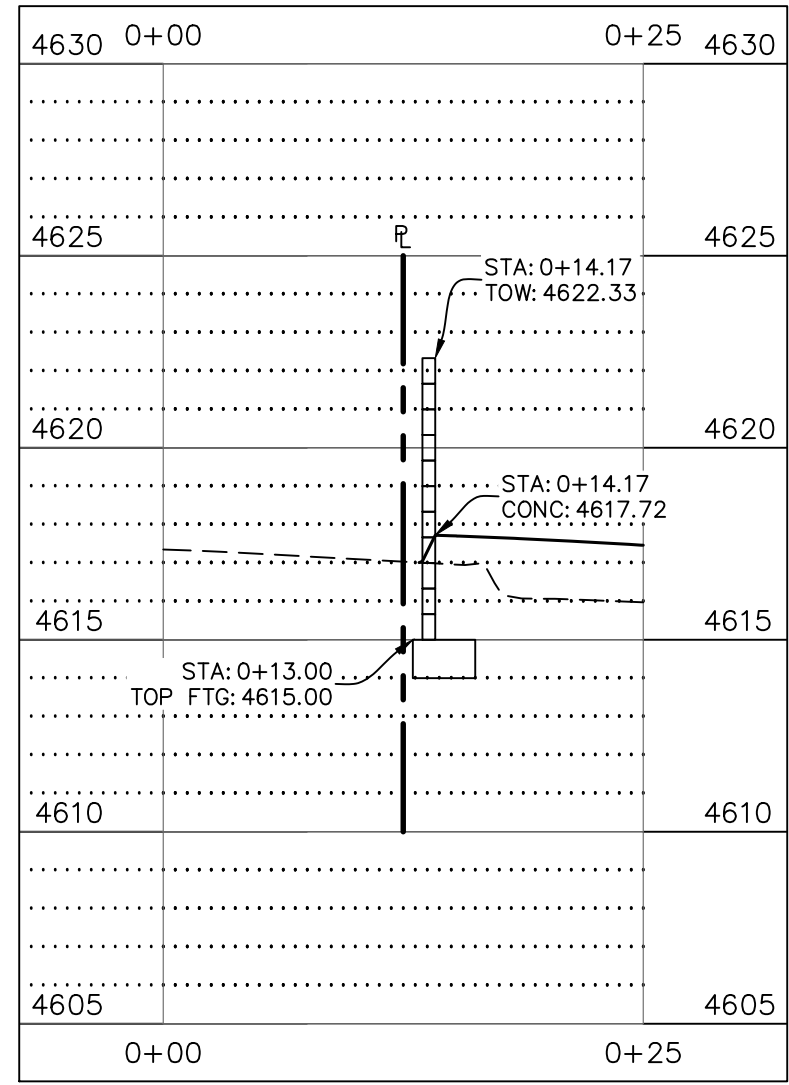
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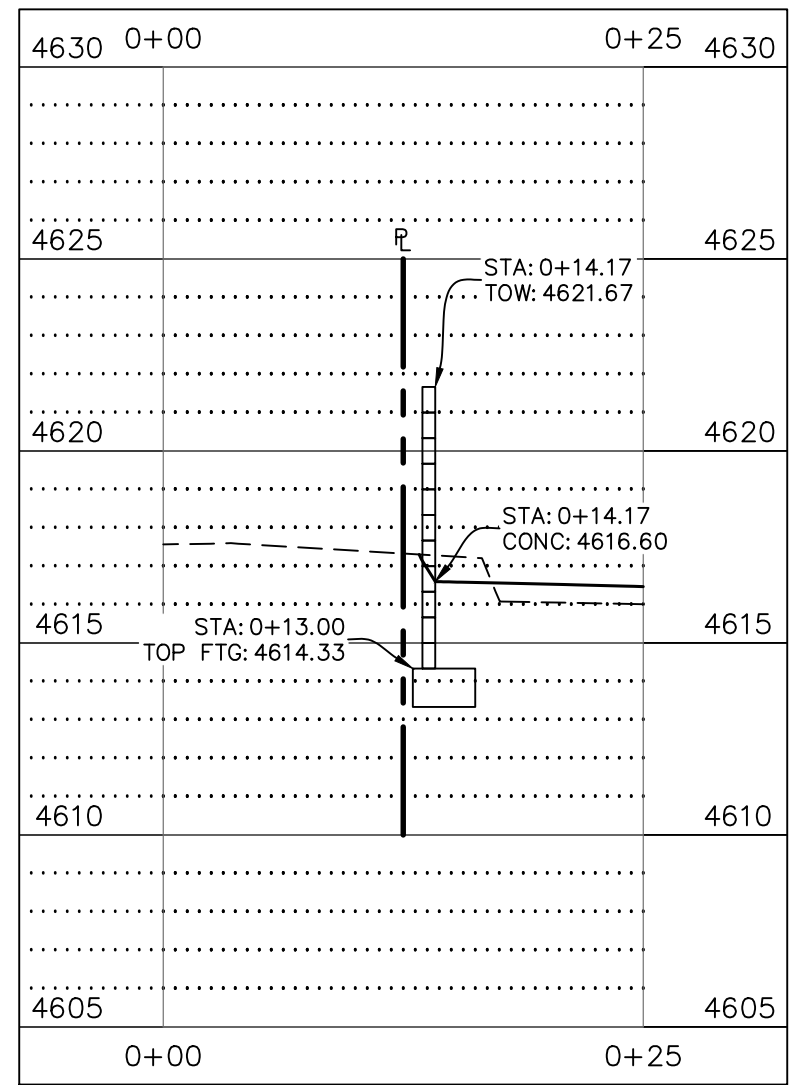
A
C5
SITE CROSS SECTION 'A'
SCALE: 1" = 10' HORIZ.
1" = 5' VERT.



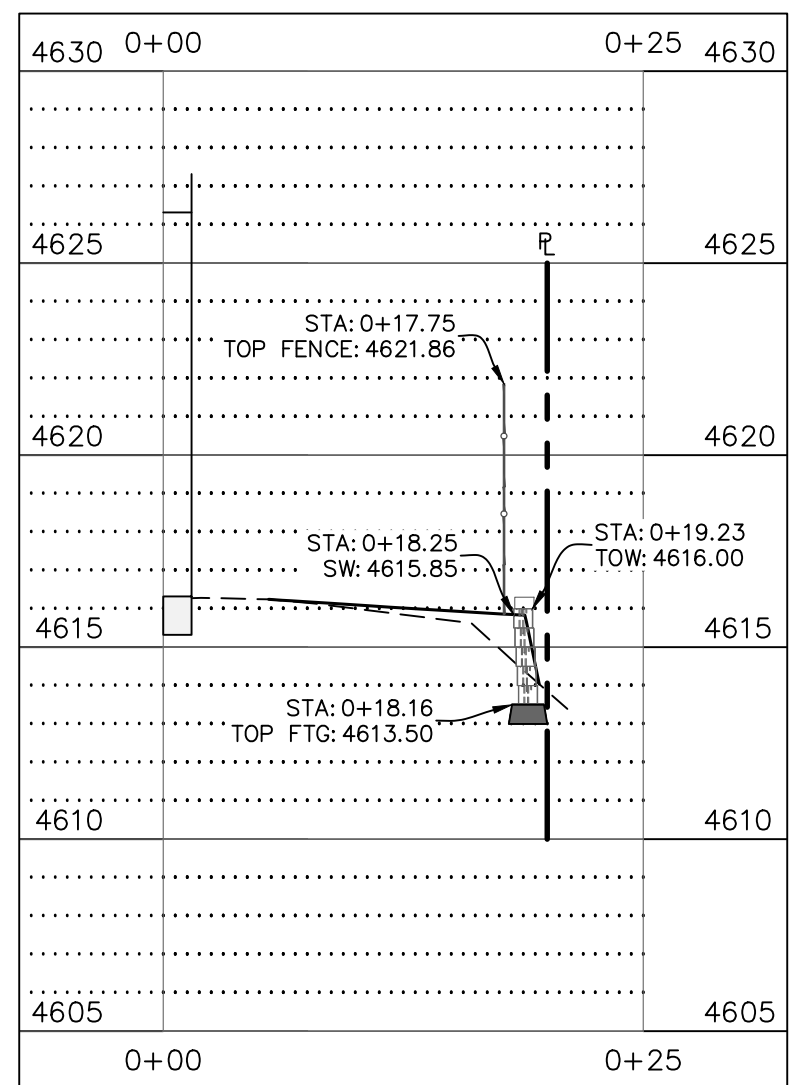
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C5
SITE CROSS SECTION 'B'
SCALE: 1" = 10' HORIZ.
1" = 5' VERT.



C
C5
WALL CROSS SECTION 'C'
SCALE: 1" = 10' HORIZ.
1" = 5' VERT.



D
C5
WALL CROSS SECTION 'D'
SCALE: 1" = 10' HORIZ.
1" = 5' VERT.



E
C5
WALL CROSS SECTION 'E'
SCALE: 1" = 10' HORIZ.
1" = 5' VERT.

REVISIONS	BY

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**ARCHITECTURE & PLANNING**

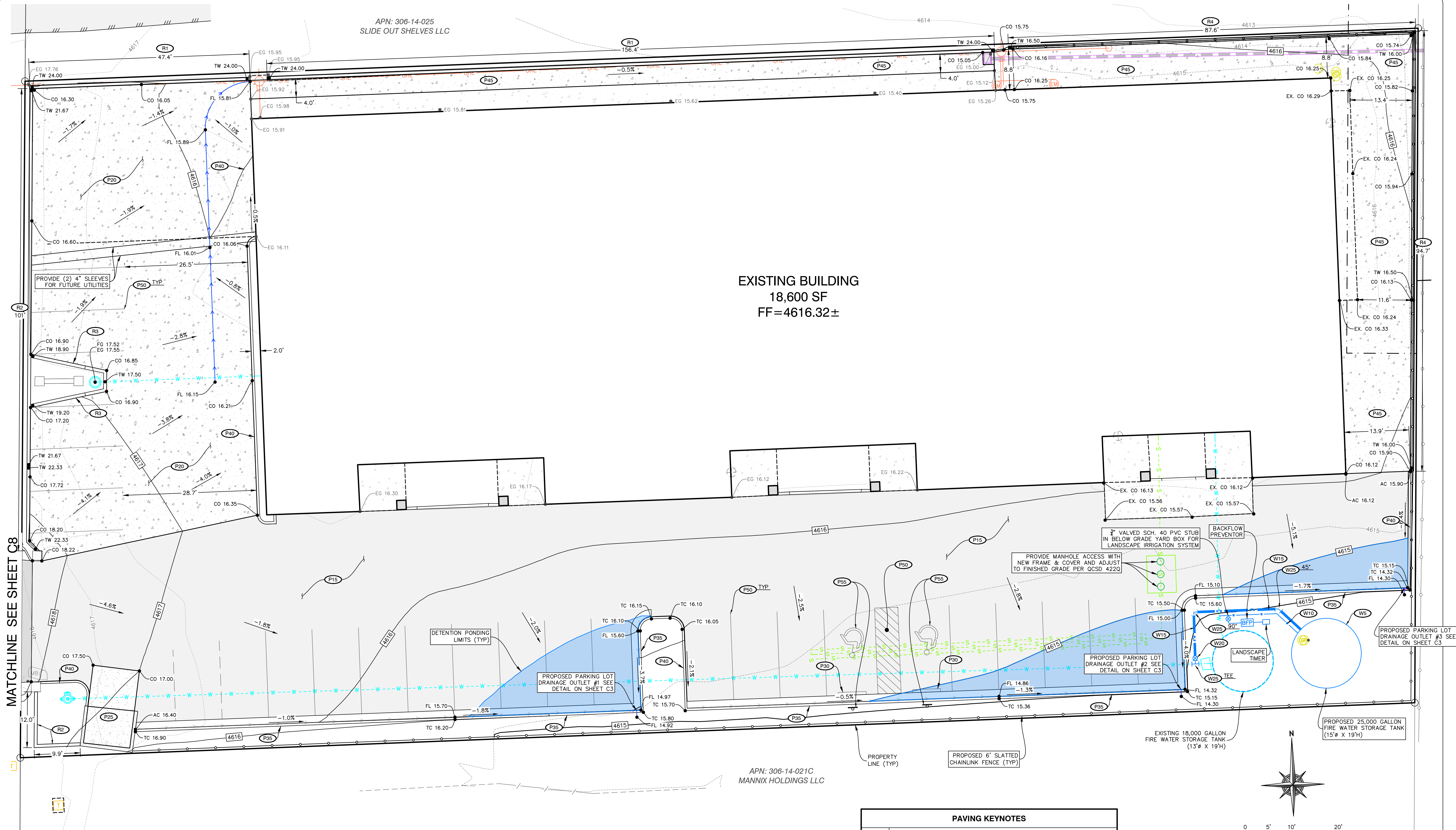
DRAWING: CIVIL IMPROVEMENT PLANS
SITE CROSS SECTIONS

PROJECT: Thermal Vac
2575 N. State Route 89
Chino Valley, AZ 86323

APN: 306-14-024

DRAWN BY BH
CHECKED BY BH
DATE April 13, 2021
JOB NO. 761
SHEET

C6



MATCHLINE SEE SHEET C8

EXISTING BUILDING
18,600 SF
FF=4616.32±

ESTIMATED FINISHED GRADE EARTHWORK QTYS
RAW CUT = 10 CY
RAW FILL = 440 CY
NET = 430 CY (IMPORT)

WATER KEYNOTES	
KEY	DESCRIPTION
W5	INSTALL 25,000 GALLON (12 GA. MIN.) WATER TANK (15'0" X 19'H) AS REQUIRED BY CAFMA WITH ALL REQUIRED WATER LEVEL INDICATORS, VALVES AND FREEZE PROTECTION DEVICES
W10	CONNECT TO EXISTING WATERLINE WITH TEE & INSTALL 3/4" O SCH-40 PVC SUPPLY LINE TO TANK WITH TRENCHING, BEDDING, & BACKFILL PER QCSO 200Q-1
W15	INSTALL 6" O C-900/CL 235 (DR18) PVC FIRE LINE WITH TRENCHING, BEDDING, & BACKFILL PER QCSO 200Q-1
W20	INSTALL 6" GATE VALVE PER QCSOS 301Q & 391Q
W25	INSTALL WATER FITTING WITH JOINT RESTRAINT PER QCSOS 303Q-1 & 2

RETAINING WALL KEYNOTES	
KEY	DESCRIPTION
R1	8' CMU SCREEN WALL #R1 (SECTION A)
R2	4' CMU SCREEN/RETAINING WALL #R2 (SECTION 'C' & 'D')
R3	2' CMU RETAINING WALL #R3
R4	4' VERSA-LOK RETAINING WALL #R4 (SECTION 'E')

PAVING KEYNOTES	
KEY	DESCRIPTION
P5	SAWCUT, REMOVE & REPLACE EXISTING PAVEMENT PER ADOT REQUIREMENTS
P10	INSTALL 4" OF AC OVER 8" OF ABC OVER 8" OF PREPARED SUBGRADE PER ADOT REQUIREMENTS
P15	INSTALL 3" OF AC OVER 8" OF ABC OVER 8" OF PREPARED SUBGRADE
P20	INSTALL 6" OF PCC WITH #4 @ 3'-0" O.C. EACH WAY OVER 4" OF ABC OVER 8" OF PREPARED SUBGRADE
P25	MODIFY EXISTING TRASH ENCLOSURE PER ARCH. PLANS DETAIL C1 ON SHEET A0.2
P30	INSTALL PRECAST SAFETY CURB PER MAG SD 150
P35	INSTALL VERTICAL CURB & GUTTER - TYPE 'A' PER QCSO 220Q-1
P40	INSTALL SINGLE CURB - TYPE 'A' PER QCSO 222Q
P45	INSTALL SIDEWALK (WIDTHS PER PLAN) PER QCSO 230Q
P50	INSTALL PARKING LOT (SINGLE & GORE) STRIPING PER PLAN & TOCV SPECIFICATIONS
P55	INSTALL ADA COMPLIANT HANDICAP STRIPING & SIGNAGE PER PLAN & TOCV SPECIFICATIONS

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W. Alan Kenson & Associates, P.C.

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ARCHITECTURE & PLANNING

DRAWING: CIVIL IMPROVEMENT PLANS
ONSITE CIVIL IMPROVEMENTS

PROJECT:

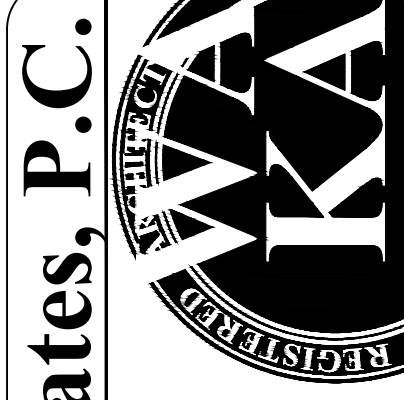
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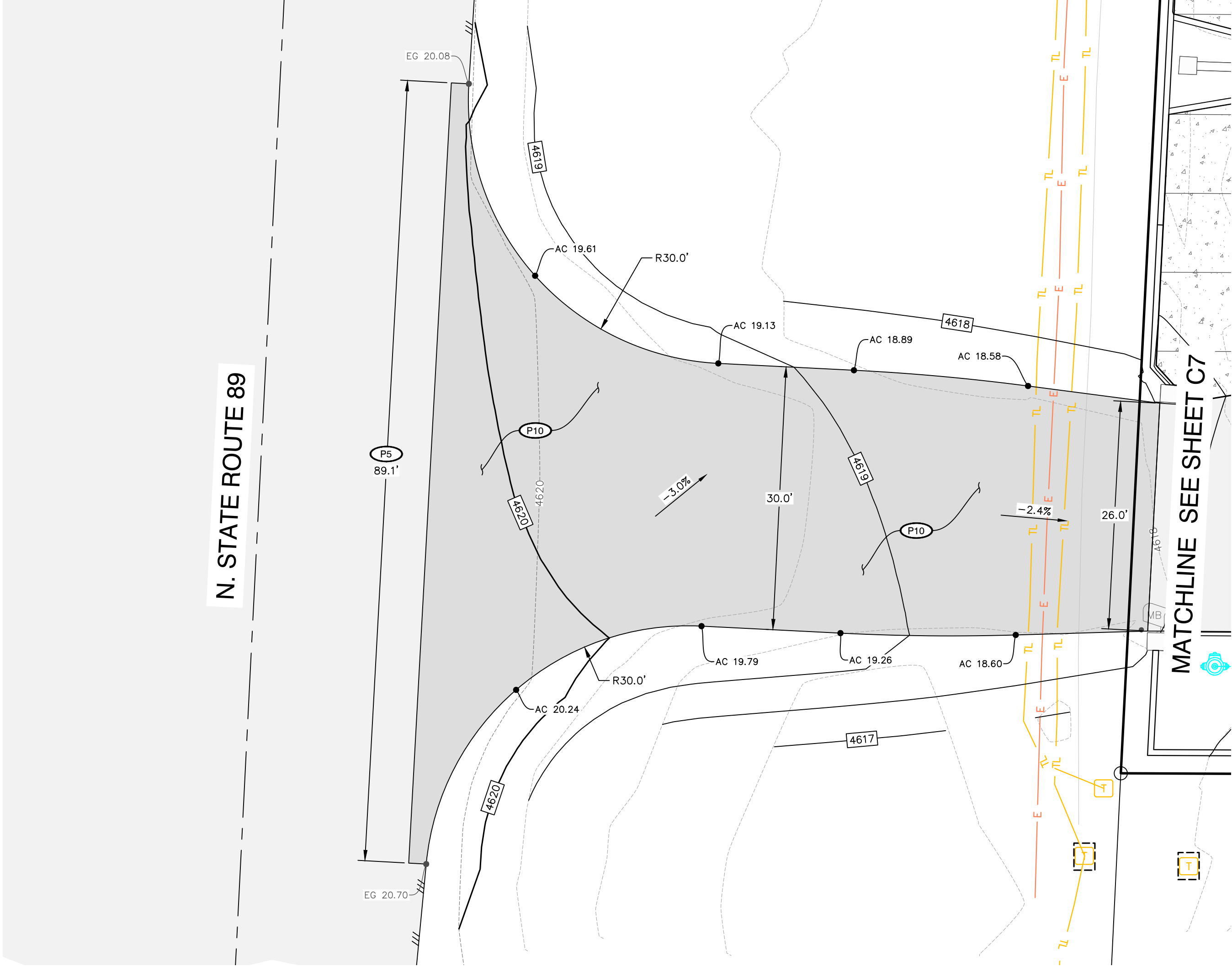
DRAWN BY
BH
CHECKED BY
BH
DATE
April 13, 2021
JOB NO.
761
SHEET

C7



REVISIONS	BY

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PAVING KEYNOTES	
KEY	DESCRIPTION
P5	SAWCUT, REMOVE & REPLACE EXISTING PAVEMENT PER ADOT REQUIREMENTS
P10	INSTALL 4" OF AC OVER 8" OF ABC OVER 8" OF PREPARED SUBGRADE PER ADOT REQUIREMENTS
P15	INSTALL 3" OF AC OVER 8" OF ABC OVER 8" OF PREPARED SUBGRADE
P20	INSTALL 6" OF PCC WITH #4 @ 3'-0" O.C. EACH WAY OVER 4" OF ABC OVER 8" OF PREPARED SUBGRADE
P25	MODIFY EXISTING TRASH ENCLOSURE PER ARCH. PLANS DETAIL C1 ON SHEET A0.2
P30	INSTALL PRECAST SAFETY CURB PER MAG SD 150
P35	INSTALL VERTICAL CURB & GUTTER - TYPE 'A' PER QCSO 220Q-1
P40	INSTALL SINGLE CURB - TYPE 'A' PER QCSO 222Q
P45	INSTALL SIDEWALK (WIDTHS PER PLAN) PER QCSO 230Q
P50	INSTALL PARKING LOT (SINGLE & GORE) STRIPING PER PLAN & TOCV SPECIFICATIONS
P55	INSTALL ADA COMPLIANT HANDICAP STRIPING & SIGNAGE PER PLAN & TOCV SPECIFICATIONS

- GENERAL NOTES:**
- THIS MAP DOES NOT REPRESENT THE RESULTS OF A BOUNDARY SURVEY. NO BOUNDARY SURVEY WAS PERFORMED OR IS IMPLIED BY THIS MAP.
 - ALL EASEMENTS OF RECORD MAY NOT BE PLOTTED HEREON.
 - TOPOGRAPHIC SURVEY PROVIDED BY GRANITE BASIN ENGINEERING, INC. (GBE) IN SEPTEMBER 2020.
 - SITE AND BUILDING PLAN DEVELOPED BY W. ALAN KENSON & ASSOCIATES, P.C. (WAKA).
 - COOPERATION WITH UTILITIES SHALL BE DONE IN ACCORDANCE WITH SECTION 105.6 OF MAG SPECIFICATIONS.
 - DRY UTILITY PROVIDERS MUST BE CONSULTED WITH FOR RELOCATION OF EXISTING UTILITIES IN CONFLICT WITH PROPOSED IMPROVEMENTS.
 - EXISTING UTILITY INFORMATION IS APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. HORIZONTAL LOCATIONS ARE BASED ON FIELD SURVEY & AS-BUILT DATA. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS & ELEVATIONS PRIOR TO CONSTRUCTION.
 - REMOVALS SHALL BE DONE IN ACCORDANCE WITH MAG SPECIFICATIONS SECTION 350.

WAKA

REGISTERED PROFESSIONAL ENGINEER

45636

BEN B. HUZA

ARCHITECTURE & PLANNING

ARIZONA, U.S.A.

Expires 12/31/21

W. Alan Kenson & Associates, P.C.

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ARCHITECTURE & PLANNING

DRAWING: CIVIL IMPROVEMENT PLANS

OFFSITE CIVIL IMPROVEMENTS (ADOT DRIVEWAY)

PROJECT:

Thermal Vac

2575 N. State Route 89

Chino Valley, AZ 86323

APN:

306-14-024

REVISIONS

BY

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0

5'

10'

20'

SCALE: 1" = 10'

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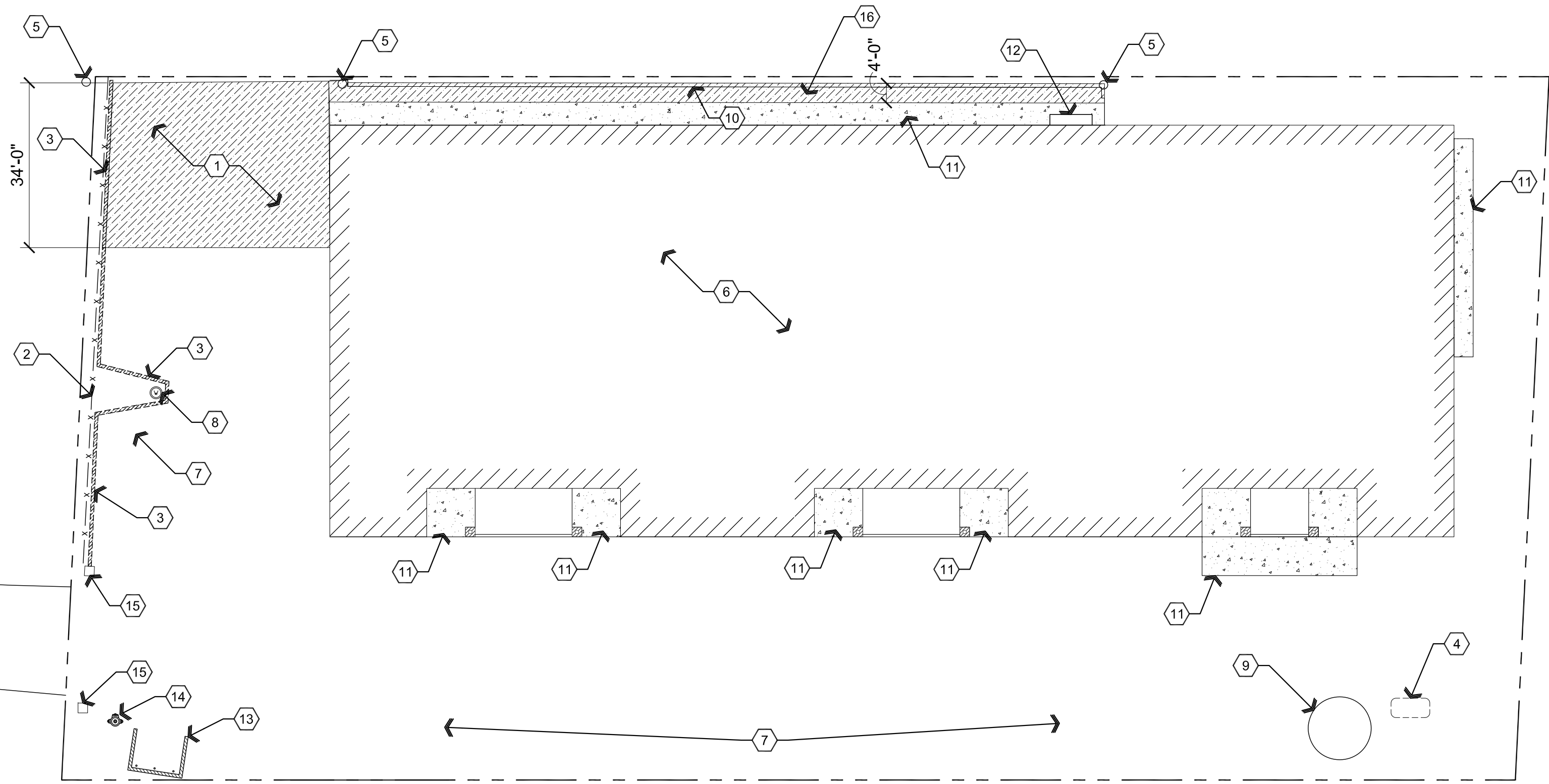
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Apr 08, 2021 - 9:14am

A1 Existing / Demolition Site Plan



Descriptive Keynotes

1. REMOVE EXISTING CONCRETE SLAB.
2. OWNER TO REMOVE EXISTING CHAIN LINK FENCE.
3. OWNER TO REMOVE EXISTING LANDSCAPE TIMBERS.
4. RELOCATE EXISTING PROPANE TANK.
5. EXISTING POWER POLE.
6. EXISTING BUILDING.
7. EXISTING PARKING AREA.
8. EXISTING WELL HEAD.
9. EXISTING WATER TANK.
10. REMOVE EXISTING CMU RETAINING CURB.
11. EXISTING CONCRETE TO REMAIN.
12. EXISTING ELECTRICAL SERVICE ENTRANCE SECTION TO REMAIN, REFER TO ELECTRICAL PLANS.
13. EXISTING TRASH DUMPSTER ENCLOSURE TO REMAIN, REFER TO DETAIL C1/A0.2.
14. EXISTING / DRAFT FIRE HYDRANT / FDC.
15. EXISTING CMU COLUMN TO REMAIN.
16. SAWCUT AND REMOVE PORTION OF EXISTING CONCRETE SLAB.

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ARCHITECTURE & PLANNING

DRAWING: Demolition Site Plan

PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN: 306-14-024

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE April 8th, 2021
JOB NO. 761
SHEET

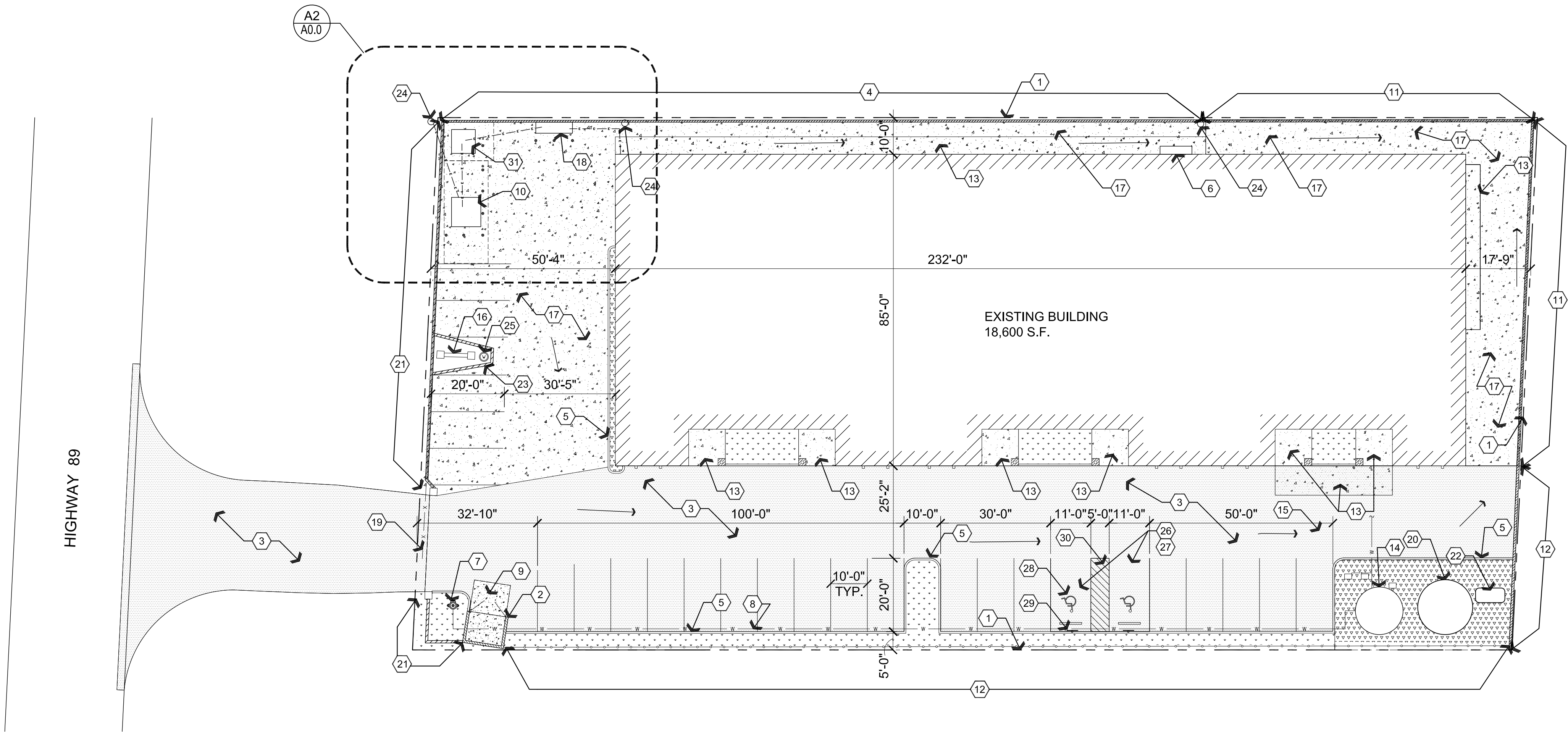
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Scale: 1"=20'-0"



Apr 08, 2021 - 9:14am

A1 Architectural Site Plan



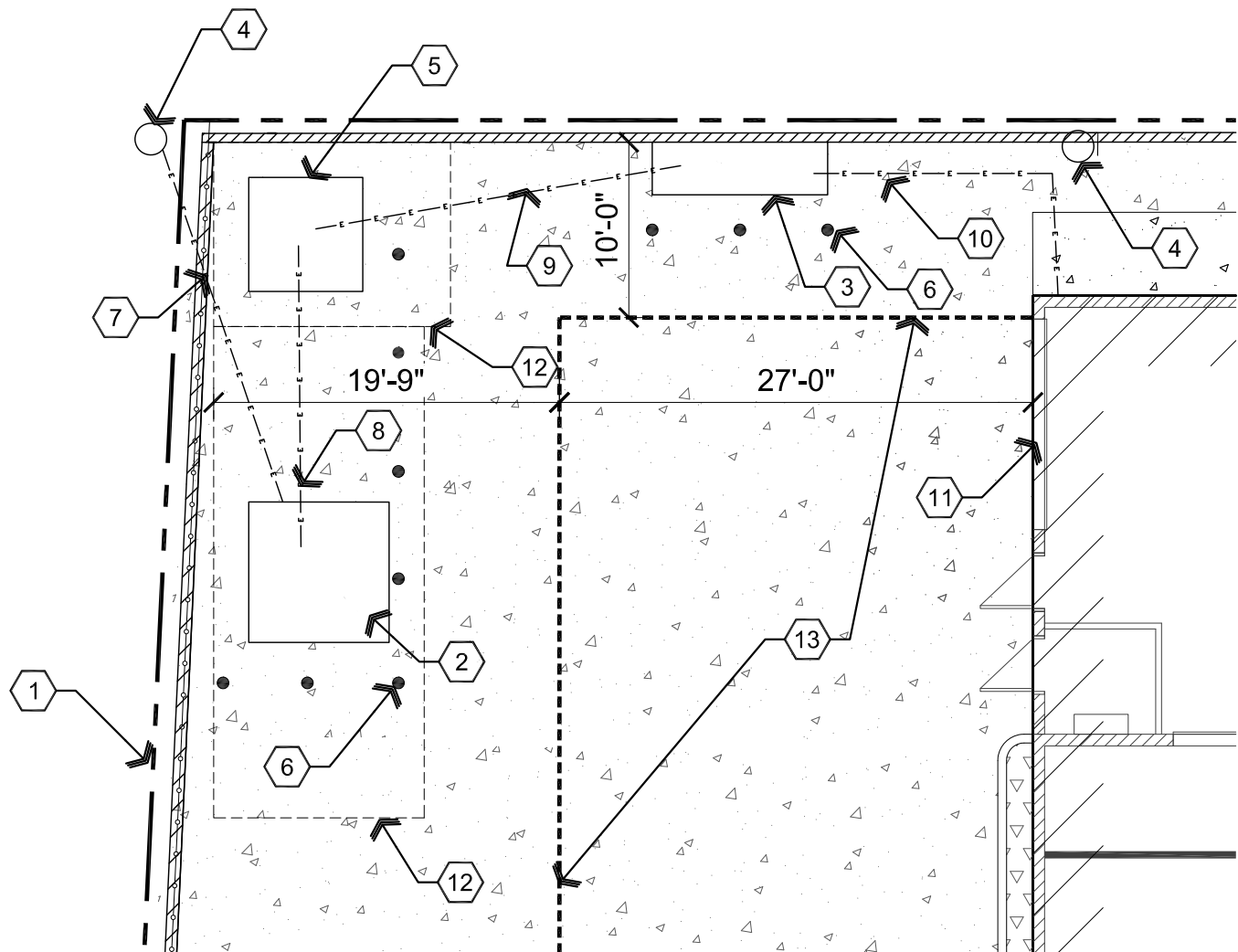
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Descriptive Keynotes

ENLARGED PARTIAL SITE PLAN

1. PROPERTY LINE.
2. SWITCH CABINET BY APS.
3. PROPOSED 3000 AMP 277/480 VOLT ELECTRIC SERVICE ENTRANCE SECTION, REFER TO ELECTRICAL PLANS.
4. EXISTING POWER POLE.
5. NEW ELECTRICAL TRANSFORMER BY APS, REFER TO ELECTRICAL PLANS.
6. SLEEVED 4" DIAMETER REMOVABLE BOLLARD, TYPICAL.
7. (2) 5" DB 120 ELECTRICAL CONDUIT.
8. (3) 2" DB 120 ELECTRICAL CONDUIT.
9. (9) 4" DB 120 ELECTRICAL CONDUIT.
10. (7) 4" DB 120 ELECTRICAL CONDUIT.
11. EXISTING SHIPPING / RECEIVING ROLL UP DOOR.
12. APS CLEARANCE LINE FOR ELECTRICAL EQUIPMENT.
13. DESIGNATED DRIVEWAY AREA.



A2 Architectural Partial Electrical Site Plan

Scale: 1"=10'-0"



PARKING CALCULATIONS

MANUFACTURING
1 SPACE PER 600 S.F.
15,852 / 600 = 26.4 SPACES
2 ADA PARKING SPACES REQUIRED.

25 PARKING SPACES PROVIDED.

Descriptive Keynotes

1. PROPERTY LINE.
2. EXISTING DUMPSTER ENCLOSURE. PROVIDE SOLID GATE, REFER TO DETAIL C1/A0.2
3. PROVIDE ASPHALTIC PAVEMENT, REFER TO CIVIL PLANS.
4. PROVIDE CMU WALL, REFER TO CIVIL PLANS.
5. CAST IN PLACE CONCRETE CURB, REFER TO CIVIL PLANS.
6. EXISTING ELECTRICAL SERVICE ENTRANCE SECTION TO REMAIN, REFER TO ELECTRICAL PLANS.
7. EXISTING / DRAFT FIRE HYDRANT / FDC.
8. EXISTING BELOW GRADE DRAFT FIRE LINE.
9. PROVIDE 5" THICK CONCRETE SLAB W/ #3 @ 2'-0" O.C. EACH WAY OVER 4" COMPACTED A.B.C. FOR TRASH ENCLOSURE, REFER TO DETAIL C1/A0.2.
10. SWITCH CABINET BY APS.
11. PROVIDE SEGMENTAL RETAINING WALL W/ 6' HIGH CHAIN LINK W/ SLATS, REFER TO CIVIL PLANS.
12. PROVIDE 6' TALL CHAIN LINK FENCE WITH SLATS.
13. EXISTING CONCRETE SLAB.
14. EXISTING WATER STORAGE TANK.
15. EXISTING DOMESTIC WATER LINE.
16. EXISTING SIGNAGE.
17. PROVIDE CONCRETE SLAB OVER COMPACTED A.B.C., REFER TO CIVIL PLANS.
18. PROPOSED 3000 AMP 277/480 VOLT ELECTRIC SERVICE ENTRANCE SECTION, REFER TO ELECTRICAL PLANS.
19. EXISTING GATE TO REMAIN, FIELD VERIFY.
20. PROVIDE NEW WATER STORAGE TANK, REFER TO CIVIL PLANS FOR SIZE AND INTER CONNECTION / MANIFOLD TO EXISTING TANK.
21. PROVIDE CMU RETAINING WALL, REFER TO CIVIL PLANS.
22. RELOCATE EXISTING PROPANE TANK TO THIS LOCATION.
23. PROVIDE 2' TALL WALL AROUND EXISTING SIGN / WELL.
24. EXISTING POWER POLE.
25. EXISTING WELL HEAD.
26. PROPOSED ADA PARKING SPACE, TYPICAL.
27. THE MAXIMUM SLOPE OF THE A.D.A. ACCESSIBLE PARKING AREA SHALL NOT EXCEED 2% AND THE SLOPE OF THE DOORWAY LANDING AND ACCESSIBLE ROUTE TO PUBLIC ACCESS SHALL NOT EXCEED 2%. REFER TO CIVIL PLANS.
28. PROVIDE A.D.A. APPROVED SYMBOL OF ACCESSIBILITY PAVEMENT MARKING, TYPICAL. REFER TO DETAIL D2 SHEET A0.1.
29. PROVIDE PARKING SIGNAGE IN ACCORDANCE WITH A.D.A. REQUIREMENTS. REFER TO DETAIL D1 SHEET A0.1
30. PROVIDE 4" WIDE WHITE PAINTED STRIPING AT UNLOADING AREA IN ACCORDANCE WITH A.D.A. REQUIREMENTS.
31. NEW ELECTRICAL TRANSFORMER, REFER TO ELECTRICAL PLANS.

Legend

- EXISTING CONCRETE PAD
- PROPOSED CONCRETE PAD
- REMOVE EXISTING CONCRETE AND REPLACE
- PROPOSED ASPHALTIC PAVEMENT
- PROPOSED LANDSCAPE AREA
- PROPOSED LANDSCAPE ROCK AREA

REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: Architectural Site Plan

PROJECT:

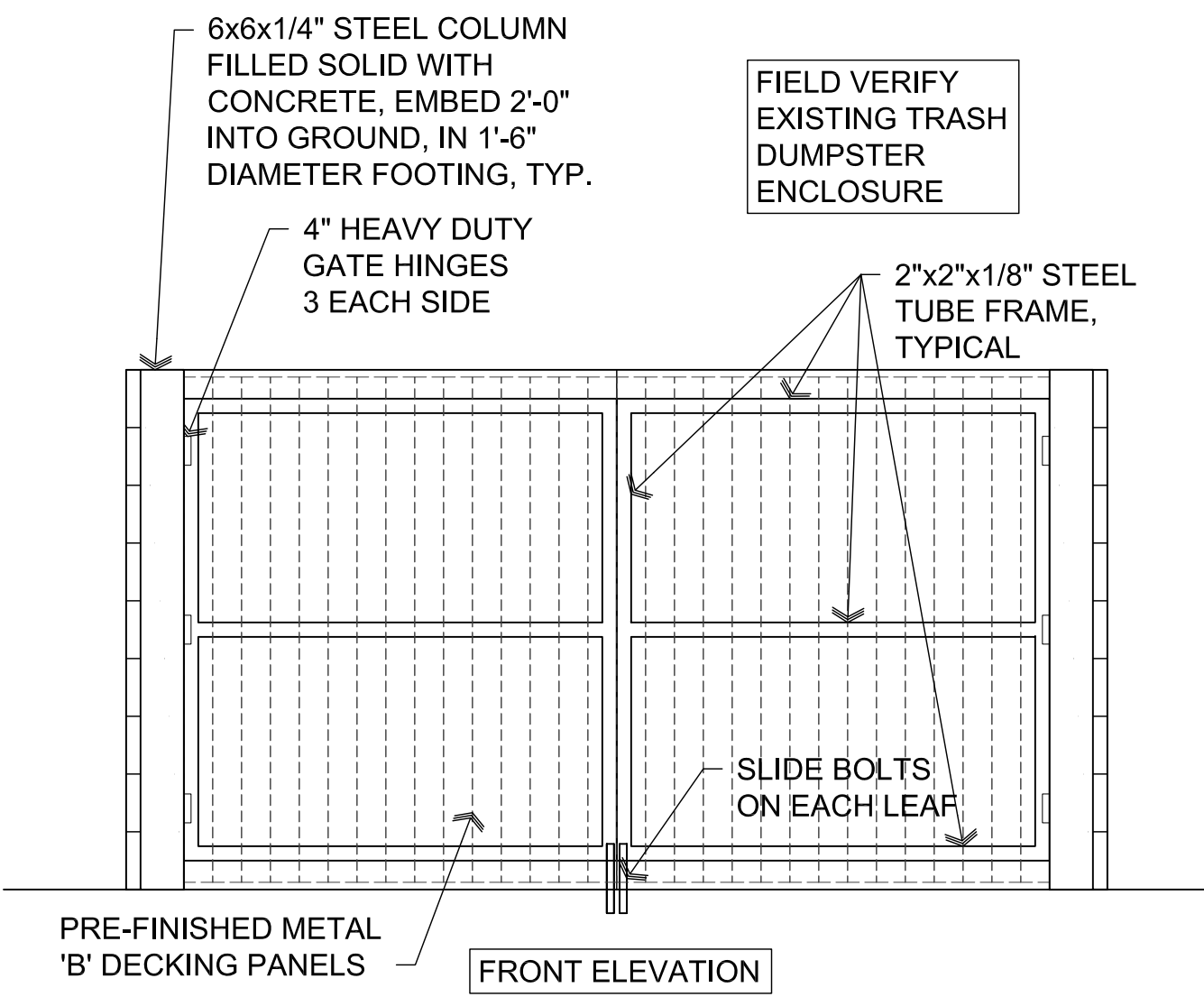
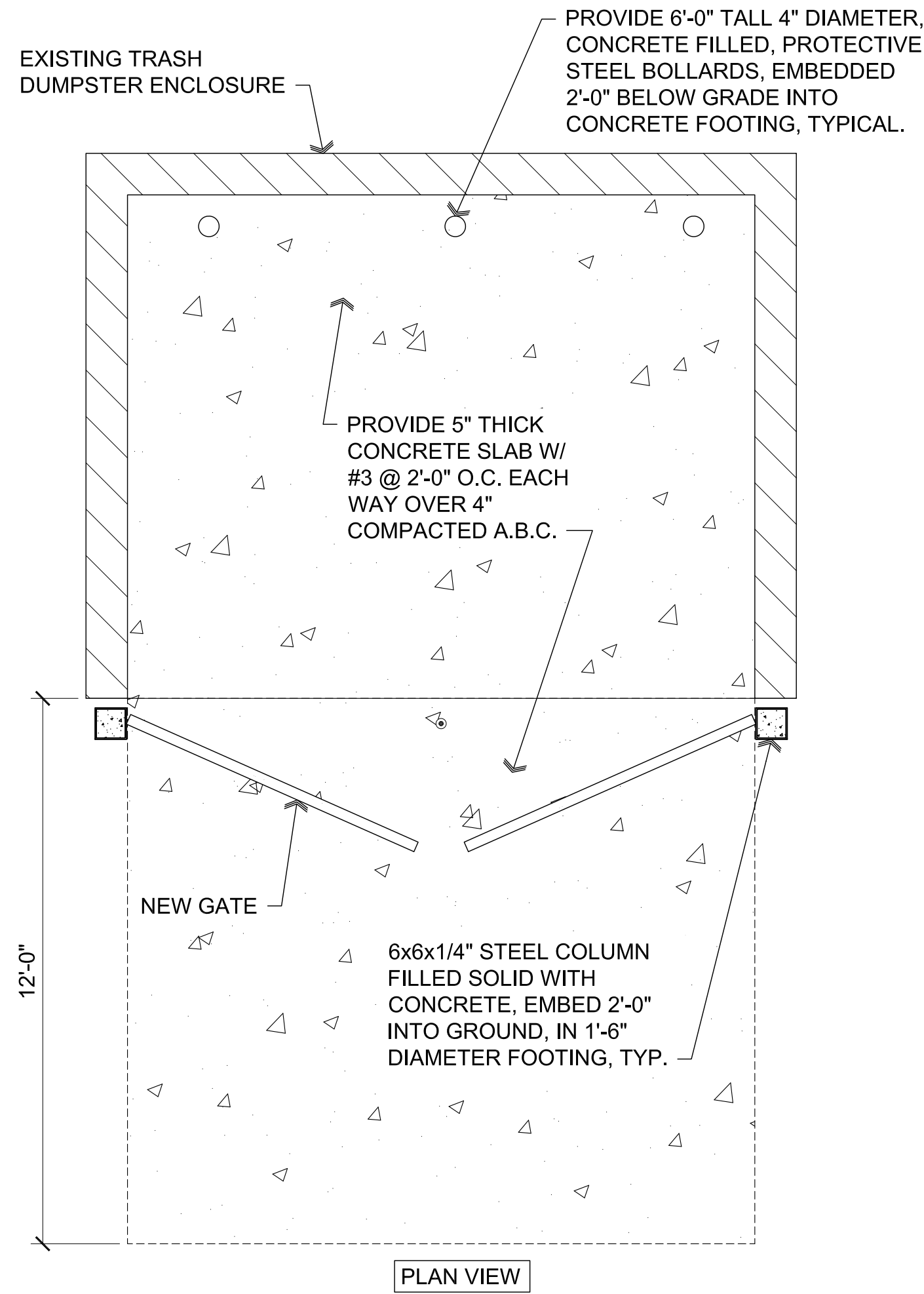
Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN:

306-14-024

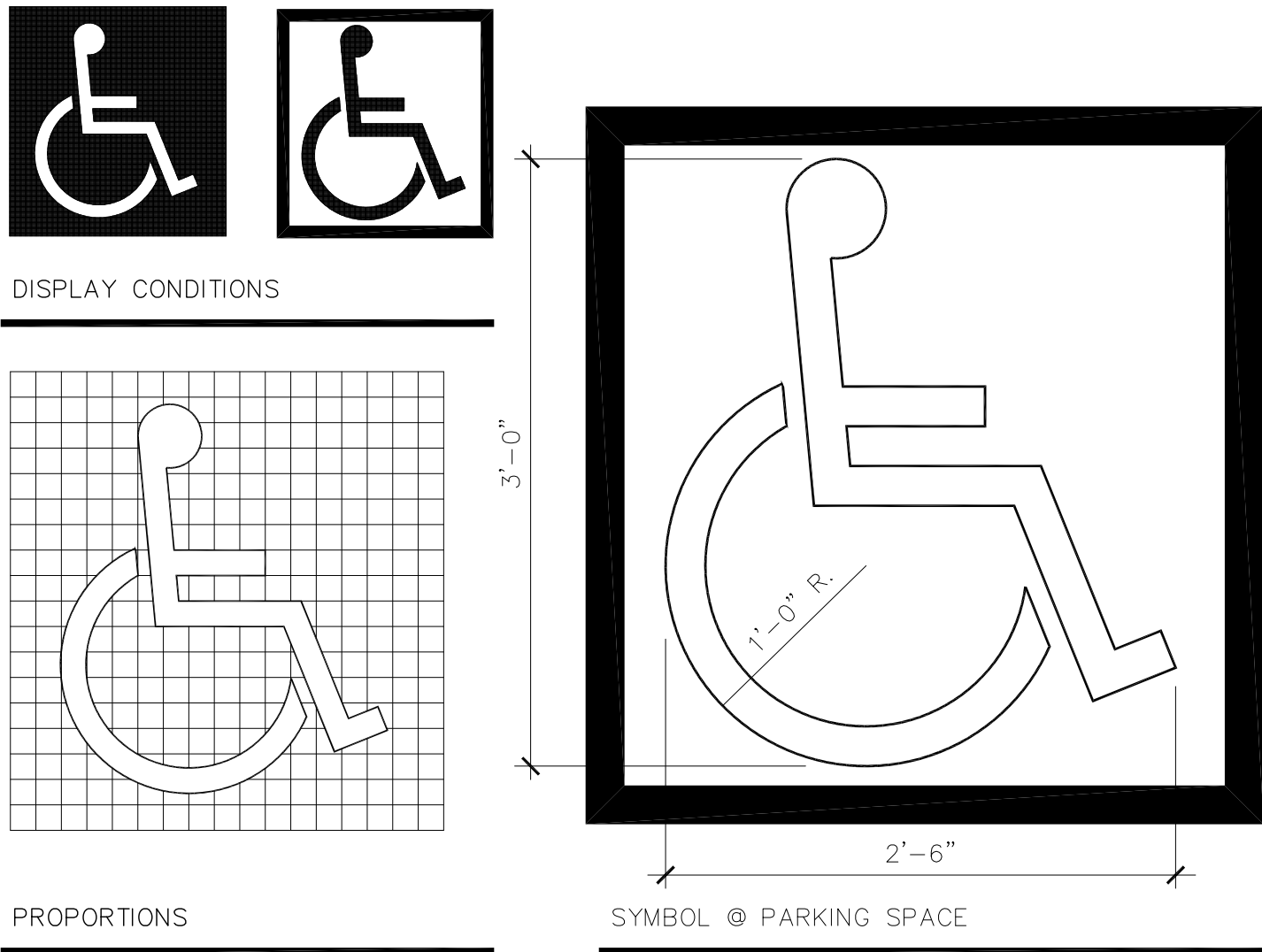
DRAWN BY L.O.
CHECKED BY W.A.K.
DATE April 8th, 2021
JOB NO. 761
SHEET

A0.1

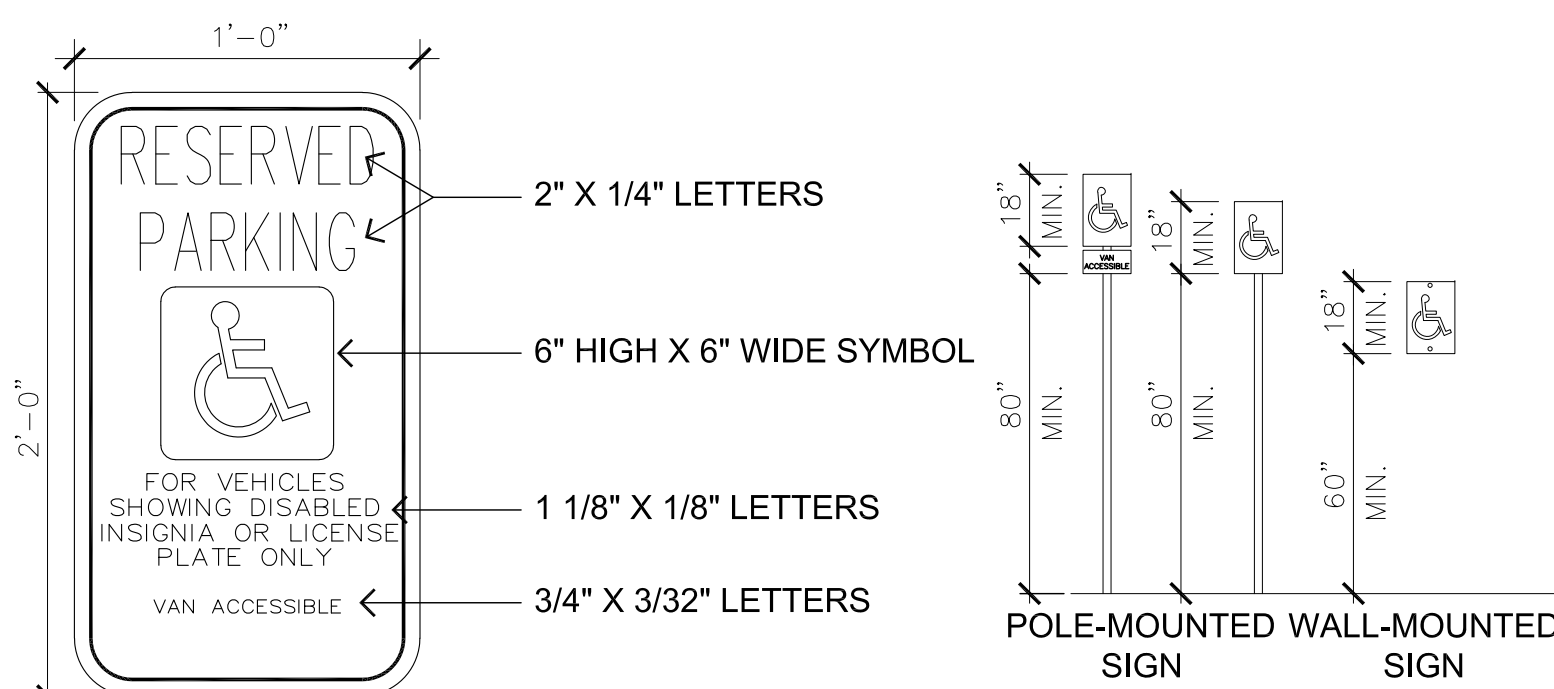


C1 Trash Dumpster Enclosure Gate

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



D2 ADA Symbol of Accessibility



1. THE SIGN PLATE SHALL BE A MINIMUM OF 12"x24" WITH A THICKNESS OF .080 ALUMINUM CONSTRUCTION.
2. THE SIGN FACE SHALL HAVE A WHITE REFLECTIVE BACKGROUND WITH A BLUE LEGEND. (STANDARD 3M SCOTCHLITE SIGN FACE NUMBER R7-32 OR EQUIVALENT, WITH BLUE SCREEN PRINTED LETTER AS SHOWN ABOVE.)
3. ALL ACCESSIBLE PARKING SPACES SHALL BE IDENTIFIED BY A SIGN ON A CITY APPROVED STATIONARY POST OR WALL LOCATION. THESE SIGNS SHALL NOT BE OBSCURED.
4. ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED FOR PHYSICALLY DISABLED BY A SIGN SHOWING THE INTERNATIONAL WHEELCHAIR SYMBOL IN COLOR SCHEME ON CONTRASTING BACKGROUND.
5. THE SIGN SHALL HAVE THE MINIMUM VERBIAGE OF "RESERVED PARKING" AND INTERNATIONAL WHEELCHAIR SYMBOL.

D1 Accessible Parking Sign

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

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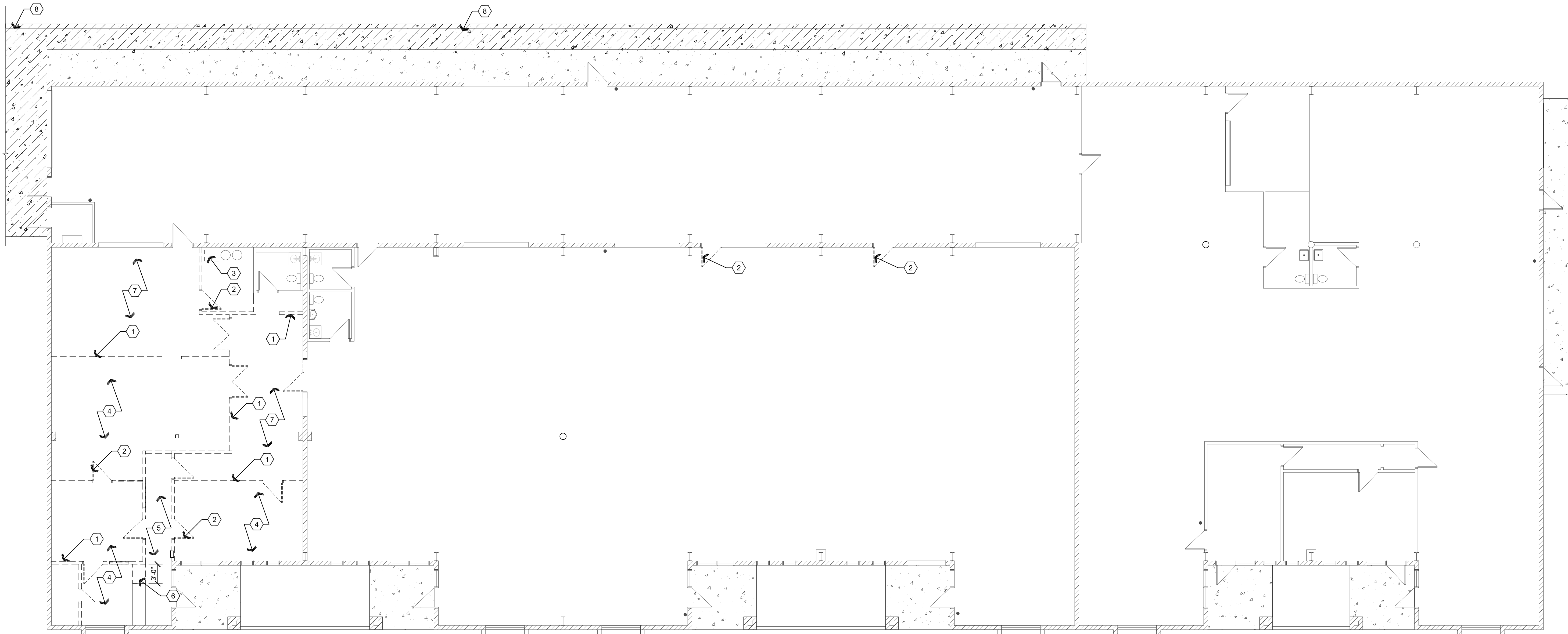
DRAWING: Site Details

PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN: 306-14-024

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A1 Demolition Floor Plan

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



Descriptive Keynotes

1. OWNER TO REMOVE EXISTING WALL, TYPICAL.
2. OWNER TO REMOVE EXISTING DOOR, TYPICAL.
3. REMOVE EXISTING FURNACE.
4. OWNER TO REMOVE EXISTING CARPET.
5. OWNER TO REMOVE EXISTING TILE.
6. REMOVE PORTION OF EXISTING MILLWORK AND REFINISH AS REQUIRED.
7. OWNER TO REMOVE EXISTING VINYL FLOORING.
8. REMOVE CONCRETE, REFER TO SITE DEMOLITION PLAN AND CIVIL PLANS

NOTE: REFER TO DEMOLITION REFLECTED CEILING PLAN FOR CEILING DEMOLITION REQUIREMENTS.

NOTE: REFER TO DEMOLITION ELECTRICAL LIGHTING PLAN.

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DRAWING: Demolition Floor plan

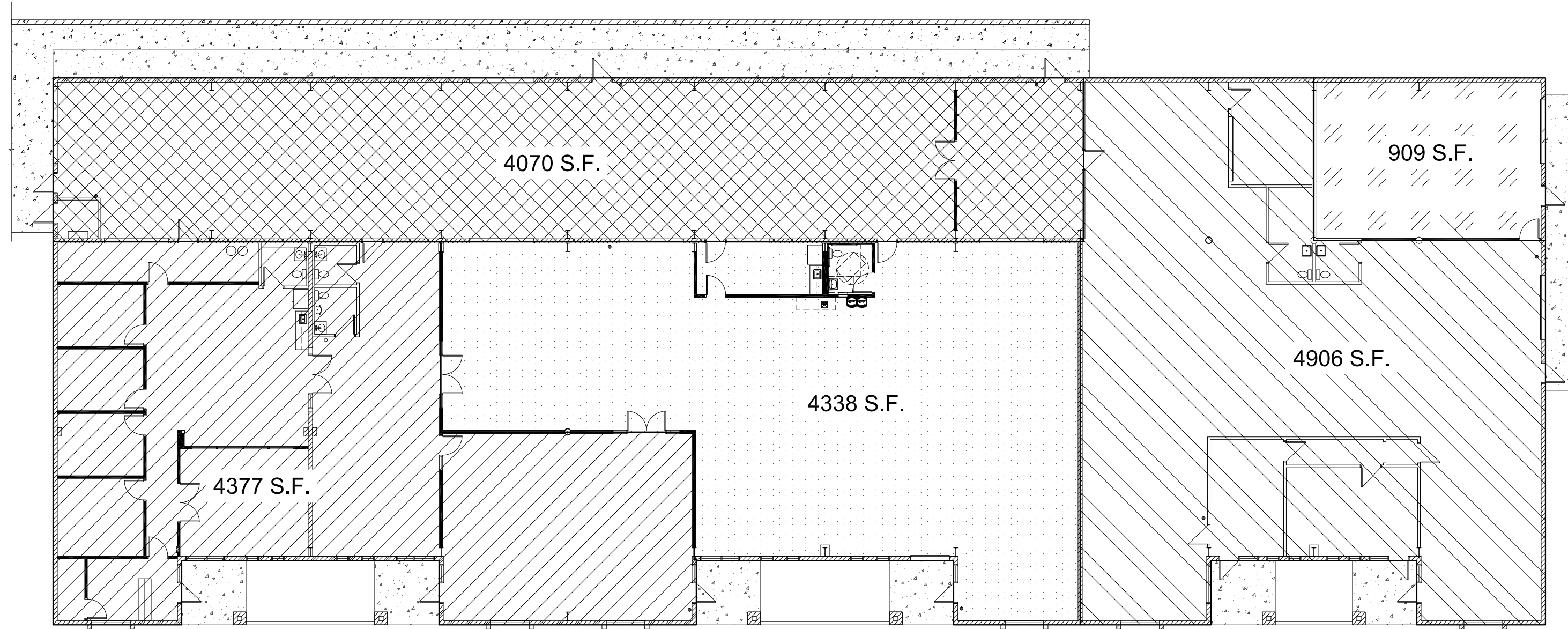
PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN: 306-14-024

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A2 Building Areas

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



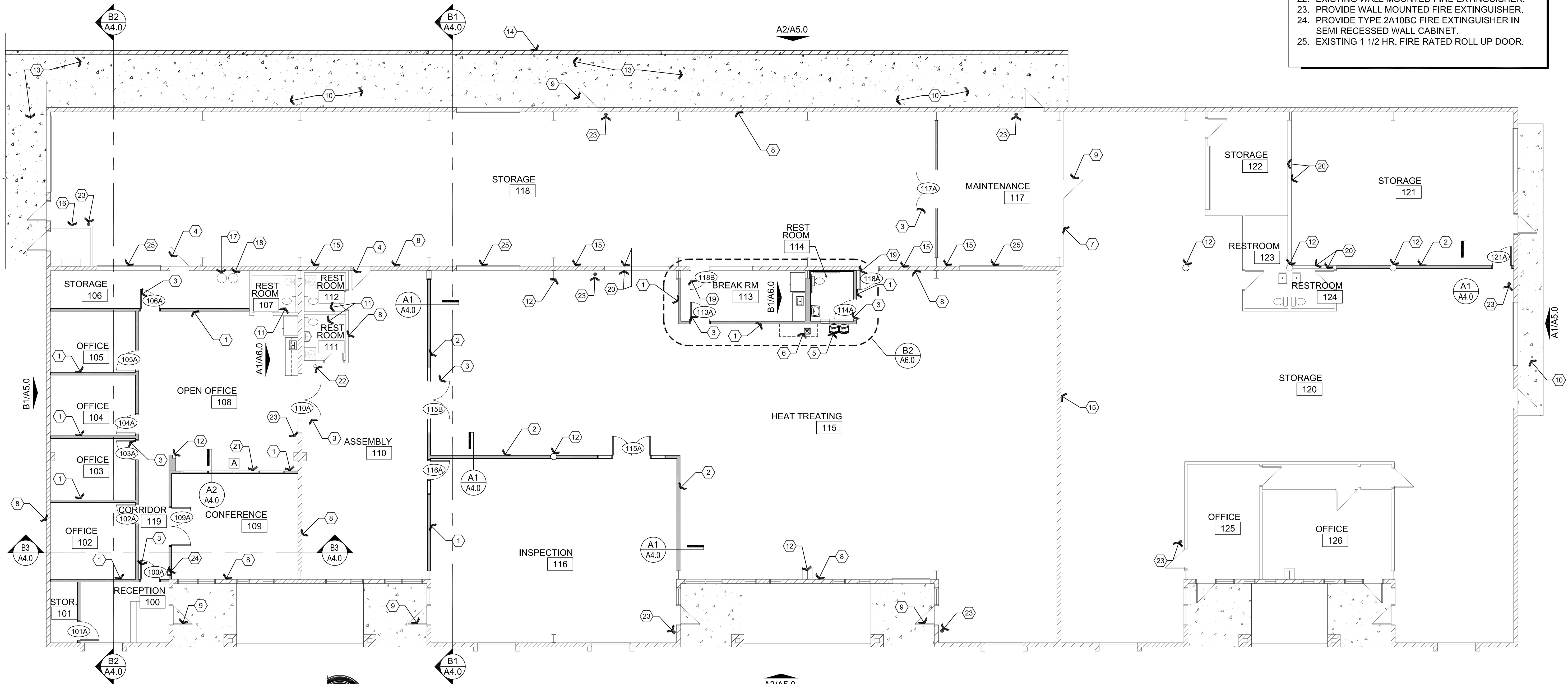
Building Areas Legend

- BUILDING AREA 1 4377 S.F.
- BUILDING AREA 2 4070 S.F.
- BUILDING AREA 3 4338 S.F.
- BUILDING AREA 4 4906 S.F.
- BUILDING AREA 5 909 S.F.

BUILDING AREAS TO BE SEPARATED FROM ONE ANOTHER WITH MINIMUM 2 HR FIRE RATED WALL WITH FIRE RATED OPENINGS, REFER TO WALL TYPES PLAN.

Descriptive Keynotes

1. PROVIDE WALL, REFER TO WALL TYPES PLAN.
2. PROVIDE 2 HOUR FIRE WALL, REFER TO WALL TYPES PLAN.
3. PROVIDE DOOR, REFER TO DOOR SCHEDULE.
4. EXISTING 90 MIN FIRE RATED DOOR TO REMAIN.
5. PROVIDE HIGH / LOW ADA COMPLIANT ELECTRIC DRINKING FOUNTAIN, REFER TO PLUMBING PLANS.
6. PROVIDE FLOOR SINK, REFER TO PLUMBING PLANS.
7. EXISTING 2 HR. FIRE RATED PARTITION. CONTRACTOR TO CONFIRM CONSTRUCTION.
8. EXISTING WALL, TYPICAL.
9. EXISTING DOOR, TYPICAL.
10. EXISTING CONCRETE SLAB, REFER TO CIVIL PLANS.
11. EXISTING RESTROOM, NO WORK.
12. EXISTING COLUMN, TYPICAL.
13. PROVIDE NEW CONCRETE SLAB, REFER TO CIVIL PLANS.
14. PROVIDE 8' TALL CMU WALL, REFER TO ARCHITECTURAL SITE PLAN AND CIVIL PLANS.
15. EXISTING CMU WALL WITH MIN. 2 HOUR FIRE RATING.
16. EXISTING ELECTRICAL ROOM.
17. EXISTING WATER HEATER.
18. EXISTING PRESSURE TANK.
19. EXISTING 30 MIN FIRE DOOR TO BE REPLACED WITH 90 MIN FIRE RATED DOOR.
20. PROVIDE 1 ADDITIONAL LAYER 5/8" TYPE 'X' GPDW ON EXISTING STUDS BOTH SIDES, REFER TO WALL TYPES PLAN.
21. PROVIDE WINDOW, REFER TO WINDOW TYPES.
22. EXISTING WALL MOUNTED FIRE EXTINGUISHER.
23. PROVIDE WALL MOUNTED FIRE EXTINGUISHER.
24. PROVIDE TYPE 2A10BC FIRE EXTINGUISHER IN SEMI RECESSED WALL CABINET.
25. EXISTING 1 1/2 HR. FIRE RATED ROLL UP DOOR.



A1 Reference Floor Plan

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



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DRAWING: Reference Floor Plan and Building Areas Plan

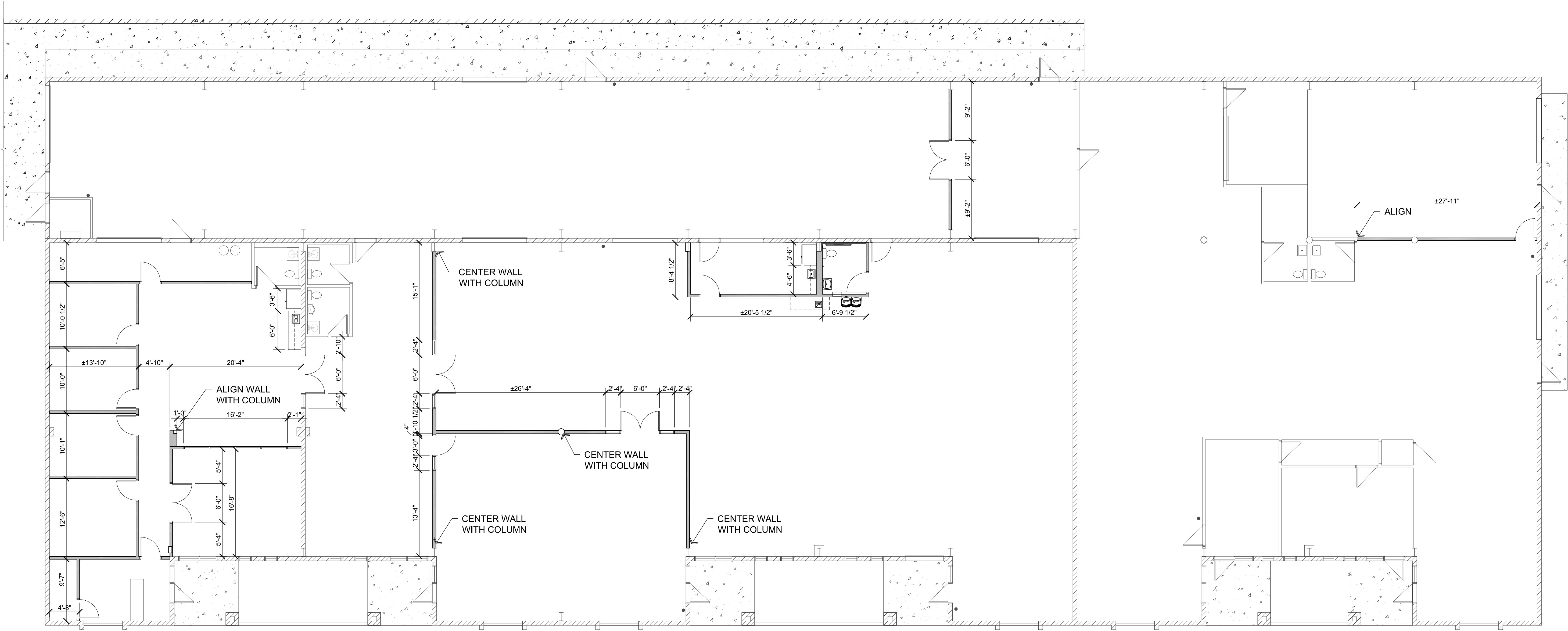
PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN: 306-14-024

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A2.0

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AI Dimension Floor Plan

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



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ARCHITECTURE & PLANNING

DRAWING: Dimension Floor plan

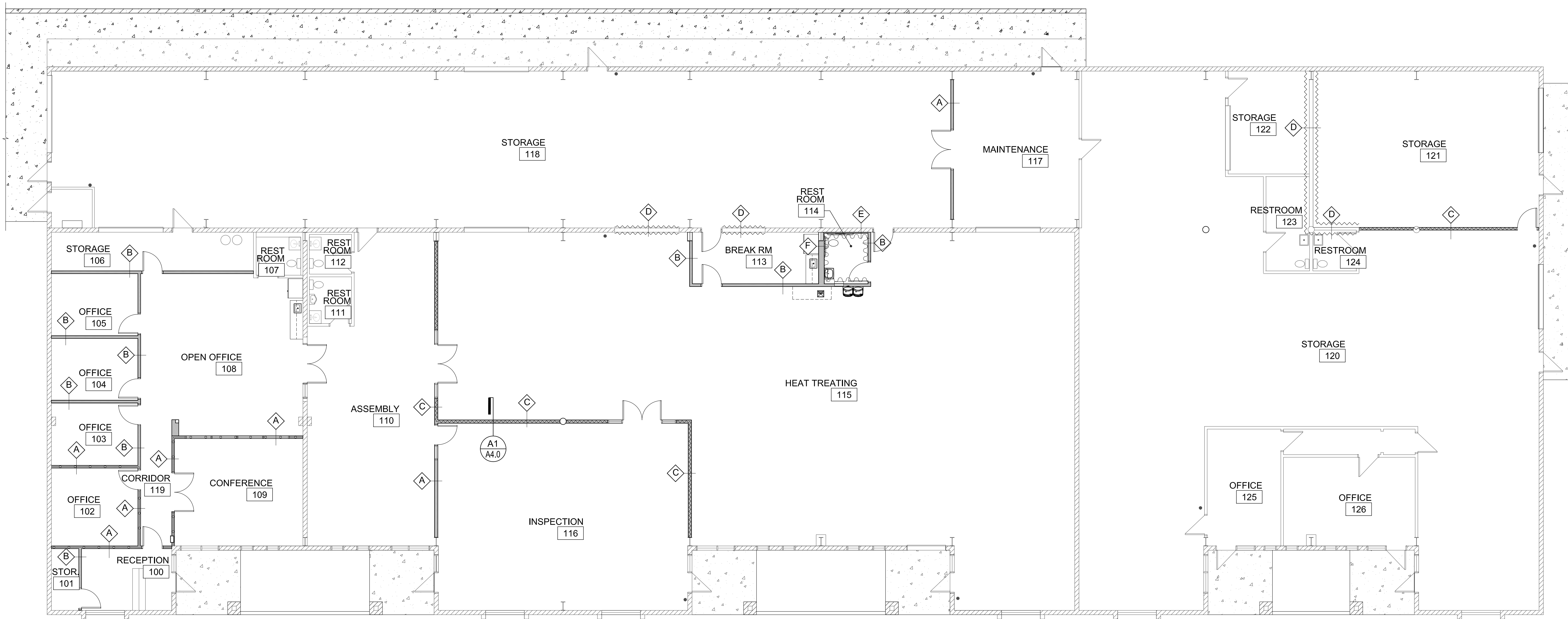
PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN: 306-14-024

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DATE April 8th, 2021
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A2.1

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A1 Wall Types Plan

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



Wall Types Legend

- A** 3-5/8" STUD WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXPOSED SIDES. PROVIDE R-11 UNFACED BATT INSULATION. WALL TO EXTEND TO CEILING.
- B** 3-5/8" STUD WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXPOSED SIDES. PROVIDE R-11 UNFACED BATT INSULATION. WALL TO BE 9' TALL. EXTEND DOUBLE METAL STUD UP TO STRUCTURE AT CORNERS AND AT MID SPAN OF WALLS.
- C** 2 HOUR FIRE WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 2 LAYERS 5/8" TYPE 'X' GPDW ON BOTH SIDES. PROVIDE R-11 UNFACED BATT INSULATION. WALL TO EXTEND TO CEILING.
- D** 2 HOUR FIRE WALL: EXISTING STEEL STUDS AT 2'-0" O.C. PROVIDE 1 ADDITIONAL LAYER 5/8" TYPE 'X' GPDW ON BOTH SIDES.
- E** 1-5/8" STUD WALL: PROVIDE 1-5/8", 25 GA. STEEL STUDS FLAT @ 2'-0" O.C. OVER EXISTING CMU WALL WITH 5/8" GPDW ON EXPOSED SIDE.
- F** METAL STUD WALL: STAGGERED 3-5/8", 25 GAUGE METAL STUDS @ 2'-0" O.C. TO MATCH WIDTH OF ADJACENT COLUMN. PROVIDE 5/8" GPDW ON EXPOSED SIDES.
- 4'-0" HIGH FRP**

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ARCHITECTURE & PLANNING

DRAWING: Wall Types Plan

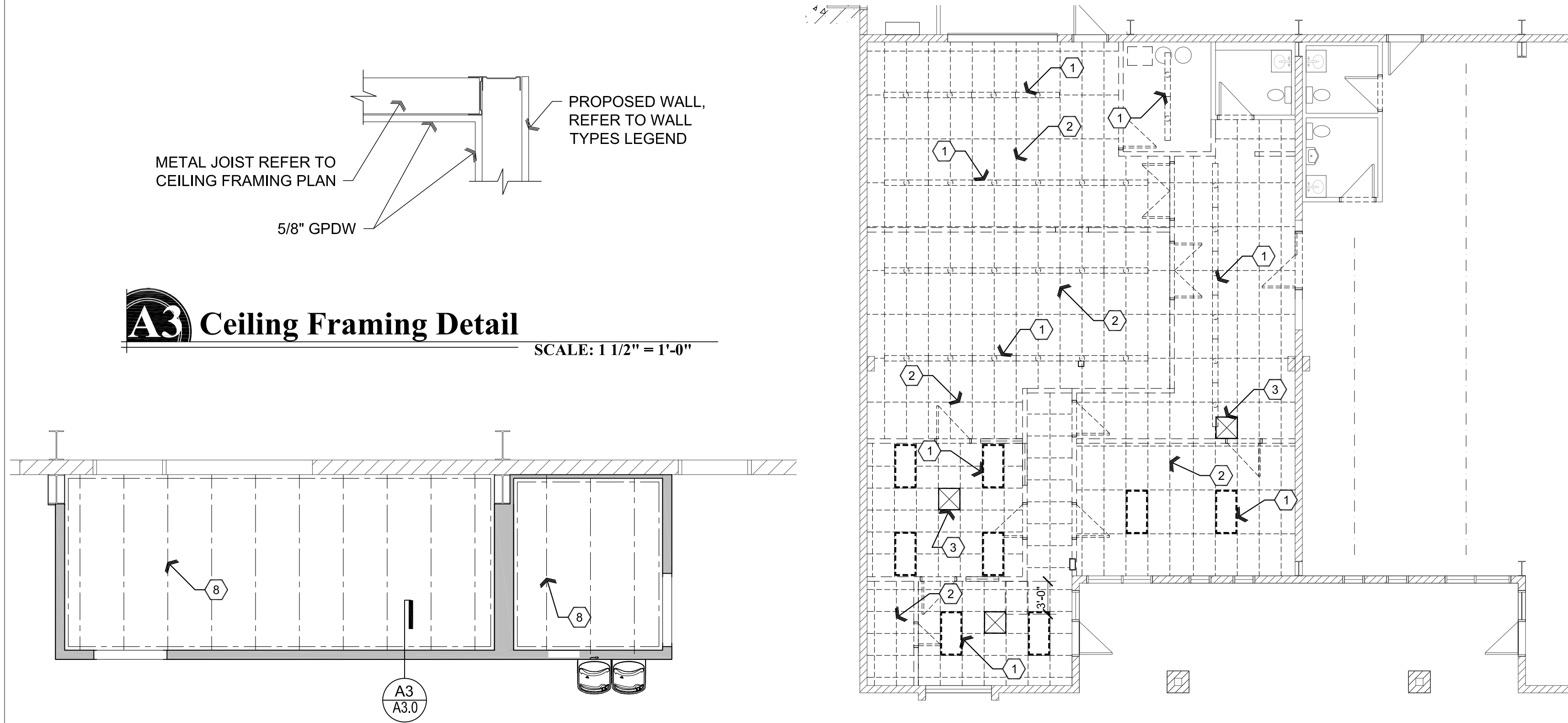
PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN: 306-14-024

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A2.2

Apr 08, 2021 - 9:18am



A2 Partial Ceiling Framing Plan
Scale: 1/4"=1'-0"
Plan North

B2 Partial Demolition Reflected Ceiling Plan
Scale: 1/8"=1'-0"
Plan North

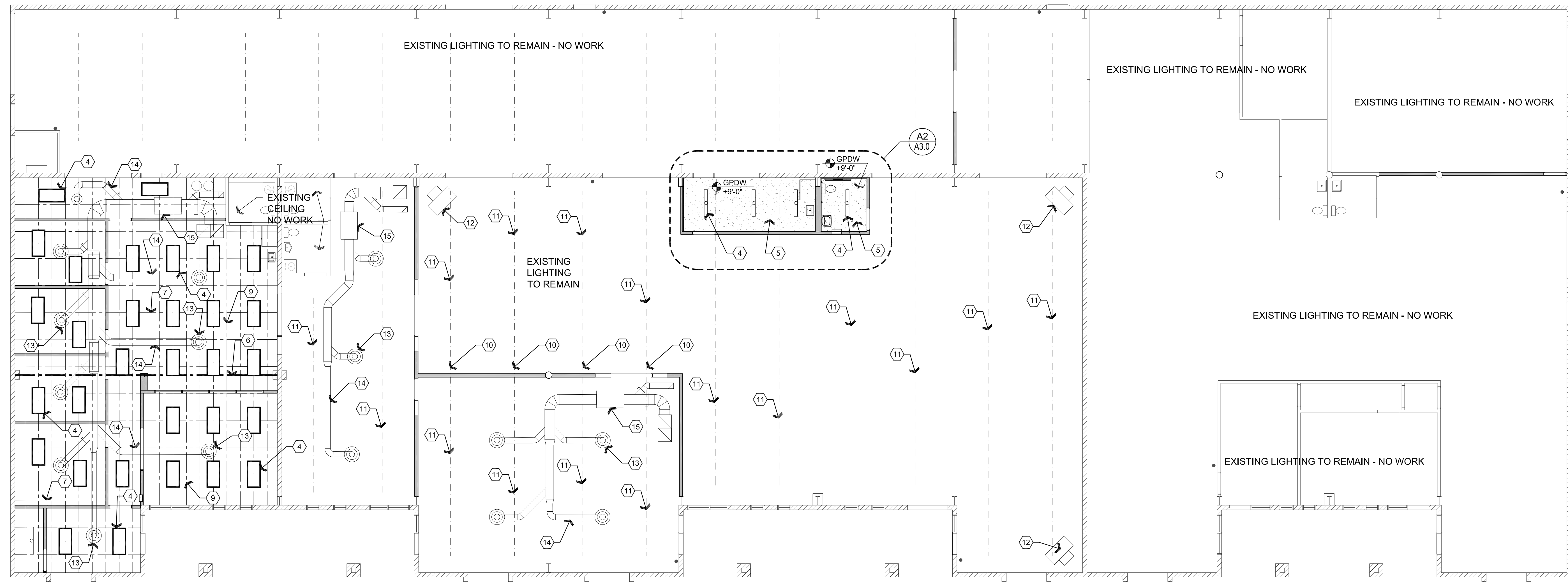
Legend:

- SUSPENDED 2'x2' ACOUSTIC PANEL CEILING TO BE REMOVED
- SUSPENDED 2'x4' ACOUSTIC PANEL CEILING TO BE REMOVED
- GPDW CEILING
- EXISTING CEILING MOUNTED LIGHTING TO BE REMOVED
- 2x4 LIGHTING TO BE REMOVED
- NEW STRIP LIGHT
- NEW 2x4 LED PENDENT FIXTURES
- EXISTING SUPPLY DIFFUSER
- EXISTING RETURN AIR REGISTER

REFER TO MECHANICAL AND ELECTRICAL PLANS

Descriptive Keynotes

- OWNER TO REMOVE EXISTING LIGHT FIXTURE, TYPICAL.
- OWNER TO REMOVE EXISTING CEILING GRID, TYPICAL.
- EXISTING HVAC SUPPLY AND RETURN DUCTWORK TO BE REMOVED.
- LIGHT FIXTURE(S) SHOWN FOR QUANTITY AND LOCATION ONLY. REFER TO ELECTRICAL PLANS.
- PROVIDE 5/8" GPDW CEILING ATTACHED TO CEILING JOISTS, REFER TO CEILING FRAMING PLAN.
- EXISTING BEAM.
- EXISTING ROOF SUPPORT MEMBRANE, TYPICAL.
- PROVIDE 6" 20 GAUGE METAL JOISTS @ 2'-0" O.C.
- EXISTING I-JOIST @ 2'-0" O.C.
- REMOVE EXISTING LIGHTING WHERE IT CONFLICTS WITH NEW FIRE WALL.
- EXISTING STRIP LIGHTING TO REMAIN UNLESS NOTED OTHERWISE.
- UNIT HEATER, REFER TO MECHANICAL PLANS.
- HVAC DIFFUSER, REFER TO MECHANICAL PLANS.
- HVAC DUCTWORK, REFER TO MECHANICAL PLANS.
- HVAC UNIT, REFER TO MECHANICAL PLANS.



A1 Proposed Reflected Ceiling Plan
Scale: 1/8"=1'-0"
Plan North

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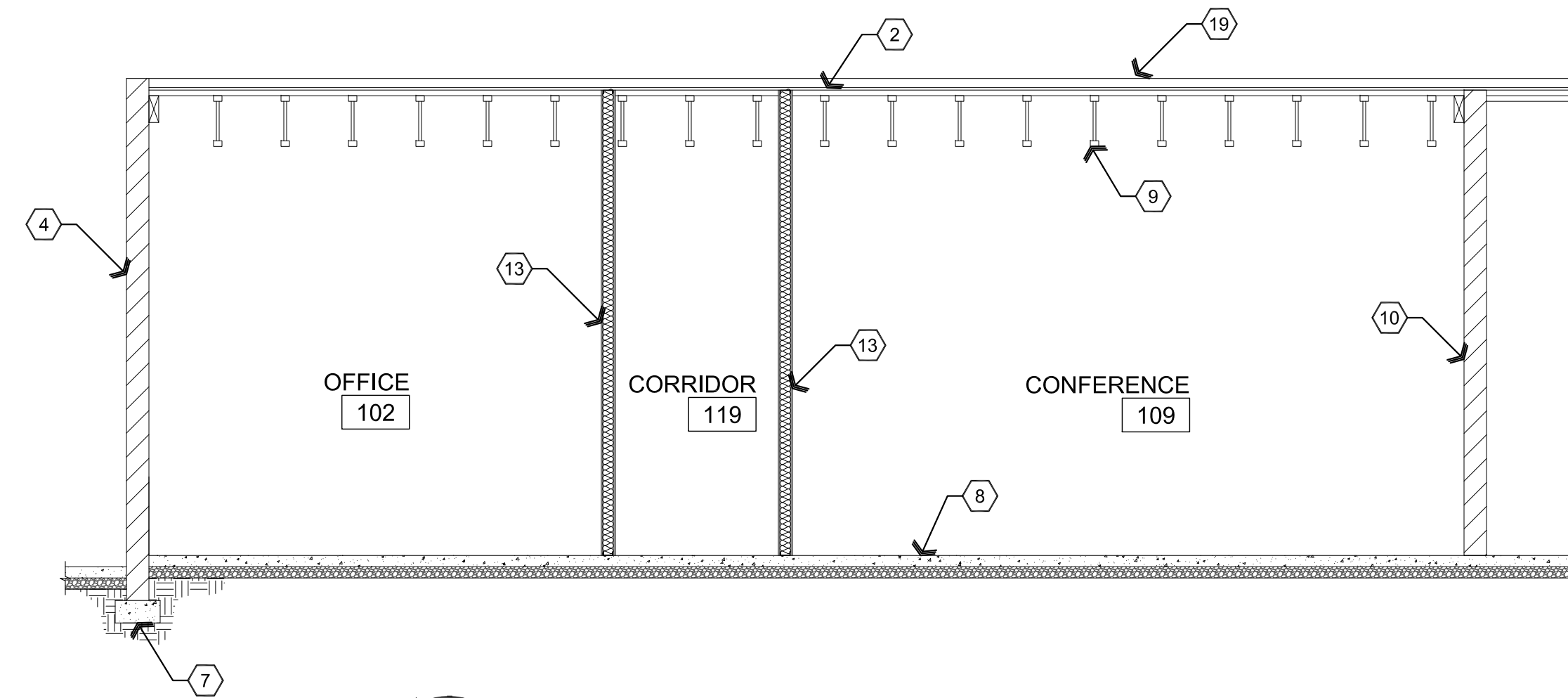
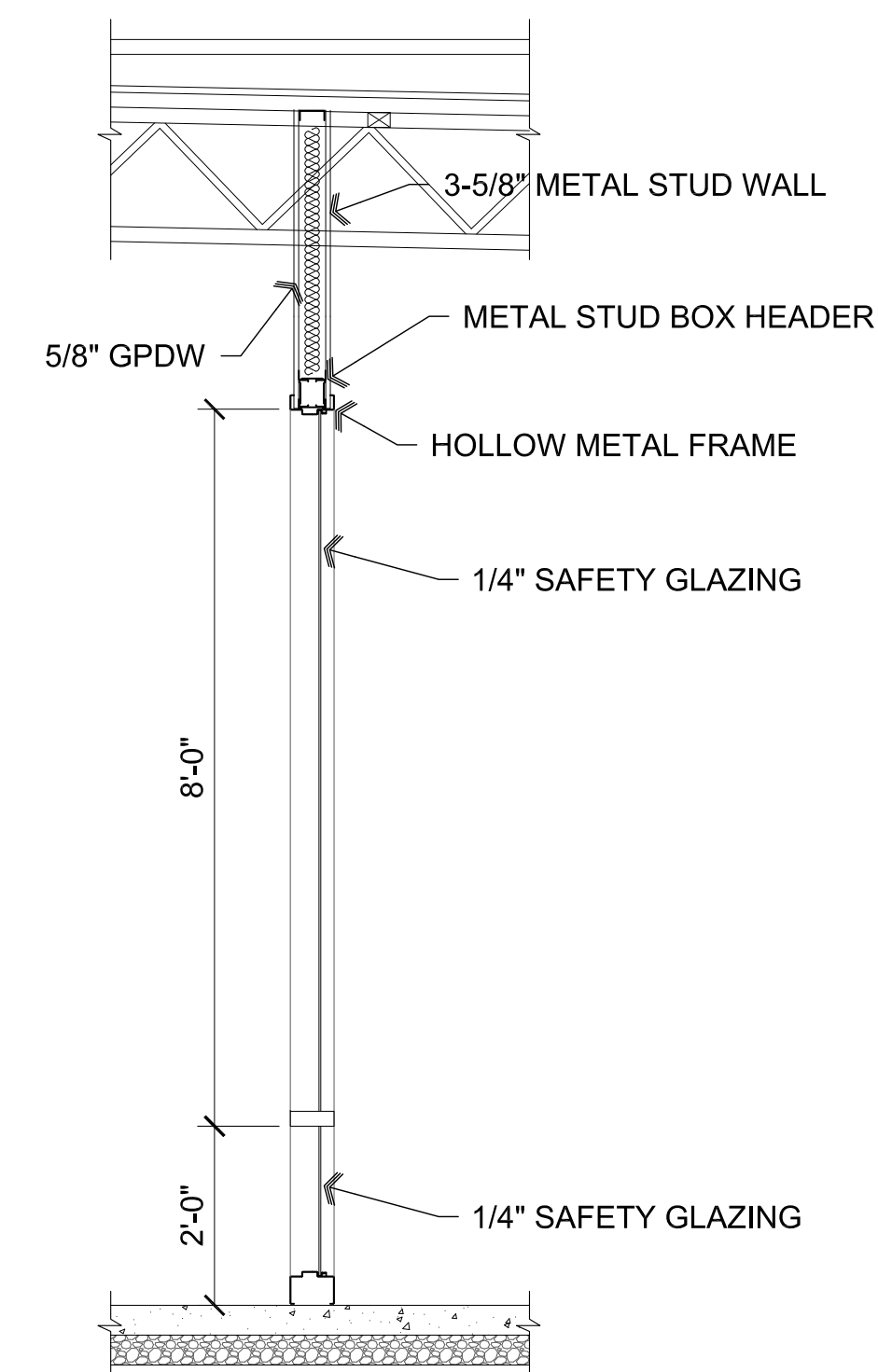


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ARCHITECTURE & PLANNING

DRAWING: Demolition and Proposed Reflected Ceiling Plan
Framing Plan and Framing Detail
PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323
APN: 306-14-024

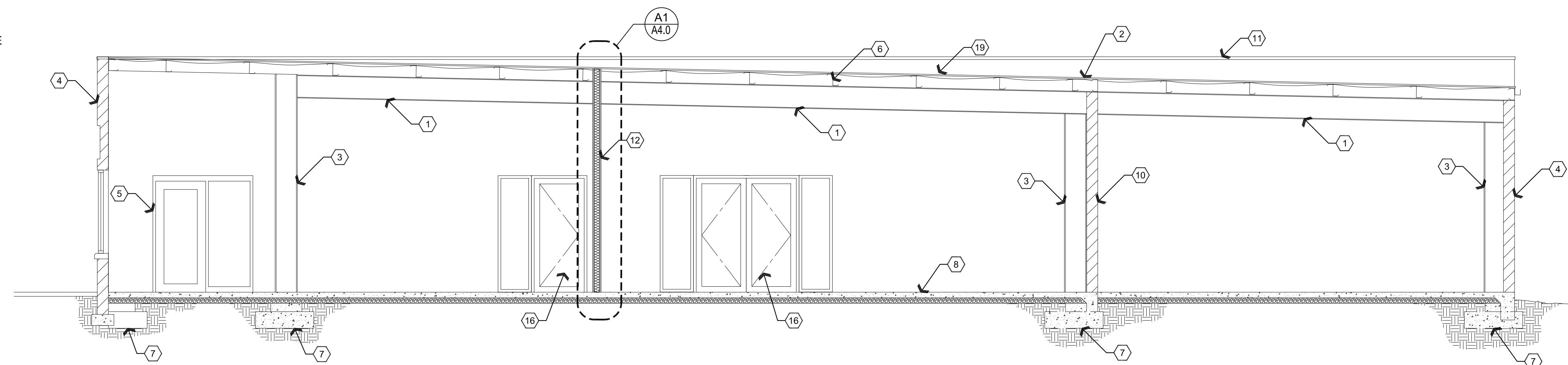
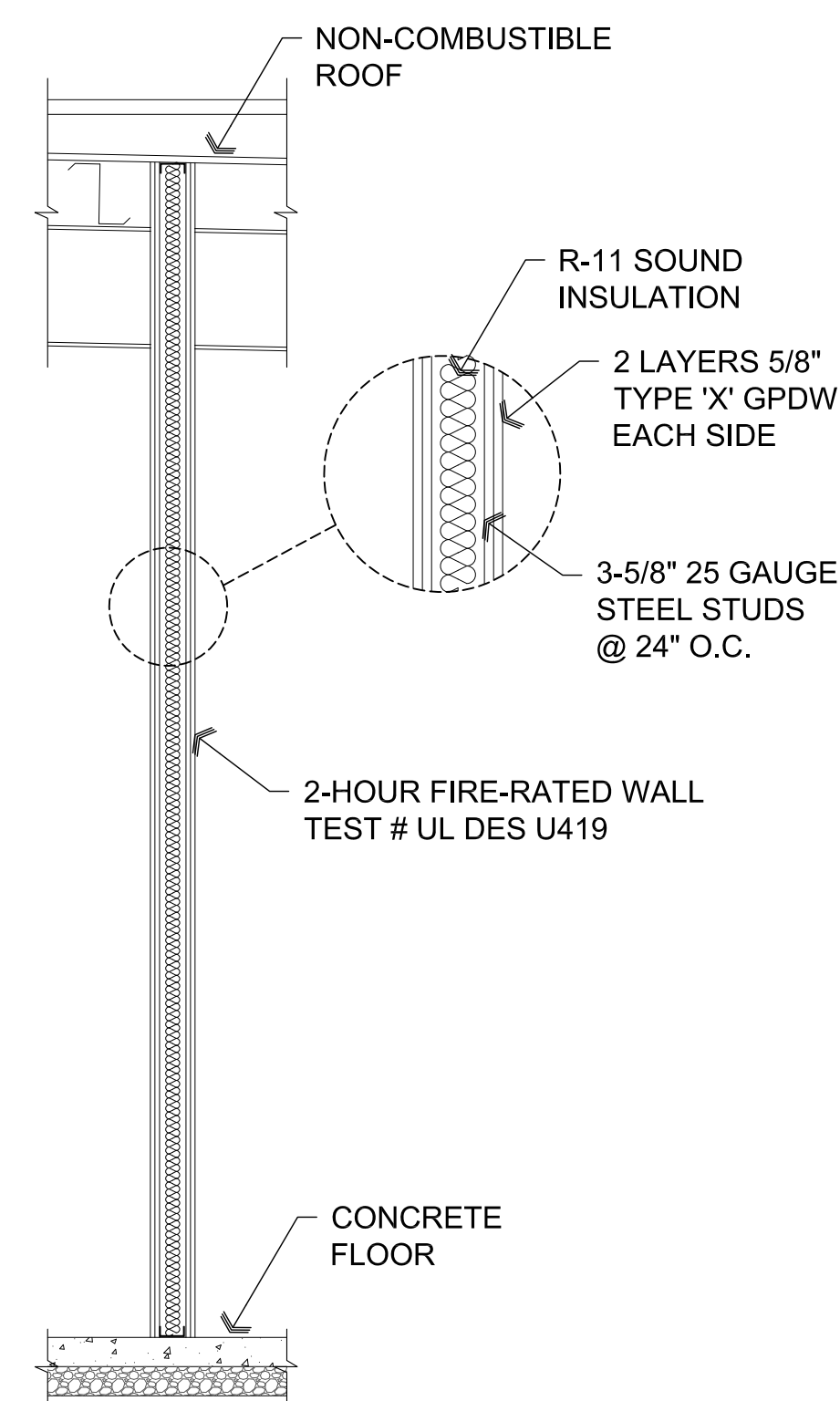
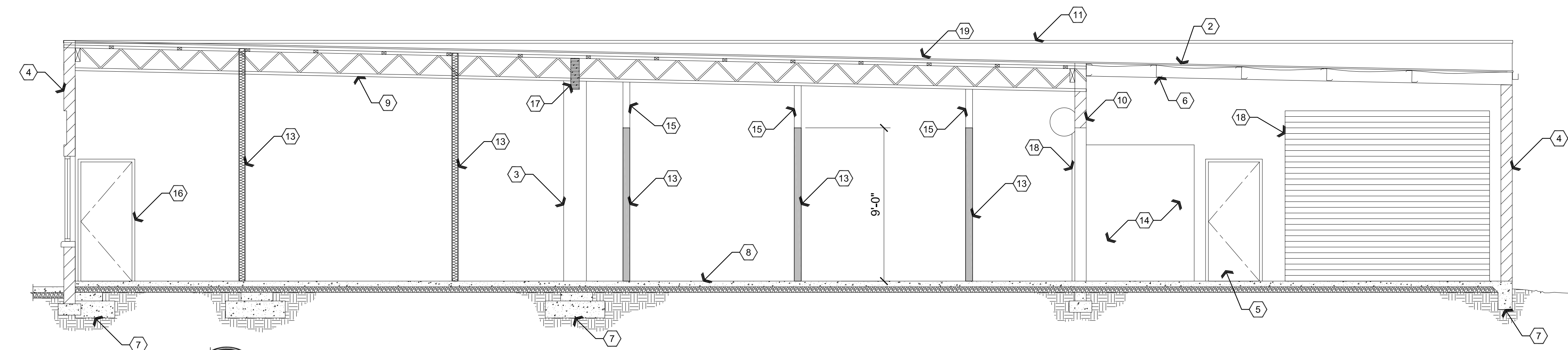
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CHECKED BY W.A.K.
DATE April 8th, 2021
JOB NO. 761
SHEET

A3.0



- ## Descriptive Keynotes

1. EXISTING STEEL BEAM.
2. EXISTING NON-COMBUSTIBLE ROOF.
3. EXISTING COLUMN.
4. EXISTING EXTERIOR WALL.
5. EXISTING DOOR.
6. EXISTING ROOF PURLIN.
7. EXISTING FOOTING.
8. EXISTING SLAB.
9. EXISTING I-JOIST.
10. EXISTING MASONRY WALL.
11. EXISTING MASONRY PARAPET.
12. PROVIDE 2 HOUR FIRE RATED WALL, REFER TO WALL TYPES.
13. PROVIDE WALL, REFER TO WALL TYPES.
14. EXISTING WALL.
15. EXTEND DOUBLE METAL STUD UP TO STRUCTURE AT CORNERS AND AT MID SPAN OF WALLS.
16. PROVIDE DOOR, REFER TO DOOR SCHEDULE.
17. EXISTING GLB.
18. EXISTING ROLL-UP DOOR.
19. REPAIR ALL EXISTING LEAKS AND PENETRATIONS ALONG WITH NEW PENETRATIONS THAT NEED SEALING OR REPAIR, TYPICAL OF ENTIRE ROOF.



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TECTURE & PLANNING

ARCHITECTURE & PLANNING

DRAWING: Building sections

PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN: 306-14-024

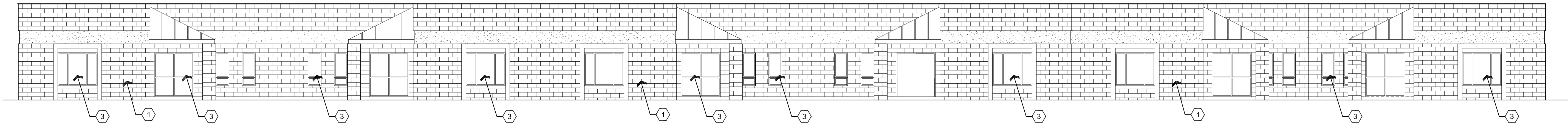
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Apr 08, 2021 - 9:18am

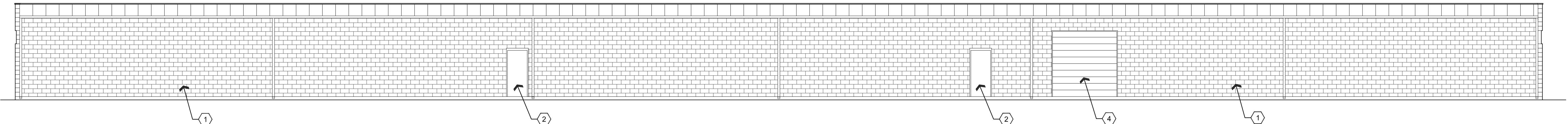
Descriptive Keynotes

1. EXISTING EXTERIOR CMU WALL.
2. EXISTING DOOR.
3. EXISTING WINDOW.
4. EXISTING ROLL UP DOOR.



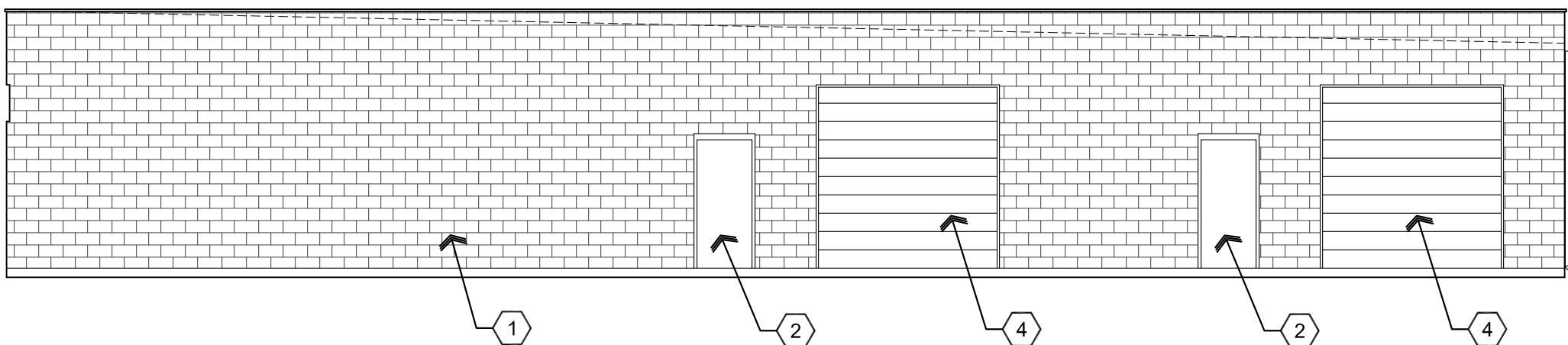
A3 South Elevation - No work

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



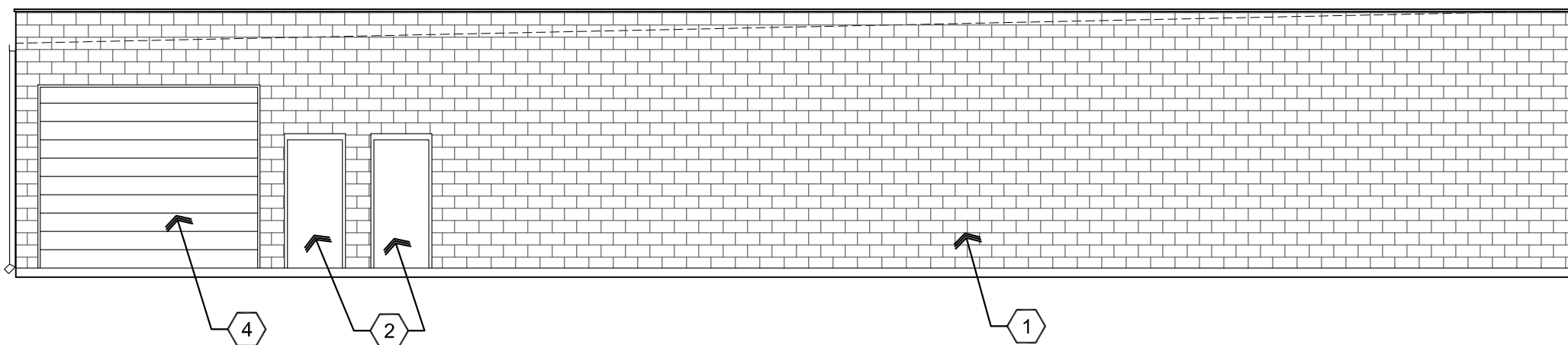
A2 North Elevation - No work

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



A1 East Elevation - No work

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



B1 West Elevation - No work

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

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ARCHITECTURE & PLANNING

DRAWING: Exterior Elevations - No Work

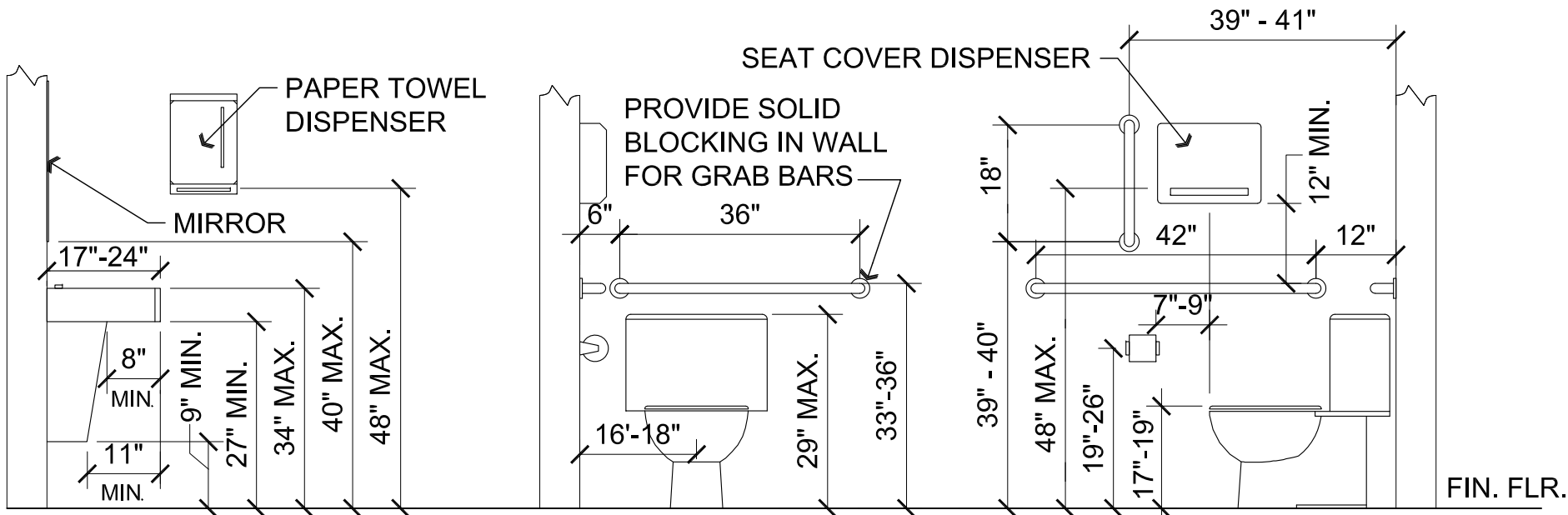
PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN: 306-14-024

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CHECKED BY W.A.K.
DATE April 8th, 2021
JOB NO. 761
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A5.0

Toilet Accessory Schedule ##-#					
CODE	FIXTURE	DESCRIPTION	MANUFACTURER	MODEL	COLOR
TA-1	HAND SOAP DISPENSER	SURFACE MOUNTED	BOBRICK	B-2111	STAINLESS STEEL
TA-2	PAPER TOWEL DISPENSER	RECESSED W/ TRASH	BOBRICK	B-3944	STAINLESS STEEL
TA-3	GRAB BARS 42", 36", 18"	1 1/4" DIAMETER	BOBRICK	B-5806	STAINLESS STEEL
TA-4	TOILET SEAT COVER DISPENSER	HALF FOLD	BOBRICK	B-221	STAINLESS STEEL
TA-5	TOILET PAPER DISPENSER	SURFACE MOUNTED	BOBRICK	B-2888	STAINLESS STEEL
TA-6	MIRROR	18"x36"x1/4"	BOBRICK	B165 1836	STAINLESS STEEL

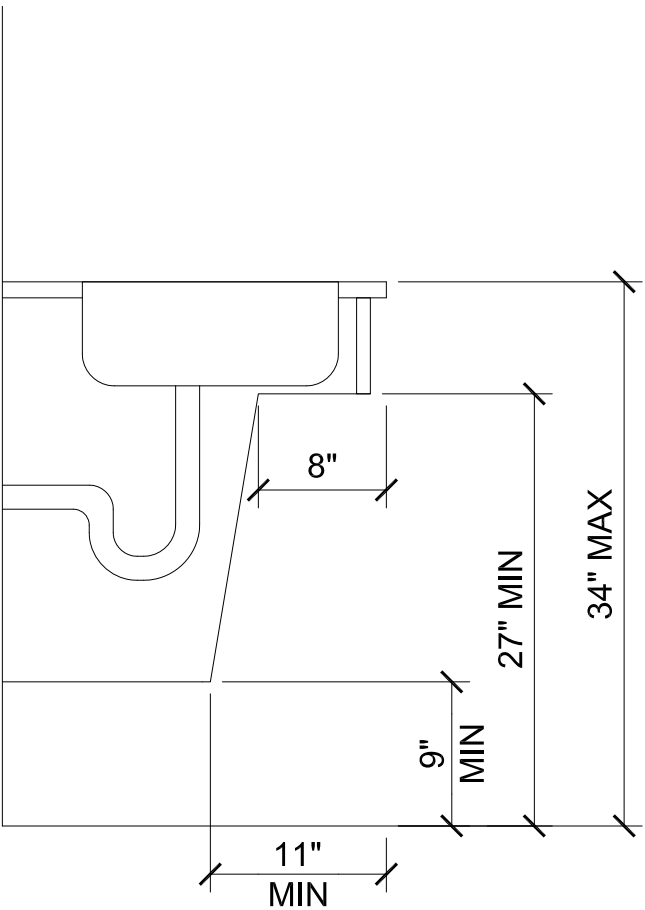


A3 Typical Fixture Mounting Heights

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

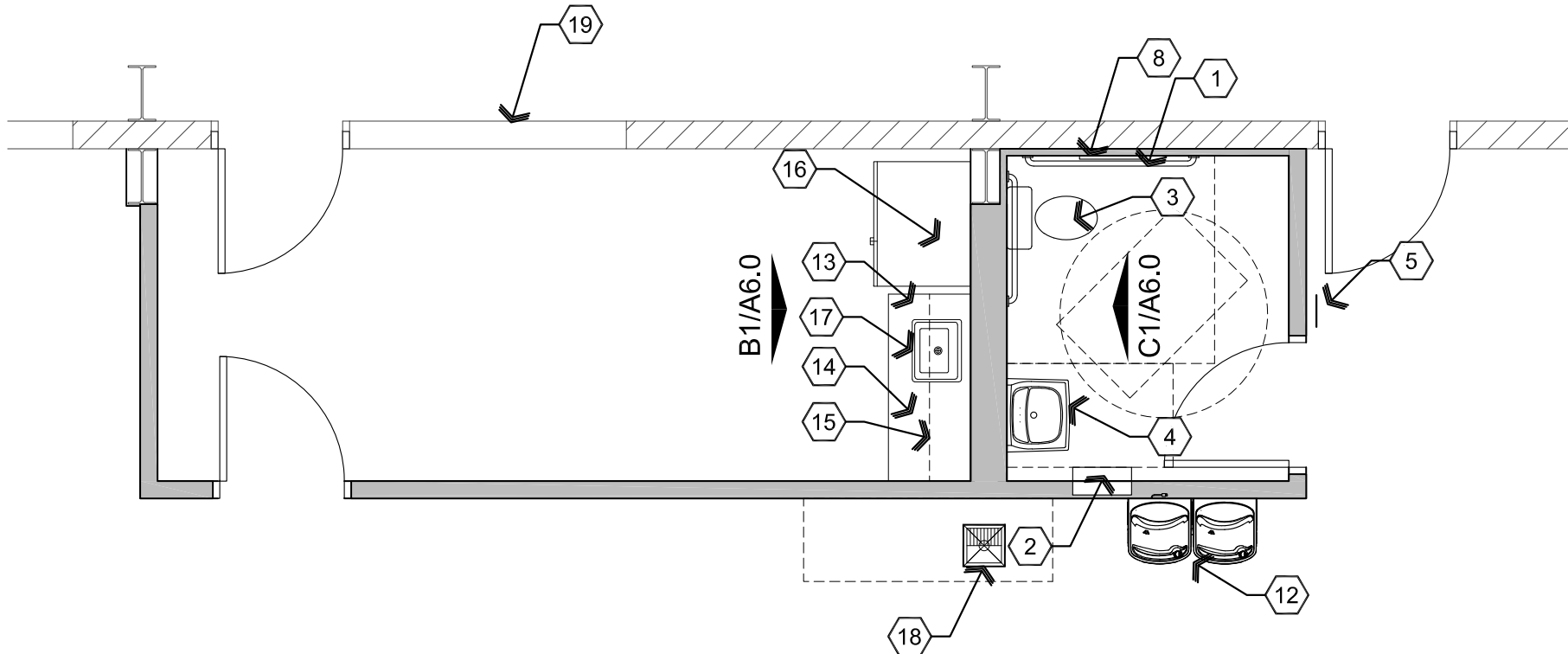
Descriptive Keynotes

1. PROVIDE 1-1/2" DIAMETER GRAB BARS PER A.D.A. REQUIREMENTS, 42" LONG AT SIDE OF WATER CLOSET / 36" LONG AT REAR OF WATER CLOSET / 18" VERTICAL GRAB BAR, PROVIDE SOLID BLOCKING. REFER TO TOILET ACCESSORY SCHEDULE. TA-3
2. PROVIDE PAPER TOWEL DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-2
3. PROVIDE FLOOR MOUNTED WATER CLOSET, REFER TO PLUMBING DRAWINGS.
4. PROVIDE WALL HUNG LAVATORY, REFER TO PLUMBING DRAWINGS.
5. PROVIDE ACCESSIBILITY SIGNAGE MOUNTED PER A.D.A. REQUIREMENTS.
6. PROVIDE 1/4" PLATE MIRROR, REFER TO TOILET ACCESSORY SCHEDULE. TA-6
7. PROVIDE SURFACE MOUNTED HAND SOAP DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-1
8. PROVIDE SURFACE MOUNTED TOILET SEAT COVER DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-4
9. PROVIDE TOILET PAPER DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-5
10. PROVIDE FRP TO 4'-0" HIGH.
11. PROVIDE RUBBER BASE.
12. PROVIDE A.D.A ACCESSIBLE ELECTRIC DRINKING FOUNTAIN, REFER TO PLUMBING PLANS.
13. PROVIDE PLASTIC LAMINATE LOWER CABINET. PL-1
14. PROVIDE PLASTIC LAMINATE COUNTERTOP WITH 4" BACKSPASH. PL-2
15. PROVIDE PLASTIC LAMINATE UPPER CABINET. PL-1
16. REFRIGERATOR BY OWNER.
17. PROVIDE SINK AND FAUCET, REFER TO PLUMBING PLANS.
18. FLOOR SINK, REFER TO PLUMBING PLANS.
19. CONTRACTOR TO CONFIRM AND MODIFY, IF NECESSARY, THAT TWO LAYERS OF 5/8" TYPE 'X' DRYWALL EXIST.



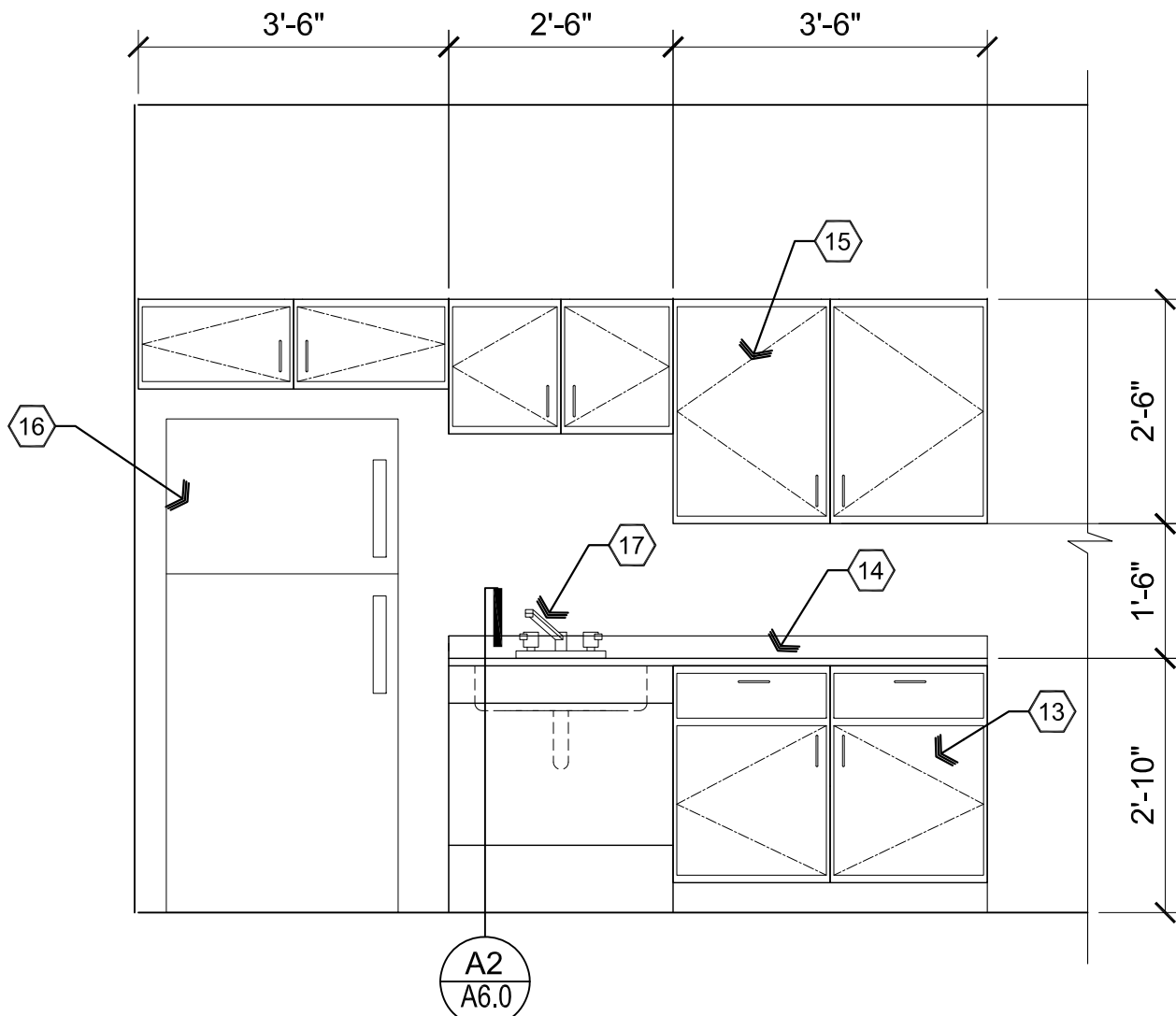
A2 ADA Sink Cabinet Detail

Scale: 1"=1'-0"



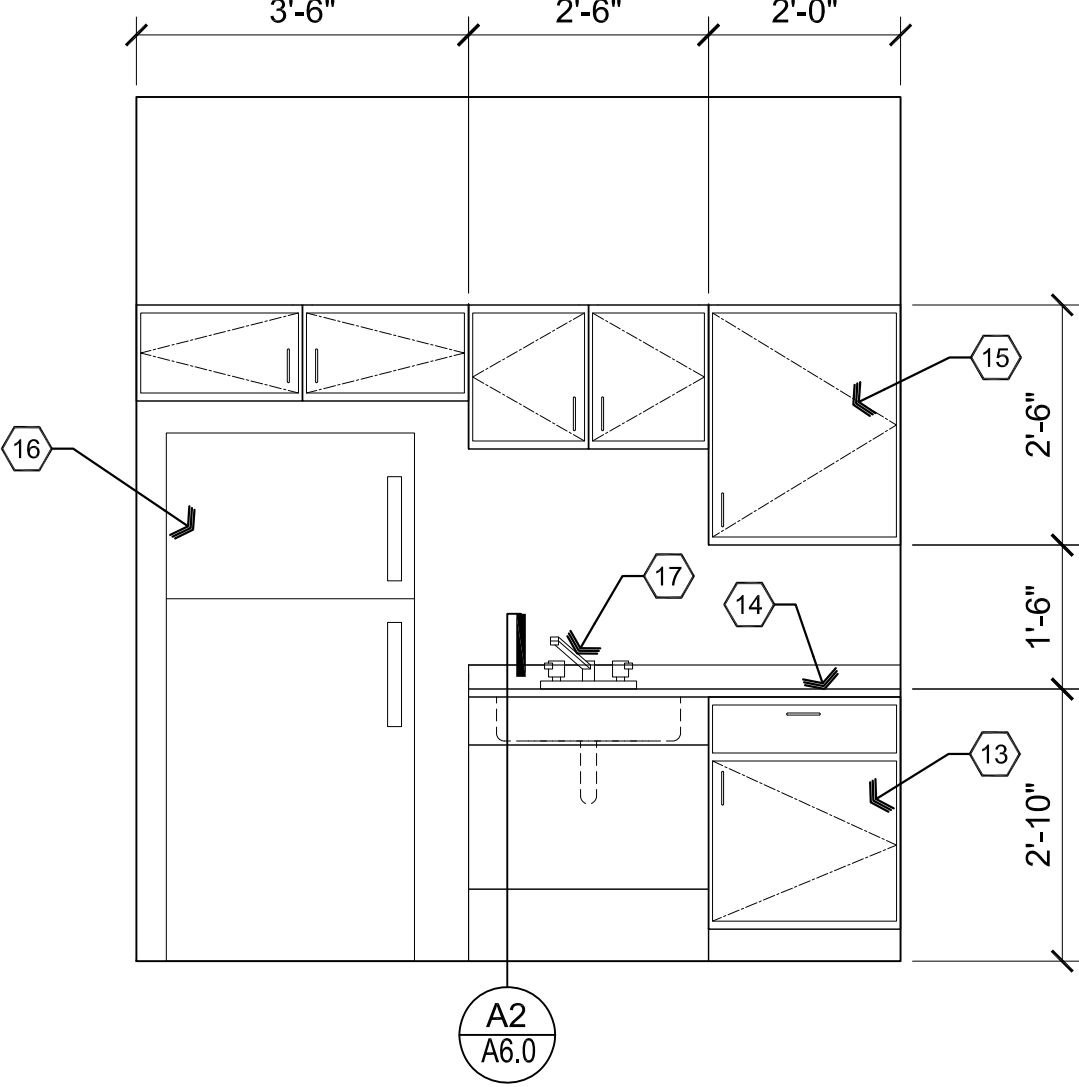
B2 Reference Floor Plan

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



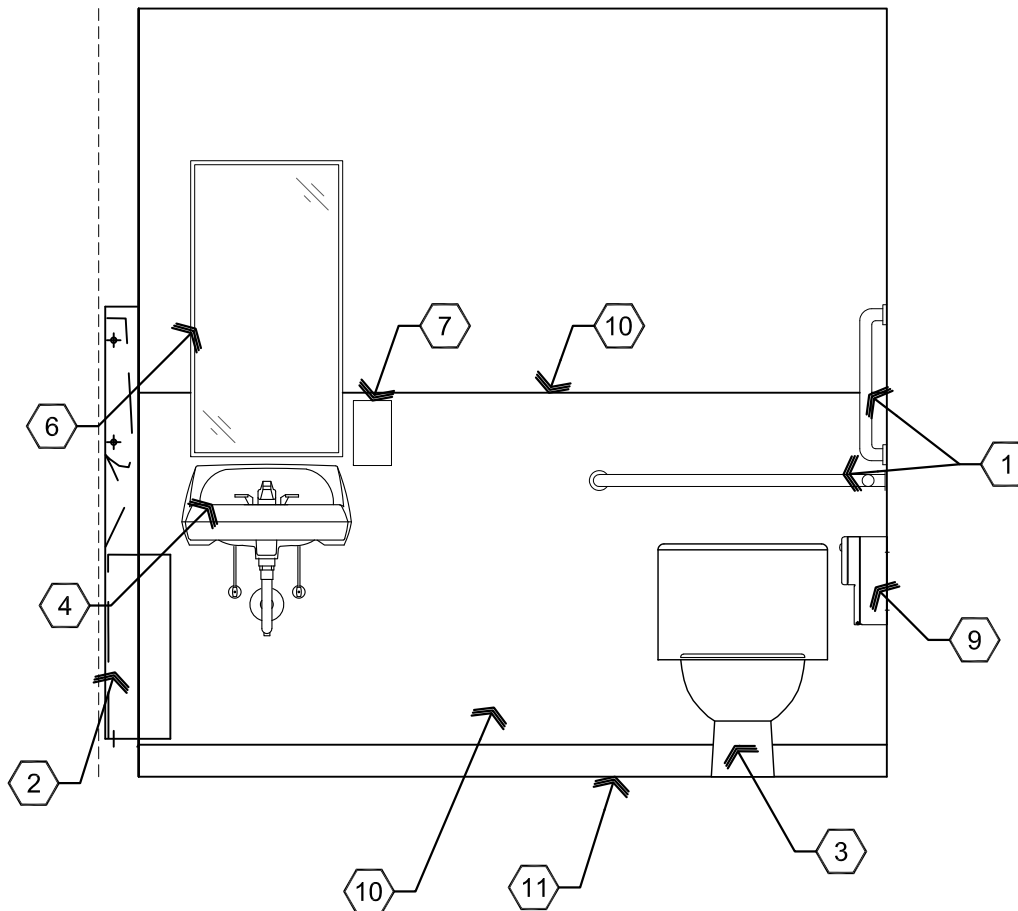
A1 Elevation

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



B1 Elevation

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



C1 Elevation

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

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Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

306-14-024

DRAWING: Enlarged Plan and Interior Elevations

PROJECT:

APN:

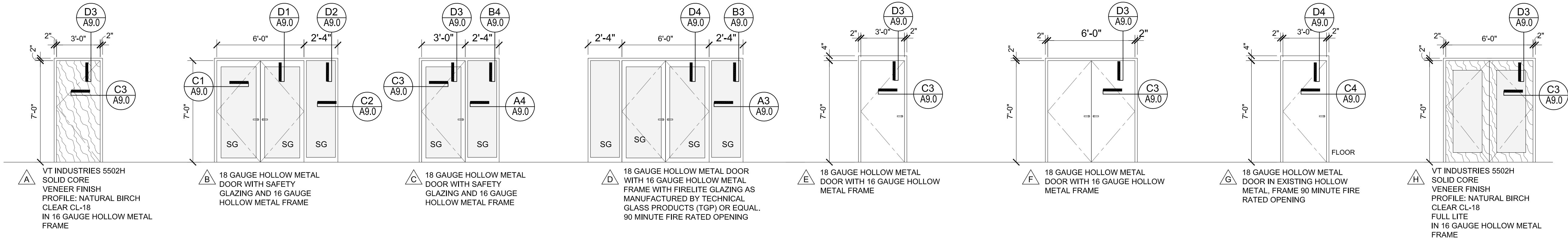
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Materials schedule				
XX- #				
CODE	MATERIAL	LOCATION	MANUFACTURER	SPECIFICATION
FRP-1	FIBERGLASS REINFORCED PLASTIC	NEW RESTROOM		GRAY, 4" TALL WAINSCOT
PL-1	PLASTIC LAMINATE	BREAK ROOM CABINETS	WILSONART	CARBON MESH 4880
PL-2	PLASTIC LAMINATE	BREAK ROOM COUNTERTOPS	WILSONART	DUSK CASCADE 5004
PT-1	PAINT	WALLS	SHERWIN WILLIAMS	
PT-2	PAINT	EXPOSED CEILING	SHERWIN WILLIAMS	
RB-1	RUBBER BASE	CARPETED AREAS	ROPPE	COLOR: CHARCOAL
VPF-1	VINYL PLANK FLOORING	OFFICE AREA	PARADIGM	PAR20101XL LANIKAI

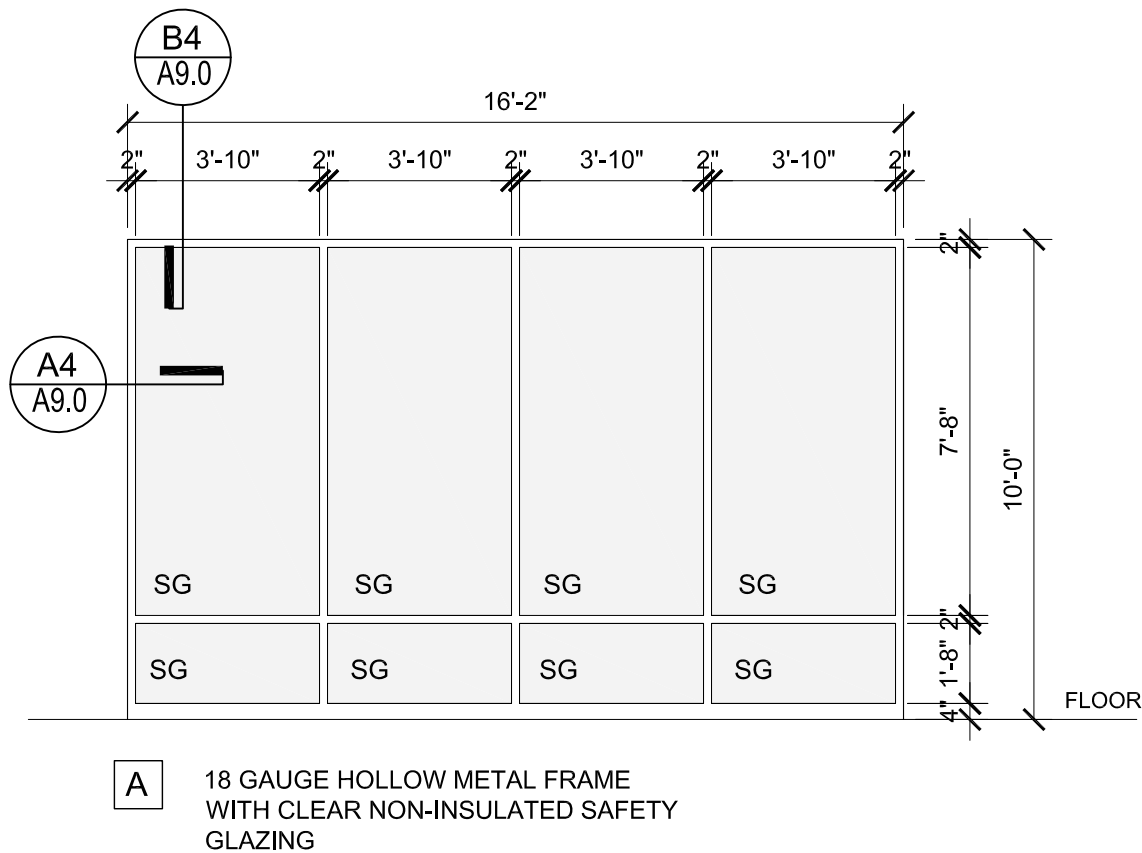
Door Schedule									
NO.	ROOM NAME	SIZE	TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE TYPE	FIRE RATED OPENING
100A	RECEPTION	3'-0"x7'-0"	A	SDWC	STAIN	STEEL	PAINT	1	
101A	STORAGE	3'-0"x7'-0"	A	SDWC	STAIN	STEEL	PAINT	3	
102A	OFFICE	3'-0"x7'-0"	A	SDWC	STAIN	STEEL	PAINT	2	
103A	OFFICE	3'-0"x7'-0"	A	SDWC	STAIN	STEEL	PAINT	2	
104A	OFFICE	3'-0"x7'-0"	A	SDWC	STAIN	STEEL	PAINT	2	
105A	OFFICE	3'-0"x7'-0"	A	SDWC	STAIN	STEEL	PAINT	2	
106A	STORAGE	3'-0"x7'-0"	A	SDWC	STAIN	STEEL	PAINT	4	
109A	CONFERENCE	(2)3'-0"x7'-0"	H	SDWC	STAIN	STEEL	PAINT	7	
110A	ASSEMBLY	(2)3'-0"x7'-0"	B	GLASS	-	STEEL	CLR	11	
113A	BREAK RM	3'-0"x7'-0"	E	HM	PAINT	HM	PAINT	5	
114A	RESTROOM	3'-0"x7'-0"	E	HM	PAINT	HM	PAINT	6	
115A	HEAT TREAT	(2)3'-0"x7'-0"	D	GLASS	-	STEEL	CLR	12	YES
115B	HEAT TREAT	(2)3'-0"x7'-0"	D	GLASS	-	STEEL	CLR	12	YES
116A	INSPECTION	3'-0"x7'-0"	C	GLASS	-	STEEL	CLR	8	
117A	MAINTENANCE	(2)3'-0"x7'-0"	F	HM	PAINT	HM	PAINT	9	
118A	STORAGE	3'-0"x7'-0"	G	HM	PAINT	HM	PAINT	10	YES
118B	STORAGE	3'-0"x7'-0"	G	HM	PAINT	HM	PAINT	10	YES
121A	STORAGE	3'-0"x7'-0"	G	HM	PAINT	HM	PAINT	10	YES

- NOTES:
- ALL EXIT DOORS & HARDWARE SHALL COMPLY WITH THE 2018 I.B.C.
 - DOOR THRESHOLDS SHALL HAVE A MAX HEIGHT OF 1/2" FOR H.C. ACCESSIBILITY. THRESHOLD SHALL HAVE A MAXIMUM RISE OF 1/4" AND 1/2" RISE WHEN BEVELED WITH MAXIMUM 1:2 SLOPE.
 - ALL GLAZING IN DOORS SHALL BE SAFETY GLAZING.
 - ALL INTERIOR DOORS SHALL BE OPERABLE FOR EMERGENCY EXITING PURPOSES WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE NOR EFFORT.
 - ALL GLAZING WITHIN 24" OF OPENINGS SHALL BE SAFETY GLASS.
 - IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
 - DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. HARDWARE REQUIRED FOR DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISH FLOOR.
 - DOOR OPENING FORCE SHALL BE: 5lbf MAX INTERIOR HINGED, SLIDING OR FOLDING DOORS; FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.



C2 Door Types

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



C1 Window Type

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

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ARCHITECTURE & PLANNING

Door & Window Schedule and Types

Materials Schedule

DRAWING:

PROJECT:

APN:

Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

306-14-024

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE April 8th, 2021
JOB NO. 761
SHEET

A7.0

THERMAL VAC
DOOR HARDWARE SCHEDULE

HARDWARE SET #1
DOOR 100A SCW X HMF
EACH DOOR TO HAVE:

QTY	DESCRIPTION	MANUFACTURER
3	HINGES FBB168 4.5 X 4.5 652	STANLEY
1	ENTRY 7KC3 7AB 15D S3 626	BEST
1	BEST PINNED CORE 1C72 626 KEYED TO GM	BEST
1	CLOSER QDC115 689	BEST
1	GASKET SET S88BL 17'	PEMKO
1	WALL STOP WS406/407CCV US32D	IVES

HARDWARE SET #2
DOOR 102A; 103A; 104A; 105A
EACH DOOR TO HAVE:

QTY	DESCRIPTION	MANUFACTURER
3	HINGES FBB179 4.5 X 4.5 652	STANLEY
1	ENTRY 7KC3 7AB 15D S3 626	BEST
1	BEST PINNED CORE 1C72 626 KEYED TO GM	BEST
1	CLOSER QDC115 689	BEST
1	WALL STOP WS406/407CCV US32D	IVES
3	SILENCERS SR64 GRY	IVES

HARDWARE SET #3
DOOR 101A
EACH DOOR TO HAVE:

QTY	DESCRIPTION	MANUFACTURER
3	HINGES FBB179 4.5 X 4.5 652	STANLEY
1	PASSAGE 7KC3 0N 15D S3 626	BEST
1	FLOOR STOP FS436 626	IVES
3	SILENCERS SR64 GRY	IVES

HARDWARE SET #4
DOOR 106A
EACH DOOR TO HAVE:

QTY	DESCRIPTION	MANUFACTURER
3	HINGES FBB179 4.5 X 4.5 652	STANLEY
1	PASSAGE 7KC3 0N 15D S3 626	BEST
1	OH STOP 454H 652	GLYNN-JOHNSON
3	SILENCERS SR64 GRY	IVES

HARDWARE SET #5
DOOR 113A
EACH DOOR TO HAVE:

QTY	DESCRIPTION	MANUFACTURER
3	HINGES FBB168 4.5 X 4.5 652	STANLEY
1	PASSAGE 7KC3 0N 15D S3 626	BEST
1	CLOSER QDC115 689	BEST
1	KICKPLATE 8400 10" X 34" 630	IVES
1	FLOOR STOP FS436 626	IVES
3	SILENCERS SR64 GRY	IVES

HARDWARE SET #6
DOOR 114A
EACH DOOR TO HAVE:

QTY	DESCRIPTION	MANUFACTURER
3	HINGES FBB179 4.5 X 4.5 652	STANLEY
1	PRIVACY 7KC3 0L 15D S3 626	BEST
1	CLOSER QDC111 689	BEST
1	KICKPLATE 8400 10" X 34" B4E CSK 630	IVES
1	WALL STOP WS406/407CCV US32D	IVES
3	GASKET S88BL 17'	PEMKO

HARDWARE SET #7
DOOR 109A PAIR SCW X HMF
EACH DOOR TO HAVE:

QTY	DESCRIPTION	MANUFACTURER
6	HINGES FBB179 4.5 X 4.5 652	STANLEY
1	ENTRY 7KC3 7AB 15D S3 626	BEST
1	BEST PINNED CORE 1C72 626 KEYED TO GM	BEST
1	AUTO FLUSHBOLTS FB61P US32D	IVES
1	OH STOP 454S 652	GLYNN JOHNSON
3	SILENCERS SR64 GRY	IVES

HARDWARE SET #8
DOOR 116A
EACH DOOR TO HAVE:

QTY	DESCRIPTION	MANUFACTURER
3	HINGES FBB179 4.5 X 4.5 652	STANLEY
1	ENTRY 7KC3 7AB 15D S3 626	BEST
1	BEST PINNED CORE 1C72 626 KEYED TO GM	BEST
1	CLOSER QDC111 689	BEST
1	WALL STOP WS406/407CCV US32D	IVES
3	SILENCERS SR64 GRY	IVES

HARDWARE SET #9
DOOR 117A HMD X HMF
EACH DOOR TO HAVE:

QTY	DESCRIPTION	MANUFACTURER
6	HINGES FBB168 4.5 X 4.5 652	STANLEY
1	ENTRY 7KC3 7AB 15D S3 626	BEST
1	BEST PINNED CORE 1C72 626 KEYED TO GM	BEST
2	CLOSER QDC118 689	BEST
1	FLUSH BOLT FB458-12 US32D	IVES
6	SILENCERS SR64 GRY	IVES
	*ASTRAGAL BY HM DOOR SUPPLIER	

HARDWARE SET #10
DOOR 118A; 118B; 121A HMD X HMF
EACH DOOR TO HAVE:

QTY	DESCRIPTION	MANUFACTURER
3	HINGES FBB168 4.5 X 4.5 652	STANLEY
1	ENTRY 7KC3 7AB 15D S3 626	BEST
1	BEST PINNED CORE 1C72 626 KEYED TO GM	BEST
1	CLOSER QDC111 689	BEST
1	GASKET SET S88BL 17'	PEMKO
1	WALL STOP WS406/407CCV US32D	IVES
1	KICKPLATE 8400 10" X 34" B4E CSK 630	IVES

HARDWARE SET #11
DOOR 110A PAIR HMD X HMF
EACH DOOR TO HAVE:

QTY	DESCRIPTION	MANUFACTURER
6	HINGES FBB168 4.5 X 4.5 652	STANLEY
2	EXIT 99 X 996L X US26D 36"	VONDUPRIN
1	KR MULLION KR4954 SP28 84"	VONDUPRIN
2	RIM CYL 12-E72 RP3 626	BEST
1	MORTISE CYL 1E74-C4 RP 626	BEST
3	BEST PINNED CORE 1C72 626 KEYED TO GM	BEST
2	CLOSER QDC118 689	BEST
1	GASKET SET S88BL 20'	PEMKO
1	MULLION SEAL 5110-120B	PEMKO

HARDWARE SET #12
DOOR 115A; 115B PAIRS HMD X HMF
EACH DOOR TO HAVE:

QTY	DESCRIPTION	MANUFACTURER
6	HINGES FBB168 4.5 X 4.5 652	STANLEY
2	FIRE RATED EXIT 99 -F X 996L X US26D 36"	VONDUPRIN
1	KR MULLION FIRE KR9954 SP28 84"	VONDUPRIN
2	RIM CYL 12-E72 RP3 626	BEST
1	MORTISE CYL 1E74-C4 RP 626	BEST
3	BEST PINNED CORE 1C72 626 KEYED TO GM	BEST
2	CLOSER QDC119 689	BEST
1	GASKET SET S88BL 20'	PEMKO
1	MULLION SEAL 5110-120B	PEMKO
2	SWEEPS 18041CNB 36"	PEMKO

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ARCHITECTURE & PLANNING

DRAWING: Hardware Schedule

PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN: 306-14-024

DRAWN BY
L.O.

CHECKED BY
W.A.K.

DATE
April 8th, 2021

JOB NO.
761

SHEET

A7.1

Room Finish Schedule

RM #	ROOM NAME	FLOOR		WALLS				CEILING	
		MATERIAL	BASE	NORTH	SOUTH	EAST	WEST	HEIGHT	MATERIAL
100	RECEPTION	VINYL PLANK	RUBBER BASE RB-1	GPDW PAINT PT-1	EXST WALL NEW PAINT PT-1	EXST WALL NEW PAINT PT-1	GPDW PAINT PT-1	VARIES	OPEN TO STRUCTURE PT-2
101	STORAGE	VINYL PLANK	RUBBER BASE RB-1	GPDW PAINT PT-1	EXST WALL NEW PAINT PT-1	GPDW PAINT PT-1	EXST WALL NEW PAINT PT-1	VARIES	OPEN TO STRUCTURE PT-2
102	OFFICE	VINYL PLANK	RUBBER BASE RB-1	GPDW PAINT PT-1	GPDW PAINT PT-1	GPDW PAINT PT-1	EXST WALL NEW PAINT PT-1	VARIES	OPEN TO STRUCTURE PT-2
103	OFFICE	VINYL PLANK	RUBBER BASE RB-1	GPDW PAINT PT-1	GPDW PAINT PT-1	GPDW PAINT PT-1	EXST WALL NEW PAINT PT-1	VARIES	OPEN TO STRUCTURE PT-2
104	OFFICE	VINYL PLANK	RUBBER BASE RB-1	GPDW PAINT PT-1	GPDW PAINT PT-1	GPDW PAINT PT-1	EXST WALL NEW PAINT PT-1	VARIES	OPEN TO STRUCTURE PT-2
105	OFFICE	VINYL PLANK	RUBBER BASE RB-1	GPDW PAINT PT-1	GPDW PAINT PT-1	GPDW PAINT PT-1	EXST WALL NEW PAINT PT-1	VARIES	OPEN TO STRUCTURE PT-2
106	STORAGE	CONCRETE	RUBBER BASE RB-1	EXST WALL NEW PAINT PT-1	GPDW PAINT PT-1	EXST WALL NEW PAINT PT-1	EXST WALL NEW PAINT PT-1	VARIES	OPEN TO STRUCTURE PT-2
107	RESTROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
108	OPEN OFFICE	VINYL PLANK	RUBBER BASE RB-1	GPDW PAINT PT-1	GPDW PAINT PT-1	EXST WALL NEW PAINT PT-1	GPDW PAINT PT-1	VARIES	OPEN TO STRUCTURE PT-2
109	CONFERENCE	VINYL PLANK	RUBBER BASE RB-1	GPDW PAINT PT-1	EXST WALL NEW PAINT PT-1	EXST WALL NEW PAINT PT-1	GPDW PAINT PT-1	VARIES	OPEN TO STRUCTURE PT-2
110	ASSEMBLY	CONCRETE	RUBBER BASE RB-1 VERIFY EXISTING	EXST WALL NEW PAINT PT-1	EXST WALL NEW PAINT PT-1	GPDW PAINT PT-1	EXST WALL NEW PAINT PT-1	EXISTING	EXISTING
111	RESTROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
112	RESTROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
113	BREAKROOM	CONCRETE	RUBBER BASE RB-1	EXST WALL NEW PAINT PT-1	GPDW PAINT PT-1	GPDW PAINT PT-1	GPDW PAINT PT-1		
114	RESTROOM	CONCRETE	RUBBER BASE RB-1	GPDW PAINT PT-1, FRP-1	GPDW PAINT PT-1, FRP-1	GPDW PAINT PT-1, FRP-1	GPDW PAINT PT-1, FRP-1	8'-0"	GPDW PT-3
115	HEAT TREATING	CONCRETE	RUBBER BASE RB-1 VERIFY EXISTING	GPDW PAINT PT-1 EXST WALL VERIFY	GPDW PAINT PT-1 EXST WALL VERIFY	EXST WALL VERIFY	GPDW PAINT PT-1	EXISTING	EXISTING
116	INSPECTION	CONCRETE	RUBBER BASE RB-1 VERIFY EXISTING	GPDW PAINT PT-1	EXST WALL VERIFY	GPDW PAINT PT-1 EXST WALL VERIFY	GPDW PAINT PT-1 EXST WALL VERIFY	EXISTING	EXISTING
117	MAINTENANCE	CONCRETE	RUBBER BASE RB-1 VERIFY EXISTING	EXST WALL VERIFY	EXST WALL VERIFY	EXST WALL VERIFY	GPDW PAINT PT-1	EXISTING	EXISTING
118	STORAGE	CONCRETE	RUBBER BASE RB-1 VERIFY EXISTING	EXST WALL VERIFY	EXST WALL VERIFY	GPDW PAINT PT-1	EXST WALL VERIFY	EXISTING	EXISTING
119	CORRIDOR	CONCRETE	RUBBER BASE RB-1	-	GPDW PAINT PT-1	GPDW PAINT PT-1	GPDW PAINT PT-1	VARIES	OPEN TO STRUCTURE PT-2
120	STORAGE	CONCRETE	RUBBER BASE RB-1 VERIFY EXISTING	GPDW PAINT PT-1 EXST WALL VERIFY	EXST WALL VERIFY	EXST WALL VERIFY	EXST WALL VERIFY	EXISTING	EXISTING
121	STORAGE	CONCRETE	RUBBER BASE RB-1 VERIFY EXISTING	EXST WALL VERIFY	GPDW PAINT PT-1	EXST WALL VERIFY	GPDW PAINT PT-1	EXISTING	EXISTING
122	STORAGE	CONCRETE	RUBBER BASE RB-1 VERIFY EXISTING	EXST WALL VERIFY	EXST WALL VERIFY	GPDW PAINT PT-1	EXST WALL VERIFY	EXISTING	EXISTING
123	RESTROOM	CONCRETE	RUBBER BASE RB-1 VERIFY EXISTING	EXST WALL VERIFY	EXST WALL VERIFY	GPDW PAINT PT-1 EXST WALL VERIFY	EXST WALL VERIFY	EXISTING	EXISTING
124	RESTROOM	CONCRETE	RUBBER BASE RB-1 VERIFY EXISTING	GPDW PAINT PT-1	EXST WALL VERIFY	EXST WALL VERIFY	EXST WALL VERIFY	EXISTING	EXISTING
125	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
126	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING

Legend

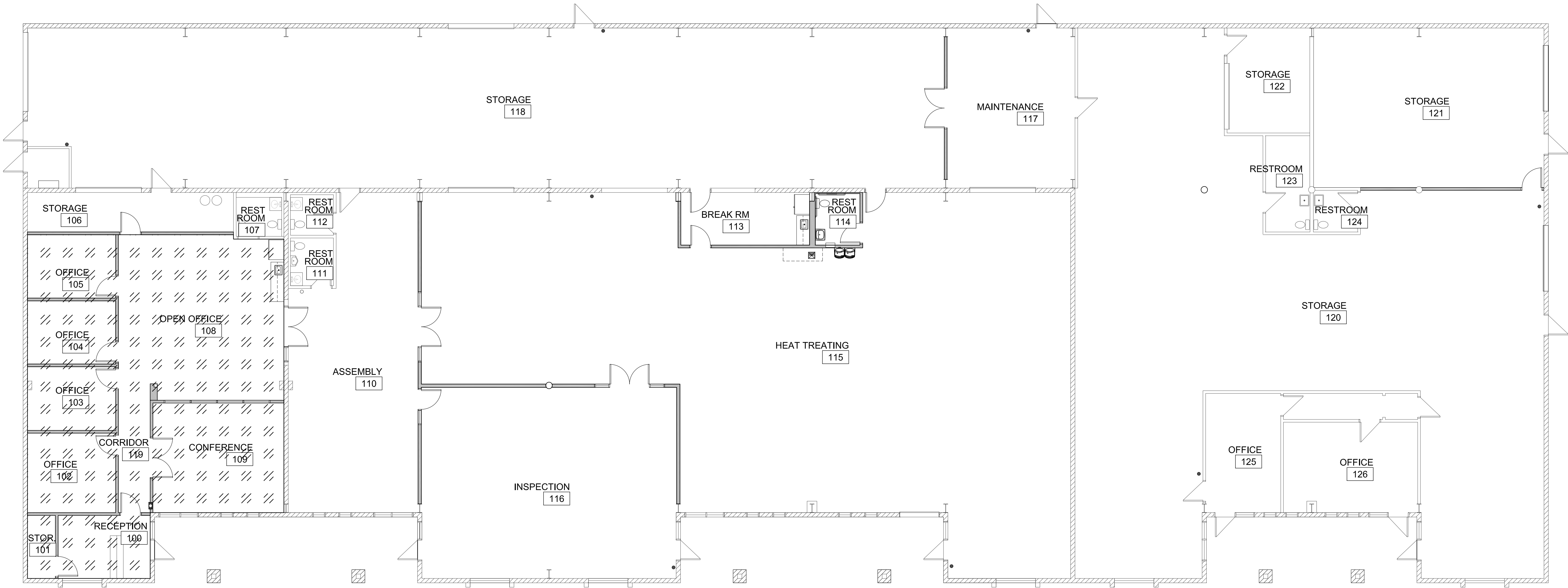
VINYL PLANK FLOORING
VFP-1
NEW RUBBER BASE ALL WALLS
NEW PAINT ALL WALLS

EXISTING TO REMAIN
CONCRETE, TILE OR
CARPET



NOTE:

- ALL NEW WALLS TO RECEIVE NEW PAINT AND NEW RUBBER BASE.
- EXISTING WALLS IN MANUFACTURING AREA - NO NEW BASE AND NO NEW PAINT, FIELD VERIFY WITH OWNER.
- EXISTING WALLS IN OFFICE AREA TO RECEIVE NEW PAINT AND NEW RUBBER BASE.



Room Finish Plan

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



REVISIONS

BY

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ARCHITECTURE & PLANNING

DRAWING: Room Finish Plan

PROJECT:

Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN:

306-14-024

DRAWN BY
L.O.

CHECKED BY
W.A.K.

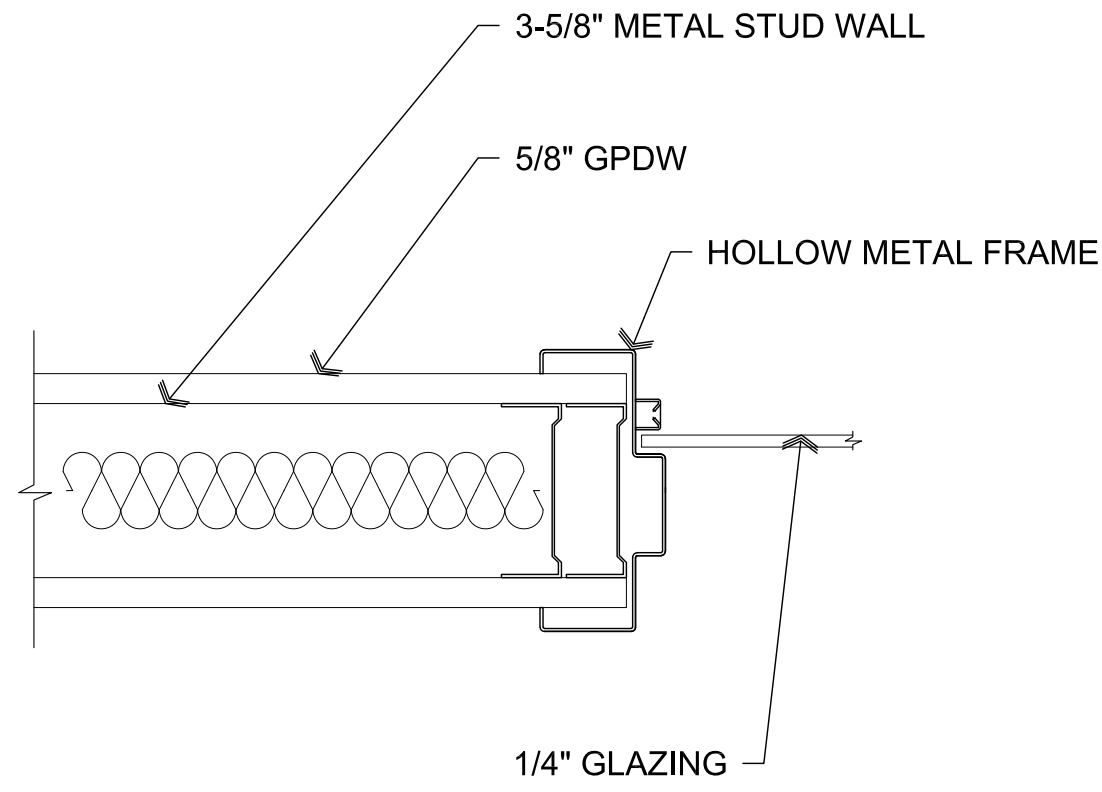
DATE
April 8th, 2021

JOB NO.
761

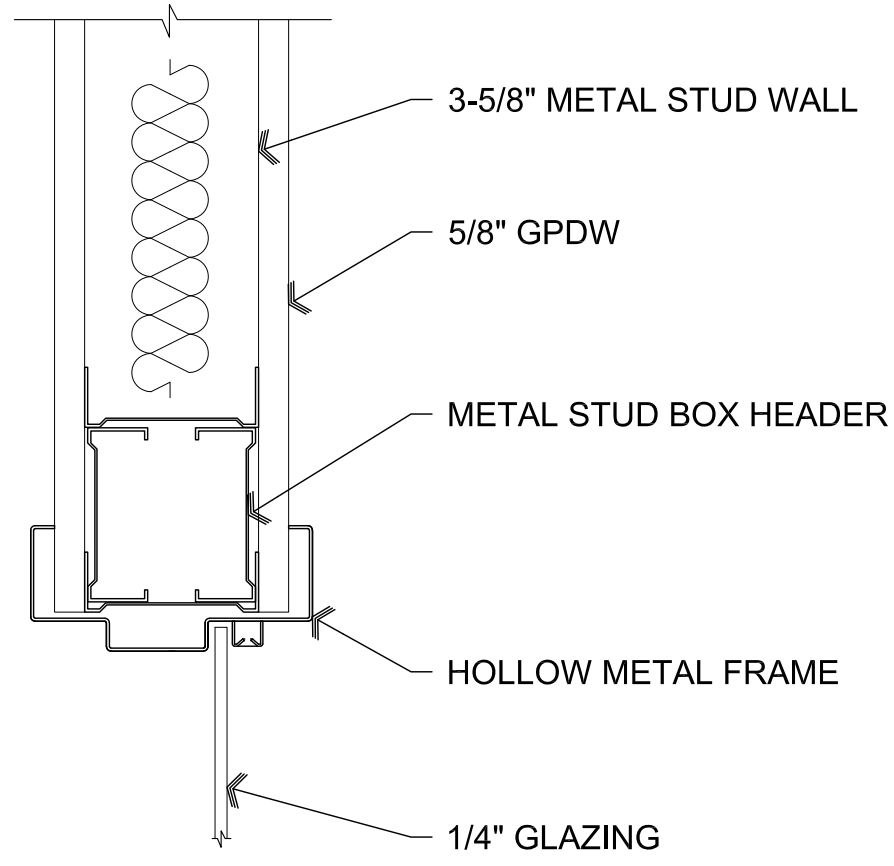
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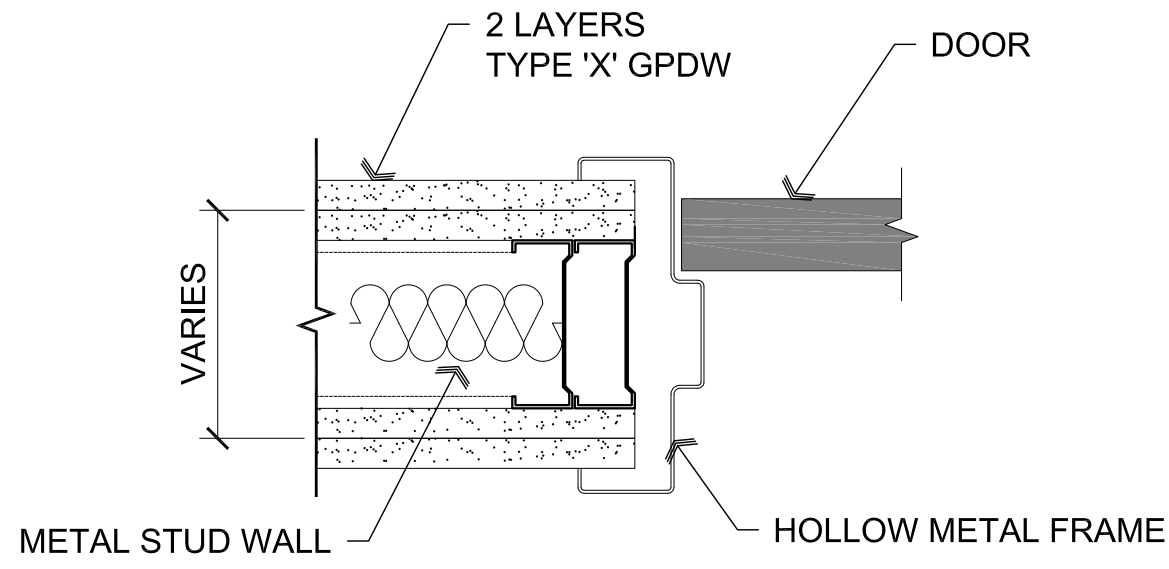
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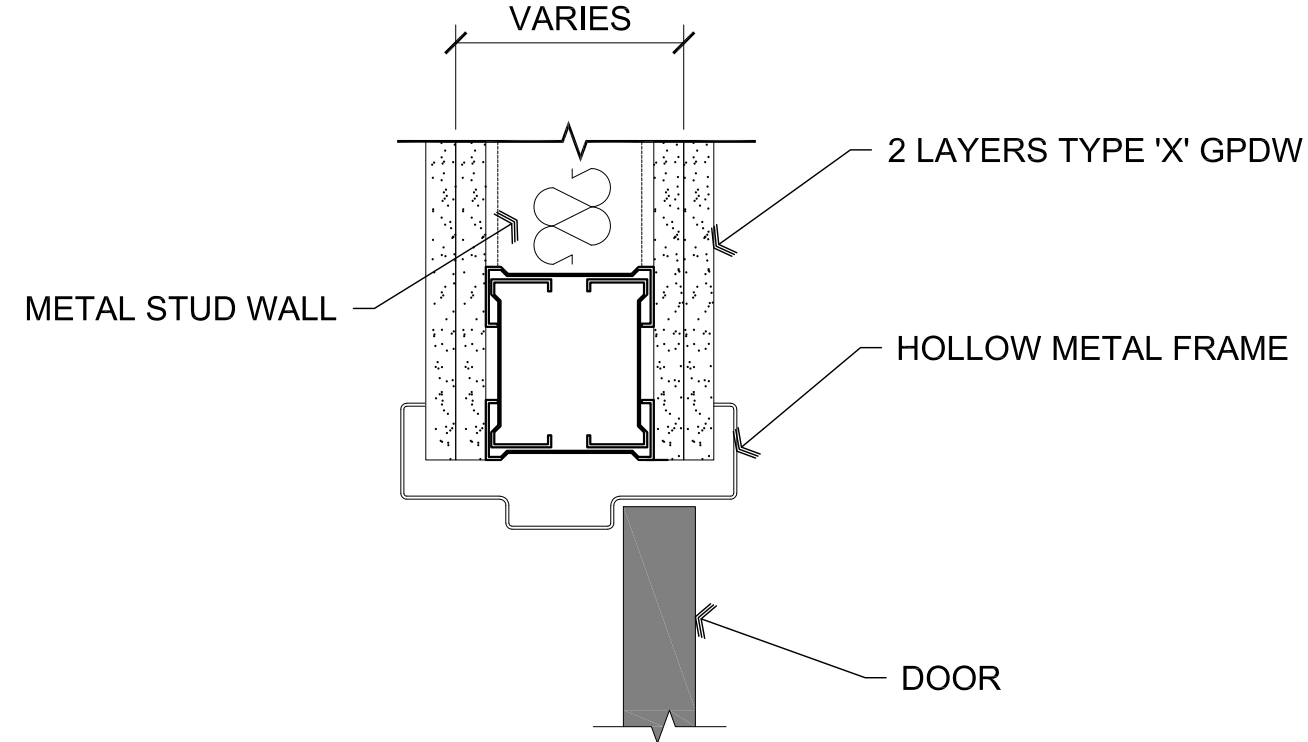
A4 HM Window Jamb
SCALE: 3" = 1'-0"



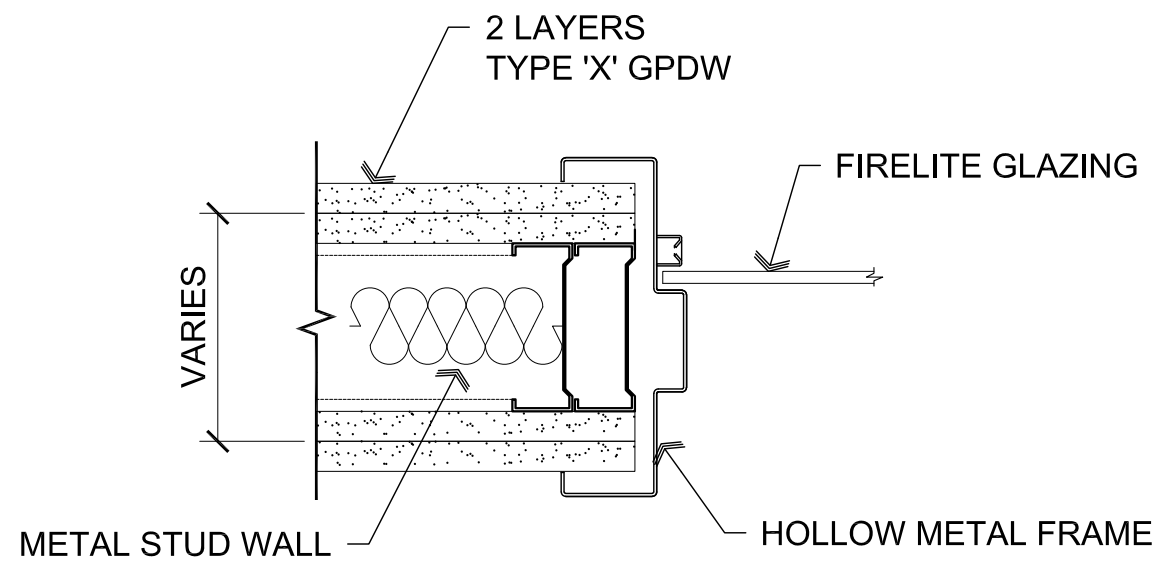
B4 HM Window Head
SCALE: 3" = 1'-0"



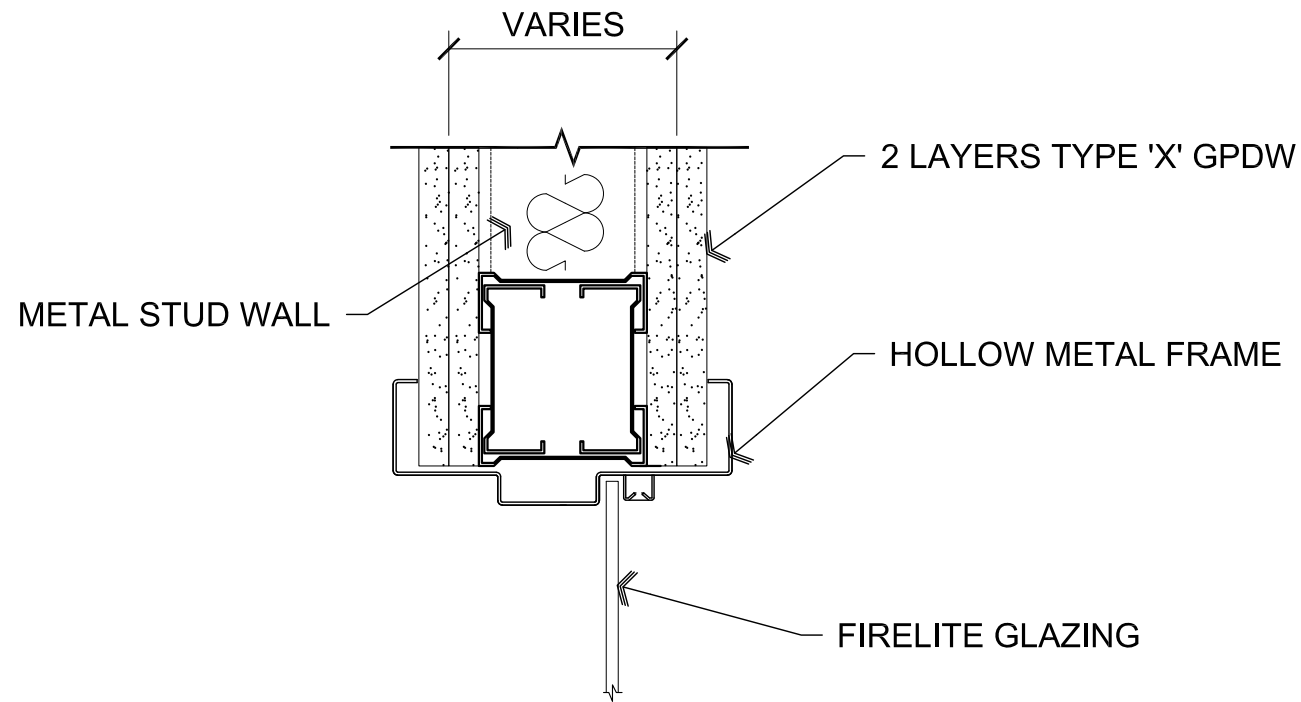
C4 HM Door Jamb In Firewall
SCALE: 3" = 1'-0"



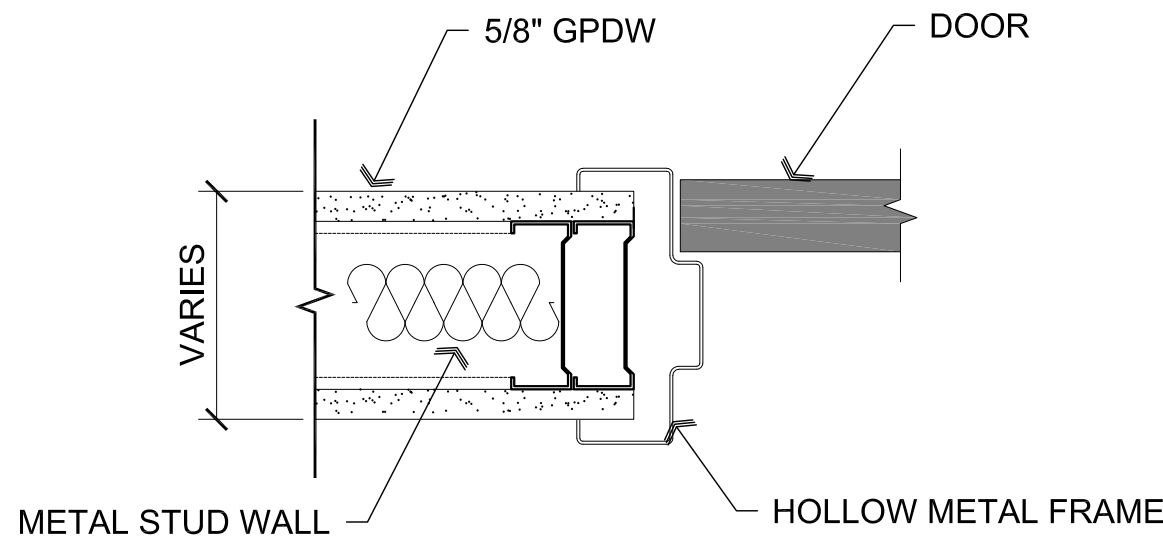
D4 HM Door Head In Firewall
SCALE: 3" = 1'-0"



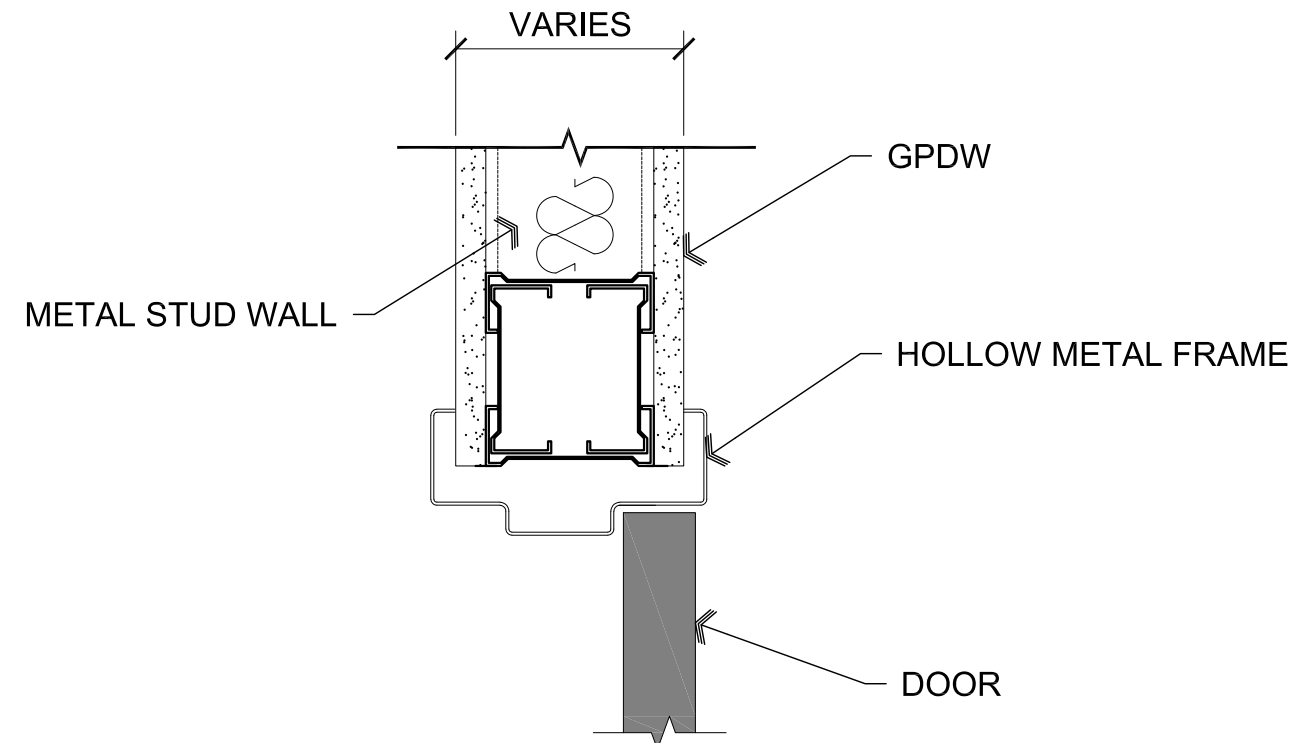
A3 HM Window Jamb In Firewall
SCALE: 3" = 1'-0"



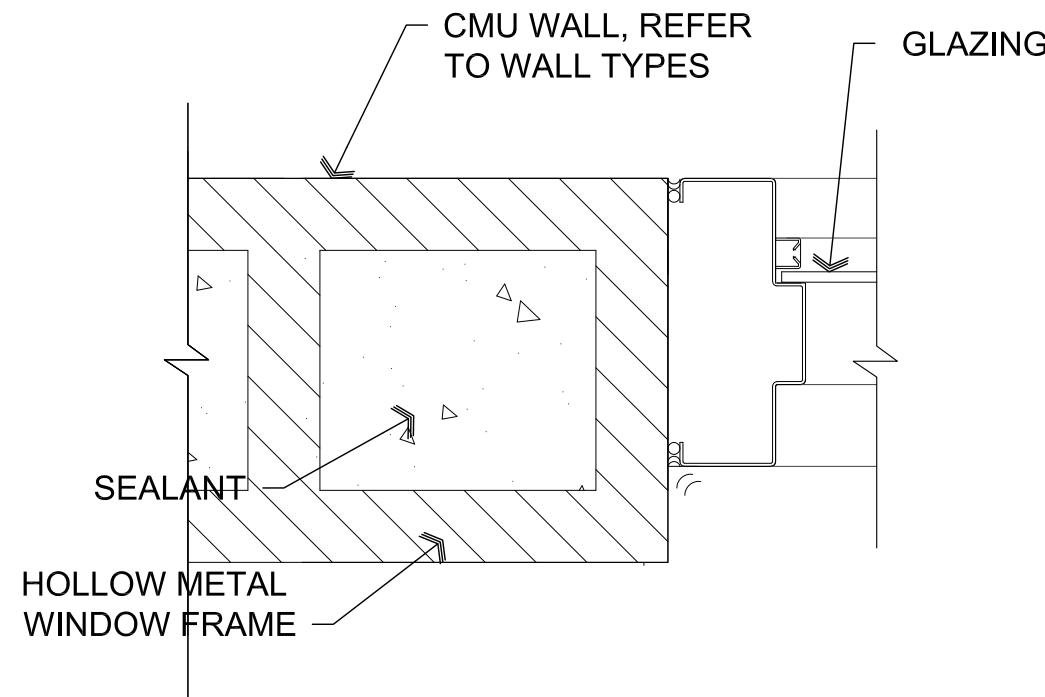
B3 HM Window Head In Firewall
SCALE: 3" = 1'-0"



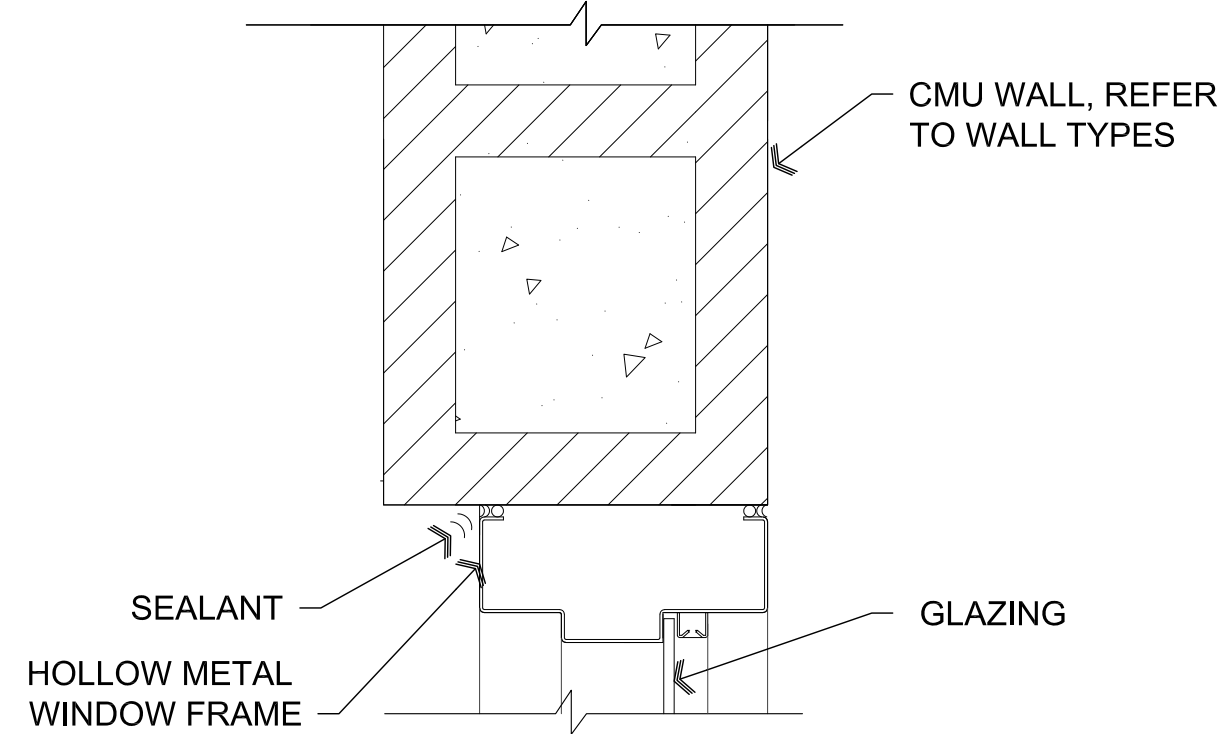
C3 HM Door Jamb
SCALE: 3" = 1'-0"



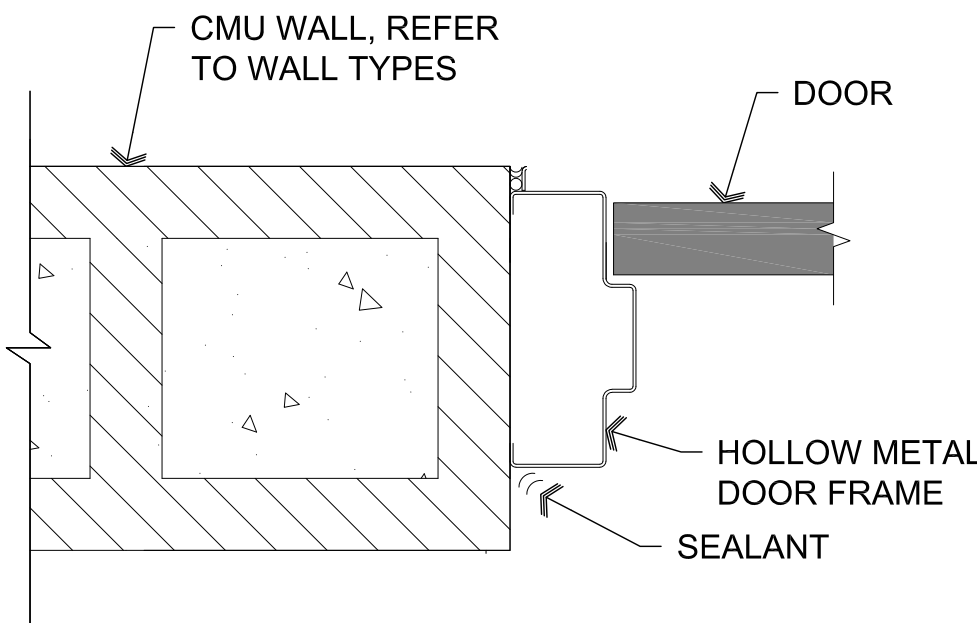
D3 HM Door Head
SCALE: 3" = 1'-0"



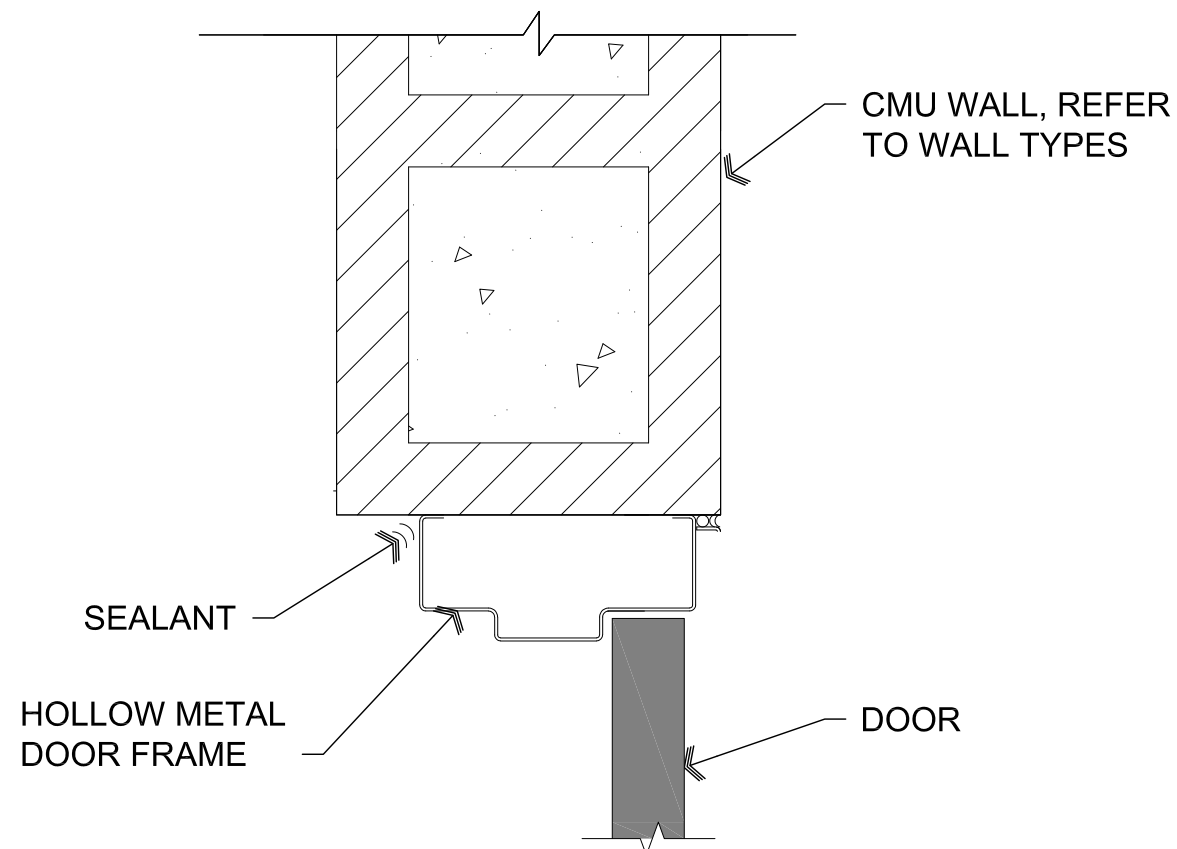
C2 HM Window Jamb
SCALE: 3" = 1'-0"



D2 HM Window Head
SCALE: 3" = 1'-0"



C1 HM Door Jamb
SCALE: 3" = 1'-0"



D1 HM Door Head
SCALE: 3" = 1'-0"

REVISIONS	BY

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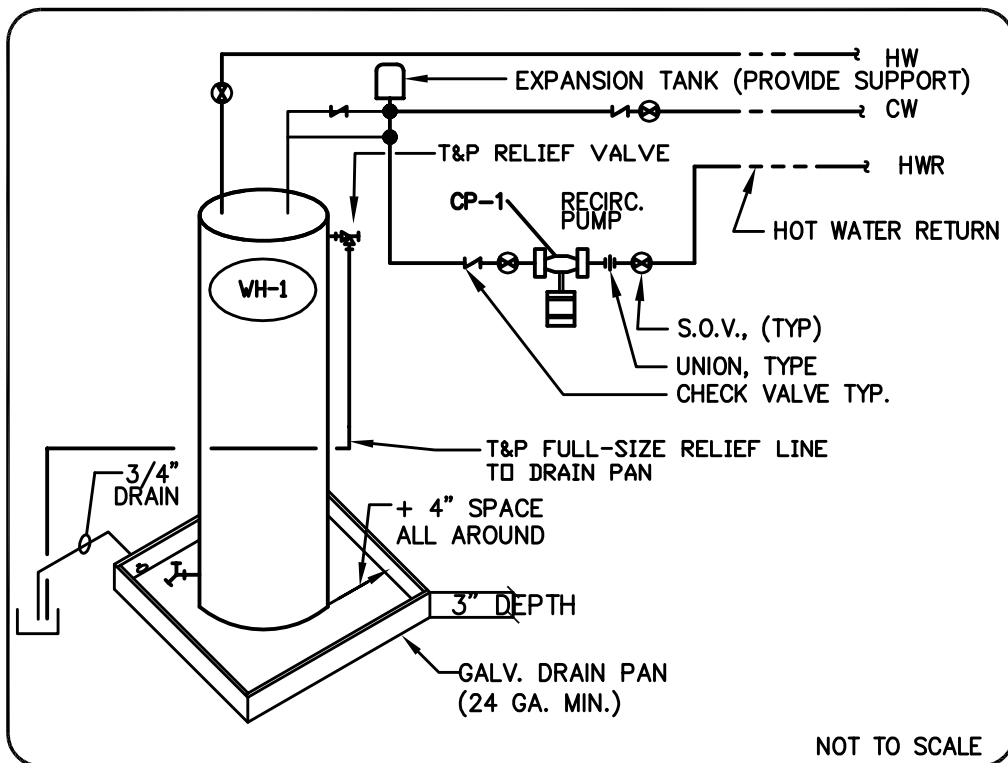


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ARCHITECTURE & PLANNING

DRAWING: Details
PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323
APN: 306-14-024

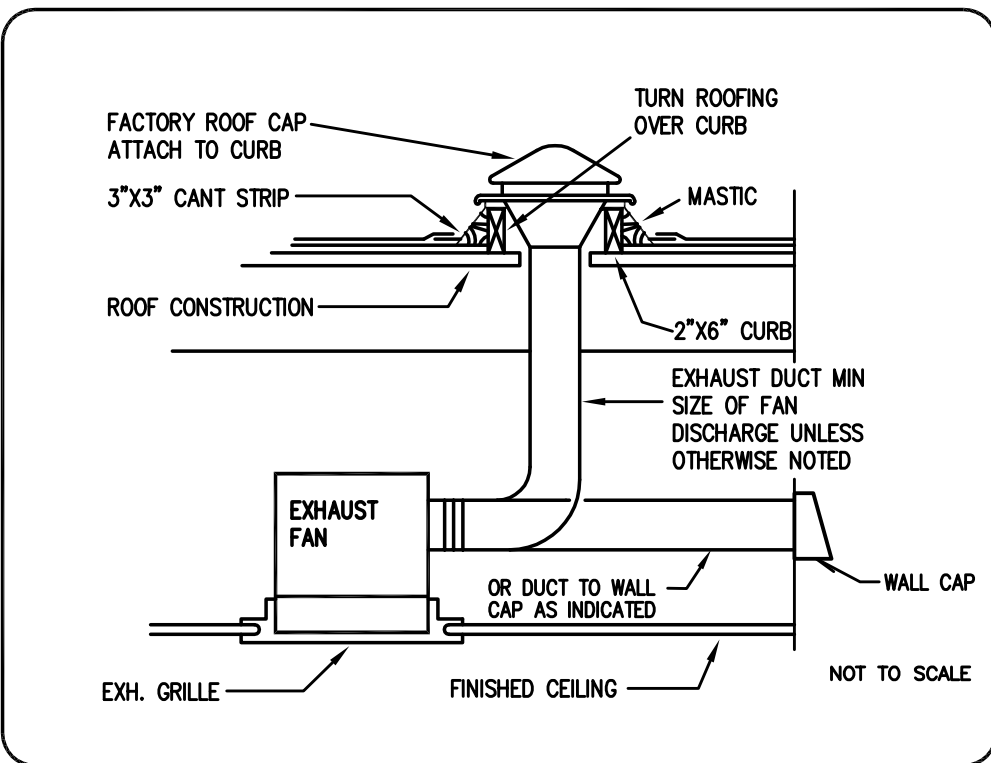
DRAWN BY L.O.
CHECKED BY W.A.K.
DATE April 8th, 2021
JOB NO. 761
SHEET

A9.0



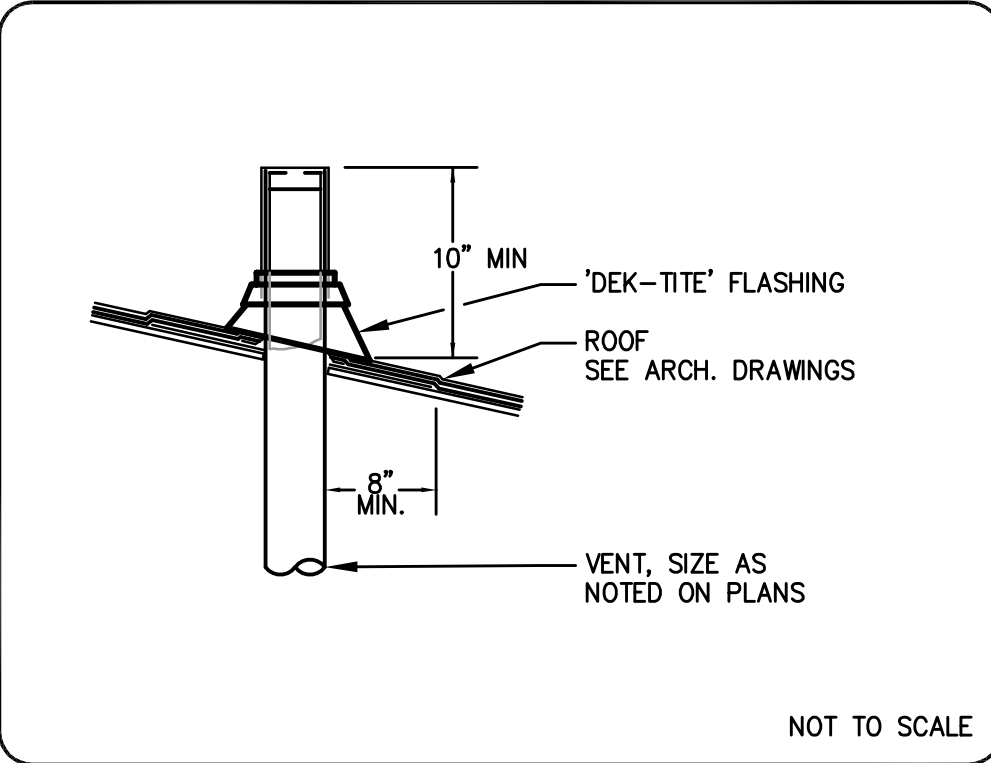
WATER HEATER (ELECTRIC)

1
MP-1



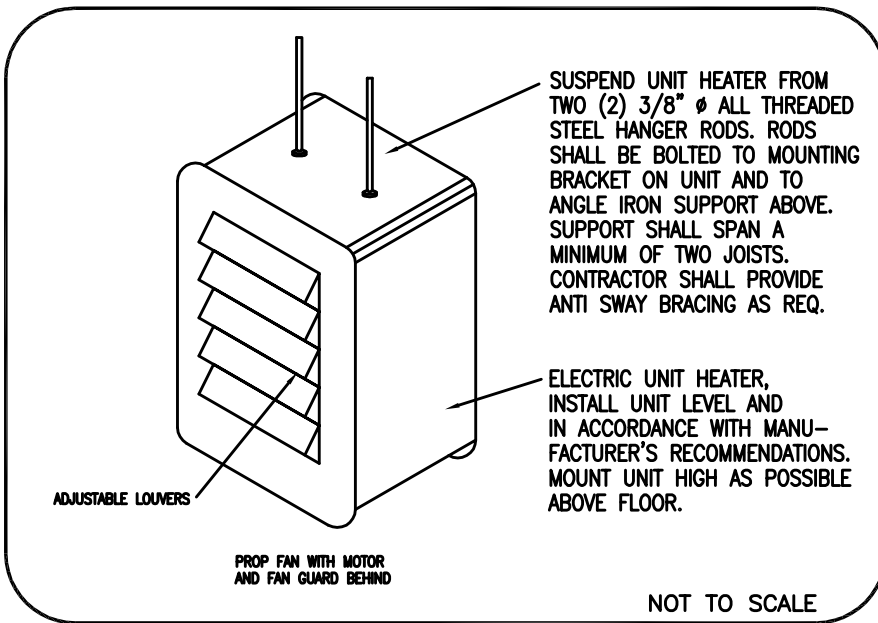
CEILING EXHAUST FAN

2
MP-1



VENT THRU ROOF DETAIL

3
MP-1



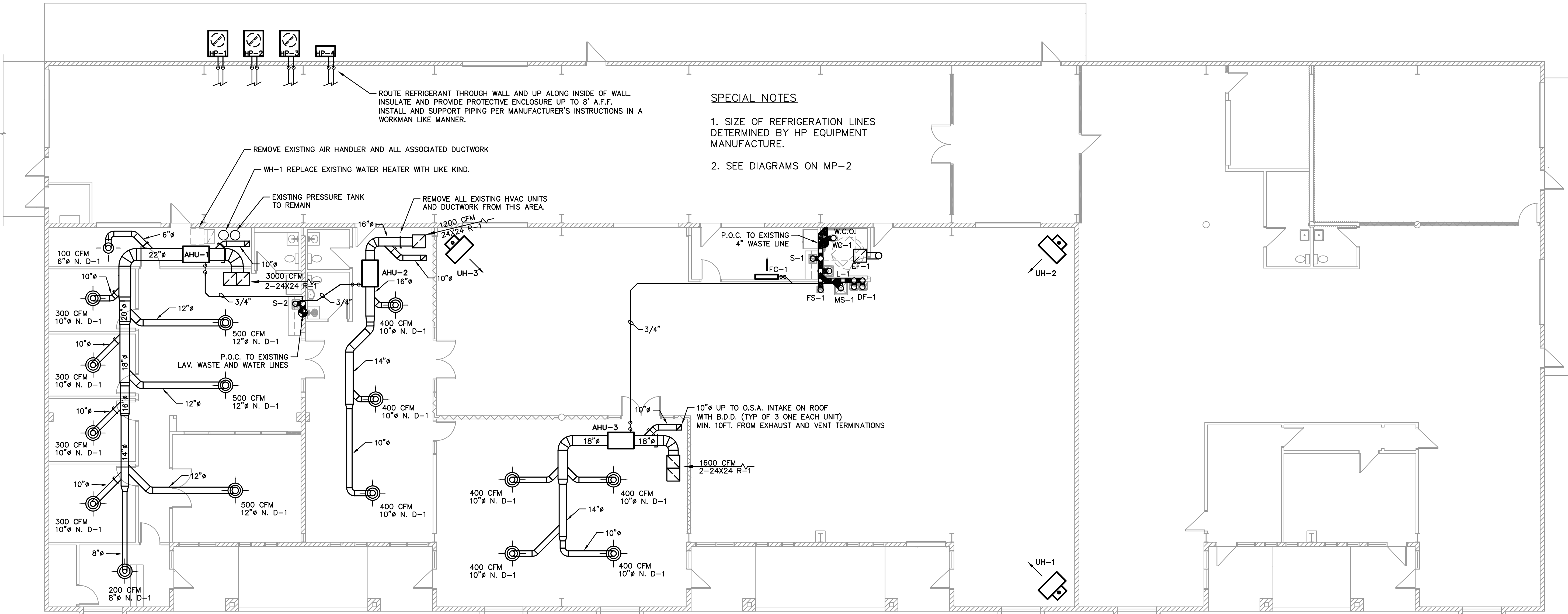
ELECTRIC HEATER DETAIL

4
MP-1

OUTSIDE AIR SCHEDULE I.M.C. 2018									
UNIT	AREA	AREA SQ. FT.	1000 SF./ PERSON	# OF PEOPLE	CFM PER PERSON	OSA CFM	BREATH ZONE	BREATH ZONE CFM	TOTAL OSA CFM
AHU-1	OFFICE	812	-	5	5	25	.06	49	74
AHU-2	OPEN OFFICE	625	-	5	5	25	.06	38	63
AHU-3	CONFERENCE	340	-	50	5	85	.06	20	105

- MECHANICAL GENERAL NOTES
- Furnish all labor, materials, tools, equipment, fees permits, certificate of inspection, etc. necessary or reasonable required for the complete installation of all air-conditioning work. The work shall be in strict accordance with ASHRAE Guidelines, and all local and state codes, ordinances and regulations.
 - Mechanical equipment locations to comply with all applicable codes.
 - Coordinate exact diffuser and grille locations with other trades.
 - Not used.
 - Provide 1 1/2" duct liner in all supply and return ducts within 20 ft. of air handler/ac unit duct connections and where shown on drawings, increase sheet metal dimensions accordingly. All supply and return ducts to be sheet metal with 1 1/2" exterior insulation with foil face, except for lined duct. Supply and return ducts exposed to weather shall be lined with 2" duct liner.
 - Flex ducts to be thermaflex type GKM or approved equal, 8 ft. max. length.
 - Outside air intakes shall be minimum 10 feet from any exhaust or plumbing.
 - Extend 3/4" condensate drain as shown on drawing, or to nearest plumbing tail piece. Interior condensate drains to be sched. 40 PVC. Outside condensate drains to be type "M" copper.
 - Set A/C unit OSA to CFM as specified on drawing.
 - Test & balance system. May be done by installation contractor. (Local governing authorities may also require a certified report). Submit certified report to engineer with 10 days of completing test and balance.
 - New ductwork to be constructed and installed in accordance with ASHRAE guide and SMACNA standards.
 - Mechanical contractor to verify that all ductwork will fit where indicated w/o interference with structural members or other materials or equipment.
 - Contractor and architect to verify T-stat locations with owner prior to installing thermostats. Contractor shall provide all necessary wiring and conduit.
 - Coordinate all mechanical work, including equipment, ductwork and piping w/ architect and other trades prior to commencing work.
 - The mechanical contractor shall coordinate with the electrical contractor regarding space availability for recessed lighting and cutwork to avoid relocation of ductwork at the mechanical contractor's expense.
 - Thermostats shall be seven day programmable with automatic change-over locking cover and fan on continuously (No Exceptions). Honeywell or equal T-7300 w/commercial subbase.
 - Ducts shall conform to dimensions on the drawing unless location of structural members prohibits. In case of a change in dimensions, cross sectional areas shall be maintained.
 - Ducts shall be substantially supported with hangers to the structure, placing supports not over eight feet apart along the length of the duct. Sheet metal shall be in accordance with the following schedule:

Up to 12" width	26 Gauge Steel
13" to 30" width	24 Gauge Steel
31" to 60" width	22 Gauge Steel
 - Ductwork shall be installed per the latest SMACNA manual for low pressure design.
 - Ductwork to conform to current applicable codes.
 - Insulation, material, coverings, adhesives, vapor-barriers and tapes shall conform to NFPA 90A. Flame spread classification not to exceed 25 and smoke development not to exceed 50.
 - The exhaust ducts must terminate 10 feet horizontally from or three feet above all air intakes.
 - Seal all joints in ductwork with duct sealer.
 - Provide radius elbows, turning vanes, and splitter dampers in branches and extractors where applicable.
 - Duct sizes shown are "Clear Inside" dimensions.
 - Mechanical contractor to verify and coordinate available voltage, phase and MCA loads with the electrical contractor prior to ordering electrical and mechanical equipment.
 - Mechanical contractor to verify that all specified equipment is compatible with ductwork, structure and other physical factors before ordering.
 - Locate all diffusers, grilles and registers according to architectural reflected ceiling plan.
 - Any problems that develop with the mechanical systems as a result of "Value Engineering" or other changes by Owner/Contractor (without approval of Engineer) shall be the responsibility of Owner/Contractor.
 - Systems shall not be used for temporary heating or cooling during construction.
 - Provide ceiling access panels for all volume dampers and all valves above GYP. board ceilings.
 - Submittal within 30 days after award of contract for this work. Seven copies of product brochures, one complete binder for HVAC items, indexed and separated by dividers, one binder for all plumbing items.
 - All mechanical equipment and materials shall be installed as per manufacturer's written instructions.



- SPECIAL NOTES
- SIZE OF REFRIGERATION LINES DETERMINED BY HP EQUIPMENT MANUFACTURE.
 - SEE DIAGRAMS ON MP-2

HVAC & PLUMBING FLOOR PLAN

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

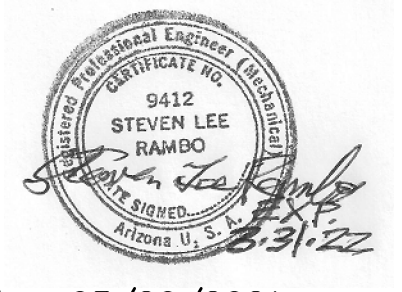


DESIGN ENGINEERING OPERATIONS

2929 E. MAIN ST. #426 MESA, AZ 85213 928-713-4953 WALRONE4@GMAIL.COM

REVISIONS	BY

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03/20/2021

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ARCHITECTURE & PLANNING

DRAWING: MECHANICAL AND PLUMBING

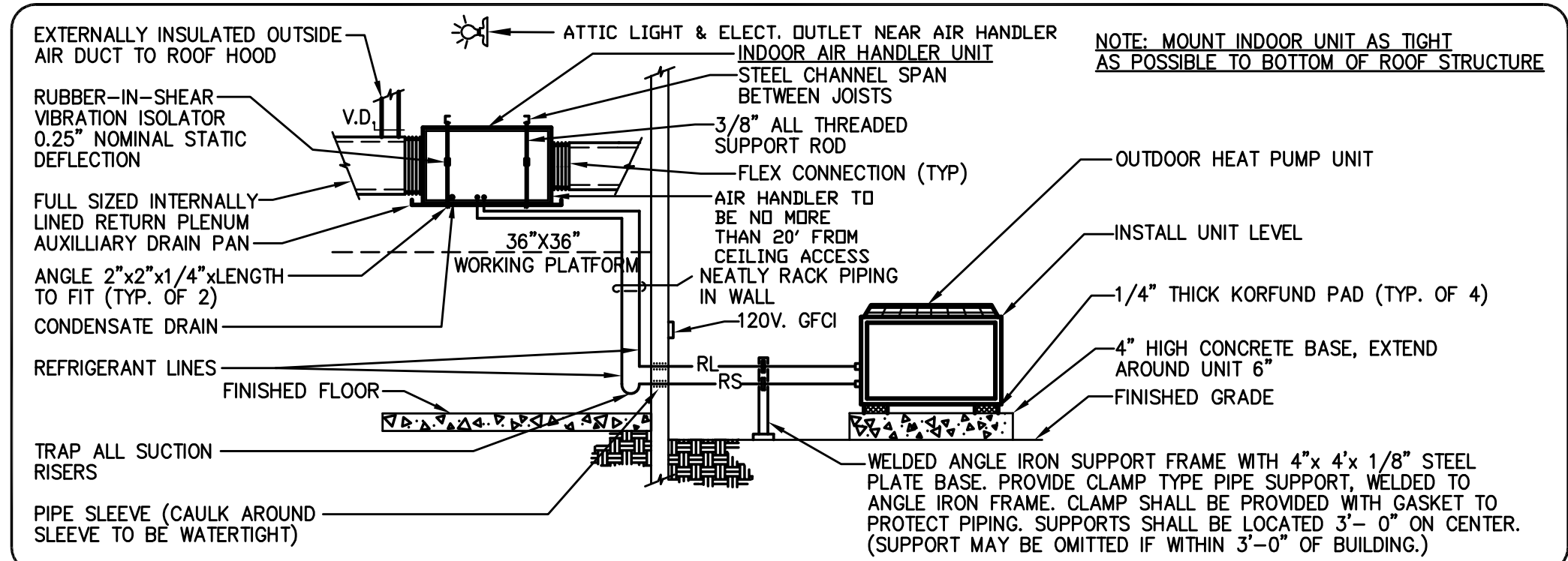
PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN: 306-14-024

DRAWN BY
CHECKED BY
DATE Mar 20th, 2021
JOB NO. 761
SHEET

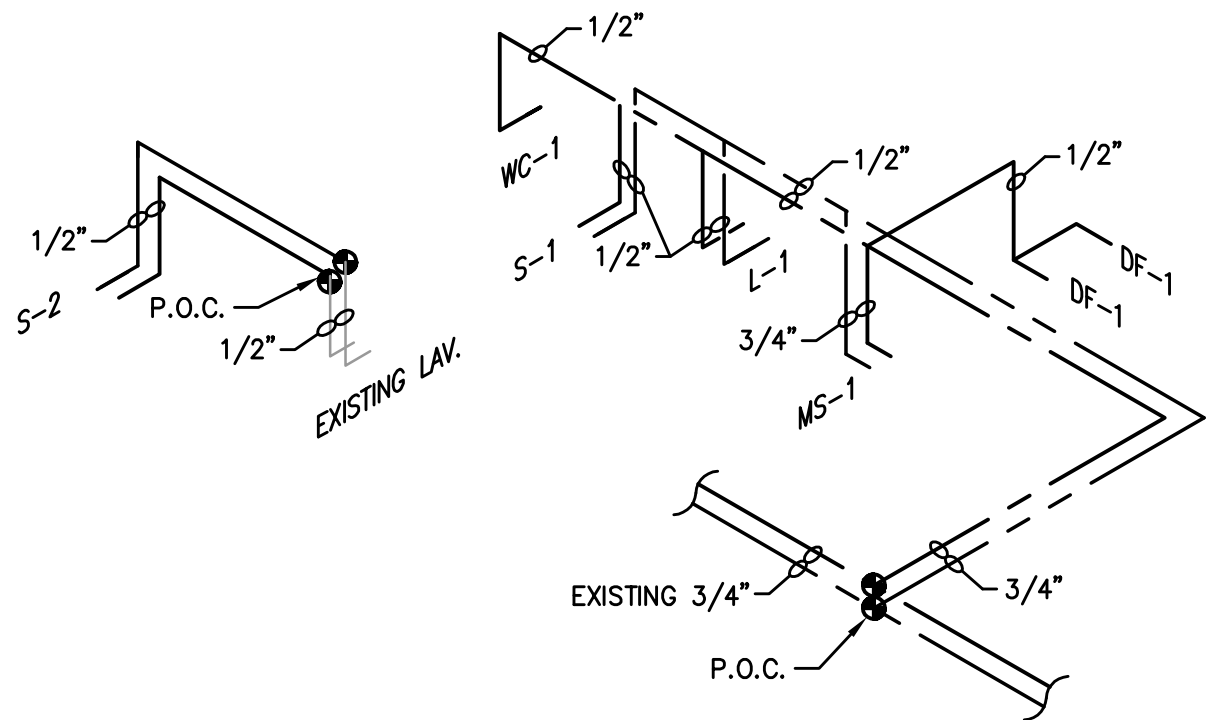
MP-1

Mar 21, 2021 - 6:36pm



HEAT PUMP SPLIT-SYSTEM DETAIL

1
MP-2



DOMESTIC WATER SCHEMATIC DIAGRAM

SCALE: N.T.S.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	FIXTURE SPECIFICATIONS		ACCESSORIES/ REMARKS	FIXTURE CONNECTIONS				FIXTURE UNITS			
		MANUFACTURER & MODEL NUMBER *	FITTING		COLD WATER	HOT WATER	WASTE	VENT	QUANTITY OF FIXTURES	WATER F.U. EACH	WASTE F.U. EACH	TOTAL
WC-1	WATER CLOSET	KOHLER K-78248-0		STAINLESS STEEL	1/2"	-	3"	2"	1	5	5	6
L-1	LAVATORY (HANDICAPPED)	MANSFIELD 2018HB	DELTA 231-333 A.D.A.	20"x18" WALL-HUNG, A.D.A. COMPLIANT, INSULATE TRAP & WATER SUPPLIES	1/2"	1/2"	1-1/2"	1-1/2"	1	1	1	1
S-1	SINK	ELKAY LRAD-171650	DELTA 2772944	5"D. ADA COMPLIANT INSULATE TRAP AND HW	1/2"	1/2"	2"	1-1/2"	1	4	4	3
S-2	SINK	ELKAY LRAD-171650	DELTA 2772944	5"D. ADA COMPLIANT INSULATE TRAP AND HW	1/2"	1/2"	2"	1-1/2"	1	4	4	3
DF-1	DRINKING FOUNTAIN	ELKAY LZSTL8C	-	A.D.A. COMPLIANT, 1/5 H.P. COMP. 120 VOLT, 8.0 GPH	1/2"	-	2"	1-1/2"	2	2	4	2
MS-1	MOP SINK	FIAT MSB-2424	FIAT 830AA	24"x24"x 10"DEEP,	1/2"	1/2"	3"	2"	1	4	4	2
WH-1	WATER HEATER	BRADFORD-WHITE M-1-30R6D5	EXPANSION TANK	4500 WATT, 240V/1# 30 GALLON STORAGE	3/4"	3/4"	-	-	1	-	-	-
FD-1	FLOOR SINK	WADE 9142	-	TRAP W/TRAP SEAL DEVICE MI-GARD-2	-	-	2"	1-1/2"	1	-	-	2
TOTAL									10	-	-	10

* ALL FIXTURES SHALL BE APPROVED BY OWNER.

UNIT HEATER SCHEDULE

MARK	MODEL	BTUH - INPUT	CFM	FAN TYPE	HP	VOLTAGE/PHASE	REMARKS
UH-1,2,3	RENZOR EGEB-10	10 K.W.	645	CENT. BLOWER	1/33	240/3	INTERNAL THERMOSTAT

MINI SPLIT HP SCHEDULE

MARK	MODEL	INDOOR UNIT (WALL MOUNTED)						OUTDOOR UNIT (ROOF-MOUNTED)					
		CFM	E.S.P.	MOTOR FLA	VOLT	HEATER KW	WEIGHT LBS	DB	WB	HEATING CAP @ 72°F	MODEL	COOLING CAPACITY	VOLTAGE/ø
AHU-4 HP-4	MITSUBISHI MZ-JP12WA	450	-	.5	115	1.5	208/1	38 LB.	80	67	MITSUBISHI MUZ-JP12WA-U	12,500 BTUH 95F AMB.	208/1

NOTE: CONTRACTOR SHALL PROVIDE 1/2" CONDENSATE LINE FROM FAN-COIL UNIT TO MOP SINK, PROVIDE CONDENSATE PUMP IF REQUIRED.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

SYMBOL	MANUFACTURER & MODEL NO.		INDOOR UNIT COIL/BLOWER							HEATING CAPACITY @ 47° F	OUTDOOR UNIT			COOLING CAPACITIES – COIL/FURNACE						REMARKS
	INDOOR UNIT	OUTDOOR UNIT	TOTAL CFM	O.A. CFM	E.S.P.	H.P.	VOLT/ø	REFRIG- ERANT	WGT		COMP. MAX.RLA	VOLT/ø	MCA	ENT. AIR		AMBIENT		BTUH (MIN.)		
														DB	WB	DB	WB	TOTAL	SENS.	
AHU–1 HP–1	TRANE TWE09043A	TRANE TWA09043A	3000	②	.5"	1.5	208–230 3 ø	R–410	242 #	87,000	28.6	208/3	38	80	67	95	–	95,000	88,000	① ③ ④ ⑤
AHU–21 HP–2	TRANE GAM5B0C48M41SB	TRANE 4TWR6048H1000A	1600	②	.5"	3/4	208–230 1 ø	R–410	150 #	48,000	18.5	208/1	26	80	67	95	–	48,000	41,400	① ③ ⑤
AHU–3 HP–3	TRANE GAM5B0B36M31SB	TRANE 4TWR6036H1000A	1200	②	.5"	1/2	208–230 1 ø	R–410	176 #	36,000	14.1	208/1	18	80	67	95	–	36,000	35,600	① ③ ⑤

- ① THROW AWAY FILTERS ② SEE FRESH AIR SCHEDULE ③ PROVIDE THERMOSTAT (HONEYWELL T7300 W/SUBBASE) ④ MECHANICAL CONTRACTOR SHALL PROVIDE DUCT SMOKE DETECTOR IN RETURN AIR DUCT FOR UNIT SHUT-DOWN. FINAL ELECTRICAL CONNECTIONS BY ELECTRICAL CONTRACTOR, FINAL TESTING BY FIRE PROTECTION CONTRACTOR.
- ⑤ NO AUXILIARY ELECTRIC HEATERS

PLUMBING GENERAL NOTES

- Comply with all local, county, state and federal codes, ordinances, rules and regulations.
- Exact location of plumbing fixtures shall be determined from architectural drawings.
- Use 95-5 Tin-Antimony solder on all soldered joints 1/2" through 2". Prepare joints with solvent and every cloth.
- Contractor to extend water piping to all fixtures, outlets and equipment. Provide shut-off valves or fixture stops, as required for proper service.
- Size all hangers on insulated lines to fit around outside diameter of insulation specified with allowances for galvanized sheet metal shield.
- Install dielectric fitting between ferrous and non-ferrous materials.
- Pipe relief drain for water heater to outside or approved receptacle.
- Soil and waste piping shall be schedule 40 ABS or PVC pipe.
- Slope soil/waste/drain piping 3" and smaller at a gradient slope of not less than 1/4" P.L.F. unless specifically noted on the drawings.
- Each vent shall terminate not less than six (6) inches above roof nor less than one (1) foot from any vertical surface and not less than ten (10) feet from or at least three (3) feet above any window, door, opening, air intake or vent shaft. Offset vent risers as required to meet these minimum clearances.
- Gas piping shall be schedule 40 black steel pipe w/malleable iron fittings. Gas piping below grade shall also have 'Scotch-Guard' plastic coating or approved plastic pipe.
- Gas piping joints shall be threaded, except piping 2 1/2" and larger shall be welded.
- Gas line flexible pipe connectors shall be constructed of a one piece design and shall be U.L. and or AGA approved as required by local authorities.
- Adequately support all pipe against sagging, picketing, swaying and displacement. Properly space and apply hangers per code.
- Contractor shall rough-in all wastes and water supplies to special equipment according to manufacturer's shop drawings and make final connections. All water supplies shall have a shut off valve.
- General, Mechanical, Electrical and Plumbing contractors and subcontractors shall coordinate their work prior to installation to provide for proper clearances between equipment, ductwork, piping, joists, ceilings, etc.
- Water piping shall be WRSBO Aquapex or equal above slab in walls and below slab.
- Install 4" back water valve on sewer line if required.
- Evap Cooler drain piping to be type "M" hard drawn copper.
- Outside condensate drains to be type "M" hard drawn copper.
- Domestic hot water pipe and recirc loop to be insulated with 1/2" wall fiber glass insulation.
- Provide access panels for all valves in walls and above GYP. board ceilings.
- All plumbing equipment, valves, pumps, fixtures, etc. shall be installed as per manufacturer's written instructions.

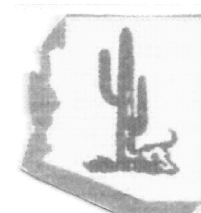
GRILLES / REGISTERS / DIFFUSERS SCHEDULE

MARK	MANUFACTURER	DESCRIPTION	MODEL	FRAME	MODULE	O.B.D.	FINISH	REMARKS
D-1	KRUEGER	ROUND DIFFUSER	RM-2	-	SEE PLAN	NO	OFF WHITE	STEEL CONSTRUCTION
R-1	KRUEGER	CEILING GRILLE	S80H-Z	-	24"x24"	YES	OFF WHITE	ZERO-DEFLECTION VANES @ 3/4" O.C.
FG-1	KRUEGER	FILTER GRILLE	S80H5FF	-	24"x24"	YES	OFF WHITE	0" DEFLECTION

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	RPM	ESP	HP/WATTS	VOLTS/PH	MAX. SONES	WT. LBS.	AREA SERVED	REMARKS
EF-1	GREENHECK	SP-7	98	950	.250"	80 W	115/1		10	TOILET	① ② CEILING EXHAUST FAN

- ① PROVIDE W/ BACK DRAFT DAMPER ② PROVIDE FACTORY WALL CAP

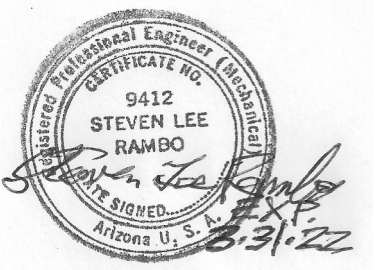


DESIGN ENGINEERING OPERATIONS

2929 E. MAIN ST. #426 MESA, AZ 85213 928-713-4953 WALRONE4@GMAIL.COM

REVISIONS	BY

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03/20/2021

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ARCHITECTURE & PLANNING

DRAWING: MECHANICAL AND PLUMBING

PROJECT:

Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN:

DRAWN BY

CHECKED BY

DATE

Mar 20th, 2021

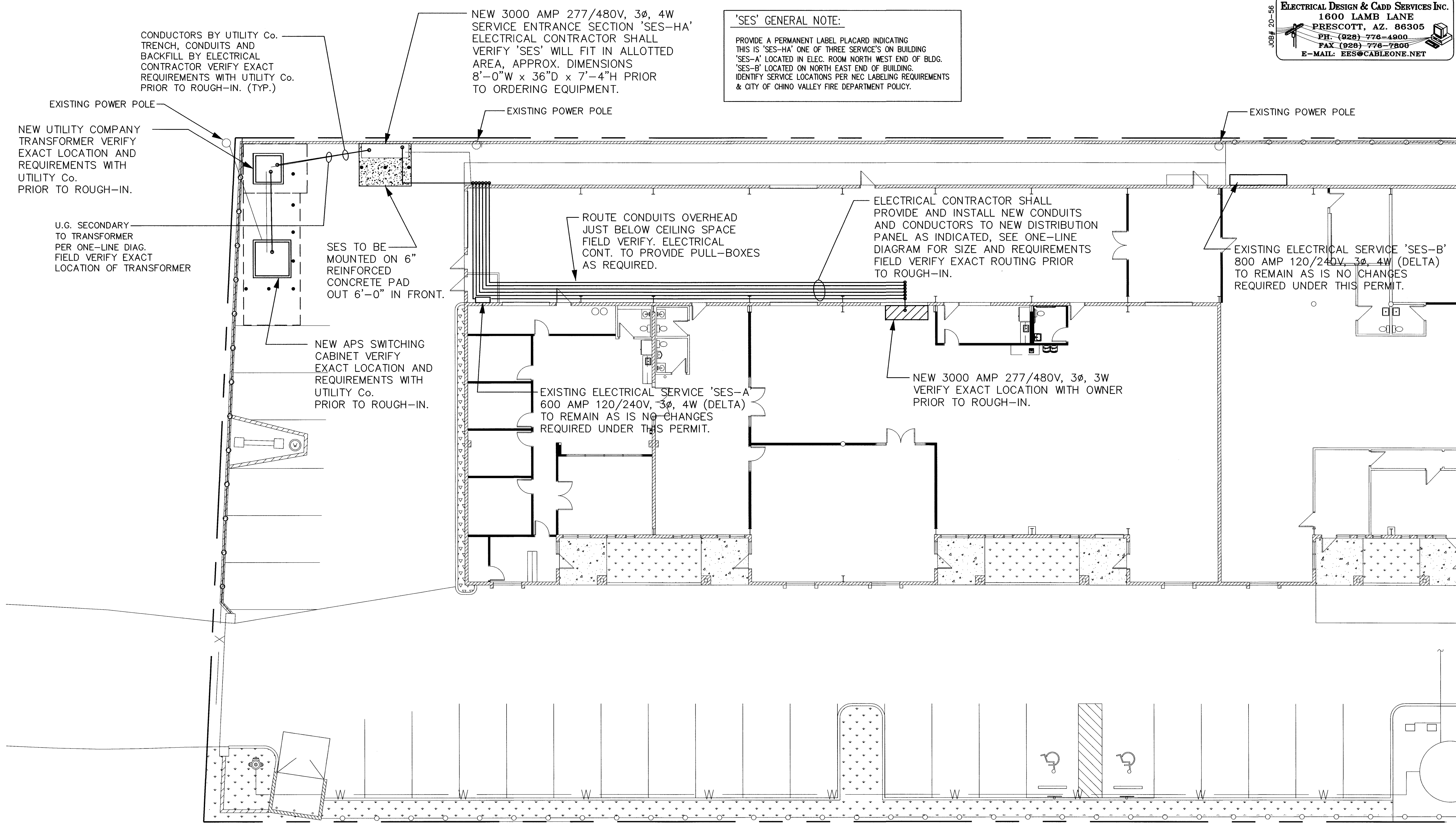
JOB NO.

761

SHEET

MP-2

Mar 15, 2021 - 5:22pm



'SES' GENERAL NOTE:
PROVIDE A PERMANENT LABEL PLACARD INDICATING THIS IS 'SES-HA' ONE OF THREE SERVICE'S ON BUILDING 'SES-A' LOCATED IN ELEC. ROOM NORTH WEST END OF BLDG. 'SES-B' LOCATED ON NORTH EAST END OF BUILDING. IDENTIFY SERVICE LOCATIONS PER NEC LABELING REQUIREMENTS & CITY OF CHINO VALLEY FIRE DEPARTMENT POLICY.

ELECTRICAL DESIGN & CADD SERVICES INC.
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CHINO VALLEY, CA 91709
EXPIRES 12/30/2021

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ARCHITECTURE & PLANNING

DRAWING: Electrical Site Plan

PROJECT: Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

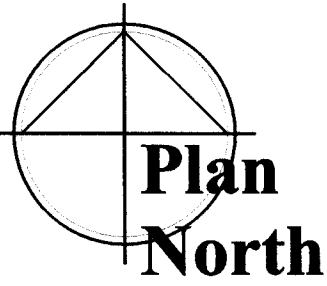
APN: 306-14-024

DRAWN BY R.A.
CHECKED BY A.O.
DATE Dec 14th, 2020
JOB NO. 761
SHEET

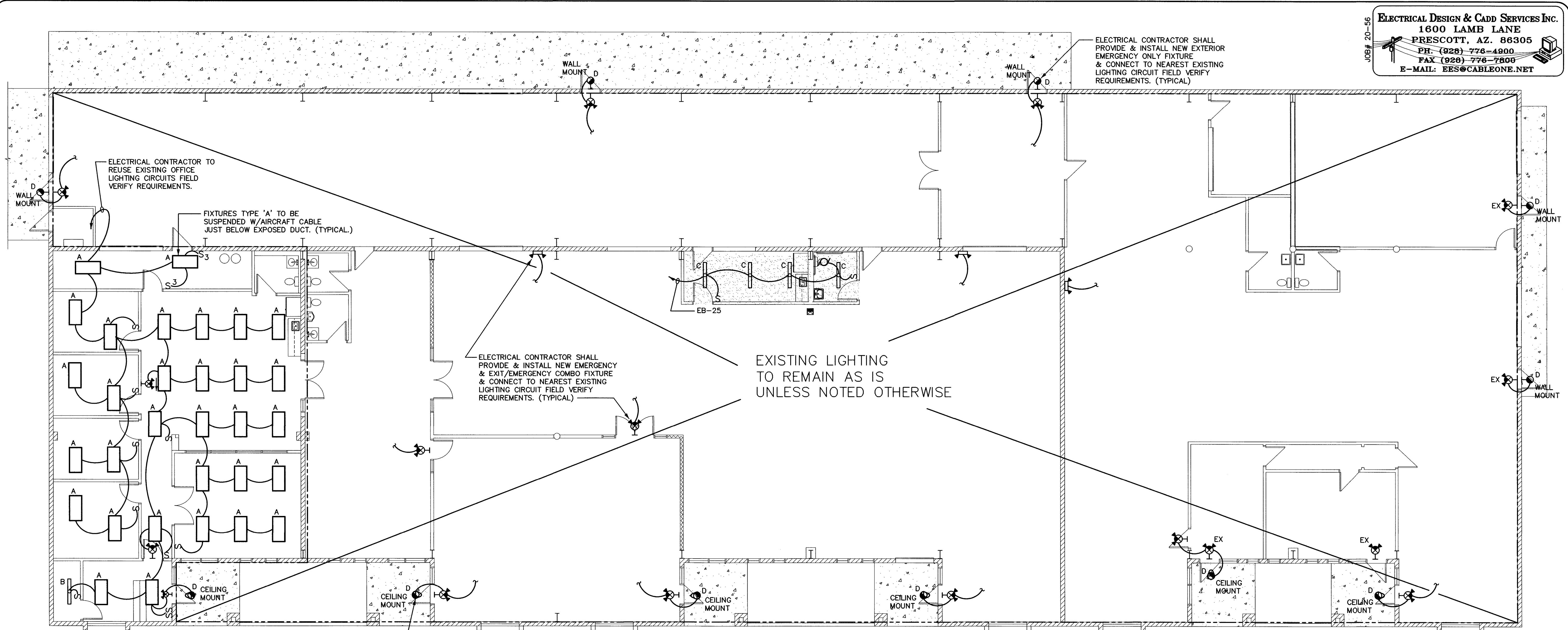
E1.1

Partial Electrical Site Plan

Scale: 1"=10'-0"



Mar 12, 2021 - 1:36pm



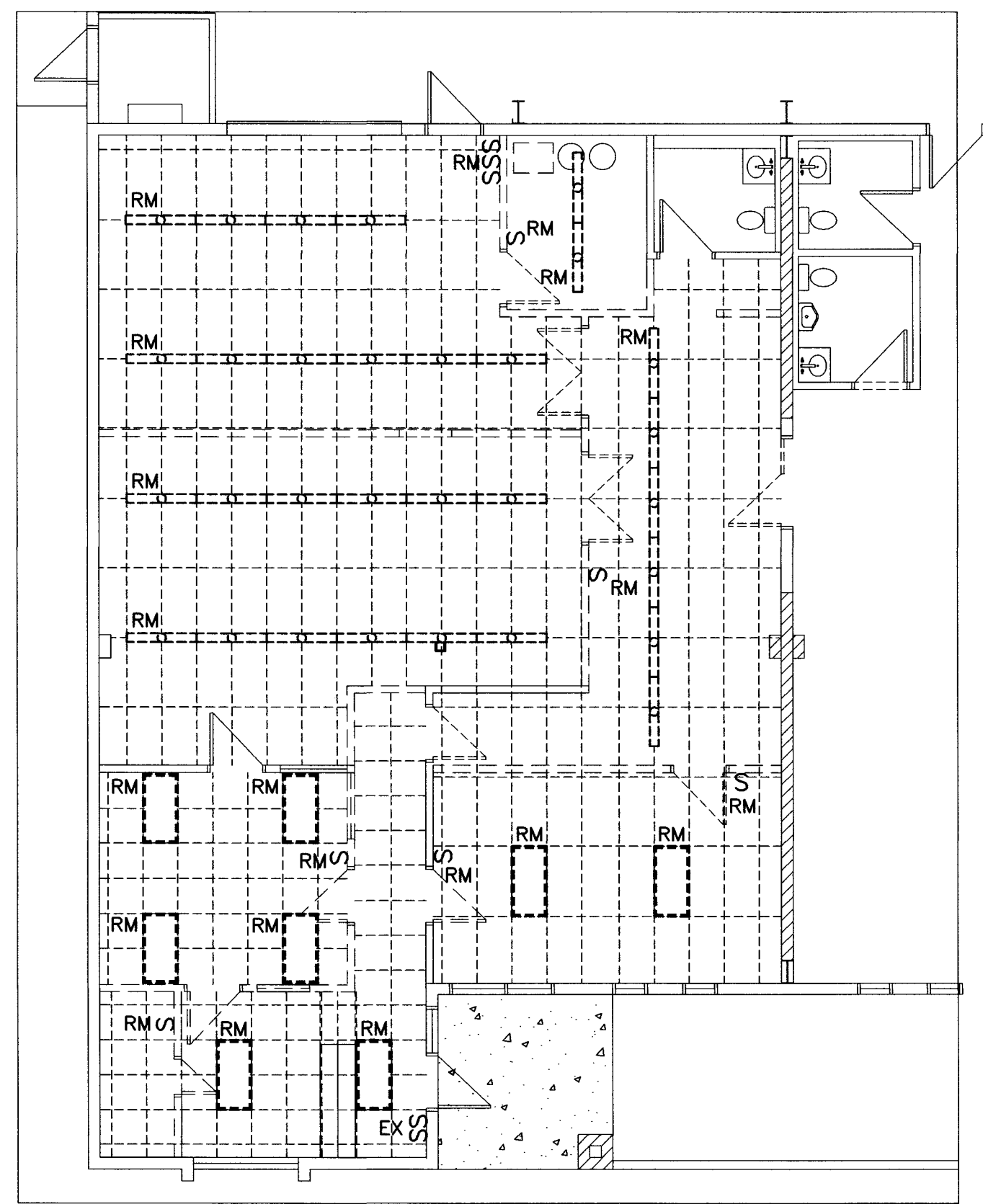
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ARCHITECTURE & PLANNING



Demo Lighting Floor Plan

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



NOTE:
ELECTRICAL CONTRACTOR SHALL FIELD VERIFY SITE PRIOR TO BID TO CONFIRM ALL EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND ABANDONED.

GENERAL NOTE:
ELECTRICAL CONTRACTOR SHALL REMOVE ALL ABANDONED OR UNUSED CONDUIT & WIRING ETC. BACK TO PANEL.

ABBREVIATIONS

EX EXISTING LIGHT OR DEVICE TO REMAIN
RE EXISTING LIGHT OR DEVICE TO BE REPLACED OR RELOCATED EXTEND CIRCUITING AS REQUIRED IF NOT SHOWN.
ER REPLACED OR RELOCATED LIGHT OR DEVICE
RM REMOVED LIGHT OR DEVICE
A.F.F. ABOVE FINISHED FLOOR (@ OF OUTLET)
A.F.G. ABOVE FINISHED GRADE (@ OF OUTLET)
E.C. EMPTY CONDUIT
UNO UNLESS OTHERWISE NOTED
FBO FURNISHED BY OTHERS
NL NIGHT LIGHT
TYP TYPICAL

Proposed Lighting Floor Plan

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



GENERAL LIGHTING NOTES:

1. IF ELECTRICAL CONTRACTOR IS NOT CERTAIN OF MOUNTING HEIGHT OR LOCATION OF ANY LIGHTING FIXTURES OR SWITCHES HE IS TO VERIFY ITEMS WITH ELECTRICAL ENG., ARCHITECT OR OWNER PRIOR TO ROUGH-IN.
2. NIGHT LIGHTS (NL), EMERGENCY & EXIT LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT.

Schedule								
Symbol	Label	Manufacturer	Catalog Number	Description	Lamp	Lumens Per Lamp	Light Loss Factor	Wattage
	A	Lithonia Lighting	CPANL 2X4 6000LM 80CRI 35K ACG 36 (DIMMING LEVEL) 21 MVOLT	CPANL 2x4, 5000 Nominal LUMENS 80 CRI, 3500K ACG 36 FLAT PANEL WITH ADJUSTABLE AIRCRAFT CABLE	LED - 3500K COLOR TEMP	5000	0.91	42.0
	B	Lithonia Lighting	GLX L48 3000LM SEP FDL MVOLT GZ10 35K 80CRI WH	GLX LED Linear 48" 3,000 lumens, Standard Efficiency, Lens: Lens: Flat Diffuse lens, General distribution, MVOLT, 0-10V dimming, 3500 CCT, 80 CRI	LED - 3500K COLOR TEMP	2738	0.91	20.32
	C	Lithonia Lighting	BLWP4 40L ADP GZ10 LP840	LOW PROFILE LED WRAPAROUND FIXTURE - CEILING	LED			41
	D	Lithonia Lighting	AFB PEL CGL DDBTXD 120V N WT USPOM	AFFINITY DIE-CAST EMERGENCY LIGHT FIXTURE	LED			2.6

EXIT / EMERGENCY SCHEDULE

Symbol	Manufacturer	Catalog Number	Description	Lamp	Wattage
	Lithonia Lighting	LHQM LED R HO	QUANTUM LED EMERGENCY COMBO	LED	3
	Lithonia Lighting	ELMLT W LP06VS LTP	QUANTUM LED EMERGENCY TWIN-HEAD UNIT WALL MOUNT	LED	10.8

DRAWING: Lighting Floor Plan

PROJECT:

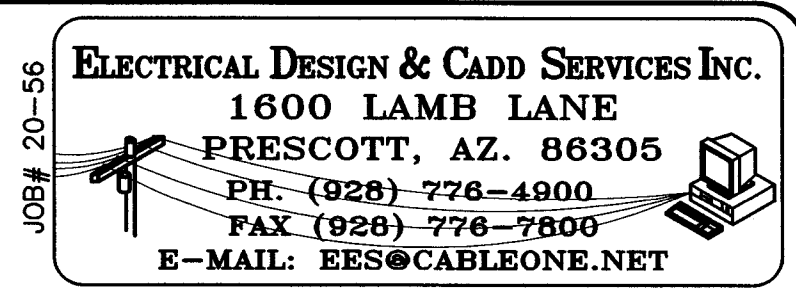
Thermal Vac
2575 N. St. Rt. 89
Chino Valley, AZ 86323

APN:

306-14-024

DRAWN BY
R.A.
CHECKED BY
A.O.
DATE
Dec 14th, 2020
JOB NO.
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E1.2



REVISIONS	BY

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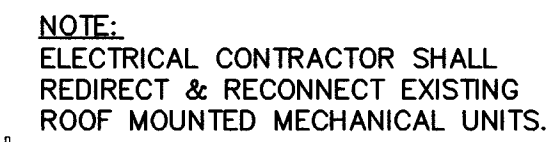



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ARCHITECTURE & PLANNING



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



1. IF ELECTRICAL CONTRACTOR IS NOT CERTAIN OF MOUNTING HEIGHTS, LOCATIONS OR RUN INTO CONFLICTS OF RECEPTACLES OR DEVICES HE IS TO VERIFY ITEMS WITH ELECTRICAL ENG.,
2. ELECTRICAL CONTRACTOR SHALL RE-USE EXISTING CIRCUITS AS SHOWN.
3. ALL RECEPTACLES IN AREAS WITH-IN 6'-0" OF A SINK SHALL BE GFCI TYPE PER NEC
4. EXTERIOR & ROOF MOUNTED MAINT. RECEPT'S. SHALL BE WP, GFCI TYPE PER NEC
5. VERIFY THE EXACT LOCATIONS OF ALL TELEPHONE OUTLETS, DATA OUTLETS AND SPECIAL SYSTEMS OUTLETS WITH THE OWNER PRIOR TO ROUGH-IN.
6. ELECTRICAL CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT REQUIREMENTS BREAKER, DISC. & WIRE SIZE WITH MANUFACTURER PRIOR TO ROUGH-IN.

NOTE:
ELECTRICAL CONTRACTOR SHALL
FIELD VERIFY SITE PRIOR TO BID
TO CONFIRM ALL EXISTING ELECTRICAL
EQUIPMENT TO BE REMOVED AND
ABANDONED.

GENERAL NOTE:
ELECTRICAL CONTRACTOR SHALL
REMOVE ALL ABANDONED OR UNUSED
CONDUIT & WIRING ETC. BACK TO PANEL.

EX	EXISTING LIGHT OR DEVICE TO REMAIN
RE	EXISTING LIGHT OR DEVICE TO BE REPLACED OR RELOCATED EXTEND CIRCUITING AS REQUIRED IF NOT SHOWN.
ER	REPLACED OR RELOCATED LIGHT OR DEVICE
RM	REMOVED LIGHT OR DEVICE
A.F.F.	ABOVE FINISHED FLOOR ($\frac{1}{2}$ OF OUTLET)
A.F.G.	ABOVE FINISHED GRADE ($\frac{1}{2}$ OF OUTLET)
E.C.	EMPTY CONDUIT
UNO	UNLESS OTHERWISE NOTED
FBO	FURNISHED BY OTHERS
NL	NIGHT LIGHT
TYP	TYPICAL

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



DRAWING: Power Floor Plan

PROJECT: Thermal Vac.
2575 N. St. Rt. 89
Chino Valley, AZ

APN: 306-14-024

DRAWN BY	R.A.
CHECKED BY	A.O.
DATE	Dec 14th, 2020
JOB NO.	761
SHEET	

E1.3

