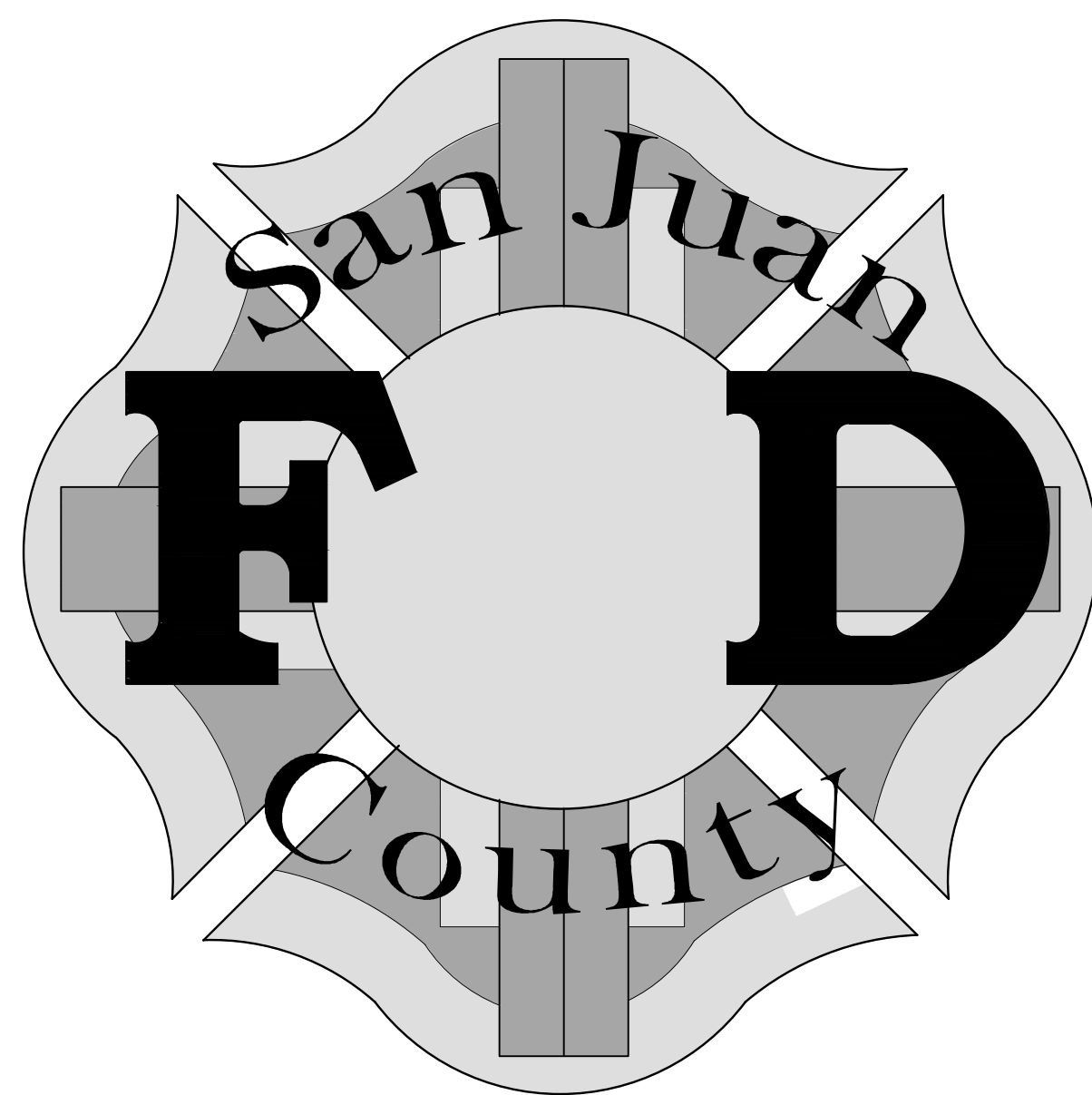


SAN JUAN COUNTY FIRE STATIONS

ADDITIONS/RENOVATIONS TO LA PLATA FIRE STATION #2

BID #19-20-05



RODAHL & HUMMELL ARCHITECTURE, P.C.
 609 NORTH DUSTIN FARMINGTON, N.M. (505)326-6442 (PHONE)

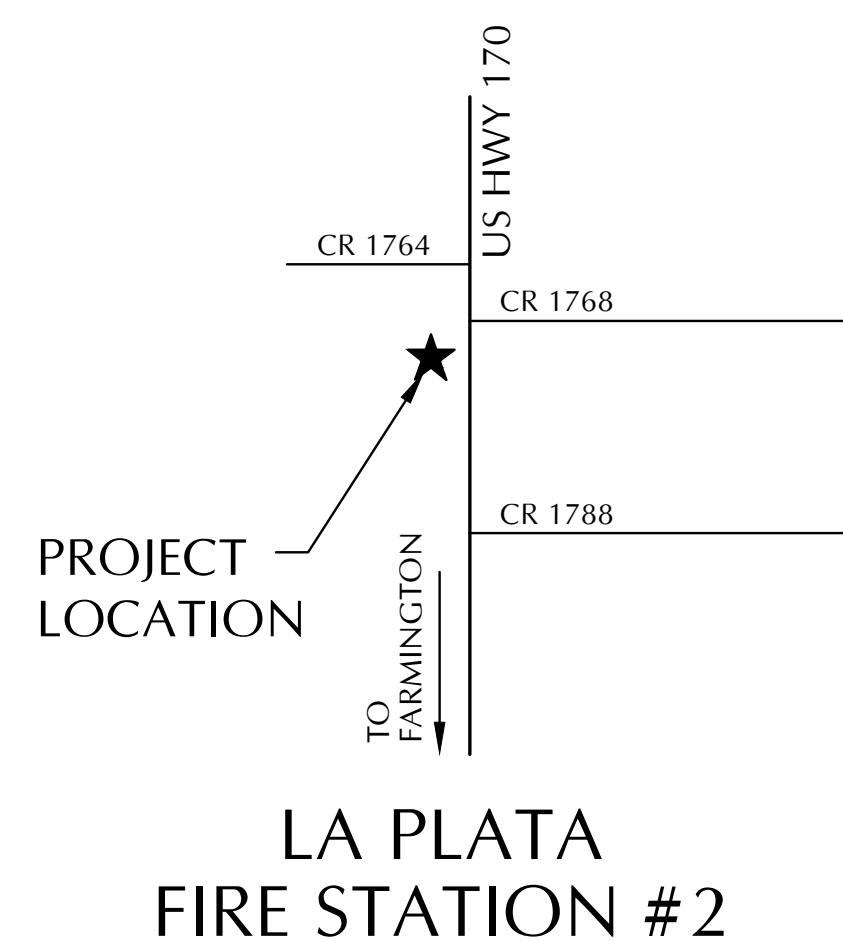
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COUNTY COMMISSIONERS

CHAIRMAN:
 JACK FORTNER
COMMISSIONERS:
 GLOJEAN TODACHEENE
 MIKE SULLIVAN
 JIM CROWLEY
 JOHN BECKSTEAD
COUNTY MANAGER:
 MIKE STARK
FIRE CHIEF:
 JOHN MOHLER

VICINITY MAP



PROJECT CONSULTANTS

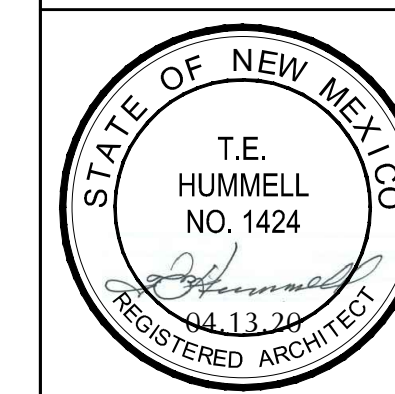
STRUCTURAL ENGINEER
 WILSON STRUCTURAL ENGINEERING
 1235 THOROUGHCREED RD.
 DURANGO CO 81301
 970-385-6774/970-385-6774 FAX.

MECHANICAL /ELECTRICAL ENGINEER
 M. E. & E. ENGINEERING
 463 TURNER DRIVE, 104a
 DURANGO CO 81303
 970-385-1570 / 970-385-1569 FAX

CIVIL ENGINEER
 CHENEY-WALTERS-ECHOLS
 909 W. APACHE
 FARMINGTON, NM 87401
 505-327-3303

PROJECT DATA

<p>APPLICABLE CODES: 2015 INTERNATIONAL BUILDING CODE 2015 UNIFORM MECHANICAL CODE 2017 NATIONAL ELECTRICAL CODE 2015 INTERNATIONAL FIRE CODE 2015 UNIFORM PLUMBING CODE CABO/ANSI A 117.1-2009 2015 NEW MEXICO BUILDING CODE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN</p> <p>OCCUPANCY TYPE (PER SECTION 302): B/S-2</p> <p>CONSTRUCTION TYPE (PER TABLE 601): VB</p> <p>MAX. ALLOWABLE SQUARE FOOTAGE PER FLOOR: (PER TABLE 503) 9,000 S.F.</p>	<p>BUILDING AREA: EXISTING: 3,200 S.F. NEW: 1,320 S.F. TOTAL: 4,520 S.F.</p> <p>OCCUPANT LOAD: S-2: 2,400 S.F. / 500 = 5 B: 2,120 S.F. / 100 = 21 TOTAL: 26</p> <p>PLUMBING FIXTURE REQUIREMENTS: (PER TABLE 2902.1) REQUIRED: 1 W.C., 1 LAV & PER SEX PROVIDED: 1 W.C., 1 LAV PER SEX, PLUS 1 SHOWER</p>	<p>PROPERTY OWNER: SAN JUAN COUNTY</p> <p>PROPERTY ADDRESS: #679 NM HWY 170 LA PLATA, NM 87418</p>
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DATE:
 April 13, 2020
PROJ. No. 190920

GENERAL NOTES:

SPECIFICATIONS

ALL WORK DETAILED ON THESE PLANS IS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, IN ACCORDANCE WITH THE "NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" - 2008 EDITION (REFERRED HEREIN BY SECTION OR DRAWING NUMBER) AND THE SUPPLEMENTAL SPECIFICATIONS AND DRAWINGS PROVIDED IN THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL FAMILIARIZE HIM/HER SELF WITH THE PLANS, THE REPORT OF THE GEOTECHNICAL INVESTIGATION AND THE SITE CONDITIONS PRIOR TO COMMENCING WORK, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY AMBIGUITIES, CONTRADICTIONS OR IRREGULARITIES IN THE PLANS.

IF, DURING BIDDING OR CONSTRUCTION, THE CONTRACTOR IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE PLANS, SPECIFICATIONS, OR OTHER CONTRACT DOCUMENTS, OR DISCREPANCIES IN OR POSSIBLE OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND REQUEST AN INTERPRETATION OR CORRECTION THEREOF, DURING THE BIDDING PROCESS AND ADDENDUM (IF NEEDED) WILL BE ISSUED.

THE CONTRACTOR IS RESPONSIBLE FOR APPLICABLE PORTIONS OF THE EPA STORM WATER DISCHARGE REGULATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND PERMIT COMPLIANCE REQUIRED FOR CONSTRUCTION OF THE PROJECT.

EXISTING UTILITIES & OBSTACLES TO WORK

THE LOCATION, SIZE, AND CONDITION OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN IN THESE PLANS ARE BASED ON AVAILABLE RECORDS. TO THE BEST OF THE ENGINEERS KNOWLEDGE, THERE ARE NO EXISTING UNDERGROUND UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS, AND IS RESPONSIBLE FOR LOCATION OF, PROTECTION OF OR ANY DAMAGE TO THESE LINES OR STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES AND OBTAINING LINE SPOTS.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. UTILITY LINES IDENTIFIED ON PLANS SHALL BE LOCATED BY THE CONTRACTOR FAR ENOUGH IN ADVANCE OF CONSTRUCTION WORK THAT THE UTILITY LINES CAN RAISE, LOWER, REALIGN OR REMOVE LINES AND STRUCTURES (IF NECESSARY) AND THE ENGINEER CAN MAKE NECESSARY LINE AND GRADE CHANGES (SHOULD THE EXISTING UTILITY LINES CONFLICT WITH THE WORK UNDER CONSTRUCTION). PROVIDING SUCH ADJUSTMENTS DO NOT MATERIALLY AFFECT THE WORK.

CONTRACTOR SHALL BE HELD RESPONSIBLE FOR COSTS OF REPAIR OF ANY AND ALL DAMAGE TO ANY UTILITY (WHICH IS PREVIOUSLY KNOWN AND DISCLOSED TO HIM BY THE UTILITY OR SHOWN ON THESE PLANS) AS MAY BE CAUSED BY HIS OPERATIONS.

FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE-CALL SYSTEM, INC. 811, FOR LOCATION OF EXISTING UTILITIES.

CONTRACTOR SHALL GIVE ALL PUBLIC AND PRIVATE UTILITY COMPANIES NOTICE AS SOON AS POSSIBLE, IN NO EVENT LESS THAN FORTY EIGHT (48) HOURS, FOR ANY WORK THAT IS UNDERSTOOD TO INTERFERE WITH THE SERVICE OF ANY EXISTING PUBLIC OR PRIVATE UTILITY. IF SUCH PUBLIC OR PRIVATE UTILITY DOES NOT COOPERATE FOR THE PROTECTION OF IT'S SERVICES, CONTRACTOR SHALL NOTIFY ENGINEER.

CONTRACTOR SHALL IMMEDIATELY REPORT ANY DAMAGES TO PUBLIC OR PRIVATE PROPERTY TO THE OWNERS OF THE PROPERTY INVOLVED AND TO THE ENGINEER. CONTRACTOR SHALL REPAIR OR RESTORE AT HIS OWN EXPENSE ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY, FOR WHICH HE IS DIRECTLY OR INDIRECTLY RESPONSIBLE, TO A CONDITION EQUAL TO THAT EXISTING BEFORE DAMAGE. CONTRACTOR SHALL PROMPTLY NOTIFY HIS INSURANCE CARRIER OF SUCH DAMAGE. IF CONTRACTOR FAILS TO GIVE SUCH NOTICE TO HIS INSURANCE CARRIER OF SUCH DAMAGE OR REFUSES TO EFFECT SUCH REPAIRS OR RESTORATION UPON RECEIPT OF NOTICE, THE ENGINEER MAY CAUSE SUCH REPAIRS OR RESTORATION AND DEDUCT THE COST THEREOF FROM MONEYS DUE, OR WHICH MAY BECOME DUE, TO THE CONTRACTOR.

SITE CONDITIONS

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES ADJACENT TO THE CONSTRUCTION AREA.

DUST ABATEMENT/CONSTRUCTION WATER: THE CONTRACTOR SHALL USE WATERING EQUIPMENT FOR DUST POLLUTION ABATEMENT AS REQUIRED OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND COORDINATING CONSTRUCTION WATER SUPPLY WITH LOWER VALLEY WATER USER'S ASSOCIATION SHALL ARRANGE FOR AND PAY FOR ANY COSTS FOR PERSONNEL AS CONTRACTOR THE CONSTRUCTION WATER FREE OF CHARGE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

COMMUNICATION

CONTRACTOR SHALL KEEP THE OWNER AND THE ENGINEER UPDATED ON THE CONSTRUCTION SCHEDULE AND/OR PHASE SCHEDULE, AND PROGRESS TO DATE.

SUBMITTALS

CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL EQUIPMENT, MATERIALS, PROCESSES AND SCHEDULES AND AS REQUESTED BY THE ENGINEER.

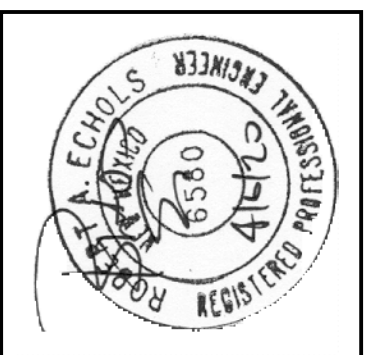
EROSION CONTROL / ENVIRONMENTAL PROTECTION / STORM WATER POLLUTION PREVENTION PLAN

1. THE CONTRACTOR SHALL CONFORM TO ALL COUNTY, STATE AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL PREPARE AND OBTAIN ANY NECESSARY DUST AND/OR EROSION CONTROL PERMITS FROM REGULATORY AGENCIES, INCLUDING POSTING ITS APPROVED SWPPP.
 2. THE CONTRACTOR SHALL PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY TO KEEP IT FROM WASHING OFFSITE OF THE PROJECT SITE.
 3. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO OTHER PROPERTY BY CONSTRUCTING TEMPORARY EROSION CONTROL BERMS OR INSTALLING SILT FENCES AT THE PROPERTY LINES.
 4. THE CONTRACTOR SHALL MITIGATE EROSION OF TEMPORARY OR PERMANENT DIRT SWALES BY INSTALLING CHECK DAMS IN THE SWALES PERPENDICULAR TO THE DIRECTION OF FLOW, AND AT INTERVALS SPECIFIED.
 5. THE CONTRACTOR SHALL WET THE SOIL AS NEEDED TO KEEP IT FROM BLOWING. WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL AND SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE THEREFORE. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL IN COMPLIANCE WITH LOCAL STATE, FEDERAL AND COUNTY ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED.
 6. ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR AN IMPERVIOUS SURFACE SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING. WHEN CONSTRUCTION ACTIVITIES CEASE AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME WITHIN 21 DAYS, STABILIZATION MEASURES MUST BE IMPLEMENTED. UNLESS INDICATED OTHERWISE ON THESE PLANS OR THE LANDSCAPING PLAN, NATIVE GRASS SEEDING SHALL BE "BLM" SEEDING.
 7. ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNATED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.) GARBAGE, GRUBBING, EXCESS CUT MATERIAL, VEGETATIVE DEBRIS, ETC., SHALL BE APPROPRIATELY DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMITS REQUIRED FOR HAUL OR DISPOSAL OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES AND ARCHAEOLOGICAL RESOURCES.
 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS INCLUDE GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS, PAINTS, ETC., WHICH MAY BE A THREAT THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE AT 1 (505) 827-9329.
 9. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHOULD BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.
 10. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND OPERATION HOURS.
- II. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ONSITE AT ALL TIMES AND SHALL COMPLY WITH THE REQUIREMENTS INDICATED ON THAT PLAN.

BY	
DATE	
REVISION	

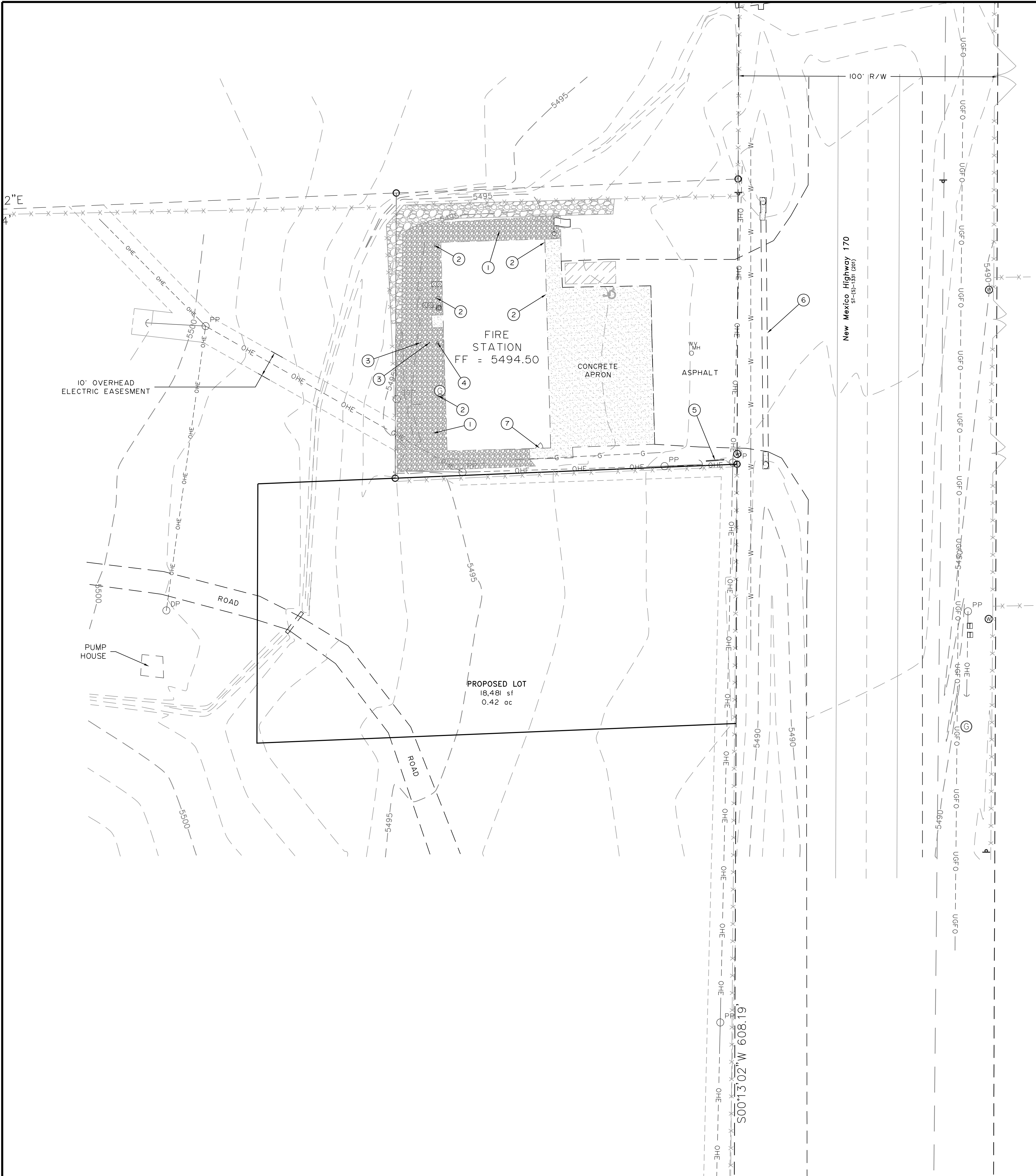
CHENEY-WALTERS-ECHOLS
ENGINEERS • SURVEYORS

909 W. APACHE • FARMINGTON, NEW MEXICO 87401 • (505)327-3303
CD 10/18/06, 10/18/06
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CONSTRUCTION NOTES
 FIRE STATION EXPANSION
 LaPLATA FIRE STATION DISTRICT No. 4
 LaPLATA NEW MEXICO

DATE: 04/01/2020
 DRAWN BY: HWS
 PROJ. 20127
 SCALE: NOTED
 FILE: 20127SET-031820
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 4



KEYED NOTES:

- ① GRAVELED AREA SMALL DRAINAGE INVERT ON WEST AND SOUTH SIDE OF EXISTING STATION.
- ② 4"Ø ROOF DRAIN WITH CONCRETE SLASH PAD.
- ③ 2" POST FOR SATELLITE DISH.
- ④ 12" TRIANGLE STEEL COMMUNICATIONS TOWER.
- ⑤ LøPLATA FIRE STATION SIGN.
- ⑥ 24"Ø CMP CULVERT. INLET AND OUTLET SILTED OVER.
- ⑦ EXISTING SECURITY LOCKED DOOR.

DATE	REVISION	BY

CHENEY WALTERS ECHOLS
ENGINEERS SURVEYORS

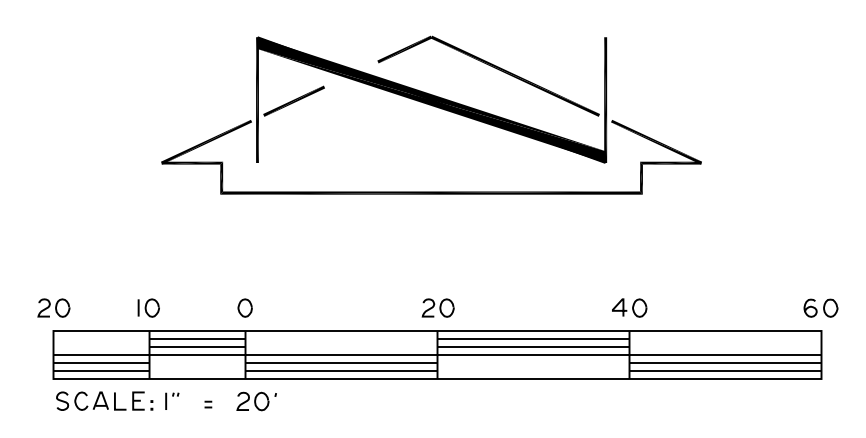
909 W. APACHE FARMINGTON, NEW MEXICO 87401 • (505)327-3503
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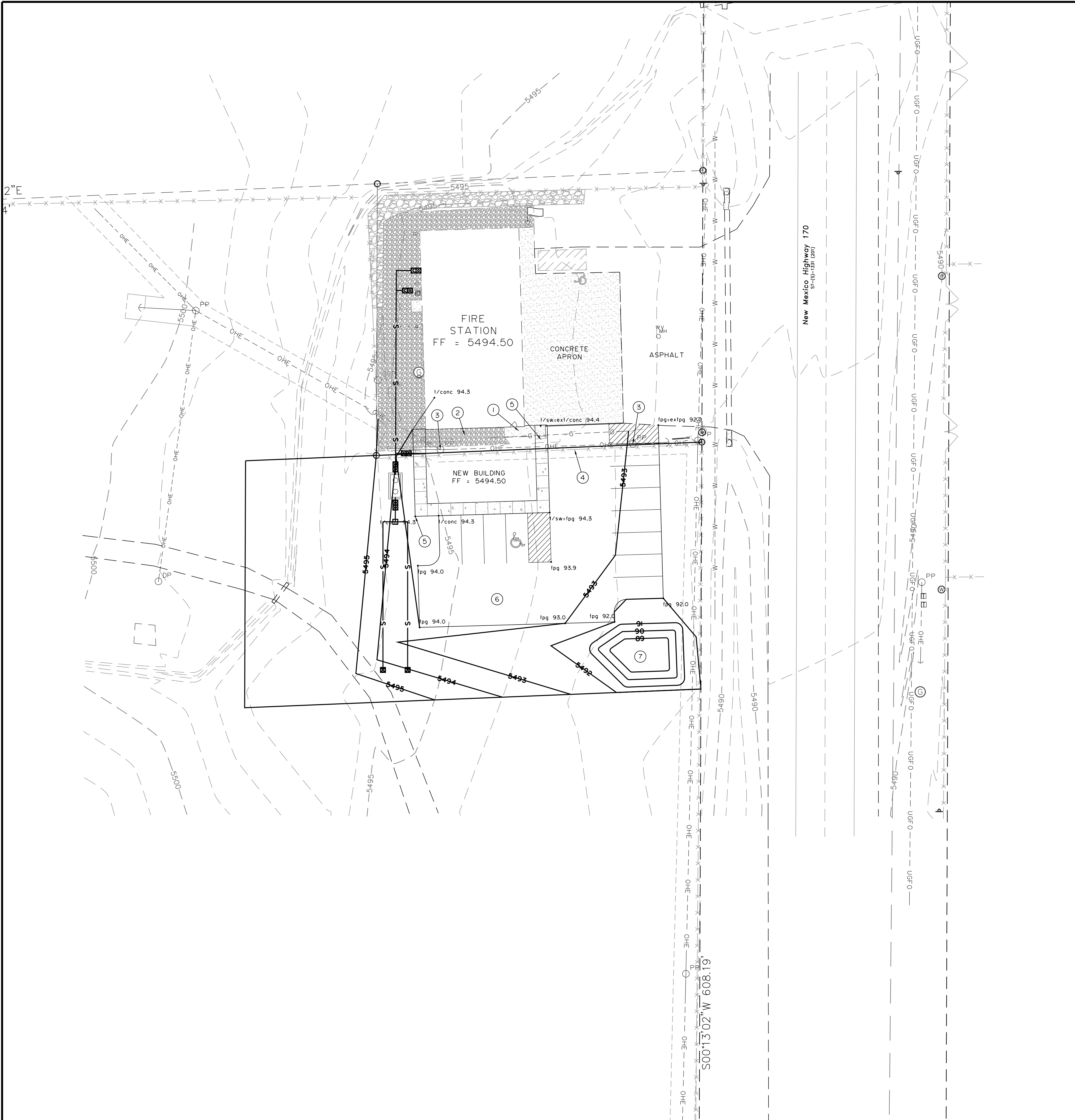


EXISTING SITE CONDITIONS
 FIRE STATION EXPANSION

LøPLATA FIRE STATION DISTRICT No. 4
 LøPLATA NEW MEXICO

DATE: 04/01/2020
 DRAWN BY: HWS
 PROJ. 20127
 SCALE: 1" = 20'
 FILE: 20127SET-031820
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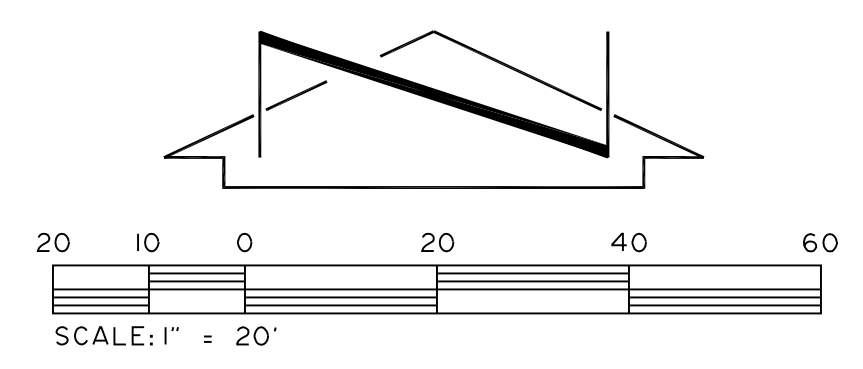




- KEYED NOTES:**
- ① REMOVE EXISTING CONCRETE SIDEWALK 17.0'x4.0' FOR NEW BUILDING CONSTRUCTION.
 - ② REMOVE 32.0' OF EXISTING GRAVEL ALONG THE SOUTH SIDE OF THE EXISTING BUILDING.
 - ③ REMOVE EXISTING POWER POLES AND OVERHEAD ELECTRICAL. SEE ARCHITECTURAL/ELECTRIC PLANS.
 - ④ REMOVE EXISTING 6.0' CHAIN LINK FENCE AND SALVAGE FOR OWNER.
 - ⑤ NEW 5.0' WIDE CONCRETE SIDEWALK. MATCH EXISTING FINISH GRADES AT EDGE OF EXISTING CONCRETE APRON. SEE DETAIL D5/C-4 & DD3/C-4.
 - ⑥ NEW ASPHALT PAVEMENT. SEE DETAIL D2/C-4.
 - ⑦ PLACE 3" TO 6" CLEAN ROCK ON FABRIC TO INCLUDE POND "A" INVERT AND SIDE SLOPES TO ELEVATION 5491.00.

96- HOUR POND DRAIN PER NMDSE

SOIL TYPE - FRUITLAND SANDY (FR)
 ANTICIPATED POND WATER DEPTH = 12"
 PERCOLATION RATE - 2.0 - 6.0 IN/HR USE 3 IN/HR
 TIME TO DRAIN - 12 INCHES / 3 IN/HR = 4 HOURS



DATE	REVISION	BY

CHENEY WALTERS ECHOLS & ENGINEERS SURVEYORS

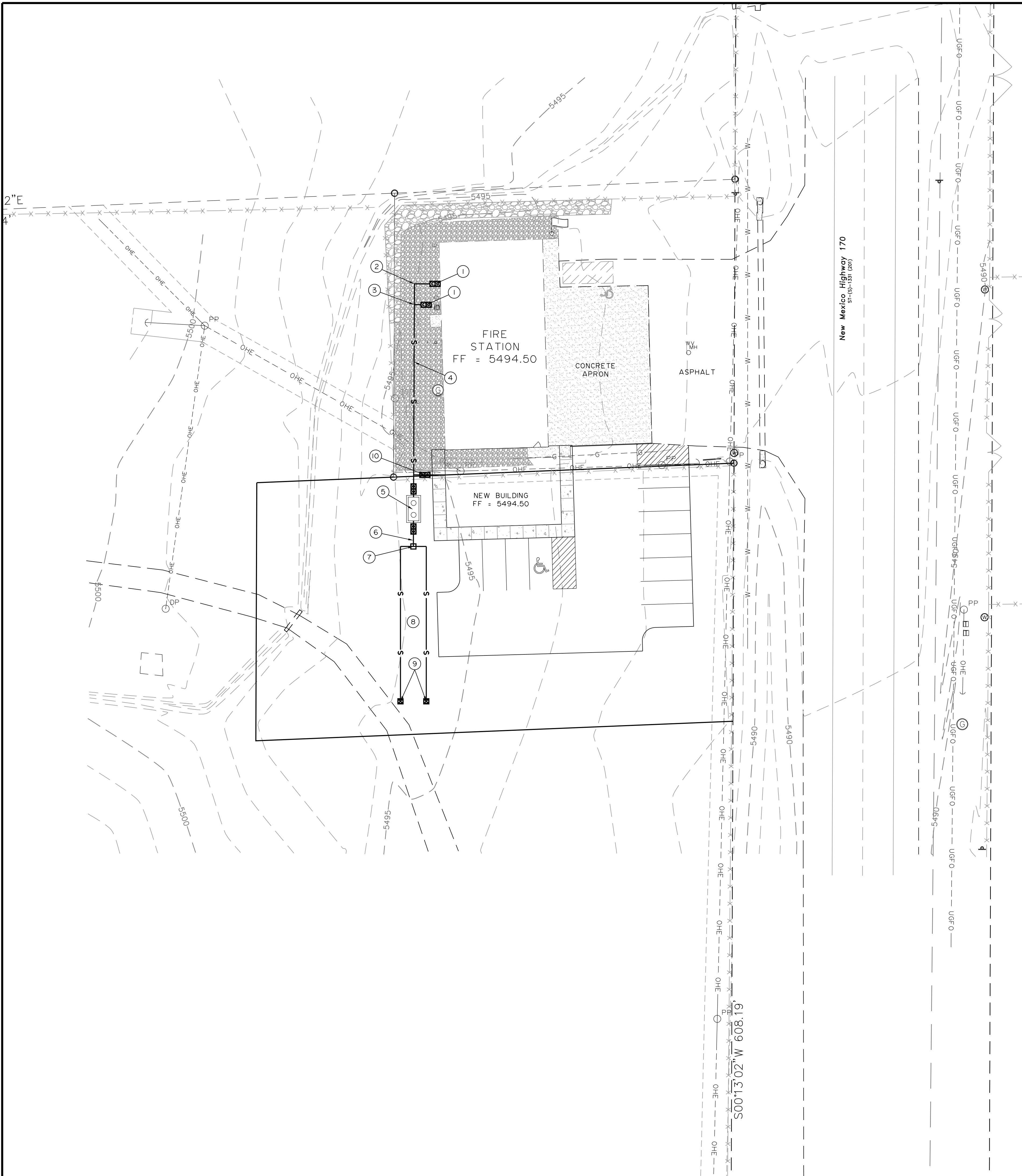
909 W. APACHE FARMINGTON, NEW MEXICO 87401 • (505)327-3503
 LICENSE NO. 20200 • REG. STATE ENGINEER
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**SITE GRADING PLAN
 FIRE STATION EXPANSION**

**LaPlata Fire Station District No. 4
 LaPlata New Mexico**

DATE: 04/01/2020
 DRAWN BY: HWS
 PROJ. 20127
 SCALE: 1" = 20'
 FILE: 20127SET-031820
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C-2
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4



KEYED NOTES:

1. REPLACE EXISTING SEWER CLEAN OUTS WITH NEW 4" TWO WAY CLEAN OUT. SEE DETAIL D7/C-4. CONTRACTOR TO FIELD VERIFY NEW INVERT OF CLEAN OUT. THIS INVERT WILL BE THE CONTROLLING FACTOR IN DETERMINING THE DEPTH OF ALL THE PIPING AND SEPTIC SYSTEM. ALL SANITARY SEWER PIPES SHALL MAINTAIN A MINIMUM OF 2.0% SLOPE GRADE.
2. 14.1' 4" SCH40 PVC DRAIN LINE FOR FLOOR DRAINS WITH EXISTING TWO WAY CLEAN OUT REPLACED WITHIN 5.0' OF BUILDING. SEE PLUMBING PLAN FOR CONTINUATION.
3. INSTALL 4" SANITARY WYE TO CONNECT BOTHE SEWER LINES TOGETHER.
4. 74.6' 4" SCH40 PVC SEWER LINE @ MINIMUM 2.0% GRADE.
5. INSTALL 1500 GAL. SEPTIC TANK WITH TWO WAY CLEAN OUTS AT INLET AND OUTLET. SEE DETAIL D1/C-4.
6. 10.0' 4" SCH40 PVC SEWER LINE @ MINIMUM 2.0% GRADE.
7. LEACH FIELD DISTRIBUTION BOX.
8. LEACH FIELD: INFILTRATOR SYSTEM - 2 - 45' EZ FLOW I204V-GE0 WITH INSPECTION PORTS - SPACE MIN. 10' O.C. SEE DETAIL D6/C-4.
9. 4" PVC INSPECTION PORT AT END OF LEACH FIELD RUN. SEE DETAIL D4/C-4.
10. INSTALL NEW 4" TWO WAY CLEAN OUT WITHIN 5.0' OF BUILDING. THE INVERT OF THIS LINE SHALL BE DETERMINED BY THE VERIFIED CONDITIONS OF KEYED NOTE No. 1. SEE DETAIL D7/C-4.

CONTRACTOR NOTES:

1. CONTRACTOR TO LOCATE AND UNCOVER EXISTING SEPTIC TANK.
2. THE EXISTING SEPTIC TANK TO BE ABANDONED BY FILLING WITH SOILS IN AN APPROVED MANNER AS PER THE ED.
3. EXISTING LEACH FIELD TO BE ABANDONED IN PLACE.
4. NO PART OF THE EXISTING SEPTIC SYSTEM SHALL BE USED WITH THE NEW INSTALLATION.
5. CONTRACTOR TO VERIFY THE INVERTS OF THE EXISTING SANITARY SEWER CLEAN OUTS AND CONNECTION POINTS TO DETERMINE THE DEPTH OF ALL THE NEW SEWER LINES AND SEPTIC SYSTEM. ALL SANITARY SEWER PIPING SHALL HAVE A MINIMUM OF 2.0% SLOPE GRADE.

SEPTIC SYSTEM DESIGN:

FLOW RATE OF 78gpd BASED ON SIMILAR SAN JUAN COUNTY FIRE STATION 12 MONTH WATER METER RECORDS.

SEPTIC TANK CALCULATIONS

78gpd X 2.5 = 195gal MIN. TANK CAPACITY
USE 1500 GAL. TANK

LEACH FIELD CALCULATIONS

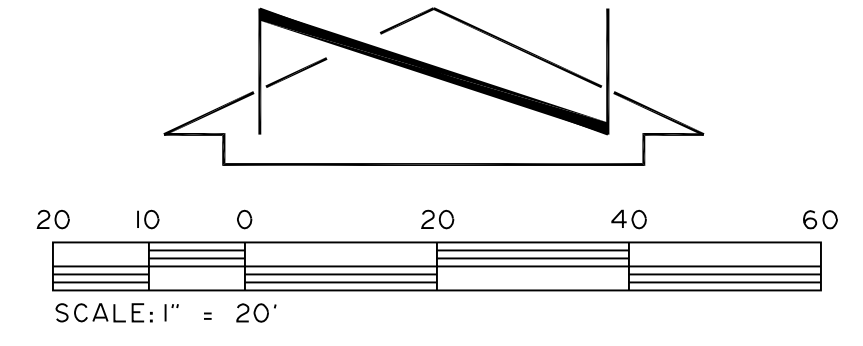
78gpd X 1.5 SAFETY FACTOR = 117gpd DESIGN FLOW (Q)
SAND CLAY = 5.0 ABSORPTION RATE (AR)
AR x Q = sq.ft. - 5.0 x 117 = 585 sq.ft.
INFILTRATOR SYSTEM BY EZ FLOW PRODUCTION
TRENCH WIDTH = 18" EZ FLOW I204V-GE0-7.0 sl/ft
REQUIRED LEACH FIELD AREA = 5x117 = 585 sf
585 sf / 7.0sf = 83.57 USE 90.0' TOTAL
INSTALL 2 - EACH FIELD LINES 45' LONG EACH AT
A MINIMUM OF 48" TRENCH DEPTH

UTILITY PROVIDERS:

THE FOLLOWING UTILITIES ARE AVAILABLE TO PROVIDE SERVICE TO THE SITE BUT CONSIDER ALL EQUIPMENT, LINES, ETC. THAT LIE INSIDE THE SITE AND OUTSIDE OF THEIR RESPECTIVE EASEMENTS TO BE THE PROPERTY OF AND THE RESPONSIBILITY OF THE OWNERS OF THE SITE:

UTILITY LOCATIONS ARE APPROXIMATE AS LOCATED BY ABOVE GROUND EVIDENCE. NO EXCAVATION WAS DONE FOR LOCATIONS. CHENEY-WALTERS-ECHOLS, INC. MAKES NO STATEMENT AS TO UNDERGROUND UTILITY LOCATIONS.

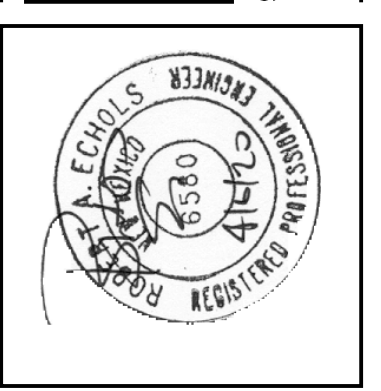
UTILITY COMPANIES THAT SERVICE THIS AREA ARE:
ELECTRIC SERVICE PROVIDED BY:
FARMINGTON ELECTRIC UTILITY SERVICE, 800 MUNICIPAL DRIVE, FARMINGTON, NEW MEXICO, 87401 : TIM HENSON 505-599-8327
WATER SERVICE PROVIDED BY:
UPPER LaPLATA WATER USERS ASSOCIATION
No. 10 ROAD 1330, LaPLATA, NEW MEXICO
(505) 326-1751 (CONTACT DWIGHT JAMES)
SOLID WASTE DISPOSAL PROVIDED BY:
WASTE MANAGEMENT OF FOUR CORNERS, 101 SPRUCE STREET, FARMINGTON, NEW MEXICO : 1-866-897-4705.
TELEPHONE SERVICE PROVIDED BY:
CENTURYLINK : LAURENCE JOE 505-409-8042



DATE	REVISION	BY

CHENEY-WALTERS-ECHOLS
ENGINEERS - SURVEYORS

909 W. APACHE FARMINGTON, NEW MEXICO 87401 • (505) 327-3303
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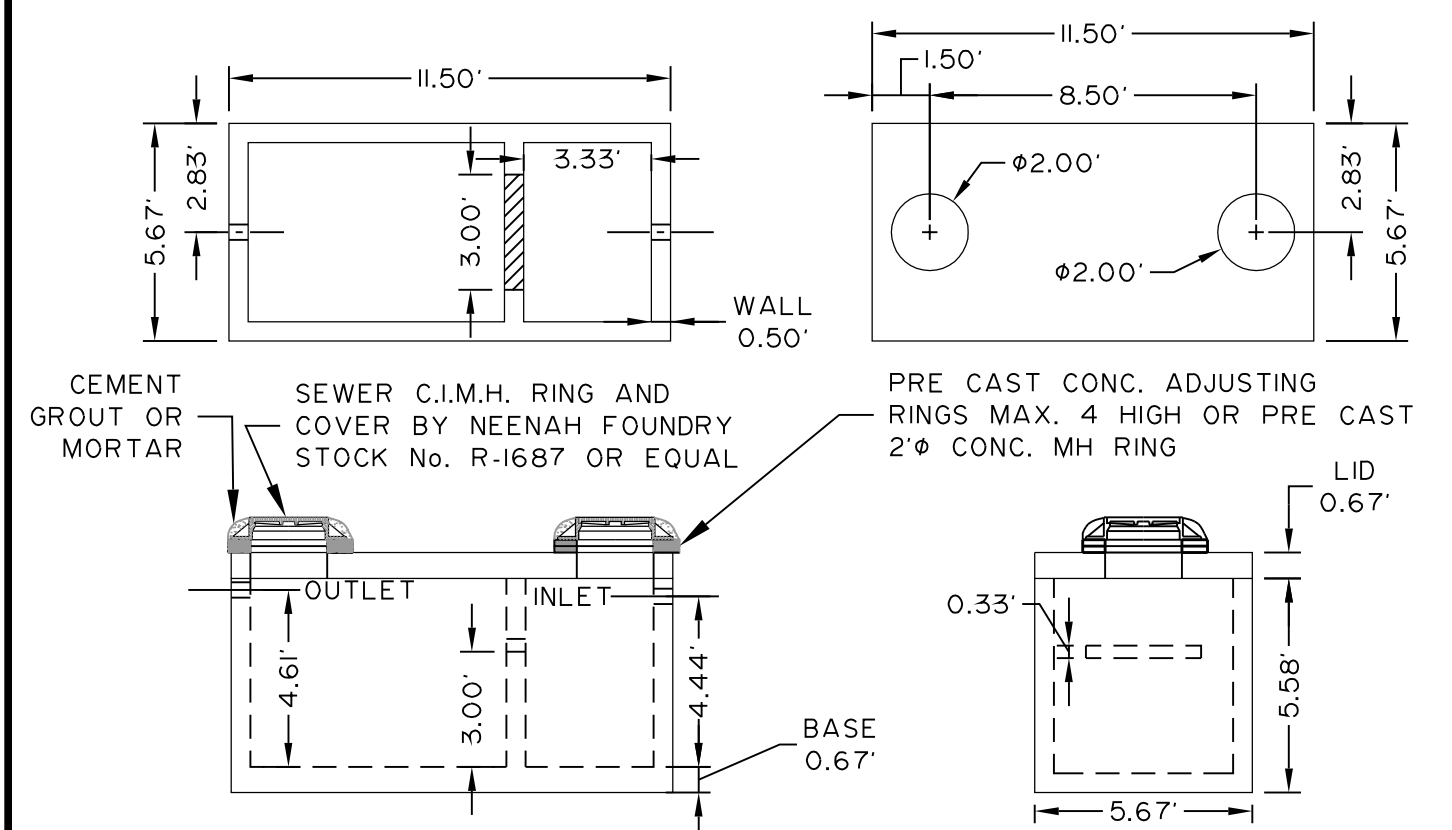


UTILITY PLAN
FIRE STATION EXPANSION

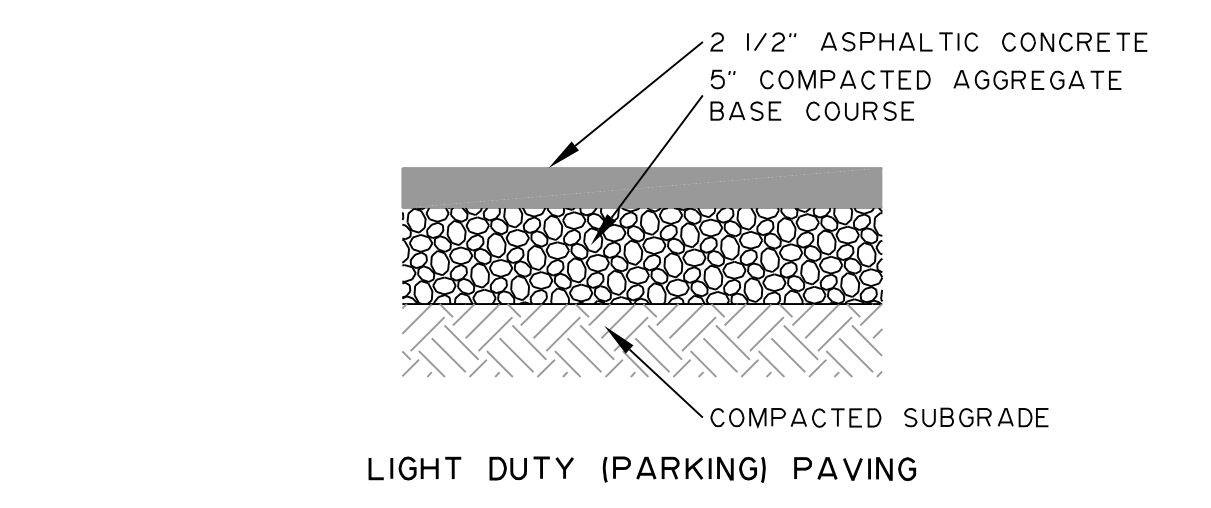
LaPLATA FIRE STATION DISTRICT No. 4
LaPLATA NEW MEXICO

DATE: 04/01/2020
DRAWN BY: HWS
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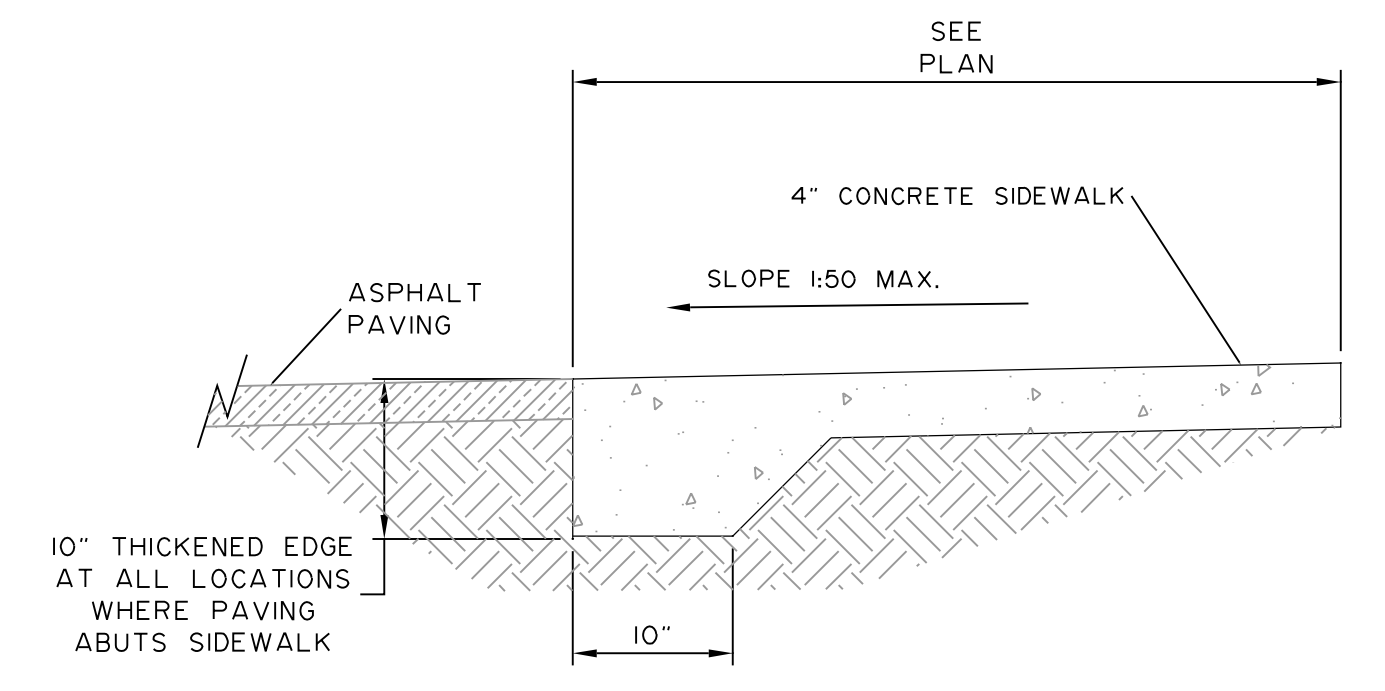
NOTE: INSTALL POLYLOK A100-12 FILTER ON OUTLET IN TANK BY ZABEL FILTERS OR EQUAL.



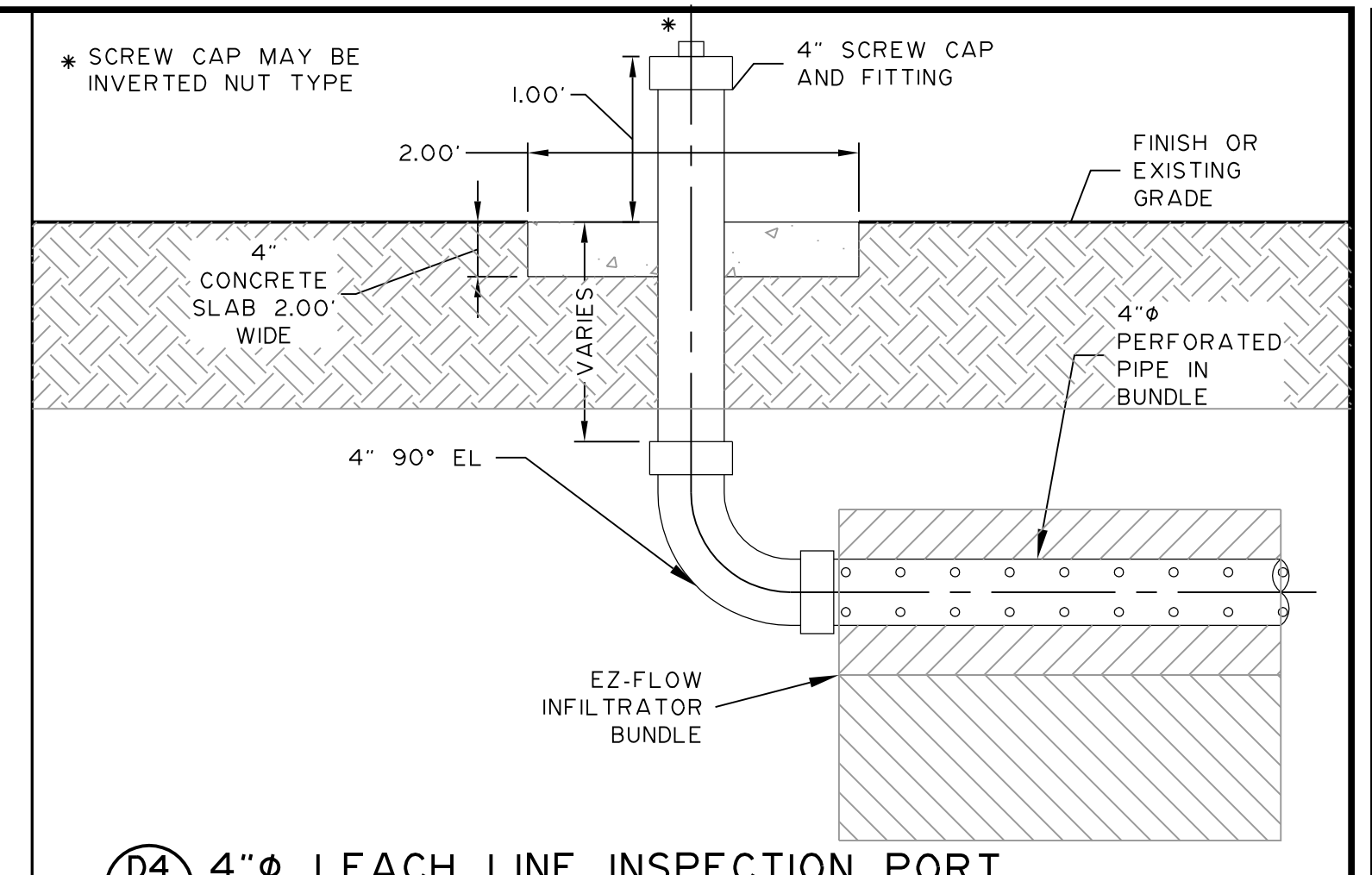
D1 1500 GALLON CONCRETE SEPTIC TANK
C-4 SCALE 1" = 5'



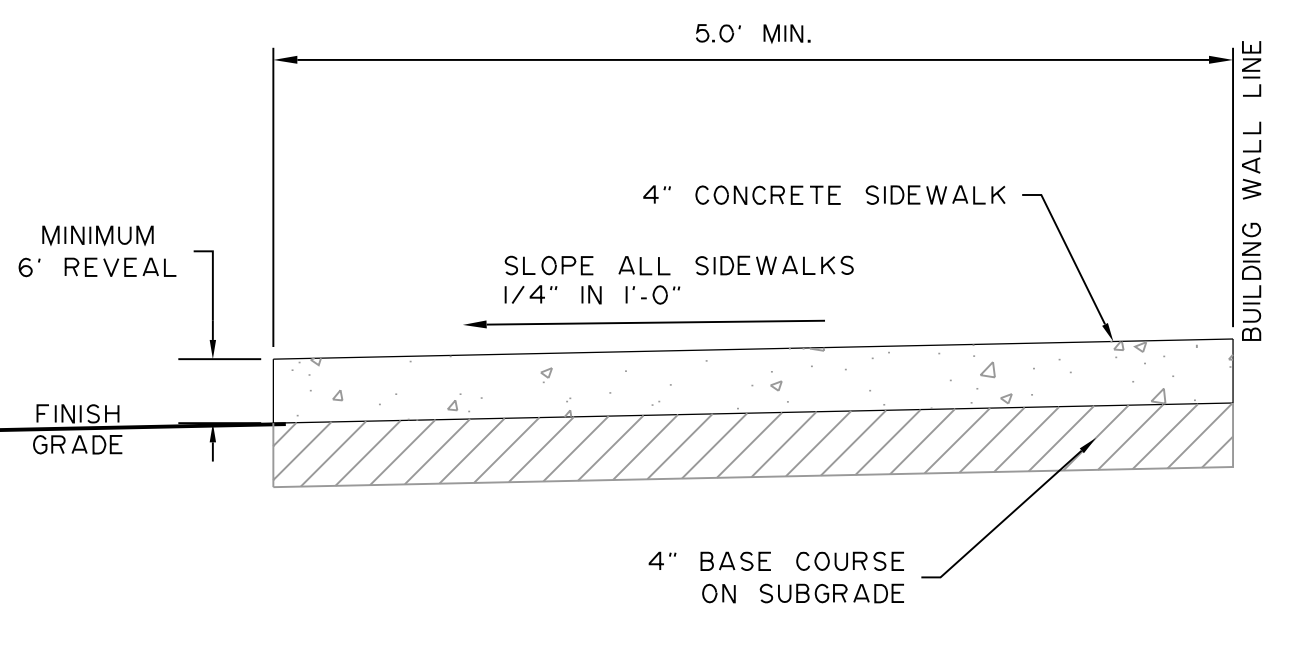
D2 ASPHALT PAVING SECTION
C-4 NOT TO SCALE



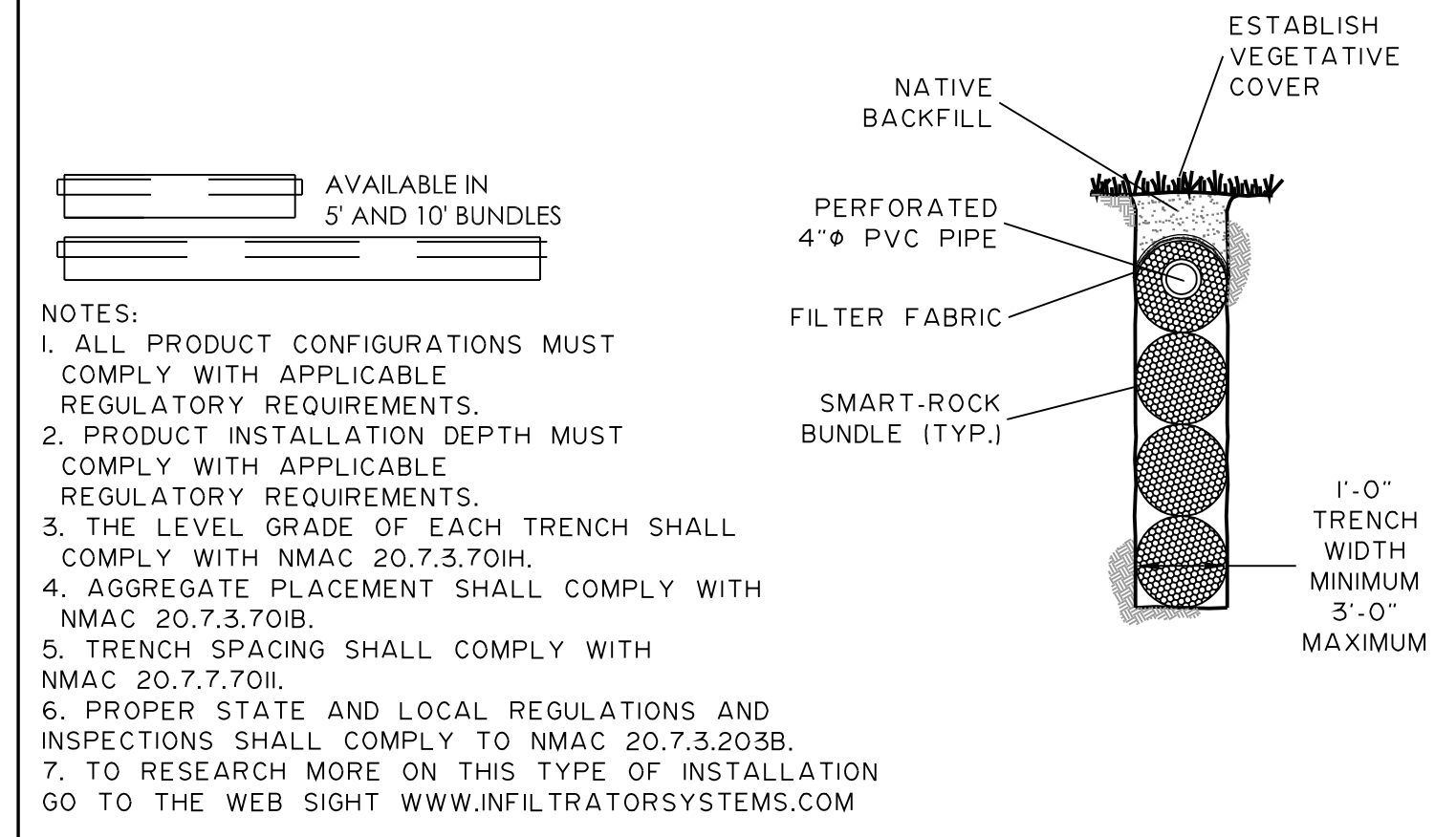
D3 SIDEWALK DETAIL (NO CURB NO REVEAL)
C-4 SCALE: 1" = 1'-0"



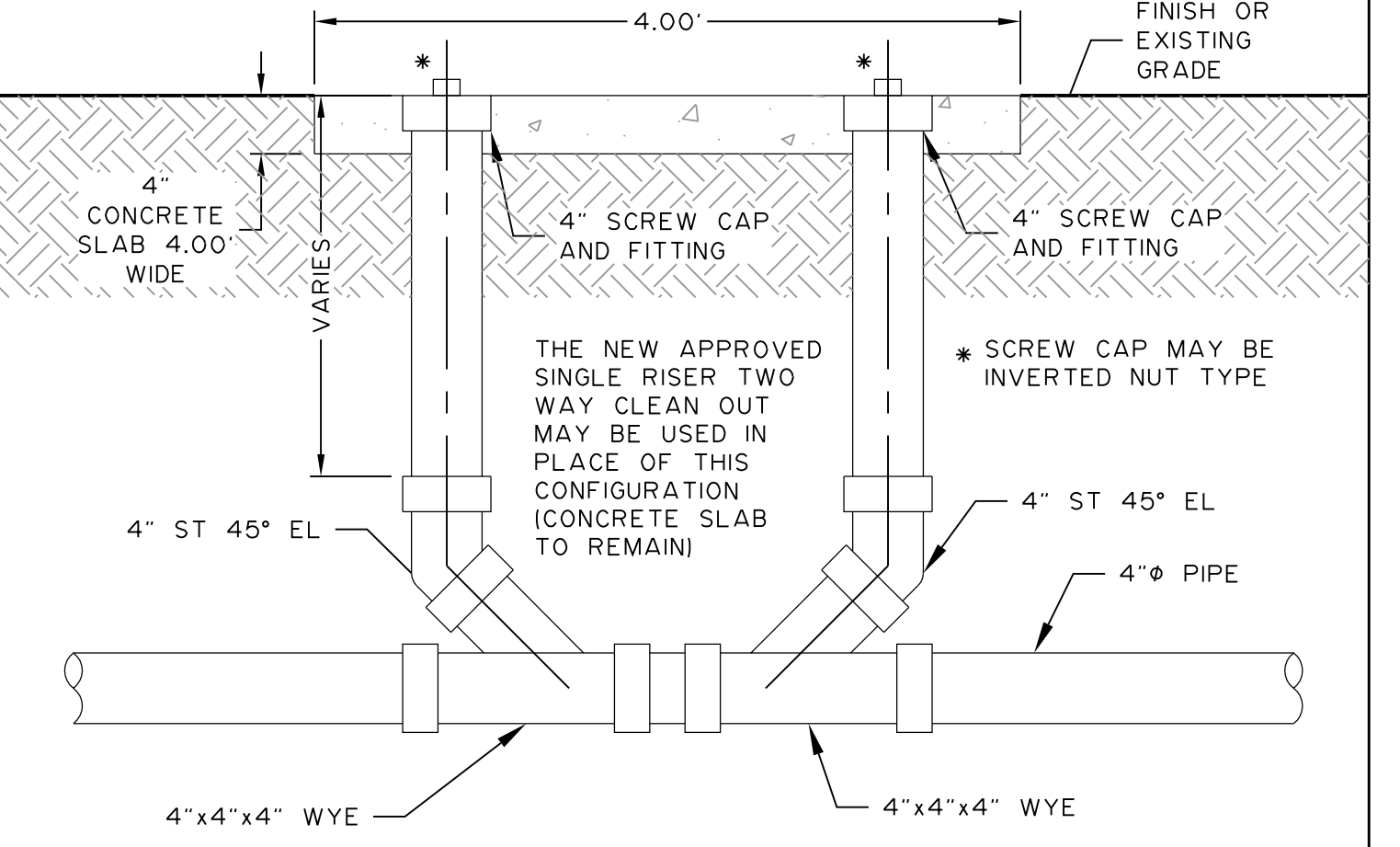
D4 4" ϕ LEACH LINE INSPECTION PORT
C-4 SCALE 1" = 1'



D5 BUILDING PERIMETER SIDEWALK DETAIL
C-4 SCALE: 1" = 1'-0"



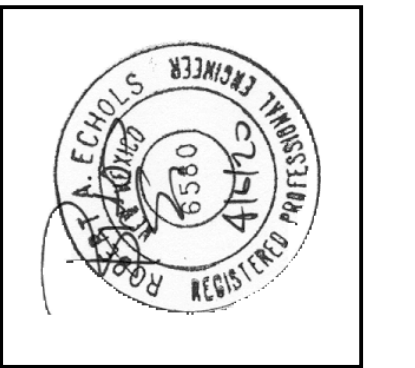
D6 INFILTRATOR SMART-ROCK EZ FLOW I204V DETAIL
C-4 SCALE 1/2" = 1'



D7 4" TWO WAY CLEAN OUT ON 4" ϕ SEWER LINE
C-4 SCALE 1" = 1'

BY	
DATE	
REVISION	

CHENEY WALTERS ECHOLS
ENGINEERS SURVEYORS
 909 W. APACHE • FARMINGTON, NEW MEXICO 87401 • (505) 327-3303
 FILE: D:\DWG\HWS\2020\20127\20127SET-031820.dwg

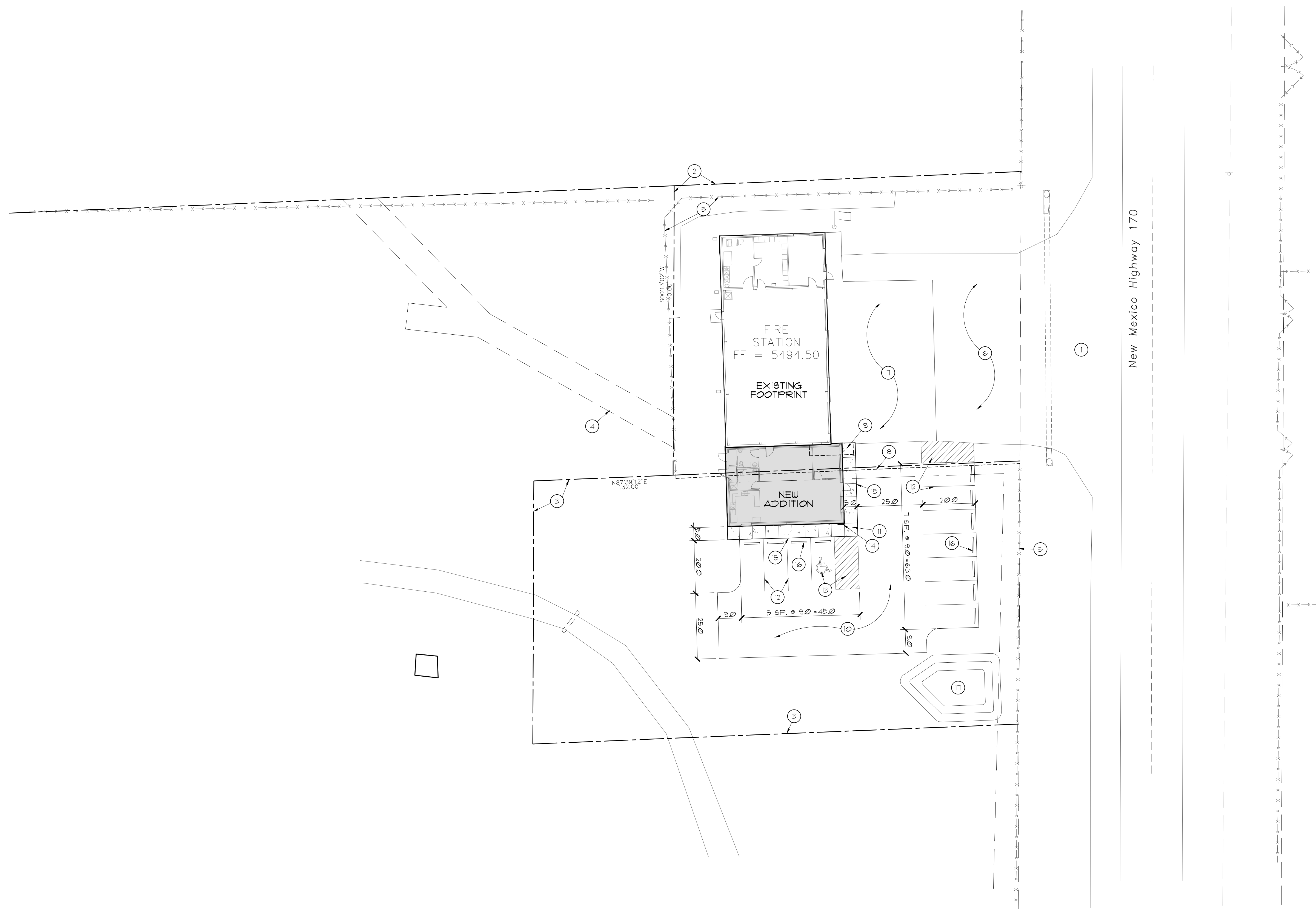


CONSTRUCTION DETAILS
 FIRE STATION EXPANSION
 LaPLATA FIRE STATION DISTRICT No. 4
 LaPLATA NEW MEXICO

DATE: 04/01/2020
 DRAWN BY: HWS
 PROJ. 20127
 SCALE: NOTED
 FILE: 20127SET-031820
 SHEET
 C-4
 OF
 4

**SITE PLAN
KEYED NOTES**

- ① EXISTING HIGHWAY ACCESS
- ② EXISTING PROPERTY LINE
- ③ NEW PROPERTY LINE - SEE CIVIL
- ④ EXISTING EASEMENT LINE
- ⑤ EXISTING CHAIN LINK FENCING TO REMAIN
- ⑥ EXISTING ASPHALT PAVING TO REMAIN
- ⑦ EXISTING CONCRETE APRON TO REMAIN
- ⑧ REMOVE EXISTING CHAIN LINK FENCING
- ⑨ REMOVE EXISTING CONCRETE SIDEWALK
- ⑩ NEW ASPHALT PAVING-SEE CIVIL
- ⑪ NEW CONCRETE SIDEWALK - SEE
- ⑫ NEW 4" WHITE TRAFFIC STRIPING
- ⑬ HANDICAP PARKING SYMBOL & "NO PARKING" STRIPING TO BE BLUE TRAFFIC PAINT-NOTE: SLOPE THIS AREA NOT TO EXCEED 2% SLOPE
- ⑭ NEW HANDICAP PARKING SIGN
- ⑮ TOP OF ASPHALT TO MATCH TOP OF CONCRETE SIDEWALK, TYP.
- ⑯ PROVIDE 6' LONG PRECAST CONCRETE PARKING BUMPERS, TYP.
- ⑰ DETENTION POND - SEE CIVIL



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



04.13.20



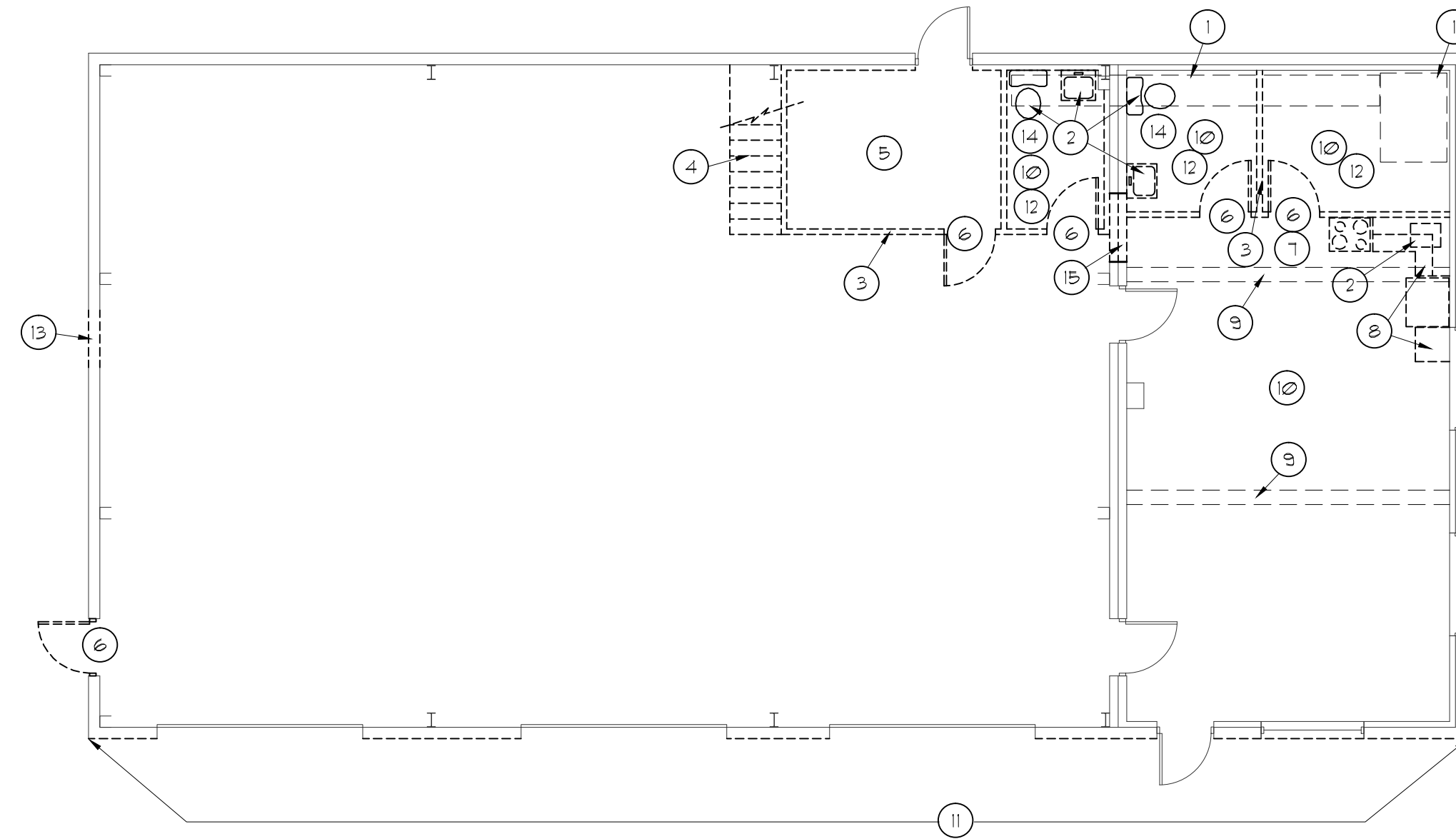
**RODAHL & HUMMELL
ARCHITECTURE, P.C.**

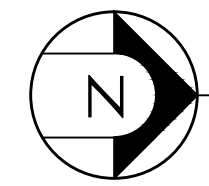
609 North Dustin
Farmington, NM 87401
Phone: (505) 326-6442

LA PLATA FIRESTATION #2 SAN JUAN COUNTY		Filename: 0920_SITE
		Project: 190920
SITE PLAN		Sheet: A0
Drawn: BTW	Checked: TEH	Date: 04.13..20 Of: 0

DEMOLITION PLAN
KEYED NOTES

- 1 REMOVE PORTION OF EXISTING CONCRETE SLAB TO ALLOW FOR NEW SEWER LINE AND ALSO FOR REQUIRED 12" THICK SLAB AT NEW GEAR WASHER LOCATION.
- 2 REMOVE EXISTING PLUMBING FIXTURES COMPLETELY. REFER TO PLUMBING PLANS FOR MORE INFORMATION.
- 3 REMOVE EXISTING FRAME PARTITIONS COMPLETELY.
- 4 REMOVE EXISTING WOOD FRAMED STAIRS COMPLETELY.
- 5 REMOVE EXISTING 2ND LEVEL FLOOR FRAMING AND WALLS COMPLETELY.
- 6 REMOVE EXISTING DOOR/FRAME COMPLETELY.
- 7 SALVAGE COMBINATION LOCK FROM THIS DOOR FOR REUSE.
- 8 REMOVE EXISTING MILLWORK AND APPLIANCES. SALVAGE APPLIANCES TO OWNER.
- 9 REMOVE PORTION OF EXISTING ACOUSTICAL TILE CEILING TO ALLOW FOR CONSTRUCTION OF NEW PARTITION.
- 10 REMOVE EXISTING FLOORING (COMBINATION OF TILE/CARPETING) AND BASE IN RESTROOMS/OFFICE.
- 11 REMOVE EXISTING EXTERIOR METAL SIDING TO ALLOW FOR INSTALLATION OF NEW INSULATED WALLS PANELS. REMOVE /RELOCATE DOORS/WINDOWS AND EXTERIOR MOUNTED LIGHTING AND ACCESSORIES AS REQUIRED FOR INSTALLATION OF NEW PANELS.
- 12 REMOVE EXISTING CEILING COMPLETELY.
- 13 REMOVE PORTION OF EXTERIOR WALL TO ALLOW FOR INSTALLATION OF NEW DOOR/FRAME.
- 14 REMOVE EXISTING TOILET ACCESSORIES, GRAB BARS, MIRRORS, ETC.
- 15 REMOVE PORTION OF EXISTING WALL TO ALLOW FOR INSTALLATION OF NEW DOOR/FRAME.



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



04.13.20



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ARCHITECTURE, P.C.

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LA PLATA
FIRESTATION # 2
FARMINGTON, NM

Filename:
0920_DEMO

Project:
190920

Sheet:
A1

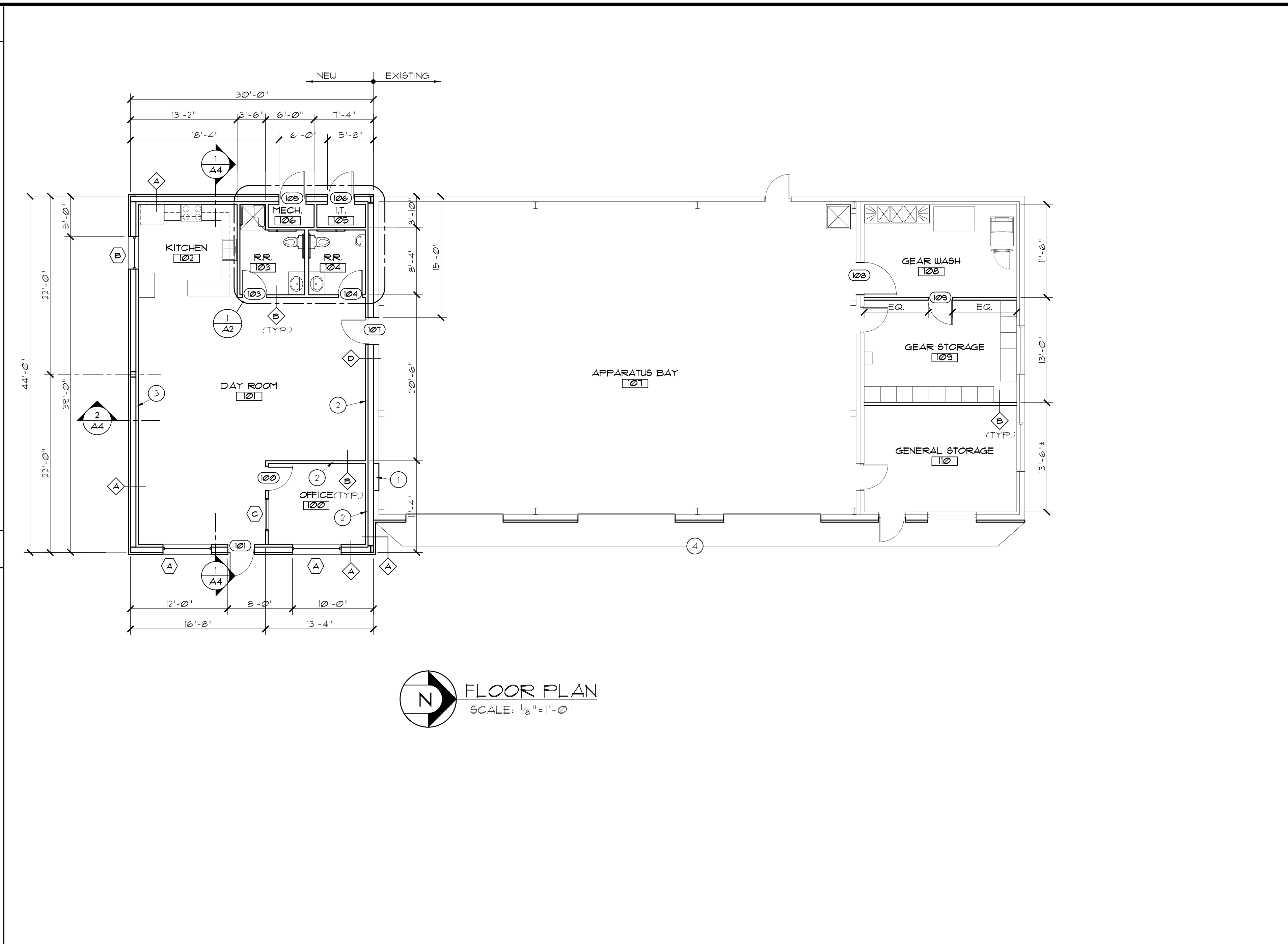
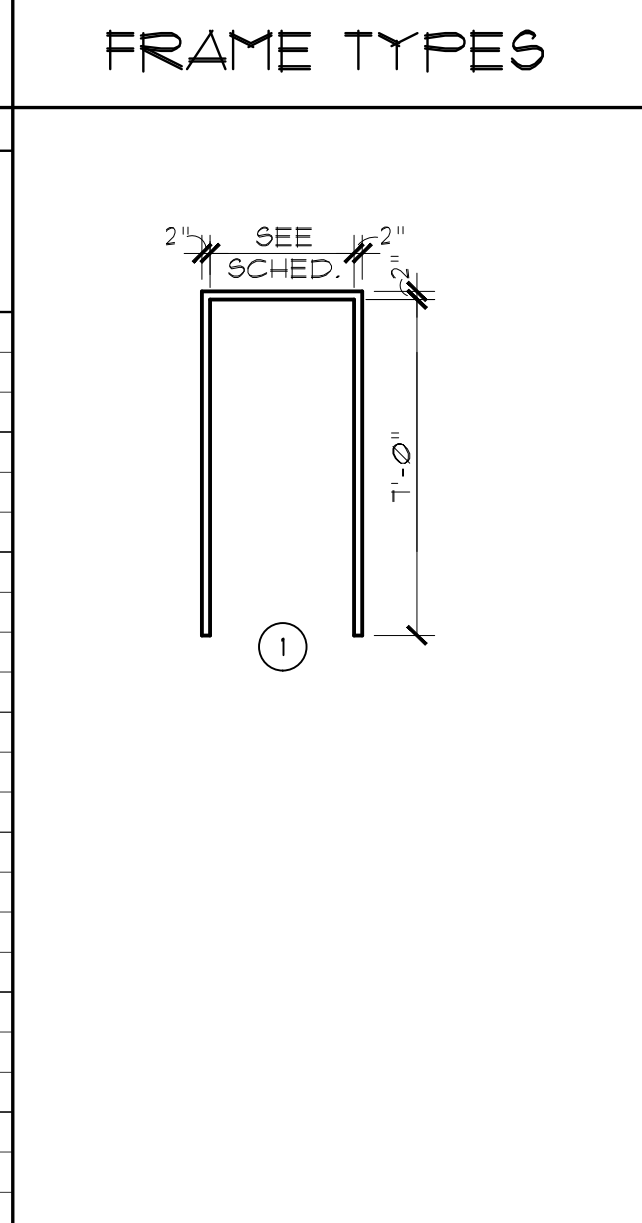
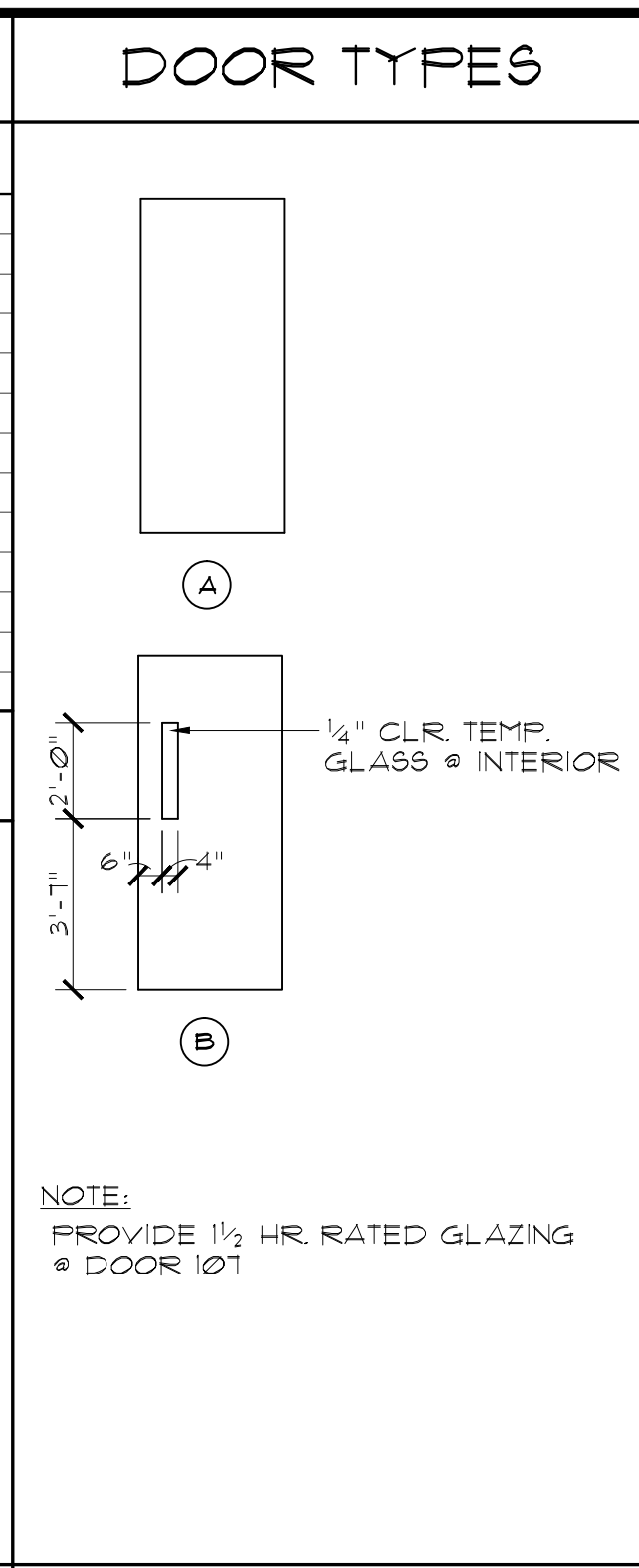
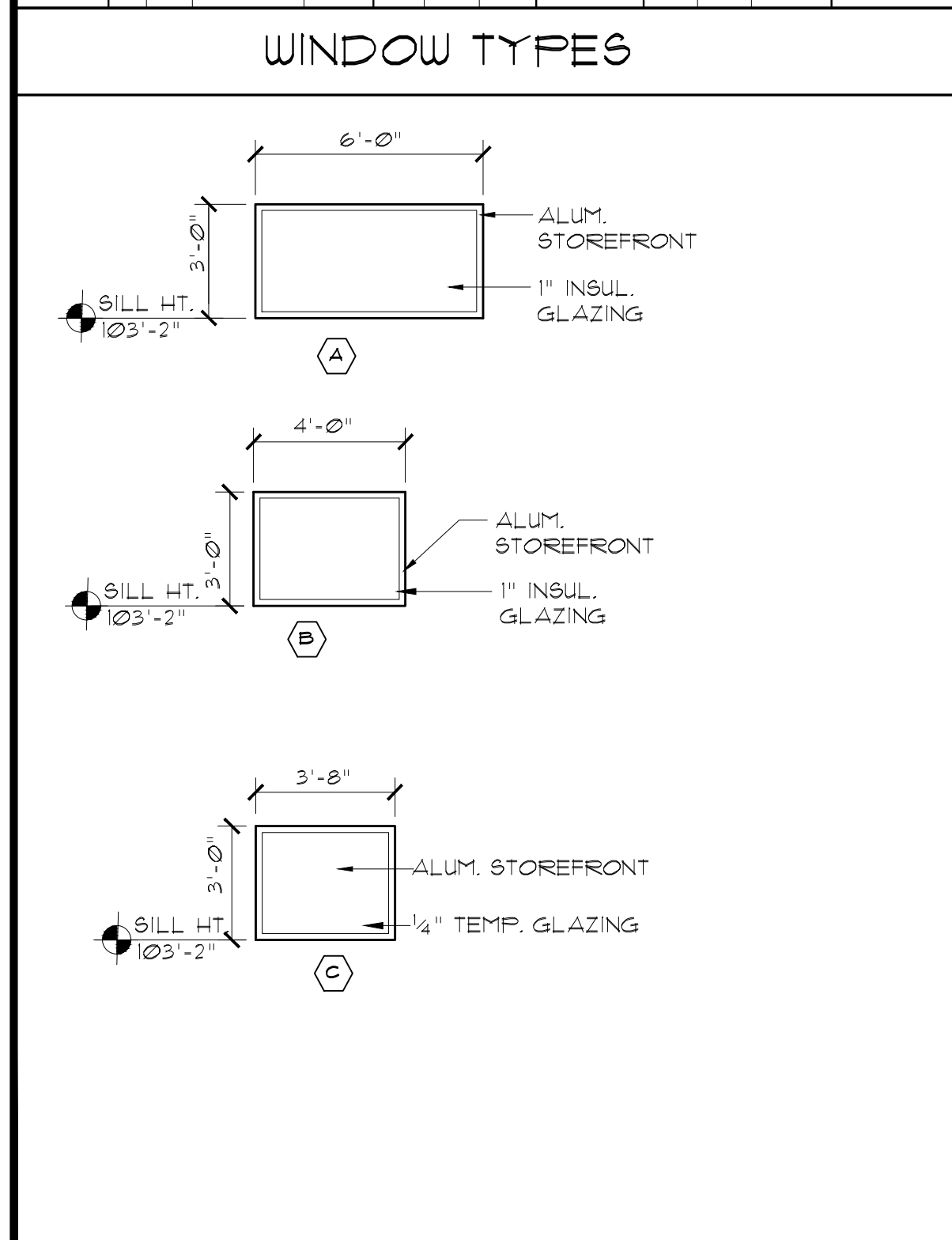
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Date: 04.13.20

Of: 0

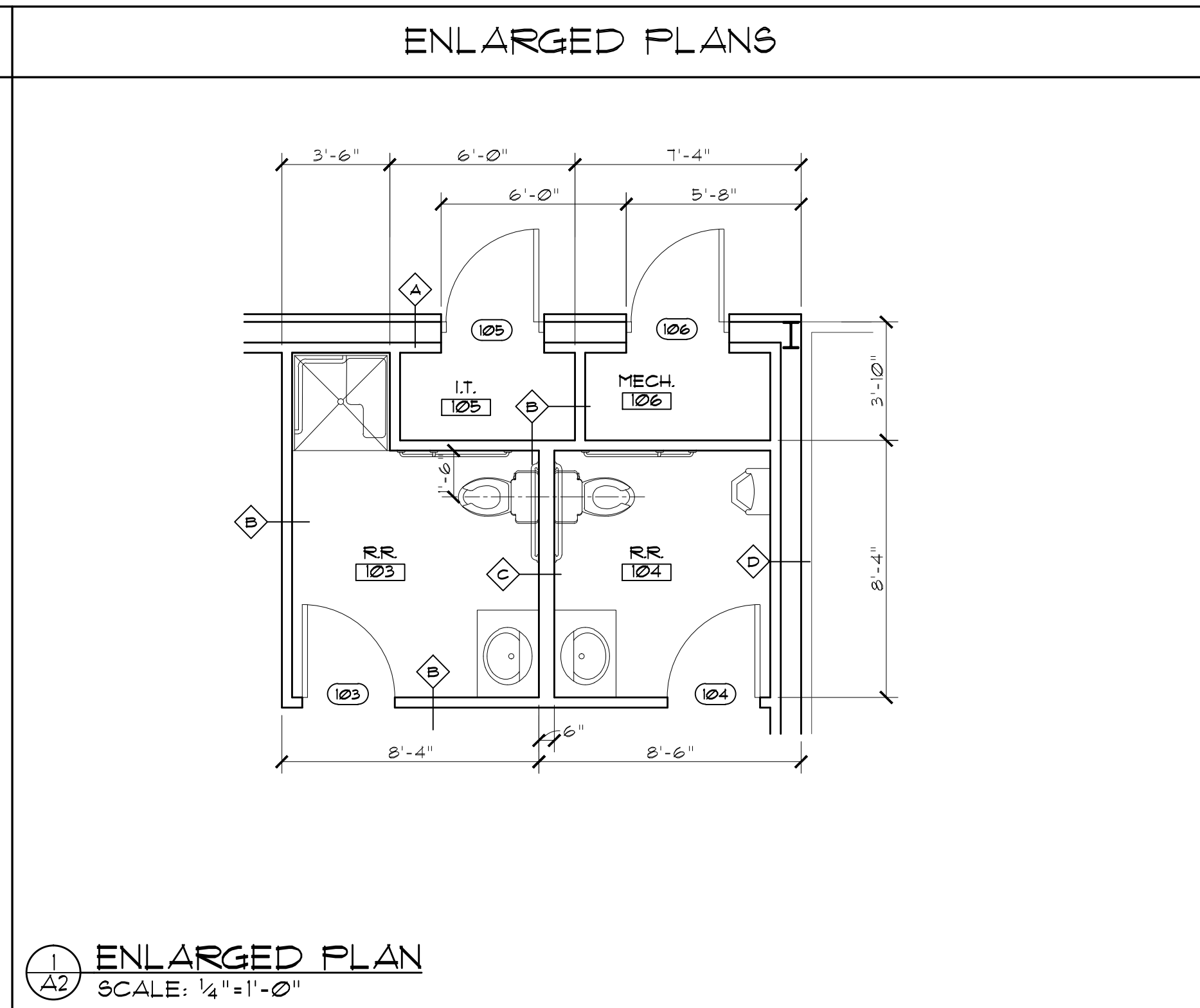
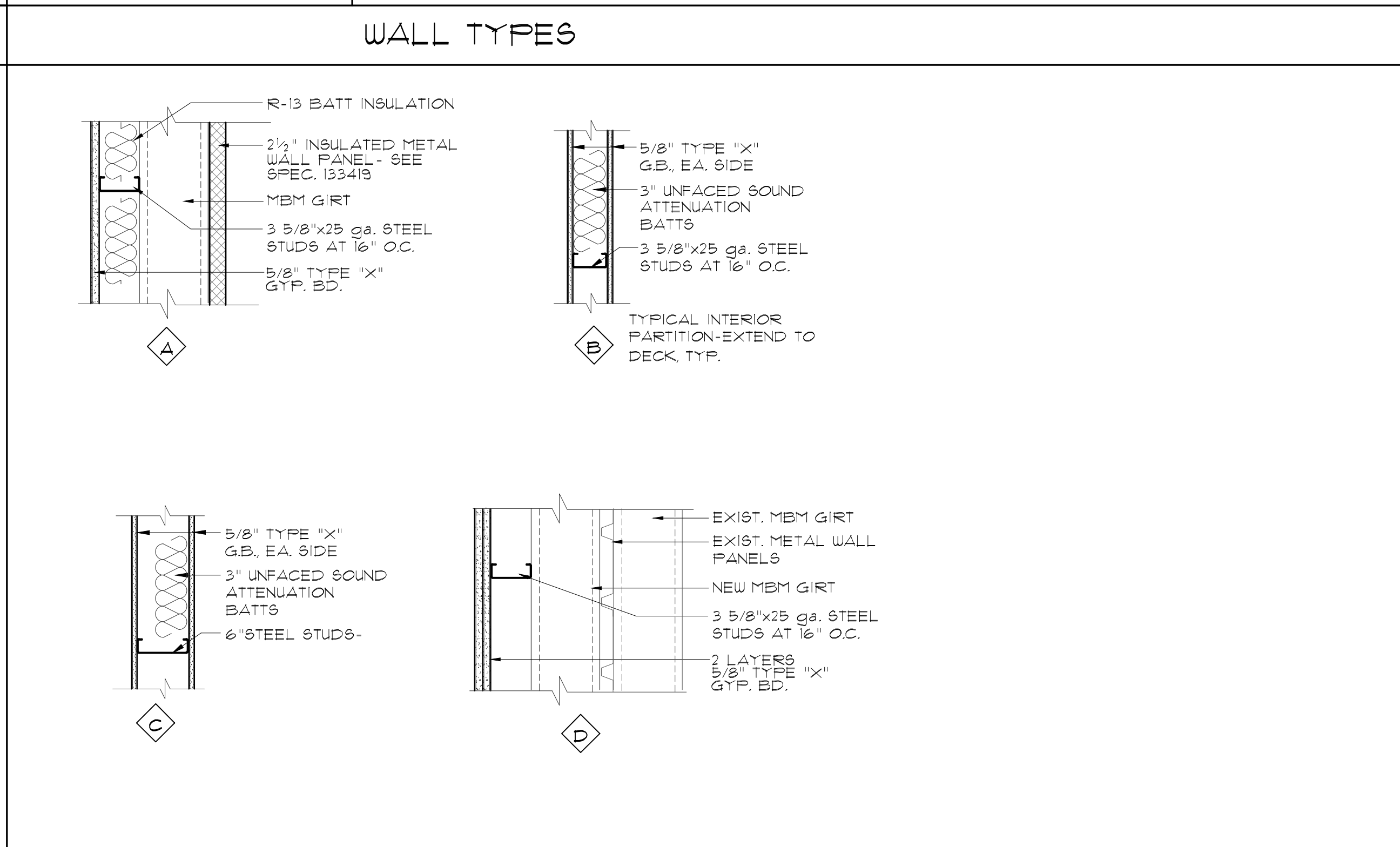
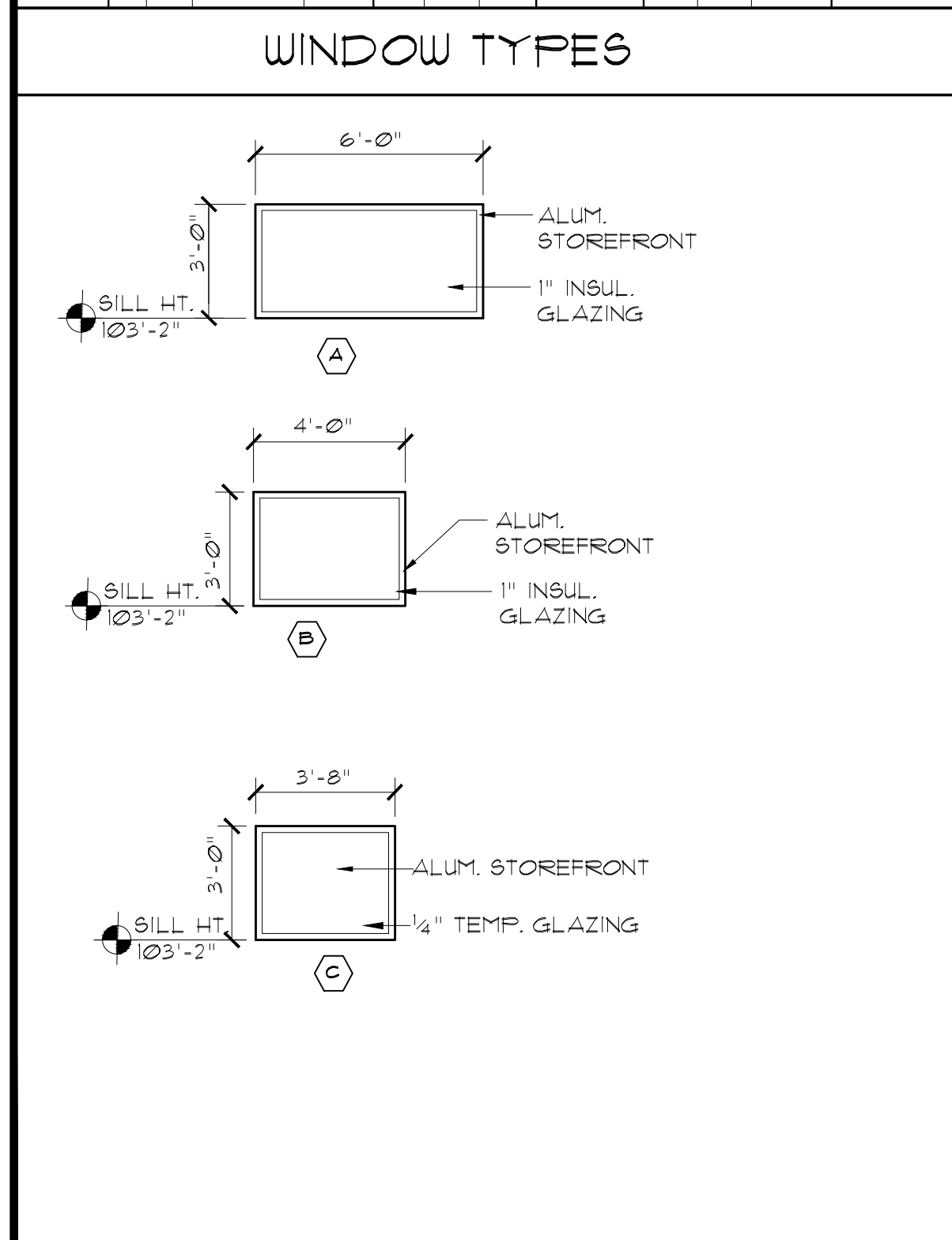
RM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING	CLG. HT.
100	OFFICE	F-1	B-1	W-1	C-1	8'-0"
101	DAY ROOM	F-1	B-1	W-1	C-1	9'-0"
102	KITCHEN	F-1	B-1	W-1	C-1	9'-0"
103	RESTROOM	F-1	B-1	W-1	C-1	8'-0"
104	RESTROOM	F-1	B-1	W-1	C-1	8'-0"
105	I.T.	F-2	B-1	W-1	C-2	...
106	MECHANICAL	F-2	B-1	W-1	C-2	...
107	APP. BAY	F-2	---	W-2	C-2	...
108	GEAR WASH	F-2	B-1	W-1	C-2	...
109	GEAR STORAGE	F-2	B-1	W-1	EXIST	8'-0"
110	GEN. STORAGE	F-2	B-1	W-1	EXIST	8'-0"

FINISH MATERIAL KEY	
FLOORS	WALLS
F-2: SEALED CONCRETE	W-1: 5/8" GYP. BD. PAINTED
F-1: VINYL PLANK	W-2: EXISTING LINER PANEL
BASE	CEILING
B-1: 4" VINYL COVE. SEE SPEC.	C-1: 2'x4' ACOUSTICAL TILE. SEE SPEC.
	C-2: EXPOSED STRUCTURE

DOOR SCHEDULE										
NO.	DOORS			FRAMES		DETAILS		MISC.		NOTES
	TYPE	FINISH	HT.	TYPE	FINISH	1	2	3	4	
100	A	UD	3'-0"	T-0	H			X		
101	A	UD	3'-0"	T-0	H			X		
103	A	UD	3'-0"	T-0	H			X		
104	A	UD	3'-0"	T-0	H			X		
105	A	UD	3'-0"	T-0	H			X		
106	A	UD	3'-0"	T-0	H			X		
107	B	UD	3'-0"	T-0	H			X		30MIN
108	A	UD	3'-0"	T-0	H			X		
109	A	UD	3'-0"	T-0	H			X		



- ### FLOOR PLAN KEYED NOTES
- INFILL OPENING WITH CONSTRUCTION TO MATCH EXISTING.
 - INSTALL 2x8 CONTINUOUS BLOCKING @ 3'-0" 4 1'-0"
 - INSTALL 2x8 CONTINUOUS BLOCKING @ 3'-0" 4 1'-0" ON , AND AT ELECTRICAL OUTLETS MOUNTED @ 84" 4 96" (TYP. OF 3 LOCATIONS)
 - NEW INSULATED METAL WALL PANELS TO BE INSTALLED OVER EXISTING METAL BUILDING GIRTS. SEE SPEC. 133419



04.13.20

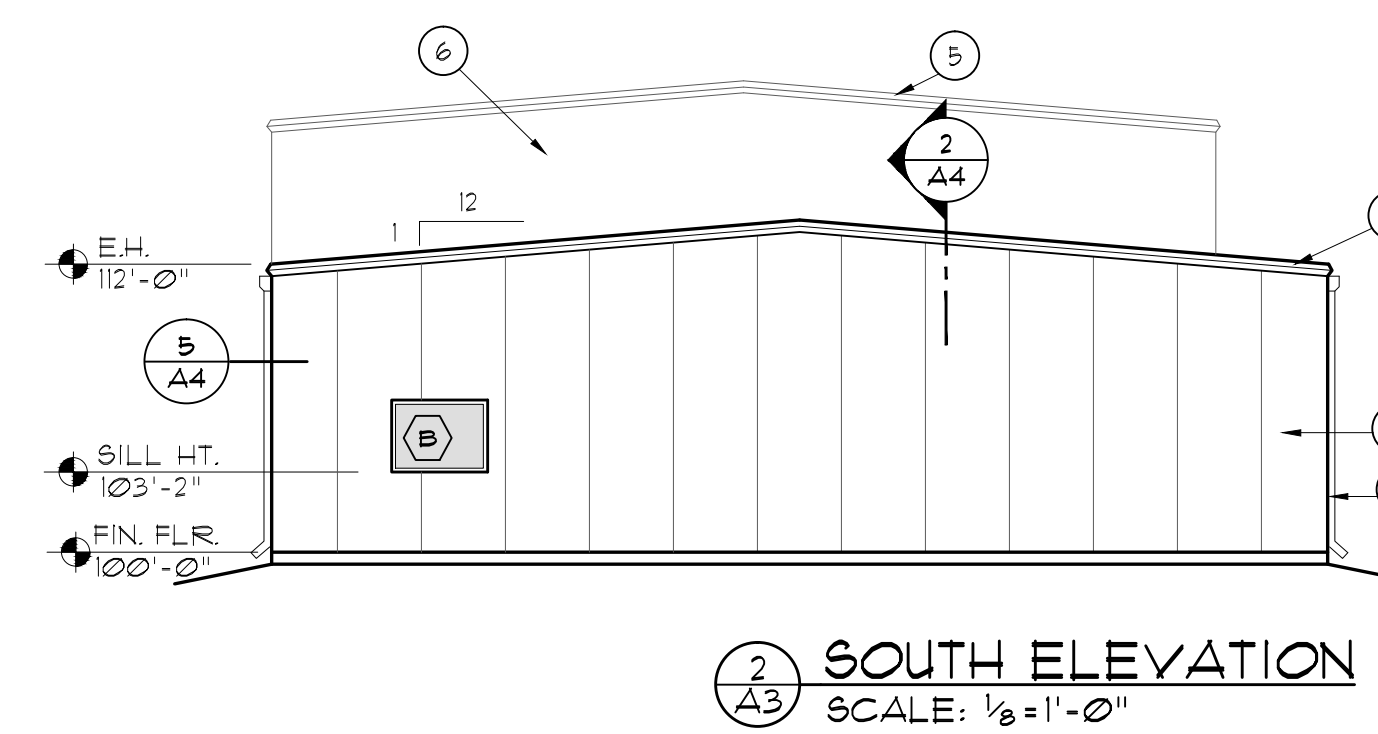
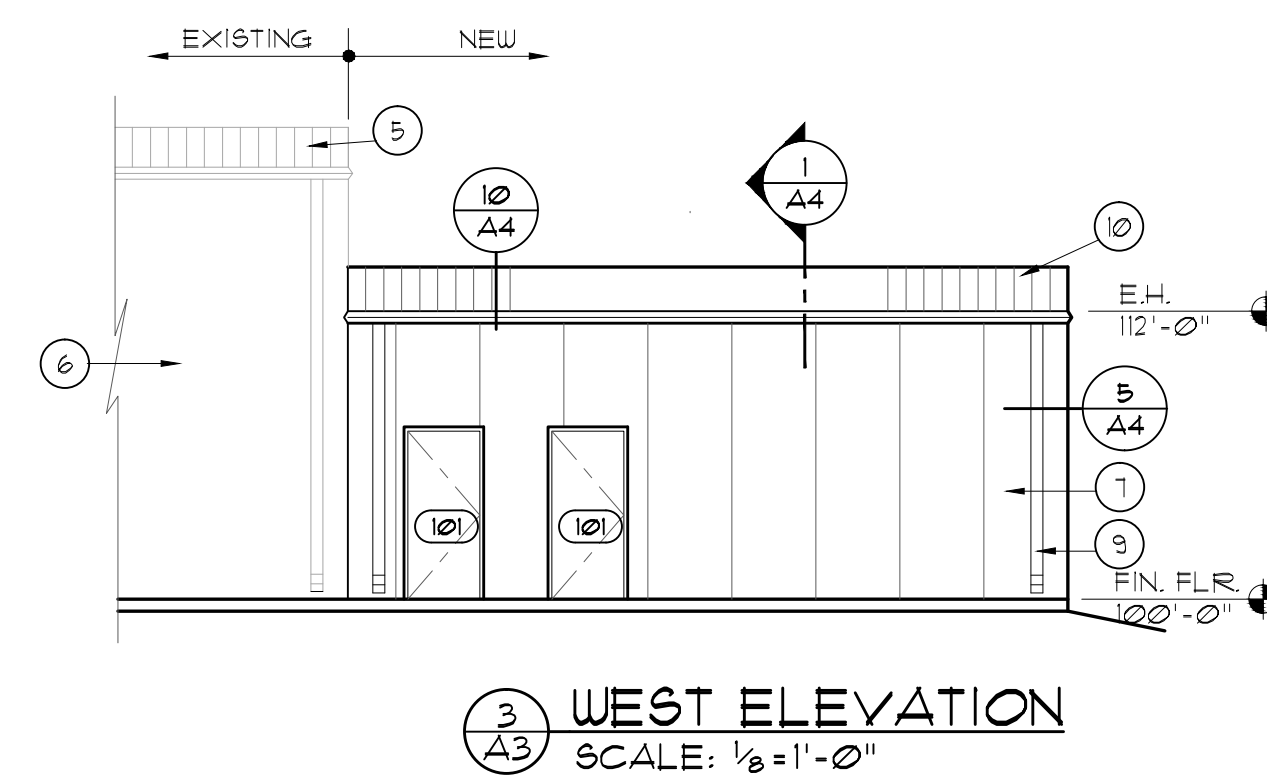
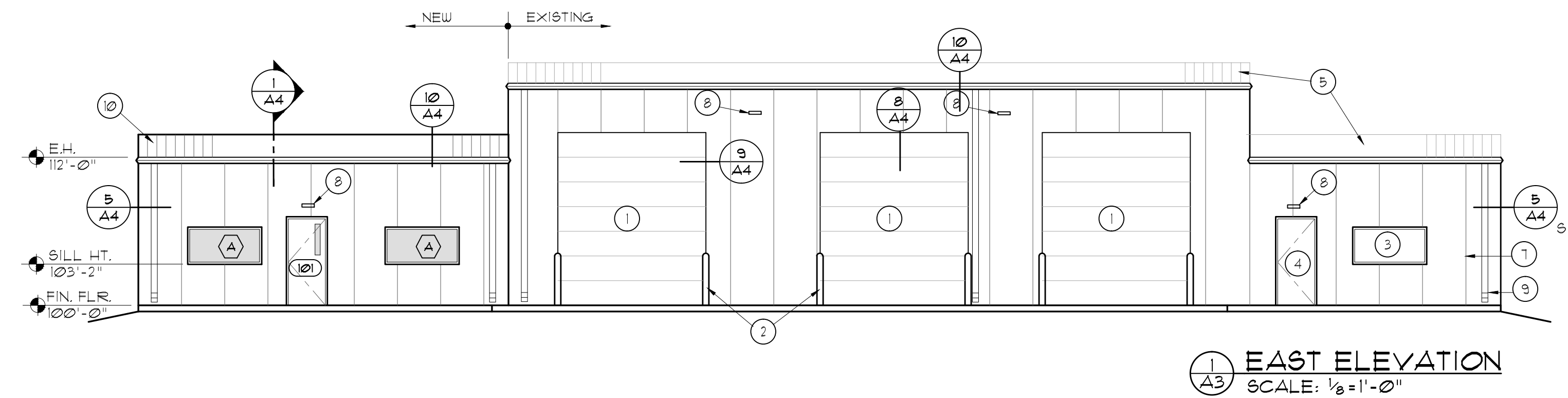
RODAHL & HUMMELL ARCHITECTURE, P.C.

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LA PLATA FIRESTATION #2 FARMINGTON, NM		Filename: 0920_FLOOR
FLOOR PLAN		Project: 190920
Drawn: BTW		Sheet: A2
Checked: TEH		Of: 0
Date: 04.13.20		

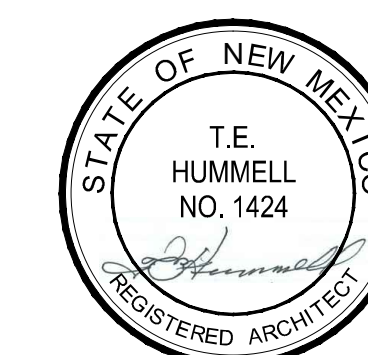
KEYED NOTES

- 1 EXISTING OVERHEAD SECTIONAL DOOR TO REMAIN
- 2 EXISTING STEEL PIPE BOLLARDS, PAINT
- 3 EXISTING WINDOW TO REMAIN
- 4 EXISTING DOOR TO REMAIN
- 5 EXISTING ROOF PANELS TO REMAIN
- 6 EXISTING METAL WALL PANELS TO REMAIN
- 7 NEW INSULATED METAL WALL PANELS, SEE SPEC. 133419
- 8 WALL MOUNTED LIGHT FIXTURE, TYP. -SEE ELECT
- 9 NEW GUTTERS & DOWNSPOUTS, TYP., PROVIDE CONCRETE FLASHBLOCKS AT WEST SIDE
- 10 PREFINISHED 24ga METAL ROOFING PANELS-SEE SPEC.



GENERAL NOTES

- A. ROOF PANELS ARE ALLIANCE STEEL BUILDING KYNAR LIGHT STONE BK
- B. INSULATED METAL WALL PANELS ARE BUTLER ADOBE II



04.13.20



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LA PLATA
FIRESTATION #2
FARMINGTON, NM

Filename:
0920_ELV

Project:
190920

BUILDING ELEVATIONS

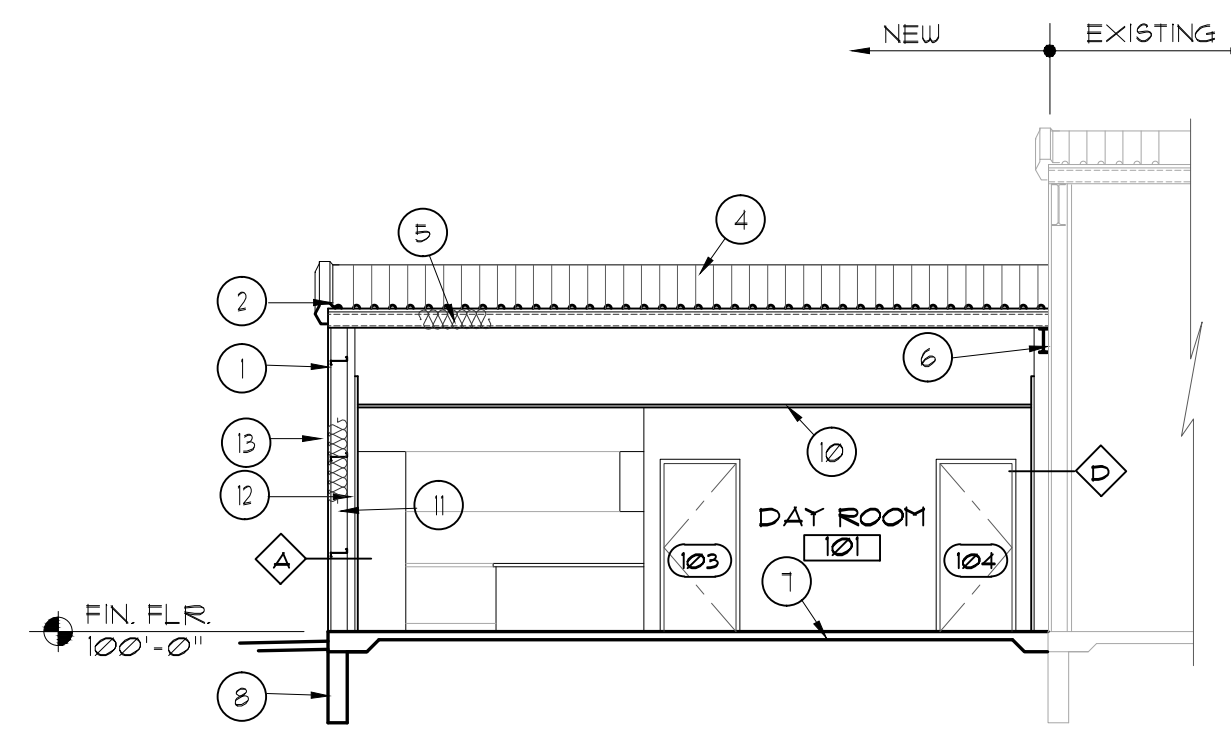
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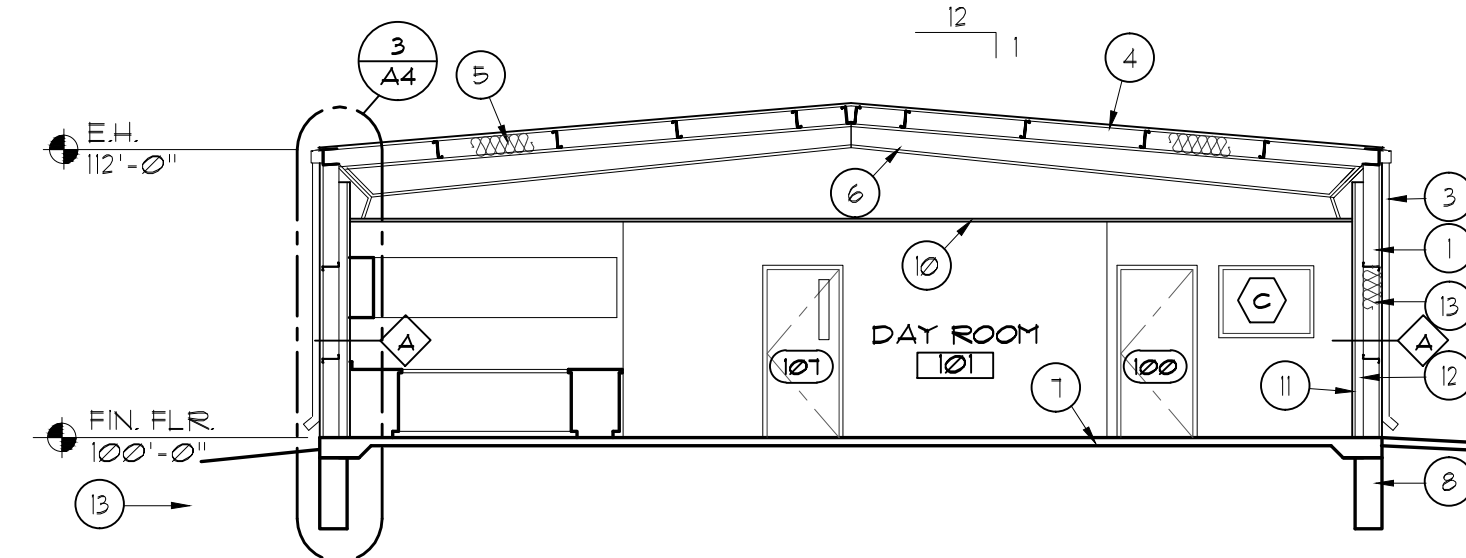
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KEYED NOTES

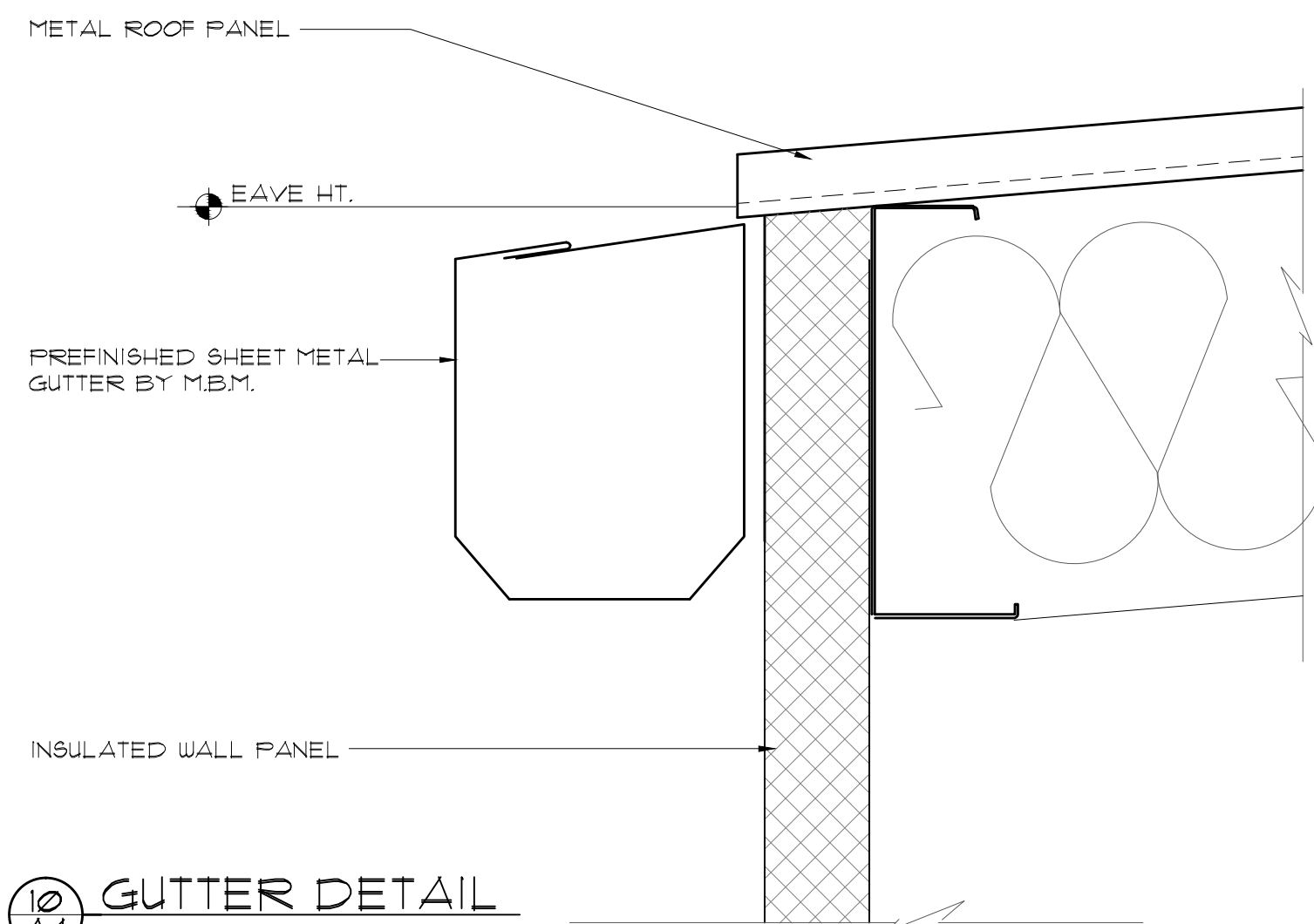
- 1 INSULATED METAL WALL PANELS- SEE SPEC. 133-419
- 2 NEW METAL BUILDING TRIM
- 3 NEW GUTTERS & DOWNSPOUTS
- 4 NEW PREFINISHED 24ga. METAL ROOFING PANELS
- 5 R-30 VINYL FACED INSULATION
- 6 RIGID FRAME BEYOND BY M.B.M.
- 7 NEW CONC. SLAB-SEE STRUCTURAL DRAWINGS.
- 8 CONCRETE FOOTING-SEE FOUNDATION PLAN.
- 9 CAULK CONTINUOUS
- 10 ACOUSTICAL TILE CEILING, SEE SPEC 095113
- 11 5/8" GYP. BD.
- 12 STEEL STUD FRAMING
- 13 R-13 BATT INSULATION
- 14
- 15
- 16



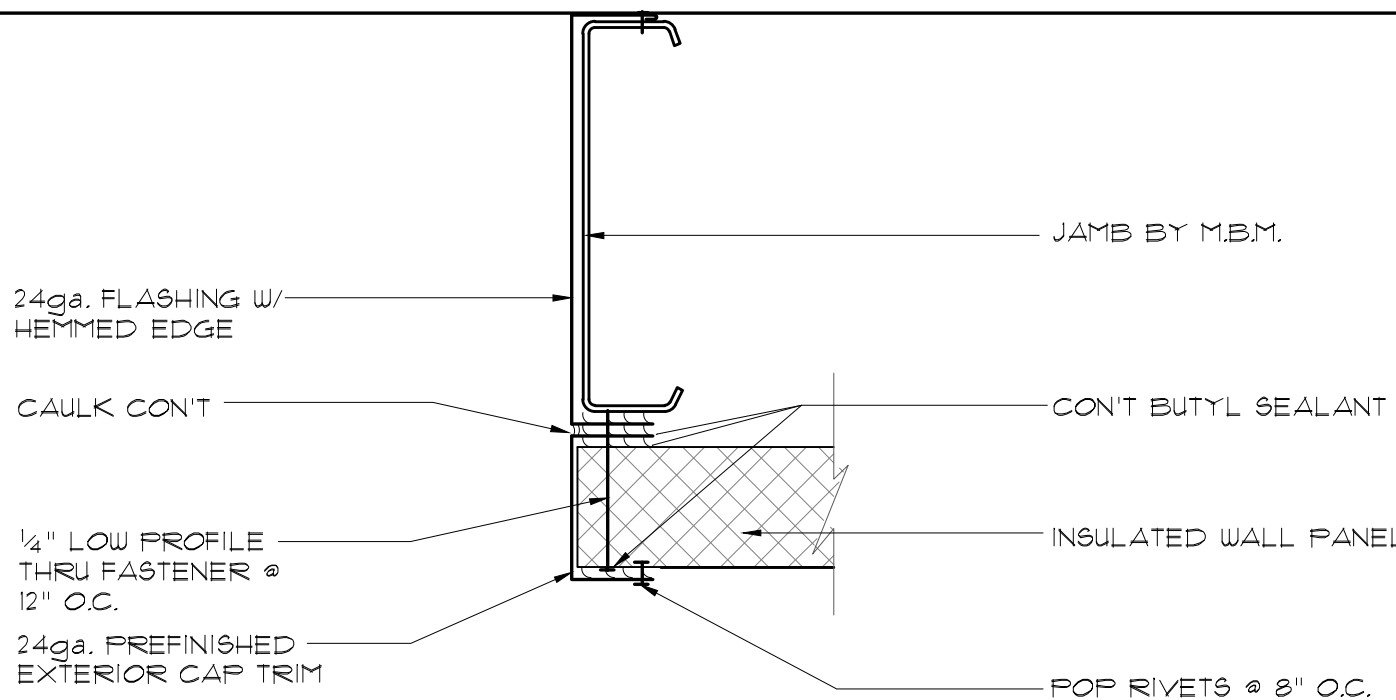
2 BUILDING SECTION
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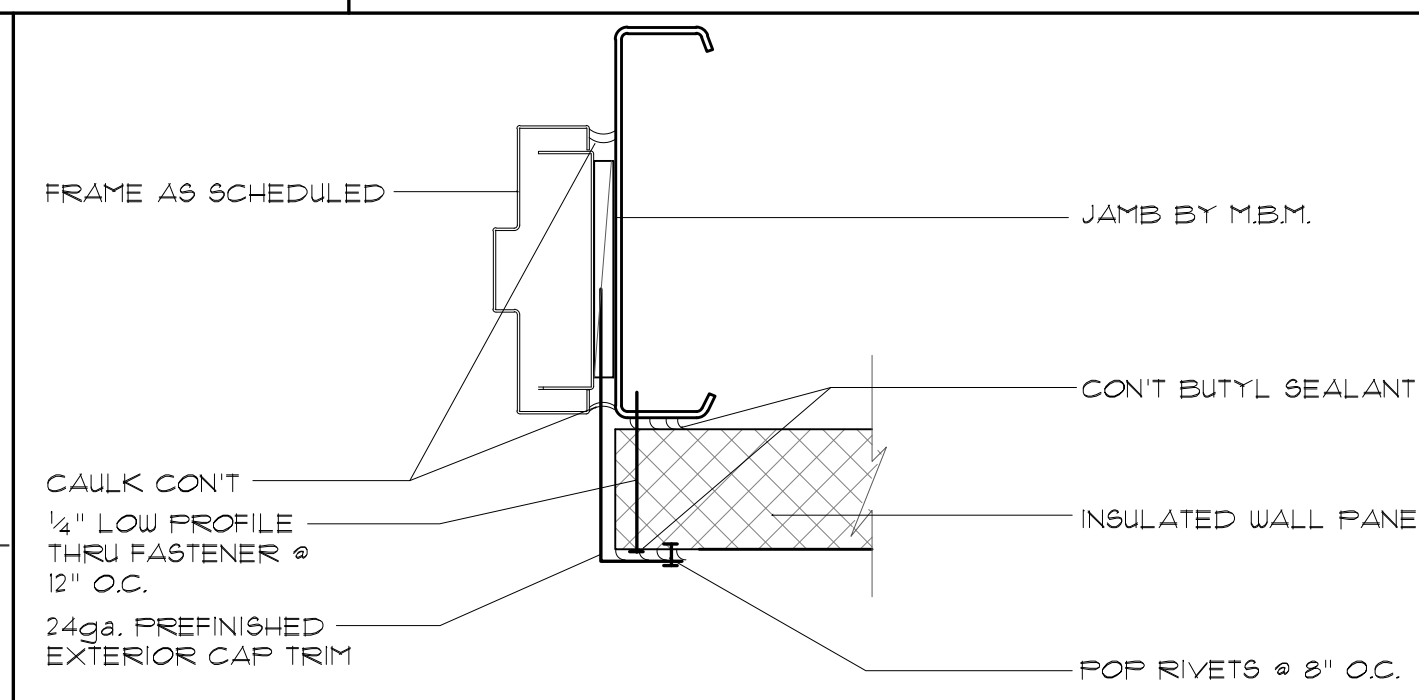
1 BUILDING SECTION
SCALE: 1/8"=1'-0"



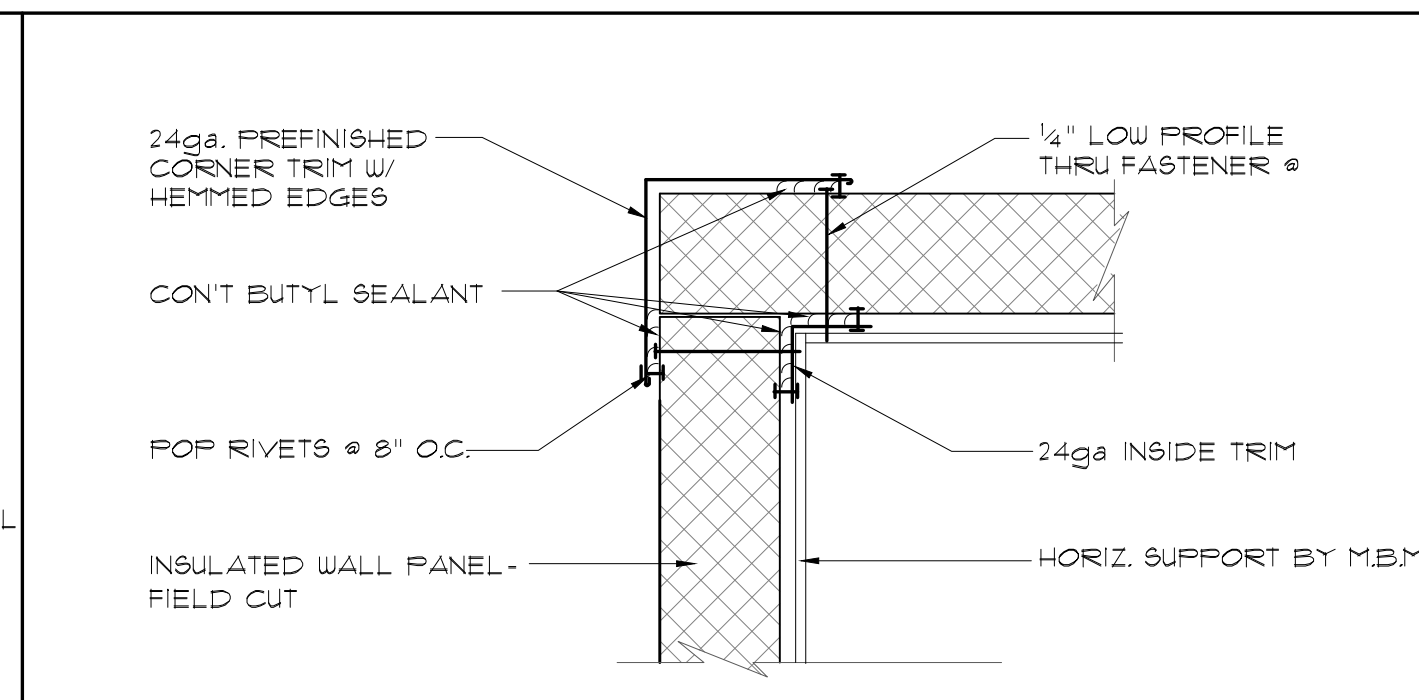
10 GUTTER DETAIL
SCALE: 3/4"=1'-0"



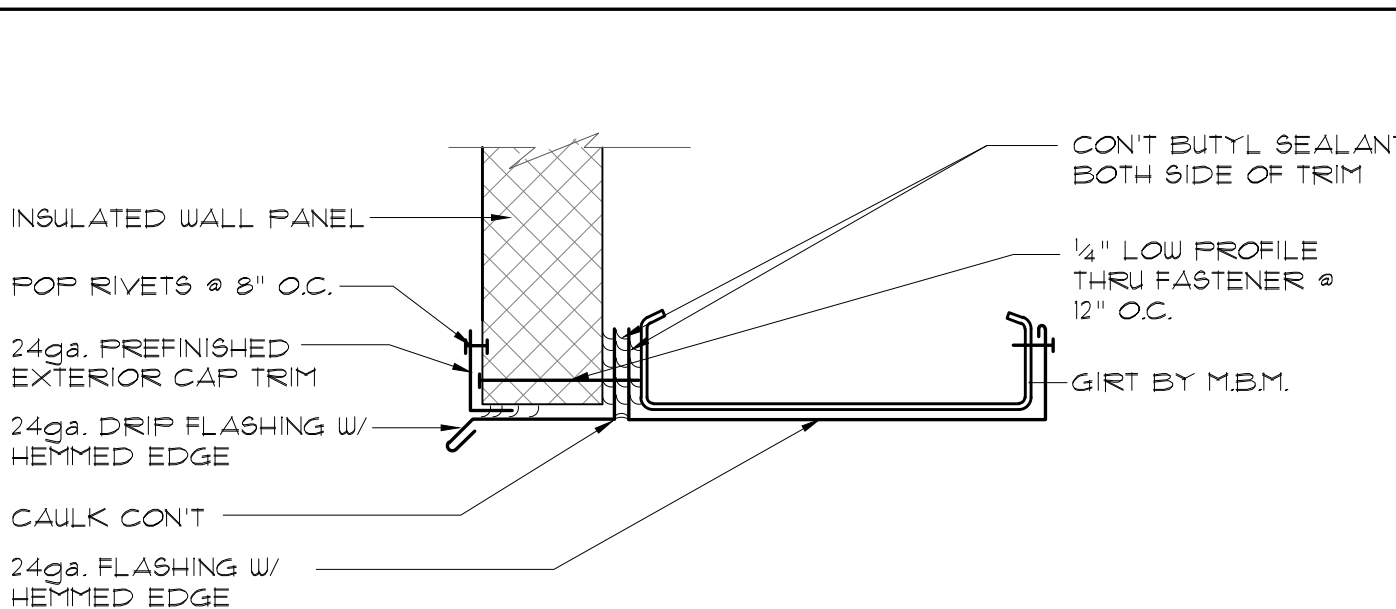
9 OVERHEAD DOOR JAMB
SCALE: 3/4"=1'-0"



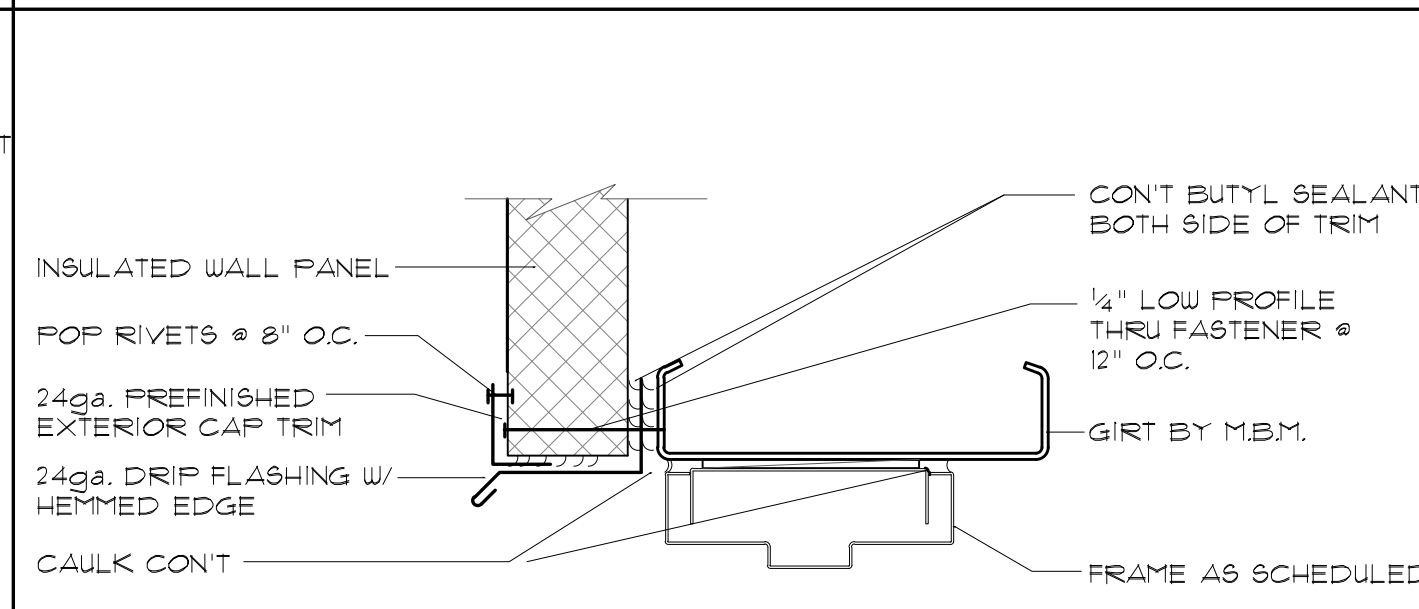
7 TYP. DOOR JAMB
SCALE: 3/4"=1'-0"



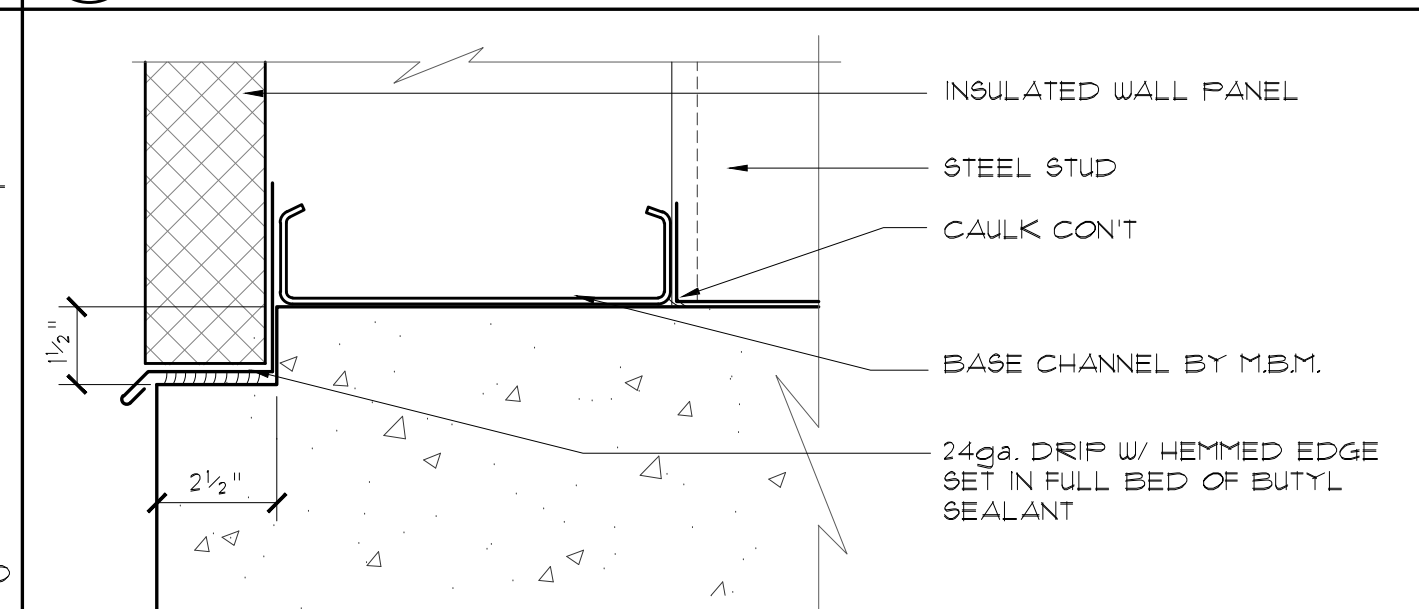
5 TYP. OUTSIDE CORNER
SCALE: 3/4"=1'-0"



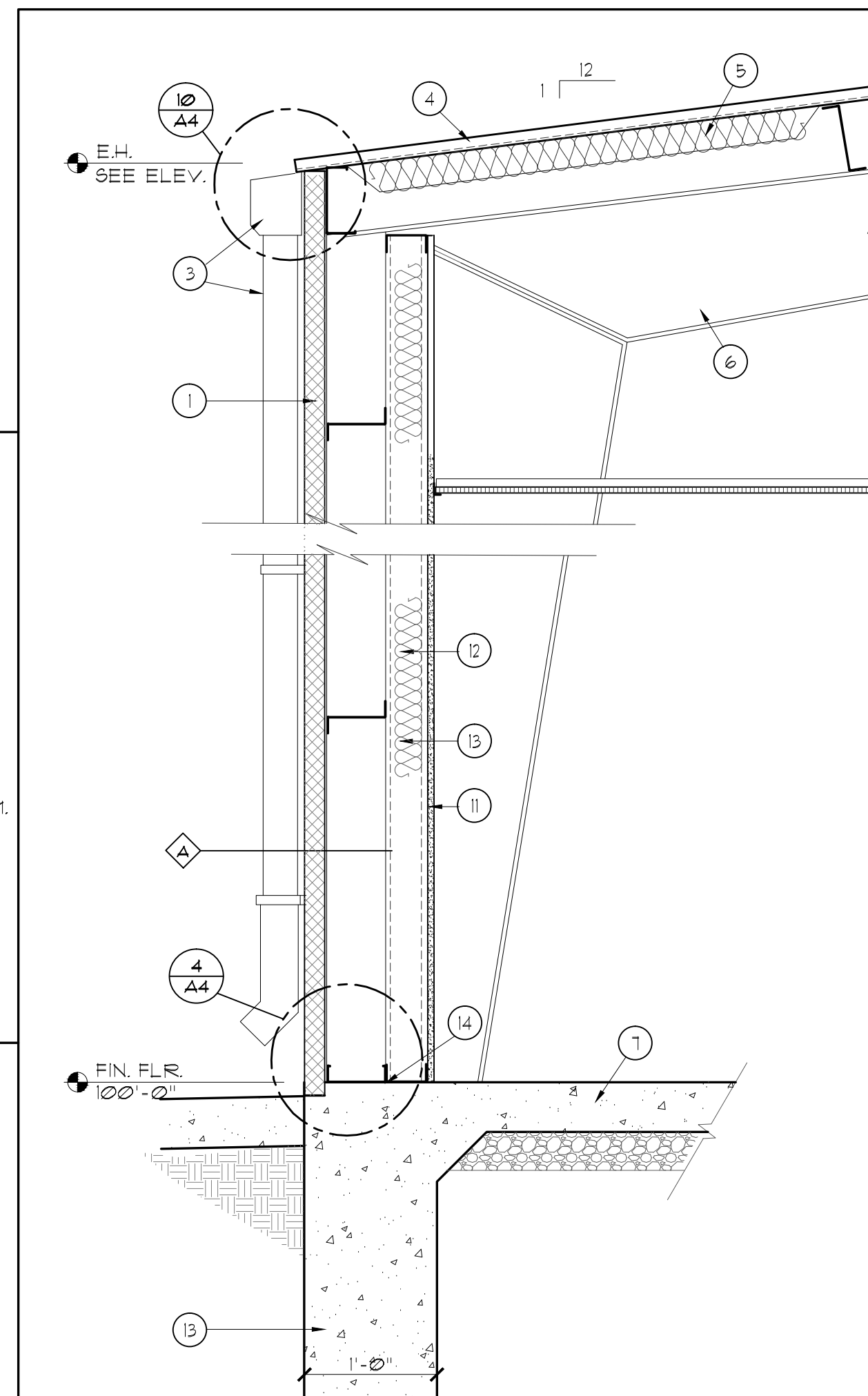
8 TYP. OVERHEAD DOOR HEAD
SCALE: 3/4"=1'-0"



6 TYP. DOOR HEAD
SCALE: 3/4"=1'-0"



4 DETAIL @ BASE
SCALE: 3/4"=1'-0"



3 TYP. WALL SECTION
SCALE: 3/4"=1'-0"



04.13.20



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LA PLATA FIRESTATION #2 FARMINGTON, NM

BUILDING SECTIONS/DETAILS
Drawn: BTW | Checked: TEH | Date: 04.13.20

Filename: 0920_ELV
Project: 190920
Sheet: **A4**
Of: 0

EQUIPMENT SCHEDULE

- ▽ GRAB BARS- BOBRICK 550-36 AT REAR, 550-42 AT SIDE & 550-19 VERTICALLY AT SIDE
- ▽ TOILET PAPER HOLDER- OWNER PROVIDED, CONTRACTOR INSTALLED
- ▽ MIRROR- BOBRICK B-290-2430
- ▽ SOAP DISPENSER- BOBRICK B-2111
- ▽ PREMANUFACTURED SHOWER- SEE MECH
- ▽ SHOWER ROD & CURTAIN- BOBRICK B-201 AND 204-2, WITH 1-204-1
- ▽ ROBE HOOK- BOBRICK B6101
- ▽ TOWEL BAR- BOBRICK B330-24"
- ▽ PAPER TOWEL DISPENSER- OWNER PROVIDED, CONTRACTOR INSTALLED
- ▽ FIRE EXTINGUISHER & BRACKET- SEE SPEC. 104400
- ▽ FIRE EXTINGUISHER AND CABINET- SEE SPEC. 104400
- ▽ STAINLESS STEEL CORNER GUARDS- SEE SPEC. 102600
- ▽ REFRIGERATOR- SEE SPEC BELOW
- ▽ MOP HOLDER- BOBRICK B-22x34, MOUNT @ 48" AFF.
- ▽ AIR COMPRESSOR BY OWNER
- ▽ HORIZONTAL METAL BLIND, TYP. ALL WINDOWS- SEE SPEC. 122413
- ▽ GEAR DRYER- SEE
- ▽ GEAR WASHER- SEE
- ▽ GEAR LOCKERS BY OWNER

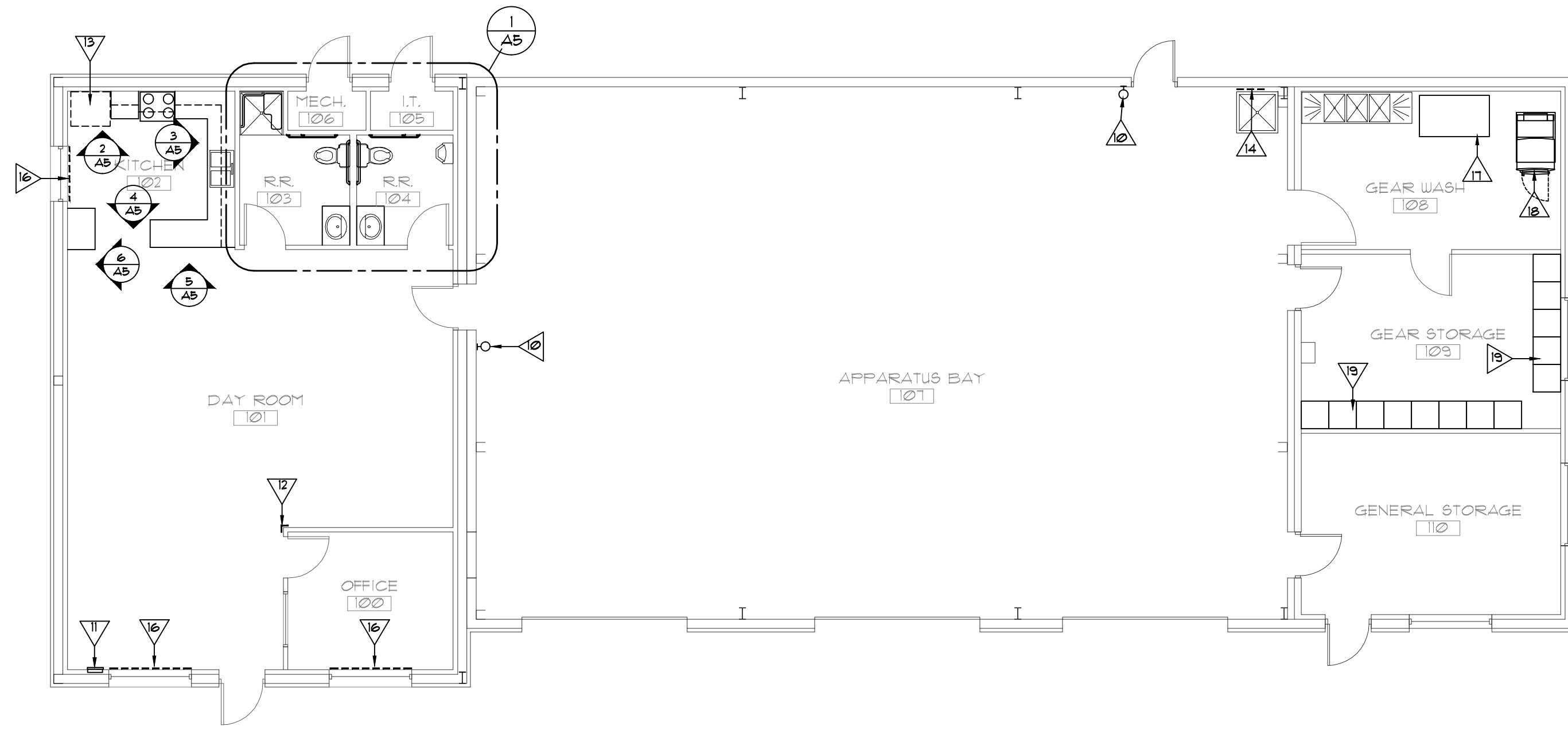
APPLIANCE SCHEDULE-

- | | |
|-------------------|-----------------------|
| STOVE: | FRIGIDAIRE FPGH301TRF |
| EXH. FAN: | BROAN F403004 |
| REFRIGERATOR: | FRIGIDAIRE FGB2860TF |
| DISHWASHER: | FRIGIDAIRE FDB2410HC |
| GARBAGE DISPOSAL: | KITCHEN AID KCD1015B |

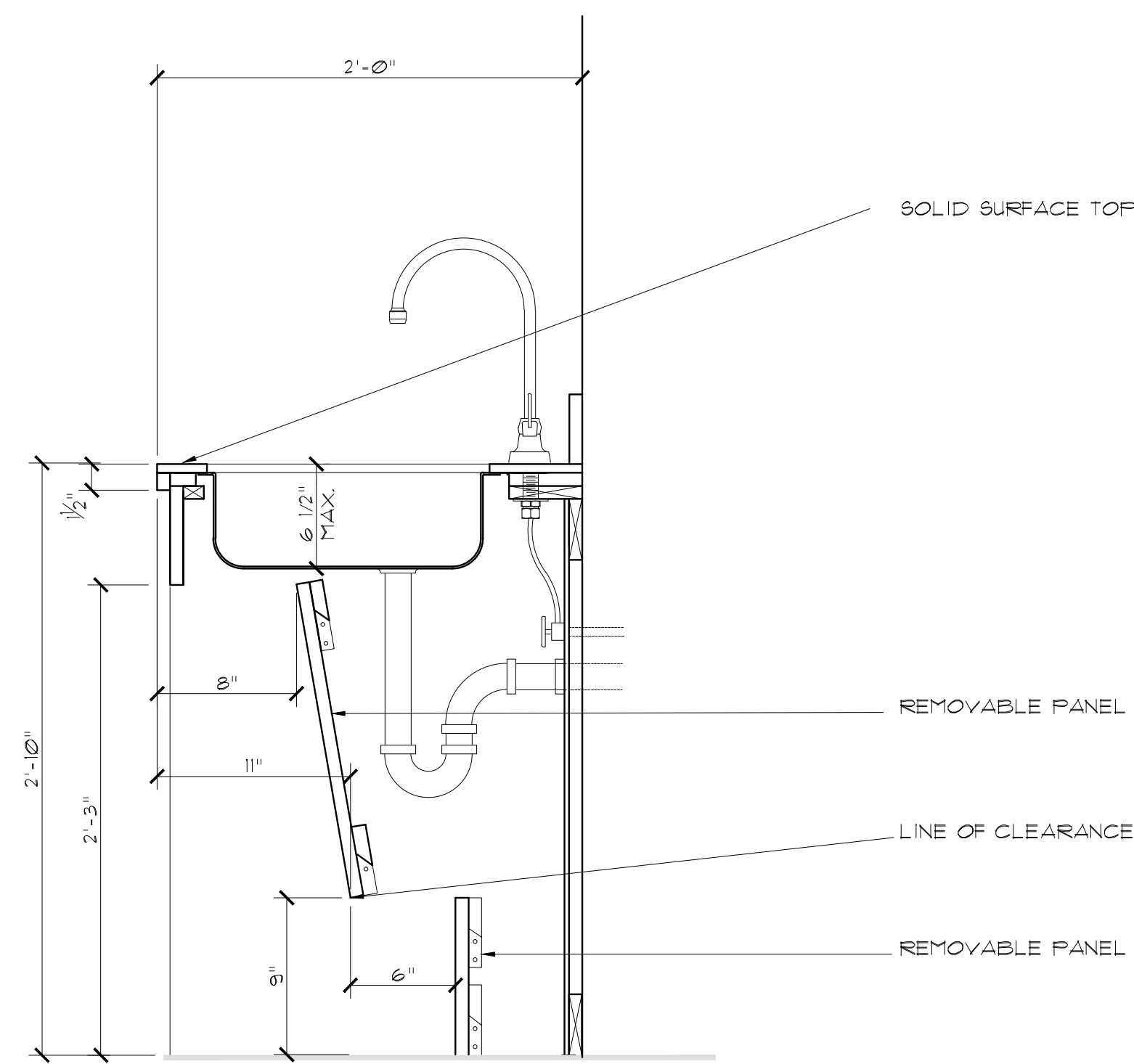


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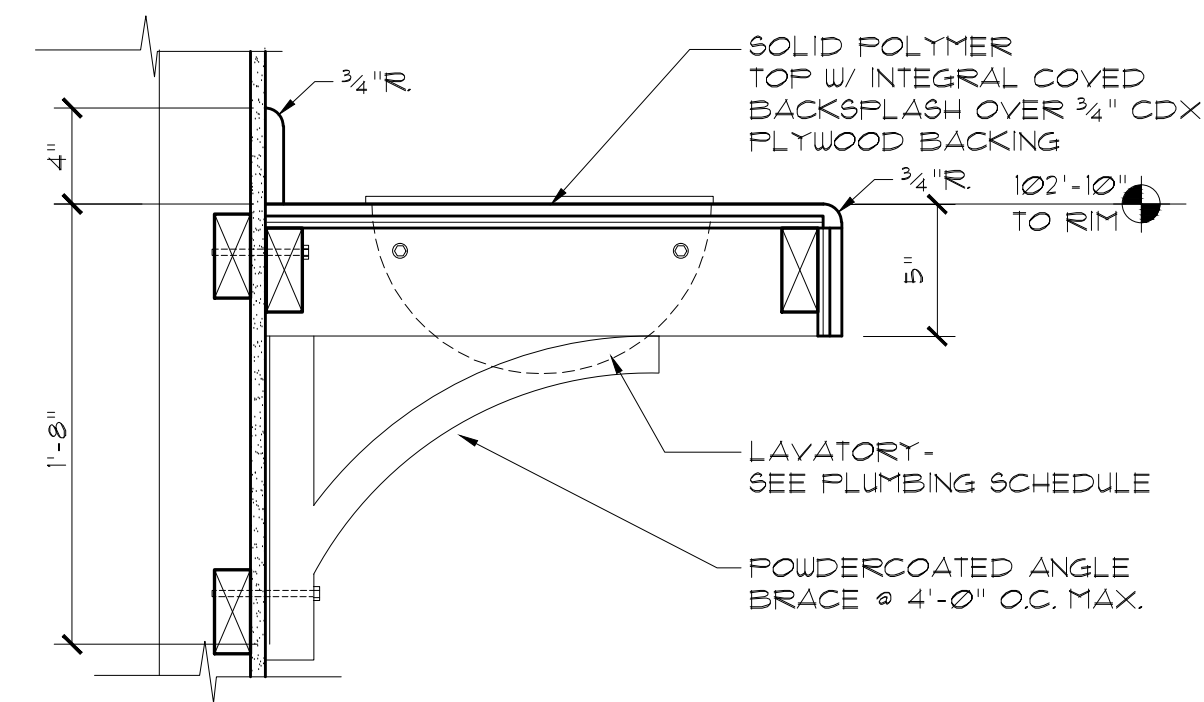
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EQUIPMENT PLAN		Project: 190920
Drawn: BTW		Sheet: A5
Checked: TEH	Date: 04.13.20	Of: 0



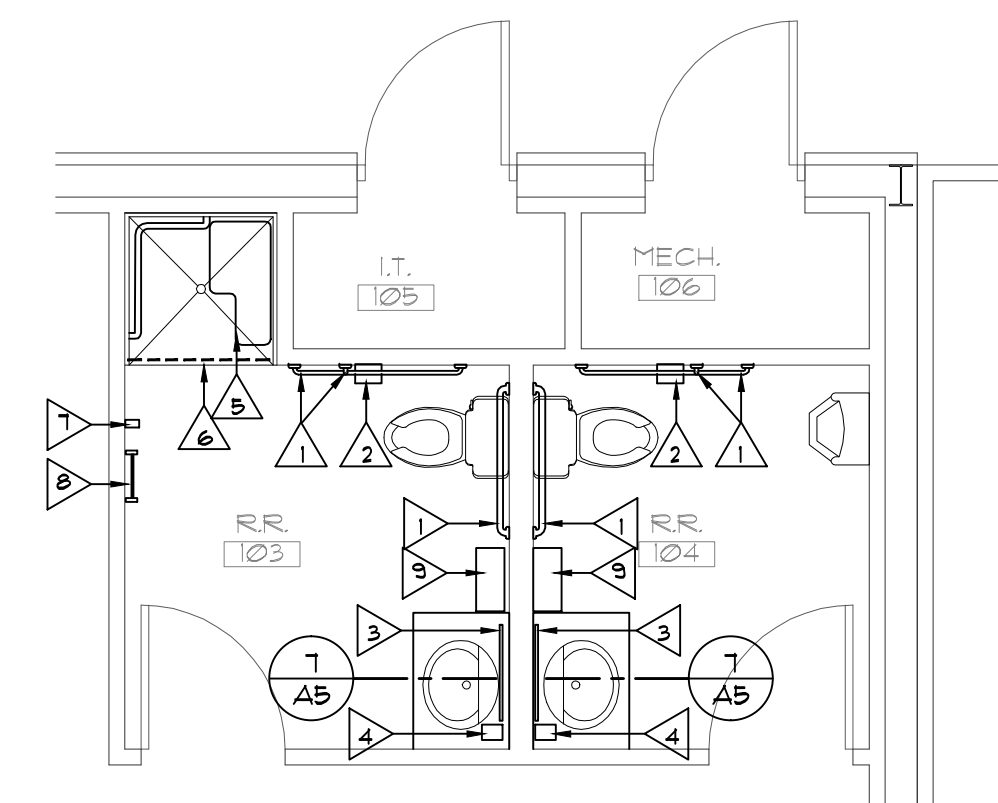
EQUIPMENT PLAN
 SCALE: 1/8" = 1'-0"



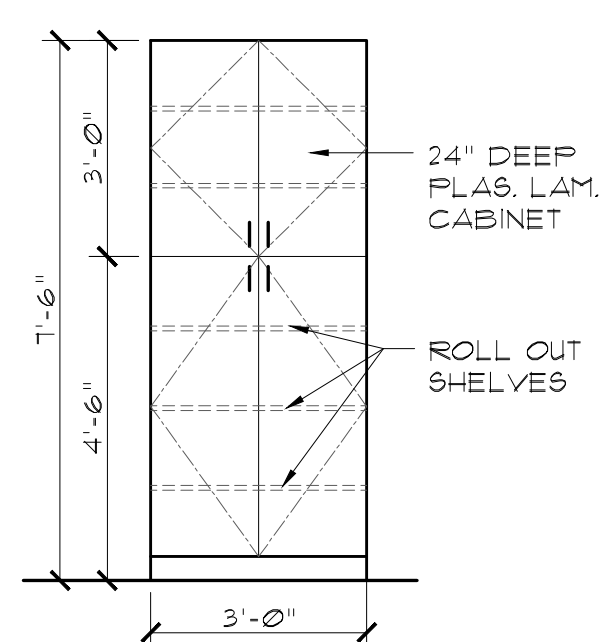
HANDICAP SINK @ KITCHEN
 SCALE: 1 1/2" = 1'-0"



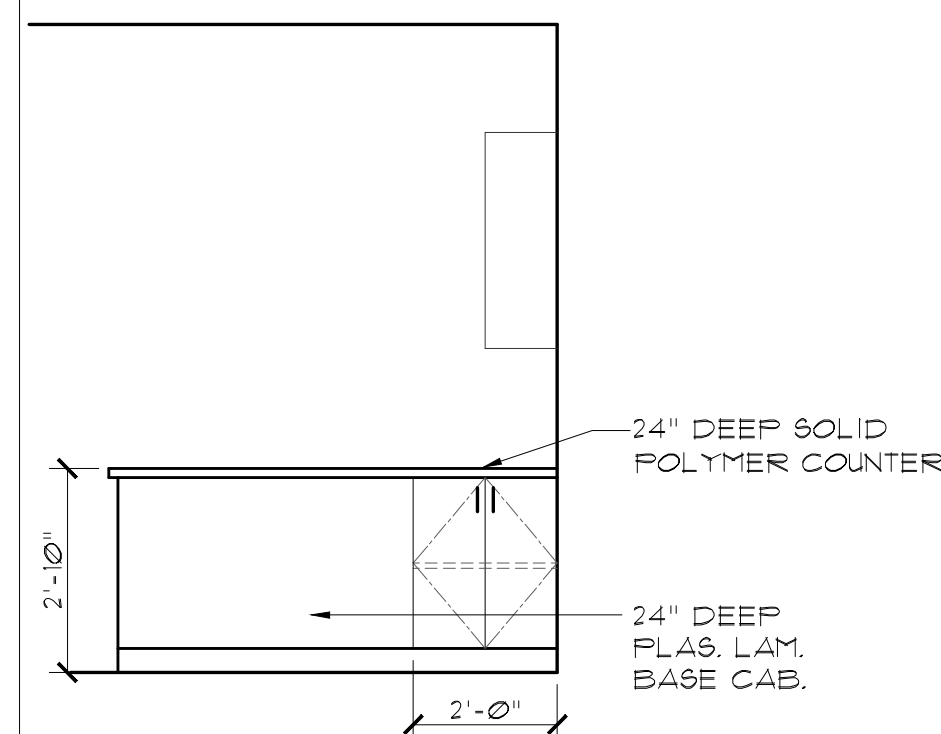
LAVATORY TOP
 SCALE: 1 1/2" = 1'-0"



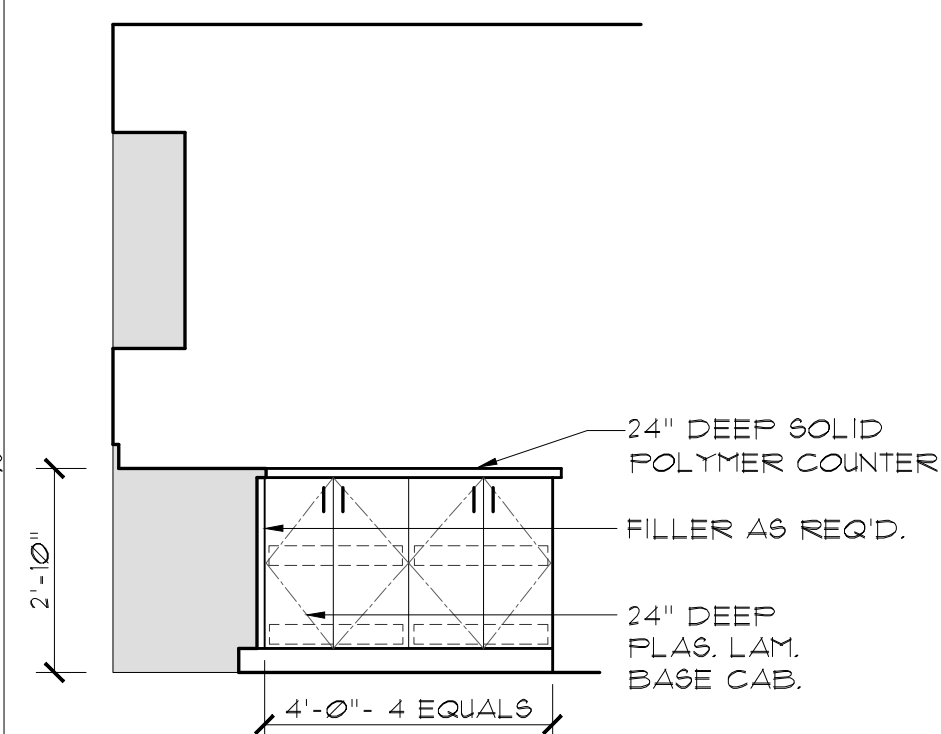
ENLARGED EQUIPMENT PLAN
 SCALE: 1/4" = 1'-0"



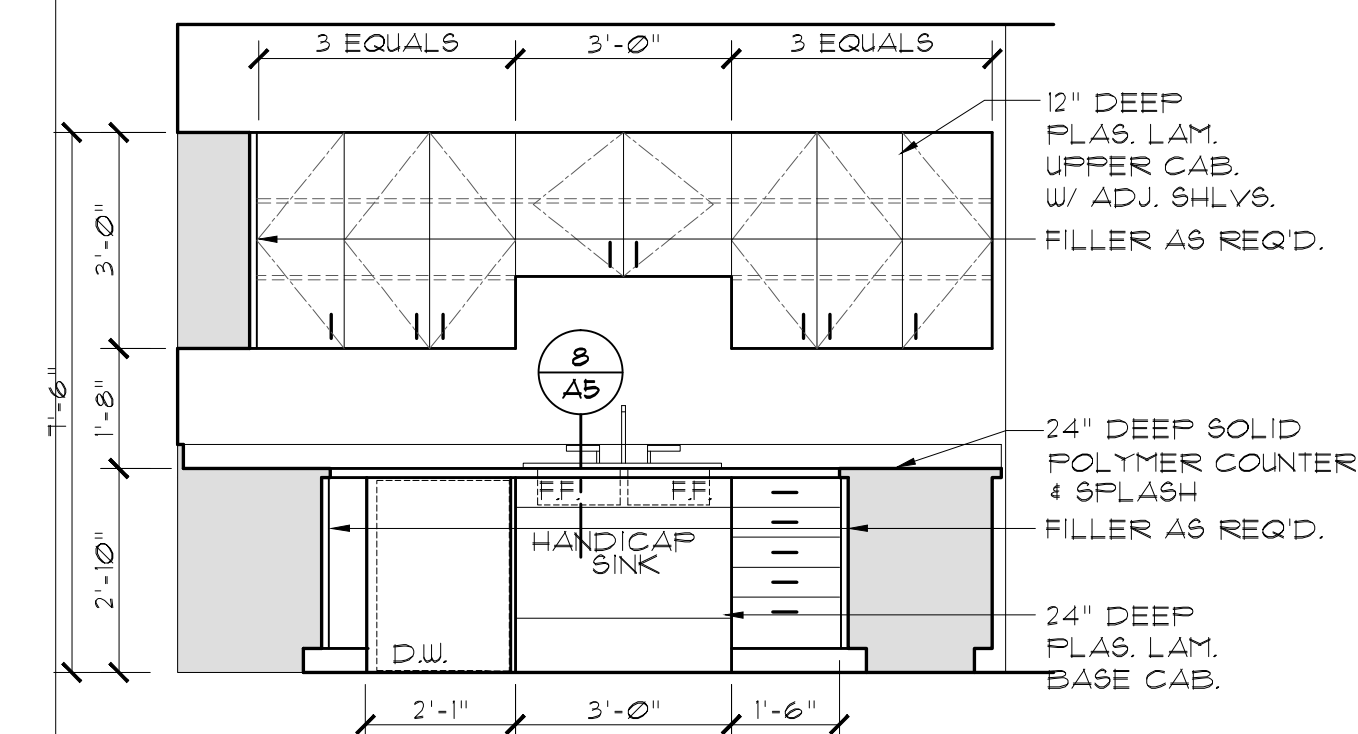
ELEVATION @ KITCHEN 102
 SCALE: 3/8" = 1'-0"



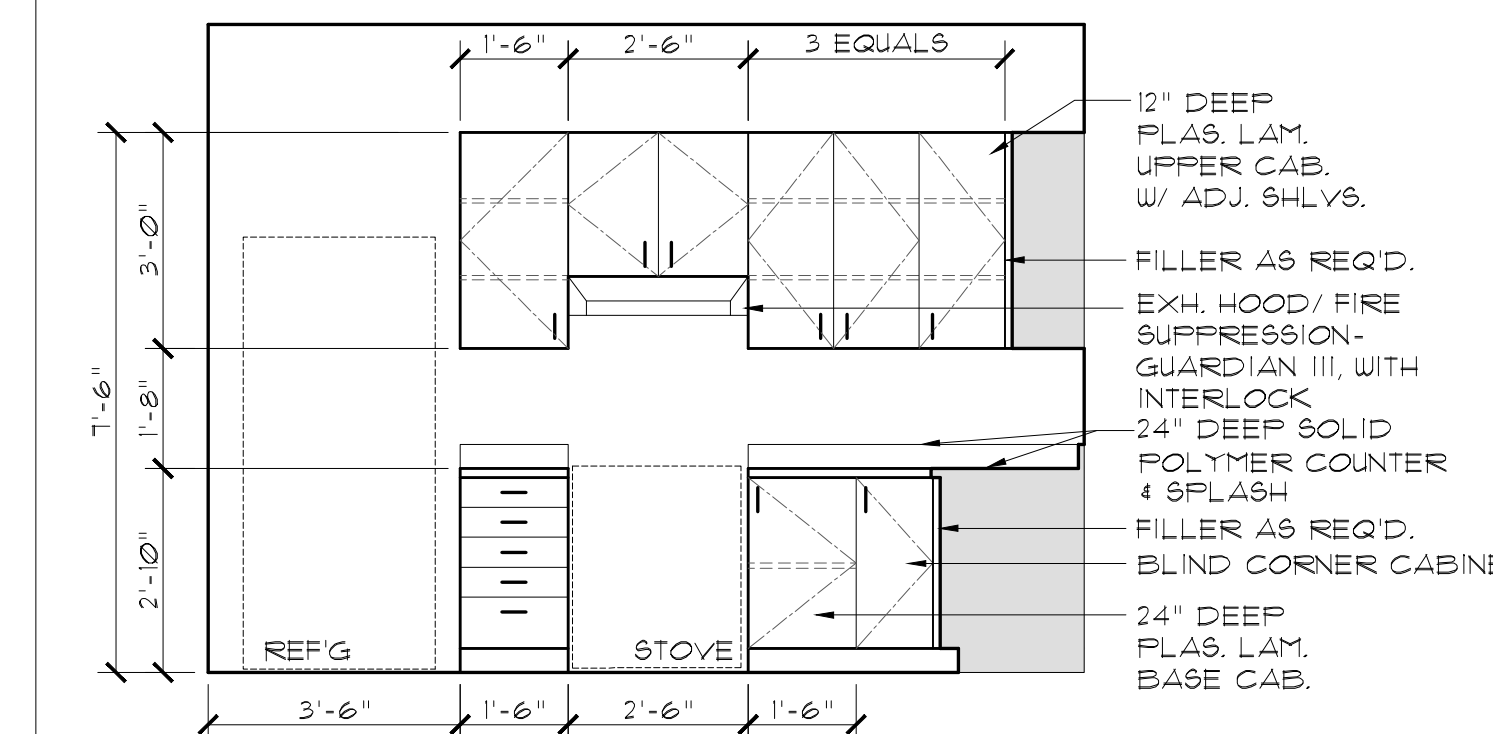
ELEVATION @ KITCHEN 102
 SCALE: 3/8" = 1'-0"



ELEVATION @ KITCHEN 102
 SCALE: 3/8" = 1'-0"



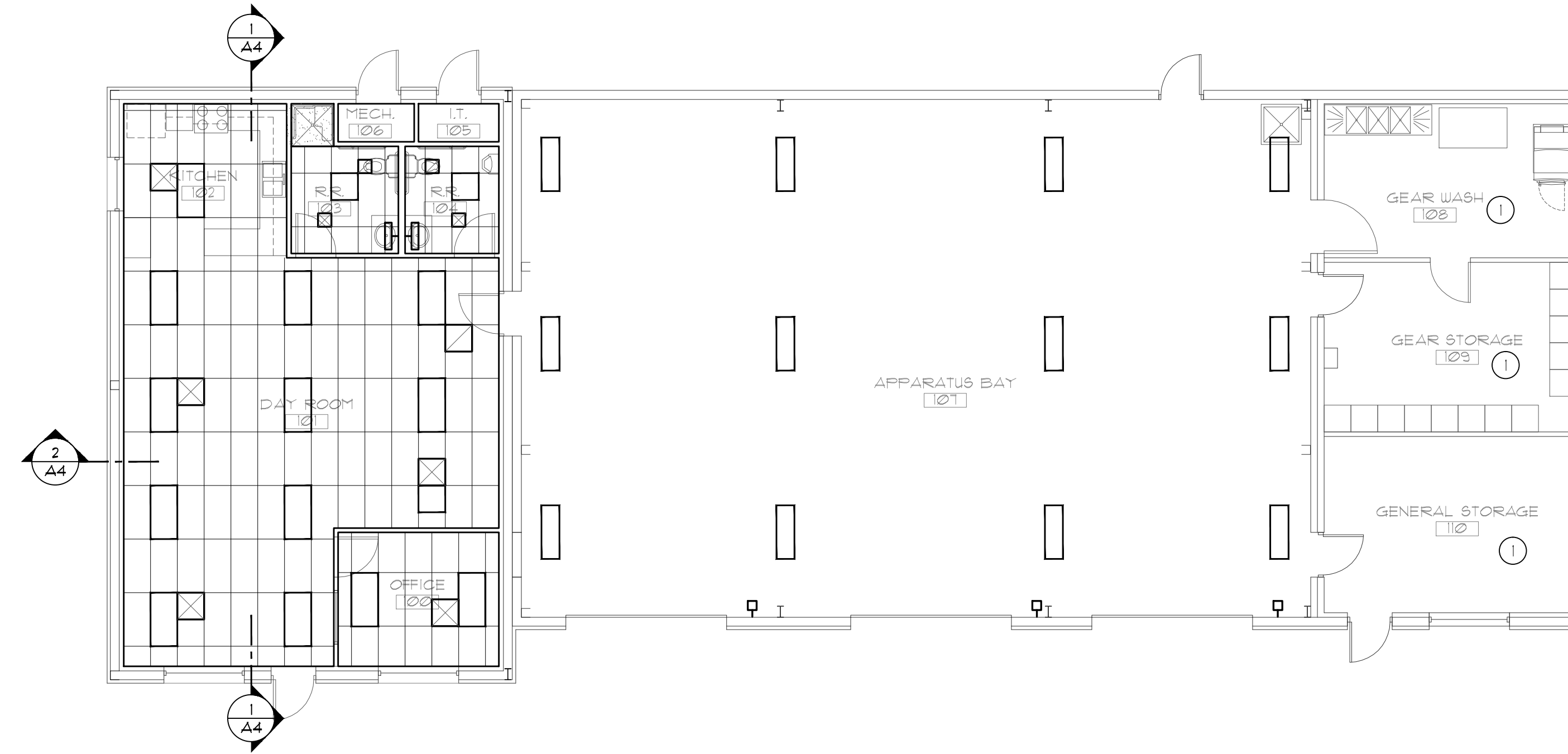
ELEVATION @ KITCHEN 102
 SCALE: 3/8" = 1'-0"



ELEVATION @ KITCHEN 102
 SCALE: 3/8" = 1'-0"

⊗ KEYED NOTES

① PATCH/REPAIR EXISTING CEILING GRID 4 TILE AFTER CONSTRUCTION OF NEW WALLS. RELOCATE EXISTING LIGHTING AS REQUIRED.



 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



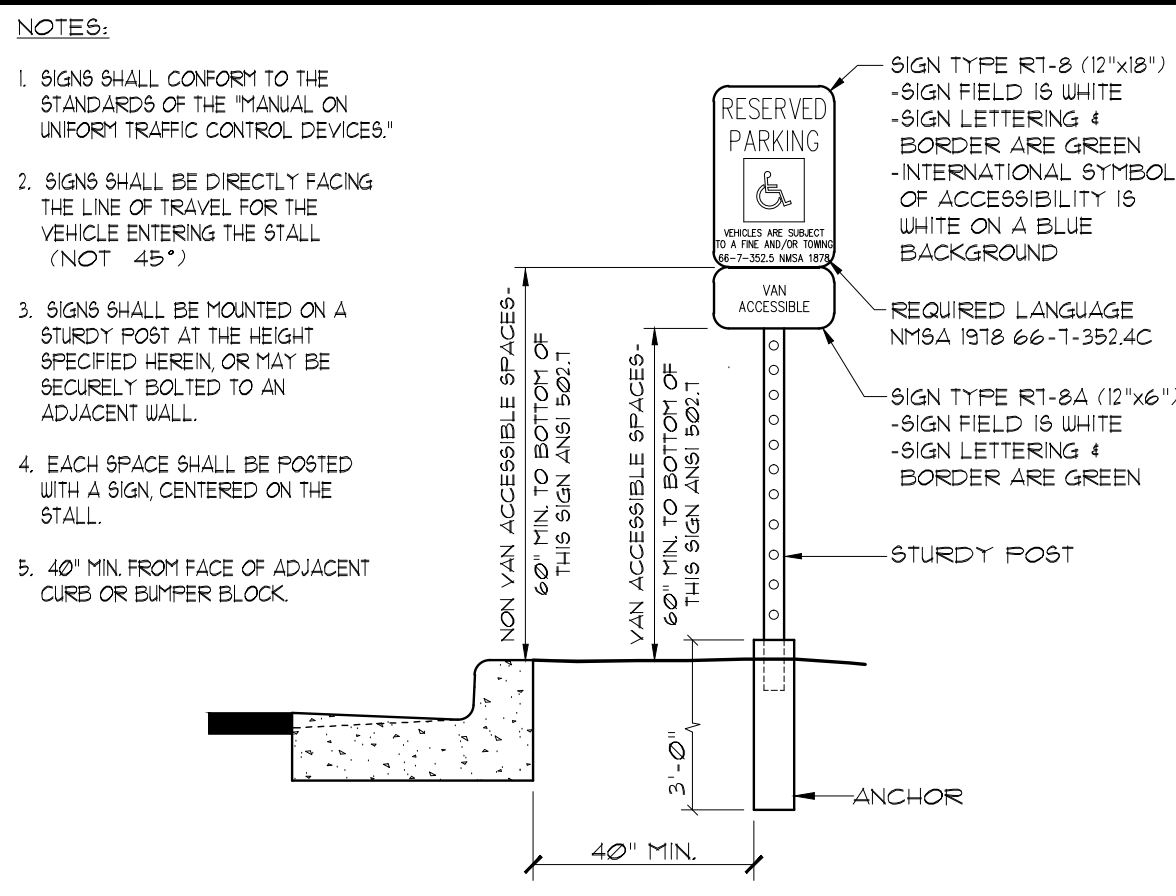
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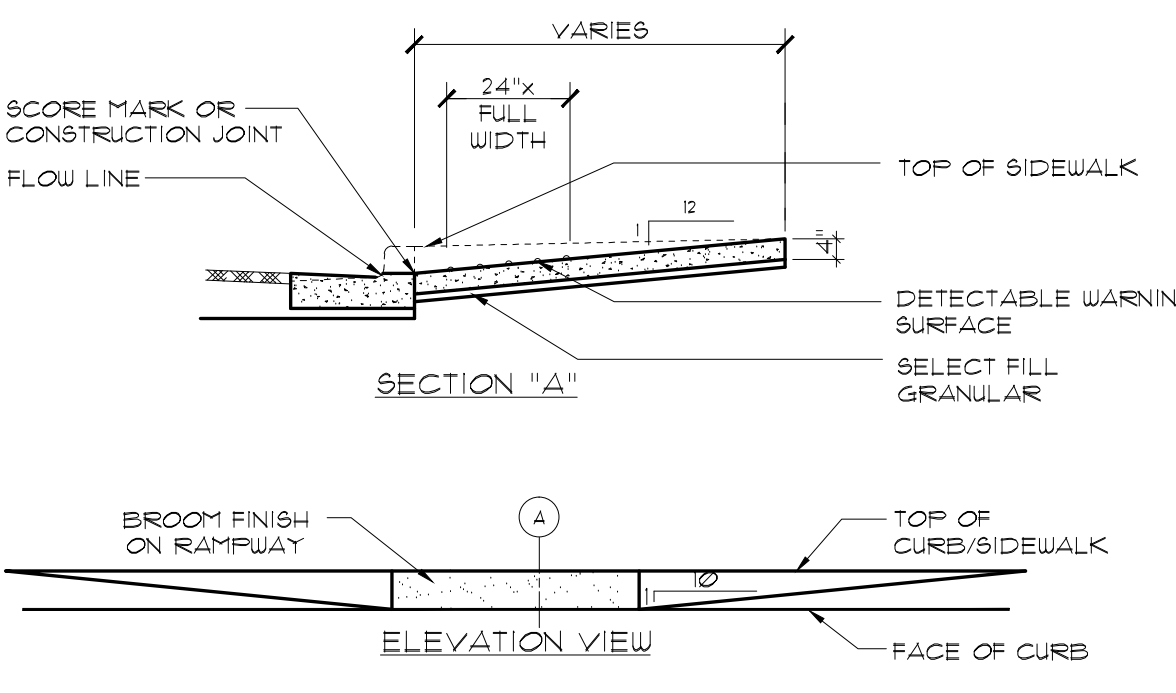
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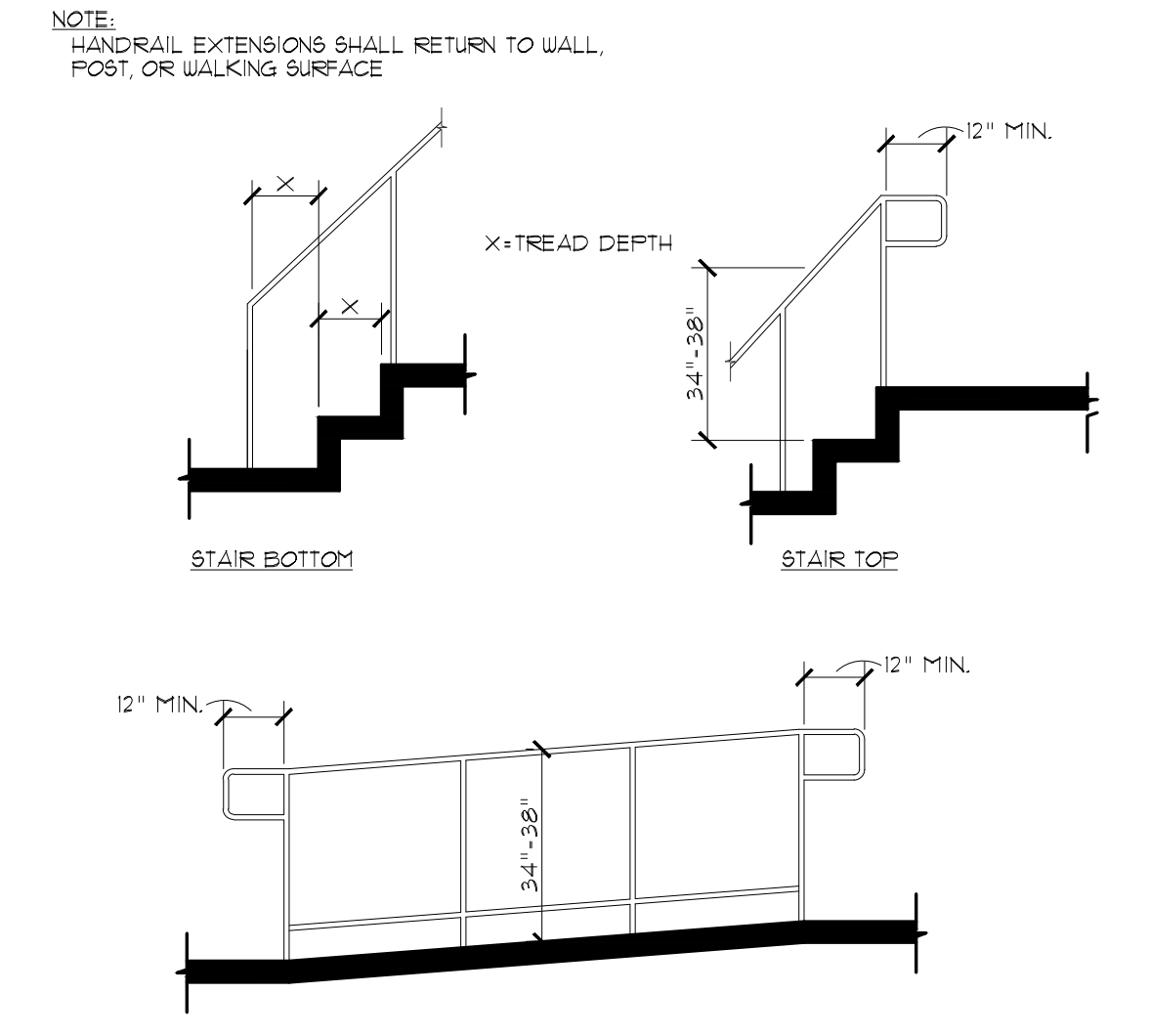
LA PLATA FIRESTATION # 2 FARMINGTON, NM			Filename: 0920_ceil
REFLECTED CEILING PLAN			Project: 190920
Drawn: BTW	Checked: TEH	Date: 04.13.20	Sheet: A6 Of: 0



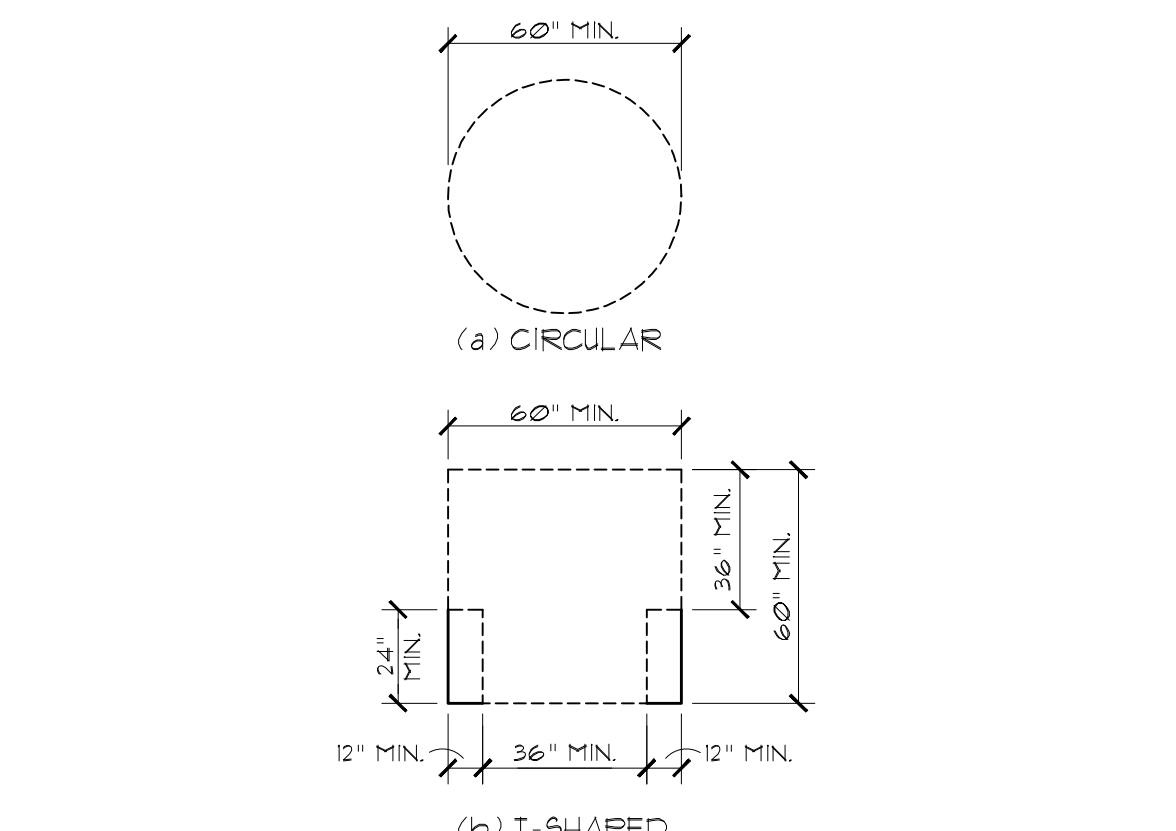
1 HANDICAP PARKING SIGN
HC-1



2 CURB RAMP IN SIDEWALK
HC-1



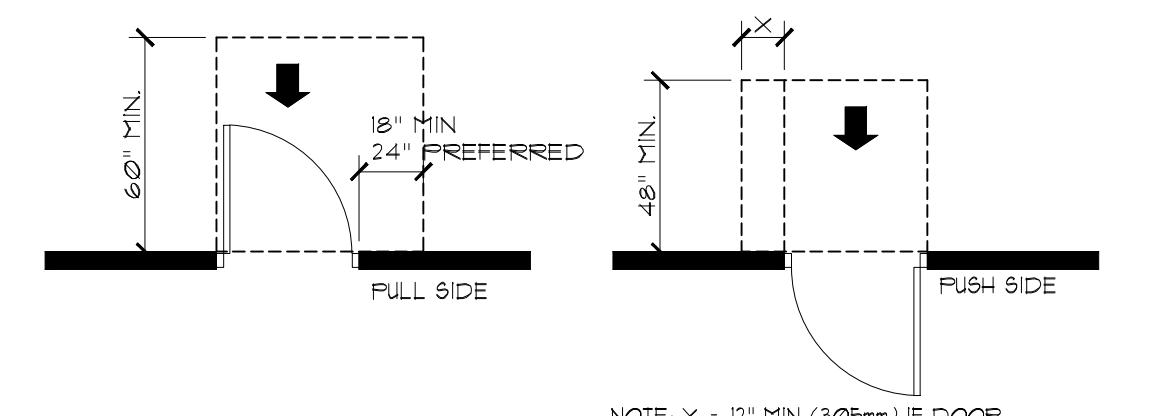
3 TYPICAL HANDRAILS
HC-1



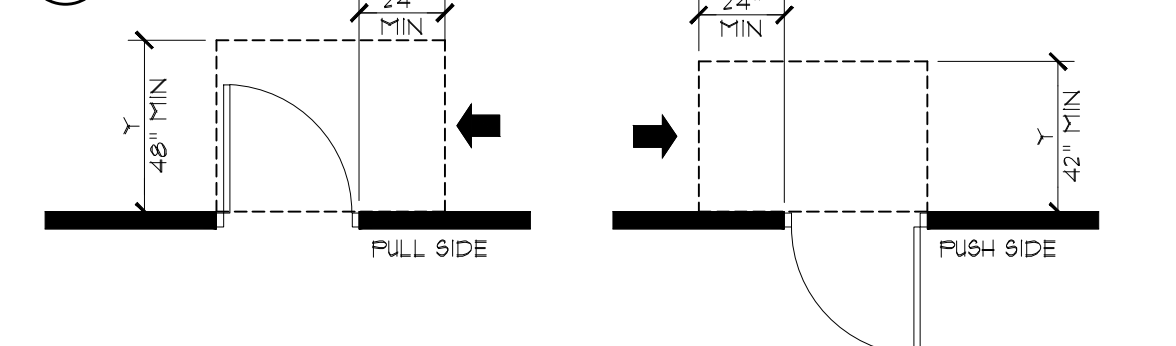
4 SIZE OF WHEELCHAIR TURNING SPACE
HC-1

GENERAL DOOR NOTES

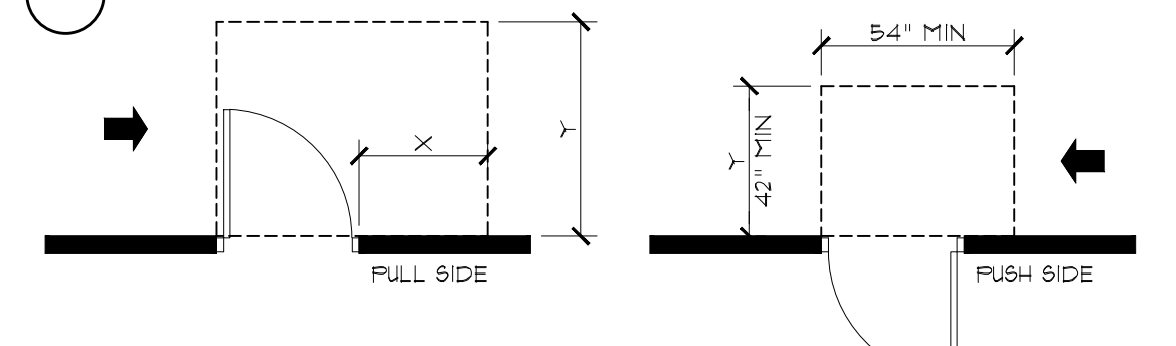
- DOOR HARDWARE, HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE. SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR OR GROUND.
- CLOSING SPEED. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 1/2 DEGREE SHALL BE 5 SECONDS MINIMUM.
- DOOR-OPENING FORCE. THE MAXIMUM FORCE FOR PUSHING OPEN OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS:
 - INTERIOR HINGED DOOR: 5.0 POUNDS.
 - SLIDING OR FOLDING DOOR: 5.0 POUNDS.
- DOOR SURFACE. DOOR SURFACES WITHIN 10 INCHES OF THE FLOOR OR GROUND MEASURED VERTICALLY SHALL BE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAFFED.
- VISION LITES. DOORS AND SIDELITES ADJACENT TO DOORS CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE PANEL 43 INCHES MAXIMUM ABOVE THE FLOOR OR GROUND.
- MANEUVERING CLEARANCES AT DOOR. MINIMUM MANEUVERING CLEARANCES AT DOORS SHALL COMPLY WITH DETAIL 54C1.



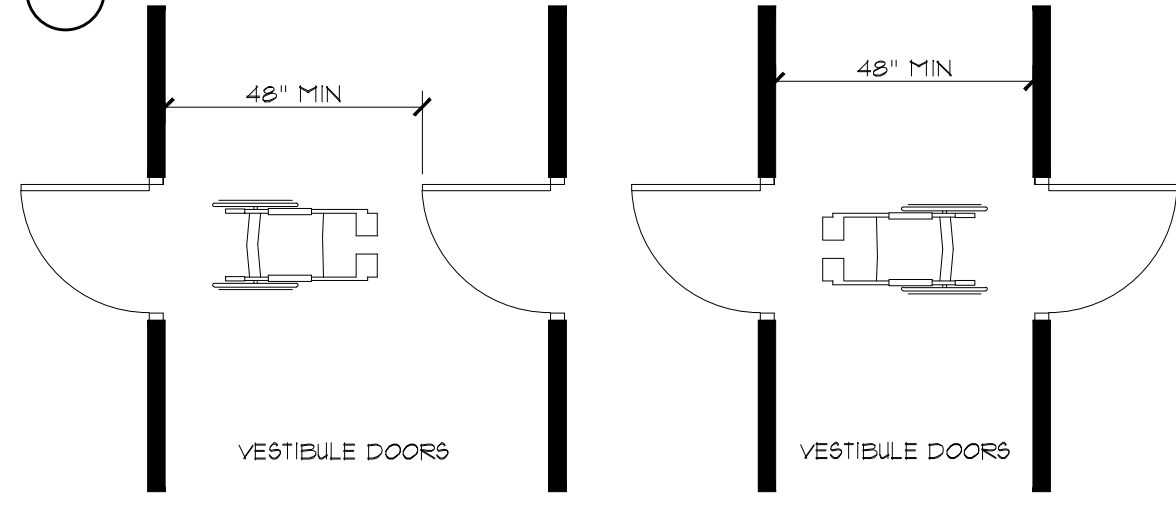
A FRONT APPROACHES SWINGING DOORS



B LATCH SIDE APPROACHES SWINGING DOORS

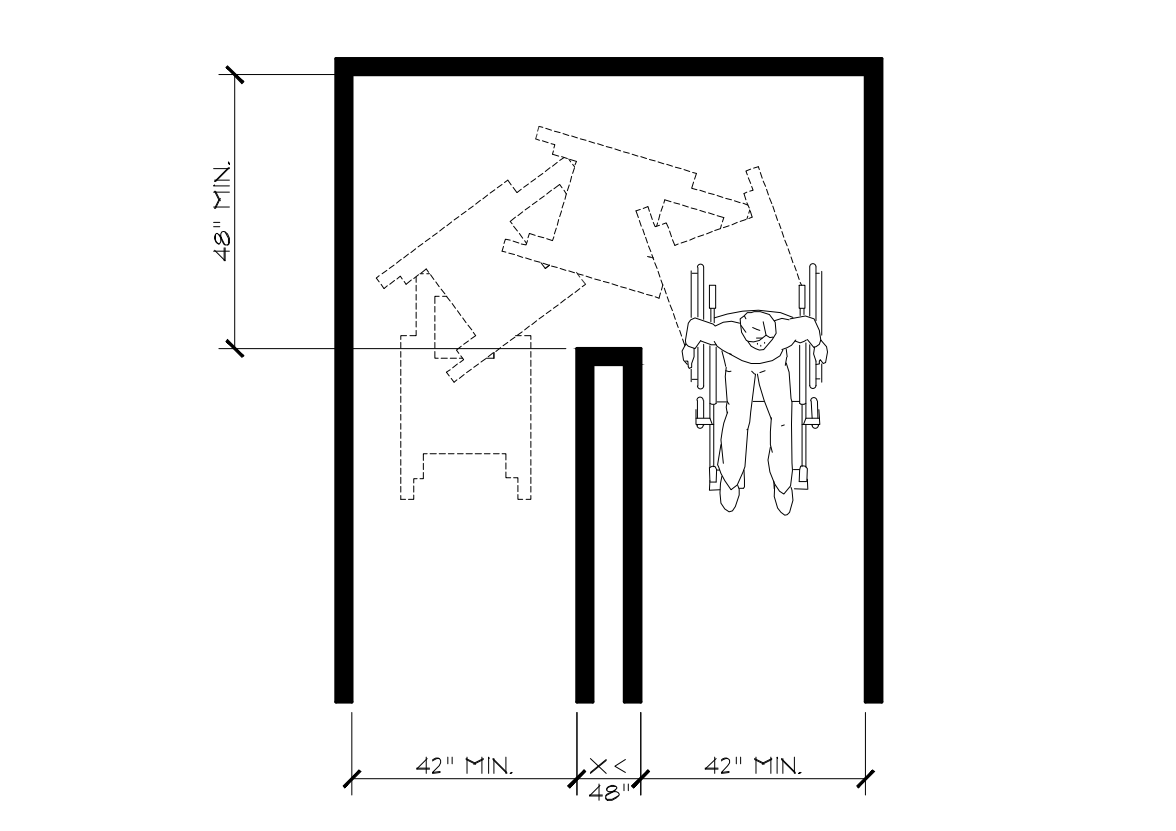


C HINGE SIDE APPROACHES SWINGING DOORS



D TWO HINGED DOORS IN SERIES

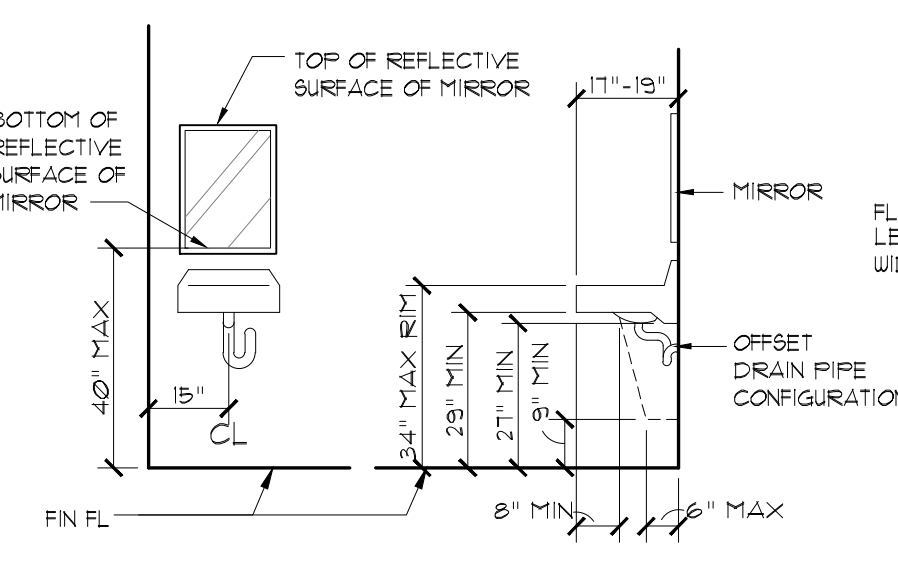
5 TYPICAL DOOR CLEARANCES
HC-1



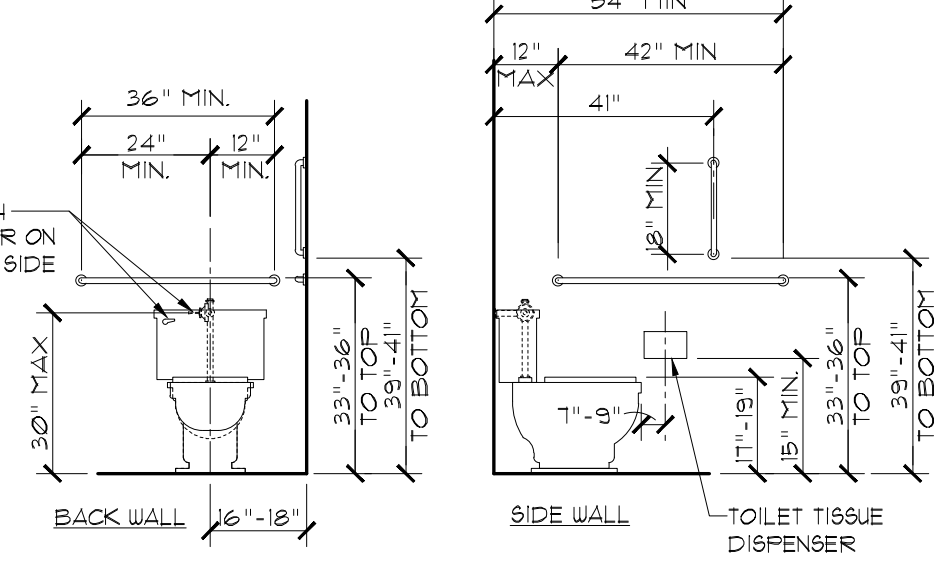
6 CLEAR WIDTH AT TURN
HC-1

NOTES

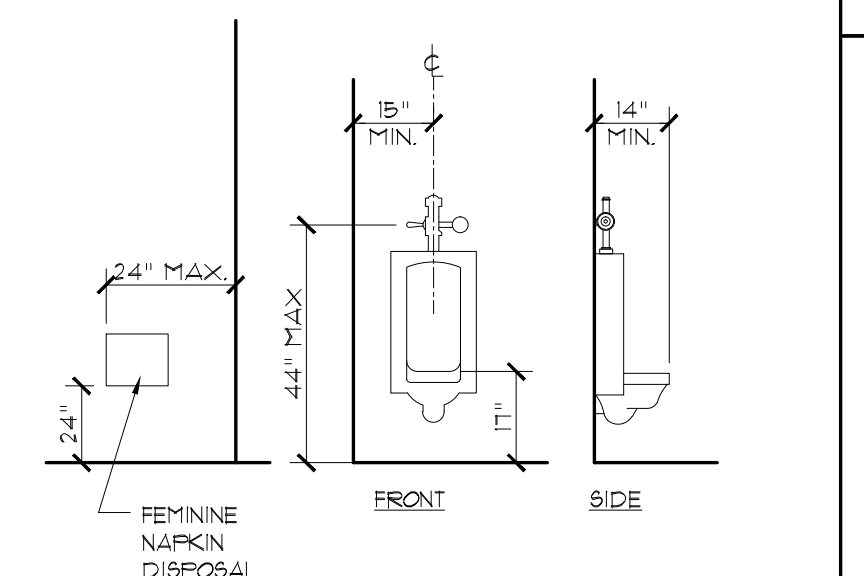
- THE HEIGHTS SHOWN ON THESE DRAWINGS ARE TYPICAL & DO NOT NECESSARILY SHOW ALL CONDITIONS. SEE ACTUAL ROOM PLAN & ELEVATIONS FOR UNIQUE INFORMATION.
- THE INTENT OF THESE ELEVATIONS IS TO ESTABLISH GUIDE-LINES FOR THE VERTICAL LOCATION OF WALL MOUNTED DEVICES GENERALLY THROUGH-OUT THE PROJECT.
- DIMENSIONS ARE TO FINISHED SURFACES.
- CONTACT ARCHITECT IN THE EVENT OF ANY DISCREPANCIES BETWEEN THESE STANDARDS & OTHER DRAWINGS.



LAVATORY
PROVIDE MIN. 2'-6" x 2'-6" CLEAR FLOOR AREA AT FRONT. INSULATE HOT WATER AND DRAIN PIPE.

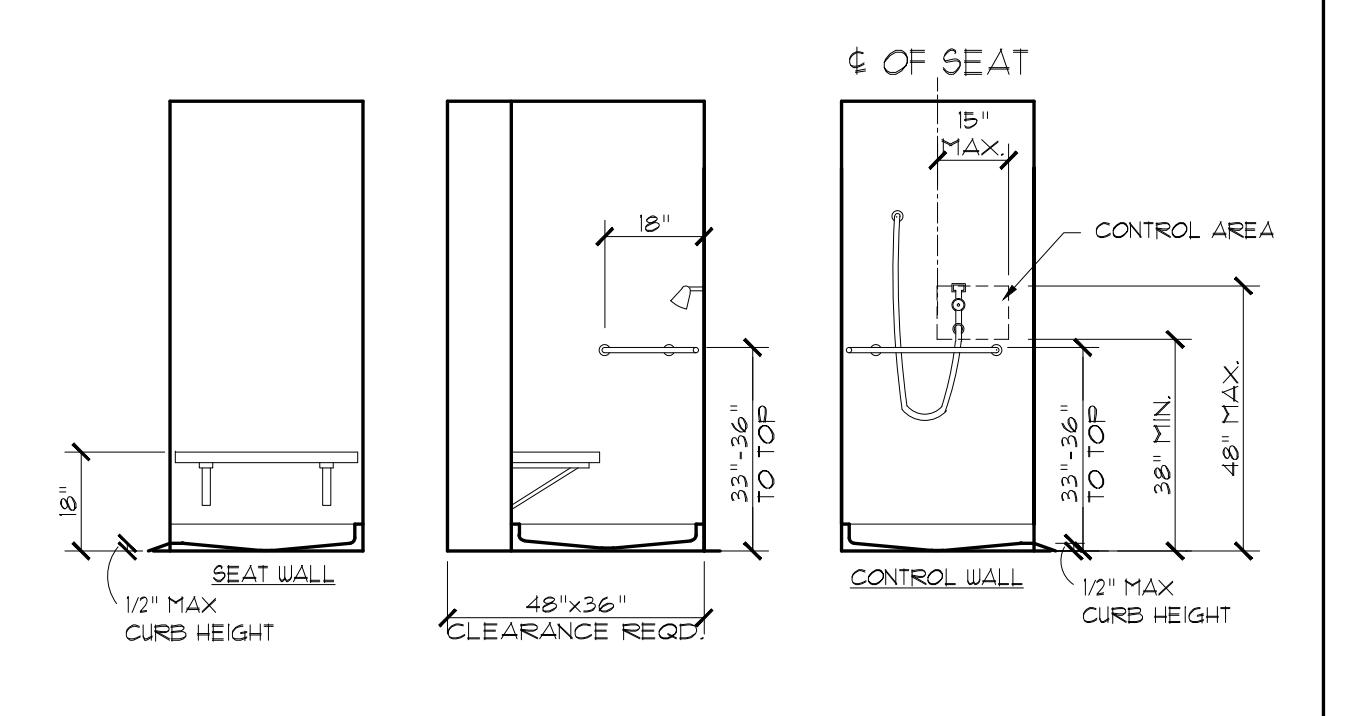
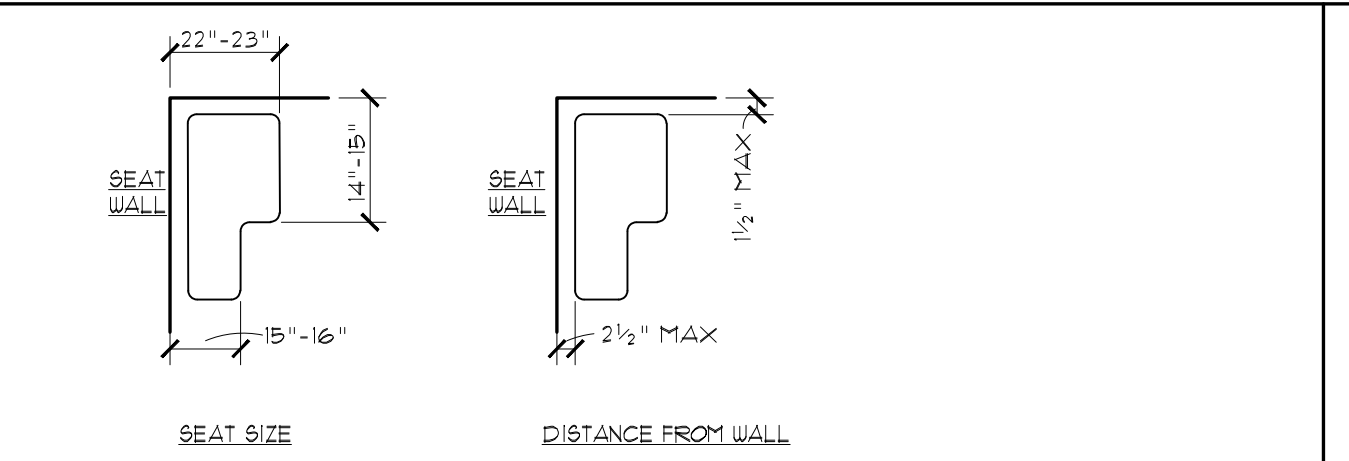


WATER CLOSET
PROVIDE MIN. 60" WIDE x 59" DEEP CLEAR FLOOR AREA FOR FLOOR MOUNTED TOILET.
PROVIDE MIN. 60" WIDE x 56" DEEP CLEAR FLOOR AREA FOR WALL MOUNTED TOILET.

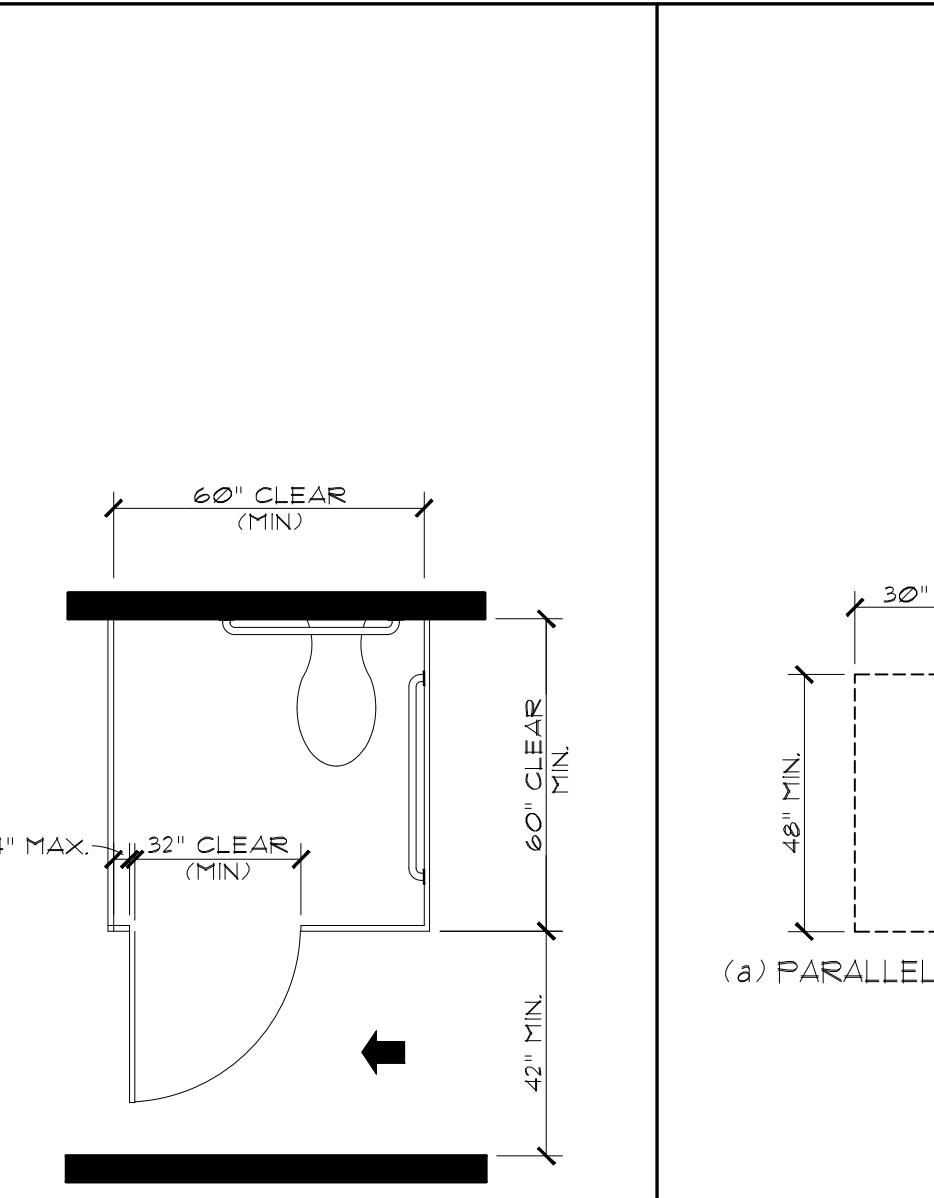


URINAL
PROVIDE MIN. 2'-6" x 4'-0" CLEAR FLOOR AREA AT FRONT.

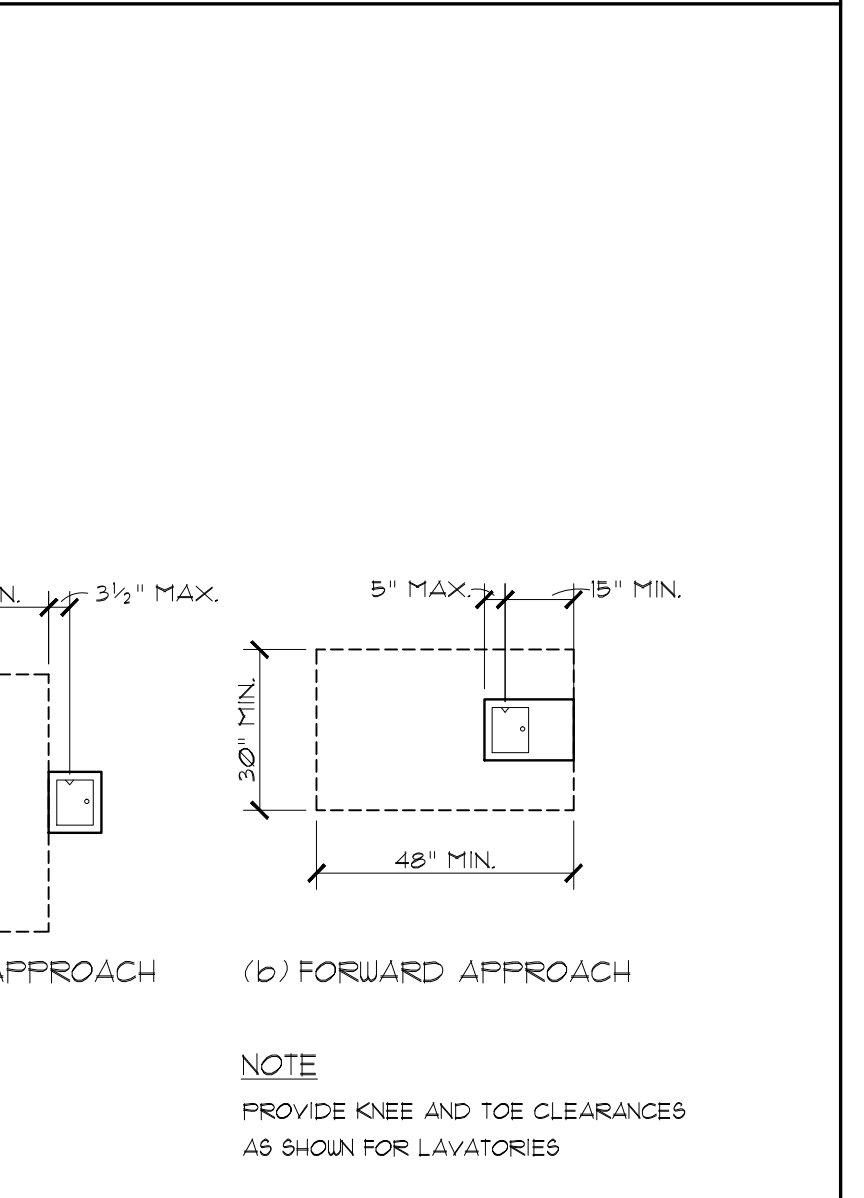
7 RESTROOM FIXTURES & ACCESSORIES
HC-1



8 36"x36" TRANSFER TYPE SHOWER STALL COMPARTMENT
HC-1

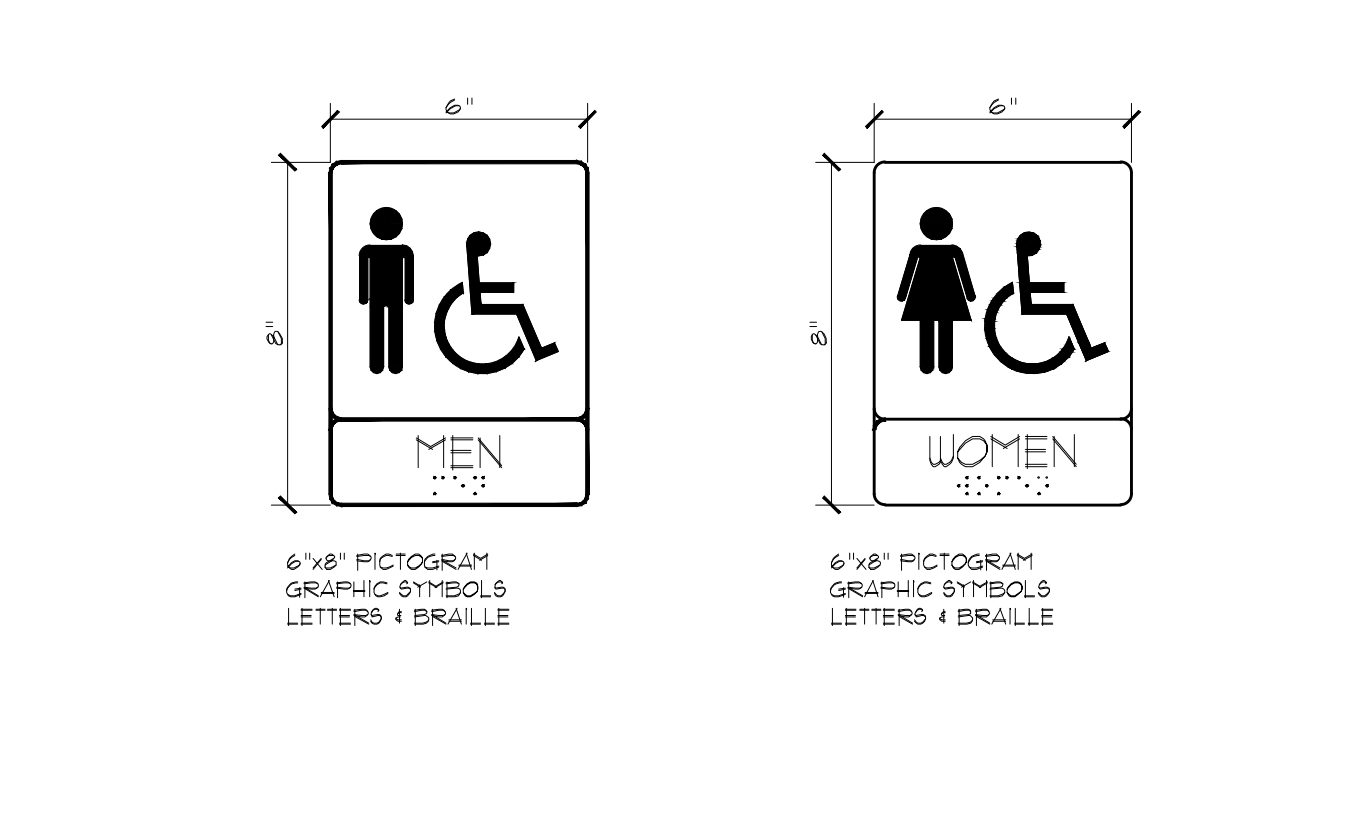


9 TOILET COMPARTMENT
HC-1

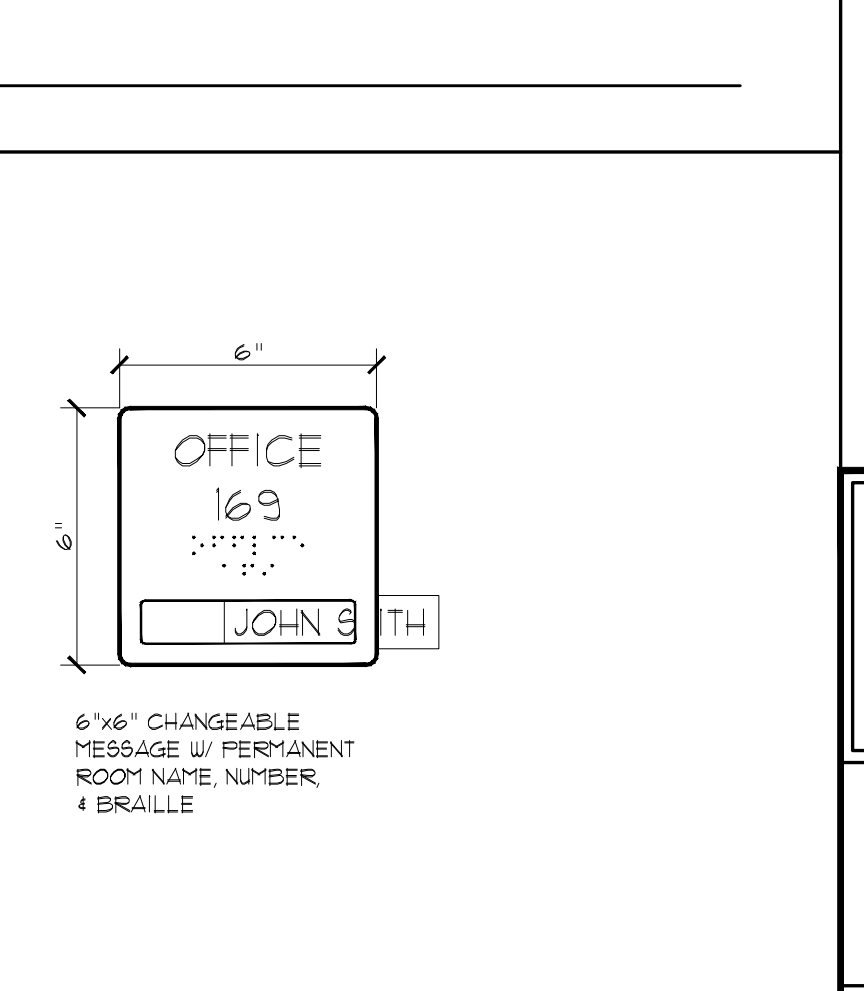


10 DRINKING FOUNTAIN
HC-1

11 STANDARD ACCESSIBLE MOUNTING HEIGHTS
HC-1



12 TYPICAL SIGNAGE - SEE STANDARD ACCESSIBLE MOUNTING HEIGHT BELOW
HC-1



GENERAL NOTES

- ACCESSIBLE ROUTES, ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A SLOPE NOT STEEPER THAN 1:48, DOORWAYS, RAMPS, ELEVATORS, AND WHEELCHAIR (PLATFORM) LIFTS.
- WALKING SURFACES. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF A WALKING SURFACE SHALL NOT BE STEEPER THAN 1:48.
- CLEAR WIDTH. CLEAR WIDTH OF AN ACCESSIBLE ROUTE SHALL BE 36" (MIN).
- CLEAR WIDTH AT TURN. WHERE AN ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN OBJECT WHICH IS LESS THAN 48 INCHES WIDE, CLEAR WIDTHS SHALL BE 42 INCHES MINIMUM APPROACHING THE TURN, 48 INCHES MINIMUM DURING THE TURN, AND 42 INCHES MINIMUM LEAVING THE TURN.
- DOORS AND DOORWAYS. DOORWAYS SHALL HAVE A CLEAR OPENING OF 32 INCHES MINIMUM. CLEAR OPENING OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF DOOR AND STOP WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE CLEAR OPENING WIDTH LOWER THAN 34 INCHES ABOVE THE FLOOR OR GROUND. PROJECTIONS INTO THE MINIMUM CLEAR OPENING WIDTH MORE THAN 21 INCHES AND UP TO 80 INCHES ABOVE THE FLOOR OR GROUND ARE PERMITTED BUT SHALL NOT EXCEED 4 INCHES.
- PARKING SPACES. ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN ACCORDANCE WITH C.O.F. CODE SECTION 21-25-6.
- VEHICLE SPACES. CAR AND VAN PARKING SPACES SHALL BE 36 INCHES WIDE MINIMUM AND SHALL HAVE AN ADJACENT ACCESS AISLE 60" WIDE MINIMUM. TWO PARKING SPACES SHALL BE PERMITTED TO SHARE A COMMON ACCESS AISLE. PARKED VEHICLE OVERHANGS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE. ACCESS AISLES SERVING VAN PARKING SPACES SHALL BE 36 INCHES WIDE MINIMUM. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE PARKING SPACES THEY SERVE AND SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THEM.
- GROUND SURFACES. PARKING SPACES AND ACCESS AISLES SHALL HAVE SURFACE SLOPES NOT STEEPER THAN 1:48. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE.
- IF ONLY ONE ACCESSIBLE PARKING SPACE IS REQUIRED IT SHALL BE SIZED AND NOTED FOR VAN PARKING.
- HANDRAILS. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS OR RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS. CLEAR SPACE BETWEEN HANDRAILS AND WALL SHALL BE 1 1/2 INCHES MINIMUM.
- DRINKING FOUNTAINS. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH DETAIL 10HC1 SHALL BE PROVIDED. SPOUT OUTLETS SHALL BE 36 INCHES MAXIMUM ABOVE THE FLOOR.
- TOILET ROOMS. A WHEELCHAIR TURNING SPACE COMPLYING WITH DETAIL 44 SHALL BE PROVIDED WITHIN THE ROOM. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR OR GROUND SPACE OR CLEARANCE FOR ANY FIXTURE.

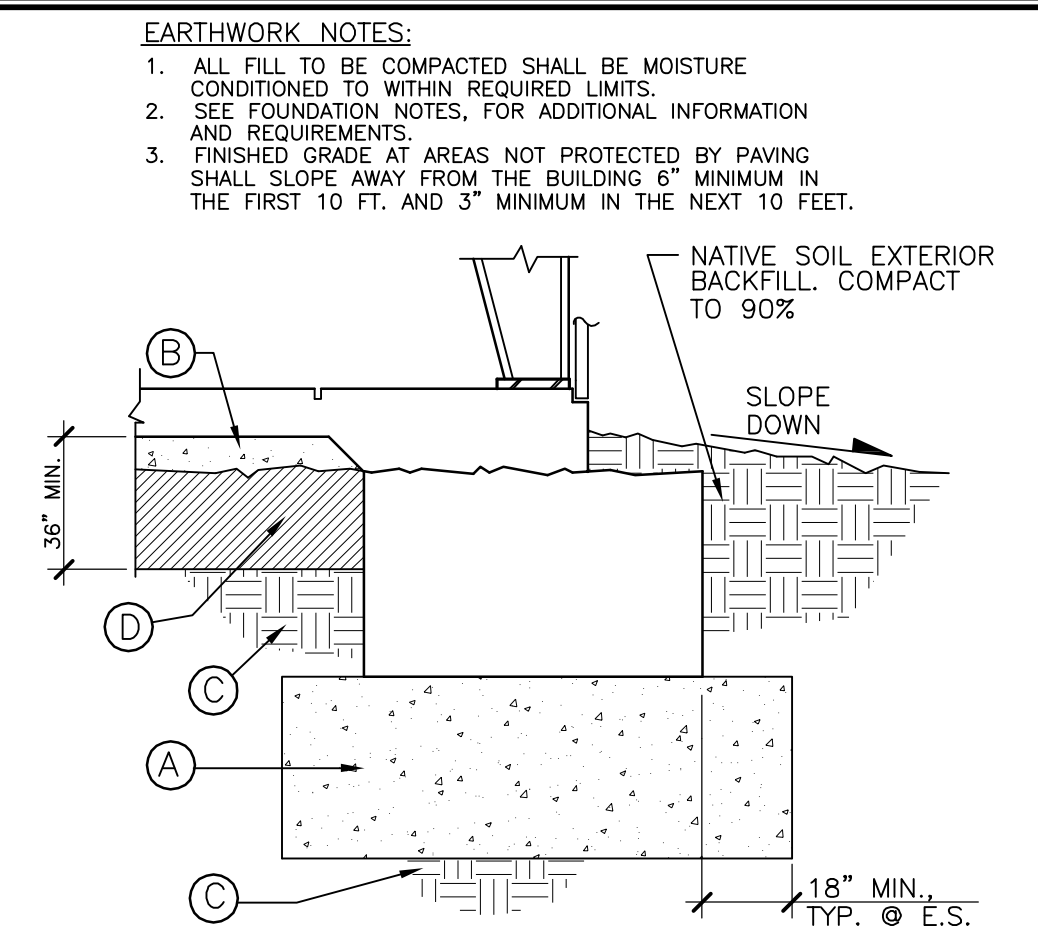
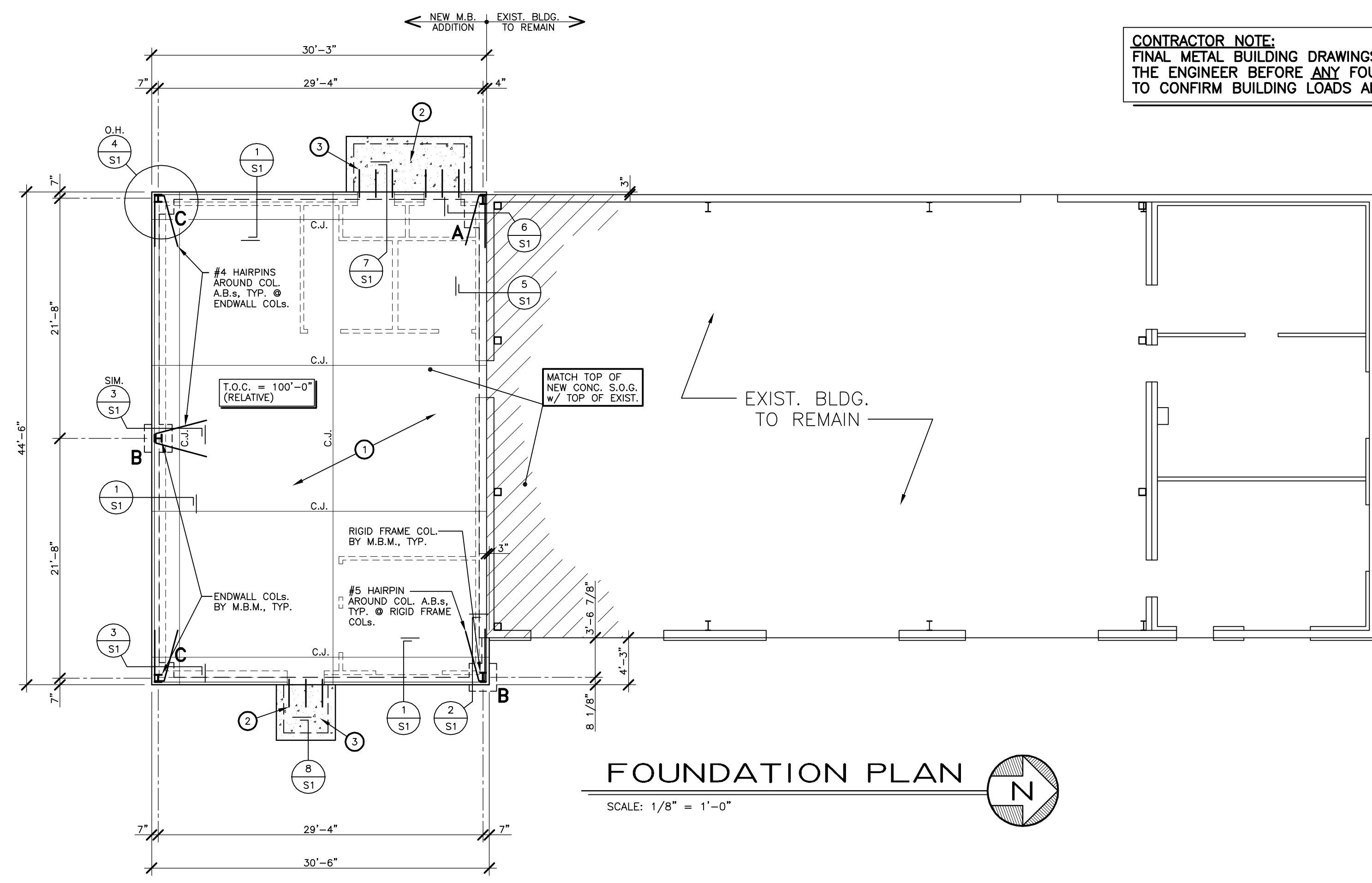
EXCEPTIONS: WHERE THE ROOM IS FOR INDIVIDUAL USE AND A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH DETAIL 10HC1 IS PROVIDED WITHIN THE ROOM, BEYOND THE ARC OF THE DOOR SWING.

- CHECKOUT COUNTERS. CHECKOUT COUNTER SURFACES SHALL BE 38 INCHES MAXIMUM ABOVE THE FLOOR OR GROUND. THE TOP OF THE COUNTER EDGE PROTECTION SHALL BE 2 INCHES MAXIMUM ABOVE THE COUNTER SURFACE.
- SERVICE COUNTERS. COUNTERS FOR SALES OR DISTRIBUTION OF GOODS AND SERVICES TO THE PUBLIC SHALL HAVE A PORTION OF THE COUNTER 36 INCHES LONG MINIMUM BY 36 INCHES HIGH MAXIMUM ABOVE THE FLOOR OR GROUND.
- DOORS WITH THRESHOLD SHALL HAVE A MAXIMUM OF 1/2" FROM THE FLOOR OR LANDING TO THE TOP OF THE THRESHOLD.



RODAHL & HUMMELL ARCHITECTURE, P.C.
609 North Dustin Farmington, NM 87401
Phone: (505) 326-6442

LA PLATA FIRE STATION #2 FARMINGTON, NM	Filename: HCSHEET
HANDICAP REQUIREMENTS	Project: 190920
Drawn: BTW	Checked: TEH
Date: 04.13.20	Sheet: HC-1
	Of:



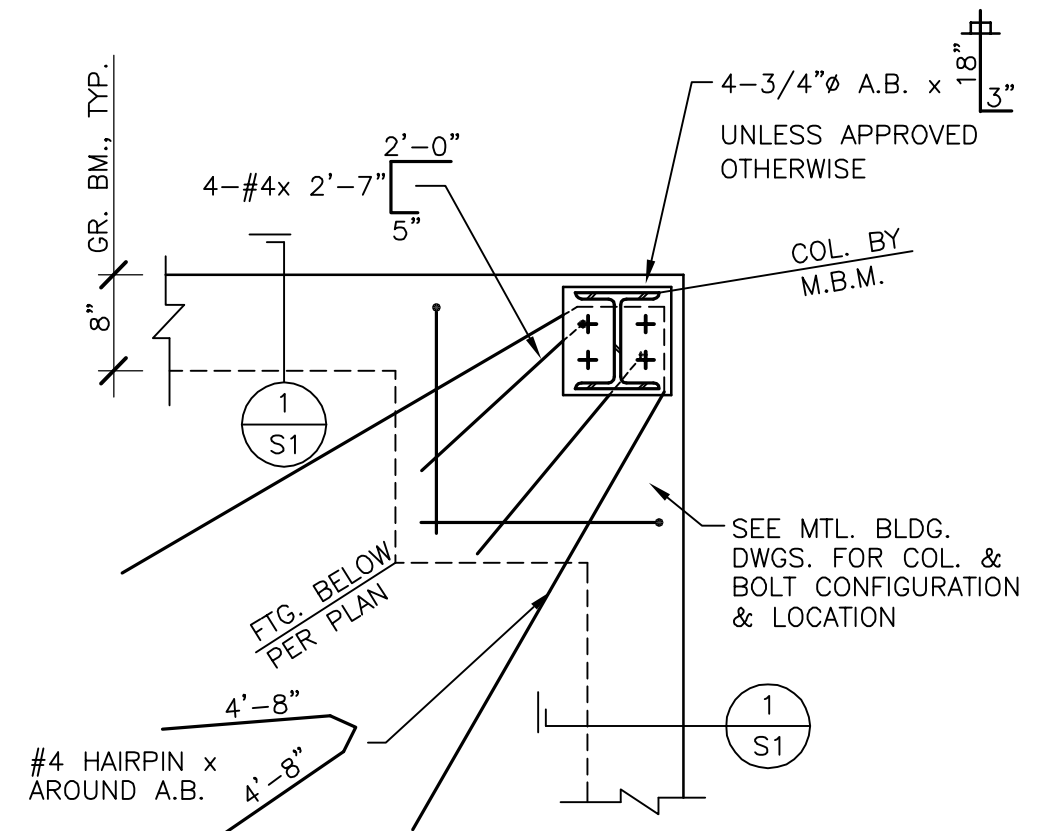
- KEYED EARTHWORK NOTES:
- (A) 36" MIN. OF STRUCT. B.F. COMPACTED TO 95% OF ASTM D-698. OMIT BACKFILL @ G.B.s
 - (B) 4" OF 3/4" AGGREGATE BASE COURSE COMPACTED TO 95%, U.N.O.
 - (C) SCARIFY NATIVE SUBGRADE 8" MIN., MOISTURE CONDITION TO 2% ABV. OPTIMUM AND RE-COMPACT TO 95% OF ASTM D-698.
 - (D) 36" MIN. OF STRUCT. B.F. COMPACTED TO 95% OF ASTM D-698.
- (A/S1) TYP. MINIMUM EARTHWORK REQUIREMENTS @ FTGS. & S.O.G.

- FOUNDATION NOTES:
- SEE SHEET S2 FOR GENERAL STRUCTURAL NOTES, DESIGN LOADS, MATERIAL DESCRIPTIONS, CONSTRUCTION REQUIREMENTS, RECOMMENDED OBSERVATIONS, SPECIAL INSPECTION REQUIREMENTS AND TYPICAL DETAILS NOT REFERENCED BUT WHICH SHALL APPLY TO THE APPROPRIATE CONDITIONS.
 - SEE DETAIL A/S1 FOR TYPICAL MINIMUM EARTHWORK REQUIREMENTS
 - DIMENSIONS ARE TO OUTSIDE FACE-OF-CONCRETE AND TO CENTERLINES OF FOOTINGS AS INDICATED, U.N.O.
 - TYPICAL INTERIOR CONCRETE S.O.G.
 - 4 1/2" THICK CONC. w/ f.c. = 3000 psi MIN. @ 28 DAYS.
 - REINFORCE w/ #4 @ 24" o.c. E.W. @ CTR. OF THICKNESS.
 - PLACE ON 4" OF 3/4" A.B.C. COMPACTED TO 95%.
 - TYPICAL EXTERIOR CONCRETE S.O.G. STOOD / WALK:
 - 4 1/2" THICK CONC. w/ f.c. = 4000 psi MIN. @ 28 DAYS.
 - REINFORCE w/ #4 @ 24" o.c. E.W. @ CTR. OF THICKNESS.
 - PLACE ON 4" OF 3/4" A.B.C. COMPACTED TO 95%.
 - PROVIDE CONTRACTION JOINTS (C.J.) @ APPROXIMATELY 15 FT. o.c. MAXIMUM.
 - SLOPE SLABS DOWN AND AWAY FROM BUILDING @ 1/4" FT MIN. FOR DRAINAGE.
 - TYPICAL FOUNDATIONS SHALL BE STEPPED AS REQUIRED FOR SITE CONDITIONS AND TO MAINTAIN FROST PROTECTION EMBEDMENT. ACTUAL GRADE BEAM STEP LOCATIONS AND STEP HEIGHTS SHALL BE DETERMINED BY THE CONTRACTOR BASED ON FIELD CONDITIONS.
 - C.J.: CONTRACTION JOINT IN CONC. FLR./S.O.G.
 - T.O.C. = FINISHED FLOOR ELEVATIONS = TOP OF CONCRETE SLAB-ON-GRADE ELEVATION
 - SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 - SEE ARCHITECTURAL PLANS FOR EXTERIOR SLAB LOCATIONS AND EXTENTS.
 - SEE METAL BUILDING MANUFACTURER (M.B.M.) FOR SPECIFIC ANCHOR BOLT LOCATION DIMENSIONS.
 - SEE PLAN BUILDING NOTES ON S2 FOR DESIGN LIMITATIONS FOR ALLOWABLE DEFLECTIONS FOR THE BUILDING SUPERSTRUCTURE, (WHICH SHALL BE DESIGNED AND PROVIDED BY OTHERS).
 - TYPICAL BOTTOM OF FOOTING ELEVATION = 97'-0", U.N.O.
 - LATERAL BRACING SHOWN FOR THE BUILDING SHALL BE VERIFIED WITH M.B.M. DESIGN REQUIREMENTS. IF BRACING IS DIFFERENT THAN SHOWN IS REQ'D. BY M.B.M. THE ENGINEER SHALL BE NOTIFIED FOR POSSIBLE FOUNDATION REVISIONS.
 - FOUNDATIONS ARE DESIGNED FOR COLUMNS/GIRTS TO BE PROVIDED IN A 'FLUSH-PASS' FRAMED CONDITION AT SIDE-WALLS & ENDWALLS.
 - FINAL METAL BUILDING DRAWINGS SHALL BE PROVIDED TO THE ENGR. FOR REVIEW & APPROVAL BEFORE ANY CONSTRUCTION BEGINS.

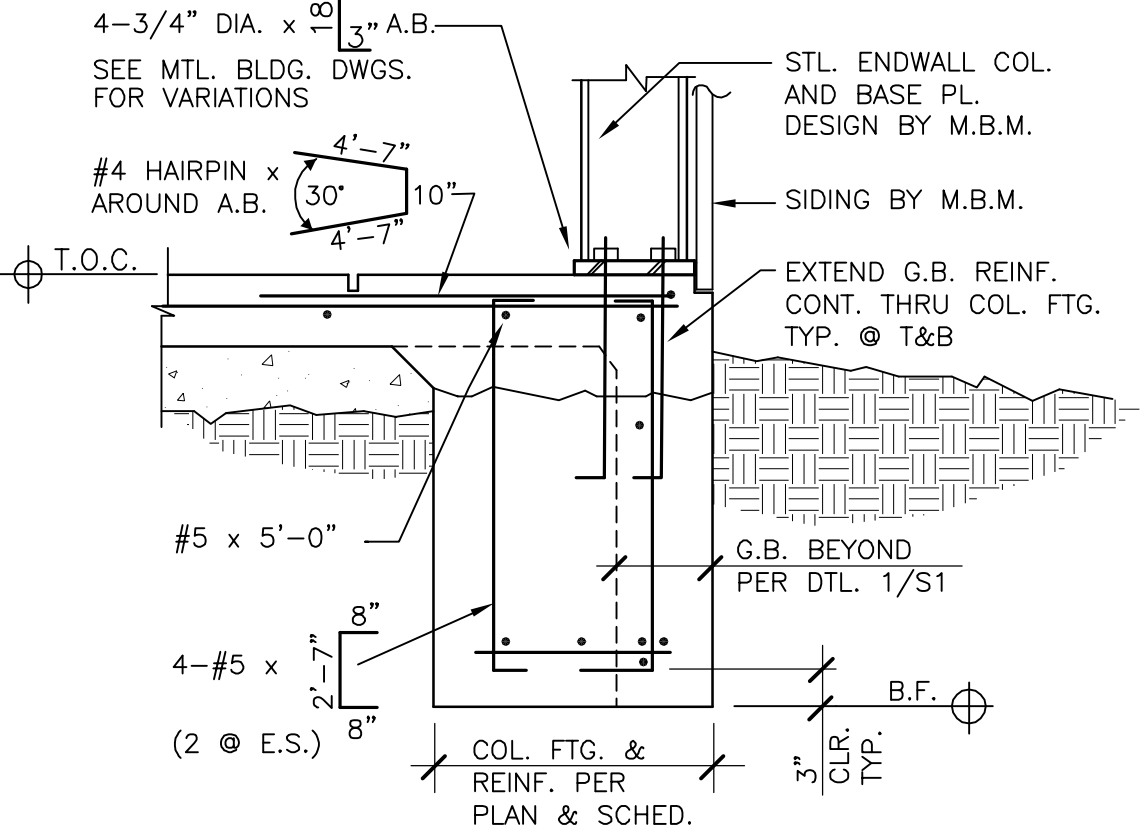
- FOUNDATION KEYED NOTES:
- (1) INTERIOR CONC. S.O.G. PER TYP. INT. S.O.G. NOTE ON THIS SHEET.
 - (2) EXTERIOR CONC. APRON/STOOP PER EXT. S.O.G. APRON NOTE ON THIS SHEET WITH THICKENED SLAB EDGES PER 8/S1. SIZE, LOCATION, & QUANTITY AS DIRECTED BY THE OWNER. SLOPE DOWN & AWAY FROM BUILDING @ 1/4" PER FT. PROVIDE CONTRACTION JOINTS @ 15 o.c. E.W.
 - (3) DOWEL STOOP/APRON TO SLAB EDGE w/ #4x24" @ 24" o.c. DOWELS INTO SLAB EDGE 6" MIN.

FOOTING SCHEDULE

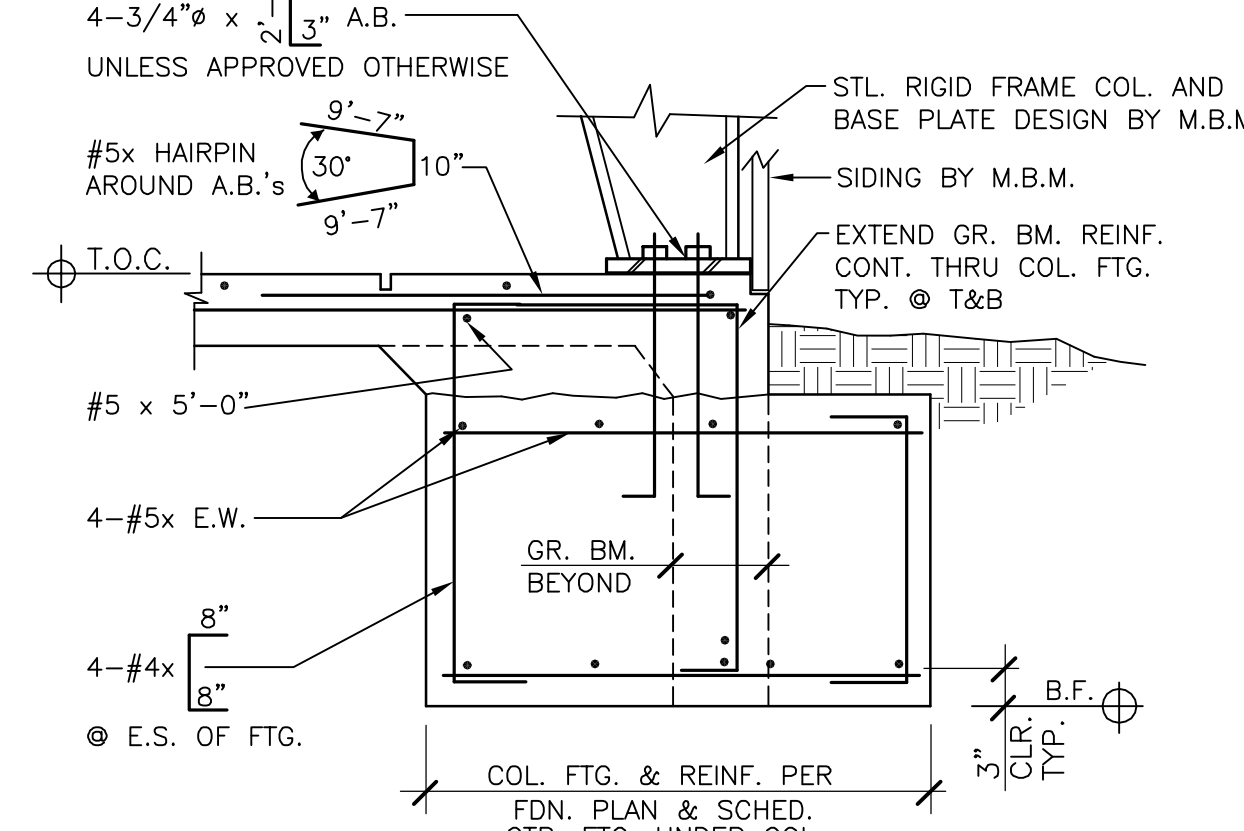
TYPE	SIZE	REINFORCEMENT
A	2'-0" x 3'-0" x 2'-2" THICK	#5 @ 8" o.c. E.W.
B	2'-6" x 2'-6" x 2'-2" THICK	4-#5 EACH WAY
C	2'-0" x 2'-0" x 2'-2" THICK	3-#5 EACH WAY



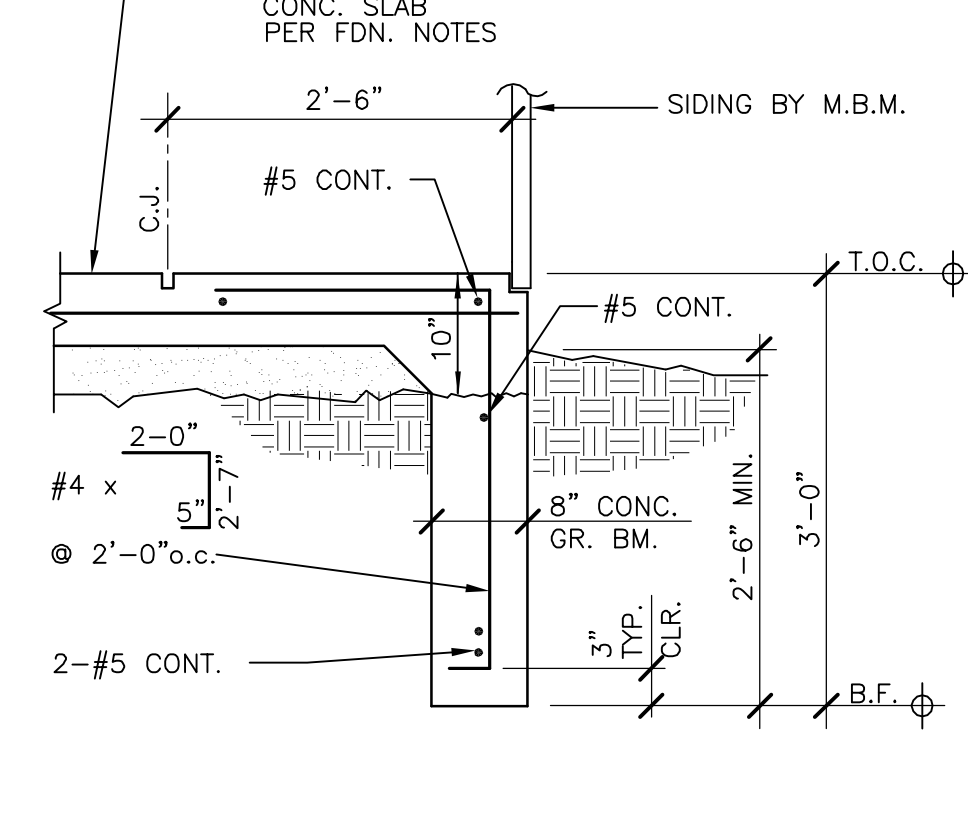
(4 S1) CORNER COL. FDN. FOR ENDWALL FRAMING



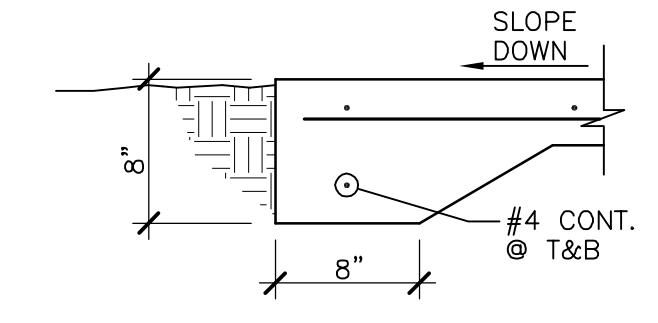
(3 S1) TYP. ENDWALL COL. FOUNDATION (FLUSH GIRT CONDITION)



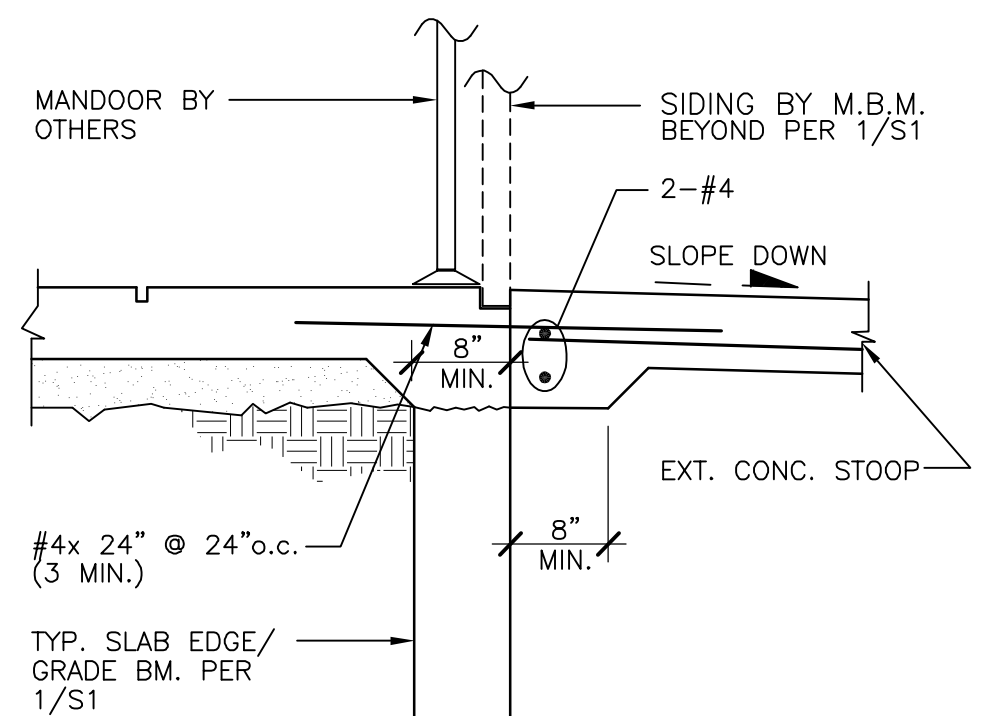
(2 S1) TYP. RIGID FRAME COLUMN FDN. (SECTION)



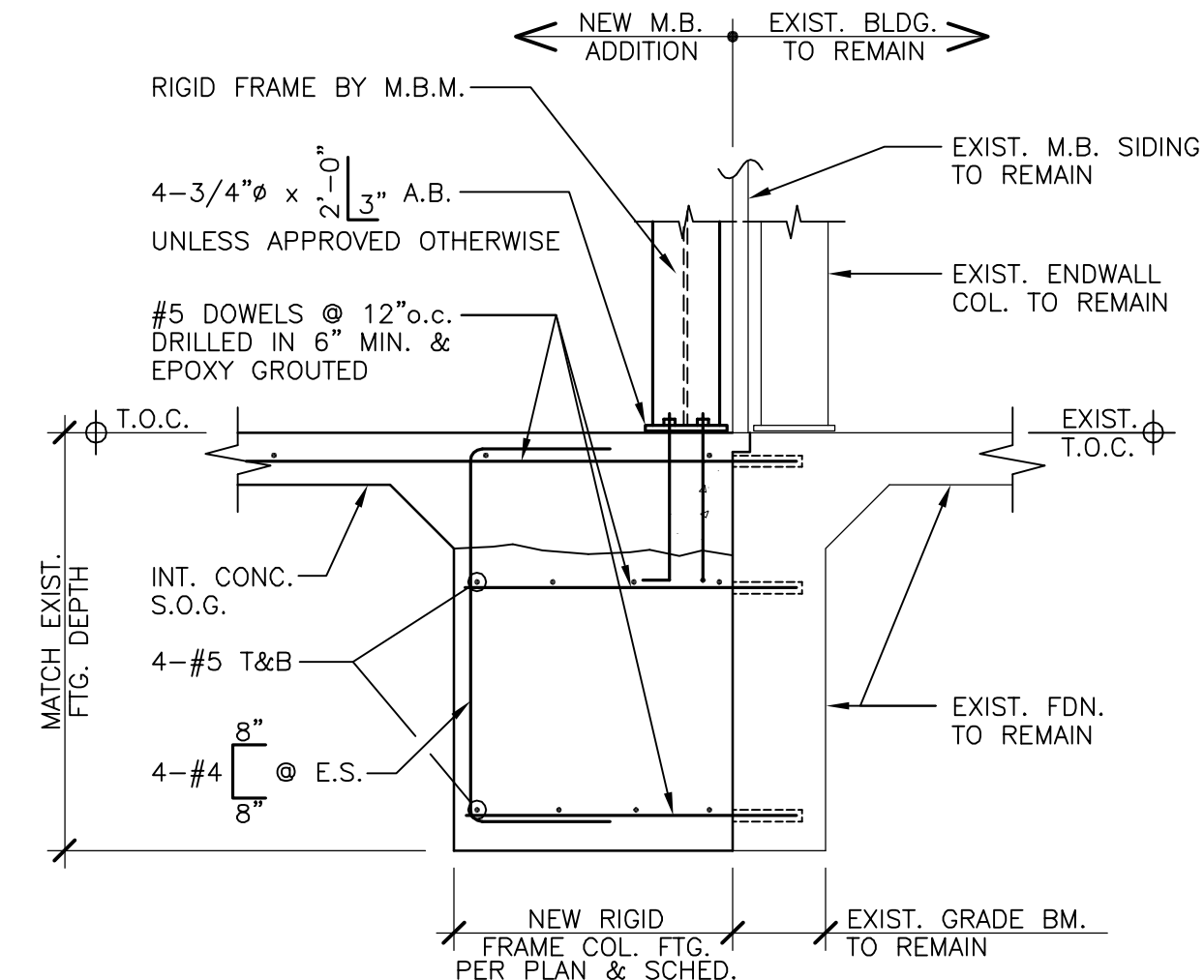
(1 S1) TYP. PERIMETER GRADE BEAM



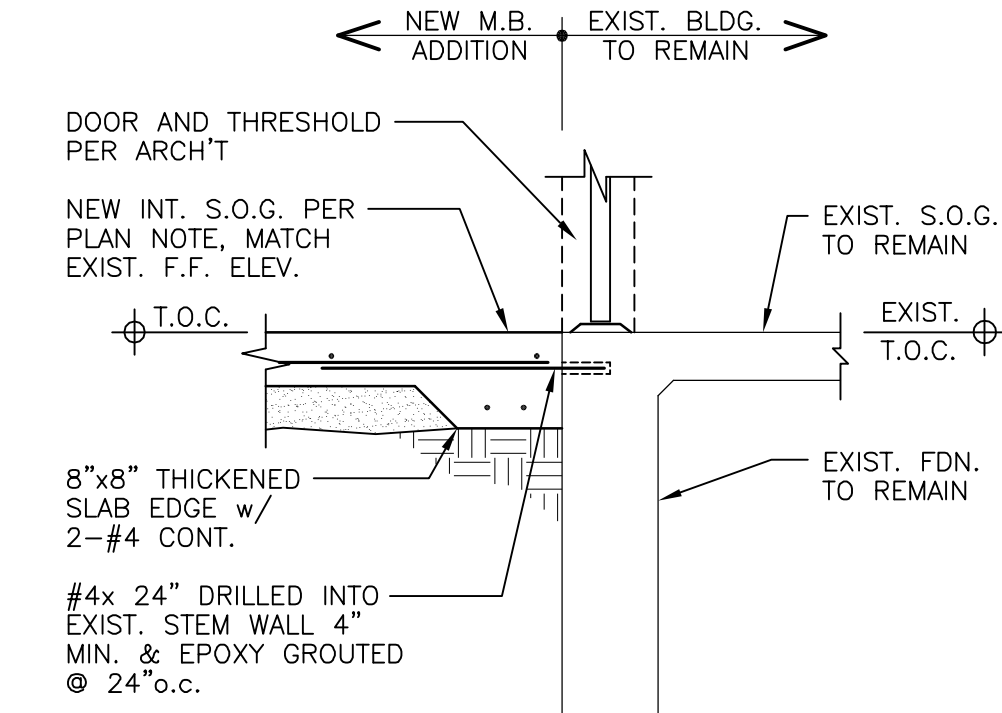
(8 S1) TYP. THICKENED SLAB EDGE @ APRONS & STOOPS



(7 S1) TYP. THRESHOLD @ MAN DOORS



(6 S1) NEW M.B. COL. FDN. ADJ. EXIST. COL. FDN.



(5 S1) NEW INT. S.O.G. & CONN. TO EXIST. FDN.

FINAL FOR CONSTRUCTION 4-8-2020

Tucker R. Stitzer
4-8-2020
NEW MEXICO PROFESSIONAL ENGINEER 20678

WILSON STRUCTURAL ENGINEERING, INC.
1235 THOROUGHCREED RD. DURANGO, CO 81303
Phone: (970) 385-6774

A PROPOSED FOUNDATION DESIGN FOR THE ADDITION:

LA PLATA FARM STATION #2
FARMINGTON, NEW MEXICO

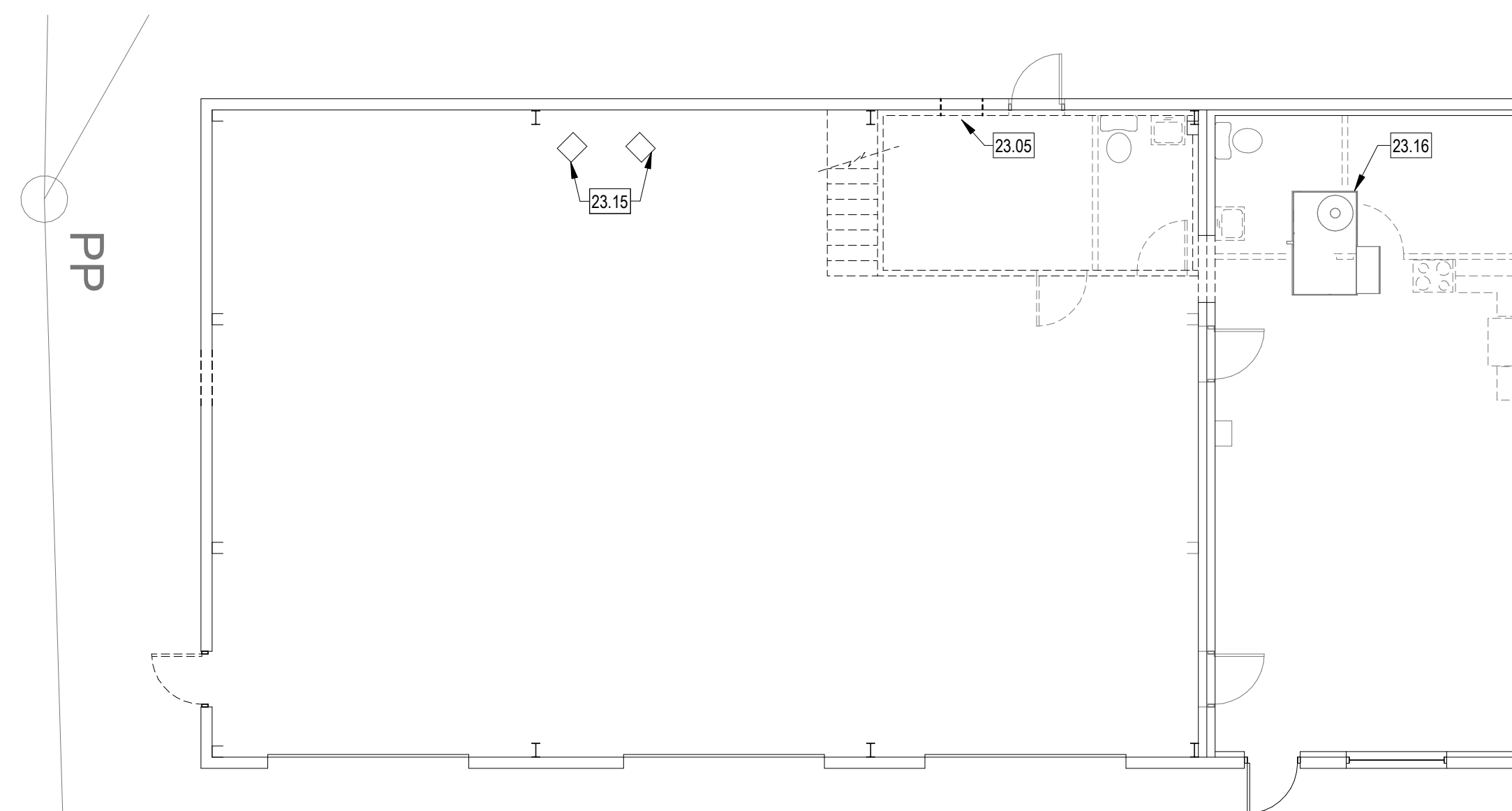
FOUNDATION PLAN & DETAILS

FILE NAME: 01720.S1
PROJECT: 01720
SHEET: 51 OF 52

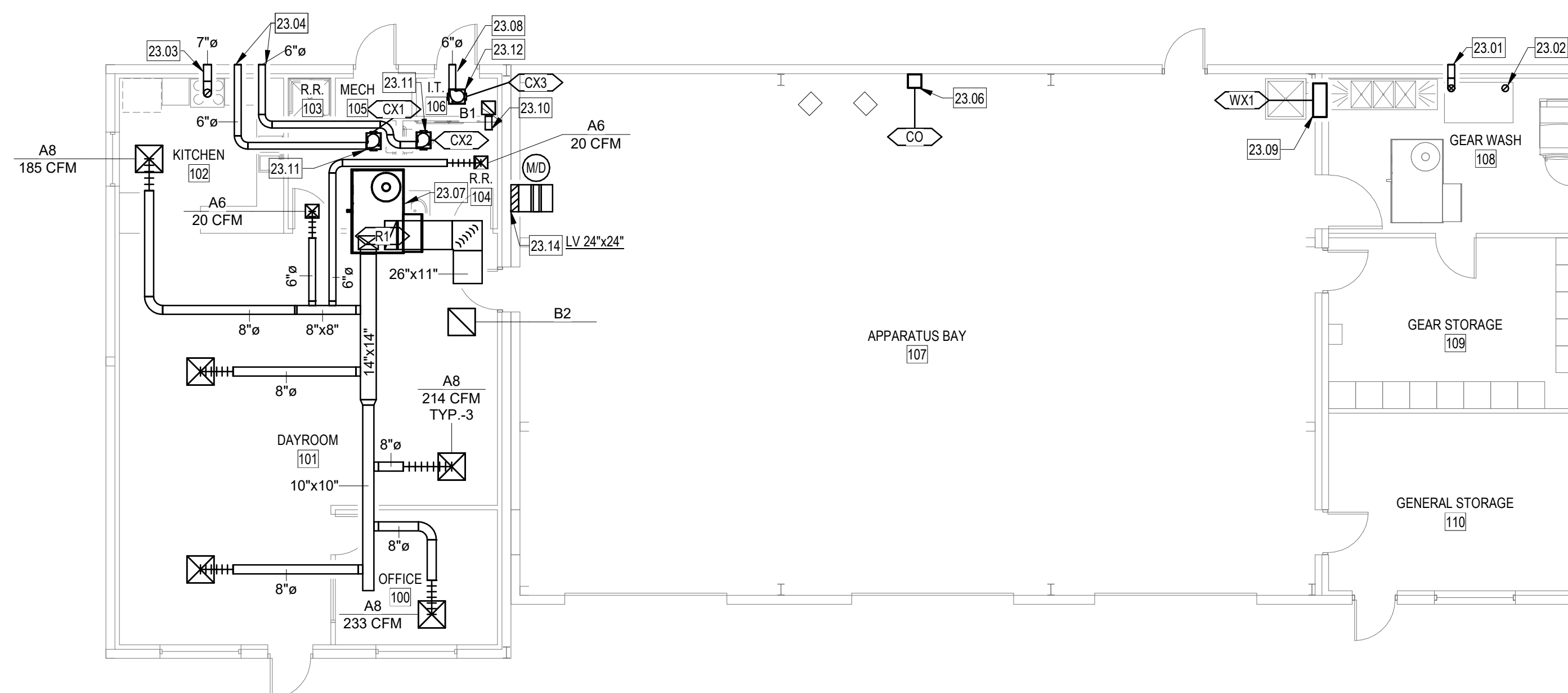
DRAWN: GW CHECKED: DW DATE: 4-8-2020

KEYED NOTES

23.01	ROUTE 6" DRYING CABINET INTAKE DUCT THROUGH SIDEWALL. TERMINATE PER MANUFACTURER'S INSTRUCTIONS.
23.02	ROUTE 6" DIAMETER DRYING CABINET EXHAUST DUCT THROUGH THE ROOF. TERMINATE PER MANUFACTURER'S INSTRUCTION.
23.03	ROUTE 7" KITCHEN EXHAUST HOOD DUCT THROUGH THE SIDEWALL. TERMINATE WITH WALL CAP WITH BIRDSCREEN AND BACKDRAFT DAMPER. SEE ARCHITECT FOR HOOD SPECIFICATION.
23.04	ROUTE 6" BATH EXHAUST DUCT THROUGH THE SIDEWALL. TERMINATE WITH WALL CAP WITH BIRDSCREEN AND BACKDRAFT DAMPER.
23.05	DEMO EXISTING THROUGH THE WALL AIR CONDITIONING UNIT. PATCH AND SEAL OPENING IN THE WALL.
23.06	CARBON MONOXIDE/NITROGEN DIOXIDE CONTROLLER WITH INTEGRAL 50' RADIUS SENSOR. CONNECT TO INTAKE LOUVER'S MOTORIZED DAMPER (MD). DAMPER TO OPEN UP ACTIVATION. CONNECT TO WALL EXHAUSTER (WX). WX TO START UPON ACTIVATION.
23.07	ROOFTOP UNIT LOCATED ON ROOF ABOVE. SEE ROOFTOP UNIT DETAIL ON M500.
23.08	ROUTE 6" I.T. EXHAUST DUCT THROUGH THE SIDEWALL. TERMINATE WITH WALL CAP WITH BIRDSCREEN AND BACKDRAFT DAMPER.
23.09	WALL EXHAUSTER (WX) TO BE ACTIVATED BY THE COINQ2 CONTROLLER. INTERCONNECT WITH MOTORIZED DAMPER ON INTAKE LOUVER. LOCATE HIGH ON WALL. LOCATE MINIMUM 10' AWAY FROM EXISTING ROOFTOP UNIT.
23.10	6" RELIEF DUCT. ROUTE TO PLENUM AND TERMINATE.
23.11	CEILING EXHAUSTER TO BE CONTROLLED BY WALL SWITCH.
23.12	THERMOSTAT TO CONTROL CEILING EXHAUSTER.
23.14	LOCATE LOUVER HIGH ON WALL ABOVE ROOF OF NEW ADDITION. MAINTAIN 10' CLEARANCE FROM R1 ROOFTOP UNIT.
23.15	EXISTING UNIT HEATERS IN APPARATUS BAY TO REMAIN.
23.16	EXISTING ROOFTOP UNIT TO REMAIN.



MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"



MECHANICAL FLOOR PLAN
1/8" = 1'-0"

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Farmington, NM 87401
Phone: (505) 326-6442

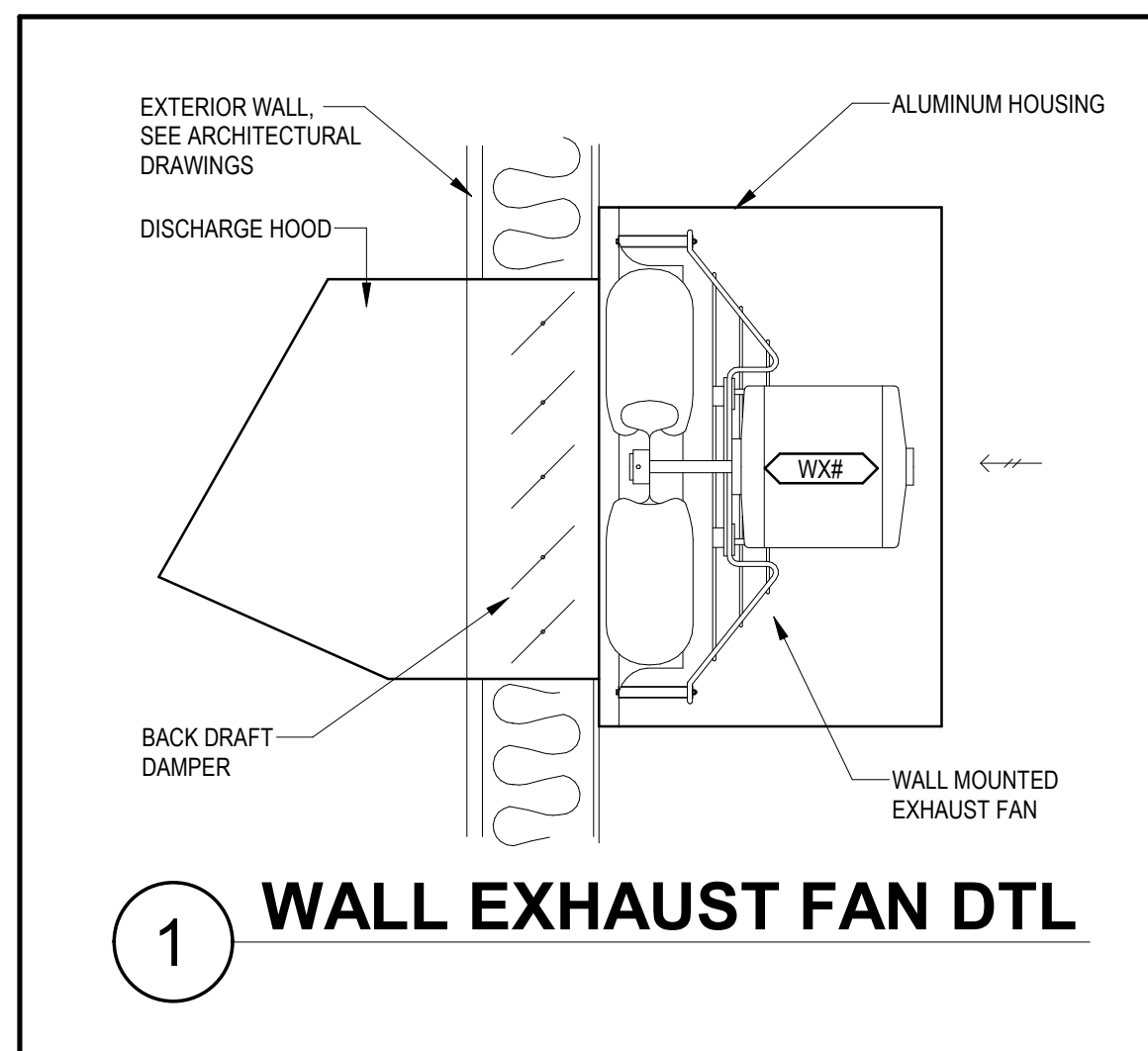


LA PLATA FIRESTATION #2 SAN JUAN COUNTY

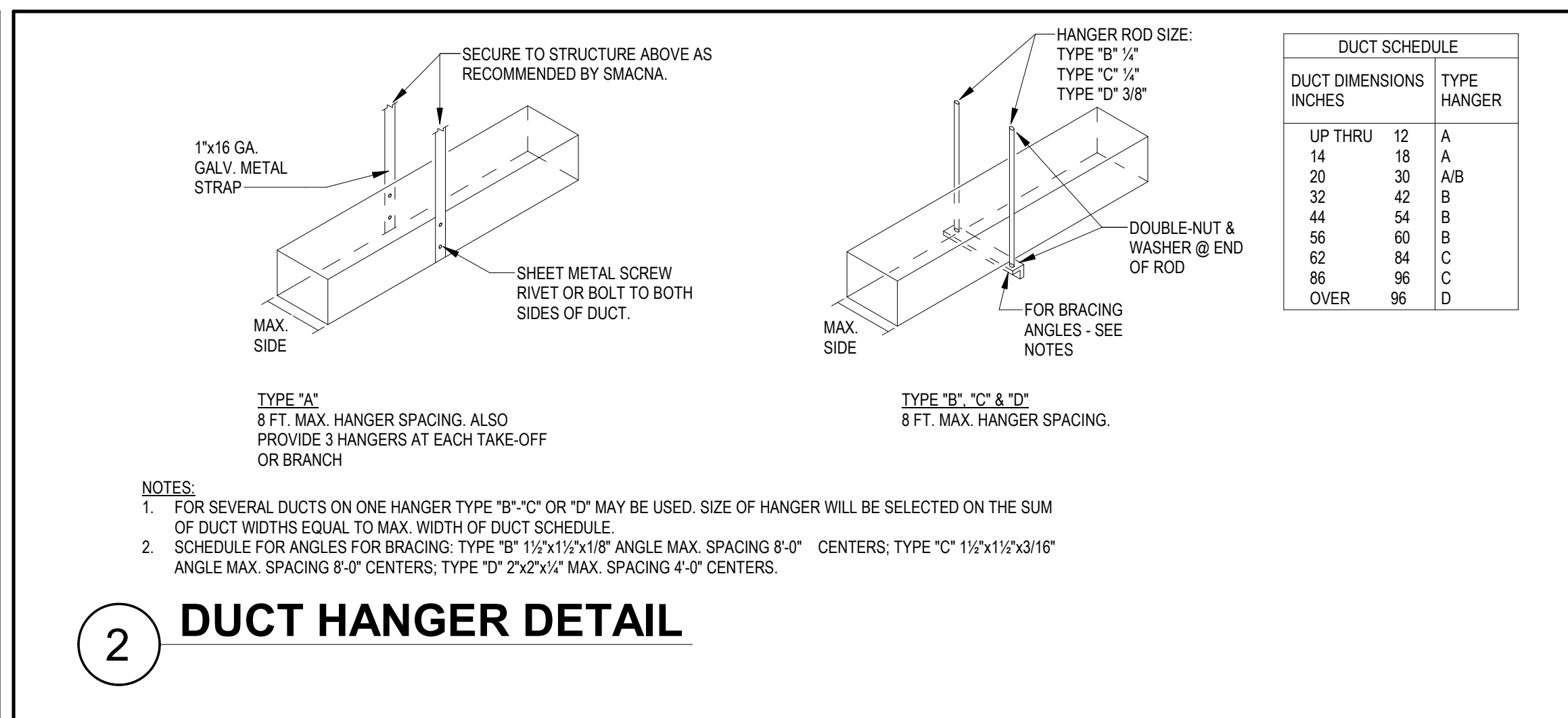
MECHANICAL FLOOR PLAN
Drawn: JB Checked: DS Date: 04-13-2020

Filename:
Project: 20.10
Sheet: M101
Of:

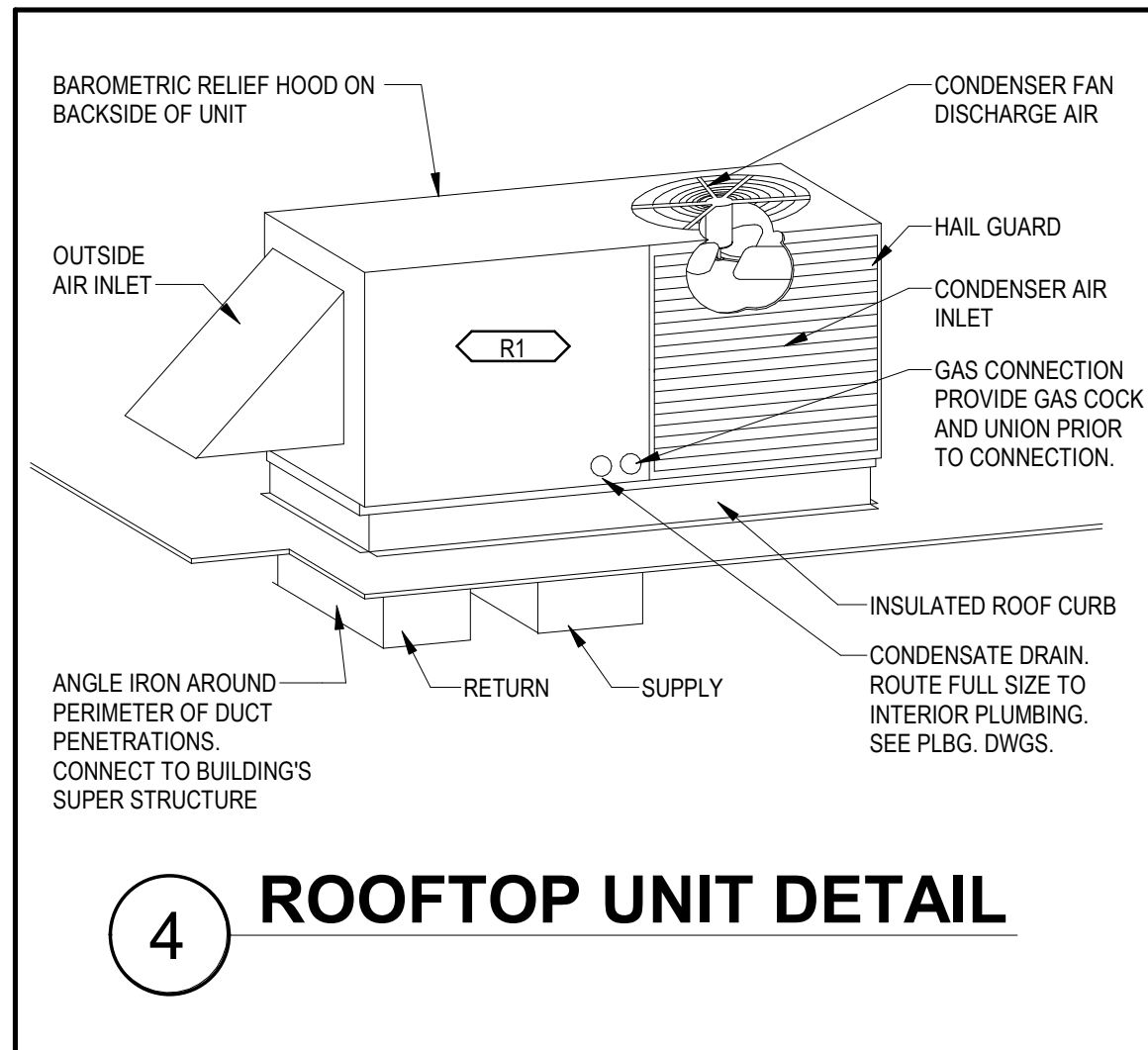
04-13-2020



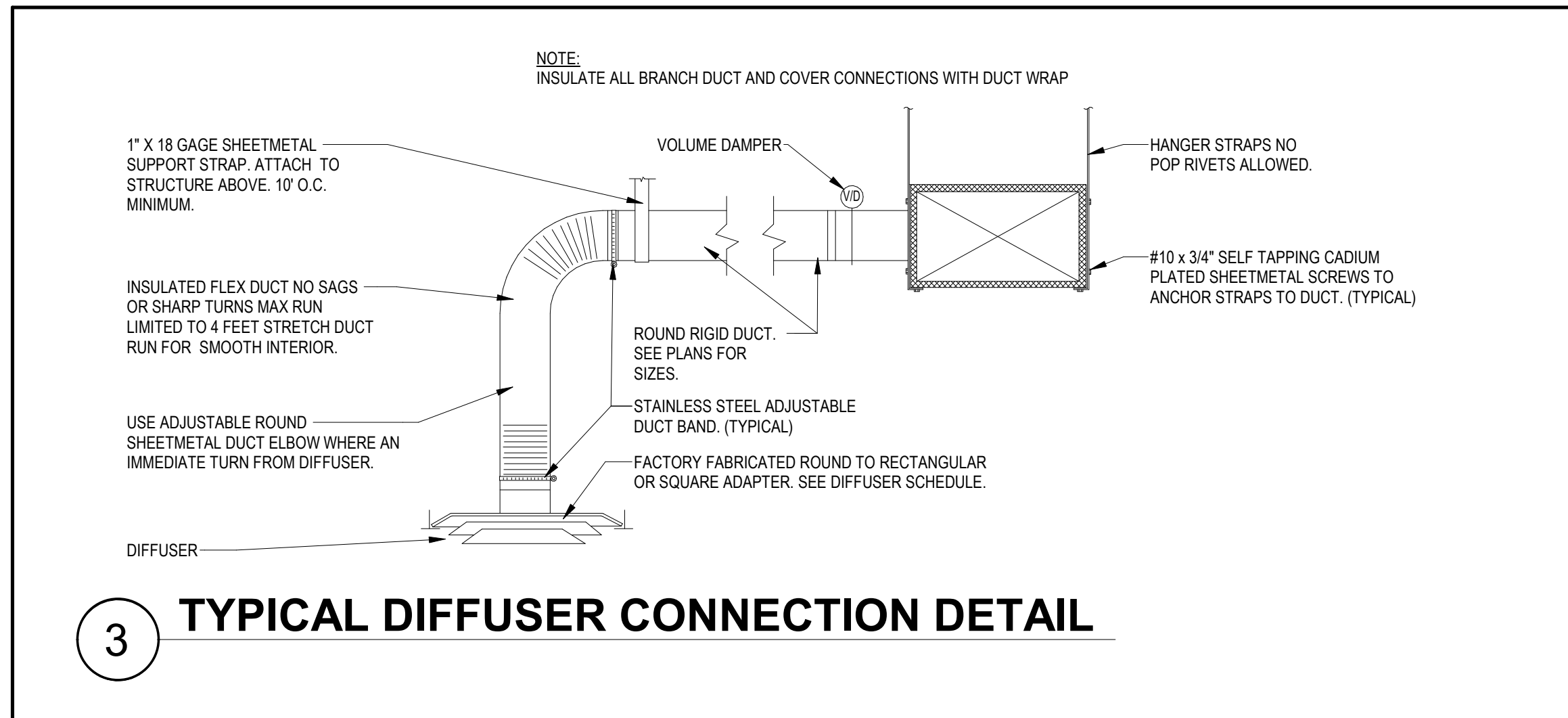
1 WALL EXHAUST FAN DTL



2 DUCT HANGER DETAIL



4 ROOFTOP UNIT DETAIL



3 TYPICAL DIFFUSER CONNECTION DETAIL

MECHANICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION
A6	DIFFUSER DESIGNATION
CFM	UNIT DESIGNATION
23.00	KEYED NOTE
C	POINT OF CONNECTION
HWS	CONDENSATE DRAIN
HWS	HEAT PUMP WATER SUPPLY
HWR	HEAT PUMP WATER RETURN
▼	GAS COCK
⊠	THERMOMETER
⊠	PLUG, CIRCUIT SETTER OR GAUGE COCK
⊠	CHECK VALVE
⊠	2-WAY VALVE
⊠	3-WAY VALVE
⊠	RELIEF VALVE
⊠	BUTTERFLY VALVE
⊠	BALL VALVE
⊠	STRAINER
⊠	UNION
⊠	GATE VALVE
⊠	SOLENOID
⊠	PRV
⊠	REDUCED PRESSURE BACKFLOW PREVENTER
⊠	CLEAR INSIDE DUCT DIMENSION (NEW)
⊠	SUPPLY DIFFUSER
⊠	RETURN GRILLE
⊠	SIDEWALL SUPPLY
⊠	SIDEWALL RETURN
(M/D) (F/D) (F/S) (V/D)	MOTORIZED, FIRE, FIRE/SMOKE OR VOLUME DAMPER
T R H	THERMOSTAT, REMOTE SENSOR OR HUMIDISTAT
CO	CARBON MONOXIDE SENSOR

NOTE: SYMBOLS ILLUSTRATED ABOVE MAY NOT APPEAR ON THE PLANS

- ### MECHANICAL GENERAL NOTES
- PROVIDE AND INSTALL ALL MATERIAL AND EQUIPMENT AS REQUIRED BY UPC, UMC, NFPA, LIFE SAFETY CODE, GAS CODE, AND ALL OTHER LOCAL CODES AND ORDINANCES THAT APPLY. WHERE THERE IS A DISCREPANCY BETWEEN THE CODES OR ORDINANCES AND THE DRAWINGS, THE MORE STRINGENT APPLICATION SHALL APPLY.
 - LAYOUT AND INSTALL COMPLETE AND FUNCTIONAL MECHANICAL SYSTEMS, INCLUDING TEMPORARY CUTOFF OF EXISTING UTILITIES, PERFORM ALL CUTTING, PATCHING, AND REPAIR ASSOCIATED WITH INSTALLING THE SYSTEMS.
 - VIBRATIONALLY ISOLATE ALL EQUIPMENT AND PIPING FROM THE BUILDING STRUCTURE. COORDINATE TO ASSURE THAT AS QUIET AN OPERATING SYSTEM AS POSSIBLE IS INSTALLED.
 - VERIFY THAT DIFFUSERS, REGISTERS, GRILLES, DUCTWORK AND ALL EQUIPMENT SPECIFIED IS CORRECT FOR FIELD INSTALLATION BEFORE ORDERING OR FABRICATING. PROVIDE A WRITTEN REQUEST FOR INFORMATION TO THE ENGINEER FOR A RULING ON HOW TO PROCEED IF CONDITIONS EXIST THAT WILL NOT ALLOW FOR THE INSTALLATION OF THE EQUIPMENT SPECIFIED.
 - PROVIDE ALL DUCTWORK CONNECTIONS AND TRANSITIONS AT GRILLES, DIFFUSERS, REGISTERS, FILTERS, COILS, AND OTHER LOCATIONS WHERE REQUIRED. CONSTRUCT ALL TRANSITIONS AND CONNECTIONS ACCORDING TO SMACNA STANDARDS.
 - PROVIDE AND INSTALL DAMPERS IN THE BRANCH DUCTS, NEAR THE MAIN, SERVING DIFFUSERS AND GRILLES TO ALLOW PLUS OR MINUS 10% OF THE CFM REQUIRED FROM EACH DIFFUSER AND REGISTER AS LISTED ON THE PLANS.
 - TESTING AND BALANCING AGENCY: PROVIDE AND INSTALL SHEAVES AND ALL EQUIPMENT NECESSARY TO PROVIDE PLUS OR MINUS 10% OF THE CFM REQUIRED FROM EACH DIFFUSER AND REGISTER.
 - COORDINATE WORK WITH THE GENERAL CONTRACTOR TO HAVE THE ROOFTOP EQUIPMENT, DUCTWORK, AND INSULATION JACKETS PAINTED TO THE ARCHITECT'S REQUIREMENTS.
 - PROVIDE AND INSTALL ALL MECHANICAL EQUIPMENT, TRANSFORMERS, RELAYS, AND OTHER ELEMENTS NECESSARY FOR A COMPLETE OPERATING SYSTEM. COMPLETE ALL 24 VOLT CONTROL WIRING AND EQUIPMENT TO THE ABOVE. ALL LINE VOLTAGE WIRING TO THE ABOVE SHALL BE COMPLETED BY THE ELECTRICAL CONTRACTOR. REFER TO COORDINATION SCHEDULE ON ELECTRICAL DRAWINGS.
 - ALTER DIMENSIONS OF THE DUCTWORK IN THE CEILING SPACE FROM SIZES INDICATED ON THE DRAWINGS AT SPECIFIC LOCATIONS WHEN NECESSARY TO FIT THE DUCTWORK IN THE SPACE PROVIDED. REROUTE DUCTWORK IN CEILING SPACE TO AVOID OTHER MECHANICAL EQUIPMENT LIGHT FIXTURES, ETC. MAINTAIN THE SAME FREE AREA AND SUBMIT PROPOSED CHANGES TO THE ENGINEER FOR APPROVAL. BE RESPONSIBLE FOR VERIFYING SPACE LIMITATIONS BEFORE DUCTWORK FABRICATION AND MAKE CHANGES ACCORDINGLY. PROVIDE ALL NECESSARY TRANSITIONS.
 - COORDINATE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LAYOUT OF DIFFUSERS, GRILLES AND CEILING MOUNTED EQUIPMENT.
 - PROVIDE ACOUSTICAL LINER ON ALL SOUND TRAPS AT ALL RETURN AIR GRILLES. PROVIDE ACOUSTICAL LINER ON ALL TRANSFER DUCTS.
 - REVIEW THE MECHANICAL/ELECTRICAL COORDINATION SCHEDULE ON THE ELECTRICAL DRAWINGS FOR CLARIFICATION OF WORK BETWEEN DISCIPLINES.
 - PROVIDE TURNING VANES IN ALL RECTANGULAR DUCTWORK AT ELBOWS AND TEES WHETHER SHOWN ON THE PLANS OR NOT. THE ONLY EXCEPTION IS RETURN AIR TRANSFER DUCTS BETWEEN ROOMS.
 - FIELD VERIFY THAT ALL NEW DUCTWORK CAN FIT WITHIN THE SPACE PROVIDED PRIOR TO FABRICATING ANY NEW DUCTWORK. EXISTING DUCTWORK SHOWN IS FROM ORIGINAL AS-BUILT DRAWINGS AND NOT ALL CONFIGURATIONS HAVE BEEN VERIFIED.
 - PROVIDE DUCT SMOKE DETECTORS, SHUTDOWN CONTROLS, AND AUDIBLE/VISIBLE NOTIFICATION DEVICES PER MECHANICAL CODE AND BUILDING CODE WHERE REQUIRED. COORDINATE CONNECTION TO BUILDING FIRE ALARM SYSTEM, IF REQUIRED.

ROOFTOP UNIT SCHEDULE

ROOFTOP UNIT: 14.0 SEER, SINGLE ZONE, CONSTANT VOLUME, NATURAL GAS FIRED, R-410A ELECTRIC COOLING, LOUVERED HAIL GUARD, 5,500' ASL HIGH ALTITUDE HEATING, SINGLE STAGE SCROLL COMPRESSOR, 2-STAGE HEATING, ALUMINUM HEAT EXCHANGER, BAROMETRIC RELIEF, DRY-BULB ECONOMIZER, ECM DIRECT DRIVE SUPPLY FAN, INTEGRAL DISCONNECT SWITCH, INTEGRAL CONVENIENCE OUTLET, CO2 SENSOR, HINGED ACCESS DOORS, 1" MERV 8 FILTERS AND RACK, PROGRAMMABLE THERMOSTAT, AMBIENT CONDITIONS = 94°F/63°F COOLING, "CARRIER"

UNIT NO.	MODEL	COOLING			ESP	OSA CFM	EAT DB	EAT WB	INLET (WxH)	OUTLET (WxH)	DISCHARGE	WEIGHT LBS.	ELECTRICAL			
		CFM	MBH	MBH									MCA	MOCP	VOLTS	PHASE
R1	48FCTA04A2	1100	29	67	1	140	83 °F	63 °F	26"x11"	18"x12"	DOWN	678	24	30	208 V	3
R1	48FCTA04A2	1100	29	67	1	140	83 °F	63 °F	26"x11"	18"x12"	DOWN	678	24	30	208 V	3

DIFFUSER SCHEDULE

A CEILING DIFFUSER: 4-WAY, ADJUSTABLE VERTICAL/HORIZONTAL THROW STEEL CEILING DIFFUSER, ROUND NECK. SEE PLAN FOR CFM, CEILING TYPE, FACE AND NECK SIZE. NC-30. *KRUEGER" 1450A

B CEILING RETURN GRILLE: EGG-CRATE STYLE, 24"x24" FACE UNLESS OTHERWISE INDICATED ON THE PLANS. SEE PLAN FOR SIZE, CFM AND CEILING TYPE. PROVIDE OBD WHEN GRILLE IS USED FOR EXHAUST. NC-30. *KRUEGER" MODEL EGC-5

LV LOUVER: ALUMINUM, WEATHER RESISTANT BLADE DESIGN. COLOR PER ARCHITECT. A MINIMUM OF 0.10 OZ. OF WATER CARRY-OVER AT 1023FPM FREE AREA VELOCITY AND 0.185"W.C. PRESSURE DROP. *RUSKIN" ELF6375DXH

CEILING EXHAUSTER SCHEDULE

CEILING EXHAUSTER: CEILING MOUNTED FAN WITH INTEGRAL ALUMINUM GRILLE, VIBRATION ISOLATORS, HANGING RODS AND BACKDRAFT DAMPER. "COOK"

UNIT NO.	MODEL	CFM	ESP ("W.C.)	ELECTRICAL			CONTROL
				WATTS	VOLTS	PHASE	
CX1	GC-148	127	0.25	38	115 V	1	WALL SWITCH
CX2	GC-148	127	0.25	38	115 V	1	WALL SWITCH
CX3	GC-166	140	0.25	40	115 V	1	THERMOSTAT

CONTROLLER SCHEDULE

CO CARBON MONOXIDE/NITROGEN DIOXIDE CONTROLLER: DIGITAL CONTROLLER WITH PROGRAMMING INTERFACE. TWO 24V OUTPUT RELAYS TO CONTROL FAN AND DAMPER. FIVE INPUT CONTACTS. PROVIDE REMOTE COMBINATION CO/NO2 SENSORS WITH MANUAL OVERRIDE CAPABILITIES. 120V/1A. *ARMSTRONG" AMC-1AD1

WALL EXHAUSTER SCHEDULE

WALL EXHAUSTER: ALUMINUM FAN IN ALUMINUM HOUSING, BIRDSCREEN, CARBON MONOXIDE SENSOR CONTROL AND BACKDRAFT DAMPER. "COOK"

UNIT NO.	MODEL	CFM	ESP ("W.C.)	ELECTRICAL			WEIGHT (LBS.)
				HP	VOLTS	PHASE	
WX1	20XMP	1710	0.25	1/3	115 V	1	106

DAMPER SCHEDULE

M/D MOTORIZED DAMPER: EXTRUDED ALUMINUM OPPOSED BLADE WITH BELIMO 24V POWER, 0-10VDC CONTROL INPUT, SPRING RETURN ACTUATOR. CLASS 1 MAXIMUM LEAKAGE RATE AT 4 CFM PER SQ. FT. AT 1.0"W.C. AMCA-500D TESTED. PROVIDE 120V/24V TRANSFORMER. *RUSKIN" MODEL TED50

V/D VOLUME DAMPER: GALVANIZED STEEL, PARALLEL BLADE, LOCKING QUADRANT. *RUSKIN" MDRS25

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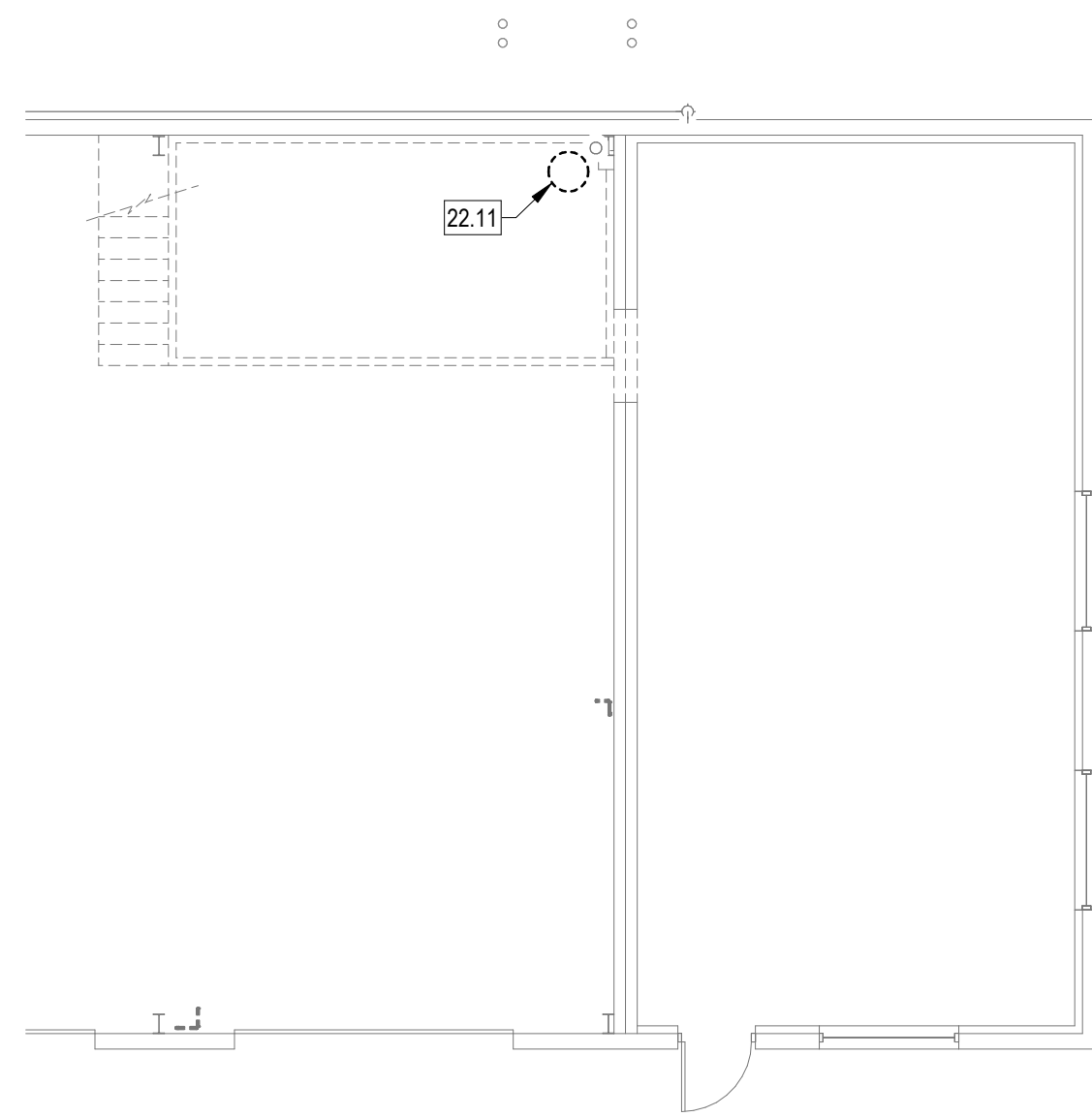
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MECHANICAL DETAILS AND SCHEDULES

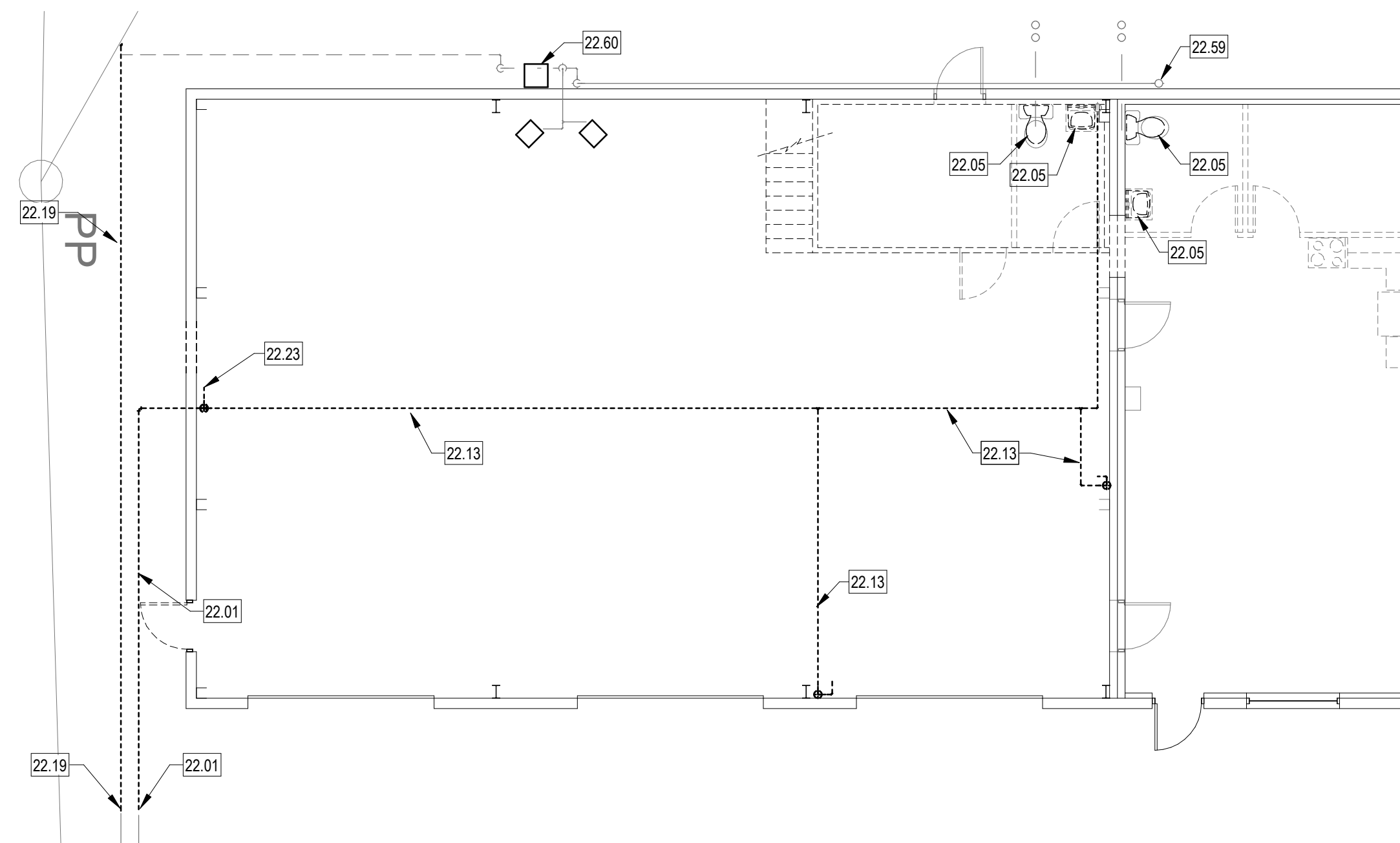
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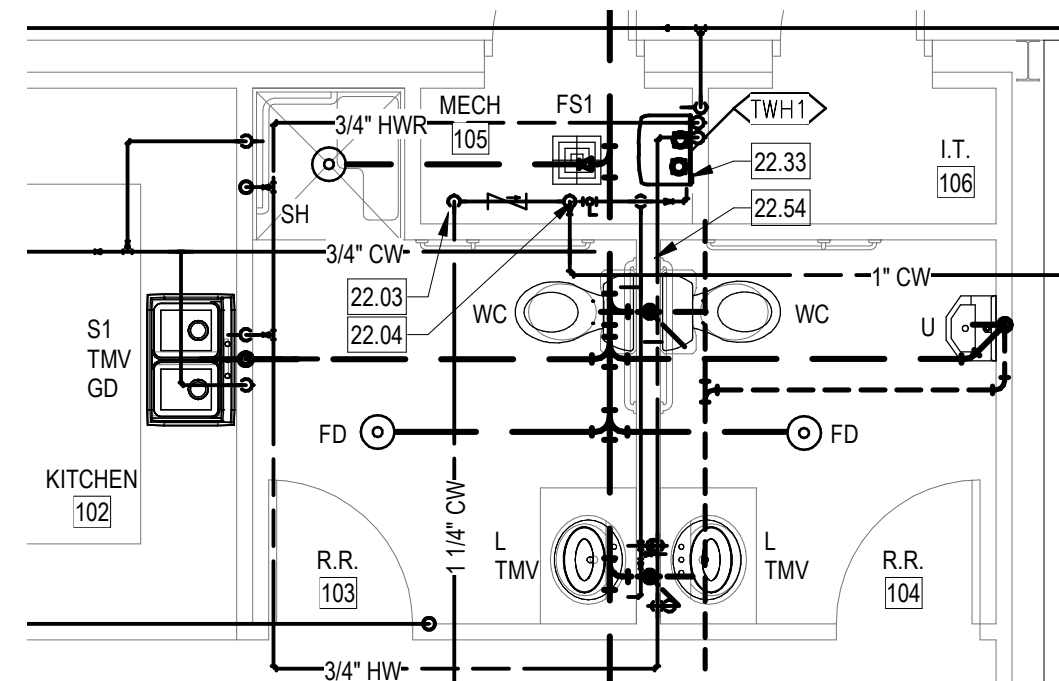


2 PLUMBING DEMOLITION PLAN - MEZZANINE
1/8" = 1'-0"

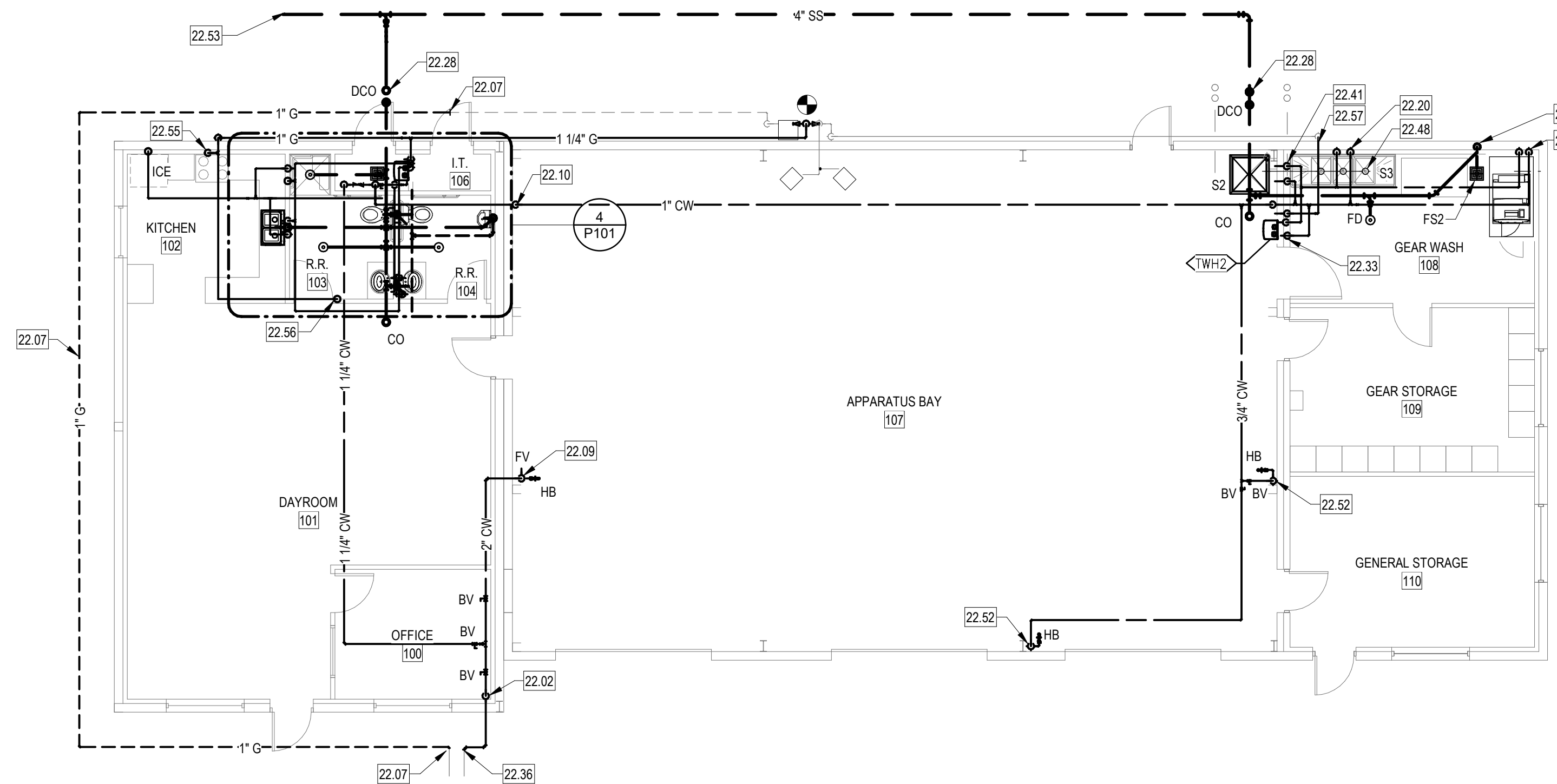


1 PLUMBING DEMOLITION PLAN
1/8" = 1'-0"


KEYED NOTES	
22.01	REMOVE EXISTING 2" CW BELOW NEW ADDITION BACK TO POINT OF NEW CONNECTION.
22.02	2" CW RISE TO STRUCTURE OVERHEAD.
22.03	1-1/4" CW DROP TO NEW WATER ENTRANCE. SEE DETAIL.
22.04	1-1/4" CW FROM WATER ENTRANCE. OFFSET 3/4" CW TO PLUMBING CHASE, 3/4" CW TO WATER HEATER (TWH1) AND 1" CW RISE TO ABOVE CEILING.
22.05	REMOVE EXISTING PLUMBING FIXTURE. CAP WASTE BELOW FINISHED FLOOR. REMOVE WATER AND VENT PIPING AS INDICATED.
22.07	REROUTE GAS SERVICE LINE AROUND NEW ADDITION BY UTILITY COMPANY. PLUMBING CONTRACTOR TO COORDINATE WITH UTILITY COMPANY SERVICE REROUTE AND A NEW LOAD OF 700 CFH.
22.09	2" CW DROP SECURED TO WALL TO FILL VALVE (FV) MOUNTED AT 32" ABOVE FLOOR. COORDINATE VALVE THREAD PATTERN WITH OWNER.
22.10	1" CW RISE TO HIGH STRUCTURE.
22.11	REMOVE EXISTING ELECTRIC WATER HEATER AND ASSOCIATED PIPING. CAP AND ABANDON COLD WATER SUPPLY BELOW FINISHED FLOOR. COORDINATE FLOOR PATCH WITH GENERAL CONTRACTOR.
22.13	FIELD VERIFY EXISTING WATER DISTRIBUTION PIPE ROUTING. DISCONNECT, PURGE, CAP AND ABANDON BELOW FLOOR WATER PIPING. SEE NEW WORK PLAN FOR NEW CONNECTIONS.
22.19	REMOVE EXISTING GAS SERVICE LINE BELOW NEW ADDITION.
22.20	3/4" CW, 3/4" HW DROP TO SINK (S3) FAUCETS. SEE DETAIL.
22.21	3/4" CW, 3/4" HW DROP TO WASHER EXTRACTOR AND FULL SIZE INDIRECT WASTE TO FLOOR SINK. TERMINATE WITH ELBOW TURNED DOWN. PROVIDE WATER HAMMER ARRESTERS (WHA) ON DROPS.
22.23	REMOVE EXISTING 2" FILL VALVE. SEE NEW WORK PLAN FOR REPLACEMENT.
22.28	2-WAY GRADE CLEANOUT. SEE DETAIL.
22.32	4" SS DOWN AND 2" V RISE FROM FLOOR SINK.
22.33	3/4" CW DROP, 3/4" HW RISE FROM WATER HEATER. ROUTE 2" PVC FLUE AND INTAKE THROUGH ROOF. TERMINATE WITH FACTORY VENT KIT. SEE WATER HEATER DETAIL SHEET P501.
22.36	NEW 2" CW CONNECTION TO EXISTING ON SITE. EXTEND TO NEW ADDITION AND RISE TO ABOVE CEILING.
22.41	3/4" CW, 3/4" HW DROP, 3" SS DOWN AND 2" V RISE FROM MOP SINK (S2).
22.48	CONNECT 2" W FROM EACH SINK (S2) COMPARTMENT. ROUTE TO MOP SINK. TERMINATE WITH ELBOW TURNED DOWN.
22.52	3/4" CW DROP TO HOSE BIB MOUNTED AT 24" ABOVE FLOOR.
22.53	RUN 4" SEWER LINE 10' FROM BUILDING. SEE CIVIL FOR CONTINUATION.
22.54	1" CW AND 3/4" HW.
22.55	3/4" GAS ROUGH IN FOR OVEN.
22.56	3/4" GAS UP TO R1 ROOFTOP UNIT.
22.57	CONNECT TWH2 TO EXISTING GAS LINE. IF EXISTING GAS LINE IS LESS THAN 1-1/4" INSTALL NEW 1-1/4" GAS LINE TO SERVE TWH2 AND EXISTING ROOFTOP UNIT.
22.59	EXISTING GAS LINE UP TO EXISTING ROOFTOP UNIT.
22.60	EXISTING GAS METER TO REMAIN.



4 ENLARGED PLUMBING FLOOR PLAN
1/4" = 1'-0"



3 PLUMBING FLOOR PLAN
1/8" = 1'-0"



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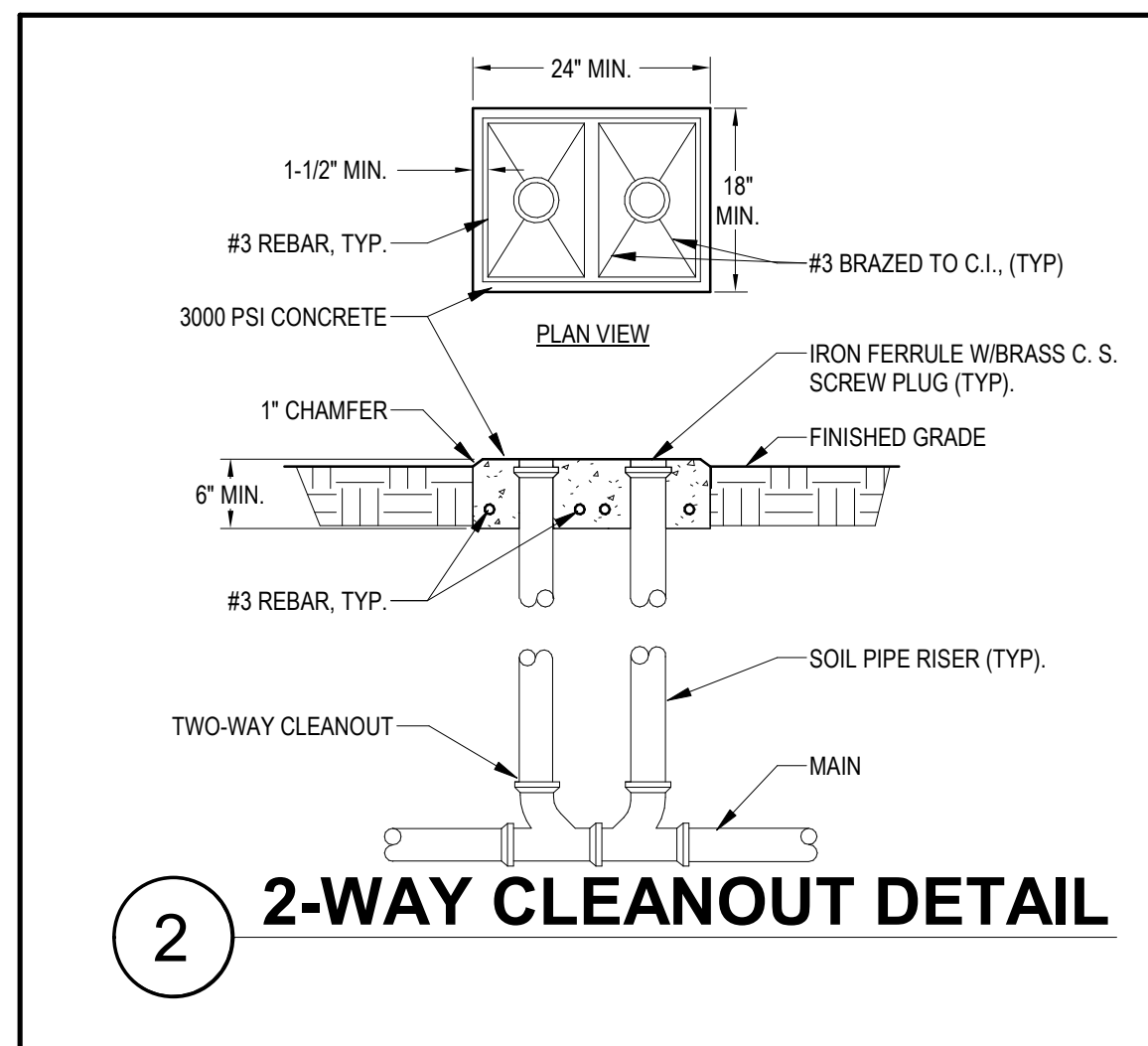
**LA PLATA
FIRESTATION #2
SAN JUAN COUNTY**

PLUMBING PLANS

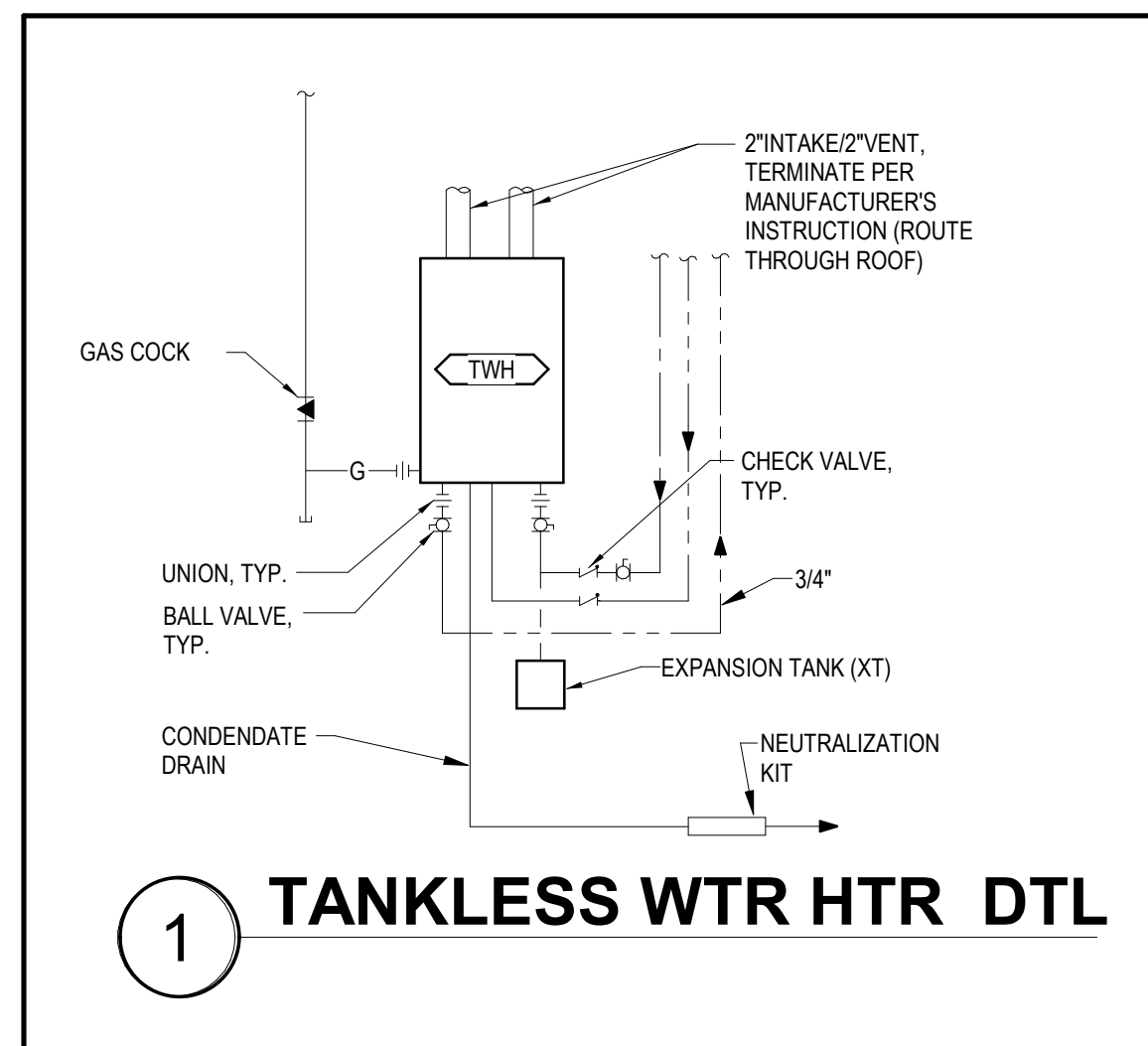
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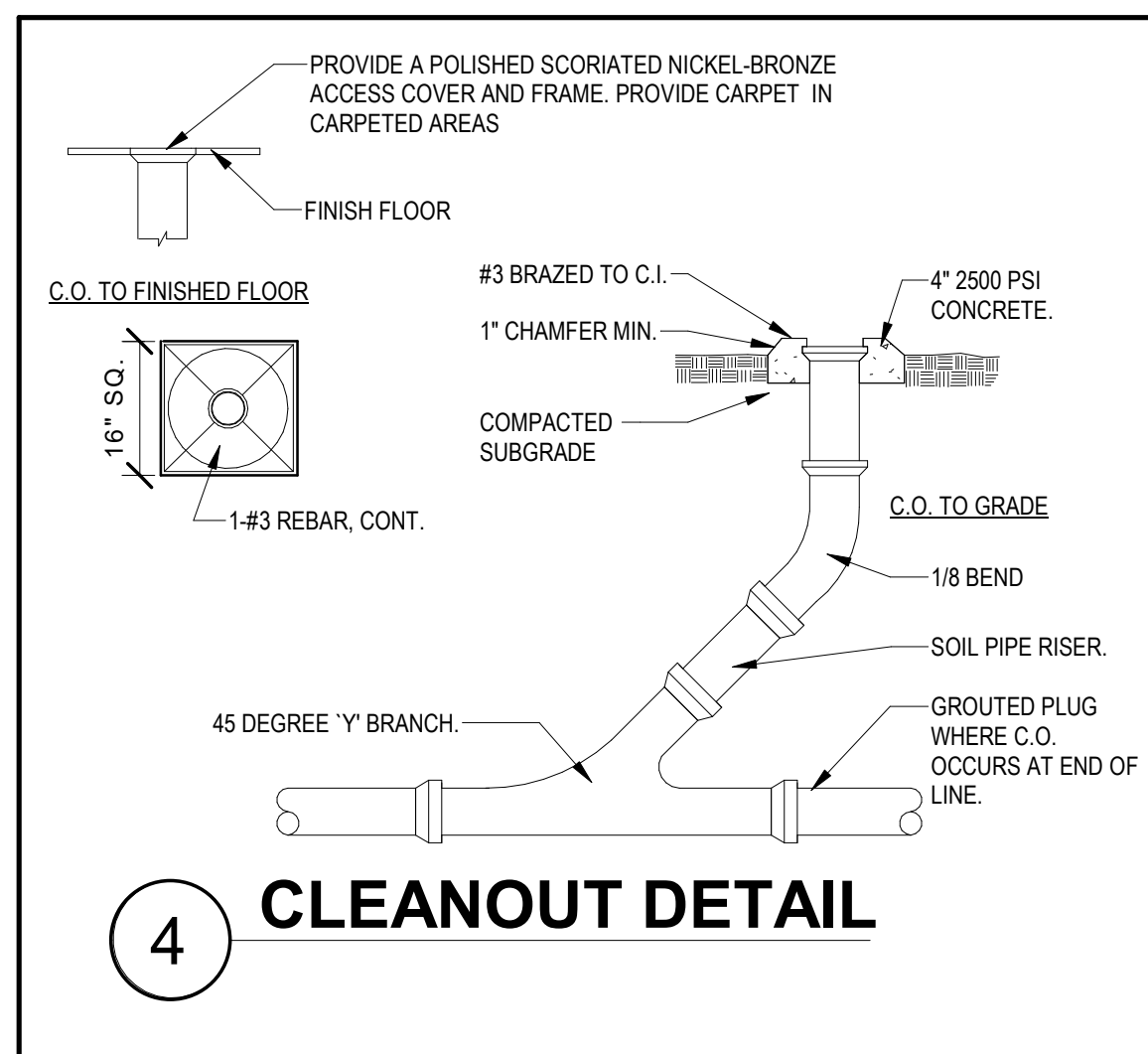
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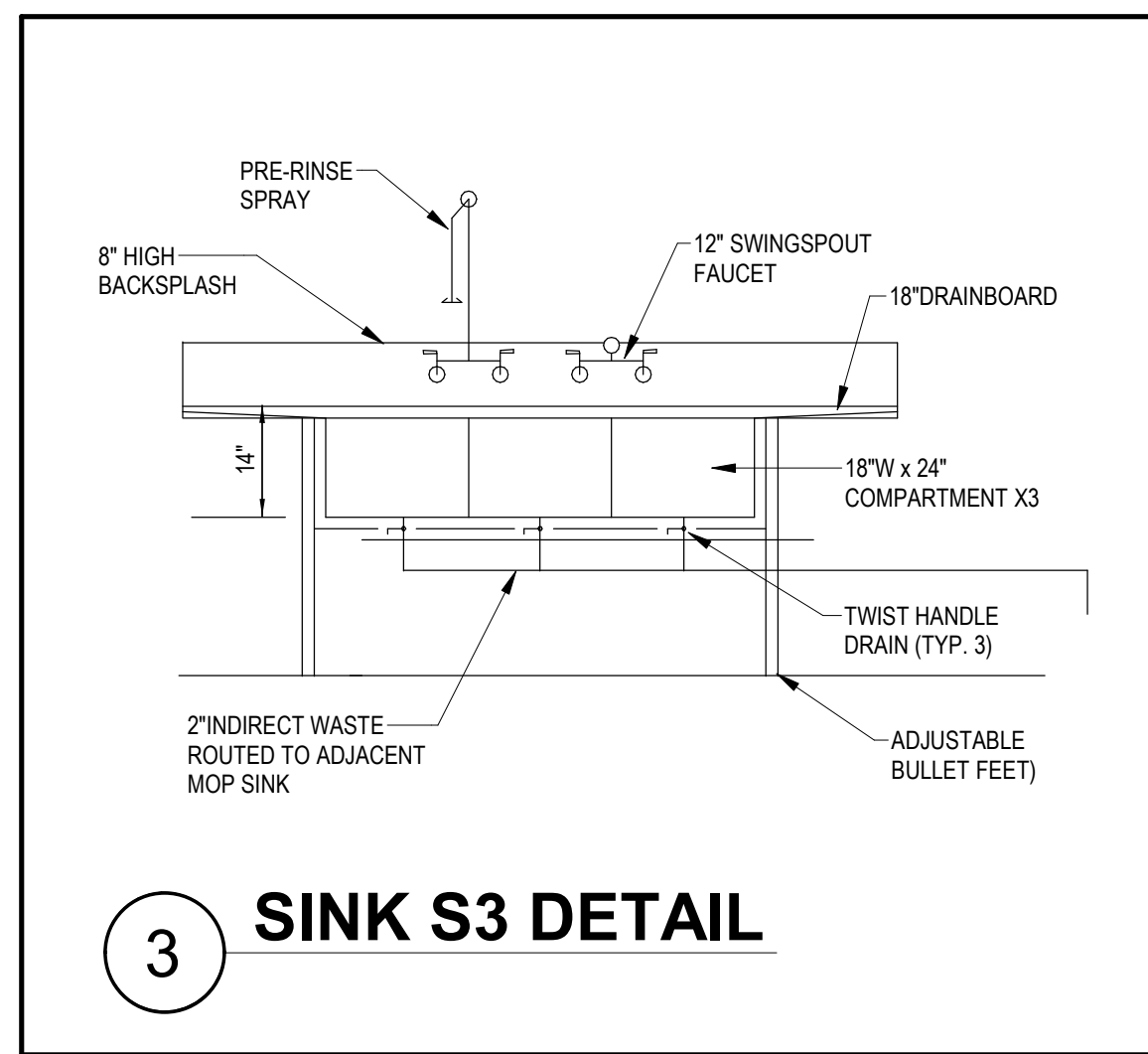
2 2-WAY CLEANOUT DETAIL



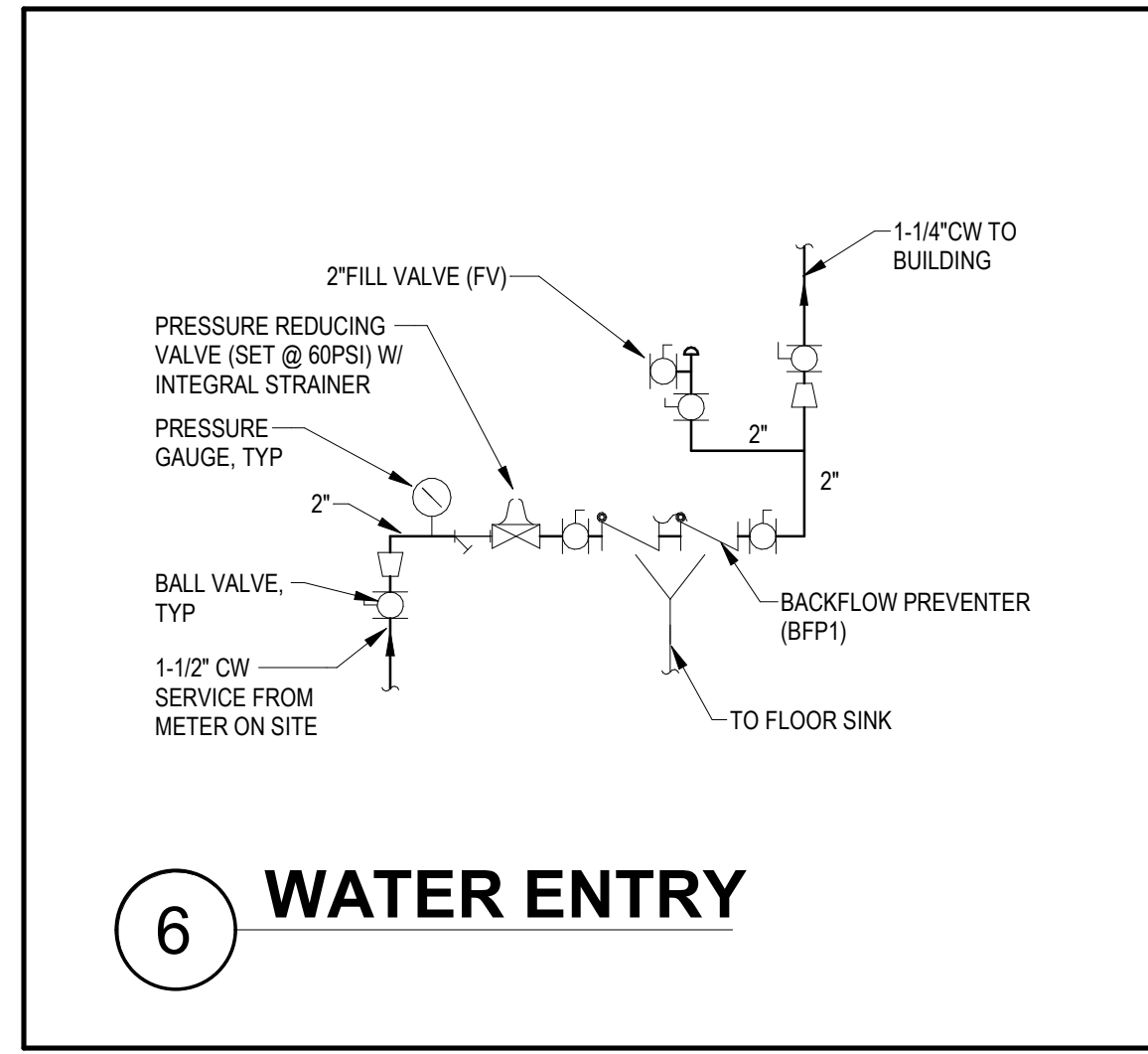
1 TANKLESS WTR HTR DTL



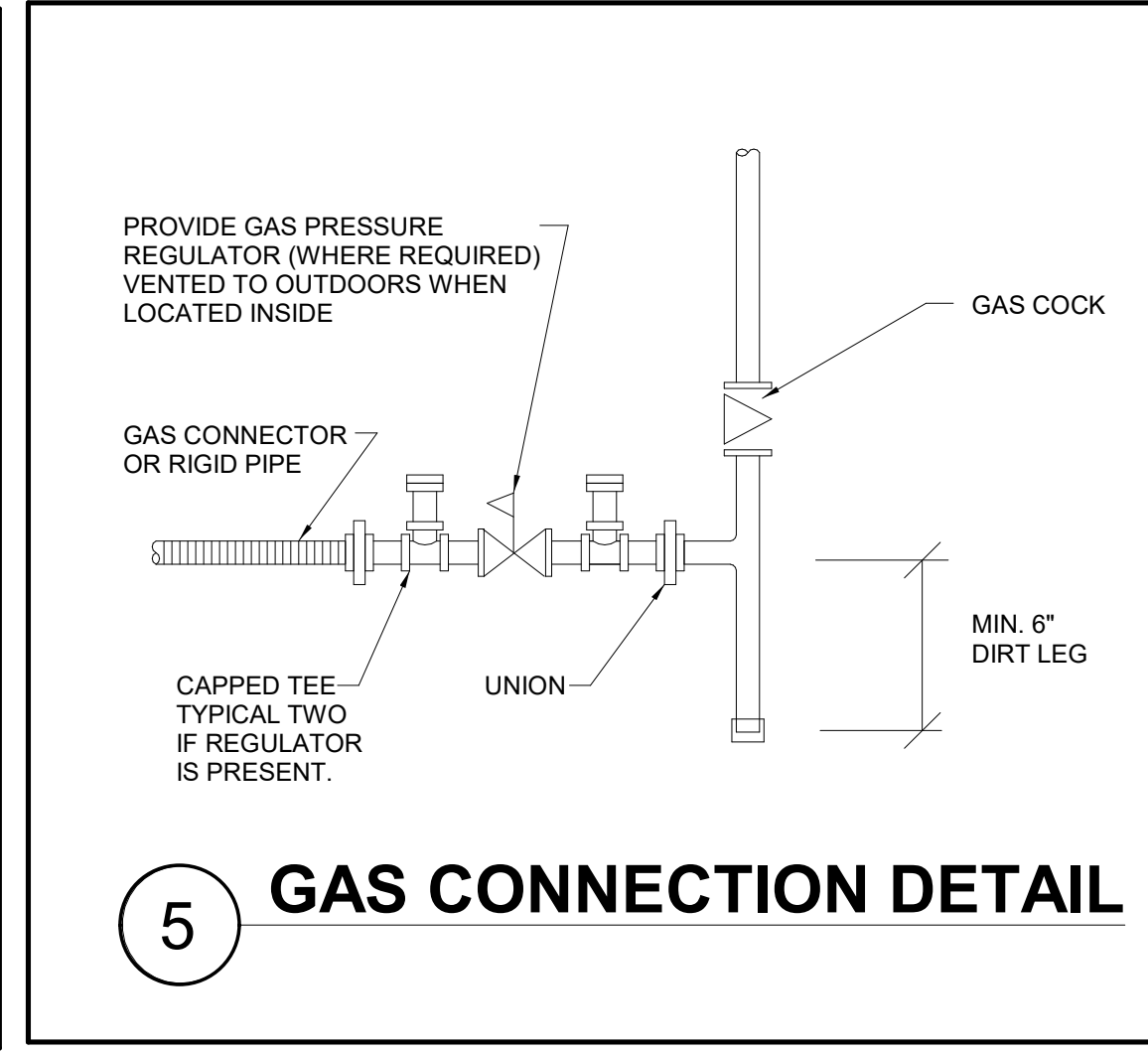
4 CLEANOUT DETAIL



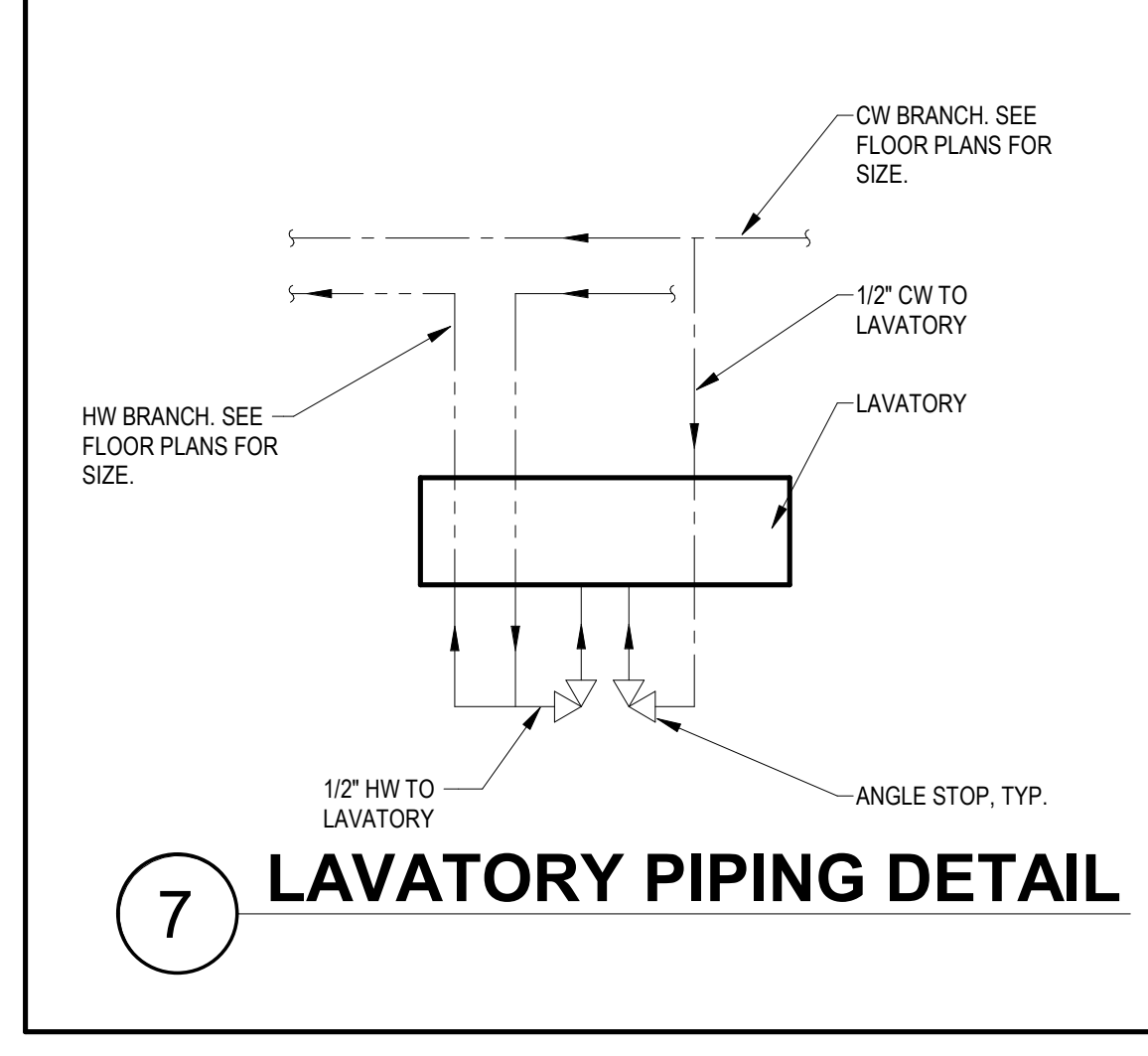
3 SINK S3 DETAIL



6 WATER ENTRY



5 GAS CONNECTION DETAIL



7 LAVATORY PIPING DETAIL

PLUMBING GENERAL NOTES

- COMPLETE ALL WORK IN FULL COMPLIANCE WITH THE UMC, UPC, IBC, LIFE SAFETY CODE, N.F.P.A. AND ALL LOCAL CODES AND ORDINANCES.
- CAREFULLY LAYOUT AND INSTALL THE PLUMBING SYSTEMS INCLUDING ALL COORDINATION WITH NEW AND EXISTING SERVICES, MECHANICAL EQUIPMENT, DUCTWORK, ELECTRICAL EQUIPMENT, CONDUIT, CEILING GRID, AND ANY OTHER EQUIPMENT THAT MAY REQUIRE COORDINATION EFFORTS. COORDINATE TEMPORARY CUT-OFF OF WATER AND SEWER WITH UTILITY PROVIDERS. PERFORM ALL NECESSARY TRENCHING, BACK FILLING, CUTTING, PATCHING, REPAIRING, ETC. ASSOCIATED WITH THE INSTALLATION OF THE PLUMBING SYSTEM SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS.
- VERIFY ALL INVERTS BEFORE ROUTING ANY AND ALL PIPING. NO COMPENSATION WILL BE MADE FOR THE CONTRACTOR'S FAILURE TO COORDINATE WORK WITH SITE CONDITIONS. BECOME TOTALLY FAMILIAR WITH ALL ASPECTS OF THE WORK AND ALL CONSTRAINTS AND LIMITATIONS OF THE WORK REQUIRED.
- ROUTE PIPING AS NEARLY AS POSSIBLE TO THE ROUTING INDICATED ON THE PLANS, BUT MAKE MINOR CHANGES IN ROUTING TO ACCOMMODATE THE CONDITIONS AT THE SITE. DO NOT UNDERTAKE MAJOR REROUTING OF PIPING WITHOUT WRITTEN APPROVAL FROM ENGINEER. MAKE ALL REQUIRED TRANSITIONS, OFFSETS, MINOR RE-LOCATIONS, AND ALL ASSOCIATED FITTINGS, PIPING, AND EQUIPMENT TO INSTALL A COMPLETE AND OPERATIONAL SYSTEM.
- THE PROXIMITY OF WATER AND SEWER LINES SHALL BE AS FOLLOWS, UNLESS WRITTEN APPROVAL FROM THE STATE HEALTH DEPARTMENT SPECIFIES DIFFERENT CONDITIONS: WHENEVER POSSIBLE, IT IS DESIRABLE TO LAY PARALLEL WATER AND SEWER LINES AT LEAST TEN FEET APART HORIZONTALLY, AND THE WATER LINE SHOULD BE AT A HIGHER ELEVATION THAN THE SEWER LINE. IF THIS IS NOT POSSIBLE, SEPARATE TRENCHES WILL BE REQUIRED IN ALL CASES (THIS SHALL BE EFFECTIVE EVEN THOUGH ONE LINE HAS BEEN INSTALLED PRIOR TO THE OTHER), AND THE WATER LINE SHALL BE AT LEAST ONE FOOT ABOVE THE SEWER LINE. WHERE LINES INTERSECT THE WATER LINE SHALL BE SLEEVED FOR TEN FEET ON EACH SIDE OF THE INTERSECTION.
- ALL CONTRACTORS BIDDING ON THIS PROJECT ARE CAUTIONED TO VISIT THE SITE AND MAKE ALL NECESSARY INQUIRIES TO DETERMINE THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BIDS. NO SUBSEQUENT ALLOWANCE WILL BE MADE TO COMPENSATE FOR LACK OF PRE-BID INSPECTIONS BY THE SUCCESSFUL CONTRACTOR. ANY LINES ENCOUNTERED WHICH MAY INTERFERE WITH NEW CONSTRUCTION SHALL BE RELOCATED IF ACTIVE AND ABANDONED IF INACTIVE BY THIS CONTRACTOR UNDER THIS CONTRACT BY FIRST CONTACTING THE ARCHITECT FOR A RULING AS TO THEIR REMOVAL, RELOCATION, ETC.
- PROVIDE ACCESS PANELS TO ALL INACCESSIBLE PLUMBING EQUIPMENT.
- INSULATE ALL NEWLY INSTALLED PIPING (DOMESTIC HOT, COLD, AND RECIRC. WATER) IN THE BUILDING, LABEL PIPE WITH FLUID TYPE AND FLOW DIRECTION.
- INSULATE ALL COLD AND HOT WATER SUPPLY TUBING AND P-TRAPS AT HANDICAP LAVATORIES AND SINKS WITH AN A.D.A. APPROVED ENCLOSURE. INCLUDE ALL FITTINGS FOR A COMPLETE INSTALLATION.
- PERFORM PRESSURE TEST OF WASTE/VENT LINE PER CODE. COMPLETE A SUCCESSFUL TEST PRIOR TO COVERING THE WORK.
- PRESSURE TEST, FLUSH AND DISINFECT ALL DOMESTIC WATER PIPING PER CHAPTER 6 OF THE PLUMBING CODE PRIOR TO CALLING FOR FINAL INSPECTION.
- AFTER ALL PIPING HAS BEEN INSTALLED, TESTED, CLEANED, AND PHOTOGRAPHED BACKFILL THE SPACE UNDER THE FLOOR AND TAMP TO PROCTOR 95%. REPAIR THE REBAR AND PATCH THE FLOOR IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL PLENUM INSTALLED MATERIALS MUST BE PLENUM RATED OR WRAPPED IN A LISTED SYSTEM TO ACHIEVE A VALUE LOWER THAN 25 FLAME SPREAD AND 50 SMOKE DEVELOPMENT RATING.
- FLUSHING LEVERS/MECHANISMS SHALL BE PLACED ON THE ACCESSIBLE SIDE OF THE FIXTURE.
- ALL EXPOSED PIPE WALL PENETRATIONS IN FINISHED SPACES SHALL BE FITTED WITH CHROME PLATED ESCUTCHEONS SECURED RIGIDLY FLUSH WITH WALL SURFACE.

SCHEDULE

WC	FLUSH TANK WATER CLOSET: A.D.A. COMPLIANT, 1.28 GPF FLOOR MOUNTED VITREOUS CHINA, SIPHON JET, ELONGATED TOILET, EVERCLEAN SURFACE. OPEN FRONT SEAT LESS COVER, BOLT CAPS, FLUSH LEVER OPPOSITE SIDEWALL. "AMERICAN STANDARD" WASHERCOK MODEL 3339.128. WASTE = 2 IN., VENT = 1 - 1/2 IN., CW = 3/4"
U	URINAL: WATER SAVING, VITREOUS CHINA W/ WASHOUT ACTION, 3/4" TOP SPUD INLET, 2 IN. OUTLET, ADJUSTABLE FLOOR SUPPORTED WALL CARRIER AND 1.0 PINT MANUAL FLUSH VALVE. "AMERICAN STANDARD" WASHERCOK MODEL 6590.001. WASTE = 2 IN., VENT = 1 - 1/2 IN., CW = 1 IN.
L	LAVATORY: A.D.A. COMPLIANT, COUNTERTOP, VITREOUS CHINA, 4" FAUCET CENTERS, CHROME PLATED GRID DRAIN, OFFSET TALLPIECE "TRUE-BRO" LAV GUARD "AMERICAN STANDARD" 7383.003 SINGLE LEVER CHROME PLATED FAUCET LESS POP-UP DRAIN, 1.5 GPM AERATOR. "AMERICAN STANDARD" AQUALYN 0476.028. WASTE = 2 IN., VENT = 1 - 1/2 IN., CW = 1/2 IN., HW = 1/2"
S1	SINK: (KITCHEN) A.D.A. COMPLIANT, STAINLESS STEEL TWO COMPARTMENT SINK CONSTRUCTED OF 18 GAUGE TYPE 302 SS, REAR OFFSET DRAIN LOCATION. ELKAY LKA-4100 FAUCET LESS SPRAYER, 1.5 GPM AERATOR. "ELKAY" MODEL LRAD-3319 (6-1/2" DEEP). WASTE = 2", VENT = 1-1/2", CW = 1/2", HW = 1/2"
S2	MOP SINK: 36"x36" PRECAST TERRAZZO, STAINLESS STEEL CAPS ON ALL CURBS, WALL MOUNTED 3 STATION MOP HOLDER, RIGID SPOUT, VACUUM BREAKER, PAIL HOOK, WALL BRACE AND 3/4" THREADED HOSE OUTLET. "CHICAGO" MODEL 445-897SRCKKCP FAUCET. "FIAT" MODEL TS8500. WASTE = 3 IN., VENT = 2 IN., CW & HW = 3/4 IN.
S3	SINK: (GEAR WASH) 3-COMPARTMENT TYPE 304 16 GA. STAINLESS STEEL SINK WITH DUAL DRAINBOARDS, SEAMLESS CONSTRUCTED, REAR 8" BACKSLASH WITH (2) 8" CENTER PUNCHES FITTED WITH 4-1/2" 12" SWINGSPOUT FAUCET AND DTA-53 PRE-RINSE SPRAY. (3) 18"x 24" COMPARTMENTS EACH FITTED WITH TWIST HANDLE DRAIN VALVE WITH STRAINER, "ADVANCE-TABCO" 93-63-54-18RL. INDIRECT WASTE = 2" (X3), CW = 3/4", HW = 3/4"
SH	SHOWER, PRESSURE BALANCING VALVE WITH LEVER HANDLE, INTEGRAL STOPS, 30" SUIDE BAR AND 69" METAL HOSE, 1.5GPM FLOW CONTROL, 39" x 39" x 75-3/4" HIGH MOLDED VIKRELL 3-WALL MODULAR SURROUND AND BASE COMPLETE WITH CHROME PLATED BRASS GRID DRAIN, FOLDING SEAT AND GRAB BARS. "MOEN" 8346EP15 FAUCET AND TRIM. "STERLING" 62050115. WASTE = 2 IN., VENT = 1 - 1/2 IN., CW & HW = 1/2 IN.
BFP1	BACKFLOW PREVENTER: SEE PLAN FOR SIZE. LEAD FREE, BRONZE BODY WITH STAINLESS STEEL SPRINGS, REDUCED PRESSURE PRINCIPLE, TWO "Y" PATTERN CHECK VALVES AND ONE HYDRAULICALLY DEPENDENT DIFFERENTIAL RELIEF VALVE, BALL SHUT OFF VALVES AND FUNNEL DRAIN KIT. ASSE STANDARD 1013. "FEBCO" MODEL LF825
FD	FLOOR DRAIN: CAST IRON FLOOR DRAIN WITH TRAP GUARD, VANDAL PROOF SECURED TOP, NICKEL BRONZE STRAINER. "ZURN" MODEL Z-415 W/ TYPE B STRAINER. WASTE = 2 IN., VENT = 2 IN.
HB	HOSE BIBB: ANTI-CONTAMINATION CLOSE COUPLED TRIMLINE WALL HYDRANT EQUIPPED WITH A VACUUM BREAKER-BACKFLOW PREVENTER, CAPABLE OF FITTING IN A 4" WALL THICKNESS. "WOODFORD" MODEL B75
FS1	FLOOR SINK: 8"x8"x8" CAST IRON, SANITARY FLOOR SINK W/ SQUARE TOP HALF GRATE AND A.R.E. SEDIMENT BUCKET. "ZURN" MODEL FZ2386. WASTE = LINE SIZE, SEE PLAN, VENT = 2 IN
FS2	FLOOR SINK: 12"x12"x8" CAST IRON, SANITARY FLOOR SINK W/ SQUARE TOP HALF GRATE AND A.R.E. SEDIMENT BUCKET. "ZURN" MODEL Z-1900-2-5. WASTE = 4 IN, VENT = 2 IN
GD	GARBAGE DISPOSER, WITH DISHWASHER PORT WHERE APPLICABLE. KITCHEN AID KCD1075B (BY G.C., SEE ARCH.). ELECTRICAL: 115V-1PH, 3/4 HP
ICE	ICE MAKER BOX: 20 GAUGE, GALVANIZED STEEL RECESSED BOX WITH 1/2" INLET, 1/2" OUTLET ANGLE VALVE. "GUY GRAY" MODEL BIM875
PRV	PRESSURE REDUCING VALVE: LEAD FREE BRONZE BODY, 300 PSI INLET RATING, SET TO 60PSI OUTLET PRESSURE, ASSE 1003 CERTIFIED, NSF CERTIFIED. "WATTS" SERIES LFX658 (SEE PLAN FOR SIZE)
TMV	THERMOSTATIC MIXING VALVE: 1/2"-1" (SEE PLAN FOR SIZE) ASSE 1070 AND 1017 POINT-OF-USE MIXING VALVE. SET AT 105 DEGREES F. "WATTS" MODEL LFMV
CO	INTERIOR FLOOR CLEAN OUT: CAST IRON CLEAN OUT WITH THREADED ADJUSTABLE HOUSING, SV HUB OUTLET, FLANGED FERRULE WITH PLUG AND ROUND SCORIATED CAST IRON, POLISHED RONZE TRACTOR TOP. "ZURN" MODEL ZB-1400 (VERIFY SURFACE TYPE)
DCO	TWO-WAY CLEANOUT: TWP EXTERIOR CLEANOUTS, PVC OR ABS FEMALE ADAPTER WITH CLEANOUT PLUG. LOCATED 2 IN. BELOW GRADE.
TWH	TANKLESS WATER HEATER: LPG-FIRED CONDENSING WALL MOUNTED WATER HEATER, 67°F TEMPERATURE RISE @ 5.6 GPM FLOW, 199.9 MBH INPUT, INTEGRAL CIRCULATING PUMP, DUAL STAINLESS STEEL HEAT EXCHANGERS, INTERNAL CONTROL SYSTEM, 2" PVC VENT KIT AND CONDENSATE NEUTRALIZATION KIT. ELECTRICAL: 120V-1Ø-60Hz, 4.0AMPS "NAVLEN" MODEL NPE-240A
WHA	WATER HAMMER ARRESTER: PRE-CHARGED AIR CHAMBER PERMANENTLY SEALED FROM WATER SYSTEM, BALL VALVE FOR ISOLATION, NPT BRASS ADAPTER, PROVIDE A 12"x12" ACCESS PANEL. "WATTS" SERIES 15.
XT	EXPANSION TANK: POTABLE WATER USE, .175 MAX. WORKING PRESSURE, 2.0 GALLONS TOTAL VOLUME, 40 PSIG FACTORY PRECHARGE. "AMTROL" MODEL ST-6C

PLUMBING SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	UNIT DESIGNATION
	KEYED NOTE
	CONDENSATE DRAIN
	VENT
	COLD WATER
	HOT WATER SUPPLY (140°F)
	HOT WATER RETURN
	GAS (NATURAL OR PROPANE)
	WASTE
	GAS COCK
	THERMOMETER
	CHECK VALVE
	RELIEF VALVE
	BALL VALVE
	STRAINER WITH DRAIN VALVE
	UNION
	SOLENOID
	PRV
	REDUCED PRESSURE BACKFLOW PREVENTER
	BACKFLOW PREVENTER
	FLOOR SINK
	VENT THRU ROOF
	2-WAY CLEAN OUT
	CLEAN OUT
	FLOOR DRAIN
	GAS FLEX
	METER
	REGULATOR
	VALVE IN VALVE BOX

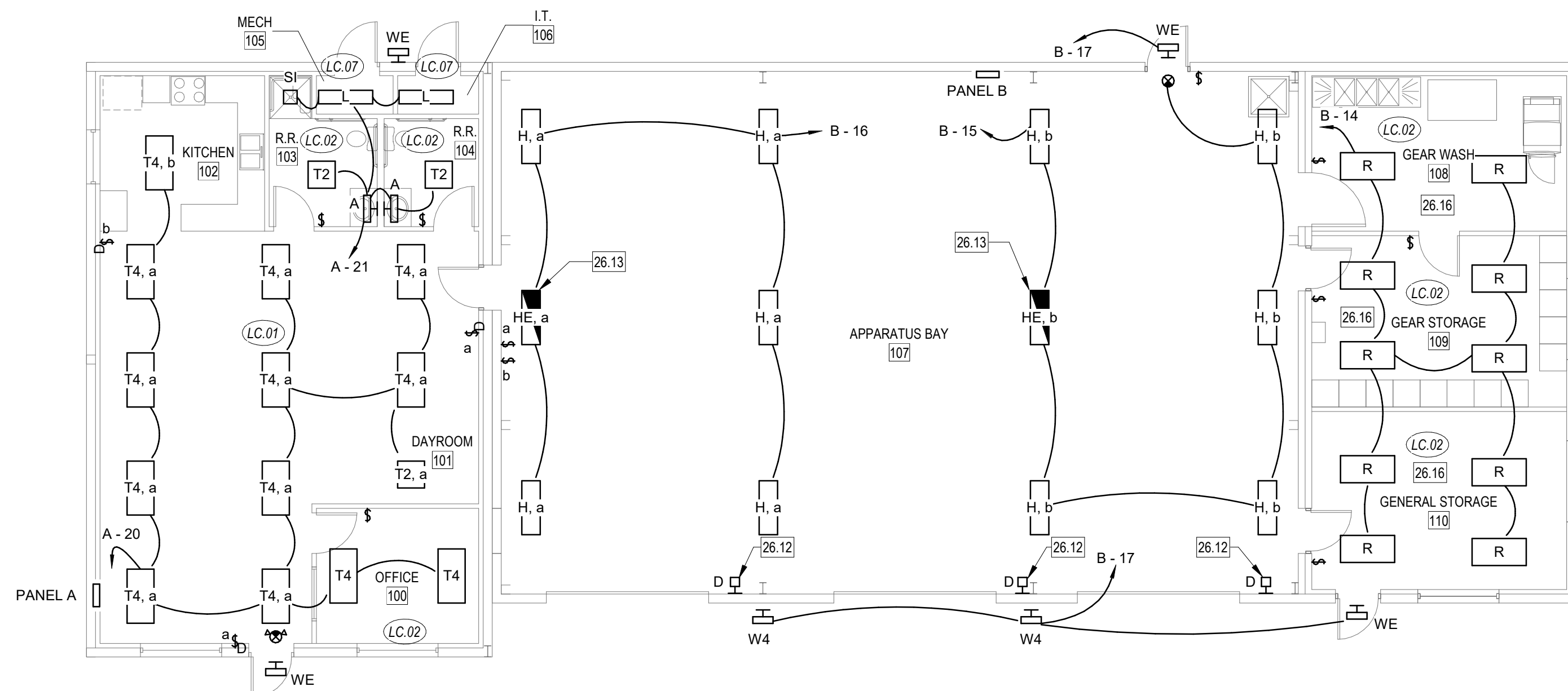
NOTE: SYMBOLS ILLUSTRATED ABOVE MAY NOT APPEAR ON THE PLANS

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PLUMBING DETAILS AND SCHEDULES
Drawn: JO Checked: DS Date: 04-13-2020
Filename: Project: 20.10 Sheet: P501 Of:

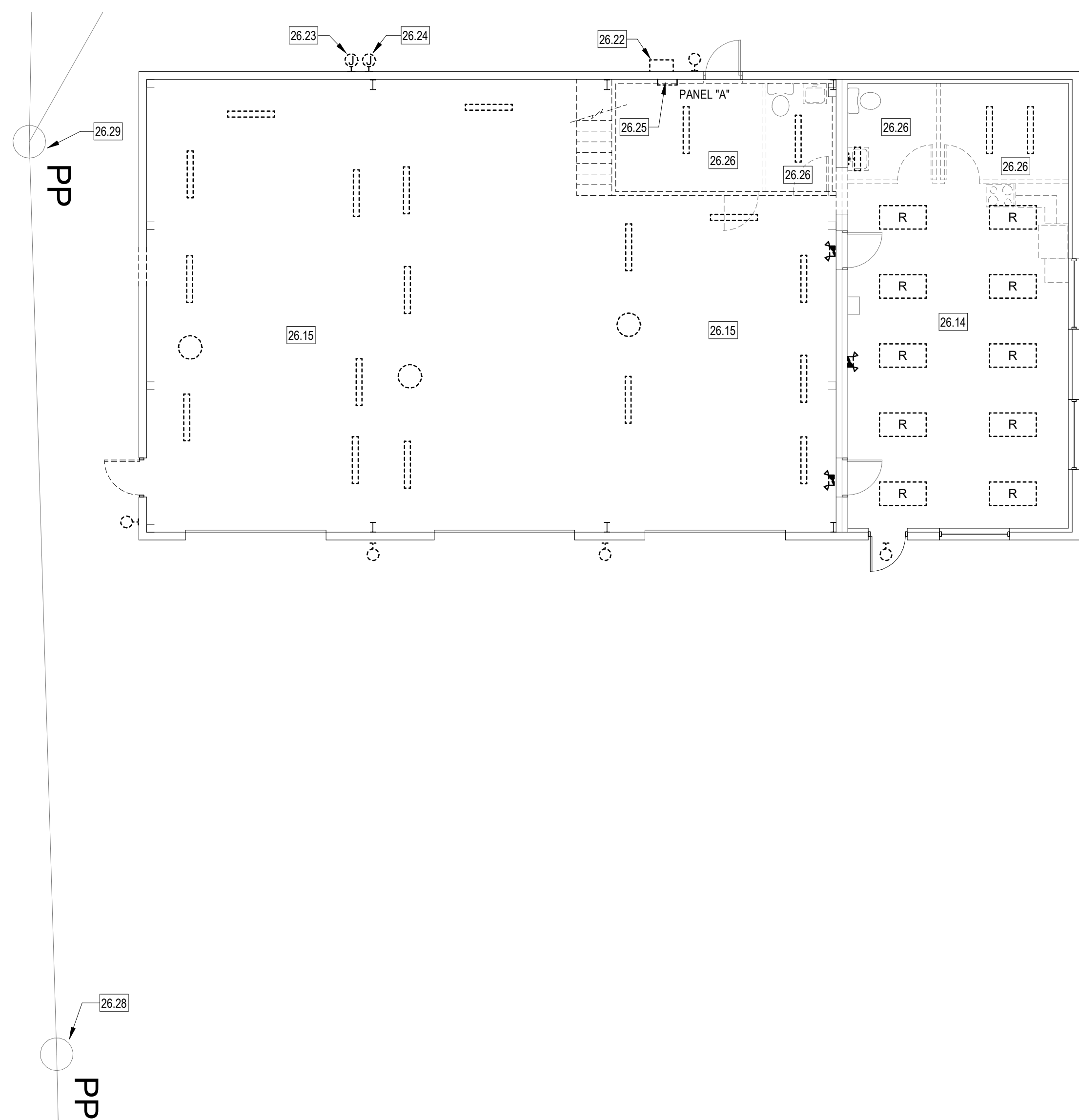


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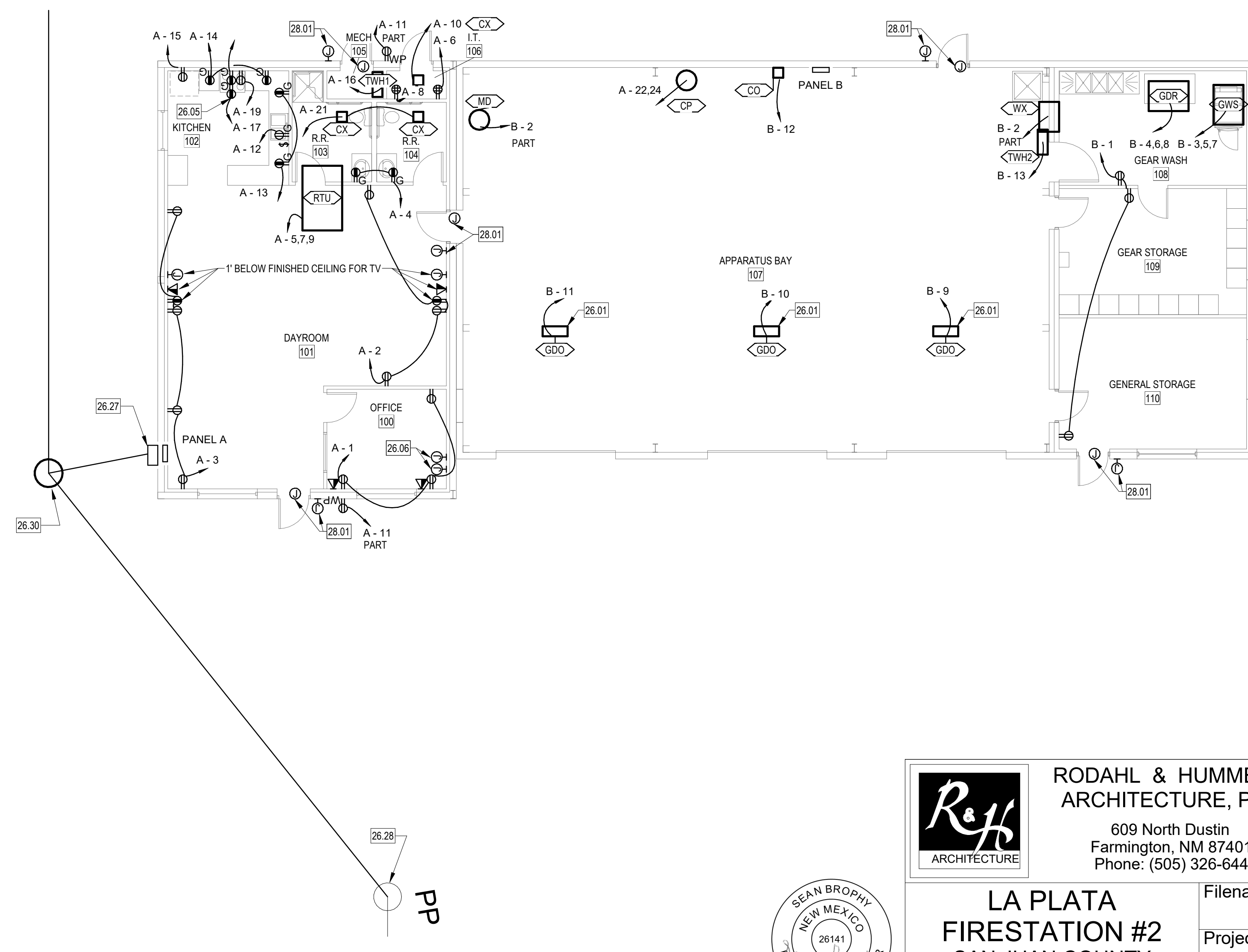


2 ELECTRICAL LIGHTING PLAN
1/8" = 1'-0"

KEYED NOTES	
26.01	GARAGE DOOR OPENER TO INDICATE WHEN DOOR IS FULLY OPEN. CONNECT TO RED/GREEN SIGNAL LIGHT ADJACENT TO DOOR (SEE LIGHTING PLAN). INDICATOR LIGHT TO CHANGE TO GREEN ONLY WHEN DOOR IS FULLY OPEN, AND REMAIN RED OTHERWISE. PROVIDE CONTACTOR AT BACK OF OVERHEAD DOOR TRACK IF REQUIRED. COORDINATE WITH OWNER.
26.05	PROVIDE ONE RECEPTACLE AT 24" AFF FOR GAS RANGE. ONE RECEPTACLE IN CABINET ABOVE FOR BROAN F403004 HOOD, AND ONE FOR GUARDIAN II FIRE SUPPRESSION SYSTEM. FOR RECEPTACLES MARKED AS GFCI BUT NOT IN READILY ACCESSIBLE LOCATION, PROVIDE GFCI BREAKER AT PANEL. THE SWITCH CONTROLLING THE HOOD FAN TO BE AT 44" AFF.
26.06	PROVIDE SINGLE GANG J-BOXES AT 18" AFF WITH 1 1/2" CONDUIT TO ABOVE CEILING.
26.12	GARAGE DOOR OPENER TO INDICATE WHEN DOOR IS FULLY OPEN. CONNECT TO RED/GREEN SIGNAL LIGHT ADJACENT TO DOOR (SEE LIGHTING PLAN). INDICATOR LIGHT TO CHANGE TO GREEN ONLY WHEN DOOR IS FULLY OPEN, AND REMAIN RED OTHERWISE. PROVIDE CONTACTOR AT BACK OF OVERHEAD DOOR TRACK IF REQUIRED. COORDINATE WITH OWNER.
26.13	TYPE H FIXTURES INCLUDE AN INTEGRAL OCCUPANCY/DAYLIGHT SENSOR, AND WALL SWITCHES FUNCTION AS A MANUAL OVERRIDE TO OFF. TYPE HE FIXTURES ARE UNSWITCHED, AND HAVE NO SENSOR.
26.14	REMOVE LIGHT FIXTURES. CLEAN AND STORE FIXTURE FOR RELOCATION IN NEW CONSTRUCTION. REMOVE LOCAL LIGHT SWITCHING. REFER TO NEW PLANS FOR LOCATION OF SWITCHES AND SWITCH LEGS.
26.15	REMOVE LIGHT FIXTURES. REMOVE WIRE AND CONDUIT BACK TO NEAREST JUNCTION BOX. MAINTAIN CIRCUIT CONTINUITY FOR DOWNSTREAM DEVICES. REMOVE LOCAL LIGHT SWITCHINGS. REFER TO NEW PLANS FOR LOCATION OF SWITCHES AND SWITCH LEGS.
26.16	INSTALL LIGHT FIXTURES FROM DEMOLITION. REUSE EXISTING CIRCUIT FROM DEMOLITION. REFER TO DEMOLITION FLOOR PLAN.
26.22	REMOVE EXISTING SERVICE ENTRY DISCONNECT AND METER SOCKET.
26.23	EXISTING 1-INCH CONDUIT. CONTRACTOR TO TRACE WIRE AND CONDUIT TO LOAD AND PROVIDE RFI FOR SIZE OF CIRCUIT BREAKER.
26.24	EXISTING 3/4-INCH CONDUIT. CONTRACTOR TO TRACE WIRE AND CONDUIT TO LOAD AND PROVIDE RFI FOR SIZE OF CIRCUIT BREAKER.
26.25	REMOVE EXISTING PANEL. EXTEND EXISTING CIRCUITS FEED FROM EXISTING PANEL TO PANEL B.
26.26	REMOVE RECEPTACLES FROM WALLS BEING DEMOLISHED. MAINTAIN CIRCUIT CONTINUITY TO DEVICES DOWNSTREAM.
26.27	NEW EXTERIOR METER SOCKET AND CT CABINET. COORDINATE REQUIREMENTS WITH UTILITY.
26.28	EXISTING UTILITY POLE COORDINATE WITH UTILITY ON CONNECTION TO NEW POWER POLE.
26.29	REMOVE EXISTING POWER POLE. MAINTAIN EXISTING CABLING TO BE RECONNECT TO NEW POWER POLE.
26.30	NEW POWER POLE COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN. COORDINATE WITH OWNER TO RECONNECT PASS THRU CABLING.
28.01	EXTERIOR BOX AT 48" AFF WITH 1 1/2" CONDUIT TO ABOVE CEILING. CONDUIT FROM J-BOX ABOVE CEILING DOWN INSIDE DOOR JAMB TO LATCH.



1 ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"



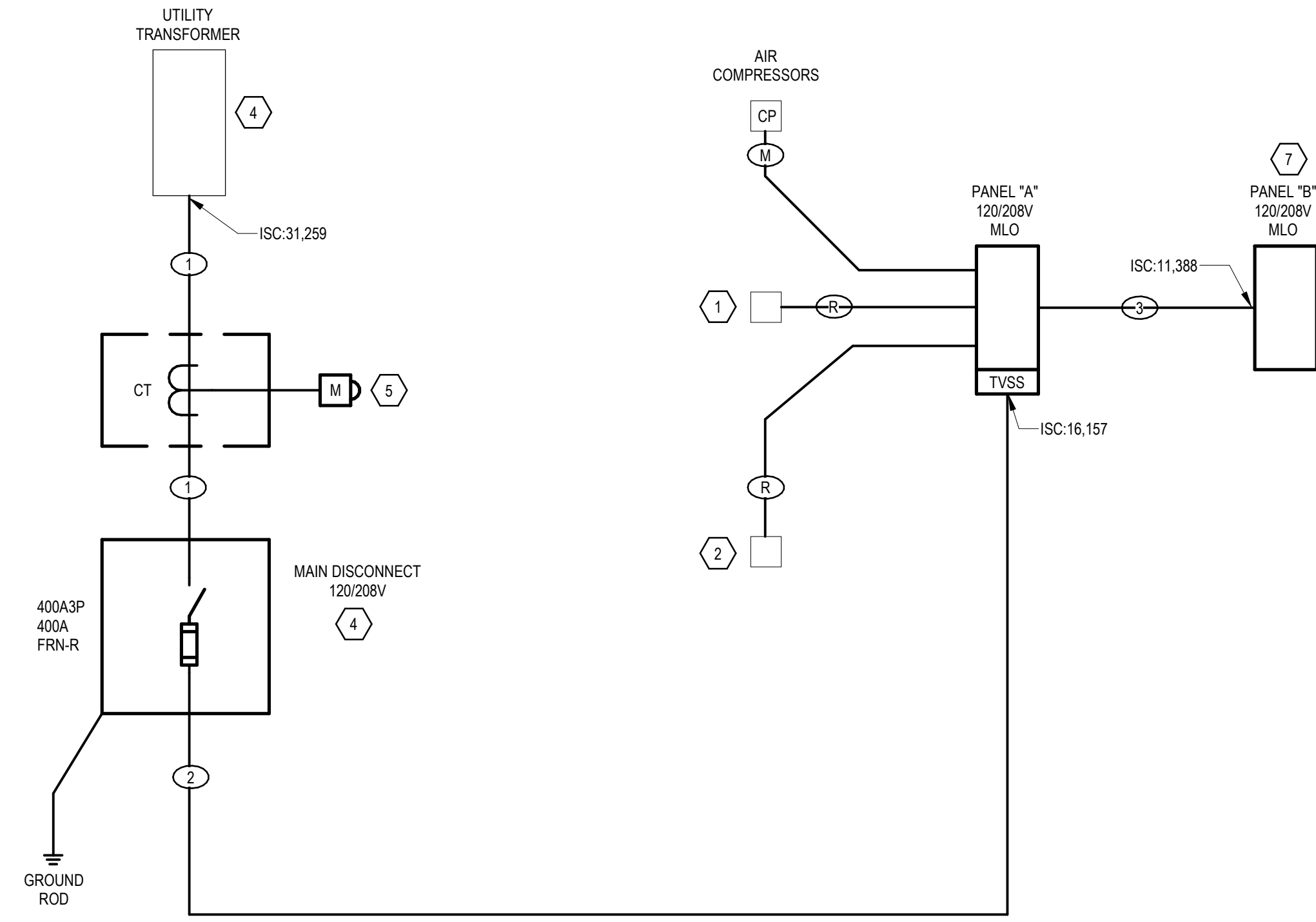
3 ELECTRICAL POWER FLOOR PLAN
1/8" = 1'-0"

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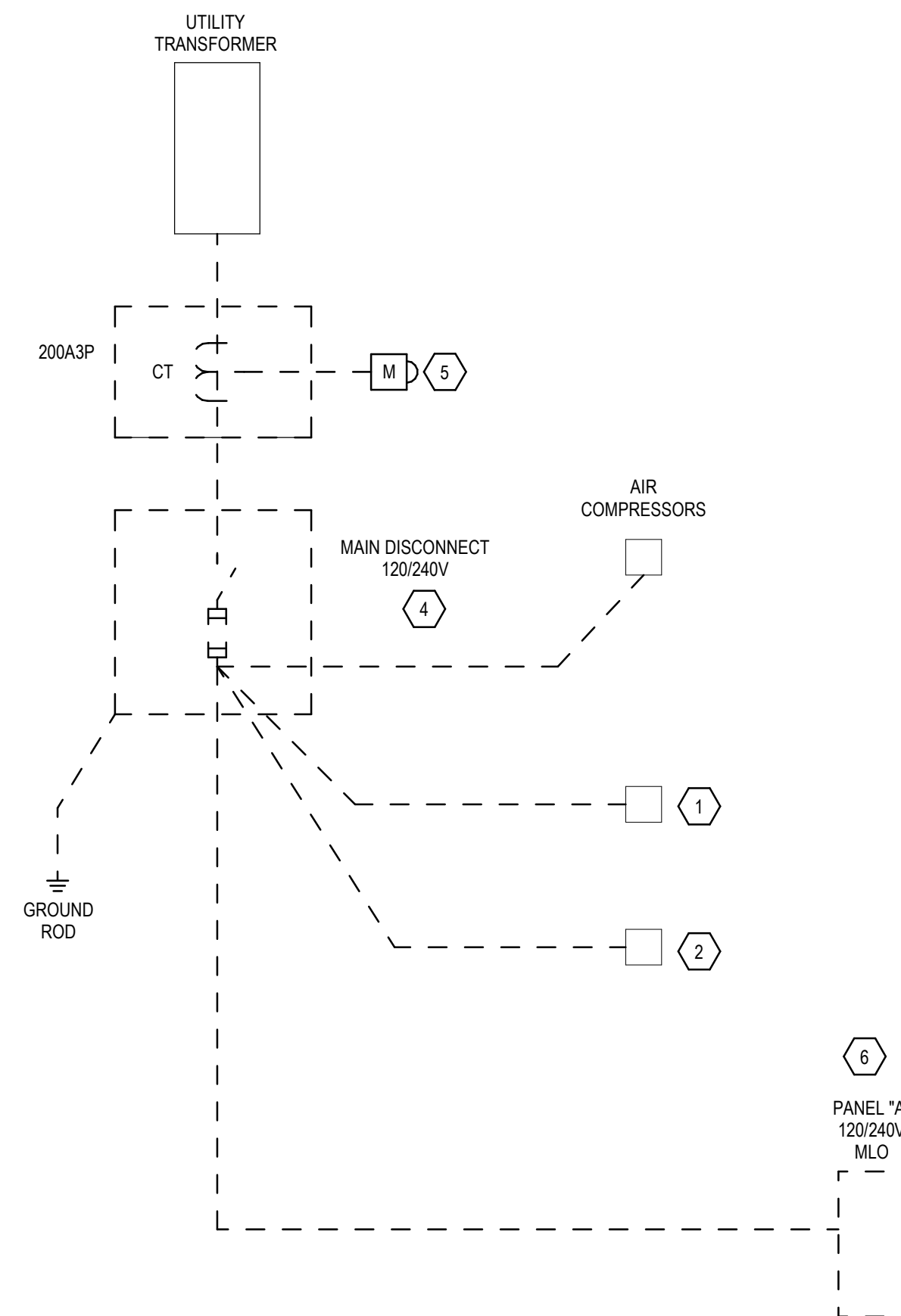
LA PLATA FIRESTATION #2 SAN JUAN COUNTY		Filename:
ELECTRICAL FLOOR PLANS		Project:
Drawn: NB	Checked: SB	Date: 04-13-2020
		Sheet: E101
		Of:



04-13-2020



NEW ONE LINE DIAGRAM



DEMOLITION ONE LINE DIAGRAM

1 ONE LINE DIAGRAM1

LEGEND

——— NEW OR MODIFIED IN THIS PROJECT
 - - - - - EXISTING TO REMAIN
 - - - - - EXISTING TO BE DEMOLISHED

GENERAL NOTES

- ALL UNDERGROUND CONDUIT TO BE SCHEDULED 80 PVC.
- ALL EXPOSED EXTERIOR CONDUIT TO BE RIGID STEEL.
- THIS DIAGRAM IS SCHEMATIC, AND NOT INTENDED TO SPECIFY CONDUIT ROUTING OR FEED SIDE OF PANELS.
- WHERE ALUMINIUM FEEDERS ARE SPECIFIED, VERIFY THAT ASSOCIATED PANELS ARE RATED FOR ALUMINIUM CONDUCTORS.
- TERMINAL SCREWS ON ALL ALUMINIUM FEEDERS SHALL BE TORQUED TO CONDUCTOR MANUFACTURER'S SPECIFICATIONS AT CONSTRUCTION, AND RE-TORQUED 90 DAYS AFTER COMMISSIONING.
- ALL FEEDERS ARE COPPER UNLESS INDICATED OTHERWISE.

KEYED NOTES

- EXISTING 1-INCH CONDUIT. CONTRACTOR TO TRACE WIRE AND CONDUIT TO LOAD AND PROVIDE RFI FOR SIZE OF CIRCUIT BREAKER.
- EXISTING 3/4-INCH CONDUIT. CONTRACTOR TO TRACE WIRE AND CONDUIT TO LOAD AND PROVIDE RFI FOR SIZE OF CIRCUIT BREAKER.
- NEW POLE AND TRANSFORMER BY UTILITY, SIZE AND EXACT LOCATION TO BE DETERMINED BY UTILITY.
- REMOVE AND REPLACE EXTERIOR SERVICE ENTRY DISCONNECT
- REMOVE AND REPLACE EXTERIOR METER SOCKET AND CT CABINET. COORDINATE REQUIREMENT WITH UTILITY.
- REMOVE EXISTING PANEL. MAINTAIN EXISTING BRANCH CIRCUITS TO BE RECONNECT TO NEW PANEL.
- EXTEND EXISTING CIRCUITS TO NEW PANEL.

FEEDER NOTES

- 2(4#3/0)2"C
- 2(4#3/0 & #6G)2"C
- (4#3/0 & #6G)2"C

M. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR FEEDER SIZE.
 R. Provide RFI once circuit trace is done.

MDP LOAD SUMMARY		
EXISTING MAX DEMAND (KVA) * :	12.78	
ITEM	DEMAND LOAD (KVA)	
	ADDED	REMOVED
Additional 25% per NEC 220	3.19	0.00
Panel A	52.00	-5.00
SUBTOTALS:	55.19	-5.00
NEW SERVICE TOTAL:	62.97 KVA	
	174.9 AMPS	
	@ 208V, 3 PH	
NEW SERVICE CAPACITY:	400 AMPS	

* Maximum demand over last 12 months, per serving utility.

PANEL A

Location: APPARATUS BAY 107
 Enclosure: Type 1
 Mounting: Recessed
 Volts: 120/208 Wye
 Phases: 3
 Wires: 4
 A.I.C. Rating: 22K
 Mains Type: MLO
 Mains Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A			B			C			Poles	Trip	Circuit Description	CKT
				540	720		900	360		2703	360					
1	REC - OFFICE 100	20	1									1	20	REC - N DAYRM	2	
3	REC - SOUTH DAYRM	20	1						900	360		1	20	REC - RRs	4	
5	RTU	30	3								2703	360	1	20	REC - IT	6
7	--	--	--										1	20	REC - IT	8
9	--	--	--						2703	360			1	20	CX IN IT	10
11	REC - EXTERIOR	20	1								2703	48	1	20	GARBAGE DISPOSER	12
13	REC - KITCH N COUNTER	20	1	3200	3200								1	20	REC - KITCH W COUNTER	14
15	REC - REFRIGERATOR	20	1						1300	480			1	20	TWH1	16
17	REC - GUARDIAN SYSTEM	20	1								180	180	1	20	REC - KITCH HOOD	18
19	REC - STOVE	20	1	50	542								1	20	DAY ROOM LIGHTS	20
21	REST ROOM LIGHTS AND...	20	1						280	2640			2	40	CP	22
23	ONE LINE NOTE 1	65	3								0	2640	--	--	--	24
25	--	--	--	0	0								1	20	Spare	26
27	--	--	--						0	0			1	20	Spare	28
29	ONE LINE NOTE 2	50	3								0	0	1	20	Spare	30
31	--	--	--	0	0								1	20	Spare	32
33	--	--	--						0	0			1	20	Spare	34
35	Spare	20	1								0	0	1	20	Spare	36
37	Spare	20	1	0	7551								3	200	B	38
39	Spare	20	1						0	8723			--	--	--	40
41	TVSS	20	1								0	6373	--	--	--	42
Total Load:				18487 VA	17245 VA	14233 VA										
Total Amps:				158 A	148 A	119 A										

Load Classification	Connected Load	Demand Factor	Demand	Panel Totals
Lighting	3355 VA	125.00%	4194 VA	
Motor	28343 VA	111.43%	31583 VA	Total Conn. Load: 49864 VA
Other	120 VA	100.00%	120 VA	Total Est. Demand: 52651 VA
Receptacle	12556 VA	89.82%	11278 VA	
Refrigeration	6490 VA	100.00%	6490 VA	
Commercial Kitchen Equipment	50 VA	100.00%	50 VA	
				Total Conn.: 138 A
				Total Est. Demand: 146 A

PANEL B

Location: APPARATUS BAY 107
 Enclosure: Type 1
 Mounting: Surface
 Volts: 120/208 Wye
 Phases: 3
 Wires: 4
 A.I.C. Rating: 22K
 Mains Type: MLO
 Mains Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A			B			C			Poles	Trip	Circuit Description	CKT
				540	711		961	4320		961	4320					
1	REC - GEAR ROOMS	20	1										1	20	WX, MD	2
3	GEAR WASHER	15	3						961	4320			3	50	GEAR DRYER	4
5	--	--	--										--	--	--	6
7	--	--	--										--	--	--	8
9	DOOR OPENER NORTH	20	1	961	4320								1	20	DOOR OPENER MIDDLE	10
11	DOOR OPENER SOUTH	20	1						864	864			1	20	CO MONITOR	12
13	TWH2	20	1	480	640						864	120	1	20	STORAGE LIGHTS	14
15	NORTH BAY LIGHTS	20	1						933	930			1	20	SOUTH BAY LIGHTS	16
17	EXTERIOR LIGHTS	20	1								120	0	1	20	Spare	18
19	Spare	20	1	0	0								1	20	Spare	20
21	Spare	20	1						0	0			1	20	Spare	22
23	Spare	20	1								0	0	1	20	Spare	24
25	Spare	20	1	0	0						0	0	1	20	Spare	26
27	Spare	20	1						0	0			1	20	Spare	28
29	Spare	20	1								0	0	1	20	Spare	30
31	Spare	20	1	0	0								1	20	Spare	32
33	Spare	20	1						0	0			1	20	Spare	34
35	Spare	20	1								0	0	1	20	Spare	36
37	Space	--	--	0	0								--	--	Space	38
39	Space	--	--						0	0			--	--	Space	40
41	Space	--	--								0	0	--	--	Space	42
Total Load:				7551 VA	8723 VA	6373 VA										
Total Amps:				64 A	74 A	53 A										

Load Classification	Connected Load	Demand Factor	Demand	Panel Totals
Lighting	2623 VA	125.00%	3279 VA	
Motor	19610 VA	116.52%	22850 VA	Total Conn. Load: 22634 VA
Other	120 VA	100.00%	120 VA	Total Est. Demand: 26474 VA
Receptacle	540 VA	100.00%	540 VA	
Refrigeration	15 VA	100.00%	15 VA	
				Total Conn.: 63 A
				Total Est. Demand: 73 A

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LA PLATA
FIRESTATION #2
SAN JUAN COUNTY

Filename:
 Project:
 Sheet:
E501
 Of:

ELECTRICAL RISER
 Drawn: NB
 Checked: SB
 Date: 04-13-2020

04-13-2020

EQUIPMENT CONNECTION SCHEDULE

NOTES: 1. Confirm neutral conductor requirements with equipment installer prior to installing branch circuits. 2. All VFDs are provided by mechanical contractor and installed by electrical contractor, but VFD startup and programming must be by VFD factory authorized representative. 3. Route power to rooftop units within building. If field conditions make exposed rooftop conduit necessary, submit RFI for revised conductor sizes.

UNIT	DESCRIPTION	ELECTRICAL	HP	FLA	MCA	CB AT PANEL	DISC. AT UNIT	PANEL	CIRCUIT #	CONDUCTORS/CONDUIT	NOTES
CO	CARBON MONOXIDE/NITROGEN DIOXIDE DETECTOR	120 V/1-120 VA				15 A	STO	B	12	(2#12 & 1#12G)3/4"	
CP	AIR COMPRESSOR	208 V/2-2800 VA	25.38			40 A	CORD AND PLUG	A	22,24	(2#8 & 1#10G)1"	
CX	CEILING EXHAUSTER	120 V/1-48 VA				20 A	STO	A		(2#12 & 1#12G)3/4"	
GDO	GARAGE DOOR OPENER, 1/3HP	120 V/1-864 VA				20 A	STO	B		(2#12 & 1#12G)3/4"	
GDR	GEAR DRYER	208 V/3-12960 VA			36	50 A	60A / NF / BY EC	B	4,6,8	(3#8 & 1#10G)1"	
GWS	GEAR WASHER	208 V/3-2882 VA		8		15 A	30A / NF / BY EC	B	3,5,7	(2#12 & 1#12G)3/4"	
MD	MECHANICAL DAMPER	120 V/1-15 VA				20 A	STO	B	2	(2#12 & 1#12G)3/4"	
RTU	ROOFTOP UNIT	208 V/3-8109 VA		22.5	24	30 A	WITH UNIT	A	5,7,9	(3#10 & 1#10G)3/4"	
TWH1	TANKLESS WATER HEATER	120 V/1-480 VA				20 A	STO	A	16	(2#12 & 1#12G)3/4"	
TWH2	TANKLESS WATER HEATER	120 V/1-480 VA				20 A	STO	B	13	(2#12 & 1#12G)3/4"	
WX	WALL EXHAUSTER	120 V/1-696 VA	0.25		5.8	20 A	STO	B	2	(2#12 & 1#12G)3/4"	

LIGHTING FIXTURE SCHEDULE

NOTES: 1. Unless otherwise noted, all interior fixtures shall be 35K CCT, all exterior 30K. Interior fixtures shall have minimum 80 CRI, unless higher CRI noted below. 2. All heights shown are to bottom of fixture. 3. Proposed substitutions must be APPROVED PRIOR TO BIDDING, meet all requirements listed here, and have IES files available. See specification section for detailed substitution requirements.

TYPE	DESCRIPTION	MOUNTING	HEIGHT	MAKE	MODEL	LAMP	WATTS	BATTERY	LUMENS	OPTIC	CRI	NOTES
A	ASYMMETRIC UP/DOWN WALL FIXTURE, DIMMABLE	WALL	8' AFF	FINELITE	S17-LED	LED	37	NONE	2,500	ASYMMETRIC	MIN 80	
D	DOOR EXIT SIGNAL LIGHT	WALL	6' AFF	LIGHTING SPECIALTIES	SG20-12RG-LED	LED	10	NONE	2,500	N/A	N/A	SEE PLAN KEYNOTES FOR CONTROL
E	EXIT SIGN	UNIVERSAL				LED	3		N/A	N/A	N/A	
EXL	EXIT SIGN WITH LIGHTS	UNIVERSAL				LED	3		N/A	N/A	N/A	
H	HIGH BAY, WIDE DISTRIBUTION, WITH INTEGRAL OCCUPANCY SENSOR	SUSPENDED	17' AFF	COLUMBIA	LLH/4	LED	155	NONE	16,000	WIDE	MIN 80	
HE	HIGH BAY, WIDE DISTRIBUTION, WITH INTEGRAL OCCUPANCY SENSOR AND EM BATTERY	SUSPENDED	17' AFF	COLUMBIA	LLH/4	LED	155	INTEGRAL	16,000	WIDE	MIN 80	UNSWITCHED
L	4' LINEAR LENSED	SURFACE	CEILING	COLUMBIA	LCL4-40LW-EU	LED	25	NONE	2,500	DIFFUSE	MIN 80	
R	RELOCATED TROFFER, 2X4'	RECESSED-GRID	CEILING			T8	64	NONE	4,787	WIDE	0	
SI	SQUARE LIGHT, INDOOR WET LOCATION, NO PHOTOCCELL	SURFACE	CEILING	KENALL	MS11FL	LED	22	NONE	1,350	DIFFUSE	MIN 80	
T2	TROFFER, 2X2'	RECESSED-GRID	CEILING	COLUMBIA	LCAT22-40MWG-EU	LED	22	NONE	2,200	WIDE	MIN 80	
T4	TROFFER, 2X4'	RECESSED-GRID	CEILING	COLUMBIA	LCAT24-40MLG-EDU	LED	40	NONE	4,787	WIDE	MIN 80	
W4	WALLPACK WITH PHOTOCCELL	WALL	ABOVE DOOR	LITHONIA	OLW-31	LED	45	NONE	3,970	-	N/A	OWNER STANDARD FIXTURE, NO SUBSTITUTIONS
WE	WALLPACK WITH PHOTOCCELL WITH EM BATTERY PACK	WALL	ABOVE DOOR	LITHONIA	WDGE1 LED	LED	15	INTEGRAL	2,000	FORWARD THROW	MIN 80	

LIGHTING CONTROL SCENARIO SCHEDULE

NOTES: 1. All lighting control devices shall be sourced from same manufacturer. See specifications for approved manufacturers. 2. For rooms with occupancy or daylight sensing, sensor locations and quantities shown should be considered approximate. Contractor is responsible for adjusting quantity and locations according to the selected manufacturer's recommendations for complete coverage of room.

LC	DESCRIPTION	APPLIES TO	OCCUPANCY SENSING	SENSOR COVERAGE	CONTROL ZONES	MANUAL DIMMING	MANUAL SWITCHING	SCENE SELECTOR	SCHEDULED ON/OFF	DAYLIGHT SENSING
LC.01	CONTROL BY LOCAL DEVICES ONLY. PROVIDE DIMMERS AND ON/OFF SWITCH AT LOCATIONS INDICATED ON PLANS. SENSOR CONTROL SHALL BE MANUAL ON / AUTO OFF.	DAY ROOM, KITCHEN	Yes	MINOR MOTION	4	Yes	Yes	No	No	No
LC.02	CONTROL BY LOCAL DEVICES ONLY. PROVIDE WALLBOX OCCUPANCY SENSOR WITH INTEGRAL MANUAL DIMMING (OR HIGH CORNER MOUNT SENSOR WITH SEPERATE DIMMER). SENSOR CONTROL SHALL BE MANUAL ON / AUTO OFF.	RESTROOMS, OFFICES, STORAGE	Yes	MINOR MOTION	1	No	Yes	No	No	No
LC.07	CONTROL BY LOCAL DEVICES ONLY. CONTROL SHALL BE MANUAL ON / OFF.	MECHANICAL, I.T. ROOM	No		1	No	Yes	No	No	No

GENERAL ELECTRICAL NOTES

- PRODUCT SUBSTITUTIONS: ALL PROPOSED PRODUCT SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL PRIOR TO BIDDING. REFER TO DIVISION 1 SPECIFICATIONS FOR SUBSTITUTION REQUEST DEADLINE. REFER TO THE APPROPRIATE DIVISION 26 SPECIFICATION SECTION FOR DETAILED REQUIREMENTS FOR EACH TYPE OF PRODUCT. SUBSTITUTION REVIEWS WILL BE ISSUED IN ADDENDA TO ALL BIDDERS, NO LATER THAN FINAL ADDENDUM BEFORE BID DATE.
- DIVISION 26 SCOPE: ALL LINE VOLTAGE WIRING AND CONDUIT SYSTEMS REQUIRED BY ANY DIVISION SHALL BE THE RESPONSIBILITY OF THE DIVISION 26 CONTRACTOR. EVERY ATTEMPT WILL BE MADE TO REFLECT THESE REQUIREMENTS ON THE ELECTRICAL SHEETS, BUT IT IS THE DIVISION 26 CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE DRAWING SET, FAMILIARIZE HIMSELF WITH THE COMPLETE PROJECT SCOPE, AND COORDINATE WITH OTHER DIVISIONS.
- EXISTING CONDITIONS: THE CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK, FULLY INFORM HIMSELF AS TO ALL EXISTING CONDITIONS, DIMENSIONS AND LIMITATIONS BEFORE STARTING WORK. IF DISCREPANCIES ARE FOUND BETWEEN EXISTING CONDITIONS AND CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ENGINEER FOR DIRECTION BEFORE PROCEEDING.
- SURFACE REPAIR: COORDINATE WITH GENERAL CONTRACTOR FOR REPAIR OF ADJACENT CONSTRUCTION AND FINISHES DAMAGED OR EXPOSED DURING DEMOLITION WORK. REPAIRS SHALL MATCH EXISTING FINISHES, AND INCLUDE PAINT ON ENTIRE WALL WHERE REQUIRED TO MATCH COLOR.
- CODES: PERFORM ALL ELECTRICAL WORK IN A NEAT AND WORKMANLIKE MANNER IN FULL COMPLIANCE WITH ALL APPLICABLE, ADOPTED CODES: INCLUDING, BUT NOT LIMITED TO: THE NATIONAL ELECTRICAL CODE (NEC), UBC, IBC, NFPA, AND ADA. IF ANY DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ANY ASSOCIATED LEGAL OR SAFETY REQUIREMENTS, CONTRACTOR SHALL SUBMIT RFI TO ENGINEER FOR DIRECTION BEFORE PROCEEDING.
- UTILITY COORDINATION: WHEN INSTALLING OR MODIFYING SERVICE OR METERING EQUIPMENT, COORDINATE WITH UTILITY COMPANY TO ENSURE THAT THEIR STANDARDS ARE BEING MET. IF ANY DISCREPANCY IS FOUND BETWEEN UTILITY STANDARDS AND CONTRACT DOCUMENTS, SUBMIT RFI TO ENGINEER FOR DIRECTION.
- STRUCTURAL PENETRATIONS: OBTAIN PERMISSION FROM STRUCTURAL ENGINEER BEFORE DRILLING OR CUTTING STRUCTURAL MEMBERS.
- EXACT LOCATIONS: WHERE DEVICES ARE SHOWN IN CASEWORK, COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL CASEWORK DETAILS PRIOR TO ROUGH-IN. VERIFY FINAL LOCATIONS OF ALL SINKS WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN OF NEARBY ELECTRICAL DEVICES. COORDINATE THE EXACT LOCATION OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS WITH OTHER TRADES PRIOR TO ROUGH-IN. THE OWNER RESERVES THE RIGHT TO RELOCATE ANY ELECTRICAL DEVICE UP TO A DISTANCE OF 12", PRIOR TO INSTALLATION, WITHOUT ADDITIONAL CHARGE.
- GROUNDING CONDUCTORS: INSTALL WIRE-TYPE EQUIPMENT GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS. CONDUIT OR CABLE SHEATH IS NOT ALLOWED TO BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR, UNLESS EXPLICITLY CALLED FOR OR ALLOWED IN A PARTICULAR LOCATION ON CONSTRUCTION DRAWINGS.
- GROUNDING CONNECTIONS: ALL GROUNDING AND BONDING CONNECTORS SHALL BE UL LISTED FOR THE APPLICATION AND ENVIRONMENT IN WHICH THEY ARE USED, AND FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS CONNECTED.
- GROUNDING OF POLES: IF THE POLE STRUCTURE IS SUPPLIED BY ONLY A SINGLE BRANCH CIRCUIT, A SEPARATE GROUNDING ELECTRODE (ROD) IS NOT REQUIRED. BOND THE EQUIPMENT GROUNDING CONDUCTOR OF THE SUPPLY CIRCUIT TO POLE BASE REBAR AND EXPOSED METALLIC POLE COMPONENTS. IF THE POLE STRUCTURE IS SUPPLIED BY MULTIPLE BRANCH CIRCUITS, INSTALL AN 8 FT GROUND ROD AT THE POLE, AND BOND TO POLE BASE REBAR, EXPOSED METALLIC POLE COMPONENTS, AND EQUIPMENT GROUNDING CONDUCTORS OF ALL SUPPLY CIRCUITS.
- GROUNDING OF FENCES: FENCES ENCLOSING TRANSFORMERS, GENERATORS, OR SOLAR/WIND GENERATION EQUIPMENT SHALL BE BONDED TO THE GROUNDING ELECTRODE(S) ASSOCIATED WITH THE EQUIPMENT.
- PANEL SCHEDULES: PROVIDE TYPED SCHEDULES FOR ALL PANELS, CONTAINING ALL NEW CIRCUITING AS INSTALLED, AND ALL EXISTING CIRCUIT INFORMATION AVAILABLE TO CONTRACTOR. PRINTING SCHEDULES FROM THE DRAWING SET IS NOT ACCEPTABLE; RE-ATTACHING OLD SCHEDULES FROM REPLACED PANELS IS NOT ACCEPTABLE.
- NEUTRAL CONDUCTORS: PROVIDE DEDICATED NEUTRAL CONDUCTORS FOR ALL CIRCUITS, OF SAME SIZE AS PHASE CONDUCTOR(S). SHARED NEUTRALS ARE NOT ACCEPTABLE WITHOUT SPECIFIC WRITTEN PERMISSION FROM ENGINEER.
- ROMEX: FLEXIBLE NONMETALLIC CABLE (ROMEX) IS NOT ACCEPTABLE IN ANY LOCATION WITHOUT SPECIFIC WRITTEN PERMISSION FROM ENGINEER.
- MC CABLE: FLEXIBLE METALLIC CABLE (MC) IS ACCEPTABLE ONLY IN CONCEALED LOCATIONS, AND ONLY FOR CIRCUITS 20 AMPS OR LESS. SEE SPECIFICATIONS FOR DETAILED INSTALLATION REQUIREMENTS.
- CRAWL SPACES: CRAWL SPACES ARE CONSIDERED WET LOCATIONS. CONDUIT MUST BE PVC OR RMC, AND ANY MC CABLE MUST BE PVC JACKETED.

GENERAL DEMOLITION NOTES

- UNEXPECTED CONDITIONS: IF CONCEALED CONDITIONS ARE UNCOVERED THAT ARE AT VARIANCE WITH CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS, OR OF AN UNUSUAL NATURE NOT ORDINARILY ENCOUNTERED IN WORK OF THIS KIND, CONTRACTOR SHALL INFORM THE ENGINEER FOR DIRECTION BEFORE PROCEEDING. NO CLAIM FOR ADDITIONAL COST OR TIME EXTENSION WILL BE ALLOWED WITHOUT PROPER NOTICE, PRIOR DETERMINATION OF COST OR TIME, AND EXPENSE TO THE OWNER.
- DEMOLITION SCOPE: THE DEMOLITION PLAN SHALL BE USED AS A SCHEMATIC GUIDE. IF ADDITIONAL DEMOLITION WORK OR INCREASED COST IS REQUIRED TO COMPLETE THE NEW CONSTRUCTION / REMODELING AS INDICATED ON THE DRAWINGS, CONTRACTOR SHALL INFORM THE ENGINEER FOR DIRECTION BEFORE PROCEEDING.
- SURFACE REPAIR: WHERE DIRECTED TO REMOVE EXISTING EQUIPMENT / DEVICES FROM AN ARCHITECTURAL SURFACE THAT IS TO REMAIN, CONTRACTOR IS RESPONSIBLE FOR ASSOCIATED REPAIR, PATCHING, AND PAINTING OF SURFACE TO MATCH EXISTING.
- CONTRACTOR CAUSED DAMAGE: DAMAGE ON THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR OR A PARTY TO THE CONTRACTOR DURING THE DEMOLITION OR CONSTRUCTION PHASE SHALL BE REPAIRED PRIOR TO CONTRACT DATE OF SUBSTANTIAL COMPLETION AT NO ADDITIONAL EXPENSE TO THE OWNER.
- REMOVED MATERIALS: UNLESS OTHERWISE NOTED IN DRAWINGS, ALL EXISTING REMOVED EQUIPMENT SHALL BE STOCKPILED AT THE SITE AT AN OWNER APPROVED LOCATION UNTIL AN INSPECTION BY THE OWNER'S REPRESENTATIVE DETERMINES WHAT WILL BE SALVAGED. ALL EQUIPMENT NOT SALVAGED SHALL BE HAULED OFF THE SITE BY THE CONTRACTOR.
- MATERIALS TO BE REUSED: VERIFY THAT ALL ELECTRICAL EQUIPMENT, DEVICES, CONDUCTORS, OR CONDUIT TO BE RELOCATED OR RECONNECTED ARE IN WORKING ORDER PRIOR TO ANY DEMOLITION WORK. IF THE EXISTING MATERIAL IS FOUND TO BE DEFICIENT, OR APPEARS TO BE AN INAPPROPRIATE SIZE OR TYPE, CONTRACTOR SHALL INFORM THE ENGINEER FOR DIRECTION BEFORE PROCEEDING.

ELECTRICAL SYMBOLS LEGEND

LIGHTING

- RECTANGULAR FIXTURE, CEILING MOUNTED (DIMENSIONS AS SHOWN)
- ROUND FIXTURE, CEILING MOUNTED (DIMENSIONS AS SHOWN)
- TRACK LIGHTING (LENGTH AS SHOWN, HEADS NOT TO SCALE)
- POLE MOUNTED FIXTURE (HEADS NOT TO SCALE)
- ARM SYMBOL ADDITION INDICATES WALL MOUNTING
- DOT SYMBOL ADDITION INDICATES PENDANT MOUNTING
- HALF FILLED SYMBOL INDICATES EMERGENCY VERSION
- EXIT SIGNS (FILL INDICATES NUMBER OF FACES)
- WITH LIGHTS
- WITH DOUBLE ARROW
- WITH FACE

COMMUNICATIONS

- DATA OUTLET
- ABOVE FINISHED FLOOR
- ABOVE FINISHED GRADE
- ARCHITECTURAL
- BELOW FINISHED FLOOR
- CONDUIT
- ELECTRICAL CONTRACTOR
- ELECTRICAL
- ELECTRICAL METALLIC TUBING
- GENERAL CONTRACTOR
- GROUND ELECTRODE CONDUCTOR
- GALVANIZED RIGID CONDUIT
- GROUND
- GROUND FAULT INTERRUPTER
- ISOLATED GROUND
- INTERMEDIATE METALLIC CONDUIT
- LIGHTNING ARRESTOR
- MECHANICAL CONTRACTOR
- MECHANICAL
- NOT IN CONTRACT
- NOT TO SCALE
- OVERHEAD ELECTRICAL FEEDER
- OVERHEAD PRIMARY FEEDER
- OVERHEAD SECONDARY FEEDER
- POLYVINYL CHLORIDE
- PLUMBING
- PANEL
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- UNDERGROUND
- UNDERGROUND ELECTRICAL FEEDER
- UNDERGROUND PRIMARY FEEDER
- UNINTERRUPTIBLE POWER SUPPLY
- WEATHERPROOF
- TRANSFORMER

ABBREVIATIONS

- AC
- AFF
- AFG
- ARCH
- BC
- CC
- ELECTRICAL CONTRACTOR
- ELECTRICAL
- ELECTRICAL METALLIC TUBING
- GENERAL CONTRACTOR
- GROUND ELECTRODE CONDUCTOR
- GALVANIZED RIGID CONDUIT
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SWITCHING

- 20A, 1 POLE TOGGLE SWITCH
- 20A, 3WAY TOGGLE SWITCH
- 20A, 4WAY TOGGLE SWITCH
- 20A, 1 POLE KEY OPERATED SWITCH
- 20A, NETWORKED SWITCH
- DIMMER SWITCH
- PUSHBUTTON SWITCH
- TIME CLOCK SWITCH
- PHOTOSENSOR
- ROOM CONTROLLER (ABOVE CEILING)
- CEILING OCCUPANCY SENSOR (ARROWS INDICATE VIEW)
- WALL OCCUPANCY SENSOR (ARROWS INDICATE VIEW)

POWER OUTLETS

- SIMPLEX TYPE RECEPTACLE
- 20A, 120V, DUPLEX RECEPTACLE
- 20A, 120V, FOURPLEX RECEPTACLE
- 2P-4W RECEPTACLE (SEE PANEL SCHEDULE FOR DETAILS)
- 20A, 120V - GROUND FAULT PROTECTED (AT RECEPTOR OR BREAKER AS REQUIRED FOR ACCESSIBILITY)
- 20A, 120V - WEATHERPROOF IN USE COVER GROUND FAULT PROTECTED (AT RECEPTOR OR BREAKER, AS REQUIRED FOR ACCESSIBILITY)
- NEUTRAL CONDUCTORS: PROVIDE DEDICATED NEUTRAL CONDUCTORS FOR ALL CIRCUITS, OF SAME SIZE AS PHASE CONDUCTOR(S). SHARED NEUTRALS ARE NOT ACCEPTABLE WITHOUT SPECIFIC WRITTEN PERMISSION FROM ENGINEER.
- ROMEX: FLEXIBLE NONMETALLIC CABLE (ROMEX) IS NOT ACCEPTABLE IN ANY LOCATION WITHOUT SPECIFIC WRITTEN PERMISSION FROM ENGINEER.
- MC CABLE: FLEXIBLE METALLIC CABLE (MC) IS ACCEPTABLE ONLY IN CONCEALED LOCATIONS, AND ONLY FOR CIRCUITS 20 AMPS OR LESS. SEE SPECIFICATIONS FOR DETAILED INSTALLATION REQUIREMENTS.
- CRAWL SPACES: CRAWL SPACES ARE CONSIDERED WET LOCATIONS. CONDUIT MUST BE PVC OR RMC, AND ANY MC CABLE MUST BE PVC JACKETED.

DOOR CONTROLS

- REMOTE INTERFACE
- AUTOMATIC DOOR OPENER (A.D.A. OPENER)
- MAGNETIC DOOR HOLDER
- DOOR POSITION SWITCH
- ELECTRIC LOCK
- ELECTRIC STRIKE
- KEY PAD
- KEY CARD READER
- BUZZ-IN INTERCOM SYSTEM

NURSE CALL

- PULL CORD, WALL MOUNTED
- PULL CORD, CEILING MOUNTED
- CALL BUTTON
- INDICATOR LIGHT
- CONTROL STATION

MOUNTING

Letter	Height
A	90" TO TOP AND NOT FEWER THAN 4" BELOW FINISHED CEILING WHERE REQUIRED
B	80" TO BOTTOM AND NOT GREATER THAN 90" TO BOTTOM
C	6'-0"
D	48" TO TOP AFF
E	20" TO TOP AFF
F	3"
G	EMC
H	8'-0" TO HANDLE
J	8'-6" MAX

NOTES:
1. VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
2. DIMENSIONS ARE TO TOP OF DEVICE WITH TRIM. ADJUST BACK BOX LOCATION AS REQUIRED.
3. ALL MOUNTING HEIGHTS SHALL CONFORM TO THE LATEST EDITION OF THE AMERICANS WITH DISABILITIES ACT. (ADA)

POWER DISTRIBUTION

- DISCONNECT SWITCH
- METER
- RELAY
- THERMOSTAT OUTLET BOX: SINGLE GANG BACK BOX, PLASTER RING (UNLESS OTHERWISE NOTED) 1/2" CONDUIT AND PULL CORD TO MECH UNIT.
- JUNCTION BOX, CEILING, WALL AND FLOOR MOUNTED, RESPECTIVELY
- BRANCH CIRCUIT PANEL BOARD, SEE SCHEDULE FOR MOUNTING
- PAD MOUNT TRANSFORMER
- WALL MOUNT TRANSFORMER
- SURGE PROTECTION DEVICE
- GROUND
- CONDUIT STUB-OUT



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LA PLATA
FIRESTATION #2
SAN JUAN COUNTY

ELECTRICAL SCHEDULES AND NOTES
Drawn: NB Checked: SB Date: 04-13-2020
Filename: Project: 20.10 Sheet: E601 Of:

04-13-2020