

NAVAJO HOUSING AUTHORITY NEW CHINLE HOUSING MANAGEMENT OFFICE (HMO)

Indian Route 7 and Indian Route 102
Chinle, Arizona

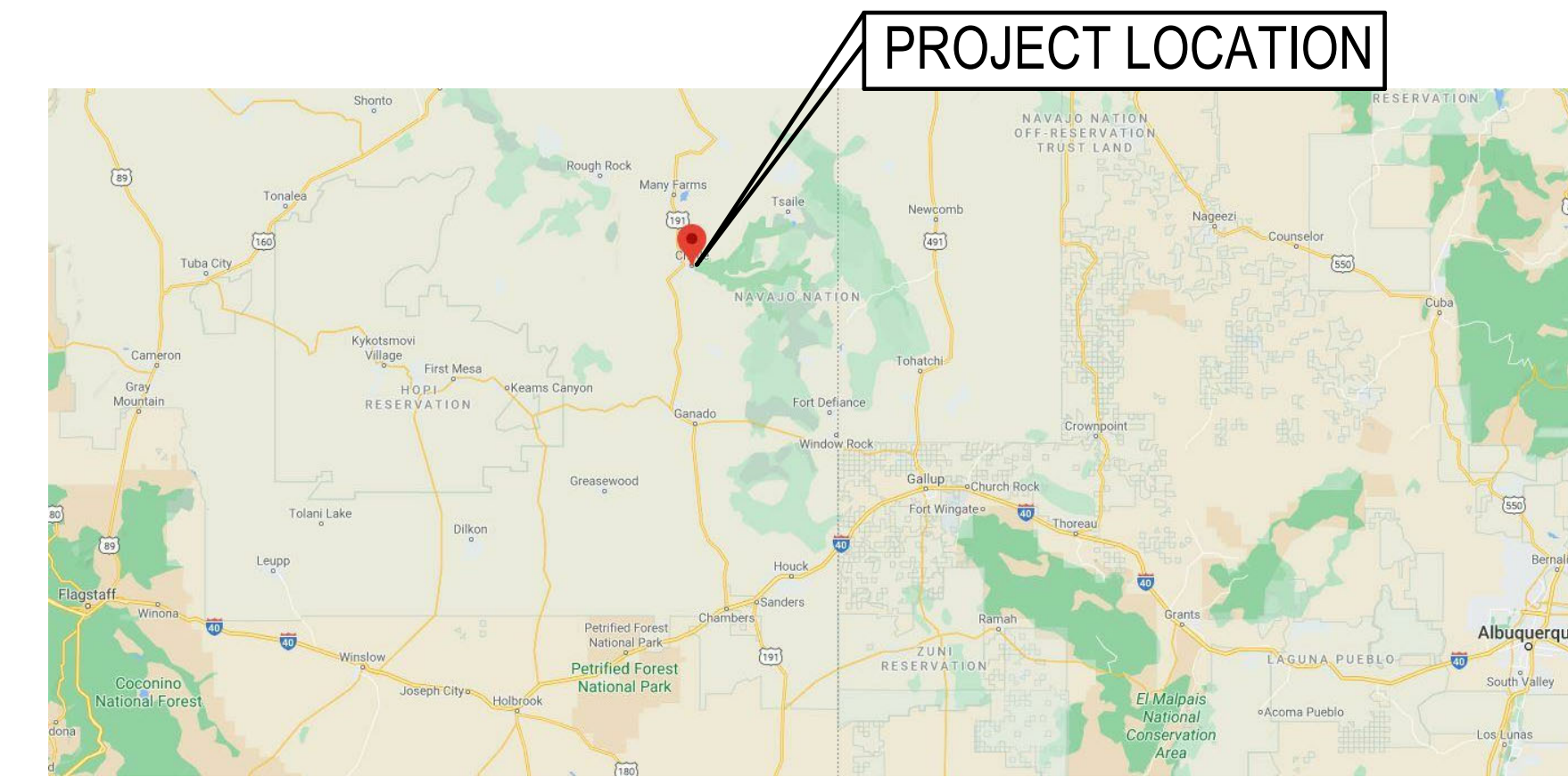


PROJECT SITE

VICINITY MAP
NOT TO SCALE
Chinle, Arizona



November 2, 2021



PROJECT LOCATION

REGIONAL MAP
NOT TO SCALE
Chinle, Arizona

SUINA DESIGN + ARCHITECTURE
100% NATIVE AMERICAN WOMEN OWNED
4411 MCLEOD ROAD NE, SUITE A-1
ALBUQUERQUE, NEW MEXICO 87109
WWW.SUINADESIGN.COM
T: 505-766-6968



CIVIL ENGINEER
MILLER ENGINEER CONSULTANTS, INC.
VERLYN MILLER
3500 COMANCHE NE, BLDG. F
ALBUQUERQUE, NEW MEXICO 87107
505.888.7500

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ANTONIO LUCHINI
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MECHANICAL & ELECTRICAL ENGINEER
TEPPICS ENGINEERING, LLC
BRANDON TOEPPER
1725 VISTA DE COLINAS DR. SE.
RIO RANCHO, NEW MEXICO 87124
708.426.3639

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3	G-003	CODE EGRESS PLAN
4	G-004	BOUNDARY PLAT
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SHEET TITLE: **COVER**
PROJECT NAME: **Chinle HMO Building Navajo Housing Authority**

Revisions	Mark	Date	Description
	A	1.15.2021	65% Design Submittal
	B	7.7.2021	95% Design Submittal
	C	8.19.2021	95% Revised Submittal

PROJECT NUMBER: NHA Chinle
FILE: NHA Chinle HMO.rvt
DRWN. BY: SD+A
CHKD BY: ES
DATE: 1/11/2021
SHEET OF
G-001

DATE PLOTTED: 1/14/2021 2:56:13 PM

Code Analysis
 1. Identification of Applicable Codes and Standards
 2018 International Building Code (IBC)

2. Type of Construction
Type V-B, no automatic sprinkler system.
3. Reason for Submittal
New Construction
4. Location
Chinle, Arizona
5. Customer Information
Mary VanDever, Executive Director, Chinle HMO, Navajo Housing Authority
6. Date of Plan
Insert Date
7. Local Fire Department
Chinle Fire Department
8. Local Building Inspector
Fire Marshall (Name)
9. Building Location
Insert address
10. Walls, New or Existing
New exterior walls are stucco over wood frame or light gauge construction with R-21 insulation and gypsum board at interior. New interior walls of similar construction with acoustic insulation and gypsum board on both sides.
11. Occupancies
Primary occupancy – Business Occupancy Group B
12. Construction Type
Type V-B, structural elements, exterior walls and interior walls are of any material allowed by code, combustible or non-combustible with no fire resistance rating.
13. Total Allowed Area Per Floor
- | OCCUPANCY GROUP | CONSTRUCTION TYPE | BASE ALLOWABLE AREA (SF) | SPRINKLER INCREASE (%/SF) | FRONTAGE INCREASE (%/SF) | TOTAL ALLOWABLE AREA (SF) |
|-----------------|-------------------|--------------------------|---------------------------|--------------------------|---------------------------|
| B | V-B | 9,000 | 0 | 13,500 | 22,500 |
| TOTAL: | | | | | 22,500 |

No automatic sprinkler system.
Frontage increase calculation (based on preliminary layout of 40' x 150' building):
 $W = (L_1 \times W_1 + L_2 \times W_2 + L_3 \times W_3 + L_4 \times W_4) / F$
 $W =$ calculated width of public way or open space (feet)
 $L_n =$ Length of a portion of the exterior perimeter wall
 $W_n =$ Width (\geq or \leq 20 feet) of a public way or open space associated with that portion of the exterior perimeter wall
 $F =$ Building perimeter that fronts on a public way or opens space having a width of 20 feet or more.
 $W = (150' \times 85' + 40' \times 69' + 150' \times 84' + 40' \times 103') / 380$
 $W = (12,750 + 2,760 + 12,600 + 4,120) / 380$
 $W = 84$
 Where W is greater than 30 feet and the building meets the requirements of Section 507, except for compliance with the minimum with the minimum 60-foot public way or yard requirement, the value of W shall not exceed 60 feet.

Amount of increase:
 $l_i = [F / P - 0.25] W / 30$
 $l_i = [380 / 380 - 0.25] 60 / 30$
 $l_i = [1 - 0.25] 2$
 $l_i = 1.5 \times 9,000 \text{ sf} = 13,500 \text{ sf}$

14. Actual Floor Area
Total 6,000 SF (approximate)

15. Allowed Stories and Height Limitations

OCCUPANCY GROUP	CONSTRUCTION TYPE	BASE HEIGHT	SPRINKLER INCREASE	FRONTAGE INCREASE	ALLOWABLE HEIGHT
B	V-B	2-stories/40ft	3 stories/60 ft	0	2 stories/40ft.

No automatic sprinkler system.

16. Actual Height
21' - 1 3/8"
17. Fire-Resistance Rating Requirements
Per 2018 IBC Table 601 for Construction Type V-B, bearing walls, exterior or interior are required to provide a fire-resistance rating of 0 hours with a fire separation distance of greater than or equal to 30 feet. Floor and roof construction are also required to provide a fire-resistance rating of 0 hours. The maximum area of exterior wall openings based on fire separation distance and degree of opening protection per 2018 IBC Table 705.8, for fire separation greater than 30 feet with unprotected, non-sprinklered, there is no limit.
18. Floors
New floors are slab on grade with finishes including VCT or similar hard surface, carpet and exposed concrete.
19. Roofs
Sloped roof with metal roof panels, substructure and R-38 insulation.
20. Exterior Openings
Existing openings and windows do not appear to be fire rated or energy efficient. Most windows are single pane with damaged frames.
21. Fire Safety Features
Fire extinguishers for light hazard occupancy include type 2-A where 1 per 3,000 sf are required and a maximum travel distance of 75 feet to each fire extinguisher. Fire extinguisher with UL Rating 2A, 10B-C, 5 lbs with mounting bracket are provided.
Per IBC 2018, for construction Type V-B for Business Occupancy Group B, the base allowable area is 9,000 sf with no automatic sprinkler system. An automatic fire sprinkler system will not be provided.
Per 2018 IBC Section 907.2.2 for Occupancy Group B, a manual fire alarm system is required where the occupant load is more than 100 persons above or below the lowest level of exit discharge. The occupant load is calculated at 4 therefore a manual fire alarm system is not required.
22. Smoke Detectors, Battery Emergency Lighting, Exit Lights, Emergency Power Generators
Emergency lighting are required in each room and as required in corridors or path of travel for exit discharge per code. Exit signs are required at each exit access door. Fire department connections or fire hydrants are required.

23. Occupant Load
IBC Occupant Load

ROOM #	ROOM NAME	AREA	FUNCTION	LOAD FACTOR	A-3	B	S-1	ACC. MECH.
1	Vestibule	107 SF	N/A					
2	Lobby	247 SF	N/A					
3	Office (Fiscal Technician)	110 SF	Business	150		1		
4	Storage	75 SF	Storage	300			1	
5	Storage	152 SF	Storage	300			1	
6	Conference	909 SF	Assembly	15	61			
7	Reception	147 SF	Business	150		1		
8	Office (Work Order Technician)	122 SF	Business	150		1		
9	Storage	43 SF	Storage	300			1	
10	File Room/Copy	369 SF	Business	150		3		
11, 12, 13, 14, 16	Offices	600 SF	Business	150		1		
15	Collaboration	144 SF	Assembly	15	10			
17	Director Office	222 SF	Business	150		2		
18	Small Conference Room	322 SF	Assembly	15	22			
19	Storage	28 SF	Storage	300			1	
20	Kitchen/Break	202 SF	Assembly	15	14			
21	Pantry	60 SF	Storage	300			1	
22	Storage	156 SF	Storage	300			1	
23	IT	237 SF	Accessory Mech.	300				1
24	Janitor	42 SF	Accessory Mech.	300				1
26	Men's Restroom	150 SF	N/A					
27	Women's Restroom	150 SF	N/A					
28	Chase (Plumbing)	30 SF	N/A					
		4,623 SF		OCCUPANT SUB TOTALS	107	9	6	2
29	Corridors (18%)	830 SF						
	Walls (12%)	538 SF						
		5,991 GSF		OCCUPANT GRAND TOTAL				124

24. Means of Egress
The required means of egress capacity factor is 0.2 inch per occupant. Total of 40 occupants x 0.2 inch = 8 inches. All exterior doors will provide 32 inch clear opening.

The exit access travel distance for Occupancy Group B without an automatic sprinkler system is 200 feet.

The minimum corridor width is 44 inches.

Dead-end corridors shall not exceed 20 feet in length.

25. Accessible Building and Site Features related to the Architectural Barriers Act
Site Accessibility

An accessible route from public transportation stops, accessible parking and public streets or sidewalks shall be provided to the accessible building entrance served. At least one accessible route shall be provided to each portion of the building and shall coincide with the general circulation path.
Typical parking requirements for a building with B Occupancy are one (1) parking space per 250 s.f. Based on the area of the building, a total of thirty (30) parking spaces are required. (6,000 / 250 = 24).
Total parking spaces provided is 41 / 25 = 1.64 (round up to 2 spaces).

Per IBC 2018 Table 1106.1, one (1) accessible parking spaces must be provided for every twenty-five (25) parking spaces provided. For every six or fraction of six accessible parking spaces, at least one shall be a van-accessible parking space.
Accessible parking spaces shall be located on the shortest accessible route of travel from adjacent parking to an accessible building entrance.

Building Accessibility
The main entrance should be equipped with an accessible automatic door opener. If ramps are required along the accessible route, they should meet ANSI A117.1 requirement for 1:12 maximum ramp slope.

Restroom Accessibility
Per 2018 IBC Section 1109.2, each toilet room and bathing room shall be accessible.
Where multiple single-use toilet rooms are clustered at a single location, at least 50 percent but not less than one room for each use at each cluster shall be accessible.
Accessible toilet rooms shall be located on an accessible route.
Where water closet compartments are provided in a toilet room, at least 5 percent of the total number of compartments shall be wheelchair accessible.
Where lavatories are provided, at least 5 percent but not less than one shall be accessible.
Where kitchens or kitchenettes are provided in accessible spaces or rooms, they shall be accessible.
Where drinking fountains are provided, not fewer than two drinking fountains shall be provided. One drinking fountain shall comply with the requirements for people who use a wheelchair and one drinking fountain shall comply with the requirement for standing persons.
Where fixed or built-in storage elements such as cabinets, coat hooks, shelves, lockers are provided in required accessible spaces, at least 5 percent but not less than one of each type shall be accessible.

26. Plumbing Fixture Type and Count
2018 Chapter 29 Plumbing Systems, Table 2902.1

Assembly (A-3) classification requirements for plumbing fixtures:

water closets	lavatories	drinking fountains	other
1 per 125 for male 1 per 65 for female	1 per 200	1 per 500	1 service sink

Total A-3 occupants = 107
 water closets (toilets) 53.5 / 125 = 0.42 (1 total)
 53.5 / 65 = 0.82 (1 total)

lavatories (sinks) 107 / 200 = 0.53 (1 total)
 drinking fountains 107 / 500 = 0.2 (1 total)
 other 1 service sink

Business (B) classification requirements for plumbing fixtures:

water closets	lavatories	drinking fountains	other
1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50 for both male and female.	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80.	1 per 100	1 service sink

Total B occupants = 9 + total S-1 = 6 + total Acc. Mech = 2, total occupants = 17
 water closets (toilets) 17 / 25 = 0.68 (1 total)
 lavatories (sinks) 17 / 40 = 0.42 (1 total)
 drinking fountains 17 / 100 = 0.17 (1 total)
 other 1 service sink

Actual plumbing fixtures provided:

water closets (toilets)	lavatories (sinks)	drinking fountains	other
Men's Restroom: 1 water closet 1 urinal	1 lavatory		
Women's Restroom: 2 water closets	1 lavatory		
Kitchen/Break Room:			1 service sink
Janitor		2 drinking fountains	1 service sink

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- ✓ Minimum 3 Day Notice
- ✓ Confirm Locales are Complete
- ✓ Respect the Marks
- ✓ Dig With Care

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ARCHITECT'S STAMP

SHEET TITLE:
CODE ANALYSIS

PROJECT NAME:
Chinle HMO Building
Navajo Housing Authority

Revisions	Date	Description
Mark		

PROJECT NUMBER: NHA Chinle
 FILE: NHA Chinle HMO.rvt
 DRWN. BY: SD+A
 CHKD BY: ES
 DATE: 1/11/2021

SHEET OF
G-002

D

C

B

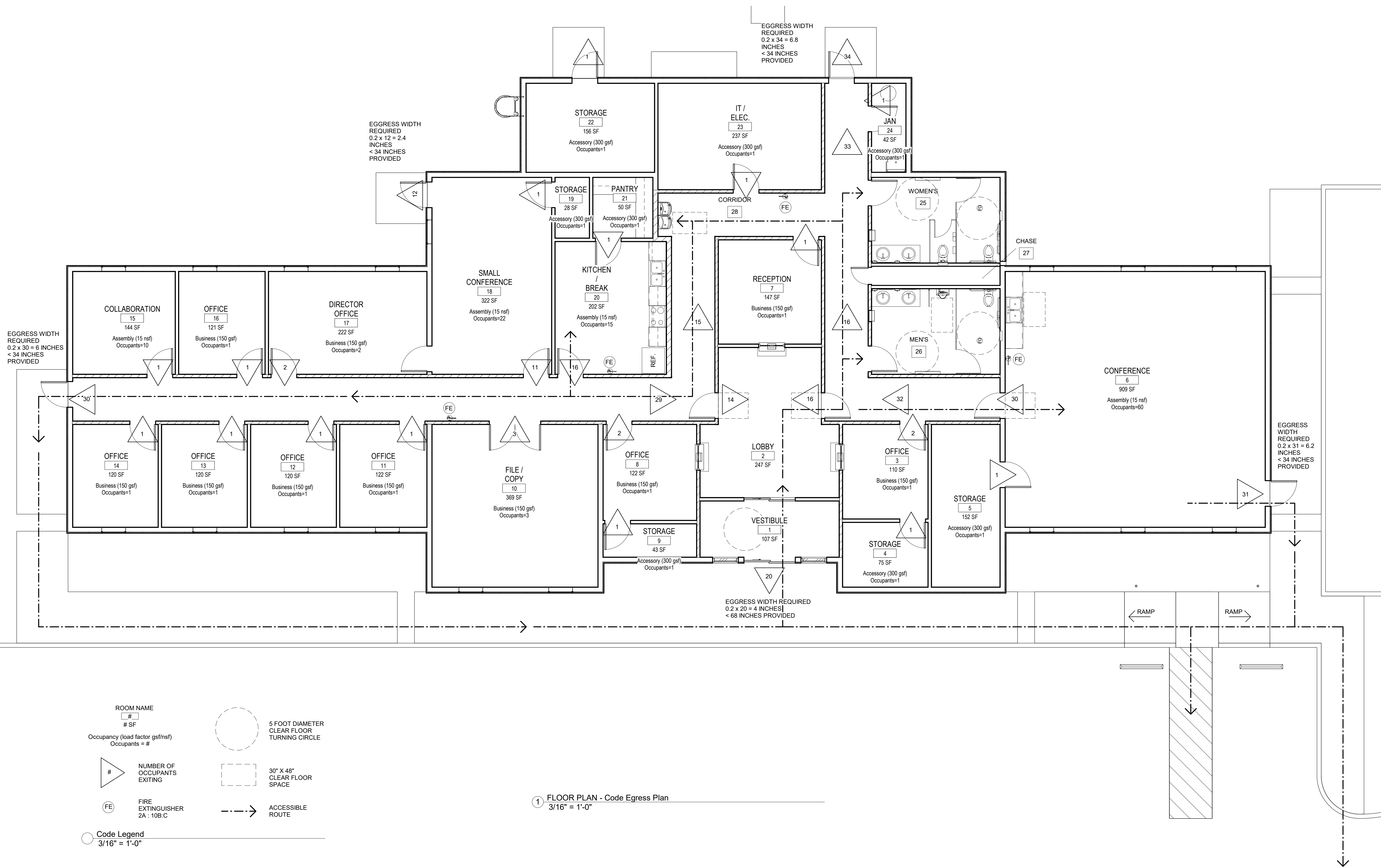
A

D

C

B

A



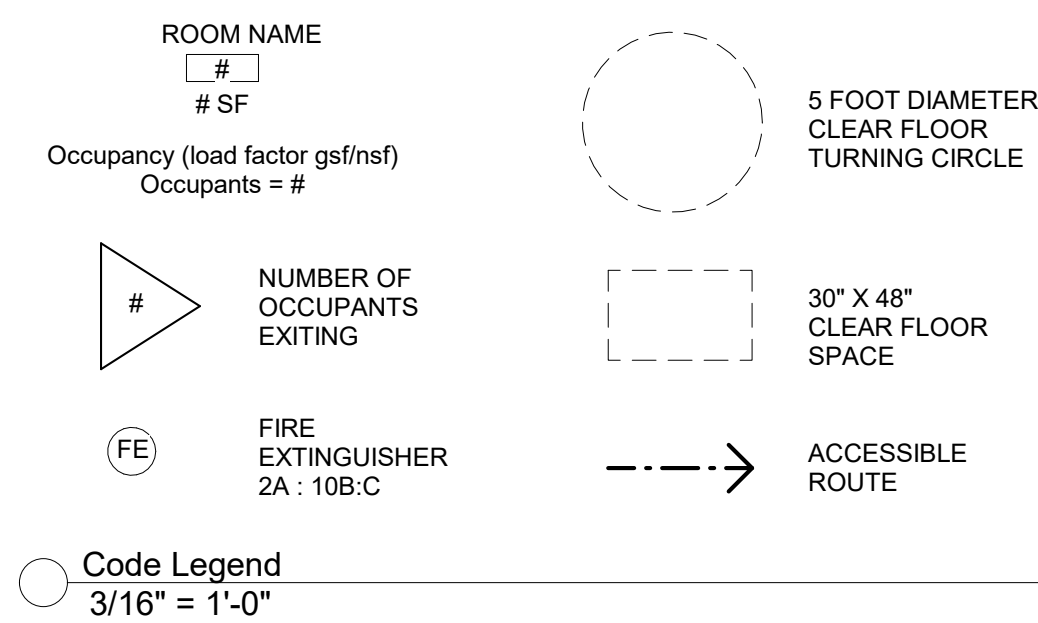
EGGRESS WIDTH
REQUIRED
0.2 x 30 = 6 INCHES
< 34 INCHES
PROVIDED

EGGRESS WIDTH
REQUIRED
0.2 x 12 = 2.4
INCHES
< 34 INCHES
PROVIDED

EGGRESS WIDTH
REQUIRED
0.2 x 34 = 6.8
INCHES
< 34 INCHES
PROVIDED

EGGRESS WIDTH
REQUIRED
0.2 x 31 = 6.2
INCHES
< 34 INCHES
PROVIDED

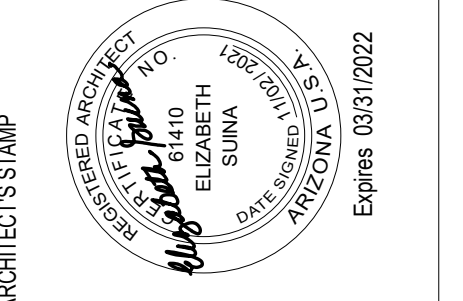
EGGRESS WIDTH REQUIRED
0.2 x 20 = 4 INCHES
< 68 INCHES PROVIDED



1 FLOOR PLAN - Code Egress Plan
3/16" = 1'-0"

SUINA DESIGN
+ ARCHITECTURE
100% NATIVE AMERICAN WOMEN OWNED

4411 McLEOD ROAD NE, SUITE A-1
ALBUQUERQUE, NEW MEXICO 87109
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SHEET TITLE:
CODE EGRESS PLAN

PROJECT NAME:
Chinle HMO Building
Navajo Housing Authority

Revisions	Mark	Date	Description

PROJECT NUMBER: NHA Chinle
FILE: NHA Chinle HMO.rvt
DRWN. BY: SD+A
CHKD BY: ES
DATE: 1/11/2021

SHEET OF
G-003

DATE PLOTTED: 10/28/2021 1:37:15 PM

LEGAL DESCRIPTION

A TRACT OF LAND SITUATE WITHIN A PORTION OF PARCEL "A-1" OF THE BUREAU OF INDIAN AFFAIRS ADMINISTRATIVE RESERVE LAND, AND WITHIN THE SOUTHWEST QUARTER OF SECTION 16, TOWNSHIP 5 NORTH, RANGE 10 WEST, OF THE NAVAJO SPECIAL MERIDIAN IN THE VICINITY OF CHINLE, APACHE COUNTY, ARIZONA AND IN THE LAND MANAGEMENT DISTRICT NO. 10 OF THE NAVAJO NATION. SAID TRACT OF LAND IS DESIGNATED AS THE REASSIGNMENT OF BUREAU OF INDIAN AFFAIRS ADMINISTRATIVE RESERVE LAND BACK TO TRUST LAND, COMPRISING OF 2.6300 ACRES, AND IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 16, T5N, R10W, OF THE NAVAJO SPECIAL MERIDIAN, BEING A FOUND BLM CADASTRAL SURVEY BRASS CAP MONUMENT DATED 1992;

THENCE, N 55°47'01" E, A DISTANCE OF 634.622 METERS (2,082.09') TO A POINT COMMON TO THE NORTHERLY RIGHT-OF-WAY OF INDIAN ROUTE 7 AND THE EASTERLY RIGHT-OF-WAY OF ROUTE N 7(2), BEING A SET NO. 5 REBAR WITH A YELLOW CAP MARKED "NHA AZ RLS 50689" (AZ RLS MICHAEL P. PAISANO), AND THE POINT OF BEGINNING OF THE HEREIN DESCRIBED TRACT OF LAND;

THENCE, CONTINUING ON SAID RIGHT-OF-WAY OF ROUTE N 7(2), N 52°12'18" E, A DISTANCE OF 97.037 METERS (318.36') TO A SET NO. 5 REBAR WITH A YELLOW CAP MARKED "NHA AZ RLS 50689" (AZ RLS MICHAEL P. PAISANO);

THENCE, S 34°52'13" E, A DISTANCE OF 29.039 METERS (95.27') TO A SET NO. 5 REBAR WITH A YELLOW CAP MARKED "NHA AZ RLS 50689" (AZ RLS MICHAEL P. PAISANO);

THENCE, N 53°29'45" E, A DISTANCE OF 30.613 METERS (100.44') TO A SET NO. 5 REBAR WITH A YELLOW CAP MARKED "NHA AZ RLS 50689" (AZ RLS MICHAEL P. PAISANO);

THENCE, S 36°41'06" E, A DISTANCE OF 59.409 METERS (194.91') TO A SET NO. 5 REBAR WITH A YELLOW CAP MARKED "NHA AZ RLS 50689" (AZ RLS MICHAEL P. PAISANO);

THENCE, S 41°11'42" W, A DISTANCE OF 105.694 METERS (346.77') TO A POINT ON THE NORTHERLY RIGHT-OF-WAY OF INDIAN ROUTE 7, BEING A SET NO. 5 REBAR WITH A YELLOW CAP MARKED "NHA AZ RLS 50689" (AZ RLS MICHAEL P. PAISANO);

THENCE, CONTINUING ON SAID RIGHT-OF-WAY N 48°48'18" W, A DISTANCE OF 111.323 METERS (365.23') TO THE POINT OF BEGINNING;

THE DESCRIBED ENCLOSED AREA COMPRISING 1.0643 HECTARES (2.6300 ACRES), BEING SUBJECT TO ANY AND ALL EXISTING EASEMENTS OR UNDERGROUND UTILITIES LOCATED THEREIN.

GENERAL NOTES:

- STEREOGRAPHIC DOUBLE GRID PROJECTION PARAMETERS
 LATITUDE OF ORIGIN: N 36°15'00" FALSE NORTHING: 500,000 METERS
 LONGITUDE OF ORIGIN: W 109°30'00" FALSE EASTING: 1,500,000 METERS
 SCALE FACTOR: 1.00020 EXACT AT ORIGIN

BASIS OF BEARING FOR THIS SURVEY IS THE LINE BETWEEN CONTROL POINTS 97 AND 98. THE CONFORMAL STEREOGRAPHIC DOUBLE GRID PROJECTION GRID BEARING BETWEEN THESE POINTS IS N 51°57'42" E, AND THE GRID DISTANCE IS 86.697 METERS (284.44'). THE COORDINATES WERE COMPUTED USING STATIC GPS OBSERVATIONS AND ARE DERIVED FROM NGS OPUS SOLUTIONS. THE RELEVANT DATA FOR THESE CONTROL POINTS ARE AS FOLLOWS:

DATUM: NAD83 (2011)
 EPOCH: 2010.0000
 CORS STATION: CT14, P028, P008, P012, NMGR
 ELLIPSOID: GR580
 VERTICAL DATUM: NAVD88
 GEODAL MODEL: GEOID12B

CONTROL POINT DATA:

CONTROL POINT 97
 CONFORMAL STEREOGRAPHIC DOUBLE GRID PROJECTION COORDINATES AND ELEVATION:
 NORTHING: 489,171.347 METERS
 EASTING: 1,494,928.422 METERS
 ELEVATION: 1,678.567 METERS
 GEODETIC COORDINATES:
 LATITUDE: N 36°09'08.70505"
 LONGITUDE: W 109°33'22.84524"
 EL. HEIGHT: 1,658.365 METERS
 DESCRIPTION: SET NO. 5 REBAR WITH ORANGE CAP MARKED "NHA CONTROL"

CONTROL POINT 98
 CONFORMAL STEREOGRAPHIC DOUBLE GRID PROJECTION COORDINATES AND ELEVATION:
 NORTHING: 489,224.768 METERS
 EASTING: 1,494,996.705 METERS
 ELEVATION: 1,678.639 METERS
 GEODETIC COORDINATES:
 LATITUDE: N 36°09'10.43917"
 LONGITUDE: W 109°33'20.11540"
 EL. HEIGHT: 1,658.440 METERS
 DESCRIPTION: SET NO. 5 REBAR WITH ORANGE CAP MARKED "NHA CONTROL"

CONTROL POINT 99
 CONFORMAL STEREOGRAPHIC DOUBLE GRID PROJECTION COORDINATES AND ELEVATION:
 NORTHING: 489,224.768 METERS
 EASTING: 1,494,996.705 METERS
 ELEVATION: 1,678.639 METERS
 GEODETIC COORDINATES:
 LATITUDE: N 36°09'10.43917"
 LONGITUDE: W 109°33'20.11540"
 EL. HEIGHT: 1,658.440 METERS
 DESCRIPTION: SET NO. 5 REBAR WITH ORANGE CAP MARKED "NHA CONTROL"

CONTROL POINT 96
 CONFORMAL STEREOGRAPHIC DOUBLE GRID PROJECTION COORDINATES AND ELEVATION:
 NORTHING: 489,224.768 METERS
 EASTING: 1,494,996.705 METERS
 ELEVATION: 1,678.639 METERS
 GEODETIC COORDINATES:
 LATITUDE: N 36°09'10.43917"
 LONGITUDE: W 109°33'20.11540"
 EL. HEIGHT: 1,658.440 METERS
 DESCRIPTION: SET NO. 5 REBAR WITH ORANGE CAP MARKED "NHA CONTROL"

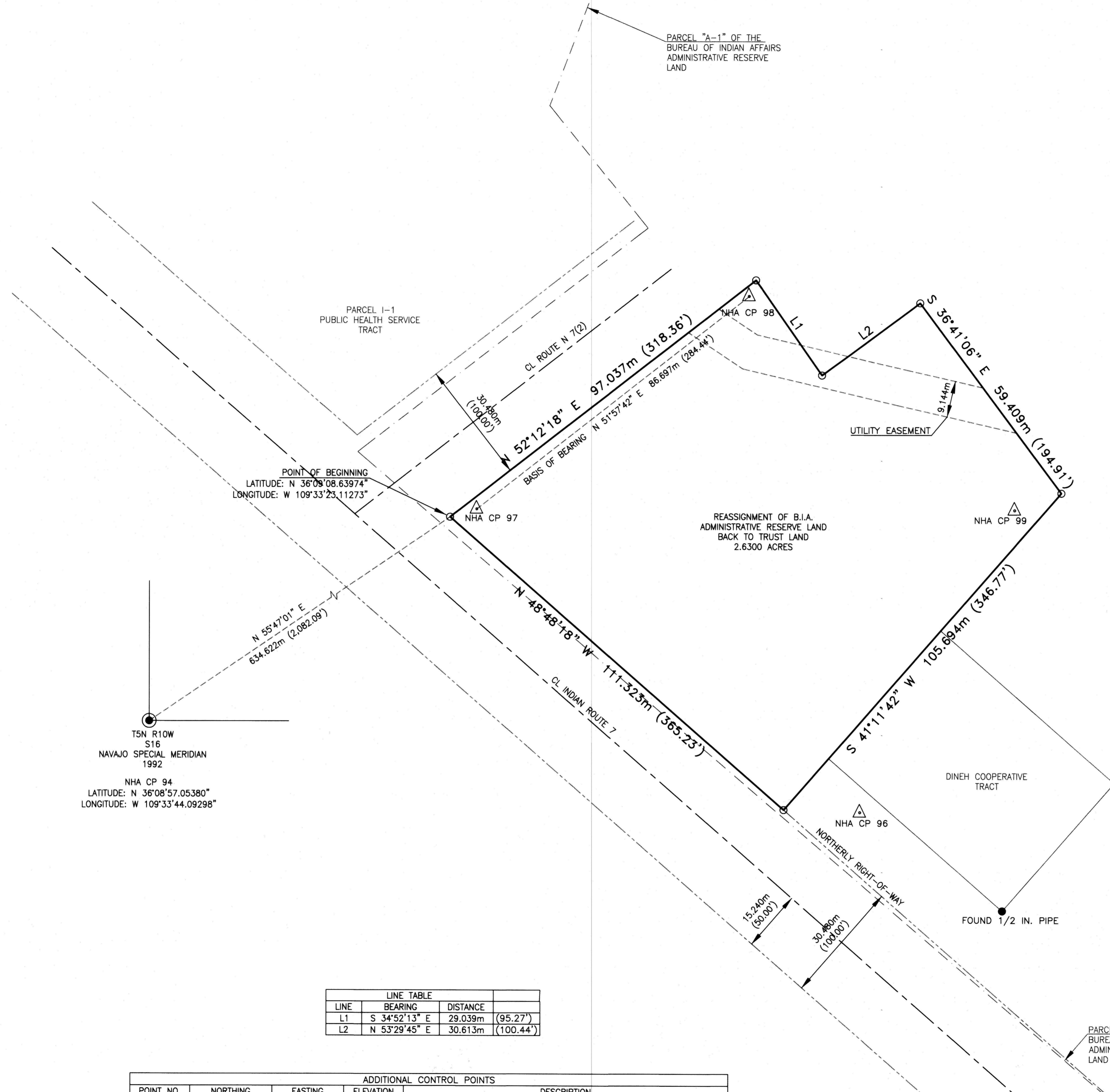
- DOCUMENTS USED:
 a) PROPERTY DESCRIPTION CHINLE SUBAGENCY, PROPERTY DESCRIPTION NO. 35-6-13, PARCEL "A" - CHINLE SUBAGENCY OFFICE, DATED JUNE 19, 1959.
 b) BLM TOWNSHIP 32 NORTH, RANGE 26 EAST, OF THE GILA AND SALT RIVER MERIDIAN PLAT, DATED NOVEMBER 28, 1994
 c) BLM TOWNSHIP 5 NORTH, RANGE 10 WEST, SECTION 16, OF THE NAVAJO SPECIAL MERIDIAN, ARIZONA, DATED AUGUST 16, 1994
 d) PARCELS A-1, F-1, G-1, I-1, M-1, N-1, AND P-1 CHINLE NAHASDA BOUNDARY SURVEY, DONE BY A.S.C.G. CORPORATION, DATED 1/14/2002. SIGNED BY ANDREW F. POTTS P.S.#33867 1/16/02
 e) TRACT DESCRIPTION FOR DINEH COOPERATIVES INC. SIGNED BY TOMMY R. CONLEY L.S. #7687, DATED 3/31/80.

3. THE LAND STATUS FOR THIS SITE IS B.I.A. ADMINISTRATIVE RESERVE.

4. ALL DISTANCES SHOWN ON THIS PLAT ARE GRID DISTANCES.

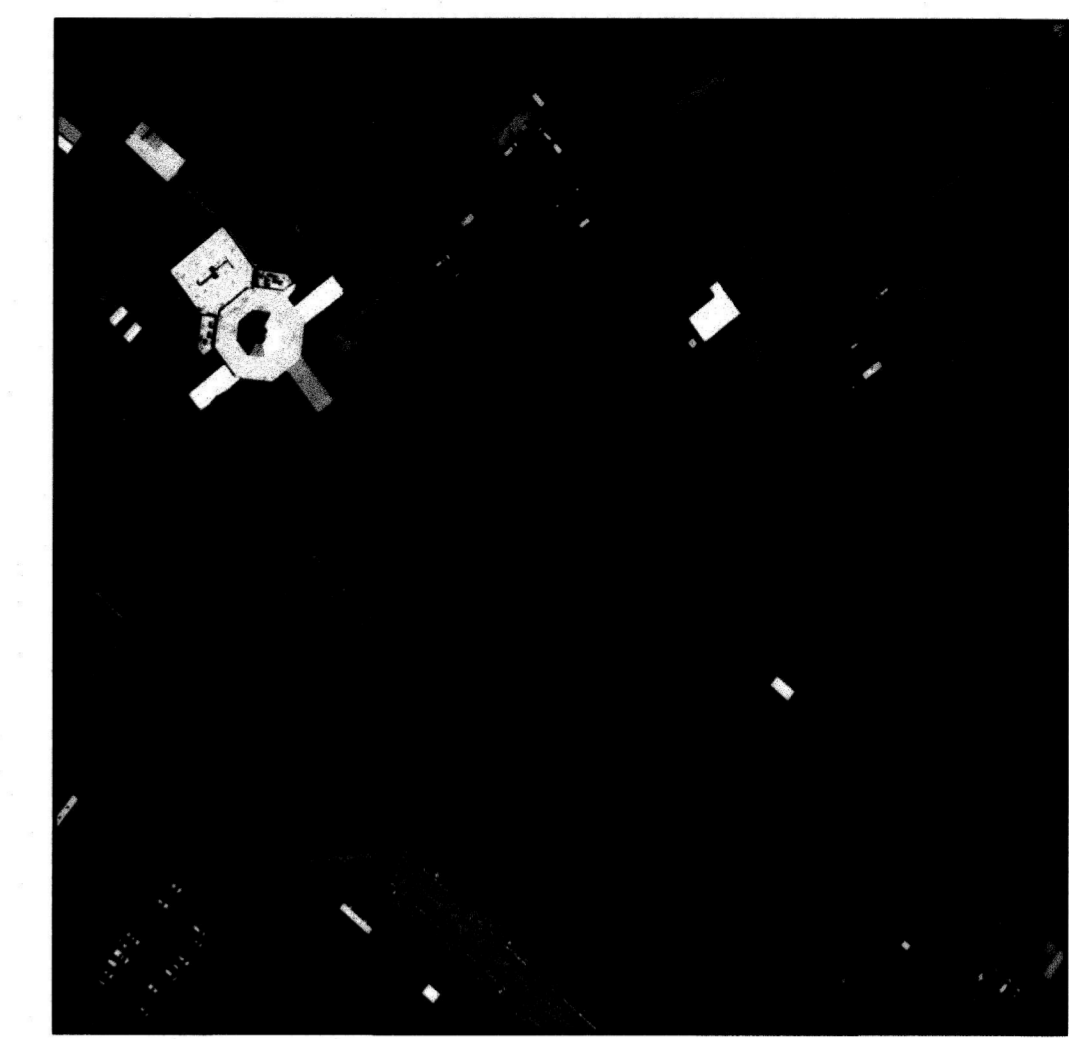
5. BEARING AND DISTANCES ARE REFERENCED TO THE CONFORMAL STEREOGRAPHIC DOUBLE GRID PROJECTION (OR OTHER AS APPLICABLE). TO OBTAIN GROUND DISTANCES, MULTIPLY BY 1.0003235246 (I.E. THE INVERSE OF COMBINE GROUND TO GRID FACTOR) THIS GRID TO GROUND FACTOR APPLIES TO ALL DISTANCES SHOWN ON ALL PLATS FOR LOTS WITHIN THE SUBDIVISION PROJECT.

6. THE BOUNDARY SURVEY WAS DERIVED FROM THE BEST FIELD EVIDENCE AVAILABLE AT THE TIME OF THE SURVEY.



LINE TABLE			
LINE	BEARING	DISTANCE	
L1	S 34°52'13" E	29.039m (95.27')	
L2	N 53°29'45" E	30.613m (100.44')	

ADDITIONAL CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
94	488,812.476m	1,494,396.951m	1676.503m	FOUND BLM CADASTRAL SURVEY BRASS CAP MONUMENT DATED 1992
95	488,929.475m	1,494,080.394m	1675.845m	FOUND BLM CADASTRAL SURVEY BRASS CAP MONUMENT DATED 1992
96	489,095.400m	1,495,024.621m	1679.233m	SET NO. 5 REBAR WITH AN ORANGE CAP MARKED "NHA CONTROL"
99	489,171.245m	1,495,063.405m	1679.155m	SET NO. 5 REBAR WITH AN ORANGE CAP MARKED "NHA CONTROL"

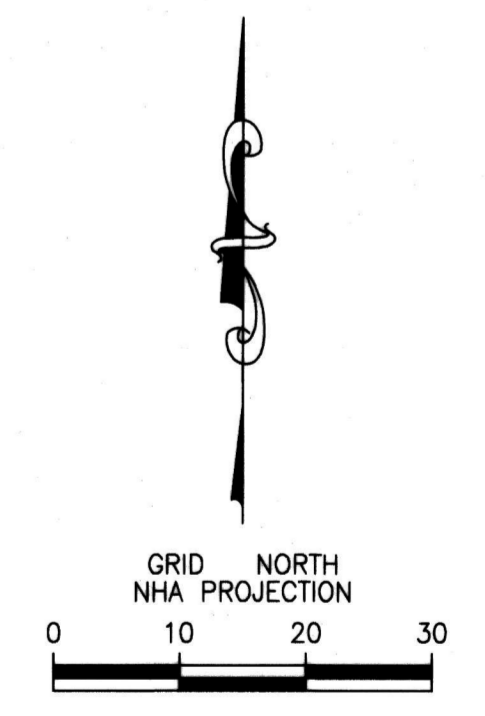


VICINITY MAP (not to scale)

MONUMENT LEGEND

- FOUND BLM CADASTRAL SURVEY BRASS CAP MONUMENT DATED 1992 UNLESS OTHERWISE NOTED
- ▲ SET CONTROL POINT UNLESS OTHERWISE NOTED
- FOUND 1/2 IN. PIPE UNLESS OTHERWISE NOTED
- SET NO. 5 REBAR WITH A YELLOW CAP MARKED "NHA AZRLS 50689"
- CP CONTROL POINT

PARCEL "A-1" OF THE BUREAU OF INDIAN AFFAIRS ADMINISTRATIVE RESERVE LAND



NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		

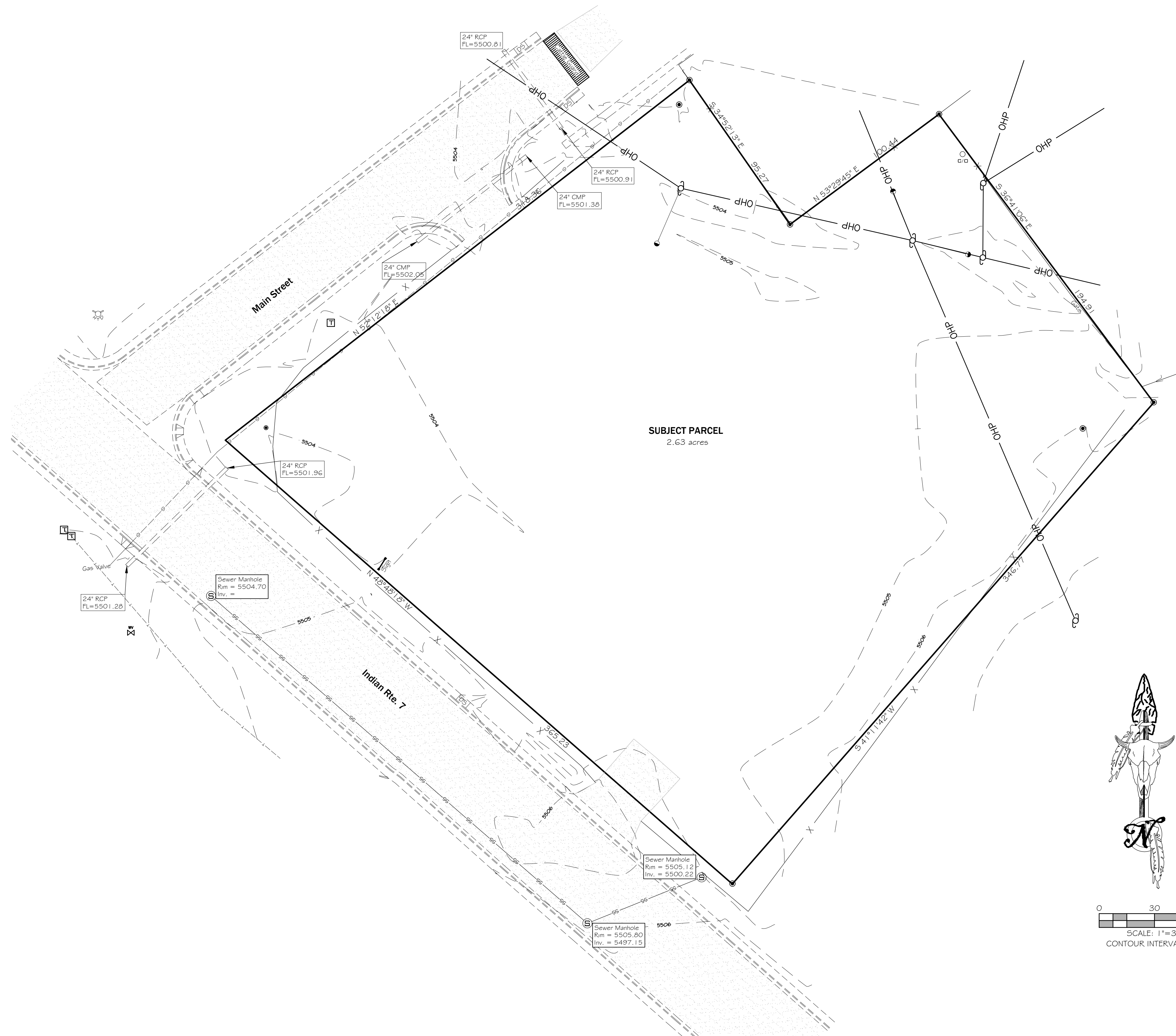
BOUNDARY PLAT OF REASSIGNMENT OF B.I.A. ADMINISTRATIVE RESERVE LAND BACK TO TRUST LAND CHINLE, APACHE COUNTY, ARIZONA



SURVEYOR'S CERTIFICATE
 I, Anson M. Carr, a duly qualified Registered Land Surveyor under the laws of the State of Arizona, do hereby certify that this survey and plat shown hereon was prepared from an actual survey conducted by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Anson M. Carr, Registered Land Surveyor, Arizona Certificate No. 36760

Checked By: MICHAEL P. PAISANO
 Check Date: 03/2018
 Drawing By: M.C.
 Drawing Date: 03/2018
 Surveyed By: A.C., M.C., V.B., H.M.
 Survey Date: 3/2018
 Sheet: 1 OF 1



SUBJECT PARCEL
2.63 acres

NARRATIVE:

This survey was to provide existing utility and topographical information for the parcel shown. This parcel is that as shown on "Boundary Plat of Reassignment of B.I.A. Administrative", signed by Anson M. Carr, and dated 5-10-2018. This survey does not represent a boundary survey of this parcel. No determination was made as to the accuracy of found corner monuments. No monuments were set in the course of this survey.

SURVEYOR'S CERTIFICATE:

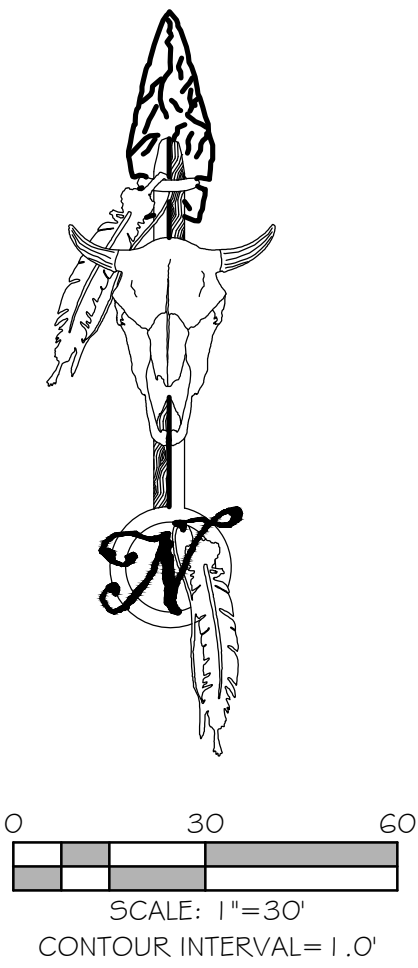
I, Kelly R. Schmutz, a duly qualified Registered Land Surveyor under the laws of the State of Arizona, do hereby certify that this survey and map shown hereon was prepared from an actual survey conducted by me or under my direct supervision and that the same is true and correct to the best of my knowledge, belief and information.



Date: 9/28/20
Kelly R. Schmutz
EXPIRES: 03/31/2022
Certificate No. 40535

LEGEND:

- FOUND MONUMENT PER SURVEY BY ANSON M. CARR, DATED 5/10/18
- EXISTING POWER POLE
- EXISTING POWER GUY ANCHOR
- EXISTING FIRE HYDRANT
- EXISTING TELEPHONE/COMMUNICATIONS BOX
- EXISTING WATER VALVE
- DS SIDEWALK DRAINAGE STRUCTURE
- SEWER CLEANOUT
- SANITARY SEWER LINE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND GAS LINE
- EXISTING CURB, GUTTER AND SIDEWALK
- OHP OVERHEAD POWER LINES
- EXISTING ASPHALT



DATE:	9/28/20
JOB NO.:	12318-20
DRAWN BY:	K.R.S.
CHECKED BY:	
SCALE:	1"=30'
DWG:	SURVEY-BASE.DWG
DATE:	
REVISIONS:	

ROSENBERG
A S S O C I A T E S
CIVIL ENGINEERS • LAND SURVEYORS

352 EAST RIVERSIDE DRIVE, SUITE A-251, GEORGE, UTAH 84790
PH (435) 673-8585
FX (435) 673-8397
WWW.RADIVIL.COM

TOPOGRAPHICAL SURVEY
FOR
SUINA DESIGN AND ARCHITECTURE

PROPOSED OFFICE BUILDING SITE
CHINLE, ARIZONA

CALL BEFORE YOU DIG!
 IT'S FREE
 CALL 1-800-528-5011

Navajo Tribal Utility Authority
 P.O. Box 170, Fort Defiance, AZ. 86504
 www.ntua.com

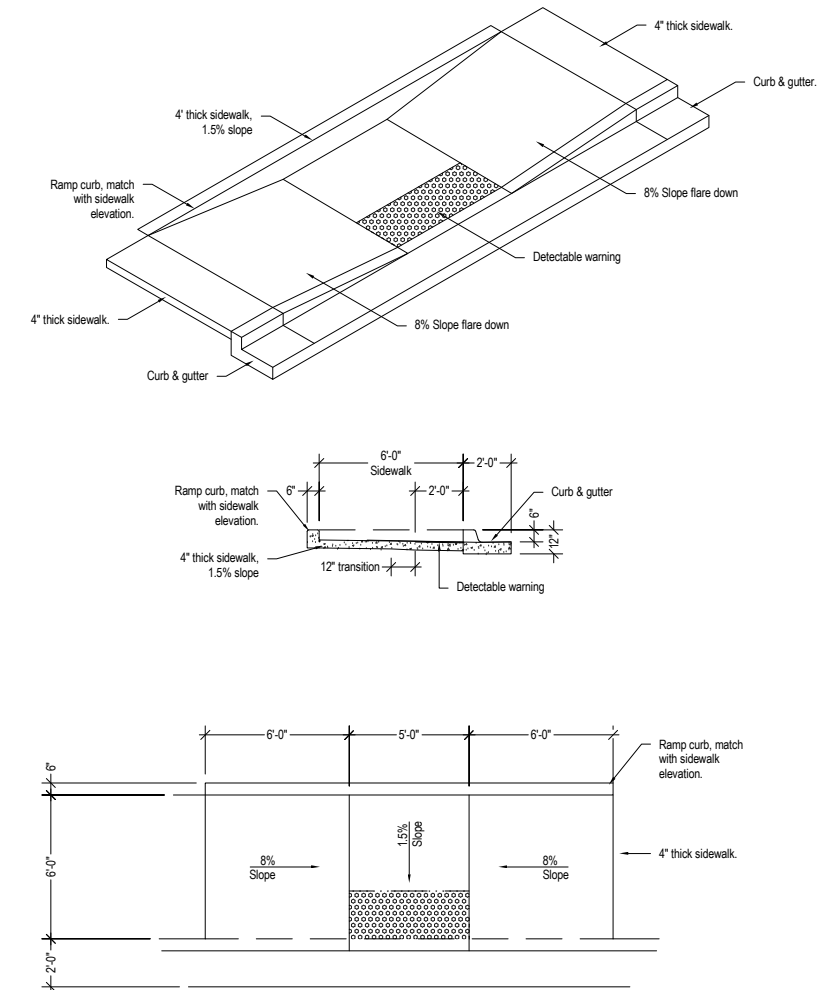
✓ Call Before You Dig
 ✓ Minimum 3 Day Notice
 ✓ Confirm Locales are Complete
 ✓ Respect the Marks
 ✓ Dig With Care

GENERAL NOTES

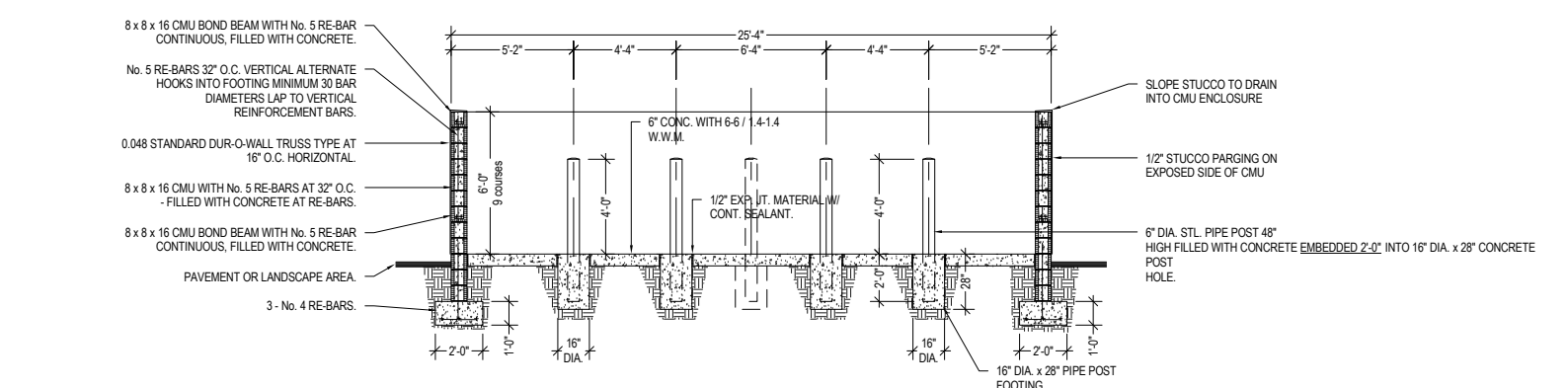
A. NEW CONSTRUCTION.

KEYED NOTES

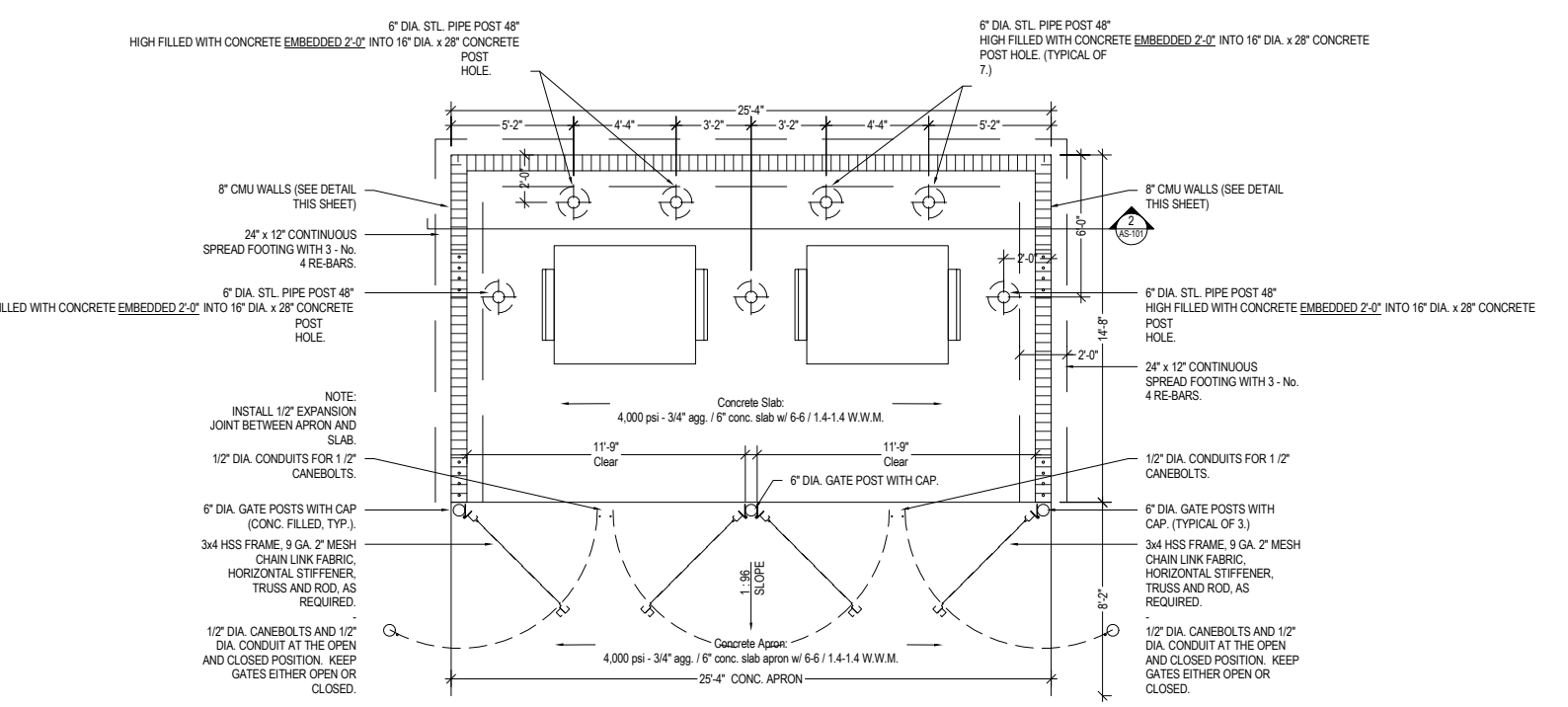
- 4.1 042000 CONCRETE MASONRY UNIT, REINFORCED, MORTAR-SET, CONCRETE-FILLED.
- 10.25 107516 FLAGPOLES, GROUND SET; U.S.A., ARIZONA, NAVAJO NATION.
- 26.1 260913 ELECTRICAL POWER MONITORING. ELECTRICAL SERVICE WITH 400 AMP. METER AND LOAD CENTER AND FLOOR CLEARANCES. RE: ELECTRICAL.
- 32.1 321216 HOT MIX ASPHALT PAVEMENT. RE: CIVIL.
- 32.2 321613 CONCRETE CURB AND GUTTER SYSTEM. RE: CIVIL.
- 32.3 321623 CONCRETE SIDEWALKS. RE: CIVIL.
- 32.7 323113 CHAIN LINK FENCE, 6 FT. RE:
- 32.8 323119 CHAIN LINK GATE. RE:
- 32.9 323913 PROTECTIVE METAL BOLLARDS. RE:
- 44.1 445113 SOLID WASTE PORTABLE CONTAINERS. PROVIDE WITH PROTECTIVE CONCRETE FILLED STEEL BOLLARDS.



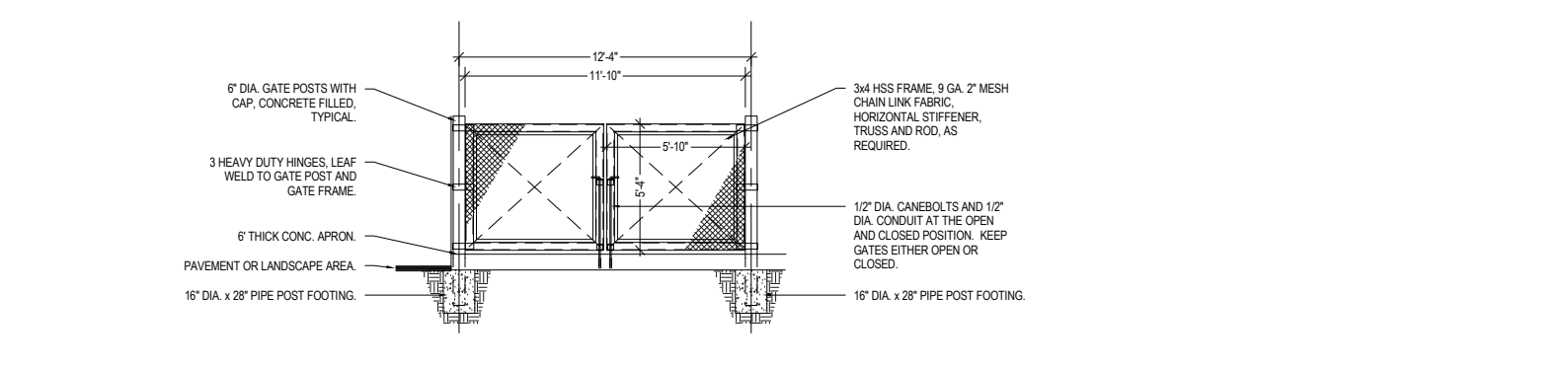
5 Site_HC Ramp
 1/8" = 1'-0"



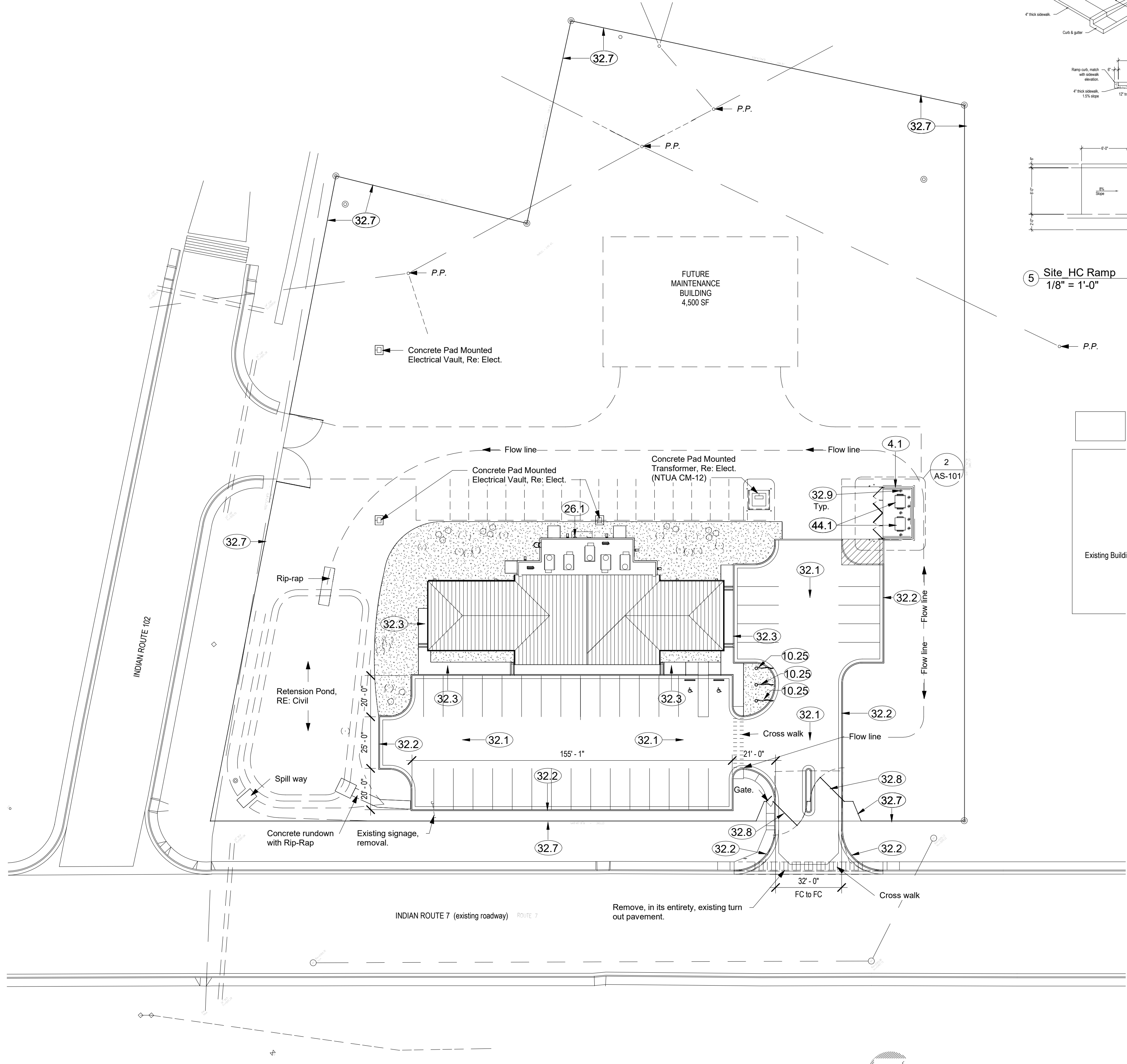
3 Refuse Section
 1/8" = 1'-0"



2 Site Refuse
 1/8" = 1'-0"



4 Refuse Gates
 1/8" = 1'-0"



1 Site
 1" = 30'-0"

SUJINA DESIGN + ARCHITECTURE
 100% NATIVE AMERICAN WOMEN OWNED

4411 McLEOD ROAD NE, SUITE A-1
 ALBUQUERQUE, NEW MEXICO 87109
 WWW.SUJINADESIGN.COM
 T: 505-766-6988



SHEET TITLE:
 SITE PLAN

PROJECT NAME:
 Chinle HMO Building
 Navajo Housing Authority

Revisions	Date	Description

PROJECT NUMBER: NHA Chinle
FILE: NHA Chinle HMO.rvt
DRWN. BY: SD+A
CHKD BY: ES
DATE: 1/11/2021

SHEET OF
AS-101

GENERAL NOTES

A. NEW CONSTRUCTION.

SUJINA DESIGN
+ ARCHITECTURE
 100% NATIVE AMERICAN WOMEN OWNED

4411 McLEOD ROAD NE, SUITE A-1
 ALBUQUERQUE, NEW MEXICO 87109
 WWW.SUJINADESIGN.COM
 T: 505-766-6968



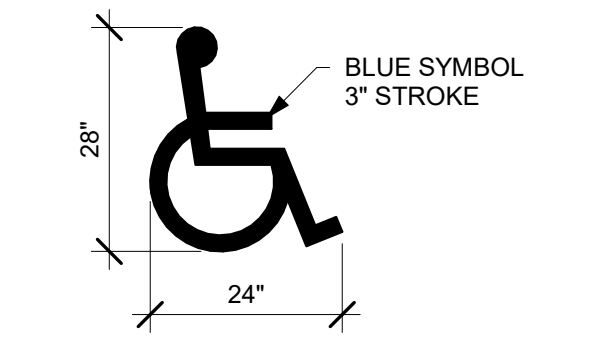
SHEET TITLE:
SITE DETAILS

PROJECT NAME:
**Chinle HMO Building
 Navajo Housing Authority**

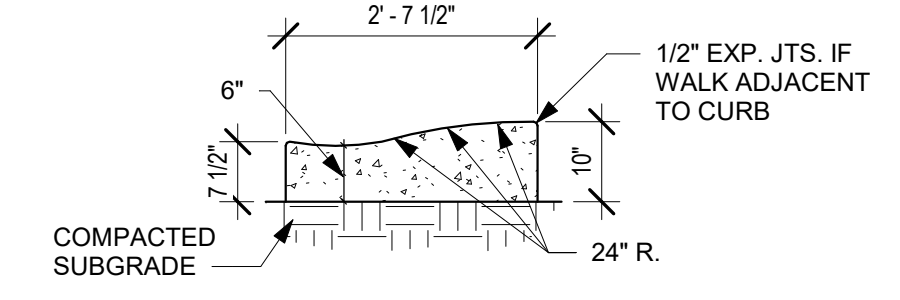
Revisions	Date	Description

PROJECT NUMBER: NHA Chinle
 FILE: NHA Chinle HMO.rvt
 DRWN. BY: SD+A
 CHKD BY: ES
 DATE: 1/11/2021

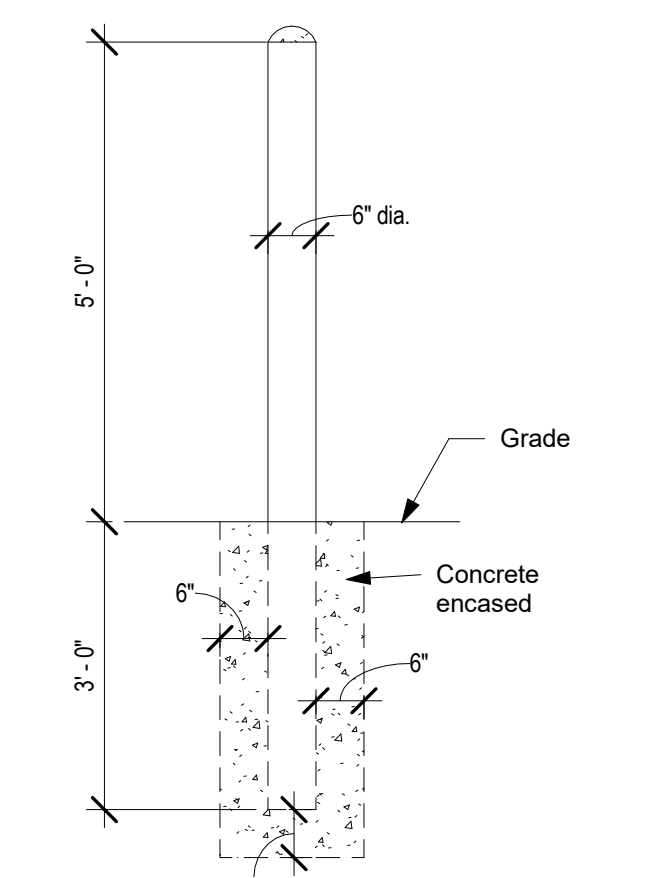
SHEET OF
AS-102



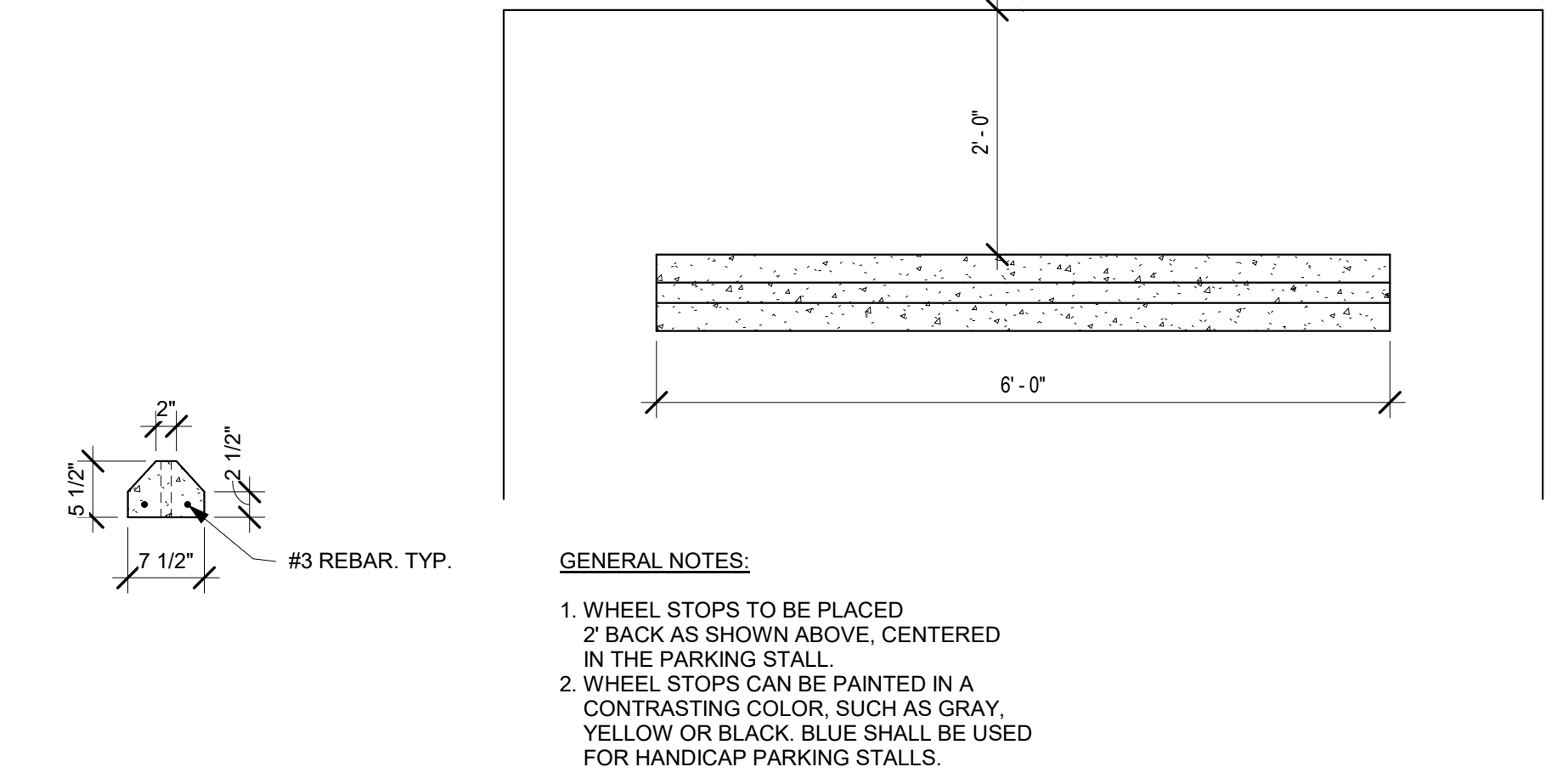
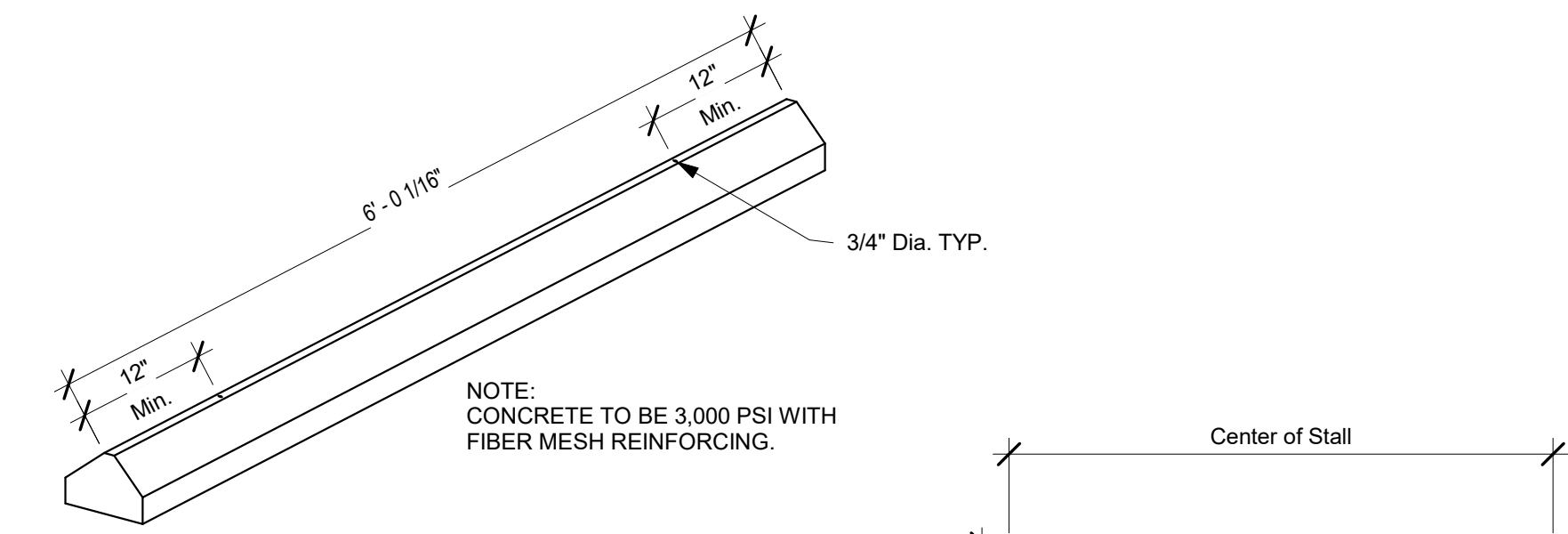
4 ACCESSIBILITY SYMBOL DETAIL
 1/2" = 1'-0"



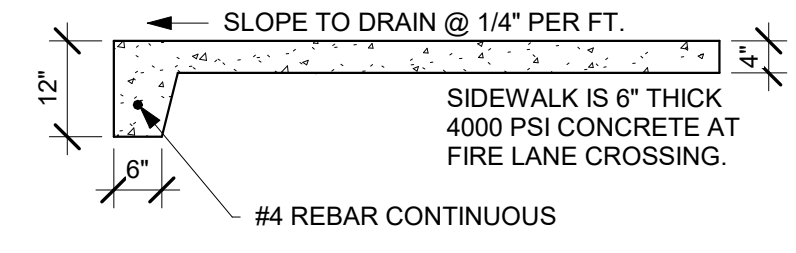
5 MOUNTABLE ROLL TYPE CURB and GUTTER
 1/2" = 1'-0"



6 STEEL BOLLARD CONCRETE FILLED DETAIL
 1/2" = 1'-0"

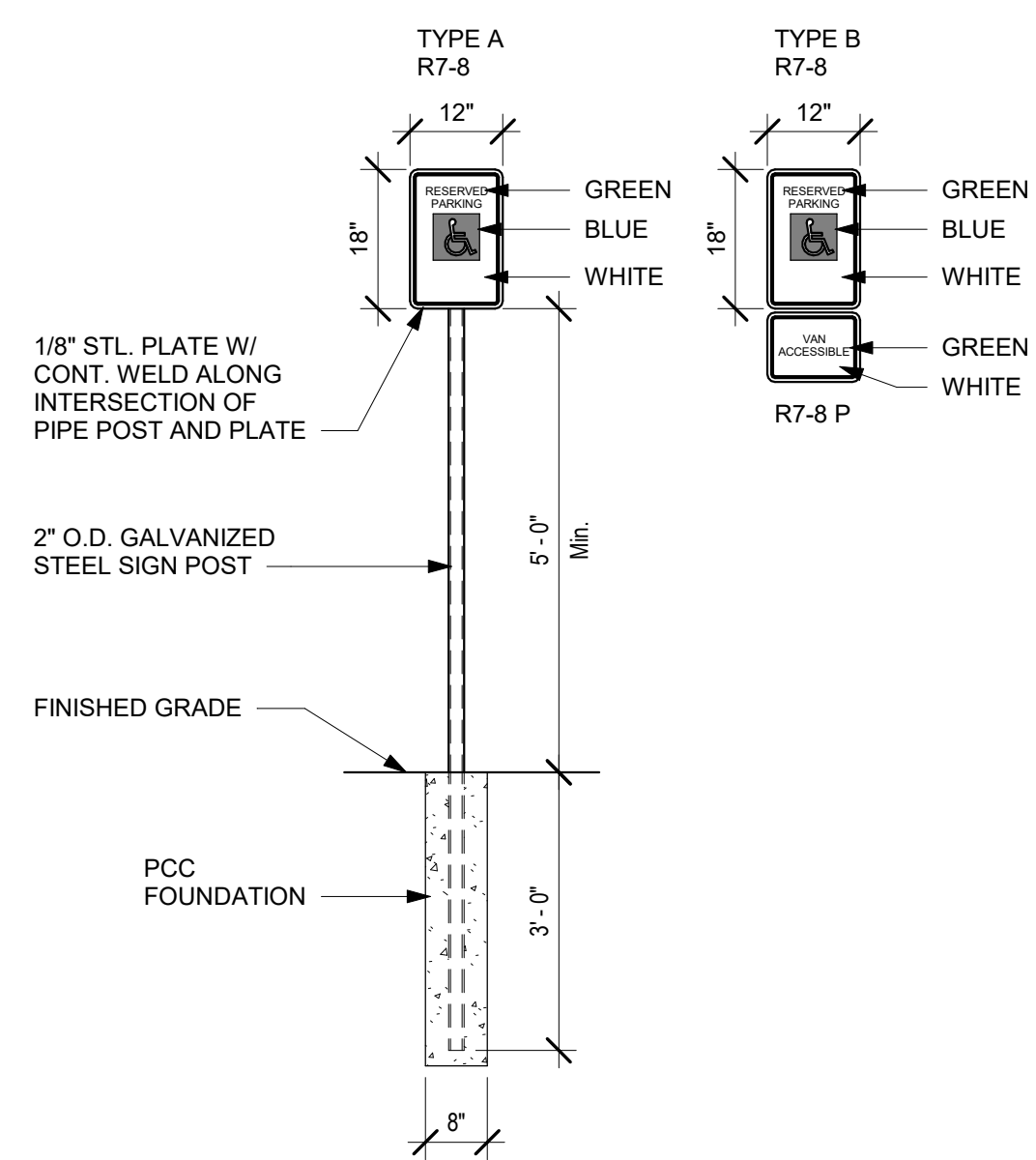


1 PARKING BUMPER DETAIL
 3/4" = 1'-0"



2 SIDEWALK - TURNED DOWN EDGE
 1/2" = 1'-0"

GENERAL NOTES:
 1. EDGES NOT SPECIFICALLY DIMENSIONED SHALL BE EDGED WITH A 3/8" EDGING TOOL.
 2. REQUIRES FULL FORM ON ALL FACES.
 3. CONSTRUCTION CONTROL JOINTS AT 6' O.C. MAX.
 4. 1/2" EXPANSION JOINTS 24" O.C., CURB RETURNS AND EACH SIDE OF DRIVES.



3 ADA PARKING SIGN DETAIL
 1/2" = 1'-0"

DATE PLOTTED: 10/28/2021 1:54:02 PM

GENERAL NOTES

- 1. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185-WELDED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT.
- 2. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE CONSTRUCTION LIMITS OF THIS PROJECT AND WILL BE RESPONSIBLE FOR ANY PRIVATE AGREEMENTS NECESSARY TO EXECUTE THIS CONTRACT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS EQUIPMENT TO PUBLIC OR PRIVATE PROPERTY.
- 3. THE CONTRACTOR SHALL HAUL AND DISPOSE OF ALL CONCRETE RUBBLE AND OTHER REMOVALS TO AN ENVIRONMENTALLY SUITABLE LOCATION.
- 4. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES 48 HOURS BEFORE COMMENCING WORK IN THE AREAS NEAR UNDERGROUND UTILITY LINES. CONTRACTOR SHALL NOT INTERFERE WITH UTILITY LINE OPERATION AND SHALL COORDINATE ALL WORK AFFECTING EXISTING UTILITIES WITH THE APPROPRIATE AUTHORITY FOR EACH UTILITY, AND THE ENGINEER SHALL BE PROMPTLY NOTIFIED OF ANY PROBLEMS OR CONFLICTS ENCOUNTERED.
- 5. ALL FILL MATERIAL SHALL MEET THE GEOTECHNICAL REPORT RECOMMENDATIONS. ALL AGGREGATES AND SUITABLE MATERIAL MUST BE OBTAINED FROM COMMERCIAL SOURCES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING A SUITABLE SOURCE MEETING ALL REQUIREMENTS OF THIS CONTRACT.
- 6. CONTRACTOR SHALL COORDINATE SITE ACCESS AND STAGING AREA WITH OWNER/ARCHITECT.
- 7. THE CONTRACTOR SHALL USE CAUTION AT ALL EXISTING STRUCTURES INCLUDING ALL UNREINFORCED MASONRY WALLS, BUILDINGS, ETC.. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO ANY STRUCTURES, DRIVEWAYS, LIGHT FIXTURES, AND WATER METERS, ETC.. AND SHALL REPAIR THE DAMAGES AT CONTRACTORS OWN EXPENSE.
- 8. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ARIZONA DOT STANDARD SPECIFICATIONS. ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NAVAJO TRIBAL UTILITY AUTHORITY (NTUA) STANDARD DRAWINGS AND SPECIFICATIONS AND THE SPECIFICATIONS IN THE PROJECT MANUAL UNLESS OTHERWISE STATED.
- 9. THE CONTRACTOR SHALL DETERMINE AND COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.
- 10. WHEN ABUTTING NEW ASPHALT TO EXISTING ASPHALT, SAW CUT EXISTING ASPHALT TO A NEAT STRAIGHT LINE TO MATCH NEW ASPHALT DEPTH.
- 11. DURING THE CONSTRUCTION OF THIS PROJECT, SOME OVERHEAD AND/OR UNDERGROUND UTILITY ADJUSTMENTS MAY HAVE TO BE ACCOMPLISHED CONCURRENTLY BY THE UTILITY OWNERS (COUNTY AND/OR PRIVATELY OWNED). THE CONTRACTOR SHALL COORDINATE AND ADVISE THE UTILITY OWNERS, ALLOWING ENOUGH TIME SO THAT THE REQUIRED UTILITY ADJUSTMENTS DO NOT IMPEDE THE CONTRACTOR'S WORK. THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS, INCONVENIENCE, OR DAMAGE SUSTAINED DUE TO ANY INTERFERENCE FROM SAID UTILITY APPURTENANCES.
- 12. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR DEVELOPING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DOCUMENT FOR THE PROJECT AND PROVIDING, BUILDING, MANAGING AND MAINTAINING ALL BEST MANAGEMENT PRACTICES (BPM'S) AND TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SPECIFIED IN THE SWPPP DOCUMENT FOR THE ENTIRE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING THE NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) WITH EPA PRIOR TO CONSTRUCTION. COORDINATE WITH NTUA AND CITY OF THOREAU AS PART OF THIS PROCESS.
- 13. ALL ASPHALT PAVED SURFACES SHALL HAVE A MINIMUM SLOPE OF 1.00%. THE CONTRACTOR SHALL FIELD VERIFY AND NOTIFY THE PROJECT ENGINEER IF ANY ASPHALT PAVED SURFACES SLOPES ARE LESS THAN 1.00% PRIOR TO CONSTRUCTION.
- 14. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING EXISTING ASPHALT PAVING. THERE SHALL BE NO PAVEMENT CUTS, UNLESS PAVEMENT CUTS ARE EXPLICITLY NEEDED. SAWCUT ASPHALT OR CURB AND GUTTER TO A CLEAN, STRAIGHT EDGE. REPLACE SECTIONS AND MATCH TO EXISTING SECTIONS OF ASPHALT, CONCRETE, BASE COURSE, AND/OR SUBGRADE PREPARATION. REMOVE AND REPLACE ANY AREAS OF DISTURBED LANDSCAPING. CONTRACTOR SHALL SUBMIT NEW SECTION TO PROJECT ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. ANY DAMAGE TO THE ASPHALT DUE TO CONSTRUCTION ACTIVITY WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- 15. ACCESS TO ALL LOCAL BUSINESSES (INCLUDING ALL DELIVERIES) AND RESIDENCES SHALL BE KEPT OPEN AT ALL TIMES. ANY ACCESS CLOSURE MUST BE SCHEDULED WITH THE PROPERTY OWNERS AT LEAST 48 HOURS IN ADVANCE AND APPROVED BY THE PROJECT ENGINEER
- 16. WHEN ABUTTING NEW CONCRETE TO EXISTING CONCRETE, SAW CUT EXISTING CONCRETE TO A NEAT STRAIGHT LINE TO MATCH NEW CONCRETE DEPTH.
- 17. DURING THE CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY TEMPORARY DRAINAGE MEASURES NECESSARY TO SAFELY CONVEY STORM WATER RUNOFF. ANY DAMAGES TO PUBLIC OR PRIVATE PROPERTY OR IMPROVEMENTS CONSTRUCTED BY THE CONTRACTOR RESULTING FROM STORM WATER FLOWS IN THE PROJECT VICINITY SHALL BE THE SOLE RESPONSIBILITY OF WESTERN TECHNOLOGIES INC.
- 18. MAINTENANCE OF DRAINAGE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER(S) OF THE PROPERTY SERVED.
- 19. PROJECT BENCHMARKS ARE AS SHOWN ON TOPOGRAPHIC SURVEY PROVIDED BY: ROSENBERG ASSOC., 352 EAST RIVERSIDE AVE., STE. A-2 ST. GEORGE, UTAH, 84790.
- 20. ALL EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM A TOPOGRAPHIC SURVEY PROVIDED BY: ROSENBERG ASSOCIATES. MILLER ENGINEERING CONSULTANTS HAS NOT UNDERTAKEN ANY FIELD VERIFICATION OF THIS INFORMATION.
- 21. THE CONTRACTOR SHALL PROVIDE MATERIAL SUBMITTALS ON ALL CIVIL SITE RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION,

GENERAL NOTES CONTINUED

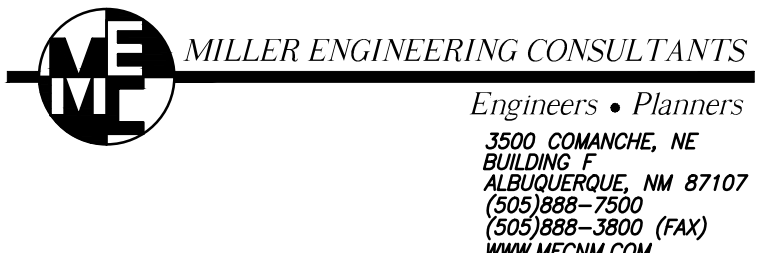
- 22. THE CONTRACTOR SHALL SUBMIT A SEED MIX DESIGN TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO STARTING THE SEEDING ON THE PROJECT. THE SEED MIX DESIGN SHALL BE A SEED MIX RECOMMENDED BY NRCS FIELD OFFICE REPRESENTATIVE APPROPRIATE FOR PROJECT LOCATION.
- ALL DISTURBED AREAS, NOT ADDRESSED BY ARCHITECTURAL LANDSCAPE PLAN WITH SLOPES OF LESS THAN 3:1 SHALL RECEIVE SEEDING. ANY SLOPES THAT ARE 3:1 OR STEEPER SLOPES SHALL RECEIVE STEEP SLOPE SEEDING. THE STEEP SLOPE SEEDING SHALL CONSIST OF SEEDING IN CONJUNCTION WITH A 100% COCONUT FIBER BLEND EROSION BLANKET (NORTH AMERICAN GREEN C125) OR APPROVED EQUAL. THE COCONUT FIBER EROSION BLANKET AND ASSOCIATED SEEDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.
- 23. THE CONTRACTOR SHALL DEVELOP THE TRAFFIC CONTROL PLAN AND SHALL PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES AND CONSTRUCTION SIGNING IN ACCORDANCE WITH THE "MUTCD" (LATEST EDITION) DURING THE CONSTRUCTION PERIOD (WORKING AND NON-WORKING HOURS). ANY NECESSARY DEVIATION FROM THE "MUTCD" SHALL HAVE PRIOR APPROVAL OF THE PROJECT ENGINEER OR CONSTRUCTION INSPECTOR. THE CONTRACTOR SHALL SUBMIT A COPY OF THE PROPOSED TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER PRIOR TO CONSTRUCTION. THIS PLAN SHALL SATISFY THE REQUIREMENTS FOR PUBLIC SAFETY AND TRAVELING PUBLIC AS WELL AS THE REQUIREMENTS OF "MUTCD" AND SHALL BE REVISED AS NECESSARY TO MEET THE REQUIREMENTS DURING THE CONSTRUCTION PERIOD. THE SECTIONS OF ROADWAY WHICH ARE OPEN TO TRAFFIC SHALL BE KEPT IN GOOD RIDING CONDITION AND CLEAR OF HAZARDS TO TRAFFIC. THE SAFETY AND COMFORT OF THE TRAVELING PUBLIC AND ACCESS TO RESIDENCES AND OTHER TURNOUTS SHALL BE OF PRIMARY CONSIDERATION.
- 24. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- 25. THE CONTRACTOR SHALL NOTIFY THE PROJECT ARCHITECT AND PROJECT ENGINEER OF ANY CONFLICT WITH SITE UTILITIES OR FEATURES AND OBTAIN A RESOLUTION PRIOR TO PROCEEDING WITH THE WORK
- 26. CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY TO PROTECT FROM DAMAGING EXISTING UTILITY LINES, WALKS, LANDSCAPING, ETC. WHICH WILL REMAIN AS PART OF THE FINAL SYSTEM. CONTRACTOR SHALL REPAIR AND/OR RESTORE THESE ITEMS AS REQUIRED TO PRE-CONSTRUCTION CONDITION.
- 27. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND OBTAINING ALL NECESSARY PERMITS AS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT.
- 28. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY SPOT ELEVATIONS ON THE GRADING AND DRAINAGE PLAN WHICH APPEAR TO BE AMBIGUOUS OR DO NOT MEET THE INTENT OF THE GRADING AND DRAINAGE PLAN.
- 29. INSTALLATION OF ALL PIPE FITTINGS, ANGLES, BENDS, WYES, TEES ETC. REQUIRED TO INSTALL THE WATERLINE AND SANITARY SEWER LINE WILL BE CONSIDERED INCIDENTAL TO THE WATERLINE AND SANITARY SEWER LINE ITEM AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS WORK.
- 30. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SUBSURFACE UTILITY ENGINEERING COMPANY TO PERFORM "DESIGNATING AND LOCATING" FOR ALL EXISTING UTILITIES WITHIN PROPOSED UTILITY CORRIDORS ON THIS PROJECT. THE RESULTS OF THE DESIGNATING AND LOCATING SHALL BE PROVIDED TO THE ENGINEER PRIOR TO CONSTRUCTION SO THAT ANY POTENTIAL UTILITY CONFLICTS MAY BE RESOLVED PRIOR TO CONSTRUCTION.
- 31. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1.95%, ALL SIDEWALKS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 4.95%, AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 16:1.
- 32. ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THIS REQUIREMENT.
- 33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY COMPACTION TESTING, QUALITY ASSURANCE TESTING AND ANY OTHER TESTING REQUIRED ON CIVIL RELATED ITEMS AS OUTLINED IN THE SPECIFICATIONS.
- 34. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE NTUA TECHNICAL SPECIFICATIONS FOR MATERIALS AND WORKMANSHIP FOR WATER AND WASTEWATER FACILITIES, SEPTEMBER, 2008.
- 35. THE CONTRACTOR SHALL CONTACT THE LOCAL NTUA DISTRICT OFFICE TO REQUEST FOR UTILITY LINE LOCATES PRIOR TO CONSTRUCTION. THE UTILITY PROVIDER SHALL IDENTIFY THEIR UTILITY LINES AND MARK LOCATIONS OF THE UNDERGROUND UTILITIES.
- 36. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM NTUA THE PERMISSION TO TAP (PTT) APPLICATION PRIOR TO TAPPING EXISTING WATER AND SEWER MAINS.
- 37. THE CONTRACTOR SHALL COORDINATE WITH NTUA PRESENT AT THE SITE TO VERIFY LOCATION, DEPTH, SIZE AND TYPE OF UNDERGROUND UTILITIES.
- 38. THE CONTRACTOR IS TO COORDINATE WITH NTUA REGARDING WATER SHUT OFF WITH AT LEAST 3 DAYS ADVANCE NOTICE TO ISOLATE LINE(S), TO NOTIFY AFFECTED CUSTOMERS AND TO MINIMIZE OUTAGE TIME PRIOR TO CONNECTION OF NEW WATER SERVICE.
- 39. UNLESS OTHERWISE DIRECTED, ONLY AUTHORIZED NTUA STAFF WILL BE ALLOWED TO CLOSE/OPEN WATER VALVES FOR ANY CONNECTIONS TO EXISTING LINES AND FOR THE USAGE OF WATER.
- 40. ROUGH GRADING SHALL BE COMPLETED WITHIN 1/10 OF A FOOT OF PLAN GRADE PRIOR TO INSTALLING WATER AND WASTEWATER UTILITIES.
- 41. COORDINATE WITH LOCAL UTILITY PROVIDERS FOR ANY REMOVAL OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.
- 42. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE. THE CONTRACTOR SHALL RESTORE AT OWN EXPENSE ANY DAMAGE TO EXISTING UTILITIES.
- 43. ALL WATER MAINS SHALL BE POLYVINYL CHLORIDE (PVC) PRESSURE PIPE WITH A MINIMUM OF 200 PSI PRESSURE CLASS UNLESS SPECIFIED OTHERWISE.

GENERAL NOTES CONTINUED

- 44. ANY ABRUPT CHANGE IN LINE ARE GRADE SHALL REQUIRE MJ FITTINGS. ALL FITTINGS AND VALVES 4" OR GREATER IN SIZE SHALL BE MADE FROM DUCTILE IRON FURNISHED WITH MECHANICAL JOINT ENDS AND SHALL HAVE A PRESSURE RATING OF 350 PSI. ALL MJ ENDS SHALL HAVE "MEGALUG" MECHANICAL RESTRAINTS WITH CONCRETE THRUST BLOCK PER STD DTL WS-19.
- 45. POLYETHYLENE WRAPPING (8 MILS MINIMUM THICKNESS IN ACCORDANCE WITH AWWA STANDARD C-105) SHALL BE INSTALLED AROUND DUCTILE IRON PIPES, FITTINGS, AND VALVES, FIRE HYDRANT BARRELS AND RODS AND CLAMPS.
- 46. DEFLECTION (VERTICAL OR HORIZONTAL) OF PIPES IS PERMITTED AND SHALL CONFORM TO AMERICAN WATER WORKS ASSOCIATION (AWWA) JOINT DEFLECTION FOR AWWA PRESSURE PIPE AND AT 80% OF MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION, WHICHEVER IS MORE STRINGENT. A COPY OF THE MANUFACTURER'S RECOMMENDATION SHALL BE SUBMITTED TO NTUA.
- 47. TRENCHES SHALL NOT BE BACKFILLED (INCLUDING BEDDING MATERIAL ABOVE SPRING LINE OF THE PIPE) UNTIL THE PIPE LAYING HAS BEEN INSPECTED AND APPROVED FOR BACKFILLING BY A NTUA REPRESENTATIVE.
- 48. A WARNING MARKING TAPE SHALL BE INSTALLED AT 12" MINIMUM AND 18" MAXIMUM ABOVE THE WATER AND SEWER PIPE. MARKING TAPE SHALL CONSIST OF ONE LAYER OF ALUMINUM FOIL LAMINATED BETWEEN TWO COLORED LAYERS OF INERT PLASTIC FILM. THE TAPE SHALL BE A MINIMUM OF 5 MILS THICK AND 3 INCHES WIDE. TAPE SHALL BEAR A CONTINUOUS, PRINTED MESSAGE EVERY 16 TO 36 INCHES WARNING OF THE INSTALLATION BURIED BELOW.
- 49. ALL NEW WATER LINES SHALL BE TESTED. HYDROSTATIC TESTING, DISINFECTION, FLUSHING AND BACTERIOLOGICAL TESTING (SHALL BE CONDUCTED IN ACCORDANCE WITH NTUA TECHNICAL SPECIFICATIONS FOR MATERIALS AND WORKMANSHIP FOR WATER AND WASTEWATER FACILITIES, SEPTEMBER 2008) SHALL BE COORDINATED WITH NTUA AT LEAST 3 DAYS IN ADVANCE. NTUA REPRESENTATIVE SHALL BE PRESENT TO RECORD THE INFORMATION AND TO CERTIFY THE TESTING.
- 50. ALL NEW SEWER MAINS SHALL BE TESTED. SEWER LINE: HYDROSTATIC OR AIR TESTING AND LAMP TEST FOR ALIGNMENT; AND MANHOLES: HYDROSTATIC OR VACUUM TESTING SHALL BE DONE IN ACCORDANCE WITH NTUA TECHNICAL SPECIFICATIONS FOR MATERIALS AND WORKMANSHIP FOR WATER AND WASTEWATER FACILITIES, SEPTEMBER 2008. NTUA REPRESENTATIVE SHALL BE PRESENT TO RECORD THE INFORMATION AND TO CERTIFY THE TESTING.
- 51. THE CONTRACTOR IS TO PURCHASE AMI WATER METER(S) WITH MODULE(S) AT THE LOCAL NTUA DISTRICT OFFICE.
- 52. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF ALL UTILITIES TO OWNER AND NTUA IN HARD COPY AND DIGITAL FORMAT.
- 53. UTILITY CONSTRUCTION ACCEPTANCE AND UTILITY TRANSFER: THE CONTRACTOR SHALL SCHEDULE A FINAL INSPECTION WITH NTUA HQ ENGINEERING AND LOCAL DISTRICT OFFICE, OWNER AND GENERAL CONTRACTOR AT THE END OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE FOLLOWING DOCUMENTS: AS-BUILT DRAWING, APPROVED PTT, HYDROSTATIC TESTING RESULTS, BACTERIOLOGICAL TESTING RESULTS, APPROVED MATERIALS SUBMITTALS AND COST OF PLANT. PLEASE FOLLOW THE NTUA TECHNICAL SPECIFICATIONS FOR MATERIALS AND WORKMANSHIP FOR WATER AND WASTEWATER FACILITIES, SEPTEMBER 2008, SECTION TP 5.0
- 54. THE CONTRACTOR/ENGINEER SHALL PROVIDE WARRANTY ON ALL NEW WATER AND WASTEWATER FACILITIES AGAINST DEFECTS IN MATERIALS, WORKMANSHIP AND FOR ANY DESIGN DEFICIENCIES, ERRORS AND OMISSIONS FOR THE PERIOD OF ONE YEAR WHEN THE FACILITIES WERE INSPECTED, ACCEPTED AND APPROVED.

DRAWING INDEX	
C-100	GENERAL NOTES AND SHEET INDEX
C-101	GRADING AND DRAINAGE PLAN
C-102	ENLARGED GRADING AND DRAINAGE PLAN
C-103	SITE UTILITY PLAN
C-104	EROSION CONTROL PLAN
C-501	MISCELLANEOUS DETAILS
C-502	MISCELLANEOUS WATER DETAILS
C-503	MISCELLANEOUS SANITARY DETAILS

NOTE TO CONTRACTOR:
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH THE SITE AND BUILDING ELEMENTS PRIOR TO ANY CONSTRUCTION ACTIVITIES. COORDINATE FIELD INFORMATION WITH ARCHITECT PRIOR TO ANY CONSTRUCTION ACTIVITIES.



GENERAL NOTES AND DRAWING INDEX

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+ ARCHITECTURE
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SHEET TITLE:	GENERAL NOTES AND DRAWING INDEX
	PROJECT NAME: Chinle HMO Building Navajo Housing Authority

Revisions	Description	Date	Mark

PROJECT NUMBER: NHA Chinle
FILE: NHA Chinle HMO.rvt
DRWN. BY: DW
CHKD BY: VAM
DATE: 7/08/2021
SHEET OF
C-100

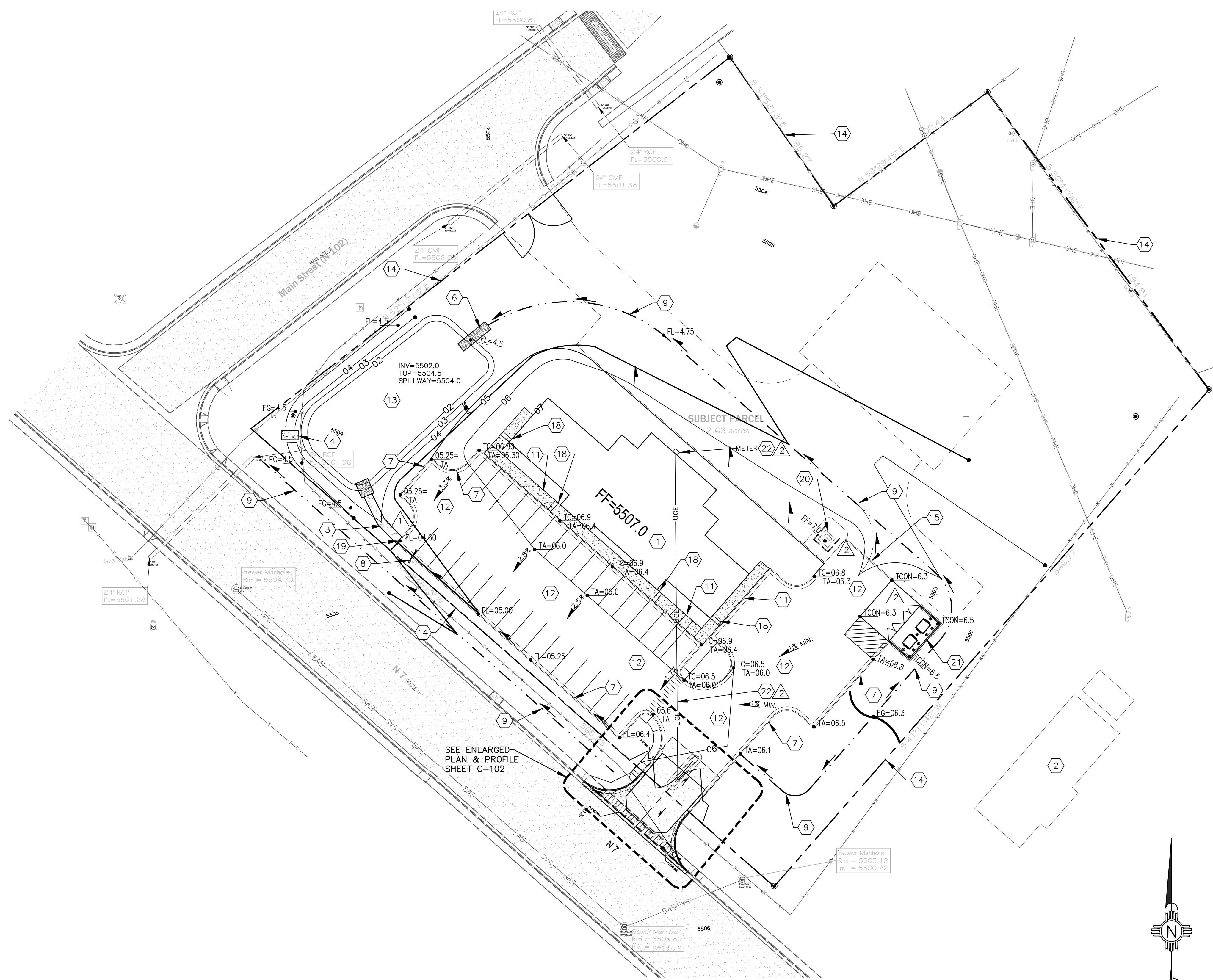
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LEGEND

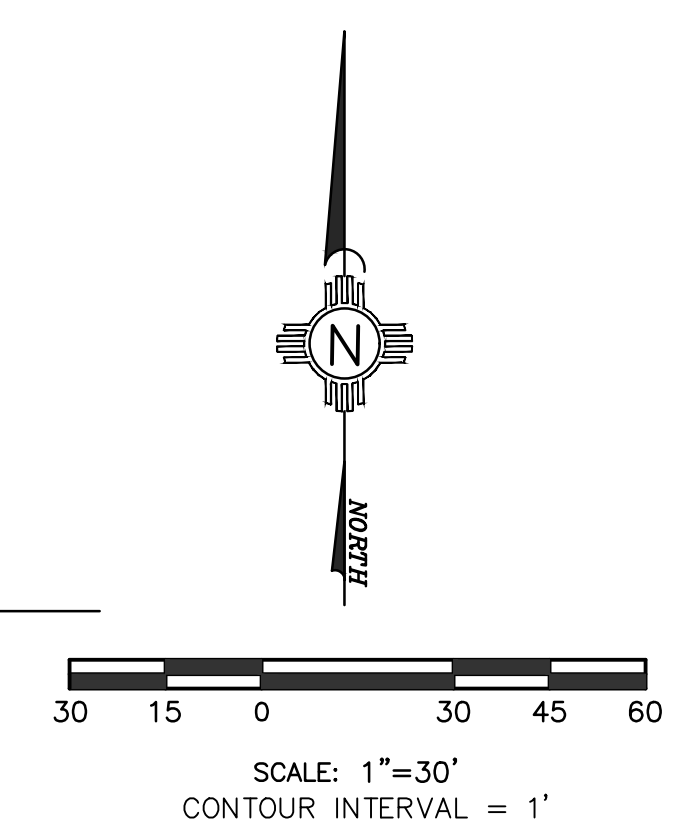
- 38.00
FG PROPOSED SPOT ELEVATIONS
(FINISHED GRADE)
- MATCH
(95.19) MATCH EXISTING ELEVATIONS
- TCON TOP OF CONCRETE
- FL FLOW LINE, CURB
- INV INVERT
- FG FINISH GRADE
- TBC TOP OF BASE COURSE
- TC TOP OF CURB
- TG TOP OF GRATE
- TA TOP OF ASPHALT
- BP BOTTOM OF POND
- TP TOP OF POND
- FLOW ARROW
- GRADE BREAK—HIGH POINT
- SWALE
- SD STORM DRAIN LINE
- 5895 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- - - 5895 EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- NEW RETAINING WALL

KEYED NOTES

1. PROPOSED BUILDING FF=5707.0.
2. EXISTING BUILDING TO REMAIN.
3. NEW 3' WIDE CONCRETE RUNDOWN. SEE DETAIL SHEET C-501.
4. CONCRETE SPILLWAY PAD. ELEVATION = 5504.0 SEE DETAIL SHEET C-501.
5. NEW GRADE BREAK - HIGH POINT.
6. NEW RIP RAP RUNDOWN SEE DETAIL SHEET C-501.
7. NEW CONCRETE CURB AND GUTTER. SEE DETAIL SHEET C-501.
8. EXISTING SIGN TO BE REMOVED.
9. NEW EARTHEN SWALE. SEE DETAIL SHEET C-501.
10. NEW CONCRETE VALLEY GUTTER. SEE DETAIL SHEET C-501.
11. NEW CONCRETE SIDEWALK/FLATWORK SEE ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL SUBMIT A JOINT PATTERN FOR REVIEW PRIOR TO CONSTRUCTION.
12. NEW HOT MIX ASPHALT (HMA) PAVING PARKING LOT. SEE DETAIL SHEET C-501.
13. NEW RETENTION POND. INV.=5502.0, TOP=5504.5, SPILLWAY=5504.0 SEE SHEET C-501.
14. APPROXIMATE LOCATION OF PROPERTY LINE.
15. NEW CONCRETE FLUSH CURB. SEE DETAIL SHEET C-501.
16. C-102. SAWCUT EXISTING ASPHALT PAVEMENT AS NECESSARY TO INSTALL NEW CONCRETE VALLEY GUTTER. MATCH EXISTING ELEVATIONS. SEE SHEET C-501 FOR DETAILS.
17. C-102. NEW LIGHT DUTY ASPHALT PAVEMENT. SEE DETAIL SHEET C-501 FOR PAVEMENT SECTION DETAIL. SAWCUT EXISTING ASPHALT TO CLEAN STRAIGHT EDGE AND MATCH WITH NEW ASPHALT PAVING.
18. 12" WIDE x 6" DEEP SIDEWALK CULVERT. SEE DETAIL SHEET C-102.
- ▲ 19. NEW CURB CUT. SEE CONCRETE RUNDOWN DETAIL SHEET C-501.
- ▲ 20. TRANSFORMER PAD LOCATION. FF=7.0
- ▲ 21. TRASH ENCLOSURE LOCATION.
- ▲ 22. ELECTRICAL CONDUIT AND METER. SEE SHEET ES-101.



① GRADING AND DRAINAGE PLAN
1" = 30'-0"



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SHEET TITLE:
PRELIMINARY SITE GRADING PLAN

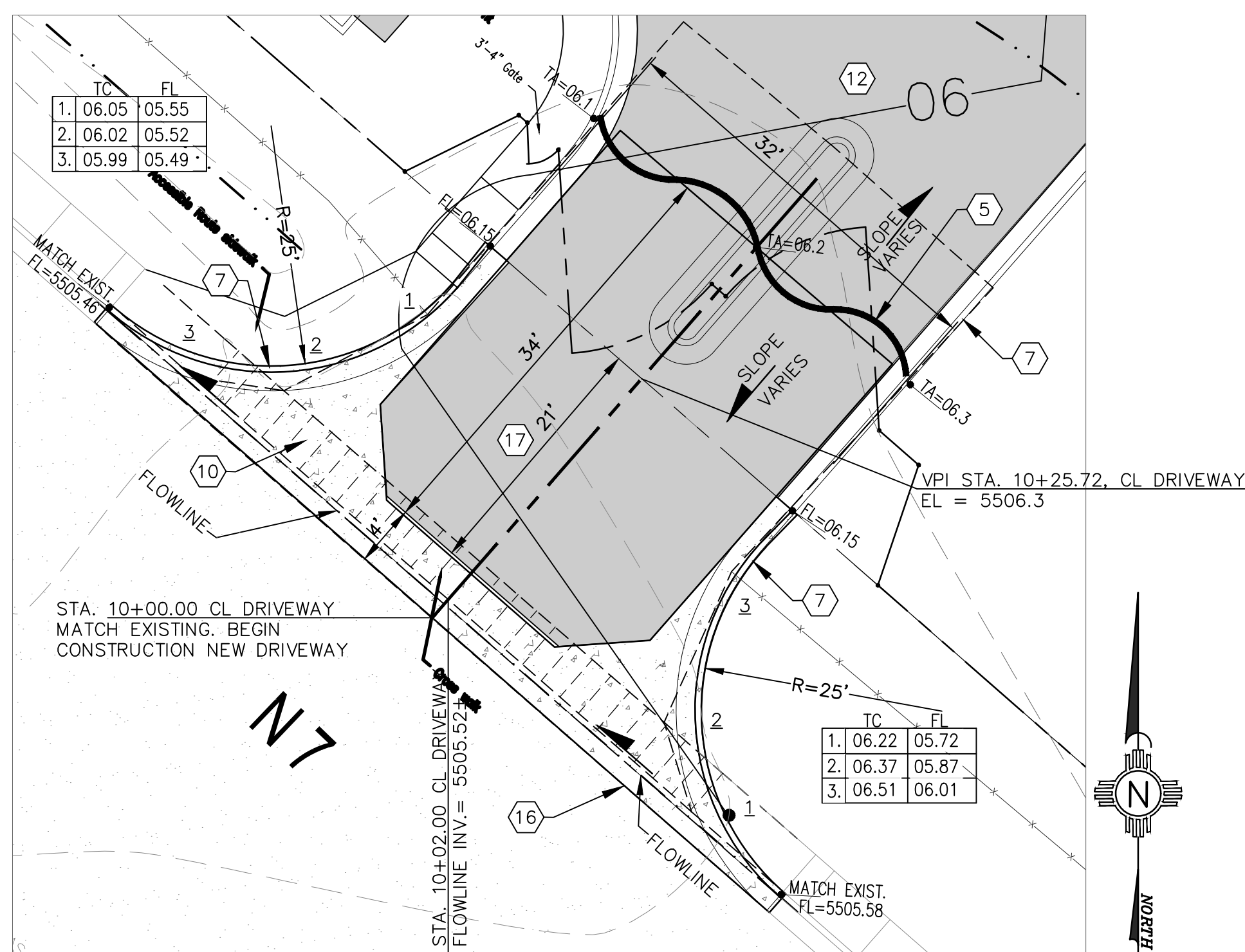
PROJECT NAME:
**Chinle HMO Building
Navajo Housing Authority**

Revisions	Date	Description
1	06/30/2021	ADD CURB CUT
2	09/23/2021	ADD NEW DUMPSTER AND TRANSFORMER PAD ELECTRICAL METER LOCATIONS

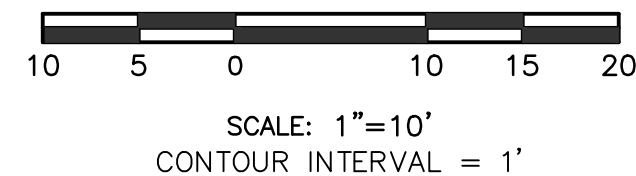
PROJECT NUMBER:	NHA Chinle
FILE:	NHA Chinle HMO.rvt
DRWN. BY:	DW
CHKD BY:	VAM
DATE:	1/14/2021
SHEET OF	C-101

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T:\Clients\SD-A-Architects\Chinle\HMO Building\ACAD\SHETS\C-101 G & D PLAN_120220.dwg, C-101 G & D PLAN_9/24/2021 10:14:04 AM,
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1 ENLARGED ENTRANCE PLAN
1" = 10'-0"

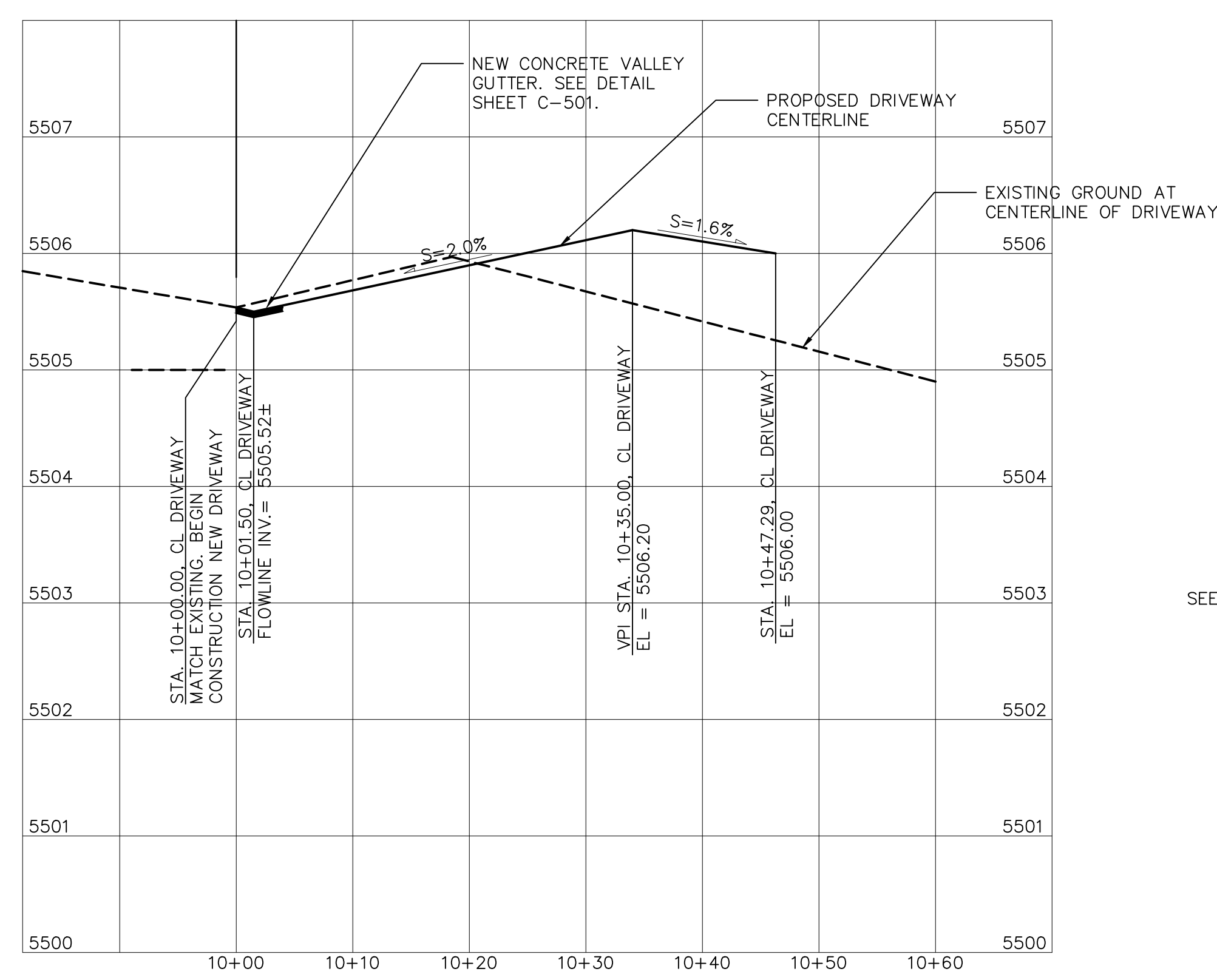


LEGEND

- 38.00 FG PROPOSED SPOT ELEVATIONS (FINISHED GRADE)
- MATCH (95.19) MATCH EXISTING ELEVATIONS
- TC ON TOP OF CONCRETE
- FL FLOW LINE, CURB
- INV INVERT
- FG FINISH GRADE
- TBC TOP OF BASE COURSE
- TC TOP OF CURB
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- 5895 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- 5895 EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- NEW RETAINING WALL

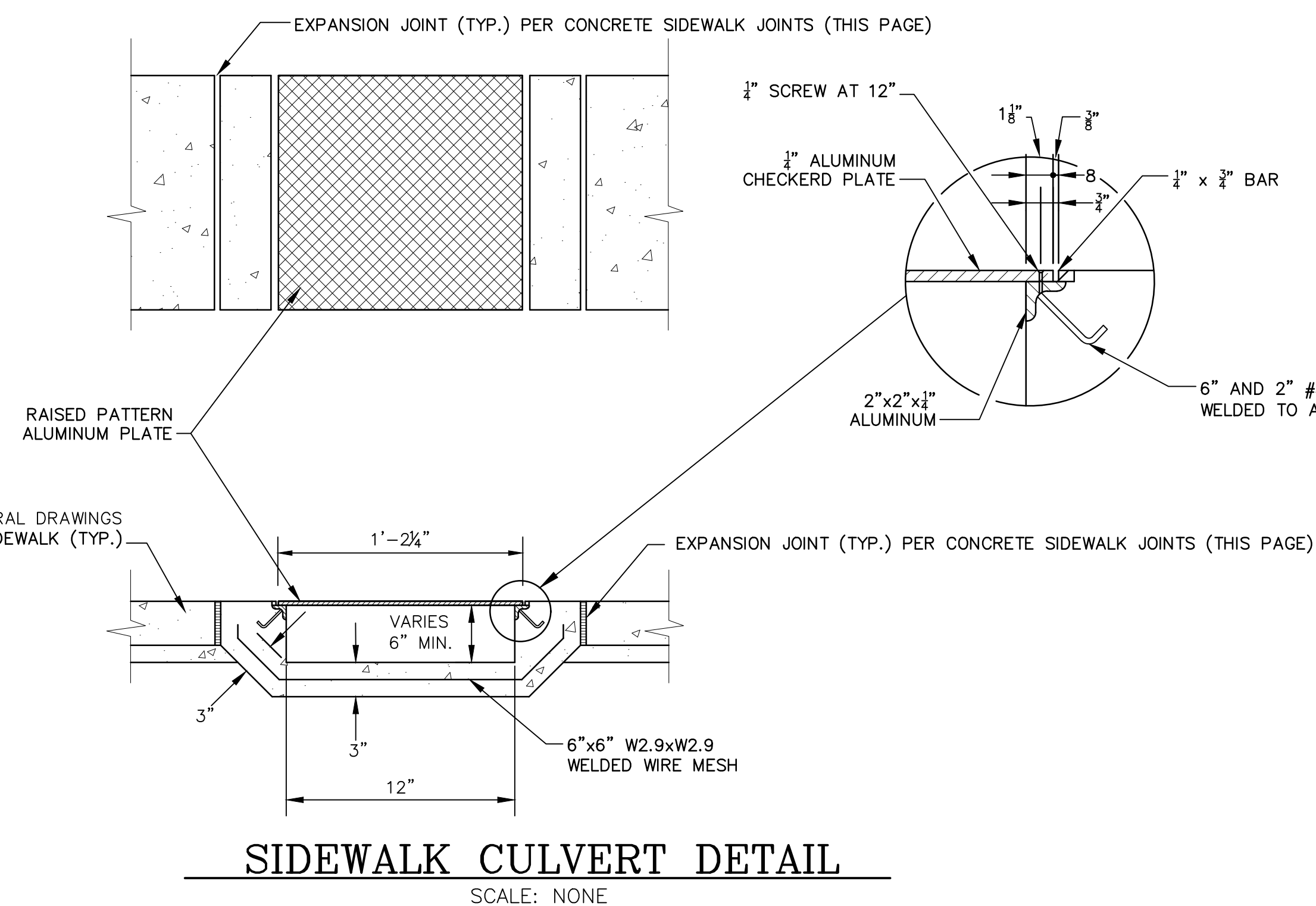
KEYED NOTES

1. PROPOSED BUILDING FF=5707.0.
2. EXISTING BUILDING TO REMAIN.
3. NEW 3' WIDE CONCRETE RUNDOWN. SEE DETAIL SHEET C-501.
4. CONCRETE SPILLWAY PAD. ELEVATION = 5504.0. SEE DETAIL SHEET C-501.
5. NEW GRADE BREAK - HIGH POINT.
6. NEW RIP RAP RUNDOWN. SEE DETAIL SHEET C-501.
7. NEW CONCRETE CURB AND GUTTER. SEE DETAIL SHEET C-501.
8. EXISTING SIGN TO BE REMOVED.
9. NEW EARTHEN SWALE. SEE DETAIL SHEET C-501.
10. NEW CONCRETE VALLEY GUTTER. SEE DETAIL SHEET C-501.
11. NEW CONCRETE SIDEWALK/FLATWORK SEE ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL SUBMIT A JOINT PATTERN FOR REVIEW PRIOR TO CONSTRUCTION.
12. NEW HOT MIX ASPHALT (HMA) PAVING PARKING LOT. SEE DETAIL SHEET C-501.
13. NEW RETENTION POND. INV.=5502.0, TOP=5504.5, SPILLWAY=5504.0 SEE SHEET C-501.
14. APPROXIMATE LOCATION OF PROPERTY LINE.
15. NEW CONCRETE HEADER CURB. SEE DETAIL SHEET C-501.
16. SAWCUT EXISTING ASPHALT PAVEMENT AS NECESSARY TO INSTALL NEW CONCRETE VALLEY GUTTER. MATCH EXISTING ELEVATIONS. SEE SHEET C-501 FOR DETAILS.
17. NEW LIGHT DUTY ASPHALT PAVEMENT. SEE DETAIL SHEET C-501 FOR PAVEMENT SECTION DETAIL. SAWCUT EXISTING ASPHALT TO CLEAN STRAIGHT EDGE AND MATCH WITH NEW ASPHALT PAVING.



1 ENLARGED ENTRANCE PROFILE

SCALE: HORIZ 1" = 10'-0" VERT. 1" = 1'-0"



SIDEWALK CULVERT DETAIL

SCALE: NONE

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SHEET TITLE: **ENTRANCE PLAN AND PROFILE**

PROJECT NAME: **Chinle HMO Building**
Navajo Housing Authority

Revisions	Mark	Date	Description

PROJECT NUMBER: NHA Chinle
FILE: NHA Chinle HMO.rvt
DRWN. BY: MEC
CHKD BY: VAM
DATE: 2/25/2021

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SHEET OF
C-102

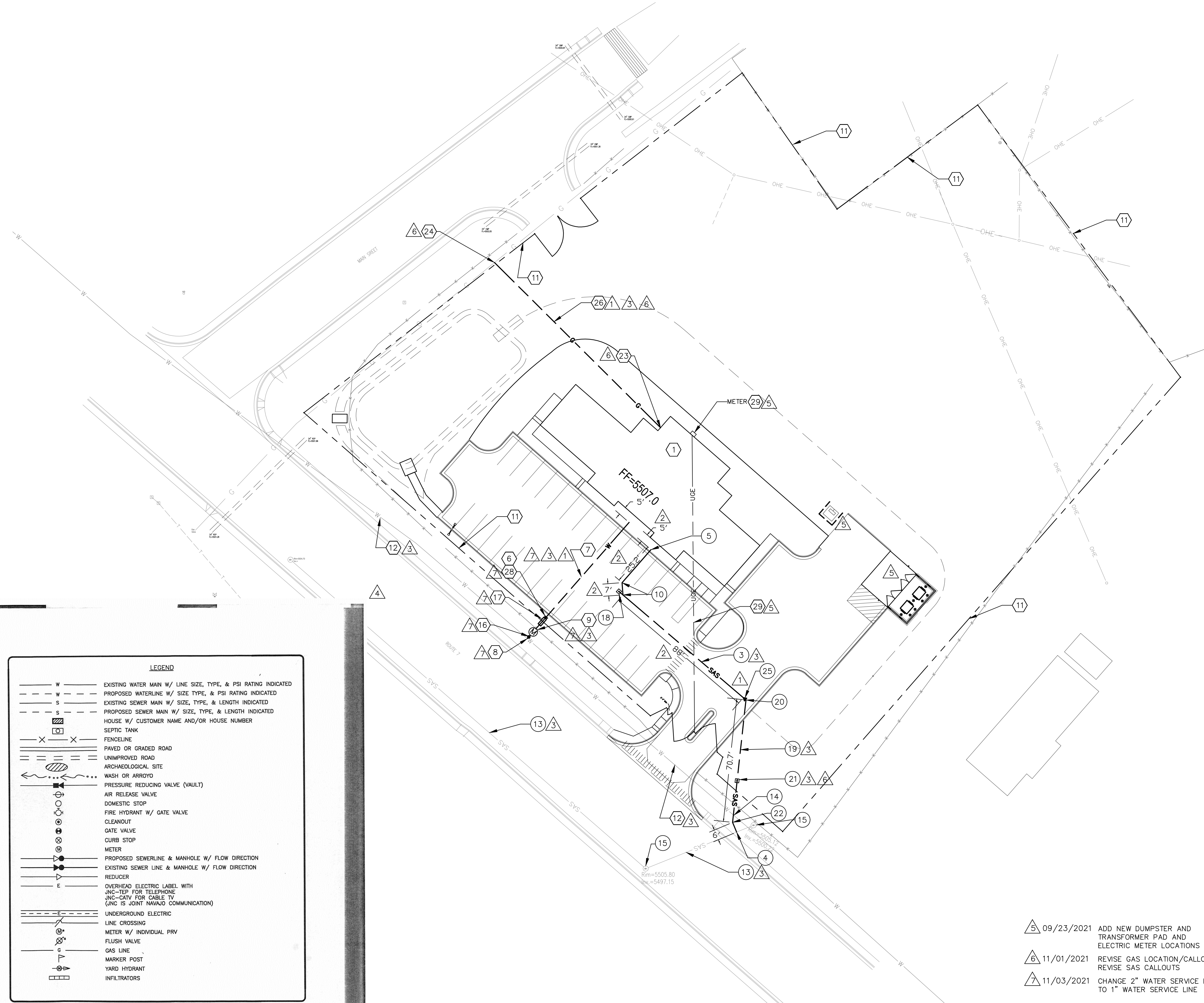
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LEGEND:

- W — PROPOSED WATER SERVICE LINE
- SAS — PROPOSED SANITARY SEWER LINE
- W — EXISTING WATER SERVICE LINE
- S — EXISTING SANITARY SEWER LINE
- PROPOSED SINGLE SAS CLEAN OUT
- PROPOSED DOUBLE SAS CLEAN OUT
- M PROPOSED WATER METER
- PROPOSED FIRE HYDRANT
- PROPOSED MANHOLE

KEYED NOTES

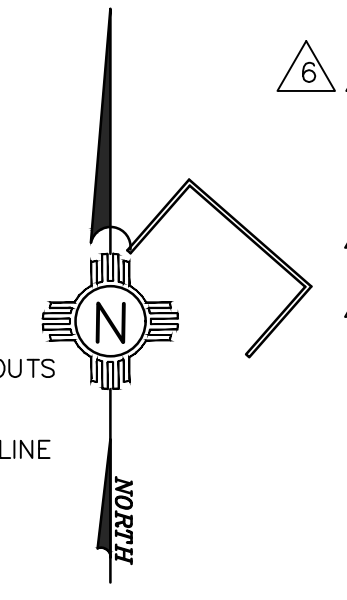
1. NEW BUILDING LOCATION. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
2. NOT USED.
3. NEW 88 LF 4" SAS LINE, SLOPE = 2% MIN. SDR-35PVC GASKETED PIPE PER NTUA STD. DETAIL WWS-10. CONTRACTOR SHALL COORDINATE WITH PROJECT ENGINEER FOR LOCATION AND DEPTHS PRIOR TO CONSTRUCTION.
4. CONNECT NEW 6" SEWER TO EXISTING SAS MAIN LINE @ 10' FROM CENTER OF EXISTING SAS MANHOLE. (INV.=5499.76±) SEE DETAIL SHEET C-503.
5. POINT OF SAS CONNECTION TO PROPOSED BUILDING. INV=5502.0. SEE MECHANICAL PLANS PL111 FOR LOCATION OF CONNECTION LOCATION.
6. POINT OF WATER LINE CONNECTION TO PROPOSED BUILDING. SEE MECHANICAL PLANS PP111 FOR LOCATION AND ELEVATION OF CONNECTION LOCATION.
7. NEW 1 1/2" DOMESTIC WATER LINE (MIN. 4' BURY). PER NTUA STANDARD DRAWINGS AND SPECIFICATION WS-15. SEE DETAIL SHEET C-502.
8. CONNECT NEW 1" WATER SERVICE (MIN. 4' BURY) TO EXISTING WATER MAIN, PER NTUA STANDARD DETAIL WS-1aC AND WS-1c. SEE DETAIL SHEET C-502.
9. NEW 1" WATER METER, PER NTUA STANDARD DRAWING WS-1a. SEE DETAIL SHEET C-502.
10. NEW 4"-45' WYE, SDR-35PVC PER NTUA STD. DETAIL WWS-12. SEE SHEET DETAIL C-503.
11. PROPERTY LINE.
12. EXISTING WATER MAIN. LOCATION TO BE FIELD VERIFIED.
13. EXISTING SAS MAIN. FIELD VERIFY LOCATION PRIOR TO CONNECTION.
14. FIELD VERIFY LOCATION OF EXISTING WATER MAIN AT NEW SAS CROSSING. SEE DETAIL WWS-8 ON SHEET C-503 FOR MINIMUM CLEARANCE.
15. EXISTING SAS MANHOLE.
16. CONNECT NEW 1" SERVICE LINE TO EXISTING WATER MAIN AND PLACE NEW 1" GATE VALVE PER NUTA STANDARD DETAIL WS-16.
17. 1" REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY AND HOT BOX PER NUTA STANDARD DETAILS WS-22 AND WS-22a PER 2017 NTUA STANDARD DETAILS.
18. 4" SINGLE CLEAN-OUT PER NTUA STANDARD DETAIL WWS-12.
19. NEW 52 LF OF 6" SDR-35PVC @ 1% SLOPE.
20. NEW 6" WYE SDR-35PVC PER NTUA STANDARD DRAWING DETAIL WWS-13. INV=5501.28.
21. 6" SINGLE 2-WAY CLEAN-OUT PER NTUA STANDARD DETAIL WWS-13. SEE DETAIL SHEET C-503.
22. NEW 6"-45' BEND SDR-35PVC PER NTUA STANDARD DRAWING DESIGN.
23. CONNECT NEW 1" PE 3408 GAS SERVICE LINE TO METER AT BUILDING. SEE PLUMBING DRAWINGS FOR CONTINUATION. INSTALL GAS METER AND REGULATOR ASSEMBLY FOR 497 CFH LOAD IN ACCORDANCE WITH NTUA REQUIREMENT AND DETAILS. CONFORM TO ALL NTUA REQUIREMENTS ON INSTALLATION.
24. EXISTING 2" PE 3408 GAS MAIN. NTUA WILL INSTALL NEW 1" GAS SERVICE TO EXISTING MAIN.
25. 4"x6" SDR-35PVC REDUCER PER NTUA STANDARD DRAWING DESIGN.
26. NEW 1" GAS SERVICE. GAS SERVICE PIPE SHALL BE ASTM D2513 MANUFACTURED AND INSTALLED PER THE STANDARD AND PER NTUA REQUIREMENTS AND STANDARDS INCLUDING STEEL RISER PIPE AT METER LOCATION.
27. NOT USED.
28. INSTALL 1"x1 1/2" REDUCER AT REDUCED PRESSURE BACKFLOW PREVENTER.
29. ELECTRICAL CONDUIT AND METER. SEE SHEET ES-101.



LEGEND

- W — EXISTING WATER MAIN W/ LINE SIZE, TYPE, & PSI RATING INDICATED
- W — PROPOSED WATERLINE W/ SIZE TYPE, & PSI RATING INDICATED
- S — EXISTING SEWER MAIN W/ SIZE, TYPE, & LENGTH INDICATED
- S — PROPOSED SEWER MAIN W/ SIZE, TYPE, & LENGTH INDICATED
- HOUSE W/ CUSTOMER NAME AND/OR HOUSE NUMBER
- SEPTIC TANK
- FENCELINE
- PAVED OR GRADED ROAD
- UNIMPROVED ROAD
- ARCHAEOLOGICAL SITE
- WASH OR ARROYO
- PRESSURE REDUCING VALVE (VAULT)
- AIR RELEASE VALVE
- DOMESTIC STOP
- FIRE HYDRANT W/ GATE VALVE
- CLEANOUT
- GATE VALVE
- CURB STOP
- METER
- PROPOSED SEWERLINE & MANHOLE W/ FLOW DIRECTION
- EXISTING SEWER LINE & MANHOLE W/ FLOW DIRECTION
- REDUCER
- OVERHEAD ELECTRIC LABEL WITH JNC-TIP FOR TELEPHONE
- JNC-CATV FOR CABLE TV (AND IS JOINT NAVAJO COMMUNICATION)
- UNDERGROUND ELECTRIC
- LINE CROSSING
- METER W/ INDIVIDUAL PRIV
- FLUSH VALVE
- GAS LINE
- MARKER POST
- YARD HYDRANT
- INFILTRATORS

2 SITE UTILITY PLAN 1" = 30'-0"



- 5/09/23/2021 ADD NEW DUMPSTER AND TRANSFORMER PAD AND ELECTRIC METER LOCATIONS
- 6/11/01/2021 REVISE GAS LOCATION/CALLOUTS REVISE SAS CALLOUTS
- 7/11/03/2021 CHANGE 2" WATER SERVICE LINE TO 1" WATER SERVICE LINE

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SHEET TITLE:
 SITE UTILITY PLAN
PROJECT NAME:
 Chinle HMO Building
 Navajo Housing Authority

Revisions	Mark	Date	Description
	1	06/30/2021	ADD GAS SERVICE, MOVE WATER SERVICE LINE
	2	08/17/2021	UPDATE WATER LINE SIZE
	3	08/26/2021	ADDED NHA COMMENTS
	4	08/30/2021	ADDED NHA COMMENTS

PROJECT NUMBER: NHA Chinle
 FILE: NHA Chinle HMO.rvt
 DRWN. BY: MEC
 CHKD BY: VAM
 DATE: 2/25/2021

SHEET OF
C-103

MEC MILLER ENGINEERING CONSULTANTS
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 (505)888-3800 (FAX)
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T:\Clients\SD-A Architects\Chinle\HMO Building\CADD\SHEETS\C-103 SITE UTILITY PLAN_12022020.dwg, C-103 SITE UTIL. PLAN, 1/14/2021 4:16:51 PM.
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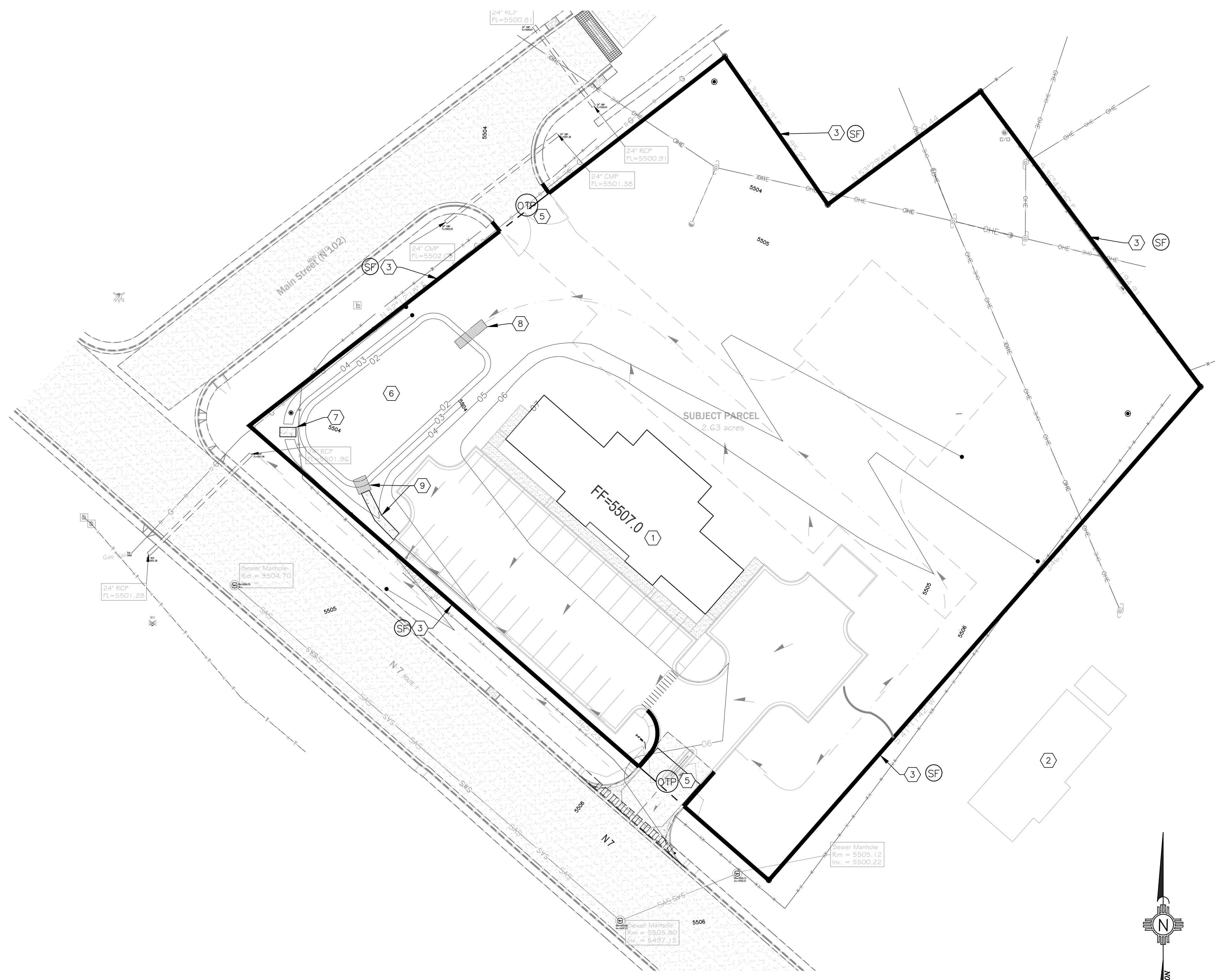
• 38.00 FG	PROPOSED SPOT ELEVATIONS (FINISHED GRADE)
• MATCH (95.19)	MATCH EXISTING ELEVATIONS
TCON	TOP OF CONCRETE
FL	FLOW LINE, CURB
INV	INVERT
FG	FINISH GRADE
TBC	TOP OF BASE COURSE
TC	TOP OF CURB
TG	TOP OF GRATE
TA	TOP OF ASPHALT
BP	BOTTOM OF POND
TP	TOP OF POND
→	FLOW ARROW
~	GRADE BREAK—HIGH POINT
---	SWALE
SD	STORM DRAIN LINE
— 5895 —	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
- - - 5895 - - -	EXISTING MAJOR CONTOUR
- - -	EXISTING MINOR CONTOUR
—	NEW SILT FENCE

GENERAL NOTES

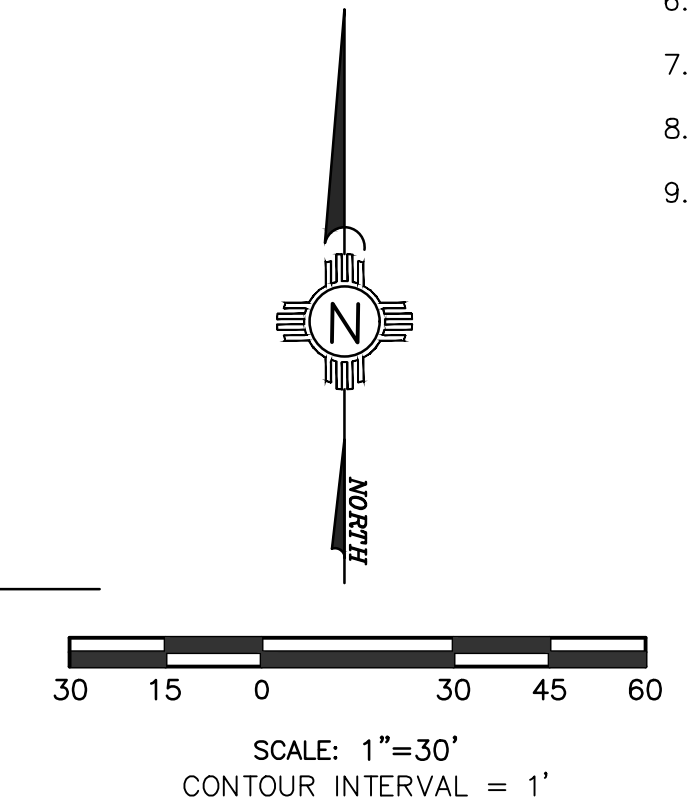
- IF DIRT IS PRESENT IN THE STREET, THE STREET SHOULD BE SWEEPED EVERY FEW DAYS OR THE SAME DAY IF RAIN IS IMMINENT.
- WHEN CUTTING THE STREET (SC) FOR UTILITIES DIRT SHOULD BE PLACED ON THE UPHILL SIDE OF THE STREET CUT AND THE AREA SWEEPED AFTER THE WORK IS COMPLETE.
- ON STREETS WHERE THE LONGITUDINAL SLOPE IS STEEPER THAN 2.5%, WATTLES OR J-HOOK SILT FENCE SHOULD BE PLACED IN THE FRONT YARD SWALE.
- WHEN INSTALLING UTILITIES BEHIND THE CURB, THE EXCAVATED DIRT SHOULD BE NOT BE PLACED IN THE STREET.
- WHEN DOING WORK IN THE CITY ROW (e.g. SIDEWALK, DRIVE PADS, UTILITIES, ETC...) PREVENT DIRT FROM GETTING INTO STREET. IF DIRT IS PRESENT IN THE STREET, THE STREET SHOULD BE SWEEPED EVERY FEW DAYS OR THE SAME DAY IF RAIN IS IMMINENT.

KEYED NOTES

- PROPOSED BUILDING FF=5707.0.
- EXISTING BUILDING TO REMAIN.
- EXISTING PROPERTY LINE.
- SILT FENCE.
- OFFSITE TRACKING PROTECTION.
- NEW RETENTION POND. SEE SHEET C-501.
- CONCRETE SPILLWAY PAD. SEE SHEET C-501.
- RIP RAP RUNDOWN. SEE SHEET C-501.
- CONCRETE RUNDOWN AND RIP RAP RUNDOWN. SEE SHEET C-501.



1 TEMPORARY EROSION CONTROL PLAN
1" = 30'-0"



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SHEET TITLE:
TEMPORARY EROSION CONTROL PLAN

PROJECT NAME:
**Chinle HMO Building
Navajo Housing Authority**

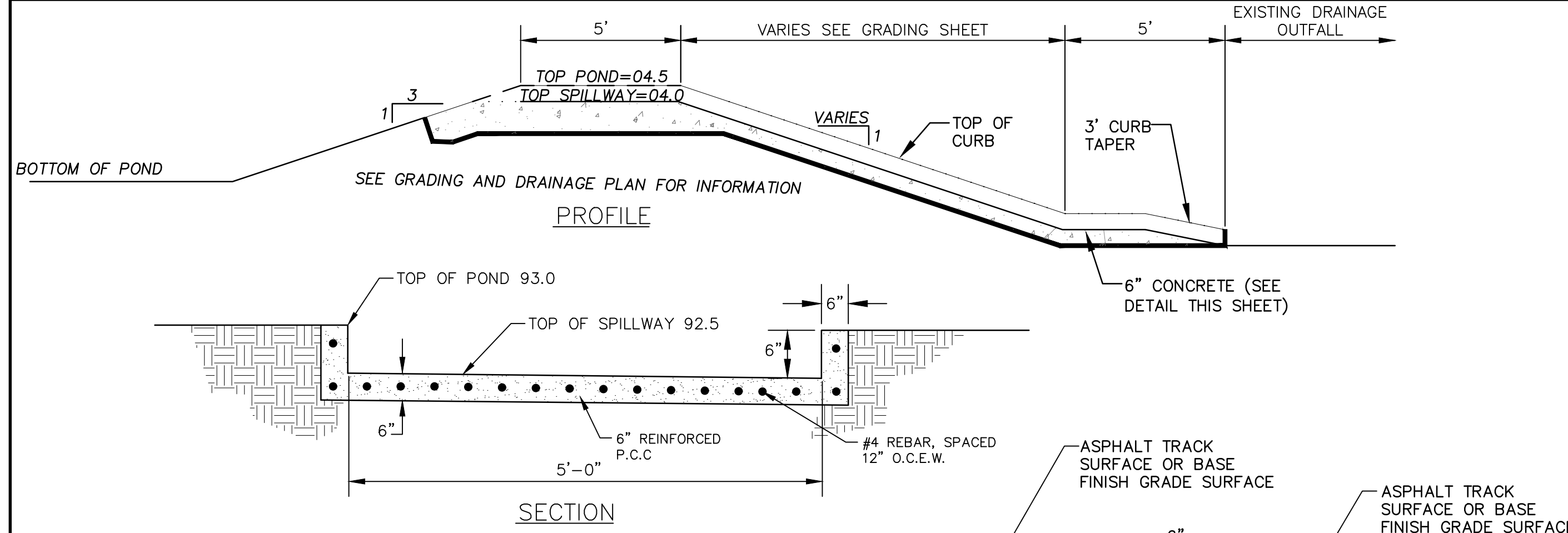
Revisions	Mark	Date	Description

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FILE: NHA Chinle HMO.rvt
DRWN. BY: DW
CHKD BY: VAM
DATE: 7/08/2021

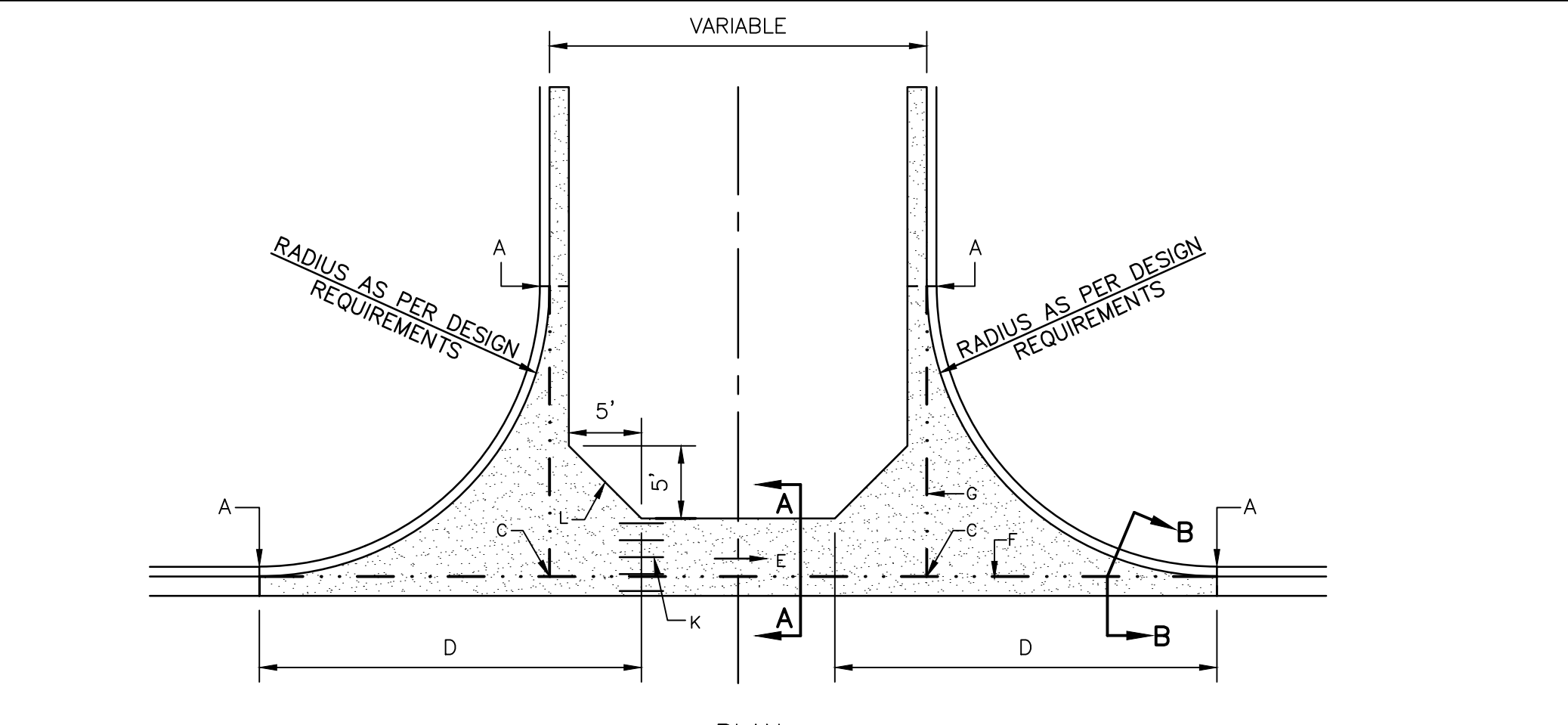
SHEET OF
C-104

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(505)888-3800 (FAX)
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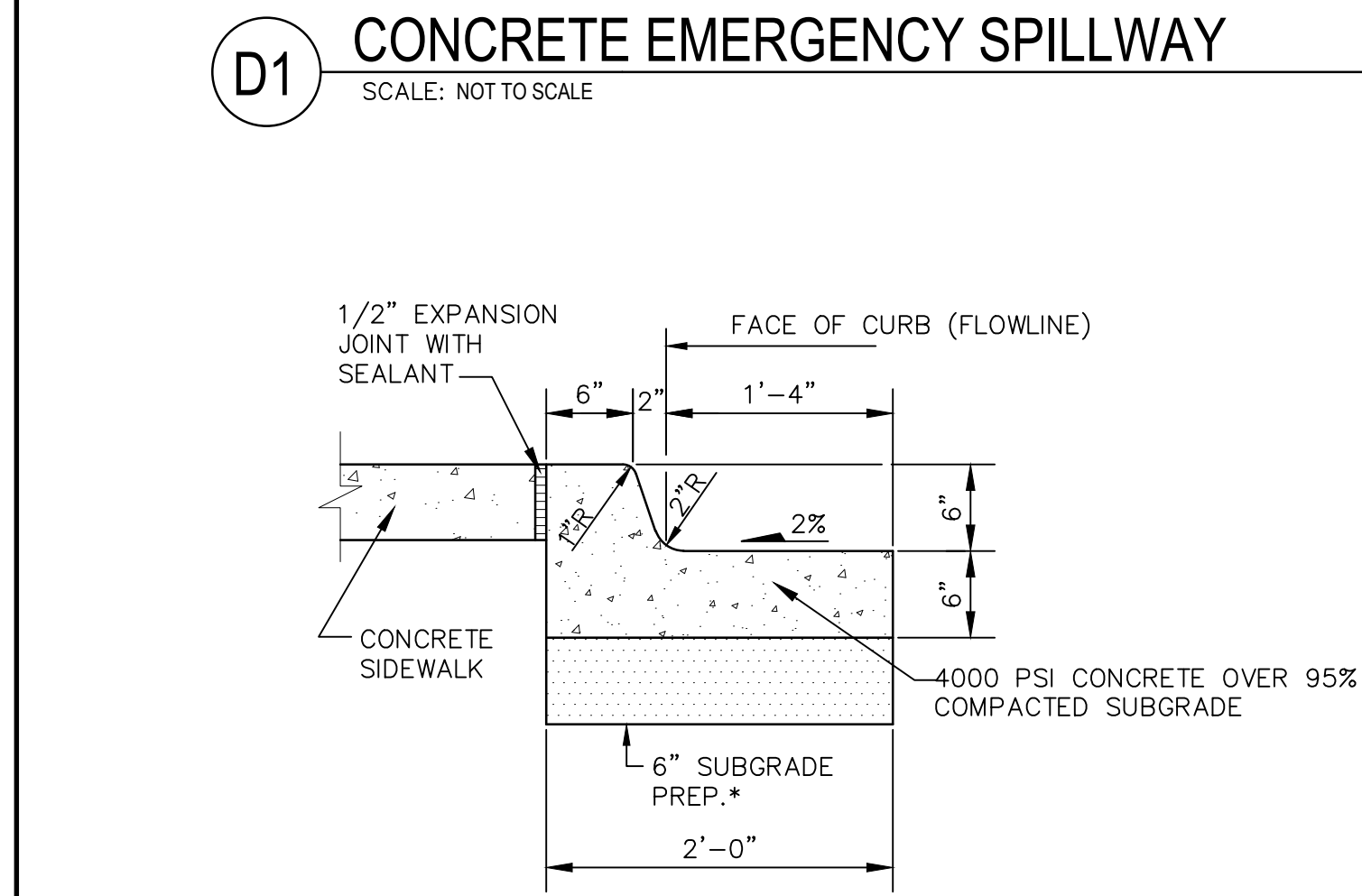
D1 CONCRETE EMERGENCY SPILLWAY
SCALE: NOT TO SCALE



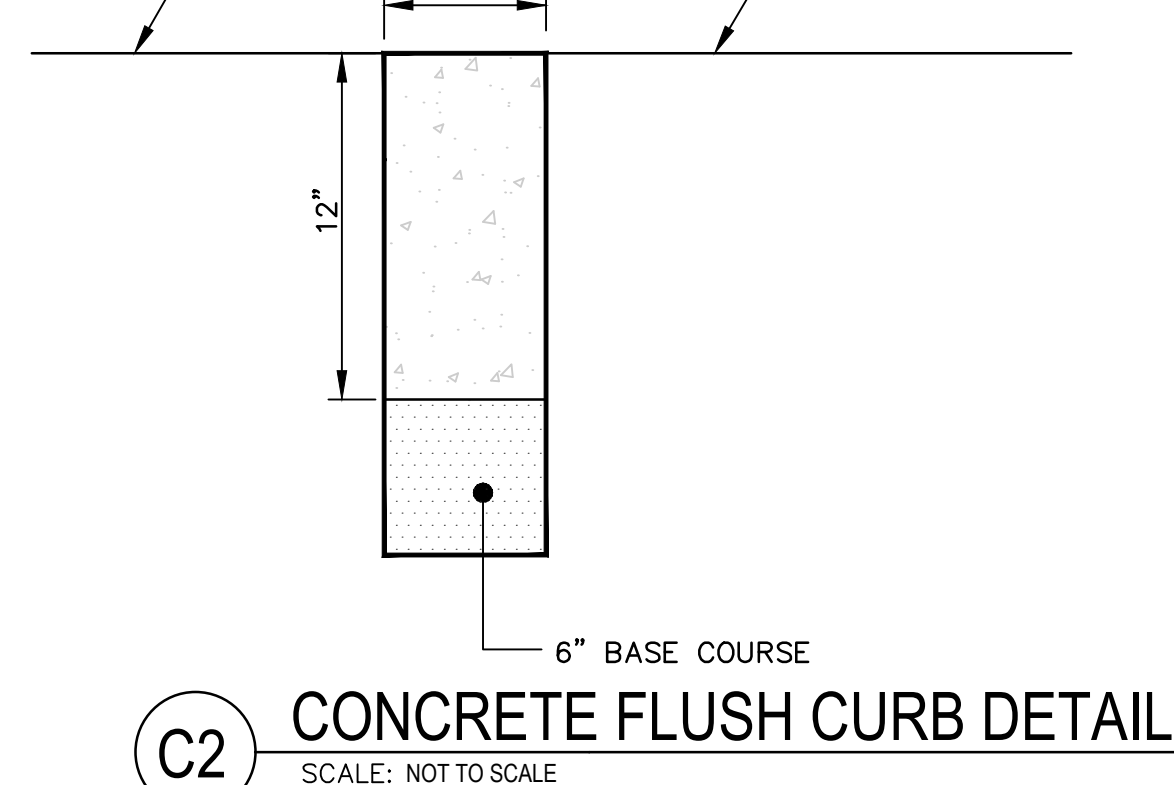
C4 CONCRETE PAVING VALLEY GUTTER AND RETURNS
SCALE: NOT TO SCALE

- GENERAL NOTES:**
- DESIGN ELEVATIONS TO BE GIVEN AT EACH END OF THE CURB RETURN (TOP OF CURB ELEV.) AND AT INTERSECTIONS OF PROJECTED FLOWLINES (FLOWLINE ELEV.).
 - ON UPSTREAM AND DOWNSTREAM ENDS OF THE INTERSECTION, VALLEY GUTTER CONSTRUCTION SHALL EXTEND TO THE END OF RETURNS.
 - THE VALLEY GUTTER TO BE REINFORCED WITH 6"x6"xNo. 6 GA. WIRE MESH.
 - INVERT OF VALLEY GUTTER TO EXTEND FROM FLOWLINE OF UPSTREAM CURB RETURN TO FLOWLINE OF DOWNSTREAM CURB RETURN.
 - CURB FLOWLINE AND TOP OF CURB ELEV. SHOWN IN THE BOX TO CORRESPOND TO QUARTERPOINTS INDICATED ON THE CURB RETURN IN THE CLOCKWISE DIRECTION.
 - DENOTES 1/2" EXPANSION JOINT.
 - FOR NEW CONSTRUCTION, VALLEY GUTTER SHALL BE CONSTRUCTED PRIOR TO ADJACENT PAVEMENT. ASPHALT CONCRETE SHALL BE INSTALLED MONOLITHICALLY TO MEET NEW VALLEY GUTTER.
 - PRIOR TO CONSTRUCTION OF NEW VALLEY GUTTER ON EXISTING ACCEPTED STREETS, PAVEMENT SHALL BE REMOVED AS SHOWN ON PLANS.

- CONSTRUCTION NOTES:**
- END OF CURB RETURN, SEE NOTE 1.
 - FOR RAMP DETAILS SEE SHEET C-505
 - INTERSECTION OF FLOWLINES, SEE NOTE 1.
 - SURFACE AND CURB TO BE MONOLITHIC.
 - DIRECTION OF FLOW.
 - FLOWLINE.
 - PROJECTED FLOWLINE OF 0.03' INVERT, SEE NOTE 2.
 - 6"x6"x No. 6 GA. WIRE MESH.
 - NO. 4 REBARS 3'-0" LONG @ 14" O.C.
 - FILLET AS PER PLAN.

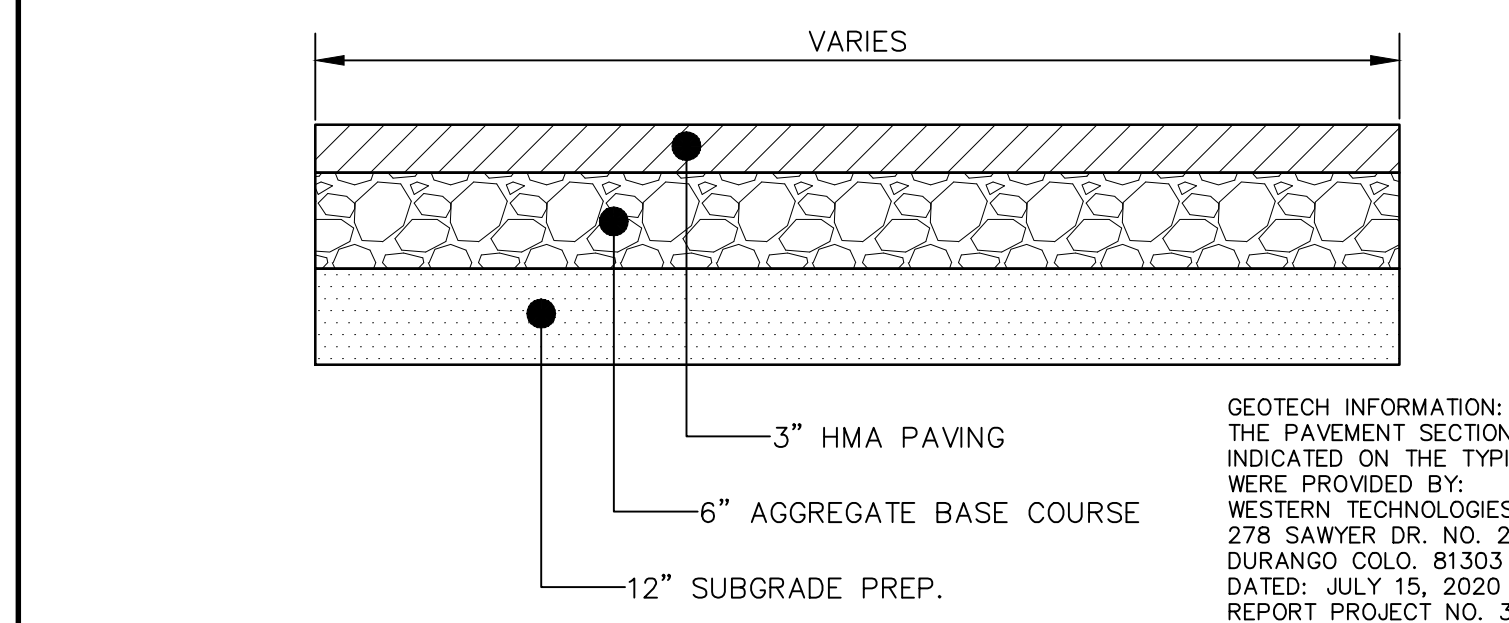


C1 TYPICAL CURB AND GUTTER SECTION
SCALE: NOT TO SCALE

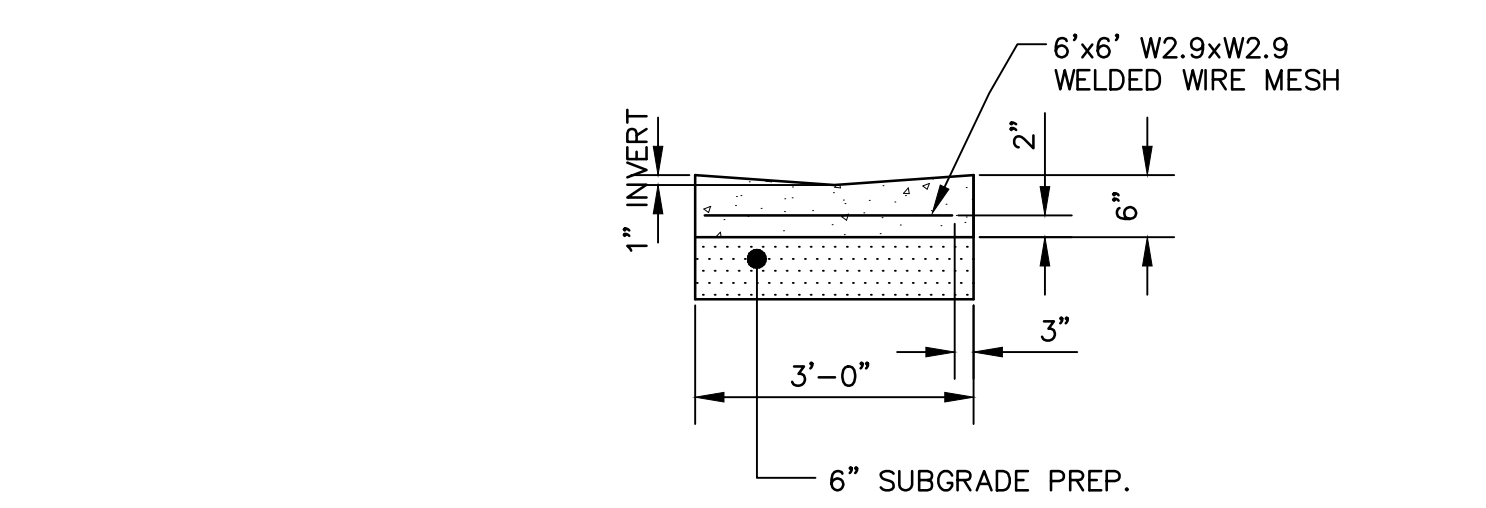


C2 CONCRETE FLUSH CURB DETAIL
SCALE: NOT TO SCALE

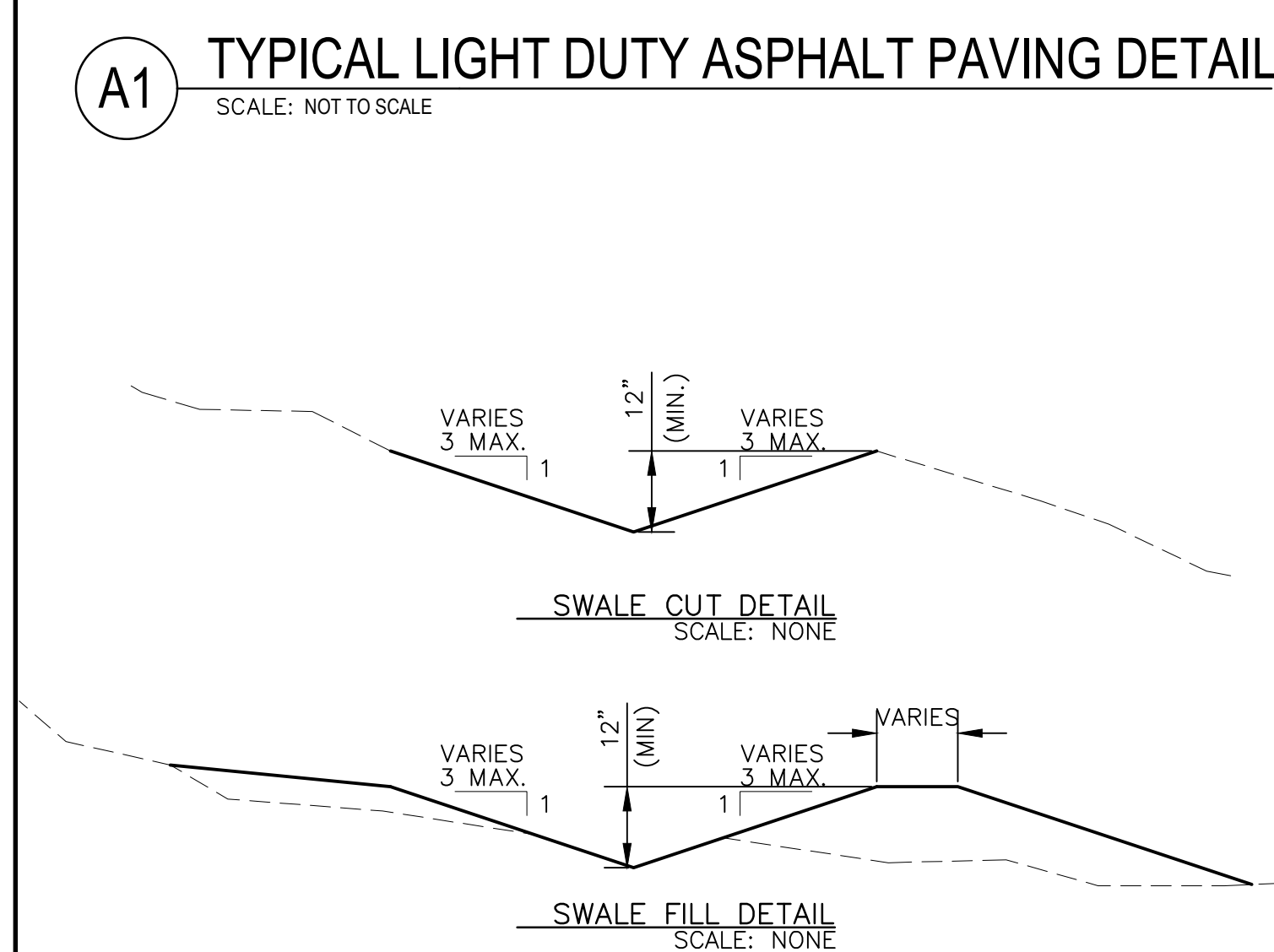
- NOTES:**
- SEE PLAN FOR SIDEWALK JOINT PATTERN.
 - CONSTRUCT 1/2" EXPANSION JOINTS WITH SEALANT @ 40'-0" O.C. MAX.
 - CONSTRUCT 1 1/2" DEEP TOOLED CONTROL JOINTS @ 5'-0" O.C. MAX.
 - MATCH TOP OF EXISTING SIDEWALK AND MAINTAIN EXISTING FLOW LINE.



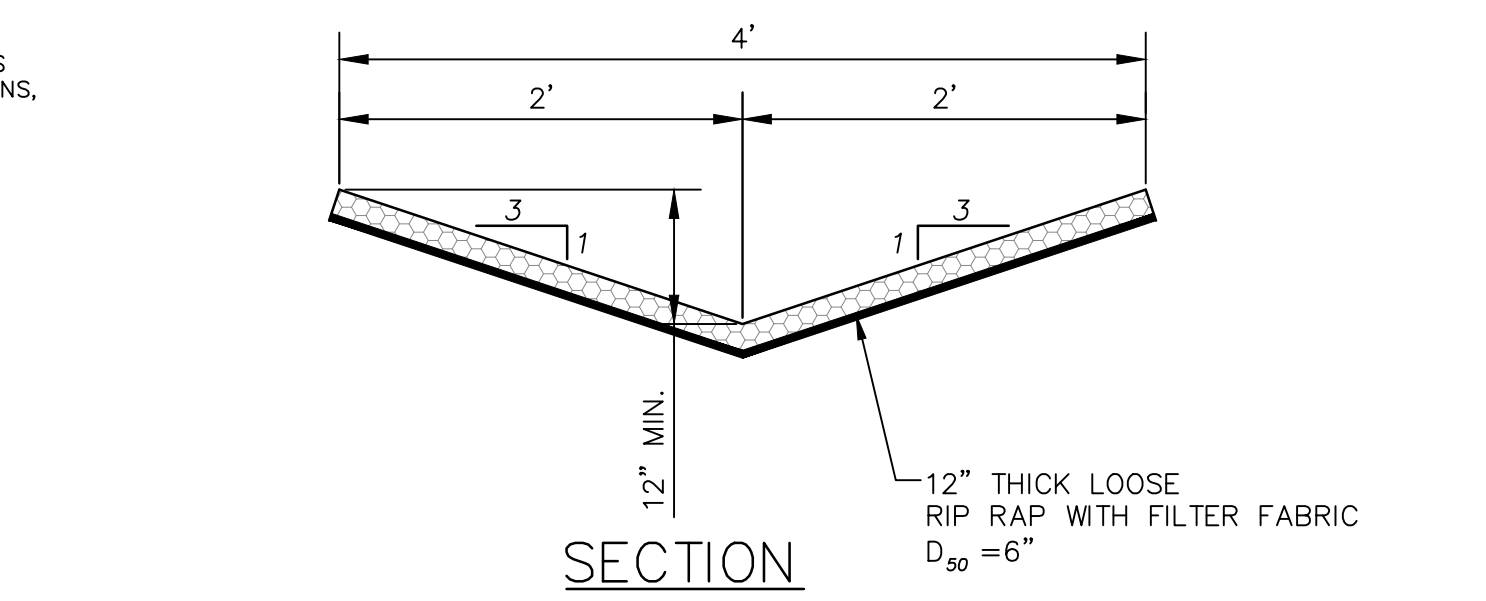
A1 TYPICAL LIGHT DUTY ASPHALT PAVING DETAIL
SCALE: NOT TO SCALE



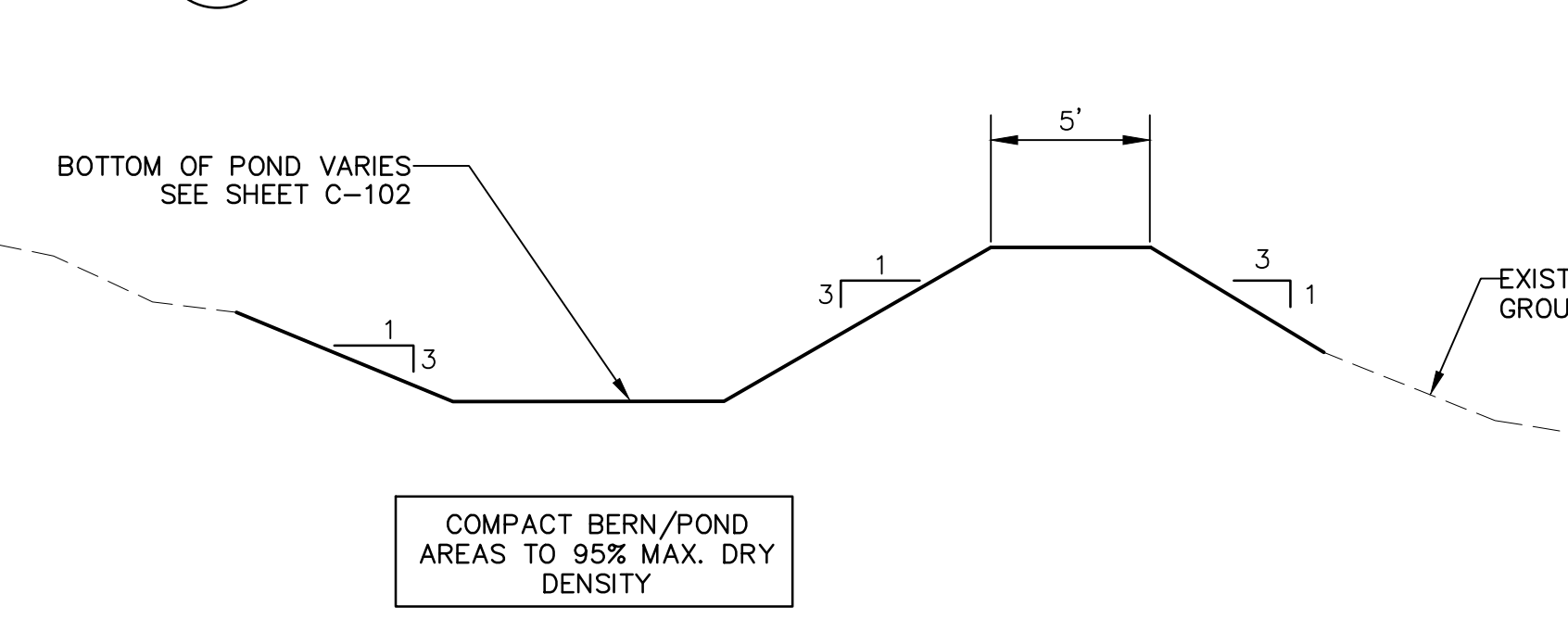
B2 6"x36" CONCRETE VALLEY GUTTER DETAIL
SCALE: NOT TO SCALE



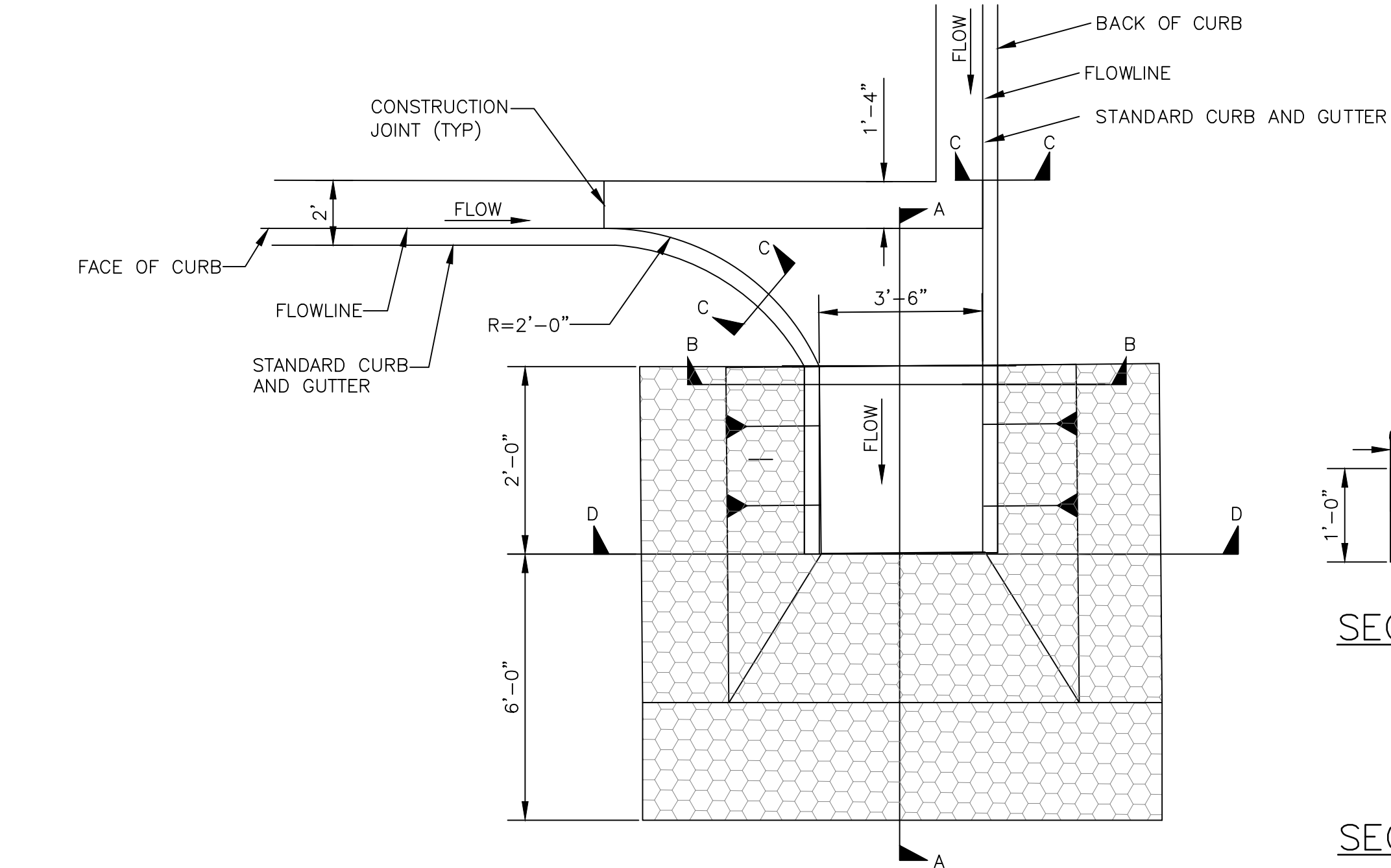
A3 EARTHEN SWALE
SCALE: NOT TO SCALE



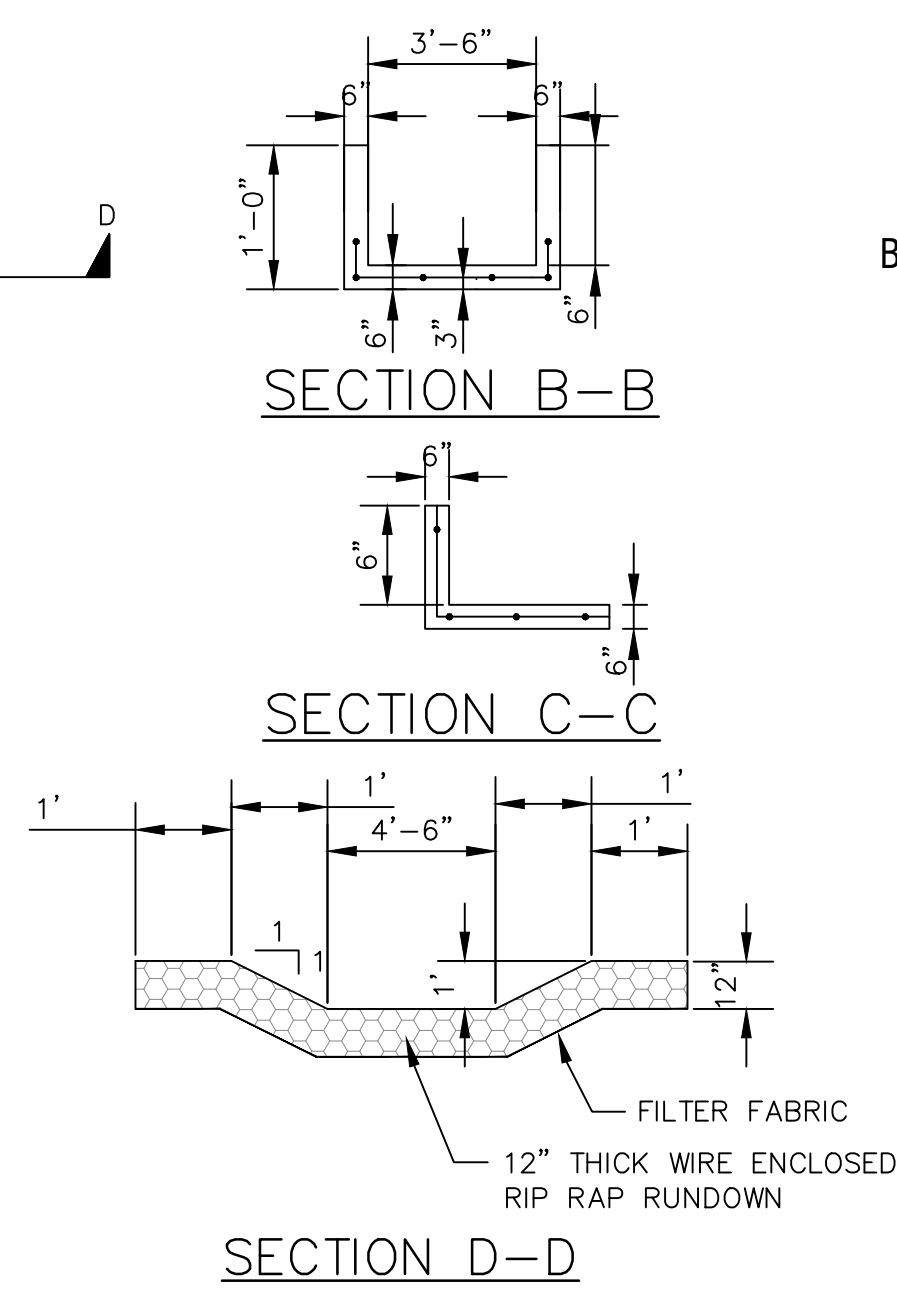
B2 RIP RAP RUNDOWN DETAIL
SCALE: NOT TO SCALE



A2 TYPICAL WATER HARVEST AREA SECTION
SCALE: NOT TO SCALE



A4 CONCRETE RUNDOWN DETAIL
SCALE: NOT TO SCALE



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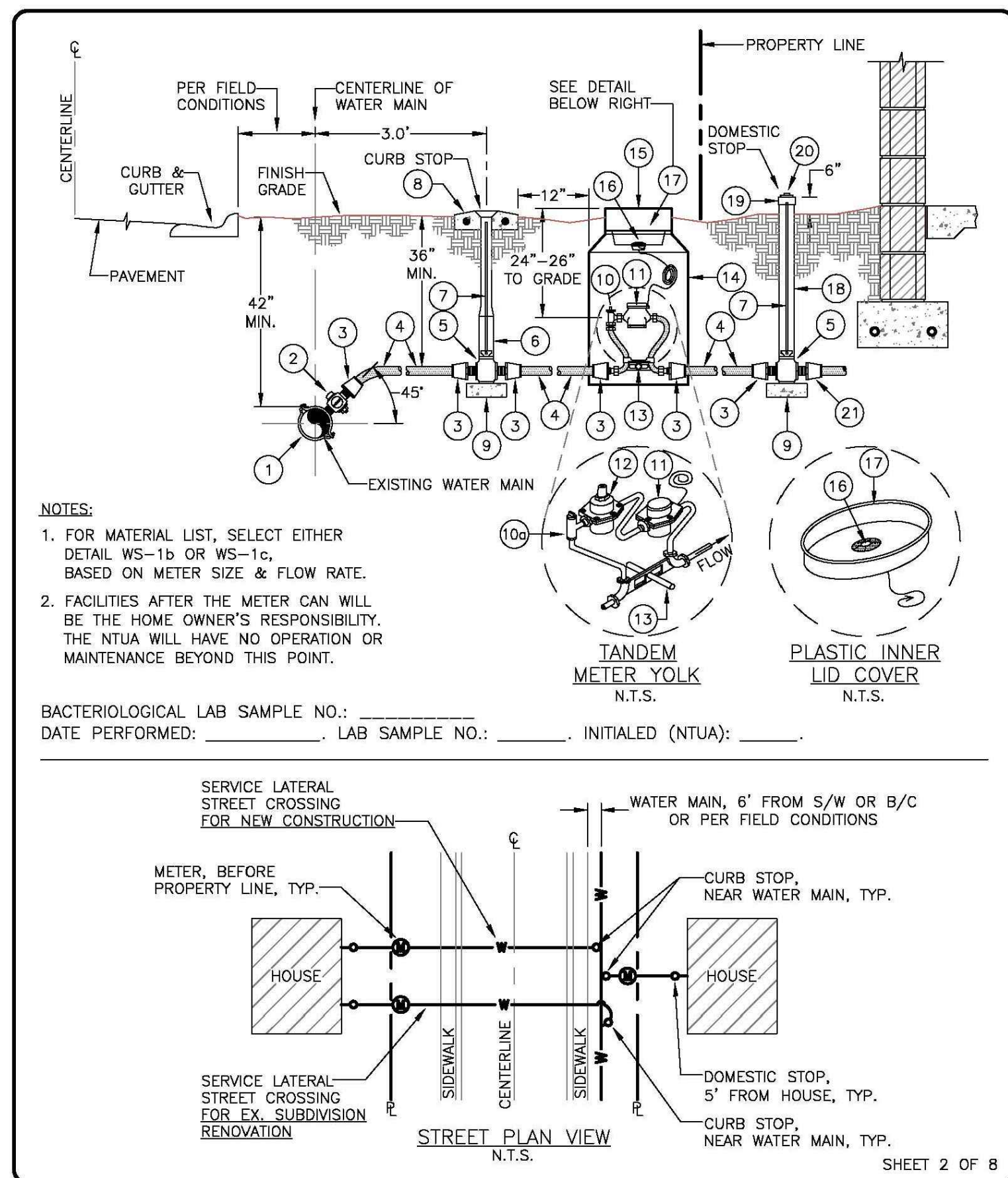
MISCELLANEOUS DETAILS
PROJECT NAME: Chinle HMO Building Navajo Housing Authority

Revisions	Date	Description
1	09/23/2021	REPLACED HEADER W/ FLUSH CURB DETAIL

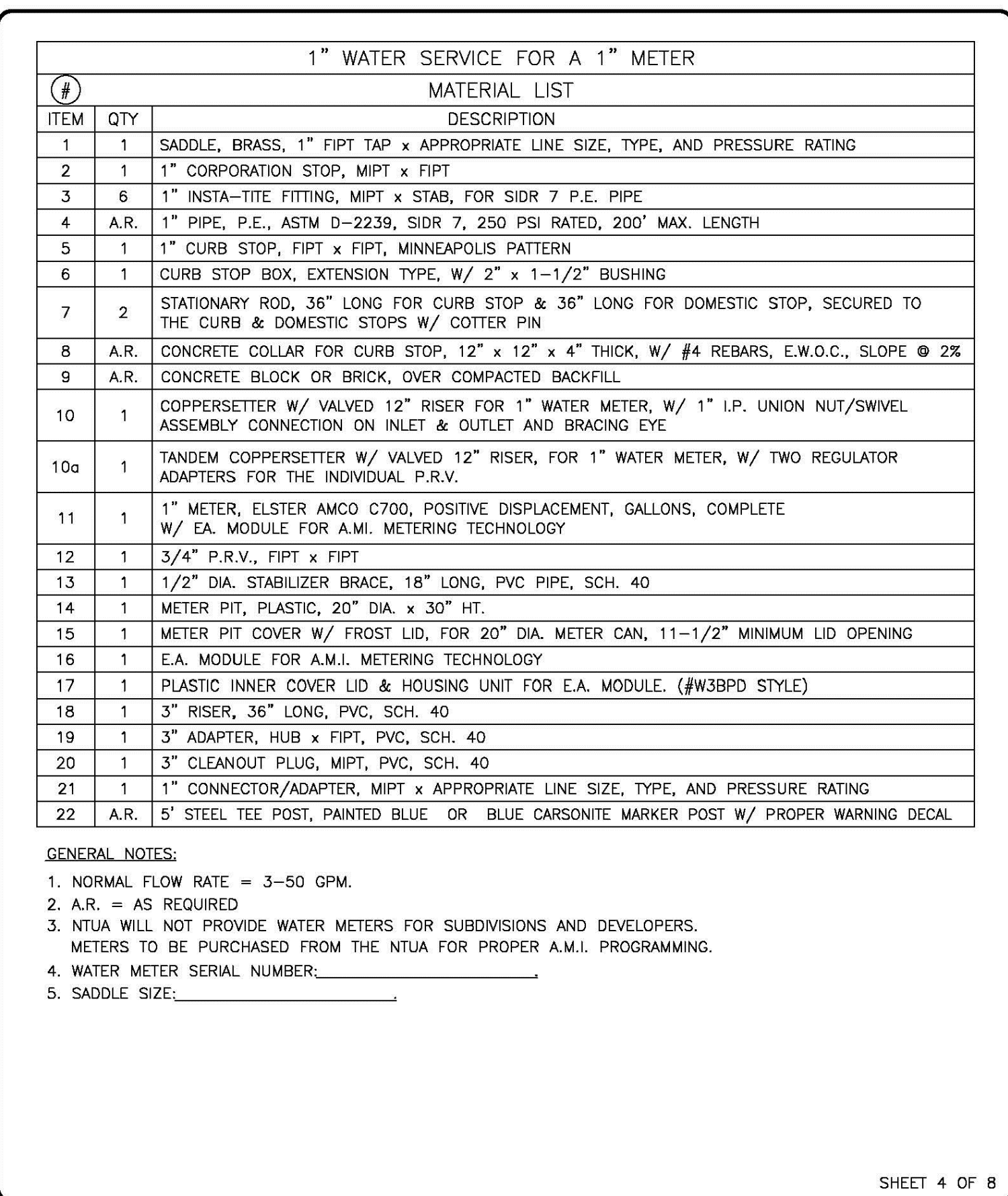
PROJECT NUMBER: NHA Chinle
FILE: NHA Chinle HMO.rvt
DRWN. BY: MEC
CHKD BY: VAM
DATE: 2/25/2021
SHEET OF
C-501

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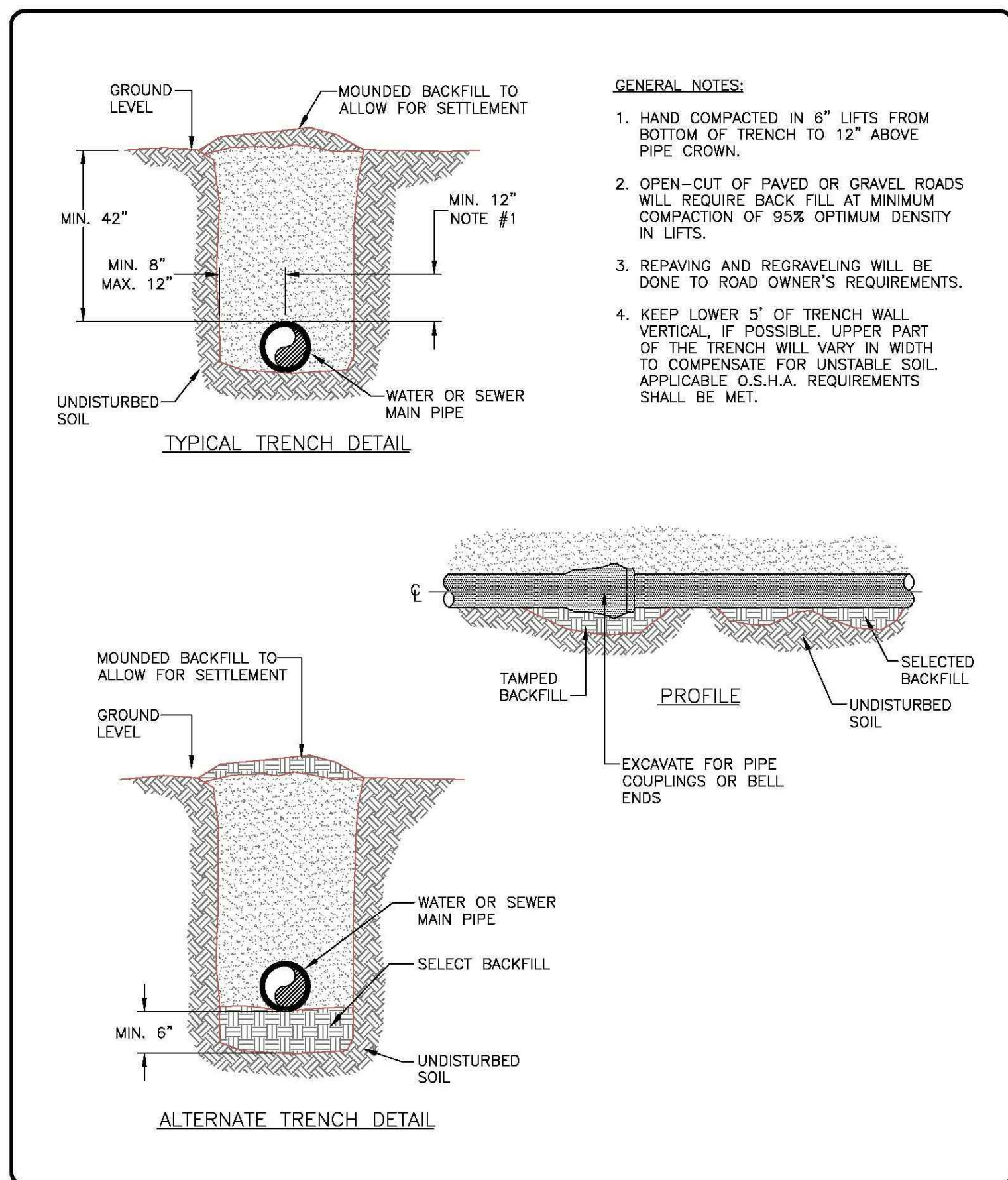
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Jaquez DWG PLOTTED: 1/14/2021 2:31:51 PM



No.	Date	Revised	By
01	04/09	Revised	L.L.
02	04/17	2017 Update	A.S.



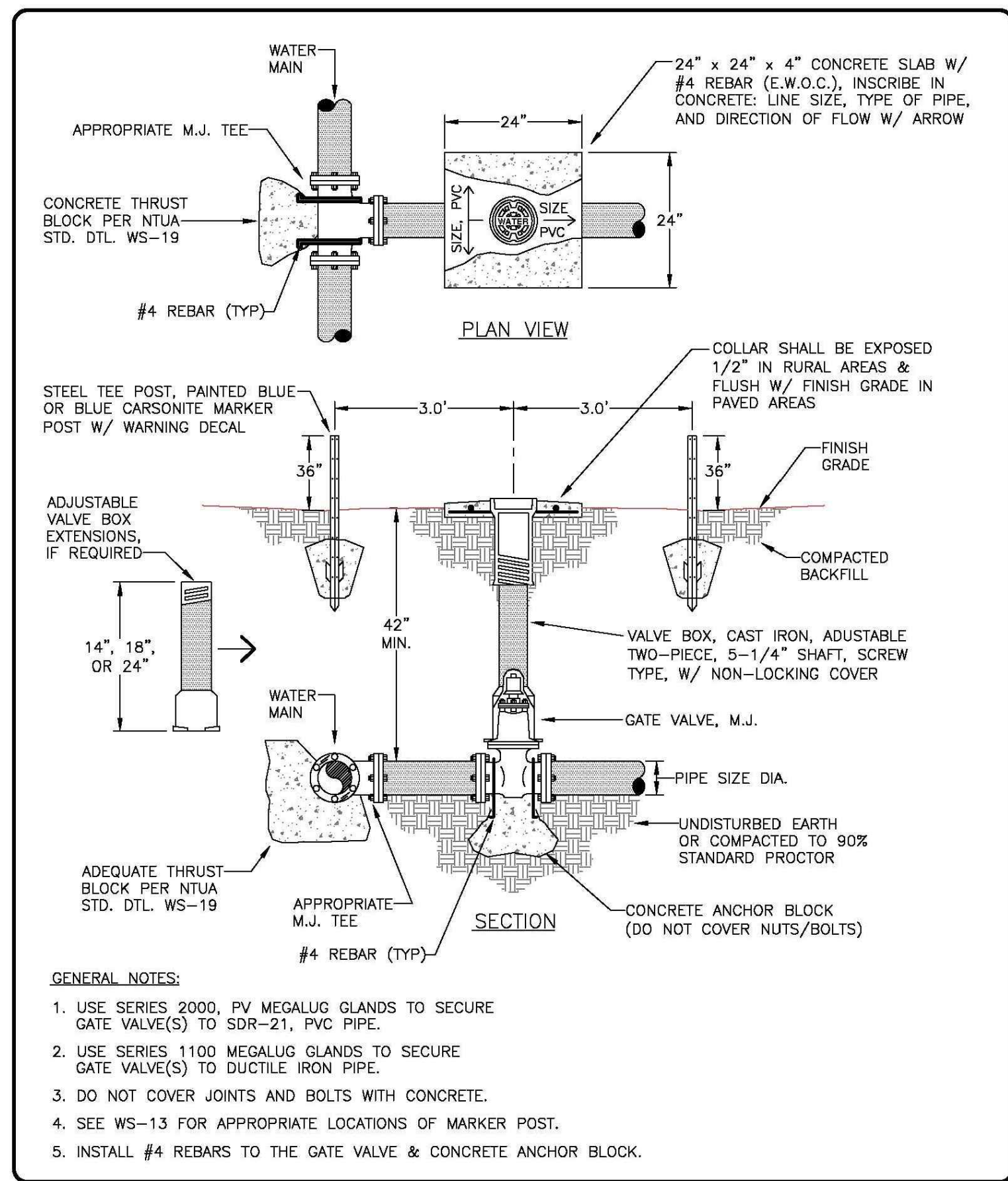
No.	Date	Revised	By
01	04/09	Revised	L.L.
02	04/17	2017 Update	A.S.



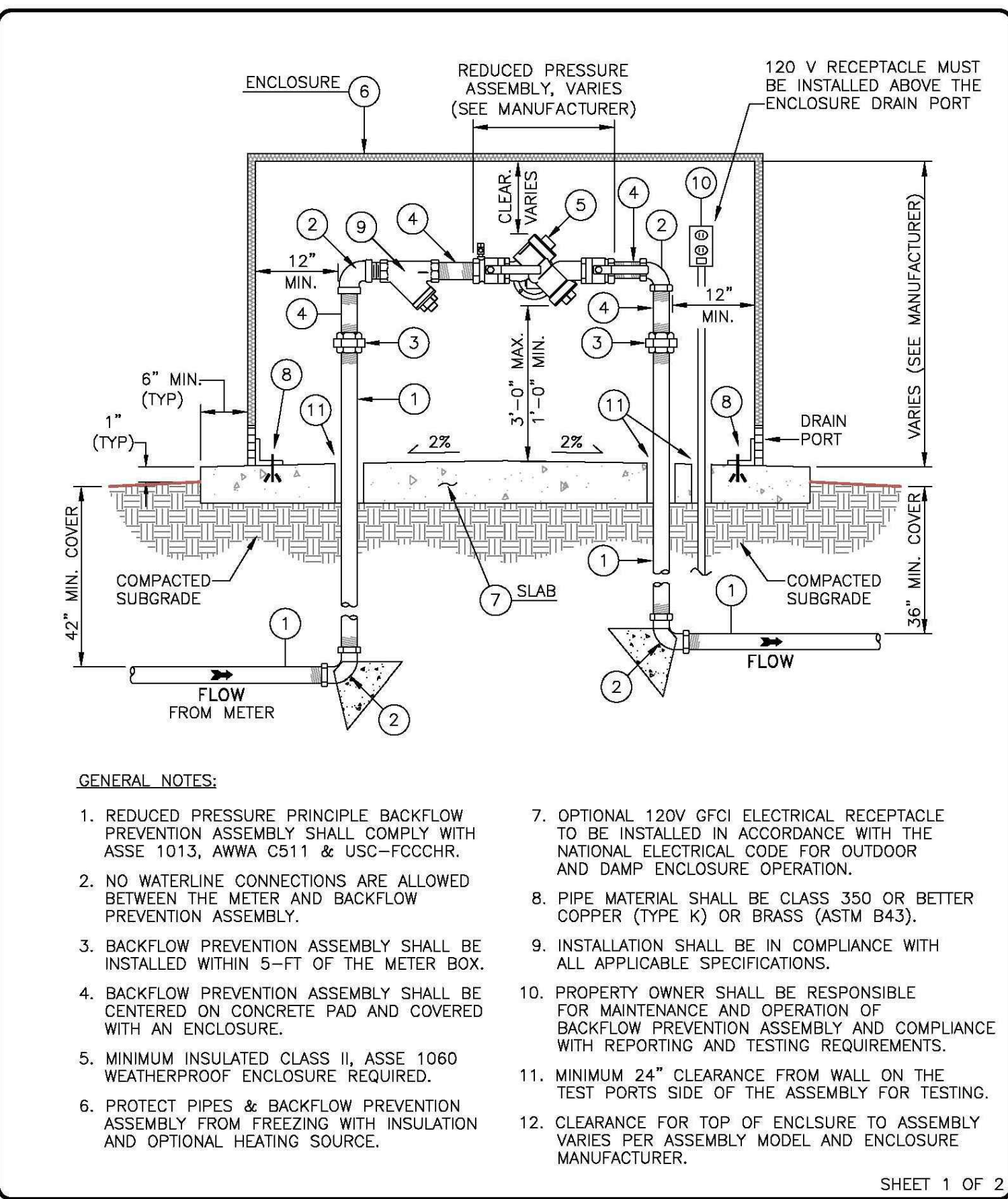
No.	Date	Revised	By
01	04/09	Revised	L.L.
02	04/17	2017 Update	A.S.



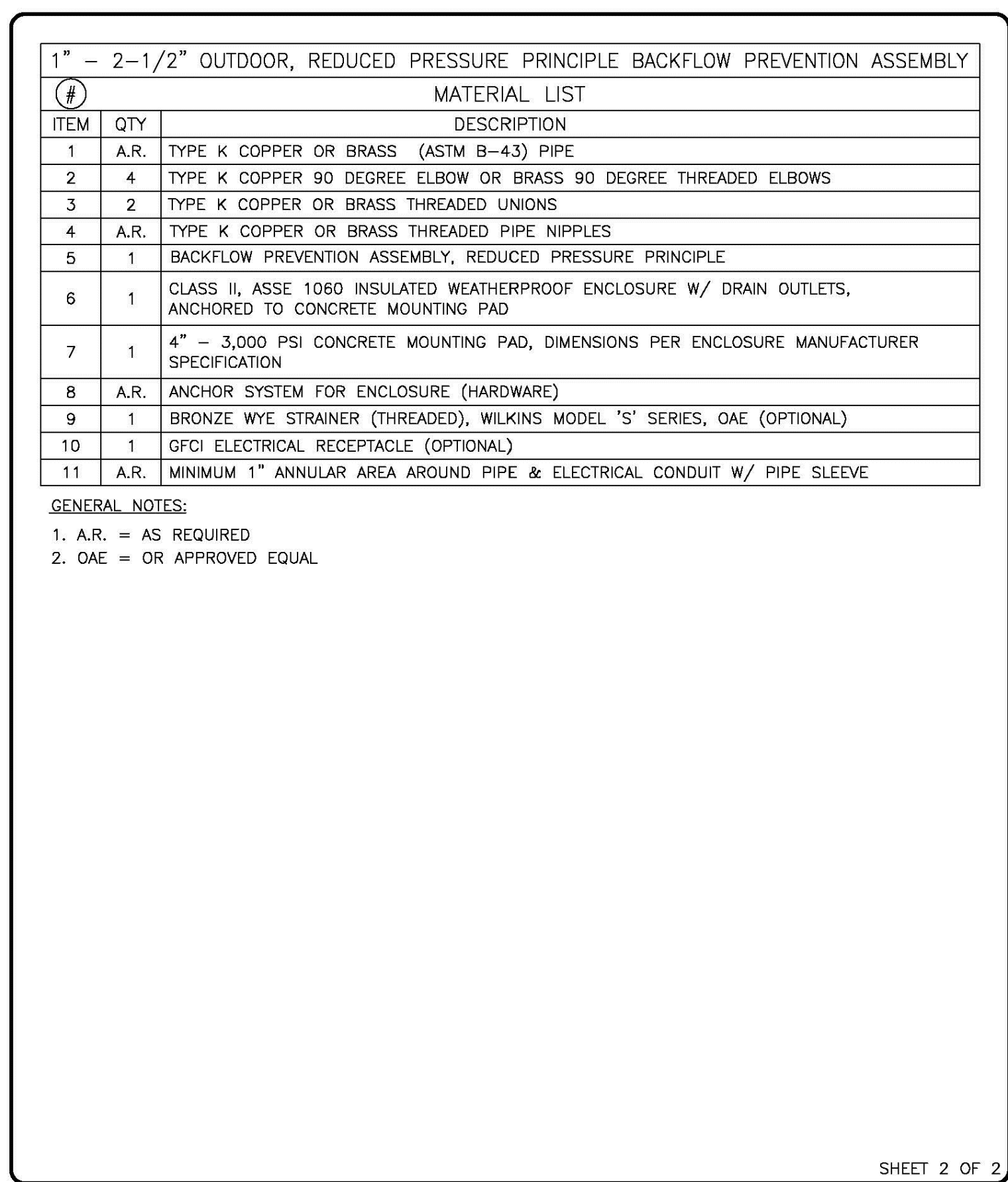
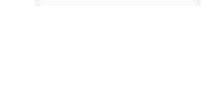
No.	Date	Revised	By
01	04/09	Revised	L.L.
02	04/17	2017 Update	A.S.



No.	Date	Revised	By
01	04/09	Revised	L.L.
02	04/17	2017 Update	A.S.



No.	Date	Revised	By
01	01/10	2015 Addition	A.S.
02	04/17	2017 Update	A.S.



No.	Date	Revised	By
01	01/10	2015 Addition	A.S.
02	04/17	2017 Update	A.S.



No.	Date	Revised	By
01	04/09	Revised	L.L.
02	04/17	2017 Update	A.S.



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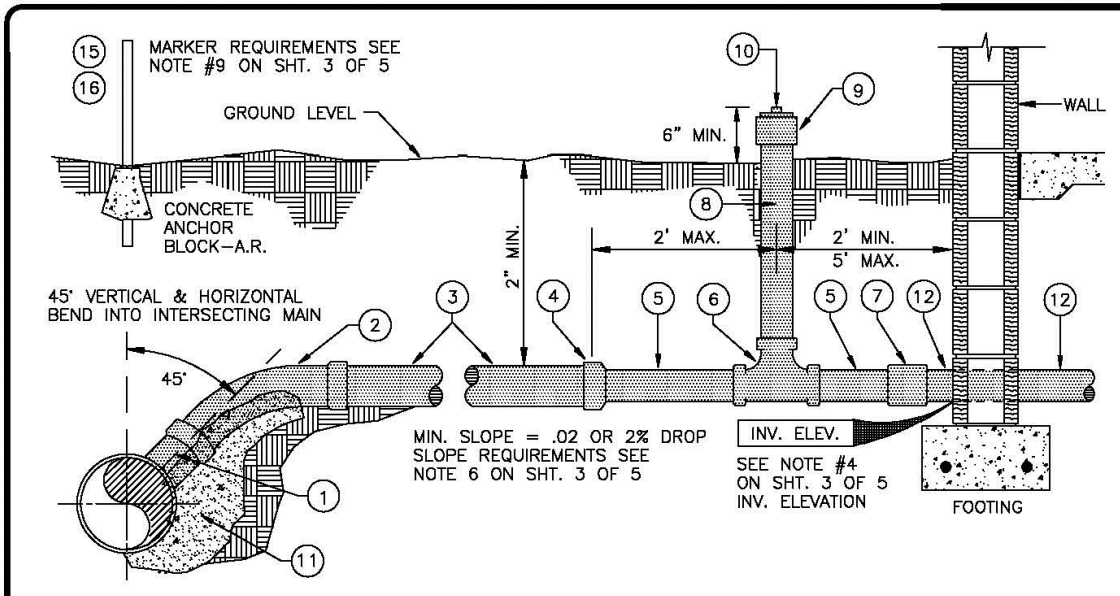


MISCELLANEOUS DETAILS
 PROJECT NAME:
Chinle HMO Building
 Navajo Housing Authority

Revisions	Description	Date	Mark
1	REPLACED DETAILS W/ NTUA DETAILS WS-2, WS-2c, WS-15 AND WS-22c	7/06/2021	1
2	ADDRESSED NHA COMMENTS	8/17/2021	2
3	ADDRESSED SDA COMMENTS	11/03/2021	3

PROJECT NUMBER: NHA Chinle
 FILE: NHA Chinle HMO.rvt
 DRWN. BY: MEC
 CHKD BY: VAM
 DATE: 2/25/2021
 SHEET OF
C-502

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AS-BUILT LOCATION OF TAP	INDEX	PAGES
PROJECT NAME	4" SEWER SERVICE LINE	1 of 6
PROJECT NO.	MATERIAL LIST	2 of 6
SHEET NO.	GENERAL NOTES	3 of 6
LINE NO.	PROPOSED INDIVIDUAL INSTALLATION	4 of 6
STATION NO.	INDIVIDUAL AS-BUILT	5 of 6
INV. ELEVATION	VICINITY LOCATION OF SERVICE	6 of 6
RELATED W.D. NO'S.		

TESTED IN ACCORDANCE WITH THE N.T.U.A. TECHNICAL SPECIFICATIONS TP-4.08 THRU 4.10, DATED MARCH 2003.

BY: _____

NAME/TITLE: _____

DATE: _____

REVISIONS: [Table with columns for Date, Description, By, Appr.]

NAVAJO TRIBAL UTILITY AUTHORITY

4" STANDARD SEWER SERVICE LINE

UTB

ITEM	QUAN	DESCRIPTION
1	1	45° WYE or SADDLE, 4" SDR-35, PVC x APPROPRIATE PIPE TYPE and O.D.
2	1	4" x 45° ELBOW, SDR-35, PVC, GASKET x GASKET
3	A.R.	4" PIPE, SDR-35, PVC, INTEGRAL BELL WITH ELASTOMERIC GASKET, (FT.)
4	1	ADAPTER, REDUCING, 4" SDR-35, PVC, ASTM D-3034 x 3" PVC-DWV, ASTM D-2665
5	A.R.	3" PIPE, PVC-DWV, ASTM D-2665, (FT.)
6	1	3" TEE, PVC-DWV, HUB x HUB, ASTM D-2665 WITH A SINGLE RISER
7	1	3" COUPLING, PVC-DWV, ASTM D-2665
8	A.R.	3" RISER, PVC-DWV, ASTM D-2665, (FT.)
9	1	3" ADAPTER, HUB x FIPT, PVC-DWV, ASTM D-2665
10	1	3" PLUG, CLEAN OUT, MIPT, PVC-DWV, ASTM D-2665
11	1	CONCRETE, PRE-MIX, (FIELD DETERMINE AS REQUIRED FOR PIPE SUPPORT)
12	1	HOUSE STUB-OUT, APPROPRIATE PIPE TYPE and O.D.
13	1	CEMENT, SOLVENT, PVC (QUART CAN)
14	1	CLEANER, PVC PIPE, (QUART CAN)
15	A.R.	GREEN CARSONITE MARKER POST
16	A.R.	"NTUA SEWERLINE WARNING" DECAL (for item 15) * *

NOTES:
 1. A.R. = AS REQUIRED
 2. ITEM 12 IS USUALLY DONE BY THE HOME OWNER.
 3. ITEM 7 MAY BE MODIFIED AS REQUIRED.
 4. DECAL TO BE AFFIXED TO ITEM 15**.

REVISIONS: [Table with columns for Date, Description, By, Appr.]

NAVAJO TRIBAL UTILITY AUTHORITY

MATERIAL LIST 4" STANDARD SEWER SERVICE

UTB

GENERAL NOTES:

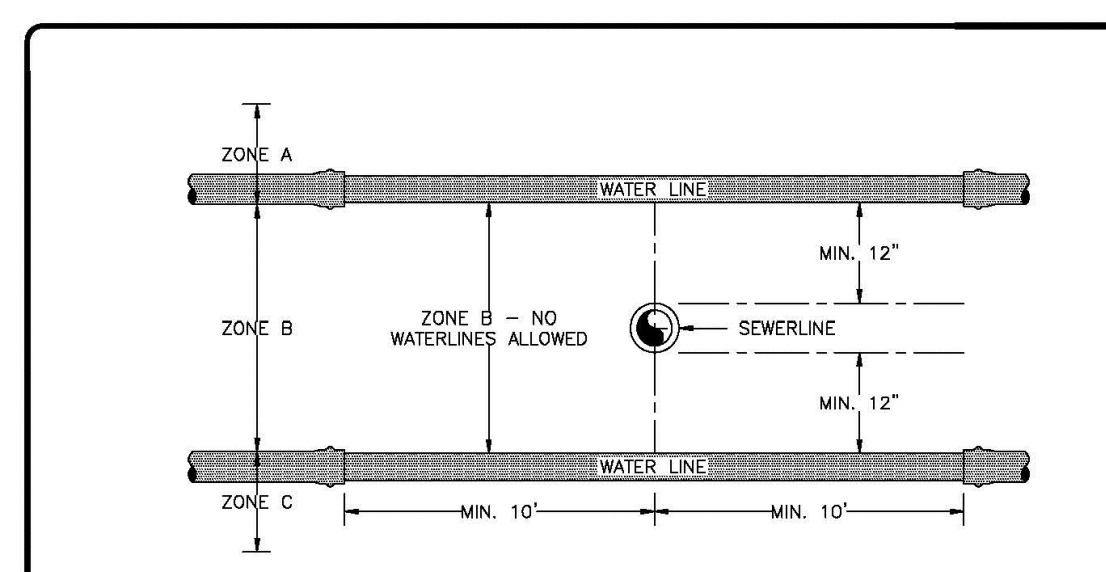
- PROVIDE 10 FT. MINIMUM HORIZONTAL SEPARATION IN SEPARATE TRENCHES BETWEEN THE WATER AND SEWER SERVICES. PROVIDE 5 FT. MIN. HORIZONTAL SEPARATION BETWEEN THE SEWER SERVICE AND OTHER UTILITIES. IF SEWER SERVICE CROSSES OTHER SERVICES, SEE N.T.U.A. CROSSING POLICY OR CONTACT N.T.U.A. HEADQUARTERS ENGINEERING.
- SEWER CLEANOUTS ARE REQUIRED ON ALL BENDS IN EXCESS OF 45° AS PER PLUMBING CODE ADOPTED BY THE NAVAJO NATION. MODIFY MATERIAL LIST ACCORDINGLY AFTER CONSULTING WITH N.T.U.A. HEADQUARTERS ENGINEERING.
- ADDITIONAL SEWER CLEANOUTS ARE REQUIRED ON SEWER SERVICES LONGER THAN 50 FT. AS PER UNIFORM PLUMBING CODE ADOPTED BY THE NAVAJO NATION. MODIFY MATERIAL LIST ACCORDINGLY AFTER CONSULTING WITH N.T.U.A. HEADQUARTERS ENGINEERING. EACH ADDITIONAL CLEANOUT IS AT THE CUSTOMER'S EXPENSE. INSTALL AT LEAST ONE CLEANOUT AS REQUIRED BY NOTE 2. IF CUSTOMER REQUEST FEWER AND REALIZES THIS VIOLATES NAVAJO TRIBAL CODE, THEN INSTALL PER THE CUSTOMER'S REQUEST AND SO NOTE ON THE INDIVIDUAL AS-BUILT. N.T.U.A. RECOMMENDS THAT CLEANOUTS BE SPACED NO MORE THAN 100'.
- PROVIDE PROPOSED ELEVATION AT WALL. PROVIDE 6 IN. DIAMETER SLEEVE IF PIPING PENETRATES WALL OR 4 IN. DEPTH OF SAND BETWEEN FOOTING AND TOP OF PIPING IS BELOW THE FOOTING. ORDER ASTM D-1785 SCH. 40 PIPE WITH LENGTH AS NEEDED FOR THE SLEEVE. CONTACT N.T.U.A. HEADQUARTERS ENGINEERING ON PIPING SMALLER THAN 2 IN. IN SIZE.
- STATE THE EXISTING PIPE TYPE AND O.D. (e.g. ASTM D-3034, SDR 35, PVC, 8. 40"). SADDLE IS TO HAVE A GASKET SEAL OR O-RING AND NON-CORRODIBLE STRAP SECURING SYSTEM.
- MINIMUM SLOPE OF 1/4 INCH PER FOOT (2%) OR CONTACT N.T.U.A. HEADQUARTERS ENGINEERING.
- BACKFILL IS TO BE HAND TAMPED (NO-MECHANICAL) AND COMPACTED IN 6 INCH LAYERS FOR AT LEAST 12 IN. ABOVE PVC PIPE. INSTALL PER ASTM D-2321 AND UNIFORM PLUMBING CODE ADOPTED BY THE NAVAJO NATION.
- PROVIDE THE AS-BUILT AND SWING TIES FOR THE TAP POINT.
- THE MATERIAL LIST SHALL BE MODIFIED IF A FIELD MARKER OF THE TAP POINT IS TO BE INSTALLED. UNDER THE AS-BUILT IE INFORMATION, PROVIDE THE SURFACE DESCRIPTION OF THE TAP POINT (e.g. OPEN FIELD, PAVED ROAD, etc)
- ITEM 12 IS USUALLY DONE BY THE HOME OWNER. ITEM 7 MUST BE COMPATIBLE WITH ITEM 12. ITEM 7 AS LISTED IS FOR A CONNECTION BETWEEN TWO LENGTHS OF 3 IN. PVC-DWV ASTM D-2665. IN THE MATERIALS LIST, ITEM 12 NEEDS TO BE COMPLETED AND ITEM 7 MODIFIED AS REQUIRED.
- ORDER CONCRETE AS NEEDED. THE CONCRETE MAY BE ELIMINATED IF N.T.U.A. DISTRICT WATER FOREMAN AND ENGINEER DETERMINE FIELD CONDITIONS DO NOT REQUIRE THIS FOR ADEQUATE COMPACTION AND 4 IN. PIPE STRUCTURAL SUPPORT. MARK THE AS-BUILT DRAWING TO SHOW WHEN THE CONCRETE IS NOT USED.
- FOR MULTIPLE BENDS, A CLEANOUT IS REQUIRED UPSTREAM FROM THE FIRST BEND THAT CAUSED THE CUMULATIVE ANGLE TO EXCEED 45°.

REVISIONS: [Table with columns for Date, Description, By, Appr.]

NAVAJO TRIBAL UTILITY AUTHORITY

GENERAL NOTES SEWER SERVICE

UTB



ZONE A - THE BOTTOM OF THE WATER LINE SHALL BE 12 IN. OR MORE ABOVE THE TOP OF THE SEWER LINE - NO SPECIAL PRECAUTIONS REQUIRED.

ZONE B - 12 FT. ABOVE AND 12 FT. BELOW SEWER LINE - NO WATER LINES ALLOWED.

ZONE C - THE TOP OF THE WATER LINE SHALL BE 12 IN. OR MORE BELOW THE BOTTOM OF THE SEWER LINE. IF THE SEWER LINE IS A NEWLY CONSTRUCTED SEWER LINE, AN 18 IN. LENGTH OF DUCTILE IRON SEWER PIPE W/ GASKETED JOINTS SHALL BE CENTERED UNDER THE WATER LINE WITH NO JOINTS CLOSER THAN 8 FT. TO THE WATER LINE IN EACH DIRECTION. IF THE WATER LINE IS IN ZONE C AND THE WATER MAIN IS A NEWLY CONSTRUCTED WATER LINE, A 20 FT. LENGTH OF PVC WATER PIPE SHALL BE CENTERED UNDER THE SEWER LINE.

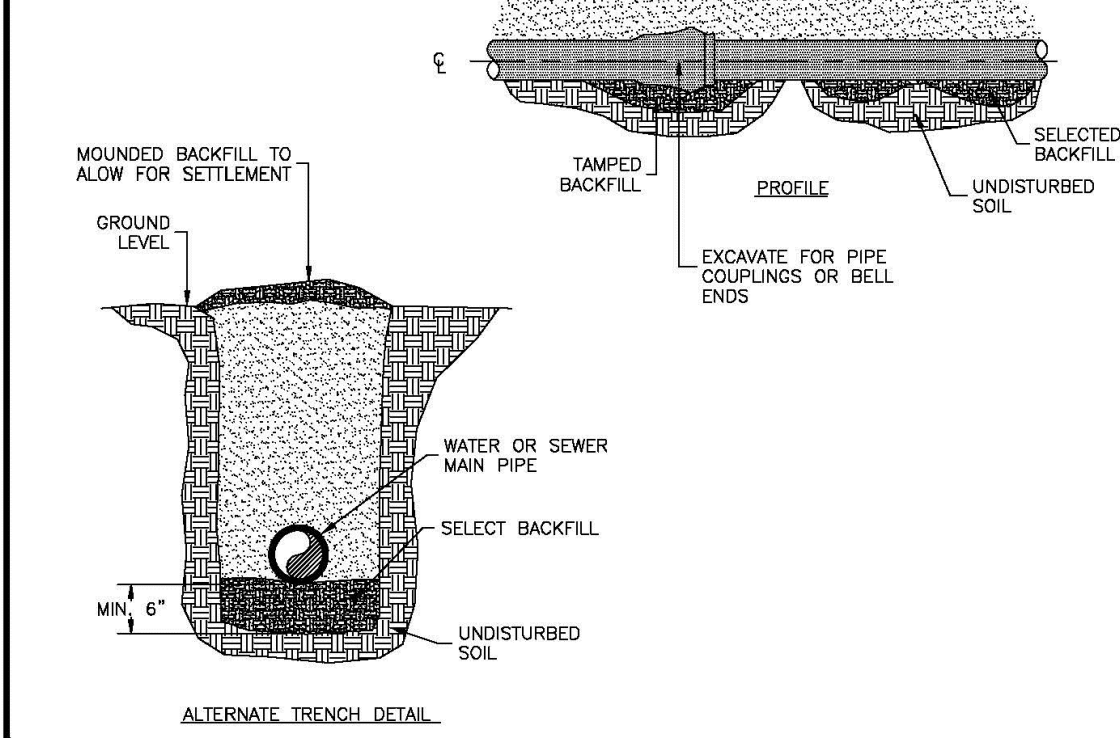
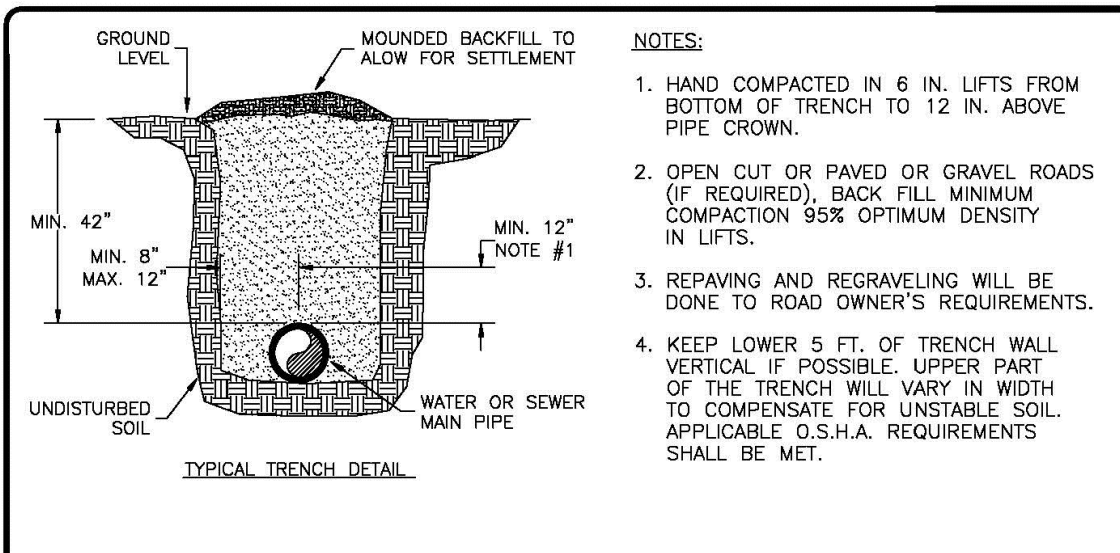
NOTES:
 1. WHEN POSSIBLE, WATER LINES SHALL BE INSTALLED ABOVE SEWER LINES AND CROSSINGS SHALL BE AT 90° ANGLES(S).
 2. WHEN WATER AND SEWER LINES ARE INSTALLED PARALLEL TO EACH OTHER, THE MINIMUM HORIZONTAL SEPARATION SHALL BE 10 FT.

REVISIONS: [Table with columns for Date, Description, By, Appr.]

NAVAJO TRIBAL UTILITY AUTHORITY

WATER AND SEWER CROSSING SEPARATION

UTB

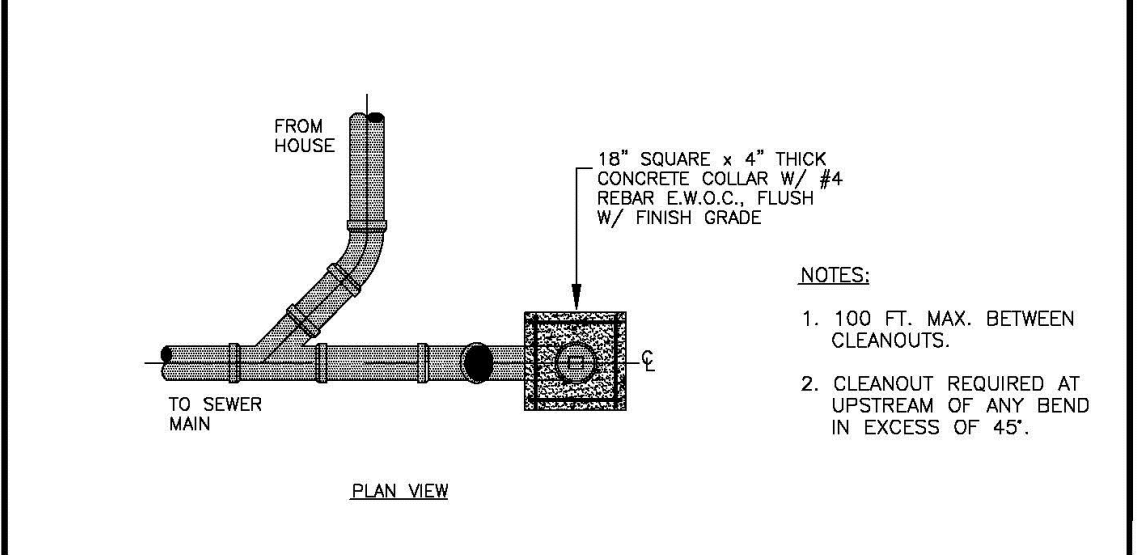
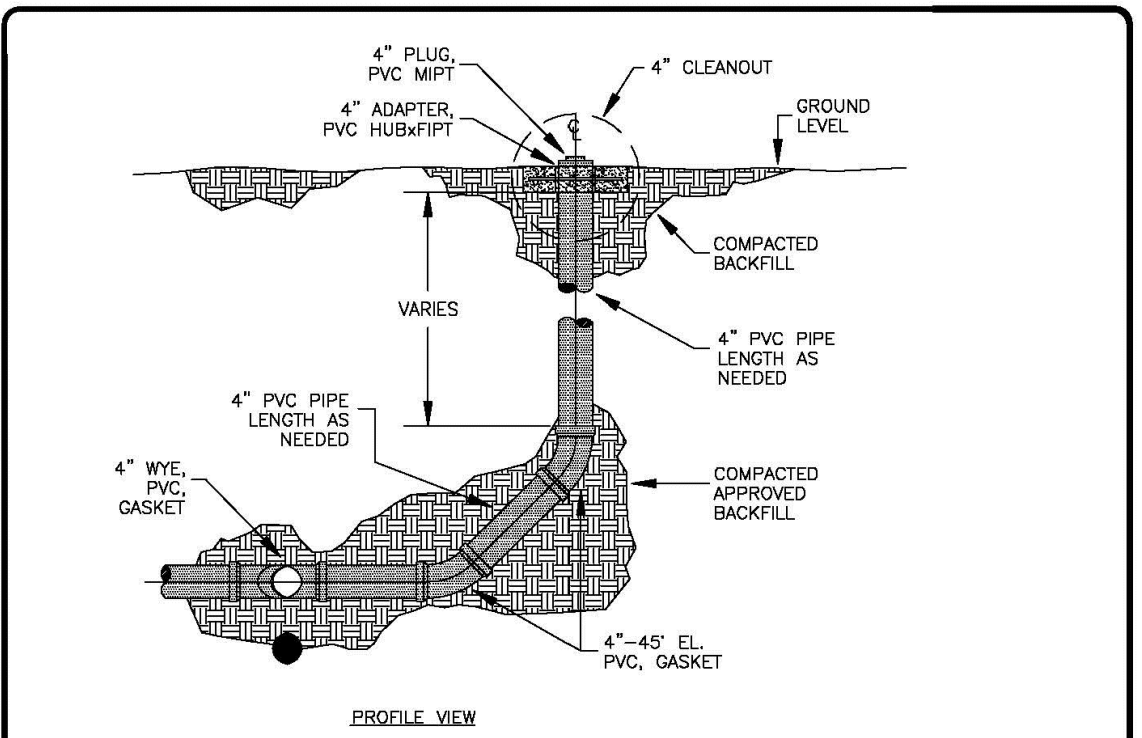


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NAVAJO TRIBAL UTILITY AUTHORITY

STANDARD TRENCH DETAIL

UTB

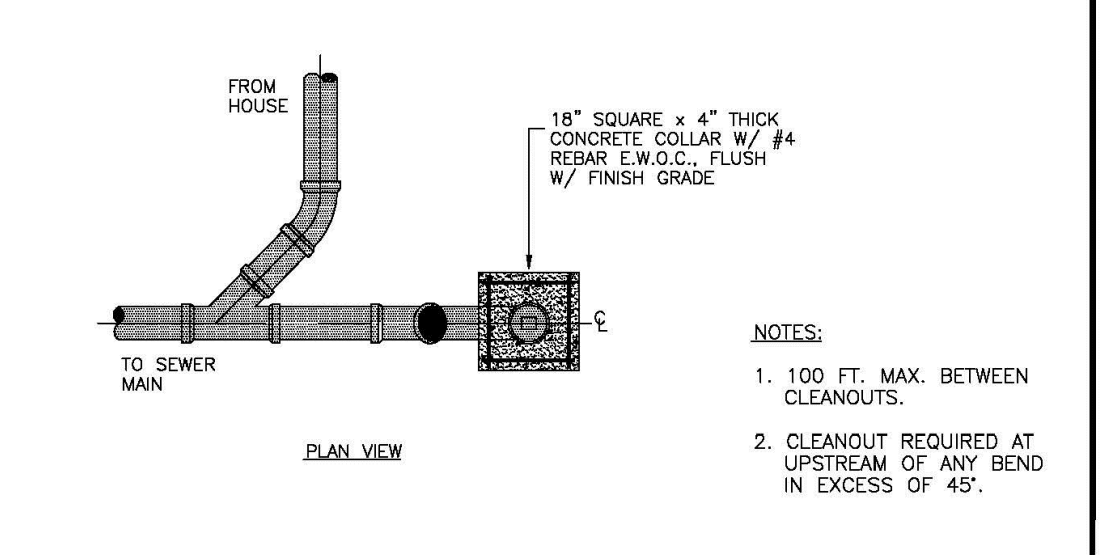
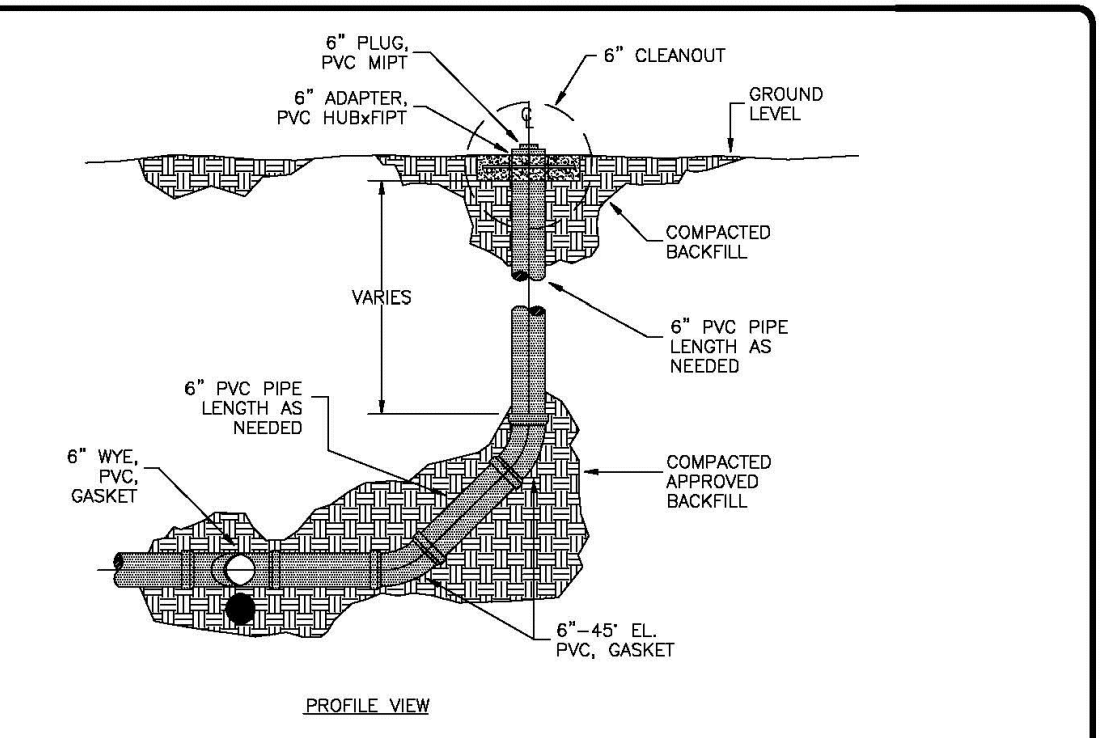


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NAVAJO TRIBAL UTILITY AUTHORITY

4" SEWER CLEANOUT DETAIL

UTB



REVISIONS: [Table with columns for Date, Description, By, Appr.]

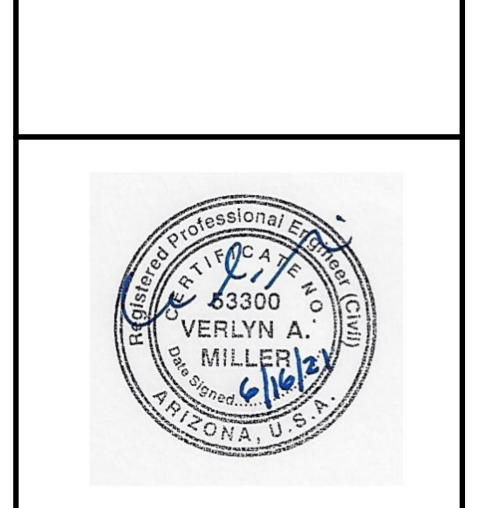
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6" SEWER CLEANOUT DETAIL

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SHEET TITLE: **MISCELLANEOUS DETAILS**

PROJECT NAME: **Chinle HMO Building Navajo Housing Authority**

Revisions	Date	Description
1	5/17/2021	ADDRESSED NHA COMMENTS
2	11/02/2021	ADDRESSED NHA COMMENTS

PROJECT NUMBER: **NHA Chinle**

FILE: **NHA Chinle HMO.rvt**

DRWN. BY: **MEC**

CHKD BY: **VAM**

DATE: **2/25/2021**

SHEET OF **C-503**

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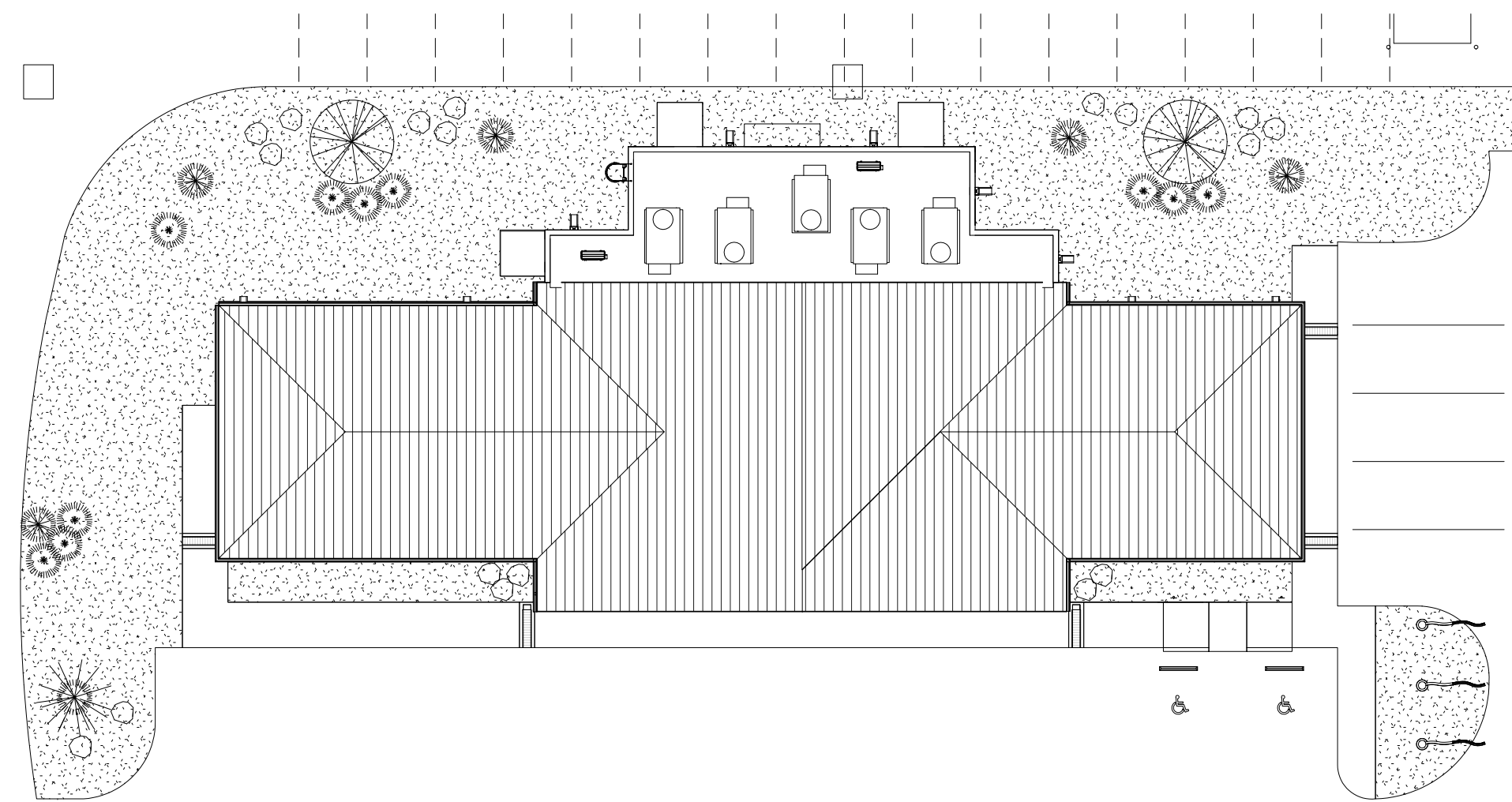
D

C

B

A

1 Landscape Plan
1" = 20'-0"



GENERAL NOTES

1. PRIOR TO BEGINNING WORK ON THE PROJECT, THE LANDSCAPE CONTRACTOR SHALL REVIEW THE PROJECT IN THE FIELD WITH THE OWNER'S REPRESENTATIVE.
2. IF DISCREPANCIES OCCUR BETWEEN THE DRAWINGS AND THE SITE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR CLARIFICATION PRIOR TO PROCEEDING ON THAT PORTION OF WORK.
3. ALL PLANTING AREA ARE TO HAVE WEEDS AND COMPETITIVE VEGETATION REMOVED PRIOR TO PREPARATION FOR PLANTING.
4. ALL EXISTING LANDSCAPE MATERIALS SHALL BE PROTECTED DURING CONSTRUCTION. DAMAGED MATERIALS SHALL BE REPLACE IN KIND AT THE CONTRACTOR'S EXPENSE.
5. PLANT QUANTITIES ARE PROVIDED FOR CONTRACTOR'S CONVENIENCE ONLY. PLANS SHALL TAKE PRECEDENCE.
6. THE OWNER'S REPRESENTATIVE SHALL APPROVE ALL PLANT MATERIAL PRIOR TO PLANTING. IN ADDITION, THE OWNER REPRESENTATIVE RESERVES THE RIGHT TO REFUSE ANY PLANT MATERIAL DEEMED UNACCEPTABLE. THE OWNER'S REPRESENTATIVE IS TO APPROVE ANY AND ALL SUBSTITUTIONS.
7. IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS.

PLANT LEGEND

SYMBOL	SCIENTIFIC NAME COMMON NAME (WATER USE)	SIZE	INSTALLED SIZE MATURE SIZE
	CHILOPSIS LINEARIS DESERT WILLOW (LOW)	5-GAL.	4' HT. 10'-25' HT. X 10' SPR.
	FOUQUIERIA SPLENDENS OCOTILLO (LOW)	5-GAL.	6' HT. 8' - 25' HT. X 5' - 10' SPR.
	YUCCA BACCATA BANANA YUCCA (LOW)	1.6-GAL.	1.5' HT. 4'-6' HT.X 4' SPR.
	GAILLARDIA X ARIZONA SUN ARIZONA SUN BLANKET FLOWER (LOW)	2.5-QRT.	1' HT 1' HT.X 2'SPR.
	BOULDERS		
	GRAVEL, BROWN RUSTIC	1-INCH	

LANDSCAPE NOTES

1. DEVELOP LANDSCAPE AT BASE OF DOWNSPOUTS.
2. GRAVEL OVER LANDSCAPE FILTER FABRIC SURROUNDING BUILDINGS.
3. METAL LANDSCAPE EDGING AT ALL TREES.
4. GRAVEL SWALES AT SPLASHBLOCK TO CARRY WATER A MINIMUM OF 10' AWAY FROM BUILDING.
5. NATIVE, SEMI-NATIVE AND DROUGHT TOLERANT PLANTS (TREES, PLANTS) TO BE HAND WATERED FREQUENTLY FOR FIRST YEAR AND SPARINGLY ONCE ESTABLISHED.



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ARCHITECT'S STAMP

SHEET TITLE:

LANDSCAPE PLAN

PROJECT NAME:

Chinle HMO Building
Navajo Housing Authority

Revisions	Mark	Date	Description

PROJECT NUMBER: NHA Chinle

FILE: NHA Chinle HMO.rvt

DRWN. BY: Author

CHKD BY: Checker

DATE: 1/11/2021

SHEET OF

L-101

STRUCTURAL PLANS CHINLE HMO BUILDING

NAVAJO HOUSING AUTHORITY, NM



ABBREVIATIONS

/	Per	FAB	Fabricate	OD	Outside Diameter
@	At	FF	Finished Floor	O.F.	Outside Face
AB	Anchor Bolt	FLG	Flange	OPNG	Opening
ADDNL	Additional	FLR	Floor	OPP	Opposite
ADJ	Adjacent	FDTN	Foundation	PAF	Powder Actuated Fastener
AFF	Above Finish Floor	FO	Face Of	PC	Precast
ALT	Alternative	FP	Full Penetration	PEN	Penetration
APA	American Plywood Association	FRMG	Framing	PERP	Perpendicular
APPROX	Approximate	FS	Far Side	PL	Plate
ARCH	Architect or Architectural	FT	Foot or Feet	PLF	Pounds Per Lineal Foot
		FTG	Footing	PREFAB	Prefabricated
		FV	Field Verify	PRELIM	Preliminary
B/ , B.O.	Bottom of	GA	Gage or Gauge	PS	Prestressed
BG	Backgouge	GALV	Galvanized	PSF	Pounds Per Square Foot
BLDG	Building	GL	Glu-lam	PSI	Pounds Per Square Inch
BLKG	Blocking	GR	Grade	PT	Pressure Treated
BM	Beam	GR BM	Grade Beam	QTY	Quantity
BN	Boundary Nail				
BOT or B	Bottom	HAS	Headed Anchor Stud	RAD or R	Radius
BOF	Bottom of Footing	HD	Hold Down	RC	Reinforced Concrete
BOS	Bottom of Steel	HDG	Hot Dipped Galvanized	RE:	or REF Refer to (Reference)
BRG	Bearing	HK	Hook	REINF	Reinforce(ing)(d)(ment)
BSMT	Basement	HORIZ	Horizontal	RET	Return
BTWN	Between	HT	Height	REQD	Required
		HVAC	Heating-Ventilating and A/C	REQT(S)	Requirement(s)
				RO	Rough Opening
CC	Center to Center	ID	Inside Diameter	(S)	Salvaged
CG	Center of Gravity	I.F.	Inside Face	SCHED	Schedule
CIP	Cast-In-Place	IN	Inch	SEC	Section
CJ	Control Joint	INT	Interior	SIM	Similar
CJP	Complete Joint Penetration	IT	Precast Inverted Tee Beam	SLH	Short Leg Horizontal
CL	Centerline	JST	Joist	SLV	Short Leg Vertical
CLG	Ceiling	JT	Joint	SOG	Slab on Grade
CLR	Clear	K	Kip	SP @	Space At
CMU	Concrete Masonry Unit	KSI	Kips per Square Inch	SP	Space(s)
COL	Column	L or LG	Length	SPECS	Specifications
CONC	Concrete	LB (S)	Pound(s)	SPRT	Support
CONN	Connection	LL	Live Load	SS	Stainless Steel
CONST	Construction	LLH	Long Leg Horizontal	STD	Standard
CONT	Continue or Continuous	LLV	Long Leg Vertical	STIFF	Stiffener
CONTR	Contractor	LOC (S)	Location(s) or Locate	STL	Steel
COORD	Coordinate	LONG	Longitudinal	STR	Structural
CSJ	Construction Joint	LSL	Laminated Strand Lumber	SW	Shearwall
CTR(D)	Center(ed)	LT	Light	SYM	Symmetrical
d	Penny	LT WT	Light Weight	T&B	Top & Bottom
DBL	Double	LVL	Level or Laminated Veneer Lumber	T	Top
DEG	Degree	LWC	Light Weight Concrete	T/	Top of
DIA or Ø	Diameter	MAS	Masonry	TH	Thick or Thickness
DIAG	Diagonal	MATL	Material	Th.ROD	Threaded Rod
DIM	Dimension	MAX	Maximum	TL	Total Load
DL	Dead Load	MBS	Metal Building Supplier	T.O.	Top of
DN	Down	MCJ	Masonry Control Joint	TOC	Top of Concrete
DP	Drilled Pier	MECH	Mechanical	TOF	Top of Footing
DT	Precast Double Tee	MEP	Mechanical/Electrical/Plumbing	TOM	Top of Masonry
DTL (S)	Detail(s)	MIL(S)	Millimeter(s)	TOPG	Topping
DWL(S)	Dowel(s)	MIN	Minimum	TOS	Top of Steel
EXIST	Existing	MISC	Miscellaneous	TOW	Top of Wall
EA	Each	ML	Micro-Lam	TRANS	Transverse
EC	Epoxy Coated	MNFR	Manufacturer	TYP	Typical
EE	Each End	MO	Masonry Opening	ULT	Ultimate
EF	Each Face	MTL	Metal	UNO	Unless Noted Otherwise
EJ	Expansion Joint	N	North	VERT	Vertical
EL	Elevation	NS	Non-Shrink or Near Side	VIF	Verify In Field
EMBED	Embedded	NIC	Not in Contact		
EN	Edge Nail	NO or #	Number	W/O	Without
ENGR	Engineer	NOM	Nominal	W/	With
EOR	Engineer-of-Record	NTS	Not To Scale	WD	Width or Wood
EOS	Edge of Slab	NWC	Normal Weight Concrete	WF	Wide Flange
EQ	Equal	OAE	Or Approved Equivalent	WT	Weight
EQ SP	Equally Spaced	OC	On Center	WWR	Welded Wire Reinforcement
EQUIP	Equipment	OCEW	On Center Each Way	WxH	Width x Height
ES	Each Side				
EW	Each Way				
EXP ANCH	Expansion Anchor				
EXP	Expansion				
EXT	Exterior				

LEGEND

SYMBOL	DESCRIPTION
	ELEVATION SYMBOL
	HOLD DOWN LOCATION
	HELICAL PILE LOCATION
	KEYED NOTE
	DRAWING REVISION NUMBER
	CURRENT REVISION CLOUD
	SUBGRADE
	RIGID INSULATION
	CAST IN PLACE CONCRETE
	DETAIL CUT
	SHEET REFERENCE
	BEAM
	FOOTING

PLAN INDEX

S-001	PLAN INDEX; LEGEND; ABBREVIATIONS
S-002	OUTLINE SPECIFICATIONS
S-003	OUTLINE SPECIFICATIONS
S-004	TYPICAL DETAILS
S-101	FOUNDATION PLAN
S-201	FRAMING PLAN
S-301	FOUNDATION DETAILS
S-401	FRAMING DETAILS
S-402	FRAMING DETAILS

ARCHITECT'S STAMP

SHEET TITLE:
Index - Legend - Abbreviations

PROJECT NAME:
Chinle HMO Building

Navajo Housing Authority

Revisions	Mark	Date	Description



CONSTRUCTION / PERMIT



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PROJECT NUMBER: NHA Chinle
FILE: NHA Chinle HMO.rvt
DRWN. BY: JAR
CHKD BY: AEL / JJS
DATE: 5/28/2021

SHEET OF
S-001

STRUCTURAL OUTLINE SPECIFICATIONS FOR CHINLE HMO, NM

I. DESIGN CRITERIA & GENERAL NOTES

- A. Design Codes and Manuals:
- 2015 International Building Code (IBC)
 - ASCE 7-10, Minimum Design Loads for Buildings and Other Structures
 - AISC Manual of Steel Construction, Latest Edition
 - American Society for Testing and Materials (ASTM)
 - American Wood Council, National Design Specification for Wood Construction 2015

B. VERTICAL DESIGN LOADS:

- Live Roof Loads**
 - Roof.....20 PSF
 - Unreduced Live Load, L_020 PSF
 - Reduction Factor-Tributary, R_T1.0
 - Reduction Factor-Slope, R_S1.0
 - Snow Loads
 - Roof Snow Load.....20 PSF
 - Ground Snow Load, p_g20 PSF
 - Risk Category.....II
 - Snow Importance Factor, I_s1.0
 - Exposure Factor, C_e1.0
 - Thermal Factor, C_t1.0
 - Roof Slope Factor, C_s1.0
 - Low Slope Snow Load, p_117 PSF
 - Sloped Roof Snow Load, p_s17 PSF
 - Dead Loads
 - Roof.....25 PSF

C. HORIZONTAL DESIGN LOADS:

- Wind Loads**
 - Risk Category II
 - Exposure "C"
 - Ultimate Design Wind Speed (V) - (3 SECOND GUST) - 115 MPH
 - Design Wind Pressures for Components and Cladding:
 - Roof:
 - Zone 1, $p = -28.80$ psf / +16.60 psf
 - Zone 2, $p = -48.40$ psf / +16.60 psf
 - Zone 3, $p = -72.80$ psf / +16.60 psf
 - Roof Overhang:
 - Zone 2, $p = -53.72$ psf
 - Zone 3, $p = -90.30$ psf
 - Walls:
 - Zone 4, $p = -31.30$ psf / +28.80 psf
 - Zone 5, $p = -48.65$ psf / +26.40 psf
 - Effective Wind Area = 10 sf
- Seismic Loads
 - IBC Site Classification: Unknown-Soil Report required before construction is to begin. The below values are based on the assumption of an IBC site class D.
 - Risk Category II
 - Seismic Importance Factor: 1.0
 - Mapped Spectral Response Accelerations
 - Short period: $S_s = 0.159$
 - 1 Second period: $S_1 = 0.049$
 - Spectral Response Coefficients
 - Short period: $SD_s = 0.170$
 - 1 Second period: $SD_1 = 0.078$
 - Seismic Design Category: "C"
 - Basic Seismic-Force-Resisting System: Light framed walls sheathed with wood structural panels rated for shear resistance
 - Seismic Response Coefficient: $C_s = 0.026$
 - Response Modification Factor: $R = 6.5$
 - Analysis Procedure Used = Equivalent Lateral Force Procedure

D. GENERAL NOTES

- Drawings
 - Do not scale drawings.
 - See architectural, mechanical, electrical and plumbing drawings for exact location and arrangement of any pads, support frames, etc., required for mechanical and electrical equipment and not with other trades concerning plates, anchors, notches, etc., to be placed in concrete.
 - Any conflict between the structural drawings and specifications, and/or other discipline plans and/or specifications shall be brought to the attention of the architect prior to proceeding with the work affected.
 - Contractor shall verify all edge form setting dimensions as well as the location of elevation changes, off-sets, brick ledges, and block-outs with other disciplines and notify this office of any discrepancies that may exist prior to commencing construction.

2. OPENINGS

- Openings, sleeves, etc. to be placed through any structural member shall first be approved by the structural engineer. Sleeves shall be provided for openings prior to placing of concrete. Cutting of hardened concrete shall not be permitted except by special structural approval which will be on an individual basis.
- The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not be limited to bracing and shoring for loads due to hydrostatic, earth, wind or seismic forces, construction equipment, etc. Observation visits to the site by the structural engineer shall not include inspection of the above items.
- Cost of additional field and office work necessitated by requests by the contractor for an option of due to errors or omissions in construction shall be borne by the contractor. Options are for contractor's convenience, he shall be responsible for all changes necessary if he chooses an option and he shall coordinate all details.

E. Foundation Notes

- Geotechnical engineering study and recommendations for this project has been performed by Western Technologies, Inc., project number 3120JS068, dated September 24, 2020.
 - Important additional information concerning specific soil conditions is contained in this report and shall be reviewed prior to the start of construction.
 - Design is based on recommendations provided by the geotechnical engineering study:
 - Allowable soil Bearing Pressure = 2000 psf
 - Frost Depth / Minimum Exterior Footing Embedment = 24"
 - Requirements for granular base and capillary (vapor) barriers is specified in this report. Areas where the capillary barriers are required shall be coordinated with the architect prior to construction. The barrier shall have a minimum thickness of 10 mils and shall conform to the requirements of ACI 302.1R-04.
 - Contractor shall be responsible for providing positive water drainage away from structures, during and after construction.
 - It is important to understand that the performance of the foundation is linked directly to the consistency of the moisture content in the soil. The geotechnical engineering study provides recommendations for natural ground preparation, remedial earthwork, drainage, grading, and landscaping.
- The geotechnical engineering study contains specific requirements concerning clearing and grubbing, site, subfloor and bearing surface preparation, structural fill requirements, compaction requirements, and drainage and sloping requirements not necessarily shown on these drawings. Refer any conflicts between these drawings and the report to the architect for direction prior to beginning any work.
 - The contractor shall engage and bear the cost of a geotechnical engineer or designated representative to monitor site preparation, foundation construction and retaining wall construction. The geotechnical engineer shall provide continuous on-site observation by experienced personnel during construction of controlled earthwork. The contractor shall notify the geotechnical engineer at least two working days in advance of any field operations of controlled earthwork or of any resumption of operations after stoppages. Tests of fill materials and embankments shall be made in accordance to the recommendations for observation and testing provided within the geotechnical recommendations, and at the following suggested minimum rates:
 - At least one moisture-density (proctor) test, Atterberg limits test, and percent finer than #200 sieve test should be performed per each subgrade soil type and engineered fill material. The geotechnical engineer must review the test results for conformance with specifications and approve of fill materials and their intended use, prior to construction.
 - A minimum of one field density and moisture test should be performed per 2000 square feet of building pad fill or pavement subgrade per each 1 foot of compacted fill thickness (or at least one test per each 1 foot of compacted fill thickness in each area worked per day if smaller sections).
 - A minimum of one field density and moisture test should be performed per 50 linear feet of foundation excavation bottom prior to placement of reinforcing steel and concrete (or at least one test per area worked per day if smaller sections).
 - A minimum of one field density and moisture test should be performed per 100 linear feet of retaining wall backfill and/or utility trench backfill per each 1 foot of compacted fill thickness (or at least one test per each 1 foot of compacted fill thickness in each area worked per day if smaller sections).

II. QUALITY ASSURANCE & STATEMENT OF SPECIAL INSPECTION

- The contractor shall engage qualified independent inspectors to implement special inspection. Special inspection shall conform to the IBC, chapter 17.
- After each inspection and test, promptly submit copy of laboratory report to owner, architect/engineer, and to contractor. Report shall include:

- Date issued, Project title and number, Name of inspector, Date and time of sampling or inspection, Identification of project specifications section, Location of project, Type of inspection or test, Date of tests, Results of tests, Conformance with contract documents

C. Required inspections:

- Soils - as outlined in Outline Specifications Section titled "Foundation Notes"
 - Concrete - as outlined in the Outline Specifications Section titled "Structural Concrete"
 - Installation of embedded bolts and plates supporting structure
 - Reinforcing steel placement
 - Field bending of reinforcing steel
 - Reinforcing couplers
 - Anchored rebar or threaded rods into hardened concrete
 - Wood & Cold-Formed Steel
 - Hold down anchors/strap ties
 - Shear wall/diaphragm fastening
 - Metal connectors
- D. Special inspection is to be provided in addition to inspections conducted by the building department and shall not be construed to relieve the owner or his authorized agent from requesting the period and called inspections required by section 1704 of the International Building Code.
- Periodic inspection is defined as the part-time or intermittent observation of work requiring inspection by an approved inspector who is present in the area where the work has been or is being performed at the completion of work.
 - Special inspection is required for the following:
 - Concrete construction
 - Reinforcing steel.....periodic
 - Bolts installed prior to and during concrete placement.....periodic
 - Mix design(s).....periodic
 - At the time fresh concrete is sampled.....periodic
 - Inspection of concrete placement.....periodic
 - Inspection for maintenance of specified curing techniques.....periodic
 - Special case
 - Expansion or adhesive anchor.....periodic

III. SHOP DRAWING SUBMITTAL

- Contractor to submit to Structural Engineer:
 - Concrete Mix Designs
 - Structural Steel
 - Anchor Bolts
 - Reinforced Masonry
 - Cold-Formed Metal Framing
 - Prefabricated Wood Trusses
 - Reinforcing Bars
- All shop drawings and submittals must be reviewed and stamped by the contractor prior to submittal. Shop drawings and submittals shall be accompanied by sealed calculations as required by the specifications. No fabrications shall proceed before shop drawings covering that work have been approved. Allow at least 10 days for shop drawing review.

IV. STRUCTURAL CONCRETE

- All concrete edges shall be chamfered 3/4" on exposed corners unless otherwise noted.
- Basis for design, strength at 28 days:
 - Unless indicated otherwise, all concrete shall be ready-mixed concrete with standard stone aggregate (144 PCF).
 - Air entrainment shall conform to the requirements of ACI 318-14 Table 19.3.3.1
 - Structural design is based upon ACI 318-14 and construction shall conform to ACI 301 and ACI 302, latest edition(s).
 - $F'_c = 4000$ psi (normal weight, air entrained)
 - Exposed concrete flatwork, footings and stem walls
 - $F'_c = 3000$ psi (normal weight)
 - Interior slabs on ground
 - Unless otherwise indicated, concrete cover shall be:
 - Foundations.....3"
 - Slabs (Not exposed to weather)3/4"
 - Slabs (Exposed to weather)1 1/2"

C. REINFORCING STEEL

- Deformed Bars.....ASTM A615 / Grade 60
- Welded Wire Fabric.....ASTM A185
- Placing of reinforcing shall conform to CRSI, latest edition.
- All reinforcing shall be held securely in position with standard accessories during placing of concrete.
- Slab and beam bolsters and hi-chairs shall have vinyl-tipped turned-up legs where soffits/underside of slab is exposed.
- All field bending of reinforcing shall be done cold. Heating of bars will not be permitted.

- Unless otherwise indicated, splice reinforcing as follows:
 - Reinforcing Bars.....48 Bar Diameters
 - Welded Wire Fabric.....6"

D. WALLS

- Exposed site walls, retaining walls, and stem walls greater than 30 feet in length shall have control joints installed and spaced no greater than 25 feet on center. Install joints within 10 feet of all wall corners.
- Contractor shall submit to architect, final locations of all control joints for approval, prior to construction.

E. SLAB-ON-GROUND CRITERIA

- Strict adherence to the specified water-to-cement ratio of 0.45 is required. Water shall not be added to the mix at the time of placement.
- Shrinkage shall not exceed 0.02% per ASTM C 157 at 28 days. Shrinkage-compensating concrete shall conform to the recommendations of ACI 223.
- Moist curing of slabs-on-ground is required.
- Care shall be taken to prevent water intrusion into the subgrade both prior to and after slab pours.
- Contraction joints (control joints) shall be installed on all concrete slabs on grade. Verify locations of all joints with Architect prior to placing concrete. The joints shall be spaced no further than 36 times the slab thickness or 15 ft. L or T shapes be avoided when placing crack control joints. If the shape of the area contained by the crack control joints is not square, the aspect ratio of this area should not exceed 1.5 to 1. The control joints should be placed such that they are continuous and not staggered or offset. Placement shall be in accordance to ACI 302.1.
 - Timing of early entry slab saw cuts is critical to slab curing performance. Saw cuts for control joints (contraction joints) shall be made at the earliest possible time that the concrete will support the weight of saw cutting equipment and operations. Timing of early entry saw cuts shall vary between 1 hour in hot weather and 4 hours in cold weather. Early entry dry cut saws shall use a skid plate to prevent spalling.
 - Early entry dry cut saw should be 1 inch into the depth of the slab. The slab shall be cut to 1/4 of the slab depth to deepen the 1 inch nominal early entry saw cut within 24 hours.
 - A construction or smooth doweled saw cut contraction joint shall be placed at a maximum of 125 ft.
 - All joints shall be filled to the full joint depth with semi-rigid joint filler in areas exposed to vehicular traffic. Overfill joint and trim joint filler flush with top of joint after hardening.
- Concrete containing air-entraining admixture shall not be trowel finished.

F. CONCRETE PLACEMENT & TESTING

- Unless otherwise indicated, five test cylinders shall be made every fifty cubic yards of concrete or fraction thereof on each day's pour. One cylinder shall be held in reserve as a spare. The making and testing of cylinders shall be conducted by an approved testing laboratory; contractor shall bear the cost of testing.
 - Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301.
 - Do not add water to concrete after adding high-range water-reducing admixtures to mixture.
- Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
- Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least 6 inches into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity. At each insertion, limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.
- Maintain ALL reinforcement in position on chairs during concrete placement.

G. COLD WEATHER CONCRETING

- All cold weather concrete work shall meet the requirements of ACI Committee 306, latest edition for cold weather concreting, if, for 3 consecutive days the average daily temperature drops below 40°F and stays below 50°F for more than one-half of any 24 hour period.
- Do not use frozen materials containing ice or snow.
- Do not place concrete on frozen subgrade or on subgrade containing frozen materials.
- The use of calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators is not permitted; contractor shall utilize a high early strength mix design.

H. HOT WEATHER CONCRETING

- All hot weather concrete work shall be in accordance with ACI 301. Maintain concrete temperature below 90°F at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated to total amount of mixing water.
- Fog-spray forms, steel reinforcement, and subgrade just before placing



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SHEET TITLE: Outline Specifications
 PROJECT NAME: Chinle HMO Building Navajo Housing Authority

Revisions	Description	Date	Mark

PROJECT NUMBER: NHA Chinle
 FILE: NHA Chinle HMO.rvt
 DRWN. BY: JAR
 CHKD BY: AEL / JJS
 DATE: 5/28/2021
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S-002

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STRUCTURAL OUTLINE SPECIFICATIONS FOR CHINLE HMO, NM

concrete. Keep subgrade uniformly moist without standing water, soft spots, or dry areas.

I. EMBEDDED CONDUIT

- 1. Embedded conduits and/or pipes shall not be installed in slabs or columns, unless approved by the structural engineer, prior to construction.
- 2. Conduits and/or pipes shall be protected against rusting. Aluminum conduits and/or pipes shall not be embedded in concrete.

V. STRUCTURAL STEEL

A. Work shall conform to all applicable codes and specifications and in accordance with the American Institute of Steel Construction Specifications, latest edition, the AWS D1.1 and ASTM A-36, latest edition.

B. Structural steel shall conform to the American Institute of Steel Construction Specifications:

- 1. Hot rolled shapes, must conform to the requirements of ASTM Specifications A-36, A-572 or A-992, with minimum yield of 36 or 50 ksi, respectively.
- 2. Round HSS, must conform to the requirements of ASTM A-500 Grade B with minimum yield strength of 42 ksi.
- 3. Rectangular HSS, must conform to the requirements of ASTM A-500 Grade B with a minimum yield strength of 46 ksi.
- 4. Pipe sections must conform to the requirements of ASTM A53 with a minimum yield strength of 35 ksi.
- 5. Steel for Cold-Formed sections must conform to the requirements of ASTM A-1011 or A-1039 Grade 55, or ASTM A-653 Grade 55 with minimum yield strength of 55 ksi.

C. Paint: steel shall be given primer coat of paint and at a rate to provide dry film thickness of not less than 1.5 mils. Field welds, bolts, nuts, abrasions, scrapes, etc., shall be primed after erection.

D. Welding electrodes: welding electrodes for manual shielding metal-arc welding shall conform to E60 or E70 series of the "specifications for mild steel arc-welding electrodes, ASTM A233. Bare electrodes and granular flux used in the submerged arc process shall conform to the provisions of the A15C, Section 1.173, or Part5."

E. Bolts, standard: Shall conform to ASTM A307.

F. Bolts, high strength: Shall conform to ASTM A490, or A325 as shown.

G. Grout for base plates shall be Embecco as manufactured by the Master Builders Company, or approved equal.

H. Provide 1/2" pre-molded expansion joint material where slab on grade is poured around columns unless otherwise shown.

I. Shop drawings shall indicate all structural steel layouts and details showing the type of steel used for each member, sizes of members, connection details, welds, bolts, etc., as required to fabricate and erect all structural steel framing and type of shop paint used conforming to that specified.
1. Coordinate final column locations based on opening size architectural requirements for finishes.

J. All steel framing shall receive one shop coat of paint.

K. Responsibility for errors of detailing, fabrication and for the correct fit of all structural steel members in accordance with the contract drawings shall lie entirely with the subcontractor for fabrication.

L. Splices not shown on the drawings will not be permitted unless approved by the structural engineer.

M. Structural steel shall be erected in accordance with the AISC specifications and in accordance with the AISC Code of Standard Practice, latest edition.

N. Bolted field connections, unless otherwise noted, shall be standard framed beam connections, and made in accordance with specifications for structural joints using ASTM A-490 bolts, or A-325 bolts as shown.

O. Brace and maintain all steel in alignment until other parts of construction necessary for permanent bracing or support are completed. Install temporary guys and bracing to resist wind loading designated in applicable building code. The contractor is responsible for the stability of the steel frame until such time as all structural elements have been completed and building is enclosed.

P. The owner shall engage an independent testing and inspection agency to inspect bolted and welded connections. If deemed necessary by the Structural Engineer; radiographic/ultrasonic/magnetic particle testing of structural welds.

Q. Fabricator and installer qualifications

- 1. A qualified fabricator or installer that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category STD.
 - a) In lieu of participation in the AISC Quality Certification Program or AISC-Certified, the fabricator/erector may employ the services of an approved independent qualified inspector for structural steel. Inspector

qualifications and special inspections shall conform to the requirements of the International Building Code, Chapter 17 and shall be in accordance with AWS D1.1.

VI. CARPENTRY

A. Dimensional lumber shall conform to the grading standard of the Western Wood Products Association (WWPA), surface dry, seasoned 90 days, and 19 percent maximum moisture content.

- 1. Wood-Preservative-Treated Lumber shall be utilized as follows:
 - a) Items in contact with concrete or masonry.
 - b) Framing less than 18" above ground in crawlspaces.
 - c) Floor plates installed over concrete slabs-on-grade.
- 2. Preservative Treatment: AWPA C2 with chemicals containing no arsenic or chromium.
 - a) AWPA C31 inorganic boron may be used in protected locations.

B. Wood Design Values

- 1. Douglas Fir #1 (Timbers)
 - a) Fb = 1,350 psi, Ft = 675 psi, Fv = 170 psi, Fc = 925 psi, E = 1,600,000 psi
- 2. Hem Fir #2 (Studs and headers)
 - a) Fb = 850 psi, Ft = 525 psi, Fv = 150 psi, Fc = 1,300 psi, E = 1,300,000 psi
- 3. Roof sheathing shall be 19/32" O.S.B., Structural 1, unblocked. Nailing pattern = 10d common nails @ 6" o.c. edges and 12" o.c. field w/ edge supporting clips, UON. Fire rated O.S.B. shall be provided to 4'-0" on each side of party walls at the roof level.
- 4. Wall sheathing shall be 7/16" O.S.B., Structural 1, blocked. Nailing pattern = 8d common nails @ 6" o.c. edges and 12" o.c. field, UON.
- 5. Plywood backing panels for telephone and electrical equipment.
- 6. All pre-fab connectors (Simpson, etc.) shall be fully fastened using type, size and quantity specified by the manufacturer. All exterior connectors shall be galvanized. General contractor to submit connection schedule to architect/engineer prior to installation.

C. FASTENING

- 1. All fastening to be in accordance with IBC Fastening Schedule Table 2304.10.1, UON.

VII. COLD-FORMED METAL FRAMING

A. All cold-formed metal framing shall be designed in accordance with "specifications for the design of cold formed steel structural members" as published by AISI, latest edition, and shall be formed from corrosion-resistant steel corresponding to the requirements of ASTM A446.

B. All cold-formed metal components are subject to wind load designs in accordance with the International Building Code 2009 - Wind pressure designs and shop drawings shall be signed and sealed by a structural engineer registered in the state of New Mexico and shall be submitted to the Architect for approval.

C. All welding shall conform to the provisions of AWS D1.1 and ANSI/AWS D1.3. Where the weld throat is not shown on the drawings, the weld throat shall be at least as large as the thickness of the thinnest sheet joined. All welds shall provide complete fusion of the sheets without "blowouts."

D. Fabricate steel-framing accessories from steel sheet, ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of same grade and coating weight used for framing members.

E. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed cold-formed metal framing with galvanized repair paint according to ASTM A 780 and manufacturer's written instructions.

VIII. PREFABRICATED WOOD TRUSSES

A. Engineering design drawings bearing the seal of the Registered Engineer preparing the design shall be provided to the Engineer for approval.

B. Truss designs shall be in accordance with the latest version of ANSI/TPI1 National Design Standard for Metal Plates Converted Wood Construction, a publication of Truss Plate Institute and generally accepted engineering practice.

C. Design for loads shown. Limit total deflection to L/240. Limit total deflection to L/480 for brittle finishes.

D. Delivery, handling, and erection of trusses shall be in accordance with the "TPI Quality Standard for Metal Plate Connected Wood Trusses," published by Truss Plate Institute.

E. It is the responsibility of the installer to select the most suitable method and sequence of installation available to him which is consistent with the plans and specifications and such other information which may be furnished to him prior to installation. Trusses may be installed either by hand or by mechanical means. The method generally depends upon the span of the trusses, their installed height above grade, and/or the accessibility or availability of mechanical installation equipment (such as a crane or forklift). The installer should be knowledgeable about the truss design drawings, truss placement plans, and all notes and cautions thereon.

F. Temporary or installation bracing is the responsibility of the installer. Temporary

bracing should remain in place as long as necessary for the safe and acceptable completion of the roof or floor and may remain in place after permanent bracing is installed.

G. Trusses shall not be modified on-site. Do not cut truss chords or webs or modify trusses in any way during construction.

IX. ENGINEERED WOOD PRODUCTS

A. Structural Composite Lumber

- 1. Structural composite lumber shall have a current product evaluation report from the International Code Council (ICC) Evaluation Services. Structural glued laminated timber (glulam) shall be manufactured per standard ANSI 190.1.
- 2. Structural composite lumber grades shall be as follows
 - a) Boise Cascade
 - (1) LVL, PSL (ESR 1040);
 - (a) VERSA-LAM 2.1 3100

B. Engineered Wood Provisions

- 1. Contractor shall submit a complete set of design calculations and layout drawings prepared by the manufacturer for review and approval by the architect and project engineer.
- 2. Contractor shall be responsible for proper installation per detailed installation suggestions and guidelines of the manufacturer.
- 3. Contractor shall notify the project engineer prior to enclosing the beams and joists to provide opportunity for observation of the installation.
- 4. Manufacturer shall warrant all products specified to be free from manufacturing error or defects in workmanship and materials.
- 5. Temporary construction loads which cause stresses beyond the product's design limits are not permitted.
- 6. All framing hardware must be the type specified by the engineered wood products manufacturer for the product and approved by the hardware manufacturer for installation.
- 7. Joists and beams shall be erected and installed in accordance with the following:
 - a) No building, structure, or part thereof, or any temporary support or scaffolding in connection therewith shall be loaded in excess of its designed capacity.
 - b) Bracing.
 - (1) Joists and beams shall be braced laterally and progressively during construction to prevent buckling or overturning.
 - (2) The first member shall be plumbed, connected, braced and/or guyed against shifting before succeeding members are erected and secured to it.
 - (3) The total system shall be adequately braced and stabilized to the foundation, to suitable anchors buried in the ground, or by other equivalent method(s).
 - (4) Beams and other material being lifted and placed by cranes or other hoisting apparatus shall not be released from the crane or hoisting apparatus until the person detaching the load has verified that the load has been secured or supported to prevent inadvertent movement.
- 8. All engineered wood products shall be protected from the weather during construction. Wood I-joists shall be stored in a vertical orientation.
- 9. Wood I-joist flanges may NOT be notched or cut. All holes in engineered wood products are only as detailed by the manufacturer or as approved by the project engineer.
- 10. Minimum bearing lengths shall be as specified per the design calculations. Bearing across the full width of the beam or joist is required.

X. POST-INSTALLED ANCHORS

A. Except where indicated on the drawings, post-installed anchors shall consist of the following anchor types as provided by Simpson Strong-Tie Company, inc. contact Simpson Strong-Tie at (800) 999-5099 for product related questions.

- 1. Anchorage to concrete
 - a) Adhesive anchors for cracked and uncracked concrete with Set-3G™ technology:
 - b) Adhesive anchors for cracked and uncracked concrete with standard cleaning procedures use:
 - (1) Simpson Set-XP Adhesive anchoring system with HAS-E threaded rod or deformed rebar per ICC-ES ESR-2508 for fast cure applications.
 - (2) Simpson Set-XP Adhesive anchoring system with HAS-E threaded rod or deformed rebar per ICC-ES ESR-2508 for slow cure applications.

B. Anchor capacity used in design shall be based on the technical data published by Hilli or such other method as approved by the structural engineer of record. Substitution requests for alternate products must be approved in writing by the structural engineer of record prior to use. Contractor shall provide calculations demonstrating that the substituted product is capable of achieving the performance values of the specified product. Substitutions will be evaluated by their having an ICC ESR showing compliance with the relevant building code for seismic uses, load resistance, installation category, and availability of comprehensive installation

instructions. Adhesive anchor evaluation will also consider creep, in-service temperature and installation temperature.

C. Install anchors per the manufacturer instructions, as included in the anchor packaging.

D. Anchor capacity is dependent upon spacing between adjacent anchors and proximity of anchors to edge of concrete. Install anchors in accordance with spacing and edge clearances indicated on the drawings.

E. Existing reinforcing bars in the concrete structure may conflict with specific anchor locations. Unless noted on the drawings that the bars can be cut, the contractor shall review the existing structural drawings and shall undertake to locate the position of the reinforcing bars at the locations of the concrete anchors, GPR, X-ray, chipping or other means.



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ARCHITECT'S STAMP

SHEET TITLE:
Outline Specifications

PROJECT NAME:
**Chinle HMO Building
Navajo Housing Authority**

Revisions	Description	Date	Mark

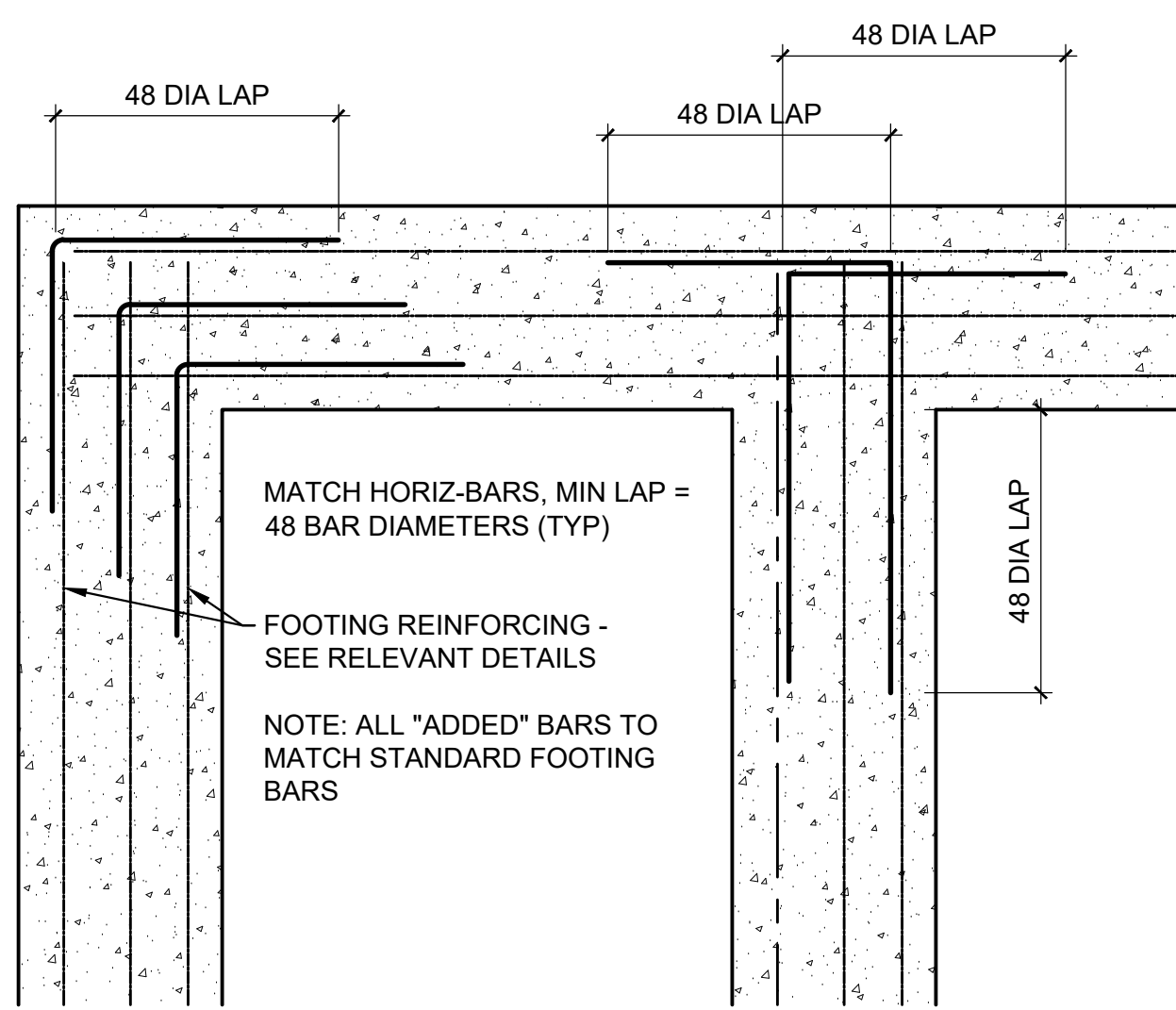


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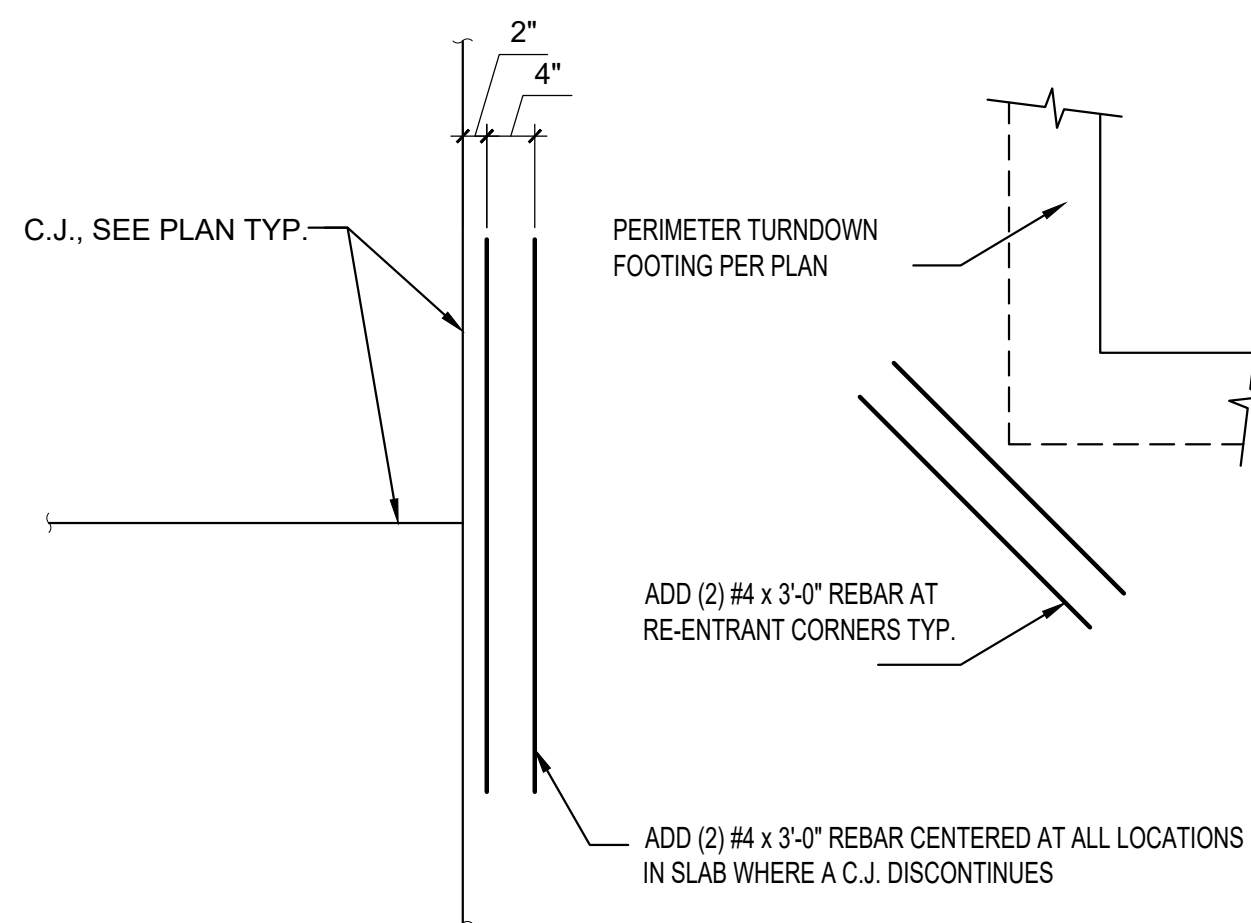


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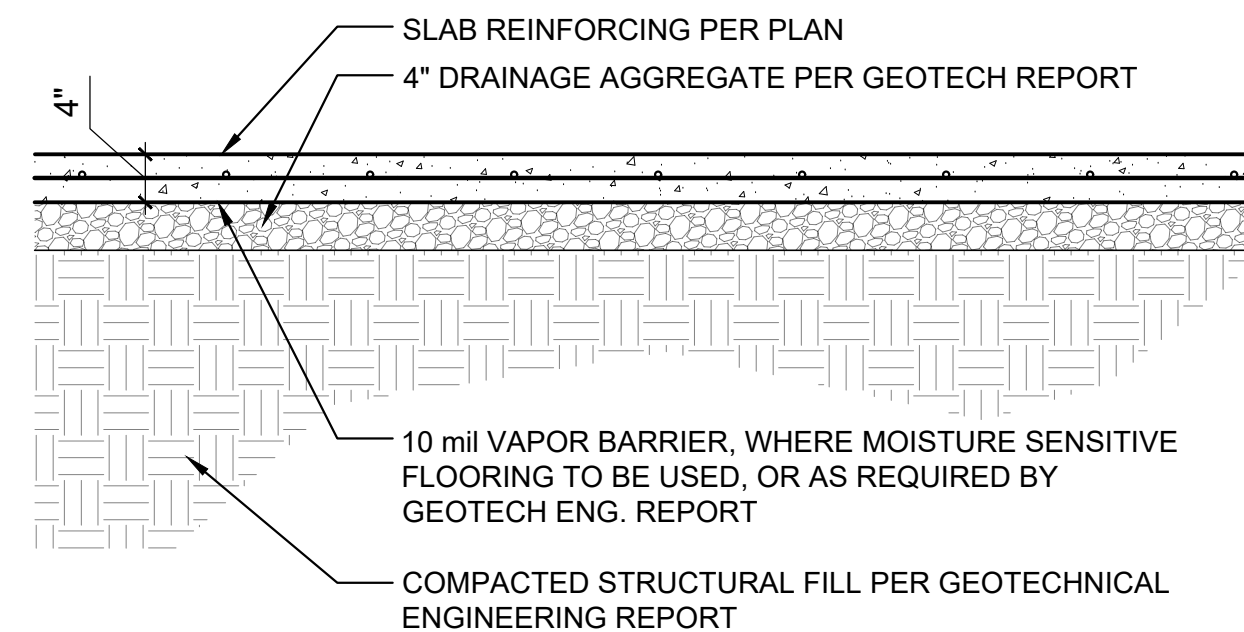
PROJECT NUMBER: NHA Chinle
FILE: NHA Chinle HMO.rvt
DRWN. BY: JAR
CHKD BY: AEL / JJS
DATE: 5/28/2021
SHEET OF
S-003



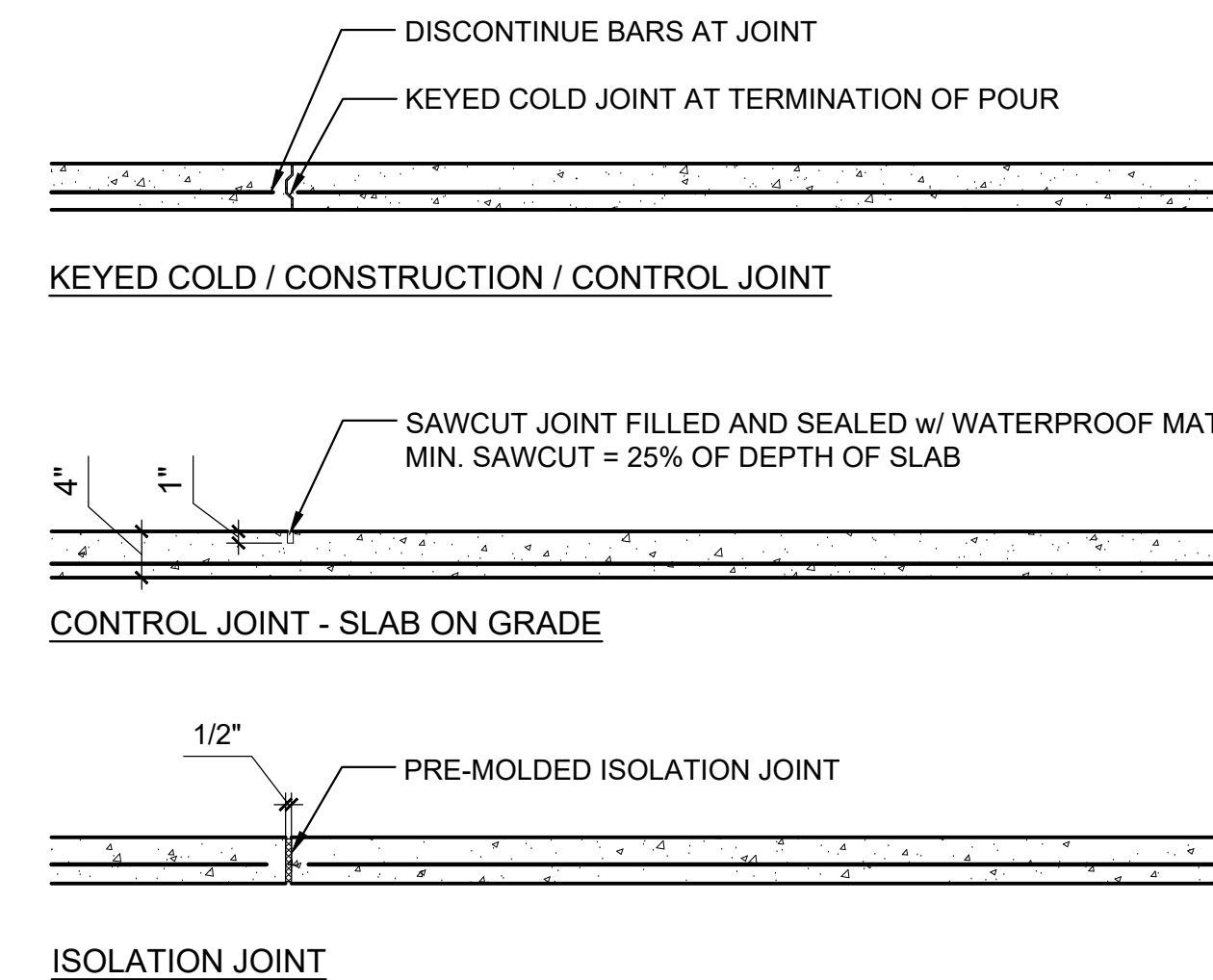
1 FOOTING CORNER AND INTERSECTION REINF.
S004 3/4" = 1'-0"



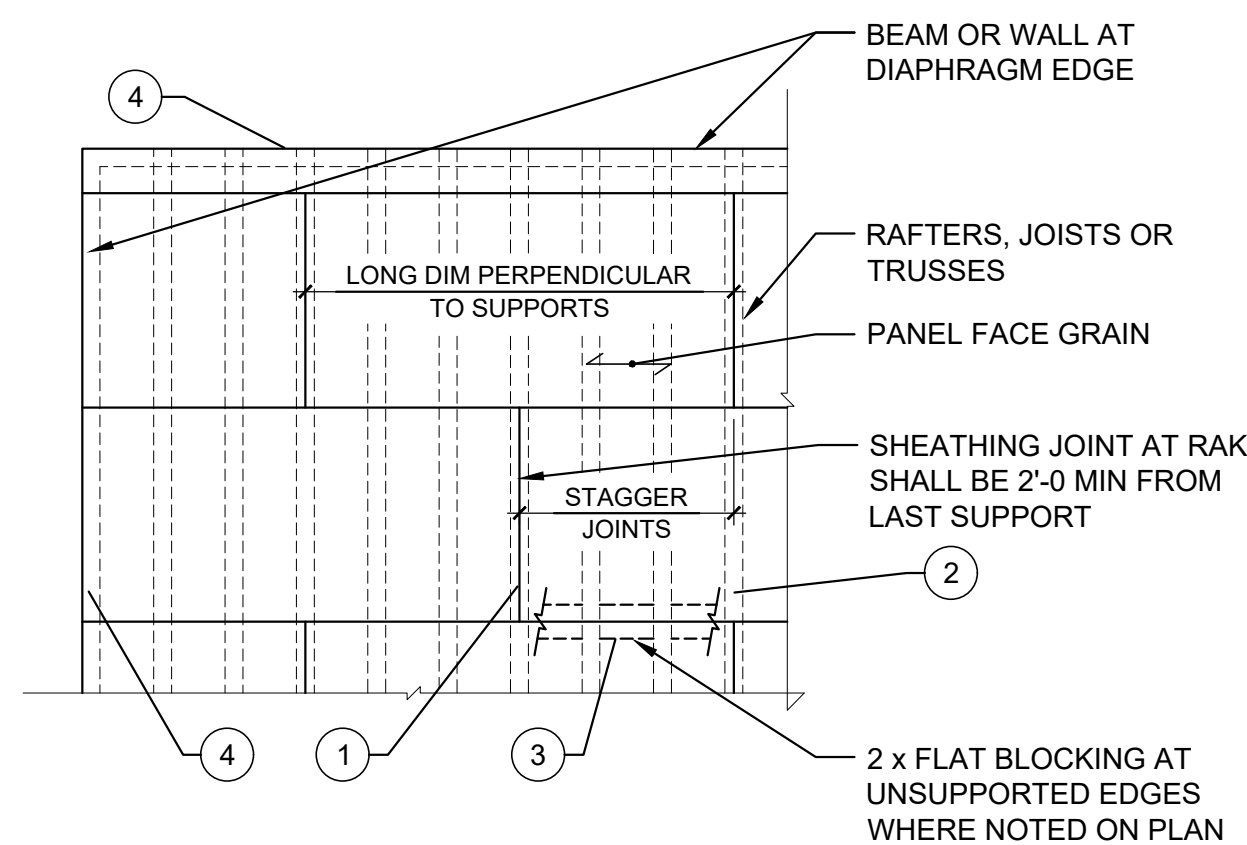
2 CRACK WIDTH CONTROL REINFORCING PLACEMENT
S004 3/4" = 1'-0"



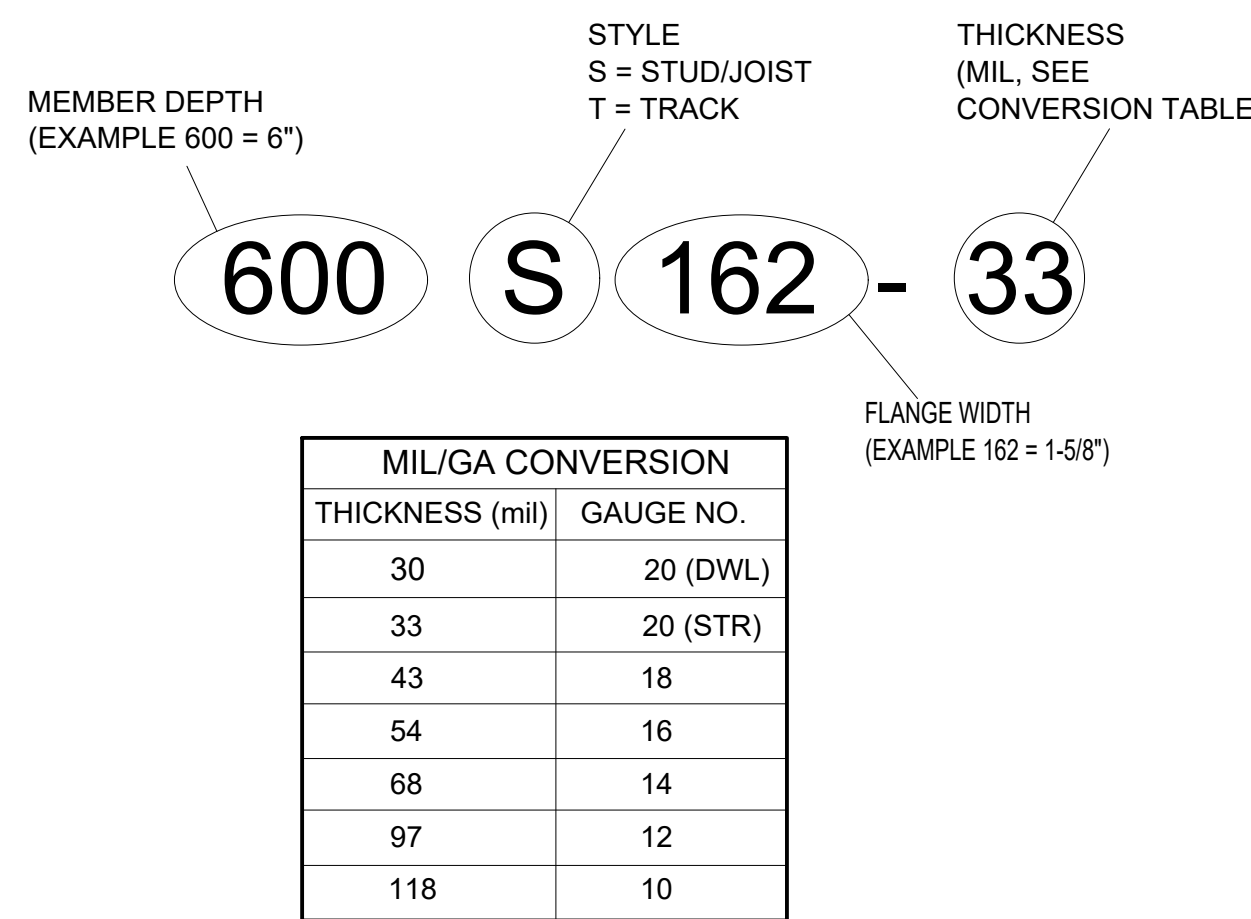
3 TYPICAL SLAB-ON-GROUND
S004 3/4" = 1'-0"



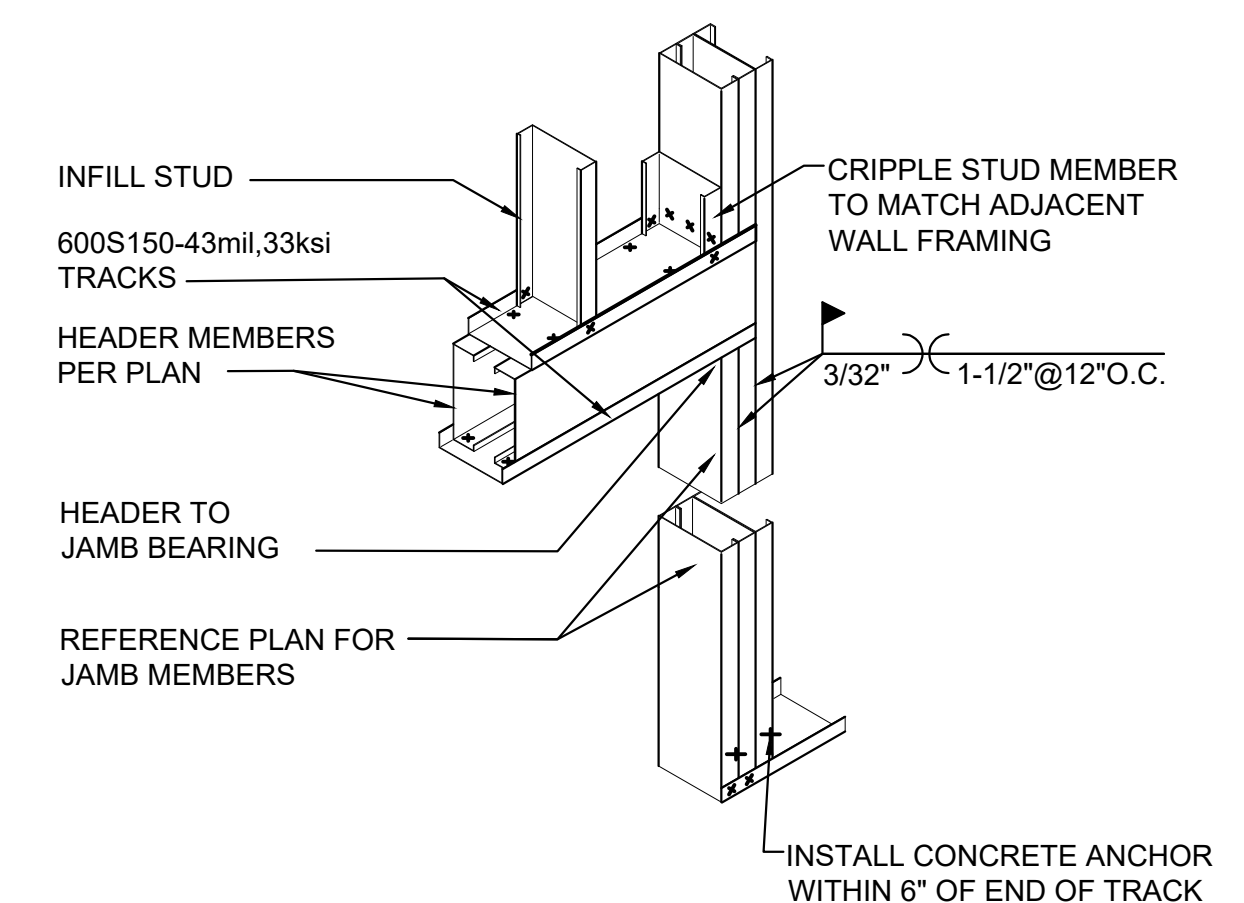
4 SLAB ON GROUND CONTROL JOINTS
S004 3/4" = 1'-0"



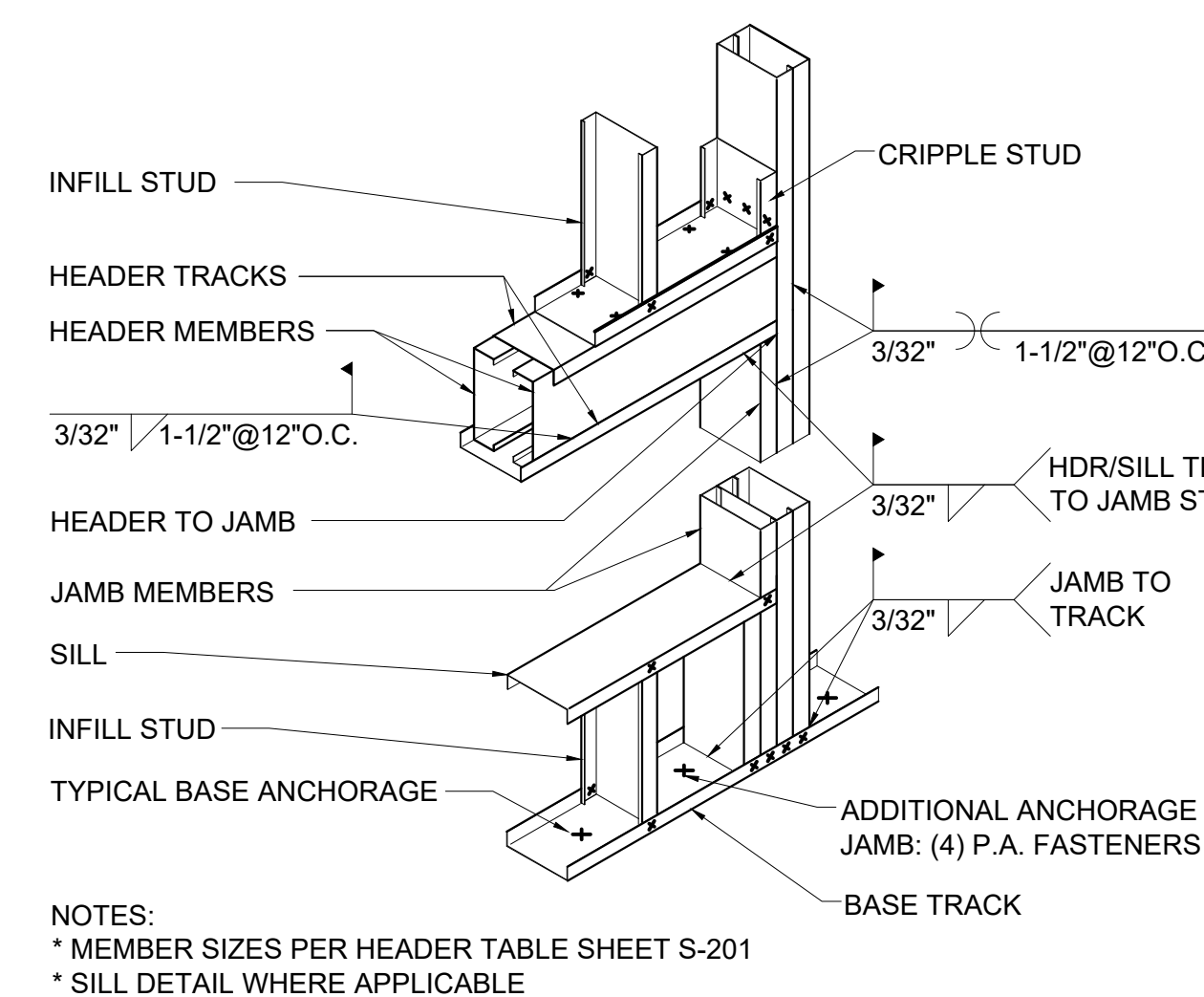
5 TYP WOOD ROOF DIAPHRAGM
S004 N.T.S.



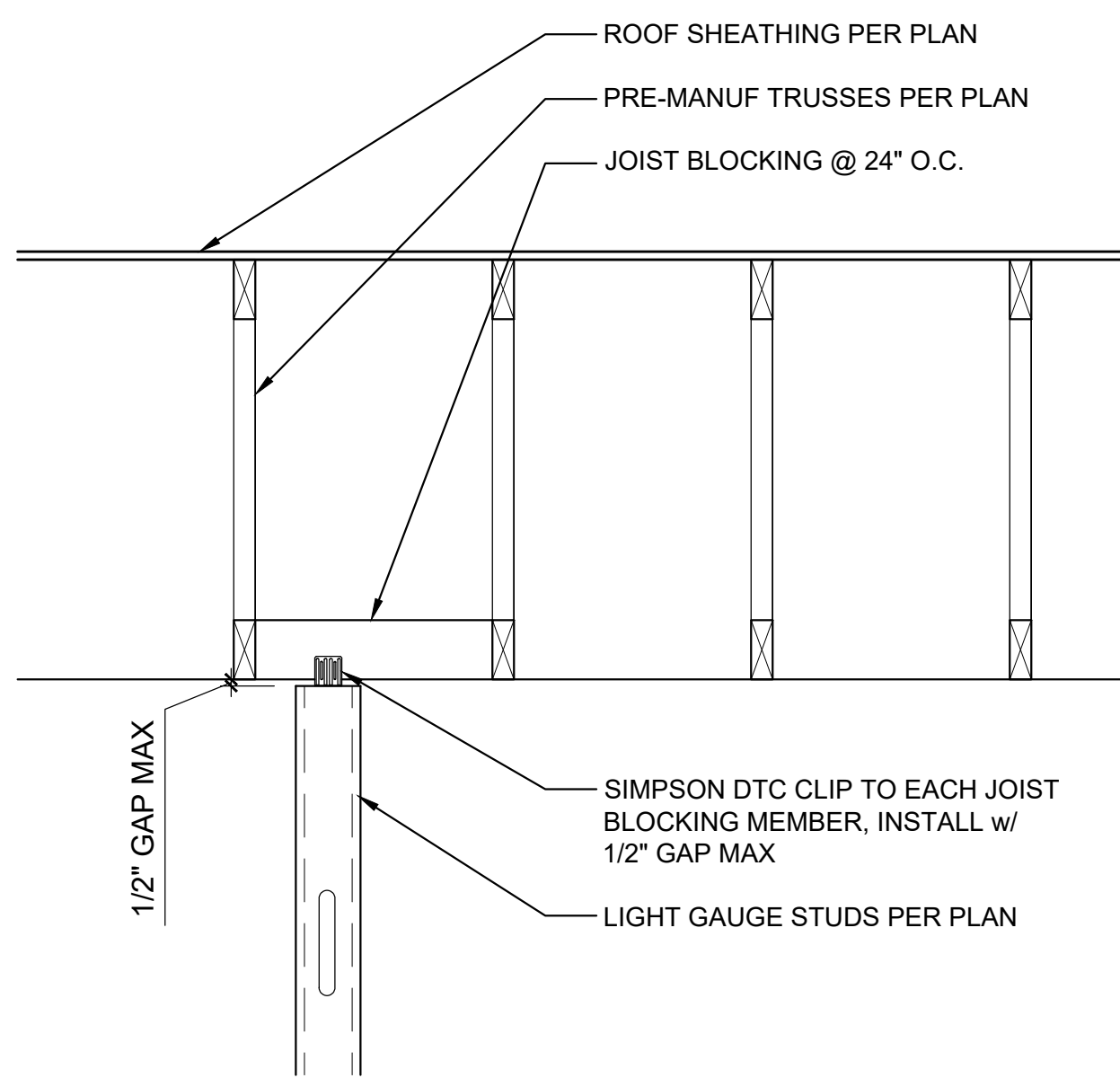
6 METAL STUD DESIGNATIONS
S004 N.T.S.



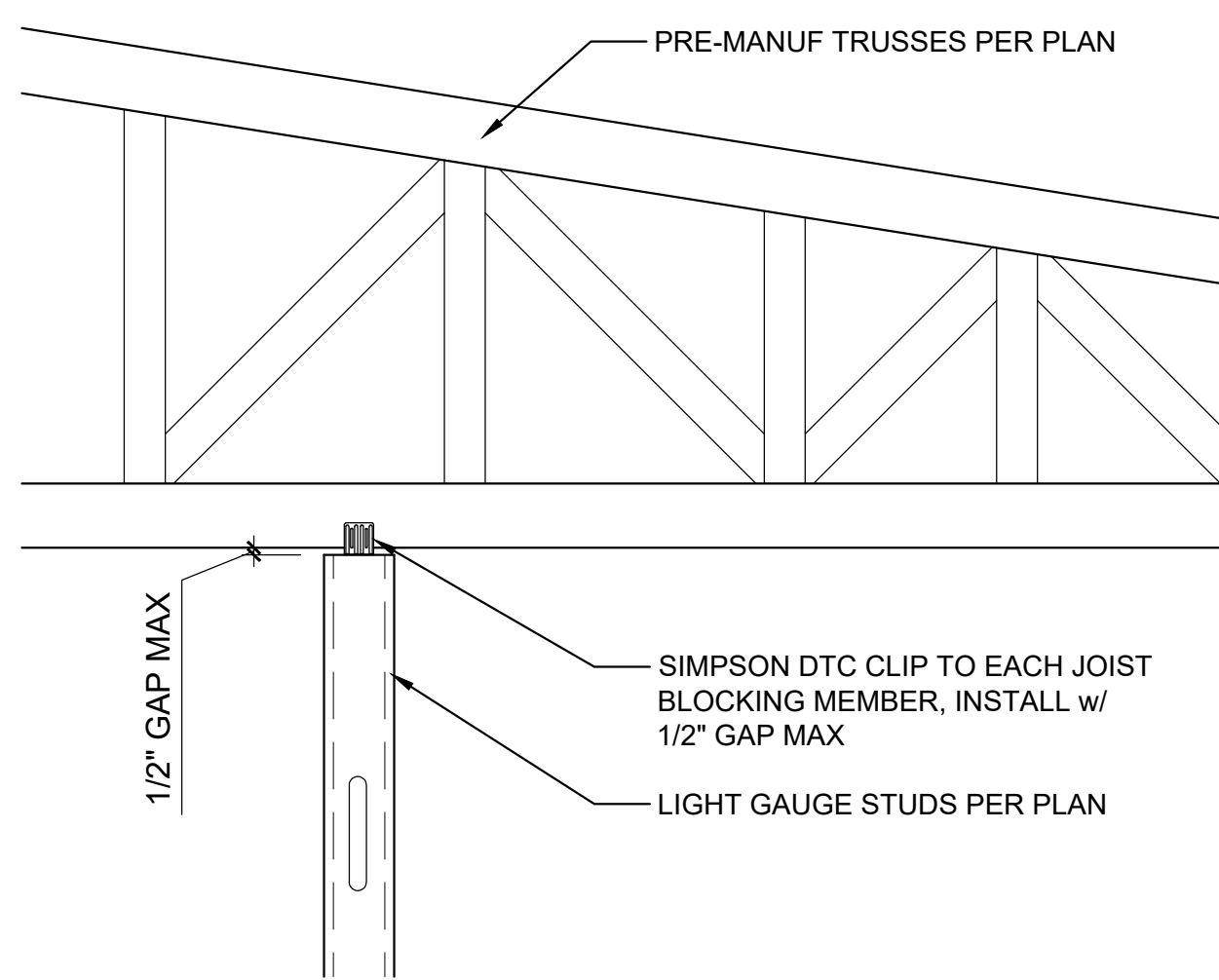
7 LOAD BEARING WALL DOOR OPENING
S004 BOXED HEADER, BOXED JAMB



8 TYPICAL LIGHT GAUGE HEADER
S004 3/4" = 1'-0"



9 NON-LOAD BEARING WALL
S004 3/4" = 1'-0"



10 NON-LOAD BEARING STUD WALL TO TRUSS
S004 3/4" = 1'-0"

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SHEET TITLE:
Typical Details

PROJECT NAME:
**Chinle HMO Building
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Revisions	Date	Mark	Description



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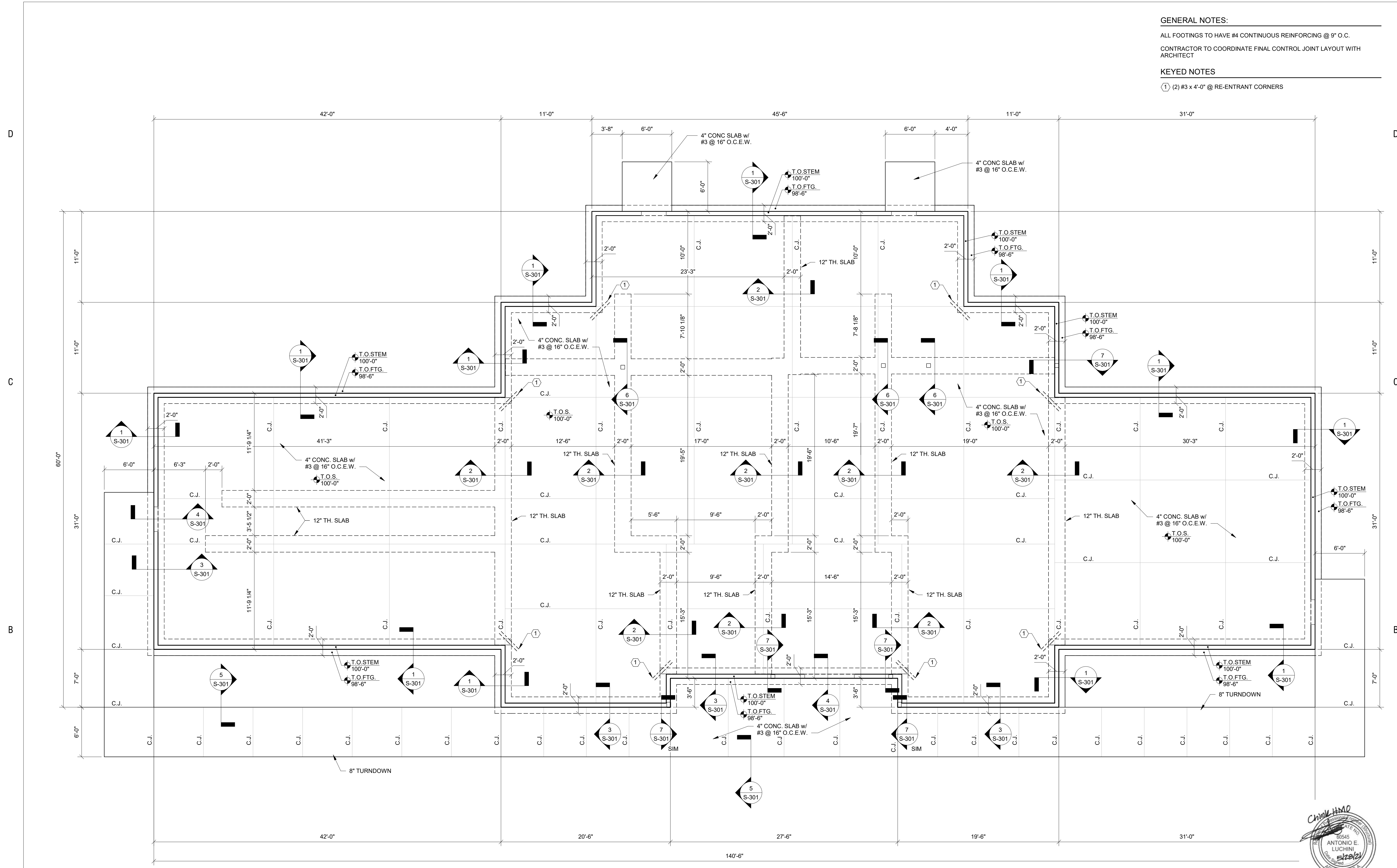
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DRWN. BY: JAR
CHKD BY: AEL / JJS
DATE: 5/28/2021
SHEET OF
S-004

GENERAL NOTES:
 ALL FOOTINGS TO HAVE #4 CONTINUOUS REINFORCING @ 9" O.C.
 CONTRACTOR TO COORDINATE FINAL CONTROL JOINT LAYOUT WITH ARCHITECT

KEYED NOTES:
 (1) (2) #3 x 4'-0" @ RE-ENTRANT CORNERS



1 Foundation Plan
 3/16" = 1'-0"



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SHEET TITLE:
Foundation Plan

PROJECT NAME:
**Chile HMO Building
 Navajo Housing Authority**

Revisions	Mark	Date	Description

PROJECT NUMBER: NHA Chile
 FILE: NHA Chile HMO.rvt
 DRWN. BY: JAR
 DESIGNED BY: AEL
 DATE: 5/28/2021
 SHEET OF
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GENERAL NOTES

TYPICAL EXTERIOR SHEATHING: 7/16" OSB SHEATHING ON EXTERIOR FACE w/ #10 TEK SCREWS AT 6" O.C. EDGES AND 12" O.C. FIELD. ALL SHEATHING EDGES BLOCKED. SILL PLATE ANCHORAGE: 5/8" DIA AB @ 48" O.C.

WALL TYP LEGEND

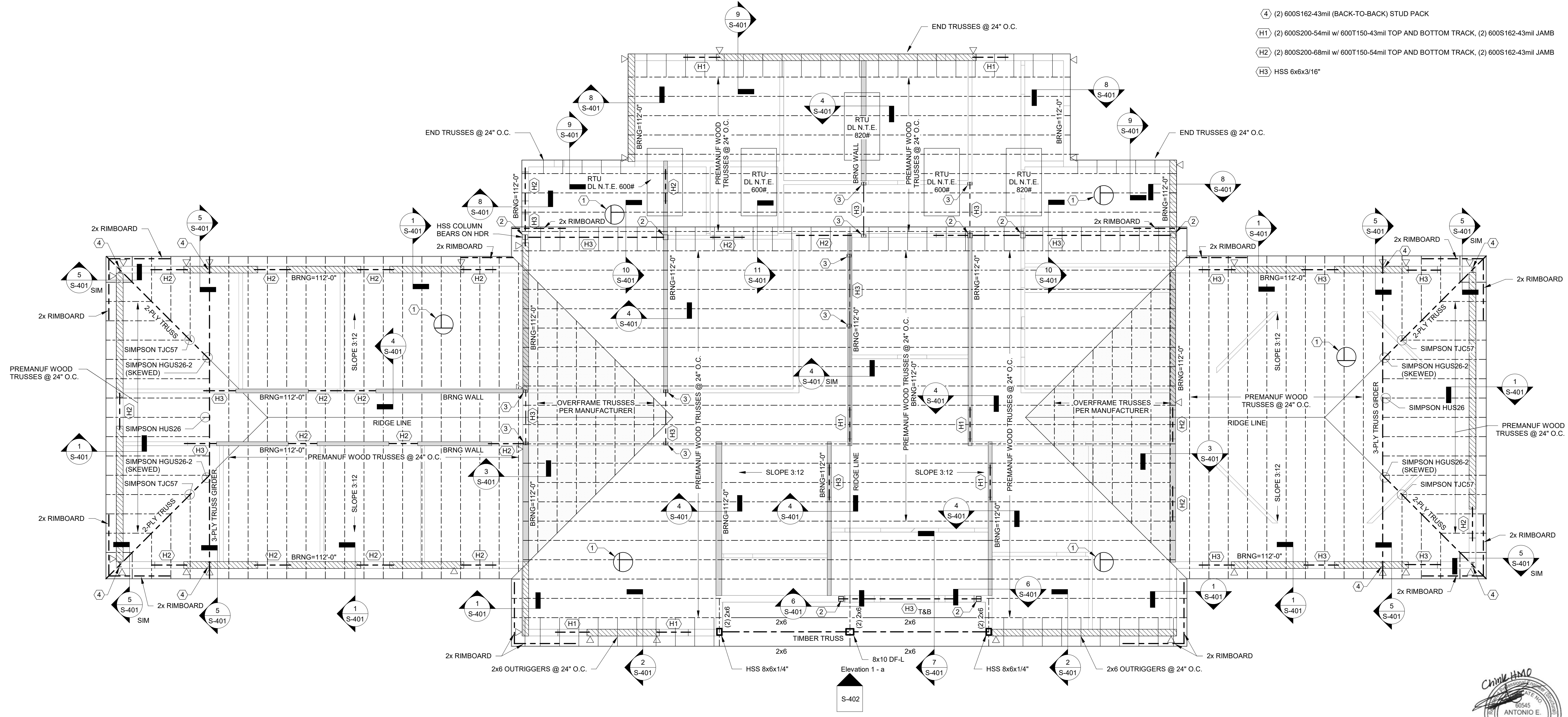
TYPICAL EXTERIOR AND BEARING WALL: 600S162-43mil @ 16" O.C.

△ SIMPSON SHDU4 FASTENED TO (2) 600S162-43mil, 50ksi, (BACK TO BACK), w/ 5/8" DIA TH. ROD, EPOXY GROUT SIMPSON SET-XP, EMBED 10" MIN

▨ SHEAR WALLS: 7/16" OSB SHEATHING ON ONE FACE w/ #10 TEK SCREWS @ 6" O.C. EDGES / 12" O.C. FIELD. ALL SHEATHING EDGES BLOCKED. SILL PLATE ANCHORAGE: 5/8" DIA. AB @ 32" O.C. w/ 3x3x1/4" WASHERS

KEYED NOTES

- ① 19/32" OSB SHEATHING w/ 10d x 3" COMMON NAILS @ 6" O.C. EDGES / 12" O.C. FIELD, BLOCK ALL SHEATHING EDGES
- ② HSS 6x6x3/16" COLUMN
- ③ (2) 600S162-43mil (BOXED) STUD PACK
- ④ (2) 600S162-43mil (BACK-TO-BACK) STUD PACK
- (H1) (2) 600S200-54mil w/ 600T150-43mil TOP AND BOTTOM TRACK, (2) 600S162-43mil JAMB
- (H2) (2) 800S200-68mil w/ 600T150-54mil TOP AND BOTTOM TRACK, (2) 600S162-43mil JAMB
- (H3) HSS 6x6x3/16"



1 Roof Framing Plan
3/16" = 1'-0"

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SHEET TITLE: **Roof Framing Plan**
PROJECT NAME: **Chinle HMO Building**
Navajo Housing Authority

Revisions	Mark	Date	Description

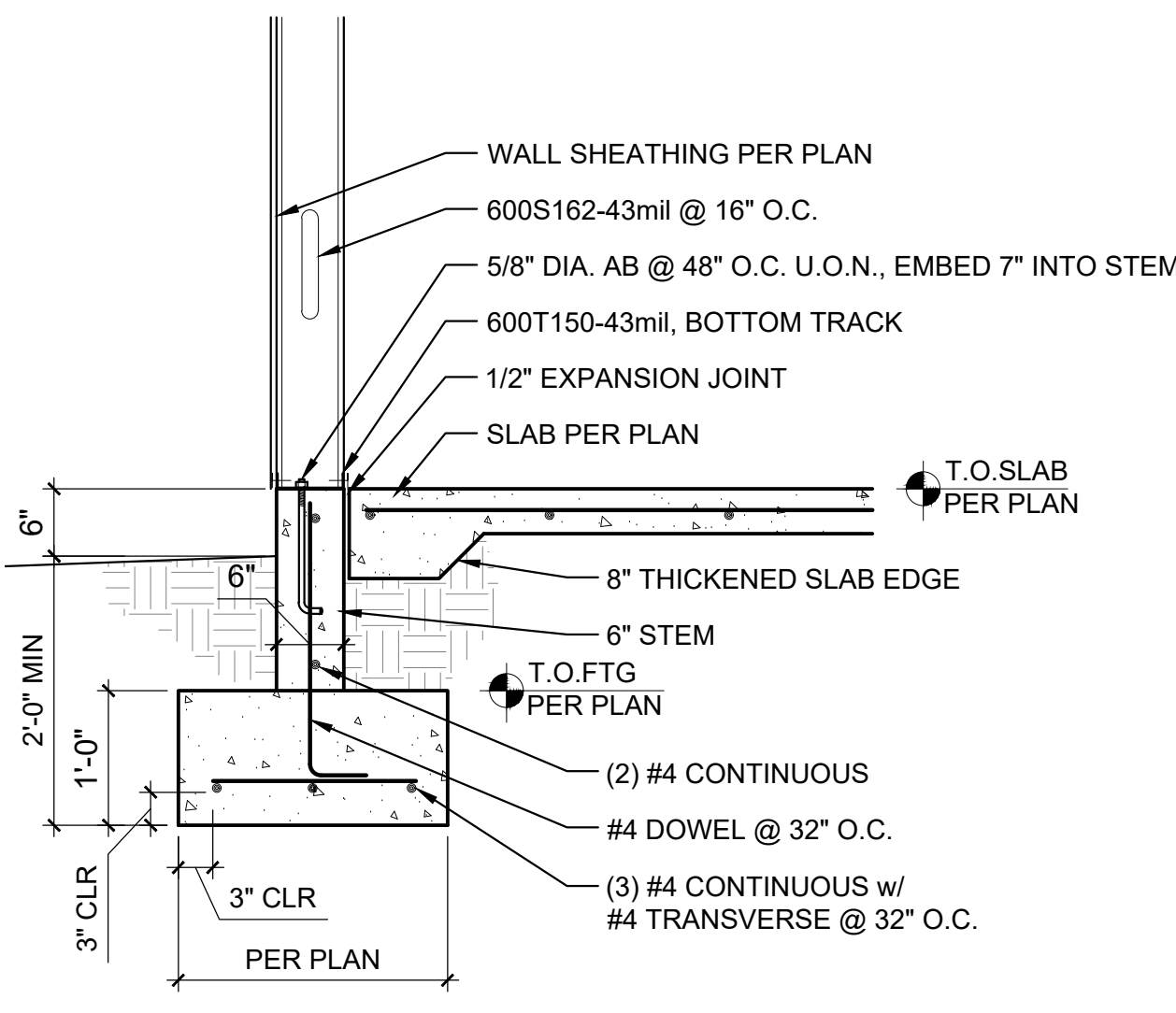


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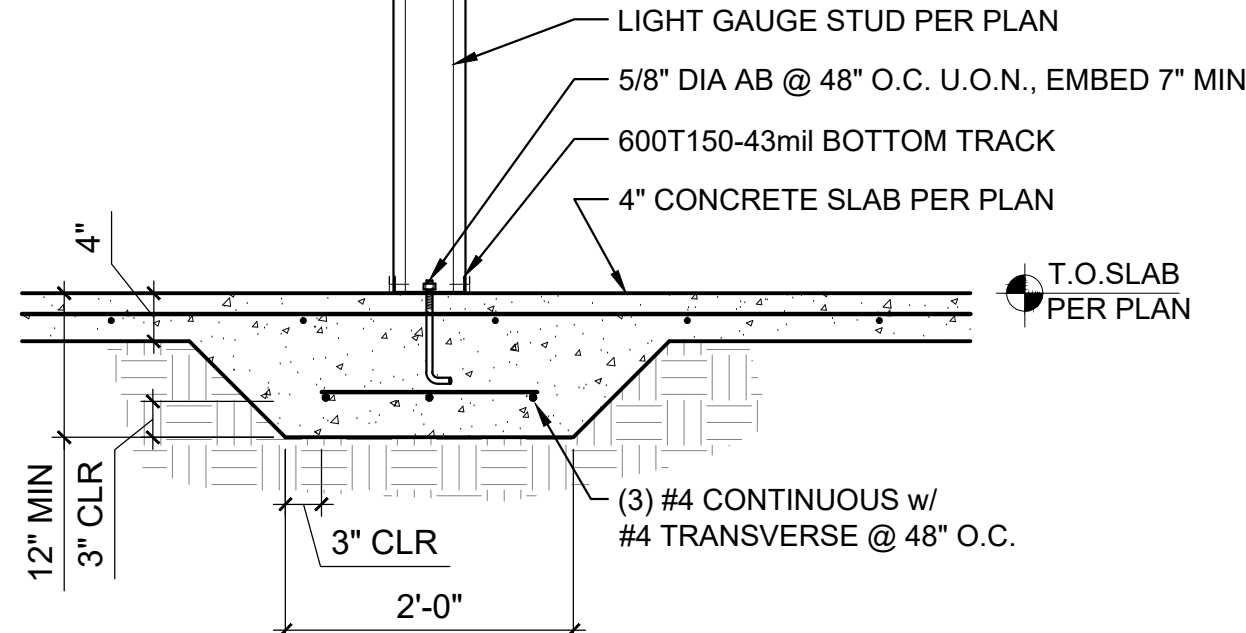
PROJECT NUMBER: NHA Chinle
FILE: NHA Chinle HMO.rvt
DRWN. BY: JAR
DESIGNED BY: AEL / JJS
DATE: 5/28/2021
SHEET OF
S-201

DATE PLOTTED: 5/28/2021 5:28:51 PM

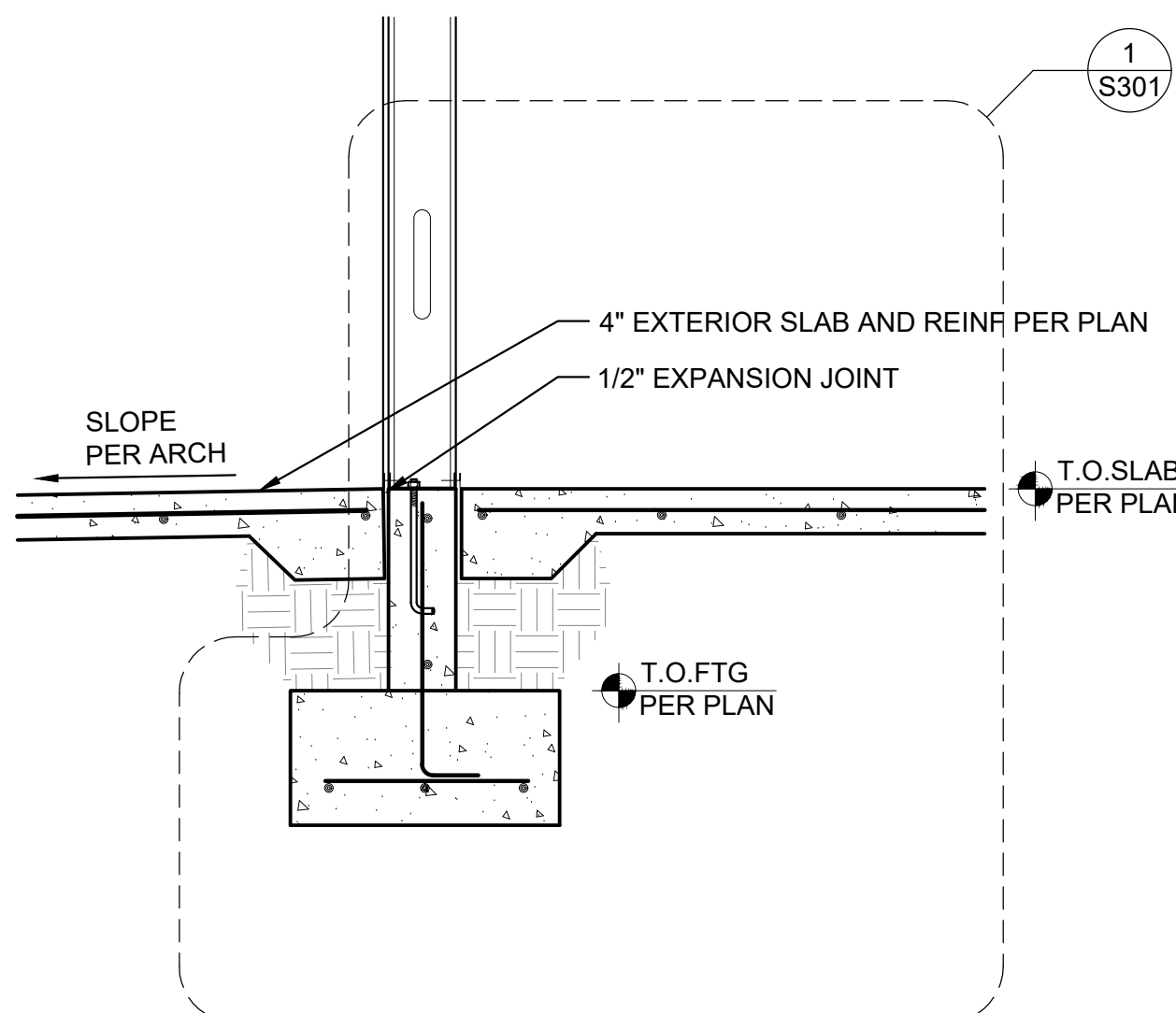
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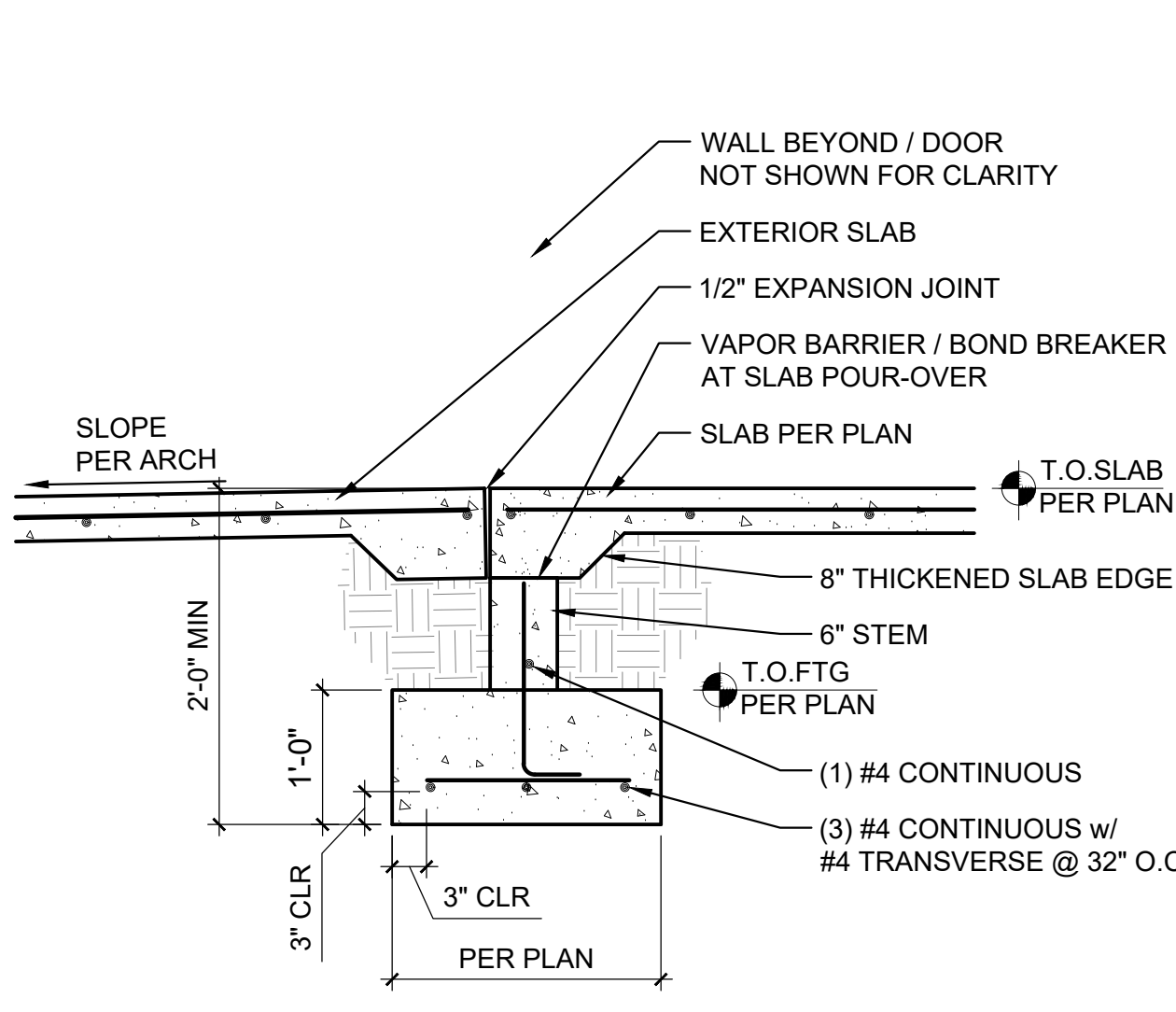
1 STEM WALL ON CONTINUOUS STRIP FOOTING
S301/ 3/4" = 1'-0"



2 INTERIOR THICKENED SLAB
S301/ 3/4" = 1'-0"

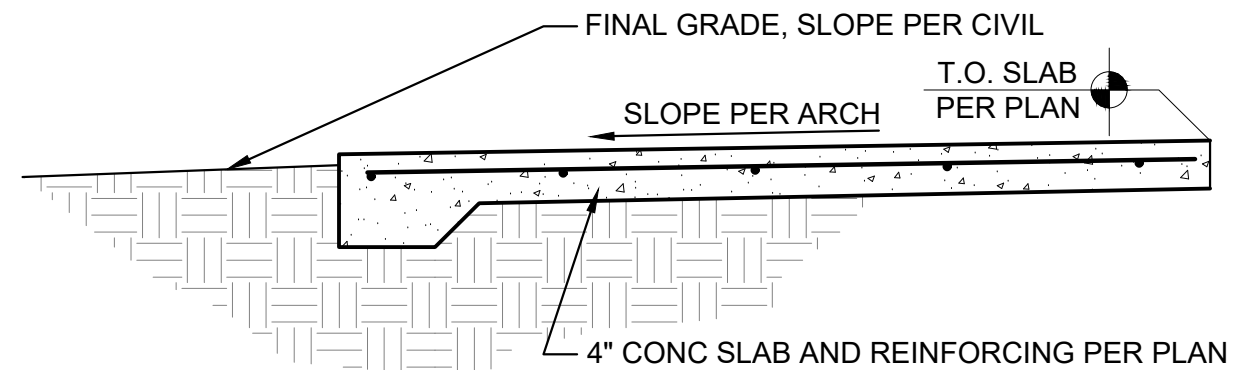


3 STEM WALL ON CONT. STRIP FTG w/ EXTERIOR SLAB
S301/ 3/4" = 1'-0"

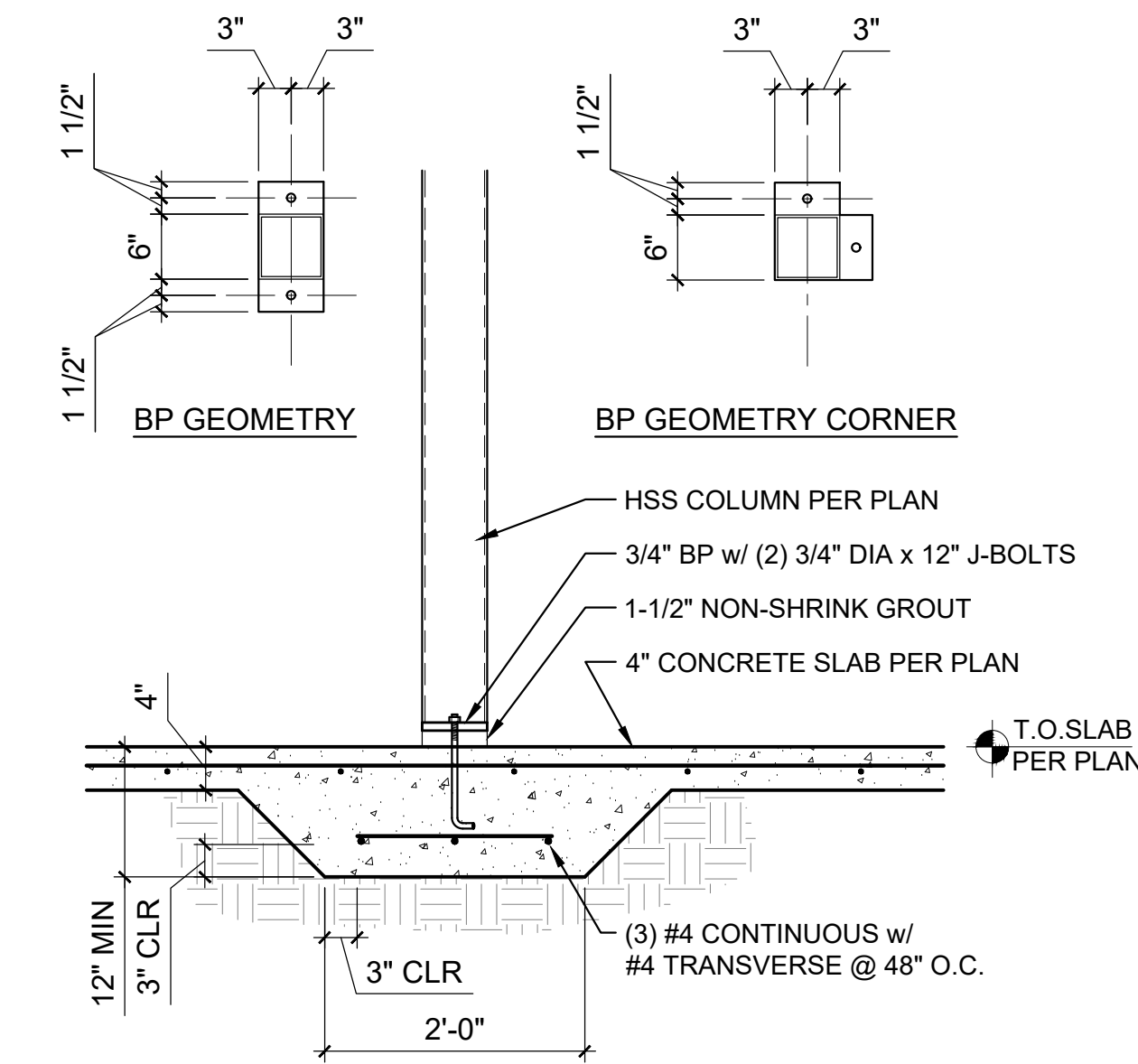


4 SLAB OVER STEM ON CONT. STRIP FTG AT OPENINGS
S301/ 3/4" = 1'-0"

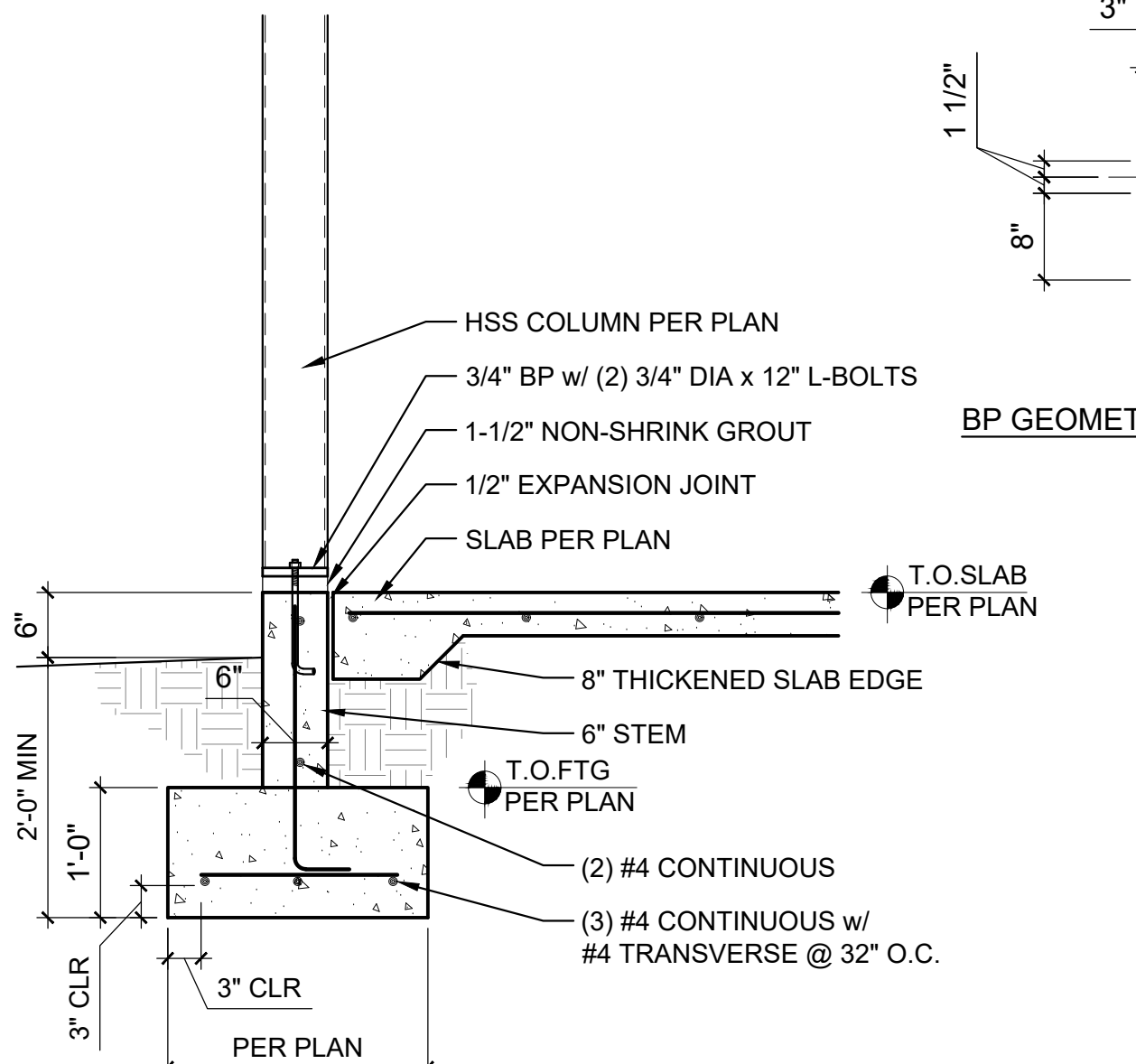
C



5 THICKENED SLAB EDGE
S301/ 3/4" = 1'-0"



6 COLUMN AT INTERIOR THICKENED SLAB
S301/ 3/4" = 1'-0"



7 COLUMN ON STEM WALL
S301/ 3/4" = 1'-0"

B

A

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C

B

A

SHEET TITLE:
Foundation Details
PROJECT NAME:
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Navajo Housing Authority

Revisions	Mark	Date	Description

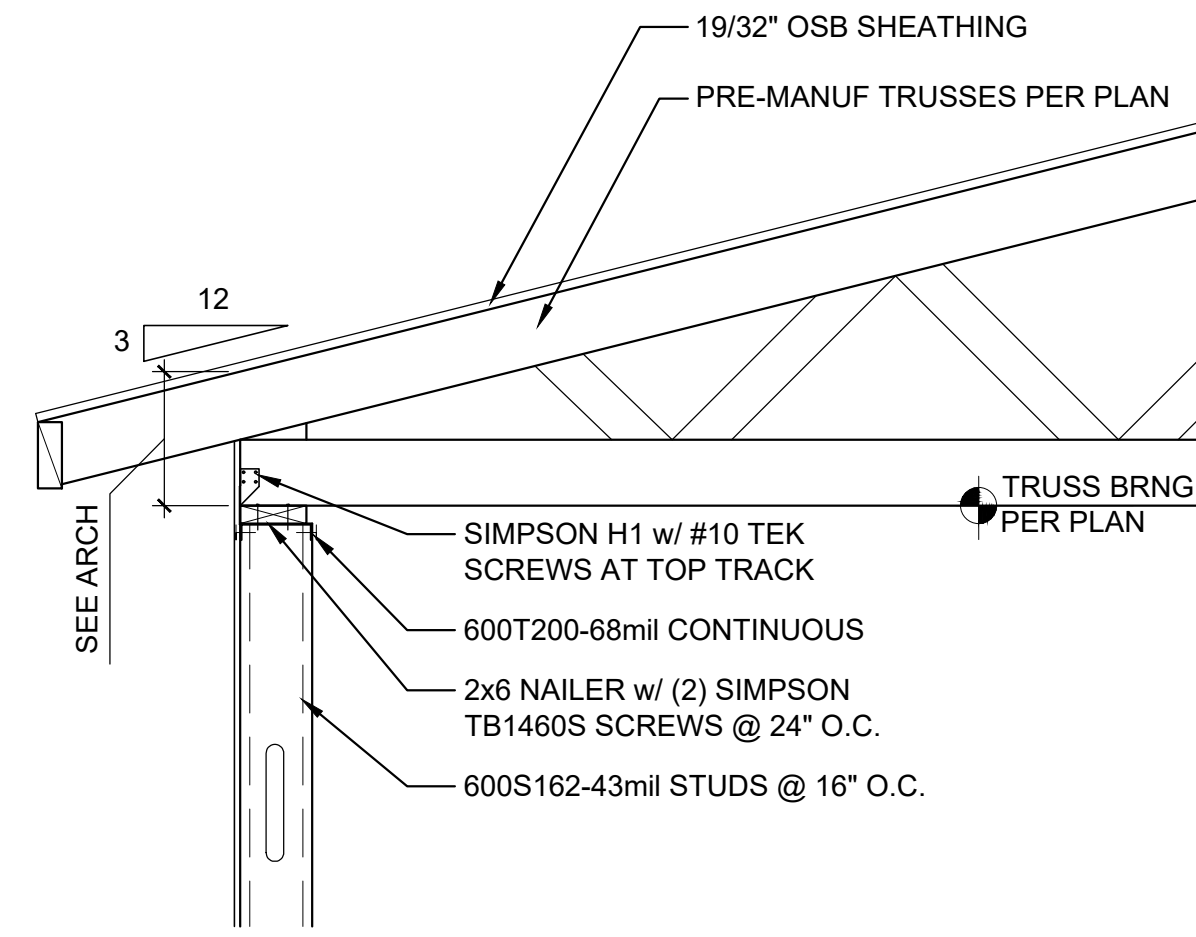


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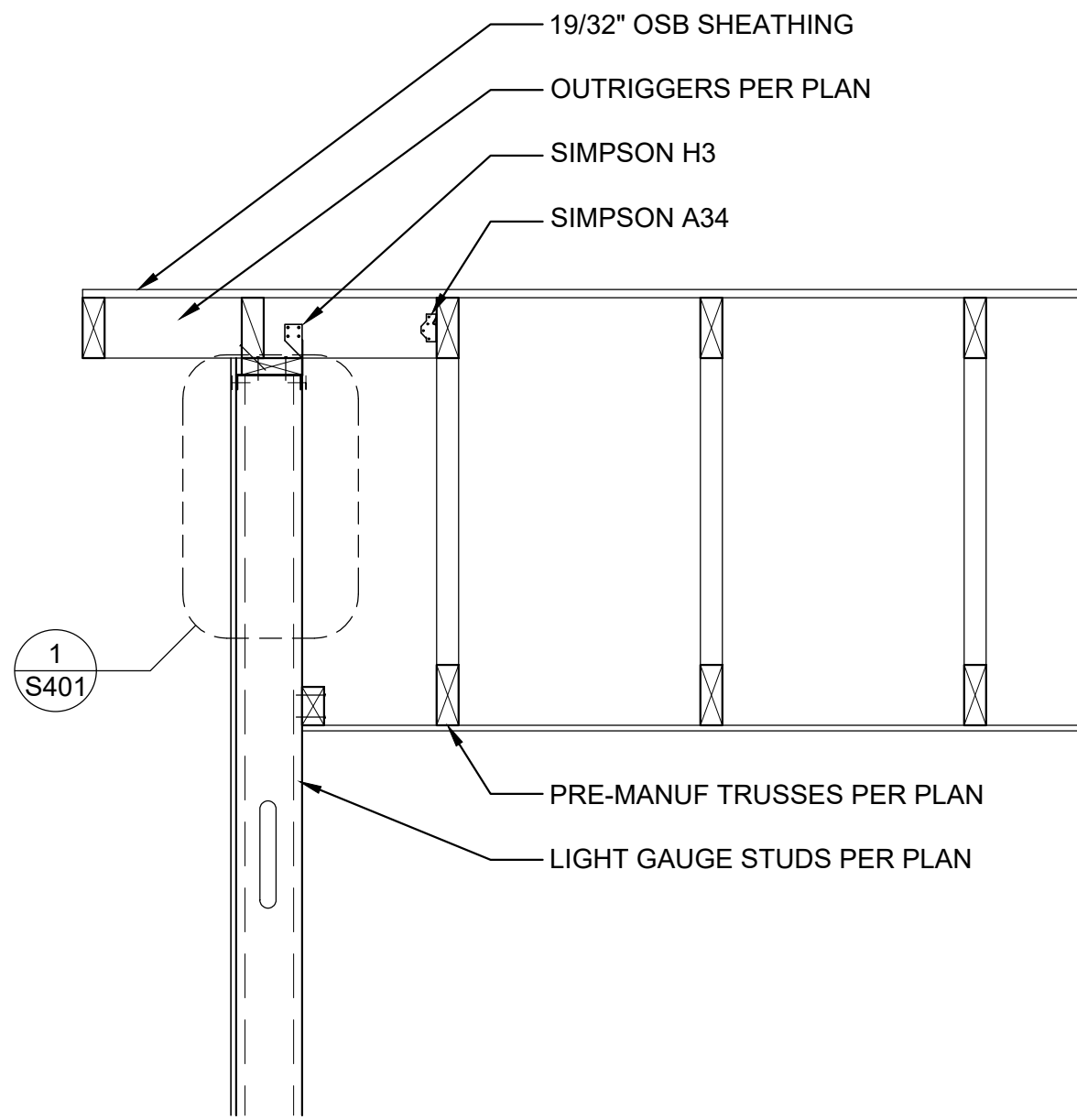


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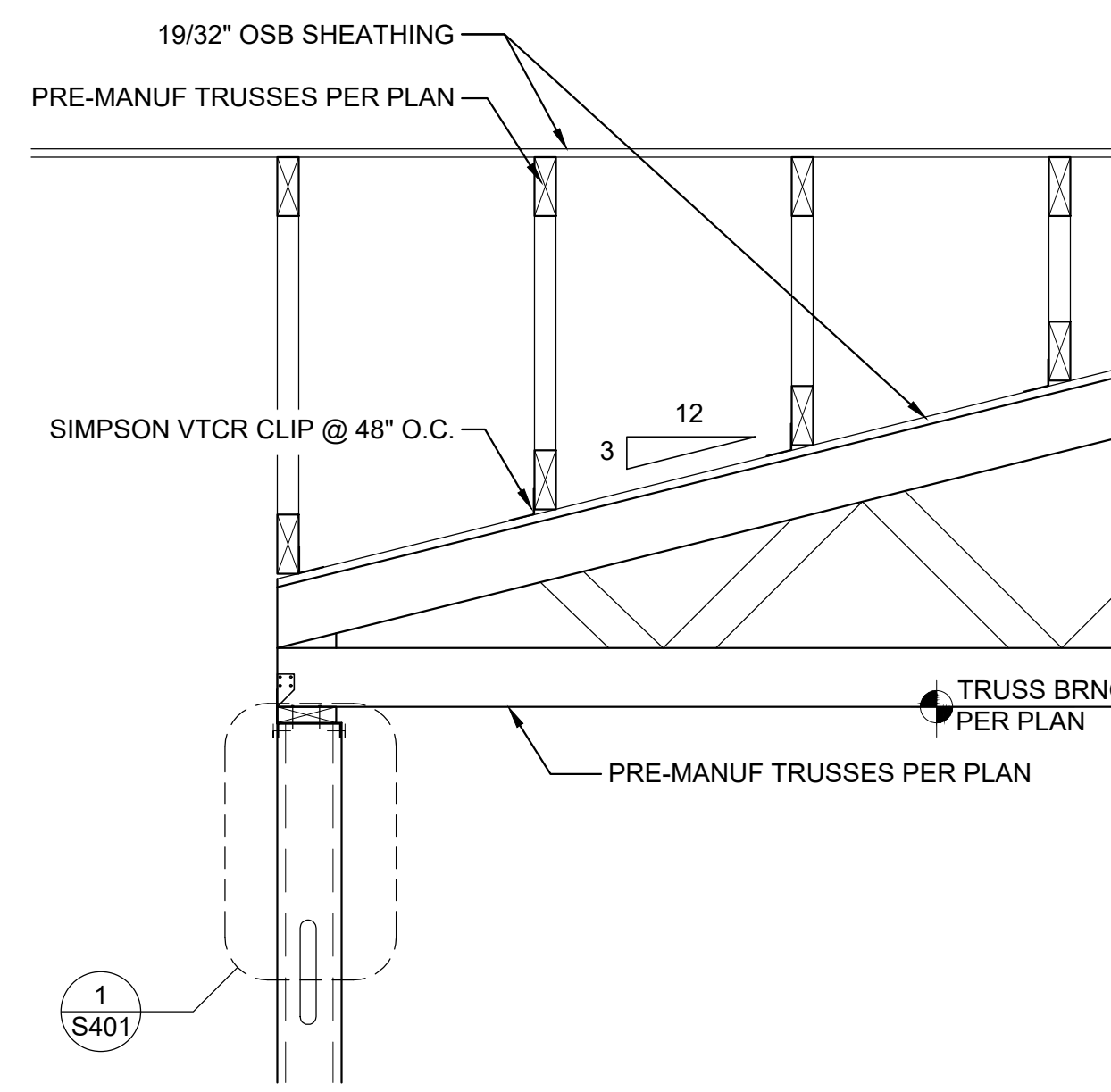
PROJECT NUMBER: NHA Chinle
FILE: NHA Chinle HMO.rvt
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DATE: 5/28/2021
SHEET OF
S-301



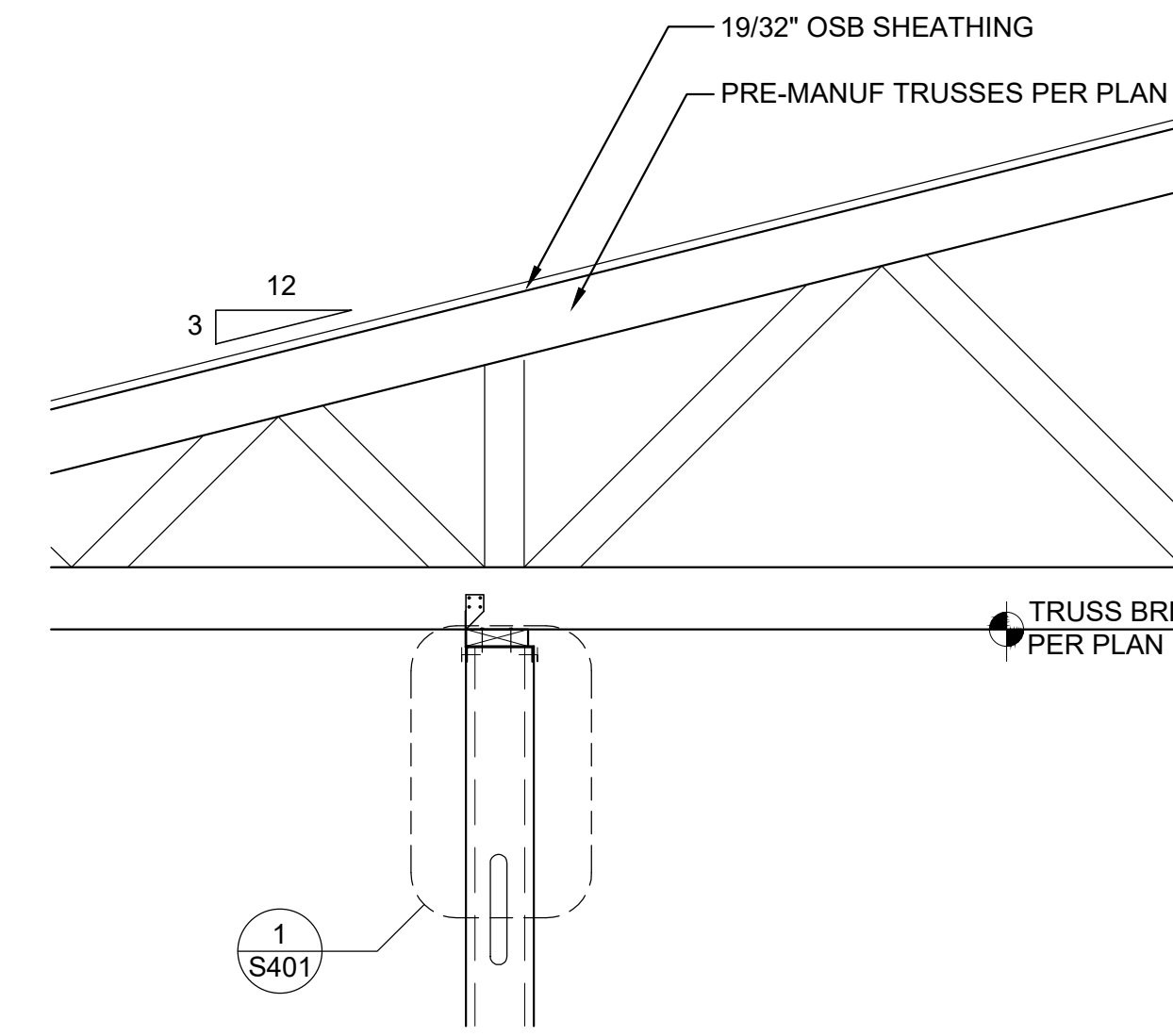
1 ROOF TRUSSES PERPENDICULAR TO EXT. WALL
S401/ 3/4" = 1'-0"



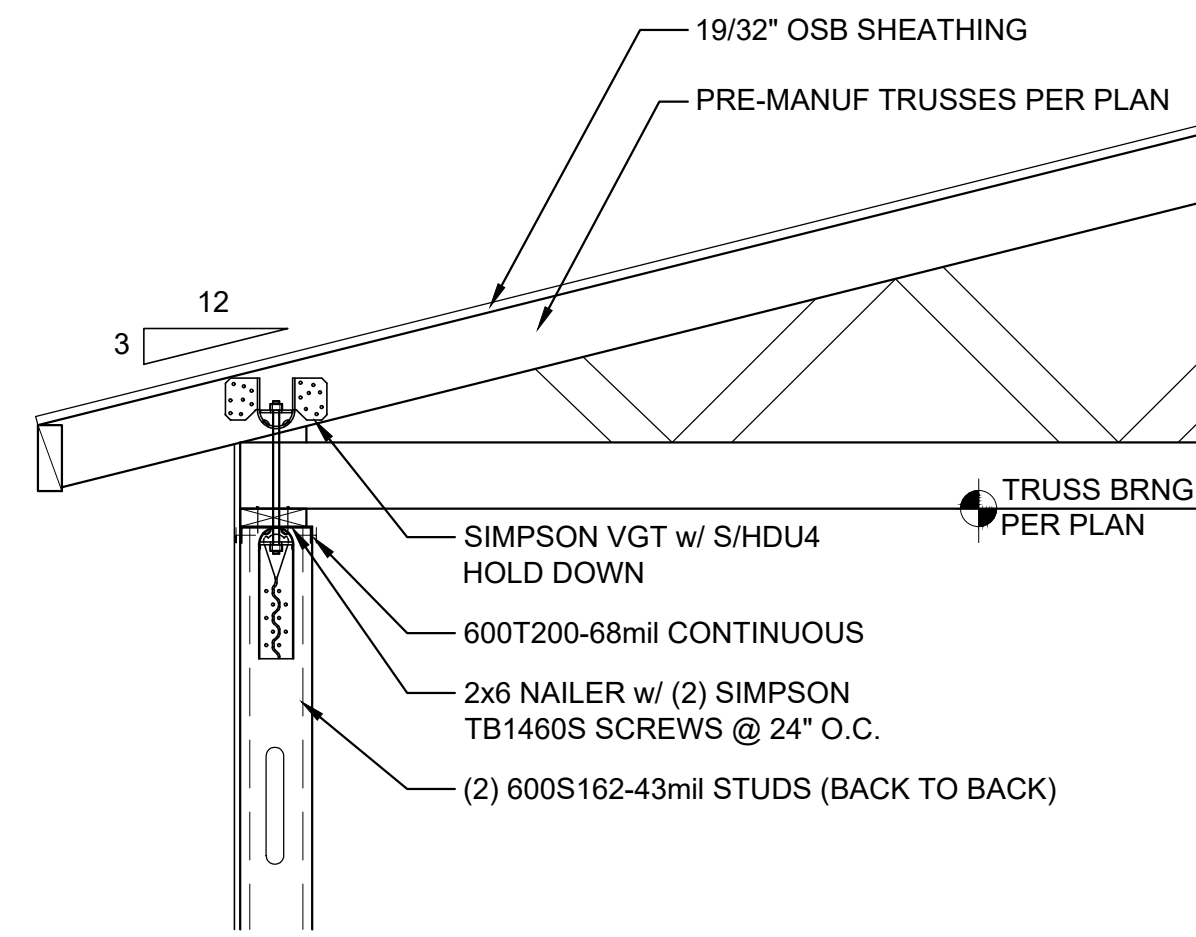
2 ROOF TRUSSES PARALLEL TO EXT WALL
S401/ 3/4" = 1'-0"



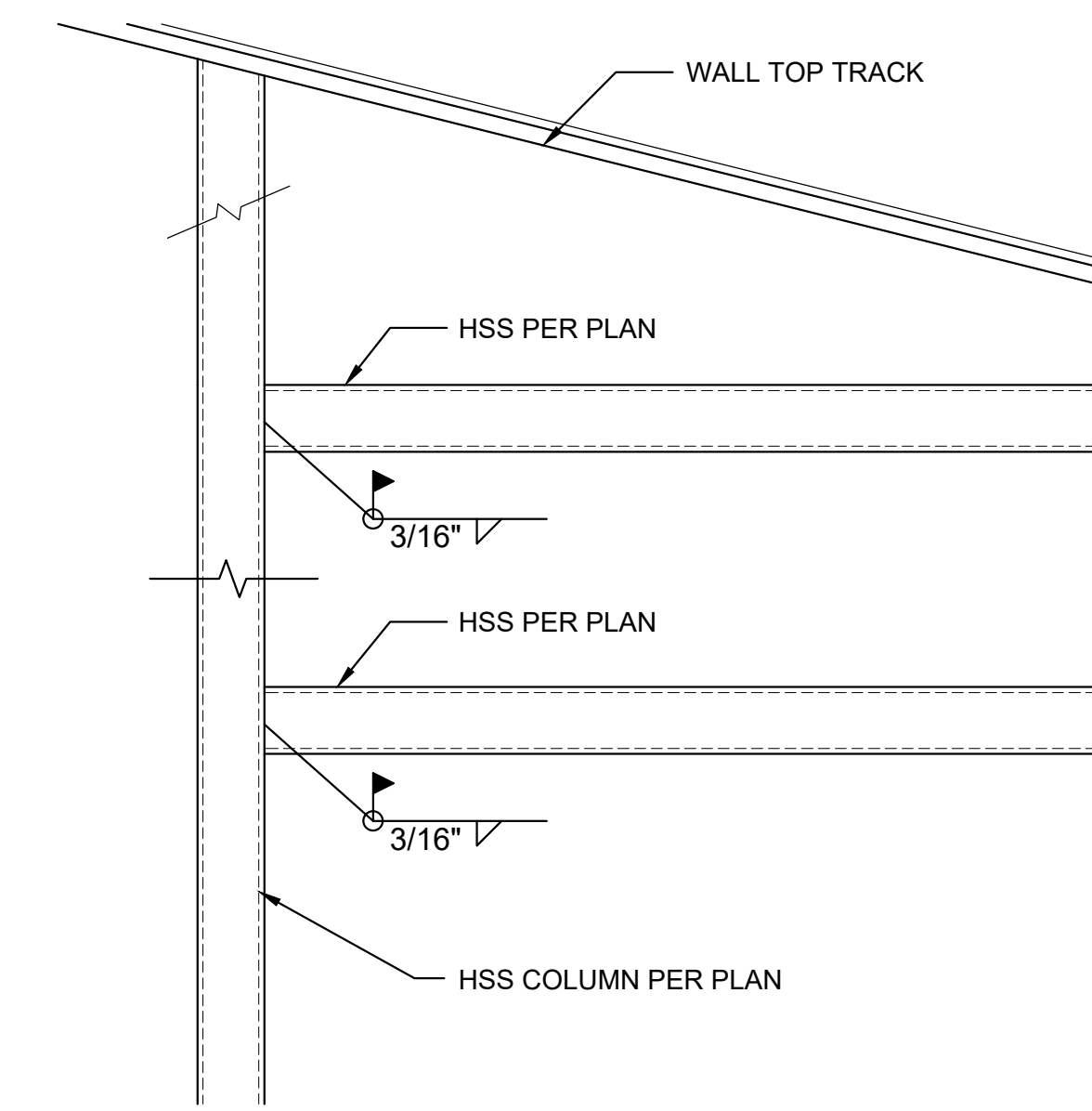
3 ROOF OVERFRAME TRUSSES TO INT BEARING WALL
S401/ 3/4" = 1'-0"



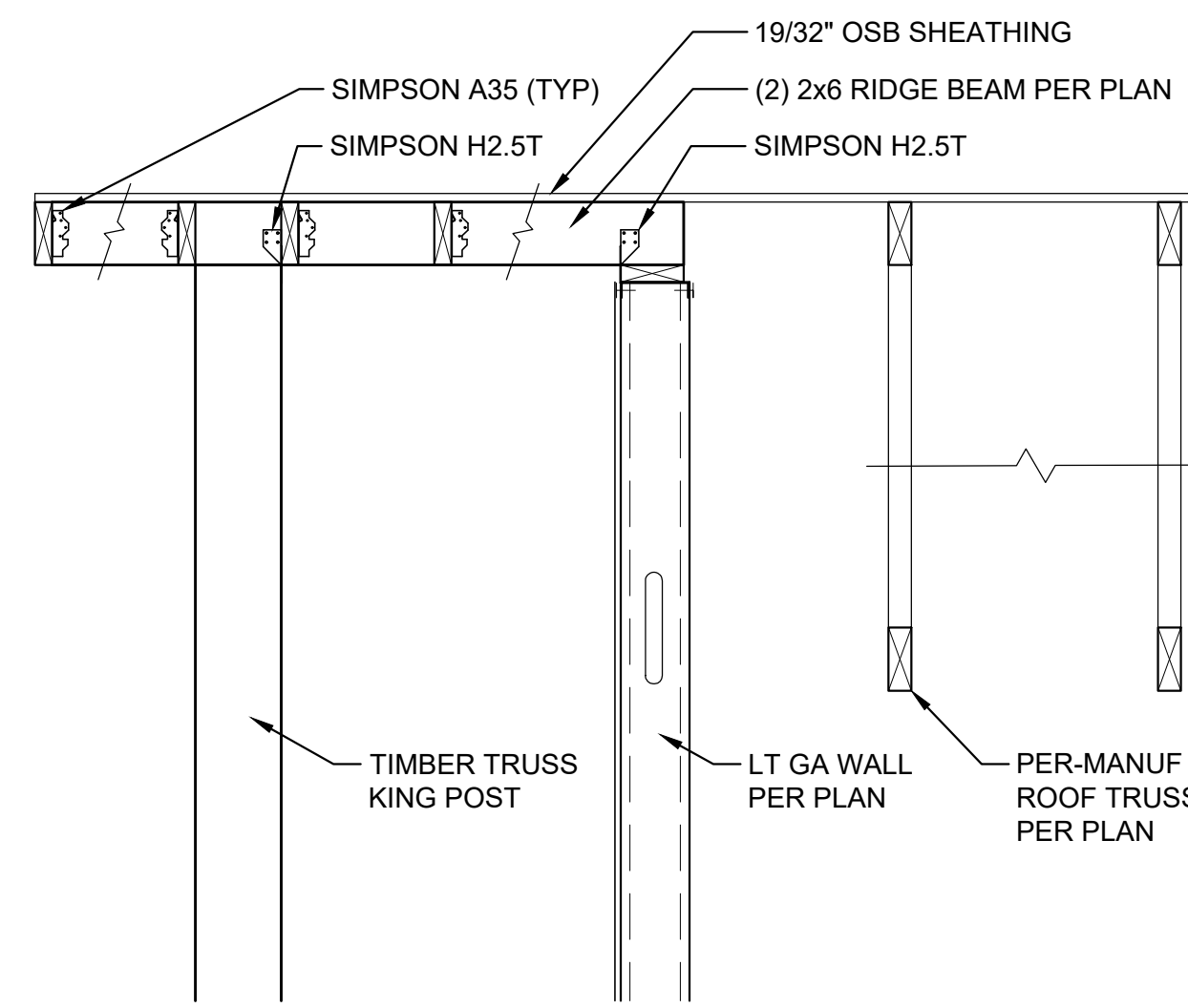
4 ROOF TRUSSES BEARING AT INTERIOR WALL
S401/ 3/4" = 1'-0"



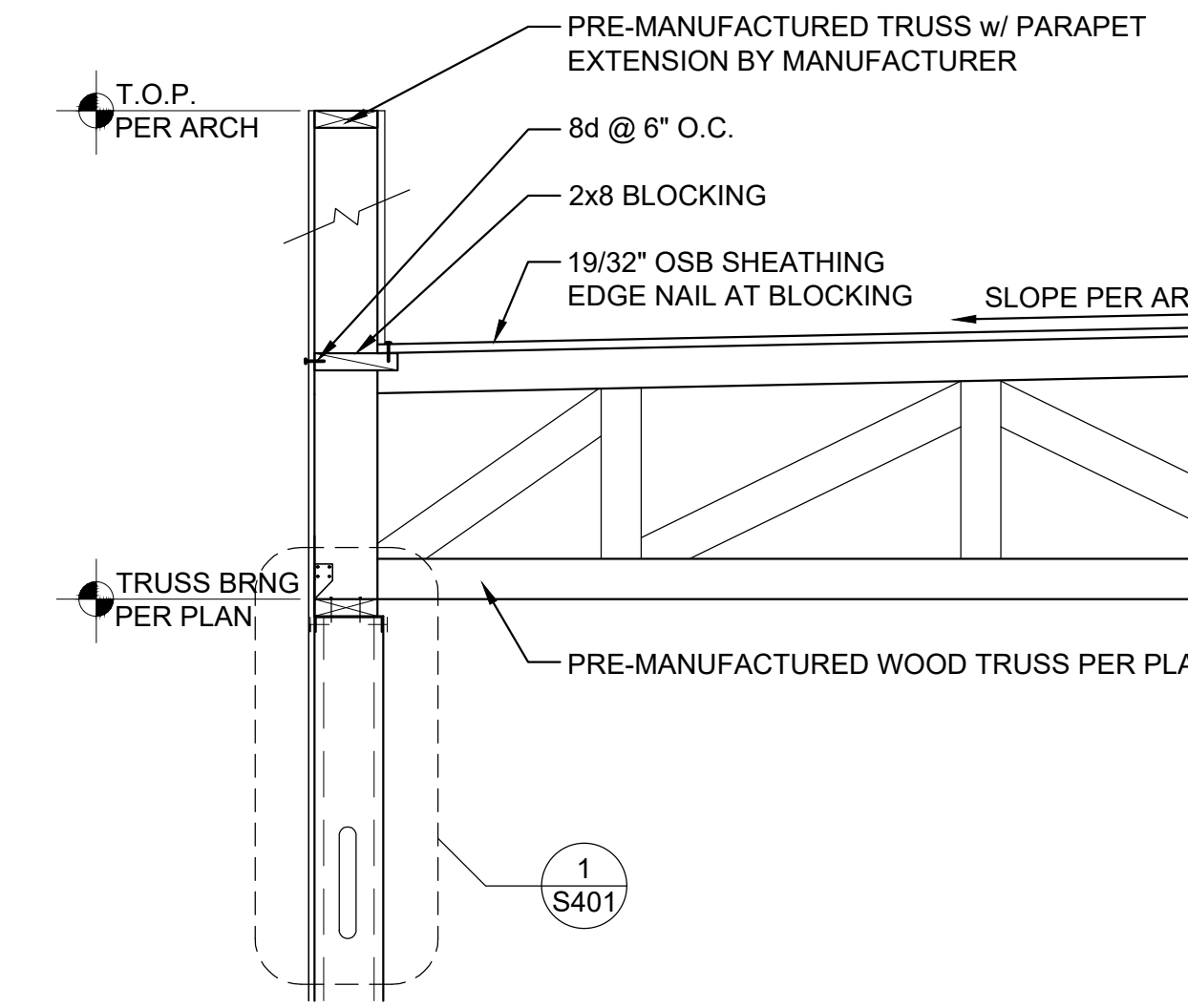
5 TRUSS GIRDER AT STUD PACK
S401/ 3/4" = 1'-0"



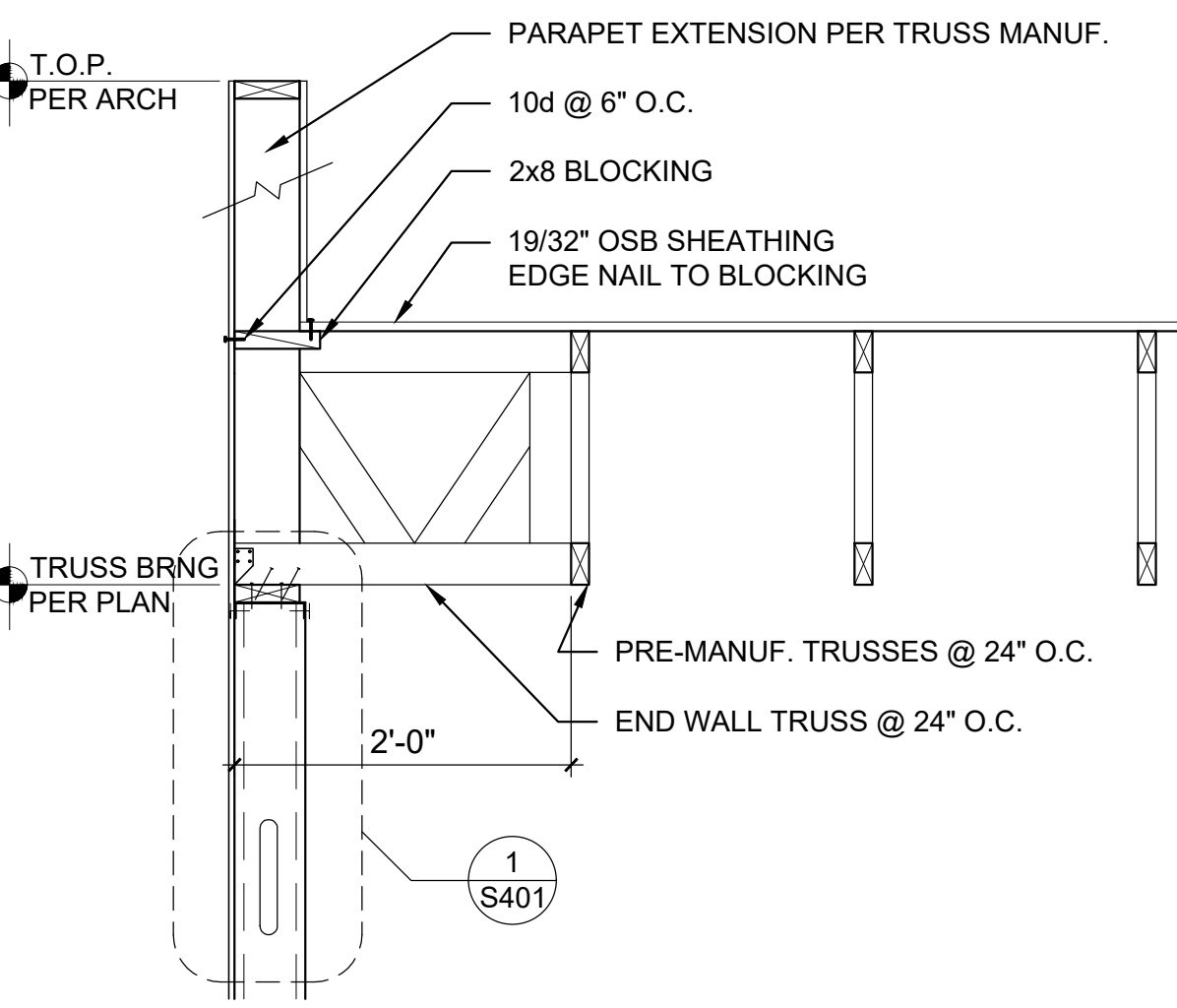
6 DOUBLE HEADER AT ENTRY
S401/ 3/4" = 1'-0"



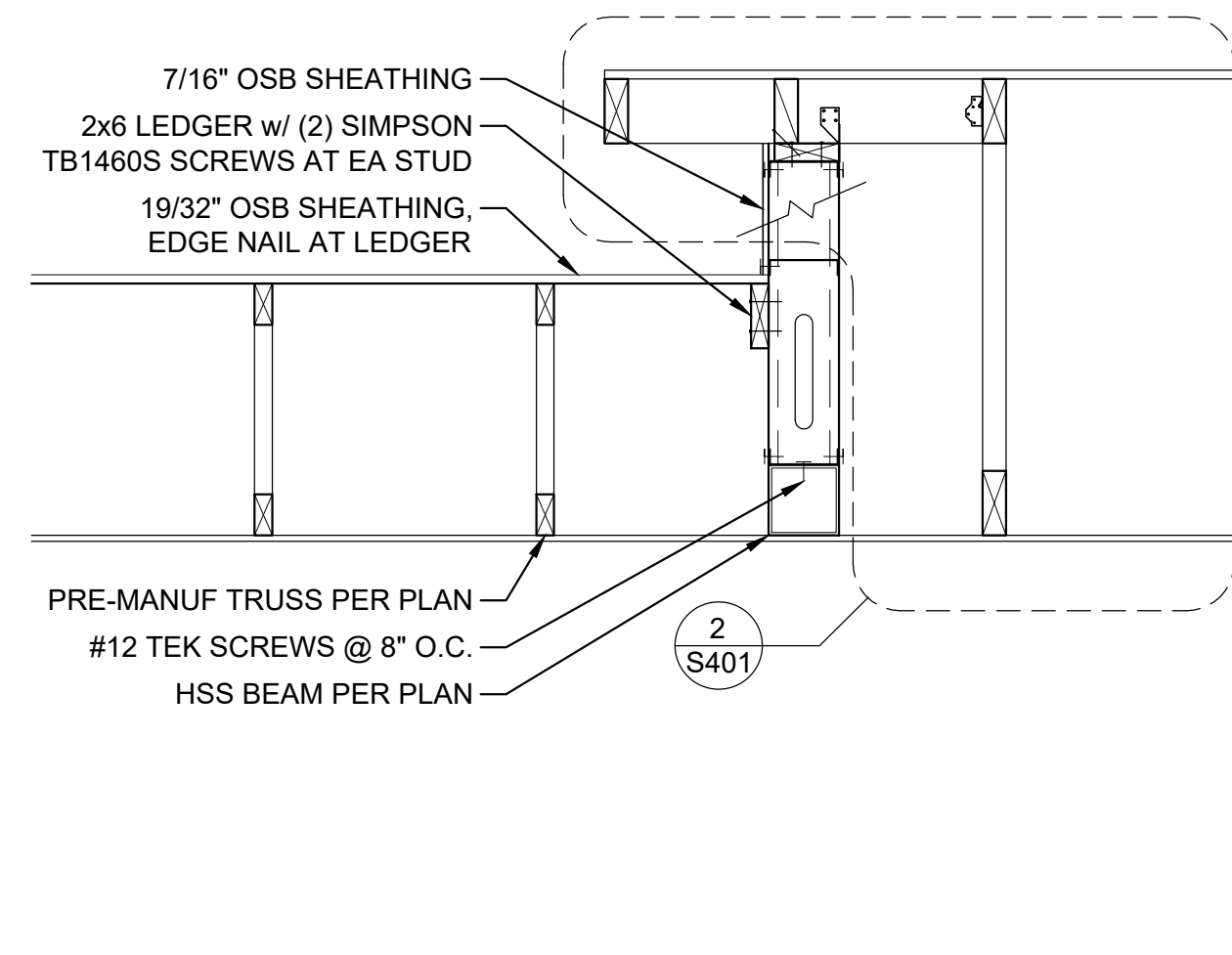
7 ENTRY TRUSS FRAMING
S401/ 3/4" = 1'-0"



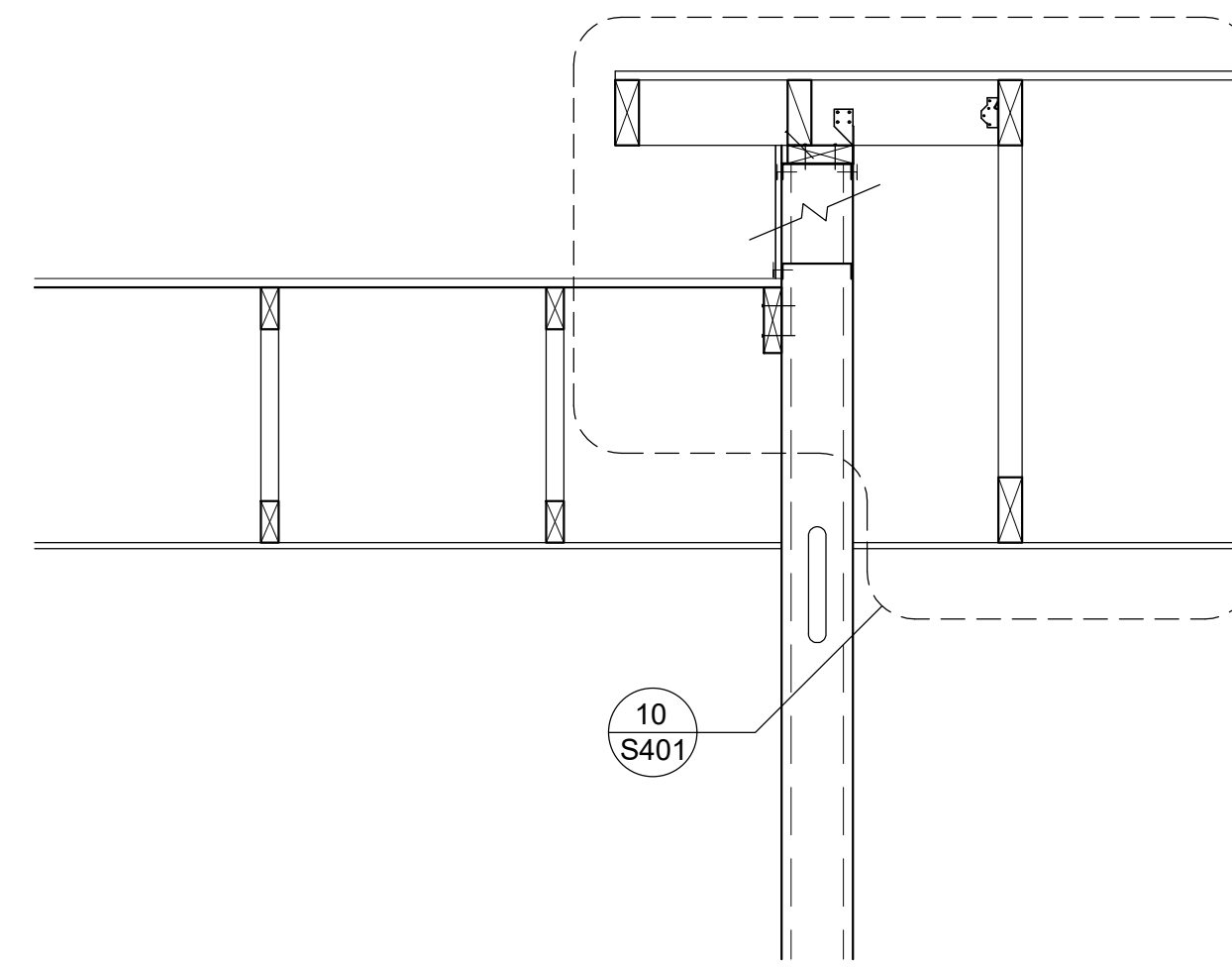
8 FLAT TRUSSES AT BEARING
S401/ 3/4" = 1'-0"



9 FLAT TRUSSES PARALLEL TO END WALL
S401/ 3/4" = 1'-0"



10 END WALL AT ROOF BEAM
S401/ 3/4" = 1'-0"



11 ROOF CHANGE AT END WALL
S401/ 3/4" = 1'-0"

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SHEET TITLE:
Framing Details

PROJECT NAME:
Chinle HMO Building
Navajo Housing Authority

Revisions	Mark	Date	Description



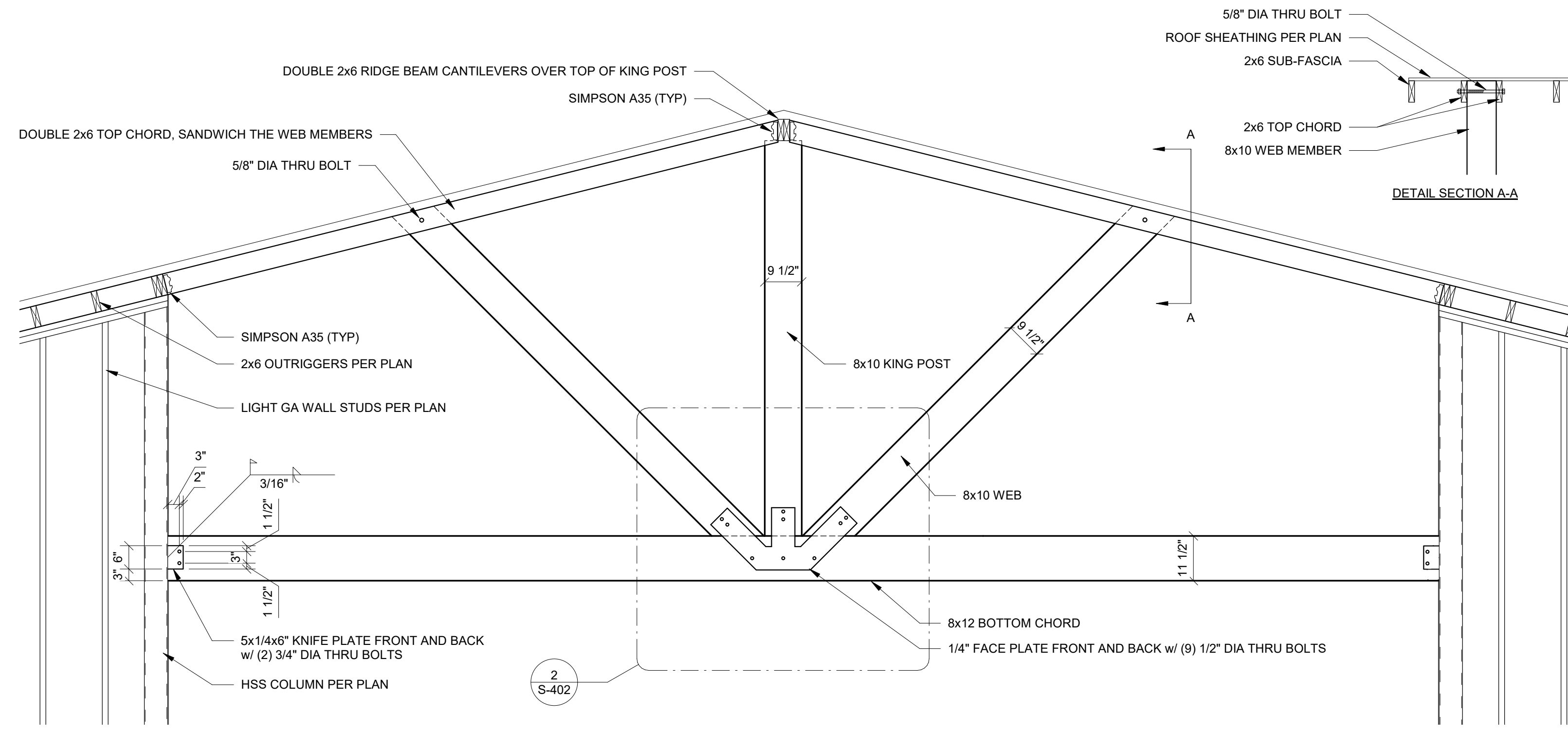
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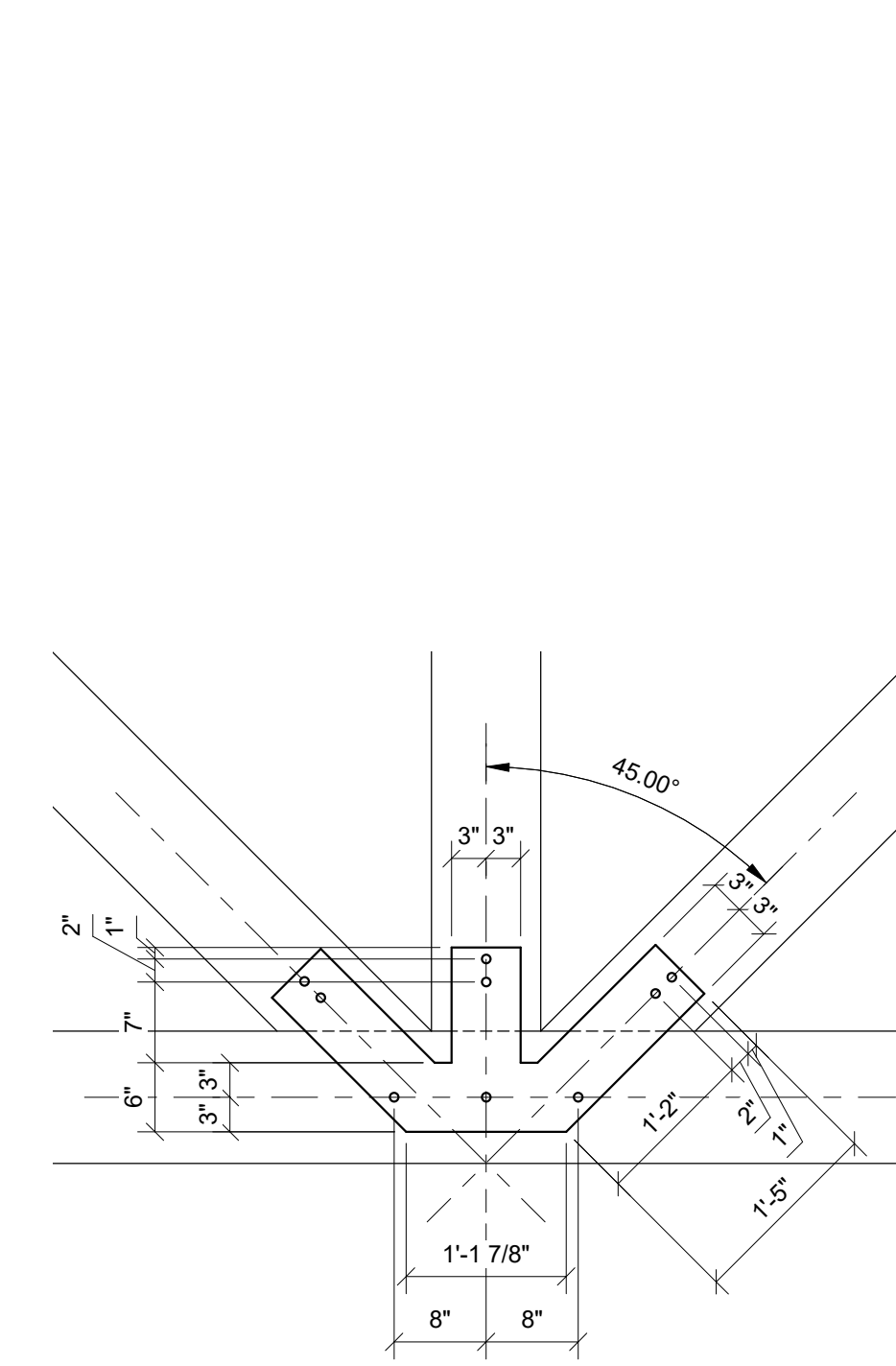
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FILE: NHA Chinle HMO.rvt
DRWN. BY: JAR
CHKD BY: AEL / JJS
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SHEET OF
S-401



1 Elevation 1 - a
1/2" = 1'-0"



2 Elevation 1 - a - Callout 1
3/4" = 1'-0"



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PROJECT NUMBER: NHA Chinle
 FILE: NHA Chinle HMO.rvt
 DRWN. BY: Author
 DESIGNED BY: Checker
 DATE: 5/28/2021

SHEET OF
S-402

WALL TYPE LEGEND	
MARK:	DESCRIPTION:
W1	6" METAL STUDS WITH RIGID (R-21 min.) INSULATION, 7/16" STRUCTURAL GRADE SHEATHING, VAPOR BARRIER, 1" RIGID INSULATION (R-5 min.) BOARD, STUCCO, 5/8" TYPE 'X' GYPSUM BOARD, TAPED, TEXTURED & PAINTED, AT INTERIOR. TERMINATE AT 10' A.F.F.
W2	6" METAL STUDS WITH 5/8" TYPE 'X' GYPSUM BOARD TO EACH SIDE. MOISTURE / MOLD RESISTANT AT WET AREAS. TAPED, TEXTURED & PAINTED. TERMINATE AT 10' A.F.F.
W2-1Hr	6" METAL STUDS WITH 5/8" TYPE 'X' GYPSUM BOARD TO EACH SIDE. MOISTURE / MOLD RESISTANT AT WETR AREAS. TAPED, TEXTURED & PAINTED. TERMINATE AT ROOF.
W3	3-5/8" METAL STUDS WITH 5/8" TYPE 'X' GYPSUM BOARD TO EACH SIDE. MOISTURE / MOLD RESISTANT AT WET AREAS. TAPED, TEXTURED & PAINTED. TERMINATE AT 10' A.F.F.
W3-1Hr	3-5/8" METAL STUDS WITH 5/8" TYPE 'X' GYPSUM BOARD TO EACH SIDE. MOISTURE / MOLD RESISTANT AT WET AREAS. TAPED, TEXTURED & PAINTED. TERMINATE AT ROOF.
WC	4" METAL STUDS WITH 5/8" TYPE 'X' GYPSUM BOARD TO INTERIOR SIDE. MOISTURE / MOLD RESISTANT AT WET AREAS. TAPED, TEXTURED & PAINTED. TERMINATE AT 10' A.F.F.

NOTE:
 1. ADA REQUIRES DOORS TO HAVE A CLEARANCE WIDTH OF 32" AND 5 LBS. OR LESS TO OPEN. CLEARANCE INCLUDES PUSH BAR.
 2. ADA REQUIRES MANUAL DOOR CLOSERS TO BE A MAX OF 5 LBS. OR LESS, UNLESS AUTOMATED. TYP.
 3. ADA REQUIRES 12" CLEARANCE ON LATCH SIDE OF DOOR, DISREGARD IF AUTOMATIC DOOR.

GENERAL NOTES

- A. NEW CONSTRUCTION.
- B. ALL DIMENSIONS ARE TO FACE OF STUD, CENTERLINE OF DOORS AND WINDOWS, UNLESS NOTED OTHERWISE.
- C. ALL FLOOR TRANSITIONS TO BE EQUAL TO OR LESS THAN 1/2".

KEYED NOTES

- 3.8 033000 CAST-IN-PLACE CONCRETE, FLOOR SLAB. RE: STRUCTURAL.
- 5.6 055123 METAL LADDER, ROOF ACCESS. HEAVY DUTY TUBULAR RAIL ALUMINUM CAGE LADDER, LOW PARAPET ACCESS WITH PLATFORM. O'KEEFE'S, INC. MODEL 533A.
- 10.11 102613 CORNER GUARDS.
- 10.24 104416 FIRE EXTINGUISHER, LARSEN ARCHITECTURAL SERIES AS A REFERENCE.
- 12.19 124813 ENTRANCE FLOOR MATS (5'-0" x 6'-0") AND FRAMES; ROLL-UP (REMOVABLE) RAIL MATS, RESILIENT ENTRANCE MATS AND FRAMES. RECESS FLOOR SLAB AS REQUIRED.
- 27.5 272423 AUDIO-VIDEO DEVICES, LARGE TV MONITORS.

D

C

B

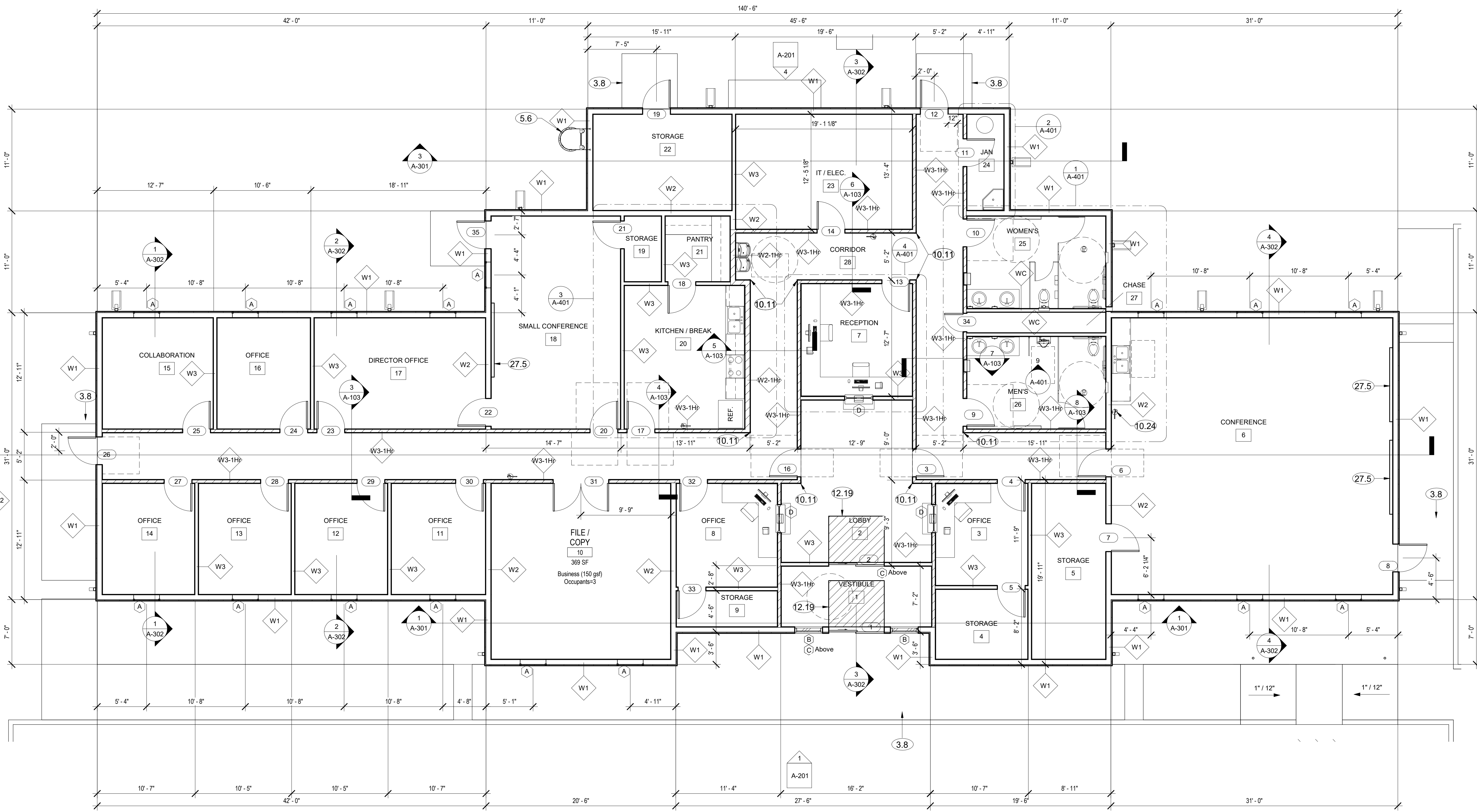
A

D

C

B

A



1 FLOOR PLAN - 5,991 GSF
 3/16" = 1'-0"

SUJINA DESIGN
 + ARCHITECTURE
 100% NATIVE AMERICAN WOMEN OWNED

4411 McLEOD ROAD NE, SUITE A-1
 ALBUQUERQUE, NEW MEXICO 87109
 WWW.SUJINADESIGN.COM
 T: 505-766-6968



ARCHITECT'S STAMP

SHEET TITLE: **FLOOR PLAN**

PROJECT NAME: **Chinle HMO Building**
Navajo Housing Authority

Revisions	Mark	Date	Description

PROJECT NUMBER: NHA Chinle
 FILE: NHA Chinle HMO.rvt
 DRWN. BY: SD+A
 CHKD BY: ES
 DATE: 1/11/2021

SHEET OF
A-101

DATE PLOTTED: 10/28/2021 1:41:19 PM


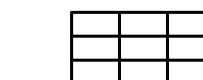

GENERAL NOTES

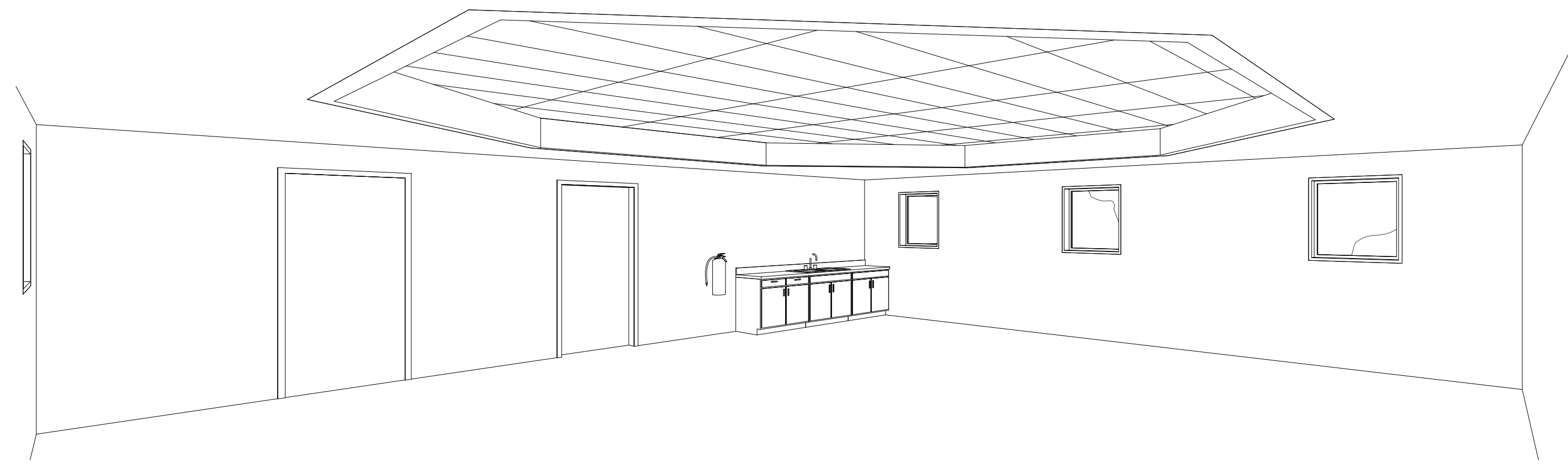
- A. NEW CONSTRUCTION.
- B. ALL OF THE REGISTERS, DIFFUSERS, LIGHTS, ETC. NEED TO BE FLUSHED WITH FINISHED CEILING.
- C. REFERENCE MECHANICAL AND ELECTRICAL SHEETS FOR COORDINATION.
- D. CABLE TRAY TO BE CLEARED OF ANY OBSTRUCTIONS.

KEYED NOTES

- 5.6 055123 METAL LADDER, ROOF ACCESS. HEAVY DUTY TUBULAR RAIL ALUMINUM CAGE LADDER, LOW PARAPET ACCESS WITH PLATFORM. O'KEEFFE'S, INC. MODEL 533A.

LEGEND:

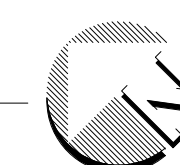
-  G.B.D. = 5/8" TYPE 'X' GYPSUM BOARD, TAPED, TEXTURED & PAINTED.
-  ACT. = 2' x 4' ACOUSTICAL LAY-IN TILE.
-  Clng. Hgt. CEILING HEIGHT, ABOVE FINISH FLOOR, (A.F.F.).



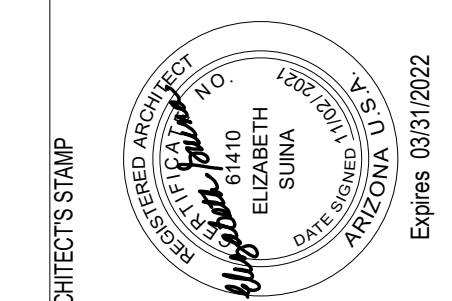
2 3D View @ Conference Rm.



1 CEILING PLAN
3/16" = 1'-0"



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SHEET TITLE:
REFLECTED CEILING PLAN

PROJECT NAME:
Chinle HMO Building
Navajo Housing Authority

Revisions	Mark	Date	Description

PROJECT NUMBER: NHA Chinle
FILE: NHA Chinle HMO.rvt
DRWN. BY: SD+A
CHKD BY: ES
DATE: 1/11/2021

SHEET OF
A-102

GENERAL NOTES

- A. NEW CONSTRUCTION.
- B. ALL OF THE REGISTERS, DIFFUSERS, LIGHTS, ETC. NEED TO BE FLUSHED WITH FINISHED CEILING.
- C. REFERENCE MECHANICAL AND ELECTRICAL SHEETS FOR COORDINATION.
- D. CABLE TRAY TO BE CLEARED OF ANY OBSTRUCTIONS.

KEYED NOTES

- 5.6 055123 METAL LADDER, ROOF ACCESS. HEAVY DUTY TUBULAR RAIL ALUMINUM CAGE LADDER, LOW PARAPET ACCESS WITH PLATFORM. O'KEEFE'S, INC. MODEL 533A.
- 7.14 077226 RIDGE VENTS, CONTINUOUS, PER METAL ROOF SYSTEM MANUFACTURER.

SUJINA DESIGN
 + ARCHITECTURE
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ARCHITECT'S STAMP

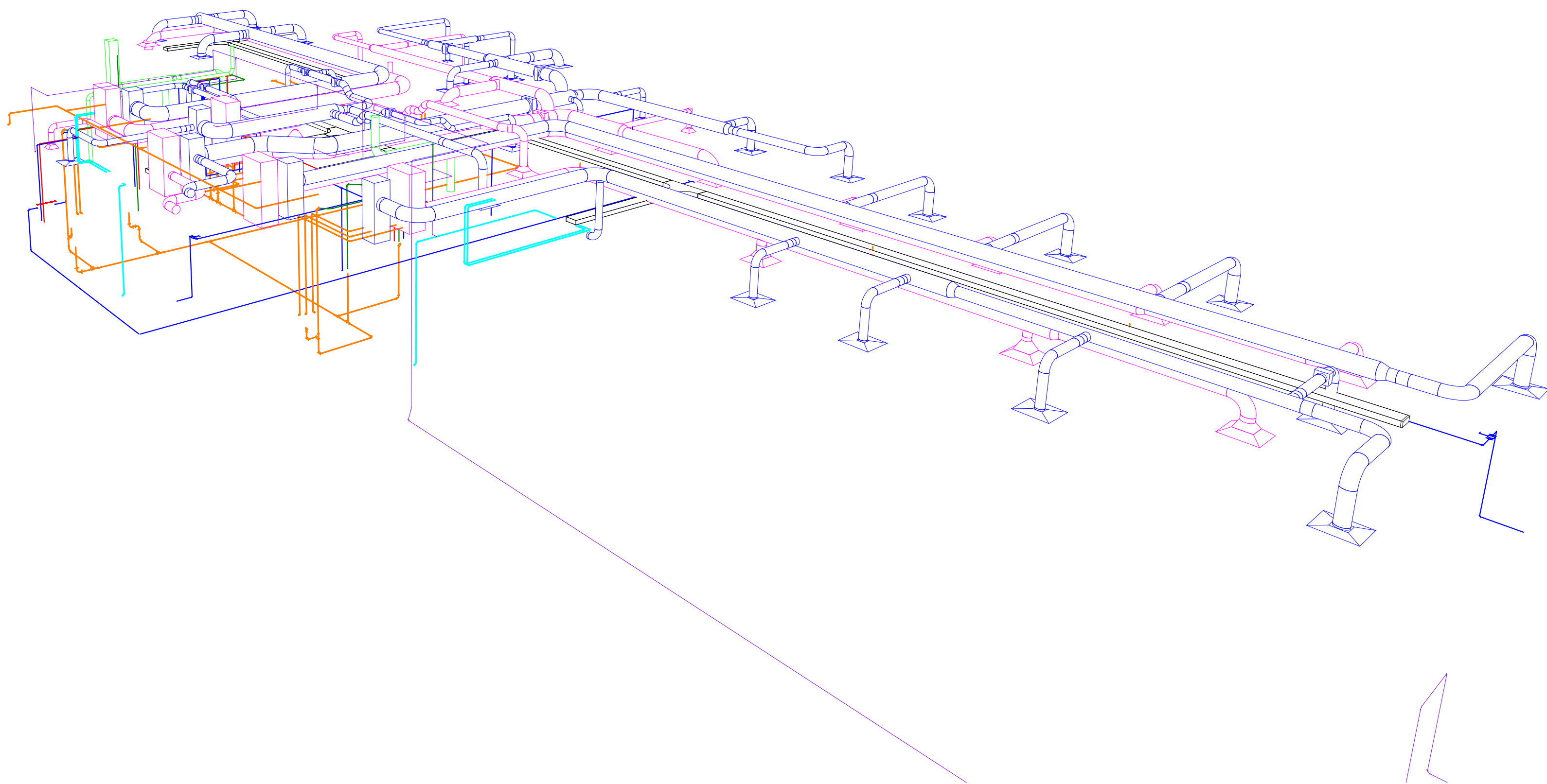
SHEET TITLE:
3D MECHANICAL & CABLE TRAY

PROJECT NAME:
**Chinle HMO Building
 Navajo Housing Authority**

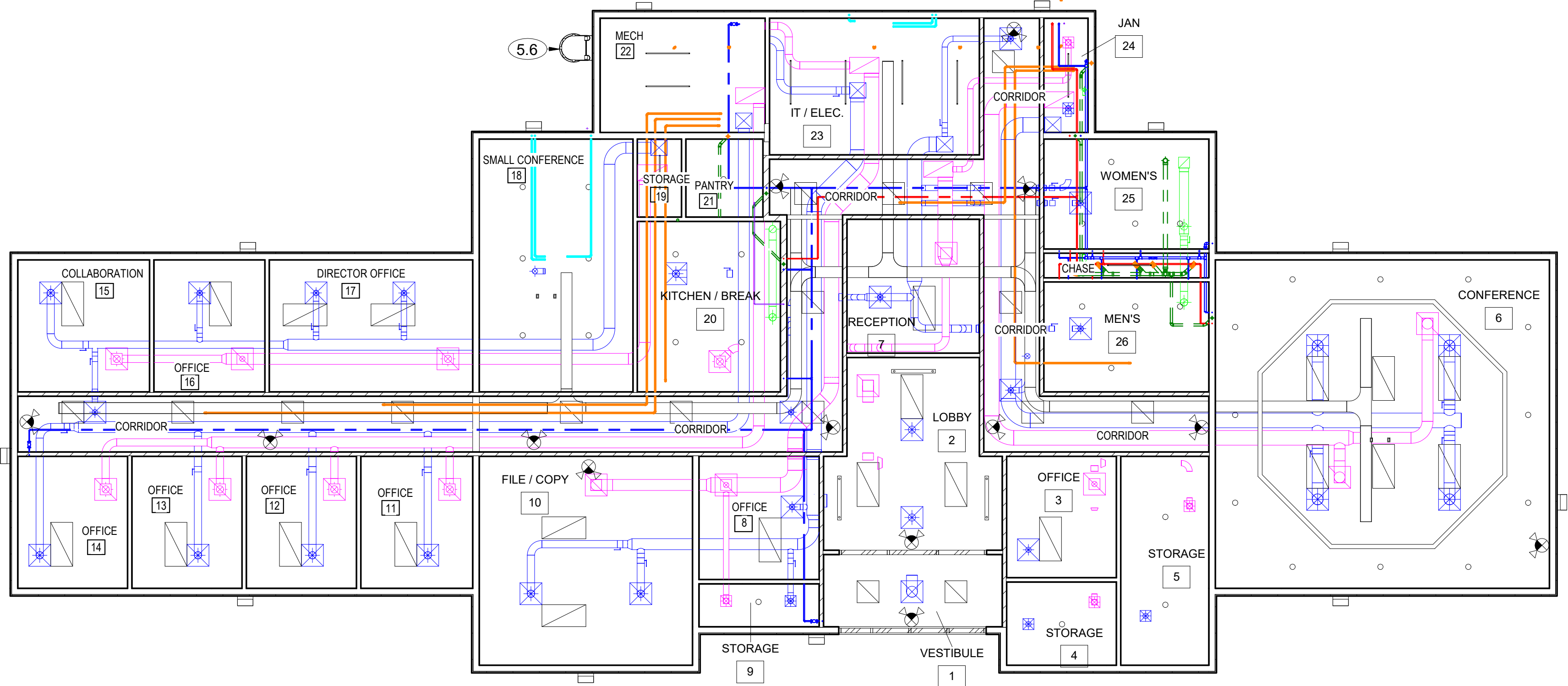
Revisions	Mark	Date	Description

PROJECT NUMBER: NHA Chinle
 FILE: NHA Chinle HMO.rvt
 DRWN. BY: SD+A
 CHKD BY: ES
 DATE: 1/11/2021

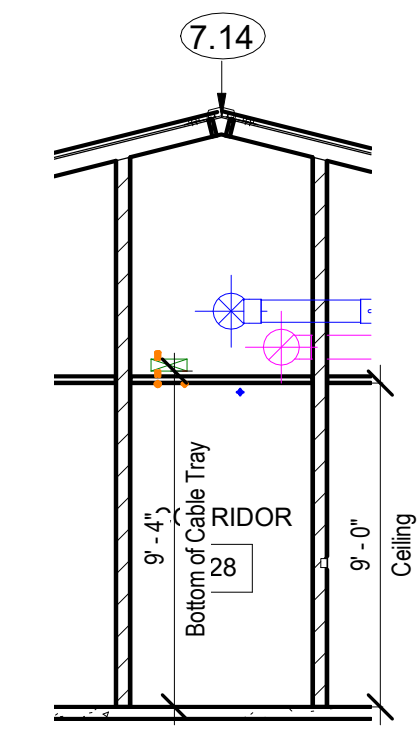
SHEET OF
A-103



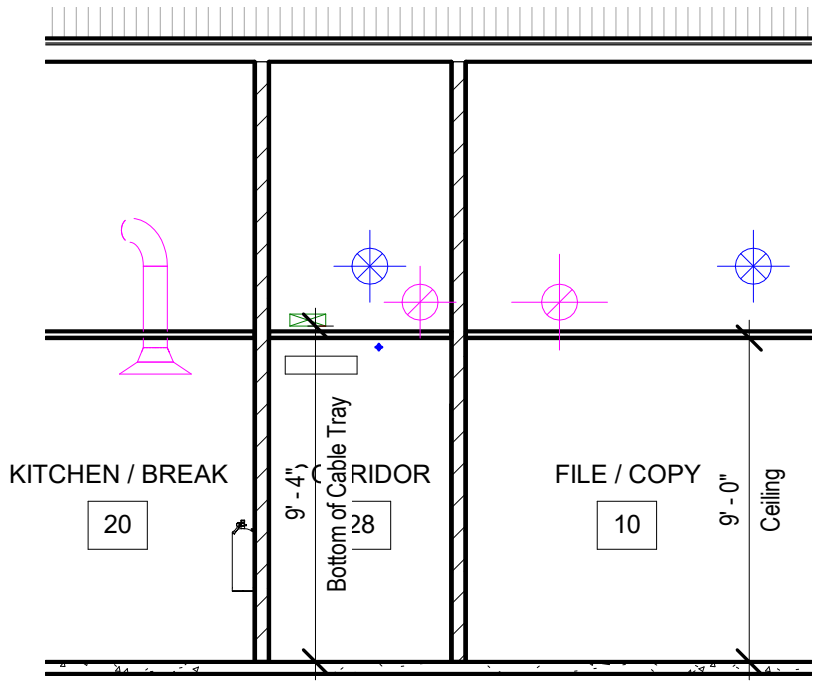
1 3D View Mech. & Cable Tray



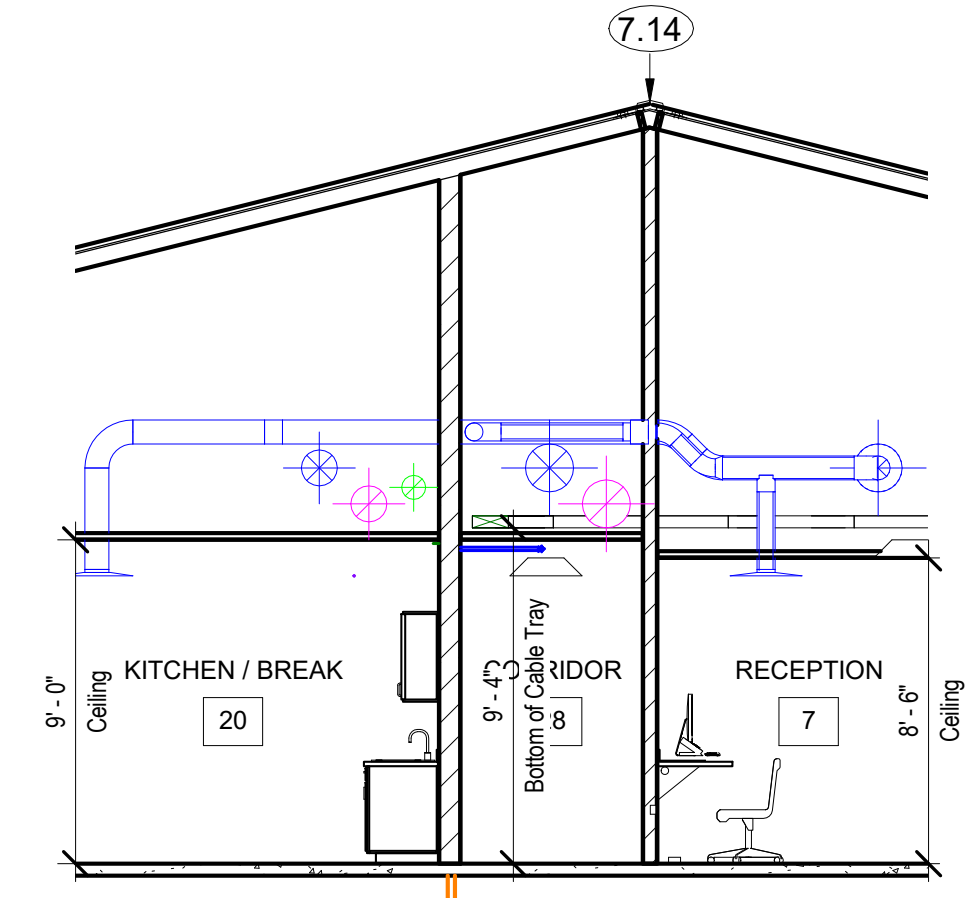
2 CEILING PLAN Mech. & Cable Tray
1/8" = 1'-0"



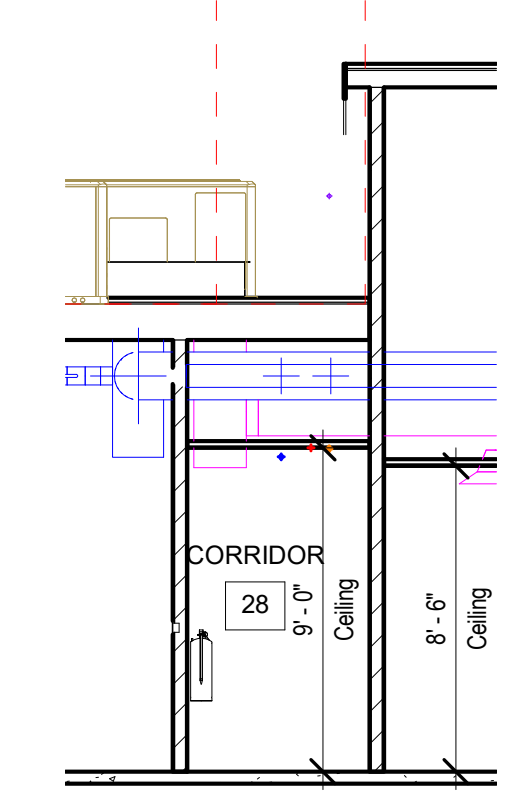
3 Section 8
3/16" = 1'-0"



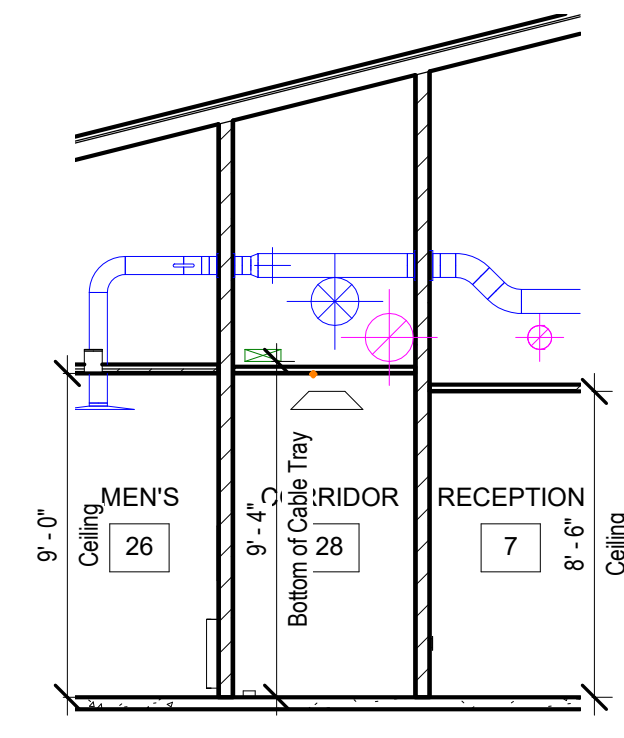
4 Section 9
3/16" = 1'-0"



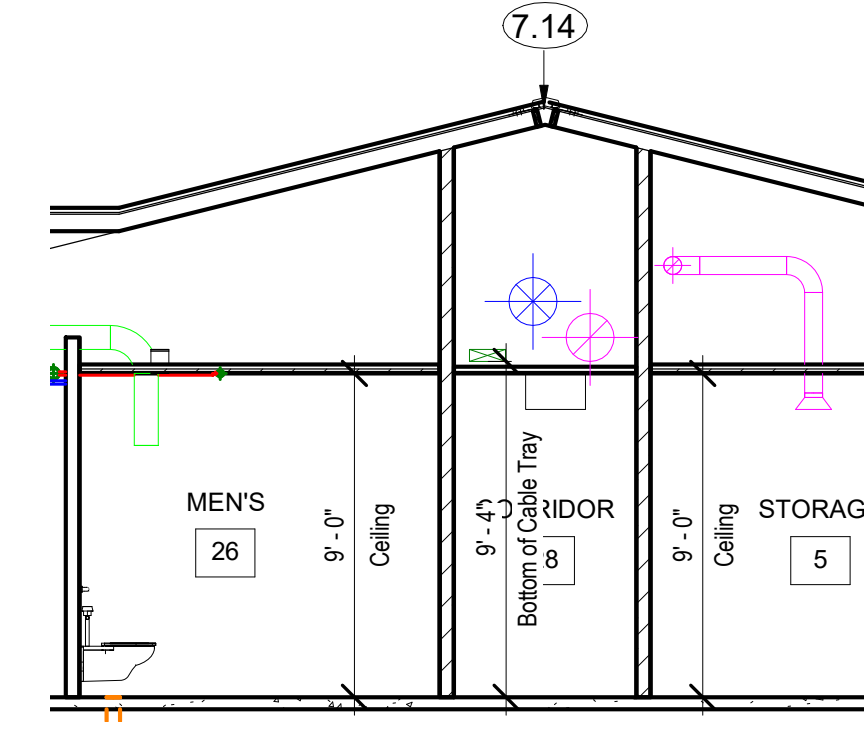
5 Section 10
3/16" = 1'-0"



6 Section 11
3/16" = 1'-0"



7 Section 12
3/16" = 1'-0"



8 Section 13
3/16" = 1'-0"

DATE PLOTTED: 10/28/2021 1:44:23 PM

GENERAL NOTES

A. NEW CONSTRUCTION.

KEYED NOTES

- 1.6 ROOF ASSEMBLY: STANDING-SEAM METAL ROOF PANELS, STANDARD-PROFILE PANELS WITH UPTURNED EDGES OVER, UNDERLAYMENT PER MANUFACTURER REQUIREMENTS OVER, 19/32" O.S.B. ROOF SHEATHING OVER, PRE-MANUFACTURED WOOD TRUSSES @ 24" O.C. R-38 MIN., BLANKET INSULATION AT BOTTOM OF ROOF SHEATHING.
- 1.7 ROOF ASSEMBLY: THERMOPLASTIC POLYOLEFIN (TPO) ROOFING, MECHANICALLY FASTENED, 60 MIL.
- 3.9 034816 PRECAST CONCRETE SPLASH BLOCKS.
- 3.12 034817 PRECAST CONCRETE CHANNEL AND STEEL PLATE AT SIDEWALK.
- 5.6 055123 METAL LADDER, ROOF ACCESS. HEAVY DUTY TUBULAR RAIL ALUMINUM CAGE LADDER, LOW PARAPET ACCESS WITH PLATFORM. O'KEEFE'S, INC. MODEL 533A.
- 7.9 074646 FIBER-CEMENT BOARD, FASCIA AND SOFFIT WITH 2 x SUB-FASCIA / DRIP EDGE / TRIM.
- 7.10 074113 STANDING SEAM METAL ROOF PANELS, WITH UNDERLAYMENT PER MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.
- 7.12 077123 PRE-FORMED, PRE-FINISHED METAL GUTTER AND DOWNSPOUT SYSTEM.
- 7.14 077226 RIDGE VENTS, CONTINUOUS, PER METAL ROOF SYSTEM MANUFACTURER.
- 7.17 075423 THERMOPLASTIC POLYOLEFIN (TPO) ROOFING, MECHANICALLY FASTENED, 60 MIL.
- 23.7 237415 MINI-SPLIT SYSTEM - FAN COIL UNIT. REFERENCE MECHANICAL SCHEDULE.
- 23.8 237416 PACKAGED ROOF-TOP AIR CONDITIONING UNIT. COORDINATE ROOF CURB WITH TPO SYSTEM MANUFACTURER.

D

C

B

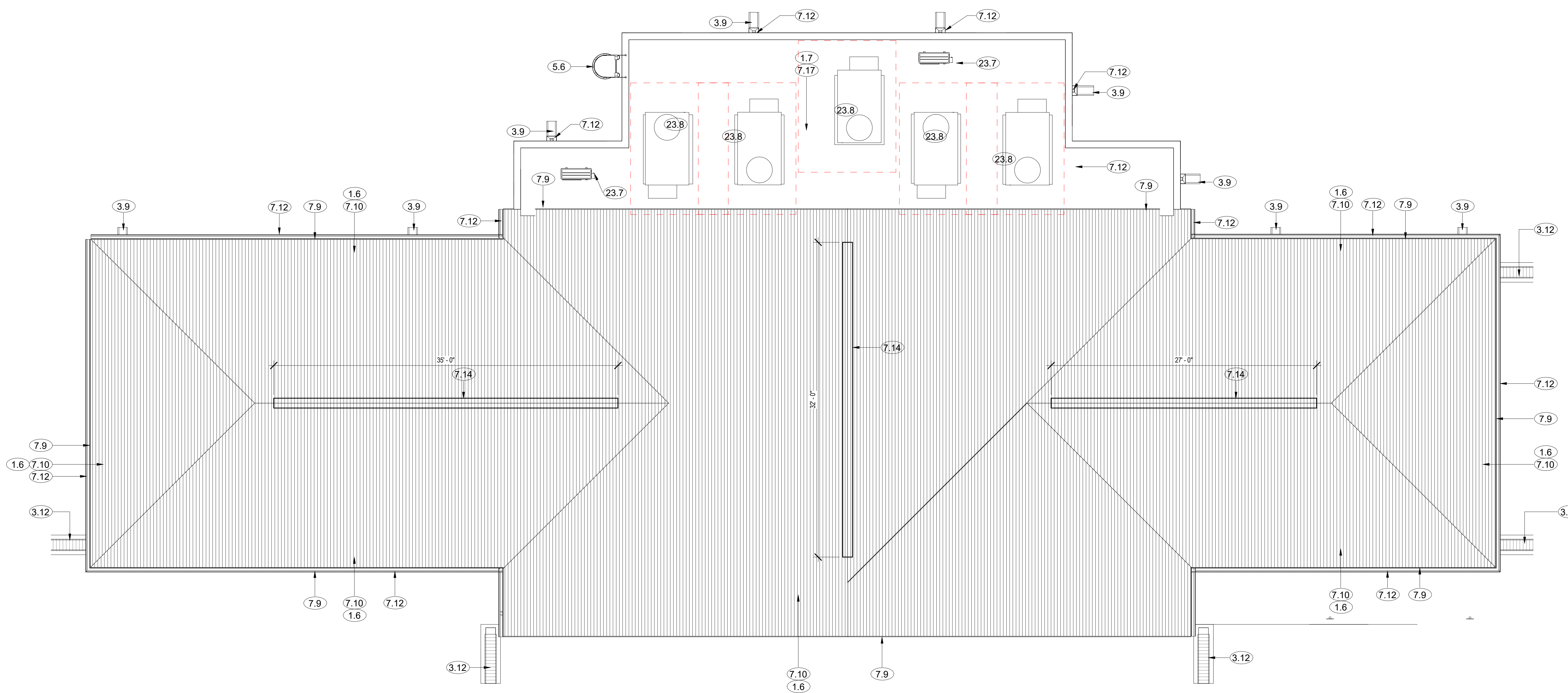
A

D

C

B

A



1 ROOF PLAN
3/16" = 1'-0"



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SHEET TITLE:
ROOF PLAN

PROJECT NAME:
**Chinle HMO Building
Navajo Housing Authority**

Revisions	Mark	Date	Description

PROJECT NUMBER: NHA Chinle
FILE: NHA Chinle HMO.rvt
DRWN. BY: SD+A
CHKD BY: ES
DATE: 1/11/2021

SHEET OF
A-104

DATE PLOTTED: 10/28/2021 1:47:43 PM

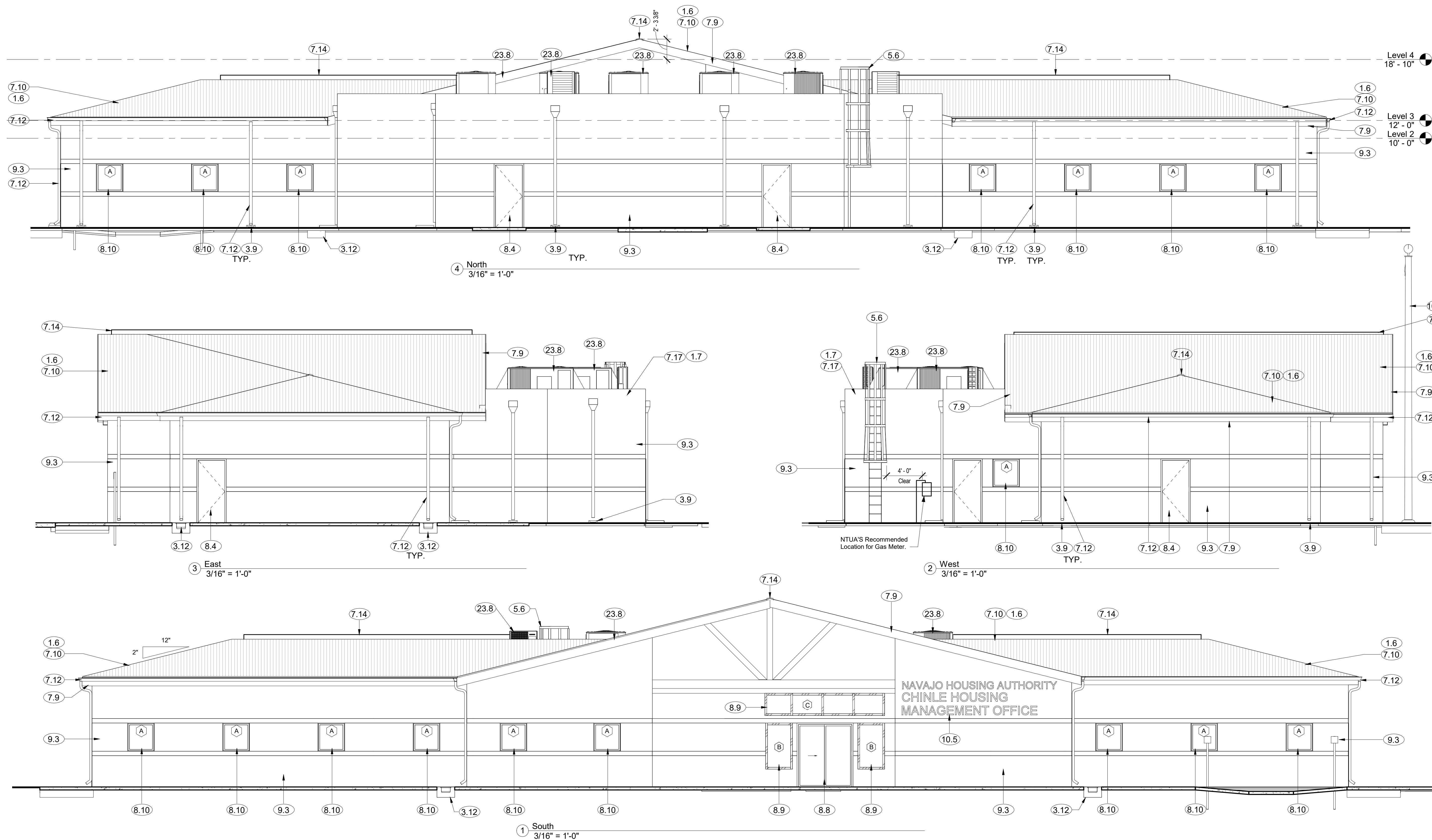
KEYED NOTES

- 1.6 ROOF ASSEMBLY: STANDING-SEAM METAL ROOF PANELS, STANDARD-PROFILE PANELS WITH UPTURNED EDGES OVER, UNDERLAYMENT PER MANUFACTURER REQUIREMENTS OVER, 19/32" O.S.B. ROOF SHEATHING OVER, PRE-MANUFACTURED WOOD TRUSSES @ 24" O.C. R-38 MIN., BLANKET INSULATION AT BOTTOM OF ROOF SHEATHING.
- 1.7 ROOF ASSEMBLY: THERMOPLASTIC POLYOLEFIN (TPO) ROOFING, MECHANICALLY FASTENED, 60 MIL.
- 3.9 034816 PRECAST CONCRETE SPLASH BLOCKS.
- 3.12 034817 PRECAST CONCRETE CHANNEL AND STEEL PLATE AT SIDEWALK.
- 5.6 055123 METAL LADDER, ROOF ACCESS. HEAVY DUTY TUBULAR RAIL ALUMINUM CAGE LADDER, LOW PARAPET ACCESS WITH PLATFORM. O'KEEFE'S, INC. MODEL 533A.
- 7.9 074646 FIBER-CEMENT BOARD, FASCIA AND SOFFIT WITH 2 x SUB-FASCIA / DRIP EDGE / TRIM.

- 7.10 074113 STANDING SEAM METAL ROOF PANELS, WITH UNDERLAYMENT PER MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.
- 7.12 077123 PRE-FORMED, PRE-FINISHED METAL GUTTER AND DOWNSPOUT SYSTEM.
- 7.14 077226 RIDGE VENTS, CONTINUOUS, PER METAL ROOF SYSTEM MANUFACTURER.
- 7.17 075423 THERMOPLASTIC POLYOLEFIN (TPO) ROOFING, MECHANICALLY FASTENED, 60 MIL.
- 8.4 081313 HOLLOW METAL DOORS, FLUSH PANEL, EXTERIOR, R-5 MIN., AS SCHEDULED.
- 8.8 084229 SLIDING AUTOMATIC ENTRANCE, ALUMINUM FRAMED, POWER-OPERATED SINGLE, BIPARTING AND TELESCOPING UNITS, SENSOR ACTIVATED. COORDINATE WITH ELECTRICAL.
- 8.9 084313 ALUMINUM-FRAMED STOREFRONTS, WINDOW UNIT, 2 PANE, LOW-E MEETING U-VALUE (0.35), AS SCHEDULED.
- 8.10 085113 ALUMINUM WINDOWS, 2 PANE, LOW-E MEETING U-VALUE (0.35), AS SCHEDULED.
- 9.3 092400 PORTLAND CEMENT PLASTER (STUCCO) WITH LATH PER SYSTEM MANUFACTURER.
- 10.5 101419 DIMENSIONAL LETTER SIGNAGE, INDIVIDUALLY MOUNTED CHARACTERS.
- 10.25 107516 FLAGPOLES, GROUND SET; U.S.A., ARIZONA, NAVAJO NATION.
- 23.8 237416 PACKAGED ROOF-TOP AIR CONDITIONING UNIT. COORDINATE ROOF CURB WITH TPO SYSTEM MANUFACTURER.

GENERAL NOTES

- A. NEW CONSTRUCTION.



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EXTERIOR ELEVATIONS
 PROJECT NAME:
Chinle HMO Building
Navajo Housing Authority

Revisions	Description	Date	Mark

PROJECT NUMBER: NHA Chinle
 FILE: NHA Chinle HMO.rvt
 DRWN. BY: SD+A
 CHKD BY: ES
 DATE: 1/11/2021
 SHEET OF
A-201

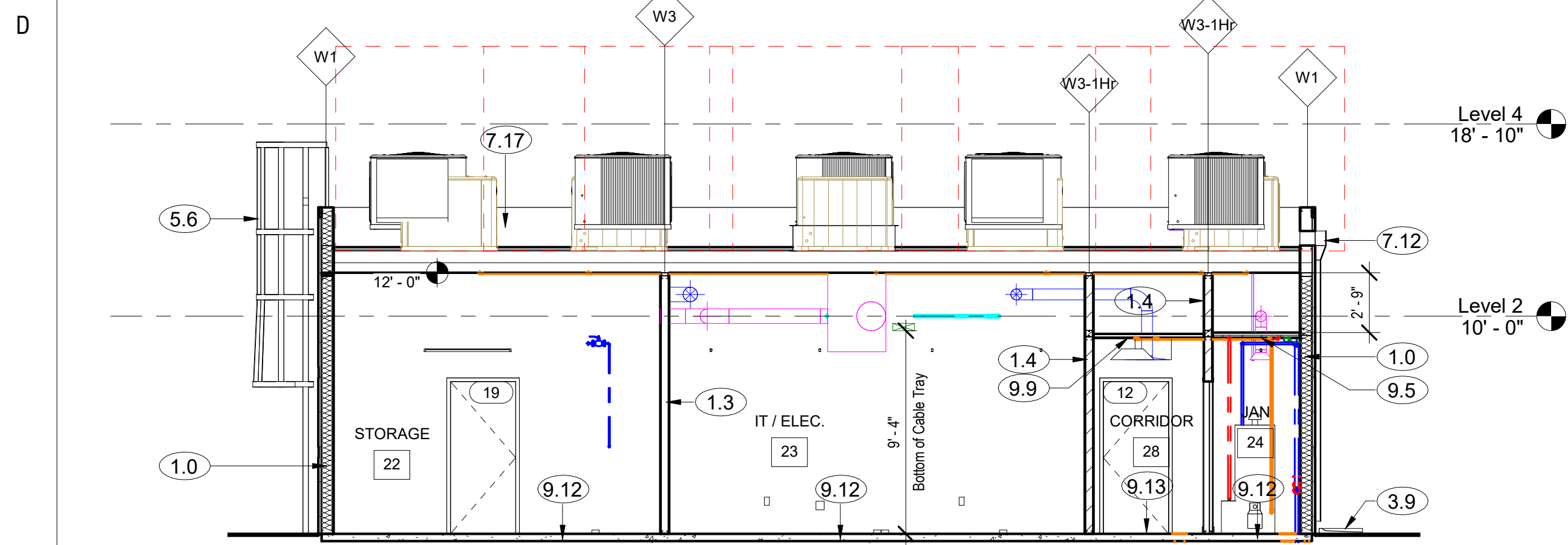
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GENERAL NOTES

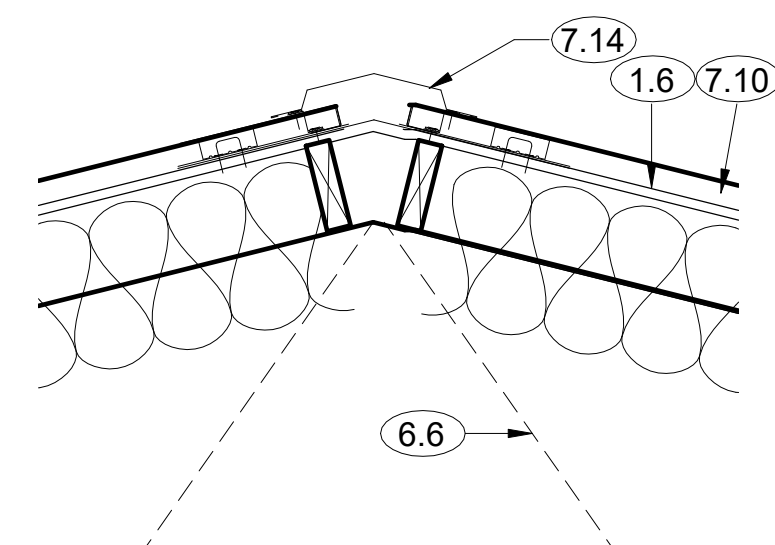
- A. NEW CONSTRUCTION.
- B. ALL OF THE REGISTERS, DIFFUSERS, LIGHTS, ETC. NEED TO BE FLUSHED WITH FINISHED CEILING.
- C. REFERENCE MECHANICAL AND ELECTRICAL SHEETS FOR COORDINATION.
- D. CABLE TRAY TO BE CLEARED OF ANY OBSTRUCTIONS.

KEYED NOTES

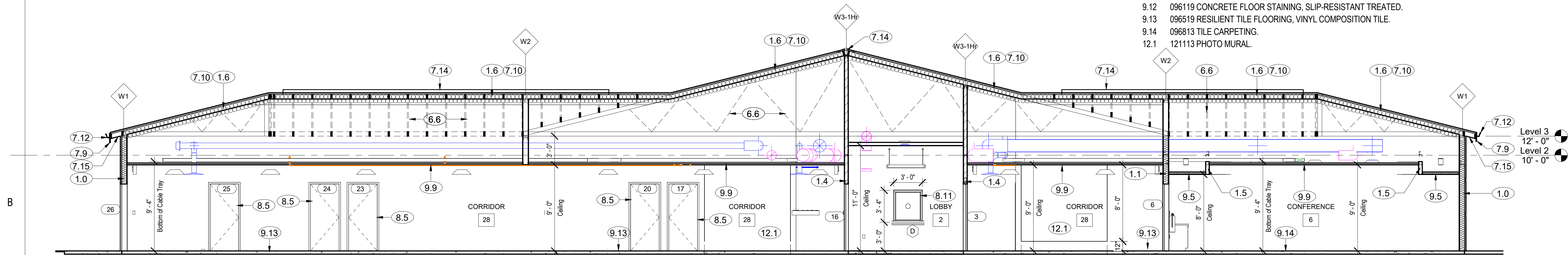
- 1.0 WALL TYPE W1: EXTERIOR; 5/8" TYPE 'X' GYPSUM BOARD, 6" METAL STUDS, 16" O.C., R-21 MIN. BLANKET INSULATION, 7/16" O.S.B. SHEATHING, VAPOR RETARDER, 1" RIGID INSULATION BOARD, LATH WITH 3 COAT STUCCO SYSTEM.
- 1.1 WALL TYPE W2: INTERIOR; 6" METAL STUDS @ 16" O.C., WITH 5/8" TYPE 'X' GYPSUM BOARD, TO EACH SIDE, T.T. & P. SOUND ATTENUATION BLANKETS.
- 1.3 WALL TYPE W3: INTERIOR; 3-5/8" METAL STUDS @ 16" O.C., WITH 5/8" TYPE 'X' GYPSUM BOARD, TO EACH SIDE, T.T. & P. SOUND ATTENUATION BLANKETS.
- 1.4 WALL TYPE W3-1H: INTERIOR; 3-5/8" METAL STUDS @ 16" O.C., WITH 5/8" TYPE 'X' GYPSUM BOARD, TO EACH SIDE, T.T. & P. 1 HOUR FIRE RESISTANT RATED ASSEMBLY, TOP OF FLOOR SLAB TO UNDERSIDE OF ROOF DECK. SOUND ATTENUATION BLANKETS.
- 1.5 WALL TYPE WC: 4" METAL STUDS @ 16" O.C., WITH 5/8" TYPE 'X' GYPSUM BOARD TO ONE SIDE, T.T. & P. AS OCCURS AT PLUMBING CHASE AND OVERHEAD SOFFIT FRAMING.
- 1.6 ROOF ASSEMBLY: STANDING-SEAM METAL ROOF PANELS, STANDARD-PROFILE PANELS WITH UPTURNED EDGES OVER, UNDERLAYMENT PER MANUFACTURER REQUIREMENTS OVER, 19/32" O.S.B. ROOF SHEATHING OVER, PRE-MANUFACTURED WOOD TRUSSES @ 24" O.C. R-38 MIN., BLANKET INSULATION AT BOTTOM OF ROOF SHEATHING.
- 3.9 034816 PRECAST CONCRETE SPLASH BLOCKS.
- 5.6 055123 METAL LADDER, ROOF ACCESS. HEAVY DUTY TUBULAR RAIL ALUMINUM CAGE LADDER, LOW PARAPET ACCESS WITH PLATFORM. O'KEEFE'S, INC. MODEL 533A.
- 6.6 061753 TRUSSES, SHOP FABRICATED WOOD TRUSSES. RE: STRUCTURAL.
- 7.9 074646 FIBER-CEMENT BOARD, FASCIA AND SOFFIT WITH 2 x SUB-FASCIA / DRIP EDGE / TRIM.
- 7.10 074113 STANDING SEAM METAL ROOF PANELS, WITH UNDERLAYMENT PER MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.
- 7.12 077123 PRE-FORMED, PRE-FINISHED METAL GUTTER AND DOWNSPOUT SYSTEM.
- 7.14 077226 RIDGE VENTS, CONTINUOUS, PER METAL ROOF SYSTEM MANUFACTURER.
- 7.15 077226 SOFFIT VENTS, HARDI CEMENT PERFORATED FIBER BOARD, CONTINUOUS.
- 7.17 075423 THERMOPLASTIC POLYOLEFIN (TPO) ROOFING, MECHANICALLY FASTENED, 60 MIL.
- 8.5 081416 FLUSH WOOD DOORS, PRE-FINISHED, SOLID CORE, RATED, AS SCHEDULED.
- 8.8 084229 SLIDING AUTOMATIC ENTRANCE, ALUMINUM FRAMED, POWER-OPERATED SINGLE, BIPARTING AND TELESCOPING UNITS, SENSOR ACTIVATED. COORDINATE WITH ELECTRICAL.
- 8.9 084313 ALUMINUM-FRAMED STOREFRONTS, WINDOW UNIT, 2 PANE, LOW-E MEETING U-VALUE (0.35), AS SCHEDULED.
- 8.11 085619 PASS WINDOW, TELLER-TYPE, INTEGRAL SILL, PAPER-PASS, SPEAK THRU.
- 9.5 092900 GYPSUM BOARD, 5/8" TYPE 'X' GYPSUM BOARD, TAPED, TEXTURED AND PAINTED. PROVIDE MOLD, MILDEW, MOISTURE RESISTANT AT WET AREAS.
- 9.9 095113 ACOUSTICAL PANEL CEILINGS.
- 9.12 096119 CONCRETE FLOOR STAINING, SLIP-RESISTANT TREATED.
- 9.13 096519 RESILIENT TILE FLOORING, VINYL COMPOSITION TILE.
- 9.14 096813 TILE CARPETING.
- 12.1 121113 PHOTO MURAL.



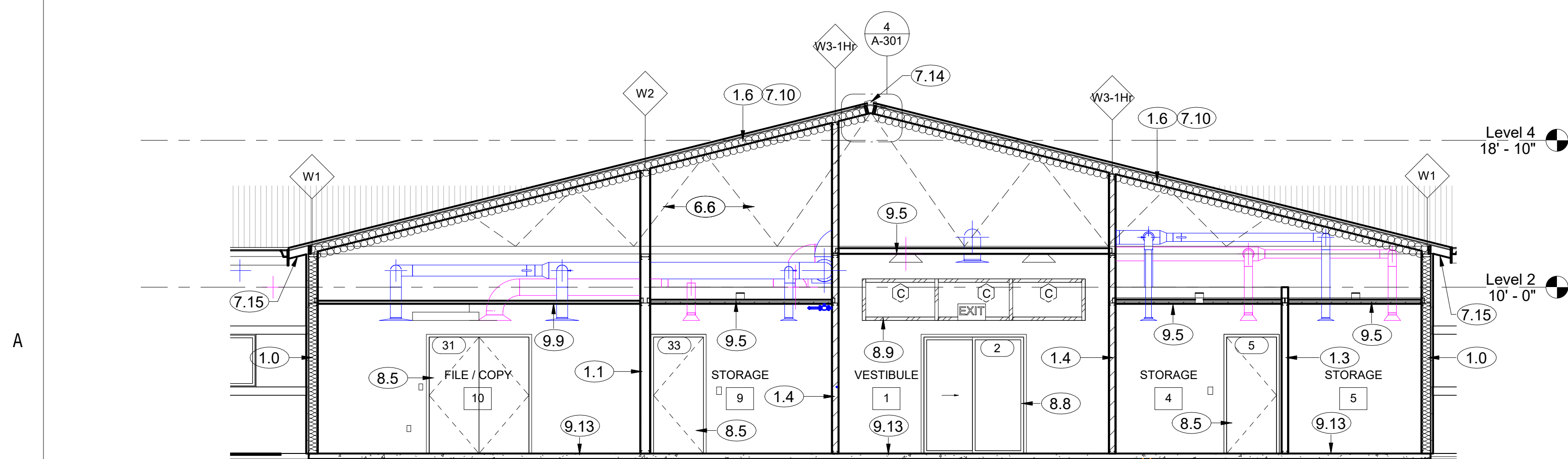
3 Section 3
3/16" = 1'-0"



4 Roof Ridge Vent
1" = 1'-0"



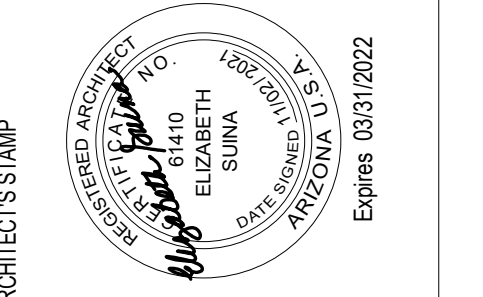
2 Section 2
3/16" = 1'-0"



1 Section 1
3/16" = 1'-0"



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 T: 505-766-6968



BUILDING SECTIONS & VIEWS

PROJECT NAME:
Chinle HMO Building
 Navajo Housing Authority

SHEET TITLE:

Revisions	Mark	Date	Description

PROJECT NUMBER: NHA Chinle
 FILE: NHA Chinle HMO.rvt
 DRWN. BY: SD+A
 CHKD BY: ES
 DATE: 1/11/2021

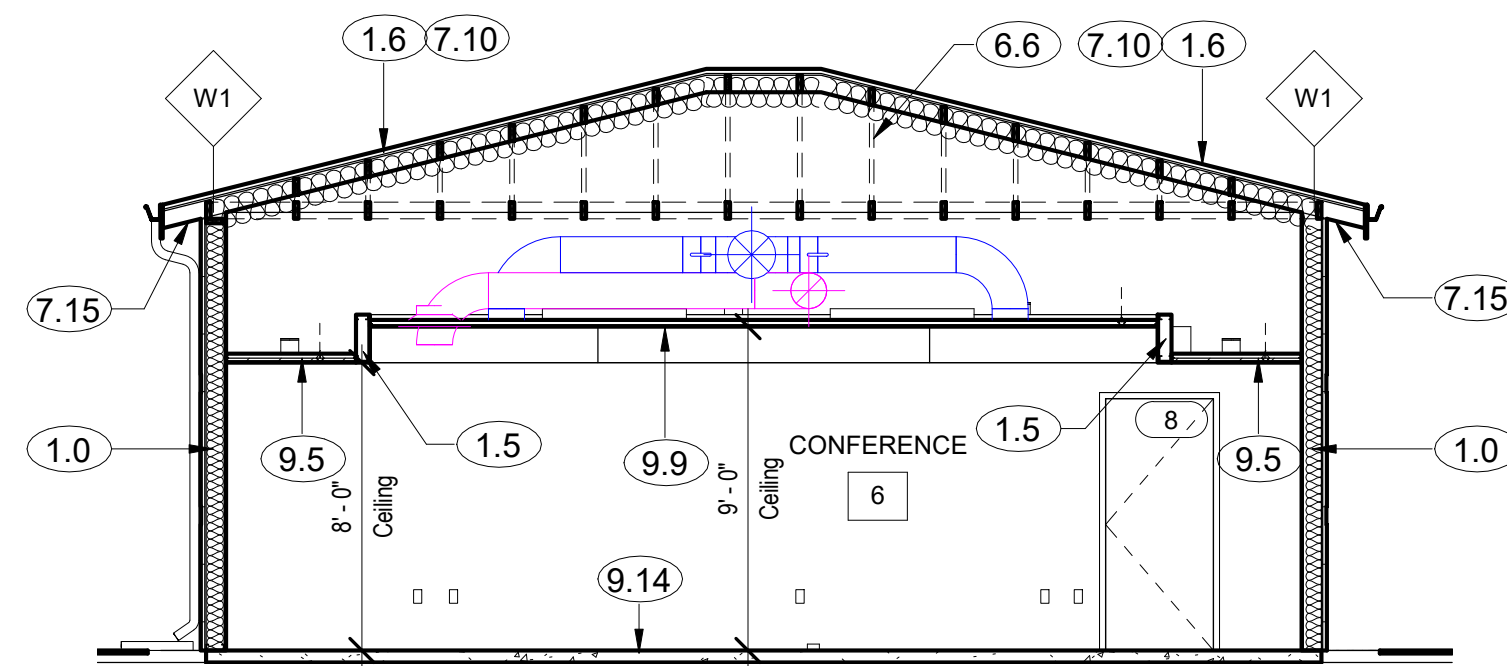
SHEET OF
A-301

GENERAL NOTES

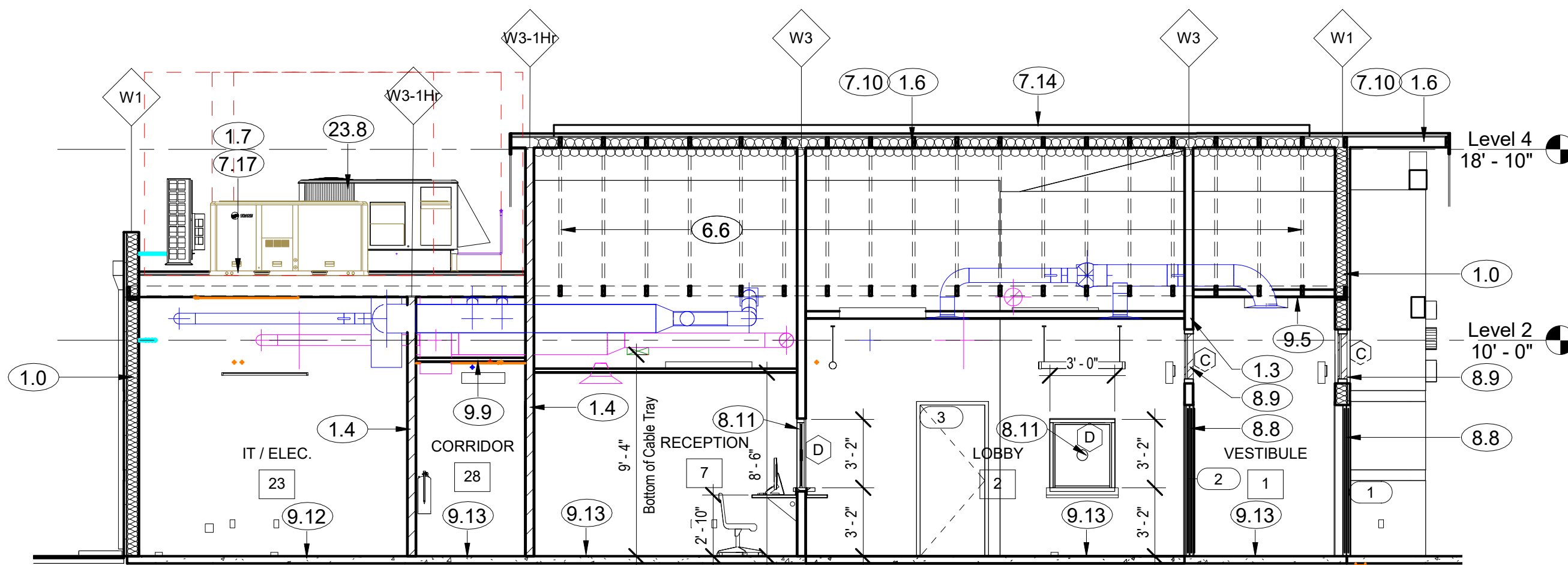
- A. NEW CONSTRUCTION.
- B. ALL OF THE REGISTERS, DIFFUSERS, LIGHTS, ETC. NEED TO BE FLUSHED WITH FINISHED CEILING.
- C. REFERENCE MECHANICAL AND ELECTRICAL SHEETS FOR COORDINATION.
- D. CABLE TRAY TO BE CLEARED OF ANY OBSTRUCTIONS.

KEYED NOTES

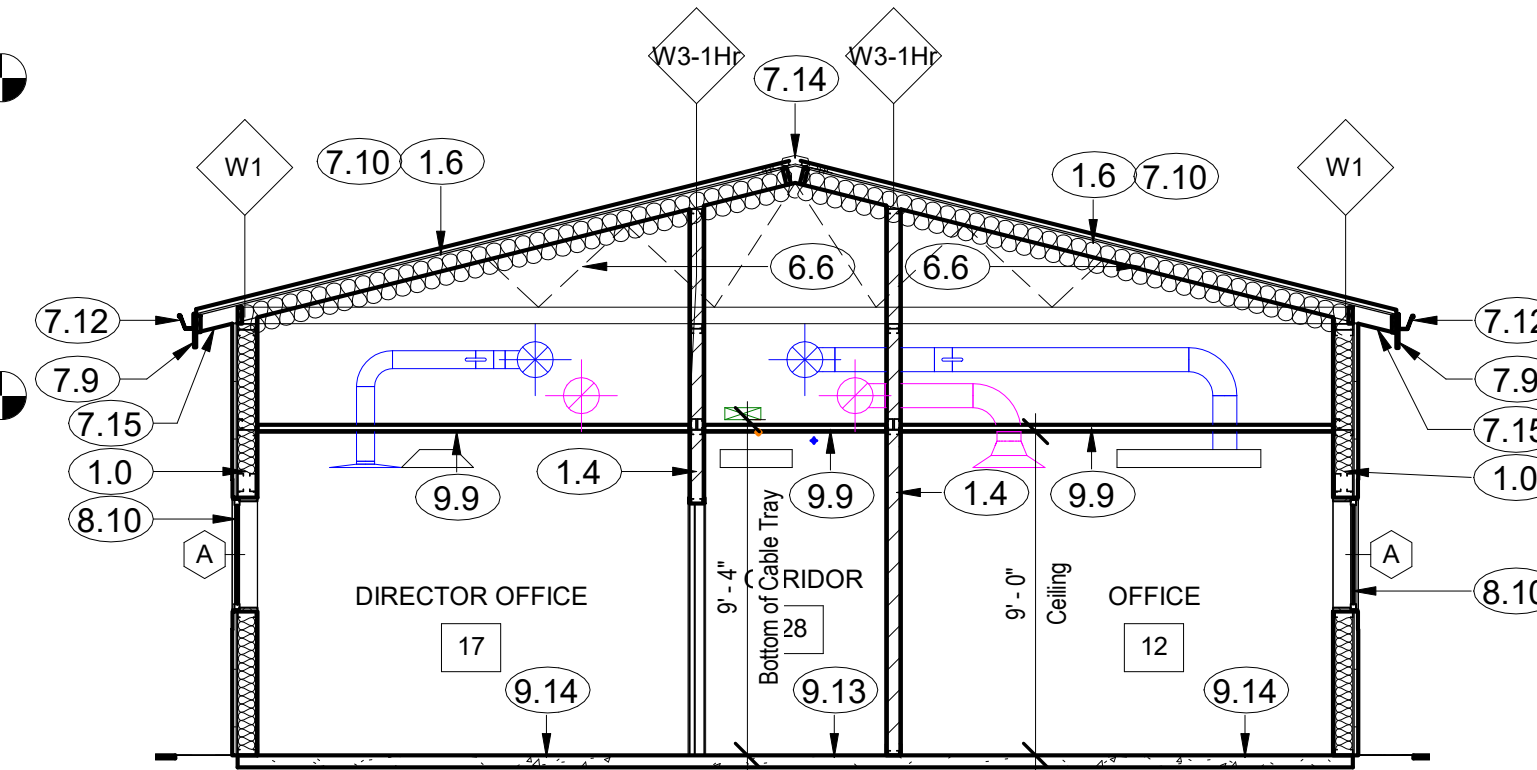
- 1.0 WALL TYPE W1: EXTERIOR; 5/8" TYPE 'X' GYPSUM BOARD, 6" METAL STUDS, 16" O.C., R-21 MIN. BLANKET INSULATION, 7/16" O.S.B. SHEATHING, VAPOR RETARDER, 1" RIGID INSULATION BOARD, LATH WITH 3 COAT STUCCO SYSTEM.
- 1.3 WALL TYPE W3: INTERIOR; 3-5/8" METAL STUDS @ 16" O.C., WITH 5/8" TYPE 'X' GYPSUM BOARD, TO EACH SIDE, T.T. & P. SOUND ATTENUATION BLANKETS.
- 1.4 WALL TYPE W3-1H: INTERIOR; 3-5/8" METAL STUDS @ 16" O.C., WITH 5/8" TYPE 'X' GYPSUM BOARD, TO EACH SIDE, T.T. & P. 1 HOUR FIRE RESISTANT RATED ASSEMBLY, TOP OF FLOOR SLAB TO UNDERSIDE OF ROOF DECK. SOUND ATTENUATION BLANKETS.
- 1.5 WALL TYPE WC: 4" METAL STUDS @ 16" O.C., WITH 5/8" TYPE 'X' GYPSUM BOARD TO ONE SIDE, T.T. & P. AS OCCURS AT PLUMBING CHASE AND OVERHEAD SOFFIT FRAMING.
- 1.6 ROOF ASSEMBLY: STANDING-SEAM METAL ROOF PANELS, STANDARD-PROFILE PANELS WITH UPTURNED EDGES OVER, UNDERLAYMENT PER MANUFACTURER REQUIREMENTS OVER, 19/32" O.S.B. ROOF SHEATHING OVER, PRE-MANUFACTURED WOOD TRUSSES @ 24" O.C. R-38 MIN., BLANKET INSULATION AT BOTTOM OF ROOF SHEATHING.
- 1.7 ROOF ASSEMBLY: THERMOPLASTIC POLYOLEFIN (TPO) ROOFING, MECHANICALLY FASTENED, 60 MIL.
- 6.6 061753 TRUSSES, SHOP FABRICATED WOOD TRUSSES. RE: STRUCTURAL.
- 7.9 074646 FIBER-CEMENT BOARD, FASCIA AND SOFFIT WITH 2 x SUB-FASCIA / DRIP EDGE / TRIM.
- 7.10 074113 STANDING SEAM METAL ROOF PANELS, WITH UNDERLAYMENT PER MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.
- 7.12 077123 PRE-FORMED, PRE-FINISHED METAL GUTTER AND DOWNSPOUT SYSTEM.
- 7.14 077226 RIDGE VENTS, CONTINUOUS, PER METAL ROOF SYSTEM MANUFACTURER.
- 7.15 077226 SOFFIT VENTS, HARDI CEMENT PERFORATED FIBER BOARD, CONTINUOUS.
- 7.17 075423 THERMOPLASTIC POLYOLEFIN (TPO) ROOFING, MECHANICALLY FASTENED, 60 MIL.
- 8.8 084229 SLIDING AUTOMATIC ENTRANCE, ALUMINUM FRAMED, POWER-OPERATED SINGLE, BIPARTING AND TELESCOPING UNITS, SENSOR ACTIVATED. COORDINATE WITH ELECTRICAL.
- 8.9 084313 ALUMINUM-FRAMED STOREFRONTS, WINDOW UNIT, 2 PANE, LOW-E MEETING U-VALUE (0.35), AS SCHEDULED.
- 8.10 085113 ALUMINUM WINDOWS, 2 PANE, LOW-E MEETING U-VALUE (0.35), AS SCHEDULED.
- 8.11 085619 PASS WINDOW, TELLER-TYPE, INTEGRAL SILL, PAPER-PASS, SPEAK THRU.
- 9.5 092900 GYPSUM BOARD, 5/8" TYPE 'X' GYPSUM BOARD, TAPED, TEXTURED AND PAINTED. PROVIDE MOLD, MILDEW, MOISTURE RESISTANT AT WET AREAS.
- 9.9 095113 ACOUSTICAL PANEL CEILINGS.
- 9.12 096119 CONCRETE FLOOR STAINING, SLIP-RESISTANT TREATED.
- 9.13 096519 RESILIENT TILE FLOORING, VINYL COMPOSITION TILE.
- 9.14 096813 TILE CARPETING.
- 23.8 237416 PACKAGED ROOF-TOP AIR CONDITIONING UNIT. COORDINATE ROOF CURB WITH TPO SYSTEM MANUFACTURER.



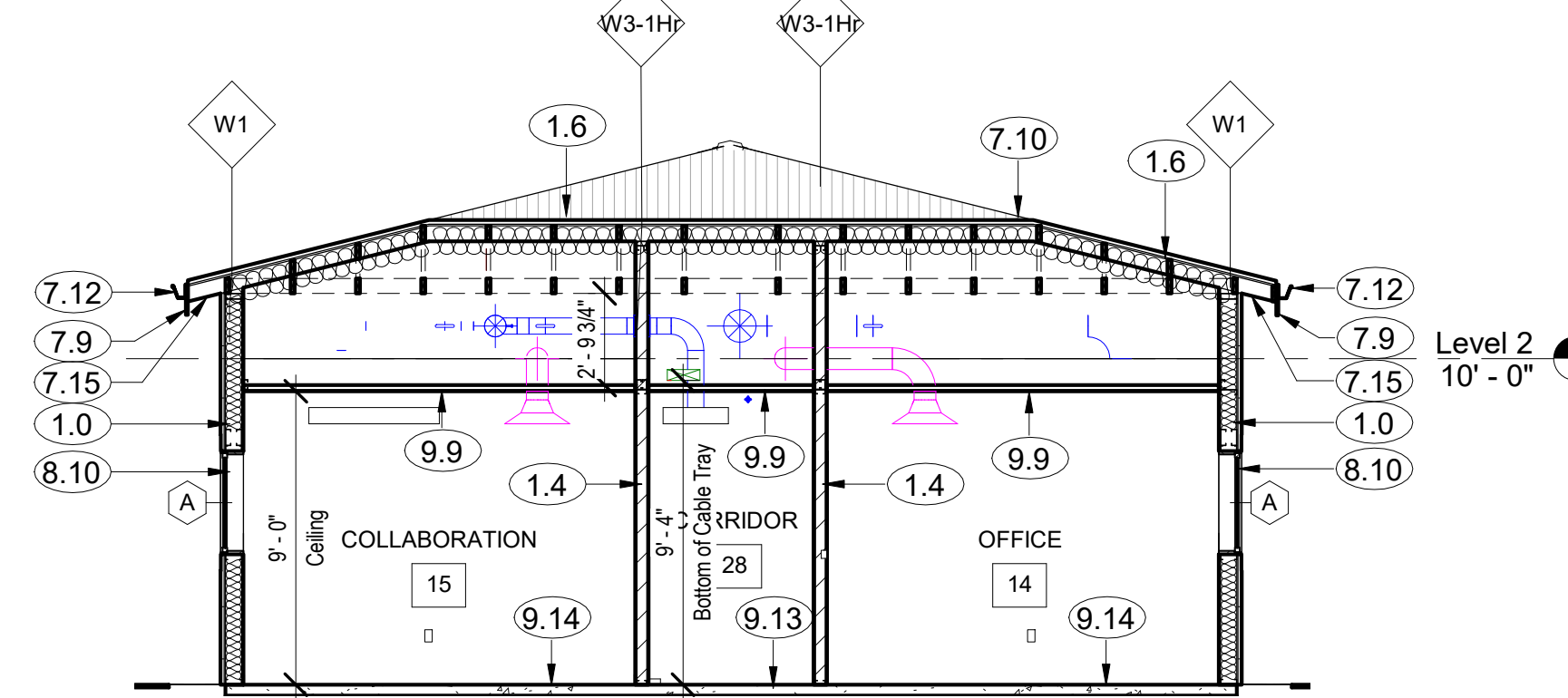
4 Section 7
3/16" = 1'-0"



3 Section 6
3/16" = 1'-0"



2 Section 5
3/16" = 1'-0"



1 Section 4
3/16" = 1'-0"

SUJINA DESIGN
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100% NATIVE AMERICAN WOMEN OWNED

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SHEET TITLE:
BUILDING SECTIONS

PROJECT NAME:
Chinle HMO Building
Navajo Housing Authority

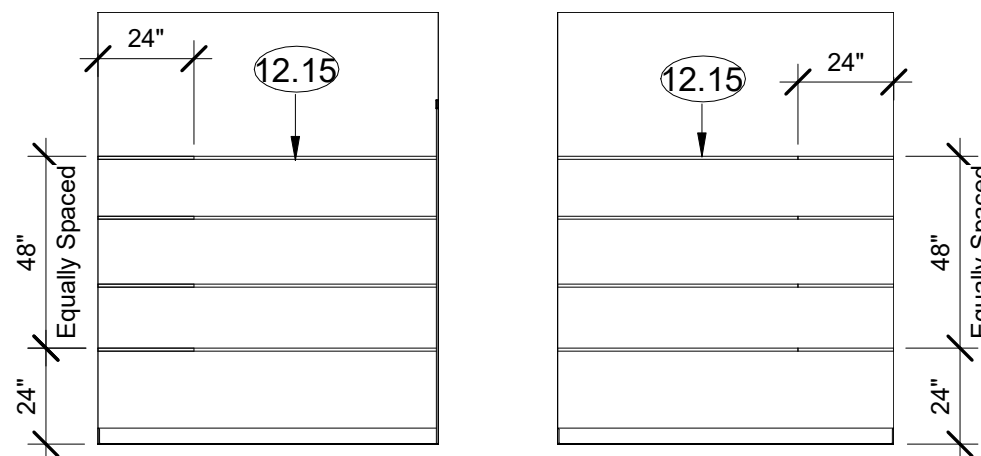
Revisions	Mark	Date	Description

PROJECT NUMBER: NHA Chinle
FILE: NHA Chinle HMO.rvt
DRWN. BY: SD+A
CHKD BY: ES
DATE: 1/11/2021

SHEET OF
A-302

DATE PLOTTED: 10/28/2021 1:49:25 PM

D



13 Pantry A
1/4" = 1'-0"

14 Pantry B
1/4" = 1'-0"

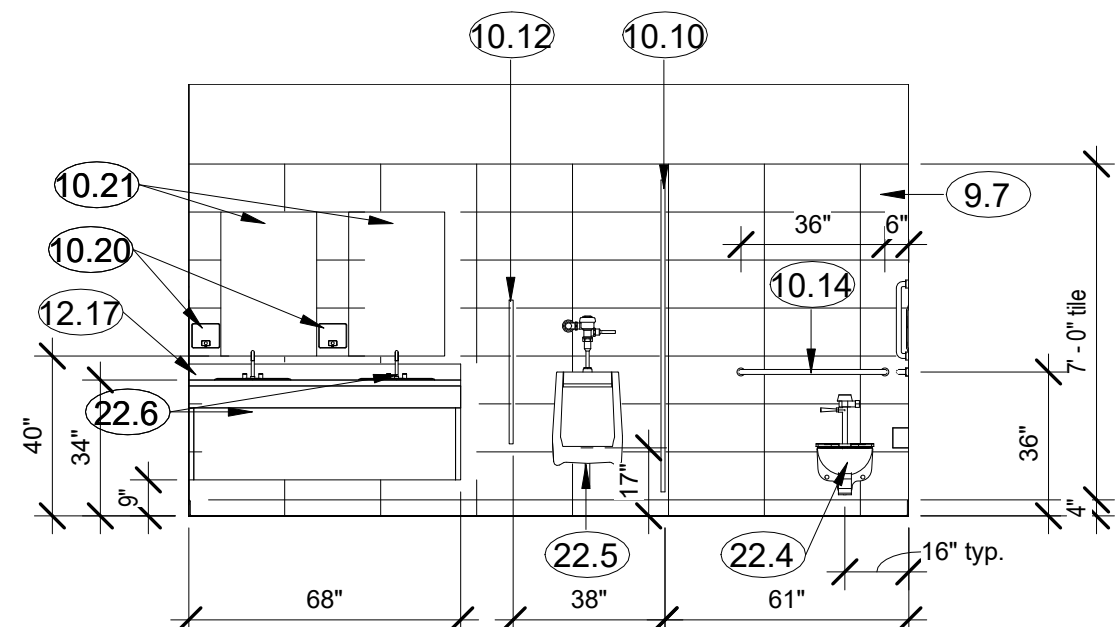
15 Drinking Fountains
1/4" = 1'-0"

16 Conference Room
1/4" = 1'-0"

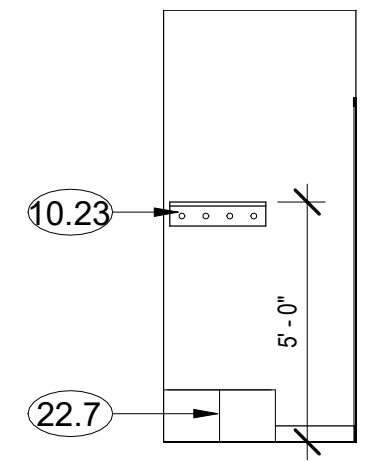
11 Kitchen / Break A
1/4" = 1'-0"

12 Kitchen / Break B
1/4" = 1'-0"

C

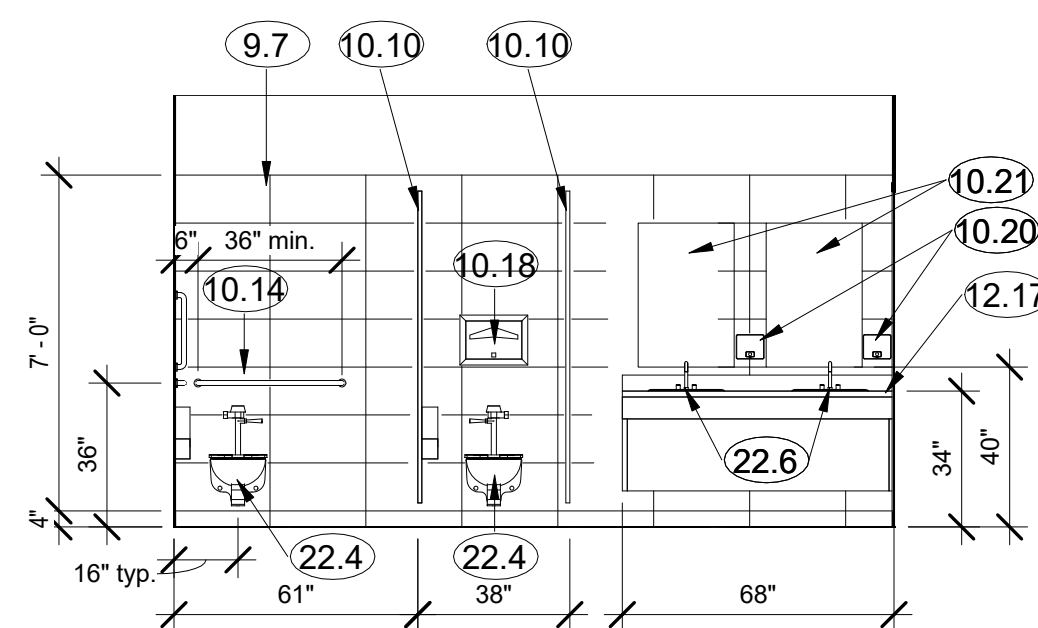


9 Mens A
1/4" = 1'-0"

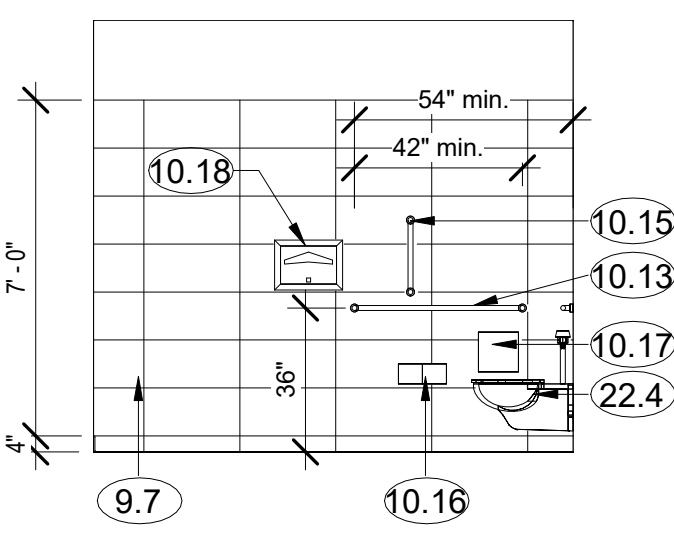


10 Janitors
1/4" = 1'-0"

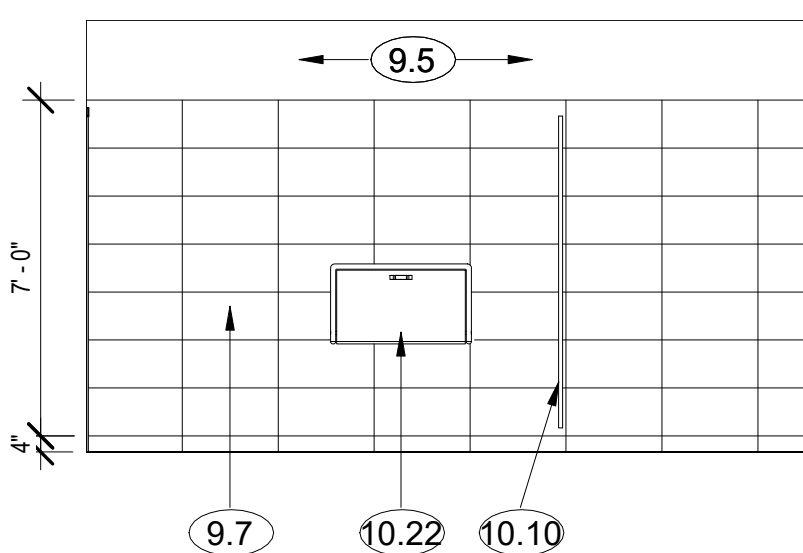
B



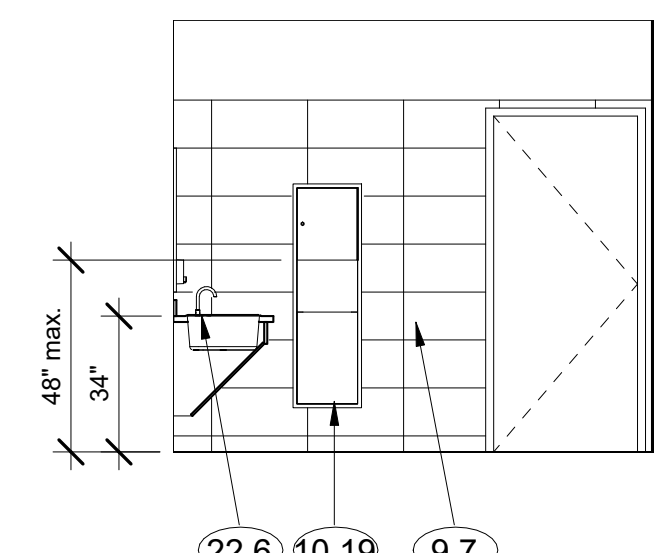
5 Womens A
1/4" = 1'-0"



6 Womens B
1/4" = 1'-0"
Sim. @ Mens,
less KN 10.17

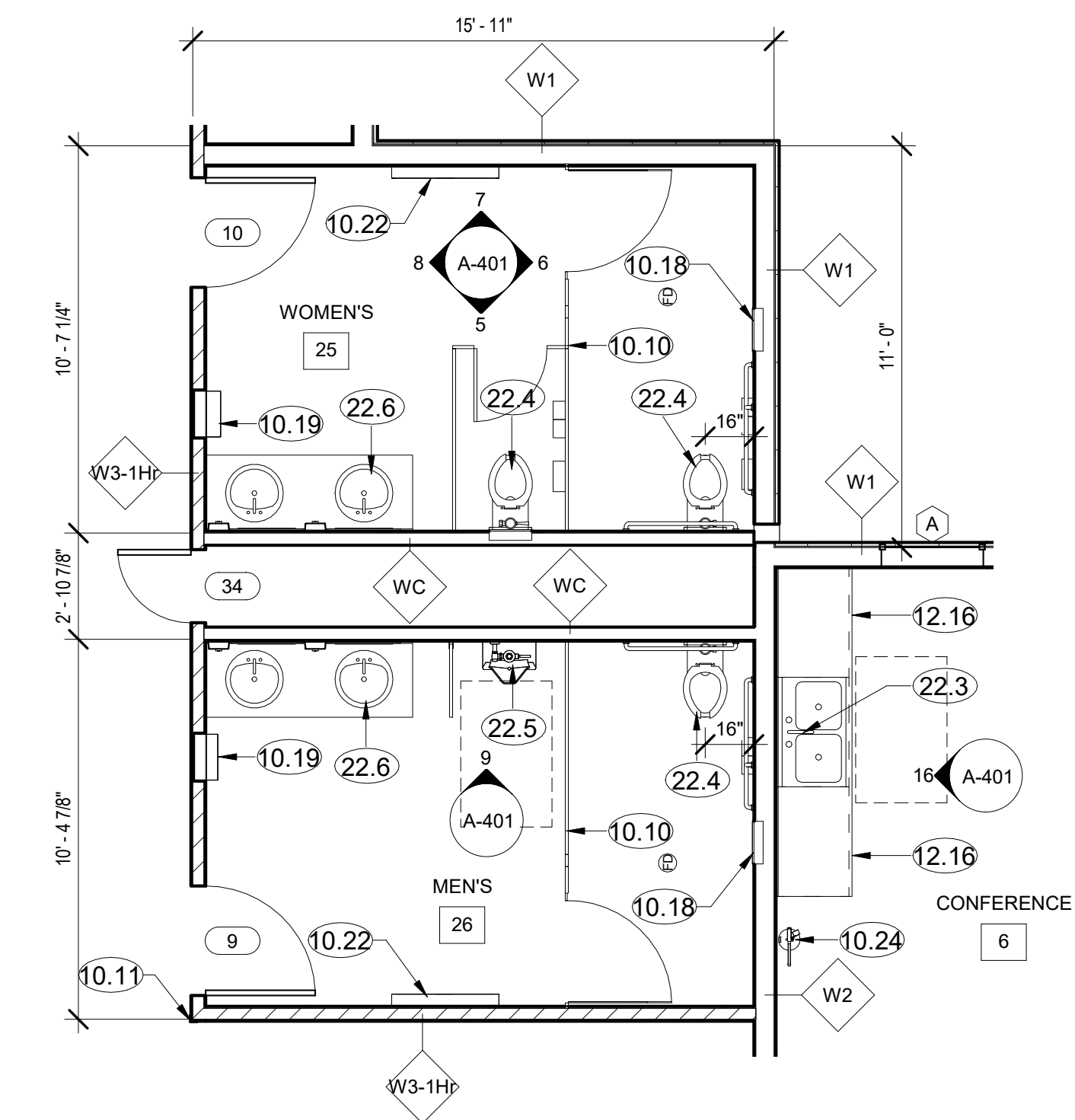


7 Womens C
1/4" = 1'-0"

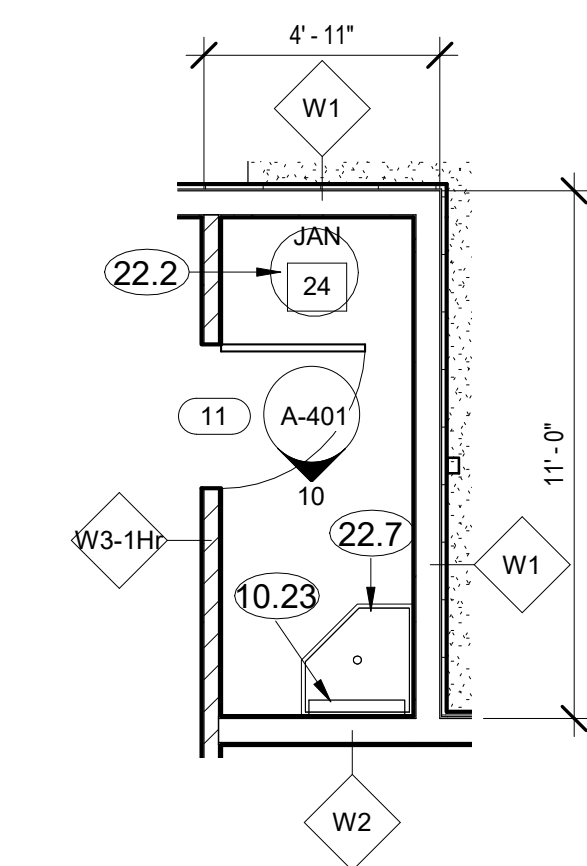


8 Womens D
1/4" = 1'-0"

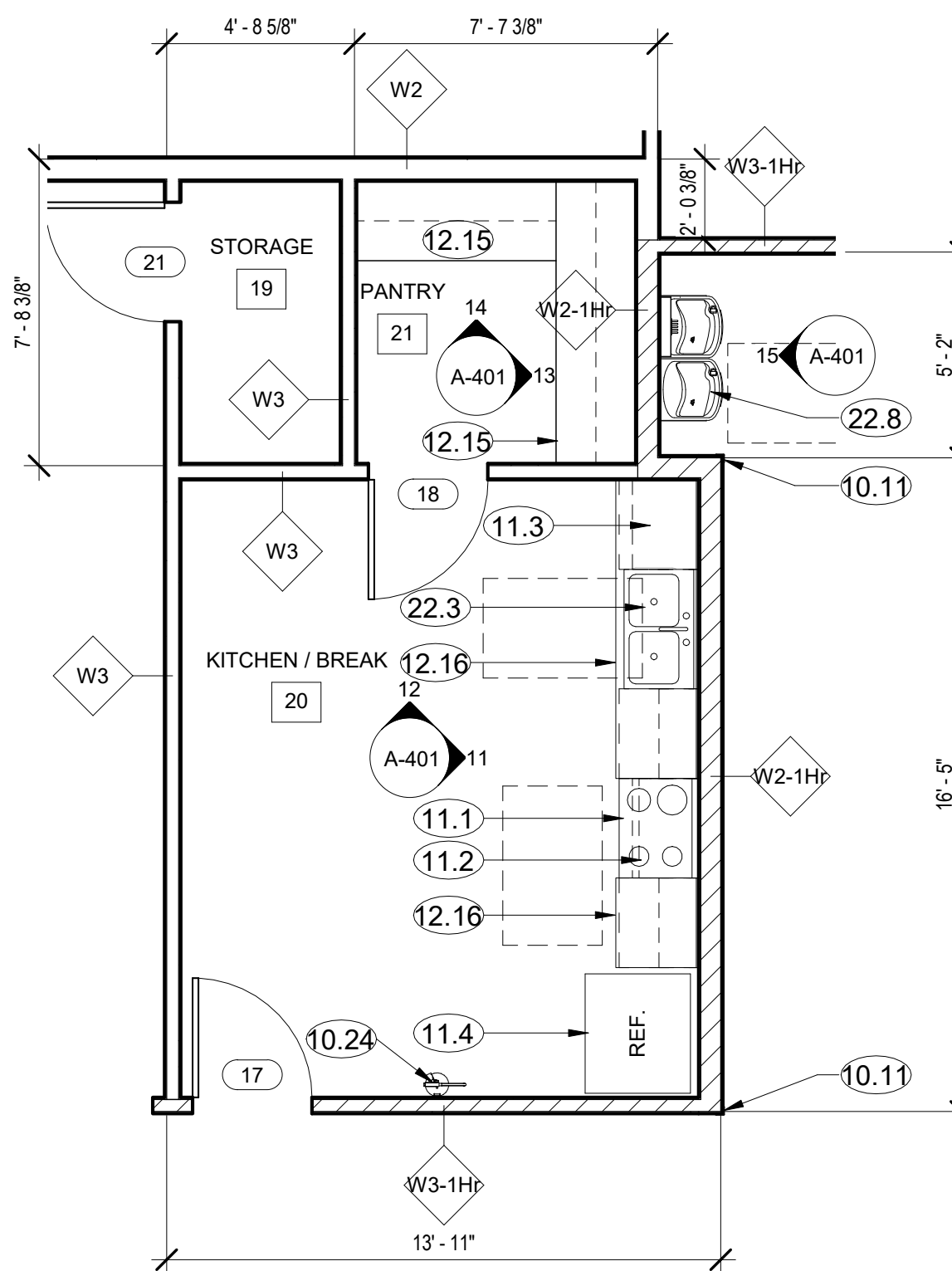
A



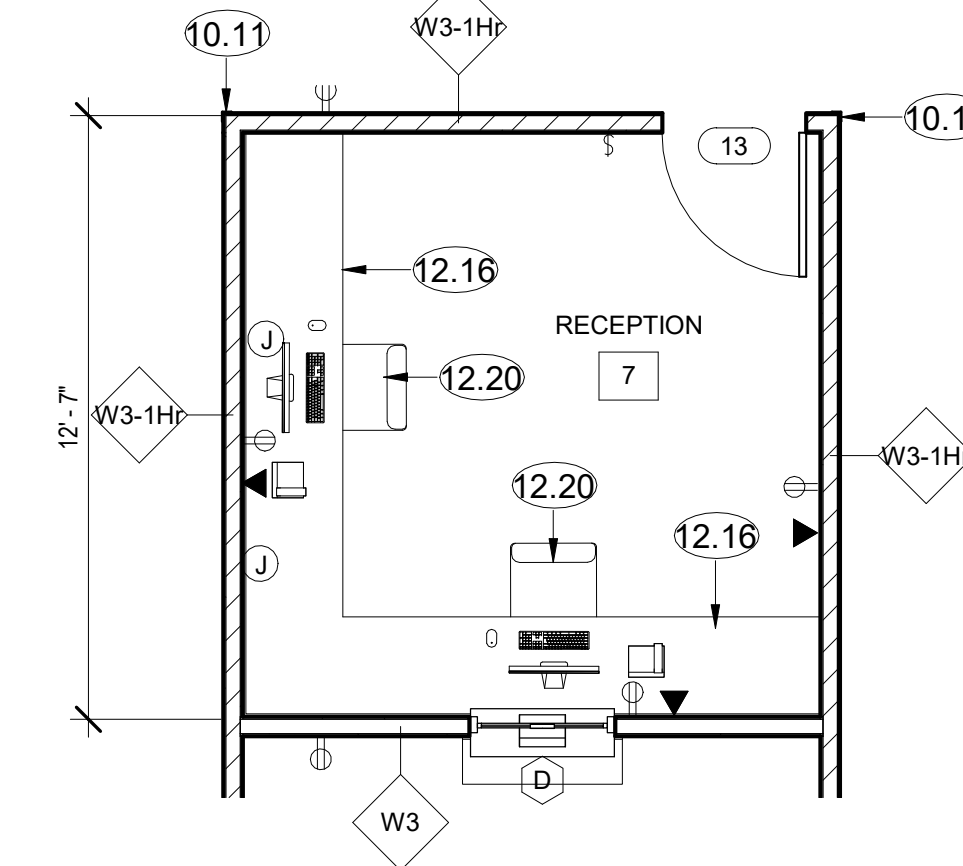
1 Enlarged Floor Plan Restrooms
1/4" = 1'-0"



2 Enlarged Plan Janitor
1/4" = 1'-0"



3 Enlarged Plan Kitchen/Break
1/4" = 1'-0"



4 Enlarged Plan Reception
1/4" = 1'-0"

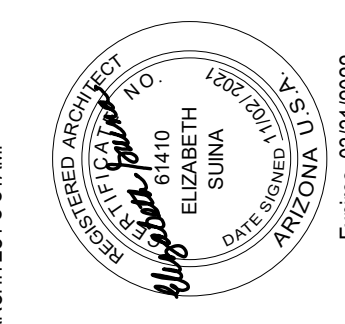
GENERAL NOTES

- A. NEW CONSTRUCTION.
- B. LEVER TYPE FAUCETS TO BE INSTALLED PER ADA.
- C. FLUSH CONTROL NOT TO EXCEED MORE THAN 5 LBS. TO FLUSH.
- D. PROVIDE ADA SIGNAGE AT RESTROOMS, TYP.
- E. EXPOSED PLUMBING AT RESTROOMS TO BE COVERED WITH A "WRAP" OR PANEL.

KEYED NOTES

- 9.5 092900 GYPSUM BOARD, 5/8" TYPE 'X' GYPSUM BOARD, TAPED, TEXTURED AND PAINTED. PROVIDE MOLD, MILDEW, MOISTURE RESISTANT AT WET AREAS.
- 9.7 093113 CERAMIC TILING, AS SCHEDULED.
- 10.10 102113 TOILET COMPARTMENT PARTITION, METAL.
- 10.11 102613 CORNER GUARDS.
- 10.12 102613 URINAL SCREEN.
- 10.13 102913 TOILET ACCESSORIES; GRAB (42") BAR, SIDE WALL, ADA COMPLIANT.
- 10.14 102913 TOILET ACCESSORIES; GRAB (36") BAR, BACK WALL, ADA COMPLIANT.
- 10.15 102913 TOILET ACCESSORIES; GRAB (18") BAR, SIDE WALL, VERTICAL, ANSI A117.1 COMPLIANT.
- 10.16 102913 TOILET ACCESSORIES; TOILET PAPER DISPENSER, ADA COMPLIANT.
- 10.17 102913 TOILET ACCESSORIES; SANITARY NAPKIN DISPOSAL, ADA COMPLIANT.
- 10.18 102913 TOILET ACCESSORIES; SEAT COVER DISPENSER, ADA COMPLIANT.
- 10.19 102913 TOILET ACCESSORIES; TOWEL DISPENSER / WASTE RECEPTACLE, ADA COMPLIANT.
- 10.20 102913 TOILET ACCESSORIES; LIQUID SOAP DISPENSER, ADA COMPLIANT.
- 10.21 102913 TOILET ACCESSORIES; CHANNEL FRAME MIRROR, 24" x 36", REFLECTIVE SURFACE AT 40" A.F.F., ADA COMPLIANT.
- 10.22 102913 TOILET ACCESSORIES; BABY CHANGING STATION, ADA COMPLIANT.
- 10.23 102826 CUSTODIAL ACCESSORIES; MOP AND BROOM HOLDER.
- 10.24 104416 FIRE EXTINGUISHER, LARSEN ARCHITECTURAL SERIES AS A REFERENCE.
- 11.1 113013 KITCHEN APPLIANCES; RANGE, 30" WIDE, NATURAL GAS. ACCESSIBLE CONTROLS PER ADA.
- 11.2 113013 KITCHEN APPLIANCES; RANGE HOOD, ENERGY STAR RATED, 30" WIDE, 7" DIA. EXHAUST DUCTED TO BUILDING EXTERIOR, BACK DRAFT DAMPER. ACCESSIBLE CONTROLS PER ADA. CONTRACTOR INSTALL.
- 11.3 113013 KITCHEN APPLIANCES; MICROWAVE OVEN, "AMANA" (MEDIUM VOLUME), MODEL RCS10TS OR SIMILAR, CONTRACTOR INSTALL. PROVIDE ELECTRICAL RECEPTACLE ON A SEPERATE CIRCUIT AT 60" A.F.F.
- 11.4 113013 KITCHEN APPLIANCES; REFRIGERATOR, ENERGY STAR RATED, ACCESSIBLE PER ADA.
- 12.5 123530 CASEWORK; BASE CABINET, SINGLE DOOR, SINGLE DRAWER, 2 ADJUSTABLE SHELVES.
- 12.6 123530 CASEWORK; BASE CABINET, DOUBLE DOOR, DOUBLE DRAWER, 2 ADJUSTABLE SHELVES.
- 12.7 123530 CASEWORK; BASE CABINET, DOUBLE DOOR, SINK UNIT.
- 12.11 123530 CASEWORK; UPPER CABINET, SINGLE DOOR, 2 ADJUSTABLE SHELVES.
- 12.13 123530 CASEWORK; UPPER CABINET, DOUBLE DOOR.
- 12.15 123530 SHELVING, 24" DEEP, CLEATS, PROVIDE SOLID BLOCKING, MID-SPAN SUPPORT AT SPANS EQUAL TO AND GREATER THAN 5 FT.
- 12.16 123623 COUNTER-TOP WITH 4" BACKSPLASH, PLASTIC LAMINATED.
- 12.17 123661 COUNTER-TOP, SOLID SURFACING, INTEGRAL 4" BACKSPLASH, REMOVABLE PANELS. ALLOWANCE FOR TOE AND KNEE CLEARANCES PER ADA.
- 12.20 125000 FURNITURE (NIC) SHOWN FOR CLEARANCE PURPOSES ONLY.
- 22.2 223436 WATER HEATER, FUEL-FIRED, COMMERCIAL GAS DOMESTIC. RE: PLUMBING.
- 22.3 224116 SINK, 2 COMPARTMENT, WITH DISPOSAL, RESIDENTIAL. INSULATE UNDER COUNTER (ADA 606.5) SUPPLY AND WASTE PIPING OR CONFIGURE TO PROTECT AGAINST CONTACT. ADA & ANSI A117.1 COMPLIANT.
- 22.4 224216 WATER CLOSET, COMMERCIAL. ADA & ANSI A117.1 COMPLIANT.
- 22.5 224216 URINAL, COMMERCIAL. ADA & ANSI A117.1 COMPLIANT.
- 22.6 224216 LAVATORY, COMMERCIAL, COUNTERTOP SUPPORTED, DROP-IN, WITH PROTECTIVE COVER AT UNDER COUNTER PIPING, ADA & ANST A117.1 COMPLIANT.
- 22.7 224216 SERVICE / MOP SINK, FLOOR MOUNTED.
- 22.8 224216 DRINKING FOUNTAIN, BI-LEVEL, BARRIER FREE, WITH BOTTLE FILLING STATION. RE: PLUMBING.

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SHEET TITLE:

ENLARGED PLANS & INTERIOR ELEVS.

PROJECT NAME:

Chinle HMO Building
Navajo Housing Authority

Revisions

Mark	Date	Description

PROJECT NUMBER: NHA Chinle
 FILE: NHA Chinle HMO.rvt
 DRWN. BY: SD+A
 CHKD BY: ES
 DATE: 1/11/2021

SHEET OF
A-401

ROOM FINISH SCHEDULE

Table with columns: ROOM NUMBER, ROOM NAME, FLOOR FINISH, BASE FINISH, WALL FINISH, PAINT, CEILING FINISH, CEILING HEIGHT. Lists finishes for various rooms like Vestibule, Lobby, Office, Storage, Conference, Reception, etc.

PAINT SCHEDULE:

PAINT COLOR 1: SHERWIN WILLIAMS SHELL WHITE 8917
PAINT COLOR 2: SOFTER TAN 6141

ACCENT COLOR 1: SHERWIN WILLIAMS SIERRA WOOD 7598
ACCENT COLOR 2: SHERWIN WILLIAMS THERMAL SPRING 6761
ACCENT COLOR 3: SHERWIN WILLIAMS SUNFLOWER 6678

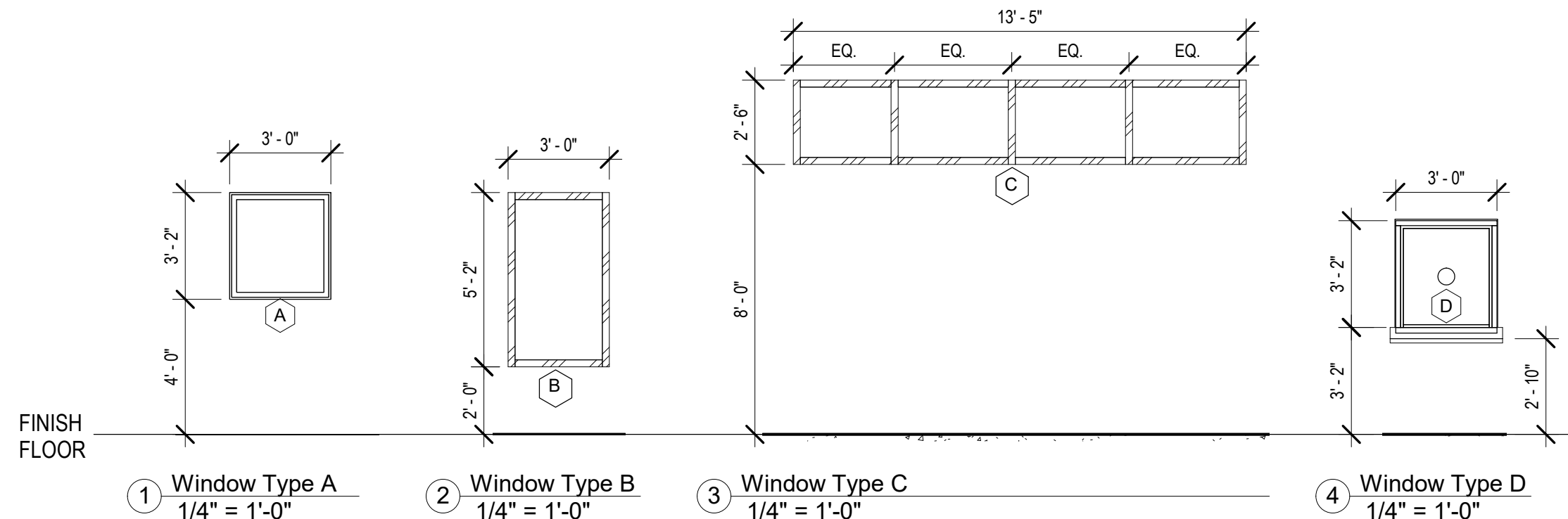
COUNTER TOP COLORS:
WOMEN'S RESTROOM = CHAMPAGNE ICE
MENS RESTROOM = FLINT ROCK
KITCHEN / BREAK & CONFERENCE = SEA STONE

CONC. = EXPOSED CONCRETE, STAINED & SEALED.
G.BD. = 5/8" TYPE 'X' GYPSUM BOARD, TAPED, TEXTURED & PAINTED.
G.BD.T. = 5/8" TYPE 'X' GYPSUM BOARD, TAPED ONLY.

WINDOW SCHEDULE

Table with columns: TYPE, WINDOW TYPE, WIDTH, HEIGHT, SILL HEIGHT, REMARKS. Lists window types A, B, C, D with dimensions.

NOTE: VERIFY QUANTITIES WITH FLOOR PLANS



1 Window Type A 1/4" = 1'-0" 2 Window Type B 1/4" = 1'-0" 3 Window Type C 1/4" = 1'-0" 4 Window Type D 1/4" = 1'-0"

WINDOW TYPES

WINDOWS SHALL BE ALUMINUM, 2 PANE, LOW-E MEETING U-VALUE (0.35) FOR CLIMATE ZONE 5, WITH INTERIOR BLINDS AT OFFICES & CONFERENCE ROOMS.

STOREFRONT WINDOW SCHEDULE (at Vestibule)

Table with columns: TYPE, WINDOW TYPE, WIDTH, HEIGHT, SILL HEIGHT, REMARKS. Lists storefront window types B, C, D with dimensions.

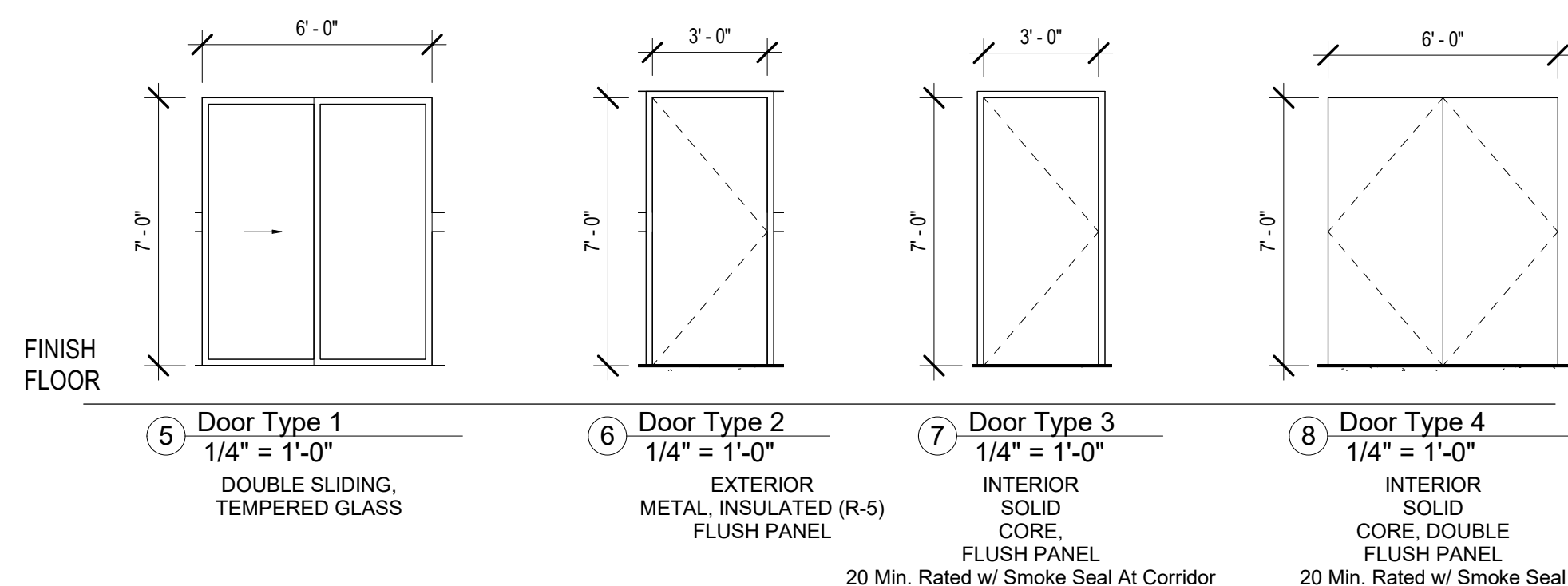
GENERAL NOTES

A. NEW CONSTRUCTION.

DOOR SCHEDULE

Table with columns: DOOR NUMBER, DOOR TYPE, DOOR SIZE, HDWR, SET, REMARKS. Lists door types 1 through 35 with specifications.

NOTE: 1. VERIFY DOOR SWING AND QUANTITIES WITH FLOOR PLANS. 2. STANLEY WI-Q TECHNOLOGY SECURITY TO BE USED; * LOBBY DOORS 3 & 16 * IT ROOM DOOR 14 * CONFERENCE ROOM DOOR 8 * CORRIDOR DOORS 12 & 26 3. ADA REQUIRES DOORS TO HAVE A CLEARANCE WIDTH OF 32" AND 5 LBS. OR LESS TO OPEN. CLEARANCE INCLUDES PUSH BAR. 4. ADA REQUIRES MANUAL DOOR CLOSERS TO BE A MAX OF 5 LBS. OR LESS, UNLESS AUTOMATED, TYP. 5. ADA REQUIRES 12" CLEARANCE ON LATCH SIDE OF DOOR, DISREGARD IF AUTOMATIC DOOR.



5 Door Type 1 1/4" = 1'-0" DOUBLE SLIDING, TEMPERED GLASS 6 Door Type 2 1/4" = 1'-0" EXTERIOR METAL, INSULATED (R-5) FLUSH PANEL 7 Door Type 3 1/4" = 1'-0" INTERIOR SOLID CORE, FLUSH PANEL 20 Min. Rated w/ Smoke Seal At Corridor 8 Door Type 4 1/4" = 1'-0" INTERIOR SOLID CORE, DOUBLE FLUSH PANEL 20 Min. Rated w/ Smoke Seal

DOOR TYPES

HARDWARE SETS

Set: 1.0

Hardware list for Set 1.0: 1 Door, 1 SFIC Permanent Keyed Core, 1 Mortise Cylinder, 1 Hardware.

Set: 2.0

Hardware list for Set 2.0: 3 Hinge, 1 Access Control Cyl Lock, 1 SFIC Permanent Keyed Core, 1 Surface Closer / Stop, 1 Kick Plate, 1 Threshold, 1 Rain Guard, 1 Gasketing, 1 Latch Protector.

Set: 3.0

Hardware list for Set 3.0: 3 Hinge, 1 Office Lock, 1 SFIC Permanent Keyed Core, 1 Surface Closer / Stop, 1 Kick Plate, 1 Threshold, 1 Rain Guard, 1 Gasketing, 1 Sweep, 1 Latch Protector.

Set: 4.0

Hardware list for Set 4.0: 3 Hinge, 1 Access Control Cyl Lock, 1 SFIC Permanent Keyed Core, 1 Surface Closer, 1 Kick Plate, 1 Stop, 1 Gasketing.

Set: 5.0

Hardware list for Set 5.0: 3 Hinge, 1 Full Mortise, 1 Storeroom Lock, 1 SFIC Permanent Keyed Core, 1 Surface Closer, 1 Kick Plate, 1 Stop, 1 Gasketing.

Set: 6.0

Hardware list for Set 6.0: 6 Hinge, 1 Flush Bolt, 1 Dust Proof Strike, 1 Office Lock, 1 SFIC Permanent Keyed Core, 1 Coordinator, 2 Surface Closer, 2 Kick Plate, 2 Stop, 1 Gasketing, 1 Astragal.

HARDWARE SETS

Set: 7.0

Hardware list for Set 7.0: 3 Hinge, Full Mortise, 1 Office Lock, 1 SFIC Permanent Keyed Core, 1 Surface Closer, 1 Kick Plate, 1 Stop, 1 Gasketing.

Set: 8.0

Hardware list for Set 8.0: 3 Hinge, 1 Passage Lock, 1 Surface Closer, 1 Mop Plate, 1 Kick Plate, 1 Stop, 1 Gasketing.

Set: 9.0

Hardware list for Set 9.0: 3 Hinge, Full Mortise, 1 Office Lock, 1 SFIC Permanent Keyed Core, 1 Stop, 3 Silencer.

Set: 10.0

Hardware list for Set 10.0: 3 Hinge, Full Mortise, 1 Classroom Lock, 1 SFIC Permanent Keyed Core, 1 Surf Overhead Stop, 3 Silencer.

Set: 11.0

Hardware list for Set 11.0: 3 Hinge, Full Mortise, 1 Classroom Lock, 1 SFIC Permanent Keyed Core, 1 Surf Overhead Stop, 3 Silencer.

Set: 12.0

Hardware list for Set 12.0: 1 Hardware.

Manufacturer's Abbreviations:

MK - McKinney
PE - Pemko
RO - Rockwood
BE - dormakaba Best
RU - Corbin Russwin
RF - Rixson

SUINA DESIGN + ARCHITECTURE logo and contact information: 4411 McLEOD ROAD NE, SUITE A-1 ALBUQUERQUE, NEW MEXICO 87109 WWW.SUINADESIGN.COM T: 505-766-6968



SHEET TITLE: DOOR / WINDOW TYPES & SCHEDULES PROJECT NAME: Chinle HMO Building Navajo Housing Authority

Revisions table with columns: Revisions, Description, Date, Mark.

PROJECT NUMBER: NHA Chinle FILE: NHA Chinle HMO.rvt DRWN. BY: SD-A CHKD BY: ES DATE: 1/11/2021 SHEET OF A-601



② FLOOR PLAN - Paint Finish
1/8" = 1'-0"



① FLOOR PLAN - Floor Finish
1/8" = 1'-0"

GENERAL NOTES

A. NEW CONSTRUCTION.

KEYED NOTES

12.19 124813 ENTRANCE FLOOR MATS (5'-0" x 6'-0") AND FRAMES; ROLL-UP (REMOVABLE) RAIL MATS, RESILIENT ENTRANCE MATS AND FRAMES. RECESS FLOOR SLAB AS REQUIRED.

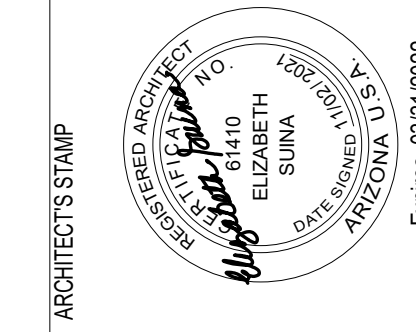
PAINT SCHEDULE: (REFER TO ROOM FINISH SCHEDULE SHEET A-601)
 PAINT COLOR 1: SHERWIN WILLIAMS SHELL WHITE 8917
 PAINT COLOR 2: SOFTER TAN 6141

ACCENT COLOR 1: SHERWIN WILLIAMS SIERRA WOOD 7598
 ACCENT COLOR 2: SHERWIN WILLIAMS THERMAL SPRING 6761
 ACCENT COLOR 3: SHERWIN WILLIAMS SUNFLOWER 6678
 ACCENT COLOR 4: ROCKY RIVER 6215
 ACCENT COLOR 5: EARTHEN JUG 7703
 ACCENT COLOR 6: GOLD COAST 6376
 ACCENT COLOR 7: ENDLESS SEA 9150
 ACCENT COLOR 8: CLOUD BURST 6487

COUNTER TOP COLORS:
 WOMEN'S RESTROOM = CHAMPAGNE ICE
 MEN'S RESTROOM = FLINT ROCK
 KITCHEN / BREAK & CONFERENCE = SEA STONE

FLOOR FINISH LEGEND: (REFER TO ROOM FINISH SCHEDULE SHEET A-601)

- NAVAJO BRACELET WATER WAVE DESIGN
- VINYL TILE 1: SANDRIFT WHITE 51858.
- VINYL TILE 2: BLUE DREAMS 57508.
- CERAMIC TILE @ BATHROOMS, (WALLS & FLOORS).
- CARPET; MOHAWK GROUP, AWARENESS TILE, TANTASTIC 152.
- EXPOSED CONCRETE, STAINED AND SEALED.
- 5'-0" x 6'-0" ENTRANCE FLOOR MAT.



Revisions	Mark	Date	Description

PROJECT NUMBER: NHA Chinle
 FILE: NHA Chinle HMO.rvt
 DRWN. BY: SD+A
 CHKD BY: ES
 DATE: 1/11/2021

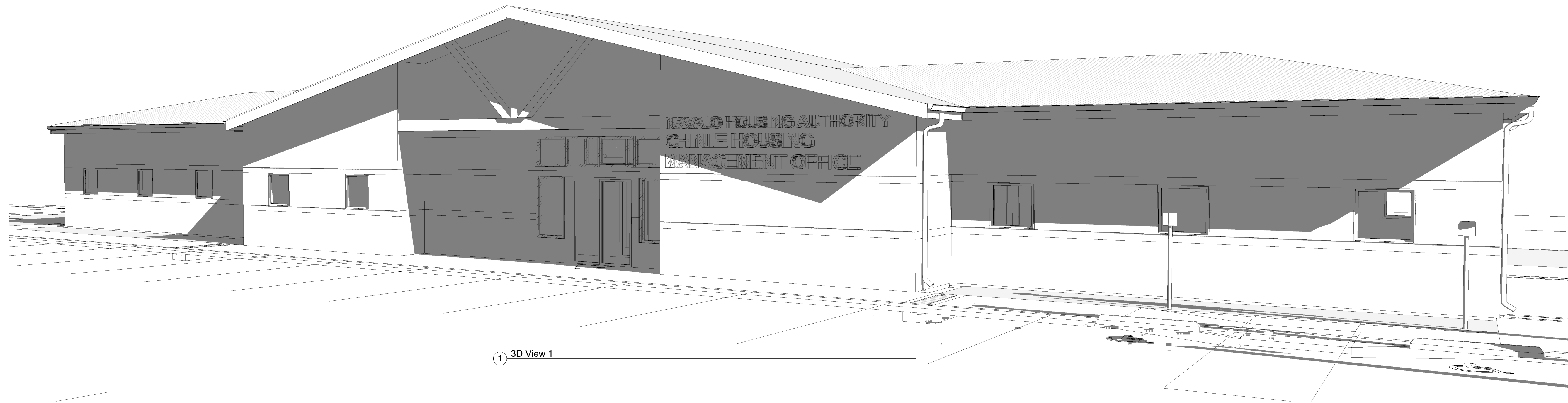
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A-602

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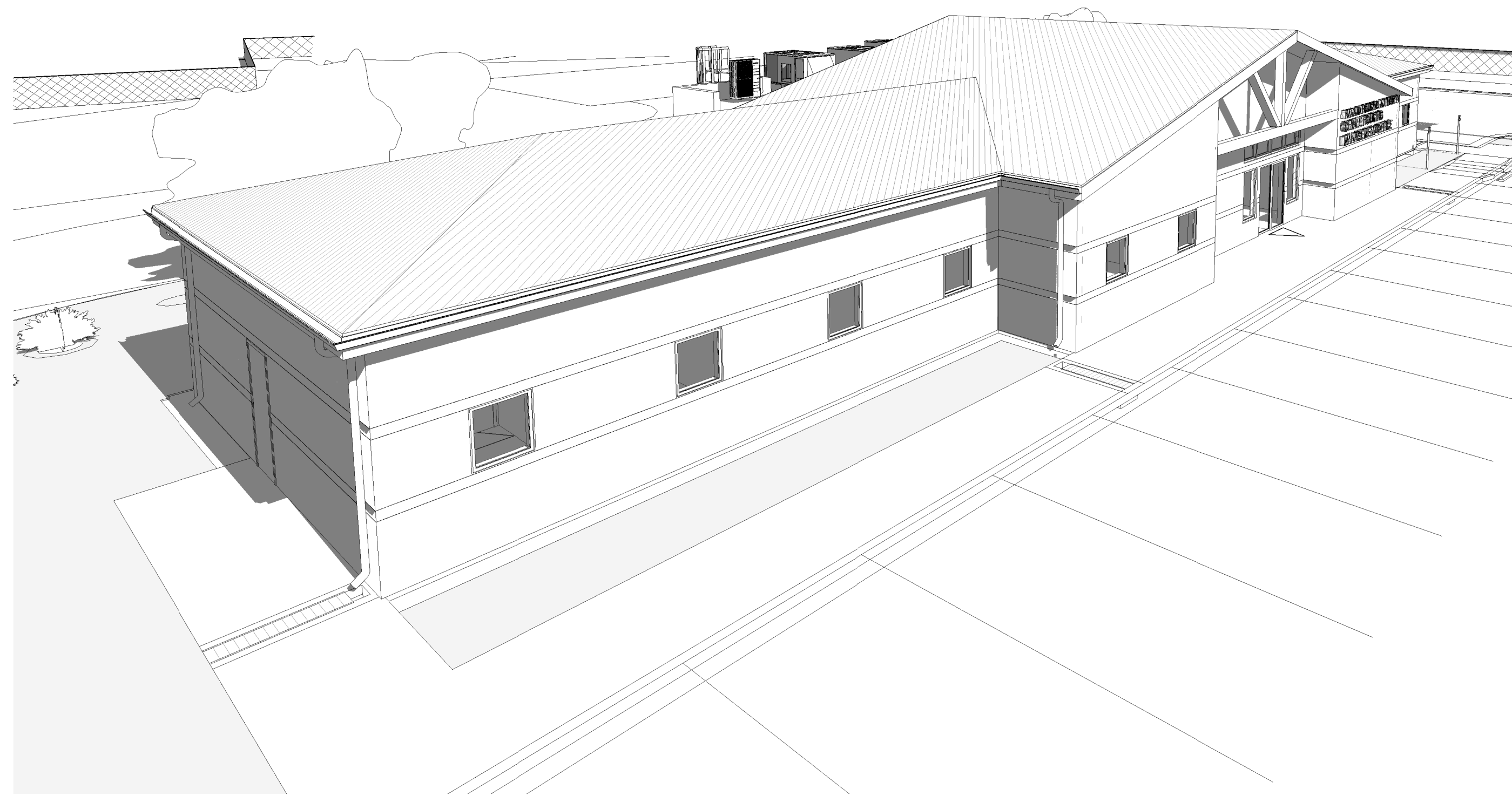
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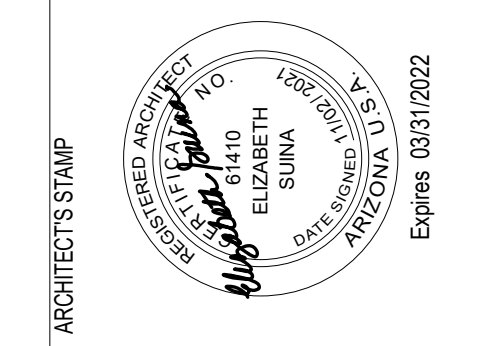


① 3D View 1



② 3D View 2

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SHEET TITLE:
3D VIEWS
 PROJECT NAME:
**Chinle HMO Building
 Navajo Housing Authority**

Revisions		
Mark	Date	Description

PROJECT NUMBER: NHA Chinle
 FILE: NHA Chinle HMO.rvt
 DRWN. BY: SD+A
 CHKD BY: ES
 DATE: 1/11/2021

SHEET OF
A-901

D

C

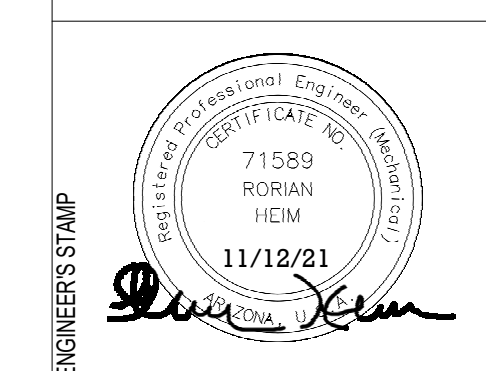
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PLUMBING LEGEND		
SYMBOL	DESCRIPTION	ABBREVIATION
	SOIL, WASTE OR SANITARY SEWER	SAN
	VENT (SANITARY)	V
	COLD WATER	DCW
	HOT WATER (120°F)	DHW
	HOT WATER RETURN (110°F)	DHWR
	NATURAL GAS - LOW PRESSURE (7"W.C.)	G
	GATE VALVE	GL
	BALL VALVE	BV
	CAPPED OR PLUGGED TEE	CT
	UNION (SCREWED)	UN
	HOSE BIB	HB
	RECESSED BOX HOSE BIB OR WALL HYDRANT	WH (HB)
	GAS COCK, GAS STOP	GS
	CLEAN-OUT TO GRADE WITH CONCRETE COLLAR	COTG
	GAS PRESSURE REGULATOR	GPR
	FLOW - IN DIRECTION OF ARROW	
	VALVE IN RISER (TYPE AS SPECIFIED OR NOTED)	
	RISER DOWN (ELBOW)	
	RISER UP (ELBOW)	
	RISE OR DROP	
	BRANCH - TOP CONNECTION	
	BRANCH - BOTTOM CONNECTION	
	BRANCH - SIDE CONNECTION	
	VENT THRU ROOF	VTR
	WATER HAMMER ARRESTOR	WHA
	WALL CLEANOUT	WCO

GENERAL NOTES	
1.	EQUIPMENT CAPACITIES BASED FOR OPERATION AT 5,500 FEET ELEVATION.
2.	ALL WORK AND MATERIALS SHALL BE PERFORMED AND PROVIDED TO COMPLY WITH ASHRAE RECOMMENDATIONS AND THE CURRENT MECHANICAL AND PLUMBING CODES.
3.	ALL ROOF TOP UNITS SHALL BE INSTALLED WITH ELECTRICAL CONNECTIONS MADE AND TESTED. LOW VOLTAGE ELECTRICAL CONNECTIONS AND CONTROL WIRING SHALL BE INSTALLED AS REQUIRED.
4.	THE DRAWINGS ARE DIAGRAMMATIC FOR PIPING AND EQUIPMENT LOCATIONS. COORDINATE FINAL PLACEMENT WITH OTHER TRADES THROUGH THE GENERAL CONTRACTOR TO AVOID CONFLICTS AND MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY TO VALVES AND EQUIPMENT.
5.	TEST RUN, CALIBRATE, AND BALANCE AIR FLOW FOR ALL EQUIPMENT. PROVIDE A COMPLETE BOUND REPORT IN AN NEBB FORMAT, INCLUDING A SUMMARY OF DEFICIENCIES. DELIVER EQUIPMENT OPERATION AND MAINTENANCE MANUALS. EQUIPMENT WARRANTIES SHALL COMMENCE WITH THE OWNER'S OCCUPANCY OF THE PROJECT.
6.	CONTRACTOR SHALL FURNISH ALL NECESSARY STRUCTURES, INSERTS, SLEEVES, AND HANGING DEVICES FOR INSTALLATION OF MECHANICAL EQUIPMENT. CONTRACTOR SHALL COORDINATE INSTALLATION OF SUCH DEVICES WITH GENERAL CONTRACTOR. CONTRACTOR MUST FURTHER VERIFY WITH THE STRUCTURAL ENGINEER THAT THE DEVICES ARE ADEQUATE AS INTENDED AND DO NOT OVERLOAD THE BUILDING'S STRUCTURAL COMPONENTS IN ANY WAY.
7.	ALL MECHANICAL EQUIPMENT LOCATED ON ROOF SHALL BE PROVIDED WITH A BUILT-UP OR FACTORY PRE-FABRICATED CURB, FLASHED AND COUNTERFLASHED. EQUIPMENT SHALL BE MOUNTED LEVEL.
8.	FIXTURES SHALL BE MOUNTED OR HUNG SECURELY AND IN-LINE AND PLUMB. WALL MOUNTED FIXTURES SHALL BE PROVIDED w/ MANUFACTURER'S RECOMMENDED CONCEALED CARRIERS. EXPOSED PIPING AT HANDICAP FIXTURES SHALL BE INSULATED.
9.	ALL WASTE PIPE WITHIN THE PERIMETER OF THE BUILDING SHALL BE SLOPED 1/4" (INCH) PER FOOT. ALL WASTE PIPE EXTERIOR TO THE BUILDING SHALL BE SLOPED 1/8" (INCH) PER FOOT.
10.	WASTE AND VENT PIPING: PVC SOLID CORE (CELL CORE IS NOT ALLOWED), SOLVENT WELD JOINTS
11.	WATER SUPPLY PIPING: BELOW GRADE SHALL BE TYPE "K" SOFT DRAWN COPPER WITH NO JOINTS BELOW GRADE AND WRAPPED WITH PVC PIPE WRAP OR INSTALLED IN A MYLAR SLEEVE. ABOVE GRADE PIPING SHALL BE TYPE "L" HARD DRAWN COPPER WITH SOLDER JOINTS OR PRESS FITTINGS. THE USE OF SHARKBIT-TYPE FITTINGS IS NOT ALLOWED. PEX PIPING (WITH EXPANSION TYPE FULL-PORT BRASS FITTINGS) IN ACCORDANCE WITH 2015 UNIFORM PLUMBING CODE IS AN APPROVED ALTERNATIVE.
12.	PROVIDE SHUT OFF VALVES AND UNION CONNECTIONS TO ALL EQUIPMENT. PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METALS PIPING CONNECTIONS
13.	PRESSURE TEST WASTE AND SUPPLY PIPING AT ROUGH-IN.
14.	PRESSURE TEST SUPPLY PIPING AFTER FINAL INSTALLATION OF ALL EQUIPMENT AND FIXTURES. FLUSH SUPPLY PIPING, REMOVE, INSPECT, AND CLEAN FAUCET AERATORS. CONTRACTOR TO ENSURE ALL SHUT-OFF VALVES AND ISOLATION VALVES ARE IN THE "CLOSED" POSITION FOR THIS TEST.
15.	INSULATE ALL HOT AND COLD WATER PIPING w/ 1" (R-4) PREFORMED FOAM OR RIGID INSULATION. BUTT END AND LONGITUDINAL SEAMS SHALL BE SECURELY SEALED
16.	FLUSH AND STERILIZE ALL WATER PIPING BEFORE FINAL INSPECTION IN ACCORDANCE WITH AWWA C651 OR C652.
17.	NOTIFY THE ENGINEER IN WRITING IF DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND ANY ASSOCIATED LEGAL OR SAFETY REQUIREMENTS ARE DETECTED. THE ENGINEER WILL MODIFY THE CONTRACT DOCUMENTS ACCORDINGLY. IF THE CONTRACTOR PROCEEDS WITH ANY WORK WHICH IS IN VARIANCE OF KNOWN LEGAL OR SAFETY REQUIREMENTS, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR THEIR WORK AND WILL PROMPTLY CORRECT THE WORK, WHEN NOTIFIED WITHOUT ADDITIONAL COST TO THE OWNER.

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ENGINEER'S STAMP

SHEET TITLE:
PLUMBING PROJECT LEGEND

PROJECT NAME:
**Chinle HMO Building
Navajo Housing Authority**

Revisions		
Mark	Date	Description

PROJECT NUMBER: 2020-0416
FILE:
DRWN. BY: RMH
CHKD BY: RMH
DATE: 11/12/2021
SHEET OF
P-001

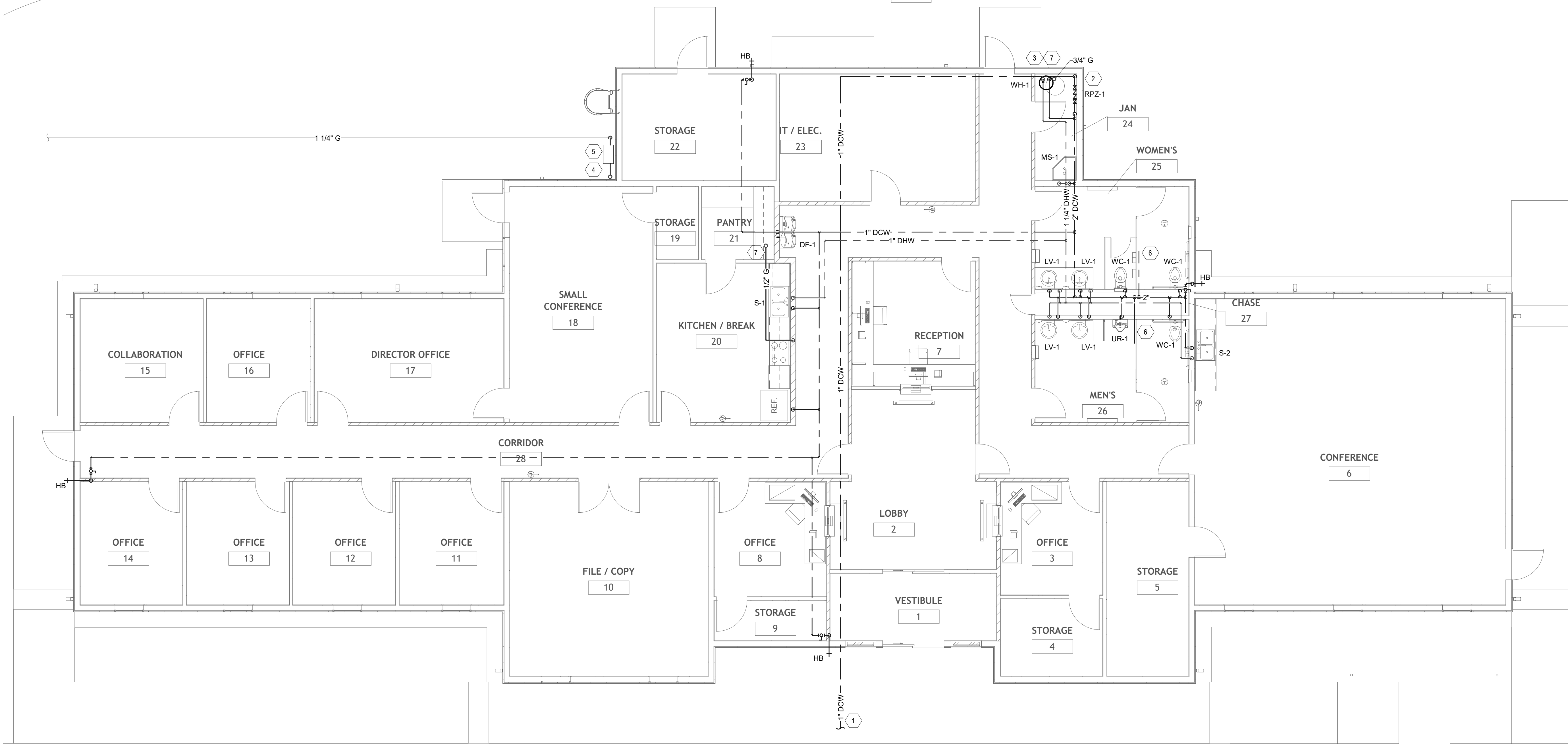
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GENERAL PROJECT NOTES:

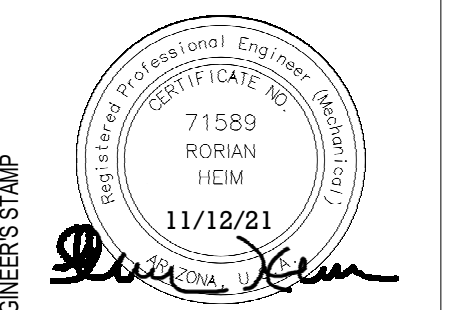
- A. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- B. VERIFY EACH EQUIPMENT CONFIGURATION REQUIREMENTS BEFORE INSTALLATION.
- C. COORDINATE LOCATION OF ROOF PENETRATIONS WITH ROOF STRUCTURE.
- D. ALL ROOF PENETRATIONS SHALL BE FLASHED AND COUNTERFLASHED AS REQUIRED TO BE WATERTIGHT.
- E. WRAP ALL PIPING LOCATED UNDER FLOOR.
- F. ALL PIPING SHALL BE CONCEALED EXCEPT WHERE EXPRESSLY NOTED OR IN UNFINISHED AREAS WHERE CONCEALMENT IS NOT POSSIBLE.
- G. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED FOR ACCESS TO VALVES AND EQUIPMENT WHERE REQUIRED.
- H. ALL PIPING SHALL PITCH TO DRAIN AND VALVING SHALL BE PROVIDED FOR DRAINAGE.
- I. VENT PIPING ROUTED IN CEILING SPACE UNLESS NOTED OTHERWISE.
- J. ALL 3" SANITARY PIPING OR LESS SLOPED AT 1/4" PER FOOT.
- K. REFER TO PLUMBING FIXTURE SCHEDULE & SPECIFICATIONS ON DRAWING P-701.
- L. PROVIDE POINT OF USE THERMOSTATIC MIXING VALVE TO LIMIT TEMPERATURE TO 110° F AT EACH HAND SINK AND LAVATORY.
- M. PIPING SIZED IN ACCORDANCE WITH 2015 UPC TABLES 610.3 AND 610.4.

KEYED NOTES ON SHEET:

- 1. DCW FROM SITE. REFER TO CIVIL DRAWINGS.
- 2. DCW UP TO BACKFLOW PREVENTER. REFER TO DCW BACKFLOW PREVENTER DETAIL 1/P-501. ROUTE DISCHARGE TO MOP SINK, REFER TO CATASTROPHIC DRAIN DETAIL 2/P-501.
- 3. DCW DOWN TO WATER HEATER. REFER TO WATER HEATER DETAIL 3/P-501.
- 4. NG UP TO RTUS ON ROOF. REFER TO PP141 FOR RTU GAS CONNECTIONS.
- 5. NATURAL GAS FROM SITE TO GAS REGULATOR. REFER TO GAS REGULATOR AT BUILDING DETAIL 4/P-501. REFER TO CIVIL FOR CONTINUATION.
- 6. DCW UNDER SLAB TO TRAP PRIMER. REFER TO DRAIN SCHEDULES.
- 7. NG DOWN FROM ROOF ABOVE TO EQUIPMENT.



1 PLUMBING PIPING PLAN - LEVEL 1
3/16" = 1'-0"



SHEET TITLE: **PLUMB PIPING PLAN - LEVEL 1**
 PROJECT NAME: **Chinle HMO Building Navajo Housing Authority**

Revisions	Mark	Date	Description

PROJECT NUMBER: 2020-0416
 FILE:
 DRWN. BY: RMH
 CHKD BY: RMH
 DATE: 11/12/2021
 SHEET OF
PP111

DATE PLOTTED: 11/13/2021 7:20:49 AM

D

C

B

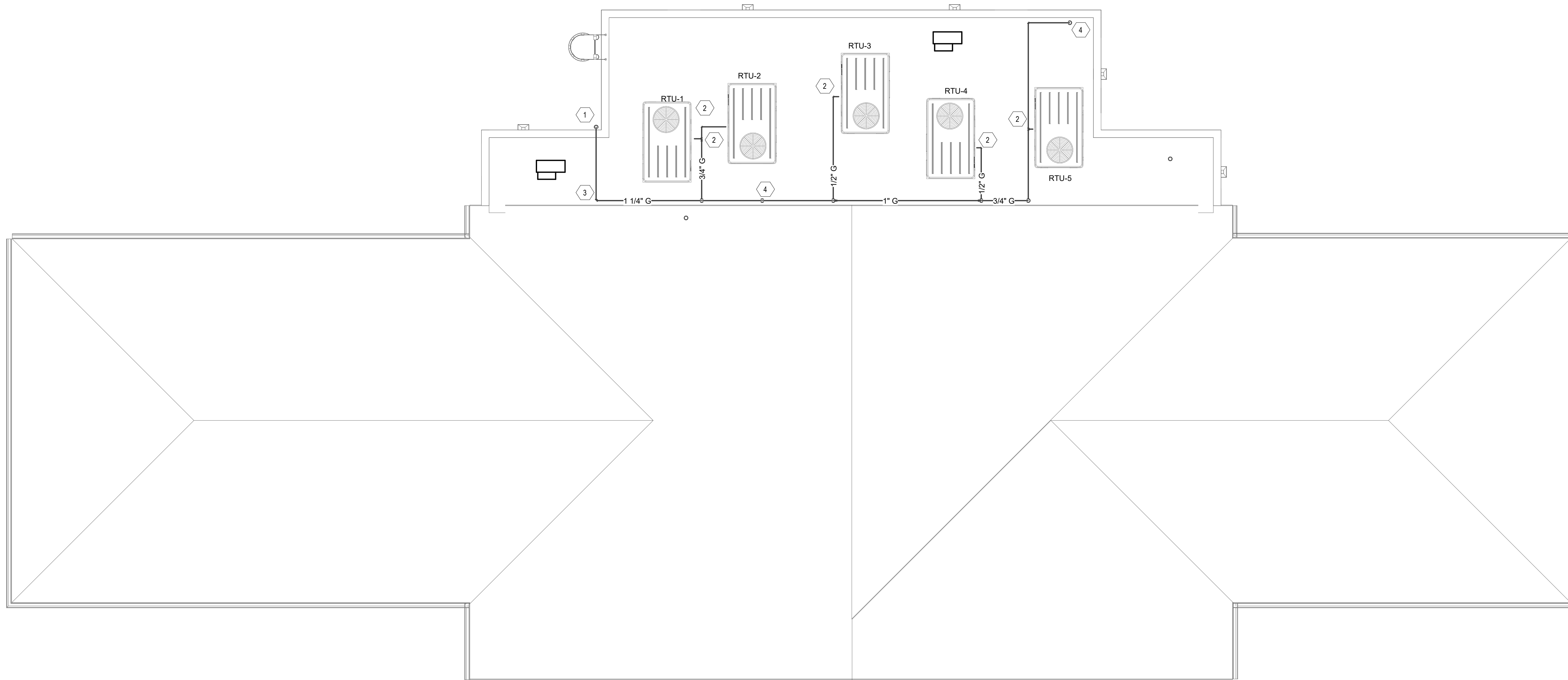
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GENERAL PROJECT NOTES:

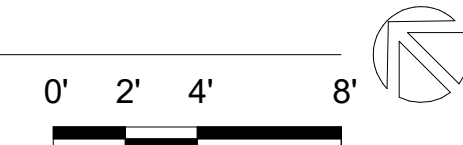
- A. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- B. VERIFY EACH EQUIPMENT CONFIGURATION REQUIREMENTS BEFORE INSTALLATION.
- C. COORDINATE LOCATION OF ROOF PENETRATIONS WITH ROOF STRUCTURE.
- D. ALL ROOF PENETRATIONS SHALL BE FLASHED AND COUNTERFLASHED AS REQUIRED TO BE WATERTIGHT.
- E. WRAP ALL PIPING LOCATED UNDER FLOOR.
- F. ALL PIPING SHALL BE CONCEALED EXCEPT WHERE EXPRESSLY NOTED OR IN UNFINISHED AREAS WHERE CONCEALMENT IS NOT POSSIBLE.
- G. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED FOR ACCESS TO VALVES AND EQUIPMENT WHERE REQUIRED.
- H. ALL PIPING SHALL PITCH TO DRAIN AND VALVING SHALL BE PROVIDED FOR DRAINAGE.
- I. VENT PIPING ROUTED IN CEILING SPACE UNLESS NOTED OTHERWISE.
- J. ALL 3" SANITARY PIPING OR LESS SLOPED AT 1/4" PER FOOT.
- K. REFER TO PLUMBING FIXTURE SCHEDULE & SPECIFICATIONS ON DRAWING P-701.

KEYED NOTES ON SHEET:

- 1. NATURAL GAS UP FROM BELOW. REFER TO PL111 FOR CONTINUATION.
- 2. CONNECT TO EQUIPMENT. REFER TO EQUIPMENT GAS CONNECTION DETAIL 6/P-501.
- 3. REFER TO ROOFTOP GAS PIPING SUPPORT DETAIL 5/P-501.
- 4. NATURAL GAS INTO BUILDING TO SERVE EQUIPMENT IN BUILDING. REFER TO PP111 FOR CONTINUATION.



1 PLUMB - ROOF PLAN
3/16" = 1'-0"



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SHEET TITLE:
PLUMB PLAN - ROOF
 PROJECT NAME:
Chinle HMO Building
Navajo Housing Authority

Revisions	Mark	Date	Description

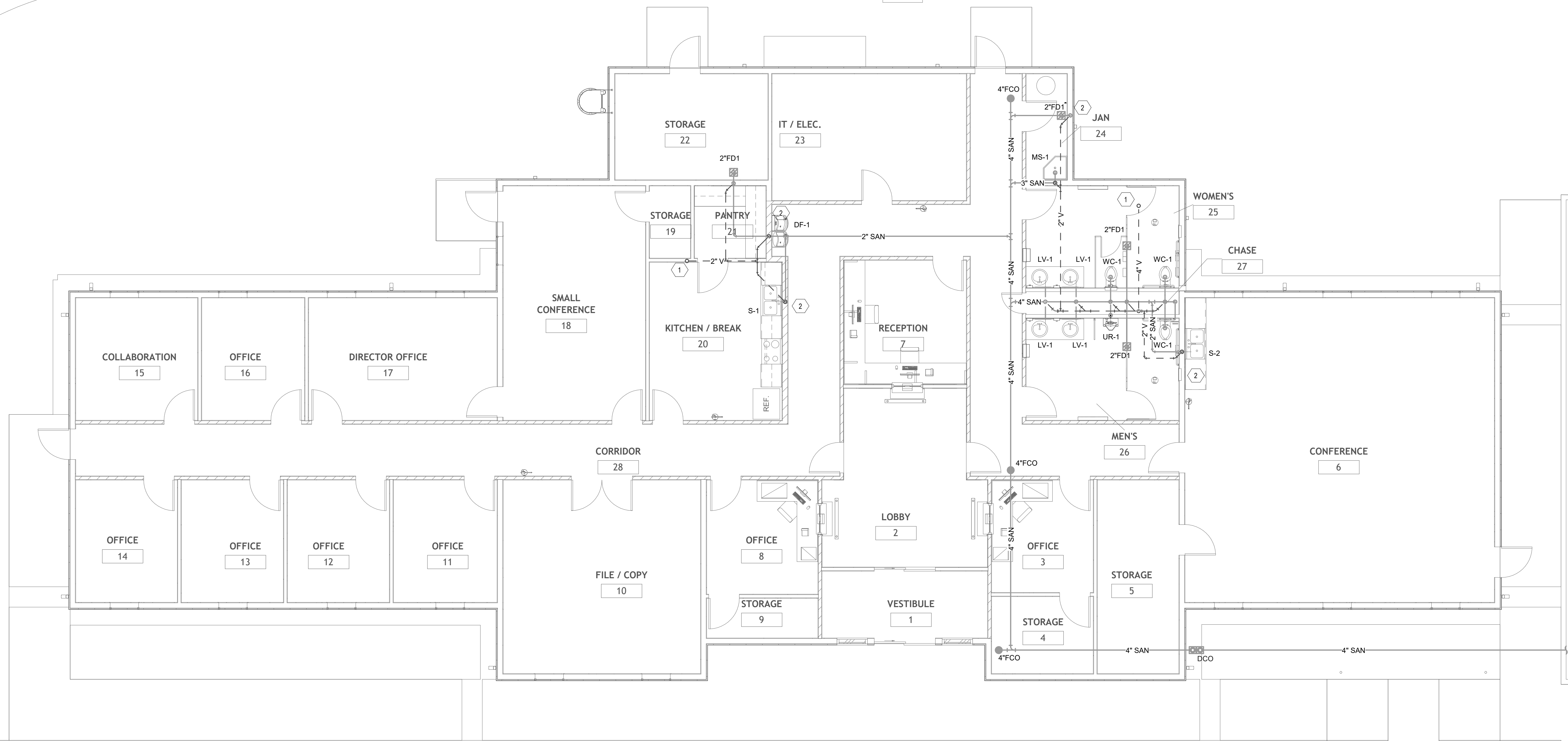
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 FILE:
 DRWN. BY: RMH
 CHKD BY: RMH
 DATE: 11/12/2021
 SHEET OF
PP141

GENERAL PROJECT NOTES:

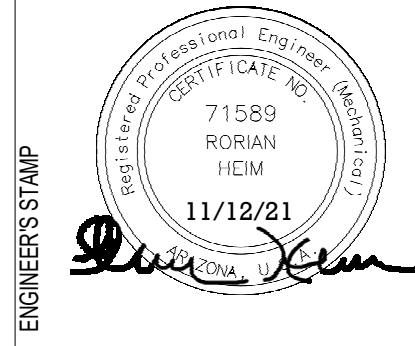
- A. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- B. VERIFY EACH EQUIPMENT CONFIGURATION REQUIREMENTS BEFORE INSTALLATION.
- C. COORDINATE LOCATION OF ROOF PENETRATIONS WITH ROOF STRUCTURE.
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- G. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED FOR ACCESS TO VALVES AND EQUIPMENT WHERE REQUIRED.
- H. ALL PIPING SHALL PITCH TO DRAIN AND VALVING SHALL BE PROVIDED FOR DRAINAGE.
- I. VENT PIPING ROUTED IN CEILING SPACE UNLESS NOTED OTHERWISE.
- J. ALL 3" SANITARY PIPING OR LESS SLOPED AT 1/4" PER FOOT.
- K. REFER TO PLUMBING FIXTURE SCHEDULE & SPECIFICATIONS ON DRAWING P-701.

KEYED NOTES ON SHEET:

- 1. VTR. REFER TO VENT THROUGH ROOF DETAIL 3/P-502.
- 2. WALL CLEANOUT. PROVIDE AT EACH FIXTURE. REFER TO WALL CLEANOUT DETAIL 2/P-502.
- 3. SAN OUT TO SITE. REFER TO DOUBLE CLEANOUT TO GRADE DETAIL 1/P-502 AND CIVIL DRAWINGS.



1 WASTE & VENT PLAN - LEVEL 1
3/16" = 1'-0"



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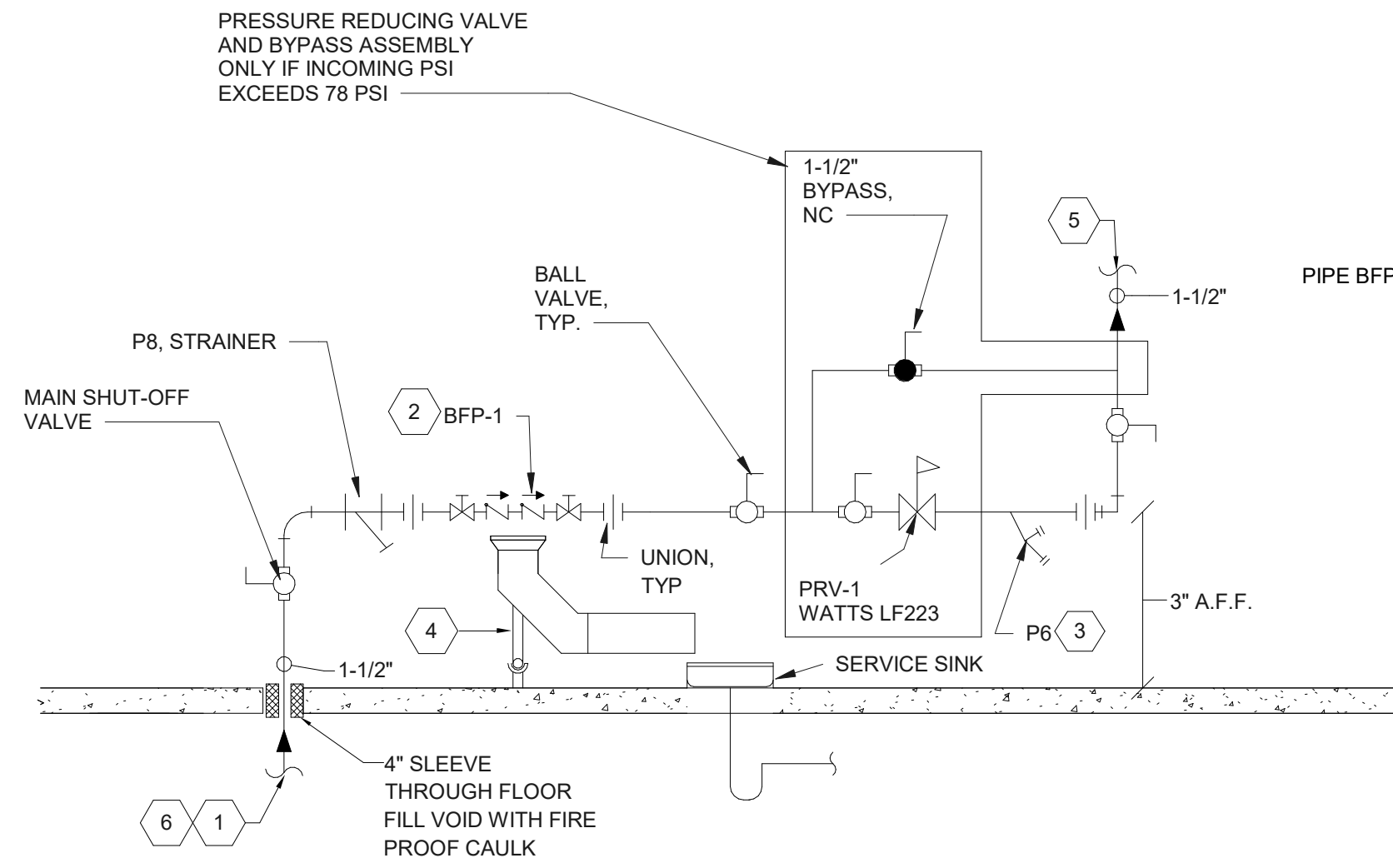
SHEET TITLE: **PLUMB WASTE & VENT PLAN - LEVEL 1**

PROJECT NAME:
Chinle HMO Building
Navajo Housing Authority

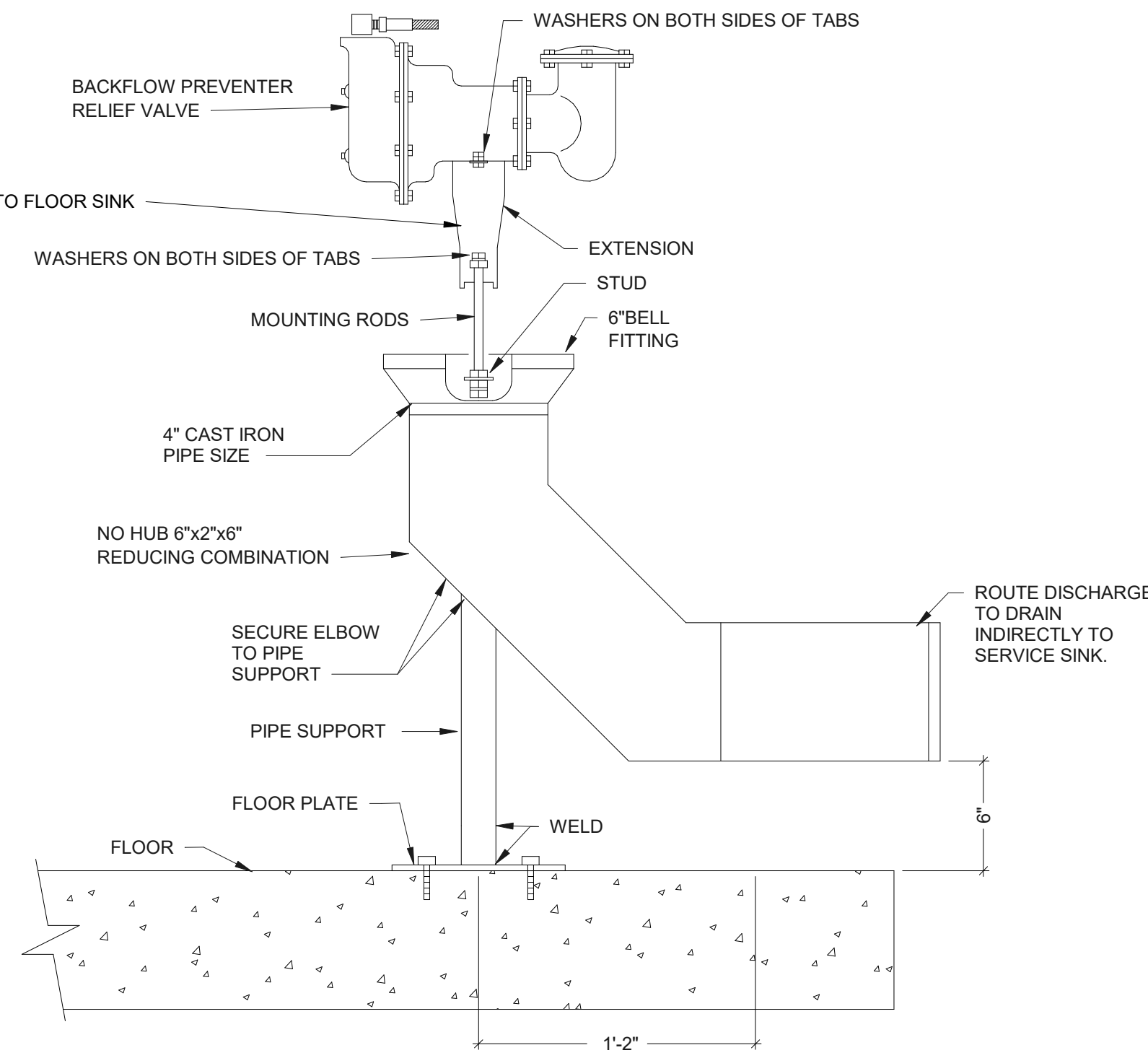
Revisions	Mark	Date	Description

PROJECT NUMBER: 2020-0416
 FILE:
 DRWN. BY: RMH
 CHKD BY: RMH
 DATE: 11/12/2021
 SHEET OF
PL111

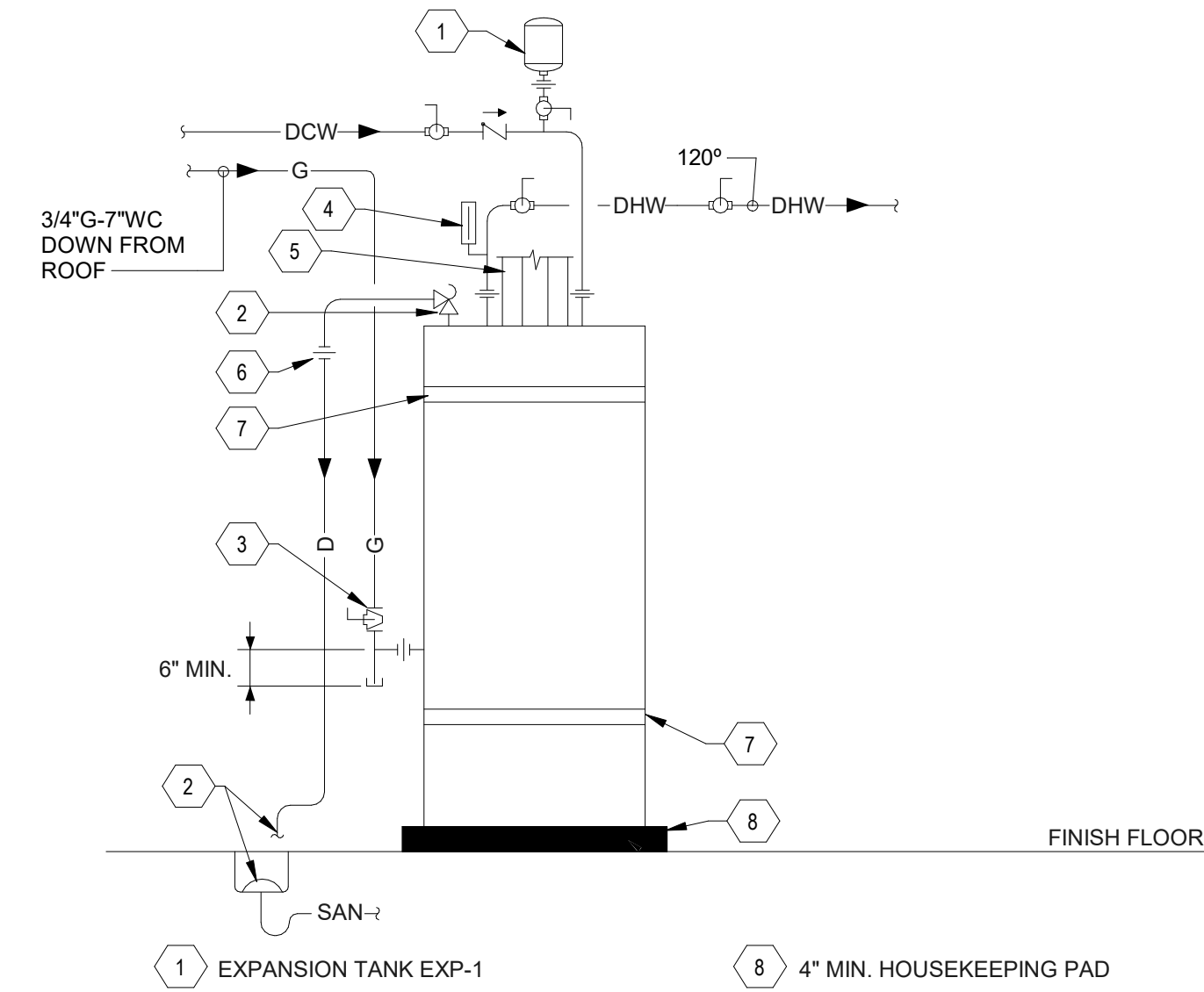
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- KEYED NOTES**
- 1-1/2" DOMESTIC WATER SERVICE ENTRANCE FROM METER. REFER TO CIVIL DRAWING FOR CONTINUATION.
 - 1-1/2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER, BFP-1.
 - VACUUM BREAKER HOSE BIBB, P6.
 - CATASTROPHIC DRAIN THRU EXTERIOR WALL. REFER TO DETAIL 2, THIS DRAWING FOR DCW.
 - REFER TO DRAWINGS PP111 AND ENLARGED PLAN P-401 FOR PIPING CONTINUATION.
 - 1-1/2" DOMESTIC COLD WATER ROUTED BELOW FLOOR TO BELOW GRADE. REFER TO CIVIL DRAWING FOR CONTINUATION.



2 CATASTROPHIC DRAIN DETAIL
NOT TO SCALE

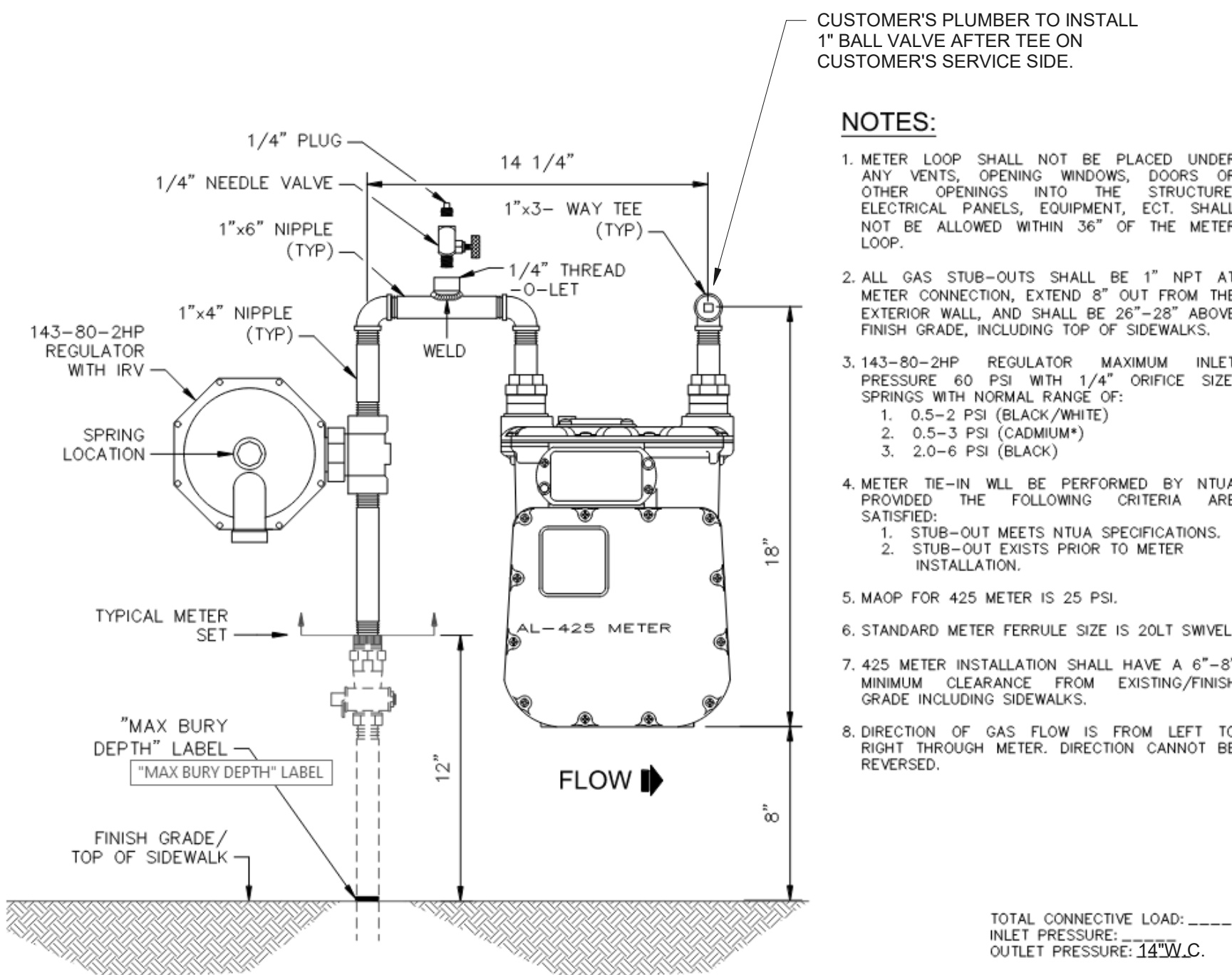


- EXPANSION TANK EXP-1
- FULL SIZED T&P RELIEF VALVE INDIRECTLY DISCHARGED TO FLOOR SINK, 2X PIPE DIA.
- PLUG VALVE W/DIRT LEG
- THERMOMETER (TYPICAL)
- COMBUSTION AIR INTAKE AND FLUE BY MECHANICAL
- UNION (TYPICAL)
- SEISMIC STRAPPING PER UPC 508.2 (IF REQUIRED)
- 4" MIN. HOUSEKEEPING PAD

NOTE: INSTALL THERMOSTATIC MIXING VALVE ASSEMBLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION. PROVIDE PIPING SCHEMATIC WITH SUBMITTALS

1 DOMESTIC WATER HEATER DETAIL
NOT TO SCALE

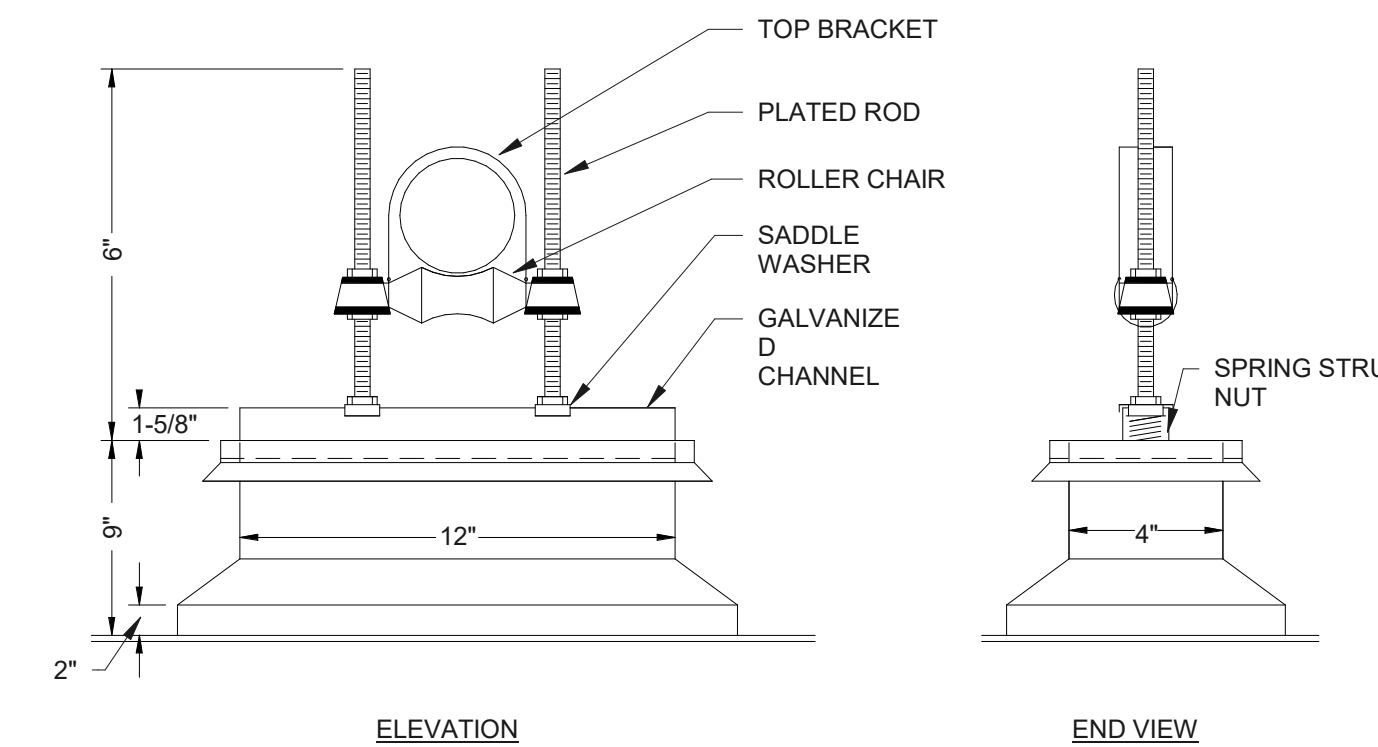
1 DCW BACKFLOW DETAIL
NOT TO SCALE



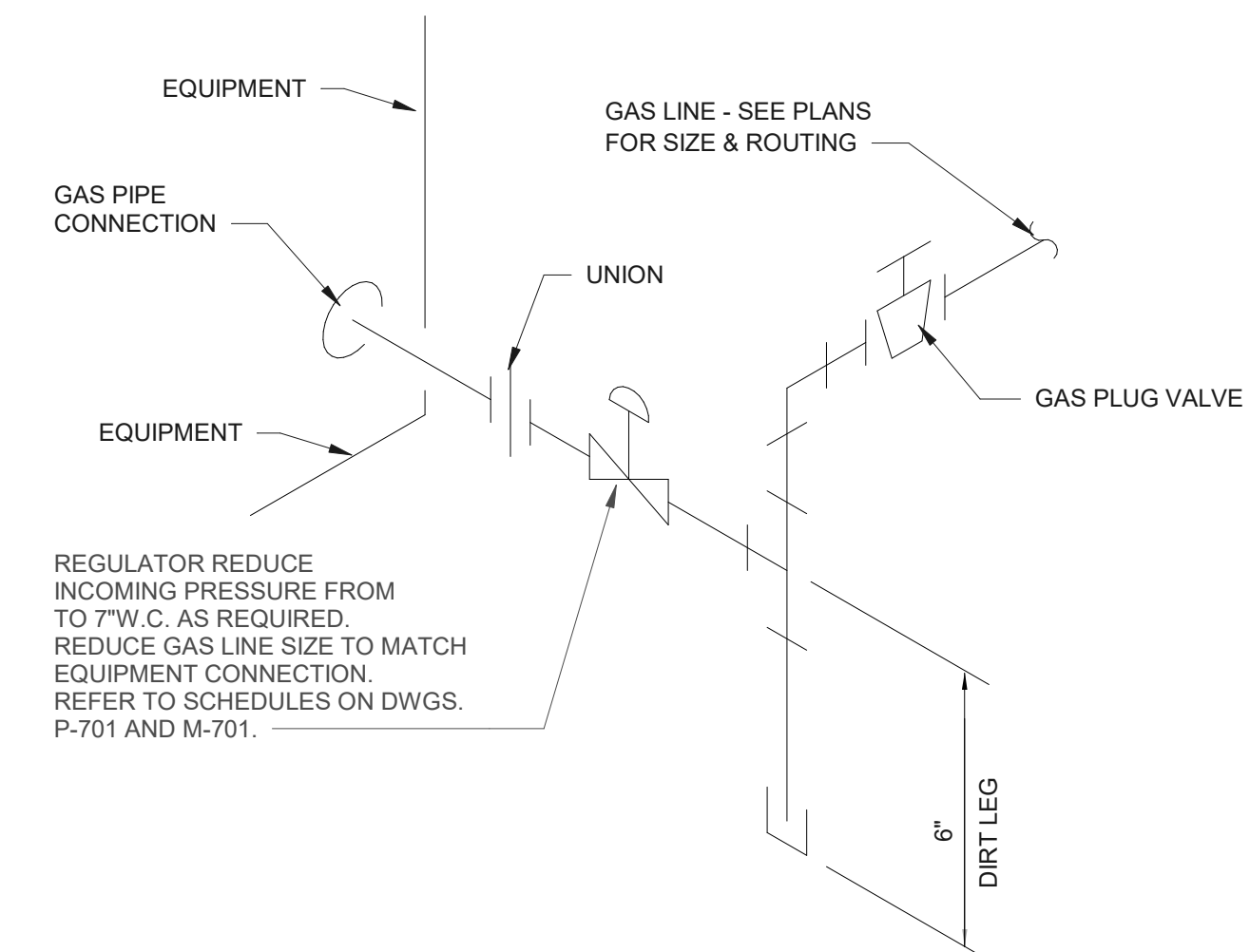
- NOTES:**
- METER LOOP SHALL NOT BE PLACED UNDER ANY VENTS, OPENING WINDOWS, DOORS OR OTHER OPENINGS INTO THE STRUCTURE, ELECTRICAL PANELS, EQUIPMENT, ECT. SHALL NOT BE ALLOWED WITHIN 36" OF THE METER LOOP.
 - ALL GAS STUB-OUTS SHALL BE 1" NPT AT METER CONNECTION, EXTEND 8" OUT FROM THE EXTERIOR WALL, AND SHALL BE 26"-28" ABOVE FINISH GRADE, INCLUDING TOP OF SIDEWALKS.
 - 143-80-2HP REGULATOR MAXIMUM INLET PRESSURE 60 PSI WITH 1/4" ORIFICE SIZE. SPRINGS WITH NORMAL RANGE OF:
 - 0.5-2 PSI (BLACK/WHITE)
 - 0.5-3 PSI (CADMIUM*)
 - 2.0-6 PSI (BLACK)
 - METER TIE-IN WILL BE PERFORMED BY NTUA PROVIDED THE FOLLOWING CRITERIA ARE SATISFIED:
 - STUB-OUT MEETS NTUA SPECIFICATIONS.
 - STUB-OUT EXISTS PRIOR TO METER INSTALLATION.
 - MAOP FOR 425 METER IS 25 PSI.
 - STANDARD METER FERRULE SIZE IS 20LT SWIVEL.
 - 425 METER INSTALLATION SHALL HAVE A 6"-8" MINIMUM CLEARANCE FROM EXISTING/FINISH GRADE INCLUDING SIDEWALKS.
 - DIRECTION OF GAS FLOW IS FROM LEFT TO RIGHT THROUGH METER. DIRECTION CANNOT BE REVERSED.

TOTAL CONNECTIVE LOAD:
INLET PRESSURE: 14" W.C.
OUTLET PRESSURE: 14" W.C.

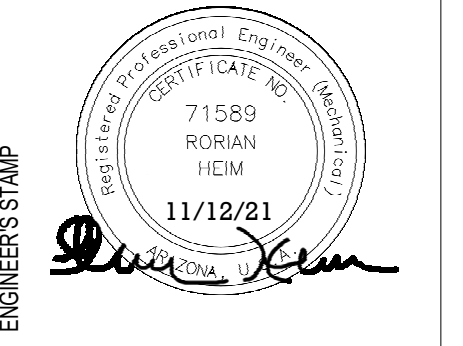
4 GAS REGULATOR AT BUILDING DETAIL
NOT TO SCALE



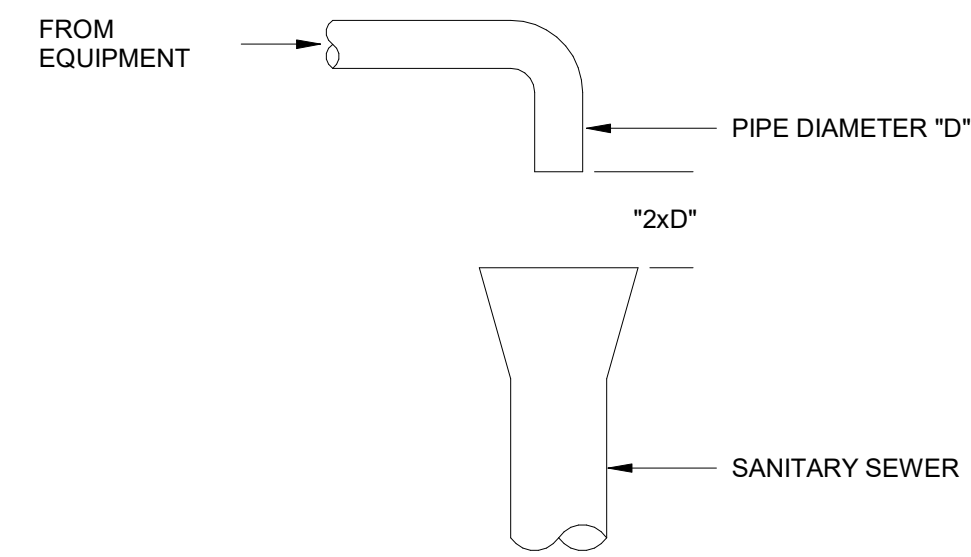
5 ROOFTOP GAS PIPING SUPPORT DETAIL
NOT TO SCALE



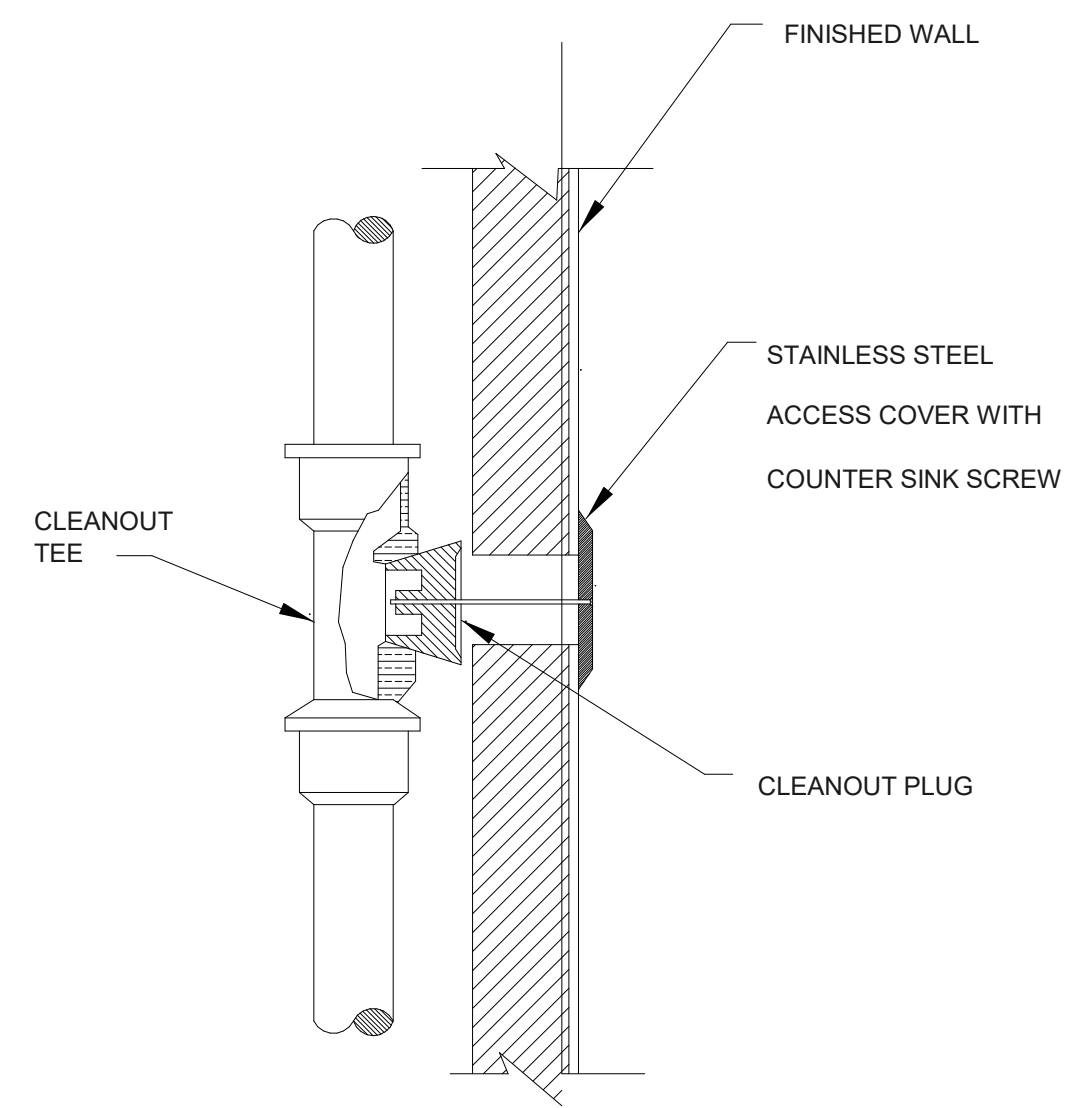
6 EQUIPMENT GAS CONNECTION DETAIL
NOT TO SCALE



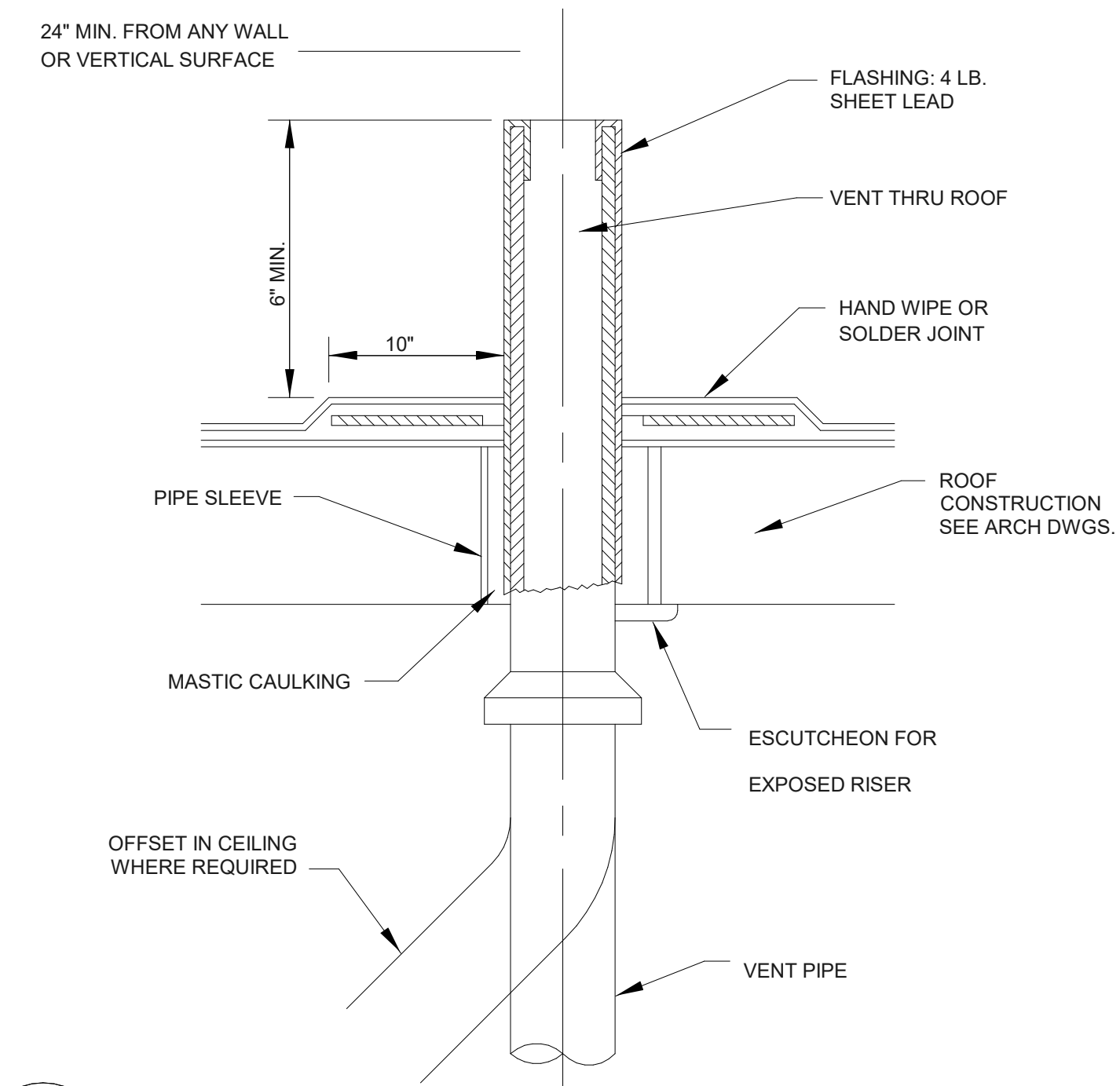
Revisions	Mark	Date	Description



1 AIR GAP DETAIL
NOT TO SCALE

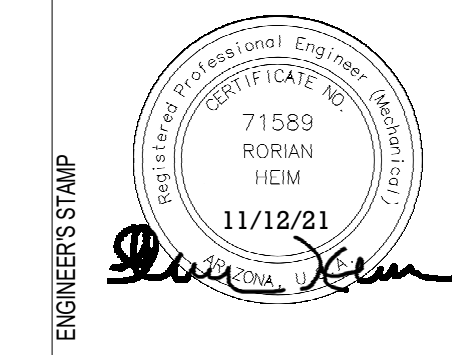


2 WALL CLEANOUT DETAIL
NOT TO SCALE



3 VENT THROUGH ROOF DETAIL
NOT TO SCALE

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PLUMBING DETAIL SHEET
PROJECT NAME:
Chinle HMO Building
Navajo Housing Authority

Revisions		Description
Mark	Date	

PROJECT NUMBER: 2020-0416
FILE:
DRWN. BY: RMH
CHKD BY: JNH
DATE: 11/12/2021
SHEET OF
P-502

PLUMBING FIXTURE SCHEDULE & SPECIFICATIONS

Table with columns: SYMBOL, TYPE, MANUFACTURER, MODEL, TRIM/FAUCET, FLOW/FLUSH RATE, ROUGH-IN, VENT, TRAP, REMARKS, ELECTRICAL (V, PH, HZ, AMPS). Includes items like WC-1, UR-1, LV-1, S-1, S-2, MS-1, DF-1, HB, RPZ-1.

WATER HEATER SCHEDULE

Table with columns: SYMBOL, LOCATION, SET POINT, FUEL, EFFICIENCY, MANUFACTURER, MODEL NO., STORAGE VOLUME (GAL.), INPUT (MBH), OPERATION WEIGHT, HOT WATER RECOVERY (RATE, ΔT °F), EXPANSION TANK, ELECTRICAL (V, PH, HZ, AMPS), REMARKS.

GAS EQUIPMENT SCHEDULE

Table with columns: SYMBOL, DESCRIPTION, EXISTING OR NEW, CONNECTION, QTY, BTUH, CFH, TOTAL. Includes RTU-1 through RTU-5, WH-1, and RANGE.

TOTAL CFH AT REGULATOR

497

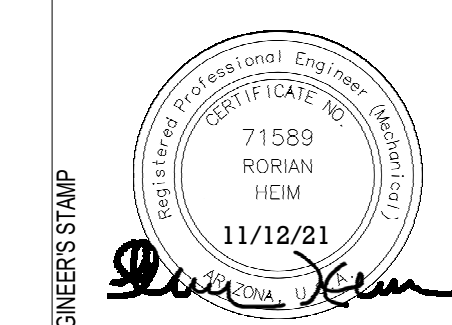
Summary table for gas equipment: PIPING, MAXIMUM DEVELOPED LENGTH, LF, DESIRED PRESSURE AT EQUIPMENT GAS PRESSURE REGULATOR, IN. W.C.

MASTER FLOOR DRAIN/SINK AND ROOF DRAIN SPECIFICATIONS

Table with columns: P_DRAIN FIXTURE, SYMBOL, MANUFACTURER, MODEL, VENT SIZE, REMARKS. Includes FLOOR DRAIN (FD1).



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ENGINEER'S STAMP

SHEET TITLE: PLUMBING SCHEDULE SHEET

PROJECT NAME: Chinle HMO Building Navajo Housing Authority

Revisions table with columns: Mark, Date, Description

PROJECT NUMBER: 2020-0416
FILE:
DRWN. BY: RMH
CHKD BY: RMH
DATE: 11/12/2021
SHEET OF
P-701

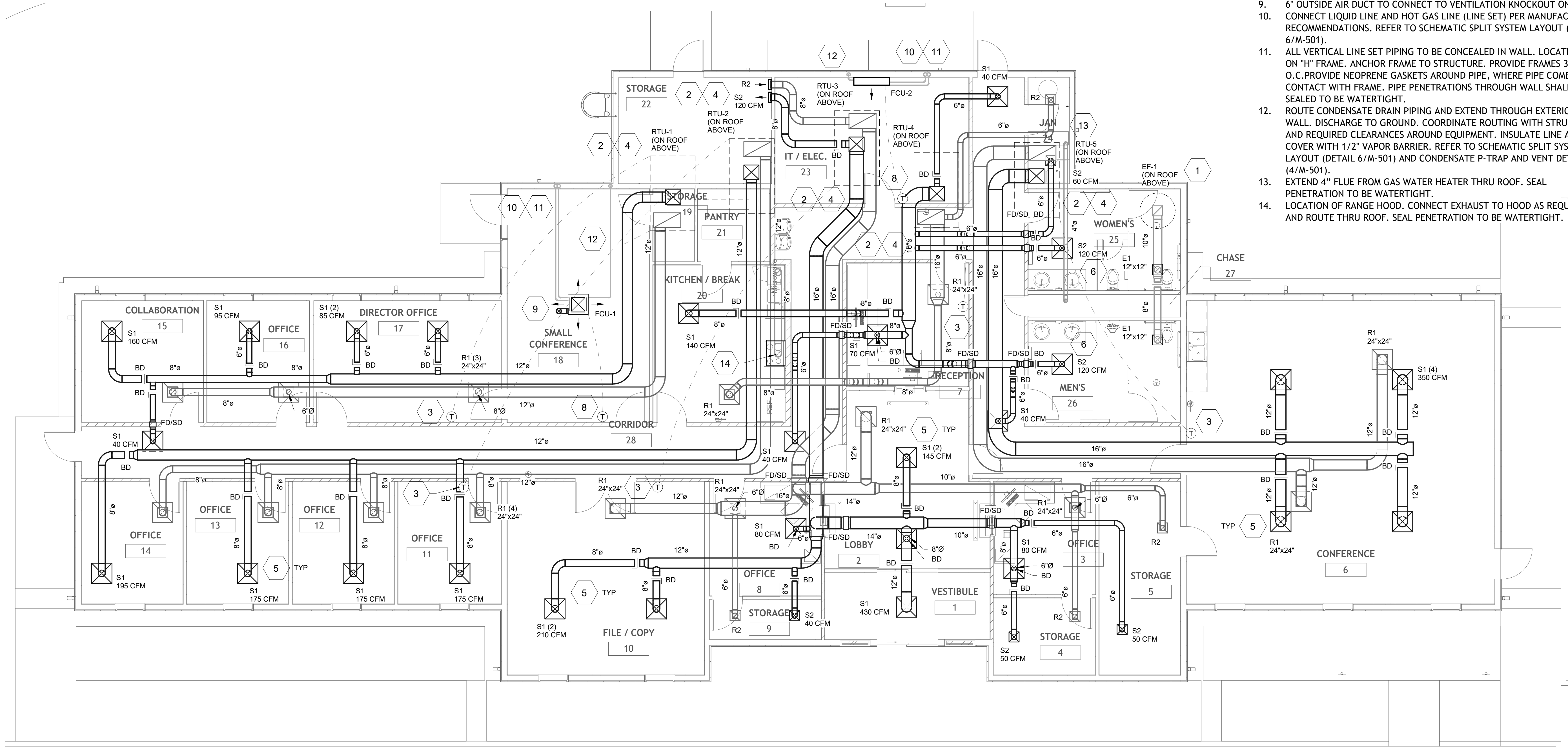
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GENERAL PROJECT NOTES:

- A. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
- B. VERIFY ALL ELECTRICAL CONNECTIONS WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION.
- C. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- D. VERIFY EACH EQUIPMENT CONFIGURATION REQUIREMENTS BEFORE INSTALLATION. DUCT CONNECTIONS SHALL BE MADE AS REQUIRED.
- E. COORDINATE LOCATION OF ROOF PENETRATIONS WITH ROOF STRUCTURE. FRAME AROUND EACH ROOF OPENING WITH WELDED ANGLE IRON FRAME. ALL ROOF PENETRATIONS SHALL BE FLASHED AND COUNTERFLASHED AS REQUIRED TO BE WATERTIGHT.
- F. REFER TO LOW VELOCITY DUCT FITTINGS DETAIL (1/M-501) FOR ACCEPTABLE DUCT FITTINGS TO BE USED IN DUCTWORK INSTALLATION.
- G. COORDINATE LOCATION OF DIFFUSERS AND RETURN AIR GRILLES WITH LIGHT FIXTURES. RELOCATE TO NEAREST OPEN GRID SPACE IF CONFLICT EXISTS.

KEYED NOTES ON SHEET:

- 1. LOCATION OF EXHAUST FAN ON ROOF ABOVE. REFER TO MH141 FOR CONTINUATION. REFER TO TYPICAL ROOF OPENING DETAIL (4/M-501) FOR ADDITIONAL DUCTWORK INSTALLATION INFORMATION.
- 2. LOCATION OF PACKAGED ROOFTOP UNIT ON ROOF. INSTALL UNIT LEVEL ON BUILT-UP CURB AND SECURELY ANCHOR UNIT TO CURB. PROVIDE VIBRATION ISOLATORS AT BASE.
- 3. THERMOSTAT LOCATED 48" ABOVE FINISH FLOOR.
- 4. EXTEND FULL-SIZE SUPPLY AND RETURN DUCT THRU ROOF. FLASH AND COUNTERFLASH ROOF PENETRATION TO BE WATERTIGHT. REFER TO TYPICAL ROOF OPENING (LARGER THAN 12") DETAIL (3/M-501) FOR ADDITIONAL DUCTWORK INSTALLATION INFORMATION.
- 5. FLEX DUCTWORK CONNECTED TO LAY-IN DIFFUSER TYPE AS SHOWN. MAXIMUM 5'-0" OF FLEX DUCT CAN BE RUN FROM LAY-IN DIFFUSER CONNECTION BACK TO RIGID DUCTWORK. PROVIDE APPROPRIATE TRANSITION FROM FLEX TO RIGID DUCTWORK AS REQUIRED. REFER TO DIFFUSER CONNECTION DETAIL (2/M-501).
- 6. RIGID DUCTWORK TO BE RUN FROM CEILING MOUNTED DIFFUSER CONNECTION BACK TO RIGID DUCTWORK. PROVIDE APPROPRIATE DUCTWORK TRANSITIONS AS REQUIRED. REFER TO DIFFUSER CONNECTION DETAIL (2/M-501).
- 7. LOCATION OF CEILING EXHAUST FAN. EXTEND DUCT FROM EXHAUST FAN THROUGH ROOF. ROUTE AS INDICATED. SEAL PENETRATION TO BE WATERTIGHT. REFER TO CEILING EXHAUST FAN DETAIL (4/M-501).
- 8. INSTALL THERMOSTAT AT 48" ABOVE FINISH FLOOR AND CONNECT TO FAN COIL UNIT.
- 9. 6" OUTSIDE AIR DUCT TO CONNECT TO VENTILATION KNOCKOUT ON FCU-1. CONNECT LIQUID LINE AND HOT GAS LINE (LINE SET) PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SCHEMATIC SPLIT SYSTEM LAYOUT (DETAIL 6/M-501).
- 10. ALL VERTICAL LINE SET PIPING TO BE CONCEALED IN WALL. LOCATE PIPE ON "H" FRAME. ANCHOR FRAME TO STRUCTURE. PROVIDE FRAMES 3'-0" O.C. PROVIDE NEOPRENE GASKETS AROUND PIPE, WHERE PIPE COMES IN CONTACT WITH FRAME. PIPE PENETRATIONS THROUGH WALL SHALL BE SEALED TO BE WATERTIGHT.
- 11. ROUTE CONDENSATE DRAIN PIPING AND EXTEND THROUGH EXTERIOR WALL. DISCHARGE TO GROUND. COORDINATE ROUTING WITH STRUCTURE AND REQUIRED CLEARANCES AROUND EQUIPMENT. INSULATE LINE AND COVER WITH 1/2" VAPOR BARRIER. REFER TO SCHEMATIC SPLIT SYSTEM LAYOUT (DETAIL 6/M-501) AND CONDENSATE P-TRAP AND VENT DETAIL (4/M-501).
- 12. EXTEND 4" FLUE FROM GAS WATER HEATER THRU ROOF. SEAL PENETRATION TO BE WATERTIGHT.
- 13. LOCATION OF RANGE HOOD. CONNECT EXHAUST TO HOOD AS REQUIRED AND ROUTE THRU ROOF. SEAL PENETRATION TO BE WATERTIGHT.



1 MECHANICAL HVAC PLAN - LEVEL 1
3/16" = 1'-0"



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MECHANICAL HVAC PLAN - LEVEL 1
PROJECT NAME:
Chino HMO Building
Navajo Housing Authority

Revisions	Mark	Date	Description

PROJECT NUMBER: 2020-0416
FILE:
DRWN. BY: DRC
CHKD BY: RMH
DATE: 11/12/2021
SHEET OF
MH111

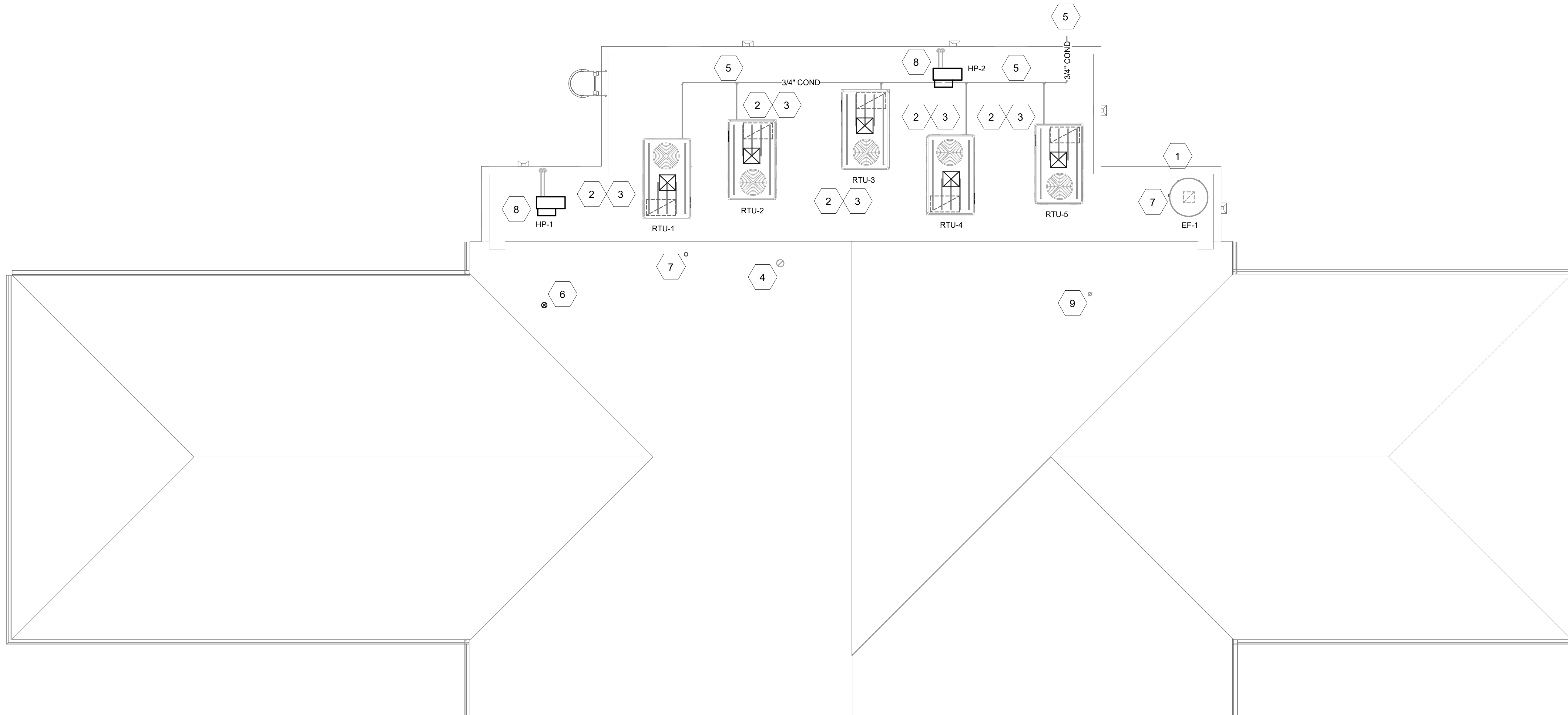
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GENERAL PROJECT NOTES:

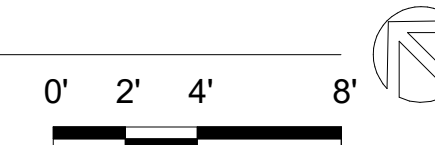
- A. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
- B. VERIFY ALL ELECTRICAL CONNECTIONS WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION.
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- D. VERIFY EACH EQUIPMENT CONFIGURATION REQUIREMENTS BEFORE INSTALLATION. DUCT CONNECTIONS SHALL BE MADE AS REQUIRED.
- E. COORDINATE LOCATION OF ROOF PENETRATIONS WITH ROOF STRUCTURE. FRAME AROUND EACH ROOF OPENING WITH WELDED ANGLE IRON FRAME. ALL ROOF PENETRATIONS SHALL BE FLASHED AND COUNTERFLASHED AS REQUIRED TO BE WATERTIGHT.
- F. REFER TO LOW VELOCITY DUCT FITTINGS DETAIL (1/M-501) FOR ACCEPTABLE DUCT FITTINGS TO BE USED IN DUCTWORK INSTALLATION.

KEYED NOTES ON SHEET:

- 1. LOCATION OF EXHAUST FAN ON ROOF. REFER TO TYPICAL ROOF OPENING DETAIL (4/M-501) FOR ADDITIONAL DUCTWORK INSTALLATION INFORMATION.
- 2. LOCATION OF PACKAGED ROOFTOP UNIT ON ROOF. INSTALL UNIT LEVEL ON BUILT-UP CURB AND SECURELY ANCHOR UNIT TO CURB. PROVIDE VIBRATION ISOLATORS AT BASE.
- 3. EXTEND FULL-SIZE SUPPLY AND RETURN DUCT THRU ROOF. FLASH AND COUNTERFLASH ROOF PENETRATION TO BE WATERTIGHT. REFER TO TYPICAL ROOF OPENING (LARGER THAN 12") DETAIL (3/M-501).
- 4. EXHAUST VENT THRU ROOF. REFER TO EXHAUST/VENT DUCT THRU ROOF DETAIL (5/M-501).
- 5. EXTEND 3/4" CONDENSATE PIPING FROM UNIT AND ROUTE TO EXTERIOR WALL AND DOWN WALL TO DISCHARGE AT GROUND LEVEL.
- 6. 6" DUCT UP FROM BELOW FOR OUTSIDE AIR. TERMINATE WITH VENTILATION CAP.
- 7. VTR UP FROM BELOW.
- 8. INSTALL HEAT PUMP ON ROOF, PER MANUFACTURER'S RECOMMENDATIONS. INSTALL UNIT LEVEL ON BUILT-UP CURB AND SECURELY ANCHOR UNIT TO CURB. COORDINATE LOCATION WITH OWNER.
- 9. FLUE FROM WATER HEATER THRU ROOF. REFER TO EXHAUST/VENT DUCT THRU ROOF DETAIL (5/M-501).



1 MECHANICAL HVAC PLAN - ROOF
3/16" = 1'-0"



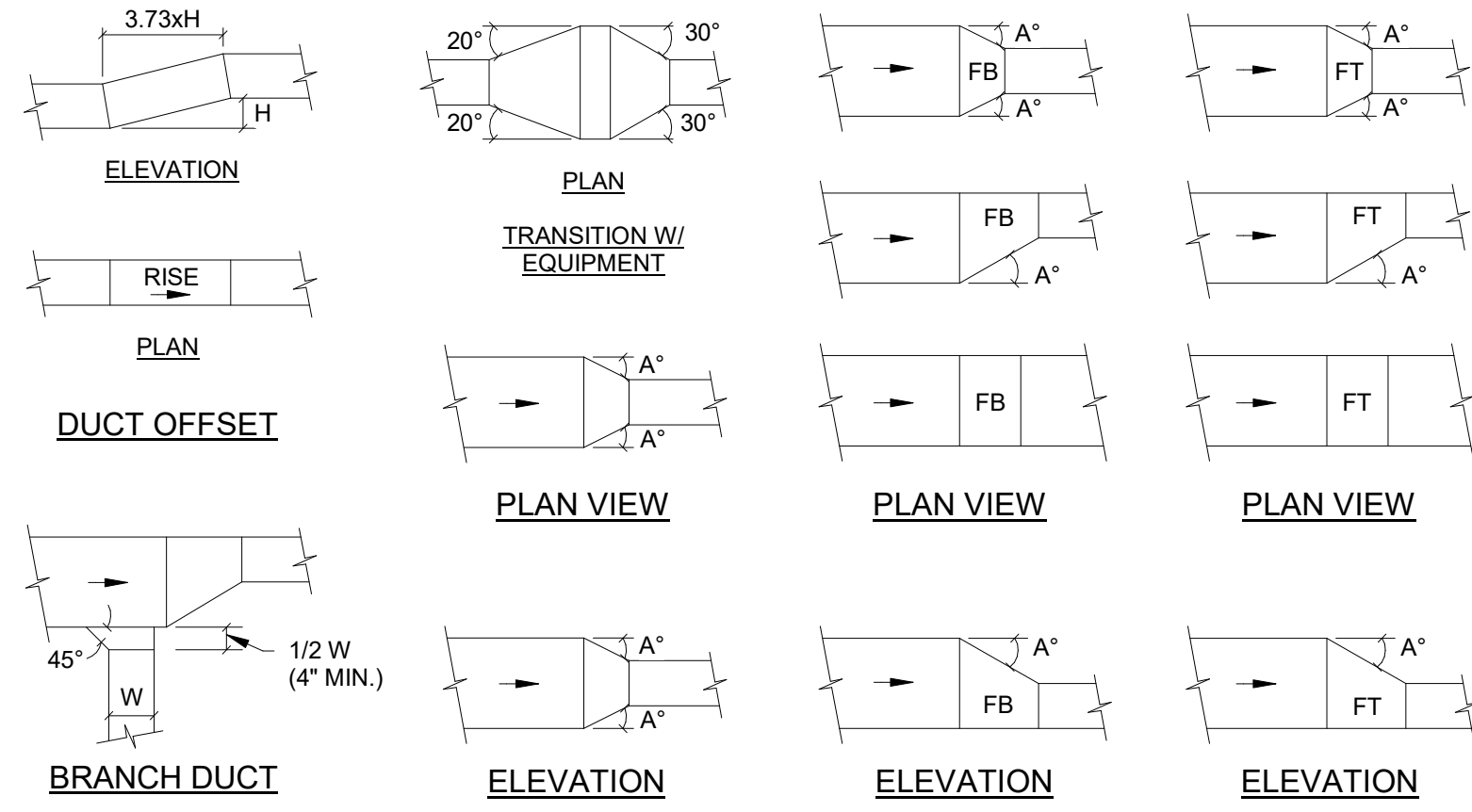
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SHEET TITLE: **MECHANICAL HVAC PLAN - ROOF**
PROJECT NAME: **Chinle HMO Building Navajo Housing Authority**

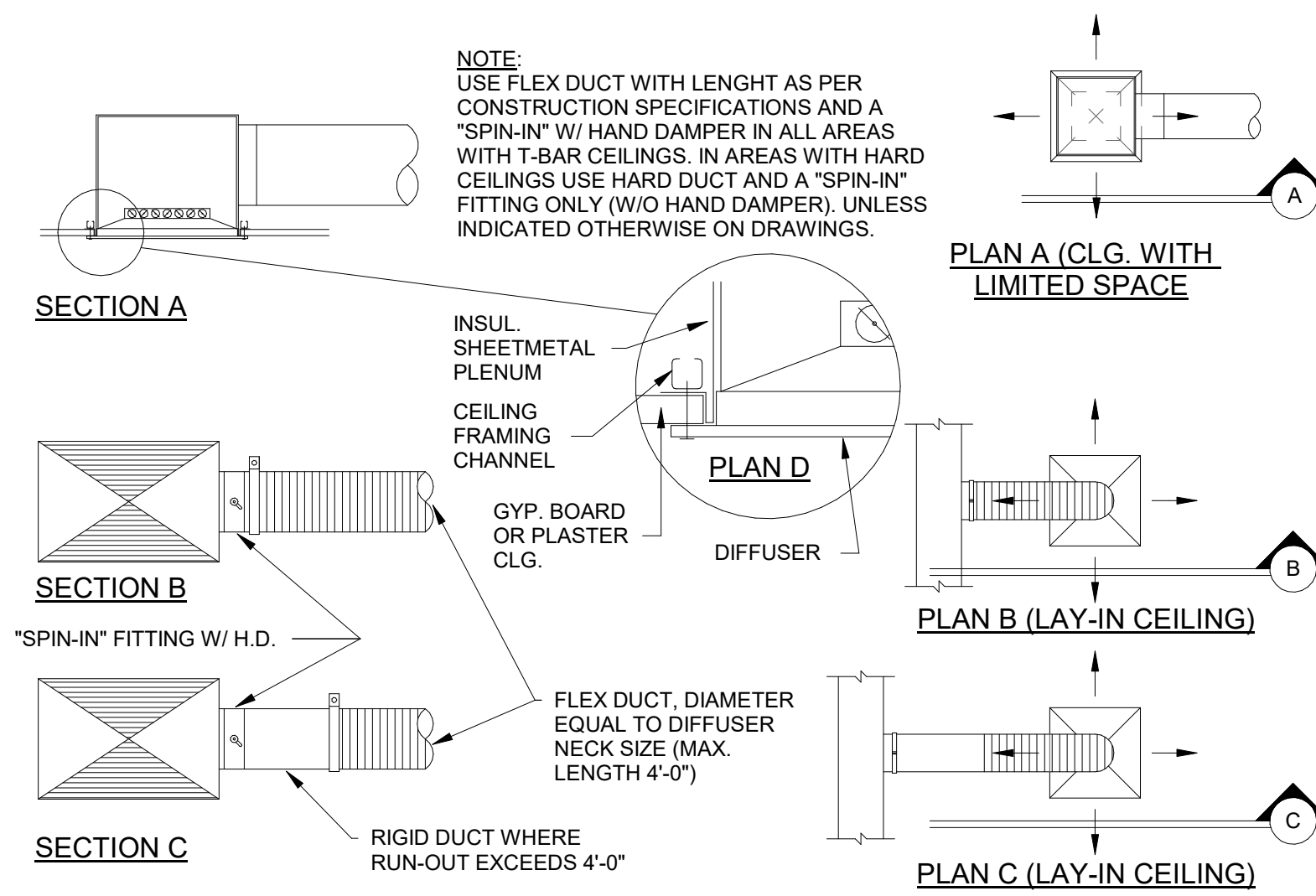
Revisions	Mark	Date	Description

PROJECT NUMBER: 2020-0416
FILE:
DRWN. BY: DRC
CHKD BY: RMH
DATE: 11/12/2021
SHEET OF
MH141



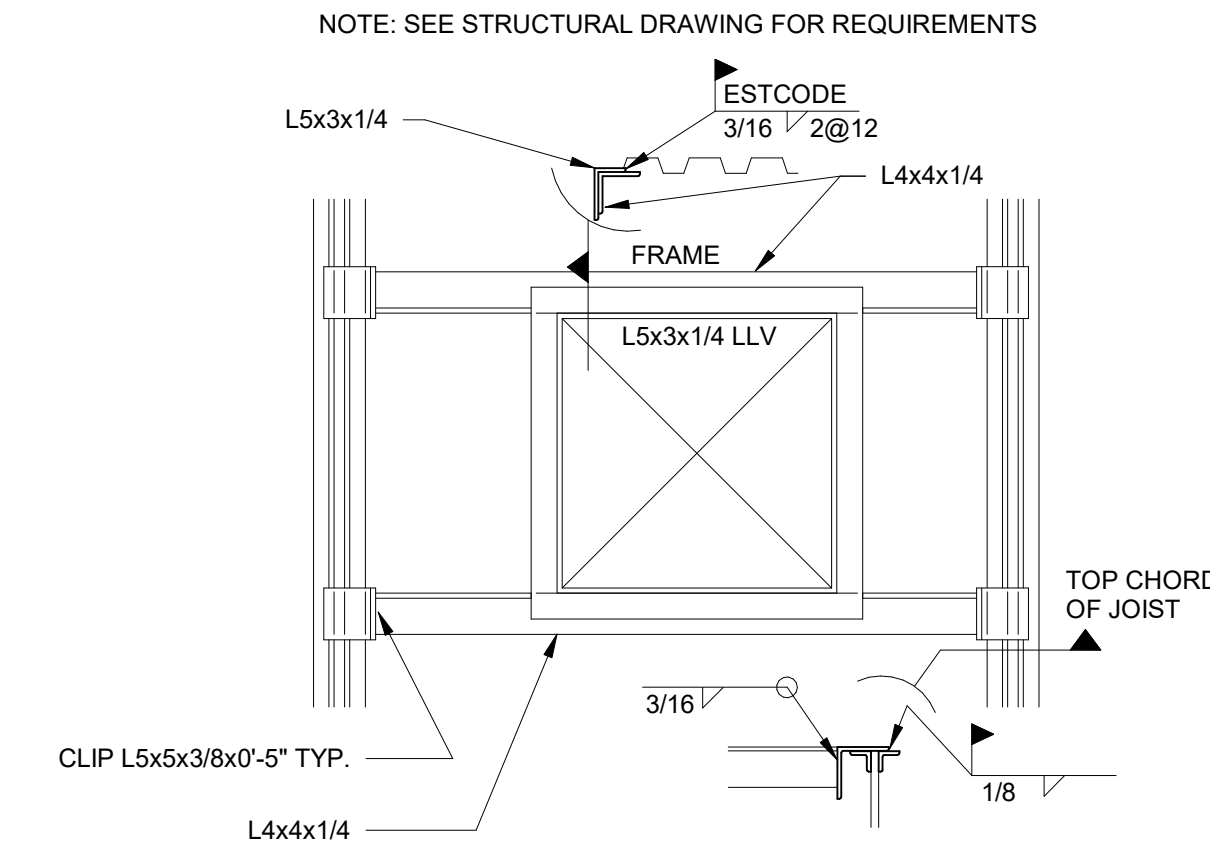
NOTES:
 1. ANGLE A = 30° WHEN AIR FLOWS IN DIRECTION OF ARROW (SUPPLY AIR).
 2. ANGLE A = 15° WHEN AIR FLOWS IN OPPOSITE DIRECTION OF ARROW (R.A. OR EXHAUST).

1 LOW VELOCITY DUCT FITTINGS DETAIL
 SCALE: NTS

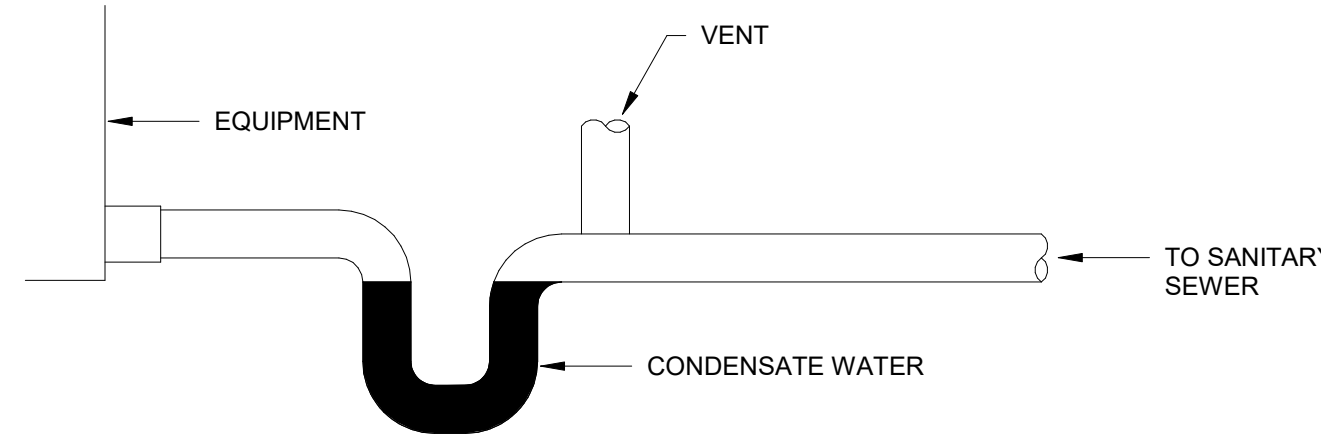


NOTE:
 USE FLEX DUCT WITH LENGTH AS PER CONSTRUCTION SPECIFICATIONS AND A "SPIN-IN" W/ HAND DAMPER IN ALL AREAS WITH T-BAR CEILINGS. IN AREAS WITH HARD CEILINGS USE HARD DUCT AND A "SPIN-IN" FITTING ONLY (W/O HAND DAMPER), UNLESS INDICATED OTHERWISE ON DRAWINGS.

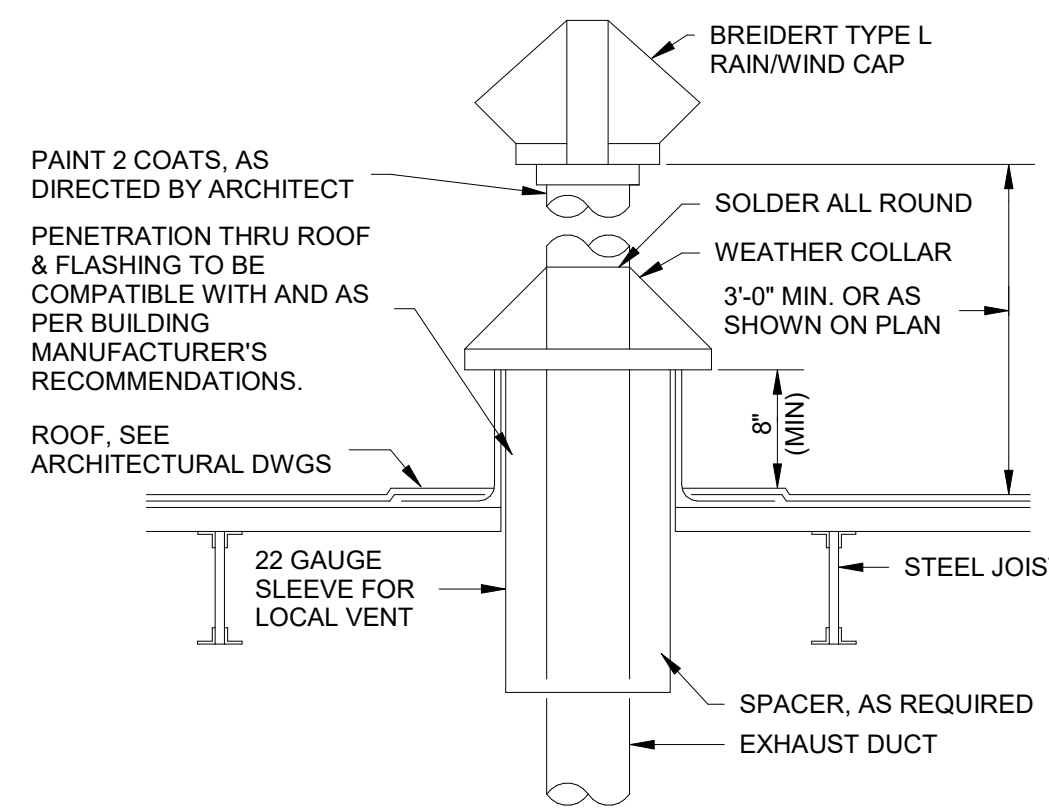
2 DIFFUSER CONNECTION DETAIL
 SCALE: NTS



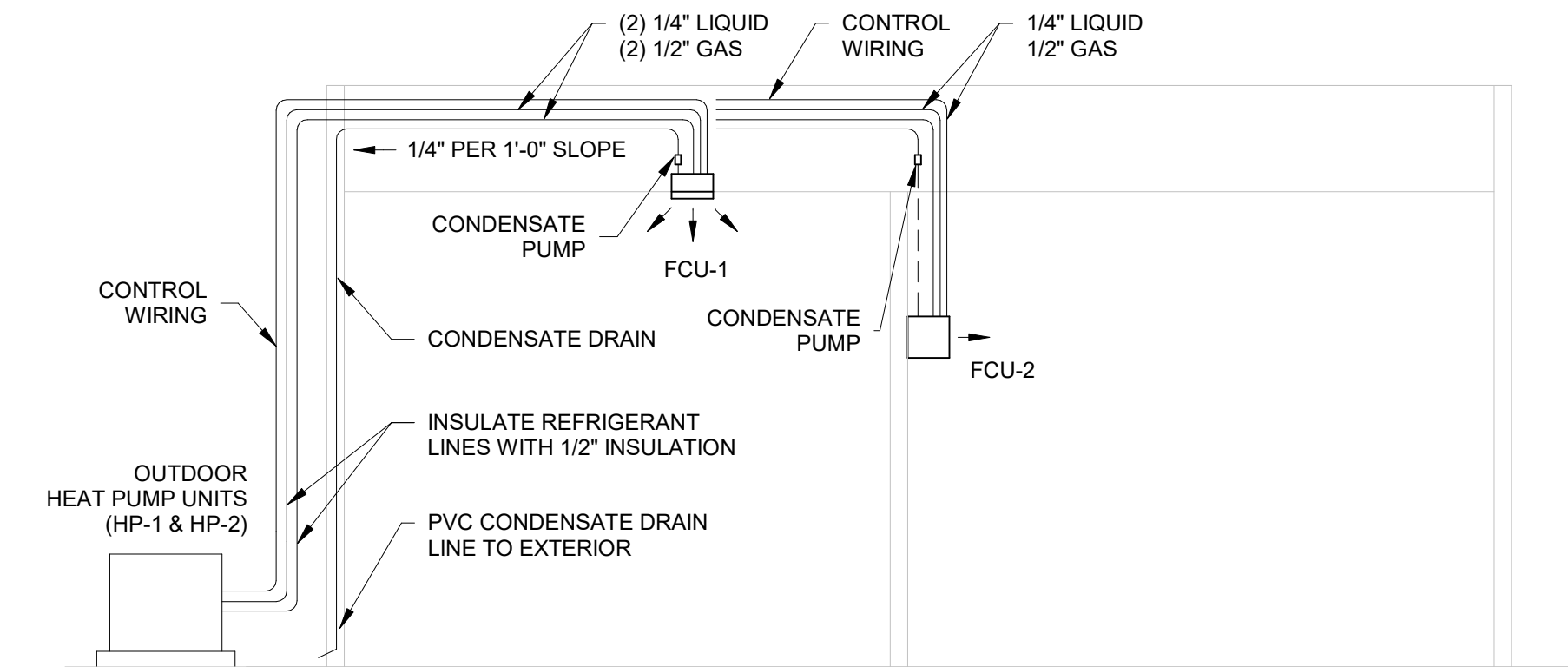
3 TYPICAL ROOF OPENING (LARGER THAN 12\") DETAIL
 SCALE: NTS



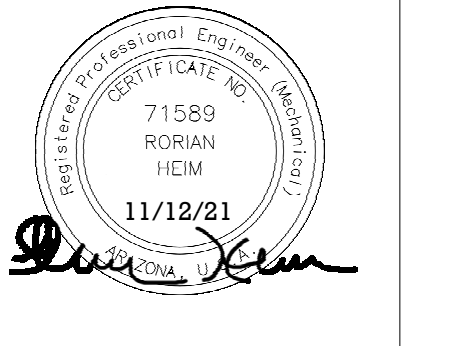
4 CONDENSATE P-TRAP AND VENT
 SCALE: NTS



5 EXHAUST DUCT THRU ROOF DETAIL
 SCALE: NTS



6 SCHEMATIC MINI-SPLIT HVAC SYSTEM LAYOUT
 SCALE: NTS



Revisions	Mark	Date	Description

Diffuser, Register & Grille Schedule

Table with columns: Symbol, Manufacturer, Model, Use, Type, Comments. Rows include E1, R1, R2, S1, S2.

GENERAL NOTES: GRILLES, REGISTERS, AND DIFFUSERS SHALL BE FABRICATED OF STEEL OR ALUMINUM, AS NOTED. ONLY ALUMINUM SHALL BE USED ON EXHAUST/RETURN REGISTERS OR GRILLES WHERE HEAVY CONCENTRATIONS OF MOISTURE ARE PRESENT...

Exhaust Fan Schedule

Table with columns: Symbol, Manufacturer, Model, Area Served, Type, Drive, CFM, ESP (in W.C.), Fan RPM, Max Sound Level (Sones), HP, Watts, Power Req. (V/Hz/Ph), Comments.

Packaged Rooftop Unit Schedule

Table with columns: Symbol, Manufacturer, Model, Cooling Capacity (BTUH), EER/SEER, Tons, CFM, Outside Air CFM, Heating Input (BTUH), Power Req. (V/Hz/Ph), Unit MCA (Amps), MOCP (Amps), Weight (Lbs), Comments.

1. PROVIDE TOUCH-SCREEN FRONT-END CONTROL UNIT IN BUILDING, WITH ONLINE MONITORING AND CONTROL CAPABILITIES.

Mini-Split System - Heat Pump Schedule

Table with columns: Symbol, Manufacturer, Model, Cooling Capacity (BTUH), Heating Capacity (BTUH), Power Req. (V/Hz/Ph), Unit MCA (Amps), MOCP (Amps), Weight (Lbs), Comments.

Mini-Split System - Fan Coil Unit Schedule

Table with columns: Symbol, Manufacturer, Model, Tons, CFM, Cooling Capacity (BTUH), Heating Capacity (BTUH), Power Req. (V/Hz/Ph), Unit MCA (Amps), Weight (Lbs), Comments.

GENERAL NOTES

- 1. EQUIPMENT CAPACITIES BASED FOR OPERATION AT 5,500 FEET ELEVATION. ALL WORK AND MATERIALS SHALL BE PERFORMED AND PROVIDED TO COMPLY WITH ASHRAE RECOMMENDATIONS AND THE CURRENT MECHANICAL AND PLUMBING CODES.

SYMBOL LEGEND

Table with columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Includes symbols for ceiling supply diffuser, ceiling supply diffuser (fixed ceiling), and ceiling return air grille.

2019 UNIFORM MECHANICAL CODE CHAPTER 4 2019 ASHRAE 62.1

VENTILATION AIR SUPPLY - SECTION 402.0 VENTILATION

Zone: 403.0 VENTILATION RATES

403.1.1 Breathing Zone Outdoor Flow

Where Vbz = Zone Outdoor Air Flow

Az = Floor Area (Net Occupiable Floor Area of Zone)

Pz = Zone Population (Average)

Rz = Outdoor Airflow Rate Required Per Person (Table 4-1)

Ro = Outdoor Airflow Rate Required Per Unit Area (Table 4-1)

403.1.2 Zone Air Distribution Effectiveness

Ez = Zone Air Distribution Effectiveness (Table 4-2)

403.1.3 Zone Outdoor Air Flow

Where Vbz = Zone Outdoor Airflow

Vbz = Breathing Zone Outdoor Airflow

403.2 Single-Zone System

Where Vbz = Zone Outdoor Airflow

Where Vbz = Zone Outdoor Airflow

Where Vbz = Zone Outdoor Airflow

Where Vbz = Zone Outdoor Airflow

Where Vbz = Zone Outdoor Airflow

Where Vbz = Zone Outdoor Airflow

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Where Vbz = Zone Outdoor Airflow

Where Vbz = Zone Outdoor Airflow

COMcheck Software Version 4.1.4.2 Mechanical Compliance Certificate

Section 1: Project Information Energy Code: 2009 IECC Project Title: Chile HMO Building Project Type: New Construction Construction Site: Chino, AZ 85003 Owner/Agent: Designer/Contractor: Rorian Heim

Section 2: General Information Building Location (for weather data): Chino, Arizona Climate Zone: Section 3: Mechanical Systems List

Section 4: Requirements Checklist Requirements Specific To: RTU-1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22

Section 5: Compliance Statement Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application.

Section 6: Post Construction Compliance Statement HVAC record drawings of the actual installation, system capacities, calibration information, and performance data for each equipment provided to the owner.

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ENGINEER'S STAMP: PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING STATE OF NEW MEXICO CERTIFICATE NO. 71589 RORIAN HEIM 11/12/21

MECHANICAL SCHEDULE SHEET PROJECT NAME: Chile HMO Building Navajo Housing Authority SHEET TITLE: MECHANICAL SCHEDULE SHEET PROJECT NUMBER: 2020-0416

Revisions table with columns: Revisions, Date, Mark, Description. Includes project information: DRWN. BY: DRC, CHKD BY: RMH, DATE: 11/12/2021, SHEET OF M-701

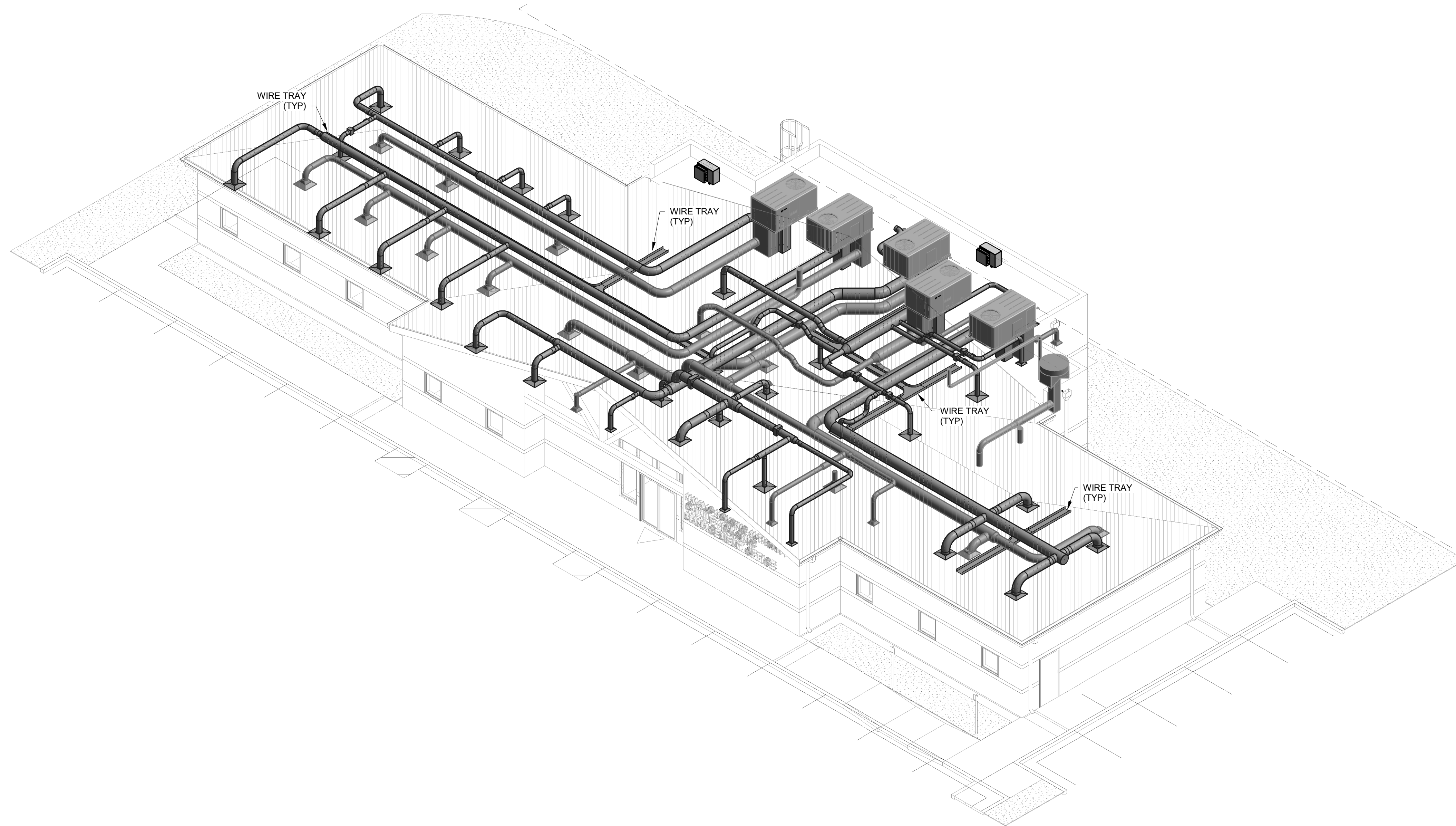
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C

B

A



1 DUCTWORK & WIRE TRAY 3D COORDINATION VIEW
SCALE: NTS

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MECHANICAL 3D VIEW SHEET
PROJECT NAME:
Chinle HMO Building
Navajo Housing Authority

Revisions		Description
Mark	Date	

PROJECT NUMBER: 2020-0416
FILE:
DRWN. BY: DRC
CHKD BY: RMH
DATE: 11/12/2021
SHEET OF
M-901

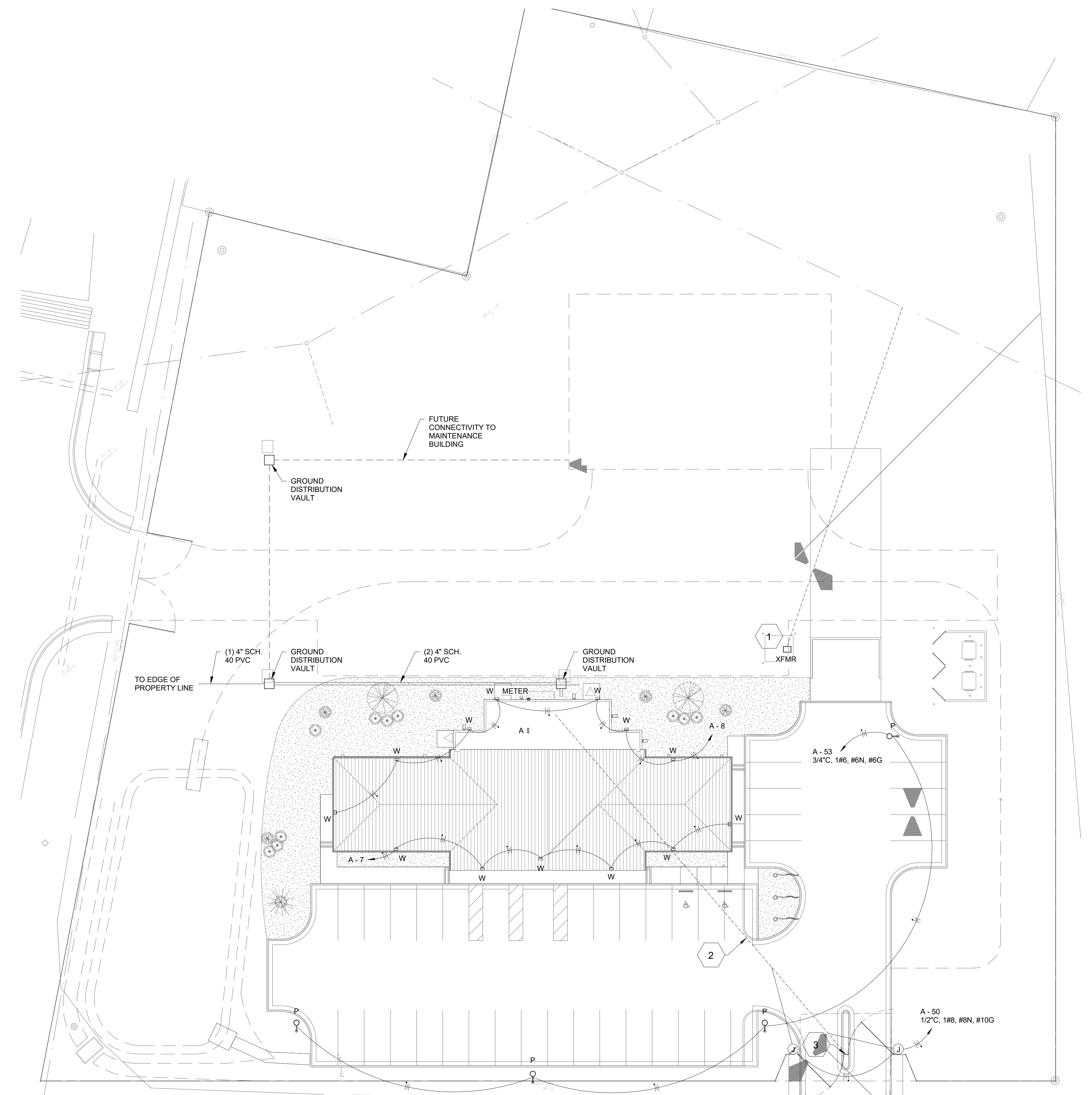
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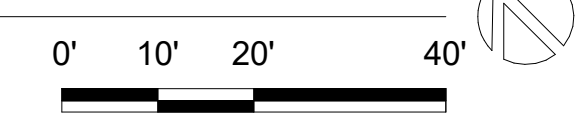
C

B

A



1 ELECTRICAL OVERALL SITE PLAN
1" = 20'-0"

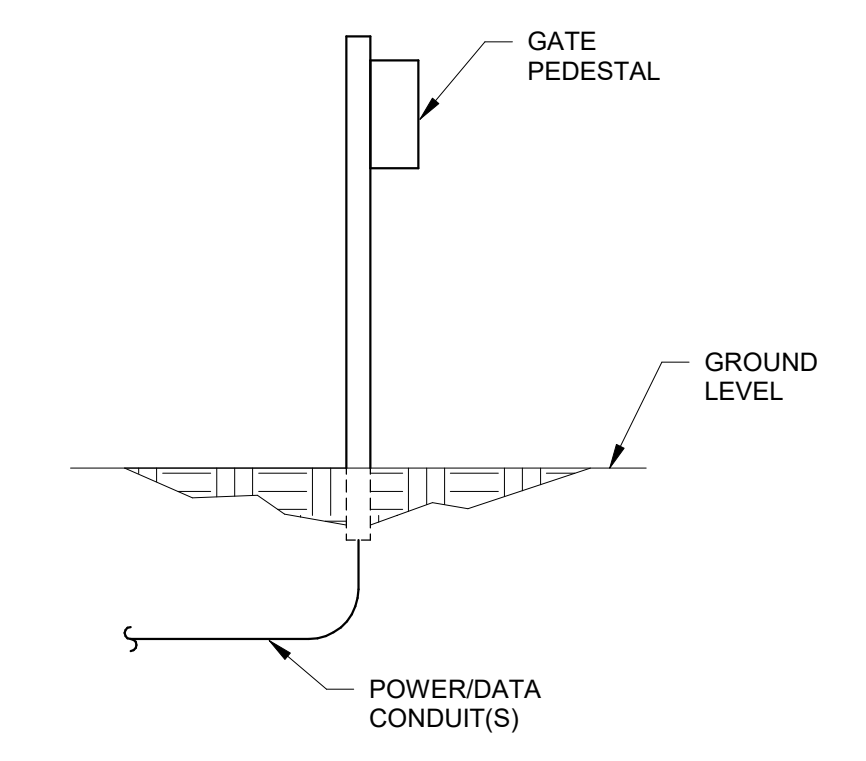


GENERAL PROJECT NOTES:

- A. FRONTIER IS RESPONSIBLE FOR PROVIDING CONNECTION TO THEIR MAIN FIBER LINE EAST OF INDIAN ROUTE 102. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING CONDUIT AND VAULT BOXES FROM RIGHT-OF-WAY TO THE OUTSIDE OF THE IT ROOM. NHA IT DEPARTMENT IS RESPONSIBLE FOR PULLING DATA LINES FROM RIGHT-OF-WAY THROUGH CONDUIT AND VAULTS TO THE INTERIOR OF THE IT ROOM.

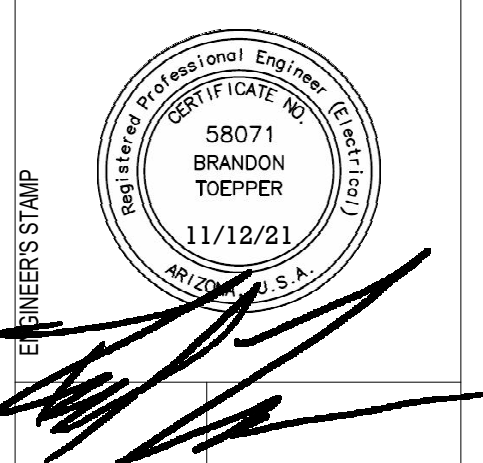
KEYED NOTES ON SHEET:

- 1. REFER TO NTUA SPEC CM-12 FOR TRANSFORMER PAD DETAIL.
- 2. PROVIDE 3/4" CONDUIT FROM SECURITY PEDESTAL TO IT ROOM. THIS WILL ALLOW CONNECTION TO THE PORTAL GATEWAY. CONTRACTOR TO VERIFY POWER AND DATA REQUIREMENTS OF SECURITY SYSTEM AND/OR GATE OPERATOR BEFORE INSTALLATION. ALL DISCREPANCIES TO BE RELAYED TO ENGINEER OF RECORD BEFORE PROCEEDING. REWORK WILL BE AT THE COST OF THE CONTRACTOR.
- 3. REFER TO ELECTRICAL GATE PEDESTAL DETAIL (2/ES101) ON THIS SHEET.



2 ELECTRICAL GATE PEDESTAL DETAIL
3/4" = 1'-0"

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SHEET TITLE: ELECTRICAL PROJECT SITE PLAN
PROJECT NAME: Chinle HMO Building Navajo Housing Authority

Revisions	Mark	Date	Description

PROJECT NUMBER: 2020-0416
FILE:
DRWN. BY: BLT
CHKD BY: BLT
DATE: 11/12/2021
SHEET OF
ES101

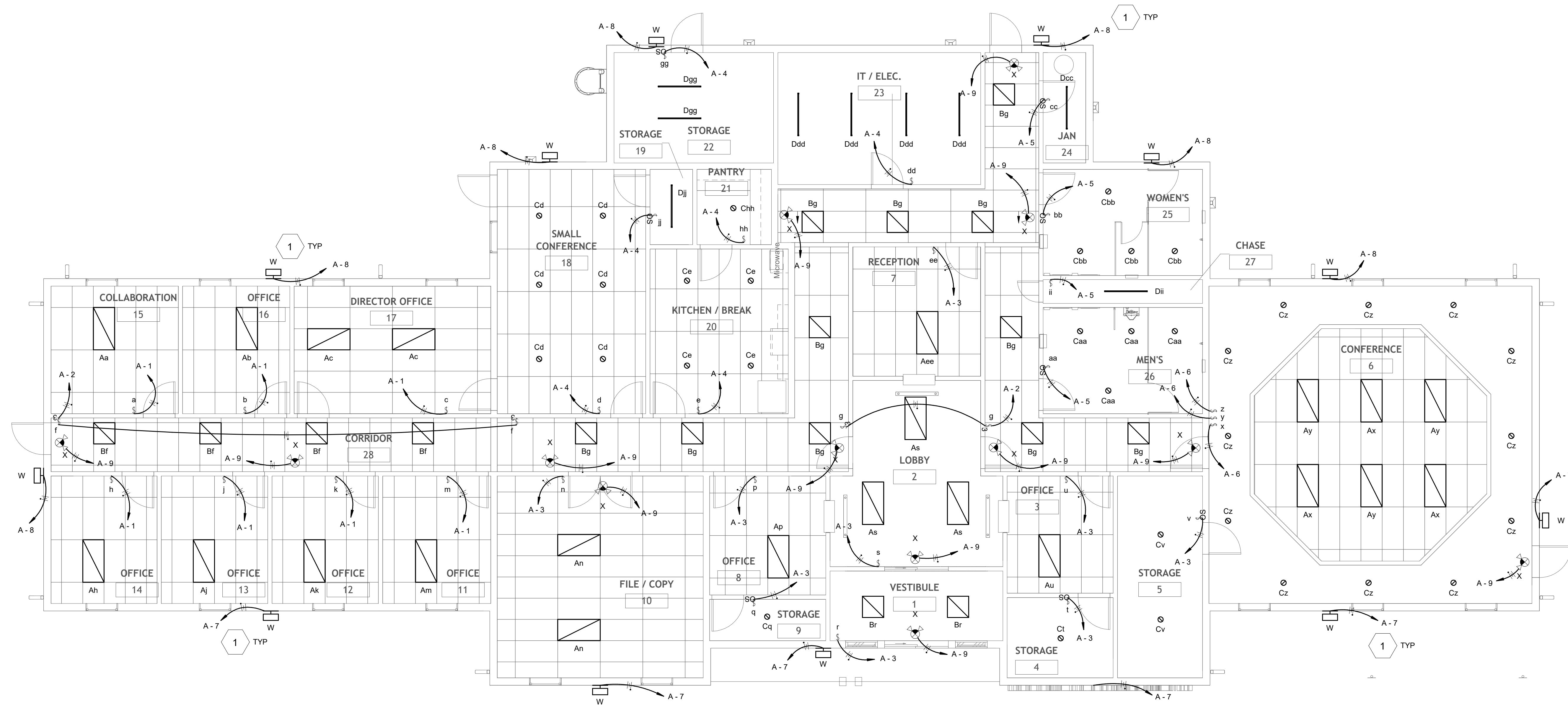
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GENERAL PROJECT NOTES:

- A. LIGHTS WITH AN 'EM' DESIGNATOR REQUIRE AN EMERGENCY LIGHTING BALLAST.

KEYED NOTES ON SHEET:

- 1. PROVIDE CIRCUIT AS SHOWN VIA PHOTOCELL TORK #DZ50R OR EQUAL. PROVIDE CONTACTORS AS NECESSARY.



1 ELECTRICAL LIGHTING PLAN - LEVEL 1
3/16" = 1'-0"



SHEET TITLE: **ELEC LIGHTING RCP PLAN - LEVEL 1**

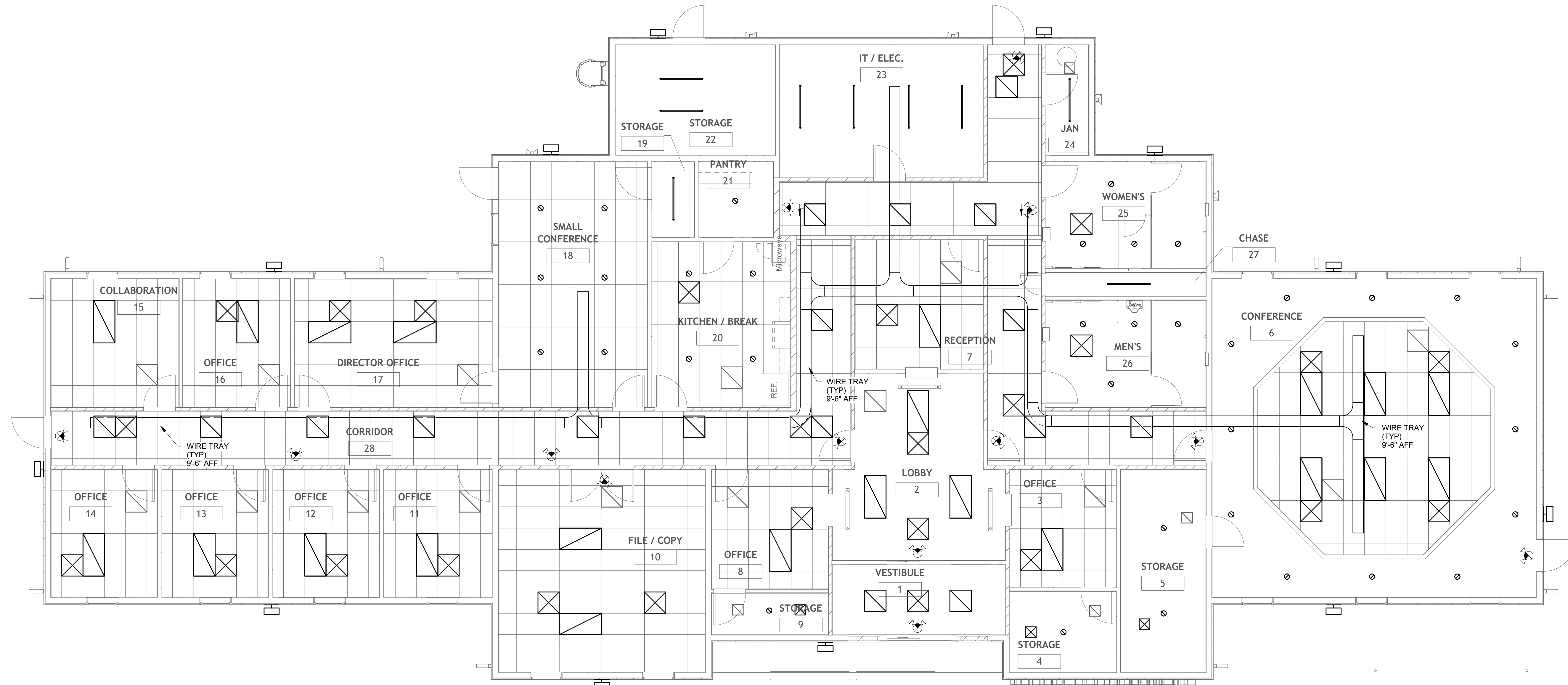
PROJECT NAME:
Chinle HMO Building
Navajo Housing Authority

Revisions	Mark	Date	Description

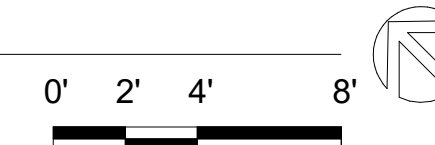
PROJECT NUMBER: 2020-0416
 FILE:
 DRWN. BY: BLT
 CHKD BY: BLT
 DATE: 11/12/2021
 SHEET OF
EL111

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1 ELECTRICAL LIGHTING PLAN - LEVEL 1
3/16" = 1'-0"



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SHEET TITLE: MEP COORDINATION PLAN
PROJECT NAME: Chinle HMO Building
Navajo Housing Authority

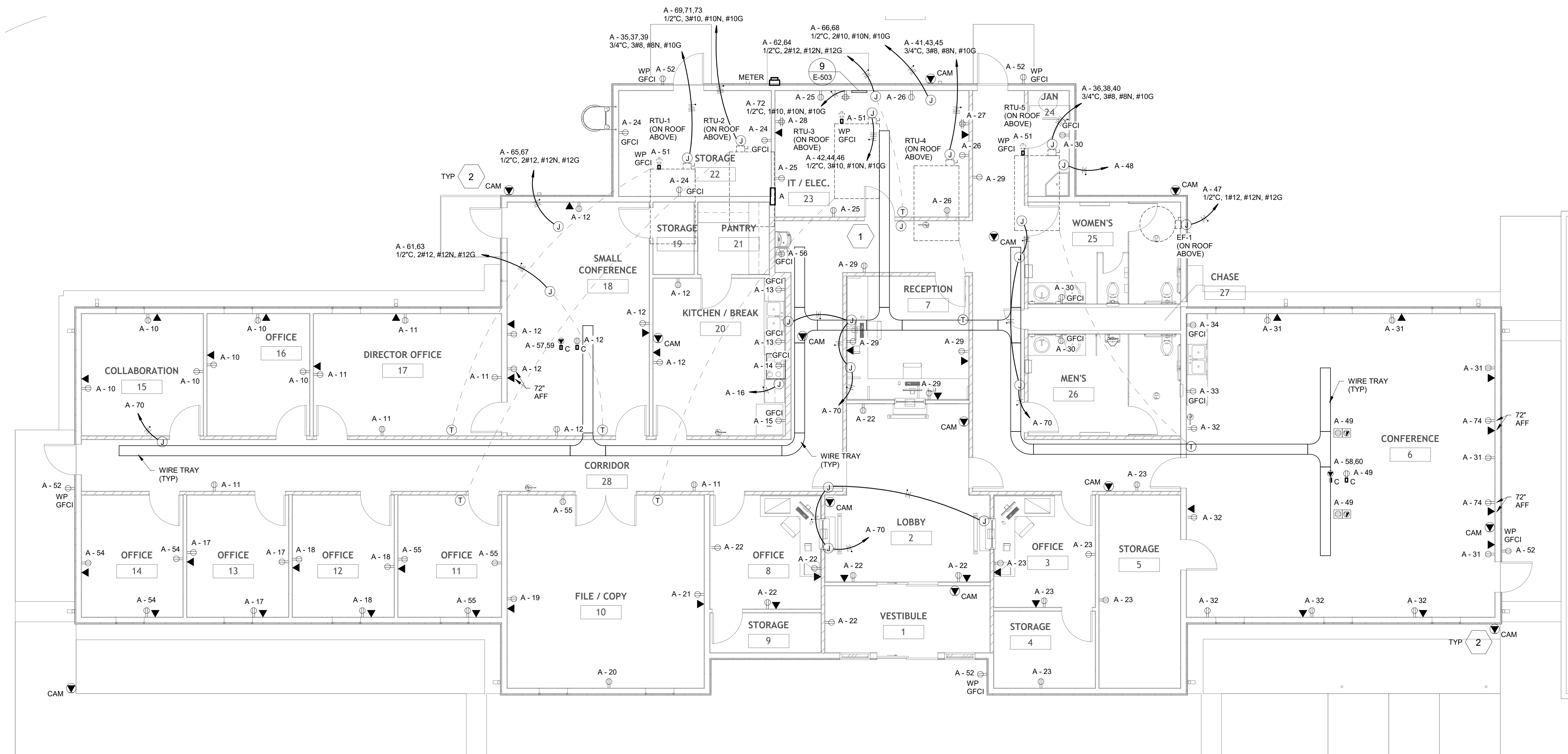
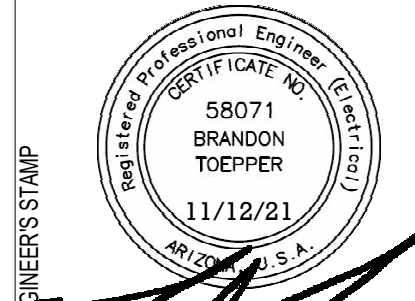
Revisions	Mark	Date	Description

PROJECT NUMBER: 2020-0416
FILE:
DRWN. BY: BLT
CHKD BY: BLT
DATE: 11/12/2021
SHEET OF
EL112

KEYED NOTES ON SHEET:

- 1. PROVIDE JUNCTION BOX AND 1/2" CONDUIT FOR KEYPAD LOCK. POWER REQUIREMENTS FOR THE STANLEY WI-Q DOOR LOCK SYSTEM TO BE POWER OVER ETHERNET (POE). CONTRACTOR TO CONFIRM POWER AND DATA REQUIREMENTS WITH OWNER BEFORE PURCHASE AND INSTALLATION. REWORK WILL BE PERFORMED AT THE CONTRACTORS COST.
- 2. REFER TO FLUSH MOUNTED J-BOX FOR SECURITY MOUNTING DETAIL (10/E-503).

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1 ELECTRICAL POWER PLAN - LEVEL 1
 3/16" = 1'-0"

SHEET TITLE: **ELEC POWER PLAN - LEVEL 1**
 PROJECT NAME: **Chinle HMO Building Navajo Housing Authority**

Revisions	Mark	Date	Description

PROJECT NUMBER: 2020-0416
 FILE:
 DRWN. BY: BLT
 CHKD BY: BLT
 DATE: 11/12/2021
 SHEET OF
EP111

DATE PLOTTED: 11/10/2021 3:08:04 PM

GENERAL PROJECT NOTES:

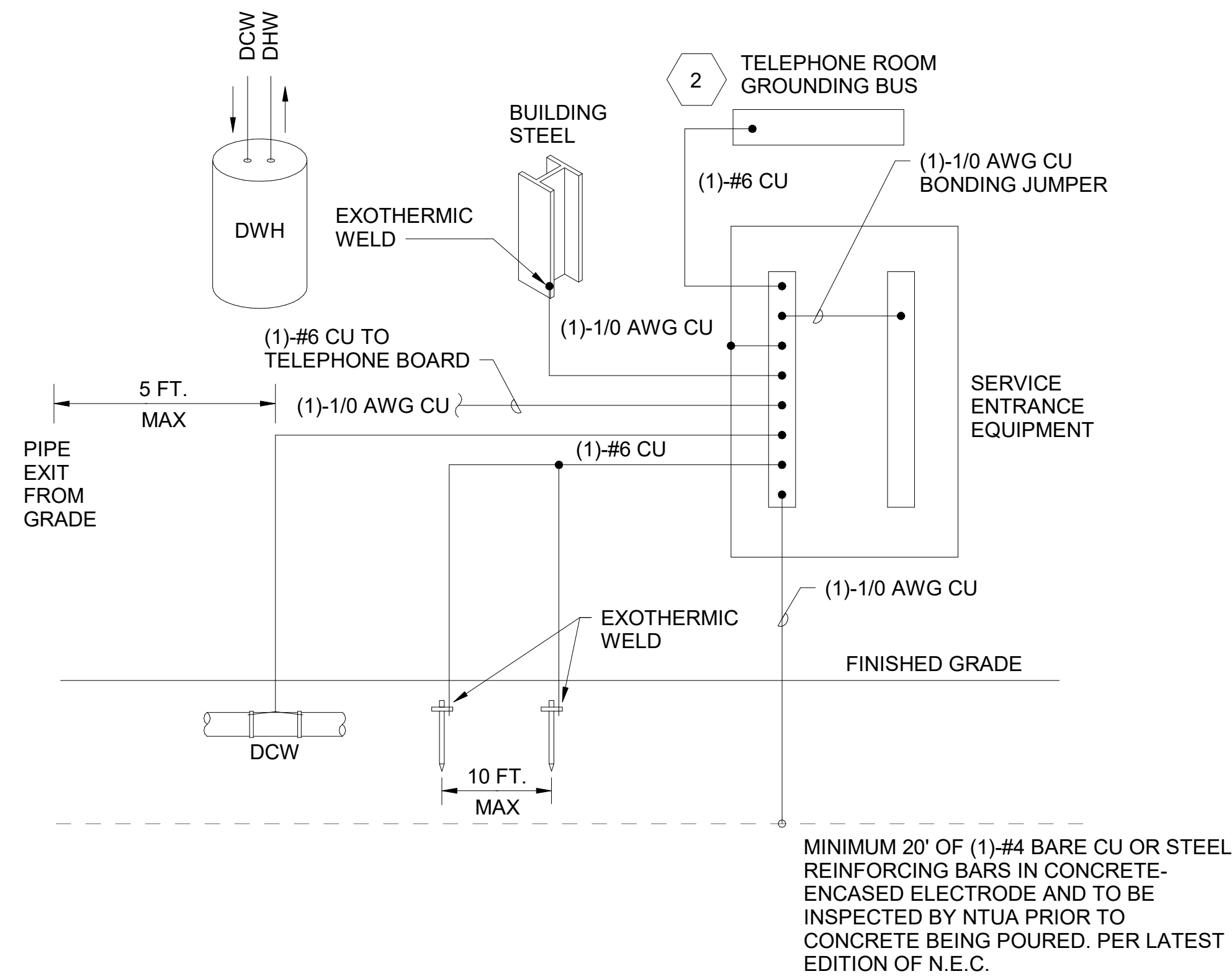
- A. CONTRACTOR SHALL PROVIDE ARC FLASH LABEL CLEARLY VISIBLE ON EQUIPMENT PER N.E.C. 2020, ARTICLE 110.16.
- B. CONTRACTOR TO PROVIDE AFCI BREAKERS FOR 120V, 20A BREAKERS EXCEPT WHERE OTHERWISE NOTED.
- C. FEEDER SCHEDULE WIRES ARE COPPER UNLESS SPECIFIED OTHERWISE.

KEYED NOTES ON SHEET:

- 1. UTILITY TRANSFORMER BY ELECTRICAL UTILITY.
- 2. REFER TO GROUNDING BUS DETAIL (9/E-503).

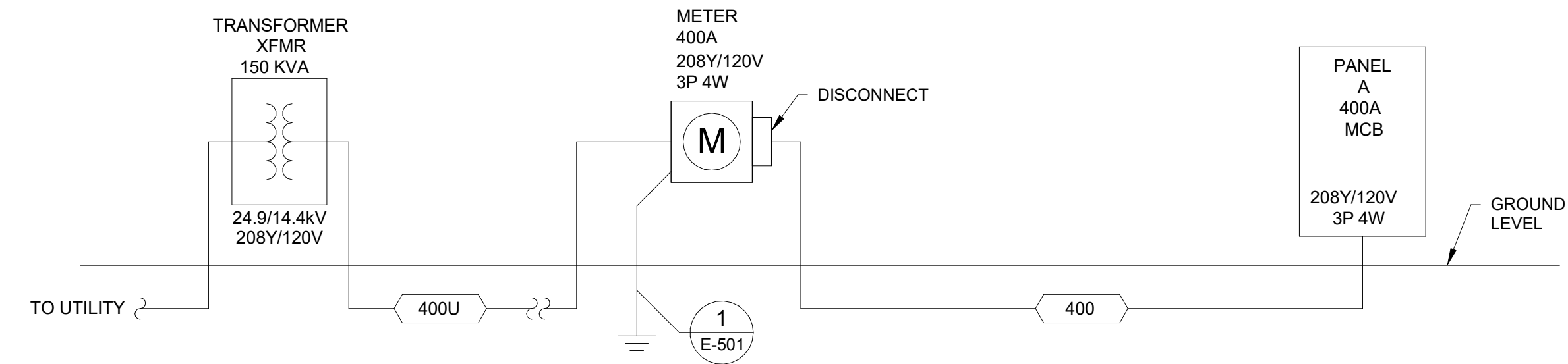
FEEDER SCHEDULE

ID	FEEDER AMPS	CONDUIT AND FEEDER
400	400	3-1/2" C, 3-600kcmil, 600kcmil N, #2G
400U	400	3-1/2" C, 3-600kcmil, 600kcmil N



1 ELECTRICAL GROUNDING DETAIL

SCALE: NTS



4 ELECTRICAL ONELINE DIAGRAM

SCALE: NTS

DEVICE	FAULT AT DEVICE	AIC RATING	VOLTAGE	FEEDER		TRANSFORMER		FAULT AT PRIMARY
				SIZE	LENGTH	KVA	Z%	
XFMR	60,000	60,000	12,470V	N/A		150	2	
METER	16,725	18,000	208V	600kcmil	116'			
A	13,812	14,000	208V	600kcmil	34'			

2 ELECTRICAL FAULT CURRENT SCHEDULE

SCALE: NTS

DEVICE	FEEDER		BRANCH CIRCUIT		TOTAL VOLTAGE DROP
	VOLTAGE DROP	WIRE SIZE	MAX VOLTAGE DROP	CIRCUIT NUMBER	
XFMR	0.00%	N/A			0.00%
METER	0.54%	600kcmil			0.54%
A	0.86%	600kcmil	2.55%	50	3.41%

3 ELECTRICAL VOLTAGE DROP SCHEDULE

SCALE: NTS

Symbol	Mark	Count	Manufacturer	Description	Color Temp	Lamp	Lamp Count	Lumens	Light Loss	Wattage
[Symbol]	A	22	LITHONIA LIGHTING	2x4 LIGHT	4230 K	LED	1	5044 lm	1	43 W
[Symbol]	B	17	LITHONIA LIGHTING	2x2 LIGHT	4230 K	LED	1	3655 lm	1	30 W
[Symbol]	C	35	LITHONIA LIGHTING	CAN LIGHT	2800 K	LED	1	1476 lm	1	30 W
[Symbol]	D	9	LITHONIA LIGHTING	STRIP LIGHT	4230 K	LED	1	3275 lm	1	30 W
[Symbol]	P	4	LITHONIA LIGHTING	POLE LIGHT	3200 K	LED	1	6243 lm	1	150 W
[Symbol]	W	13	LITHONIA LIGHTING	WALL PACK	4000 K	LED	1	2145 lm	1	70 W
[Symbol]	X	13	LITHONIA LIGHTING	EMER / EXIT COMBO	3200 K	LED	1	1986 lm		9 W

5 ELECTRICAL LIGHTING SCHEDULE

SCALE: NTS

Power Statistics				
Description	# of Luminaires	Wattage	Area	Density
Power Density Area #1	82	2746 W	5873 SF	0.47 W/ft²

PER IECC 2018, TABLE C405.3.2(1), THIS SPACE IS DEEMED AN OFFICE AND IS TO BE 0.79 WATTS / SQ.FT. THIS SPACE IS IN COMPLIANCE.

6 ELECTRICAL POWER DENSITY CALCULATIONS

SCALE: NTS

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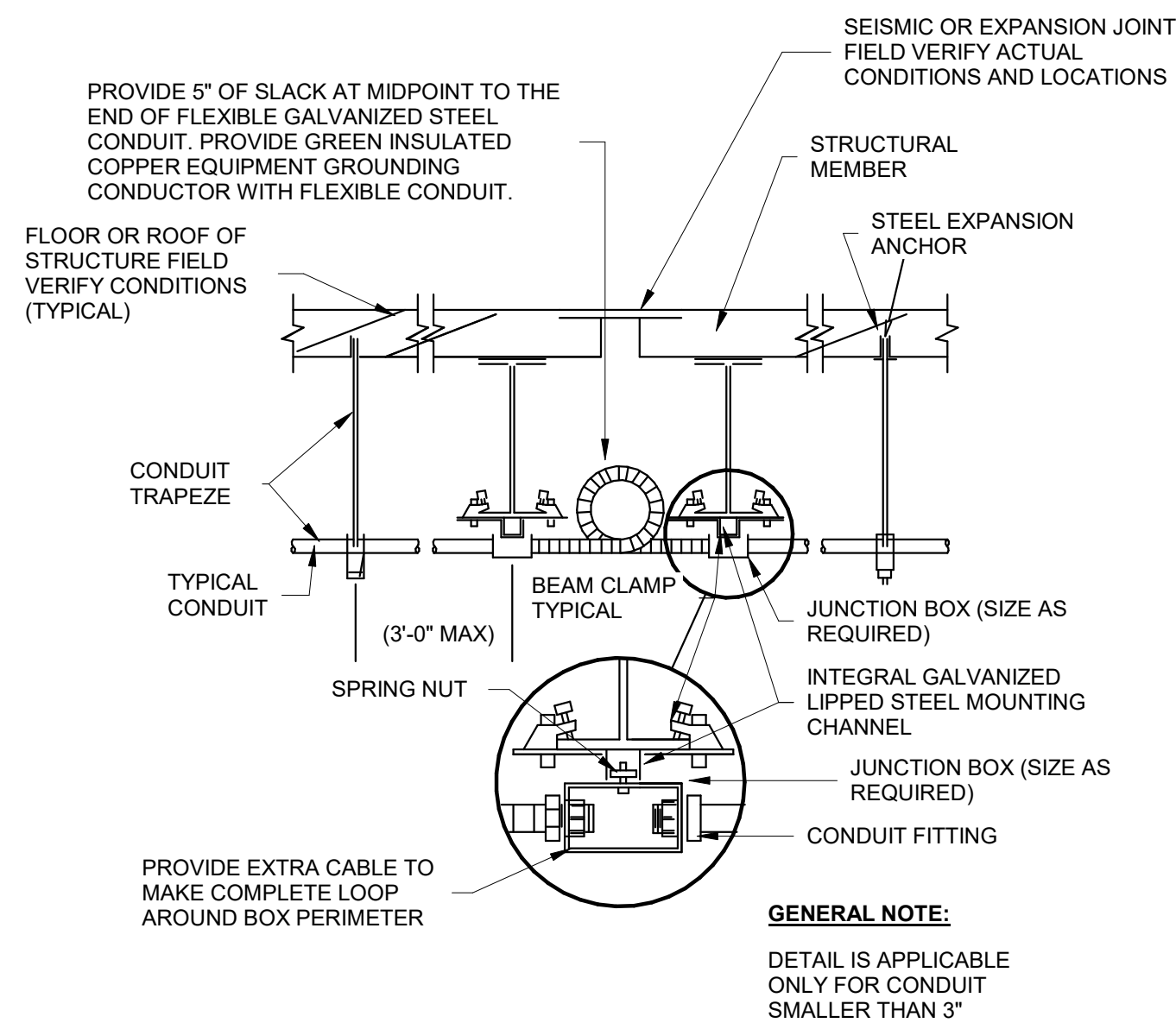


ENGINEER'S SIGNATURE

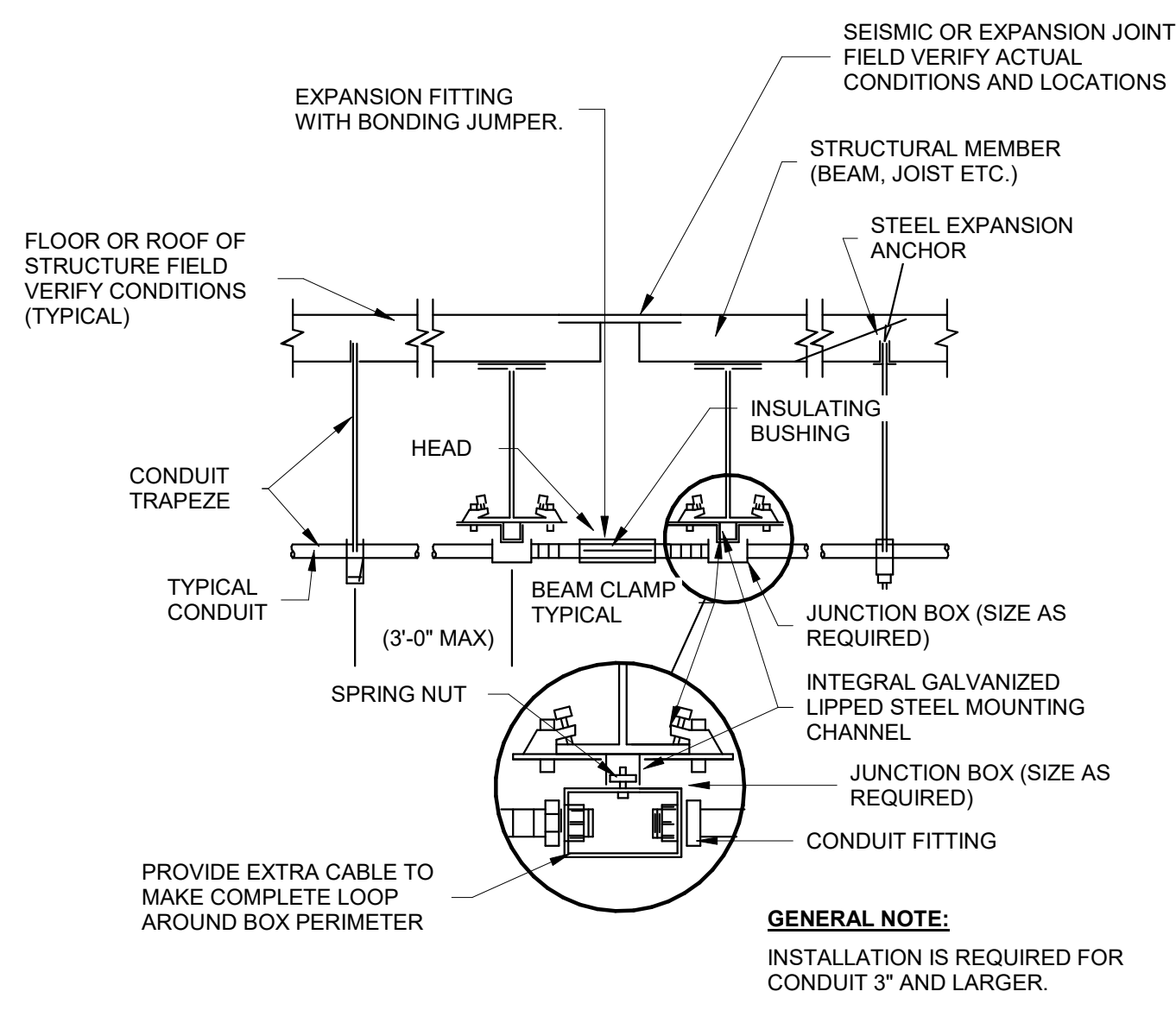
SHEET TITLE: ELECTRICAL DETAIL SHEET
 PROJECT NAME: Chinle HMO Building Navajo Housing Authority

Revisions	Mark	Date	Description

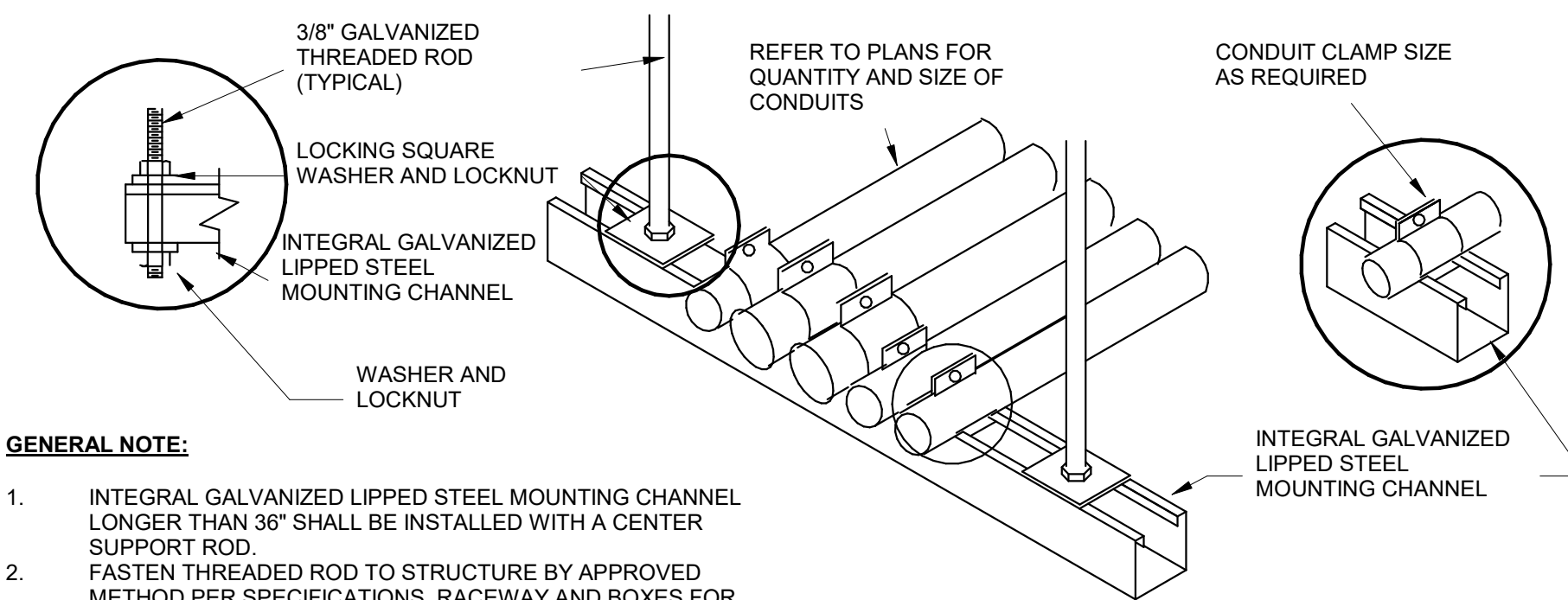
PROJECT NUMBER: 2020-0416
 FILE:
 DRWN. BY: BLT
 CHKD BY: BLT
 DATE: 11/12/2021
 SHEET OF
E-501



1 CONDUIT EXPANSION JOINT DETAIL - SMALL
SCALE: NTS



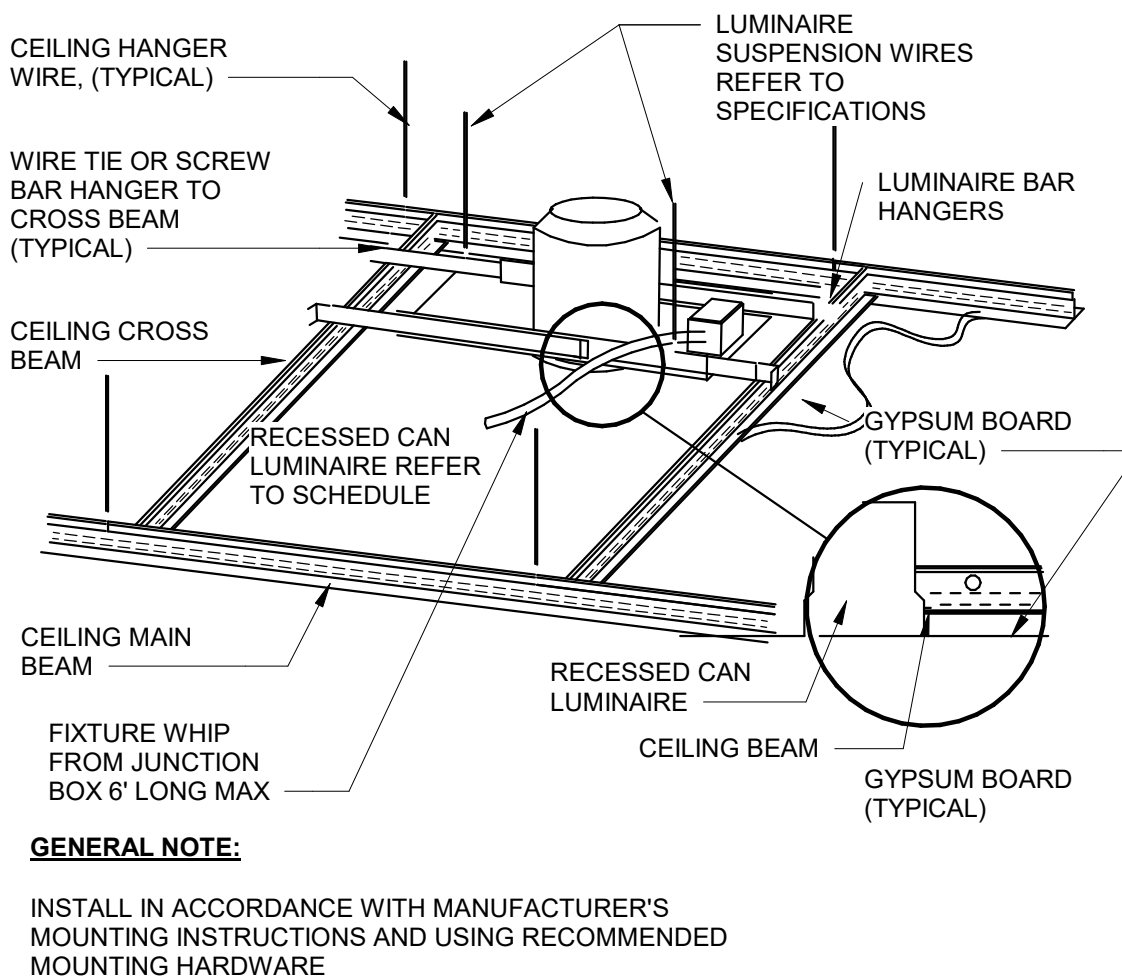
2 CONDUIT EXPANSION JOINT DETAIL - LARGE
SCALE: NTS



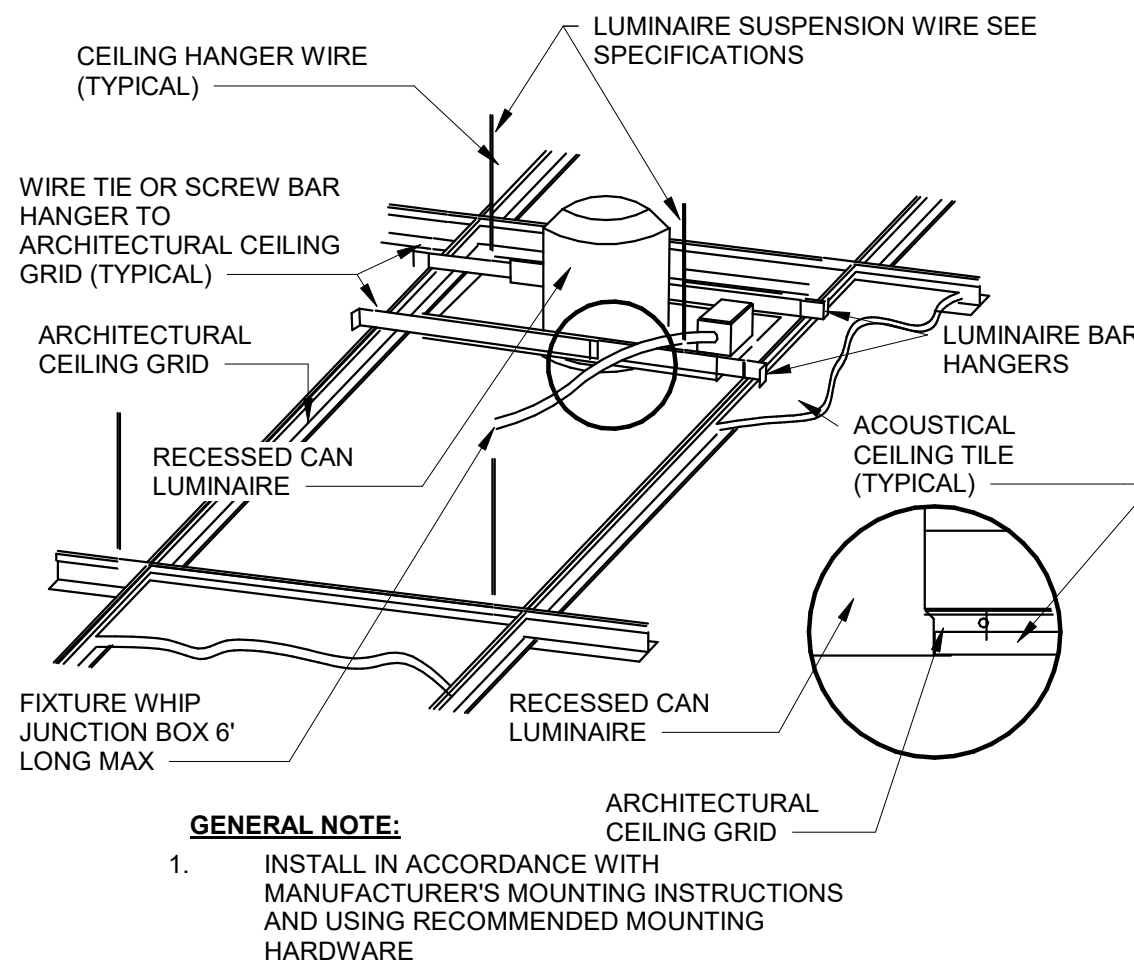
GENERAL NOTE:

1. INTEGRAL GALVANIZED LIPPED STEEL MOUNTING CHANNEL LONGER THAN 36\"/>

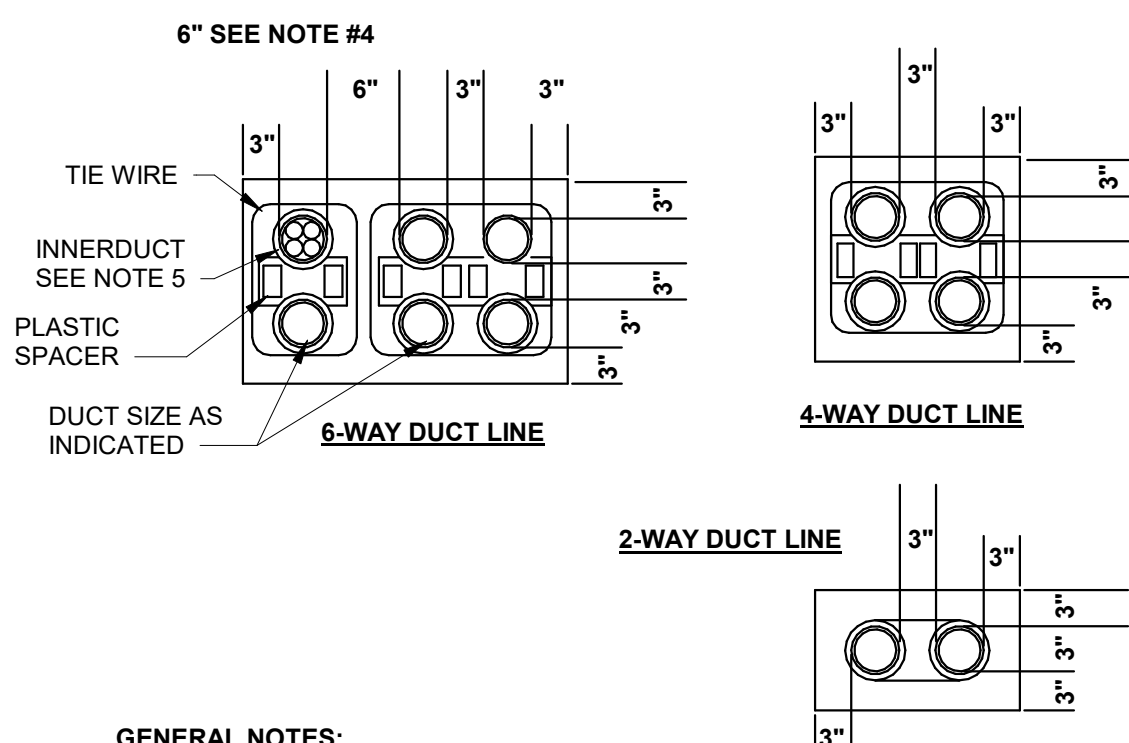
3 CONDUIT TRAPEZE MOUNTING DETAIL
SCALE: NTS



4 DOWNLIGHT MOUNTING GYP BOARD DETAIL
SCALE: NTS



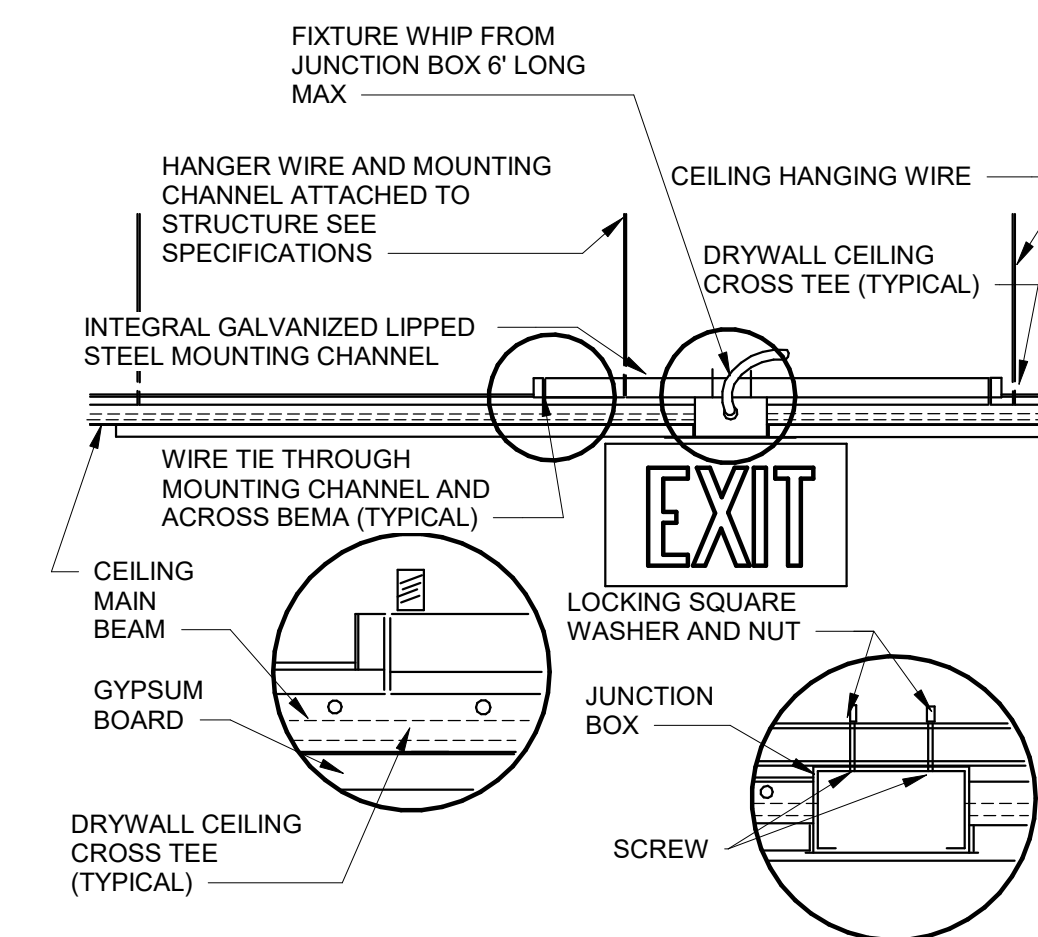
5 DOWNLIGHT MOUNT LAY-IN CEILING DETAIL
SCALE: NTS



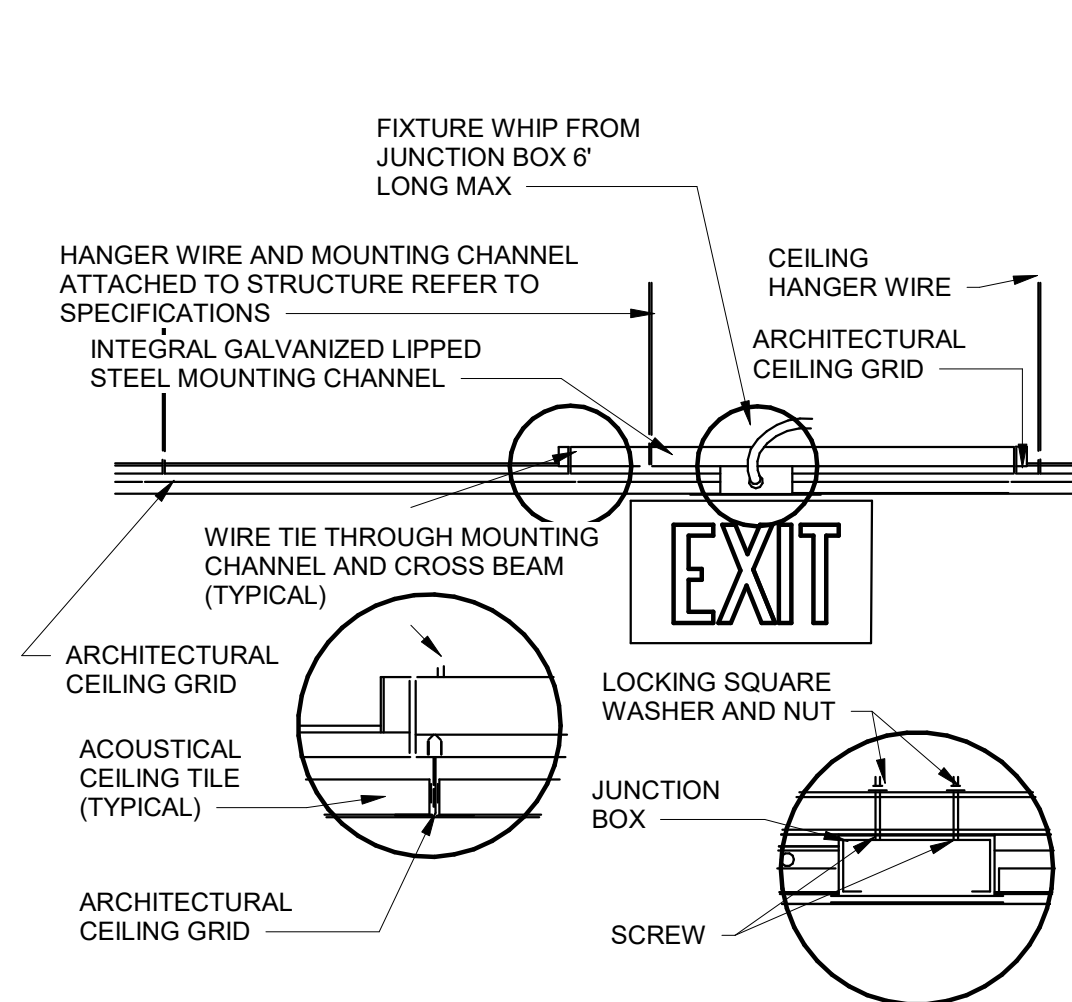
GENERAL NOTES:

1. CONCRETE SHALL BE 2000 PSI @ 28 DAYS OR AS SPECIFIED
2. PROVIDE #4 REINFORCING RODS ON TOP AND BOTTOM OF DUCTS WHEN CROSSING OR PLACED IN ROADWAYS
3. MINIMUM COVER TO TOP OF ENVELOPE SHALL BE 24\"/>

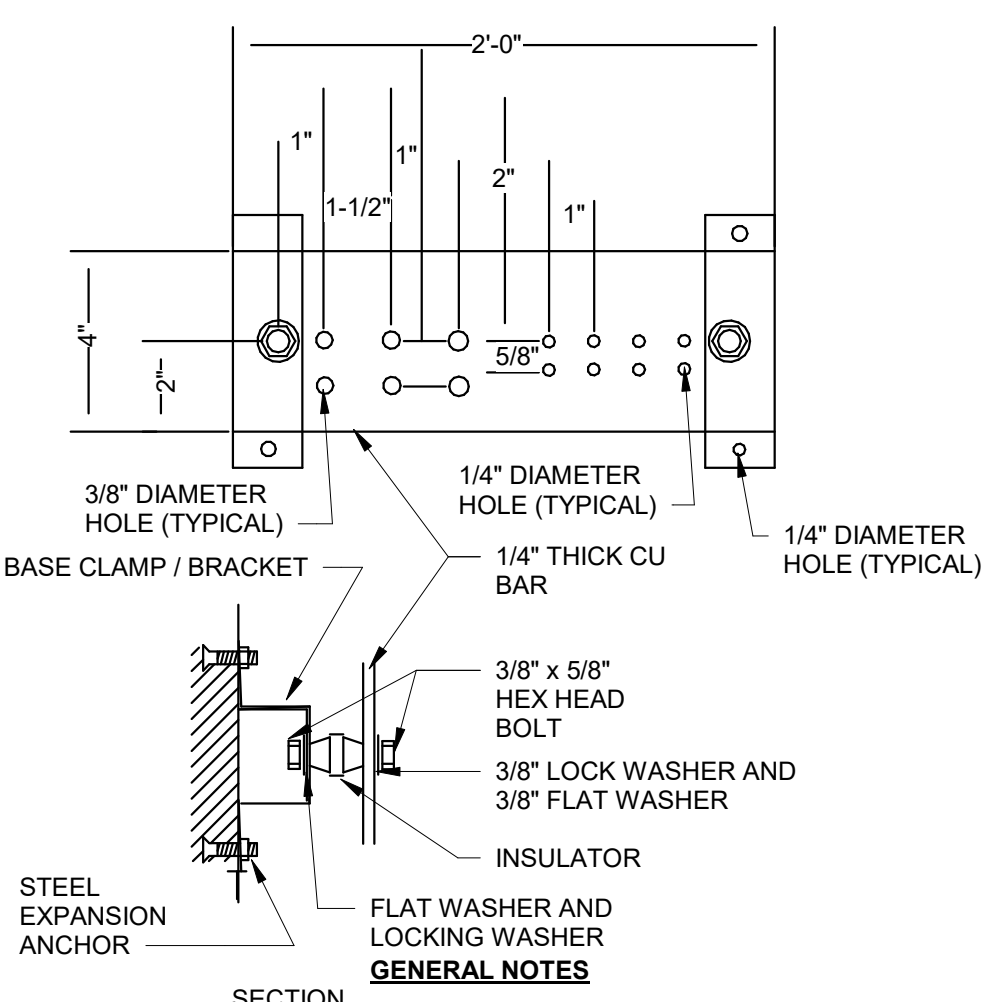
6 CONDUIT EXPANSION JOINT CROSSING DETAIL
SCALE: NTS



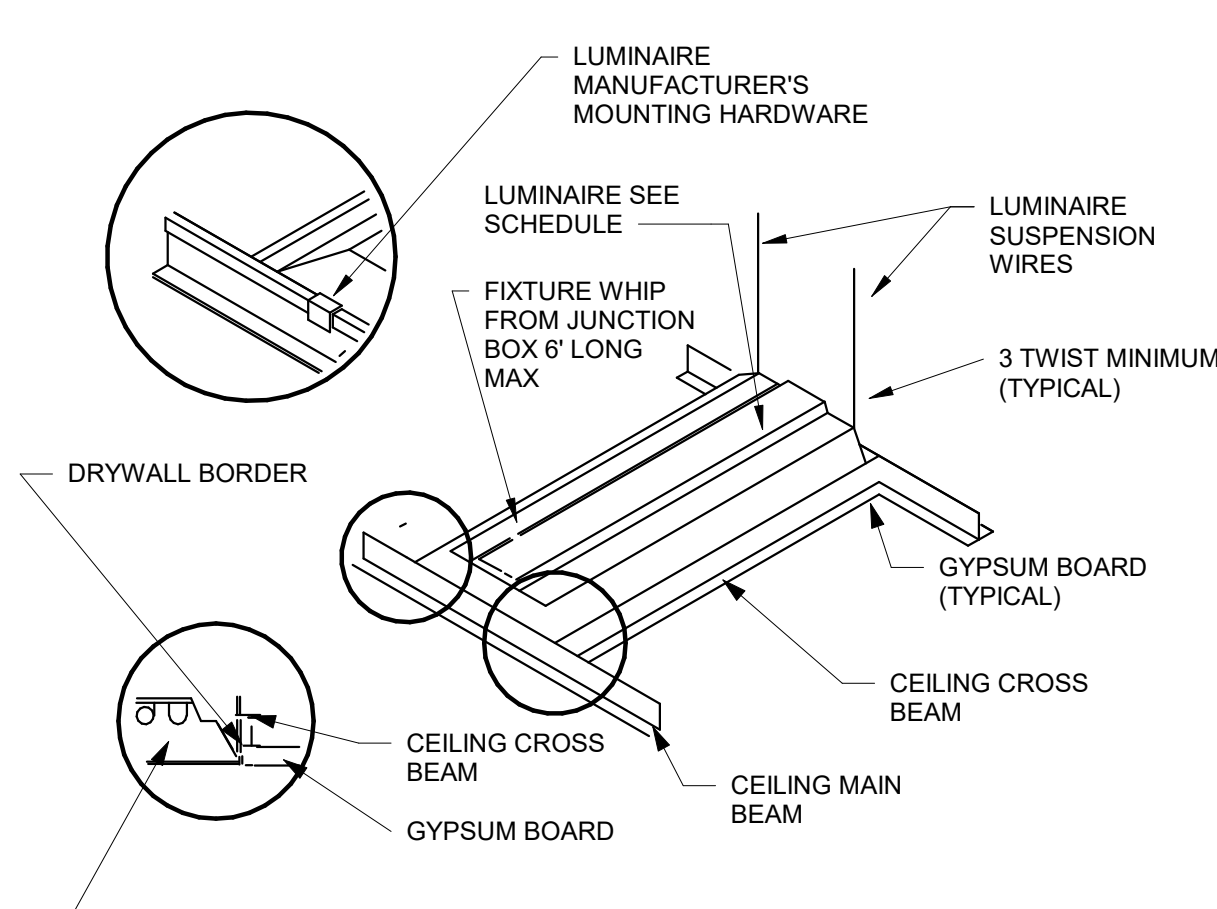
7 EXIT SIGN MOUNTING GYP BOARD CEILING DETAIL
SCALE: NTS



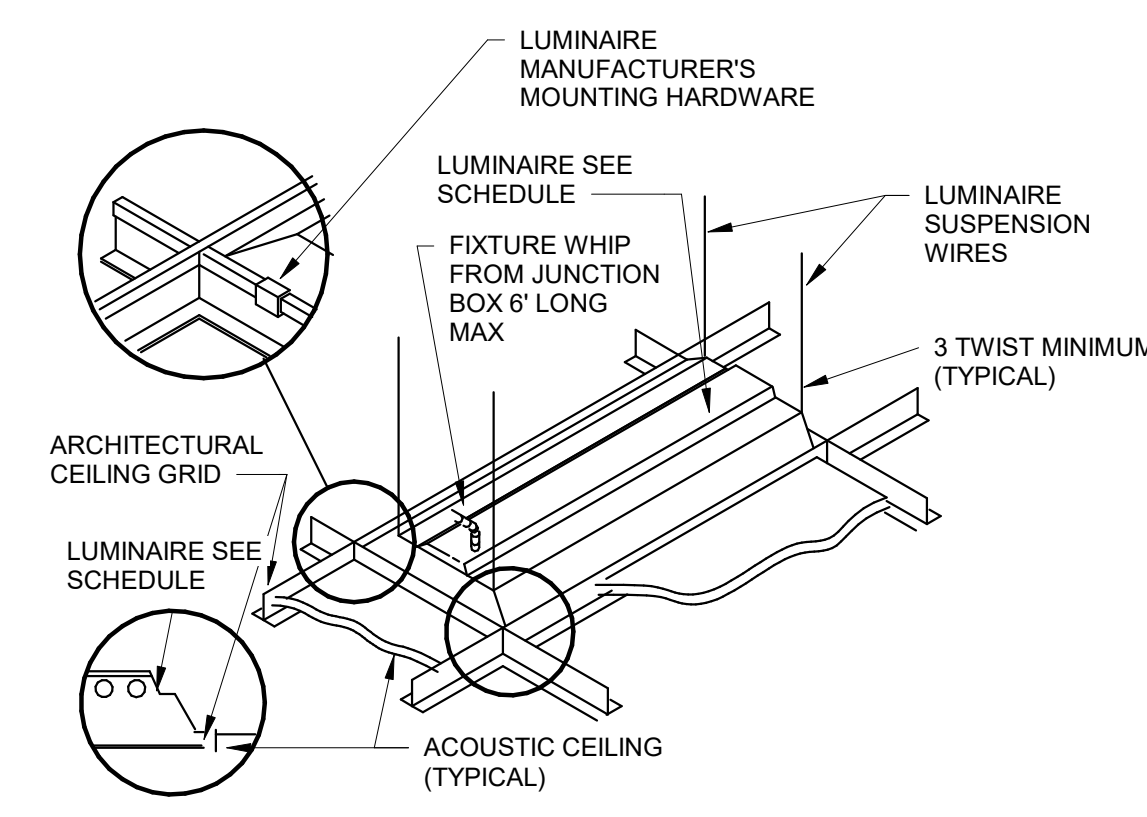
8 EXIT SIGN MOUNTING LAY-IN CEILING DETAIL
SCALE: NTS



9 GROUNDING BAR DETAIL
SCALE: NTS



10 LUMINAIRE MOUNTING GYP. CEILING DETAIL
SCALE: NTS

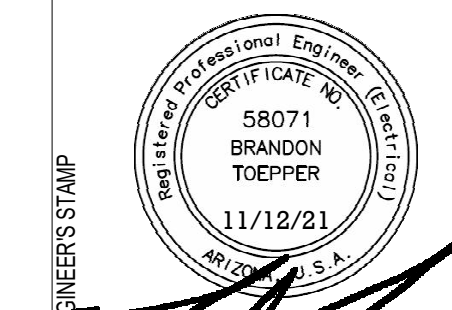


11 LUMINAIRE MOUNTING GYP. CEILING LAY-IN DETAIL
SCALE: NTS

GENERAL PROJECT NOTES:

A. DETAILS SHOWN ARE FOR ADDITIONAL INFORMATION ONLY. EVERY DETAIL MAY NOT BE UTILIZED DURING THE INSTALLATION.

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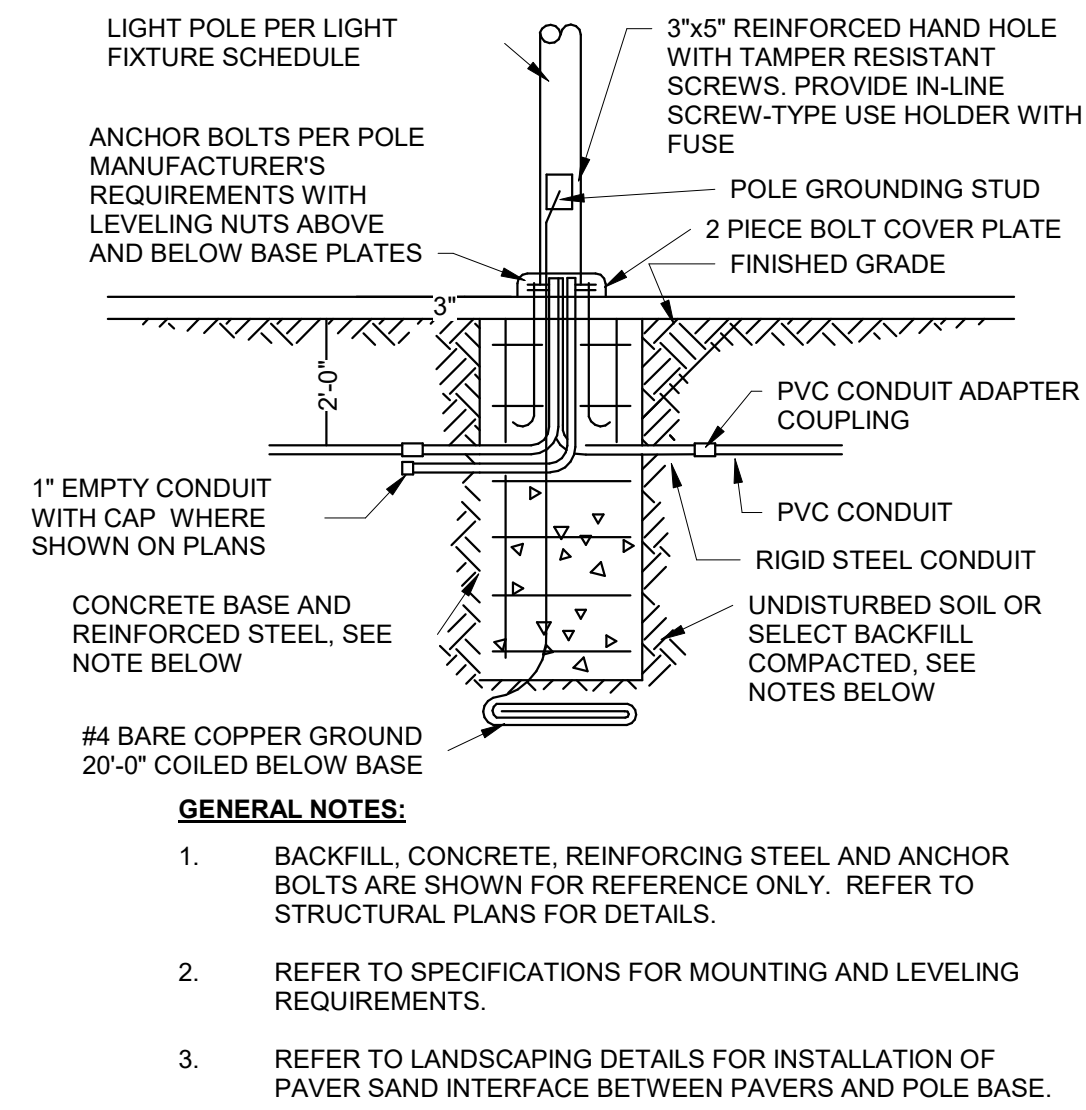


ENGINEER'S SIGNATURE

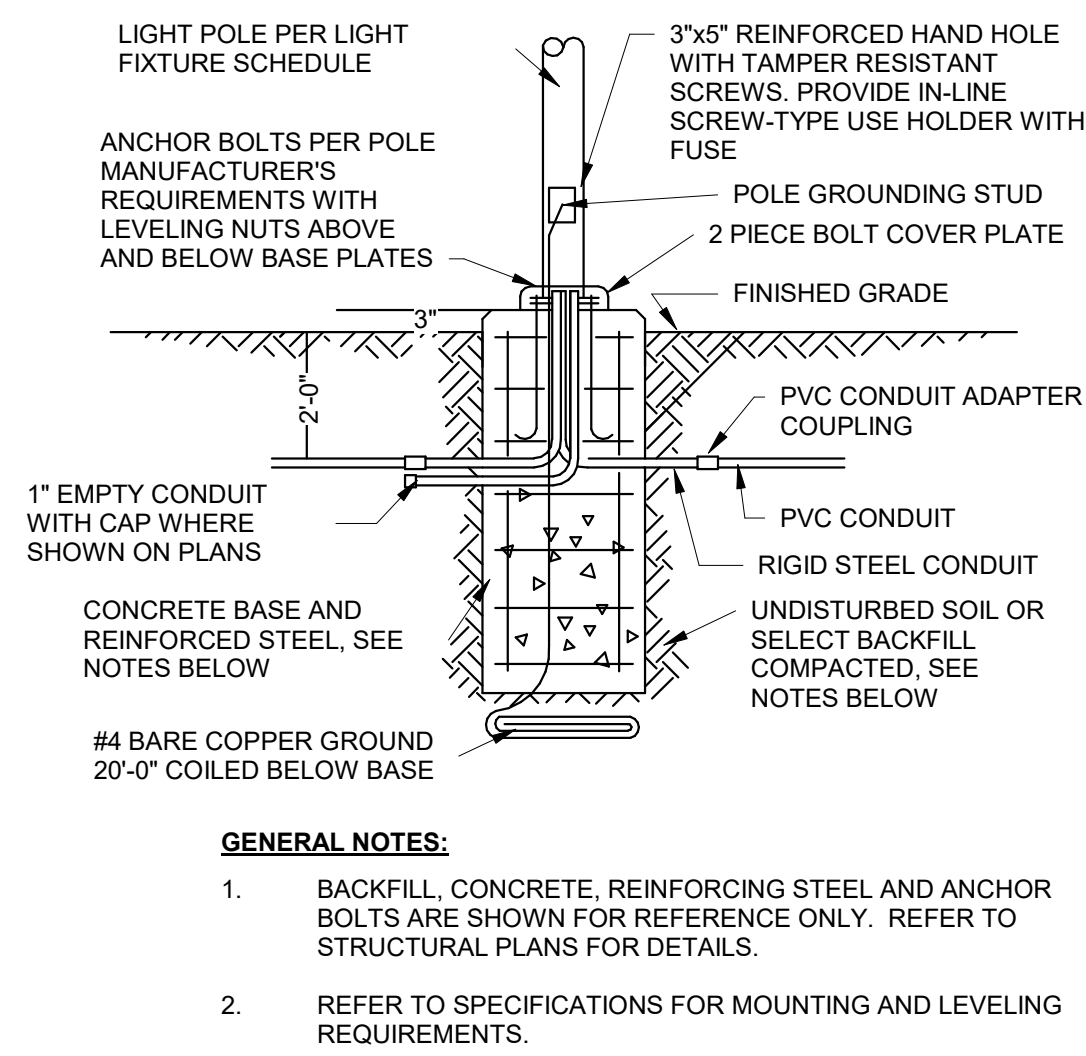
SHEET TITLE:
ELECTRICAL DETAIL SHEET
PROJECT NAME:
Chinle HMO Building
Navajo Housing Authority

Revisions	Description	Date	Mark

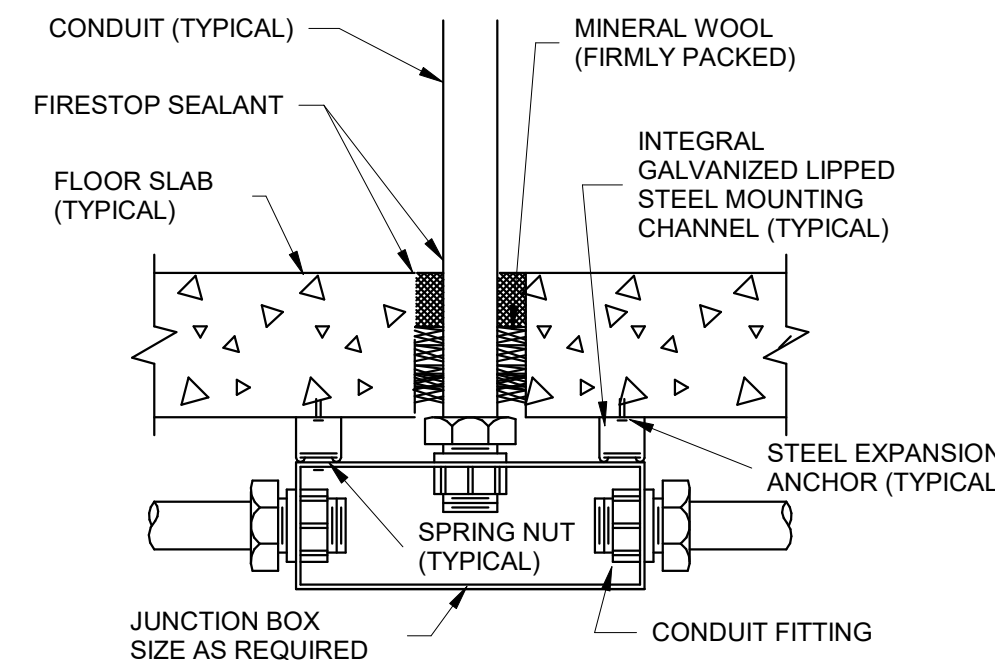
PROJECT NUMBER: 2020-0416
FILE:
DRWN. BY: BLT
CHKD BY: BLT
DATE: 11/12/2021
SHEET OF
E-502



1 POLE BASE DETAIL - PAVED AREAS
SCALE: NTS



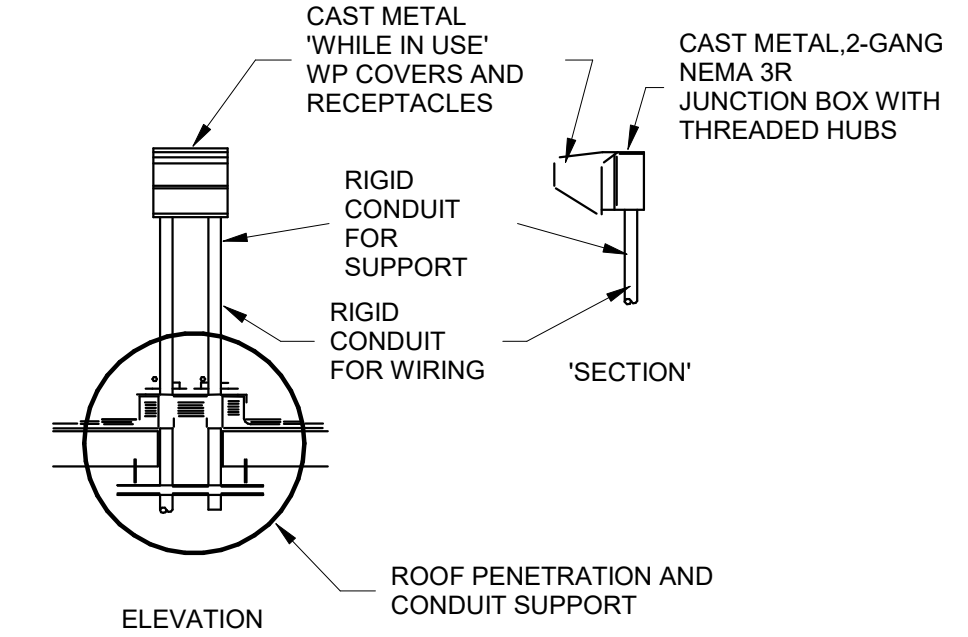
2 POLE BASE DETAIL - TURF AREAS
SCALE: NTS



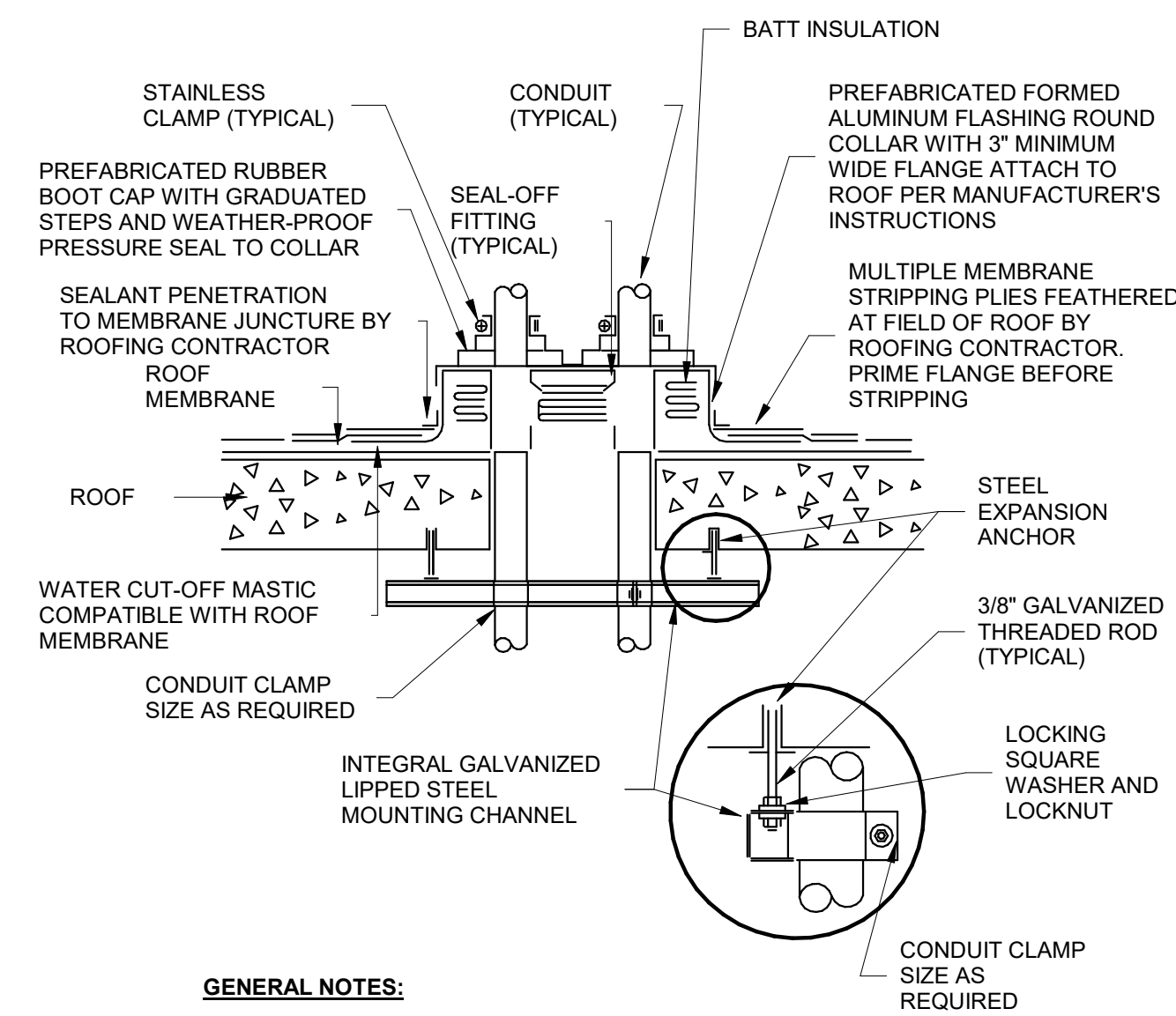
3 FLOOR SLAB PENETRATION DETAIL
SCALE: NTS

GENERAL PROJECT NOTES:

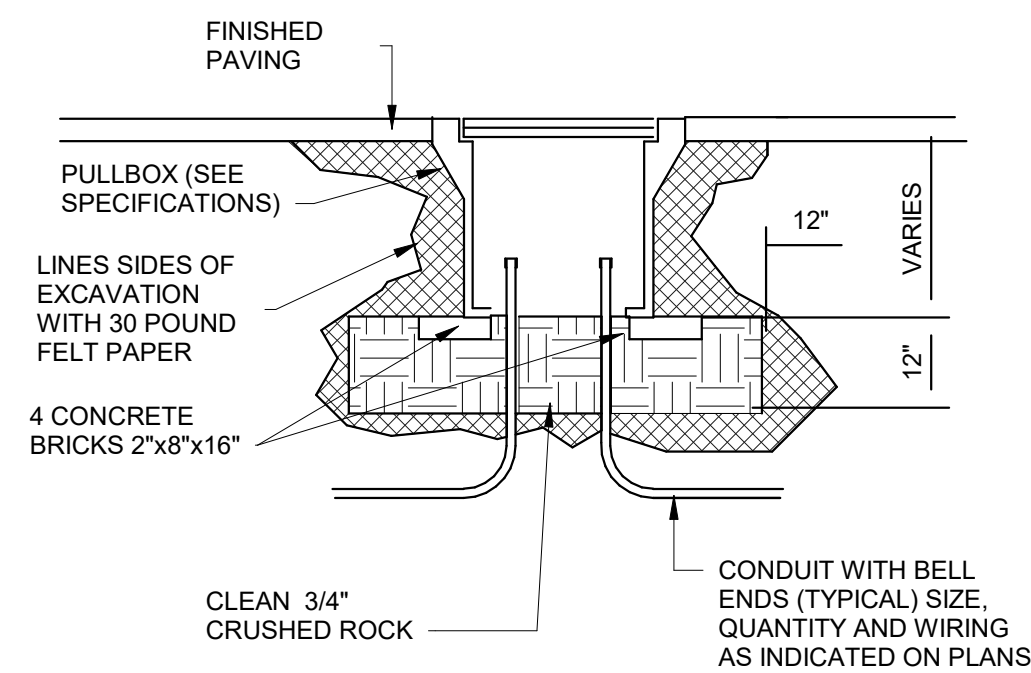
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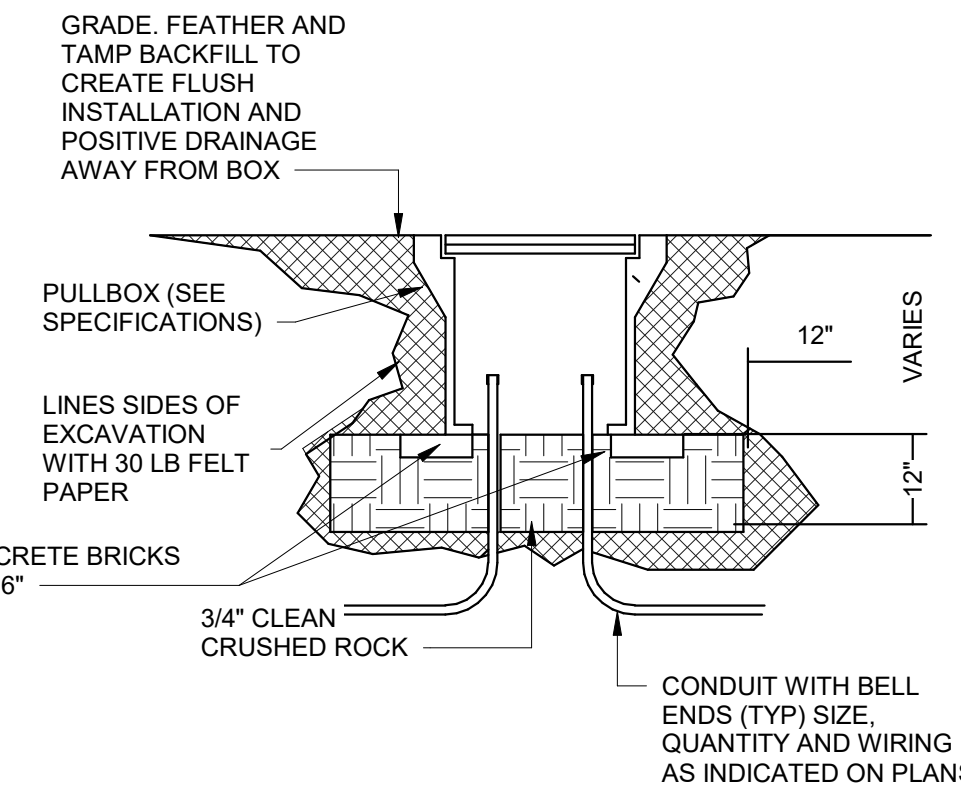
4 RECEPTACLE ROOF MOUNTING DETAIL
SCALE: NTS



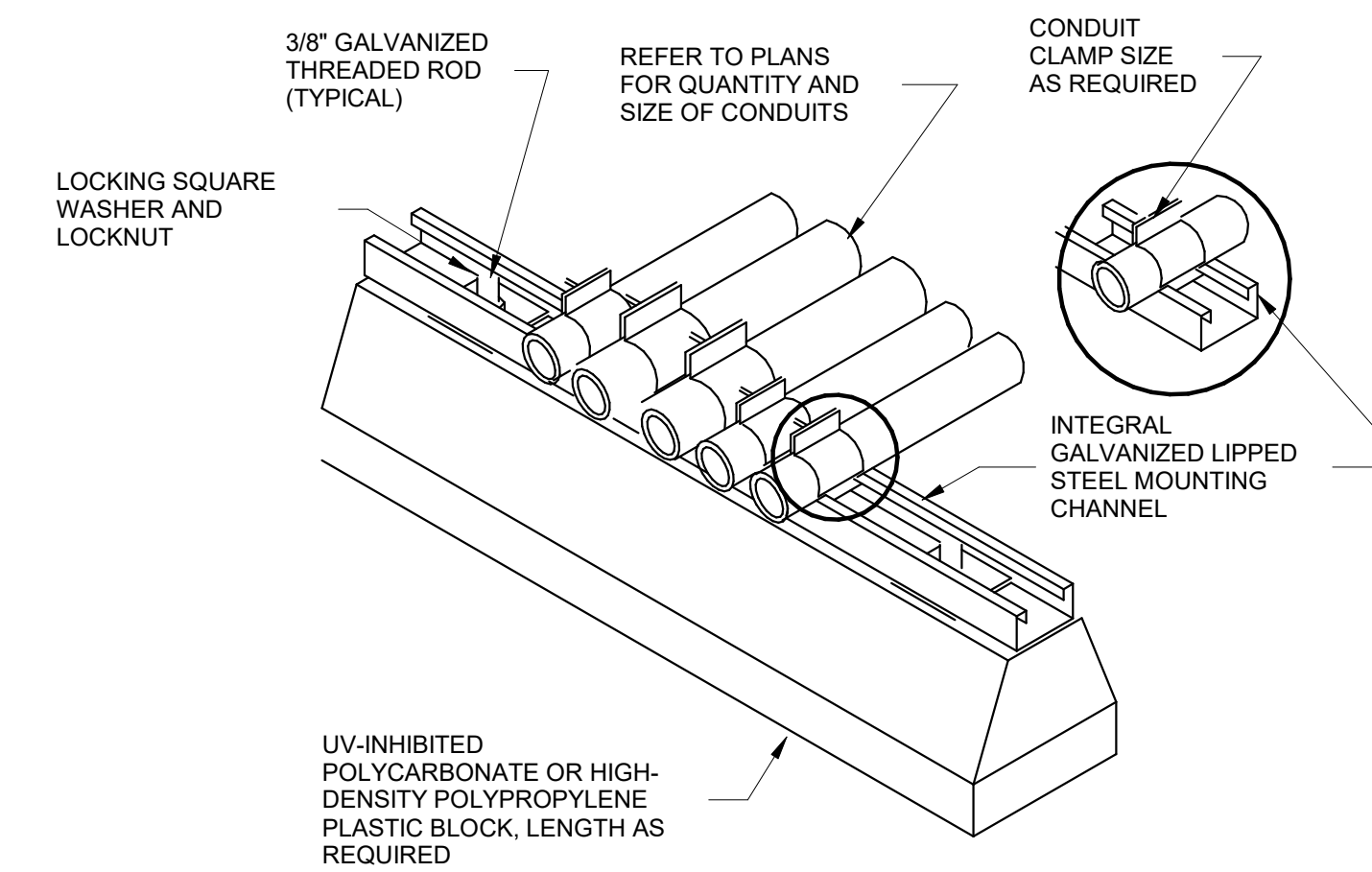
5 CONDUIT ROOF PENETRATION DETAIL
SCALE: NTS



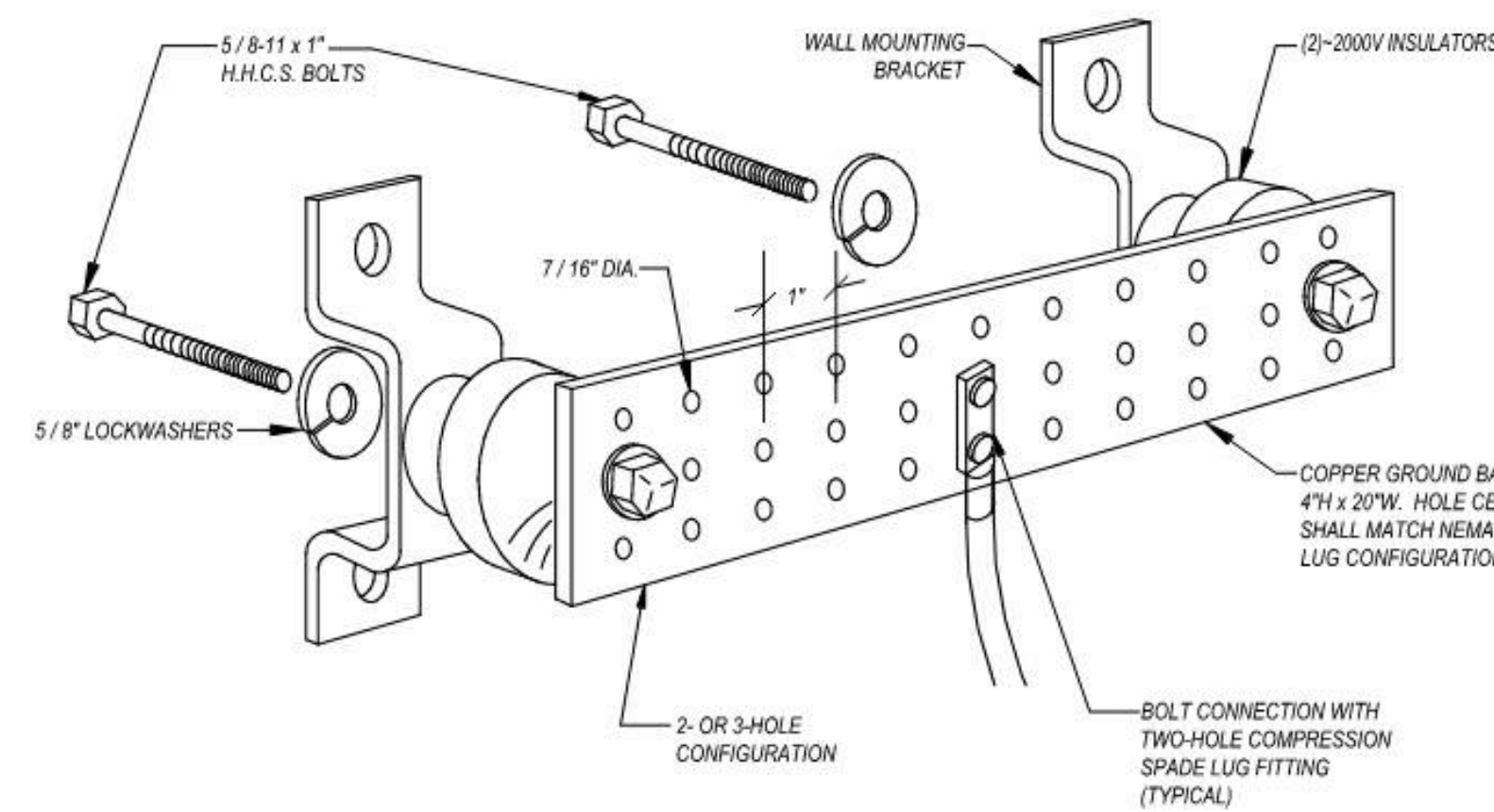
6 UNDERGROUND CONCRETE PULLBOX - PAVED AREA
SCALE: NTS



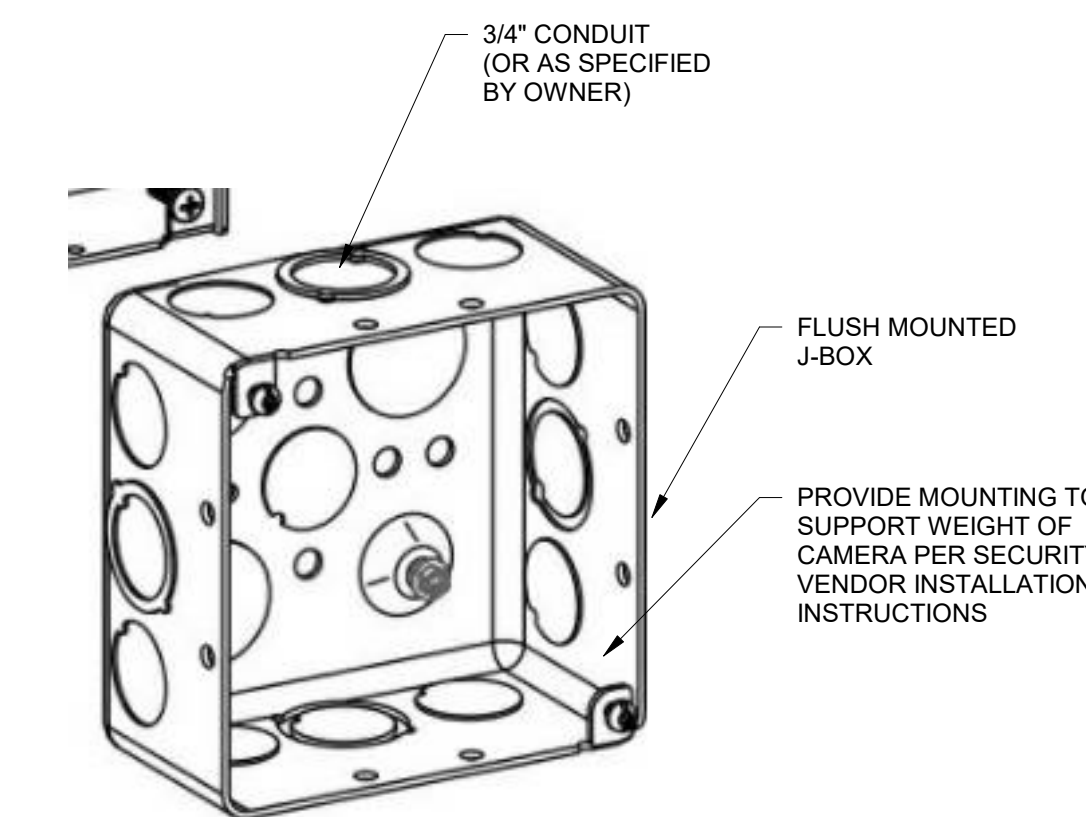
7 UNDERGROUND CONCRETE PULLBOX - TURF AREA
SCALE: NTS



8 ROOF CONDUIT SUPPORT DETAIL
SCALE: NTS



9 GROUNDING BUS DETAIL
SCALE: NTS



10 FLUSH MOUNTED J-BOX FOR SECURITY CAMERA MOUNTING
SCALE: NTS

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ELECTRICAL DETAIL SHEET
PROJECT NAME:
Chinle HMO Building
Navajo Housing Authority

Revisions	Description	Date	Mark

PROJECT NUMBER: 2020-0416
FILE:
DRWN. BY: BLT
CHKD BY: BLT
DATE: 11/12/2021
SHEET OF
E-503

KEYED NOTES ON SHEET:

- 1. PROVIDE MECHANICAL LOCK TO THE "ON" POSITION TO PREVENT TAMPERING WITH EMERGENCY SYSTEMS.

Branch Panel: A

Location:
Supply From: METER
Mounting: Surface
Enclosure:

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

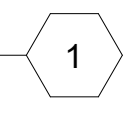
Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LIGHTING #1	20 A	1	480 VA	450 VA					1	20 A	LIGHTING #2	2
3	LIGHTING #3	20 A	1			660 VA	610 VA			1	20 A	LIGHTING #4	4
5	LIGHTING #5	20 A	1					320 VA	720 VA	1	20 A	LIGHTING #6	6
7	EXTERIOR LIGHTING #1	20 A	1	420 VA	490 VA					1	20 A	EXTERIOR LIGHTING #2	8
9	EMERGENCY LIGHTING	20 A	1			1300 VA	1080 VA			1	20 A	RECEPTACLE #1 OFFICE	10
11	RECEPTACLE #2 OFFICE	20 A	1					1080 VA	1440 VA	1	20 A	RECEPTACLE SMALL CONFERENCE	12
13	RECEPTACLE KITCHEN	20 A	1	360 VA	600 VA					1	20 A	OVEN	14
15	FRIDGE	20 A	1			1000 VA	200 VA			1	20 A	RANGE HOOD	16
17	RECEPTACLE #3 OFFICE	20 A	1					540 VA	540 VA	1	20 A	RECEPTACLE #4 OFFICE	18
19	RECEPTACLE #1 FILE / COPY	20 A	1	1200 VA	1200 VA					1	20 A	RECEPTACLE #2 FILE / COPY	20
21	RECEPTACLE #3 FILE / COPY	20 A	1			1200 VA	1260 VA			1	20 A	RECEPTACLE LOBBY	22
23	RECEPTACLE #5 OFFICE	20 A	1					1080 VA	540 VA	1	20 A	RECEPTACLE MECH	24
25	RECEPTACLE ELEC	20 A	1	540 VA	540 VA					1	20 A	RECEPTACLE #1 IT	26
27	RECEPTACLE #2 IT	20 A	1			1900 VA	1900 VA			1	20 A	RECEPTACLE #3 IT	28
29	RECEPTACLE RECEPTION	20 A	1					900 VA	540 VA	1	20 A	RECEPTACLE RRS	30
31	RECEPTACLE #1 CONFERENCE	20 A	1	900 VA	900 VA					1	20 A	RECEPTACLE #2 CONFERENCE	32
33	RECEPTACLE #3 CONFERENCE	20 A	1			1200 VA	1200 VA			1	20 A	RECEPTACLE #4 CONFERENCE	34
35	RTU-1	35 A	3					2417 VA	3133 VA	3	35 A	RTU-5	36
37	--	--	--	2417 VA	3133 VA					--	--	--	38
39	--	--	--			2417 VA	3133 VA			--	--	--	40
41	RTU-3	35 A	3					2417 VA	3133 VA	3	30 A	RTU-4	42
43	--	--	--	2417 VA	3133 VA					--	--	--	44
45	--	--	--			2417 VA	3133 VA			--	--	--	46
47	EF-1	20 A	1					500 VA	5000 VA	1	60 A	WATER HEATER	48
49	RECEPTACLE #5 CONFERENCE	20 A	1	540 VA	1000 VA					1	20 A	GATE OPERATORS	50
51	RECEPTACLE ROOFTOP	20 A	1			540 VA	900 VA			1	20 A	EXTERIOR RECEPTACLE	52
53	PARKING LOT LIGHTING	20 A	1					1600 VA	540 VA	1	20 A	RECEPTACLE #6 OFFICE	54
55	RECEPTACLE #7 OFFICE	20 A	1	720 VA	250 VA					1	20 A	WATER FOUNTAIN	56
57	RECEPTACLE CEILING SMALL...	20 A	2			500 VA	500 VA			2	20 A	RECEPTACLE CEILING CONFERENCE	58
59	--	--	--					500 VA	500 VA	--	--	--	60
61	FCU-1	20 A	2	125 VA	125 VA					2	20 A	FCU-2	62
63	--	--	--			125 VA	125 VA			--	--	--	64
65	HP-1	20 A	2					1050 VA	1800 VA	2	30 A	HP-2	66
67	--	--	--	1050 VA	1800 VA					--	--	--	68
69	RTU-2	30 A	3			3133 VA	1000 VA			1	20 A	FIRE/SMOKE DAMPERS	70
71	--	--	--					3133 VA	3000 VA	1	30 A	RECEPTACLE UPS	72
73	--	--	--	3133 VA	360 VA					1	20 A	MONITORS CONFERENCE	74
75	[[SPACE]]	--	--			0 VA	0 VA			--	--	[[SPACE]]	76
77	<SPARE>	20 A	1					0 VA	0 VA	1	20 A	<SPARE>	78
79	<SPARE>	20 A	1	0 VA	0 VA					1	20 A	<SPARE>	80
81	<SPARE>	20 A	1			0 VA	0 VA			1	20 A	<SPARE>	82
83	<SPARE>	20 A	1					0 VA	0 VA	1	20 A	<SPARE>	84
Total Load:				28197 VA		31372 VA		36301 VA					
Total Amps:				235 A		266 A		307 A					

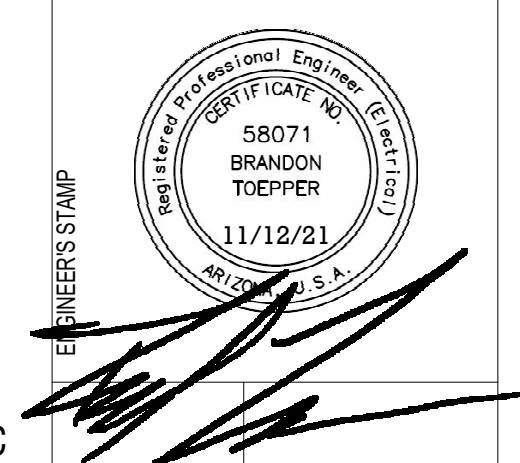
Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting - Exterior	2510 VA	125.00%	3138 VA	Total Conn. Load: 95689 VA Total Est. Demand: 85317 VA Total Conn.: 266 A Total Est. Demand: 237 A
Other	1300 VA	100.00%	1300 VA	
Receptacle	31950 VA	65.65%	20975 VA	
Power	56960 VA	100.00%	56960 VA	
Lighting	3240 VA	100.00%	3240 VA	

Notes:



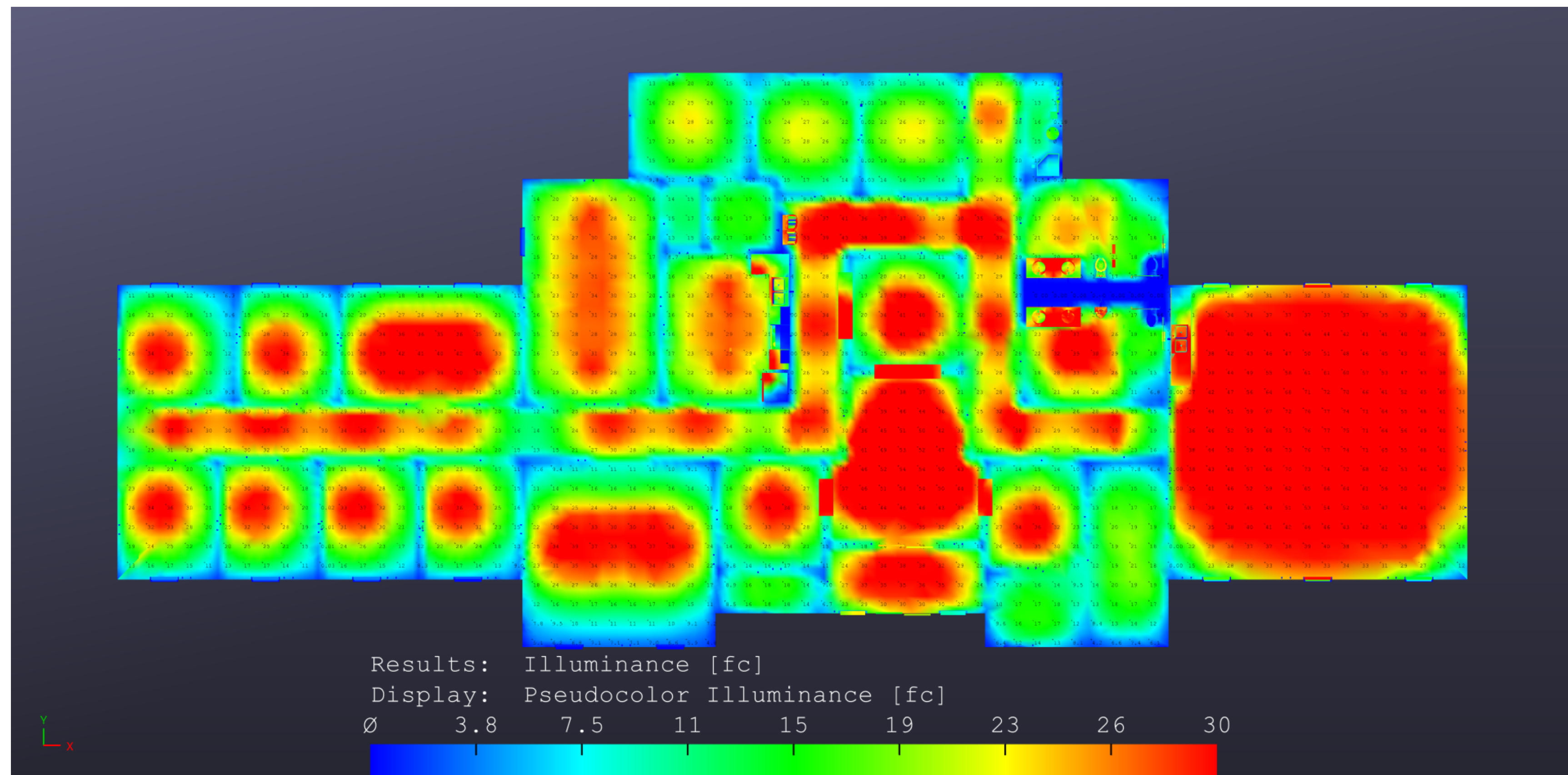
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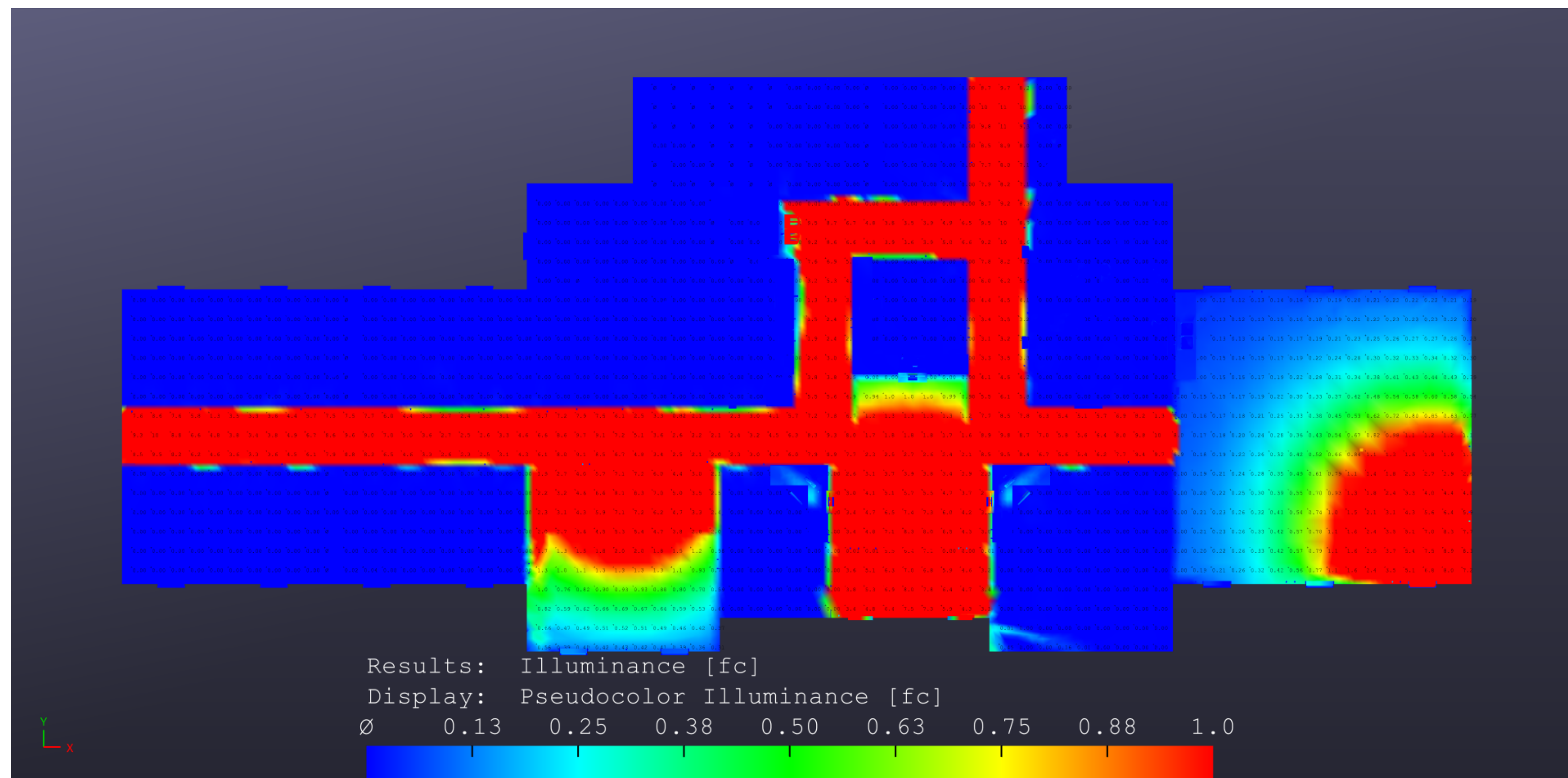
ELECTRICAL SCHEDULE SHEET
PROJECT NAME:
Chinle HMO Building
Navajo Housing Authority

Revisions	Mark	Date	Description

PROJECT NUMBER: 2020-0416
FILE:
DRWN. BY: BLT
CHKD BY: BLT
DATE: 11/12/2021
SHEET OF
E-701



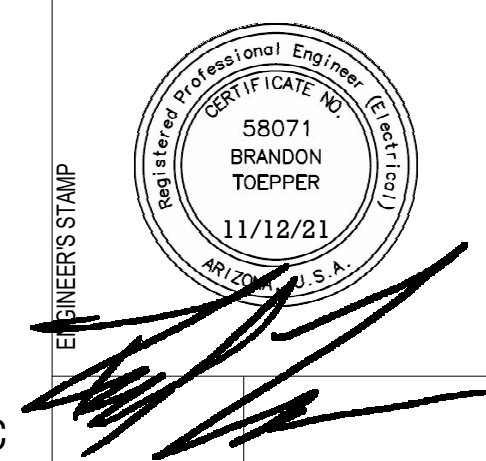
1 GENERAL LIGHTING CALCULATION
 SCALE: NTS



2 EMERGENCY LIGHTING CALCULATION
 SCALE: NTS

DATE PLOTTED: 11/10/2021 3:10:40 PM

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ELECTRICAL LIGHTING CALCULATIONS
 PROJECT NAME:
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Revisions		Description
Mark	Date	

PROJECT NUMBER: 2020-0416
 FILE:
 DRWN. BY: BLT
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 DATE: 11/12/2021
 SHEET OF
E-710