

CODE - IBC 2009

OCCUPANCY GROUP:

Bays/tunnel/waste unloading/tip floor/recycling: F-2 (IBC 306.3)
Office spaces: B (IBC 304)

FIRE PROTECTION

Building is not sprinklered; a 10,000 gallon water tank with a fire dept. connection is provided
Standpipe not req'd per sec 905
Fire alarm not req'd per 907.2.2 and 907.2.4 (occupancy load not great enough)

CONSTRUCTION CLASSIFICATION: V-B

AREA/HEIGHT OF BUILDING:

Allowable height = 40' (IBC Table 503), actual 38' at top of pitch at highest point (tunnel)
Number of stories - 2 allowed, actual: split level
Allowable area: 9,000 sf for B and F-2
Total area actual - 6713 sf
Area modification not required

OCCUPANCY SEPARATION (FIRE BARRIERS)

B separated from F-2 - 1 hour (IBC Table 508.4)
Max. size of a single opening - 120 sf (IBC 706.7), 90 min. label (715.2)
Openings in fire barrier - max. aggregate width of 25% of wall (IBC 706.7) = 25% of 201 sf
Allowed - 50 sf, Actual - 42 sf

All storage areas < 1,000 sf - no separation required (IBC Table 508.2.5)

Occupancy separation not required at mech rooms <40,000 BTU, boiler <15 psi and <10 HP (Table 508.2.5)

FIRE RESISTANCE RATINGS/SEPARATIONS

For V-B (IBC table 602)
Structural frame, interior bearing walls, interior non-bearing walls and partitions, floor construction, roof construction - 0 rating
Exterior bearing walls - 0 hour
Exterior non-bearing walls - Group B and S-2 (IBC Table 602)
Fire separation distance <10' = 1 hour
Fire separation distance >=10' = 0 hour

Wall/ceilings of all spaces/corridors/exitways - Class C (IBC 803.5)

Maximum area of exterior wall openings (IBC Table 704.8, IBC 704.8.1)
all adjacent buildings >30' - no limit

OCCUPANT LOAD: TOTAL: 42

based on occupancies (Table 1004.1.1) - within building 42

EXITING

Width of egress required - .2"/occupant x 42 occupants = 8.4" (IBC1005.1)
Provided - 108"

Doors cannot reduce required width to less than 1/2 (IBC 1005.2)
Doors cannot project >7" into required width (IBC 1005.2)

Egress is continuous to public way (IBC 1007.2)

Number of exits required - 1 for <49 occupants (IBC 1015.1), Provided - 2
Exit signs not required in rooms which require only one exit (IBC 1011)

Corridor fire resistance rating - 1 hours (IBC Table 1018.1)

Required corridor width - 44" (IBC 1018.2), Provided - 70"

Dead end corridor length - 20' (IBC 1018.4), Max. provided - 0'

Max. length egress travel 100' (IBC 1014.3 exception 1 for B and F), max. provided 78'-0"

Max. length exit access travel 200' for B, 300' for F-2 (IBC 1016.1), max. provided 78'-0"

PLUMBING COUNTS:

Occupant load = 42 (21 male, 21 female)

Table with columns for Public Restrooms, Admin Area (B), and Waste Collection (F-2). Rows include counts for toilets (men/women), lavs (men/women), and total required vs total provided.

DFs - 1:100 = 1 required, bottled water provided

1 service sink required, 1 sink provided in breakroom (IBC Chapter 29)

JACONA COLLECTION CENTER

SANTA FE COUNTY

GENERAL NOTES

- 1. All references to the Building Code or Building Department shall be construed to mean the rules and regulations adopted by the State of New Mexico.
2. The Contractor shall visit the Project Site to familiarize himself with existing conditions and to verify all elevations, dimensions and conditions of existing building(s) and site.
3. It is the responsibility of the Contractor to secure the worksite to render it adequately protected at all times.
4. The Contractor shall perform his work so that there is a minimum of disruption caused to those portions of the building(s) and site where there is no work taking place.
5. All construction refuse and debris shall be removed from the job site not less than once a week and shall be properly disposed of off the property.
6. Work for this project shall be carried out in accordance with State and Local Codes and requirements of any other agency having jurisdiction.
7. Where conflicts occur between the Contract Drawings, Specifications, Field Conditions and/or the Building Code, the most stringent requirements shall apply, in the sole judgment of the Architect.
8. Dimensions have preference over scale. Where dimensions conflict, the most restrictive shall apply.
9. All work shall be executed in accordance with the best accepted trade practices and per manufacturers' recommendations.
10. The Contractor shall coordinate his work with all the Subcontractors. The work shall be coordinated in such a manner that any Subcontractor shall not delay or interfere with carrying forward the work of any other Subcontractor.
11. Where pipes, wires, conduits, ducts, etc., pierce the Fire Protection of individually encased structural members or fire-rated walls and ceilings, such penetrations shall not exceed 2% of the area of fire protection on any one face.
12. The Contractor shall be solely responsible for delivery of materials and equipment to the Project Site.
13. After site work is laid out, it must be reviewed by the Architect prior to construction.
14. Blocking is required for all wall and ceiling mounted specialties and equipment.
15. The Contractor is responsible for ensuring that there are no breaches in vapor barriers.
16. Positive Drainage away from the building is the responsibility of the Contractor.
17. Sprinkler and alarm system shop drawings must be submitted to State Fire Marshal and Architect prior to Construction.
18. Paint all exposed fire protection, mechanical, ducts, pipes, conduit.
19. Slope all concrete sidewalks and all grades adjacent to building 1/4"/foot for positive drainage.
20. Contractor shall be responsible for locating conduit/cable tray/sprinkler pipes such that adequate access to duct controls is maintained.
21. Contractor shall verify all field conditions and shop drawings and shall alert architect immediately to conflicts in the drawings.
22. Contractor shall remove all items associated with demolition, including but not limited to electrical and mechanical devices, outlets, switches, wiring, conduit and all site items.
23. It is the Contractor's responsibility to position ducts in relation to pipes/ceilings to maintain access to controls.
24. Provide 2% min. for surface runoff. All walkways 1:20 max.
25. If keyed notes are now shown, Contractor must find the reference on another sheet or submit a question during Bidding. All items keyed must be provided/installed.
26. Coordinate mechanical and electrical items in mechanical rooms. Conflicts must be brought to the attention of the architect prior to installation.
27. DO NOT SPLIT SETS; SOME SUB-CONTRACTOR ITEMS ARE SHOWN SOLELY ON ARCHITECTURAL SHEETS. ITEMS NOT SHOWN ON THE SHEET FOR A SPECIFIC SUB-CONTRACTOR DISCIPLINE ARE STILL THE RESPONSIBILITY OF THE SUB-CONTRACTOR.

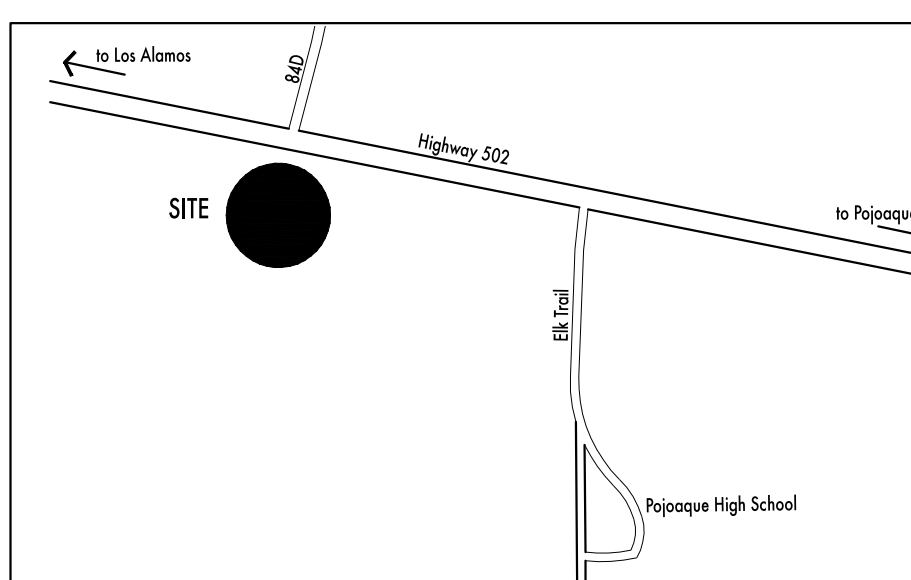
INDEX TO DRAWINGS

Table listing drawing titles and sheet numbers, including Cover Sheet/Code Analysis, Survey, Slope Analysis, Grading and Drainage Plan, On-Site Utility Plan, Stakeout Plans, Details and Construction Notes, etc.

NOTE

The Contractor shall obtain the ED permit and the well permit and shall prepare a SWPP Plan. The Contractor shall submit the ED Permit, well permit and SWPP Plan to County Land Use for review and approval prior to beginning any Work on the project.

VICINITY MAP



PROJECT TEAM

Owner: SANTA FE COUNTY
Contact: Joe Martinez
102 Grant Ave., Santa Fe, NM 87504
phone: 505.992.3014

Architect of Record: RISKIN ASSOCIATES ARCHITECTURE, INC.
Contact: Marci Riskin
227 E. Palace Avenue, Suite C
Santa Fe, NM 87501
phone: 505.983.0722

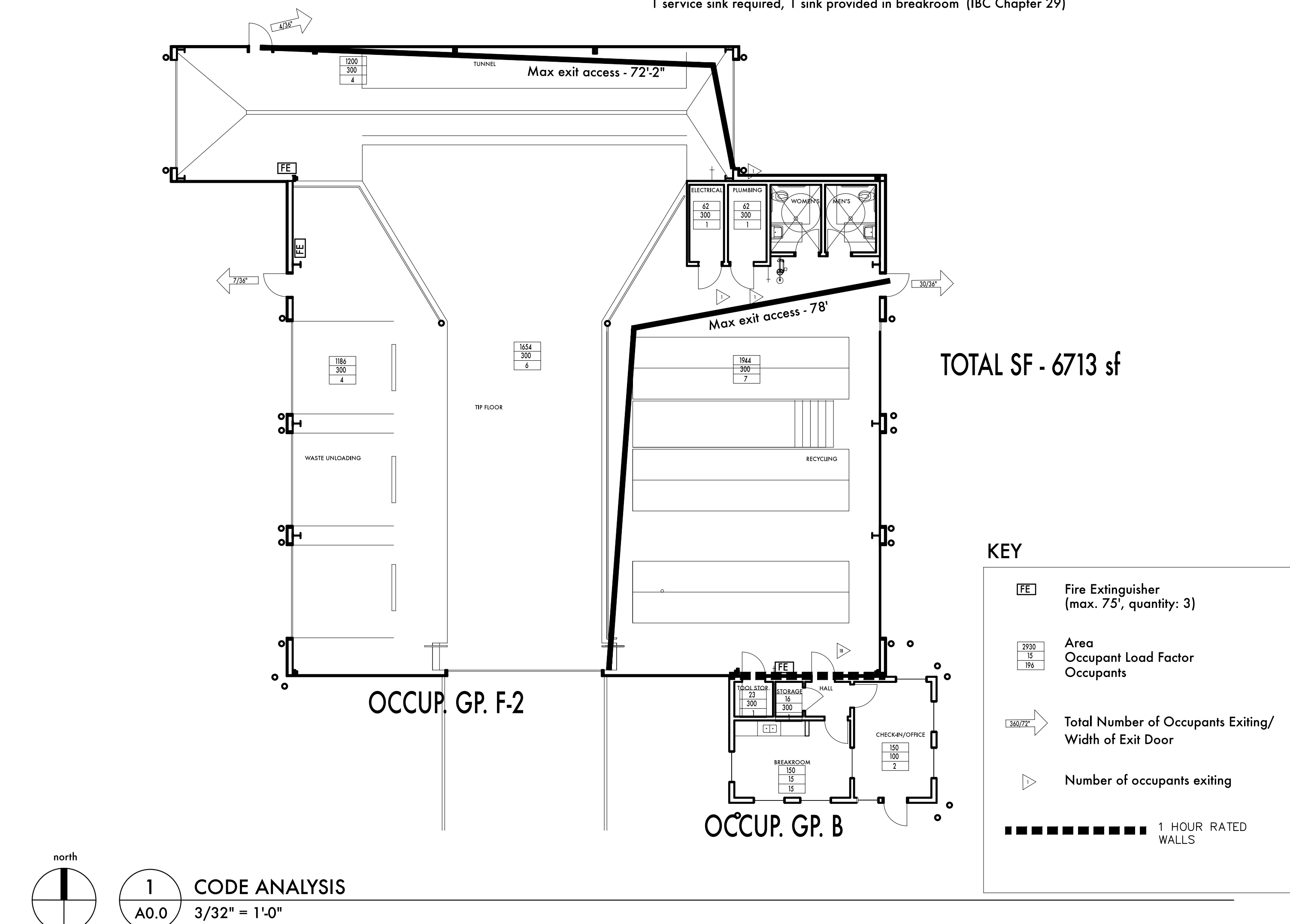
Structural Engineer: LUCHINI TRUJILLO STRUCTURAL ENGINEERS
Contact: Eric Trujillo
1919 5th St., Santa Fe, NM 87505
phone: 505.424.3232

Mechanical/Plumbing/Electrical Engineering: TARLETON ENGINEERING
Contact Mechanical: Larry Feight (505.263.2368)
Contact Plumbing: Scott Haugland (505.264.7053)
Contact Electrical: Chris Harling (505.263.6704)
PO Box 2234
Taos, NM 87571
phone: see above

Civil Engineering: WALKER ENGINEERING (Contact: Morey Walker)
Contact: Morey Walker
905 Camino Sierra Vista
Santa Fe, NM 87501
phone: 505-820-7990 fax: 505-820-3539

ALTERNATES

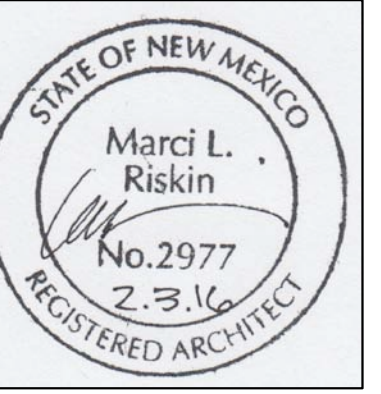
SET NUMBER



North arrow, Code Analysis 1, A0.0, 3/32" = 1'-0"

JACONA COLLECTION CENTER
SANTA FE COUNTY
Santa Fe, New Mexico

Revisions



COVER SHEET
CODE ANALYSIS

RISKIN ASSOCIATES ARCHITECTURE
227 E. Palace Avenue, Suite C
Santa Fe, New Mexico 87501
Tel: 505.983.0722 Fax: 505.983.0722
www.riskinassociates.com

BID SET
2.3.16
A0.0
1 of 49

REFERENCE DOCUMENTS:

PLAT: ENTITLED "PLAT OF SURVEY REQUESTED BY THE JACONA LAND GRANT ASSOCIATION", PREPARED BY PETER LUJAN, NMPS #7220, FILED IN THE OFFICE OF THE SANTA FE COUNTY CLERK IN PLAT BOOK 324, PAGE 010, AS DOCUMENT #930-348, ON JANUARY 15th, 1996.

BOUNDARY NOTES:

1. BASIS OF BEARINGS FOR THIS SURVEY PLAT WAS TAKEN FROM SANTA FE COUNTY CONTROL MONUMENTS SFC-17 (TIE REFERENCED HEREON).
2. ALL EXISTING FENCES HAVE BEEN EXCLUDED FROM THIS DRAWING EXCEPT FOR THE RIGHT OF WAY BARBED WIRE FENCE.

LEASE PARCEL - "The Cooperative Association of the Jacona Grant" and "County of Santa Fe"

A Parcel of land for Lease, lying within the Jacona Grant, projected Section 15, T.19 N., R.8 E., N.M.P.M., Santa Fe County, New Mexico and being more particularly described as follows:

Beginning at a point on the Northwest corner (POB) of the herein described lease parcel, being a No.4 rebar set (NMPS #11597), also being a point located on the westerly Jacona Grant line common to the easterly San Ildefonso Pueblo Grant line from which point a NMDOT right of way brass monument for NM State Road 502, stamped "STA.134+27.75, L.S.#5221", bears N.00deg.09'46"W., a distance of 101.97 feet; thence continuing along said common grant line, N.00deg.09'46"W., a distance of 1148.38 feet to a U.S.G.L.O brass monument, stamped "U.S.G.L.O., T.19N., R.8E., CC S10/S15, 1914";

Thence from said Northwest corner, point of beginning (POB), S.78deg.53'35"E., a distance of 837.87 feet to the Northeast lease parcel corner, being a No. 4 rebar set (NMPS #11597), from which corner a NMDOT right of way brass monument for NM State Road 502, stamped "STA.245+37.30, LS #5221", bears N.79deg.20'48"E., a distance of 269.74 feet, also from said Northeast lease parcel corner a GPS plastic control monument, stamped "Metes and Bounds", bears N.25deg.16'32"E., a distance of 291.74 feet; thence from said Northeast lease parcel corner S.27deg.32'24"E., a distance of 192.93 feet to an angle point on the said lease parcel, also being a No. 4 rebar set (NMPS #11597); thence S.00deg.58'39"W., a distance of 675.38 feet to the Southeast lease parcel corner, being a No.4 rebar set (NMPS #11597), from which corner a Santa Fe County Control monument, SF-17, bears N.82deg.53'44"E., a distance of 4824.71 feet, also from said Southeast lease parcel corner a U.S.G.L.O. brass monument, stamped "U.S.G.L.O., T.19N., R.8E., JG, S14/S23, 1929" bears S.32deg.39'20"E., a distance of 4050.48 feet; thence from said Southeast lease parcel corner S.65deg.42'27"W., a distance of 900.02 feet to the southwest lease parcel corner, being a U.S.G.L.O. brass monument, stamped "U.S.G.L.O., T.19N., R.8E., S1P, 1M/S15, 1914", also being a point on the grant line common to the Jacona Grant and the San Ildefonso Pueblo Grant, from which point another U.S.G.L.O. brass monument stamped "U.S.G.L.O., T.19N., R.8E., S1P, 1/2 M, S15, 1914", bears S.00deg.10'33"E., a distance of 2632.26 feet; thence from said Southwest lease parcel corner N.00deg.09'46"W., along said common grant line, a distance of 1074.96 feet to the Northwest lease parcel corner, being the said point and place of beginning.

Said lease parcel described above contains: 855,186.84 sq.ft. (19,6324 acres) more or less.

AFFIDAVIT:

KNOW ALL MEN, THAT THIS FOREGOING BOUNDARY SURVEY PLAT WAS PREPARED TO ONLY IDENTIFY THE LEASE PARCEL "A", AS SHOWN AND DELINEATED HEREON. THIS BOUNDARY SURVEY PLAT WAS PREPARED WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE DESIRES OF THE UNDERSIGNED OWNER(S), PROPRIETOR(S) & TRUSTEES, THEREOF; THIS BOUNDARY SURVEY PLAT WAS CREATED IN ORDER TO IDENTIFY THE PERIMETER OF LEASE PARCEL "A", PER DIRECTIONS OF THE OWNERSHIP INVOLVED, FOR PURPOSES OF SANTA FE COUNTY LEASING THE PARCEL SHOWN FROM THE COOPERATIVE ASSOCIATION OF THE JACONA GRANT; FOR FUTURE SITE DEVELOPMENT BY SANTA FE COUNTY, THE LEASE PARCEL SHOWN IS LYING AND BEING SITUATE WITHIN PROJECTED SECTION 15, TOWNSHIP 19 NORTH, RANGE 8 EAST, N.M.P.M., WITHIN THE JACONA GRANT, IN THE COUNTY OF SANTA FE, STATE OF NEW MEXICO. THE LEASE PARCEL AS SHOWN HEREON IS NOT AN EXISTING LEGAL PARCEL OF RECORD AND IS NOT HEREBY CREATED AS A SEPARATE LOT OF RECORD. THE SURVEY IS TO BE USED FOR IDENTIFICATION PURPOSES ONLY TO FACILITATE THE LEASE AGREEMENT. INGRESS AND EGRESS FROM NM STATE ROAD 502 WILL BE GRANTED ACROSS LANDS OWNED OR CONTROLLED BY THE COOPERATIVE ASSOCIATION OF THE JACONA GRANT WITHIN THE RECORDED LEASE AGREEMENT TO BE EXECUTED.

James A. Roybal
REPRESENTATIVE OF THE COOPERATIVE ASSOCIATION OF THE JACONA GRANT
6-26-14
DATE APPROVED

[Signature]
REPRESENTATIVE FROM SANTA FE COUNTY
6/25/14
DATE APPROVED

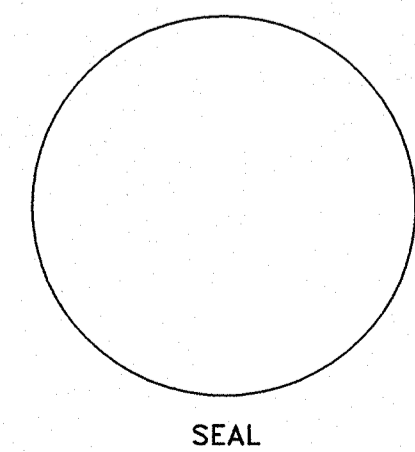
SURVEYOR'S CERTIFICATION

I, BRIAN K. McCLINTOCK, NEW MEXICO PROFESSIONAL SURVEYOR, HEREBY CERTIFY THAT THIS SURVEY PLAT WAS PREPARED FROM AN ACTUAL FIELD SURVEY PERFORMED ON THE GROUND OF A LEASE PARCEL ONLY, ON MAY 28th, 2014, BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY PLAT AND THE FIELD SURVEY UPON WHICH IT IS BASED MEET THE MINIMUM STANDARDS FOR SURVEYING IN THE STATE OF NEW MEXICO, ALSO THIS SURVEY DOES NOT LEGALLY SEPARATE THE LEASE PARCEL INTO A LEGAL LOT OF RECORD, AND IS SHOWN FOR ORIENTATION PURPOSES ONLY.

Brian K. McClintock
BRIAN K. McCLINTOCK N.M.P.S. No. 11597 DATE 5/29/2014



BLUELINE CONSTRUCTION, INC.
(SURVEY DEPARTMENT)
20 REATA ROAD
SANTA FE 216-7909 NEW MEXICO



DOCUMENT No. _____
COUNTY OF SANTA FE } ss
STATE OF NEW MEXICO }
I HEREBY CERTIFY THAT THIS INSTRUMENT WAS FILED FOR RECORD:
ON THE _____ DAY OF _____ A.D.
20____, AT _____ O'CLOCK _____ M. AND
WAS DULY RECORDED IN BOOK _____, PAGE _____ OF THE RECORDS OF THE SANTA FE COUNTY CLERK.
WITNESS MY HAND AND SEAL OF OFFICE COUNTY CLERK, SANTA FE COUNTY, N.M.
_____ DEPUTY

BOUNDARY SURVEY
(SHOWING LEASE PARCEL "A")
PREPARED FOR THE
COUNTY OF SANTA FE
A LEASE PARCEL OF LAND KNOWN AS "LEASE PARCEL A", LOCATED WITHIN PROJECTED SECTION 15, T.19N., R.8E., N.M.P.M., WITHIN THE JACONA GRANT, SANTA FE COUNTY STATE OF NEW MEXICO.

(PURPOSE: TO IDENTIFY A LEASE PARCEL WITHIN THE JACONA GRANT)

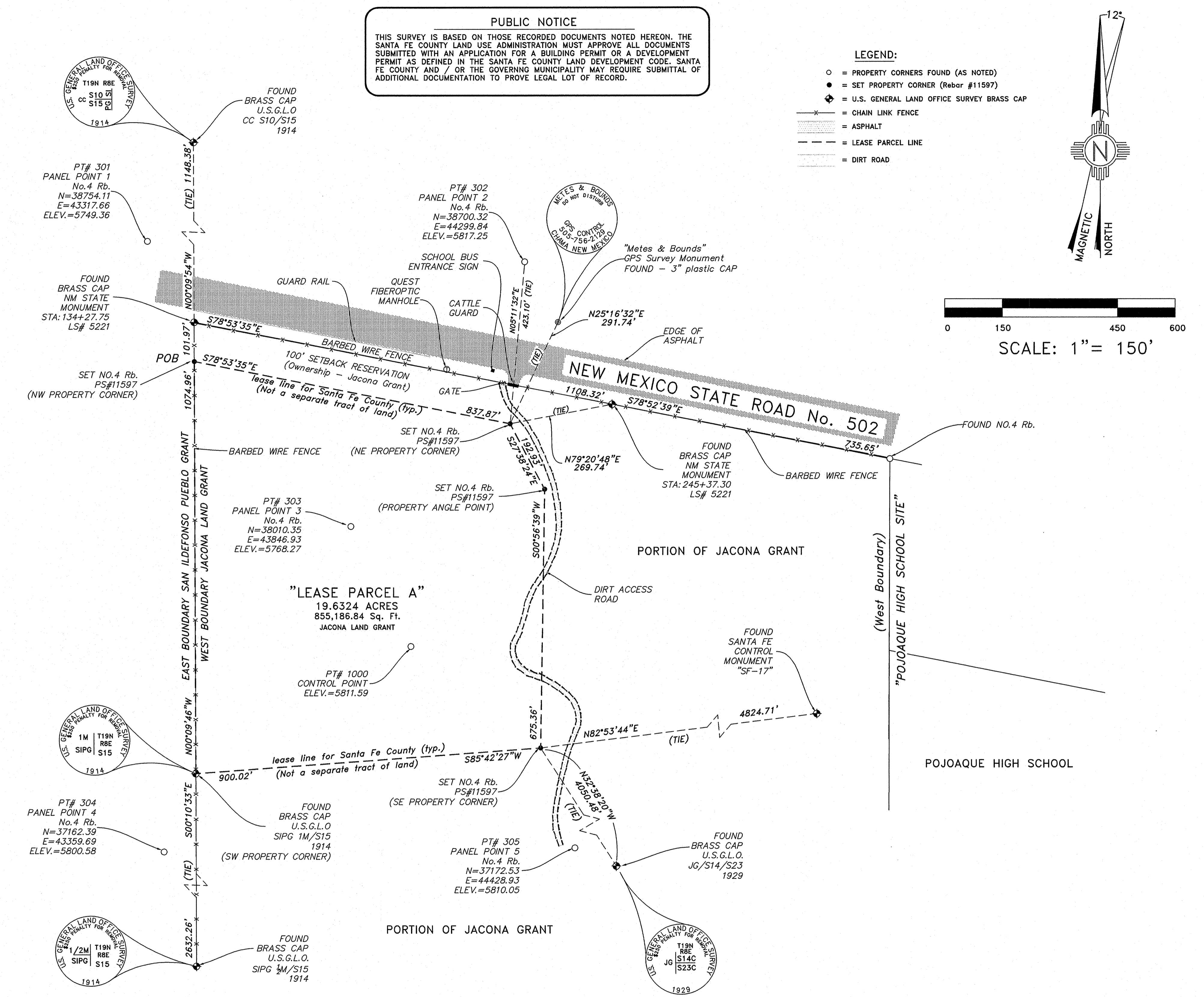
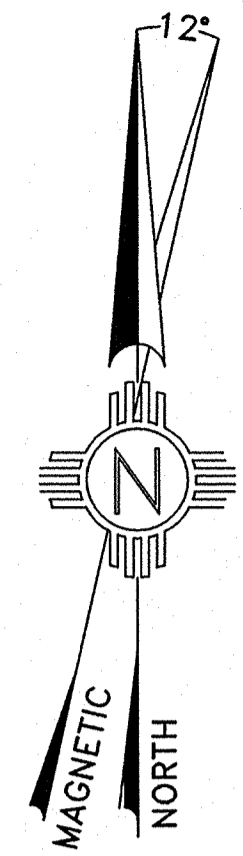
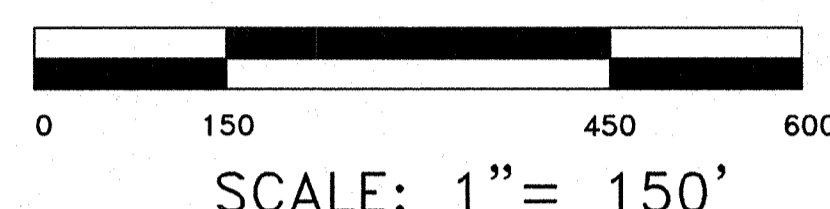
DRAWN BY	E.S.G.
CHECKED BY	B.K.M

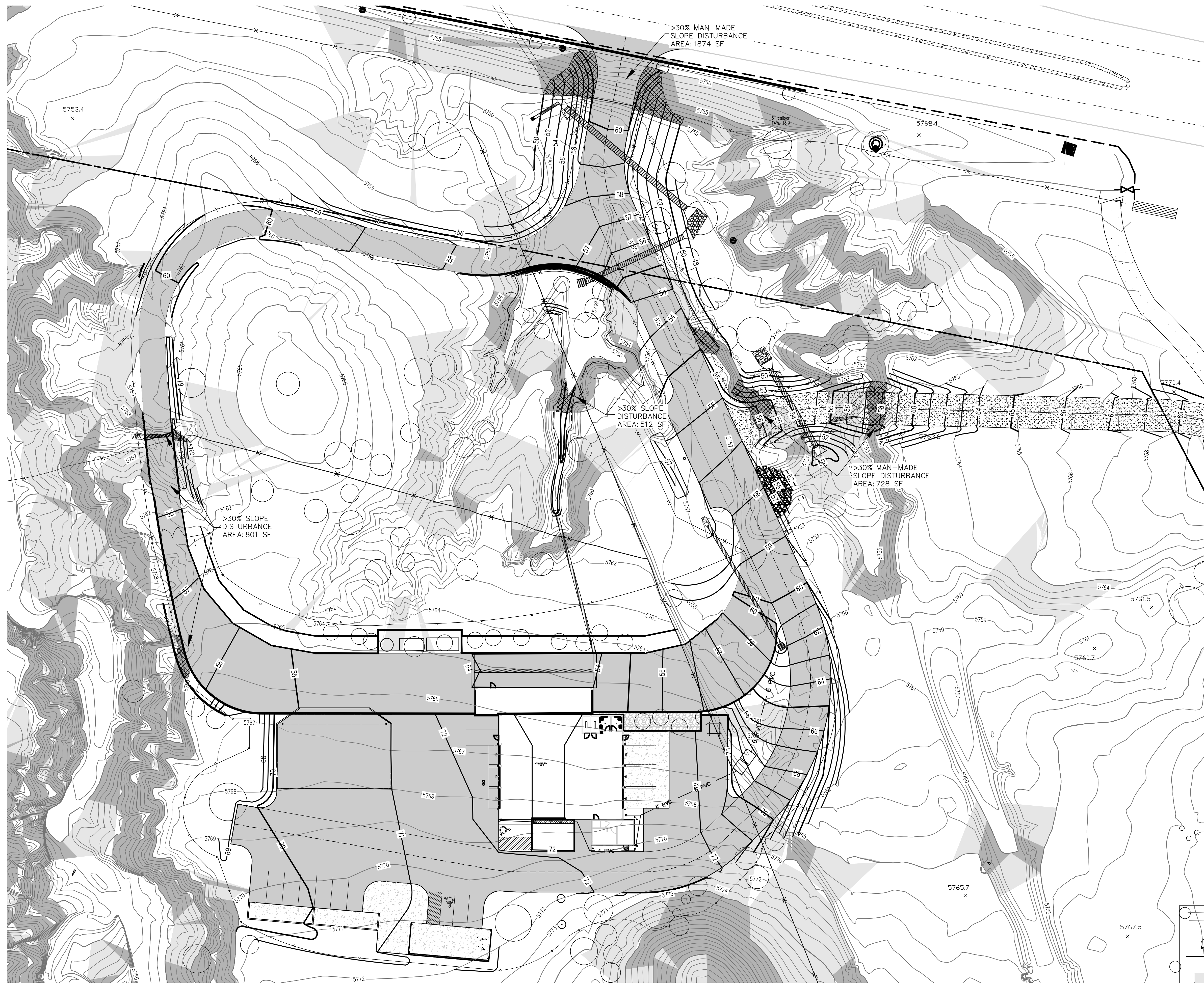
INDEXING INFORMATION FOR COUNTY CLERK				
COUNTY	SECTION	TOWNSHIP	RANGE	SUBDIVISION
SANTA FE	15	19 NORTH	8 EAST	"JACONA GRANT"

COUNTY OF SANTA FE

PUBLIC NOTICE
THIS SURVEY IS BASED ON THOSE RECORDED DOCUMENTS NOTED HEREON. THE SANTA FE COUNTY LAND USE ADMINISTRATION MUST APPROVE ALL DOCUMENTS SUBMITTED WITH AN APPLICATION FOR A BUILDING PERMIT OR A DEVELOPMENT PERMIT AS DEFINED IN THE SANTA FE COUNTY LAND DEVELOPMENT CODE. SANTA FE COUNTY AND / OR THE GOVERNING MUNICIPALITY MAY REQUIRE SUBMITTAL OF ADDITIONAL DOCUMENTATION TO PROVE LEGAL LOT OF RECORD.

- LEGEND:**
- = PROPERTY CORNERS FOUND (AS NOTED)
 - = SET PROPERTY CORNER (Rebar #11597)
 - ⊕ = U.S. GENERAL LAND OFFICE SURVEY BRASS CAP
 - x— = CHAIN LINK FENCE
 - ▨ = ASPHALT
 - - - = LEASE PARCEL LINE
 - — — = DIRT ROAD

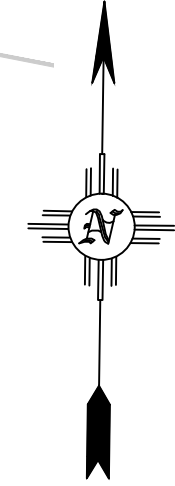




RECORD DRAWINGS

THIS RECORD DOCUMENT HAS BEEN PREPARED BASED ON THE BEST AVAILABLE INFORMATION AS PROVIDED BY OTHERS. WALKER ENGINEERING CERTIFIES THAT THE INFORMATION SHOWN IS A REASONABLE DOCUMENTATION OF THE FINAL CONSTRUCTION.

MOREY E. WALKER, P.E. 12105 DATE



SCALE: 1" = 30'
 30' 0 30'
 CONTOUR INTERVAL = ONE FOOT (1')

SLOPE DISTURBANCE

>30% MAN-MADE SLOPE DISTURBANCE:
 1ST DISTURBANCE: 1874 SF
 DISTURBANCE ON NATURAL >30% SLOPES:
 1ST DISTURBANCE: 512 SF
 2ND DISTURBANCE: 801 SF
 3RD DISTURBANCE: 728 SF
 TOTAL DISTURBANCE: 2,041 SF

UTILITY NOTE

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THE DRAWING, THEY ARE SHOWN IN APPROXIMATE MANNER ONLY. UTILITY LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OR PIPELINE COMPANY, THE OWNER, OR BY OTHERS. THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING ABOVE AND UNDERGROUND UTILITIES, OR EXISTING PIPELINES. THE ENGINEER MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM HIMSELF OF THE LOCATION OF ANY EXISTING ABOVE AND UNDERGROUND UTILITIES, AND EXISTING PIPELINES, IN AND NEAR THE AREA OF THE WORK, IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY HIS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING ABOVE AND UNDERGROUND UTILITIES, AND EXISTING PIPELINES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES PERTAINING TO THE LOCATION OF THESE LINES IN PLANNING AND CONDUCTING EXCAVATION WORK.

TOPOGRAPHY NOTE

ALL EXISTING TOPOGRAPHIC SURVEY DATA SHOWN ON THESE PLANS HAS BEEN OBTAINED AND CERTIFIED BY OTHERS. WALKER ENGINEERING HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS TOPOGRAPHY INFORMATION, AND MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR OF THIS TOPOGRAPHY. WALKER ENGINEERING RESPONSIBILITY IS LIMITED TO THE ENGINEERING ANALYSIS THAT UTILIZES THE TOPOGRAPHY SURVEY.

LEGEND

	EXISTING CONTOURS
	DESIGN CONTOURS
	SITE LEASE BOUNDARY
	15% - 30% SLOPES
	30% & GREATER SLOPES
	SLOPE DISTURBANCE

Civil Engineering • Water Resources • Traffic Engineering
W. E. Walker Engineering
 905 Camino Sierra Vista, • Santa Fe, NM 87505
 505-820-7990
 FAX 505-820-3639
 E-MAIL: civil@walkerengineering.net

No.	REVISION	BY	APP.	DATE

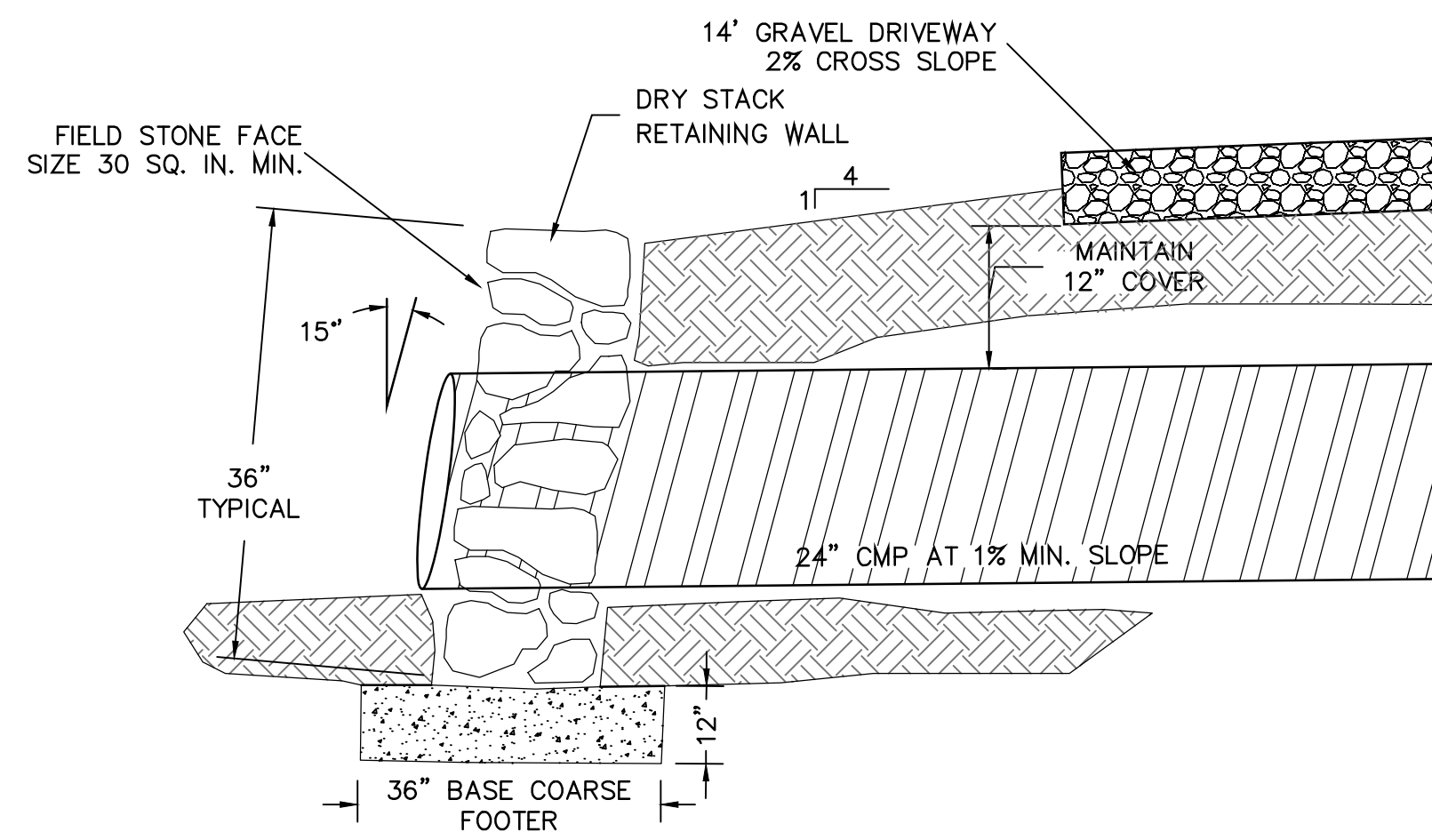
PROJECT: 15-121 DESIGNED BY: P.L.B.
 FILE: 121 GRADE DRAWN BY: P.L.B.
 DATE: 09/14/15 CHECKED BY: M.E.W.
 SCALE: AS NOTED



PROJECT: **JACONA TRANSFER STATION**
 SHEET TITLE: **SLOPE ANALYSIS**

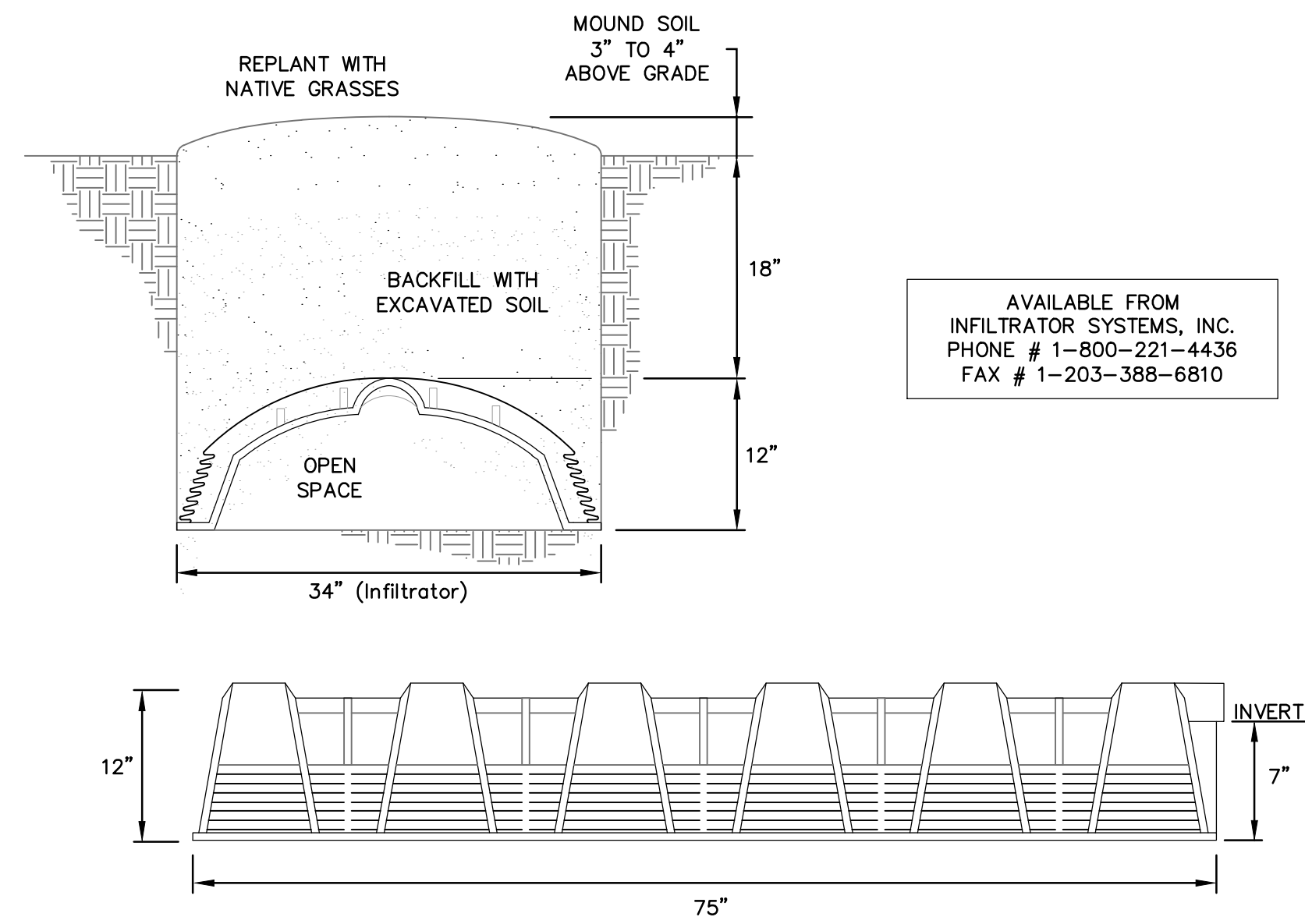
COUNTY REVIEW	SIGN-OFF	DATE
DEPARTMENT: LAND USE PLANNER		
PUBLIC WORKS DIRECTOR		
S.F. WATER COMPANY		

SHEET NO. **C-1**
 COUNTY USE ONLY



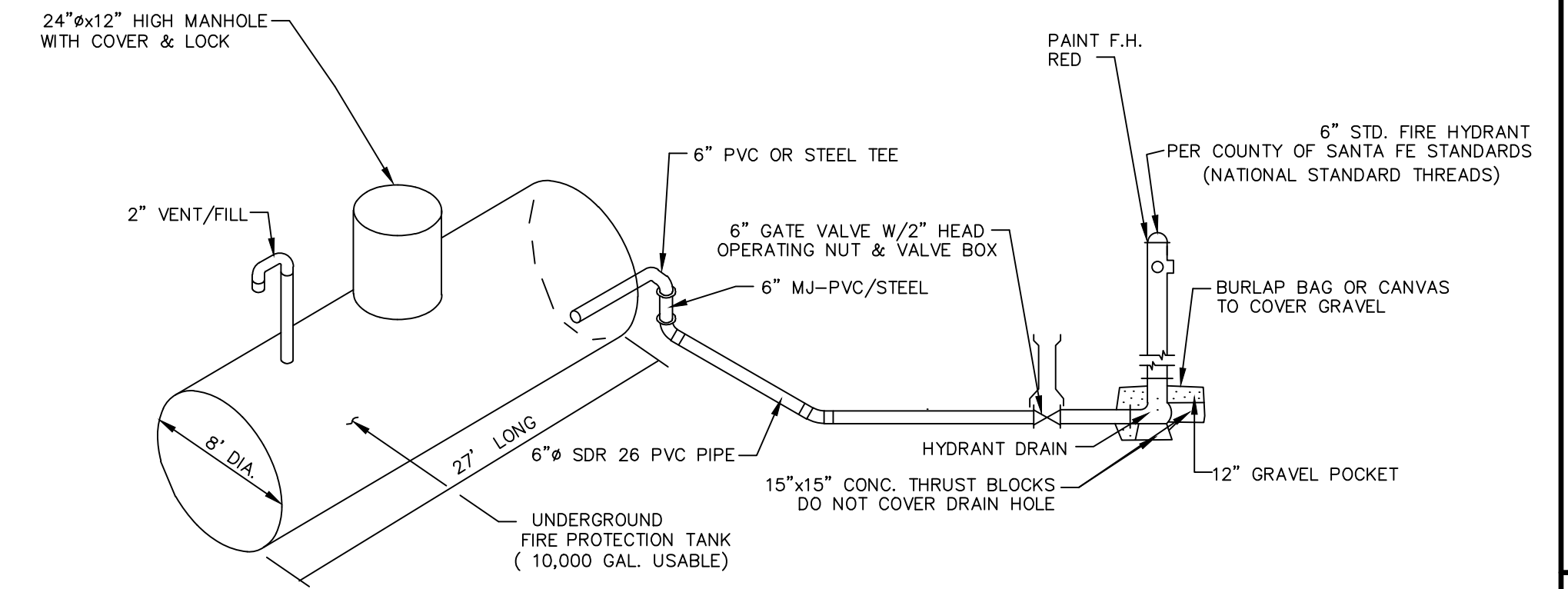
CULVERT HEADWALL DETAIL

N.T.S.



INFILTRATORS

N.T.S.

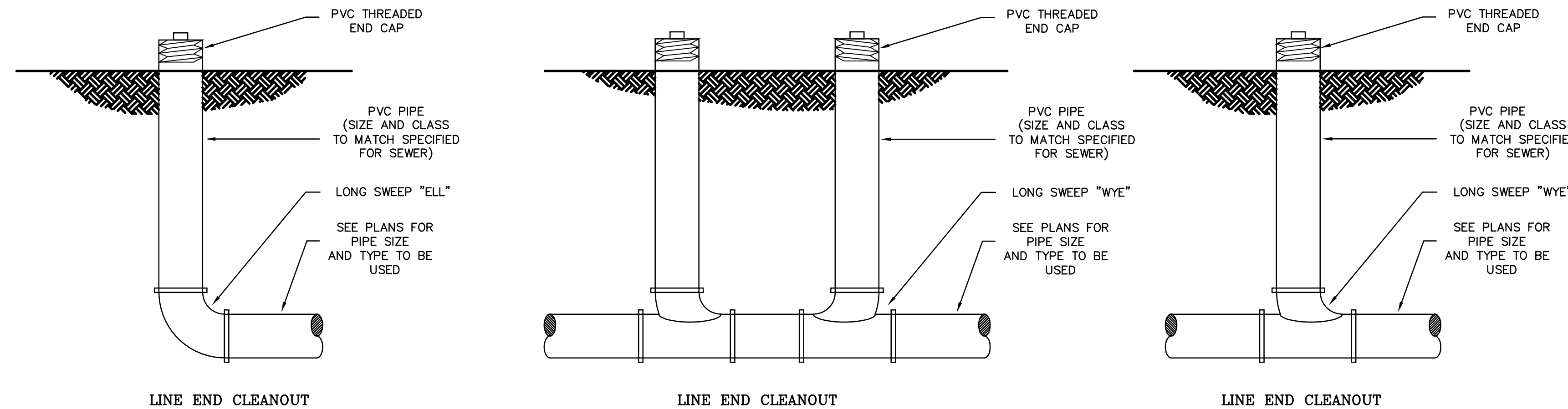


FIRE PROTECTION STORAGE TANK AND DRAFT DISCHARGE FIRE HYDRANT

NO SCALE

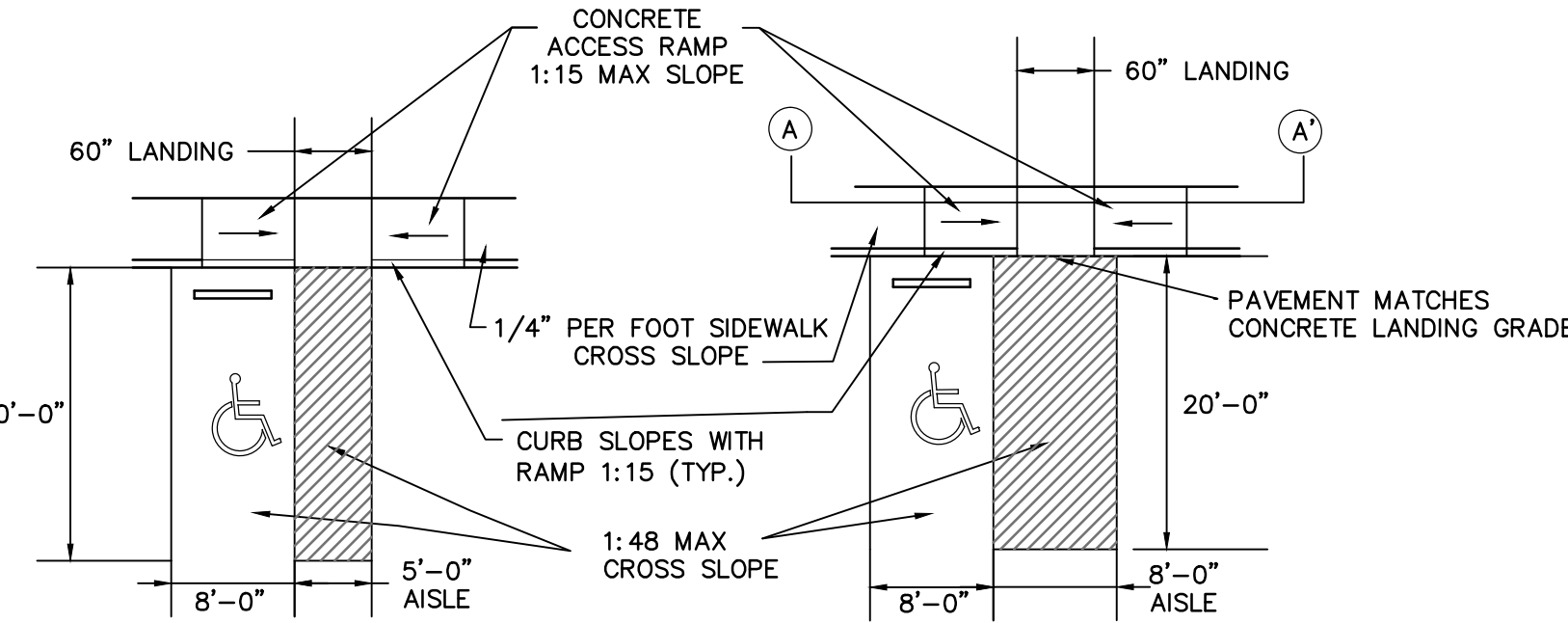
GENERAL CONSTRUCTION NOTES

- STREET CONSTRUCTION WORK SHALL CONFORM WITH THE NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGE CONSTRUCTION, 1994 EDITION. UTILITY CONSTRUCTION SHALL CONFORM TO THE AMERICAN PUBLIC WORKS ASSOCIATION, PUBLIC WORKS CONSTRUCTION MANUAL, 1979 EDITION. ALL CONSTRUCTION SHALL CONFORM WITH COUNTY STANDARDS AND SPECIFICATIONS AS APPLICABLE.
- THE CONTRACTOR SHALL NOT COMMENCE CONSTRUCTION WITHOUT CONSTRUCTION PLAN APPROVAL BY THE COUNTY ENGINEER. A COPY OF THE APPROVED PLANS SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS.
- THE CONTRACTOR SHALL NOTIFY THE OFFICE OF THE COUNTY ENGINEER OF THE PROPOSED COMMENCEMENT OF CONSTRUCTION AT LEAST 24 HOURS PRIOR TO THE START UP. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION.
- THE COUNTY'S ENGINEER SHALL SUBMIT TO THE COUNTY SUBDIVISION ENGINEER THE APPROPRIATE WORKING DRAWINGS AND DESIGN CRITERIA USED TO JUSTIFY ANY CHANGES IN THE CONSTRUCTION WORK RESULTING FROM SPECIAL FIELD CONDITIONS. ALL CHANGE ORDERS SHALL BE INITIATED BY THE PROJECT DESIGN ENGINEER WITH FINAL DESIGN DRAWINGS STAMPED BY A NEW MEXICO PROFESSIONAL ENGINEER AND RECEIVE COUNTY APPROVAL PRIOR TO IMPLEMENTING CHANGE ORDER CONSTRUCTION.
- THE OWNER SHALL BE RESPONSIBLE THROUGH HIS ENGINEER FOR MAKING ALL ENGINEERING PLAN CHANGES AND REVISIONS TO THE ORIGINAL APPROVED ENGINEERING DRAWINGS. FINAL "AS-BUILT" DRAWINGS SHALL BE FILED IN THE OFFICE OF THE PUBLIC WORKS DEPARTMENT BEFORE COUNTY PROJECT ACCEPTANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES AND SHOULD NOT RELY SOLELY ON THESE CONSTRUCTION PLANS FOR UTILITY LOCATIONS. NOTIFICATION TO THE UTILITY COMPANIES IS REQUIRED PRIOR TO COMMENCING WORK. CALL "NEW MEXICO ONE CALL" 1-800-321-2537, 48 HOURS PRIOR TO DIGGING.
- THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE CONSTRUCTION LIMITS OF THE PROJECT AND IN NO WAY SHALL ENCROACHMENT OCCUR ONTO ADJACENT PROPERTIES UNLESS LEGAL EASEMENTS ARE OBTAINED. ALL FILL AND CUT SLOPES SHALL BE SETBACK FROM THE PROPERTY LINE IN ACCORDANCE WITH CHAPTER 70 OF THE UNIFORM BUILDING CODE. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY AGREEMENTS NECESSARY OR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES.
- THE COUNTY/CONTRACTOR SHALL MAINTAIN THE PROPER TRAFFIC CONTROL DEVICES IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND AS APPROVED BY THE COUNTY ENGINEER.
- ASTM OR AASHTO CERTIFICATES OF MATERIAL COMPLIANCE ARE TO BE SUBMITTED TO THE COUNTY ENGINEER.
- THE CONTRACTOR SHALL IMPLEMENT THE NECESSARY SITE EROSION CONTROL MEASURES FOR INHIBITING DUST WIND AND AIR SEDIMENT MOVEMENT OFFSITE DURING ALL PHASES OR STAGES OF CONSTRUCTION. SEE SECTION 211 OF THE NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- SUBGRADE, BASE MATERIAL, ASPHALT TREATED BASE AND ASPHALT SURFACE COURSE REQUIRE COMPACTION TESTS FOR EACH 100 LINEAR FEET.
- THE CONTRACTOR SHALL PROVIDE AN AREA TO STORE CONSTRUCTION DEBRIS WHERE IT WILL NOT BE A NUISANCE TO THE SURROUNDING NEIGHBORHOOD. ALL DEBRIS SHALL BE CONTAINED IN SUCH A MANNER THAT WILL PREVENT SCATTERING. ALL DEBRIS, INCLUDING TREES AND COUNTY UNDERGROWTH SHALL BE DISPOSED OF PROPERLY WITHIN THE LANDFILL. ALL DEBRIS SHALL BE REMOVED FROM THE SITE PRIOR TO FINAL SITE INSPECTION.
- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH, AT 28 DAYS OF 3,000 PSI. MAXIMUM AGGREGATE SIZE SHALL BE 3/4 INCH. AIR ENTRAINMENT, IN THE CONCRETE, SHALL BE BETWEEN 4 AND 7 PERCENT.
- THREE CONCRETE CYLINDER SAMPLES ARE TO BE TAKEN FOR EACH 500 LINEAR FEET OR 50 CUBIC YARDS INSTALLED OR A MINIMUM OF ONE SAMPLE PER DAY WHICH EVER IS GREATER. CONCRETE CYLINDERS ARE TO BE TESTED AT 7, 28, AND 45 DAYS (IF NEEDED) INTERVALS WITH TEST RESULTS SUBMITTED DIRECTLY TO THE SUBDIVISION INSPECTOR.
- A MINIMUM OF 12 INCHES OF SEPARATION MUST BE MAINTAINED BETWEEN UTILITY LINES.
- ALL UTILITY APPURTENANCES SUCH AS TELEPHONE PEDESTALS, ELECTRICAL TRANSFORMERS, GAS AND CABLE TV APPURTENANCES SHALL BE PLACED OUTSIDE THE PUBLIC RIGHT-OF-WAY AND WITHIN THE UTILITY EASEMENTS. THE COUNTY WILL BE RESPONSIBLE FOR RELOCATING MISPLACED UTILITY STRUCTURES PRIOR TO PROJECT ACCEPTANCE. WATER VALVES AND METER BOXES ARE NOT TO BE PLACED WITHIN MAINTENANCE AREAS OF GRAVEL ROADS.
- WALKER ENGINEERING WAIVES ANY AND ALL RESPONSIBILITY AND IS NOT LIABLE FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW WALKER ENGINEERING'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS.
- THE CONTRACTOR SHALL CONTACT THE COUNTY'S ENGINEER TO VERIFY THE DENSITY TESTS RESULTS PRIOR TO COMMENCING INSTALLATION OF THE PAVEMENT STRUCTURAL SECTION TRENCH DENSITY COMPACTION TESTS ARE REQUIRED FOR EACH 100 LINEAR FEET OF MAINLINE. ALL LATERALS, MANHOLES, INLETS AND ALL STRUCTURES THAT REQUIRE COMPACTED FOUNDATIONS OR CONTROLLED BACKFILL. ALL TEST RESULTS FROM THE LABORATORY ARE TO BE SENT DIRECTLY TO THE COUNTY ENGINEER.
- THE CONSTRUCTION SURVEYOR SHALL VERIFY PROPOSED GRADES AND INVERT ELEVATIONS, FLOW LINES, ALIGNMENTS, SETBACKS AND TOPOGRAPHY PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL HOLD PRE-CONSTRUCTION MEETINGS WITH ALL APPROPRIATE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.



TYPICAL CLEANOUT DETAIL

NOT TO SCALE

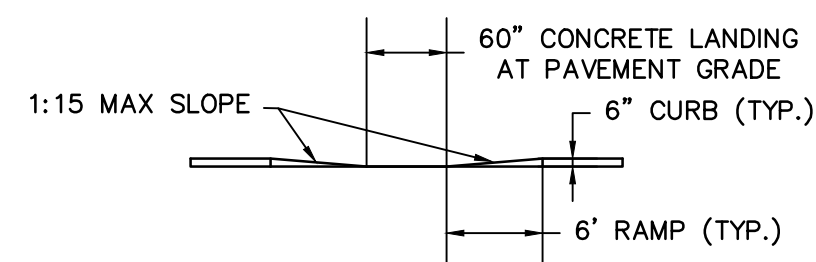


STANDARD HANDICAP PARKING

NOT TO SCALE

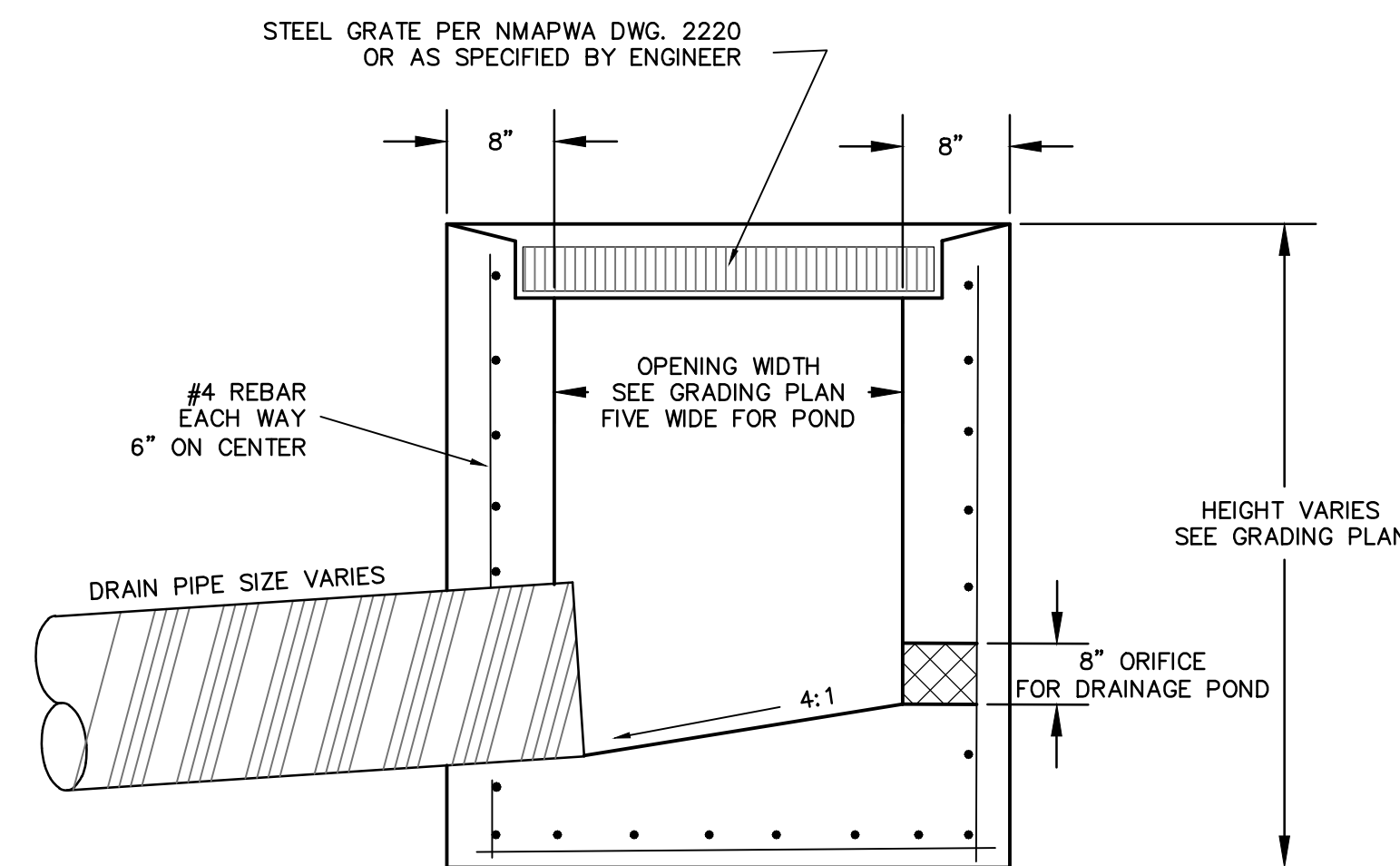
VAN ACCESSIBLE HANDICAP PARKING

NOT TO SCALE



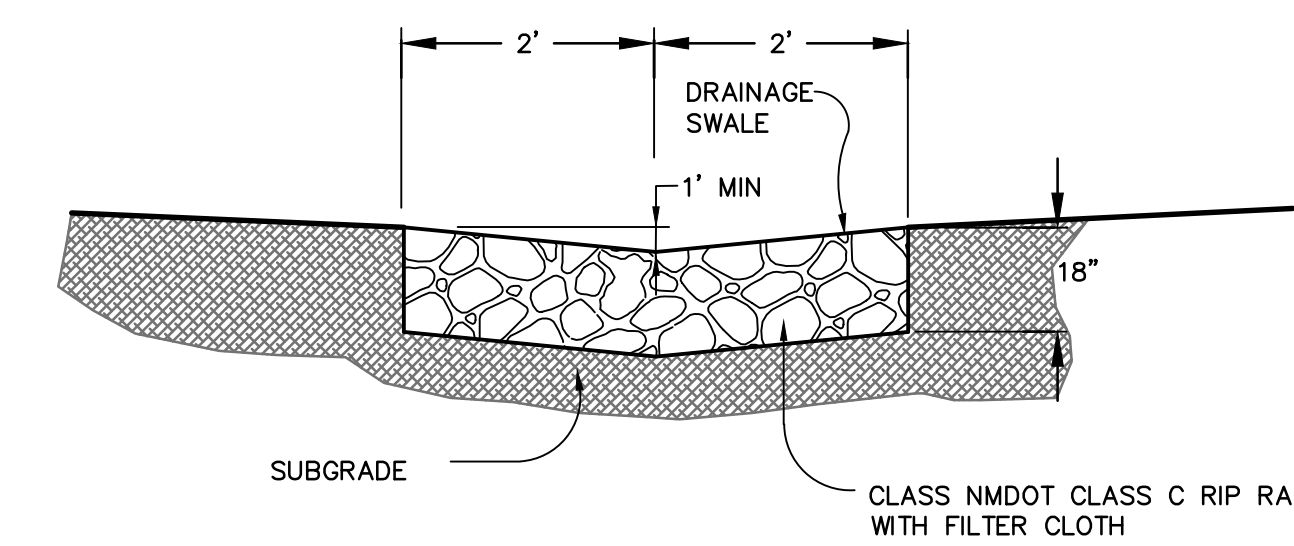
HANDICAP RAMP SECTION A-A'

NOT TO SCALE



CATCH BASIN

NMAPWA TYPE "D" N.T.S. DWG.2206



RIP RAP CHANNEL

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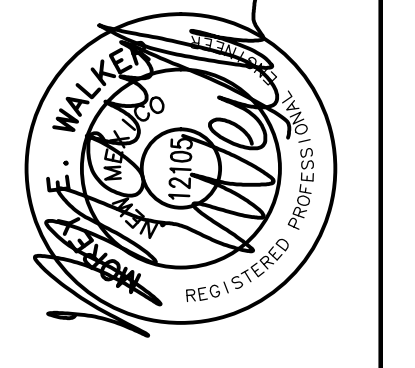
W.E Walker Engineering

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No.	REVISION	BY	APP.	DATE

DESIGNED BY: P.L.B.
DRAWN BY: P.L.B.
CHECKED BY: M.E.W.
DATE: 09/14/15
SCALE: AS NOTED



PROJECT: **JACONA COLLECTION STATION**

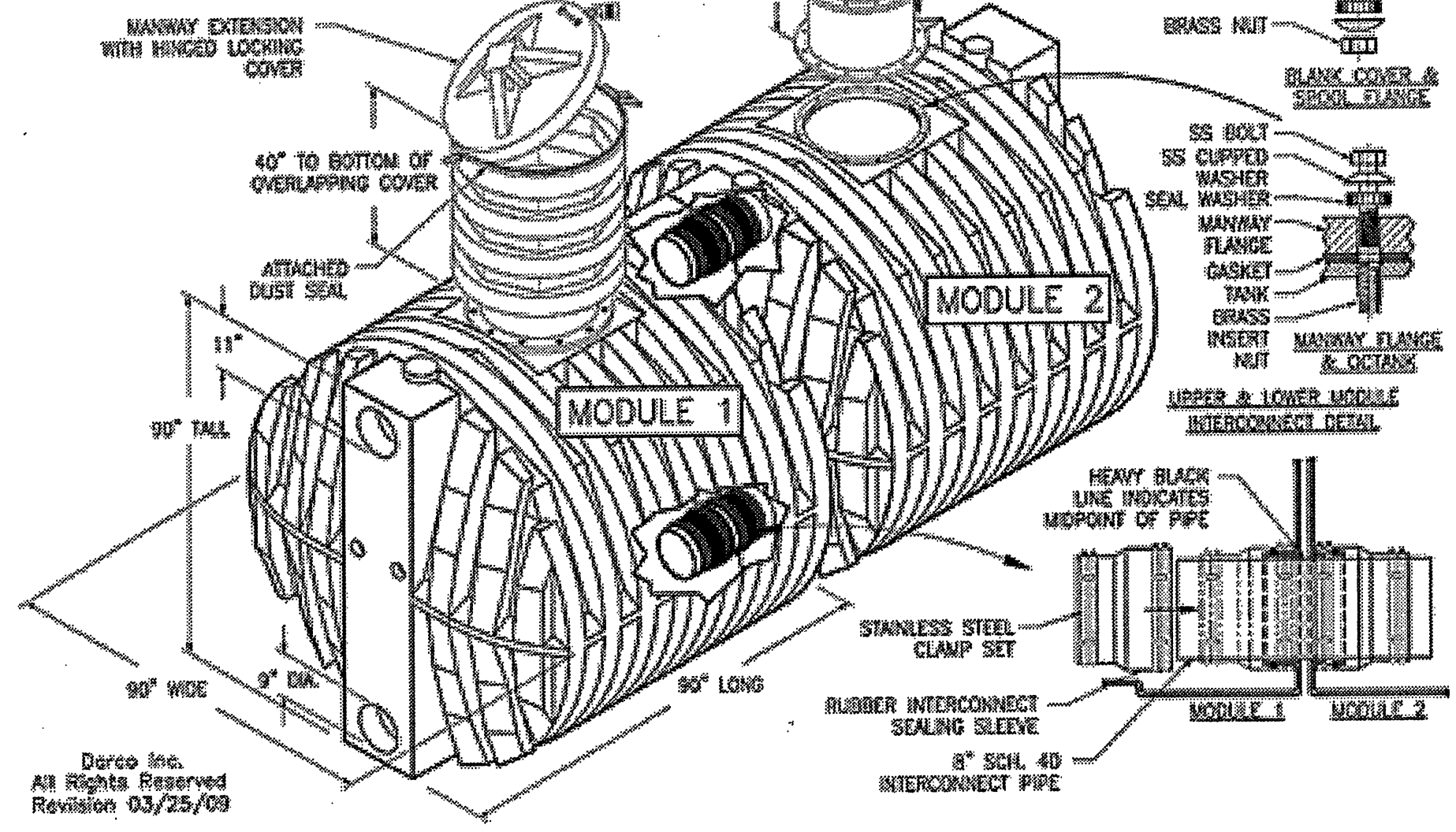
SHEET TITLE: **DETAILS AND CONSTRUCTION NOTES**

COUNTY REVIEW	DATE
SIGN-OFF	
DEPARTMENT	
LAND USE PLANNER	
PUBLIC WORKS DIRECTOR	
S.F. WATER COMPANY	

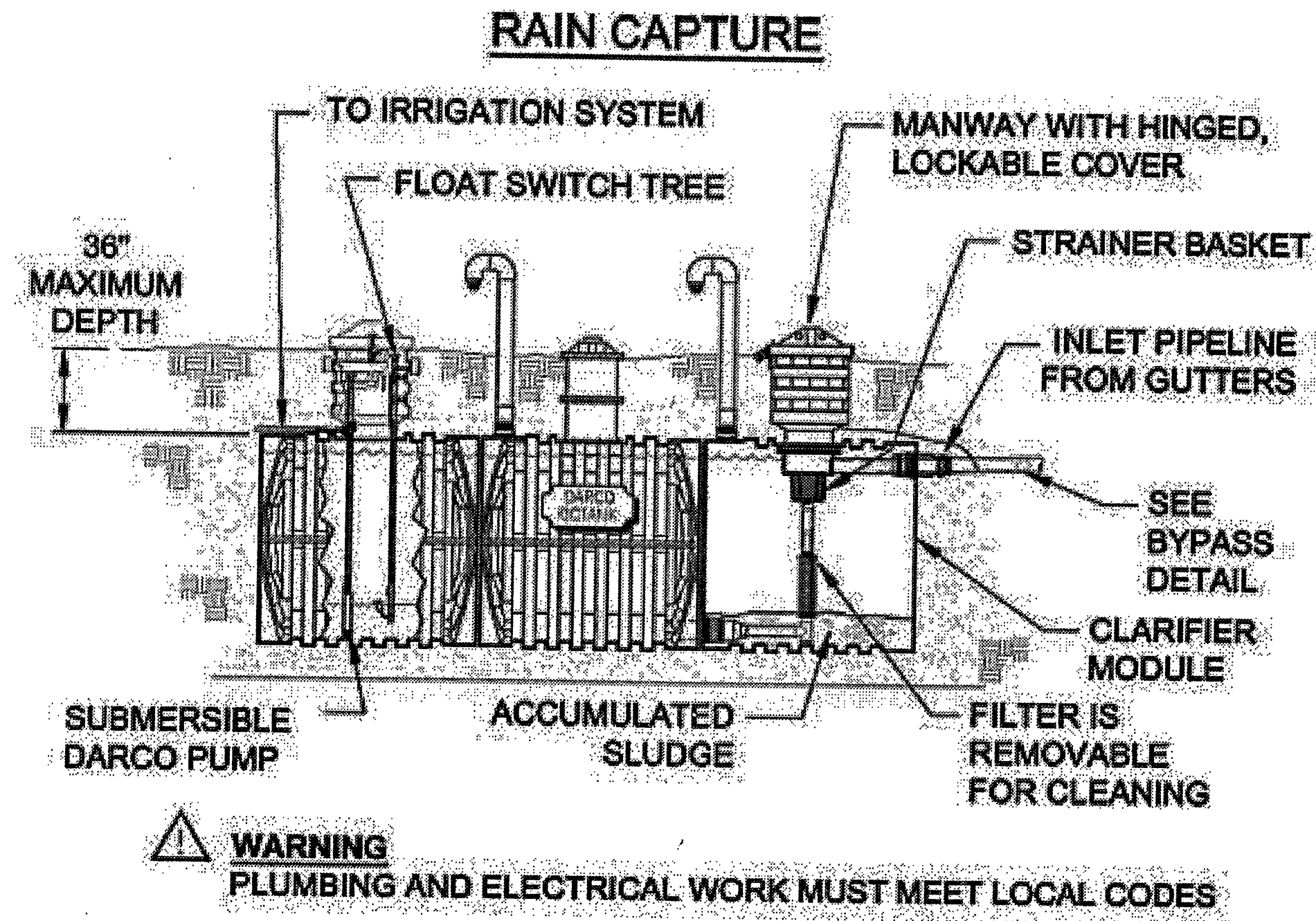
COUNTY USE ONLY

NOTES:

1. MODULES MAY BE FITTED WITH A MANWAY EXTENSION, OR A SPOOL, EXTENSION WITH A BLANK COVER.
2. TANK TO EXTENSION CONNECTION INCORPORATES A FOAM RUBBER GASKET AND 12 STAINLESS STEEL BOLTS.
3. HINGED MANWAY COVER IS SUPPLIED WITH A DUST SEAL AND LOCKING HASP ASSEMBLY.



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Revision 03/25/09



WARNING
PLUMBING AND ELECTRICAL WORK MUST MEET LOCAL CODES

NOT TO SCALE, FOR ILLUSTRATION ONLY

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STANDARD STABLE SOIL SITE REQUIREMENTS

1. Soil bearing must be at least 2000 lbs. / sq. ft. (consult geotechnical engineer).
2. Soil cohesion or backslope angle must be adequate for side wall stability.
3. Follow OSHA 1926.650/P safety guidelines for trenching and tank hole excavation.
4. If site is subject to seasonal or unpredictable ground water, do consider:
 - Using deadman anchors to avoid possible floatation.
 - Burying the tank above probable groundwater with mounded soil cover.
 - Installing a tank bed underdrain ground water collection and discharge pipelines.

BEDDING AND BACKFILL MATERIAL REQUIREMENTS

1. Backfill medium must totally surround and cover every module completely.
2. Use only dry, clean, washed and graded material.
3. No individual particles should be over 1/2 inch screen size.
4. Material must be free of trash, ice, snow, and powdered soil fines.
5. The following are examples of common approved materials:
 - Coarse sand or squeegee
 - Pea gravel or B-B gravel
 - Crushed and screened rock chips
6. Do not use generic structural fill, road base, or crusher fines as backfill.

BURY DEPTH OPTIONS

1. Above ground in a constructed "sand box" for support.
Fabricate cover or roof over sand box to reduce direct sunlight exposure.
2. Partial burial to spring line or deeper for proper support of the tank belly.
Mound soil cover to depth necessary for frost protection.
3. Full bury below grade with maximum cover depth of 36 inches.
Insulate with underground rated foam board for frost protection.

HOLE SIZE RECOMMENDATIONS

WARNING: Review OSHA 1926.650/P EXCAVATIONS

1. Allow a minimum of 18 inches between tanks and the excavation walls.
2. Tank rows in manifolded assemblies should be spaced 18 inches apart.
3. Bedding depth underneath modules must be at least 6 inches deep.

FULL BURY INSTALLATION PROCEDURE

1. Always follow the Darco Installation Manual and call if you have questions.
2. Excavate to the appropriate hole size and depth and bed properly.
3. Position and assemble the modules in the prepared excavation.
4. Add 10% water ballast if water is available. *Burial may be done dry (without water).*
5. Backfill in 12 inch deep lifts working evenly around the tank.
6. Hand probe under and around each module as illustrated.
7. Backfill until sand completely covers all modules and rake smooth.
8. Apply geotextile fabric or approved underground foam board insulation.
9. Cover and mound soil to 36 inch maximum bury depth.
10. Fill tank with water immediately after installation to avoid floatation.
11. Chain or bolt the manway at all times to discourage children and vandals.
12. Disinfect potable water systems as directed by your local Health Department.
13. Review the following illustration depicting the probing process.
 - Probe tool is a 3/4 inch metal pipe about 4 feet long with tee handle and flattened tip for easy penetration deep into the sand backfill.
 - No voids or air pockets may exist under the tank for proper support.
 - Probe thoroughly from 4 o'clock around to 8 o'clock along both sides.
 - Probe deeply, but avoid violent tamping which may disturb the tank.

OPTIONAL DEADMAN ANCHORS

- OcTanks are not approved for use in sites known to be subject to high ground water, extreme run off, or riparian flooding conditions. Anchoring is insurance against occasional wet years or unusual temporary conditions when ground water may be elevated for a short period of time.
1. Pour 12 inch diameter reinforced concrete anchors in advance for proper cure.
 2. Use only approved hardware as specified in your OcTank Installation Manual.
 3. Locate anchor cables at the proper tank locations.
 4. Soil cover must be 36 inch deep and extend at least 3 feet beyond tank sides.
 5. Deadmen may be eliminated if a bed drain can be used to discharge any water accumulation.

TRAFFIC SLABS

- Install OcTanks under a slab floor or driveway only when there is no other suitable site or option available for the water storage system. Follow our OcTank Installation Manual carefully and call if you have questions or concerns.
1. Bury depth below the 8 inch slab must be approximately 28 inches.
 2. Select backfill (sand preferred) must be used exclusively between tank and slab.
No native soil may be used between the tank bed and the traffic slab.
 3. Backfill must be compacted in 12 inch lifts using a vibrating plate machine.
Do not use a jumping jack style high impact compactor around OcTanks.
 4. If insulation is necessary, use 25 psi rated polystyrene extruded foam board positioned just above the tank, as illustrated.

VENTING, WEEP TUBES, AND OVERFLOWS

- All OcTank systems must be adequately vented to the atmosphere to avoid potentially destructive internal vacuum or pressure conditions.
1. Vent size must match or exceed the system's maximum pipeline diameter.
 2. A few inches of air space must be maintained at the top of every module.
 3. Overflow piping or a weep tube must discharge any excess water.

"BOLT-IN" STYLE FIELD INSTALLED FITTINGS

- Molded polypropylene or stainless steel bolt-in style fittings are well suited to OcTank applications.
1. Fittings are available in 2 and 3 inch pipe sizes with female pipe threads.
 2. "Bolt-ins" come with stainless steel hardware and EPDM rubber gaskets.

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No.	REVISION	BY	APP.	DATE

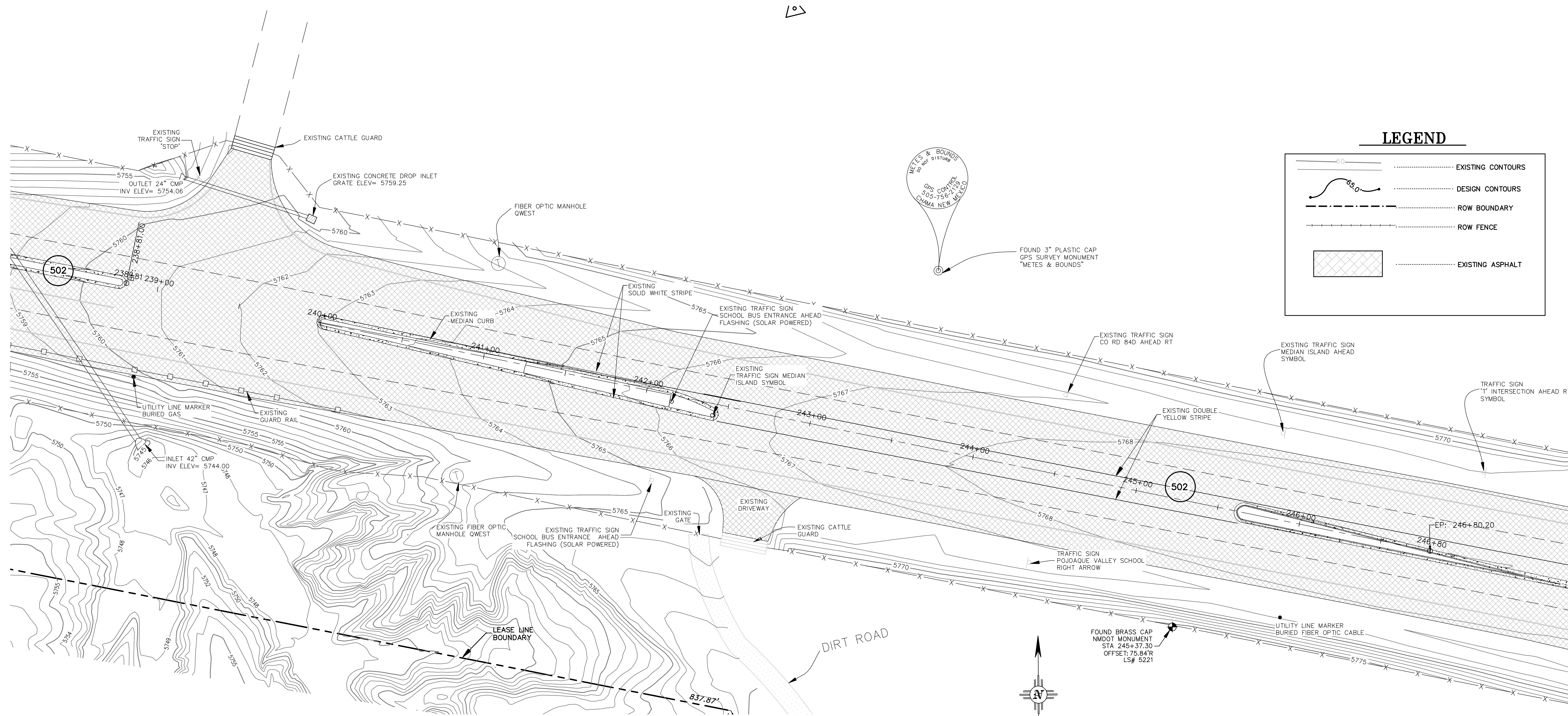
DESIGNED BY: P.L.E.
DRAWN BY: P.L.E.
CHECKED BY: M.E.F.
DATE: AS NOTED

PROJECT: JACON A TRANSFER STATION
SHEET TITLE: DARCO TANK DETAILS

COUNTY REVIEW	SIGN-OFF	DATE
DEPARTMENT		
SF COUNTY WATER RESOURCES DEPT.		
SF COUNTY FIRE DEPARTMENT		

COUNTY USE ONLY

SHEET NO. **6-6**
8 of 49



LEGEND

	EXISTING CONTOURS
	DESIGN CONTOURS
	ROW BOUNDARY
	ROW FENCE
	EXISTING ASPHALT

EXISTING CONDITIONS

UTILITY NOTE

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TOPOGRAPHY NOTE

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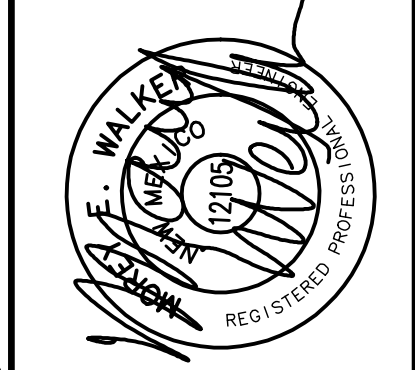
W.E Walker Engineering

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 505-820-8639
 E-MAIL: civil@walkerengineering.net

No.	REVISION	BY	APP.	DATE

PROJECT: 15-121 DESIGNED BY: P.L.B.
 FILE: 121 GRADE DRAWN BY: P.L.B.
 DATE: 09/14/15 CHECKED BY: M.E.W.
 SCALE: AS NOTED



PROJECT: JACONA

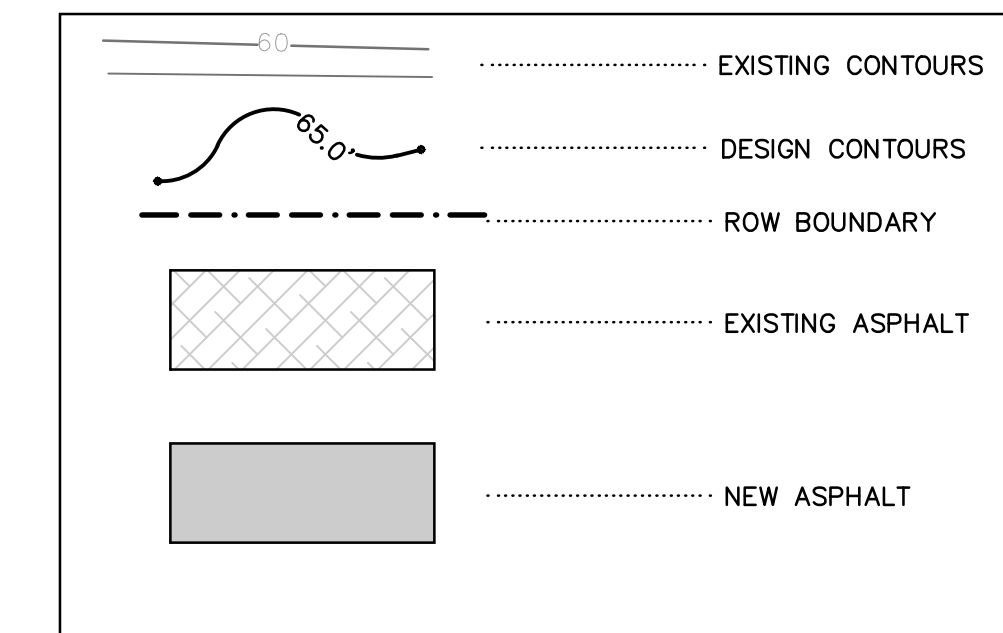
TRANSFER STATION

SHEET TITLE: NM 502
 EXISTING CONDITIONS

COUNTY REVIEW	SIGN-OFF	DATE
DEPARTMENT		
LAND USE PLANNER		
PUBLIC WORKS DIRECTOR		
S.F. WATER COMPANY		

COUNTY USE ONLY

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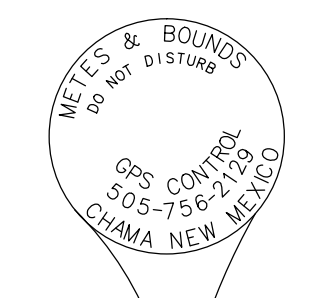
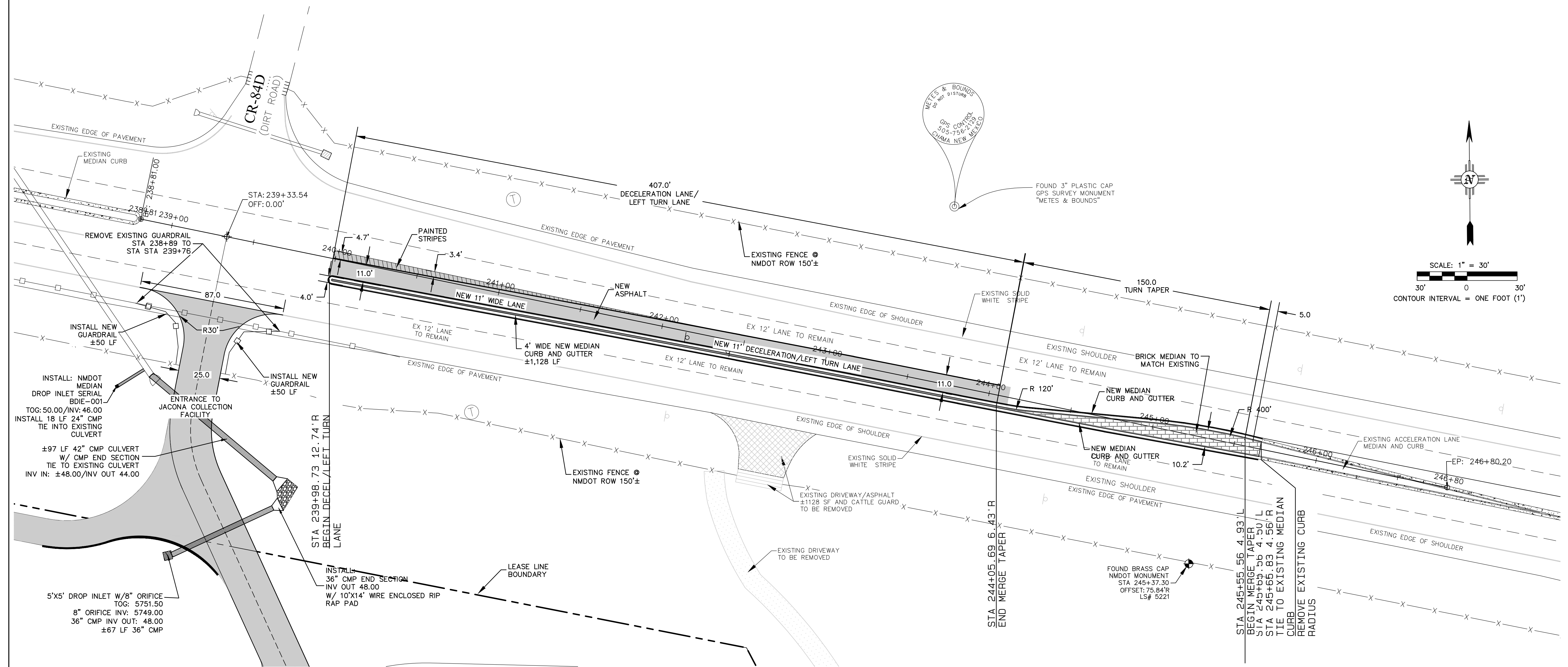


PROJECT: **JACONA TRANSFER STATION**
 SHEET TITLE: **NM 502 ENTRANCE STAKEOUT PLAN**

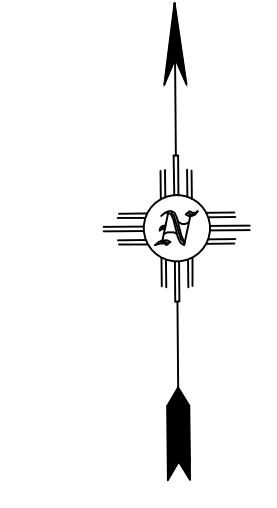
COUNTY REVIEW	SIGN-OFF	DATE

DEPARTMENT: LAND USE PLANNER
 PUBLIC WORKS DIRECTOR
 S.F. WATER COMPANY

SHEET NO. **C-8**
 COUNTY USE ONLY



FOUND 3" PLASTIC CAP GPS SURVEY MONUMENT "METES & BOUNDS"



SCALE: 1" = 30'
 30' 0 30'
 CONTOUR INTERVAL = ONE FOOT (1')

PROPOSED LEFT TURN CONDITION

RECORD DRAWINGS

THIS RECORD DOCUMENT HAS BEEN PREPARED BASED ON THE BEST AVAILABLE INFORMATION AS PROVIDED BY OTHERS. WALKER ENGINEERING CERTIFIES THAT THE INFORMATION SHOWN IS A REASONABLE DOCUMENTATION OF THE FINAL CONSTRUCTION.

MOREY E. WALKER, P.E. 12105 DATE

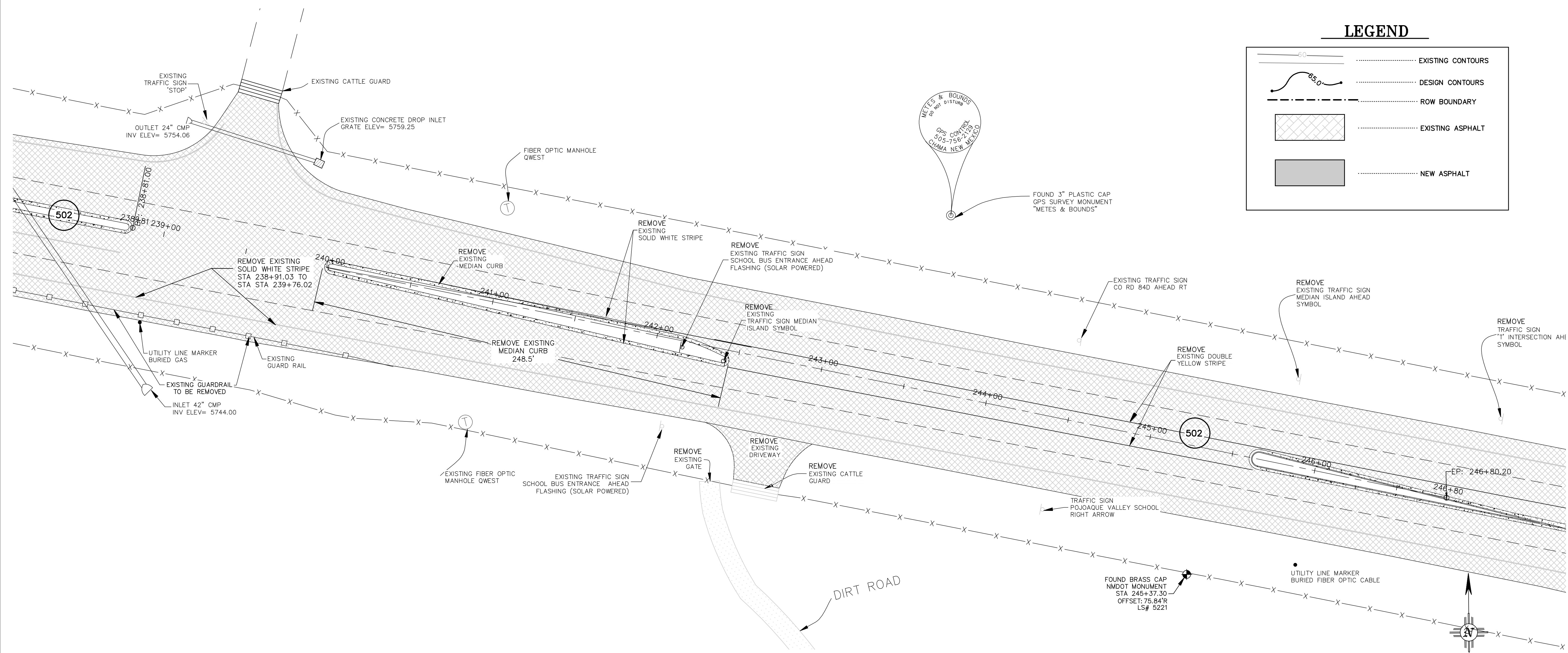
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LEGEND

	EXISTING CONTOURS
	DESIGN CONTOURS
	ROW BOUNDARY
	EXISTING ASPHALT
	NEW ASPHALT



FOUND 3" PLASTIC CAP GPS SURVEY MONUMENT "METES & BOUNDS"

N

SCALE: 1" = 30'

30' 0 30'

CONTOUR INTERVAL = ONE FOOT (1')

DEMOLITION CONDITIONS

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No.	REVISION	BY	APP.	DATE

PROJECT:	15-121	DESIGNED BY:	P.L.B.
FILE:	121 GRADE	DRAWN BY:	P.L.B.
DATE:	09/14/15	CHECKED BY:	M.E.W.
SCALE:	AS NOTED		

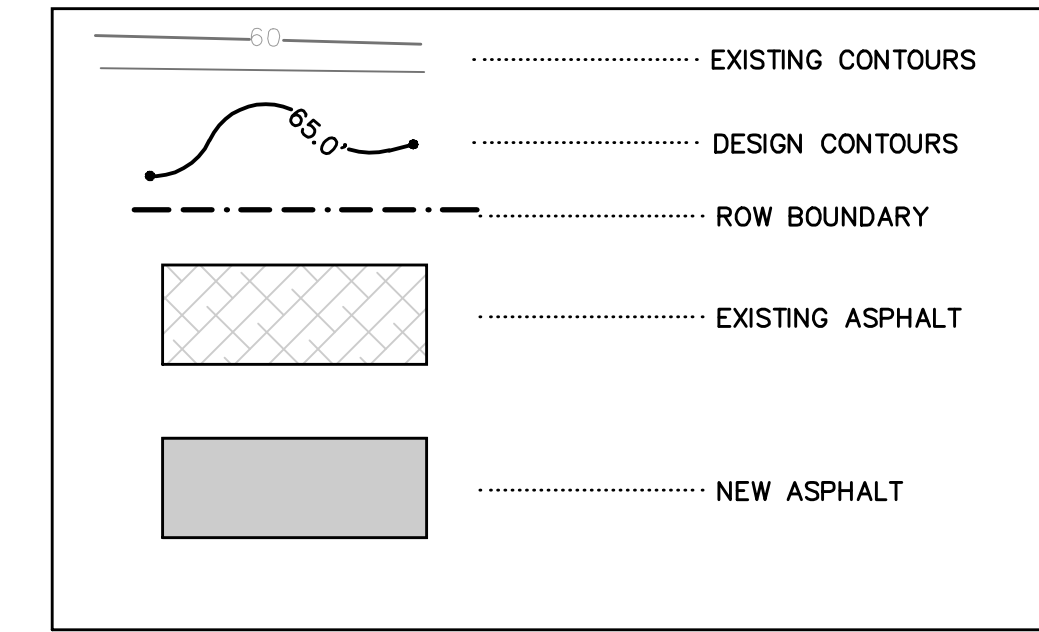


PROJECT: **JACONA TRANSFER STATION**

SHEET TITLE: **NM 502 DEMOLITION PLAN**

COUNTY REVIEW		DATE
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DEPARTMENT		
LAND USE PLANNER		
PUBLIC WORKS DIRECTOR		
S.F. WATER COMPANY		
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LEGEND

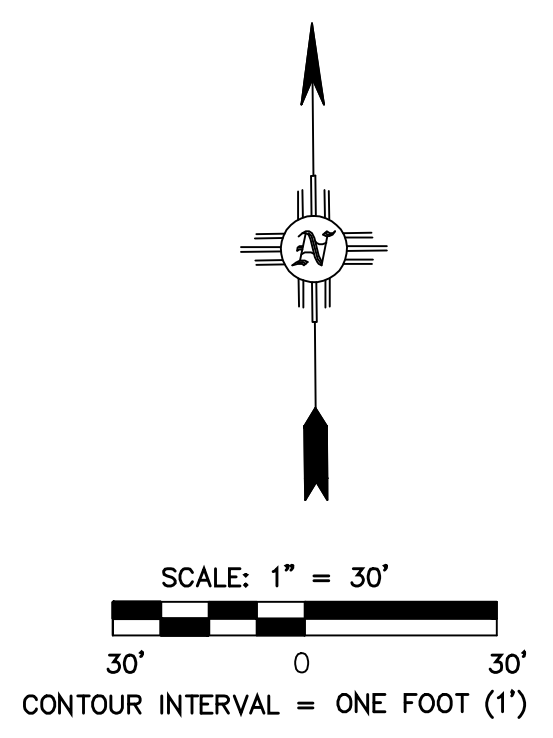
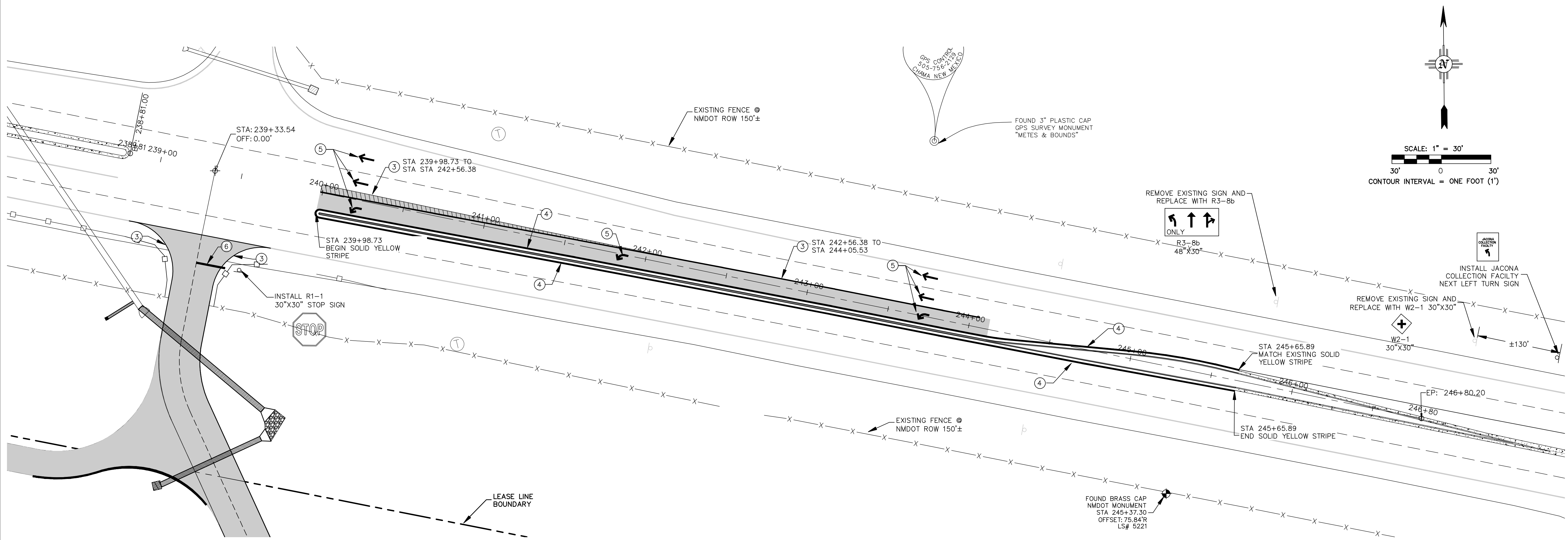


RECORD DRAWINGS

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MOREY E. WALKER, P.E. 12105 DATE

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PROPOSED STRIPING AND SIGNAGE PLAN

STRIPING NOTE

- ① 4" DOUBLE SOLID YELLOW STRIPE 3M INTERSECTION GRADE TAPE (OR APPROVED EQUAL) RETRO-REFLECTIVE
- ② 4" SINGLE DASHED YELLOW 3M INTERSECTION GRADE TAPE (OR APPROVED EQUAL) RETRO-REFLECTIVE
- ③ 4" SOLID WHITE STRIPE 3M INTERSECTION GRADE TAPE (OR APPROVED EQUAL) RETRO-REFLECTIVE
- ④ 4" SOLID YELLOW STRIPE 3M INTERSECTION GRADE TAPE (OR APPROVED EQUAL) RETRO-REFLECTIVE
- ⑤ SOLID WHITE RETRO-REFLECTIVE PAINT
- ⑥ 24" STOP BARS 3M INTERSECTION GRADE TAPE (OR APPROVED EQUAL) RETRO-REFLECTIVE

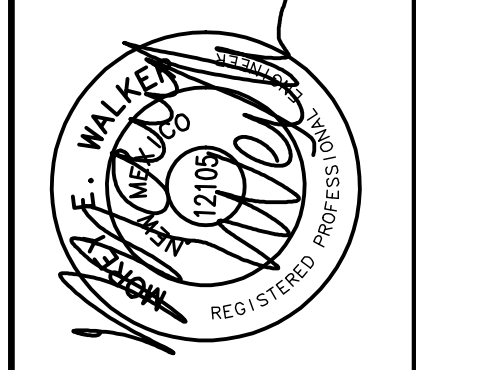
SIGNAGE AND STRIPING NOTE

ALL SIGNAGE AND STRIPING TO BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. ALL SYMBOLS AND TAPED STRIPES TO BE 3M INTERSECTION GRADE TAPE (60 MIL. OR APPROVED EQUAL) RETRO-REFLECTIVE.

ALL SIGNAGE TO BE PLACED ON 10 FOOT BLACK U-CHANNEL POSTS UTILIZING THE LAP SPLICE ANCHOR BREAKAWAY SYSTEM AND 3 FOOT U CHANNEL ANCHOR.

No.	REVISION	BY	APP.	DATE

PROJECT: 15-121 DESIGNED BY: P.L.B.
 FILE: 121 GRADE DRAWN BY: P.L.B.
 DATE: 09/14/15 CHECKED BY: M.E.W.
 SCALE: AS NOTED



PROJECT: **JACONA TRANSFER STATION**
 SHEET TITLE: **NM 502 STRIPING AND SIGNAGE PLAN**

COUNTY REVIEW	SIGN-OFF	DATE
DEPARTMENT		
LAND USE PLANNER		
PUBLIC WORKS DIRECTOR		
S.F. WATER COMPANY		

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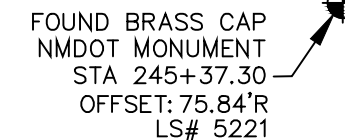
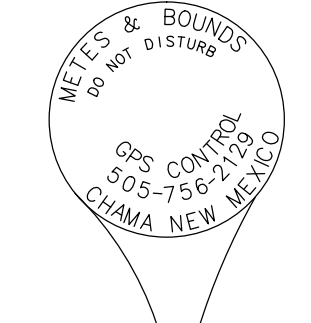
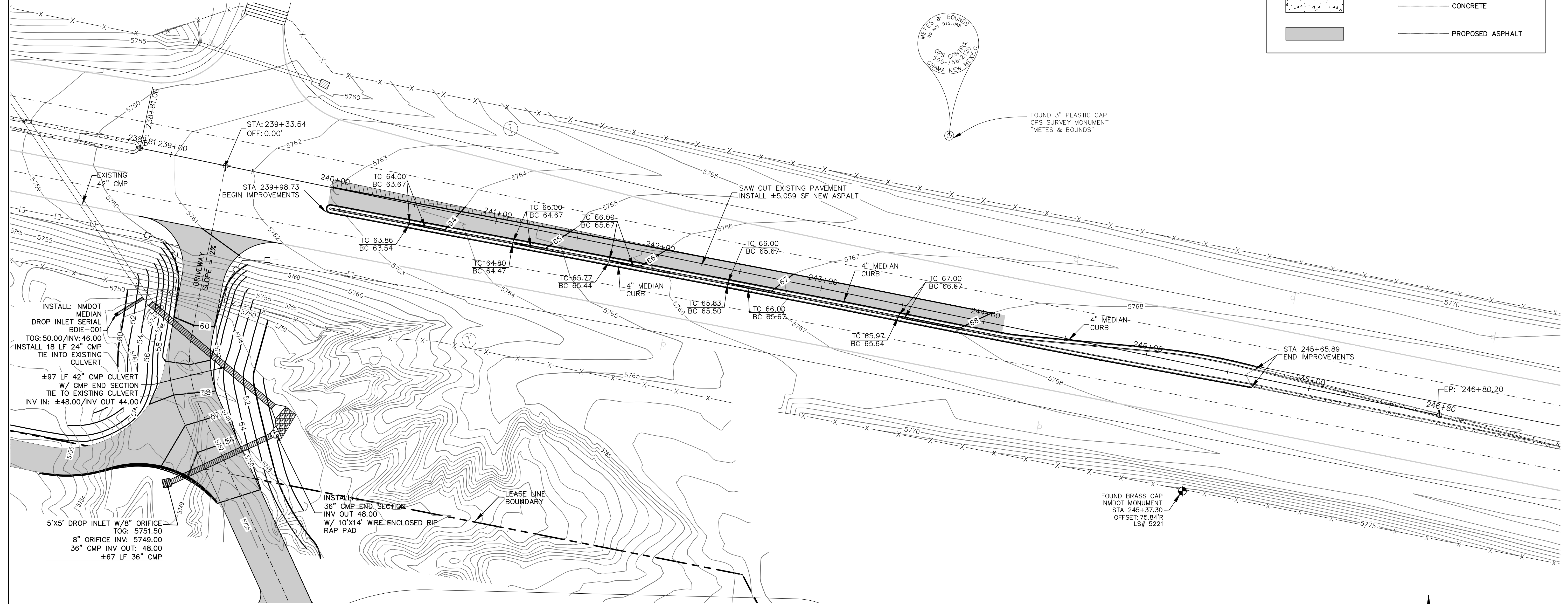
RECORD DRAWINGS

THIS RECORD DOCUMENT HAS BEEN PREPARED BASED ON THE BEST AVAILABLE INFORMATION AS PROVIDED BY OTHERS. WALKER ENGINEERING CERTIFIES THAT THE INFORMATION SHOWN IS A REASONABLE DOCUMENTATION OF THE FINAL CONSTRUCTION.

MOREY E. WALKER, P.E. 12105 DATE

LEGEND

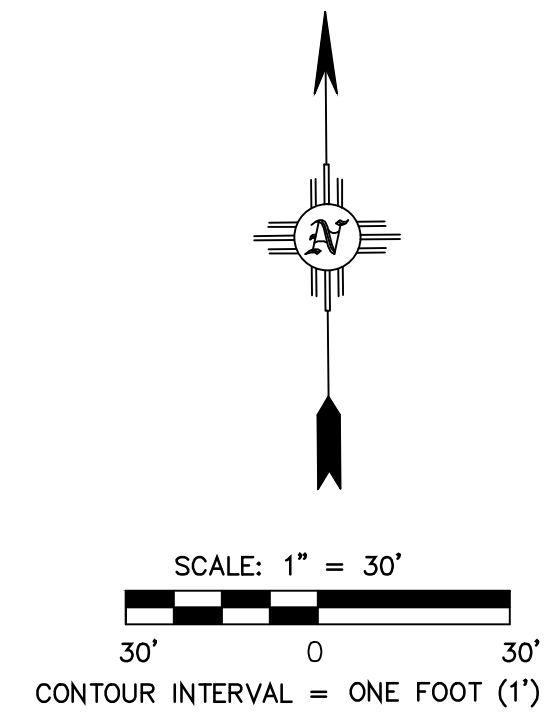
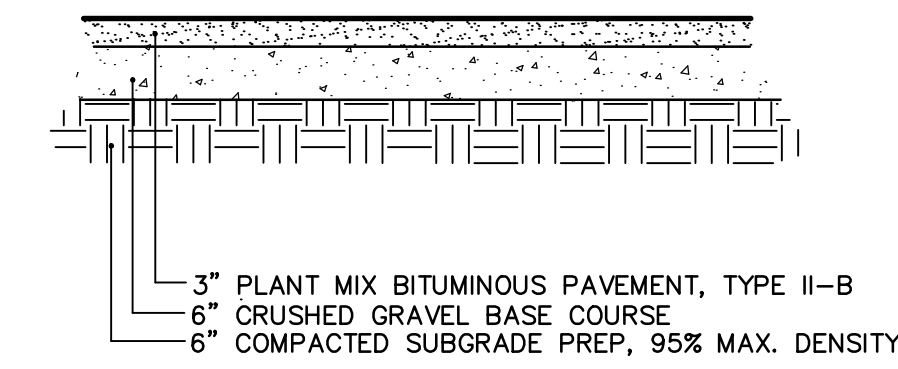
	EXISTING CONTOURS
	DESIGN CONTOURS
	SITE BOUNDARY
	SPOT ELEVATION
	FIELD GRADE
	TOP OF WALL
	WATER FLOW DIRECTION
	FINISHED PAD
	RETAINING WALL
	CONCRETE
	PROPOSED ASPHALT



UTILITY NOTE

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THE DRAWING, THEY ARE SHOWN IN APPROXIMATE MANNER ONLY. UTILITY LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OR PIPELINE COMPANY, THE OWNER, OR BY OTHERS. THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING ABOVE AND UNDERGROUND UTILITIES, OR EXISTING PIPELINES. THE ENGINEER MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM HIMSELF OF THE LOCATION OF ANY EXISTING ABOVE AND UNDERGROUND UTILITIES, AND EXISTING PIPELINES, IN AND NEAR THE AREA OF THE WORK, IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY HIS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING ABOVE AND UNDERGROUND UTILITIES, AND EXISTING PIPELINES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUES PERTAINING TO THE LOCATION OF THESE LINES IN PLANNING AND CONDUCTING EXCAVATION WORK.



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No.	REVISION	BY	APP.	DATE

PROJECT: 15-121 DESIGNED BY: P.L.B.
 RULE: 121 GRADE DRAWN BY: P.L.B.
 DATE: 09/14/15 CHECKED BY: M.E.W.
 SCALE: AS NOTED



PROJECT: **JACONA TRANSFER STATION**
 SHEET TITLE: **NM 502 GRADING AND DRAINAGE PLAN**

COUNTY REVIEW	SIGN-OFF	DATE
DEPARTMENT: LAND USE PLANNER		
S.F. WATER COMPANY		

COUNTY USE ONLY

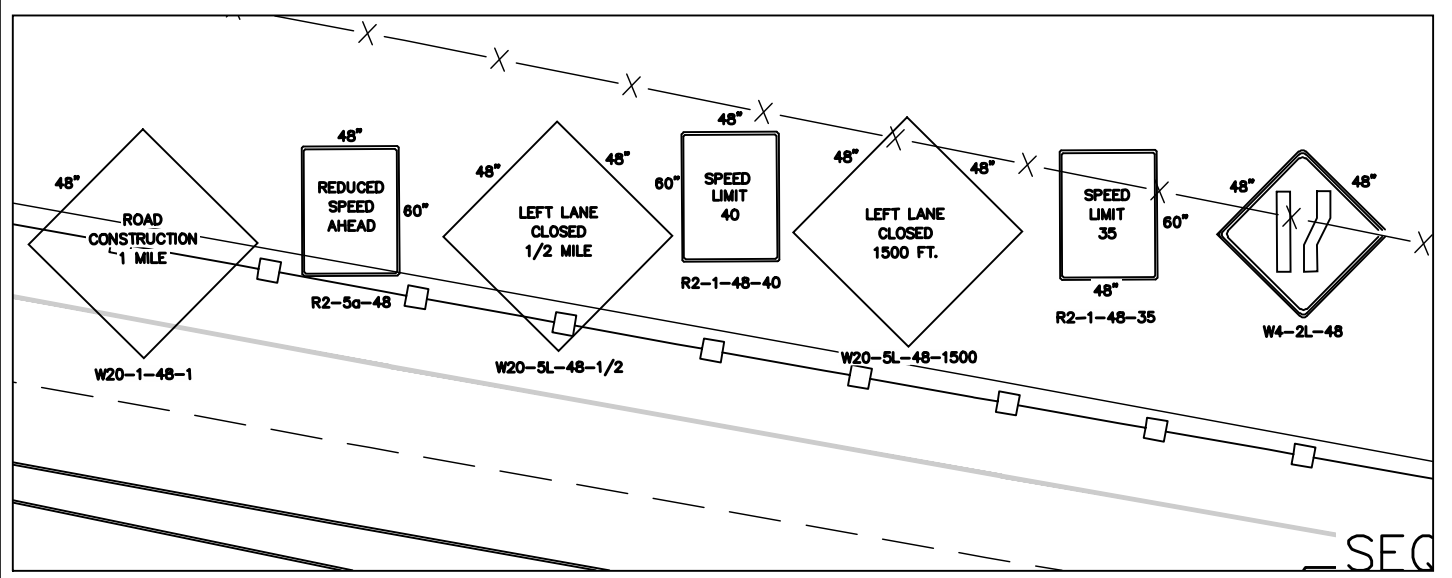
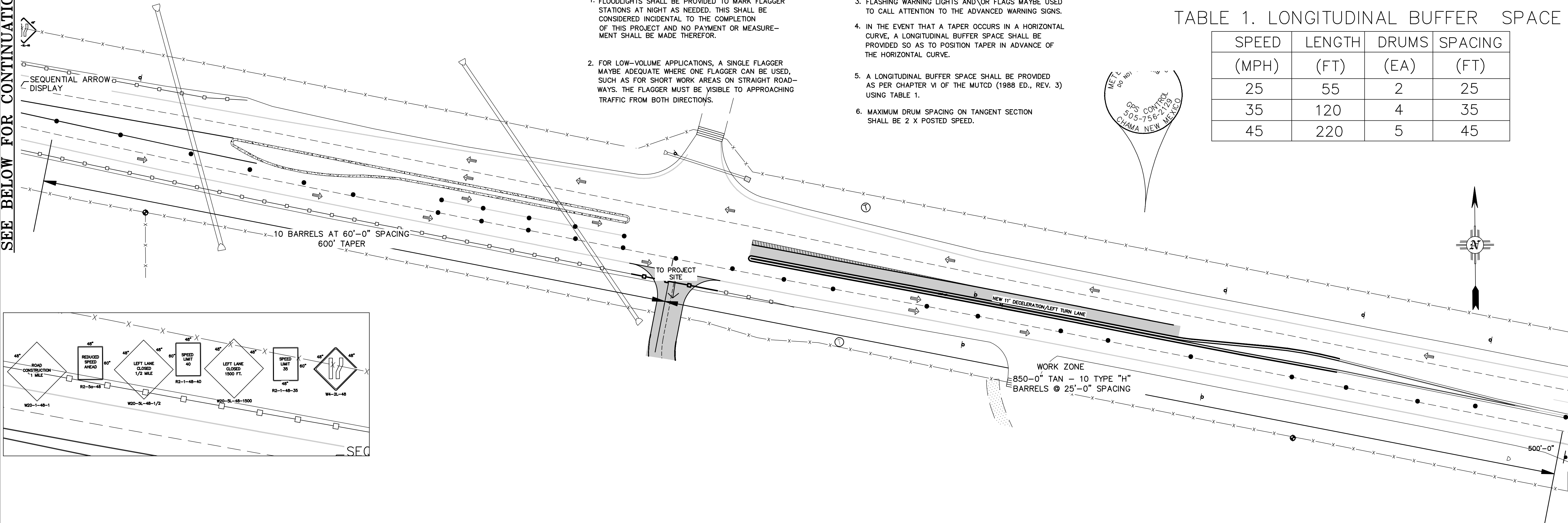
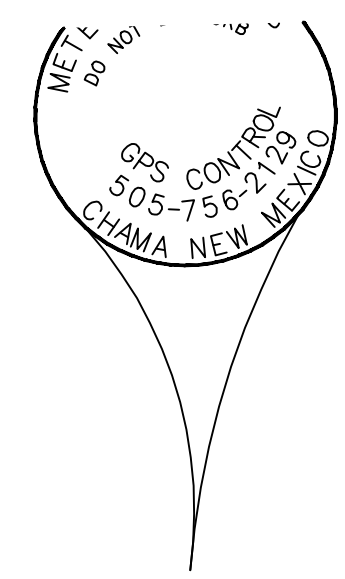
SEE BELOW FOR CONTINUATION

NOTES:

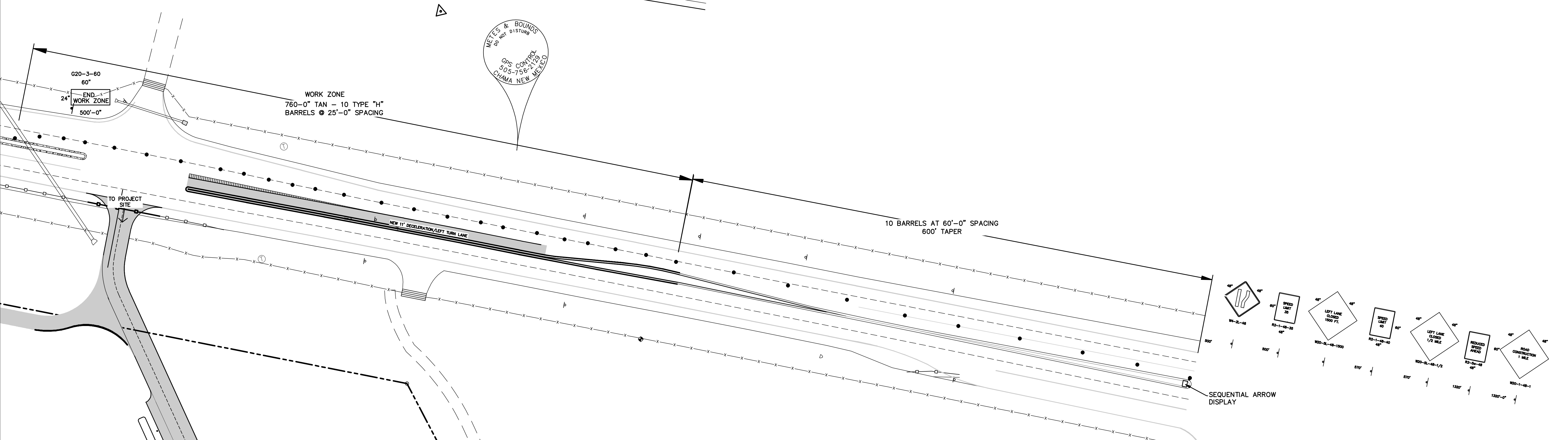
1. FLOODLIGHTS SHALL BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED. THIS SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THIS PROJECT AND NO PAYMENT OR MEASUREMENT SHALL BE MADE THEREFOR.
2. FOR LOW-VOLUME APPLICATIONS, A SINGLE FLAGGER MAYBE ADEQUATE WHERE ONE FLAGGER CAN BE USED, SUCH AS FOR SHORT WORK AREAS ON STRAIGHT ROADWAYS. THE FLAGGER MUST BE VISIBLE TO APPROACHING TRAFFIC FROM BOTH DIRECTIONS.
3. FLASHING WARNING LIGHTS AND/OR FLAGS MAYBE USED TO CALL ATTENTION TO THE ADVANCED WARNING SIGNS.
4. IN THE EVENT THAT A TAPER OCCURS IN A HORIZONTAL CURVE, A LONGITUDINAL BUFFER SPACE SHALL BE PROVIDED SO AS TO POSITION TAPER IN ADVANCE OF THE HORIZONTAL CURVE.
5. A LONGITUDINAL BUFFER SPACE SHALL BE PROVIDED AS PER CHAPTER VI OF THE MUTCD (1988 ED., REV. 3) USING TABLE 1.
6. MAXIMUM DRUM SPACING ON TANGENT SECTION SHALL BE 2 X POSTED SPEED.

TABLE 1. LONGITUDINAL BUFFER SPACE

SPEED (MPH)	LENGTH (FT)	DRUMS (EA)	SPACING (FT)
25	55	2	25
35	120	4	35
45	220	5	45



**TYPICAL SIGNING - LEFT LANE CLOSED
EAST BOUND**



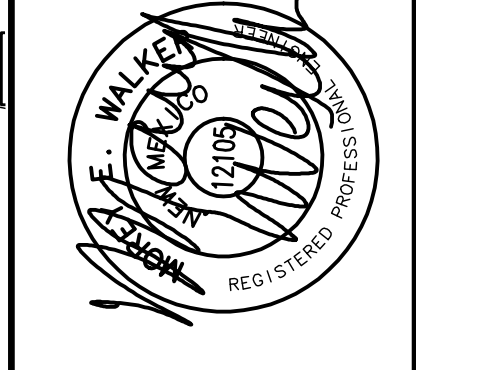
**TYPICAL SIGNING - LEFT LANE CLOSED
WEST BOUND**

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 905 Camino Sierra Vista, Santa Fe, NM 87505
 505-820-7990
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 E-MAIL civil@walkerengineering.net

No.	REVISION	BY	APP.	DATE

PROJECT: 15-121
 FILE: 121 GRADE
 DATE: 09/09/15
 SCALE: AS NOTED

DESIGNED BY: P.L.L.
 DRAWN BY: P.L.L.
 CHECKED BY: M.E.W.
 AS NOTED

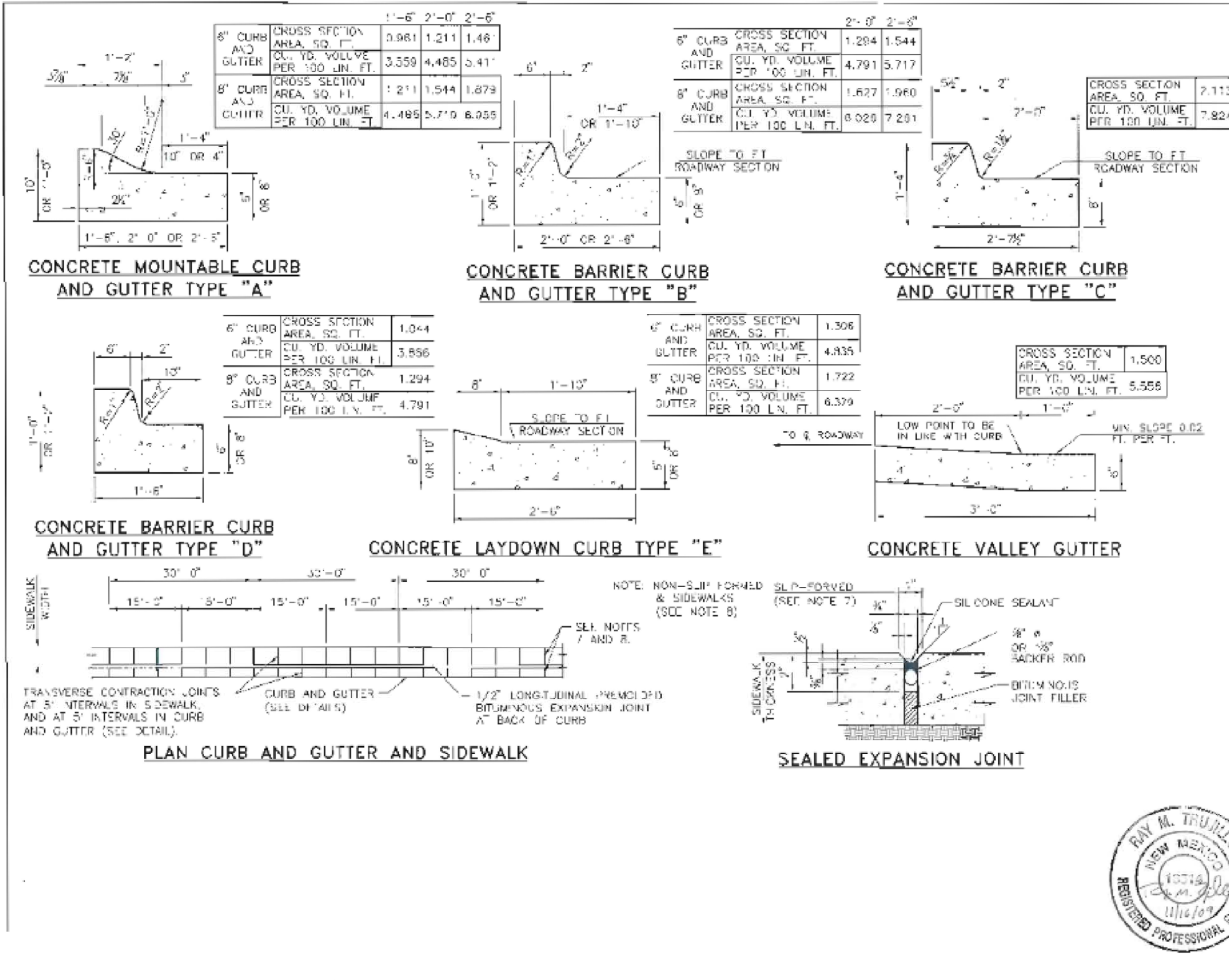


PROJECT: **JACONA**
TRANSFER STATION
 SHEET TITLE: **NM 502**
TRAFFIC CONTROL PLAN

COUNTY REVIEW	SIGN-OFF	DATE

DEPARTMENT: LAND USE PLANNER
 PUBLIC WORKS DIRECTOR
 S.F. WATER COMPANY

COUNTY USE ONLY



GENERAL NOTES

- CONCRETE SHALL BE STRUCTURAL CONCRETE CLASS "A".
- END OF DAYS POUR, 30 MINUTE 'N' FORMATIONS, COLD JOINTS AND DROP CURBS SHALL OCCUR AT THE LOCATION OF A CONSTRUCTION JOINT AND A 3/4" FRESH-PAVED BITUMINOUS JOINT IS REQUIRED.
- PLACE TRANSVERSE CONTRACTION JOINTS AT 5'-0" INTERVALS AND AT THE END OF RADIUS POINTS OR ISLAND NOSES.
- 2ND COURSE MATERIAL ON WHICH SIDEWALK IS TO BE PLACED SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T 99, METHOD C.
- EXCAVATION AND FRESH-PAVED BITUMINOUS EXPANSION JOINTS SHALL BE FRESH-PAVED IN THE UNIT PRICE BID FOR SIDEWALKS.
- THE 3RD COURSE SHALL BE SEALED IN ACCORDANCE WITH SECTION 402 OF THE STANDARD SPECIFICATIONS.
- FOR SLIP FORMED CURB AND GUTTER, FURNISH 1" SEALED EXPANSION JOINTS AT 30' INTERVALS, AND TRANSVERSE CONTRACTION JOINTS AT 5' INTERVALS.
- FOR SIDEWALKS AND NON-SLIP FORMED CURB AND GUTTER, FURNISH 3/4" SEALED EXPANSION JOINTS AT 30' INTERVALS, AND TRANSVERSE CONTRACTION JOINTS AT 5' INTERVALS.

TRANSVERSE CONTRACTION JOINT

SIDEWALK CURB AND GUTTER

DESIGNED BY: _____ DRAWN BY: SKL CHECKED BY: JAL
609-01-1/1

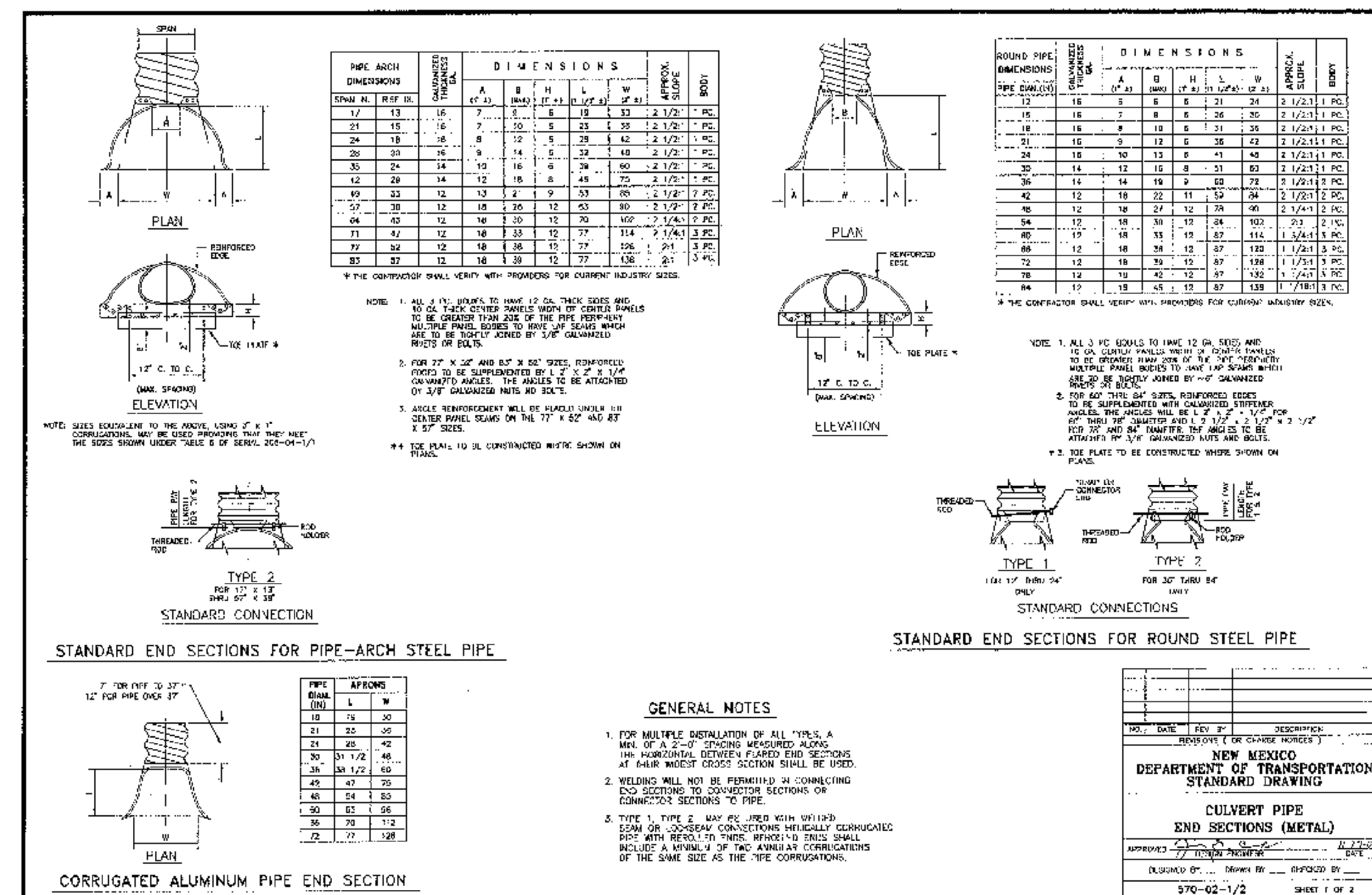


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PROJECT: 15-121
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DESIGNED BY: P.L.B.
DRAWN BY: P.L.B.
CHECKED BY: M.E.W.
AS NOTED



JACONA TRANSFER STATION

NMDOT DETAILS

PROJECT: _____ SHEET TITLE: _____

COUNTY REVIEW SIGN-OFF DATE

DEPARTMENT LAND USE PLANNER PUBLIC WORKS DIRECTOR S.F. WATER COMPANY

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

CULVERT PIPE END SECTIONS (METAL)

APPROVED BY: _____ DATE: _____

DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____

570-02-1/2 SHEET 1 OF 2

ABBREVIATIONS

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

LEGEND

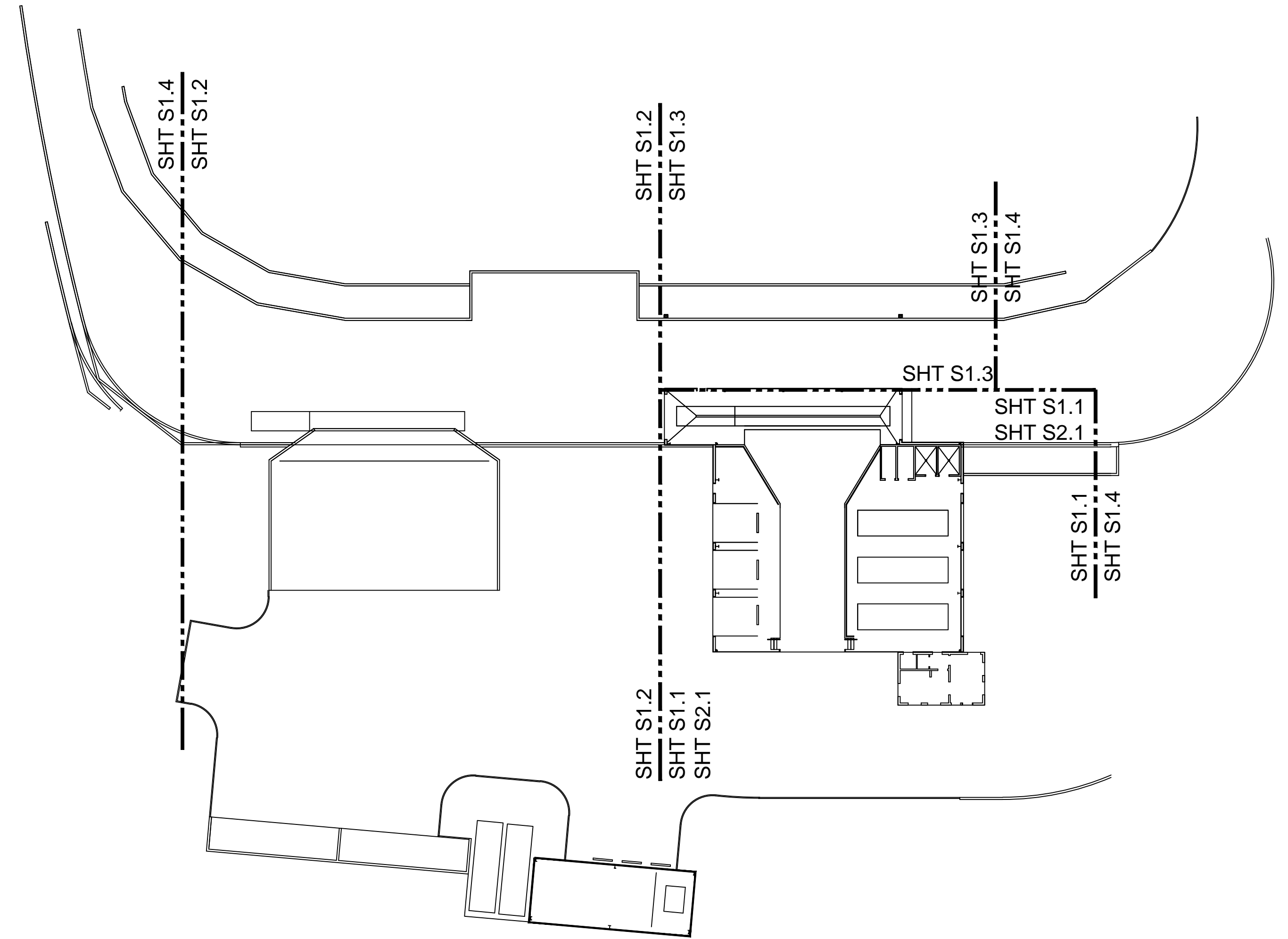
SYMBOL	DESCRIPTION
	ELEVATION SYMBOL
	HOLD DOWN LOCATION
	HELICAL PILE LOCATION
	KEYED NOTE
	SUBGRADE
	DRAWING REVISION NUMBER
	CURRENT REVISION CLOUD
	RIGID INSULATION
	CAST IN PLACE CONCRETE
	WOOD FRAMED WALL
	DETAIL CUT
	SHEET REFERENCE
	BEAM OR HEADER
	FOOTING

PLAN SET INDEX

S0.1	COVER PAGE
S0.2	OUTLINE SPECIFICATIONS
S0.3	OUTLINE SPECIFICATIONS
S0.4	TYPICAL DETAILS
S0.5	TYPICAL DETAILS
S1.1	FOUNDATION PLAN
S1.2	FOUNDATION PLAN
S1.3	FOUNDATION PLAN
S1.4	FOUNDATION PLAN
S2.1	FRAMING PLAN
S3.1	FOUNDATION DETAILS
S3.2	FOUNDATION DETAILS
S4.1	FRAMING DETAILS

JACONA COLLECTION CENTER
SANTA FE COUNTY
Santa Fe, New Mexico

Revisions



FLOOR PLAN KEY

COVER - INDEX; KEY PLAN;
ABBREVIATIONS; LEGEND

LUCHINI TRUJILLO
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ENGINEER'S SEAL
Eric D. Trujillo, PE
New Mexico
License Number
21656

LTSE Job # 1152

Eric D. Trujillo
NEW MEXICO
21656
PROFESSIONAL ENGINEER

BID SET

9.14.15

S0.1

16 of 49

STRUCTURAL OUTLINE SPECIFICATIONS FOR JACONA COLLECTION CENTER, SANTA FE, NEW MEXICO

I. DESIGN CRITERIA & GENERAL NOTES

A. Design Codes and Manuals:

1. 2009 International Building Code (IBC)
2. ASCE 7-05, Minimum Design Loads for Buildings and Other Structures
3. AISC Manual of Steel Construction, 13th Edition
4. ACI 318-05, Building Code Requirements for Reinforced Concrete
5. American Society for Testing and Materials (ASTM)
6. American Welding Society (AWS) D1.1, "Structural Welding Code - Steel", Latest Edition.
7. Metal Building Systems Manual, Latest Edition

B. DESIGN LOADS:

1. Minimum Uniformly Distributed Live Loads
 - a) Roof Live.....30 PSF
 - b) Roof Design Snow Load
 - (1) Ground Snow Load, pg.....30 PSF
 - (2) Sloped Roof Snow Load, ps.....25.2 PSF
 - (3) Exposure Factor, ce.....1.0
 - (4) Snow Thermal Factor, ct.....1.2
 - (5) Snow Importance Factor, I.....1.0
 - (6) Drift Surcharge Load, pd
Per Metal Building Manufacturer
 - (7) Width of Snow Drift, w
Per Metal Building Manufacturer
 - c) Floor Live.....40 PSF
2. Minimum Uniformly Distributed Design Dead Loads
 - a) Roof.....per Metal Building Manufacturer
 - b) Roof Collateral Load.....5 PSF
3. Wind Loading - ASCE 7-05
 - a) Occupancy Category II
 - b) Basic Wind Velocity (V) - (3 SECOND GUST) - 90 MPH
 - c) Category II - Importance Factor = 1.0 - Exposure "C"
 - d) Design Wind Pressures for Components and Cladding:
 - e) Main Building
 - (1) Roof:
 - (a) Zone 1, p = -16.92 psf / +10.66 psf
 - (b) Zone 2, p = -29.46 psf / +10.66 psf
 - (c) Zone 3, p = -43.56 psf / +10.66 psf
 - (2) Walls:
 - (a) Zone 4, p = -20.06 psf / +18.49 psf
 - (b) Zone 5, p = -24.76 psf / +18.49 psf
 - (3) Effective Wind Area = 10 sf
 - f) Tunnel Building
 - (1) Roof:
 - (a) Zone 1, p = -18.76 psf / +11.81 psf
 - (b) Zone 2, p = -32.66 psf / +11.81 psf
 - (c) Zone 3, p = -48.29 psf / +11.81 psf
 - (2) Walls:
 - (a) Zone 4, p = -22.23 psf / +20.50 psf
 - (b) Zone 5, p = -27.44 psf / +20.50 psf
 - (3) Effective Wind Area = 10 sf
 - g) Three-Sided "Shed" Building
 - (1) Roof:
 - (a) Zone 1, p = -22.13 psf / +16.02 psf
 - (b) Zone 2, p = -34.34 psf / +16.02 psf
 - (c) Zone 3, p = -48.07 psf / +16.02 psf
 - (2) Walls:
 - (a) Zone 4, p = -25.18 psf / +23.65 psf
 - (b) Zone 5, p = -29.76 psf / +23.65 psf
 - (3) Effective Wind Area = 10 sf
4. Earthquake Design Data - ASCE 7-05:
 - a) IBC Site Classification "C"
 - b) Occupancy Category II
 - c) Seismic Importance Factor = 1.0
 - d) Mapped Spectral Response Accelerations

- (1) $S_s = 0.464, S_1 = 0.151$
- e) Spectral Response Coefficients
 - (1) $SD_s = 0.371, SD_1 = 0.166$
- f) Seismic Design Category = "C"
- g) Basic Seismic-Force-Resisting System = Ordinary Steel Moment Frame and Ordinary Steel Concentrically Braced Frames - per Metal Building Manufacturer
- h) Seismic Response Coefficient, per Metal Building Manufacturer
- i) Response Modification Factor, per Metal Building Manufacturer
- j) Analysis Procedure Used = per Metal Building Manufacturer

C. GENERAL NOTES

1. 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.
2. Any conflict between structural drawings, architectural drawings and/or specifications shall be brought to the attention of the architect prior to proceeding with the work affected.
3. OPENINGS
 - a) 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.
4. 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.
5. 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.

D. Foundation Notes

1. Foundation design is based on the metal building design provided by RIGID Global Buildings, 10 Inverness Dr. East, Suite 220, Englewood, CO 80112. Contact: Ken Olsen, Senior District Manager Western Region. Phone: 720-931-2991 or 303-845-0662. Email: KenO@rigidbuilding.com.
 - a) Cost of additional field and office work necessitated by requests by the contractor for other metal building designs that require foundation revisions 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.
2. Geotechnical engineering study and recommendations for this project has been performed by Earthworks Engineering Group, LLC, project number A15-296, dated May 29, 2015.
 - a) Important additional information concerning specific soil conditions is contained in this report and shall be reviewed prior to the start of construction.
3. Design is based on recommendations provided by the geotechnical engineering study:
 - a) Allowable soil Bearing Pressure = 2000 psf
 - b) Frost Depth / Minimum Exterior Footing Embedment = 24"
 - c) Requirements for granular base and capillary barriers is specified in this report. Areas where the capillary barriers are required shall be coordinated with the architect prior to construction.
4. 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.
 - a) 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:
 - (1) 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.
 - (2) 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).
- (3) 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).
 - (4) 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).
- b) An earthwork certification letter shall be submitted prior to placing any concrete. The letter shall include certification that all recommendations presented within the geotechnical recommendations have been completed in acceptable conformance.

II. QUALITY ASSURANCE PLAN AND STATEMENT OF SPECIAL INSPECTION

A. The contractor shall engage independent inspectors to implement special inspection. Special inspection shall conform to the IBC 2009, section 110 and chapter 17.

B. After each inspection and test, promptly submit copy of laboratory report to owner, architect/engineer, and to contractor. Report shall include:

1. 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:

1. Soils - as outlined in Outline Specifications Section titled "Foundation Notes"
2. Concrete - as outlined in the Outline Specifications Section titled "Structural Concrete"
 - a) Installation of embedded bolts and plates supporting structure
 - b) Reinforcing steel placement
 - c) Field bending of reinforcing steel
 - d) Reinforcing couplers
 - e) Anchored rebar or threaded rods into hardened concrete
3. Cold-Formed Metal Framing
 - a) Holdown anchors/strap ties
 - b) Shear wall/diaphragm fastening
 - c) Metal connectors
4. Steel - as outlined in Outline Specifications Section titled "Structural Steel"

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.

1. 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.

2. Special inspection is required for the following:

- a) Steel construction
 - (1) High strength bolts.....periodic
 - (2) Welding.....periodic
 - (3) Structural Steel & Cold-Formed Steel Deck.....periodic
- b) Concrete construction
 - (1) Reinforcing steel.....periodic
 - (2) Bolts installed prior to and during concrete placement.....periodic
 - (3) Mix design(s).....periodic
 - (4) At the time fresh concrete is sampled.....periodic
 - (5) Inspection of concrete placement.....periodic
 - (6) Inspection for maintenance of specified curing techniques.....periodic
- c) Special case
 - (1) Expansion or adhesive anchor.....periodic

III. SHOP DRAWING SUBMITTAL

A. Contractor to submit to Structural Engineer:

1. Concrete Mix Designs
2. Structural Steel
3. Cold-Formed Metal Framing

4. Steel Deck
5. Metal Building
6. Reinforcing Bars

B. 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.

IV. STRUCTURAL CONCRETE

A. All concrete edges shall be chamfered 3/4" on exposed corners unless otherwise noted.

B. Basis for design, strength at 28 days:

1. Unless indicated otherwise, all concrete shall be ready- mixed concrete with standard stone aggregate (144 PCF).
2. Air entrainment shall conform to the requirements of ACI 318-05 Table 4.2.1
3. Shrinkage shall not exceed 0.02% per ASTM C 157 at 28 days. Shrinkage-compensating concrete shall conform to the recommendations of ACI 223.
4. Structural design is based upon ACI 318-05 and construction shall conform to ACI 301 and ACI 302, latest edition(s).
 - a) $F'_c = 4000$ psi (normal weight, air entrained)
 - (1) Exposed concrete flatwork, Footings, Tie beams, Stem walls, Grade beams.
 - b) $F'_c = 3000$ psi (normal weight)
 - (1) all interior slabs-on-ground.
 - c) $F'_c = 4000$ psi (normal weight)
 - (1) all other concrete
 - d) $F'_c = 6000$ psi non-shrink grout for placement under column base plates.
 - (1) Grout to comply with ASTM C1107. Non-shrink flowable grout shall be used under base plates with shear lugs.
5. Unless otherwise indicated, concrete cover shall be:
 - a) Foundations.....3"
 - b) Grade Beams.....3"
 - c) Masonry.....Centered
 - d) Columns (Vertical Reinf.).....2"
 - e) Slabs (Not exposed to weather).....3/4"
 - f) Slabs (Exposed to weather).....1 1/2"

C. REINFORCING STEEL

1. Deformed Bars.....ASTM A615 / Grade 60
2. Welded Wire Fabric.....ASTM A185
3. Placing of reinforcing shall conform with CRSI, latest edition.
4. All reinforcing shall be held securely in position with standard accessories during placing of concrete.
5. Slab and beam bolsters and hi-chairs shall have vinyl-tipped turned-up legs where soffits/underside of slab is exposed.
6. All field bending of reinforcing shall be done cold. Heating of bars will not be permitted.
7. Unless otherwise indicated, splice reinforcing as follows:
 - a) Reinforcing Bars.....48 Bar Diameters
 - b) Welded Wire Fabric.....6"

D. SLAB-ON-GROUND CRITERIA

1. 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.
2. Moist curing of slabs-on-ground is required.
3. Care shall be taken to prevent water intrusion into the subgrade both prior to and after slab pours.
4. 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.
 - a) 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.

JACONA COLLECTION CENTER
SANTA FE COUNTY
Santa Fe, New Mexico

Revisions

OUTLINE SPECIFICATIONS

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STRUCTURAL OUTLINE SPECIFICATIONS FOR JACONA COLLECTION CENTER, SANTA FE, NEW MEXICO

- b) Early entry dry cut saw should be 1 inch into the depth of the slab. The slab shall be cut to ¼ of the slab depth to deepen the 1 inch nominal early entry saw cut within 24 hours.
- c) A construction or smooth doweled sawcut contraction joint shall be placed at a maximum of 125 ft.
- d) 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.
5. Concrete containing air-entraining admixture shall not be steel trowel finished.

E. CONCRETE PLACEMENT & TESTING

1. 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 tested at 7 days and three at 28 days. The remaining 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.
- a) Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301.
- b) Do not add water to concrete after adding high-range water-reducing admixtures to mixture.
2. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
3. 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.
4. Maintain ALL reinforcement in position on chairs during concrete placement.

F. COLD WEATHER CONCRETING

1. 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.
2. Do not use frozen materials containing ice or snow.
3. Do not place concrete on frozen subgrade or on subgrade containing frozen materials.
4. 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.

G. HOT WEATHER CONCRETING

1. 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.
2. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade uniformly moist without standing water, soft spots, or dry areas.

H. 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 American Welding Society and ASTM A-36, latest edition.

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

- 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.
- Round HSS, must conform to the requirements of ASTM A-500 Grade B with minimum yield strength of 42 ksi.
- Rectangular HSS, must conform to the requirements of ASTM A-500 Grade B with a minimum yield strength of 46 ksi.
- Pipe sections must conform to the requirements of ASTM A53 with a minimum yield strength of 35 ksi.
- 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.

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.

VI. 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.

VII. STEEL ROOF DECK

A. Submittals

- For each type of decking specified, including dimensions of individual components, profiles, and finishes.
- Shop Drawings showing location of deck units, anchorage details, accessories specified on the contract documents, and other information required for a thorough review.
- Product Certificates (if required) certifying that the supplied products comply with specified requirements
- If mechanical fasteners are used, independent test reports or evaluation reports shall be provided by the fastener manufacturer

B. Comply with applicable provisions of the following specifications:

- AISI S1 00-07 w/S2-1 0, North American Specification for the Design of Cold-Formed Steel Structural Members, Including Supplement 2 (February 201 0)

2. AWS 01.3:2008, Structural Welding Code-Sheet Steel ANSI/SOI RD-201 0, Standard for Steel Roof Deck

3. Certify that each welder has satisfactorily passed AWS qualification tests for welding processes involved, and, if applicable, has undergone recertification.

C. Products

1. A manufacturer offering deck products to be incorporated into the work must be a member of the Steel Deck Institute

D. Materials:

- Sheet steel for deck and accessories shall conform to ANSI/SOI RD - 20-10, Section 2.1.A, 2.1 .8 , 2.1C, and 2.1.0.
- Steel deck and accessories shall be galvanized to G60 minimum in accordance with ASTM A653
- The deck type and thickness shall be as shown on the plans.
- The deck shall be selected to provide the load capacities shown on the drawings and as determined using the ANSI/SOI RD - 2010 construction loading criteria.
- Whenever possible, the deck shall be multi-span
- The deck type provided shall be capable of supporting the superimposed live loads as shown on the plans.
- Ridge and valley plates, flat plates at changes of deck direction, sump pans and side closures shall be the standard type provided by the deck manufacturer unless indicated otherwise on the plans
- End laps shall be installed at all deck ends and shall occur over a joist. At interior positions, panels must be sufficiently overlapped to provide adequate end distances for the connector used. A minimum end distance for fasteners used should be one inch requiring an end lap not less than two inches. Within the system, end laps may be staggered or on a continuous line without particular effect on the diaphragm strength.

E. Execution

1. Examine support framing and field conditions for compliance with requirements for installation tolerances and other conditions affecting performance of work of this section. All OSHA rules for erection must be followed.

F. Repairs

1. Before placement of roof insulation and roof covering, the deck shall be inspected for tears, dents or other damage that may prevent the deck from acting as a structural roof base. The need for repair of damaged deck shall be determined by the Architect or Engineer of Record based on structural performance, unless aesthetics have been specifically addressed in the contract documents

G. Construction Guidelines

- Do not use deck units as a working platform or storage area until units are in position and permanently attached to the structure.
- Construction loads must not exceed load carrying capacity of the deck.

VIII. METAL BUILDING SYSTEMS

A. DESIGN REQUIREMENTS

- The building manufacturer will use standards, specifications, recommendations, findings and/or interpretations of professionally-recognized groups such as AISC, AISI, AWS, ASTM, CSA, CWB, MBMA, Federal Specifications, and unpublished research by MBMA as the basis for establishing design, drafting, fabrication, and quality criteria, practices, and tolerances. The Manufacturer's design, drafting, fabrication and quality criteria, practices, and tolerances shall govern, unless specifically countermanded by the contract documents.
- Design structural mill sections and built-up plate sections in accordance with:
 - code-appropriate edition of AISC's "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings", ANSI/AISC 360 ASD method.
- Cold-Formed steel structural members and panels will generally be designed in accordance with "Specifications for the Design of Cold-Formed Steel Structural Members", 2007 Edition, ANSI/AISI S-100-07 or CAN CSA S136-07.

4. Design weldments per the following:

- Structural Welding
 - Design per AWS D1.1, "Structural Welding Code - Steel", Latest Edition.
- Cold-Formed Welding
 - Design per AWS D1.3, "Structural Welding Code - Sheet Steel", Latest Edition.

B. SUBMITTALS

- Product Data: Manufacturer's data sheets on each product to be used, including:
 - Preparation instructions and recommendations.
 - Storage and handling requirements and recommendations.
 - Installation methods.

2. Shop Drawings: Provide complete erection drawings for the proper identification and assembly of all building components. Drawings will show anchor bolt settings, transverse cross-sections, sidewall, endwall and roof framing, flashing and sheeting, and accessory installation details.

3. Certifications: Shop drawings and design analysis shall bear the seal of a registered professional engineer upon request. Design analysis shall be on file and furnished by manufacturer upon request.

4. Bill of Materials: Bills of material shall be furnished and shall include item weights.

5. Preventative Maintenance Manual.

6. Certifications: Certification of installer and welder qualifications shall be furnished as specified by the Project Engineer.

C. QUALITY ASSURANCE

- Manufacturer / Fabricator Qualifications:
 - All primary products specified in this section will be supplied by a single IAS AC 472 Accredited Manufacturer /Fabricator with a minimum of five (5) years' experience.
- Weldments/Welder/Weld Inspection Qualifications:
 - Welding inspection and welding inspector qualification for structural steel shall be in accordance with AWS D1.1, "Structural Welding Code - Steel", latest edition. Welding inspection and welding inspector qualification for cold-formed steel shall be in accordance with AWS D1.3, "Structural Welding Code - Sheet Steel", latest edition.
- Erector Qualifications: All products listed in this section are to be installed by a single installer with a minimum of five (5) years demonstrated experience in installing products of the same type and scope as specified.
- Design: Standard drawings and design analysis must bear the seal of a registered professional engineer. Design analysis must be on file and furnished by manufacturer upon request.

D. INSTALLATION

- There shall be no field modifications to primary structural members except as authorized and specified by manufacturer.

JACONA COLLECTION CENTER
SANTA FE COUNTY
Santa Fe, New Mexico

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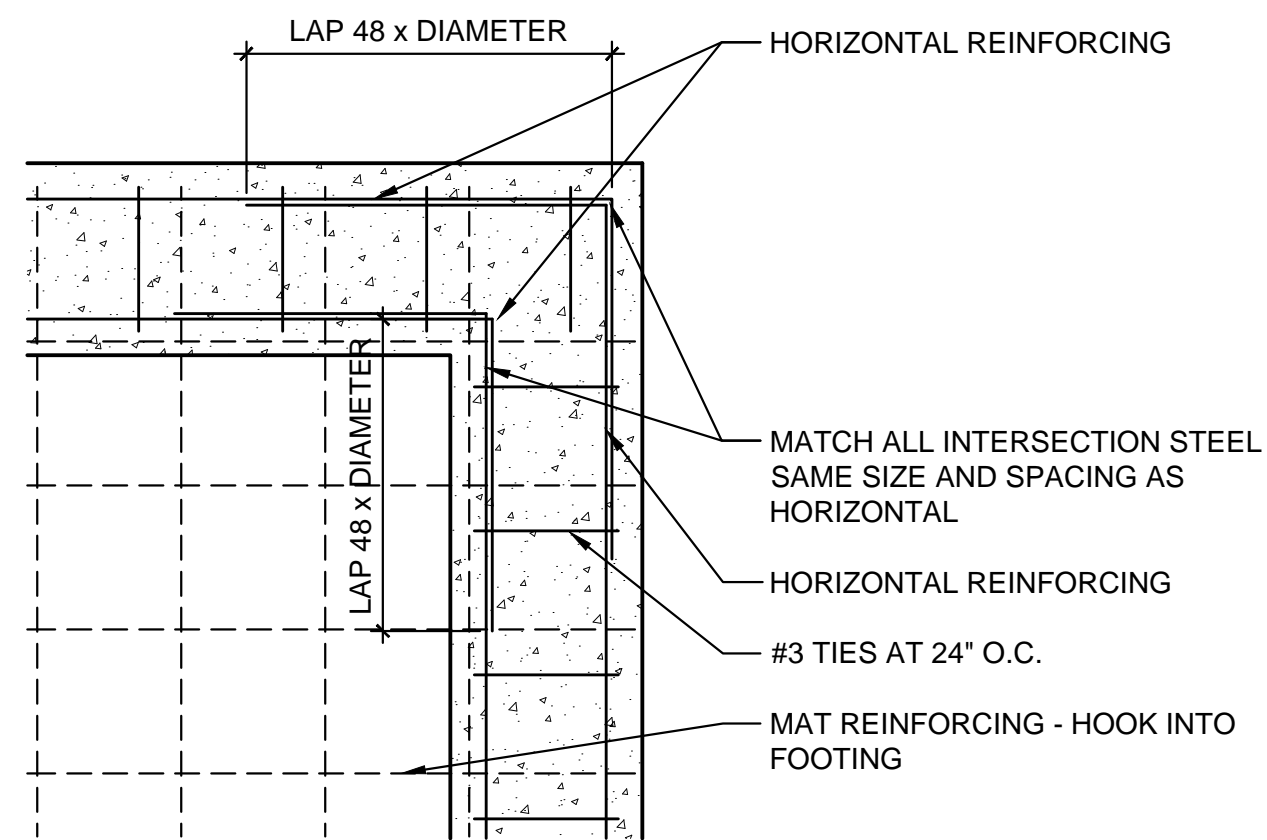
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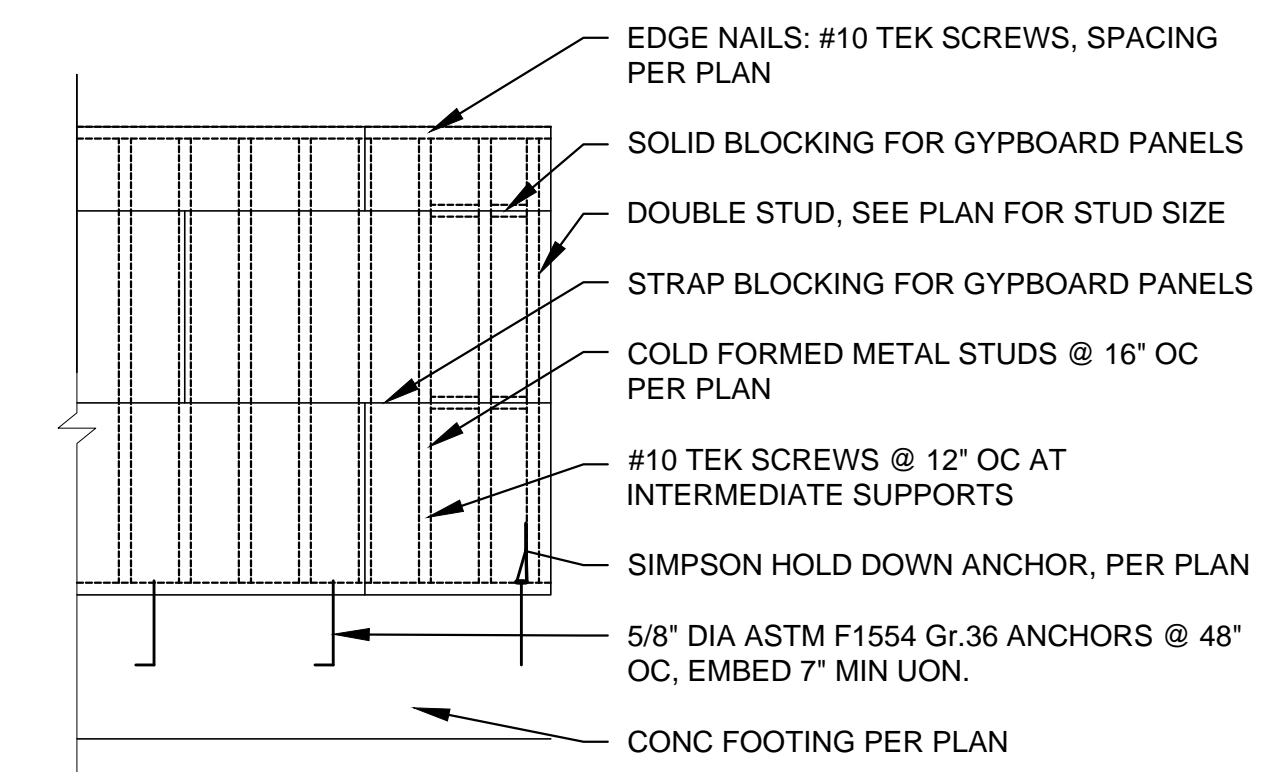
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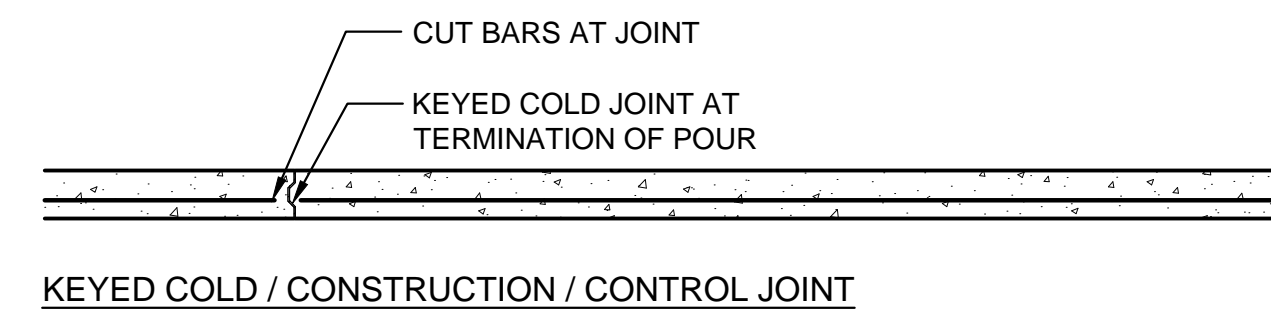
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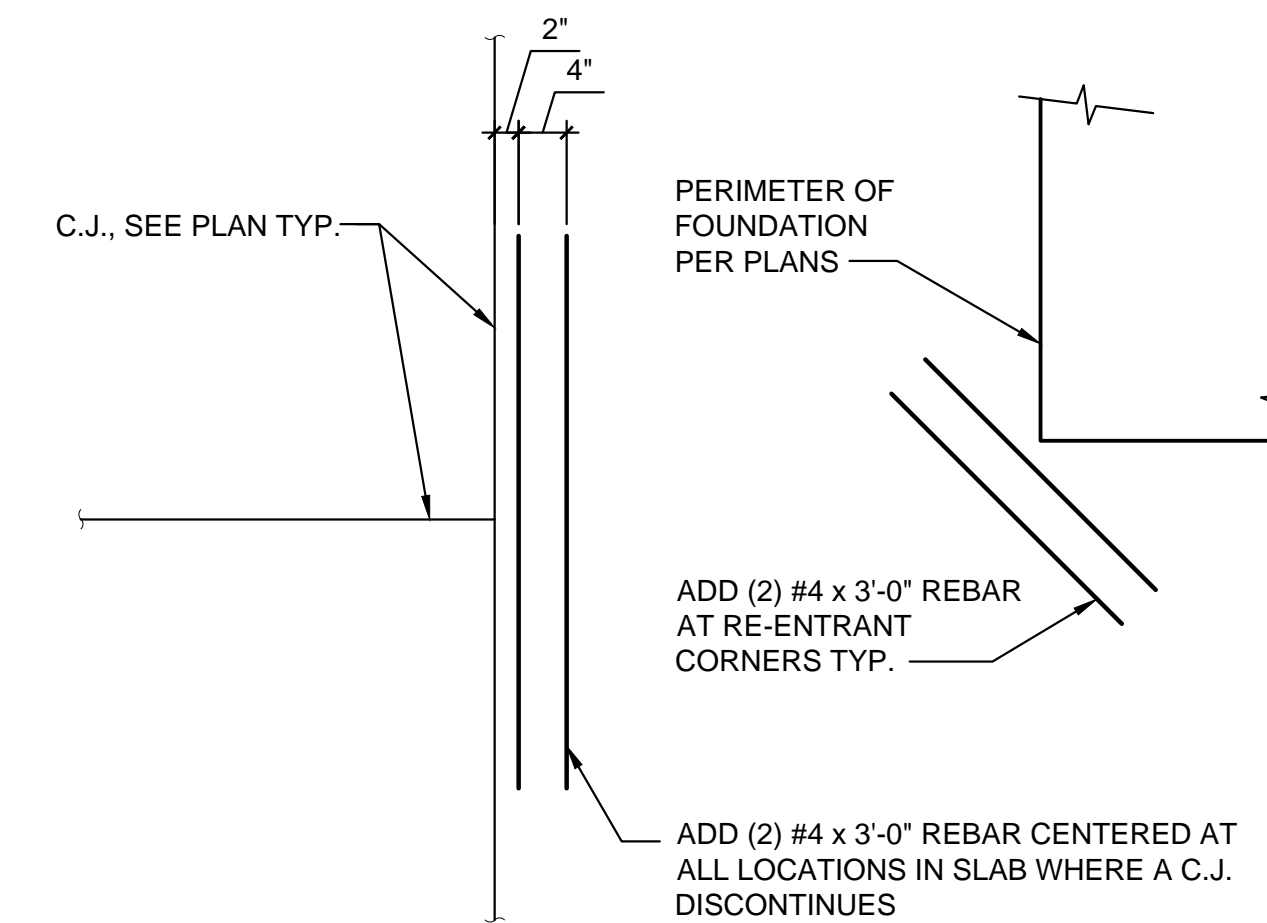
1 TYPICAL CORNER BAR REINFORCEMENT
S0.4 / 3/4" = 1'-0" IN FOOTING



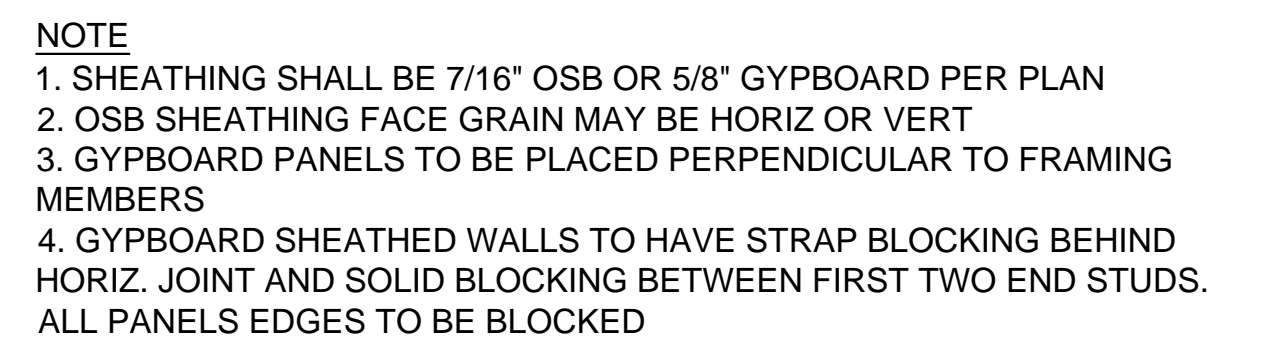
2 TYPICAL S.O.G. CRACK CONTROL AT COLUMNS
S0.4 / 3/4" = 1'-0"



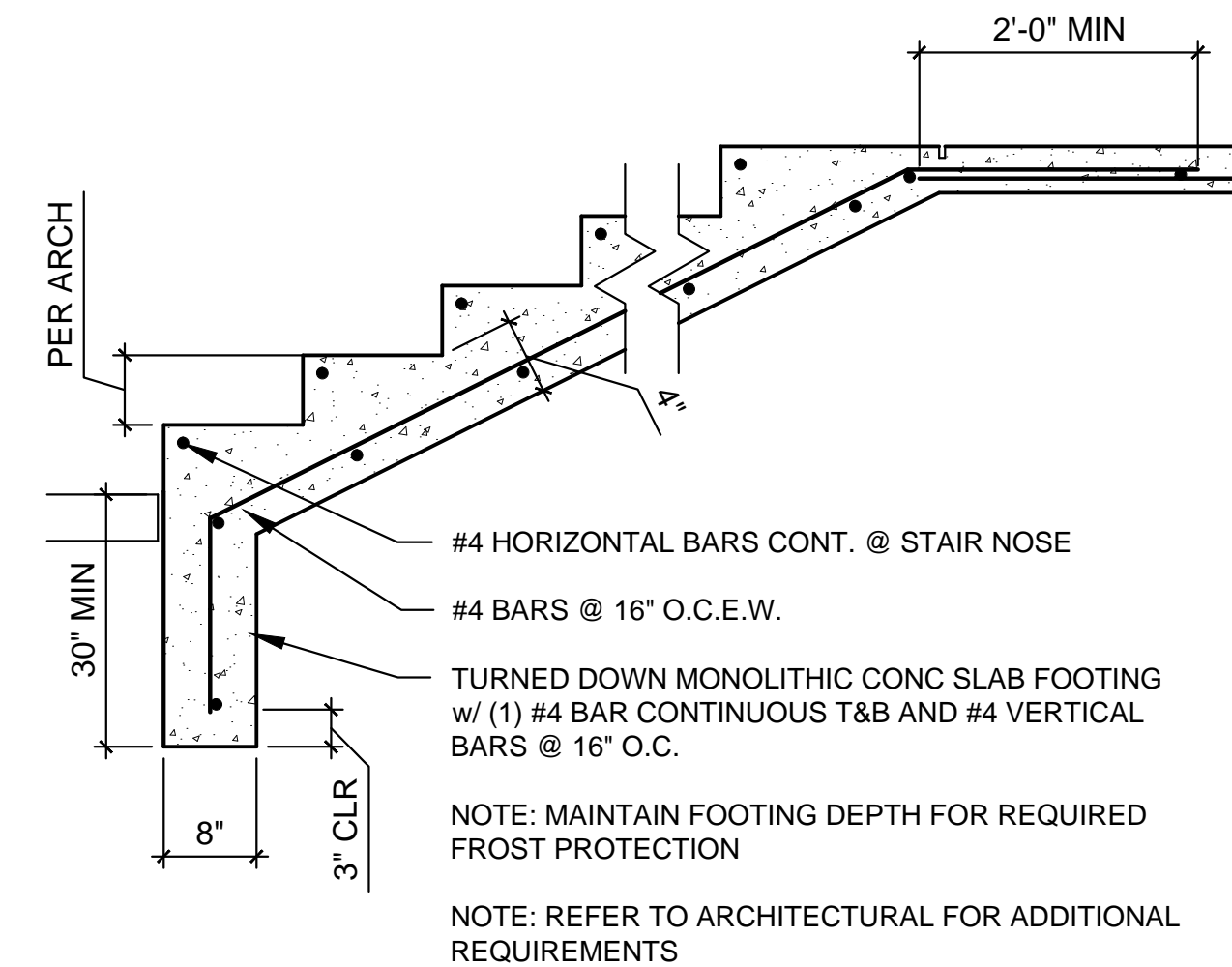
3 TYPICAL CONTROL CONTRACTION JOINT DETAILS
S0.4 / 3/4" = 1'-0"



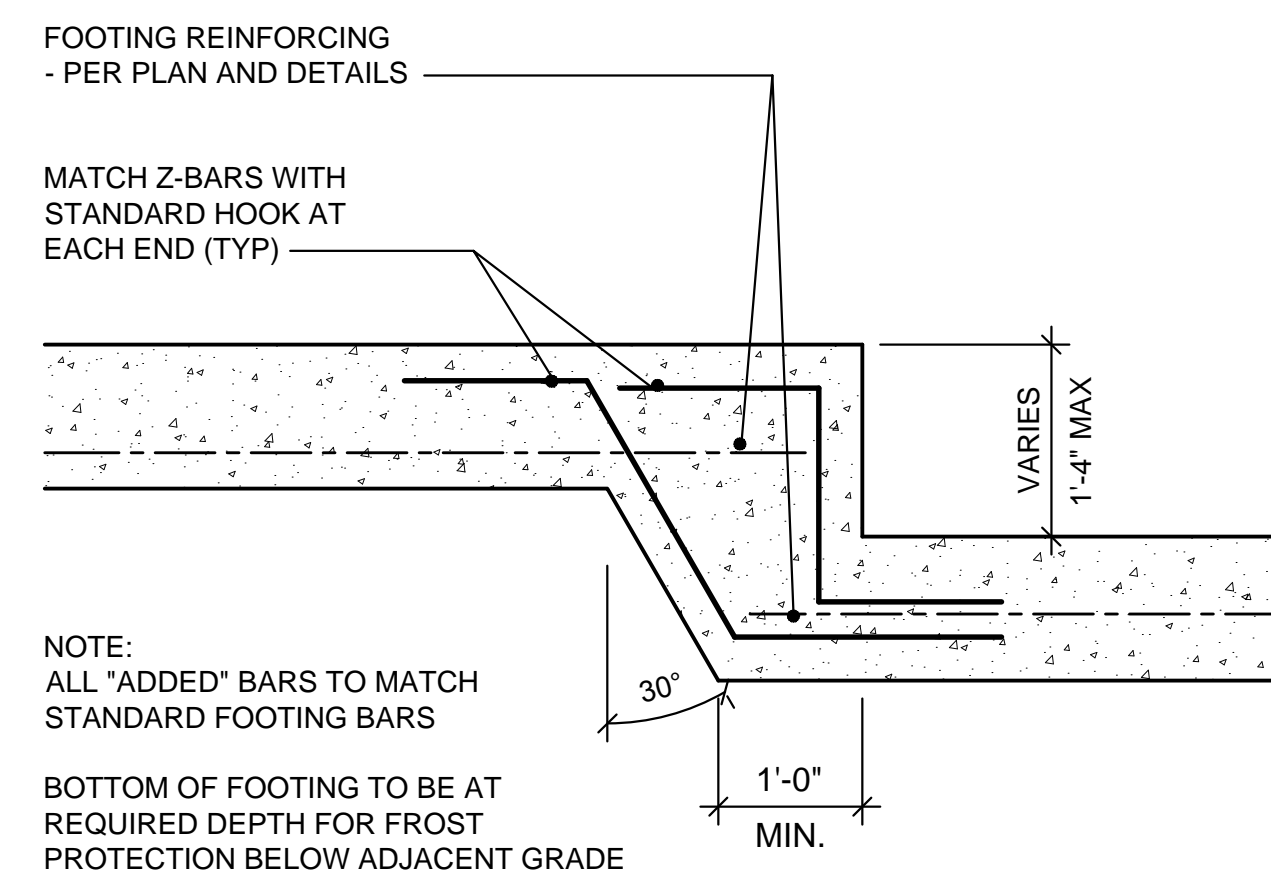
4 TYPICAL CRACK WIDTH CONTROL REINFORCING
S0.4 / 3/4" = 1'-0"



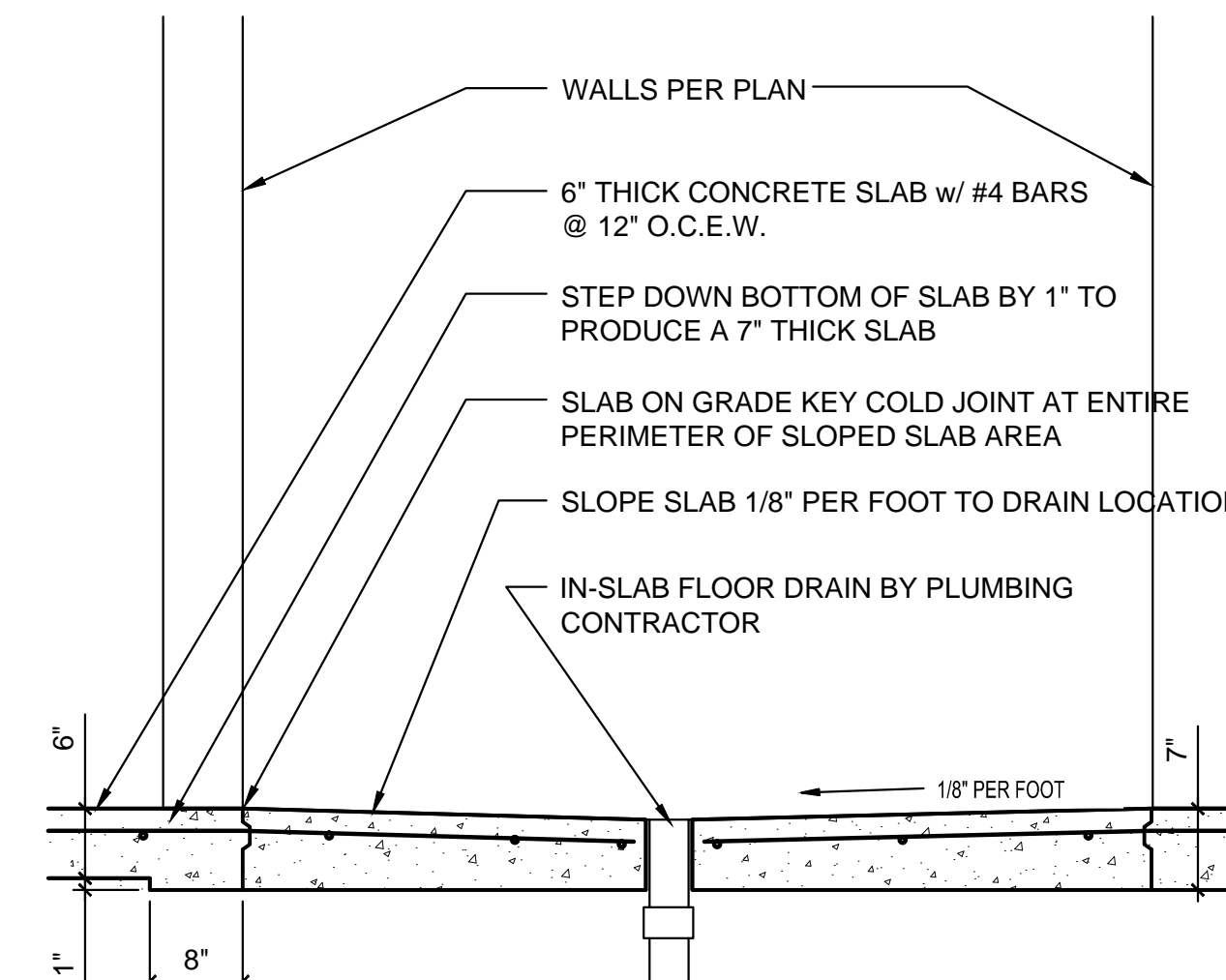
5 TYP SHEAR WALL
S0.4 / N.T.S.



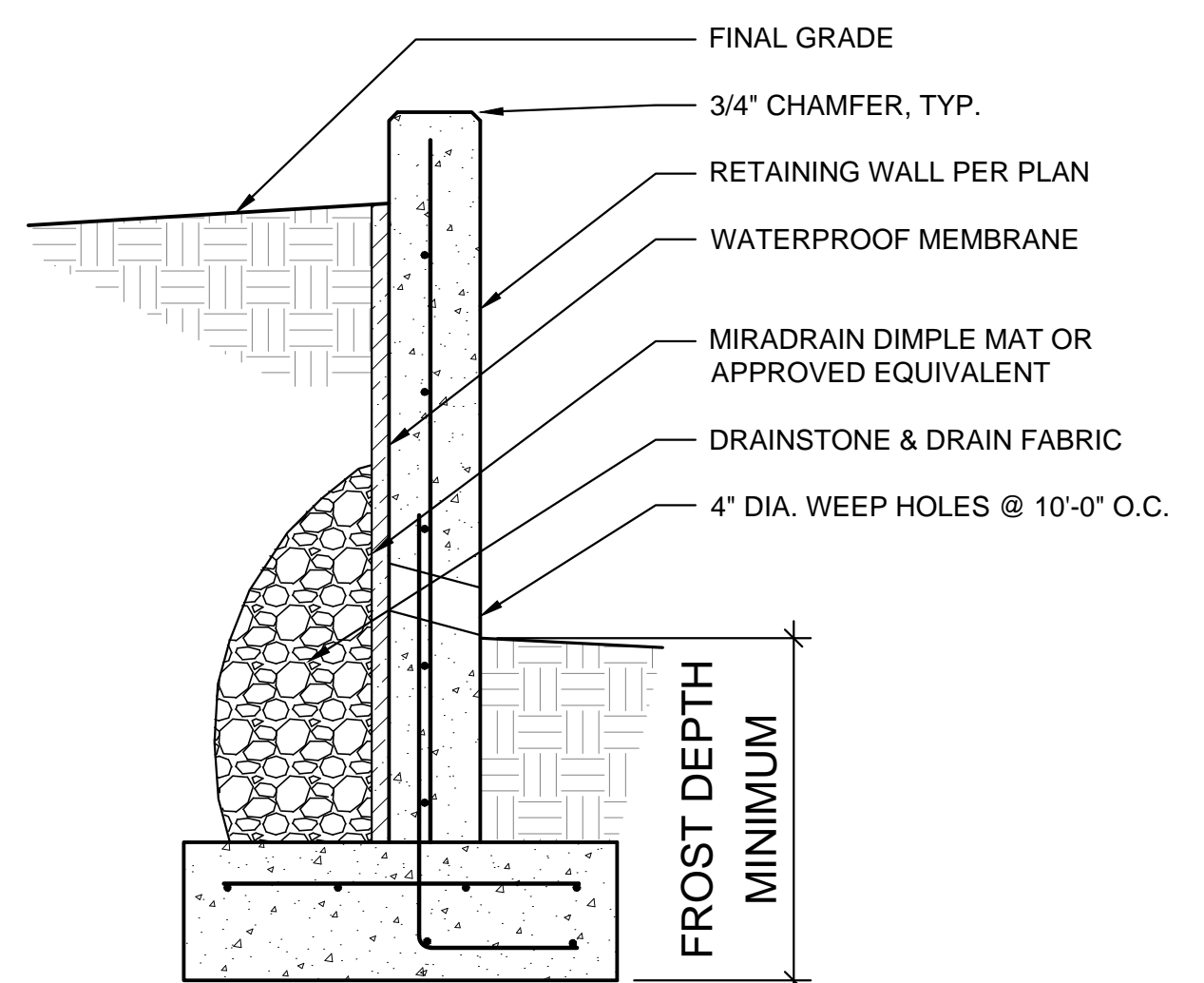
6 TYPICAL MONOLITHIC CONC. STAIRS ON GRADE
S0.4 / 3/4" = 1'-0"



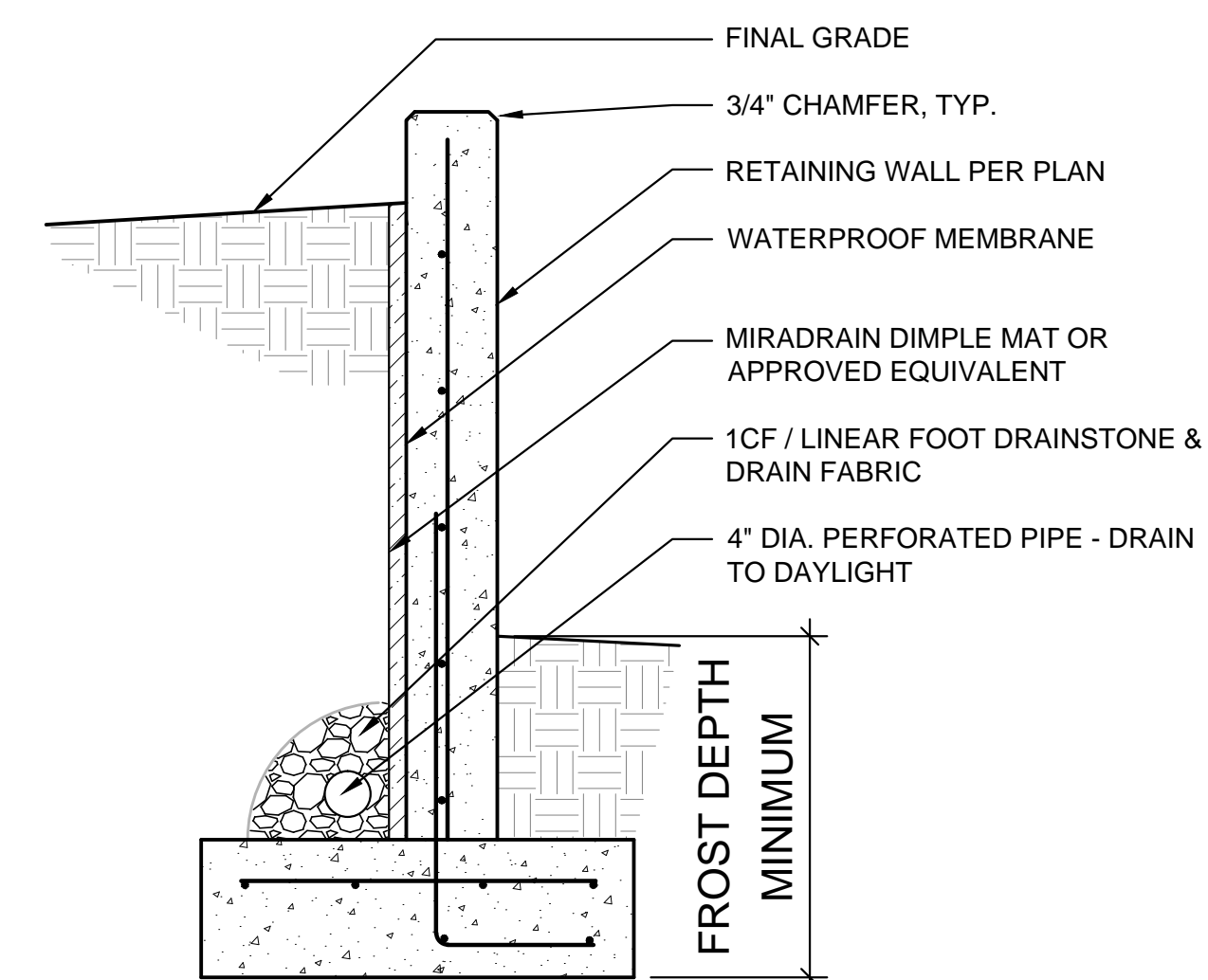
7 TYPICAL STEPPED FOOTING
S0.4 / 3/4" = 1'-0"



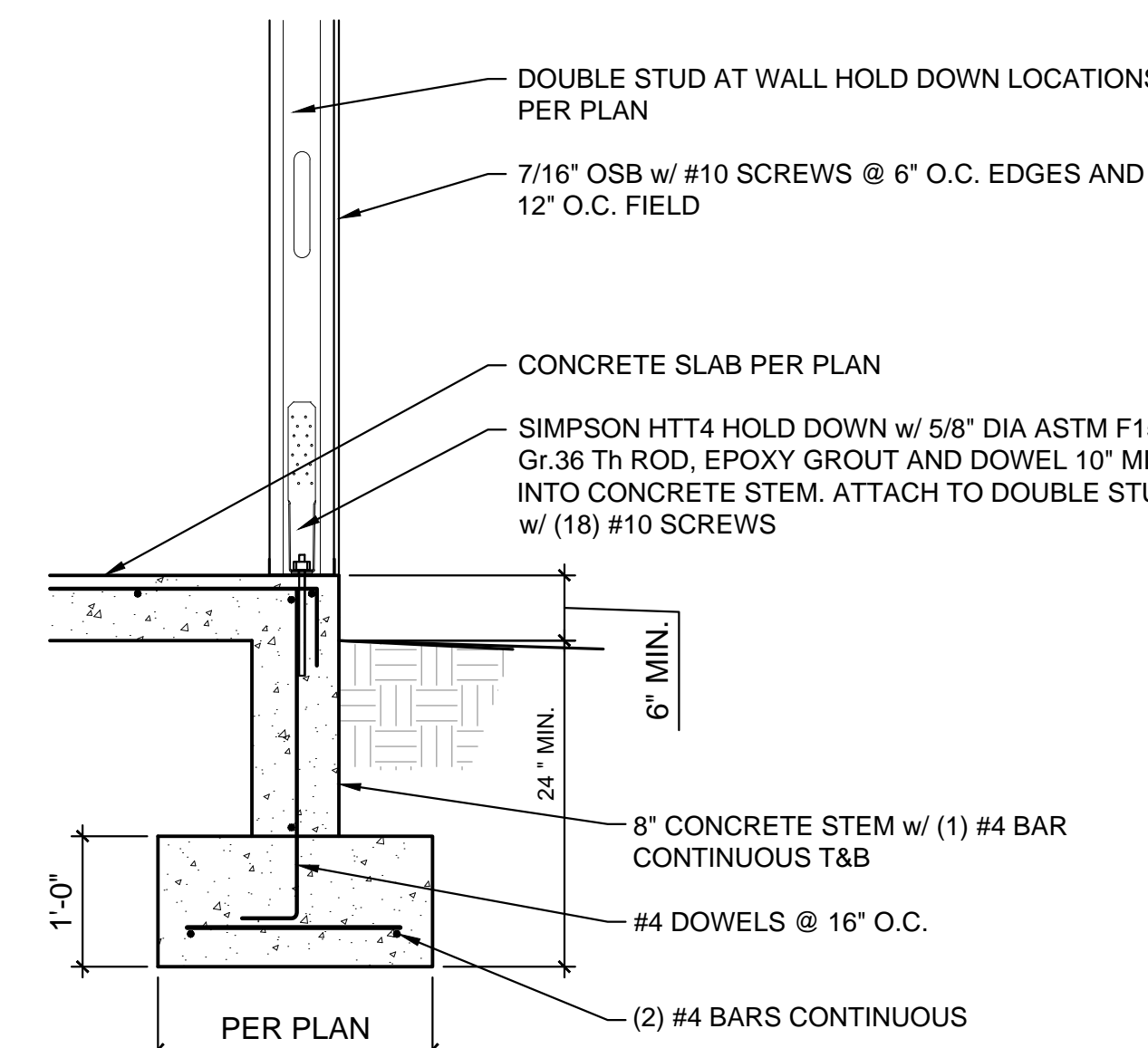
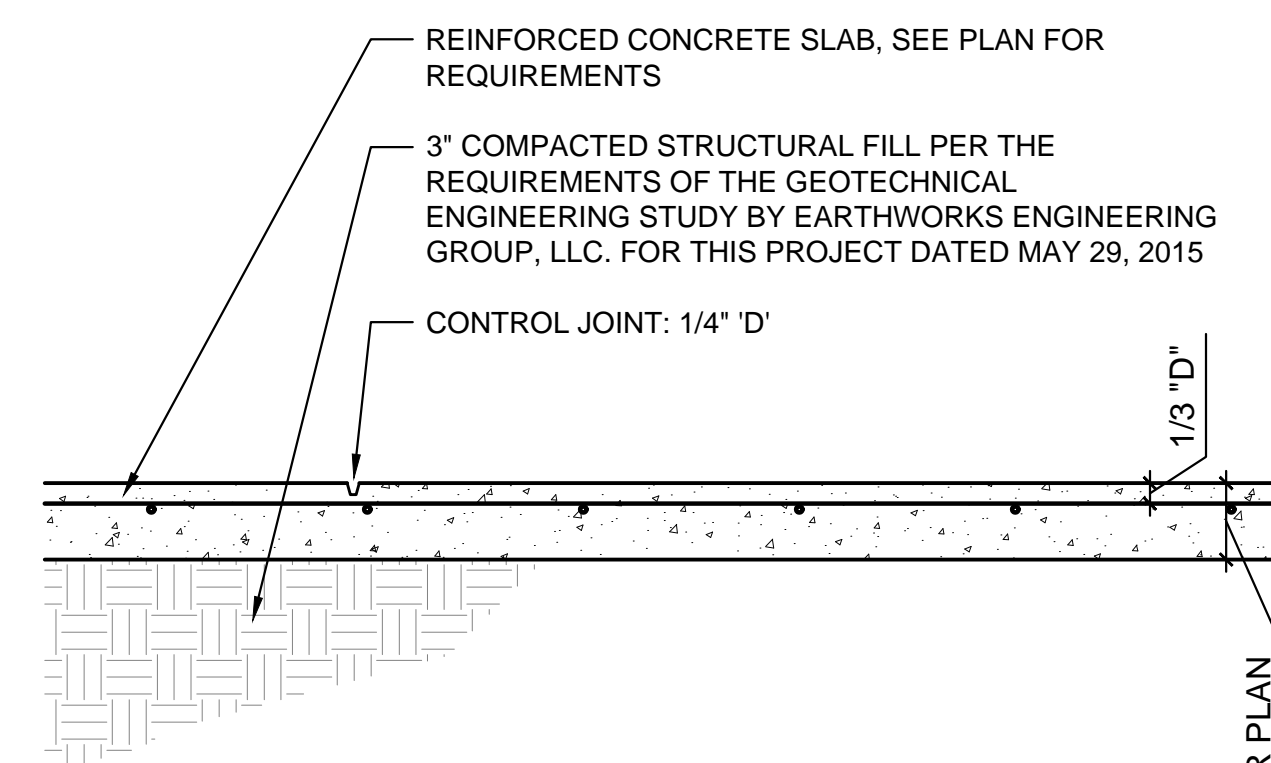
8 TYPICAL DROPPED SLAB
S0.4 / 3/4" = 1'-0" AT SLAB SLOPED TO DRAIN



9 RETAINING WALL DRAINAGE OPTIONS
S0.4 / 3/4" = 1'-0"



10 TYPICAL SLAB-ON-GROUND DETAIL
S0.4 / 3/4" = 1'-0"



11 TYP LIGHT GA. WALL HOLD DOWN
S0.4 / 3/4" = 1'-0"

JACONA COLLECTION CENTER
SANTA FE COUNTY
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TYPICAL DETAILS

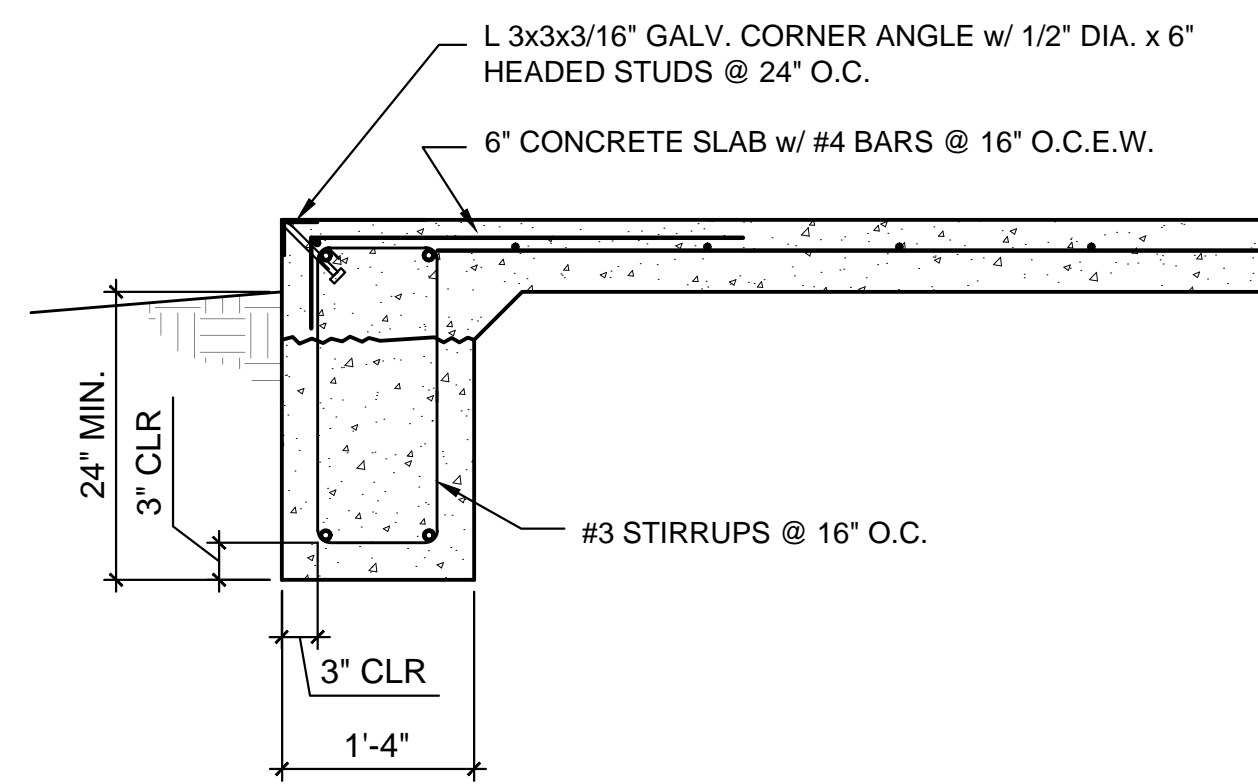
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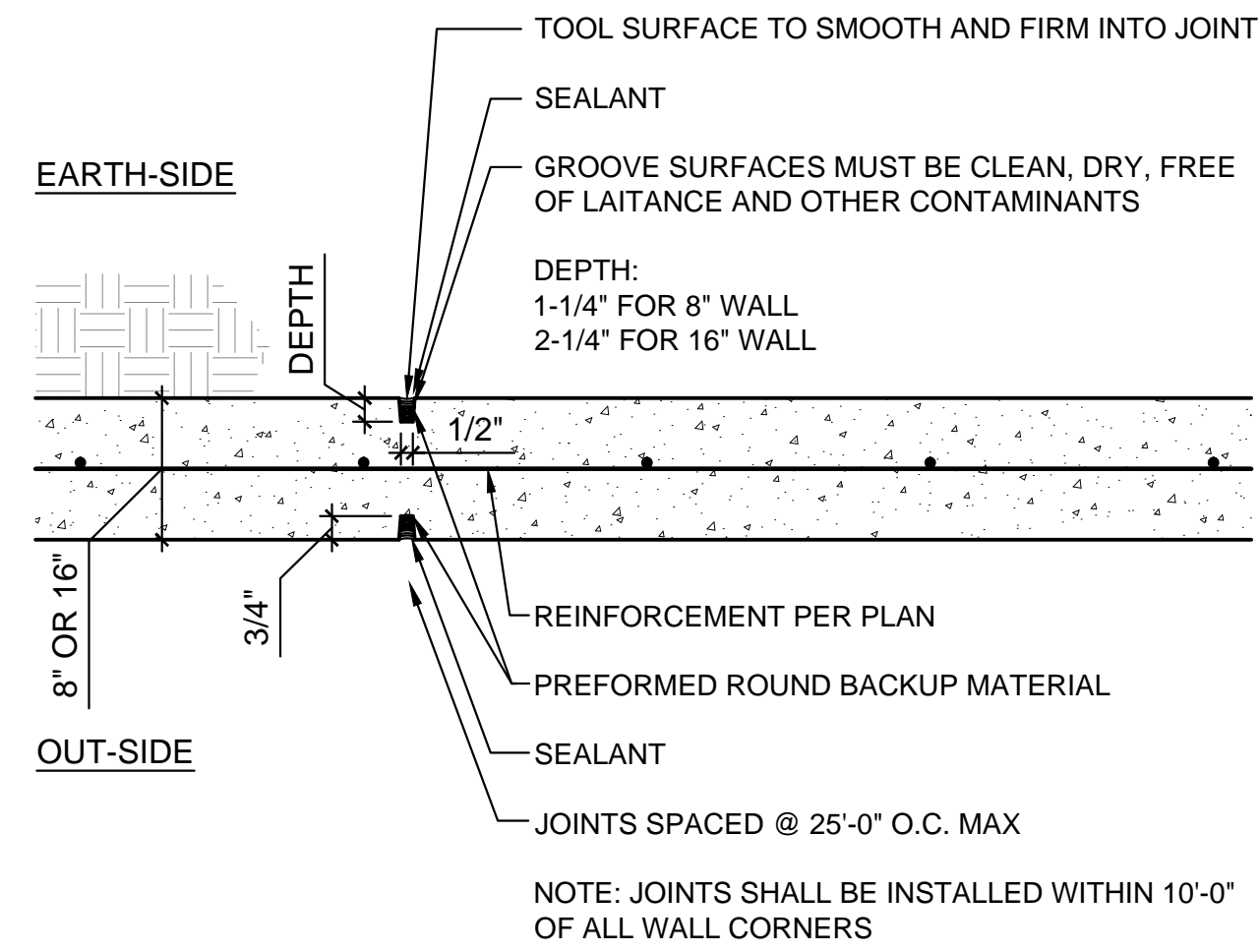
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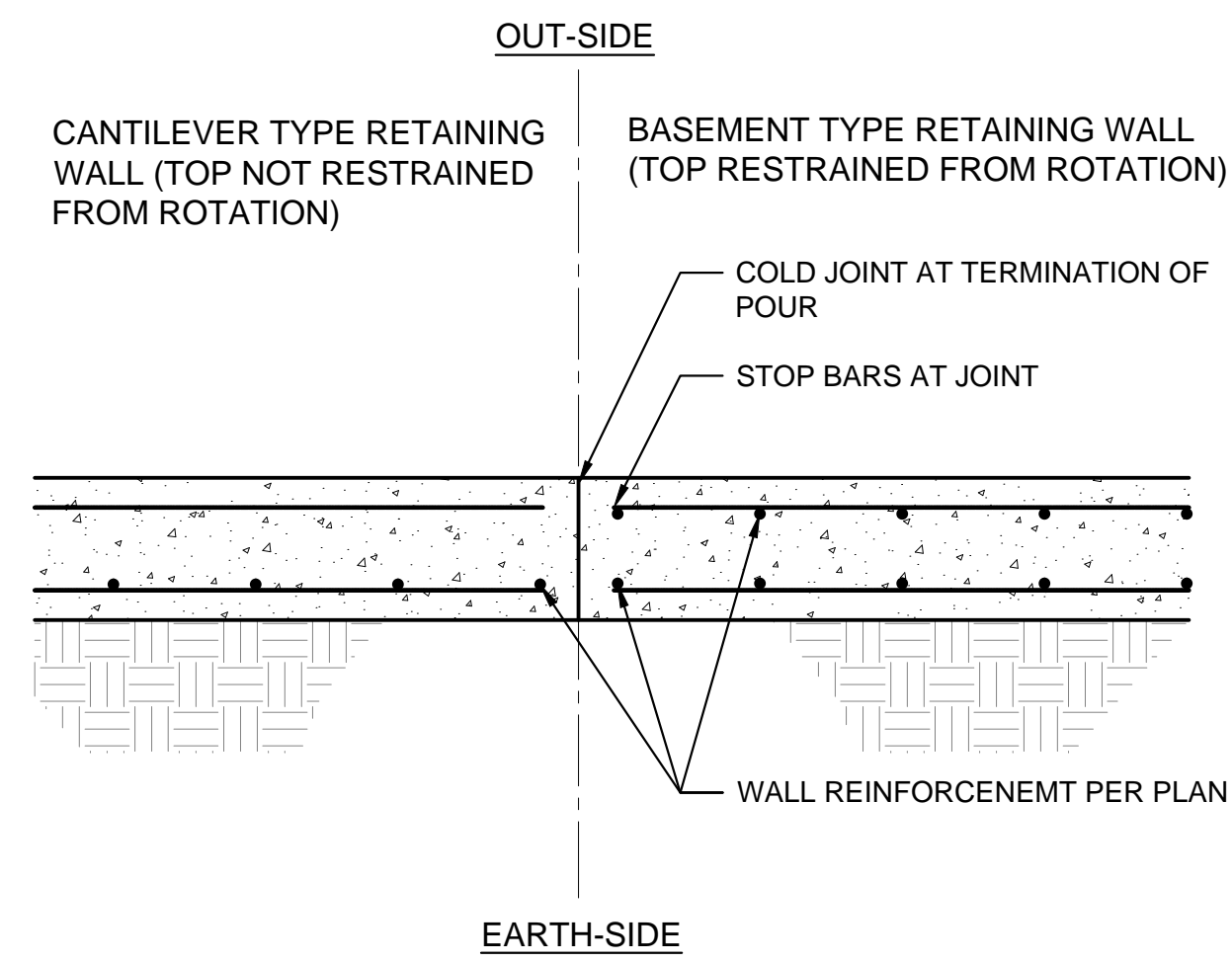
1 TYPICAL CORNER ANGLE AT CONCRETE EDGE
S0.5 / 3/4" = 1'-0"



NOTE: ALL WALLS SHALL CONTAIN WEAKENED PLANE CONTROL JOINTS SPACED @ 25'-0" O.C. MAX AND WITHIN 10'-0" OF ALL WALL CORNERS. CONTRACTOR SHALL SUBMIT TO ARCHITECT FINAL LOCATIONS OF ALL CONTROL JOINTS FOR APPROVAL PRIOR TO CONSTRUCTION

WEAKENED PLANE CONTROL JOINTS

2 TYP WALL JOINTS
S0.5 / 3/4" = 1'-0"



WALL CONSTRUCTION JOINT

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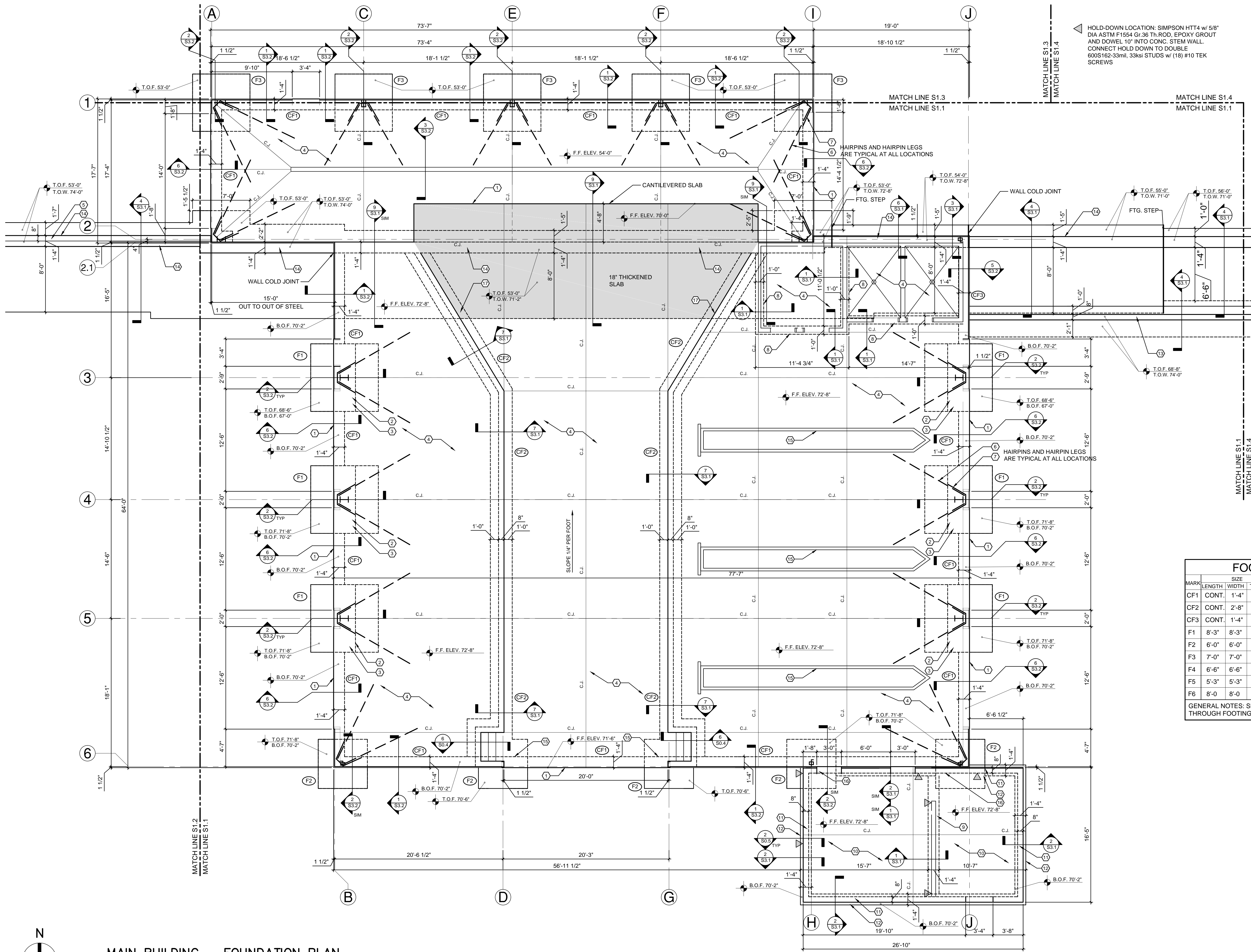
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- ### GENERAL NOTES
- CONTRACTOR TO VERIFY AND COORDINATE ALL OPENINGS, SLAB DEPRESSIONS, AND SLOPES IN CONCRETE FOR DRAINAGE WITH ARCHITECTURAL AND PLUMBING PLANS.
- SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR CORRECT BASE ELEVATION OF FLOOR SLABS FROM SITE BENCH MARK.
- CONTRACTOR TO COORDINATE AND VERIFY METAL BUILDING MANUFACTURER ANCHOR BOLT LOCATIONS AND CENTERLINE OF FOOTINGS PRIOR TO PLACEMENT OF CONCRETE.
- ### KEYED NOTES
- 1/2" x 3 x 3/16" GALV CONC. CORNER ANGLE w/ 1/2" HEADED STUDS @ 24" O.C., TYP. AT ALL LOCATIONS w/ WHEEL LOADS
 - EXTEND TRUNDOWN TO TOP OF FOOTING ELEV.
 - WIDEN STRIP FOOTING @ COLUMN LOCATIONS. ADD (1) #5 CONTINUOUS PER FOOT OF DEPTH
 - 6" CONC. SLAB ON GRADE w/ #4 BARS @ 16" O.C.E.W., 4,000 psi STRENGTH CONC. @ 28 DAYS
 - 8" THICK WALL, EXTEND 16" ABOVE RETAINING HEIGHT, SEE DETAIL 8/S3.1
 - #4 x 8'-6" HAIRPIN LEG
 - #4 HAIRPIN, 12" WIDE BASE MINIMUM, LAP w/ HAIRPIN LEGS 24" MINIMUM
 - 12" WIDE THICKENED SLAB w/ (2) #4 BARS CONTINUOUS
 - 16" WIDE THICKENED SLAB w/ (2) #4 BARS CONTINUOUS
 - 4" CONC. SLAB ON GRADE w/ #3 BARS @ 16" O.C.E.W., 3,000 psi STRENGTH CONC. @ 28 DAYS
 - 8" CONCRETE STEM WALL w/ (1) #4 BAR CONTINUOUS T&B
 - 16" WIDE CONCRETE FOOTING w/ (2) #4 BARS CONTINUOUS
 - 8" THICK CONC RETAINING WALL, SEE SCHED.
 - 16" THICK CONC RETAINING WALL, SEE SCHED.
 - L4 x 4 x 1/2" ANGLES, FASTEN TO FLR w/ 5/8" DIA ANCHOR BOLTS @ 12" O.C. EPOXY GROUT AND DOWEL 3" INTO SLAB, COORDINATE LOCATION w/ ARCH PLANS
 - STEM WALL OVER SPOT FOOTING. VERTICAL DOWELS CAST INTO FOOTING AND EXTEND ABOVE FOR PLACEMENT OF STEM
 - CONTRACTOR SHALL BEND REINFORCING ADJACENT TO STEM WALL TO ENSURE DEVELOPMENT LENGTH FOR CANTILEVER SLAB

FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICK	REINFORCING		REMARKS
				TOP	BOTTOM	
CF1	CONT.	1'-4"	2'-6"	(2) #5 CONT.	(2) #5 CONT.	
CF2	CONT.	2'-8"	1'-0"	(4) #4 CONT.	(4) #4 CONT.	
CF3	CONT.	1'-4"	4'-0"	(3) #5 CONT.	(3) #5 CONT.	REFER TO DETAIL 5/S3.2
F1	8'-3"	8'-3"	1'-6"	(6) #5 E.W.	(6) #5 E.W.	
F2	6'-0"	6'-0"	1'-0"	(6) #5 E.W.	(6) #5 E.W.	
F3	7'-0"	7'-0"	1'-0"	(6) #5 E.W.	(6) #5 E.W.	
F4	6'-6"	6'-6"	1'-0"	(6) #5 E.W.	(6) #5 E.W.	
F5	5'-3"	5'-3"	1'-0"	(5) #5 E.W.	(5) #5 E.W.	
F6	8'-0"	8'-0"	1'-0"	(7) #5 E.W.	(7) #5 E.W.	

GENERAL NOTES: SLAB REINFORCING IS CONTINUOUS THROUGH FOOTINGS, TYP.

MAIN BUILDING - FOUNDATION PLAN
3/16" = 1'-0"

JACONA COLLECTION CENTER
SANTA FE COUNTY
Santa Fe, New Mexico

Revisions

FOUNDATION PLAN

LUCHINI TRUJILLO
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ENGINEER'S SEAL
Eric D. Trujillo, PE
New Mexico
License Number
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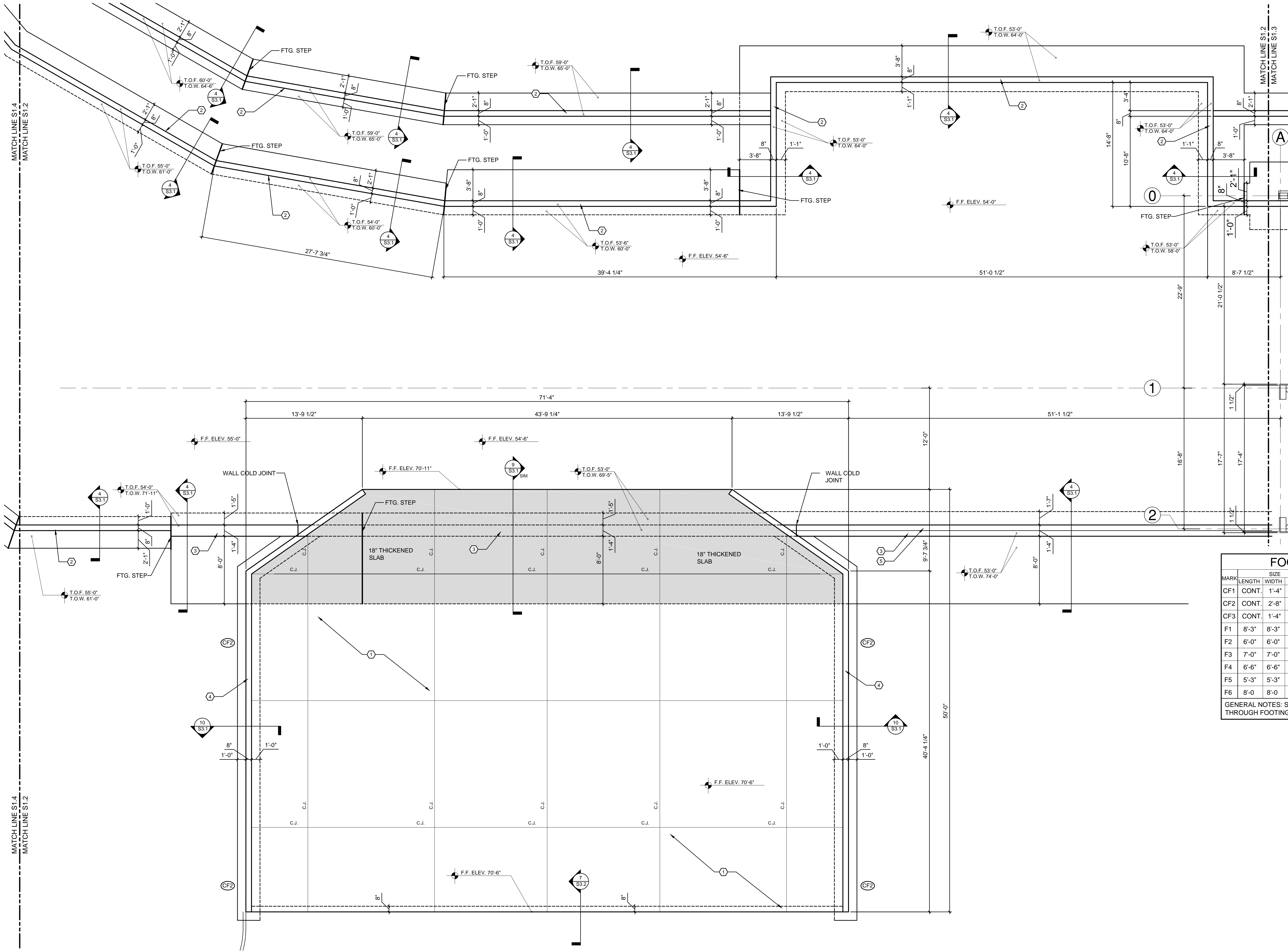
LTSE Job # 1152
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GENERAL NOTES

CONTRACTOR TO VERIFY AND COORDINATE ALL OPENINGS, SLAB DEPRESSIONS, AND SLOPES IN CONCRETE FOR DRAINAGE WITH ARCHITECTURAL AND PLUMBING PLANS.

SEE ARCHITECTURALS AND CIVIL DRAWINGS FOR CORRECT BASE ELEVATION OF FLOOR SLABS FROM SITE BENCH MARK.

CONTRACTOR TO COORDINATE AND VERIFY METAL BUILDING MANUFACTURER ANCHOR BOLT LOCATIONS AND CENTERLINE OF FOOTINGS PRIOR TO PLACEMENT OF CONCRETE.

KEYED NOTES

- 8" CONC. SLAB ON GRADE w/ #4 BARS @ 12" O.C.E.W. 4,000 psi CONCRETE @ 28 DAYS, AIR ENTRAIN 6%
- 8" THICK CONC RETAINING WALL, SEE SCHED.
- 16" THICK CONC RETAINING WALL, SEE SCHED.
- 8" CONC. YARD WALL w/ #4 BARS @ 12" O.C. VERTICAL AND HORIZONTAL
- 8" THICK WALL, EXTEND 16" ABOVE RETAINING HEIGHT, SEE DETAIL 8/S3.1

FOOTING SCHEDULE

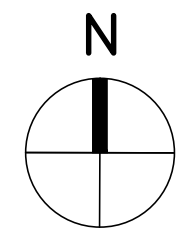
MARK	SIZE			REINFORCING		REMARKS
	LENGTH	WIDTH	THICK	TOP	BOTTOM	
CF1	CONC.	1'-4"	2'-6"	(2) #5 CONT.	(2) #5 CONT.	
CF2	CONC.	2'-8"	1'-0"	(4) #4 CONT.		
CF3	CONC.	1'-4"	4'-0"	(3) #5 CONT.	(3) #5 CONT.	REFER TO DETAIL 5/S3.2
F1	8'-3"	8'-3"	1'-6"	(6) #5 E.W.	(6) #5 E.W.	
F2	6'-0"	6'-0"	1'-0"	(6) #5 E.W.		
F3	7'-0"	7'-0"	1'-0"	(6) #5 E.W.		
F4	6'-6"	6'-6"	1'-0"	(6) #5 E.W.		
F5	5'-3"	5'-3"	1'-0"	(5) #5 E.W.		
F6	8'-0"	8'-0"	1'-0"	(7) #5 E.W.		

GENERAL NOTES: SLAB REINFORCING IS CONTINUOUS THROUGH FOOTINGS, TYP.

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Santa Fe, New Mexico

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FOUNDATION PLAN



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

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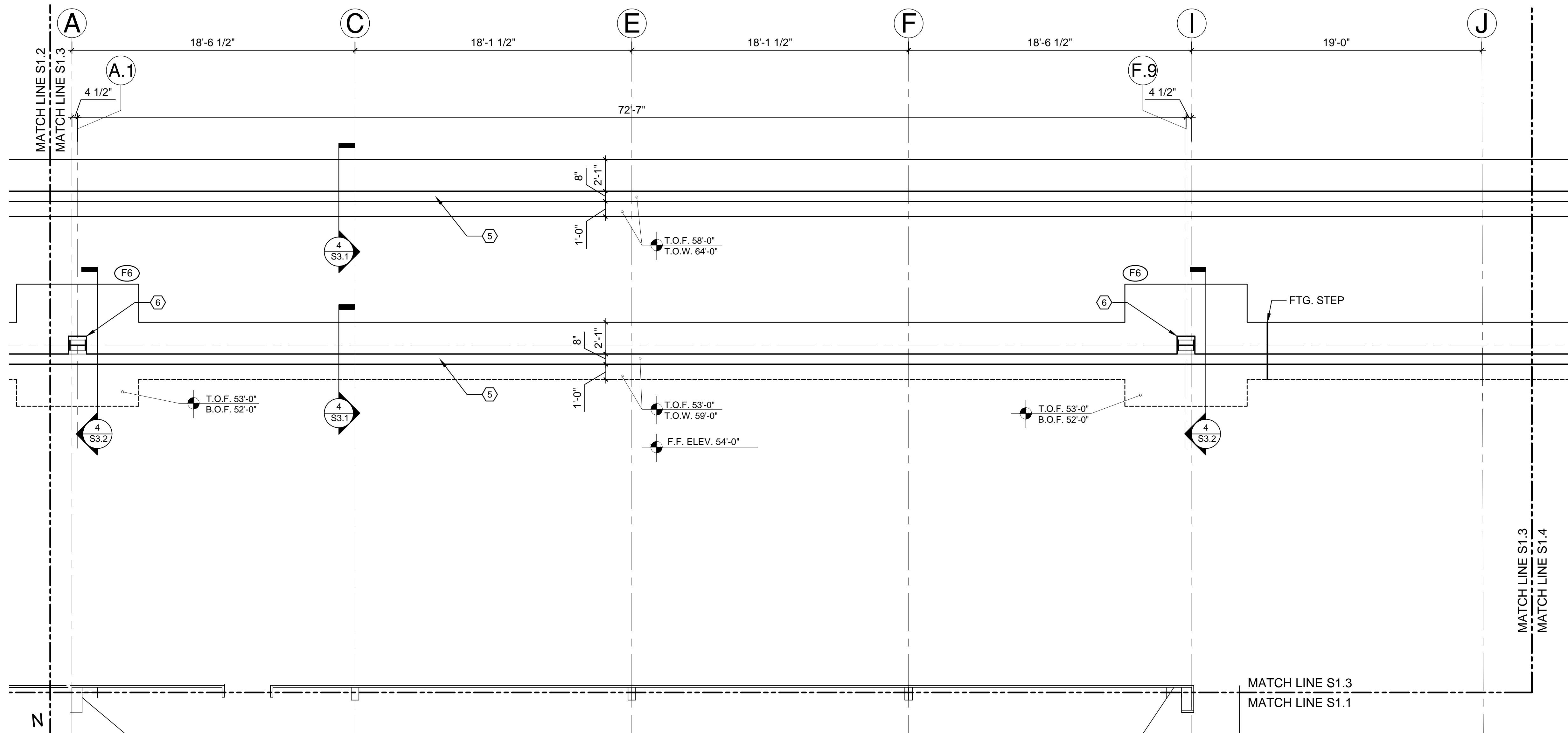
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GENERAL NOTES

CONTRACTOR TO VERIFY AND COORDINATE ALL OPENINGS, SLAB DEPRESSIONS, AND SLOPES IN CONCRETE FOR DRAINAGE WITH ARCHITECTURAL AND PLUMBING PLANS.

SEE ARCHITECTURALS AND CIVIL DRAWINGS FOR CORRECT BASE ELEVATION OF FLOOR SLABS FROM SITE BENCH MARK.

CONTRACTOR TO COORDINATE AND VERIFY METAL BUILDING MANUFACTURER ANCHOR BOLT LOCATIONS AND CENTERLINE OF FOOTINGS PRIOR TO PLACEMENT OF CONCRETE.

KEYED NOTES

① 16" WIDE TURNED DOWN SLAB EDGE w/ (2) #5 CONTINUOUS T&B

② 6" CONC. SLAB ON GRADE w/ #4 BARS @ 12" O.C.E.W. 4,000 psi CONCRETE @ 28 DAYS, AIR ENTRAIN 6%

③ #4 x 20'-0" HAIRPIN LEG, 12" WIDE BASE MIN.

④ WIDEN STRIP FOOTING @ COLUMN LOCATIONS

⑤ 8" TH CONCRETE RETAINING WALL, SEE SCHED.

⑥ 14' x 14' CONCRETE PIER, SEE DET. 3/S3.2

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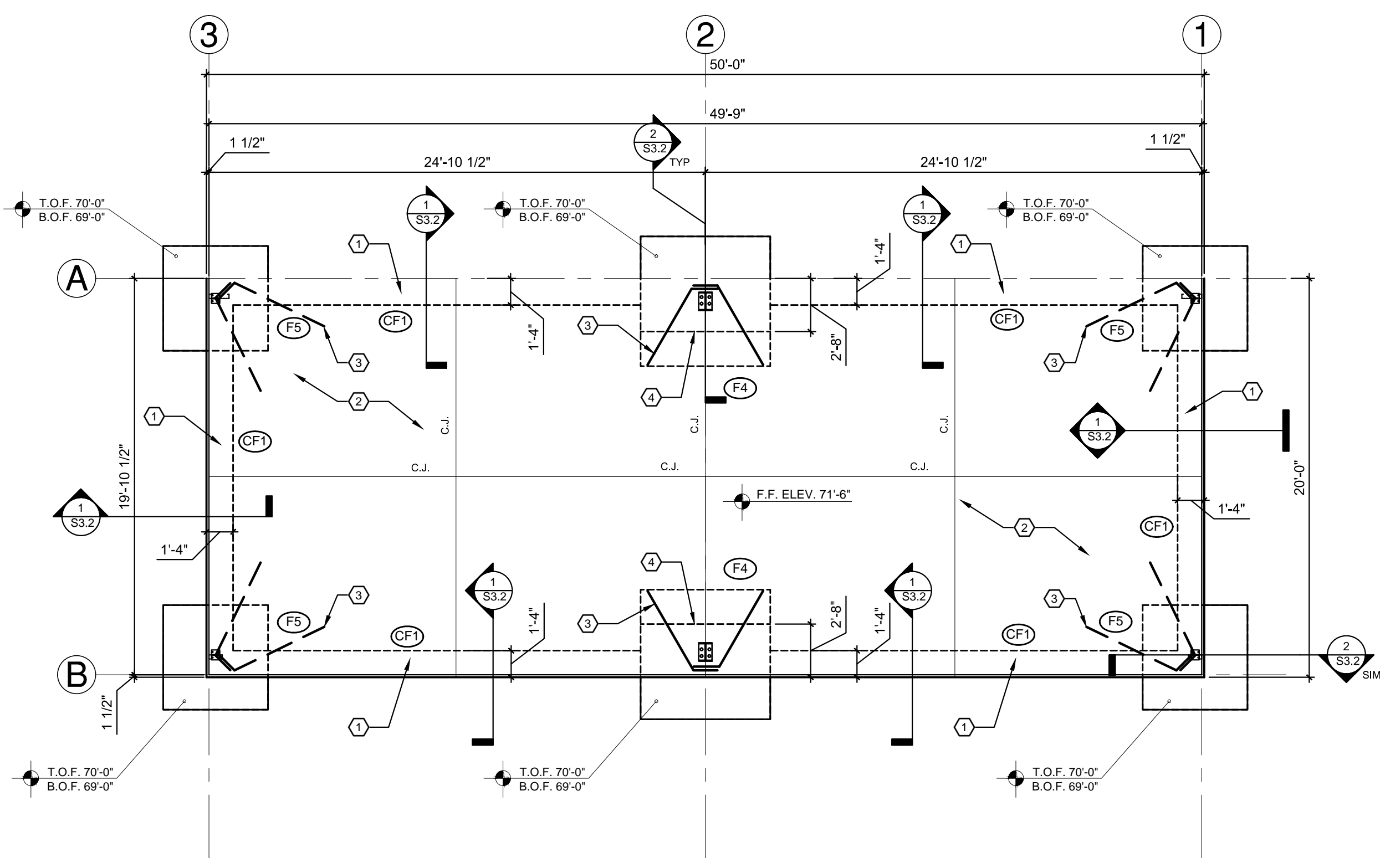
② MAIN BUILDING -- FOUNDATION PLAN
3/16" = 1'-0"

FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICK	REINFORCING		REMARKS
				TOP	BOTTOM	
CF1	CONT.	1'-4"	2'-6"	(2) #5 CONT.	(2) #5 CONT.	
CF2	CONT.	2'-8"	1'-0"		(4) #4 CONT.	
CF3	CONT.	1'-4"	4'-0"	(3) #5 CONT.	(3) #5 CONT.	REFER TO DETAIL 5/S3.2
F1	8'-3"	8'-3"	1'-6"	(6) #5 E.W.	(6) #5 E.W.	
F2	6'-0"	6'-0"	1'-0"	(6) #5 E.W.	(6) #5 E.W.	
F3	7'-0"	7'-0"	1'-0"	(6) #5 E.W.	(6) #5 E.W.	
F4	6'-6"	6'-6"	1'-0"	(6) #5 E.W.	(6) #5 E.W.	
F5	5'-3"	5'-3"	1'-0"	(5) #5 E.W.	(5) #5 E.W.	
F6	8'-0"	8'-0"	1'-0"	(7) #5 E.W.	(7) #5 E.W.	

GENERAL NOTES: SLAB REINFORCING IS CONTINUOUS THROUGH FOOTINGS, TYP.

FOUNDATION PLAN



① REUSE AREA -- FOUNDATION PLAN
3/16" = 1'-0"

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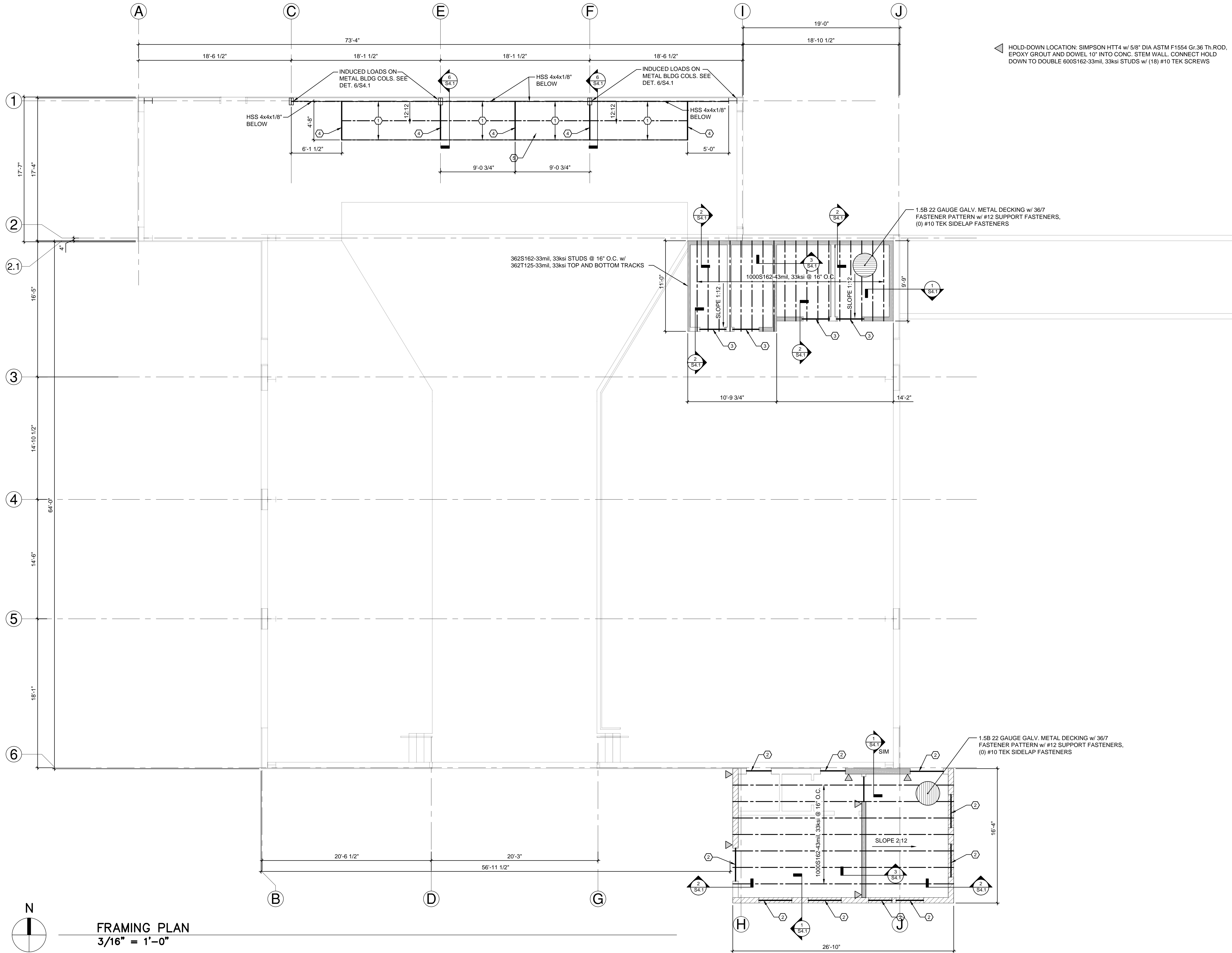
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WALL TYPES LEGEND	
	SHEAR WALLS: 5/8" GYPBOARD ONE SIDE, w/ #10 TEK @ 7" O.C. EDGES, AND FIELD. DOUBLE STUD AT WALL ENDS. GYPBOARD PANELS TO BE PLACED PERPENDICULAR TO FRAMING MEMBERS w/ STRAP BLOCKING BEHIND HORIZONTAL JOINT AND w/ SOLID BLOCKING BETWEEN FIRST TWO END STUDS ALL PANEL EDGES TO BE BLOCKED.
	SHEAR WALLS: 7/16" OSB w/ #10 TEK SCREWS @ 6" O.C. EDGES, 12" O.C. FIELD
	ALL WALLS (UON): 600S162-33mil, 33ksi STUDS @ 16" O.C. w/ 600T200-43mil, 33ksi TOP PLATE AND 600T125-33mil, 33ksi BOTTOM PLATE UNO. SIMPSON PDP-150 @ 12" O.C. SILL ANCHORS

KEYED NOTES	
1	HSS 3x3x1/8" JOISTS @ 3'-5" OC ALONG LENGTH OF PLATE
2	HEADER: (2) 600S162-33mil, 33ksi VERTICAL AND (2) 600T125-33mil, 33ksi HORIZONTAL, 600T125-33mil, 33ksi SILL, WHERE APPLICABLE 600S200-33mil, 33ksi JAMB. SEE DET. 4/S4.1
3	HEADER: (2) 600S162-33mil, 33ksi VERTICAL AND (2) 600T125-33mil, 33ksi HORIZONTAL, 600S162-33mil, 33ksi JAMB. SEE DET. 4/S4.1
4	L4x4x1/4" KICKERS BELOW AND HSS 3x4x1/8" FLATWISE BEAM ABOVE
5	1/4" STEEL PLATE

◀ HOLD-DOWN LOCATION: SIMPSON HTT4 w/ 5/8" DIA ASTM F1554 Gr.36 Th. ROD, EPOXY GROUT AND DOWEL 10" INTO CONC. STEM WALL. CONNECT HOLD DOWN TO DOUBLE 600S162-33mil, 33ksi STUDS w/ (18) #10 TEK SCREWS

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FRAMING PLAN

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

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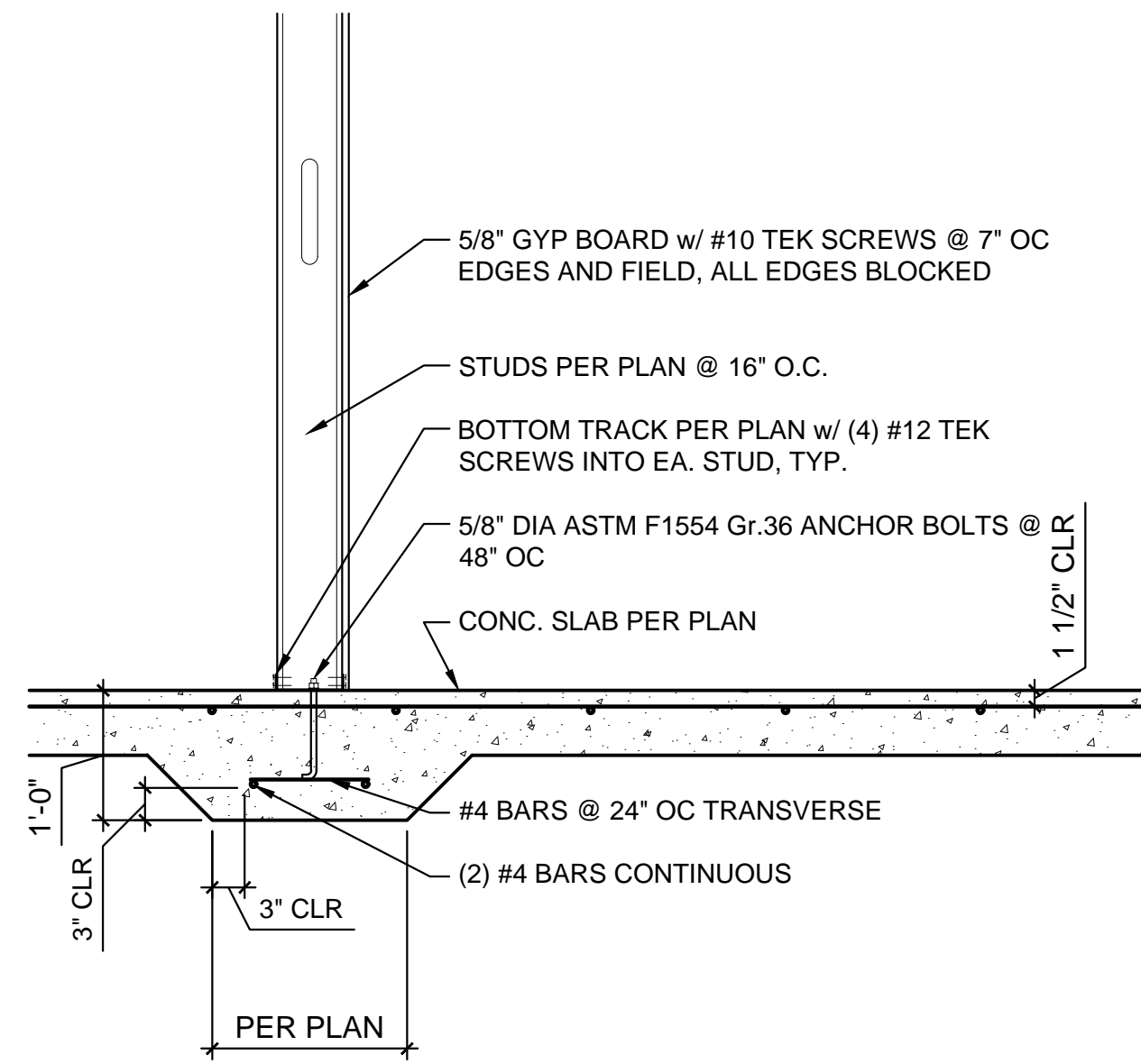
ENGINEER'S SEAL
 Eric D. Trujillo, PE
 New Mexico
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LTSE Job # 1152

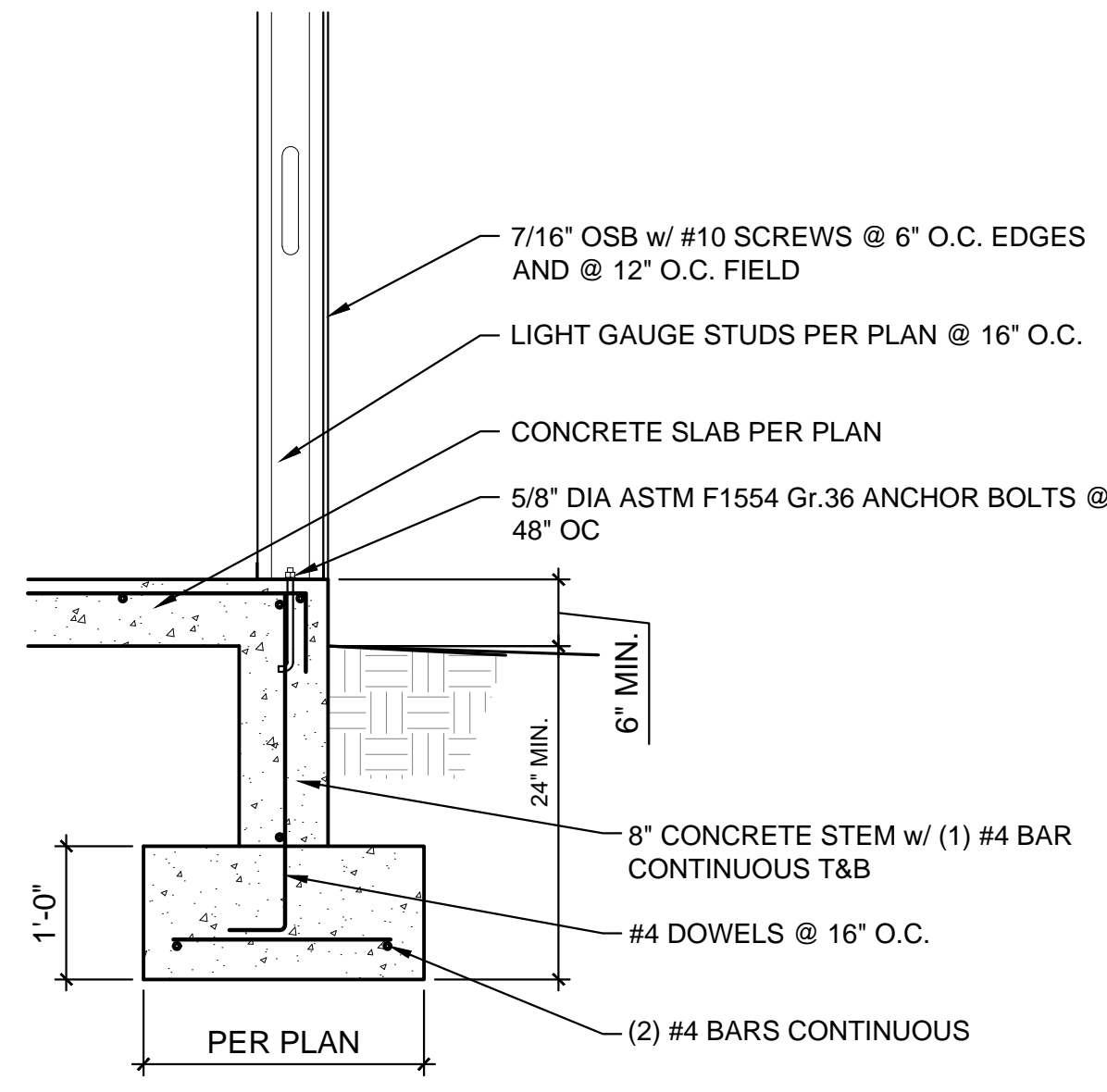
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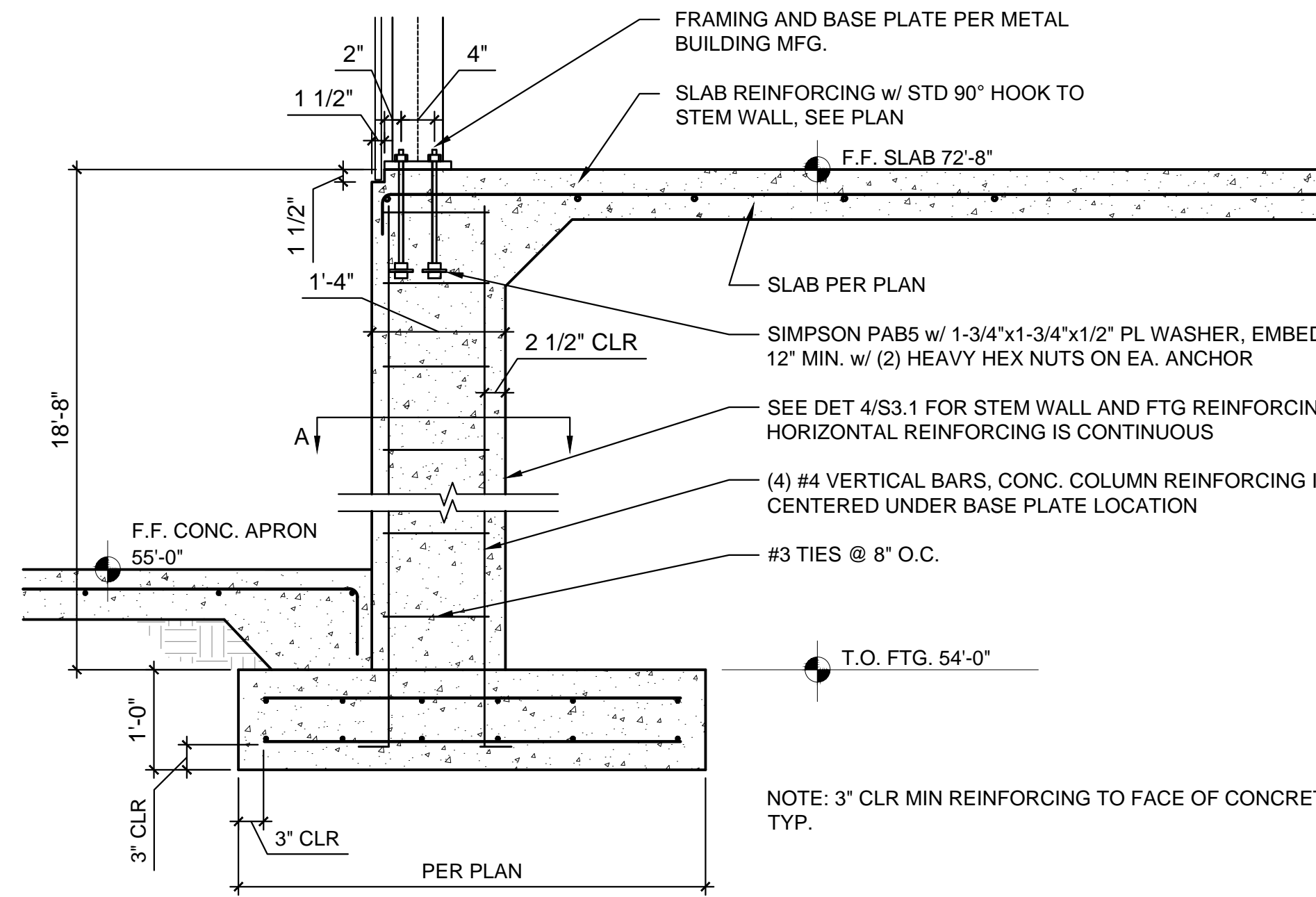
S2.1
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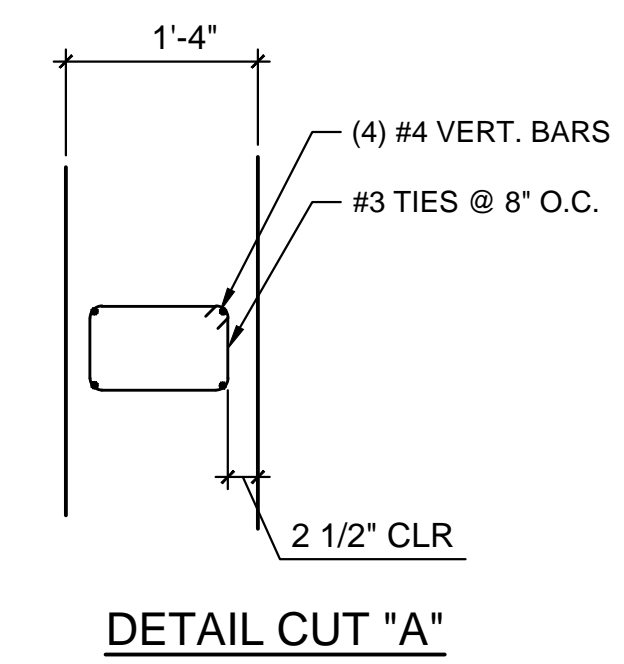
1 TYP INT. LIGHT GA. SHEAR WALL TO CONC SLAB
S3.1 3/4" = 1'-0"



2 TYP EXT. LIGHT GA. WALL TO EXT. STRIP FOOTING
S3.1 3/4" = 1'-0"



3 COLUMN TO RETAINING WALL CONDITION
S3.1 3/4" = 1'-0"



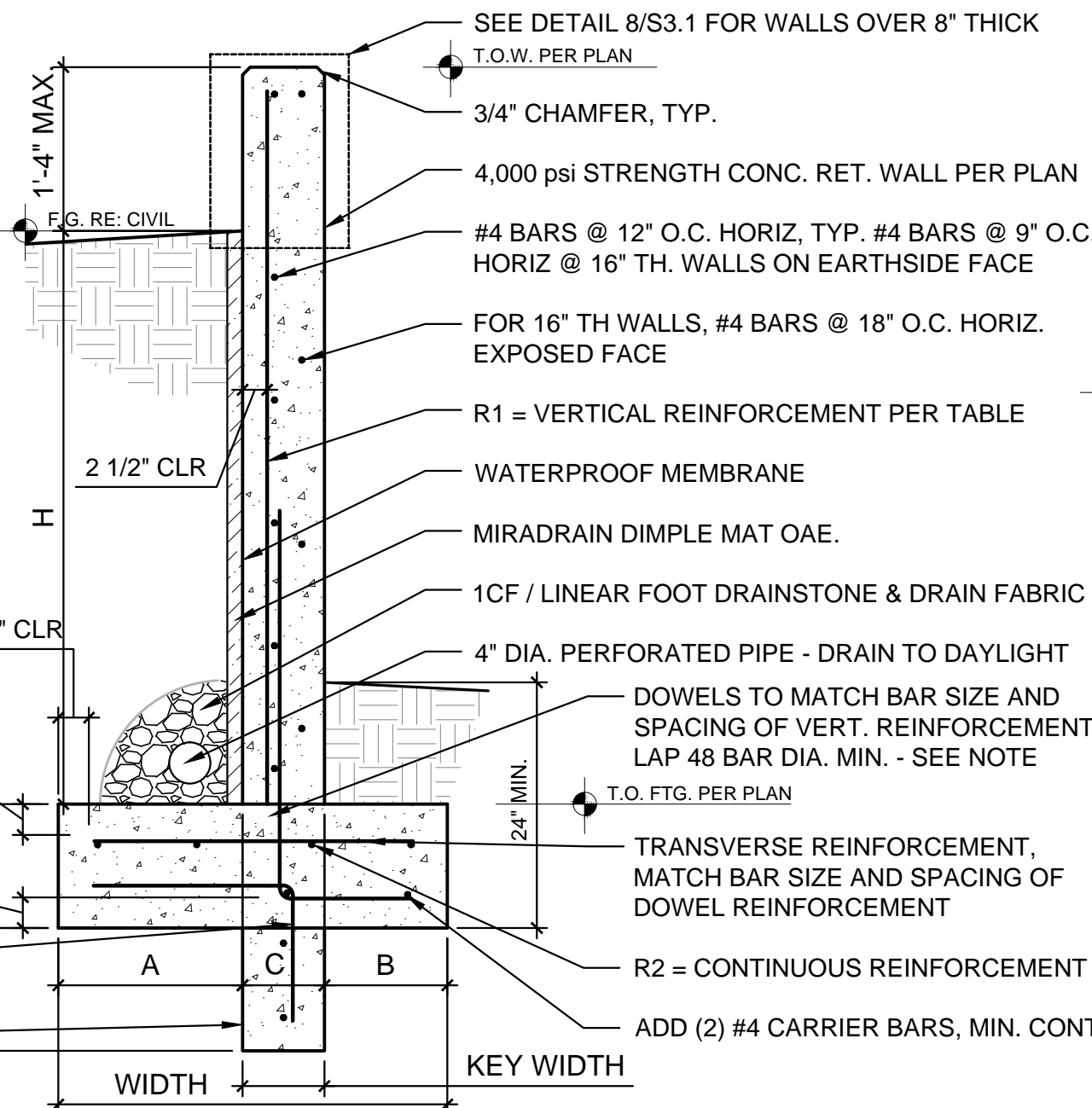
DETAIL CUT "A"

RETAINING WALLS									
H	A	B	C	WIDTH	R1	R2			
3' MAX	0'-8"	0'-6"	0'-8"	1'-10"	#4 @ 12" O.C.	(3) #4	KEY DIMENSION		
6' MAX	2'-1"	1'-0"	0'-8"	3'-9"	#4 @ 12" O.C.	(5) #4	DEPTH	WIDTH	
8' MAX	3'-8"	1'-0"	0'-8"	5'-4"	#5 @ 12" O.C.	(5) #5			
11' MAX	3'-8"	1'-1"	0'-8"	5'-5"	#5 @ 6" O.C.	(5) #5	1'-0"	0'-8"	
16' MAX	6'-6"	1'-0"	1'-4"	8'-10"	#6 @ 8" O.C.	(6) #6	1'-0"	1'-0"	
19' MAX	8'-0"	1'-5"	1'-4"	10'-9"	#6 @ 9" O.C.	(7) #6	1'-6"	1'-0"	
21' MAX	8'-0"	1'-7"	1'-4"	10'-11"	#6 @ 9" O.C.	(7) #6	1'-6"	1'-0"	

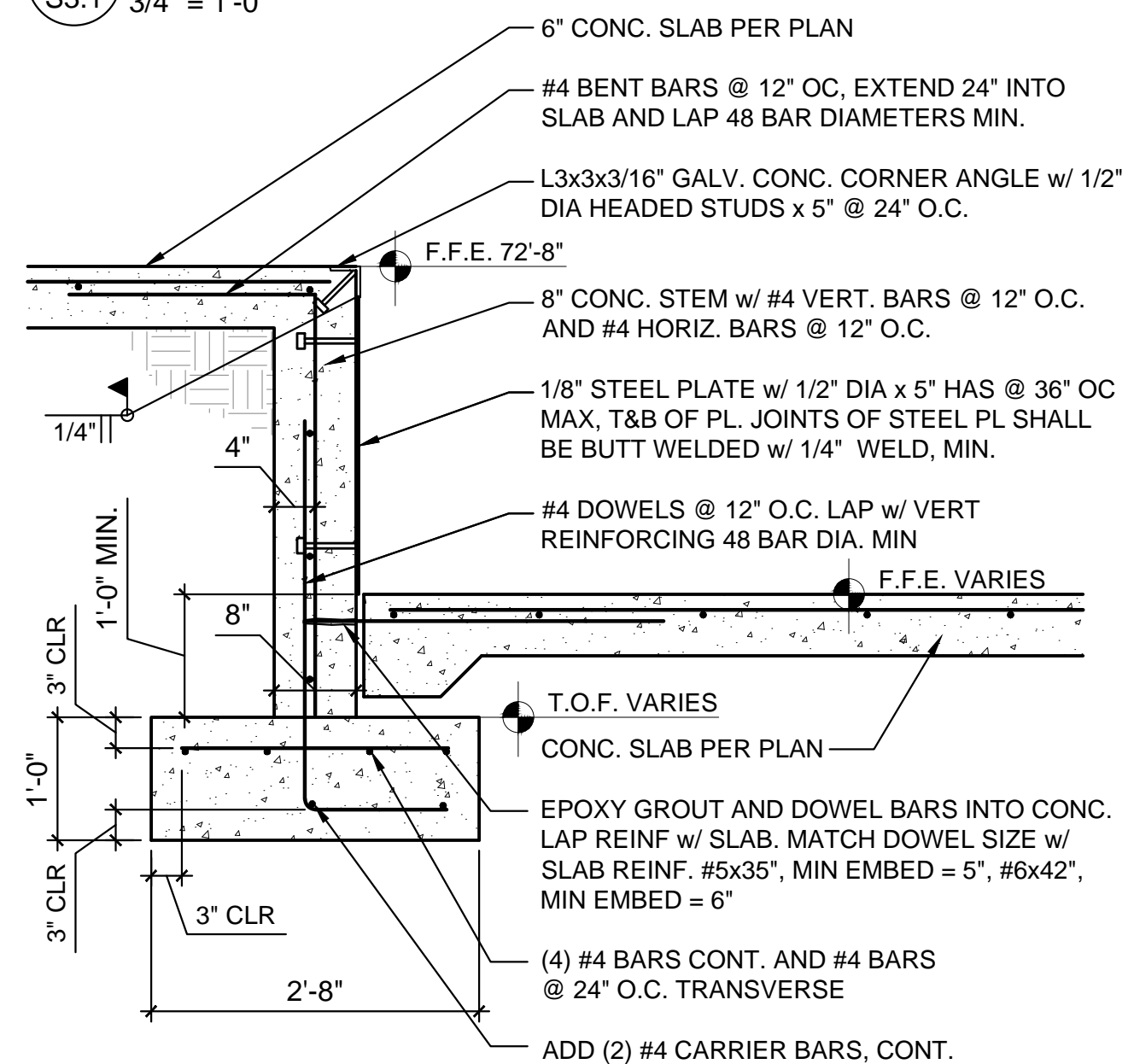
NOTE:
FOR RET. HEIGHTS OVER 10'-0" UP TO 15'-0" MAX. PLACE DOWELS @ 4' O.C.
FOR RET. HEIGHTS OVER 15'-0" UP TO 21'-0" MAX. PLACE DOWELS AT 3' O.C.
EXTEND ALL DOWELS 4'-6" MIN. INTO STEM WALLS OVER 10'-0"

FOOTING KEY REINFORCEMENT, WHERE APPLICABLE: #4 BENT BARS @ 12" O.C. AND (2) #4 HORIZONTAL BARS CONTINUOUS. MAINTAIN 3" CLEARANCE FROM REINFORCING TO OUTSIDE FACE OF CONCRETE

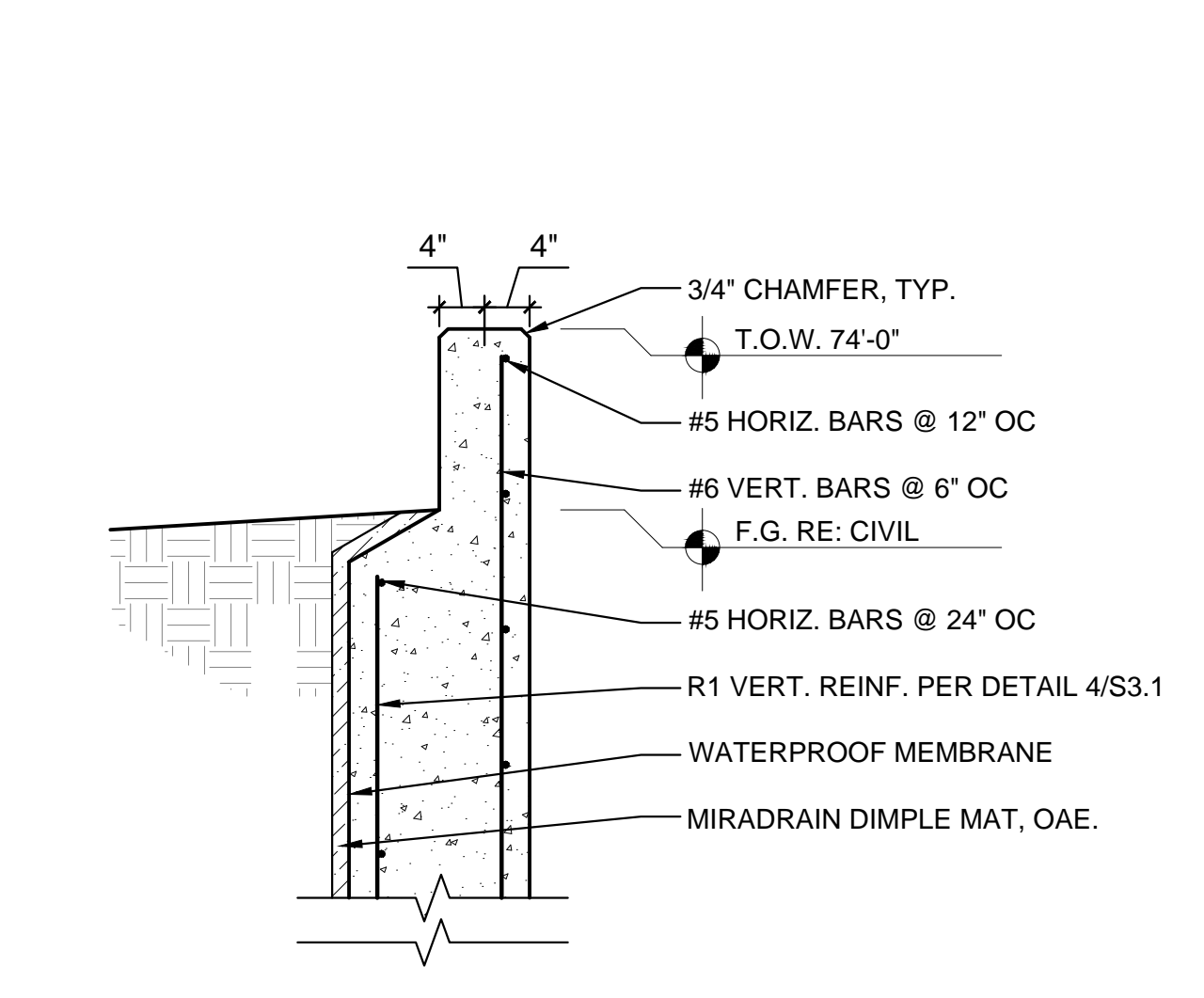
FOOTING KEY, WHERE APPLICABLE, SEE SCHEDULE



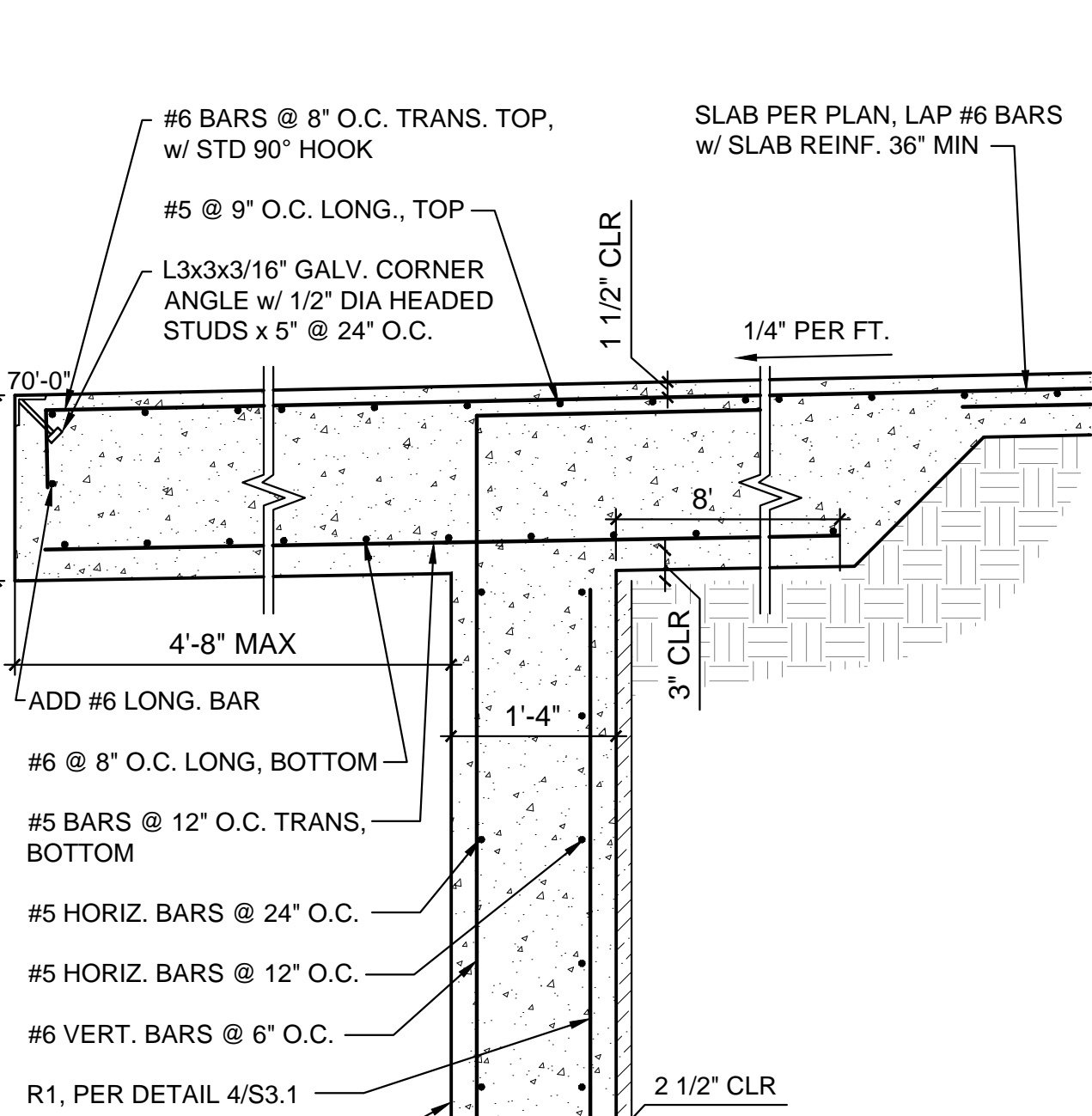
4 CONCRETE RETAINING WALLS
S3.1 3/4" = 1'-0"



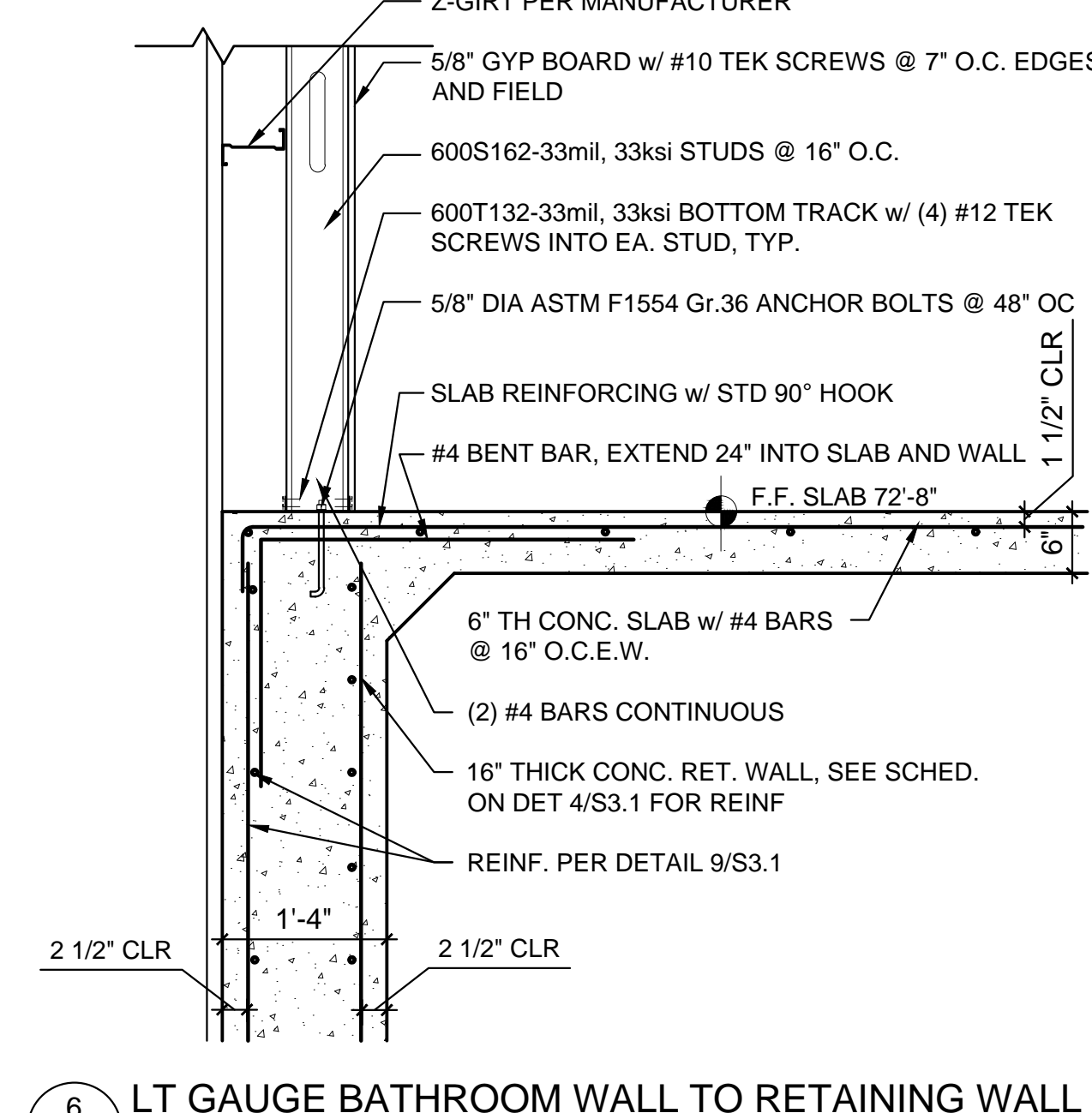
7 SLAB TURNDOWN AT TIP FLOOR
S3.1 3/4" = 1'-0"



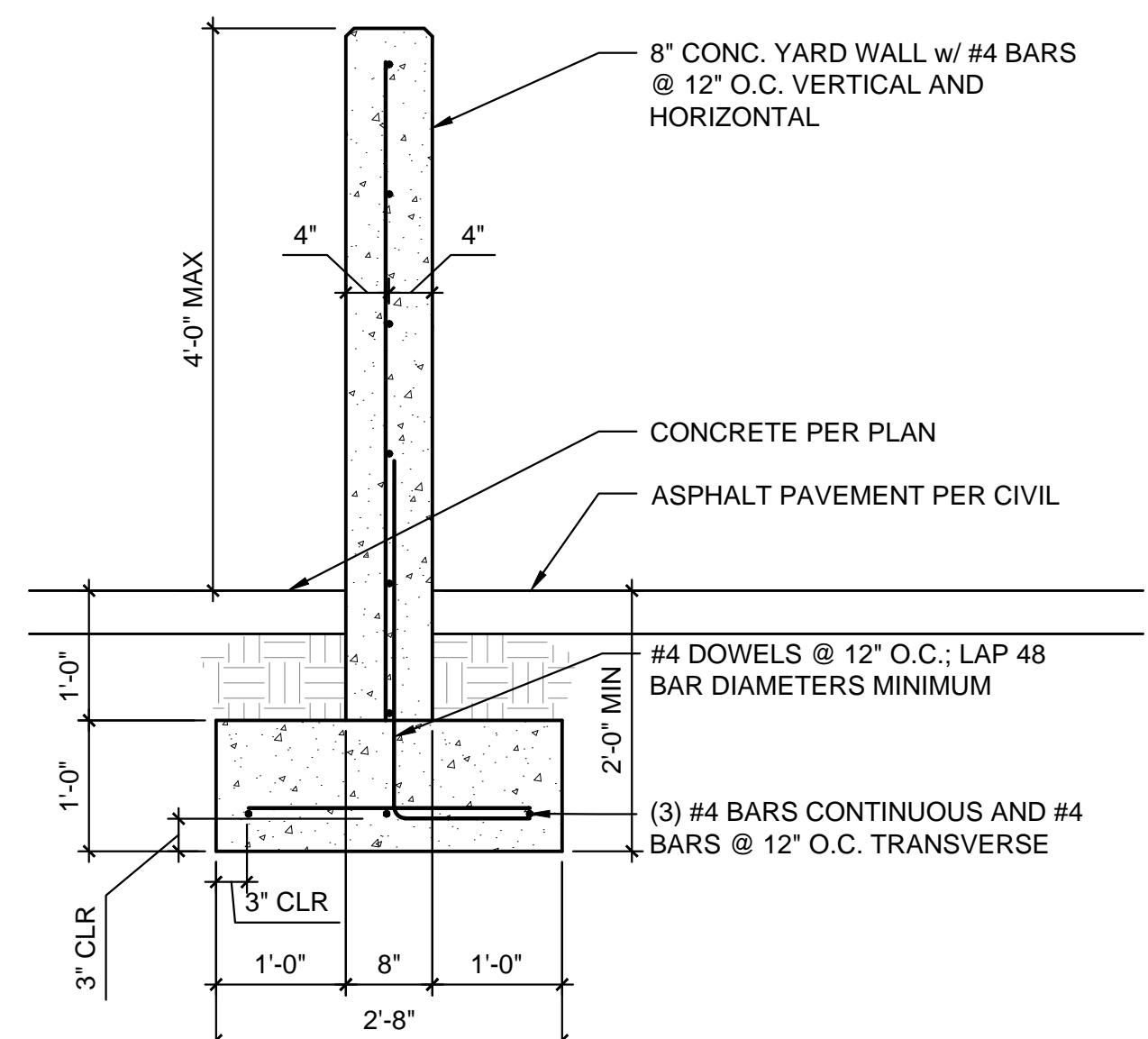
8 RETAINING WALL EXTENSION
S3.1 3/4" = 1'-0"



9 CANTILEVERED SLAB @ TIP FLOOR
S3.1 3/4" = 1'-0"



6 LT GAUGE BATHROOM WALL TO RETAINING WALL
S3.1 3/4" = 1'-0"



10 8" CONCRETE YARD WALL
S3.1 3/4" = 1'-0"

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Santa Fe, New Mexico

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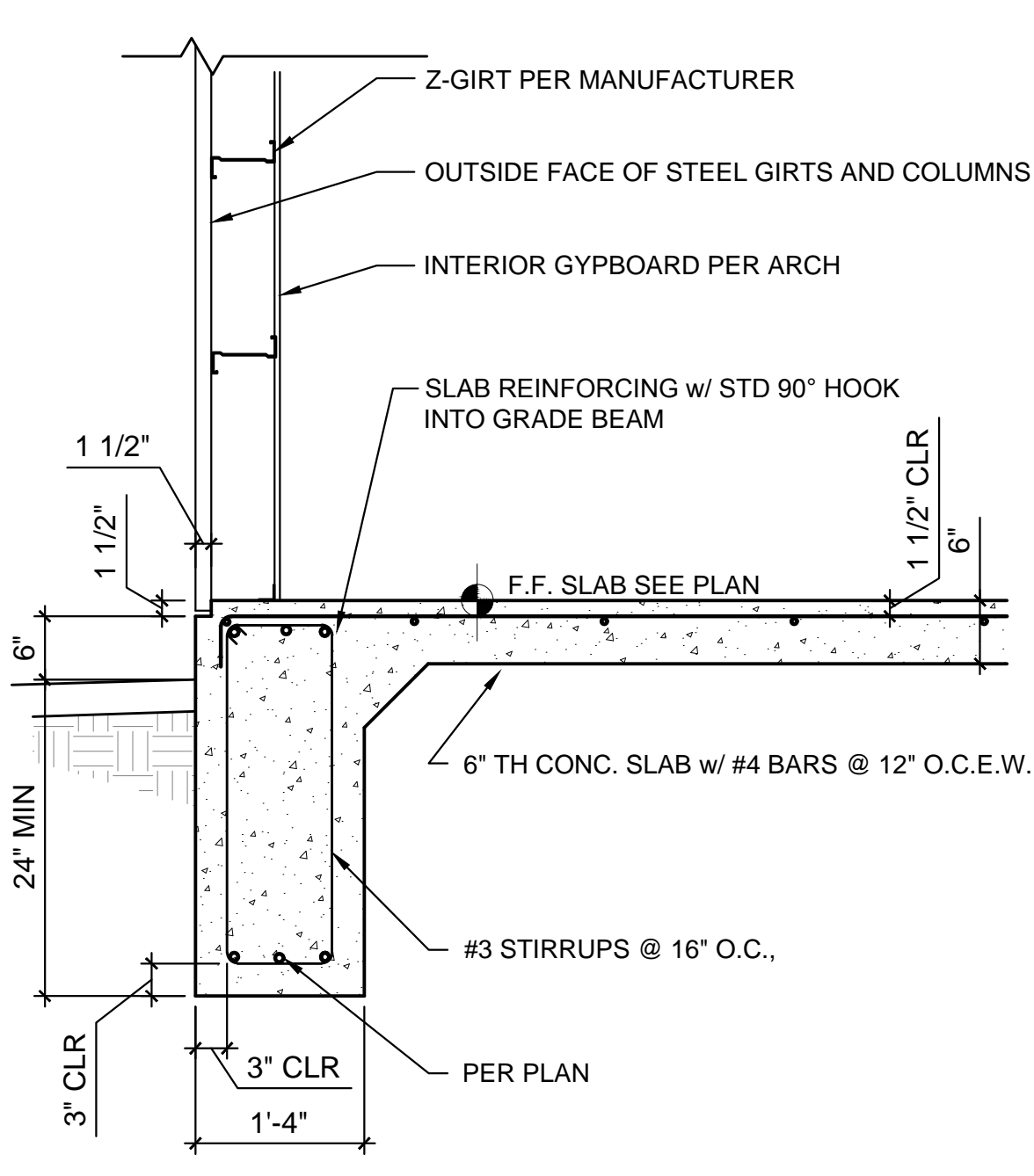
FOUNDATION DETAILS

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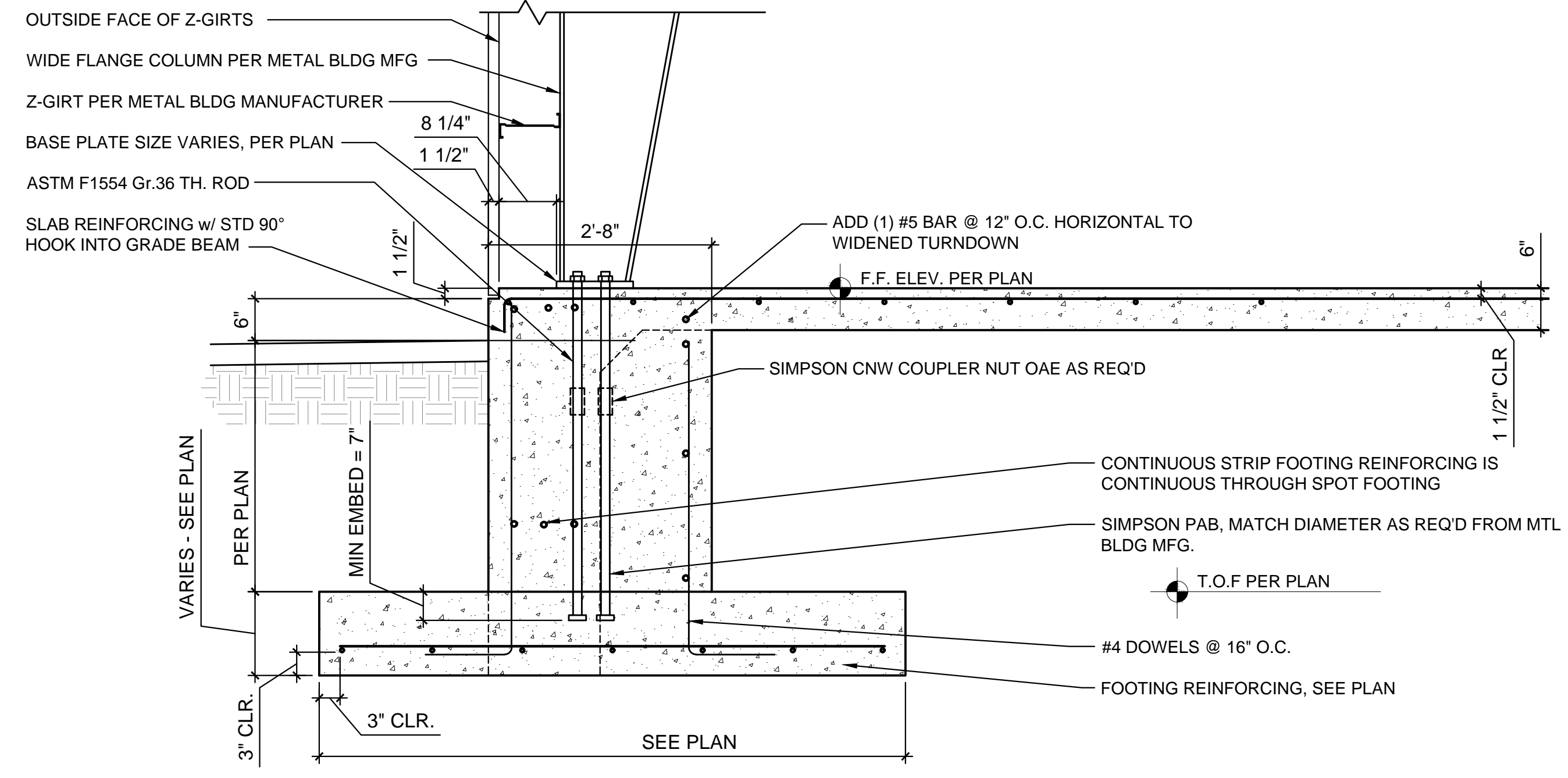
ENGINEER'S SEAL
Eric D. Trujillo, PE
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License Number
21656

LTSE Job # 1152

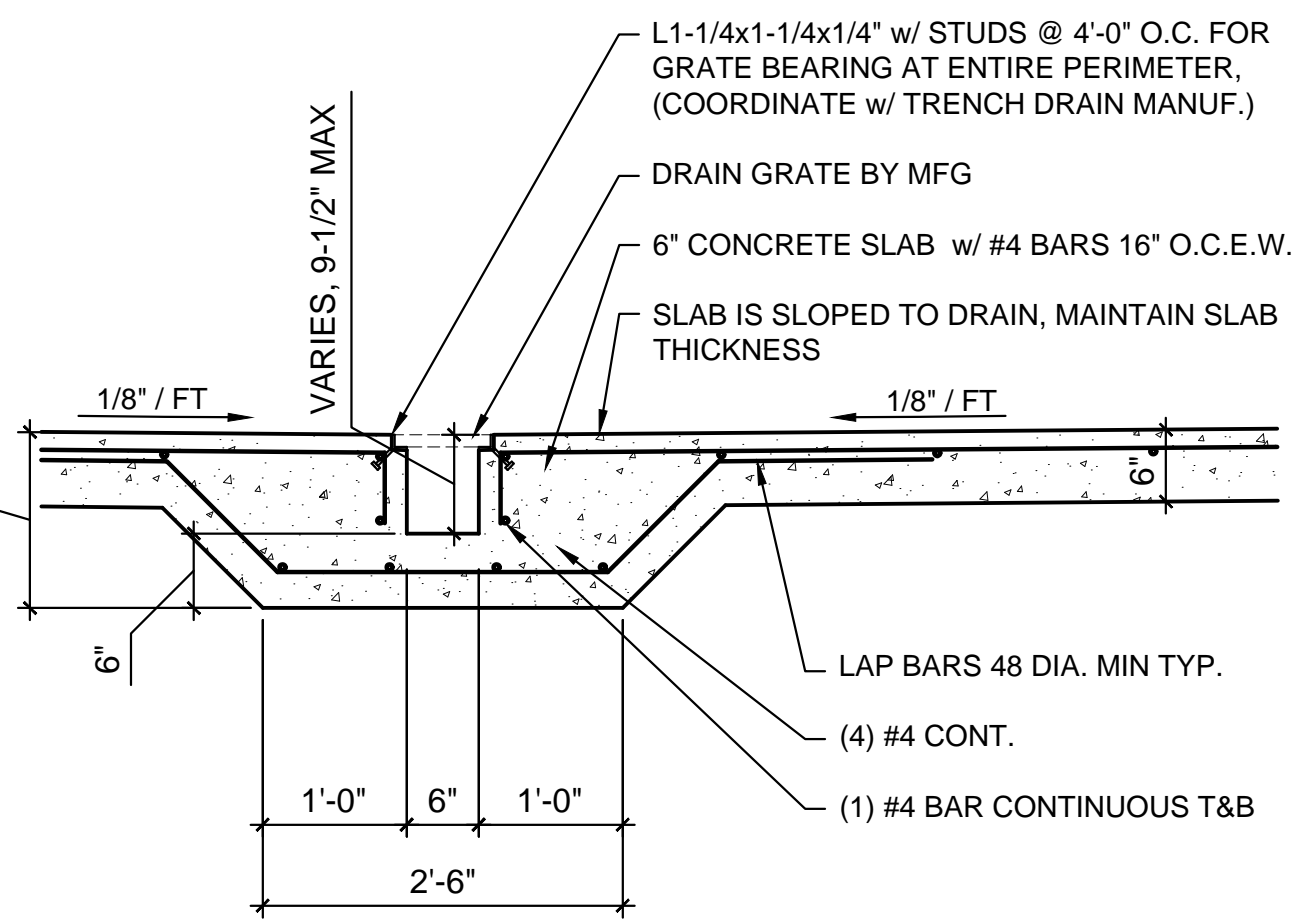
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S3.1
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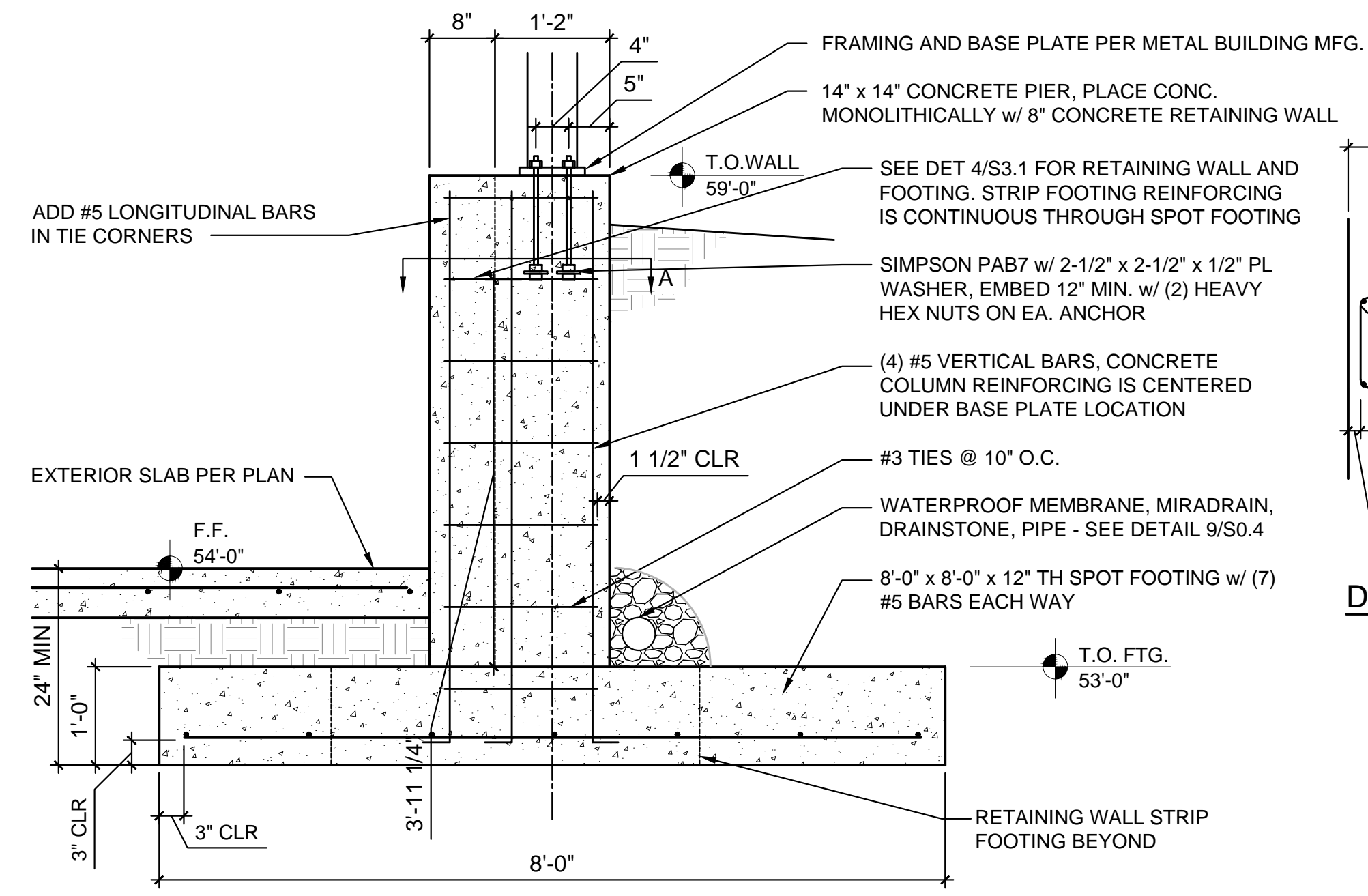
1 TYPICAL PERIMETER TURNDOWN
S3.2 3/4" = 1'-0"



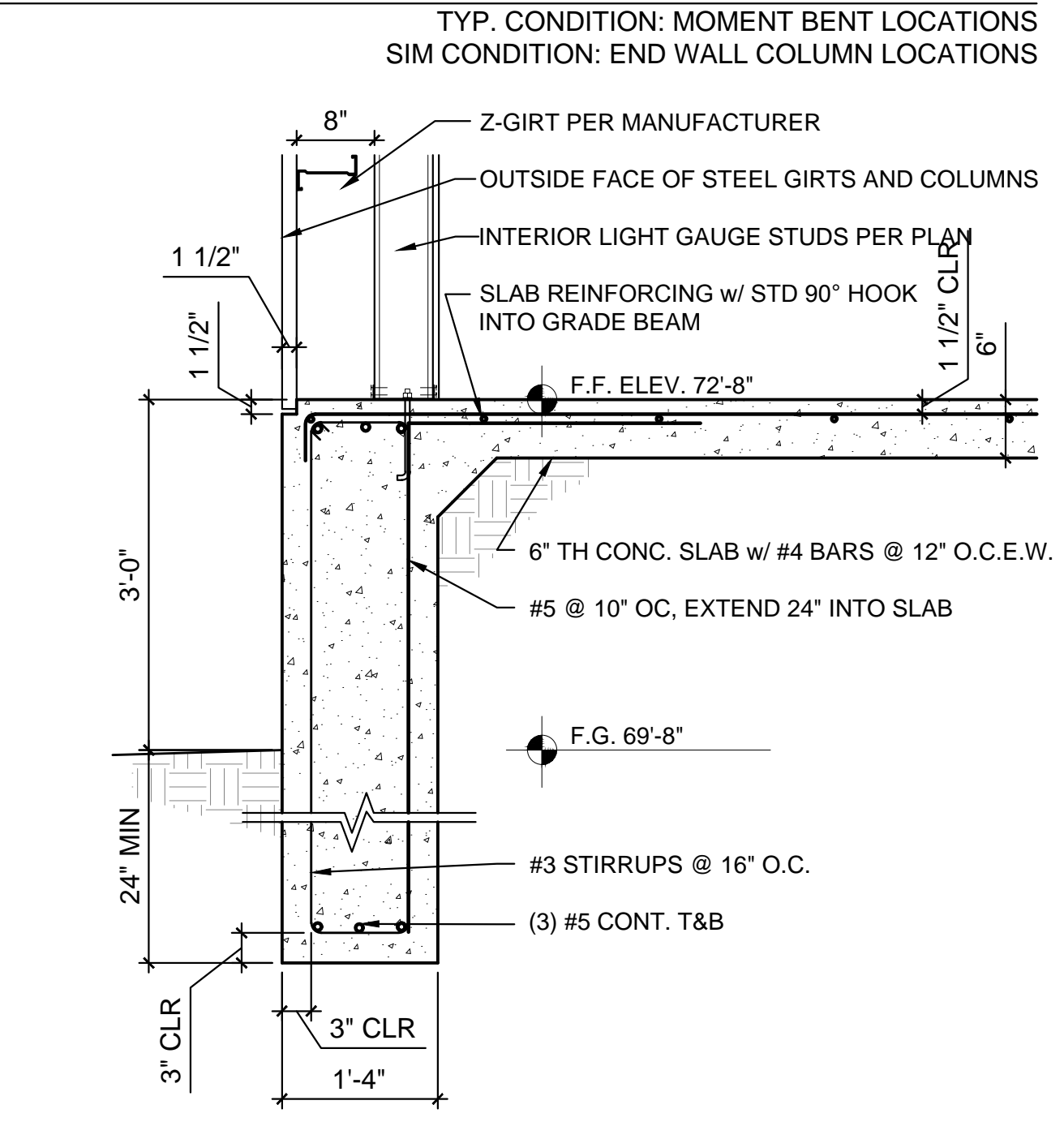
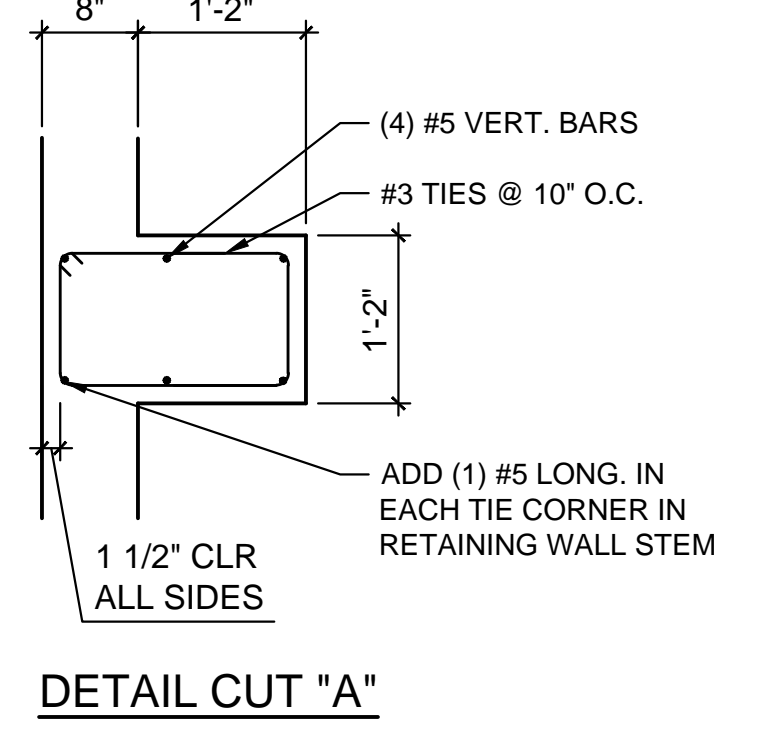
2 SPOT FOOTING AT COLUMN BEARING LOCATION
S3.2 3/4" = 1'-0"



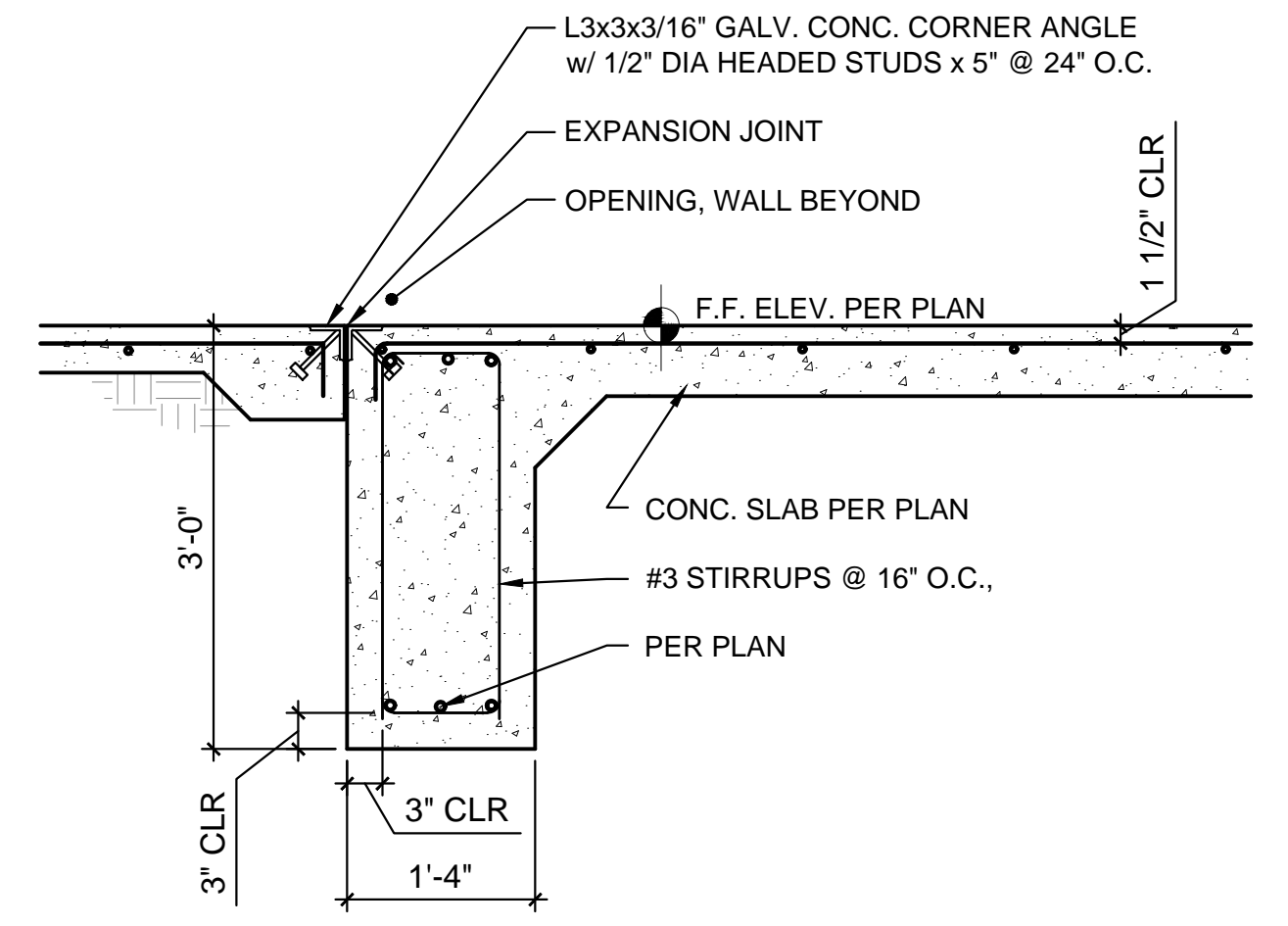
3 CONTINUOUS TRENCH DRAIN
S3.2 3/4" = 1'-0"



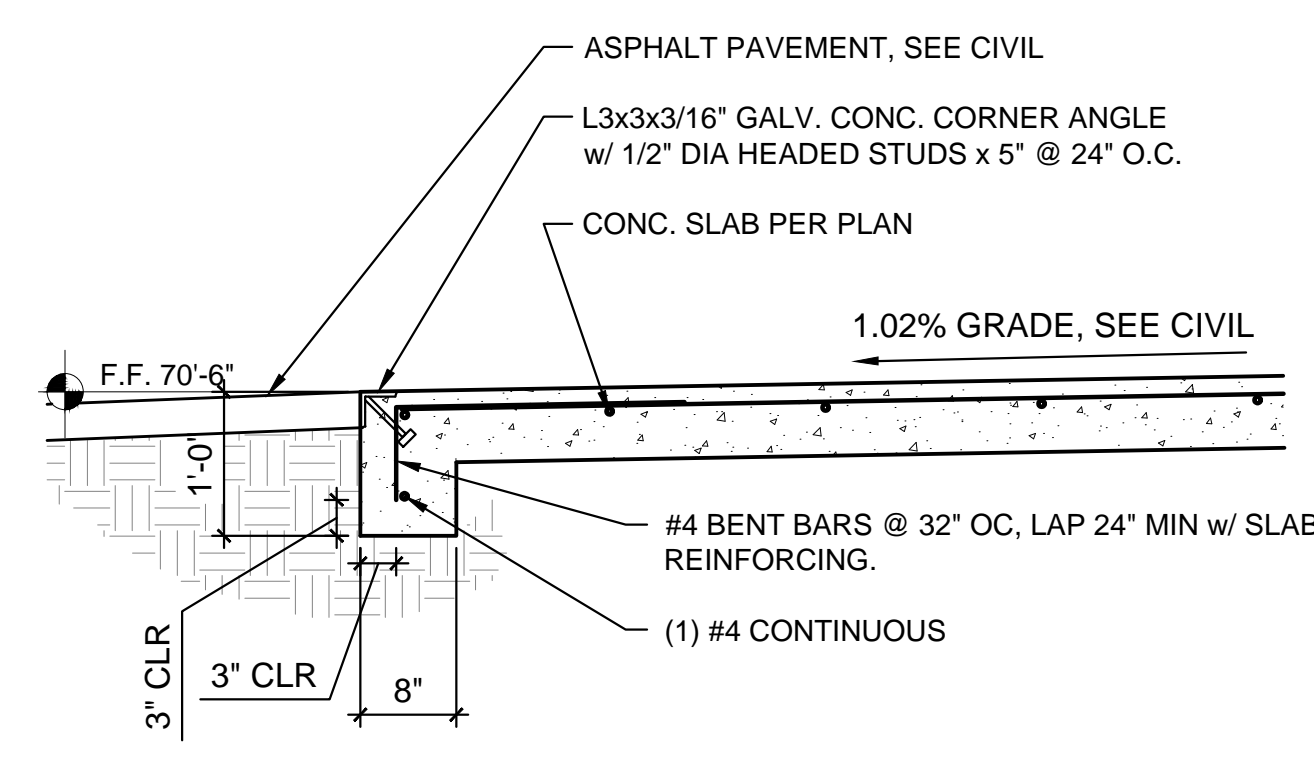
4 WIDE FLANGE COLUMN TO CONCRETE PIER ON FOOTING AT RETAINING WALL
S3.2 3/4" = 1'-0"



5 RETAINING TURNDOWN FOOTING
S3.2 3/4" = 1'-0"



6 TYPICAL PERIMETER TURNDOWN
S3.2 3/4" = 1'-0" DOORWAY LOCATIONS



7 TYPICAL EXTERIOR SLAB THICKENED EDGE
S3.2 3/4" = 1'-0"

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FOUNDATION DETAILS

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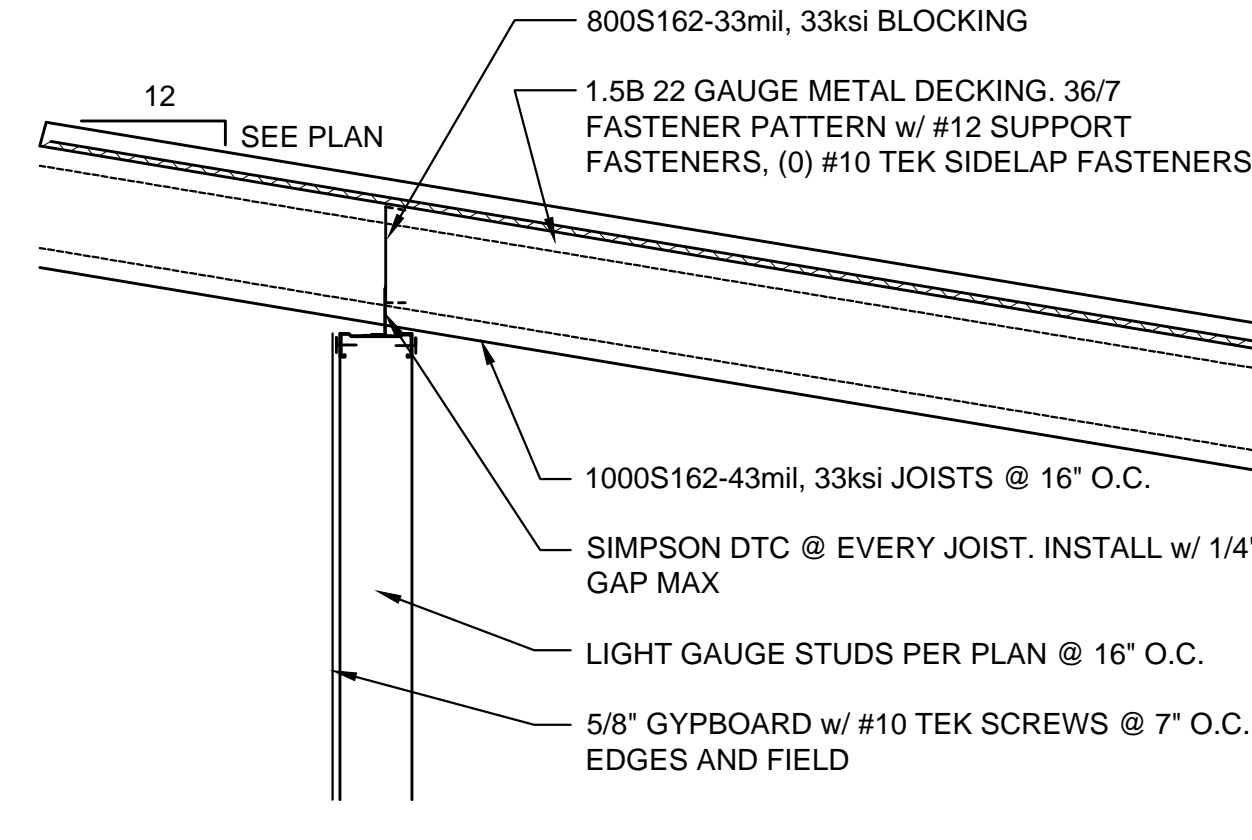
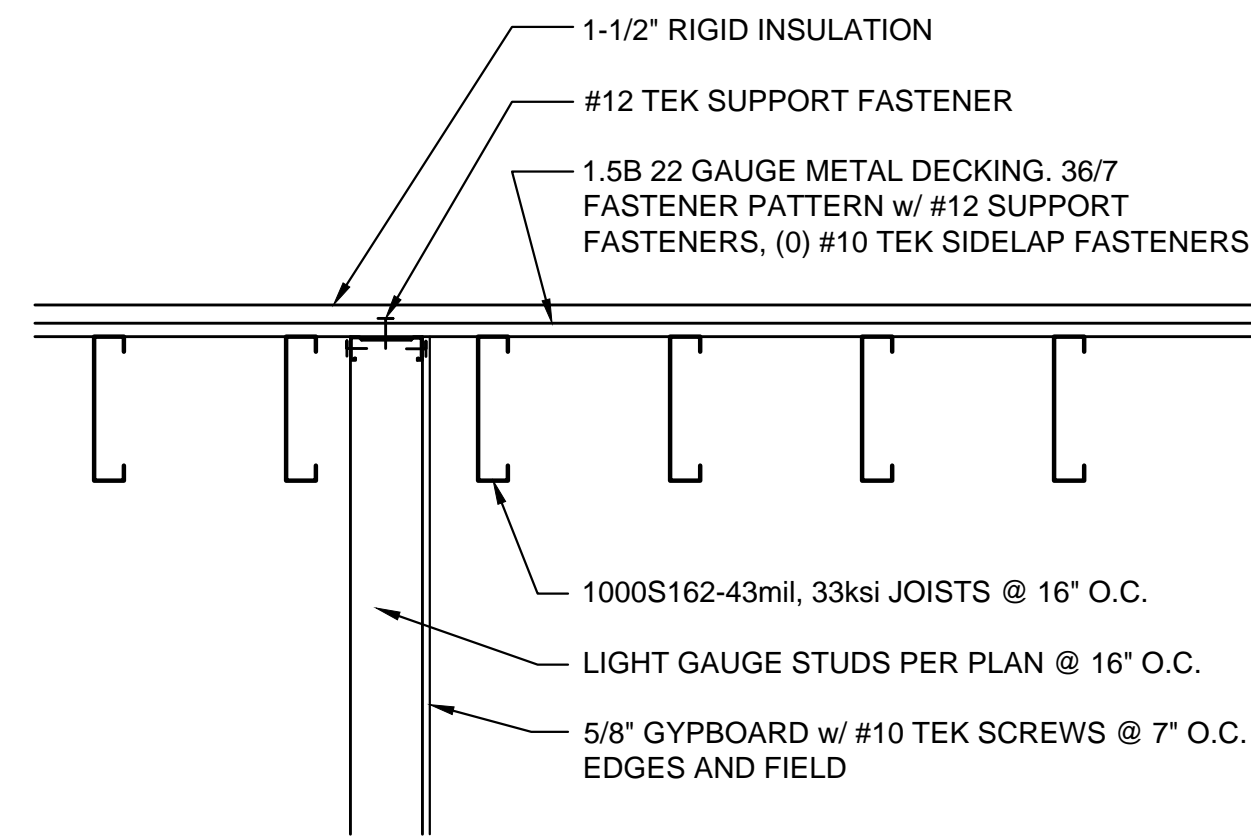
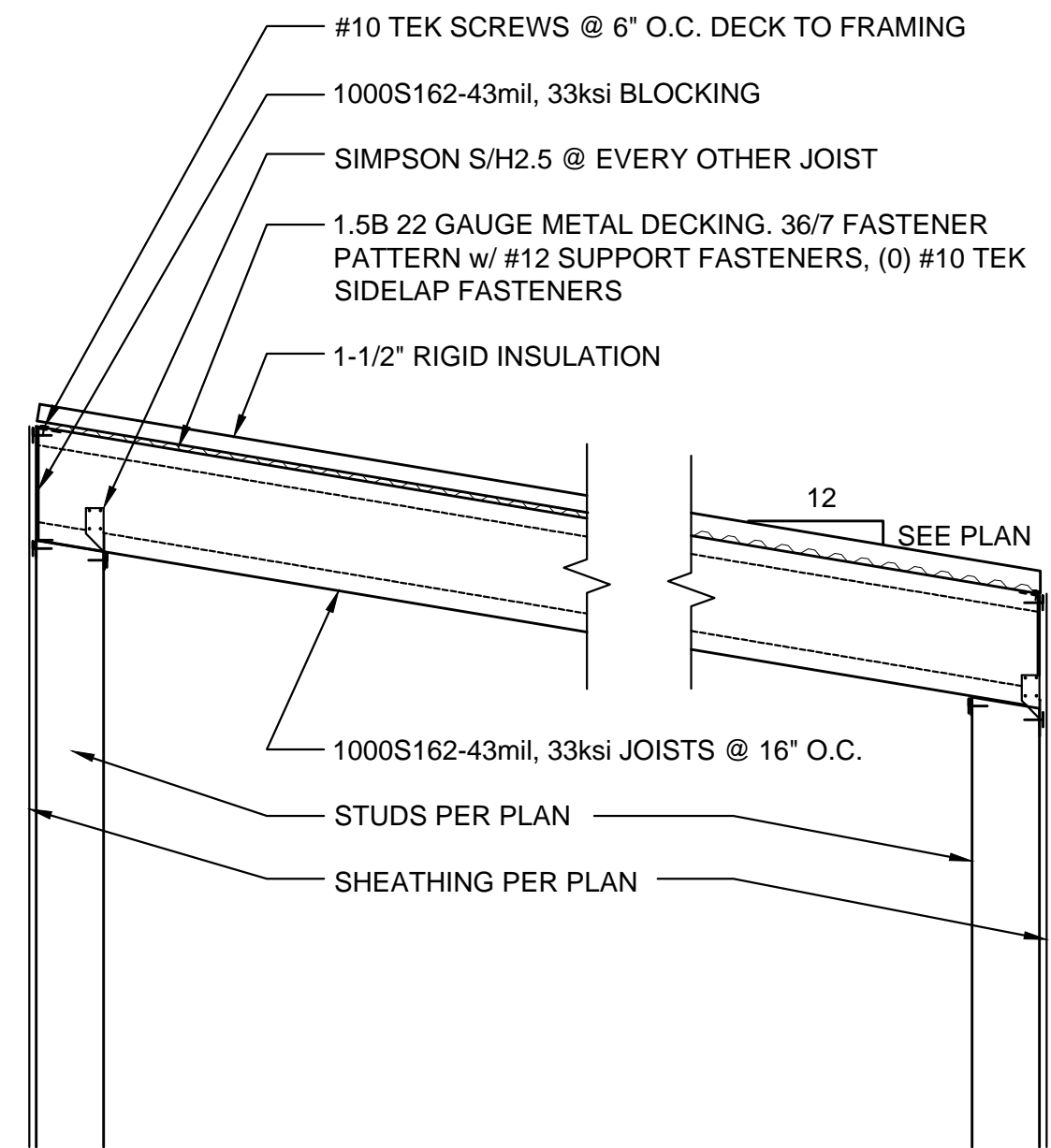
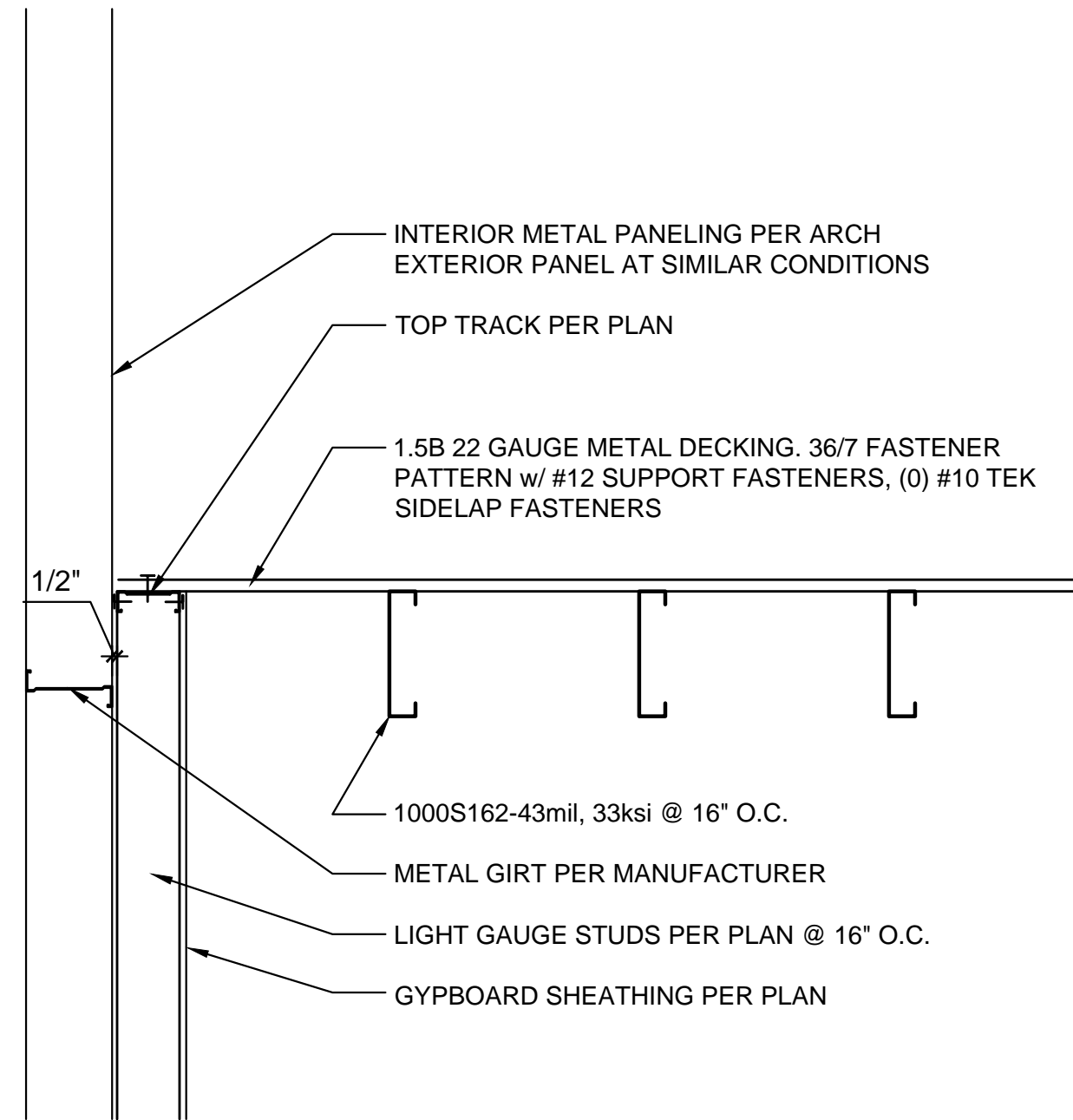
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1 METAL DECK TERMINATION AT LT GA BRG WALL

S4.1 3/4" = 1'-0" SIMILAR CONDITION: 1/2" GAP BETWEEN BUILDINGS w/ EXPANSION MATERIAL, REF. ARCH

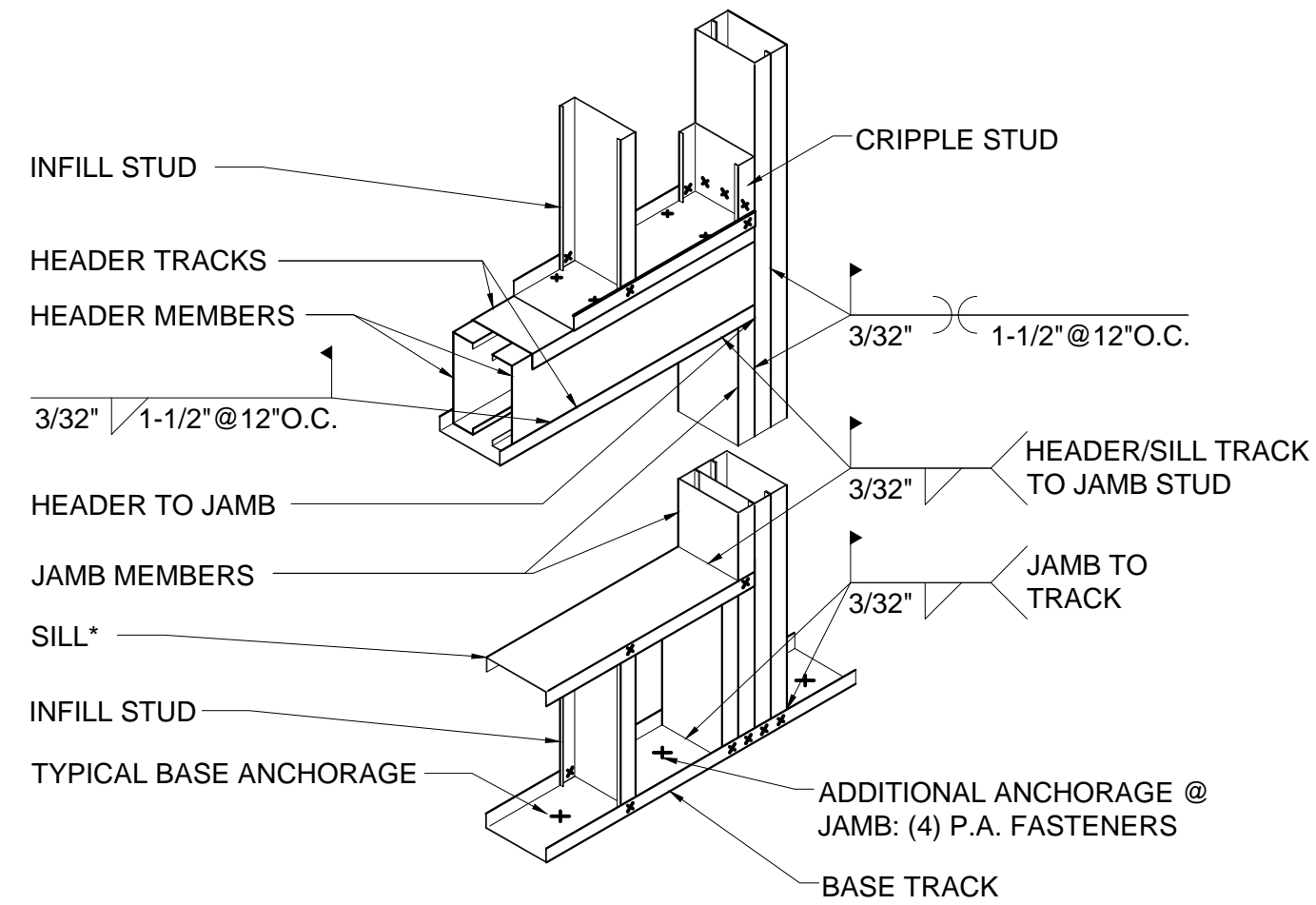
2 JOIST BEARING AT LT GAUGE WALL

S4.1 3/4" = 1'-0"

3 INTERIOR SHEAR WALL TO DIAPHRAGM

S4.1 3/4" = 1'-0"

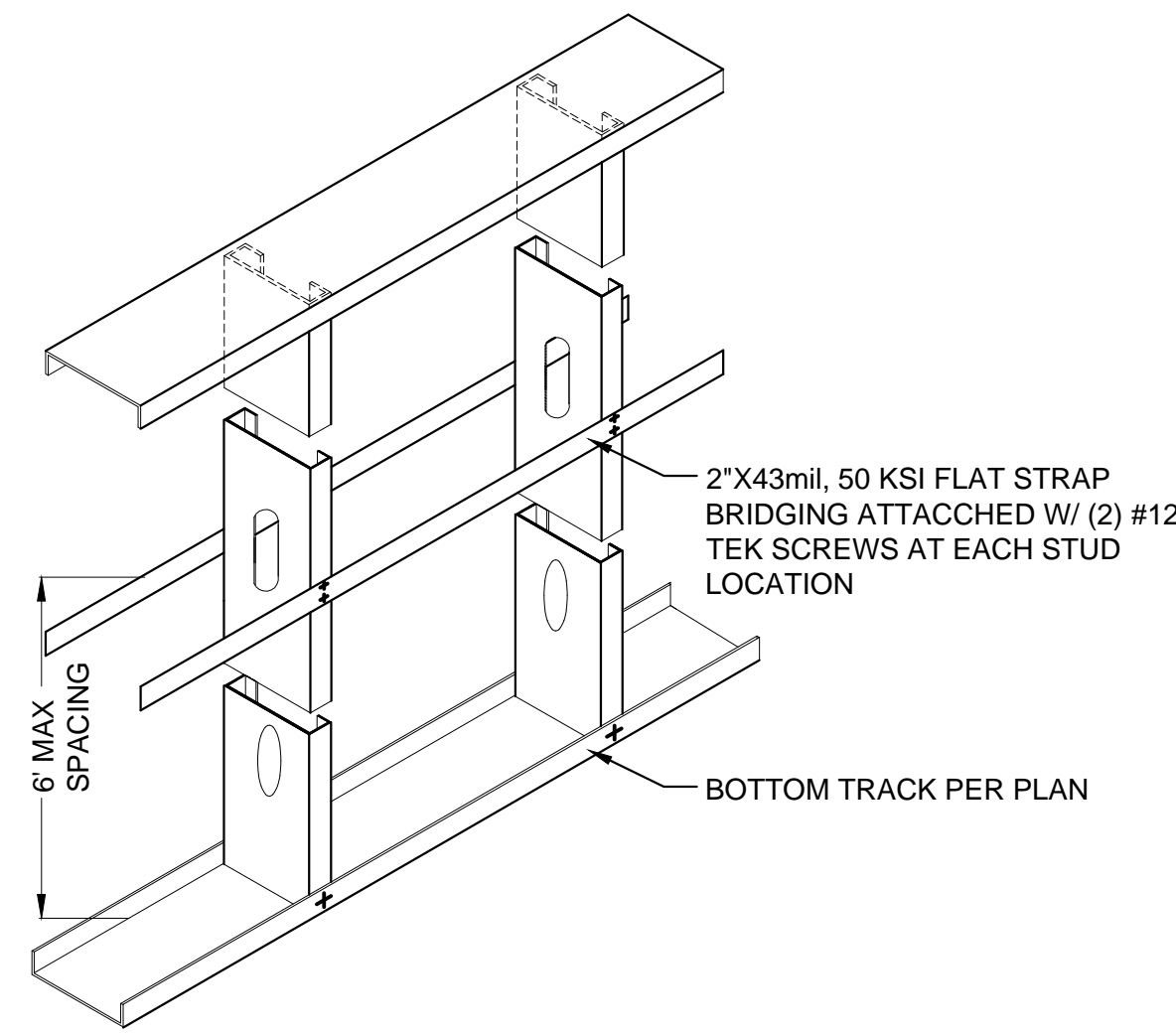
TWO CONDITIONS



NOTES:
 HEADER: (2) 600S162-33mil, 33ksi VERTICAL, (2) 600T125-33mil, 33ksi HORIZONTAL
 JAMB: SEE PLAN
 SILL: (FOR WINDOWS) 600T125-33mil, 33ksi
 * SILL DETAIL WHERE APPLICABLE

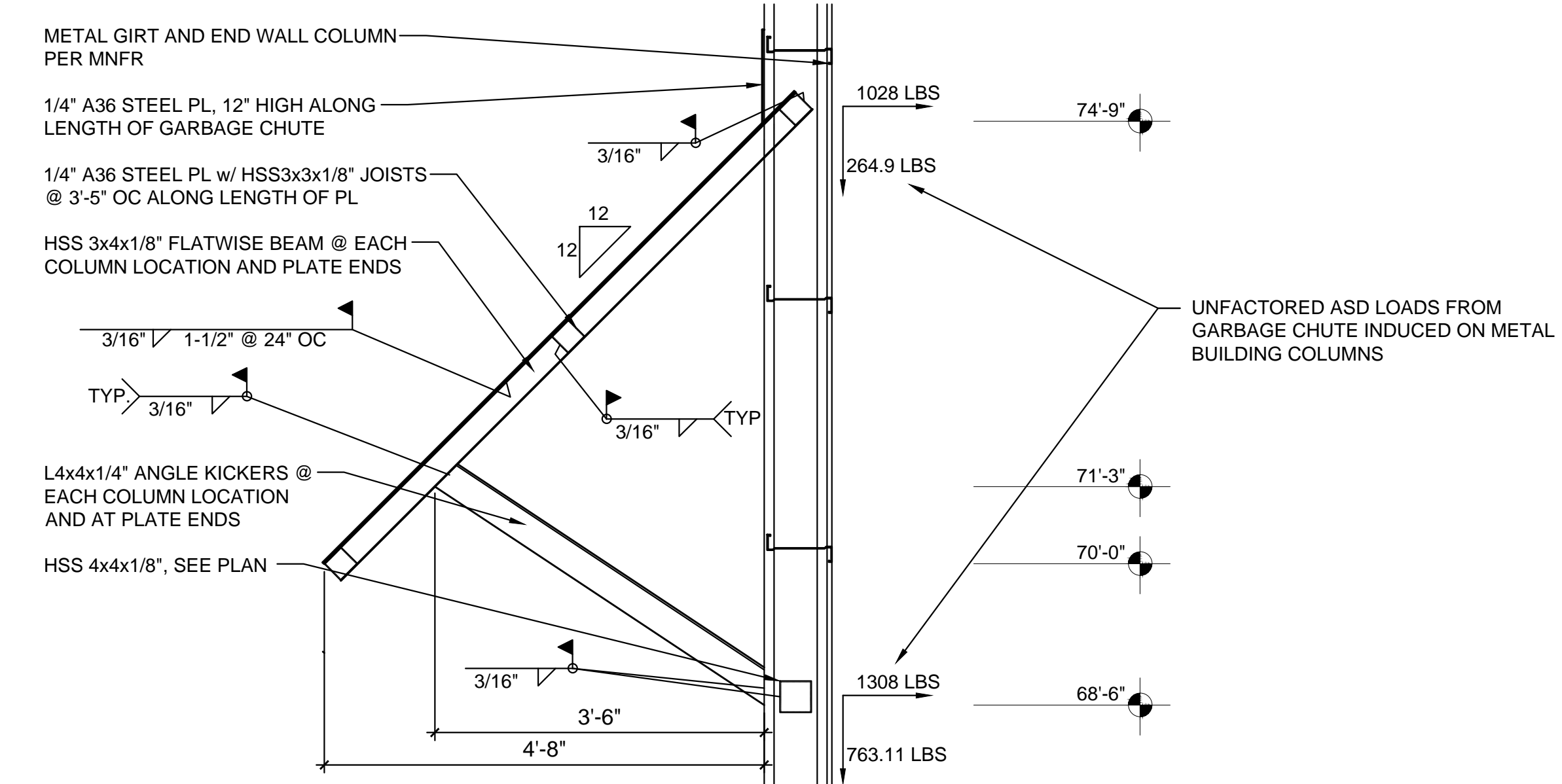
4 TYPICAL LIGHT GAUGE HEADER

S4.1 3/4" = 1'-0"



5 TYPICAL LIGHT GAUGE BRIDGING

S4.1 3/4" = 1'-0"

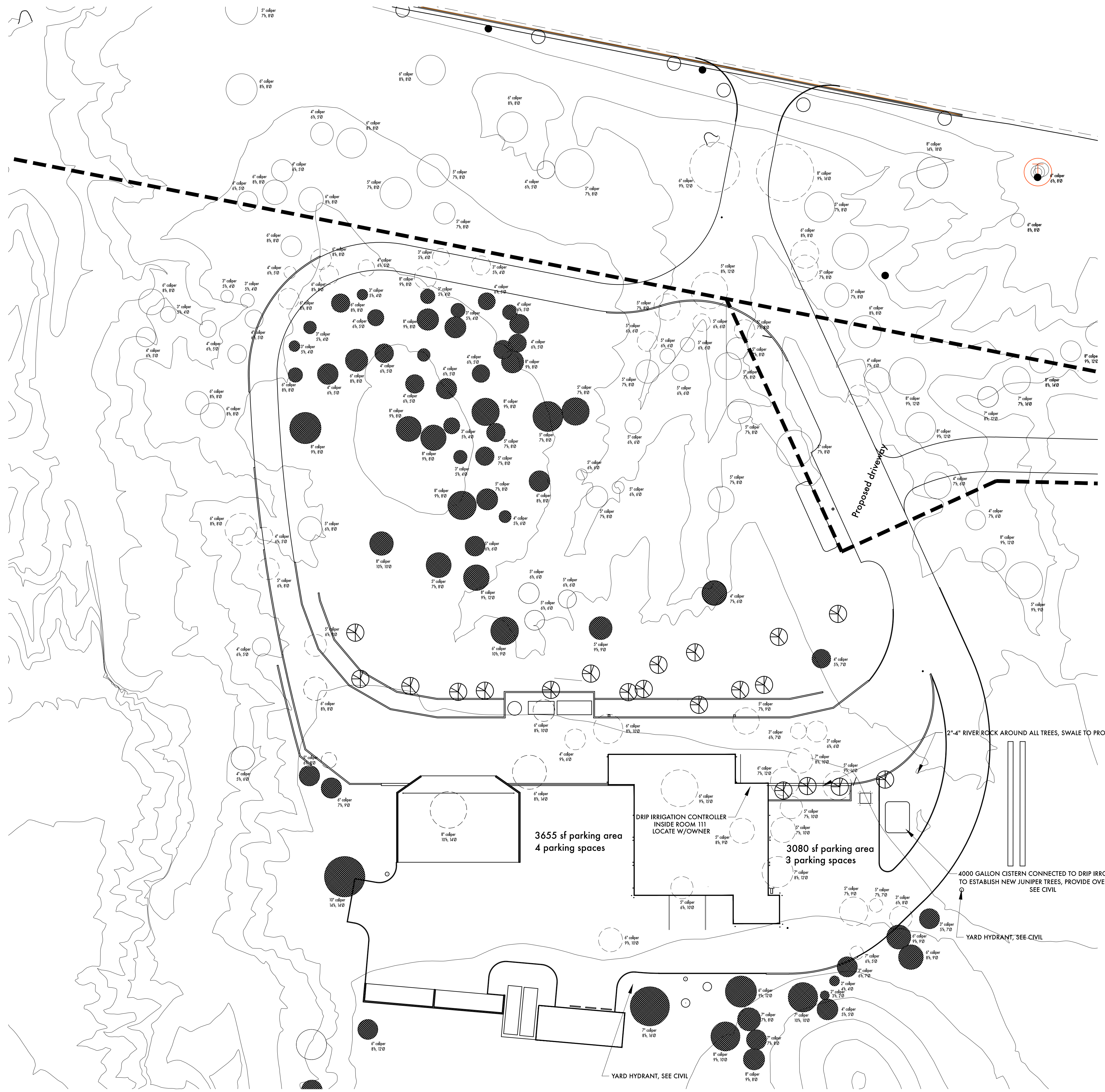


6 METAL GARBAGE CHUTE

S4.1 3/4" = 1'-0"

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Vegetation Key

existing Juniperus Monosperma		on-site screening tree - Juniper
existing Juniperus Monosperma		Juniper off-site or not in vicinity or too low in arroyo to provide screening
existing Juniperus Monosperma		tree to be removed - Juniper
new planting Juniperus Monosperma		new tree - min. 6' Juniper - Contractor to transplant tree on-site designated for removal or plant new tree.

Total on-site screening trees: 64
 Of these, x screen from Highway 502 - 46
 Of these, x screen from neighboring properties to the east - 18
 Additional trees are too low in arroyos or are not close enough in vicinity to provide screening

Shrubs on-site - none of significance

CALCULATION:

building s 6713 sf
 Trees required = $\frac{6713}{500} = 14$
 Shrubs required = $\frac{6713}{16} = 420$ (per exception 4.4.4.f.8 - Additional trees meeting minimum planting standards may be substituted for shrubs in rural locations or where water restrictions are severe, provided that the buffering or screening function is maintained; each additional tree may substitute for 15 shrubs) = 28 additional trees

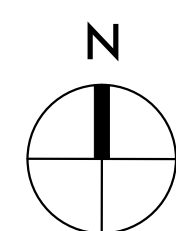
Trees provided on-site: 64 (exceeds 42 tree requirement)

New trees planted: (20) 6' h x 6' spread Junipers

Water budget for new trees:
 20 gal, 4x/month in summer/fall (6 months) per tree = 480 gallons per tree per year
 20 gal, 1x/month in spring/winter (6 months) = 180 gallons per tree per year
 Of the 20 new trees, 4 are direct-watered.

Trees watered from cistern = 16
 16 trees x 660 per tree = 10560 gallons per year
 $\frac{1}{3}$ of 10560 for cistern sizing = 3520 gallons required for cistern
 (exception to requirement of 100% of roof water due to low water budget requirements)

SPEC SECTION 02810 - IRRIGATION
 PROVIDE DRIP IRRIGATION TO ALL NEW AND TRANSPLANTED TREES
 CONNECT TO CISTERN ONLY - NOT POTABLE WATER



1 TREE/VEGETATION SURVEY AND NEW LANDSCAPING
 A0.1 1" = 30'-0"

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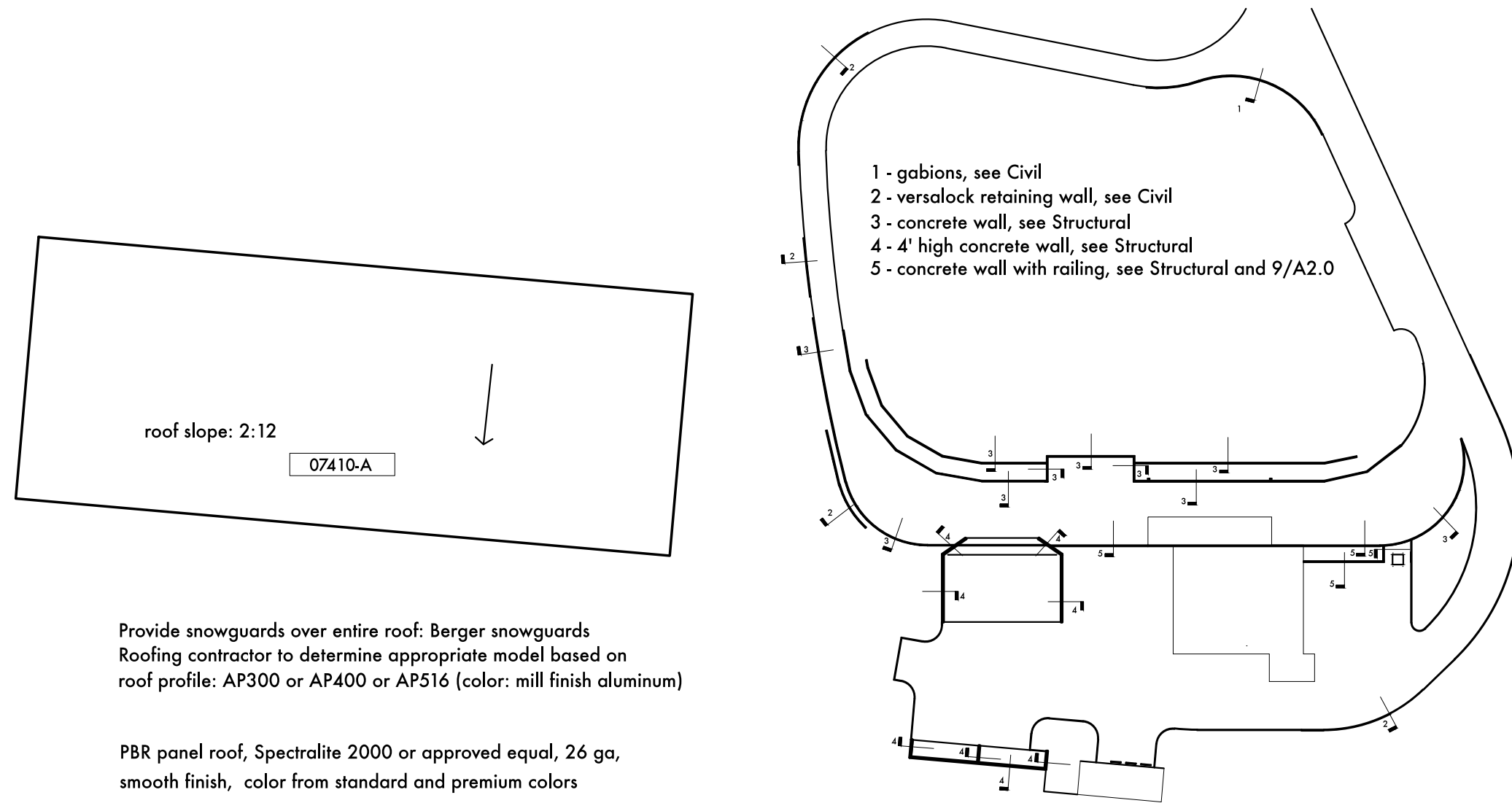
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TREE SURVEY
 LANDSCAPING

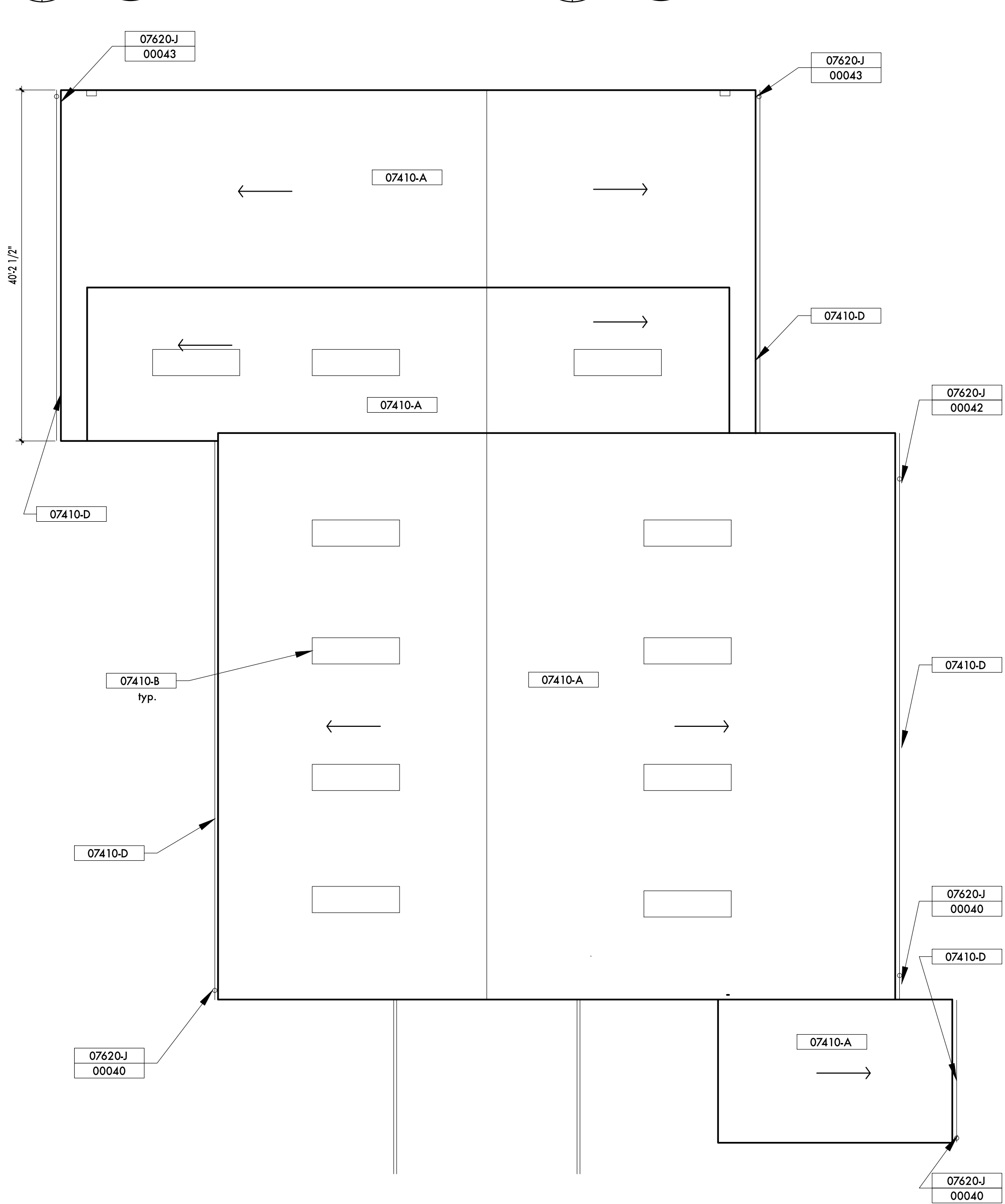
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 505.825.0722 fax 505.825.0722
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BID SET
2.3.16
A0.1
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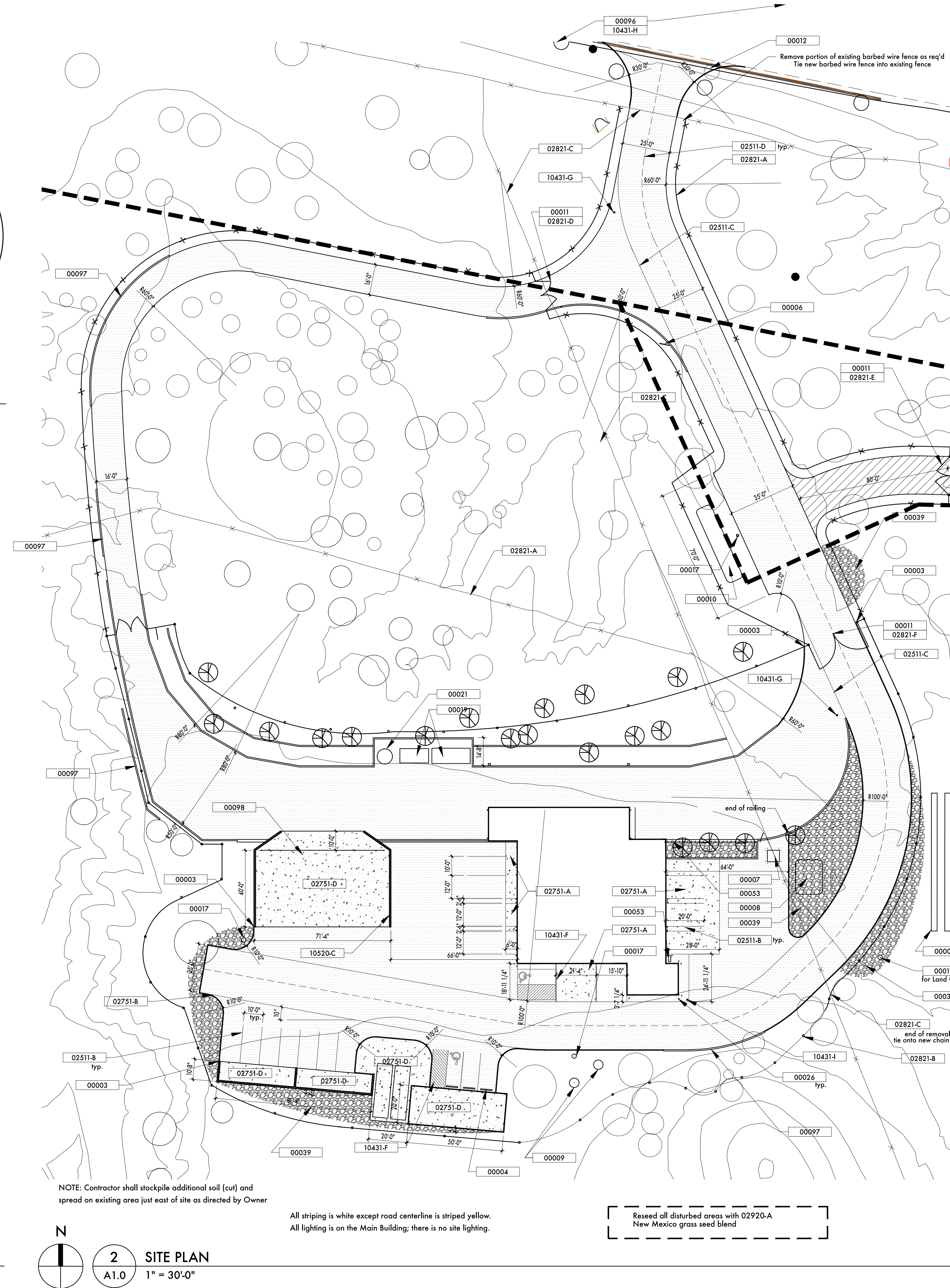


3 ROOF PLAN - RE-USE AREA
 A1.0 3/32" = 1'-0"

4 EXTERIOR WALL KEY
 A1.0 not to scale



1 ROOF PLAN - MAIN BUILDING
 A1.0 3/32" = 1'-0"



2 SITE PLAN
 A1.0 1" = 30'-0"

KEYED NOTES, SITE PLAN

- 00003 BEGINNING/END OF CURB/GUTTER
- 00004 PARKING BUMPER, TYP, RECYCLED PLASTIC
- 00005 INFILTRATORS, SEE CIVIL
- 00006 INFO SIGN, 4X8, PROVIDE BY OWNER, INSTALLED BY CONTRACTOR (ON UNISTRUT)
- 00007 TRANSFORMER, SEE ELEC, PROVIDE CLEARANCE AS REQ'D BY UTILITY, PROVIDE 8 BOLLARDS
- 00008 CISTERN, SEE CIVIL
- 00009 WELL AND WELL-HOUSING
- 00010 FIRE PROTECTION CISTERN, 10,000 GAL.
- 00011 KNOX BOX PADLOCK
- 00012 REMOVE PORTION OF GUARDRAIL AS REQ'D, REPLACE AS REQ'D, SEE CIVIL.
- 00017 YARD HYDRANT, LOCATE PER ARCH. PLANS WITH OWNER.
- 00019 OIL SEPARATOR/SEDIMENT TRAP, SEE CIVIL/PLUMBING, LOCATION PER ARCHITECTURAL.
- 00021 HOLDING TANK, SEE CIVIL, LOCATION PER ARCHITECTURAL.
- 00026 BOLLARDS, 8" CONC. FILLED, PAINTED, SEE 9/A70 TYP. QUANTITY - 24 (PLUS 8 TRANSFORMER BOLLARDS).
- 00039 2'-4" RIVER ROCK, 6" DEEP.
- 00053 CONDENSING UNIT, SEE MECH.
- 00096 COLLECTION CENTER AHEAD SIGN, LOCATE W/OWNER QTY: 2, ONE ON EACH SIDE OF 502.
- 00097 VERSALOCK-TYPE WALL, SEE CIVIL.
- 00098 TWO 8" BOLLARDS WITH CHAIN ACROSS (LOCATE PER OWNER) - MEET IN THE MIDDLE WITH METAL HOOK.
- 02511-A ASPHALT PAVING, SEE CIVIL.
- 02511-B PARKING LOT AND ROAD STRIPING PAINT, INCLUDE NEW REQ. FOR STRIPING/TEXT, WHITE SOLID STRIPING TO DENOTE ROAD EDGE.
- 02511-C DASHED CENTER-LANE STRIPING, TYP.
- 02751-A CONCRETE PAVING (6" APRON)
- 02751-B CURB AND GUTTER, TYP.
- 02751-D CONCRETE PAD (6")
- 02821-A 4-STRANDED BARBED WIRE FENCE, TIE INTO EXISTING AS REQ'D, SEE 8/A70.
- 02821-B 8" CHAINLINK FENCE, LAYOUT DEPENDS ON EXISTING TREES AND TOPOGRAPHY, RETAIN ALL TREES AND LOCATE FENCE WITH TOPOGRAPHY, LENGTH AND LAYOUT WILL VARY FROM PLAN. CONTRACTOR IS RESPONSIBLE FOR LAYOUT AND THERE SHALL BE NO ADDITIONAL CHARGES FOR LENGTH.
- 02821-C REMOVE EXISTING BARBED WIRE FENCE.
- 02821-D DOUBLE PIPE GATES ON 8" BOLLARD, PAIR - 10' EA.
- 02821-E TUBESTEEL FARM GATES, PAIR 10' EA, 7 BAR ON 8" BOLLARD.
- 02821-F CHAIN LINK GATE, DOUBLE - 28' WIDTH TOTAL.
- 02920-A NEW MEXICO GRASS SEED BLEND.
- 10431-F HC PARKING SIGNAGE, SEE 2/A70.
- 10431-G "DO NOT ENTER, COUNTY VEHICLES ONLY" SIGN, LOCATE WITH OWNER.
- 10431-H "COLLECTION CENTER AHEAD" SIGN, LOCATE WITH OWNER.
- 10431-I "STOP" SIGN, LOCATE WITH OWNER.
- 10520-C FIRE EXTINGUISHER ON BRACKET, MOUNT PER MFG. INSTRUCTIONS FOR ADA.

GENERAL NOTES:

1. All walkways 1:20 slope max, unless otherwise noted.
2. Protect all existing trees; all trees shall remain. If trees not shown to be removed require removal, notify Architect for approval prior to removal. Protect landscaping to remain from damage.
3. Submit layout, location and area of construction and erosion control fences prior to beginning construction.
4. Limit site disturbance; reseed all areas of disturbance.
5. Protect native vegetation.
6. Slope exterior concrete slabs and walkways away from building min. 2%/foot.
7. See sheet A0.2 for new trees (quantity:20)
8. Wall heights are from top of wall to finish grade.
9. Limit staging area to new driveways/roads/parking lots; submit staging area prior to beginning work.
10. Do not disturb soil/landscaping/other items beyond area of work.
11. PROVIDE CONSTRUCTION SIGN PER COUNTY SPECS.

KEYED NOTES, ROOF PLAN

- 00040 CONNECT DOWNSPOUT TO DROP INLET, PIPE UNDER PARKING AREA TO CISTERN, SEE CIVIL.
- 00042 CONNECT DOWNSPOUT TO PLANTED AREA; GRADE PLANTED AREA TO SERVE ALL TREES.
- 00043 CONNECT DOWNSPOUT TO DROP INLET THEN PIPE TO ARROYO.
- 07410-A METAL ROOF BY METAL BUILDING MANUFACTURER, COLOR: CHARCOAL GRAY OR FROM FULL RANGE OF STANDARD AND PREMIUM COLORS.
- 07410-B TRANSLUCENT ROOF PANEL.
- 07410-D 6X4 24 GA. BOX GUTTER, FINISH TO MATCH ROOF COLOR.
- 07620-J 4X6 METAL DOWNSPOUT 26 GA., FINISH TO MATCH METAL WALL PANELS.

GENERAL NOTES:

1. Align exhaust where possible.
2. Gang roof penetrations where possible.
3. Slope roof 2:12.
4. Finish downsloots - match metal wall panels.
5. Slope of gutters 1/2" /ft. min.
6. Paint all pipes (incl. gas pipes) on roof to match roofing material.

MATERIALS KEY	FENCING
Concrete	02751-A
Asphalt	02751-D
00039	8" Chainlink
	4-stranded Barbed Wire
	Dirt road, graded and compacted

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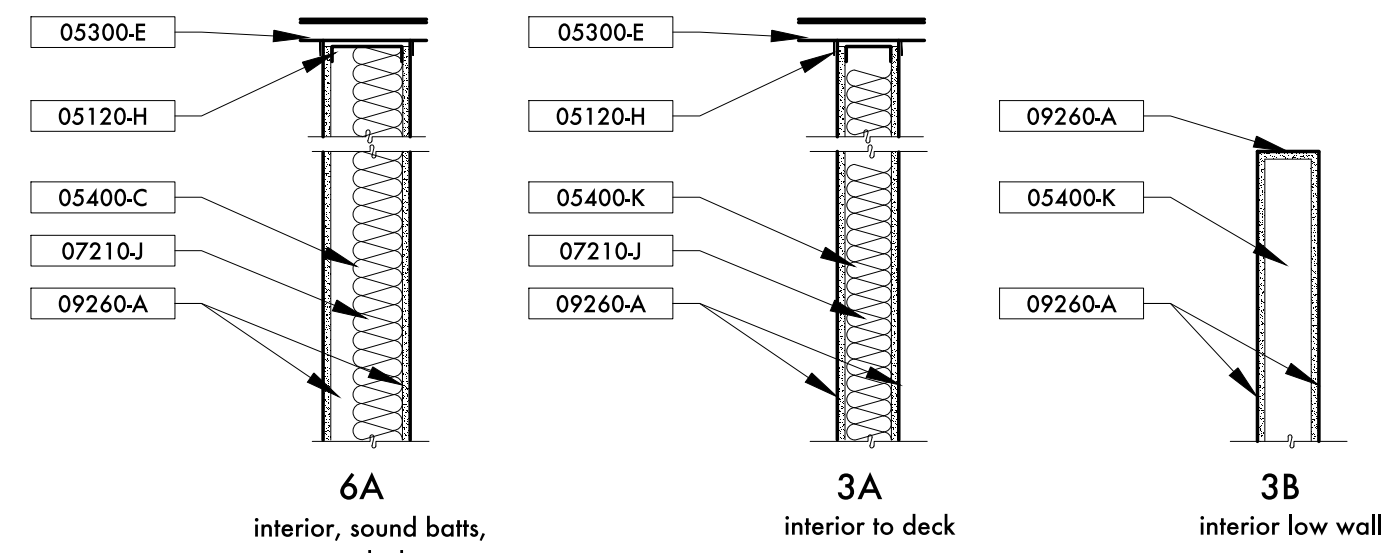
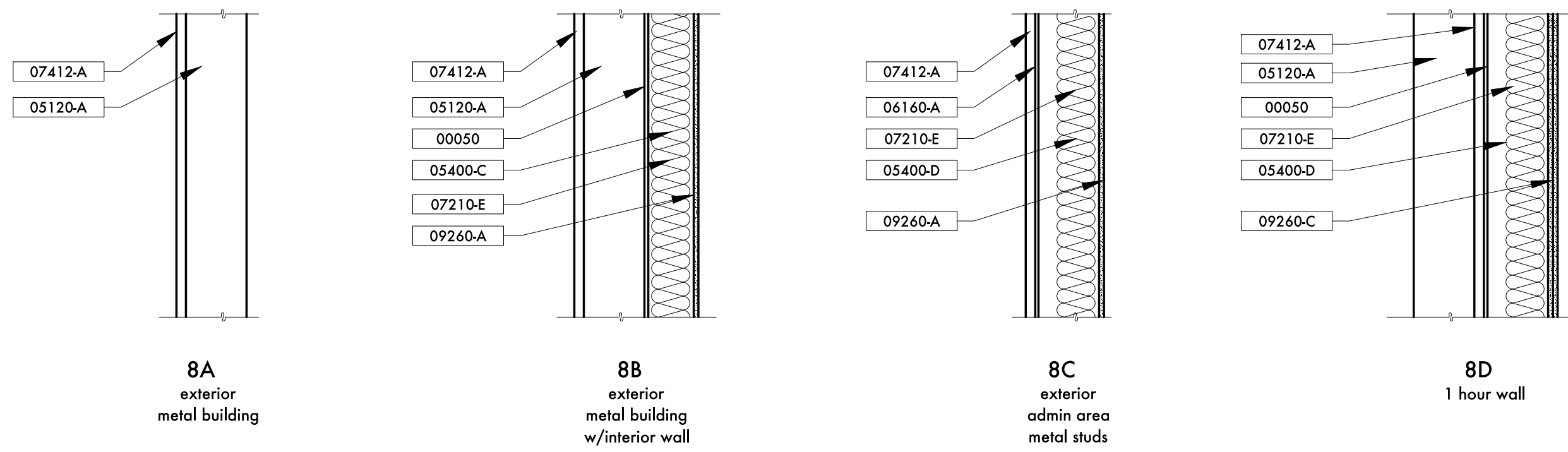
STATE OF NEW MEXICO
 Marcj L. Riskin
 No. 2977
 2.3.16
 REGISTERED ARCHITECT

SITE PLAN/ROOF PLAN

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 2.3.16

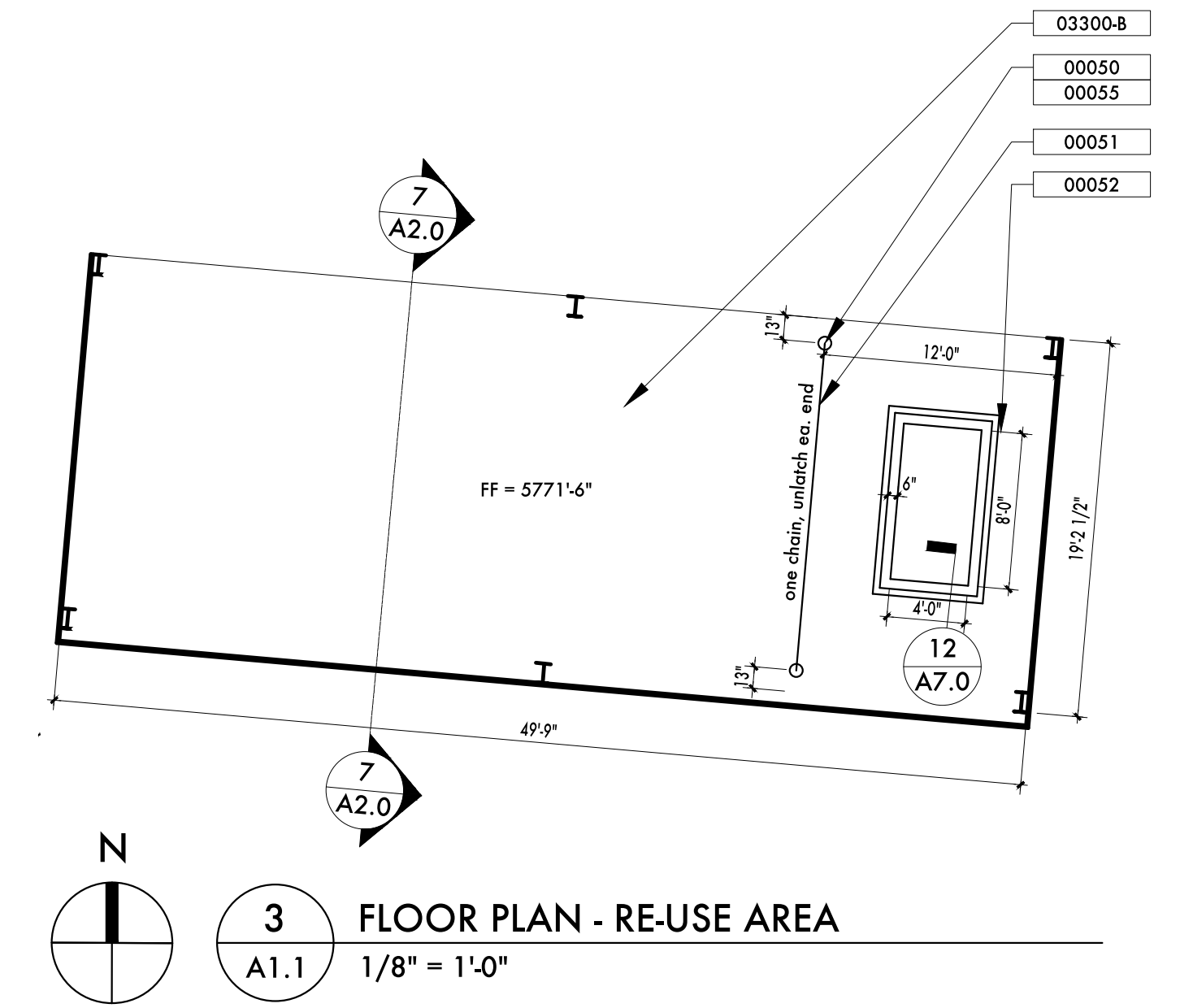
A1.0
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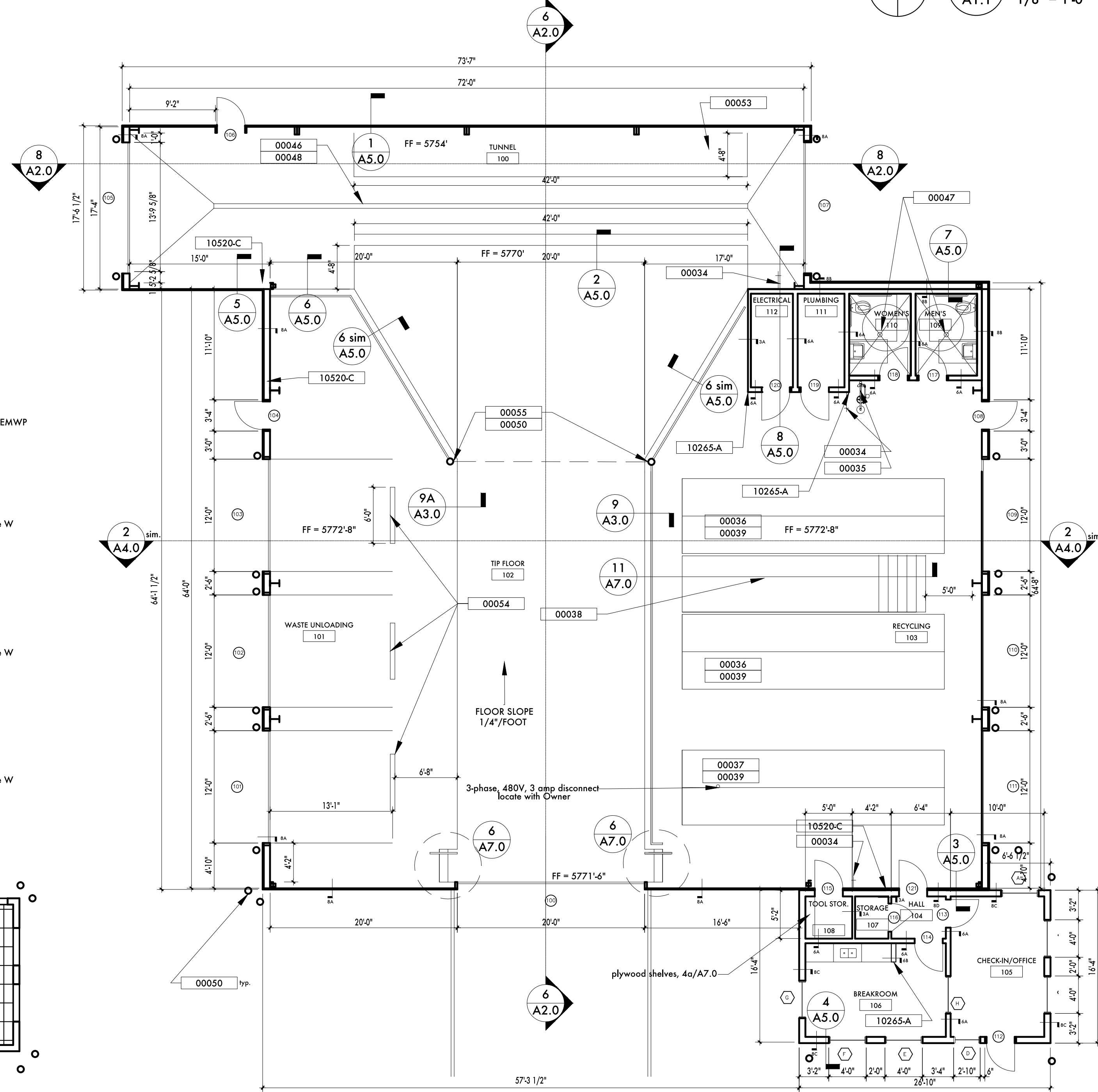
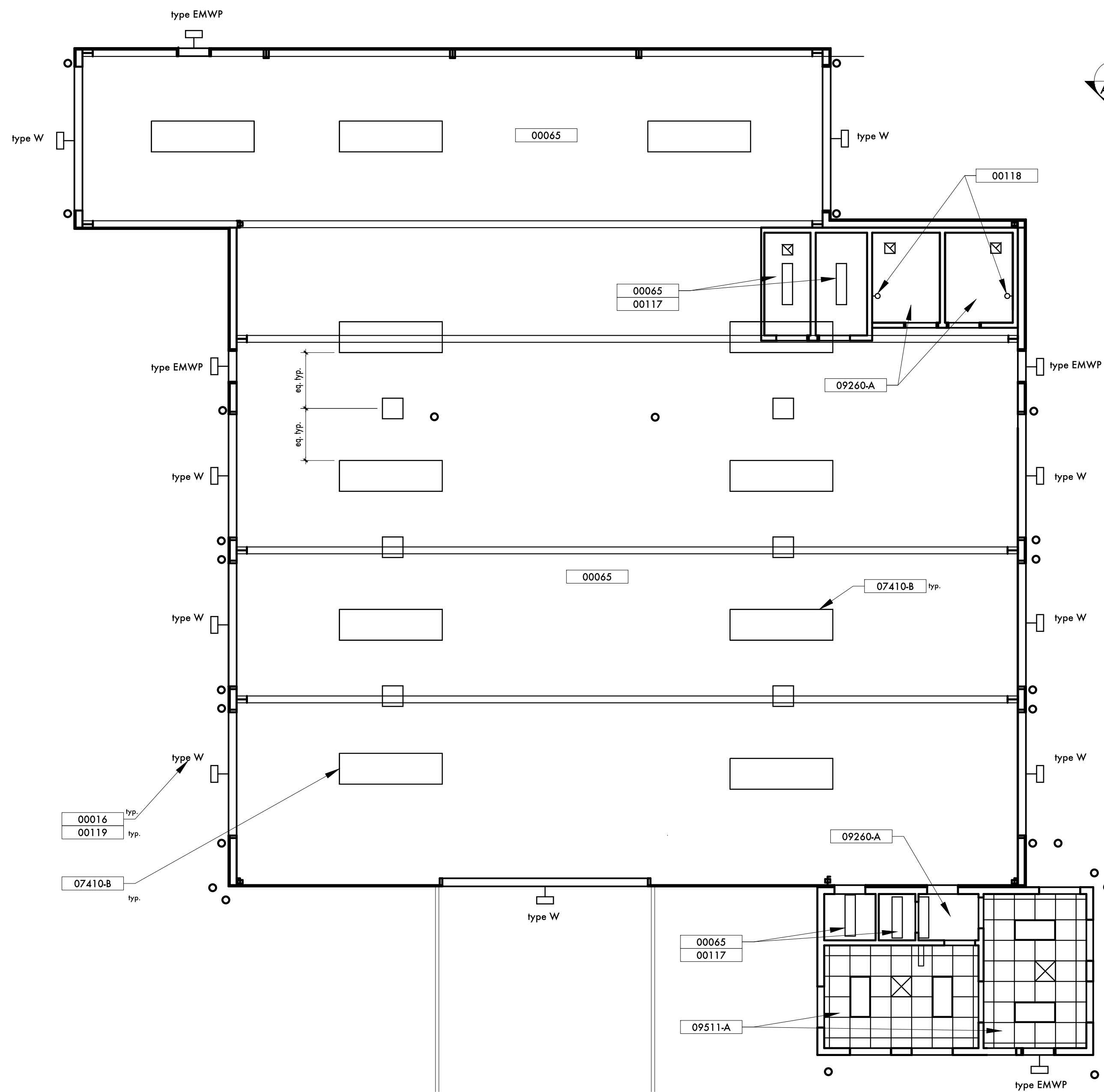


KEYED NOTES, WALL TYPES

- 00050 1/2" SPACE, FILL WITH EXPANSION MATERIAL
- 05120-A WALL GIRT BY MET. BLDG. MFR.
- 05120-B BENT FRAME BY METAL BLDG. MFR.
- 05120-H STEEL ANGLE, PAINT IF EXPOSED
- 05300-E METAL DECK, PAINT IF EXPOSED
- 05400-C 4" METAL STUD WALL, SEE STRUCTURAL
- 05400-D 8" METAL STUD WALL, SEE STRUCTURAL
- 05400-K 3 1/2" METAL STUD WALL, SEE STRUCTURAL
- 06160-A 1/2" OSB SHEATHING, SEE STRUCT.
- 07210-E BATT INSULATION, R19
- 07210-J FIBERGLASS BATT INSUL. - FILL CAVITY
- 07412-A METAL WALL PANEL
- 07840-A FIRE STOP MATERIAL FOR 1 HOUR RATED WALLS
- 09260-A 1/2" GYPSUM BOARD, TYPE "X" WHERE RATED.
- 09260-C TWO LAYERS TYPE X GYP BOARD FOR 1 HOUR RATING (OR OTHER CONFIGURATION AS REQUIRED TO ACHIEVE RATING)



3 WALL TYPES
A1.1 3/4" = 1'-0"
SEE SECTIONS ON A3.0 FOR ADDITIONAL INFORMATION



KEYED NOTES, FLOOR PLAN

- 00026 BOLLARDS, 8", CONC. FILLED, PAINTED; SEE 9/A7.0 TYP. QUANTITY - SEE SITE PLAN FOR OTHERS
- 00034 HOSEBB, SEE PLUMBING - LOCATE PER INTER. ELEV.
- 00035 EMERGENCY SHOWER, SEE PLUMBING - LOCATE PER INTER. ELEV.
- 00036 OPEN TOP CONTAINER, PROVIDED BY OWNER
- 00037 COMPACTOR, PROVIDED BY OWNER
- 00038 CATWALK, SEE DETAIL 11/A7.0, ALLOWANCE
- 00039 METAL FLOOR ANGLE, SEE STRUCTURAL
- 00046 TRENCH DRAIN, SEE PLUMBING
- 00047 FLOOR DRAIN
- 00048 SLOPE FLOOR 1/4" FOOT TO DRAIN
- 00050 8" CONC FILLED BOLLARD, SEE DETAILS
- 00051 WELD EYE TO EACH BOLLARD, PROVIDE 2 HOOKS AND 2 CHAINS
- 00052 METAL DRAINPAN, CONSTRUCT FROM SHEET METAL W/GRATE, SEE 14/A7.0
- 00053 METAL CHUTE, SEE STRUCTURAL
- 00054 RECYCLED PLASTIC PARKING BUMPER, STAKE PER MFR.
- 00055 4" STEEL BOLLARD WITH WELDED EYHOOK, 42" H
- 03300-B CONCRETE FLOOR, SEE STRUCTURAL
- 10265-A CORNERGUARD, ALL OUTSIDE GYP. CORNERS, TYP.
- 10520-C FIRE EXTINGUISHER ON BRACKET, MOUNT PER MFR. INSTRUCTIONS FOR ADA

GENERAL NOTES:

1. See sheet 7.0 for locations of abuse gyp. board and other finishes
2. See interior elevations for additional requirements. Provide blocking at all wall-mounted items and where required for doors/sectional doors/windows and other specialties.
3. Provide cornerguard on ALL outside gyp. bd corners, typ.
4. Typ. gyp. wall detail 10/A7.0.
5. See 10/A3.0 for roof eaves.

KEYED NOTES, REFLECTED CEILING

- 00016 EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL
- 00065 EXPOSED STRUCTURE AND DECK PAINTED PER METAL BLDG MFR. AND MECH/CONDUIT, PAINTED
- 00117 CENTER DEVICE/FIXTURE IN ROOM
- 00118 CENTER OVER SINK
- 00119 CENTER DEVICE/FIXTURE ON DOOR/OPENING
- 07410-B TRANSLUCENT PANELS
- 09511-A 2X2 SUSPENDED ACOUSTICAL TILE CEILING SYSTEM
- 09260-A 1/2" GYPSUM BOARD, TYPE "X" WHERE RATED, ABUSE BOARD WHERE NOTED

GENERAL NOTES:

1. Locate light fixtures in center of ceiling tiles typ.

2 REFLECTED CEILING PLAN
A1.1 1/8" = 1'-0"

1 FLOOR PLAN
A1.1 1/8" = 1'-0"

Refer to Structural for control (sawcut within 12 hours after pour, semi-rigid joint filler) and construction joints
Maximum distance between control joints 15 ft; submit layout prior to cutting joints.

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FLOOR PLAN
REFLECTED CEILING PLAN

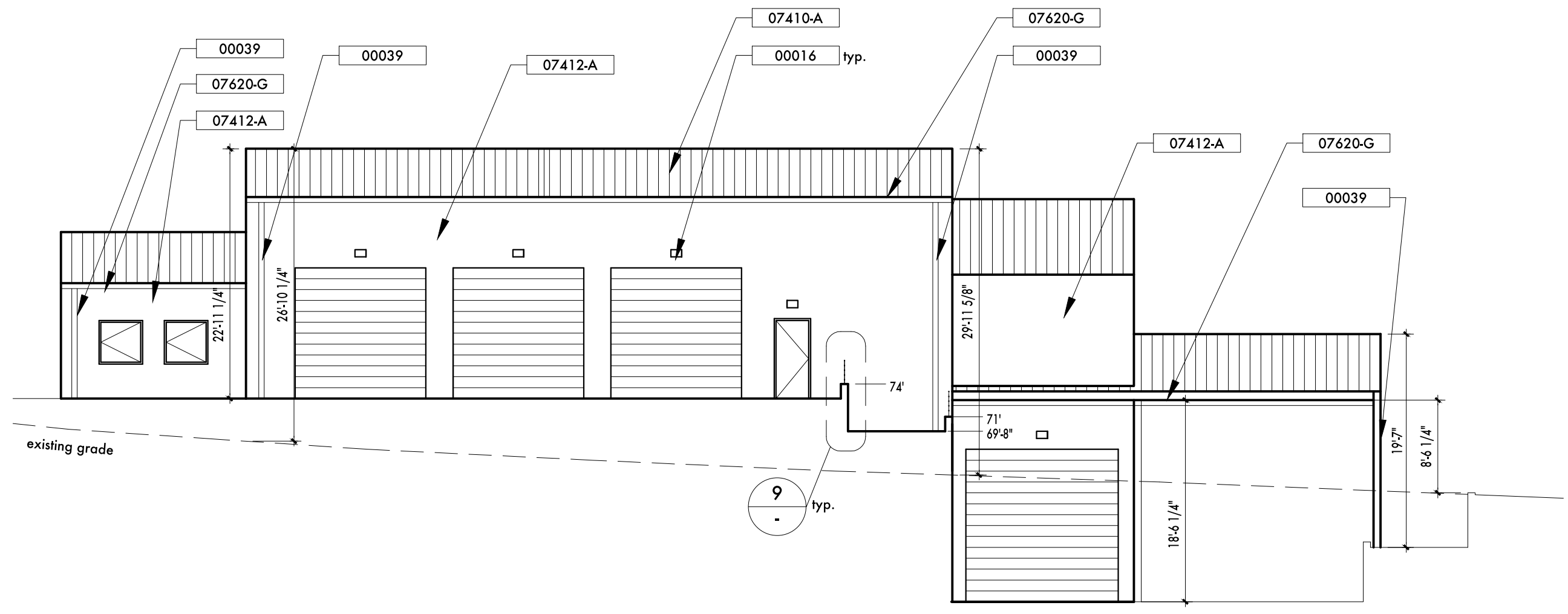
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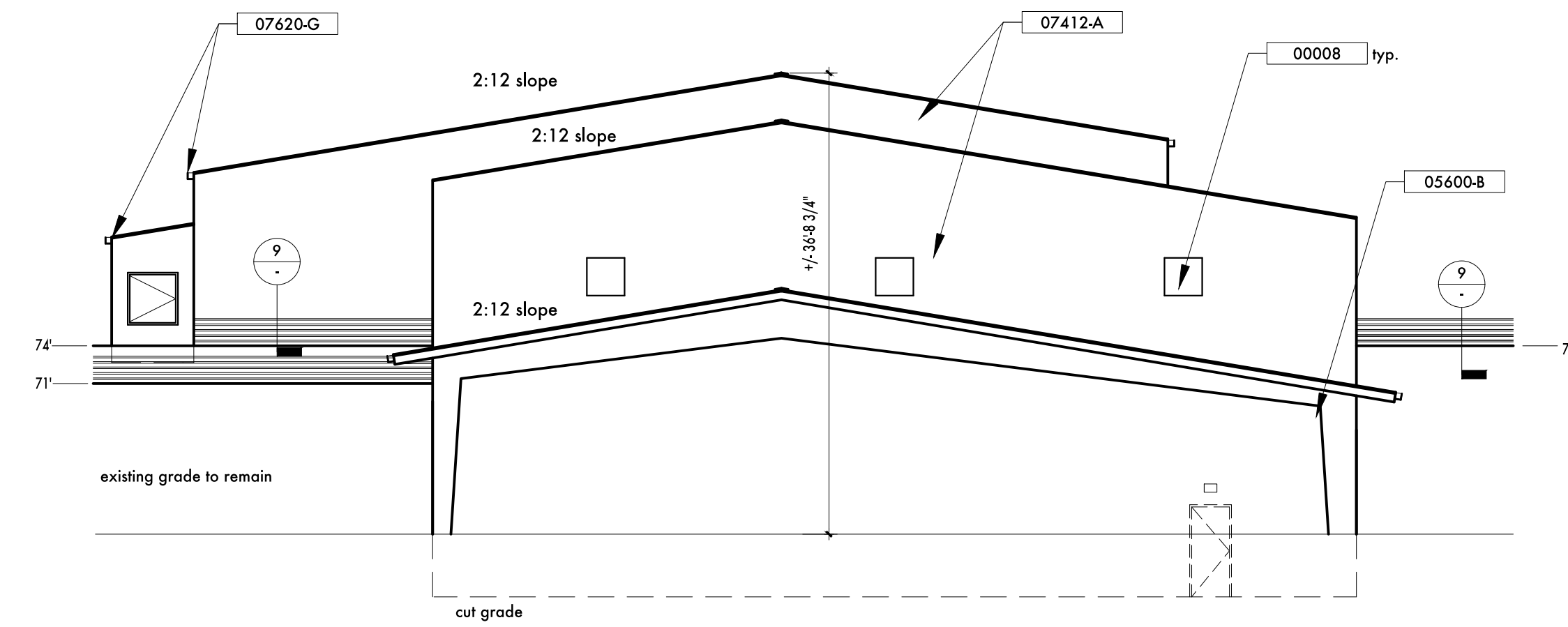
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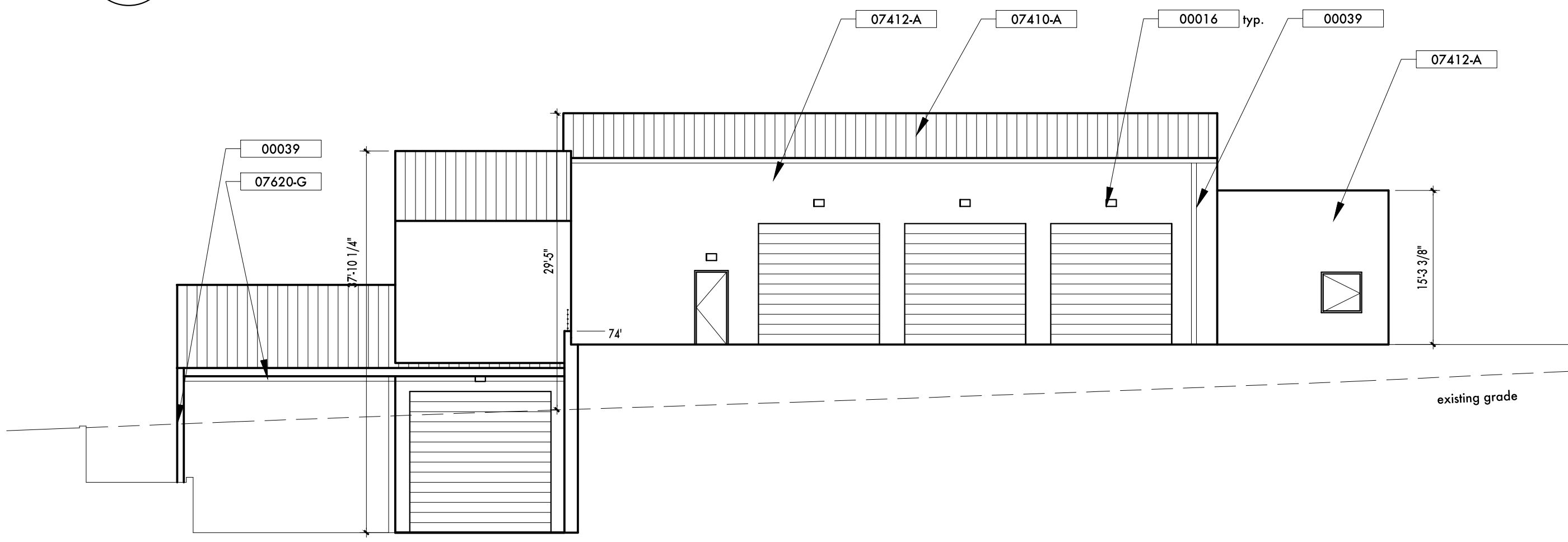
31 of 49



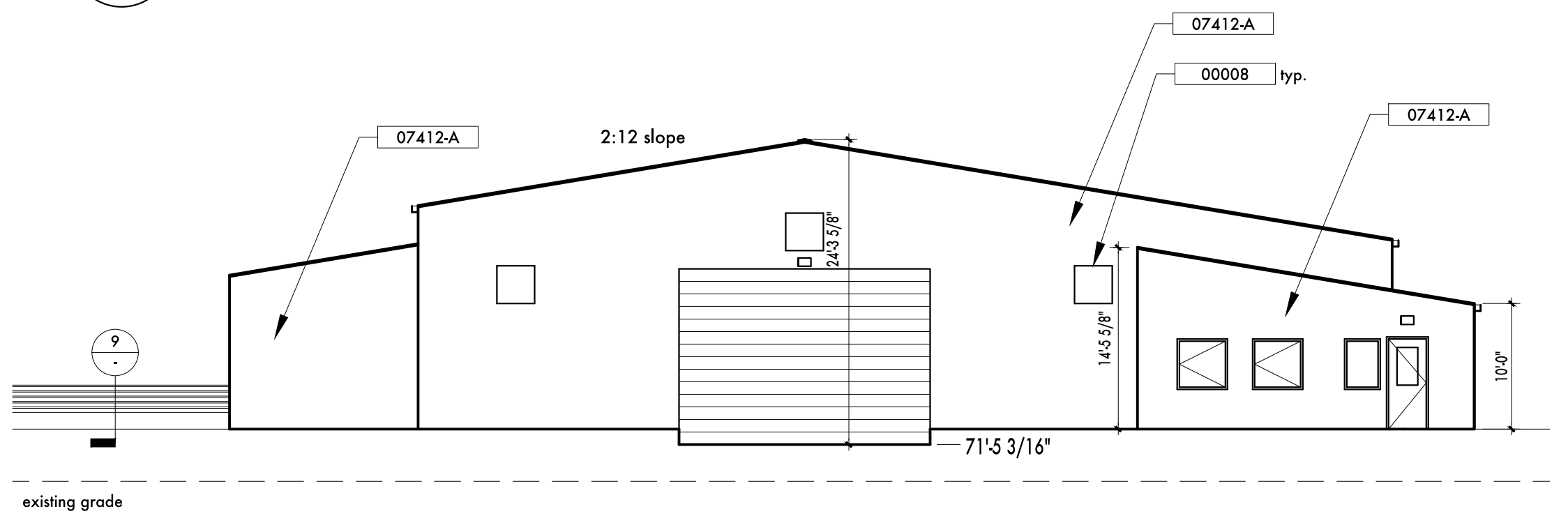
1 ELEVATION - EAST
A2.0 3/32" = 1'-0"



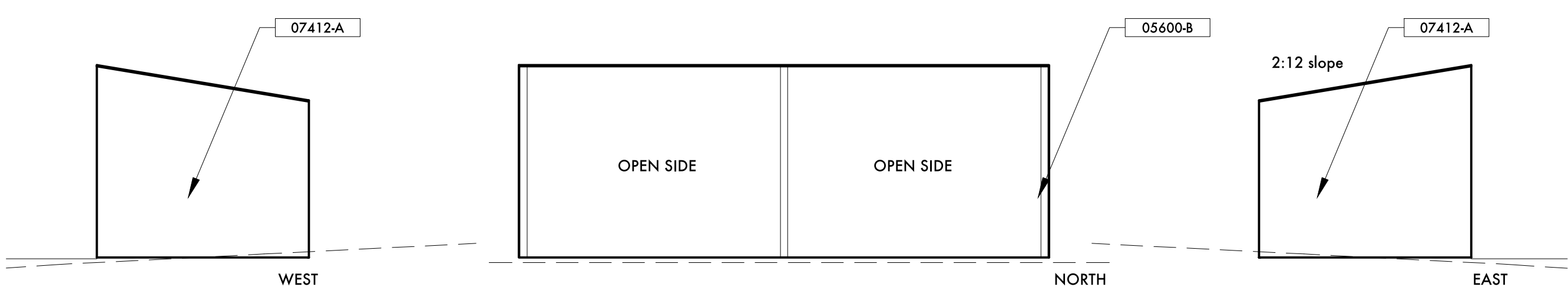
2 ELEVATION - NORTH
A2.0 3/32" = 1'-0"



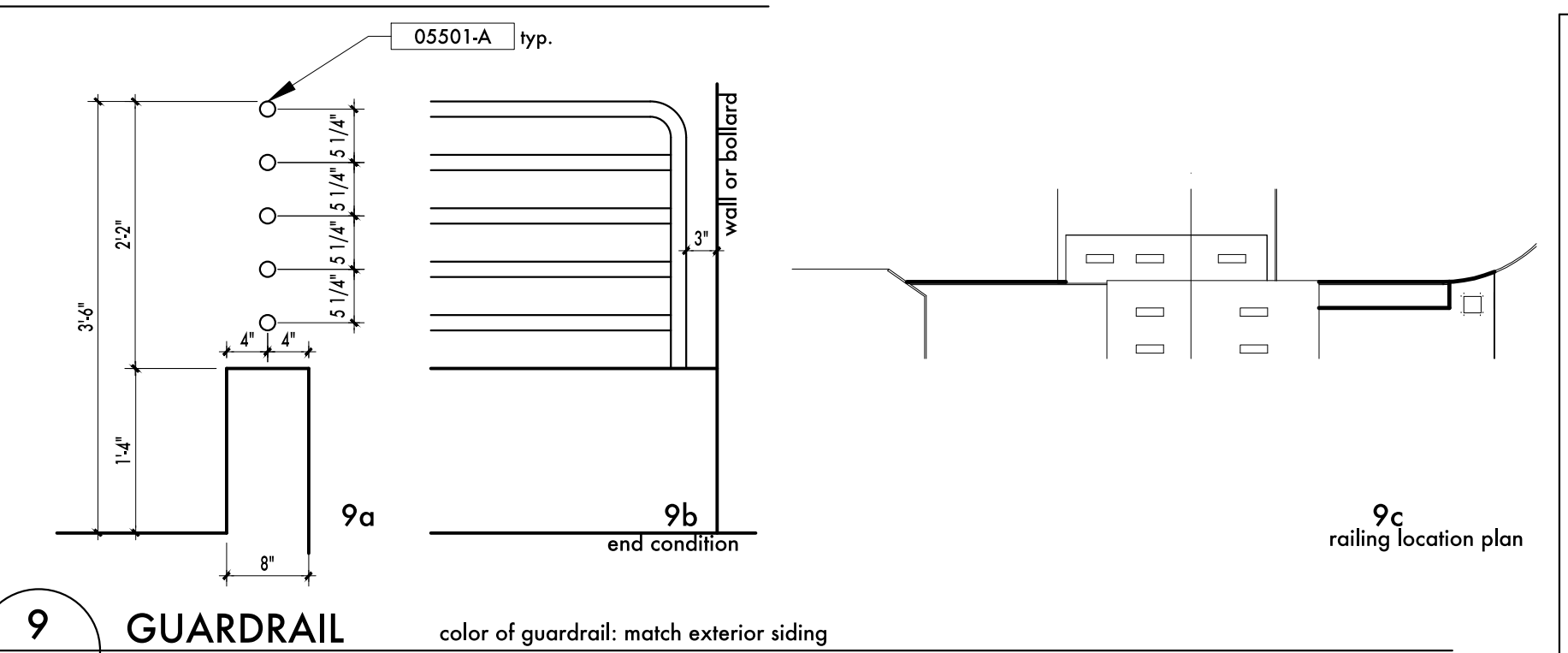
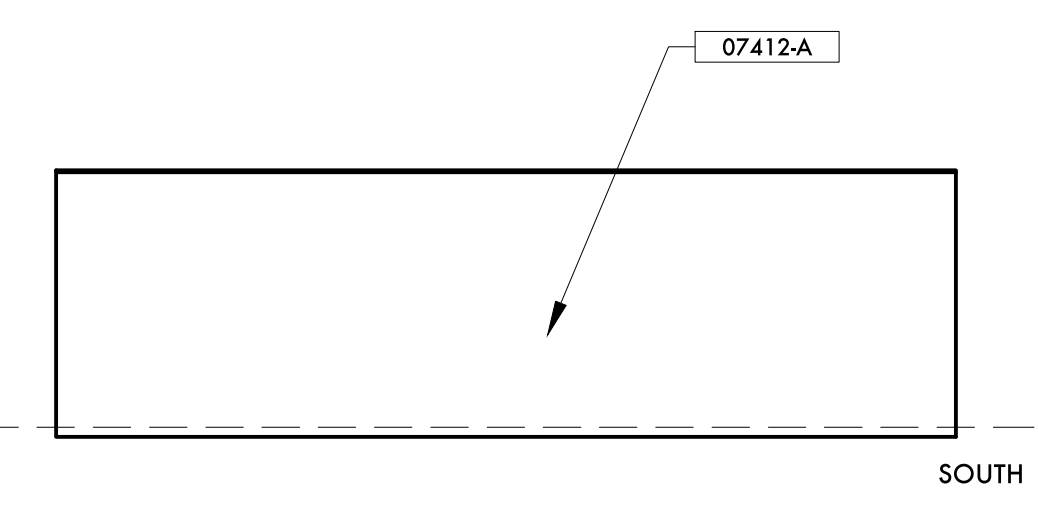
3 ELEVATION - WEST
A2.0 3/32" = 1'-0"



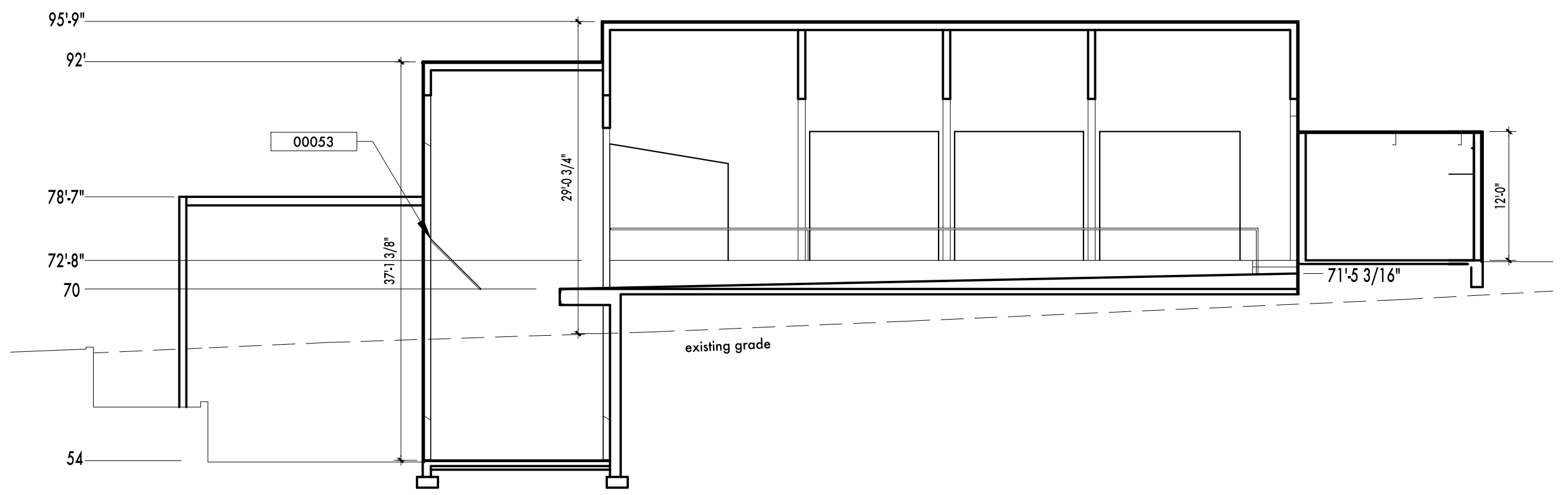
4 ELEVATION - SOUTH
A2.0 3/32" = 1'-0"



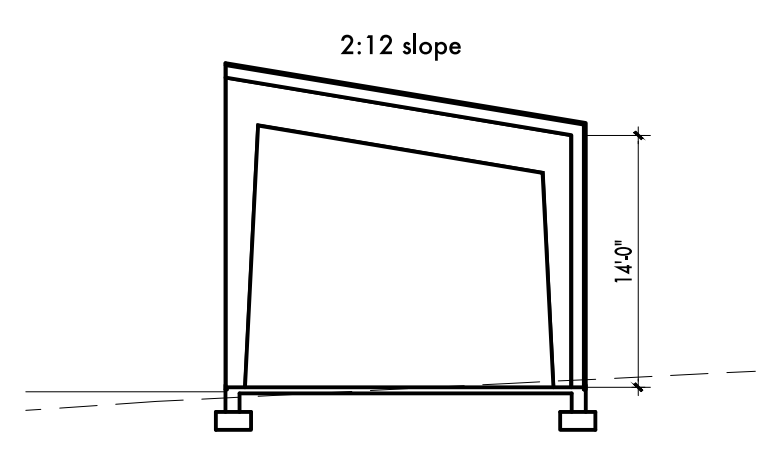
5 ELEVATIONS - RE-USE AREA
A2.0 3/32" = 1'-0"



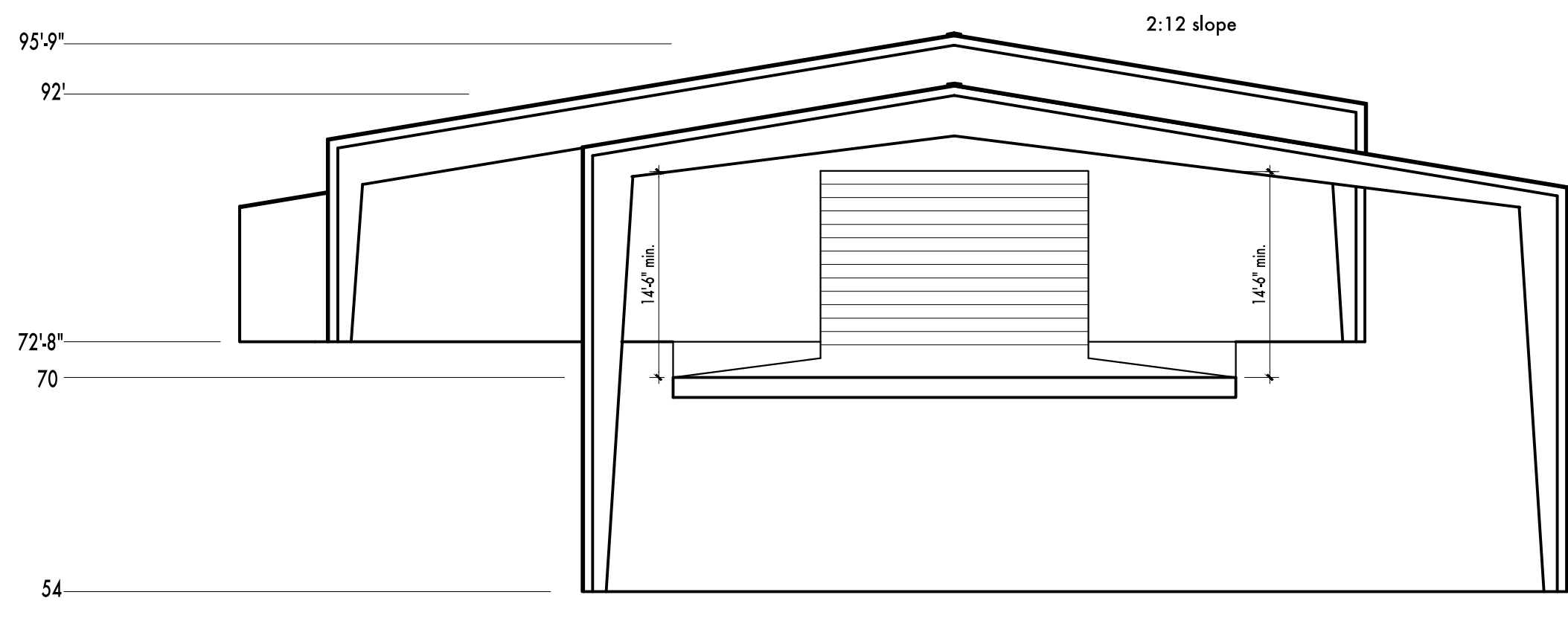
9 GUARDRAIL
A2.0 1/2" = 1'-0"
color of guardrail: match exterior siding



6 SECTION A
A2.0 3/32" = 1'-0"



7 SECTION C
A2.0 3/32" = 1'-0"



8 SECTION B
A2.0 3/32" = 1'-0"

KEYED NOTES, ELEVATIONS/SECTIONS

- 00008 GRILLE/FAN, SEE MECH., PAINT TO MATCH MTL. SIDING
- 00016 LIGHT FIXTURE, SEE ELECTRICAL
- 00039 4X6 DOWNSPOUT, SEE ROOF PLAN
- 00053 METAL CHUTE, SEE STRUCTURAL
- 00055 6" STEEL BOLLARD WITH WELDED EYEHOOK, 42" H
- 00064 METER/OTHER ELEC DEVICE - SEE ELECTRICAL, PAINT TO MATCH METAL SIDING
- 05501-A GUARDRAIL 42" H, 1 1/2" PIPE STEEL, MECHANICALLY ATTACH, PAINTED TO MATCH METAL SIDING
- 05501-H BOLLARDS, 8", CONC. FILLED, SEE DETAIL ON A7.0
- 05600-B METAL BUILDING BENT FRAME
- 07410-A PBR PANEL METAL ROOF
- 07412-A PBM METAL WALL PANEL
- 07620-G 6X6 GUTTER - MATCH METAL SIDING

GENERAL NOTES:

1. Cover all exposed wood with brokemetal
3. Paint all piping, conduit and other wall-mounted items
4. Sections are representative; sections are not drawn for all walls.
5. Min. depth of footings - see Structural.
6. Paint any new gas service regulator, all utility boxes, conduit and pipes to match metal siding.
7. See roof plan for dimensions to gutters/downspouts.
8. Grades shown are representational only, for exact grading, see Civil.
9. Bridging not shown on architectural drawings; see Structural for bridging.
10. Comply with current standards for ADA parking signage, incl. but not limited to size, spacing, height and text.
11. Place control joints exactly as shown.
12. Paint all meters/electrical devices/etc. on outside of building to match siding.

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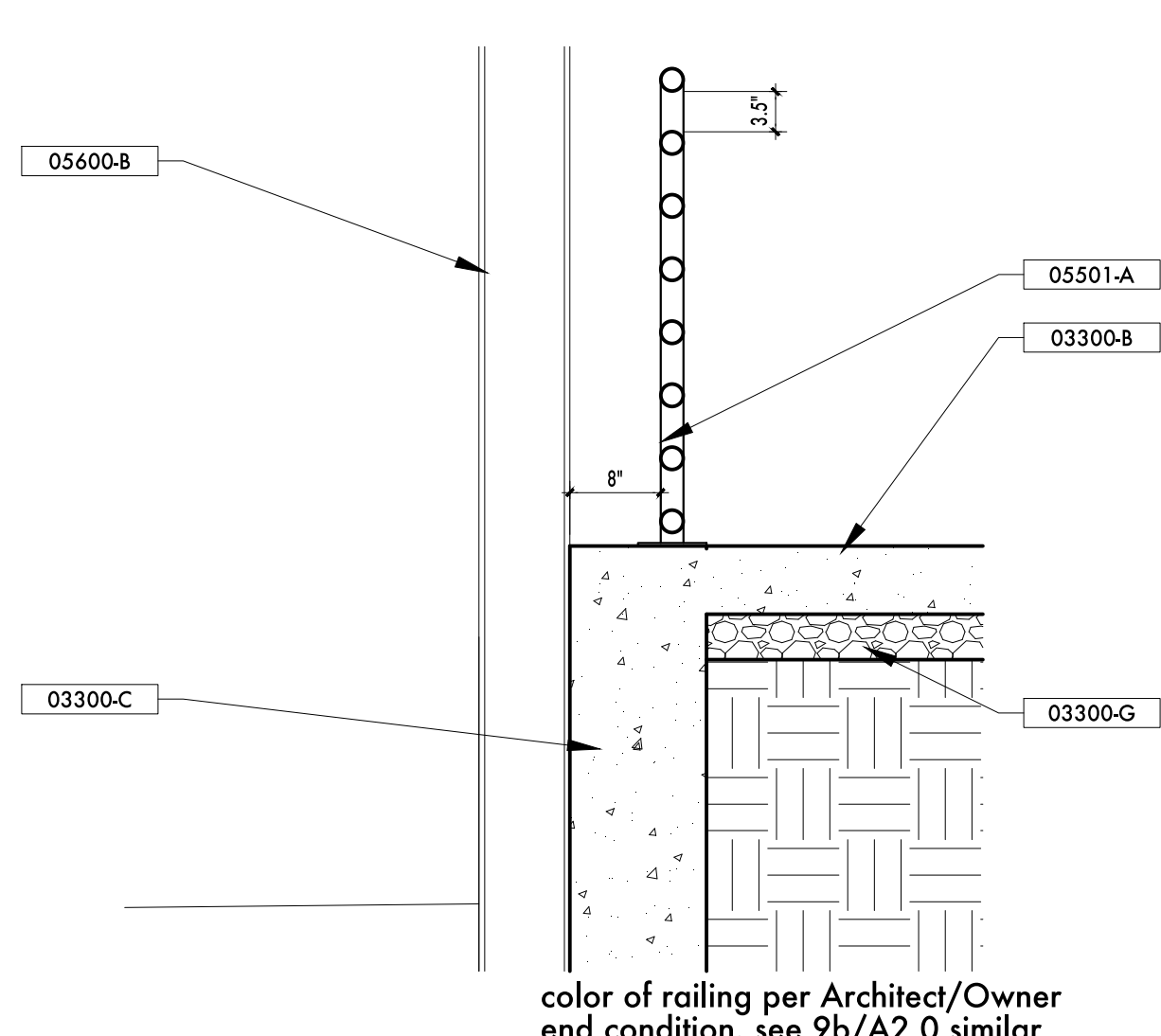


ELEVATIONS
BUILDING SECTIONS

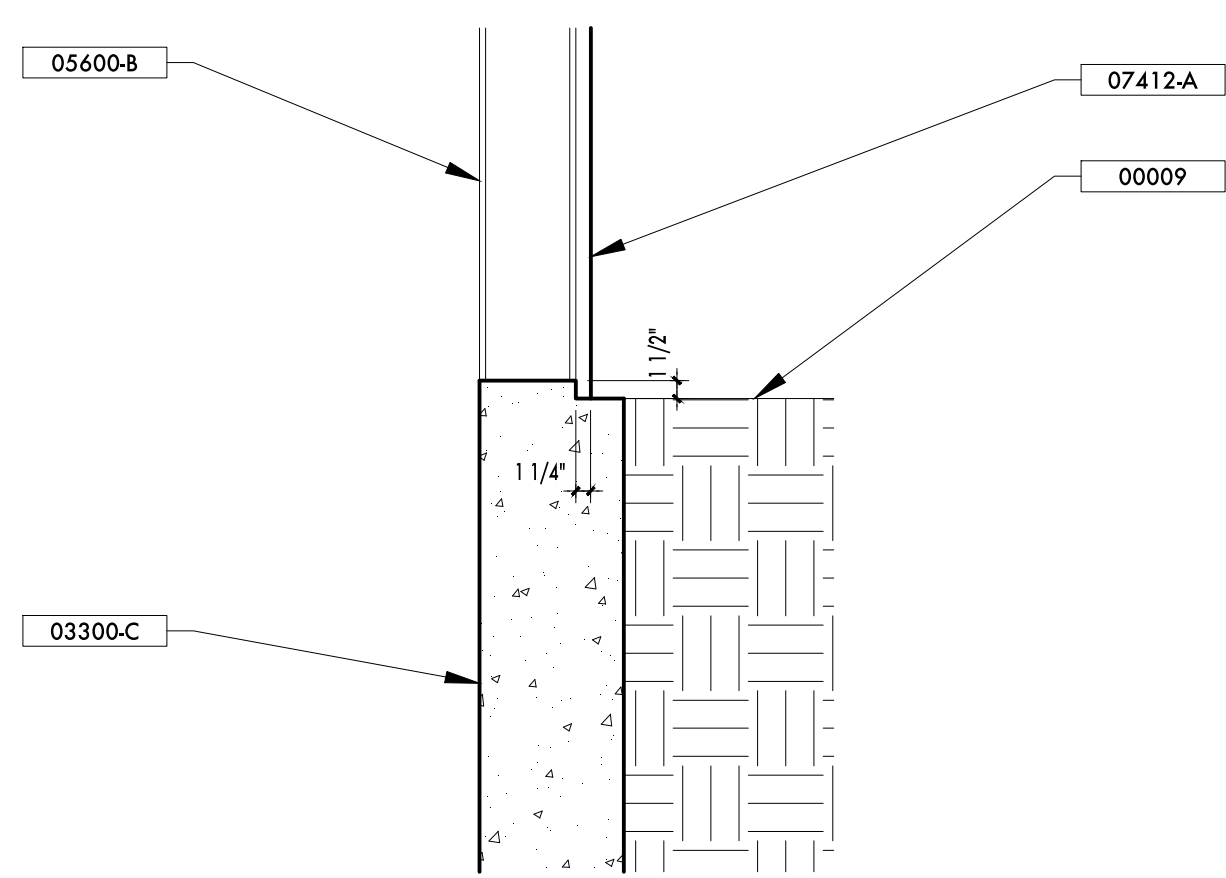


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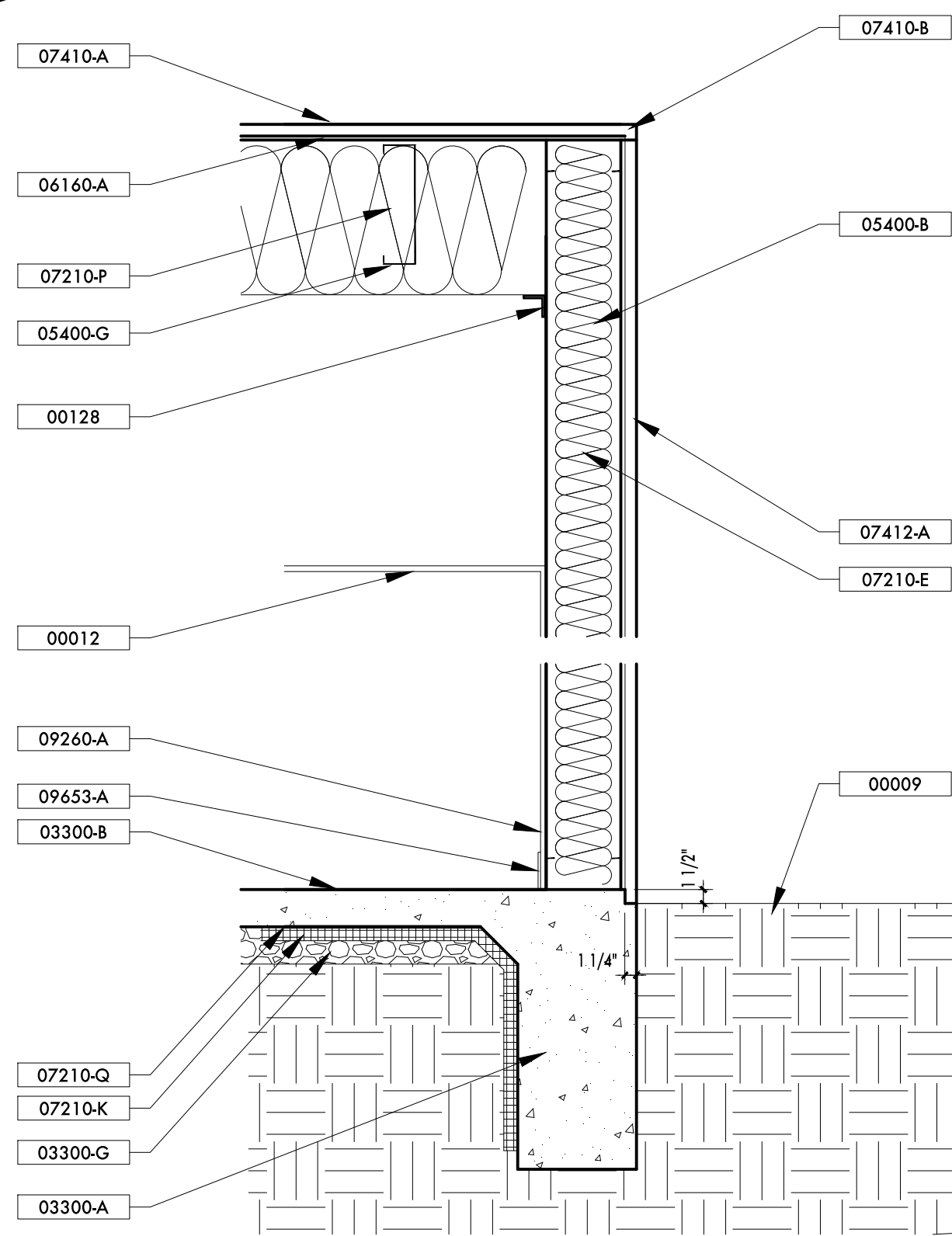
A2.0
32 of 49



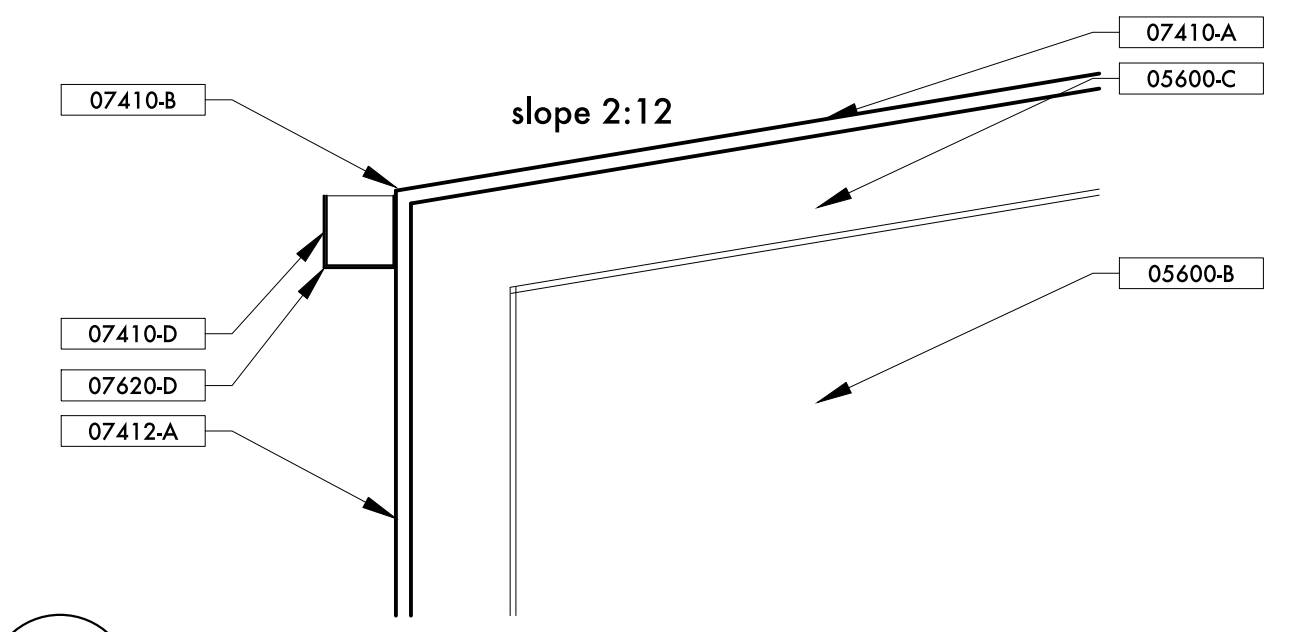
6 WALL SECTION - RETAINING WALL AT GUARDRAIL
A3.0 3/4" = 1'-0"



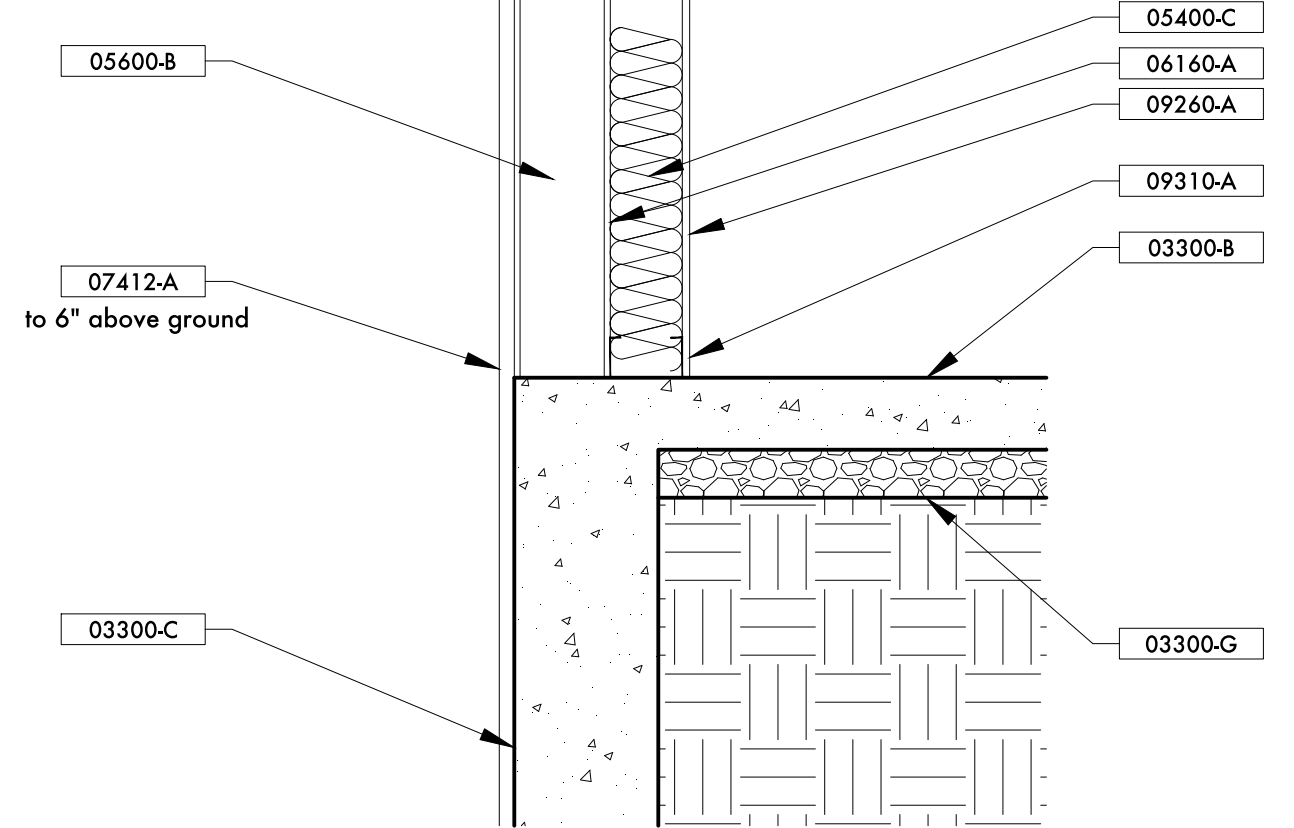
5 WALL SECTION - RETAINING WALL AT TUNNEL EXTERIOR
A3.0 3/4" = 1'-0"



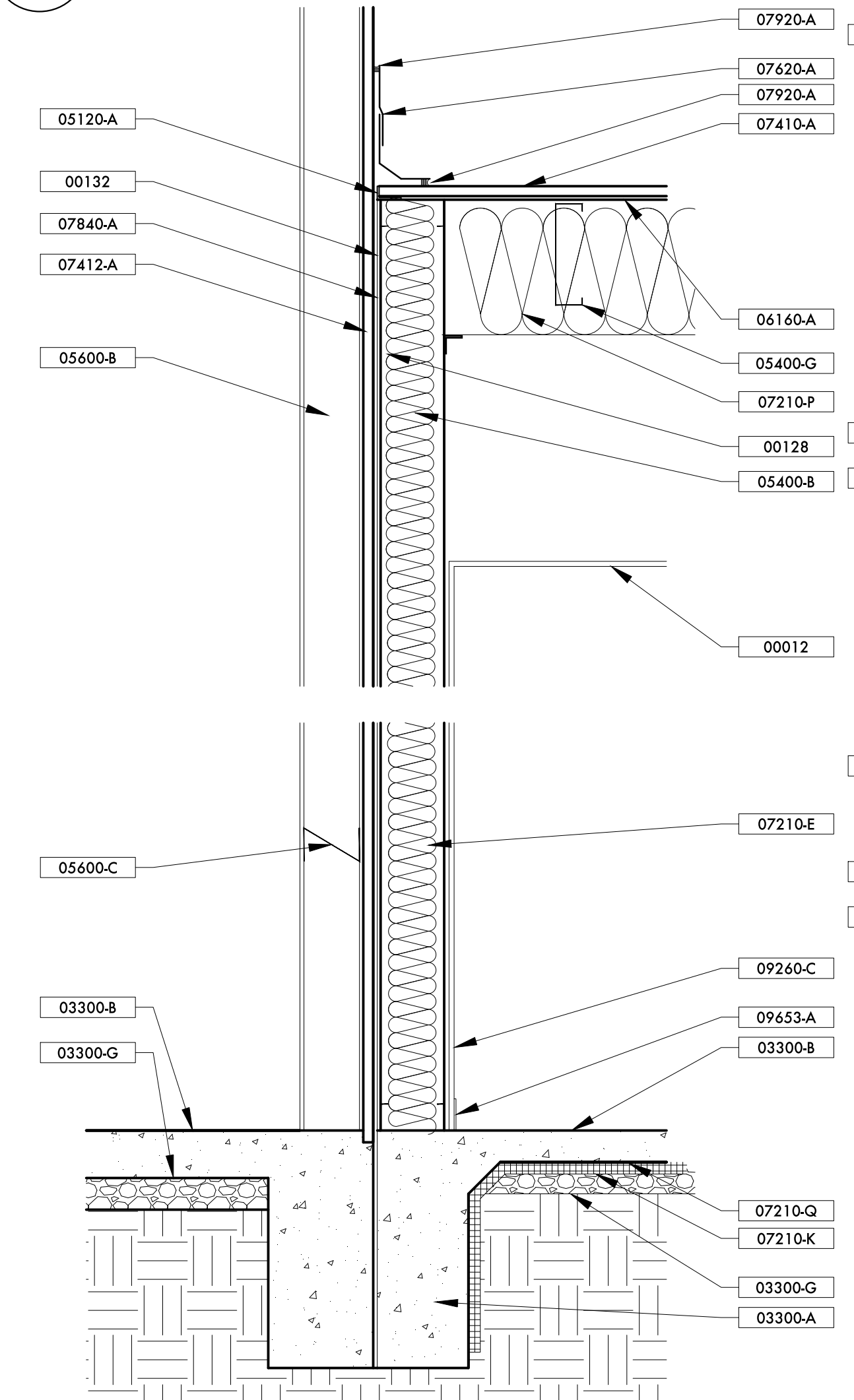
4 WALL SECTION - ADMIN AREA EXTERIOR WALLS
A3.0 3/4" = 1'-0"



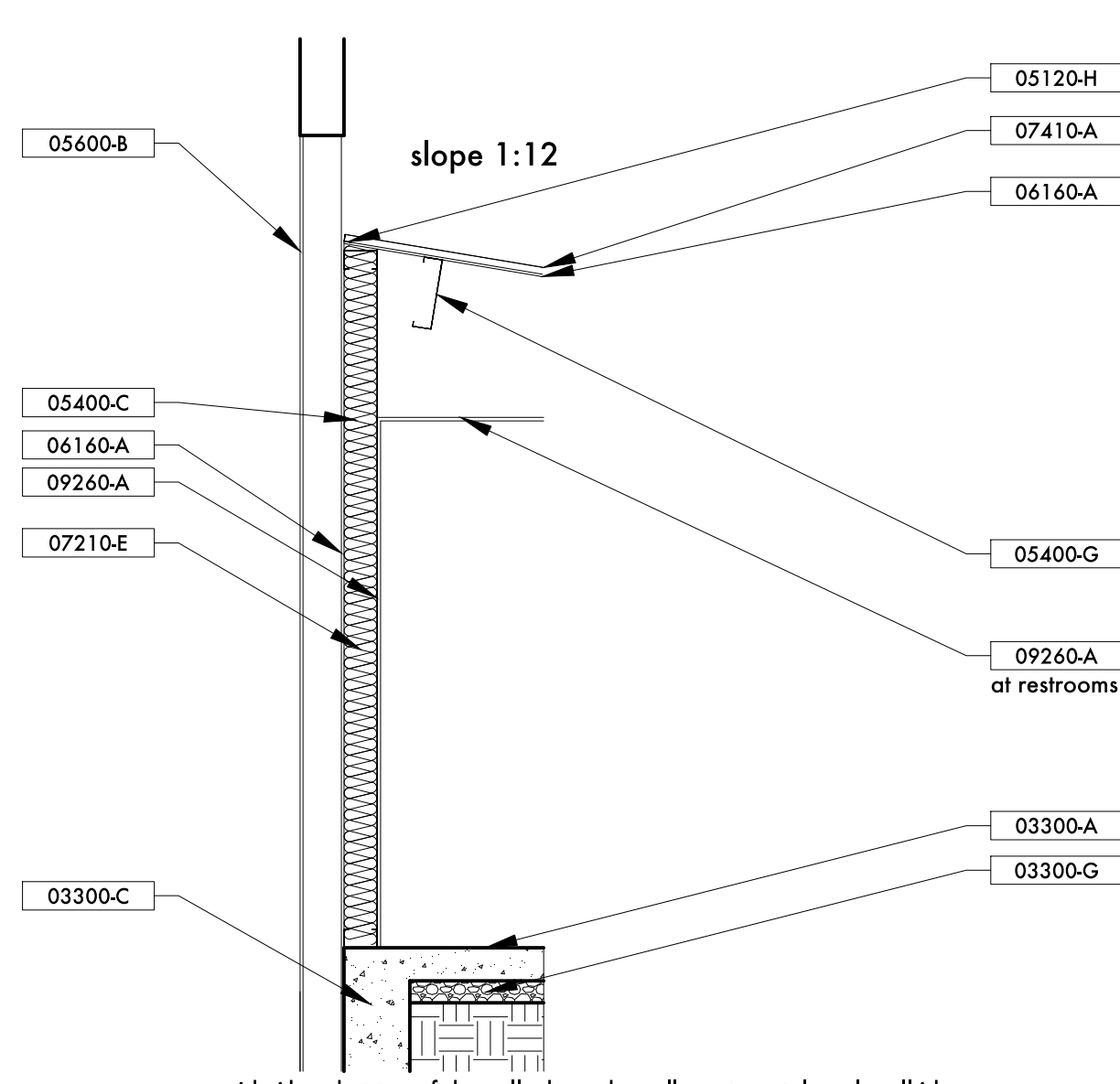
10 SECTION THROUGH SLOPED ROOF
A3.0 3/4" = 1'-0"



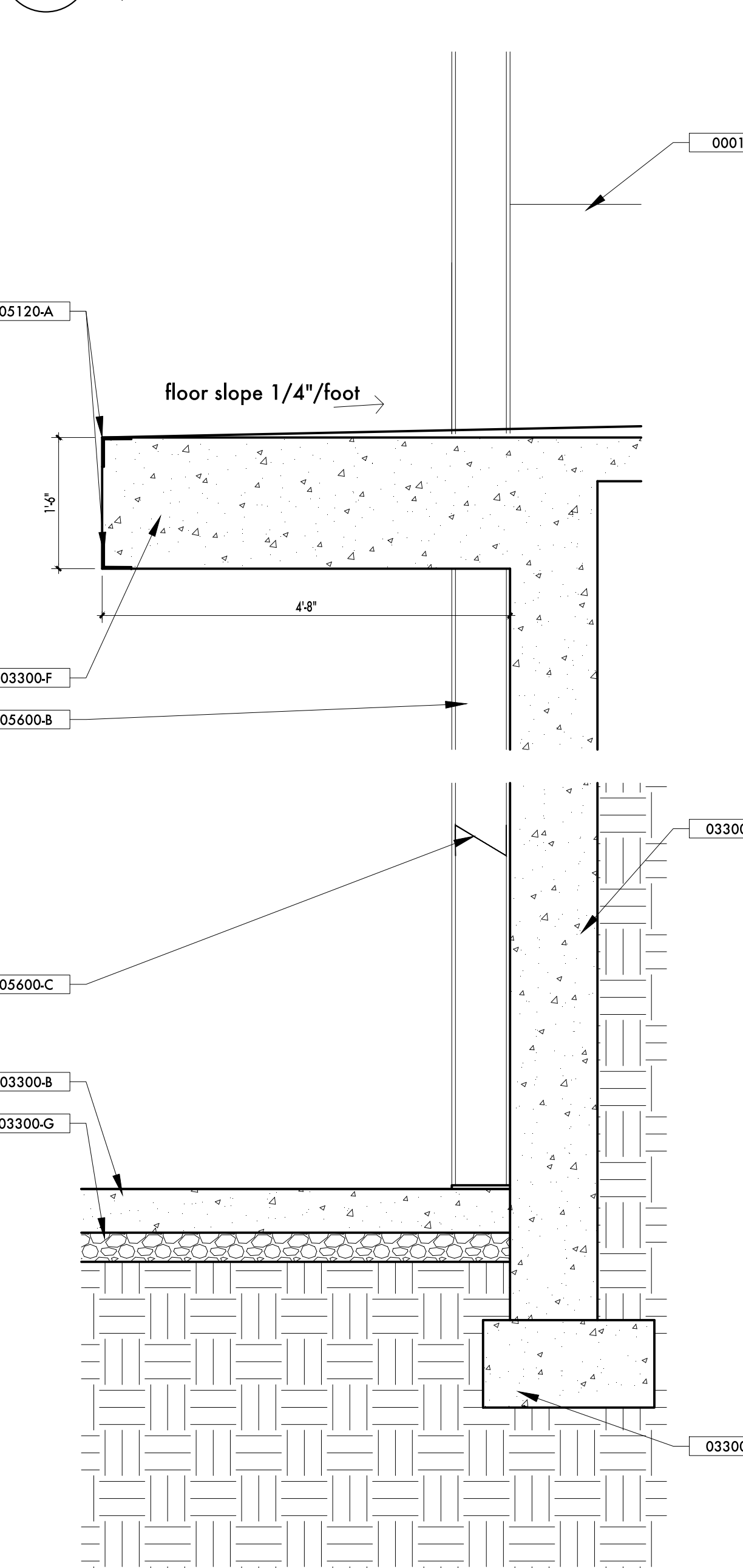
7 WALL SECTION - BATHROOMS TO EXTERIOR
A3.0 3/4" = 1'-0"



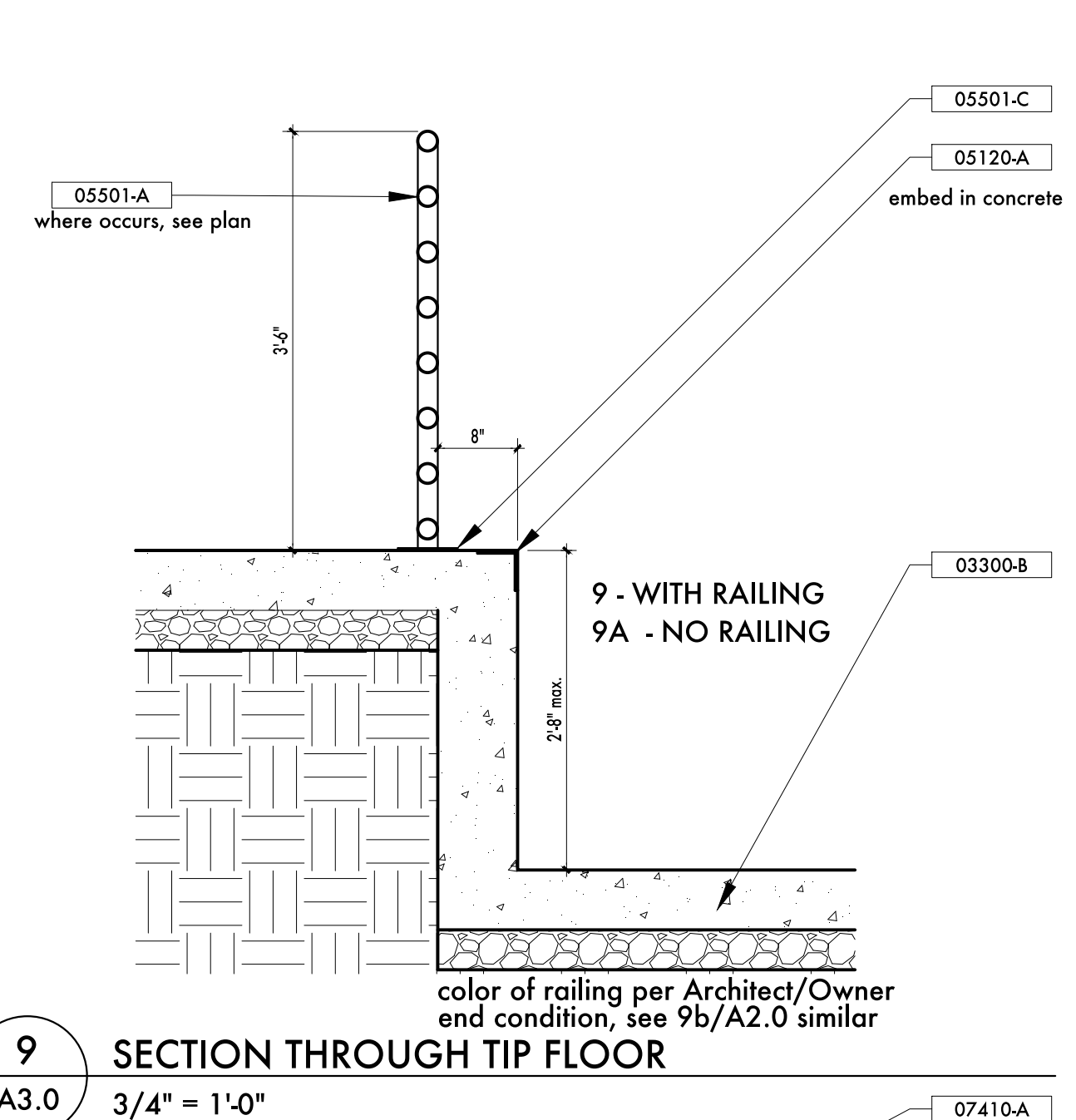
3 WALL SECTION - MAIN BLDG. TO ADMIN AREA
A3.0 3/4" = 1'-0"



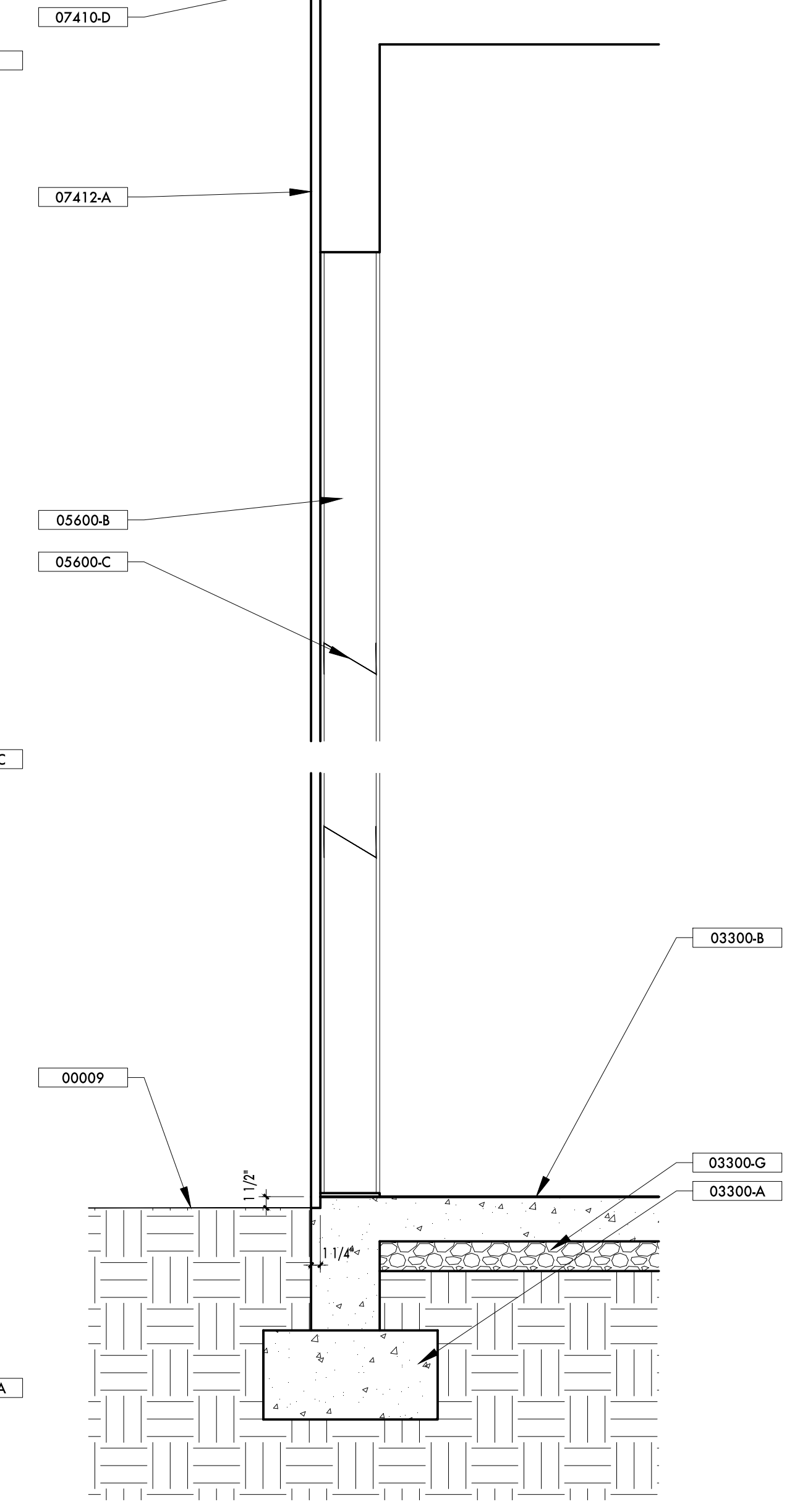
8 WALL SECTION - THROUGH ELECTRICAL
A3.0 3/8" = 1'-0"



2 WALL SECTION - RETAINING WALL AT LIP
A3.0 3/4" = 1'-0"



9 SECTION THROUGH TIP FLOOR
A3.0 3/4" = 1'-0"



1 WALL SECTION - TYPICAL WALL
A3.0 3/4" = 1'-0"

KEYED NOTES, SHEET A3.0

00009	SLOPE FOR POSITIVE DRAINAGE AWAY FROM BUILDING, SEE CIVIL
00010	FLOOR BEYOND
00012	CEILING, SEE FINISH SCHEDULE
0012B	TAPE OFF INSUL AT EDGES OF CEILING, TYP.
00132	1/2" GAP WITH EXPANSION MATERIAL
03300-A	CONCRETE FOOTING, SEE STRUCTURAL
03300-B	CONCRETE SLAB, SEE STRUCTURAL OR CIVIL
03300-C	RETAINING WALL, SEE STRUCTURAL
03300-F	CANTILEVERED CONCRETE UP, SEE STRUCTURAL
03300-G	4" GRAVEL
05120-A	STEEL ANGLE 2x2 OR SIZE TO FIT ROOF MATERIAL, ALL EDGES OF ROOF INTERIOR AREA TYP., PAINT TO MATCH ROOF MATERIAL
05120-H	8" METAL STUD WALL
05400-B	6" METAL STUD WALL
05400-C	4" METAL STUD WALL, SEE STRUCTURAL
05400-G	LIGHTGAGE METAL STUD FRAMING, SEE STRUCTURAL
05501-A	GUARDRAIL 42" H, 2" PIPE STEEL, MECH. ATTACHED, PAINTED
05501-B	4X4 METAL ANGLE, INSET, SEE STRUCTURAL
05501-C	ROUND BASEPLATE WELDED TO RAILING, BOLT TO CONC. FLOOR, SEE STRUCTURAL
05600-B	METAL BUILDING
05600-C	GIRT
06160-A	1/2" OSB SHEATHING, SEE STRUCT.
07210-E	BATT INSULATION, R19
07210-K	1 1/2" RIGID INSULATION BOARD
07210-P	R38 BATT INSULATION, FSK VAPOR BARRIER FACED, MEET ALL FIRE CODES
07210-Q	6 MIL POLYETHYLENE VAPOR BARRIER
07410-A	METAL ROOF - R-PANELS, EXPOSED FASTENERS PBR PANELS
07410-B	TRIM/FASCIA/EDGE FLASHING TO MATCH ROOF PANELS
07410-D	6X6 18 GA. BOX GUTTER, FINISH TO MATCH FASCIA, PROVIDE BLOCKING AND BACKING AS REQUIRED
07412-A	METAL FLASHING AND COUNTERFLASHING AS REQ'D
07620-A	METAL FLASHING AND COUNTERFLASHING AS REQ'D
07620-D	DRIP EDGE
07840-A	FIRE STOP MATERIAL FOR 1 HOUR RATED WALLS, AS REQUIRED FOR RATING
07920-A	BACKER ROD/SEALANT, CAULK/SEAL AS REQ'D
09260-A	3/4" GYPSUM BOARD, TYPE "X" WHERE RATED, ABUSE BOARD WHERE NOTED
09260-C	TWO LAYERS TYPE X GYPSUM BOARD FOR 1 HOUR RATING (OR OTHER CONFIGURATION AS REQUIRED TO ACHIEVE RATING)
09310-A	WALL TILE
09511-A	SUSPENDED ACOUSTICAL TILE CEILING
09653-A	WALL BASE

GENERAL NOTES:

1. Insulate all exterior below grade stemwalls with 1 1/2" rigid insulation board at Admin area and all heated areas.
2. Sections are representative; sections are not drawn for all walls.
3. Min. depth of footings - see structural.
4. Fascia, braketmetal and downspout color, as selected by architect from full range of manufacturer colors including premium colors.
5. All wood to be stained/finished.

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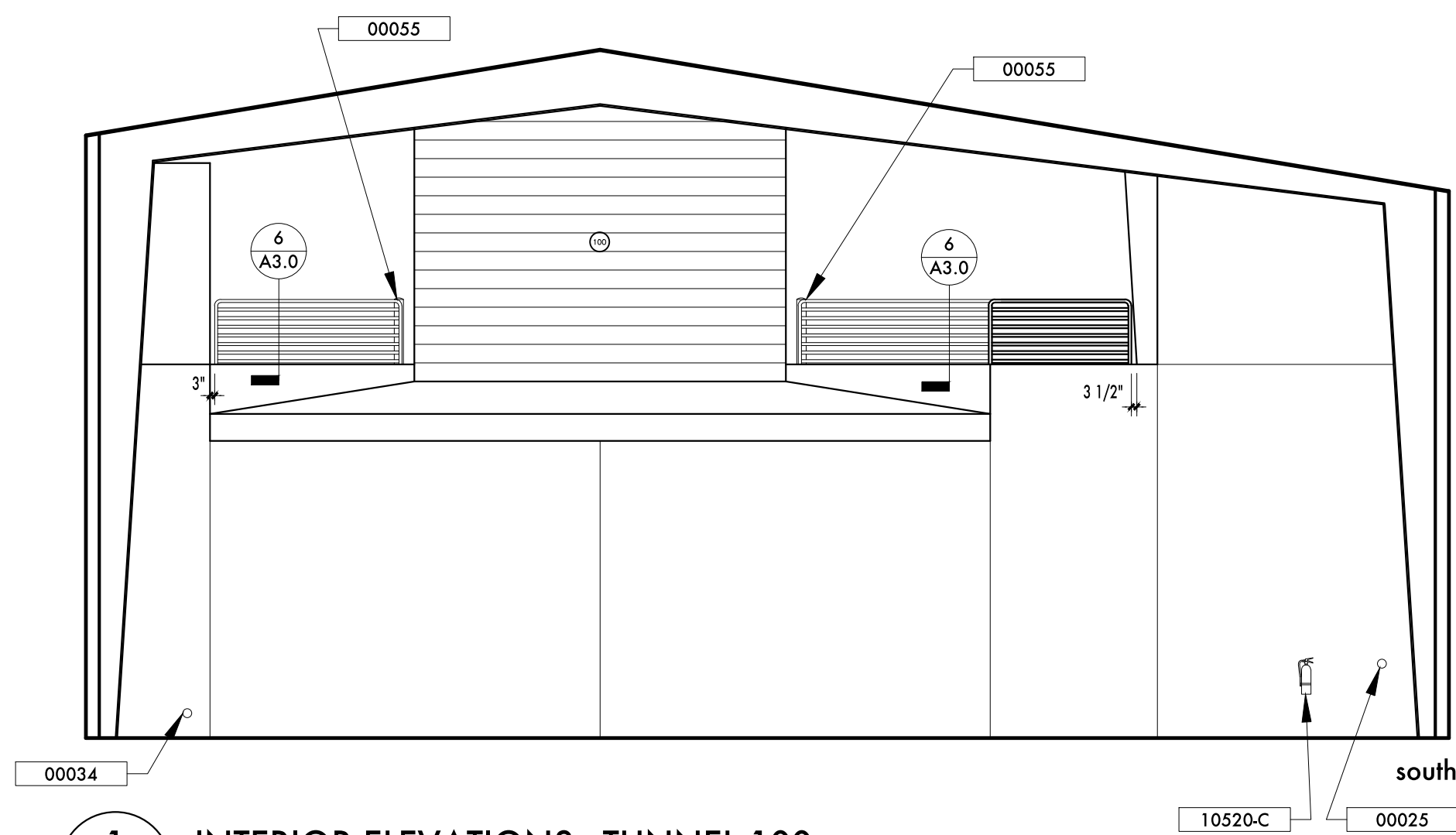
Revisions

STATE OF NEW MEXICO
Marc L. Riskin
No. 2977
9.10.15
REGISTERED ARCHITECT

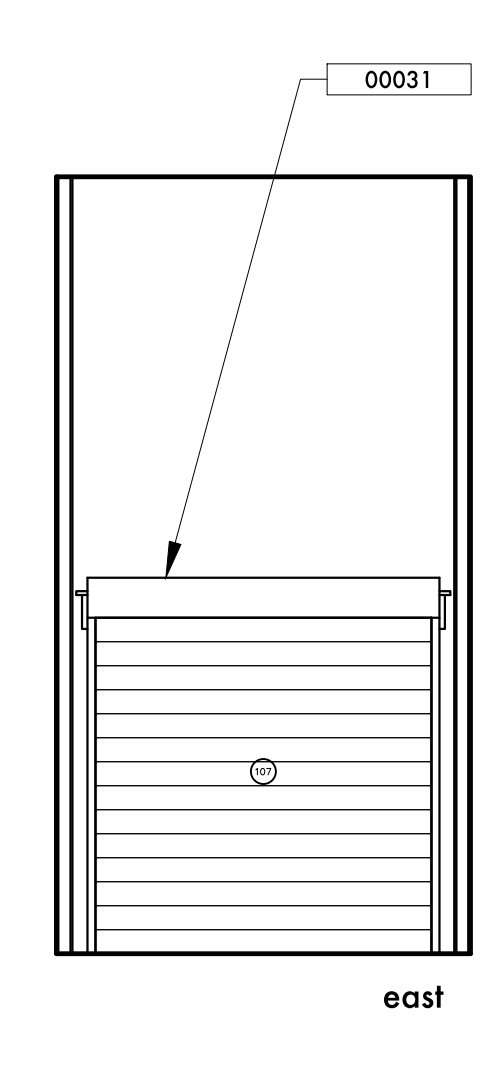
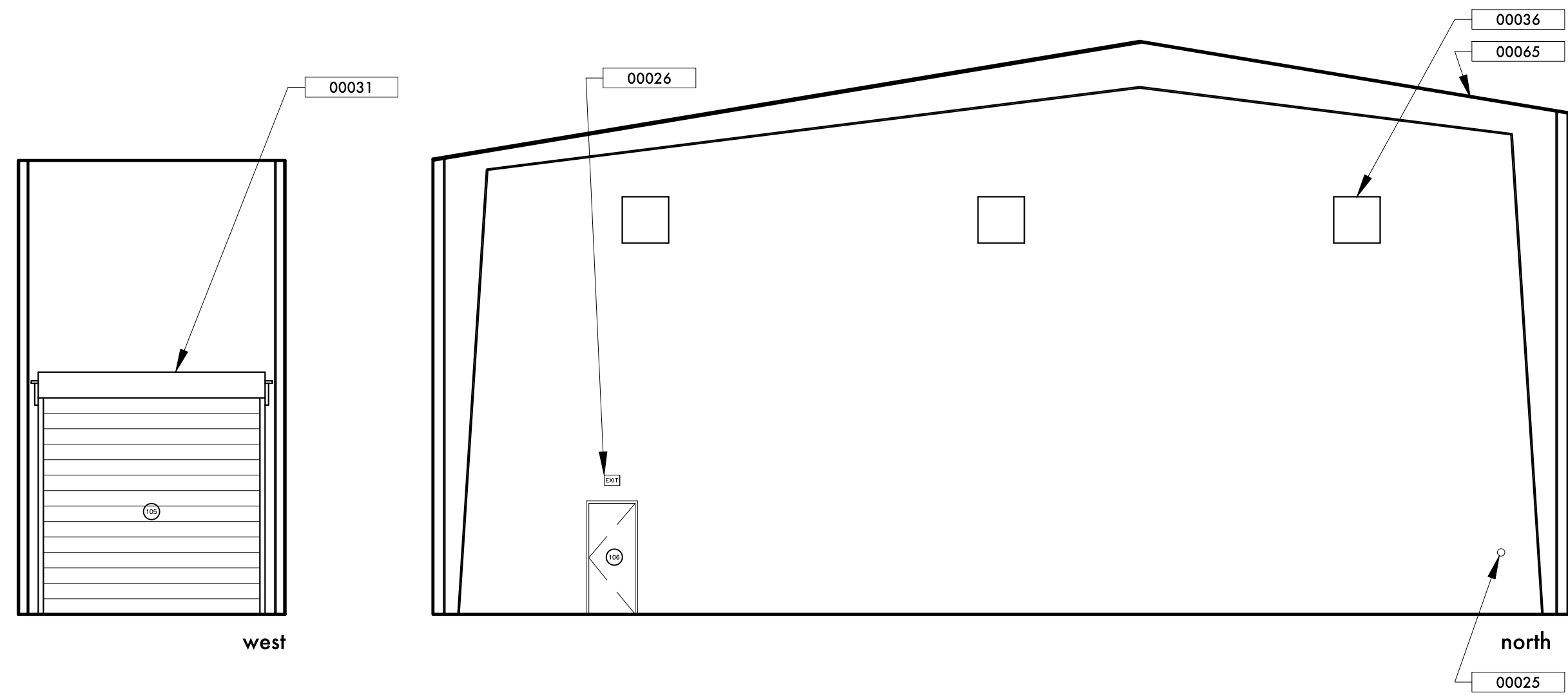
**WALL SECTIONS
DETAILS**

RISKIN ASSOCIATES ARCHITECTURE
221 E. Hilborn Avenue, Suite C
Santa Fe, New Mexico 87501
505.826.8722 FAX 505.826.8722
www.riskinassociates.com

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9.10.15
A3.0
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1 INTERIOR ELEVATIONS - TUNNEL 100
A4.0 1/8" = 1'-0"

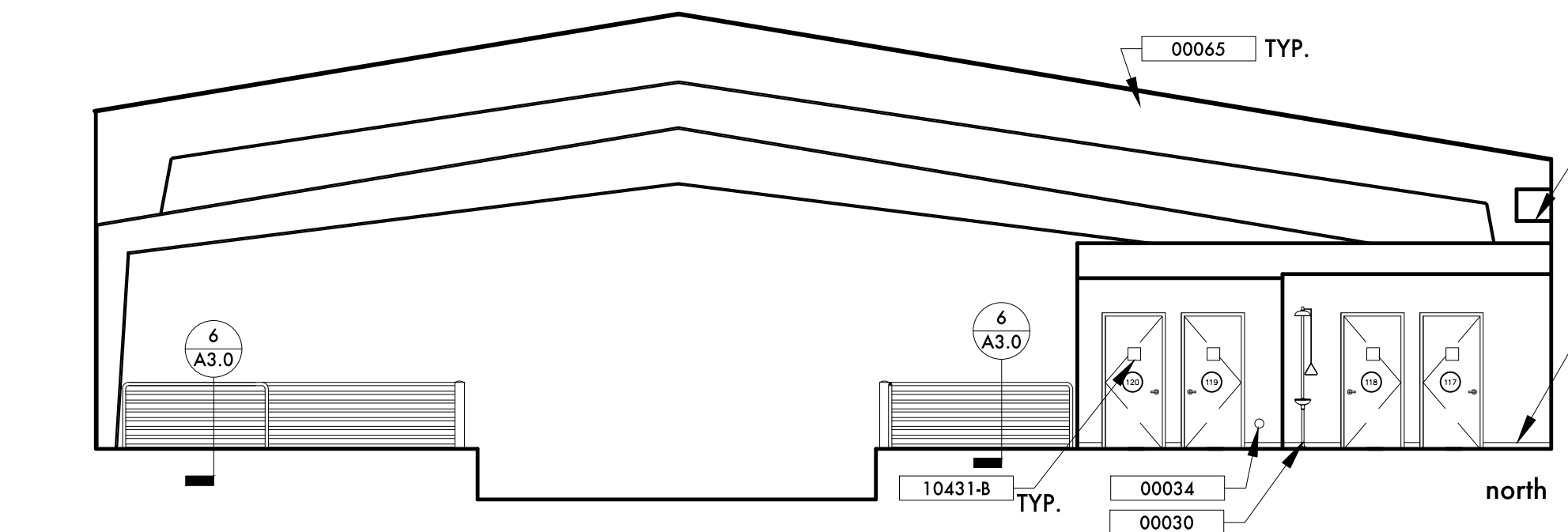


KEYED NOTES, SHEET A4.0

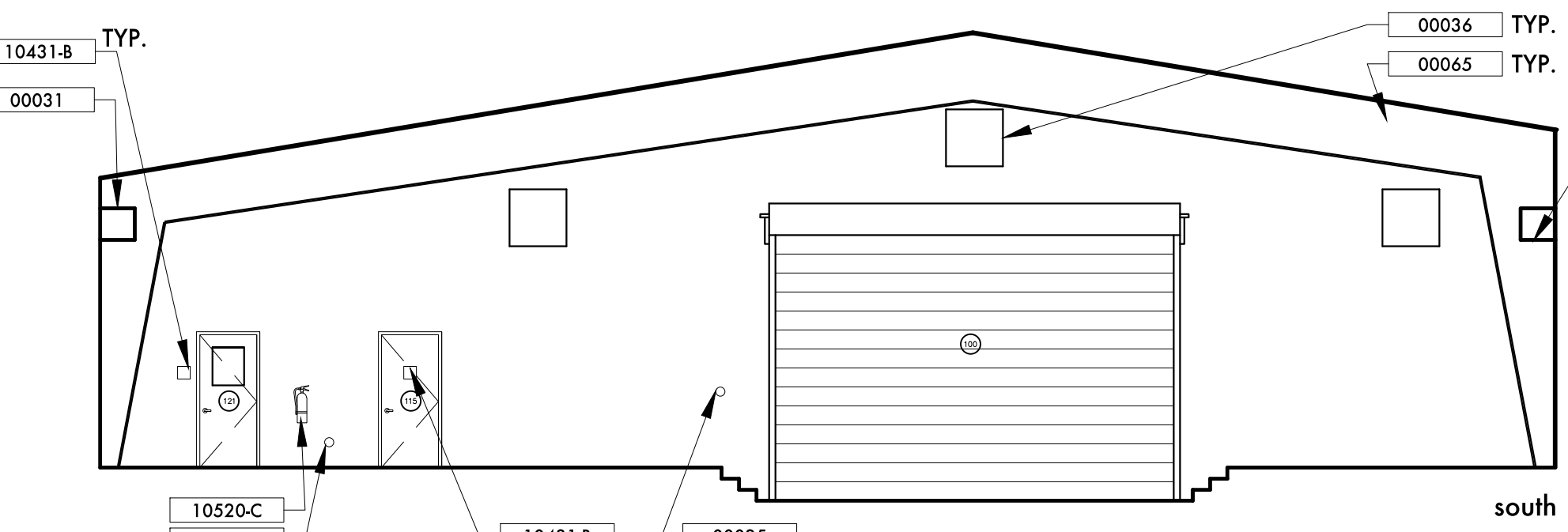
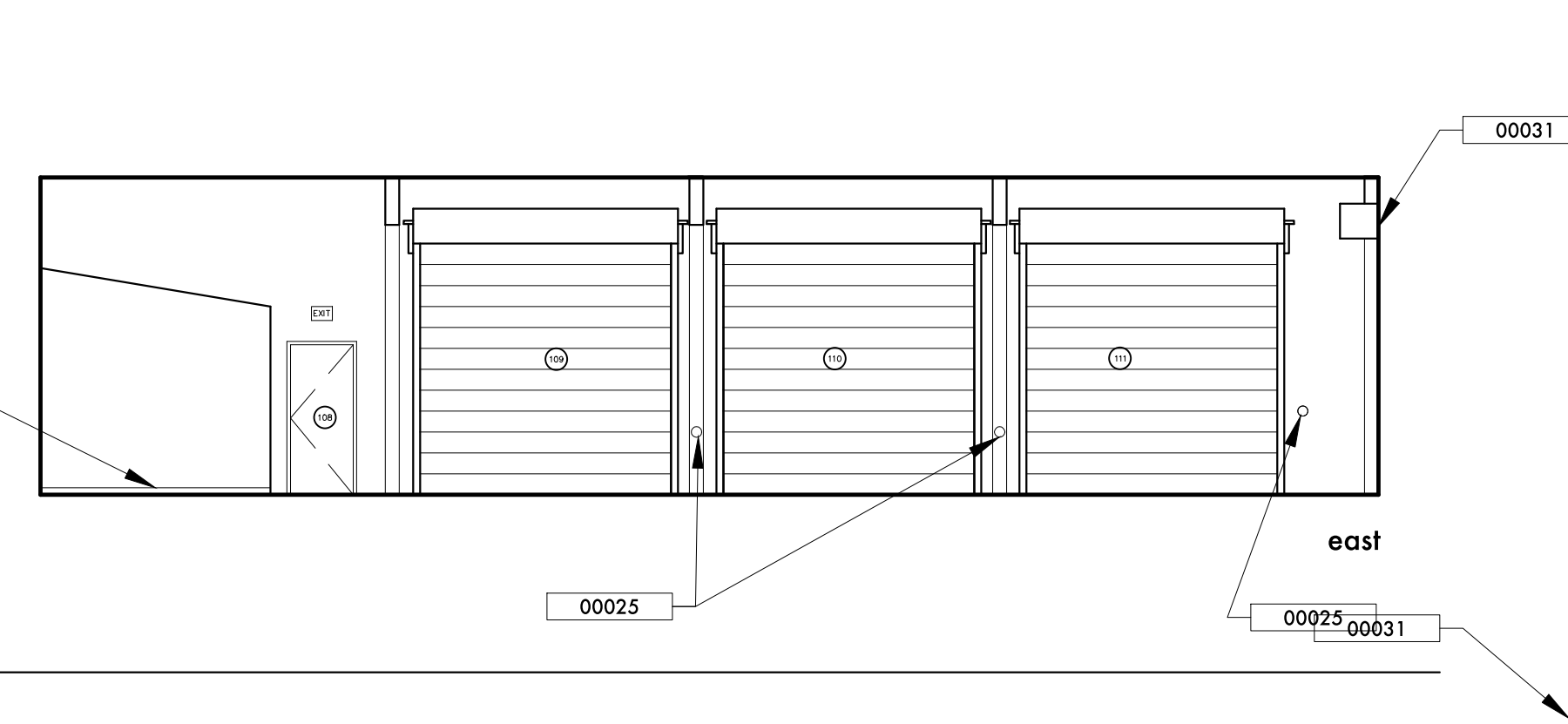
- 00025 CONTROLLER FOR COILING DOOR - LOCATE W/OWNER
- 00026 LIGHT FIXTURE, SEE ELECTRICAL
- 00030 EMERGENCY SHOWER/EYEWASH - SEE PLUMBING
- 00031 COILING DOOR HOUSING - PROVIDE ADEQUATE CLEARANCE
- 00034 HOSE/BIB, SEE PLUMBING, MOUNT AT LOCATION SHOWN IN INTERIOR ELEVATIONS
- 00035 PLUMBING TRAP COVER, SEE PLUMBING
- 00036 GRILL AND FAN SYSTEM - SEE MECHANICAL
- 00065 EXPOSED STRUCTURE AND DECK, PAINTED
- 09310-B TILE WALL - SEE FINISH SCHEDULE
- 09653-A RUBBER WALL BASE
- 10431-B ROOM SIGN, 8"x8"
- 10520-C FIRE EXTINGUISHER, ON BRACKET, MOUNT TOP @ 34" A.F.F.
- 10801-A TOILET PAPER DISPENSER
- 10801-B PAPER TOWEL HOLDER
- 10801-C MIRROR
- 10801-D SOAP DISPENSER
- 10801-E 18" GRAB BAR
- 10801-F 42" GRAB BAR
- 10801-G 36" GRAB BAR

GENERAL NOTES:

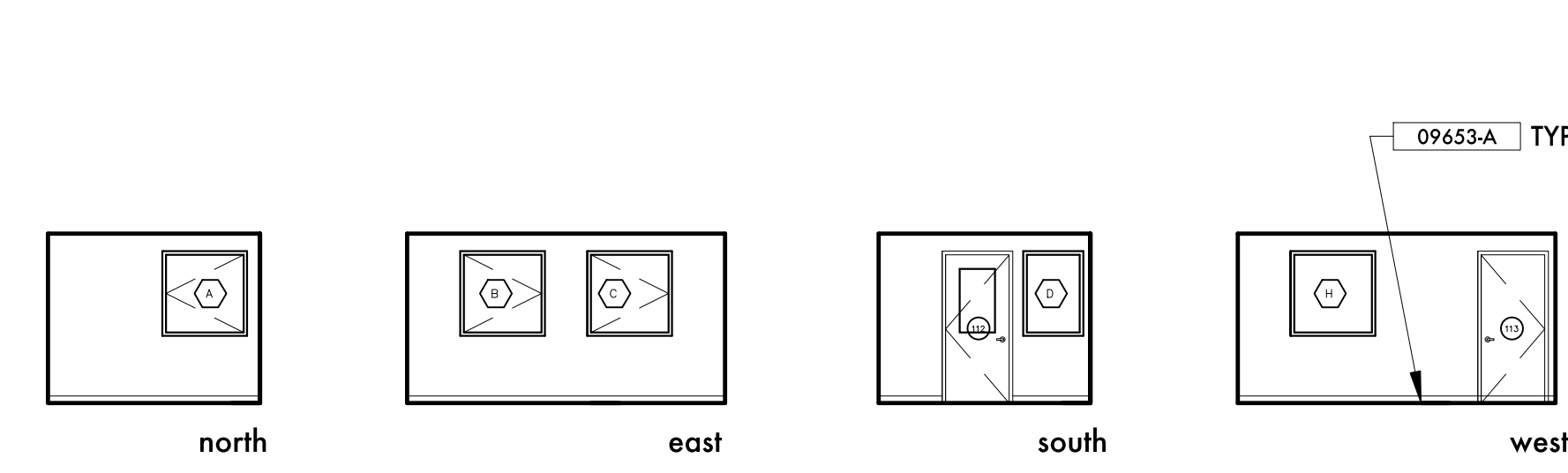
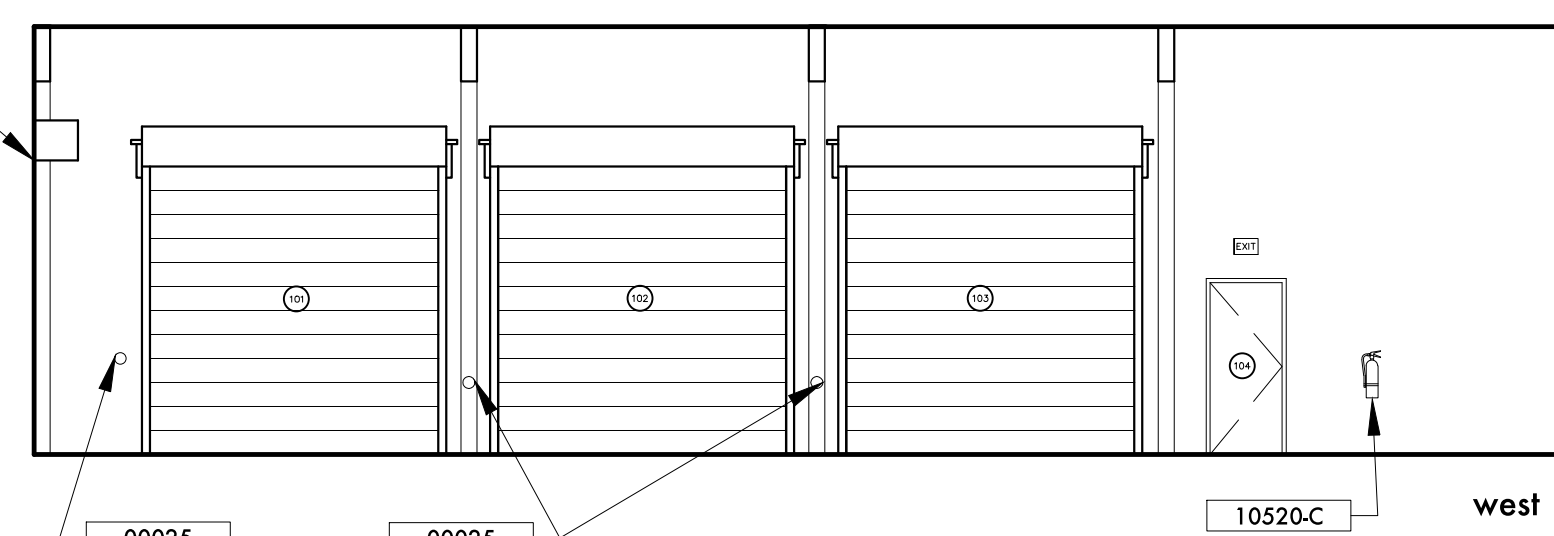
1. Mount signs 3" from centerline to finish floor and 10" from centerline to edge of door frame, unless sign is on door. If sign is on door, center horizontally and mount 5" from centerline to finish floor.
2. Mount fire extinguishers according to manufacturer's instructions for disabled accessibility.
3. Room sign list, spec. section 10431.
4. Provide blocking for all wall-mounted specialties/items and equipment.
5. Base and wall materials: see Finish Schedule.
6. All exposed pipe under sinks to have plumbing trap covers.
7. Lavatory handles to meet ADA requirements, see plumbing.
8. Keep clearances as required by code.
9. Provide sheet metal cover for conduits extending from or below electrical panels.
10. Coordinate wall-mounted items (including but not limited to clocks, mirrors, casework, file cabinets, restroom accessories) with mechanical and electrical devices before roughing in and installing mechanical and electrical items. Dimensions and locations for wall-mounted items shown on interior elevations take precedence over locations shown on mechanical and electrical drawings. Report any conflicts to the Architect for resolution prior to roughing in electrical.



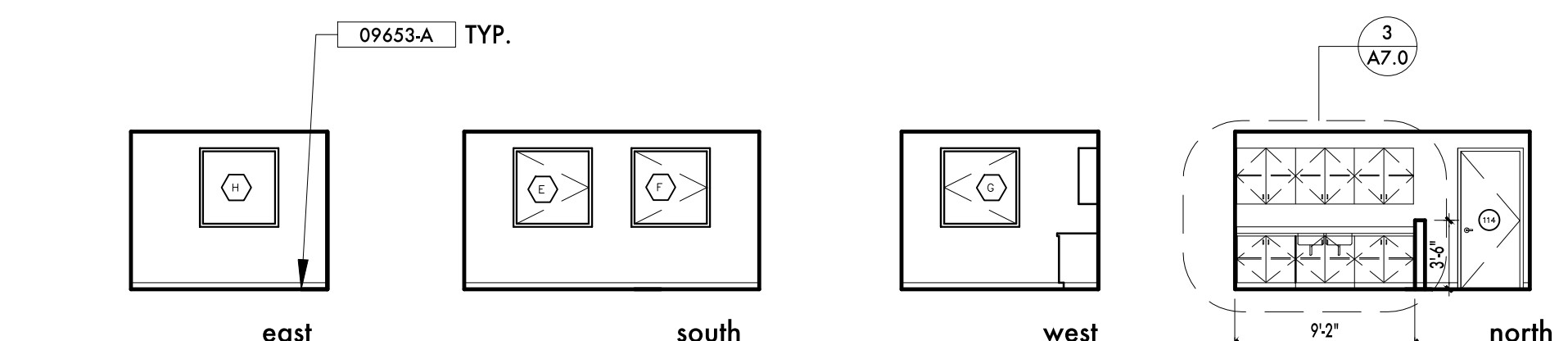
2 INTERIOR ELEVATIONS - WASTE 101/TIP FLOOR 102/RECYCLING 103
A4.0 1/8" = 1'-0"



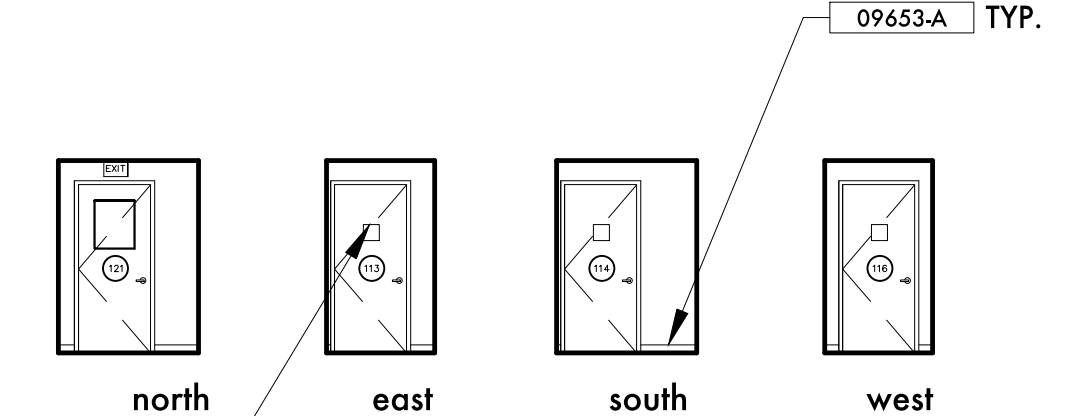
2 INTERIOR ELEVATIONS - WASTE 101/TIP FLOOR 102/RECYCLING 103
A4.0 1/8" = 1'-0"



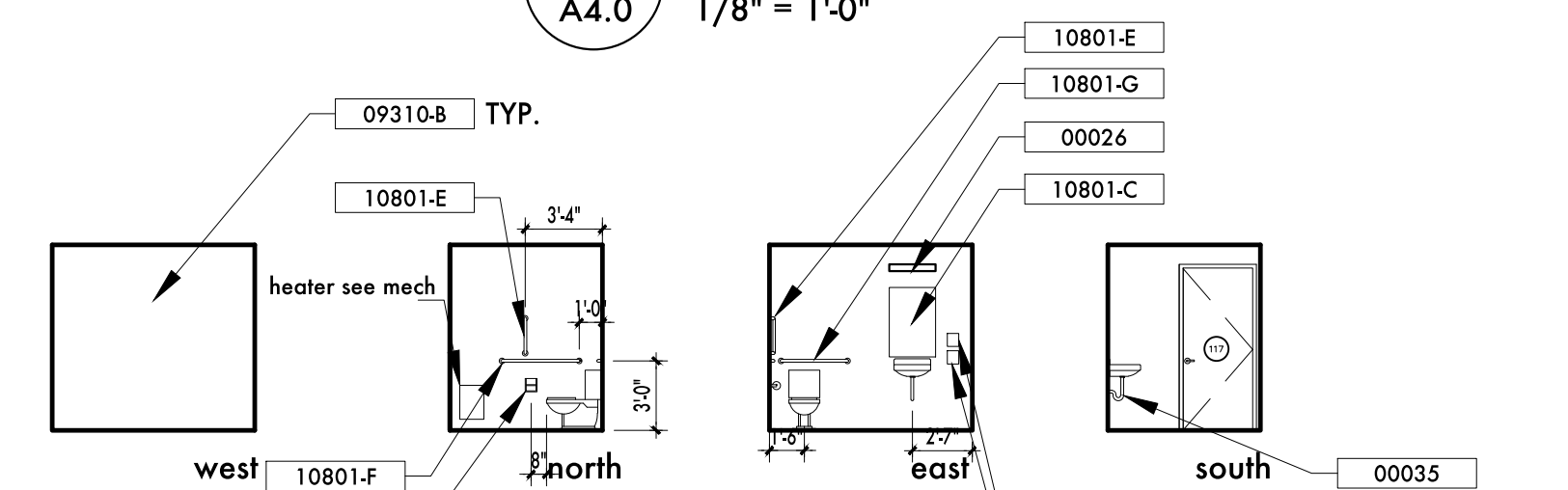
3 INTERIOR ELEVATIONS - CHECK-IN/OFFICE 105
A4.0 1/8" = 1'-0"



4 INTERIOR ELEVATIONS - BREAKROOM 106
A4.0 1/8" = 1'-0"



5 INTERIOR ELEVATIONS - HALLWAY 104
A4.0 1/8" = 1'-0"



6 INTERIOR ELEVATIONS - MEN'S RESTROOM 109 (WOMEN'S 110 REVERSED)
A4.0 1/8" = 1'-0"

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INTERIOR ELEVATIONS

RISKIN ASSOCIATES ARCHITECTURE
 127 E. Palace Avenue, Suite C
 Santa Fe, New Mexico 87502
 505.826.6122 fax 505.826.6122
 www.riskinassociates.com

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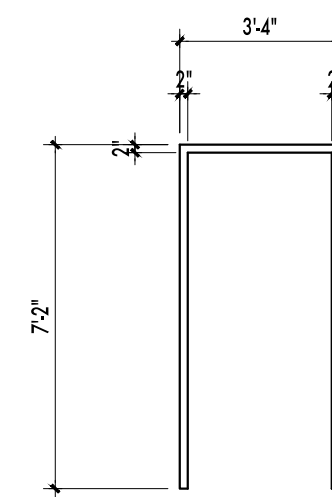
NO.	ROOM NUMBER/NAME	SIZE (W x H NOMINAL)	TYPE	MATERIAL	GLAZING	H.W. SET	FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SILL	RATING	REMARKS
100	102 Tip Floor	20'-0" x 14'-0"	C	STEEL	none	3	factory	sectional	by door mfg	factory	14/A6.0	13/A6.0	15/A6.0	-	
101	101 Waste Unloading	12'-0" x 12'-0"	C	STEEL	none	3	factory	sectional	by door mfg	factory	14/A6.0	13/A6.0	15/A6.0	-	
102	101 Waste Unloading	12'-0" x 12'-0"	C	STEEL	none	3	factory	sectional	by door mfg	factory	14/A6.0	13/A6.0	15/A6.0	-	
103	101 Waste Unloading	12'-0" x 12'-0"	C	STEEL	none	3	factory	sectional	by door mfg	factory	14/A6.0	13/A6.0	15/A6.0	-	
104	101 Waste Unloading	3'-0" x 7'-0"	A	HM	none	1	painted	1	HM	painted	6/A6.0	7/A6.0	5/A6.0	-	
105	100 Tunnel	14'-0" x 14'-0"	C	STEEL	none	3	factory	sectional	by door mfg	factory	14/A6.0	13/A6.0	15/A6.0	-	
106	100 Tunnel	3'-0" x 7'-0"	A	HM	none	1	painted	1	HM	painted	6/A6.0	7/A6.0	5/A6.0	-	
107	100 Tunnel	14'-0" x 14'-0"	C	STEEL	none	3	factory	sectional	by door mfg	factory	14/A6.0	13/A6.0	15/A6.0	-	
108	103 Recycling	3'-0" x 7'-0"	A	HM	none	1	painted	1	HM	painted	6/A6.0	7/A6.0	5/A6.0	-	
109	103 Recycling	12'-0" x 12'-0"	C	STEEL	none	3	factory	sectional	by door mfg	factory	14/A6.0	13/A6.0	15/A6.0	-	
110	103 Recycling	12'-0" x 12'-0"	C	STEEL	none	3	factory	sectional	by door mfg	factory	14/A6.0	13/A6.0	15/A6.0	-	
111	103 Recycling	12'-0" x 12'-0"	C	STEEL	none	3	factory	sectional	by door mfg	factory	14/A6.0	13/A6.0	15/A6.0	-	
112	105 Check-In/Office	3'-0" x 7'-0"	B	HM	IG-1	2	painted	1	HM	painted	3/A6.0	3/A6.0	5/A6.0	-	
113	105 Check-In/Office	3'-0" x 7'-0"	A	HM	none	4	painted	1	HM	painted	4/A6.0	4/A6.0	8/A6.0	-	
114	106 Breakroom	3'-0" x 7'-0"	A	HM	none	4	painted	1	HM	painted	4/A6.0	4/A6.0	8/A6.0	-	
115	108 Tool Storage	3'-0" x 7'-0"	A	HM	none	7	painted	1	HM	painted	9/A6.0	9/A6.0	8/A6.0	20 min.	
116	107 Storage	3'-0" x 7'-0"	A	HM	none	5	painted	1	HM	painted	10/A6.0	10/A6.0	8/A6.0	-	
117	109 Men's	3'-0" x 7'-0"	A	HM	none	6	painted	1	HM	painted	4/A6.0	4/A6.0	8/A6.0	-	
118	110 Women's	3'-0" x 7'-0"	A	HM	none	6	painted	1	HM	painted	4/A6.0	4/A6.0	8/A6.0	-	
119	111 Plumbing	3'-0" x 7'-0"	A	HM	none	5	painted	1	HM	painted	4/A6.0	4/A6.0	8/A6.0	-	
120	112 Electrical	3'-0" x 7'-0"	A	HM	none	5	painted	1	HM	painted	4/A6.0	4/A6.0	8/A6.0	-	
121	104 Hall	3'-0" x 7'-0"	D	HM	WG-1	7	painted	1	HM	painted	9/A6.0	9/A6.0	8/A6.0	20 min.	

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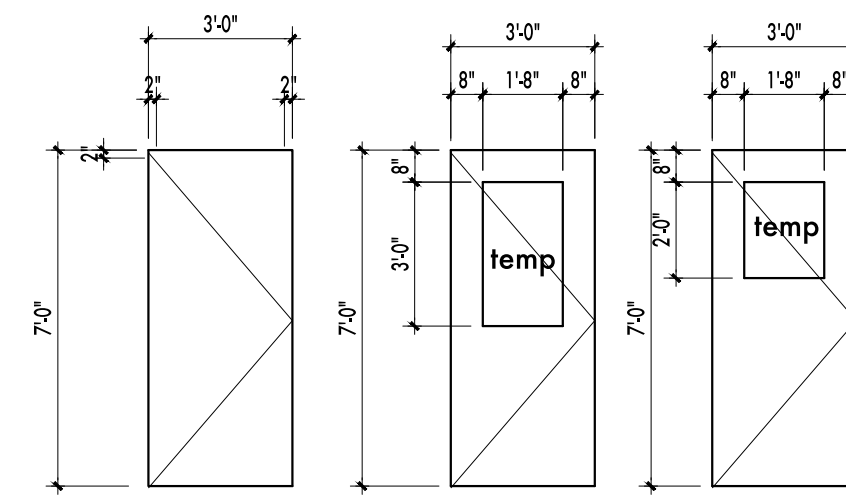
Glazing - clear and tempered

FRAME TYPES



TYPE 1 HM

DOOR TYPES

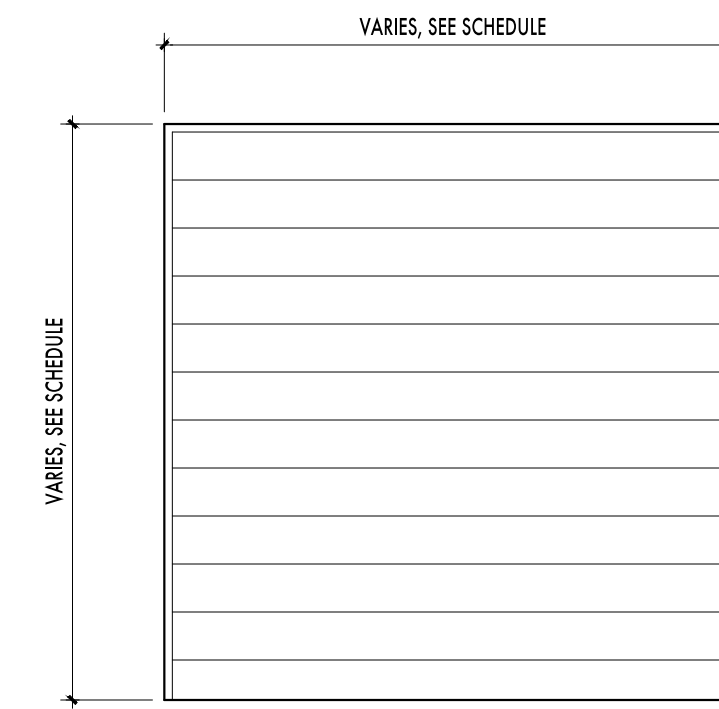


PAINT HM DOORS AND FRAMES TO MATCH BUILDING EXTERIOR METAL PANEL

TYPE A HM

TYPE B HM

TYPE D HM

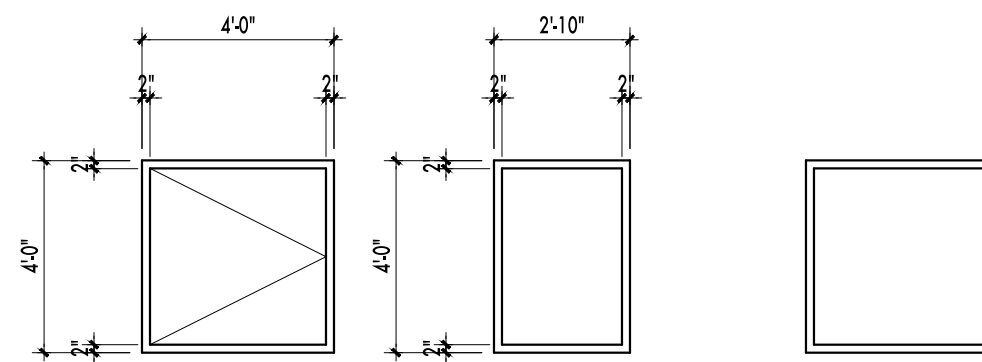


TYPE C ALUM

DESCRIPTION							DETAILS			WDW. TREATM.	RTG.	REMARKS	
MARK	LOCATION	SIZE (W x H NOMINAL)	TYPE	MATERIAL	GLAZING	FINISH	OPERATION	HEAD	JAMB				SILL
A	105 Check-In/Office	4'-0" x 4'-0"	WT-1	HM	IG-1	painted	casement	1/A6.0	1/A6.0	2/A6.0	none	-	
B	105 Check-In/Office	4'-0" x 4'-0"	WT-1	HM	IG-1	factory	casement	1/A6.0	1/A6.0	2/A6.0	none	-	
C	105 Check-In/Office	4'-0" x 4'-0"	WT-1	HM	IG-1	factory	casement	1/A6.0	1/A6.0	2/A6.0	none	-	
D	105 Check-In/Office	2'-10" x 4'-0"	WT-2	HM	IG-1	factory	fixed	1/A6.0	1/A6.0	2/A6.0	none	-	
E	106 Breakroom	4'-0" x 4'-0"	WT-1	HM	IG-1	factory	casement	1/A6.0	1/A6.0	2/A6.0	none	-	
F	106 Breakroom	4'-0" x 4'-0"	WT-1	HM	IG-1	factory	casement	1/A6.0	1/A6.0	2/A6.0	none	-	
G	106 Breakroom	4'-0" x 4'-0"	WT-1	HM	IG-1	factory	casement	1/A6.0	1/A6.0	2/A6.0	none	-	
H	106 Breakroom	4'-0" x 4'-0"	WT-3	HM	FG-1	factory	fixed	12/A6.0	12/A6.0	12/A6.0	none	-	interior window

WINDOW TYPES

all window glazing tempered as required



WT-1 HM
2" mullions

WT-2 HM
2" mullions

WT-3 HM
2" mullions

Glazing - clear
Baked enamel finish - as selected by Owner/Architect

DOOR AND WINDOW
SCHEDULES, TYPES

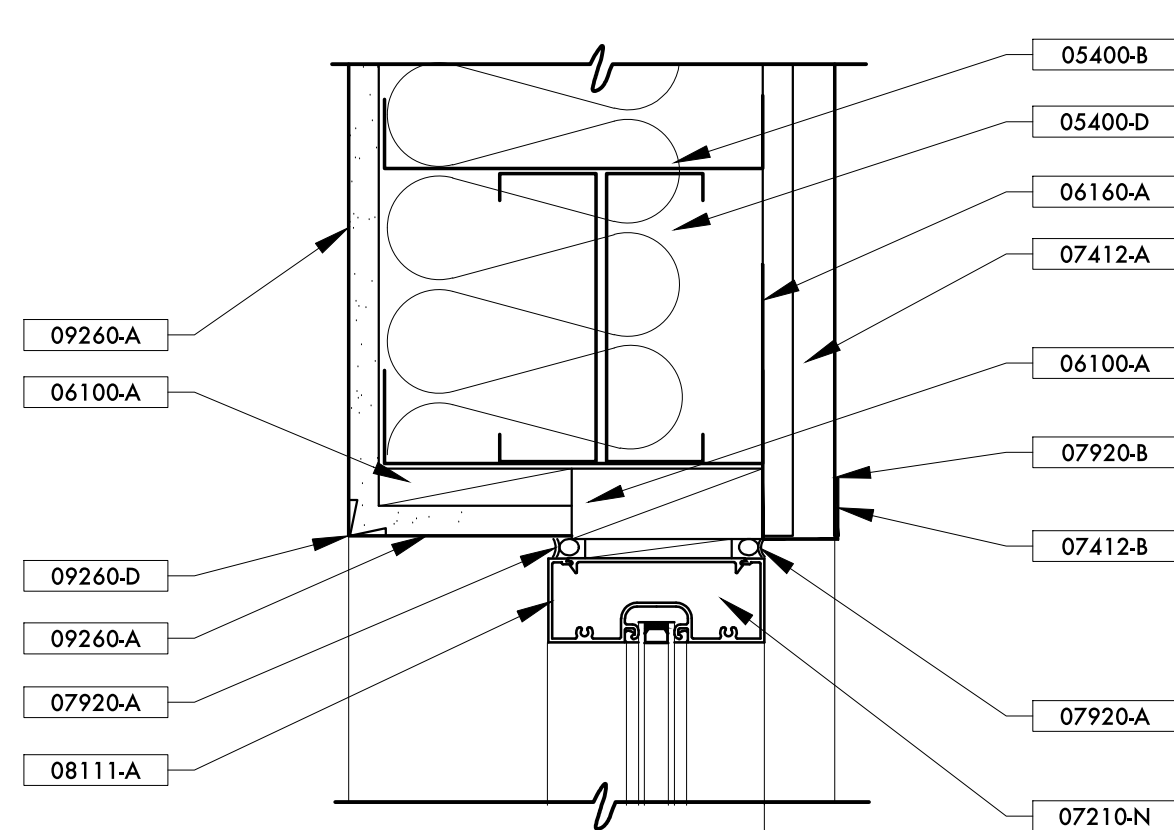
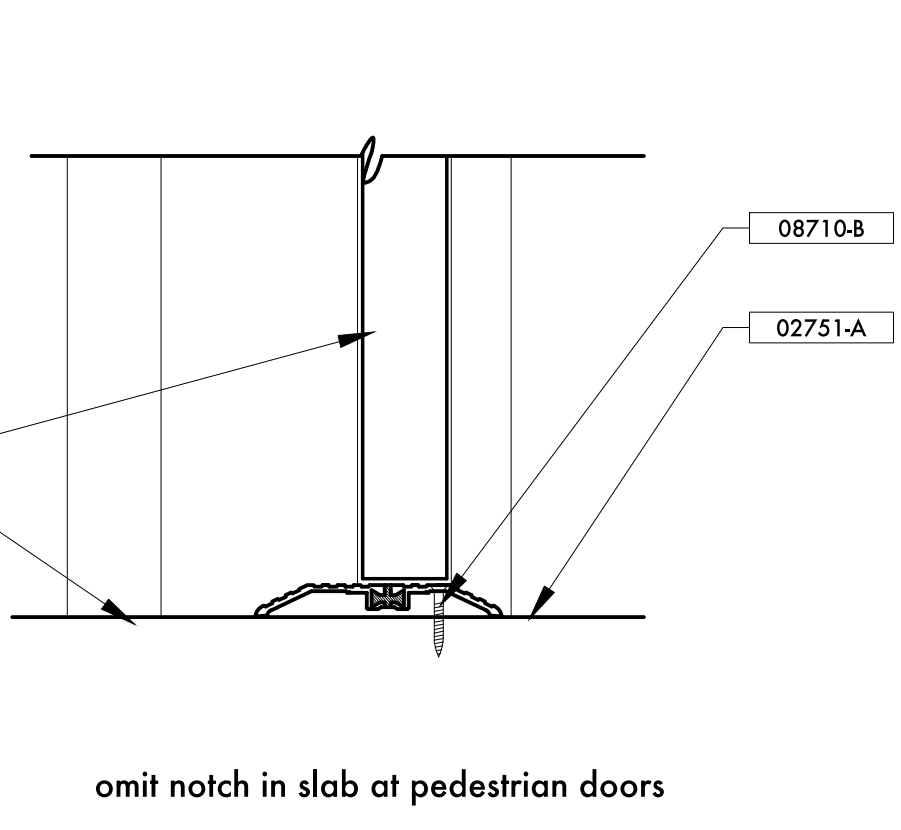
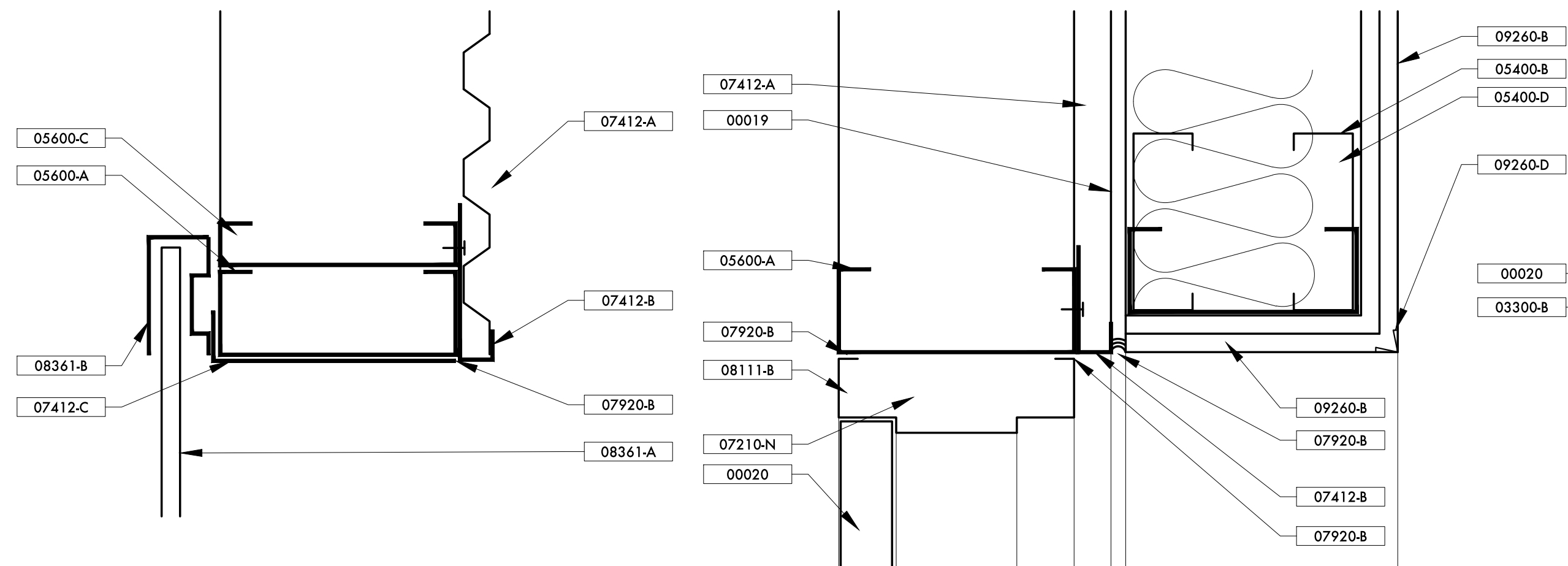


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- KEYED NOTES, DOOR/WINDOW DETAILS**
- 00019 1" SPACE
 - 00020 DOOR WHERE OCCURS, SEE SCHEDULE FOR MATERIAL/TYPE
 - 00028 NO CHANGE IN FLOOR MATERIAL
 - 00033 SLOPE AWAY FROM WINDOW
 - 00100 SMOKE SEAL WHERE OCCURS, SEE HARDWARE SCHED.
 - 02751-A CONCRETE SIDEWALK OR ASPHALT WHERE OCCURS, SEE CIVIL, SLOPE AWAY FROM BLDG.
 - 03300-B CONCRETE SLAB, SEE STRUCTURAL.
 - 05400-B 8" METAL STUD WALL, SEE STRUCTURAL.
 - 05400-C 6" METAL STUD WALL, SEE STRUCTURAL.
 - 05400-D METAL STUD LINTEL, SEE STRUCTURAL.
 - 05400-F 3/8" METAL STUD WALL
 - 05600-A FINISH OPENING TRIM
 - 05600-C BLOCKING/STRUCTURE AS REQUIRED FOR DOOR ATTACHMENT
 - 06100-A WOOD BLOCKING AS REQUIRED
 - 06160-A 1/2" OSB
 - 07210-E SOUND ATTENUATION BLANKETS - FILL THICKNESS OF WALL CAVITY
 - 07210-N EXPANDED INSULATING FOAM
 - 07412-A PBM PANEL
 - 07412-B HEAD OR JAMB TRIM TO MATCH PBM PANEL BY PANEL MFR.
 - 07412-C TRIM TO MATCH PBM PANEL BY PANEL MFR. AS REQUIRED TO FINISH OPENING
 - 07920-A SEALANT & BACKER ROD.
 - 07920-B SEALANT AS REQ'D
 - 08111-A PAINTED HOLLOW METAL WINDOW FRAME
 - 08111-B PAINTED HOLLOW METAL DOOR FRAME
 - 08361-A COILING DOOR
 - 08361-B TRACK/GUIDE
 - 08361-C BARREL ASSEMBLY
 - 08361-D BRACKET
 - 08361-E ASTRAGAL
 - 08361-F SILL PLATE
 - 08710-B EXTERIOR THRESHOLD
 - 09260-A 1/2" GYPSUM BOARD, TYPE "X" WHERE RATED.
 - 09260-B 1/2" GYPSUM BOARD, TYPE "X" - 2 LAYERS
 - 09260-D CORNER BEAD, TYP. ALL GYP WALLS
 - 09310-A PORCELAIN STONE TILE
 - 09310-C PORCELAIN STONE TRANSITION STRIP TO MATCH FLOORING

JACONA COLLECTION CENTER
 SANTA FE COUNTY
 Santa Fe, New Mexico

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DOOR AND WINDOW DETAILS

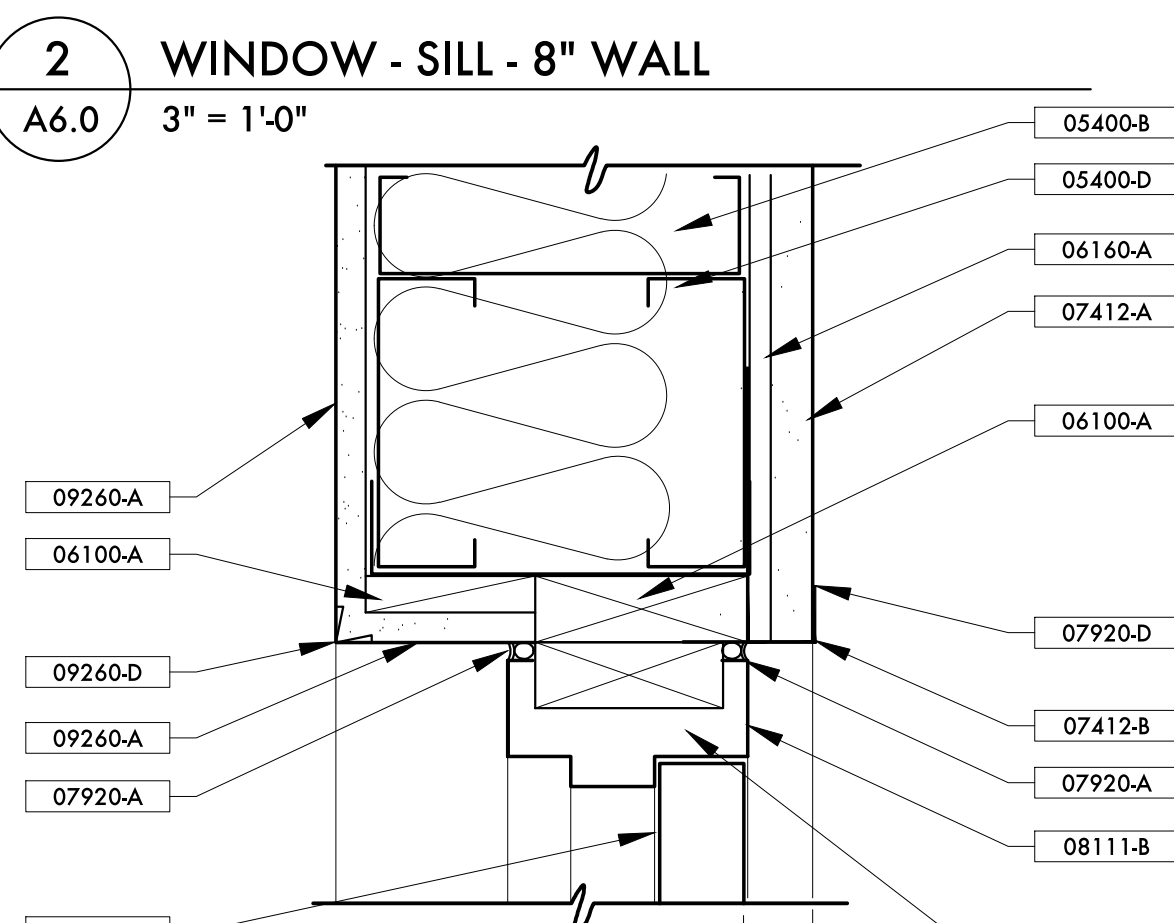
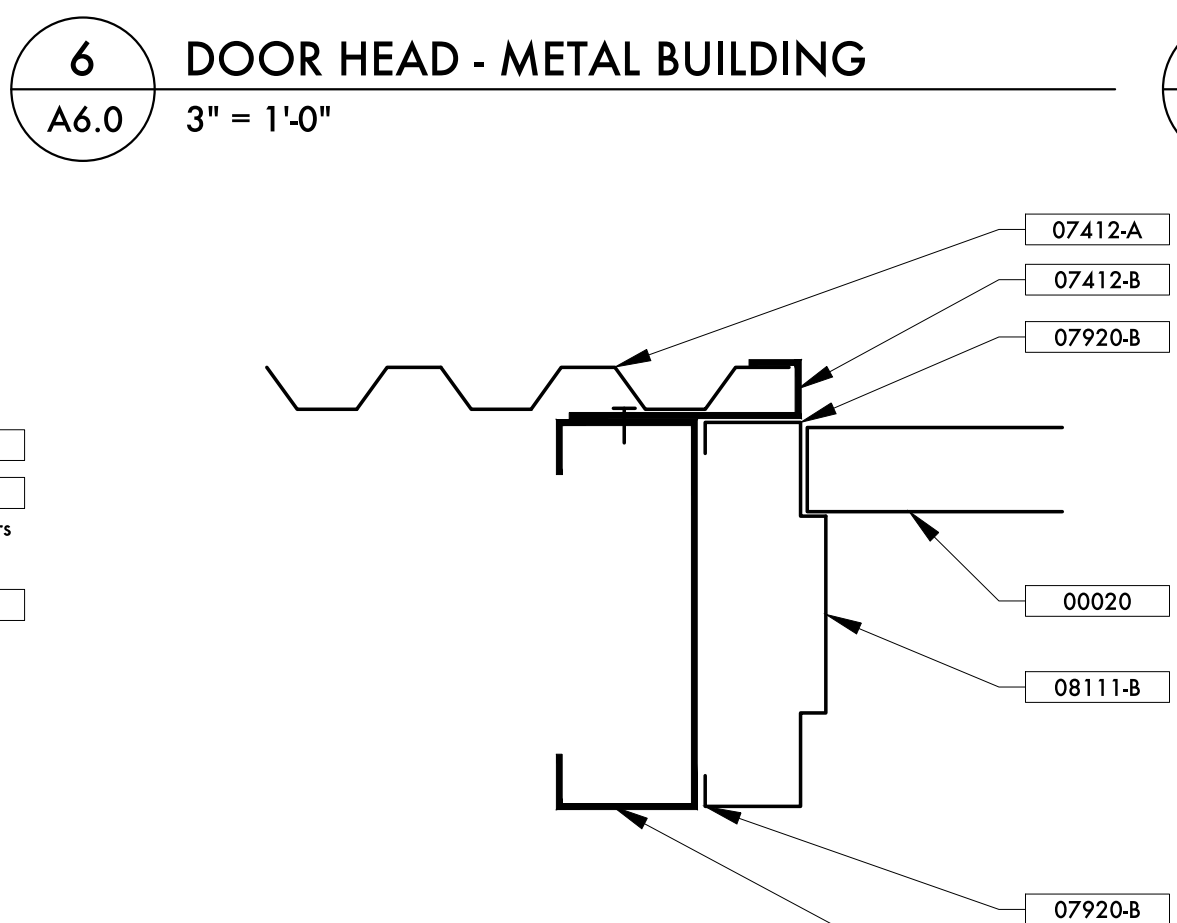
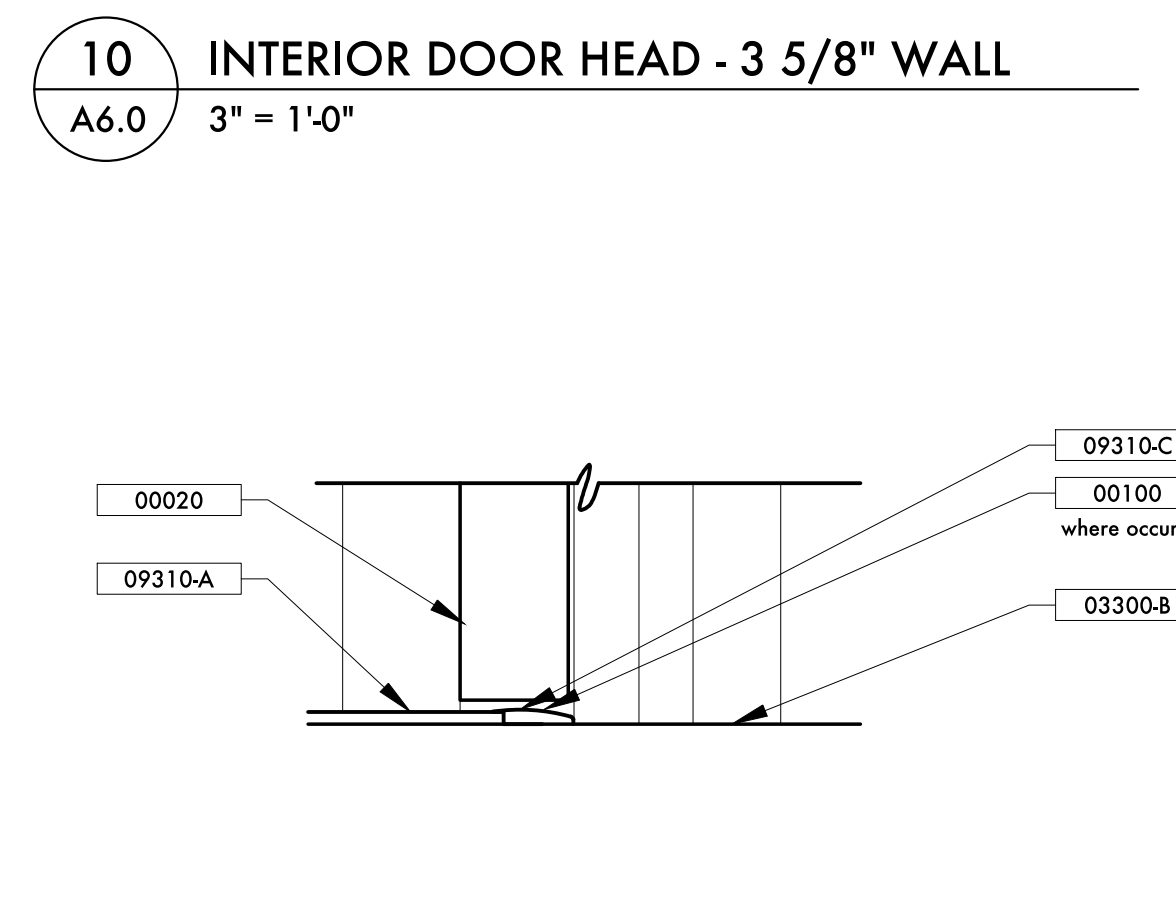
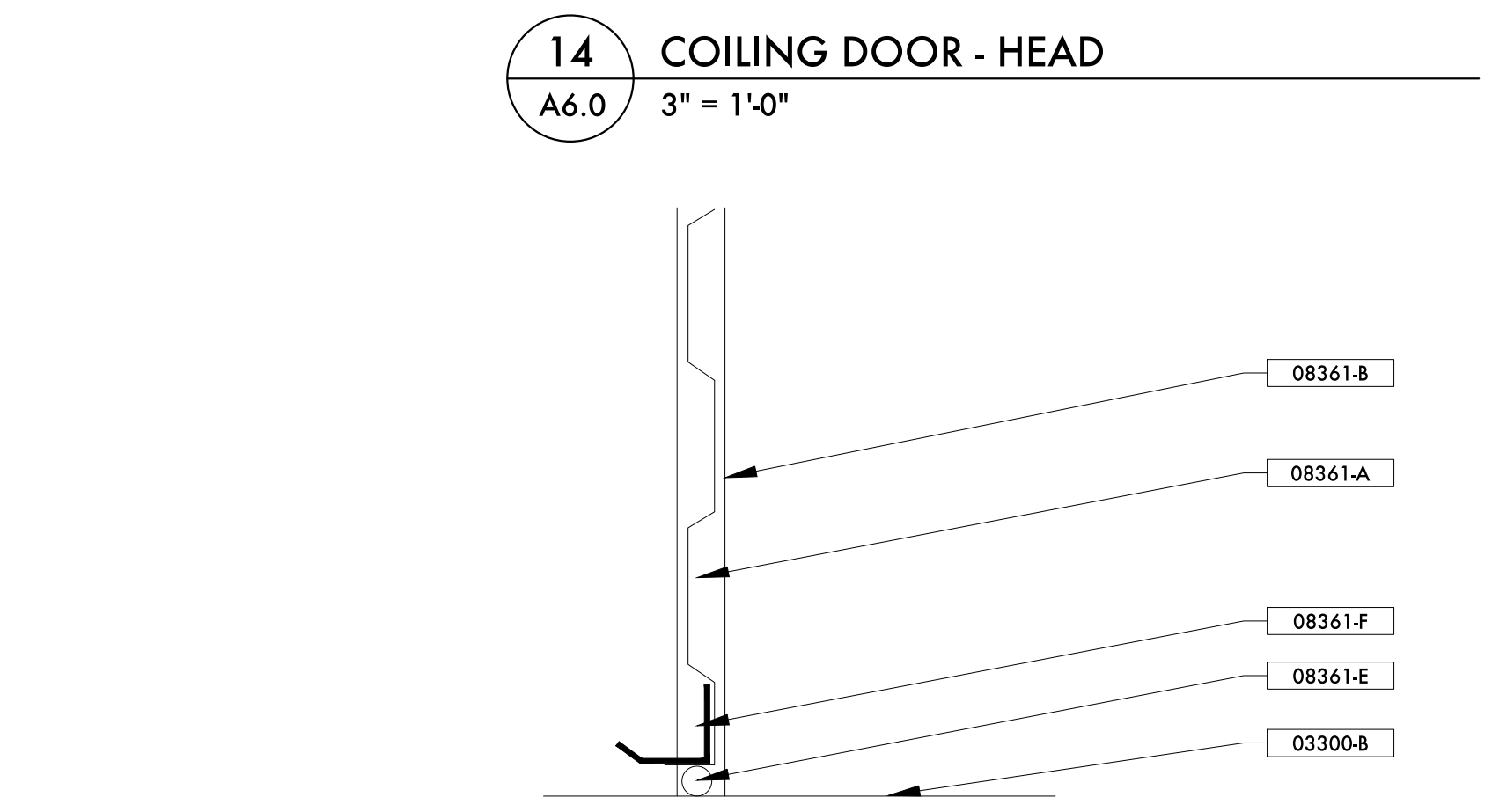
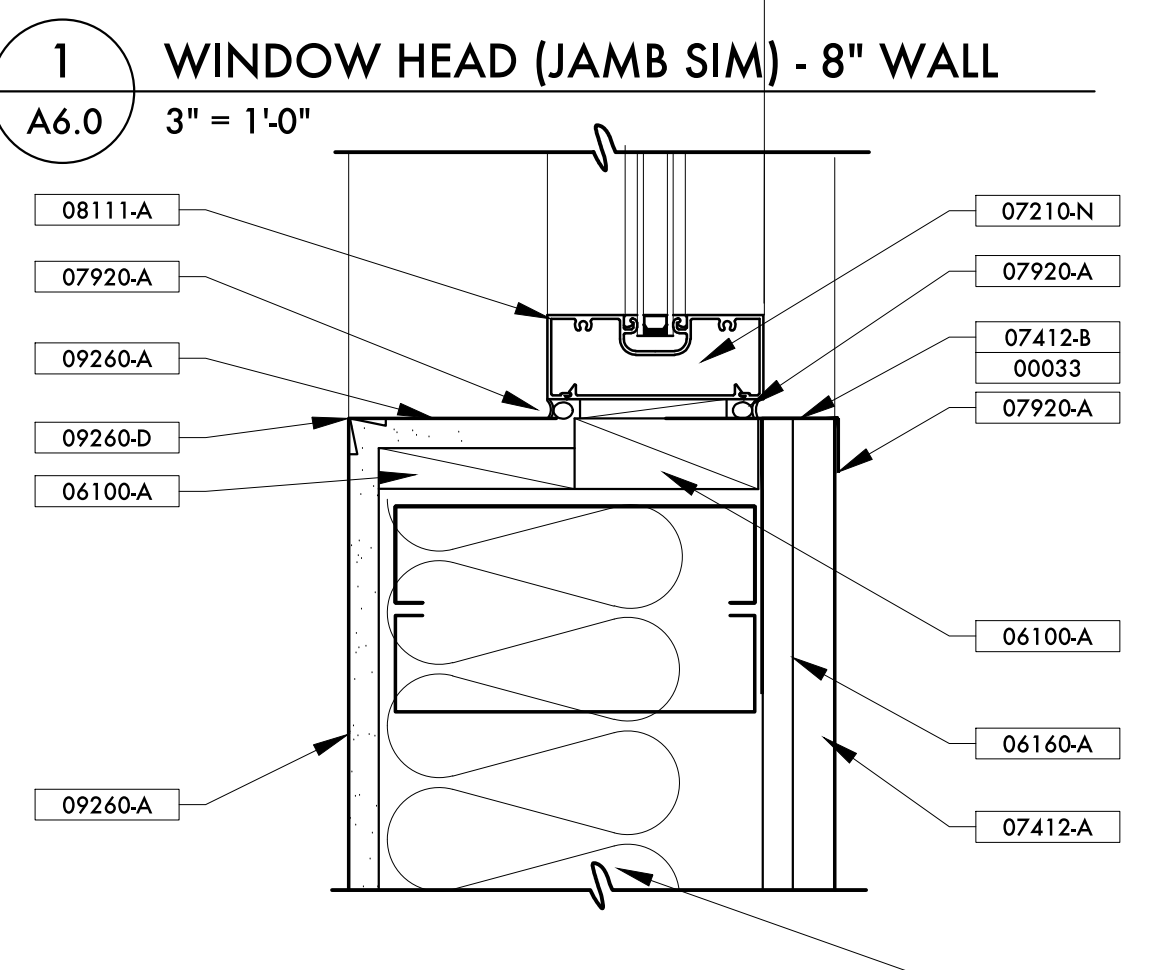
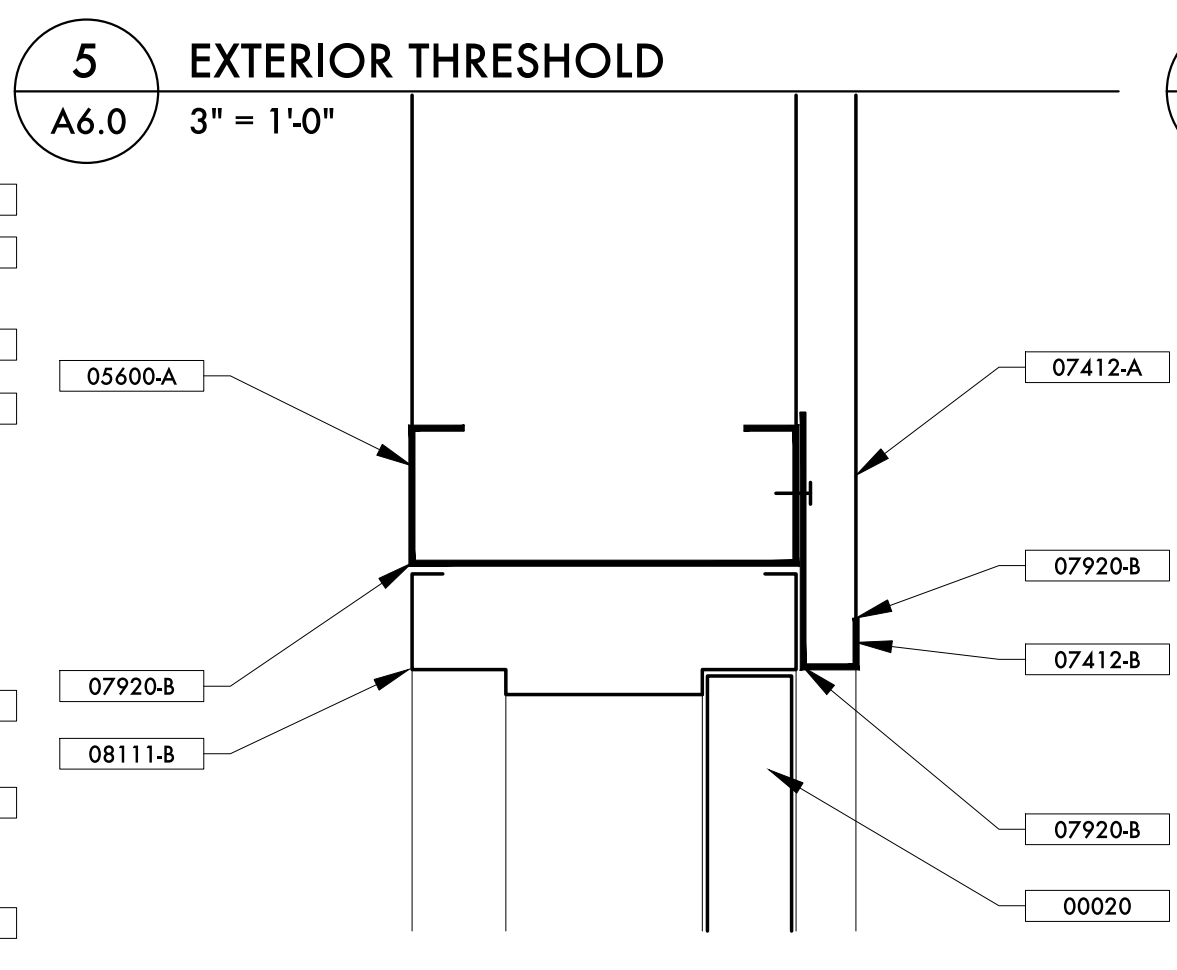
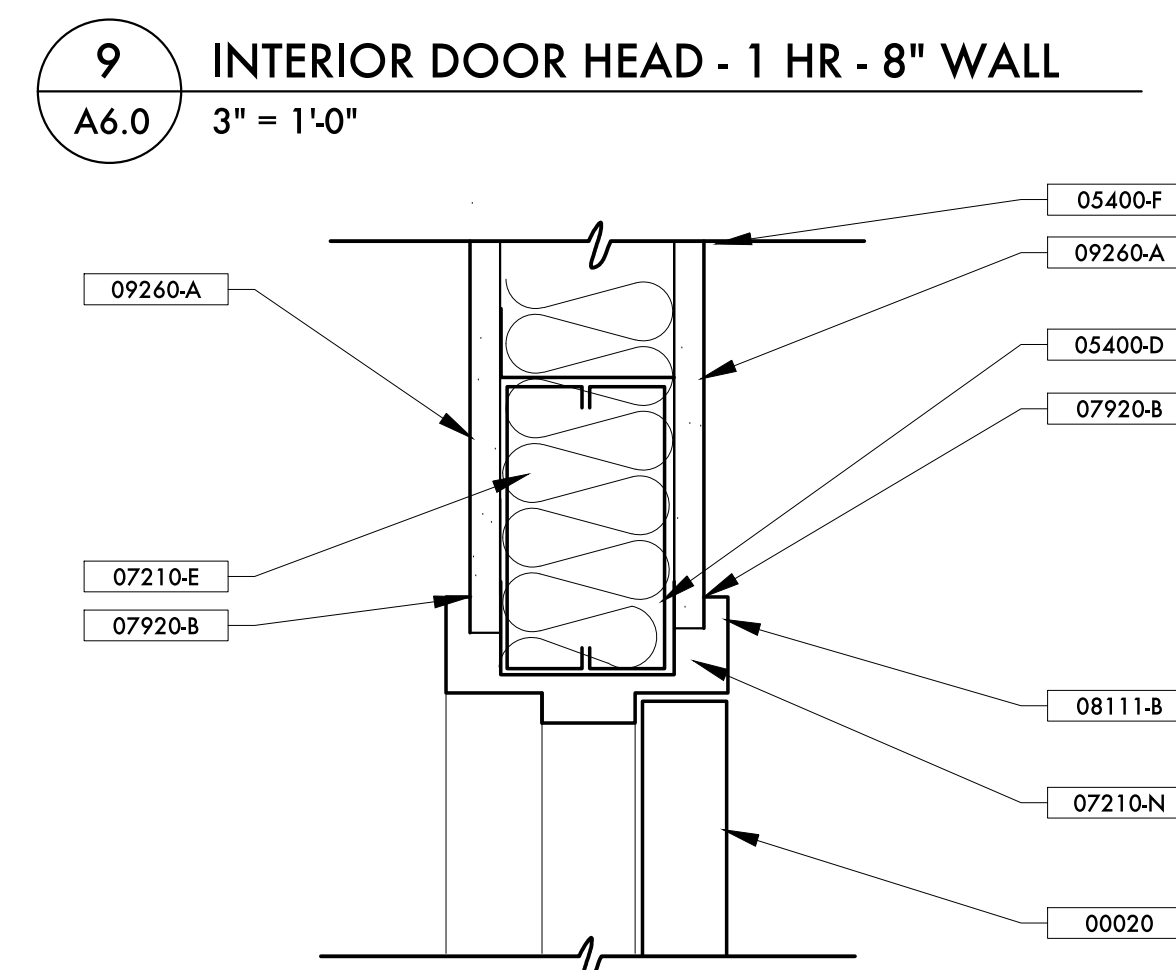
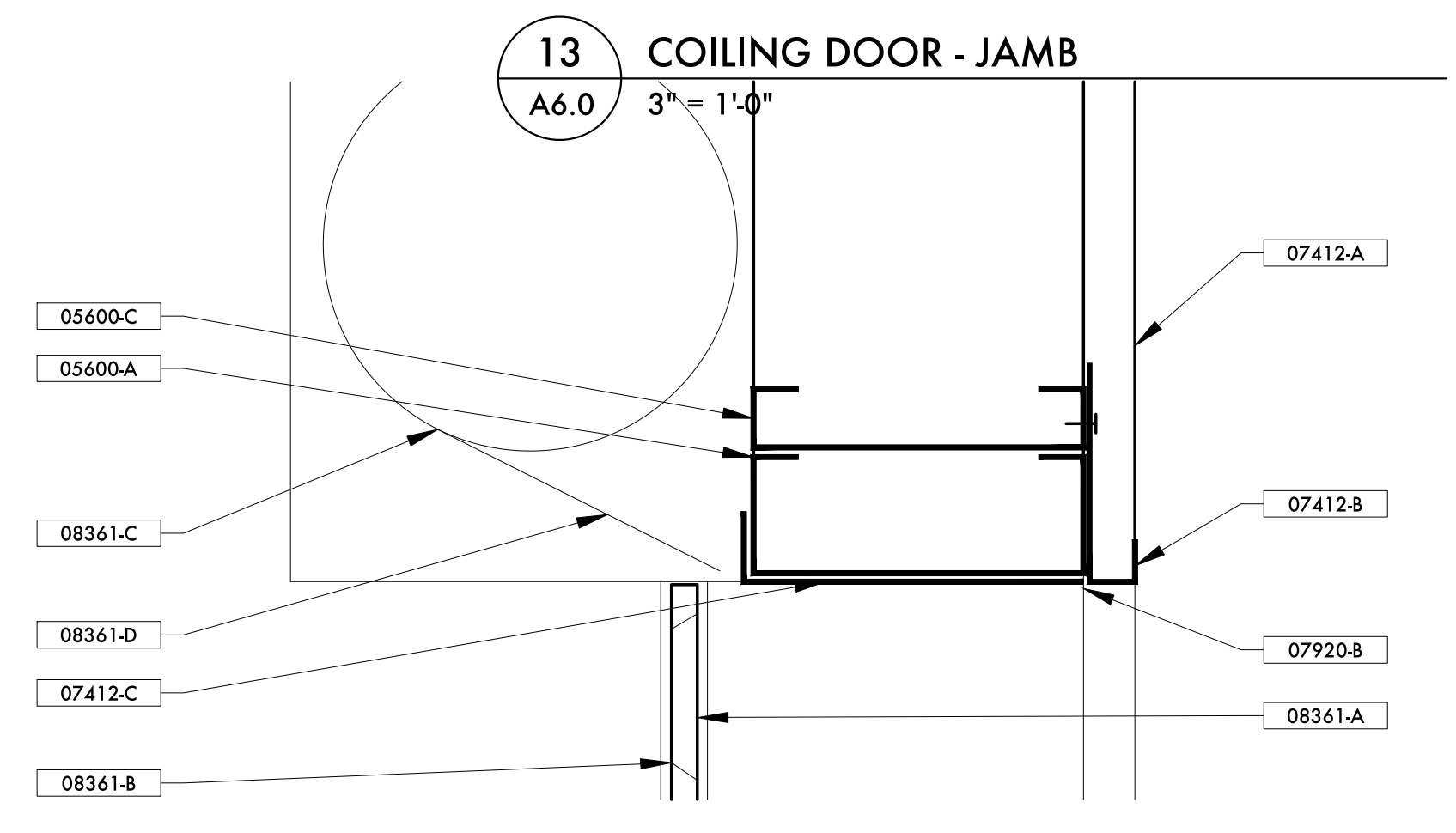


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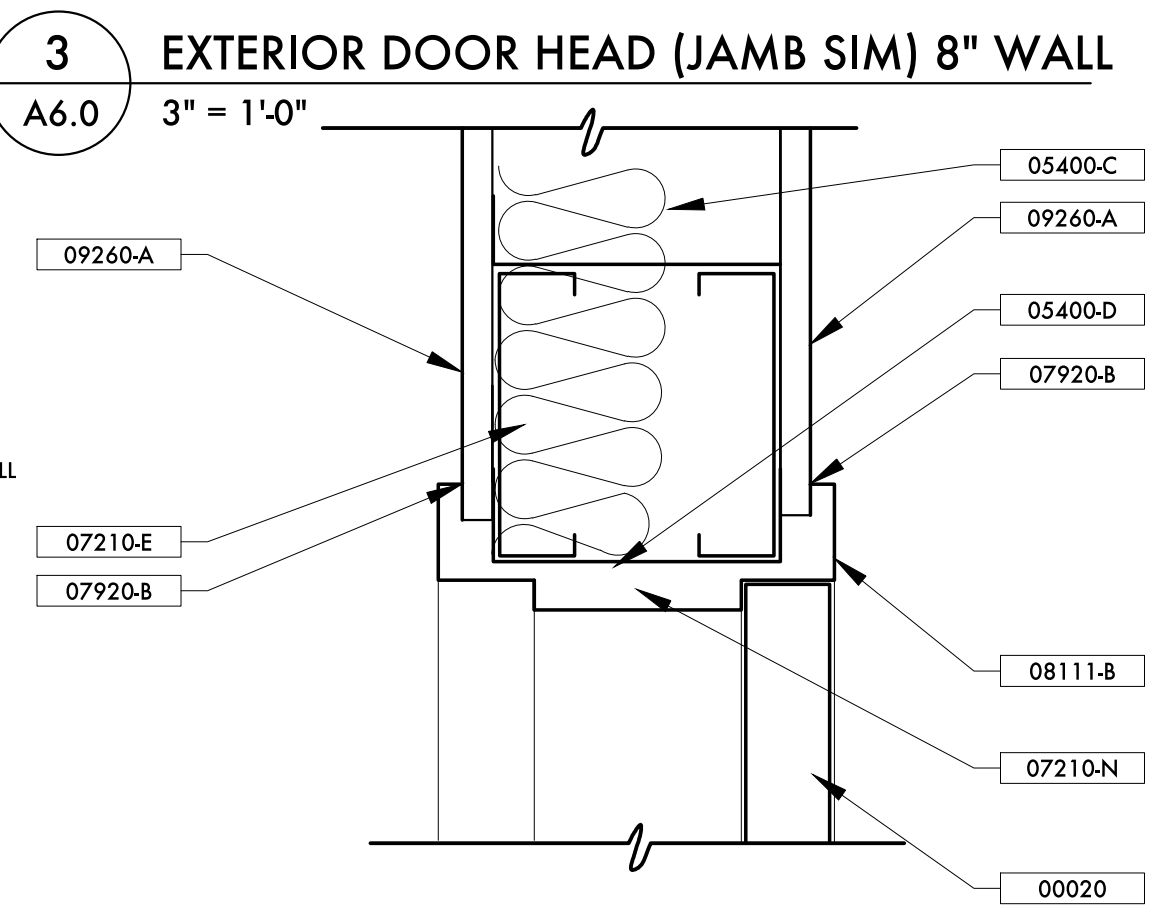
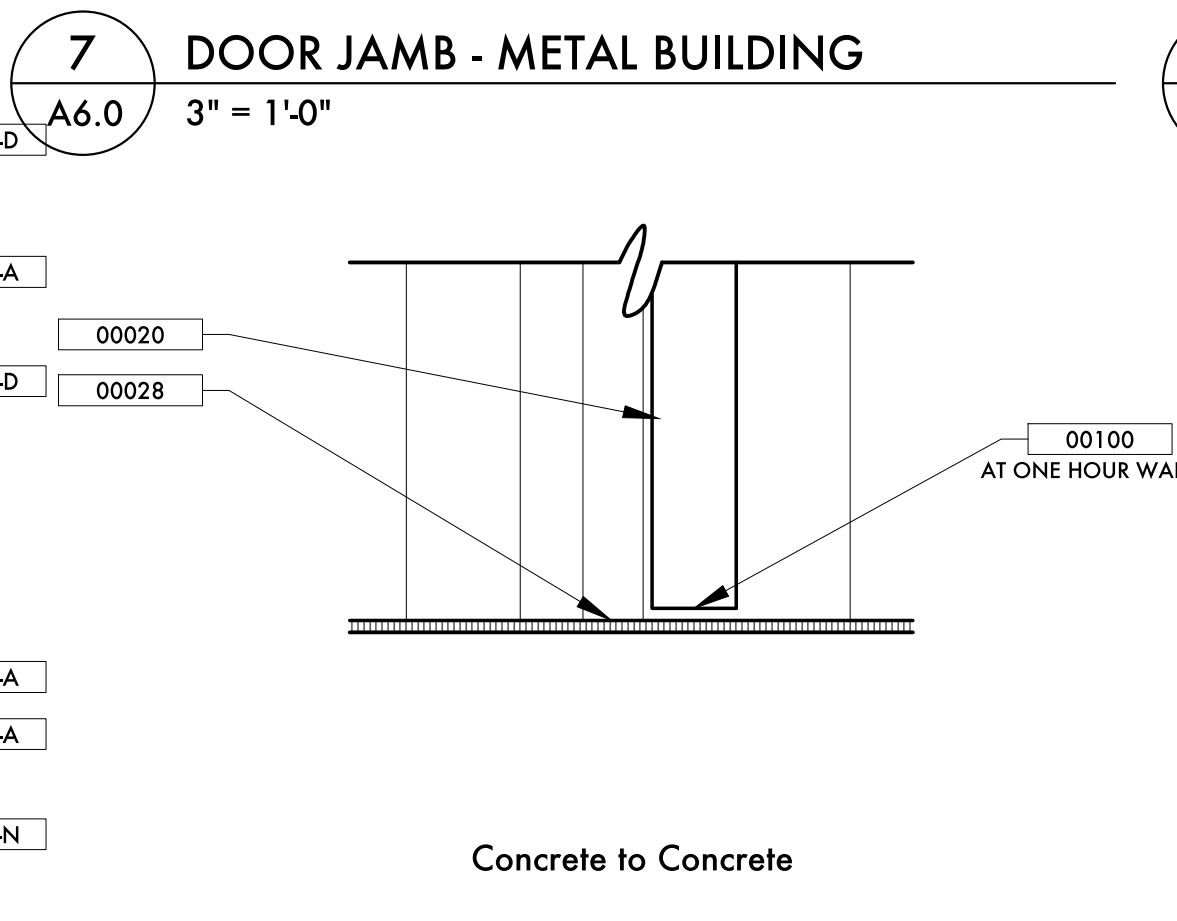
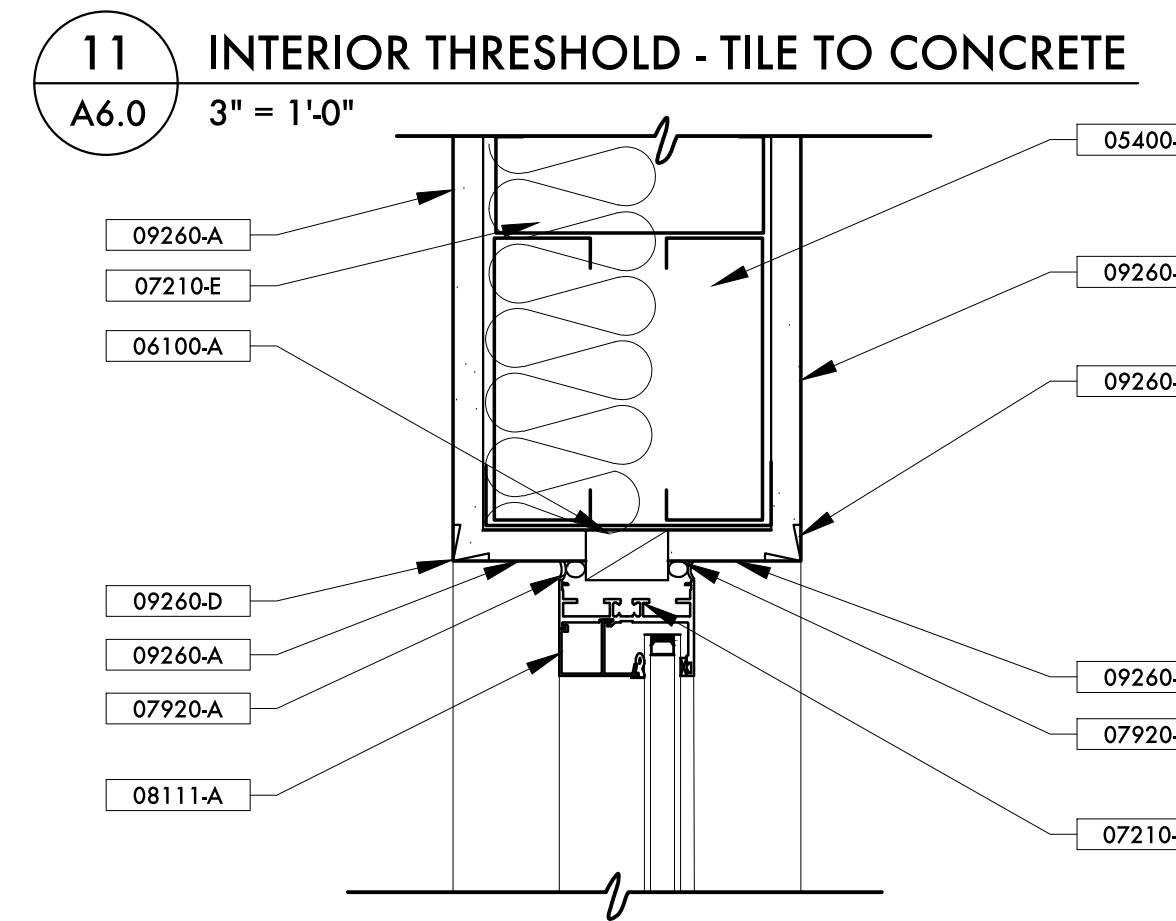
9.10.15

A6.0

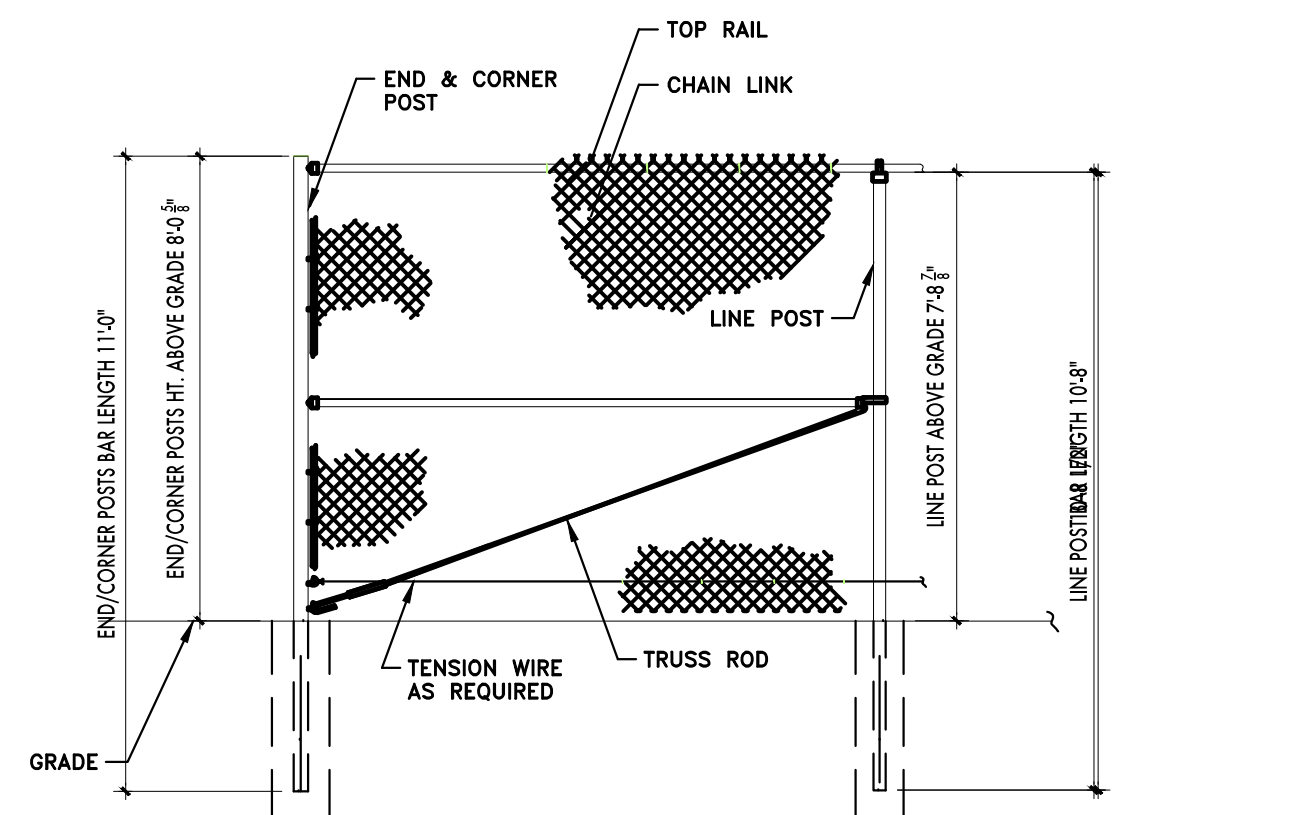
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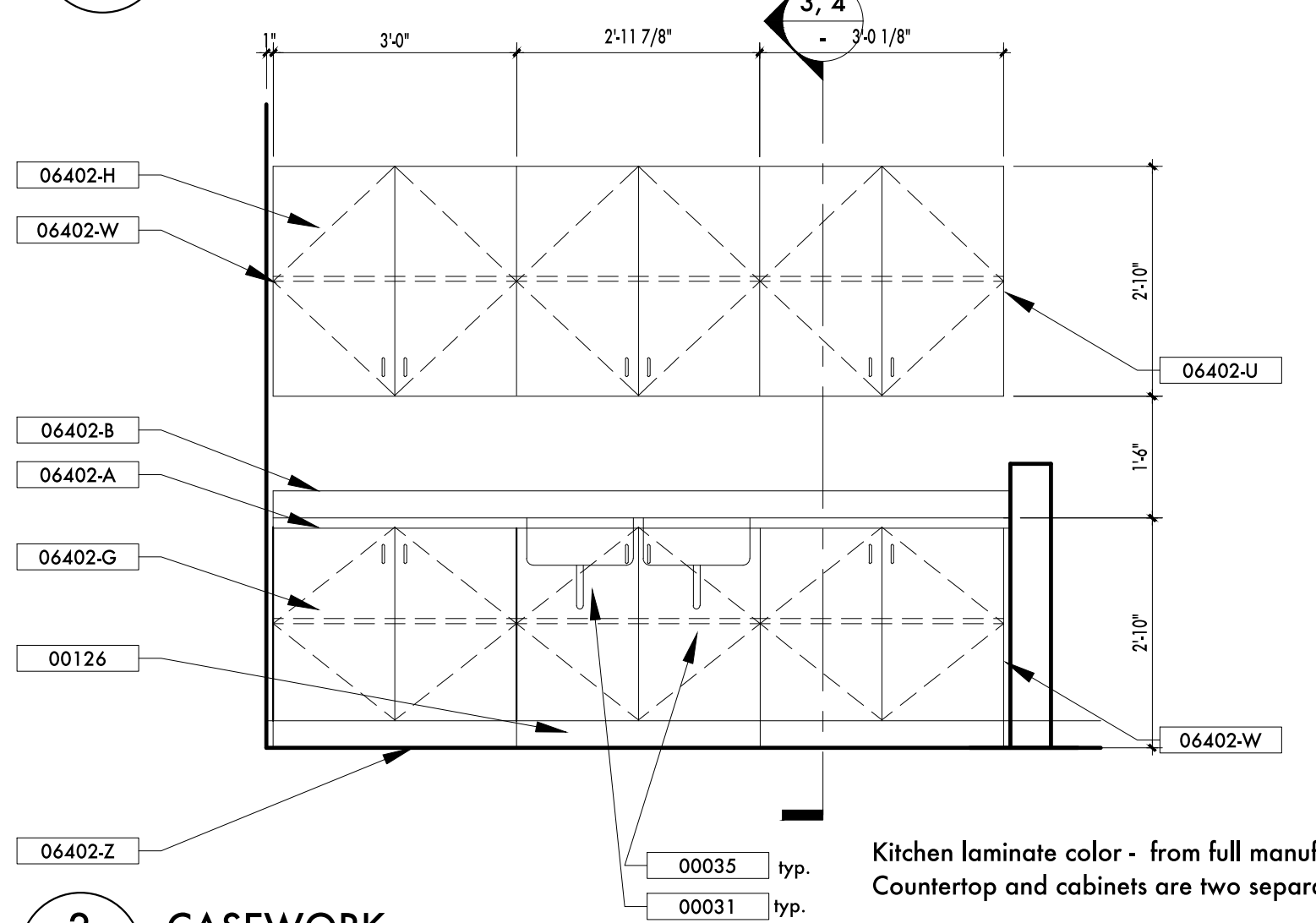
- GENERAL NOTES:**
1. Provide exterior sealant at all exterior door and window frame locations and interior caulk at all interior door and window frame locations; provide backer rod as required.
 2. For wall thicknesses see Plan, A1.1
 3. For glazing types, see spec. section 08800; provide wire/roled glazing and tempered glazing as required.
 4. See Structural for steel lintels over door and window openings. Provide headers at all openings.
 5. Metal stud sills and jamba as required; drawings are representational only.
 6. Insulation in all walls (sound or exterior) - window types on A1 and wall sections.
 7. Color of doors/frames as selected by Architect/Owner.
 8. Provide screens at all operable windows.
 9. Size on schedules indicates window size. Provide framing so that inset is per details.



Concrete to Concrete



1 CHAIN LINK FENCE
A7.0 not to scale



2 CASEWORK
A6.0 1/2" = 1'-0"

ROOM FINISH SCHEDULE

SPACE NO.	NAME	FLOOR	BASE	WALLS	CEILING	fire rating	REMARKS
100	Tunnel	SC1	none	M1	C3		
101	Waste Unloading	SC1	none	M1	C3		
102	Tip Floor	SC1	none	M1	C3		
103	Recycling	SC1	where occurs on gyp. walls	M1	C3		
104	Hall	SC1	B1	P1	C1		
105	Check-in/Office	SC1	B1	P1	C1		
106	Breakroom	SC1	B1	P1	C1		
107	Storage	SC1	B1	P1	C4		
108	Tool Storage	SC1	B1	P1	C4		
109	Men's Restroom	SC1	T1	T3/P2 - tile to clg.	C2		Owner provided tile, installation by Contractor
110	Women's Restroom	SC1	T1	T3/P2 - tile to clg.	C2		Owner provided tile, installation by Contractor
111	Plumbing/Fire Protection	SC1	B1	P1	C4 - caulk w/fire caulk		
112	Electrical	SC1	B1	P1	C4 - caulk w/fire caulk		

FLOOR:

SC1 Std. grey conc. w/sealer Concrete - Spec. Section 03300 and 03311
Sealer, see spec section 09912

BASE:

B1 Rubber base, spec section 09653: Johnsonite rubber 4" covered base, color: from full manufacturer's range
T1 Ceramic Tile base - continue Owner-provided tile to floor

WALLS:

Paint - Spec. Section 09912 (color is white, DEW 383 Cool December, unless designated otherwise)
P1 Eggshell o/ gyp. bd.
P2 Semi-Gloss paint over abuse board
T3 Owner-provided ceramic tile (installed by Contractor o/abuse board)
M1 Metal building

CEILING:

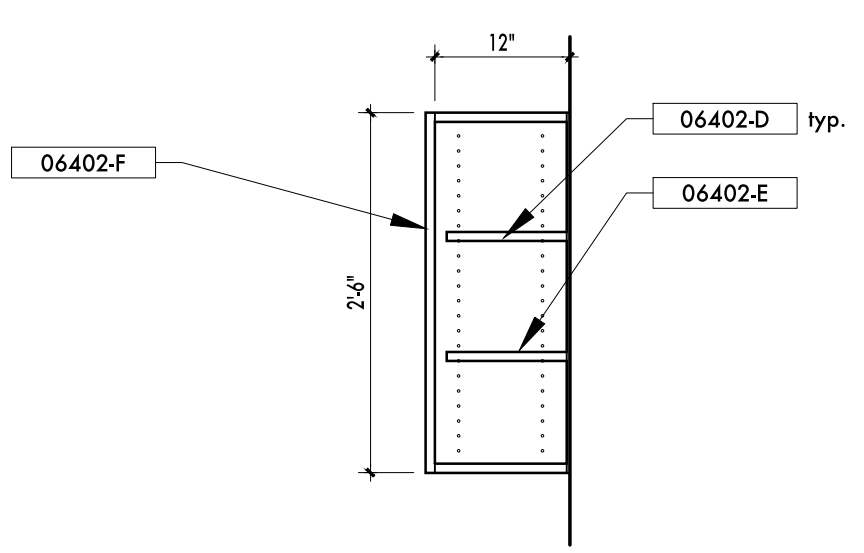
C1 Susp acoustical tile - 2X2 - WHITE - Fine Fissured 1734 (spec sec 09511)
C2 Gyp. Board painted
C3 Exposed structure, ducts and deck, by metal building manufacturer
C4 Exposed structure, ducts and deck, painted

KEYED NOTES, SHEET A7.0

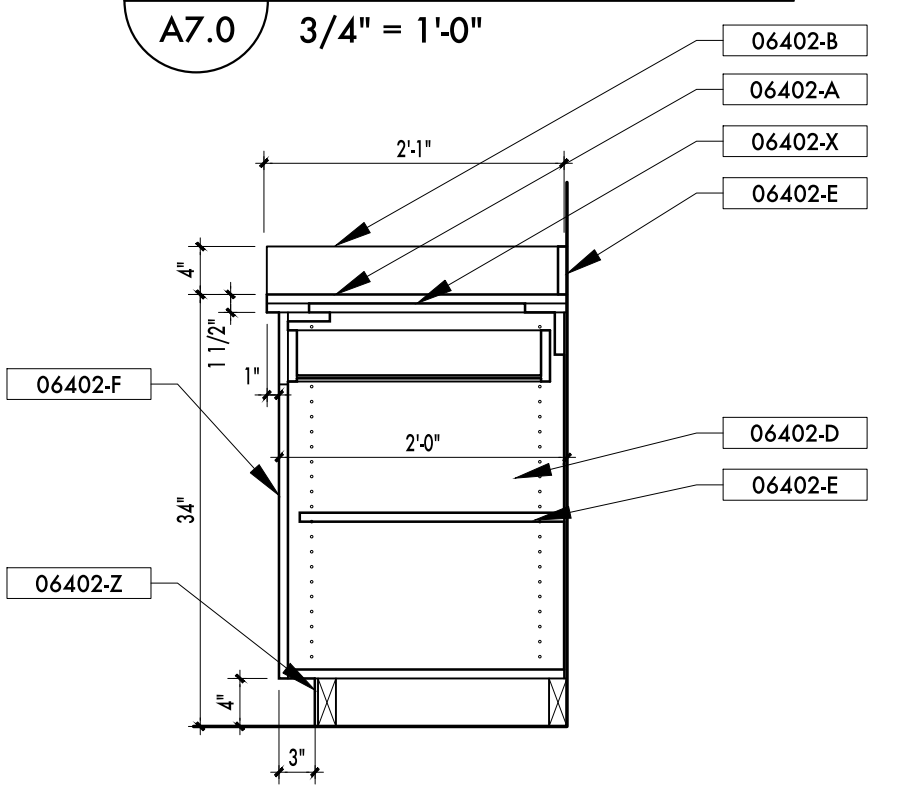
- 00010 SLOPE TO DRAIN 1/4" / FT. TYP.
- 00031 SINK & FAUCET, SEE PLUMBING
- 00035 PLUMBING TRAP COVER, SEE PLUMBING
- 00040 CROWNED TOP
- 00123 MOUNT SIGNS ON HEAVY-DUTY UNISTRUT DOOR FOR ADA
- 00126 CONSTRUCT SO THAT KICK IS PART OF CABINET
- 02751-J CONCRETE FOOTING
- 03300-B CONCRETE SLAB, SEE STRUCTURAL
- 03300-C CONCRETE STAIRS, SEE STRUCTURAL
- 03300-D EXPANSION JT., SEE STRUCTURAL
- 05120-Y #4 REBAR AT EA. STEP
- 05120-Z #4 REBAR @ 12" OC
- 05400-C 6" METAL STUD WALL, SEE STRUCTURAL
- 05501-A GUARDRAIL 42" H, 2" PIPE STEEL
- 05501-H 8" DIAM. STEEL PIPE, CONC. FILLED
- 05501-J EXPANDED METAL STEPS
- 05501-K EXPANDED METAL GRATING
- 05501-L 4X4X1/2 ANGLE IRON
- 05501-M 4X4X1/2 ANGLE IRON LEGS
- 05501-N 1 1/2" DIAM. PIPE ALL AROUND
- 05501-O 1/2" METAL PLATE, WELD CONTINUOUS SIDE TO BOTTOM AND ALL SIDES
- 06402-A PLASTIC LAMINATE COUNTERTOP
- 06402-B 4" H PLASTIC LAMINATE BACKSPASH
- 06402-D CABINET CARCASS (MELAMINE)
- 06402-E ADJUSTABLE SHELF (MELAMINE)
- 06402-F CABINET DOOR (LAMINATE W/MELAMINE INTERIOR, SEE SCHED.)
- 06402-G BASE CABINET (LAMINATE W/MELAMINE INTERIOR, SEE SCHED.)
- 06402-H UPPER CABINET (LAMINATE W/MELAMINE INTERIOR, SEE SCHED.)
- 06402-Q 1/2" THICK PLYWOOD SHELF, PAINTED WHITE
- 06402-T METAL SHELF STANDARD, KV TYPE, INSET IN WALL
- 06402-U FINISHED END PANEL (PLASTIC LAMINATE)
- 06402-W FILLER PANEL (PLASTIC LAMINATE)
- 06402-X MARINE GRADE PLYWOOD
- 06402-Y METAL SHELF BRACKET, TYP.
- 06402-Z PLASTIC LAMINATE TOE KICK
- 09260-A 3/4" GYPSUM BOARD, TYPE "X" WHERE RATED, ABUSE BOARD WHERE NOTED
- 09310-D CAST-IN, NON-SLIP STAIR NOSING
- 09653-A WALL BASE
- 10431-B DISABLED PARKING SIGN, R7-8A WITH VAN-ACCESSIBLE SIGN

GENERAL NOTES:

1. Paint all exposed metal
2. Blocking as required for all wall mounted items/cabinets
3. Filler panels as required
4. Abbreviation P.B.O./B.C. is Provided by Owner/Installed by Contractor
5. Provide side splashes with backsplashes unless noted otherwise.
6. Verify all dimensions in field prior to fabricating casework.
7. Cabinets do not have locks unless noted on drawings.

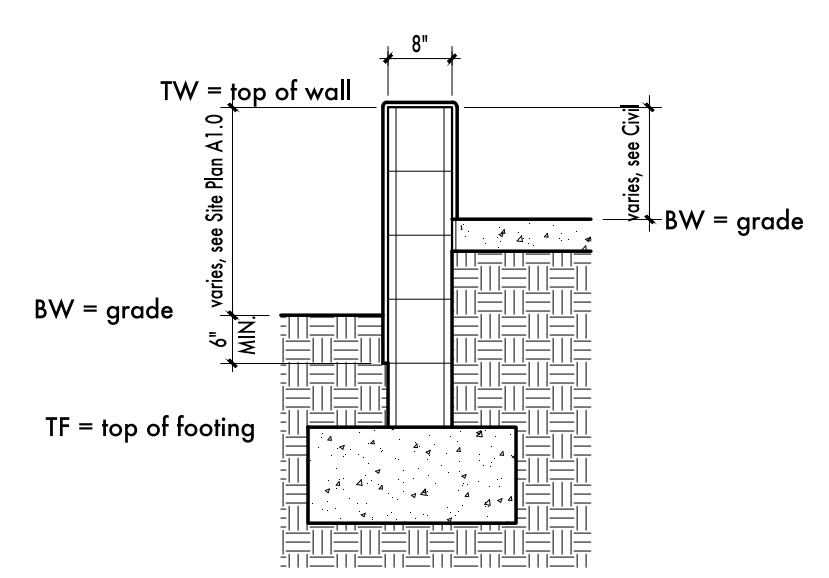


3 KITCHEN CABINET
A7.0 3/4" = 1'-0"

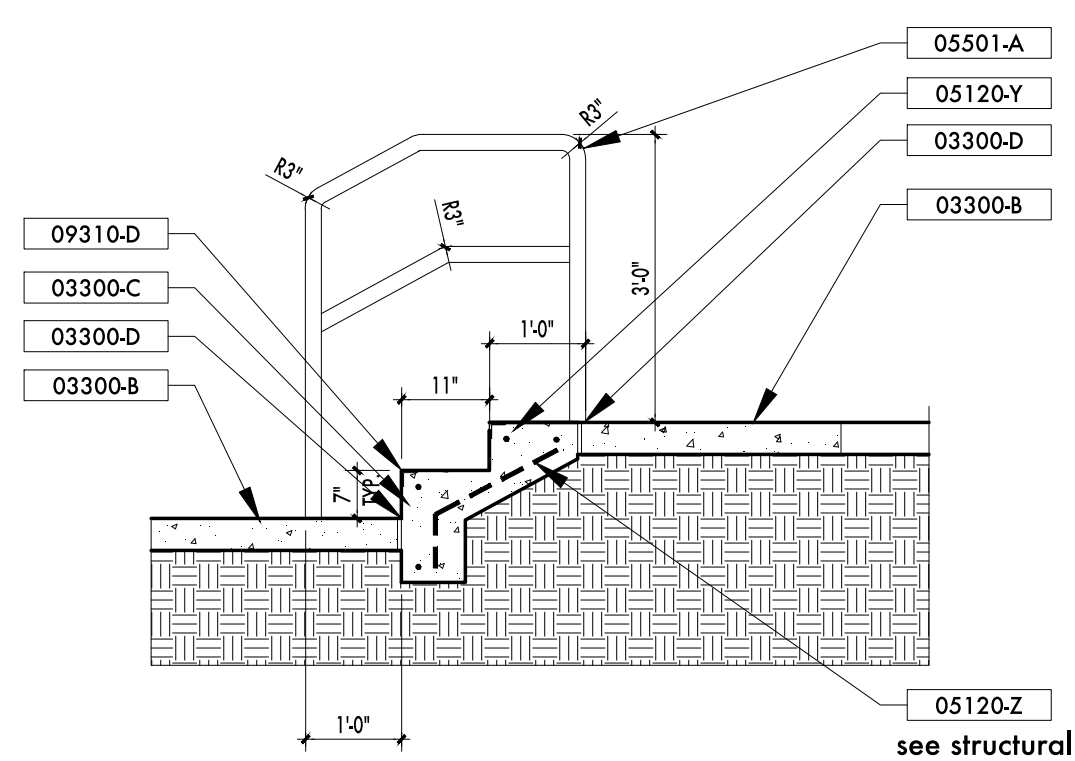


4 KITCHEN CABINET
A7.0 3/4" = 1'-0"

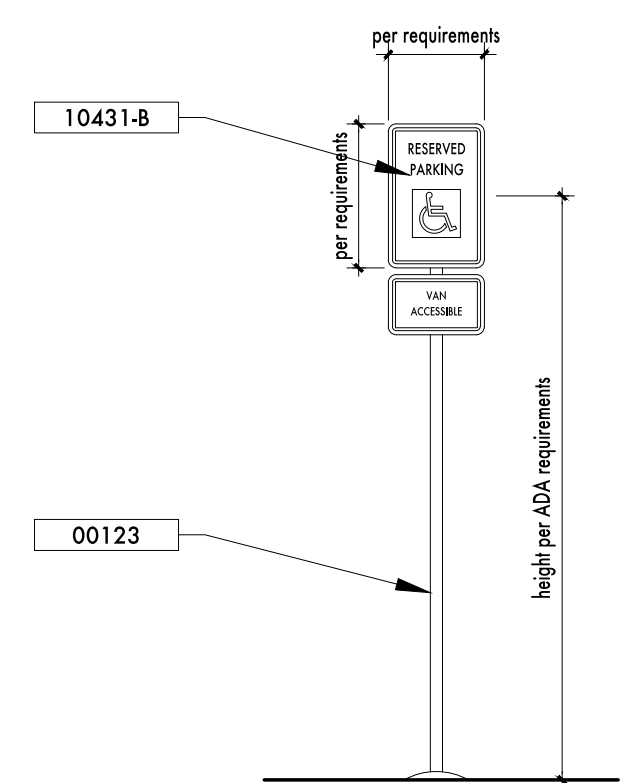
4a SHELVES
A7.0 3/4" = 1'-0"



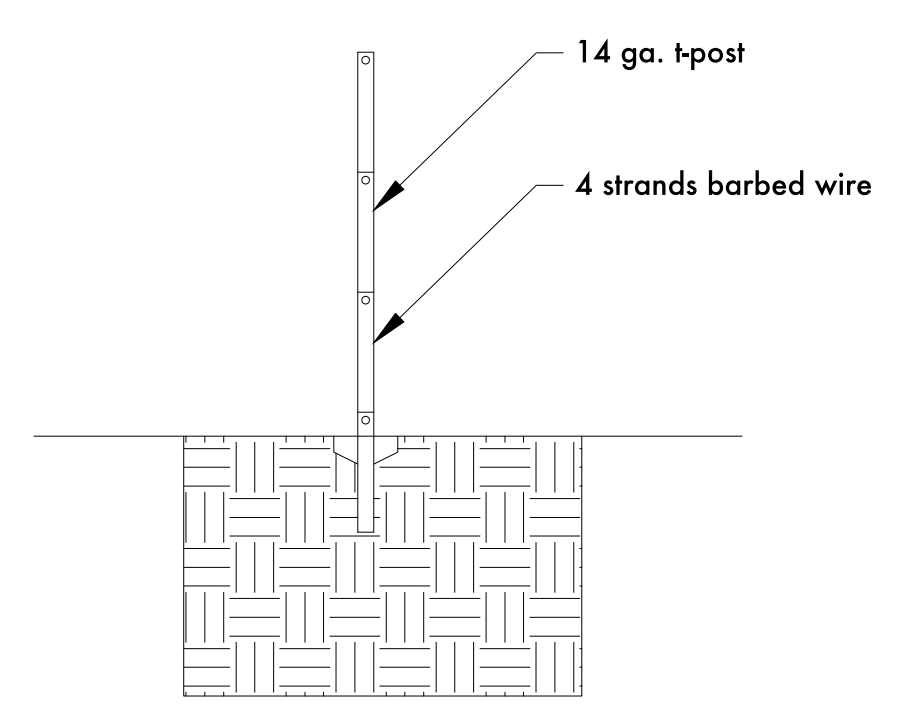
5 SITE WALL
A7.0 1/2" = 1'-0"



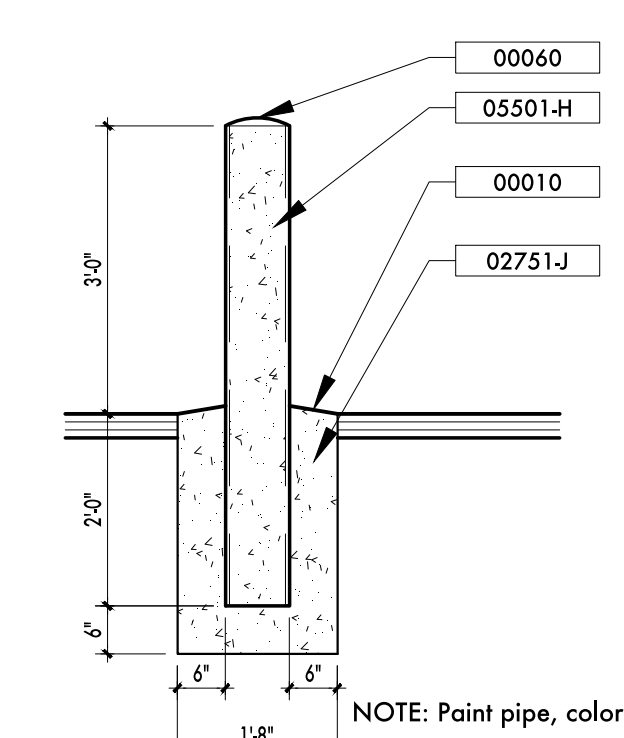
6 STAIR
A7.0 1/2" = 1'-0"



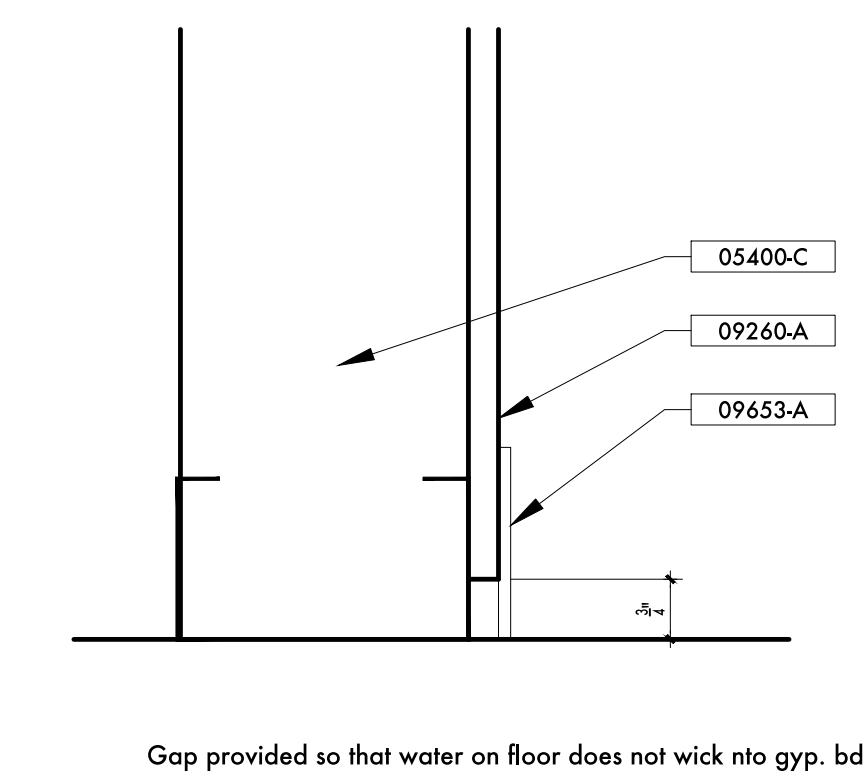
7 DISABLED PARKING SIGNAGE
A7.0 1/2" = 1'-0"



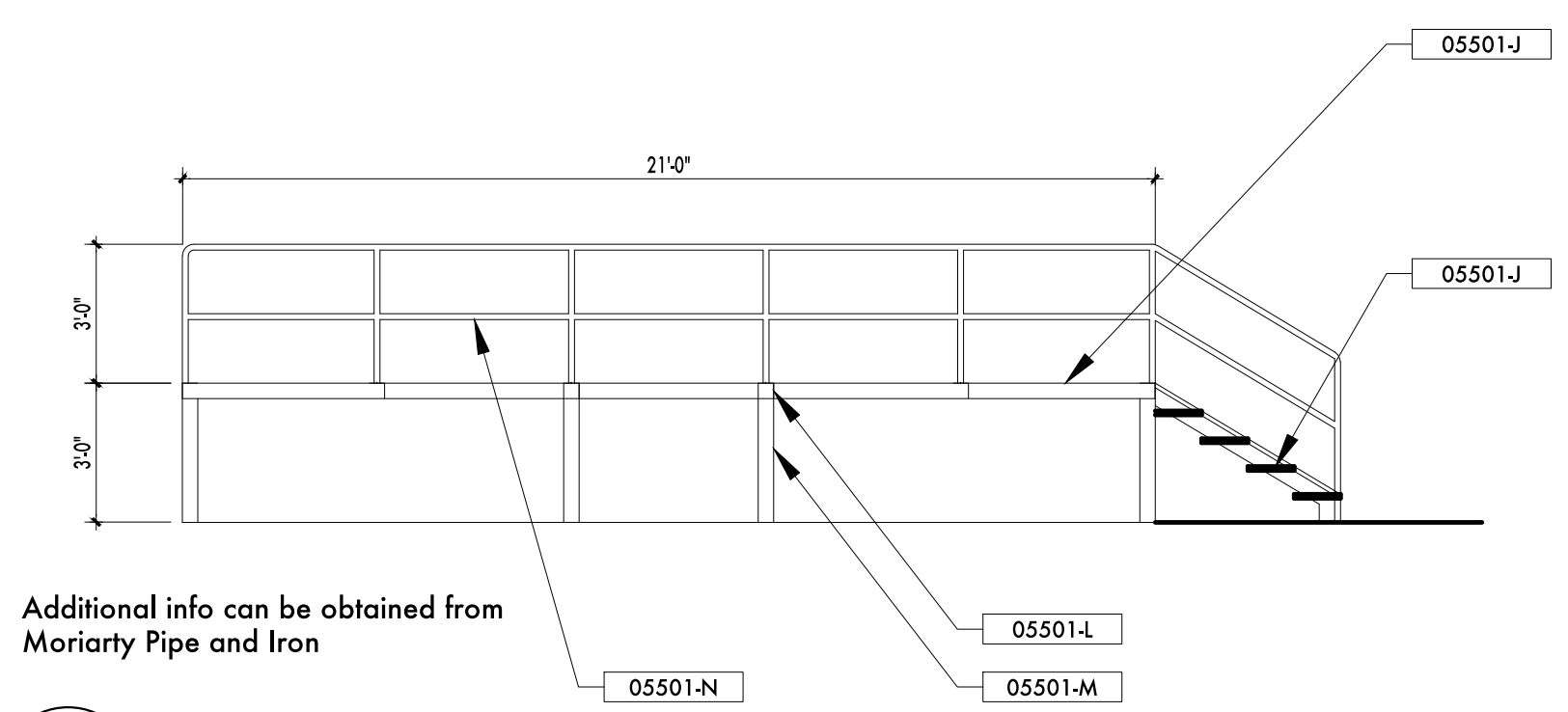
8 BARBED WIRE FENCE
A7.0 1/2" = 1'-0"



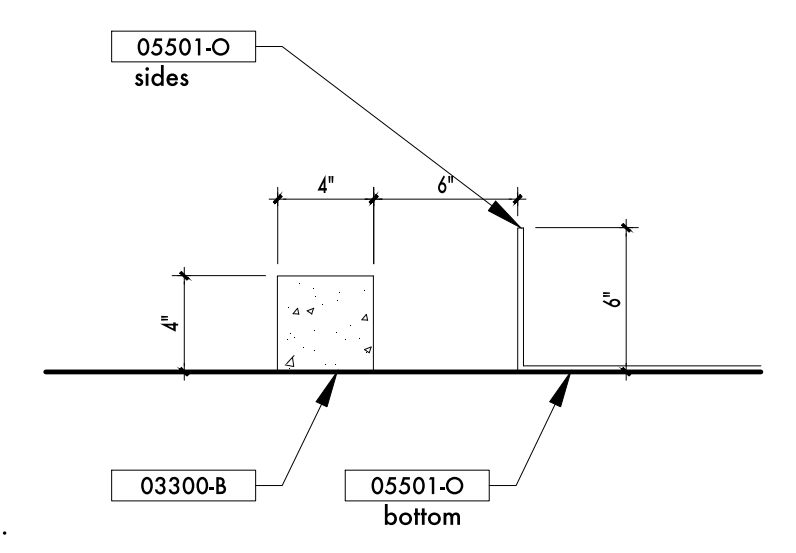
9 BOLLARDS
A7.0 1/2" = 1'-0"



10 WALL DETAIL - GYP. WALLS
A7.0 3" = 1'-0"



11 CATWALK - ALLOWANCE (SEE SPEC SECTION 01210)
A7.0 1/4" = 1'-0"



12 OIL PAN
A7.0 3/4" = 1'-0"

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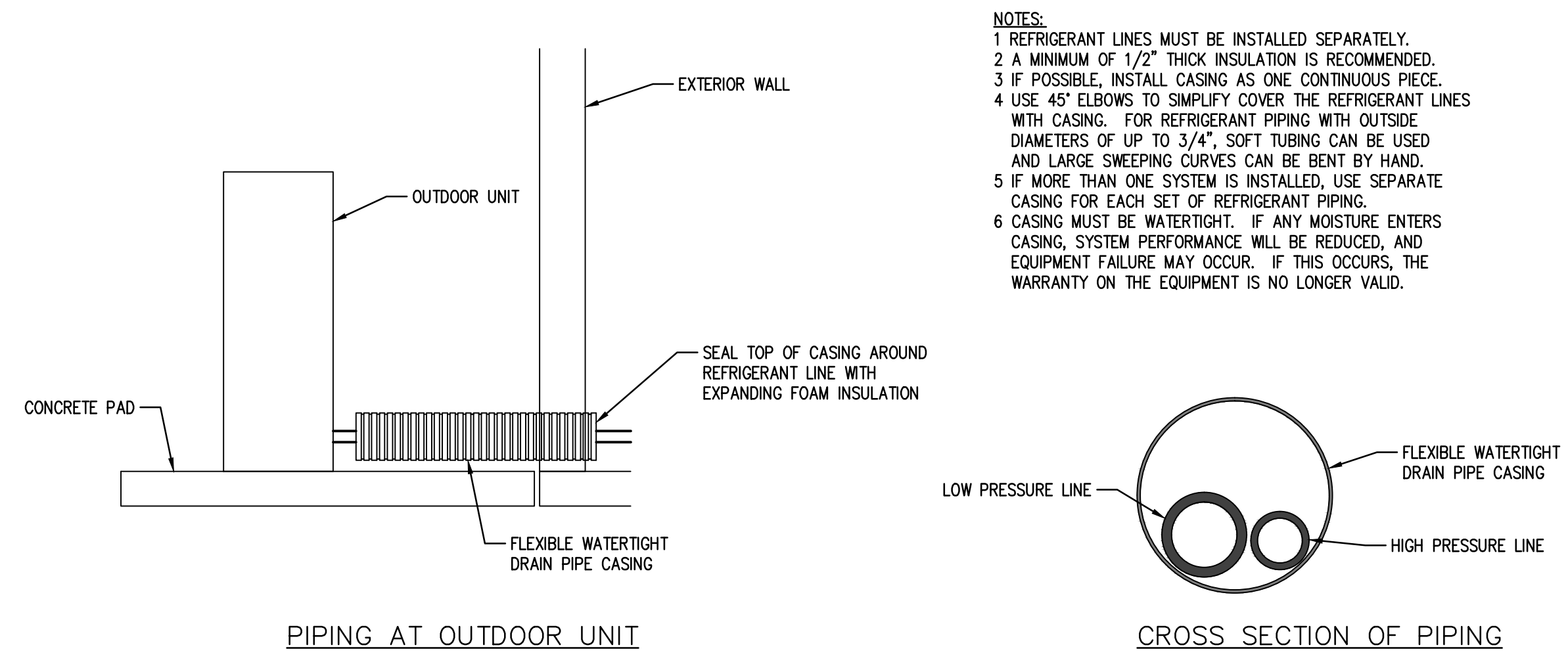
Revisions



FINISH SCHEDULE
DETAILS

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9.10.15
A7.0
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- NOTES:**
- 1 REFRIGERANT LINES MUST BE INSTALLED SEPARATELY.
 - 2 A MINIMUM OF 1/2" THICK INSULATION IS RECOMMENDED.
 - 3 IF POSSIBLE, INSTALL CASING AS ONE CONTINUOUS PIECE.
 - 4 USE 45° ELBOWS TO SIMPLY COVER THE REFRIGERANT LINES WITH CASING. FOR REFRIGERANT PIPING WITH OUTSIDE DIAMETERS OF UP TO 3/4", SOFT TUBING CAN BE USED AND LARGE SWEEPING CURVES CAN BE BENT BY HAND.
 - 5 IF MORE THAN ONE SYSTEM IS INSTALLED, USE SEPARATE CASING FOR EACH SET OF REFRIGERANT PIPING.
 - 6 CASING MUST BE WATER-TIGHT. IF ANY MOISTURE ENTERS CASING, SYSTEM PERFORMANCE WILL BE REDUCED, AND EQUIPMENT FAILURE MAY OCCUR. IF THIS OCCURS, THE WARRANTY ON THE EQUIPMENT IS NO LONGER VALID.

2
INSTALLATION OF REFRIGERANT PIPING DETAIL
NOT TO SCALE

EXHAUST AIR (E.A.) CALCULATION

SPACE NAME	HEIGHT - FT.	AREA - SQ.FT.	E.A. AIR CHANGES/HR.	REQUIRED E.A. - CFM
MAIN FLOOR	20	4,930	6	9,860
TUNNEL	34	1,225	6	4,165
				TOTAL 14,025 CFM

HVAC VENTILATION REQUIREMENTS PER 2009 UMC CHAPTER 4 (ASHRAE 62.1)

SPACE NAME	AREA - SQ.FT.	O.A. OPENING REQUIRED (SQ. FT.)	NOTES
BREAK ROOM	150	6	①
CHECK-IN/OFFICE	150	6	②

- ① MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE 4 PERCENT OF THE AREA BEING VENTILATED PER 2006 IBC CHAPTER 12.
- ② 3 WINDOWS = 11.5 SQ. FT.
- ③ 1 ENTRY DOOR = 20.0 SQ. FT.

KEYED NOTES

- 1 MOUNT FAN UNIT IN CEILING GRID. ROUTE REFRIGERANT LINES TO OUTDOOR UNIT AND CONDENSATE LINE TO ??.
- 2 MOUNT EXHAUST FAN IN CEILING. ROUTE 6" DUCT TO WALL CAP.
- 3 MOUNT HEATER IN WALL.
- 4 LOCATE HEAT PUMP WITH CLEARANCES TO BUILDING AS RECOMMENDED BY MANUFACTURER.
- 5 ROUTE REFRIGERANT PIPING BETWEEN HEAT PUMP AND ASSOCIATED INDOOR FAN UNITS, SEE THIS SHEET DETAIL 2.
- 6 ROUTE REFRIGERANT PIPING ABOVE CEILING TO ASSOCIATED INDOOR FAN UNITS.
- 7 MOUNT HEATER CENTERED ABOVE DOOR.
- 8 MOUNT VENTILATION FAN IN WALL. LOCATE AND COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 9 MOUNT LOUVER IN WALL. LOCATE AND COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 10 MOUNT EXHAUST FAN IN CEILING. ROUTE 7" DUCT TO WALL CAP.

EQUIPMENT SCHEDULE

FU-# FAN UNIT: MITSUBISHI CEILING RECESSED INDOOR UNITS WITH COMPACT DESIGN CONTAINING EVAPORATOR COIL, DIRECT DRIVE MULTI-SPEED FAN, MICROPROCESSOR CONTROLS WITH SELF DIAGNOSTICS, WIDE AIRFLOW CONTROL FOR OPTIMAL AIR DISTRIBUTION, CLEANABLE FILTER, AND DESIGNED FOR LOW OPERATING SOUND LEVELS. PROVIDE WITH WIRE REMOTE CONTROLLER THERMOSTAT AND BUILT-IN CONDENSATE PUMP.

SYMBOL	CFM	INCHES S.P.	TOTAL COOL. BTUH	TOTAL HEAT. BTUH	SOUND dBA	VOLTAGE/PHASE	MCA	FLA	WEIGHT	MODEL
FU-1,2	280/350	-	8,400	10,900	29-38	208/230/1	1.0	0.23	36	SLZ-KA09-NA

HP-# HEAT PUMP: MITSUBISHI M-SERIES HYPER-HEATING INVERTER COOLING AND HEATING OUTDOOR HEAT PUMP CONDENSING UNIT UTILIZING R410A REFRIGERANT WITH INVERTER DRIVEN SCROLL COMPRESSOR, VARIABLE SPEED OUTDOOR FAN, MULTI-CIRCUITED CONDENSER COILS, AND LOW OPERATING SOUND LEVELS. UNIT TO PROVIDE 100% OF RATED HEATING CAPACITY AT 5F AND 80% AT MINUS 13F OUTDOOR AMBIENT TEMPERATURES.

SYMBOL	TOTAL COOLING @ 115F BTUH	TOTAL HEATING @ 12F BTUH	REF. LBS.	SOUND dBA	VOLTAGE/PHASE	MCA	MOP	WEIGHT	MODEL
HP-1	18,000	22,000	-	54	208/230/1	29	40	187	MXZ-2C20NAHZ ①

① UNIT FOR FAN UNITS FU-1 AND 2.

EF-# EXHAUST FAN: GREENHECK PREMIUM CEILING EXHAUST FAN. PROVIDE WITH DECORATIVE GRILLE, VERTICAL DISCHARGE, BACKDRAFT DAMPER, AND WALL CAP.

SYMBOL	CFM	INCHES S.P.	WATTS	VOLTAGE/PHASE	RPM	MAX. SONES	MODEL
EF-1,2	75	0.25	49	120/1	950	1.6	SP-A110
EF-3	120	0.25	113	120/1	1400	3.2	SP-A190 ①

① PROVIDE WITH IN-LINE THERMOSTAT.

EW-# ELECTRIC WALL HEATER: QMARK MODEL GFR FAN-FORCED WALL HEATER WITH BUILT-IN THERMOSTAT.

SYMBOL	WATTS	VOLTAGE/PHASE	AMPS	WEIGHT (LBS)	MODEL
EW-1,2	375	120/1	3.1	10	GFR1500

EUH-# ELECTRIC UTILITY HEATER: QMARK UTILITY WELL HOUSE HEATER, EPOXY COATED CORROSION PROTECTED ENCLOSURE, INTEGRAL THERMOSTAT, AND FOR 120V OR 240/208V SINGLE PHASE POWER SUPPLY.

SYMBOL	WATTS	VOLTAGE/PHASE	AMPS	MODEL
EUH-1,2	500/375	120/208/240	4.2/1.8/2.1	WHT500

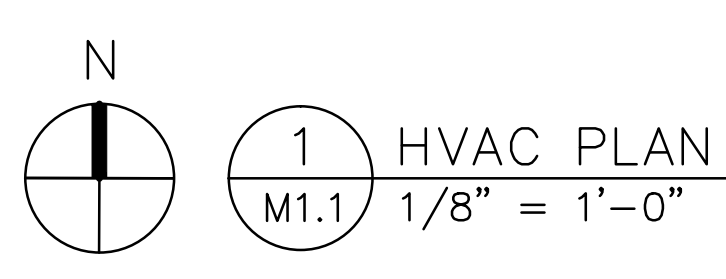
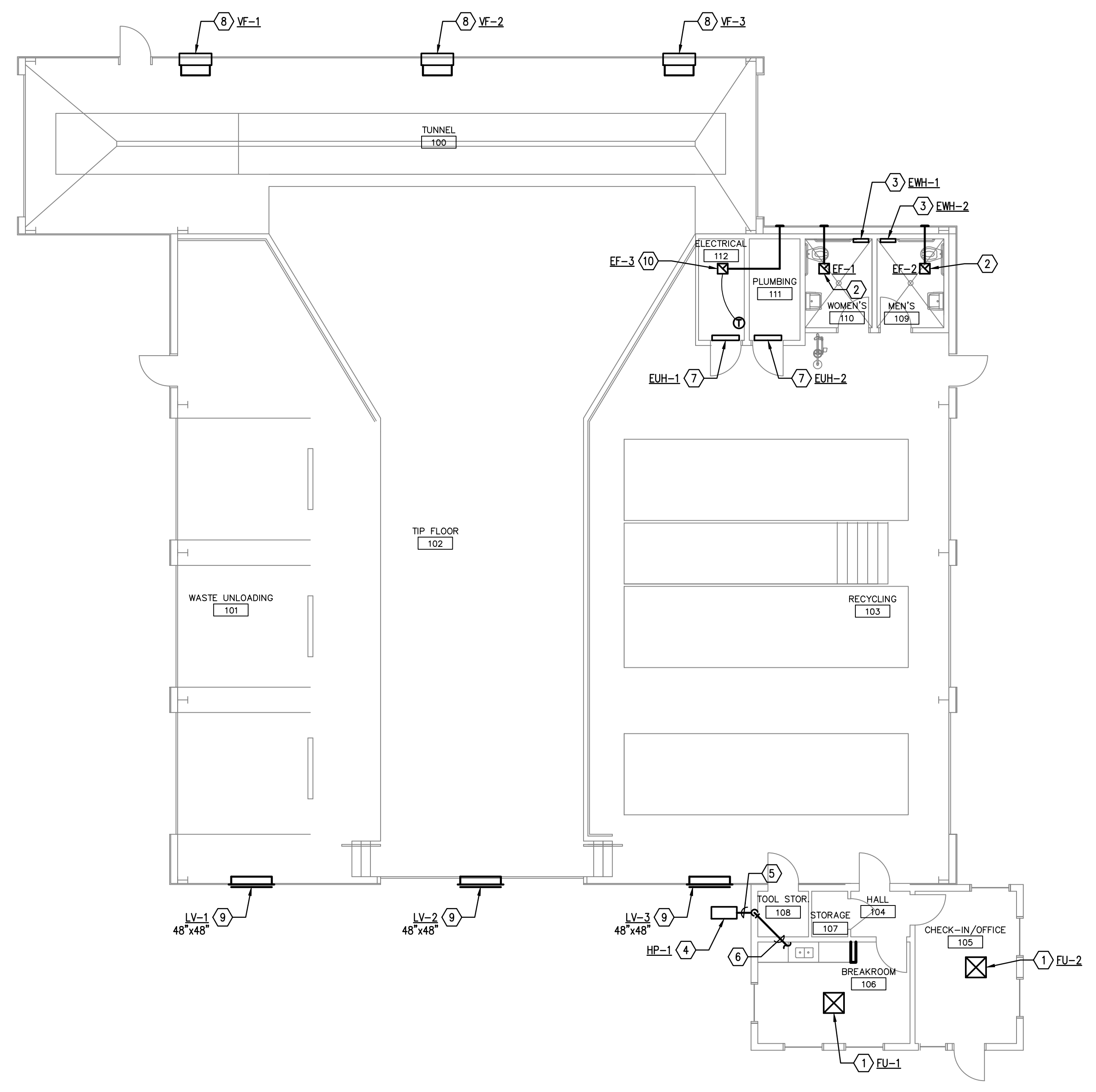
VF-# VENTILATION FAN: GREENHECK BELT DRIVE PROPELLER FAN. PROVIDE WITH WALL COLLAR, BACKDRAFT DAMPER, AND MOTOR SIDE GUARD.

SYMBOL	CFM	INCHES S.P.	HP	VOLTAGE/PHASE	RPM	MODEL
VF-1,2,3	4,800	0.25	1/2	120/1	-	SB-2L24-5

LV-1,2,3 LOUVER: GREENHECK MODEL ESJ-401 HIGH FREE AREA/LOW AIRFLOW RESISTANCE COMBUSTION AIR/OUTSIDE AIR LOUVER COMPLETE WITH BIRDSCREEN. PROVIDE WITH GREENHECK VCD-23 CONTROL DAMPER AND 120V ELECTRIC SPRING RETURN, POWER OPEN, TWO POSITION INTERNAL ACTUATOR. SIZE AS SHOWN ON DRAWINGS.

VENTILATION SYSTEM SEQUENCE OF OPERATION

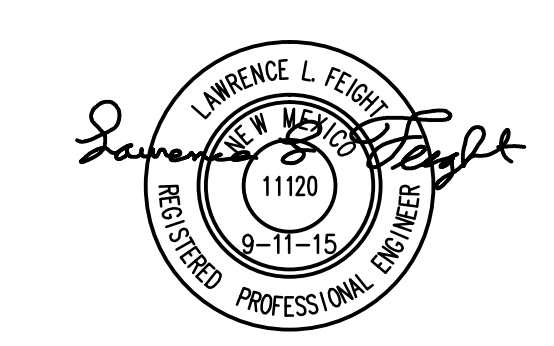
BUILDING VENTILATION SYSTEM IS MANUALLY ACTIVATED BY SWITCH. WHEN SWITCH IS MADE, VENTILATION FANS VF-1, 2 AND 3 ARE ENABLED AND ASSOCIATED LOUVERS LV-1, 2 AND 3 ARE OPENED.



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Revisions

HVAC PLAN, DETAIL AND EQUIPMENT SCHEDULE



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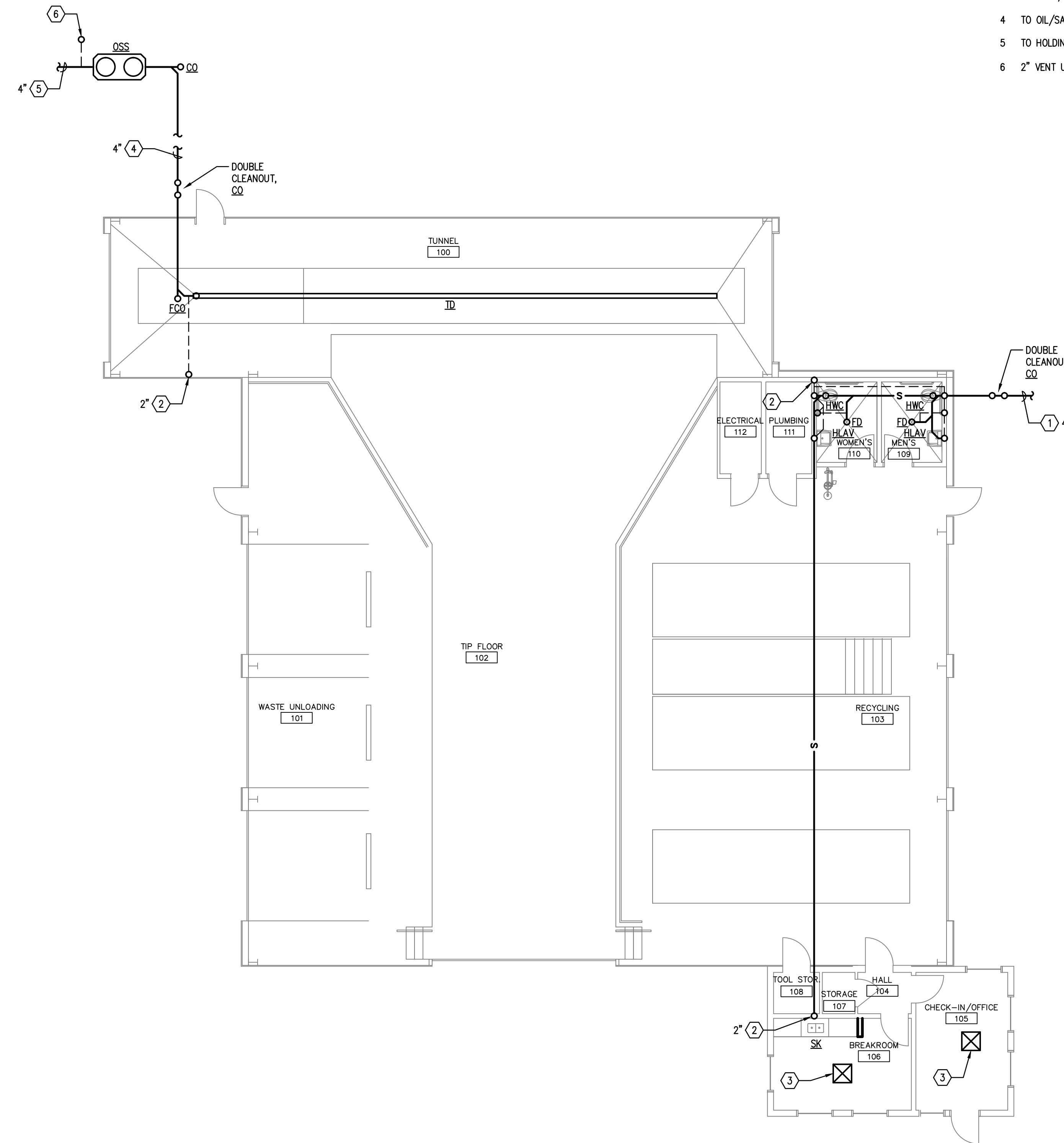
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GENERAL NOTES

- A FOR SYMBOL LEGEND, SEE SHEET P2.1.
- B FOR FIXTURE SCHEDULE, SEE SHEET P2.1.
- C FOR WASTE AND VENT PIPING SIZES, SEE SHEET P2.1 DETAIL 1.

KEYED NOTES

- 1 TO SEPTIC SYSTEM, SEE CIVIL.
- 2 ROUTE PLUMBING VENT UP THROUGH ROOF.
- 3 ROUTE 3/4" CONDENSATE FROM FAN UNIT TO EXTERIOR.
- 4 TO OIL/SAND SEPARATOR, SEE CIVIL.
- 5 TO HOLDING TANK, SEE CIVIL.
- 6 2" VENT UP TO 36" ABOVE FINISH GRADE WITH ELBOW TURNED DOWN.

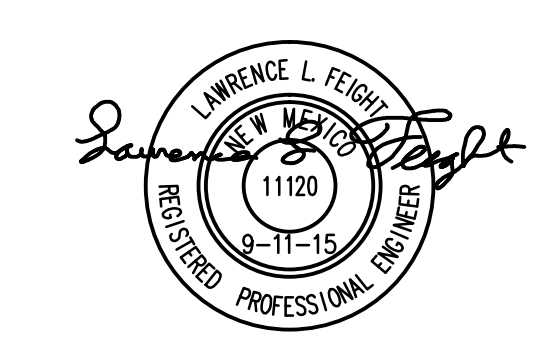


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Revisions

SANITARY SEWER PLAN

N
1 SANITARY SEWER PLAN
P1.1 1/8" = 1'-0"



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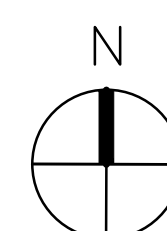
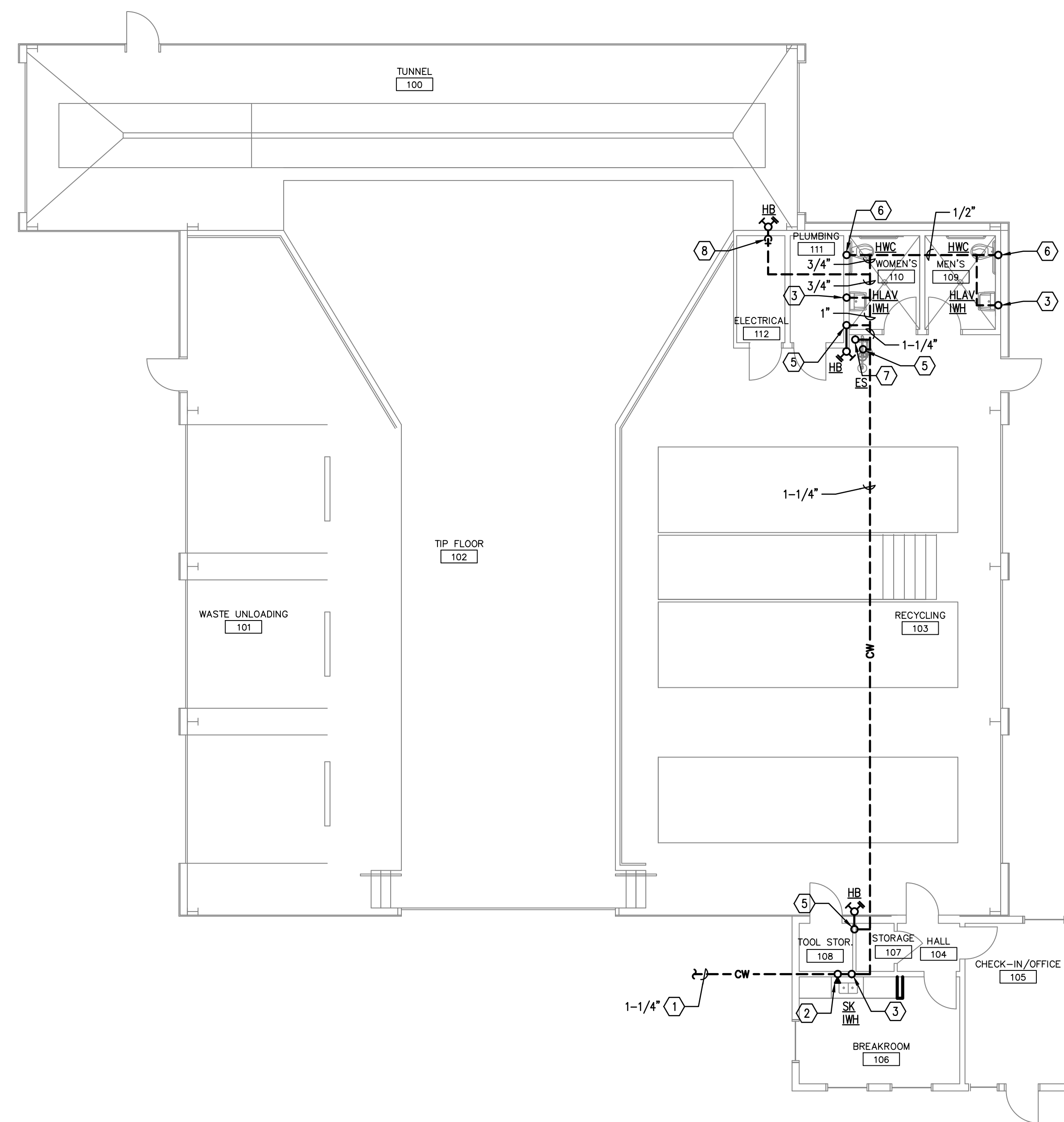
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- of -

GENERAL NOTES

- A FOR SYMBOL LEGEND, SEE SHEET P2.1.
- B FOR FIXTURE SCHEDULE, SEE SHEET P2.1.

KEYED NOTES

- 1 FROM WELL, SEE CIVIL.
- 2 INSTALL MAIN SHUT-OFF VALVE IN WALL BELOW COUNTER. PROVIDE ACCESS DOOR FOR SERVICE.
- 3 ROUTE 1/2" WATER PIPE UP TO INSTANTANEOUS WATER HEATER AND SINK, SEE SHEET P2.1 DETAIL 2.
- 4 ROUTE 3/4" WATER PIPE ON SURFACE OF WALL UP TO HOSE BIBB.
- 5 3/4" WATER PIPE UP TO FIXTURE.
- 6 1/2" WATER PIPE UP TO FIXTURE.
- 7 1-1/4" WATER PIPE UP TO FIXTURE.
- 8 3/4" WATER DOWN TO FIXTURE.

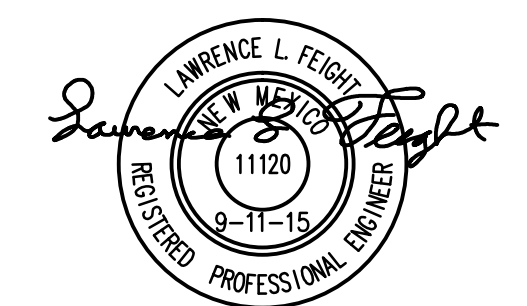


1 WATER PIPING PLAN
P1.2 1/8" = 1'-0"

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Santa Fe, New Mexico

Revisions

WATER PIPING PLAN



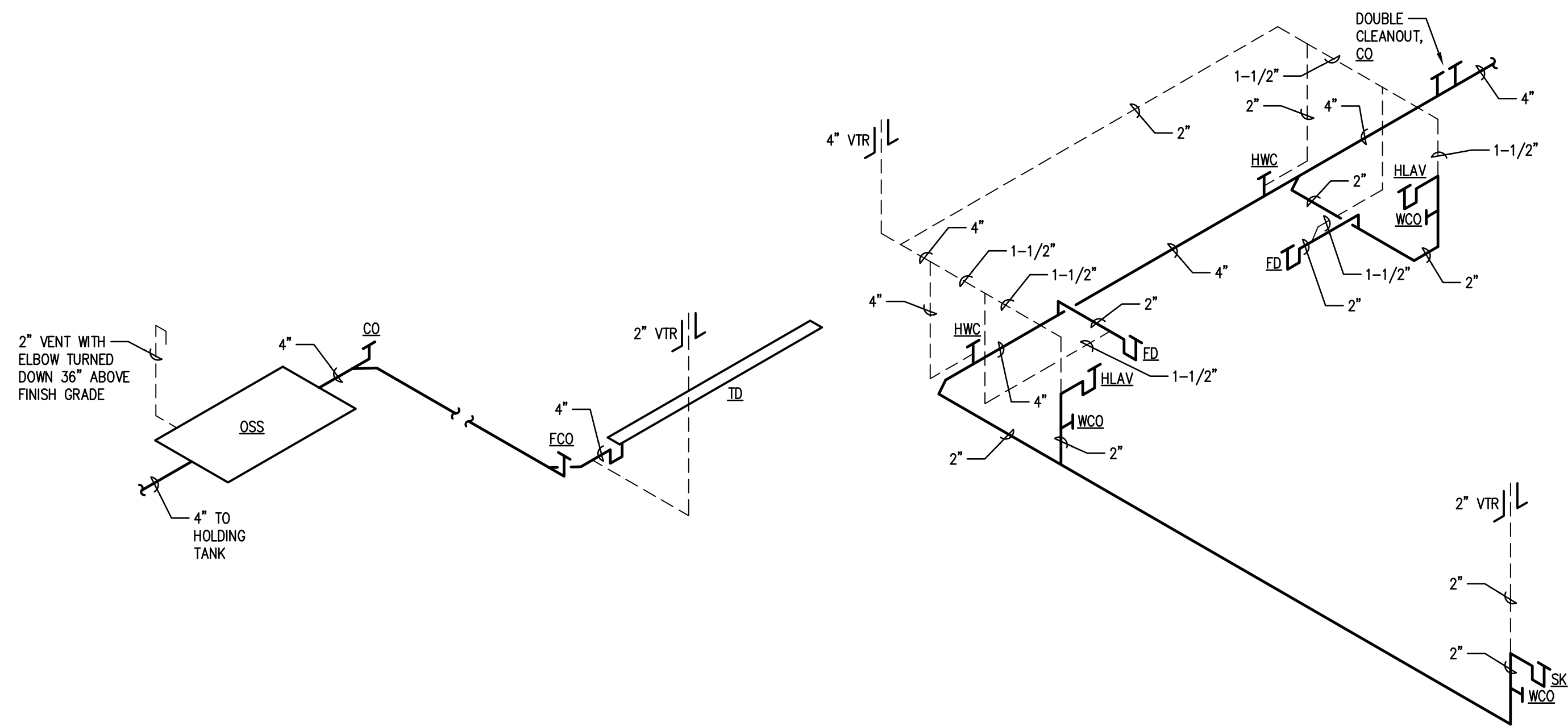
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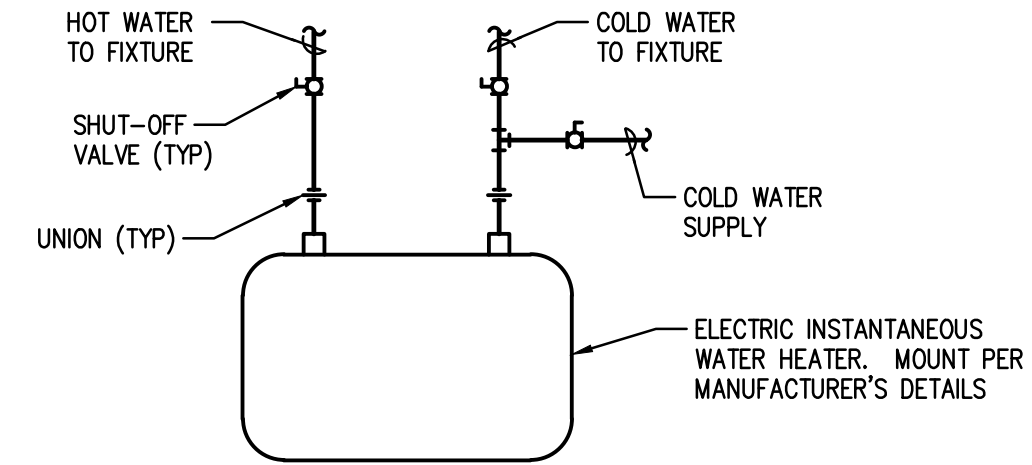
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1 WASTE AND VENT RISER
P2.1 NOT TO SCALE



2 WATER HEATER DETAIL
P2.1 NOT TO SCALE

SYMBOL LEGEND

---	CW	UNDERGROUND DOMESTIC COLD WATER PIPING (CW)
---		DOMESTIC COLD WATER PIPING (CW)
---	S	SANITARY SEWER PIPING
---		VENT PIPING
---	FP	FIRE PROTECTION PIPING
⊕		BALL VALVE
⊕		HOSE BIBB
⊕		UNION
⊕		VALVE IN PIPE RISE/DROP

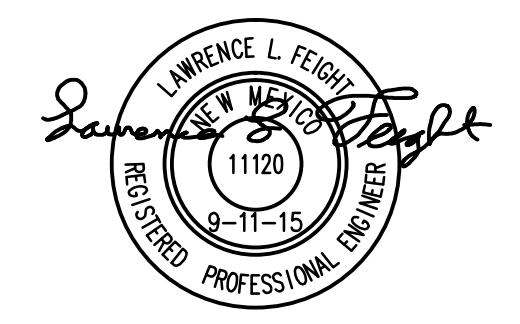
FIXTURE SCHEDULE (OR EQUAL)

HWC	WATER CLOSET (HANDICAPPED): AMERICAN STANDARD "CADET 3" MODEL 2386.012 VITREOUS CHINA TANK TYPE TOILET, CLOSE-COUPLED TANK, 16-1/2" HIGH ELONGATED SIPHON, JET FLUSH ACTION BOWL, 1.6 GPF, FULLY GLAZED TRAPWAY, AND 3" FLUSH VALVE WITH CHEMICAL RESISTANT FLAPPER. SUPPLIED WITH CHURCH 383SS WHITE CLOSED FRONT ELONGATED SEAT WITH COVER AND STAINLESS STEEL HINGES, MCGUIRE H166 STOP AND SUPPLY.
HLAV	LAVATORY: AMERICAN STANDARD "LUCERNE" MODEL 0356.015 VITREOUS CHINA 20"x18" WALL HUNG LAVATORY, SELF-DRAINING DECK AREA WITH BACK AND SIDE SPLASH SHIELDS, FAUCET LEDGE ON 8" C-C, DRILLED FOR CONCEALED ARM SUPPORT. SUPPLIED WITH KOHLER MODEL K-15182-F SINGLE LEVER FAUCET WITH CERAMIC DISC VALVE, ADA COMPLIANT HANDLE, HIGH-TEMPERATURE LIMIT SETTING (CSA B125.3 COMPLIANT), 1.5 GPM, SMITH 700 CONCEALED ARM CARRIER, MCGUIRE 8872 P-TRAP, 167 STOPS AND SUPPLIES. INSULATE DRAINLINE AND WATER SUPPLIES WITH TRUEBRO 102E-Z INSULATION KIT. NOTE: INSTALL FRONT RIM OF LAVATORY 34" ABOVE FINISHED FLOOR.
SK	SINK: ELKAY LRAD-3321 DOUBLE COMPARTMENT ADA COMPLIANT 18 GAUGE, STAINLESS STEEL SINK WITH 3 FAUCET HOLES. SUPPLIED WITH LK-232-S-BHS UNDERMOUNT FAUCET WITH HEAVY DUTY GOOSENECK SPOUT, 5" WRIST HANDLES, LK-35 DUO STRAINERS, LK-53 DRAIN FITTING, MCGUIRE P-TRAP, MCGUIRE STOPS AND SUPPLIES.
IWH	INSTANTANEOUS WATER HEATER: CHRONOMITE MODEL SR-15L/120, 120V, 1,800 WATTS, 31 DEGREE RISE AT 0.4 GPM FLOW.
ES	EMERGENCY SHOWER/EYEWASH: GUARDIAN MODEL GFR1902-FC20 FREEZE RESISTANT COMBINATION EYEWASH AND SHOWER SAFETY STATION WITH 10" DIAMETER ORANGE ABS PLASTIC SHOWER HEAD, 1-1/2" IPS FREEZE RESISTANT SHOWER VALVE WITH PUSH PLATE, TWO EYEWASH SPRAY HEADS WITH FLIP TOP DUST COVERS, 11-1/2" DIAMETER STAINLESS STEEL EYEWASH BOWL, 3/4" IPS FREEZE RESISTANT EYEWASH VALVE WITH PUSH PLATE, FURNISHED WITH ANSI-COMPLIANT IDENTIFICATION SIGN AND 20 GPM FLOW REGULATOR.
HB	HOSE BIBB: PRIER MODEL C-634 FREEZELESS CAST BRASS WALL HYDRANT WITH SATIN NICKEL PLATED BODY, ANTI-SIPHON VACUUM BREAKER, AUTOMATIC DRAINING, SOLID NON-FERROUS OPERATING ROD, TRIPLE SEAL POSITIVE SHUT-OFF SYSTEM, LOOSE TEE KEY, PRIER MODEL C-624BX1 SATIN NICKEL PLATED BOX WITH CYLINDER LOCKING DOOR.
FD	FLOOR DRAIN: ZURN MODEL Z-415-S FLOOR DRAIN, CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP, ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, TYPE "S" POLISHED NICKEL BRONZE SQUARE HEEL-PROOF LIGHT DUTY STRAINER. PROVIDE WITH TRAP GUARD MODEL TG22 TRAP SEAL.
CO	CLEANOUT: ZURN MODEL Z-1400-HD ADJUSTABLE CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT BRONZE PLUG, AND ROUND SCORIATED SECURED HEAVY DUTY TOP, ADJUSTABLE TO FINISHED FLOOR.
FCO	FLOOR CLEANOUT: ZURN MODEL Z-1400 ADJUSTABLE CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT BRONZE PLUG, AND ROUND SCORIATED SECURED TOP, ADJUSTABLE TO FINISHED FLOOR.
WCO	WALL CLEANOUT: ZURN MODEL Z-1441 WALL CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT BRONZE PLUG, AND ROUND, SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW.
TD	TRENCH DRAIN: J.R. SMITH ENVRO-FLO TRENCH DRAIN SYSTEM, 9931 SERIES, CHANNEL SLOPE DRAINAGE SYSTEM COMPLETE WITH CHANNEL (METER & 1/2 METER SECTIONS), OUTLET/INLET CAPS, CLOSING CAPS, HEAVY DUTY DUCTILE IRON SLOTTED GRATING MODEL 9870-461-M.
OSS	OIL SAND SEPARATOR: STRIEM MODEL OS-100-4M, SEAMLESS ROTATIONALLY-MOLDED HIGH DENSITY POLYETHYLENE BODY WITH LIFETIME GUARANTEE. PROVIDED WITH FIELD ADJUSTABLE RISER SYSTEM, BUILT-IN FLOW CONTROL, BUILT-IN TEST CAPS, 4" MALE THREADED INLET AND OUTLET, AND COVERS WITH LIQUID AND GAS TIGHT SEAL. INTERCEPTOR FLOW RATED AT 100 GPM, 275 GALLON LIQUID CAPACITY, 147.5 GALLON OIL CAPACITY, 105 GALLON SAN CAPACITY. PROVIDE WITH TELEGLIDE RISER TO MATCH FINISH GRADE.

JACONA COLLECTION CENTER
SANTA FE COUNTY
Santa Fe, New Mexico

Revisions

SYMBOL LEGEND, DETAILS
AND FIXTURE SCHEDULE



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P2.1
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REVISIONS

POWER PLAN

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9.10.15
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GENERAL NOTES

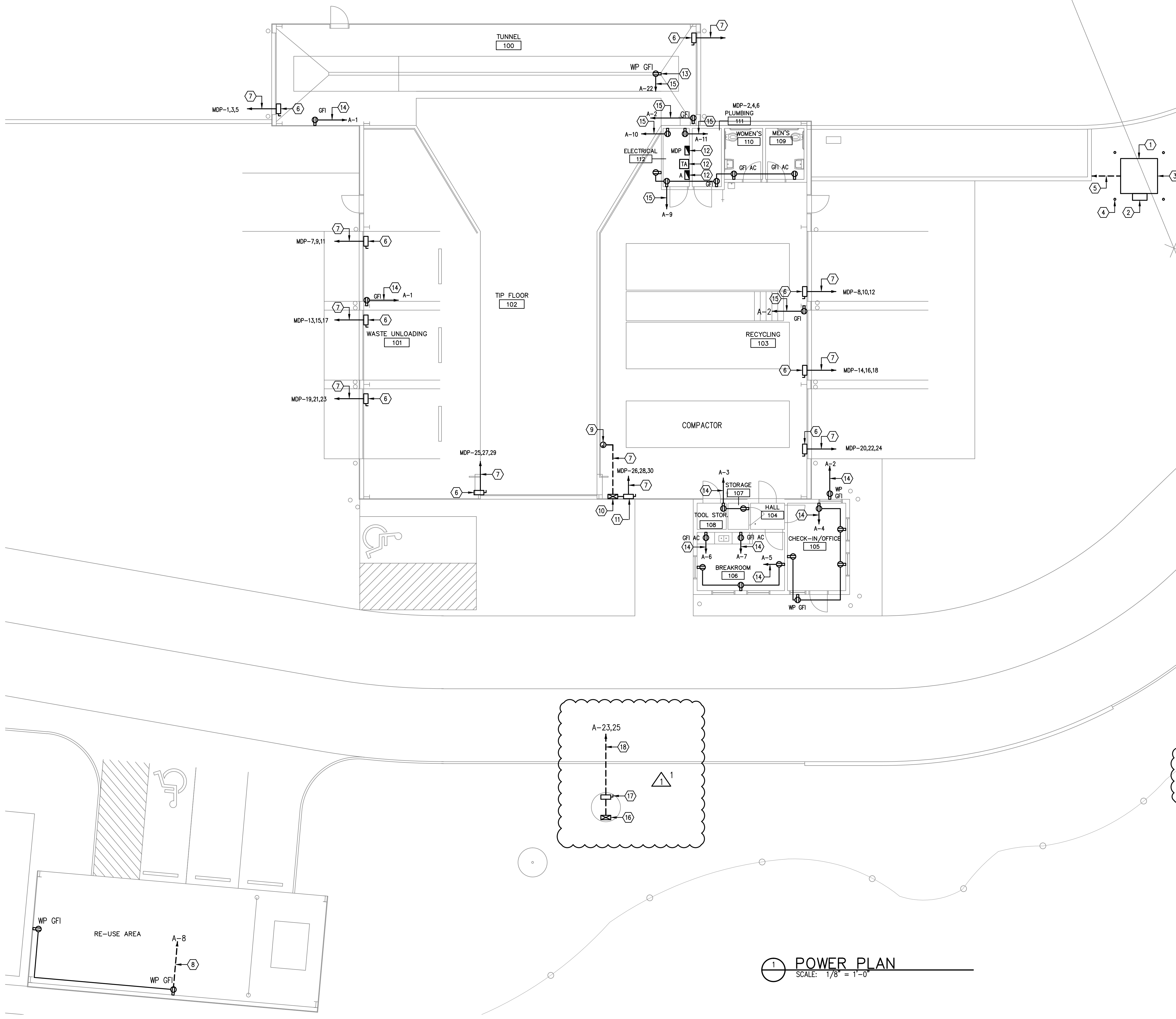
- A FOR POWER RISER DIAGRAM SEE SHEET E4.1.
- B FOR CONDUCTOR SIZES SEE SHEETS E1.1, E1.2, E2.1 AND E4.1.
- C FOR GROUNDING CONDUCTOR SIZES SEE SHEETS E1.1, E1.2, E2.1 AND E4.1.
- D FOR METHOD OF GROUNDING SEE SHEET E6.1.
- E FOR LOAD CALCULATIONS SEE SHEETS E4.2.
- F FOR FAULT CURRENT CALCULATIONS SEE SHEET E4.1.
- G FOR DISCONNECT SIZES AND LOCATIONS SEE SHEETS E1.1, E1.2 AND E4.1.
- H FOR PANEL SCHEDULE SEE SHEET E4.2.
- I FOR WIRING METHODS SEE SHEET E4.1 AND E6.1.
- J FOR IECC LIGHTING BUDGET CALCULATIONS SEE SHEET E5.1.
- K FOR ELECTRICAL LEGEND SEE SHEET E5.1.
- L FOR ELECTRICAL SPECIFICATIONS SEE SHEET E6.1.
- M CONDUITS ARE 1/2" UNLESS INDICATED OTHERWISE.
- N CONDUCTORS ARE #12 THHN/THWN, COPPER UNLESS INDICATED OTHERWISE.
- P PROVIDE UL LISTED FIRE STOP ASSEMBLY FOR CONDUIT PENETRATIONS THROUGH FIRE RATED CEILING, FLOORS, WALLS AND PARTITIONS.
- Q MC CABLE MAY BE USED WHERE ALLOWED BY CODE.
- R FOR LIGHTING FIXTURE SCHEDULE SEE SHEET E4.01.
- S INSTALL BURIED CONDUIT A MINIMUM OF 24 INCHES BELOW GRADE.
- T BACK FILL ELECTRICAL CONDUIT TRENCHES WITH ENGINEERED FILL.
- U PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- V COMPACT ELECTRICAL CONDUIT TRENCHES TO 95%.
- W INSTALL ELECTRICAL WARNING TAPE 12" ABOVE EACH CONDUIT.

KEYED NOTES

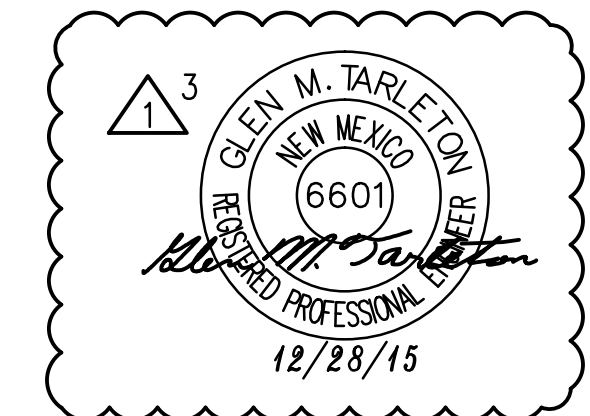
- 1 THREE-PHASE, PAD MOUNT UTILITY TRANSFORMER. FOR ADDITIONAL INFORMATION SEE POWER RISER DIAGRAM.
- 2 THREE-PHASE, THIRTEEN TERMINAL, CT RATED METER ENCLOSURE PER PNM MS-2-7.0.
- 3 THREE-PHASE, RADIAL FEED, TRANSFORMER PAD PER PNM DS-7-16.5.
- 4 GUARD POST PER PNM DS-7-16.10.
- 5 SECONDARY CONDUIT AND CONDUCTORS. FOR ADDITIONAL INFORMATION SEE POWER RISER DIAGRAM.
- 6 DISCONNECT, 30 AMP, 480 VOLT, 3-PHASE, 3-WIRE, WITH GROUND, NON-FUSIBLE, NEMA 1. FIELD VERIFY ELECTRICAL REQUIREMENTS AND LOCATION WITH INSTALLER PRIOR TO ROUGH-IN. LABEL WITH PANEL DESIGNATION AND CIRCUIT NUMBER.
- 7 1/2" C, (3) #10, (1) #10 G, THHN/THWN, COPPER.
- 8 3/4" C, (3) #10, (1) #10 G, THHN/THWN, COPPER.
- 9 CONNECT 480 VOLT, 3-HORSEPOWER COMPACTOR. FIELD VERIFY LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 10 COMPACTOR CONTROL PANEL. FIELD VERIFY LOCATION PRIOR TO ROUGH-IN.
- 11 DISCONNECT, 30 AMP, 480 VOLT, 3-PHASE, 3-WIRE, WITH GROUND, FUSIBLE, NEMA 1. FUSE ACCORDING TO EQUIPMENT INSTALLATION INSTRUCTIONS. MAINTAIN PROPER WORKING SPACE. LABEL WITH PANEL NAME AND CIRCUIT NUMBER.
- 12 MAINTAIN PROPER WORKING SPACE. COORDINATE INSTALLATION WITH SPECIAL SYSTEMS CONTRACTOR TO MAINTAIN SPACE IN FRONT OF TELEPHONE BOARD.
- 13 WEATHERPROOF GFI RECEPTACLE FOR HEAT TAPE. FIELD VERIFY LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 14 1/2" C, (2) #10, (1) #10 G, THHN/THWN, COPPER.
- 15 1/2" C, (2) #12, (1) #12 G, THHN/THWN, COPPER.
- 16 WELL PUMP CONTROLLER PROVIDED AND INSTALLED BY WELL CONTRACTOR.
- 17 WELL PUMP DISCONNECT PROVIDED AND INSTALLED BY WELL CONTRACTOR.
- 18 1" C, (2) #8, (1) #8 G, THHN/THWN, COPPER.

REVISIONS

- 1 ADDENDUM #2 ADD WELL 12/28/15



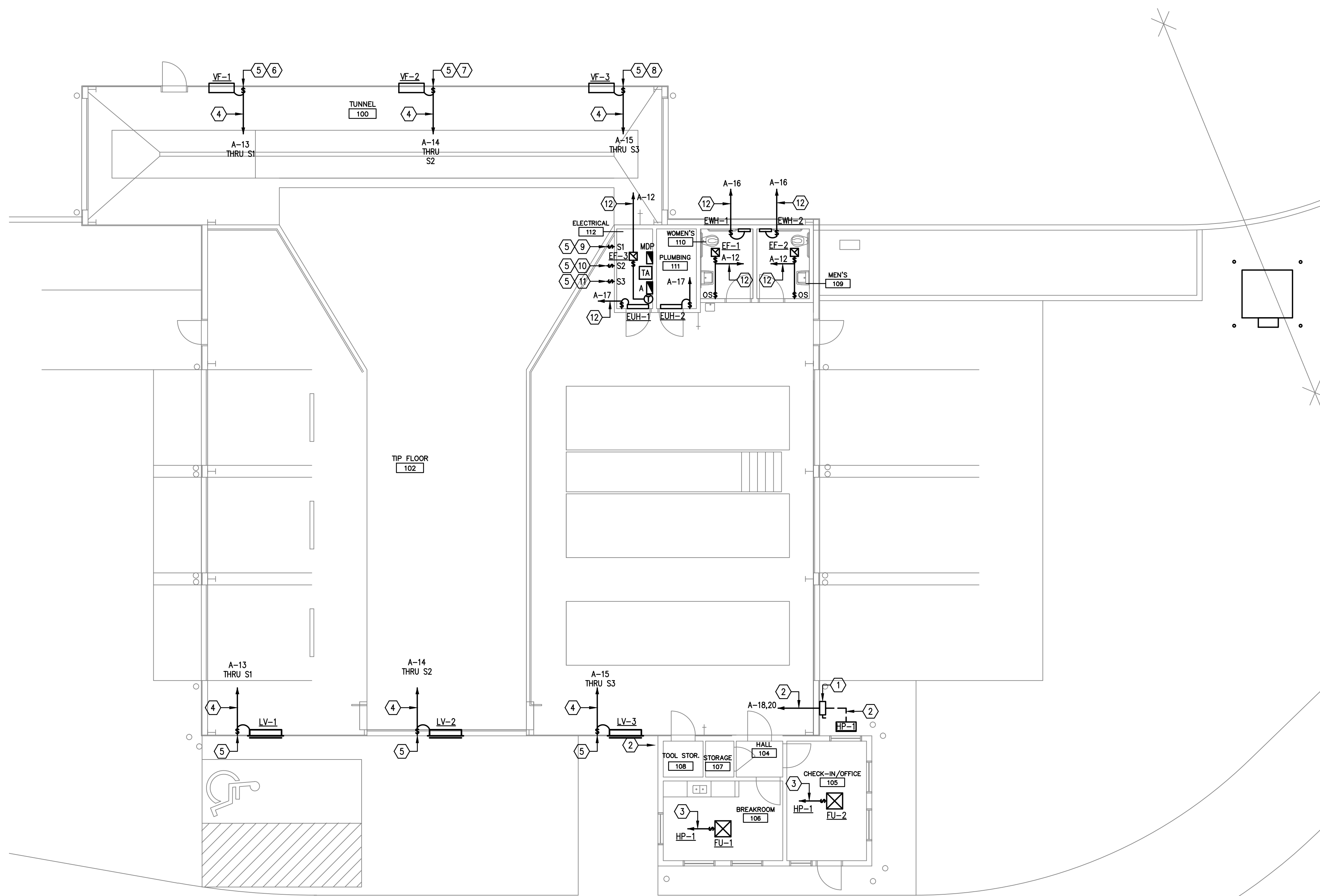
1 POWER PLAN
SCALE: 1/8" = 1'-0"



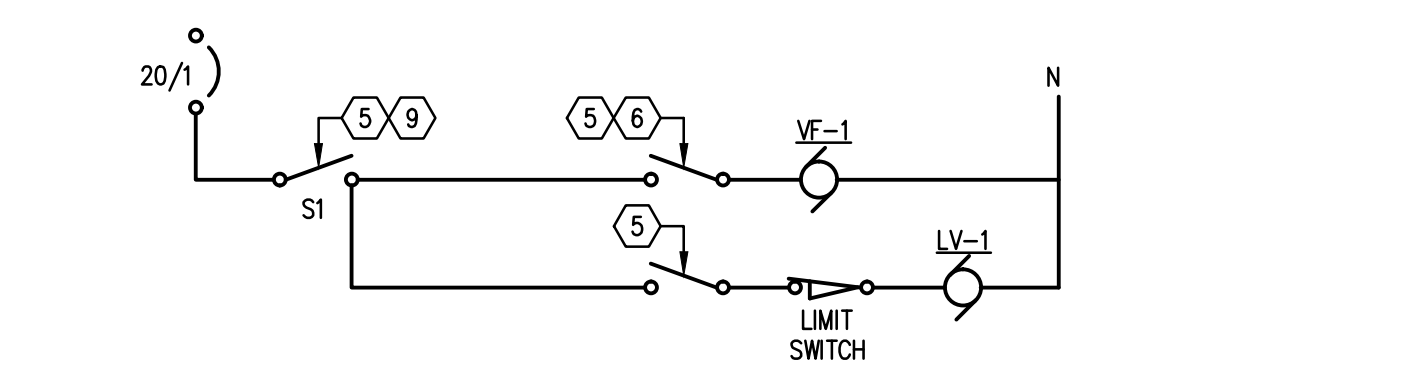
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REVISIONS

MECHANICAL EQUIPMENT
POWER PLAN



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



2 TYPICAL VENTILATION FAN INTERLOCK
SCALE: NTS

VENTILATION SYSTEM SEQUENCE OF OPERATION

BUILDING VENTILATION SYSTEM IS MANUALLY ACTIVATED BY SWITCH. WHEN SWITCH IS MADE, VENTILATION FANS VF-1, 2 AND 3 ARE ENABLED AND ASSOCIATED LOUVERS LV-1, 2 AND 3 ARE OPENED.

GENERAL NOTES

- A FOR POWER RISER DIAGRAM SEE SHEET E4.1.
- B FOR CONDUCTOR SIZES SEE SHEETS E1.1, E1.2, E2.1 AND E4.1.
- C FOR GROUNDING CONDUCTOR SIZES SEE SHEETS E1.1, E1.2, E2.1 AND E4.1.
- D FOR METHOD OF GROUNDING SEE SHEET E6.1.
- E FOR LOAD CALCULATIONS SEE SHEETS E4.2.
- F FOR FAULT CURRENT CALCULATIONS SEE SHEET E4.1.
- G FOR DISCONNECT SIZES AND LOCATIONS SEE SHEETS E1.1, E1.2 AND E4.1.
- H FOR PANEL SCHEDULE SEE SHEET E4.2.
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- Q MC CABLE MAY BE USED WHERE ALLOWED BY CODE.
- R FOR LIGHTING FIXTURE SCHEDULE SEE SHEET E4.01.
- S INSTALL BURIED CONDUIT A MINIMUM OF 24 INCHES BELOW GRADE.
- T BACK FILL ELECTRICAL CONDUIT TRENCHES WITH ENGINEERED FILL.
- U PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- V COMPACT ELECTRICAL CONDUIT TRENCHES TO 95%.
- W INSTALL ELECTRICAL WARNING TAPE 12" ABOVE EACH CONDUIT.

KEYED NOTES

- 1 DISCONNECT, 60 AMP, 208 VOLT, SINGLE PHASE, 2-WIRE, WITH GROUND, FUSIBLE NEMA 3R. FUSE ACCORDING TO EQUIPMENT INSTALLATION INSTRUCTIONS. MAINTAIN PROPER WORKING SPACE. LABEL WITH PANEL NAME AND CIRCUIT NUMBER.
- 2 3/4" C, (2) #6, (1) #10 G, THHN/THWN, COPPER.
- 3 3/4" CONDUIT WITH PULL-STRING. FIELD VERIFY CONDUCTOR REQUIREMENTS WITH INSTALLER PRIOR TO ROUGH-IN.
- 4 1/2" C, (2) #10, (1) #10 G, THHN/THWN, COPPER.
- 5 MOTOR RATED SWITCH, 20 AMP, 120 VOLT, SINGLE POLE, WITH GROUND, NEMA 1 ENCLOSURE.
- 6 INTERLOCK WITH LOUVER LV-1.
- 7 INTERLOCK WITH LOUVER LV-2.
- 8 INTERLOCK WITH LOUVER LV-3.
- 9 LABEL "VENTILATION FAN VF-1".
- 10 LABEL "VENTILATION FAN VF-2".
- 11 LABEL "VENTILATION FAN VF-3".
- 12 1/2" C, (2) #12, (1) #12 G, THHN/THWN, COPPER.

EQUIPMENT SCHEDULE

FU-# FAN UNIT: MITSUBISHI CEILING RECESSED INDOOR UNITS WITH COMPACT DESIGN CONTAINING EVAPORATOR COIL, DIRECT DRIVE, TI-SPEED FAN, MICROPROCESSOR CONTROLS WITH SELF-DIAGNOSTICS, WIDE RANGE CONTROL FOR OPTIMAL AIR DISTRIBUTION, CLEANABLE FILTER, AND DESIGNED FOR LOW OPERATING SOUND LEVELS. PROVIDE WITH MA WIRING REMOTE CONTROLLER THERMOSTAT AND BUILT-IN CONDENSATE PUMP.

SYMBOL	CFM	TOTAL INCHES S.P.	TOTAL COOL. BTUH	TOTAL HEAT. BTUH	SOUND dBA	VOLTAGE/PHASE	MCA	FLA
FU-1,2	280/350	-	8,400	10,900	29-38	208/230/1	1.0	0.23

HP-# HEAT PUMP: MITSUBISHI M-SERIES HYPER-HEATING INVERTER COOLING AND HEATING OUTDOOR HEAT PUMP CONDENSING UNIT UTILIZING R410A REFRIGERANT WITH INVERTER DRIVEN SCROLL COMPRESSOR, VARIABLE SPEED OUTDOOR FAN, MULTI-CIRCUITED CONDENSER COILS, AND LOW OPERATING SOUND LEVELS. UNIT TO PROVIDE 100% OF RATED HEATING CAPACITY AT 5°F AND 80% AT MINUS 13°F OUTDOOR AMBIENT TEMPERATURES.

SYMBOL	TOTAL COOLING @ 115°F BTUH	TOTAL HEATING @ 12°F BTUH	REF. LBS.	SOUND dBA	VOLTAGE/PHASE	MCA	MOCP	WEIGHT
HP-1,2	18,000	22,000	-	54	208/230/1	29	40	187

① UNIT FOR FAN UNITS FU-1 AND 2.

EF-# EXHAUST FAN: GREENHECK PREMIUM CEILING EXHAUST FAN. PROVIDE WITH DECORATIVE GRILLE, VERTICAL DISCHARGE, BACKDRAFT DAMPER, AND WALL CAP.

SYMBOL	CFM	INCHES S.P.	WATTS	VOLTAGE/PHASE	RPM	MAX. SONES	MODEL
EF-1,2	75	0.25	49	120/1	950	1.6	SP-A110
EF-3	120	0.25	113	120/1	1400	3.2	SP-A190

EWH-# ELECTRIC WALL HEATER: QMARK MODEL GFR FAN-FORCED WALL HEATER WITH BUILT-IN THERMOSTAT.

SYMBOL	WATTS	VOLTAGE/PHASE	AMPS	WEIGHT (LBS)	MODEL
EWH-1,2	375	120/1	3.1	10	GFR1500

EUH-# ELECTRIC UTILITY HEATER: QMARK UTILITY WELL HOUSE HEATER, EPOXY COATED CORROSION PROTECTED ENCLOSURE, INTEGRAL THERMOSTAT, AND FOR 120V OR 240/208V SINGLE PHASE POWER SUPPLY.

SYMBOL	WATTS	VOLTAGE/PHASE	AMPS	MODEL
EUH-1,2	500/375	120/208/240	4.2/1.8/2.1	WHT500

VF-# VENTILATION FAN: GREENHECK BELT DRIVE PROPELLER FAN. PROVIDE WITH WALL COLLAR, BACKDRAFT DAMPER, AND MOTOR SIDE GUARD.

SYMBOL	CFM	INCHES S.P.	HP	VOLTAGE/PHASE	RPM	MODEL
VF-1,2,3	4,800	0.25	1/2	120/1	-	SB-2L24-5

LV-1,2,3 LOUVER: GREENHECK MODEL ESJ-401 HIGH FREE AREA/LOW AIRFLOW RESISTANCE COMBUSTION AIR/OUTSIDE AIR LOUVER COMPLETE WITH BIRDSCREEN. PROVIDE WITH GREENHECK VCD-23 CONTROL DAMPER AND 120V ELECTRIC, SPRING RETURN, POWER OPEN, TWO POSITION INTERNAL ACTUATOR. SIZE AS SHOWN ON DRAWINGS.



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REVISIONS

LIGHTING PLAN

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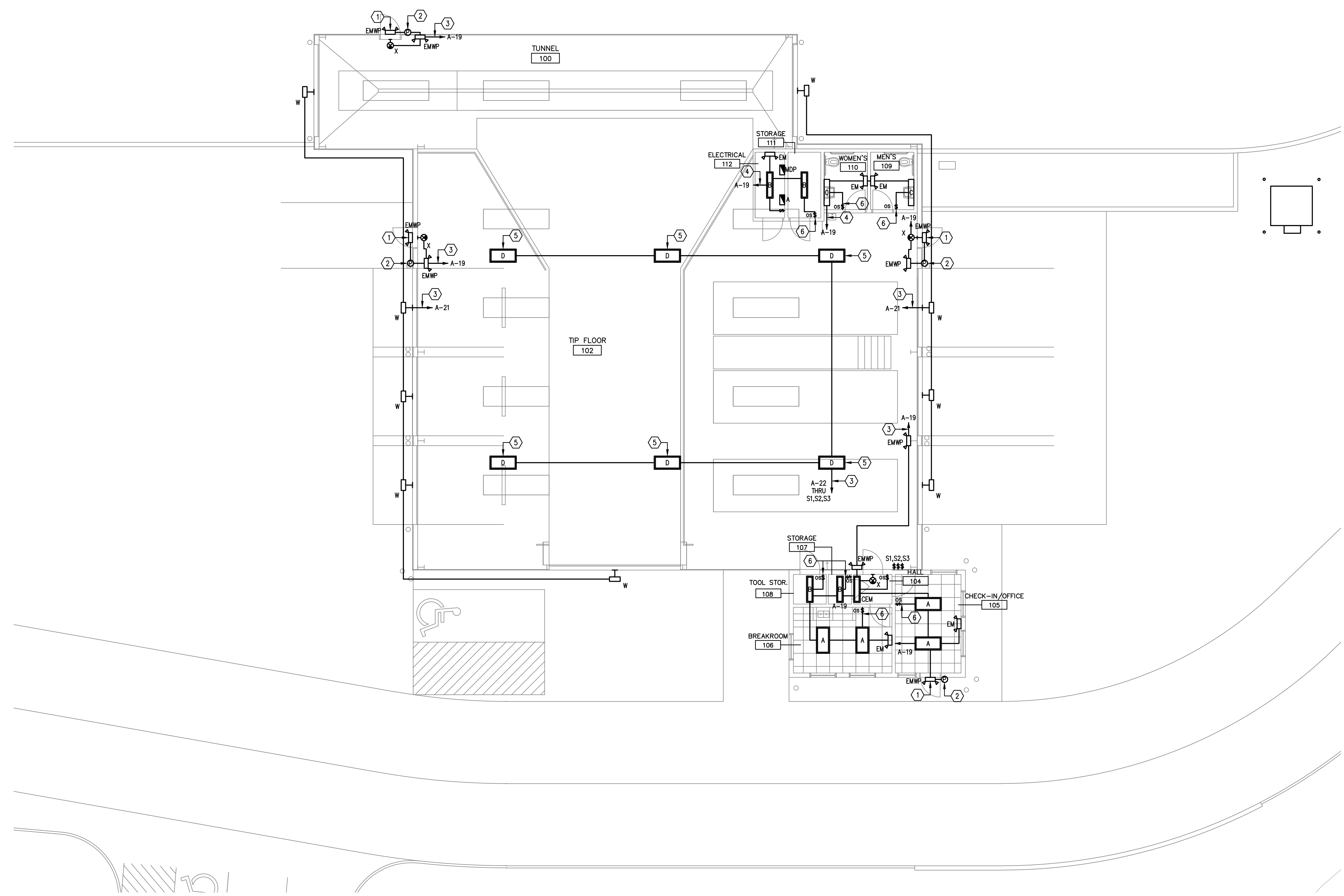
E2.1
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GENERAL NOTES

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- B FOR CONDUIT SIZES SEE SHEETS E1.1, E1.2, E2.1 AND E4.1.
- C FOR GROUNDING CONDUCTOR SIZES SEE SHEETS E1.1, E1.2, E2.1 AND E4.1.
- D FOR METHOD OF GROUNDING SEE SHEET E6.1.
- E FOR LOAD CALCULATIONS SEE SHEETS E4.2.
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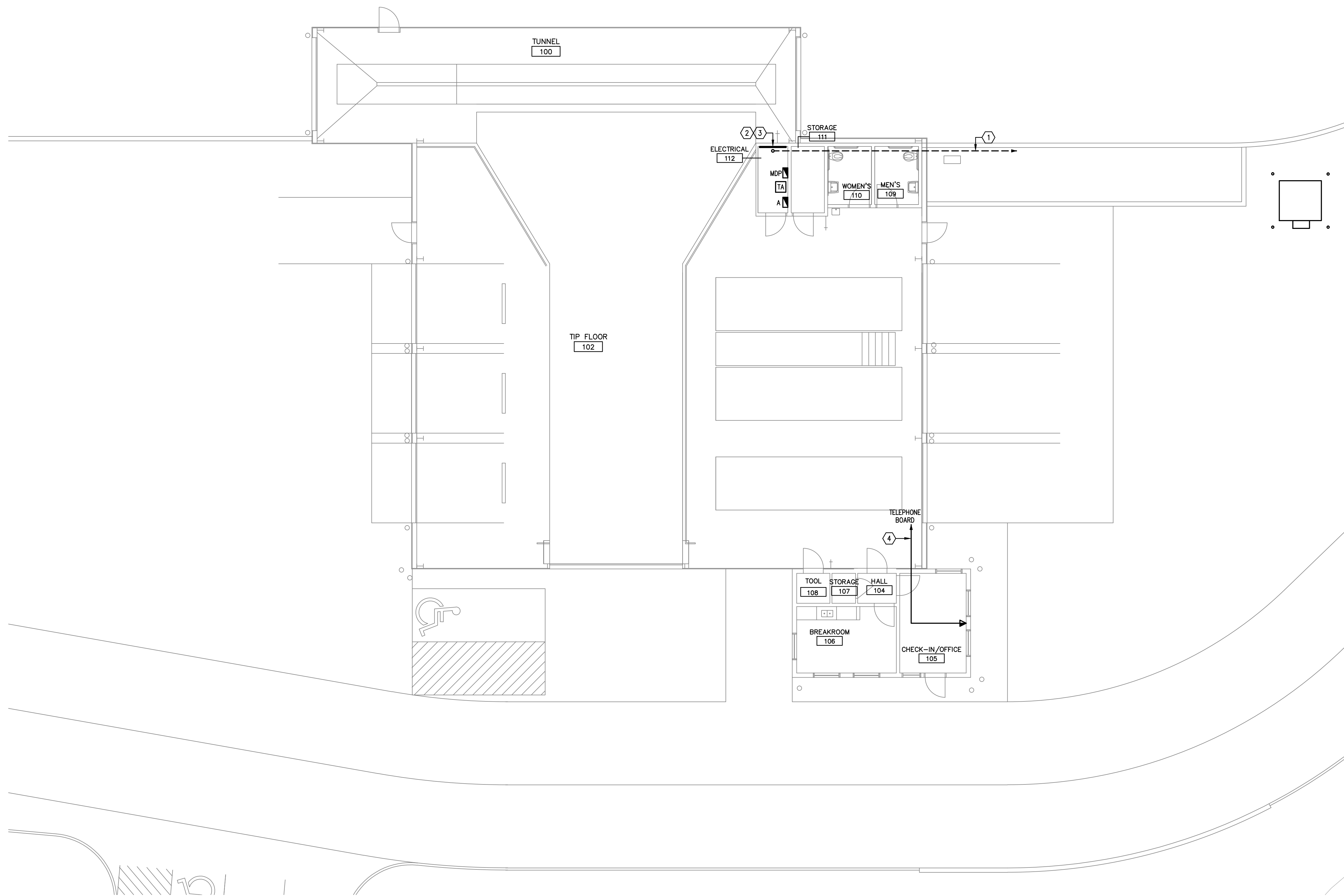
- 1 COMBINATION EMERGENCY LIGHT AND NIGHT LIGHT. CONNECT ALWAYS ON CIRCUIT TO PHOTOCELL. CONNECT EMERGENCY CIRCUIT TO UN-SWITCHED LEG OF LIGHTING CIRCUIT. FOR ADDITIONAL INFORMATION SEE INSTALLATION INSTRUCTIONS.
- 2 PHOTOCELL, 120 VOLT, SINGLE POLE.
- 3 1/2" C, (2) #10, (1) #10 G, THHN/THWN, COPPER.
- 4 1/2" C, (2) #12, (1) #12 G, THHN/THWN, COPPER.
- 5 LIGHT FIXTURE WITH (3) LED DRIVERS, CONNECT FOR 3-LEVEL SWITCHING.
- 6 OCCUPANCY SENSOR, LINE VOLTAGE, SINGLE POLE, WALL MOUNT, DUAL TECHNOLOGY.



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



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- C FOR GROUNDING CONDUCTOR SIZES SEE SHEETS E1.1, E1.2, E2.1 AND E4.1.
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- W INSTALL ELECTRICAL WARNING TAPE 12" ABOVE EACH CONDUIT.

KEYED NOTES

- 1 5" CONDUIT WITH PULL STRING TO PROVIDER POINT OF PRESENCE.
- 2 TELEPHONE BOARD, 4' X 8' X 3/4" PLYWOOD, SANDED, PRIMED AND PAINTED WITH (2) COATS OF WHITE FIRE RESISTANT PAINT.
- 3 COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR TO MAINTAIN WORKING SPACE IN FRONT OF TELEPHONE BOARD AND PROPER WORKING SPACE FOR PANELBOARDS.
- 4 (2) 3/4" CONDUITS WITH (1) CAT 6 CABLE (EACH).

LEGEND

- ▼ TELEPHONE/DATA OUTLET;
 - (1) 4-SQUARE BOX
 - (1) 4-SQUARE TO SINGLE GANG PLASTER RING
 - (2) RJ45 JACK
 - (2) 3/4" C TO TELEPHONE BOARD
 - (2) CAT 6 CABLE TO TELEPHONE BOARD

1 **SPECIAL SYSTEMS PLAN**
SCALE: 1/8" = 1'-0"

JACONA COLLECTION CENTER
 SANTA FE COUNTY
 SANTA FE, NEW MEXICO

REVISIONS

SPECIAL SYSTEMS PLAN



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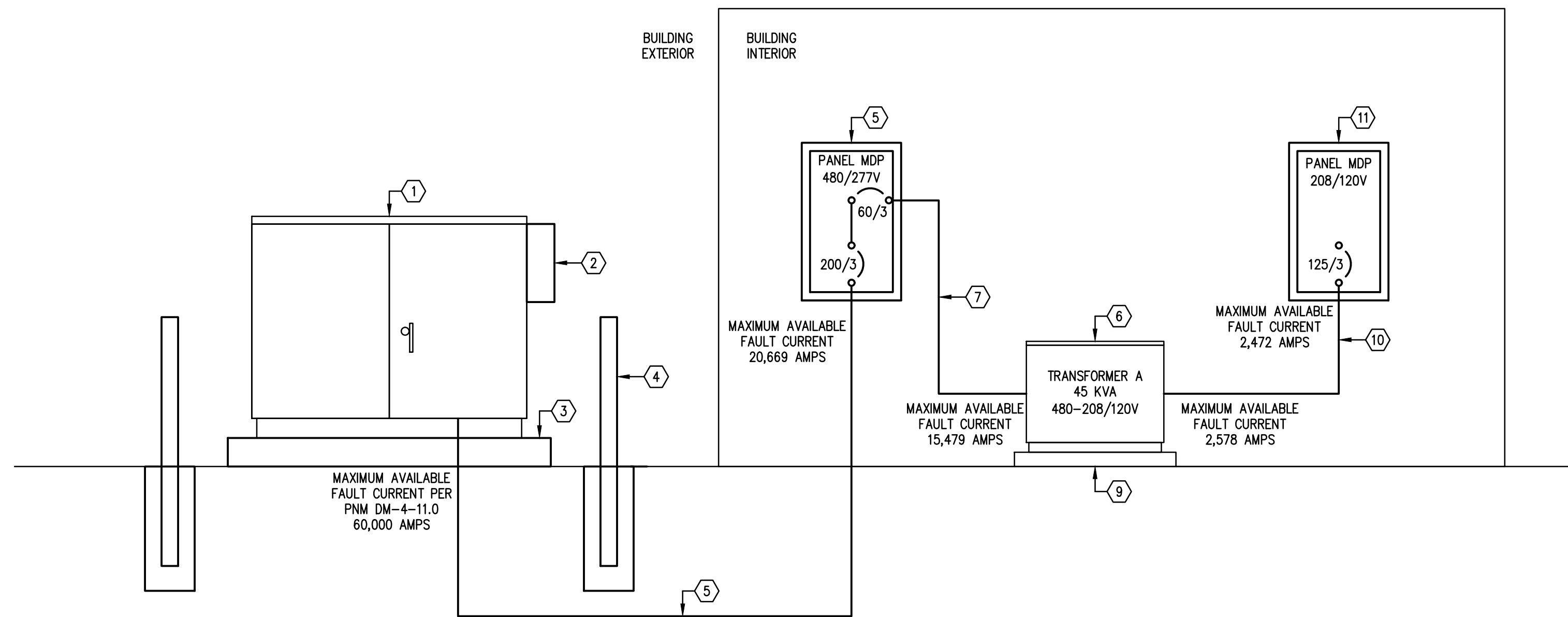
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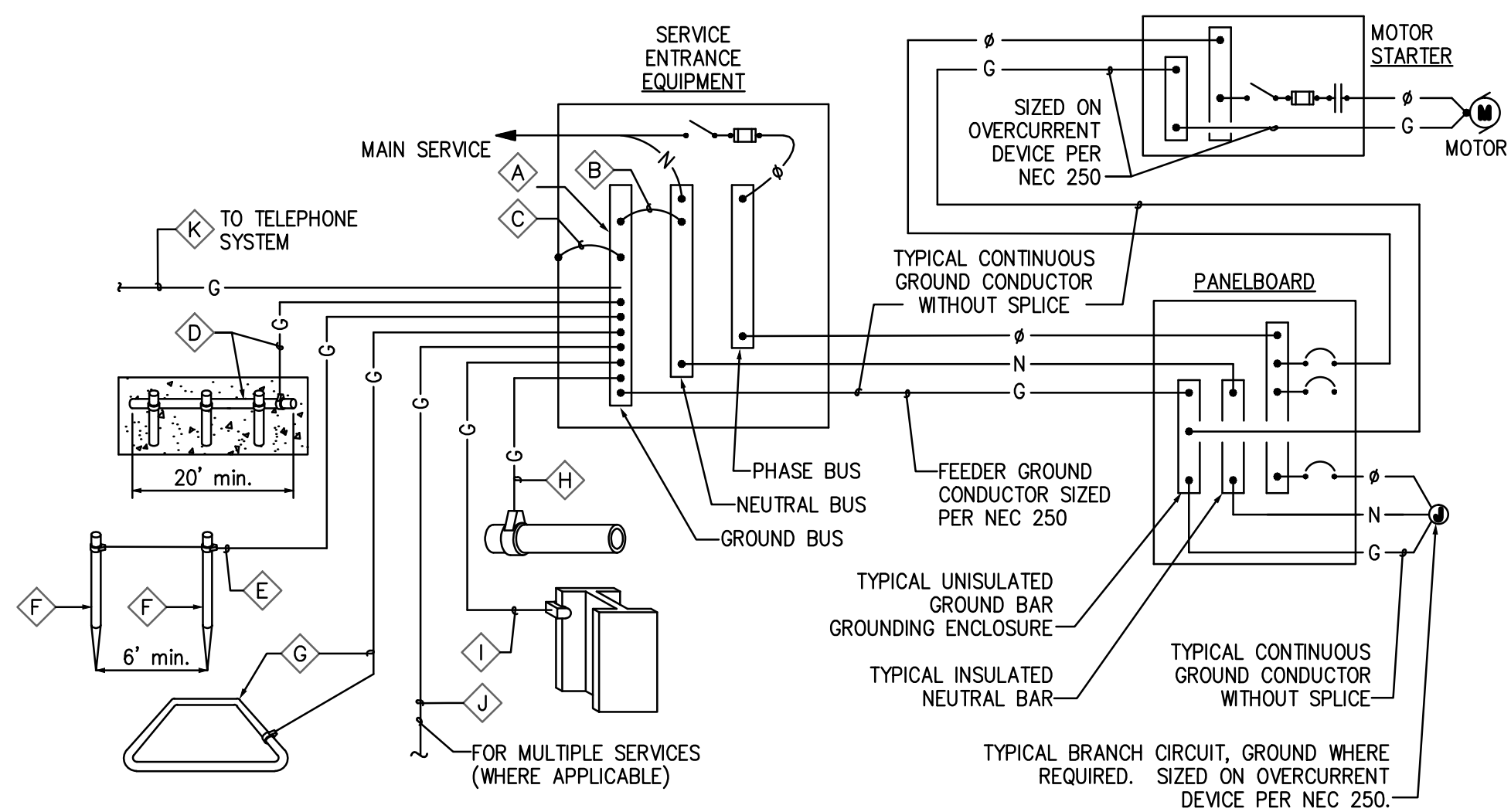
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E3.1

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1 POWER RISER DIAGRAM
SCALE: NTS



GROUNDING SYSTEM DIAGRAM

GROUNDING SYSTEM GENERAL NOTES

- THE GROUNDING ELECTRODE SYSTEM SHALL CONSIST OF ITEMS A, B, C, D, E, F AND G WHERE APPLICABLE.
- ITEMS H, I AND J MUST BE BONDED TOGETHER AND TO THE GROUNDING ELECTRODE SYSTEM WHEN THEY ARE PRESENT.
- ITEM D CONCRETE ENCASED ELECTRODE (UFER) SHALL HAVE UFER SUPPORT CONSISTING OF 5/8" x 10' COPPER GROUND ROD CUT INTO 2' SECTIONS AND DRIVEN FOR SUPPORT OF UFER CONDUCTOR. ONLY COPPER TO COPPER CONNECTIONS ARE ACCEPTABLE. DO NOT USE RE-BAR FOR UFER SUPPORT. (THIS IS TO AVOID THE HARMFUL EFFECTS OF DISSIMILAR METALS IN CONTACT.) A U.L. LISTED COPPER TO RE-BAR CLAMP (SUCH AS GRAVES "JONES BOND" SYSTEM) IS AN APPROVED ALTERNATIVE.
- THIS DETAIL IS PROVIDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, ARTICLE 250, PERTAINING TO THE "GROUNDING ELECTRODE SYSTEM".
- ALL SPLICING SHALL BE ACCOMPLISHED VIA EXOTHERMIC WELD (CAD-WELD) ONLY.
- ALL CONDUCTOR SIZING INDICATED ON THE GROUNDING SCHEDULE ARE FOR COPPER CONDUCTORS. ALUMINUM IS NOT PERMITTED.
- ANY VARIANCES FROM THIS DIAGRAM AND ASSOCIATED SCHEDULE AND NOTES MUST BE REQUESTED AND APPROVED IN WRITING PRIOR TO INSTALLATION.
- ALL INSTALLATIONS SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF N.E.C. ARTICLE 250 (ALL SUBPARAGRAPHS) AND ALL STATE AND LOCAL REQUIREMENTS.
- THE GROUNDING SYSTEM SHALL PROVIDE LESS THAN (4) FOUR OHMS RESISTANCE TO GROUND AT THE SERVICE CONNECTION. THE RESULTS SHALL BE VERIFIED BY AN INDEPENDENT TESTING AGENCY VIA GROUND TEST (FALL-OF-POTENTIAL) AND SUBMITTED TO ELECTRICAL ENGINEER UPON COMPLETION OF PROJECT.

KEYED NOTES

- UTILITY TRANSFORMER, 3-PHASE, PAD-MOUNT, 480/277 VOLT SECONDARY.
- METER ENCLOSURE, 3-PHASE, 13-TERMINAL, CT RATED, PER NM MS-2.7.0.
- TRANSFORMER PAD PER PNM DS-7-16.5.
- GUARD POST PER PNM DS-7-16.10.
- 2-1/2" C, (4) 3/0, THHN/THWN, COPPER.
- PANEL "MDP". FOR ADDITIONAL INFORMATION SEE PANEL SCHEDULE.
- 3/4" C, (3) #6, (1) #6 G, THHN/THWN, COPPER.
- DRY TYPE TRANSFORMER "TRA", 45 KVA, 480-208/120V, 3-PHASE, 4-WRE. WITH 6 TAPS, (2) 2-1/2% ABOVE AND (4) 2-1/2% BELOW.
- CONCRETE HOUSE KEEPING PAD.
- 2" C, (4) #1, (1) #6 G, THHN/THWN, COPPER.
- PANEL A. FOR ADDITIONAL INFORMATION SEE PANEL SCHEDULE.

GENERAL NOTES

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JACONA COLLECTION CENTER
SANTA FE COUNTY
SANTA FE, NEW MEXICO

REVISIONS

GROUNDING SCHEDULE											
	A	B	C	D	E	F	G	H	I	J	K
	FACTORY INSTALLED GROUND BUS BAR	INTEGRATED BUS BAR MAIN BOND JUMPER	INTEGRATED BUS BAR CASE BOND JUMPER	CONCRETE ENCASED ELECTRODE (UFER)	GROUNDING ELECTRODE CONDUCTOR TO ROD, PIPE OR PLATE	CU or CU-GLAD STEEL GROUND ROD	COPPER GROUND RING CONDUCTOR	METALLIC PIPING BONDING CONDUCTOR	BUILDING STEEL BONDING CONDUCTOR	MULTIPLE SERVICE BONDING CONDUCTOR	TELEPHONE SYSTEM GROUNDING CONDUCTOR
CODE REFERENCE											
AMPLIFY	N.E.C. 250.102	N.E.C. 250.102	N.E.C. 250.50(c) 250.66(b)	N.E.C. 250.52(c) 250.52(d) 250.66(a)	N.E.C. 250.50(c) 250.52(c)(2)	N.E.C. 250.50(d) 250.66(c)	N.E.C. 250.50(a) 250.66	N.E.C. 250.50(b) 250.66	N.E.C. 250.50	N.E.C. 250.66	
200 AMP	#4	#4	#4	#6	5/8"x8'	#2	#4	#4	#4	#6	
225 AMP	#2	#2	#4	#6	5/8"x8'	#2	#2	#2	#2	#6	
400 AMP	#1/0	#1/0	#4	#6	5/8"x8'	#1/0	#1/0	#1/0	#1/0	#6	
600 AMP	#2/0	#2/0	#4	#6	5/8"x8'	#2/0	#2/0	#2/0	#2/0	#6	
800 AMP	#3/0	#3/0	#4	#6	5/8"x8'	#2/0	#2/0	#2/0	#2/0	#6	
1000 AMP	#3/0	#3/0	#4	#6	5/8"x8'	#3/0	#3/0	#3/0	#3/0	#6	
1200 AMP	250kcMIL	250kcMIL	#4	#6	5/8"x8'	#3/0	#3/0	#3/0	#3/0	#6	
1600 AMP	350kcMIL	350kcMIL	#4	#6	5/8"x8'	#3/0	#3/0	#3/0	#3/0	#6	
2000 AMP	400kcMIL	400kcMIL	#4	#6	5/8"x8'	#3/0	#3/0	#3/0	#3/0	#6	
2500 AMP	500kcMIL	500kcMIL	#4	#6	5/8"x8'	#3/0	#3/0	#3/0	#3/0	#6	
3000 AMP	500kcMIL	500kcMIL	#4	#6	5/8"x8'	#3/0	#3/0	#3/0	#3/0	#6	

2 GROUNDING DETAILS
SCALE: NTS

POWER RISER DIAGRAM
FAULT CURRENT CALCULATIONS
AND GROUNDING DETAILS



BID SET
9.10.15
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GENERAL NOTES

- A FOR POWER RISER DIAGRAM SEE SHEET E4.1.
- B FOR CONDUCTOR SIZES SEE SHEETS E1.1, E1.2, E2.1 AND E4.1.
- C FOR GROUNDING CONDUCTOR SIZES SEE SHEETS E1.1, E1.2, E2.1 AND E4.1.
- D FOR METHOD OF GROUNDING SEE SHEET E6.1.
- E FOR LOAD CALCULATIONS SEE SHEETS E4.2.
- F FOR FAULT CURRENT CALCULATIONS SEE SHEET E4.1.
- G FOR DISCONNECT SIZES AND LOCATIONS SEE SHEETS E1.1, E1.2 AND E4.1.
- H FOR PANEL SCHEDULE SEE SHEET E4.2.
- I FOR WIRING METHODS SEE SHEET E4.1 AND E6.1.
- J FOR IECC LIGHTING BUDGET CALCULATIONS SEE SHEET E5.1.
- K FOR ELECTRICAL LEGEND SEE SHEET E5.1.
- L FOR ELECTRICAL SPECIFICATIONS SEE SHEET E6.1.
- M CONDUITS ARE 1/2" UNLESS INDICATED OTHERWISE.
- N CONDUCTORS ARE #12 THHN/THWN, COPPER UNLESS INDICATED OTHERWISE.
- P PROVIDE UL LISTED FIRE STOP ASSEMBLY FOR CONDUIT PENETRATIONS THROUGH FIRE RATED CEILINGS, FLOORS, WALLS AND PARTITIONS.
- Q MC CABLE MAY BE USED WHERE ALLOWED BY CODE.
- R FOR LIGHTING FIXTURE SCHEDULE SEE SHEET E4.01.
- S INSTALL BURIED CONDUIT A MINIMUM OF 24 INCHES BELOW GRADE.
- T BACK FILL ELECTRICAL CONDUIT TRENCHES WITH ENGINEERED FILL.
- U PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- V COMPACT ELECTRICAL CONDUIT TRENCHES TO 95%.
- W INSTALL ELECTRICAL WARNING TAPE 12" ABOVE EACH CONDUIT.

PANEL MDP			480/277 VOLT			3-PHASE, 4-WIRE			200 AMPS MAIN CIRCUIT BREAKER				22K AIC MIN		SURFACE MOUNT		BOTTOM FEED NEMA 1		
CKT#	BKR	DESCRIPTION	LTG	K/EQ	REC	HVAC	OTHER	A	B	C	OTHER	HVAC	REC	K/EQ	LTG	DESCRIPTION	BKR	CKT#	
1		OVERHEAD DOOR					480	480			480					OVERHEAD DOOR		2	
3	30/3	TUNNEL					480		480		480					TUNNEL	30/3	4	
5		WEST					480			480						EAST		6	
7		OVERHEAD DOOR					480	480			480					OVERHEAD DOOR		8	
9	30/3	TIP FLOOR					480		480		480					TIP FLOOR	30/3	10	
11		NORTH WEST					480			480						NORHT EAST		12	
13		OVERHEAD DOOR					480	480			480					OVERHEAD DOOR		14	
15	30/3	TIP FLOOR					480		480		480					TIP FLOOR	30/3	16	
17		WEST					480			480						EAST		18	
19		OVERHEAD DOOR					480	480			480					OVERHEAD DOOR		20	
21	30/3	TIP FLOOR					480		480		480					TIP FLOOR	30/3	22	
23		SOUTH WEST					480			480						SOUTH EAST		24	
25		OVERHEAD DOOR					480	480			6228							26	
27	30/3	TIP FLOOR					480		480		6228					COMPACTOR	30/3	28	
29		SOUTH					480			480	6228							30	
31	20/1	SPARE						0								SPARE	20/1	32	
33	20/1	SPARE							0							SPARE	20/1	34	
35	20/1	SPARE								0						SPARE	20/1	36	
37		TRANSFORMER A	715	0	1440	6192	1320	9667								SPARE	20/1	38	
39	60/3	AND	1932	0	2340	2100	0		6372							SPARE	20/1	40	
41		PANEL A	0	0	900	4699	1320			6919						SPARE	20/1	42	
TOTAL			2647	0	4680	12991	9840	20215	16920	17467	24444	0	0	0	0				
PHASE A			715	0	1440	6192	11868	20215			54602			54602	VA				
PHASE B			1932	0	2340	2100	10548		16920		66			66	AMPS				
PHASE C			0	0	900	4699	11868		17467		55264			55264	LD=LOCKING DEVICE				
											114			114	AMPS				

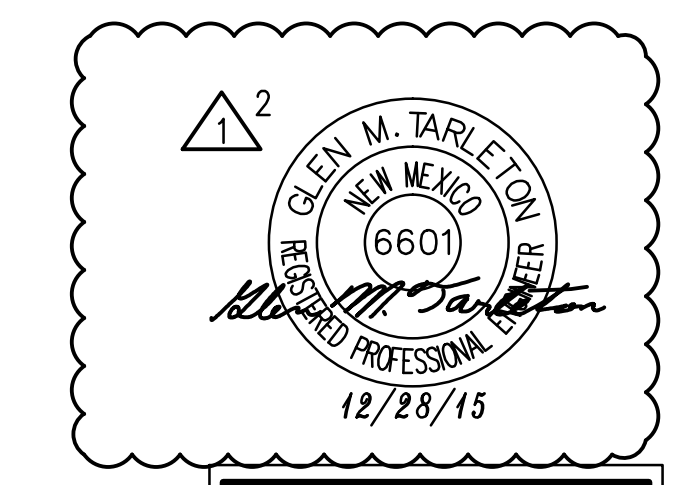
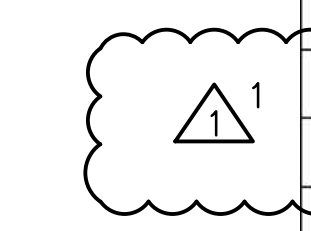
KEYED NOTES

- 1 FIELD VERIFY ELECTRICAL REQUIREMENTS WITH INSTALLER PRIOR TO ORDERING.

REVISIONS

- 1 ADDENDUM #2 ADD WELL 12/28/15

PANEL A			208/120V			3-PHASE, 4-WIRE			125 AMP MAIN CIRCUIT BREAKER				22K AIC		SURFACE MOUNT		TOP FEED NEMA 1		
CKT#	BKR	DESCRIPTION	LTG	K/EQ	REC	HVAC	OTHER	A	B	C	OTHER	HVAC	REC	K/EQ	LTG	DESCRIPTION	BKR	CKT#	
1	20/1	REC WEST			360			360				540				REC EAST	20/1	2	
3	20/1	REC TOOL STORAGE			540				540			900				REC OFFICE	20/1	4	
5	20/1	REC BREAKROOM			540					540		180				REC BREAKROOM COUNTER	20/1	6	
7	20/1	REC BREAKROOM COUNTER			180			180				360				REC RE-USE AREA	20/1	8	
9	20/1	REC RESTROOMS			720				720			180				REC TELEPHONE BOARD	20/1	10	
11	20/1	REC TELEPHONE BOARD			180					180		211				EF-1, EF-2 AND EF-3	20/1	12	
13	20/1	VF-1 AND LV-1				1356		1356				1356				VF-2 AND LV-1	20/1	14	
15	20/1	VF-3 AND LV-3				1356			1356			744				EW-1 AND EW-2	20/1	16	
17	20/1	EUH-1 AND EUH-2				1008				1008		3480				HP-1	60/2	18	
19	20/1	LTG INTERIOR	715					715		3480		3480						20	
21	20/1	LTG EXTERIOR	90						90						1842	LTG HIGH BAY	20/1	22	
23	20/2	WELL					1320			1320						SPARE	20/1	24	
25		PUMP					1320			1320						SPARE	20/1	26	
27	20/1	SPARE							0							SPARE	20/1	28	
29	20/1	SPARE								0						SPARE	20/1	30	
31	20/1	SPARE						0								SPARE	20/1	32	
33	20/1	SPARE							0							SPARE	20/1	34	
35	20/1	SPARE								0						SPARE	20/1	36	
37	20/1	SPARE						0								SPARE	20/1	38	
39	20/1	SPARE							0							SPARE	20/1	40	
41	20/1	SPARE								0						SPARE	20/1	42	
TOTAL			805	0	2520	3720	2640	9667	6372	6919	0	9271	2160	0	1842				
PHASE A			715	0	1440	6192	1320	9667							22958	VA			
PHASE B			1932	0	2340	2100	0		6372						64	AMPS			
PHASE C			0	0	900	4699	1320			6919					23620	LD=LOCKING DEVICE			
															66	AMPS			



Tarleton Engineering Inc.
 910 RIO VISTA CIR. SW
 ALBUQUERQUE, NEW MEXICO 87105
 Tel: (505) 263-6704
 charling@tarenginc.com



Interior Lighting Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **New Construction**
Project Title: JACONA TRANSFER STATION
Construction Site: SANTA FE, NM
Owner/Agent: Designer/Contractor:

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
OFFICE AREA (Office)	712	1	712
HIGH BAY AREA (Warehouse)	4725	0.8	3780
Total Allowed Watts =			4492

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
OFFICE AREA (Office 712 sq.ft.)				
Linear Fluorescent 1: A: 2X4 LAY-IN: 48" T8 32W: Electronic:	2	4	58	232
Linear Fluorescent 2: B: 1X4 LAY-IN: 48" T8 32W: Electronic:	2	4	58	232
Linear Fluorescent 3: C: WALL MOUNT: 48" T8 32W: Electronic:	2	2	58	116
LED 1: X: EXIT: Other:	5	6	3.4	Exempt
Exemption: Exit Signs, Safety or Emergency Lighting				
LED 2: EM: EMERGENCY: Other:	2	2	2.2	Exempt
Exemption: Exit Signs, Safety or Emergency Lighting				
LED 3: EMWP: EMERGENCY COLD AREA: Other:	2	4	2.2	Exempt
Exemption: Exit Signs, Safety or Emergency Lighting				
Linear Fluorescent 4: CEM: WALL MOUNT WITH EM: 48" T8 32W: Electronic:	2	1	58	58
HIGH BAY AREA (Warehouse 4725 sq.ft.)				
LED 4: D: HIGH BAY: Other:	3	6	307	1842
LED 5: EMWP: EMERGENCY: Other:	2	5	2.2	Exempt
Exemption: Exit Signs, Safety or Emergency Lighting				
LED 6: X: EXIT: Other:	5	3	2.2	Exempt
Exemption: Exit Signs, Safety or Emergency Lighting				
Total Proposed Watts =				2480

Section 4: Requirements Checklist

Interior Lighting PASSES. Design 45% better than code.

Lighting Wattage:

- 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
4492	2480	YES

Controls, Switching, and Wiring:

Project Title: JACONA TRANSFER STATION
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Report date: 07/20/15
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- 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.
- 3. Daylight zones have individual lighting controls independent from that of the general area lighting.
Exceptions:
 - Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.
 - Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.
- 4. Independent controls for each space (switch/occupancy sensor).
Exceptions:
 - Areas designated as security or emergency areas that must be continuously illuminated.
 - Lighting in stairways or corridors that are elements of the means of egress.
- 5. Master switch at entry to hotel/motel guest room.
- 6. Individual dwelling units separately metered.
- 7. Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.
- 8. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.
Exceptions:
 - Only one luminaire in space.
 - An occupant-sensing device controls the area.
 - The area is a corridor, storeroom, restroom, public lobby or sleeping unit.
 - Areas that use less than 0.6 Watts/sq.ft.
- 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.
Exceptions:
 - Sleeping units, patient care areas, and spaces where automatic shutoff would endanger safety or security.
- 10. Photocell/astromonical time switch on exterior lights.
Exceptions:
 - Lighting intended for 24 hour use.
- 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).
Exceptions:
 - Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 5: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

CHRIS HARLING
Name - Title
 Signature
9/10/15 Date



Exterior Lighting Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **New Construction**
Project Title: JACONA TRANSFER STATION
Exterior Lighting Zone: **1 (Developed rural area)**
Construction Site: SANTA FE, NM
Owner/Agent: Designer/Contractor:

Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B x C)	F Proposed Watts
MAIN ENTRY (Main entry)	3 ft of door width	20	Yes	60	2
OTHER DOORS (Other door (not main entry))	120 ft of door width	20	Yes	2400	96
Total Tradable Watts* =				2480	99
Total Allowed Watts** =				2480	
Total Allowed Supplemental Watts** =				500	

* Wattage tradeoffs are only allowed between tradable areas/surfaces.
** A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
MAIN ENTRY (Main entry 3 ft of door width): Tradable Wattage				
LED 1: EMWP: EMERGENCY/NIGHT LIGHT: Other:	2	1	2.2	2.2
OTHER DOORS (Other door (not main entry) 120 ft of door width): Tradable Wattage				
LED 2: EMWP: EMERGENCY/NIGHT LIGHT: Other:	2	3	2.2	6.6
LED 3: W: WALL MOUNT: Other:	1	9	10	90
Total Tradable Proposed Watts =				99

Section 4: Requirements Checklist

Lighting Wattage:

- 1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.

Compliance: Passes.

Controls, Switching, and Wiring:

- 2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.
- 3. Lighting not designated for dusk-to-dawn operation is controlled by either a photosensor (with time switch), or an astronomical time switch.
- 4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.
- 5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

Project Title: JACONA TRANSFER STATION
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Section 5: Compliance Statement

- 6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 80 lumen/watt.

Exceptions:

- Lighting that has been claimed as exempt and is identified as such in Section 3 table above.
- Lighting that is specifically designated as required by a health or life safety statute, ordinance, or regulation.
- Emergency lighting that is automatically off during normal building operation.
- Lighting that is controlled by motion sensor.

Section 5: Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

CHRIS HARLING
Name - Title
 Signature
9/10/15 Date


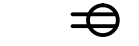

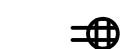





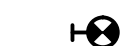

GENERAL NOTES

- A FOR POWER RISER DIAGRAM SEE SHEET E4.1.
- B FOR CONDUCTOR SIZES SEE SHEETS E1.1, E1.2, E2.1 AND E4.1.
- C FOR GROUNDING CONDUCTOR SIZES SEE SHEETS E1.1, E1.2, E2.1 AND E4.1.
- D FOR METHOD OF GROUNDING SEE SHEET E6.1.
- E FOR LOAD CALCULATIONS SEE SHEETS E4.2.
- F FOR FAULT CURRENT CALCULATIONS SEE SHEET E4.1.
- G FOR DISCONNECT SIZES AND LOCATIONS SEE SHEETS E1.1, E1.2 AND E4.1.
- H FOR PANEL SCHEDULE SEE SHEET E4.2.
- I FOR WIRING METHODS SEE SHEET E4.1 AND E6.1.
- J FOR IECC LIGHTING BUDGET CALCULATIONS SEE SHEET E5.1.
- K FOR ELECTRICAL LEGEND SEE SHEET E5.1.
- L FOR ELECTRICAL SPECIFICATIONS SEE SHEET E6.1.
- M CONDUITS ARE 1/2" UNLESS INDICATED OTHERWISE.
- N CONDUCTORS ARE #12 THHN/THWN, COPPER UNLESS INDICATED OTHERWISE.
- P PROVIDE UL LISTED FIRE STOP ASSEMBLY FOR CONDUIT PENETRATIONS THROUGH FIRE RATED CEILINGS, FLOORS, WALLS AND PARTITIONS.
- Q MC CABLE MAY BE USED WHERE ALLOWED BY CODE.
- R FOR LIGHTING FIXTURE SCHEDULE SEE SHEET E401.
- S INSTALL BURIED CONDUIT A MINIMUM OF 24 INCHES BELOW GRADE.
- T BACK FILL ELECTRICAL CONDUIT TRENCHES WITH ENGINEERED FILL.
- U PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- V COMPACT ELECTRICAL CONDUIT TRENCHES TO 95%.
- W INSTALL ELECTRICAL WARNING TAPE 12" ABOVE EACH CONDUIT.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMPS		FIXTURE VOLTAGE	INPUT WATTS
				NUMBER	TYPE		
A	METALUX	2AC-232-UNV-EB81-U	2X4 LAY-IN	2	32 WATT T8	120	58
B	METALUX	AC-232-UNV-EB81-U-DF-14-W	1X4 LAY-IN WITH DRYWALL FRAME KIT	1	32 WATT T8	120	58
C	METALUX	BAU-232A-UNV-EB81-U	WALL BRACKER	1	32 WATT T8	120	58
CEM	METALUX	BAU-232A-UNV-EB81-U-EL	WALL BRACKER WITH 90 MINUTE BATTERY BACK-UP	1	32 WATT T8	120	58
D	METALUX	HBLED-LD4-36-W-WG-UNV-L840-ED3-U-HBAYC-CHAIN/SET/U	HIGH BAY WITH WIRE GUARD	3	300 WATT LED DRIVERS	120	307
W	LUMARK	XTOR1A-PC1	EXTERIOR WALL MOUNT WITH 120 VOLT PHOTOCONTROL	1	10 WATT LED	120	10
X	SURE-LITES	UX7-0-00-R-BK	EXIT SIGN COLD WET LOCATION WITH 90 MINUTE BATTERY BACK-UP	10	.34 WATT LED	120	3.4
EM	SURE-LITES	AEL2-46-BK-SD	EMERGENCY WITH 90 MINUTE BATTERY BACK-UP	2	1.1 WATT LED	120	2.2
EMWP	SURE-LITES	AEL2-46-BK-SD	EMERGENCY WET AND COLD LOCATON WITH 90 MINUTE BATTERY BACK-UP	2	1.1 WATT LED	120	2.2

LEGEND

SYMBOLS	DESCRIPTION
	208/120V 3-PHASE 4-WIRE PANELBOARD.
	DUPLEX RECEPTACLE, WALL MOUNTED. AC=ABOVE COUNTER GFI=GROUND FAULT INTERRUPTER WP=WEATHERPROOF
	DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED.
	SWITCH SINGLE POLE 3 = 3-WAY 4 = 4-WAY os = OCCUPANCY SENSOR WALL MOUNT DUAL TECHNOLOGY
	FLUORESCENT FIXTURE, RECESSED CEILING MOUNT. LETTER INDICATES TYPE (SEE FIXTURE SCHEDULE).
	EMERGENCY LIGHT MOUNT. LETTER INDICATES TYPE (SEE FIXTURE SCHEDULE).
	EXIT LIGHT FIXTURE AND/OR COMBINATION FIXTURE
	DISCONNECT SWITCH (SEE SCHEDULE FOR DESCRIPTION).
	JUNCTION BOX.
	CONDUIT TO PANELBOARD WITH CIRCUIT NUMBER.
	DATA OUTLET; (1) 4-SQUARE BOX (1) 4-SQUARE TO SINGLE GANG PLASTER RING (1) RJ45 JACK (1) 3/4" C TO ABOVE CEILING (1) CAT 6 CABLE TO SERVER ROOM

JACONA COLLECTION CENTER
SANTA FE COUNTY
SANTA FE, NEW MEXICO

REVISIONS

IECC LIGHTING CALCULATIONS
LIGHTING FIXTURE SCHEDULE
AND ELECTRICAL LEGEND



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SECTION 16005

ELECTRICAL WORK

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Service Entrance Equipment
- B. Conduit
- C. Wire and Cable
- D. Boxes
- E. Wiring Devices
- F. Enclosures
- G. Grounding and Bonding
- H. Disconnect Switches
- I. Panelboards
- J. Motor Control Equipment
- K. Light Fixtures

1.2 REFERENCES

- A. General
 - 1. ANSI/NFPA 70 - National Electrical Code.
 - 2. ANSI C2 - National Electrical Safety Code.
 - 3. Underwriters Laboratories, Inc. (UL)
- B. Service Entrance Equipment
 - 1. Public Service Company of New Mexico

1.3 SUBMITTALS

- A. Provide technical data for the following items. Data shall substantiate compliance with the requirements of the Specifications and Drawings and shall include, but not be limited to, ratings, material type, construction, listings and/or certifications, and color. Catalog data or "cut-sheets" which contain information on several products/items should be marked to clearly indicate the specific product or material proposed for this project.
 - 1. Service entrance equipment.
 - 2. Disconnect switches including fuses.
 - 3. Panelboards.
 - 3. Light fixtures including ballasts and lamps.

1.4 REGULATORY REQUIREMENTS

- A. Conform to applicable Building Code for the City of Santa Fe.
- B. Conform to ANSI/NFPA 70.
- C. Obtain permits and request inspections from authority having jurisdiction.
- D. Conform to applicable UL requirements for each product indicated.

PART 2 - PRODUCTS

2.1 SERVICE ENTRANCE EQUIPMENT

- A. Secondary Metering Enclosure
 - 1. Description: In accordance with electric metering requirements of the Public Service Company of New Mexico.
 - 2. Listing: UL listed.
- B. Service Disconnect Switch and Overcurrent Protection
 - 1. Description: As noted on Drawings.
 - 2. Listing: UL listed Service Entrance Equipment.

2.2 WIRE AND CABLE

- A. Building Wire and Cable
 - 1. Description: Single conductor insulated wire.
 - 2. Conductor: Copper.
 - 3. Insulation:
 - a. Voltage Rating: 600 volt.
 - b. Type: NEMA WC 5, Type THHN/THWN.
 - c. Color:
 - (1) #10 AWG and Smaller: Solid color compound throughout conductor length.
 - (2) #8 AWG and Larger: 3M Scotch "35 Vinyl Plastic" electrical color coding tape, 3/4" wide, extended a minimum of 2 inches along conductor insulation.
 - d. Size:
 - (1) Power and Lighting Circuits: #12 AWG, minimum.
 - (2) Control: #14 AWG, minimum, unless otherwise noted.
 - e. Listing: UL listed..

2.4 BOXES

- A. Sheet Metal Boxes: ANSI/NEMA OS 1, galvanized steel; rated for weight of equipment supported; include 1/2 inch male fixture studs where required; grounding terminal.
- B. Cast Boxes: ANSI/NEMA FB 1, Type "FD" cast fer alloy, threaded hubs, grounding terminal, gasketed cover.

2.5 WIRING DEVICES

- A. Wall Switches
 - 1. Type: NEMA WD 1, FS W-S-896E, specification grade toggle switch; ivory handle.
 - 2. Rating: 20 Amperes at 120-277 Volts AC.
- B. Receptacles
 - 1. Type: NEMA WD 1, FS W-C-596, specification grade self-grounding receptacle with grounding terminal on body; ivory face.
 - 2. Configuration: NEMA WD 6, Type 5-20R.
- C. Device Cover Plates
 - 1. Dry Interior Locations: Type 302 specification grade smooth stainless steel, jumbo size.
 - 2. Exterior or Wet Interior Locations: Gasketed cast metal with hinged gasketed device cover.

2.6 ENCLOSURES

- A. NEMA Type 1 Hinged Cover Enclosure
 - 1. Construction: NEMA 250, Type 1, steel, minimum 16 gauge.
 - 2. Finish: Polyester powder coating over phosphatized surface.
 - 3. Cover: Door with continuous steel hinge, held closed by flush latch operable with screwdriver.

2.7 GROUNDING AND BONDING

- A. Rod Electrode (Ground Rod)
 - 1. Material: Copper.
 - 2. Diameter: 3/4 inch.
 - 3. Length: 10 feet.
- B. Raceway Conductor
 - 1. Description:
 - a. #10 AWG and Smaller: Single conductor insulated wire.
 - b. #8 AWG and Larger: Single conductor bare wire; stranded.
 - 2. Conductor: Copper.
 - 3. #10 AWG and Smaller Conductor Insulation:
 - a. Voltage Rating: 600 volt.
 - b. Type: NEMA WC 5, Type THHN/THWN.
 - c. Color: Green solid color compound throughout conductor length.
 - d. Listing: UL listed.

2.8 DISCONNECT SWITCHES

- A. Switch Assemblies: NEMA KS 1, Type HD, FS W-S-865, heavy duty, quick-make, quick-break, load interrupter enclosed knife switch with externally operable handle interlocked to prevent opening front cover with switch in ON position. Handle lockable in OFF position.
- B. Fuse clips: FS W-F-870. Designed to accommodate Class R fuses.
- C. Fuses: ANSI/UL 198E, Class RK1, dual-element, current limiting, time delay.
- D. Enclosures: NEMA KS 1, Type 1 for dry interior locations; Type 3R for exterior or wet interior locations. Provide with factory or field installed equipment grounding kit.
- E. Listing: UL listed.

2.9 PANELBOARDS

- A. Type: NEMA PB 1, circuit breaker type. FS W-P-115, Type I, Class 1.
- B. Enclosure: NEMA PB 1, Type 1 for dry interior locations, Type 3R for exterior or wet interior locations, unless otherwise noted.
- C. Bus: Copper.
- D. Circuit Breakers: NEMA AB 1, FS W-C-375, molded case, thermal magnetic trip, bolt-on type, full-size, common internal trip for multi-pole breakers, SWD rated for lighting circuits, HID rated for 120/208 volt HID lighting circuits. Tandem breakers are not acceptable.

2.10 MOTOR CONTROL EQUIPMENT

- A. Fractional Horsepower Manual Motor Starter: NEMA ICS 2, AC general purpose Class A manually operated, 2 pole, full-voltage controller for fractional horsepower induction motors, with thermal overload unit, red pilot light, and toggle operator with lock-off provisions. Enclosure: NEMA ICS 6, Type 1 for dry interior locations, Type 4 for exterior or wet interior locations.
- B. Fractional Horsepower Manual Motor Starting Switch: Same as Fractional Horsepower Manual Motor Starter without thermal overload unit.

2.11 LIGHT FIXTURES

- A. Light Fixtures: As scheduled on Drawings.
- B. Ballasts:
 - 1. Fluorescent: ANSI C82.1, UL listed, CBM certified, Class P, electronic.

PART 3 - EXECUTION

3.1 GENERAL

- A. Perform Work in accordance with ANSI/NFPA 70.
- B. Install equipment and products in accordance with manufacturers instructions.

3.2 SERVICE ENTRANCE EQUIPMENT

- A. Install meter enclosure in accordance with electric metering requirements of the Public Service Company of New Mexico.

3.3 CONDUIT

- A. Schedule
 - 1. Above Grade Conduit Installations:
 - a. Dry Interior Locations:
 - (1) Size: 1/2 inch minimum.
 - (2) Type:
 - (a) 1/2 inch through 2 inch: Electrical metallic tubing (EMT).
 - (b) Larger than 2 inch: Metal conduit (RGS).
 - (3) Exterior or Wet Interior Locations:

(a) Size: 1/2 inch minimum.

- (b) Type: Metal conduit (RGS).
- 2. Flexible Metal Conduit: Use for connection to recessed and pendant mounted light fixtures. Restrict maximum length to 72 inches.
- 3. Liquidtight Flexible Metal Conduit: Use for connection to dry-type transformers, mechanical equipment, instruments, and devices which produce vibration. Restrict maximum length to 24 inches.
- B. Installation
 - 1. General
 - a. Install conduit in accordance with NECA "Standard of Installation."
 - b. Install no more than the equivalent of four 90 degree bends between conduit terminations for 1/2 inch through 1 inch conduit size, three bends for 1-1/4 inch through 2 inch conduit, and two bends for conduit 2-1/2 inch and larger. Provide pull boxes, if necessary to meet these requirements.
 - c. Maintain minimum 6 inch clearance between conduit and piping.
 - d. Maintain minimum 12 inch clearance between conduit and surfaces with temperature exceeding 104 degrees F (40 degrees C).
 - e. Support conduit at a maximum of 4 feet on center and within one foot of elbow, bend, change of direction, and box.
 - f. Use grounding bushings on metallic conduit terminations.
 - g. Use conduit hubs to fasten metal conduit (RGS) to sheet metal enclosures.
 - h. Install fittings to accommodate expansion where conduit crosses building control and expansion joints.
 - i. Use suitable conduit caps to protect installed conduit against entrance of dirt and moisture.
 - j. Provide pull string in each empty conduit.
 - 2. Above Grade Conduit
 - a. Route conduit parallel and perpendicular to walls.
 - b. Route conduit to maintain headroom and present neat appearance.
 - c. Route conduit through roof using flashing and sealants.

3.4 BRANCH CIRCUIT CONDUIT

- A. Run wiring for receptacle and lighting circuits in conduit sized in accordance with the National Electrical Code, unless otherwise indicated.

3.5 WIRE AND CABLE

- A. Run wiring in raceways, unless otherwise indicated on Drawings.
- B. Pull all conductors into raceway at same time.
- C. Use suitable wiring pulling lubricant for building wire #4 AWG and larger.
- D. Install pull string in empty conduits.
- E. Communication Cables:
 - 1. Route cable in conduit as shown on the Drawings.
 - 2. Cable shall be continuous from outlet jack to connecting blocks in closet.
 - 3. No splicing shall be permitted.
 - 4. Terminate cable at outlet jacks and connecting blocks.

3.6 BRANCH CIRCUIT WIRING

- A. Provide number of phase and neutral conductors required to implement circuiting shown on Drawings, unless otherwise noted.
- B. Size neutral conductor same size as phase conductors, unless otherwise noted.
- C. Provide a separate equipment ground conductor in each raceway. Size equipment ground conductor same size as phase conductors, unless otherwise noted.
- D. Place an equal number of conductors for each phase of a circuit in same raceway.
- E. Two or three branch circuits of different phases may not share a common neutral, except as otherwise indicated.
- F. Use #12 AWG conductor for 20 Amp branch circuits which have not been identified on the Drawings.

3.7 BOXES

- A. Schedule:
 - 1. Interior Dry Locations: Sheet Metal Boxes.
 - 2. Exterior of Wet Interior Locations: Cast Boxes.

3.8 WIRING DEVICES

- A. Install wall switches 4'-0" inches above finished floor to bottom of box, "OFF" position down, unless otherwise noted.
- B. Install receptacles 1'-6" inches above finished floor to bottom of box, grounding pole on top, unless otherwise noted.
- C. Install telephone/data outlets in accordance with manufacturer's instructions. Install telephone jack at the bottom of outlet and data jack at the top of outlet.

3.9 GROUNDING AND BONDING

- A. Provide separate insulated ground conductor in each raceway. Bond each end of conductor to conduit grounding bushing and extend to box or equipment grounding lug or bus.
- B. Use grounding bushings on metallic conduit terminations.

3.10 DISCONNECT SWITCHES

- A. Install 5'-0" above finished floor to centerline of disconnect handles in the "ON" position, unless otherwise noted.

3.11 PANELBOARDS

- A. Install in accordance with NEMA PB 1.1 and manufacturer's instructions.
- B. Install 6'-6" above finished floor to top of panelboard.
- C. Provide typed circuit directory.

3.12 MOTOR CONTROL EQUIPMENT

- A. Magnetic Motor Starters: Install 5'-0" above finished floor to centerline of enclosure.

END OF SECTION 16005

GENERAL NOTES

- A. FOR POWER RISER DIAGRAM SEE SHEET E4.1.
- B. FOR CONDUCTOR SIZES SEE SHEETS E1.1, E1.2, E2.1 AND E4.1.
- C. FOR GROUNDING CONDUCTOR SIZES SEE SHEETS E1.1, E1.2, E2.1 AND E4.1.
- D. FOR METHOD OF GROUNDING SEE SHEET E6.1.
- E. FOR LOAD CALCULATIONS SEE SHEETS E4.2.
- F. FOR FAULT CURRENT CALCULATIONS SEE SHEET E4.1.
- G. FOR DISCONNECT SIZES AND LOCATIONS SEE SHEETS E1.1, E1.2 AND E4.1.
- H. FOR PANEL SCHEDULE SEE SHEET E4.2.
- I. FOR WRING METHODS SEE SHEET E4.1 AND E6.1.
- J. FOR IECC LIGHTING BUDGET CALCULATIONS SEE SHEET E5.1.
- K. FOR ELECTRICAL LEGEND SEE SHEET E5.1.
- L. FOR ELECTRICAL SPECIFICATIONS SEE SHEET E6.1.
- M. CONDUITS ARE 1/2" UNLESS INDICATED OTHERWISE.
- N. CONDUCTORS ARE #12 THHN/THWN, COPPER UNLESS INDICATED OTHERWISE.
- P. PROVIDE UL LISTED FIRE STOP ASSEMBLY FOR CONDUIT PENETRATIONS THROUGH FIRE RATED CEILINGS, FLOORS, WALLS AND PARTITIONS.
- Q. MC CABLE MAY BE USED WHERE ALLOWED BY CODE.
- R. FOR LIGHTING FIXTURE SCHEDULE SEE SHEET E401.
- S. INSTALL BURIED CONDUIT A MINIMUM OF 24 INCHES BELOW GRADE.
- T. BACK FILL ELECTRICAL CONDUIT TRENCHES WITH ENGINEERED FILL.
- U. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- V. COMPACT ELECTRICAL CONDUIT TRENCHES TO 95%.
- W. INSTALL ELECTRICAL WARNING TAPE 12" ABOVE EACH CONDUIT.

REVISIONS

ELECTRICAL SPECIFICATIONS

BID SET

9.10.15

E7.1

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