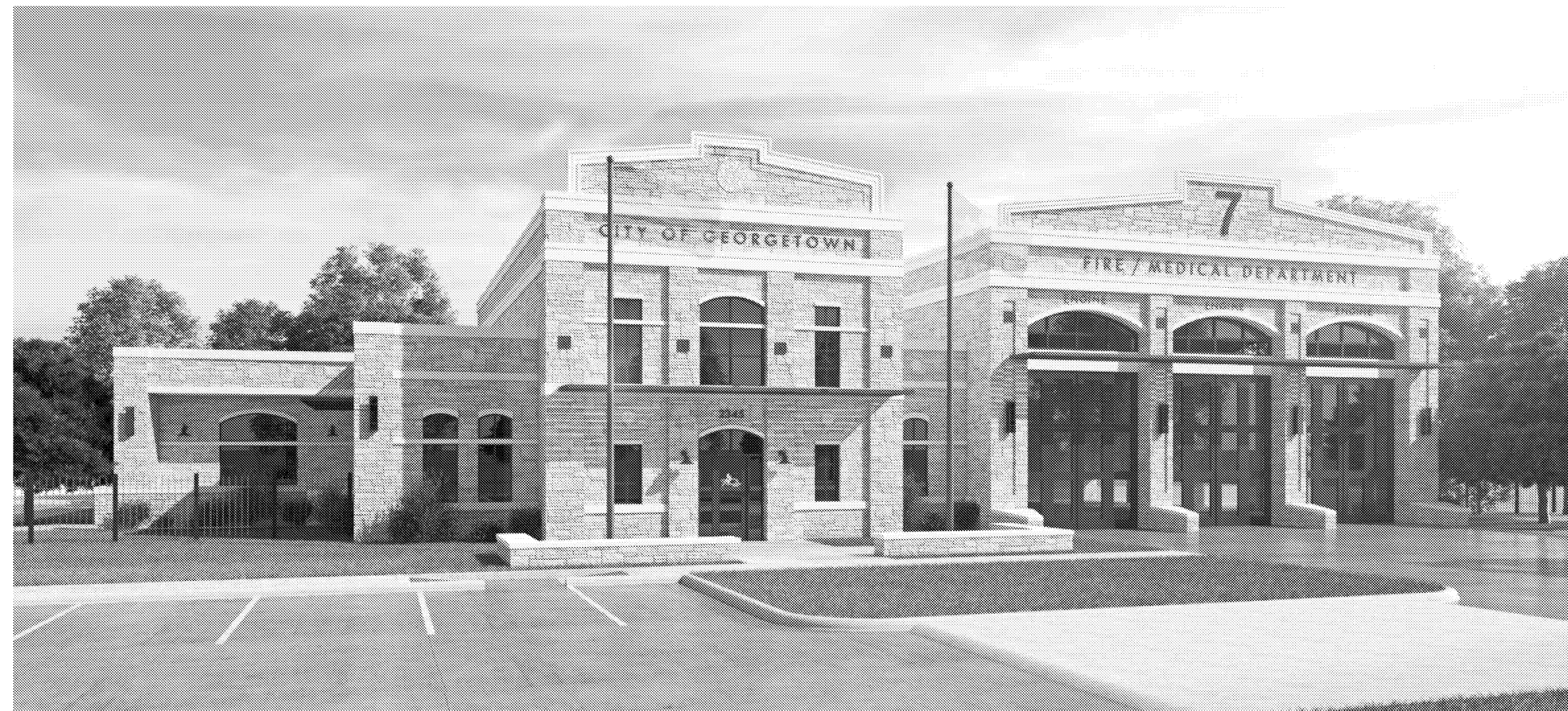




CITY OF GEORGETOWN FIRE STATION No. 7

2711 EAST UNIVERSITY AVENUE
GEORGETOWN, TX 78626

BRW PROJECT NO.: 218044.00
11/16/2018



OWNER

CITY OF GEORGETOWN

3500 D B WOOD RD.
GEORGETOWN, TX 78628
(512) 930-3621

ARCHITECT / LANDSCAPE ARCHITECT

BROWN REYNOLDS WATFORD ARCHITECTS, INC.

CENTURY SQUARE BUILDING B
175 CENTURY SQUARE DRIVE
SUITE 350
COLLEGE STATION, TX 77840
(979) 694-1791

MECHANICAL / ELECTRICAL / PLUMBING ENGINEER

DAWSON VAN ORDEN, INC.

1250 WOOD BRANCH PARK DRIVE, SUITE 210
HOUSTON, TEXAS 77079
(281) 293-7500

STRUCTURAL ENGINEER

GESSNER ENGINEERING

2501 ASHFORD DR.
COLLEGE STATION, TX 7840
(979) 680-8840

CIVIL ENGINEER

STRAND ASSOCIATES, INC.

203 S JACKSON ST.
BRENHAM, TX 77833
(979) 836-7937

SYMBOL LEGEND

	NORTH ARROWS		EXTERIOR ELEVATION
	ARTIFICIAL PROPERTY LINE / LIMITS OF CONSTRUCTION		INTERIOR ELEVATION
	BUILDING SETBACK LINE/EASEMENT		KEYNOTE
	EXISTING CONTOURS		WALL TYPE
	REVISED CONTOURS		DOOR NUMBER
	EXISTING SPOT GRADE		WINDOW TYPE
	REVISED SPOT GRADE		REVISIONS
	WORKING POINT, CONTROL OR DATUM POINT		ROOM NAME DESIGNATION & NUMBER
	COLUMN DESIGNATION		CEILING FINISH
	DETAIL BUBBLE		WALL FINISH
	BUILDING SECTION		FLOOR FINISH
	WALL SECTION		NEW CONSTRUCTION
	FACE OF FINISH DIMENSIONING		NEW FIRE RATED CONSTRUCTION
	MATCH LINE		EXISTING WALL TO REMAIN
	TITLE SCALE		ALIGN
	VIEW TITLE		TEMPERED GLASS
			REFERENCES:
			SHEET NUMBER
			DETAIL NUMBER
			SHEET NUMBERING:
			SHEET NUMBER
			SHEET TYPE DESIGNATOR
			DISCIPLINE DESIGNATOR

ARCHITECTURAL ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	MNTD.	MOUNTED
B.O.	BOTTOM OF	NOM.	NOMINAL
C.J.	CONTROL JOINT	N.I.C.	NOT IN CONTRACT
CLR	CLEAR	O.C.(E/W)	ON CENTER (EACH WAY)
DIA.	DIAMETER	O.H.	OPPOSITE HAND
DN	DOWN	RE	REFERENCE
E.J.	EXPANSION JOINT	REQ./REQD	REQUIRED
E.O.	EQUAL	R.O.	ROUGH OPENING
F.F.	FINISH FLOOR	SIM.	SIMILAR
F.V.	FIELD VERIFY	T.O.	TOP OF
GA.	GAUGE	TYP.	TYPICAL
M.O.	MASONRY OPENING	W	WITH
MAX.	MAXIMUM	WB.	WIND BRACE
MIN.	MINIMUM	WP.	WORKING POINT

CODE INFORMATION

BUILDING: 2015 INTERNATIONAL BUILDING CODE
MECHANICAL: 2015 INTERNATIONAL MECHANICAL CODE
PLUMBING: 2015 INTERNATIONAL PLUMBING CODE
ELECTRICAL: 2017 NATIONAL ELECTRIC CODE
FIRE: 2015 INTERNATIONAL FIRE CODE
LIFE SAFETY: 2015 INTERNATIONAL BUILDING CODE
ACCESSIBILITY: TEXAS ARCHITECTURAL BARRIER STANDARDS
ENERGY: 2015 INTERNATIONAL ENERGY CONSERVATION CODE

NUMBER OF FLOORS: 2
ALLOWED NUMBER OF FLOORS: 3
CONSTRUCTION TYPE: TYPE V-B
OCCUPANCY CLASSIFICATION: B, S-1
SPRINKLERED: NFPA 13 - FULLY SPRINKLERED

FAR: N/A
SITE COVERAGE: 1.806 ACRES (RE: CIVIL)

BUILDING AREA (FIRST STORY): 11,107 SF
BUILDING AREA (SECOND STORY): 2,468 SF
TOTAL BUILDING AREA: 13,575 SF
ALLOWED BUILDING AREA (PER STORY): 18,000 SF

BUILDING HEIGHT: 34' - 11"
ALLOWED BUILDING HEIGHT: 60' - 0"

MINIMUM FIRE FLOW RATE PER 2012 IFC, APPENDIX B:
3,250 - (3,250 x 0.75) = 813 GPM, MIN. 1,500 GPM, 3 HOUR DURATION

NOTE: AREA TABULATION IS FOR CITY USE ONLY. CONTRACTOR SHALL COMPLETE HIS/HER OWN TAKE-OFFS AND CALCULATIONS.

TYPICAL INSULATION VALUES

TYPICAL WALL INSULATION:	R-20
TYPICAL ROOF INSULATION:	R-20
TYPICAL WINDOW GLAZING:	
U-FACTOR:	0.50
SHGC:	0.25
VISIBLE TRANSMITTANCE:	0.35 MIN

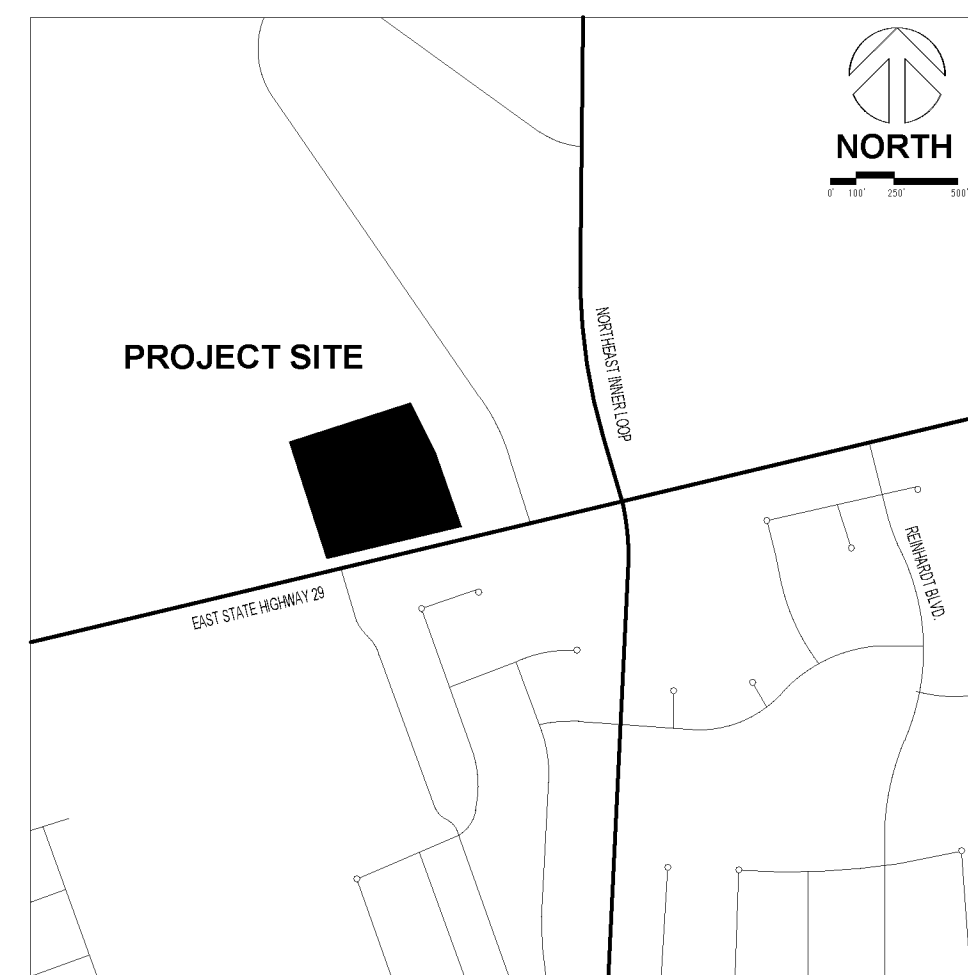
PROJECT INFORMATION:

PROPOSED USE: EMERGENCY SERVICES STATION
ZONING DISTRICT(S): PF (PUBLIC FACILITY)
OVERLAY DISTRICT(S): SCENIC OVERLAY DISTRICT
ACERAGE: 6.04
PROPOSED TOTAL IMPERVIOUS COVERAGE: 1.806 ACRES
LEGAL DESCRIPTION: 6.041 ACRE TRACT OF LAND LOCATED IN THE WILLIAM ADDISON SURVEY, ABSTRACT 21, WILLIAMSON COUNTY, TX
UTILITY PROVIDERS:
ATMOS ENERGY, 3110 N. IH 35, ROUND ROCK, TX 78681, (512) 310-3885
GEORGETOWN UTILITY SYSTEMS, 300 INDUSTRIAL AVE, GEORGETOWN, TX 78626, (512) 930-3640

GENERAL SITE DEVELOPMENT PLAN NOTES:

- IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER AND SUCCESSORS TO THE CURRENT PROPERTY OWNER TO ENSURE THE SUBJECT PROPERTY AND ANY IMPROVEMENTS ARE MAINTAINED IN CONFORMANCE WITH THIS SITE DEVELOPMENT PLAN.
- THIS DEVELOPMENT SHALL COMPLY WITH ALL STANDARDS OF THE UNIFIED DEVELOPMENT CODE (UDC). THE CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL, THE DEVELOPMENT MANUAL AND ALL OTHER APPLICABLE CITY STANDARDS.
- THIS SITE DEVELOPMENT PLAN SHALL MEET THE UDC STORMWATER REQUIREMENTS.
- ALL SIGNAGE REQUIRES A SEPARATE APPLICATION AND APPROVAL FROM THE INSPECTION SERVICES DEPARTMENT. NO SIGNAGE IS APPROVED WITH THE SITE DEVELOPMENT PLAN.
- SIDEWALKS SHALL BE PROVIDED IN ACCORDANCE WITH THE UDC.
- DRIVEWAYS WILL REQUIRE APPROVAL BY THE DEVELOPMENT ENGINEER OF THE CITY OF GEORGETOWN.
- OUTDOOR LIGHTING SHALL COMPLY WITH SECTION 7.05 OF THE UDC.
- SCREENING OF MECHANICAL EQUIPMENT, DUMPSTERS AND PARKING SHALL COMPLY WITH CHAPTER 8 OF THE UDC. THE SCREENING IS SHOWN ON THE LANDSCAPE AND ARCHITECTURAL PLANS, AS APPLICABLE.
- THE COMPANION LANDSCAPE PLAN HAS BEEN DESIGNED AND PLANT MATERIALS SHALL BE INSTALLED TO MEET ALL REQUIREMENTS OF THE UDC.
- ALL MAINTENANCE OF REQUIRED LANDSCAPE SHALL COMPLY WITH THE MAINTENANCE STANDARDS OF CHAPTER 8 OF THE UDC.

VICINITY MAP



UTILITY PROVIDERS

ELECTRIC: CITY OF GEORGETOWN (GUS)
WATER/SANITARY SEWER: CITY OF GEORGETOWN
GAS: ATMOS ENERGY; ALIDA PAINE 512.310.3855
CABLE: SUDDENLINK; 512.931.2964
TELEPHONE: VERIZON; DANNY FORTENE 512.869.2217

OWNER PROVIDED CONTRACTS

ACCESS CONTROL/ CCTV: CONVERGINT TECHNOLOGIES; 512.351.4042
DATA/CABLING & AV: ERIC JOHNSON, CITY OF GEORGETOWN; ERIC.JOHNSON@GEORGETOWN.ORG
ALERTING SYSTEM: US DIGITAL DESIGNS; JAMES AMOS 602.687.1730

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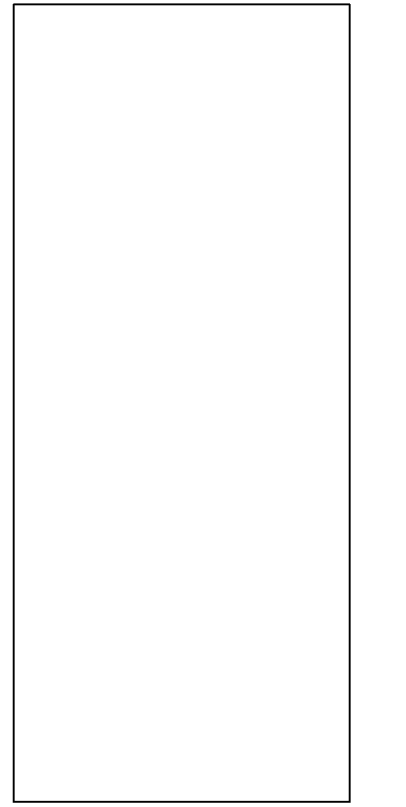
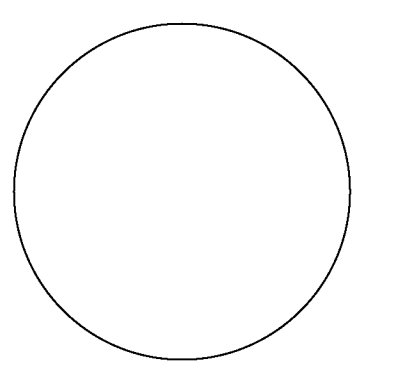
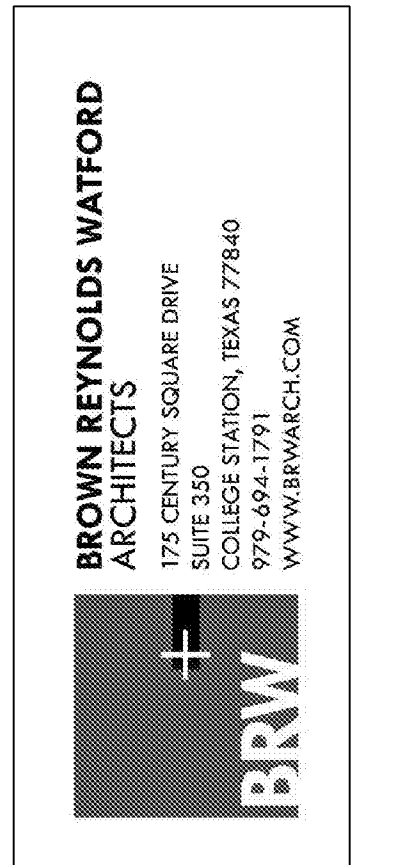
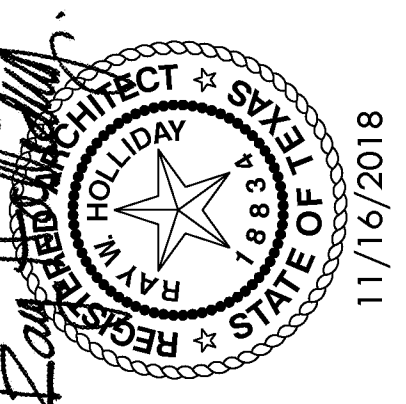
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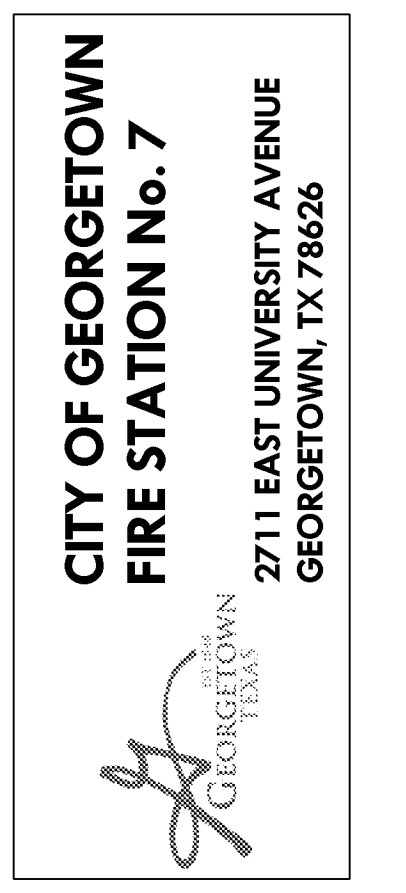
BID ALTERNATES

REFERENCE SPECIFICATION SECTION 01 23 00 - ALTERNATES:
ADD ALTERNATE 1: PROVIDE ADDITIONAL IRRIGATION COVERAGE AS INDICATED ON 1/L1.3.
2. THE PROPERTY SUBJECT TO THIS APPLICATION IS SUBJECT TO THE WATER QUALITY REGULATIONS OF THE CITY OF GEORGETOWN.
3. A GEOLOGIC ASSESSMENT, IN ACCORDANCE WITH THE CITY OF GEORGETOWN WATER QUALITY REGULATIONS, WAS COMPLETED ON 10/27/17. ANY SPRINGS AND STREAMS AS IDENTIFIED IN THE GEOLOGIC ASSESSMENT ARE SHOWN HEREIN.

CITY PROJECT NO.: SDP-2018-047



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BROWN REYNOLDS WATFORD ARCHITECTS, INC.
DATE: 11/16/2018
DRAWN BY: LG, CL, JT, NB
CHECKED BY: RHT
BRW PROJECT NUMBER: 218044.00



NO.	REVISION	DATE



TITLE SHEET AND DRAWING INDEX

MASTER KEYNOTE LIST

NO.	REVISION	DATE
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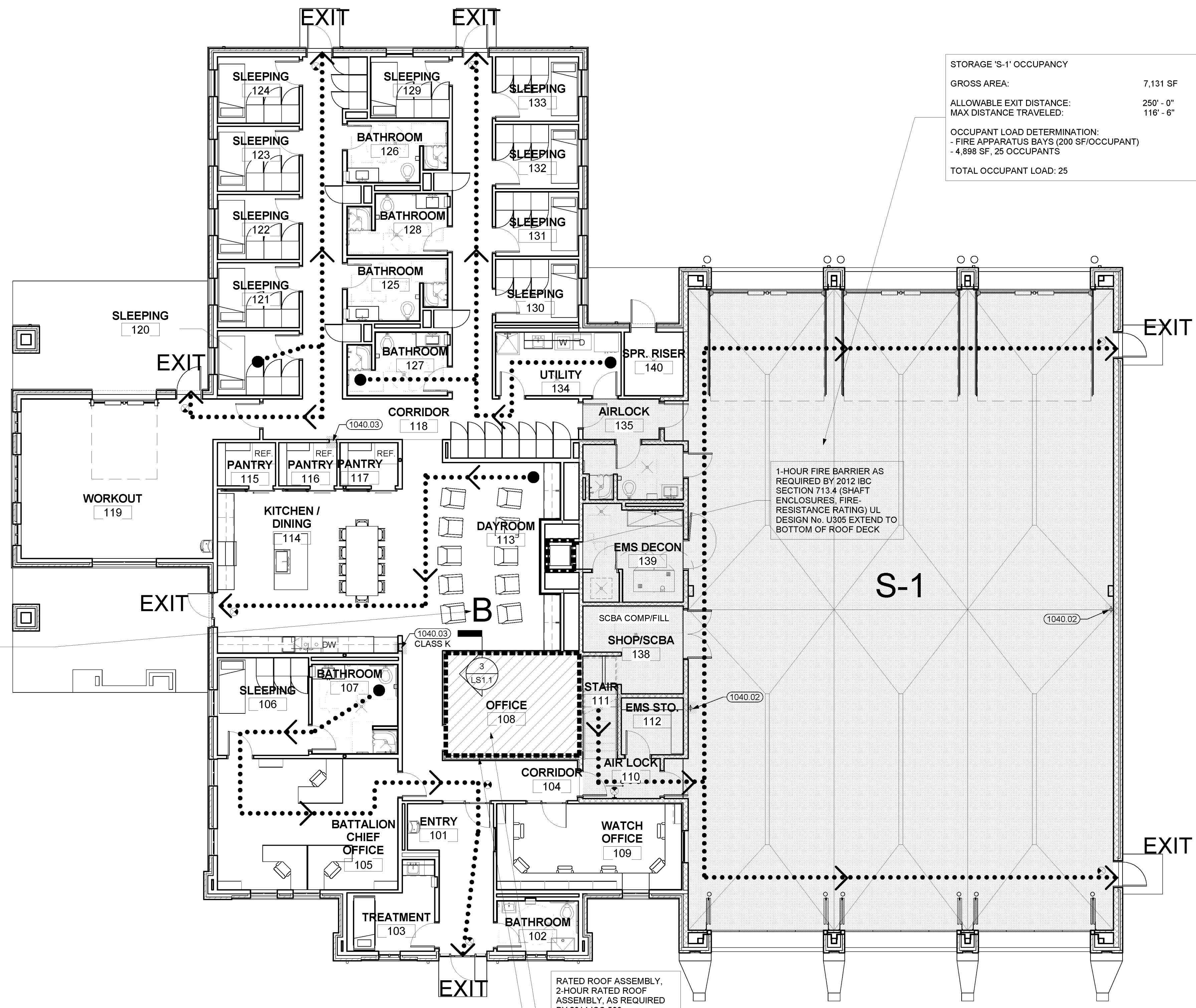
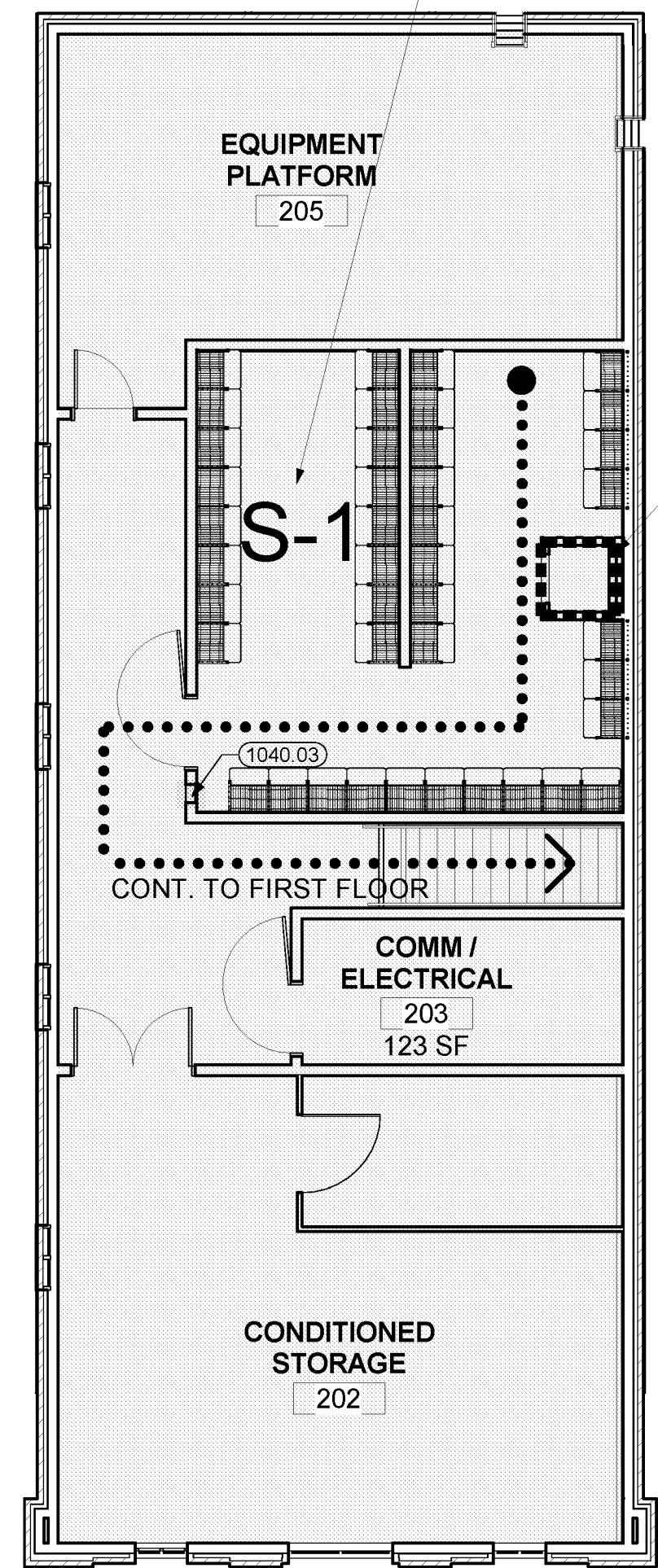
MASTERFORMAT 2004

STORAGE 'S-1' OCCUPANCY
 GROSS AREA: 7,131 SF
 ALLOWABLE EXIT DISTANCE: 250' - 0"
 MAX DISTANCE TRAVELED: 116' - 6"
 OCCUPANT LOAD DETERMINATION:
 - STORAGE AREAS/MECH. EQUIPMENT ROOMS ABOVE
 (300 SF/OCCUPANT)
 - 2,233 SF, 8 OCCUPANTS
 TOTAL OCCUPANT LOAD: 8

1-HOUR FIRE BARRIER AS
 REQUIRED BY 2012 IBC
 SECTION 713.4 (SHAFT
 ENCLOSURES, FIRE-
 RESISTANCE RATING) UL
 DESIGN No. U305 EXTEND TO
 BOTTOM OF ROOF DECK

ASSEMBLY 'B' OCCUPANCY
 GROSS AREA: 5,631 SF
 ALLOWABLE EXIT DISTANCE: 250' - 0"
 MAX DISTANCE TRAVELED: 81' - 10"
 OCCUPANT LOAD DETERMINATION:
 - BUSINESS AREAS (100 SF/OCCUPANT)
 - 5,631 SF, 57 OCCUPANT
 TOTAL OCCUPANT LOAD: 57

STORAGE 'S-1' OCCUPANCY
 GROSS AREA: 7,131 SF
 ALLOWABLE EXIT DISTANCE: 250' - 0"
 MAX DISTANCE TRAVELED: 116' - 6"
 OCCUPANT LOAD DETERMINATION:
 - FIRE APPARATUS BAYS (200 SF/OCCUPANT)
 - 4,898 SF, 25 OCCUPANTS
 TOTAL OCCUPANT LOAD: 25



- ### KEYNOTES
- 0320.02 STEEL REINFORCING (RE: STRUCTURAL)
 - 0330.02 CONCRETE SLAB (RE: STRUCTURAL)
 - 0420.23 CONCRETE MASONRY BOND BEAM
 - 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE: STRUCTURAL)
 - 0610.03 2X WOOD BLOCKING
 - 0610.10 2 X 6 WOOD STUDS AT 16" O.C.
 - 0610.11 2 X 6 WOOD FRAMING
 - 0920.17 SUSPENDED GYPSUM BOARD PANELS ON METAL STUD FRAMING
 - 0920.28 5/8" GYPSUM BOARD (TYPE X)
 - 0950.01 SUSPENDED ACOUSTICAL LAY-IN TILE CEILING (2 X 2)
 - 0960.13 4" RESILIENT BASE
 - 1040.02 FIRE EXTINGUISHER AND WALL BRACKET
 - 1040.03 FIRE EXTINGUISHER AND SEMI-RECESSED CABINET

- ### LEGEND
- EXIT EXIT / EXIT DISCHARGE
 - MEANS OF EGRESS PATH
 - FIRE EXTINGUISHER
 - 1-HR FIRE BARRIER
 - 2-HR FIRE BARRIER
 - ILLUMINATED EXIT SIGN CEILING / WALL MOUNT

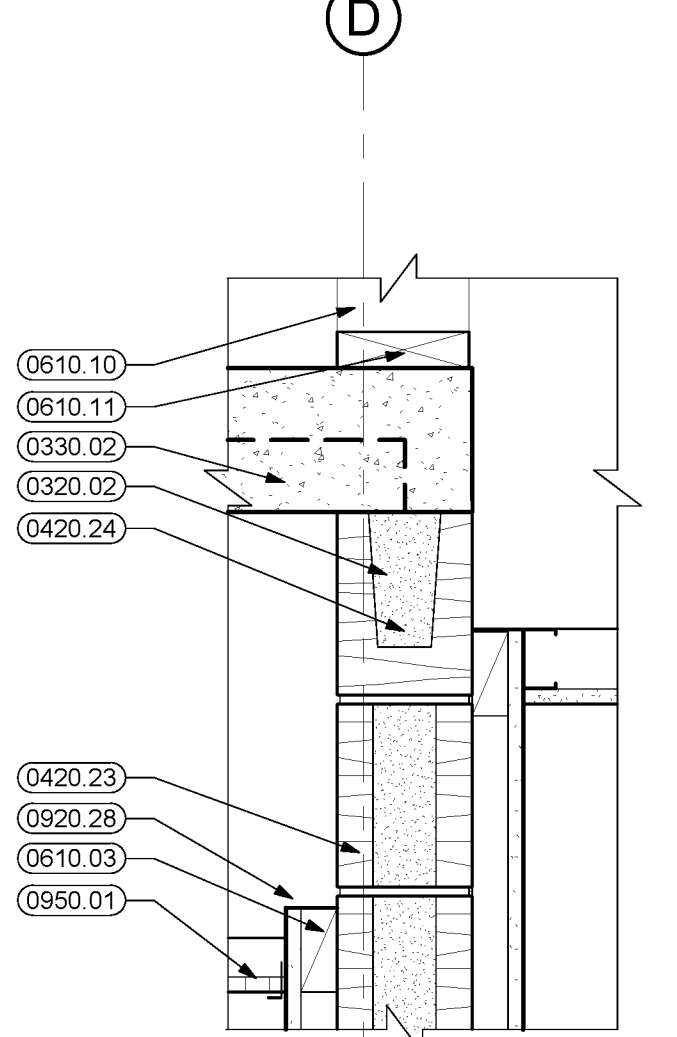
CODE ANALYSIS

IBC CONSTRUCTION TYPE	V-B
SPRINKLER SYSTEM	FULL NFPA 13
OCCUPANCY TYPE	MIXED (B, S-1)
REQUIRED SEPARATION	NOT REQUIRED PER TABLE 508.4 2012 IBC
OCCUPANCY LOAD	57
BUSINESS STORAGE	33
TOTAL	90
TOTAL AREA (APPROPRIATE FOR CODE REVIEW ONLY)	
FIRST FLOOR	11,107 SF
STORAGE/MECH. ABOVE	2,466 SF

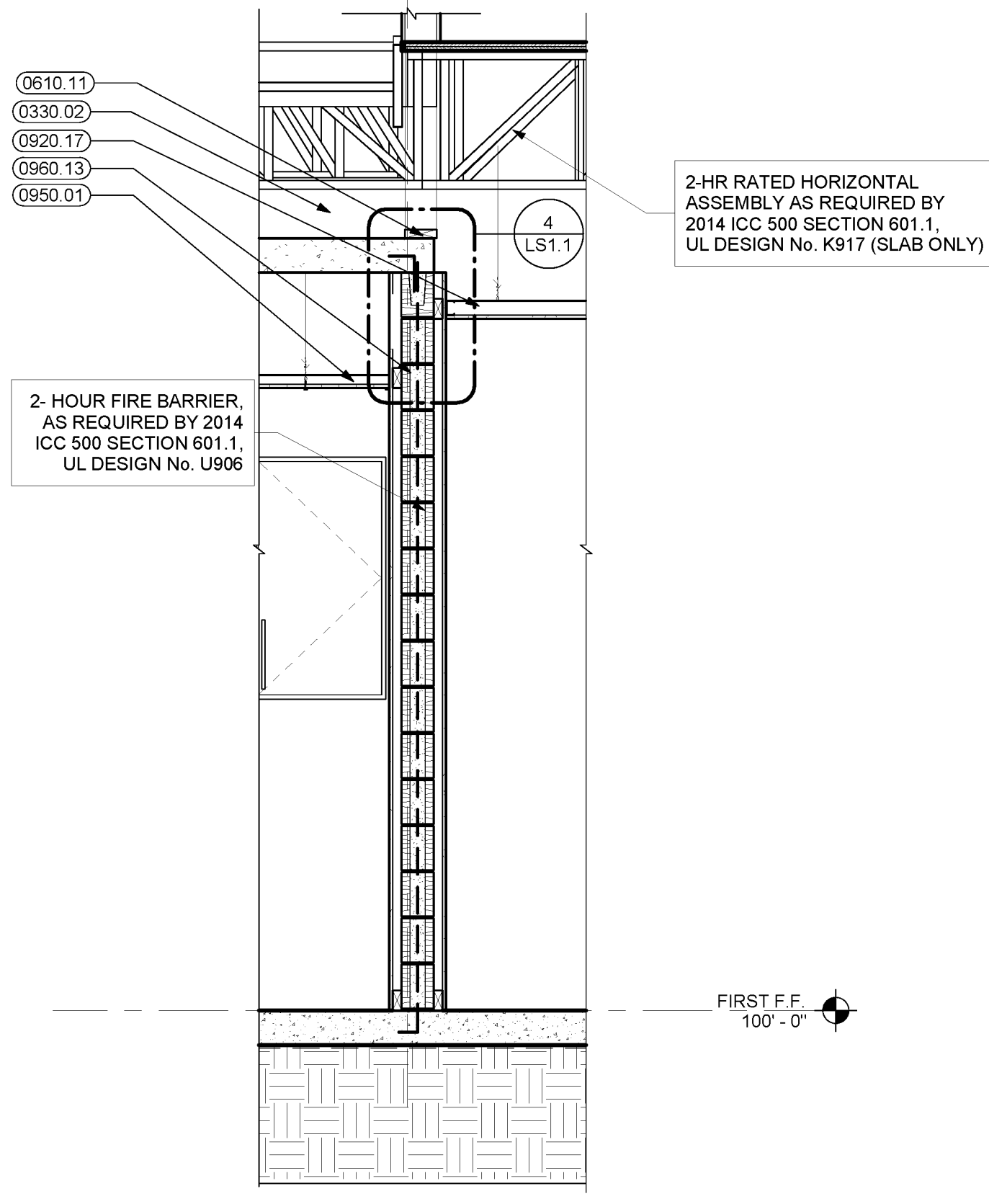
NOTE:
 1) SQUARE FOOTAGES IN ANALYSIS ARE FOR CODE OFFICIALS AND OWNER. CONTRACTOR SHALL MAKE HIS/HER OWN TAKE OFFS AND CALCULATIONS AS REQUIRED.
 2) EXIT/EGRESS SIGNAGE. PROVIDE INTERIOR TACTILE ROOM SIGNAGE AT ALL DOORS ALONG PASSAGEWAYS, EXIT STAIRWAYS, AND EXIT DISCHARGE LEADING TO ACCESSIBLE MEANS OF EGRESS. REFER TO SIGNAGE ON DRAWING AS 0.

2 SECOND FLOOR LIFE SAFETY PLAN
 1/8" = 1'-0"

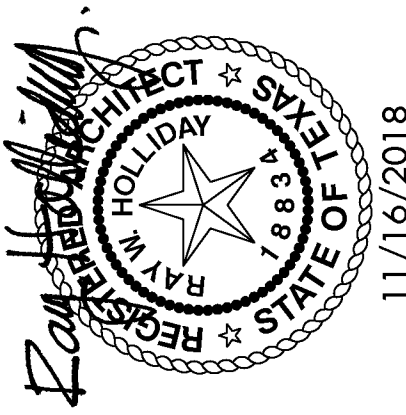
1 FIRST FLOOR LIFE SAFETY PLAN
 1/8" = 1'-0"



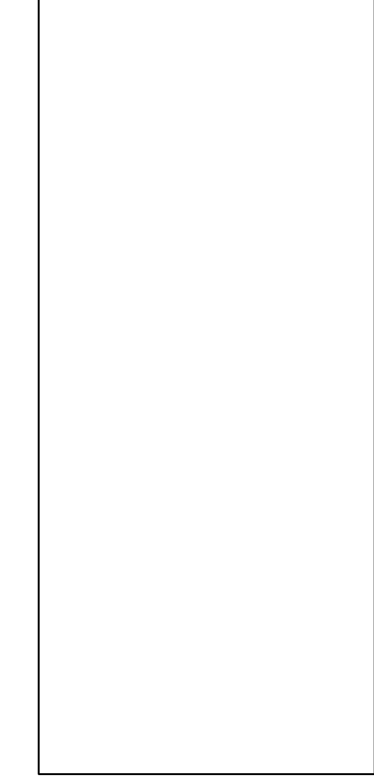
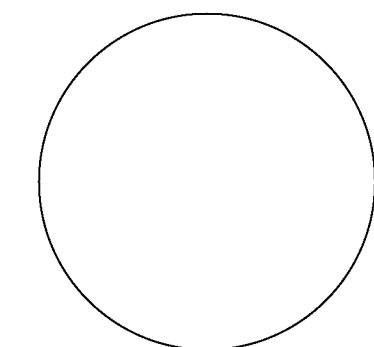
4 SECTION DETAIL
 1 1/2" = 1'-0"



3 WALL SECTION
 1/2" = 1'-0"



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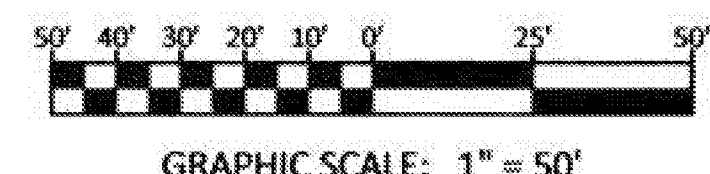
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 BRW PROJECT NUMBER 218044.00

CITY OF GEORGETOWN
FIRE STATION No. 7
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 GEORGETOWN, TX 78626

NO.	REVISION	DATE



LIFE SAFETY PLAN

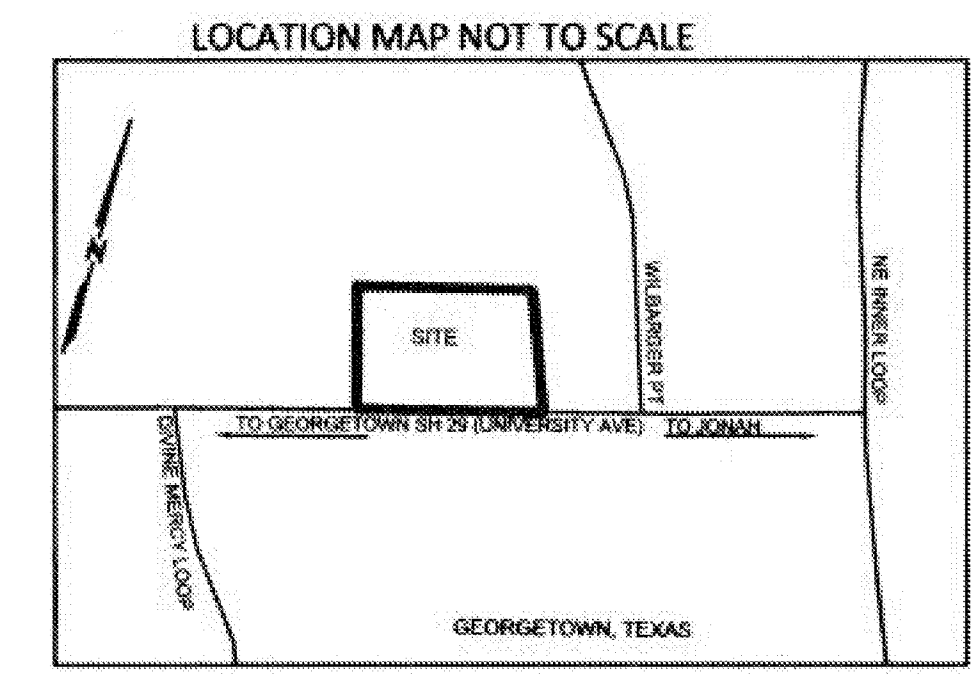


GRAPHIC SCALE: 1" = 50'
 CALLED 14.73 ACRES
 TRACT 3
 SOUTHWESTERN UNIVERSITY
 DOC. NO. 2000068095, O.P.R.

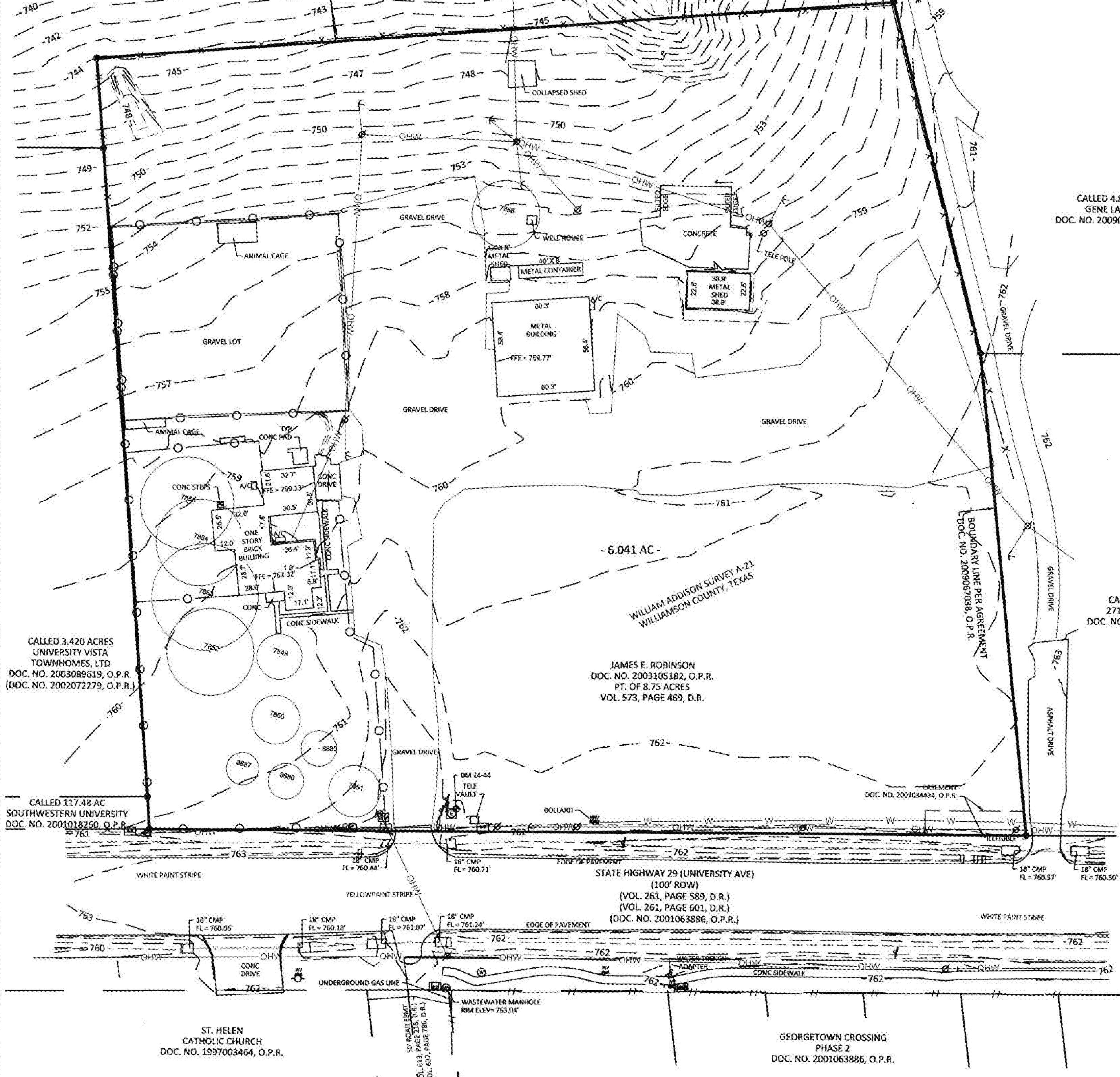
CALLED 4.217 ACRES
 GENE L. LAWHON
 VOL. 2252, PAGE 791, D.R.

NOTE:
 THIS SURVEY IS PROVIDED FOR INFORMATION PURPOSES ONLY. IT WAS PREPARED BY STEGER BIZZELL FOR THE CITY OF GEORGETOWN, NOT BY OR UNDER DIRECTION OF BROWN REYNOLDS WATFORD ARCHITECTS, INC.
 BROWN REYNOLDS WATFORD ARCHITECTS, INC. MAKES NO WARRANTIES OR ASSURANCES TO THE SURVEY'S ACCURACY OR CORRECTNESS.

- LEGEND**
- IRON REBAR FOUND (1/2", OR AS NOTED)
 - IRON REBAR SET WITH CAP STAMPED "STEGER BIZZELL"
 - O.P.R. OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS
 - D.R. DEED RECORDS OF WILLIAMSON COUNTY, TEXAS
 - ROW RIGHT-OF-WAY
 - ⊕ BENCH MARK
 - ⊖ ELECTRIC MANHOLE
 - ⊕ FIRE HYDRANT
 - ⊕ GAS TEST STATION
 - ⊕ GUY ANCHOR
 - ⊕ LIGHT POLE
 - OHW OVERHEAD ELECTRIC
 - ⊖ SANITARY CLEANOUT
 - ⊕ POWER POLE
 - ⊕ SIGN POST
 - ⊕ TELEPHONE JUNCTION BOX
 - TEL TELEPHONE MARKER
 - ⊖ WATER MANHOLE
 - ⊖ WASTEWATER MANHOLE
 - ⊕ AIR RELEASE VALVE
 - ⊕ WATER METER
 - ⊕ WATER VALVE
 - ⊕ CHAIN LINK FENCE
 - ⊕ BARB WIRE FENCE
 - ⊕ WOOD PRIVACY FENCE
 - ⊕ UNDERGROUND STORM DRAIN
 - ⊕ UNDERGROUND WATER LINE
 - ⊕ MAILBOX



- NOTES:**
- BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE X (NOT SHADED) - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 480212025E, THAT BEARS AN EFFECTIVE/REVISED DATE OF SEPTEMBER 26, 2008. THE SURVEYOR MAKES NO ASSURANCE AS TO THE ACCURACY OF THE DELINEATIONS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP. THIS STATEMENT IS FOR INSURANCE PURPOSES ONLY AND IS NOT AN OPINION THAT THE PROPERTY WILL OR WILL NOT FLOOD. A FLOOD STUDY WAS NOT CONDUCTED ON THE PROPERTY.
 - BEARINGS ARE BASED ON THE TEXAS COORDINATE SYSTEM OF 1983, CENTRAL ZONE (NAD 83 (2011)). ALL DISTANCES SHOWN HEREON ARE SURFACE VALUES REPRESENTED IN U.S. SURVEY FEET BASED ON A GRID-TO-SURFACE COMBINED ADJUSTMENT FACTOR OF 1.00013.
 - THE SYMBOLS REFLECTED IN THE LEGEND AND ON THIS SURVEY MAY HAVE BEEN ENLARGED FOR CLARITY. THE SYMBOLS SHOWN HEREON ARE PLOTTED AT THE CENTER OF THE FIELD LOCATION AND MAY NOT REPRESENT THE ACTUAL SIZE OR SHAPE OF THE FEATURE.
 - THIS TOPOGRAPHIC MAP DOES NOT REPRESENT A BOUNDARY SURVEY, AND SHALL NOT BE USED FOR CONVEYANCE. THE LINES AND OTHER INFORMATION REPRESENTING THE PERIMETER OF THE PROPERTY ARE FOR GENERAL DESCRIPTIVE PURPOSES ONLY.
 - VERTICAL POSITIONS WERE DETERMINED USING THE "LEICA SMARTNET" AND GPS REAL TIME SURVEY METHODS AND ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM (NAVD) 88, USING GEOID 12A.
 - UTILITY INFORMATION SHOWN HEREON CONSTITUTES FIELD RECOVERY OF OBSERVED EVIDENCE WITH EVIDENCE FROM MARKINGS BY UTILITY COMPANIES CONTACTED THROUGH THE "DIG TEST" UTILITY LOCATING SERVICE. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES, SUCH AS ELECTRICAL, TELEPHONE, CABLE TV AND PIPELINES, MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES. FOR INFORMATION REGARDING BURIED UTILITIES/STRUCTURES OR BEFORE ANY EXCAVATION IS BEGUN, CONTACT THE APPROPRIATE AGENCIES FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATION.
 - TREES SHOWN HERE ON WERE LOCATED AND MEET THE STANDARDS SET FORTH IN THE CITY OF GEORGETOWN UNIFIED DEVELOPMENT CODE, CHAPTER 8: TREE PRESERVATION, LANDSCAPING AND FENCING, SECTION 8.02 TREE PRESERVATION AND PROTECTION. OTHER TREES AND VEGETATION MAY EXIST ON SITE.
 - TREE CROWNS SHOWN HERE ON ARE A GRAPHICAL DEPICTION OF THE PROBABLE EXTENTS OF THE TREE CANOPY BASED ON THE TRUNK SIZE USING THE FORMULA OF ONE (1) FOOT OF RADIUS FOR EVERY ONE (1) INCH OF TRUNK DIAMETER AND MAY NOT REPRESENT THE ACTUAL SIZE OR SHAPE OF THE TREE CANOPY.
 - TREE DIAMETER OF MULTI-TRUNK TREE DETERMINED BY ADDING THE DIAMETER OF THE LARGEST TRUNK TO 1/2 THE DIAMETER OF EACH ADDITIONAL TRUNK.



CALLED 3.420 ACRES
 UNIVERSITY VISTA
 TOWNHOMES, LTD
 DOC. NO. 2003089619, O.P.R.
 (DOC. NO. 2002072279, O.P.R.)

CALLED 117.48 AC
 SOUTHWESTERN UNIVERSITY
 DOC. NO. 2001018260, O.P.R.

- 6.041 AC -
 WILLIAM ADDISON SURVEY A-21
 WILLIAMSON COUNTY, TEXAS

JAMES E. ROBINSON
 DOC. NO. 2003105182, O.P.R.
 PT. OF 8.75 ACRES
 VOL. 573, PAGE 469, D.R.

CALLED 4.87 ACRES
 GENE LAWHON
 DOC. NO. 2009069154, O.P.R.

CALLED 0.99 ACRES
 2719 HWY. 29 E, LLC
 DOC. NO. 2009064520, O.P.R.

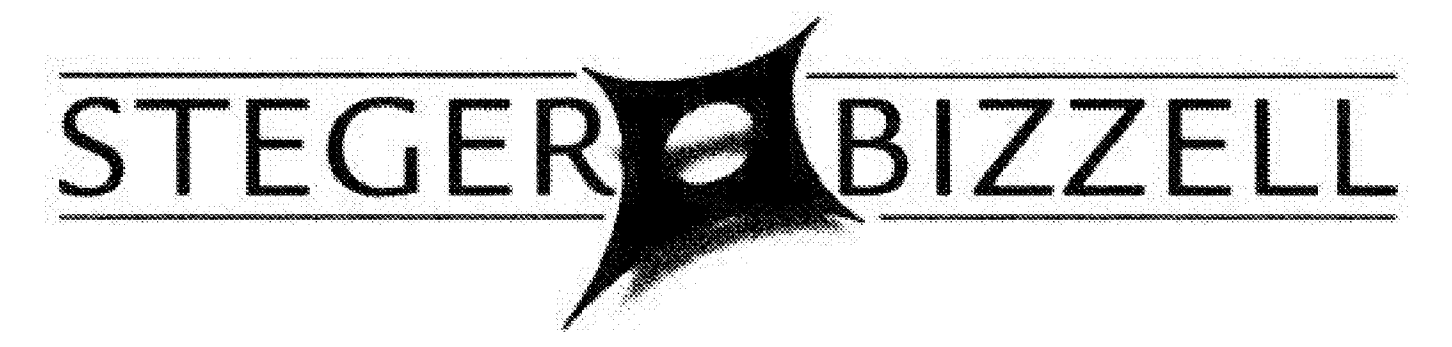
THIS IS TO CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND IN OCTOBER, 2017, BY ME OR UNDER MY SUPERVISION, THAT THIS SURVEY PLAT REPRESENTS THE FACTS FOUND AT THE TIME OF THE SURVEY.

STEGER BIZZELL

MIGUEL A. ESCOBAR, L.S.L.S., R.P.L.S.
 TEXAS REG. NO. 5630



TOPOGRAPHIC SURVEY OF
 6.041 ACRE TRACT OF LAND BEING THE SAME
 LAND CONVEYED TO JAMES E. ROBINSON
 RECORDED IN DOCUMENT NO. 2003105182,
 OF THE OFFICIAL PUBLIC RECORDS, OUT OF
 THE WILLIAM ADDISON SURVEY A-21,
 WILLIAMSON COUNTY, TEXAS



ADDRESS	1978 S. AUSTIN AVENUE	GEORGETOWN, TX 78626
METRO	512.930.9412	TEXAS REGISTERED ENGINEERING FIRM F-181 TBPLS FIRM No. 10003700
SERVICES	>>ENGINEERS >>PLANNERS >>SURVEYORS	
WEBSITE	STEGERBIZZELL.COM	

HERITAGE TREE LIST

TAG #	Description
7852	27in PECAN
7853	33in PECAN
7854	27in PECAN
7855	29in PECAN

PROTECTED TREE LIST

TAG #	Description
7849	14in PIN OAK
7850	15in PIN OAK
7851	16in PIN OAK
7856	21in PECAN

PROTECTED TREE LIST

TAG #	Description
8885	11in RED OAK
8886	11in RED OAK
8887	10in RED OAK

BENCHMARK
 BM 24-44: SQUARE CUT INTO THE NORTHEAST CORNER OF ELECTRIC MANHOLE PAD, APPROXIMATELY 51 FEET NORTH OF CENTERLINE OF STATE HIGHWAY 29, AND APPROXIMATELY 1000 FEET WEST OF NORTH INNER LOOP.
 GRID NORTHING: 10206065.59
 GRID EASTING: 3141555.97
 ELEV: 763.75'

REVISED 09/12/2018: ADDED ADDITIONAL TREES, 8885-8887

JOB No. 22564

DATE: 10/31/2017 SHEET 1 of 1

DRAWN BY: SMF

REVIEWED BY:

APPROVED BY:

CO.0

BOUNDARY AND TOPOGRAPHIC SURVEY

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CITY OF GEORGETOWN
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 2711 EAST UNIVERSITY AVENUE
 GEORGETOWN, TX 78626

NO.	REVISION	DATE



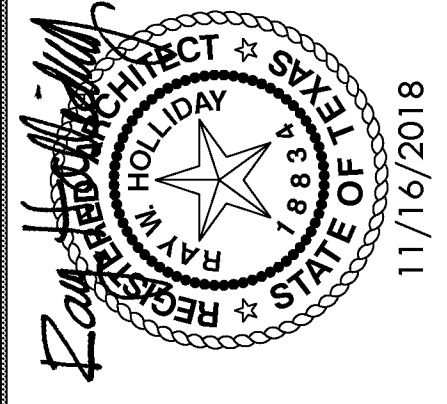
KEYNOTES
0220.01 EXISTING TREE

DEMO LEGEND

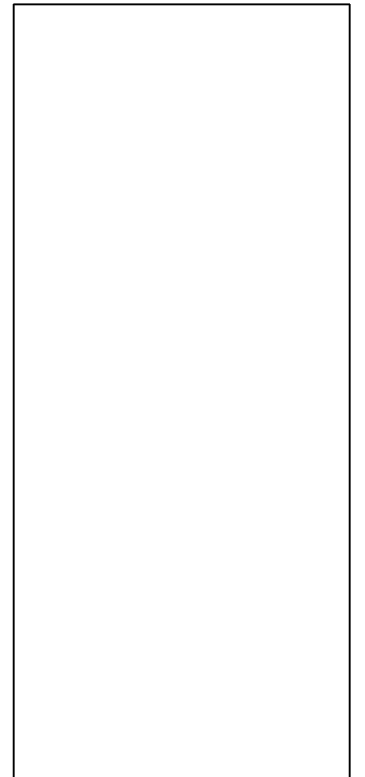
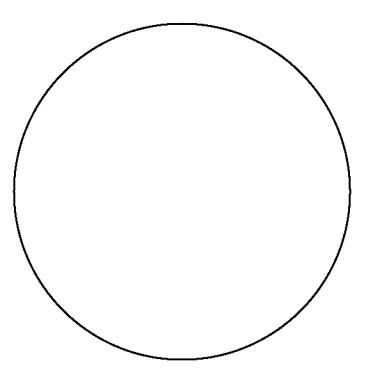
PATTERN	DESCRIPTION
[Diagonal lines top-left to bottom-right]	EXISTING STRUCTURE TO BE REMOVED
[Diagonal lines bottom-left to top-right]	EXISTING STRUCTURE TO REMAIN
[Stippled pattern]	EXISTING CONCRETE TO BE REMOVED
[Solid grey fill]	EXISTING CONCRETE TO REMAIN
[Diagonal lines top-left to bottom-right]	EXISTING GRAVEL TO BE REMOVED
[Diagonal lines bottom-left to top-right]	EXISTING GRAVEL TO BE REMAIN
[Diagonal lines top-left to bottom-right]	EXISTING GRAVEL TO BE REMAIN DURING CONSTRUCTION, AND TO BE REMOVED AT SUBSTANTIAL COMPLETION.
[Hatched pattern]	CLEAR AREA TO 3" OR LESS ABOVE GRADE, REMOVE SPOILS FROM SITE
[Circle with crosshair]	EXISTING POWER POLE TO REMAIN
[Circle with slash]	EXISTING POWER POLE TO BE RELOCATED BY OTHERS
[Line with 'OH']	OVERHEAD ELECTRIC TO REMAIN
[Line with 'OH']	OVERHEAD ELECTRIC TO BE RELOCATED BY OTHERS
[Line with 'W']	UNDERGROUND WATER LINE
[Line with 'C']	CHAIN LINK FENCE
[Line with 'B']	BARB WIRE FENCE

GENERAL NOTES

- CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCE AROUND PERIMETER OF SITE DURING DEMOLITION.
- COORDINATE UTILITY LINE LOCATIONS WITH CIVIL DRAWINGS. CONTRACTOR TO CONTACT LOCAL UTILITY AUTHORITY TO DISCONNECT, RELOCATE AND/OR CAP EXISTING UTILITIES INVOLVED IN DEMOLITION.
- CONTRACTOR SHALL VISIT THE SITE AND IDENTIFY ANY ADDITIONAL ITEMS THAT ARE TO BE DEMOLISHED & REMOVED AND TO INCLUDE THESE ITEMS AS A PART OF THEIR BID.
- CONTRACTOR SHALL COORDINATE WITH OWNER REGARDING SALVAGE AND/OR DISPOSAL OF ALL EXISTING BUILDINGS, EQUIPMENT, OR UTILITIES.



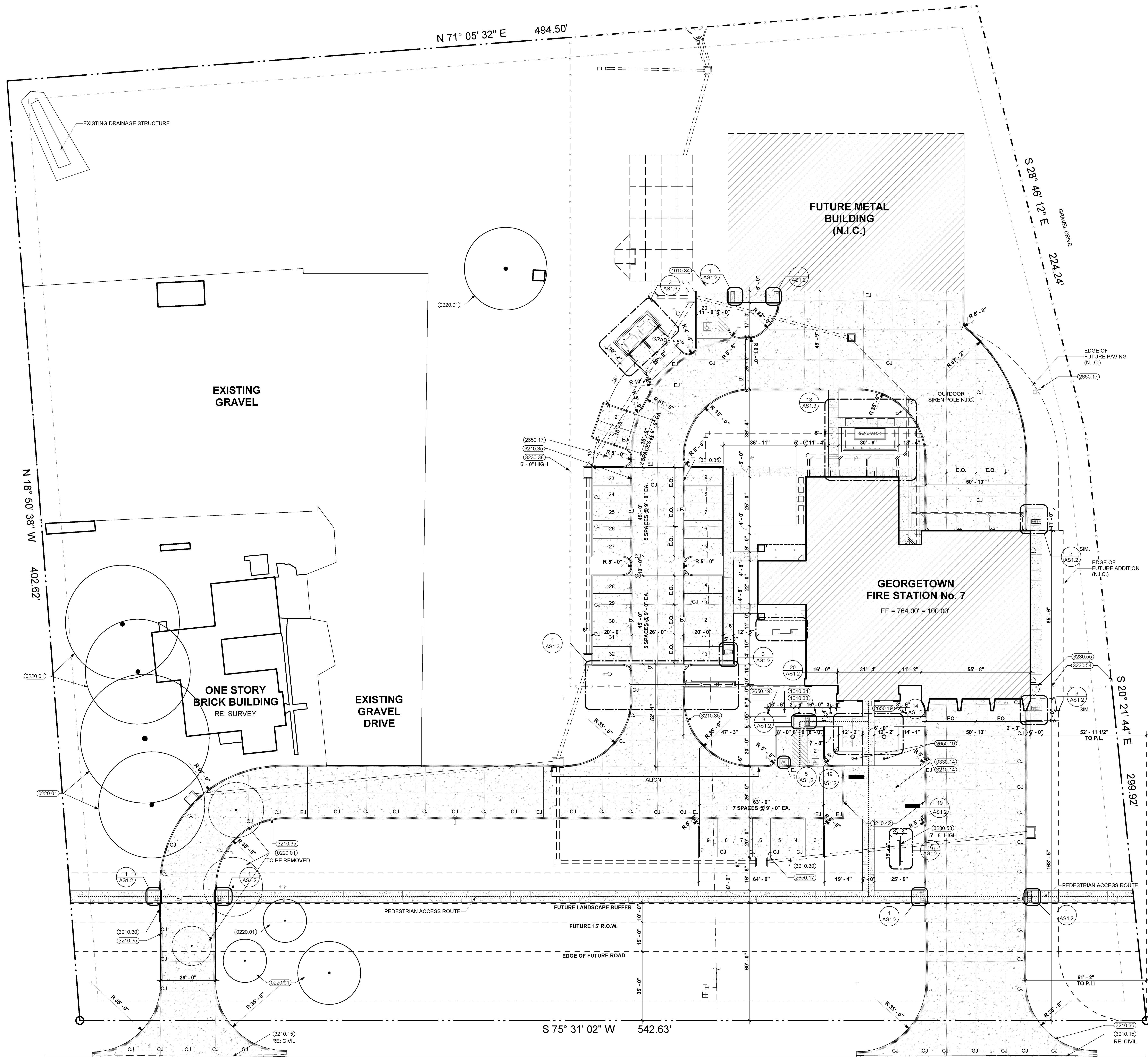
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DALLAS, TEXAS 75240
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**CITY OF GEORGETOWN
FIRE STATION No. 7**
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GEORGETOWN, TX 78626

NO.	REVISION	DATE



KEYNOTES

- 0220.01 EXISTING TREE
- 0330.14 ARCHITECTURALLY FINISHED CONCRETE
- 1010.33 POLE MOUNTED SIGNAGE - "H.C. PARKING ONLY" (RE: 3/AC1.2)
- 1010.34 POLE MOUNTED SIGNAGE - "VAN-ACCESSIBLE" (RE: 3/AC1.2)
- 2650.17 LIGHT POLE / FIXTURE ON CONCRETE BASE
- 2650.19 BOLLARD LIGHT FIXTURE
- 3210.14 CONCRETE PAVING (RE: CIVIL)
- 3210.15 CONCRETE APPROACH PER CITY REQUIREMENTS
- 3210.30 6" CONCRETE CURB (WITH GUTTER AS REQUIRED) (RE: CIVIL)
- 3210.35 FIRE LANE STRIPING PER CITY REQUIREMENTS
- 3210.42 6" CONCRETE MOUNTABLE CURB (WITH GUTTER AS REQUIRED) (RE: CIVIL)
- 3230.38 DECORATIVE METAL FENCE
- 3230.53 MONUMENT SIGN
- 3230.54 DECORATIVE FENCE
- 3230.55 DECORATIVE GATE

LEGEND

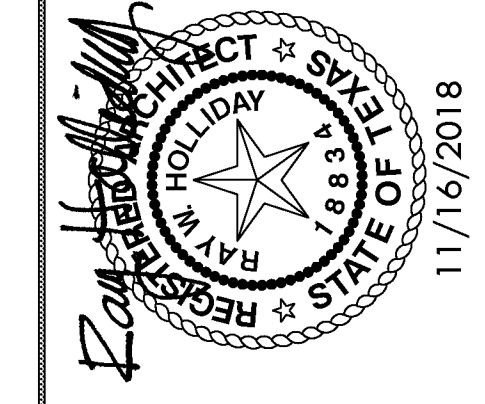
PATTERN	DESCRIPTION
[Pattern]	7" THICK (HEAVY DUTY) CURB-HEIGHT DYED & STAMPED CONCRETE PAVEMENT COLOR: AMERIPOLISH OS INTEGRAL: GRAY RE: 21/AS1.2 FOR STAMP PATTERN RE: CIVIL FOR MOUNTABLE CURB DETAIL
[Pattern]	PEDESTRIAN ACCESS ROUTE
[Pattern]	FIRE LANE STRIPING RE: 9/AS1.2

SITE DATA:

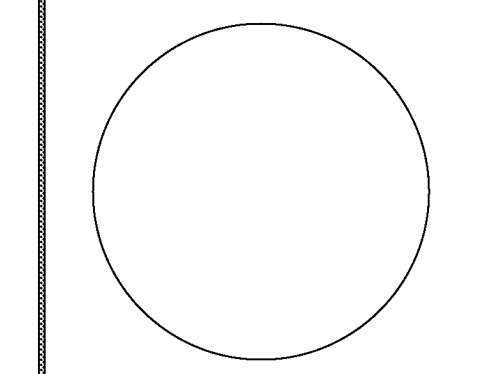
LAND AREA: 263,146 SF, 6.041 ACRES
 ALLOWED IMPERVIOUS COVERAGE: 4 ACRES (67.41%)
 IMPERVIOUS COVER % = $[(0.70 \times 5 \text{ ACRES}) + (0.55 \times (6.041 \text{ ACRES} - 5 \text{ ACRES}))] / 6.041 \text{ ACRES} \times 100 = 67.41\%$
 ACTUAL IMPERVIOUS COVERAGE: 1,806 ACRES (29.89%)
 TOTAL GROSS FLOOR AREA: 13,407 SF
 REQ'D PARKING SPACES: 26
 PARKING SPACES PROVIDED: 32
HORIZONTAL ARTICULATION FOR FOOTPRINT:
 AVERAGE BUILDING HEIGHT = 26'-0"
 MAX. DISTANCE WITHOUT PERPENDICULAR OFFSET: 26' X 3 = 78'-0"
 MIN. HEIGHT OF PERPENDICULAR OFFSET: 26' X 0.25 = 6'-6"
 MIN. SPAN OF PERPENDICULAR OFFSET: 26' X 0.75 = 19'-6"
VERTICAL ARTICULATION FOR ELEVATIONS:
 MAX. DISTANCE WITHOUT VERTICAL ELEVATION CHANGE: 26' X 3 = 78'-0"
 MIN. HEIGHT OF VERTICAL ELEVATION CHANGE: 26' X 0.25 = 6'-6"
 MIN. LATERAL ELEVATION CHANGE: 26' X 0.75 = 19'-6"
 REFER TO ALTERNATIVE BUILDING DESIGN SUBMITTAL FOR EAST WALL OF FIRE STATION EXCEEDING MAX. DISTANCE WITHOUT PERPENDICULAR OFFSET / VERTICAL ELEVATION CHANGE.

DIMENSIONAL SITE PLAN NOTES:

- ALL LIGHTING FIXTURES SHALL BE DESIGNED TO COMPLETELY CONCEAL AND FULLY SHIELD, WITHIN AN OPAQUE HOUSING, THE LIGHT SOURCE FROM VISIBILITY FROM ANY STREET RIGHT-OF-WAY. THE CONE OF LIGHT SHALL NOT CROSS ANY ADJACENT PROPERTY LINE. THE ILLUMINATION SHALL NOT EXCEED 2 FOOT CANDLES AT A HEIGHT OF THREE FEET AT THE PROPERTY LINE. ONLY INCANDESCENT, FLUORESCENT, COLOR-CORRECTED HIGH-PRESSURE SODIUM OR METAL HALIDE MAY BE USED. ALL VEHICLE OR PEDESTRIAN ACCESS SHALL BE SUFFICIENTLY LIGHTED TO ENSURE SECURITY OF PROPERTY AND PERSONS.
- ALL ROOF, WALL AND GROUND MOUNTED MECHANICAL EQUIPMENT MUST BE SCREENED IN ACCORDANCE WITH CHAPTER 8 OF THE UDC. IF ROOF AND WALL MOUNTED EQUIPMENT OF ANY TYPE INCLUDING DUCT WORK AND LARGE VENTS IS PROPOSED IT SHALL BE SHOWN ON THE SITE PLAN AND SCREENING IDENTIFIED. SCREENING OR MECHANICAL EQUIPMENT SHALL RESULT IN THE MECHANICAL EQUIPMENT BLENDING IN WITH THE PRIMARY BUILDING AND NOT APPEARING SEPERATE FROM THE BUILDING AND SHALL BE SCREENED FROM VIEW OF ANY RIGHTS-OF-WAY OR ADJOINING PROPERTIES.
- PER CHAPTER 8, THE DUMPSTER ENCLOSURES MUST BE 1 FOOT ABOVE THE HEIGHT OF THE WASTE CONTAINER. USE PROTECTIVE POLES IN CORNERS AND AT IMPACT AREAS. FENCE POSTS OF RUST PROTECTED METAL OR CONCRETE. A MINIMUM 6" SLAB IS REQUIRED AND MUST BE SLOPED TO DRAIN; THE ENCLOSURE MUST HAVE STEEL FRAMED GATES WITH SPRING LOADED HINGES AND FASTENERS TO KEEP CLOSED. SCREENING MUST BE ON ALL FOUR SIDES BY MASONRY WALL OR APPROVED FENCE OR SCREENING WITH OPAQUE GATES.



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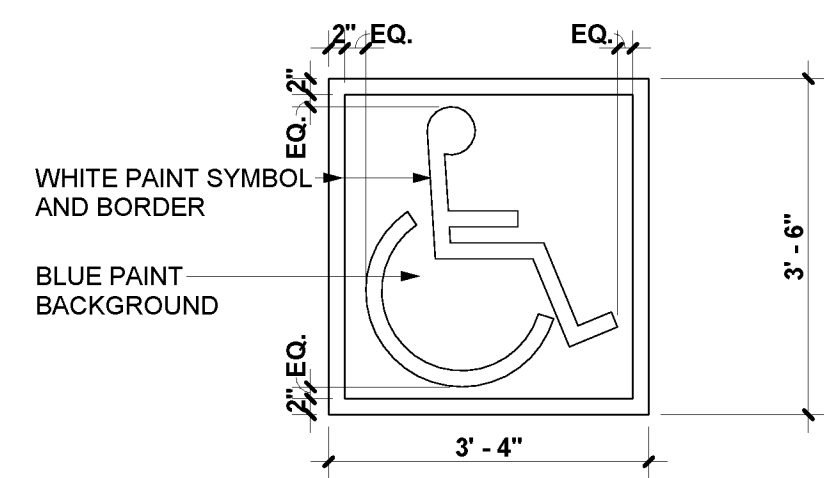
CITY OF GEORGETOWN
FIRE STATION No. 7

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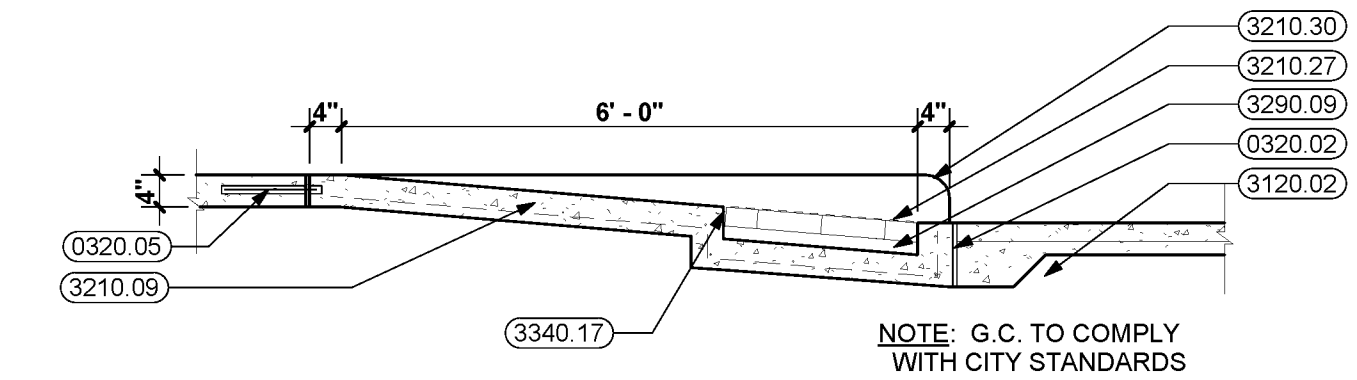
CITY OF GEORGETOWN
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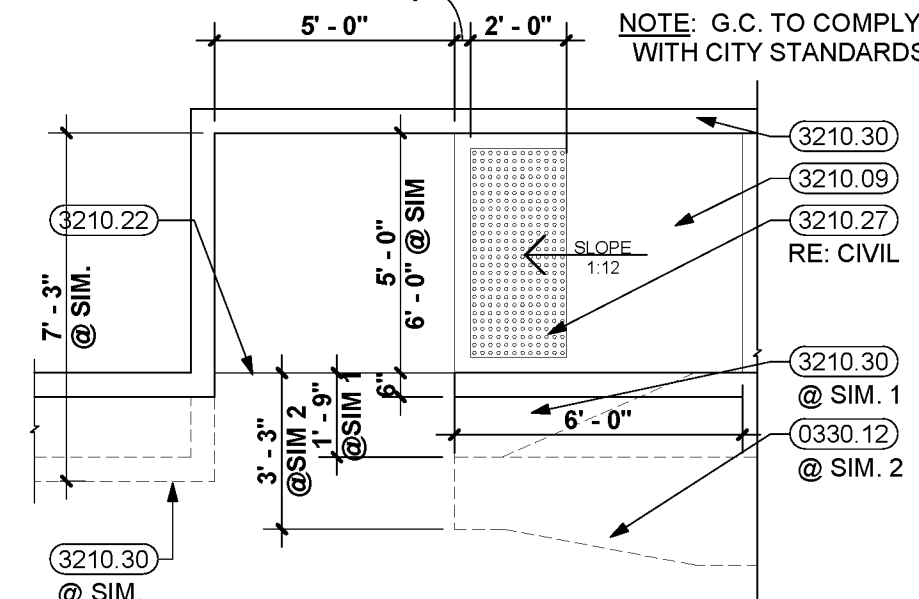
AS1.1
 ARCHITECTURAL SITE PLAN



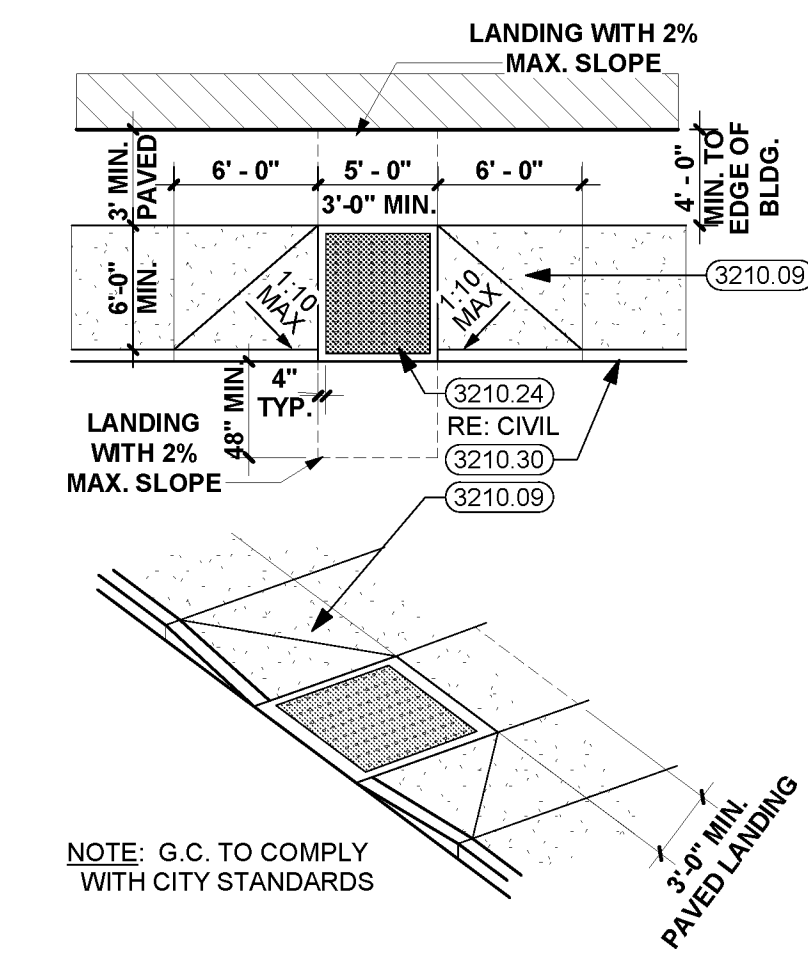
5 HC PAVEMENT MARKING
1/2" = 1'-0"



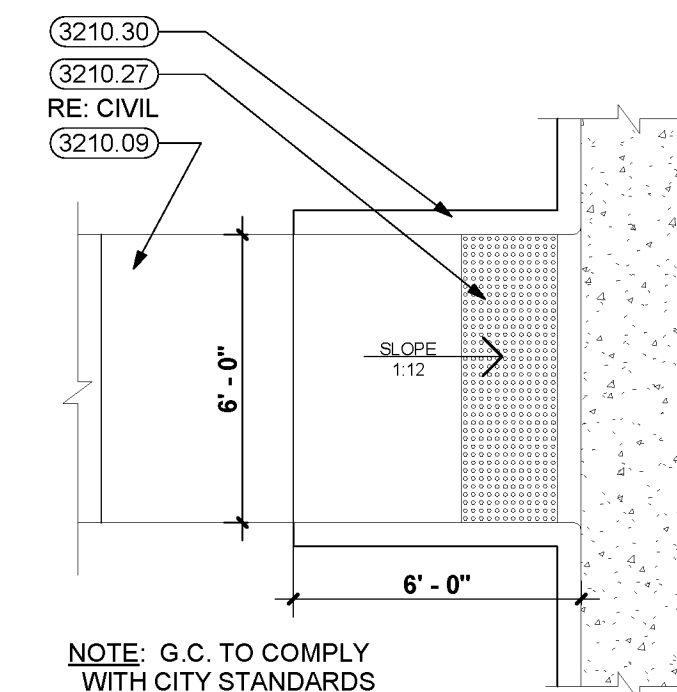
4 SITE RAMP SECTION
1/2" = 1'-0"



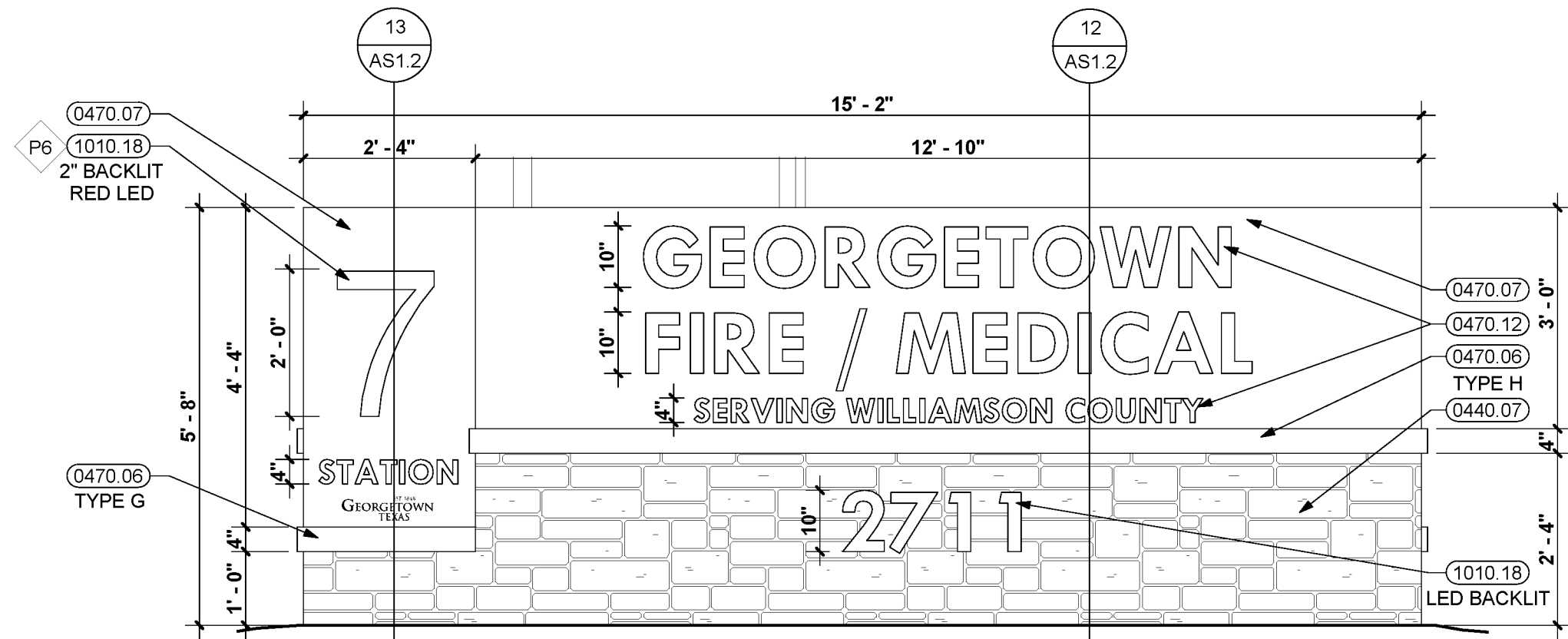
3 SITE RAMP PLAN
1/4" = 1'-0"



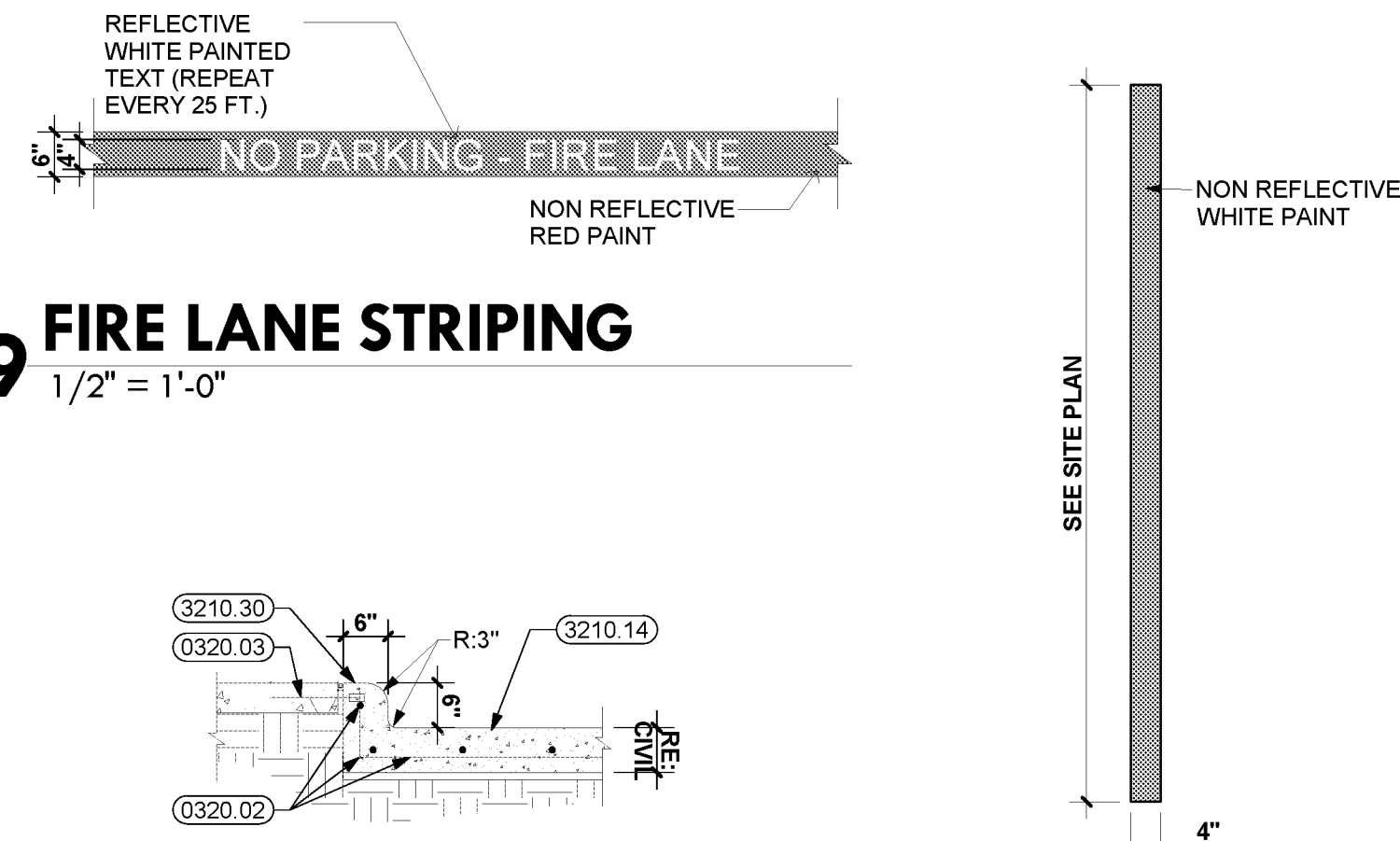
2 HC CURB RAMP
1/8" = 1'-0"



1 SITE RAMP PLAN
1/4" = 1'-0"



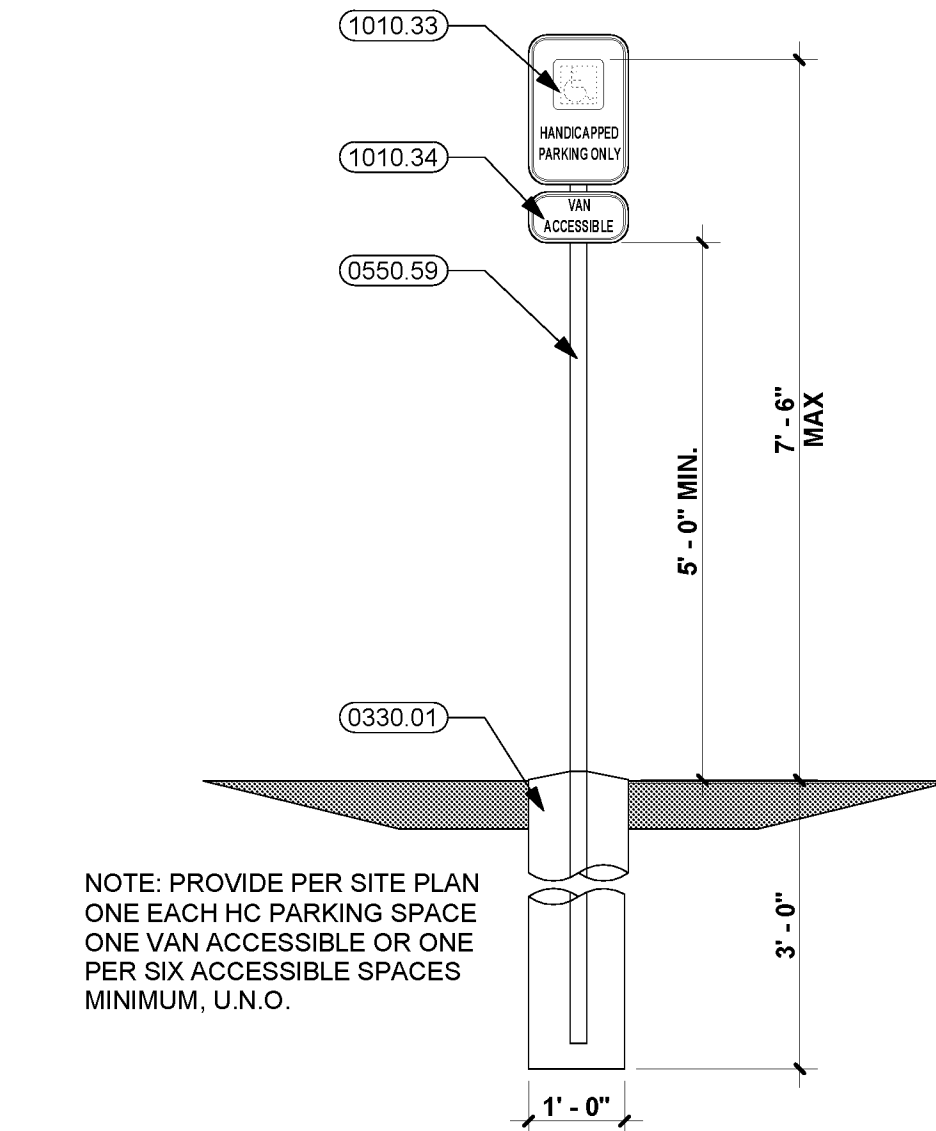
11 MONUMENT SIGN ELEVATION
1/2" = 1'-0"



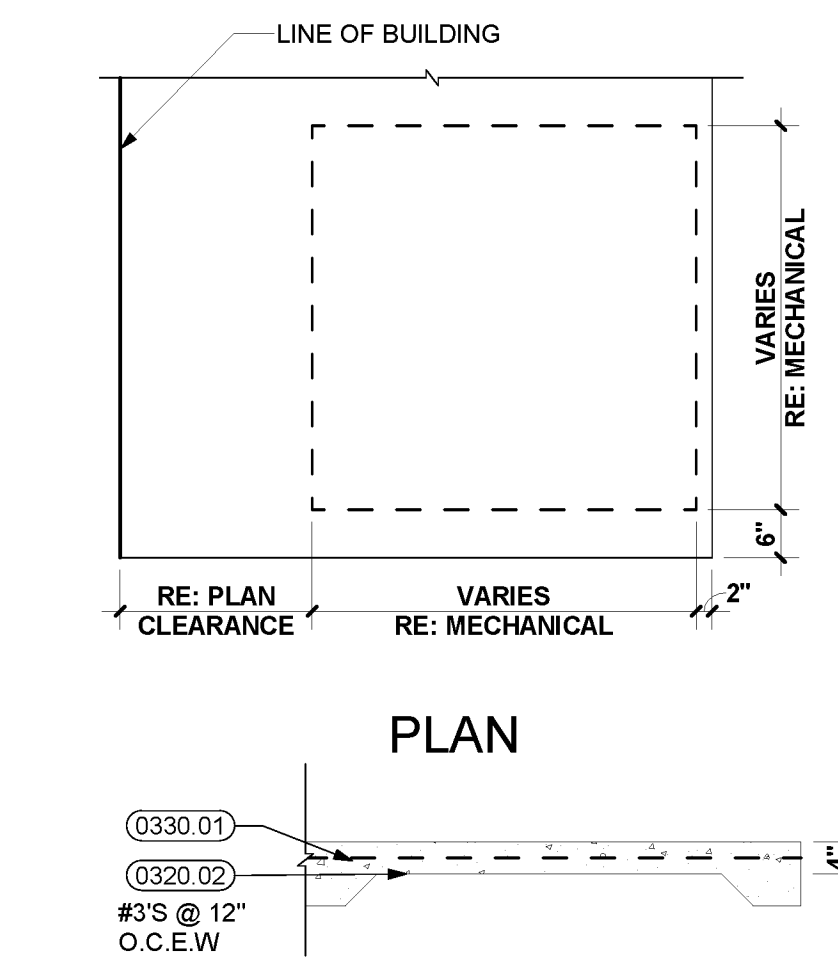
9 FIRE LANE STRIPING
1/2" = 1'-0"

10 CURB DETAIL
1/2" = 1'-0"

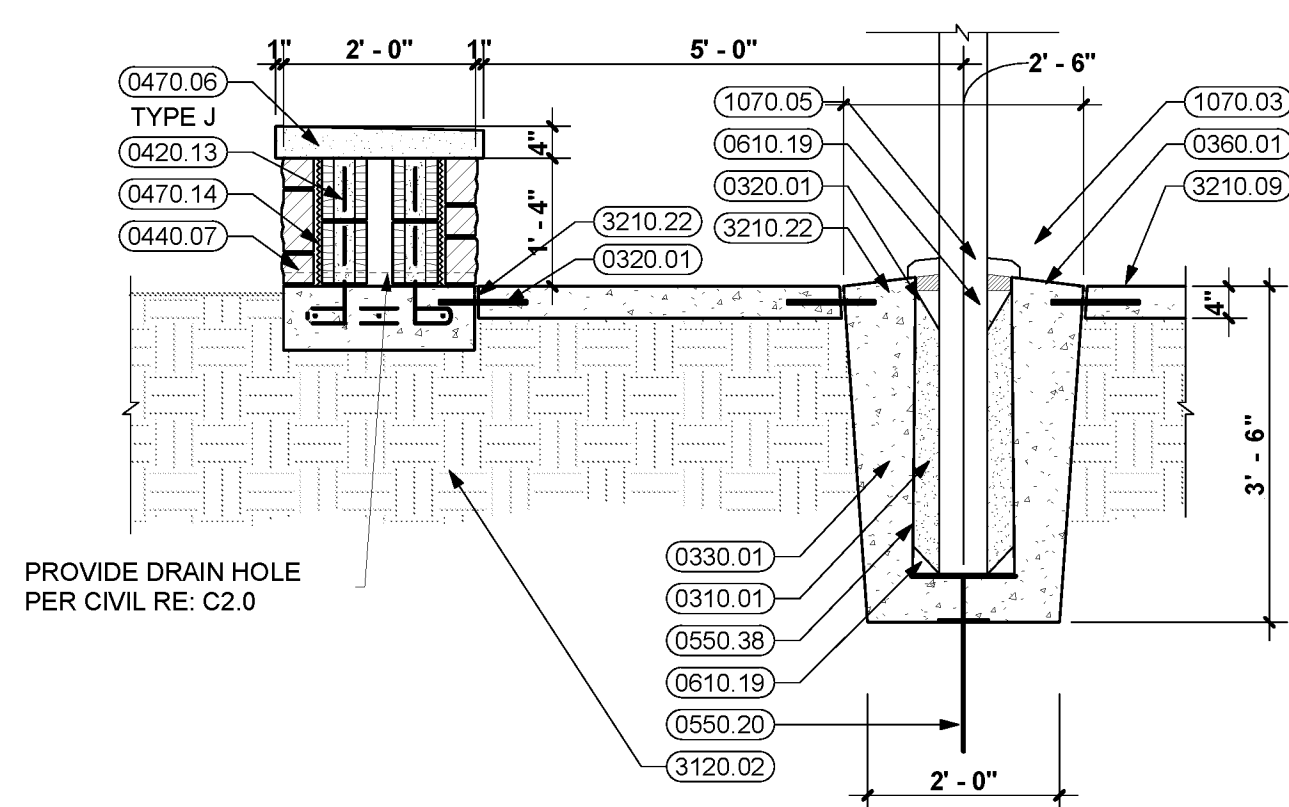
8 PAVEMENT MARKING
1/2" = 1'-0"



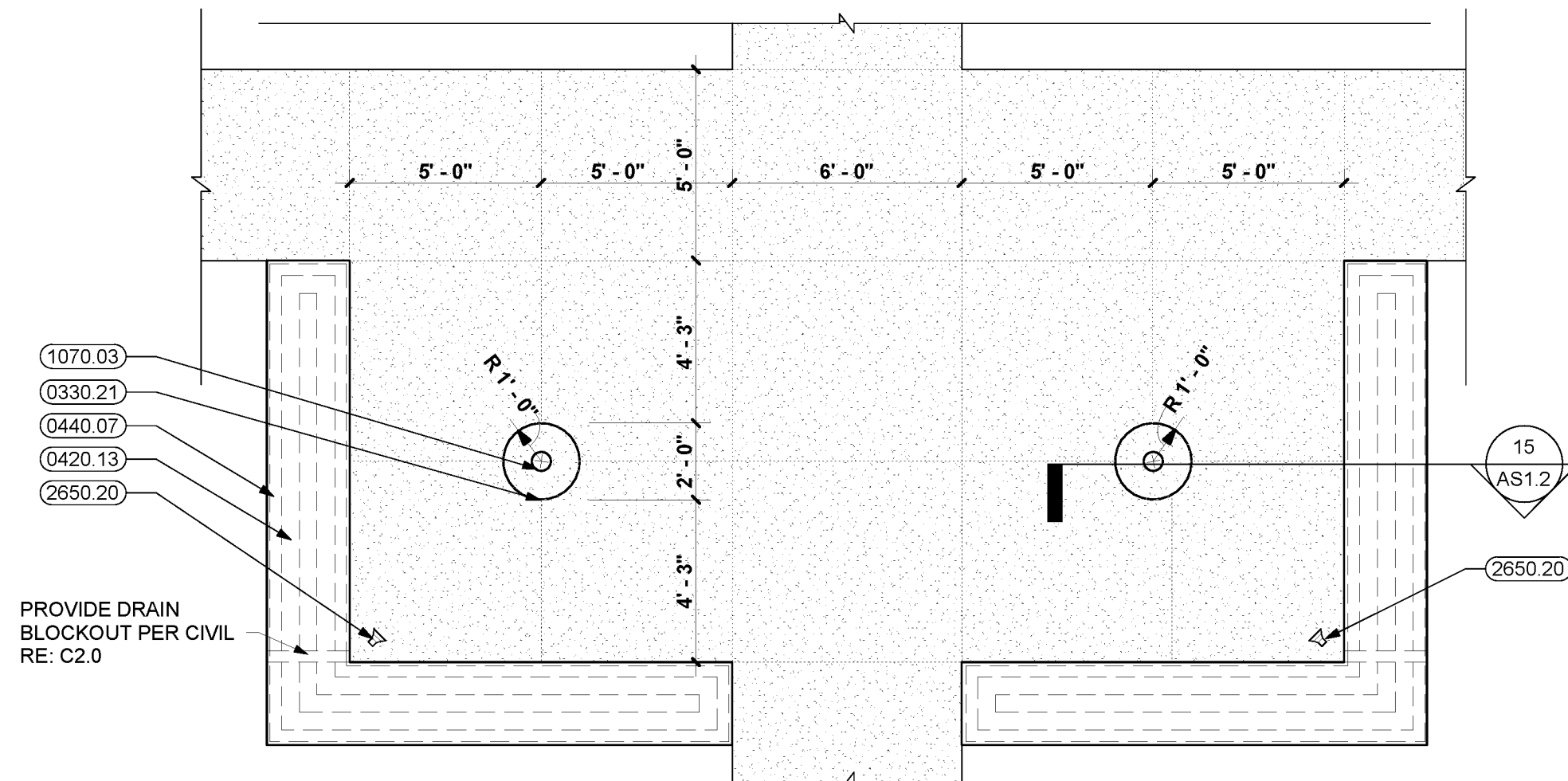
7 HC PARKING SIGNAGE
1/2" = 1'-0"



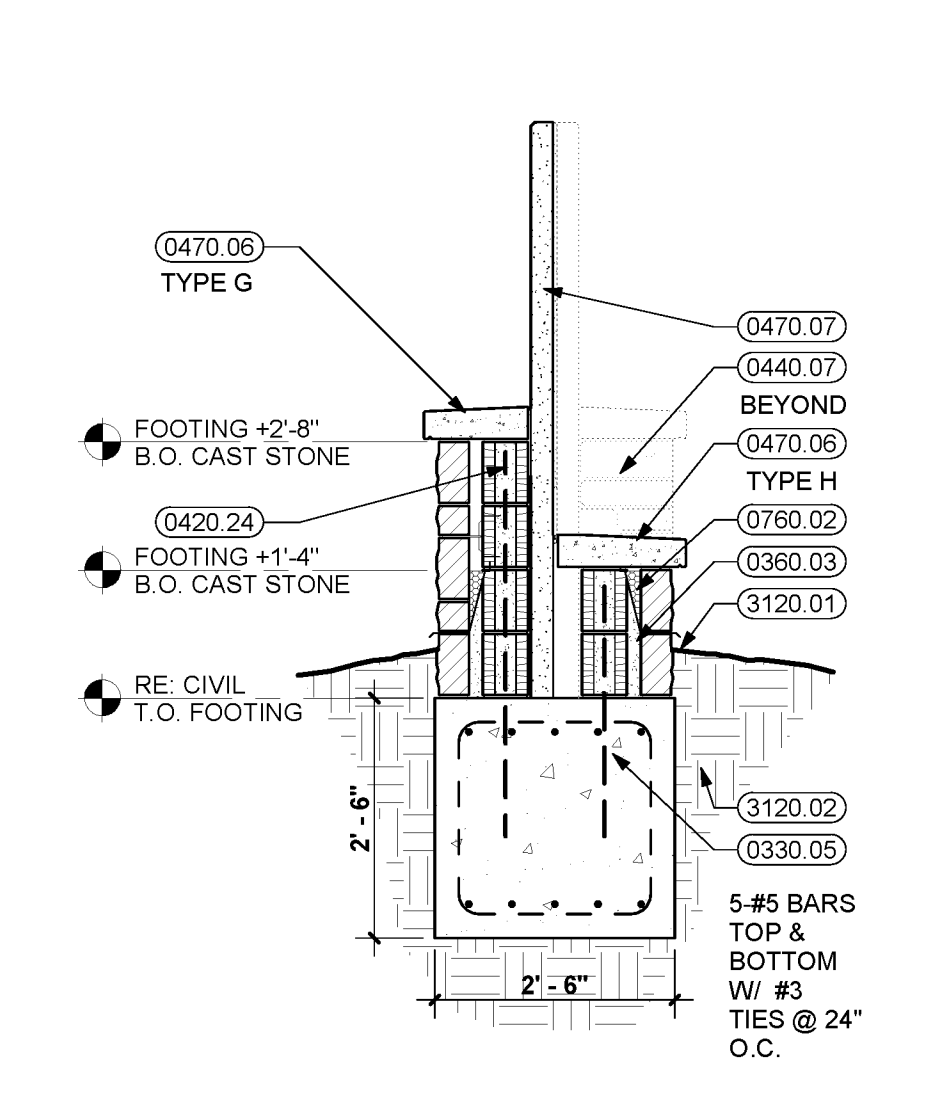
6 CONCRETE PAD DETAIL
1/2" = 1'-0"



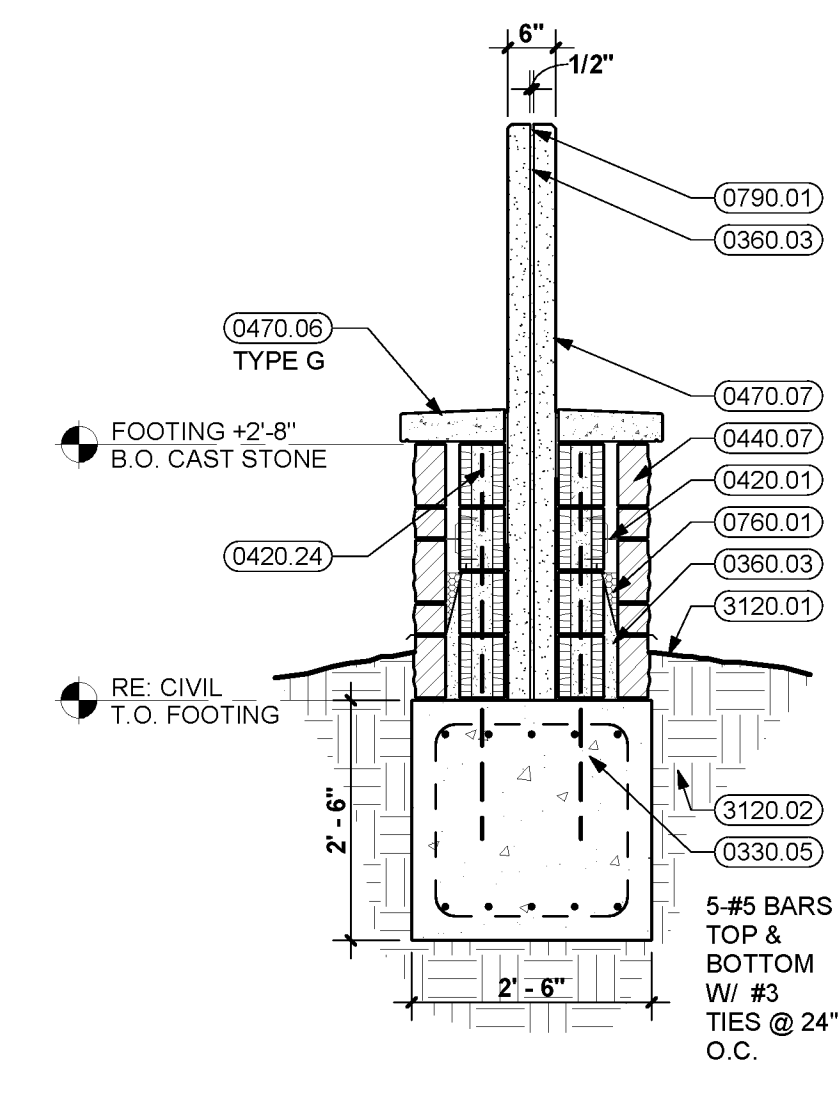
15 FLAG POLE / BENCH SECTION
1/2" = 1'-0"



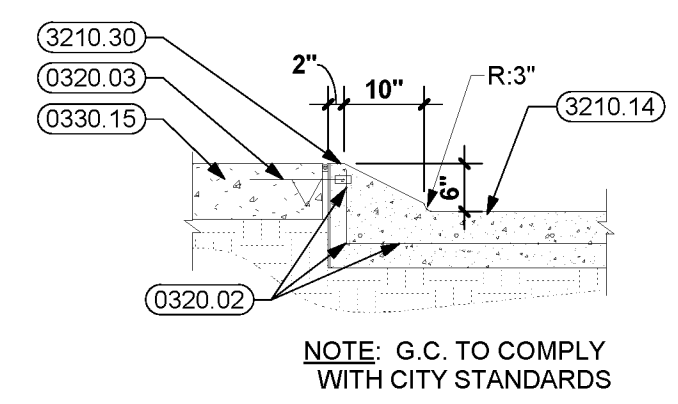
14 FLAG POLE/BENCH DETAIL
1/4" = 1'-0"



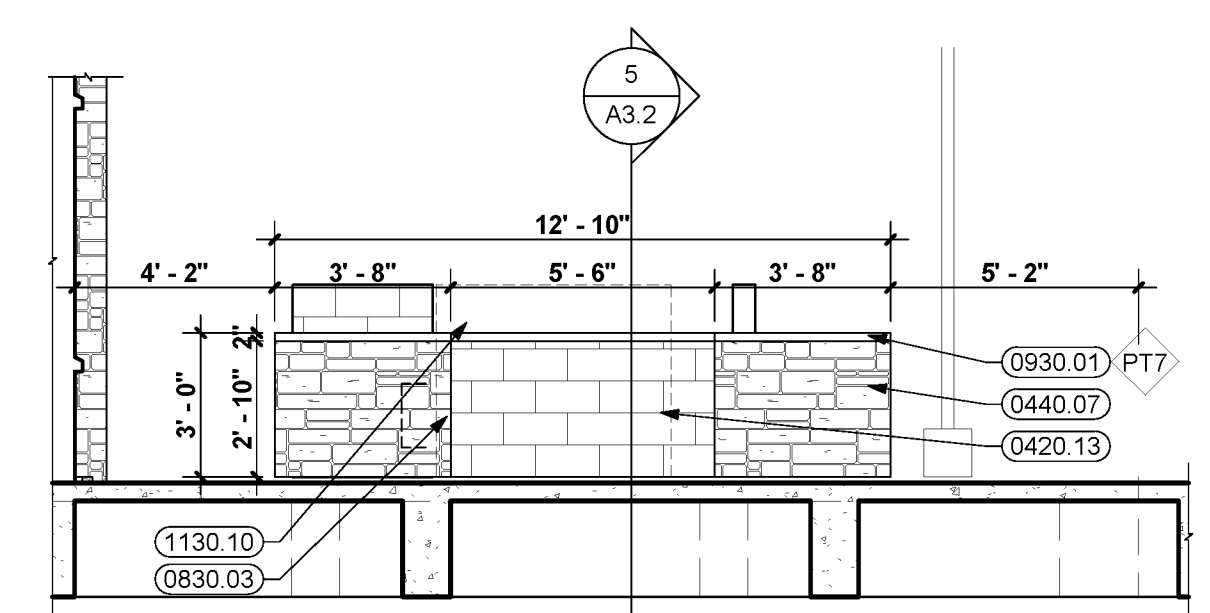
13 MONUMENT SIGN SECTION
1/2" = 1'-0"



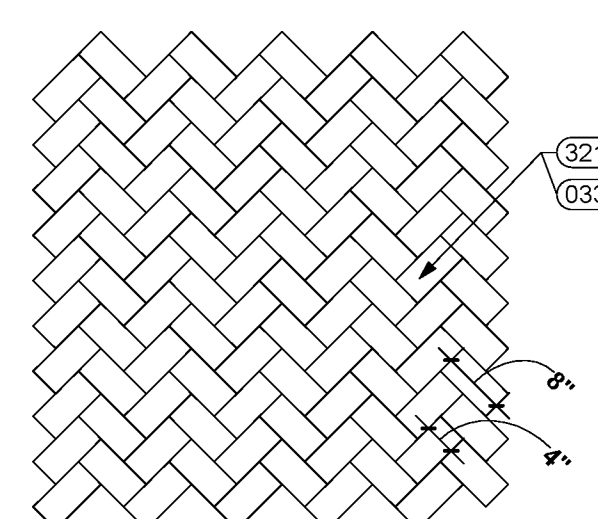
12 MONUMENT SIGN SECTION
1/2" = 1'-0"



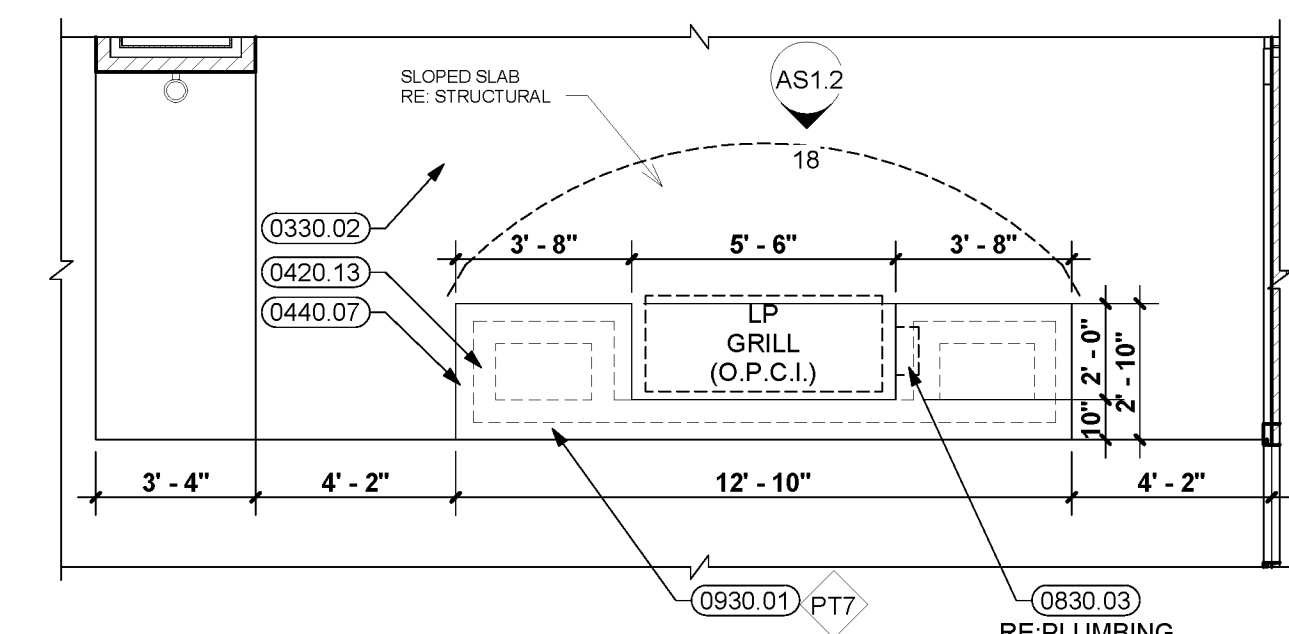
19 MOUNTABLE CURB DETAIL
1/2" = 1'-0"



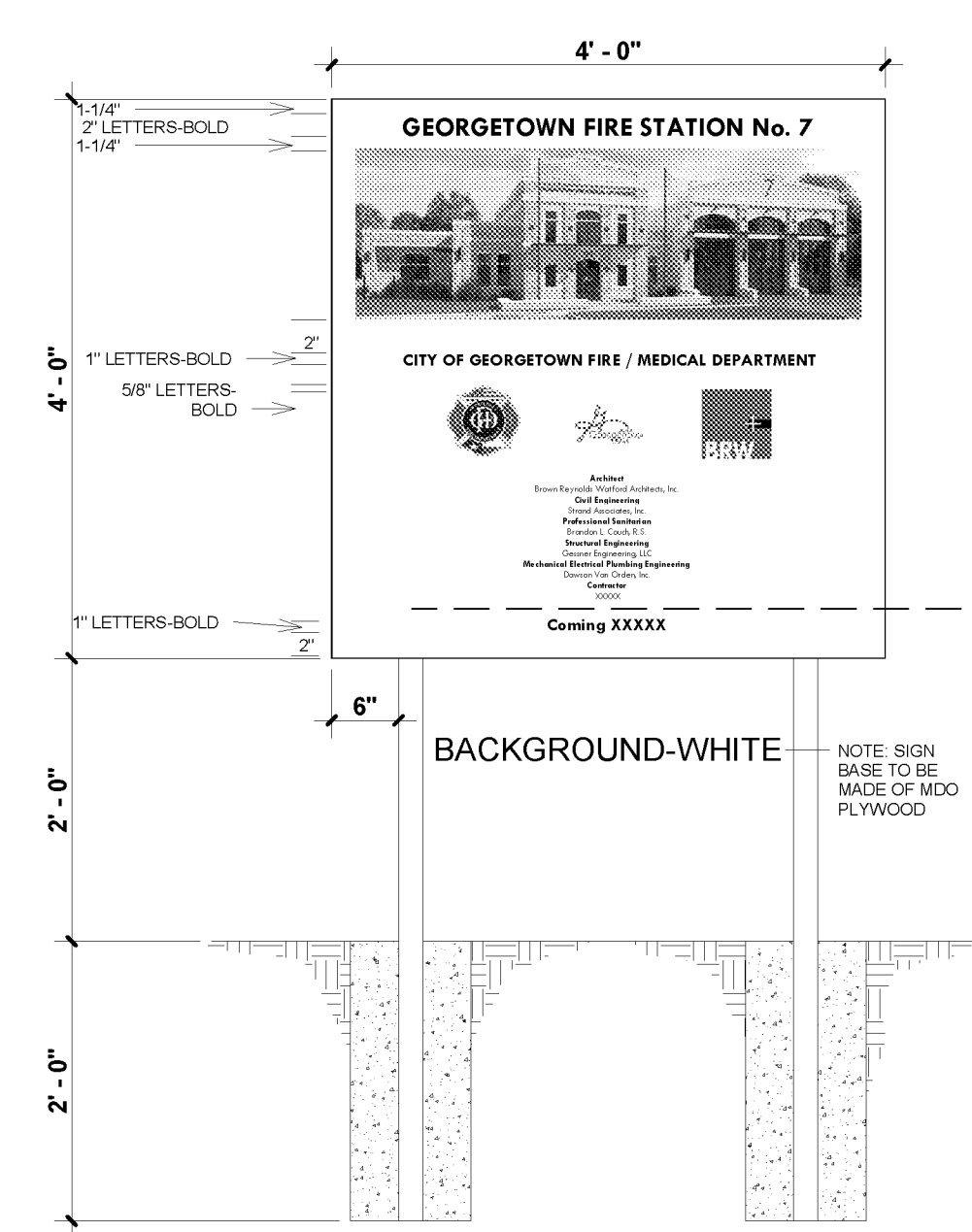
18 EXTERIOR ELEV.
1/4" = 1'-0"



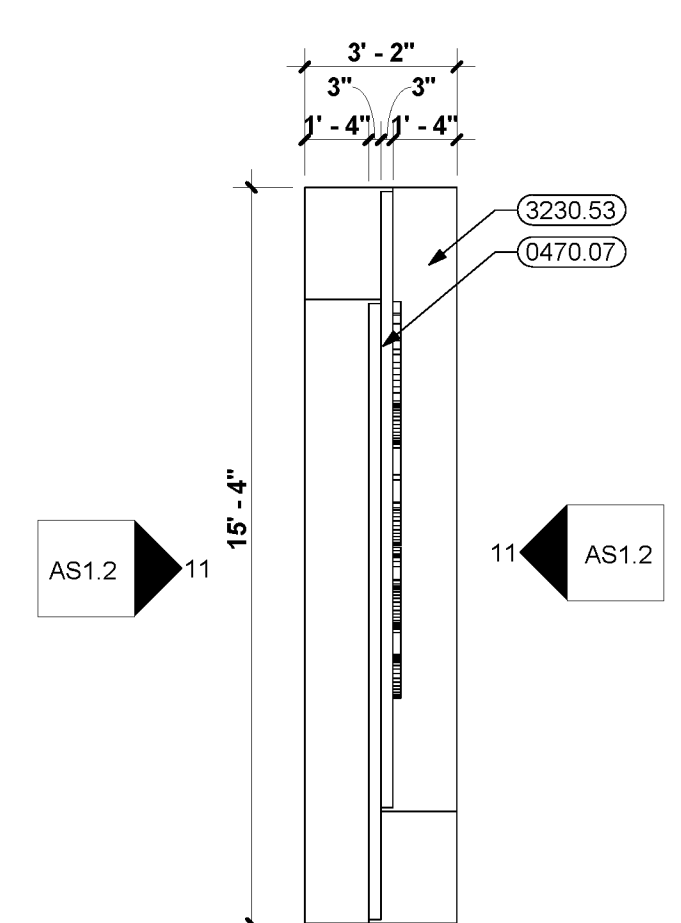
21 STAMPED CONCRETE DETAIL
1/2" = 1'-0"



20 ENLARGED SITE PLAN
1/4" = 1'-0"



17 CONSTRUCTION SIGN
3/4" = 1'-0"



16 MONUMENT SITE PLAN
1/4" = 1'-0"

KEYNOTES

- 0310.01 TAMPED, SCREEDED DRY SAND
- 0320.01 STEEL REINFORCING (RE: STRUCTURAL)
- 0320.02 DOWEL SLEEVE AND END CAP
- 0320.05 DOWEL
- 0330.01 CONCRETE (RE: STRUCTURAL)
- 0330.02 CONCRETE SLAB (RE: STRUCTURAL)
- 0330.05 CONCRETE GRADE BEAM (RE: STRUCTURAL)
- 0330.12 CONCRETE COLLARD
- 0330.15 STAINED CONCRETE
- 0330.21 CONCRETE EXPANSION JOINT - FILL W/ JOINT SEALER 1/4" BELOW SURFACE
- 0360.01 LEAD CALKING OVER WATERPROOF CEMENT GROUT
- 0360.03 FILL WITH GROUT
- 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
- 0420.13 6" CONCRETE MASONRY UNITS
- 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE: STRUCTURAL)
- 0440.07 STONE VENEER
- 0470.06 CAST STONE CAP - PIN BOLT CONNECTIONS
- 0470.07 RECESSED CAST LETTERING
- 0470.12 MORTAR BED ON METAL LATH
- 0470.14 12" STEEL PLATE WITH 3/4" DIAMETER LIGHTNING ARRESTOR SPIKE. EXTEND 2'-0" BELOW CONCRETE
- 0550.20
- 0550.38 PIPE SLEEVE
- 0550.59 HOT DIPPED GALVANIZED STEEL PIPE U-BRACKET CLAMP
- 0610.19 WOOD WEDGE
- 0760.01 THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.) AND MORTAR NET
- 0760.02 THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.)
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0830.03 WALL ACCESS PANEL
- 0930.01 CERAMIC TILE
- 1010.18 METAL LETTERING
- 1010.33 POLE MOUNTED SIGNAGE - "H.C. PARKING ONLY" (RE: 3AC1.2)
- 1010.34 POLE MOUNTED SIGNAGE - "VAN-ACCESSIBLE" (RE: 3AC1.2)
- 1070.03 GROUND-SET FLAGPOLE
- 1070.05 FLAGPOLE COLLAR
- 1130.10 OUTDOOR GAS GRILLE (O.P.C.I.)
- 2650.20 EXTERIOR LIGHT FIXTURE
- 3120.01 GRADE
- 3120.02 COMPACTED SELECT FILL
- 3120.09 4" CONCRETE SIDEWALK WITH #3'S AT 18" O.C.E.W.
- 3210.14 CONCRETE PAVING (RE: CIVIL)
- 3210.22 PAVING EXPANSION JOINT - FILL WITH JOINT SEALER 1/4" BELOW SURFACE
- 3210.24 PRE-CAST CONCRETE PAVING UNITS WITH TRUNCATED DOMES (ADA COMPLIANT)
- 3210.27 BRICK ADA WARNING PAVER
- 3210.30 8" CONCRETE CURB (WITH GUTTER AS REQUIRED) (RE: CIVIL)
- 3230.53 MONUMENT SIGN
- 3290.09 BEDDING SAND
- 3340.17 GEOTEXTILE TURN UP AT SIDES TO COVER PAVERS

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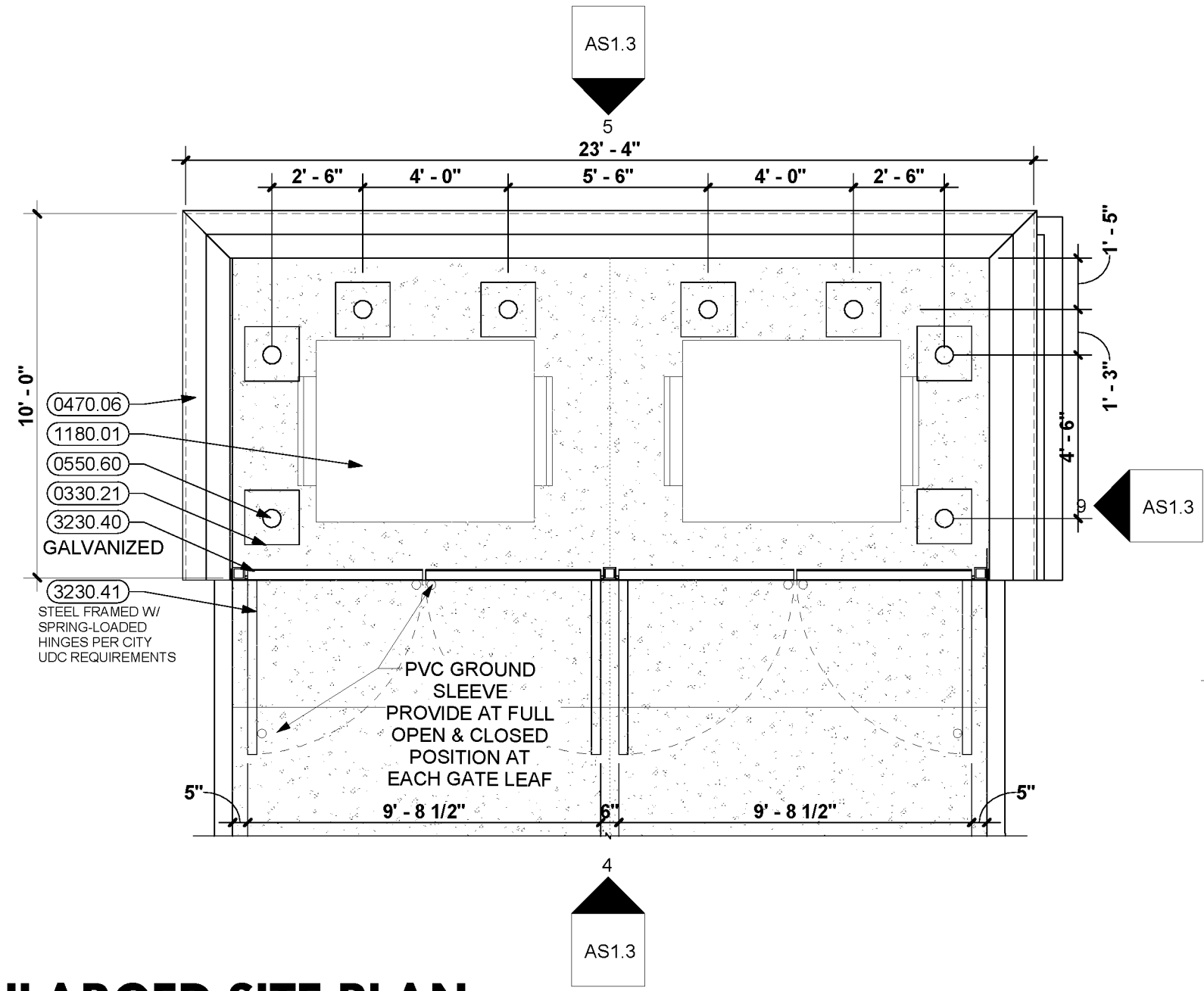
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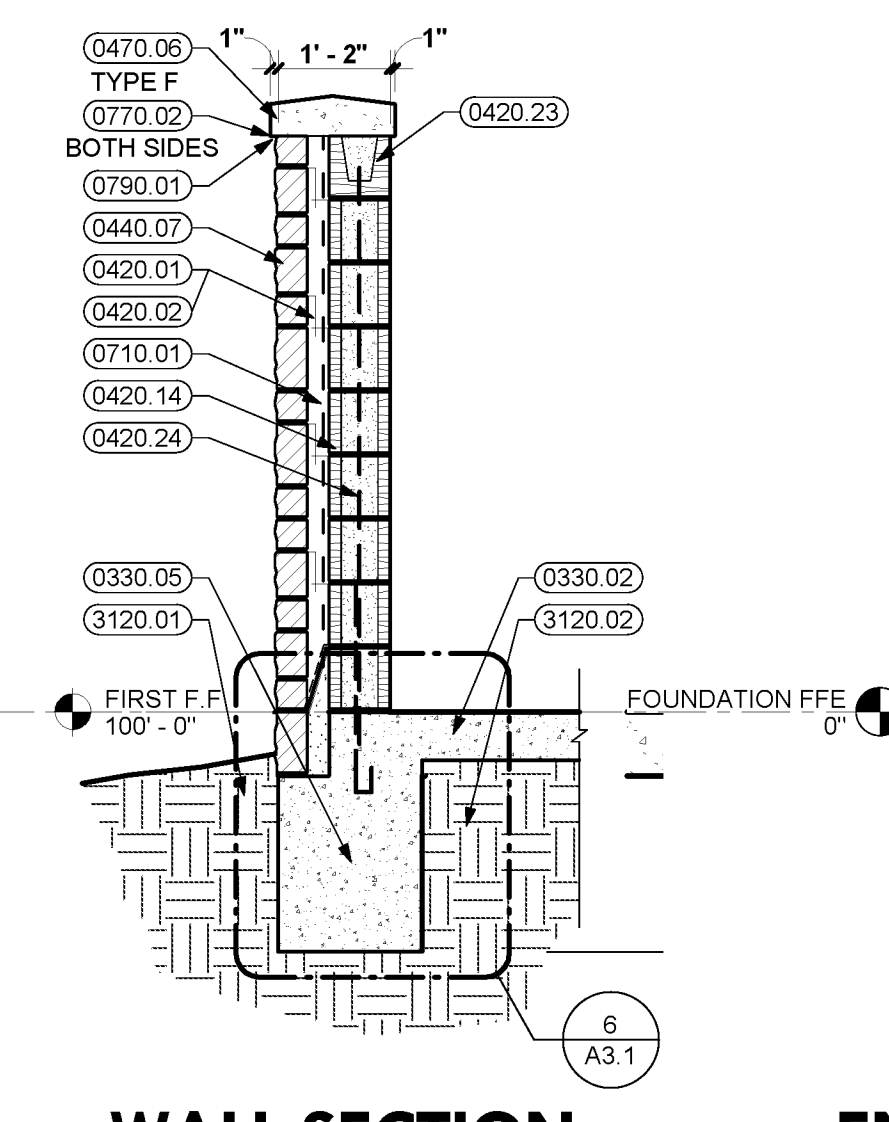
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FIRE STATION No. 7
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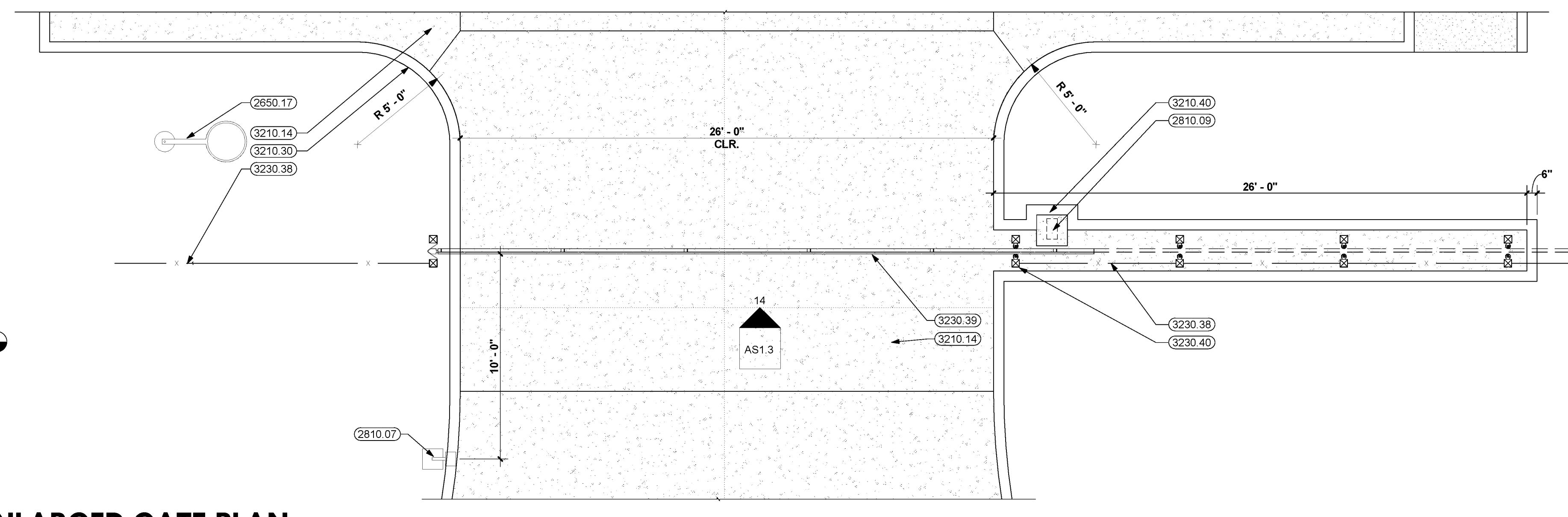
AS1.2
ARCHITECTURAL SITE DETAILS



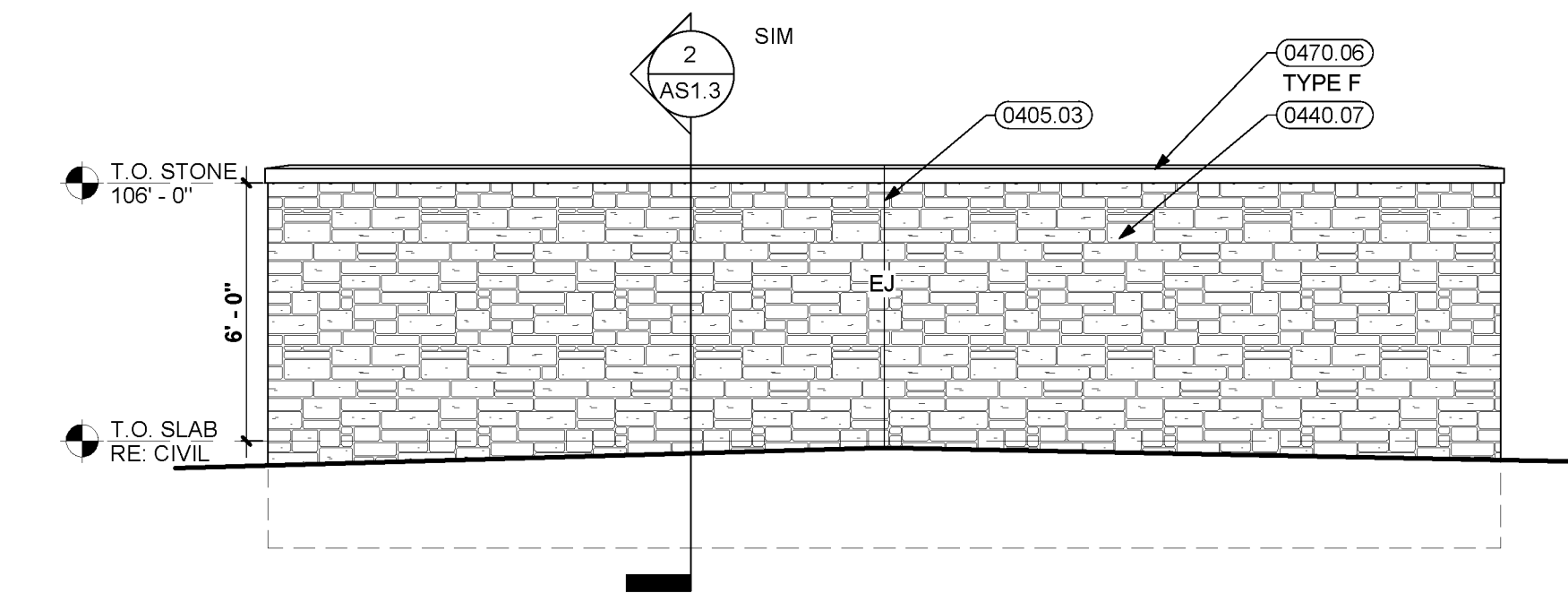
3 ENLARGED SITE PLAN
1/4" = 1'-0"



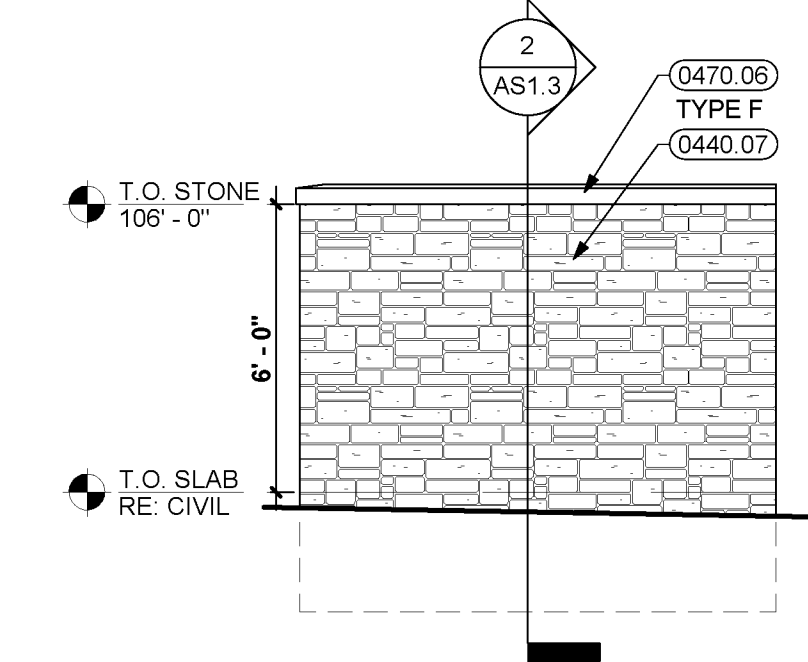
2 WALL SECTION
1/2" = 1'-0"



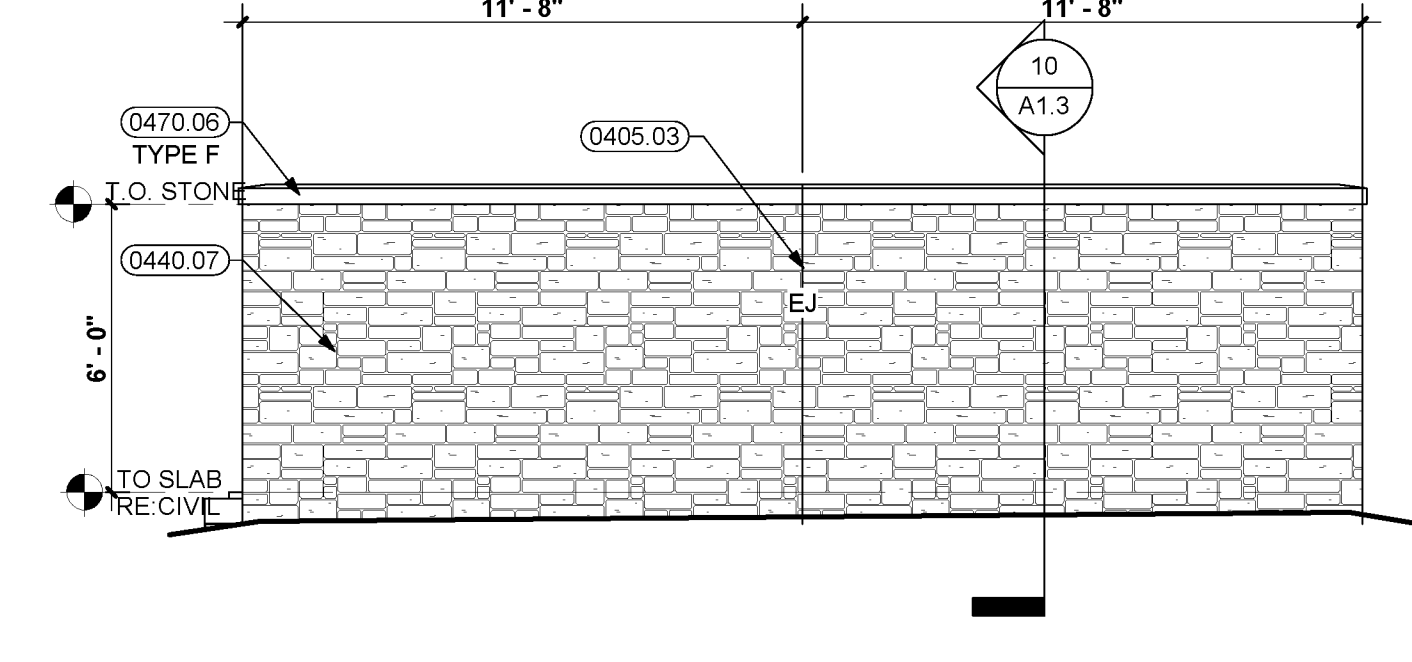
1 ENLARGED GATE PLAN
1/4" = 1'-0"



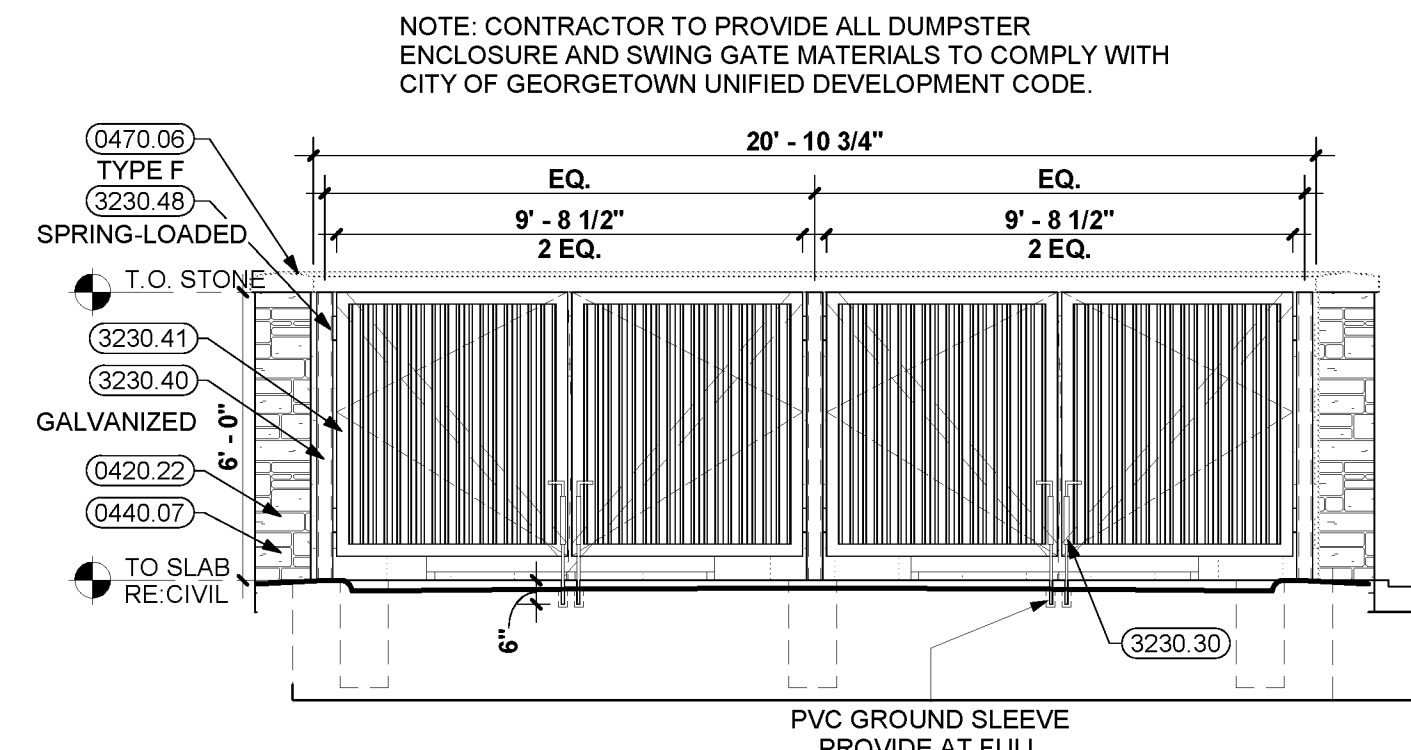
7 EXTERIOR ELEVATION (SOUTH)
1/4" = 1'-0"



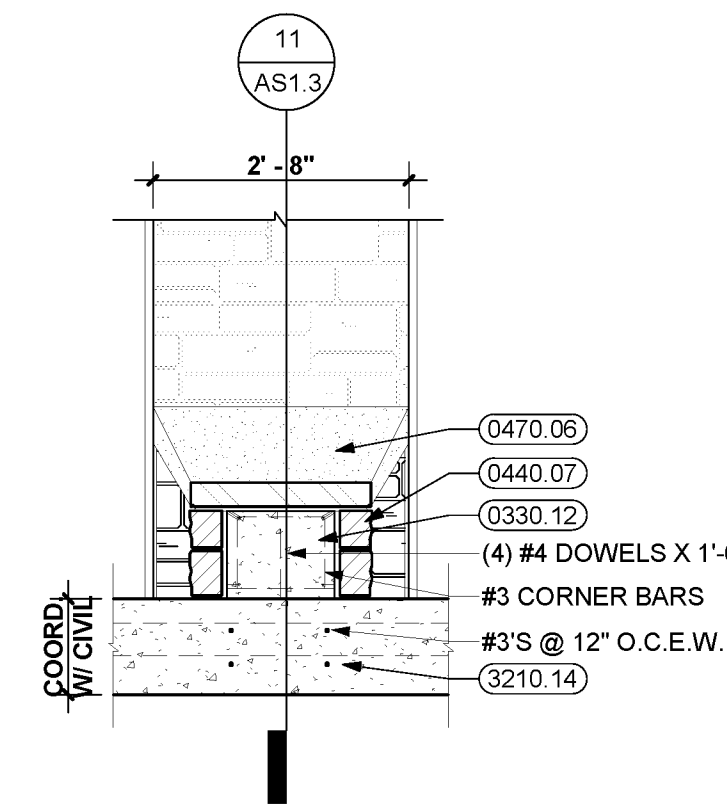
6 EXTERIOR ELEVATION (EAST/WEST O.H.)
1/4" = 1'-0"



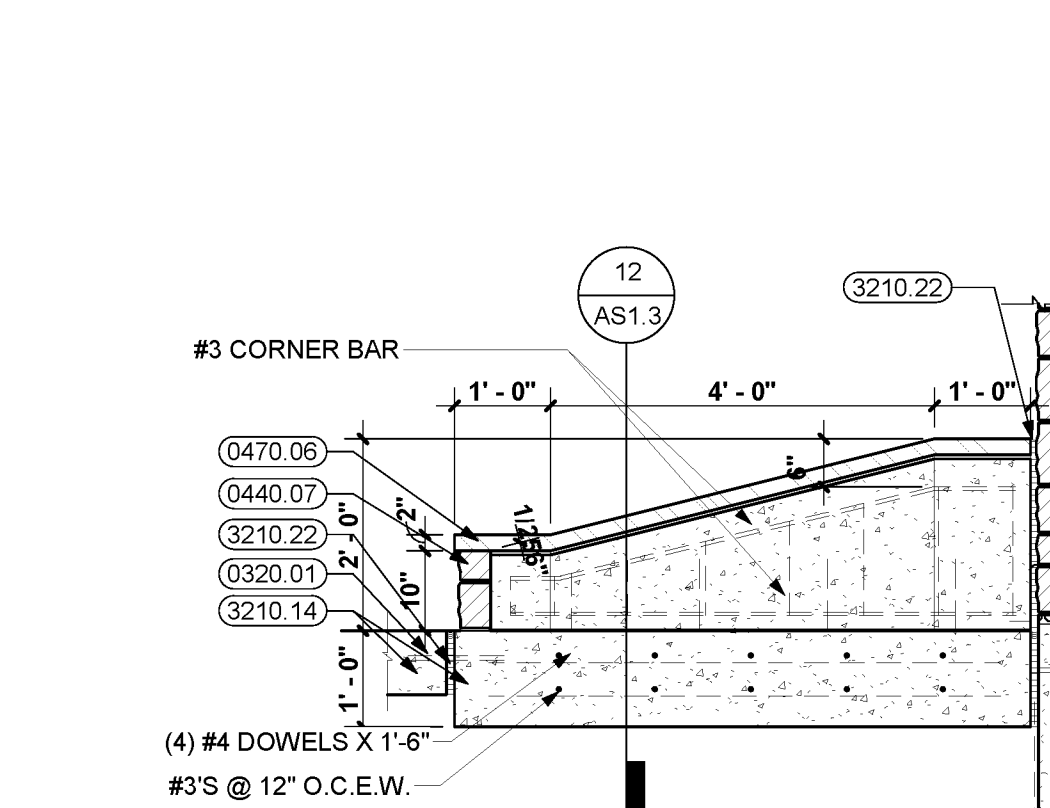
5 EXTERIOR ELEV. (NORTHEAST)
1/4" = 1'-0"



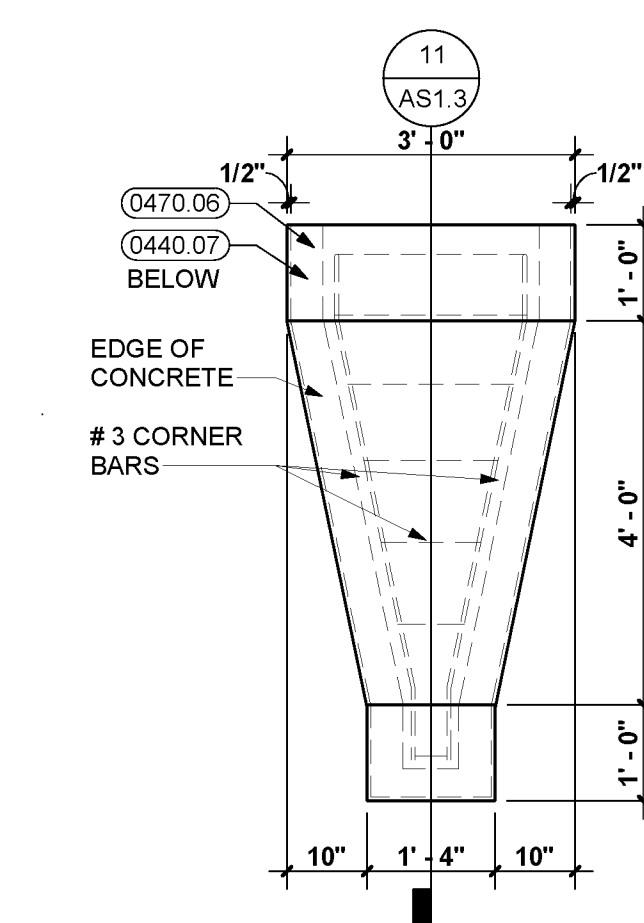
4 EXTERIOR ELEV. (SOUTHEAST)
1/4" = 1'-0"



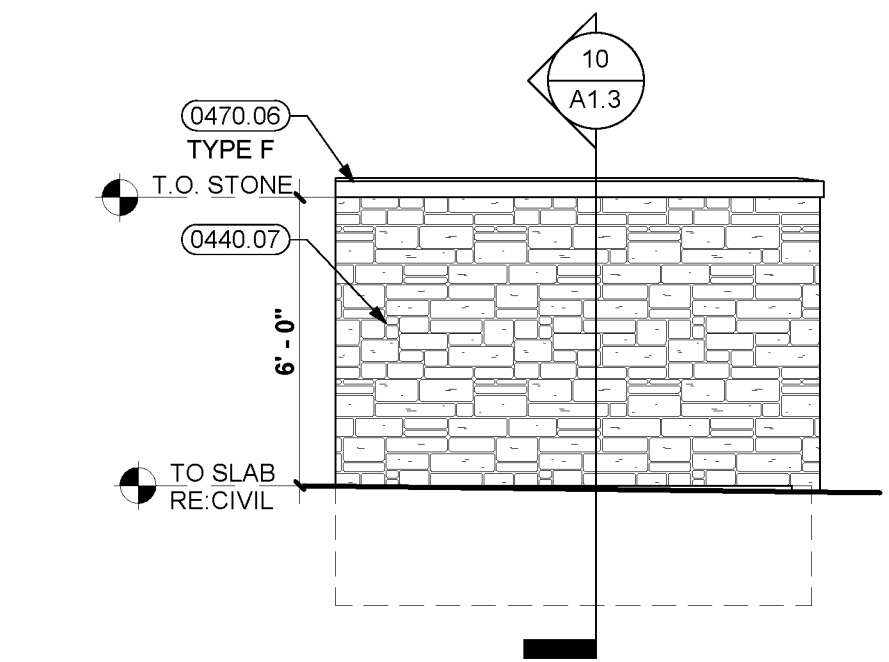
12 BOLLARD DETAIL
1/2" = 1'-0"



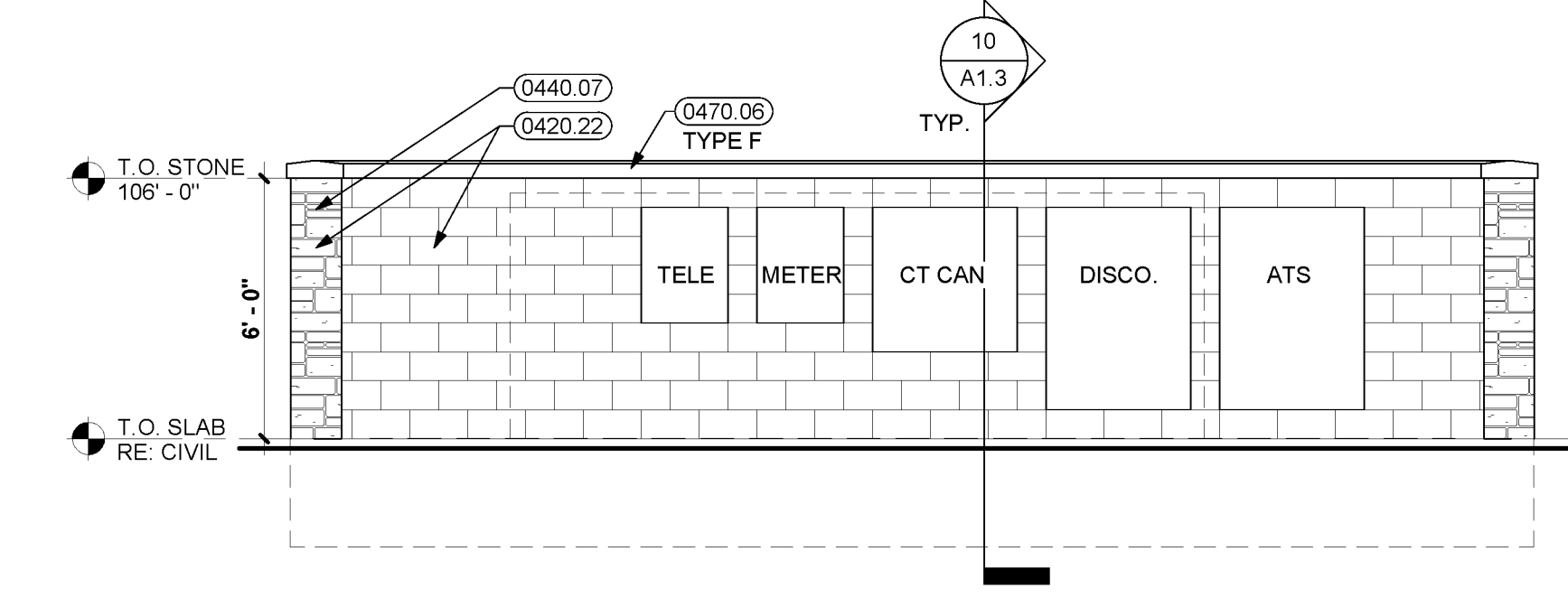
11 BOLLARD DETAIL
1/2" = 1'-0"



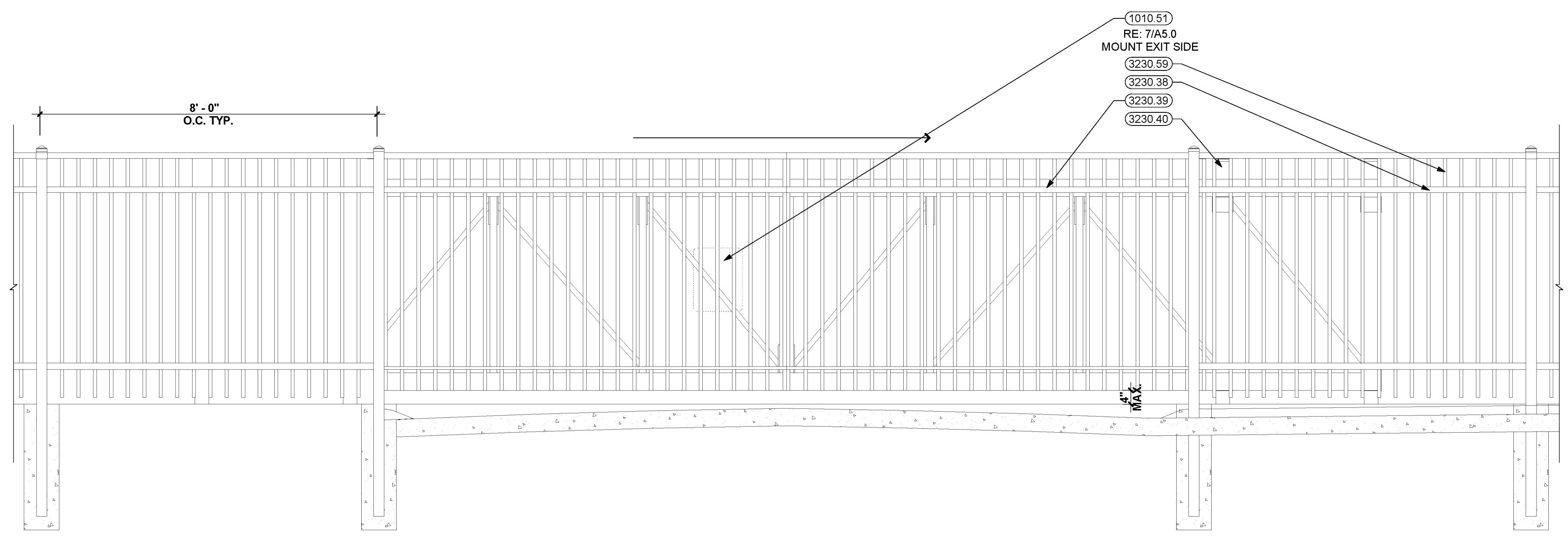
10 BOLLARD DETAIL
1/2" = 1'-0"



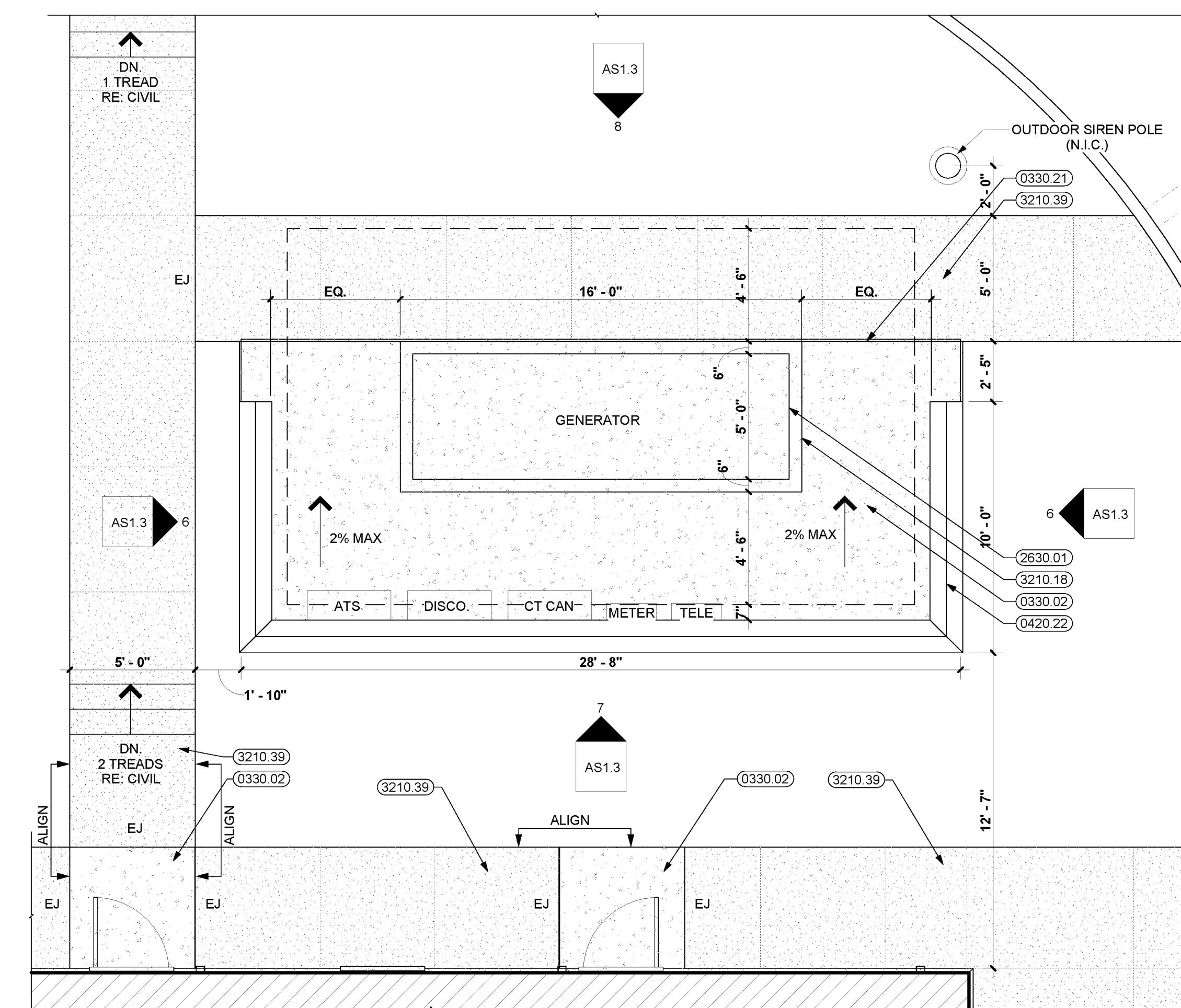
9 EXTERIOR ELEV. (SOUTHWEST)
1/4" = 1'-0"



8 EXTERIOR ELEVATION (NORTH)
1/4" = 1'-0"

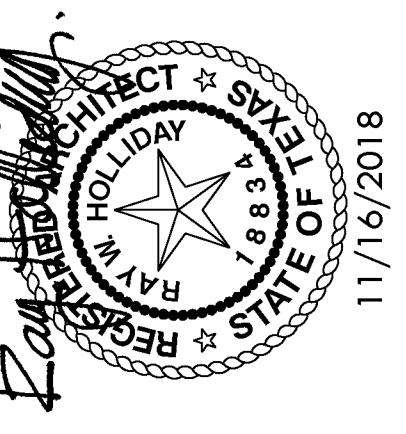


14 GATE & FENCE ELEV. - SINGLE CANTILEVER
1/2" = 1'-0"

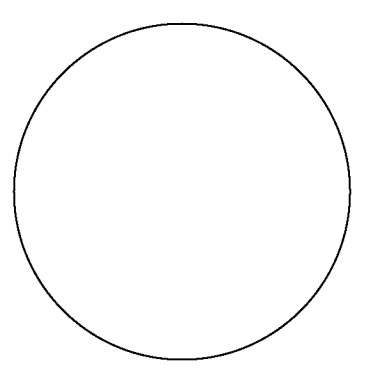


13 ENLARGED SITE PLAN
1/4" = 1'-0"

- KEYNOTES**
- 0320.01 DOWEL INTO CONCRETE SLAB
 - 0330.02 CONCRETE SLAB (RE: STRUCTURAL)
 - 0330.05 CONCRETE GRADE BEAM (RE: STRUCTURAL)
 - 0330.12 CONCRETE BOLLARD
 - 0330.21 CONCRETE EXPANSION JOINT - FILL W/ JOINT SEALER 1/4" BELOW SURFACE
 - 0405.03 MASONRY EXPANSION JOINT
 - 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
 - 0420.02 HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
 - 0420.14 8" CONCRETE MASONRY UNITS
 - 0420.22 STONE / CONCRETE MASONRY UNIT SCREEN WALL WITH HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
 - 0420.23 CONCRETE MASONRY BOND BEAM
 - 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE: STRUCTURAL)
 - 0440.07 STONE VENEER
 - 0470.06 CAST STONE CAP - PIN BOLT CONNECTIONS
 - 0550.60 6" GALVANIZED STEEL PIPE BOLLARD- FILL WITH CONCRETE
 - 0710.01 BITUMINOUS DAMPPROOFING
 - 0770.02 CONTINUOUS CLEAT
 - 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
 - 1010.51 GATE MOUNTED SIGNAGE - "PULL FORWARD TO LINE TO ACTIVATE GATE"
 - 1180.01 DUMPSTER (N.I.C.)
 - 2630.01 EMERGENCY GENERATOR
 - 2650.17 LIGHT POLE / FIXTURE ON CONCRETE BASE
 - 2810.07 PARKING KEYPAD / CARD ACCESS CONTROL ON METAL STANCHION
 - 2810.09 SLIDING GATE OPERATOR
 - 3120.01 GRADE
 - 3120.02 COMPACTED SELECT FILL
 - 3210.14 CONCRETE PAVING (RE: CIVIL)
 - 3210.18 CONCRETE GENERATOR PAD
 - 3210.22 PAVING EXPANSION JOINT - FILL WITH JOINT SEALER 1/4" BELOW SURFACE
 - 3210.30 6" CONCRETE CURB (WITH GUTTER AS REQUIRED) (RE: CIVIL)
 - 3210.39 CONCRETE SIDEWALK (RE: CIVIL)
 - 3210.40 CONCRETE GATE OPERATOR PAD
 - 3230.30 1" PLUNGER ROD AND GUIDE
 - 3230.38 DECORATIVE METAL FENCE
 - 3230.39 DECORATIVE METAL GATE
 - 3230.40 4" X 4" STEEL TUBE POST
 - 3230.41 GALVANIZED TUBE STEEL GATE WITH FIXED LOUVERS
 - 3230.48 HEAVY DUTY METAL HINGES
 - 3230.59 1" SQUARE PICKET WITH CLOSED TOP AT 4 1/2" O.C.



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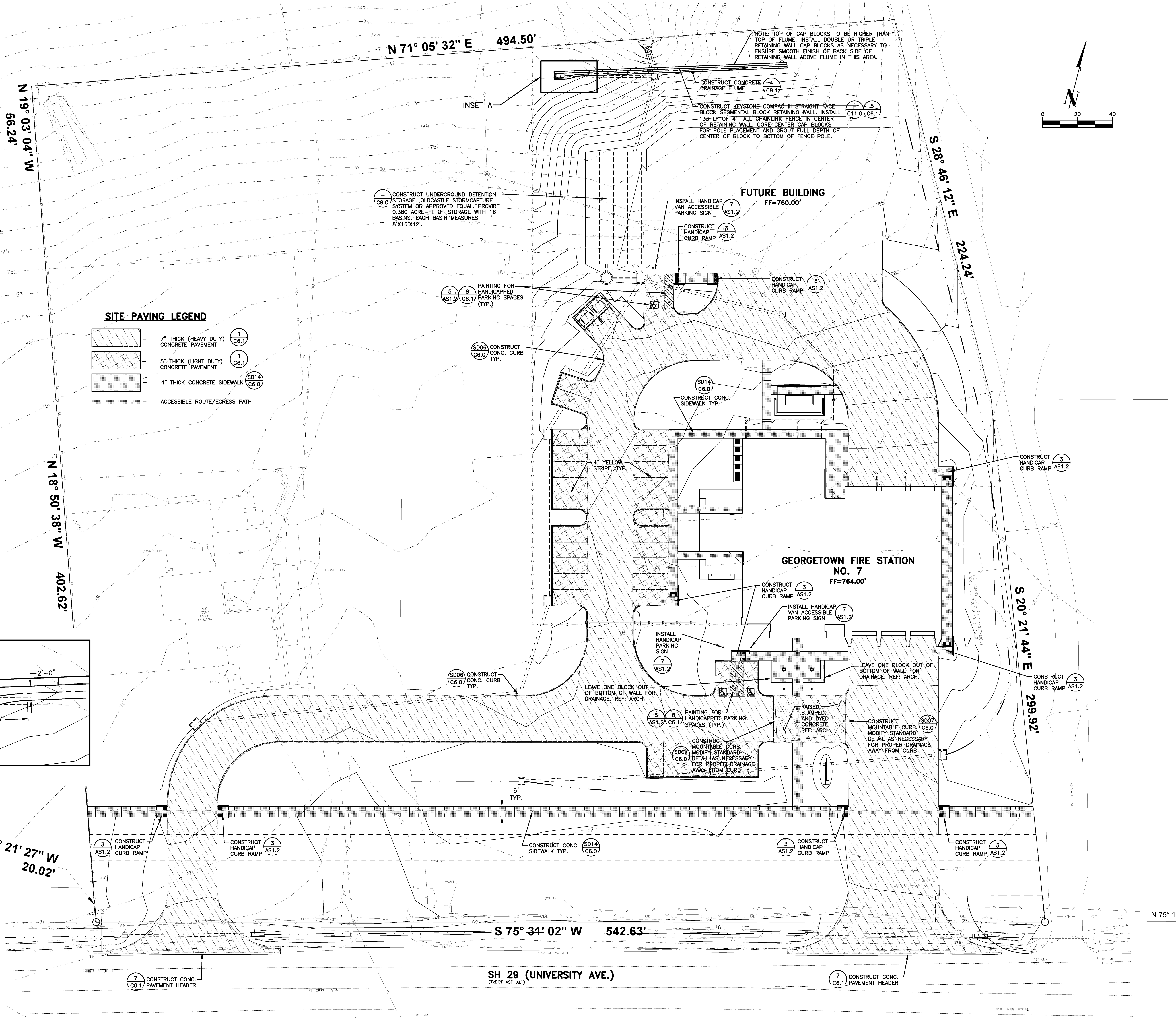
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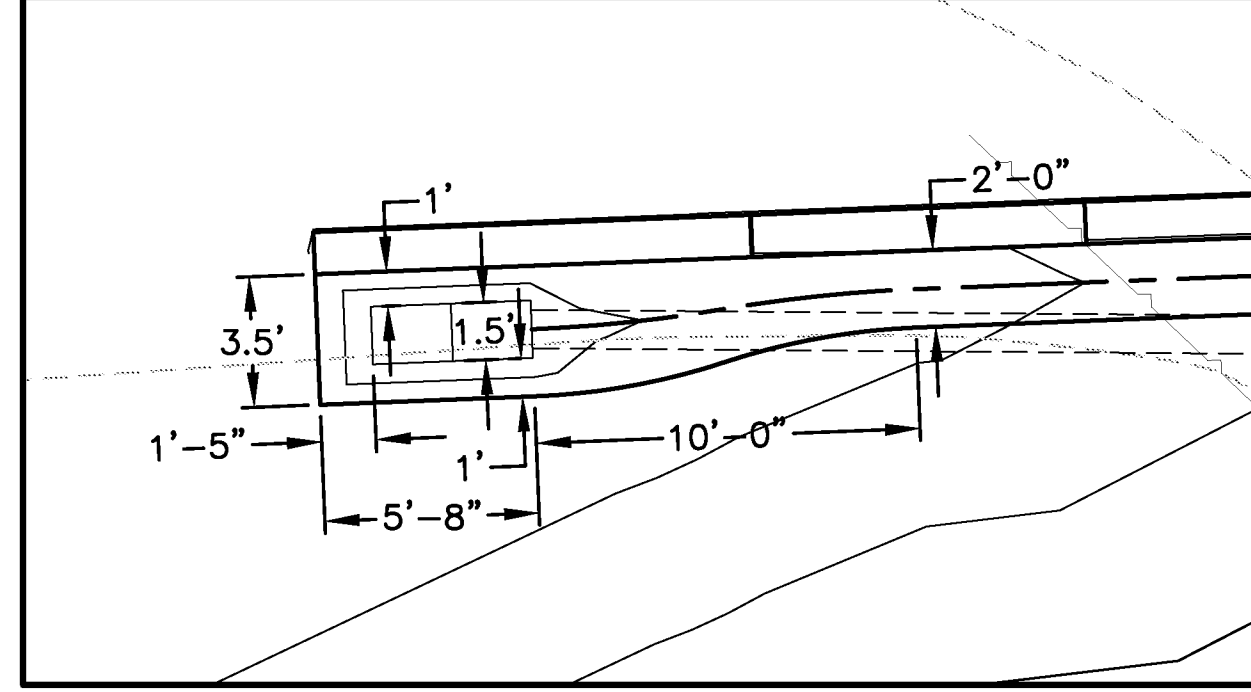
AS1.3

ARCHITECTURAL SITE DETAILS



SITE PAVING LEGEND

	7" THICK (HEAVY DUTY) CONCRETE PAVEMENT (1 C6.1)
	5" THICK (LIGHT DUTY) CONCRETE PAVEMENT (1 C6.1)
	4" THICK CONCRETE SIDEWALK (SD14 C6.0)
	ACCESSIBLE ROUTE/EGRESS PATH



INSET A

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 SUITE 4000
 HOUSTON, TEXAS 77045
 713.664.1791
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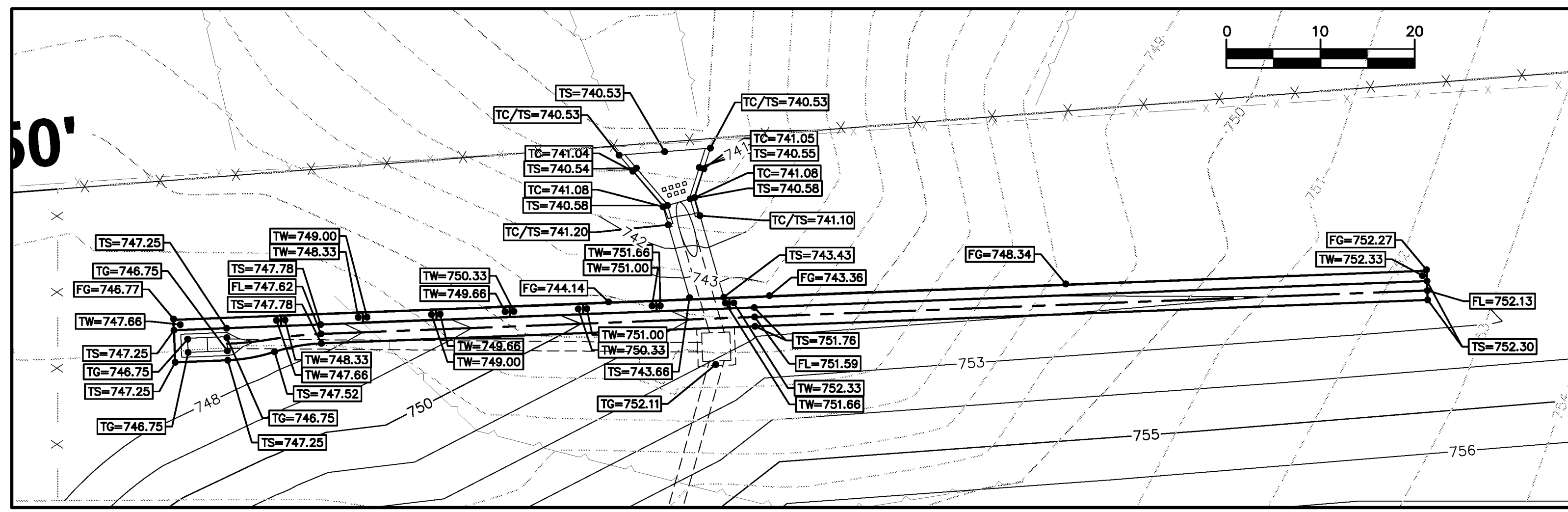
STRAND ASSOCIATES
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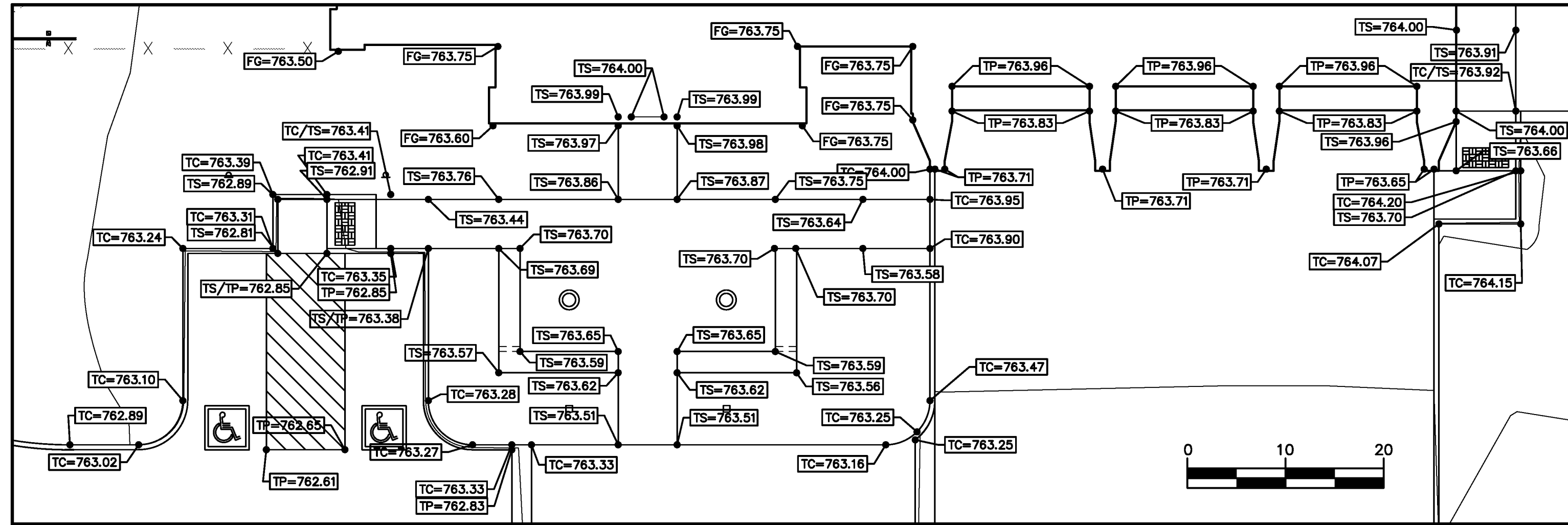
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 FIRE STATION No. 7**
 2703 EAST STATE HIGHWAY 29
 GEORGETOWN, TX 78626

NO.	REVISION	DATE

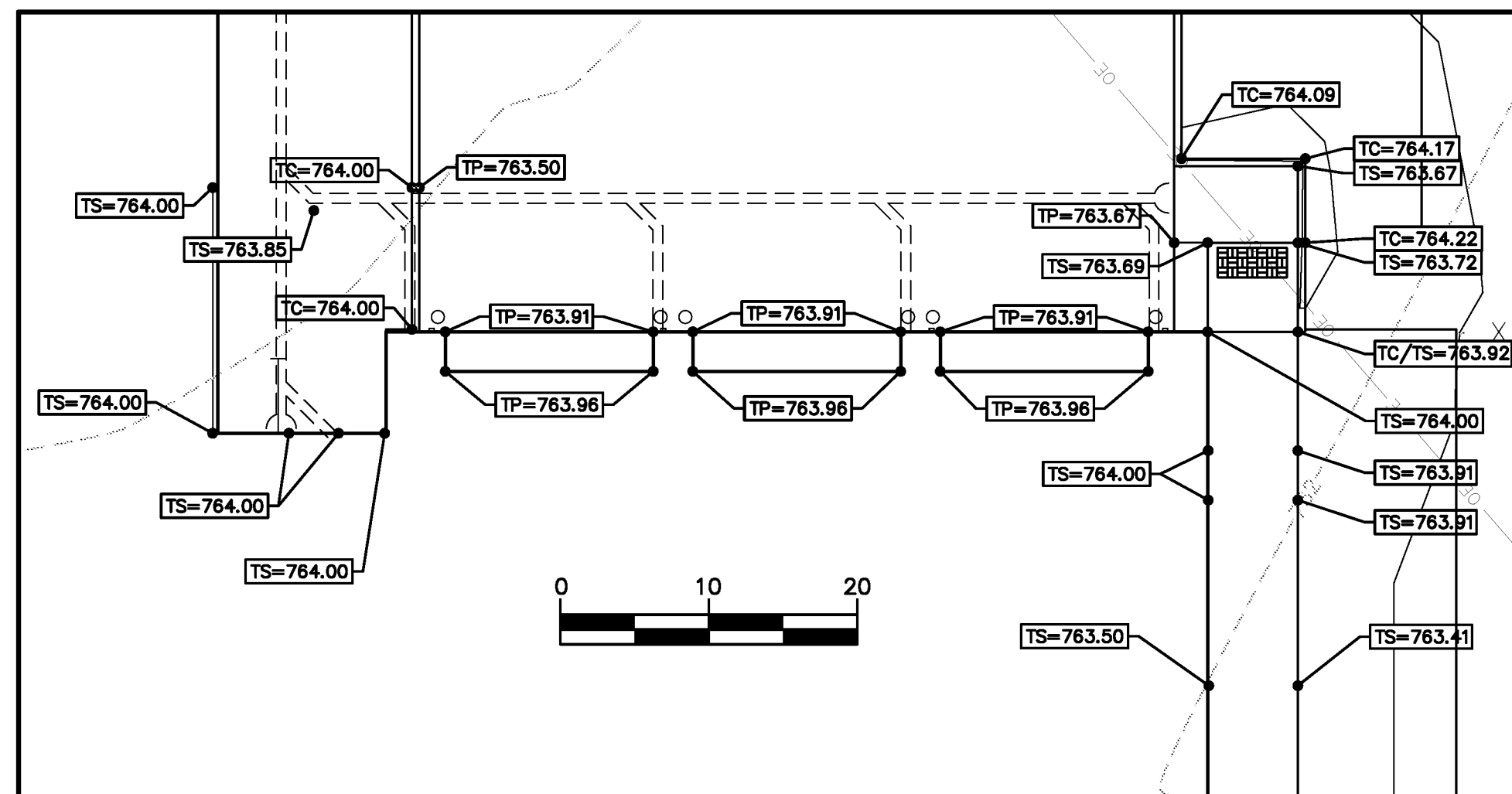
C2.0
 SITE PAVING PLAN



INSET A



INSET B



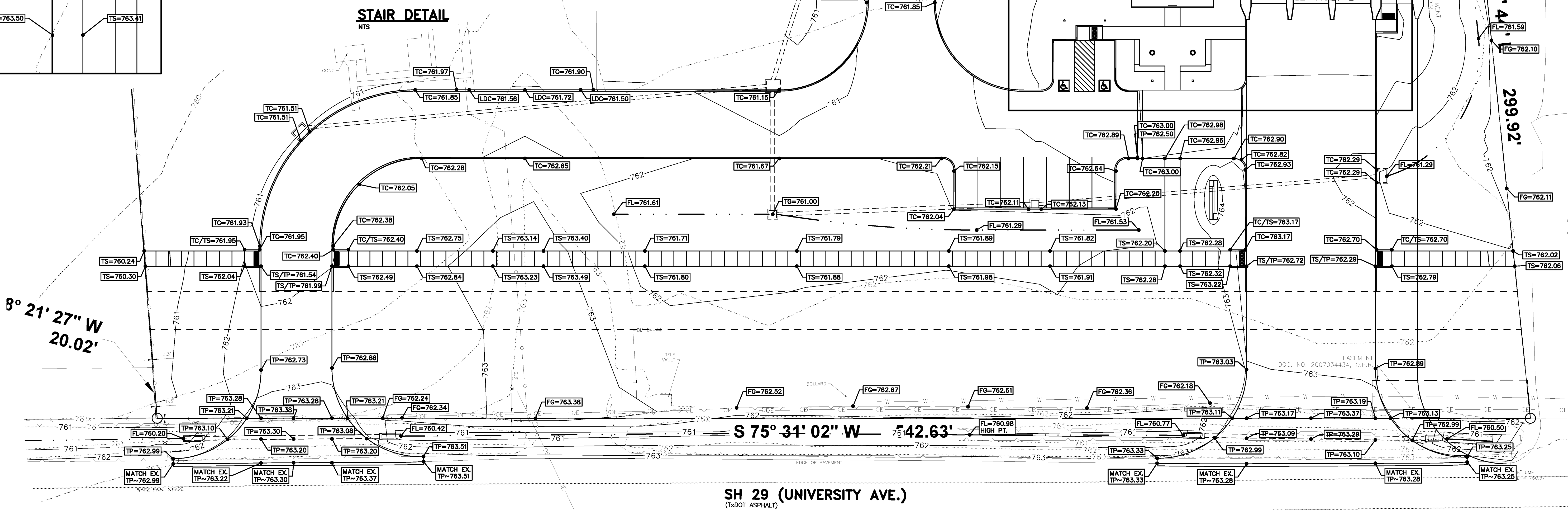
INSET C

SITE GRADING LEGEND

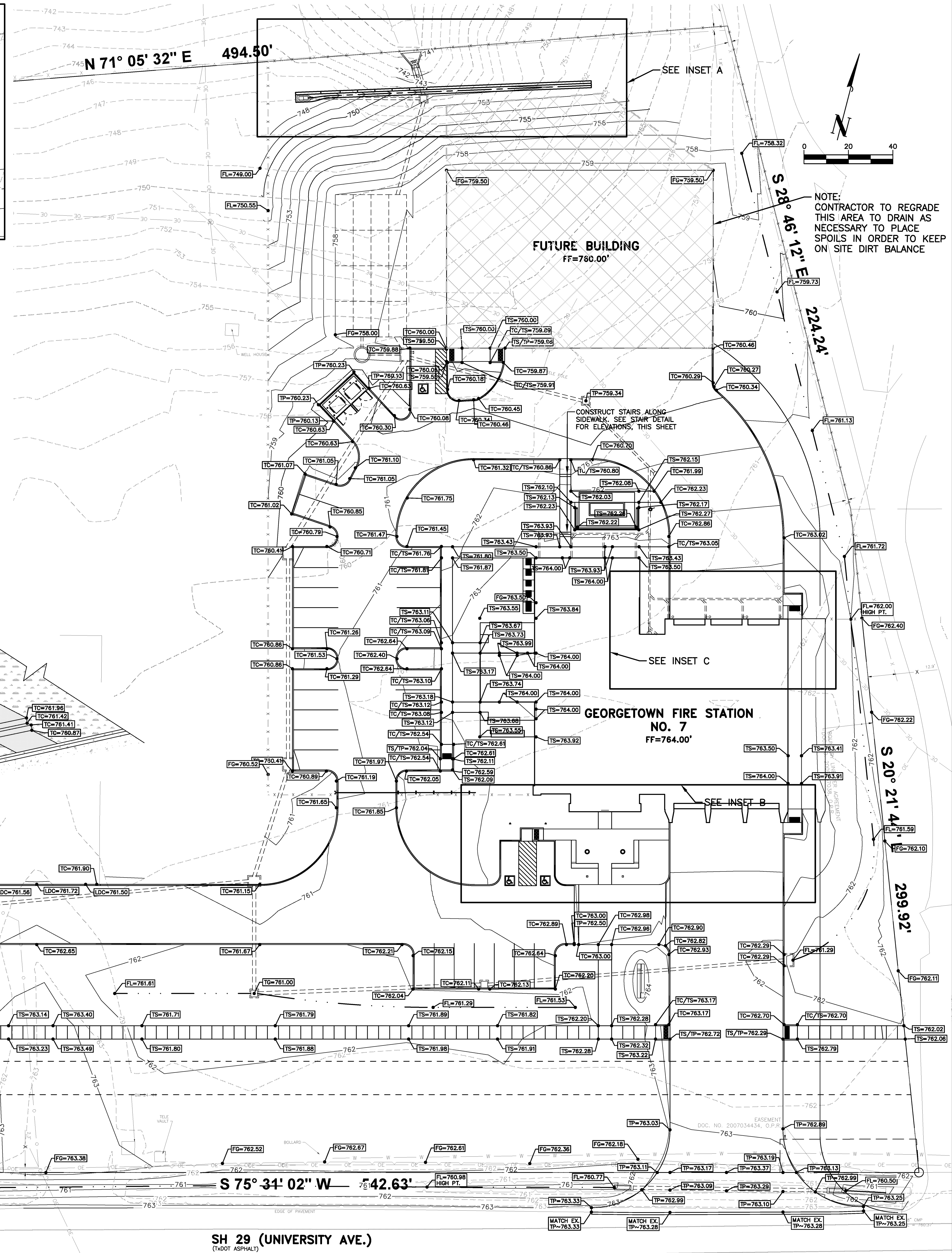
- TP=XXXX.XX - TOP OF PAVING
- TS=XXXX.XX - TOP OF SIDEWALK
- FG=XXXX.XX - FINISHED GRADE
- TG=XXXX.XX - TOP OF GRATE INLET
- FL=XXXX.XX - FLOW LINE

NOTE:
SITE CONTAINS NO SPRINGS, STREAM BUFFERS AND ASSOCIATED DISTURBANCES, AND/OR BUFFER ZONES. DRAINAGE FROM SITE FLOWS TO UNNAMED TRIBUTARY OF SMITH BRANCH ALONG NORTHERN BOUNDARY OF SITE.

8° 21' 27" W
20.02'



SH 29 (UNIVERSITY AVE.)
(TxDOT ASPHALT)



FUTURE BUILDING
FF=780.00'

GEORGETOWN FIRE STATION NO. 7
FF=764.00'

NOTE:
CONTRACTOR TO REGRADE THIS AREA TO DRAIN AS NECESSARY TO PLACE SPOILS IN ORDER TO KEEP ON SITE DIRT BALANCE

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FIRE STATION NO. 7**

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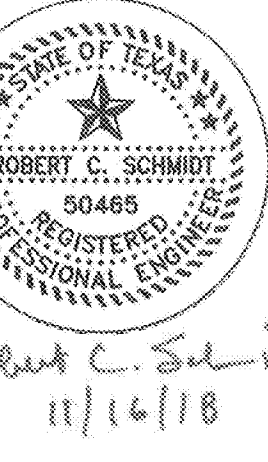
NO.	REVISION	DATE

C2.1
SITE GRADING PLAN

General Notes

1. These construction plans were prepared, sealed and dated by a Texas Licensed Professional Engineer. Therefore based on the engineer's concurrence of compliance, the construction plans for construction of the proposed project are hereby approved subject to the standard Construction Specifications and Details Manual and all other applicable City, State and Federal Requirements and Codes.
2. This project is subject to all City Standard Specifications and Details in effect at the time of submittal of the project of the City.
3. The site construction plans shall meet all requirements of the approved site plan.
4. Wastewater mains and service lines shall be SDR 26 PVC.
5. Wastewater mains shall be installed without horizontal or vertical bends.
6. Maximum distance between wastewater manholes is 500 feet.
7. Wastewater mains shall be low pressure air tested and mandrel tested by the contractor according to City of Georgetown and TCEQ requirements.
8. Wastewater manholes shall be vacuum tested and coated by the contractor according to City of Georgetown and TCEQ requirements.
9. Wastewater mains shall be camera tested by the contractor and submitted to the City on DVD format prior to paving the streets.
10. Private water system fire lines shall be tested by the contractor to 200 psi for 2 hours.
11. Private water system fire lines shall be ductile iron piping from the water main to the building sprinkler system, and 200 psi C900 PVC for all others.
12. Public water system mains shall be 150 psi C900 PVC and tested by the contractor at 150 psi for 4 hours.
13. All bends and changes in direction on water mains shall be restrained and thrust blocked.
14. Long fire hydrant leads shall be restrained.
15. All water lines are to be bacteria tested by the contractor according to the City standards and specifications.
16. Water and Sewer main crossings shall meet all requirements of the TCEQ and the City.
17. Flexible base material for public streets shall be TXDOT Type A Grade 1.
18. Hot mix asphaltic concrete pavement shall be Type D unless otherwise specified and shall be a minimum of 2 inches thick on public streets and roadways.
19. All sidewalk ramps are to be installed with the public infrastructure.
20. A maintenance bond is required to be submitted to the City prior to acceptance of the public improvements. This bond shall be established for 1 year in the amount of 25% of the cost of the public improvements and shall follow the City format.
21. Record drawings of the public improvements shall be submitted to the City by the design engineer prior to acceptance of the project. These drawings shall be on mylar or on TIFF or PDF (300p dpi). If a disk is submitted, a bond set shall be included with the disk.

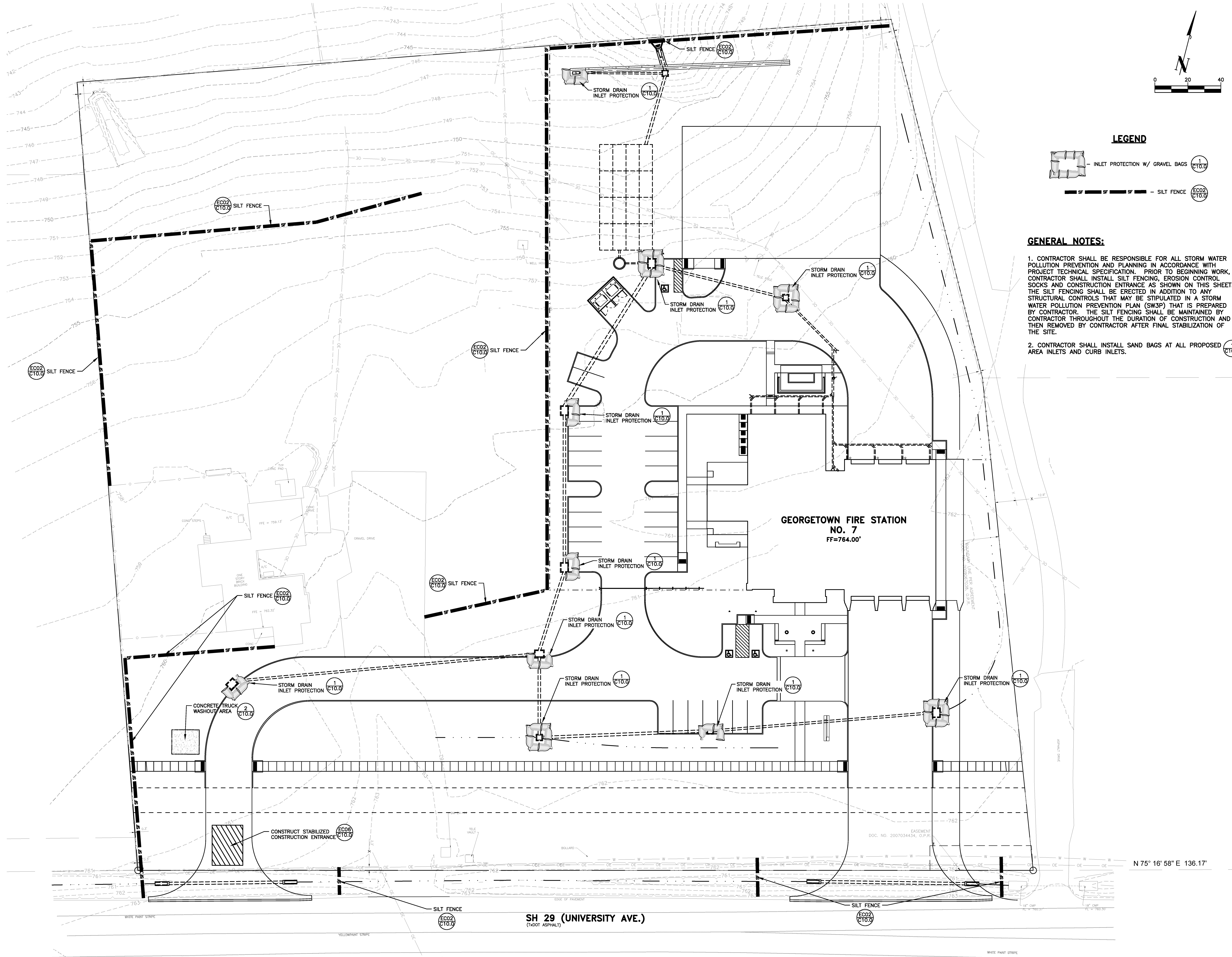
1. IN ADDITION TO THE OTHER NOTIFICATIONS REQUIRED BY THE SPECIFICATIONS AND CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE CITY OF GEORGETOWN, THE ENGINEER AND THE ARCHITECT WHEN THE FOLLOWING PHASES OF CONSTRUCTION ARE ABOUT TO BEGIN:
 - (a) 48 HOURS BEFORE ACTUAL WORK BEGINS, AND
 - (b) 24 HOURS BEFORE ANY REQUIRED TESTING.
2. CONTRACTOR SHALL HAVE ALL UNDERGROUND UTILITY LINES LOCATED AT LEAST 48 HOURS BEFORE DIGGING.
3. ANY PROPERTY BOUNDARY MONUMENTS DISTURBED BY CONTRACTOR SHALL BE REPLACED TO THEIR ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.
4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF GEORGETOWN NOTES, SPECIFICATIONS, AND DETAILS.
5. CONTRACTOR SHALL GRADE THE SITE TO THE PROPOSED SPOT ELEVATIONS AND CONTOURS SHOWN ON THE SITE GRADING PLAN.
6. THE CONTRACTOR SHALL PERFORM ALL CLEARING AND GRUBBING OPERATIONS REQUIRED TO INSTALL THE IMPROVEMENTS COVERED UNDER THIS PROJECT.
7. ANY EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ADDITIONALLY, THE CONTRACTOR MAY BE LIABLE FOR ADDITIONAL DAMAGES SUCH AS LOST GAS, WATER, ETC., OR LOST REVENUE FOR CABLE DAMAGE.
8. EROSION CONTROL MEASURES SHALL CONFORM TO ALL STATE AND FEDERAL REQUIREMENTS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION OF THE PROJECT. THE EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL INSTALL ALL ADDITIONAL MEASURES TO MEET THE REGULATORY REQUIREMENTS.
9. TOPSOIL SHALL BE STRIPPED IN EXCAVATION AREAS, THOSE AREAS BROUGHT TO FINAL GRADE (MINUS TOPSOIL DEPTH), AND THEN THE STRIPPED TOPSOIL SHALL BE PLACED TO FINISHED GRADE.
10. ANY UNPAVED AREA DISTURBED BY CONTRACTOR SHALL BE GRADED, SHAPED, AND GRASSED PER PROJECT SPECIFICATIONS.
11. WATER SHALL BE APPLIED TO ALL GRASSED AREAS CONTINUOUSLY AS NEEDED TO ESTABLISH ACCEPTABLE GRASS COVERAGE.
12. SIDEWALKS ADJACENT TO AREAS TO BE GRASSED SHALL BE FINISHED APPROXIMATELY 1 INCH HIGHER THAN FINISHED GROUND ELEVATION TO ALLOW FOR ESTABLISHMENT OF GRASS. ESTABLISHMENT OF GRASS SHALL NOT TRAP WATER ON THE SIDEWALK.
13. REFERENCE ARCHITECTURAL SHEETS FOR EXISTING TREE PRESERVATION.
14. REFERENCE LANDSCAPING SHEETS FOR LOCATION OF ALL PROPOSED LANDSCAPING IMPROVEMENTS. LANDSCAPING NOT SHOWN FOR CLARITY OF GRADING PLAN.
15. CONTRACTOR SHALL PERFORM MINIMUM GRADING NEEDED AROUND HERITAGE TREES TO AVOID DISTURBING SOIL AROUND THOSE TREES.



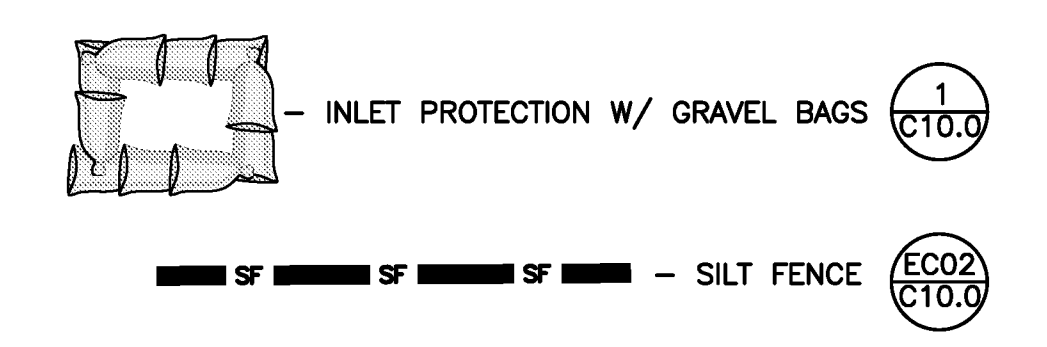
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NO.	REVISION	DATE



LEGEND



GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STORM WATER POLLUTION PREVENTION AND PLANNING IN ACCORDANCE WITH PROJECT TECHNICAL SPECIFICATION. PRIOR TO BEGINNING WORK, CONTRACTOR SHALL INSTALL SILT FENCING, EROSION CONTROL SOCKS AND CONSTRUCTION ENTRANCE AS SHOWN ON THIS SHEET. THE SILT FENCING SHALL BE ERECTED IN ADDITION TO ANY STRUCTURAL CONTROLS THAT MAY BE STIPULATED IN A STORM WATER POLLUTION PREVENTION PLAN (SW3P) THAT IS PREPARED BY CONTRACTOR. THE SILT FENCING SHALL BE MAINTAINED BY CONTRACTOR THROUGHOUT THE DURATION OF CONSTRUCTION AND THEN REMOVED BY CONTRACTOR AFTER FINAL STABILIZATION OF THE SITE.
2. CONTRACTOR SHALL INSTALL SAND BAGS AT ALL PROPOSED AREA INLETS AND CURB INLETS.

GEORGETOWN FIRE STATION NO. 7
FF=764.00'

SH 29 (UNIVERSITY AVE.)
(TxDOT ASPHALT)

N 75° 16' 58" E 136.17'

BROWN REYNOLDS WATFORD ARCHITECTS
2700 EARL RIBBER FERRY SOUTH
SUITE 4000 HOUSTON, TEXAS 77045
979.664.1791
WWW.BRWARCH.COM

Robert C. Schmitt
11/16/18

OSA JOB No.
3935.045

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CITY OF GEORGETOWN
FIRE STATION No. 7
2703 EAST STATE HIGHWAY 29
GEORGETOWN, TX 78626

NO.	REVISION	DATE

C2.3
EROSION CONTROL PLAN

GENERAL NOTES:

- IN ADDITION TO THE OTHER NOTIFICATIONS REQUIRED BY THE SPECIFICATIONS AND CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE CITY OF GEORGETOWN AT (512)930-3648, AND STRAND ASSOCIATES, AT (979)836-7937, WHEN THE FOLLOWING PHASES OF CONSTRUCTION ARE ABOUT TO BEGIN:
 - 48 HOURS BEFORE ACTUAL WORK BEGINS, AND
 - 24 HOURS BEFORE ANY REQUIRED TESTING.
- CONTRACTOR SHALL HAVE ALL UNDERGROUND UTILITY LINES LOCATED AT LEAST 48 HOURS BEFORE DIGGING.
- CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY TO PROVIDE FOR TRAFFIC CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. IN THE EVENT OF STREET CLOSURES, CONTRACTOR SHALL NOTIFY ALL EMERGENCY SERVICE PROVIDERS AT LEAST 24 HOURS PRIOR TO CLOSING STREETS TO TRAFFIC.
- ALL UNDERGROUND UTILITY LINES SHOWN ON THE PLANS ARE SHOWN FOR THE PURPOSE OF MAKING THE CONTRACTOR AWARE THAT THEY EXIST. NEITHER THE OWNER, NOR THE ENGINEER, GUARANTEES THE ACCURACY THEREOF. ALSO, THE LOCATIONS OF SOME EXISTING UTILITY LINES ARE NOT KNOWN AND THE CONTRACTOR WILL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES DURING CONSTRUCTION. THE FINAL ALIGNMENT OF THE PROPOSED LINES ARE SUBJECT TO MODIFICATION PENDING THE ESTABLISHMENT OF THE EXISTING UTILITY LOCATIONS.
- ALL EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ADDITIONALLY, THE CONTRACTOR MAY BE LIABLE FOR ADDITIONAL DAMAGES SUCH AS LOST GAS, WATER, ETC. OR LOST REVENUE FOR CABLE DAMAGE.
- ANY PROPERTY BOUNDARY MONUMENTS DISTURBED BY CONTRACTOR SHALL BE REPLACED TO THEIR ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL MAINTAIN EXISTING ACCESS TO ALL ADJACENT PROPERTIES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PERFORM ALL CLEARING AND GRUBBING OPERATIONS REQUIRED TO CONSTRUCT THE NEW IMPROVEMENTS ON THIS PROJECT.

WATER LEGEND

- INSTALL 12" TAPPING SLEEVE AND VALVE & VALVE BOX ON EX. 12" WATER LINE
- INSTALL FIRE HYDRANT ASSEMBLY (W10) (C5.0)
- INSTALL 12"x8" REDUCER
- NOT USED
- INSTALL 8"x8" TEE
- INSTALL 8" GATE VALVE W/BOX (W07) (C5.0)
- INSTALL 8" PLUG
- INSTALL 8"x6" REDUCER
- INSTALL 6"x6" TEE
- INSTALL 6" PLUG
- IRRIGATION TAP WILL NEED TO BE SIZED ONCE IRRIGATION SYSTEM IS DESIGNED BY A LICENSED IRRIGATION DESIGNER DURING BIDDING/CONSTRUCTION. OWNER TO PAY TAP FEE
- IRRIGATION REDUCED PRESSURE ZONE BACKFLOW PREVENTER AND METER REF. LANDSCAPE PLANS
- 6" 90° BEND
- INSTALL 6" GATE VALVE W/BOX (W07) (C5.0)
- 8" C-900 DR-18 PVC WATER LINE
- 6" C-900 DR-18 PVC WATER LINE
- 12" C-900 DR-14 PVC WATER LINE
- 2 1/2" SCH. 40 PVC WATER LINE
- INSTALL 6" PLUG TAPPED FOR 2 1/2", 6"x2 1/2" BRASS NIPPLE, TRANSITION TO 2 1/2" PVC
- INSTALL CUSTOMER CUT-OFF VALVE (W20) (C5.0)
- NOT USED
- CONNECT TO 2 1/2" STUB-OUT FROM BUILDING (DOMESTIC SUPPLY). REF. MEP PLANS FOR CONTINUATION OF LINE INSIDE BUILDING
- 6" FIRE SERVICE LINE, TO BE DESIGNED BY LICENSED FIRE SPRINKLER CONTRACTOR. SEE MEP PLAN SHEET FOR CONTINUATION OF LINE INSIDE BUILDING. CONNECT TO 6" STUB-OUT FROM BUILDING. REF. MEP PLANS FOR FIRE WATER BACKFLOW PREVENTER LOCATED INSIDE RISER ROOM
- INSTALL 64 LF 12" DR-14 C-900 PVC WITH 24" WELDED STEEL CASING BY BORE (W14) (C5.1)
- STANDARDIZED OS&Y, AND POST INDICATOR VALVE TO BE LOCATED AT THE BUILDING REF. MEP PLANS
- REMOTE FIRE DEPARTMENT CONNECTION TO BE LOCATED AT THE BUILDING REF. MEP PLANS
- INSTALL WATER METER. WATER METER TO BE PROVIDED BY THE CITY OF GEORGETOWN (W04) (C5.0)
- INSTALL 2 1/2" 90° BEND
- INSTALL 6" SCH 40 PVC SLEEVE MIN. 36" BELOW TOP OF CURB ELEVATION AND CAP BOTH ENDS

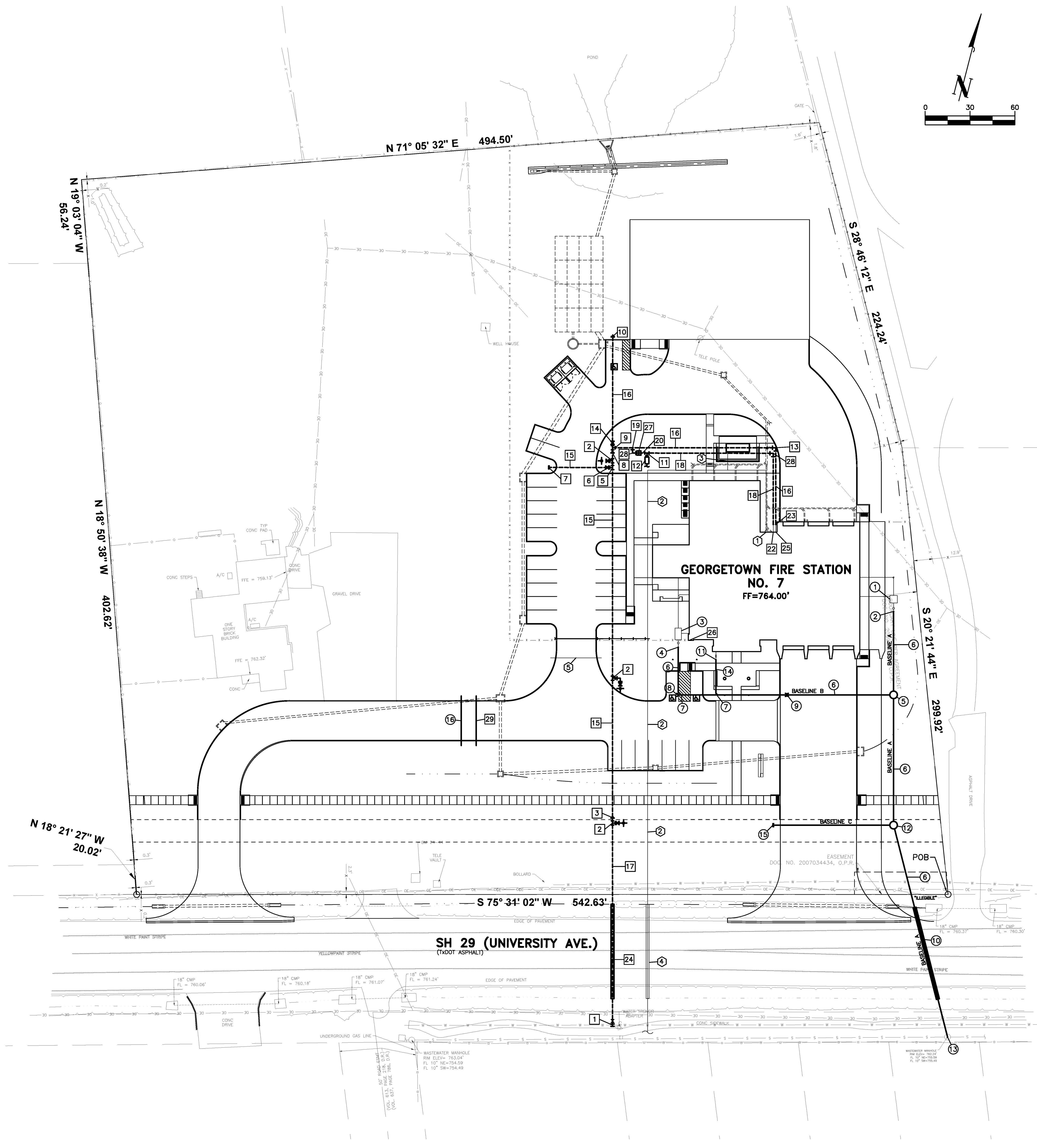
- THE CONTRACTOR SHALL BE AWARE THAT OVERHEAD POWER AND TELEPHONE LINES MAY EXIST WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT MAINTAIN A MINIMUM SAFE CLEARANCE FROM ALL ENERGIZED POWER LINES.
- THE CONTRACTOR SHALL PROTECT EXISTING YARDS, DRIVES, CURBS, MAIL BOXES, SIGNS, CULVERTS, ETC. FROM DAMAGE DURING CONSTRUCTION. DAMAGE DONE TO THESE ITEMS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL MOVE AND REINSTALL SUCH MOVABLE OBJECTS AS MAIL BOXES, TRAFFIC CONTROL DEVICES AND STREET SIGNS AS NECESSARY FOR CONSTRUCTION.
- THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS MATERIALS FROM THE PROJECT IN A MANNER ACCEPTABLE TO THE OWNER AND THE ENGINEER AND IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
- CONCRETE THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL WATER BENDS IN ACCORDANCE WITH CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS. NO SEPARATE PAYMENT WILL BE MADE FOR THRUST BLOCKING AND THE COST OF SAME SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR LINE WORK. CONTRACTOR SHALL EXERCISE CARE NOT TO GET CONCRETE USED FOR THRUST BLOCKING ON BOLTS AND GLANDS OF FITTINGS.
- ALL PVC WATER LINES SHALL BE INSTALLED WITH TRACE WIRE PER CITY OF GEORGETOWN TECHNICAL SPECIFICATIONS.
- ALL WORK TO MEET CITY OF GEORGETOWN REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL VALVE BOXES, METER BOXES, FIRE HYDRANTS, MANHOLES & CLEANOUTS TO FINISHED GRADE.
- SEE ARCHITECTURAL SHEETS FOR EXISTING TREE PRESERVATION REQUIREMENTS.
- SEE LANDSCAPING SHEETS FOR LOCATION OF ALL PROPOSED LANDSCAPING IMPROVEMENTS.

SAN. SEWER LEGEND

- SAND/OIL INTERCEPTOR & SAMPLE WELL. REF. MEP PLANS
- CONNECT TO 4" SEWER FROM SAND/OIL INTERCEPTOR. REFERENCE MEP PLANS FOR CONTINUATION OF LINE. REF. MEP PLANS FOR LOCATIONS AND FLOWLINE
- GREASE TRAP & SAMPLE WELL. REF. MEP PLANS
- CONNECT TO 4" SEWER FROM GREASE TRAP. REFERENCE MEP PLANS FOR CONTINUATION OF LINE. INSTALL TWO-WAY CLEANOUT REF. MEP PLANS FOR LOCATIONS AND FLOWLINE
- CONSTRUCT STD. SANITARY SEWER MANHOLE NO. 2 (WW03) (C7.0) SEE PLAN AND PROFILE FOR ELEVATIONS
- PROP. SANITARY SEWER LINE. SEE PLAN AND PROFILE SHEETS.
- INSTALL 4" SERVICE WYE (WW13) (C7.1)
- INSTALL 4" SERVICE CLEANOUT (WW12) (C7.0)
- INSTALL TWO WAY 4" SERVICE CLEANOUT
- INSTALL 64 LF 10" ASTM 3034 SDR 26 WITH 20" WELDED STEEL CASING BY BORE (W14) (C7.1)
- CONNECT TO 4" STUB-OUT FROM BUILDING. REFERENCE MEP PLANS FOR CONTINUATION OF LINE. INSTALL TWO-WAY CLEANOUT REF. MEP PLANS FOR LOCATIONS AND FLOWLINE
- CONSTRUCT STD. SANITARY SEWER MANHOLE NO. 1 (WW03) (C7.0) SEE PLAN AND PROFILE FOR ELEVATIONS
- CONNECT TO EXIST. SANITARY SEWER MANHOLE. SEE PLAN AND PROFILE
- INSTALL 4" ASTM 3034 SDR 26 PVC SANITARY SEWER @ 1.0% MIN. SLOPE
- INSTALL 10" PLUG
- INSTALL 12" ASTM 3034 SDR 26 PVC SLEEVE AND CAP BOTH ENDS FL 12" IN N=757.45 FL 12" OUT S=757.29

GAS LEGEND

- CONNECT TO STUB-OUT FROM BUILDING. REF. MEP PLANS FOR CONTINUATION INSIDE THE BUILDING
- GAS LINE. ATMOS TO SILE.
- GAS LINE TO GENERATOR REF. MEP PLANS FOR CONTINUATION
- CONTRACTOR TO CONTACT ALL PAINE WITH ATMOS ENERGY CORPORATION AT (512)-310-3855 FOR METER SIZE, LOCATION, AND PRICING FOR CONNECTION TO GAS MAIN AT SOUTH SIDE OF SH 29.
- INSTALL 12" PVC SLEEVE MIN. 36" BELOW TOP OF CURB ELEVATION AND CAP BOTH ENDS



ESTIMATED WATER USAGE:

THIS FIRE STATION WILL HOUSE ELEVEN (11) EMPLOYEES FOR A 24 HOUR DURATION. WE HAVE CALCULATED (100) GALLONS PER DAY TIMES ELEVEN (11) EMPLOYEES EQUALS (1100) GPD.

CALCULATED WATER DEMAND=72 GPM

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BRW

ROBERT C. SCHMIDT
 REGISTERED PROFESSIONAL ENGINEER
 50465
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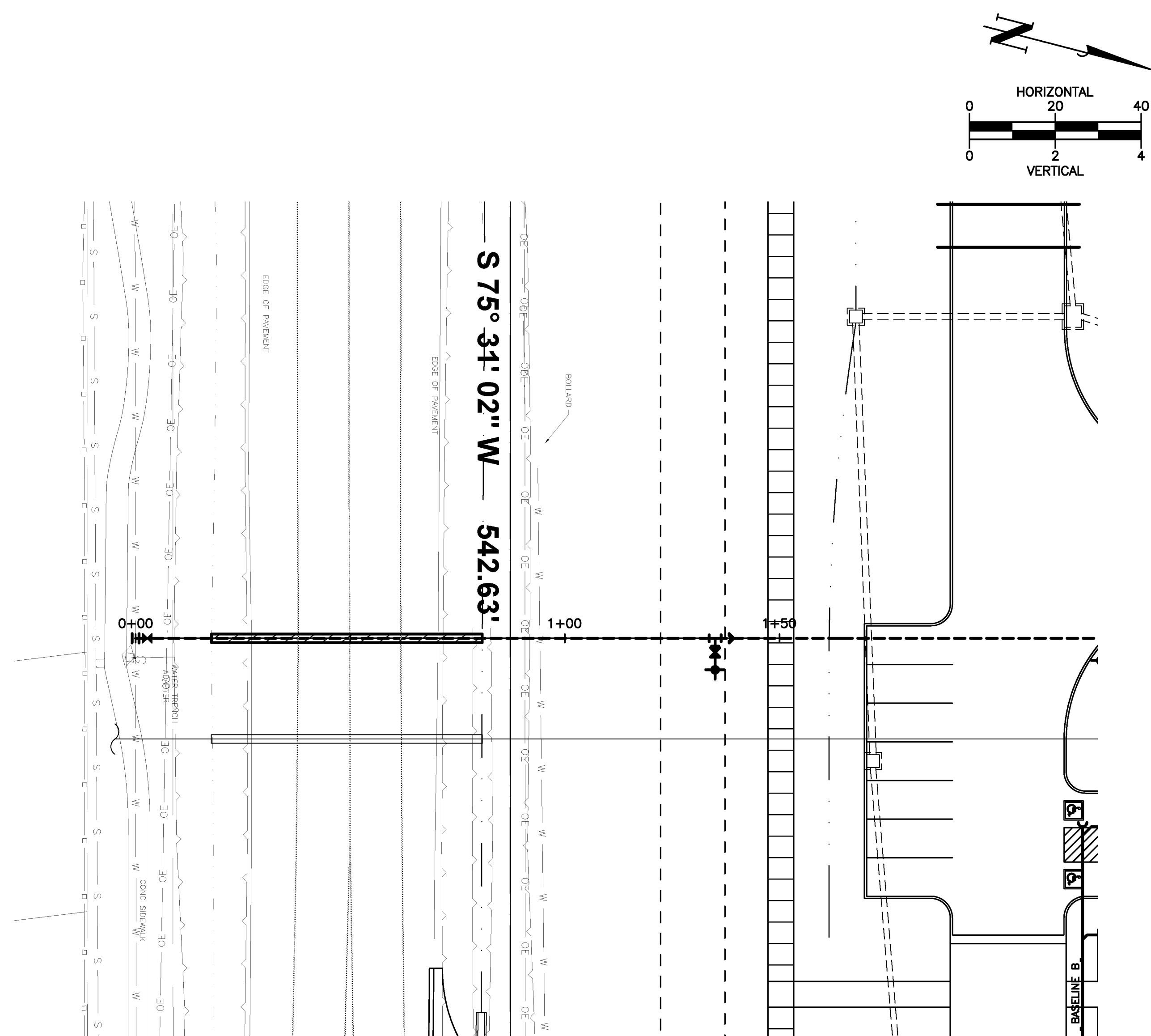
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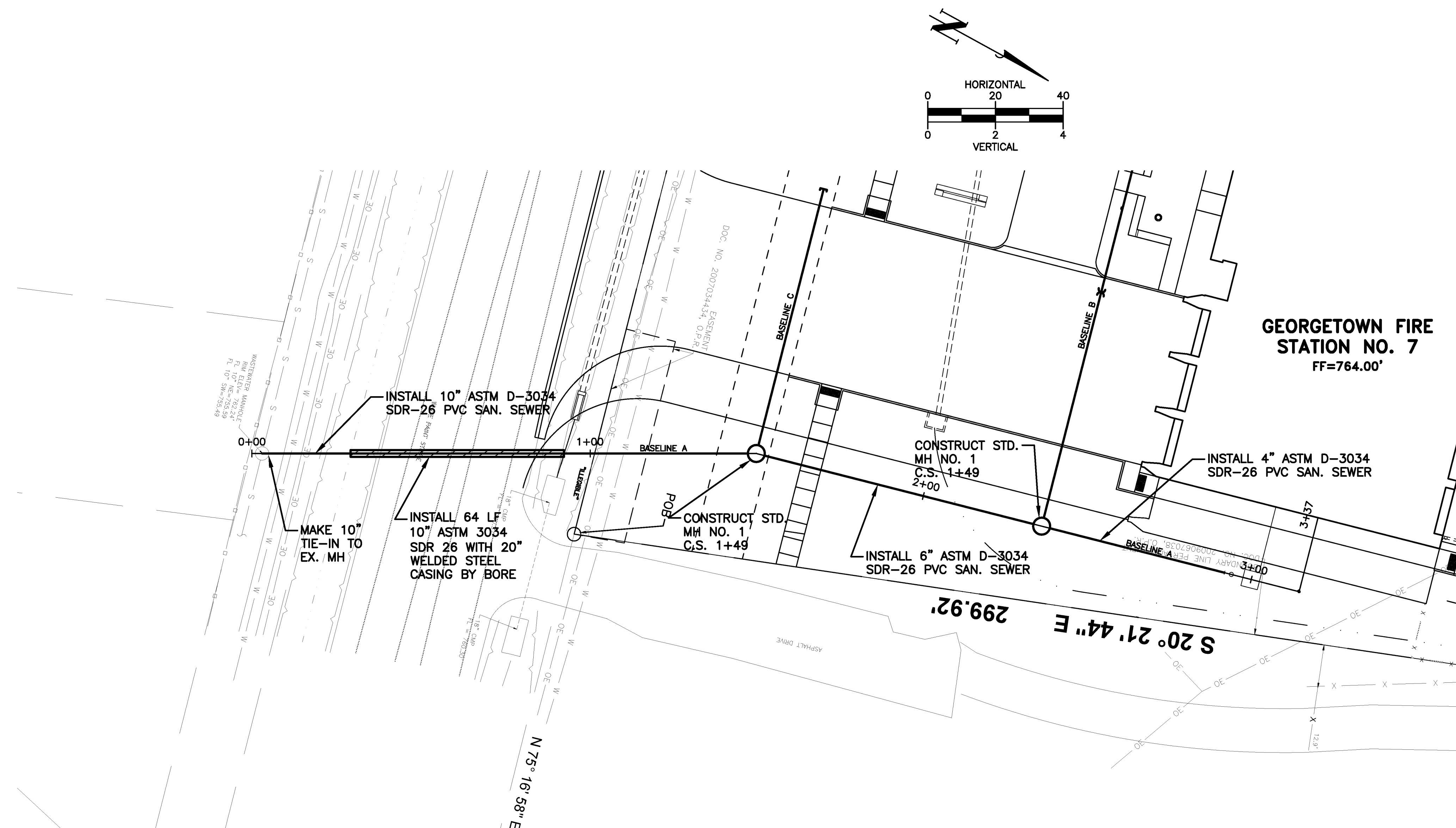
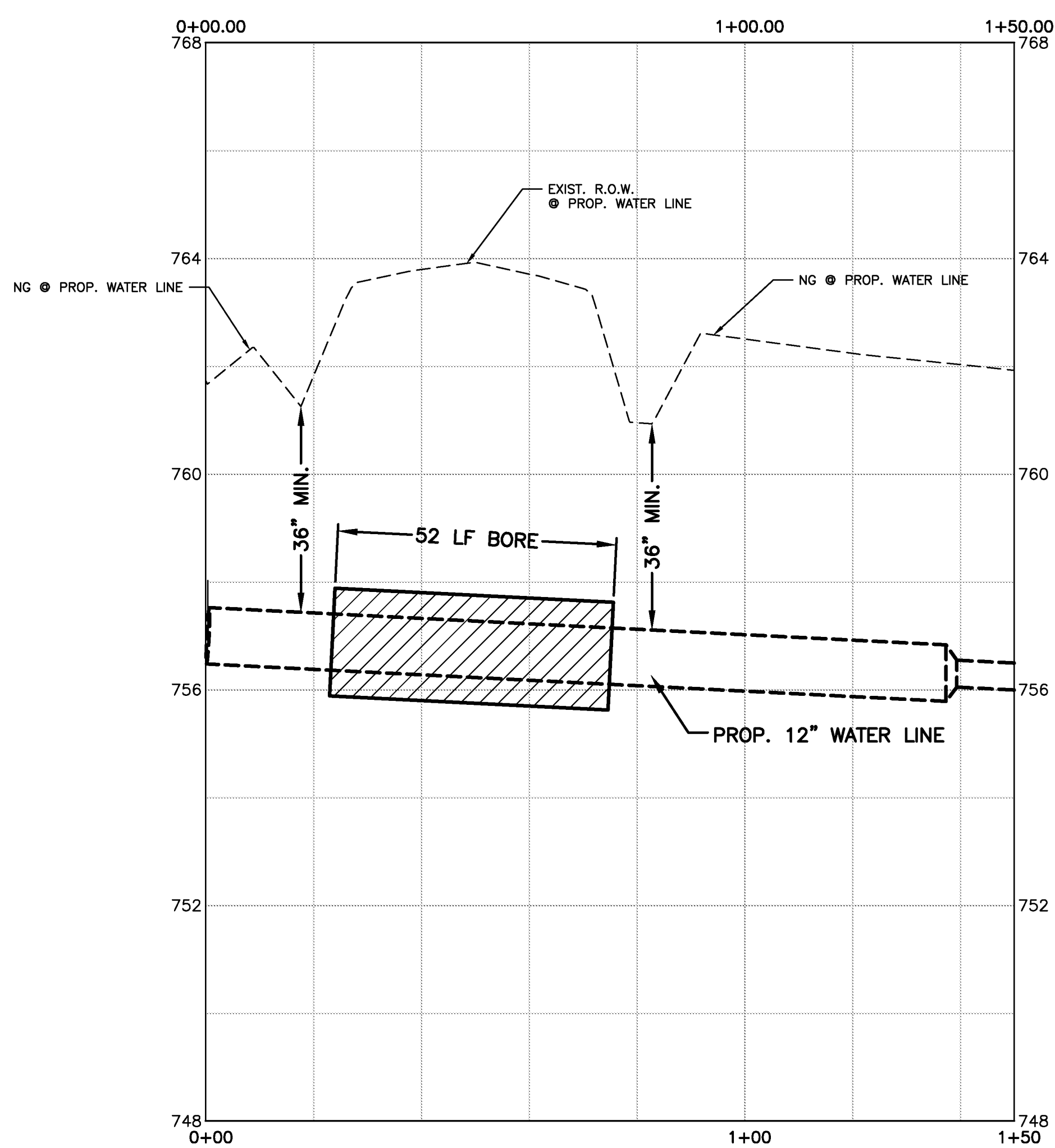
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 FIRE STATION No. 7**
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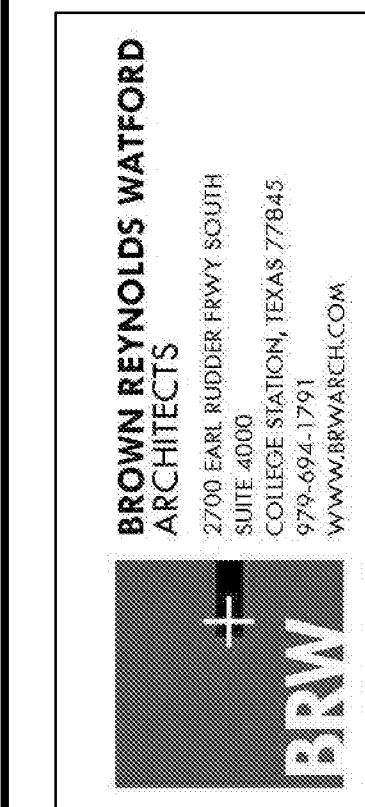
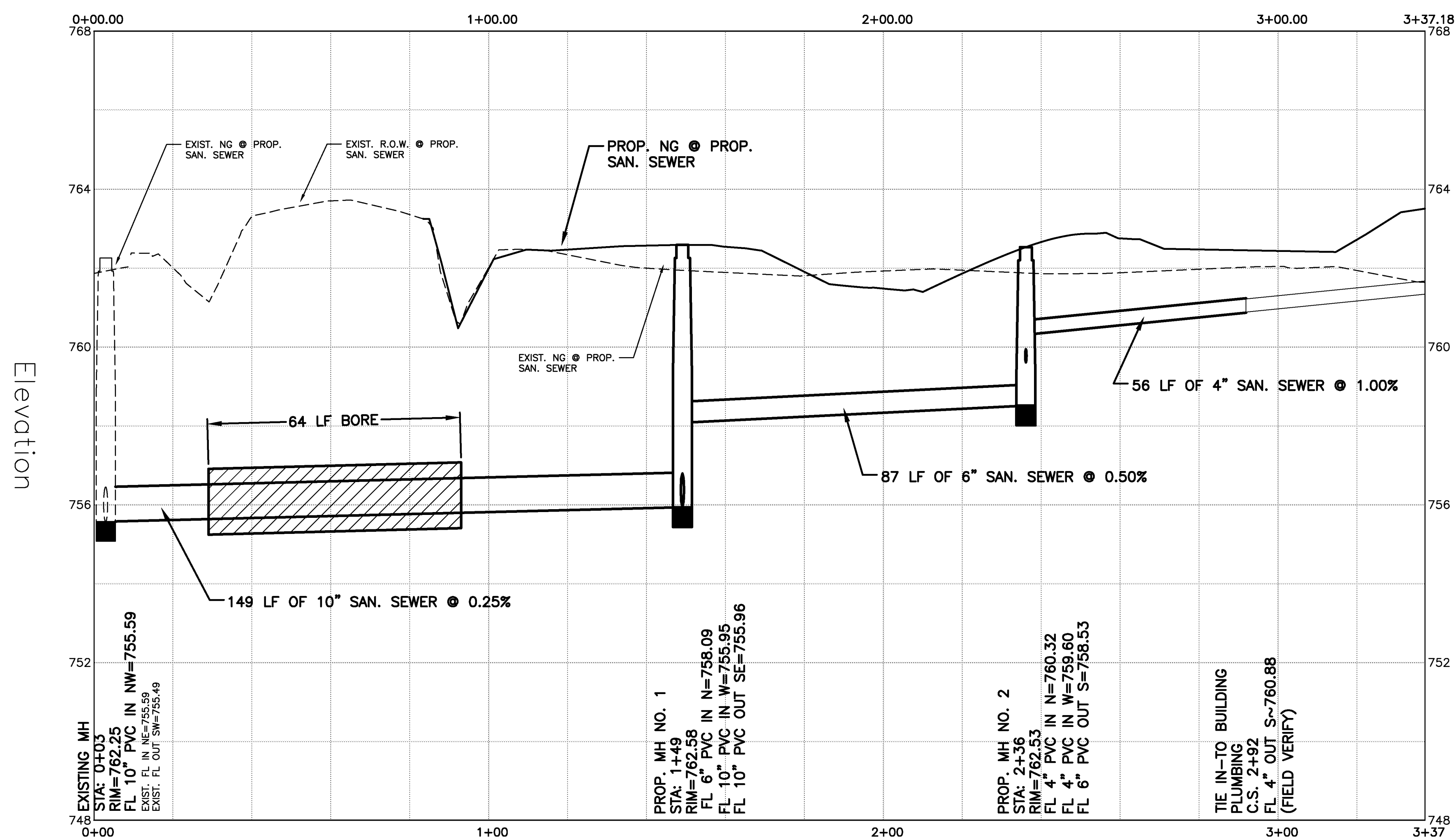
C3.0
 SITE UTILITY PLAN



WATER LINE PLAN AND PROFILE



SANITARY SEWER LINE PLAN AND PROFILE (BASELINE A)



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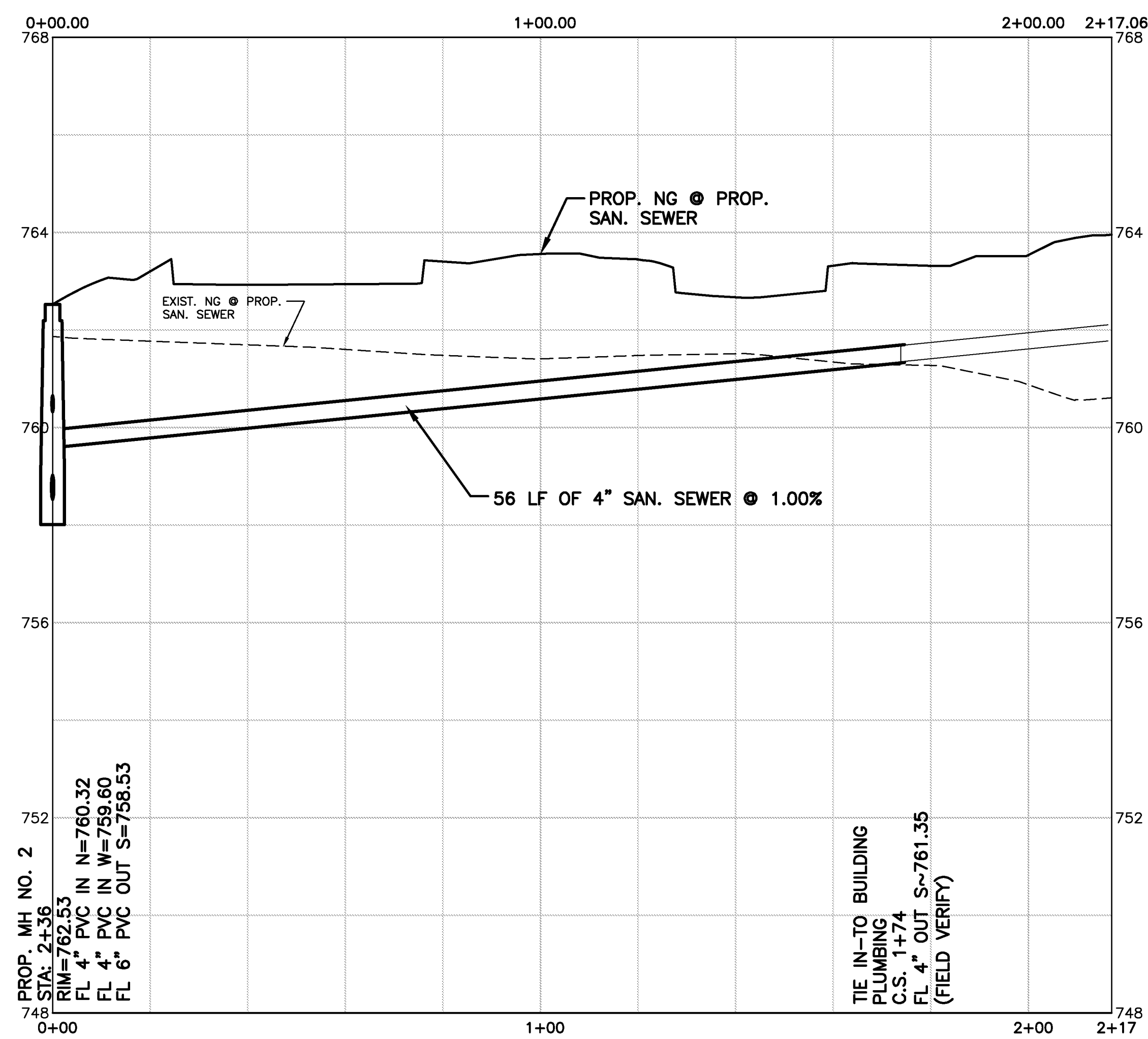
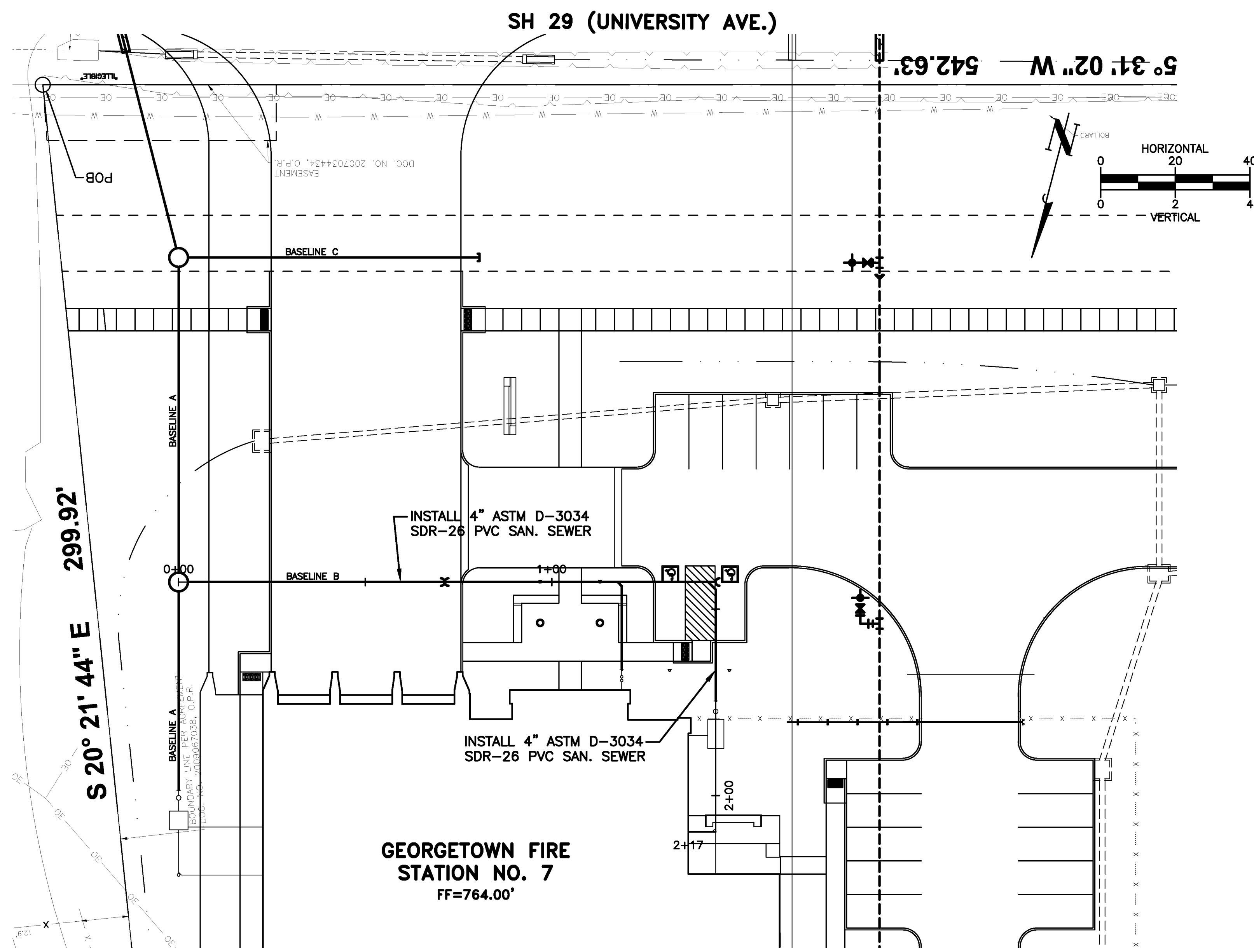


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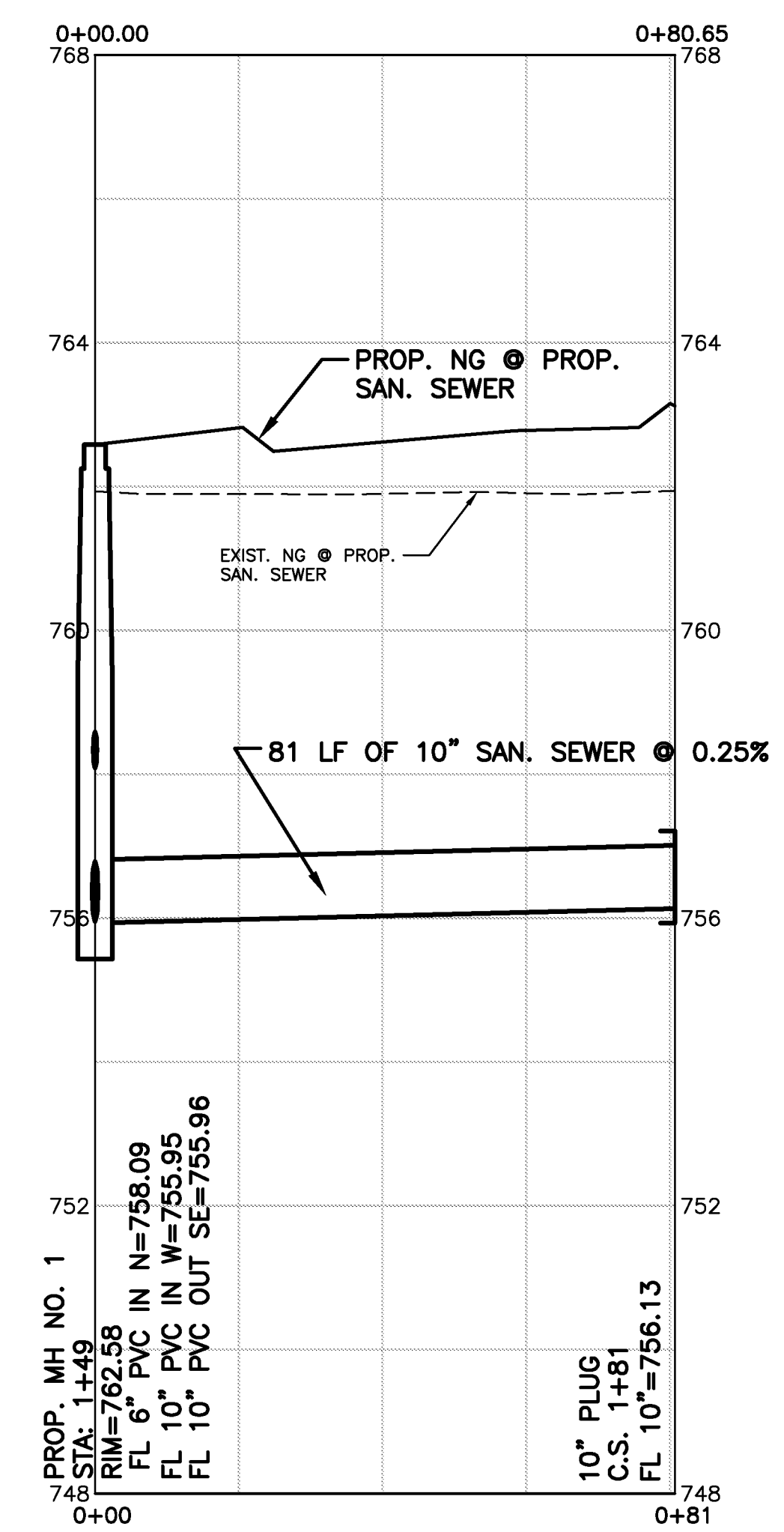
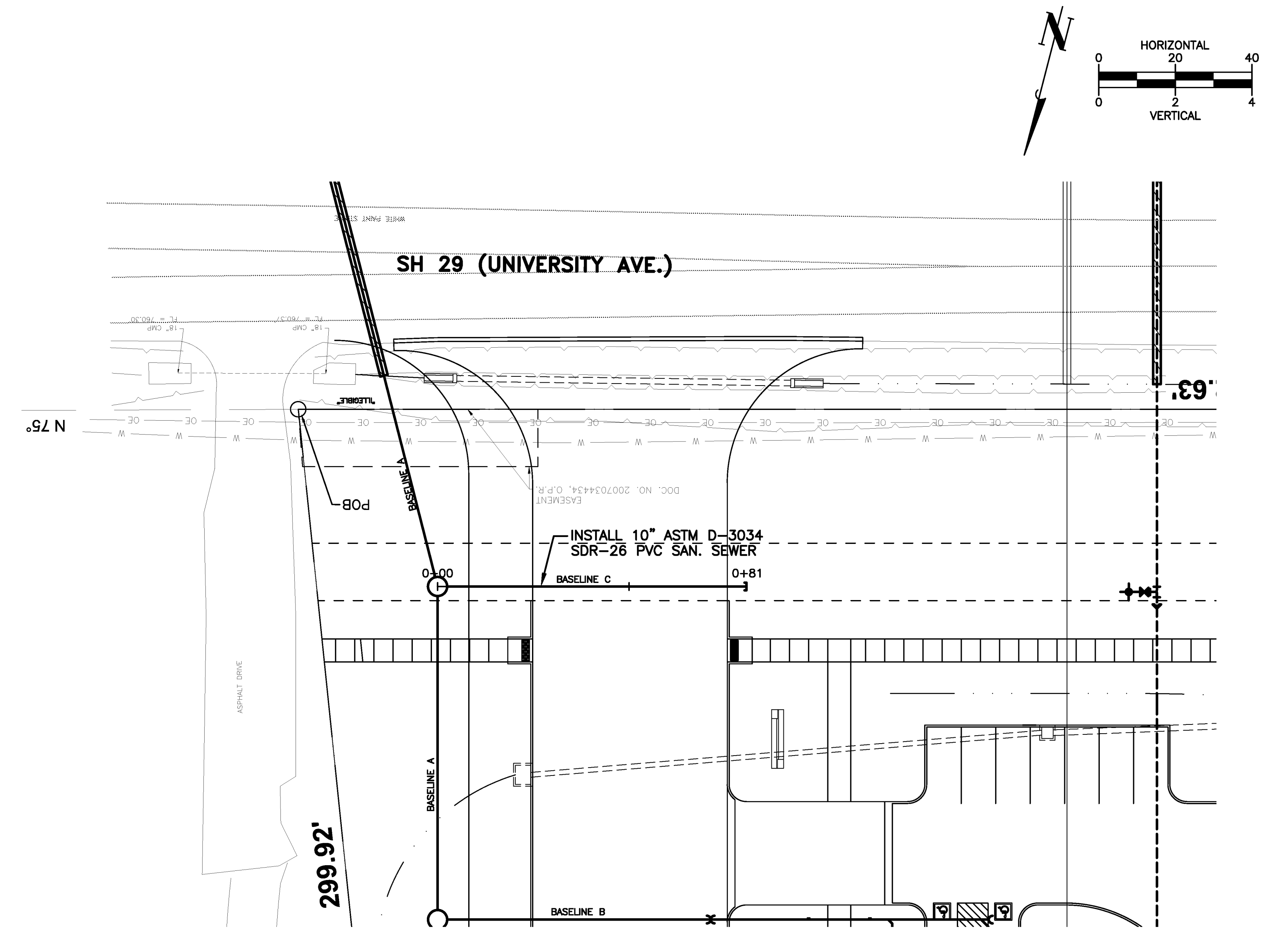
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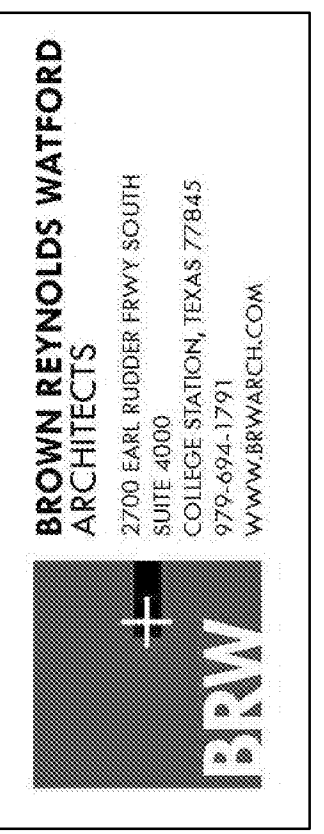
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SANITARY SEWER LINE PLAN AND PROFILE (BASELINE B)



SANITARY SEWER LINE PLAN AND PROFILE (BASELINE C)



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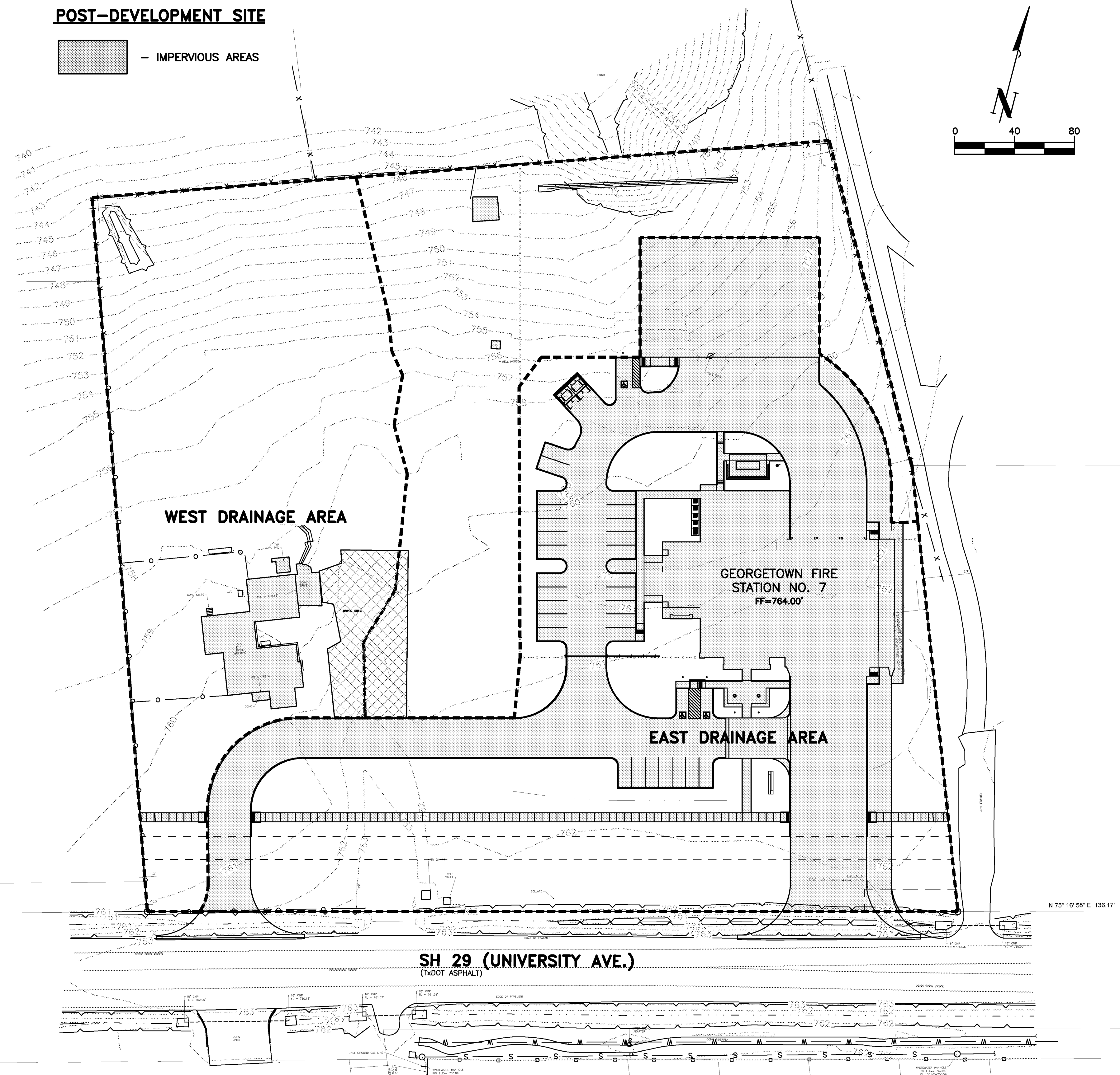
PRE-DEVELOPMENT SITE

- - - EXISTING TIME OF CONCENTRATION PATH
- IMPERVIOUS AREAS
- ▨ SEMI IMPERVIOUS AREAS



POST-DEVELOPMENT SITE

- IMPERVIOUS AREAS



PRE-DEVELOPMENT CONDITIONS

WEST	
TYPE	AREA (ACRES)
PERVIOUS	1.199
SEMI-PERVIOUS	0.648
IMPERVIOUS	0.113
TOTAL	1.960

EAST	
TYPE	AREA (ACRES)
PERVIOUS	3.015
SEMI-PERVIOUS	0.887
IMPERVIOUS	0.178
TOTAL	4.080

POST-DEVELOPMENT CONDITIONS

WEST	
TYPE	AREA (ACRES)
PERVIOUS	1.469
SEMI-PERVIOUS	0.078
IMPERVIOUS	0.099
TOTAL	1.646

EAST (DRAINING THROUGH POND)

TYPE		AREA (ACRES)
PERVIOUS	1.223	
SEMI-PERVIOUS	0.052	
IMPERVIOUS	1.823	
TOTAL	3.098	

EAST (BYPASS)

TYPE		AREA (ACRES)
PERVIOUS	1.237	
SEMI-PERVIOUS	0.052	
IMPERVIOUS	0.007	
TOTAL	1.296	

Pond Type III 24-hr 100 year Rainfall=9.50"
 Prepared by Strand Associates, Inc Printed 8/13/2018
 HydroCAD® 10.00-21 s/n 09896 © 2018 HydroCAD Software Solutions LLC Page 11

Summary for Pond 1P: Pond

Inflow Area = 3.150 ac, 57.87% Impervious, Inflow Depth > 7.59" for 100 year event
 Inflow = 24.06 cfs @ 12.14 hrs, Volume= 1,991 af
 Outflow = 9.75 cfs @ 12.42 hrs, Volume= 1,970 af, Atten= 59%, Lag= 17.0 min
 Primary = 9.75 cfs @ 12.42 hrs, Volume= 1,970 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 751.14' @ 12.42 hrs Surf Area= 0.000 ac Storage= 0.476 af

Plug-Flow detention time= 27.4 min calculated for 1,964 af (99% of inflow)
 Center-of-Mass det. time= 22.8 min (776.4 - 753.6)

Volume #1	Invert	Avail Storage	Storage Description
744.00	0.000	0.800 af	Custom Stage Data Listed below
Elevation (feet)	Cum Store (acre-feet)		
744.00	0.000		
745.00	0.067		
746.00	0.133		
747.00	0.200		
748.00	0.267		
749.00	0.333		
750.00	0.400		
751.00	0.467		
752.00	0.533		
753.00	0.600		
754.00	0.667		
755.00	0.733		
756.00	0.800		

Device	Routing	Invert	Outlet Devices	C
#1	Primary	744.00'	12.0" Vert. Orifice/Grate	0.600

Primary Outflow Max=9.74 cfs @ 12.42 hrs HW=751.13' (Free Discharge)
 1=Orifice/Grate (Orifice Controls 9.74 cfs @ 12.40 fps)

- OVERALL DRAINAGE AREA = 6.041 AC.
NEW IMPERVIOUS AREA = 1.806 AC.
POST DEVELOPMENT IMPERVIOUS COVER = 30%
- THE DETENTION FACILITY PASSES THE 100 YEAR STORM EVENT WITH 3.00' OF FREEBOARD TO THE FLOWLINE OF THE OVERFLOW.
- THE DETENTION FACILITY HAS 0.103 AC.-FT. OF ADDITIONAL STORAGE ABOVE THE 100 YEAR DESIGN FLOWS. THIS CAN BE USED FOR FUTURE IMPERVIOUS COVER. SIZE OF FUTURE IMPERVIOUS COVER IS DEPENDENT ON ITS LOCATION

	EXISTING FLOW (CFS)	PROPOSED FLOW (CFS)	PROPOSED BYPASS FLOW (CFS)	TARGET FLOW (CFS)	ACTUAL RELEASED FLOW (CFS)	WATER SURFACE ELEVATION (FT)	STORAGE (AC-FT)
2 YEAR	8.70	6.80	1.56	5.13	3.96	745.59	0.106
10 YEAR	20.72	13.34	4.03	9.53	6.48	747.44	0.229
25 YEAR	27.43	16.8	5.44	11.86	7.62	748.56	0.304
100 YEAR	40.99	23.66	8.33	16.34	9.64	750.99	0.467

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CITY OF GEORGETOWN
FIRE STATION No. 7
 2703 EAST STATE HIGHWAY 29
 GEORGETOWN, TX 77626

NO.	REVISION	DATE

C4.0
 OVERALL DRAINAGE AREA
 MAPS & DETENTION
 STORAGE CALCULATIONS

Drainage Area	LineID	DrainageArea (ac)	RunoffCoeff (C)	InletTime (min)	ISys (in/hr)	KnownQ (cfs)	QCaptured (cfs)	QBypass (cfs)	TotalRunoff (cfs)	LineLength (ft)	LineSize (in)	n-valuePipe	LineSlope (%)	FlowRate (cfs)	CapacityFull (cfs)	VelUp (ft/s)	EnergyLoss (ft)	Grnd/RimElev Up (ft)	InletDepth (ft)	HGLUp (ft)	HGLDn (ft)	InvertUp (ft)	InvertDn (ft)
A-1	Outfall to A-1	0.12	0.69	10.0	9.41	0.00	0.84	0.00	20.05	15.000	30	0.013	0.53	20.05	29.95	6.54	0.000	759.39	0.38	756.02	756.00	754.52	754.44
B-1	A-1 to B-1	0.57	0.89	10.0	9.71	0.00	5.17	0.00	7.60	83.821	15	0.013	1.00	7.60	6.46	6.19	1.161	759.50	0.36	758.18	757.02	756.61	755.77
	B-1 to B-2	0.00	0.00	10.0	9.76	0.00	.....	.....	2.69	41.435	12	0.011	4.01	2.69	8.42	4.56	0.204	761.07	.....	759.22	758.71	758.52	756.86
	B-2 to B-3	0.00	0.00	10.0	9.80	0.00	.....	.....	2.70	29.788	12	0.011	3.99	2.70	8.41	9.53	0.000	762.60	.....	760.10	759.22	759.71	758.52
	B-3 to B-4	0.00	0.00	10.0	9.98	0.00	.....	.....	1.33	6.054	8	0.011	1.49	1.33	1.74	5.49	0.000	762.60	.....	760.57	760.48	760.13	760.04
	B-4 to B-5	0.00	0.00	10.0	10.01	0.00	.....	.....	1.05	14.530	8	0.011	1.45	1.05	1.72	5.16	0.000	762.60	.....	760.72	760.57	760.34	760.13
	B-5 to B-6	0.00	0.00	10.0	10.04	0.00	.....	.....	0.67	14.419	8	0.011	1.53	0.67	1.76	4.70	0.000	762.79	.....	760.85	760.72	760.57	760.35
	B-6 to B-7	0.00	0.00	10.0	10.13	0.00	.....	.....	0.29	14.530	8	0.012	1.51	0.29	1.61	3.49	0.000	763.05	.....	760.98	760.85	760.79	760.57
RD-1	B-7 to RD-1	0.03	0.95	10.0	10.20	0.00	.....	.....	0.29	10.792	8	0.011	15.85	0.29	5.68	8.53	0.000	763.50	.....	762.60	760.98	762.50	760.79
RD-2	B-6 to RD-2	0.04	0.95	10.0	10.20	0.00	.....	.....	0.39	10.792	8	0.011	17.88	0.39	6.04	9.69	0.000	763.50	.....	762.61	760.85	762.50	760.57
RD-3	B-5 to RD-3	0.04	0.95	10.0	10.20	0.00	.....	.....	0.39	10.792	8	0.011	19.92	0.39	6.37	10.07	0.000	763.50	.....	762.61	760.72	762.50	760.35
RD-4	B-4 to RD-4	0.03	0.95	10.0	10.20	0.00	.....	.....	0.29	10.792	8	0.011	21.96	0.29	6.68	9.57	0.000	763.50	.....	762.59	760.57	762.50	760.13
	B-3 to RD-8	0.00	0.00	10.0	9.83	0.00	.....	.....	1.40	29.302	8	0.011	3.99	1.40	2.85	8.13	0.000	763.80	.....	761.54	760.37	761.21	760.04
	B-8 to B-9	0.00	0.00	10.0	9.84	0.00	.....	.....	1.22	8.644	8	0.011	0.81	1.22	1.28	4.19	0.000	763.85	.....	761.80	761.73	761.28	761.21
RD-6	B-9 to RD-6	0.02	0.95	10.0	10.20	0.00	.....	.....	0.19	8.917	8	0.011	13.68	0.19	5.28	7.18	0.000	764.00	.....	762.59	761.80	762.50	761.28
	B-9 to B-10	0.00	0.00	10.0	9.87	0.00	.....	.....	1.03	16.708	8	0.011	0.84	1.03	1.31	4.15	0.000	763.47	.....	761.87	761.80	761.42	761.28
RD-7	B-10 to RD-7	0.03	0.95	10.0	10.20	0.00	.....	.....	0.29	8.917	8	0.011	12.11	0.29	4.97	7.76	0.000	764.00	.....	762.61	761.87	762.50	761.42
	B-10 to B-11	0.00	0.00	10.0	9.91	0.00	.....	.....	0.75	16.708	8	0.011	0.78	0.75	1.26	3.77	0.000	763.47	.....	761.92	761.87	761.55	761.42
RD-8	B-11 to RD-8	0.03	0.95	10.0	10.20	0.00	.....	.....	0.29	8.917	8	0.011	10.65	0.29	4.66	7.42	0.000	764.00	.....	762.61	761.92	762.50	761.55
	B-11 to B-12	0.00	0.00	10.0	9.97	0.00	.....	.....	0.47	16.708	8	0.011	0.84	0.47	1.31	3.44	0.000	763.47	.....	761.97	761.92	761.69	761.55
RD-9	B-12 to RD-9	0.03	0.95	10.0	10.20	0.00	.....	.....	0.29	8.917	8	0.011	9.08	0.29	4.30	7.01	0.000	764.00	.....	762.62	761.97	762.50	761.69
	B-12 to B-13	0.00	0.00	10.0	10.11	0.00	.....	.....	0.19	16.708	8	0.011	0.78	0.19	1.26	2.61	0.000	763.20	.....	762.00	761.97	761.82	761.69
RD-10	B-13 to RD-10	0.02	0.95	10.0	10.20	0.00	.....	.....	0.19	8.987	8	0.011	21.96	0.19	3.93	5.82	0.000	764.00	.....	762.60	762.00	762.50	761.82
RD-5	B-8 to RD-5	0.02	0.95	10.0	10.20	0.00	.....	.....	0.19	15.654	8	0.011	4.02	0.19	2.86	4.67	0.000	763.50	.....	761.96	761.54	761.84	761.21
A-2	A-1 to A-2	0.14	0.86	10.0	9.52	0.00	1.23	0.00	12.06	109.681	24	0.013	0.50	12.06	16.02	5.60	0.520	759.91	0.42	756.83	756.32	755.54	755.02
A-3	A-2 to A-3	0.18	0.74	10.0	9.59	0.00	1.36	0.00	10.99	95.000	18	0.013	0.51	10.99	7.46	6.22	1.041	759.91	0.43	758.58	757.54	756.52	756.04
A-4	A-3 to A-4	0.16	0.89	10.0	9.63	0.00	1.45	0.00	9.76	54.622	18	0.013	0.49	9.76	7.38	5.52	0.472	760.65	0.44	759.35	758.88	756.79	756.52
A-5	A-4 to A-5	0.58	0.39	10.0	9.77	0.00	2.31	0.00	6.63	50.583	18	0.013	0.49	6.63	7.38	3.75	0.201	761.00	0.20	760.22	760.02	757.04	756.79
A-6	A-5 to A-6	0.11	0.92	10.0	9.98	0.00	1.03	0.00	4.51	112.496	18	0.013	0.51	4.51	7.47	2.55	0.208	761.32	0.40	760.76	760.55	757.61	757.04
A-7	A-6 to A-7	0.45	0.78	10.0	10.20	0.00	3.58	0.00	3.58	128.788	15	0.011	0.50	3.58	5.38	2.92	0.283	761.79	0.50	761.09	760.81	758.50	757.86
C-1	A-4 to C-1	0.32	0.60	10.0	10.20	0.00	1.96	0.00	1.96	187.046	15	0.013	0.40	1.96	4.09	1.60	0.172	761.01	0.48	760.19	760.02	757.79	757.04

DRIVEWAY CULVERTS, DRAINAGE AREAS

WEST DRIVEWAY CULVERT

TYPE	AREA (ACRES)
PERVIOUS	0.103
SEMI-IMPERVIOUS	0.000
IMPERVIOUS	0.143
TOTAL	0.246

EAST DRIVEWAY CULVERT

TYPE	AREA (ACRES)
PERVIOUS	0.048
SEMI-IMPERVIOUS	0.000
IMPERVIOUS	0.075
TOTAL	0.123

TIME OF CONCENTRATION (MIN.)

WEST	EAST
10.0	10.0

INTENSITY (TABLE F, TxDOT DRAINAGE CRITERIA MANUAL, WILLIAMSON COUNTY)

DESIGN STORM	WEST INTENSITY (IN/HR)	EAST INTENSITY (IN/HR)
2-YEAR	4.39	4.39
10-YEAR	6.75	6.75
25-YEAR	7.88	7.88
100-YEAR	10.20	10.20

WEIGHTED RUNOFF COEFFICIENT

WEST	EAST
0.678	0.698

PEAK FLOW RATES, WEST DRIVEWAY CULVERT

DESIGN STORM	FLOW (CFS)
2-YEAR	0.73
10-YEAR	1.12
25-YEAR	1.31
100-YEAR	1.70

PEAK FLOW RATES, EAST DRIVEWAY CULVERT

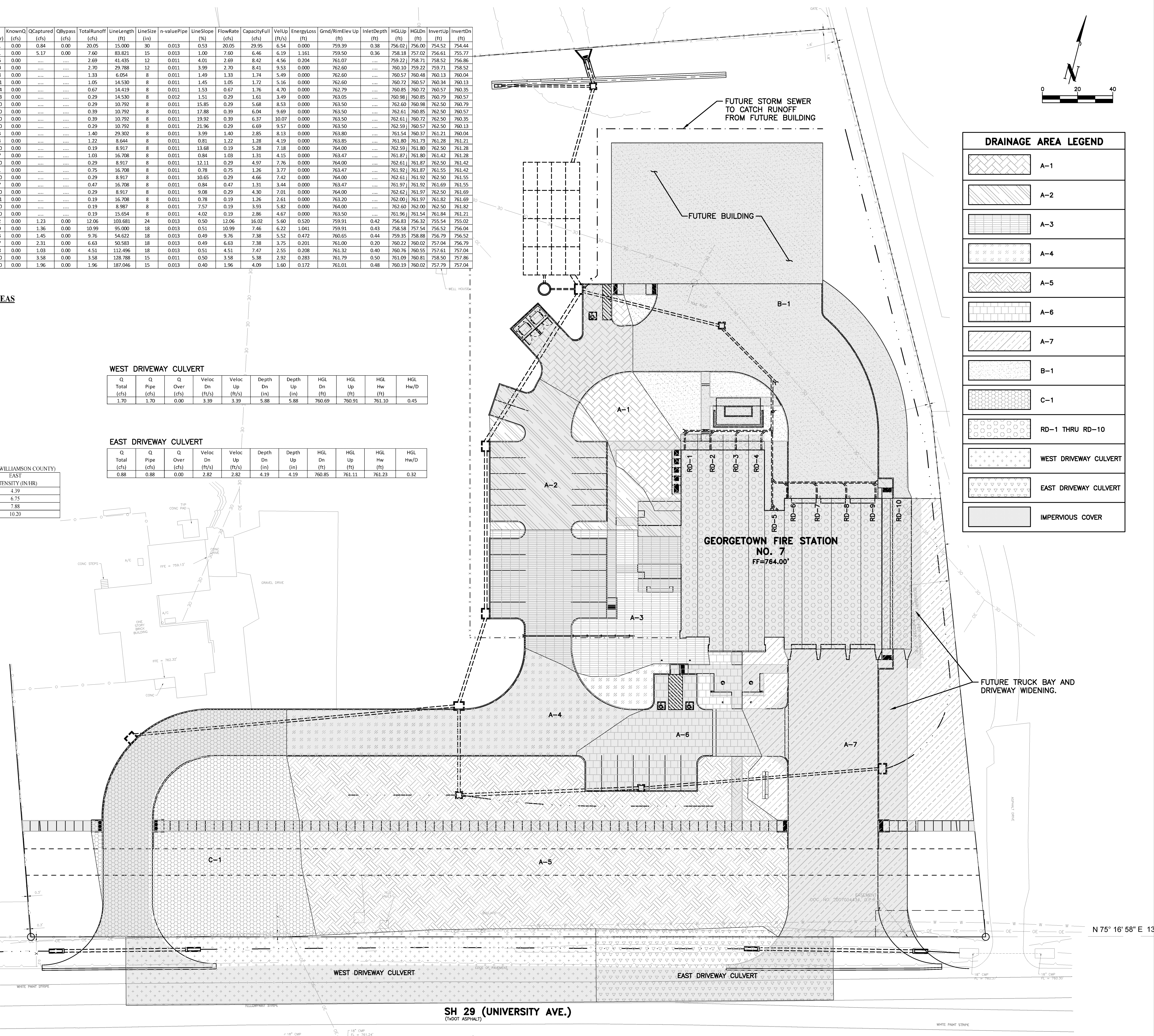
DESIGN STORM	FLOW (CFS)
2-YEAR	0.38
10-YEAR	0.58
25-YEAR	0.68
100-YEAR	0.88

WEST DRIVEWAY CULVERT

Q	Q	Q	Veloc	Veloc	Depth	Depth	HGL	HGL	HGL	HGL
Total	Pipe	Over	Dn	Up	Dn	Up	Dn	Up	Dn	Hw/D
(cfs)	(cfs)	(cfs)	(ft/s)	(ft/s)	(in)	(in)	(ft)	(ft)	(ft)	
1.70	1.70	0.00	3.39	3.39	5.88	5.88	760.69	760.91	761.10	0.45

EAST DRIVEWAY CULVERT

Q	Q	Q	Veloc	Veloc	Depth	Depth	HGL	HGL	HGL	HGL
Total	Pipe	Over	Dn	Up	Dn	Up	Dn	Up	Dn	Hw/D
(cfs)	(cfs)	(cfs)	(ft/s)	(ft/s)	(in)	(in)	(ft)	(ft)	(ft)	
0.88	0.88	0.00	2.82	2.82	4.19	4.19	760.85	761.11	761.23	0.32



DRAINAGE AREA LEGEND

- A-1
- A-2
- A-3
- A-4
- A-5
- A-6
- A-7
- B-1
- C-1
- RD-1 THRU RD-10
- WEST DRIVEWAY CULVERT
- EAST DRIVEWAY CULVERT
- IMPERVIOUS COVER

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Professional Engineer Seal for Robert C. Schmidt, State of Texas, No. 50485, Exp. 08/31/2018. Signature of Robert C. Schmidt dated 11/16/18.

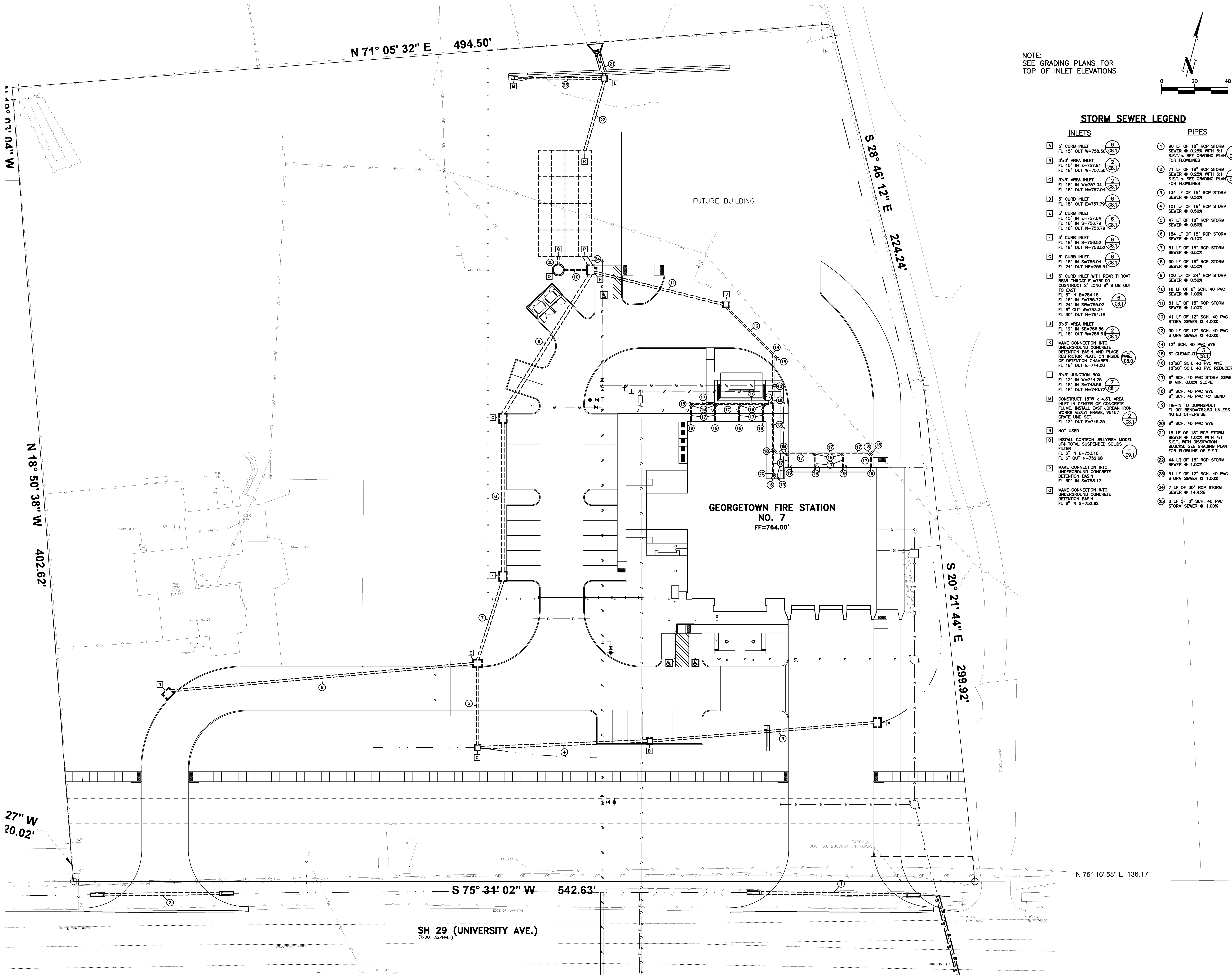
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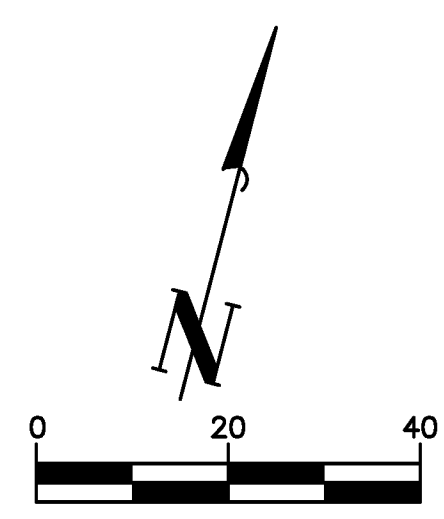
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C4.1
 STORM SEWER MAP AND SIZING CALCULATIONS



NOTE:
SEE GRADING PLANS FOR
TOP OF INLET ELEVATIONS



STORM SEWER LEGEND

- | INLETS | | PIPES | |
|--------|---|-------|---|
| A | 5' CURB INLET
FL 15" OUT W=758.50
CB.1 | 1 | 90 LF OF 18" RCP STORM SEWER @ 0.25% WITH 6:1 S.E.T., SEE GRADING PLAN FOR FLOWLINES |
| B | 3"x3" AREA INLET
FL 15" IN E=757.81
FL 18" OUT W=757.54
CB.1 | 2 | 71 LF OF 18" RCP STORM SEWER @ 0.25% WITH 6:1 S.E.T., SEE GRADING PLAN FOR FLOWLINES |
| C | 3"x3" AREA INLET
FL 18" IN W=757.04
FL 18" OUT N=757.00
CB.1 | 3 | 134 LF OF 18" RCP STORM SEWER @ 0.50% |
| D | 5' CURB INLET
FL 15" OUT E=757.78
CB.1 | 4 | 101 LF OF 18" RCP STORM SEWER @ 0.50% |
| E | 5' CURB INLET
FL 15" IN E=757.04
FL 18" IN S=756.79
FL 18" OUT N=756.70
CB.1 | 5 | 47 LF OF 18" RCP STORM SEWER @ 0.50% |
| F | 5' CURB INLET
FL 18" IN S=756.52
FL 18" OUT N=756.54
CB.1 | 6 | 184 LF OF 15" RCP STORM SEWER @ 0.40% |
| G | 5' CURB INLET
FL 18" IN S=756.04
FL 24" OUT NE=755.54
CB.1 | 7 | 51 LF OF 18" RCP STORM SEWER @ 0.50% |
| H | 5' CURB INLET WITH REAR THROAT REAR THROAT FL=759.00 CONSTRUCT 2' LONG 8" STUB OUT TO EAST
FL 8" IN E=754.18
FL 15" IN E=755.77
FL 24" IN SW=755.02
FL 6" OUT W=753.34
FL 30" OUT N=754.18
CB.1 | 8 | 90 LF OF 18" RCP STORM SEWER @ 0.50% |
| I | 3"x3" AREA INLET
FL 12" IN SE=756.88
FL 15" OUT W=756.6
FL 18" IN S=743.56
FL 18" OUT N=740.72
CB.1 | 9 | 100 LF OF 24" RCP STORM SEWER @ 1.00% |
| J | 3"x3" AREA INLET
FL 12" IN SE=756.88
FL 15" OUT W=756.6
FL 18" IN S=743.56
FL 18" OUT N=740.72
CB.1 | 10 | 18 LF OF 8" SCH. 40 PVC STORM SEWER @ 1.00% |
| K | MAKE CONNECTION INTO UNDERGROUND CONCRETE DETENTION BASIN AND PLACE RESTRICTOR PLATE ON INSIDE OF DETENTION CHAMBER
FL 18" OUT E=744.00
CB.0 | 11 | 81 LF OF 15" RCP STORM SEWER @ 1.00% |
| L | 3"x3" JUNCTION BOX
FL 12" IN W=744.75
FL 18" IN S=743.56
FL 18" OUT N=740.72
CB.1 | 12 | 41 LF OF 12" SCH. 40 PVC STORM SEWER @ 4.00% |
| M | CONSTRUCT 18"W x 4.3'L AREA INLET IN CENTER OF CONCRETE FLUME. INSTALL EAST JORDAN IRON WORKS V5751 FRAME, V5157 GRATE AND SET.
FL 12" OUT E=745.25
CB.1 | 13 | 30 LF OF 12" SCH. 40 PVC STORM SEWER @ 4.00% |
| N | NOT USED | 14 | 12" SCH. 40 PVC WYE |
| O | INSTALL CONTECH JELLYFISH MODEL #F4 TOTAL SUSPENDED SOLIDS FILTER
FL 6" IN E=753.18
FL 6" OUT N=752.68
CB.1 | 15 | 6" CLEANOUT |
| P | MAKE CONNECTION INTO UNDERGROUND CONCRETE DETENTION BASIN
FL 30" IN S=753.17 | 16 | 12"x8" SCH. 40 PVC WYE
12"x8" SCH. 40 PVC REDUCER |
| Q | MAKE CONNECTION INTO UNDERGROUND CONCRETE DETENTION BASIN
FL 6" IN S=752.62 | 17 | 8" SCH. 40 PVC WYE
8" SCH. 40 PVC 45° BEND |
| | | 18 | 8" SCH. 40 PVC WYE
8" SCH. 40 PVC 45° BEND |
| | | 19 | TIE-IN TO DOWNSPOUT
FL 90° BEND=762.50 UNLESS NOTED OTHERWISE
CB.1 |
| | | 20 | 8" SCH. 40 PVC WYE |
| | | 21 | 15 LF OF 18" RCP STORM SEWER @ 1.00% WITH 4:1 S.E.T. WITH DISSIPATION BLOCKS. SEE GRADING PLAN FOR FLOWLINE OF S.E.T. |
| | | 22 | 44 LF OF 18" RCP STORM SEWER @ 1.00% |
| | | 23 | 51 LF OF 12" SCH. 40 PVC STORM SEWER @ 1.00% |
| | | 24 | 7 LF OF 30" RCP STORM SEWER @ 14:3% |
| | | 25 | 8 LF OF 8" SCH. 40 PVC STORM SEWER @ 1.00% |

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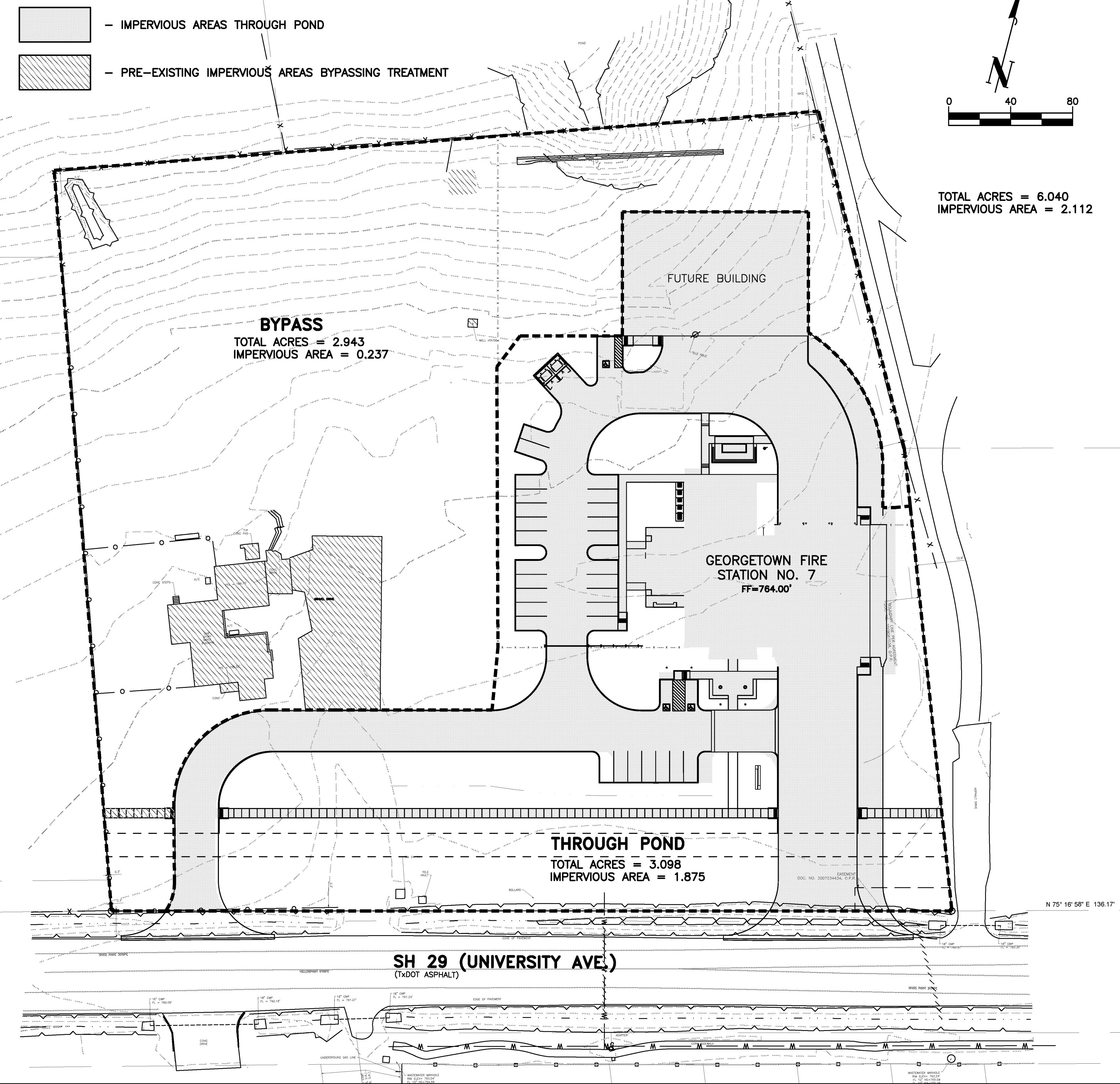
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C4.2
STORM SEWER DRAINAGE PLAN

PRE-DEVELOPMENT SITE FROM ARIAL IMAGERY FROM 1974



POST-DEVELOPMENT SITE



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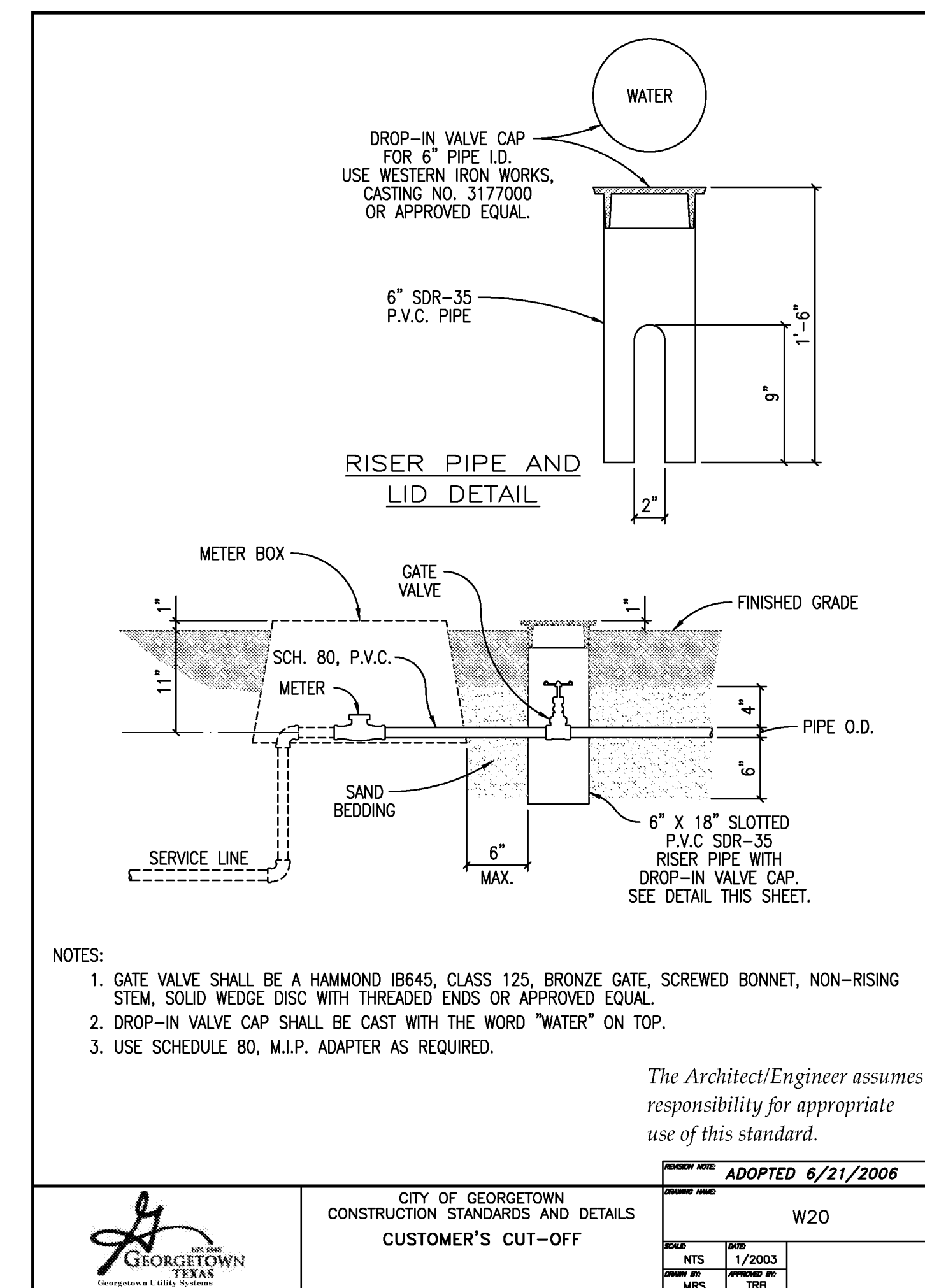
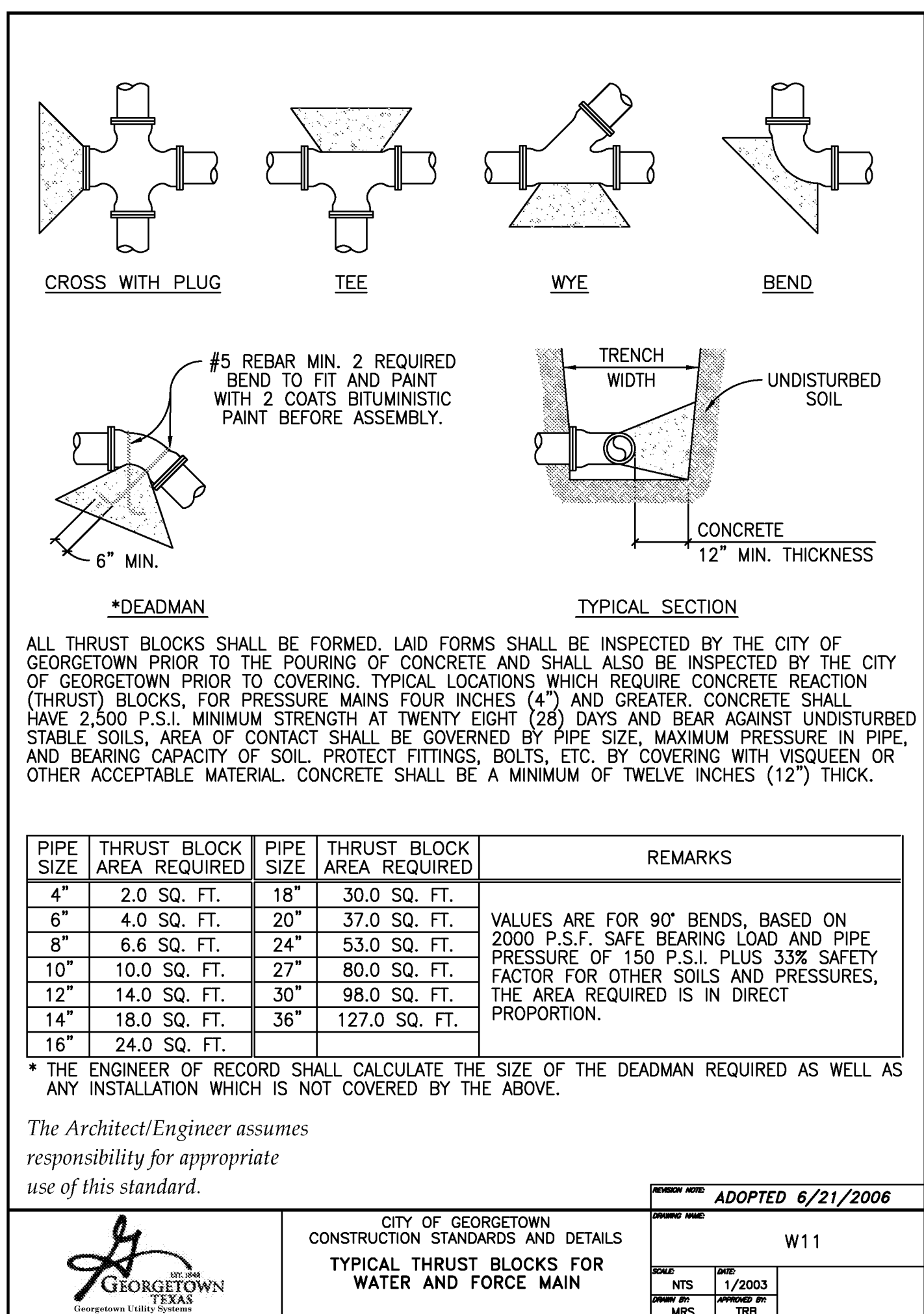
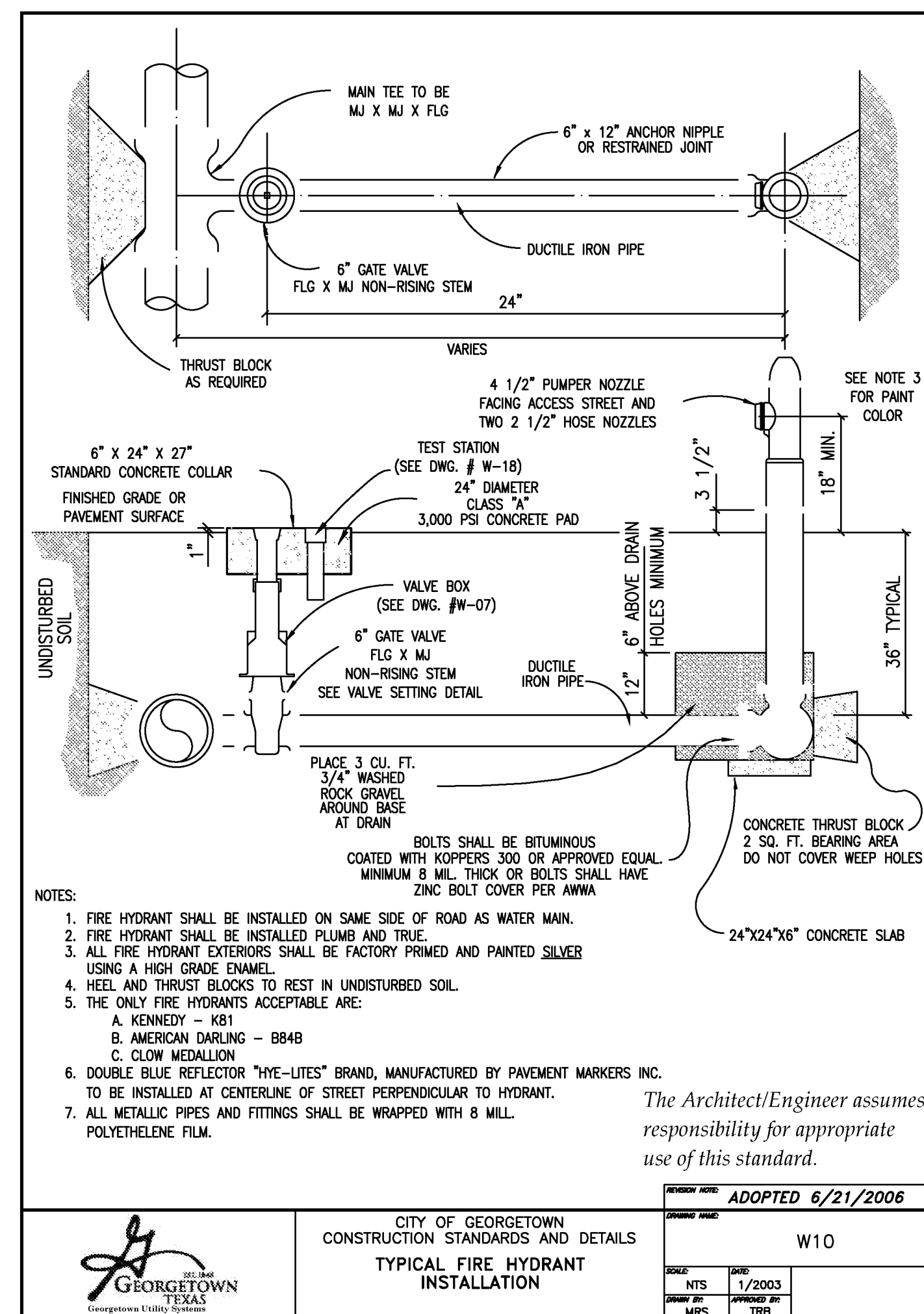
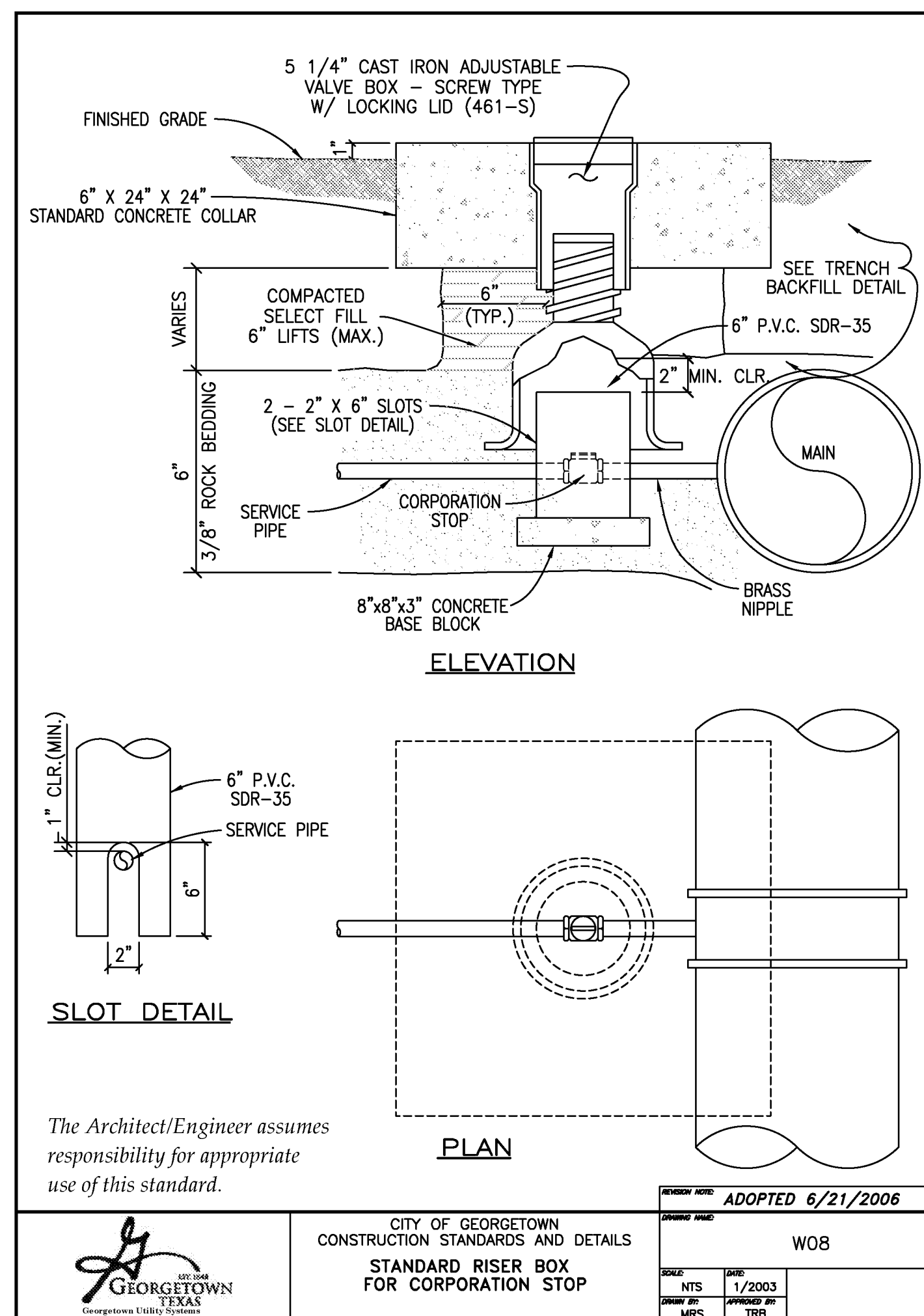
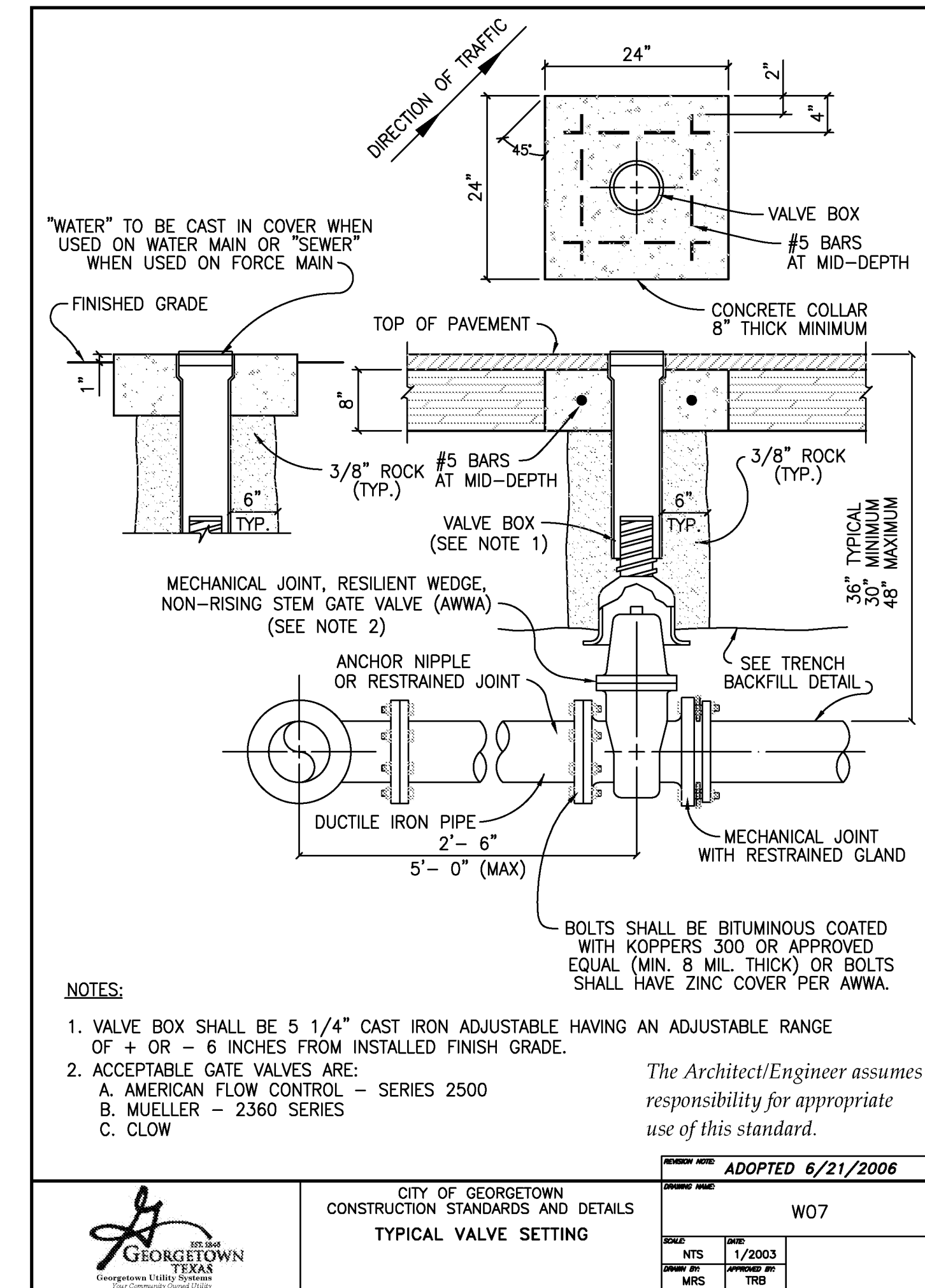
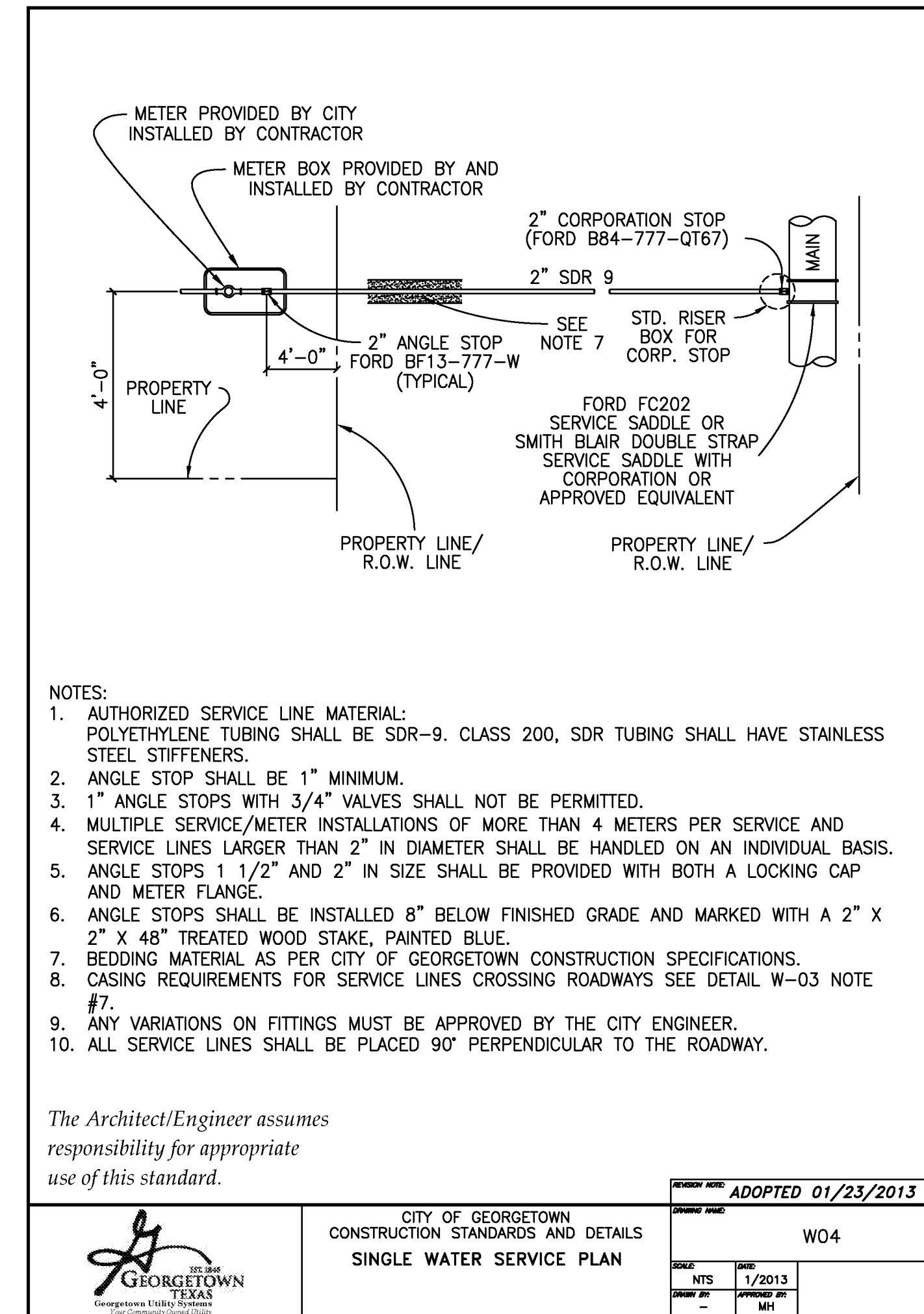
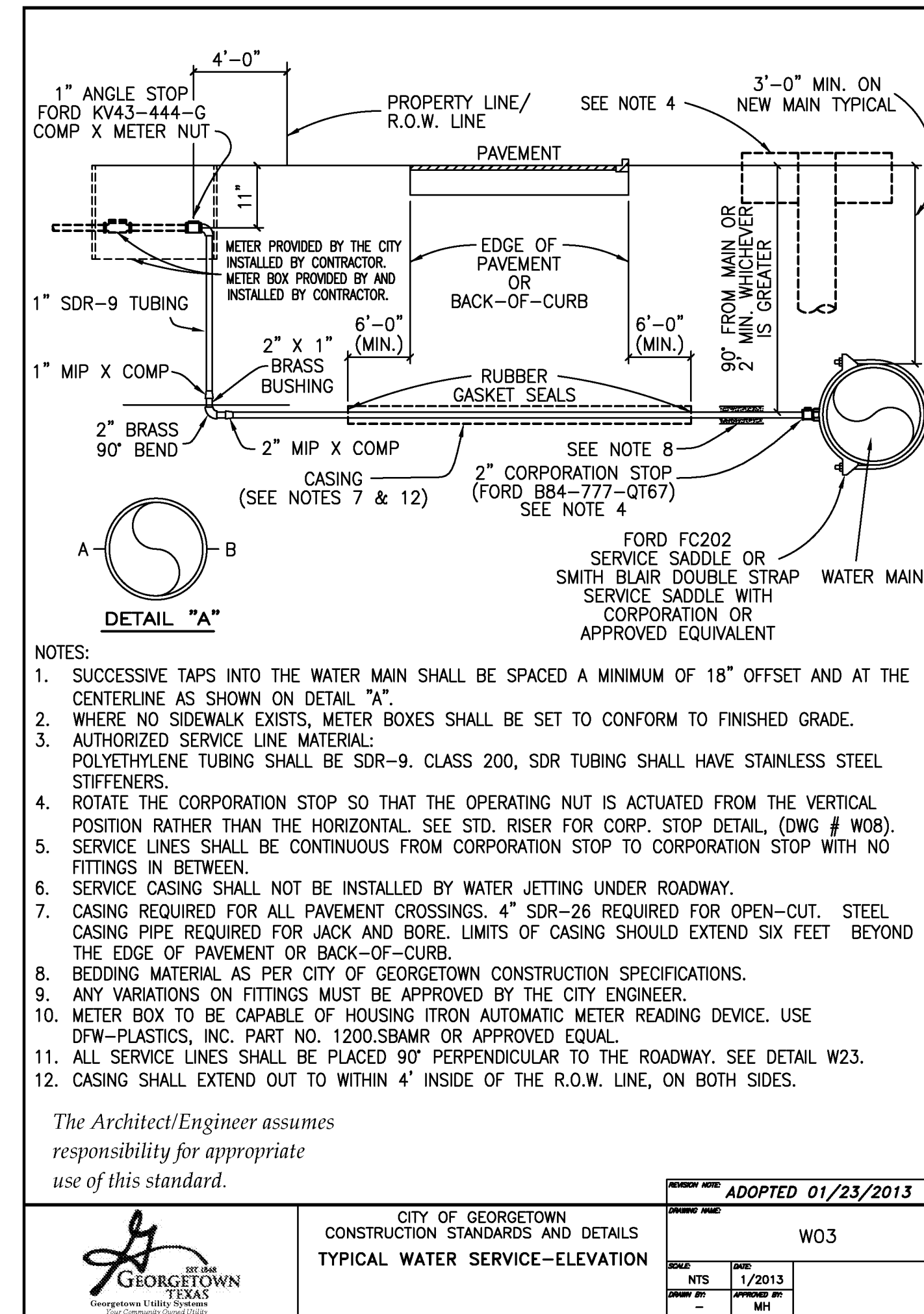
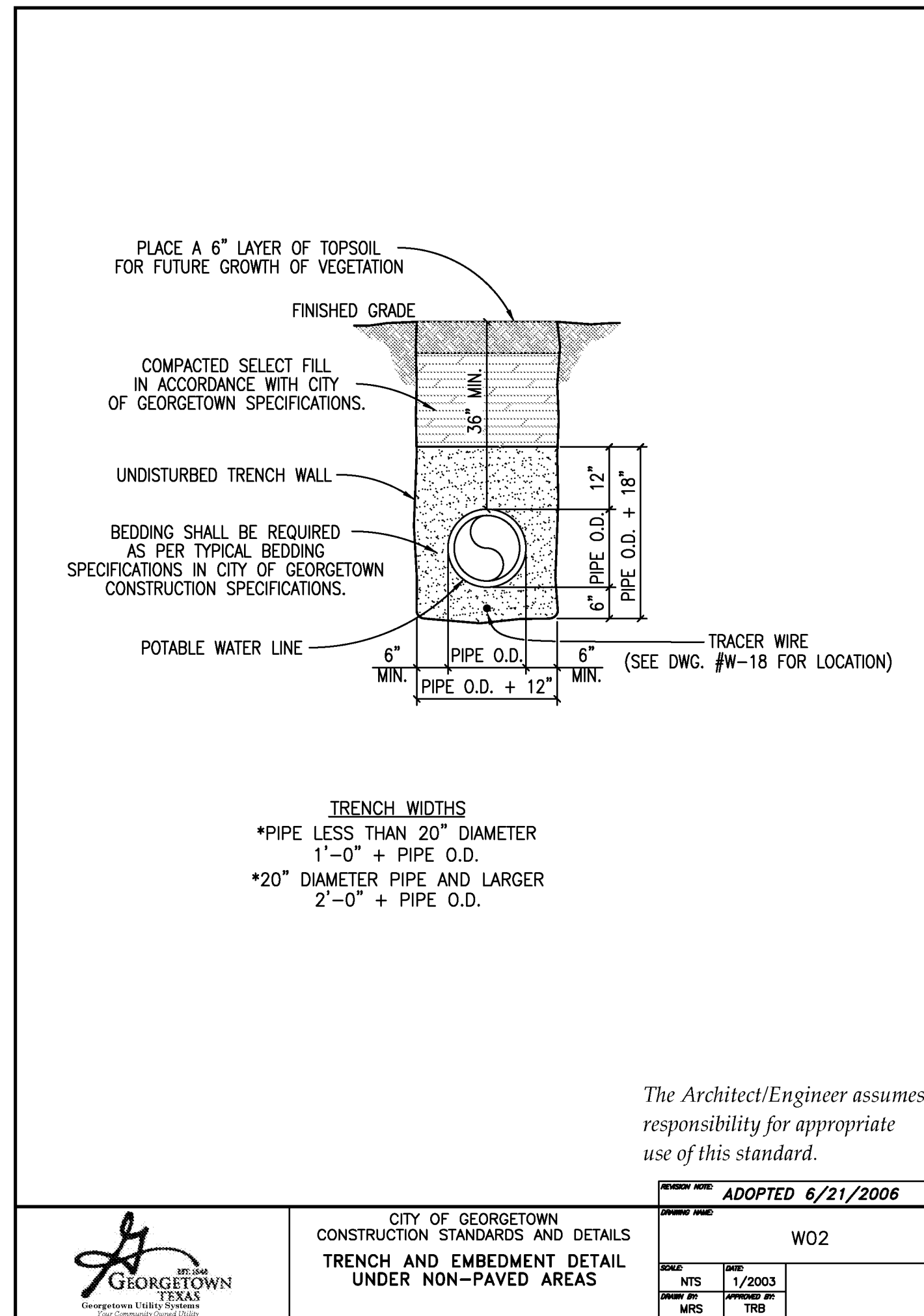
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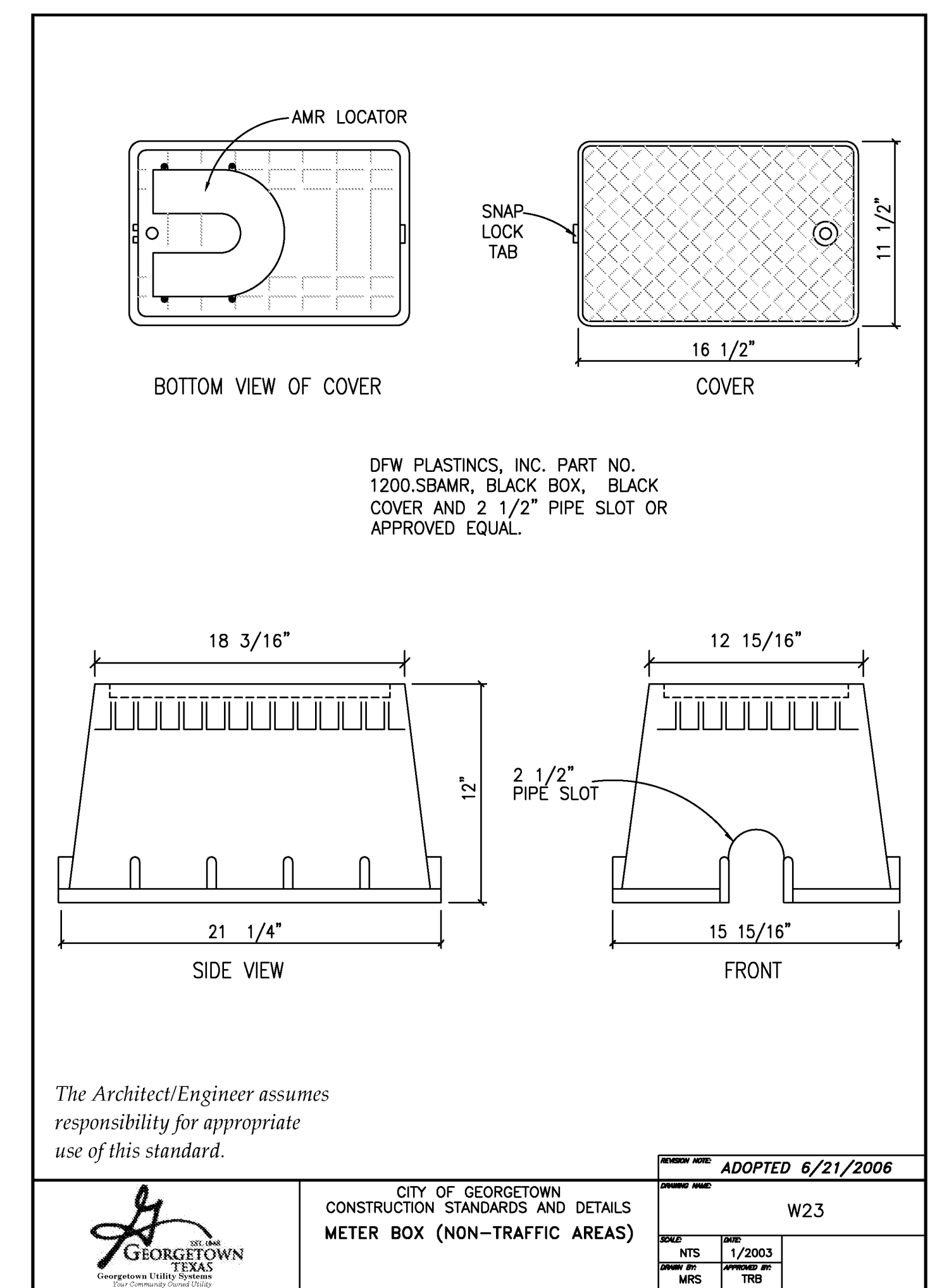
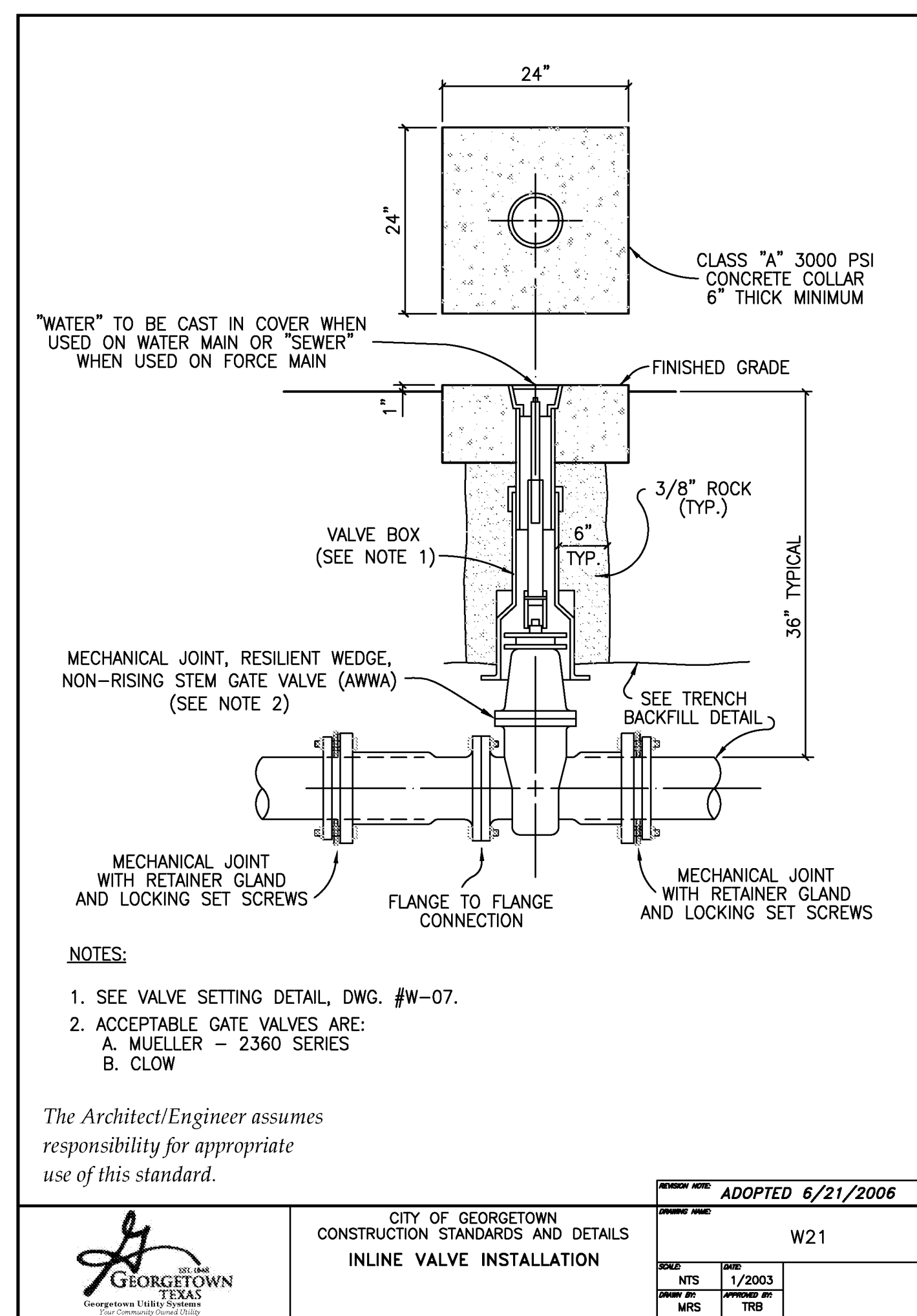
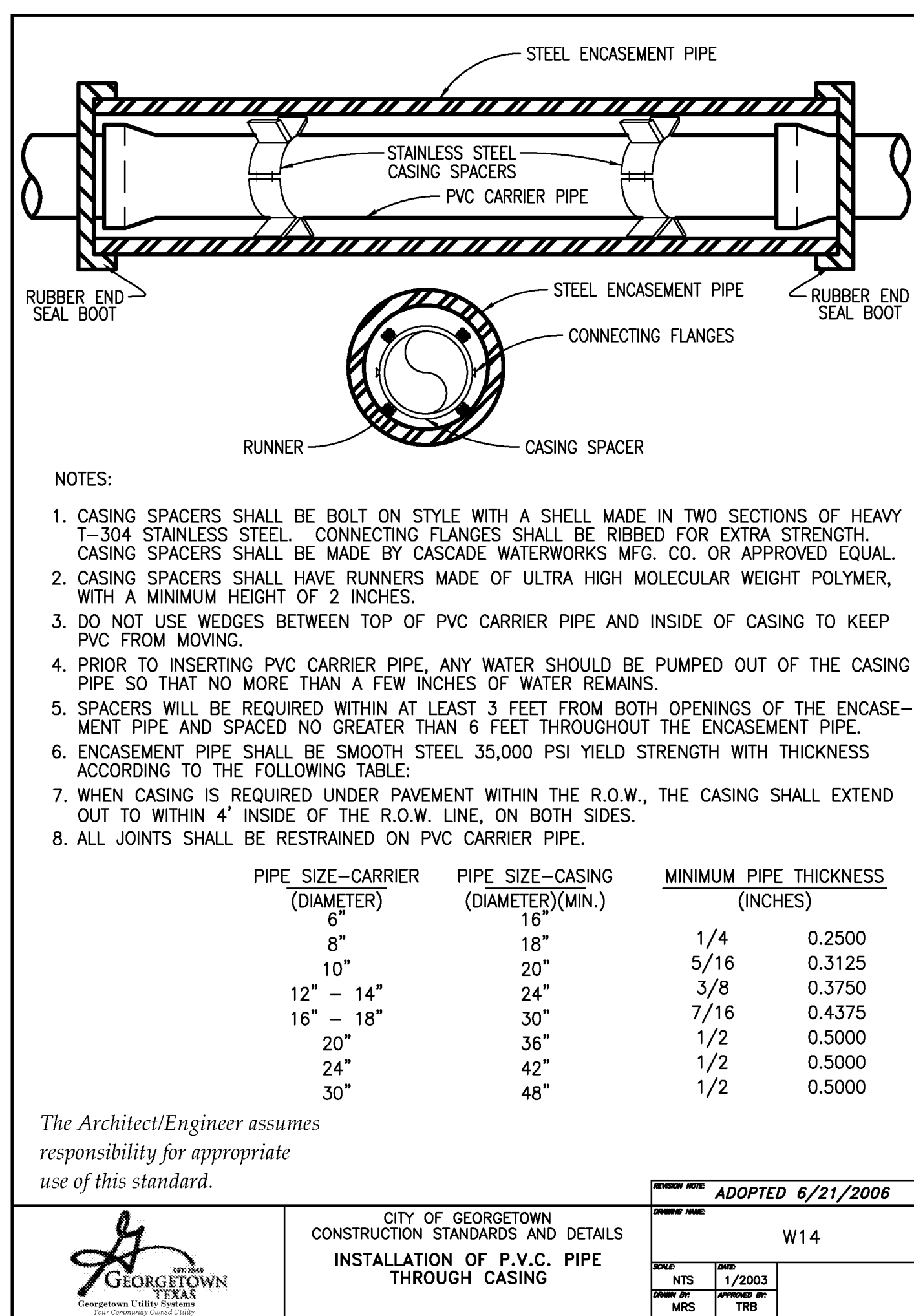
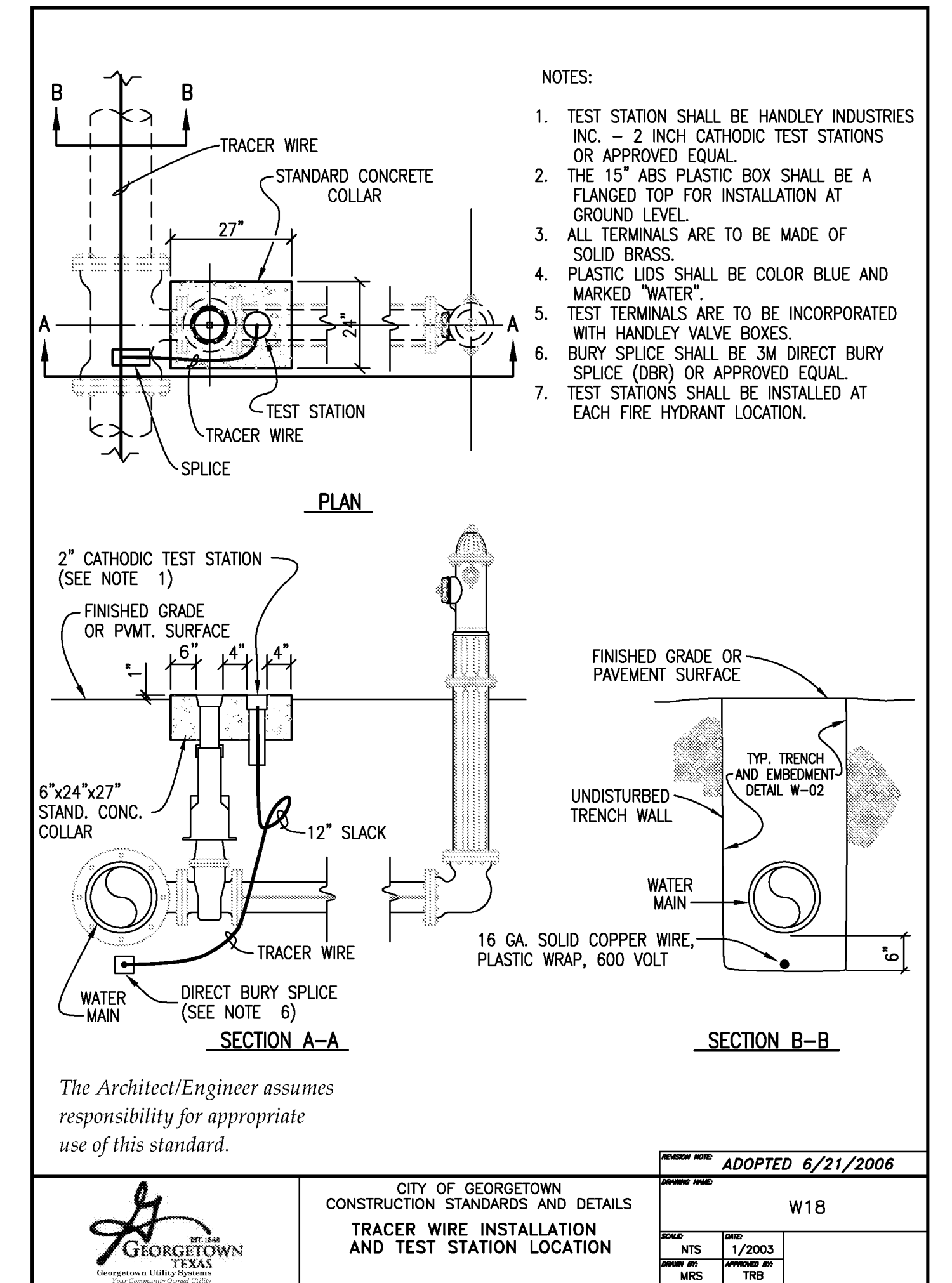
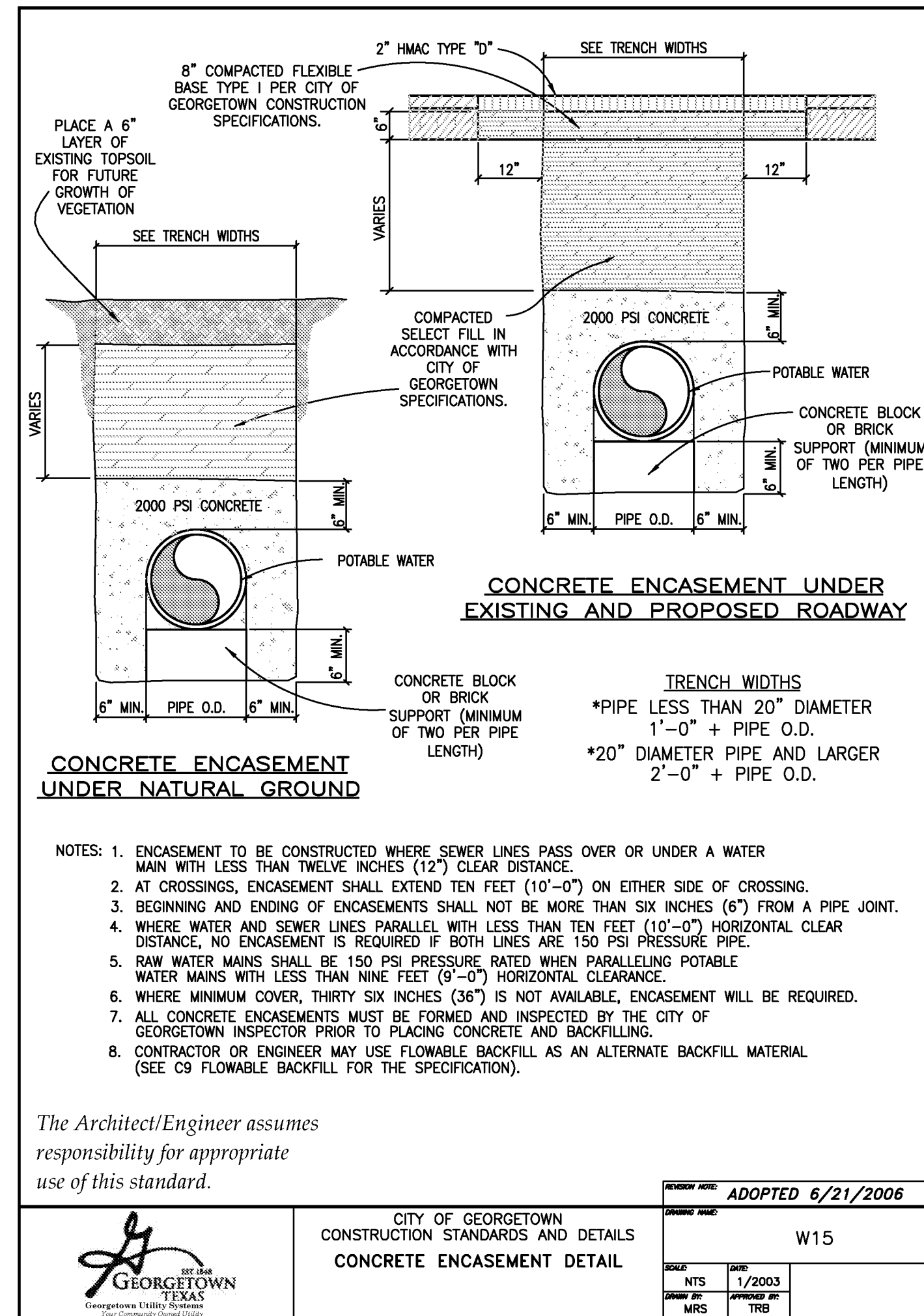
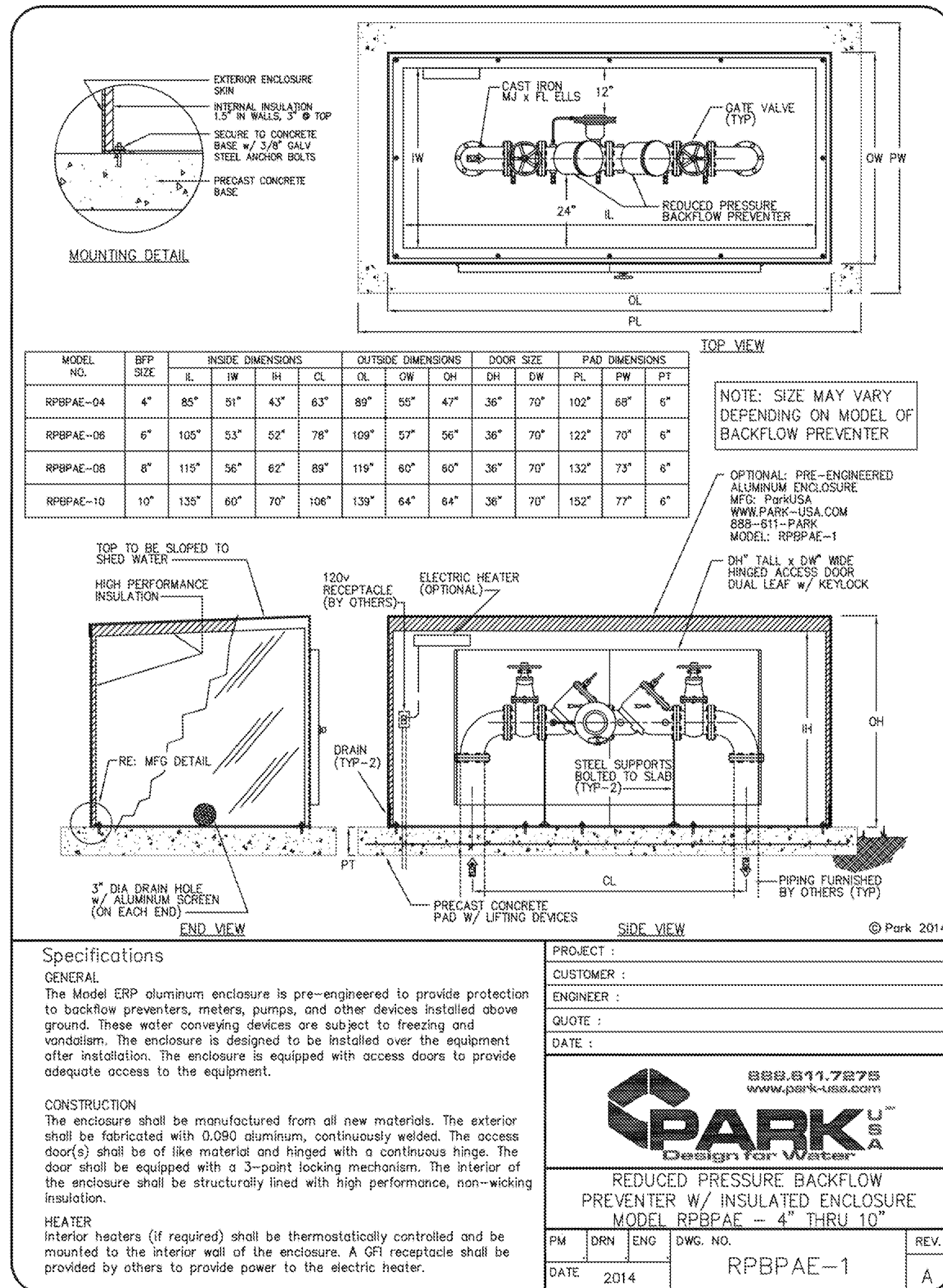
CITY OF GEORGETOWN
FIRE STATION No. 7
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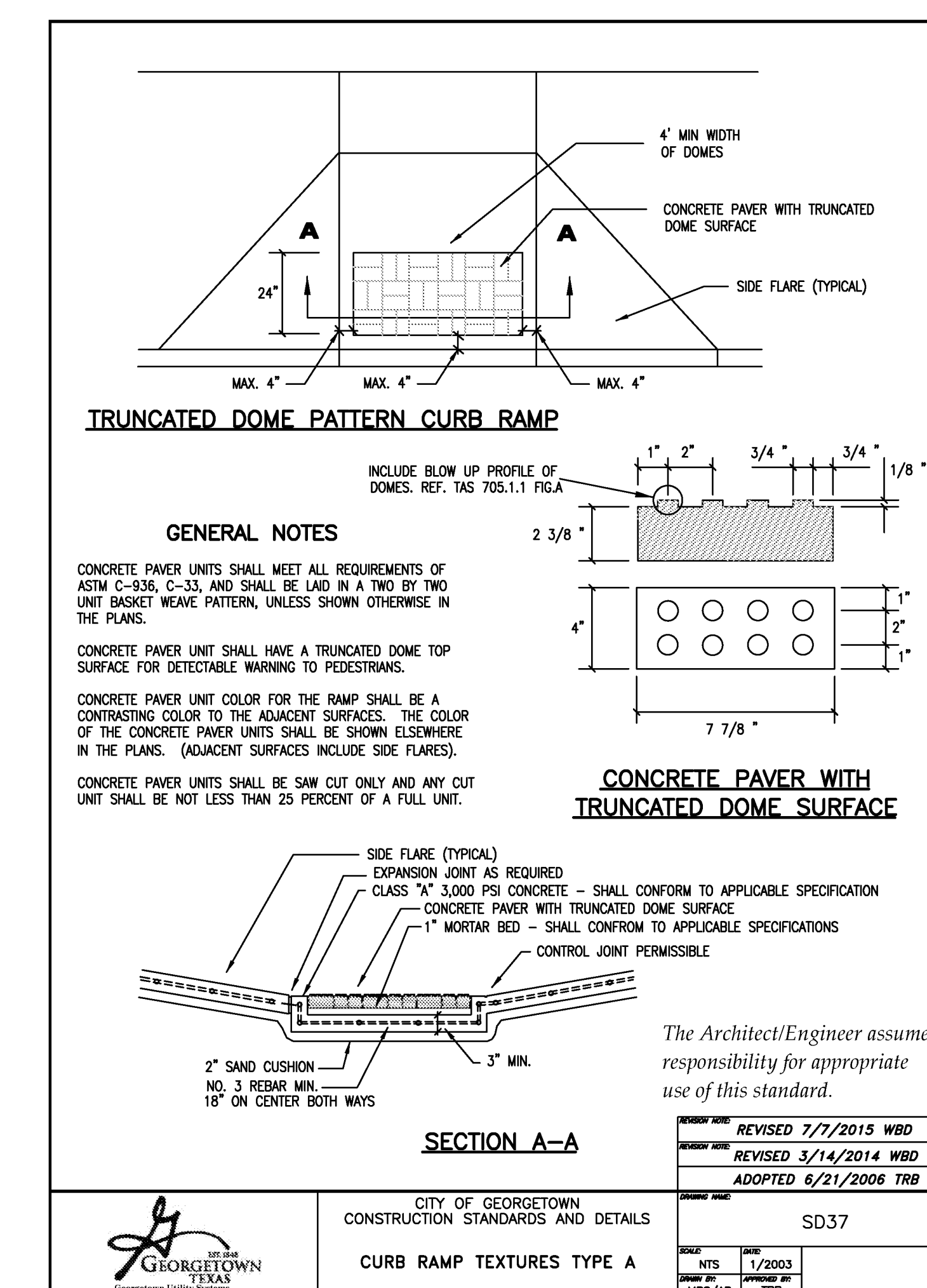
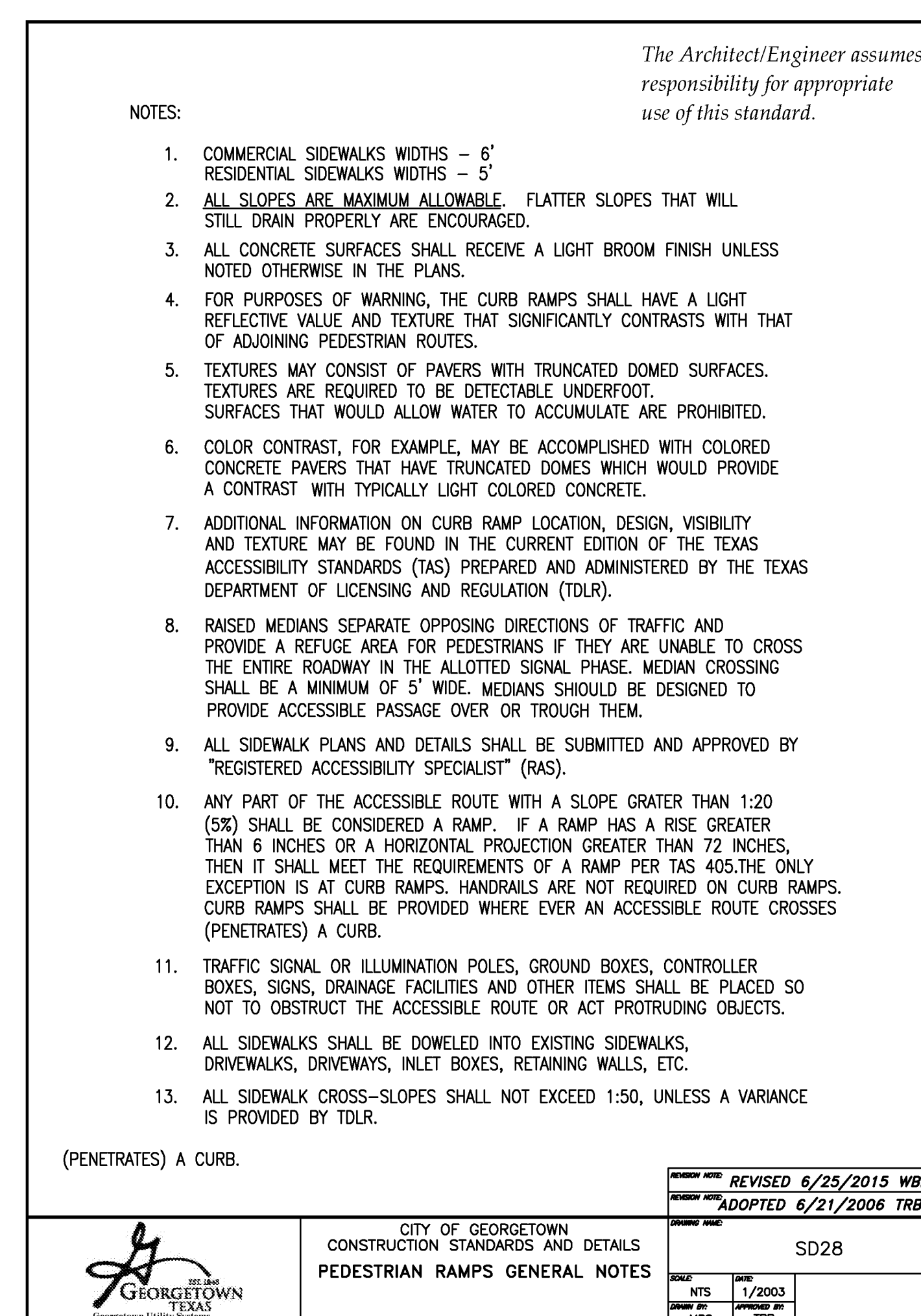
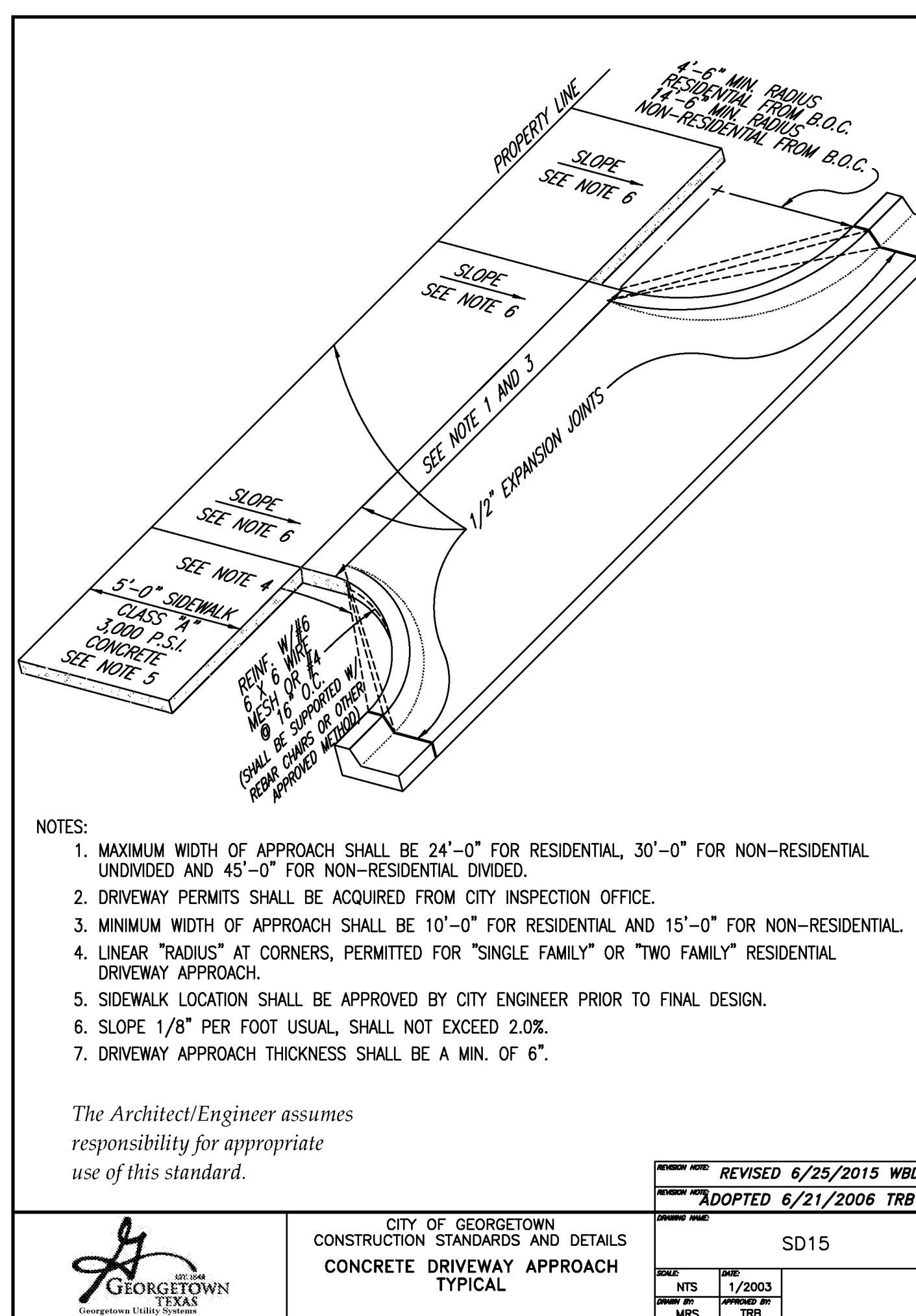
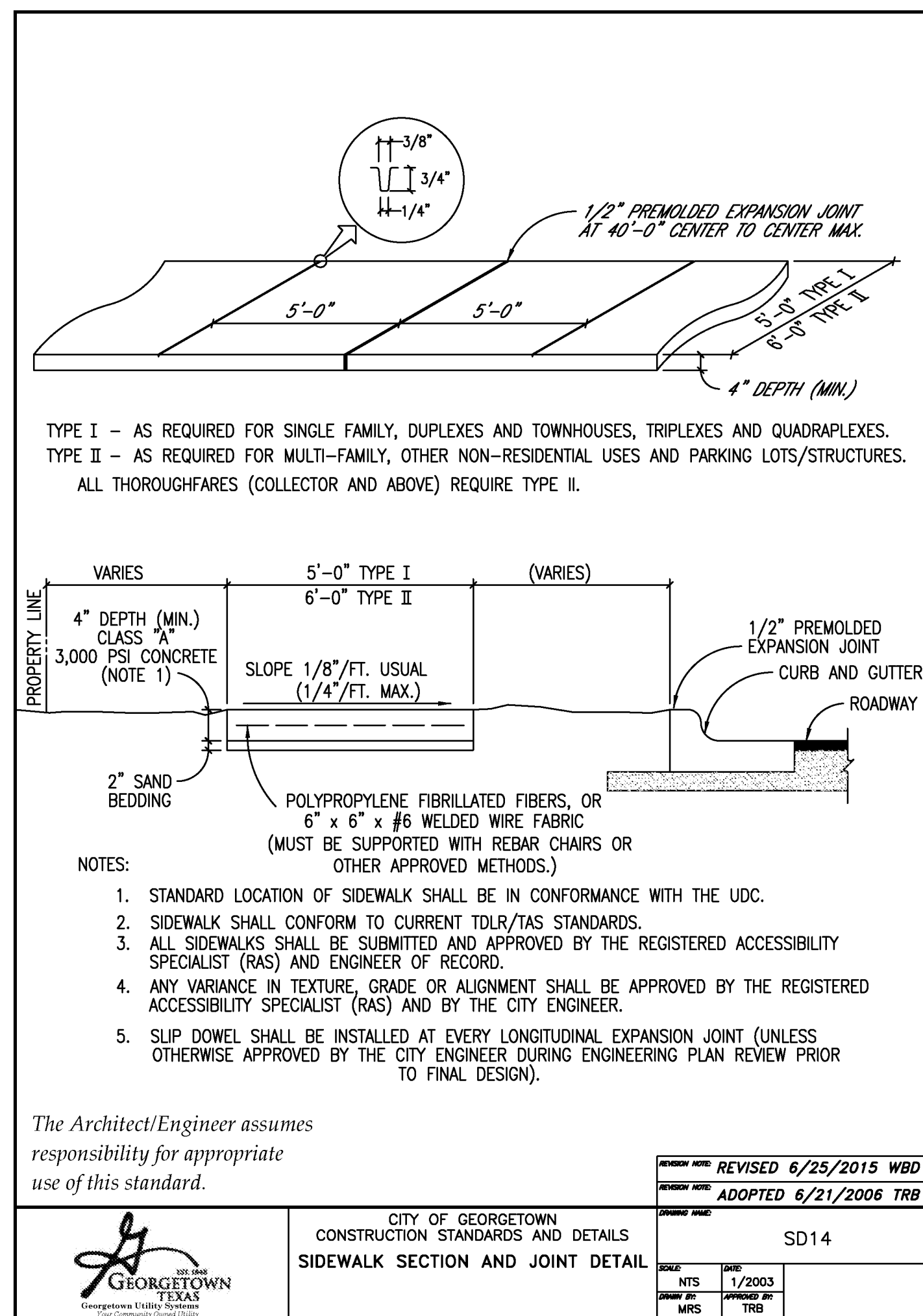
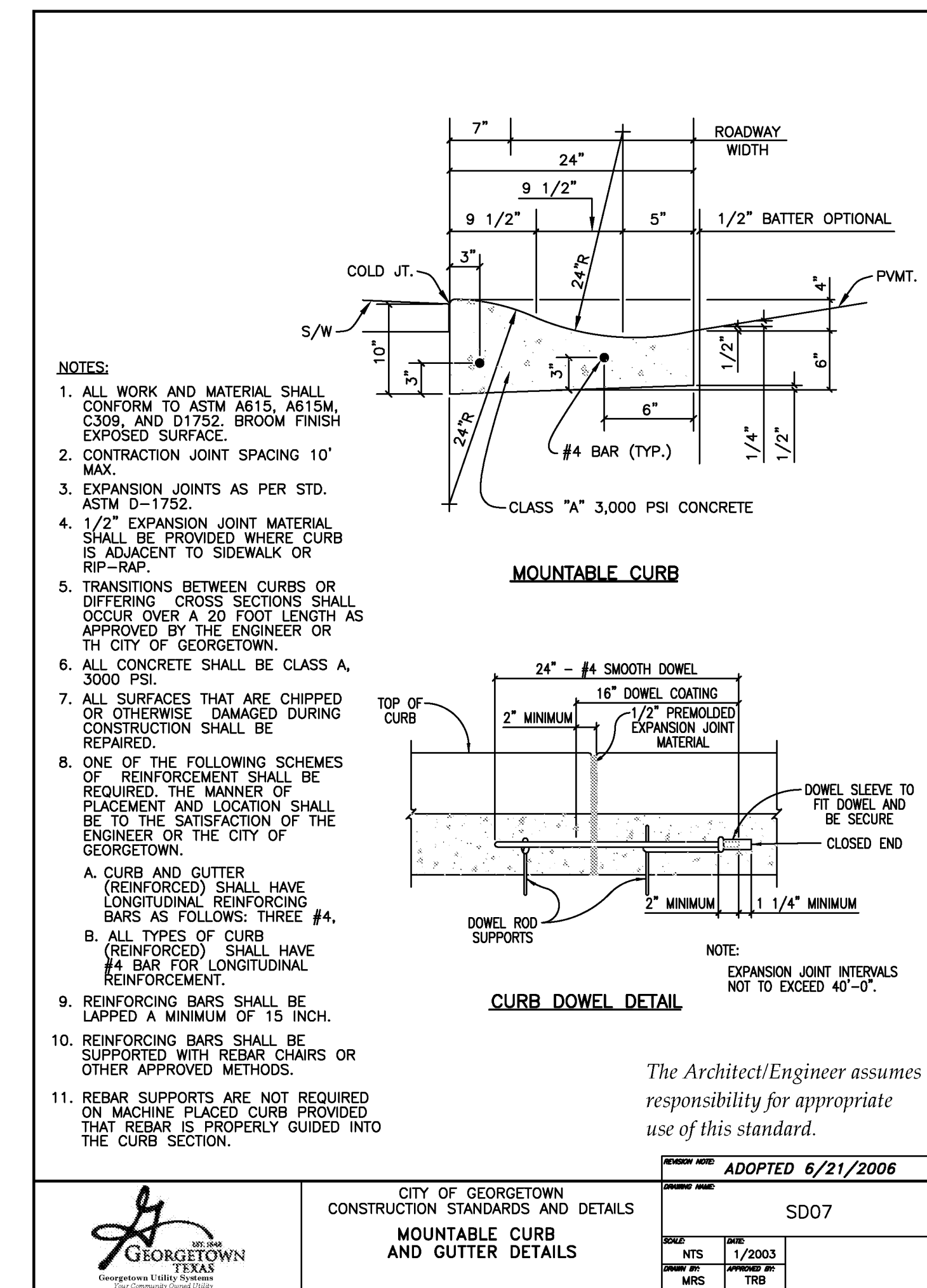
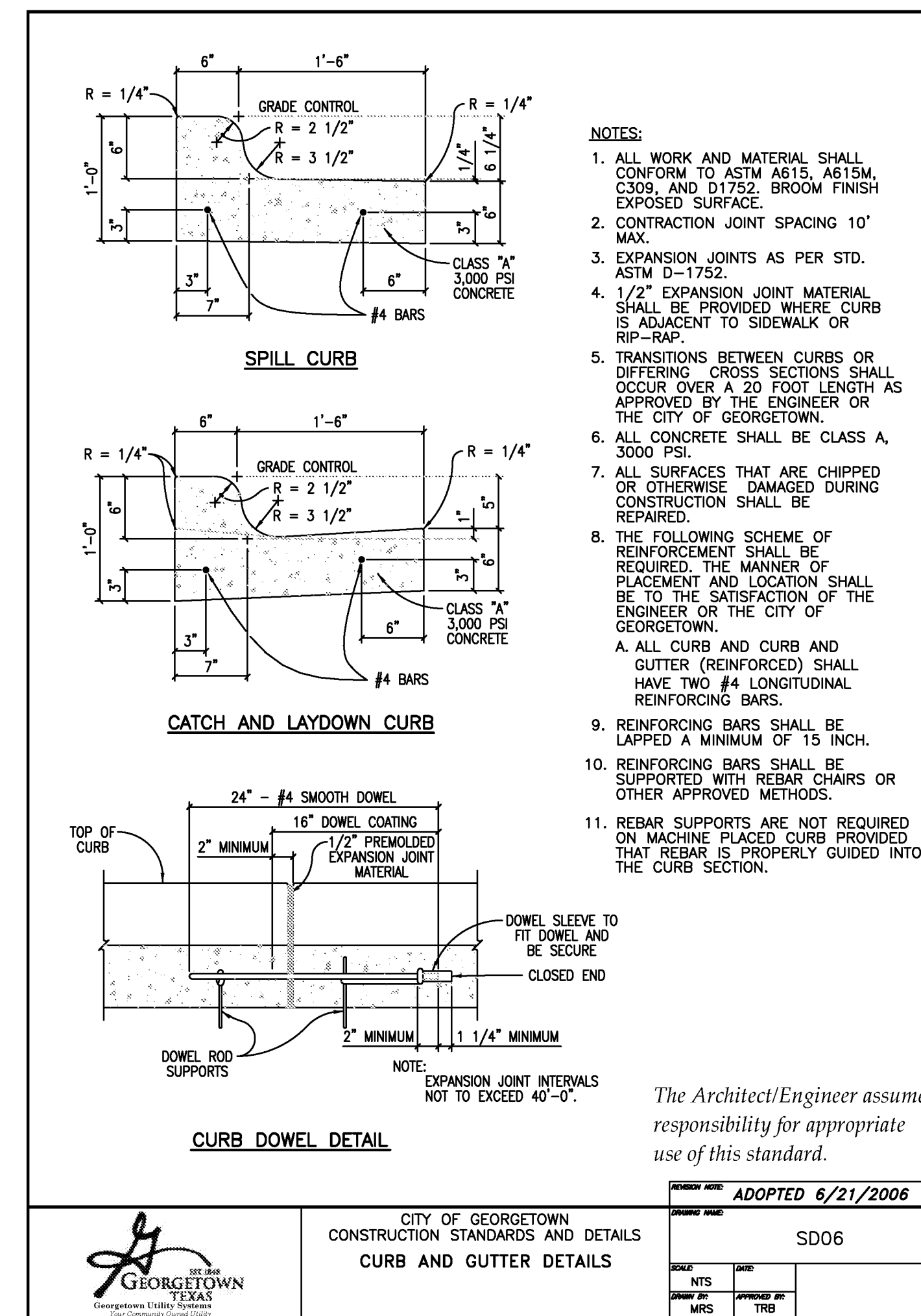
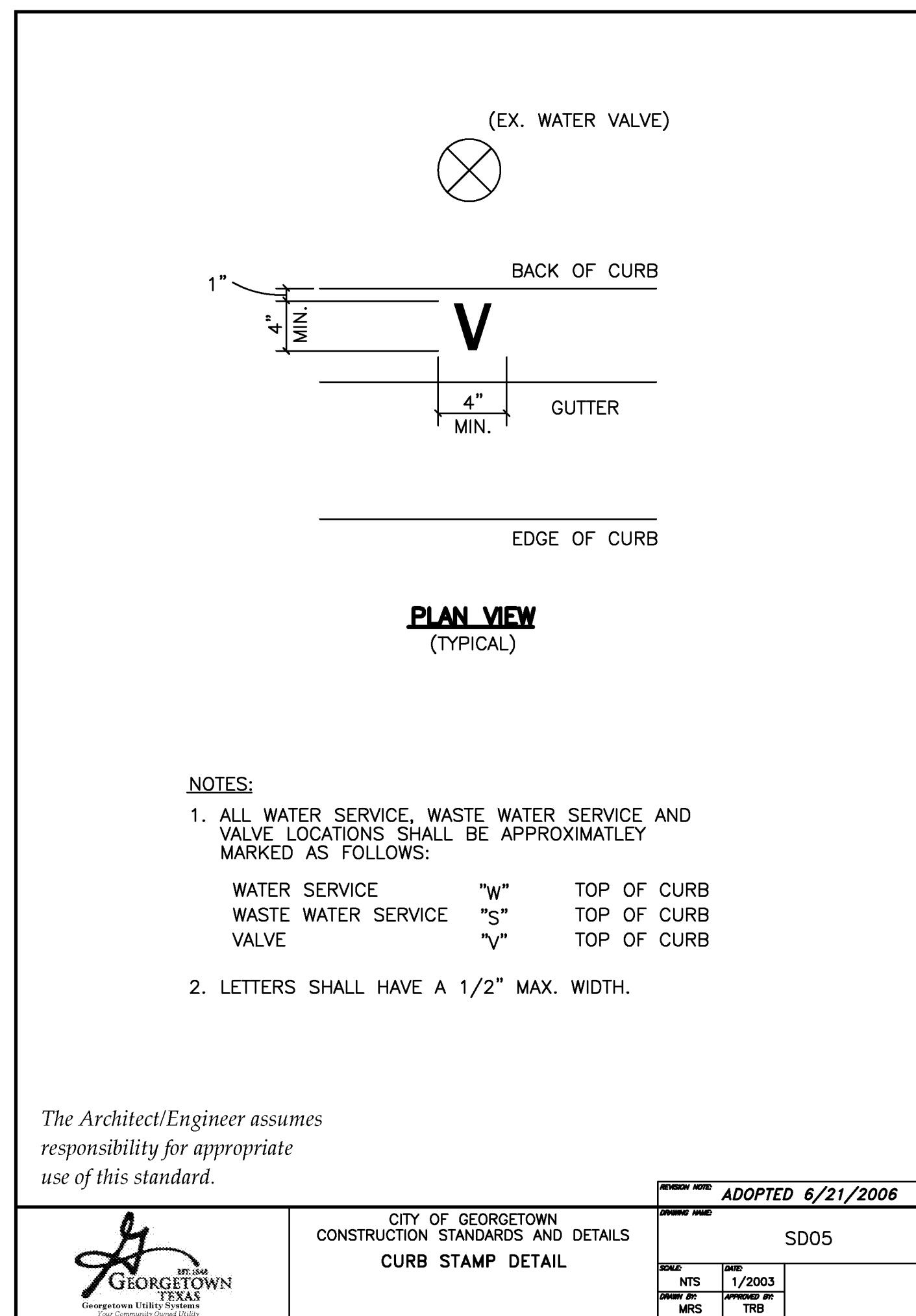
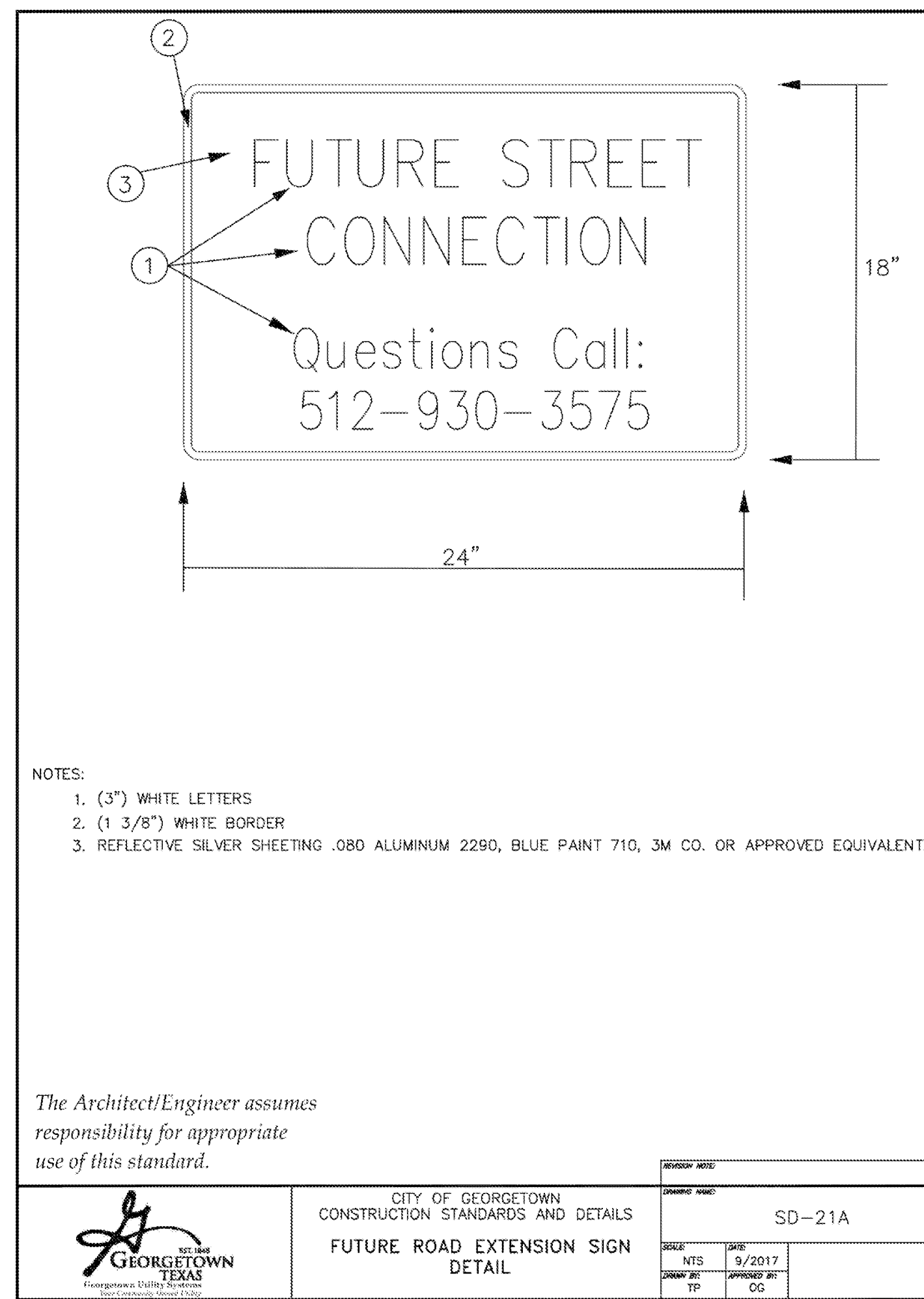
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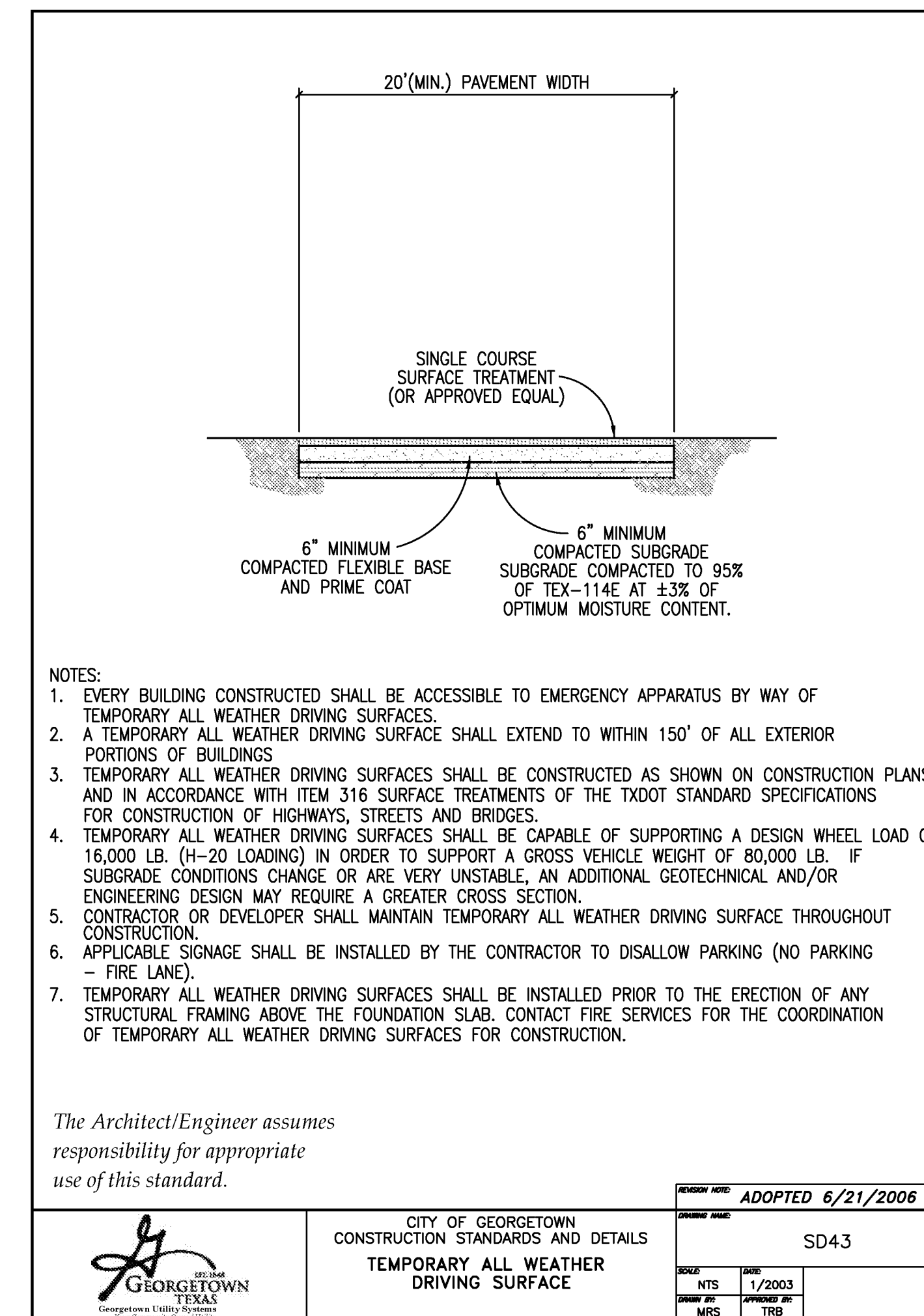
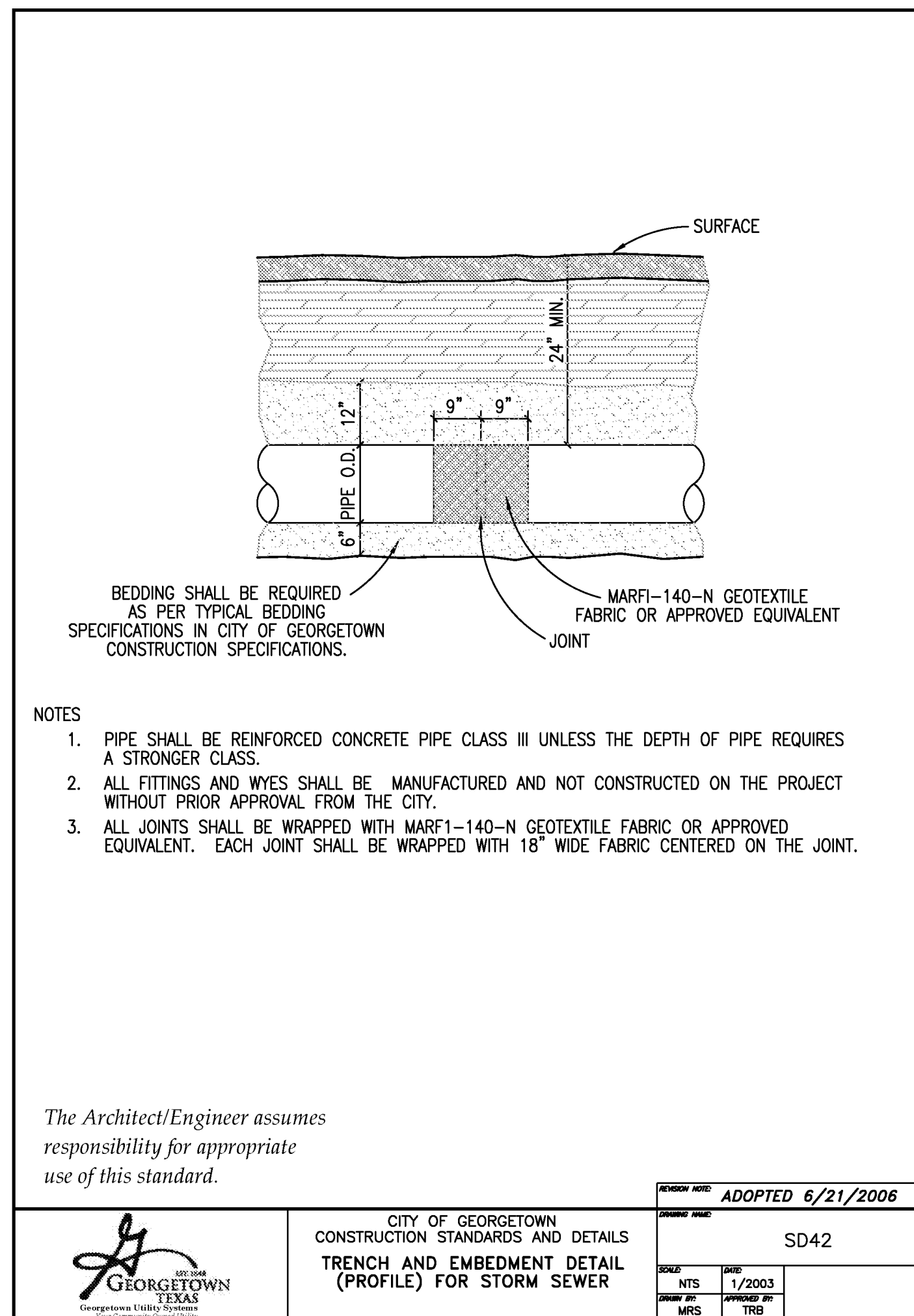
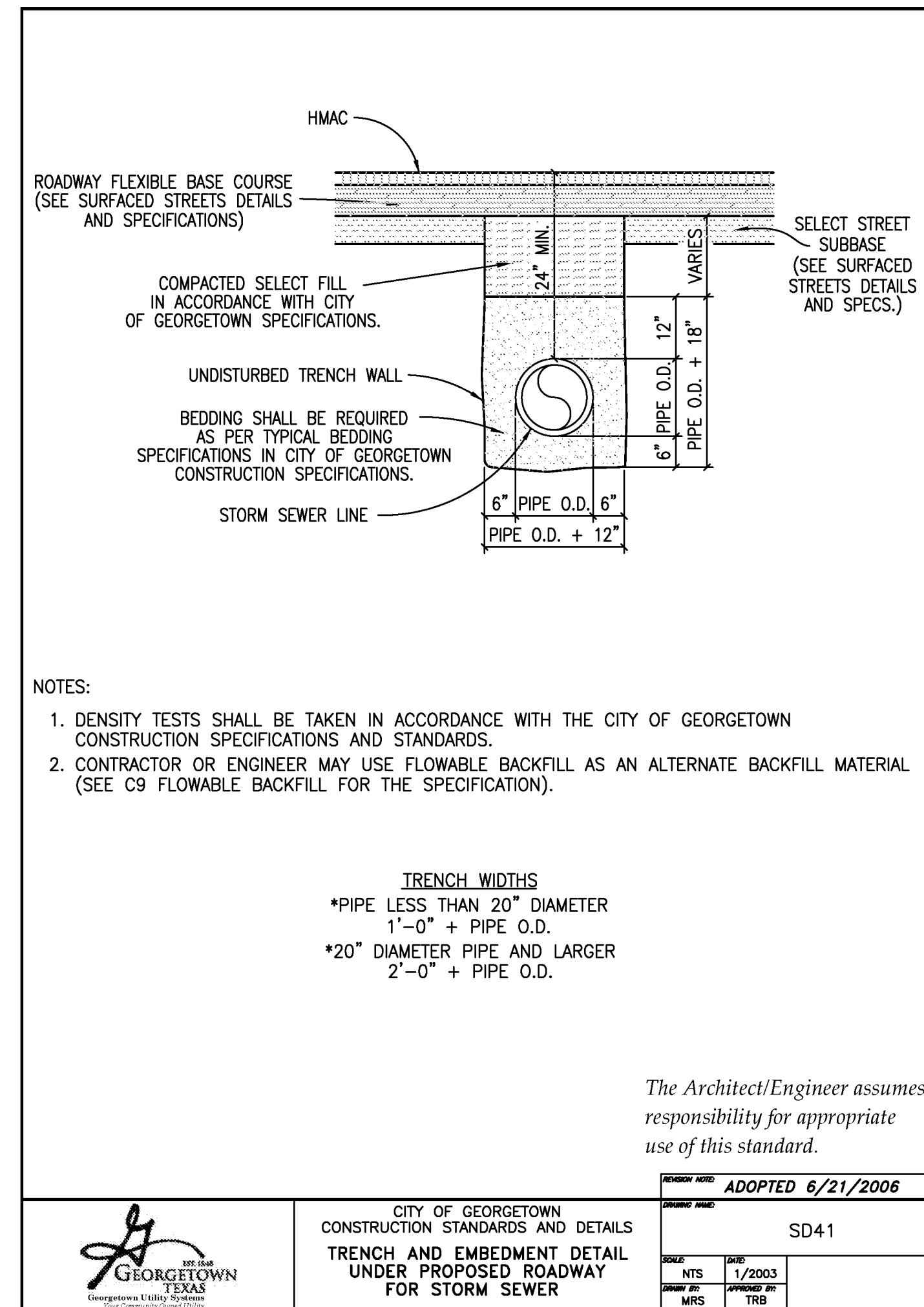
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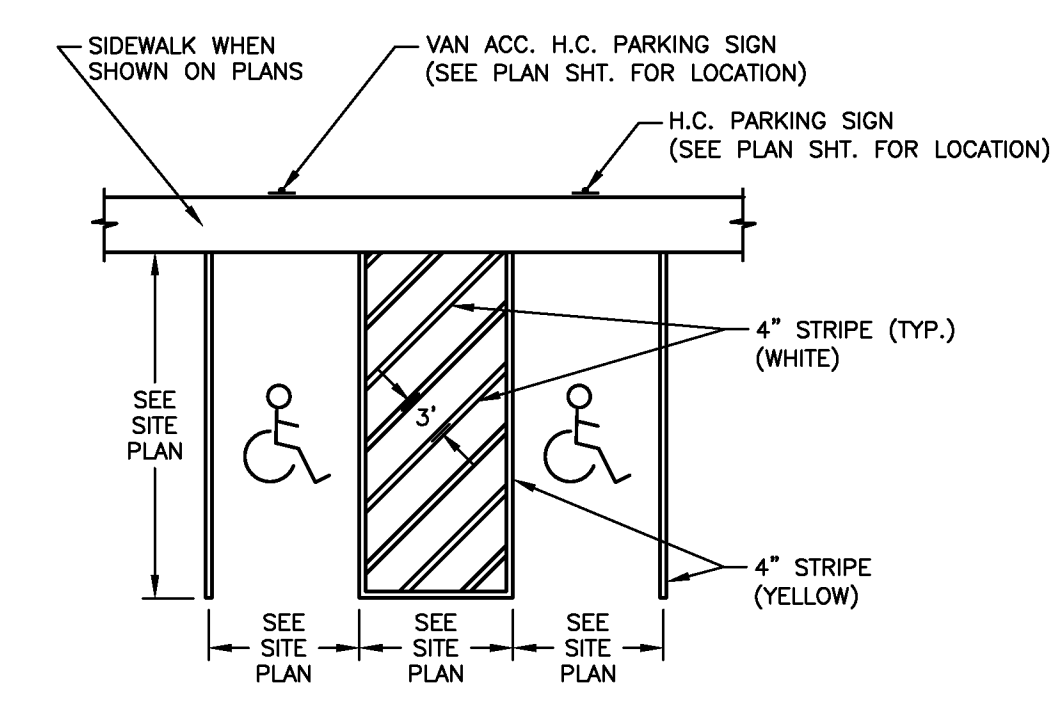
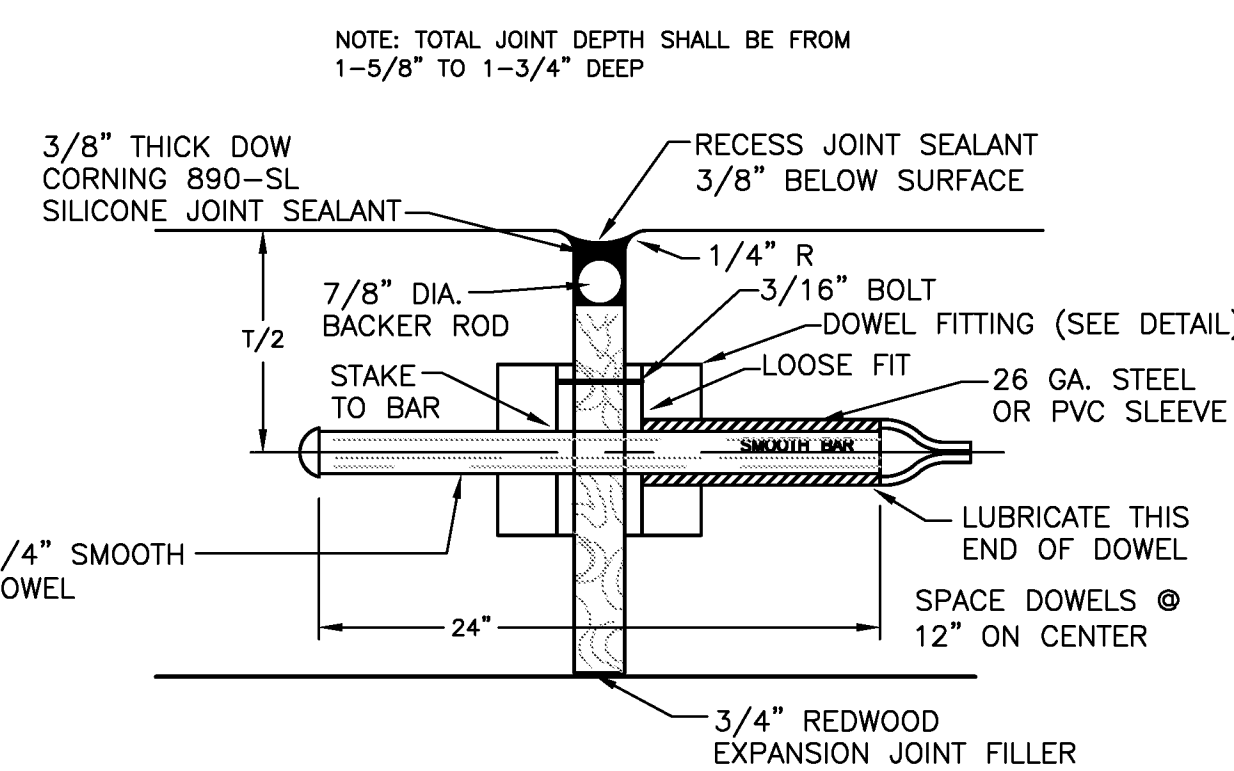
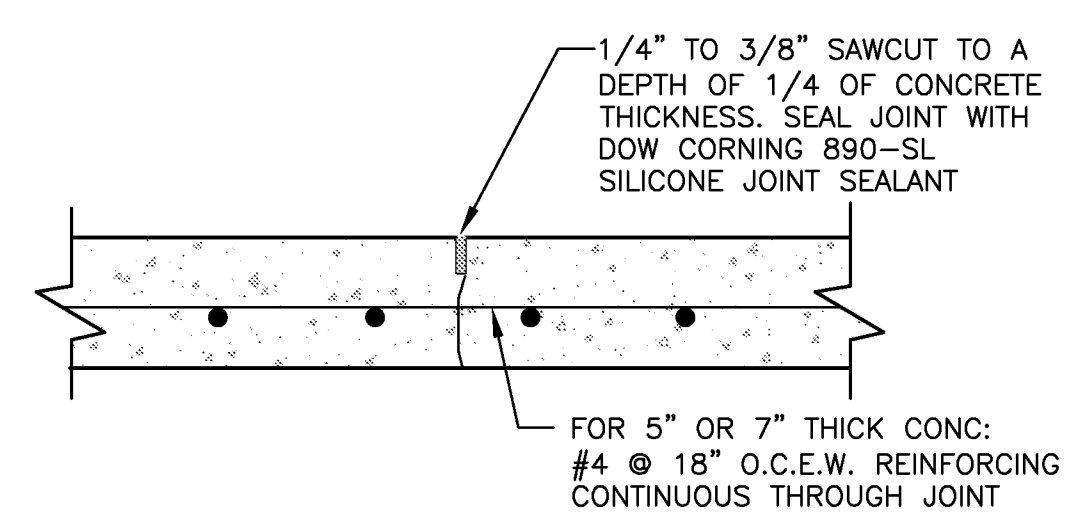
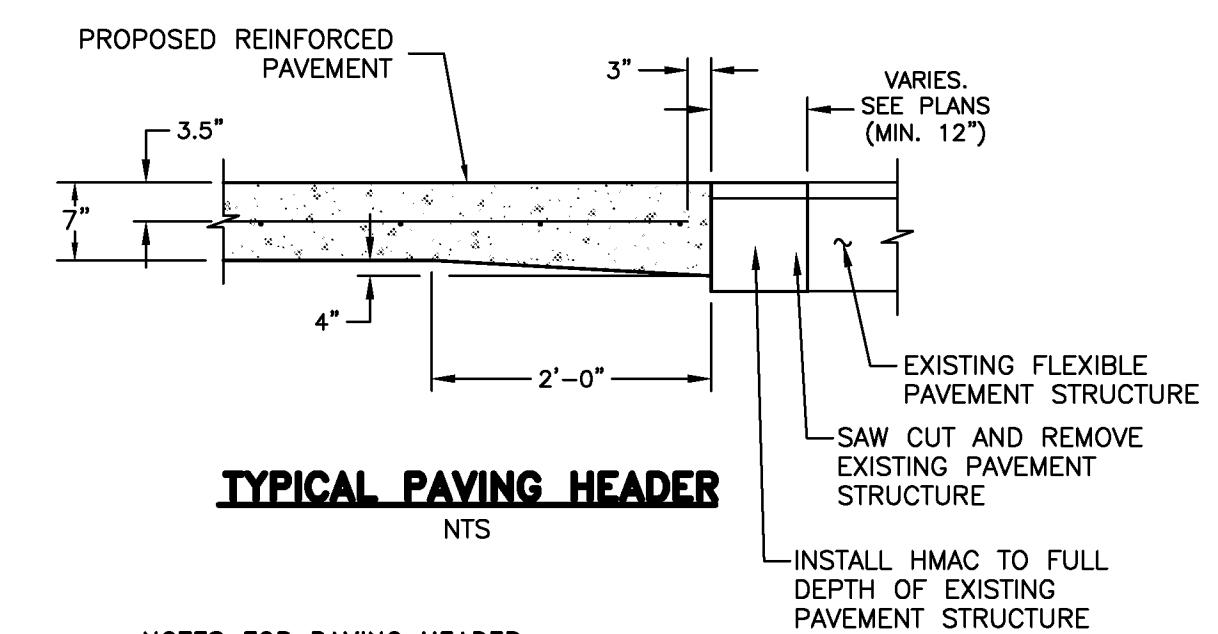
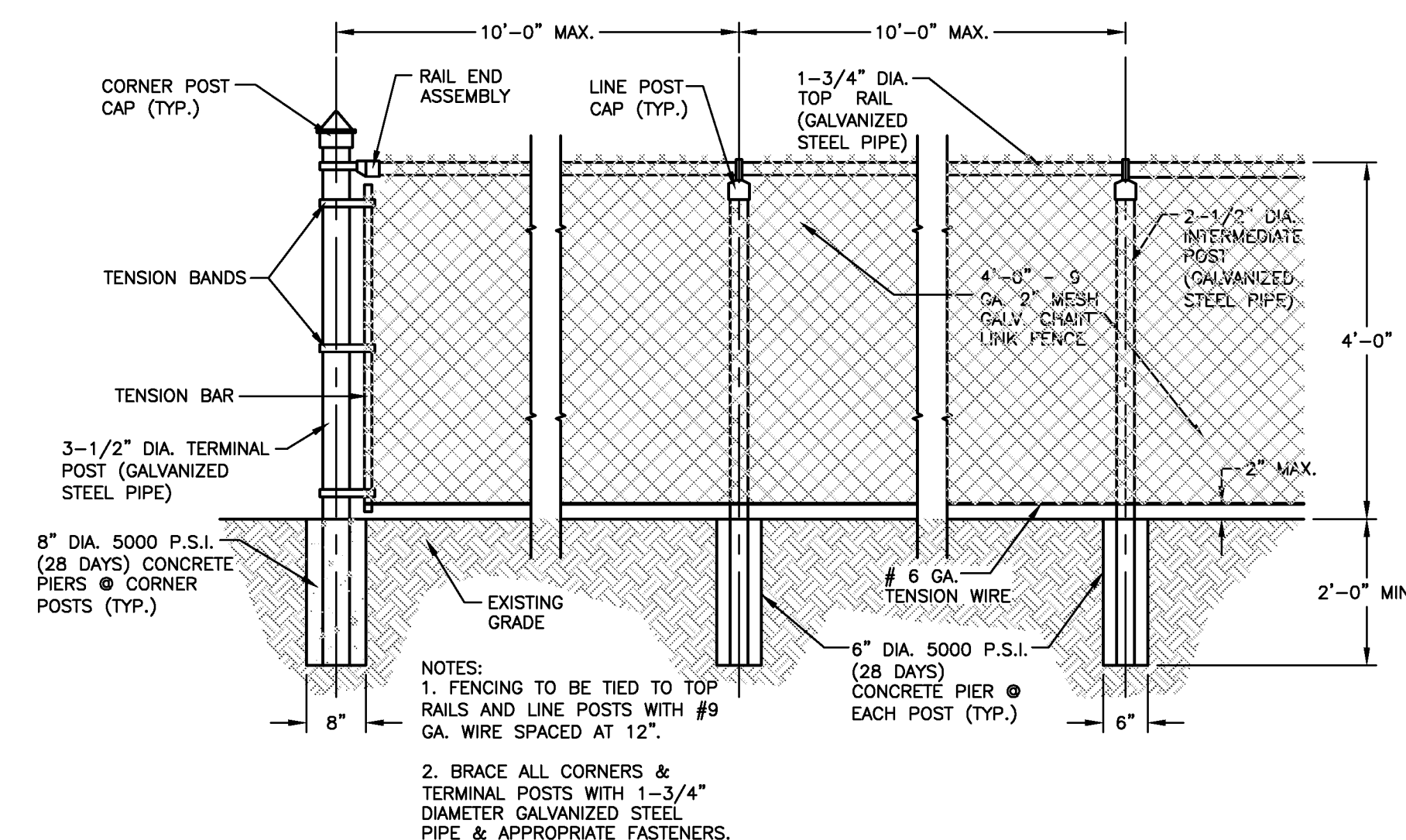
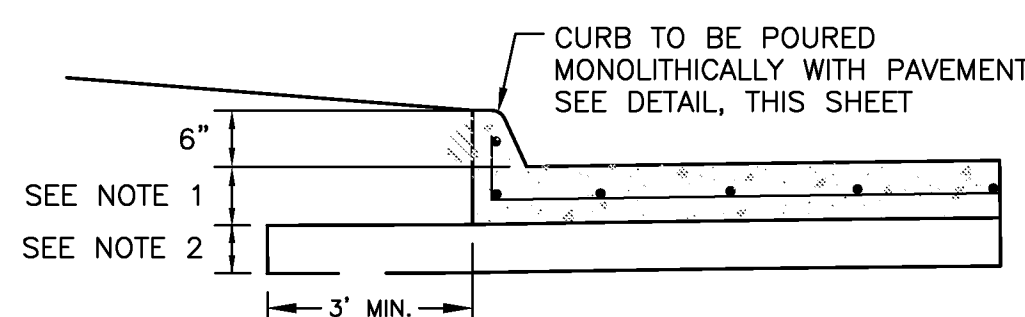
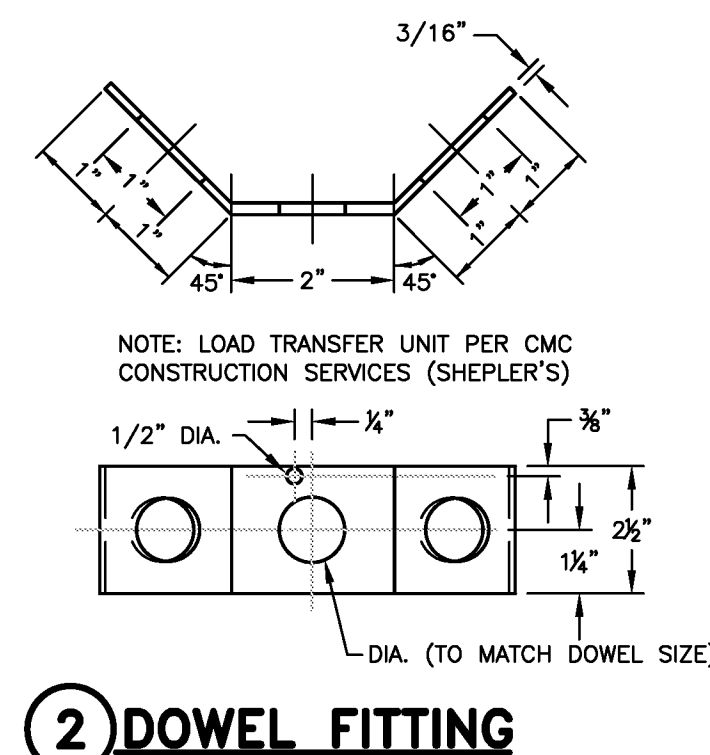
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FIRE STATION No. 7
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GEORGETOWN, TX 78626

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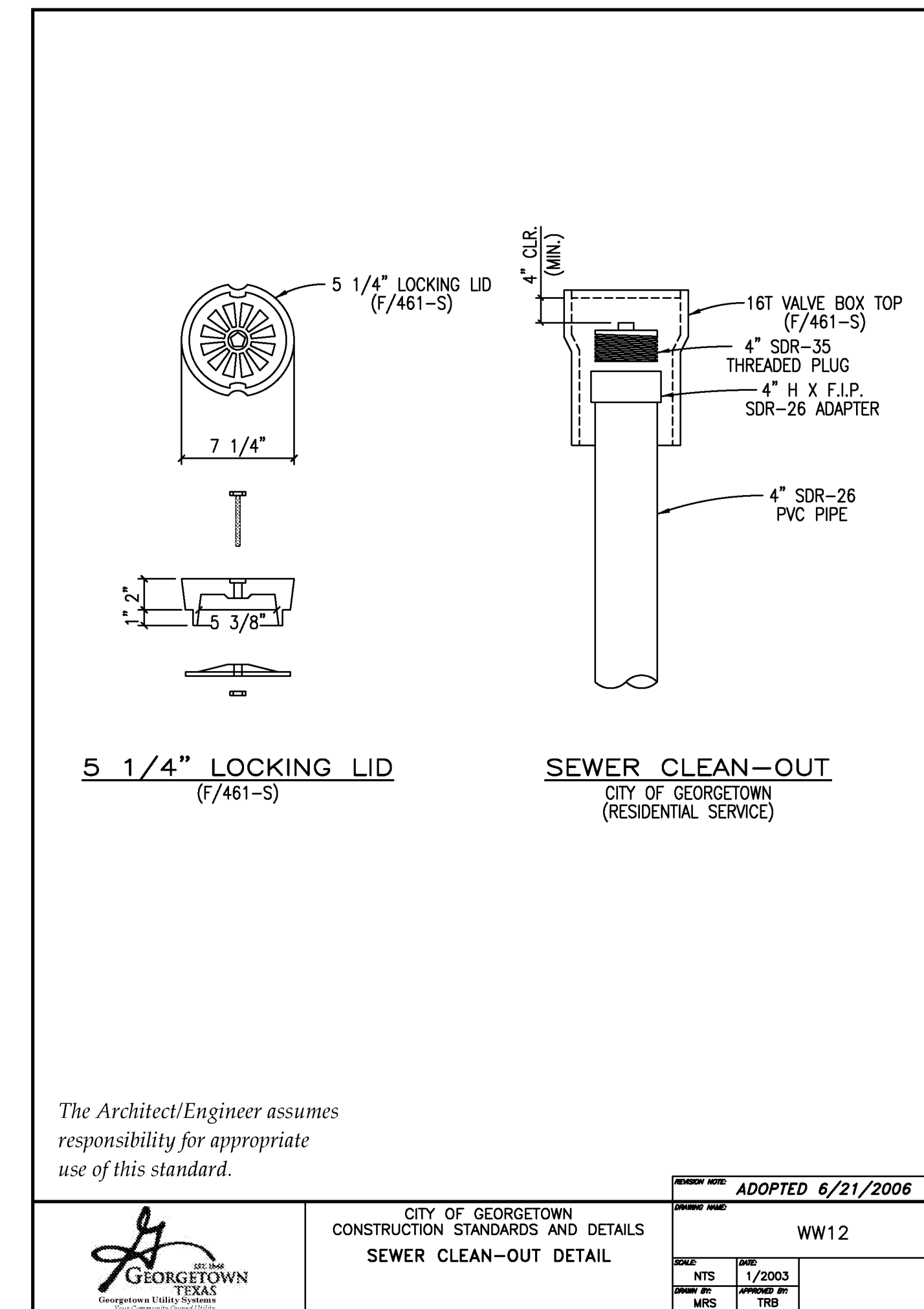
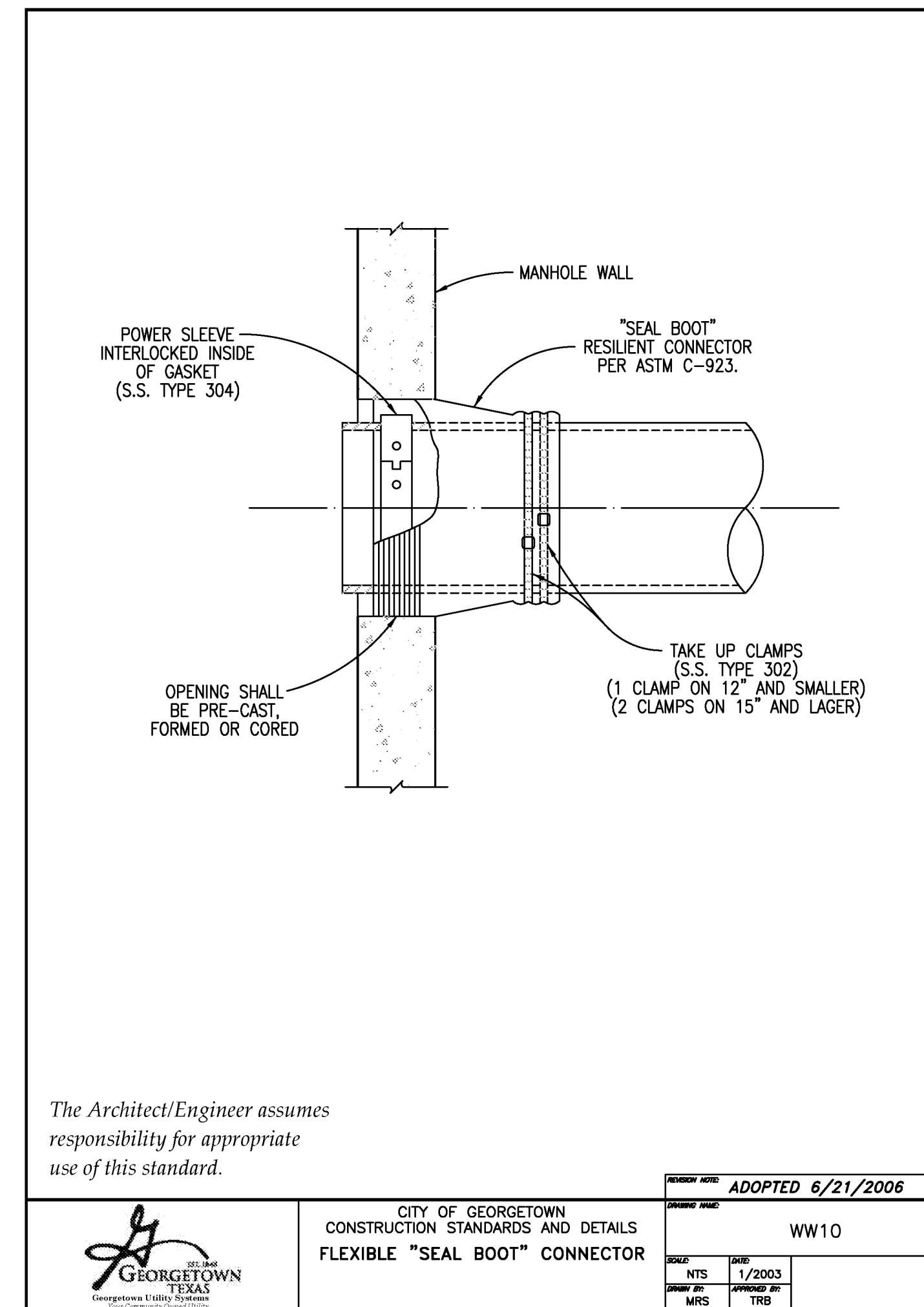
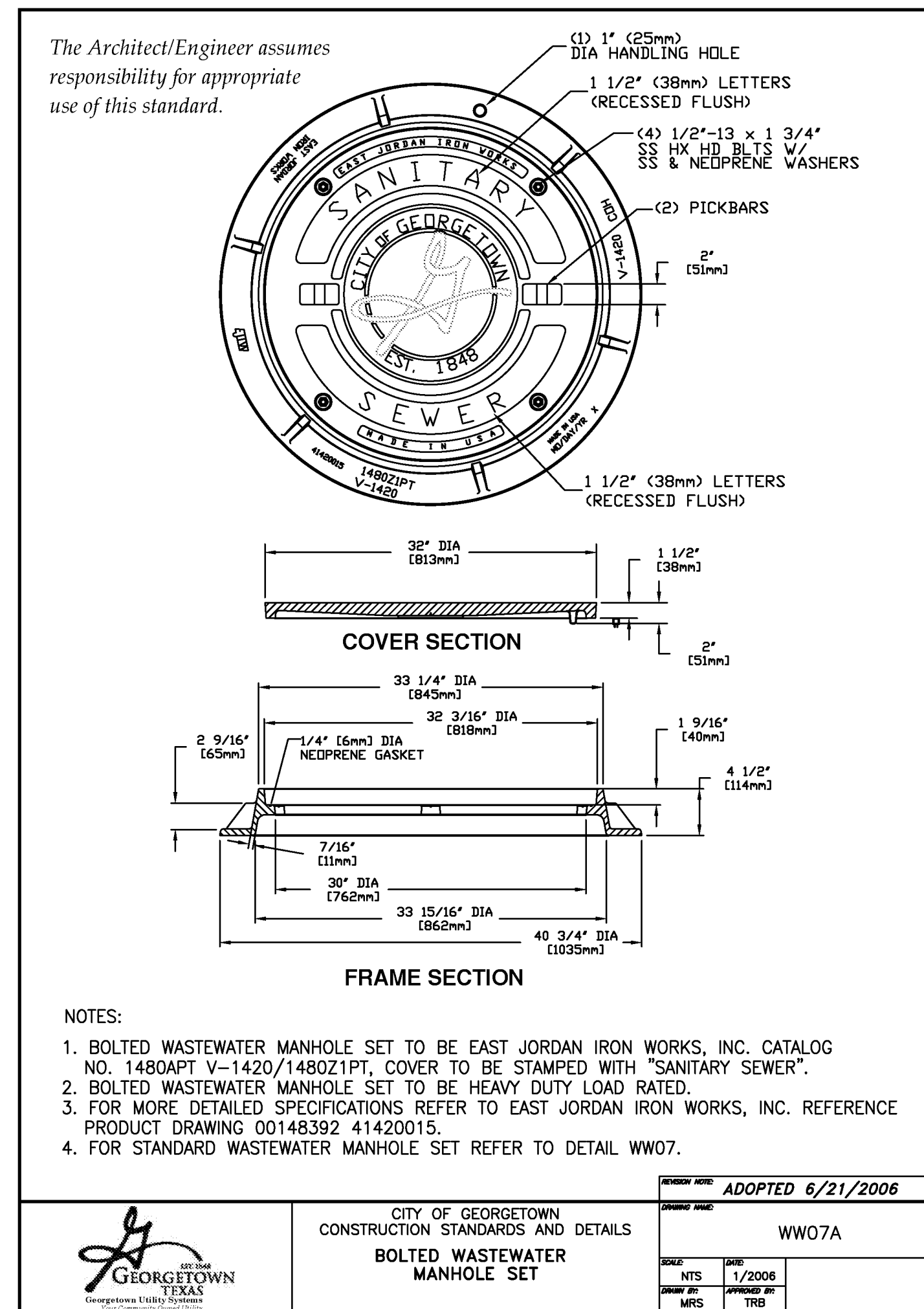
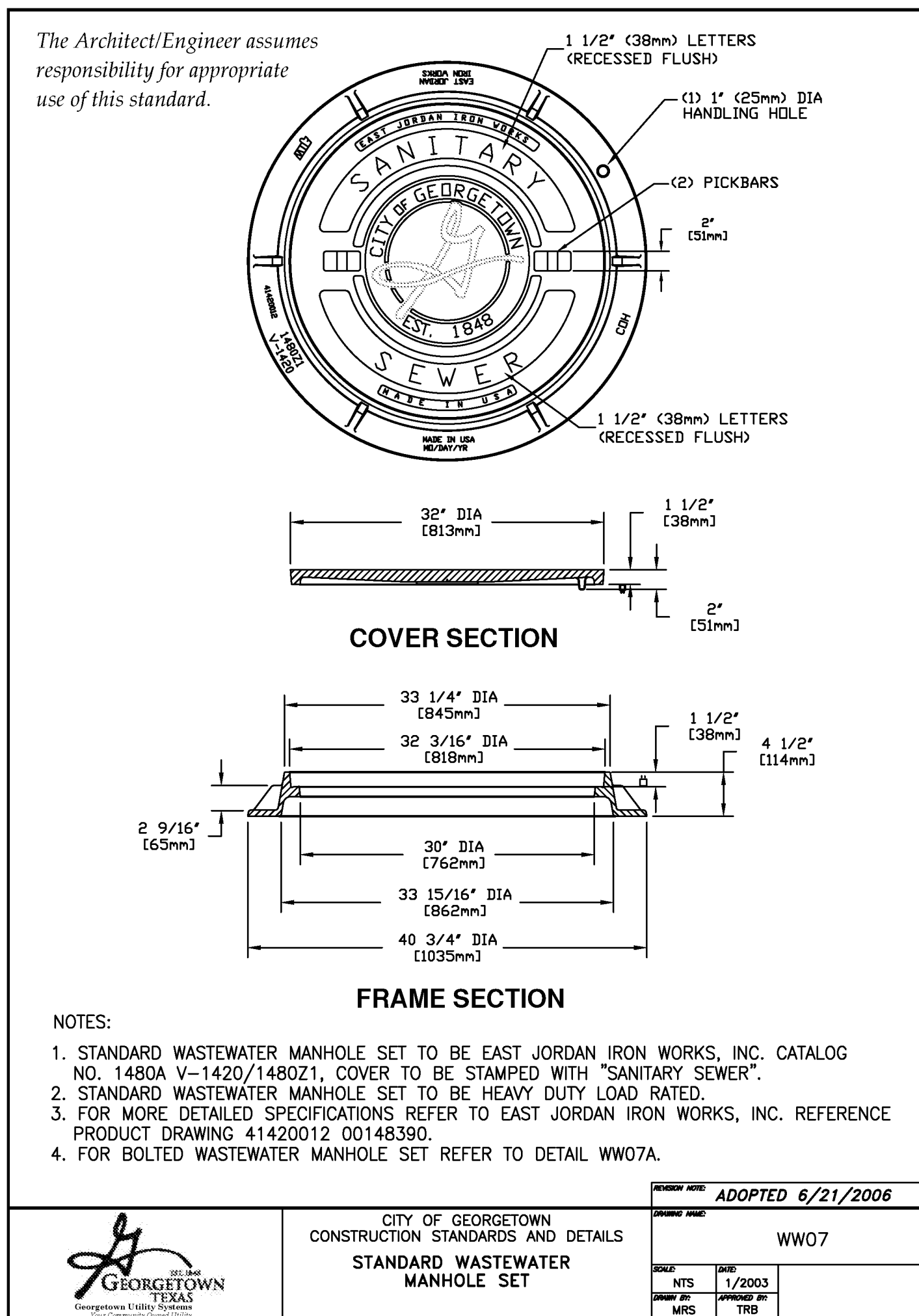
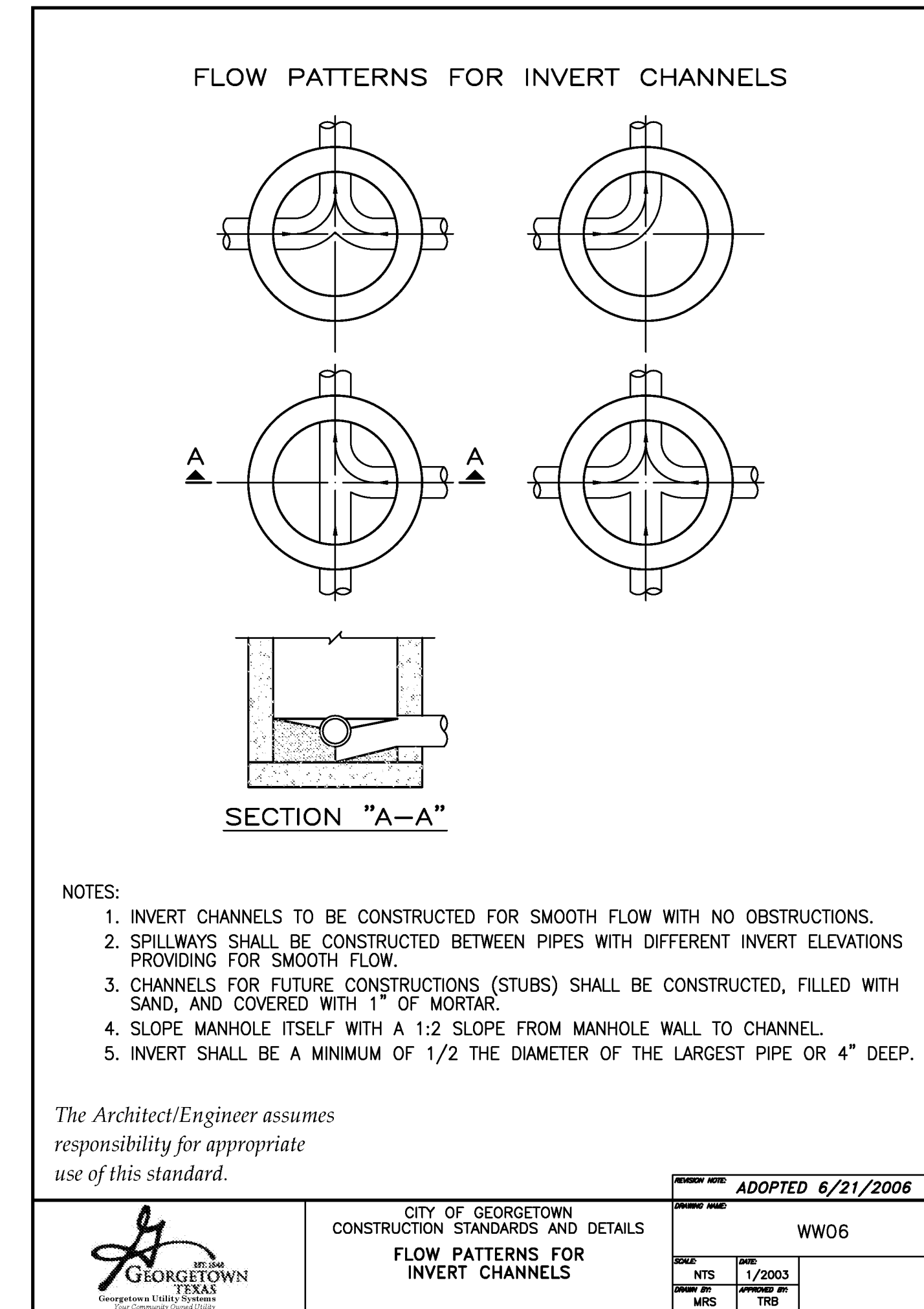
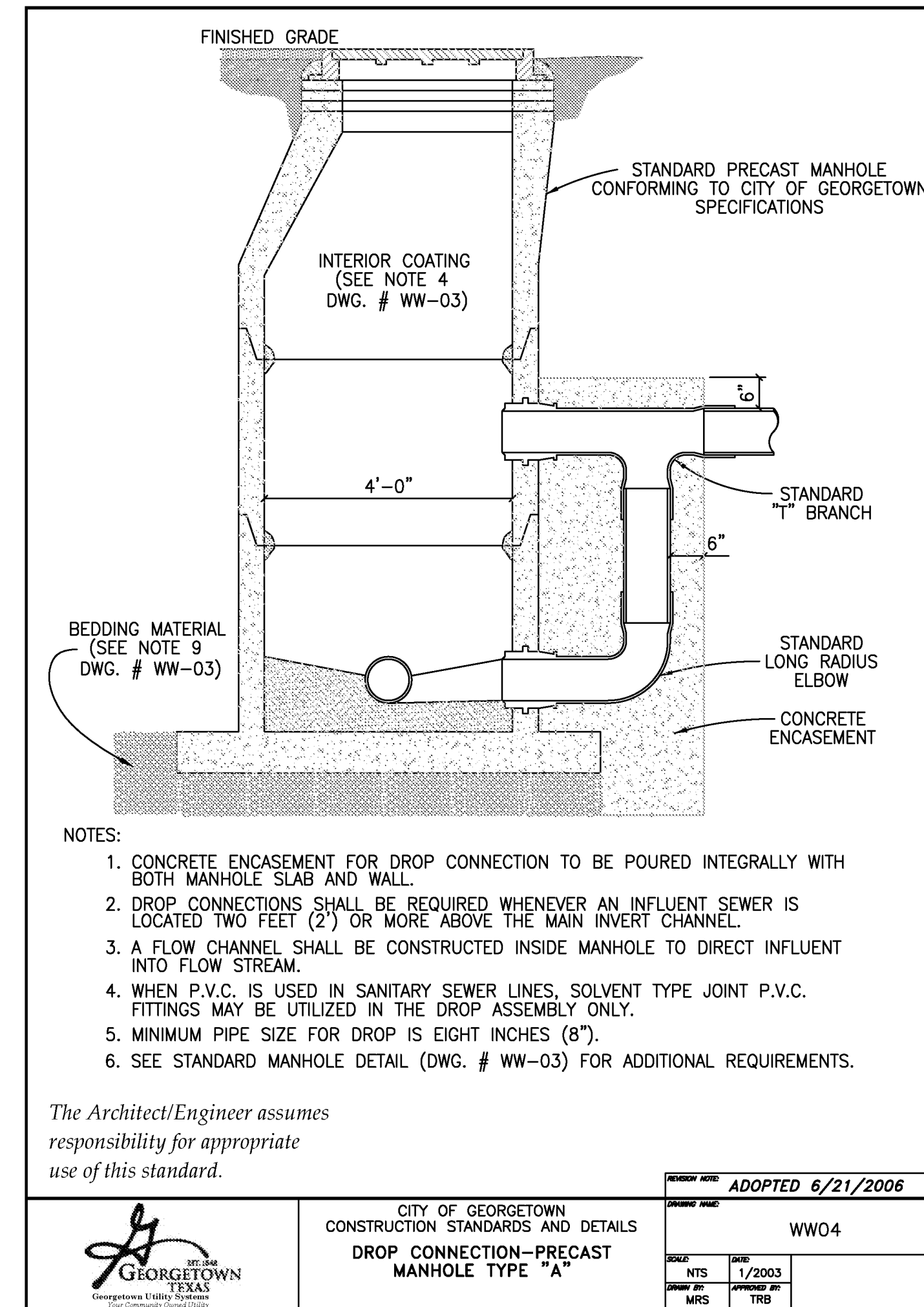
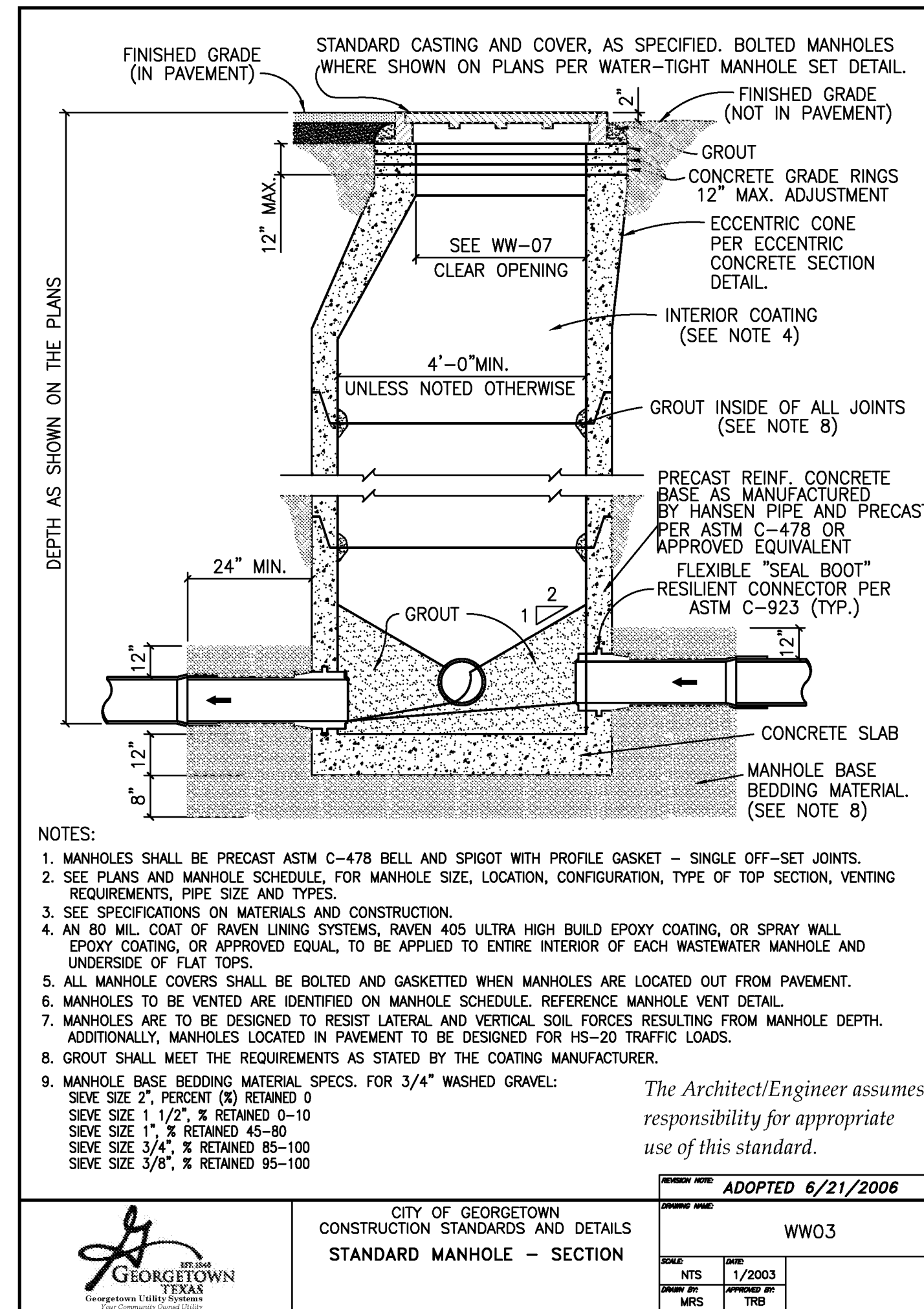
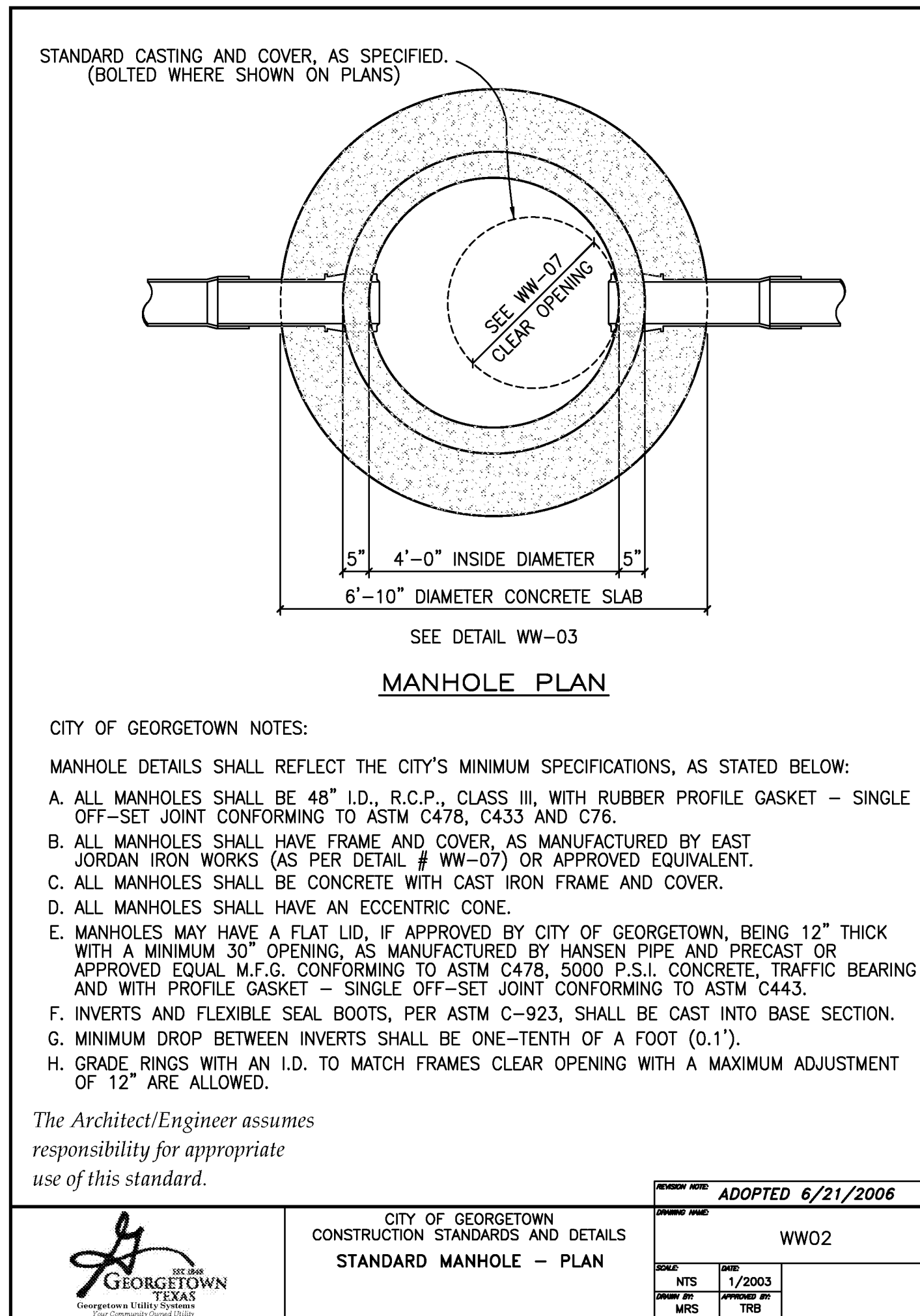
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DETAILS ARE NOT NECESSARILY INCLUDED
HEREIN. CONTRACTOR IS RESPONSIBLE FOR
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OF GEORGETOWN'S UNIFIED DEVELOPMENT
CODE AND APPLICABLE CITY STANDARD
DETAILS.



- NOTES:
- LIGHT DUTY PAVEMENT - 5" THICK CONCRETE (MINIMUM 28-DAY STRENGTH OF 3,500 P.S.I.) WITH NO. 3 BARS @ 18" O.C.E.W.
HEAVY DUTY PAVEMENT - 7" THICK CONCRETE (MINIMUM 28-DAY STRENGTH OF 3,500 P.S.I.) WITH NO. 3 BARS @ 18" O.C.E.W.
 - MOISTURE CONDITIONED SUBGRADE.
P<25
SOIL SUBGRADE SHOULD BE SCARIFIED TO A DEPTH OF 6", MOISTURE CONDITIONED AND RECOMPACTED TO A MINIMUM 95% PER ASTM D 698 WITHIN +/- 3%.
P>25
SOIL SUBGRADE SHOULD BE SCARIFIED TO A DEPTH OF 6", MOISTURE CONDITIONED AND RECOMPACTED TO A MINIMUM 95% PER ASTM D 698 WITHIN OPTIMUM +4%.



NO.	REVISION	DATE



NOTE:
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HOUSTON, TEXAS 77045
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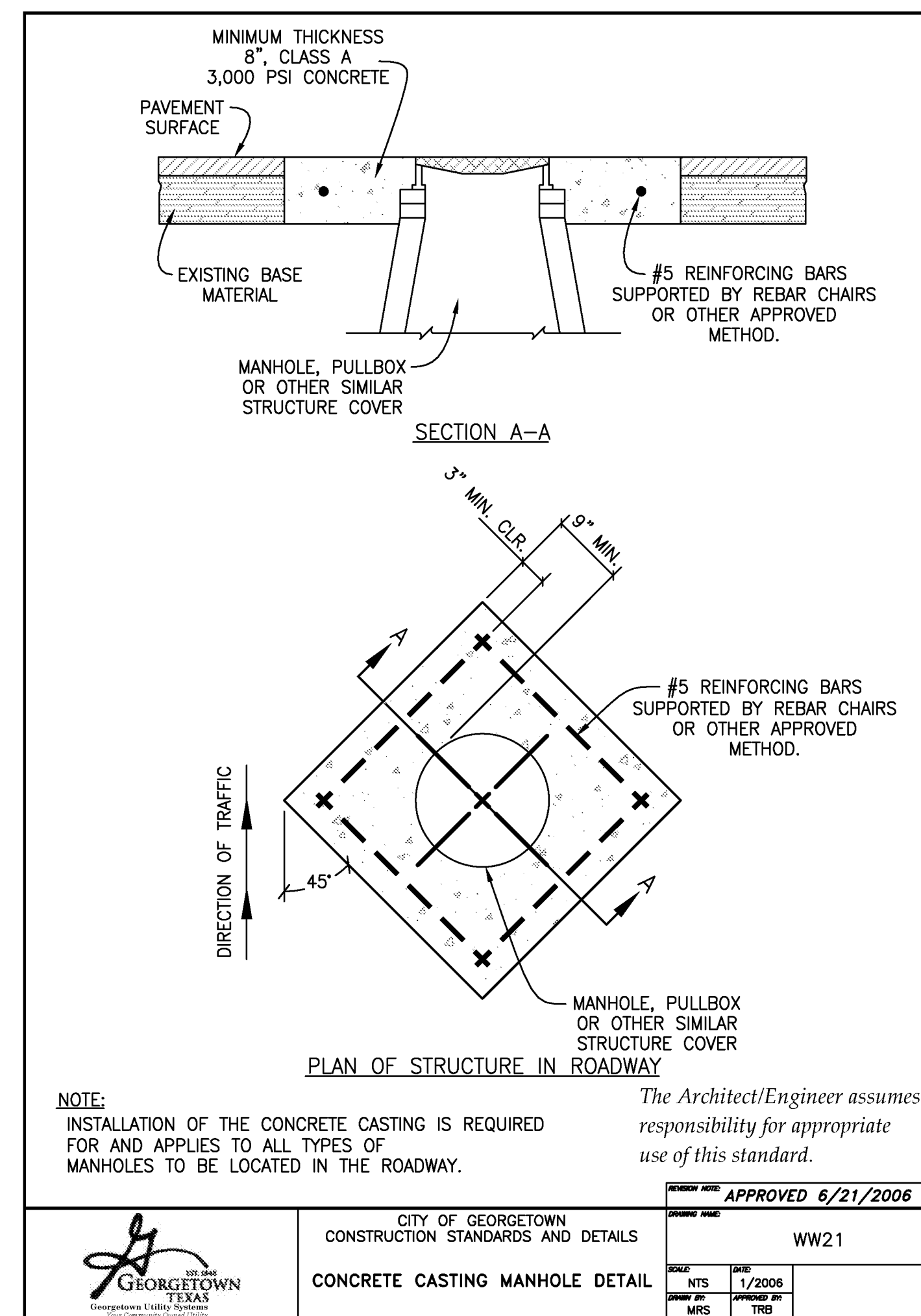
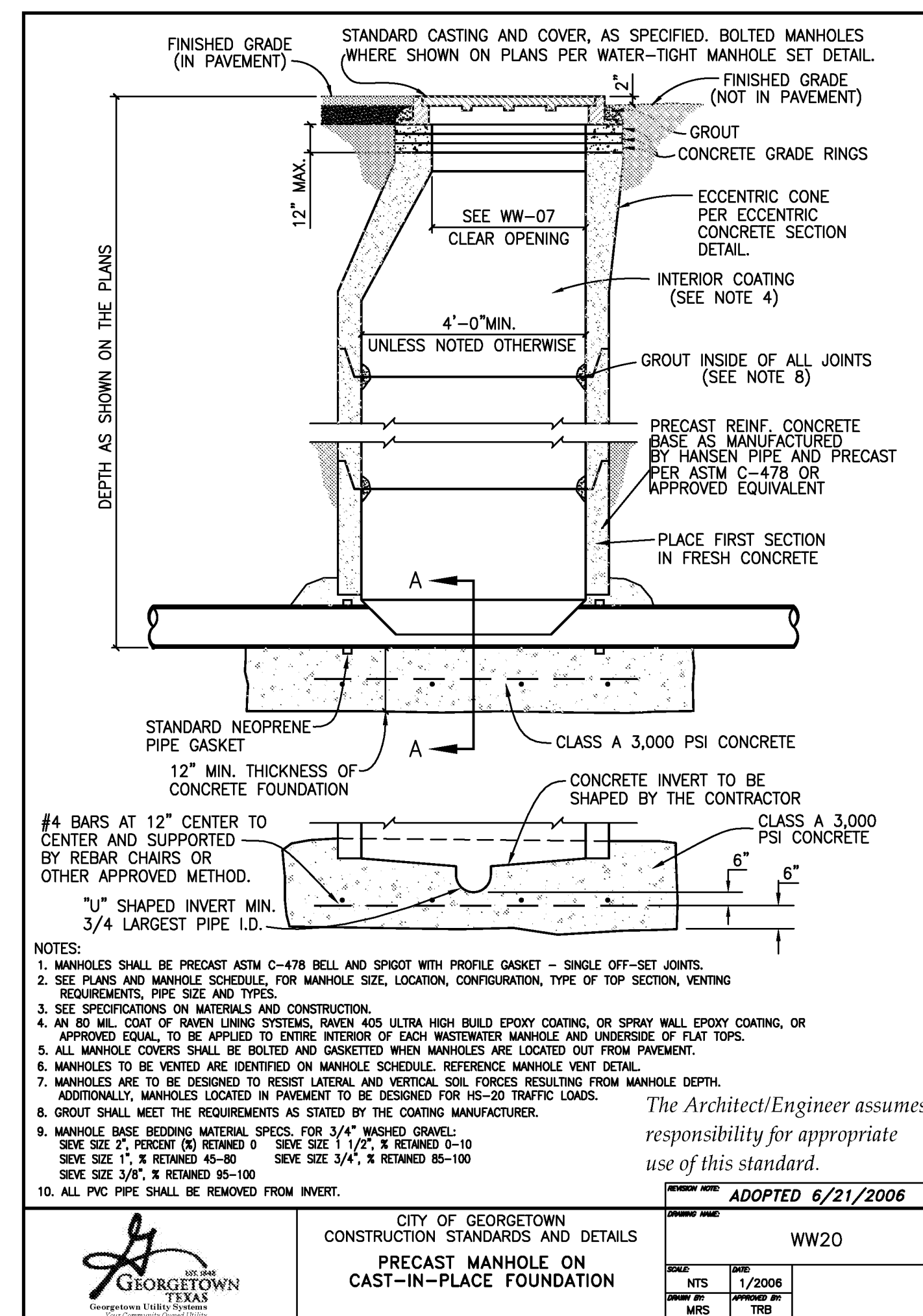
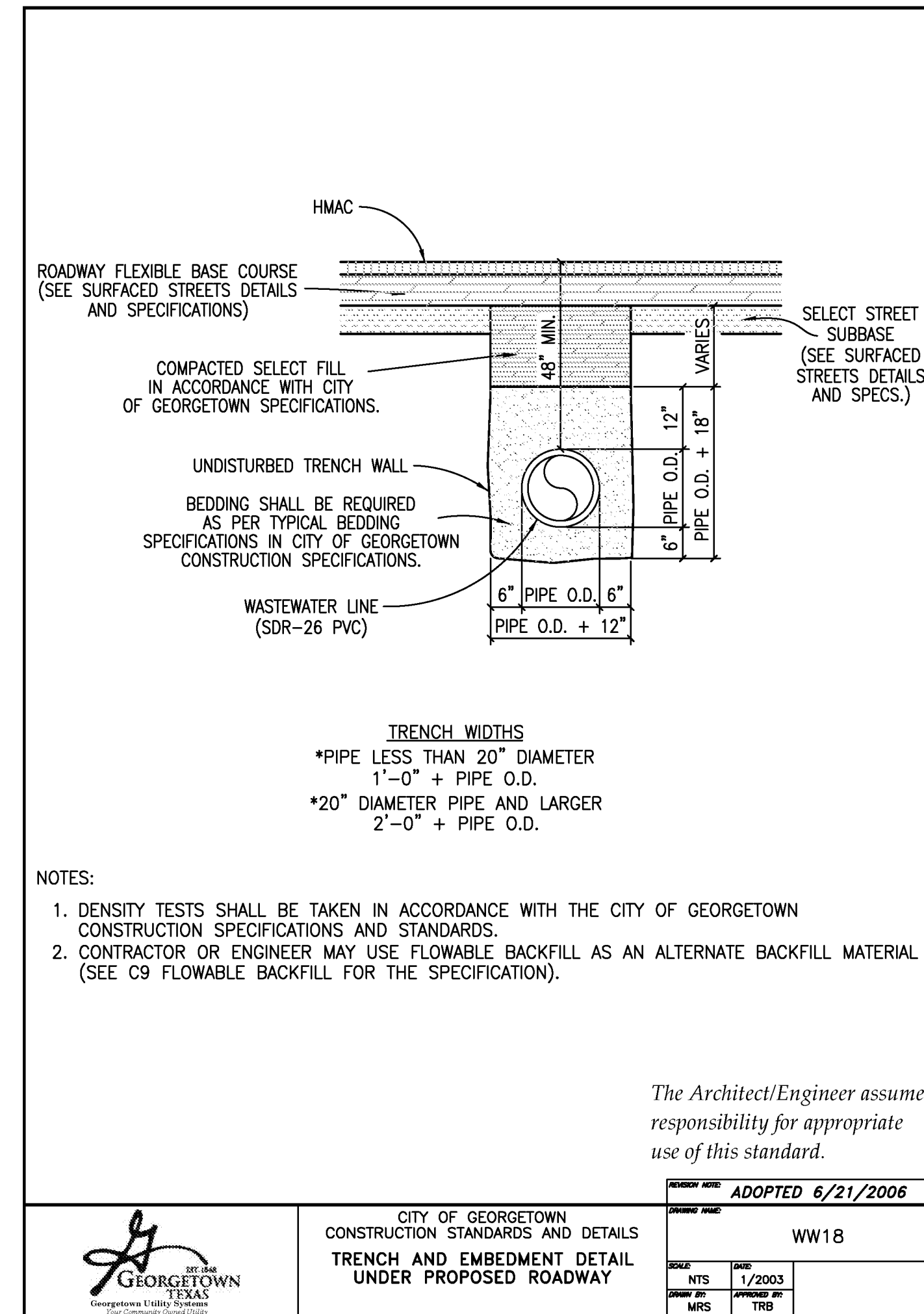
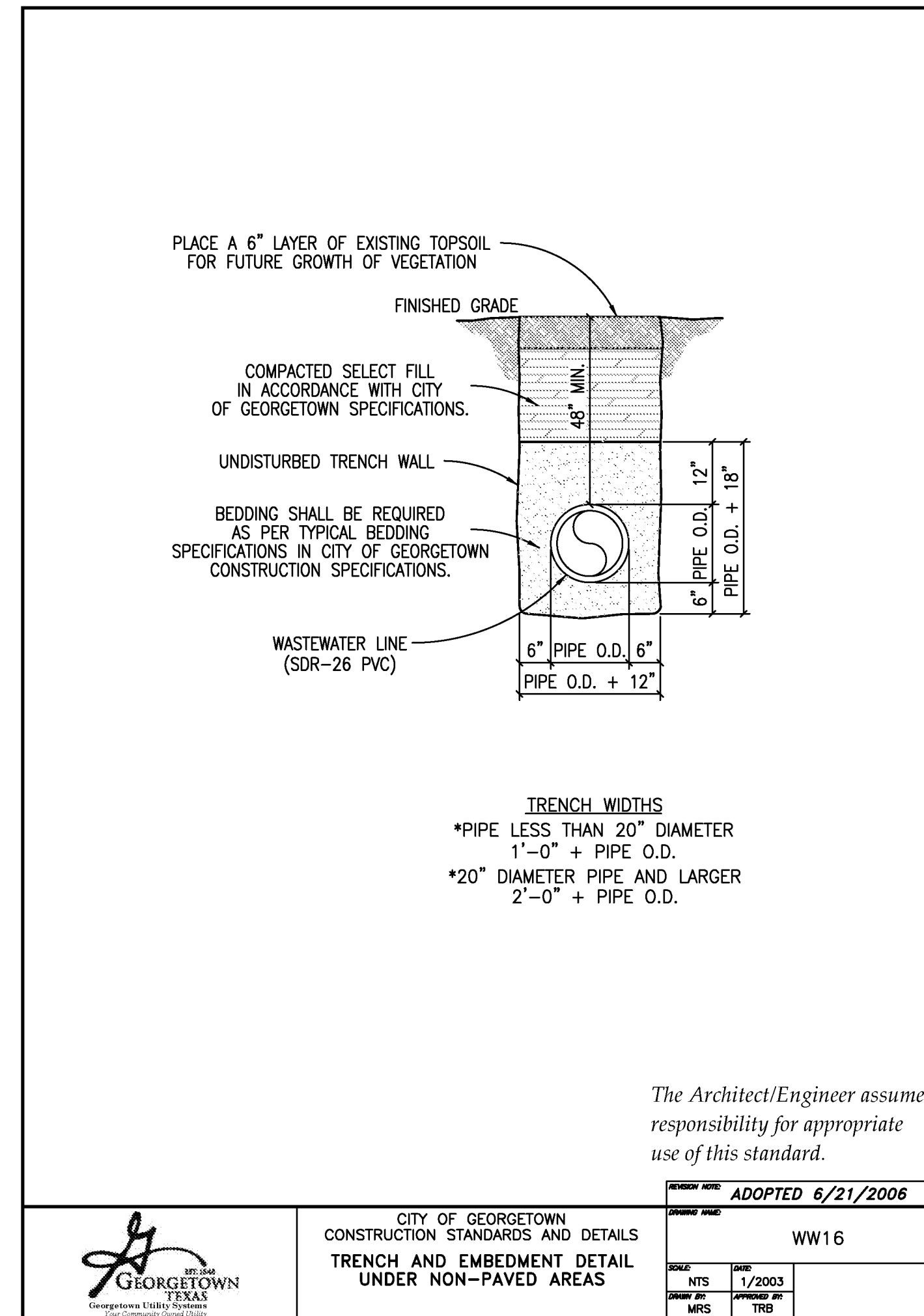
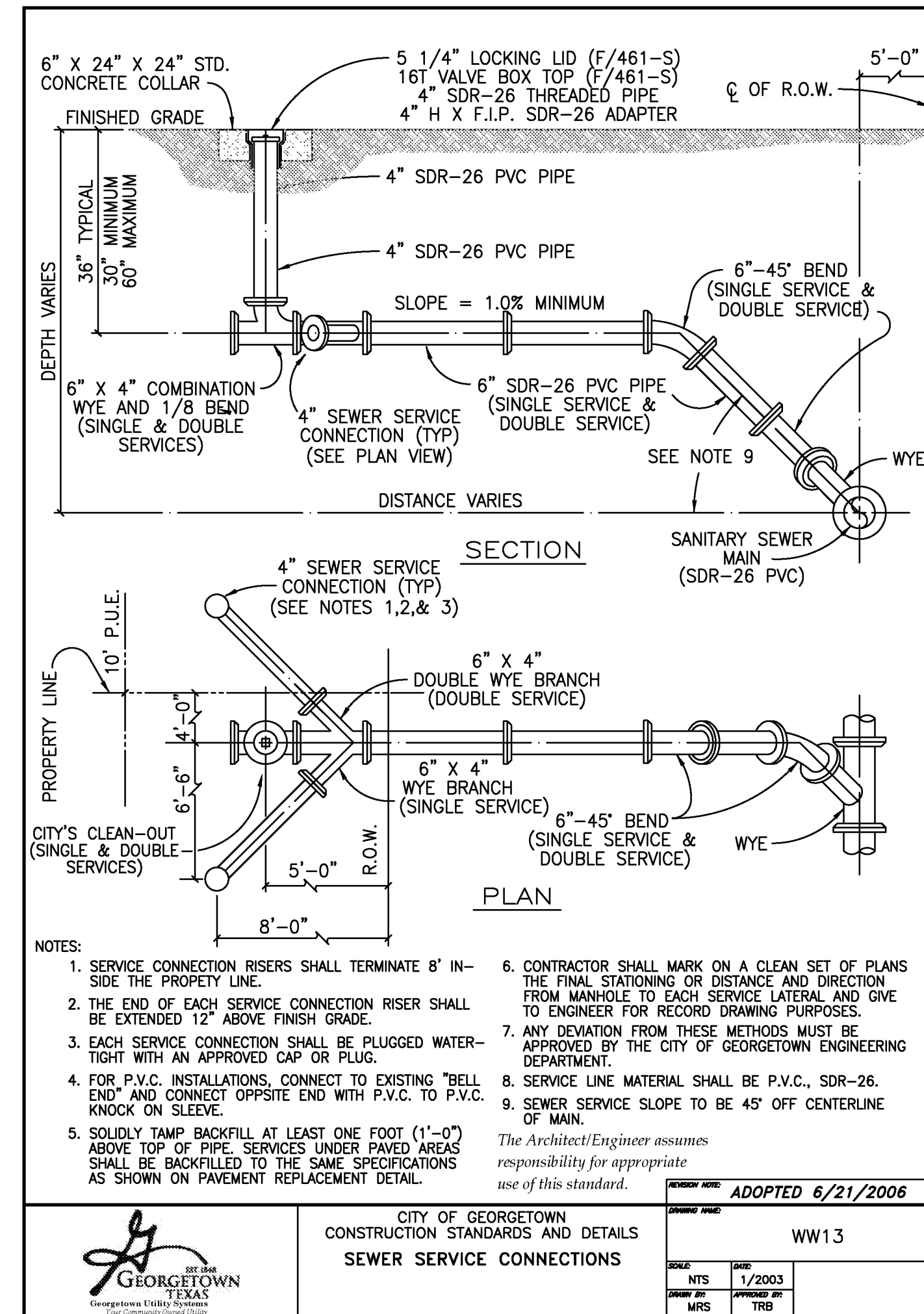
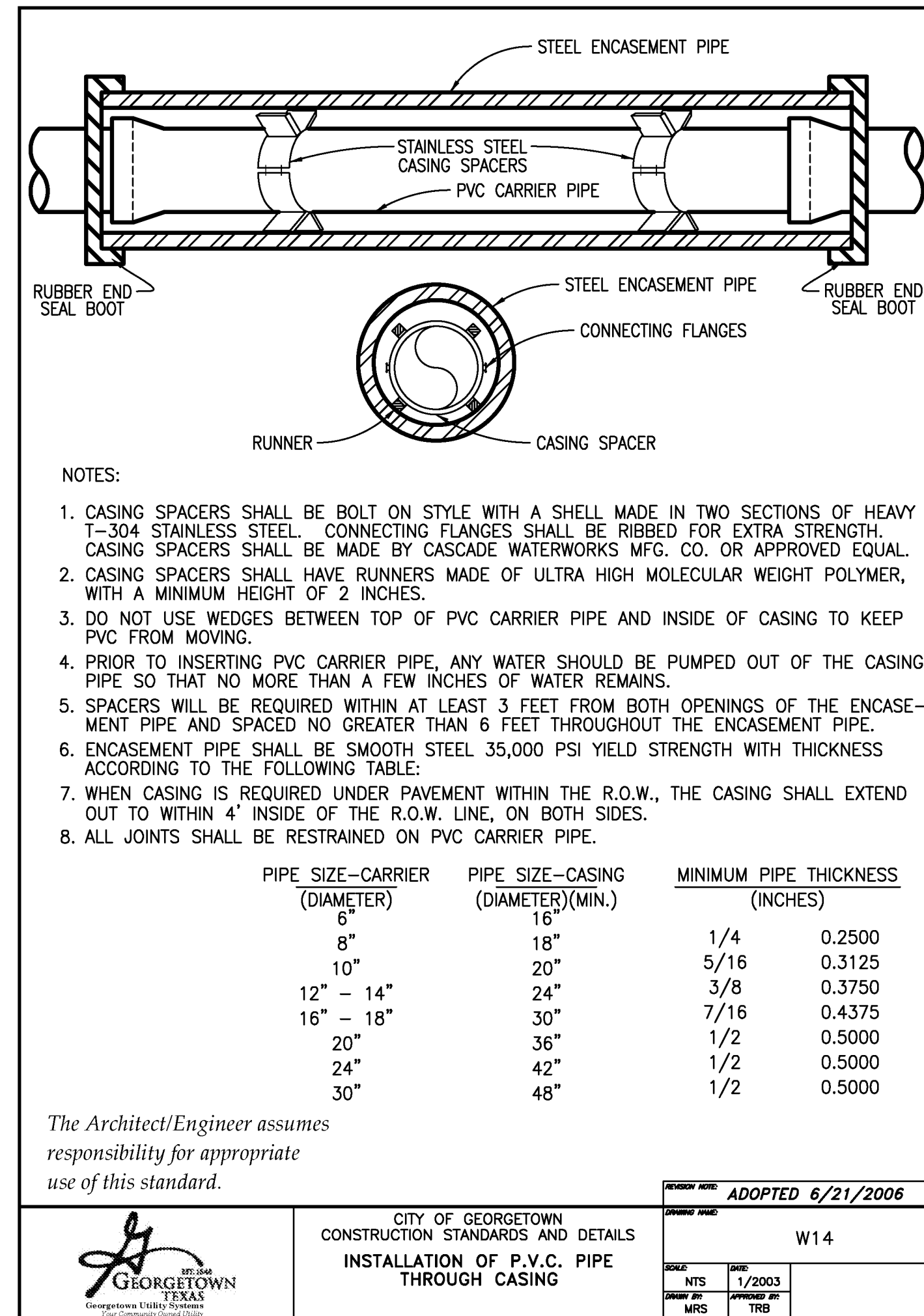
ROBERT C. SCHMIDT
REGISTERED PROFESSIONAL ARCHITECT
50465
11/16/18

STRAND ASSOCIATES
OSA JOB No. 3935.045

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**CITY OF GEORGETOWN
FIRE STATION No. 7**
2703 EAST STATE HIGHWAY 29
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NO.	REVISION	DATE



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Robert C. Schmitt
 11/16/18

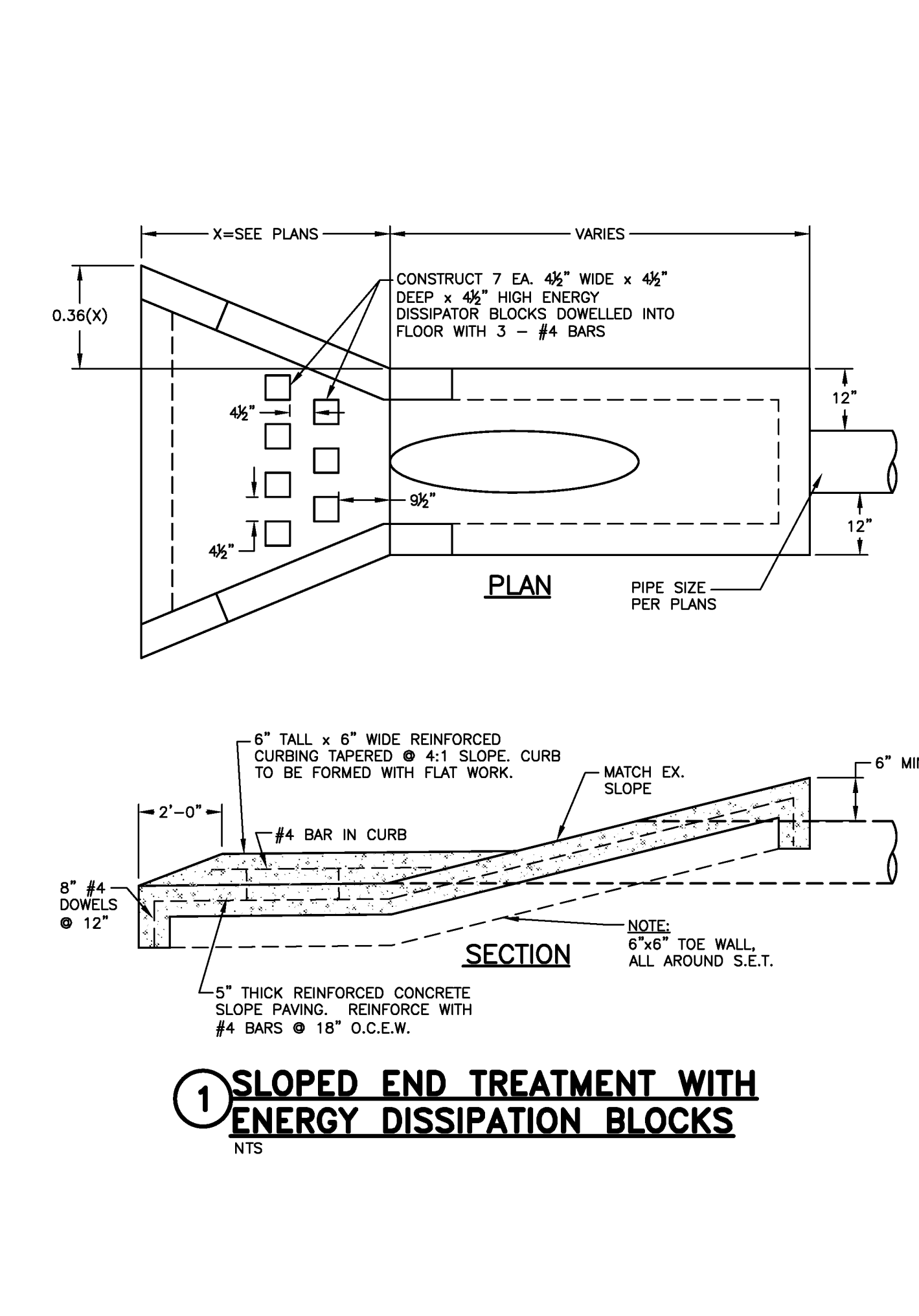
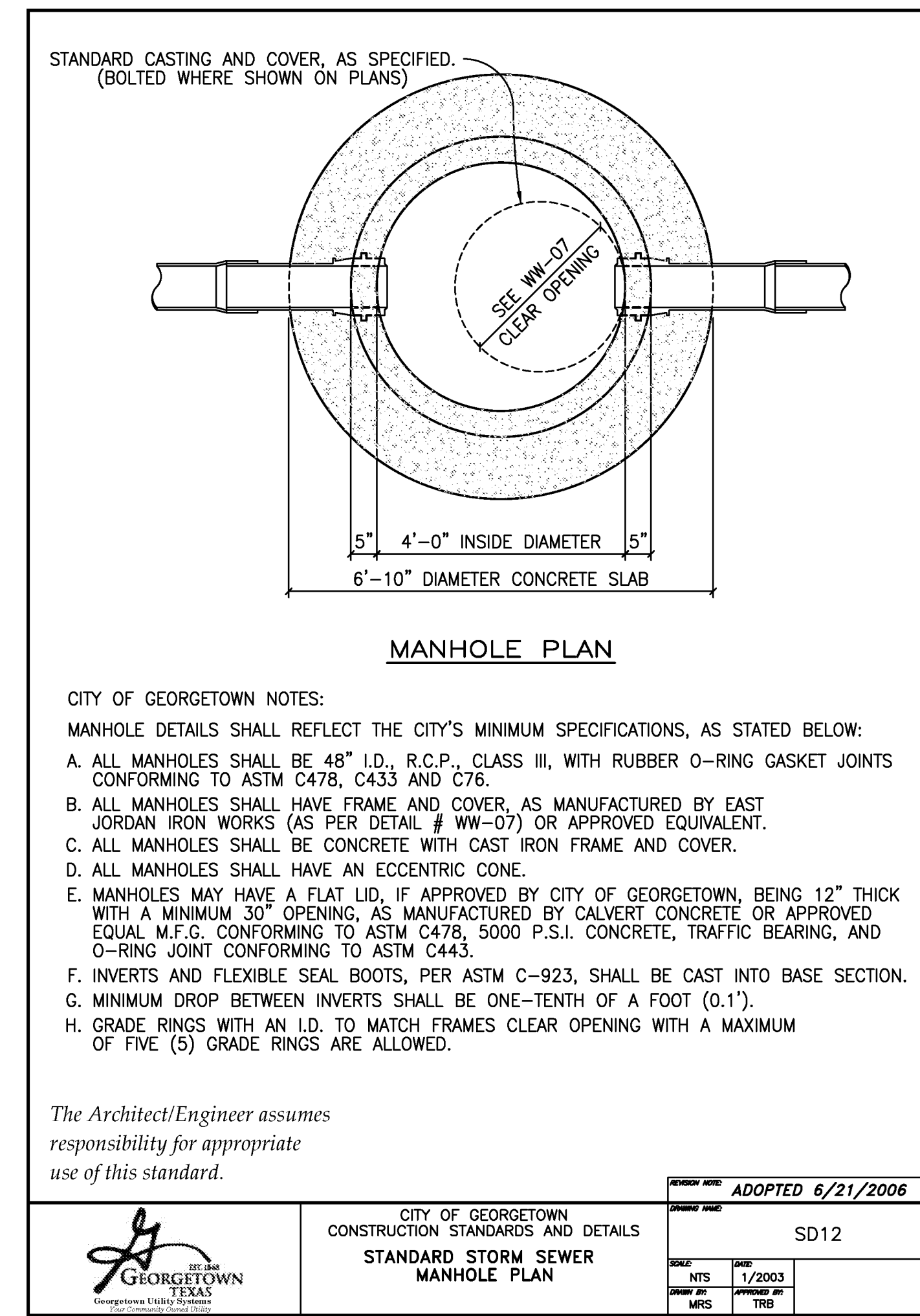
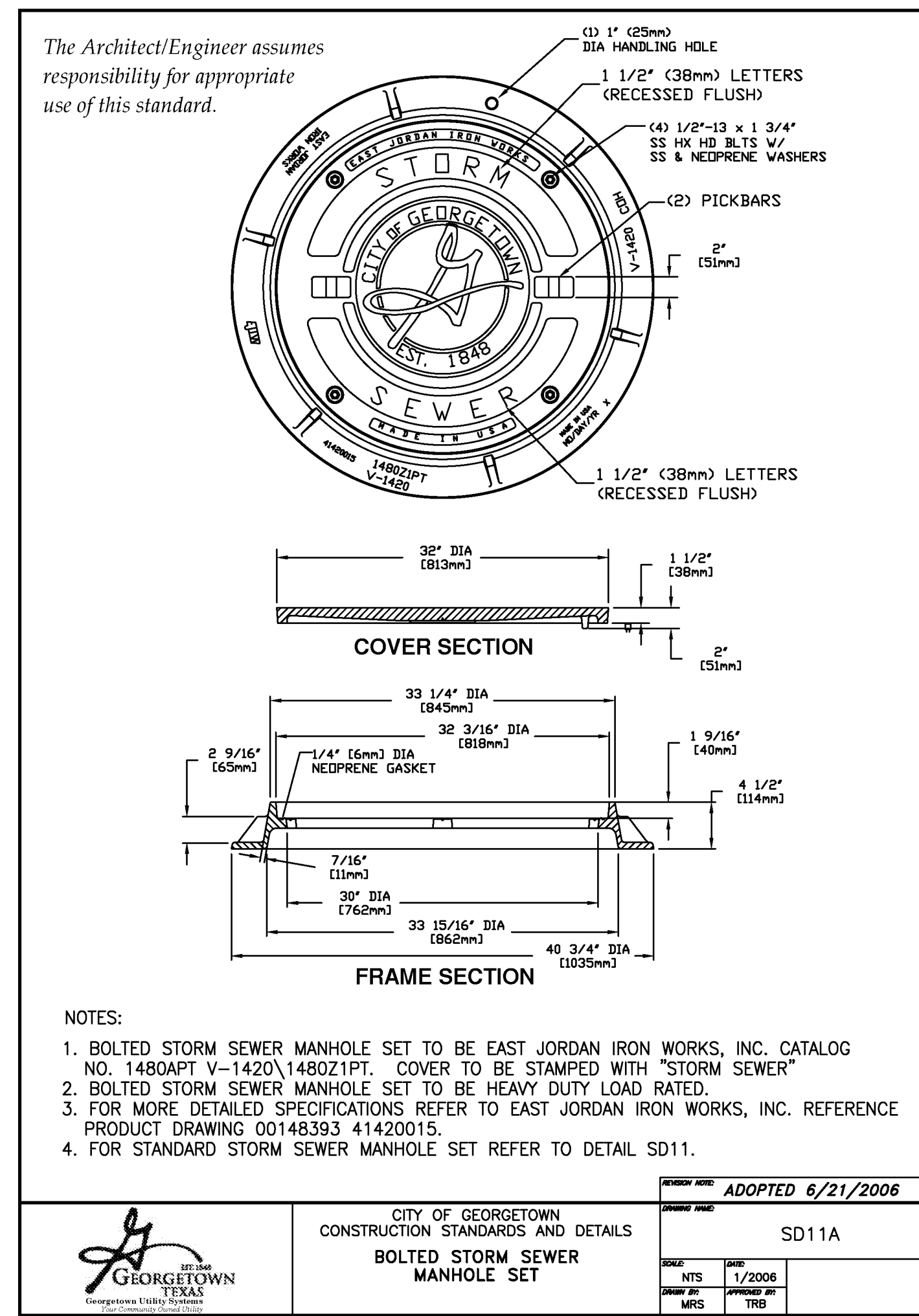
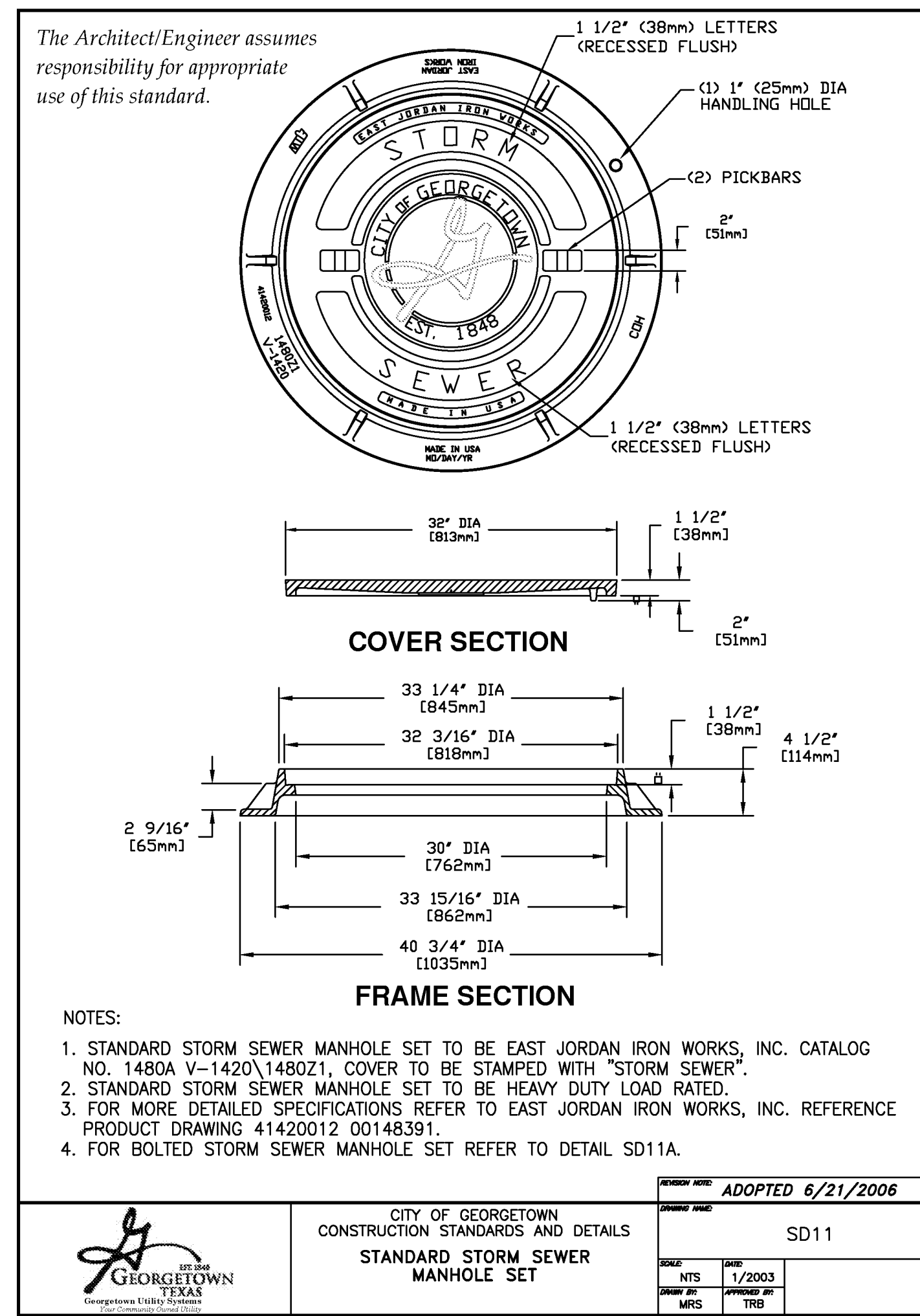
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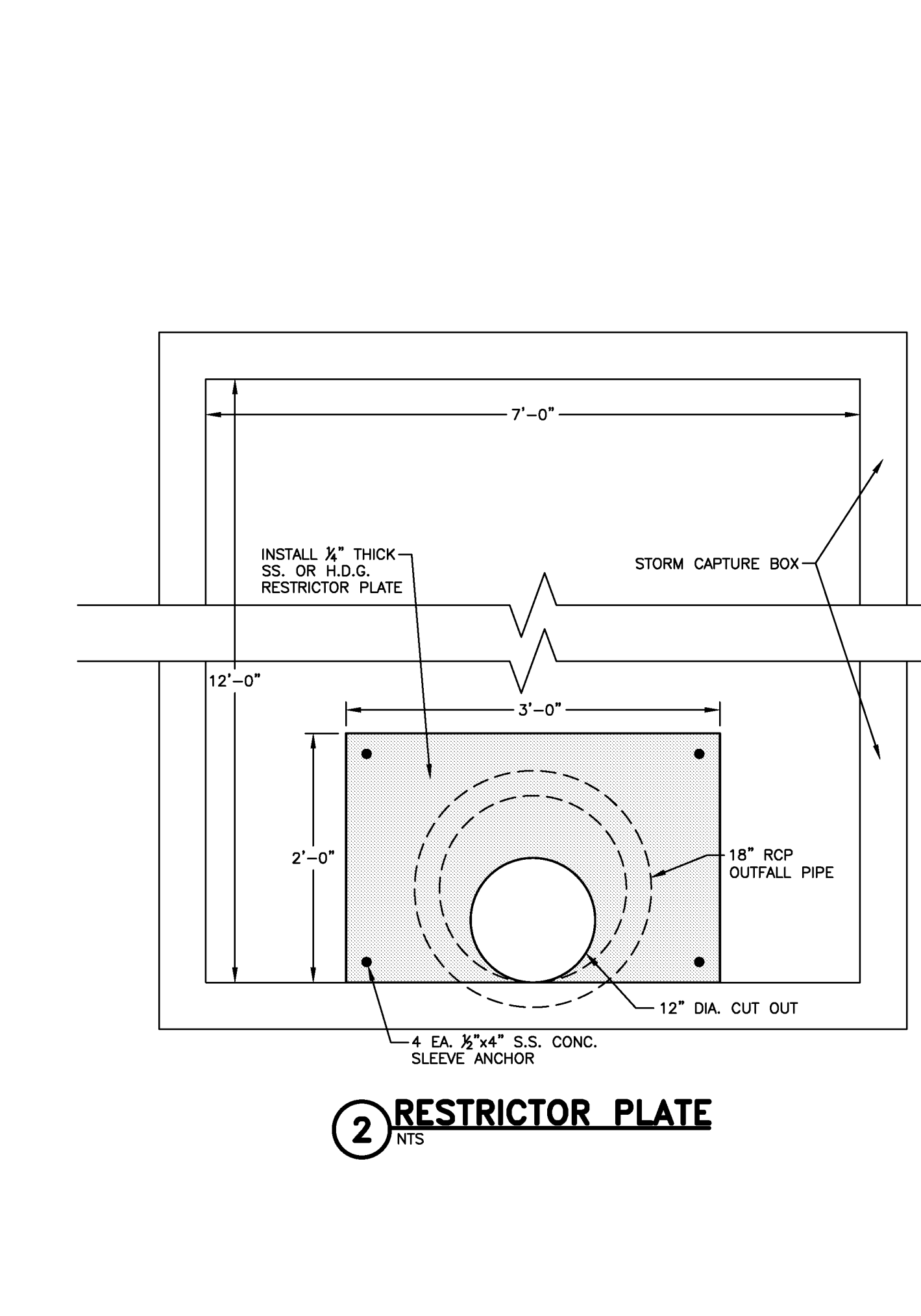
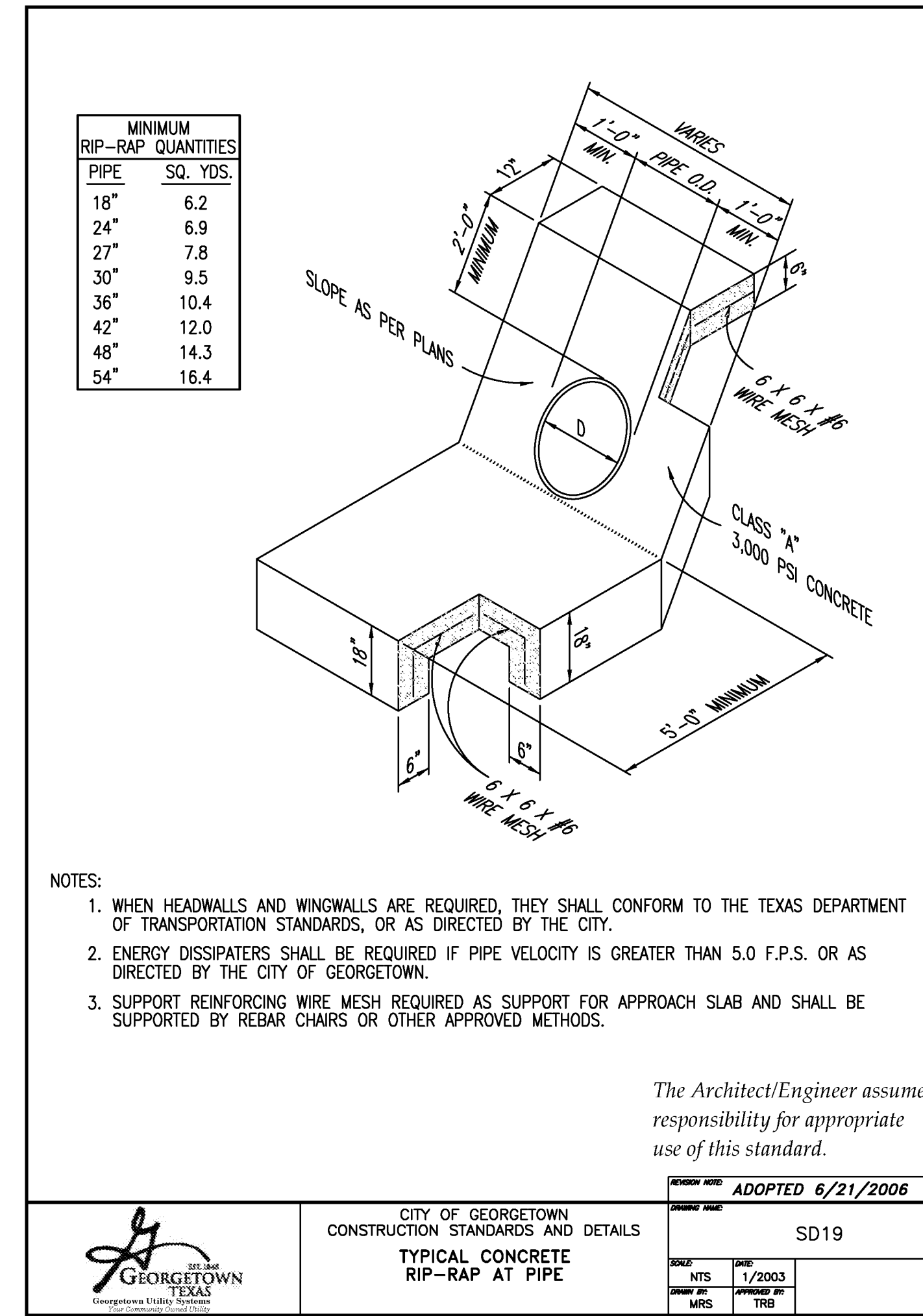
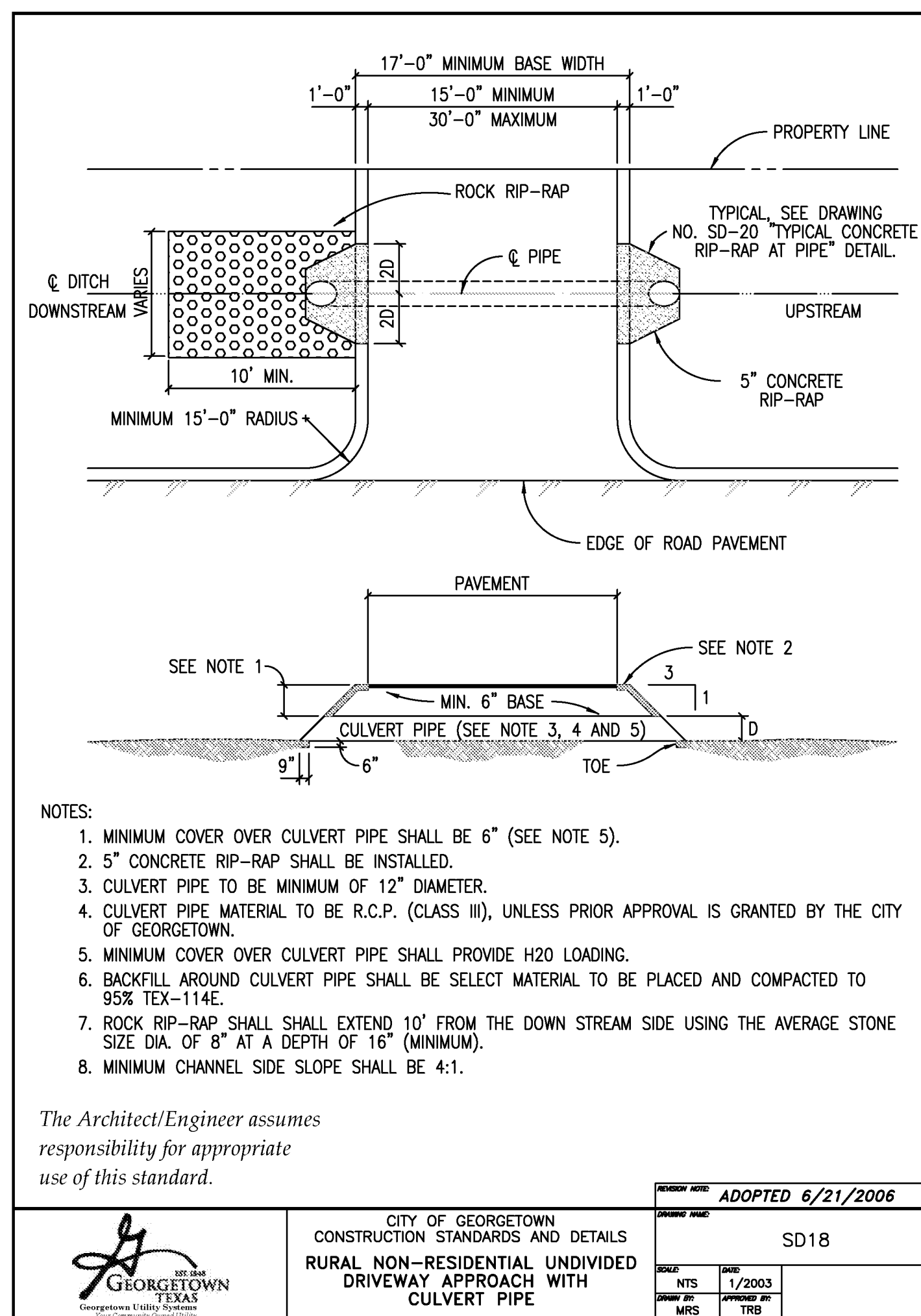
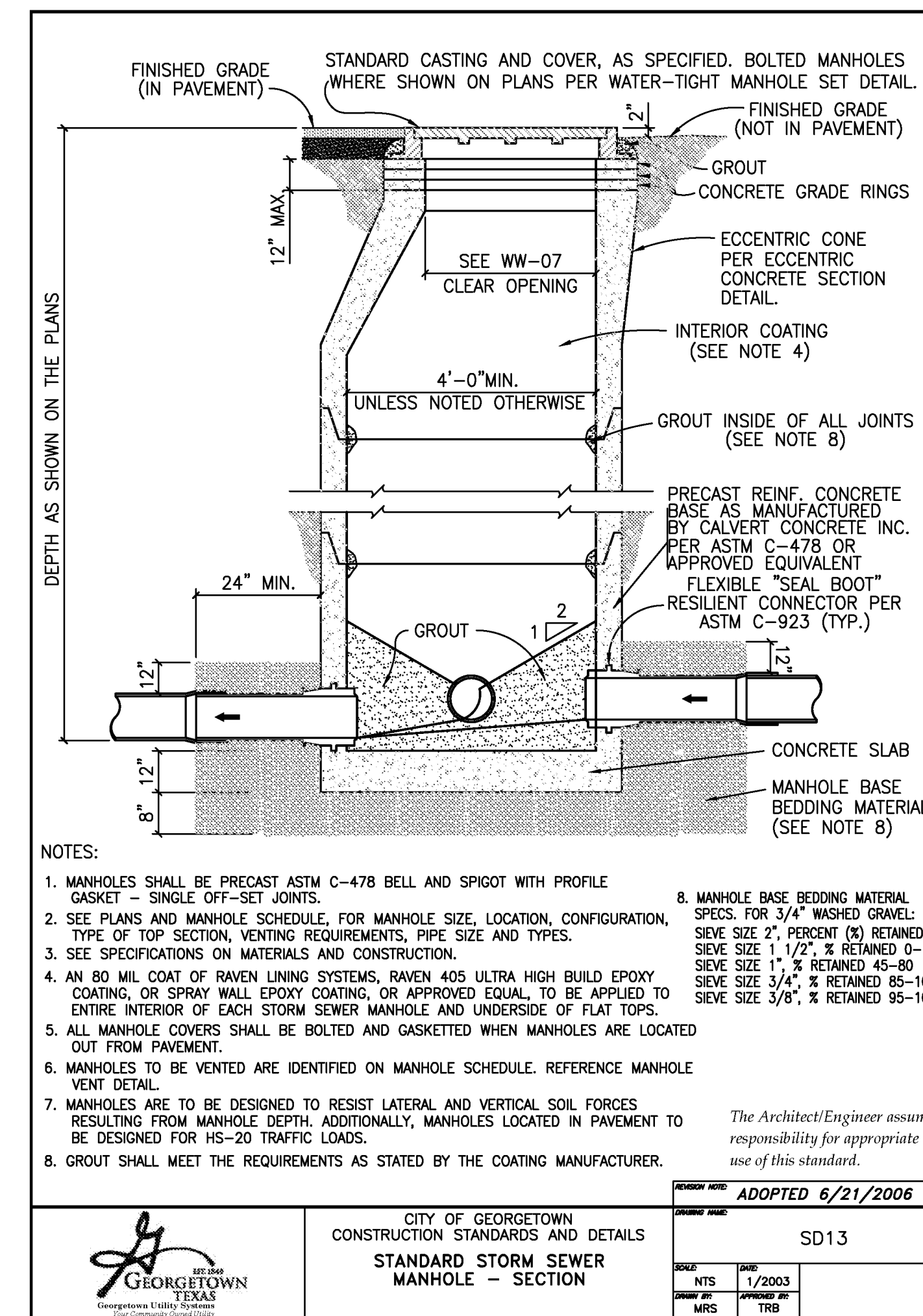
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NO.	REVISION	DATE

C7.1
 WASTEWATER DETAILS II

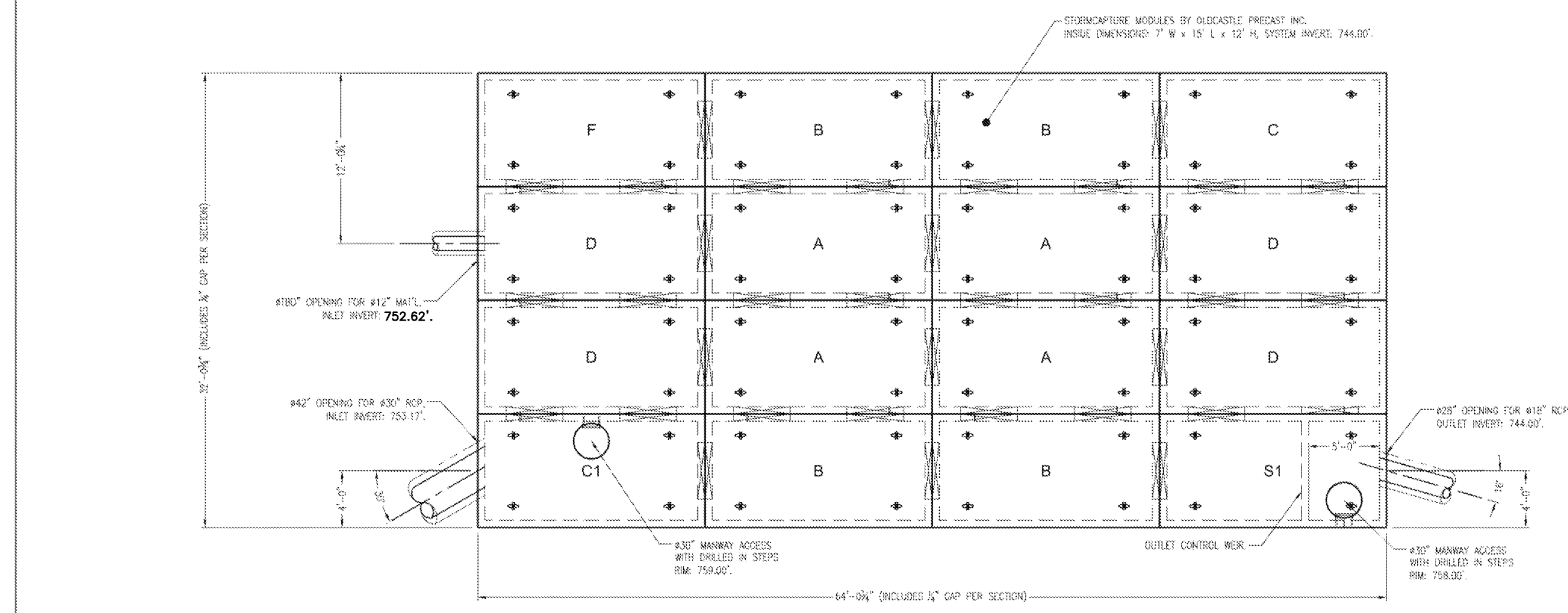


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NO.	REVISION	DATE

REVISION	DATE	REV BY	DESCRIPTION OF REVISION
1	5/17/2018	CS	ISSUE FOR PERMITS
2	5/17/2018	CS	REVISIONS TO PERMITS AND ELECTRICAL TRENCHES TO BE ON PARALLEL TO TOP IRAM
3	5/17/2018	CS	REVISIONS TO PERMITS AND ELECTRICAL TRENCHES TO BE ON PARALLEL TO TOP IRAM



DEPTH (ft)	VOLUME (cu ft)	VOLUME (gal)
0	0	0
1	144	1080
2	288	2160
3	432	3240
4	576	4320
5	720	5400
6	864	6480
7	1008	7560
8	1152	8640
9	1296	9720
10	1440	10800
11	1584	11880
12	1728	12960
13	1872	14040
14	2016	15120
15	2160	16200
16	2304	17280
17	2448	18360
18	2592	19440
19	2736	20520
20	2880	21600
21	3024	22680
22	3168	23760
23	3312	24840
24	3456	25920
25	3600	27000
26	3744	28080
27	3888	29160
28	4032	30240
29	4176	31320
30	4320	32400
31	4464	33480
32	4608	34560
33	4752	35640
34	4896	36720
35	5040	37800
36	5184	38880
37	5328	39960
38	5472	41040
39	5616	42120
40	5760	43200
41	5904	44280
42	6048	45360
43	6192	46440
44	6336	47520
45	6480	48600
46	6624	49680
47	6768	50760
48	6912	51840
49	7056	52920
50	7200	54000
51	7344	55080
52	7488	56160
53	7632	57240
54	7776	58320
55	7920	59400
56	8064	60480
57	8208	61560
58	8352	62640
59	8496	63720
60	8640	64800
61	8784	65880
62	8928	66960
63	9072	68040
64	9216	69120
65	9360	70200
66	9504	71280
67	9648	72360
68	9792	73440
69	9936	74520
70	10080	75600
71	10224	76680
72	10368	77760
73	10512	78840
74	10656	79920
75	10800	81000
76	10944	82080
77	11088	83160
78	11232	84240
79	11376	85320
80	11520	86400
81	11664	87480
82	11808	88560
83	11952	89640
84	12096	90720
85	12240	91800
86	12384	92880
87	12528	93960
88	12672	95040
89	12816	96120
90	12960	97200
91	13104	98280
92	13248	99360
93	13392	100440
94	13536	101520
95	13680	102600
96	13824	103680
97	13968	104760
98	14112	105840
99	14256	106920
100	14400	108000

- DESIGN NOTES:**
- DESIGN LOADINGS:
 - ASHTO HS-20-44 W/ IMPACT
 - DEPTH OF COVER = 4" - 5" (10) PCF ASSUMED
 - ASSUMED WATER TABLE = BELOW BOTTOM OF PRECAST
 - DRY LATERAL EARTH PRESSURE (EP) = 40 PCF
 - LATERAL LIVE LOAD SURCHARGE = 80 PSF (APPLIED TO # BELOW GRADE)
 - NO LATERAL BURDENING FROM ADJACENT BUILDINGS, WALLS, PILES, OR FOUNDATIONS
 - CONCRETE OR CRY COMPRESSIVE STRENGTH SHALL BE 4000 PSI
 - STEEL REINFORCEMENT: REBAR: ASTM A615 OR A706, GRADE 60
 - MESH REINFORCEMENT: ASTM A106, S1, GRADE 60
 - CEMENT: ASTM C 150 SPECIFICATION
 - STORMCAPTURE MODULE TYPE = DETENTION
 - REQUIRED BASE LAYER DEPTH = NOT APPLICABLE
 - REQUIRED WATER ALLOWABLE SOIL BEARING PRESSURE = 2,500 PSF
 - REFERENCE STANDARDS:
 - ASTM C 802
 - ASTM C 891
 - ASTM C 913
 - CONSTRUCTION EQUIPMENT EXCEEDING DESIGN LOADINGS SHALL NOT BE ALLOWED ON STRUCTURE. ANY DESIGN CONSTRAINT DIFFERENT FROM ABOVE REQUIRES CUSTOM STRUCTURAL DESIGN AND MAY REQUIRE THICKER SUBGRADE AND REVISED PRICING.

- NOTES TO REVIEWING ENGINEER:**
- THIS SYSTEM IS DESIGNED TO THE PARAMETERS NOTED. PLEASE VERIFY THAT THESE PARAMETERS MEET PROJECT REQUIREMENTS (I.E. LIFT LOAD AND FILL RANGE). IF DESIGN PARAMETERS ARE INCORRECT NOTIFY OLDCASTLE IMMEDIATELY FOR REDESIGN AND RE-PRICING.
 - REVIEWING ENGINEER TO CONFIRM ALL PIPE PENETRATION LOCATIONS, SIZES, AND INVERTS.
 - REVIEWING ENGINEER TO CONFIRM ALL MANWAY ACCESS LOCATIONS AND RIM ELEVATIONS.
 - UNLESS OTHERWISE NOTED, ALL PIPE SUPPLIED AND INSTALLED BY OTHERS.
 - THIS SYSTEM IS DESIGNED FOR A GROUNDWATER TABLE BELOW SYSTEM INVERT. REVIEWING ENGINEER TO VERIFY THAT THE DESIGN GROUNDWATER TABLE IS BELOW INVERT OF PRECAST. IF DESIGN PARAMETERS ARE INCORRECT NOTIFY OLDCASTLE IMMEDIATELY FOR REDESIGN AND RE-PRICING.
 - THIS SYSTEM IS DESIGNED WITHOUT A CONTAMINANT MEMBRANE LINER. IF A LINER IS NEEDED PLEASE CONTACT OLDCASTLE TO PROVIDE THIS OPTION IN THE FINAL DESIGN.

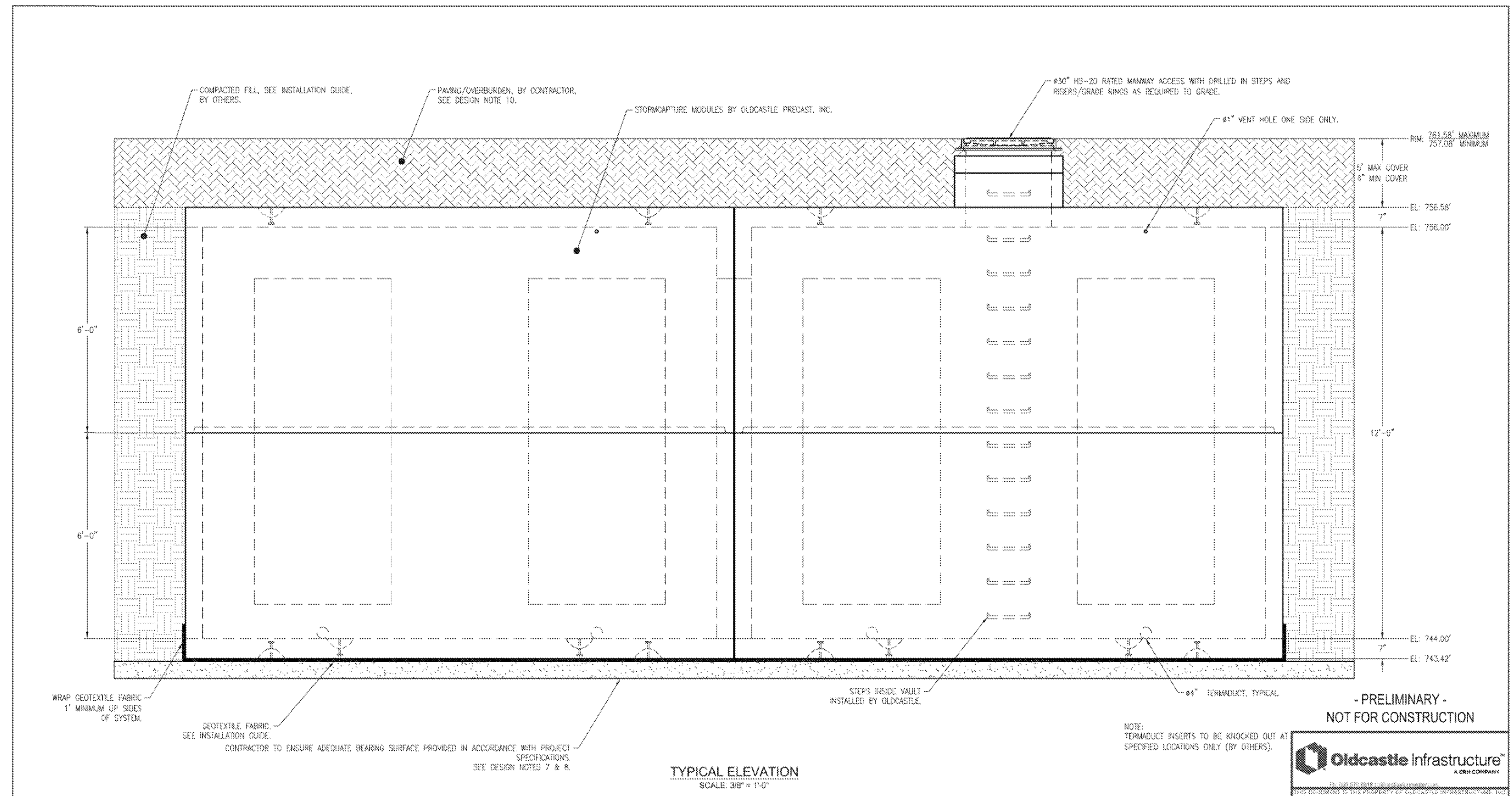
- PRELIMINARY -
NOT FOR CONSTRUCTION

STORMCAPTURE 6
SCI Detention System

Storm Association:
Georgetown Fire Station No. 7 - Georgetown, TX

NO.	REV.	DATE	BY	CHKD.	APP'D.
SCDD-1014-3-SC2_DT		5/17/2018			

2 of 2



- PRELIMINARY -
NOT FOR CONSTRUCTION

STORMCAPTURE 6
SCI Detention System

Storm Association:
Georgetown Fire Station No. 7 - Georgetown, TX

NO.	REV.	DATE	BY	CHKD.	APP'D.
SCDD-1014-3-SC2_DT		5/17/2018			

2 of 2



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ROBERT C. SCHMIDT
REGISTERED PROFESSIONAL ENGINEER
50465
11/16/18

STRAND ASSOCIATES
OSA JOB No.
3935.045

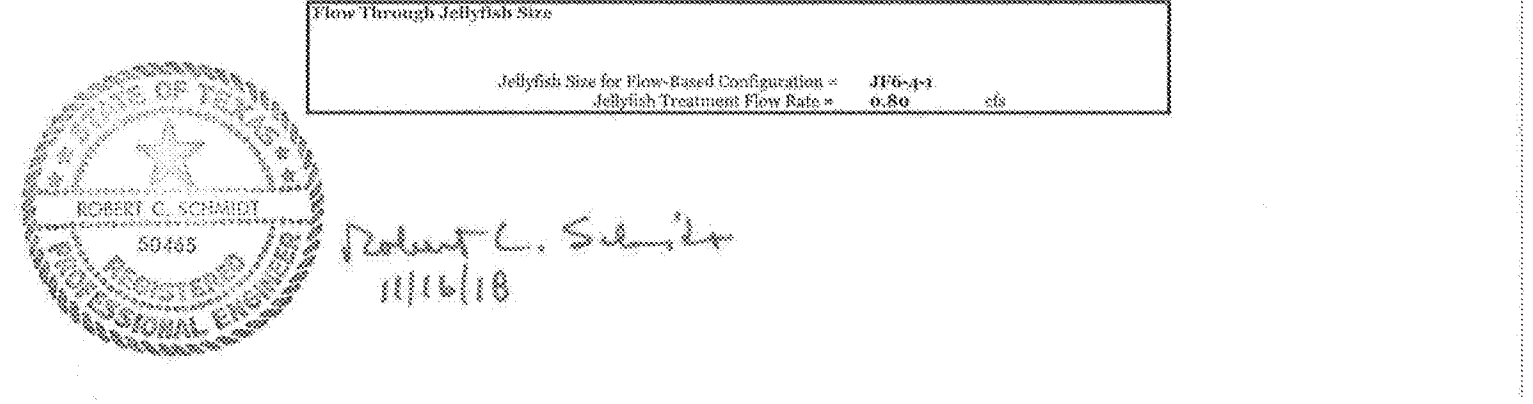
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BRW PROJECT NUMBER: 218044.00

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FIRE STATION No. 7
2703 EAST STATE HIGHWAY 29
GEORGETOWN, TX 78626

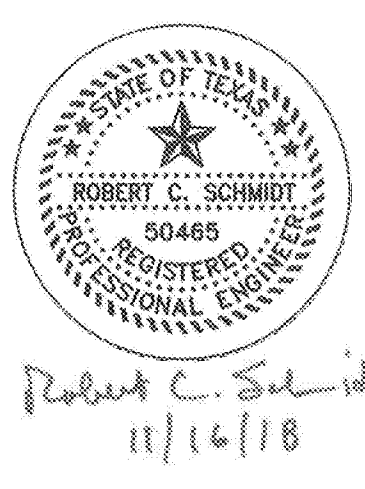
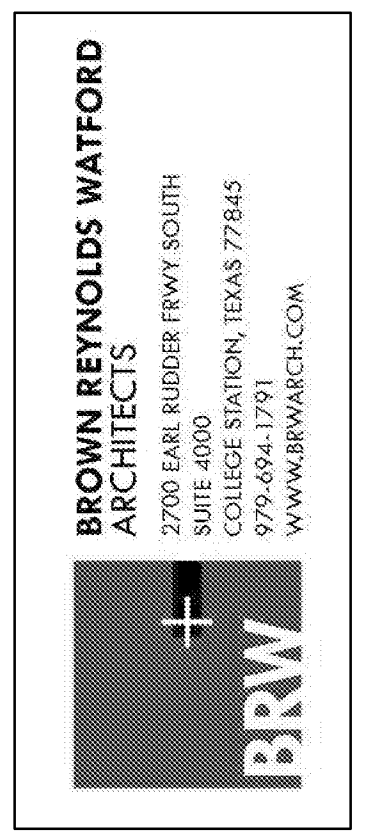
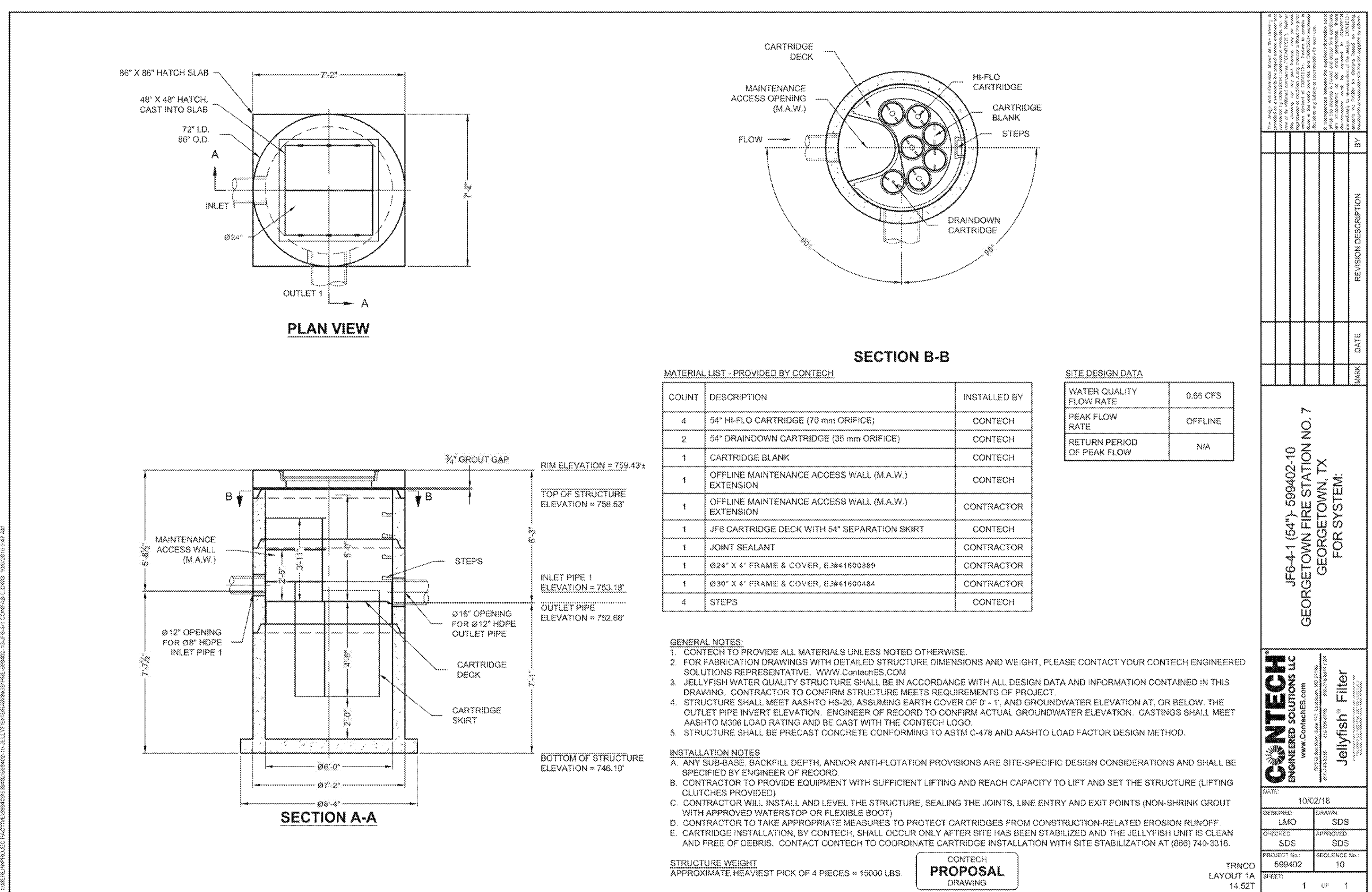
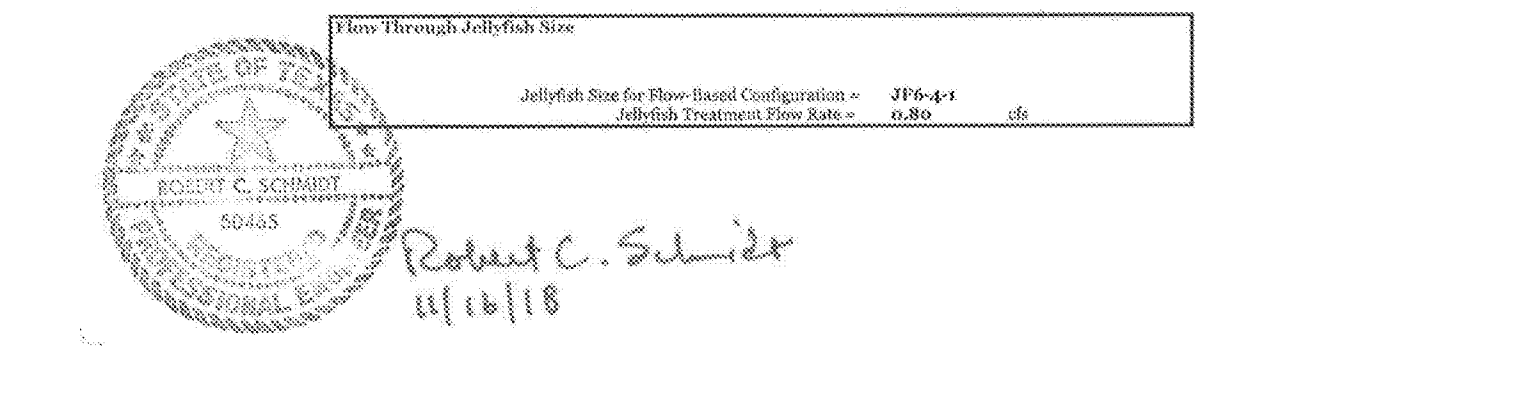
NO.	REVISION	DATE

C9.0
DETENTION BASIN
DETAILS

Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality
 TSS Removal Calculations
 Project Name: Georgetown Fire Station No. 7
 Date Prepared: 11/16/2018
 1. The Required Load Reduction for the total project:
 Calculations from 80-348 Page 3-47 to 3-50
 L_{max} required = Required TSS removal resulting from the proposed development = 80% of increased load
 A₂ = Not increase in impervious area for the project
 P = Average annual precipitation, inches
 Site Data: Determine Required Load Removal Based on the Entire Project
 County = Williamson
 Total project area included in plan = 6.84 acres
 Pre-development impervious area within the limits of the plan = 0.73 acres
 Total post-development impervious area within the limits of the plan = 2.14 acres
 Total post-development impervious cover fraction = 0.33
 P = 38 inches
 L_{max} required = 1266 lbs.
 Number of drainage basins / outfall areas leaving the plan area = 1
 2. Drainage Basin Parameters (This information should be provided for each basin):
 Drainage Basin/Outfall Area No. = 1
 Total drainage basin/outfall area = 3.00 acres
 Pre-development impervious area within drainage basin/outfall area = 0.73 acres
 Post-development impervious area within drainage basin/outfall area = 2.14 acres
 Post-development impervious cover fraction within drainage basin/outfall area = 0.68
 L_{max} = 1267 lbs.
 3. Indicate the proposed BMP Code for this basin:
 Proposed BMP = JF
 Removal efficiency = 86%
 4. Calculate Maximum TSS Load Removal (L_r) for this Drainage Basin by the selected BMP Type:
 RG-348 Page 3-21 Equation 3-7
 $L_r = (BMP\ efficiency) \times P \times (A_1 \times 0.25 + A_2 \times 0.54)$
 A₁ = Total On-Site drainage area in the BMP catchment area
 A₂ = Impervious area proposed in the BMP catchment area
 A₃ = Pervious area remaining in the BMP catchment area
 L_r = TSS Load removed from this catchment area by the proposed BMP
 A₁ = 3.00 acres
 A₂ = 2.88 acres
 A₃ = 1.83 acres
 L_r = 1084 lbs.
 5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area:
 Desired fraction = 100%
 F = 0.47
 6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area:
 Calculations from 80-348 Page Section 3-5.2
 Offsite area draining to BMP = 0.00 acres
 Offsite impervious cover draining to BMP = 0.00 acres
 Rainfall Intensity = 0.30 inches per hour
 Rainfall Area = 1.29 acres
 Catchment length = 54 inches
 Peak Treatment Flow Required = 0.51 cubic feet per second
 2. Jellyfish
 Designed as Required in 80-348 Section 3.2.20
 Flow Through Jellyfish Size
 Jellyfish Size for Flow-Based Configuration = JF-P-1
 Jellyfish Treatment Flow Rate = 0.86 cfs



Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality
 TSS Removal Calculations
 Project Name: Georgetown Fire Station No. 7
 Date Prepared: 11/16/2018
 1. The Required Load Reduction for the total project:
 Calculations from 80-348 Page 3-47 to 3-50
 L_{max} required = Required TSS removal resulting from the proposed development = 85% of increased load
 A₂ = Not increase in impervious area for the project
 P = Average annual precipitation, inches
 Site Data: Determine Required Load Removal Based on the Entire Project
 County = Williamson
 Total project area included in plan = 6.84 acres
 Pre-development impervious area within the limits of the plan = 0.73 acres
 Total post-development impervious area within the limits of the plan = 2.14 acres
 Total post-development impervious cover fraction = 0.33
 P = 38 inches
 L_{max} required = 1266 lbs.
 Number of drainage basins / outfall areas leaving the plan area = 1
 2. Drainage Basin Parameters (This information should be provided for each basin):
 Drainage Basin/Outfall Area No. = 1
 Total drainage basin/outfall area = 3.00 acres
 Pre-development impervious area within drainage basin/outfall area = 0.73 acres
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 L_{max} = 1267 lbs.
 3. Indicate the proposed BMP Code for this basin:
 Proposed BMP = JF
 Removal efficiency = 86%
 4. Calculate Maximum TSS Load Removal (L_r) for this Drainage Basin by the selected BMP Type:
 RG-348 Page 3-21 Equation 3-7
 $L_r = (BMP\ efficiency) \times P \times (A_1 \times 0.25 + A_2 \times 0.54)$
 A₁ = Total On-Site drainage area in the BMP catchment area
 A₂ = Impervious area proposed in the BMP catchment area
 A₃ = Pervious area remaining in the BMP catchment area
 L_r = TSS Load removed from this catchment area by the proposed BMP
 A₁ = 3.00 acres
 A₂ = 2.88 acres
 A₃ = 1.83 acres
 L_r = 1084 lbs.
 5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area:
 Desired fraction = 100%
 F = 0.47
 6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area:
 Calculations from 80-348 Page Section 3-5.2
 Offsite area draining to BMP = 0.00 acres
 Offsite impervious cover draining to BMP = 0.00 acres
 Rainfall Intensity = 0.30 inches per hour
 Rainfall Area = 1.29 acres
 Catchment length = 54 inches
 Peak Treatment Flow Required = 0.56 cubic feet per second
 2. Jellyfish
 Designed as Required in 80-348 Section 3.2.20
 Flow Through Jellyfish Size
 Jellyfish Size for Flow-Based Configuration = JF-P-1
 Jellyfish Treatment Flow Rate = 0.86 cfs



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NO.	REVISION	DATE

C9.1
 STORM WATER TREATMENT BASIN DETAILS I

**GUIDELINES FOR DESIGN AND INSTALLATION OF
TEMPORARY EROSION AND SEDIMENTATION CONTROLS**

TYPE OF STRUCTURE	REACH LENGTH	MAXIMUM DRAINAGE AREA	SLOPE
SILT FENCE	N/A	2 ACRES	0 - 10%
	200 FEET	2 ACRES	10 - 20%
	100 FEET	1 ACRE	20 - 30%
TRIANGLE FILTER DIKE	100 FEET	1/2 ACRE	< 30% SLOPE
	50 FEET	1/4 ACRE	> 30% SLOPE
ROCK BERM **, **	500 FEET	< 5 ACRES	0 - 10%

* FOR ROCK BERM DESIGN WHERE PARAMETERS ARE OTHER THAN STATED, DRAINAGE AREA CALCULATIONS AND ROCK BERM DESIGN MUST BE SUBMITTED FOR REVIEW.

** HIGH SERVICE ROCK BERMS MAY BE REQUIRED IN AREAS OF ENVIRONMENTAL SIGNIFICANCE AS DETERMINED BY THE CITY OF GEORGETOWN.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

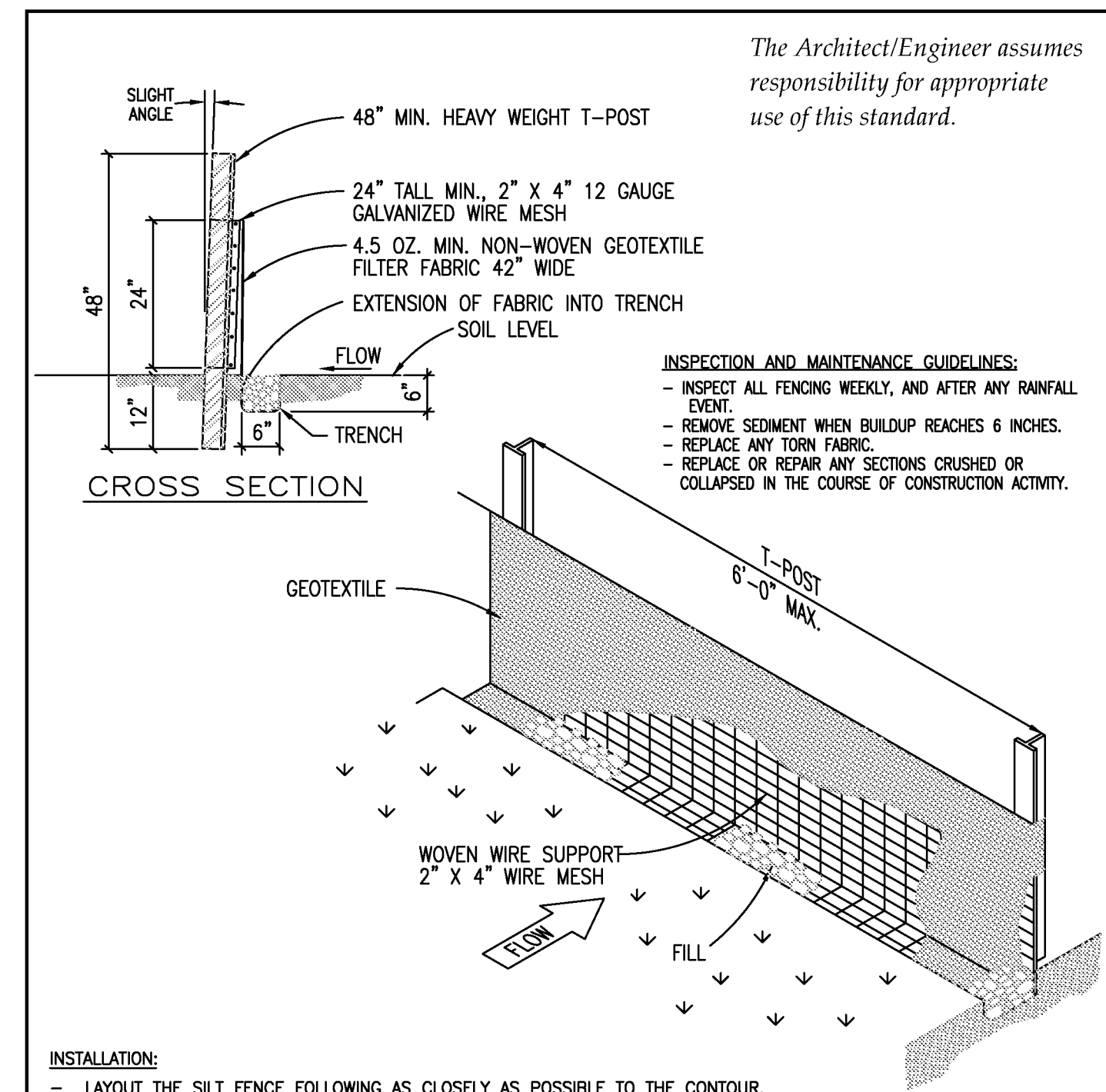
	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS TEMPORARY EROSION AND SEDIMENTATION CONTROL GUIDELINES	ADOPTED 6/21/2006 ECO1
	DATE: 1/2003 BY: MRS CHECKED BY: TRB	

NOTE: THIS SECTION IS INTENDED TO ASSIST THOSE PERSONS PREPARING WATER POLLUTION ABATEMENT PLANS (WPAP) OR STORM WATER POLLUTION PREVENTION PLANS (SWPP) THAT COMPLY WITH FEDERAL, STATE AND/OR LOCAL STORM WATER REGULATIONS.

- THE CONTRACTOR TO INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, GRADING, OR EXCAVATION). CONTRACTOR TO REMOVE EROSION/SEDIMENTATION CONTROLS AT THE COMPLETION OF PROJECT AND GRASS RESTORATION.
- ALL PROJECTS WITHIN THE RECHARGE ZONE OF THE EDWARDS AQUIFER SHALL SUBMIT A BEST MANAGEMENT PRACTICES AND WATER POLLUTION AND ABATEMENT PLAN TO THE TWC FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
- THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS TO BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN AND WATER POLLUTION ABATEMENT PLAN. DEVIATIONS FROM THE APPROVED PLAN MUST BE SUBMITTED TO AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- ALL PLANTING SHALL BE DONE BETWEEN MAY 1 AND SEPTEMBER 15 EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING. IF PLANTING IS AUTHORIZED TO BE DONE OUTSIDE THE LATES SPECIFIED, THE SEED SHALL BE PLANTED WITH THE ADDITION OF WINTER FERTILIZER (NUTRIENT 31) AT A RATE OF 100#/ACRE. GRASS SHALL BE COMMON BERBERMUDA GRASS, HILLED, MINIMUM 80% PURE LIVE SEED. ALL GRASS SEED SHALL BE FREE FROM NOXIOUS WEED SEED. AT HEIGHT CROP RECLAIMED AND TREATED WITH APPROPRIATE FUNGICIDE AT TIME OF MOWING. SEED SHALL BE FURNISHED IN SEALED, STANDARD CONTAINERS WITH DEALER'S GUARANTEED ANALYSIS.
- ALL DISTURBED AREAS TO BE RESTORED AS NOTED IN THE WATER POLLUTION ABATEMENT PLAN.
- THE PLANTED AREA TO BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF FOUR (4) INCHES. THE IRRIGATION TO OCCUR AT 10-DAY INTERVALS DURING THE FIRST TWO MONTHS TO INSURE GERMINATION AND ESTABLISHMENT OF THE GRASS. RAINFALL OCCURRENCES OF 1/2 INCH OR GREATER TO POSTPONE THE WATERING SCHEDULE ONE WEEK.
- RESTORATION TO BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 85% COVERAGE. PROVIDED NO BARE SPOTS LARGER THAN 25 SQUARE FEET EXIST.
- A MINIMUM OF FOUR (4) INCHES OF TOPSOIL TO BE PLACED IN ALL AREAS DISTURBED BY CONSTRUCTION.
- THE CONTRACTOR TO HYDROMULCH OR SOO (AS SHOWN ON PLANS) ALL EXPOSED CUTS AND FILLS UPON COMPLETION OF CONSTRUCTION.
- EROSION AND SEDIMENTATION CONTROLS TO BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILDUP WITHIN TREE DROPLINE.
- TO AVOID SOIL COMPACTION, CONTRACTOR SHALL NOT ALLOW VEHICULAR TRAFFIC, PARKING, OR STORAGE OF EQUIPMENT OR MATERIALS IN THE TREE DROPLINE AREAS.
- WHERE A FENCE IS CLOSER THAN FOUR (4) FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF EIGHT (8) FEET (OR TO THE LIMITS OF LOWER BRANCHES) IN ADDITION TO THE FENCING. TREES TO BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
- ANY ROOT EXPOSED BY CONSTRUCTION ACTIVITY TO BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOPSOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN TWO DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
- CONTRACTOR TO PRUNE VEGETATION TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND EQUIPMENT BEFORE DAMAGE OCCURS (RIPPING OF BRANCHES, ETC.). ALL FINISHED PRUNING TO BE DONE ACCORDING TO RECOGNIZED APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES).
- THE CONTRACTOR IS TO INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER EVERY RAINFALL EXCEEDING 1/4 INCH TO VERIFY THAT THEY HAVE NOT BEEN SIGNIFICANTLY DISTURBED. ANY ACCUMULATED SEDIMENT AFTER A SIGNIFICANT RAINFALL TO BE REMOVED AND PLACED IN THE OWNER DESIGNATED SPILL DISPOSAL SITE. THE CONTRACTOR TO CONDUCT PERIODIC INSPECTIONS OF ALL EROSION/SEDIMENTATION CONTROLS AND TO MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO ASSURE CONTINUED EFFECTIVE OPERATION OF EACH DEVICE.
- WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT IMMEDIATELY ADJACENT TO A PROTECTED TREE, ERECT THE FENCE APPROXIMATELY TWO TO FOUR FEET (2'-4') BEHIND THE AREA IN QUESTION.
- NO ABOVE AND/OR BELOW GROUND TEMPORARY FUEL STORAGE FACILITIES TO BE STORED ON THE PROJECT SITE.
- IF EROSION AND SEDIMENTATION CONTROL SYSTEMS ARE EXISTING FROM PRIOR CONTRACTS, OWNER'S REPRESENTATIVE AND THE CONTRACTOR TO EXAMINE THE EXISTING EROSION AND SEDIMENTATION CONTROL SYSTEMS FOR DAMAGE PRIOR TO CONSTRUCTION. ANY DAMAGE TO PREEXISTING EROSION AND SEDIMENTATION CONTROLS NOTED TO BE REPAIRED AT OWNERS EXPENSE.
- INTENTIONAL RELEASE OF VEHICLE OR EQUIPMENT FLUIDS ONTO THE GROUND IS NOT ALLOWED. CONTAMINATED SOIL RESULTING FROM ACCIDENTAL SPILL TO BE REMOVED AND DISPOSED OF PROPERLY.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS EROSION AND SEDIMENTATION AND TREE PROTECTION NOTES	ADOPTED 6/21/2006 ECO1A
	DATE: 1/2003 BY: MRS CHECKED BY: TRB	



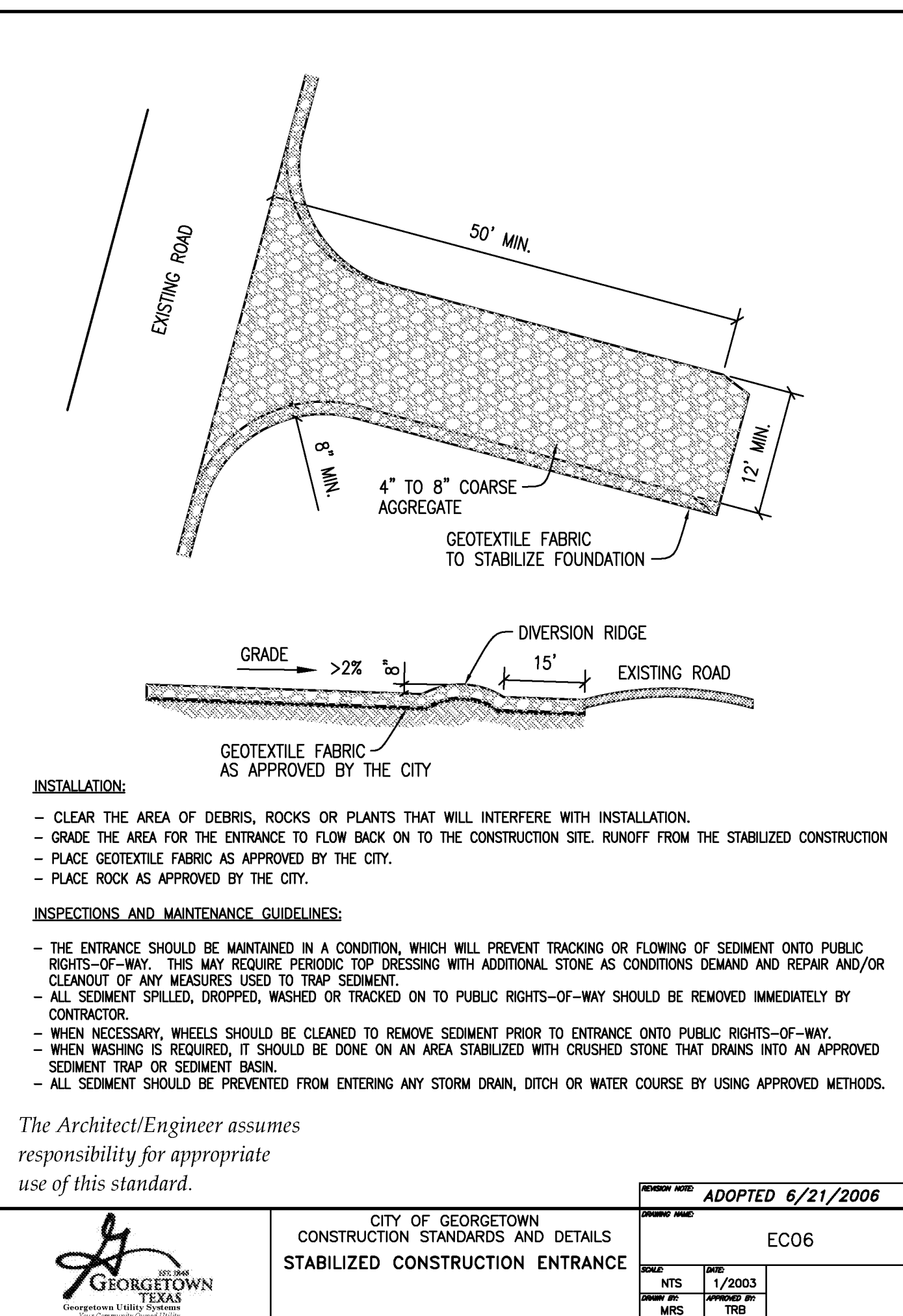
The Architect/Engineer assumes responsibility for appropriate use of this standard.

- INSPECTION AND MAINTENANCE GUIDELINES:**
- INSPECT ALL FENCING WEEKLY, AND AFTER ANY RAINFALL EVENT.
 - REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES.
 - REPLACE ANY TORN FABRIC.
 - REPLACE OR REPAIR ANY SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY.

INSTALLATION:

- LAYOUT THE SILT FENCE FOLLOWING AS CLOSELY AS POSSIBLE TO THE CONTOUR.
- CLEAR THE GROUND OF DEBRIS, ROCKS, PLANTS (INCLUDING GRASSES TALLER THAN 2") TO PROVIDE A SMOOTH FLOW APPROACH SURFACE. EXCAVATE 6" DEEP X 6" WIDE TRENCH ON UPSTREAM SIDE OF FACE PER PLANS.
- DRIVE THE HEAVY DUTY T-POST AT LEAST 12 INCHES INTO THE GROUND AND AT A SLIGHT ANGLE TOWARDS THE FLOW.
- ATTACH THE 2" X 4" 12 GAUGE WELDED WIRE MESH TO THE T-POST WITH 1 1/2 GAUGE GALVANIZED T-POST CLIPS. THE TOP OF THE WIRE TO BE 24" ABOVE GROUND LEVEL. THE WELDED WIRE MESH TO BE OVERLAPPED 6" AND TIED AT LEAST 6 TIMES WITH 40C RINGS.
- THE SILT FENCE TO BE INSTALLED WITH A SKIRT A MINIMUM OF 6" WIDE PLACED ON THE UPHILL SIDE OF THE FENCE INSIDE EXCAVATED TRENCH. THE FABRIC TO OVERLAP THE TOP OF THE WIRE BY 1".
- ANCHOR THE SILT FENCE BY BACKFILLING WITH EXCAVATED DIRT AND ROCKS (NOT LARGER THAN 2").
- GEOTEXTILE SPLICES SHOULD BE A MINIMUM OF 18" WIDE ATTACHED IN AT LEAST 6 PLACES. SPLICES IN CONCENTRATED FLOW AREAS WILL NOT BE ACCEPTED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS SILT FENCE DETAIL	ADOPTED 6/21/2006 ECO2
	DATE: 1/2003 BY: MRS CHECKED BY: TRB	



INSTALLATION:

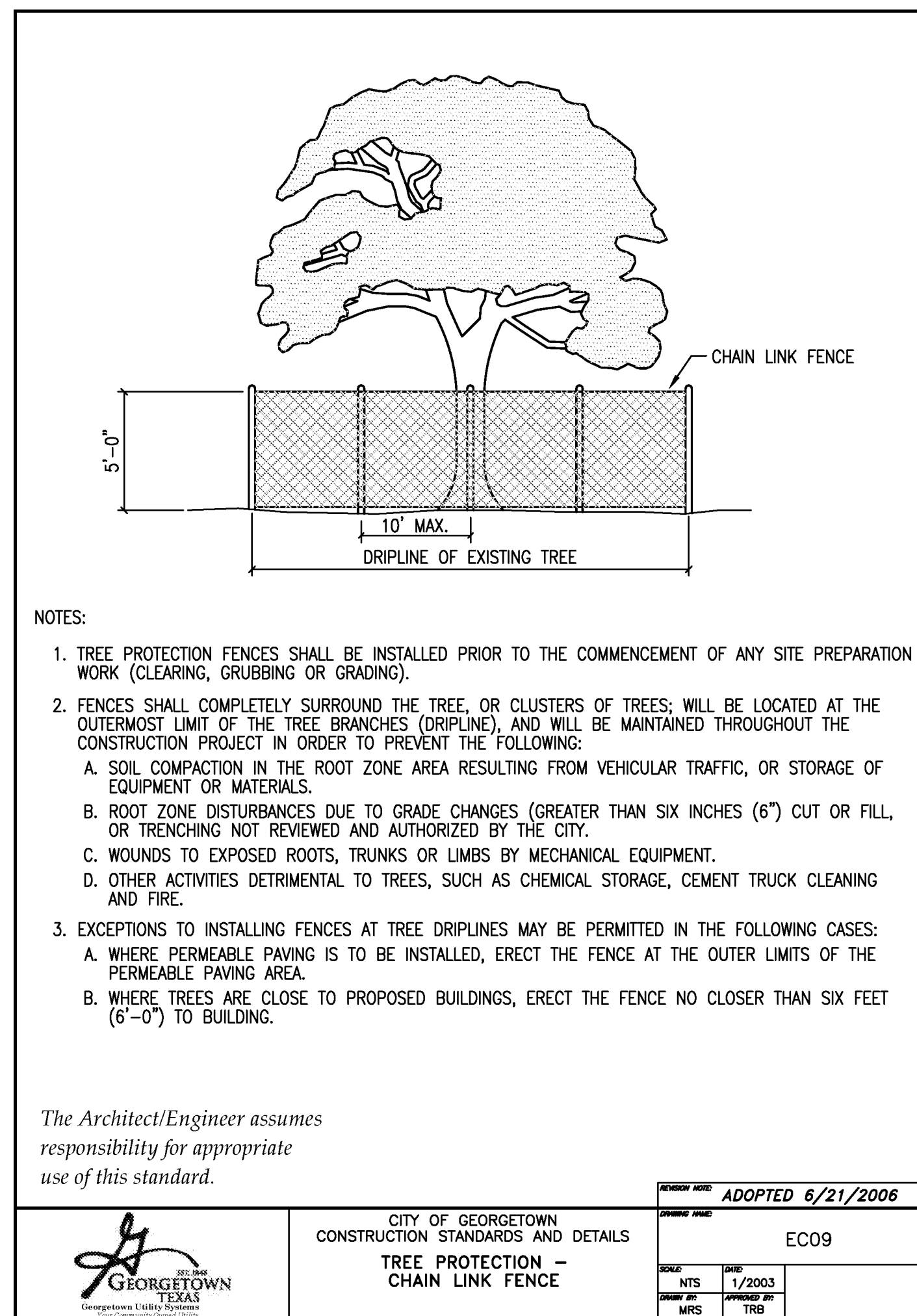
- CLEAR THE AREA OF DEBRIS, ROCKS OR PLANTS THAT WILL INTERFERE WITH INSTALLATION.
- GRADE THE AREA FOR THE ENTRANCE TO FLOW BACK ON TO THE CONSTRUCTION SITE. RUNOFF FROM THE STABILIZED CONSTRUCTION PLACE GEOTEXTILE FABRIC AS APPROVED BY THE CITY.
- PLACE ROCK AS APPROVED BY THE CITY.

INSPECTIONS AND MAINTENANCE GUIDELINES:

- THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANUP OF ANY MEASURES USED TO TRAP SEDIMENT.
- ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON TO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
- WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
- ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE BY USING APPROVED METHODS.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS STABILIZED CONSTRUCTION ENTRANCE	ADOPTED 6/21/2006 ECO6
	DATE: 1/2003 BY: MRS CHECKED BY: TRB	

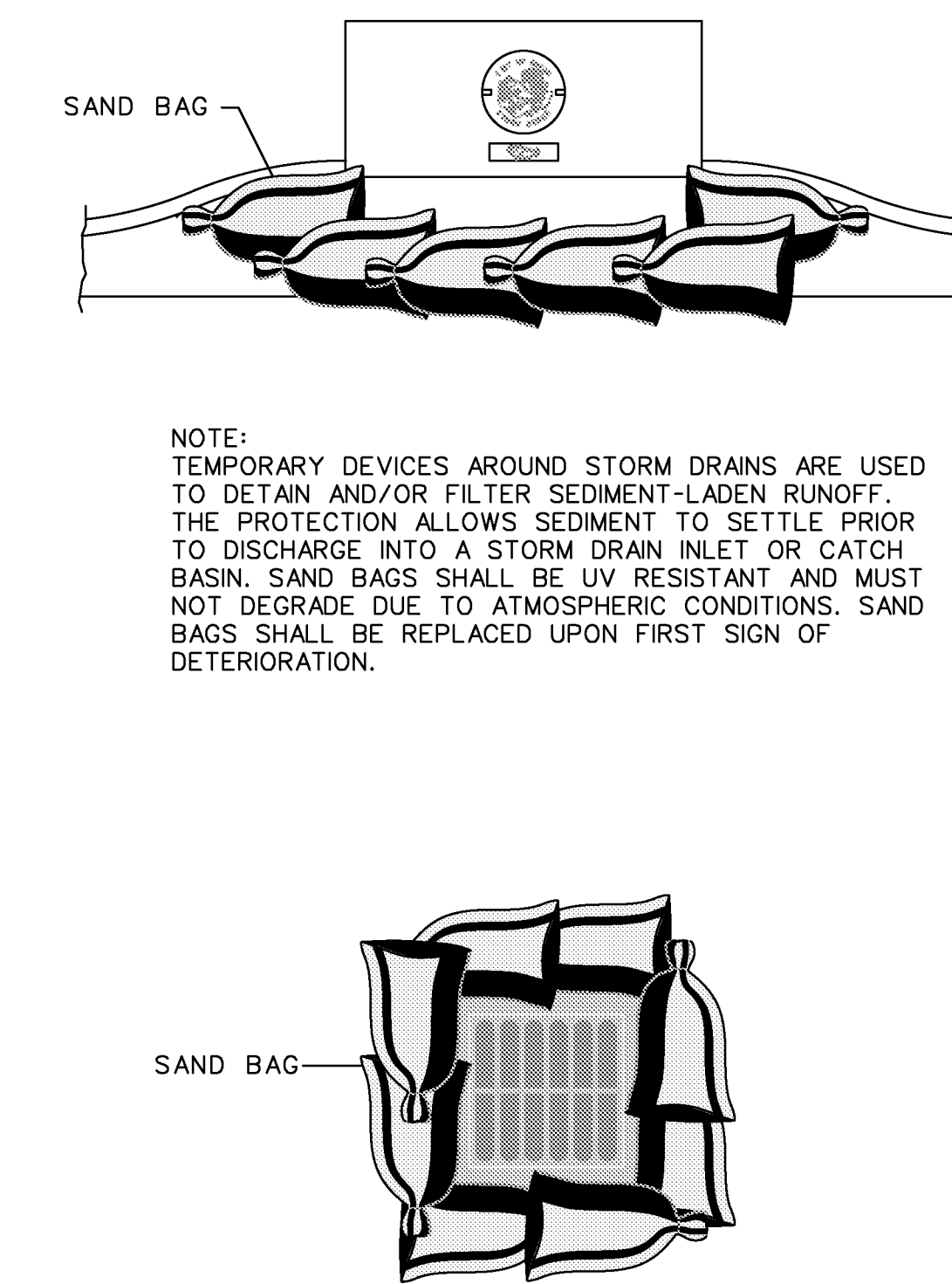


NOTES:

- PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR GRADING).
- FENCES SHALL COMPLETELY SURROUND THE TREE, OR CLUSTERS OF TREES, WILL BE LOCATED AT THE OUTERMOST LIMIT OF THE TREE BRANCHES (DROPLINE), AND WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
 - SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MATERIALS.
 - ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN SIX INCHES (6") CUT OR FILL, OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY.
 - WOUNDS TO EXPOSED ROOTS, TRUNKS OR LIMBS BY MECHANICAL EQUIPMENT.
 - OTHER ACTIVITIES DETRIMENTAL TO TREES, SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING AND FIRE.
- EXCEPTIONS TO INSTALLING FENCES AT TREE DROPLINES MAY BE PERMITTED IN THE FOLLOWING CASES:
 - WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
 - WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN SIX FEET (6'-0") TO BUILDING.

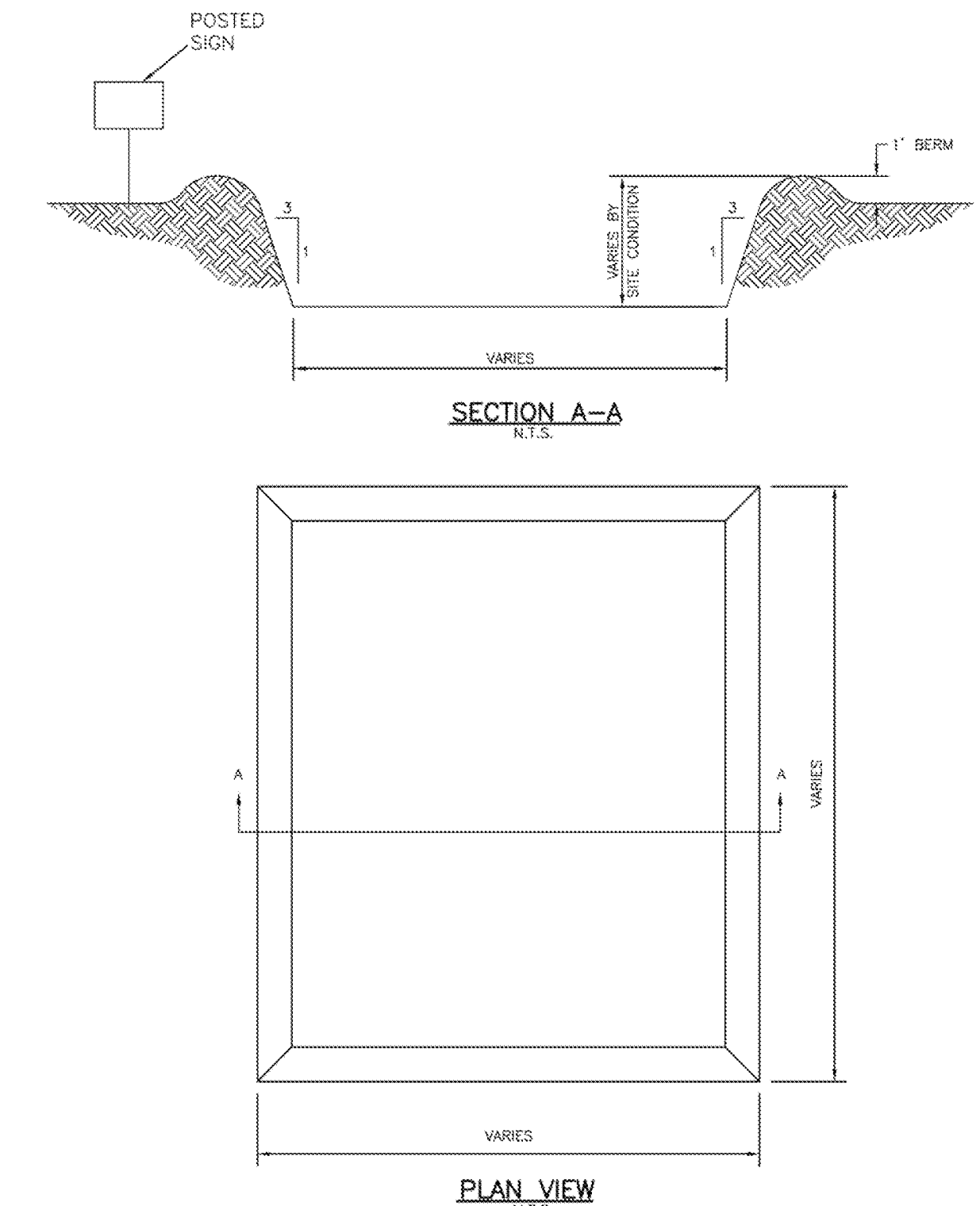
The Architect/Engineer assumes responsibility for appropriate use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS TREE PROTECTION - CHAIN LINK FENCE	ADOPTED 6/21/2006 ECO9
	DATE: 1/2003 BY: MRS CHECKED BY: TRB	



NOTE:
TEMPORARY DEVICES AROUND STORM DRAINS ARE USED TO DETAIN AND/OR FILTER SEDIMENT-LADEN RUNOFF. THE PROTECTION ALLOWS SEDIMENT TO SETTLE PRIOR TO DISCHARGE INTO A STORM DRAIN INLET OR CATCH BASIN. SAND BAGS SHALL BE UV RESISTANT AND MUST NOT DEGRADE DUE TO ATMOSPHERIC CONDITIONS. SAND BAGS SHALL BE REPLACED UPON FIRST SIGN OF DETERIORATION.

1 STORM DRAIN INLET PROTECTION
NTS



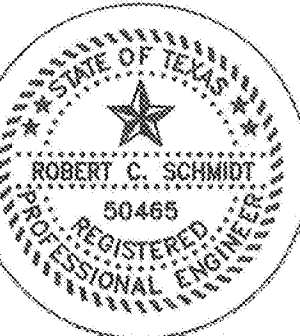
GENERAL NOTES:

- POST A SIGN READING "CONCRETE WASHOUT PIT" NEXT TO THE PIT.
- VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASH OUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
- UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASH OUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
- CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SMALL, DITCH, OR WATERWAY.
- CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.

2 CONCRETE TRUCK WASHOUT AREA
NTS

NOTE:
ALL APPLICABLE GEORGETOWN STANDARD DETAILS ARE NOT NECESSARILY INCLUDED HEREIN. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING A COMPLETE COPY OF THE CITY OF GEORGETOWN'S UNIFIED DEVELOPMENT CODE AND APPLICABLE CITY STANDARD DETAILS.

BROWN REYNOLDS WATFORD ARCHITECTS
2700 EARL RIDDER FERRY SOUTH
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Robert C. Schmidt
11/16/18

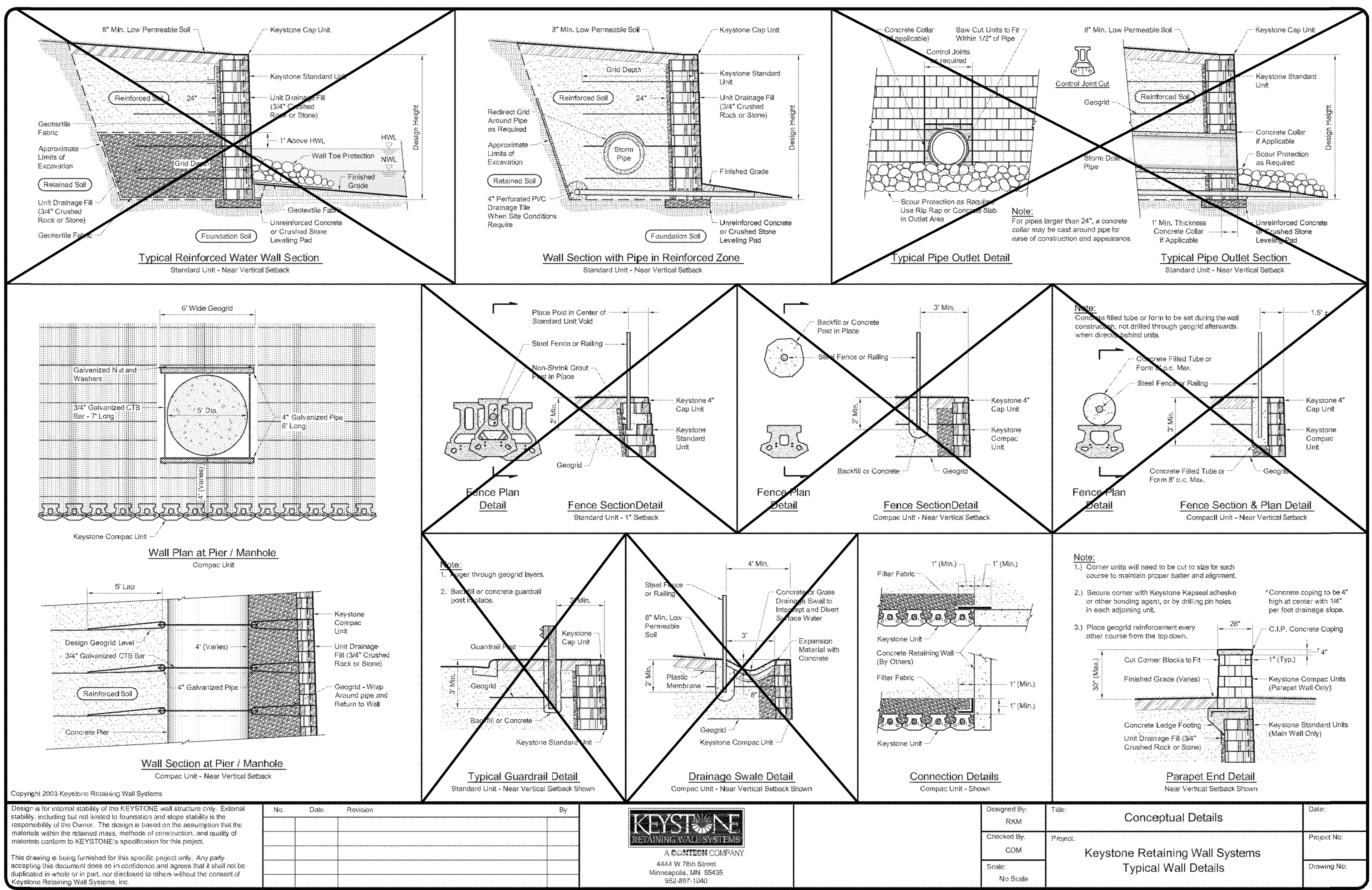
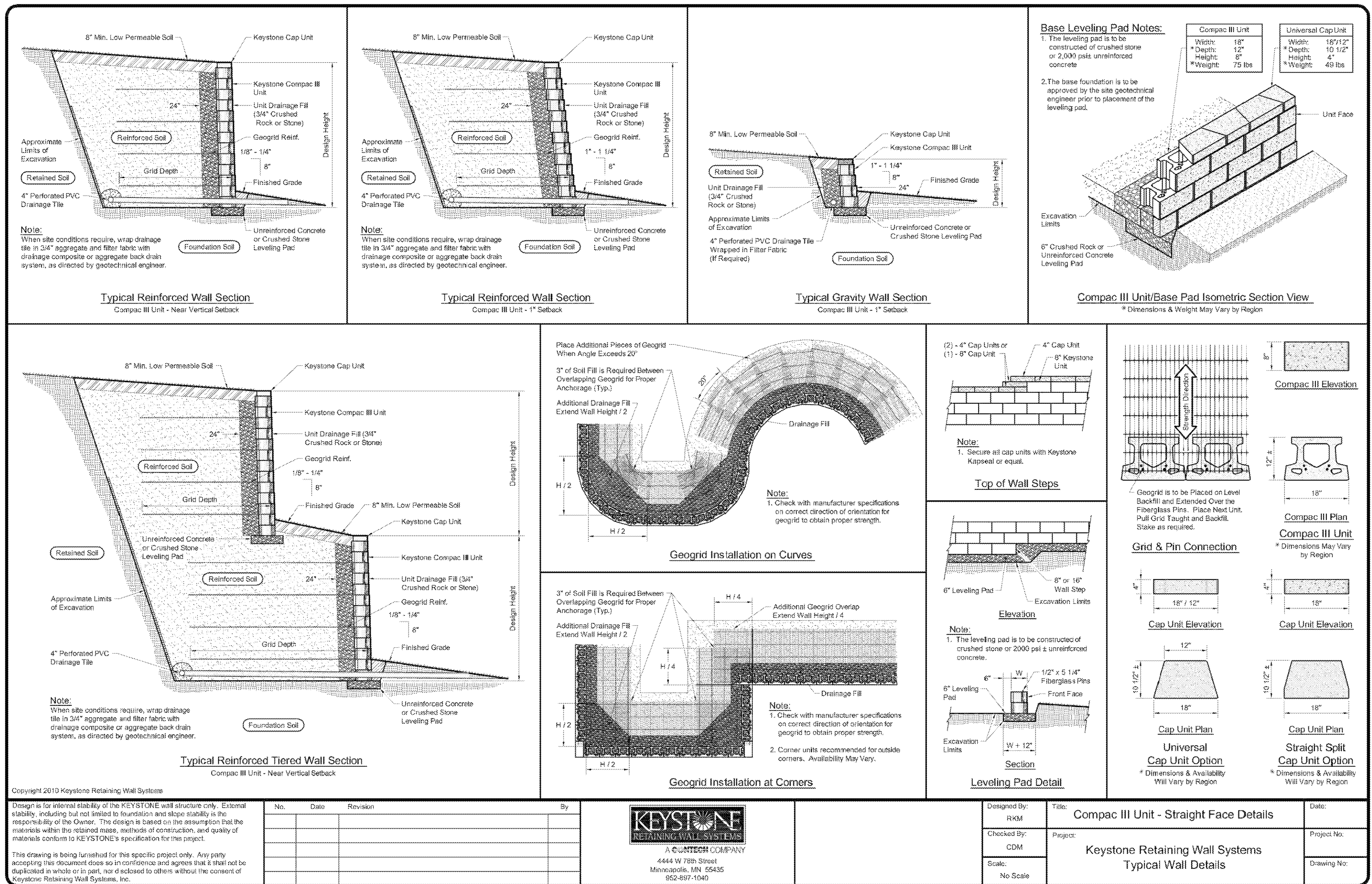
STRANDS
ASSOCIATES
OSA JOB No.
3935.045

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DATE: 5/17/2018
DRAWN BY: RCS
CHECKED BY: DEG/BAG
BRW PROJECT NUMBER: 218044.00

**CITY OF GEORGETOWN
FIRE STATION No. 7**
2703 EAST STATE HIGHWAY 29
GEORGETOWN, TX 78626

NO.	REVISION	DATE

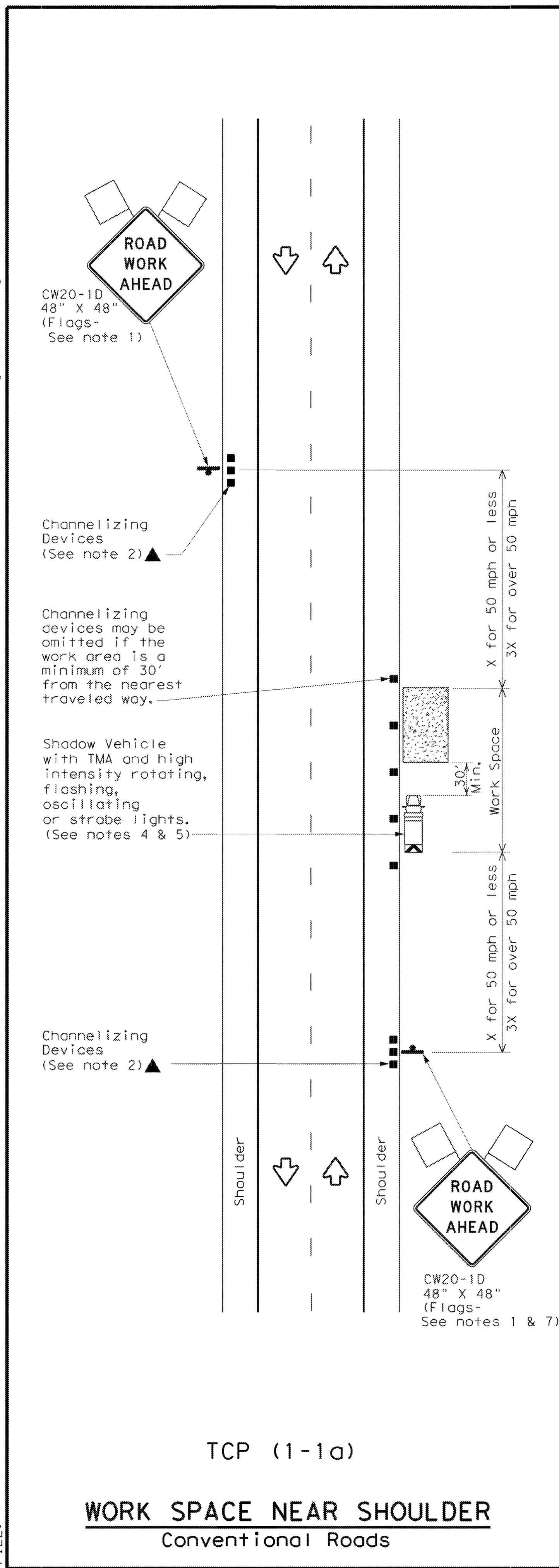
C10.0
EROSION CONTROL
DETAILS



NO.	REVISION	DATE

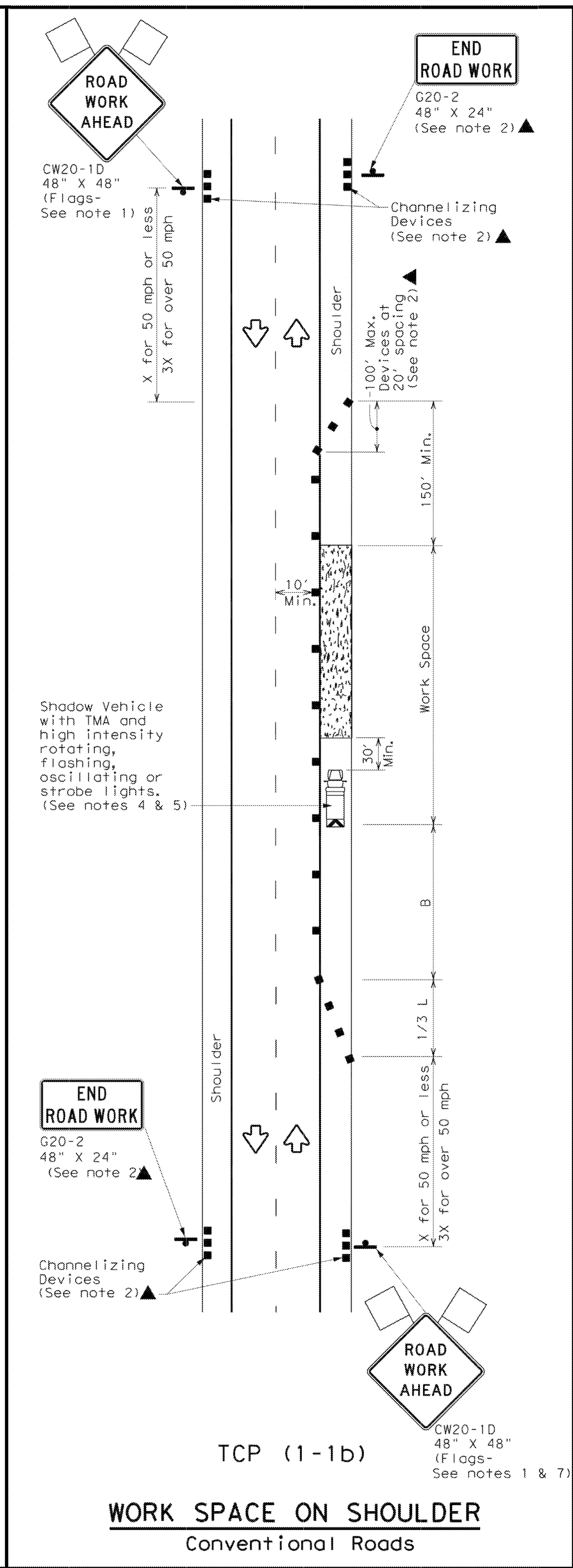
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FILES: _____



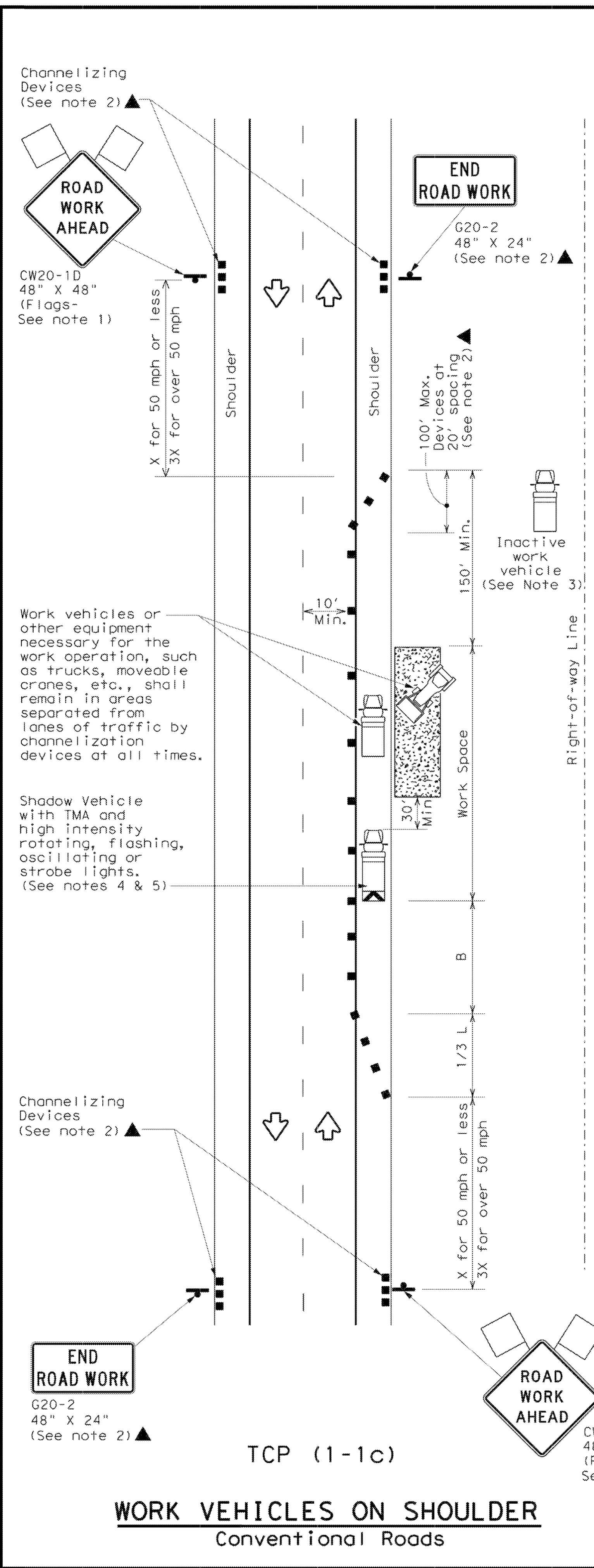
TCP (1-1a)

WORK SPACE NEAR SHOULDER
Conventional Roads



TCP (1-1b)

WORK SPACE ON SHOULDER
Conventional Roads



TCP (1-1c)

WORK VEHICLES ON SHOULDER
Conventional Roads

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L = WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70	700'	770'	840'	70'	140'	800'	475'	
75	750'	825'	900'	75'	150'	900'	540'	

* Conventional Roads Only
** Taper lengths have been rounded off.
L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

- GENERAL NOTES**
- Flags attached to signs where shown are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
 - Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
 - A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
 - See TCP(5-1) for shoulder work on divided highways, expressways and freeways.
 - CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

Texas Department of Transportation
Traffic Operations Division Standard

**TRAFFIC CONTROL PLAN
CONVENTIONAL ROAD
SHOULDER WORK**

TCP (1-1) - 18

FILE:	tcp1-1-18.dgn	DN:	CK:	DN:	CK:
© TxDOT	December 1985	CONT:	SECT:	JOB:	HIGHWAY:
REVISIONS					
2-94	4-98				
8-95	2-12				
1-97	2-18				
DIST:		COUNTY:		SHEET NO.	

LANDSCAPE REQUIREMENTS SUMMARY

	LANDSCAPE AREA REQ.D	LANDSCAPE AREA PROPOSED	SHRUBS REQ.D	SHRUBS PROPOSED	EVERGREEN SHRUBS REQ.D	EVERGREEN SHRUBS PROPOSED	SHADE TREES REQ.D	SHADE TREES PROPOSED	EVERGREEN TREES REQ.D	EVERGREEN TREES PROPOSED
STREET YARD LANDSCAPING	5,813 SF	15,331 SF	20	28	-	-	10	10	-	-
PARKING LOT LANDSCAPING	410 SF	2,246 SF	-	-	-	-	4	4	-	-
BUFFERYARD LANDSCAPING	7,110 SF	7,110 SF	-	-	76	78	10	10	19	19
SCENIC GATEWAY OVERLAY DISTRICT LANDSCAPING	3,722 SF	4,171 SF	20	20	-	-	8	8	-	-
GRAND TOTAL	17,055 SF	23,191 SF*	48	48**	76	78	32	32***	19	19

*OVERLAY DISTRICT, STREET YARD, AND BUFFERYARD LANDSCAPING OVERLAP, SEE FILLED HATCHED REGION ON PLAN.

** SHRUBS IN THE GATEWAY OVERLAY DISTRICT COUNTED TOWARDS STREET YARD SHRUB REQUIREMENT WHERE APPLICABLE.

***TREES IN SIDE BUFFERYARD COUNTED TOWARDS SCENIC GATEWAY OVERLAY DISTRICT AND STREET YARD SHADE TREE REQUIREMENT WHERE APPLICABLE.

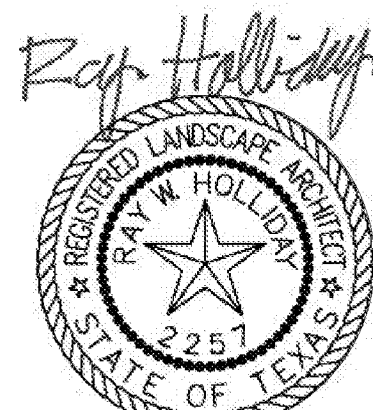
LEGEND

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
	-	CYNODON DACTYLON	BERMUDA GRASS SOD	-	RE: SPECIFICATIONS
	-	CYNODON DACTYLON	BERMUDA GRASS HYDROMULCH	-	RE: SPECIFICATIONS NOT REQUIRED IN UNDISTURBED AREAS
	48	SALVIA FARINACEA	BLUE SAGE (PERENNIAL)	1 GAL.	1' - 2' SPACING CONTAINER GROWN
	23	SALVIA GREGGI	AUTUMN SAGE (PERENNIAL)	1 GAL.	12" - 18" SPACING CONTAINER GROWN
	19	PHLOMIS FRUTICOSA	JERUSALEM SAGE (SHRUB)	3 GAL. MIN. 18" HEIGHT	3' SPACING CONTAINER GROWN
	22	HESPERALOE PARVIFLORA	RED YUCCA (SHRUB)	3 GAL. MIN. 18" HEIGHT	3' - 5' SPACING CONTAINER GROWN
	47	CALLISTEMON CITRINUS	BOTTLEBRUSH (SHRUB)	5 GAL. MIN. 18" HEIGHT	4' - 5' SPACING CONTAINER GROWN
	40	LEUCOPHYLLUM FRUTESCENS	TEXAS SAGE (SHRUB)	5 GAL. MIN. 18" HEIGHT	4' - 5' SPACING CONTAINER GROWN
	3	CUPRESSUS ARIZONICA	ARIZONA CYPRESS (EVERGREEN)	HEIGHT 20'-50'	SINGLE STRAIGHT TRUNK
	18	QUERCUS POLYMORPHA	MONTREY OAK (DECIDUOUS)	HEIGHT 40'-60'	SINGLE STRAIGHT TRUNK
	10	RHUS VIRENS	EVERGREEN SUMAC	HEIGHT 8'-10'	
	9	SOPHORA SECUNDIFLORA	MOUNTAIN LAUREL (EVERGREEN)	HEIGHT 10'-20'	
	9	-	SMALL BOULDER	2' - 3' DIAMETER	
TOTAL	248	*ALL PLANT SIZES MUST COMPLY THE CITY OF GEORGETOWN UDC REQUIREMENTS.			

	LANDSCAPE AREA
	HERITAGE / PROTECTED TREE TO REMAIN
	PROTECTED TREE TO BE REMOVED

LANDSCAPE PLAN NOTES:

- THE CONVENTIONAL SYSTEM FOR IRRIGATION HAS BEEN SELECTED FOR THIS DEVELOPMENT.
 - A SEPERATE IRRIGATION PLAN SHALL BE PROVIDED AT THE TIME OF APPLICATION FOR A BUILDING PERMIT.
 - MAINTENANCE: THE CURRENT OWNER AND SUBSEQUENT OWNERS OF THE LANDSCAPED PROPERTY, OR THE MANAGER OR AGENT OF THE OWNER, SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPED AREAS AND MATERIALS, REQUIRED BUFFER YARD AREAS AND MATERIALS AND REQUIRED SCREENING MATERIALS. SAID AREAS MUST BE MAINTAINED SO AS TO PRESENT A HEALTHY, NEAT AND ORDERLY APPEARANCE AT ALL TIMES AND SHALL BE KEPT FREE OF REFUSE AND DEBRIS. MAINTENANCE WILL INCLUDE REPLACEMENT OF ALL DEAD PLANT MATERIAL IF THAT MATERIAL WAS USED TO MEET THE REQUIREMENTS OF THE UDC. ALL SUCH PLANTS SHALL BE REPLACED WITHIN SIX (6) MONTHS OF NOTIFICATION, OR BY THE NEXT PLANTING SEASON, WHICHEVER COMES FIRST. A PROPERTY/HOMEOWNERS ASSOCIATION MAY ASSUME RESPONSIBILITY FOR MAINTENANCE OF COMMON AREAS.
 - THIS LANDSCAPE PLAN HAS BEEN PREPARED AND CERTIFIED BY A LANDSCAPE ARCHITECT TO MEET ALL REQUIREMENTS OF THE CITY OF GEORGETOWN UNIFIED DEVELOPMENT CODE.
- CONTACT INFO:
- ALL PLANT SELECTIONS HAVE BEEN CHOSEN FROM THE CITY OF GEORGETOWN PREFERRED PLANT LIST.
 - NO MORE THAN 25% PLANTINGS HAVE BEEN SELECTED FROM ANY ONE SPECIES.
 - AT LEAST 50% OF THE REQUIRED PLANT MATERIALS ARE LOW WATER USERS AS IDENTIFIED ON THE PREFERRED PLANT LIST.



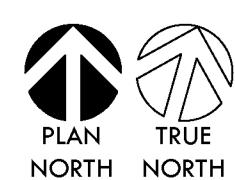
I, RAY HOLLIDAY, HEREBY CERTIFY THAT THIS LANDSCAPE PLAN COMPLIES WITH THE REQUIREMENTS OF CHAPTER 8 OF THE UNIFIED DEVELOPMENT CODE.

RAY HOLLIDAY, AIA, ASLA

11/1/2018

LANDSCAPE ARCHITECT'S NAME

DATE



1 LANDSCAPE PLAN

1" = 20'-0"

LANDSCAPE CALCULATIONS

STREET YARD LANDSCAPING:

AREA OF STREETYARD = 32,138 SF
SIDEWALK AND DRIVE AREA = 15,332 SF
REQ. LANDSCAPED AREA = 6,428 SF
SHADE TREES REQ. = 7
SHRUBS REQ. = 20

REQUIRED PARKING LOT LANDSCAPING:

IN FRONT OF BUILDING: 9 SPOTS * 20 SF = 180 SF
BEHIND BUILDING: 23 SPOTS * 10 SF = 230 SF
PARKING LOT LANDSCAPED AREA REQUIRED = 410 SF

REQUIRED PARKING LOT SHADE TREES:

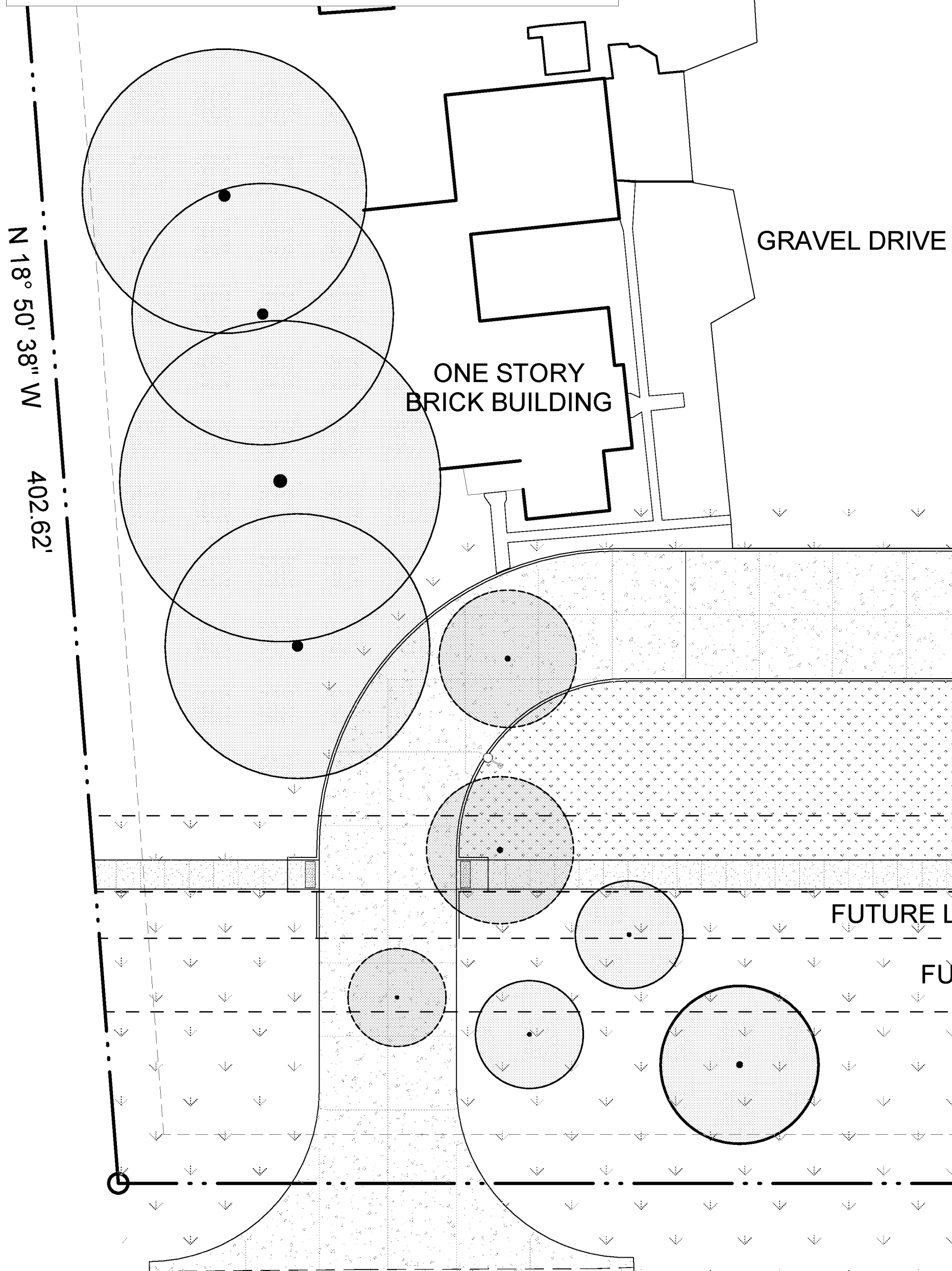
TOTAL PARKING SPOTS PROVIDED = 32
EXCESS PARKING SPOTS PROVIDED = 6
[32 * (6 * 1.5)] / 12 SHADE TREES REQUIRED = 4

REQUIRED BUFFER YARD LANDSCAPING:

LENGTH OF BUFFERYARD = 474 FT
SHADE TREE REQ'D (1 PER 50 FT) = 10
ORNAMENTAL TREE REQ'D (2 PER 50 FT) = 19
EVERGREEN SHRUBS REQ'D (6 PER 50 FT) = 76

GATEWAY OVERLAY DISTRICT:

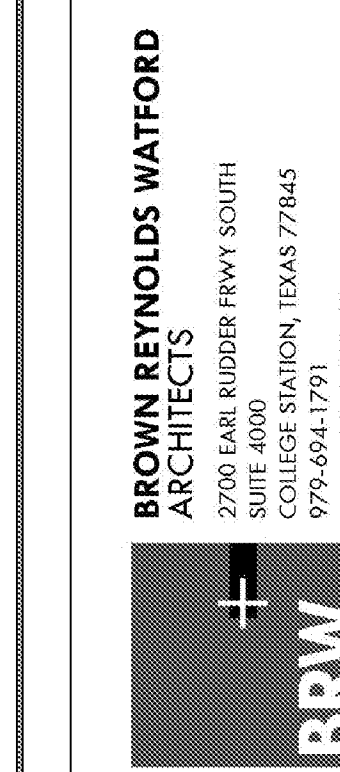
AREA OF GATEWAY BUFFER = 7,200 SF
AREA OF DRIVE AND SIDEWALK = 2,683 SF
LIVE VEGETATION AREA REQ. = 3,614
SHADE TREES REQ. (2 PER 1,000 SF) = 8
SHRUBS REQ. (5 PER 1,000 SF) = 20



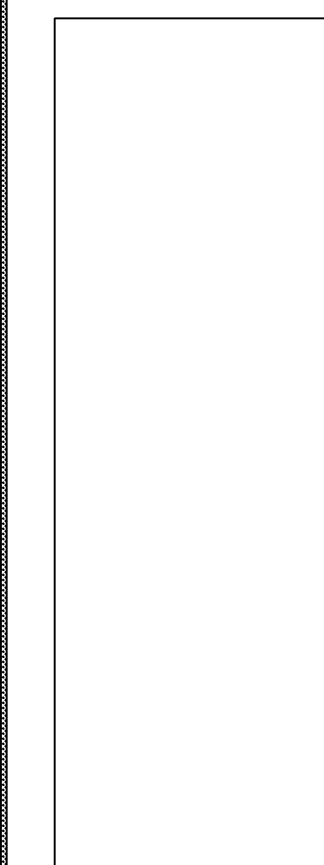
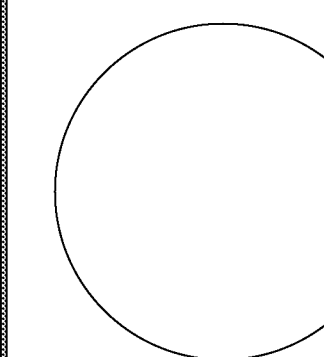
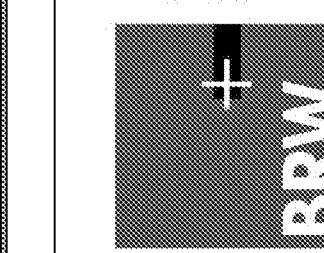
N 71° 05' 32" E 494.50'

KEYNOTES

3280 12 RIVER STONE
3290 16 4" PERFORATED METAL EDGING



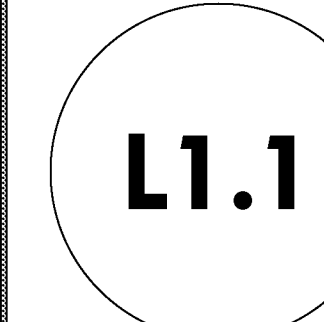
BROWN REYNOLDS WATFORD ARCHITECTS
2700 EARL BUDDER FRYW SOUTH
SUITE 4000
DALLAS, TEXAS 75245
972-594-1791
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DRAWN BY LG, CJ, JT
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BRW PROJECT NUMBER 218044.00

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FIRE STATION No. 7
2711 EAST UNIVERSITY AVENUE
GEORGETOWN, TX 78626

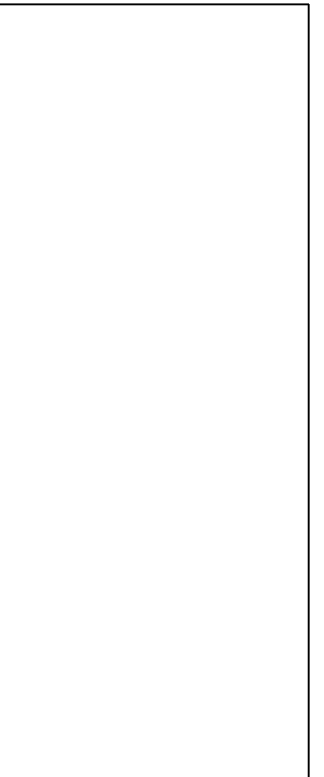
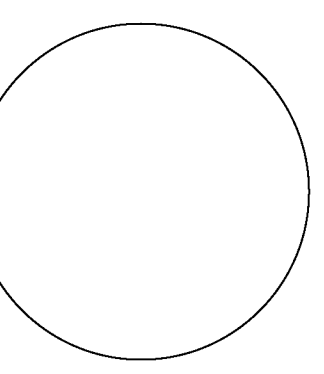
NO.	REVISION	DATE



LANDSCAPE PLAN



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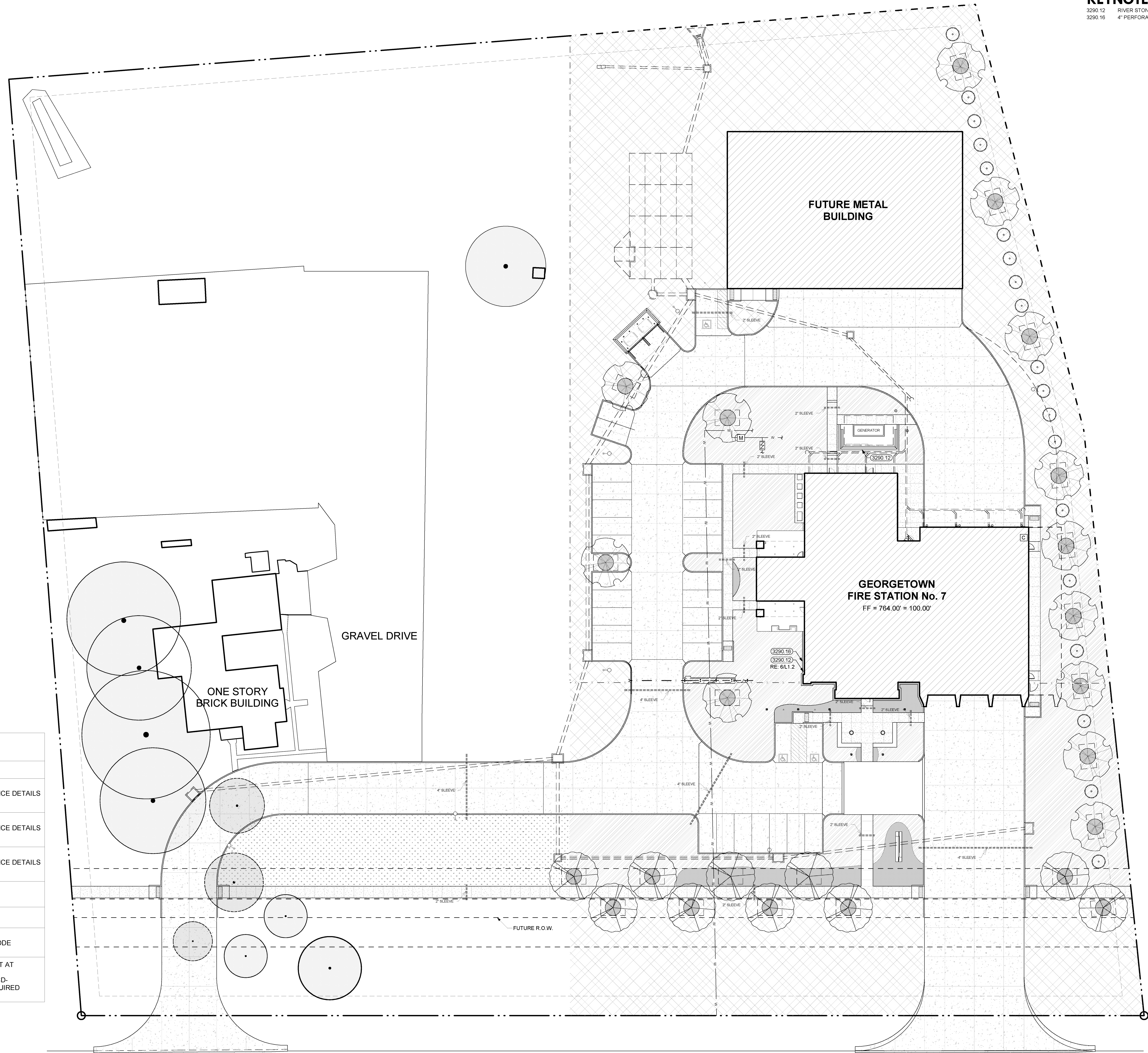


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 GEORGETOWN, TX 78626

NO.	REVISION	DATE

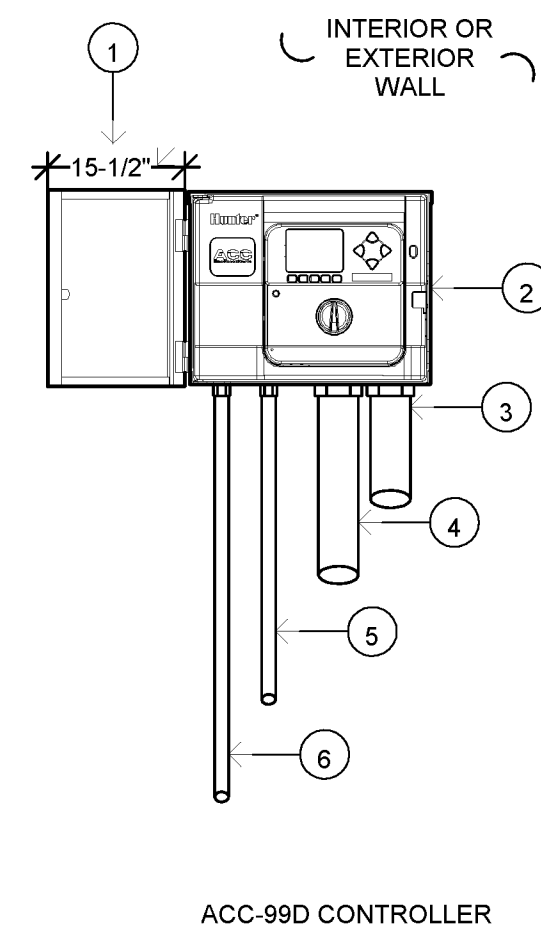
L1.3
 IRRIGATION PLAN



NOTE:
 NON-SPRINKLERED PORTIONS OF SITE WITH NEWLY PLANTED GRASS SHALL BE PROVIDED WITH TEMPORARY IRRIGATION FOR A PERIOD OF 3 GROWING SEASONS

SYMBOL	DESCRIPTION	MANUFACTURE	MODEL
	AREA TO BE IRRIGATED WITH SPRAY HEADS / ROTARY HEADS AS BASE-BID	HUNTER	AS REQUIRED, REFERENCE DETAILS AND SPECIFICATIONS
	ADDITIONAL AREA TO BE IRRIGATED WITH SPRAY HEADS / ROTARY HEADS AS ADD-ALTERNATE	HUNTER	AS REQUIRED, REFERENCE DETAILS AND SPECIFICATIONS
	PLANTING BEDS/TREES TO BE IRRIGATED BY BUBBLER/SHORT RADIUS HEADS	HUNTER	AS REQUIRED, REFERENCE DETAILS AND SPECIFICATIONS
	MAINLINE PIPING	REFER TO SPEC.	CLASS 200
	BACKFLOW PREVENTER & ENCLOSURE	FEBCO	RPZ RE: CIVIL
	WATER METER (RE: CIVIL)	CITY APPROVED	PER LOCAL BUILDING CODE
	CONTROLLER	HUNTER	HUNTER ACC-99D MOUNT AT INTERIOR WALL U.N.O. PROVIDE NECESSARY ICD-XXX DECODERS AS REQUIRED (RE: 14/L1.4)
	HERITAGE / PROTECTED TREE TO REMAIN		
	PROTECTED TREE TO BE REMOVED		

2 IRRIGATION PLAN
 1" = 20'-0"

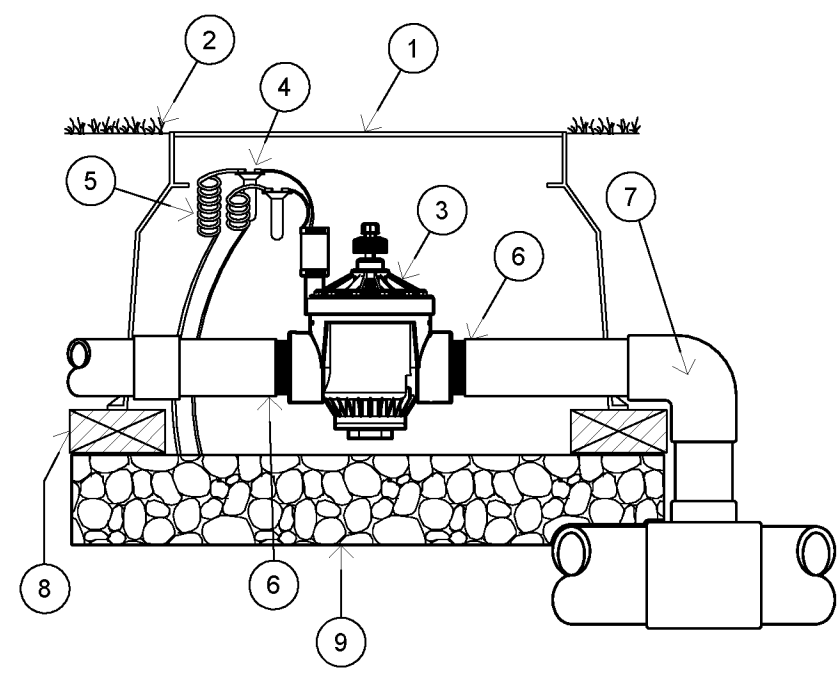


1. MINIMUM CLEARANCE FOR DOOR OPENING
2. MODEL ACC-99D
3. ADDITIONAL WIRE CONDUIT, UP TO 2" SIZE.
4. DECODER WIRE CONDUIT, UP TO 2-1/2" SIZE.
5. SUPPLEMENTAL GROUND WIRE INSTALL PER ASIC GUIDELINES
6. 3/4" POWER SUPPLY CONDUIT J BOX INSIDE CONTROLLER CONNECT PER LOCAL CODE

VERIFY WITH OWNER/ARCHITECT MOUNTING HEIGHT, REFERENCE PLAN FOR LOCATION

4 IRRIGATION CONTROLLER

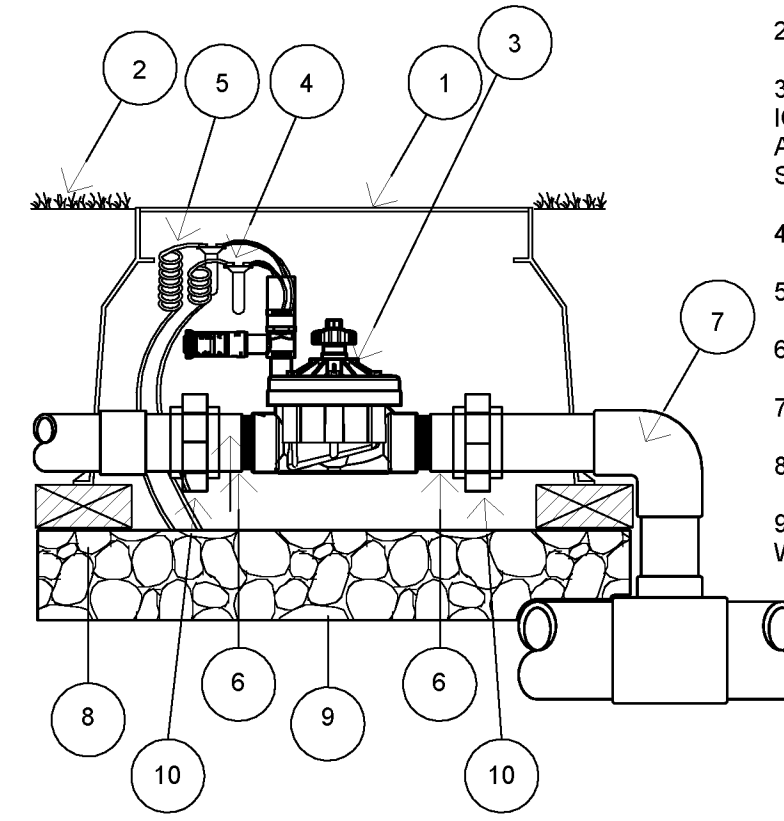
1" = 1'-0"



1. STANDARD VALVE BOX
2. FINISH GRADE
3. REMOTE CONTROL VALVE MODEL PGV-XXXG (SIZE AS REQUIRED)
4. WATERPROOF CONNECTORS
5. 18-24" COILED WIRE
6. SCH 80 T.O.E. NIPPLE
7. MAIN LINE PIPE & FITTINGS
8. BRICK SUPPORTS (4)
9. 3" MINIMUM DEPTH 3/4" WASHED GRAVEL

3 IRRIGATION VALVE

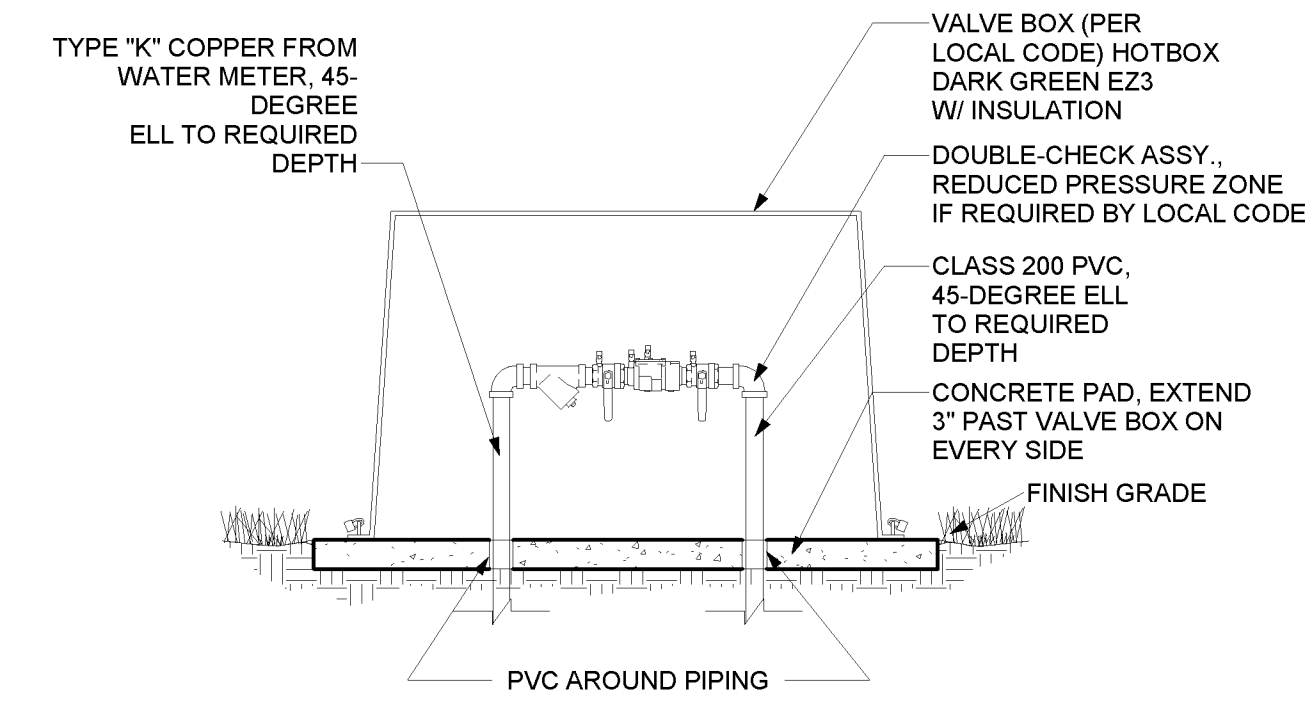
1" = 1'-0"



1. STANDARD VALVE BOX
2. FINISH GRADE
3. REMOTE CONTROL VALVE ICV-XXXG (SIZE AS REQUIRED) ACCU-SYNCH-ADJ WITH FILTER SENTRY
4. WATERPROOF CONNECTORS
5. 18-24" COILED WIRE
6. SCH 80 T.O.E. NIPPLE
7. MAIN LINE PIPE & FITTINGS
8. BRICK SUPPORTS (4)
9. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
10. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL

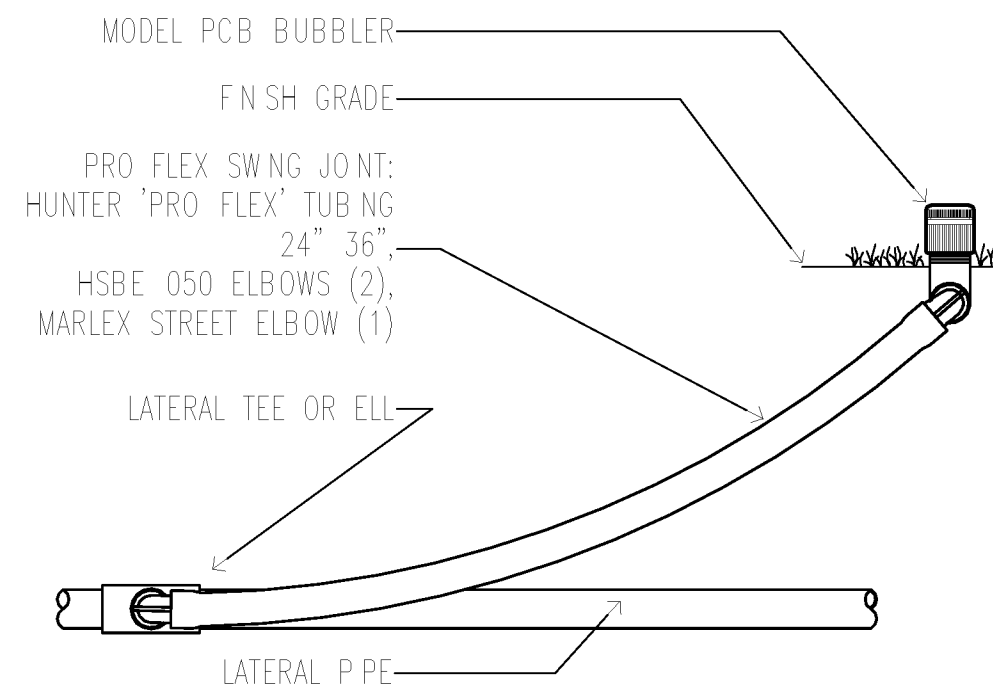
2 IRRIGATION CONTROL VALVE

1 1/2" = 1'-0"



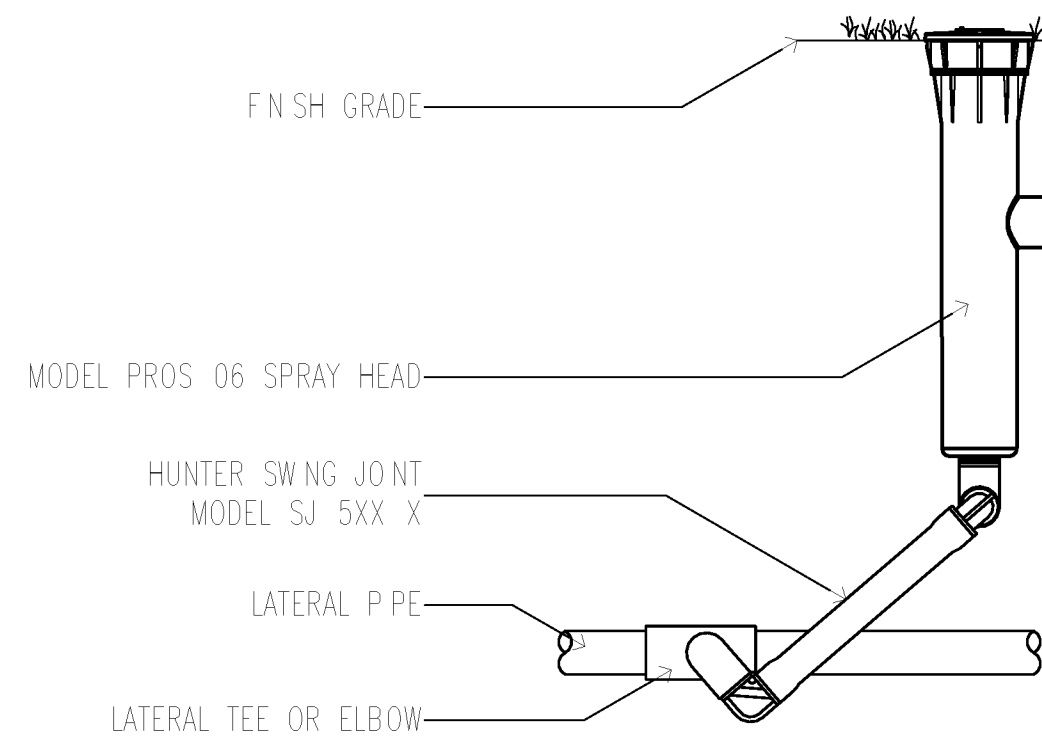
1 IRRIGATION BACKFLOW PREVENTER

12" = 1'-0"



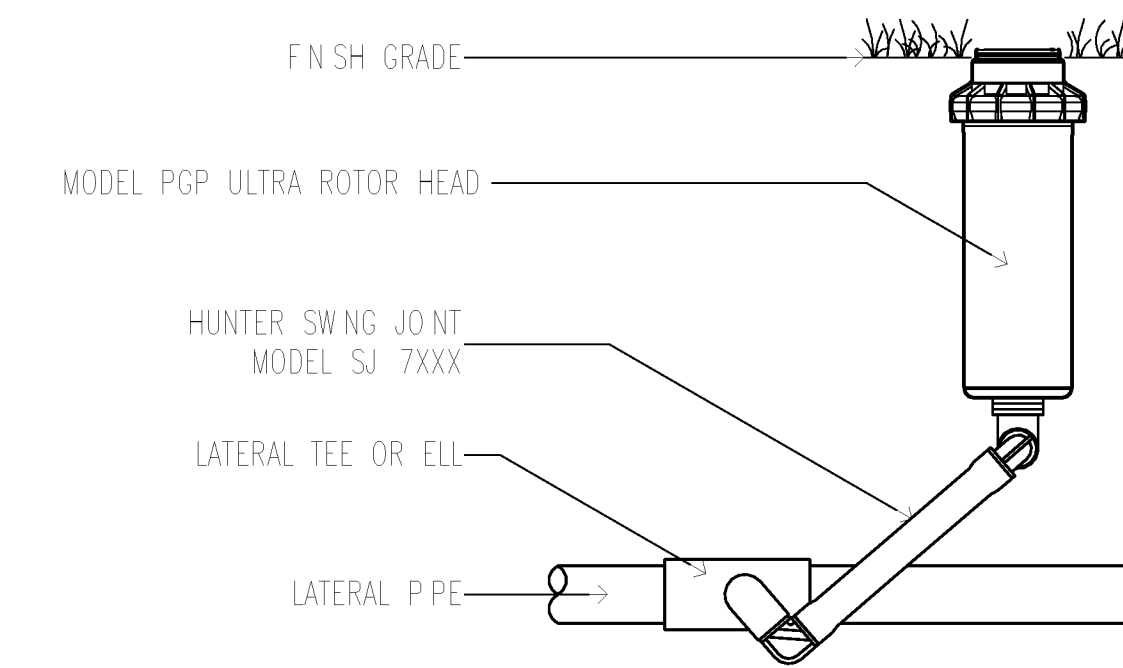
7 EMITTER DETAIL

3" = 1'-0"



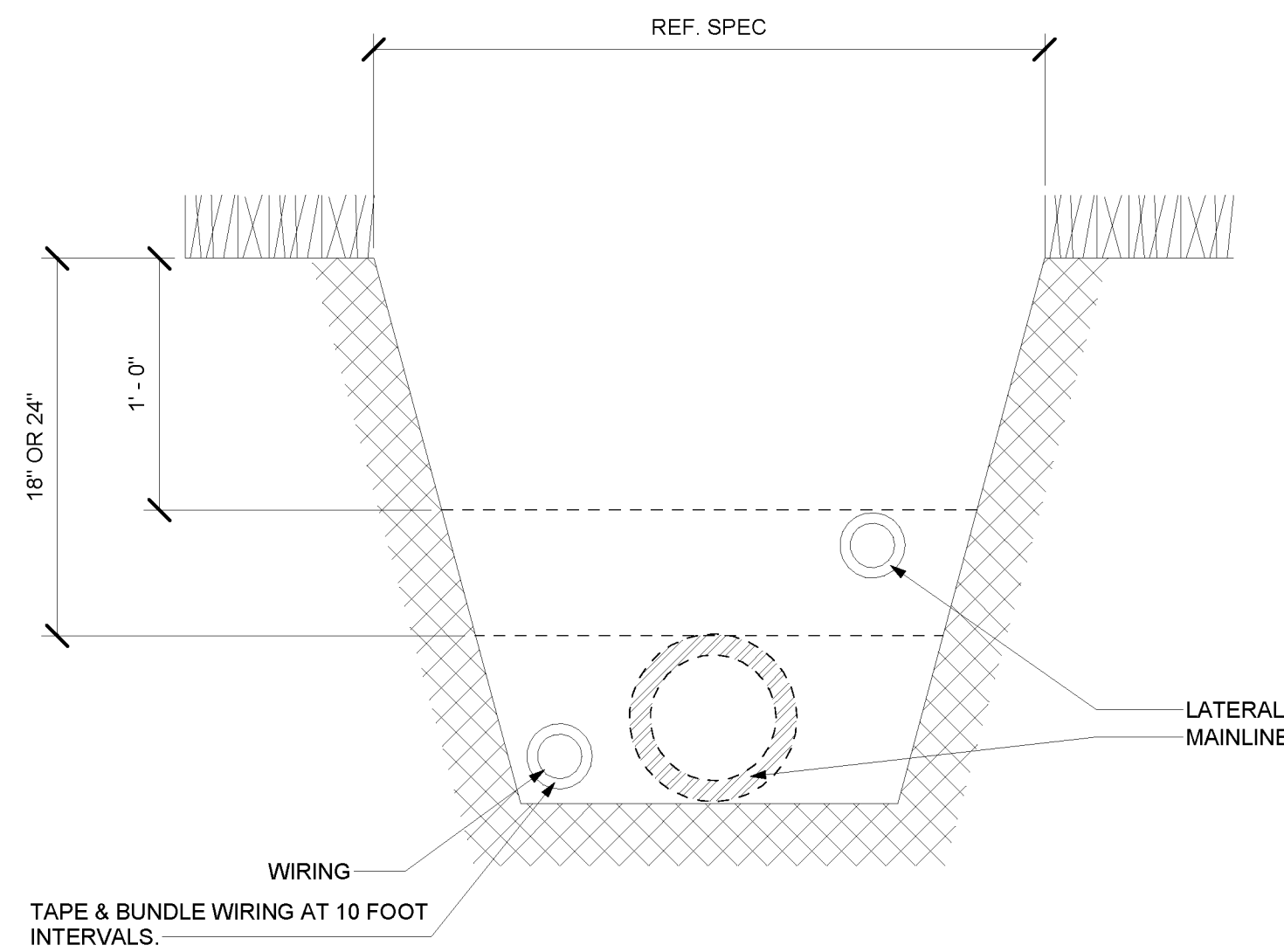
6 SPRAY HEAD

3" = 1'-0"



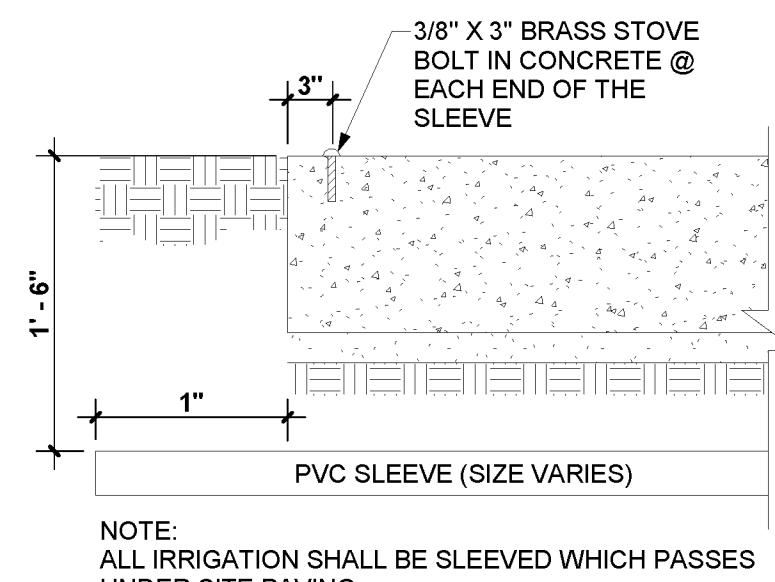
5 ROTOR HEAD

3" = 1'-0"



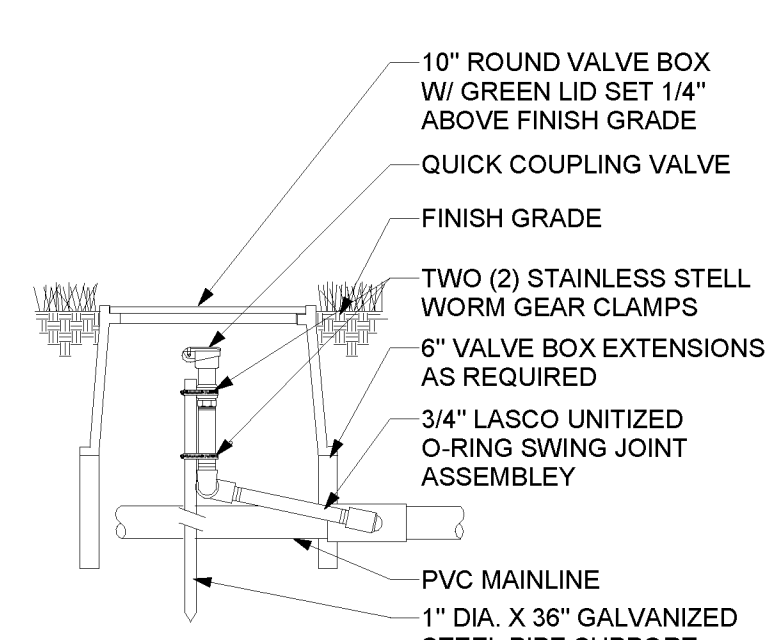
12 IRRIGATION DETAIL 1

1 1/2" = 1'-0"



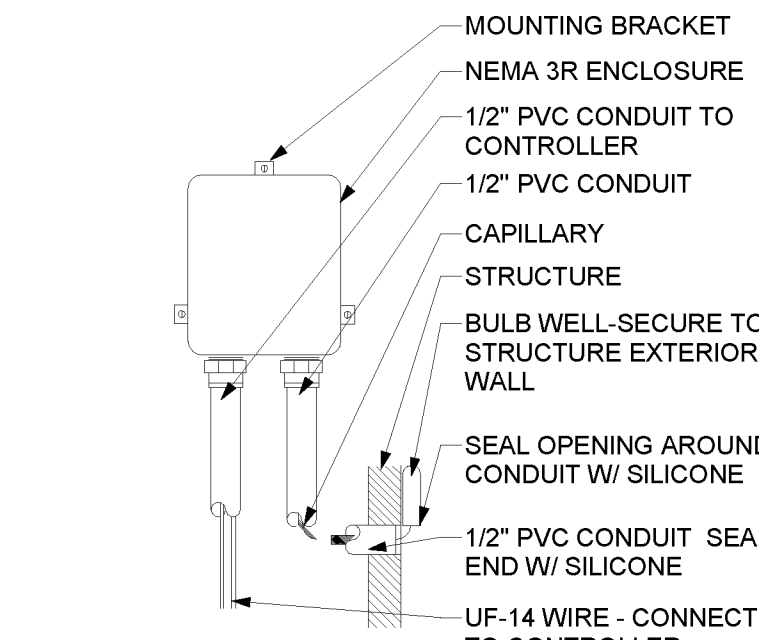
11 PAVING DETAIL

12" = 1'-0"



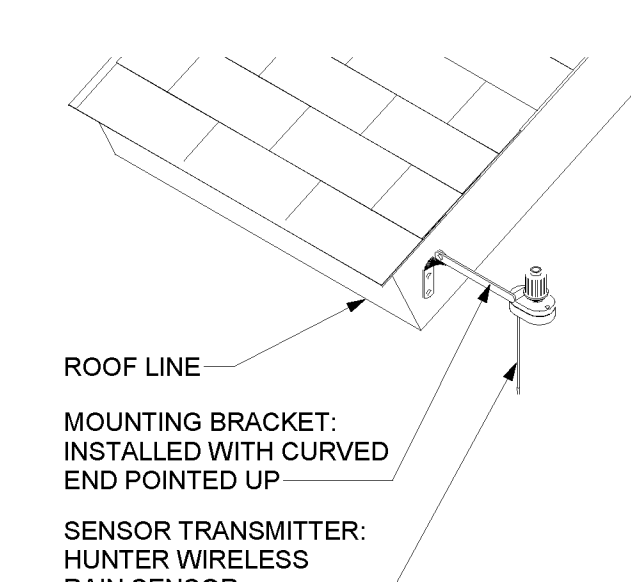
10 QUICK COUPLING VALVE

12" = 1'-0"



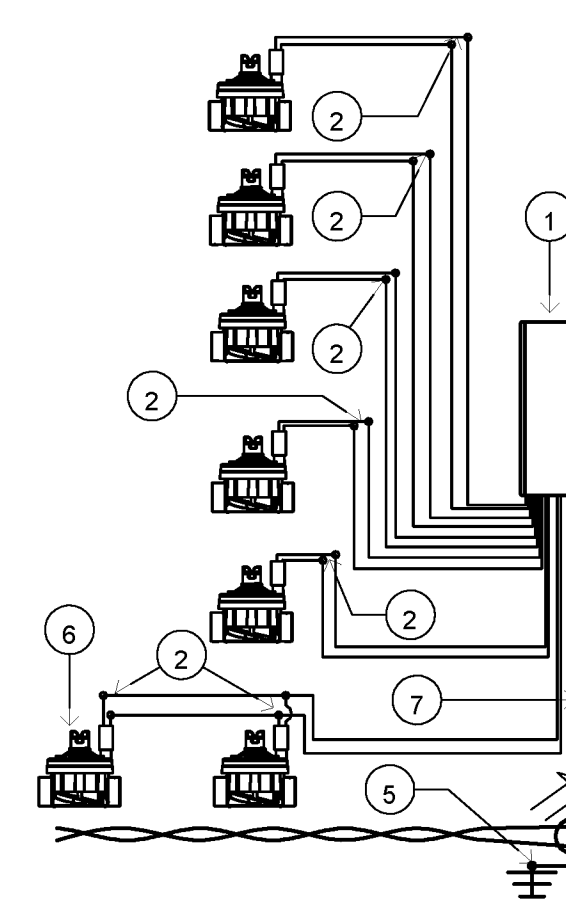
9 TEMPERATURE SENSOR

12" = 1'-0"



8 RAIN SENSOR

12" = 1'-0"

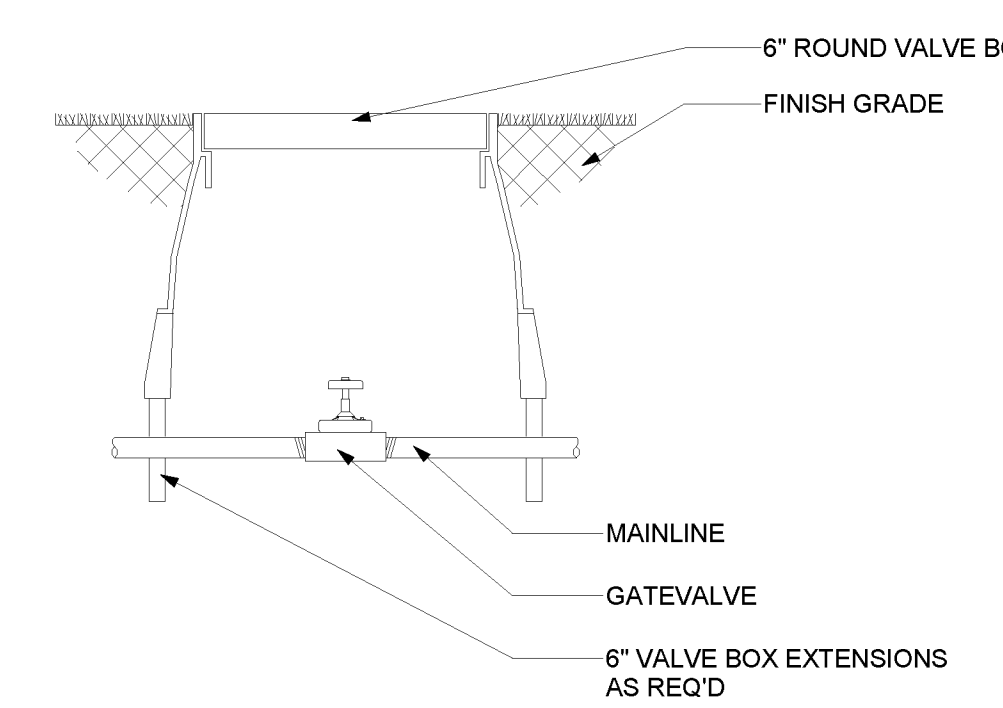


14 DECODER

3" = 1'-0"

1. ICD-600 DECODER (PROVIDE ALTERNATE DECODER AS REQUIRED)
2. DBY (2 PER VALVE)
3. DBR-6 (1 PER CONNECTION)
4. 2 WIRE TWISTED ID WIRE
5. TO EARTH GROUND INSTALLED PER ASIC GUIDELINES, 1 PER 12 DECODERS OR EVERY 1000ft./330M.
6. ADDITIONAL VALVE WIRED IN PARALLEL (MAX OF 2 PER OUTPUT)
7. GROUND WIRE

NOTE: All ICD-600 DECODERS SHALL HAVE THE FOLLOWING ADDRESS AND CORRESPONDING COLOR
 ADDRESS 1 = Black | ADDRESS 4 = White
 ADDRESS 2 = Yellow | ADDRESS 5 = Orange
 ADDRESS 3 = Green | ADDRESS 6 = Purple

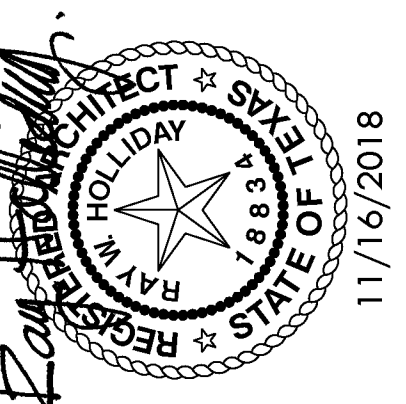


13 IRRIGATION VALVE

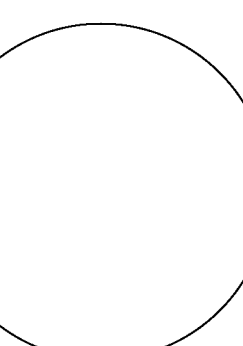
3" = 1'-0"

NOTES:

1. ALL 24 VOL LEAD AND COMMON VALVE WIRING SHALL BE A MINIMUM OF UF-14 GA. SINGLE CONDUCTOR. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR PROPER WIRE SIZE. WIRE SPLICES SHALL BE PERMANENT AND WATERPROOF.
2. COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LANDSCAPE CONTRACTOR TO ENSURE ALL PLANT MATERIAL WILL BE WATERED IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS.
3. LATERAL PIPING SHALL HAVE A MINIMUM OF 12 INCHES OF COVER. MAINLINE AND PIPING UNDER PAVING SHALL HAVE A MINIMUM OF 18 INCHES COVER.
4. PIPING AND VALVES IN PAVING SHOWN FOR CLARITY. INSTALL IN ADJACENT PLANTING BED OF LAWN AREA.
5. CONNECT LAWN AND HIGH-POP SPRAY HEADS TO LATERAL PIPING WITH 1/2" FLEXIBLE PVC AND 1/2" SCH. 40 PVC FITTINGS AS REQUIRED, PER DETAIL SHOWN. USE WELD-ON #795 SOLVENT AND #P070 PRIMER ON THESE CONNECTIONS.
6. CONNECT ROTARY HEADS TO LATERAL PIPE WITH LASCO UNITIZED, O-RING SWING JOINTS PER DETAIL SHOWN.
7. INSTALL QUICK COUPLING VALVES ON 10" VALVE BOX PER DETAIL SHOWN. CONNECT QUICK COUPLING VALVES TO MAINLINE PIPE WITH LASCO UNITIZED, O-RING SWING JOINTS PER DETAIL SHOWN. SUPPLY OWNER WITH THREE (3) COUPLER KEYS WITH SWIVEL HOSE ELLS EACH.
8. INSTALL REMOTE CONTROL VALVES IN 10" VALVE BOXES PER DETAIL SHOWN.
9. PERFORM ELECTRICAL WORK IN ACCORDANCE WITH LOCAL BUILDING CODE. POWER 9120V SHALL BE LOCATED IN A JUNCTION BOX WITHIN 5 FEET OF CONTROLLER LOCATION BY OTHER TRADES.
10. SLEEVES SHALL BE CLASS 200 PVC. LAG BOLTS PLACED IN SIDEWALK AT ENDS OF SLEEVES AND INSTALLED BY OTHER TRADES. PROVIDE ADDITIONAL SLEEVES NOT SHOWN ON PLANS FOR A COMPLETE AND FUNCTIONAL IRRIGATION SYSTEM.
11. ROUTE COMMON WIRE FROM CONTROLLER TO REMOTE SENSORS IN SERIES PRIOR TO CONNECTIONS TO REMOTE CONTROL VALVES.
12. INSTALL ADEQUATE NUMBER OF SPRAY HEADS FOR EACH SHRUB / TREE IN LANDSCAPE BEDS.
13. TEN DAYS PRIOR TO START OF CONSTRUCTION, VERIFY STATIC PRESSURE. IF STATIC PRESSURE IS LESS THAN 110 PSI, DO NOT START WORK UNTIL NOTIFIED TO PROCEED BY OWNER. DESIGN PRESSURE IS 65.0 PSI.
14. INSTALL PRESSURE REDUCING VALVE IN A 12"x17" VALVE BOX WITHIN FIVE (5) FEET OF ANY BACKFLOW PREVENTOR. DISCHARGE PRESSURE REDUCING VALVE TO BE SET AT APPROX. 80 PSI.
15. ALL WORK INCLUDED IN THE INSTALLATION OF THE IRRIGATION SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
16. THE INSTALLATION OF THE IRRIGATION SYSTEM WILL BE MADE BY AN INDIVIDUAL OR FIRM DULY LICENSED AS AN IRRIGATOR BY THE STATE OF TEXAS.
17. DOUBLE-CHECK BACK FLOW PREVENTOR SHALL BE INSTALLED AND TESTED UPON INSTALLATION BY A CERTIFIED BACKFLOW TESTER.
18. MAXIMUM LENGTH OF DRIP LINE SHALL BE 275 FEET.
19. THE MAXIMUM SPACING BETWEEN EMISSION DEVICES MUST NOT EXCEED THE MANUFACTURER'S PUBLISHED RADIUS OR SPACING OF THE DEVICE(S).
20. THE IRRIGATION SYSTEMS SHALL NOT UTILIZE ABOVE-GROUND SPRAY EMISSION DEVICES IN LANDSCAPES THAT ARE LESS THAN 48 INCHES NOT INCLUDING THE IMPERVIOUS SURFACES IN EITHER LENGTH OR WIDTH AND WHICH CONTAIN IMPERVIOUS PEDESTRIAN OR VEHICULAR TRAFFIC SURFACES ALONG TWO OR MORE PERIMETERS.
21. SPRINKLER HEADS MUST DIRECT FLOW AWAY FROM ANY ADJACENT SURFACE AND SHALL NOT BE INSTALLED CLOSER THAN FOUR INCHES FROM A HARDSCAPE, SUCH AS, BUT NOT LIMITED TO, A BUILDING FOUNDATION, FENCE, CONCRETE, ASPHALT, PAVERS, OR STONES SET IN MORTAR.
22. IRRIGATION SYSTEMS SHALL NOT SPRAY WATER OVER SURFACES MADE OF CONCRETE, ASPHALT, BRICK, WOOD, STONES SET IN MORTAR, OR ANY OTHER IMPERVIOUS MATERIAL, SUCH AS, BUT NOT LIMITED TO, WALLS, FENCES, SIDEWALKS, STREETS, ETC.
23. COVERAGE OF PIPING MUST BE INSTALLED TO PROVIDE MINIMUM DEPTH COVERAGE OF SIX INCHES OF SELECT BACKFILL, BETWEEN THE TOP OF PIPE AND THE NATURAL GRADE OF THE TOP SOIL.
24. UNDERGROUND ELECTRICAL WIRING THAT CONNECTS AN AUTOMATIC CONTROLLER TO ANY ELECTRICAL COMPONENT OF THE IRRIGATION SYSTEM MUST BE BURIED WITH A MINIMUM OF SIX INCHES OF SELECT BACKFILL.
25. ALL IRRIGATION LINES RUNNING UNDER SITE PAVING SHALL BE SLEEVED.



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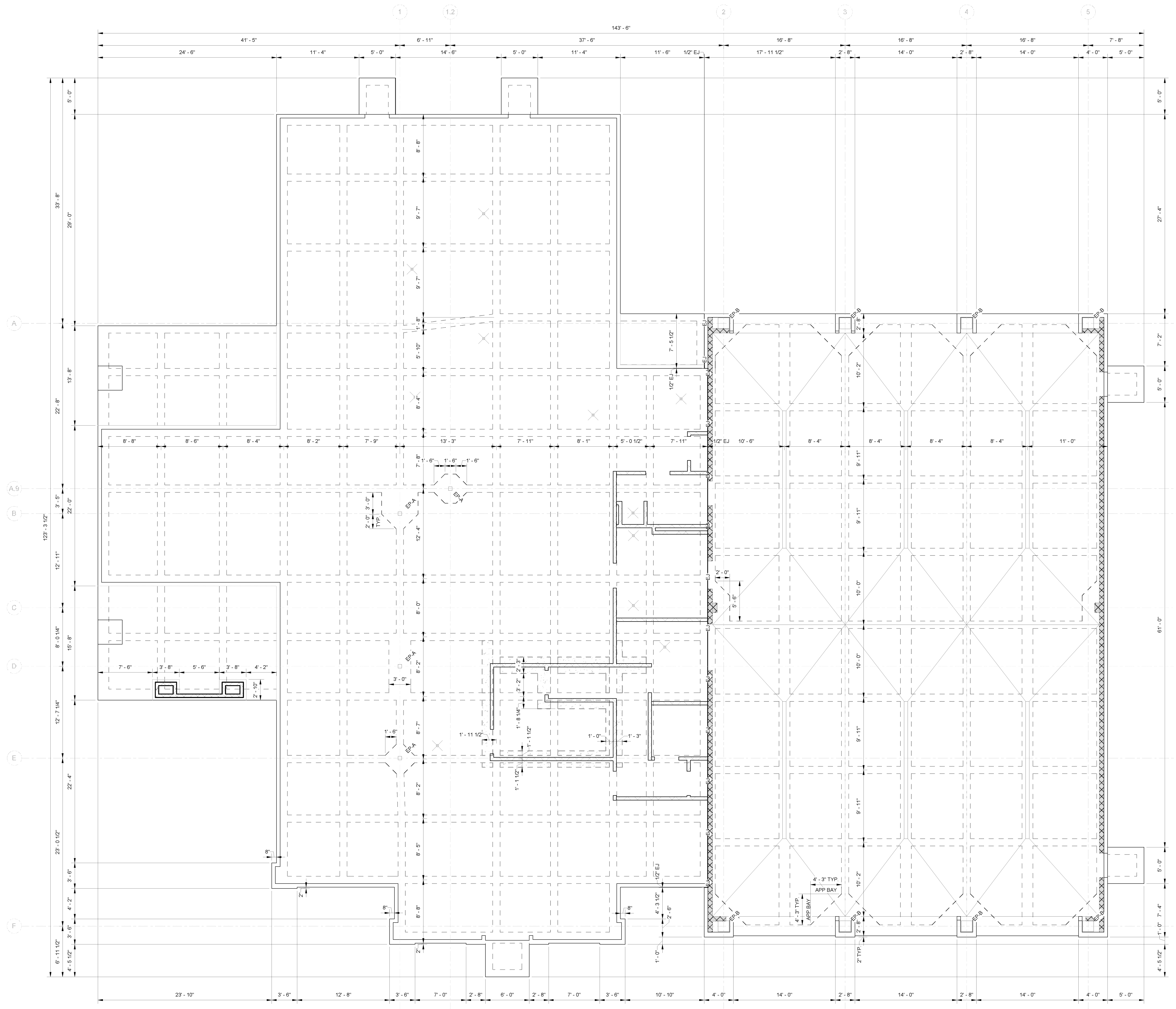


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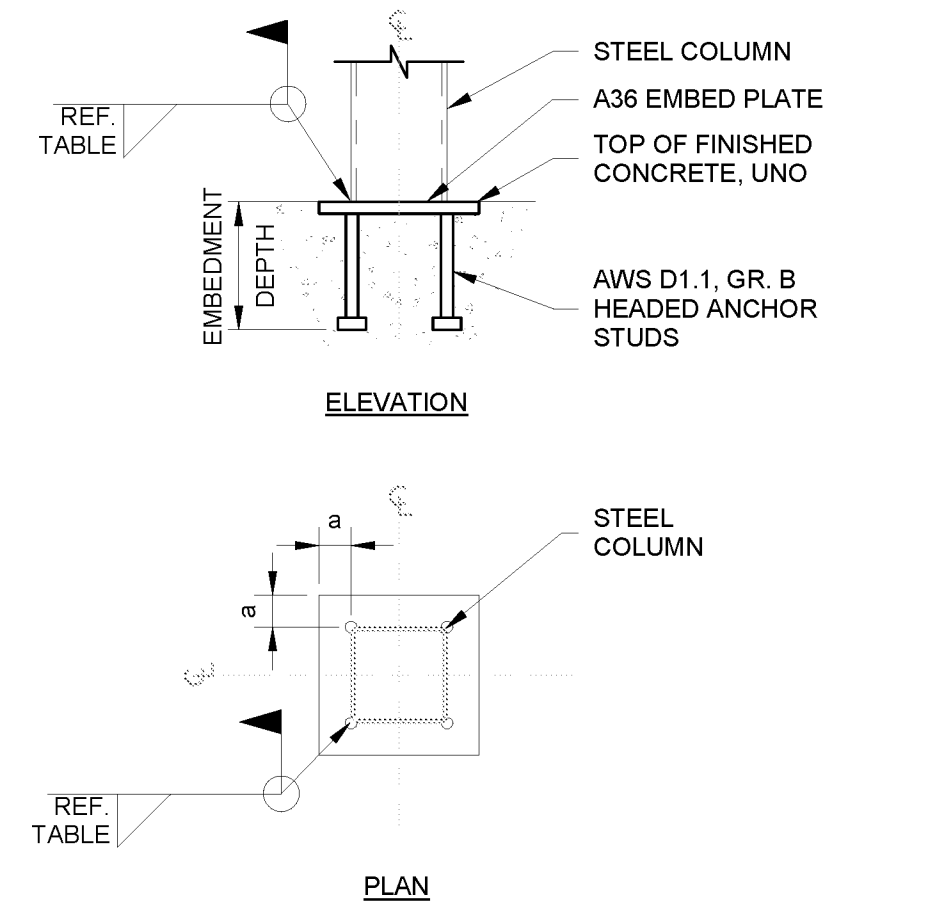
CITY OF GEORGETOWN
FIRE STATION No. 7
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 GEORGETOWN, TX 78626

NO.	REVISION	DATE





SHEET NOTES:
 1. REFERENCE SO 0 NOTES FOR ADDITIONAL SPECIFICATIONS.
 2. CONTRACTOR SHALL VERIFY LOCATIONS AND TYPES OF PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING CONSTRUCTION.
 3. VERIFY ALL DIMENSIONS WITH ARCHITECT AND OWNER PRIOR TO COMMENCING CONSTRUCTION.

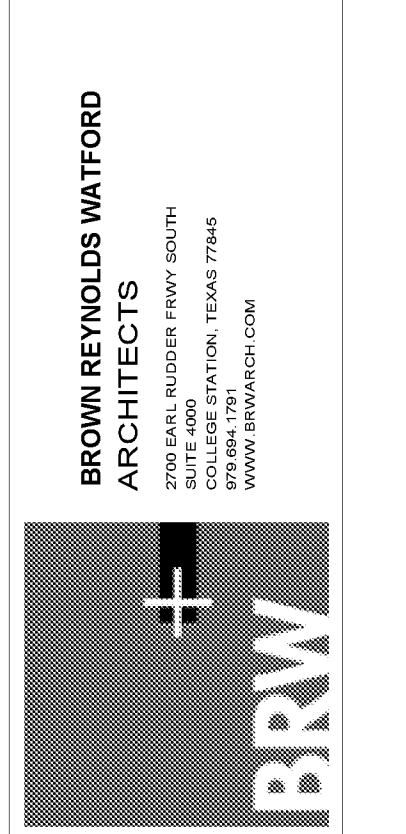


NAME	PLATE SIZE	STUDS	DIM "a"	WELD THICKNESS	EMBEDMENT DEPTH
EP-A	6X6X3/4"	(4) 3/4"Ø	1 1/2"	1/4"	6"
EP-B	18X18X1 1/2"	(4) 1"Ø	2"	5/16"	18"

NOTE: COLUMN SHALL BE CENTERED ON EMBED PLATE, UNO, REF. PLAN.

2. EMBED PLATE DETAIL
N.T.S.

1. DIMENSION CONTROL PLAN
3/16" = 1'-0"



CORPORATE OFFICE
 2501 ASHFORD DRIVE
 COLLEGE STATION, TX 77840
 CALL 1-877-GESSNER (437-7637)
 WWW.GESSNERENGINEERING.COM
FIRM REGISTRATION NUMBERS:
 TX-EP-7451, TX-EP-1015910



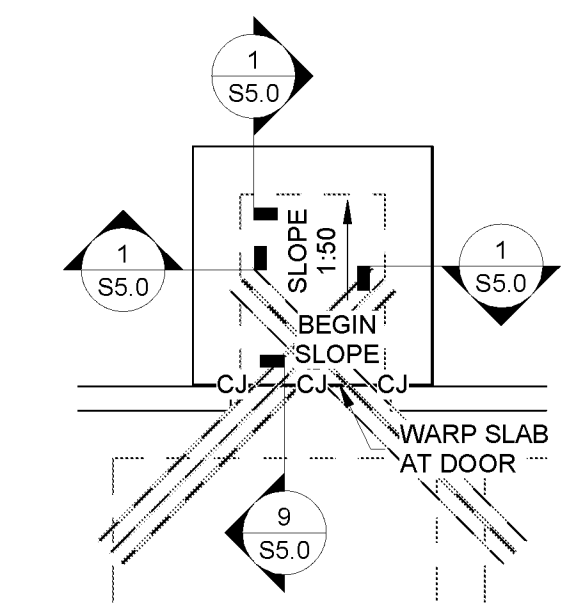
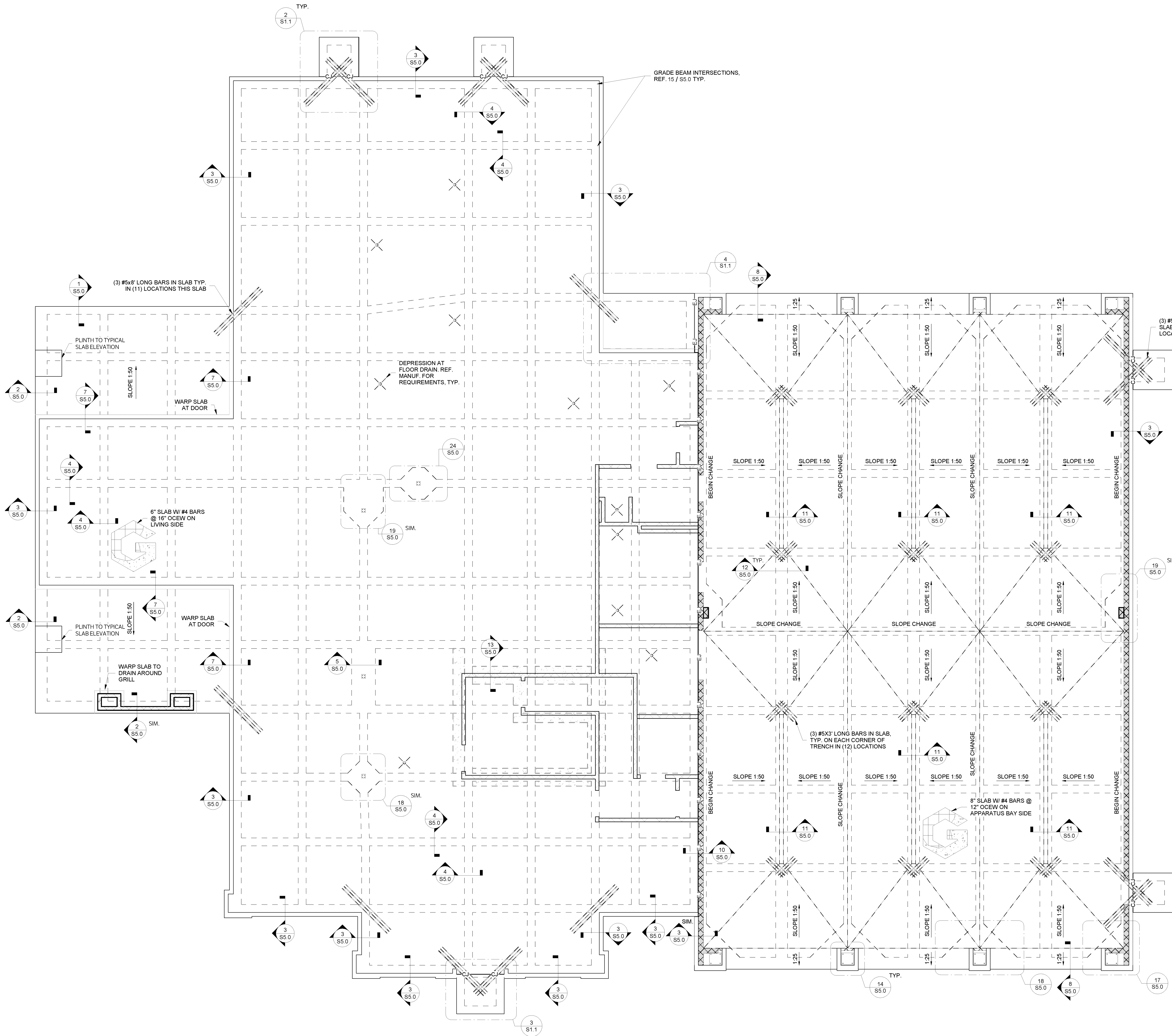
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 PROJECT NO. 18-0364

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 GEORGETOWN, TX 78626

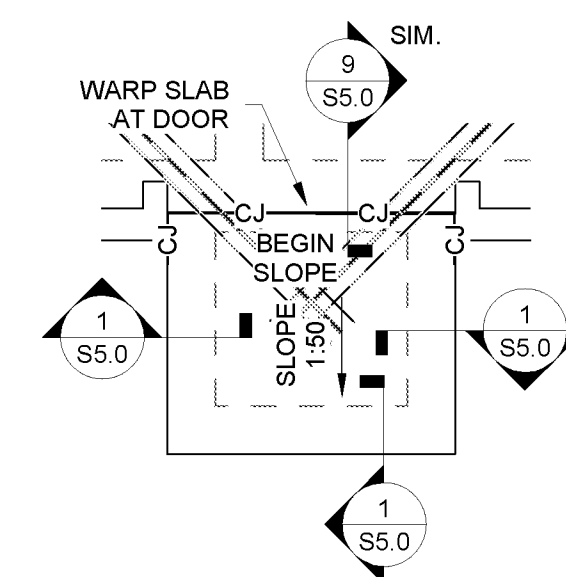
NO.	DESCRIPTION	DATE

SHEET NOTES:
 1. REFERENCE S&S.0 NOTES FOR ADDITIONAL SPECIFICATIONS.
 2. CONTRACTOR SHALL VERIFY LOCATIONS AND TYPES OF PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING CONSTRUCTION.
 3. VERIFY ALL DIMENSIONS WITH ARCHITECT AND OWNER PRIOR TO COMMENCING CONSTRUCTION.

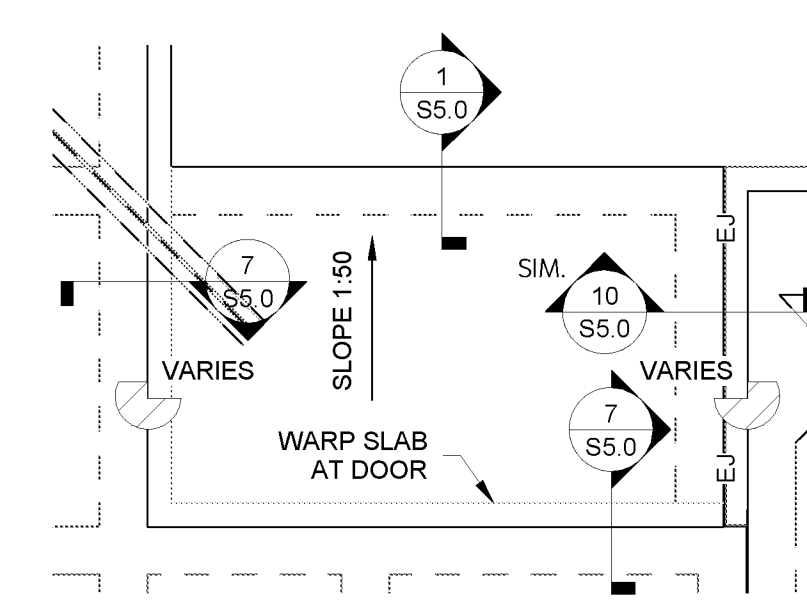
LEGEND:
 —CJ— CONTROL JOINT, REF. 6 / S&S.0
 —EJ— EXPANSION JOINT, REF. DETAILS



2 FOUNDATION PLAN - TYP. DOOR STOOP
 1/4" = 1'-0"

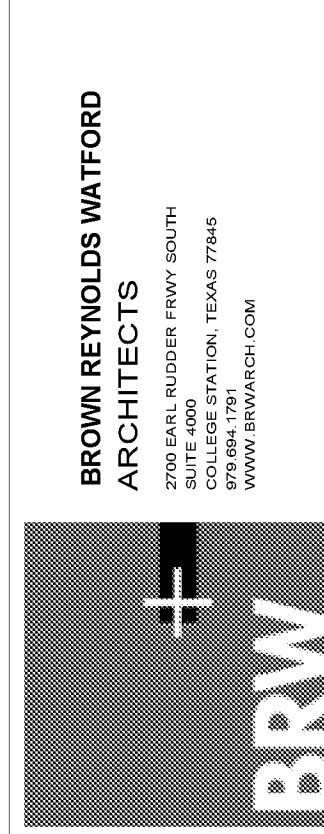


3 FOUNDATION PLAN - FRONT STOOP
 1/4" = 1'-0"



4 FOUNDATION PLAN - UTILITY PORCH
 1/4" = 1'-0"

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



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 FIRM REGISTRATION NUMBERS:
 18PE-7451, 18PE-CP-1015910

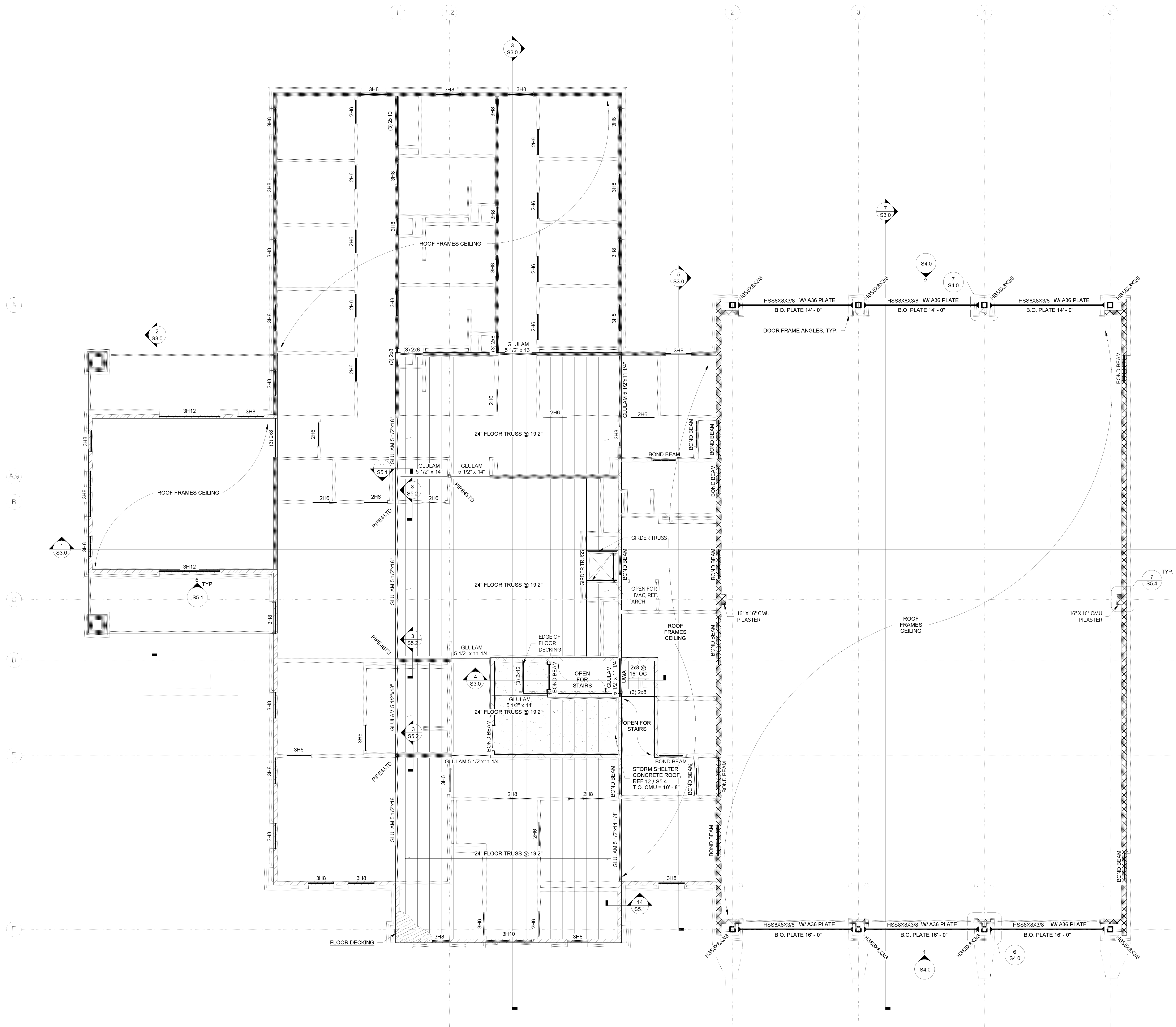


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NO.	DESCRIPTION	DATE

S1.1



- GENERAL FRAMING NOTES**
- REFERENCE S3.0 NOTES FOR ADDITIONAL SPECIFICATIONS.
 - ALL GLULAM BEAMS SHALL BE 30F-2.1E SOUTHERN YELLOW PINE, UNO.
 - ALL LUMBER SHALL BE SOUTHERN YELLOW PINE, #2 UNO.
 - ALL WOOD HEADERS SHALL BE MULTI 2X TO MATCH WALL THICKNESS, OR FURRED OUT TO MATCH THE WALL THICKNESS.
 - ALL FLOOR AND ROOF TRUSSES SHALL BEAR AT ENDS ONLY, UNLESS AN INTERIOR BEARING WALL IS SPECIFICALLY NOTED ON PLAN.
 - ALL STUDS SHALL BE CONTINUOUS BETWEEN HORIZONTAL SUPPORTS WHICH MAY BE BUT ARE NOT LIMITED TO: FLOOR DIAPHRAGM ASSEMBLIES, ROOF DIAPHRAGM ASSEMBLIES, OR TOP PLATES BRACED TO DIAPHRAGM ASSEMBLIES.
 - ALL INTERIOR PARTITION WALLS SHALL BE A MINIMUM 1/2" SHORT OF THE ROOF FRAMING AND BRACED TO THE ROOF STRUCTURE PER 8 / S5.1, WHERE WALLS STOP SHORTER BELOW THE BOTTOM CHORD OF TRUSSES, BRACE PARTITION WALLS TO TRUSSES W/ 2X FRAMING AS REQUIRED.
 - ALL CMU WALLS SHALL BE REINFORCED AS NOTED ON THE NOTES PAGE, UNO, AND SHALL HAVE A CONTINUOUS BOND BEAM IN ACCORDANCE WITH 11 / S5.4.
 - CESSNER ENGINEERING SHALL BE CONTACTED FOR REVIEW AND/OR REDESIGN WHEN CHANGES IN MEMBER SIZES AND/OR LOCATIONS ARE DESIRED.
 - ALL STONE LINTELS LESS THAN 10' - 0" IN LENGTH SHALL BE A MINIMUM 16x4x3/8. FOR LENGTHS GREATER THAN 10' - 0", CONTACT GESSNER ENGINEERING FOR ADDITIONAL INFORMATION.
 - WHERE UPLIFT CONNECTORS ARE ATTACHED FROM ROOF TRUSSES OR RAFTERS TO TOP PLATES, STUDS SHALL BE ATTACHED TO TOP PLATES AND SILL PLATES WITH UPLIFT CONNECTORS SPECIFIED IN THE FRAMING DETAILS.
 - SILL PLATES FOR EXTERIOR WALLS, INTERIOR BEARING WALLS, AND SHEAR WALLS TO BE ANCHORED WITH 5/8" ANCHOR BOLTS WITH 3"x3"x1/4" PLATE WASHERS, REF. SILL PLATE ANCHORAGE DETAIL.

LEGEND

- 2x6 STUDS @ 16" OC
- (2) 2x6 STUDS @ 16" OC
- PARTITION WALL, REF. ARCH
- 8" CMU WALL, REF. S5.4
- 6" CMU WALL, REF. S5.4
- 6" CMU PARTITION WALL
- ROOF SUPPORT WALL

PANEL TABLE

USE	WALL SHEATHING	FLOOR DECKING	ROOF DECKING
PANEL GRADE	APA RATED SHEATHING EXPOSURE 1	APA RATED STURD-I-FLOOR EXPOSURE 1	APA RATED SHEATHING EXPOSURE 1
MIN. THICKNESS	1/2"	1 1/8"	3/4"
TYP. NAILING	8d @ 12" OC	10d @ 12" OC	8d @ 12" OC
EDGE NAILING	8d @ 6" OC	10d @ 6" OC	8d @ 6" OC

UPLIFT CONNECTION TABLE

LOCATION	RAFTER/ROOF TRUSS TO TOP PLATE	TOP PLATE TO STUD	FLOOR TO FLOOR	STUD TO SILL PLATE
AT RAFTER	48" OC	48" OC	48" OC	48" OC
AT ROOF TRUSS	48" OC	48" OC	48" OC	48" OC
AT ROOF TRUSS (APP BAY)	16" OC	-	-	-

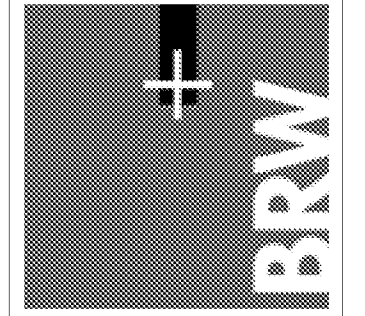
- UPLIFT CONNECTION NOTES:**
- ALL GLUPS, CONNECTORS, AND HANGERS ARE TO BE MANUFACTURED BY SIMPSON STRONGTIE, OR APPROVED EQUAL UNO.
 - AT OPENINGS IN EXTERIOR WALLS & LOAD BEARING INTERIOR WALL, REF. 6 / S5.1 FOR HEADER CONNECTIONS.

HEADER SCHEDULE

MEMBER CALLOUT	MEMBER DESCRIPTION
2H6	(2) 2x6
2H8	(2) 2x8
2H10	(2) 2x10
2H12	(2) 2x12
3H6	(3) 2x6
3H8	(3) 2x8
3H10	(3) 2x10
3H12	(3) 2x12

1 1ST FLOOR CEILING FRAMING PLAN
3/16" = 1'-0"

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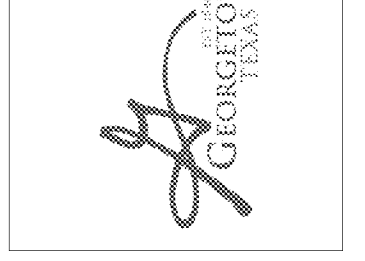


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18PE-7451, 18PL-37-1035910



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DATE 11.16.18
DRAWN BY MLV
CHECKED BY NAG
PROJECT NO. 18-0364

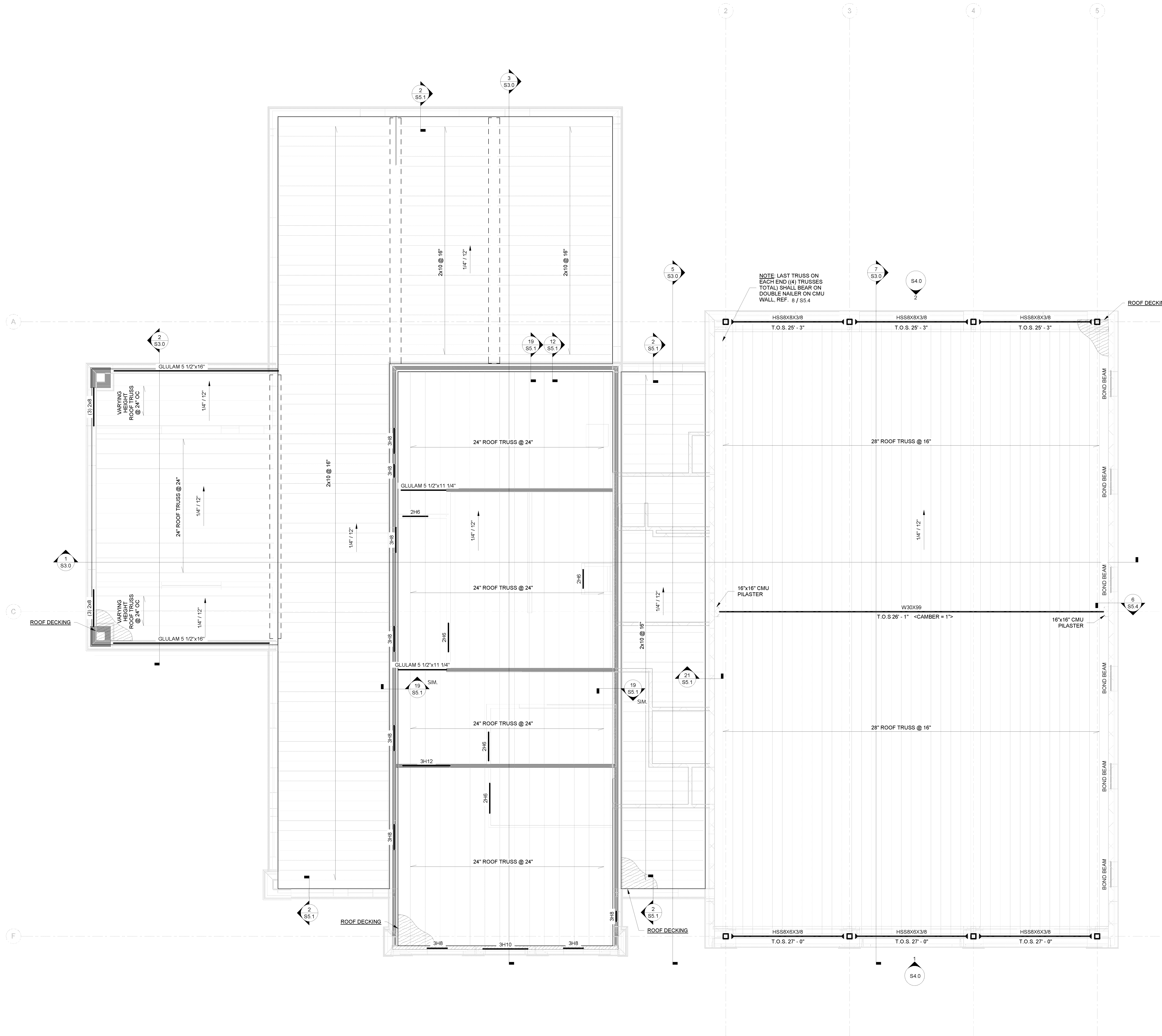
CITY OF GEORGETOWN
FIRE STATION NO. 7
2711 EAST UNIVERSITY AVENUE
GEORGETOWN, TX 78626



NO.	DESCRIPTION	DATE

S1.2

1ST FLOOR CLG FRAMING PLAN



- GENERAL FRAMING NOTES:**
- REFERENCE SS.0 NOTES FOR ADDITIONAL SPECIFICATIONS.
 - ALL GLULAM BEAMS SHALL BE 30F-2.1E SOUTHERN YELLOW PINE, UNO.
 - ALL LUMBER SHALL BE SOUTHERN YELLOW PINE, #2 UNO.
 - ALL WOOD HEADERS SHALL BE MULTI 2X TO MATCH WALL THICKNESS, OR FURRED OUT TO MATCH THE WALL THICKNESS.
 - ALL FLOOR AND ROOF TRUSSES SHALL BEAR AT ENDS ONLY, UNLESS AN INTERIOR BEARING WALL IS SPECIFICALLY NOTED ON PLAN.
 - ALL STUDS SHALL BE CONTINUOUS BETWEEN HORIZONTAL SUPPORTS WHICH MAY BE BUT ARE NOT LIMITED TO: FLOOR DIAPHRAGM ASSEMBLIES, ROOF DIAPHRAGM ASSEMBLIES, OR TOP PLATES BRACED TO DIAPHRAGM ASSEMBLIES.
 - ALL INTERIOR PARTITION WALLS SHALL BE A MINIMUM 1/2" SHORT OF THE ROOF FRAMING AND BRACED TO THE ROOF STRUCTURE PER 8/SS.1, WHERE WALLS STOP SHORTER BELOW THE BOTTOM CHORD OF TRUSSES, BRACE PARTITION WALLS TO TRUSSES W/ 2X FRAMING AS REQUIRED.
 - ALL CMU WALLS SHALL BE REINFORCED AS NOTED ON THE NOTES PAGE, UNO, AND SHALL HAVE A CONTINUOUS BOND BEAM IN ACCORDANCE WITH 11/SS.4.
 - CESSNER ENGINEERING SHALL BE CONTACTED FOR REVIEW AND/OR REDESIGN WHEN CHANGES IN MEMBER SIZES AND/OR LOCATIONS ARE DESIRED.
 - ALL STONE LINTELS LESS THAN 10' - 0" IN LENGTH SHALL BE A MINIMUM L6X4X3/8. FOR LENGTHS GREATER THAN 10' - 0", CONTACT GESSNER ENGINEERING FOR ADDITIONAL INFORMATION.
 - WHERE UPLIFT CONNECTORS ARE ATTACHED FROM ROOF TRUSSES OR RAFTERS TO TOP PLATES, STUDS SHALL BE ATTACHED TO TOP PLATES AND SILL PLATES WITH UPLIFT CONNECTORS SPECIFIED IN THE FRAMING DETAILS.
 - SILL PLATES FOR EXTERIOR WALLS, INTERIOR BEARING WALLS, AND SHEAR WALLS TO BE ANCHORED WITH 5/8" Ø ANCHOR BOLTS WITH 3"X3"X1/4" PLATE WASHERS, REF. SILL PLATE ANCHORAGE DETAIL.

LEGEND:

- 2X6 STUDS @ 16" OC
- (2) 2X6 STUDS @ 16" OC
- PARTITION WALL, REF. ARCH
- 8" CMU WALL, REF. SS.4
- 6" CMU WALL, REF. SS.4
- 6" CMU PARTITION WALL
- ROOF SUPPORT WALL

UPLIFT CONNECTION TABLE

LOCATION	RAFTER/ROOF TRUSS TO TOP PLATE	TOP PLATE TO STUD	FLOOR TO FLOOR	STUD TO SILL PLATE
AT RAFTER	48" OC	48" OC	48" OC	48" OC
AT ROOF TRUSS	48" OC	48" OC	48" OC	48" OC
AT ROOF TRUSS (APP BAY)	16" OC	-	-	-

- UPLIFT CONNECTION NOTES:**
- ALL CLIPS, CONNECTORS, AND HANGERS ARE TO BE MANUFACTURED BY SIMPSON STRONGTIE, OR APPROVED EQUAL, UNO.
 - AT OPENINGS IN EXTERIOR WALLS & LOAD BEARING INTERIOR WALL, REF. 6/SS.1 FOR HEADER CONNECTIONS.

PANEL TABLE

USE	WALL SHEATHING	FLOOR DECKING	ROOF DECKING
PANEL GRADE	APA RATED SHEATHING EXPOSURE 1	APA RATED STURD-I-FLOOR EXPOSURE 1	APA RATED SHEATHING EXPOSURE 1
MIN THICKNESS	1/2"	1 1/8"	3/4"
TYP. NAILING	8d @ 12" OC 8d @ 6" OC	10d @ 12" OC 10d @ 6" OC	8d @ 12" OC 8d @ 6" OC
EDGE NAILING			

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CORPORATE OFFICE
2501 ASHFORD DRIVE
COLLEGE STATION, TX 77840
TEL: 979.765.1234 FAX: 979.765.1235
WWW.GESSNERENGINEERING.COM
FIRM REGISTRATION NUMBERS:
18PE-1541, 18PE-1542, 18PE-1543, 18PE-1544

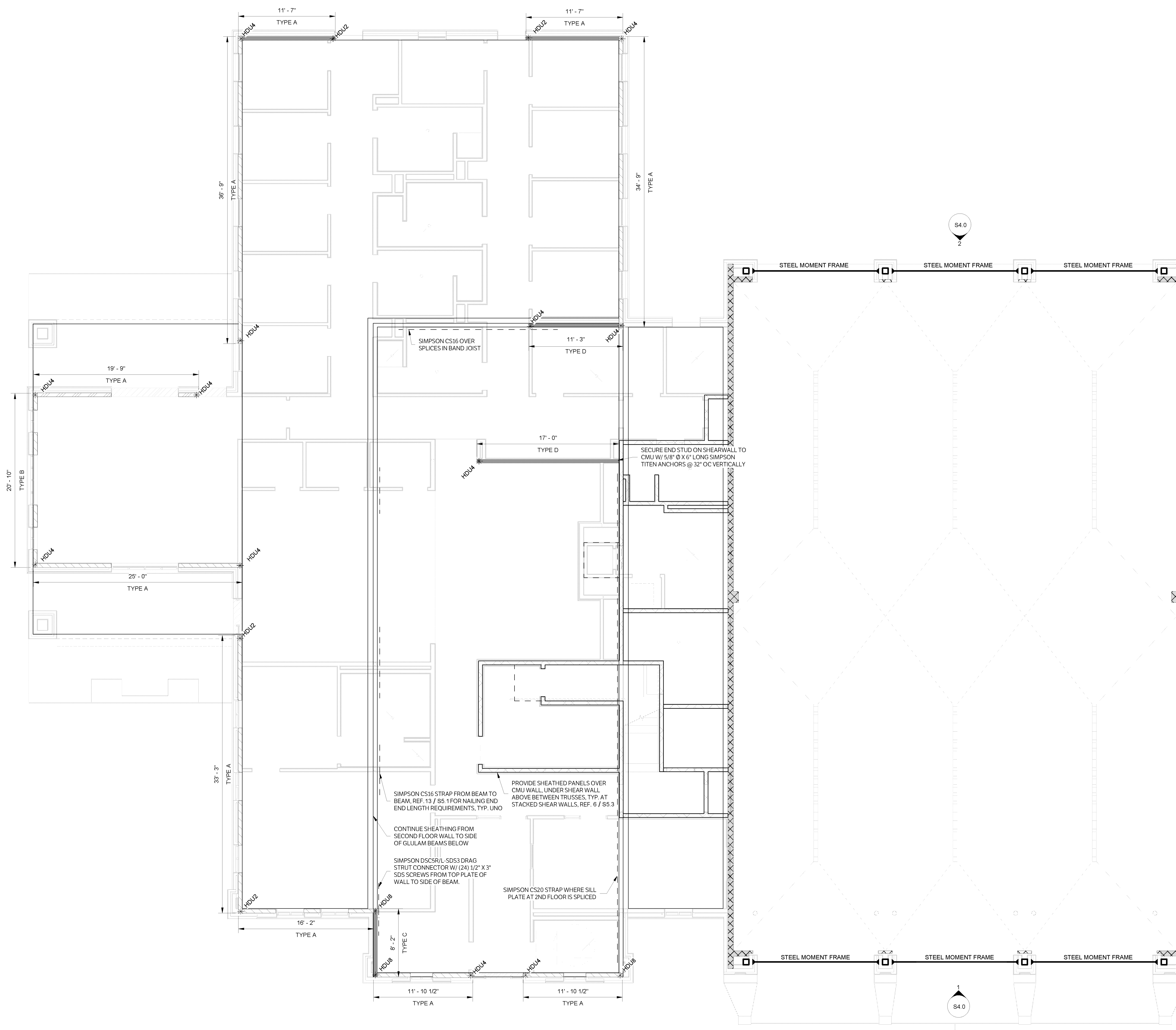
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FIRE STATION NO. 7**
2711 EAST UNIVERSITY AVENUE
GEORGETOWN, TX 78626

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S1.3

ROOF FRAMING PLAN

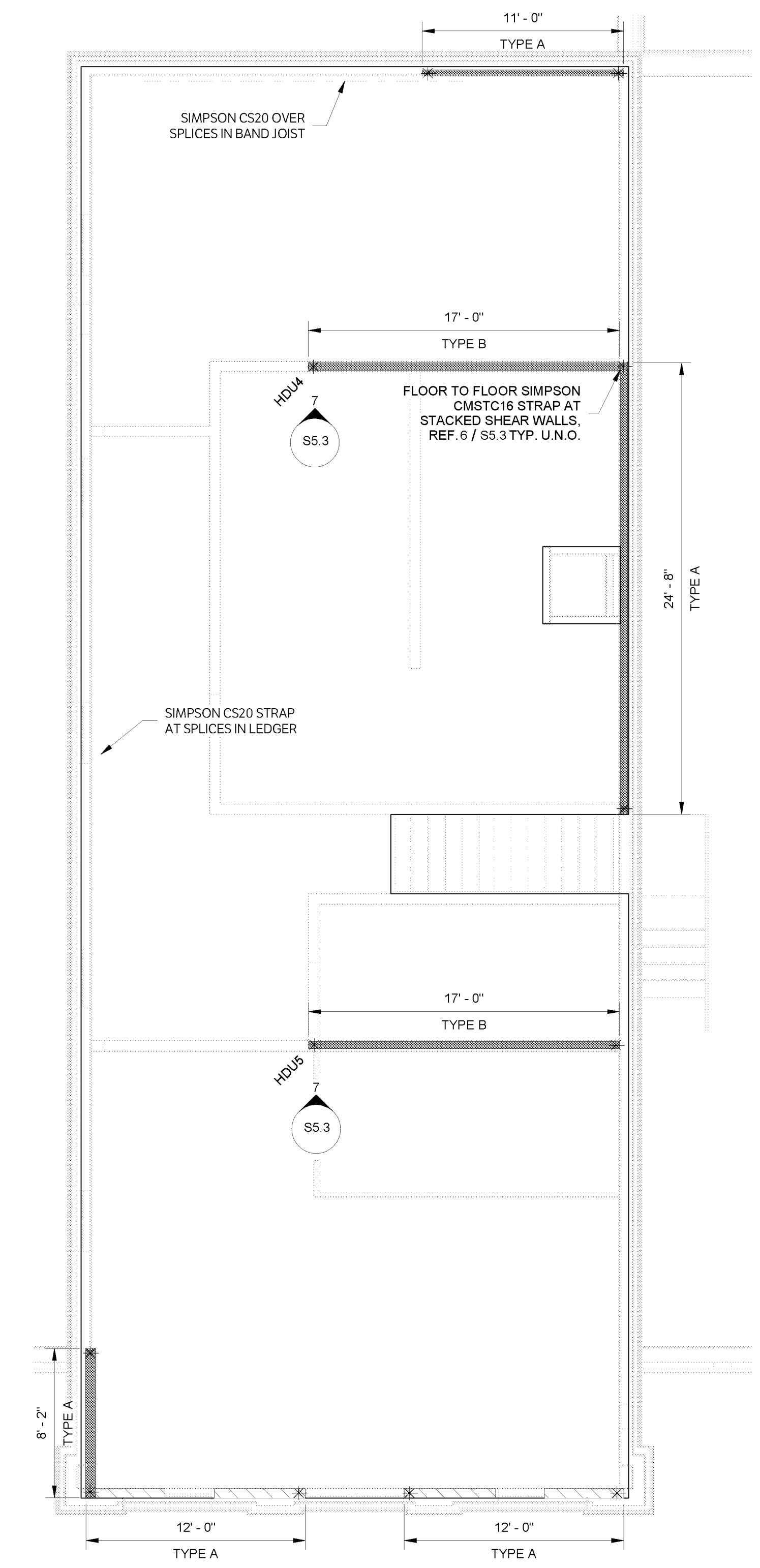


LEGEND:

- LOCATION OF SHEAR WALL, REF. 1 / S5.3
- LOCATION OF FORCE TRANSFER SHEAR WALL, REF. 2 / S5.3
- LOCATION OF PERFORATED SHEAR WALL, REF. 5 / S5.3
- SHEAR WALL HOLDDOWN, REF. 3 / S5.3
- STEEL MOMENT FRAME

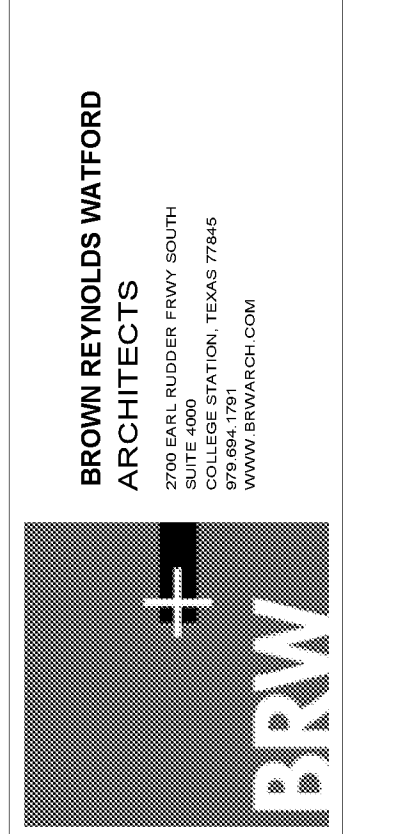
HOLDOWN SCHEDULE				
HOLDOWN	ANCHOR BOLT DIA.	# OF STUDS PER HOLDOWN	CAST-IN-PLACE FOUNDATION EMBEDMENT	POST-INSTALL FOUNDATION EMBEDMENT
HDU2	5/8"	2	8"	8"
HDU4	5/8"	2	10"	12"
HDU5	5/8"	2	14"	N/A
HDU8	7/8"	3	16"	N/A

SHEARWALL SCHEDULE			
TYPE	PANEL EDGE FASTENERS	PANEL INTERMEDIATE FASTENERS	ANCHOR BOLTS
A	@ 6" OC	@ 12" OC	@ 48" OC
B	@ 4" OC	@ 12" OC	@ 48" OC
C	@ 4" OC	@ 12" OC	@ 32" OC
D	@ 3" OC	@ 6" OC	@ 32" OC



1 1ST FLOOR LATERAL PLAN
3/16" = 1'-0"

2 2ND FLOOR LATERAL PLAN
3/16" = 1'-0"



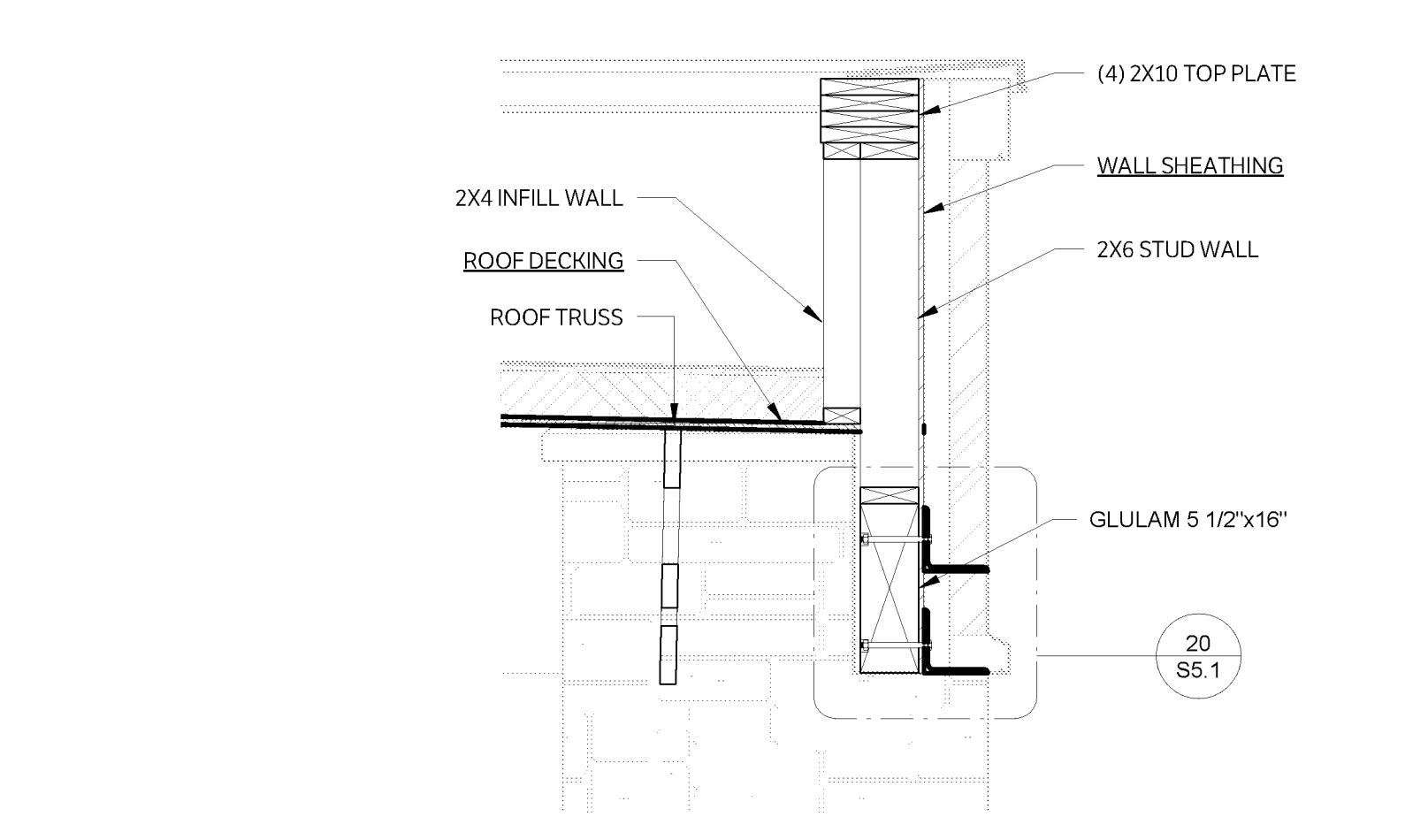
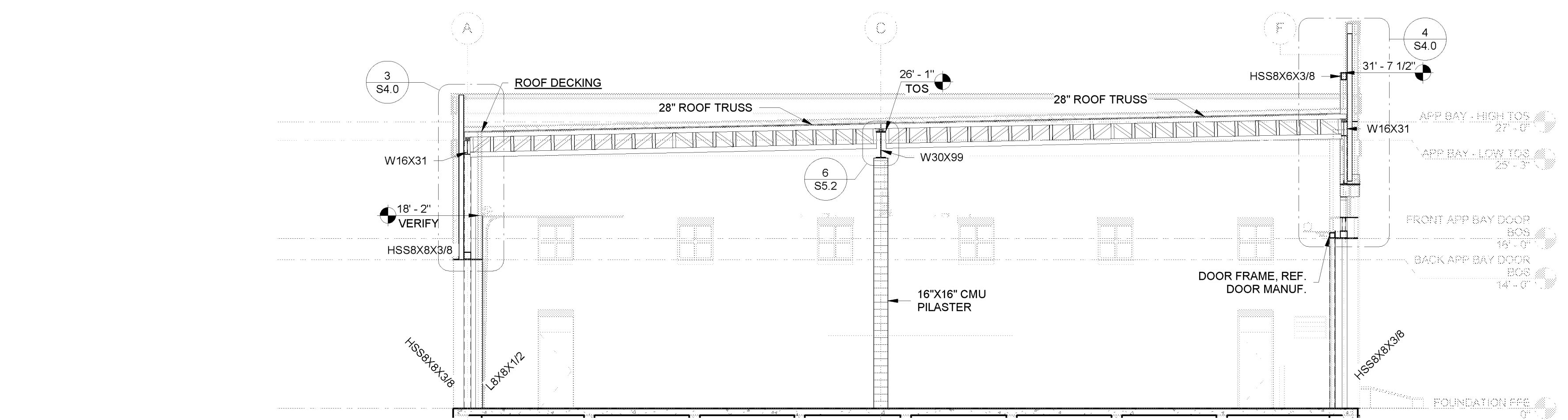
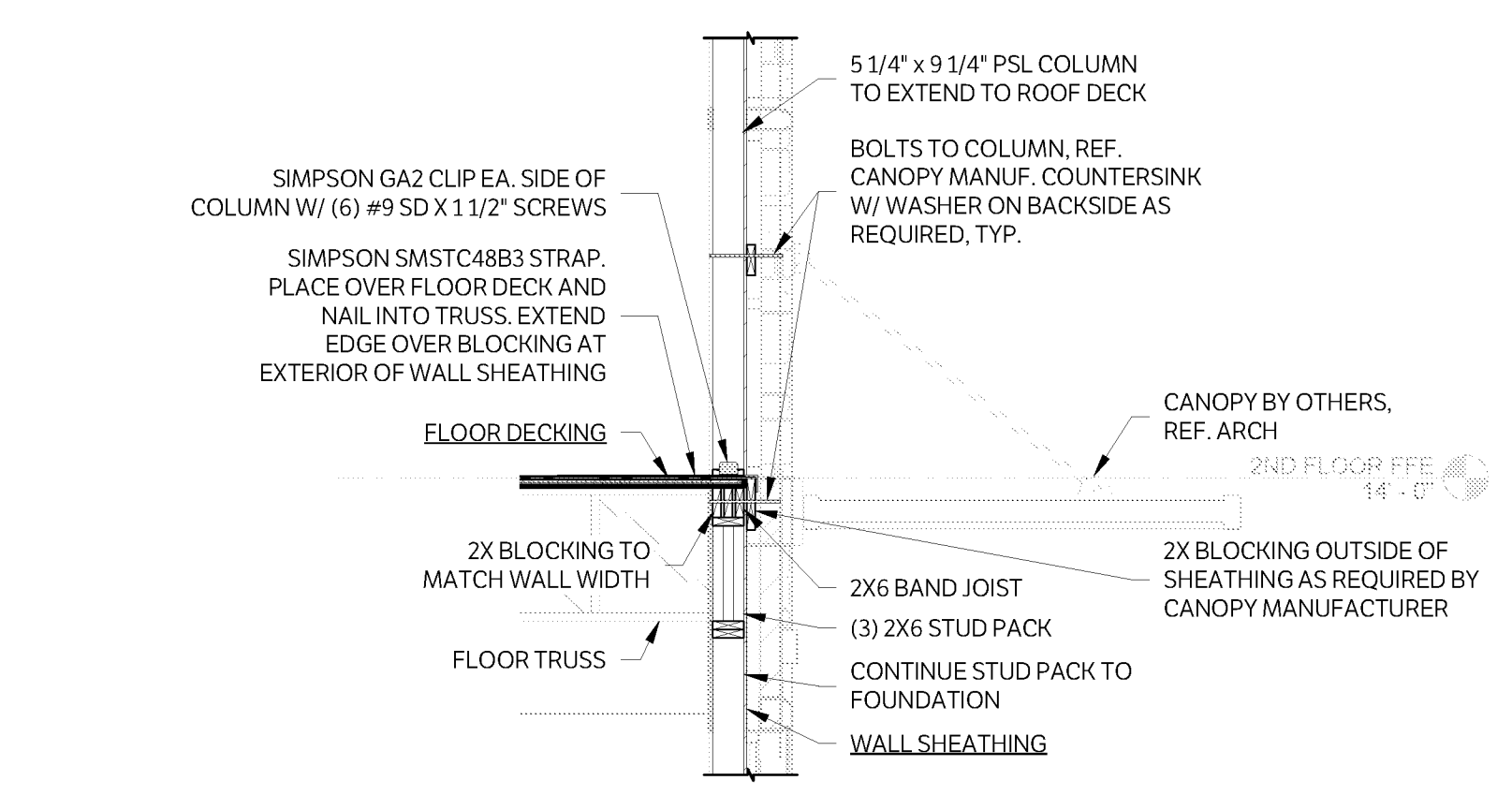
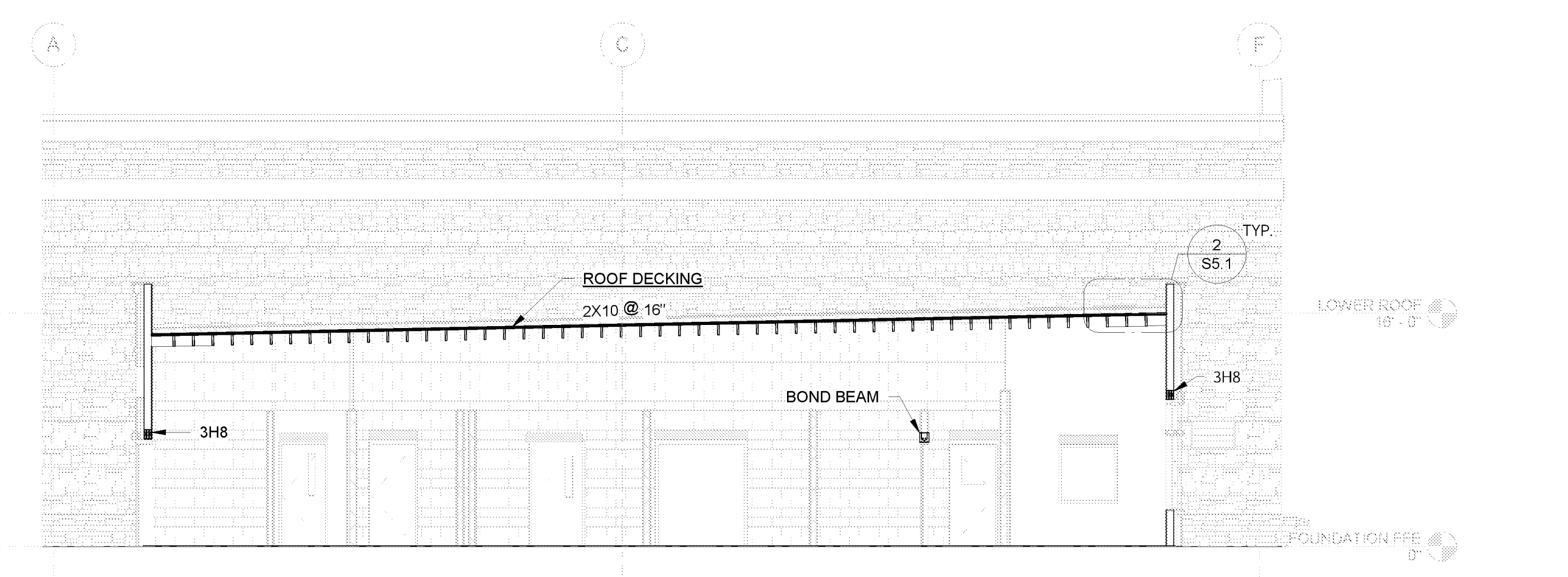
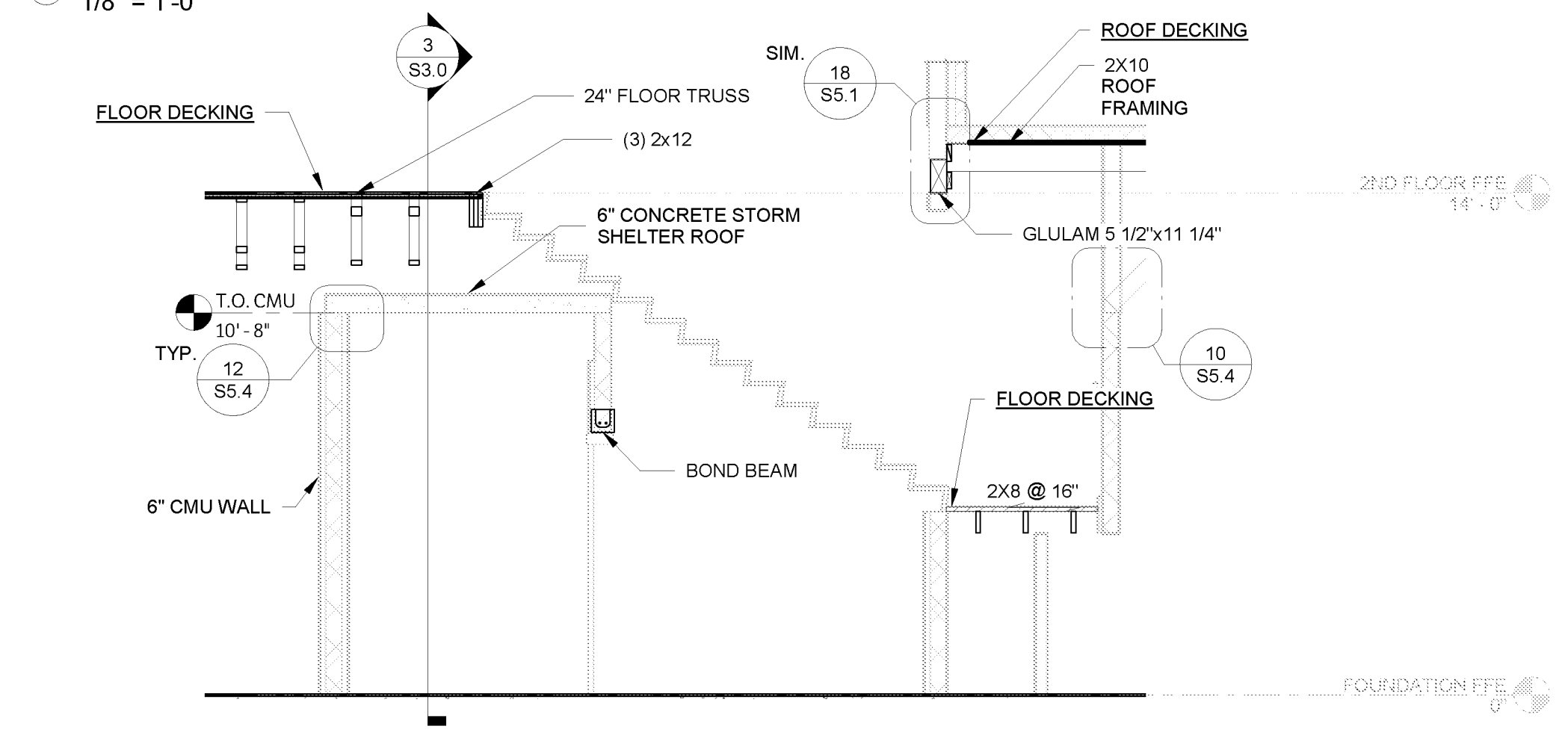
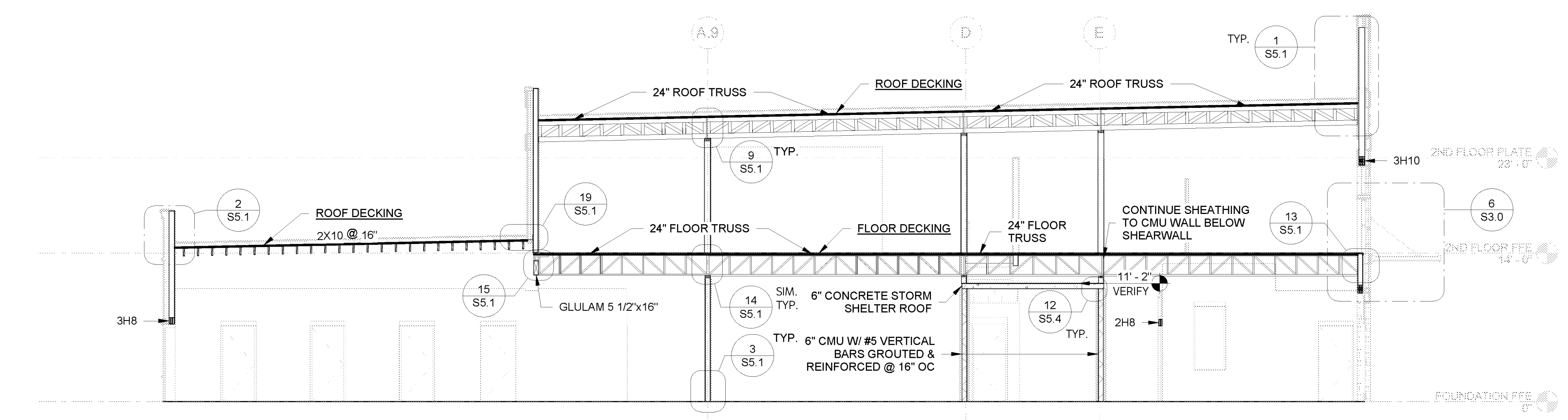
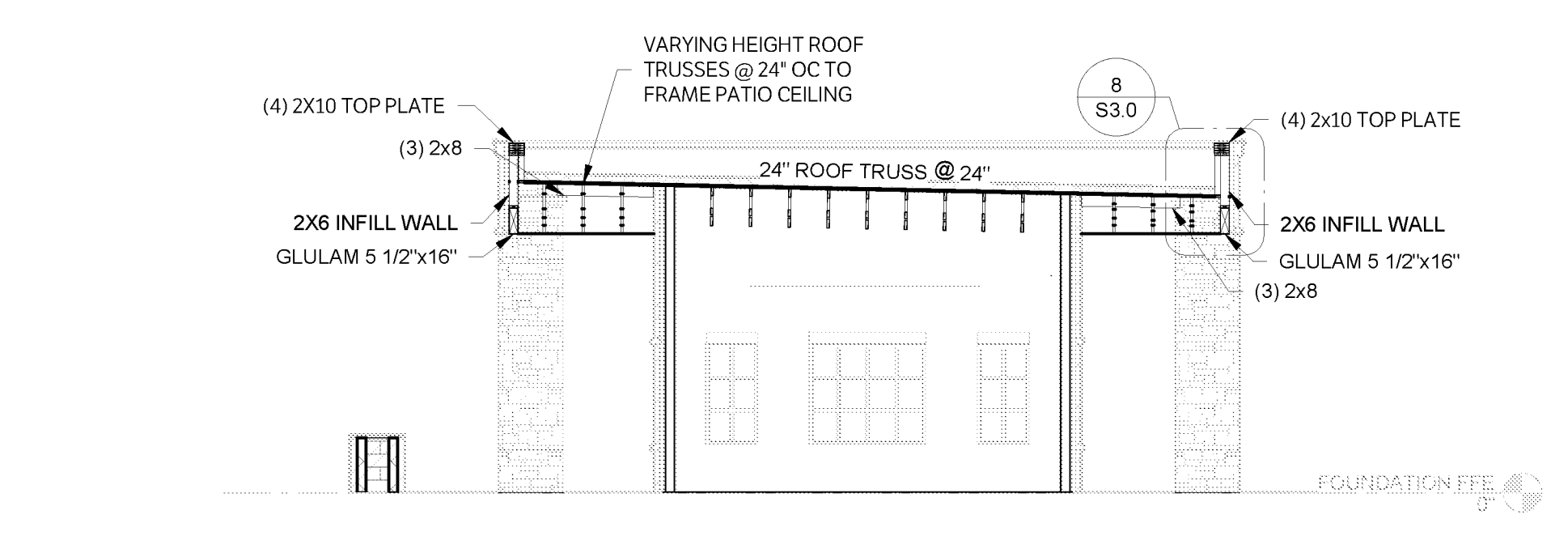
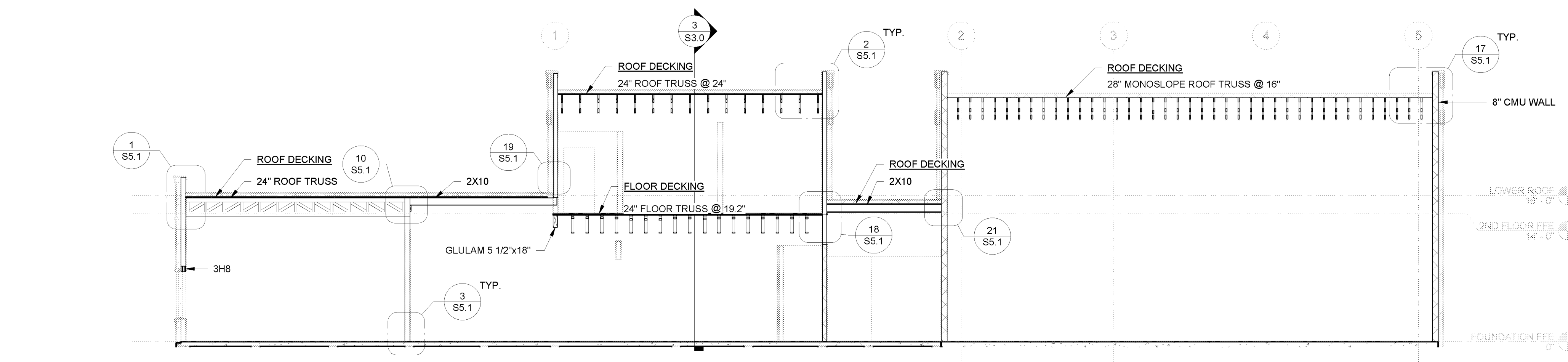
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COLLEGE STATION, TX 77840
CALL: 1-877-GESSNER (437-7637)
WWW.GESSNERENGINEERING.COM
FIRM REGISTRATION NUMBERS:
TYPE-P-7451, TYPE-F-1035910



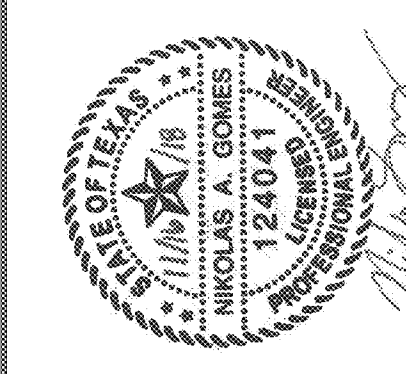
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GEORGETOWN, TX 78626

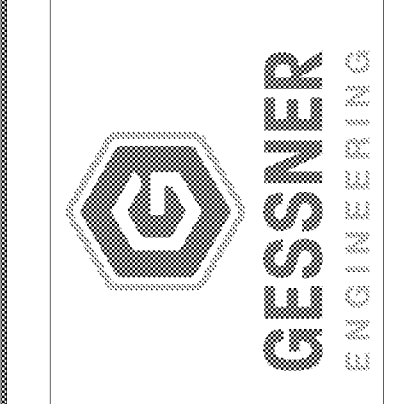
NO.	DESCRIPTION	DATE



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CITY OF GEORGETOWN, TEXAS 78640
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WWW.GESSNERENGINEERING.COM
FIRM REGISTRATION NUMBERS:
18PE-7451, 18PE-CP-1015910

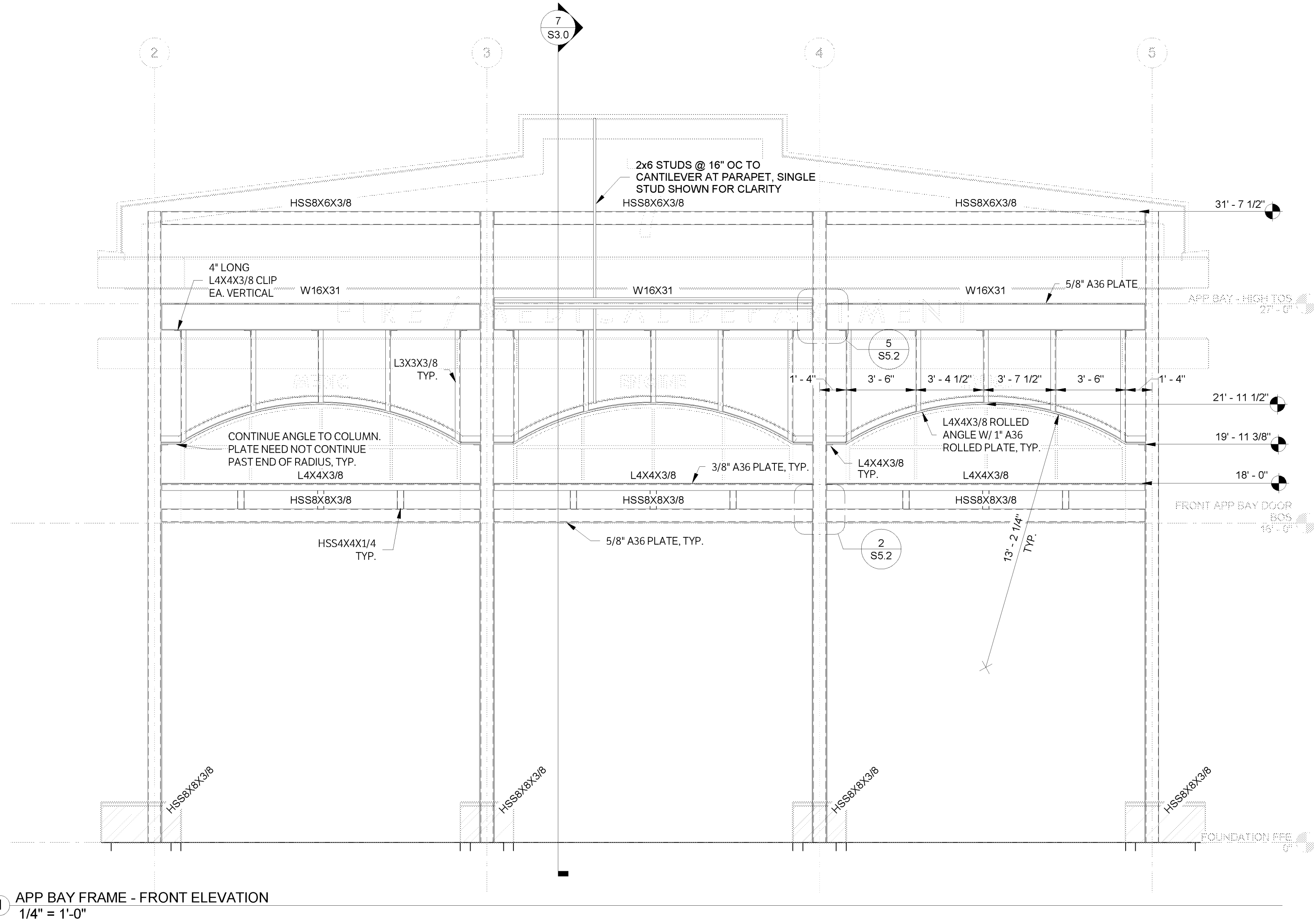


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PROJECT NO. 18-0364

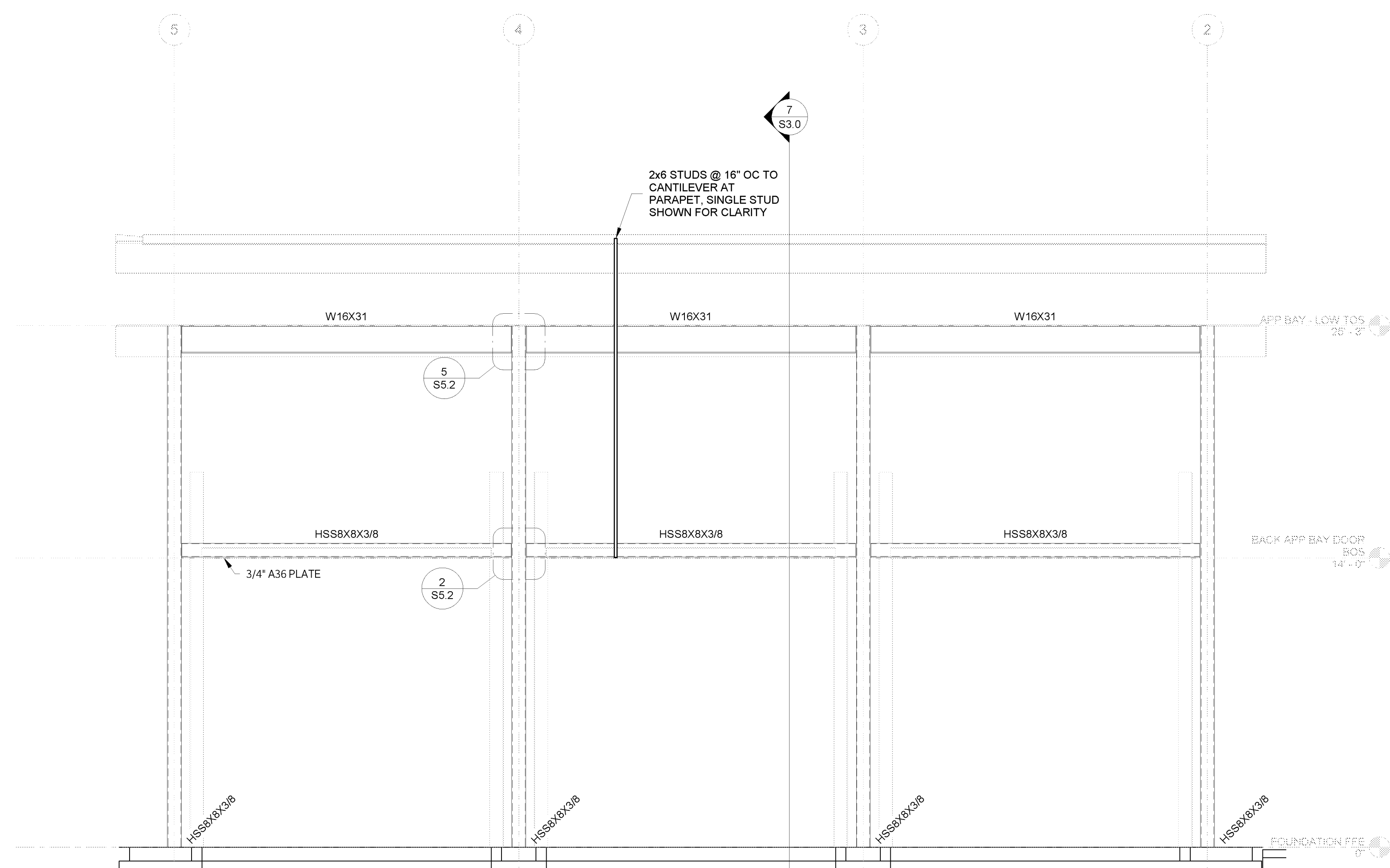
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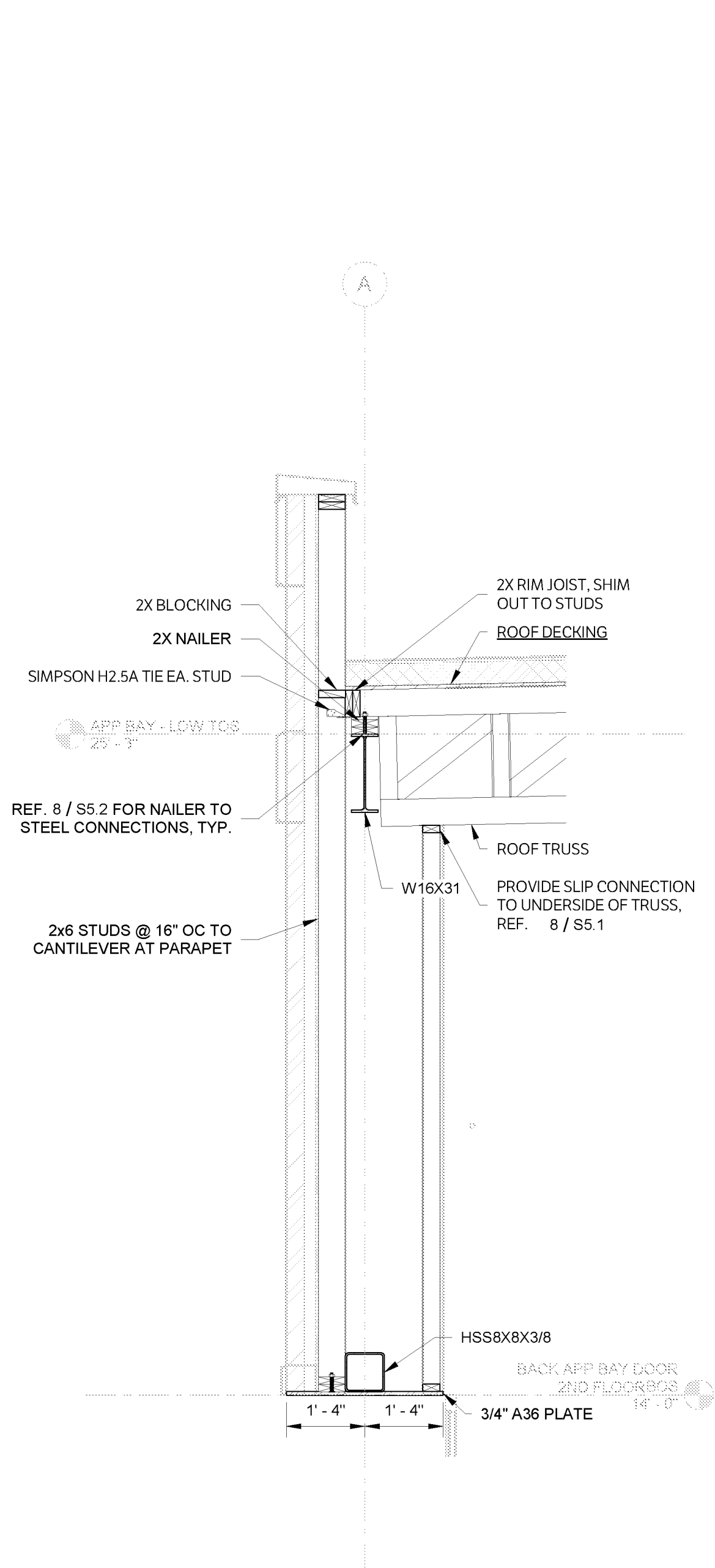
S3.0
SECTION



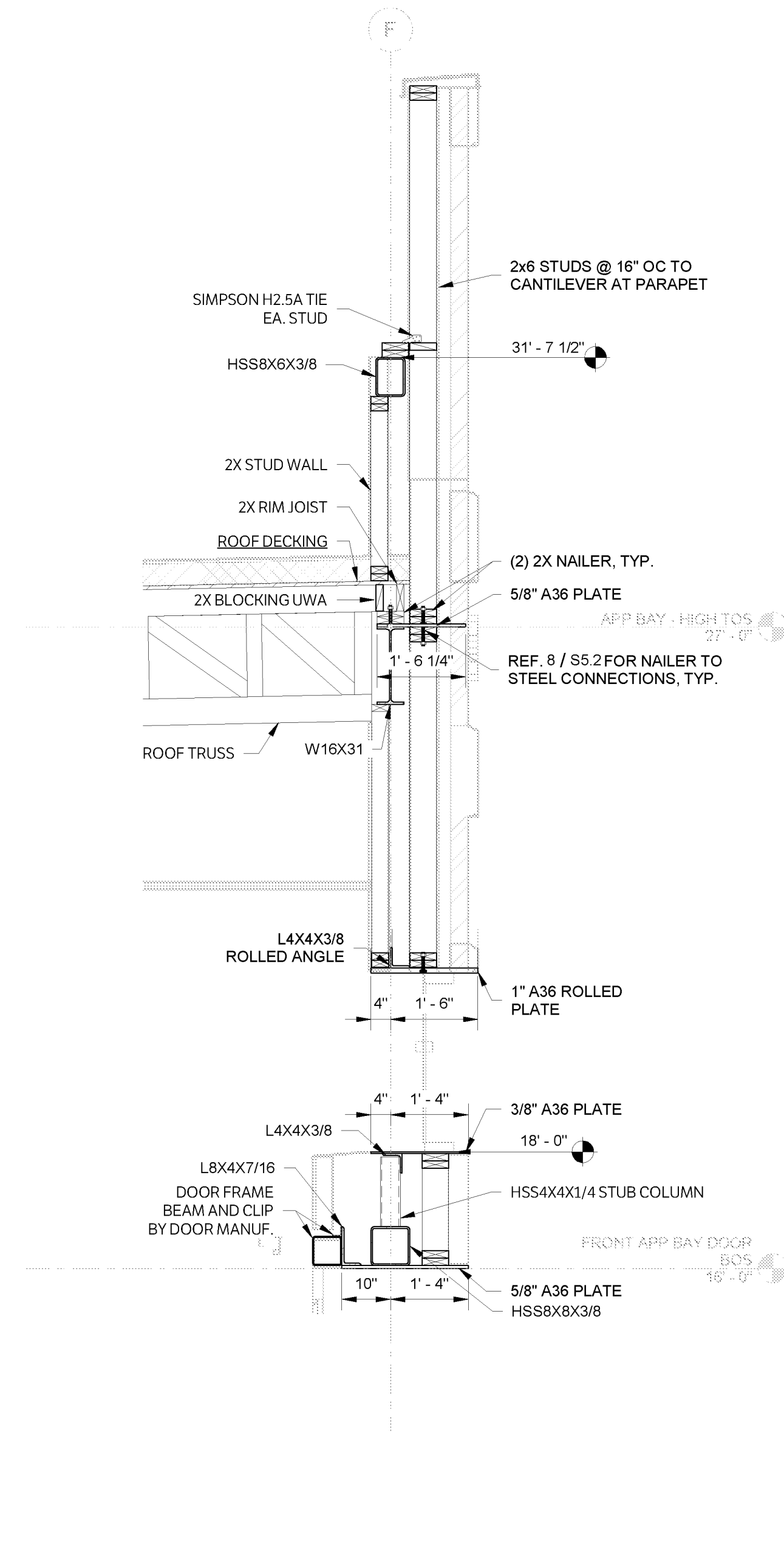
1 APP BAY FRAME - FRONT ELEVATION
1/4" = 1'-0"



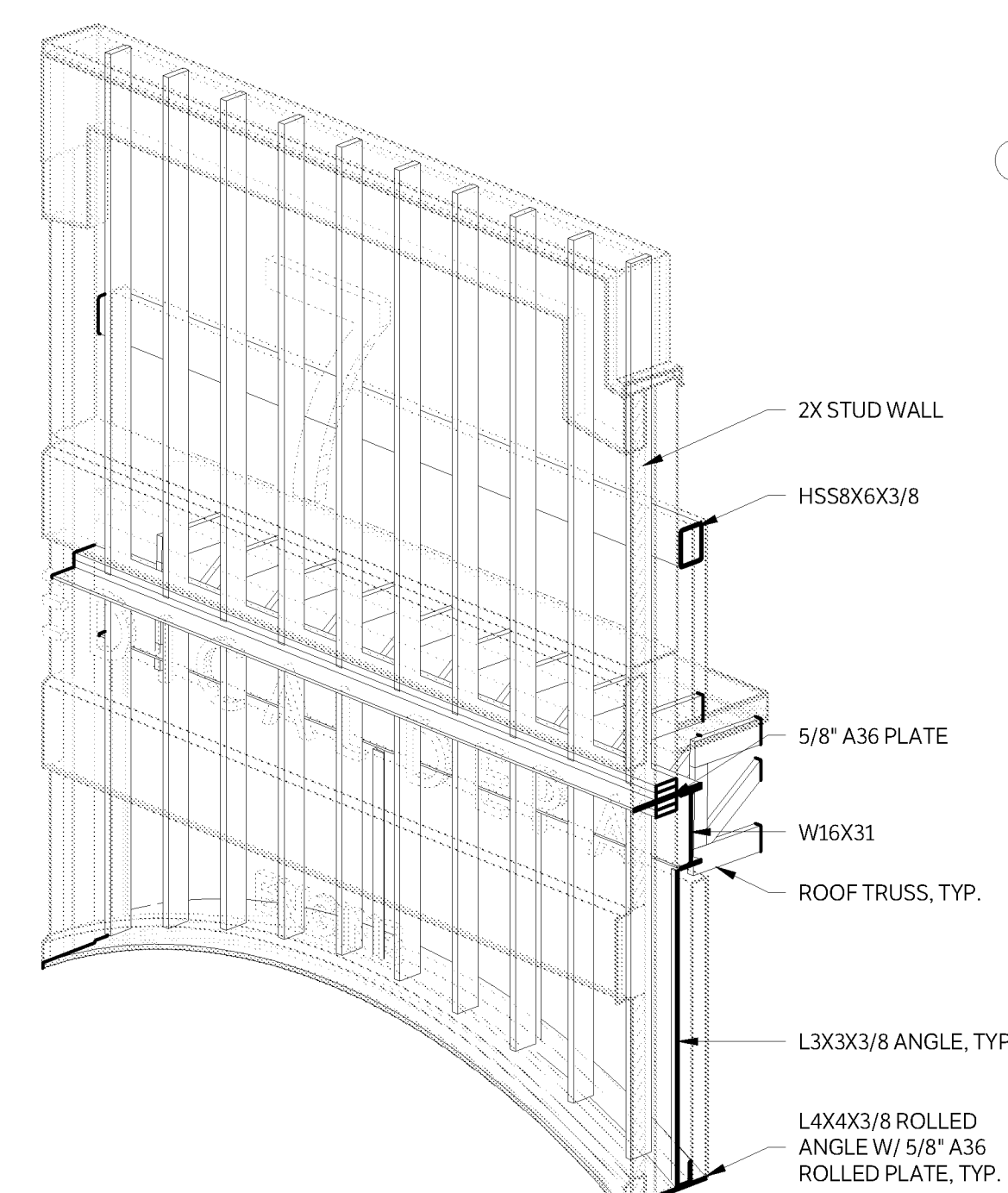
2 APP BAY FRAME - BACK ELEVATION
1/4" = 1'-0"



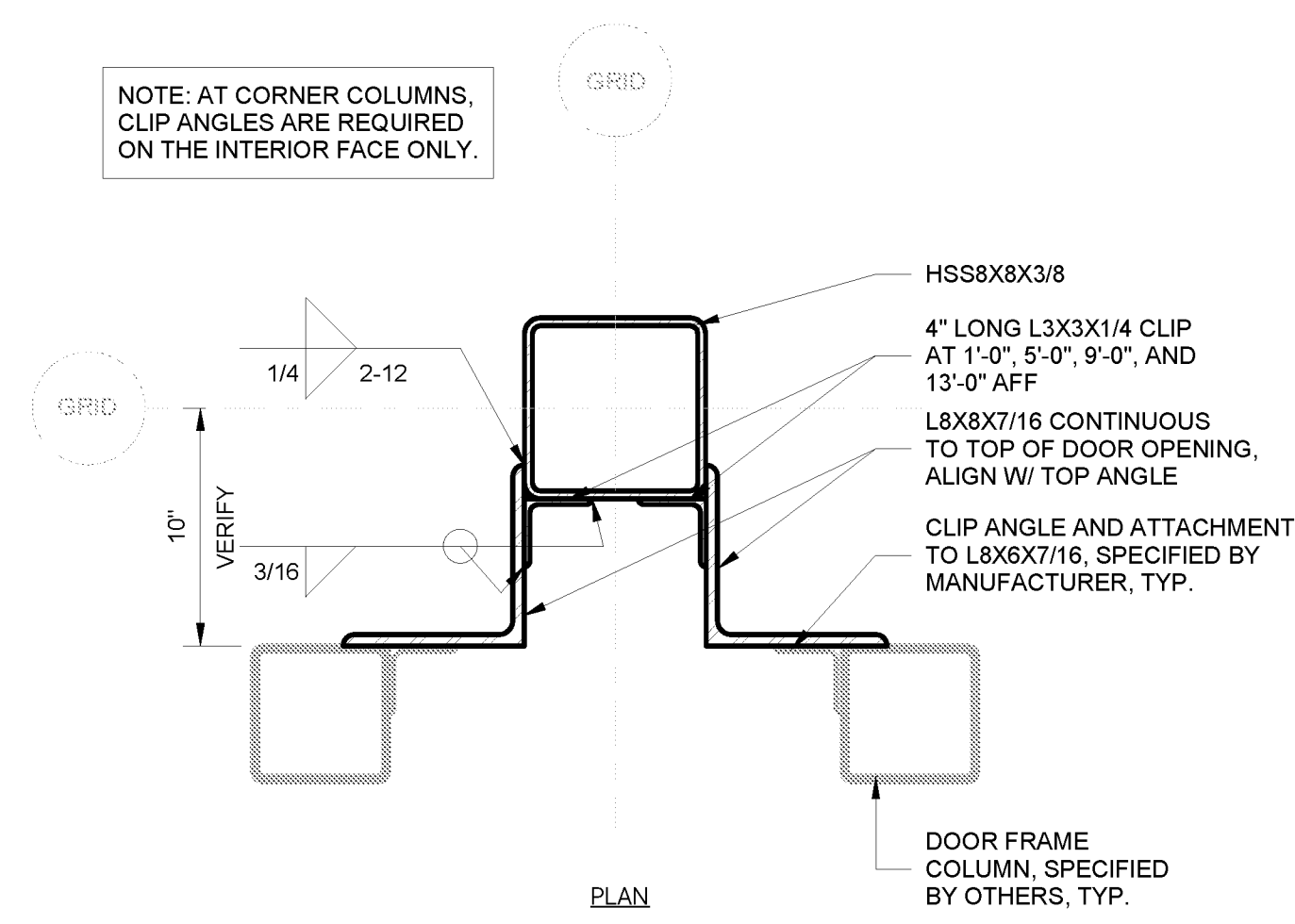
3 APP BAY - BACK DOOR
1/2" = 1'-0"



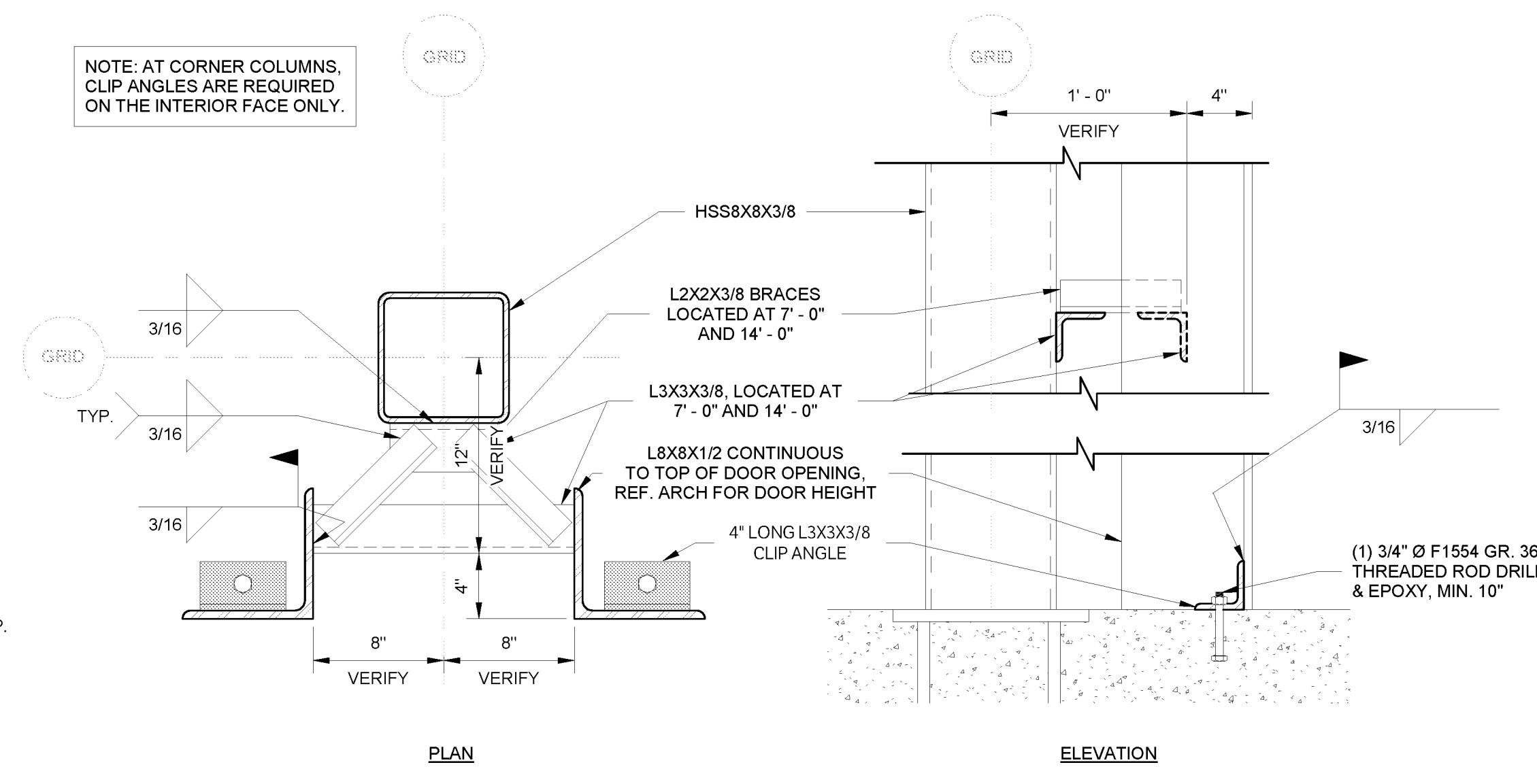
4 APP BAY - FRONT DOOR
1/2" = 1'-0"



5 TYPICAL APP BAY FRAMING ISOMETRIC - FRONT ELEVATION



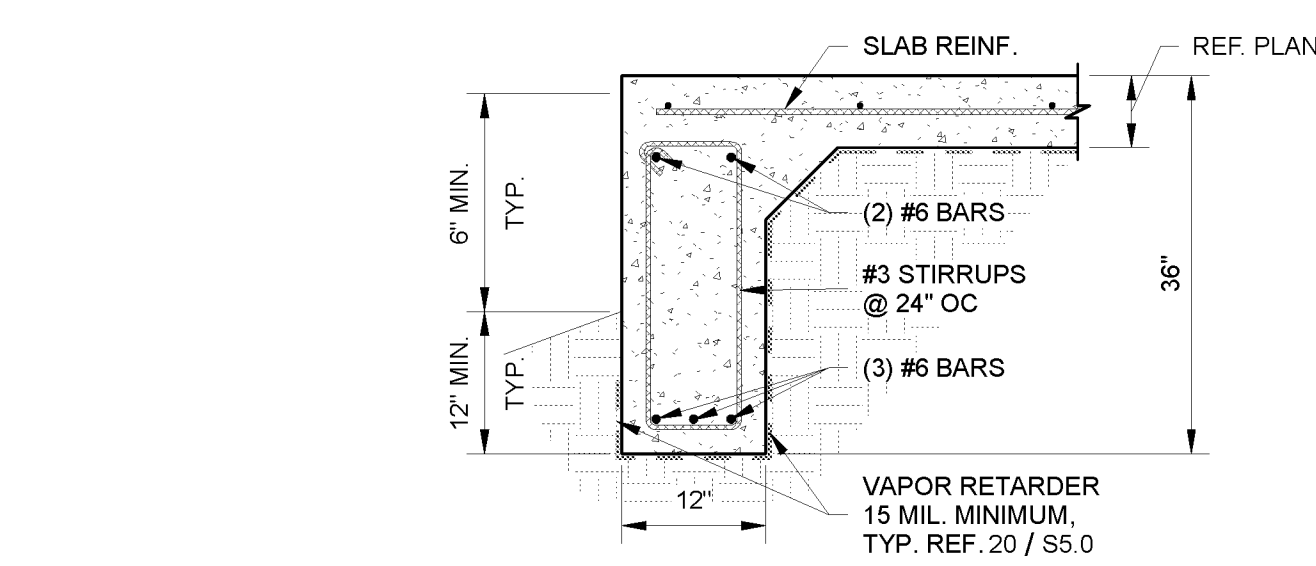
6 APP BAY - BI-FOLD DOOR
N.T.S.



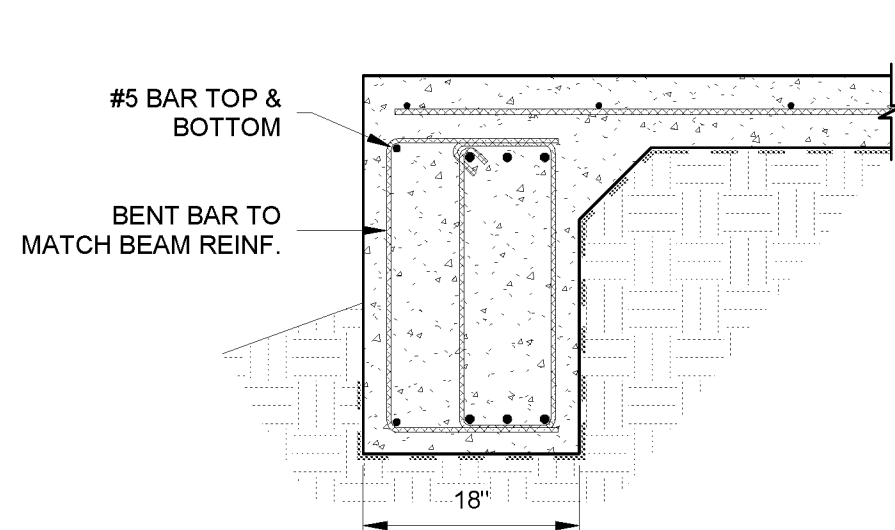
7 APP BAY - OVERHEAD DOOR
N.T.S.

NO.	DESCRIPTION	DATE

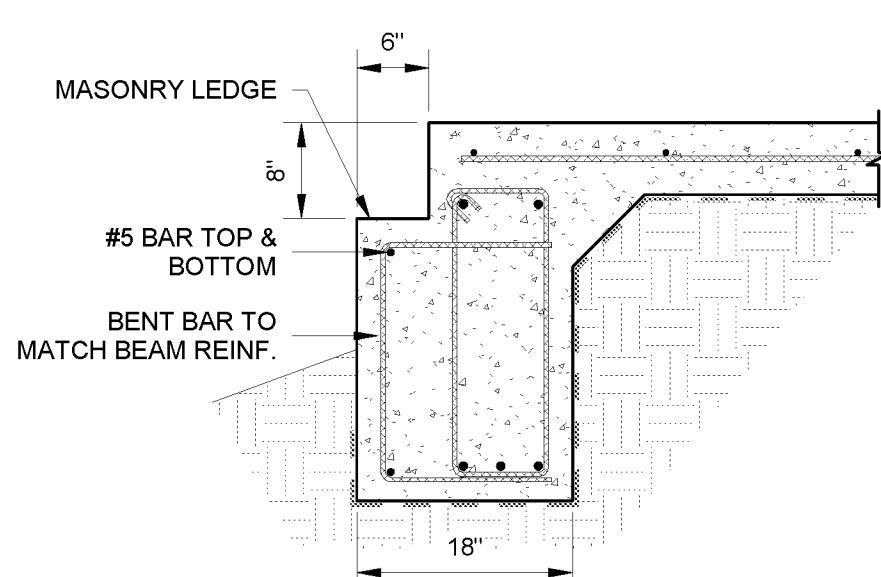
NOTES:
 1. REFERENCE PLANS FOR SLOPING SLAB CONDITIONS.
 2. WHERE SLAB DROP IS LESS THAN OR EQUAL TO 1 1/2", SLAB REINFORCEMENT MAY BE CONTINUOUS AND BENT BELOW DROP IN LIEU OF PROVIDING BENT BARS AS SHOWN.
 3. VAPOR RETARDER AS DETAILED TO BE INSTALLED BELOW ALL FOUNDATION CONCRETE.
 4. ALL SPLICES SHALL BE AS SPECIFIED IN THE GENERAL NOTES.
 5. BEAM REINFORCEMENT TYPICAL UNLESS NOTED OTHERWISE.
 6. BEAM WIDTH AND DEPTH TYPICAL UNLESS NOTED OTHERWISE.
 7. WHERE CMU WALLS OCCUR ABOVE BEAMS, PROVIDE CAST-IN-PLACE DOWELS PER 9 / S5.4



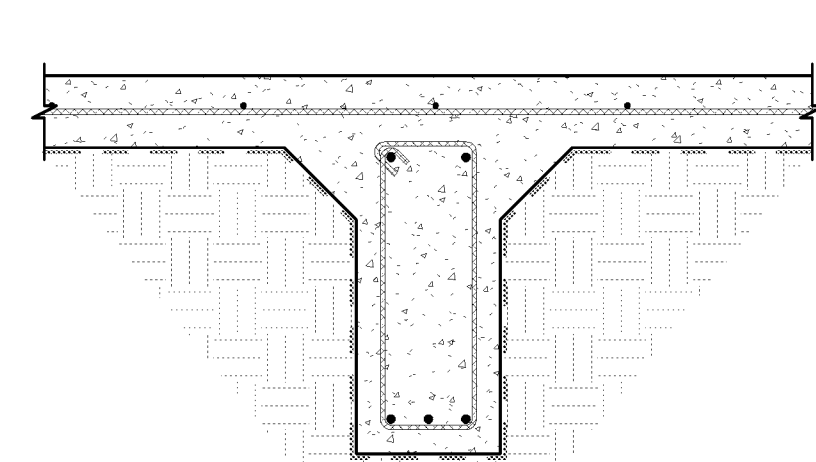
1 EXTERIOR BEAM
N.T.S.



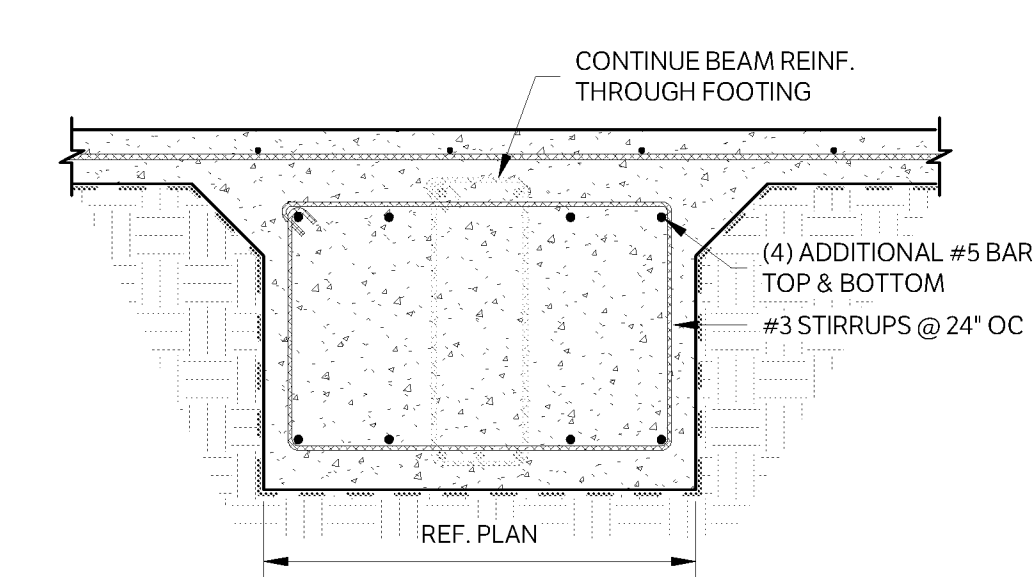
2 WIDE EXTERIOR BEAM - 18" WIDE
N.T.S.



3 EXTERIOR BEAM W/ MASONRY LEDGE
N.T.S.

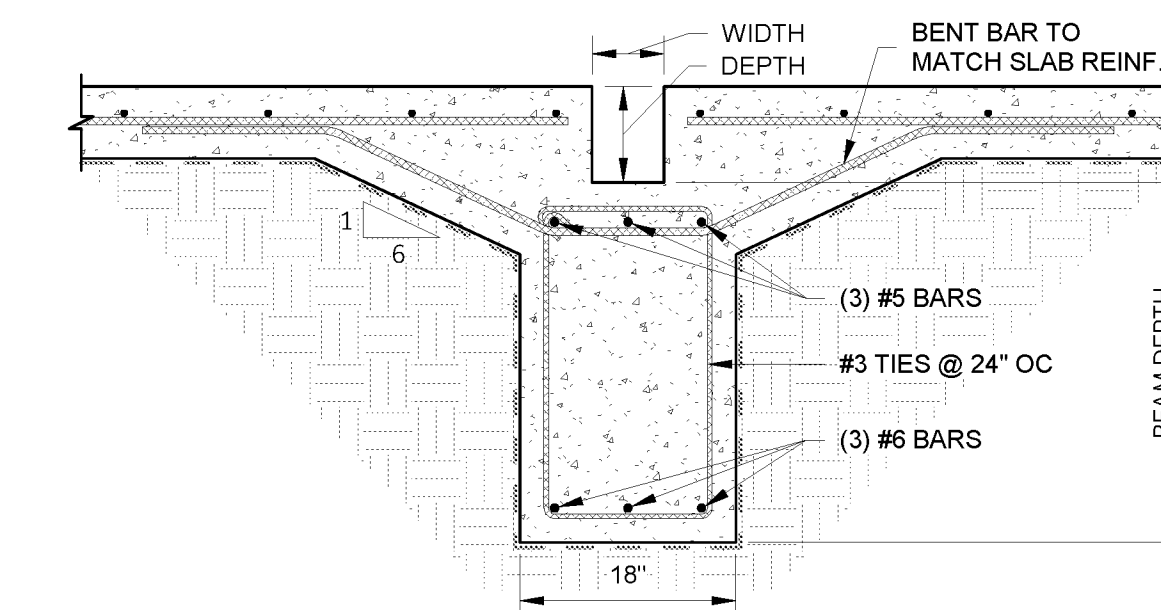


4 INTERIOR BEAM
N.T.S.

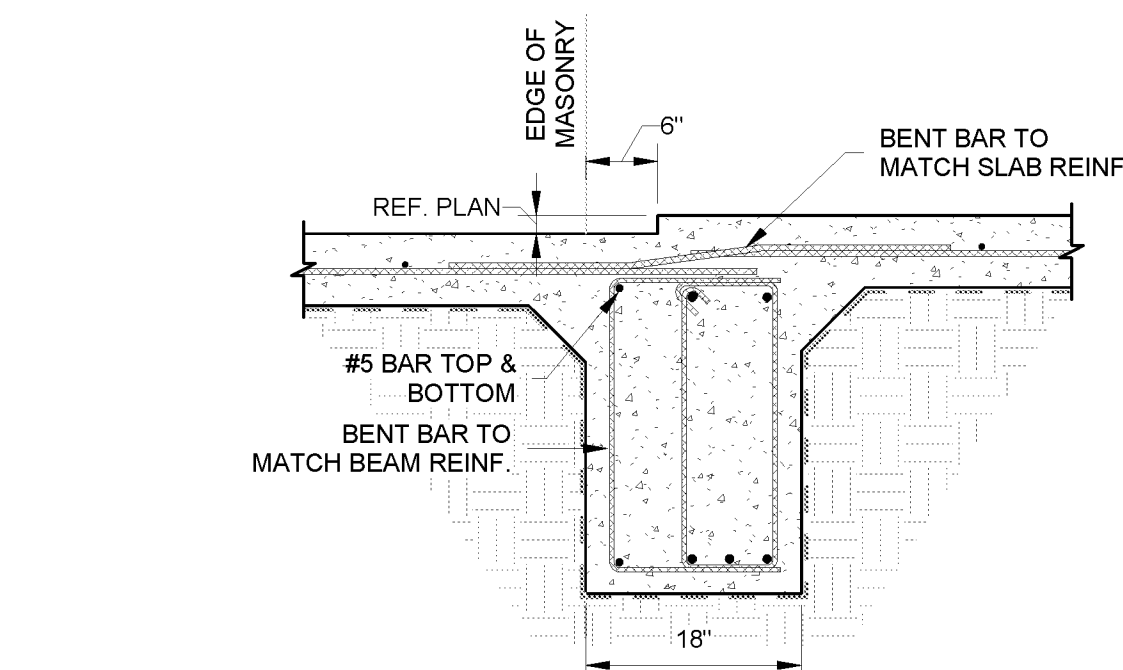


5 WIDENED INTERIOR BEAM
N.T.S.

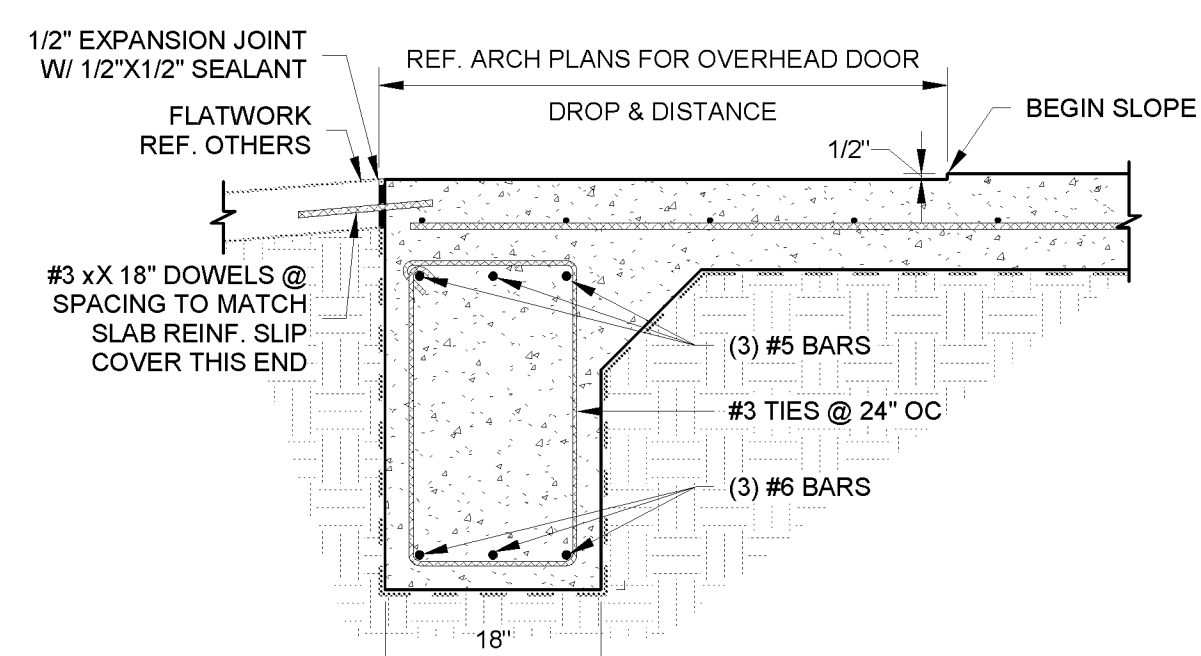
NOTES:
 1. TRENCH DRAIN WIDTH & DEPTH SHALL BE DETERMINED BY MANUF. WRITTEN REQ. & INSTRUCTIONS FOR INSTALLATION.
 2. NO REINF. SHALL BE CUT OR MODIFIED TO ACCOMMODATE THE TRENCH DRAIN AND/OR ALL ASSOCIATED PLUMBING. PLACEMENT OF THE STEEL REINF. & FORMWORK SHALL BE COORDINATED W/ THE TRENCH DRAINS & ASSOCIATED PLUMBING PRIOR TO CONSTRUCTION.



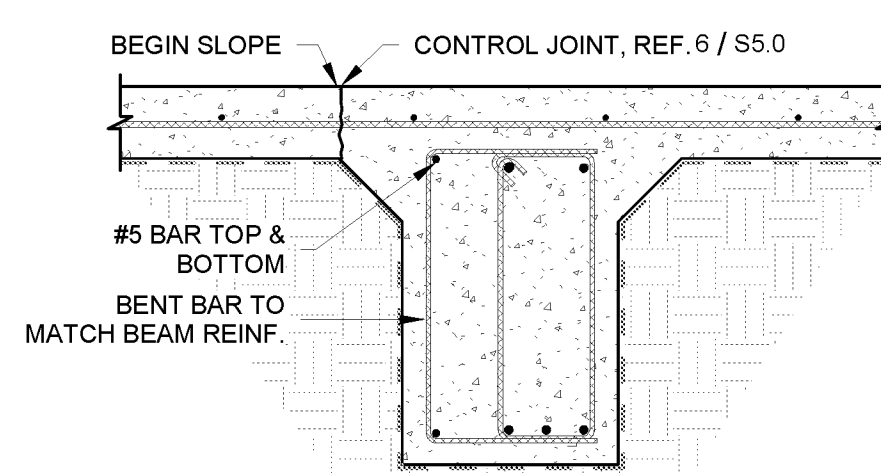
6 TRENCH DRAIN
N.T.S.



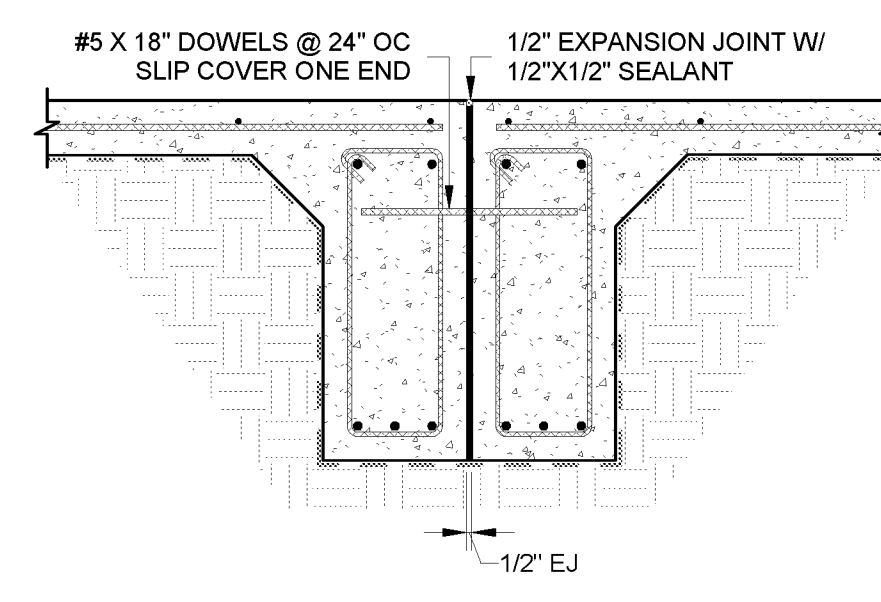
7 INTERIOR BEAM W/ MASONRY LEDGE OFFSET IN
N.T.S.



8 GRADE BEAM AT BIFOLD/OVERHEAD DOOR
N.T.S.

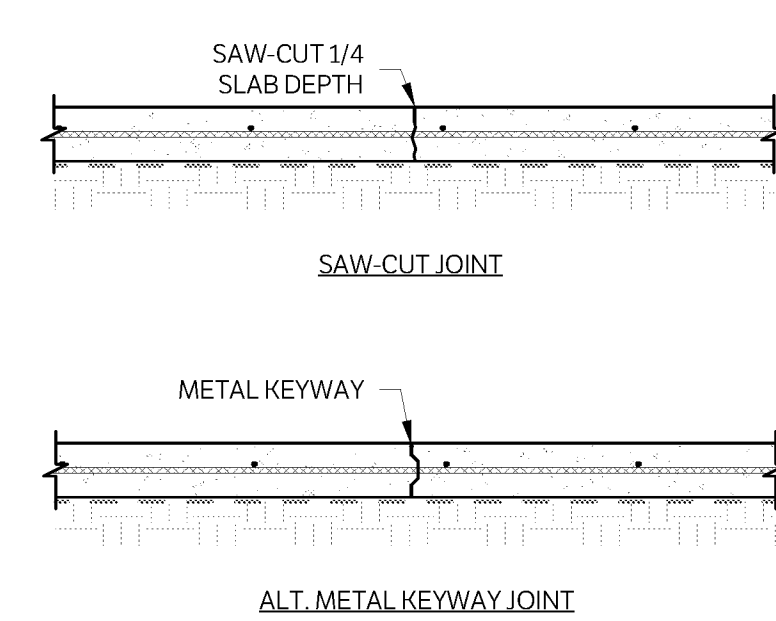


9 INTERIOR BEAM W/ CONTROL JOINT
N.T.S.

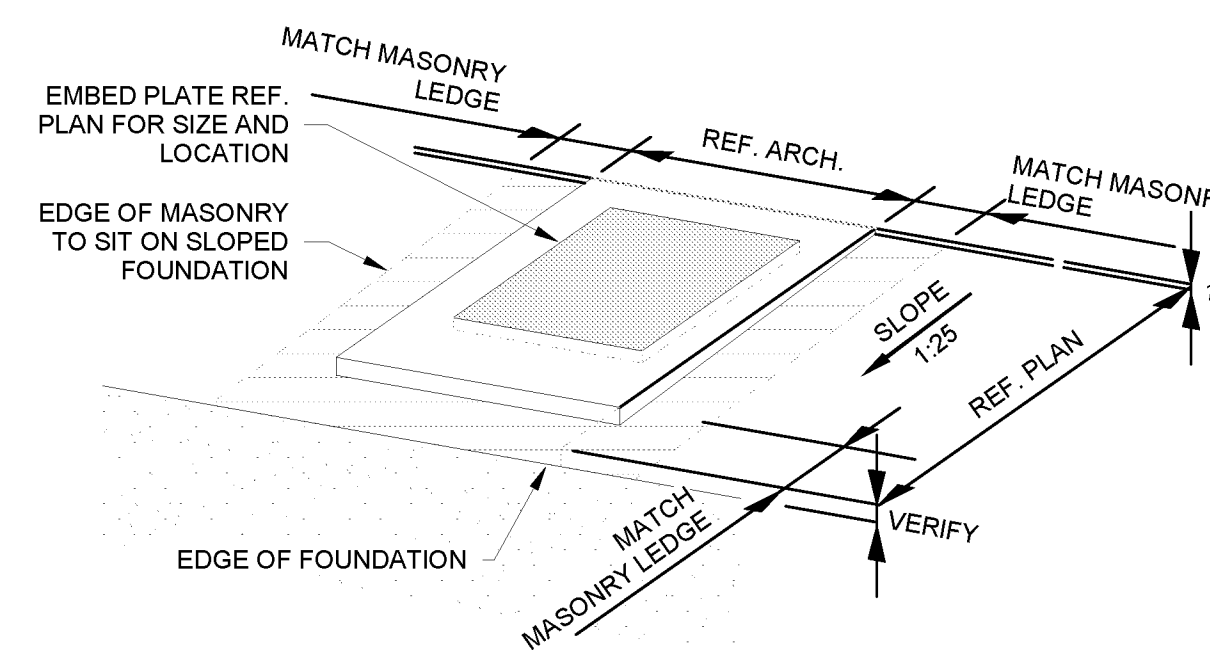


10 EXPANSION JOINT
N.T.S.

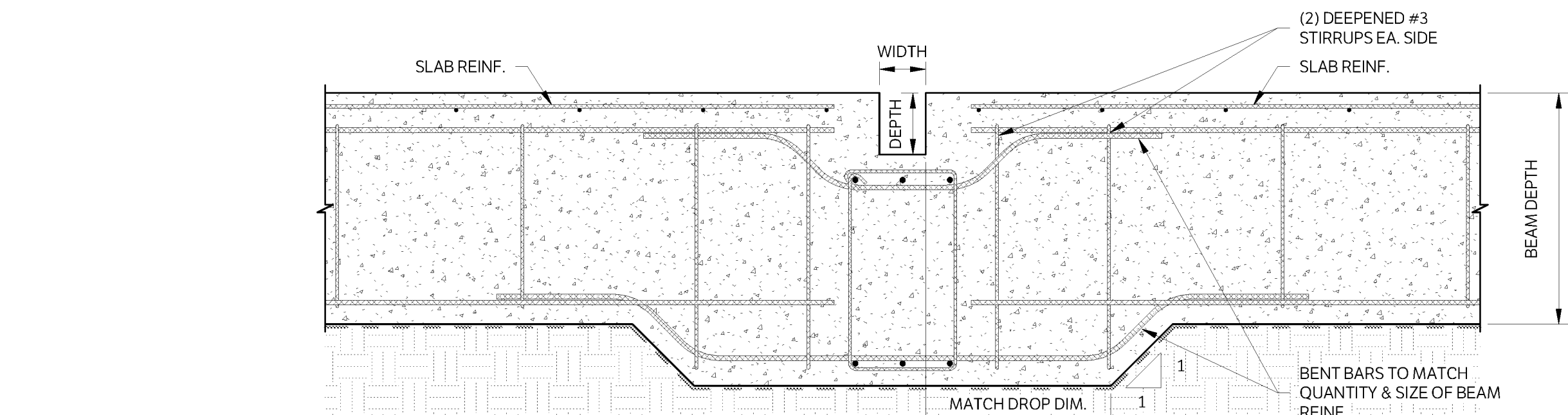
NOTE: THE SAW CUT OPERATION SHALL BE PERFORMED WITHIN 24 HR. OF CONCRETE PLACEMENT



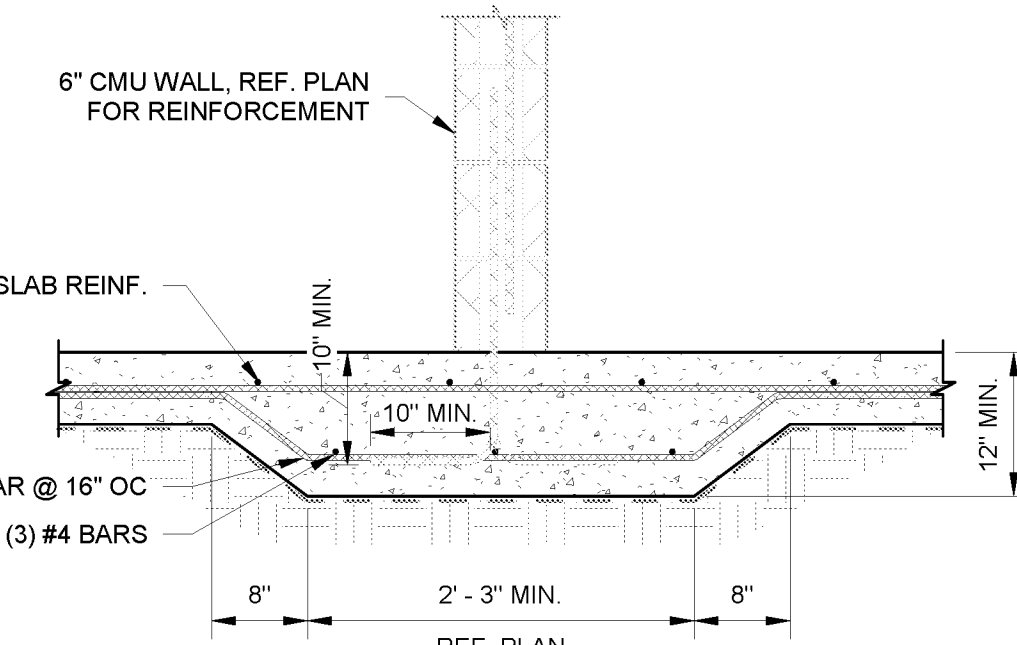
11 CONTROL JOINT METHODS
N.T.S.



12 APP BAY EMBED PLATE ISOMETRIC
N.T.S.

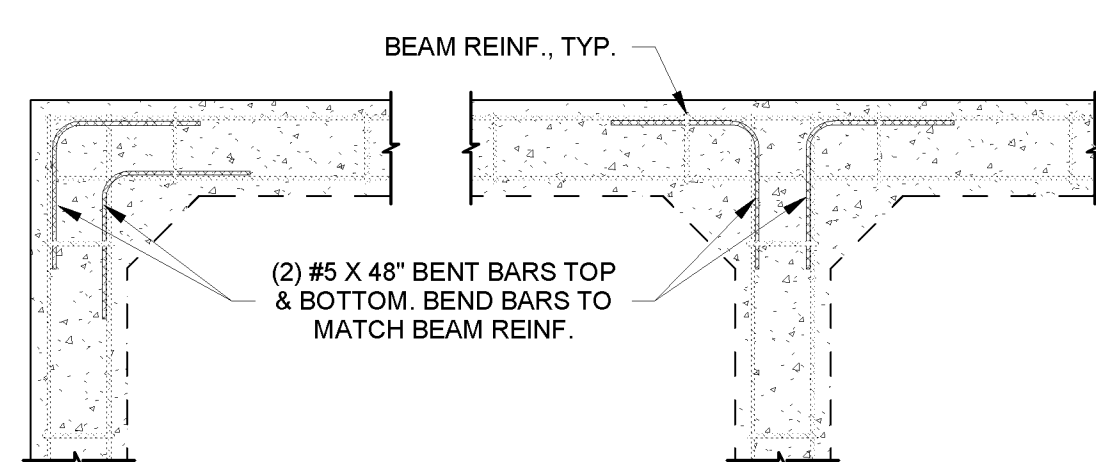


13 DROP IN BEAM STEEL @ TRENCH DRAIN
N.T.S.

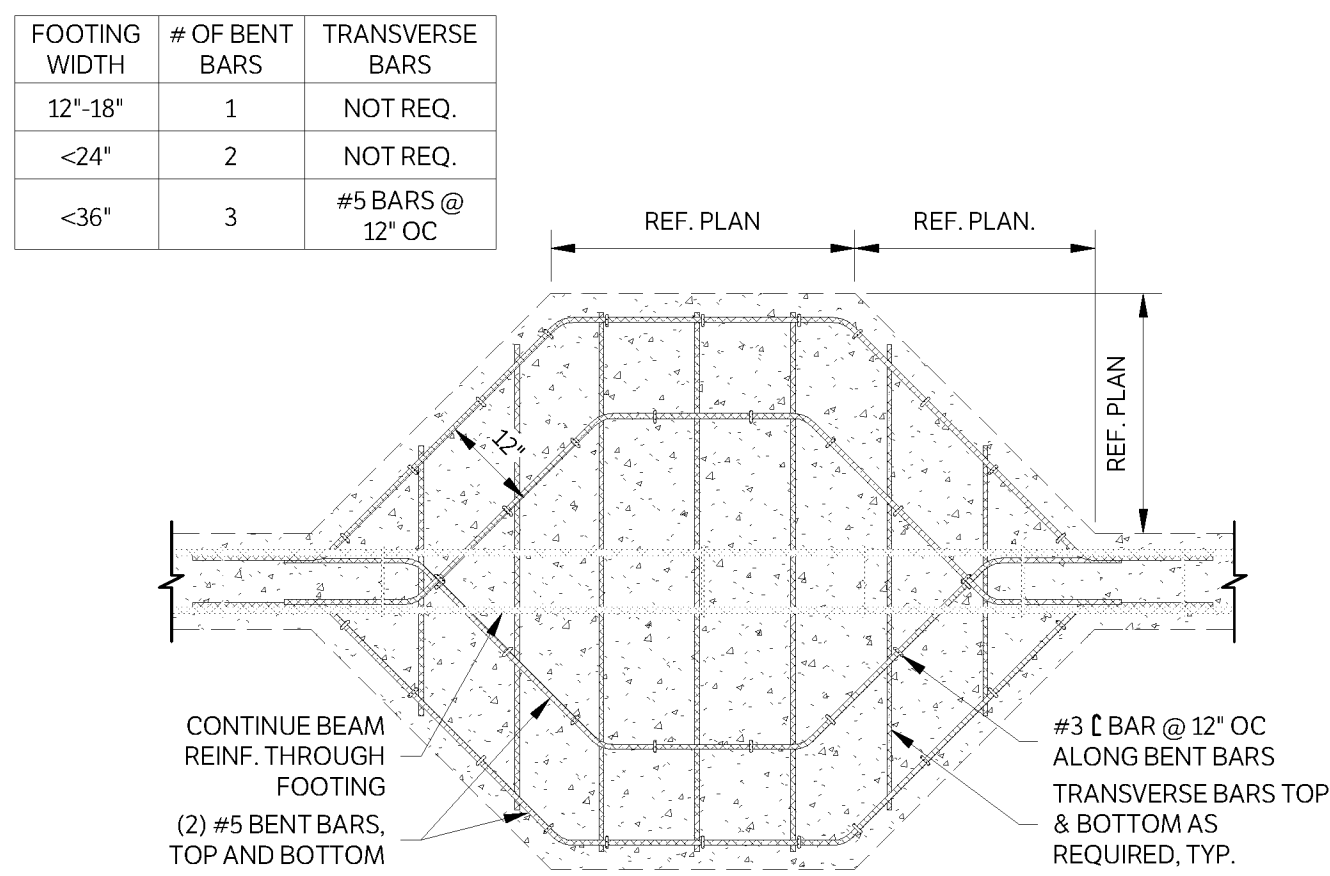


14 THICKENED SLAB UNDER CMU @ STORM SHELTER
N.T.S.

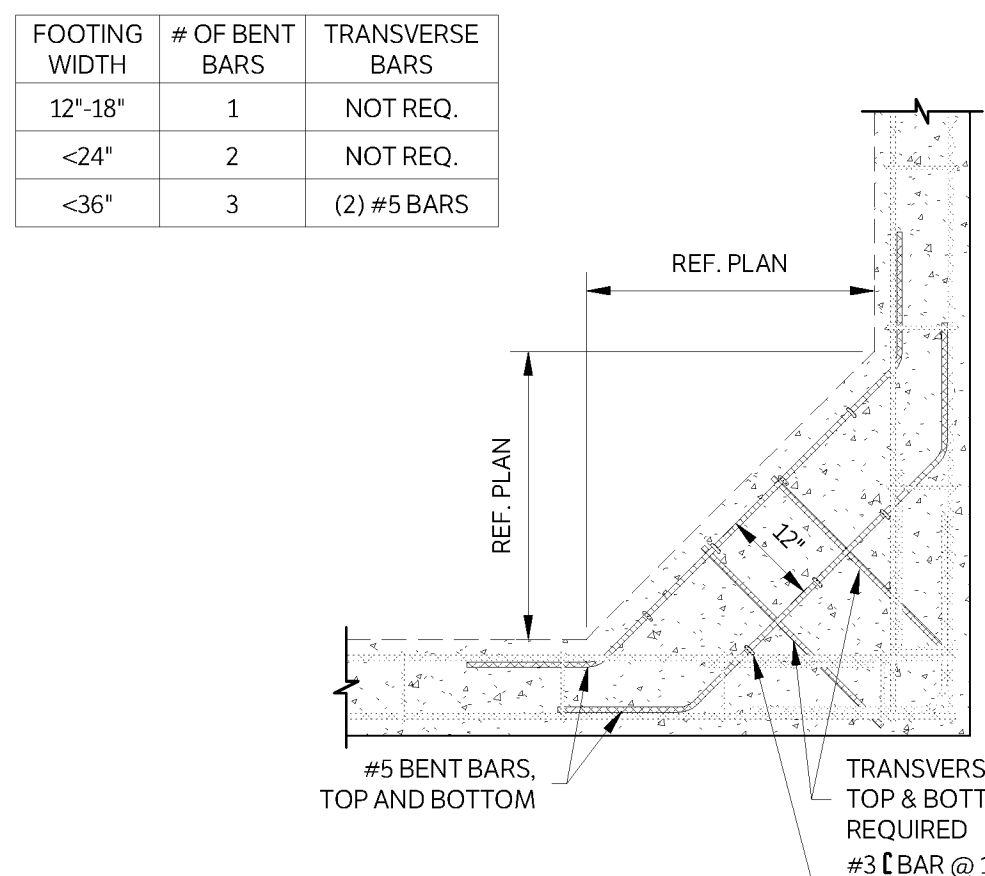
NOTES:
 1. PROVIDE CORNER BARS AS SHOWN AT ALL EXTERIOR BEAM INTERSECTIONS.
 2. THIS IS A SCHEMATIC ONLY. SEE BEAM SECTIONS FOR ACTUAL BEAM REINFORCEMENT. (SLAB NOT SHOWN)



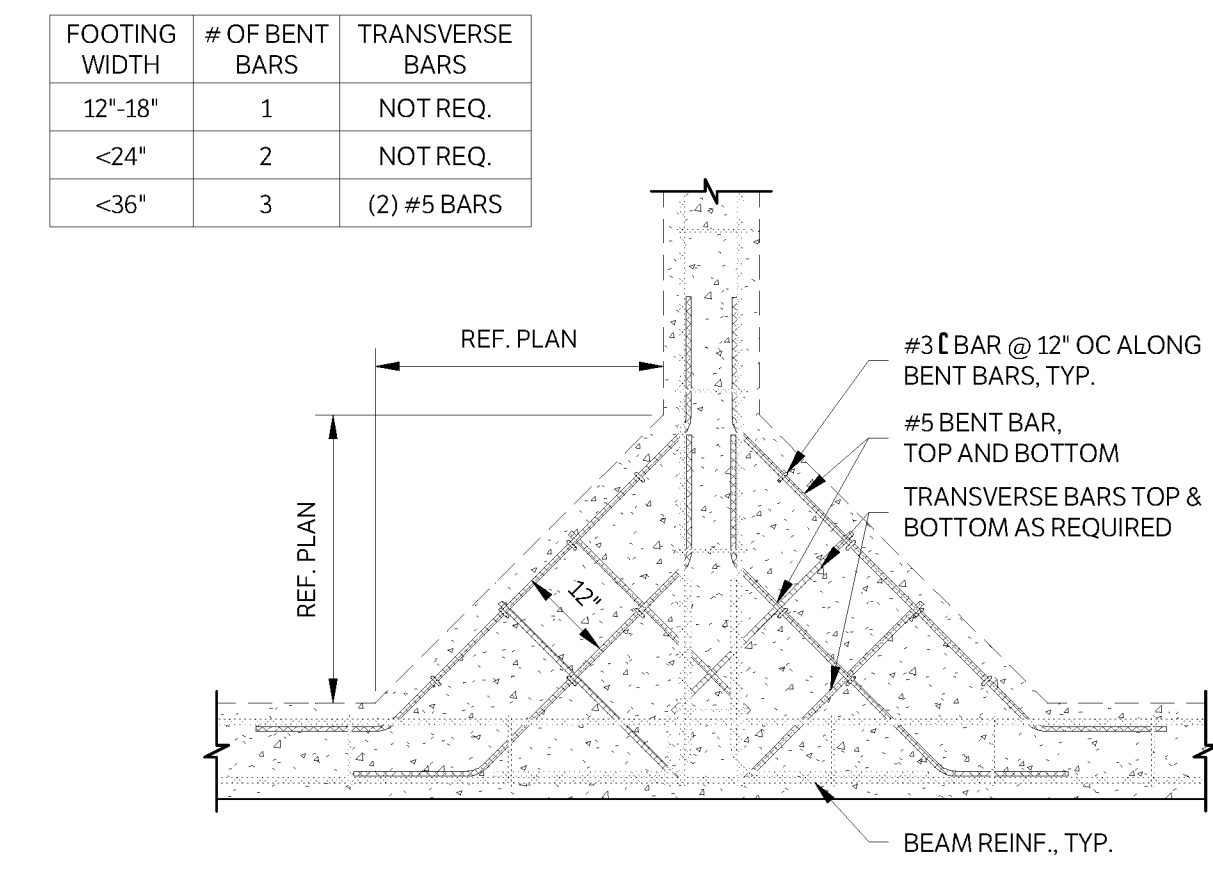
15 GRADE BEAM INTERSECTIONS
N.T.S.



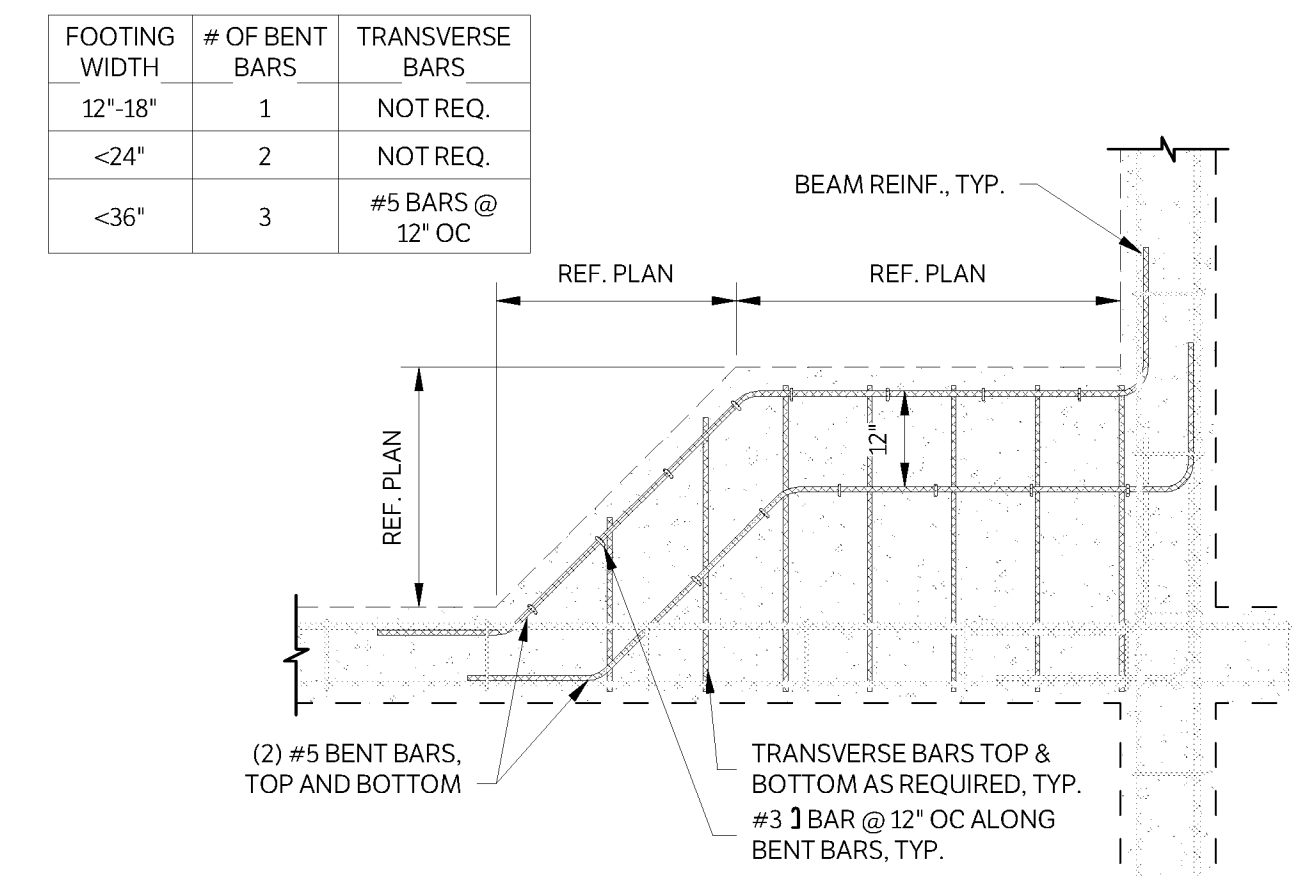
16 FOOTING AT INTERIOR BEAM
N.T.S.



17 FOOTING AT EXTERIOR CORNER
N.T.S.

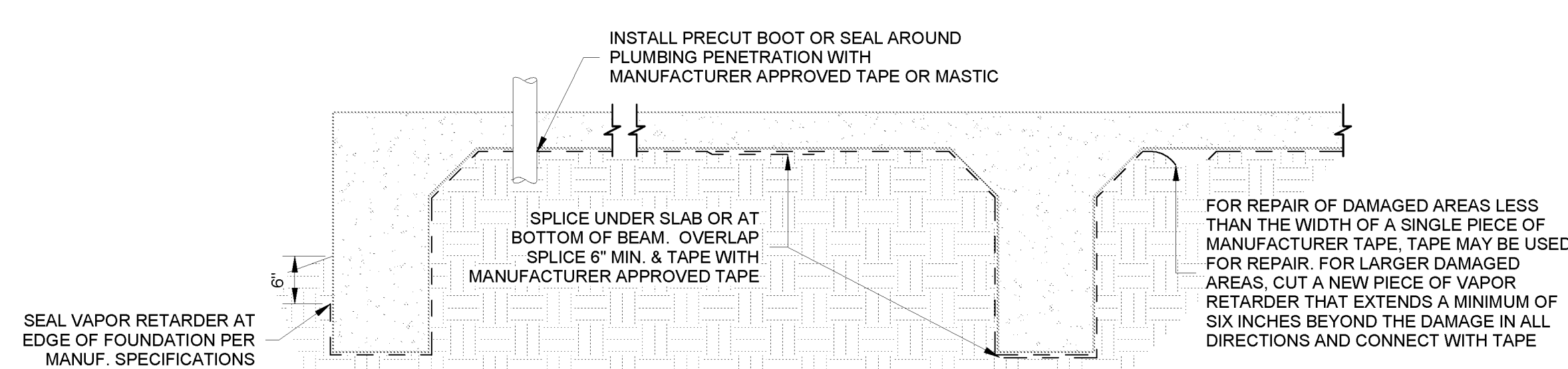


18 FOOTING AT EXTERIOR INTERSECTION
N.T.S.



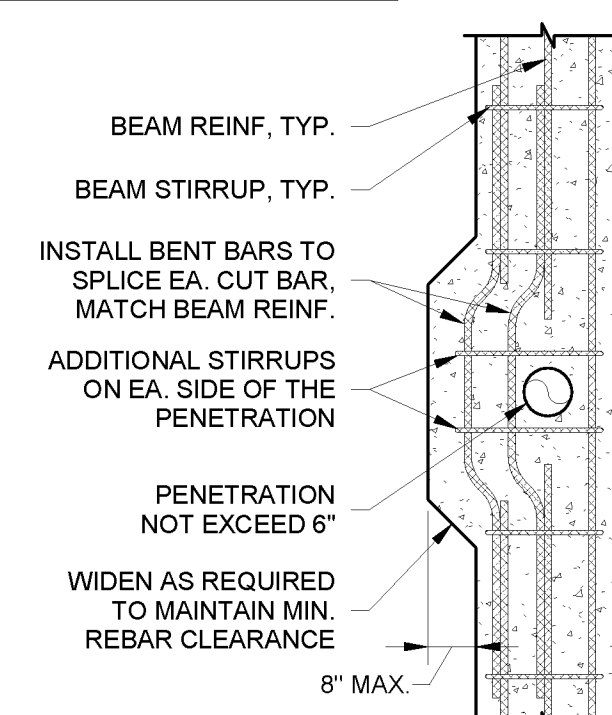
19 FOOTING AT INTERIOR CORNER W/ OFFSET
N.T.S.

NOTE: VAPOR RETARDER AS DETAILED TO BE INSTALLED BELOW ALL FOUNDATION CONCRETE



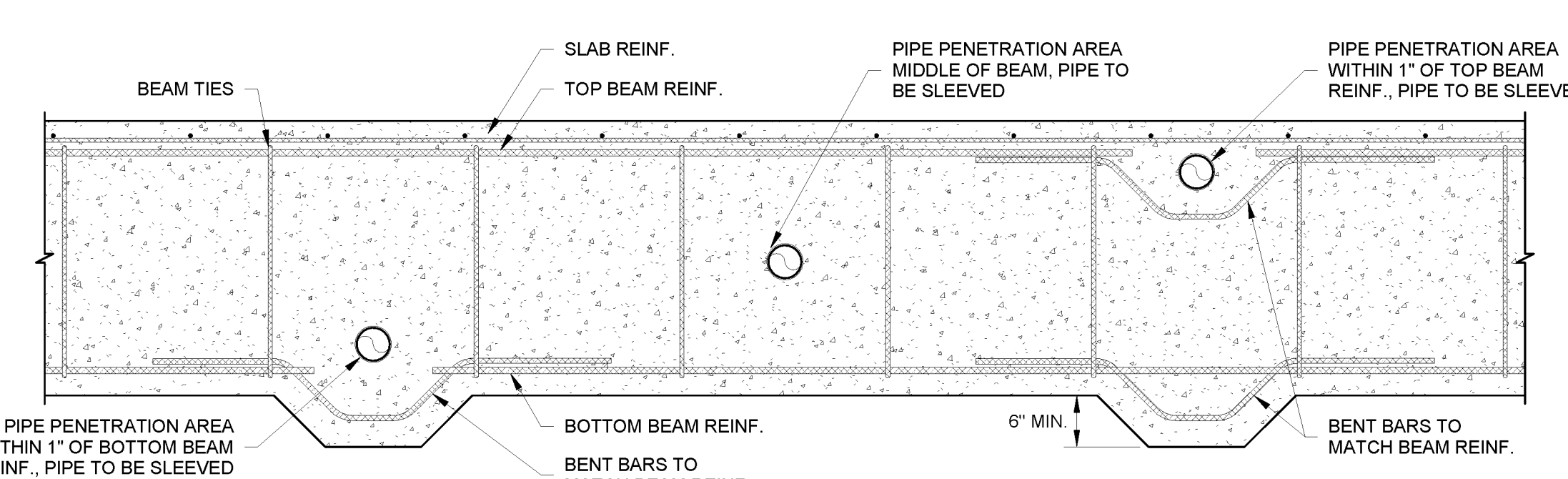
20 VAPOR RETARDER DETAIL
N.T.S.

NOTE: IF PIPE PENETRATION OCCURS CENTER OF THE BEAM & THE PIPE W/ SLEEVE DIMENSION IS LESS THAN 6", THE CONTRACTOR MAY:
 1. NOT WIDEN THE BEAM.
 2. REPLACE BENT BARS W/ (2) 48" DOWEL EACH SIDE OF PIPE.

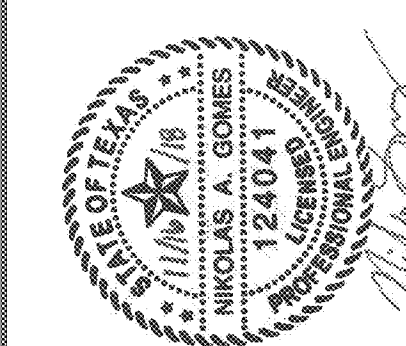
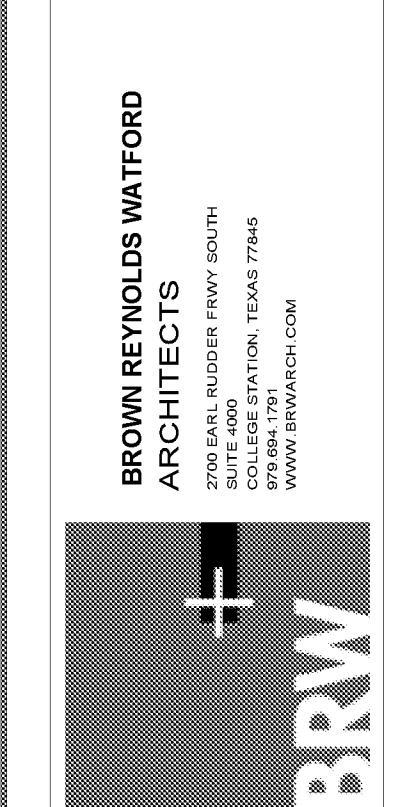


21 BEAM PENETRATION VERTICAL
N.T.S.

NOTES: WHEN PIPE SLEEVE IS WITHIN 1" OF BEAM REINF. BEAM REINF. SHALL BE STOPPED AND BENT BARS ADDED AS SHOWN BELOW.



22 BEAM PENETRATION DETAIL
N.T.S.



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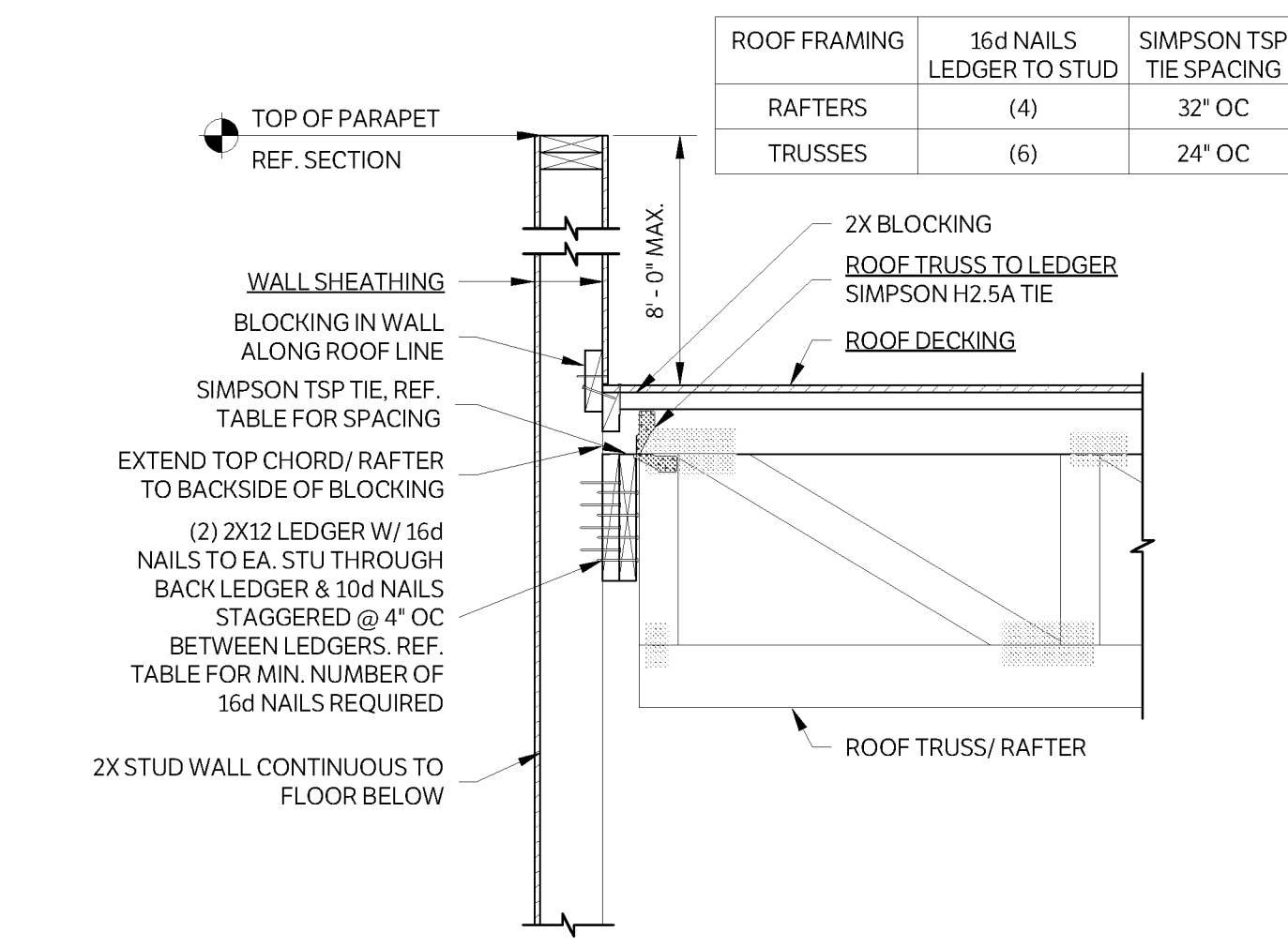


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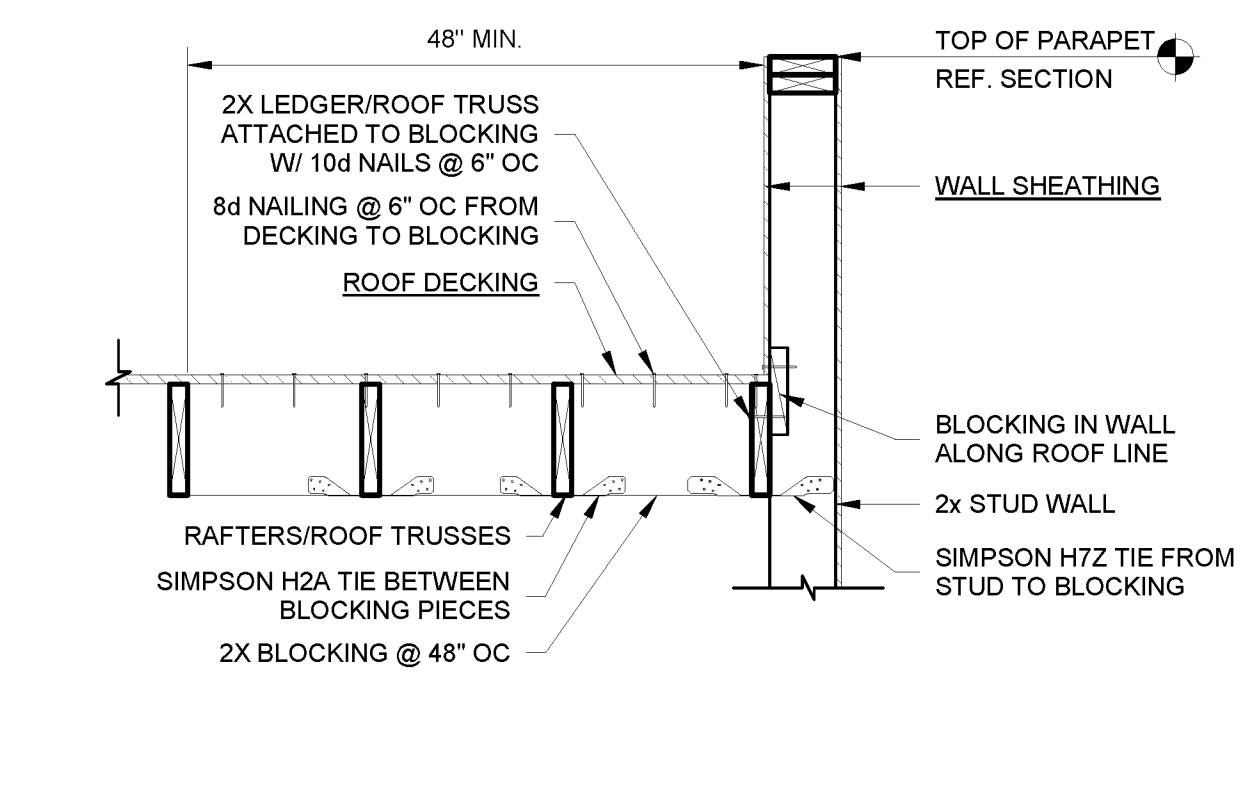
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NO.	DESCRIPTION	DATE

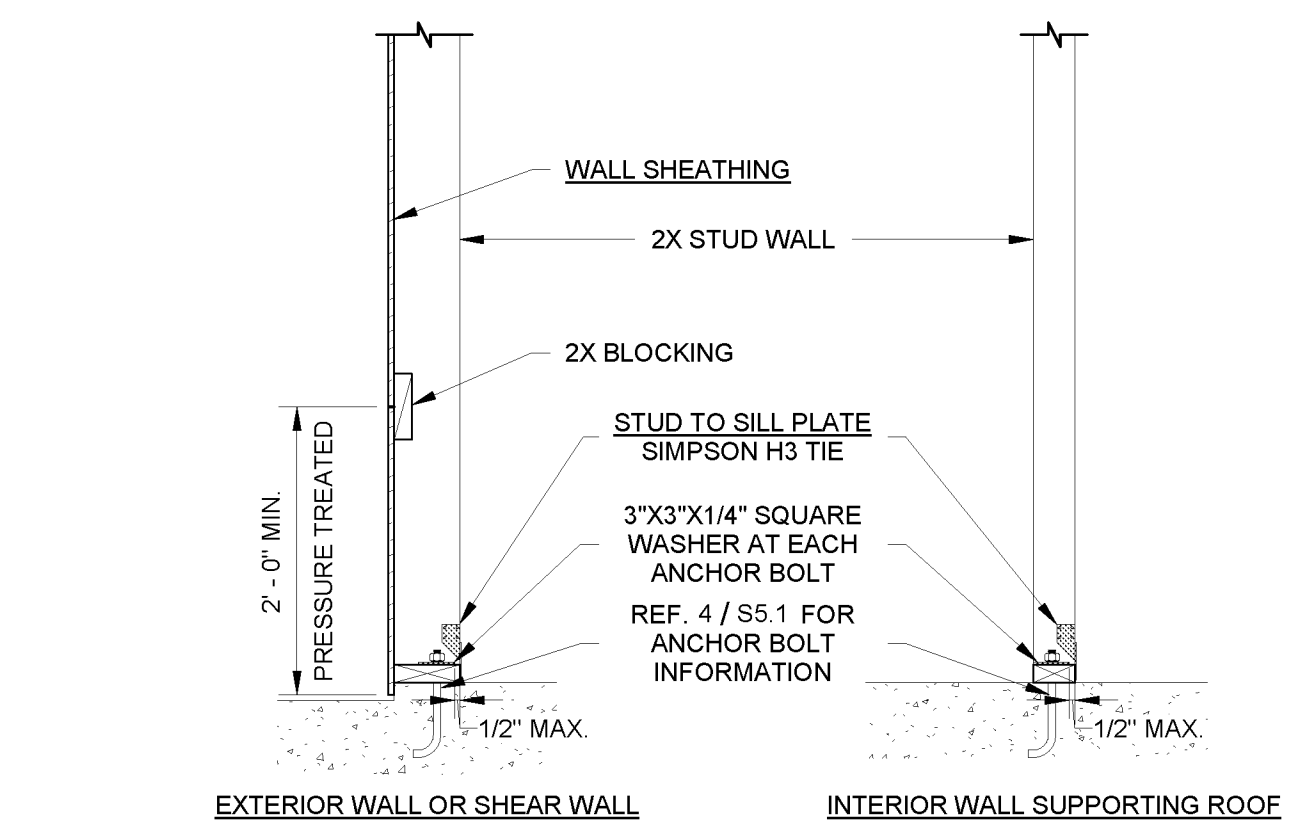
GENERAL DETAIL NOTES:
 1. REFERENCE ARCHITECTURAL PLANS FOR OVERHANG CONDITIONS.
 2. REFERENCE PANEL TABLE ON FRAMING PLAN SHEETS FOR WALL SHEATHING, ROOF DECKING, AND FLOOR DECKING. GRADE, PANEL THICKNESS, AND NAILING.
 3. REFERENCE UPLIFT CONNECTION TABLE FOR RAFTER/ROOF TRUSS TO TOP PLATE, TOP PLATE TO STUD, FLOOR TO FLOOR, AND STUD TO SILL PLATE CONNECTION SPACINGS.



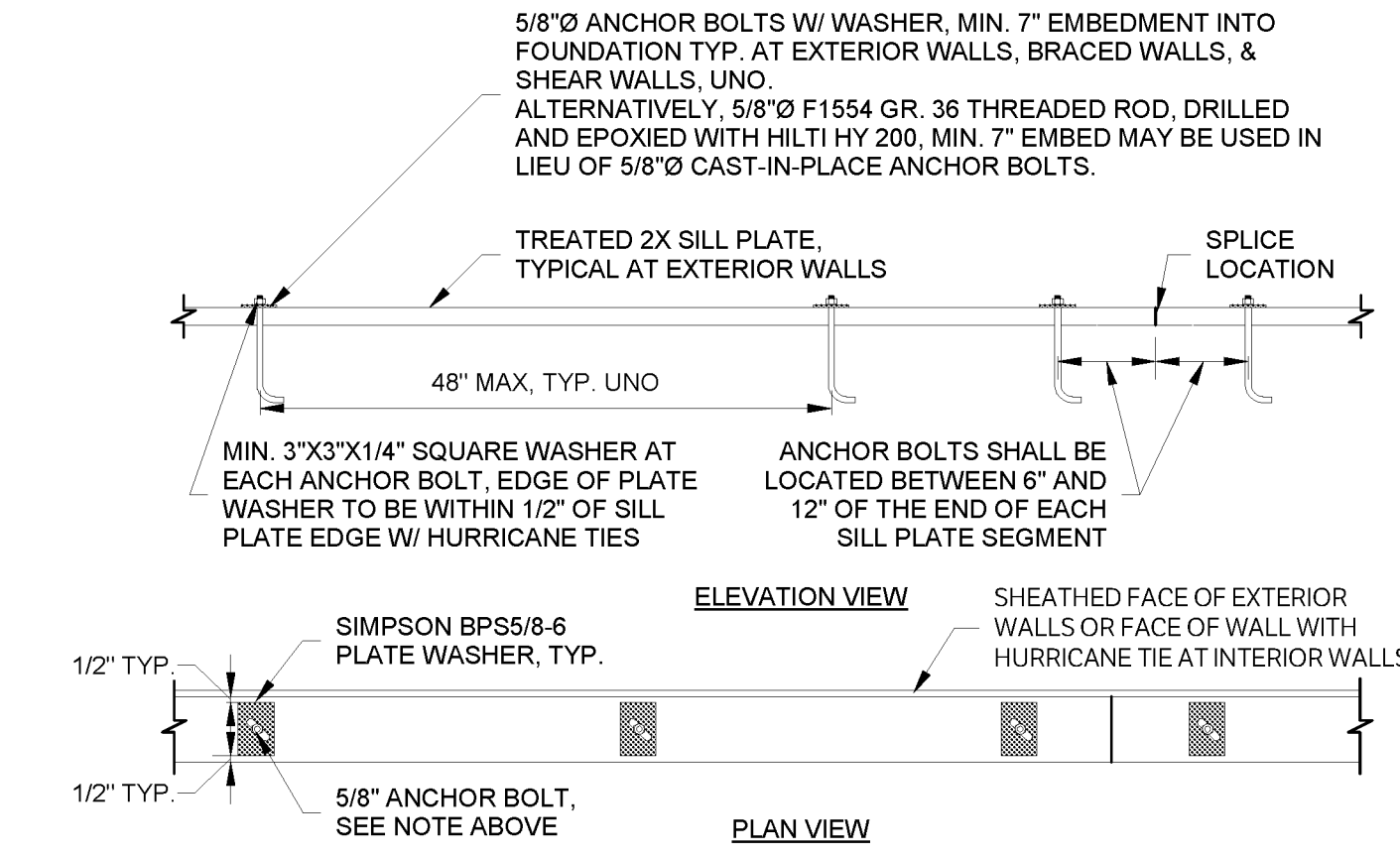
1. ROOF TRUSS PERPENDICULAR TO WALL N.T.S.



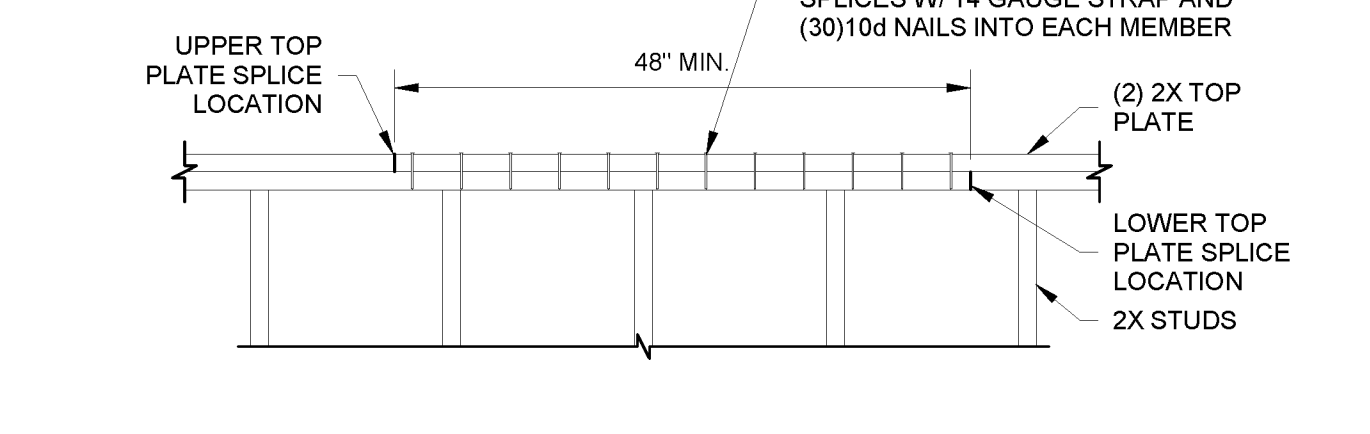
2. TYPICAL ROOF PARALLEL TO STUD WALL N.T.S.



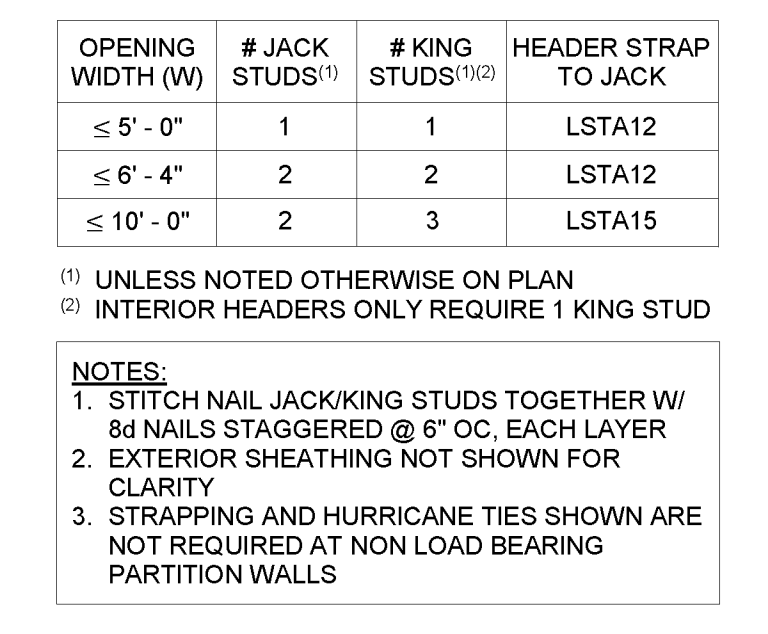
3. WALL TO CONCRETE FOUNDATION N.T.S.



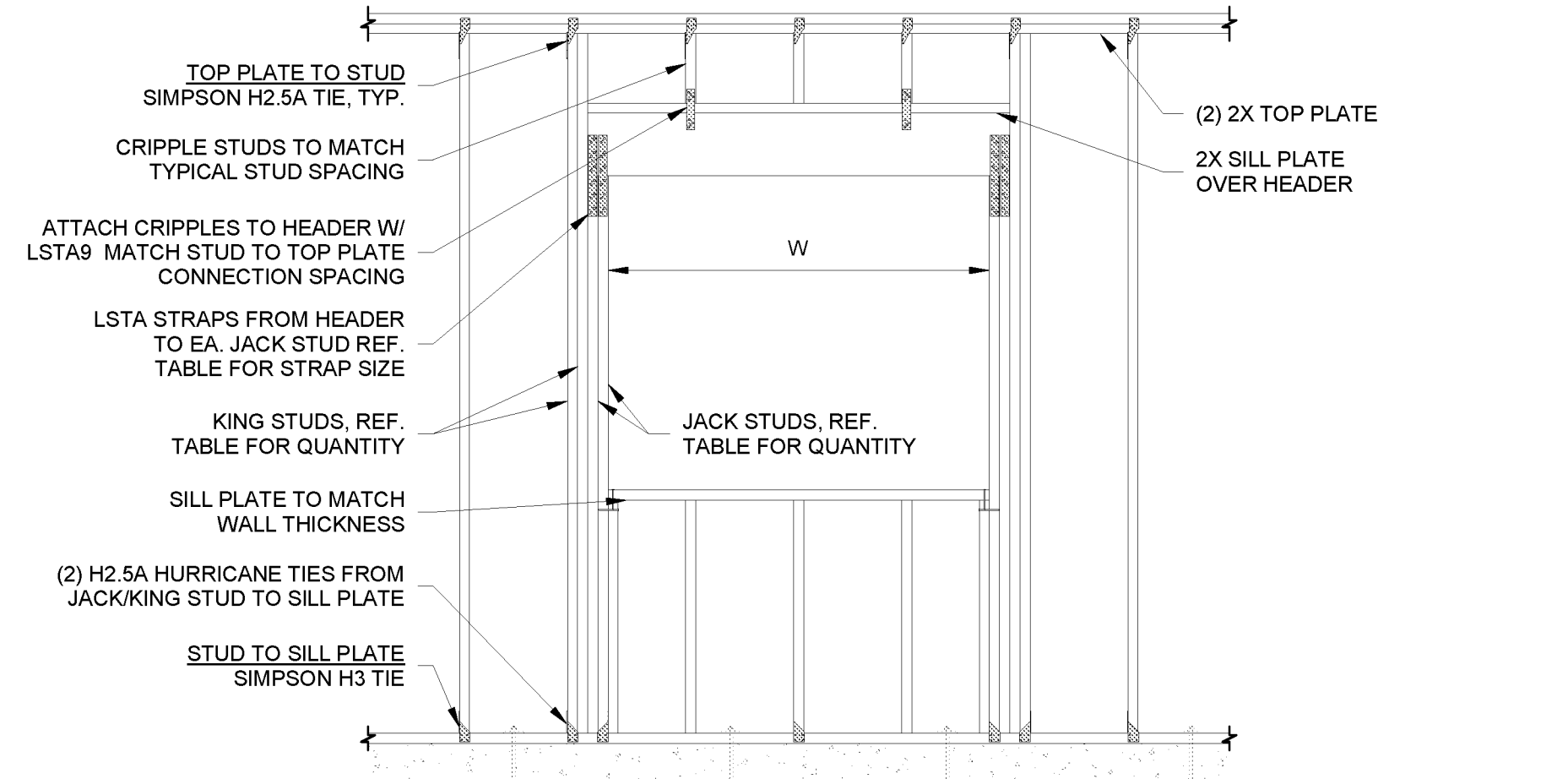
4. ANCHOR BOLT DETAIL N.T.S.



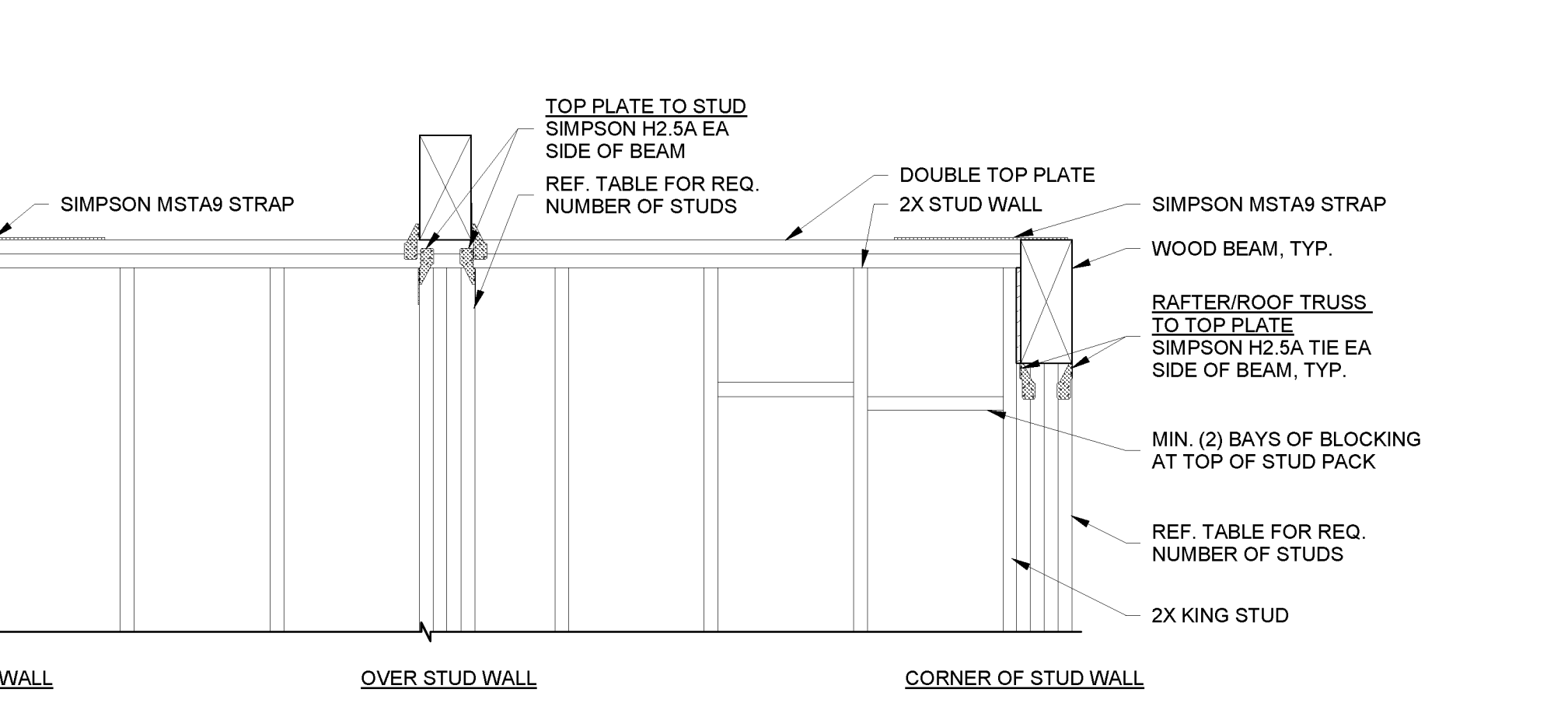
5. TOP PLATE SPLICE N.T.S.



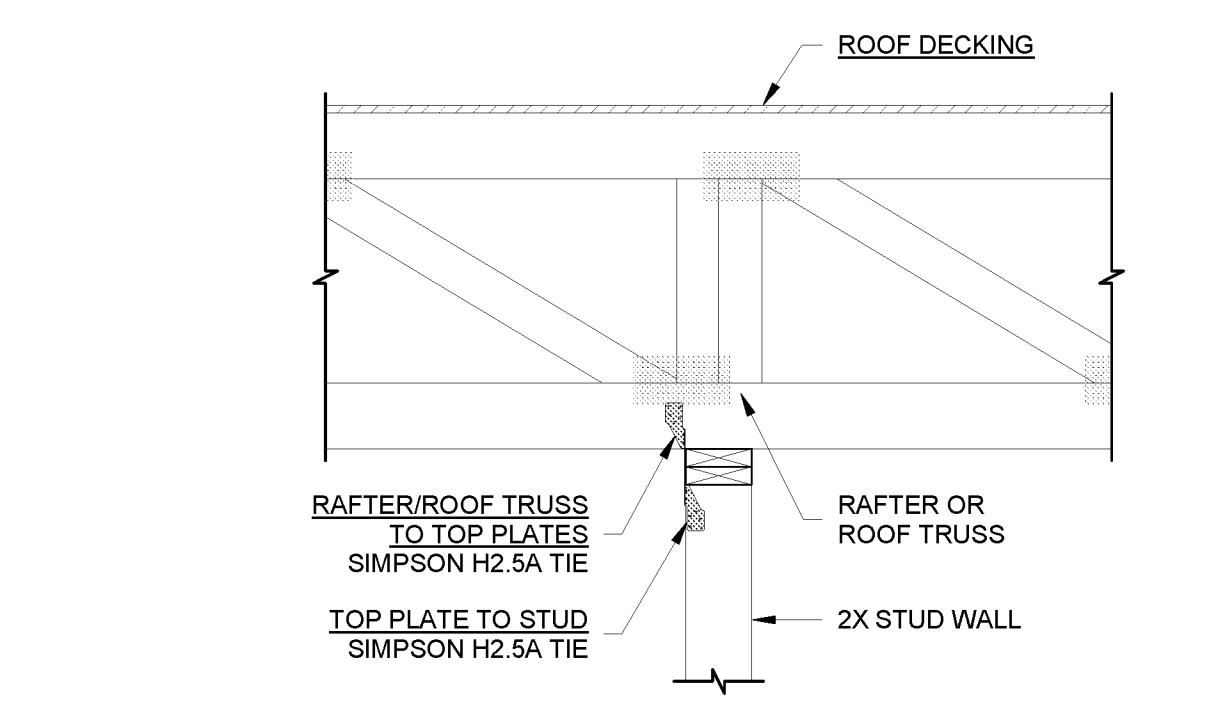
6. HEADER FRAMING DETAIL N.T.S.



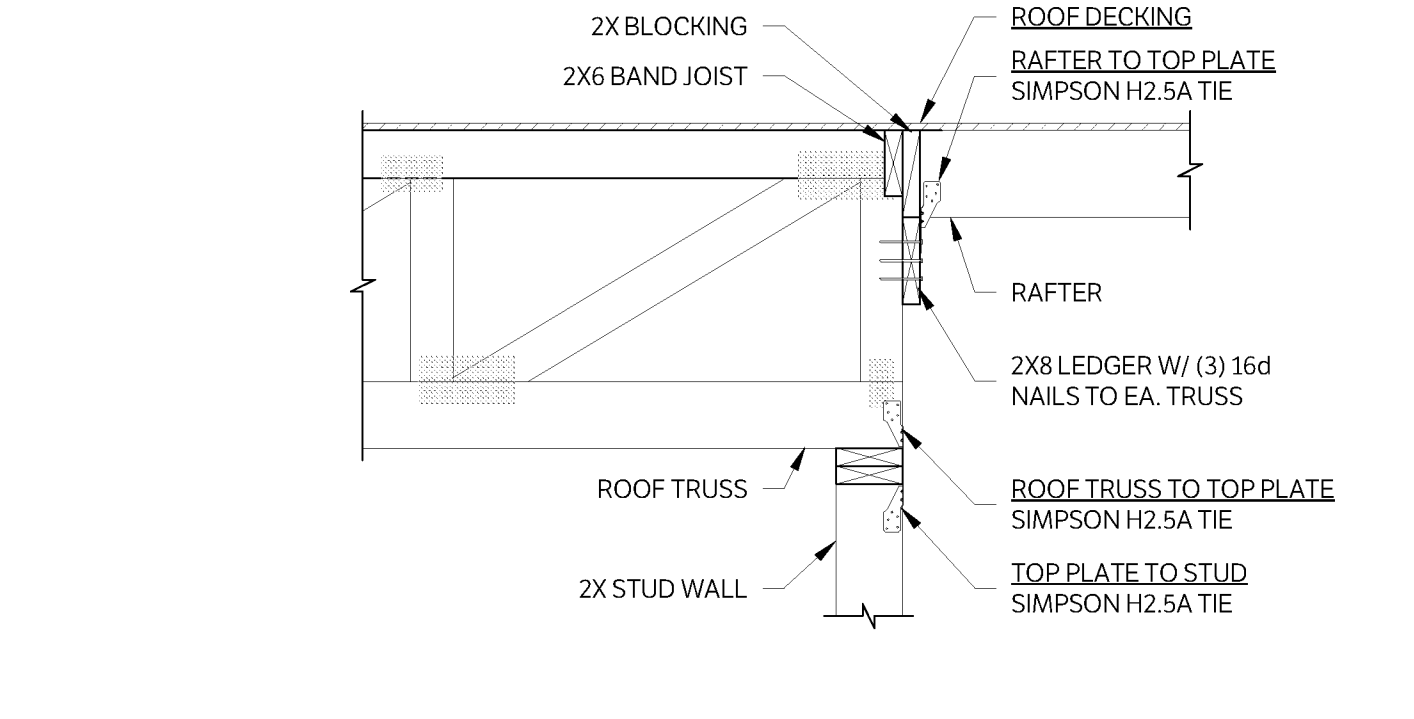
7. BEAM TO BUILT UP STUD COLUMN N.T.S.



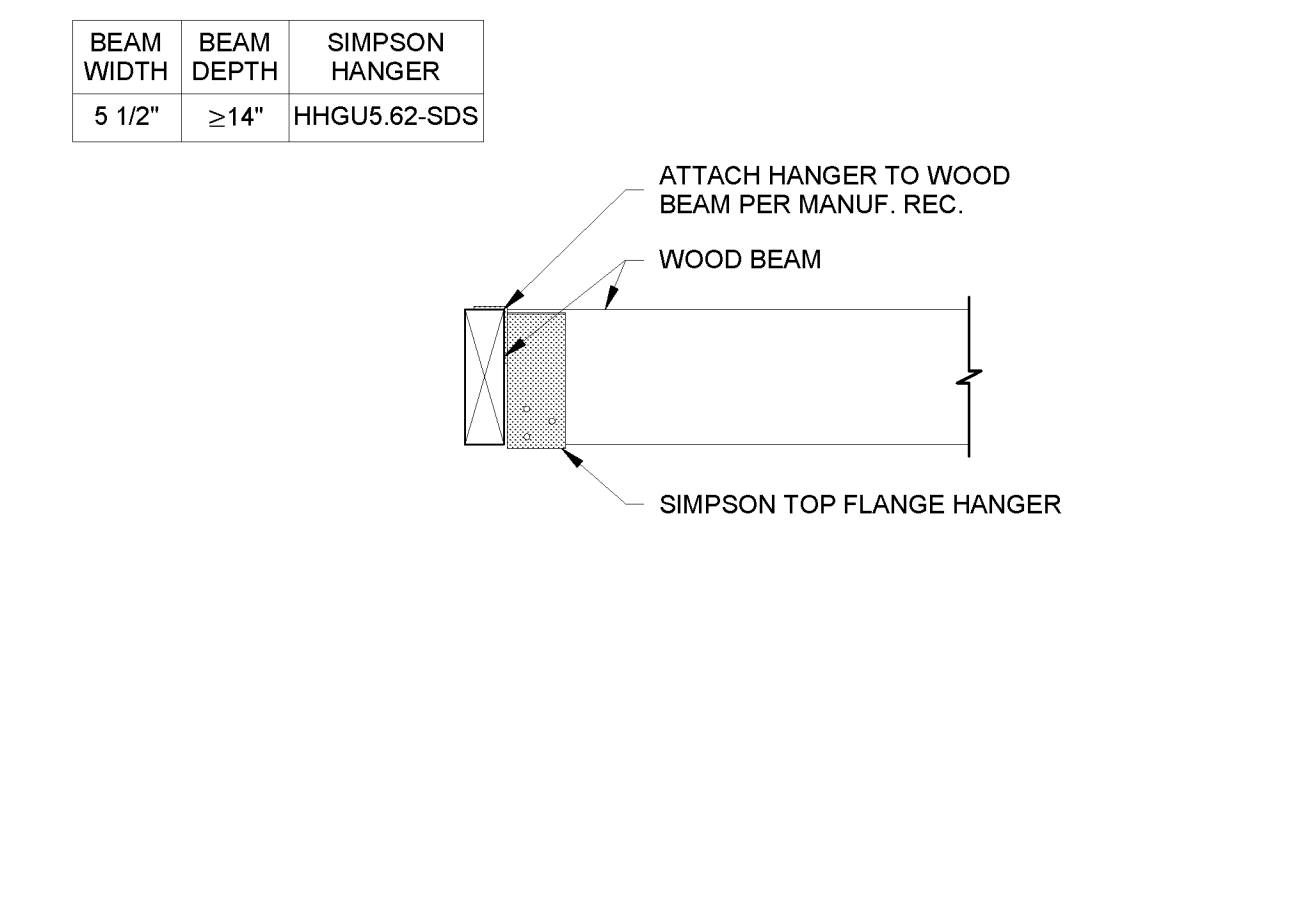
8. NON BEARING PARTITION WALL TO TRUSS FRAMING N.T.S.



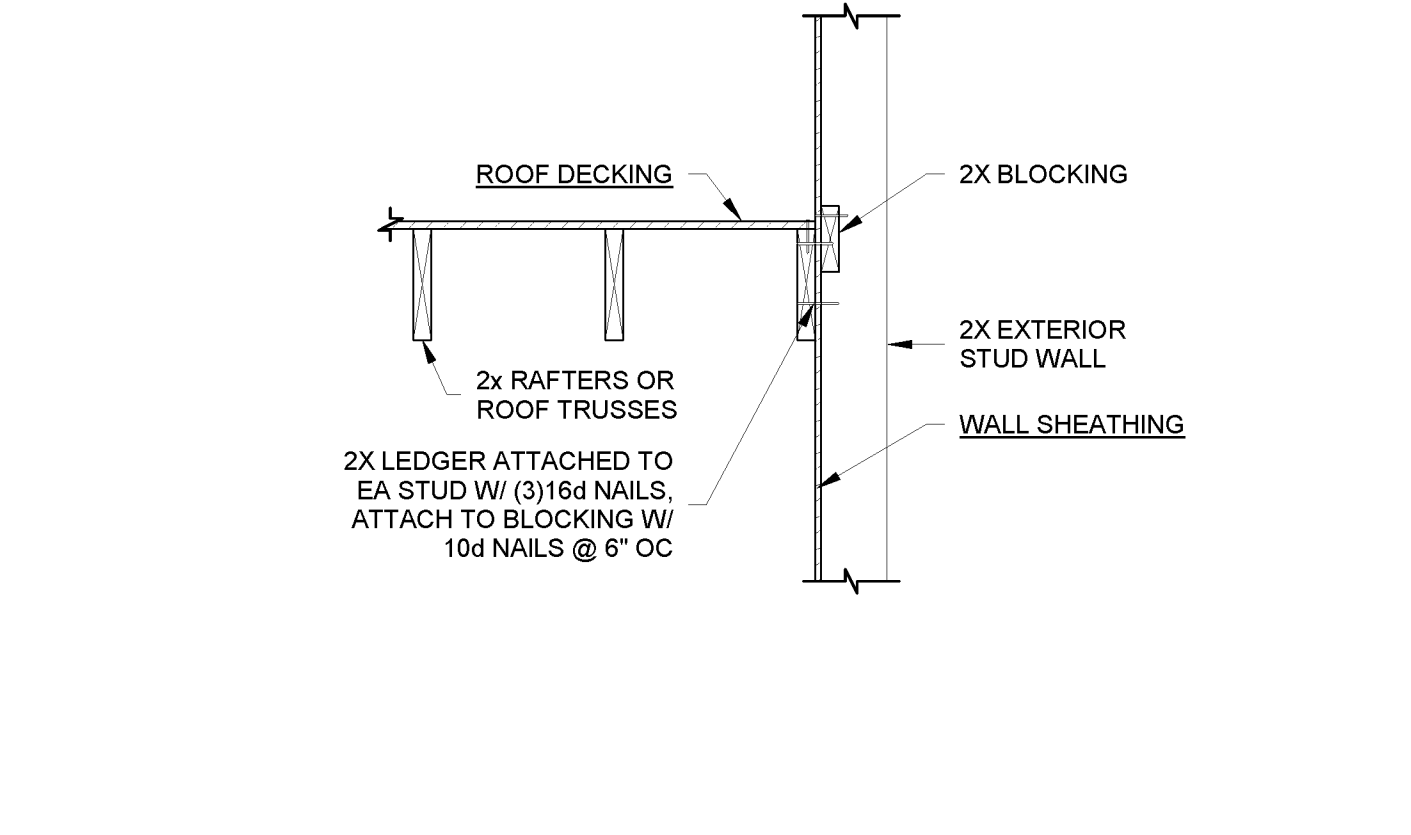
9. ROOF TRUSS TO INTERIOR BEARING WALL SECTION N.T.S.



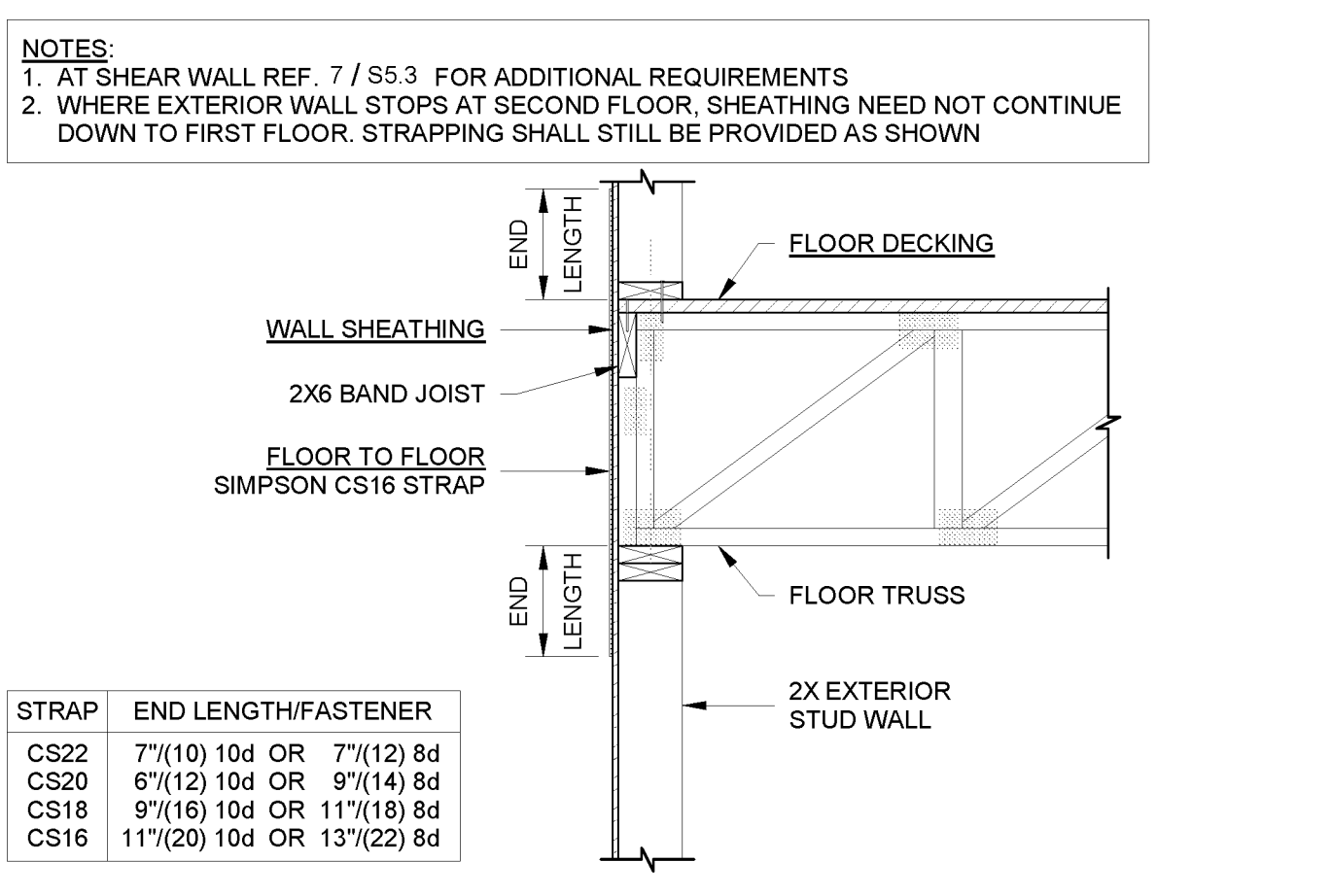
10. ROOF TRUSS TO RAFTER TRANSITION N.T.S.



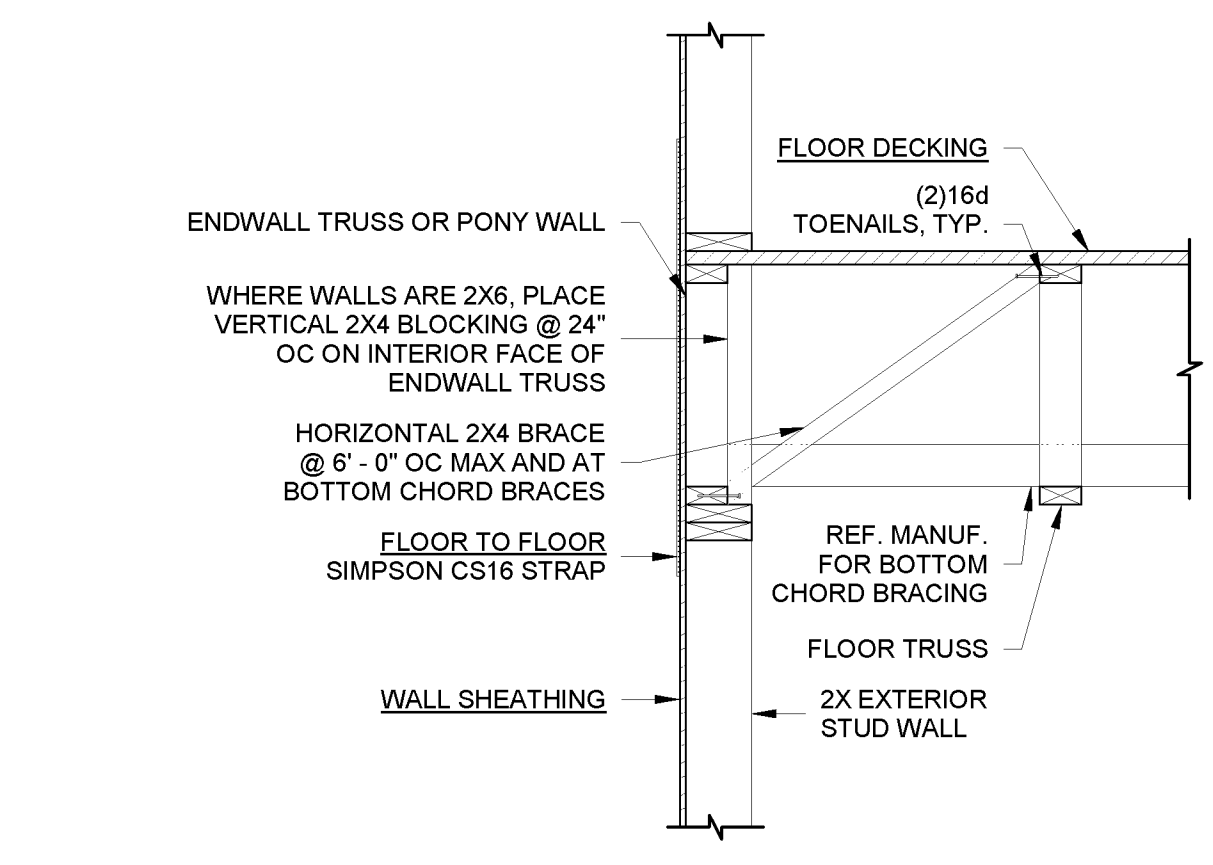
11. BEAM TO BEAM (HANGING CONNECTION) N.T.S.



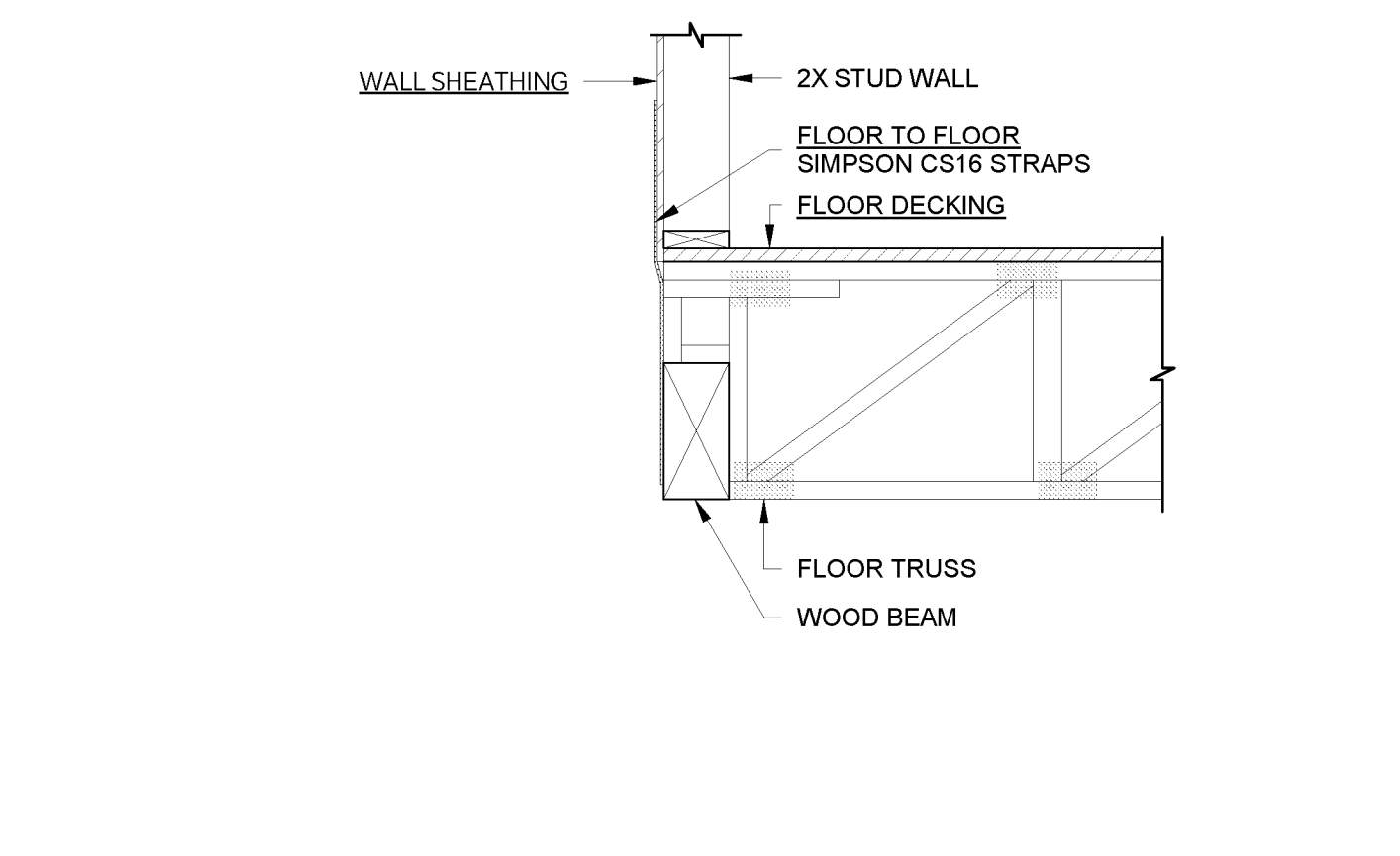
12. RAFTER FRAMING PARALLEL TO EXTERIOR WALL N.T.S.



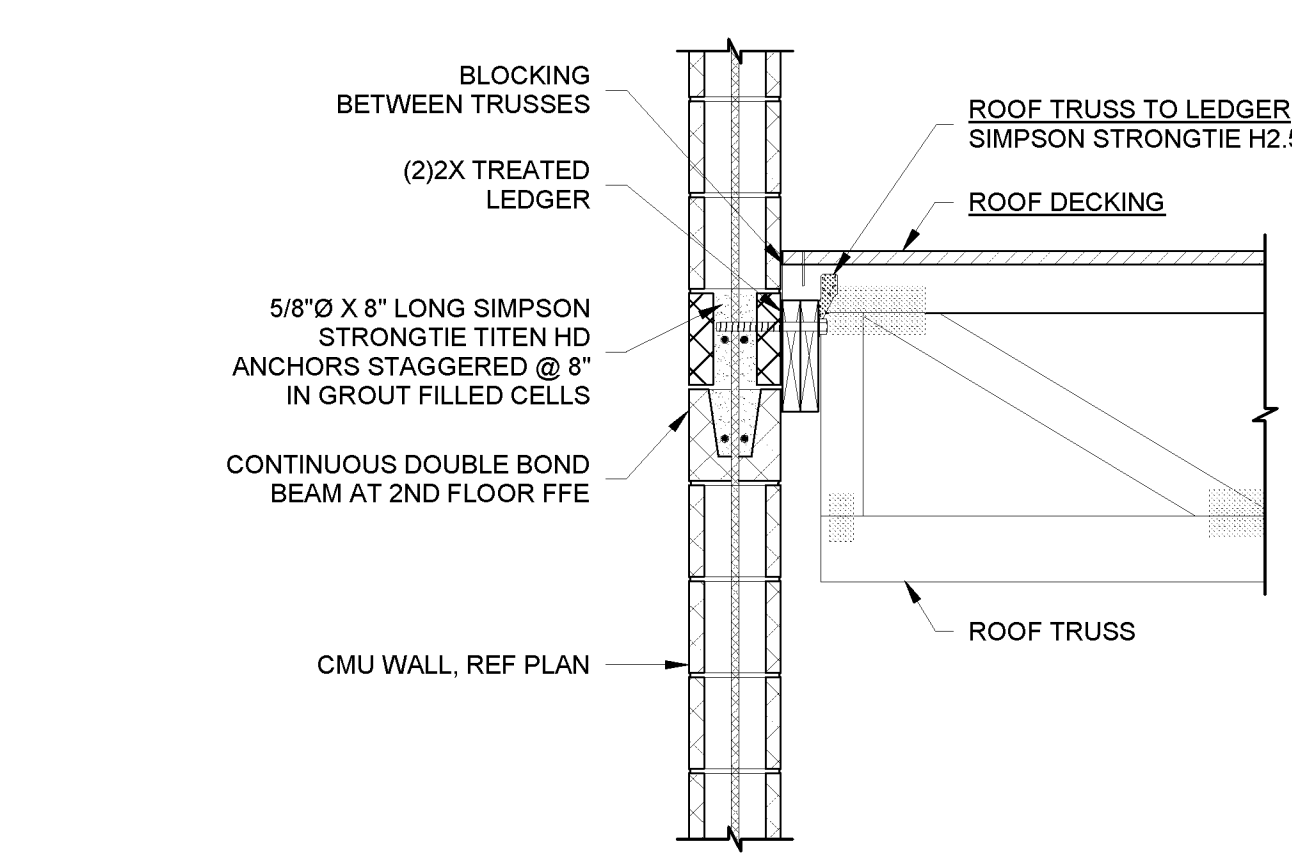
13. FLOOR TRUSS PERPENDICULAR TO EXTERIOR WALL N.T.S.



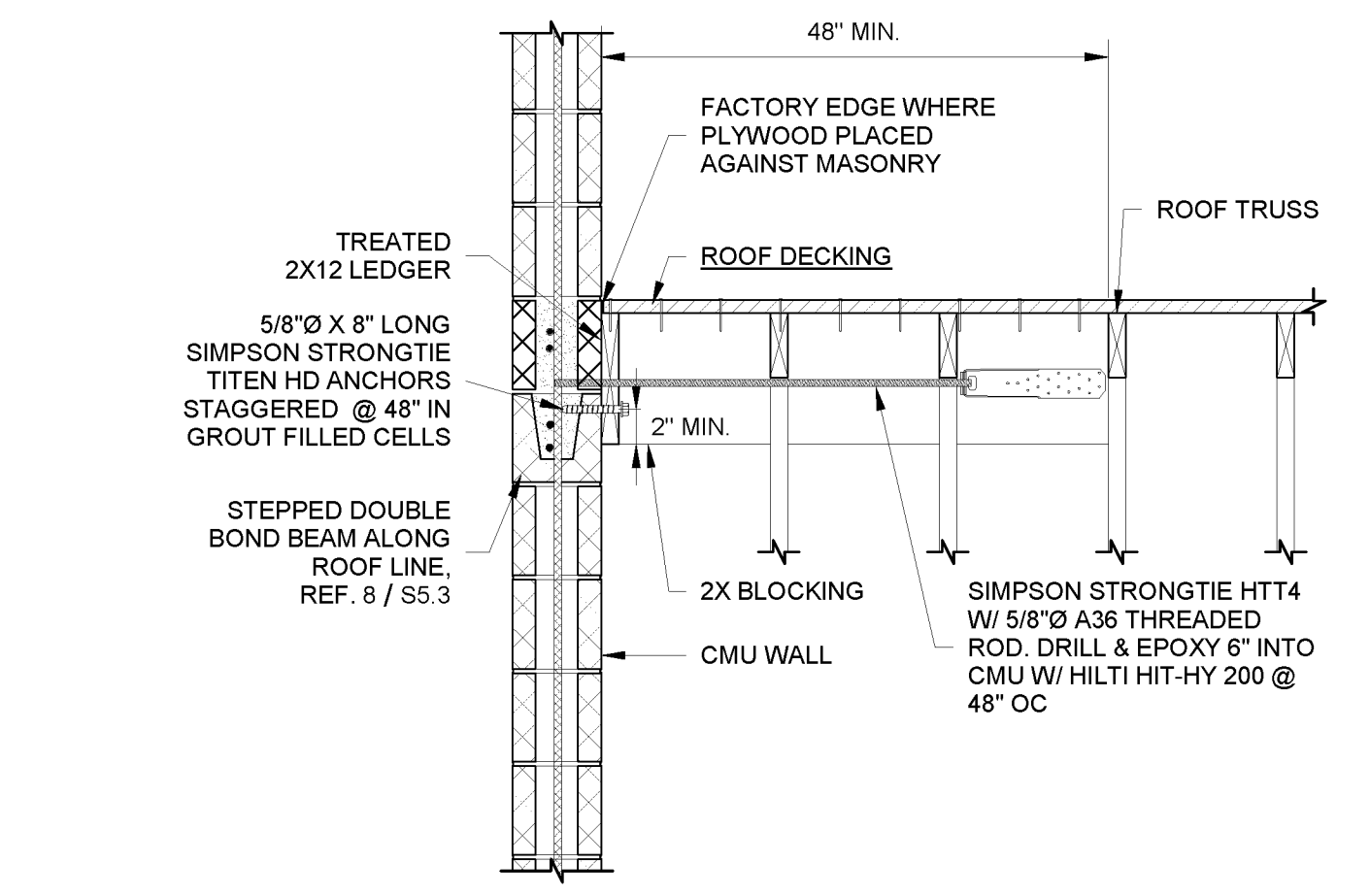
14. TRUSSES PARALLEL TO EXTERIOR WALL N.T.S.



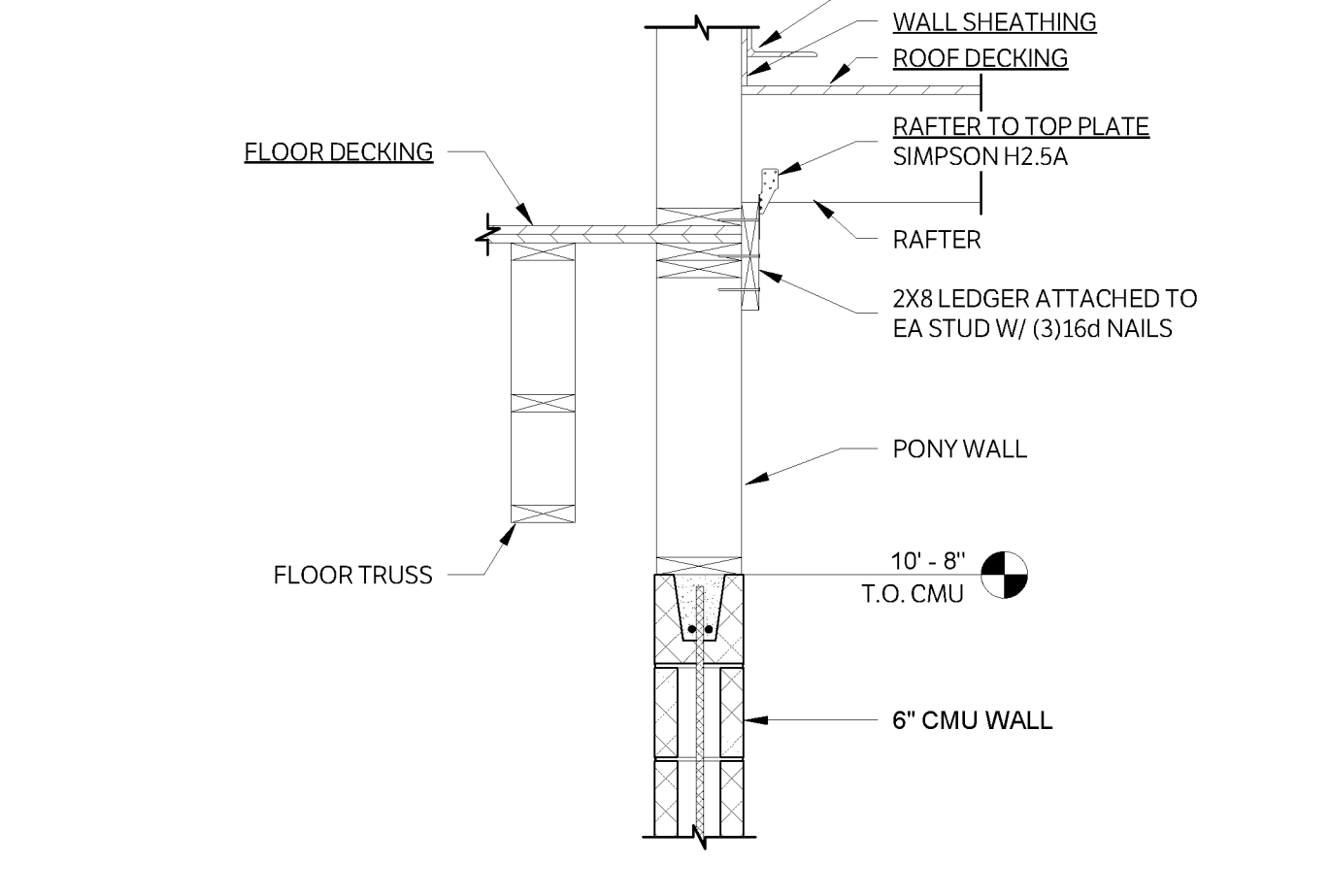
15. FLOOR TRUSS AND WALL TO BEAM N.T.S.



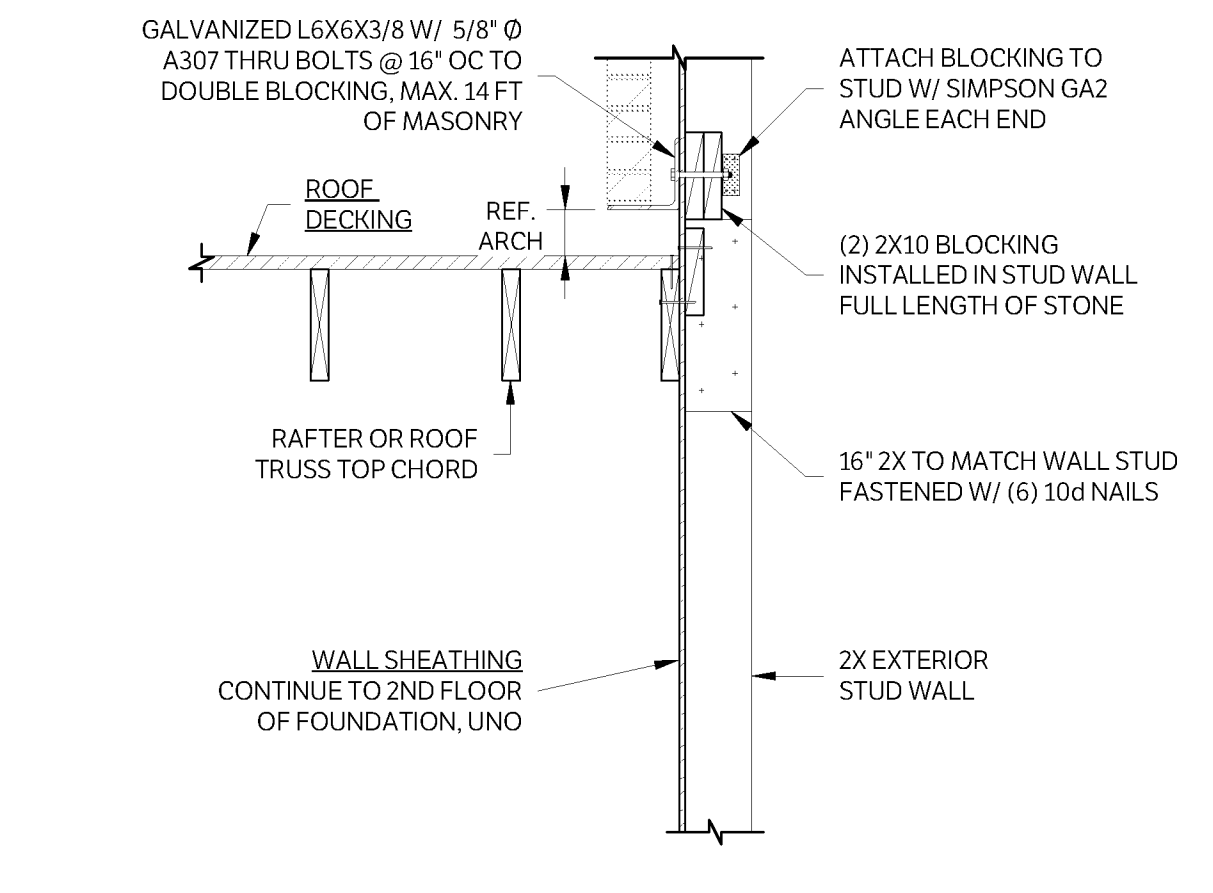
16. ROOF TRUSS PERPENDICULAR TO CMU WALL N.T.S.



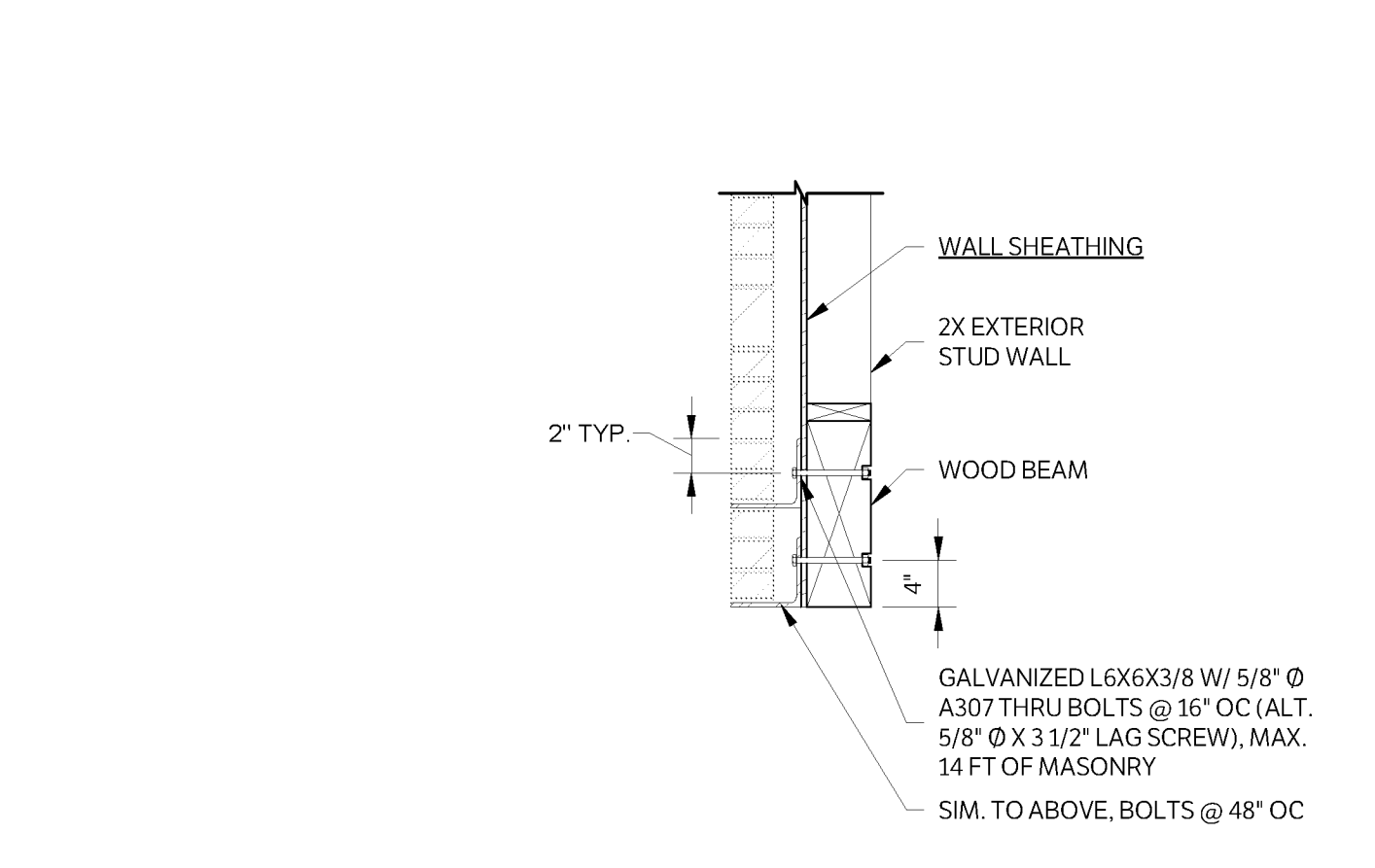
17. ROOF PARALLEL TO CMU WALL N.T.S.



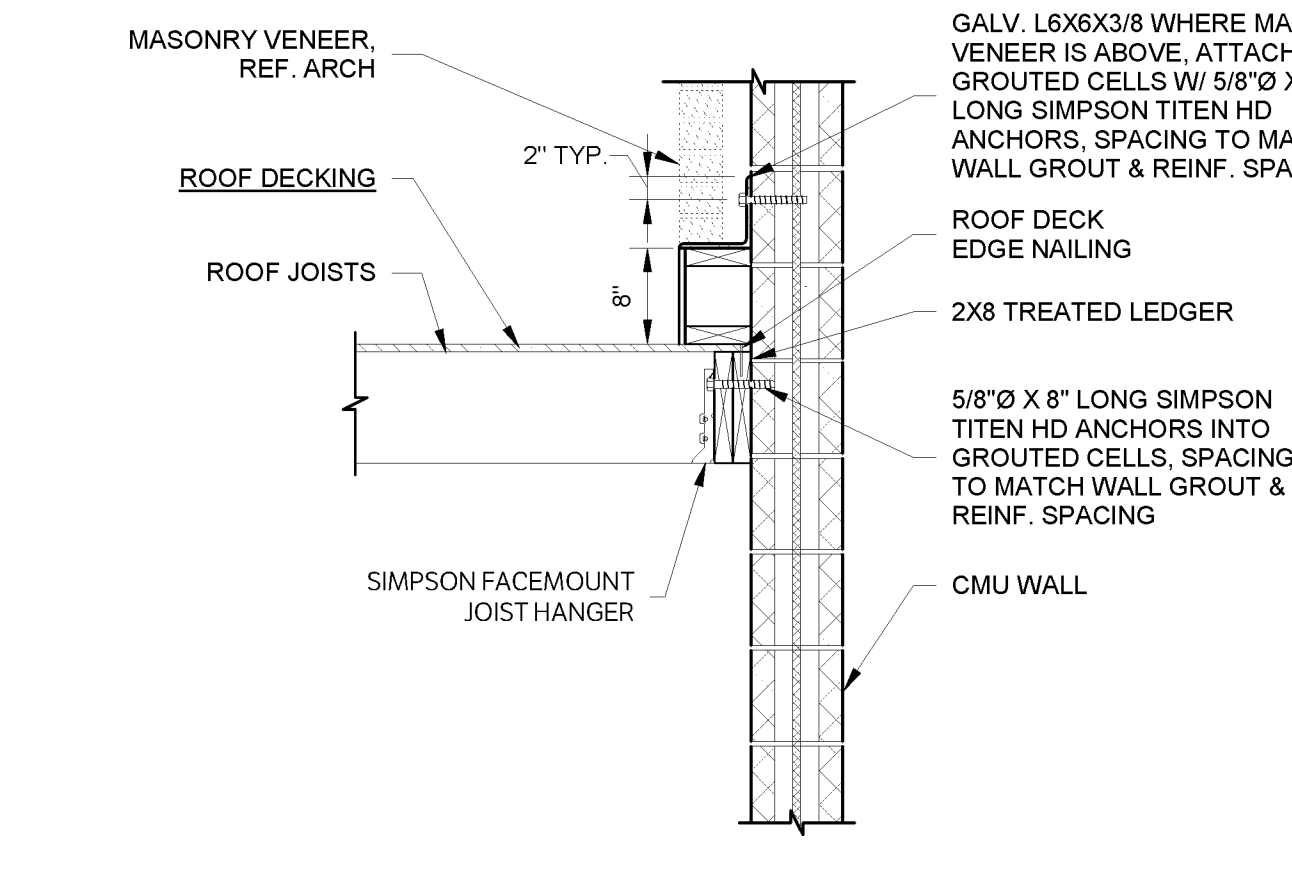
18. PONY WALL ABOVE CMU WALL N.T.S.



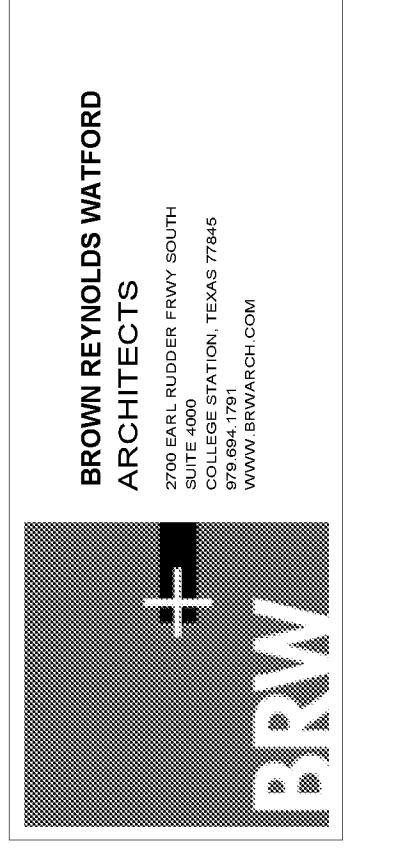
19. STONE LINTEL TO STUD WALL OVER ROOF N.T.S.



20. WOOD BEAM SUPPORTED MASONRY LINTEL N.T.S.



21. ROOF TRANSITION AT CMU N.T.S.



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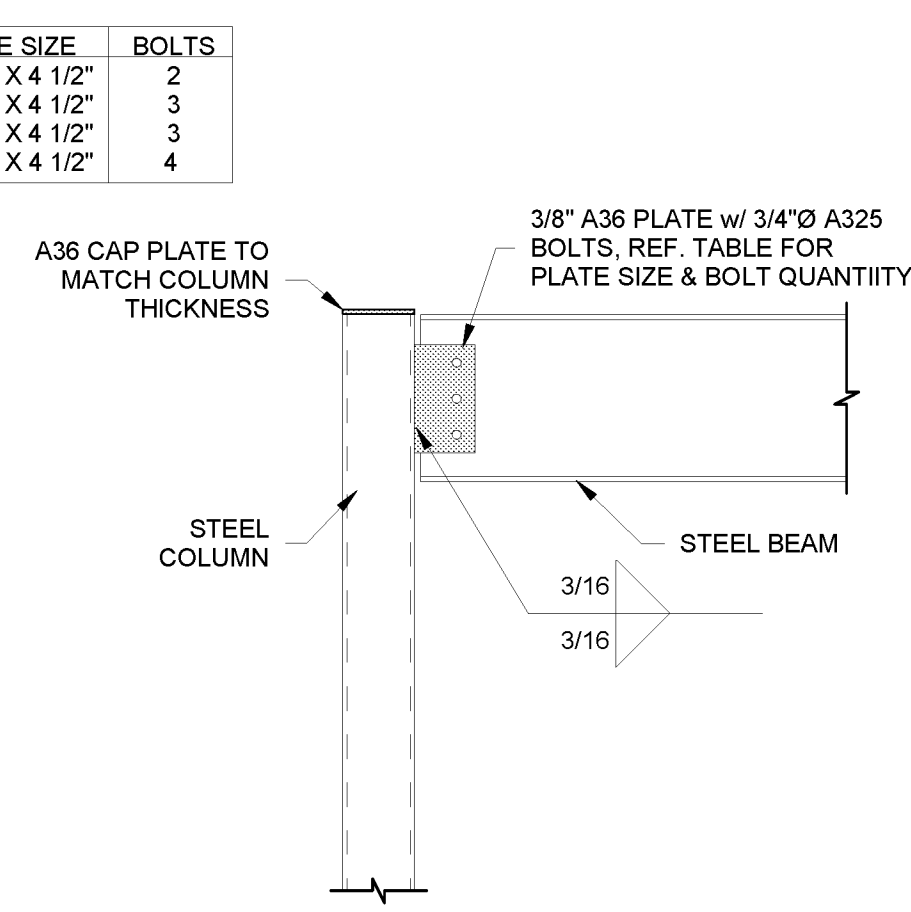


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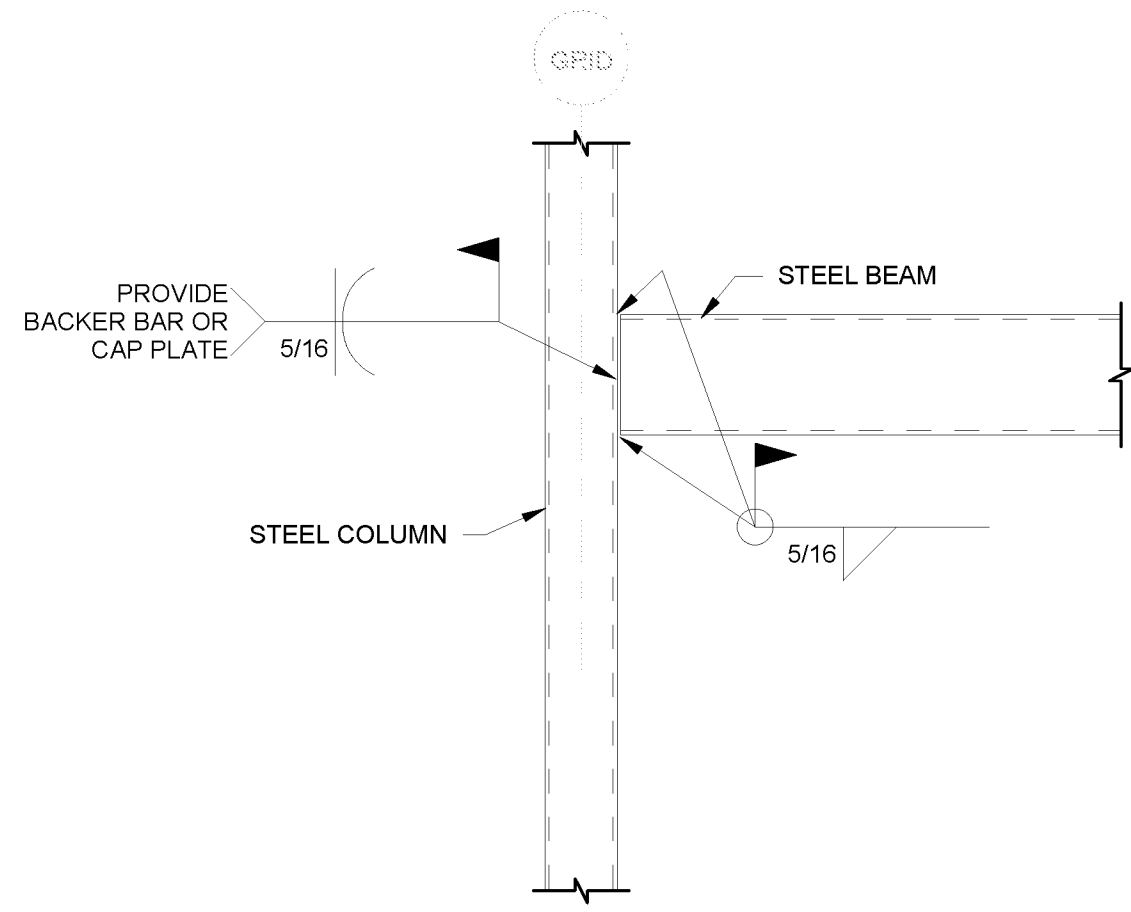
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 GEORGETOWN, TX 78626

NO.	DESCRIPTION	DATE

BEAM SIZE	PLATE SIZE	BOLTS
W10x	5 1/2" X 4 1/2"	2
W12x	8 1/2" X 4 1/2"	3
W14x	8 1/2" X 4 1/2"	3
W16x	11 1/2" X 4 1/2"	4



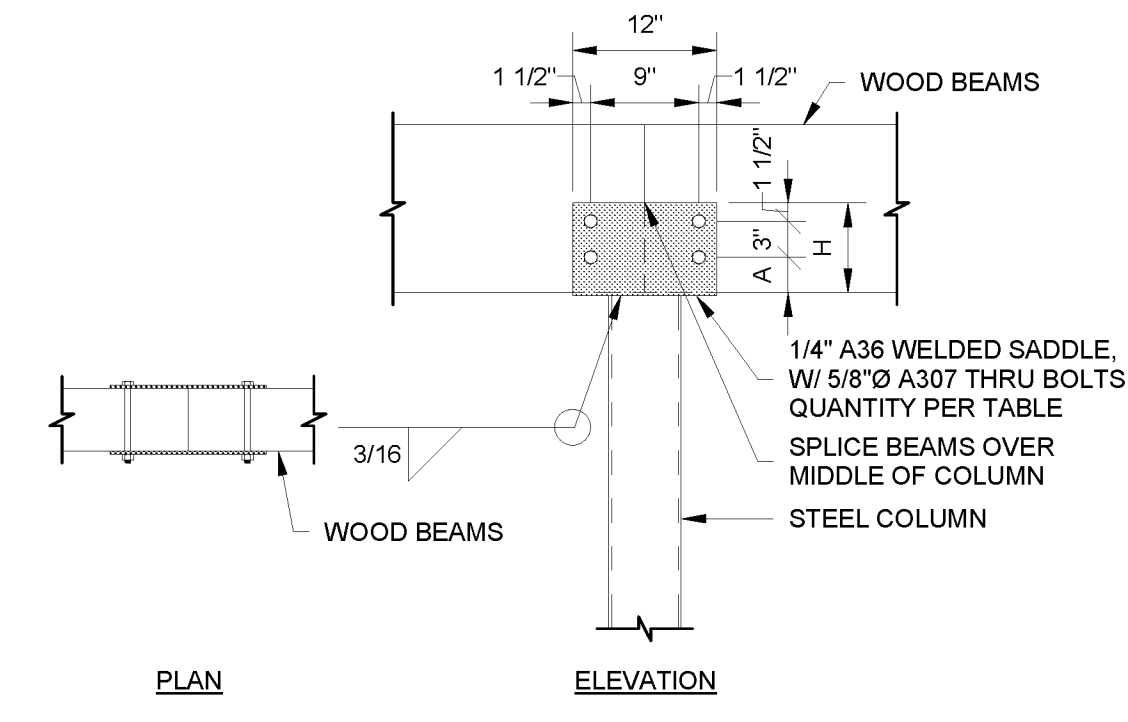
1 SHEAR CONNECTION - BEAM TO COLUMN
N.T.S.



2 HSS BEAM TO COLUMN CONNECTION INT.
N.T.S.

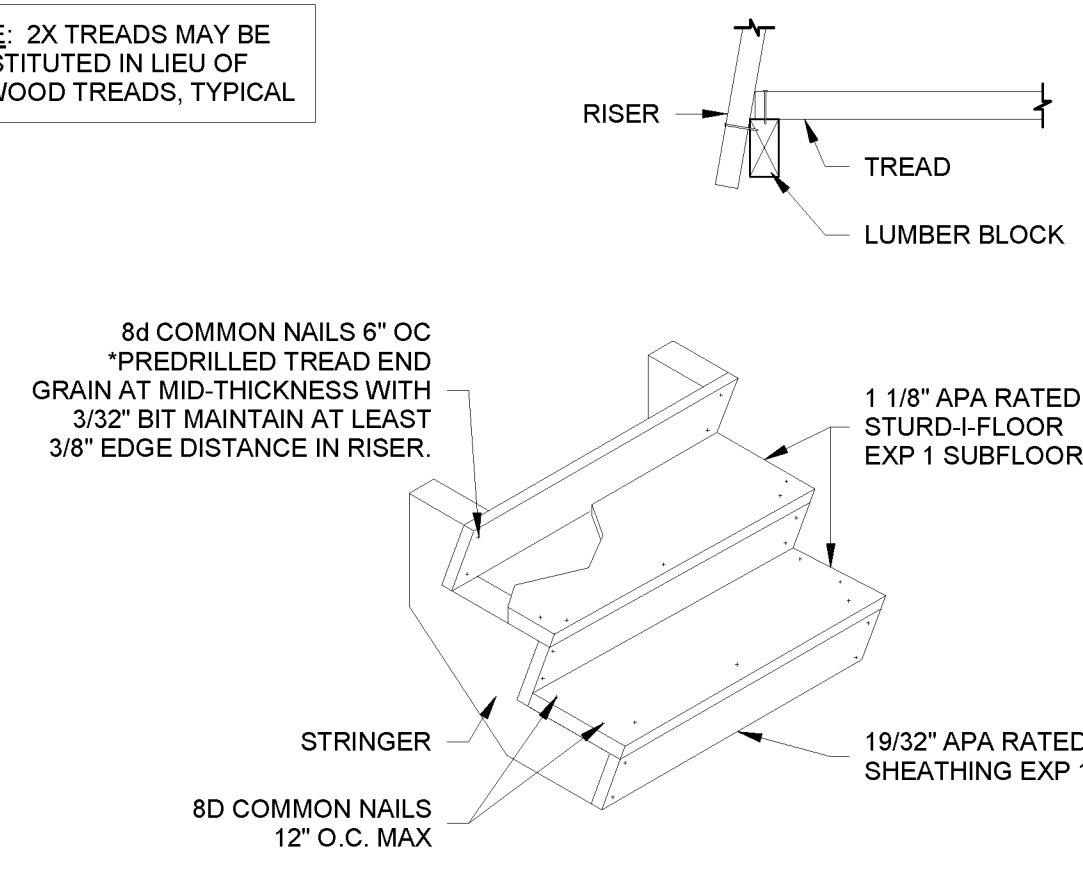
NOTE: FOR END CONDITION, PROVIDE 6\"/>

BEAM SIZE	# OF BOLTS	H	A
GLULAM 5 1/2\"/>			



3 WOOD BEAMS ON TOP OF STEEL COLUMN @ BEAM INT.
N.T.S.

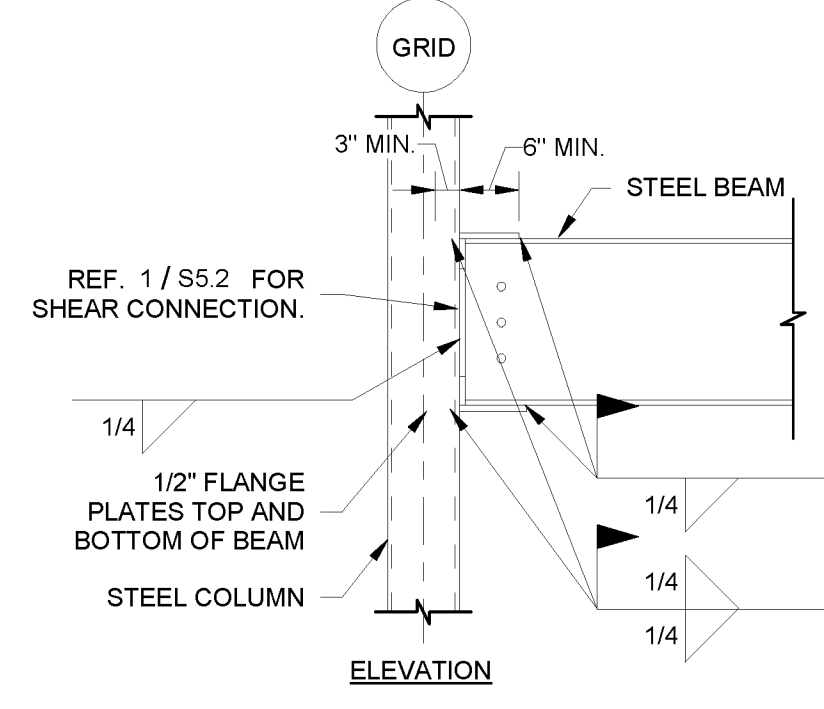
NOTE: 2X TREADS MAY BE SUBSTITUTED IN LIEU OF PLYWOOD TREADS, TYPICAL



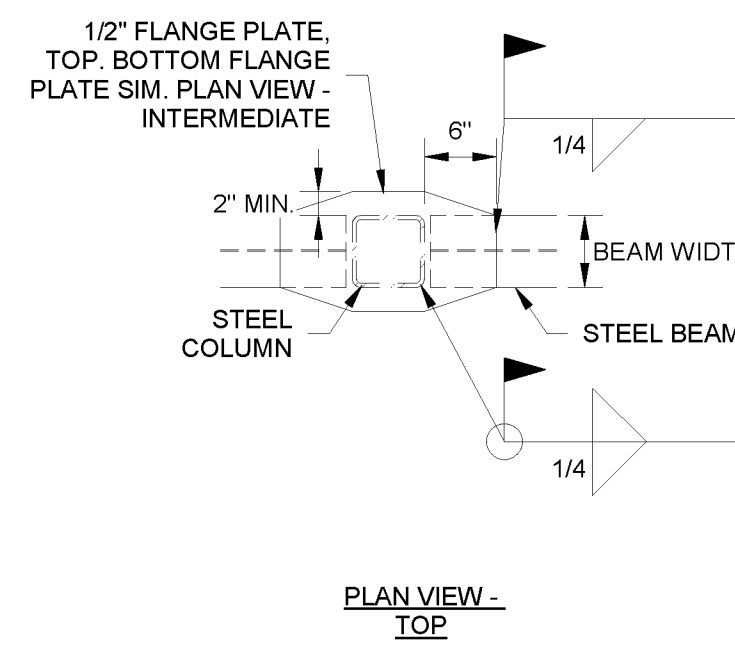
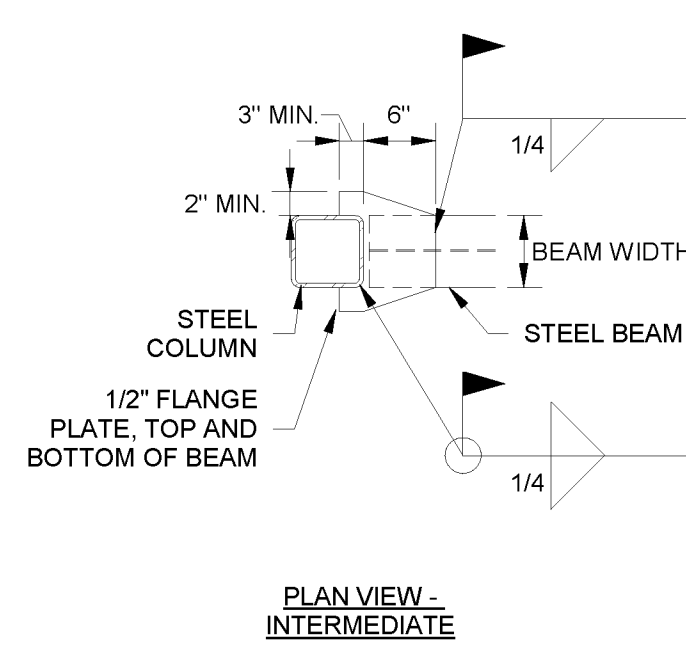
4 STAIR FRAMING
N.T.S.

GENERAL DETAIL NOTES:
1. REFERENCE ARCHITECTURAL PLANS FOR OVERHANG CONDITIONS.
2. REFERENCE PANEL TABLE ON FRAMING PLAN SHEETS FOR WALL SHEATHING, ROOF DECKING, AND FLOOR DECKING. GRADE, PANEL THICKNESS, AND NAILING.
3. REFERENCE UPLIFT CONNECTION TABLE FOR RAFTER/ROOF TRUSS TO TOP PLATE, TOP PLATE TO STUD, FLOOR TO FLOOR, AND STUD TO SILL PLATE CONNECTION SPACINGS.

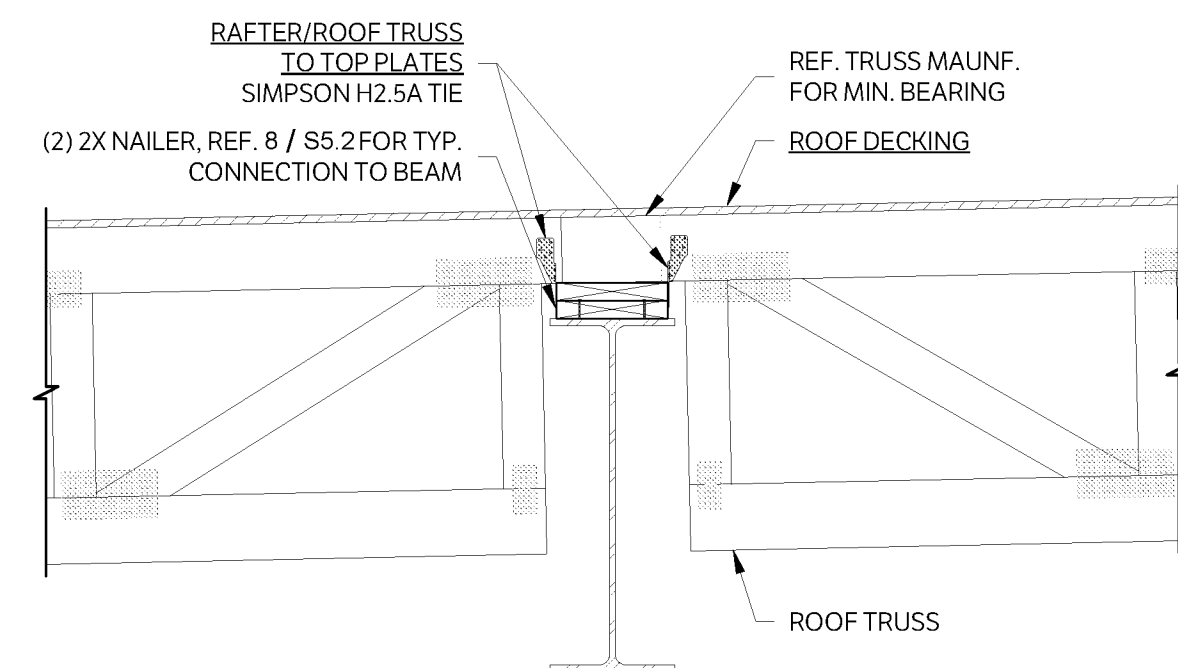
NOTE: WHERE ADDITIONAL PLATES ARE PRESENT AT BEAMS, MOMENT PLATES SHALL BE PLACED AT OUTERMOST LOCATION TO ENCLOSE ALL BEAM COMPONENTS WITHIN MOMENT CONNECTION. TOP OF COLUMNS SHALL BE FLUSH WITH THE PLATES ON TOP OF BEAMS.



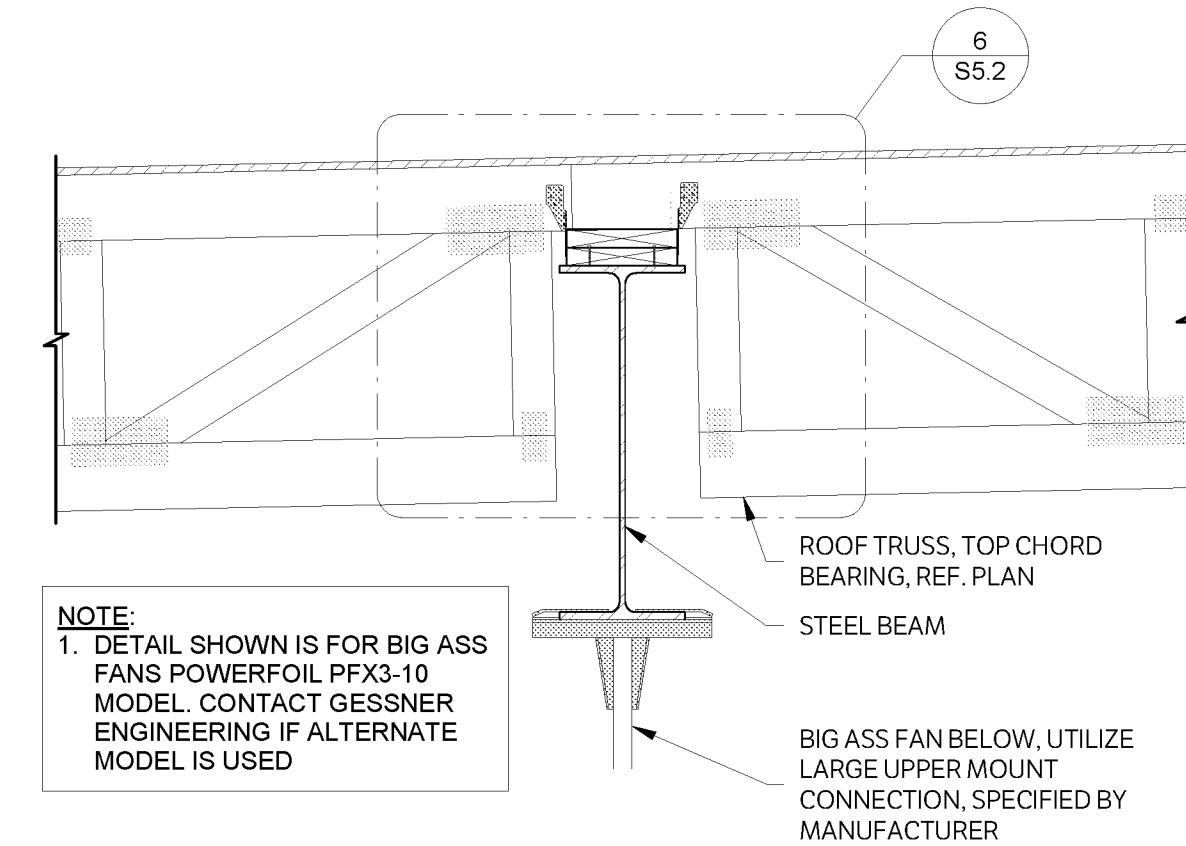
5 WF BEAM TO COLUMN - MOMENT CONNECTION
N.T.S.



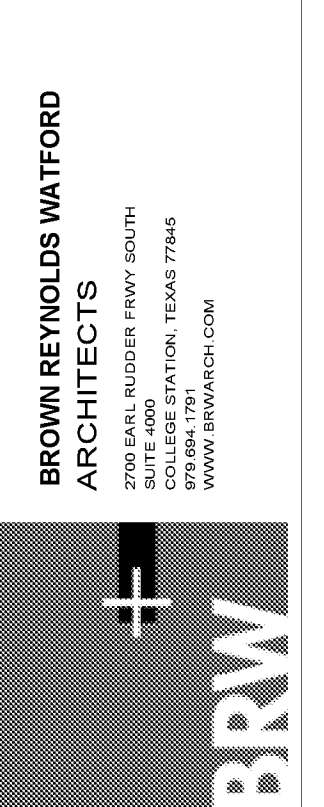
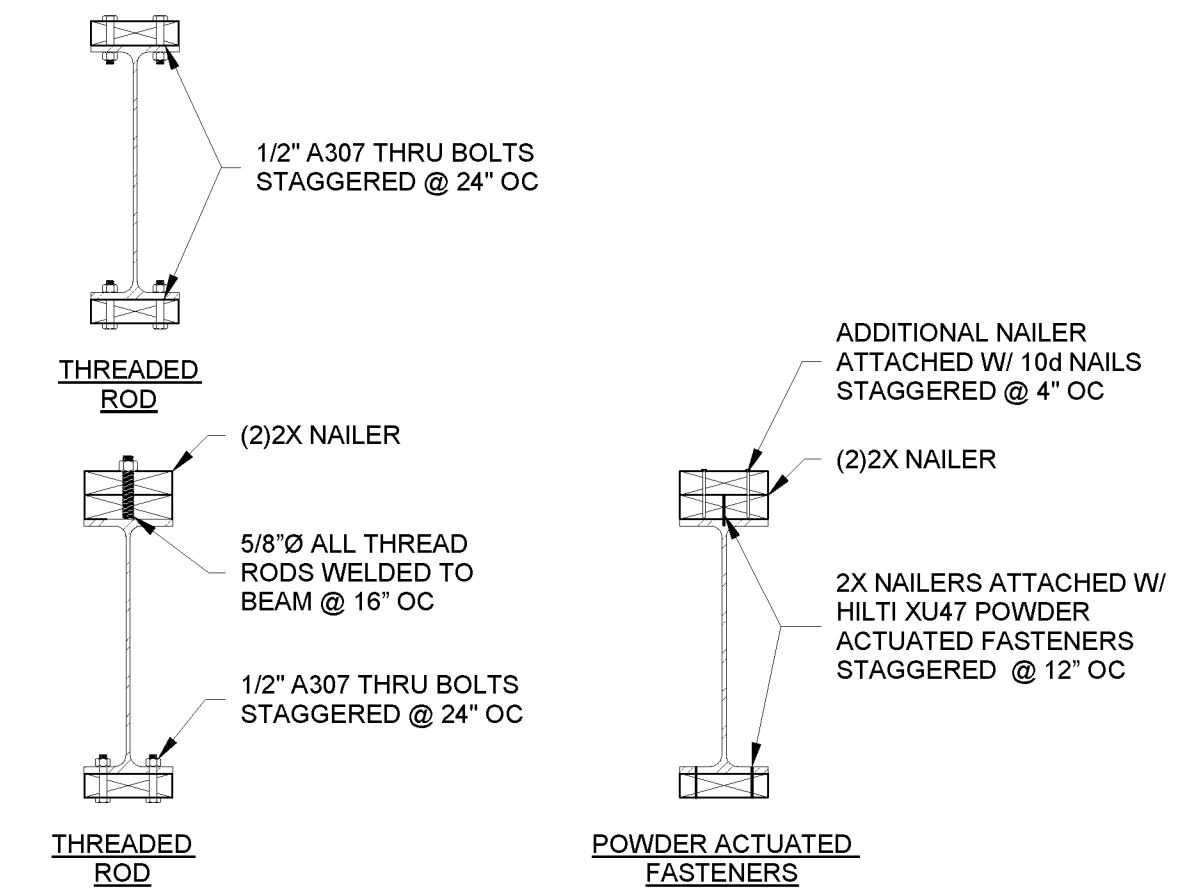
6 ROOF TRUSSES AT STEEL BEAM
N.T.S.



7 BEAM SECTION AT BIG ASS FAN
N.T.S.



8 NAILER CONNECTION W/ ADDITIONAL NAILER
N.T.S.



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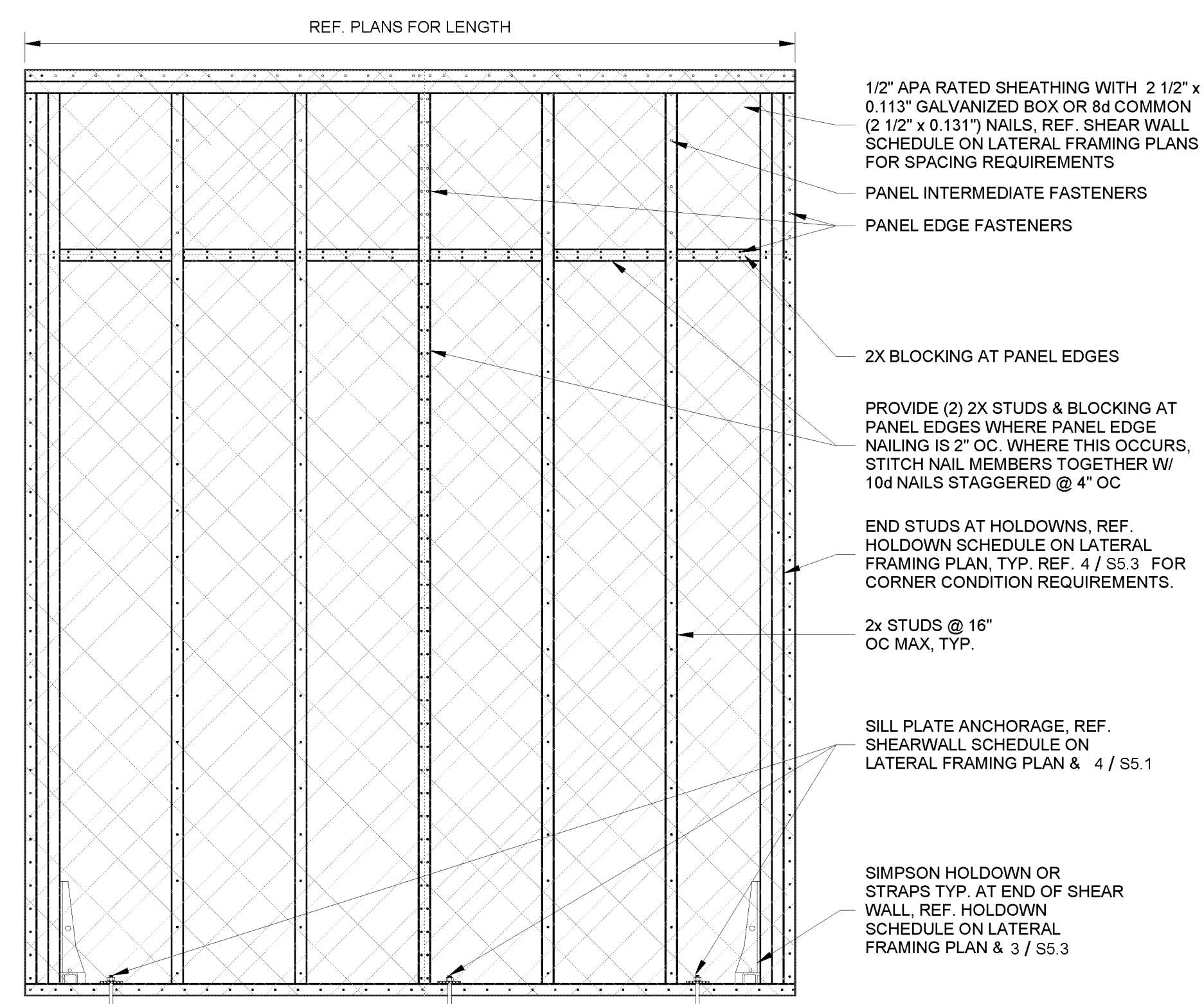
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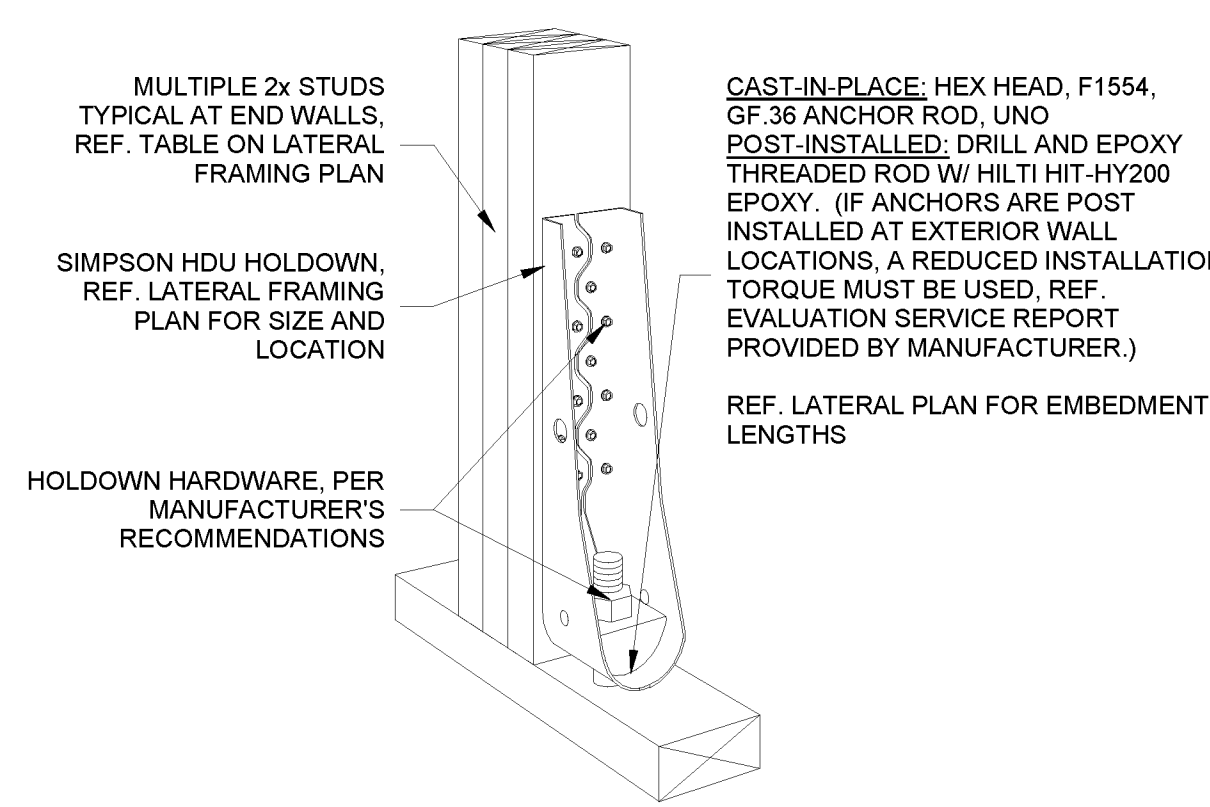
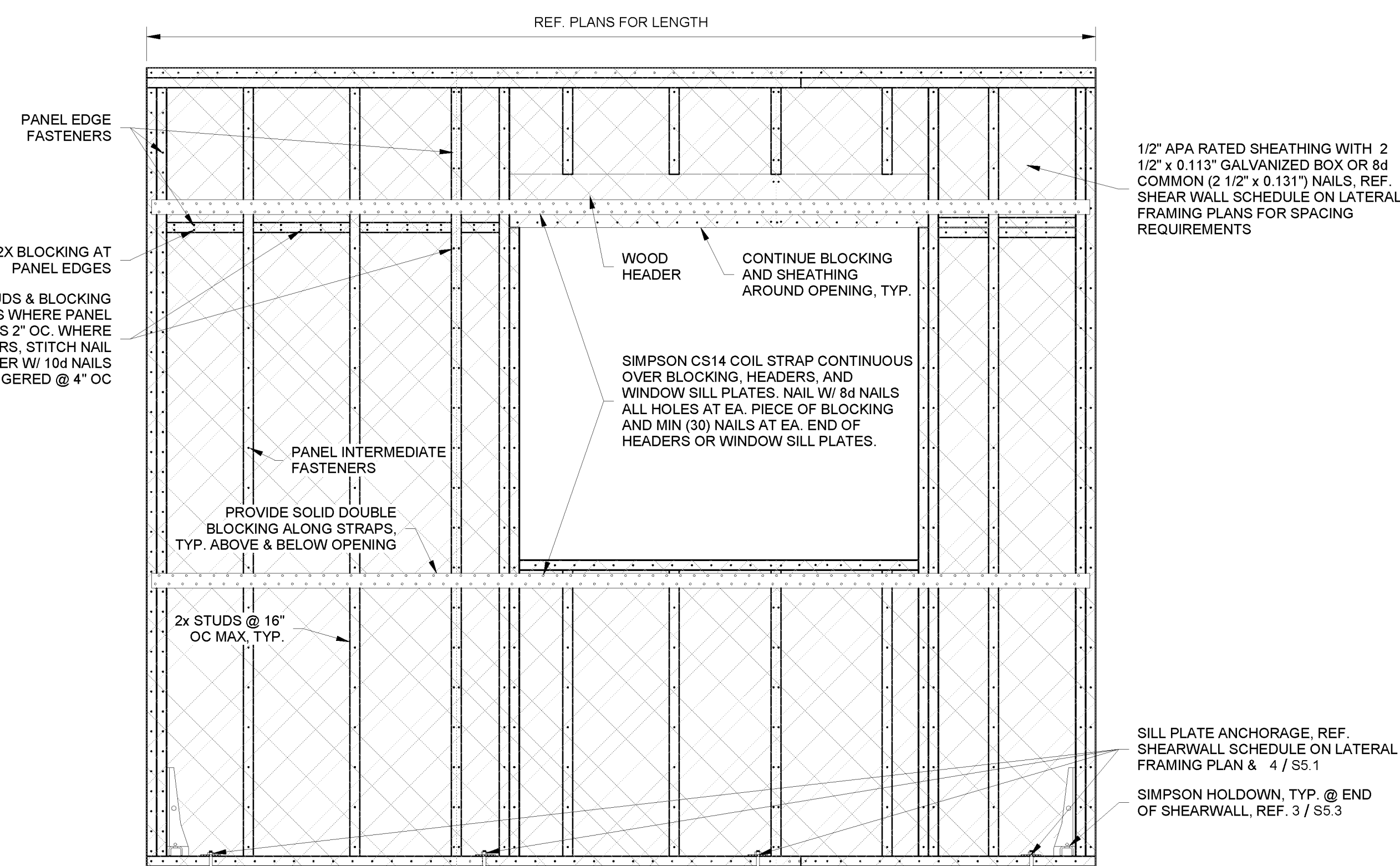
S5.2

FRAMING DETAILS

NOTES:
 1. ALL PANEL EDGES SHALL OCCUR OVER FRAMING MEMBERS OR BLOCKING
 2. REFERENCE DETAILS FOR CONNECTIONS OF FRAMING TO SHEAR WALLS AND SPECIAL CONDITIONS.
 3. PERFORATED SHEARWALLS SHALL HAVE SHEATHING AND BLOCKING CARRIED OVER AND AROUND FULL LENGTH OF OPENINGS.

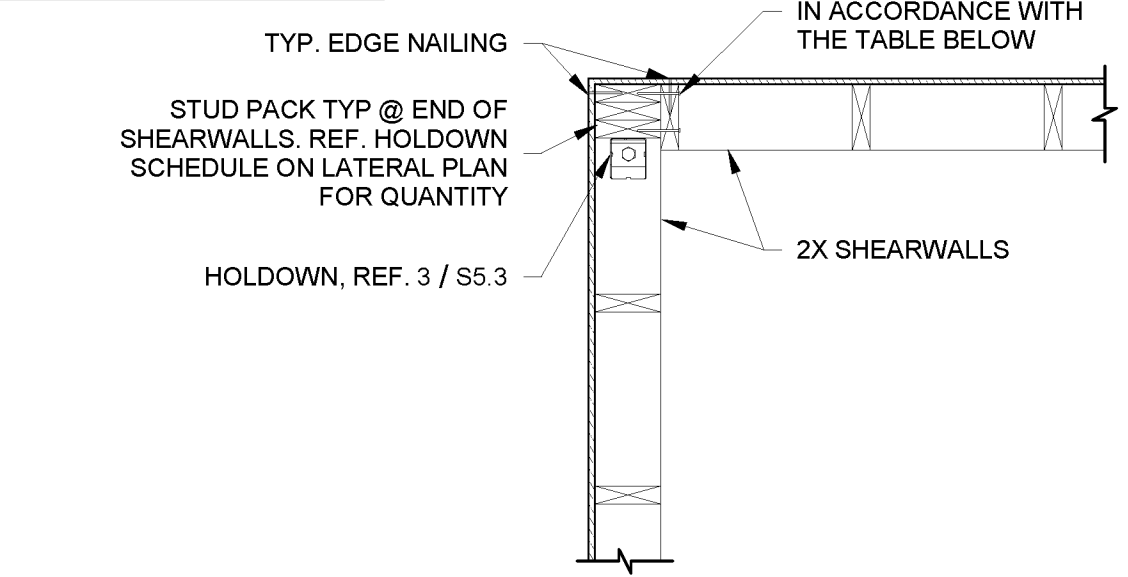


NOTES:
 1. ALL PANEL EDGES SHALL OCCUR OVER FRAMING MEMBERS OR BLOCKING
 2. REFERENCE DETAILS FOR CONNECTIONS OF FRAMING TO SHEAR WALLS AND SPECIAL CONDITIONS.



3 HOLDOWN DETAIL- HDU
N.T.S.

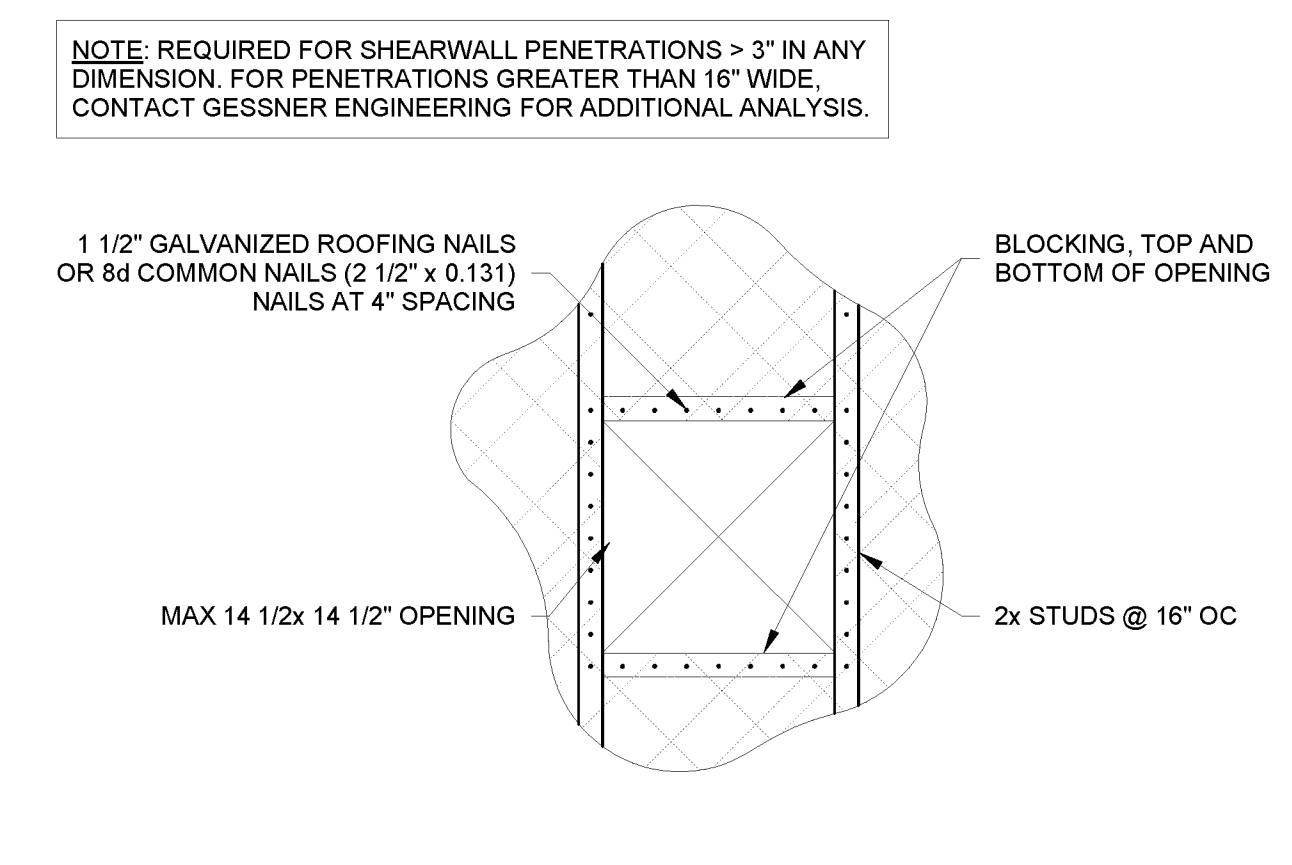
PANEL EDGE FASTENERS	CORNER STITCH FASTENERS
6"	12"
4"	9"
3"	6"
2"	4"



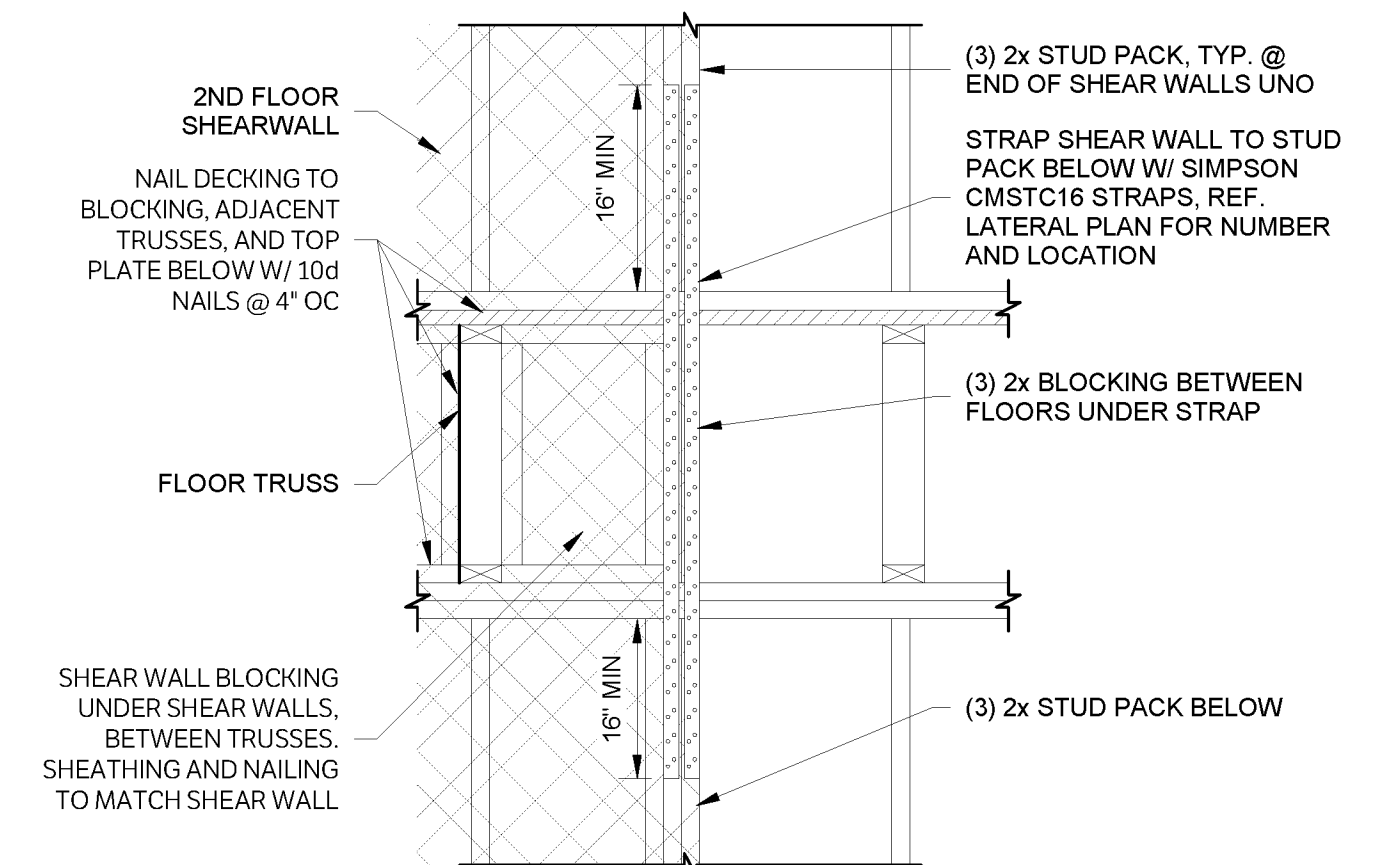
4 SHEARWALL AT CORNER
N.T.S.

1 SHEAR WALL
N.T.S.

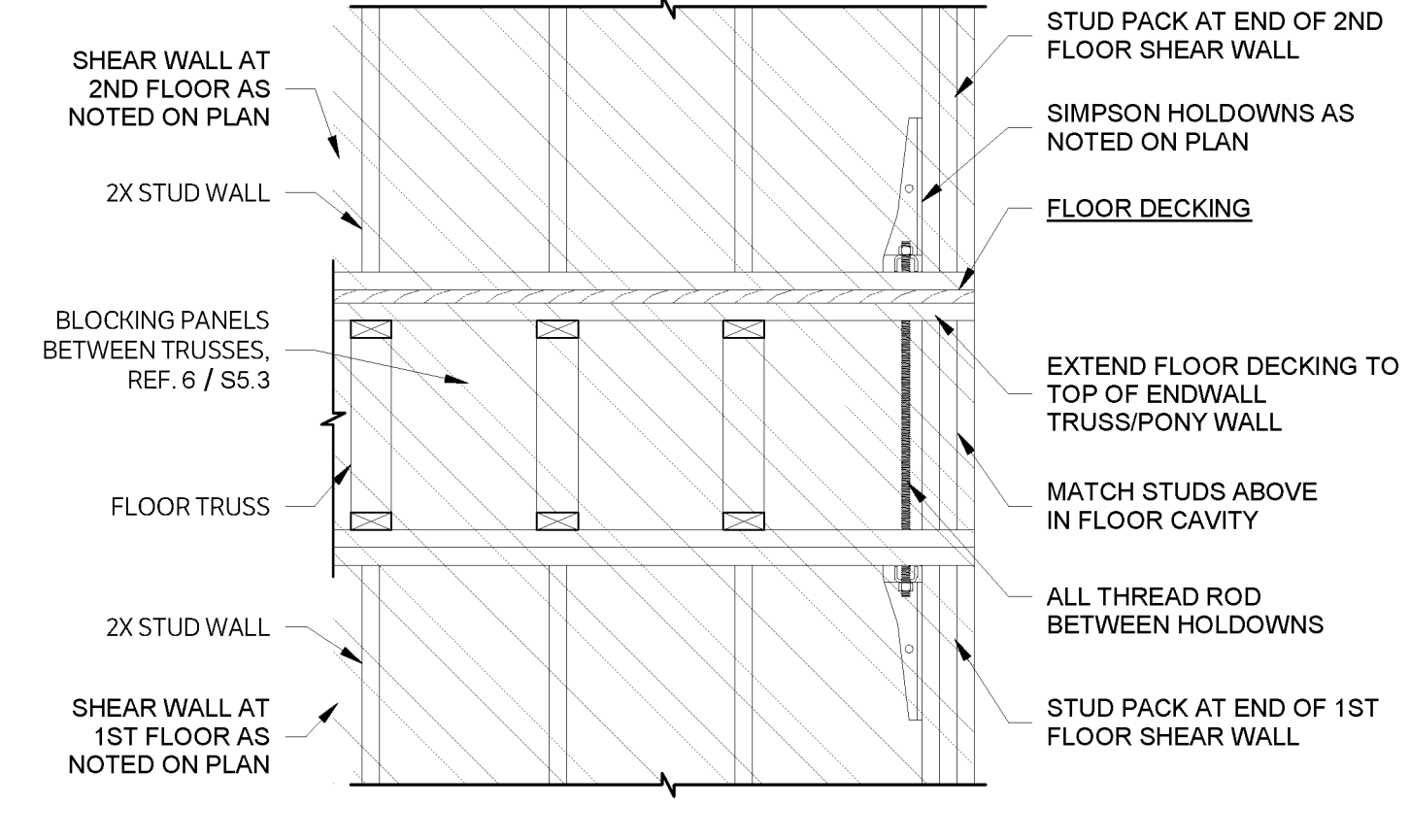
2 FORCE TRANSFER SHEAR WALL
N.T.S.



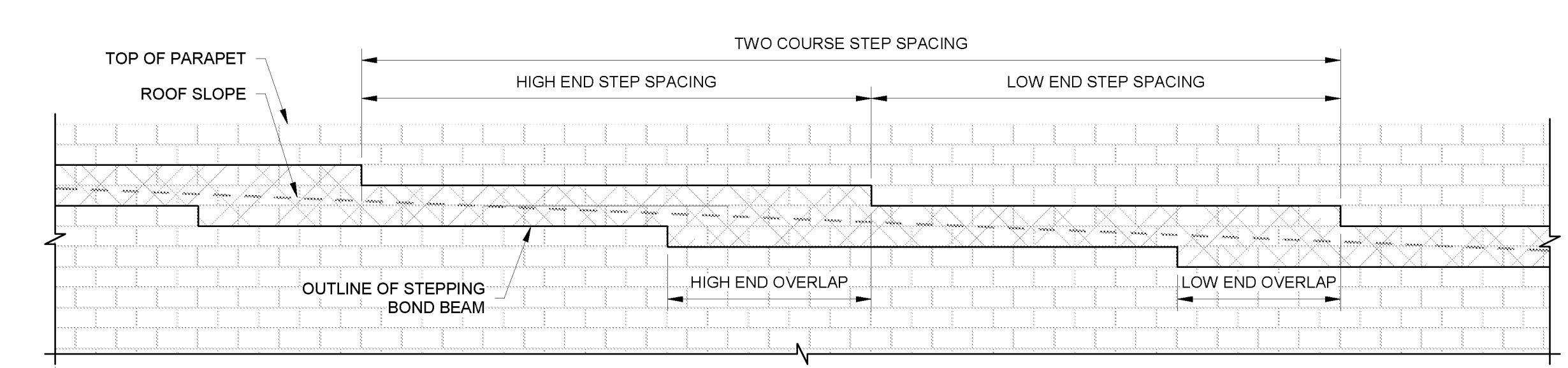
5 TYPICAL SHEAR WALL PENETRATION
N.T.S.



6 FLOOR TO FLOOR STRAP AT STACKED SHEARWALL
N.T.S.

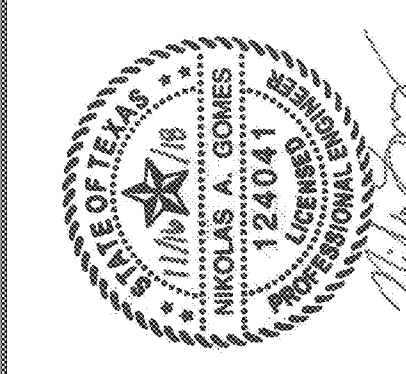
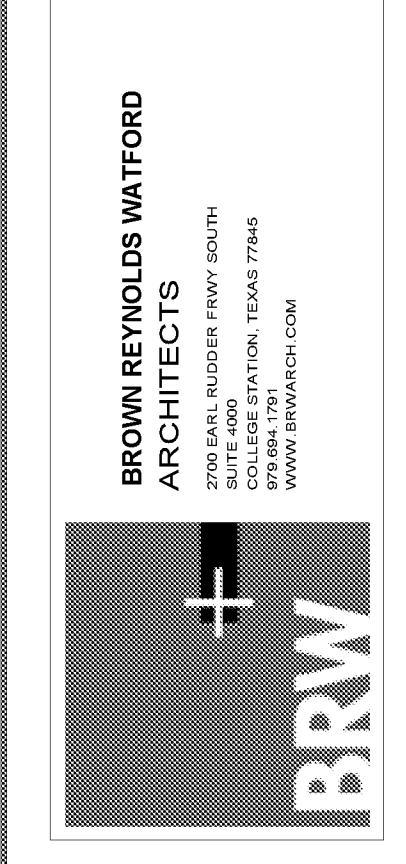


7 FLOOR TO FLOOR SHEARWALL
N.T.S.

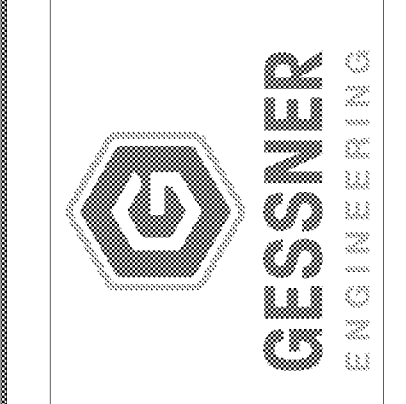


8 STEPPING CMU BOND BEAM
N.T.S.

ROOF SLOPE	TWO COURSE STEP SPACING	HIGH END STEP SPACING	LOW END STEP SPACING	HIGH END OVERLAP	LOW END OVERLAP
1/4 : 12	64' - 0"	32' - 8"	31' - 4"	10' - 8"	7' - 4"
1/2 : 12	32' - 0"	16' - 8"	15' - 4"	6' - 8"	5' - 4"
1 : 12	16' - 0"	8' - 8"	7' - 4"	4' - 8"	3' - 4"



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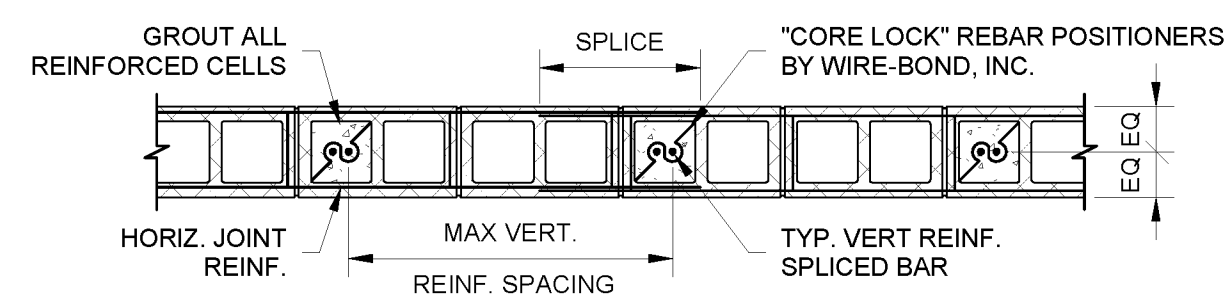
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S5.3

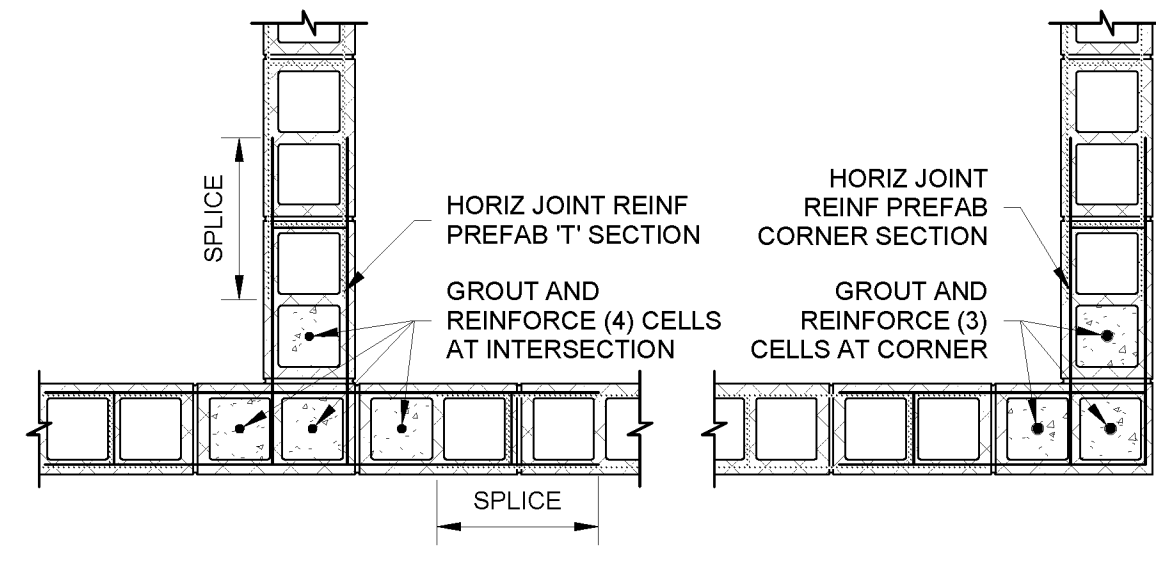
LATERAL DETAILS

- NOTE:**
1. MAINTAIN MINIMUM 3"x3" CLEAR UNOBSTRUCTED CONTINUOUS VERTICAL CELL AT EACH REBAR. PLACE WALLS TO MAX. 5'-0" HEIGHT BEFORE GROUTING.
 2. PLACE REBAR IN WALL WITH LAP SPlice LENGTH PER SCHEDULE.
 3. STOP GROUT POUR 1 1/2" BELOW TOP OF COURSE. AT EACH GROUT LIFT, EXCEPT AT LINTELS & BOND BEAMS EXTEND GROUT TO TOP OF GROUTED COURSE.
 4. PROVIDE REBAR POSITIONS AT MANUFACTURER RECOMMENDED SPACING, BUT NOT TO EXCEED 48" OC.



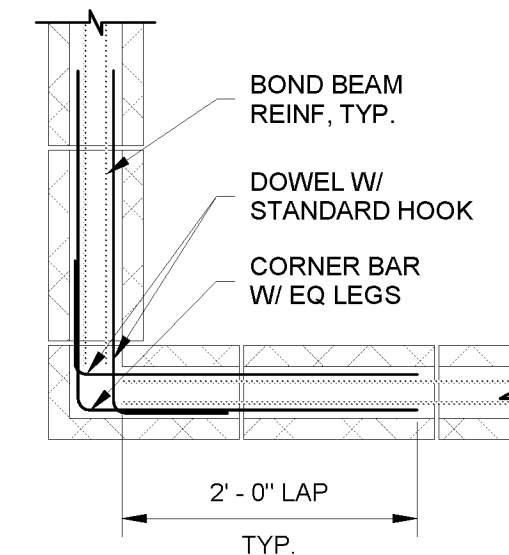
1 TYPICAL 8" CMU WALL REINFORCING DETAIL
N.T.S.

- NOTES:**
1. INTERSECTING WALL CMU BLOCKS SHALL BE INTERLOCKED WITH INTERSECTED CMU WALL, UNLESS SPECIFICALLY NOTED AS A CONTROL OR EXPANSION JOINT.
 2. AT CONTRACTOR'S OPTION, IN LIEU OF INTERLOCKING CMU COURSING, REMOVE WEB AND FACE SHELL AT INTERFACE AND GROUT MONOLITHICALLY.



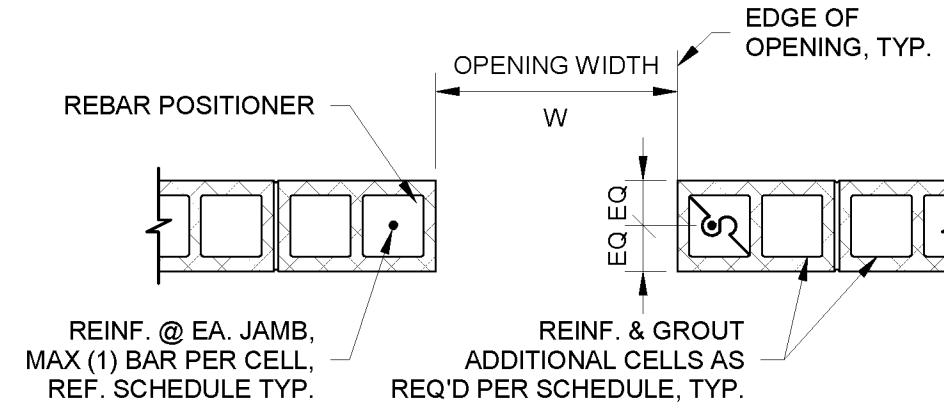
2 8" CMU WALL CORNER REINFORCING DETAIL
N.T.S.

- NOTES:**
- CORNER BAR AND DOWELS SHALL MATCH SIZE OF TYPICAL BOND BEAM REINFORCING.



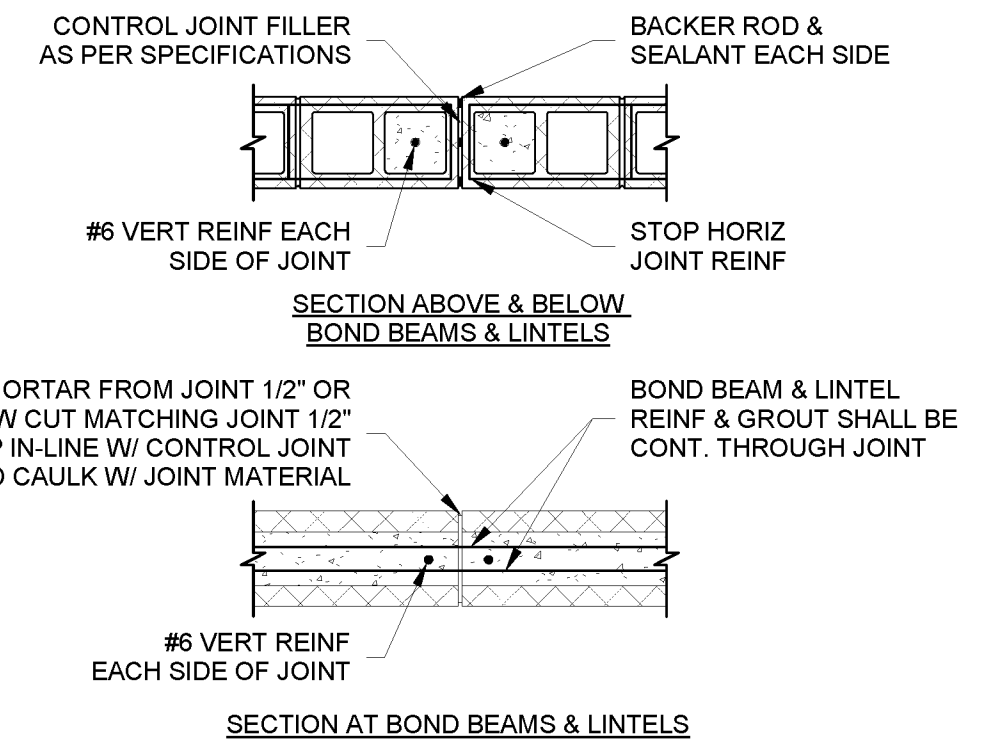
3 TYPICAL BOND BEAM CORNER REINFORCEMENT
N.T.S.

JAMB REINFORCING SCHEDULE	REINFORCING
3'-8" TO 7'-0"	(1) #5
7'-0" TO 10'-0"	(2) #5 (1 PER CELL)
10'-0" TO 14'-0"	(3) #5 (1 PER CELL)

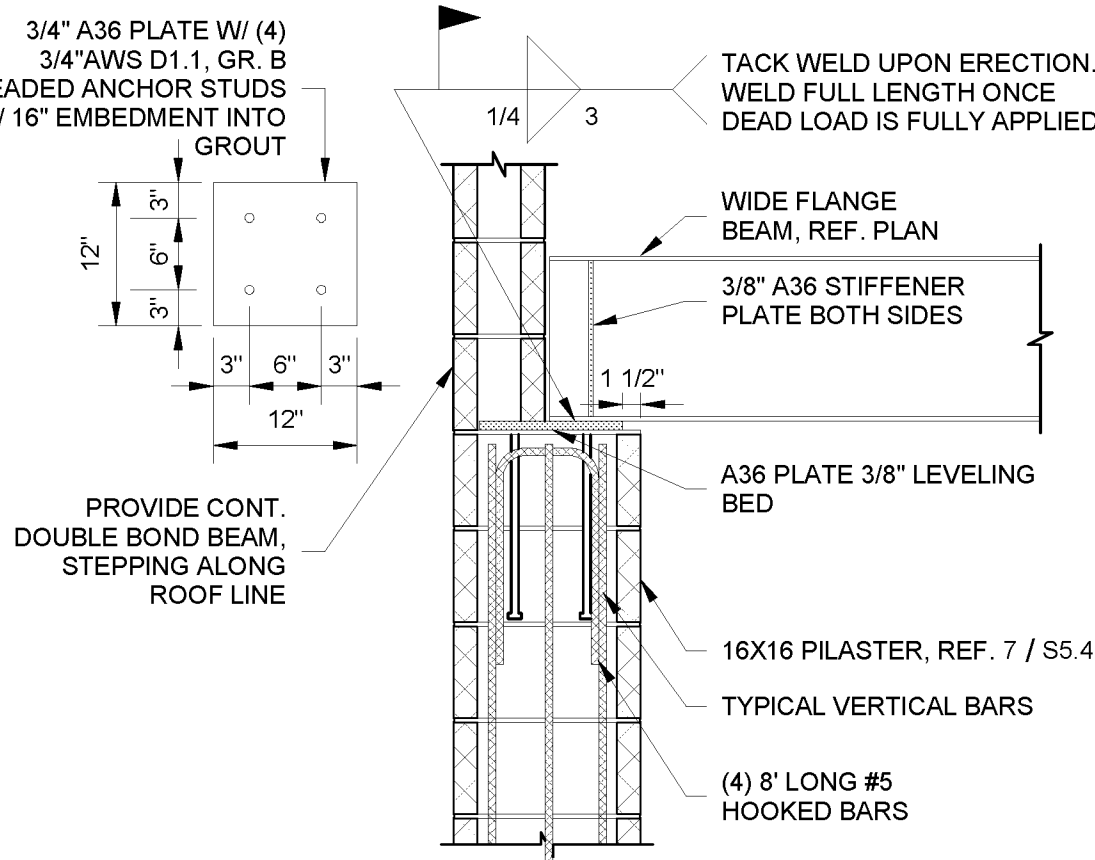


4 8" CMU JAMB DETAIL
N.T.S.

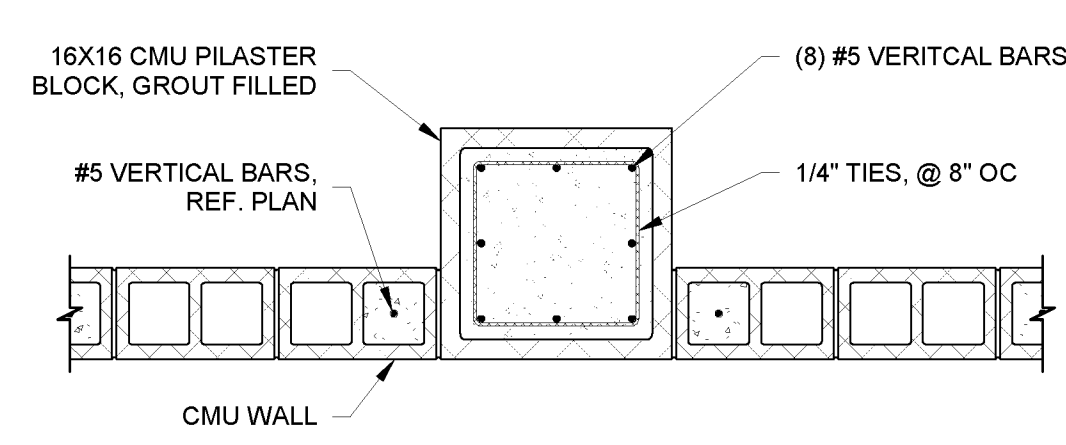
- NOTE:** REF. ARCH. FOR CMU CONTROL JOINT LOCATIONS.



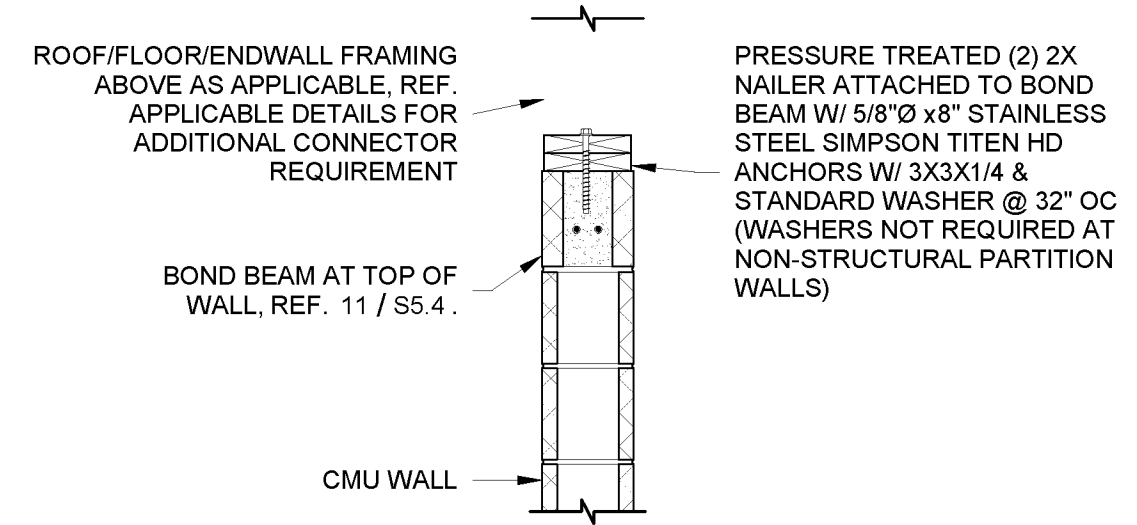
5 CMU CONTROL JOINT DETAIL
N.T.S.



6 BEAM TO CMU PILASTER
N.T.S.



7 CMU PILASTER DETAIL
N.T.S.



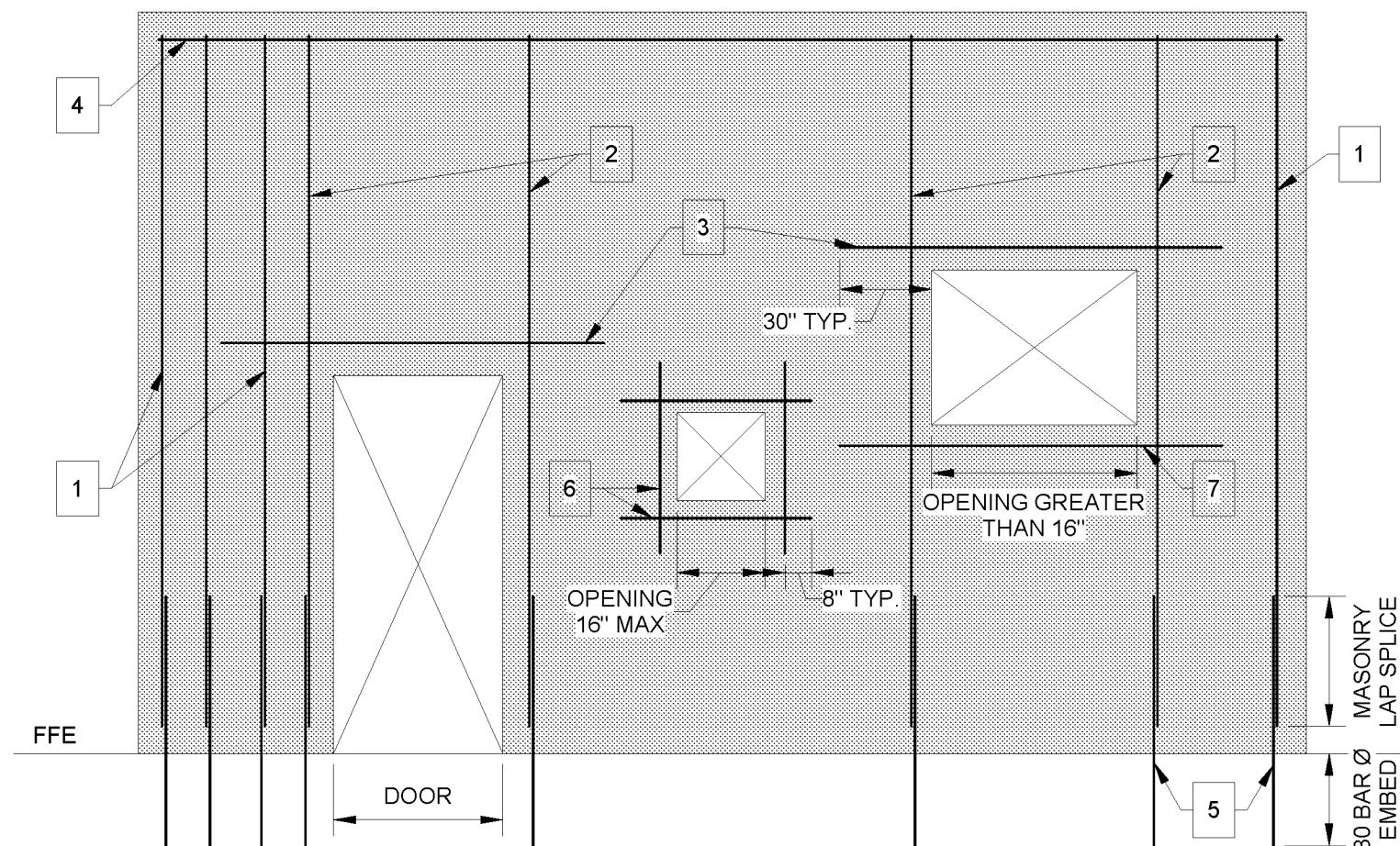
8 2X NAILER TO CMU
N.T.S.

- NOTES:**
1. WHERE CONTROL JOINTS ARE TO BE PLACED ADJACENT TO OPENINGS, MASONRY OVER NON-LOAD BEARING HEADER SPECIFIED ABOVE SHALL NOT EXCEED 4'-0" IN HEIGHT. WHERE THIS REQUIREMENT IS NOT MET, GESSNER ENGINEERING SHALL BE CONTACTED FOR ADDITIONAL INFORMATION.
 2. BARS SHALL NOT BE SPLICED OVER OPENINGS.
 3. SPLICE BARS WITHIN WALL AS REQUIRED. STAGGER LAP SPLICING WITHIN COURSE.

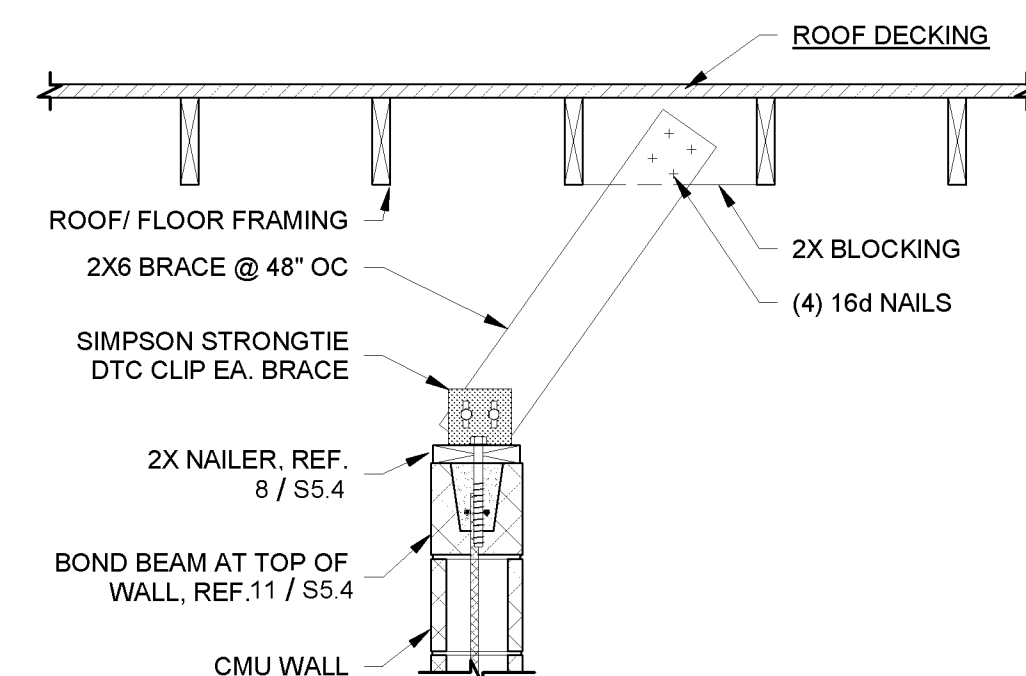
	BOND BEAM WITHIN WALL	BOND BEAM OVER OPENING
SINGLE	<p>PROVIDE WITHIN WALL:</p> <ul style="list-style-type: none"> WHERE SHOWN AT TOP OF ALL WALLS LESS THAN 12'-0" TALL, UNO AT FLOOR BEARING LINES AT ROOF LINES, TO STEP AS REQ. W/ ROOF SLOPE, MAINTAINING A MIN. 4'-0" OVERLAP OF DOUBLE BOND BEAM AS SINGLE BOND BEAM STEPS AT ENDS OF ASSOCIATED BOND BEAM OVER OPENING AT 12'-0" AFF UNLESS ALREADY PLACED AT FLOOR BEARING LINE <p>PROVIDE OVER OPENING:</p> <ul style="list-style-type: none"> WHERE SHOWN OVER NON-LOAD BEARING OPENINGS NOT GREATER THAN 3'-8" 	<p>EXTEND REIN INTO BOND BEAM</p> <p>GROUT</p> <p>(2) #5 BARS, PROVIDE CORNER BARS @ CORNERS</p> <p>U-BLOCK</p>
DOUBLE	<p>PROVIDE WITHIN WALL:</p> <ul style="list-style-type: none"> WHERE SHOWN AT TOP OF ALL WALLS GREATER THAN 12'-0" TALL, UNO AT ENDS OF ASSOCIATED BOND BEAM OVER OPENING <p>PROVIDE OVER OPENING:</p> <ul style="list-style-type: none"> WHERE SHOWN OVER NON-LOAD BEARING OPENINGS NOT GREATER THAN 7'-0" 	<p>EXTEND REIN INTO BOND BEAM</p> <p>KNOCK-OUT CMU BLOCK</p> <p>GROUT</p> <p>U-BLOCK</p> <p>(2) #5 BARS, PROVIDE CORNER BARS @ CORNERS</p>
TRIPLE	<p>PROVIDE WITHIN WALL:</p> <ul style="list-style-type: none"> WHERE SHOWN AT ENDS OF ASSOCIATED BOND BEAM OVER OPENING <p>PROVIDE OVER OPENING:</p> <ul style="list-style-type: none"> WHERE SHOWN 	<p>EXTEND REIN INTO BOND BEAM</p> <p>KNOCK-OUT CMU BLOCK</p> <p>GROUT</p> <p>U-BLOCK</p> <p>(2) #5 BARS, PROVIDE CORNER BARS @ CORNERS</p>

11 BOND BEAM SCHEDULE
N.T.S.

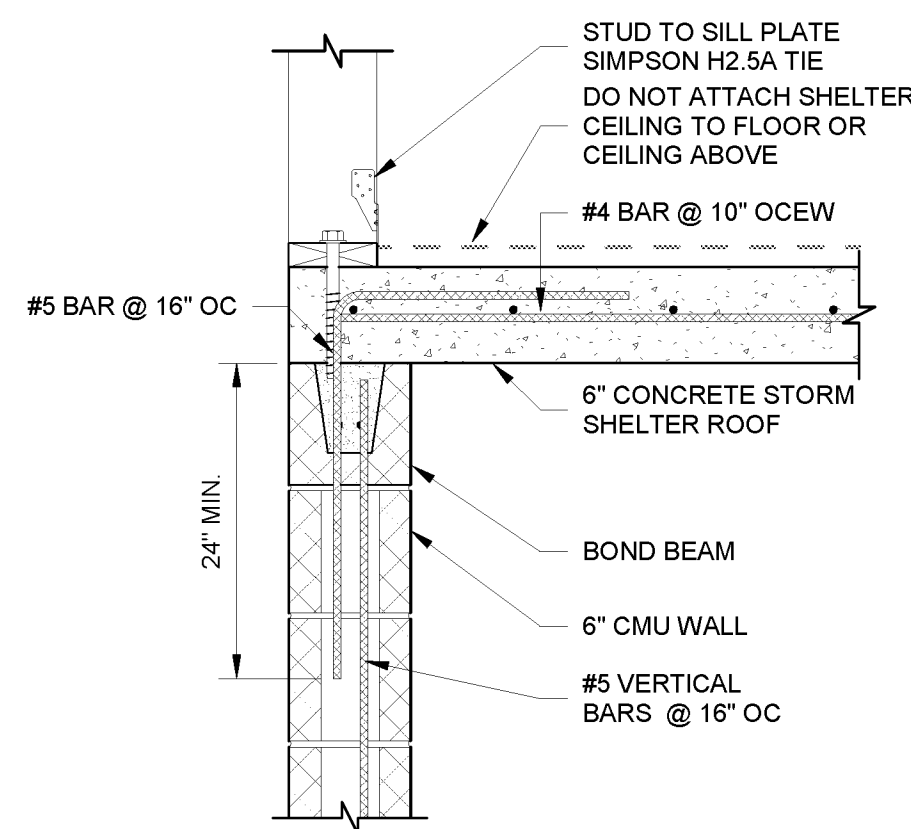
1. TYPICAL WALL REINFORCEMENT SHALL BE #5 BARS, SPACING AS NOTED ON S.O. OR PLANS. PROVIDE ADDITIONAL REINFORCEMENT AT CORNERS AND INTERSECTIONS PER TYPICAL DETAILS.
2. JAMB REINFORCEMENT: (1) #5 EA SIDE OF OPENING FOR MAX 5'-0" OPENING WIDTH
3. LINTEL REINFORCEMENT: REF. PLAN FOR DEPTH AND LINTEL SCHEDULE FOR REIN.
4. BOND BEAM REINFORCEMENT: SEE BOND BEAM DETAIL
5. DOWEL EMBEDDED INTO GRADE BEAM BELOW SIZE AND QUANTITY TO MATCH VERTICAL REINFORCEMENT WITH REQUIRED LAP SPlice.
6. (1) #5 EACH SIDE, TOP & BOTTOM.
7. SILL REINFORCEMENT: (2) #5 SIMILAR TO BOND BEAM.
8. ALL COURSES WITH REINFORCEMENT SHALL BE SOLIDLY GROUTED, PROVIDE GROUT SCREEN AS REQUIRED.



9 TYPICAL REINFORCED CMU WALL ELEVATION
N.T.S.

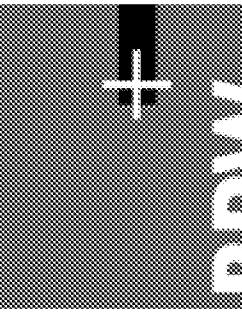


10 CMU WALL BRACING
N.T.S.



12 WALL AND ROOF CONNECTION FOR SHELTER
N.T.S.

BROWN REYNOLDS WATFORD ARCHITECTS

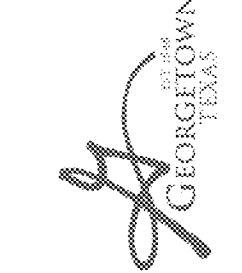


CORPORATE OFFICE
2501 ASHFORD DRIVE
COLLEGE STATION, TX 77840
1-877-GESSNER (437-7637)
www.gessnerengineering.com
FIRM REGISTRATION NUMBERS:
18PE-7451, 18PL-71015910



CITY OF GEORGETOWN ARCHITECTS, INC.
11.16.18
DATE
DRAWN BY
CHECKED BY
PROJECT NO.

CITY OF GEORGETOWN
FIRE STATION NO. 7
2711 EAST UNIVERSITY AVENUE
GEORGETOWN, TX 78626



NO.	DESCRIPTION	DATE

S5.4

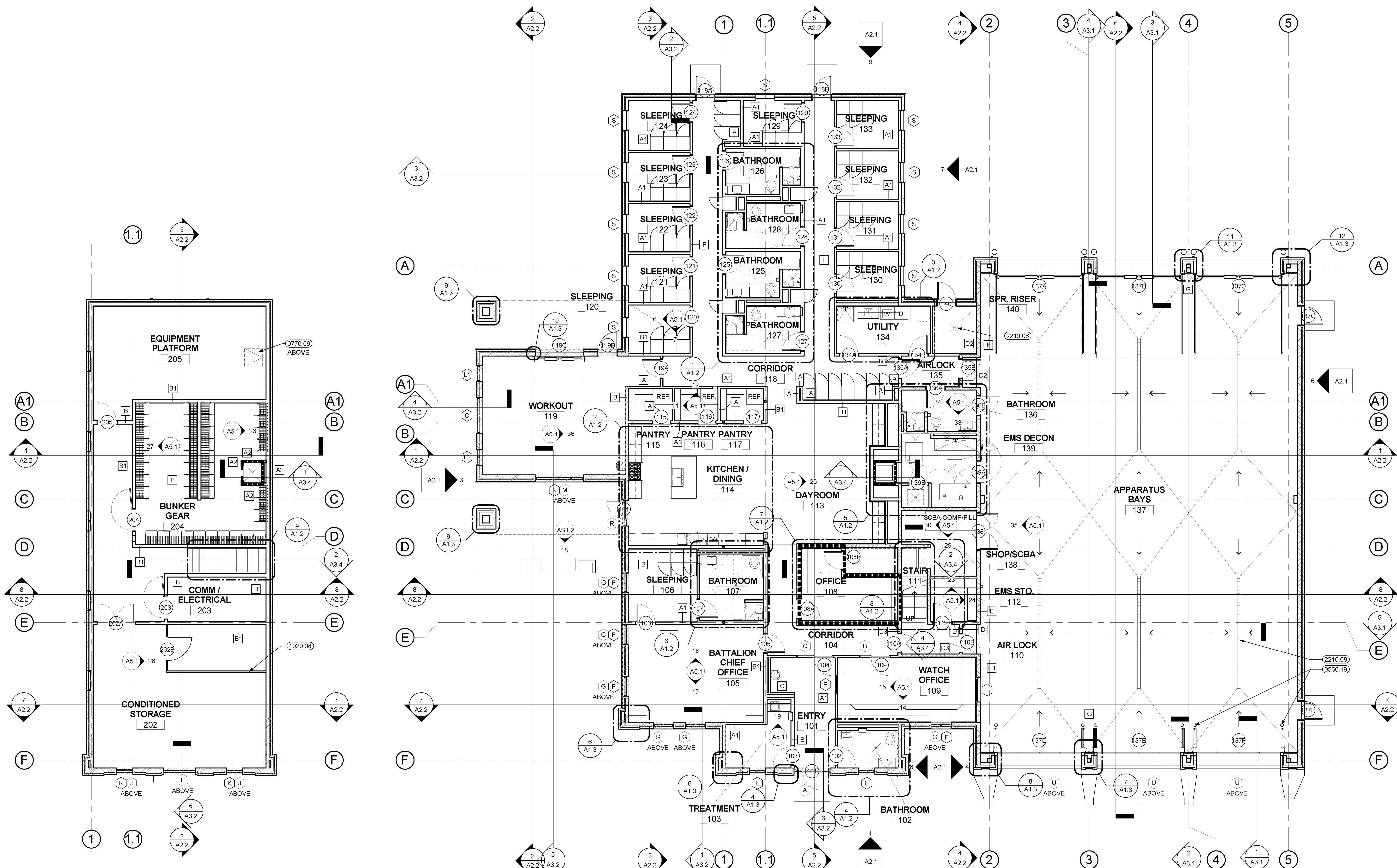
CMU DETAILS

KEYNOTES

- 0320.02 STEEL REINFORCING (RE: STRUCTURAL)
- 0360.03 FILL WITH GROUT
- 0420.02 HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
- 0420.10 4" CONCRETE MASONRY UNITS
- 0420.13 6" CONCRETE MASONRY UNITS
- 0420.14 8" CONCRETE MASONRY UNITS
- 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE: STRUCTURAL)
- 0440.08 THIN STONE VENEER
- 0470.14 MORTAR BED ON METAL LATH
- 0550.19 6" PIPE BOLLARD. FILL WITH CONCRETE
- 0610.05 1/2" EXTERIOR GRADE PLYWOOD
- 0610.09 2 X 4 WOOD STUDS AT 16" O.C.
- 0610.10 2 X 6 WOOD STUDS AT 16" O.C.
- 0610.29 2X WOOD FLOORING STRIPS
- 0720.17 GRANULAR INSULATING FILL IN CMU BLOCKS
- 0770.09 ROOF HATCH WITH INTEGRAL COUNTERFLASHING
- 0920.26 5/8" CEMENTITIOUS BACKER BOARD
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.34 GYPSUM BOARD GUSSETS AT 16" O.C.
- 0920.45 5/8" GYPSUM BOARD MOISTURE RESISTANT (TYPE X)
- 0980.03 3 1/2" FIBERGLASS SOUND ATTENUATION INSULATION
- 1020.08 WIRE MESH PARTITION WITH SLIDING (OR SWINGING) GATE. EXTEND AND ATTACH TO UNDERSIDE OF STRUCTURE TO PROVIDE SECURE ENCLOSURE
- 2210.06 FLOOR DRAIN
- 2210.08 TRAFFIC RATED TRENCH DRAIN
- 2650.01 RECESSED LIGHT FIXTURE
- 2650.18 LED FLEXIBLE LIGHTING SYSTEM

LEGEND

- (2) 2X8 STUDS @ 16" O.C. RE: STRUCTURAL

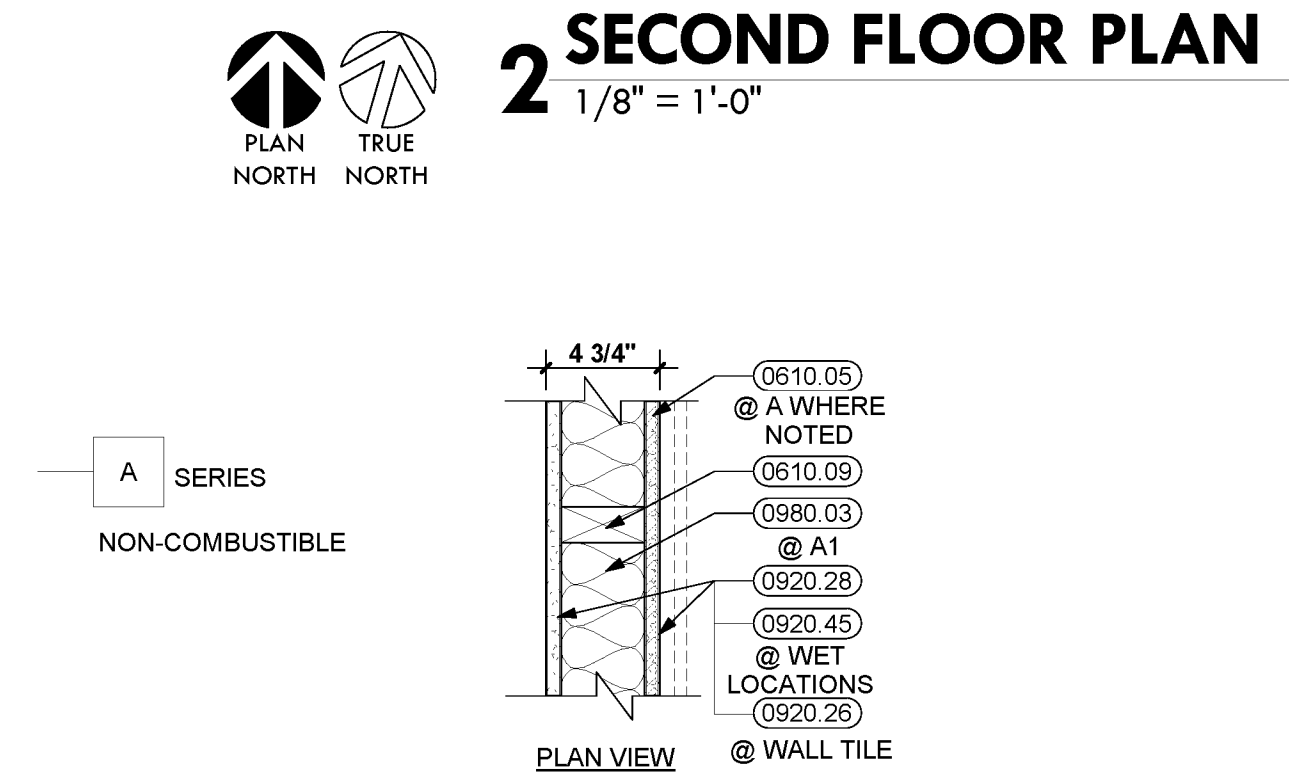


2 SECOND FLOOR PLAN
1/8" = 1'-0"

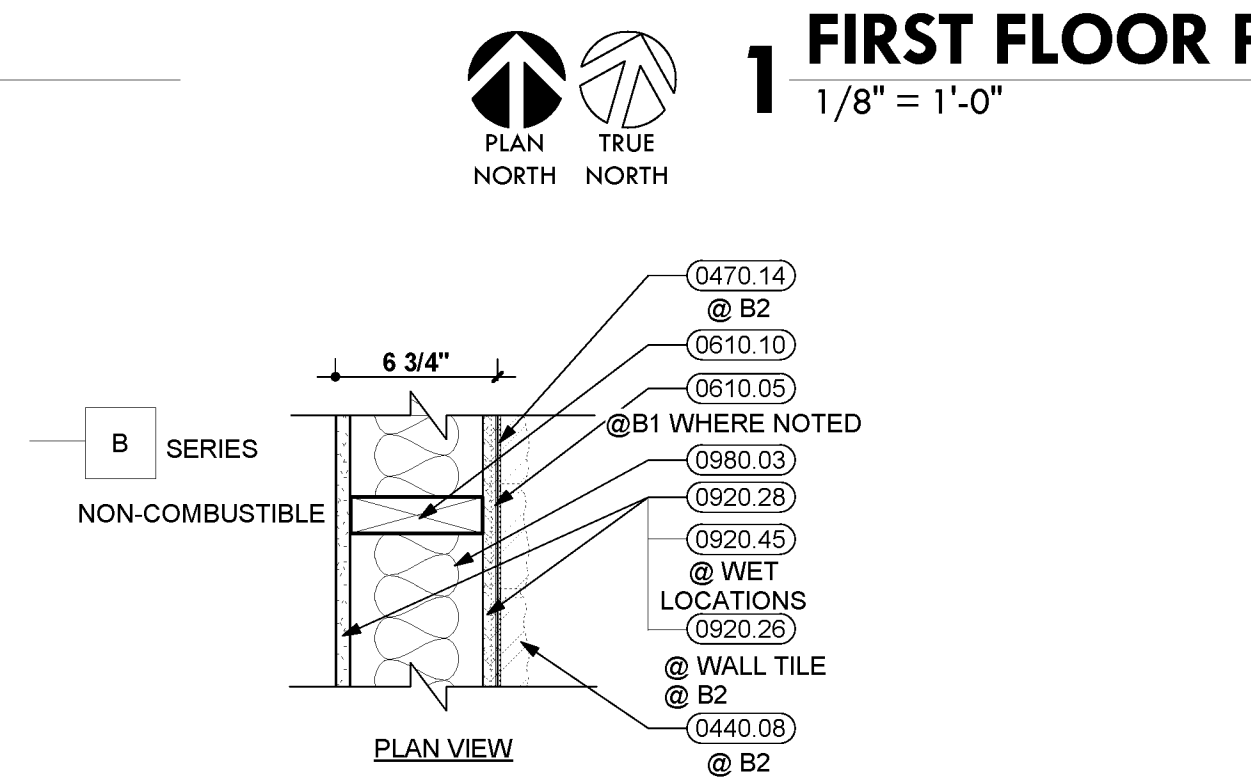
1 FIRST FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES:

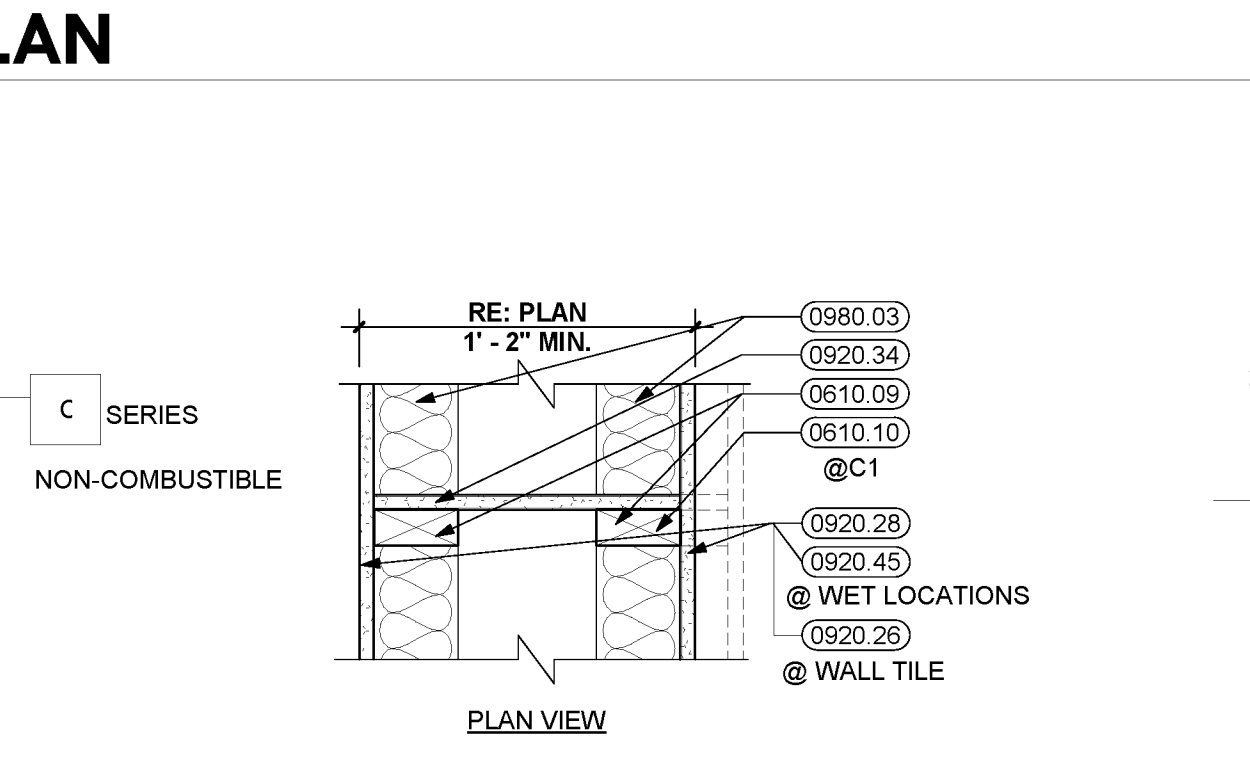
1. PARTITIONS SHALL BE TYPE "A1" UNLESS OTHERWISE NOTED.
2. TYPICAL FLOOR PLAN DIMENSIONS OF PARTITIONS ARE TO THE FINISH FACE OF PARTITIONS.
3. WHERE A CLEAR DIMENSION OR OPENING IS REQUIRED OR NOTED, MEASURE DIMENSION TO FACE OF PARTITION FINISH
4. PROVIDE STUD BRACING AT 4' - 0" O.C. MAX. BRACING SHALL ATTACH TO STUDS 1' - 0" MAX. ABOVE CEILING.
5. ALL ELEMENTS OF ACOUSTIC RATED PARTITIONS SHALL EXTEND TO ROOF OR FLOOR DECK ABOVE AND ALL JOINTS AND PENETRATIONS OF ACOUSTICALLY RATED PARTITIONS SHALL BE FILLED AND SEALED.
6. PENETRATIONS IN RATED PARTITIONS AND CONNECTIONS OF THE PARTITIONS TO OTHER PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED DETAILS AND IN COMPLIANCE WITH APPLICABLE TESTING AGENCY REQUIREMENTS.
7. INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT/MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT DESCRIBED IN THE DOCUMENTS.
8. PROVIDE CEMENTITIOUS BACKER BOARD AT AREAS THAT ARE SCHEDULED TO RECEIVE CERAMIC TILE FINISH AND AS REQUIRED BY CODE.
9. INSTALLATION OF GYPSUM BOARD, BACKER BOARD AND BASE BOARD SHALL CONFORM TO REQUIREMENTS FOR FIRE RATINGS AND ACOUSTICAL RATINGS.
10. WHERE PARTITIONS AND/OR FURRING MEET, MAINTAIN A FLUSH FINISH SURFACE UNLESS OTHERWISE NOTED.



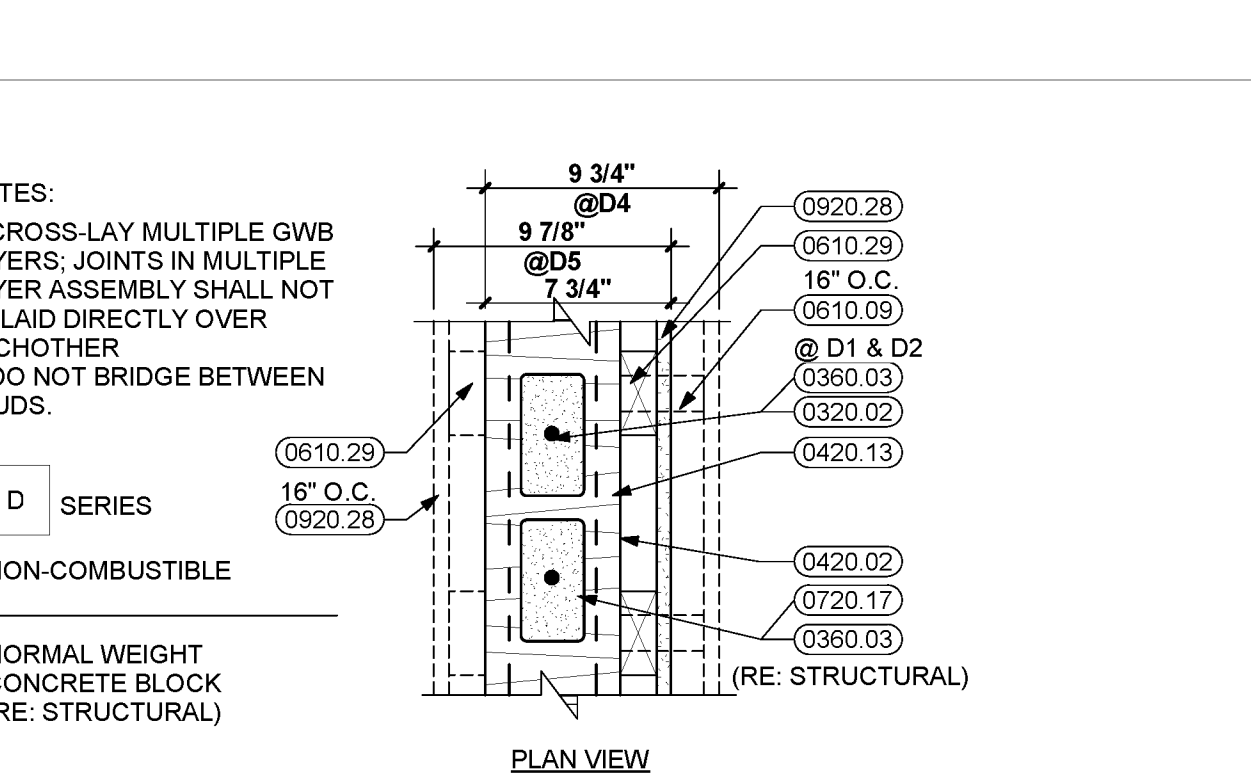
PTN TYPE	STUD	PART WIDTH	PART HEIGHT	W/ SOUND BATTS	NOTES
A	2 X 4 @ 16" O.C. WRBRCKING @ 4'-0" O.C.	4 3/4"	TO 3" ABOVE CEILING		
A1	2 X 4 @ 16" O.C.	4 3/4"	TO B.O. STRUCTURE	X	
A2	2 X 4 @ 16" O.C.	4 3/4"	TO DECK / B.O. RATED ASSEMBLY	X	AVAILABLE FIRE RESISTANCE 1-HR



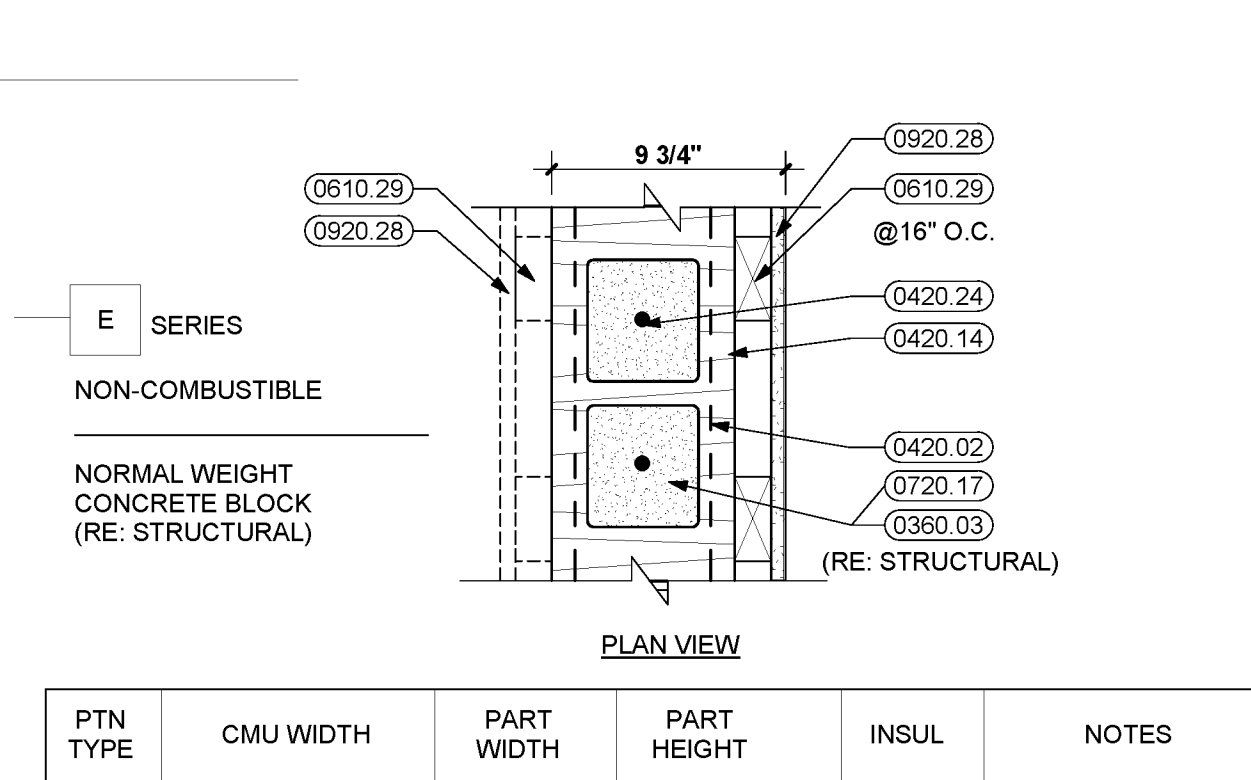
PTN TYPE	STUD	PART WIDTH	PART HEIGHT	W/ SOUND BATTS	NOTES
B	2 X 6 @ 16" O.C.	6 3/4"	TO 3" ABOVE CEILING	X	
B1	2 X 6 @ 16" O.C.	6 3/4"	TO B.O. STRUCTURE	X	
B2	2 X 6 @ 16" O.C.	8 3/4"	TO B.O. STRUCTURE	X	TO B.O. CEILING



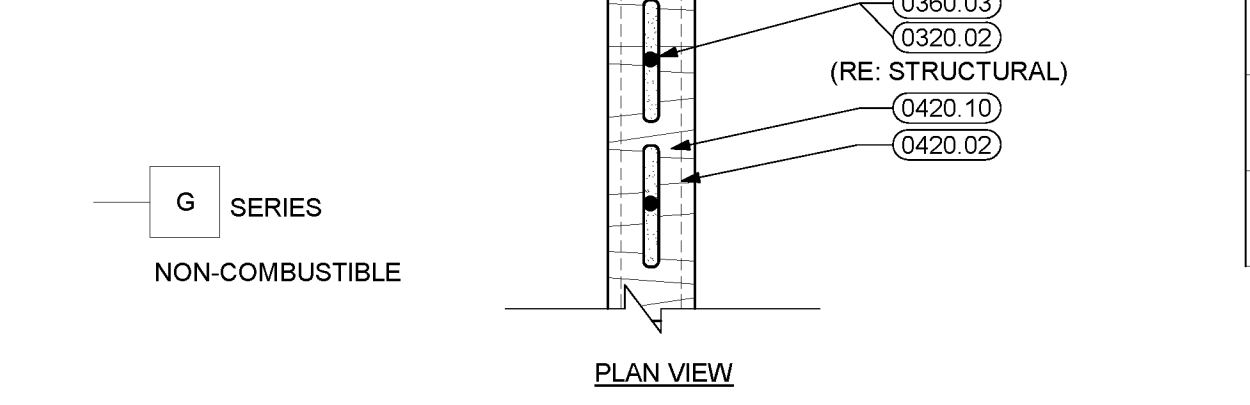
PTN TYPE	STUD	PART WIDTH	PART HEIGHT	W/ SOUND BATTS	NOTES
C	2 X 4 AT 16" O.C.	RE: PLAN 1'-2" MIN.	TO B.O. STRUCTURE	X	
C1	2 X 4 & 2 X 6 AT 16" O.C.	RE: PLAN 1'-2" MIN.	TO B.O. STRUCTURE	X	



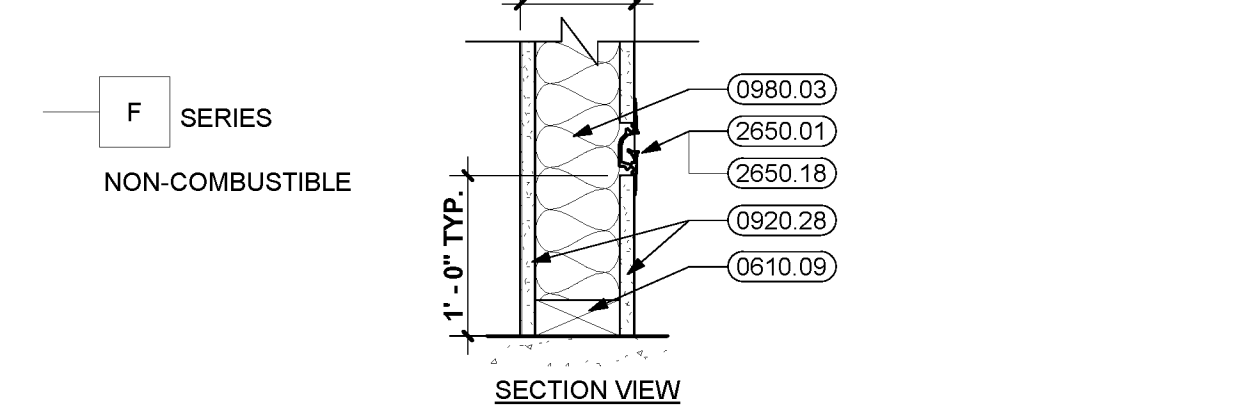
PTN TYPE	CMU WIDTH	PART WIDTH	PART HEIGHT	INSULATED	NOTES
D	6" NOMINAL	5 5/8"	TO 10' - 0" AFF	X	RE: STRUCTURAL FOR GROUTING REQUIREMENTS (TYP. ALL CMU)
D1	6" NOMINAL	5 5/8"	TO 10' - 8" AFF	X	
D2	6" NOMINAL	7 3/4"	TO 10' - 0" AFF	X	PUBLIC SIDE: 1 LAYER GYP BOARD ON 2 X 4 FURRING @ 16" O.C.
D3	6" NOMINAL	7 3/4"	TO 11' - 4" AFF	X	PUBLIC SIDE: 1 LAYER GYP BOARD ON 2 X 4 FURRING @ 16" O.C.
D4	6" NOMINAL	7 3/4"	TO 10' - 8" AFF	X	PUBLIC SIDE: 1 LAYER GYP BOARD ON 2 X 4 FURRING @ 16" O.C. 2 HR FIRE BARRIER @ OFFICE 108
D5	6" NOMINAL	9 7/8"	TO 10' - 8" AFF	X	BOTH SIDES: 1 LAYER GYP BOARD ON 2 X 4 FURRING @ 16" O.C. 2 HR FIRE BARRIER @ OFFICE 108



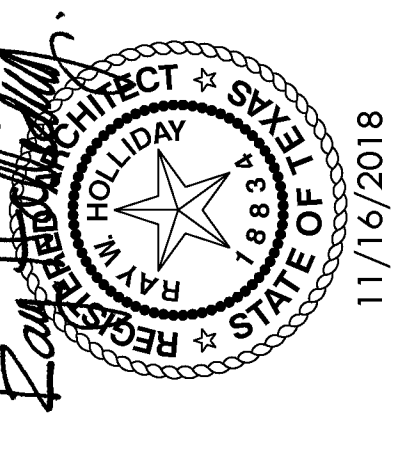
PTN TYPE	CMU WIDTH	PART WIDTH	PART HEIGHT	INSUL	NOTES
E	8" NOMINAL	7 5/8"	TO DECK	X	RE: STRUCTURAL FOR GROUTING REQUIREMENTS
E1	8" NOMINAL	9 3/4"	TO DECK	X	PUBLIC SIDE: 1 LAYER GYP BOARD ON 2 X 4 FURRING @ 16" O.C. (TO 7" ABOVE CEILING) RE: STRUCTURAL
E2	8" NOMINAL	11 7/8"	TO DECK	X	BOTH SIDES: 1 LAYER GYP BOARD ON 2 X 4 FURRING @ 16" O.C. (TO 7" ABOVE CEILING) RE: STRUCTURAL



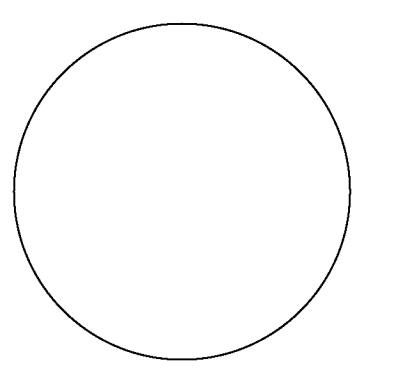
PTN TYPE	CMU WIDTH	PART WIDTH	PART HEIGHT	INSULATED	NOTES
G	6" NOMINAL	5 5/8"	TO 10' - 0" AFF		



PTN TYPE	STUD	PART WIDTH	PART HEIGHT	W/ SOUND BATTS	NOTES
F	2X4 STUDS @ 16" O.C.	4 3/4"	TO B.O. STRUCTURE	X	LINEAR LED ACCENT LIGHTING SYSTEM CONTINUOUS RECTIONS CORRIDOR SIDE. RE: ELECTRICAL. AVAIL. FIRE RESISTANCE: 1/2 HR



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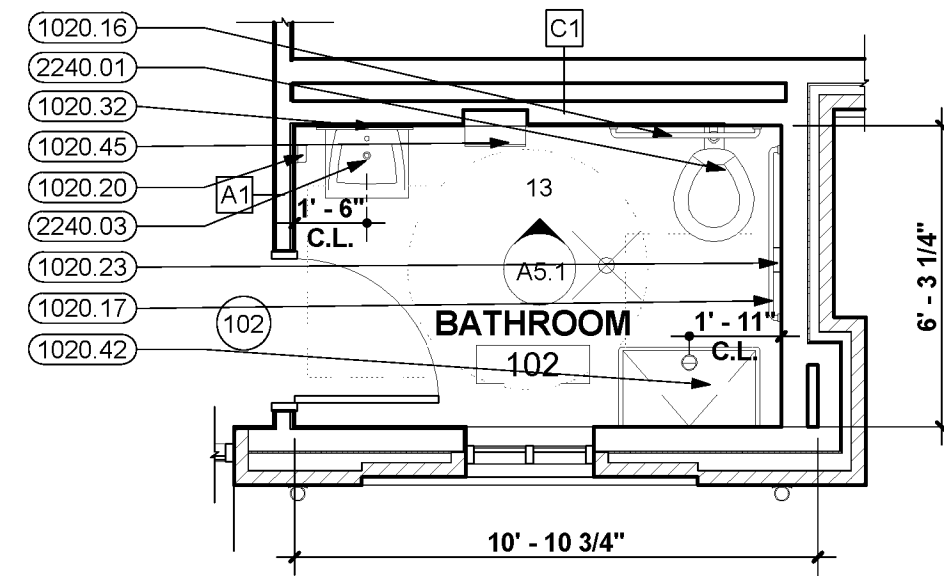
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BRW PROJECT NUMBER 218044.00

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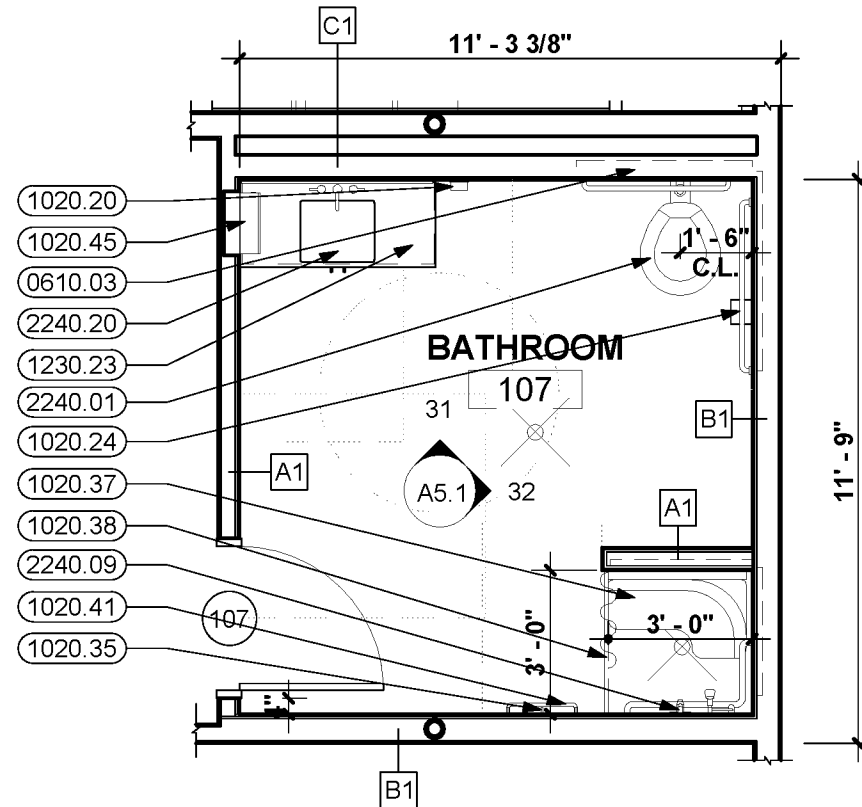
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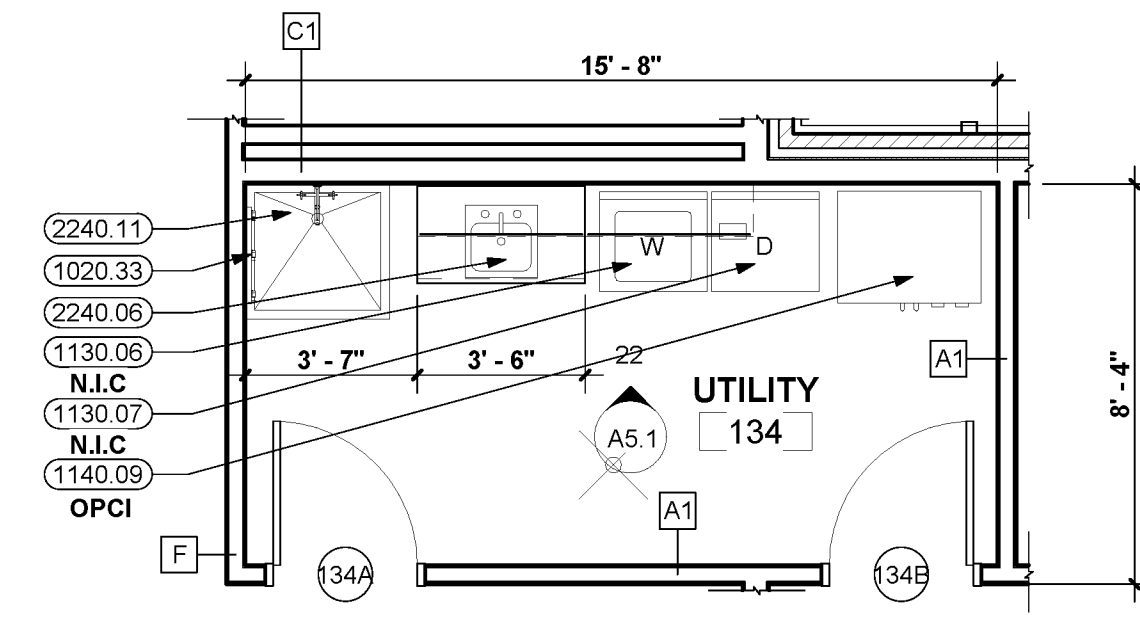
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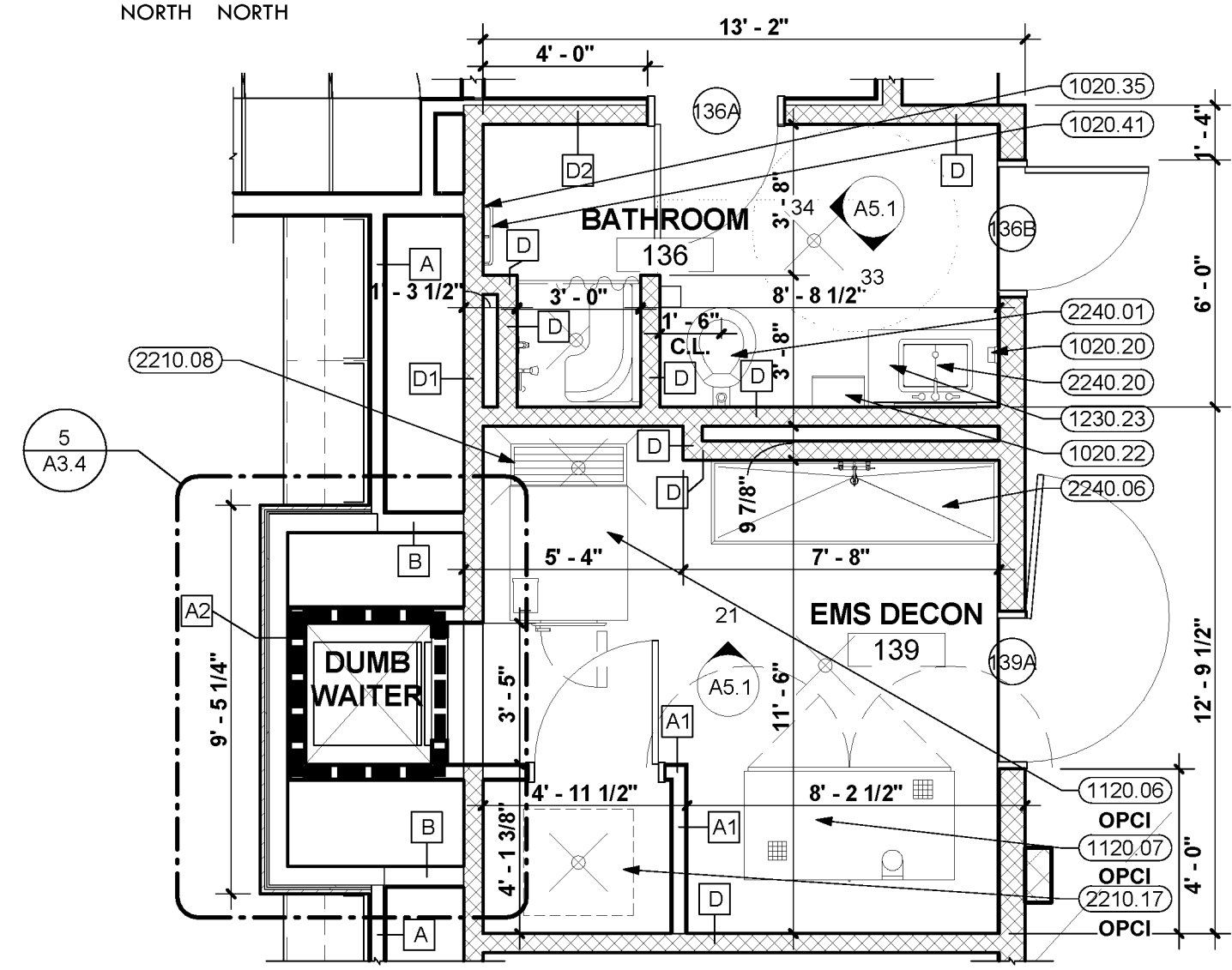
4 ENLARGED PLAN
1/4" = 1'-0"
PLAN TRUE
NORTH NORTH



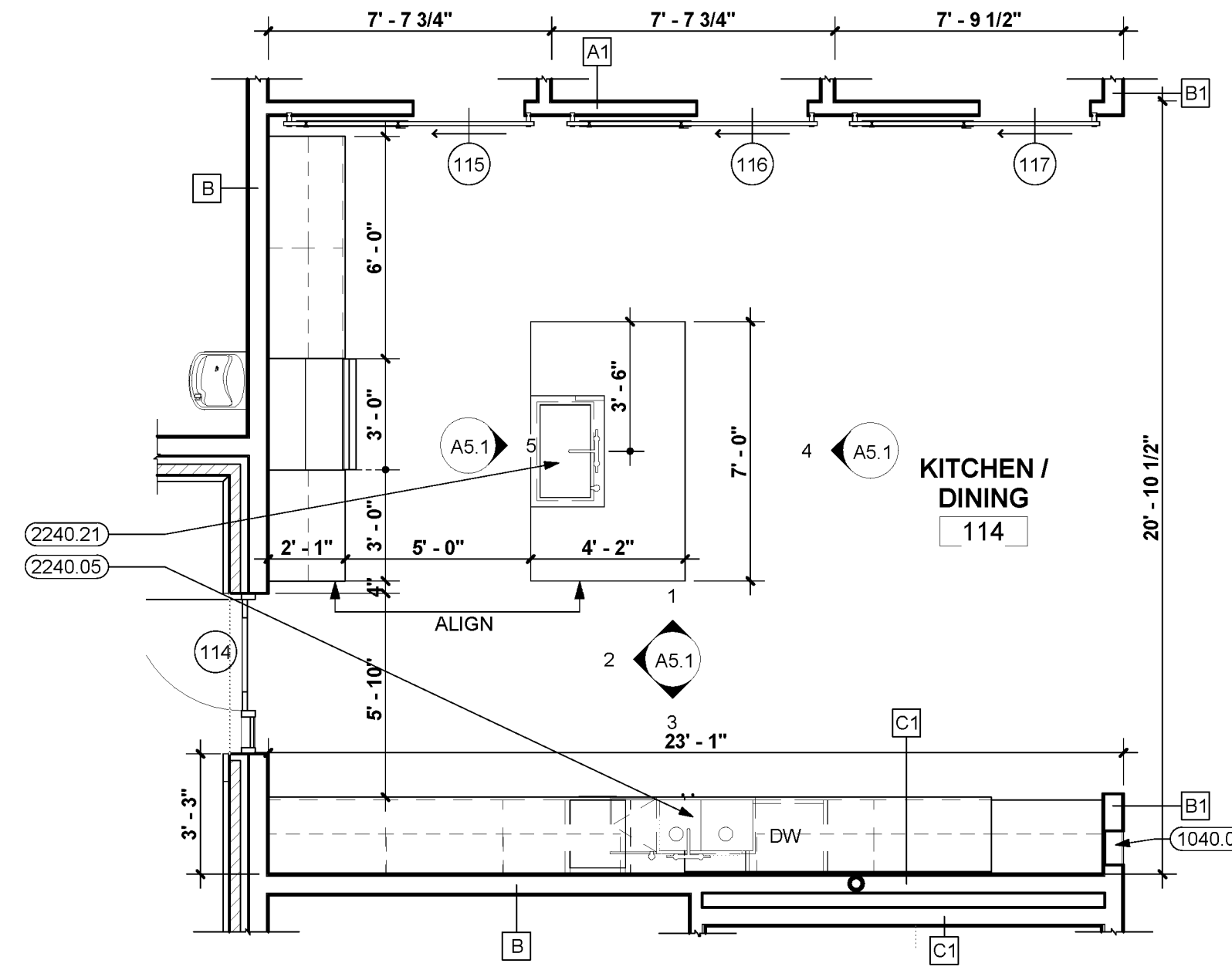
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PLAN TRUE
NORTH NORTH



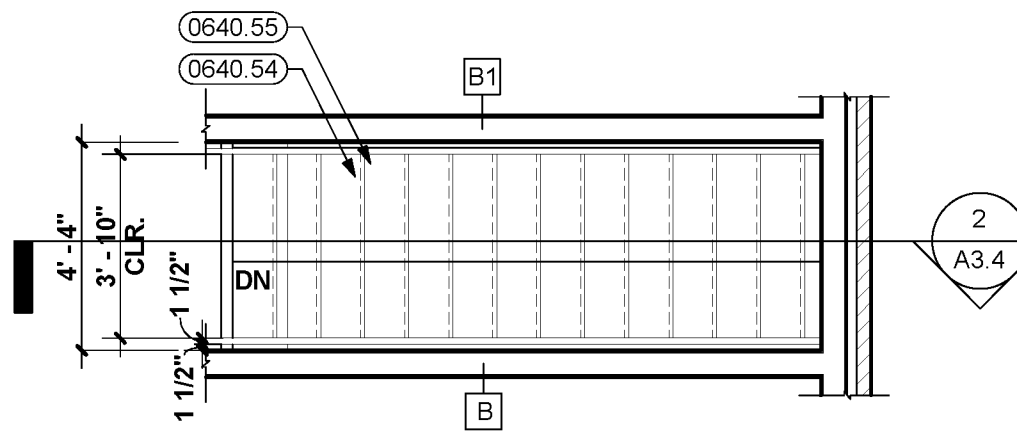
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PLAN TRUE
NORTH NORTH



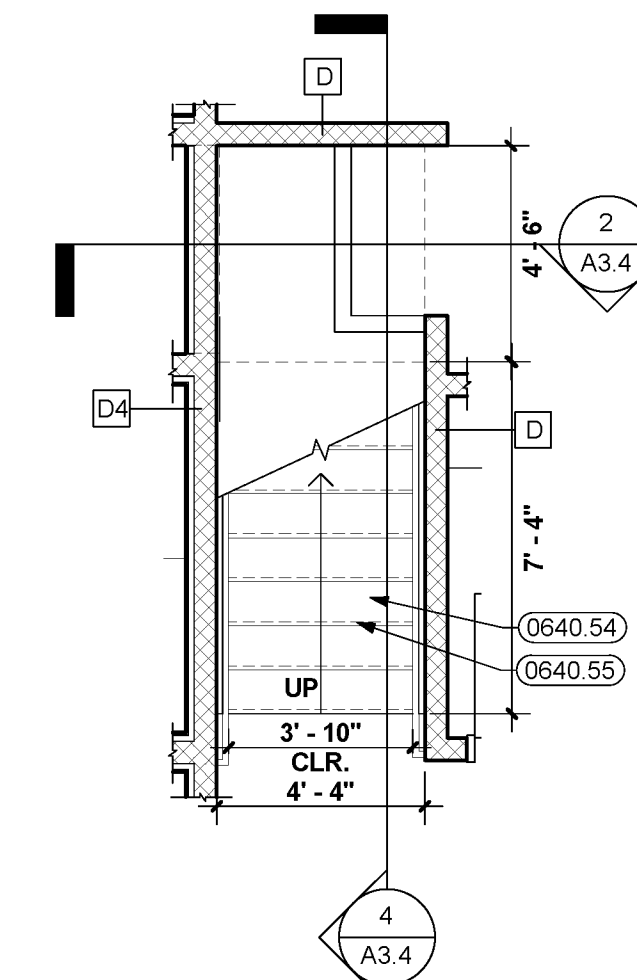
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PLAN TRUE
NORTH NORTH



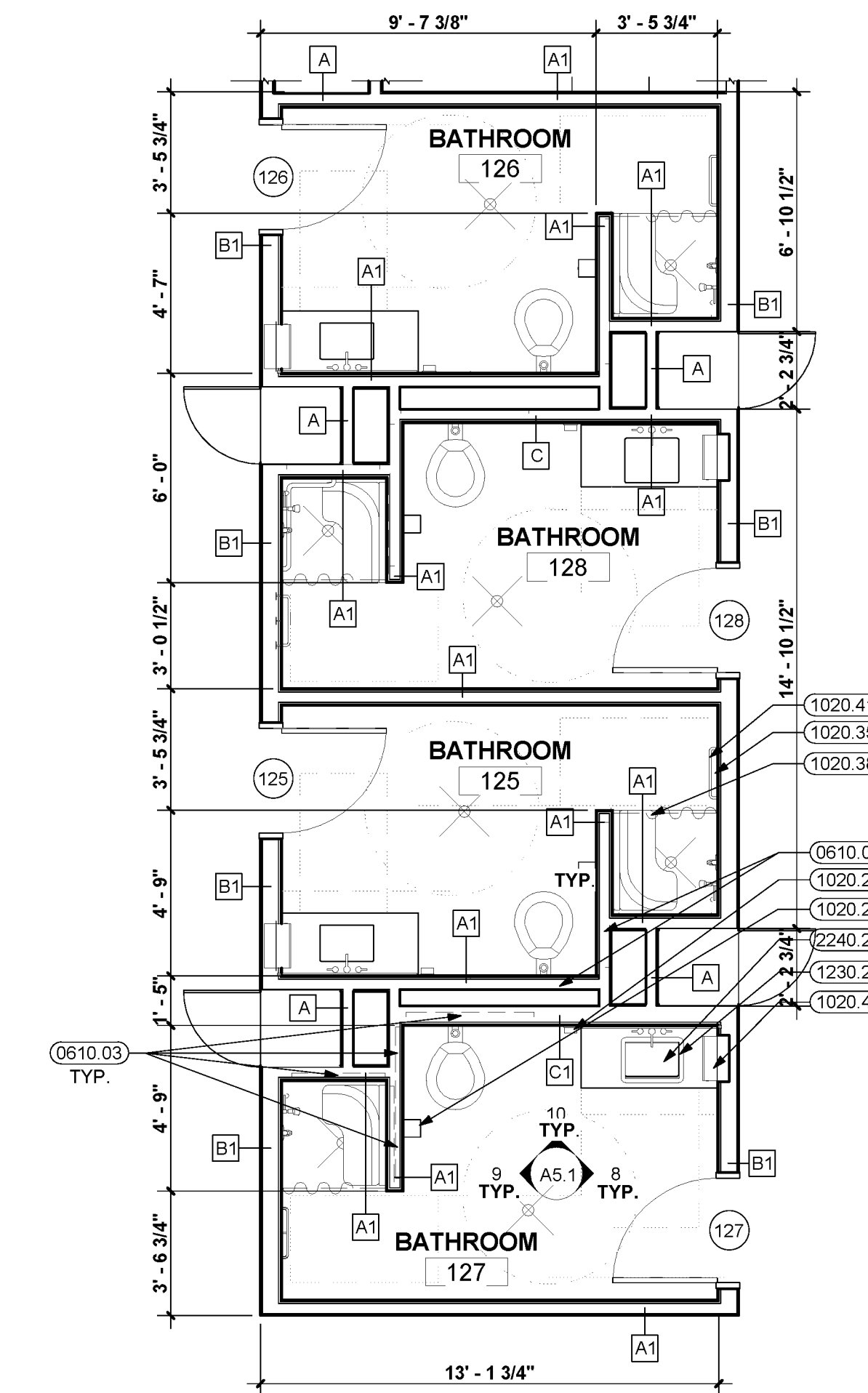
2 ENLARGED PLAN
1/4" = 1'-0"
PLAN TRUE
NORTH NORTH



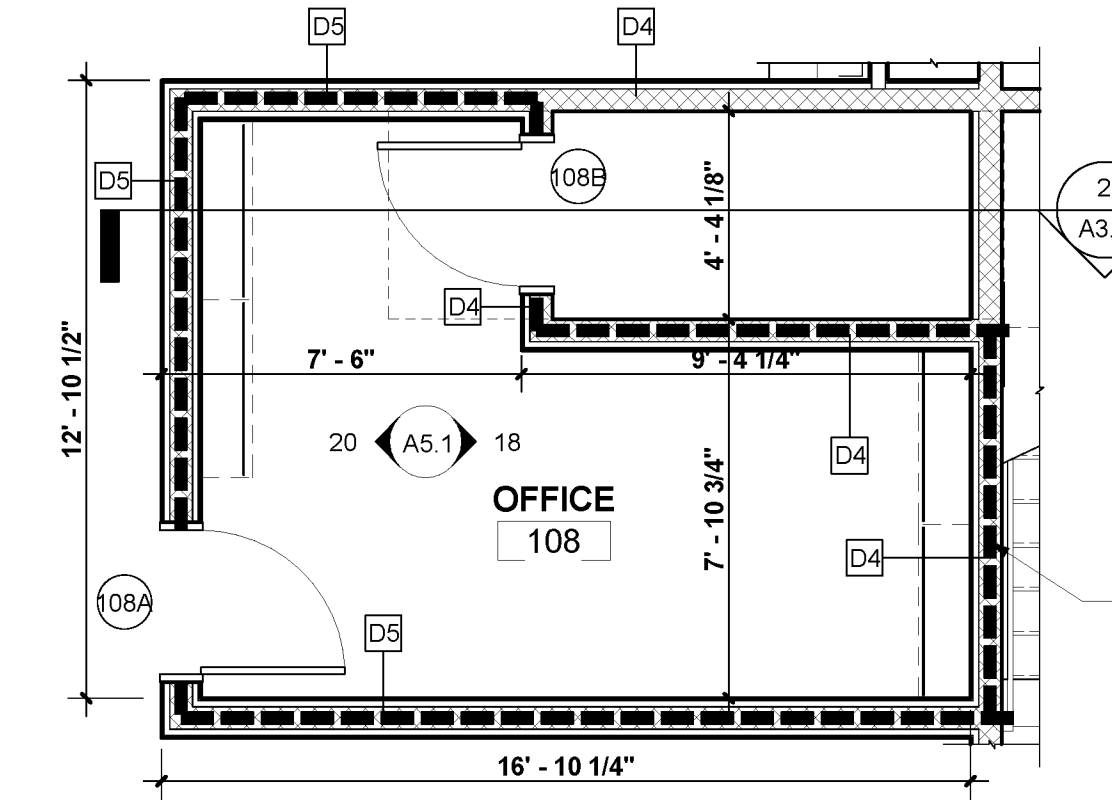
9 ENLARGED PLAN
1/4" = 1'-0"
PLAN TRUE
NORTH NORTH



8 ENLARGED PLAN
1/4" = 1'-0"
PLAN TRUE
NORTH NORTH



1 ENLARGED PLAN
1/4" = 1'-0"
PLAN TRUE
NORTH NORTH



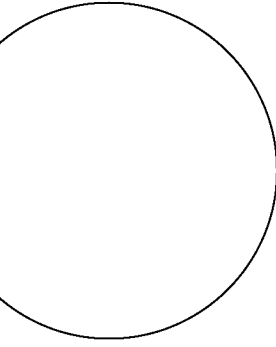
7 ENLARGED PLAN
1/4" = 1'-0"
PLAN TRUE
NORTH NORTH

KEYNOTES

- 0610.03 2X WOOD BLOCKING
- 0640.54 WOOD STAIR TREAD
- 0540.55 WOOD STAIR RISER
- 1020.16 STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (36" LONG)
- 1020.17 STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (42" LONG)
- 1020.20 SOAP DISPENSER (SURFACE-MOUNTED)
- 1020.22 STAINLESS STEEL PAPER TOWEL DISPENSER (SURFACE-MOUNTED)
- 1020.23 STAINLESS STEEL SEMI-RECESSED TOILET PAPER DISPENSER
- 1020.24 STAINLESS STEEL SURFACE MOUNTED TOILET PAPER DISPENSER
- 1020.32 STAINLESS STEEL FRAMED MIRROR
- 1020.33 STAINLESS STEEL MOP RACK
- 1020.35 ROBE / TOWEL HOOK
- 1020.37 WALL-MOUNTED FOLDING SHOWER SEAT PROVIDED BLOCKING IN WALL AS REQUIRED
- 1020.38 STAINLESS STEEL SHOWER CURTAIN ROD WITH VINYL CURTAIN AND HOOKS
- 1020.41 WALL MOUNTED TOWEL BAR
- 1020.42 WALL MOUNTED BABY CHANGING STATION
- 1020.45 STAINLESS STEEL SEMI-RECESSED PAPER TOWEL DISPENSER
- 1040.03 FIRE EXTINGUISHER AND SEMI-RECESSED CABINET
- 1120.06 CLOTHES EXTRACTOR
- 1120.07 BUNKER GEAR DRYING CABINET
- 1130.06 WASHING MACHINE
- 1130.07 CLOTHES DRYER
- 1140.09 ICE MACHINE
- 1230.23 QUARTZ COUNTERTOP WITH SPLASH AS SHOWN
- 2210.08 TRAFFIC RATED TRENCH DRAIN
- 2210.17 AIR COMPRESSOR/TANK (RE MECHANICAL)
- 2240.01 WATER CLOSET ORIENT FLUSH VALVE TOWARDS ACCESSIBLE SPACE AT ACCESSIBLE STALLS / RESTROOMS
- 2240.03 WALL-HUNG LAVATORY WITH CARRIER
- 2240.05 STAINLESS STEEL UNDERMOUNT SINK
- 2240.06 STAINLESS STEEL SINK
- 2240.09 SHOWER HEAD
- 2240.11 MOP SINK
- 2240.20 UNDERMOUNT SINK
- 2240.21 ADA COMPLIANT KITCHEN SINK



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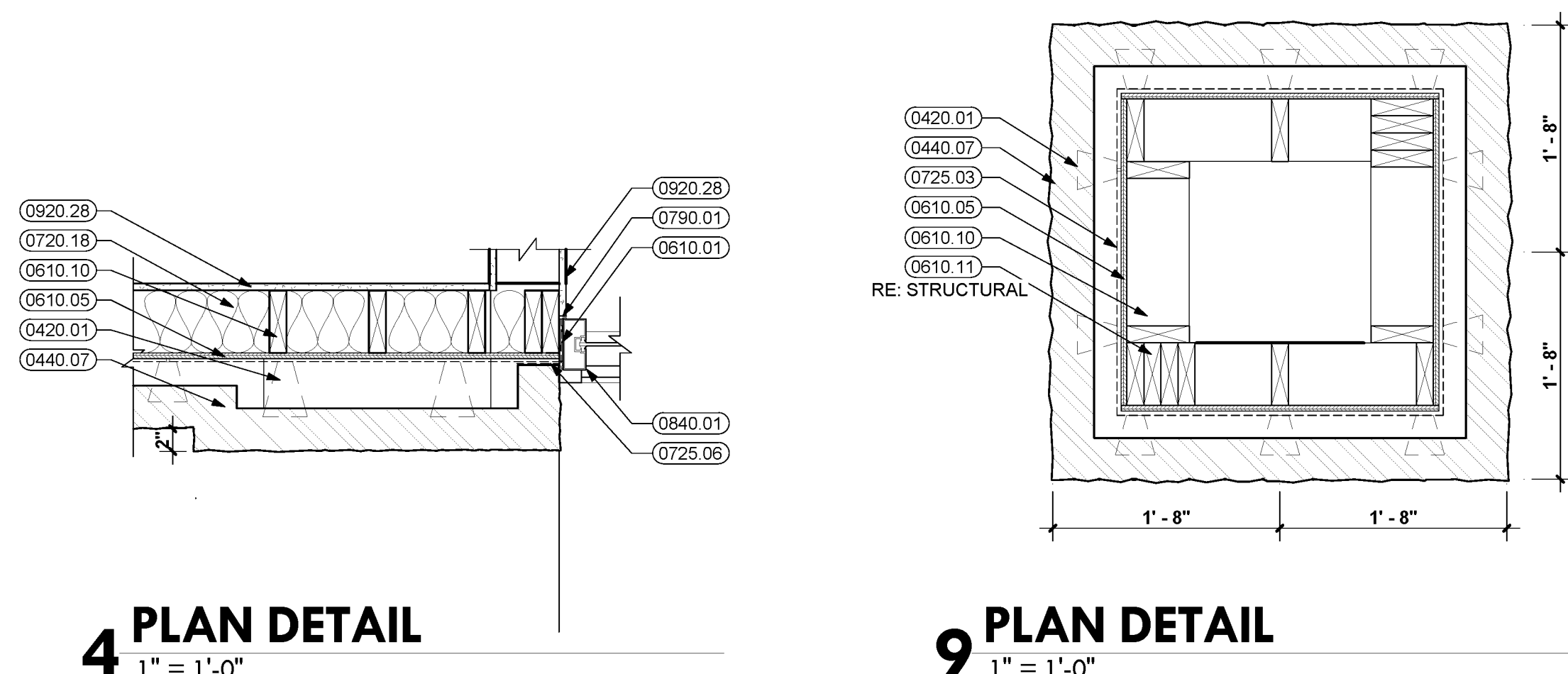
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BRW PROJECT NUMBER 21 8044.00

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FIRE STATION No. 7
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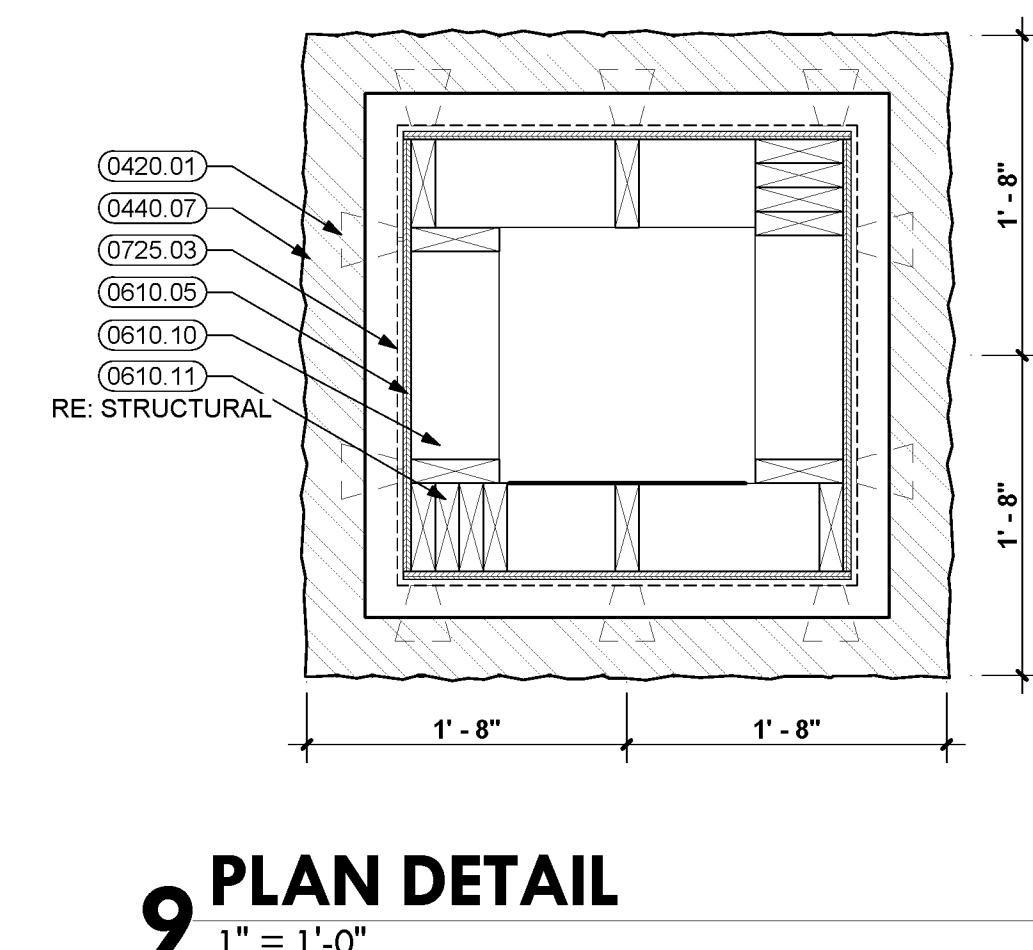
NO.	REVISION	DATE

A1.2

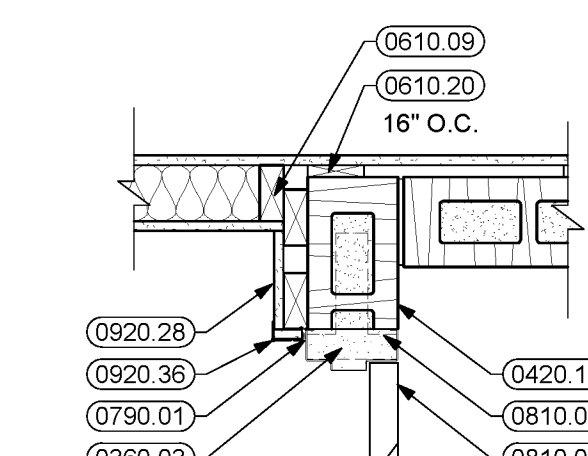
ENLARGED PLANS



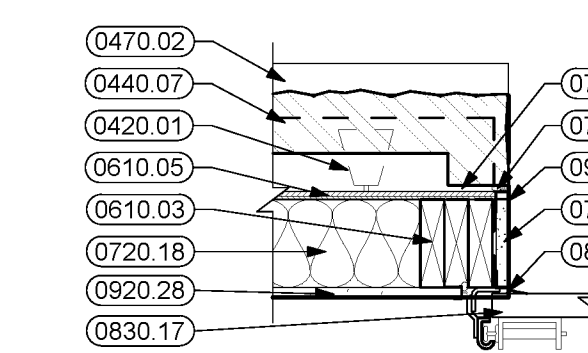
4 PLAN DETAIL
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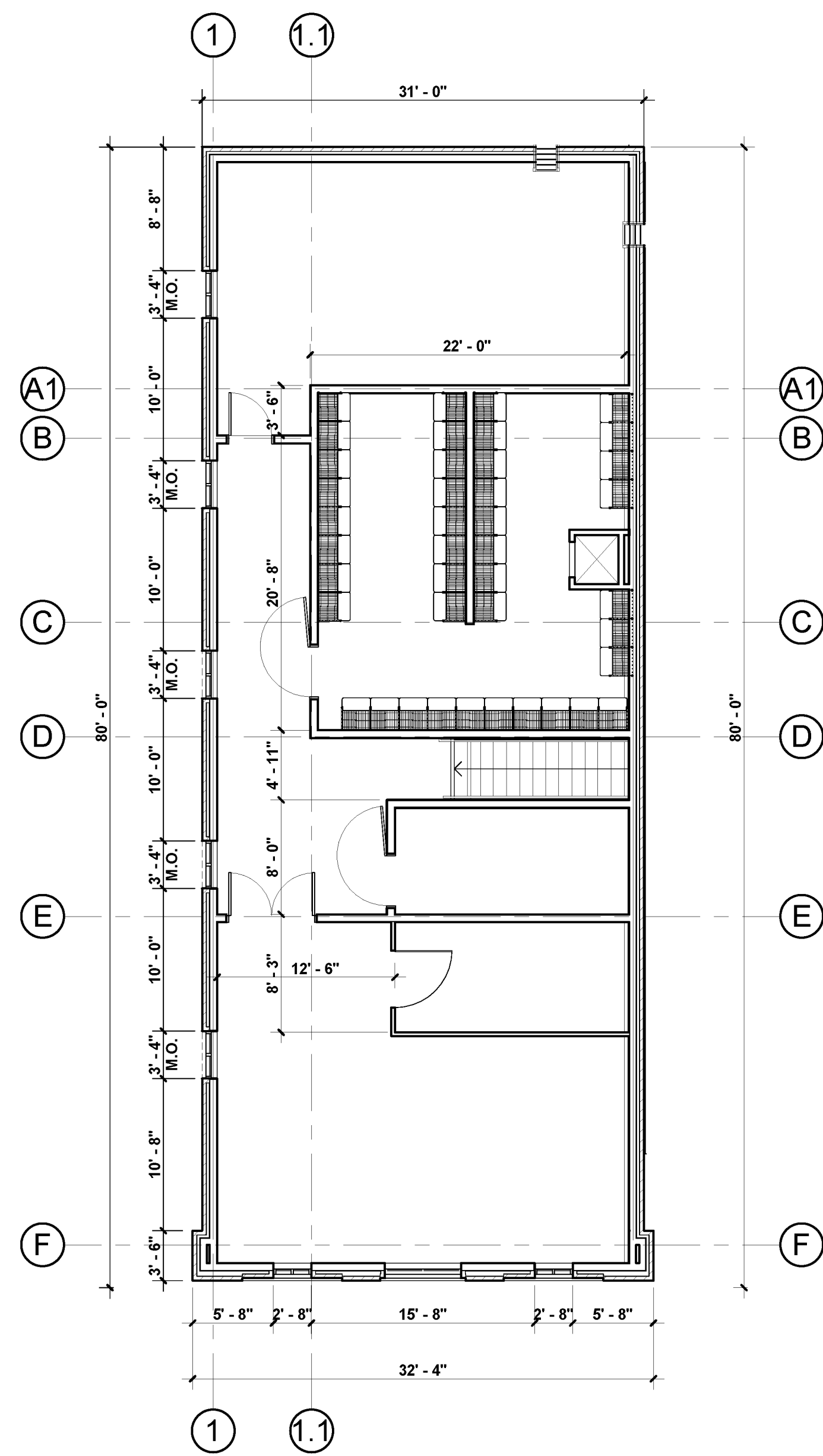
9 PLAN DETAIL
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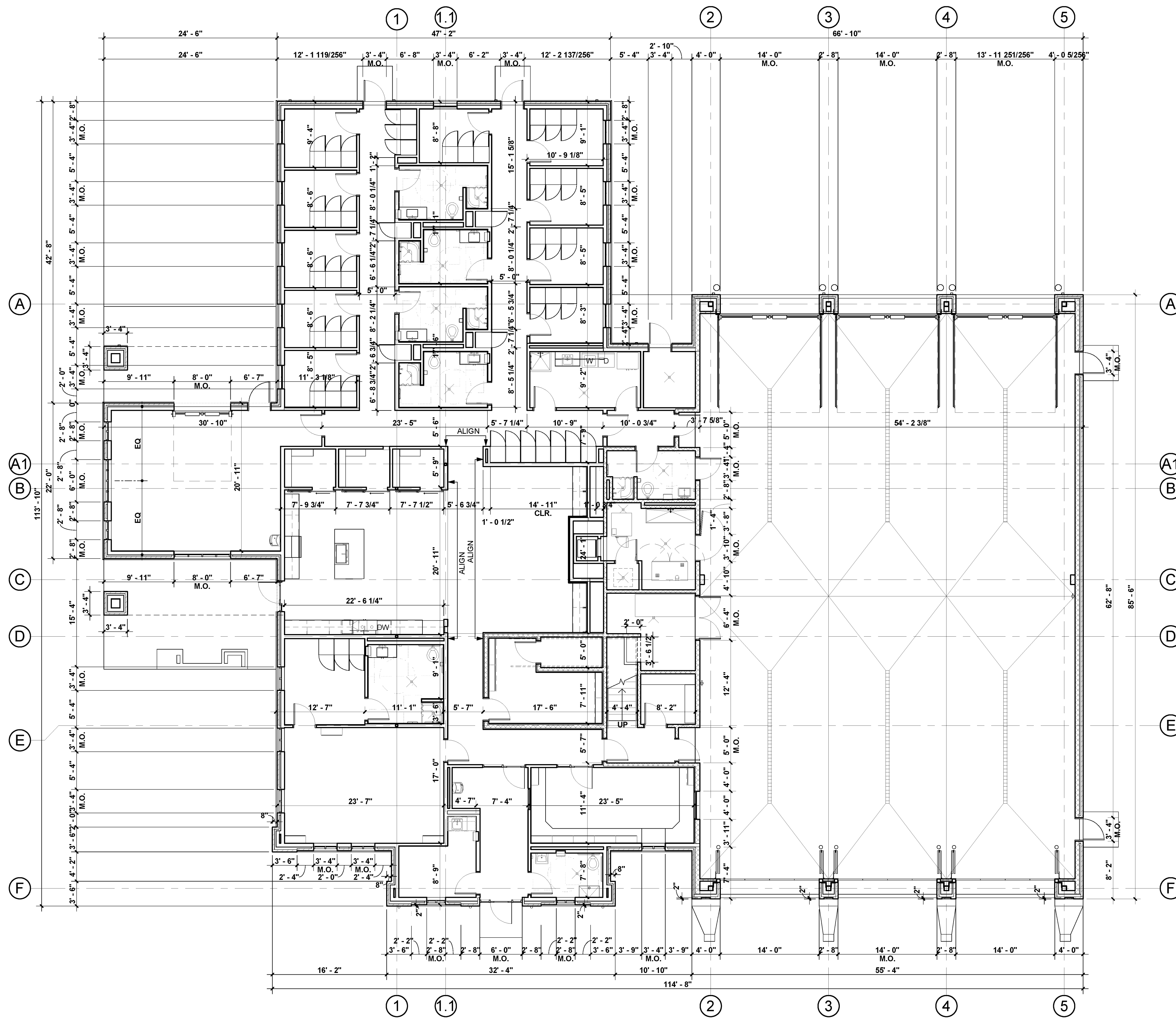
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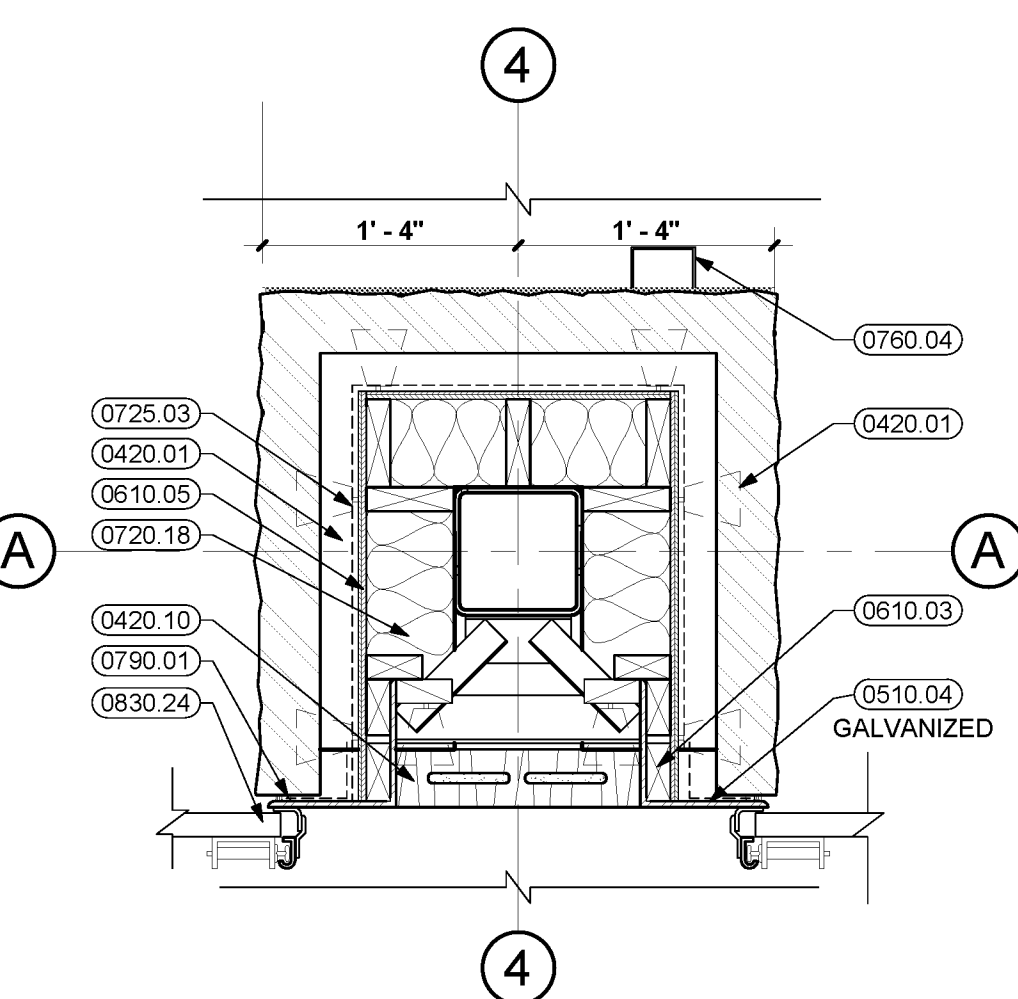
10 PLAN DETAIL
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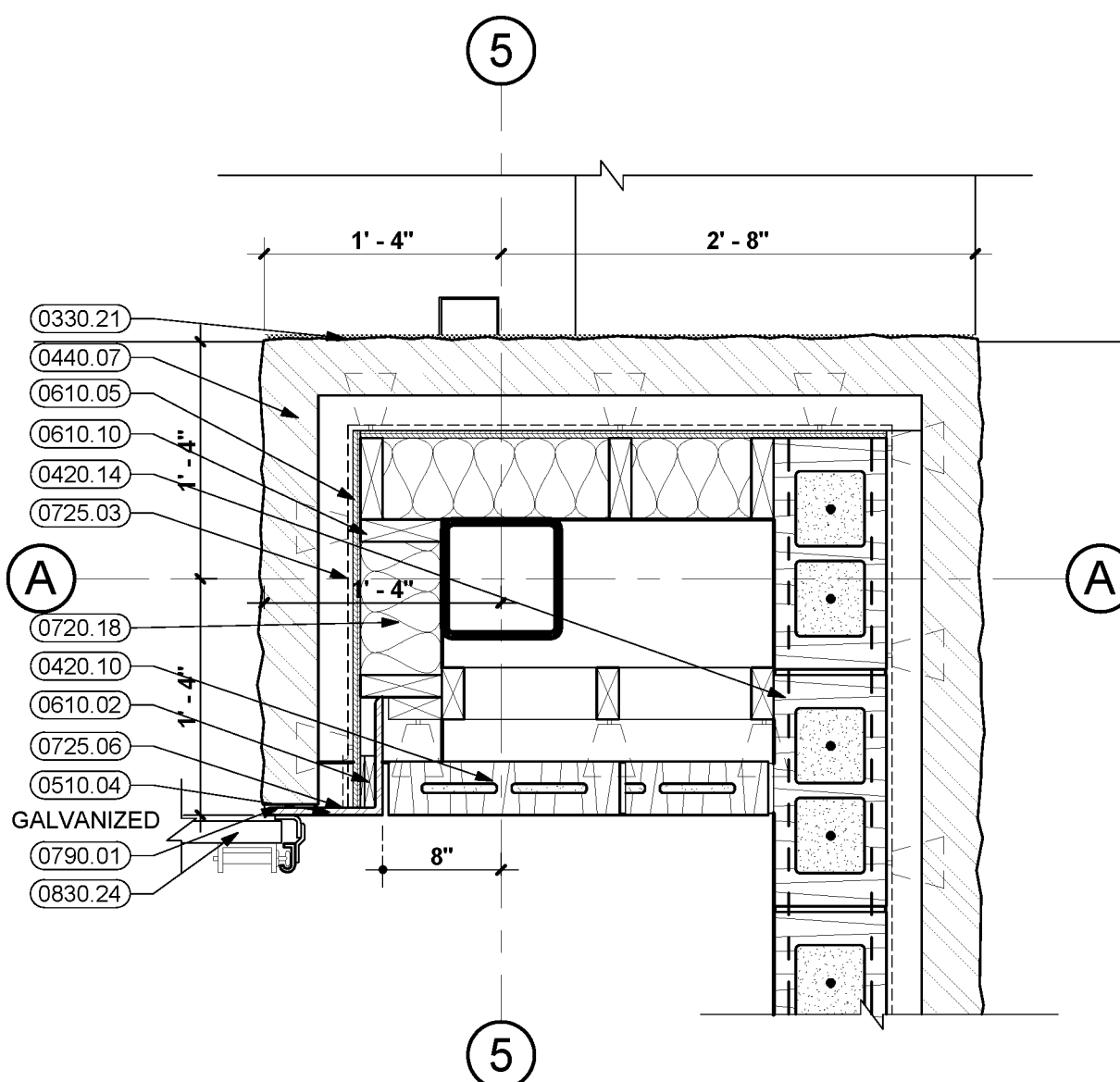
2 SECOND FLOOR DIMENSION PLAN
1/8" = 1'-0"



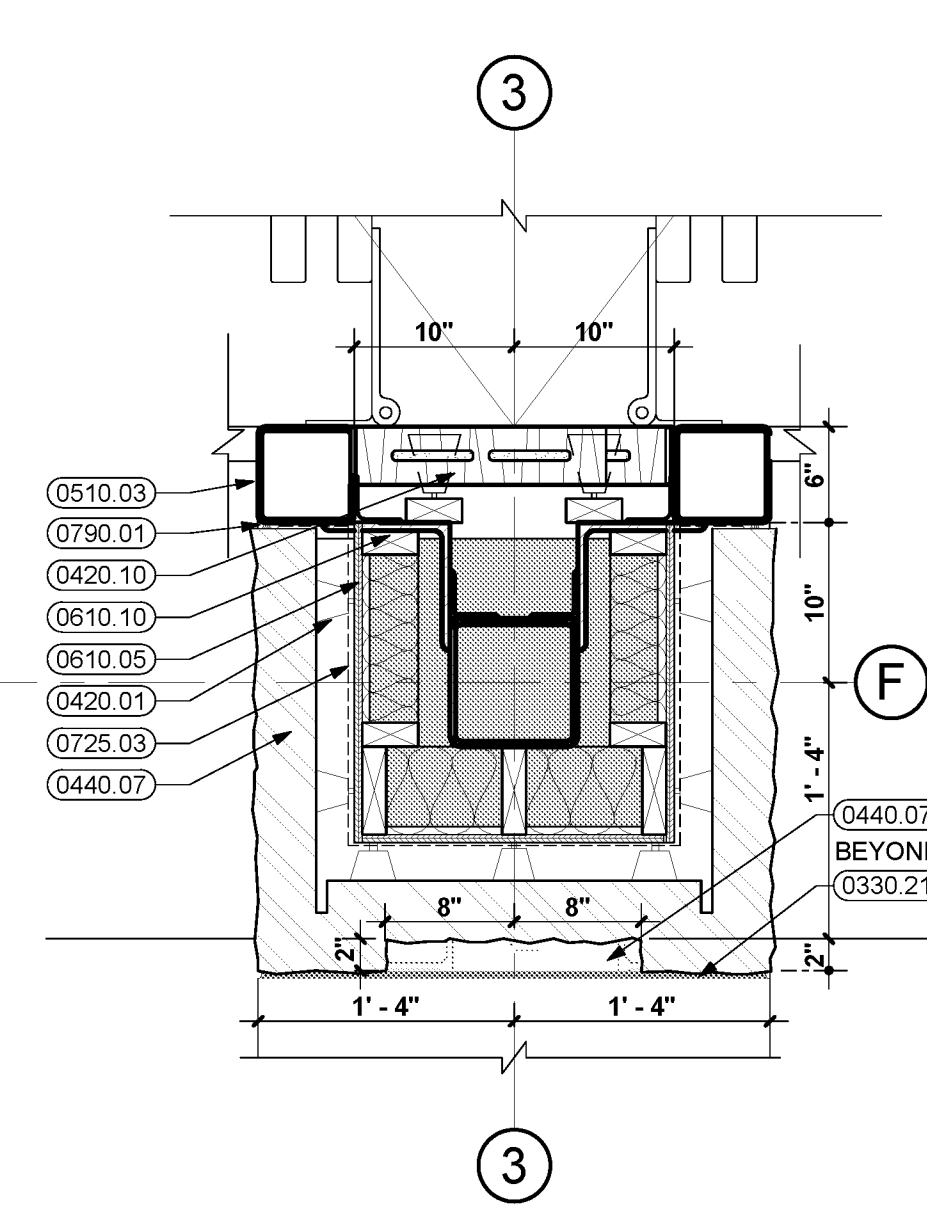
1 FIRST FLOOR DIMENSION PLAN
1/8" = 1'-0"



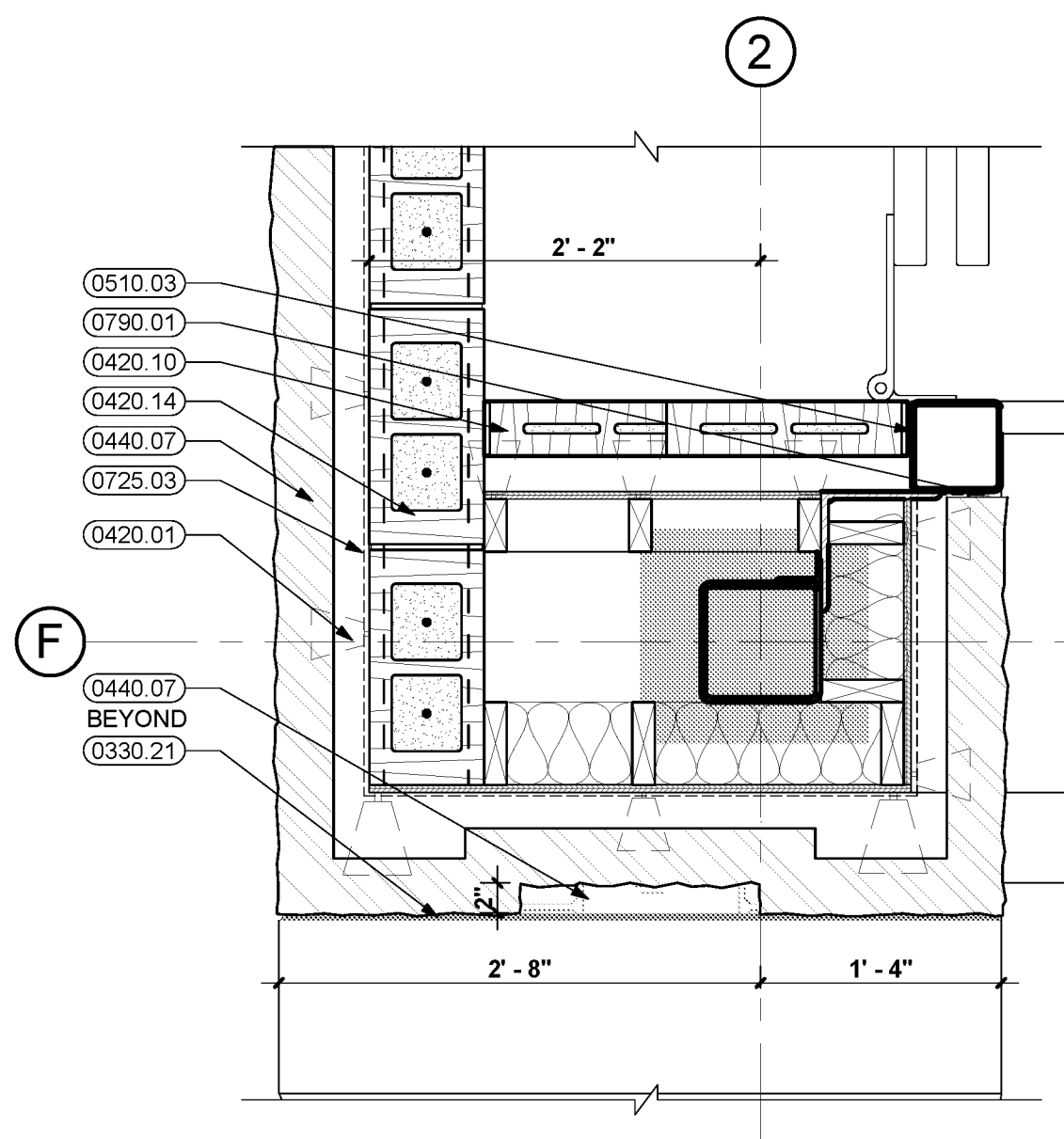
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1" = 1'-0"



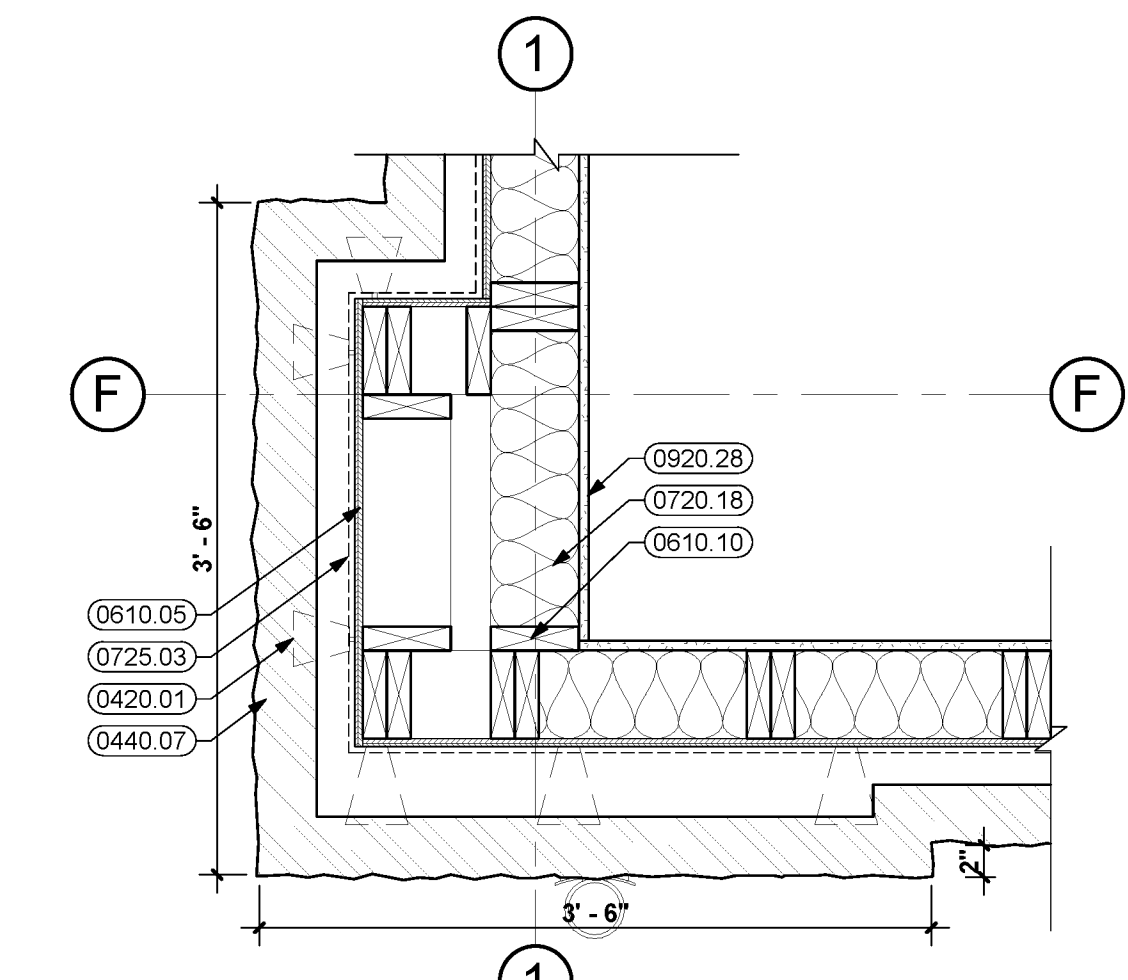
12 PLAN DETAIL
1" = 1'-0"



7 PLAN DETAIL
1" = 1'-0"

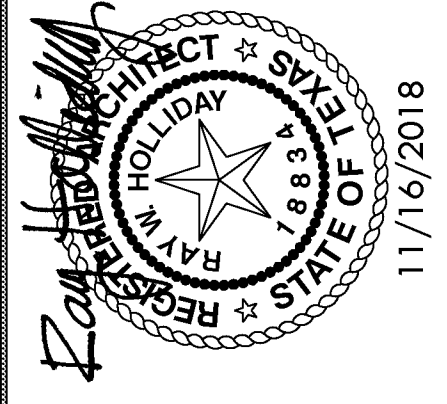


8 PLAN DETAIL
1" = 1'-0"



6 PLAN DETAIL
1" = 1'-0"

- KEYNOTES**
- 0330.21 CONCRETE EXPANSION JOINT - FILL W/ JOINT SEALER 1/4" BELOW SURFACE
 - 0360.03 FILL WITH GROUT
 - 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
 - 0420.10 4" CONCRETE MASONRY UNITS
 - 0420.14 8" CONCRETE MASONRY UNITS
 - 0440.07 STONE VENEER
 - 0470.02 CAST STONE STRING COURSE
 - 0510.03 STEEL TUBE COLUMN (RE: STRUCTURAL)
 - 0510.04 STEEL ANGLE (RE: STRUCTURAL)
 - 0610.01 SHIMS AS REQUIRED
 - 0610.02 1X WOOD BLOCKING
 - 0610.03 2X WOOD BLOCKING
 - 0610.05 1/2" EXTERIOR GRADE PLYWOOD
 - 0610.09 2 X 4 WOOD STUDS AT 16" O.C.
 - 0610.10 2 X 6 WOOD STUDS AT 16" O.C.
 - 0610.11 2 X 6 WOOD FRAMING
 - 0610.20 1X WOOD FURRING STRIP
 - 0720.18 5 1/2" BATT INSULATION
 - 0725.03 PLASTIC FILM AIR BARRIER
 - 0725.06 SELF-ADHERING FLEXIBLE SURROUND FLASHING
 - 0740.20 FIBER REINFORCED CEMENTITIOUS TRIM
 - 0760.04 PREFINISHED METAL DOWNSPOUT
 - 0760.01 SEALANT WITH BACKER ROD AS REQUIRED
 - 0810.04 HOLLOW METAL DOOR AND FRAME
 - 0810.05 JAMB ANCHOR (3 PER JAMB)
 - 0830.17 SECTIONAL DOOR
 - 0830.24 UPWARD-ACTING SECTIONAL DOOR
 - 0840.01 ALUMINUM STOREFRONT
 - 0870.03 BRUSH SEAL
 - 0920.28 5/8" GYPSUM BOARD (TYPE X)
 - 0920.36 J-MOULD, TYPICAL
 - 0920.38 PRE-MANUFACTURED CONTINUOUS ALUMINUM F-REVEAL MOLDING

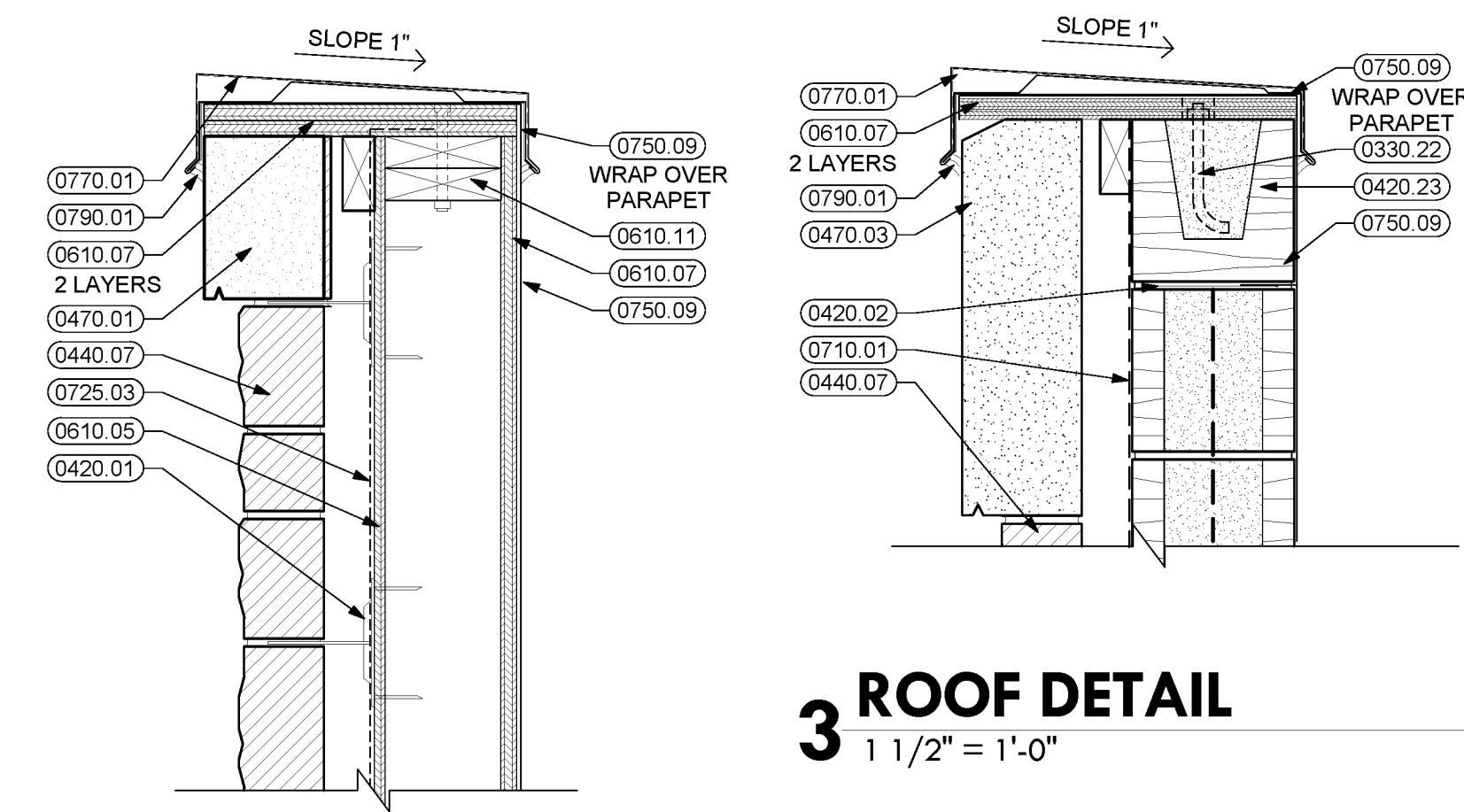


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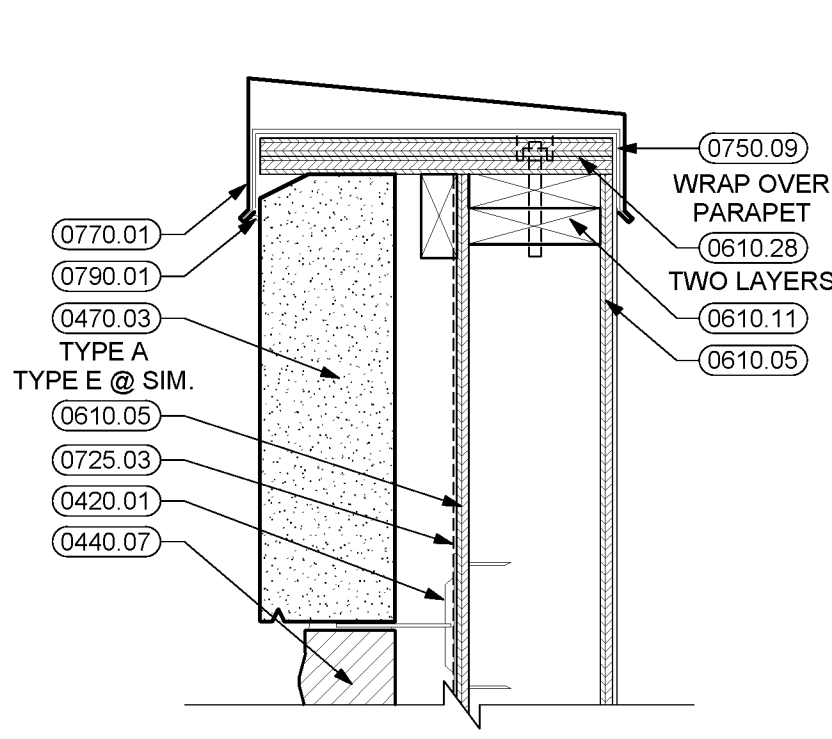
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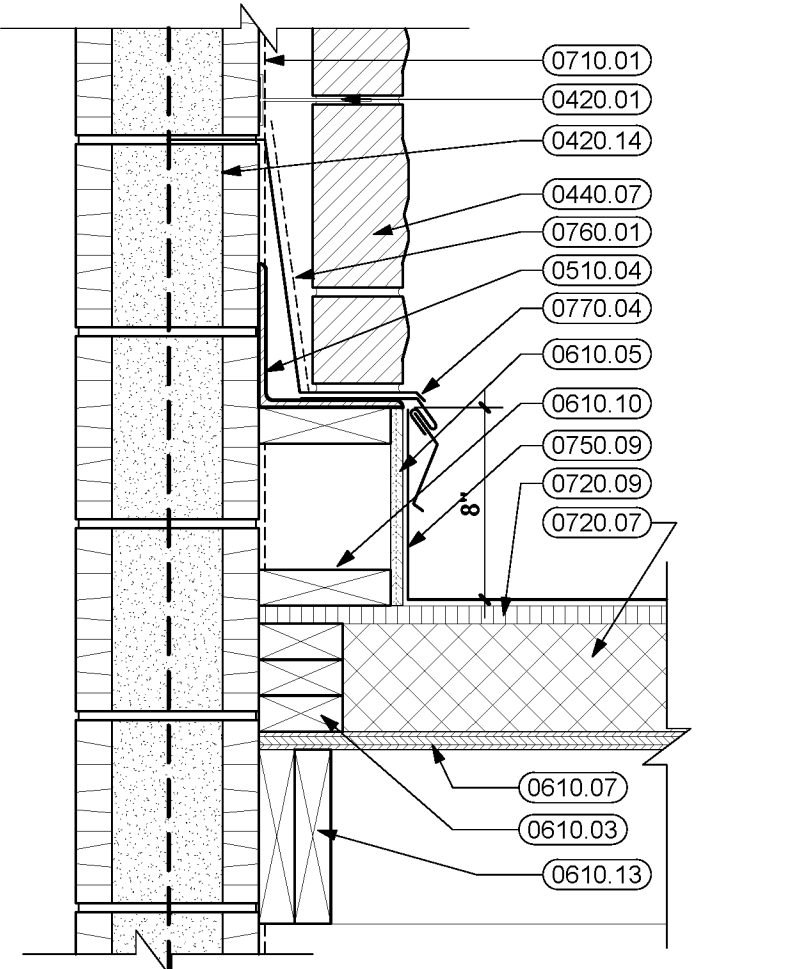


3 ROOF DETAIL
1 1/2" = 1'-0"

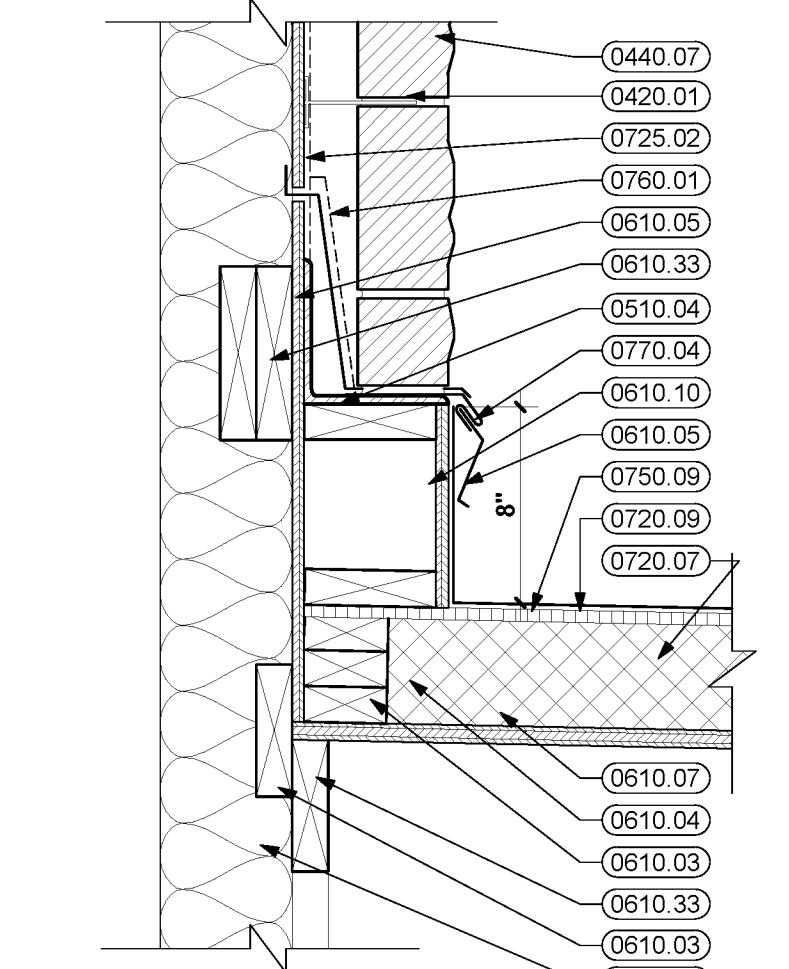


2 ROOF DETAIL
1 1/2" = 1'-0"

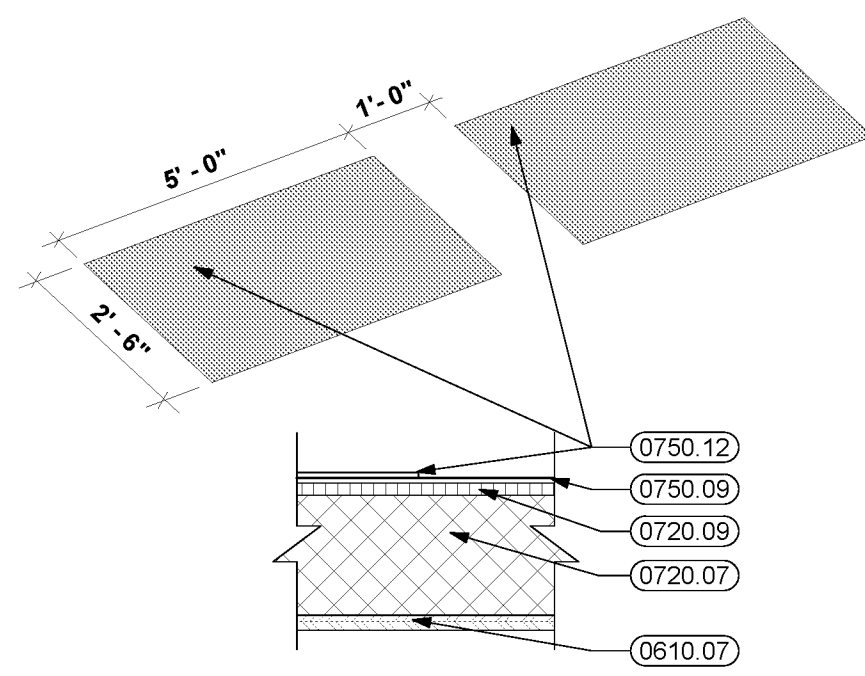
4 ROOF DETAIL
1 1/2" = 1'-0"



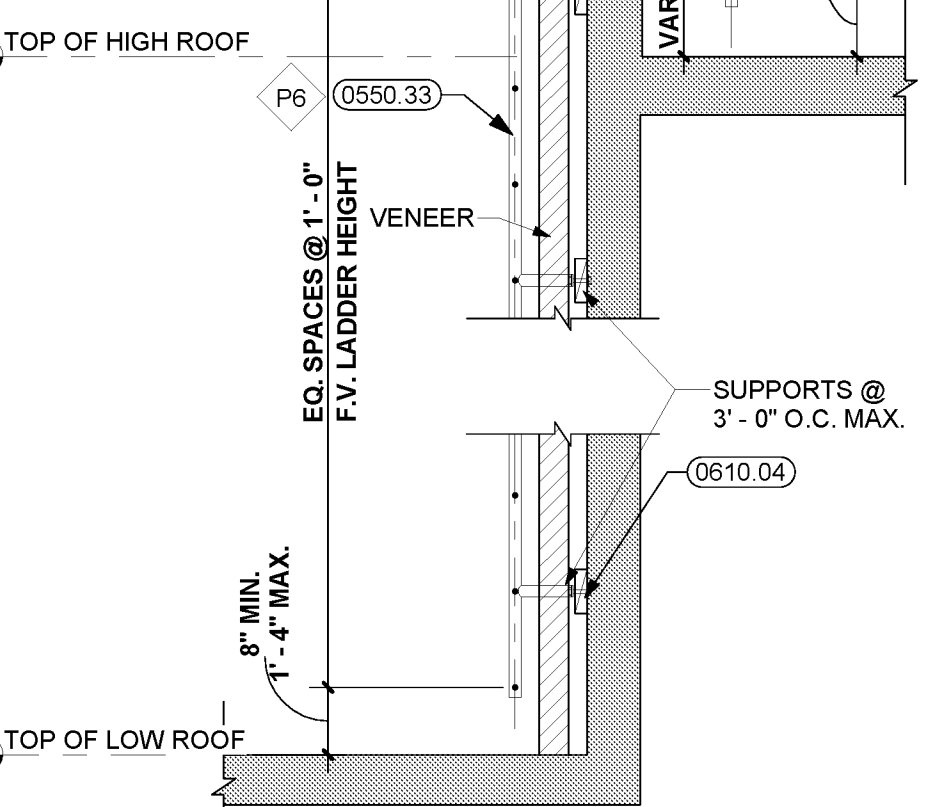
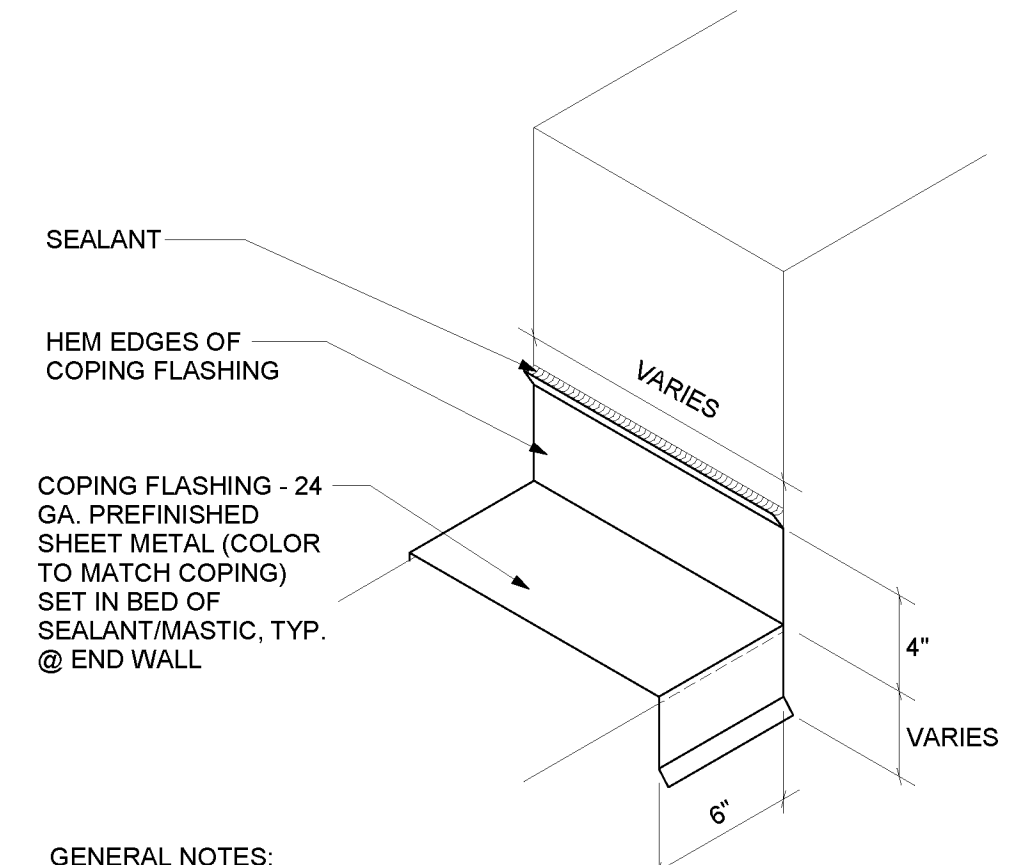
6 ROOF DETAIL
1 1/2" = 1'-0"



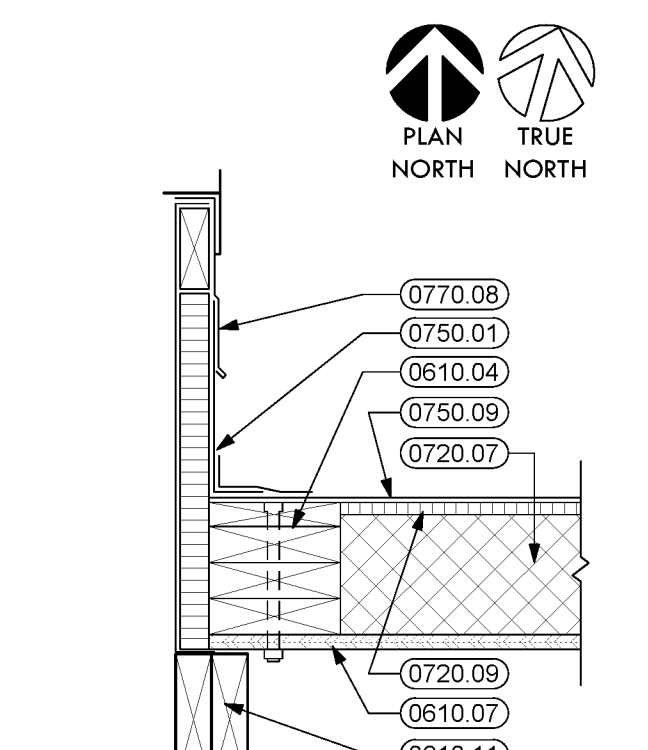
5 ROOF DETAIL
1 1/2" = 1'-0"



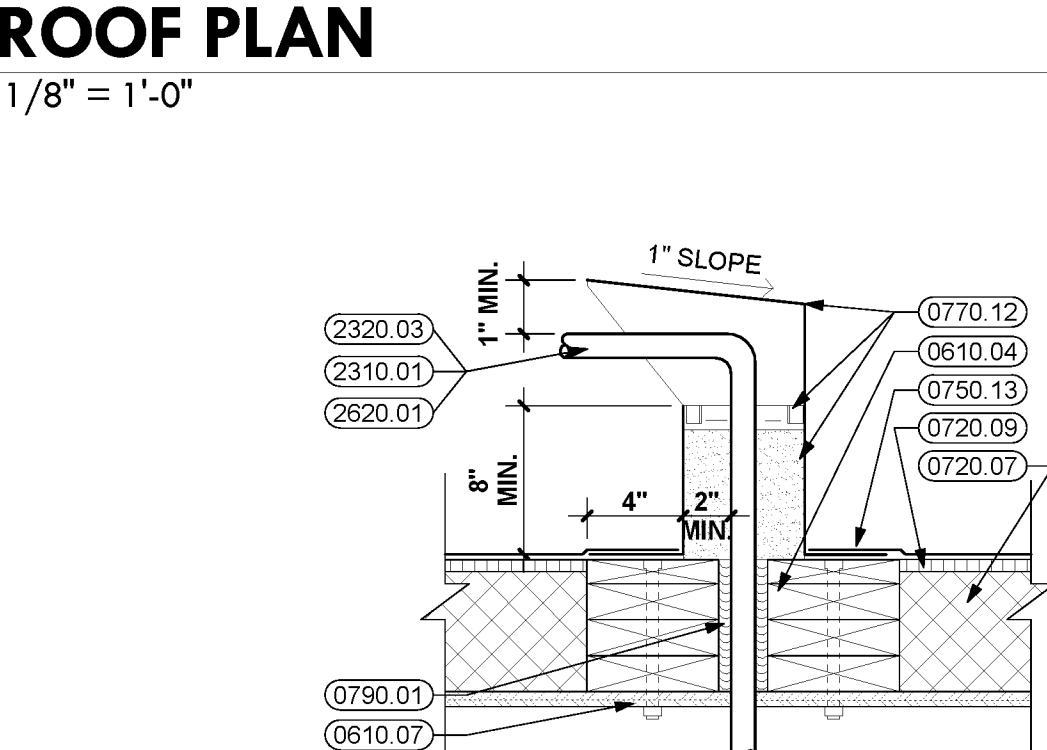
7 WALK PAD
1 1/2" = 1'-0"



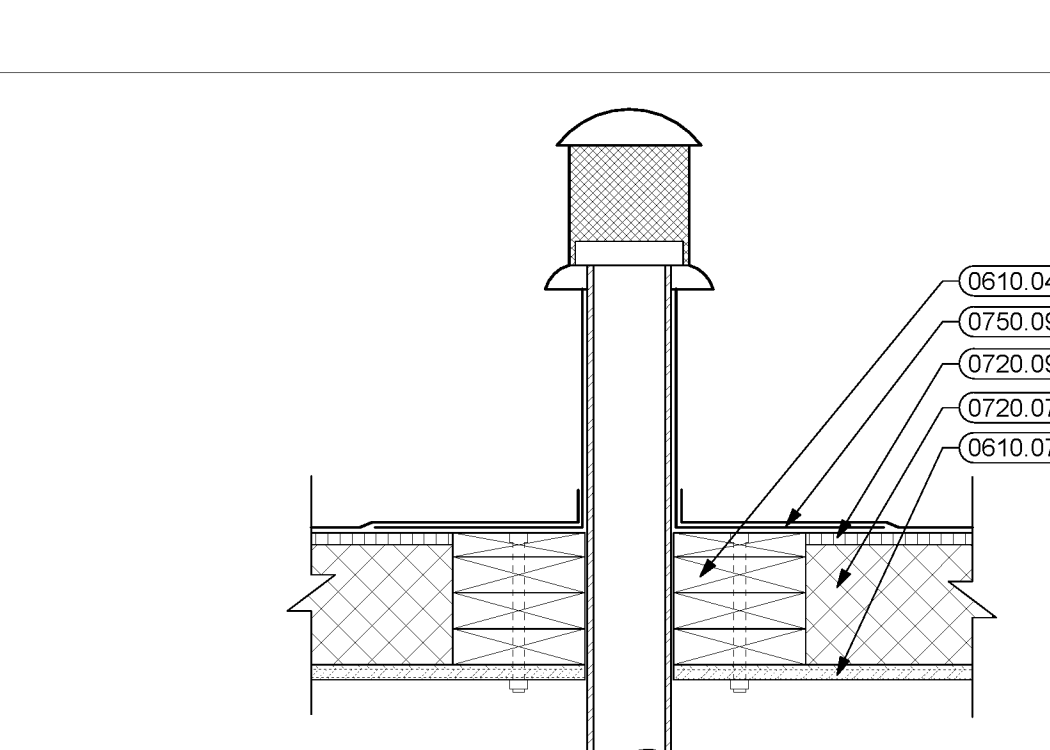
12 PARAPET LADDER
1 1/2" = 1'-0"



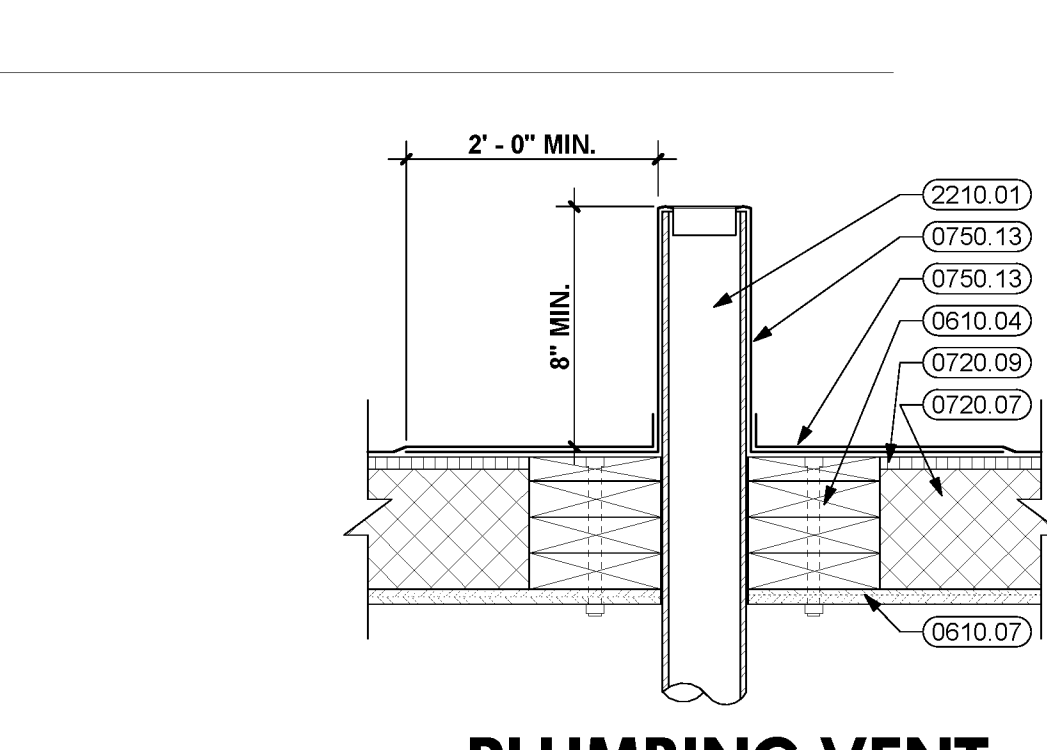
11 EQUIPMENT CURB
1 1/2" = 1'-0"



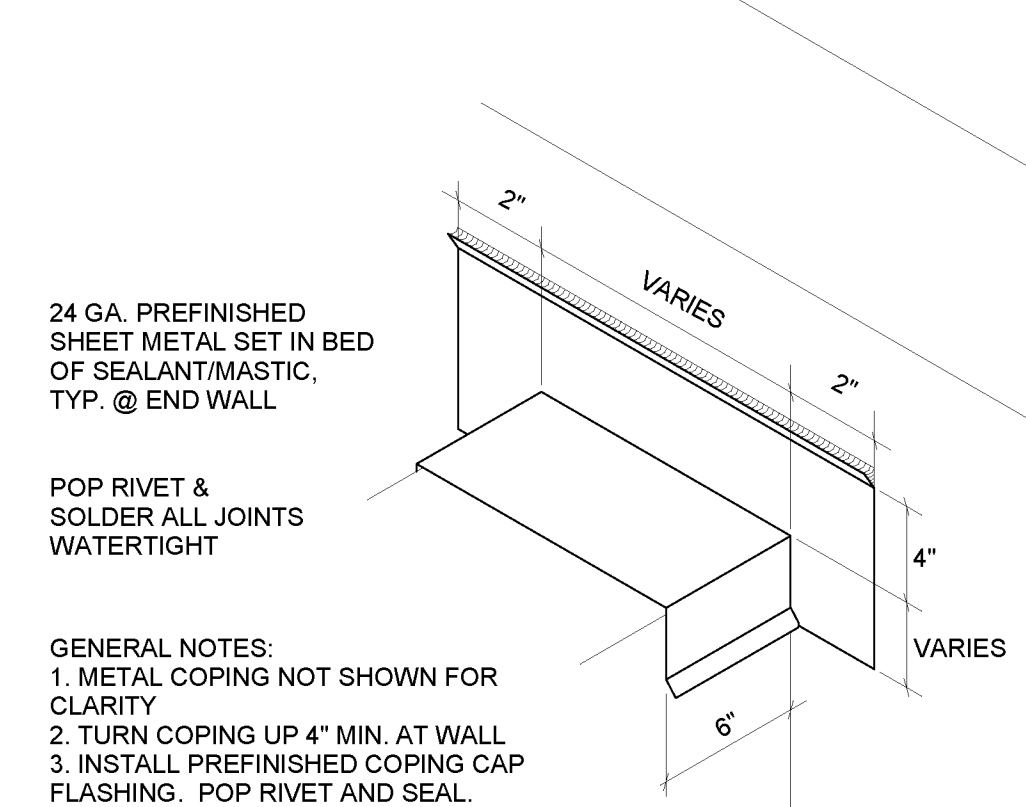
10 HOODED PAN
1 1/2" = 1'-0"



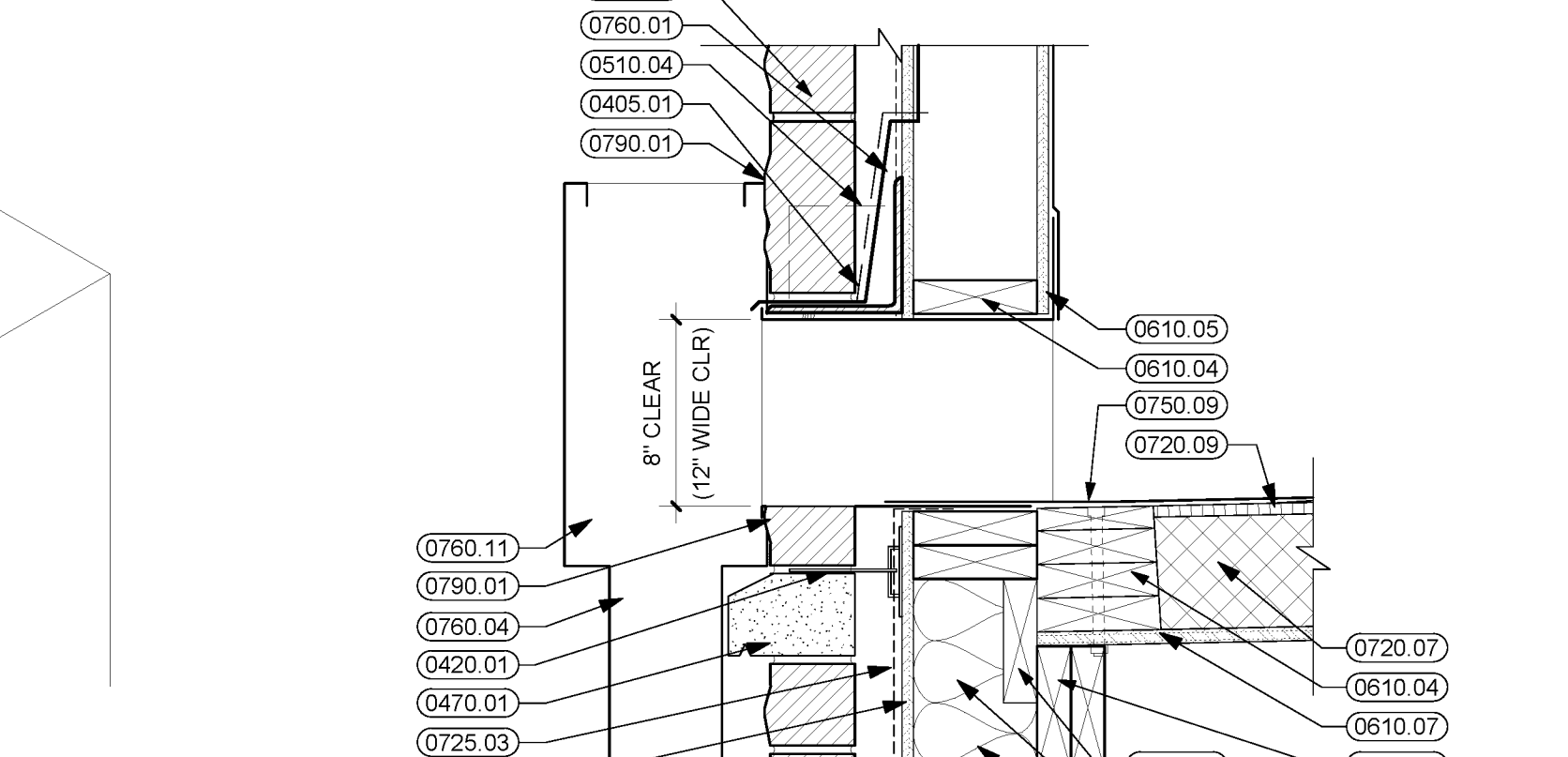
9 HOODED VENT
1 1/2" = 1'-0"



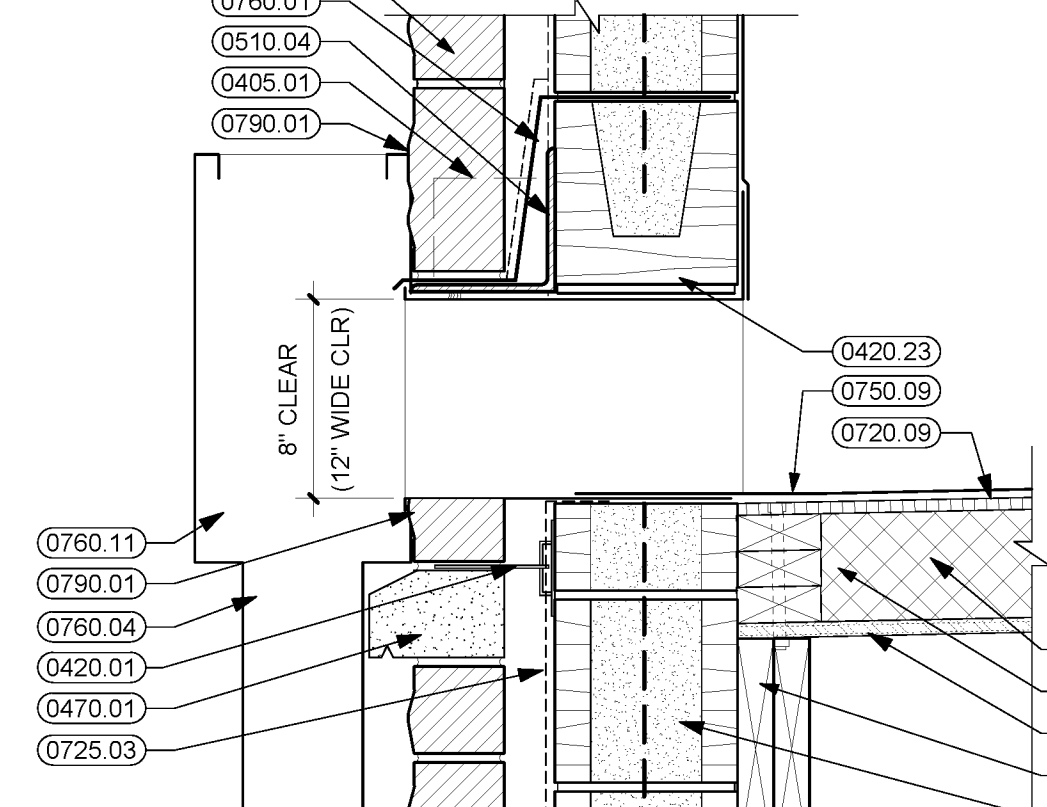
8 PLUMBING VENT
1 1/2" = 1'-0"



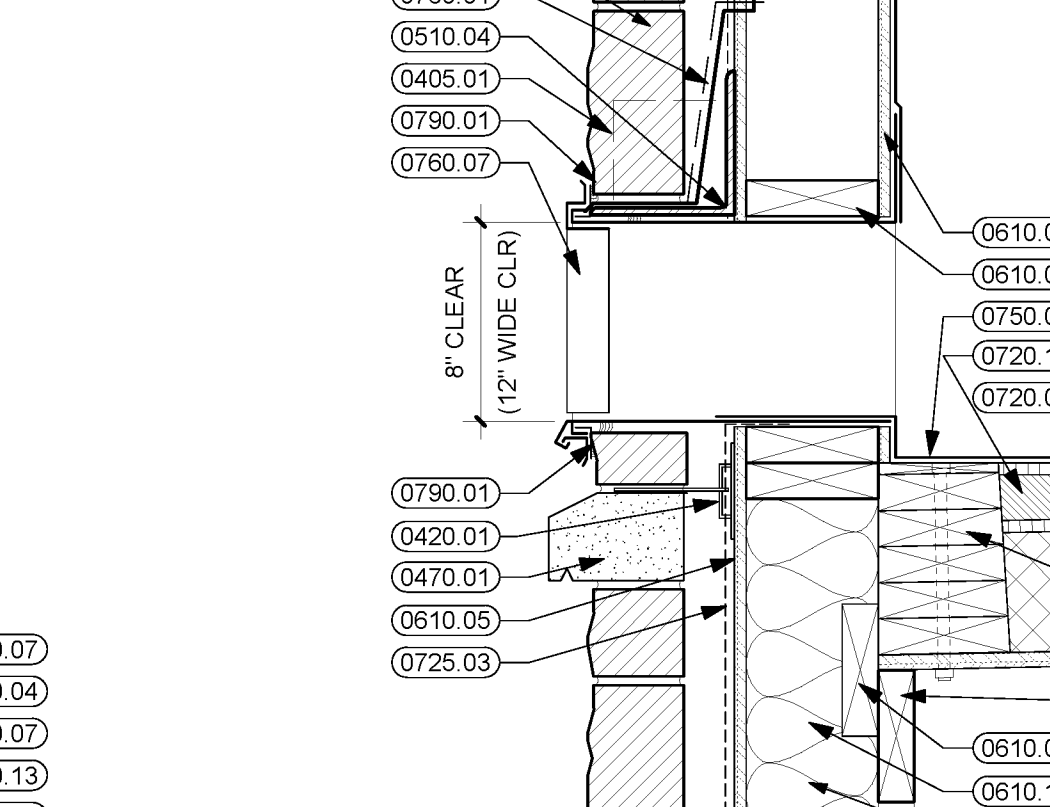
17 COPING DETAILS
1 1/2" = 1'-0"



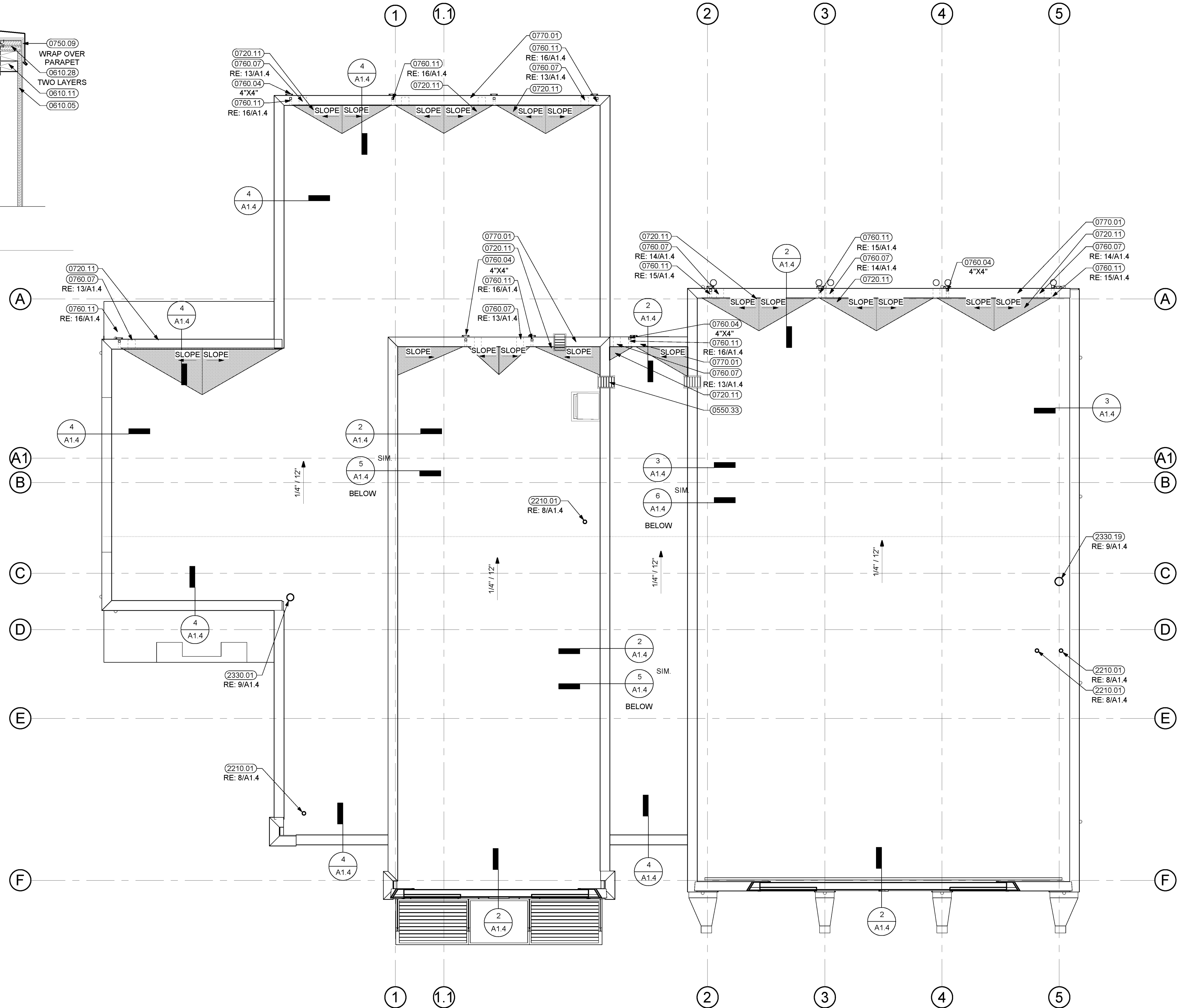
16 LEADER BOX
1 1/2" = 1'-0"



15 LEADER BOX
1 1/2" = 1'-0"

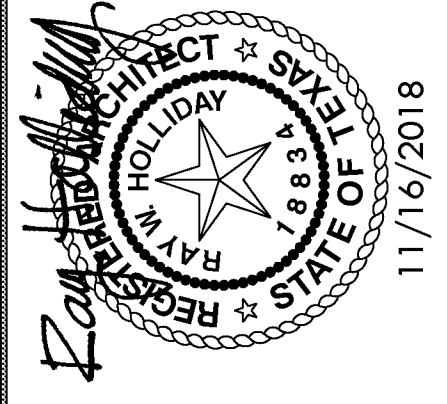


14 OVERFLOW SCUPPER
1 1/2" = 1'-0"

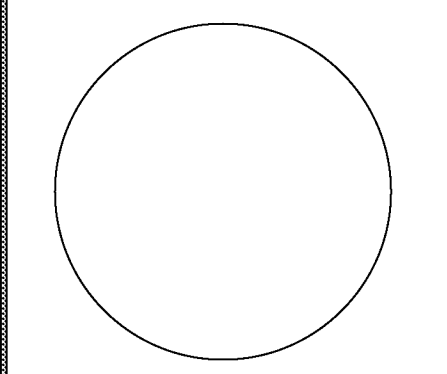


1 ROOF PLAN
1/8" = 1'-0"

- KEYNOTES**
- 0330.22 ANCHOR BOLT
 - 0405.01 FLASHING END DAM
 - 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C. E-W
 - 0420.02 HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
 - 0420.04 8" CONCRETE MASONRY UNITS
 - 0420.23 CONCRETE MASONRY BOND BEAM
 - 0440.07 STONE VENEER
 - 0470.01 CAST STONE
 - 0470.03 CAST STONE CORNICE WITH DRIP
 - 0510.04 STEEL ANGLE (RE: STRUCTURAL)
 - 0550.33 METAL LADDER
 - 0610.03 2X WOOD BLOCKING
 - 0610.04 2X PRESSURE TREATED WOOD BLOCKING
 - 0610.05 1/2" EXTERIOR GRADE PLYWOOD
 - 0610.07 3/4" EXTERIOR GRADE PLYWOOD
 - 0610.10 2 X 6 WOOD STUDS AT 16" O.C.
 - 0610.11 2 X 8 WOOD FRAMING
 - 0610.13 2 X 10 WOOD FRAMING
 - 0610.28 3/4" PLYWOOD
 - 0610.29 2X WOOD FURRING STRIPS
 - 0610.33 2X WOOD FRAMING (RE: STRUCTURAL)
 - 0710.01 BITUMINOUS DAMPROOFING
 - 0720.07 TWO (2) LAYERS OF 2" RIGID INSULATION
 - 0720.09 1/2" RIGID INSULATION COVERBOARD
 - 0720.11 TAPERED INSULATION (TAPER FROM 3/4" TO 2")
 - 0720.16 5 1/2" BATT INSULATION
 - 0725.02 SELF-ADHERING MODIFIED BITUMINOUS SHEET AIR BARRIER
 - 0725.03 PLASTIC FILM AIR BARRIER
 - 0750.01 ROOFING BASE FLASHING SYSTEM
 - 0750.09 PVC MEMBRANE ROOFING SYSTEM
 - 0750.12 HEAT-WELDED WALK PAD
 - 0750.13 LIQUID APPLIED SCRIM REINFORCED FLASHING SYSTEM
 - 0760.01 THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.) AND MORTAR NET
 - 0760.04 PREFINISHED METAL DOWNSPOUT
 - 0760.07 HOT-DIPPED GALVANIZED METAL OVERFLOW SCUPPER (8" X 12" W CLEAR) WITH PREFINISHED METAL FACING
 - 0760.11 PREFINISHED METAL LEADER BOX (14" W X 12" H X 6" D)
 - 0770.01 PREFINISHED METAL COPING SYSTEM
 - 0770.04 PREFINISHED METAL REGLET WITH SEALANT AND COUNTERFLASHING
 - 0770.08 EQUIPMENT CURB WITH GALVANIZED COUNTERFLASHING
 - 0770.12 24 GAUGE PITCH PAN AND HOOD. FILL WITH 1" POLYURETHANE SEALANT OVER ROOFING GRANULES
 - 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
 - 2210.01 PLUMBING VENT
 - 2310.01 GAS PIPING (PAINT WHERE EXPOSED)
 - 2320.03 REFRIGERANT PIPING
 - 2330.01 HVAC DUCTWORK
 - 2330.19 EXHAUST VENT CAP WITH INTEGRAL BACKDRAFT DAMPER
 - 2620.01 CONDUIT



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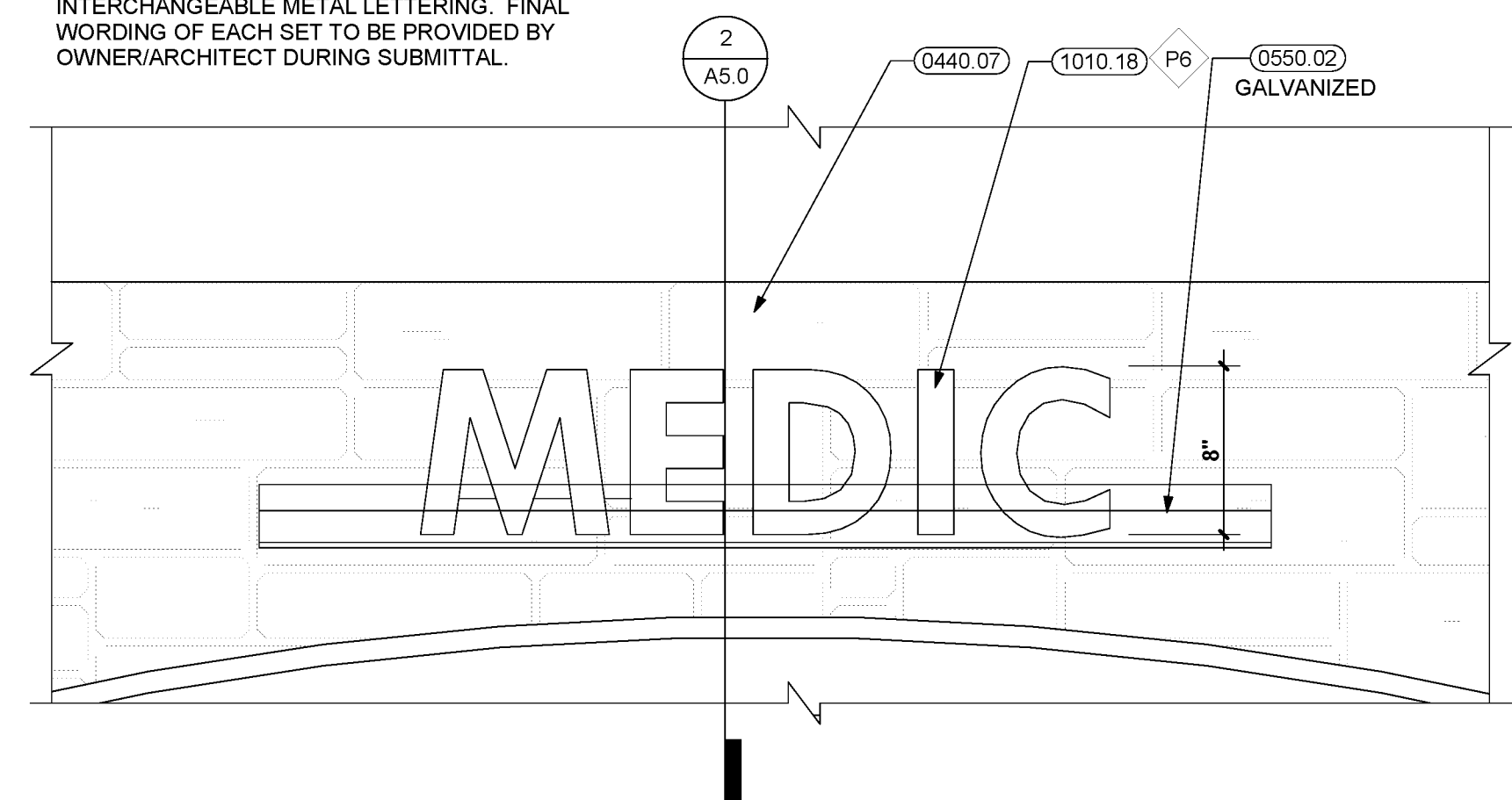
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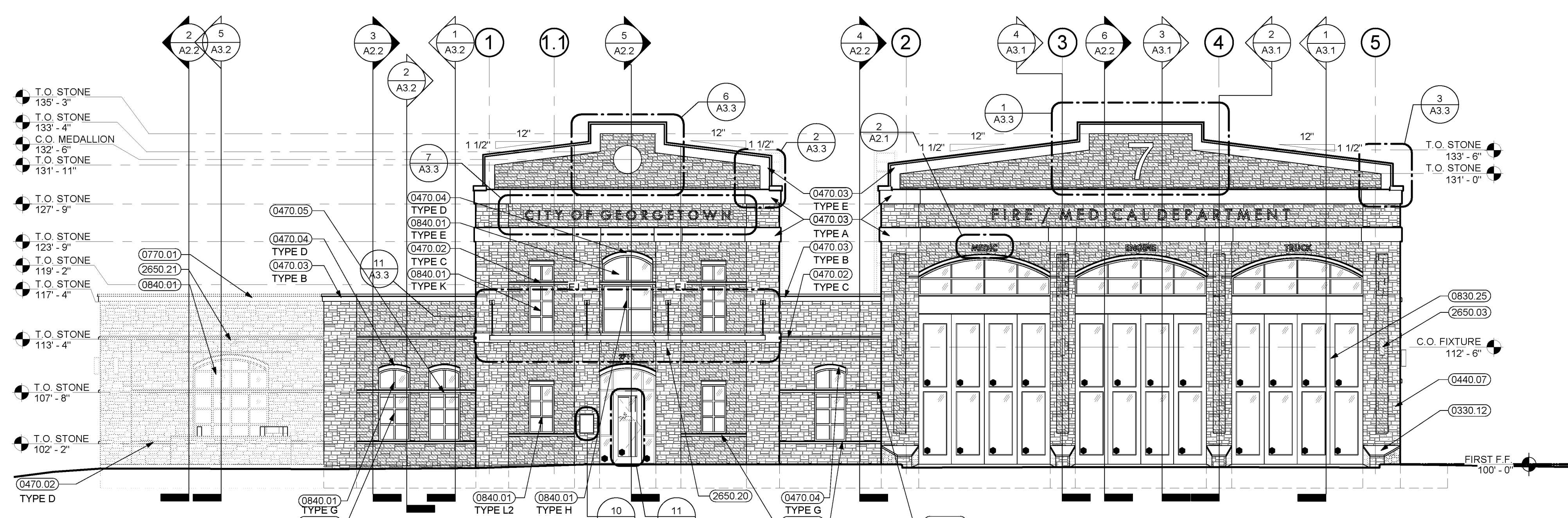
NO.	REVISION	DATE

A1.4
ROOF PLAN AND DETAILS

NOTE: PROVIDE 6 TOTAL SETS OF INTERCHANGEABLE METAL LETTERING. FINAL WORDING OF EACH SET TO BE PROVIDED BY OWNER/ARCHITECT DURING SUBMITTAL.



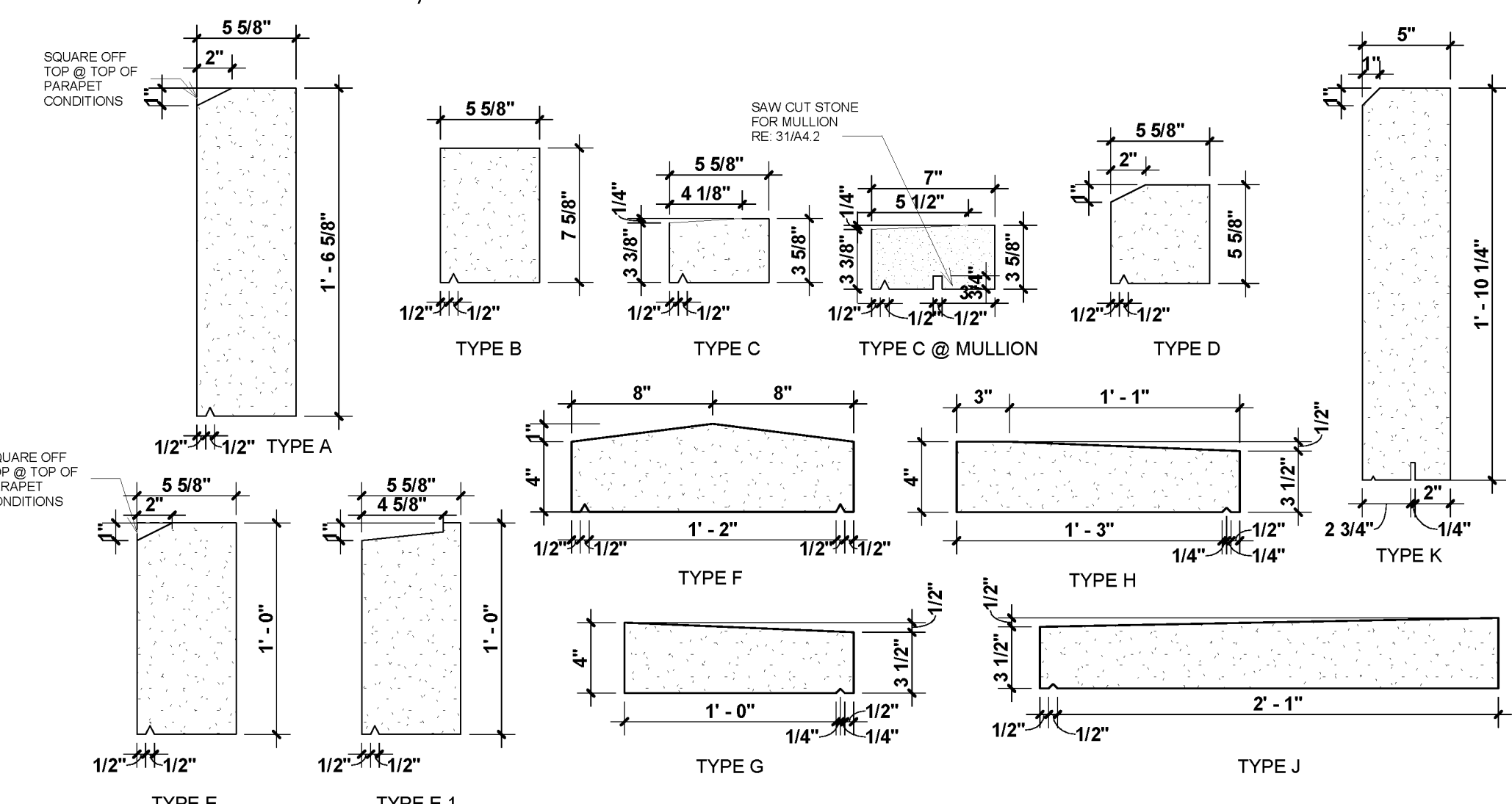
2 PARTIAL ELEVATION
1 1/2" = 1'-0"



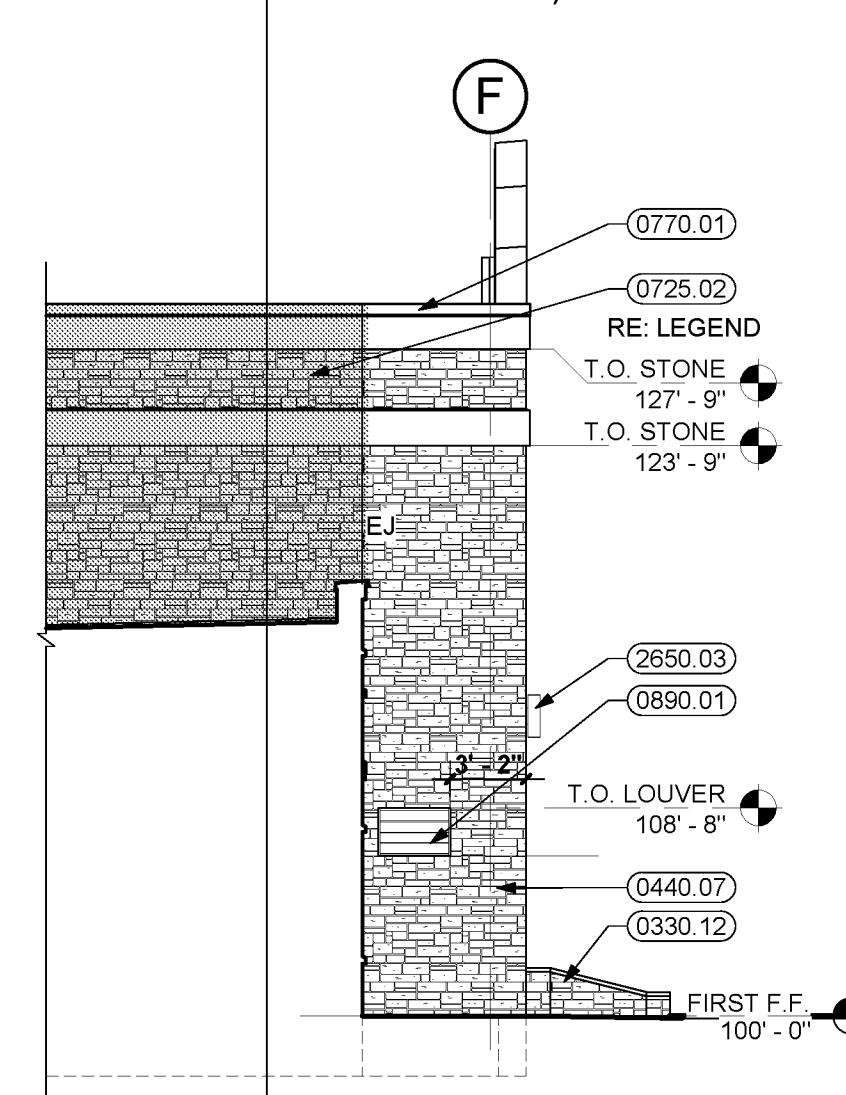
1 EXTERIOR ELEVATION (SOUTH)
1/8" = 1'-0"

KEYNOTES

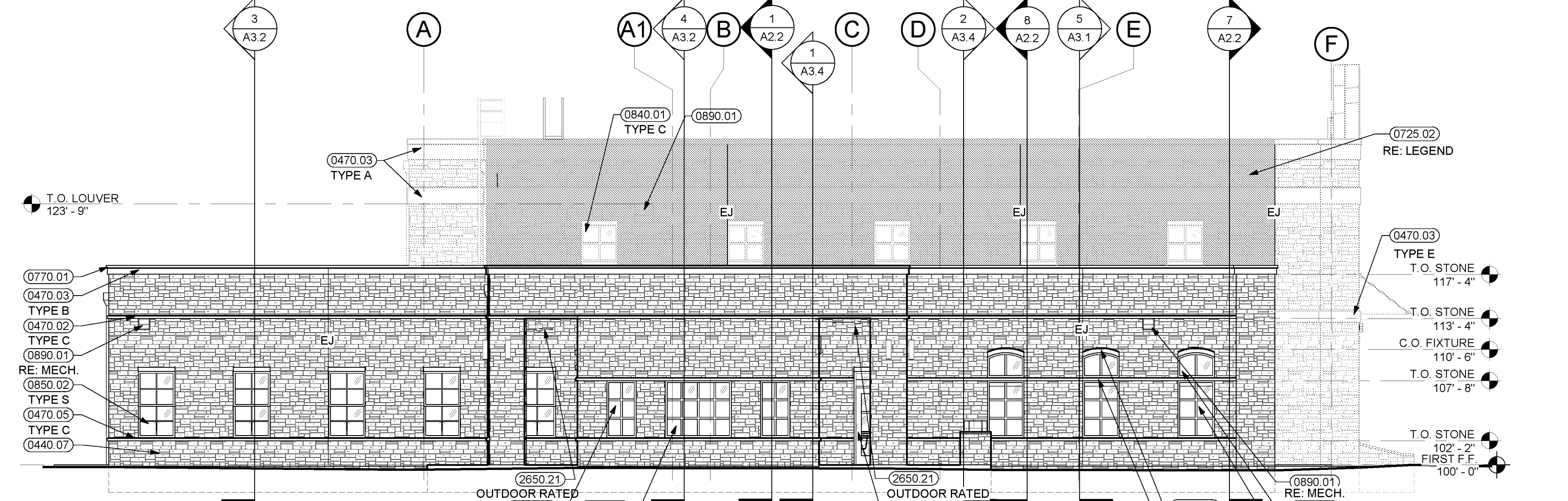
- 0330.12 CONCRETE BOLLARD
- 0405.03 MASONRY EXPANSION JOINT
- 0440.07 STONE VENEER
- 0470.02 CAST STONE STRING COURSE
- 0470.03 CAST STONE CORNICE WITH DRIP
- 0470.04 CAST STONE LINTEL WITH DRIP
- 0470.05 CAST STONE SILL WITH DRIP
- 0550.02 3" X 3" X 1/4" STEEL ANGLE
- 0570.13 DECORATIVE STEEL BOLLARD
- 0725.02 SELF-ADHERING MODIFIED BITUMINOUS SHEET AIR BARRIER
- 0760.04 PREFINISHED METAL DOWNSPOUT
- 0760.05 PREFINISHED METAL DOWNSPOUT WITH FABRICATED TRANSITION TO DOWNSPOUT BOOT
- 0760.07 HOT-DIPPED GALVANIZED METAL OVERFLOW SCUPPER (8" X 12" W CLEAR) WITH PREFINISHED METAL FACING
- 0770.01 PREFINISHED METAL COPING SYSTEM
- 0810.04 HOLLOW METAL DOOR AND FRAME
- 0810.06 HOLLOW METAL DOOR
- 0830.24 UPWARD-ACTING SECTIONAL DOOR
- 0830.25 ELECTRIC OPERATED FOLDING DOOR
- 0840.01 ALUMINUM STOREFRONT
- 0840.02 ALUMINUM STOREFRONT DOOR
- 0850.02 OPERABLE ALUMINUM WINDOW
- 0890.01 PREFINISHED FIXED ALUMINUM LOUVER (WITH INSECT SCREEN)
- 1010.18 METAL LETTERING
- 1070.11 PRE-MANUFACTURED EXTERIOR ALUMINUM CANOPY SYSTEM
- 2330.19 EXHAUST VENT CAP WITH INTEGRAL BACKDRAFT DAMPER
- 2650.03 SURFACE-MOUNTED LIGHT FIXTURE
- 2650.20 EXTERIOR LIGHT FIXTURE
- 2650.21 CEILING FAN



5 CAST STONE TYPES
1 1/2" = 1'-0"



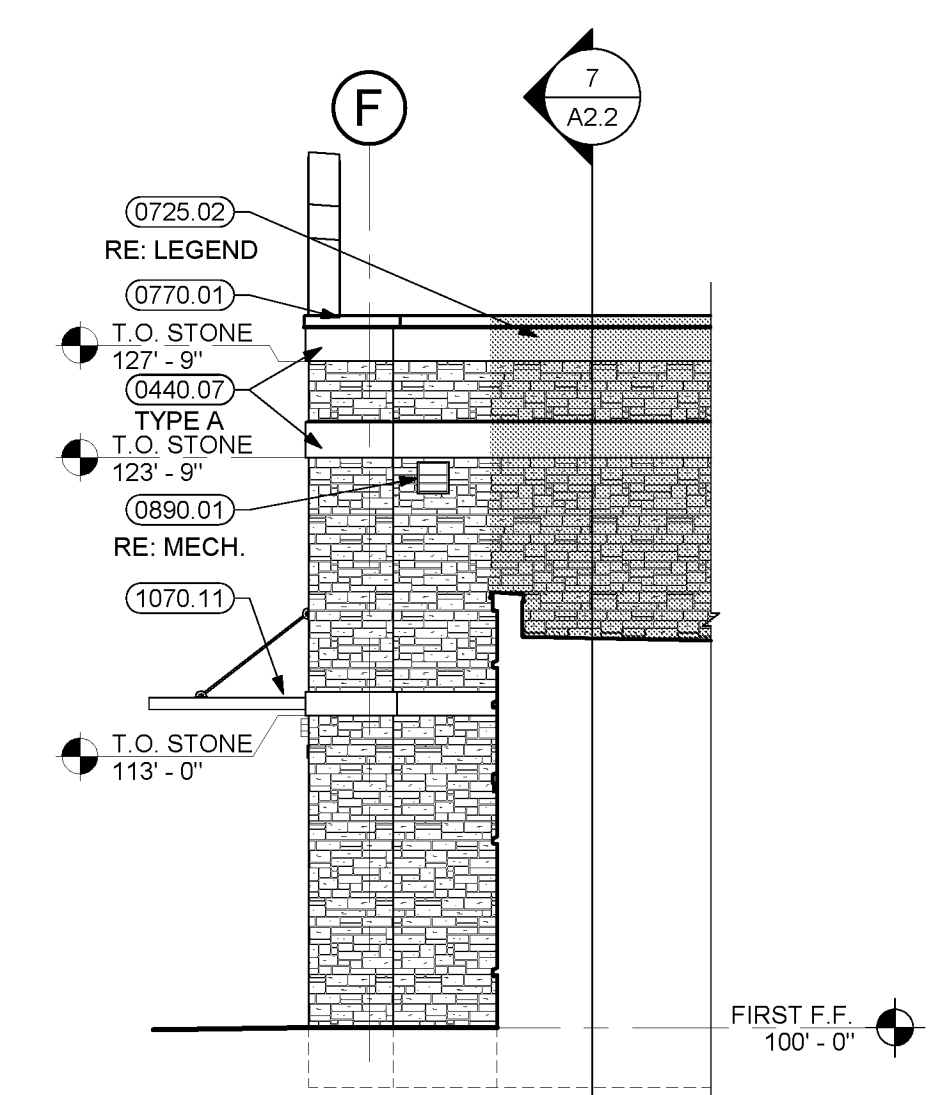
4 PARTIAL ELEVATION
1/8" = 1'-0"



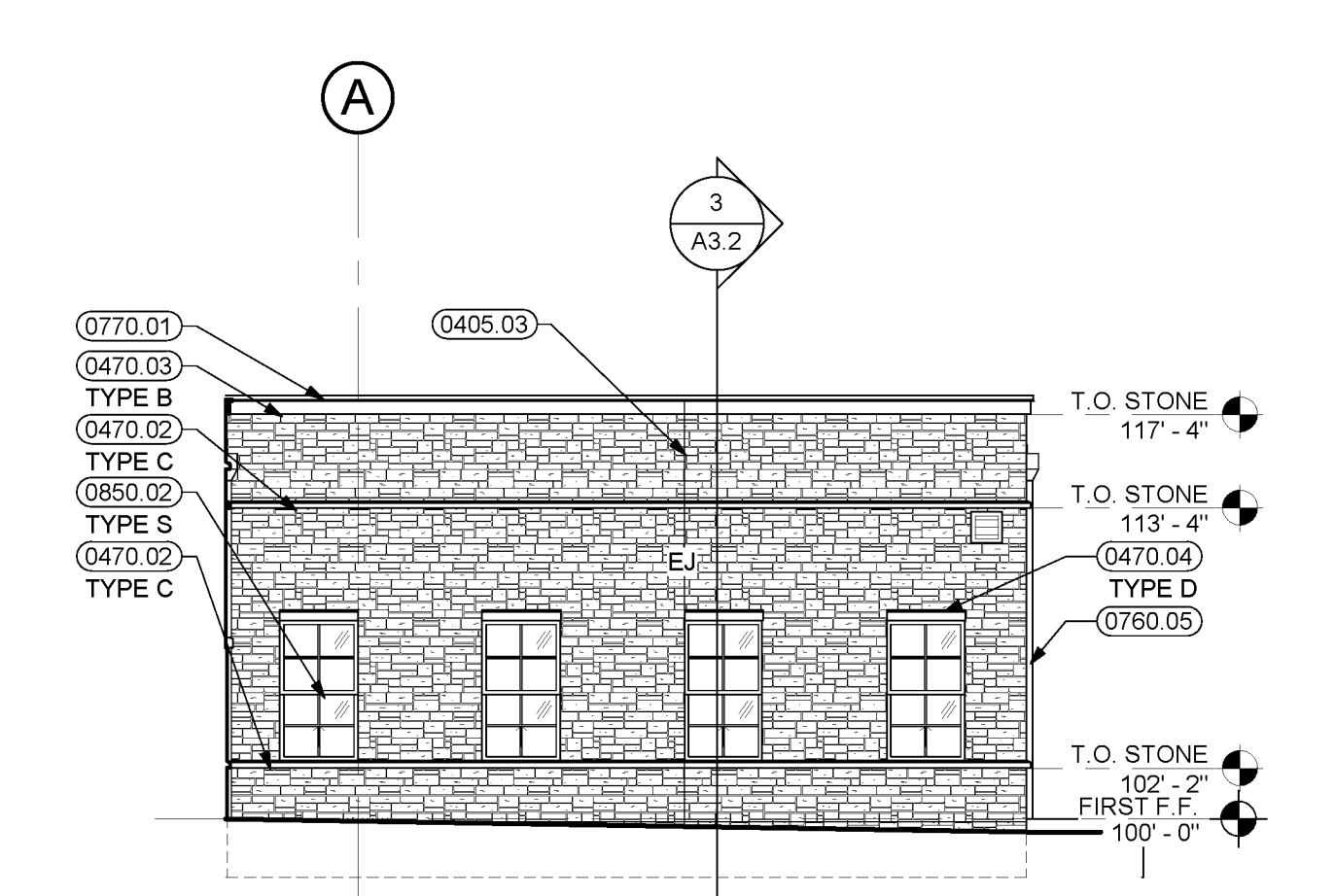
3 EXTERIOR ELEVATION (WEST)
1/8" = 1'-0"

LEGEND

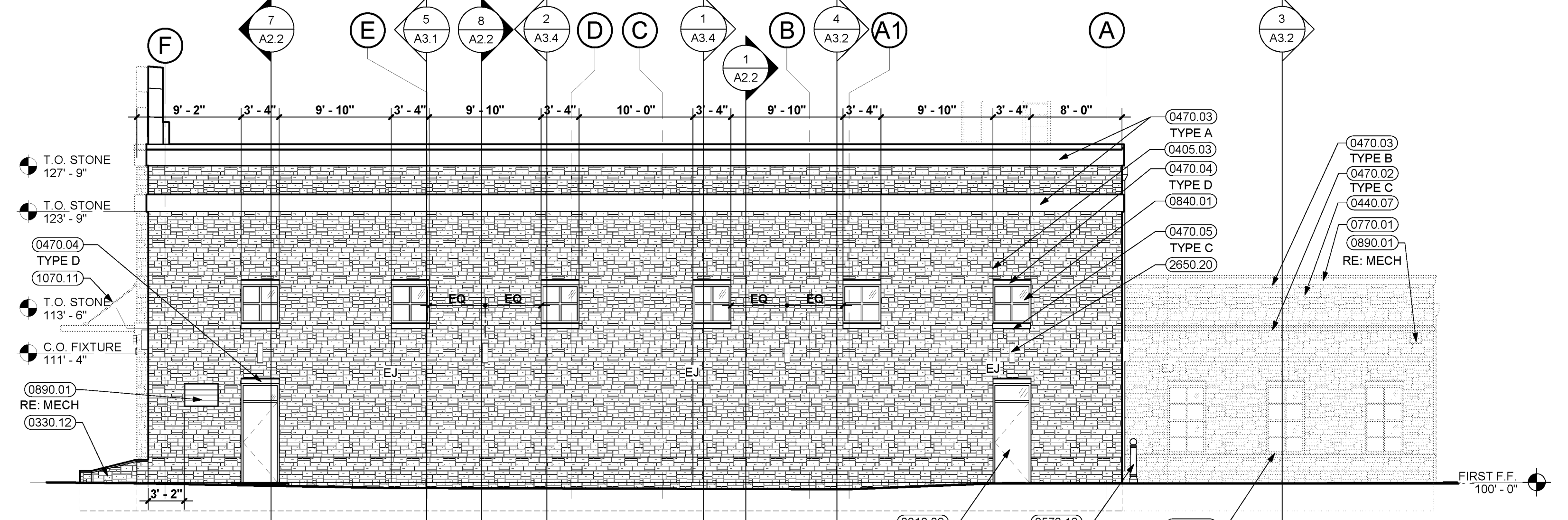
SYMBOL	DESCRIPTION
	4" BUILDING STONE VENEER "FIREHOUSE BLEND" BY LEDBETTER BRICK & STONE CO. SAW CUT, RANDOM ASHLAR PATTERN
	SETBACK (2") 4" BUILDING STONE VENEER "FIREHOUSE BLEND" BY LEDBETTER BRICK & STONE CO. SAW CUT, RANDOM ASHLAR PATTERN RE: A1.3 DIMENSION PLAN
	SELF-ADHERING MODIFIED BITUMINOUS SHEET AIR BARRIER APPLIED TO SHEATHING AT ALL WALL-ABOVE-ROOF CONDITIONS. SPECIAL INSPECTION OF THE INSTALLED MODIFIED BITUMINOUS SHEET AIR BARRIER BY ARCHITECT IS REQUIRED PRIOR TO COVER-UP. RE: SPECIFICATION SECTION 07 27 13.
	EXTERIOR METAL PAINT FINISH KELLY MOORE "HAUTE COUTURE" KMA3
	SHOP PRIME ALL EXPOSED STEEL
	REFERENCE SPECIFICATION SECTION 099000 PAINTING FOR PAINT SCHEDULES



8 PARTIAL ELEVATION
1/8" = 1'-0"



7 PARTIAL ELEVATION
1/8" = 1'-0"



6 EXTERIOR ELEVATION (EAST)
1/8" = 1'-0"

ARCHITECTURAL PLAN NOTES:

- ALL SIGNAGE REQUIRES A SEPARATE APPLICATION AND APPROVAL FROM THE BUILDING INSPECTIONS DEPARTMENT. NO SIGNAGE IS APPROVED WITH THE SITE DEVELOPMENT PLAN.
- COLOR SELECTION IS NOT APPROVED WITH THE SITE DEVELOPMENT PLAN AND MAY BE COUNTED TOWARD THE SIGNAGE CALCULATION IF IT IS FOUND TO REFLECT COLOR THAT IS CONSIDERED SIGNAGE ACCORDING TO THE DEFINITION OF SIGNAGE IN THE UDC.
- THIS SITE DEVELOPMENT PLAN SHALL MEET ALL DESIGN STANDARDS FOR ARTICULATION, BUILDING DESIGN, BUILDING MATERIALS AND ELEMENTS AND ARCHITECTURAL FEATURES OF SECTION 7.04 OF THE UDC.
- ALL ROOF, WALL AND GROUND MOUNTED MECHANICAL AND ELECTRICAL EQUIPMENT MUST BE SCREENED IN ACCORDANCE WITH UDC CHAPTER 6.

HORIZONTAL ARTICULATION FOR FOOTPRINT:

AVERAGE BUILDING HEIGHT = 26' - 0"

MAX. DISTANCE WITHOUT PERPENDICULAR OFFSET:
26' X 3 = 78' - 0"

MIN. HEIGHT OF PERPENDICULAR OFFSET:
26' X 0.25 = 6' - 6"

MIN. SPAN OF PERPENDICULAR OFFSET:
26' X 0.75 = 19' - 6"

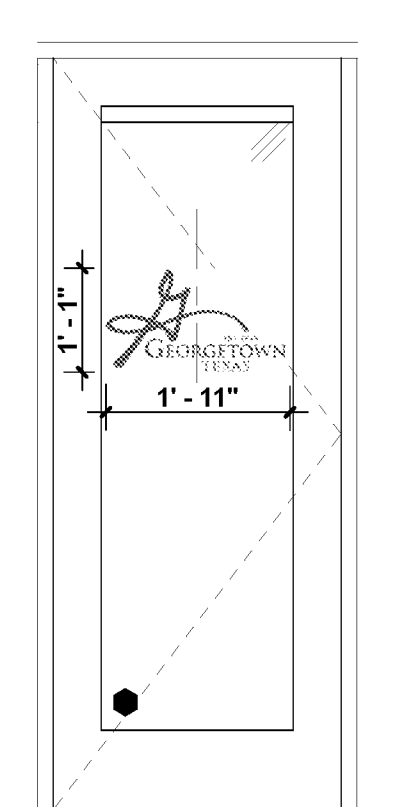
VERTICAL ARTICULATION FOR ELEVATIONS:

MAX. DISTANCE WITHOUT VERTICAL ELEVATION CHANGE:
26' X 3 = 78' - 0"

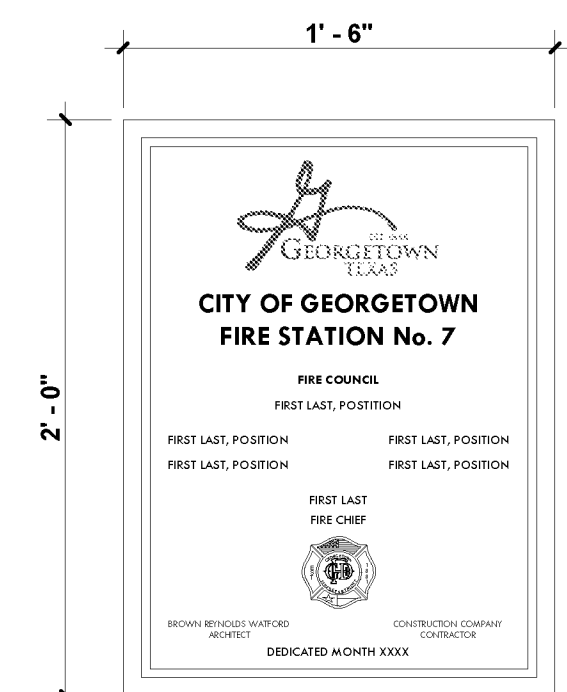
MIN. HEIGHT OF VERTICAL ELEVATION CHANGE:
26' X 0.25 = 6' - 6"

MIN. LATERAL ELEVATION CHANGE:
26' X 0.75 = 19' - 6"

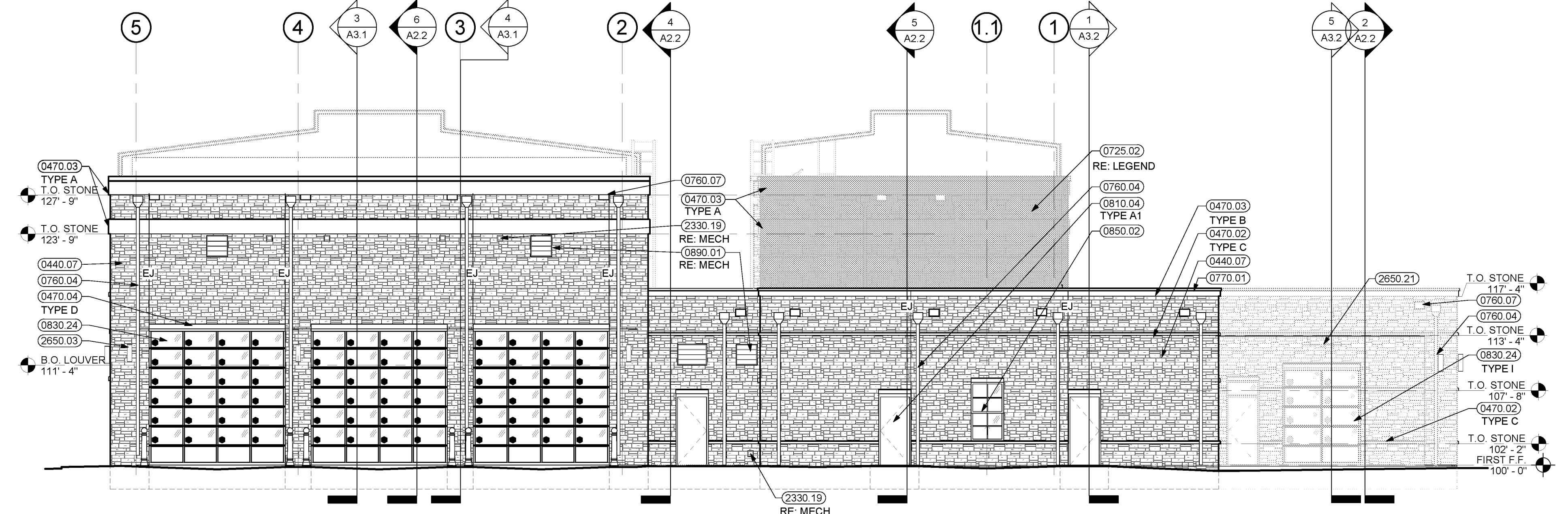
REFER TO ALTERNATIVE BUILDING DESIGN SUBMITTAL FOR EAST WALL OF FIRE STATION EXCEEDING MAX DISTANCE WITHOUT PERPENDICULAR OFFSET VERTICAL ELEVATION CHANGE.



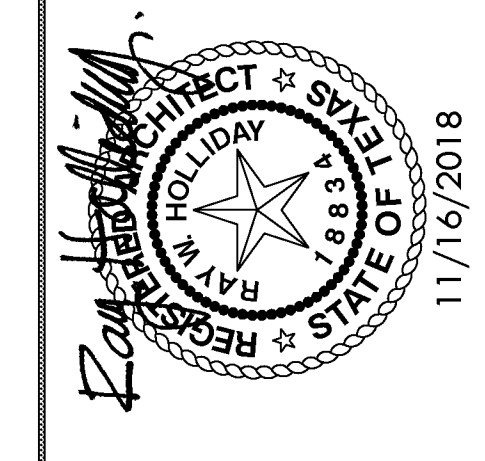
11 SIGNAGE DETAIL
1/2" = 1'-0"



10 BUILDING PLAQUE
1 1/2" = 1'-0"



9 EXTERIOR ELEVATION (NORTH)
1/8" = 1'-0"



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A2.1

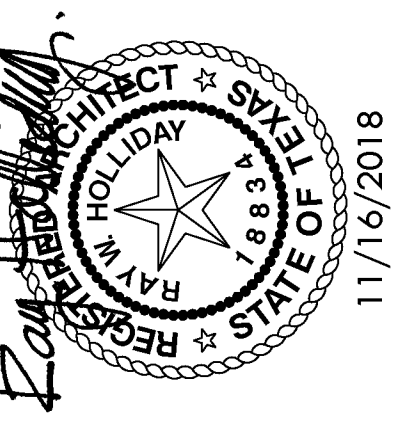
EXTERIOR ELEVATIONS

KEYNOTES

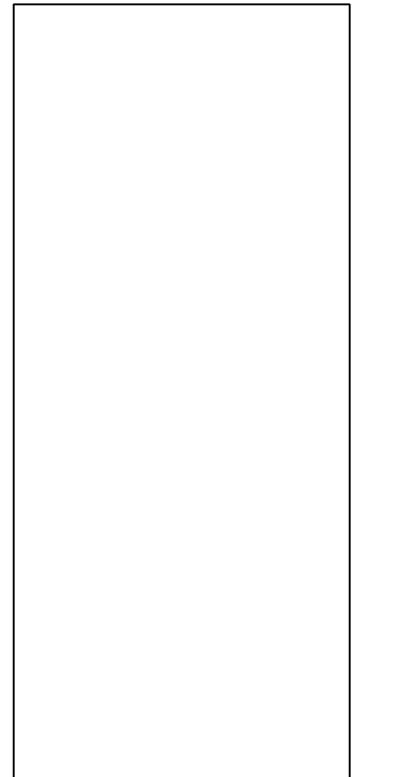
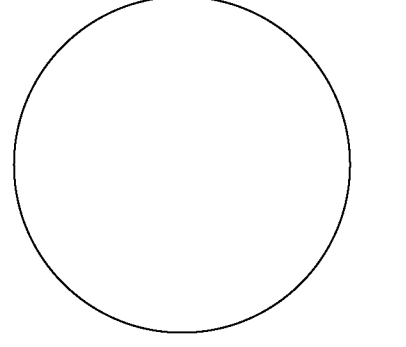
- 0330.02 CONCRETE SLAB (RE. STRUCTURAL)
- 0405.04 MASONRY CONTROL JOINT
- 0420.14 8" CONCRETE MASONRY UNITS
- 0440.07 STONE VENEER
- 0470.02 CAST STONE STRING COURSE
- 0470.03 CAST STONE CORNICE WITH DRIP
- 0610.32 PREFABRICATED WOOD TRUSS (RE. STRUCTURAL)
- 0710.02 SELF ADHERING SHEET WATERPROOFING MEMBRANE
- 0740.19 FIBER REINFORCED CEMENTITIOUS VENTED SOFFIT PANEL
- 0750.01 ROOFING BASE FLASHING SYSTEM
- 0750.09 PVC MEMBRANE ROOFING SYSTEM
- 0760.07 HOT-DIPPED GALVANIZED METAL OVERFLOW SCUPPER (6" X 12" W CLEAR) WITH PREFINISHED METAL FACING
- 0770.01 PREFINISHED METAL COPING SYSTEM
- 0920.17 SUSPENDED GYPSUM BOARD PANELS ON METAL STUD FRAMING
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0950.01 SUSPENDED ACOUSTICAL LAY-IN TILE CEILING (2' X 2')
- 0950.06 SUSPENDED LINEAR WOOD CEILING SYSTEM
- 2650.03 SURFACE-MOUNTED LIGHT FIXTURE
- 2650.04 PENDANT LIGHT FIXTURE
- 2650.21 CEILING FAN

LEGEND

SYMBOL	DESCRIPTION
	SELF-ADHERING SHEET DAMP PROOFING AT ALL WALL-ABOVE-ROOF CONDITIONS



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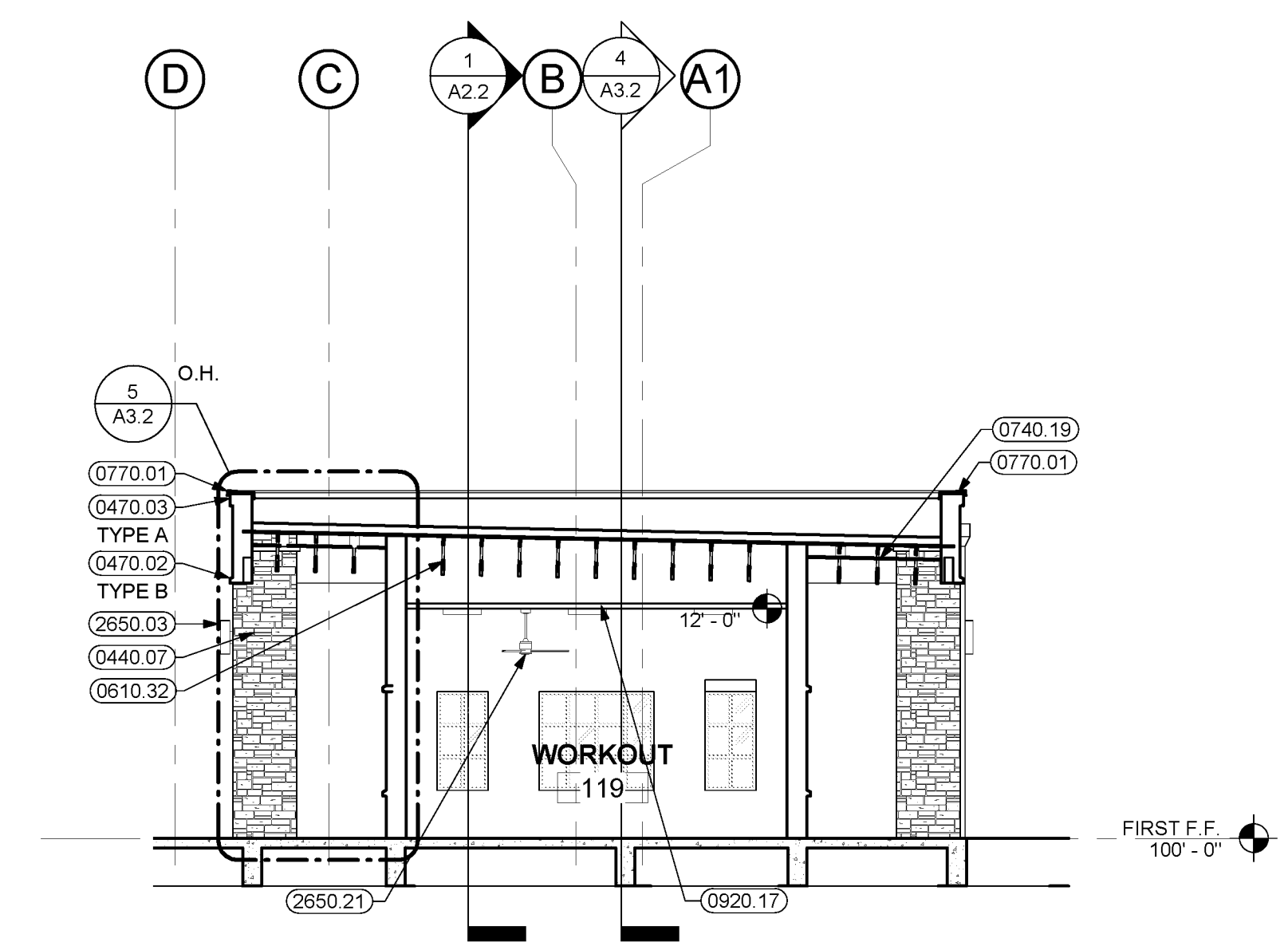


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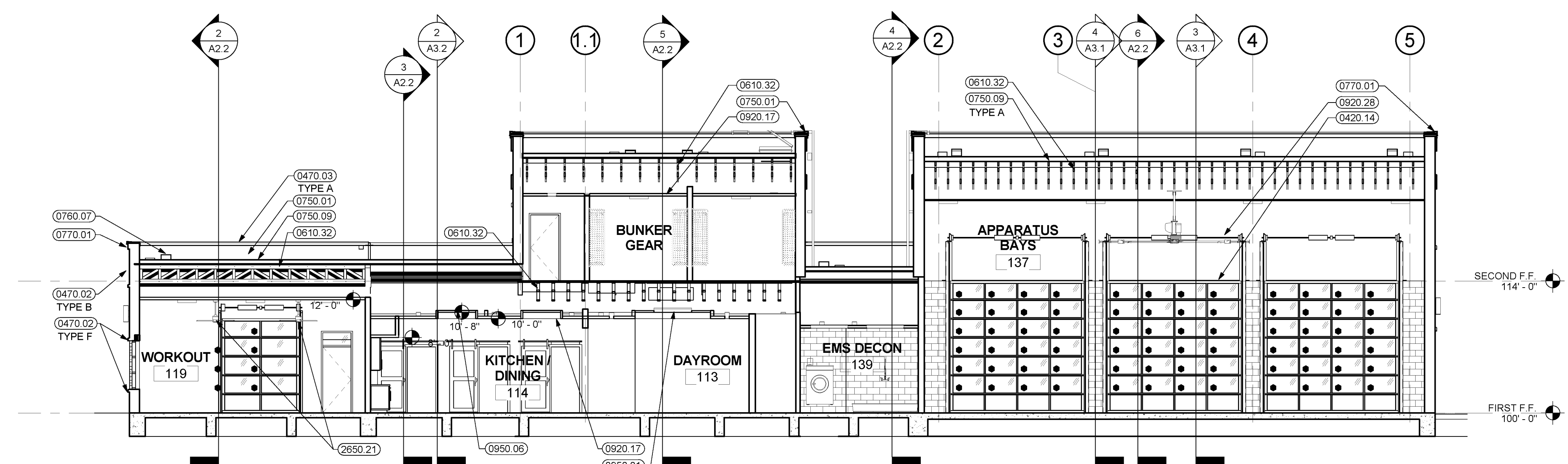
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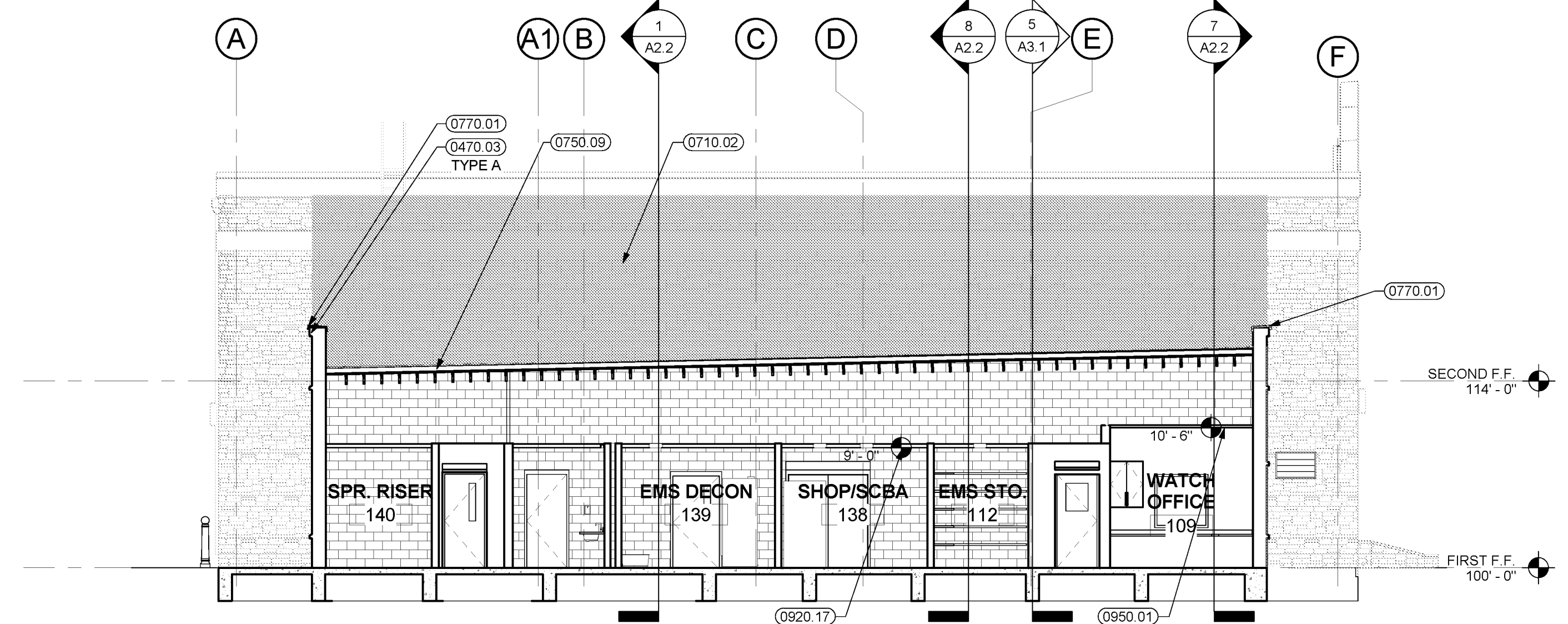
A2.2
 BUILDING SECTIONS



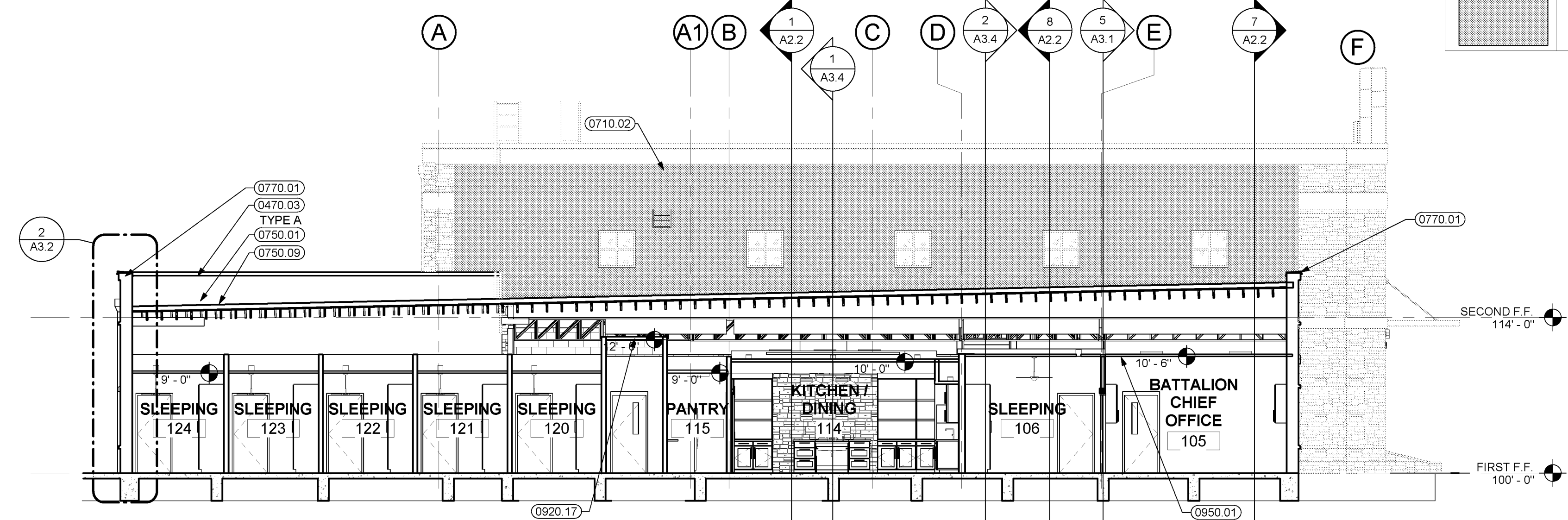
2 BUILDING SECTION
 1/8" = 1'-0"



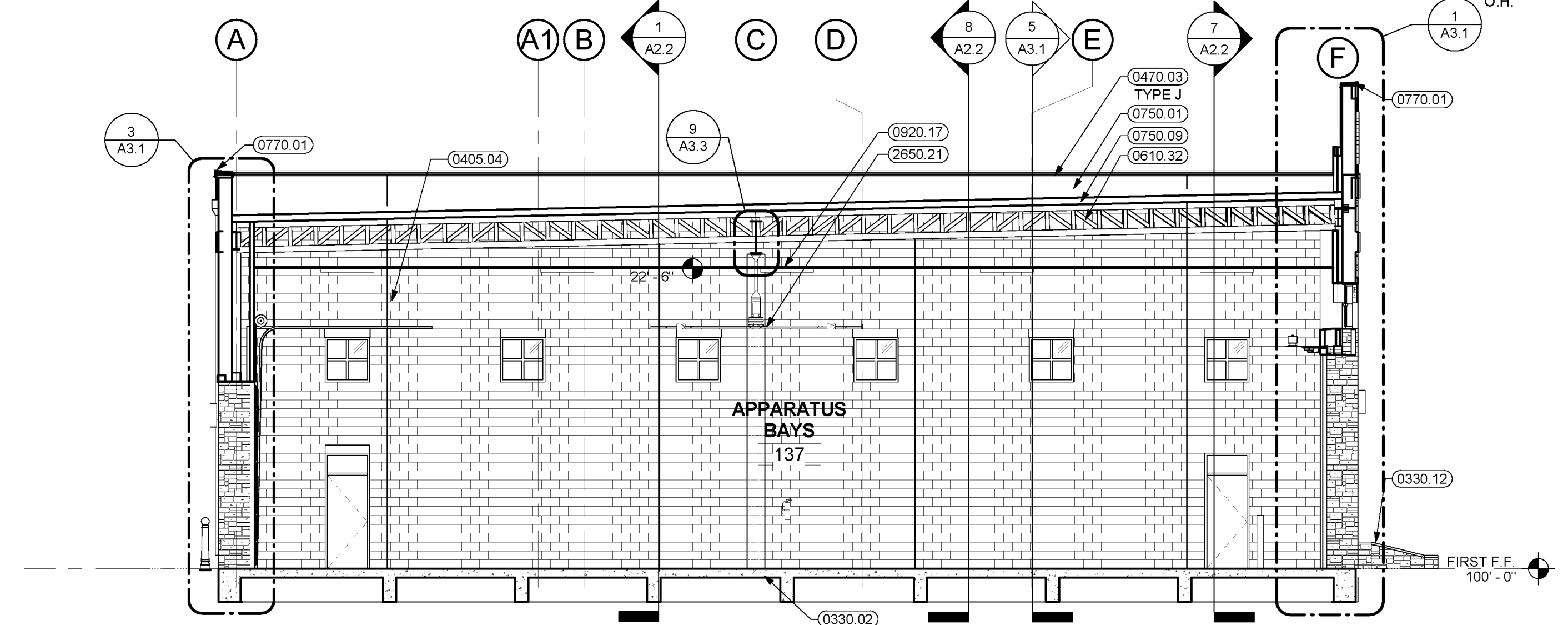
1 BUILDING SECTION
 1/8" = 1'-0"



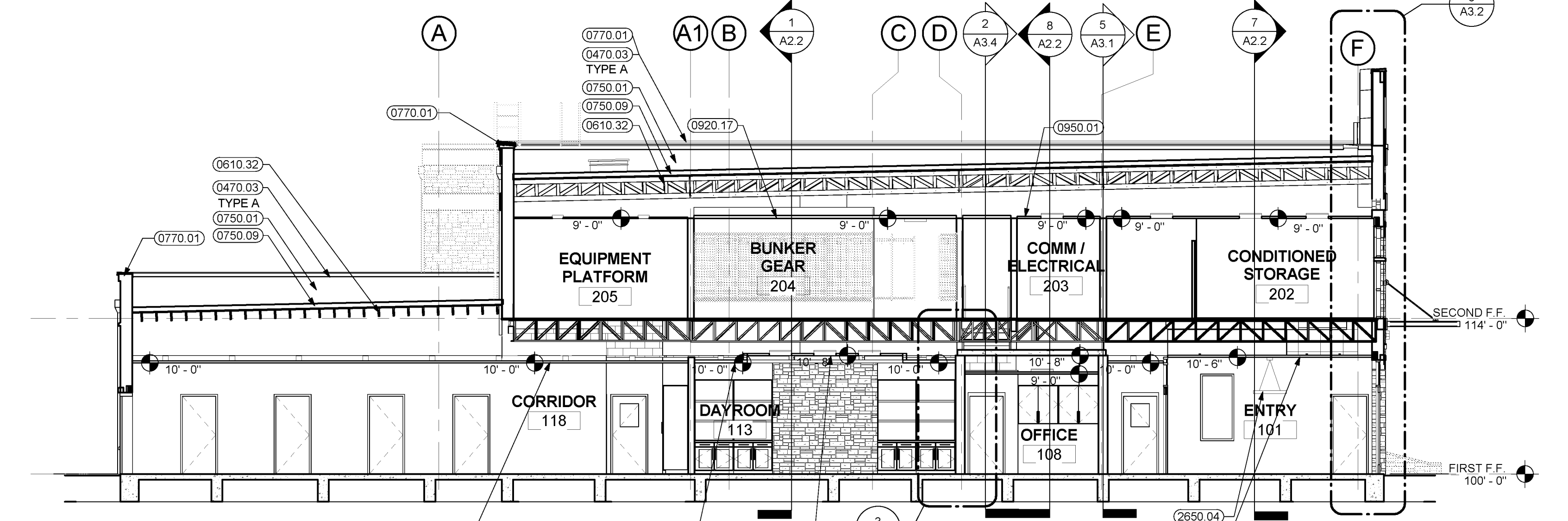
4 BUILDING SECTION
 1/8" = 1'-0"



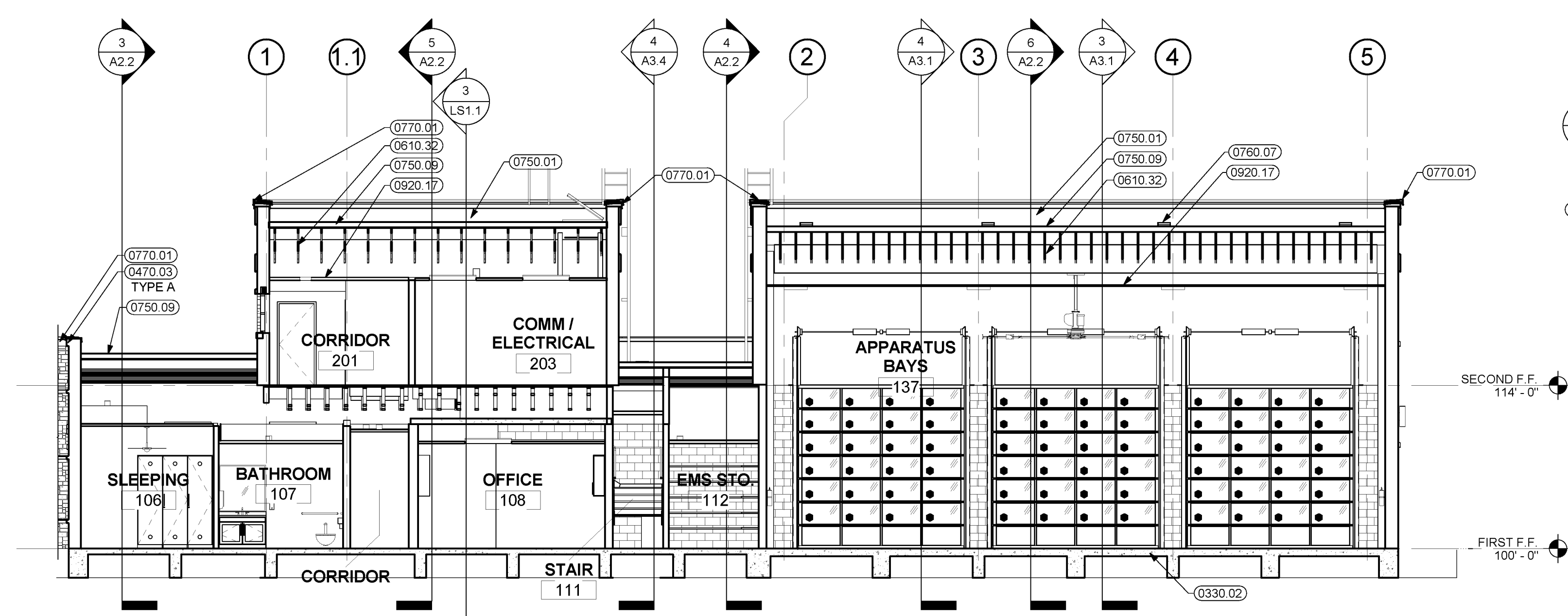
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 1/8" = 1'-0"



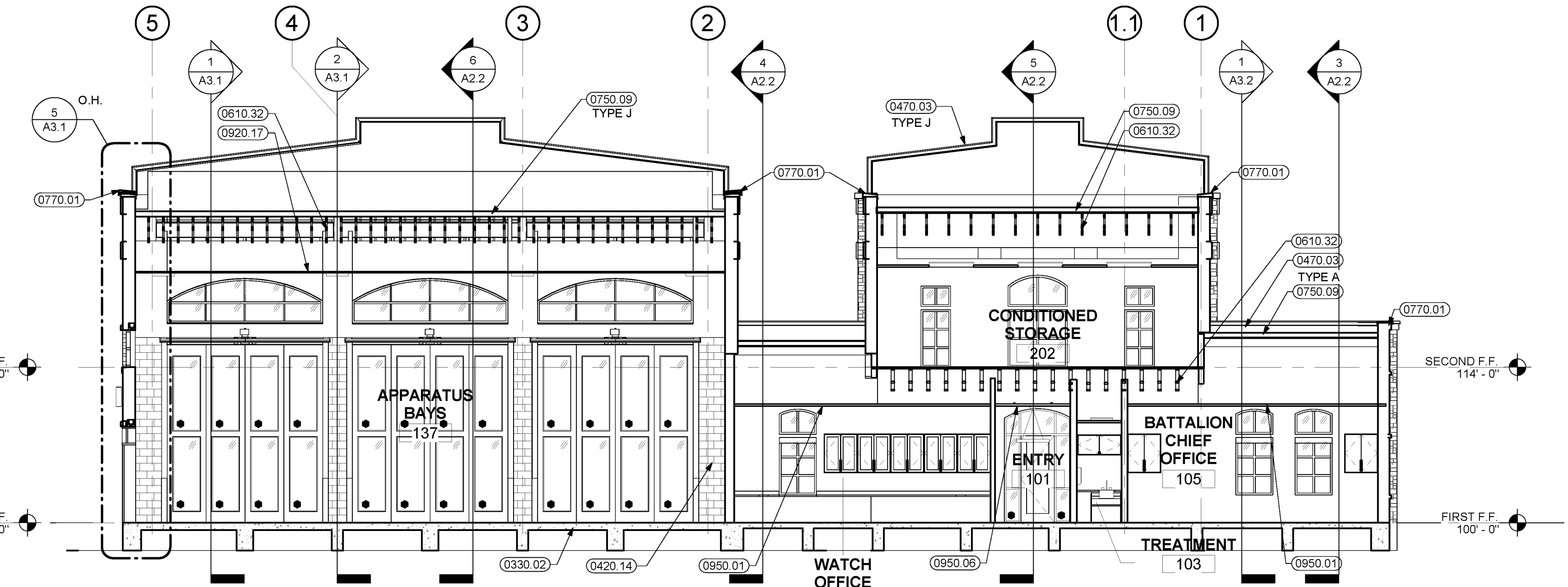
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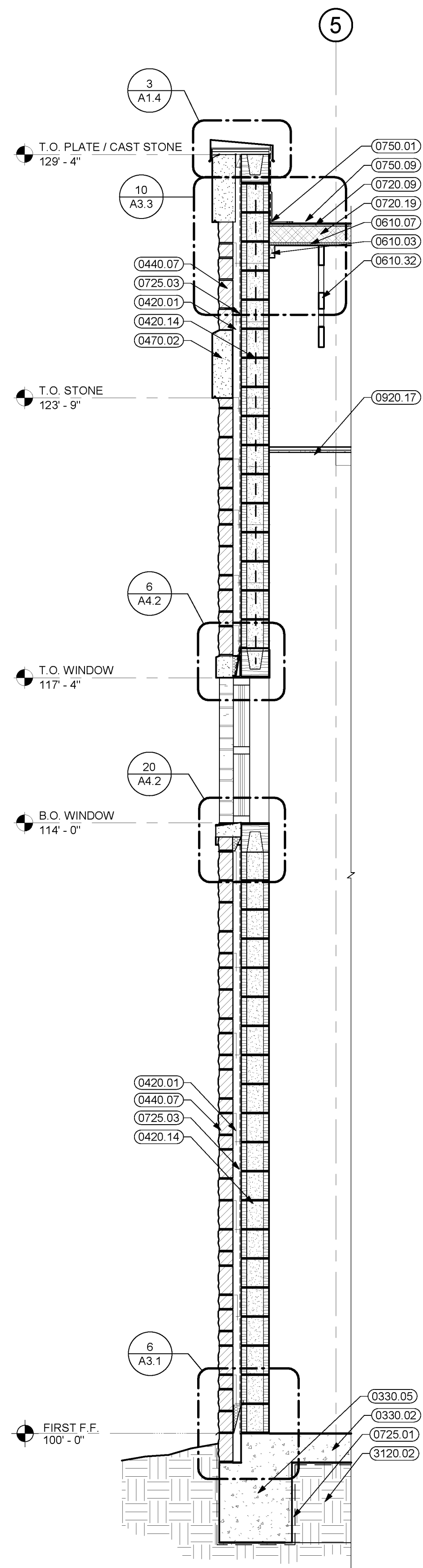
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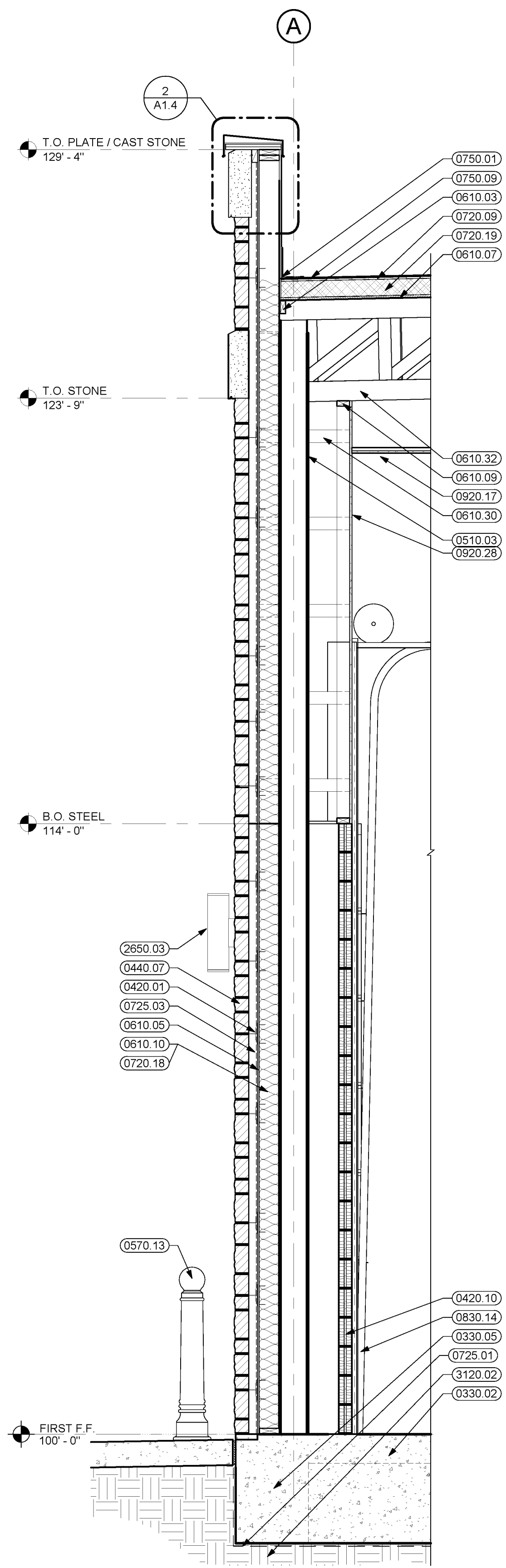
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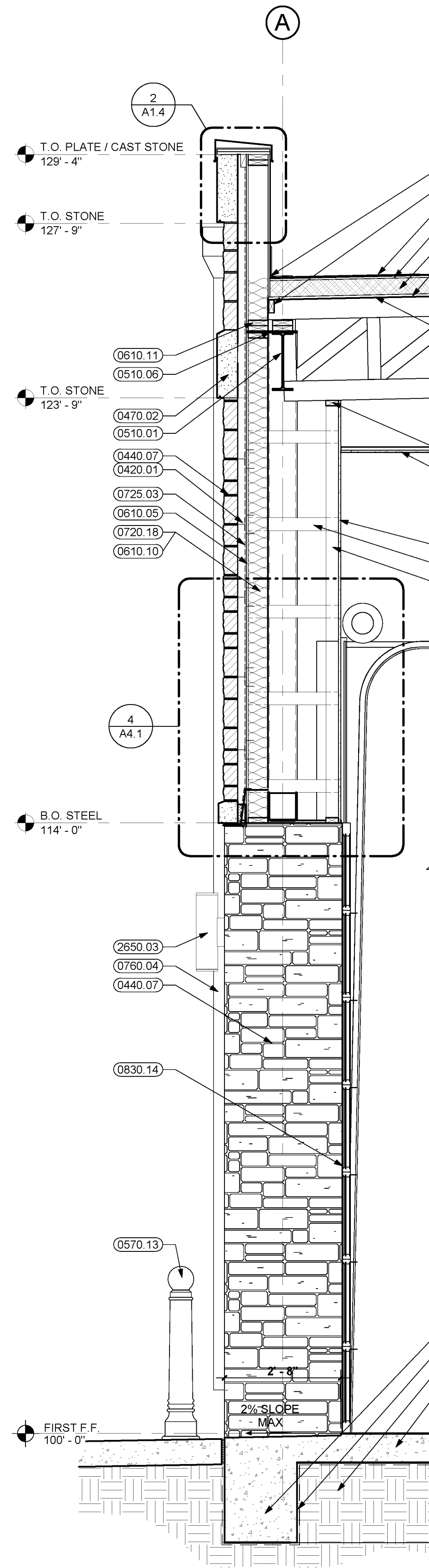
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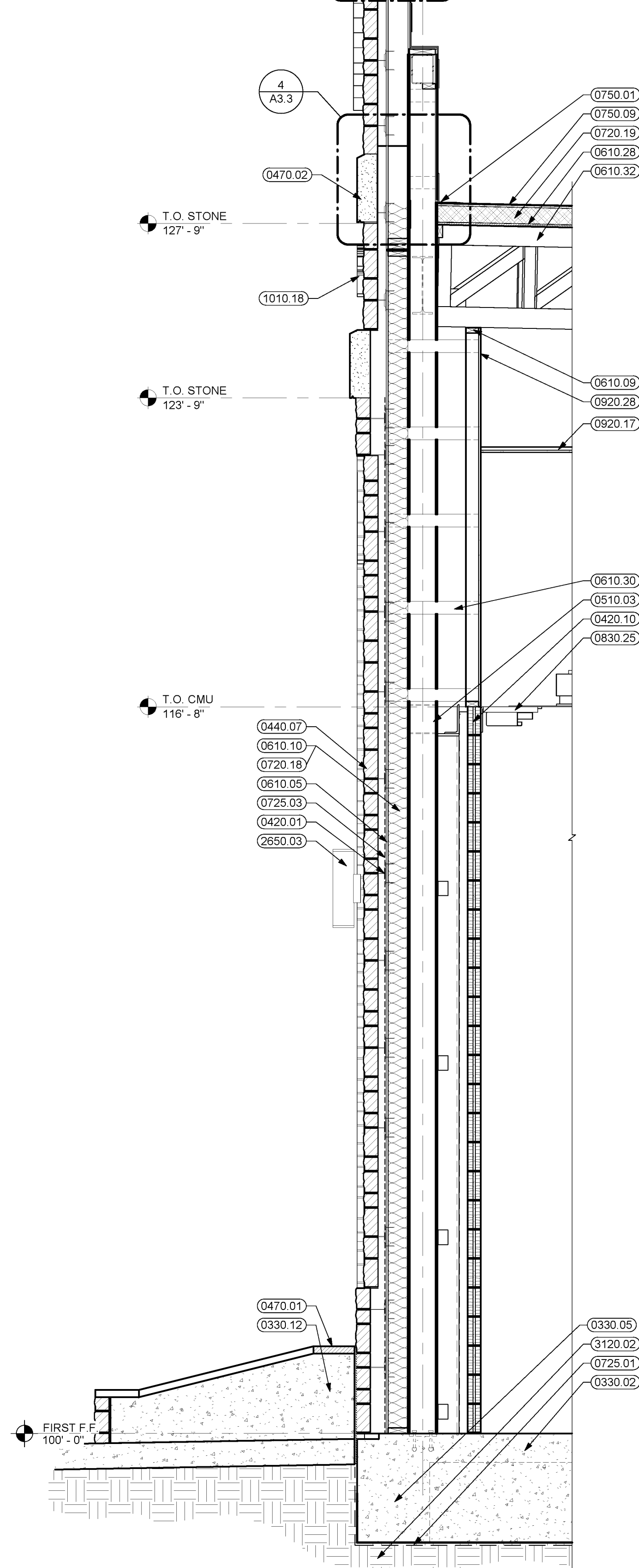
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1/2" = 1'-0"



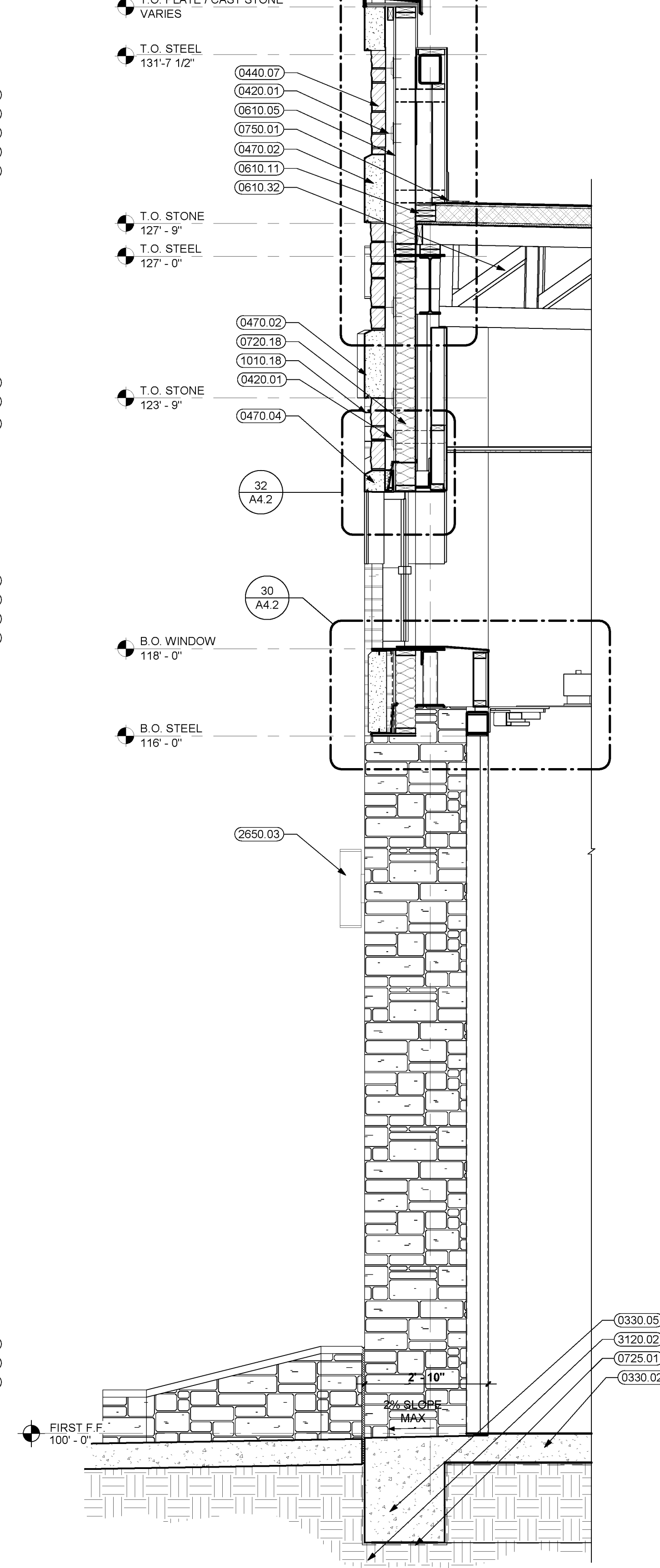
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1/2" = 1'-0"



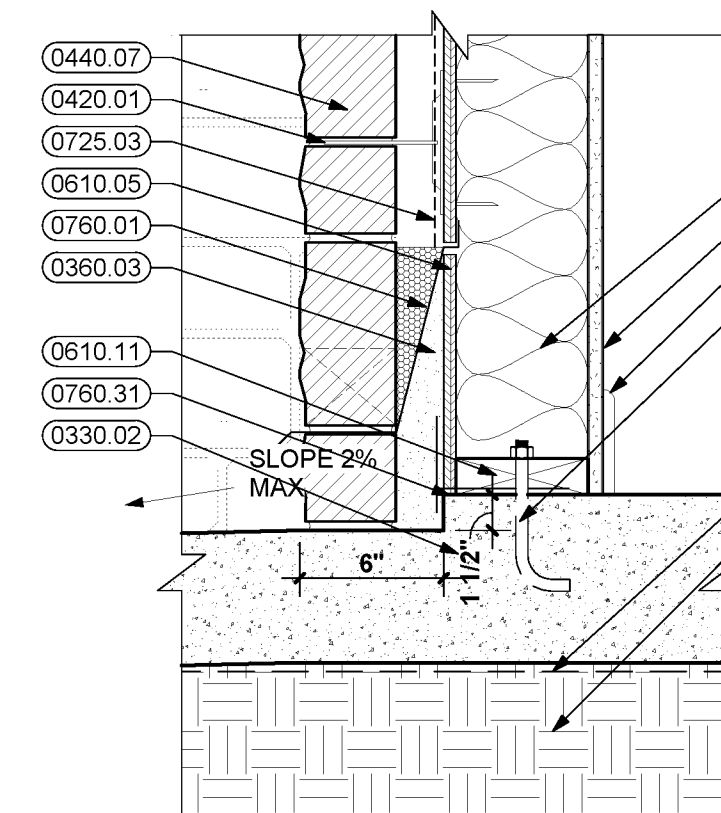
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1/2" = 1'-0"



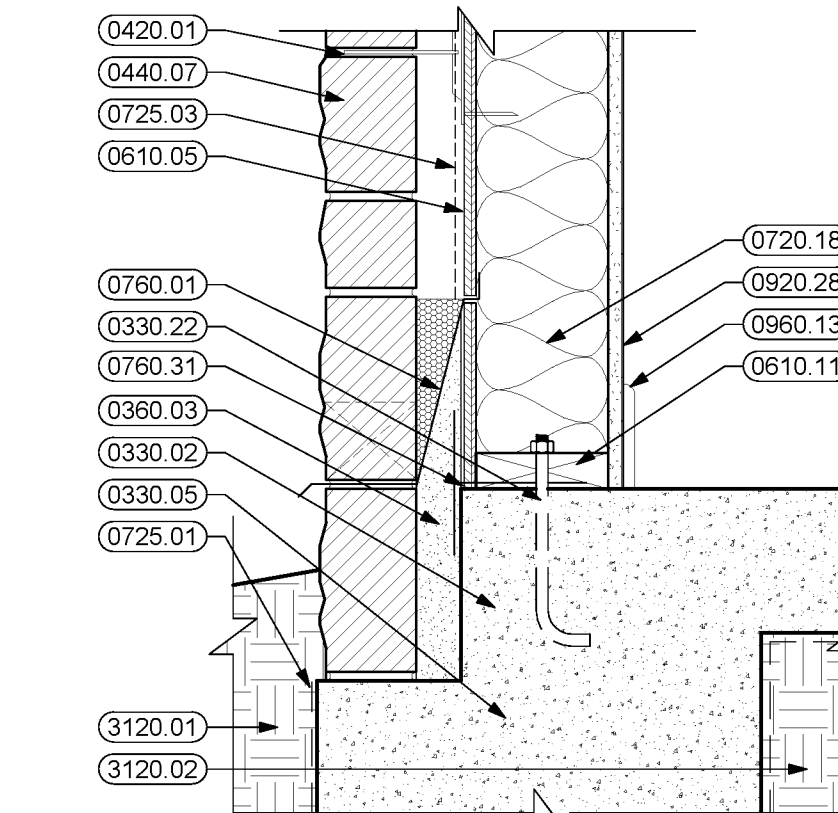
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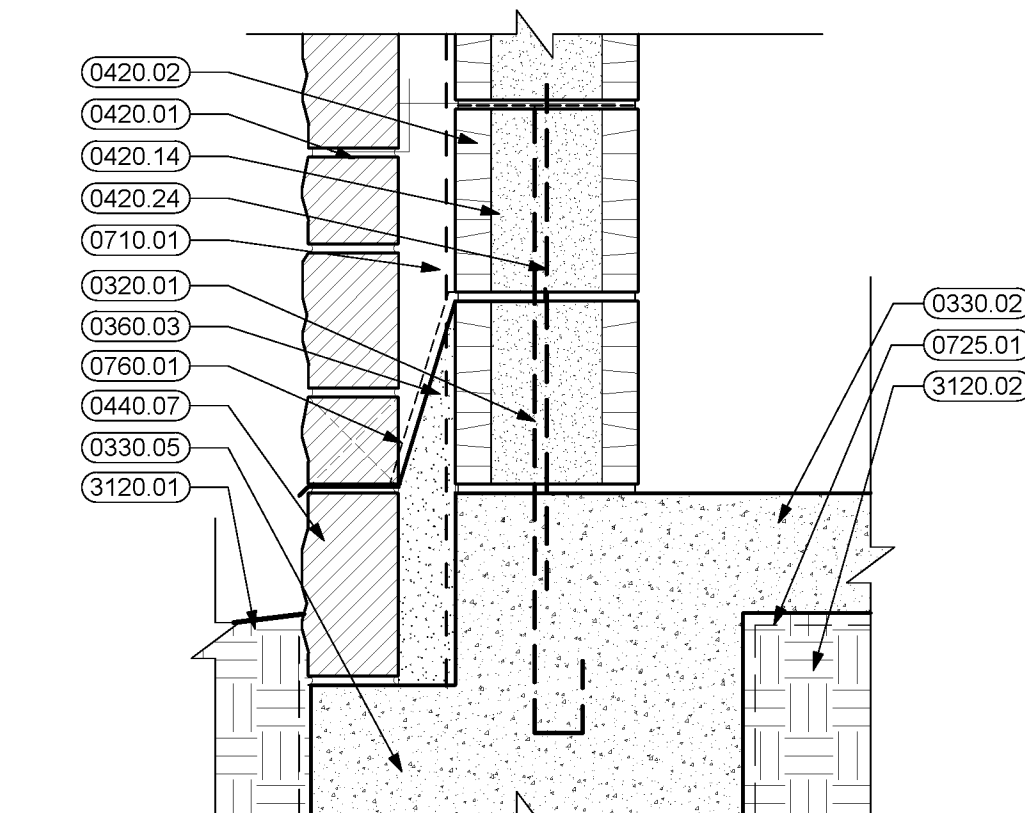
1 WALL SECTION
1/2" = 1'-0"



8 SECTION DETAIL
1 1/2" = 1'-0"



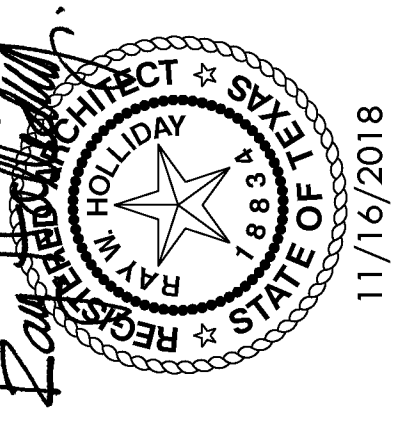
7 SECTION DETAIL
1 1/2" = 1'-0"



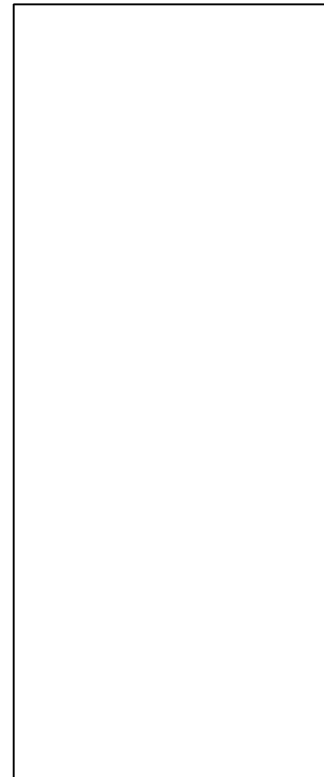
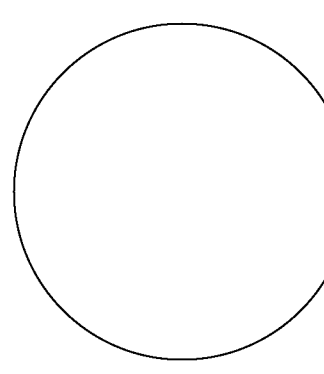
6 SECTION DETAIL
1 1/2" = 1'-0"

KEYNOTES

- 0320.01 DOWEL INTO CONCRETE SLAB
- 0330.02 CONCRETE SLAB (RE: STRUCTURAL)
- 0330.05 CONCRETE GRADE BEAM (RE: STRUCTURAL)
- 0330.12 CONCRETE BOLLARD
- 0330.22 ANCHOR BOLT
- 0360.03 FILL WITH GROUT
- 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C. E/W
- 0420.02 HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
- 0420.10 4" CONCRETE MASONRY UNITS
- 0420.14 8" CONCRETE MASONRY UNITS
- 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE: STRUCTURAL)
- 0440.07 STONE VENEER
- 0470.01 CAST STONE
- 0470.02 CAST STONE STRING COURSE
- 0470.04 CAST STONE LINTEL WITH DRIP
- 0510.01 STEEL TUBE COLUMN (RE: STRUCTURAL)
- 0510.03 STEEL LINTEL / PLATE (RE: STRUCTURAL)
- 0510.06 STEEL LINTEL / PLATE (RE: STRUCTURAL)
- 0570.13 DECORATIVE STEEL BOLLARD
- 0610.03 2X WOOD BLOCKING
- 0610.05 1/2" EXTERIOR GRADE PLYWOOD
- 0610.07 3/4" EXTERIOR GRADE PLYWOOD
- 0610.09 2 X 4 WOOD STUDS AT 16" O.C.
- 0610.10 2 X 6 WOOD STUDS AT 16" O.C.
- 0610.11 2 X 6 WOOD FRAMING
- 0610.28 3/4" PLYWOOD
- 0610.30 2X4 WOOD FRAMING
- 0610.32 PREFABRICATED WOOD TRUSS (RE: STRUCTURAL)
- 0710.01 BITUMINOUS DAMPROOFING
- 0720.09 1/2" RIGID INSULATION COVERBOARD
- 0720.18 5 1/2" BATT INSULATION
- 0720.19 ROOF INSULATION PANEL WITH R-23.5 INSULATION AND NAIL BASE
- 0725.01 UNDERSLAB VAPOR BARRIER
- 0725.03 PLASTIC FILM AIR BARRIER
- 0750.01 ROOFING BASE FLASHING SYSTEM
- 0750.09 PVC MEMBRANE ROOFING SYSTEM
- 0760.01 THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.) AND MORTAR NET
- 0760.04 PREFINISHED METAL DOWNSPOUT
- 0760.31 SILL SEALER
- 0830.14 OVERHEAD COILING DOOR
- 0830.25 ELECTRIC OPERATED FOLDING DOOR
- 0920.17 SUSPENDED GYPSUM BOARD PANELS ON METAL STUD FRAMING
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0960.13 4" RESILIENT BASE
- 1010.18 METAL LETTERING
- 2650.03 SURFACE-MOUNTED LIGHT FIXTURE
- 3120.01 GRADE
- 3120.02 COMPACTED SELECT FILL



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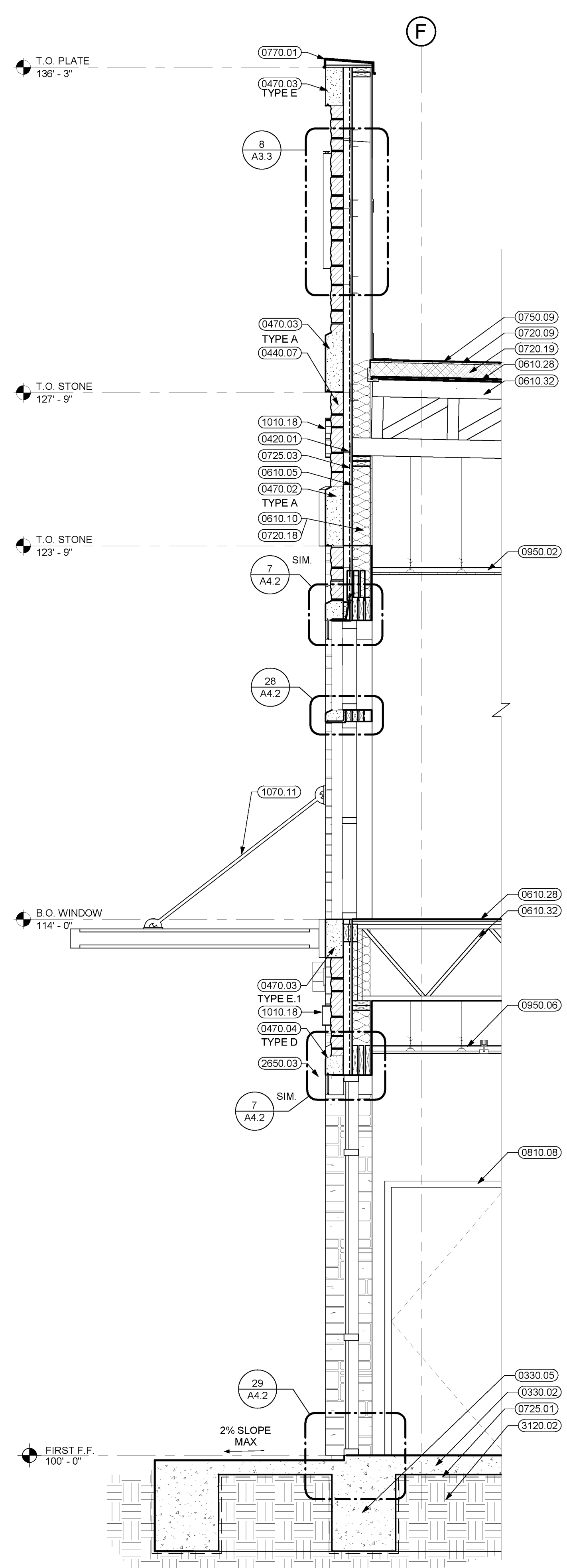


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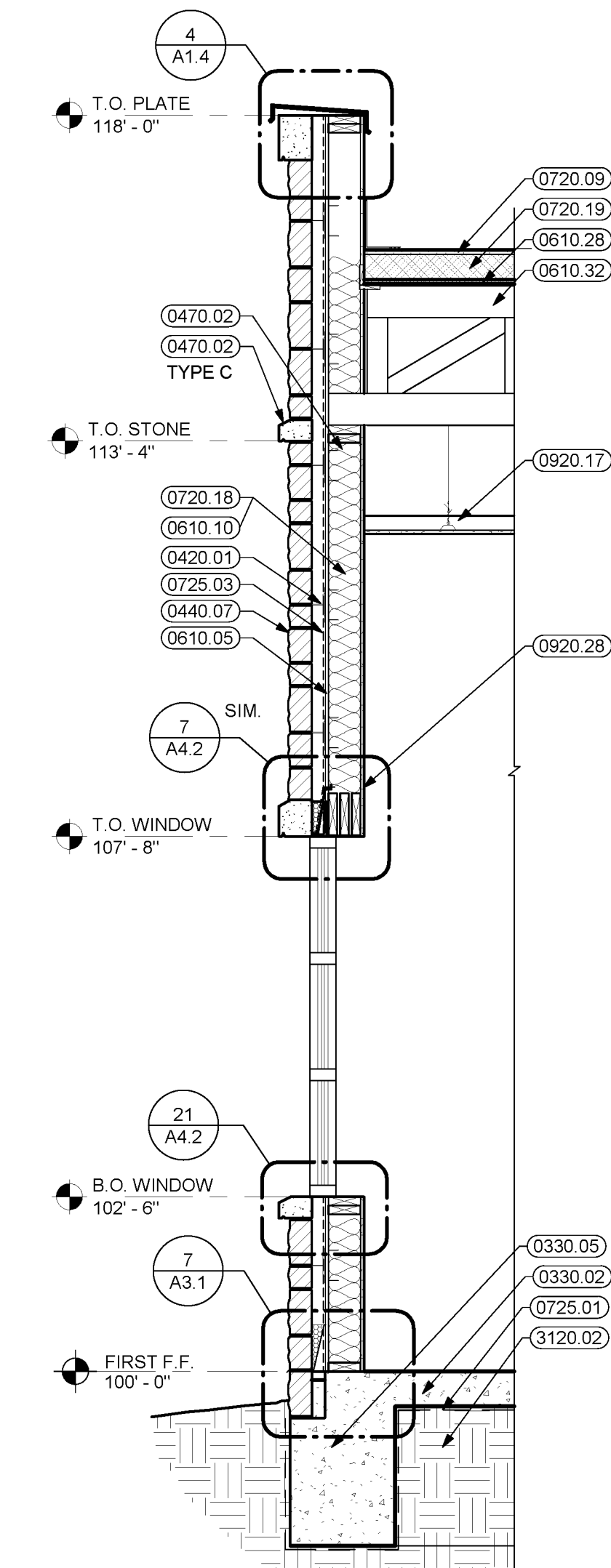
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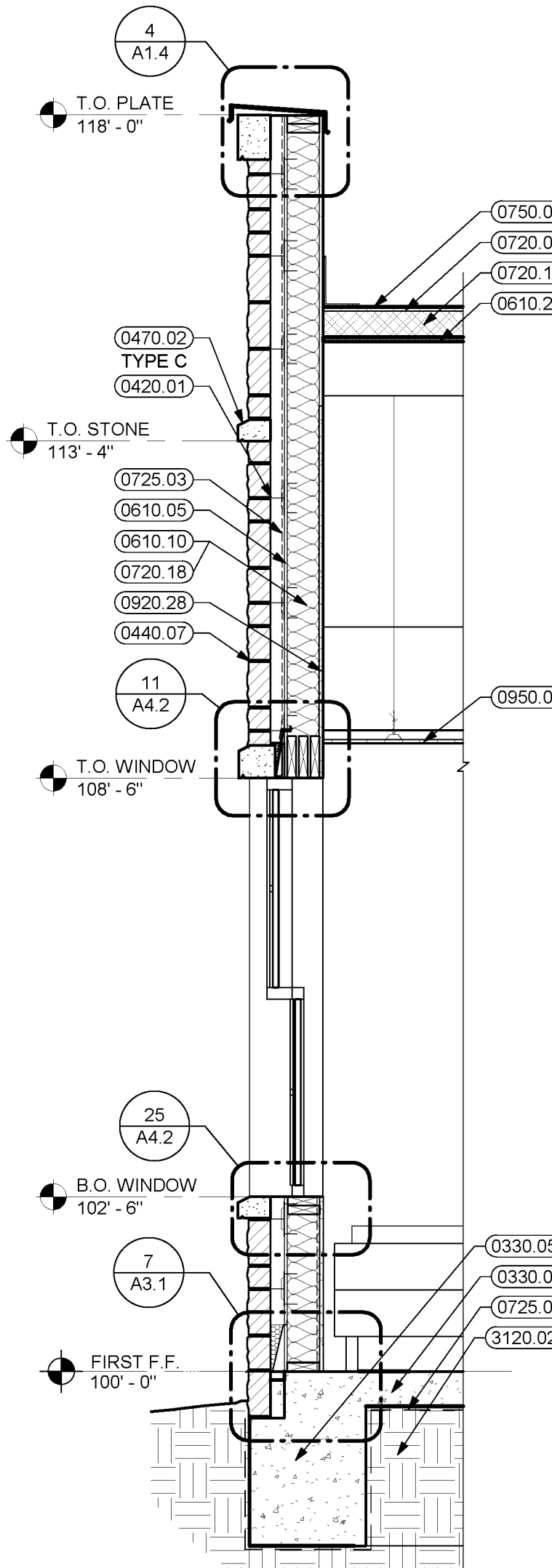
A3.1
WALL SECTIONS



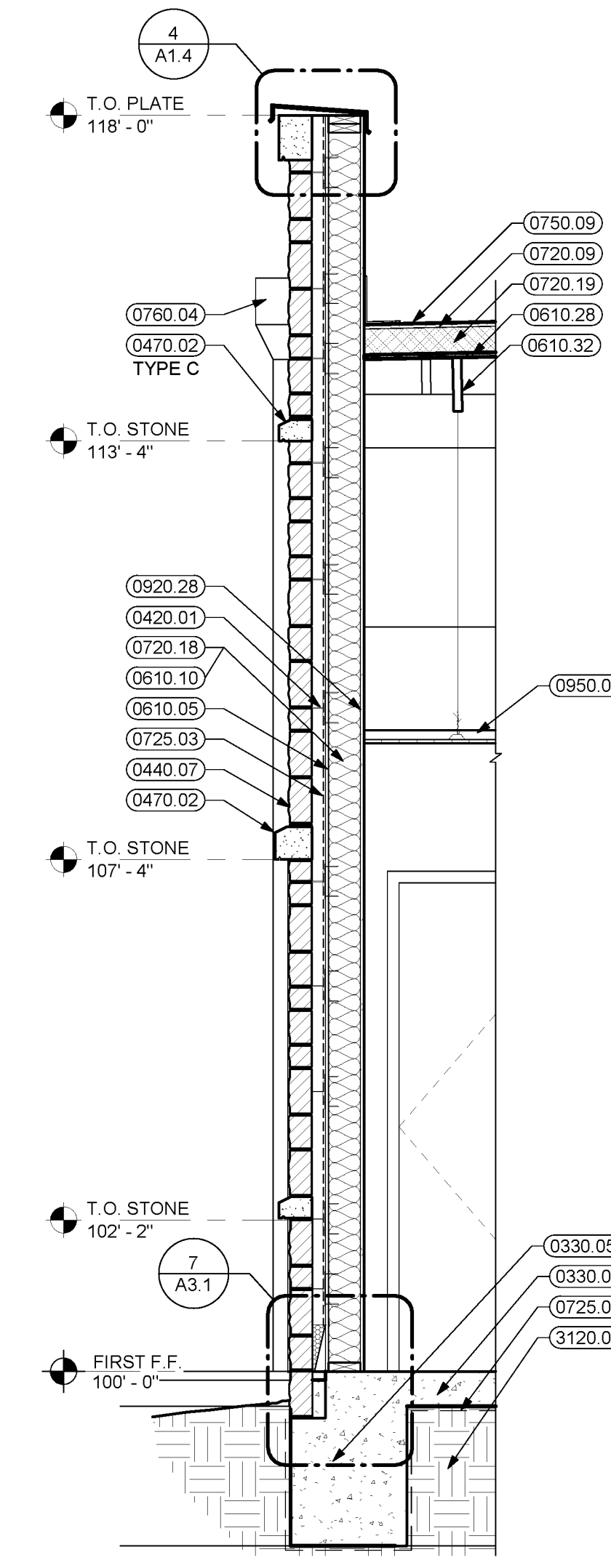
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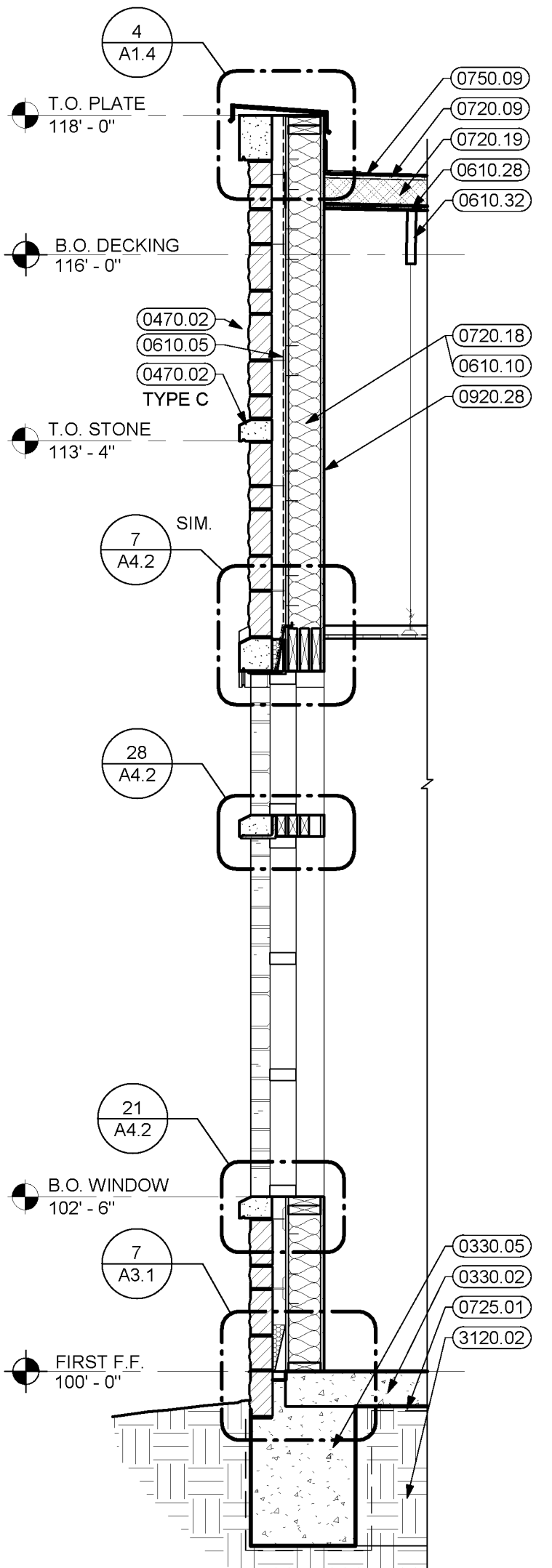
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1/2" = 1'-0"



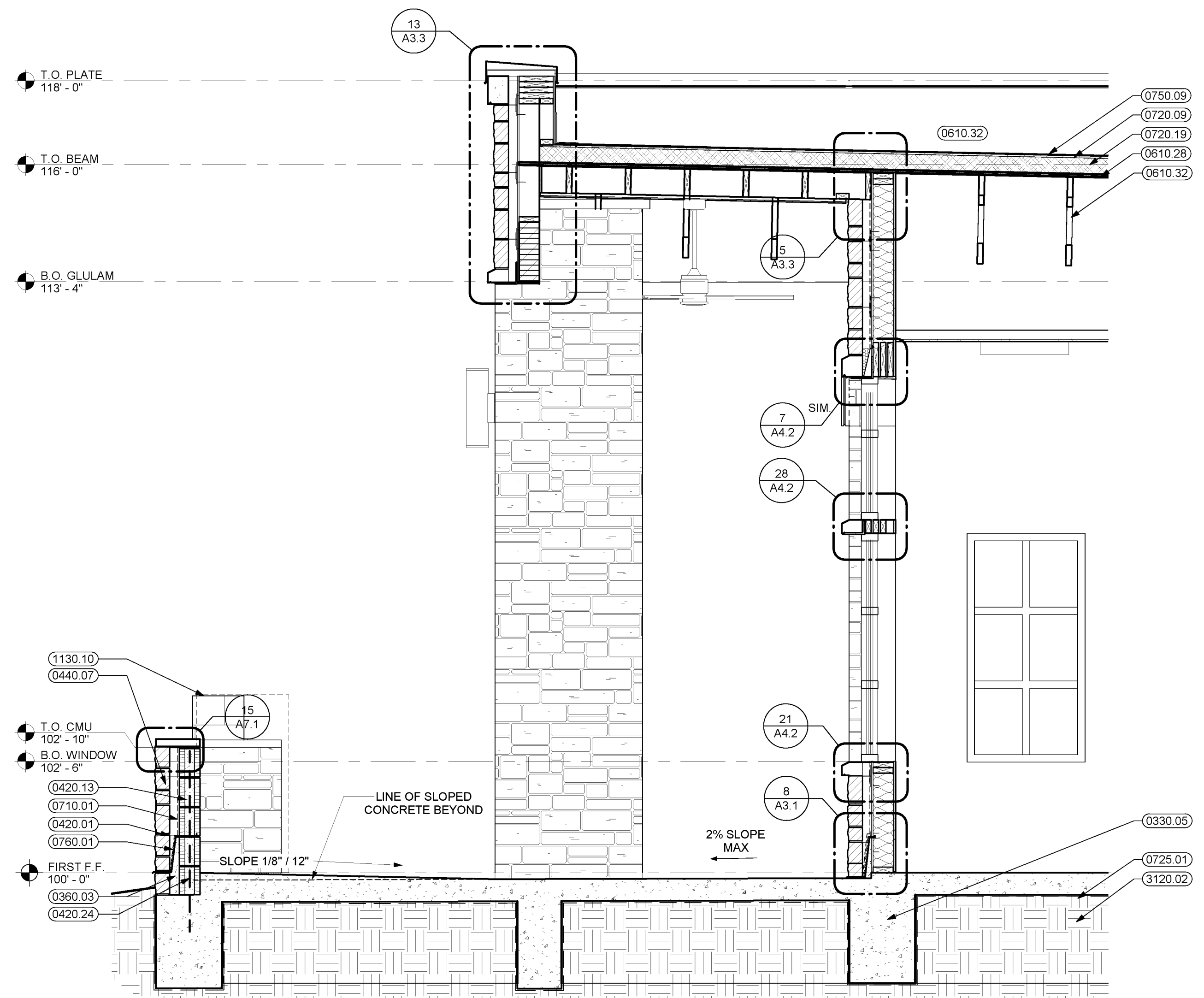
3 WALL SECTION
1/2" = 1'-0"



2 WALL SECTION
1/2" = 1'-0"



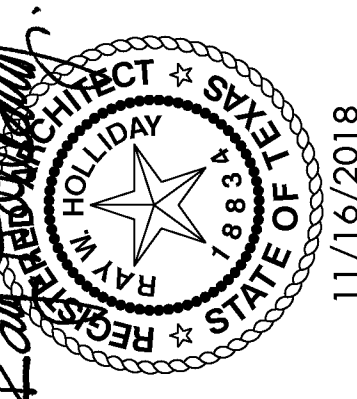
1 WALL SECTION
1/2" = 1'-0"



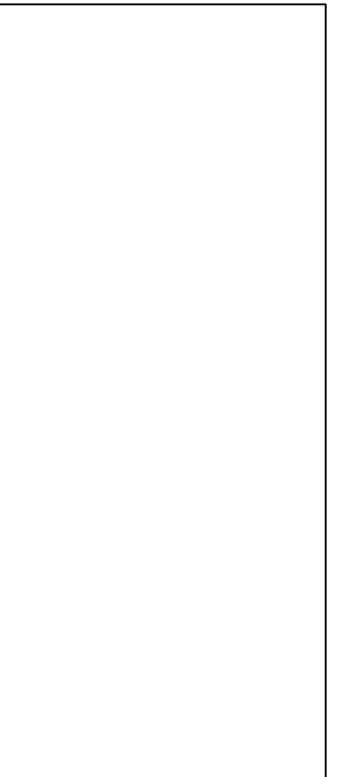
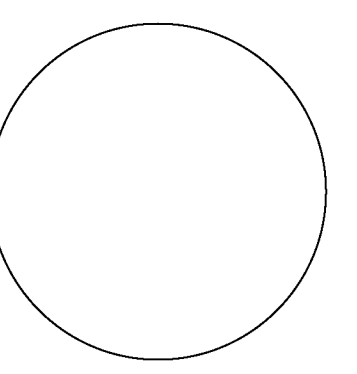
5 WALL SECTION
1/2" = 1'-0"

KEYNOTES

- 0320.01 DOWEL INTO CONCRETE SLAB
- 0330.02 CONCRETE SLAB (RE: STRUCTURAL)
- 0330.05 CONCRETE GRADE BEAM (RE: STRUCTURAL)
- 0360.03 FILL WITH GROUT
- 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
- 0420.13 6" CONCRETE MASONRY UNITS
- 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE: STRUCTURAL)
- 0440.07 STONE VENEER
- 0470.02 CAST STONE STRING COURSE
- 0470.03 CAST STONE CORNICE WITH DRIP
- 0470.04 CAST STONE LINTEL WITH DRIP
- 0610.05 1/2" EXTERIOR GRADE PLYWOOD
- 0610.10 2 X 6 WOOD STUDS AT 16" O.C.
- 0610.28 3/4" PLYWOOD
- 0610.32 PREFABRICATED WOOD TRUSS (RE: STRUCTURAL)
- 0710.01 BITUMINOUS DAMPPROOFING
- 0720.09 1/2" RIGID INSULATION COVERBOARD
- 0720.18 5 1/2" BATT INSULATION
- 0720.19 ROOF INSULATION PANEL WITH R-23.5 INSULATION AND NAIL BASE
- 0725.01 UNDERSLAB VAPOR BARRIER
- 0725.03 PLASTIC FILM AIR BARRIER
- 0750.09 PVC MEMBRANE ROOFING SYSTEM
- 0760.01 THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.) AND MORTAR NET
- 0760.04 PREFINISHED METAL DOWNSPOUT
- 0770.01 PREFINISHED METAL COPING SYSTEM
- 0810.08 SOLID CORE WOOD DOOR
- 0920.17 SUSPENDED GYPSUM BOARD PANELS ON METAL STUD FRAMING
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0950.02 SUSPENDED ACOUSTICAL TILE CEILING (2 X 4)
- 0950.06 SUSPENDED LINEAR WOOD CEILING SYSTEM
- 1010.18 METAL LETTERING
- 1070.11 PRE-MANUFACTURED EXTERIOR ALUMINUM CANOPY SYSTEM
- 1130.10 OUTDOOR GAS GRILLE (O.P.C.I.)
- 2650.03 SURFACE-MOUNTED LIGHT FIXTURE
- 3120.02 COMPACTED SELECT FILL



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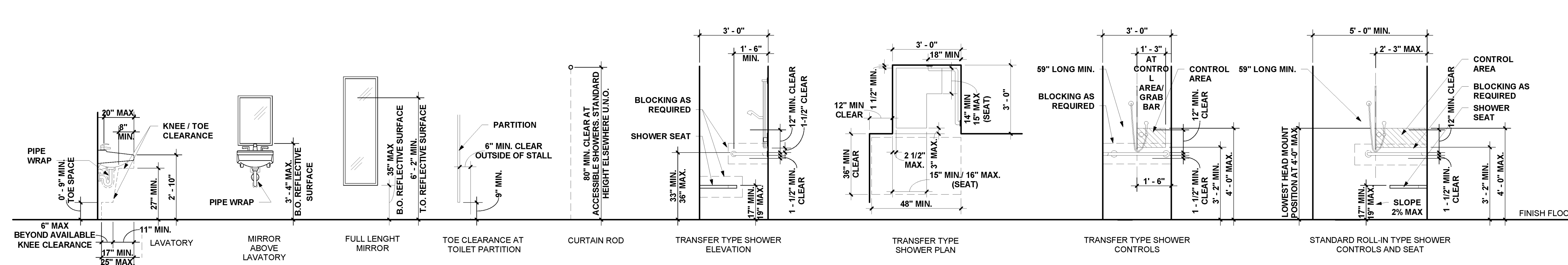
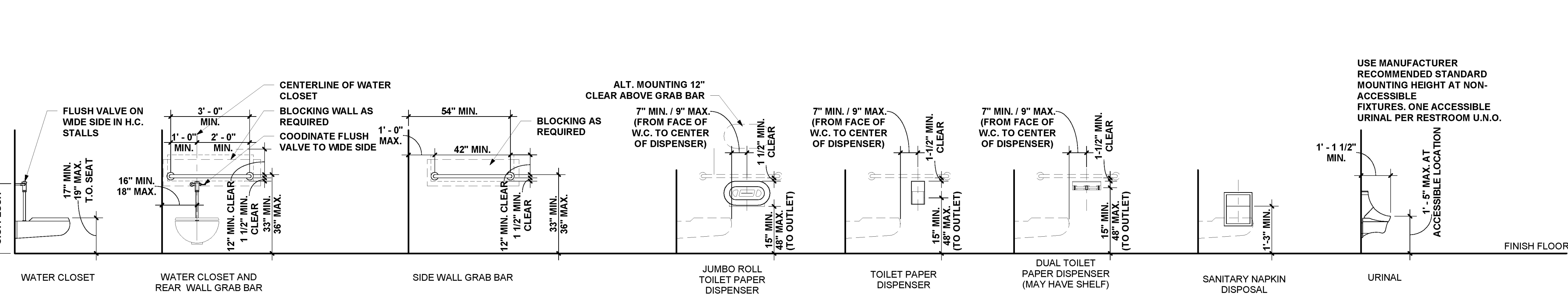
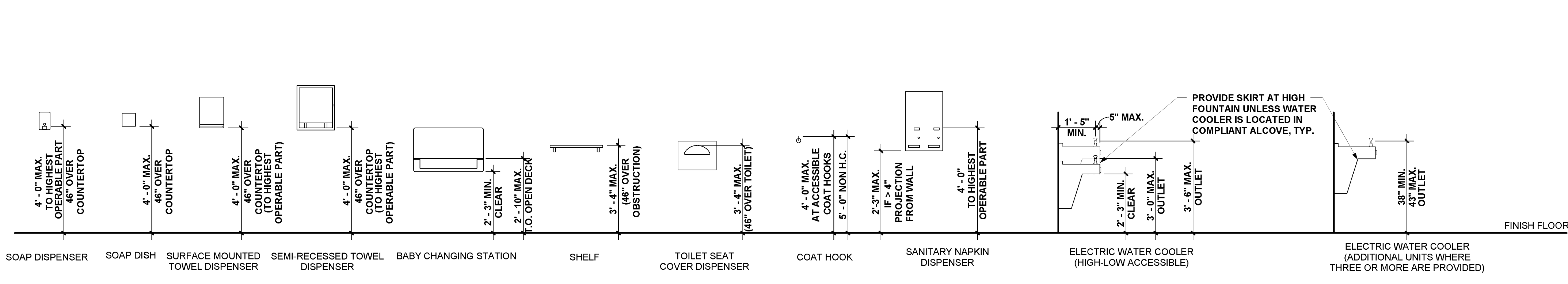
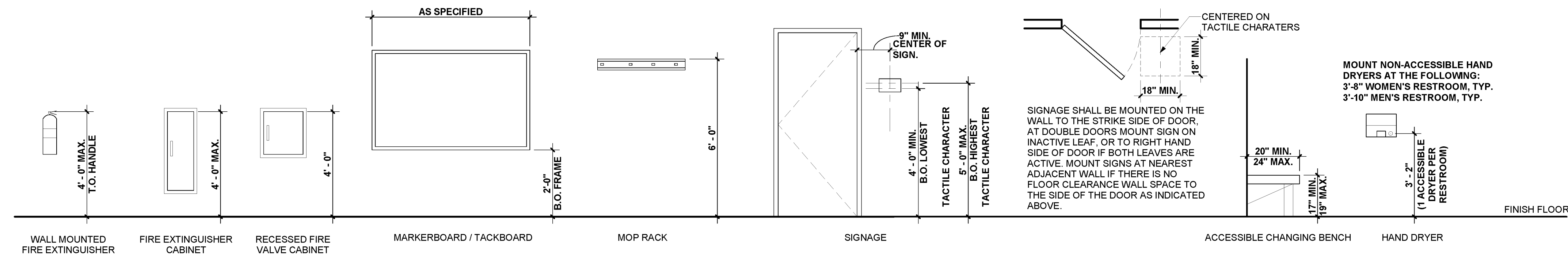


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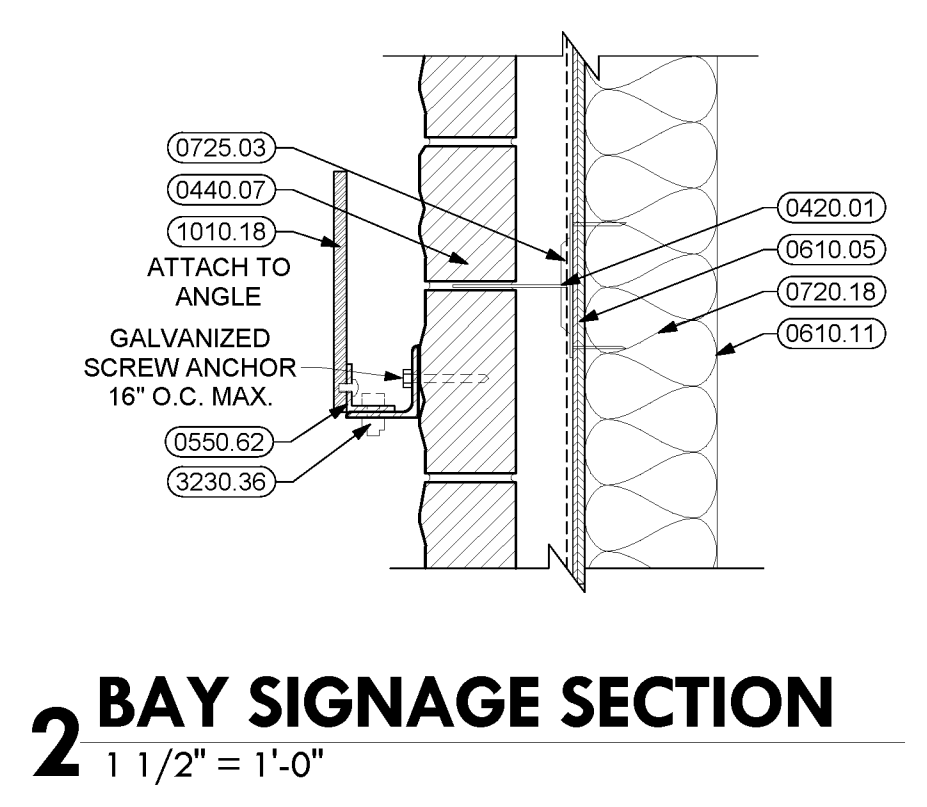
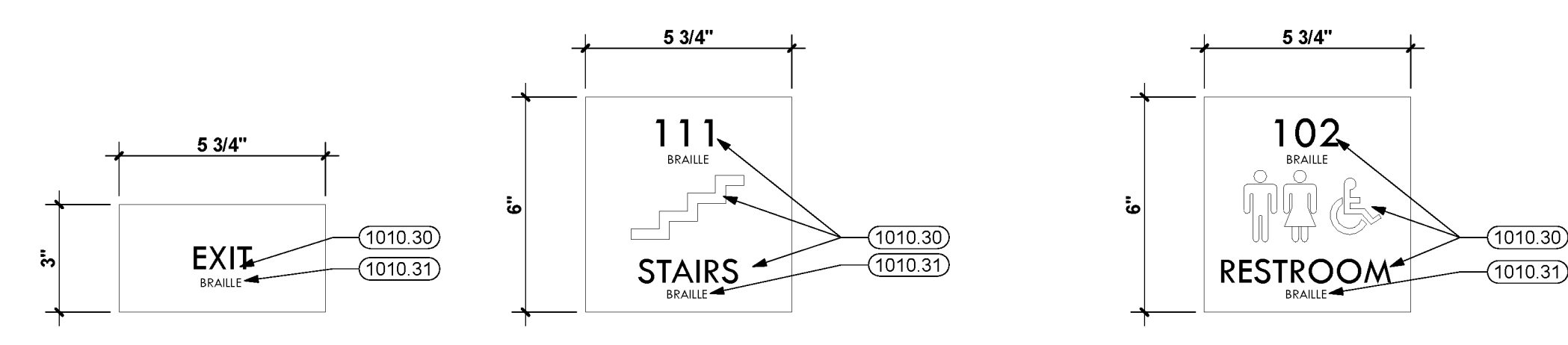
NO.	REVISION	DATE

A3.2
WALL SECTIONS



TYPICAL MOUNTING HEIGHTS

NOT TO SCALE



- NOTES:
- 1) CENTER ALL TEXT/SYMBOLS/LOGOS WITHIN SIGNAGE
 - 2) TEXT/SYMBOLS SHALL BE RAISED A MINIMUM OF 1/16"
 - 3) EVERY ROOM SHALL RECEIVE A ROOM SIGN WITH ROOM NUMBER, AND A PICTOGRAM WITH ROOM NAME AT STAIRS, RESTROOMS, AND SHOWER ROOMS
 - 4) OWNER SHALL FURNISH ELECTRONIC FILE(S) FOR PRINTED GRAPHIC INSERTS CONTAINING LOGOS AND ROOM NAME
 - 5) SIGN SHALL BE A CURVED ANODIZED SILVER ALUMINUM BODY ROOM SIGN WITH BLACK IMPACT-MODIFIED PLASTIC END CAPS AND A NON-GLARE LENS
 - 6) SIGN MANUFACTURER SHALL CONFORM TO ALL APPLICABLE STANDARDS AND ADA GUIDELINES FOR INTERIOR ROOM/TACTILE SIGNAGE
 - 7) PROVIDE TACTILE EGRESS SIGNAGE AT ALL DOORS AT EXIT PASSAGEWAYS, EXIT DISCHARGE, AND EXIT STAIRWAYS (RE: L51.1 FOR EXIT LOCATIONS)
 - 8) REFERENCE A5.1 FOR MOUNTING HEIGHTS/DISTANCES FROM DOORWAYS
 - 9) ALL INTERIOR SIGNAGE SHALL BE TAS/ADA COMPLIANT.

5 INTERIOR SIGNAGE

3" = 1'-0"

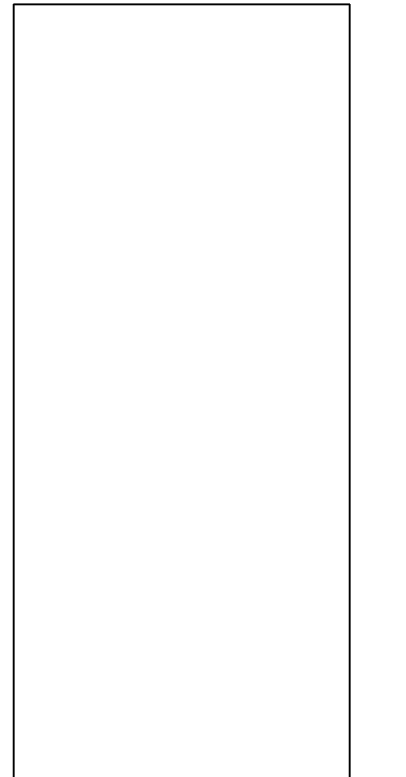
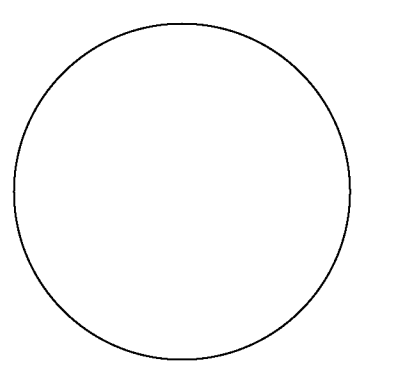
KEYNOTES

- 0420 01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
- 0440 07 STONE VENEER
- 0550 02 VERTICAL Z-CHANNELS @ 16" O.C.
- 0610 05 1/2" EXTERIOR GRADE PLYWOOD
- 0610 11 2 X 6 WOOD FRAMING
- 0720 18 5 1/2" BATT INSULATION
- 0725 03 PLASTIC FILM AIR BARRIER
- 1010 18 METAL LETTERING
- 1010 30 RAISED LETTERS AND SYMBOLS
- 1010 31 RAISED BRILLE LETTERING
- 3230 36 THROUGH-BOLT



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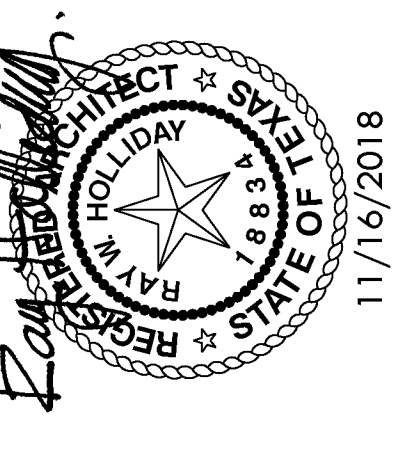
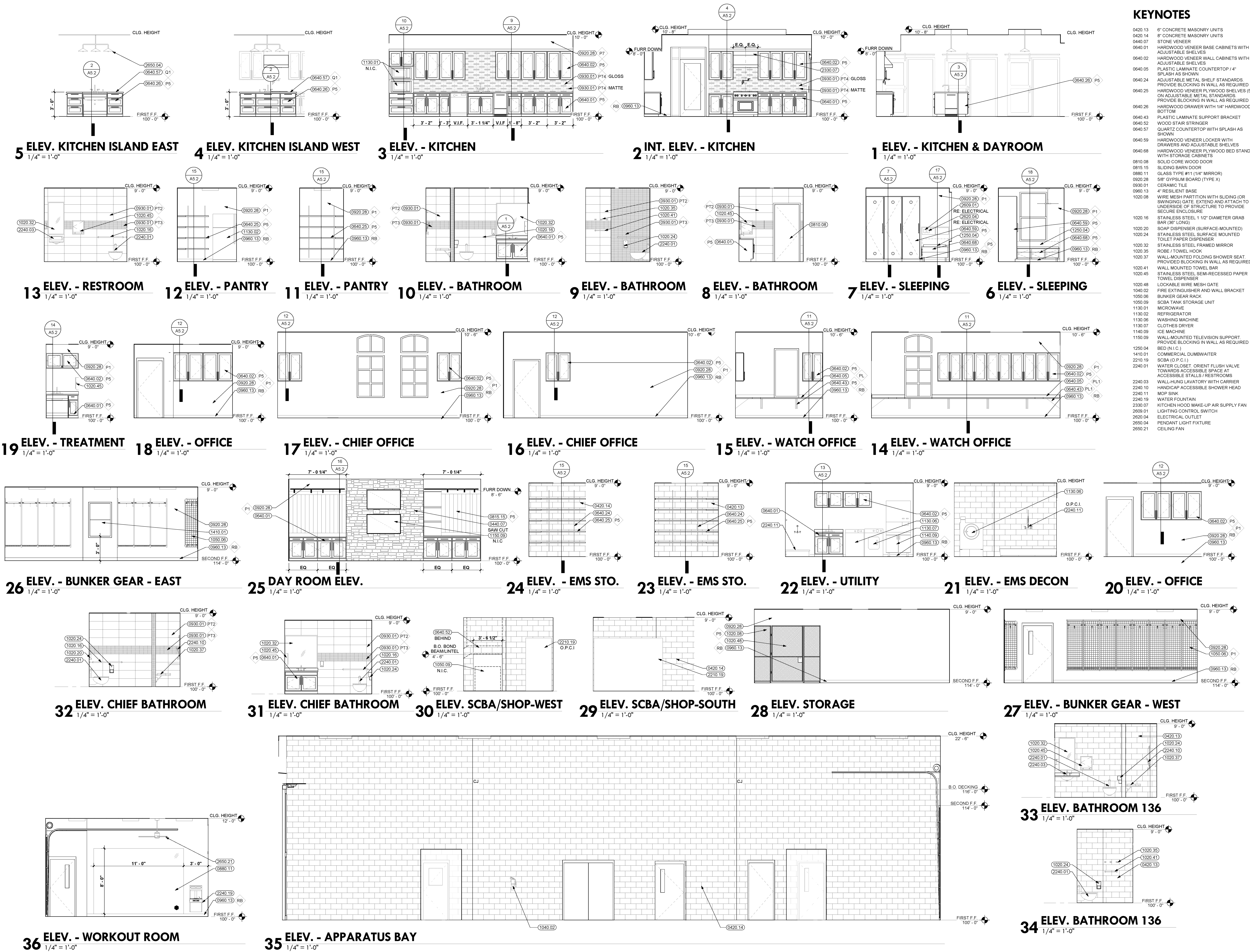
FIRE STATION No. 7

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GEORGETOWN, TX 78626

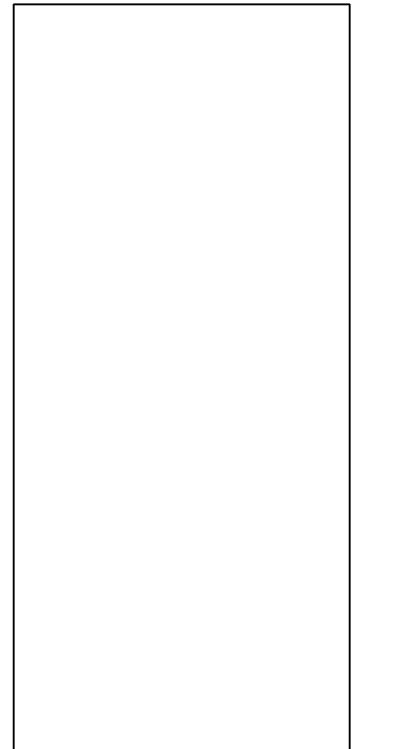
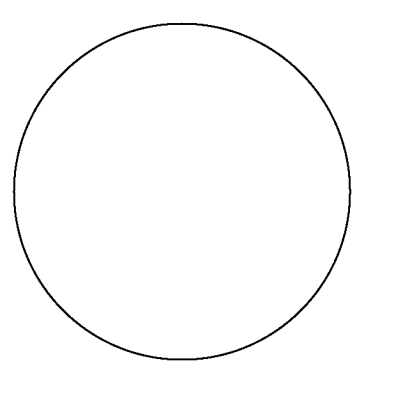
NO.	REVISION	DATE

KEYNOTES

- 0420.13 6" CONCRETE MASONRY UNITS
- 0420.14 8" CONCRETE MASONRY UNITS
- 0440.07 STONE VENEER
- 0640.01 HARDWOOD VENEER BASE CABINETS WITH ADJUSTABLE SHELVES
- 0640.02 HARDWOOD VENEER WALL CABINETS WITH ADJUSTABLE SHELVES
- 0640.05 PLASTIC LAMINATE COUNTERTOP 1/4" SPLASH AS SHOWN
- 0640.25 ADJUSTABLE METAL SHELF STANDARDS PROVIDE BLOCKING IN WALL AS REQUIRED
- 0640.24 HARDWOOD VENEER PLYWOOD SHELVES (5) ON ADJUSTABLE METAL STANDARDS PROVIDE BLOCKING IN WALL AS REQUIRED
- 0640.26 HARDWOOD DRAWER WITH 1/4" HARDWOOD BOTTOM
- 0640.43 PLASTIC LAMINATE SUPPORT BRACKET
- 0640.52 WOOD STAIR STRINGER
- 0640.57 QUARTZ COUNTERTOP WITH SPLASH AS SHOWN
- 0640.59 HARDWOOD VENEER LOCKER WITH DRAWERS AND ADJUSTABLE SHELVES
- 0640.68 HARDWOOD VENEER PLYWOOD BED STAND WITH STORAGE CABINETS
- 0815.15 SLIDING BARN DOOR
- 0880.11 GLASS TYPE #11 (1/4" MIRROR)
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0930.01 CERAMIC TILE
- 0960.13 4" RESILIENT BASE
- 1020.08 WIRE MESH PARTITION WITH SLIDING (OR SWINGING) GATE, EXTEND AND ATTACH TO UNDERSIDE OF STRUCTURE TO PROVIDE SECURE ENCLOSURE
- 1020.16 STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (36" LONG)
- 1020.20 SOAP DISPENSER (SURFACE-MOUNTED)
- 1020.24 STAINLESS STEEL SURFACE MOUNTED TOILET PAPER DISPENSER
- 1020.32 STAINLESS STEEL FRAMED MIRROR
- 1020.35 ROBE/TOWEL HOOK
- 1020.37 WALL-MOUNTED FOLDING SHOWER SEAT PROVIDED BLOCKING IN WALL AS REQUIRED
- 1020.41 WALL MOUNTED TOWEL BAR
- 1020.45 STAINLESS STEEL SEMI-RECESSED PAPER TOWEL DISPENSER
- 1020.48 LOCKABLE WIRE MESH GATE
- 1040.02 FIRE EXTINGUISHER AND WALL BRACKET
- 1050.06 BUNKER GEAR RACK
- 1050.09 SCBA TANK STORAGE UNIT
- 1130.01 MICROWAVE
- 1130.02 REFRIGERATOR
- 1130.06 WASHING MACHINE
- 1130.07 CLOTHES DRYER
- 1140.09 ICE MACHINE
- 1150.09 WALL-MOUNTED TELEVISION SUPPORT, PROVIDE BLOCKING IN WALL AS REQUIRED
- 1250.04 BED (N.I.C.)
- 1410.01 COMMERCIAL DUMBWAITER
- 2210.19 SCBA (O.P.C.I.)
- 2240.01 WATER CLOSET ORIENT FLUSH VALVE TOWARDS ACCESSIBLE SPACE AT ACCESSIBLE STALLS / RESTROOMS
- 2240.03 WALL-HUNG LAVATORY WITH CARRIER HANDICAP ACCESSIBLE SHOWER HEAD
- 2240.10 MOP SINK
- 2240.19 WATER FOUNTAIN
- 2330.07 KITCHEN HOOD MAKE-UP AIR SUPPLY FAN
- 2609.01 LIGHTING CONTROL SWITCH
- 2620.04 ELECTRICAL OUTLET
- 2650.04 PENDANT LIGHT FIXTURE
- 2650.21 CEILING FAN



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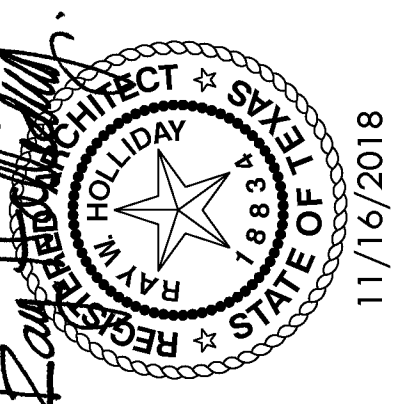


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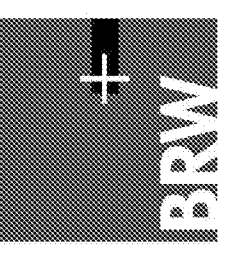
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A5.1
 INTERIOR ELEVATIONS



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KEYNOTES

- 0360.03 FILL WITH GROUT
- 0420.02 HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
- 0420.13 6" CONCRETE MASONRY UNITS
- 0420.14 8" CONCRETE MASONRY UNITS
- 0420.23 CONCRETE MASONRY BOND BEAM
- 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE. STRUCTURAL)
- 0610.01 SHIM AS REQUIRED
- 0610.03 2X WOOD BLOCKING
- 0610.09 2 X 4 WOOD STUDS AT 16" O.C.
- 0610.11 2 X 6 WOOD FRAMING
- 0610.29 2X WOOD FURRING STRIPS
- 0640.63 1/2" PLYWOOD
- 0740.18 FIBER REINFORCED CEMENTITIOUS WALL/SKEFFIT PANEL WITH TRIMS
- 0770.09 ROOF HATCH WITH INTEGRAL COUNTERFLASHING
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0810.04 HOLLOW METAL DOOR AND FRAME
- 0920.17 SUSPENDED GYPSUM BOARD PANELS ON METAL STUD FRAMING
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.35 CORNER BEAD, TYPICAL
- 0920.36 J-MOULD, TYPICAL
- 0920.38 PRE-MANUFACTURED CONTINUOUS ALUMINUM F REVEAL MOLDING
- 0920.45 5/8" GYPSUM BOARD MOISTURE RESISTANT (TYPE X)
- 0950.01 SUSPENDED ACOUSTICAL LAY-IN TILE CEILING (2 X 2)
- 0950.06 SUSPENDED LINEAR WOOD CEILING SYSTEM
- 0980.03 3 1/2" FIBERGLASS SOUND ATTENUATION INSULATION
- 1070.11 PRE-MANUFACTURED EXTERIOR ALUMINUM CANOPY SYSTEM

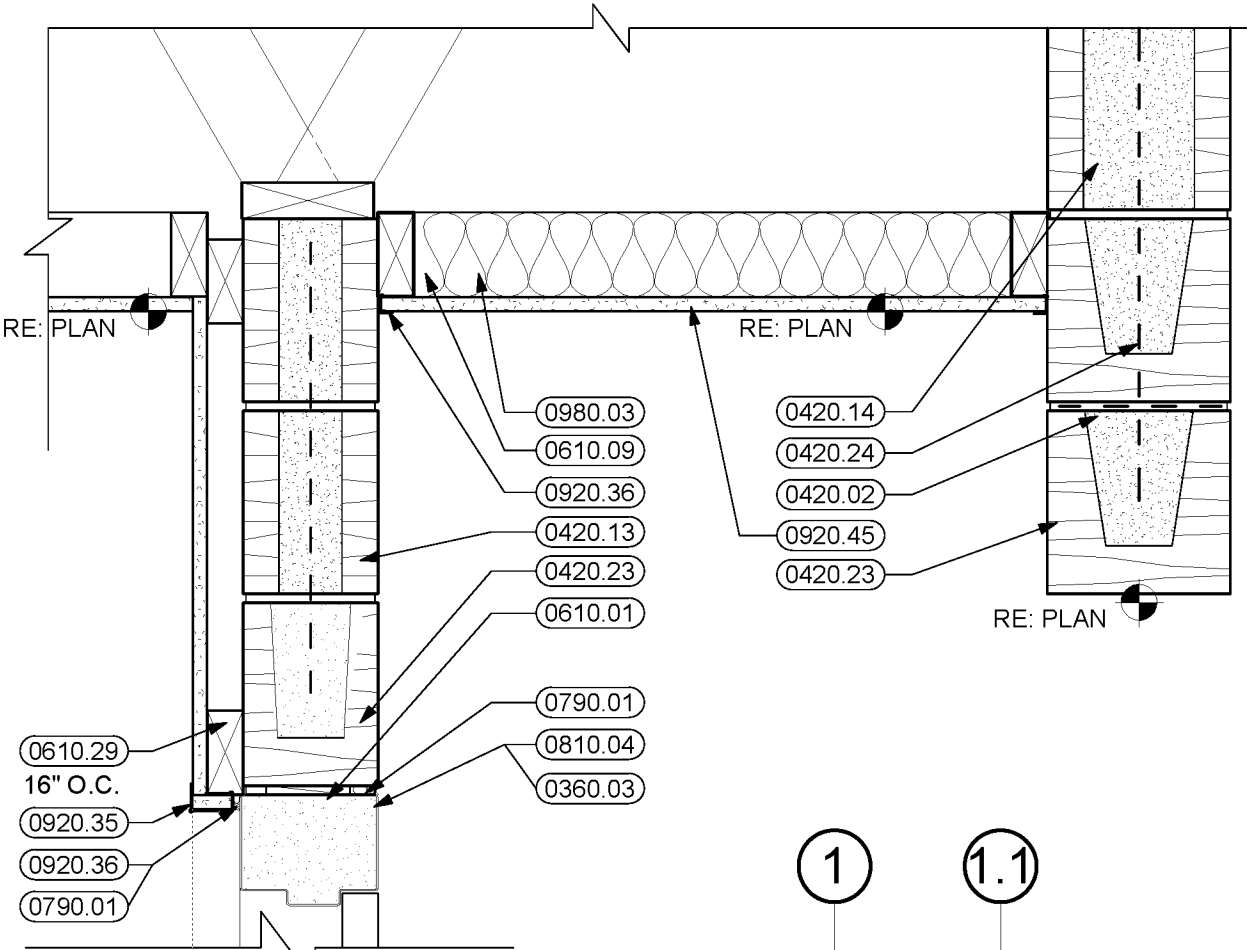
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[Symbol]	SUPPLY AIR DIFFUSER
[Symbol]	RETURN AIR/EXHAUST GRILLE
[Symbol]	CEILING ACCESS PANEL
[Symbol]	EXHAUST FAN
[Symbol]	WALL MOUNTED MINI-SPLIT
[Symbol]	2 X 2 VRV CASSETTE
[Symbol]	GAS UNIT HEATER
[Symbol]	2 X 2 LAY-IN LED LIGHT FIXTURE
[Symbol]	2 X 2 LAY-IN LED LIGHT FIXTURE W/ EMERGENCY ILLUMINATION
[Symbol]	2 X 4 LAY-IN LED LIGHT FIXTURE
[Symbol]	2 X 4 LAY-IN LED LIGHT FIXTURE W/ EMERGENCY ILLUMINATION
[Symbol]	1 X 4 SURFACE MOUNTED LED LIGHT FIXTURE
[Symbol]	1 X 4 SURFACE MOUNTED LED LIGHT FIXTURE W/ EMERGENCY ILLUMINATION
[Symbol]	2 X 4 HIGH-BAY SURFACE MOUNTED LED LIGHT FIXTURE W/ EMERGENCY ILLUMINATION
[Symbol]	2 X 4 HIGH-BAY SURFACE MOUNTED LED LIGHT FIXTURE W/ EMERGENCY ILLUMINATION
[Symbol]	2 X 2 RECESSED LED LIGHT FIXTURE
[Symbol]	2 X 2 RECESSED LED LIGHT FIXTURE W/ EMERGENCY ILLUMINATION
[Symbol]	6" RECESSED LED CAN LIGHT
[Symbol]	6" RECESSED LED CAN LIGHT W/ EMERGENCY ILLUMINATION
[Symbol]	4" RECESSED LED CAN LIGHT
[Symbol]	4" RECESSED LED CAN LIGHT W/ EMERGENCY ILLUMINATION
[Symbol]	6" RECESSED LED CAN LIGHT (WET LOCATIONS)
[Symbol]	4" SQUARE RECESSED LED LIGHT
[Symbol]	4" SQUARE RECESSED LED LIGHT W/ EMERGENCY ILLUMINATION
[Symbol]	4" RECESSED LED LINEAR VANITY LIGHT W/ DRYWALL TRIM KIT
[Symbol]	8" RECESSED LED LINEAR VANITY LIGHT W/ DRYWALL TRIM KIT
[Symbol]	UNDERCABINET LED LIGHT
[Symbol]	SURFACE MOUNTED LED STRIP UPLIGHT (TOWER WINDOW SILLS)
[Symbol]	EXTERIOR WALL MOUNTED LED LIGHT
[Symbol]	EXTERIOR WALL MOUNTED LED LIGHT W/ EMERGENCY ILLUMINATION
[Symbol]	EXTERIOR RECESSED WALL LED LIGHT
[Symbol]	CEILING MOUNTED EXIT LIGHT
[Symbol]	BACK MOUNTED EXIT LIGHT
[Symbol]	KITCHEN LED PENDENT
[Symbol]	LOBBY LED PENDENT
[Symbol]	WALL MOUNTED, RECESSED LED FLEXIBLE LIGHT
[Symbol]	WALL MOUNTED BACK-LIT LED SIGNAGE
[Symbol]	14" DIAMETER HIGH VOLUME, LOW SPEED FAN
[Symbol]	36" CEILING FAN
[Symbol]	52" CEILING FAN (OUTDOOR RATED)
[Symbol]	T&G LINEAR WOOD CEILING STAINED TO MATCH MILLWORK/DOORS
[Symbol]	2 X 2 ACOUSTICAL CEILING TILES & GRID, TYP.
[Symbol]	GYPSUM BOARD CEILING W/ CONTROL JOINS (CJ) AT SPECIFIED LOCATIONS, TYP.

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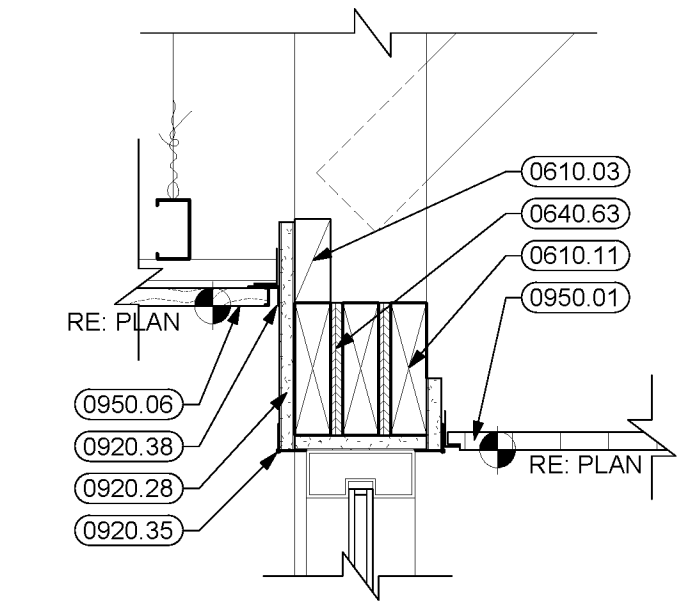
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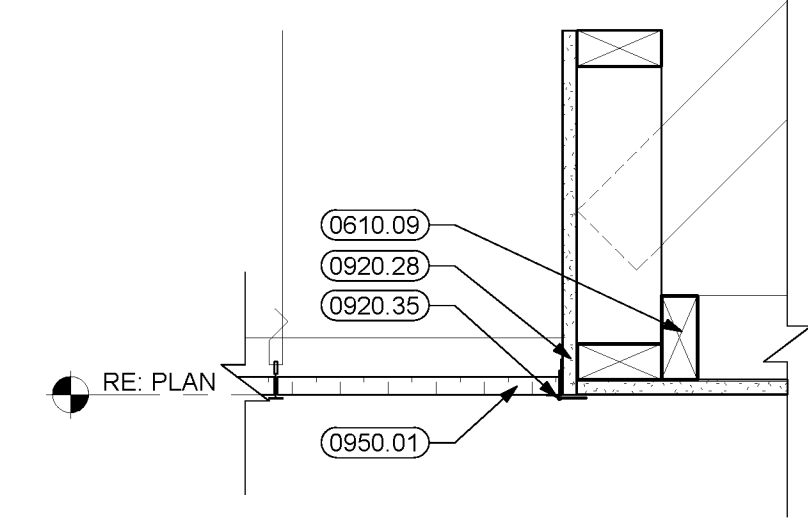
A6.1
 REFLECTED CEILING PLAN



3 CEILING DETAIL
 1 1/2" = 1'-0"

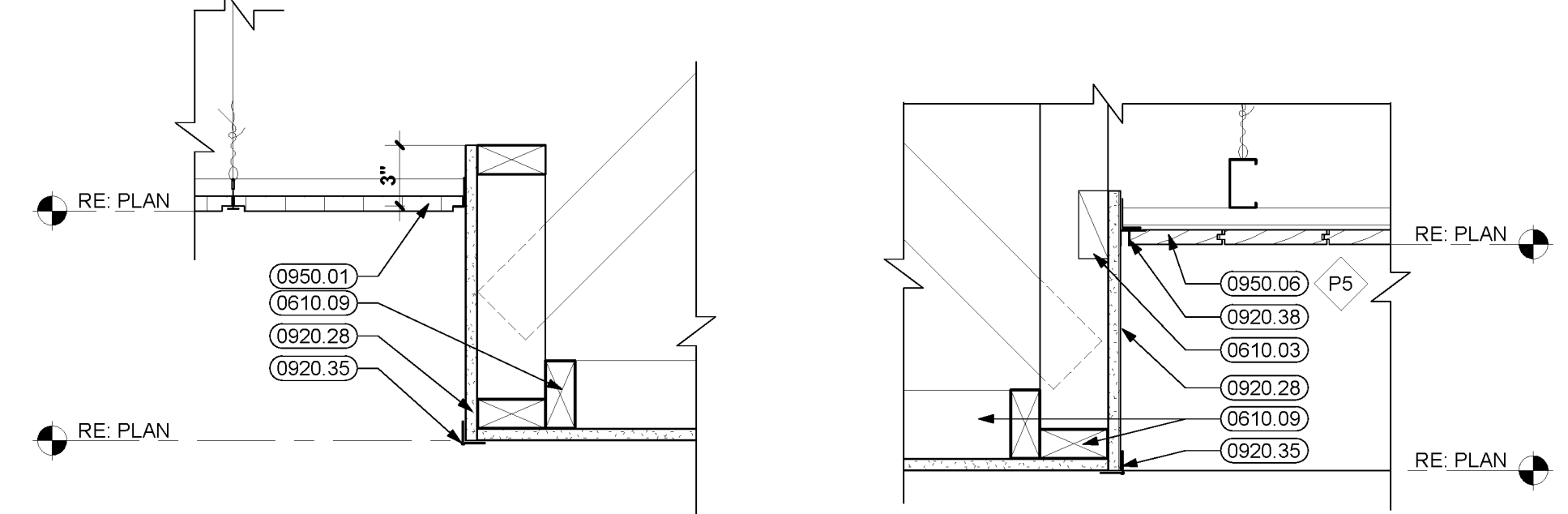


4 CEILING DETAIL
 1 1/2" = 1'-0"



5 CEILING DETAIL
 1 1/2" = 1'-0"

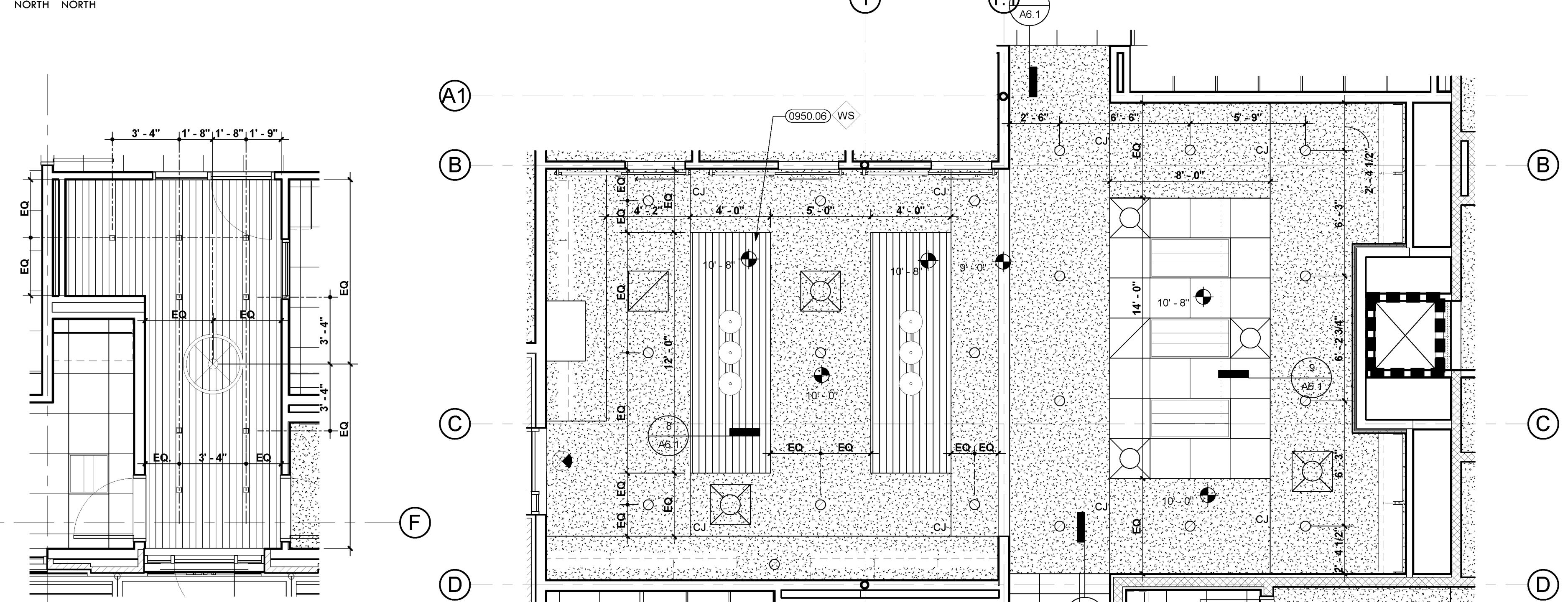
2 SECOND FLOOR REFLECTED CEILING PLAN
 1/8" = 1'-0"



9 CEILING DETAIL
 1 1/2" = 1'-0"

8 CEILING DETAIL
 1 1/2" = 1'-0"

1 FIRST FLOOR REFLECTED CEILING PLAN
 1/8" = 1'-0"

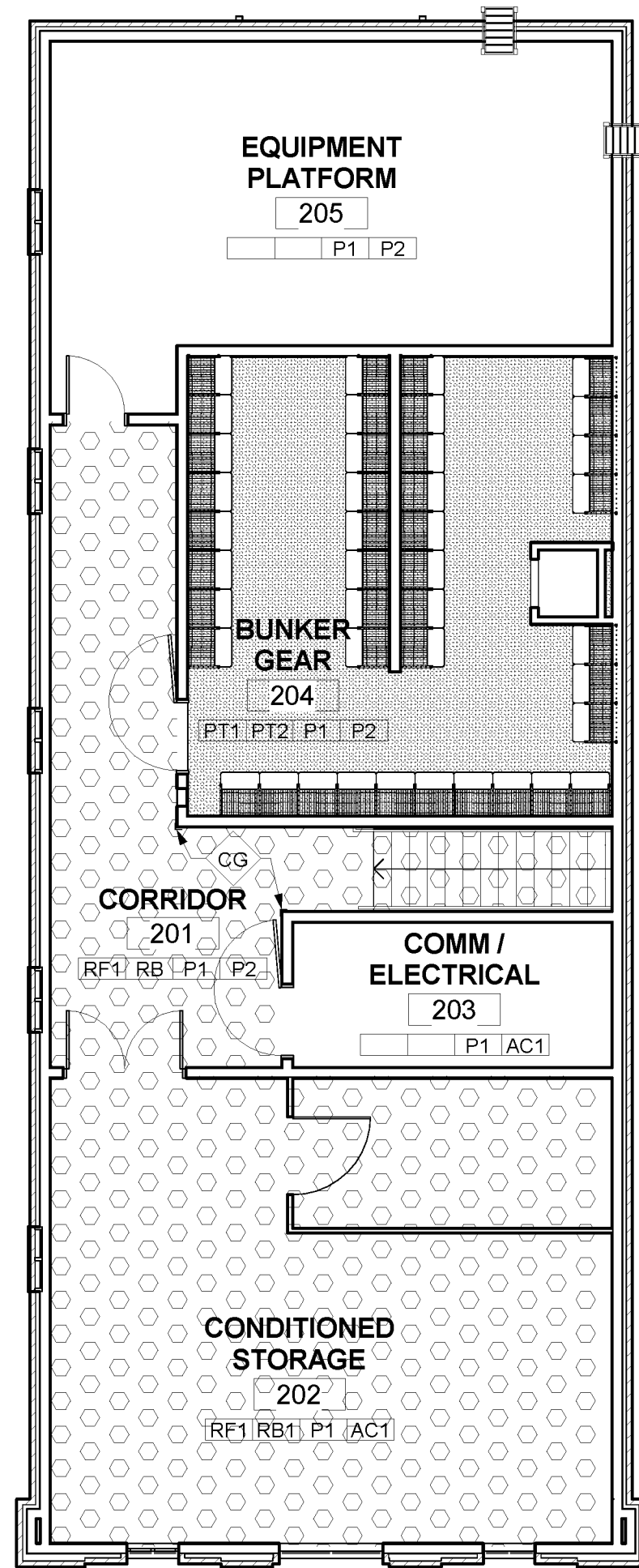


7 ENLARGED REFLECTED CEILING PLAN
 1/4" = 1'-0"

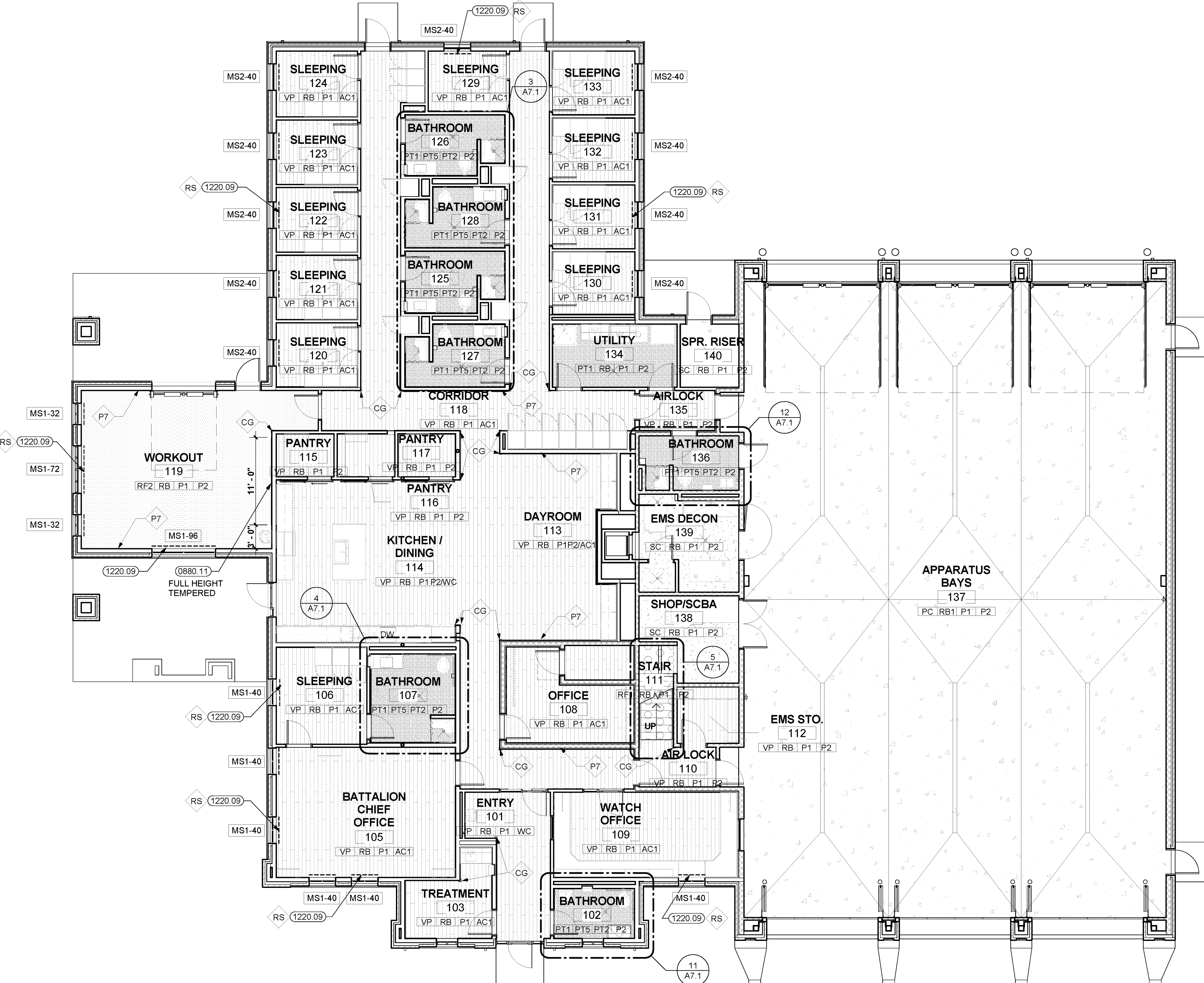


6 ENLARGED REFLECTED CEILING PLAN
 1/4" = 1'-0"





2 SECOND FLOOR FINISH PLAN
1/8" = 1'-0"



1 FIRST FLOOR FINISH PLAN
1/8" = 1'-0"

WINDOW TREATMENT LEGEND

MS1-32	MANUAL ROLLER SHADE 32" WIDTH - FABRIC - SHEER SHADE
MS1-40	MANUAL ROLLER SHADE 40" WIDTH - FABRIC - SHEER SHADE
MS1-72	MANUAL ROLLER SHADE 72" WIDTH - FABRIC - SHEER SHADE
MS1-96	MANUAL ROLLER SHADE 96" WIDTH - FABRIC - SHEER SHADE
MS2-40	MANUAL ROLLER SHADE 40" WIDTH - FABRIC - BLACKOUT SHADE

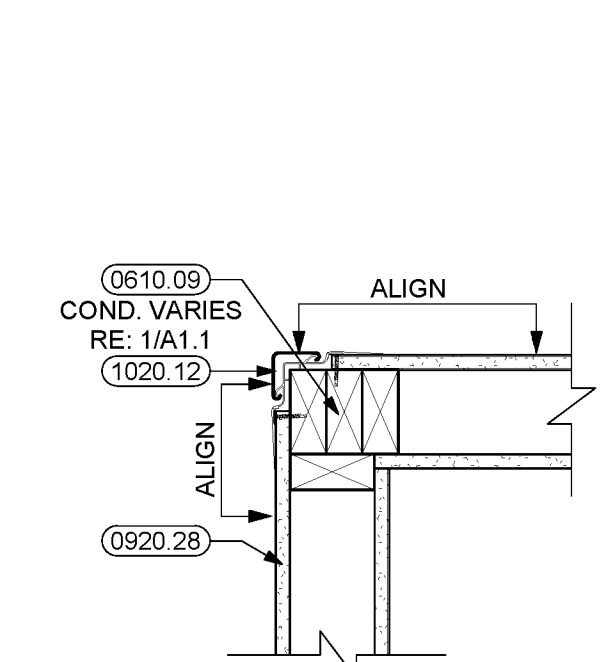
- NOTES:**
- ALL WOOD DOORS TO BE STAINED TO MATCH MILLWORK STAIN.
 - GYPSON BOARD CEILINGS ARE TO BE FINISH P2.
 - PROVIDE FLOOR LEVELING COMPOUND UNDER FINISH FLOORING AS REQUIRED.
 - LINE OF TRANSITION FROM DIAMOND POLISHED TO SEALED CONCRETE SHALL BE A STRAIGHT SAWCUT JOINT, LOCATED SO THAT SEALED CONCRETE IS NOT VISIBLE BELOW CLOSED DOOR FROM THE DIAMOND POLISHED CONCRETE SIDE OF DOOR, TYP.
 - PROVIDE CONTROL JOINTS AT CONCRETE SLAB AS REQUIRED AND AT LOCATIONS SHOWN ON FINISH PLAN.
 - PROVIDE EPOXY PAINT AT ALL INTERIOR PAINTED CMU.
 - PROVIDE EPOXY PAINT AT ALL INTERIOR UNCONDITIONED/SEMI-CONDITIONED PAINTED SURFACES.
 - 3/4" PLYWOOD IN ELEC./COMM 203, FINISH P1.

KEYNOTES

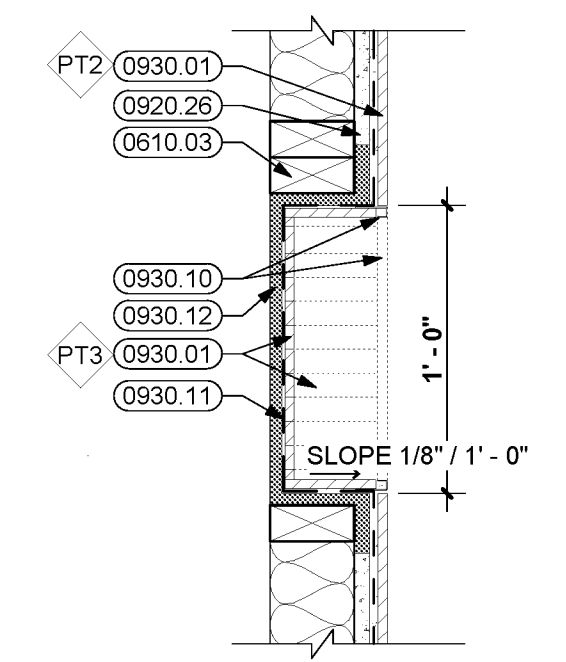
- 0420 13 6" CONCRETE MASONRY UNITS
- 0420 24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE. STRUCTURAL)
- 0440 07 STONE VENEER
- 0550 62 VERTICAL Z-CHANNELS @ 16" O.C.
- 0610 03 2X WOOD BLOCKING
- 0610 05 1/2" EXTERIOR GRADE PLYWOOD
- 0610 07 3/4" EXTERIOR GRADE PLYWOOD
- 0610 09 2 X 4 WOOD STUDS AT 16" O.C.
- 0610 16 WOOD SILL PLATE
- 0710 01 BITUMINOUS DAMPPROOFING
- 0790 01 SEALANT WITH BACKER ROD AS REQUIRED
- 0890 11 GLASS TYPE #11 (1/4" MIRROR)
- 0920 26 5/8" CEMENTITIOUS BACKER BOARD
- 0920 28 5/8" GYPSUM BOARD (TYPE X)
- 0930 01 CERAMIC TILE
- 0930 07 7/8" GRANITE THRESHOLD
- 0930 09 THICKSET TILE (SLOPE TO DRAIN)
- 0930 10 METAL TILE TRIM
- 0930 11 PORCELAIN TILE
- 0930 12 PREFABRICATED SHOWER NICHE
- 0960 01 FLOORING AS SCHEDULED
- 0960 03 METAL EDGE / TRANSITION TRIM
- 1020 12 WALL AND CORNER GUARDS
- 1220 09 MANUAL ROLLER SOLAR SHADES

FINISH LEGEND

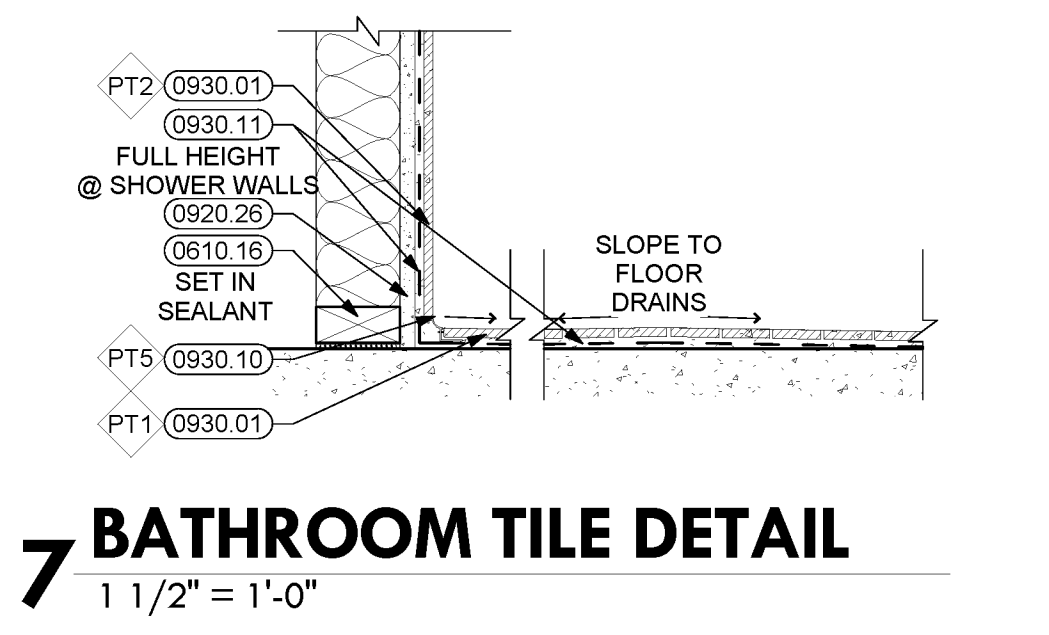
PATTERN	DESCRIPTION
AC	AC - ACOUSTICAL CEILING TILE AC1: ARMSTRONG #174 "DUNE" 24" X 24" REGULAR TILE COLOR: WHITE
PT	PT - PORCELAIN TILE PT1: PORCELAIN FLOOR TILE ARIZONA TILE RESIDE: 2" X 2" COLOR: BLACK PT2: PORCELAIN WALL TILE ARIZONA TILE RESIDE FIELD TILE 12" X 24" COLOR: ASH PT3: PORCELAIN ACCENT TILE ARIZONA TILE RESIDE FIELD TILE 1" X 12" COLOR: BLACK PT4: PORCELAIN BACKSPASH DAL TILE MODERN DIMENSIONS 2" X 8" COLOR: ARCTIC WHITE, GLOSS & MATTE PT5: COVE PROFILES SCHLUTER DILEX - ANK COLOR: SATIN ANNOXIDIZED ALUM. 10 MM (3/8") PT6: EDGE PROFILE SCHLUTER QUADEC COLOR: SATIN ANNOXIDIZED ALUM. 10 MM (3/8") PT7: PORCELAIN OUTDOOR COUNTER ARIZONA TILE RESIDE FIELD TILE 24" X 48" COLOR: ASH RE: DETAIL X-A4.2
M	M - MISC. METALS M1: PAINT EXPOSED STRUCTURAL STEEL AND HOLLOW METAL DOORS AND FRAMES SW 7020 "BLACK FOX"
PC	PC: DIAMOND POLISHED CONCRETE RE. SPECIFICATION SECTION 033680
P	P - PAINT P1: WALL KM188, "NEVADA PEAK" SEMI-GLOSS P2: CEILING KM5784, "EMILY ANN TAN EGG-SHELL P3: WALL ACCENT KM5812, "WINTER SOLSTICE" SEMI-GLOSS P4: INTERIOR HM DOORS & FRAMES KM4904, "BALSAMIC REDUCTION" P5: MILLWORK STAIN SW3114, "WARM CHESTNUT" P6: EXTERIOR DOORS & FRAMES RAL 3002, "CARMINE RED" P7: LEVEL 4 DRYWALL FINISH @ WALL MURAL LOCATIONS
PL	PL - PLASTIC LAMINATE PL1: PLASTIC LAMINATE COUNTERTOP WILSONART COLOR: EVENING TIGRIS
Q	Q - SOLID SURFACE QUARTZ QUARTZ COUNTERTOP LG SURFACES VIATERA COLOR: WHITE SOLACE
RB	RB: RESILIENT BASE FLEXCO #078, "UMBER"
RF1	RF1 - RUBBER STAIR/STRINGER/BASE FLEXCO 3.96MM, 48" TREAD #078, "UMBER"
RF2	RF2 - RUBBER FLOORING RUBBER FLOOR TILE ECORE COMMERCIAL ECSURFACE ECOPT 8.2MM, 48" X 48" TILE COLOR: ACTION 1213
SC	SC: SEALED CONCRETE BASF LAPIDOLITH
CG	CG - CORNER GUARDS (RE: 9/A4.2) CG: FULL HEIGHT CORNER GUARDS CS ACROVYN SFS-20N(RN) 410 "BRUSHED SILVER"
TS	TS - TRANSITION STRIP TS1: METAL TRANSITION STRIP SCHLUTER, RENUU BRUSHED STAINLESS STEEL
VP	VP: VINYL PLANK KARNDIAN, ART SELECT, RL03 "AUTUMN OAK"
WC	WC: WOOD CEILING T&G LINEAR WOOD CEILING SYSTEM STAIN TO MATCH MILLWORK (P5)
RS	RS: MANUAL ROLLER SHADES



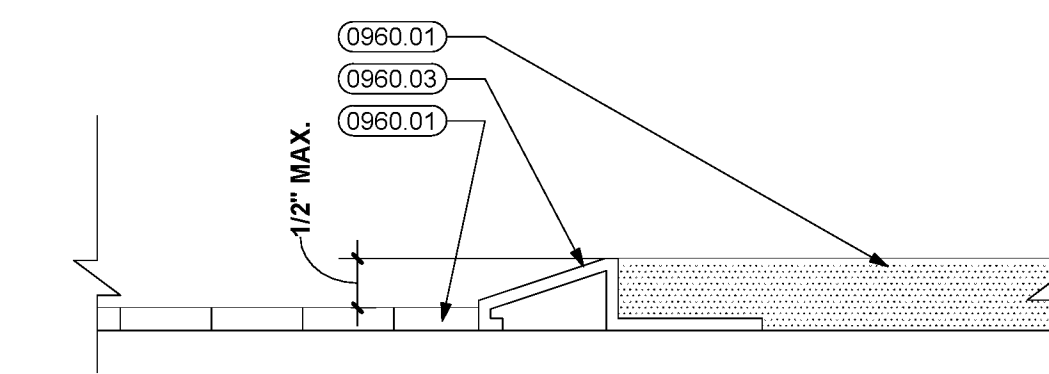
10 CORNER GUARD
1 1/2" = 1'-0"



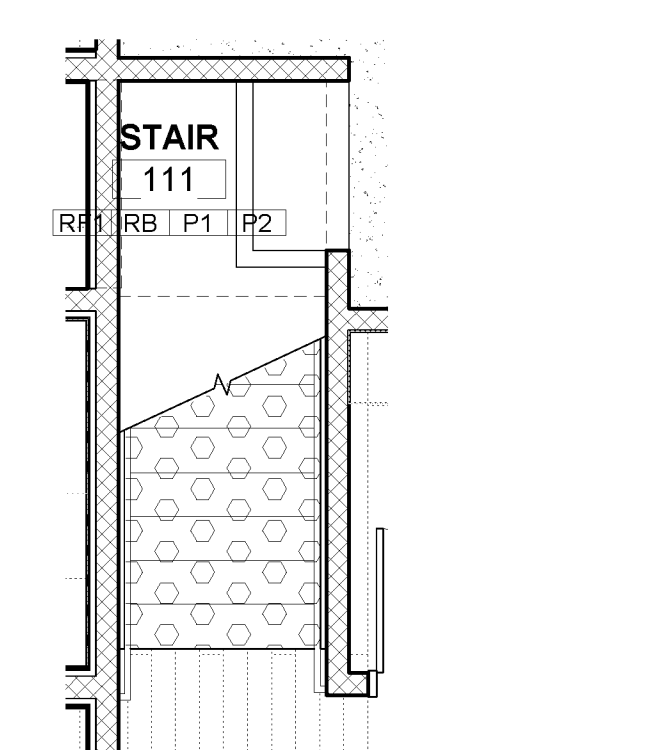
9 SHOWER NICHE
1 1/2" = 1'-0"



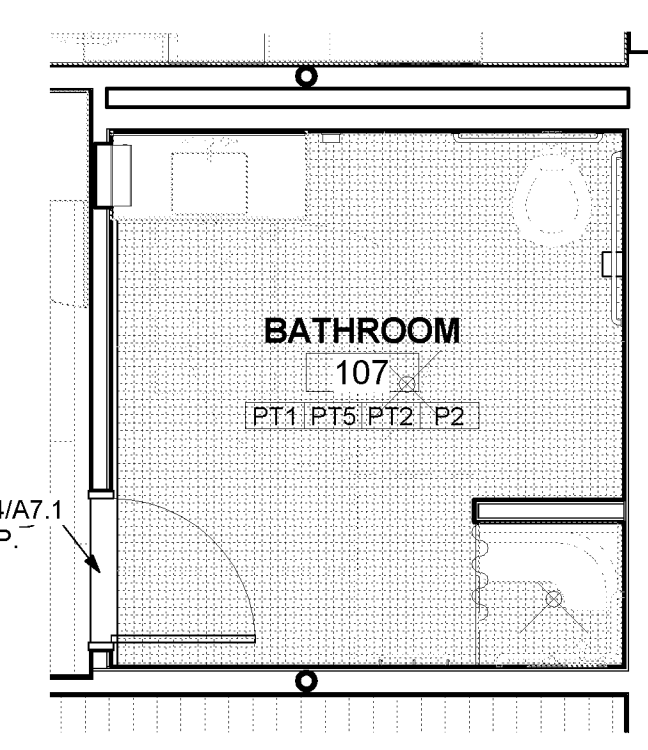
7 BATHROOM TILE DETAIL
1 1/2" = 1'-0"



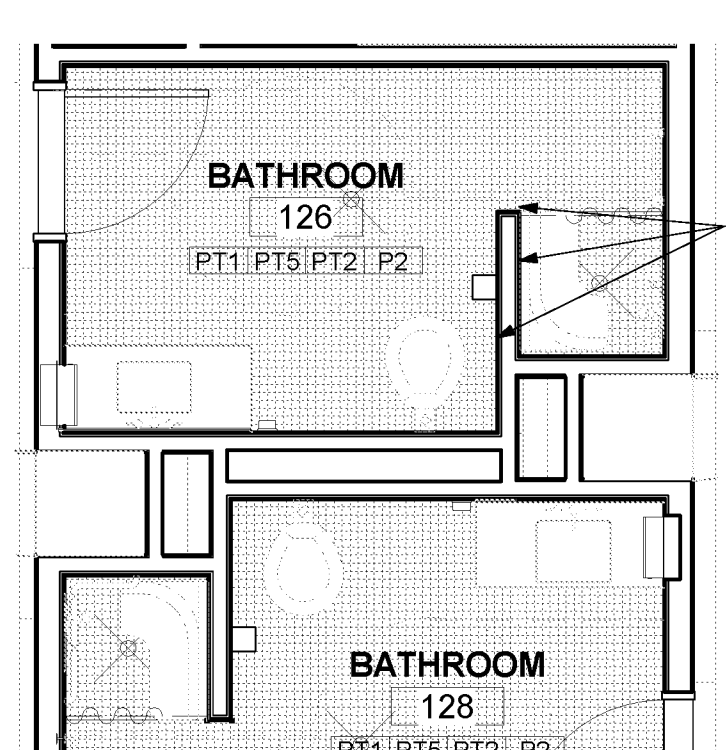
8 LVT/RF TRANSITION
NOT TO SCALE



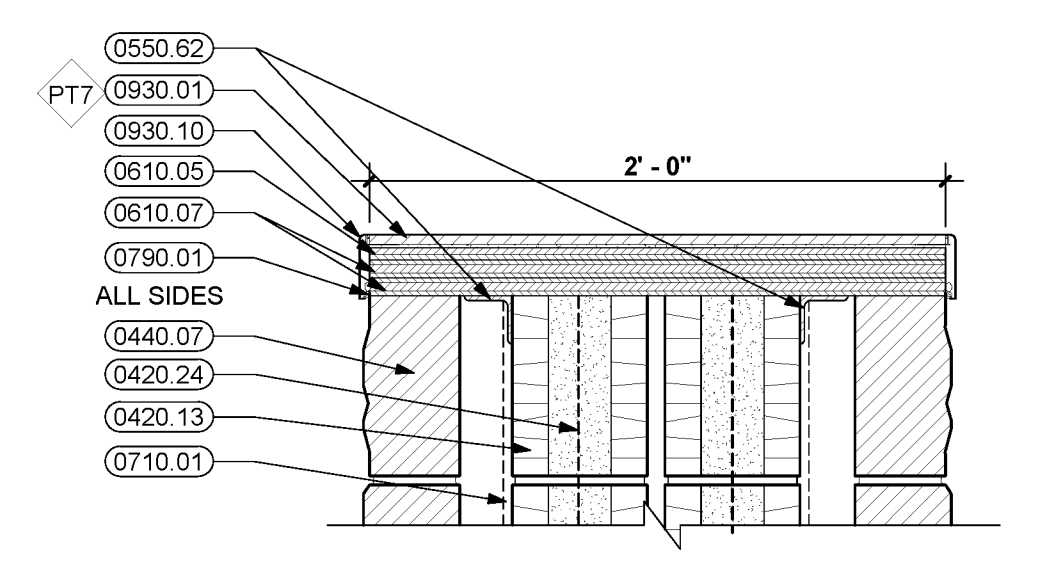
5 ENLARGED FINISH PLAN
1/4" = 1'-0"



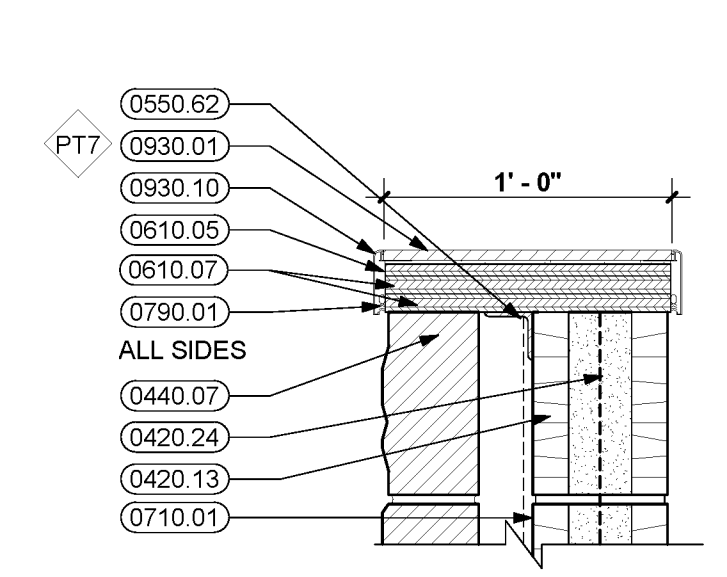
4 ENLARGED FINISH PLAN
1/4" = 1'-0"



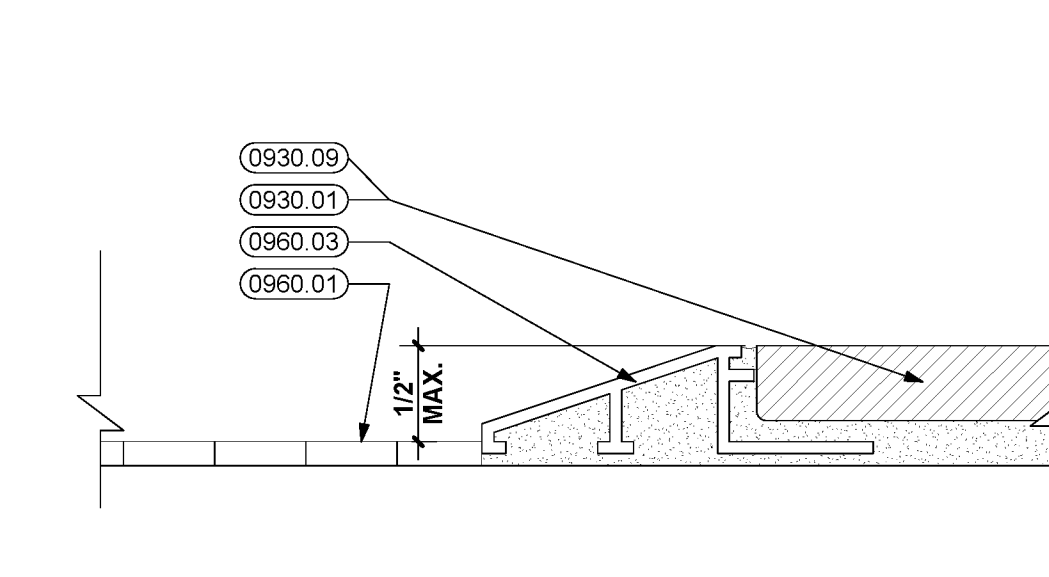
3 ENLARGED FINISH PLAN
1/4" = 1'-0"



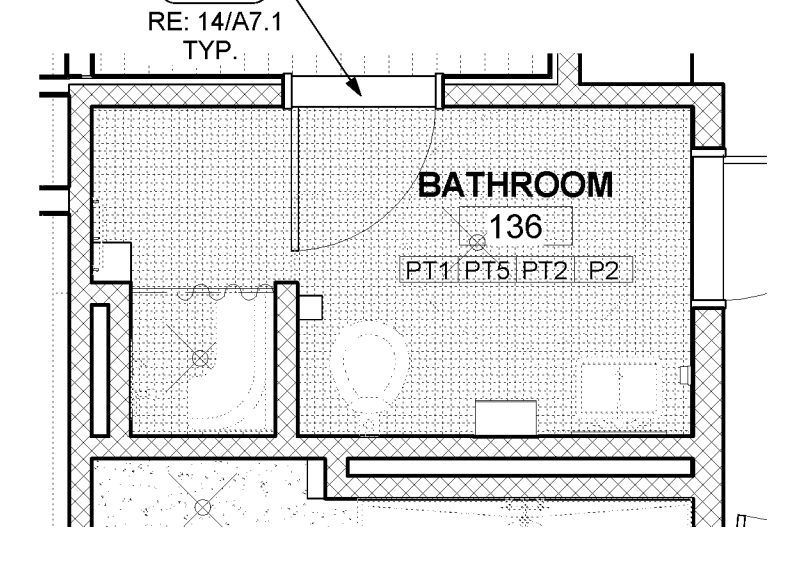
15 COUNTERTOP DETAIL END
1 1/2" = 1'-0"



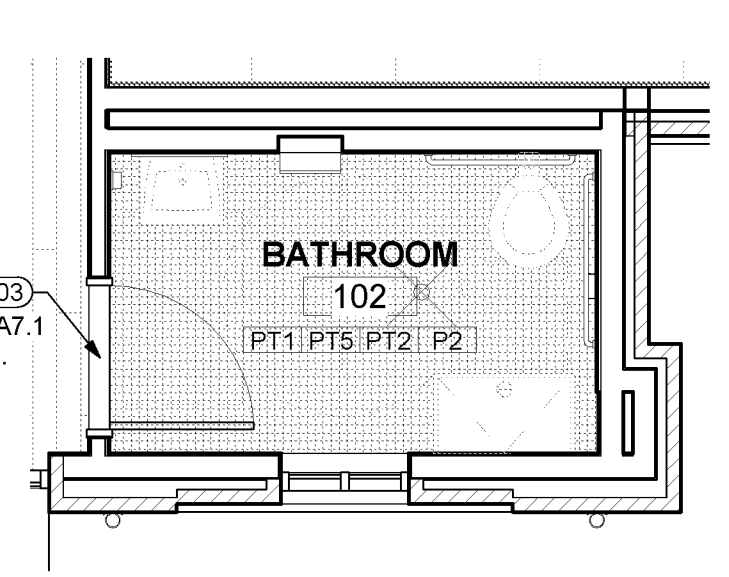
14 COUNTERTOP DETAIL
1 1/2" = 1'-0"



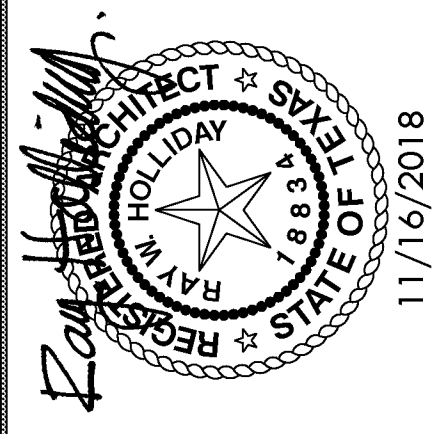
13 LVT/TILE TRANSITION
NOT TO SCALE



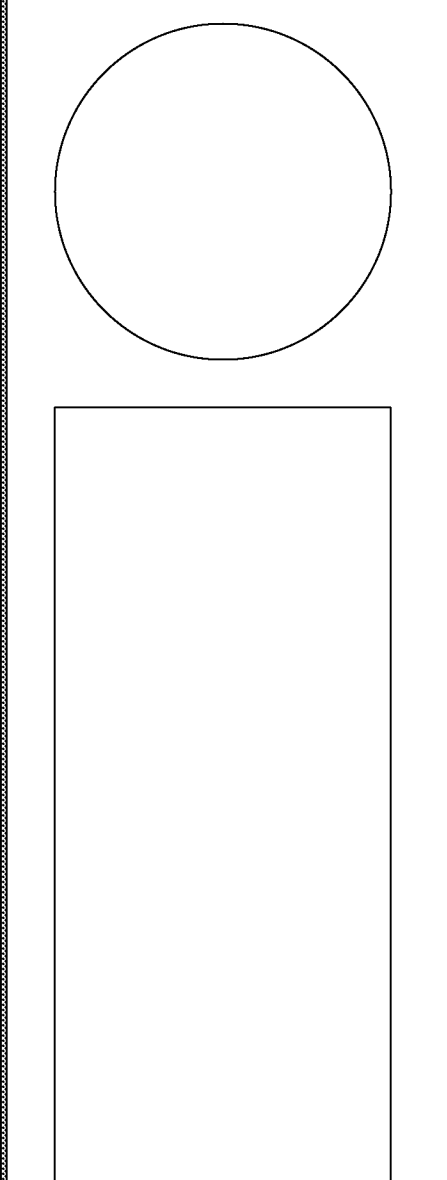
12 ENLARGED FINISH PLAN
1/4" = 1'-0"



11 ENLARGED FINISH PLAN
1/4" = 1'-0"



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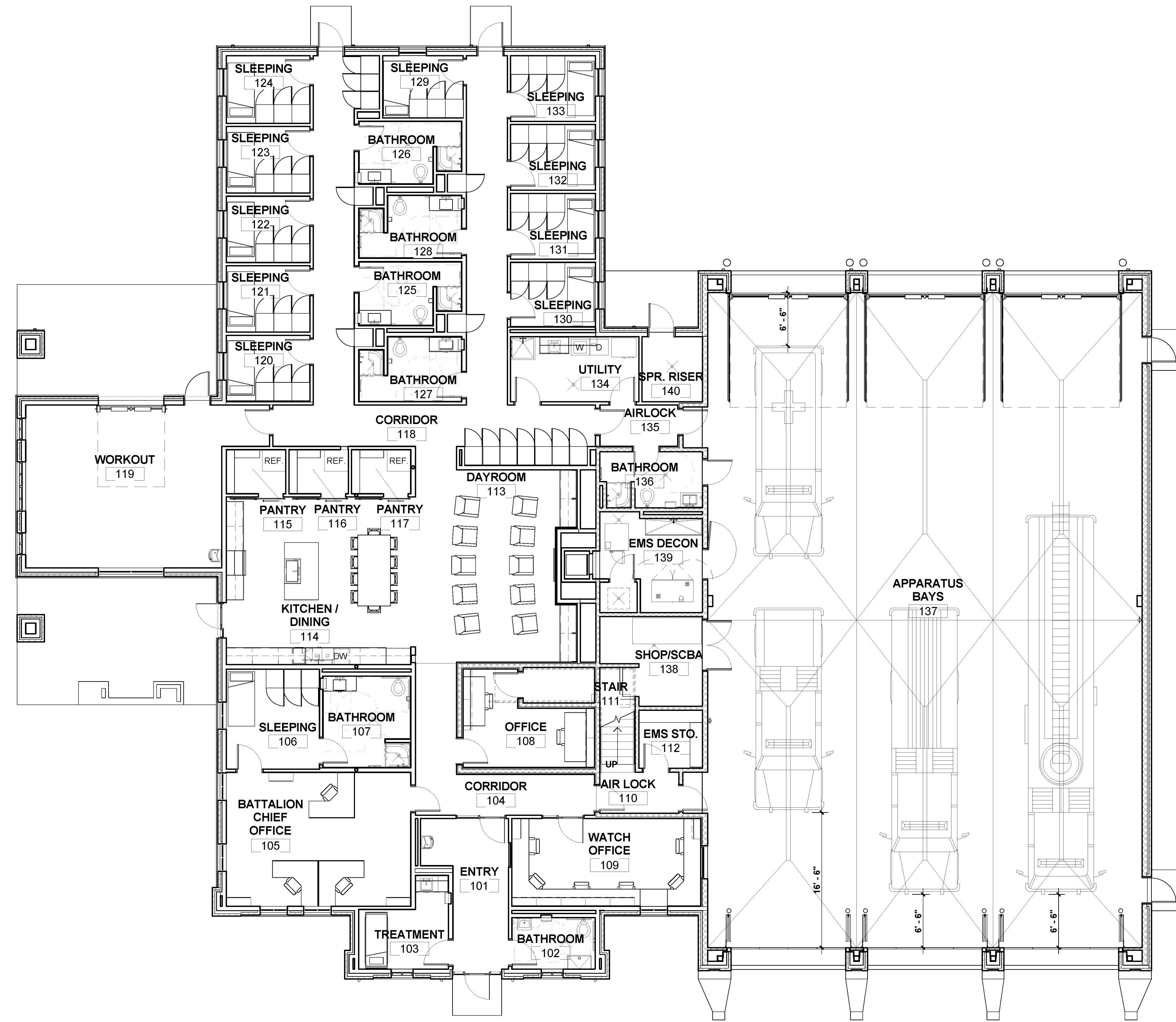
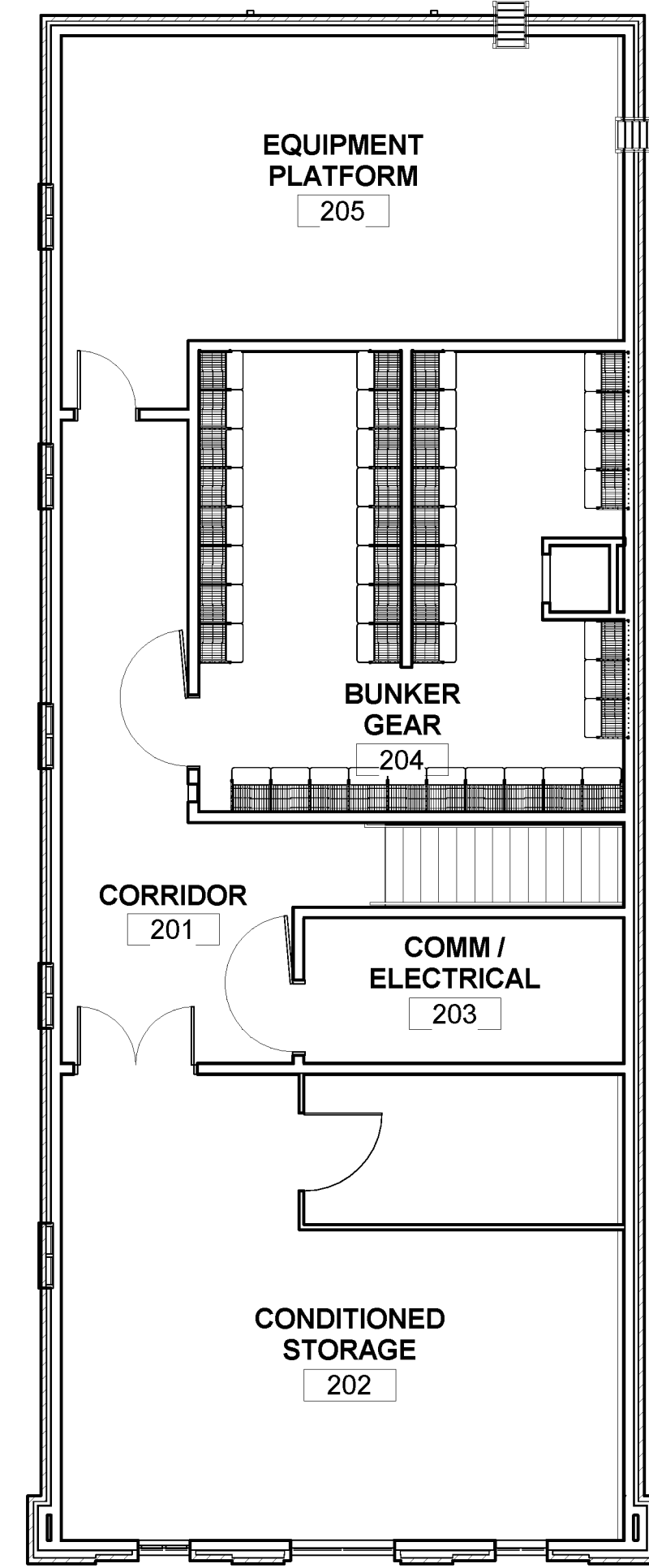


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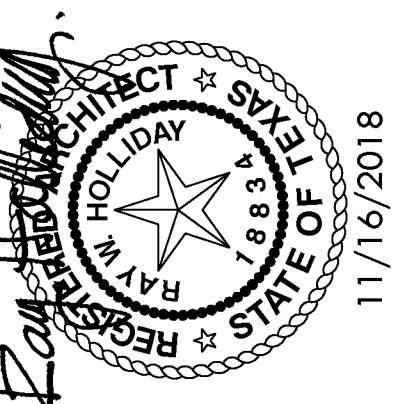
A7.1
FINISH PLANS



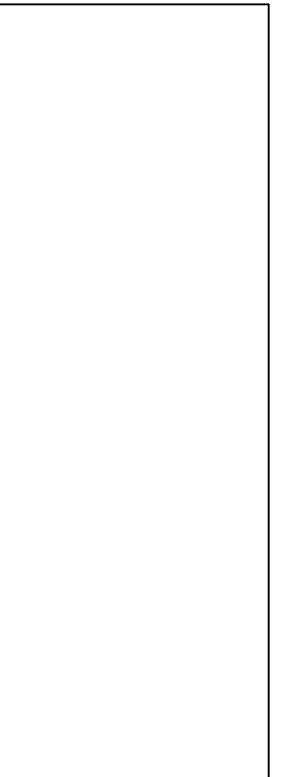
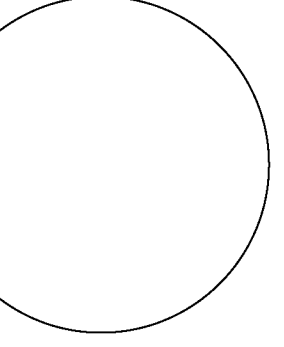
KEYNOTES

FURNITURE LEGEND

PATTERN	DESCRIPTION
	TASK CHAIR
	39" X 89" TWIN BED
	CREDENZA 72" X 24"
	6' DESK TABLE
	BUNKER GEAR LOCKER
	RECLINER
	TELEVISION
	DINING TABLE 48" X 104"
	DINING CHAIR



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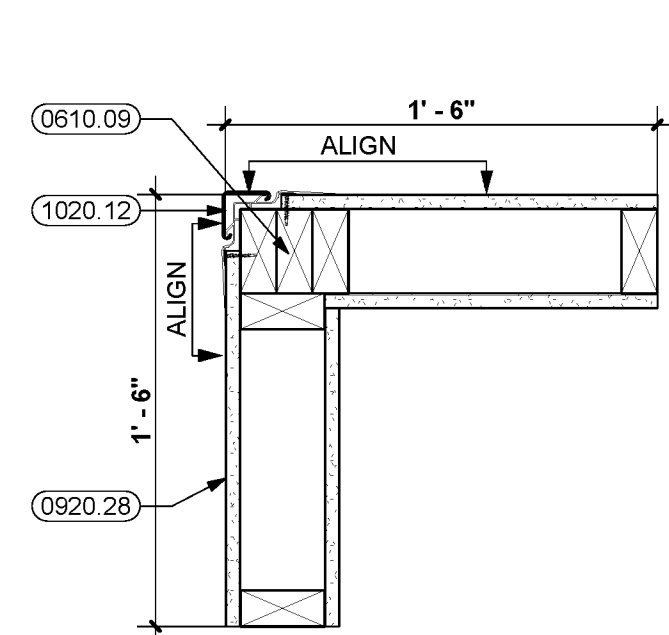


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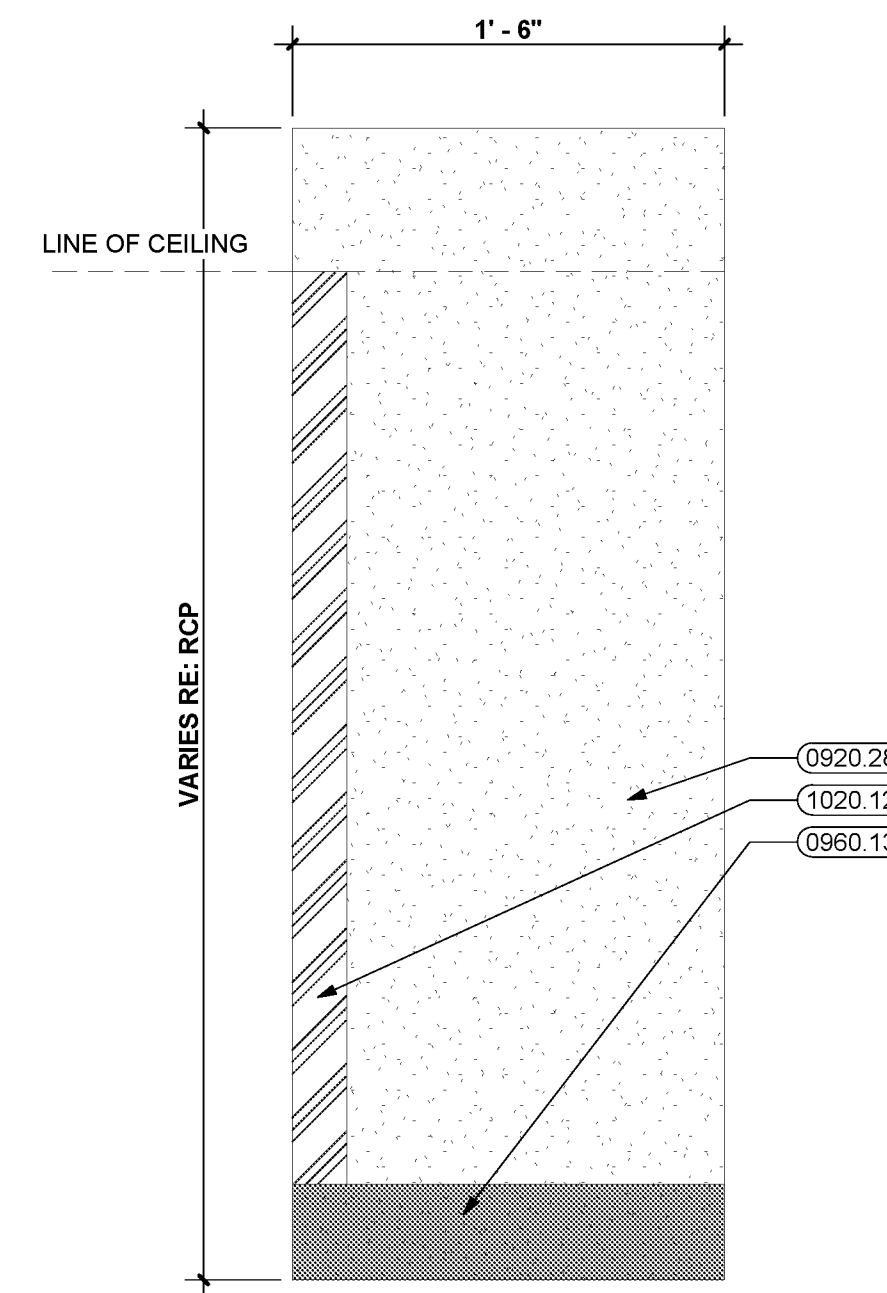
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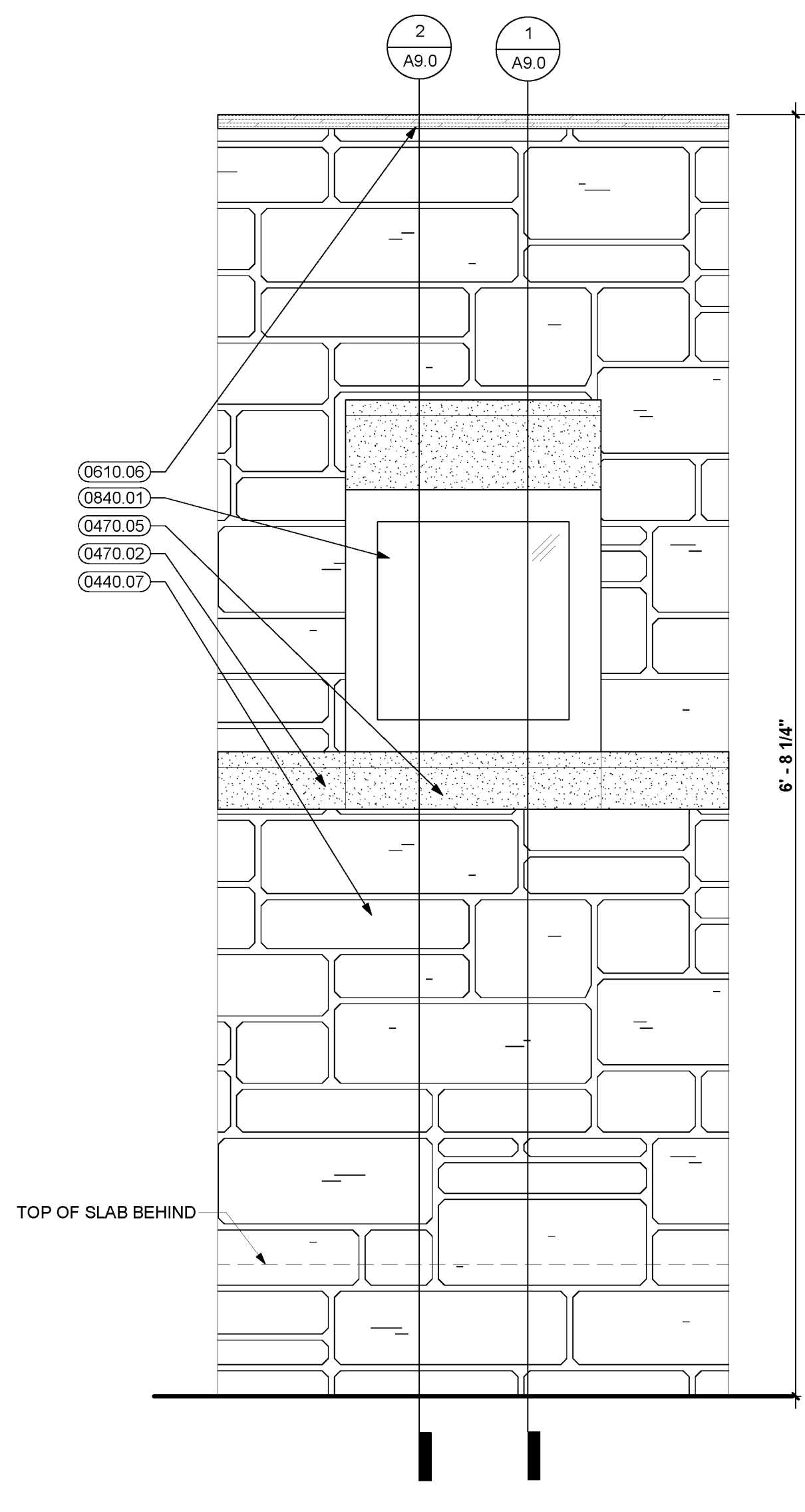
A8.1
FURNITURE PLANS



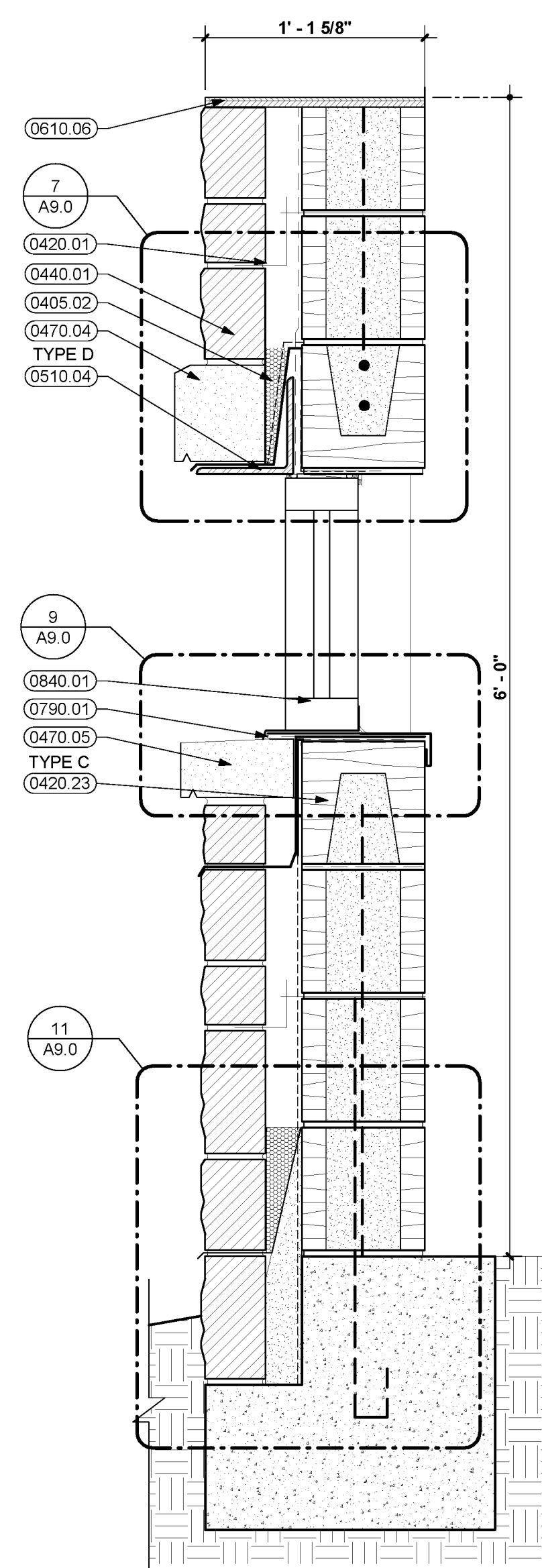
5 CORNER GUARD MOCK UP PLAN
1 1/2" = 1'-0"



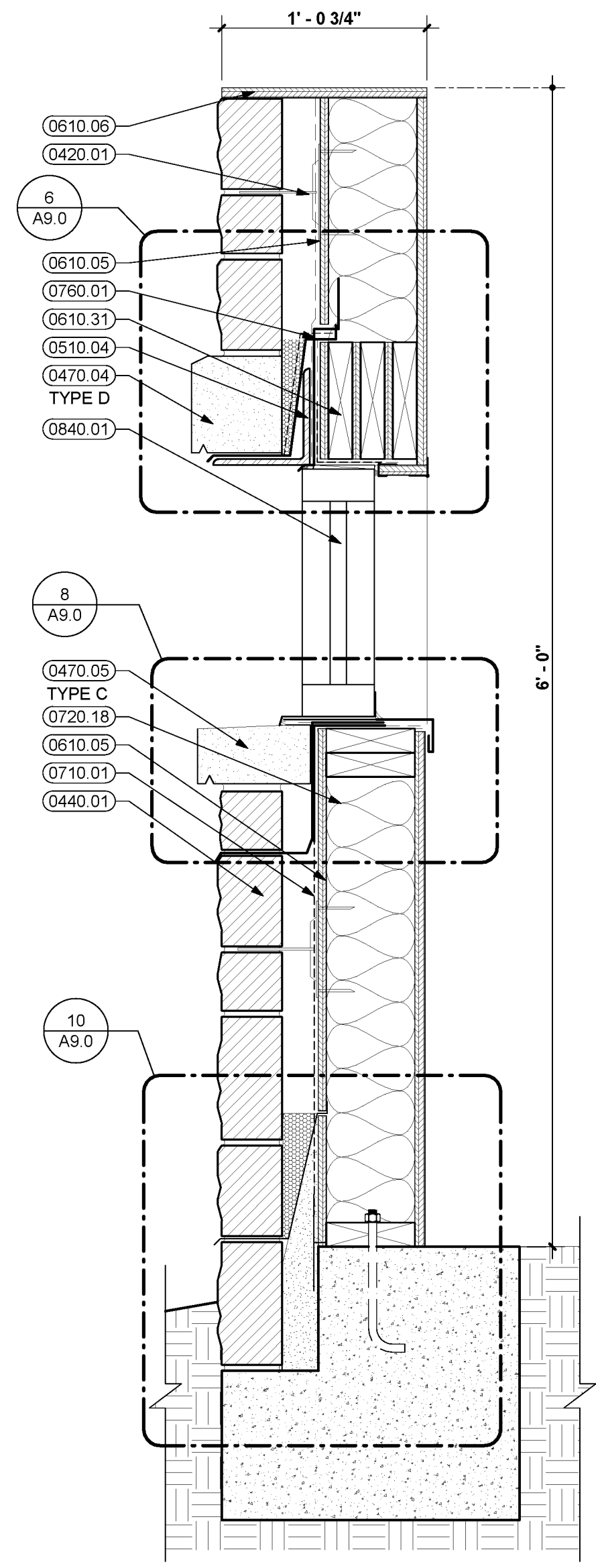
4 CORNER GUARD MOCK UP ELEV.
1 1/2" = 1'-0"



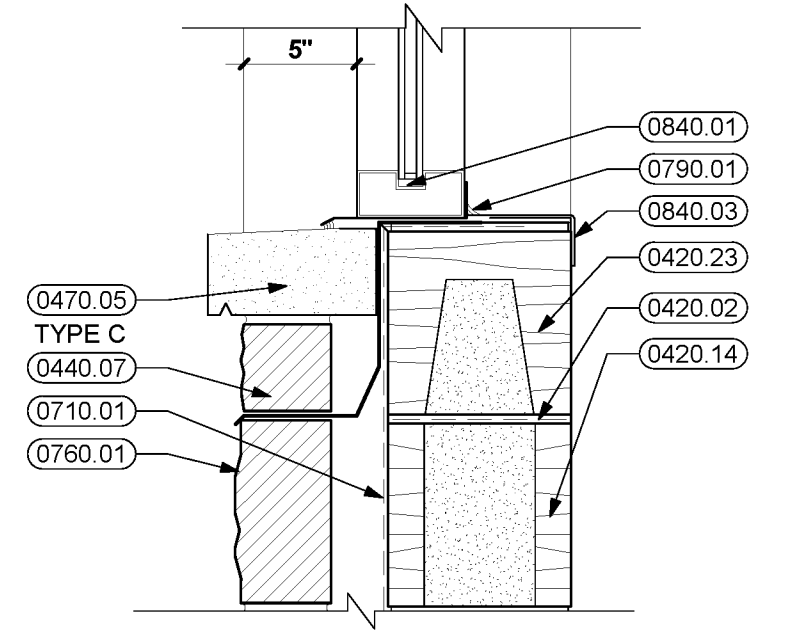
3 MOCK UP WALL
1 1/2" = 1'-0"



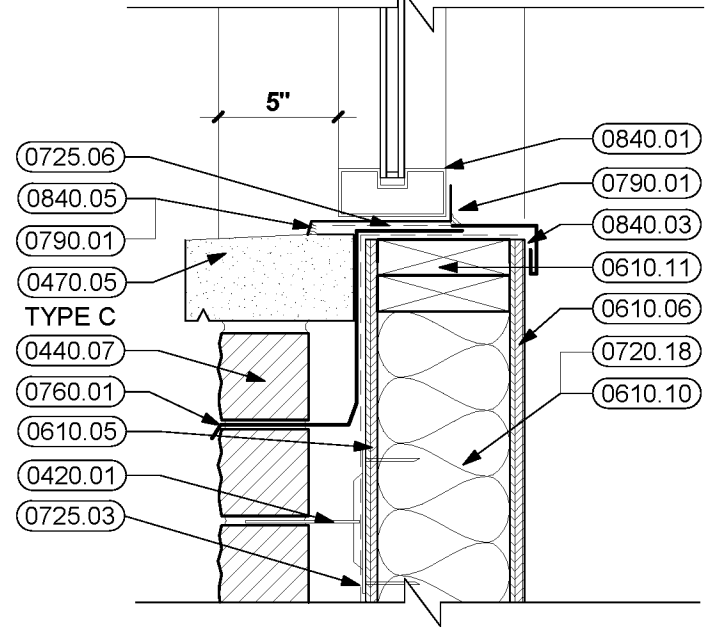
2 SECTION DETAIL
1 1/2" = 1'-0"



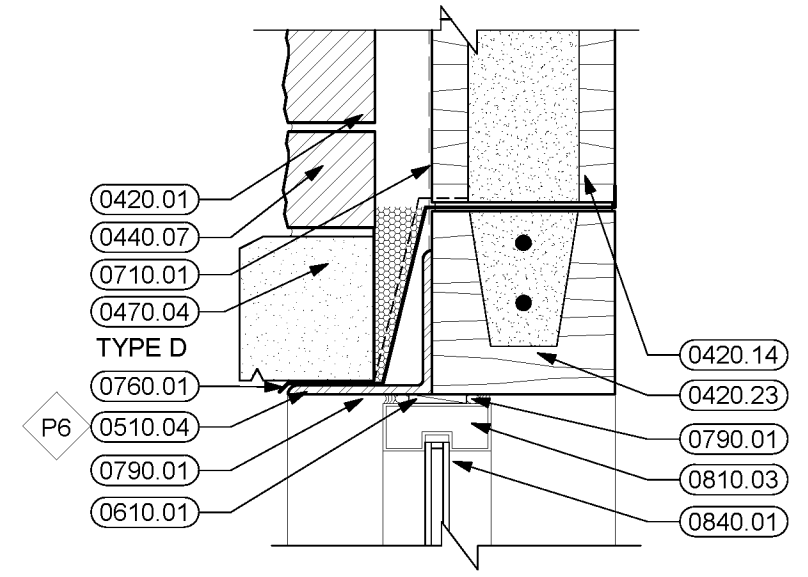
1 SECTION DETAIL
1 1/2" = 1'-0"



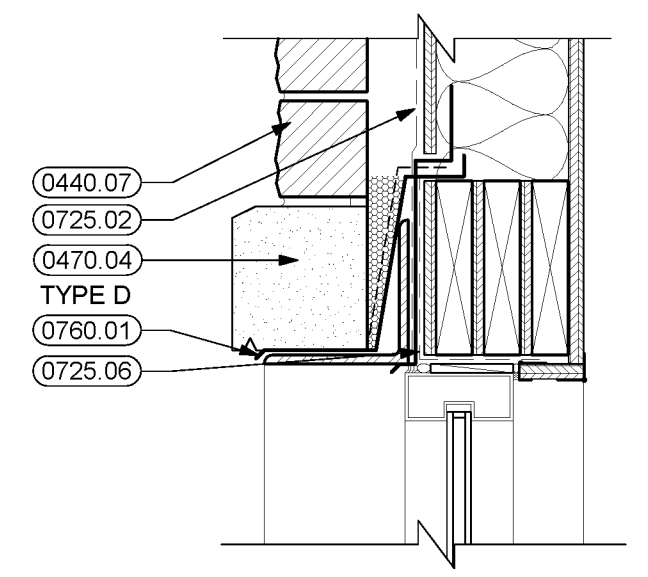
9 WINDOW SILL
1 1/2" = 1'-0"



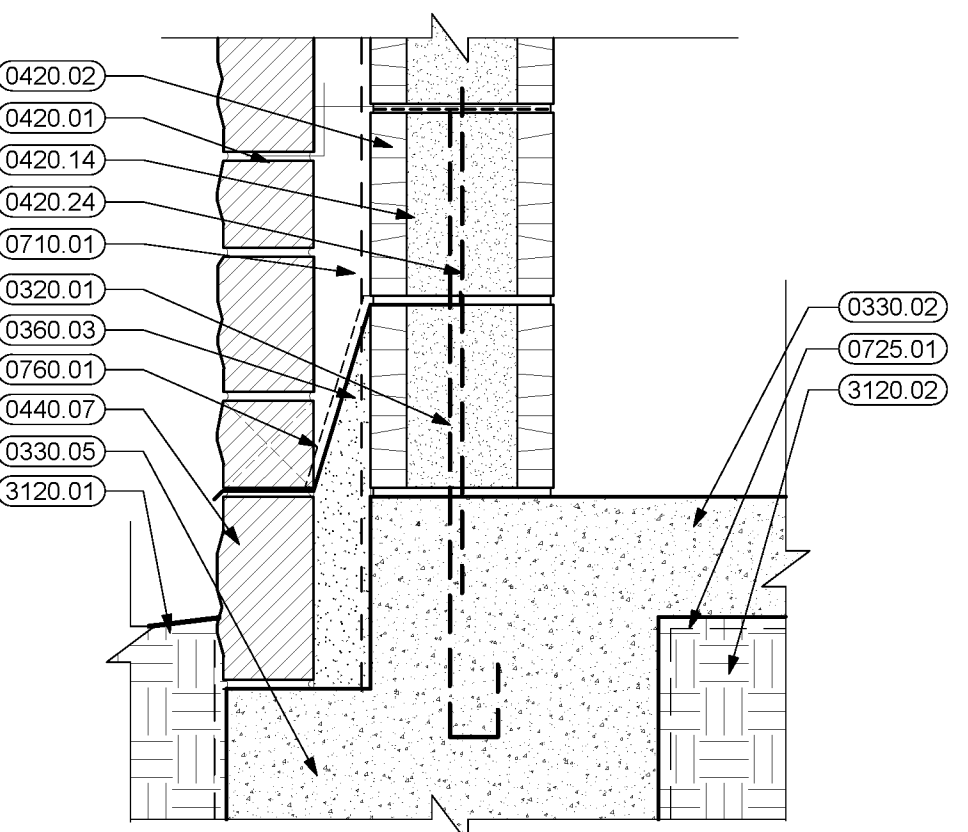
8 WINDOW SILL
1 1/2" = 1'-0"



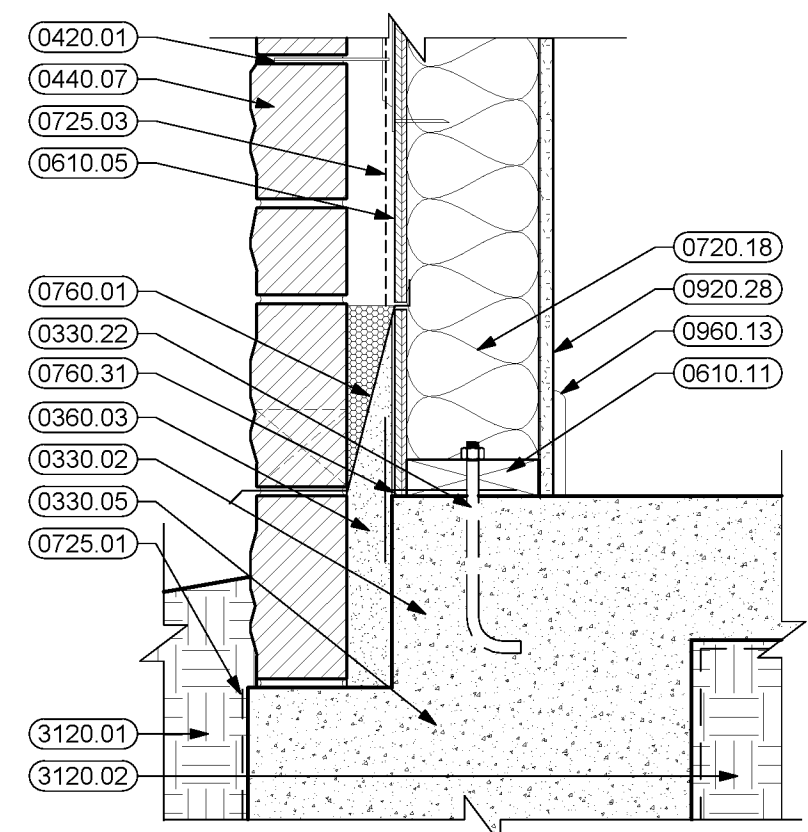
7 WINDOW HEAD
1 1/2" = 1'-0"



6 WINDOW HEAD
1 1/2" = 1'-0"

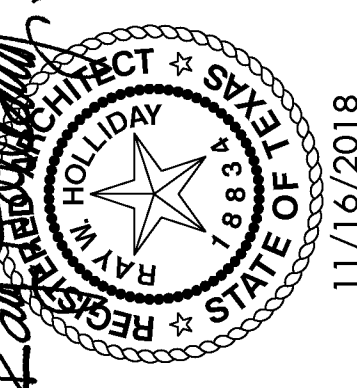


11 SECTION DETAIL
1 1/2" = 1'-0"

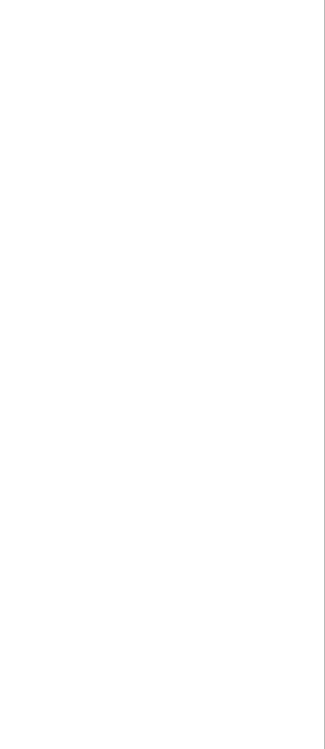
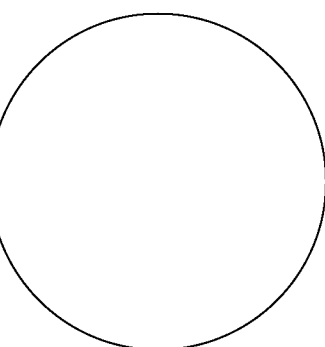


10 SECTION DETAIL
1 1/2" = 1'-0"

- KEYNOTES**
- 0320.01 DOWEL INTO CONCRETE SLAB
 - 0330.02 CONCRETE SLAB (RE. STRUCTURAL)
 - 0330.05 CONCRETE GRADE BEAM (RE. STRUCTURAL)
 - 0330.22 ANCHOR BOLT
 - 0360.03 FILL WITH GROUT
 - 0405.02 MORTAR NET
 - 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
 - 0420.02 HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
 - 0420.14 8" CONCRETE MASONRY UNITS
 - 0420.23 CONCRETE MASONRY BOND BEAM
 - 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE. STRUCTURAL)
 - 0440.01 DRY-STACK STONE VENEER
 - 0440.07 STONE VENEER
 - 0470.02 CAST STONE STRING COURSE
 - 0470.04 CAST STONE LINTEL WITH DRIP
 - 0470.05 CAST STONE SILL WITH DRIP
 - 0510.04 STEEL ANGLE (RE. STRUCTURAL)
 - 0610.01 SHIM AS REQUIRED
 - 0610.05 1/2" EXTERIOR GRADE PLYWOOD
 - 0610.06 5/8" EXTERIOR GRADE PLYWOOD
 - 0610.09 2 X 4 WOOD STUDS AT 16" O.C.
 - 0610.10 2 X 8 WOOD STUDS AT 16" O.C.
 - 0610.11 2 X 6 WOOD FRAMING
 - 0610.31 2X WOOD HEADER (RE. STRUCTURAL)
 - 0710.01 BITUMINOUS DAMPPROOFING
 - 0720.18 5 1/2" BATT INSULATION
 - 0725.01 UNDERSLAB VAPOR BARRIER
 - 0725.02 SELF-ADHERING MODIFIED BITUMINOUS SHEET AIR BARRIER
 - 0725.03 PLASTIC FILM AIR BARRIER
 - 0725.06 SELF-ADHERING FLEXIBLE SURROUND FLASHING
 - 0760.01 THROUGH-WALL FLASHING (WITH WEEPS AT 2" O.C.) AND MORTAR NET
 - 0760.31 SILL SEALER
 - 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
 - 0810.03 HOLLOW METAL STOP
 - 0840.01 ALUMINUM STOREFRONT
 - 0840.03 160 ALUMINUM SILL WITH HEMMED AND CLOSED ENDS
 - 0840.05 CONTINUOUS ALUMINUM SILL FLASHING
 - 0920.28 5/8" GYPSUM BOARD (TYPE X)
 - 0960.13 4" RESILIENT BASE
 - 1020.12 WALL AND CORNER GUARDS
 - 3120.01 GRADE
 - 3120.02 COMPACTED SELECT FILL



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BRW PROJECT NUMBER 218044.00

**CITY OF GEORGETOWN
FIRE STATION No. 7**
2711 EAST UNIVERSITY AVENUE
GEORGETOWN, TX 78626

NO.	REVISION	DATE

A9.0
MOCK UP WALL

11/16/2018

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
○	QB	6	BEGA Converted by LUMINA V 2006/2017 H.R.	77743	LED 6.2W	LED 6.2W	1	77743 (1).ies	726	0.9	10
□	QP1	2	Lithonia Lighting	DSX1 LED P4 30K BLC MVOLT	DSX1 LED P4 30K BLC MVOLT	LED	1	DSX1_LED_P4_30K_BLC_MVOLT.ies	11028	0.95	125
□	QP2	1	Lithonia Lighting	DSX1 LED P4 30K TFFM MVOLT	DSX1 LED P4 30K TFFM MVOLT	LED	1	DSX1_LED_P4_30K_TFFM_MVOLT.ies	13448	0.95	125
□	QP3	1	Lithonia Lighting	DSX1 LED P4 30K TFFM MVOLT HS	DSX1 LED P4 30K TFFM MVOLT HS	LED	1	DSX1_LED_P4_30K_TFFM_MVOLT_HS.ies	10500	0.95	125
□	QP4	3	Lithonia Lighting	DSX1 LED P4 30K T4M MVOLT	DSX1 LED P4 30K T4M MVOLT	LED	1	DSX1_LED_P4_30K_T4M_MVOLT.ies	13164	0.95	125

KEY: ISOTEMPLATE FOR BOTH QB AND QP4 LUMINAIRES

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Main Entry Drive		1.6 fc	8.3 fc	0.1 fc	83.0:1	16.0:1
North East Drive		0.5 fc	4.8 fc	0.0 fc	N/A	N/A
North Side Pkg. Dumpster Building		1.5 fc	4.8 fc	0.0 fc	N/A	N/A
Property Line and Beyond		0.0 fc	0.6 fc	0.0 fc	N/A	N/A
South Parking Area		2.4 fc	6.8 fc	0.3 fc	22.7:1	8.0:1
West Side Parking		1.5 fc	4.8 fc	0.2 fc	24.0:1	7.5:1

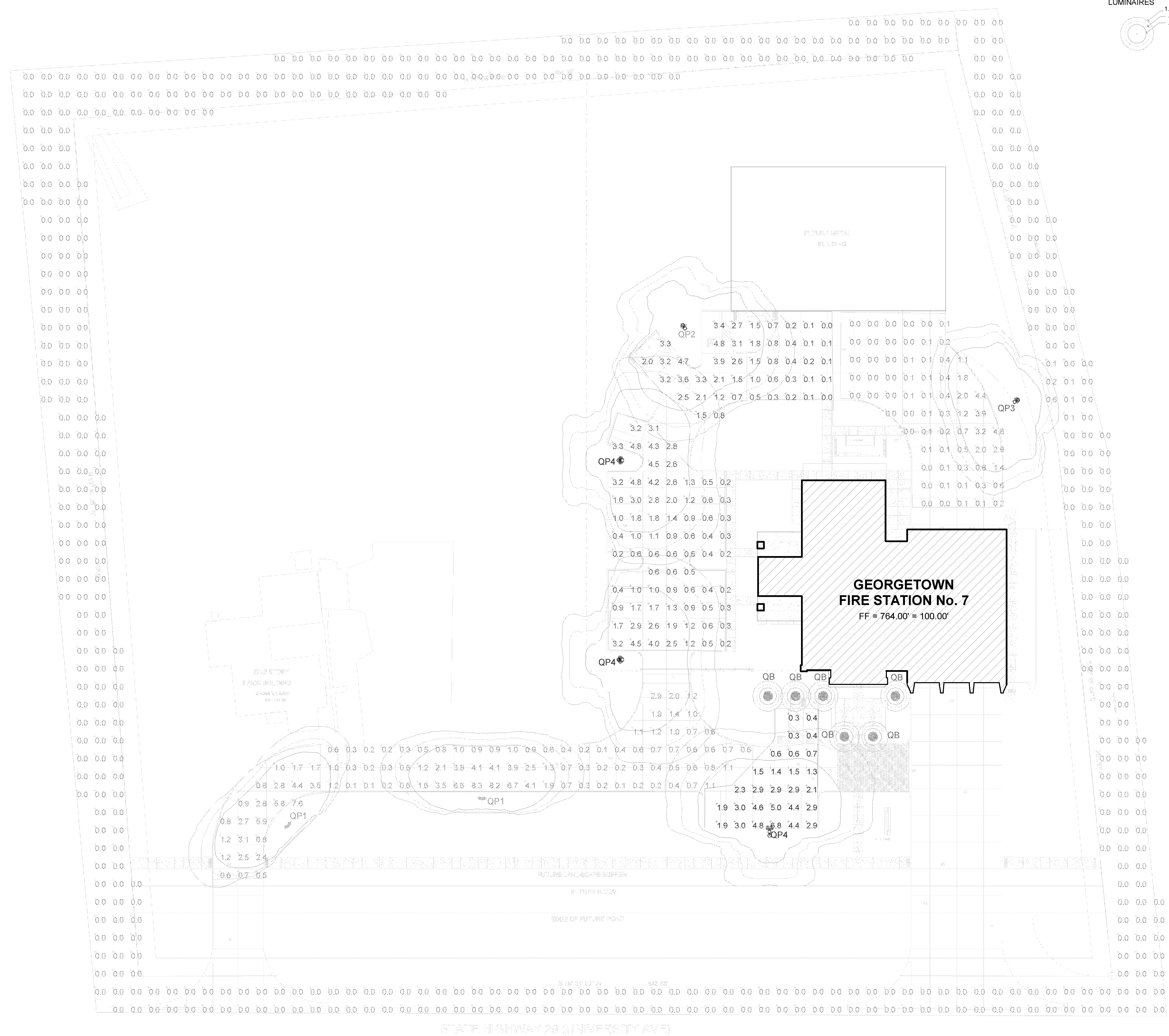
No.	Label	X	Y	Z	MH	Orientation	Tilt	X	Y	Z
2	QB	408.90	133.20	2.50	2.50	0.00	0.00	408.90	133.20	0.00
3	QB	365.70	155.80	2.50	2.50	0.00	0.00	365.70	155.80	0.00
4	QB	381.10	155.80	2.50	2.50	0.00	0.00	381.10	155.80	0.00
5	QB	421.40	155.80	2.50	2.50	0.00	0.00	421.40	155.80	0.00
10	QB	392.90	133.20	2.50	2.50	0.00	0.00	392.90	133.20	0.00
11	QB	350.30	155.80	2.50	2.50	0.00	0.00	350.30	155.80	0.00
3	QP1	83.35	83.32	15.00	15.00	314.95	0.00	83.38	83.32	0.00
4	QP1	190.94	98.04	15.00	15.00	0.43	0.00	190.94	98.04	0.00
1	QP2	302.55	363.09	15.00	15.00	148.78	0.00	302.55	363.09	0.00
2	QP3	490.05	321.19	15.00	15.00	253.30	0.00	490.05	321.19	0.00
1	QP4	267.15	287.25	15.00	15.00	90.00	0.00	267.15	287.25	0.00
2	QP4	266.95	176.25	15.00	15.00	90.00	0.00	266.95	176.25	0.00
4	QP4	351.25	81.35	15.00	15.00	0.00	0.00	351.25	81.35	0.00

CONTACT INFORMATION:

LAURA PIVONKA
 BROWN REYNOLDS WATFORD ARCHITECTS
 175 CENTURY SQUARE DRIVE
 BUILDING B - SUITE 350
 COLLEGE STATION, TX 77840
 PHONE: 979.694.1791

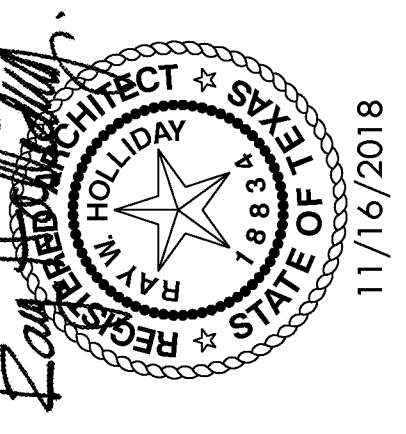
NOTES:

- ALL LIGHTING FIXTURES SHALL BE DESIGNED SO THAT THE LIGHT SOURCE IS COMPLETELY CONCEALED, FULLY SHIELDED WITHIN OPAQUE HOUSING AND NOT VISIBLE FROM ANY STREET RIGHT-OF-WAY. THE CONE OF LIGHT SHALL NOT CROSS ANY ADJACENT PROPERTY LINE. THE ILLUMINATION SHALL NOT EXCEED 2-FOOT CANDLES AT A HEIGHT OF THREE (3) FEET AT THE PROPERTY LINE. ONLY INCANDESCENT, FLOURESCENT, COLOR-CORRECTED, HIGH-PRESSURE, SODIUM OR METAL HALIDE MAY BE USED.
- ROOF LIGHTING MAY NOT INCLUDE NAKED BULBS OR TUBING OR RUN ALONG THE HIGHEST PEAK OF THE ROOFLINE. ROOF LIGHTING THAT QUALIFIES AS SIGNAGE PER THE UDC IS PROHIBITED.

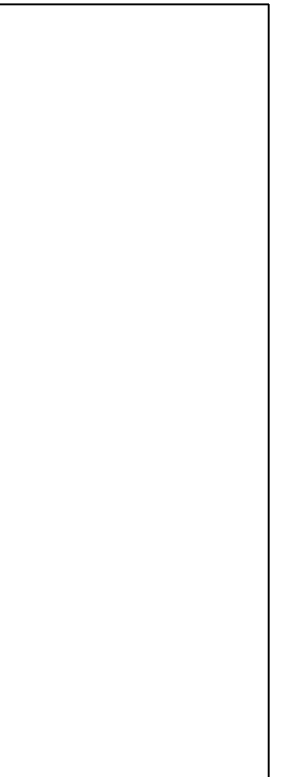
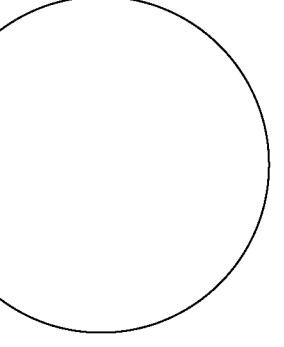


1 PHOTOMETRIC SITE LIGHTING PLAN

1" = 30'-0"



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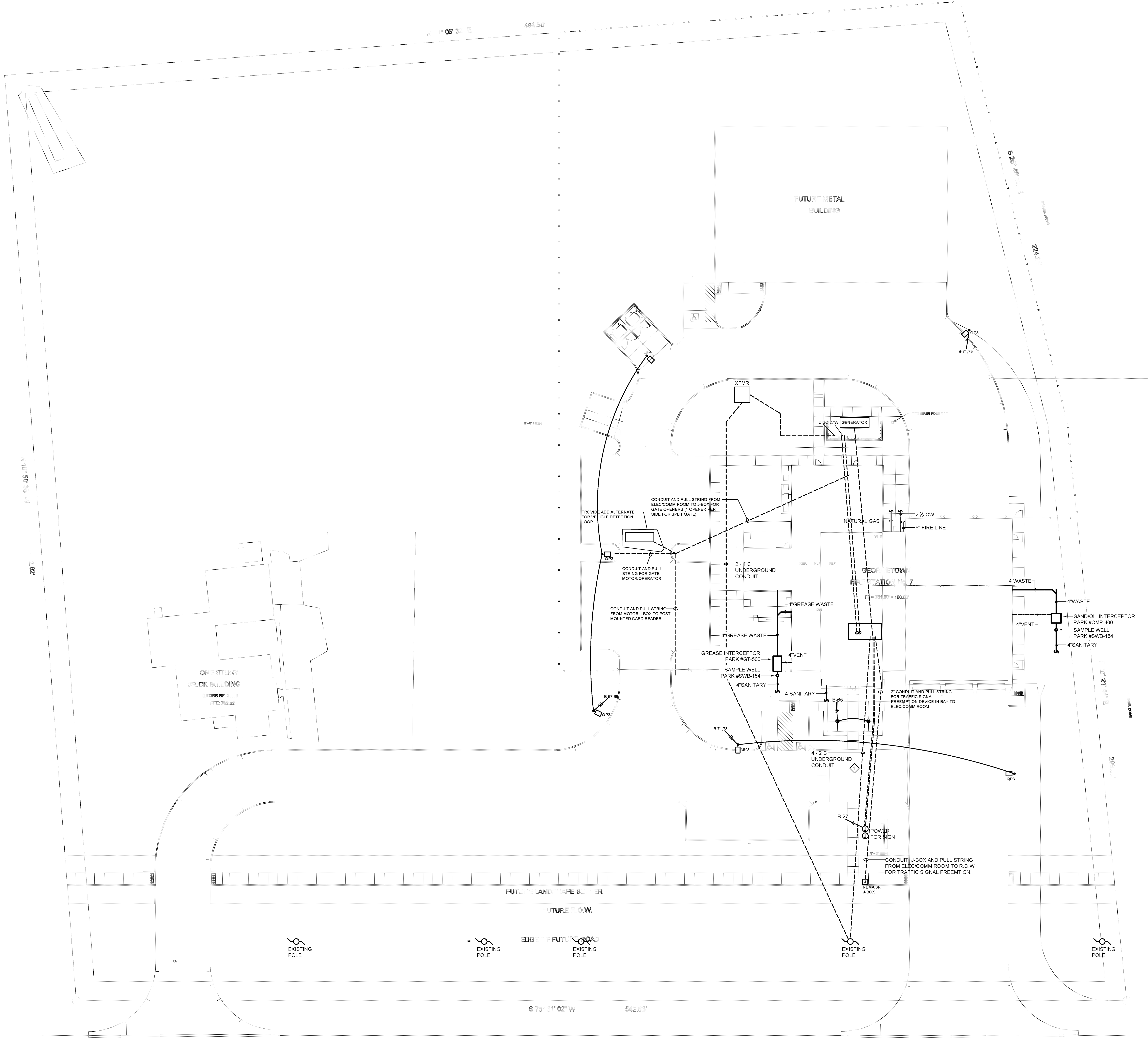
PHOTOMETRIC SITE LIGHTING PLAN

GENERAL SITE NOTES:

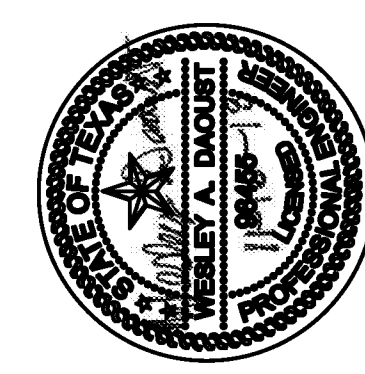
- A. COORDINATE ALL WORK OTHER TRADES.
- B. COORDINATE INSTALLATION REQUIREMENTS, EXACT LOCATIONS AND CONDUIT TRADE SIZING AND ROUTING WITH UTILITIES PRIOR TO BEGINNING ANY WORK.
- C. WIRE ALL EMERGENCY EXTERIOR EGRESS FIXTURES THROUGH BUILDING LIGHTING CONTROLS.
- D. LUMINAIRES SHALL BE FURNISHED AND INSTALLED WITH LAMPS, BALLAST(S), AND MOUNTING HARDWARE. ELECTRICAL CONTRACTOR SHALL SUBMIT FIXTURE CUT SHEETS TO CLIENT AND ARCHITECT FOR THEIR FINAL APPROVAL PRIOR TO ORDERING OF THE LUMINAIRES.
- E. ELECTRICAL CONTRACTOR SHALL COORDINATE LIGHTING FIXTURE QUANTITIES, MOUNTING REQUIREMENTS, FINISHES, FIXTURE AVAILABILITY AND LEAD TIME FOR DELIVERY TO SITE.
- F. FLUORESCENT AND LED LUMINAIRES THAT CONTAIN BALLAST(S) AND/OR LED DRIVERS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS PER NEC ARTICLE 410.130(G) REQUIREMENTS. DISCONNECTING MEANS IS NOT REQUIRED FOR EMERGENCY ILLUMINATION REQUIRED IN 700.16.
- G. CONTRACTOR SHALL COORDINATE EXACT DEVICE AND EQUIPMENT LOCATIONS WITH CLIENT /ARCHITECT, EQUIPMENT SUBCONTRACTOR OR UTILITY CONSULTANT PRIOR TO BEGINNING ANY WORK.
- H. RECEPTACLE OUTLETS AND SWITCHES SHALL BE LABELED WITH DESIGNATED PANEL AND CIRCUIT NUMBER ON THE COVER PLATE.
- I. ALL 125-VOLT, SINGLE PHASE, 15- AND 20-AMPERE RECEPTACLES INSTALLED IN RESTROOMS, KITCHEN/FOOD PREP AREAS, OUTDOOR, WITHIN SIX FEET OF THE OUTSIDE EDGE OF A SINK, OR IN GARAGES, SERVICE BAYS, AND SIMILAR AREAS WHERE ELECTRICAL HAND TOOLS OR PORTABLE LIGHTING EQUIPMENT ARE TO BE USED SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL PER NATIONAL ELECTRICAL CODE (NEC) ARTICLE 210.8. GFCI DEVICE SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.
- J. ELECTRICAL CONTRACTOR SHALL MAINTAIN DEDICATED ELECTRICAL SPACE IN FRONT AND ABOVE ALL ELECTRICAL EQUIPMENT REQUIRING SERVICING WHILE ENERGIZED. THIS INCLUDES CONTROL PANELS AND ELECTRICAL DISCONNECTS FOR HVAC EQUIPMENT ON LOCATED ON ROOFTOPS AND ABOVE OR BELOW CEILING. PENETRATIONS SUCH AS ROOF JACKS FOR ELECTRICAL POWER, LOW VOLTAGE CONTROL POWER, REFRIGERANT LINES, VENT PIPES, ETC., AND INCLUDING GAS LINES, DUCTWORK, ROOF DRAINS, SCREENING WALLS AND OTHER EQUIPMENT OF ANY TYPE, ARE NOT TO INTRUDE INTO DEDICATED ELECTRICAL SPACE. MINIMUM SPACE IN FRONT OF ELECTRIC EQUIPMENT SHALL BE THE WIDTH OF THE EQUIPMENT OR 30 INCHES, WHICHEVER IS GREATER, 36 INCHES OUT FROM ENCLOSURE FRONT AT THE HEIGHT OF 6.5 FEET.
- K. ELECTRICAL UTILITY SERVICE SECONDARY CONDUCTORS SHALL BE BURIED AT A MINIMUM DEPTH OF 4'. COORDINATE ADDITIONAL INSTALLATION REQUIREMENTS AND ROUTING WITH ELECTRICAL UTILITY PRIOR TO BEGINNING ANY WORK.
- L. FOR PAD MOUNTED TRANSFORMERS ELECTRICAL CONTRACTOR SHALL PROVIDE (2) 6" CONDUITS, OR ELECTRICAL UTILITY STANDARD SIZING BURIED AT A MINIMUM DEPTH OF 4' AND ENCASED IN RED DYED CONCRETE COORDINATE ADDITIONAL INSTALLATION REQUIREMENTS AND ROUTING WITH ELECTRICAL UTILITY PRIOR TO BEGINNING ANY WORK.
- M. PVC CONDUITS INSTALLED UNDERGROUND SHALL BE BURIED IN ACCORDANCE WITH NEC ARTICLES 352.10(C), 300.5 AND TABLE 300.5 REQUIREMENTS FOR PARKING LOTS. MINIMUM DEPTH OF 24" TO THE TOP OF THE CONDUIT.
- N. IF RACEWAYS ARE INSTALLED EXPOSED TO DIRECT SUNLIGHT ON OR ABOVE ROOFTOPS CORRECTIONS NEED TO BE PROVIDED FOR CONDUCTOR SIZES BASED ON AMBIENT TEMPERATURE CORRECTION FACTORS. TEMPERATURE CORRECTION FACTORS SHOWN IN NEC TABLE 310.15(B)(3)(C) SHALL BE ADDED TO THE OUTDOOR TEMPERATURE TO DETERMINE THE APPLICABLE AMBIENT TEMPERATURE FOR APPLICATION OF THE CORRECTION FACTORS IN TABLE 310.15(B)(2)(A) OR TABLE 310.15(B)(2)(B).

KEYED NOTES:

- 1. 2 - 4" CONDUIT UNDERGROUND FOR TELECOMMUNICATION WIRE. COORDINATE ROUTING AND TERMINATION REQUIREMENTS WITH LOCAL UTILITIES.



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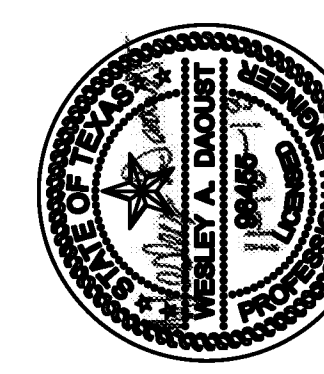


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 1815 West Branch Parkway
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BROWN REYNOLDS WATFORD ARCHITECTS, INC.
 DATE 11/16/2018
 DRAWN BY KM
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FIRE STATION No. 7
 1703 EAST STATE HIGHWAY 29
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MECHANICAL SYMBOLS AND ABBREVIATIONS

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED HERE ARE USED IN THE DRAWINGS AND MAY NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE DRAWINGS.

MECHANICAL ABBREVIATIONS

AD	ADJUSTABLE	MAX	MAXIMUM
ADJ	ADJUSTABLE	MBH	THOUSANDS OF BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MC	MECHANICAL CONTRACTOR
AL	ALUMINUM	MCA	MINIMUM CIRCUIT AMPACITY
ALT	ALTERNATE	MCC	MOTOR CONTROL CENTER
AP	ACCESS PANEL	MEP	MECHANICAL, ELECTRICAL AND PLUMBING
APD	AIR PRESSURE DROP	MER	MECHANICAL EQUIPMENT ROOM
APPROX	APPROXIMATE	MEZZ	MEZZANINE
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
AVG	AVERAGE	MIN	MINIMUM
BAS	BUILDING AUTOMATION SYSTEM	MISC	MISCELLANEOUS
BBS	BOTTOM OF BEAM	NA	NOT APPLICABLE
BOD	BOTTOM OF DUCT	NC	NORMALLY CLOSED
BOP	BOTTOM OF PIPE	NIC	NOT IN CONTRACT
BTU	BRITISH THERMAL UNITS	NO	NORMALLY OPEN
BTUH	BRITISH THERMAL UNITS PER HOUR	NPS	NOMINAL PIPE SIZE
CAV	CONSTANT AIR VOLUME	NPSH	NET POSITIVE SUCTION HEAD
CFM	CUBIC FEET PER HOUR	NR	NEAR
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
CL	CENTERLINE	OA	OUTSIDE AIR
CLG	CEILING	OC	ON CENTER
COND	CONDENSATE	OED	OPEN END DUCT
CONTR	CONTRACTOR	OLP	OVERLOAD PROTECTION
COP	COEFFICIENT OF PERFORMANCE	OV	OUTLET VELOCITY
CUP	COPPER	PC	PLUMBING CONTRACTOR
DAP	DUCT ACCESS PANEL	PCF	POUNDS PER CUBIC FOOT
DB	DRY BULB	PD	PRESSURE DROP
DDC	DIRECT DIGITAL CONTROL	PH	PHASE
DEG	DEGREES	PLBG	PLUMBING
DIA	DIAMETER	POC	POINT OF CONNECTION
DIM	DIMENSION	PPH	POUNDS PER HOUR
DN	DOWN	PRV	PRESSURE RELIEF VALVE
DWG	DRAWING	PSF	POUNDS PER SQUARE FOOT
DX	DIRECT EXPANSION	PSI	POUNDS PER SQUARE INCH
EA	EXHAUST AIR	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
EAT	ENTERING AIR TEMPERATURE	PSIG	POUNDS PER SQUARE INCH GAUGE
EC	ELECTRICAL CONTRACTOR	PVC	POLYVINYL CHLORIDE
EDR	EQUIVALENT DIRECT RADIATION	RA	RETURN AIR
EFF	EFFICIENCY	REQD	REQUIRED
ELEC	ELECTRICAL	RH	RELATIVE HUMIDITY
ELEV	ELEVATION	RH	RELATIVE HUMIDITY
EM	EMERGENCY	RPM	REVOLUTIONS PER MINUTE
ESP	EXTERNAL STATIC PRESSURE	SA	SUPPLY AIR
ETR	EXISTING TO REMAIN	SCH	SCHEDULE
EWT	ENTERING WATER TEMPERATURE	SCH	SCHEDULE
EXH	EXHAUST	SHT	SHEET
EXP	EXPANSION	SP	STATIC PRESSURE
EXIST	EXISTING	SPEC	SPECIFICATION
F	FAHRENHEIT	SQ	SQUARE
FC	FORWARD CURVED	SS	STAINLESS STEEL
FLA	FULL LOAD AMPS	STD	STANDARD
FLR	FLOOR	STRUCT	STRUCTURAL
FM	FACTORY MUTUAL	T&P	TEMPERATURE AND PRESSURE
FPD	FLUID PRESSURE DROP	TA	TRANSFER AIR
FPI	FINS PER INCH	TBR	TO BE REMOVED
FFM	FEET PER MINUTE	TC	TEMPERATURE CONTROL
FFS	FEET PER SECOND	TEMP	TEMPERATURE
F&T	FLOAT AND THERMOSTATIC	TOB	TOP OF BEAM
FT	FEET	TOD	TOP OF DUCT
FTG	FOOTING	TOP	TOP OF PIPE
GA	GAUGE	TOS	TOP OF SLAB
GAL	GALLON	TSP	TOTAL STATIC PRESSURE
GALV	GALVANIZED	TSTAT	THERMOSTAT
GBD	GRAVITY BACKDRAFT DAMPER	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UC	UNDERCUT DOOR 1" (BY GENERAL CONTRACTOR)
GPM	GALLONS PER MINUTE	UNO	UNLESS OTHERWISE NOTED
GPH	GALLONS PER HOUR	V	VOLTS
HP	HORSEPOWER	VA	VALVE
ID	INSIDE DIAMETER	VAV	VARIABLE AIR VOLUME
IE	INVERT ELEVATION	VEL	VELOCITY
IN	INCHES	VP	VELOCITY PRESSURE
LAT	LEAVING AIR TEMPERATURE	VTR	VENT THRU ROOF
LBHR	POUNDS PER HOUR	W	WITH
LF	LINEAR FEET	W/O	WITHOUT
LTG	LIGHTING	WB	WET BULB
LWT	LEAVING WATER TEMPERATURE	WC	WATER COLUMN
		WG	WATER GAUGE
		X	EXISTING

MECHANICAL EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT/AIR COMPRESSOR	GF	GAS FURNACE
ACC	AIR COOLED CONDENSER	GV	GRAVITY VENTILATOR
ACCU	AIR COOLED CONDENSING UNIT	H	HUMIDIFIER
AGU	AIR CONDITIONING UNIT	HC	HEATING COIL
AHU	AIR HANDLING UNIT	HP	HEAT PUMP
AMD	AIR MIXING DEVICE	HRC	HEAT RECOVERY COIL
ARU	AIR ROTATION UNIT	HRD	HEAT RECLAIM DEVICE
AS	AIR SEPARATOR	HX	HEAT EXCHANGER
AT	AIR TERMINAL DEVICE	IAH	INTAKE AIR HOOD
B	BOILER	IF	INLINE FAN
BBS	BOILER BLOWDOWN SEPARATOR	IFH	INFRARED HEATER
BC	BOOSTER COIL	IP	INVERTED PENTHOUSE
BFS	BOILER FEEDWATER SYSTEM	LP	LOUVERED PENTHOUSE
C	CONVECTOR	MAU	MAKE-UP AIR UNIT
CC	COOLING COIL	MCC	MOTOR CONTROL CENTER
CH	CHILLER	P	PUMP
CP	CONDENSATE PUMP	RAHU	ROOFTOP AIR HANDLING UNIT
CRU	CONDENSATE RETURN UNIT	RCP	RADIANT CEILING PANEL
CT	COOLING TOWER	REF	ROOF EXHAUST FAN
CUH	CABINET UNIT HEATER	RF	RETURN FAN
DC	DUST COLLECTOR	RH	RELIEF HOOD
DH	DEHUMIDIFIER	RTU	ROOFTOP UNIT
EBB	ELECTRIC BASEBOARD	RV	ROOF VENTILATOR
EH	EXHAUST FAN	SA	SOUND ATTENUATOR
EJ	EXHAUST HOOD	SF	SUPPLY FAN
EU	EXPANSION JOINT	T	TANK
ET	EXPANSION TANK	TXV	THERMAL EXPANSION VALVE
EUH	ELECTRIC UNIT HEATER	UHT	UNIT HEATER
F	FILTER	UST	UNDERGROUND STORAGE TANK
FCU	FAN COIL UNIT	UV	UNIT VENTILATOR
FD	FLOOR DRAIN	V	VALVE
FOP	FUEL OIL PUMP	VFD	VARIABLE FREQUENCY DRIVE
FOT	FUEL OIL TANK	VP	VACUUM PUMP
FTR	FIN TUBE RADIATION		

PIPING SYSTEMS AND FITTINGS

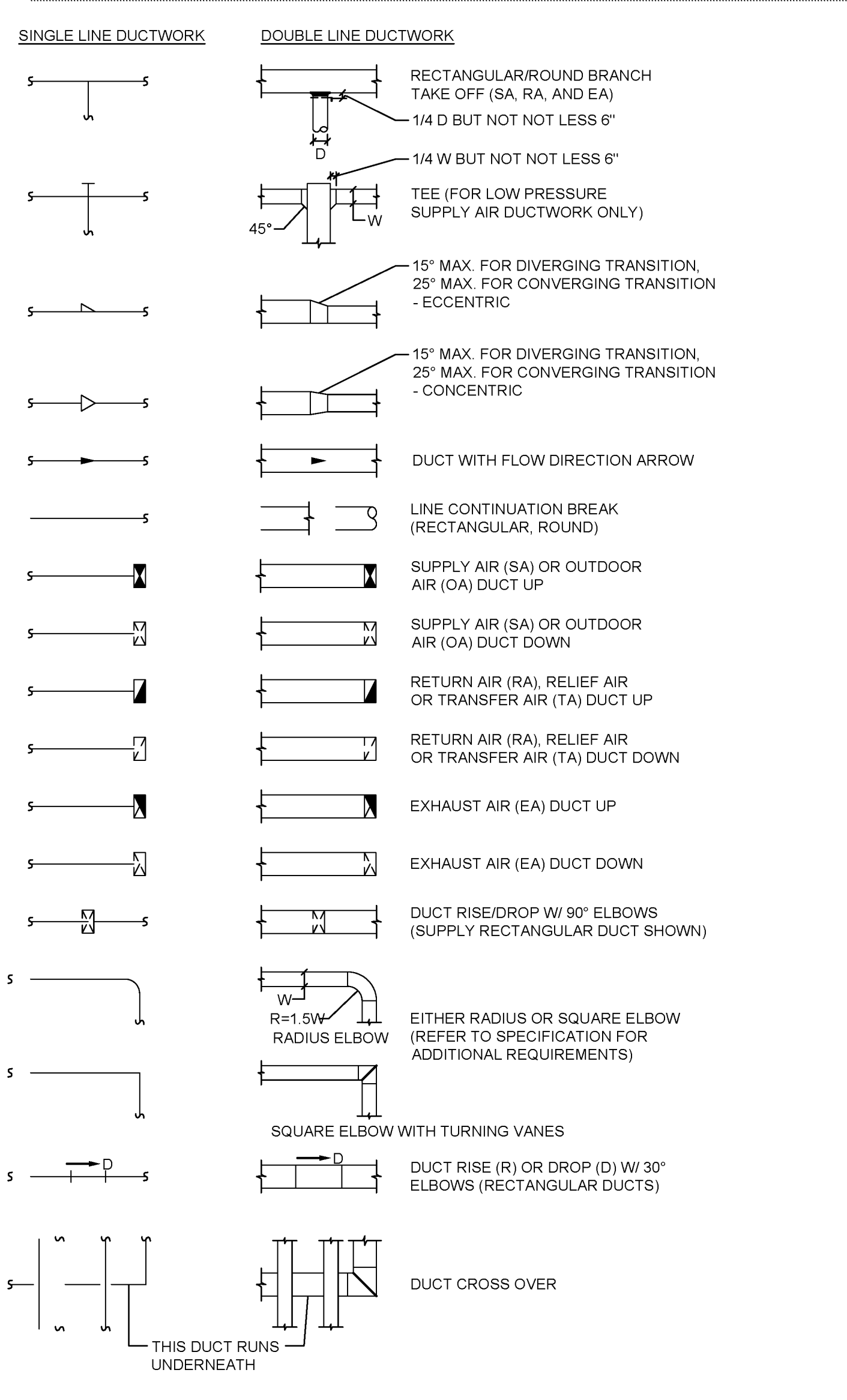
BB	BOILER BLOW DOWN	FL	FLANGE
BF	BOILER FEED	LN	UNION
BA	BREATHABLE AIR	AN	ANCHOR
CWS	CHILLED WATER SUPPLY	PG	PIPE GUIDE
CWR	CHILLED WATER RETURN	ER	ECCENTRIC REDUCER
A	COMPRESSED AIR	CR	CENTRIC REDUCER
CDS	CONDENSER WATER SUPPLY	LC	LINE CONTINUATION BREAK
CDR	CONDENSER WATER RETURN	LS	PIPELINE STRAINER
D	DRAIN LINE	ED	ELBOW DOWN
FOF	FUEL OIL FILL	EU	ELBOW UP
FOS	FUEL OIL SUPPLY	TD	TEE DOWN
FOR	FUEL OIL RETURN	TU	TEE UP
FOV	FUEL OIL VENT	PC	PIPE CAP
GCWS	GLYCOL CHILLED WATER SUPPLY	VI	VALVE IN VERTICAL
GCDR	GLYCOL CHILLED WATER RETURN		
HPWS	HEAT PUMP WATER SUPPLY		
HPWR	HEAT PUMP WATER RETURN		
HPS	HIGH PRESSURE STEAM		
HPC	HIGH PRESSURE CONDENSATE		
HWS	HOT WATER SUPPLY		
HWR	HOT WATER RETURN		
H	HUMIDIFICATION		
LP	LIQUEFIED PETROLEUM GAS		
LPS	LOW PRESSURE STEAM (10 PSIG)		
LPC	LOW PRESSURE CONDENSATE		
MW	MAKE-UP WATER		
MPS	MEDIUM PRESSURE STEAM		
MPC	MEDIUM PRESSURE CONDENSATE		
N	NATURAL GAS		
N2	NITROGEN		
V	VENT LINE		
PC	PUMPED CONDENSATE		
RHG	REFRIGERANT HOT GAS		
RL	REFRIGERANT LIQUID		
RS	REFRIGERANT SUCTION		
RV	REFRIGERANT VENT		
WC	VACUUM (AIR)		

NOTE:
(X) PRIOR TO SYSTEM TYPE
DENOTES EXISTING PIPING
(i.e. XHWS - EXISTING HOT WATER SUPPLY)
(XX) = SYSTEM PRESSURE IN PSIG
(i.e. (S)PSIG)

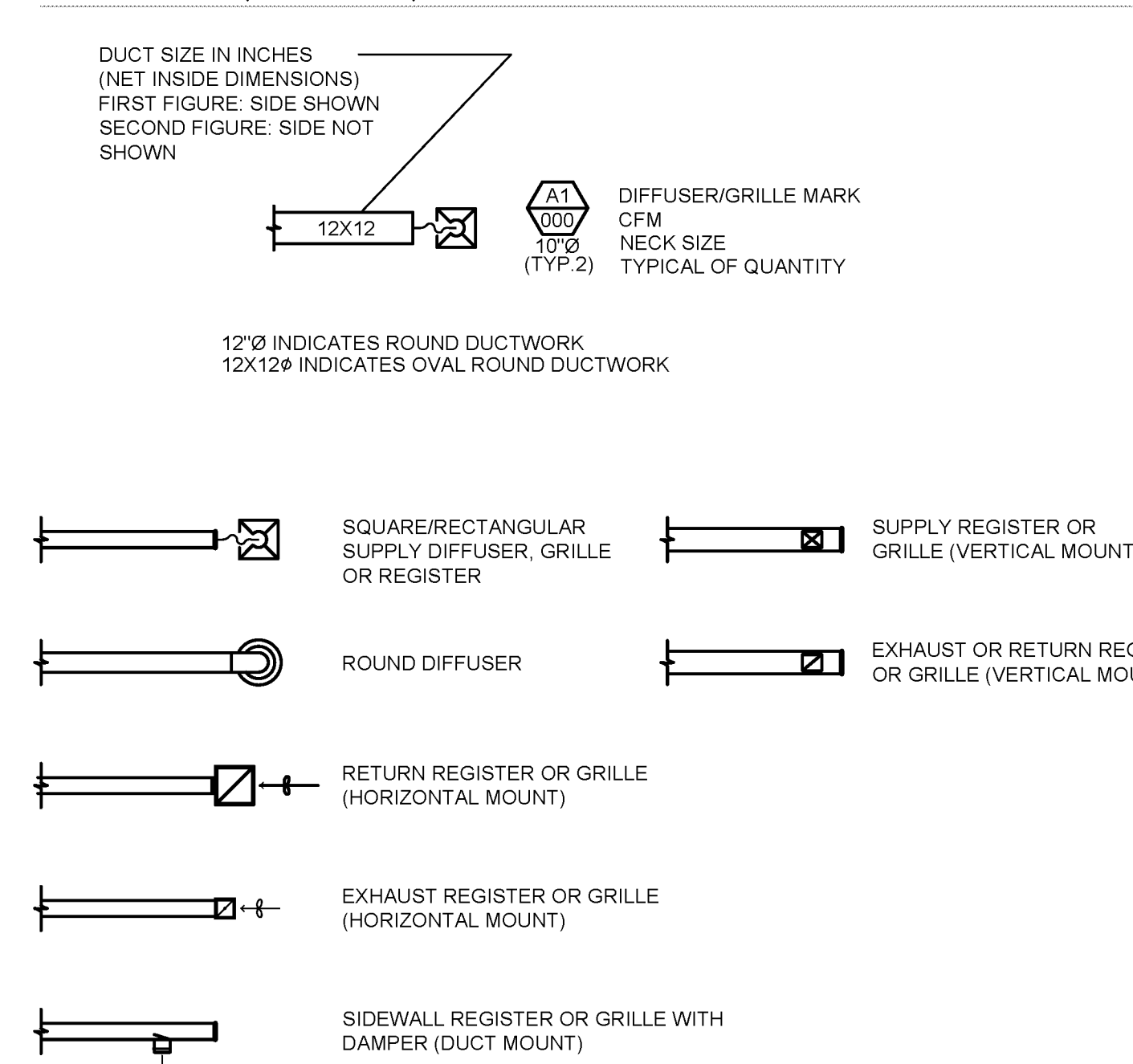
PIPE VALVES AND SPECIALTIES

AV	ANGLE VALVE	AAV	AUTOMATIC AIR VENT
BV	BALANCING VALVE (CIRCUIT SETTER)	MAV	MANUAL AIR VENT
BLV	BALL VALVE	BJ	BALL JOINT
BUV	BUTTERFLY VALVE	EJ	EXPANSION JOINT
BUVW	BUTTERFLY VALVE WITH ACTUATOR	FC	FLEXIBLE CONNECTION
CV	CHECK VALVE (ARROW INDICATES FLOW DIRECTION)	FS	FLOW SWITCH
DV	DIAPHRAGM VALVE	FM	FLOW METER
DVW	DRAIN VALVE WITH CAPPED OUTLET	P	PET'S PLUG
FOV	FLOAT OPERATED VALVE	PG	PRESSURE GAUGE
G	GATE VALVE	PS	PRESSURE SWITCH
GV	GLOBE VALVE	ST	STEAM TRAP (INDICATE TYPE: T - THERMOSTATIC TRAP F&T - FLOAT AND THERMOSTATIC TRAP IB - INVERTED BUCKET TRAP)
PV	PLUG VALVE	TM	THERMOMETER
PRV	PRESSURE REDUCING VALVE		
PRV	PRESSURE RELIEF VALVE		
SV	SHUTOFF VALVE (SEE SPECIFICATION FOR TYPE)		
SV	SOLENOID VALVE		
TEV	THERMAL EXPANSION VALVE		
TV	TRIPLE DUTY VALVE		
2W	2-WAY CONTROL VALVE		
3W	3-WAY CONTROL VALVE		

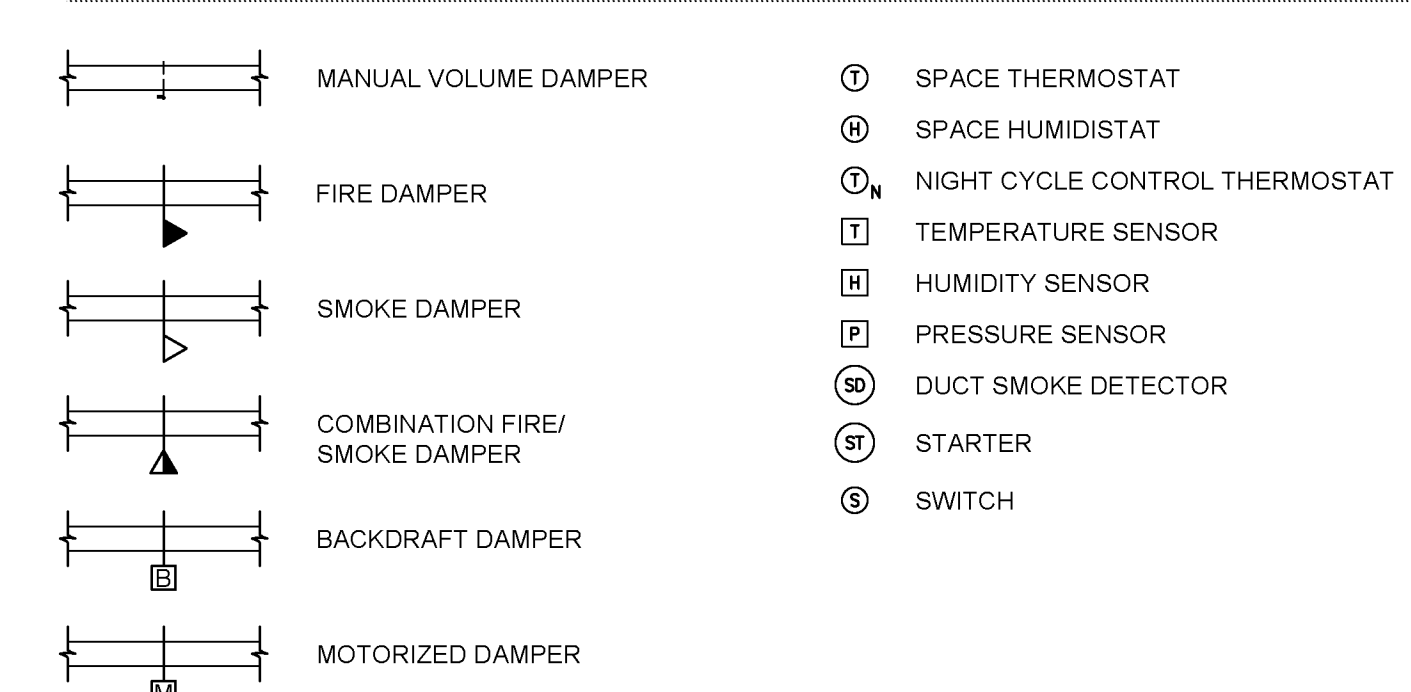
DUCTWORK FITTINGS



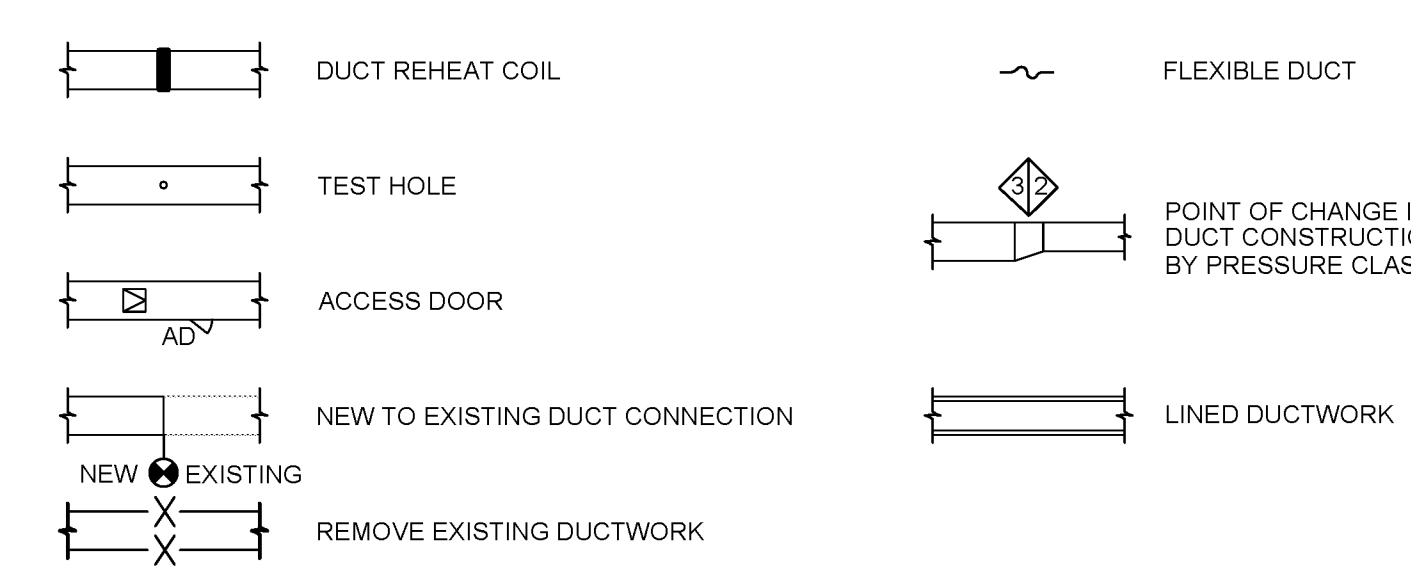
DIFFUSER, GRILLE, AND REGISTER NOTATION



DAMPERS AND CONTROLS

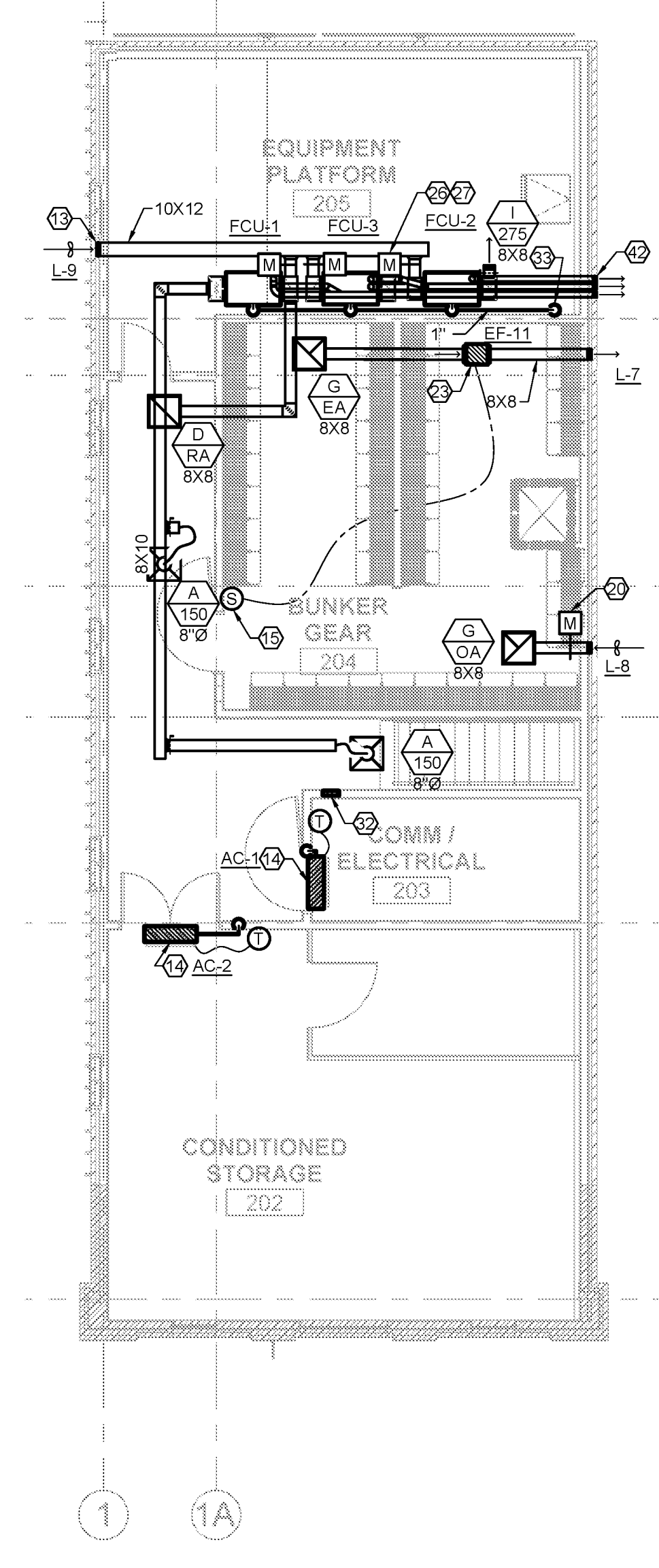


DUCTWORK SPECIALTIES

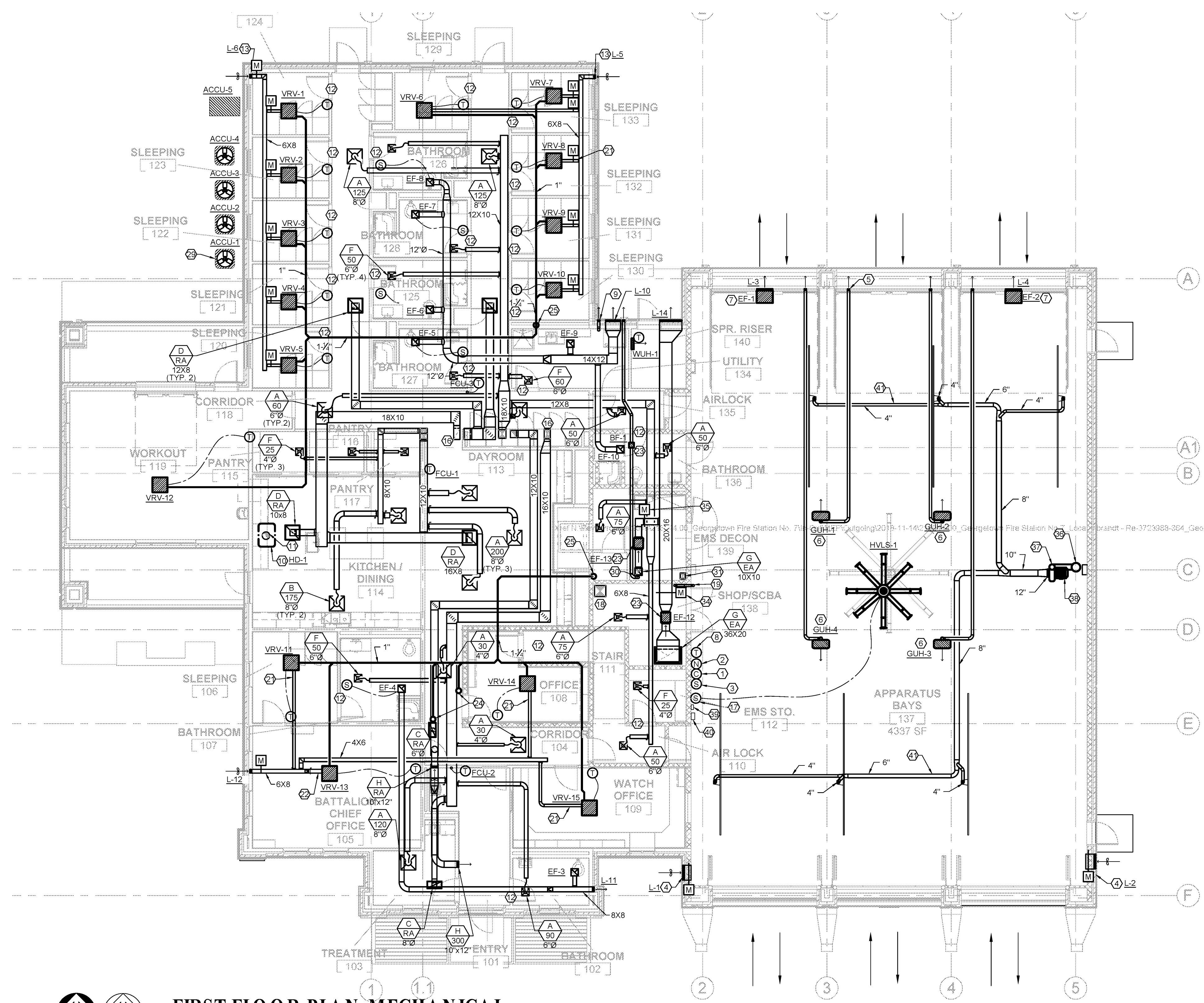


GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL COMPLY WITH ALL ADOPTED LOCAL, STATE, AND NATIONAL CODES.
- DO NOT SCALE THE DRAWINGS.
- DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR TO INSTALL PIPE AND DUCTWORK IN A MANNER ACCORDING TO GOOD PRACTICE. ANY MAJOR DEVIATIONS REQUIRED FROM THE DESIGN DRAWINGS SHALL BE VERIFIED WITH THE ENGINEER/ARCHITECT.
- FINAL ELECTRICAL CONNECTIONS AT OR ABOVE 120V SHALL BE MADE BY THE ELECTRICAL CONTRACTOR.
- INSTALL BALANCING DAMPERS AND SPLITTER DAMPERS AS SHOWN AND AS REQUIRED FOR PROPER BALANCING OF THE MECHANICAL SYSTEM. PROVIDE TO THE ENGINEER/OWNER A BALANCING REPORT SHOWING RESULTS OF BALANCE TESTING. ALL BALANCE TESTING SHALL MEET THE CURRENT NEBB STANDARDS.
- DO NOT LOCATE FCU'S, VAV'S, OR FPT'S ABOVE LIGHTS OR CONFERENCE ROOMS.
- REFER TO STRUCTURAL DRAWINGS AND OTHER DISCIPLINES FOR COORDINATING DUCT ROUTING IN CEILING PLENUM SPACE.
- PROVIDE A SET OF RECORD DRAWINGS OF THE ACTUAL INSTALLATION. RECORD DRAWINGS SHALL INCLUDE AS A MINIMUM, THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT. GENERAL CONFIGURATION OF DUCT & PIPE DISTRIBUTION SYSTEM INCLUDING SIZES AND THE TERMINAL AIR DESIGN FLOW RATES.
- AVOID ROUTING OF PIPING OR DUCTWORK ABOVE IT, ELECTRICAL OR FIRE EQUIPMENT ROOMS.
- PROVIDE APPROPRIATELY RATED FIRE STOPPING FOR PENETRATIONS THROUGH FIRE-RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED STRUCTURES.
- COORDINATE THERMOSTAT, SENSOR AND SWITCH LOCATIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
- PROVIDE DUCT TRANSITIONS FROM EQUIPMENT CONNECTIONS TO DUCT SIZES SHOWN.
- FLEXIBLE DUCT SHALL BE INSULATED AND SHALL BE THE SAME SIZE OF THE NECK OF THE AIR DEVICE. FLEXIBLE DUCTWORK SHALL NOT EXCEED 8'-0" IN LENGTH, PROVIDE WRAPPED RIGID ROUND DUCTWORK FOR TAKE-OFFS IN EXCESS OF 8'-0".
- MAINTAIN A MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES TO EXHAUST TERMINATIONS AND VENTS.
- MAINTAIN A MINIMUM 5'-0" SEPARATION FROM EXHAUST TERMINATIONS TO OPERABLE WINDOWS.
- ALL UNLINED DUCTWORK VISIBLE THROUGH THE AIR DEVICE SHALL BE PAINTED FLAT BLACK.
- CEILING TILES USED TO ACCESS FAN COIL UNITS TO BE LABELED.
- CONDENSATE DRAIN LINES SHALL BE COMPLETELY INSTALLED FOR ALL EQUIPMENT AND COMPLY WITH MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS. ALL CONDENSATE LINES TO BE INSULATED.



2 SECOND FLOOR PLAN-MECHANICAL
 1/8" = 1'-0"
 PLAN TRUE NORTH



1 FIRST FLOOR PLAN-MECHANICAL
 1/8" = 1'-0"
 PLAN TRUE NORTH

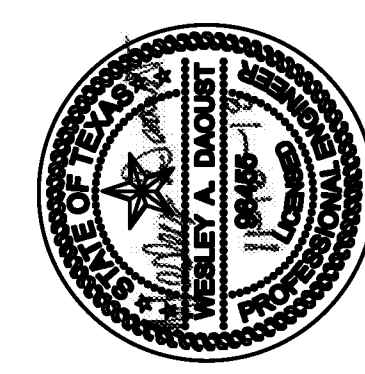
GENERAL MECHANICAL NOTES:

- A. ALL DUCTWORK AND DIFFUSER/GRILLE BACK INSULATION TO HAVE A VALUE OF NO LESS THAN R-8. INSULATE ALL SUPPLY DUCTWORK.
- B. ALL OUTSIDE AIR INTAKES TO BE A MINIMUM OF 10' FROM THE NEAREST EXHAUST PORT.
- C. ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- D. PROVIDE ACCESS PANELS TO ACCESS EQUIPMENT LOCATED ABOVE HARD LID CEILING. RE. ARCHITECTURAL.
- E. INSTALL ALL DUCTWORK BELOW BOTTOM CHORD OF TRUSS, WITHIN BUILDING ENVELOPE. RE. ARCHITECTURAL.

KEYED NOTES:

- 1. PROVIDE CO SENSOR AND INTERLOCK WITH EXHAUST FANS AND LOUVERS (EF-1.2 & L-1.2). MOUNT SENSOR AT 48" A.F.F. DAMPER TO OPEN AND FAN TO ACTIVATE TO PURGE SPACE WHEN CO IS DETECTED IN EXCESS OF 25 PPM. PROVIDE AUDIO AND VISUAL ALARM WHEN CO EXCEEDS MANUFACTURER RECOMMENDED SETPOINTS.
- 2. PROVIDE NOX SENSOR AND INTERLOCK WITH EXHAUST FANS AND LOUVERS (EF-1.2 & L-1.2). MOUNT SENSOR AT 36" BELOW CEILING PANEL DAMPER TO OPEN AND FAN TO ACTIVATE TO PURGE SPACE WHEN NOX IS DETECTED IN EXCESS OF 0.7 PPM. PROVIDE AUDIO AND VISUAL ALARM WHEN CO EXCEEDS MANUFACTURER RECOMMENDED SETPOINTS.
- 3. PROVIDE OVERRIDE SWITCH FOR ASSOCIATED FANS AND LOUVERS (EF-1.2 & L-1.2). MOUNT AT 48" A.F.F. ALL CO AND NOX ALARMS SHALL NULLIFY OVERRIDE SWITCH.
- 4. INTERLOCK MOTORIZED DAMPER WITH EXHAUST FANS (EF-1 & EF-2) OPERATION. REFER TO ARCHITECTURAL FOR FINAL LOUVER LOCATION.
- 5. ROUTE 4" TYPE B-VENT CONCENTRIC GAS FLUE ABOVE CEILING TO BACK SIDE OF BUILDING. COORDINATE FINAL LOCATION WITH ARCHITECT AND ENSURE UNITS ARE RATED FOR EXHAUST RUN LENGTHS PRIOR TO STARTING WORK. PROVIDE WITH WALL FLUE VENT CAP AT OUTLET. SIZE, ROUTE, AND INSTALL PER MANUFACTURER RECOMMENDATIONS. MOUNT ACCORDING TO MANUFACTURER SPECIFICATIONS (TYP. 4).
- 6. NATURAL GAS FIRED UNIT HEATER OPERATION TO BE INTERLOCKED WITH OVERHEAD DOORS. UNIT TO BE DISABLED WHEN DOORS ARE OPEN.
- 7. EXHAUST FAN TO BE MOUNTED TIGHT TO CEILING.
- 8. INTERLOCK GAS UNIT HEATERS WITH WALL MOUNTED THERMOSTAT.
- 9. PROVIDE 4" EXHAUST DUCT CONNECTION FOR CLOTHES DRYER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ENSURE ALL REQUIRED CLEARANCES AND REQUIREMENTS PER SECTIONS 903.1.1 AND 904 OF THE 2012 INTERNATIONAL MECHANICAL CODE.
- 10. PROVIDE 12" EXHAUST DUCTWORK DOWN TO RANGE HOOD, HD-1.
- 11. ROUTE 12" EXHAUST DUCTWORK UP THROUGH ROOF. COORDINATE FINAL LOCATION WITH ARCHITECT AND ENSURE RANGE HOOD IS RATED FOR EXHAUST RUN LENGTHS PRIOR TO STARTING WORK. PROVIDE WITH ROOF CAP AT OUTLET. SIZE, ROUTE, AND INSTALL PER MANUFACTURER RECOMMENDATIONS.
- 12. UNDERCUT DOOR 3/4" FOR AIR TRANSFER.
- 13. COORDINATE FINAL LOUVER LOCATION WITH ARCHITECT. (TYP.)
- 14. MOUNT UNIT ABOVE DOOR.
- 15. MOUNT TIMER SWITCH 48" A.F.F. AND INTERLOCK WITH EF-11. COORDINATE FINAL LOCATION WITH ARCHITECT AND TENANT.
- 16. DUCTWORK SERVES FAN COIL UNITS IN MECHANICAL ROOM. RE. SECOND FLOOR PLAN-MECHANICAL. (TYP.)
- 17. WALL MOUNTED SPEED CONTROLLER FOR HVLS-1.
- 18. TERMINATE DUCTWORK WITH WIRE MESH 20" A.F.F.
- 19. 3" INNER DIAMETER PVC PIPE FOR FRESH AIR INTAKE OF SCBA EQUIPMENT. CONTRACTOR SHALL CUT HOLE IN TOP OF SCBA EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS. PIPE TO RUN ABOVE CEILING, THROUGH EXTERIOR WALL, AND TURN DOWN AND EXTEND 12". TERMINATE WITH INSECT SCREEN. PAINT ASSEMBLY TO MATCH WALL COLOR.
- 20. INTERLOCK MOTORIZED DAMPER WITH ASSOCIATED EF-11 OPERATION.
- 21. DUCT 4" EXHAUST OUTSIDE AIR DUCT TO VRV-4. (TYP.)
- 22. DUCT 6" EXHAUST OUTSIDE AIR DUCT TO VRV-13.
- 23. PROVIDE ACCESS HATCH FOR EQUIPMENT.
- 24. 3/4" CONDENSATE DRAIN DOWN FROM ABOVE. CONTRACTOR TO VERIFY SLOPE AND CLEARANCES BEFORE STARTING WORK. PROVIDE 1/2" INSULATION ON PIPING.
- 25. 1-1/2" CONDENSATE PIPING DOWN IN WALL TO FLOOR SINK. PROVIDE WITH AIR GAP FITTING.
- 26. INTERLOCK MOTORIZED DAMPER WITH ASSOCIATED FCU-# OPERATION. (TYP.)
- 27. ROUTE OUTSIDE AIR DUCT DOWN AND CONNECT TO FCU-# RETURN AIR DUCT. BALANCE TO AIRFLOW SHOWN IN SCHEDULE. (TYP.)
- 28. 8"x12" AND 12"x10" SUPPLY AIR DUCT UP TO 18"x12" SUPPLY AIR DUCT.
- 29. ROUTE REFRIGERANT PIPING ALONG EXTERIOR WALL TO ROOF USING UNISTRUT FOR SUPPORT. COORDINATE FINAL ACCU LOCATIONS WITH ARCHITECT. COORDINATE EXACT REFRIGERANT ROUTING AND SIZING WITH EQUIPMENT MANUFACTURER.
- 30. DRYER EXHAUST DUCT SHALL BE CONSTRUCTED OF GALVANIZED STEEL OR ALUMINUM AND MEET THE REQUIREMENTS OF 2015 IMC SECTION 903.4.
- 31. ROUTE 8"x10" MAKE UP AIR DUCTWORK FOR GEAR DRYER UP. TERMINATE DUCTWORK WITH WIRE MESH 36" A.F.F. PROVIDE GREENCHECK GRSI-10 INTAKE HOOD AT ROOF PENETRATION. PROVIDE WITH INSECT SCREEN.
- 32. JACE PANEL. COORDINATE FINAL LOCATION WITH ELECTRICAL EQUIPMENT. REFER TO TEMPSET SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 33. ROUTE 1" CONDENSATE FROM FAN COIL UNITS TO FLOOR SINK SERVING ELECTRIC WATER HEATER. RE. PLUMBING. PROVIDE WITH AIR GAP FITTING. PROVIDE WITH 1/2" INSULATION.
- 34. INTERLOCK MOTORIZED DAMPER WITH ASSOCIATED EF-12 OPERATION.
- 35. INTERLOCK MOTORIZED DAMPER WITH ASSOCIATED EF-13 OPERATION.
- 36. ROOF PENETRATION FOR FAN DISCHARGE.
- 37. 10 HP FAN MOUNTED INSIDE OF STRUCTURE. COORDINATE MOUNTING LOCATION AND REQUIREMENTS WITH STRUCTURAL.
- 38. VERTICAL FAN STACK WITH BACKDRAFT DAMPER AND WEATHER COVER.
- 39. FUSED ELECTRICAL DISCONNECT.
- 40. PLYMOUNT CENTRAL CONTROL PANEL.
- 41. VEHICLE EXHAUST SYSTEM DUCTWORK TO BE MOUNTED ABOVE CEILING WHERE POSSIBLE.
- 42. PROVIDE CONCENTRIC VENT FOR FAN COIL UNITS. TERMINATE AND ROUTE PER MANUFACTURER'S RECOMMENDATIONS.

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BROWN REYNOLDS WATFORD ARCHITECTS, INC.
 DATE 11/16/2018
 DRAWN BY ENW
 CHECKED BY W.D.
 BRW PROJECT NUMBER 218044.00

CITY OF GEORGETOWN
FIRE STATION No. 7
 2703 EAST STATE HIGHWAY 29
 GEORGETOWN, TX 78626

NO.	REVISION	DATE

M1.1
 MECHANICAL FLOOR PLANS

FAN AND COIL UNIT SCHEDULE - NATURAL GAS HEAT

Table with columns: MARK, SUPPLY CFM, OA CFM, SUMMER EAT DB/WB, LAT DB / WB, OA TEMP DB / WB, TOTAL BTUH, SENSIBLE BTUH, HP, STATIC PRESS, NATURAL GAS HEAT BTUH, VOLTS PHASE, MCA, MOCP, WEIGHT LBS, REFRIG, MANUFACTURER.

- 1. SELECT SYSTEM ON ARI CONDITIONS.
2. PROVIDE WITH MANUFACTURER SPECIFIED GRILLING COIL, CONDENSING UNIT, FURNACE, AND COOLING COIL UNIT TO MATCH.
3. FILTERS TO BE AS SPECIFIED.
4. STATIC PRESSURE INCLUDES DUCTWORK, GRILLES AND RETURN AIR LOSS.
5. STATIC PRESSURE LOSS THRU FILTER IS CLEAN.
6. STAINLESS STEEL IAQ DRAIN PANS.
7. PROVIDE UNITS WITH CONDENSATE FLOAT SWITCH IN THE PRIMARY DRAIN PAN. REFER TO DETAIL.
8. REFER TO PLANS FOR UNIT ORIENTATION AND DUCT LOCATIONS.
9. UNITS TO BE DIRECT-VENT (2 PIPE) SIZE, ROUTE AND TERMINATE PER MANUFACTURER'S RECOMMENDATIONS.
10. PROVIDE WITH ACCESSIBLE HINGED ACCESS DOORS FOR MONTHLY MAINTENANCE.
11. PROVIDE FCU WITH PROGRAMMABLE THERMOSTAT THAT MEETS THE CITY OF GEORGETOWN'S CONTROLS SYSTEM REQUIREMENTS. REFER TO SPECIFICATIONS.
12. PROVIDE SPRING VIBRATION ISOLATION FOR UNIT.
13. GENERAL CONTRACTOR TO COORDINATE WITH CITY OF GEORGETOWN CONTROLS CONTRACTOR, TEMPSET, TO ENSURE SELECTED EQUIPMENT IS CAPABLE OF INTEGRATING WITH CITY BAS.
ALL EQUIPMENT TO BE REVIEWED BY CONTROLS CONTRACTOR AND MECHANICAL ENGINEER PRIOR TO ORDERING EQUIPMENT.

UNIT HEATERS - NATURAL GAS FIRED

Table with columns: MARK, TYPE, CFM, GAS FIRED BTUH (INPUT, OUTPUT), VENT DIA, HP, VOLT PHASE, MOTOR RPM, APPROX. WEIGHT (LBS), MANUFACTURER / MOD, NOTES.

- 1. PROVIDE PERM. SPLIT CAP. MOTOR.
2. ALL FANS TO HAVE DISCONNECT SWITCHES.
3. UNIT TO HAVE ELECTRONIC IGNITION.
4. ALUMINUM HEAT EXCHANGER.
5. PROVIDE WITH CEILING HUNG MOUNTING KIT AND GAS SHUT OFF VALVE.
6. INCLUDE FACTORY SUPPLIED LOCKABLE THERMOSTAT COVER, THERMOSTAT MOUNTED ON WALL.
7. GUH TO BE INTERLOCKED WITH OVERHEAD DOORS, SUCH THAT WHEN OVERHEAD DOORS ARE OPEN, GUH ARE OFF.
8. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND CLEARANCE REQUIREMENTS.
9. MINIMUM HEIGHT TO BOTTOM OF UNIT HEATER SHALL BE 18" A.F.F.
10. PROVIDE WITH MANUFACTURER'S PROPANE CONVERSION KIT.

AIR COOLED CONDENSING UNIT SCHEDULE

Table with columns: MARK, SERVES, TOTAL BTUH, AMBIENT TEMP, SEER / EER, VOLTS PHASE, MCA, MOCP, WEIGHT LBS, REFRIG, MANUFACTURER, NOTES.

- 1. PROVIDE UNIT WITH CRANK CASE HEATER, SITE GLASS, HIGH & LOW LIMIT SWITCHES, TIME GUARD RELAY, LIQUID LINE FILTER DRYER AND CONDENSATE OUTLET.
2. INSTALL ALL UNITS ON 4" CONCRETE PAD.
3. PROVIDE WITH LOW AMBIENT CONTROL KIT.
4. SYSTEM MUST PROVIDE CONTINUOUS HEATING DURING DEFROST AND OIL RETURN. SYSTEMS WITHOUT THIS CAPABILITY MUST BE DE-RATED TO ACCOUNT FOR HEATING LOST DURING DEFROST CYCLE AND UNIT.
5. CONDENSING UNITS MUST HAVE AUTO CHANGE OVER FUNCTIONS.
6. SYSTEM SHALL BE PROVIDED WITH I-TOUCH MANAGER CONTROLLER WITH WEB BASED SOFTWARE FOR DISPLAYING UP TO 8 DIII - NET SYSTEMS WITH 128 INDOOR UNITS PER SYSTEM. PC BY OTHERS.
7. MANUFACTURER'S SUBMITTAL MUST INCLUDE REFRIGERANT PIPING DIAGRAM WITH PIPE DIAMETERS, LENGTHS, AND REFRIGERANT VOLUME.
8. CONTRACTOR TO VERIFY PIPING DIMENSIONS.
9. INSTALLING CONTRACTOR MUST HAVE SUCCESSFULLY COMPLETED MANUFACTURER'S CERTIFIED INSTALLATION CLASS WITHIN PAST 36 MONTHS.
10. MANUFACTURER MUST PROVIDE 10 YEARS PARTS WARRANTY ON ALL VRV'S, CONDENSING UNITS, MODE CHANGE OVER DEVICES, AND ZONE CONTROLS. WARRANTY CONDITIONS MUST BE CLARIFIED DURING SUBMITTAL PHASE.

VARIABLE REFRIGERANT VOLUME INDOOR UNIT SCHEDULE

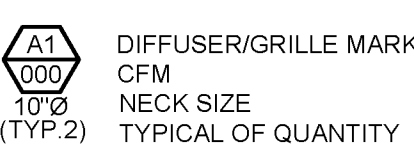
Table with columns: MARK, SERVES, SUPPLY CFM, OUTSIDE AIR CFM, COOLING MBH, HEATING MBH, VOLTS PHASE, MCA, MOCP, WEIGHT (LBS), MANUFACTURER, NOTES.

- 1. PROVIDE WITH MANUFACTURER'S FRESH AIR INTAKE KIT.

AIR DEVICE SCHEDULE

Table with columns: MARK, DESCRIPTION, RADIATION DAMPER, OBD DAMPER, MANUFACTURER, TITUS OR EQUAL.

- 1. VERIFY ALL CEILING TYPES WITH ARCHITECTURAL DRAWINGS.
2. ALL AIR DEVICES SHALL BE ALUMINUM, UNLESS NOTED.
3. SUPPLY RADIATION DAMPERS FOR DEVICES PENETRATING RATED CEILINGS.
4. VERIFY FINAL COLOR / FINISH WITH ARCHITECT FOR ALL DIFFUSERS AND GRILLES.



VARIABLE REFRIGERANT VOLUME -ZONE HEAT RECOVERY DEVICE SCHEDULE

Table with columns: TAG, SERVES, VOLTAGE PHASE, MCA, MOCP, MAX CAPACITY (PER PORT), DIMENSIONS (WXHXD IN.), WEIGHT LBS, MANUFACTURER.

- 1. INDIVIDUAL CONTROL AND CHANGE OVER CAPACITY.
2. UNLIMITED NUMBER OF UNUSED PORTS PER BOX OR SYSTEM.
3. NO DRAIN PIPING NEEDED.
4. STANDARD LIMITED WARRANTY: 10 YEAR WARRANTY ON ALL PARTS.
5. LOCATION OF EQUIPMENT TO BE DETERMINED BY MANUFACTURER.

FAN SCHEDULE

Table with columns: MARK, SERVICE, CFM, STATIC PRESS, FAN RPM, DRIVE TYPE, VOLT PHASE, POWER, SONES, WEIGHT, MANUFACTURER, NOTES.

- 1. PROVIDE WITH DISCONNECT SWITCH.
2. PROVIDE WITH SPEED CONTROLLER LOCATED ON DIRECT DRIVE FAN.
3. PROVIDE SPRING ISOLATION SUPPORTS.
4. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
5. PROVIDE WITH INTEGRAL MOTORIZED DAMPER.
6. INTERLOCK FAN WITH WALL MOUNTED SWITCH.
7. FAN TO BE CONTROLLED WITH WALL MOUNTED TIMER SWITCH. SWITCH TO BE 2-HOUR DIAL STYLE.
8. FAN TO BE CONTROLLED WITH WALL MOUNTED IAQ SENSORS AND OVERHEAD SWITCH.
9. EXHAUST FAN TO BE INTERLOCKED WITH STATION ALERTING SYSTEM. PROVIDE WITH DELAYED ON/DELAYED OFF TIMER.
10. FAN TO BE INTERLOCKED WITH APPLIANCE OPERATION.
11. PROVIDE WITH SPEED CONTROLLER ON FAN.

LOUVER SCHEDULE

Table with columns: MARK, SERVICE, CFM, WIDTH (INCHES), HEIGHT (INCHES), VELOCITY (FPM), FREE AREA (SF), MANUFACTURER, NOTES.

- 1. VERIFY FINAL COLOR / FINISH WITH ARCHITECT FOR ALL LOUVERS.
2. LOUVER TO BE STATIONARY TYPE.
3. LOUVER TO BE OF ALUMINUM MATERIAL.
4. PROVIDE DAMPERS AS INDICATED ON DRAWINGS.
5. PROVIDE LOUVER WITH BIRD SCREEN.
6. L-1 & 2 MOTORIZED DAMPER TO BE INTERLOCKED WITH EF-1 & 2 OPERATION.

HIGH VOLUME LOW SPEED FAN SCHEDULE

Table with columns: MARK, BLADES, SIZE, HP, MAX RPM, VOLT PHASE, AMPS, MOCP, WEIGHT, MANUFACTURER.

- 1. ALL FANS SUPPLIED WITH BAF CONTROL BOX WITH VARIABLE FREQUENCY DRIVE INCLUDING LINE FILTER.
2. CONTRACTOR TO COORDINATE WITH OWNER FOR EXACT FAN LOCATION.
3. CONTRACTOR TO COORDINATE WITH OWNER FOR SWITCH CONTROL LOCATION.
4. PROVIDE WITH 2' EXTENSION TUBE. CONTRACTOR TO VERIFY EXTENSION TUBE LENGTH AND MOUNTING BRACKET WITH MANUFACTURER PRIOR TO ORDERING.
5. BOTTOM OF FANS SHALL BE AT LEAST 10" A.F.F.
6. FANS SHALL BE AT LEAST 2' AWAY, IN ALL DIRECTIONS, FROM POSSIBLE OBSTRUCTIONS.
7. FANS SHALL NOT BE MOUNTED WITHIN 2 TIMES THE FAN DIAMETER OF EXHAUST OR RETURN AIR INTAKES, AND SHALL NOT BE IN DIRECT LINE OF DISCHARGE OF HVAC EQUIPMENT.
8. EXTENSION TUBES 4' OR LONGER SHALL BE INSTALLED WITH GUYWIRES PER THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
9. FANS SHALL BE AT THE SAME LEVEL OR HIGHTER THAN RADIANT HEATERS AND OUTSIDE THE MINIMUM CLEARANCE TO COMBUSTIBLES.
10. FANS SHALL BE AT LEAST TWO AND ONE-HALF TIMES THE DIAMETER OF THE LARGEST FAN AWAY FROM NEIGHBORING FANS.
11. FANS SHALL BE TIED INTO FIRE PROTECTION SYSTEM. FANS WILL SHUT DOWN UPON ACTIVATION OF FIRE ALARM.
12. MANUFACTURER TO BE BIG ASS FANS OR EQUAL.

KITCHEN RANGE HOOD

Table with columns: MARK, SERVICE, CFM, FAN CONTROL, FUEL CUTOFF (GAS), VOLT PHASE, AMPS, LIGHT BULB, MANUFACTURER.

- 1. DENLAR RANGE HOOD FIRE PROTECTION 1000 SERIES, WALL MOUNTED.
2. HOOD TO BE STAINLESS STEEL CONSTRUCTION.
3. HOOD TO BE PREINSTALLED WITH AUTOMATIC FIRE SUPPRESSION SYSTEM, WITH 212" RATED FUSIBLE LINKS.
4. EXTINGUISHING AGENT TO BE WET CHEMICAL POTASSIUM CITRATE OR POTASSIUM ACETATE SOLUTION.
5. PROVIDE WITH 12" TOP VENTING CENTRIFUGAL IN-LINE DUCT FAN.
6. HOOD TO BE ETL LABELED TO UL300A AND UL507A.
7. HOOD SHALL AUTOMATICALLY DISCONNECT RANGE FUEL UPON SYSTEM DISCHARGE VIA GAS SOLENOID.
8. HOOD TO HAVE 2 ALARM CONNECTION TERMINALS PRE-INSTALLED AND INTERNAL AUDIBLE BUZZER (90 DB).
9. PROVIDE WITH 60W INCANDESCENT SHATTER PROOF BULB.
10. SOLENOID TO BE 3/4" FOR GAS FLOW OF 247,500 BTUH, 50 PSI DIFFERENTIAL WITH UL LISTING FOR SAFETY SHUT-OFF VALVE (NORMALLY CLOSED).

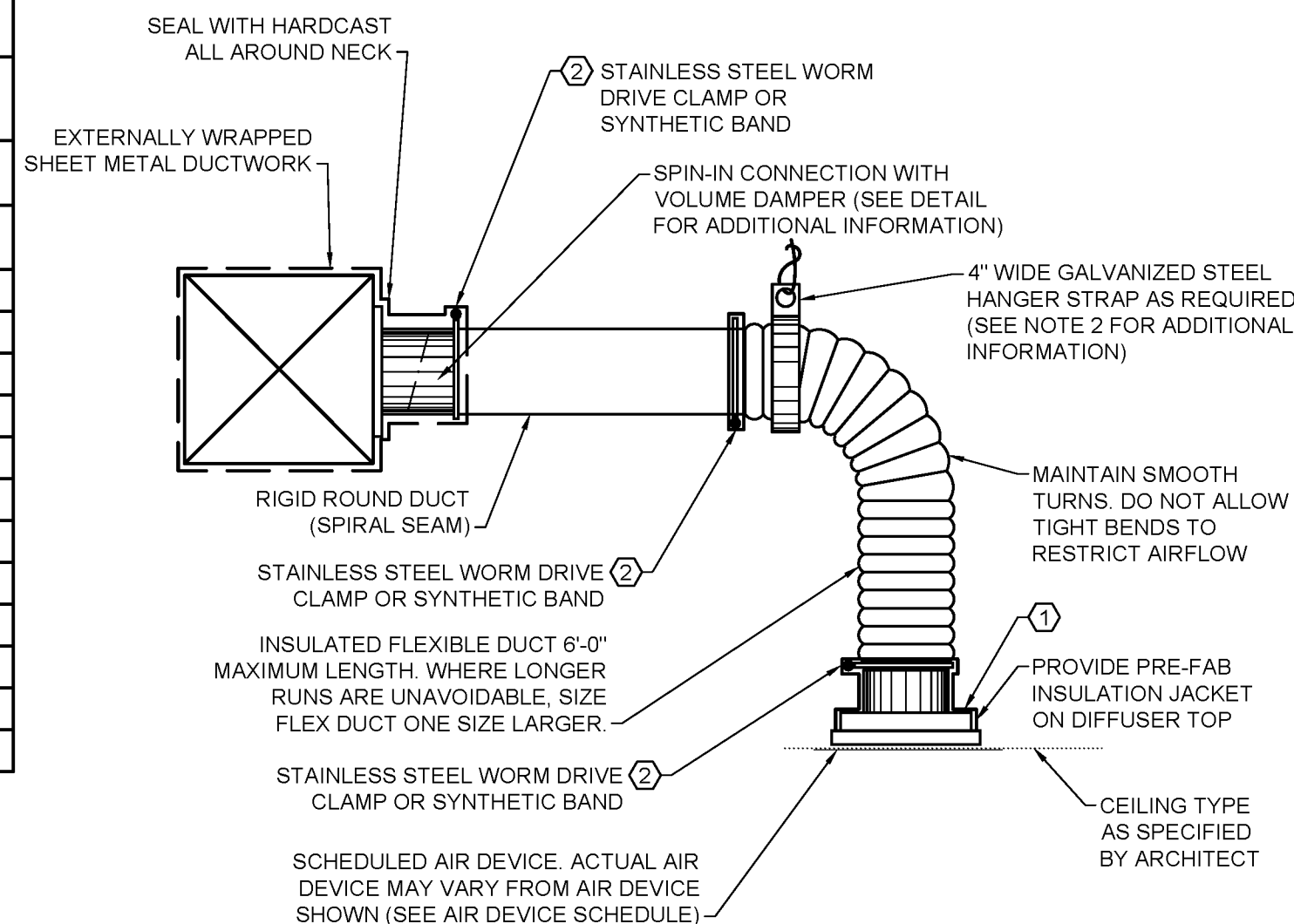
KITCHEN HOOD INFORMATION

HOOD #1
HOOD SIZE: 48 SQ. FT.
EXHAUST DUCT SIZE: 1 @ 12"
EXHAUST DUCT GAUGE: MINIMUM 16 GAUGE THICK, WELDED BLACK STEEL INSULATED WITH 2" THICK FIRESTOP INSULATION.
EXHAUST FAN CFM: 510 CFM @ 1,500 FPM
COOKING EQUIPMENT HOOD SERVES: RANGE.

ELECTRIC WALL UNIT HEATER

Table with columns: MARK, SERVICE, BTUH, AMPS, WATTS, VOLT PHASE, MANUFACTURER.

- 1. PROVIDE FOR RECESSED MOUNT INSTALLATION IN WALL.
2. WALL HEATER FACE PLATE DIMENSIONS TO BE 13-1/16" W x 19-9/16" H x 1" DEEP.
3. PROVIDE WITH BUILT IN FAN DELAY, PROVIDE INTEGRAL T-STAT.
4. MOUNT UNIT 18-24" A.F.F. PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.



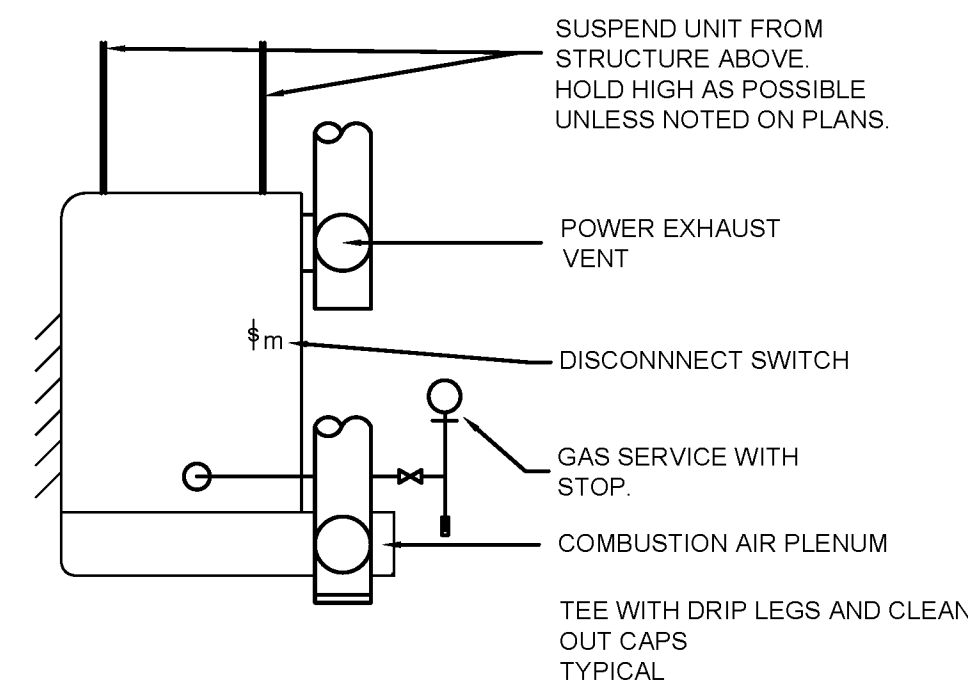
01 CEILING DIFFUSER INSTALLATION DETAIL

SCALE: NTS

- 1. CEILING DIFFUSER SHALL BE INSTALLED SUCH THAT THE FACE OF DIFFUSER IS FLUSH WITH CEILING.
2. SUPPORT FLEXIBLE DUCT FROM STRUCTURE. FLEXIBLE DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURE CEILING SUPPORT 'TEES' OR CEILING TILE. 5'-0\"/>

KEYED NOTES:

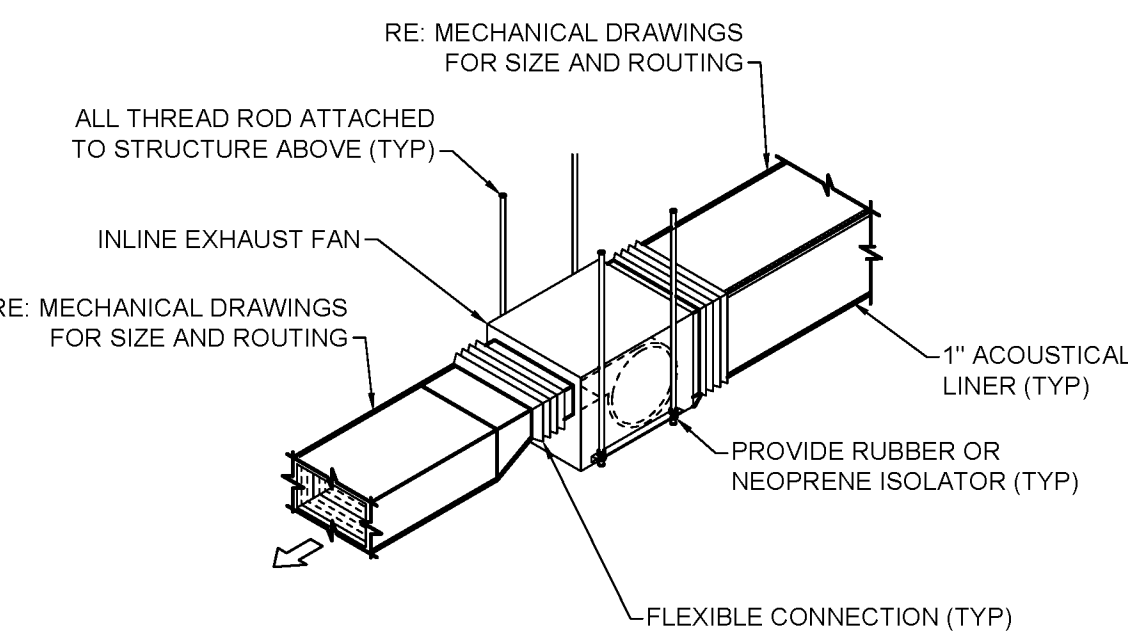
- 1. FOR UNCONDITIONED CEILING PLENUMS, INSULATE ENTIRE BACK OF CEILING DIFFUSER WITH 1\"/>



02 APPARATUS BAY UNIT HEATER DETAIL

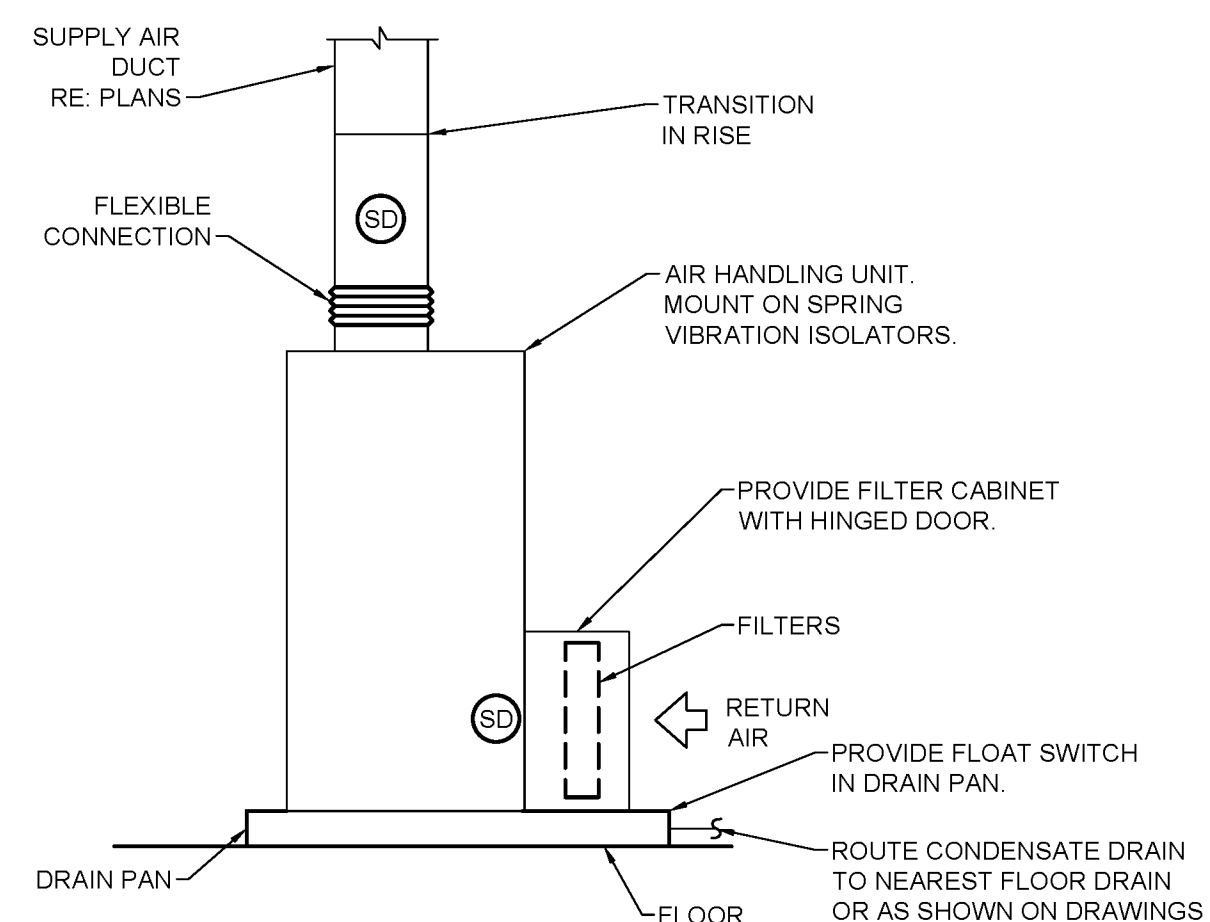
SCALE: NTS

- 1. UNITS MUST MEET ALL IECC REQUIREMENTS.
2. IF OVER 50 CF/1000 BTUH, NO COMBUSTION REQUIRED.



03 INLINE EXHAUST FAN DETAIL

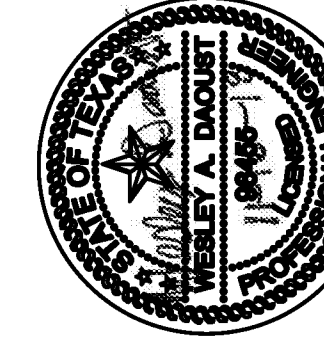
SCALE: NTS



04 FAN COIL UNIT - VERTICAL

SCALE: NTS

BROWN REYNOLDS WATFORD ARCHITECTS logo and contact information: 2700 EARL BUDGER FERRY SOUTH, SUITE 400B, HOUSTON, TEXAS 77045, 979.694.1791, WWW.BRWARCH.COM



City of Georgetown logo and contact information: 11/16/2018, DRAWN BY: ENW, W.D., CHECKED BY: W.D., PROJECT NUMBER: 218044.00

CITY OF GEORGETOWN FIRE STATION No. 7, 2703 EAST STATE HIGHWAY 29, GEORGETOWN, TX 78626

Table with columns: NO., REVISION, DATE.



MECHANICAL
THE CONTRACTOR SHALL PROVIDE THE FOLLOWING ENERGY CODE REQUIREMENTS.
THE FOLLOWING REQUIREMENTS ARE MANDATORY PROVISIONS AND ARE NECESSARY FOR COMPLIANCE WITH THE CODE.

DRAWINGS CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE AS A MINIMUM, THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM INCLUDING SIZES, AND THE TERMINAL AIR OR WATER DESIGN FLOW RATES.

MANUALS CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT AN OPERATING MANUAL AND A MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE. THESE MANUALS SHALL BE IN ACCORDANCE WITH INDUSTRY-ACCEPTED STANDARDS (SEE APPENDIX E) AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

- (A) SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
- (B) OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT, REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- (C) NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY.
- (D) HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS, DESIRED OR FIELD-DETERMINED SET-POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS, IN PROGRAMMING COMMENTS.
- (E) A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SUGGESTED SET-POINTS.

ENERGY CODE - SHUTOFF DAMPER CONTROLS BOTH OUTDOOR AIR SUPPLY AND EXHAUST SYSTEMS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEMS OR SPACES SERVED ARE NOT IN USE. VENTILATION OUTDOOR AIR DAMPERS SHALL BE CAPABLE OF AUTOMATICALLY SHUTTING OFF DURING PREOCCUPANCY BUILDING WARMUP, COOL DOWN, AND SETBACK, EXCEPT WHEN VENTILATION REDUCES ENERGY COSTS (E.G., NIGHT PURGE) OR WHEN VENTILATION MUST BE SUPPLIED TO MEET CODE REQUIREMENTS. OUTSIDE AIR DAMPERS AND EXHAUST FANS SHALL BE INTERLOCKED TO CLOSE THE DAMPER AND TURN OFF THE FAN WHEN THE SUPPLY AIR SYSTEM IS DE-ENERGIZED.

- EXCEPTIONS:
- (A) GRAVITY (NON-MOTORIZED) DAMPERS ARE ACCEPTABLE IN SYSTEMS WITH A DESIGN OUTDOOR AIR INTAKE OR EXHAUST CAPACITY OF 300 CFM OR LESS.
- (B) IN SYSTEMS WHERE DAMPERS ARE PROHIBITED BY THE MECHANICAL CODE AND SECTION C403.2.4.3 OF 2015 IECC, THEY SHALL HAVE A MAXIMUM LEAKAGE RATE OF 4 CFM PER SQUARE FOOT OF DAMPER AREA AT 1" W.G. PER AMCA STANDARD 500.

HVAC SYSTEMS SHALL BE EQUIPPED WITH AT LEAST ONE OF THE FOLLOWING:

- (A) CONTROLS THAT CAN START AND STOP THE SYSTEM UNDER DIFFERENT TIME SCHEDULES FOR SEVEN DIFFERENT DAY TYPES PER WEEK, ARE CAPABLE OF RETAINING PROGRAMMING AND TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS, AND INCLUDE AN ACCESSIBLE MANUAL OVERRIDE, OR EQUIVALENT FUNCTION, THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO TWO HOURS, IS CAPABLE OF TEMPERATURE SETBACK DOWN TO 55F DURING OFF HOURS, AND IS CAPABLE OF TEMPERATURE SETUP TO 85F DURING OFF HOURS.
- (B) AN OCCUPANT SENSOR THAT IS CAPABLE OF SHUTTING THE SYSTEM OFF WHEN NO OCCUPANT IS SENSED FOR A PERIOD OF UP TO 30 MINUTES.
- (C) A MANUALLY OPERATED TIMER CAPABLE OF BEING ADJUSTED TO OPERATE THE SYSTEM FOR UP TO TWO HOURS.
- (D) AN INTERLOCK TO A SECURITY SYSTEM THAT SHUTS THE SYSTEM OFF WHEN THE SECURITY SYSTEM IS ACTIVATED.

CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT ALL HVAC SYSTEMS BE BALANCED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS (SECTION C408.2.2 OF 2012 IECC). CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT A WRITTEN BALANCE REPORT BE PROVIDED TO THE OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER FOR THE HVAC SYSTEMS SERVING ZONES WITH A TOTAL CONDITIONED AREA EXCEEDING 5000 SF. AIR SYSTEMS SHALL BE BALANCED IN A MANNER TO FIRST MINIMIZE THROTTLING LOSSES. THEN, FOR FANS WITH FAN SYSTEM POWER GREATER THAN 1 HP, FAN SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS. EACH SUPPLY OUTLET AND ZONE TERMINAL DEVICE SHALL BE EQUIPPED WITH MEANS FOR AIR BALANCING.

HYDRONIC SYSTEMS SHALL BE PROPORTIONATELY BALANCED IN A MANNER TO FIRST MINIMIZE THROTTLING LOSSES. THEN THE PUMP IMPELLER SHALL BE TRIMMED OR PUMP SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS. INDIVIDUAL HYDRONIC HEATING AND COOLING COILS SHALL BE EQUIPPED WITH MEANS FOR BALANCING AND PRESSURE TEST CONNECTIONS. EXCEPTIONS: IMPELLERS NEED NOT BE TRIMMED NOR PUMP SPEED ADJUSTED FOR PUMPS WITH PUMP MOTORS OF 10 HP OR LESS OR WHEN THROTTLING RESULTS IN NO GREATER THAN 5 PERCENT OF THE NAMEPLATE HORSEPOWER DRAW, OR 3 HP, WHICHEVER IS GREATER, ABOVE THAT REQUIRED IF THE IMPELLER WAS TRIMMED.

ALL MECHANICAL PLUMBING SUPPLY AND RETURN PIPING SHALL BE INSULATED PER THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE - TABLE C403.2.1 - MINIMUM PIPE INSULATION

MINIMUM PIPE INSULATION THICKNESS

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)				
	CONDUCTIVITY BTU-IN / (H·FT ² ·°F)	MEAN RATING TEMPERATURE, °F	<1	1 TO <1 1/2	1 1/2 TO <4	4 TO <8	≥ 8
> 350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0
< 40	0.20 - 0.26	75	0.5	1.0	1.0	1.0	1.5

ALL THERMOSTATS TO BE NEW AND PROGRAMMABLE PER THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE - SECTION C403.2.4.

ALL SUPPLY AND RETURN AIR DUCTS LOCATED IN UNCONDITIONED ATTICS, UNCONDITIONED SPACES INCLUDING MECHANICAL ROOMS, UNCONDITIONED PLENUMS, OUTSIDE OF THE ENVELOPE OR OUTSIDE THE BUILDING SHALL BE INSULATED USING R-8 INSULATION AND COMPLY WITH THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE. ALL SUPPLY AND RETURN DUCTS LOCATED IN A CONDITIONED SPACE OR CONDITION PLENUM SHALL BE INSULATED USING R-8 INSULATION AND COMPLY WITH THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE. INSULATION SHALL BE CONTINUOUS THROUGH ALL WALLS/CEILING INCLUDING RATED WALLS. NO INSULATION / VAPOR BARRIER BREAKS WILL BE ALLOWED. ALL SUPPLY AIR DIFFUSER BACKS TO BE INSULATED PER SPECIFICATIONS ABOVE AND PER LOCATION INSTALLED. ALL EXPOSED DUCTWORK TO BE 1" THICK DOUBLE WALL SPIRAL ROUND WITH 1" THICK INSULATION BETWEEN INNER AND OUTER LAYERS OF SHEET METAL.

ALL DUCTWORK TO BE SHEETMETAL AS SPECIFIED WITH EXTERNAL INSULATION AS SPECIFIED. ACOUSTICAL LINER IS NOT APPROVED.

ANCHOR AND SUPPORTS MUST MEET VERTICAL AND HORIZONTAL LOADS WITHIN THE STRESS LIMITATIONS SPECIFIED IN THE INTERNATIONAL BUILDING CODE FOR THE MINIMUM BASIC WIND SPEED. ANCHOR AND SUPPORTS TO COMPLY WITH SECTION 1609 - 2015 IBC.

DUCTWORK AND PLENUMS SHALL BE SEALED IN ACCORDANCE WITH SECTION 603.9 OF THE 2015 INTERNATIONAL MECHANICAL CODE AND SECTION C403.2.9 OF THE 2015 INTERNATIONAL COMMERCIAL ENERGY CONSERVATION CODE.

ALL DUCTWORK MATERIALS SHALL BE GALVANIZED STEEL. GAUGES, BRACING AND SUPPORTS SHALL BE PER SMACNA MANUAL. PLENUMS SHALL BE 18-GAUGE. PROVIDE AIRFOIL TYPE TURNING VANES AT ALL CHANGES IN DIRECTION. EXTRACTORS SHALL HAVE OPERATORS. CROSS-BREAK ALL DUCTS 12 INCHES AND WIDER. DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. SUPPORT DUCTS A MAXIMUM OF 8 FEET ON CENTERS WITH 1" X 26 GAUGE HANGERS. SECURE SUPPORTS WITH A SHEETMETAL SCREW ON BOTTOM, AND 12" CENTERS ON SIDES. DAMPERS SHALL HAVE FELT EDGES AND BE 16 GAUGE. PROVIDE LOCKING QUADRANTS FOR DAMPERS. PROVIDE CONCEALED REGULATORS FOR EXTRACTORS ON BRANCH DUCTS. ON TAKEOFFS TO THE CEILING DIFFUSES. U.L. FIRE DAMPERS WITH ACCESS DOORS SHALL BE PROVIDED AS SHOWN ON THE PLANS OR REQUIRED BY CODE. INSTALL DAMPERS AND ACCESS DOORS PER U.L. REQUIREMENTS.

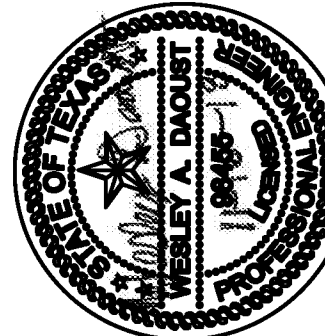
Outside Airflow Calculation

Zone Identification		Standard Case: 2012 IMC Ventilation Rate Procedure											
Floor	Room #	Room Name	Occupancy Category (Table 403.3)	Area (A _a) (F ²)	People Outdoor Air Rate (R _a) (cfm/person)	Table 403.3 Area Outdoor Air Rate (R _a) (cfm/F ²)	Occupant Density (#/1000 F ²)	Total Occupants (P _z) (people)	Breathing Zone Outdoor Air Flow (V _z) (CFM)	Table 403.3.1.2 Air Distribution Configuration	Zone Air Distribution Effectiveness (E _z)	Zone Outdoor Air Flow (V _z) (CFM)	Required Airflow at 20% Outside Airflow
1st	101	ENTRY	Reception areas	179	5.0	0.06	30	6	41	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	51	255
1st	102	BATHROOM	Toilet Rooms (Public)	61	0.0	0.00	0	0	0	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	0	0
1st	103	TREATMENT	Patient rooms	87	25.0	0.00	10	1	25	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	31	156
1st	104	CORRIDOR	Corridors	180	0.0	0.06	0	0	11	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	14	68
1st	105	CHIEF OFFICE	Office space	375	5.0	0.06	5	5	48	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	59	297
1st	106	SLEEPING	Dormitory sleeping areas	113	5.0	0.06	20	3	22	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	27	136
1st	107	BATHROOM	Bathroom/toilet-Private	96	0.0	0.00	0	0	0	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	0	0
1st	108	OFFICE	Office space	169	5.0	0.06	5	1	15	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	19	95
1st	108A	STORAGE	Storage Rooms	40	0.0	0.12	0	0	5	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	6	30
1st	109	WATCH OFFICE	Office space	235	5.0	0.06	5	4	34	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	43	213
1st	110	AIRLOCK	Corridors	49	0.0	0.06	0	0	3	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	4	18
1st	111	STAIR	Corridors	80	0.0	0.06	0	0	5	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	6	30
1st	112	EMS STORAGE	Storage	55	0.0	0.00	0	0	0	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	0	0
1st	113	DAYROOM	Dayroom	532	5.0	0.06	30	16	112	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	140	700
1st	114	KITCHEN	Kitchens (cooking)	435	0.0	0.00	0	0	0	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	0	0
1st	115	PANTRY	Storage Rooms	36	0.0	0.12	0	0	4	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	5	27
1st	116	PANTRY	Storage Rooms	35	0.0	0.12	0	0	4	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	5	26
1st	117	PANTRY	Storage Rooms	35	0.0	0.12	0	0	4	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	5	26
1st	118	CORRIDOR	Corridors	292	0.0	0.06	0	0	18	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	22	110
1st	119	WORKOUT	Health club/weight rooms	456	20.0	0.06	10	5	127	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	159	796
1st	120	SLEEPING	Dormitory sleeping areas	82	5.0	0.06	20	2	15	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	19	93
1st	121	SLEEPING	Dormitory sleeping areas	83	5.0	0.06	20	2	15	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	19	94
1st	122	SLEEPING	Dormitory sleeping areas	82	5.0	0.06	20	2	15	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	19	93
1st	123	SLEEPING	Dormitory sleeping areas	83	5.0	0.06	20	2	15	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	19	94
1st	124	SLEEPING	Dormitory sleeping areas	83	5.0	0.06	20	2	15	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	19	94
1st	125	BATHROOM	Toilet Rooms (Public)	88	0.0	0.00	0	0	0	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	0	0
1st	126	BATHROOM	Toilet Rooms (Public)	88	0.0	0.00	0	0	0	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	0	0
1st	127	BATHROOM	Toilet Rooms (Public)	88	0.0	0.00	0	0	0	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	0	0
1st	128	BATHROOM	Toilet Rooms (Public)	89	0.0	0.00	0	0	0	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	0	0
1st	129	SLEEPING	Dormitory sleeping areas	78	5.0	0.06	20	2	15	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	18	92
1st	130	SLEEPING	Dormitory sleeping areas	83	5.0	0.06	20	2	15	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	19	94
1st	131	SLEEPING	Dormitory sleeping areas	85	5.0	0.06	20	2	15	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	19	94
1st	132	SLEEPING	Dormitory sleeping areas	83	5.0	0.06	20	2	15	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	19	94
1st	133	SLEEPING	Dormitory sleeping areas	84	5.0	0.06	20	2	15	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	19	94
1st	134	UTILITY	Laundry rooms within dwelling units	108	5.0	0.12	10	2	23	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	29	144
1st	135	AIRLOCK	Corridors	49	0.0	0.06	0	0	3	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	4	18
1st	136	BATHROOM	Toilet Rooms (Public)	82	0.0	0.00	0	0	0	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	0	0
1st	137	APPARATUS BAY	Air Garages, Enclosed Parking Garages	4225	0.0	0.00	0	0	0	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	0	0
1st	138	SHOP/SCBA	Storage Rooms	111	0.0	0.12	0	0	13	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	17	83
1st	139	EMS DECON	Office space	146	5.0	0.06	5	1	14	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	17	86
1st	140	SPRINKLER RISER	Corridors	55	0.0	0.06	0	0	3	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	4	21
1st	141	CORRIDOR	Corridors	252	0.0	0.06	0	0	15	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	19	95
1st	142	CORRIDOR	Corridors	230	0.0	0.06	0	0	14	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	17	86

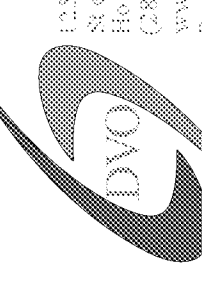
Outside Airflow Calculation

Zone Identification		Standard Case: 2012 IMC Ventilation Rate Procedure											
Floor	Room #	Room Name	Occupancy Category (Table 403.3)	Area (A _a) (F ²)	People Outdoor Air Rate (R _a) (cfm/person)	Table 403.3 Area Outdoor Air Rate (R _a) (cfm/F ²)	Occupant Density (#/1000 F ²)	Total Occupants (P _z) (people)	Breathing Zone Outdoor Air Flow (V _z) (CFM)	Table 403.3.1.2 Air Distribution Configuration	Zone Air Distribution Effectiveness (E _z)	Zone Outdoor Air Flow (V _z) (CFM)	Required Airflow at 20% Outside Airflow
2nd	201	CORRIDOR	Corridors	376	0.0	0.06	0	0	23	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	28	141
2nd	202	CONDITIONED STORAGE	Storage Rooms	563	0.0	0.12	0	0	68	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	84	422
2nd	202A	CLOSET	Storage Rooms	102	0.0	0.12	0	0	12	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	15	77
2nd	203	COMM/ELECTRIC AL	Media center	107	10.0	0.12	25	3	43	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	54	268
2nd	204	BUNKER GEAR	Dressing Rooms	478	0.0	0.00	0	0	0	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	0	0
2nd	205	EQUIPMENT PLATFORM	Corridors	476	0.0	0.06	0	0	29	Ceiling supply of warm air 15°F or more above space temperature and ceiling return.	0.80	36	179

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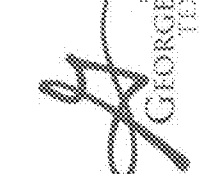



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BROWN REYNOLDS WATFORD ARCHITECTS, INC.
DATE: 11/16/2018
DRAWN BY: ENW
CHECKED BY: W.D
BRW PROJECT NUMBER: 218044.00

CITY OF GEORGETOWN
FIRE STATION No. 7
2703 EAST STATE HIGHWAY 29
GEORGETOWN, TX 78626



NO.	REVISION	DATE



Project Information

Energy Code: 2015 IECC
 Project Title: GEORGETOWN FIRE STATION NO. 7
 Location: Austin, Texas
 Climate Zone: 2a
 Project Type: New Construction

Construction Site: 2703 EAST STATE HIGHWAY 29, GEORGETOWN, TX 78626
 Owner/Agent: WILLIAMSON COUNTY/CITY OF GEORGETOWN, GEORGETOWN, TX 78626
 Designer/Contractor: EMILEE WILLIAMS DVO ENGINEERING, 1641 CALIFORNIA ST SUITE 100, DENVER, CO 80202, 720.479.0502 EXT. 162, E.WILLIAMS@DVOENG.COM

Additional Efficiency Package(s)
 Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Mechanical Systems List

Quantity	System Type & Description
1	FCU-1 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 40 kBtu/h Proposed Efficiency = 96.00% Et, Required Efficiency = 80.00% Et Cooling: 1 each - Split System, Capacity = 42 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential Proposed Efficiency = 14.50 SEER, Required Efficiency: 13.00 SEER Fan System: None
1	FCU-2 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 40 kBtu/h Proposed Efficiency = 96.00% Et, Required Efficiency = 80.00% Et Cooling: 1 each - Split System, Capacity = 36 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential Proposed Efficiency = 13.00 SEER, Required Efficiency: 13.00 SEER Fan System: None
1	FCU-3 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 40 kBtu/h Proposed Efficiency = 96.00% Et, Required Efficiency = 80.00% Et Cooling: 1 each - Split System, Capacity = 36 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential Proposed Efficiency = 13.00 SEER, Required Efficiency: 13.00 SEER Fan System: None
11	VRV-1,2,3,4,5,6,7,8,9,10,11 (Single Zone): VRF, Air Cooled w/ Heat Recovery Heat Pump Heating Mode: Capacity = 4 kBtu/h, No minimum efficiency requirement applies Cooling Mode: Capacity = 6 kBtu/h, No minimum efficiency requirement applies Fan System: VRV's -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Single-Zone VAV, 700 CFM, 0.1 motor nameplate hp, 80.0 fan efficiency grade

Project Title: GEORGETOWN FIRE STATION NO. 7 Report date: 07/25/18
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Quantity System Type & Description

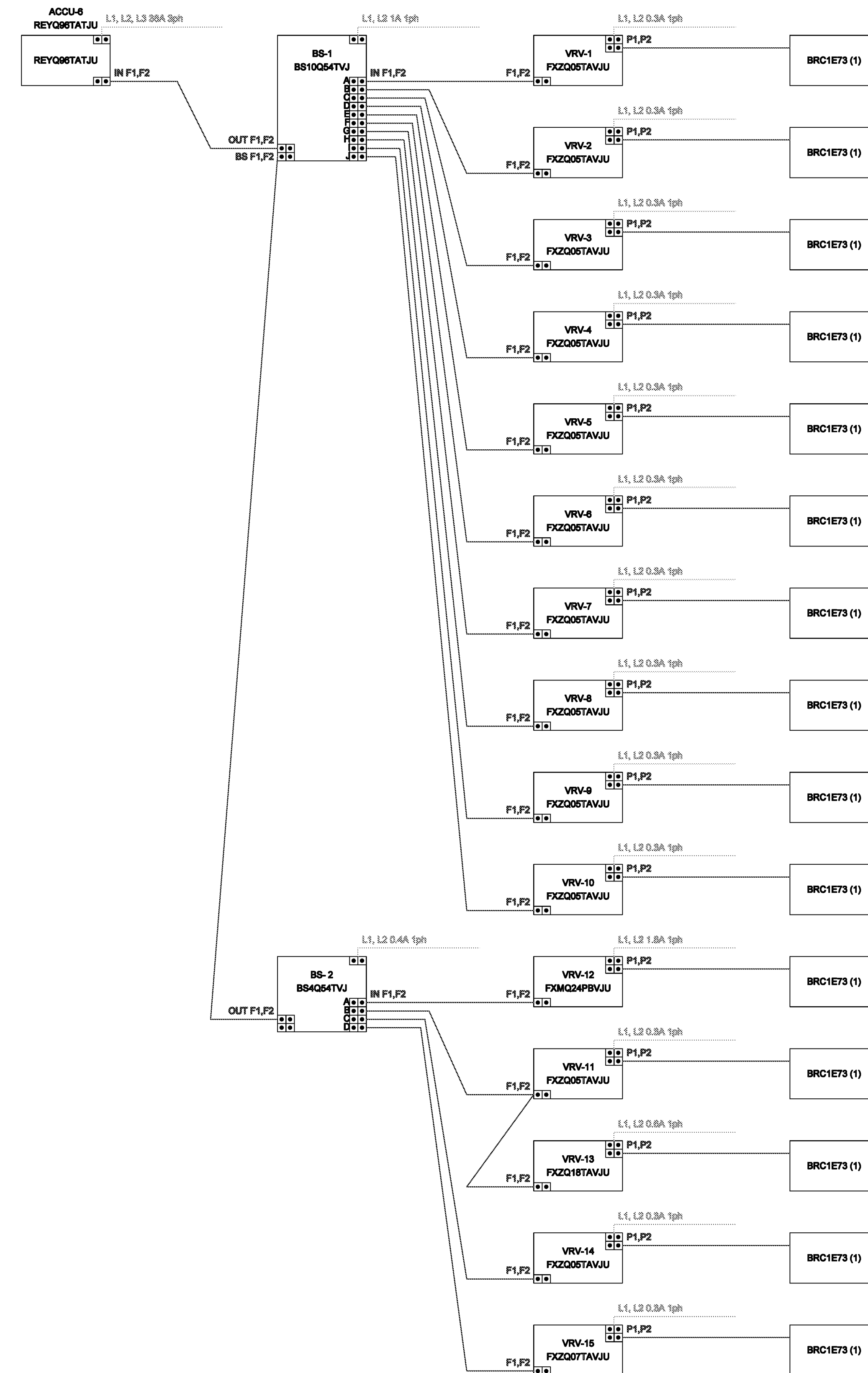
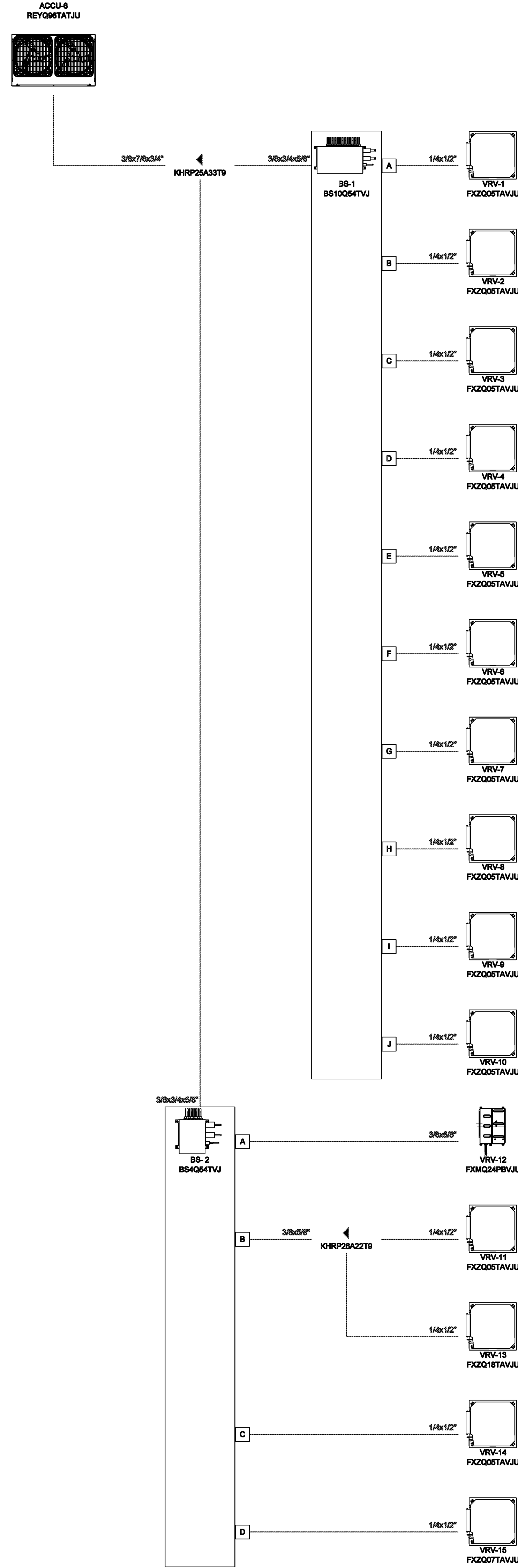
1	VRV-12 (Single Zone): VRF, Air Cooled w/ Heat Recovery Heat Pump Heating Mode: Capacity = 17 kBtu/h, No minimum efficiency requirement applies Cooling Mode: Capacity = 20 kBtu/h, No minimum efficiency requirement applies Fan System: VRV's -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Single-Zone VAV, 700 CFM, 0.1 motor nameplate hp, 80.0 fan efficiency grade
1	VRV-13 (Single Zone): VRF, Air Cooled w/ Heat Recovery Heat Pump Heating Mode: Capacity = 9 kBtu/h, No minimum efficiency requirement applies Cooling Mode: Capacity = 15 kBtu/h, No minimum efficiency requirement applies Fan System: VRV's -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Single-Zone VAV, 700 CFM, 0.1 motor nameplate hp, 80.0 fan efficiency grade
1	VRV-14 (Single Zone): VRF, Air Cooled w/ Heat Recovery Heat Pump Heating Mode: Capacity = 3 kBtu/h, No minimum efficiency requirement applies Cooling Mode: Capacity = 4 kBtu/h, No minimum efficiency requirement applies Fan System: VRV's -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Single-Zone VAV, 700 CFM, 0.1 motor nameplate hp, 80.0 fan efficiency grade
1	VRV-15 (Single Zone): VRF, Air Cooled w/ Heat Recovery Heat Pump Heating Mode: Capacity = 5 kBtu/h, No minimum efficiency requirement applies Cooling Mode: Capacity = 7 kBtu/h, No minimum efficiency requirement applies Fan System: VRV's -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Single-Zone VAV, 700 CFM, 0.1 motor nameplate hp, 80.0 fan efficiency grade
1	WUH-1 (Unknown): Heating: 1 each - Unit Heater, Electric, Capacity = 5 kBtu/h No minimum efficiency requirement applies Fan System: WUH -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 2 Supply, Constant Volume, 150 CFM, 0.1 motor nameplate hp, 80.0 fan efficiency grade
1	GUH-1,2,3,4 (Unknown): Heating: 1 each - Unit Heater, Propane, Capacity = 105 kBtu/h Proposed Efficiency = 85.00% Et, Required Efficiency = 80.00% Et Fan System: GUH'S -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 3 Supply, Constant Volume, 1345 CFM, 0.1 motor nameplate hp, 80.0 fan efficiency grade
1	GWH-1: Gas Storage Water Heater, Capacity: 100 gallons, Input Rating: 150 kBtu/h w/ Circulation Pump Proposed Efficiency: 90.00 % Et, Required Efficiency: 90.00 % Et

Project Title: GEORGETOWN FIRE STATION NO. 7 Report date: 07/25/18
 Data filename: O:\Houston\1_ALL PROJECTS\Folder\2018\182009 Georgetown Fire Station No. 7\MEPEnergy Page 2 of 19
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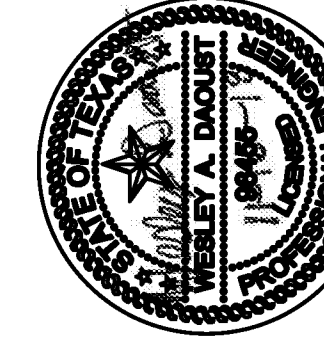
Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Emilee Williams, Mech. Engineer
 Name - Title Signature Date 07/25/18



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BROWN REYNOLDS WATFORD ARCHITECTS, INC.
 DATE: 11/16/2018
 DRAWN BY: ENW
 CHECKED BY: WJD
 BRW PROJECT NUMBER: 218044.00

CITY OF GEORGETOWN FIRE STATION No. 7
 2703 EAST STATE HIGHWAY 29
 GEORGETOWN, TX 78626

NO.	REVISION	DATE

M2.3
 MECHANICAL ENERGY COMPLIANCE & DIAGRAMS

PLUMBING SYMBOLS AND ABBREVIATIONS

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED HERE ARE USED IN THE DRAWINGS AND MAY NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE DRAWINGS.

PLUMBING ABBREVIATIONS

AB	ABOVE	MAX	MAXIMUM
ACC	ACCESS	MB	MB
ADJ	ADJUSTABLE	MBH	THOUSANDS OF BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MC	MECHANICAL CONTRACTOR
AFG	ABOVE FINISHED GRADE	MCA	MINIMUM CIRCUIT AMPACITY
ALT	ALTERNATE	MCC	MOTOR CONTROL CENTER
AP	ACCESS PANEL	MEP	MECHANICAL, ELECTRICAL AND PIPING
APPROX.	APPROXIMATELY	MER	MECHANICAL EQUIPMENT ROOM
ARCH	ARCHITECTURAL	MEZ	MEZZANINE
ASSY	ASSEMBLY	MFR	MANUFACTURER
AVG	AVERAGE	MH	MANHOLE
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BOT	BOTTOM	MTD	MOUNTED
BOP	BOTTOM OF PIPE	MTG	MOUNTING
BTU	BATH TUB	NA	NOT APPLICABLE
BTU	BRITISH THERMAL UNITS	NIC	NOT IN CONTRACT
BTUH	BRITISH THERMAL UNITS PER HOUR	NO	NUMBER
BTW	BETWEEN	NPS	NOMINAL PIPE SIZE
CAP	CEILING ACCESS PANEL	NPSH	NET POSITIVE SUCTION HEAD
CFI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	NPT	NATIONAL PIPE THREAD
CFH	CUBIC FEET PER HOUR	NR	NEAR
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
CL	CENTERLINE	OC	ON CENTER
CLG	CLEARWATER VENT	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CO	CLEANOUT	OFOW	OWNER FURNISHED, OWNER INSTALLED
COND	CONDUCTOR	OLP	OVERLOAD PROTECTION
CONT	CONTRACTOR	OV	OVERFLOW PROTECTION
COP	COEFFICIENT OF PERFORMANCE	P	PUMP
CTR	CENTER	PC	PLUMBING CONTRACTOR
CU	COPPER	PCF	POUNDS PER CUBIC FOOT
CW	COLD WATER	PD	PRESSURE DROP
CWFU	COLD WATER FIXTURE UNITS	PH	PHASE
DD	DRAIN DECK	PIV	POST INDICATOR VALVE
DEG	DEGREES	PLBG	PLUMBING
DET	DETAIL	POC	POINT OF CONNECTION
DFU	DRAINAGE FIXTURE UNITS	PP	POLYPROPYLENE
DIA	DIAMETER	PPH	POUNDS PER HOUR
DIM	DIMENSION	PRV	PRESSURE RELIEF VALVE
DN	DOWN	PSF	POUNDS PER SQUARE FOOT
DS	DOWNSPOUT	PSI	POUNDS PER SQUARE INCH
DT	DRAIN TILE	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
DWG	DRAWING	PSIG	POUNDS PER SQUARE INCH GAUGE
E	EXISTING	PVC	POLYVINYL CHLORIDE
EA	EACH	RAD	RADIUS
EC	ELECTRICAL CONTRACTOR	RD	REINFORCED CONCRETE PIPE
EEW	EMERGENCY EYEWASH	RD	ROOF DRAIN
EFF	EFFICIENCY	REC	RECESSED
EJ	EXPANSION JOINT	RECPT	RECEPTACLE
ELEC	ELECTRICAL	REQD	REQUIRED
ELEV	ELEVATION	RF	ROOF
EM	EMERGENCY	RI	ROUGH-IN
EQUIP	EQUIPMENT	RPM	REVOLUTIONS PER MINUTE
ES	EMERGENCY SHOWER	RPZ	REDUCED PRESSURE ZONE VALVE
ET	EXPANSION TANK	RV	RELIEF VALVE
ETR	EXISTING TO REMAIN	S	SLOPE
EWC	ELECTRIC WATER COOLER	SCH	SCHEDULE
EWH	ELECTRIC WATER HEATER	SDR	STANDARD DIMENSION RATIO
EWT	ENTERING WATER TEMPERATURE	SH	SHOWER
EXH	EXHAUST	SHT	SHEET
EXP	EXPANSION	SOG	SLAB ON GRADE
EXST	EXISTING	SPEC	SPECIFICATION
EXT	EXTERIOR	SS	SQUARE
F	FUTURE	SS	STAINLESS STEEL
FCO	FLOOR CLEANOUT	STD	STANDARD
FD	FLOOR DRAIN	STRU	STRUCTURAL
FEE	FINISHED FLOOR ELEVATION	T&P	TEMPERATURE AND PRESSURE TO BE REMOVED
FLA	FULL LOAD AMPS	TD	TRENCH DRAIN
FLR	FLOOR	TD	TOTAL DRAIN FIXTURE UNITS
FM	FACTORY MUTUAL	TEMP	TEMPERATURE
FP	FIREPROOF	TOB	TOP OF BEAM
FB	FEET PER MINUTE	TOD	TOP OF DUCT/DECK
FPS	FEET PER SECOND	TOJ	TOP OF JOIST
F&T	FLOAT AND THERMOSTATIC	TOP	TOP OF PIPE
FT	FEET	TOS	TOP OF SLAB
FTG	FOOTING	TSTAT	THERMOSTAT
FJ	FIXTURE UNITS	TWU	TOTAL WATER FIXTURE UNITS
GA	GAUGE	TYP	TYPICAL
GAL	GALLON	UNO	UNLESS OTHERWISE NOTED
GALV	GALVANIZED	V	VENT
GC	GENERAL CONTRACTOR	VEL	VELOCITY
GPM	GALLONS PER MINUTE	VIB	VALVE IN BOX
GPH	GALLONS PER HOUR	VOL	VOLUME
HB	HOSE BIBB	W	WIDTH
HD	HUB DRAIN	W	WITH
HP	HORSE POWER	W/O	WITHOUT
H.P.	HIGH POINT	WC	WATER COLUMN
HVAC	HEATING, VENTILATING & AIR CONDITIONING	WSFU	WATER SUPPLY FIXTURE UNITS
HW	HOT WATER	WG	WATER GAUGE
HWFU	HOT WATER FIXTURE UNITS		
HWR	HOT WATER RETURN		
ID	INSIDE DIAMETER		
IE	INVERT ELEVATION		
IN	INCHES		
KO	KNOCK-OUT		
L	LAVATORY		
LBS	POUNDS		
LBHR	POUNDS PER HOUR		
L.F.	LINEAR FEET		
LP	LOW POINT		
LTG	LIGHTING		
LWT	LEAVING WATER TEMPERATURE		

PIPING SYSTEMS LABELS

WATER PIPING SYSTEMS:

— SCW —	COLD SOFT WATER
— — —	COLD WATER
— F —	FIRE PROTECTION
— — — —	HOT WATER
— — — — —	HOT WATER RETURN
— NPW —	NON-POTABLE WATER
— TW —	TEMPERED WATER
— RO —	REVERSE OSMOSIS WATER

GAS AND AIR PIPING SYSTEMS:

— A —	COMPRESSED AIR
— H2 —	HYDROGEN
— G —	NATURAL GAS
— N2 —	NITROGEN
— VAC —	VACUUM (AIR)

WASTE AND VENT SYSTEMS:

— CD —	CONDENSATE DRAIN
— CWV —	CLEARWATER VENT
— CWV —	CLEARWATER WASTE
— FM —	FORCE MAIN
— IW —	INDIRECT WASTE
— OD —	OVERFLOW DRAIN LINE
— ST —	STORM
— SSD —	SUBSOIL DRAIN LINE
— — —	UNDERFLOOR FOR WASTE OR SOIL, SUBSOIL, STORM & FORCE MAIN
— V —	VENT
— SAN —	WASTE OR SOIL LINE

SITE PIPING SYSTEMS:

— F —	FIRE MAIN
— FM —	FORCE MAIN
— SAN —	SANITARY SEWER
— ST —	STORM SEWER
— W —	WATER LINE

NOTE:
(E) PRIOR TO SYSTEM TYPE DENOTES EXISTING PIPING
(F) PRIOR TO SYSTEM TYPE DENOTES FUTURE PIPING

PIPE FITTINGS

	FLANGE		ELBOW DOWN
	UNION		ELBOW UP
	ANCHOR		TEE DOWN
	PIPE GUIDE		TEE UP
	ECCENTRIC REDUCER		PIPE CAP
	CONCENTRIC REDUCER		VALVE IN VERTICAL
	TEE BRANCH		DOUBLE WYE
	LINE CONTINUATION BREAK		WYE
	PLUMBING FIXTURE STOPS		WYE WITH VENT UP
	PIPELINE STRAINER		

DRAINS AND CLEANOUTS

	FLOOR DRAIN		FIXTURE WASTE TRAP
	FLOOR SINK		CLEANOUT
	HUB DRAIN		FLOOR CLEANOUT
	FLOOR SINK		GROUND CLEANOUT
			DOUBLE CLEANOUT

PIPING VALVES AND SPECIALTIES

	ANGLE VALVE		AIR VENT, AUTOMATIC
	BALANCING VALVE		AIR VENT, MANUAL
	BALL VALVE		BACKFLOW PREVENTER
	BUTTERFLY VALVE		CONSTANT FLOW REGULATOR
	CHECK VALVE		DEMOLITION OF PIPING, DEVICE, ETC.
	DIAPHRAGM VALVE		DIRECTION OF FLOW
	DRAIN VALVE		DIRECTION OF PITCH RISE (R) OR DROP (D)
	FLOAT OPERATED VALVE		DRAIN PLUG
	GAS SHUTOFF VALVE		EXPANSION JOINT
	GATE VALVE		FLEXIBLE CONNECTION
	GLOBE VALVE		FLOW SWITCH
	PLUG VALVE		FLOW SENSING DEVICE
	POST INDICATOR VALVE		GAS REGULATOR
	PRESSURE REDUCING VALVE		GAS OUTLET
	PRESSURE RELIEF VALVE		HOSE BIBB
	QUICK OPENING VALVE		PETE'S PLUG
	SHUTOFF VALVE		PRESSURE GAUGE
	SOLENOID VALVE		PRESSURE SWITCH
	TRIPLE DUTY VALVE		STEAM TRAP
	2-WAY CONTROL VALVE (VALVE BODY AS SPECIFIED)		THERMOMETER
	3-WAY MIXING VALVE		WALL HYDRANT
	4-WAY VALVE WITH ARROW INDICATING FAIL POSITION		WATER HAMMER ARRESTOR
	VALVE IN BOX		

PLUMBING MATERIALS

COLD WATER PIPING (UNDERGROUND)	COPPER TYPE "K"
COLD WATER PIPING (ABOVE GROUND)	COPPER TYPE "L"
HOT WATER PIPING	COPPER TYPE "L"
SANITARY SEWER (UNDERGROUND)	SCHEDULE 40 DWV PVC
SANITARY SEWER (ABOVE GROUND - PLENUM RETURN)	HUBLESS CAST IRON
SANITARY SEWER (ABOVE GROUND - DUCTED RETURN)	SCHEDULE 40 DWV PVC
SANITARY VENT (PLENUM RETURN)	HUBLESS CAST IRON
SANITARY VENT (DUCTED RETURN)	SCHEDULE 40 DWV PVC
STORM PIPING	SCHEDULE 40 DWV PVC
NATURAL GAS PIPING (UNDERGROUND)	THERMOPLASTIC POLYETHYLENE
NATURAL GAS PIPING (ABOVE GROUND)	GAS PRESSURE PIPE
	BLACK STEEL SCHEDULE 40

PLUMBING FIXTURES MUST MEET WATER SAVINGS STANDARDS AS REQUIRED BY ANSI, CITY CODE AND SPECIFICATIONS.

WATER CLOSET	2" VENT, 4" WASTE, 1-1/4" COLD WATER
URINAL	2" VENT, 3" WASTE, 1-1/4" COLD WATER
LAVATORY	2" VENT, 2" WASTE, 3/4" HOT & COLD WATER
SINK	2" VENT, 2" WASTE, 3/4" HOT & COLD WATER
KITCHEN SINK	2" VENT, 2" WASTE, 3/4" HOT & COLD WATER
DISH WASHER	WASTE TO K SINK, 3/4" HOT & COLD WATER
FLOOR DRAIN	2" VENT, 3" WASTE
MOP SINK	2" VENT, 3" WASTE, 3/4" HOT & COLD WATER
	MINIMUM PIPE SIZE TO TAIL PIECE IS 3/4"

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL COMPLY WITH ALL ADOPTED LOCAL, STATE, AND NATIONAL CODES.
- DO NOT SCALE THE DRAWINGS.
- FIELD VERIFY EXACT LOCATION OF ALL CONNECTION POINTS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL INSPECT SITE THOROUGHLY TO FAMILIARIZE THEMSELVES WITH THE AREA OF WORK. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTIONS PRIOR TO BID PRICING. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF EXISTING OR NEW CONDITIONS.
- PROVIDE BALL VALVES ON ALL BRANCH LINES FOR BUILDING ISOLATION WHETHER SHOWN OR NOT.
- OFFSET ALL PIPING AS REQUIRED TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL OR ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING WASTE, DIRECTION OF FLOW, DEPTH, ADEQUATE SLOPE AND INTEGRITY OF LINE PRIOR TO INSTALLATION.
- MAINTAIN A MINIMUM CLEARANCE OF 25 FEET BETWEEN ALL VENT PENETRATIONS AND AIR INTAKES.
- ALL WATER PIPING (ABOVE CEILING, IN WALLS AND BELOW SLAB, ETC.) SHALL BE INSULATED.

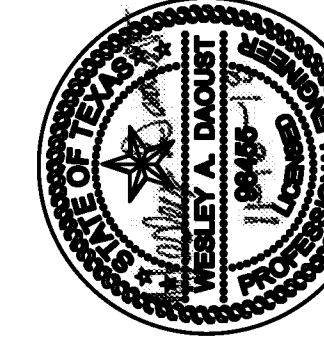
FIRE SPRINKLER GENERAL NOTES

- BUILDING IS TO BE PROTECTED BY AUTOMATIC FIRE SPRINKLER SYSTEM. FIRE SPRINKLER CONTRACTOR SHALL PROVIDE A FULL AND COMPLETE SYSTEM AS REQUIRED BY NFPA. SYSTEM IS TO PROVIDE FULL AND COMPLETE COVERAGE THROUGHOUT ENTIRE BUILDING AND INCLUDE THE OUTDOOR COVERED PATIO AREA WHERE BBQ GRILLE IS LOCATED - PER NFPA CHAPTER 13.

PRE-CONSTRUCTION CHECK

- THE PLUMBING CONTRACTOR SHALL PERFORM THE FOLLOWING PRE-CONSTRUCTION CHECK, AFTER THE AWARD OF CONTRACT, AND BEFORE BEGINNING CONSTRUCTION.
- TEST ALL EXISTING FIXTURES, EQUIPMENT, AND WATER HEATERS TO VERIFY ALL ITEMS ARE FULLY OPERATIONAL AND REQUIRE NO REPAIRS.
- THE CONTRACTOR SHALL NOTIFY THE BUILDING OWNER IN WRITING OF ANY DEFICIENCIES FOUND AND SHALL OBTAIN WRITTEN INSTRUCTIONS FROM THE BUILDING OWNER PRIOR TO BEGINNING CONSTRUCTION REGARDING ANY ACTION TO BE TAKEN. ITEMS NOT ADDRESSED IN THE PRE-CONSTRUCTION CHECK SHALL BE CORRECTED BY THE CONTRACTOR PRIOR TO COMPLETION OF CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.

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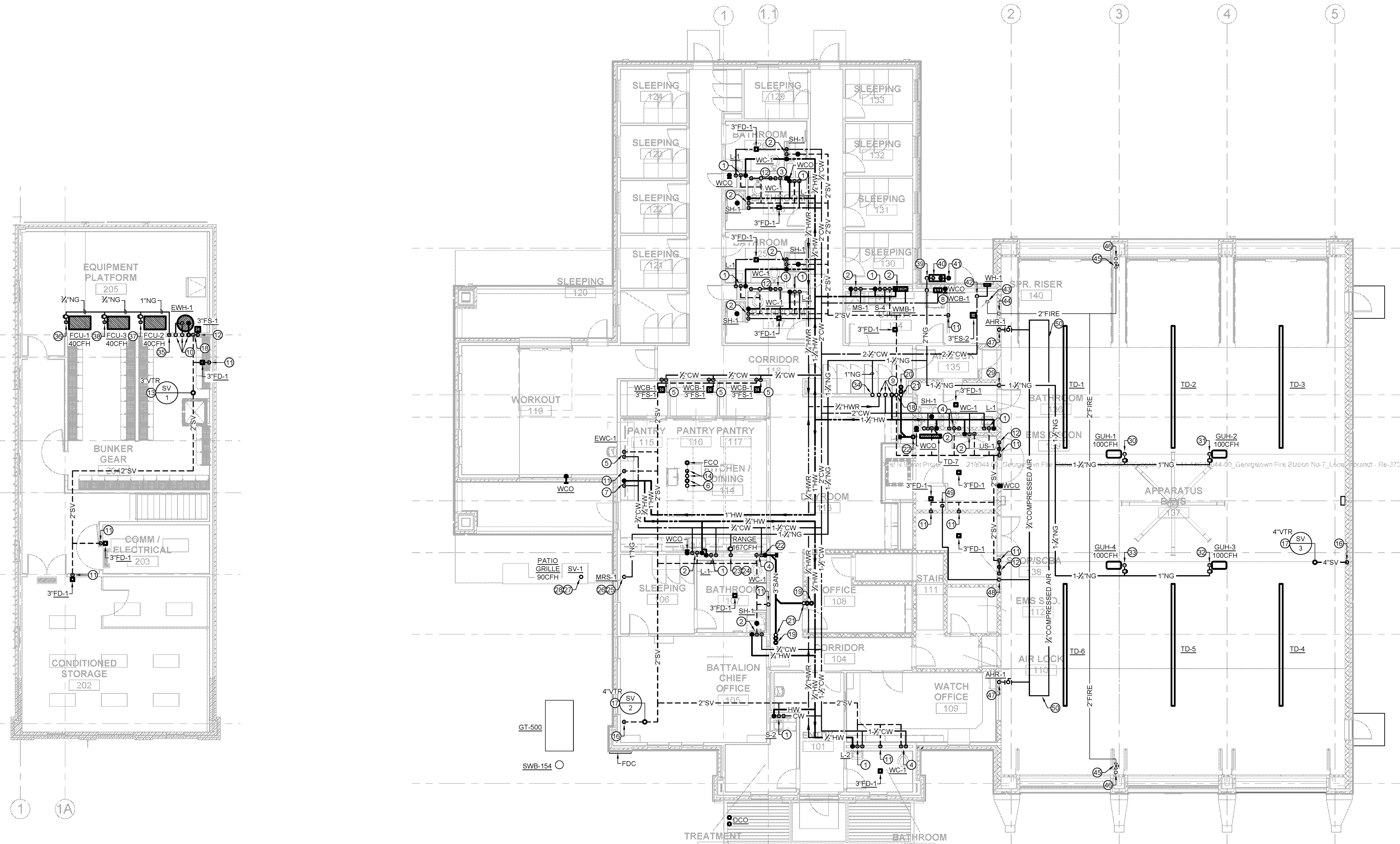
BROWN REYNOLDS WATFORD ARCHITECTS, INC.
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CITY OF GEORGETOWN
FIRE STATION No. 7
 2703 EAST STATE HIGHWAY 29
 GEORGETOWN, TX 78626

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PLUMBING SYMBOLS & ABBREVIATIONS



2 SECOND FLOOR PLAN-PLUMBING
1/8" = 1'-0"

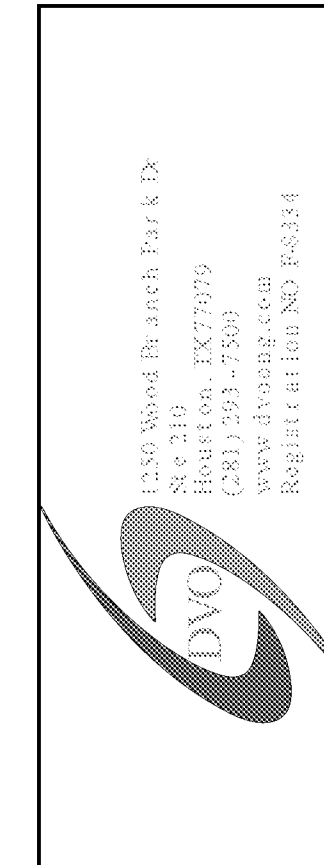
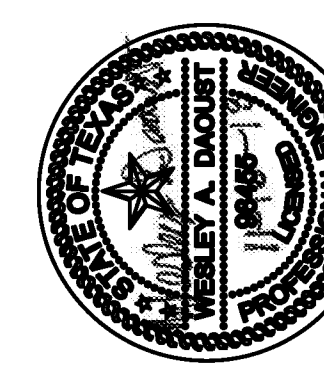
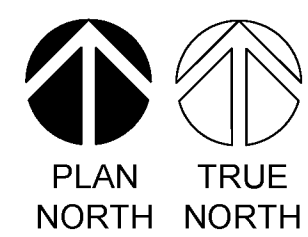
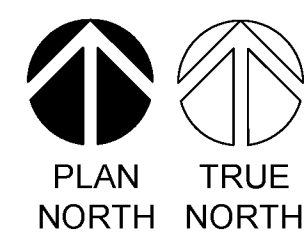
1 FIRST FLOOR PLAN-PLUMBING
1/8" = 1'-0"

GENERAL PLUMBING NOTES:

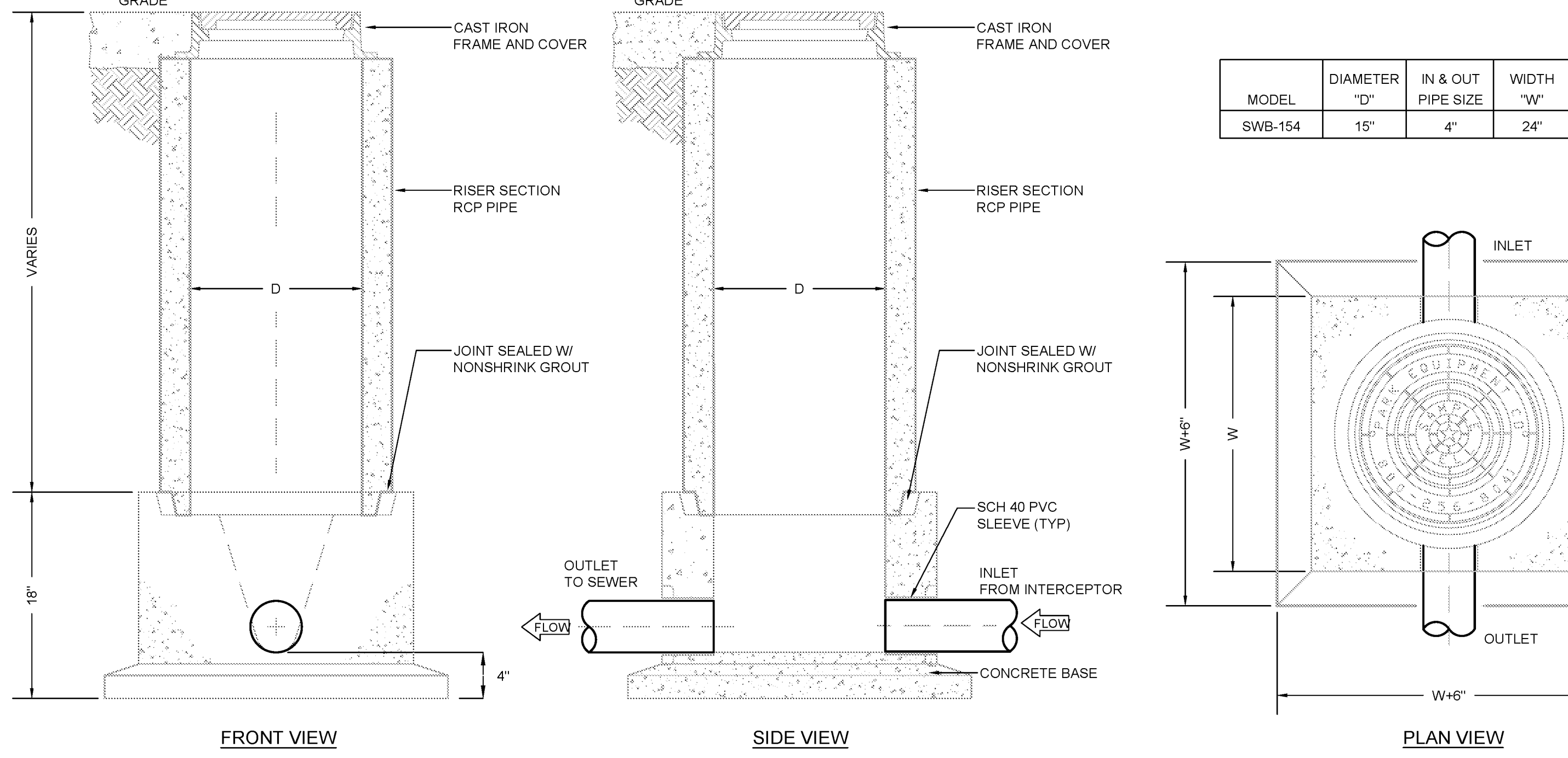
- A. REFER TO SHEET P0.0 FOR ADDITIONAL PLUMBING GENERAL NOTES.
- B. REFER TO SHEET P0.0 FOR ADDITIONAL FIRE PROTECTION GENERAL NOTES.
- C. VERIFY ALL DIMENSIONS AT JOBSITE.
- D. PLUMBING CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AND MAKE FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT.
- E. INSULATE ALL DOMESTIC WATER PIPING SUBJECTED TO FREEZING TEMPERATURE.
- F. INSULATE HOT WATER LINES WITH 1" MOLDED FIBERGLASS INSULATION.
- G. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT LOCATION OF FIXTURES, EQUIPMENT.
- H. PLUMBING CONTRACTOR SHALL COORDINATE ALL PIPING AND EQUIPMENT WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY PIPING OR EQUIPMENT.
- I. VENT PIPING TO BE 2" UNLESS OTHERWISE NOTED.
- J. VENT PENETRATIONS THROUGH ROOF TO HAVE CLEARANCE OF 10 FEET, MINIMUM, FROM ANY INTAKE FOR FRESH AIR.
- K. COORDINATE ALL WORK WITH OWNER OR REPRESENTATIVES.
- L. ALL PIPING SHALL BE RUN CONCEALED UNLESS OTHERWISE NOTED.
- M. ALL UNDERGROUND WATER LINES SHALL BE TYPE "K" COPPER TUBING WITH 1/2" ARMAFLEX INSULATION.
- N. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AFFECTING THIS WORK.
- O. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

KEYED NOTES:

- 1. 1/2" CW & HW DOWN. 2" VENT UP.
- 2. 3/4" CW & HW DOWN. 2" VENT UP.
- 3. 1-1/2" CW DOWN AND EXTEND THRU WALL. 2" VENT UP.
- 4. 1-1/2" CW DOWN. 2" VENT UP.
- 5. 1/2" CW DOWN. 2" VENT UP.
- 6. 1/2" CW & HW FROM BELOW.
- 7. 3/4" CW & HW DOWN.
- 8. 1/2" CW DOWN.
- 9. 1-1/2" CW UP. 1-1/2" HW FROM ABOVE. 1/2" HWR UP.
- 10. 1-1/2" CW FROM BELOW. 1-1/2" HW DOWN. 1/2" HWR FROM BELOW.
- 11. 2" VENT UP.
- 12. 2" VENT FROM BELOW.
- 13. 3" VENT UP TO VTR.
- 14. 2" VENT UP. 2" ISLAND VENT DOWN.
- 15. 4" VENT UP.
- 16. 4" VENT FROM BELOW.
- 17. 4" VENT UP TO VTR.
- 18. 3" VENT UP.
- 19. 3" SANITARY FROM FLOOR DRAIN ABOVE.
- 20. 3" SANITARY FROM FLOOR SINK ABOVE.
- 21. 3" SANITARY DOWN. 2" VENT UP.
- 22. 3" SANITARY DOWN.
- 23. 1" NATURAL GAS DOWN TO SERVE RANGE (167 CFH) MANUAL RESET SWITCH AND SOLENOID VALVE FOR KITCHEN RANGE PROVIDED BY ELECTRICAL CONTRACTOR. LOCATE SOLENOID VALVE IN WALL CABINET NEAR RANGE. COORDINATE LOCATION WITH ARCHITECT. PLUMBING AND ELECTRICAL CONTRACTORS TO COORDINATE FOR INSTALLATION REQUIREMENTS. PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.
- 24. ALARM ACTUATED SHUT OFF VALVE RESET SWITCH "M.R.S." - 6" ABOVE COUNTERTOP.
- 25. 1" NATURAL GAS DOWN.
- 26. MANUAL RESET SWITCH PROVIDED BY ELECTRICAL CONTRACTOR FOR GAS GRILLE. PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 27. 1" NATURAL GAS FROM BELOW TO SERVE PATIO GRILLE (90CFH).
- 28. SOLENOID VALVE PROVIDED BY ELECTRICAL CONTRACTOR FOR GAS GRILLE TO BE INSTALLED IN A RECESSED CABINET WITH FLUSH DOOR. DOOR TO OPEN TO PATIO/GRILLE SIDE. PLUMBING CONTRACTOR SHALL PROVIDE & INSTALL RECESSED CABINET FOR SOLENOID VALVE. PLUMBING AND ELECTRICAL CONTRACTORS TO COORDINATE FOR INSTALLATION REQUIREMENTS PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.
- 29. 1-1/2" NATURAL GAS UP @ 40Z.
- 30. 1" NATURAL GAS @ 40Z TO SERVE GUH-1 (100 CFH).
- 31. 1" NATURAL GAS @ 40Z TO SERVE GUH-2 (100 CFH).
- 32. 1" NATURAL GAS @ 40Z TO SERVE GUH-3 (100 CFH).
- 33. 1" NATURAL GAS @ 40Z TO SERVE GUH-4 (100 CFH).
- 34. 1" NATURAL GAS UP @ 40Z.
- 35. 1" NATURAL GAS FROM BELOW @ 40Z.
- 36. 1" NATURAL GAS @ 40Z TO SERVE ECU-1 (400CFH).
- 37. 1" NATURAL GAS @ 40Z TO SERVE ECU-2 (400CFH).
- 38. 1" NATURAL GAS @ 40Z TO SERVE ECU-3 (400CFH).
- 39. 2" NATURAL GAS UP @ 40Z.
- 40. PROPOSED NATURAL GAS METER. PROVIDE 5PSI. PRESSURE DOWNSTREAM OF METER. TOTAL LOAD = 777CFH.
- 41. NATURAL GAS LINE FROM BELOW.
- 42. 2-1/2" CW FROM BELOW.
- 43. 6" FIRE LINE FROM BELOW.
- 44. 2" FIRE LINE UP.
- 45. 2" VALVED CONNECTION FOR FIRE TRUCK FILL. COORDINATE EXACT REQUIREMENTS WITH FIRE DEPARTMENT. POTTER ROEMER #4065-B, #4625.
- 46. 2" FIRE LINE DOWN.
- 47. 1/2" COMPRESSED AIR LINE DOWN TO SERVE AHR-1. AIR REEL MOUNTED ON WALL 14'-0" A.F.F.
- 48. 1/2" COMPRESSED AIR LINE UP TO CEILING FROM AIR COMPRESSOR.
- 49. 1/2" COMPRESSED AIR LINE FROM AIR COMPRESSOR. AIR COMPRESSOR TO BE PROVIDED AND INSTALLED BY CONTRACTOR. COMPRESSOR EQUAL TO HUSKY #0801H, 3.7-HP, 60 GALLON AIR COMPRESSOR (240V 1-PHASE).
- 50. COMPRESSED AIR LINE MOUNTED ON CEILING AS HIGH AS POSSIBLE.



NO.	REVISION	DATE



10 SAMPLE WELL DETAIL
SCALE: NTS

ELECTRIC WATER HEATER SCHEDULE

MARK	GALLONS	KW/ELEMENTS	INPUT KW	OUTPUT TEMPERATURE	VOLTAGE AVAILABLE	MANUFACTURER MODEL NO.
EW-1	119 GAL.	4KW/EEL	24KW	140°	208V 3PH	A.O. SMITH #DRE-120-24

PUMP SCHEDULE

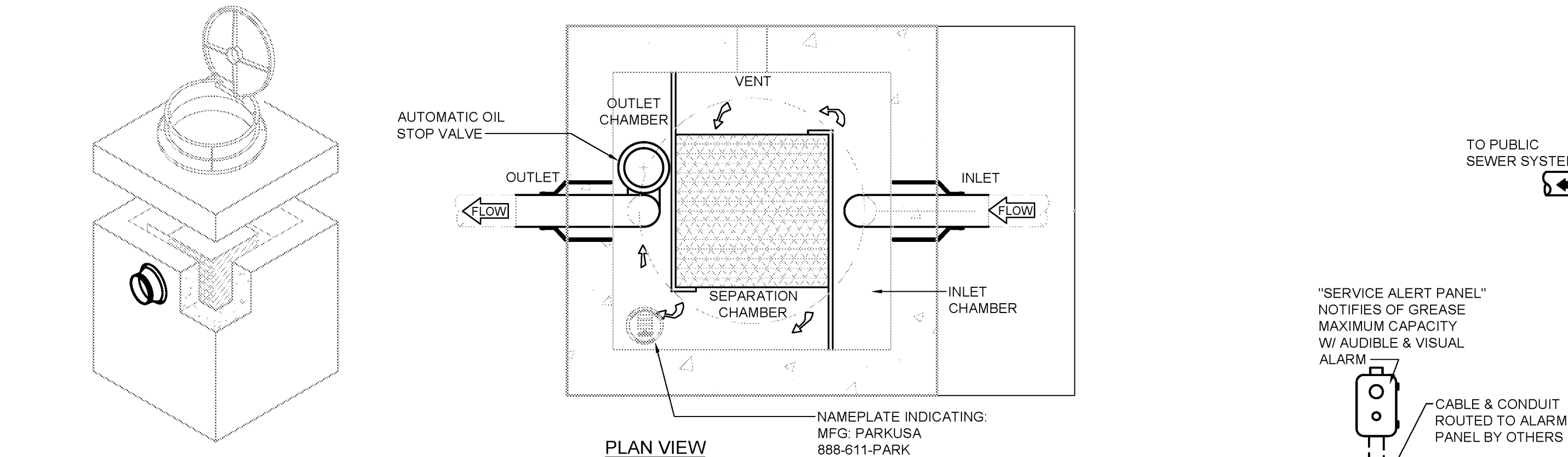
MARK	LOCATION	GPM FLOW	FEET HEAD	MOTOR (HP)	MOTOR (RPM)	MANUFACTURER MODEL NO.	REMARKS
RP-1	EQUIPMENT PLATFORM #205	1	1.7	VARIABLE	VARIABLE	ARMSTRONG ASTROTR #220SSJ	115V, 60HZ, 0.29A, 33W

SAND/OIL INTERCEPTOR SIZING CALCULATION

LOCATION	AREA (SQ. FT.)	CALCULATION (1 CU. FT./100 SQ. FT.)	CU. FT. TO GALLONS (CU. FT. * 7.48)
TD-1	728	7.3	54.5
TD-2	667	6.7	49.9
TD-3	728	7.3	54.5
TD-4	728	7.3	54.5
TD-5	667	6.7	49.9
TD-6	728	7.3	54.5
TOTAL GALLONS =			317.8
MINIMUM SAND/OIL INTERCEPTOR SIZE (MINIMUM 350 GAL) = 400 GAL			
PROVIDE PARK USA MODEL #CMP-400			
SIZING PER 2012 UPC SECTION 1017.2			

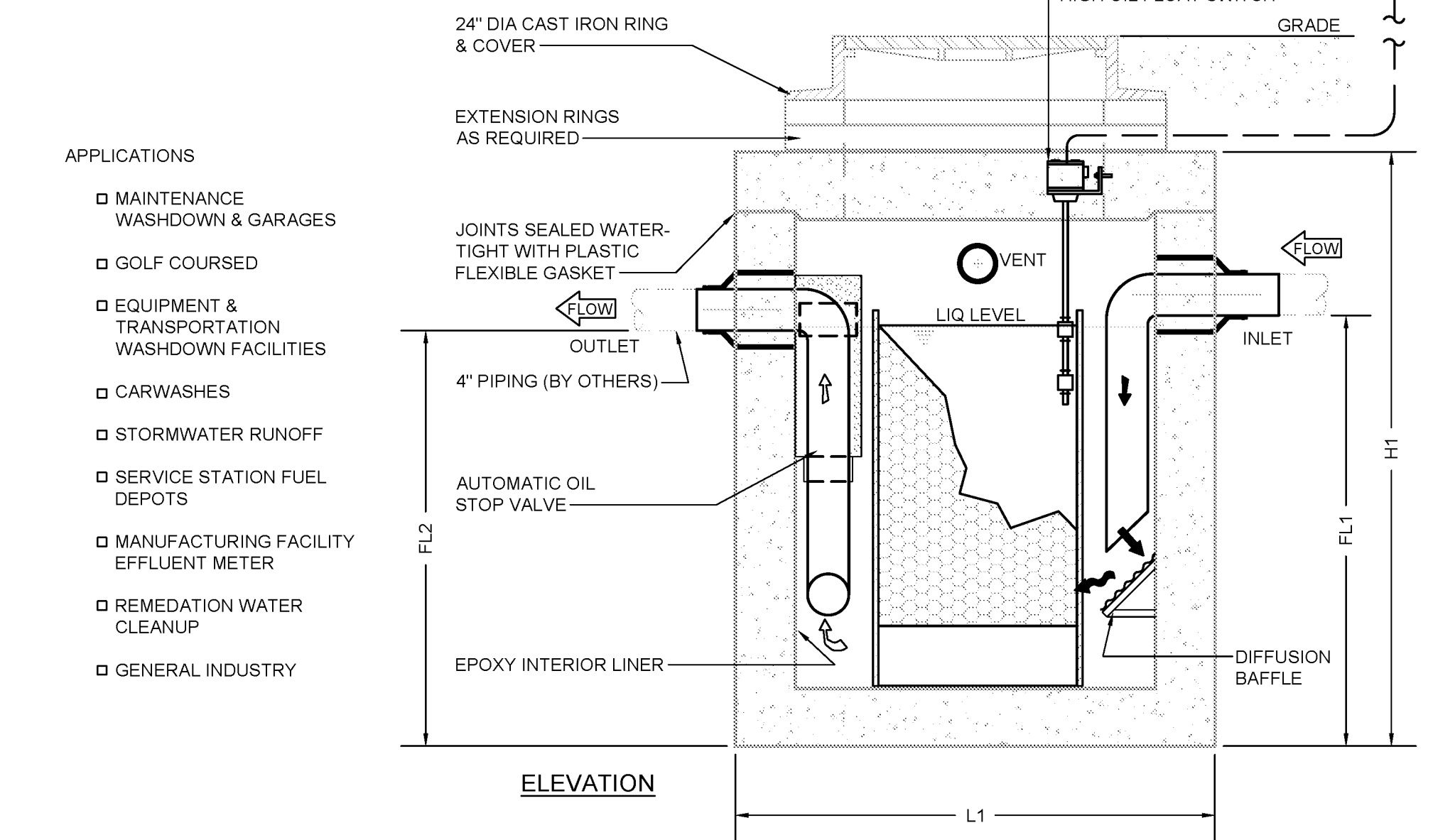
PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION / MANUFACTURER / MODEL	REMARKS
WC-1	WATER CLOSET	FIXTURE: AMERICAN STANDARD #3461 001MADERA FLOWISE, VITREOUS CHINA, ELONGATED BOWL, 1.28GPF, FLOOR MOUNTED, TOP SPRAY, ADA COMPLIANT. FLUSH VALVE: AMERICAN STANDARD #5047 121 002 MANUAL SEAT, AMERICAN STANDARD #5901.100 HEAVY DUTY OPEN FRONT LESS COVER.
L-1	LAVATORY	FIXTURE: AMERICAN STANDARD #0618 000 UNGLAZED RIM, UNDER MOUNT, VITROUS CHINA, OVERFLOW, ADA COMPLIANT. FAUCET: AMERICAN STANDARD #7353 841 TOWNSEND WIDESPREAD MIXING VALVE, BRADLEY #559-4000BY, BELOW DECK THERMOSTATIC MIXING VALVE WITH MOUNTING BRACKET #545-2456 TRIM: MCGUIRE #155WC, 1-1/4" CHROME PLATED CAST BRASS OFFSET TAILPIECE WITH FLAT PERFORATED GRID STRAINER, MCGUIRE #8872C CHROME PLATED CAST BRASS P-TRAP AND CLEANOUT PLUG WITH HEAVY BRASS SLIP NUTS, MCGUIRE #LFH2165LK LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS.
L-2	WALL HUNG LAVATORY	FIXTURE: AMERICAN STANDARD #0355 012, VITREOUS CHINA, FRONT OVERFLOW, FAUCET LEGGE, 4" CENTER, WALL MOUNT AT HANDICAP HEIGHT BATHROOM SINK FAUCET: AMERICAN STANDARD #7353 841 TOWNSEND WIDESPREAD MIXING VALVE, BRADLEY #559-4000BY, BELOW DECK THERMOSTATIC MIXING VALVE WITH MOUNTING BRACKET #545-2456 TRIM: MCGUIRE #155WC, 1-1/4" CHROME PLATED CAST BRASS OFFSET TAILPIECE WITH FLAT PERFORATED GRID STRAINER, MCGUIRE #8872C CHROME PLATED CAST BRASS P-TRAP AND CLEANOUT PLUG WITH HEAVY BRASS SLIP NUTS, MCGUIRE #LFH2165LK LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS CARRIER: JAY R. SMITH #0700 SERIES, FLOOR MOUNT WITH CONCEALED ARM SUPPORTS
S-1	KITCHEN SINK - TWO COMPARTMENT	FIXTURE: BLANCO #516217, 48" X 18" X 10", DOUBLE BOWL, UNDER MOUNT, 18 GAUGE, TYPE 304 STAINLESS STEEL, REAR CENTER DRAIN PLACEMENT FAUCET: AMERICAN STANDARD #4433 350 SEMI-PROFESSIONAL KITCHEN FAUCET, ADA COMPLIANT. TRIM: MCGUIRE #LFH2165LK LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS
S-2	SINK - SINGLE COMPARTMENT	FIXTURE: BLANCO #442079, 25" X 18" X 5-1/2", SINGLE BOWL, UNDER MOUNT, 18 GAUGE, 304 STAINLESS STEEL, REAR CENTER DRAIN PLACEMENT, ADA COMPLIANT. FAUCET: AMERICAN STANDARD #542 170 WIDESPREAD LAVATORY, 5" GOOSENECK SPOUT, 4" LEVER HANDLES, 1.5 GPM, 8" CENTERS, CAST BRASS MATERIAL, 5" SPOUT REACH, ADA COMPLIANT. TRIM: MCGUIRE #LFH2165LK LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS
S-3	SINK - SINGLE COMPARTMENT	FIXTURE: BLANCO #442079, 25" X 18" X 5-1/2", SINGLE BOWL, UNDER MOUNT, 18 GAUGE, 304 STAINLESS STEEL, REAR CENTER DRAIN PLACEMENT, ADA COMPLIANT. FAUCET: AMERICAN STANDARD #4433 350 SEMI-PROFESSIONAL KITCHEN FAUCET, ADA COMPLIANT. TRIM: MCGUIRE #LFH2165LK LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS
S-4	SINK - SINGLE COMPARTMENT	FIXTURE: BLANCO #442079, 25" X 18" X 5-1/2", SINGLE BOWL, UNDER MOUNT, 18 GAUGE, 304 STAINLESS STEEL, REAR CENTER DRAIN PLACEMENT, ADA COMPLIANT. FAUCET: AMERICAN STANDARD #542 170 WIDESPREAD LAVATORY, 5" GOOSENECK SPOUT, 4" LEVER HANDLES, 1.5 GPM, 8" CENTERS, CAST BRASS MATERIAL, 5" SPOUT REACH, ADA COMPLIANT. TRIM: MCGUIRE #LFH2165LK LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS
MS-1	MOP SINK	FIXTURE: MUSTEE #63M, 24"D X 24"W X 10"H, MOLDED FROM HIGH IMPACT RESISTANT DURASTONE STRUCTURAL FIBERGLASS, ELEVATED, SELF-DRAINING SHELF AND REMOVABLE STRAINER, INTEGRAL, MOLDED-IN DRAIN FOR CONNECTION TO ABS, PVC OR CAST IRON WOP SERVICE BASIN. FAUCET: MUSTEE #63 600A SERVICE FAUCET ACCESSORIES: MUSTEE #65 700 HOSE AND HOSE HOLDER, 65 600 MOP HANGER, HIGH IMPACT-RESISTANT VINYL DRAIN GUARDS AND MODEL #67 2424 TWO PANELS & BRACKET FOR 24" X 24" CORNER DURAGUARD WALL GUARDS.
EW-C-1	ELECTRIC WATER COOLER (ADA)	FIXTURE: ELKAY #LZ58WSLK, LIGHT GRAY GRANITE, 8GPH, 115V, 6 FLA, WALL MOUNT, ADA COMPLIANT. TRIM: MCGUIRE #8872C CHROME PLATED CAST BRASS P-TRAP WITH HEAVY BRASS SLIP NUTS, MCGUIRE #LFH2165LK LOOSE KEY ANGLE STOP WITH CHROME PLATED STEEL ESCUTCHEON AND CHROME PLATED COPPER RISER
WMB-1	WASHING MACHINE CONNECTION BOX	FIXTURE: GUY GRAY #MB1 SERIES, 20 GA STEEL BOX WITH POWDER COAT AND 1/4 TURN VALVE
WCB-1	WATER CONNECTION BOX	FIXTURE: GUY GRAY #MB1 SERIES, 20 GA STEEL BOX WITH POWDER COAT AND 1/4 TURN VALVE
FD-1	FLOOR DRAIN	FIXTURE: JAY R. SMITH #2005-07-NB, COATED CAST IRON BODY, TWO PIECE BODY WITH DRAINAGE FLANGE, INVERTIBLE NON-PUNCTURING FLASHING COLLAR, SEEPAGE HOLES, BOTTOM OUTLET AND ADJUSTABLE 7" ROUND NICKEL BRONZE STRAINER
FS-1	FLOOR SINK - HALF GRATE	FIXTURE: ZURN #Z-1900-P-2-23, 12" X 12" X 6" CAST IRON BODY FLOOR SINK WITH 1/2" GRATE, ALUMINUM BUCKET AND TRAP PRIMER CONNECTION.
FS-2	FLOOR SINK - FULL GRATE	FIXTURE: JAY R. SMITH #3141-C-12, ACID RESISTANT COATED CAST IRON BODY FLOOR SINK WITH BOTTOM OUTLET, FLASHING CLAMP, WITH 12" SQUARE ACID RESISTANT COATED CAST IRON 1/2 GRATE AND SEDIMENT BUCKET.
PF-1	POT FILLER	FAUCET: ELKAY #LKAV4091, LEVER HANDLES, 4.0 GPM, WALL MOUNT, SINGLE FAUCET HOLE, BRASS MATERIAL, ADA COMPLIANT
SH-1	SHOWER (ADA)	FIXTURE: KOHLER #K-9386 ARCHER, 36" X 36" ACRYLIC SHOWER BASE, INTEGRAL FLANGE, CENTER DRAIN, REMOVABLE DRAIN COVER, ONE-PIECE CONSTRUCTION DRAIN: JAY R. SMITH #220 10, REFER TO FLOOR PLANS FOR FLOOR DRAIN DESIGNATION SHOWER VALVE AND HEAD: AMERICAN STANDARD #7353 507 TOWNSEND SHOWER ONLY TRIM KIT WITH R111 VALVE BODY, 1.8 GPM, ADA COMPLIANT
TD-1 - TD-6	TRENCH DRAIN	FIXTURE: ZURN #Z806, WIDE REVEAL FIBER REINFORCED POLYMER TRENCH DRAIN SYSTEM, SHALL HAVE A POSITIVE MECHANICAL CONNECTION BETWEEN CHANNEL SECTIONS. SHALL BE PROVIDED WITH STANDARD DGC GRATES THAT LOCK DOWN TO FRAME. WIDE REVEAL DUCTILE IRON SLOTTED GRATE CONFORMING TO ASTM SPECIFICATION A536-84
TD-7	TRENCH DRAIN	FIXTURE: JAY R. SMITH #6665, STAINLESS STEEL TRENCH DRAIN CHANNELS SHALL BE 39 3/8" LONG, 6 3/8" WIDE, AND HAVE A 4" WIDE THROAT WITH BOLTING END PLATES. THE MODULAR CHANNEL SECTIONS SHALL BE MADE OF 16-GAUGE TYPE 304 STAINLESS STEEL
MRS-1	MANUAL RESET SWITCH	MANUAL RESET SWITCH FOR GAS: LAMB INDUSTRIES (E)SWITCH KJ/D7 SERIES, NORMALLY CLOSED, PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY PLUMBING AND ELECTRICAL CONTRACTOR
SV-1	SOLENOID VALVE	SOLENOID SHUT-OFF VALVE: SNAP-TITE 230-FV-BNA-AMGI, PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY PLUMBING CONTRACTOR COORDINATE WITH ELECTRICAL CONTRACTOR
TE-1	TRUCK FILL	POTTER ROEMER # 4065-B, #4625, CAST BRASS VALVE WITH RED NAD WHEEL, FEMALE N P T INLET X MALE HOSE THREAD OUTLET 300PSI
WH-1	WALL HYDRANT - NON FREEZE	FIXTURE: J.R. SMITH #5509QT, BRONZE NICKEL PLATED, QUARTER TURN SELF DRAINING, NON-FREEZE, HOSE CONNECTION, INTEGRAL VACUUM BREAKER, T-HANDLE KEY AND STAINLESS STEEL BOX, W/ FULL 180°COVEROPENING
US-1	UTILITY SINK	FIXTURE: CALIFORNIA STAINLESS MFG COVED CORNERED SINKS - SERIES 700, 16 GAUGE, TYPE 316 STAINLESS STEEL, 8" BACKSPASH, REAR CORNER DRAIN PLACEMENT, ADA COMPLIANT. FAUCET: ELKAY #LK943C TWO HANDLE WALL MOUNT PRE-RINSE COMMERCIAL FAUCET, 3.2 GPM, SOLID BRASS WITH CHROME FINISH, ADA COMPLIANT. TRIM: MCGUIRE #LFH2165LK LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS.
AHR-1	AIR HOSE REEL	CORXELLES #EZ-PLP-350 AUTO REWIND EASILY WRAPS, STORES AND PROTECT HOSE, HEAVY GAUGE 1/4" STEEL BASE & SUPPORT POST, FACTORY-MATCHED CARTRIDGE-STYLE SPRING MOTOR, BRASS NTP SWIVEL INLET MACHINED FROM SOLID 1" SOLID STEEL AXLE WITH 1" LUBRICATED PRECISION BEARINGS, GUIDE ARM ADJUSTED TO WALL, FLOOR AND OVERHEAD POSITION, MULTI-POSITION LOCK RATCHET SECURES HOSE AT DESIRED LENGTH NON-CORROSIVE STAINLESS STEEL SPRING, PAWL & ZINC PLATED, LOW PRESSURE HOSE REEL, OPERATED AT PRESSURE 300 PSI, 50 FEET 3/8" INSIDE DIAMETER HOSE, 3/8" THREADED NOZZLE PISTOL.

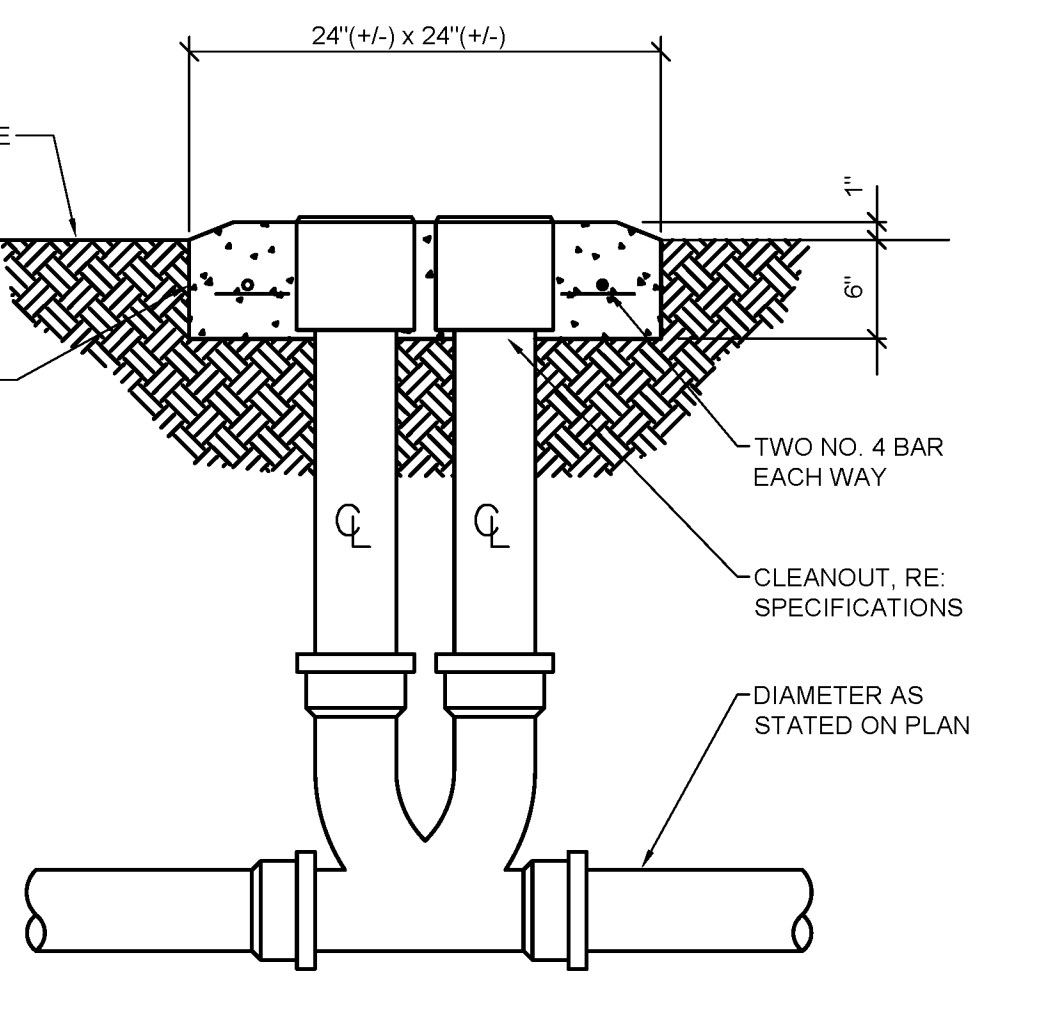


SAND-OIL INTERCEPTOR SCHEDULE

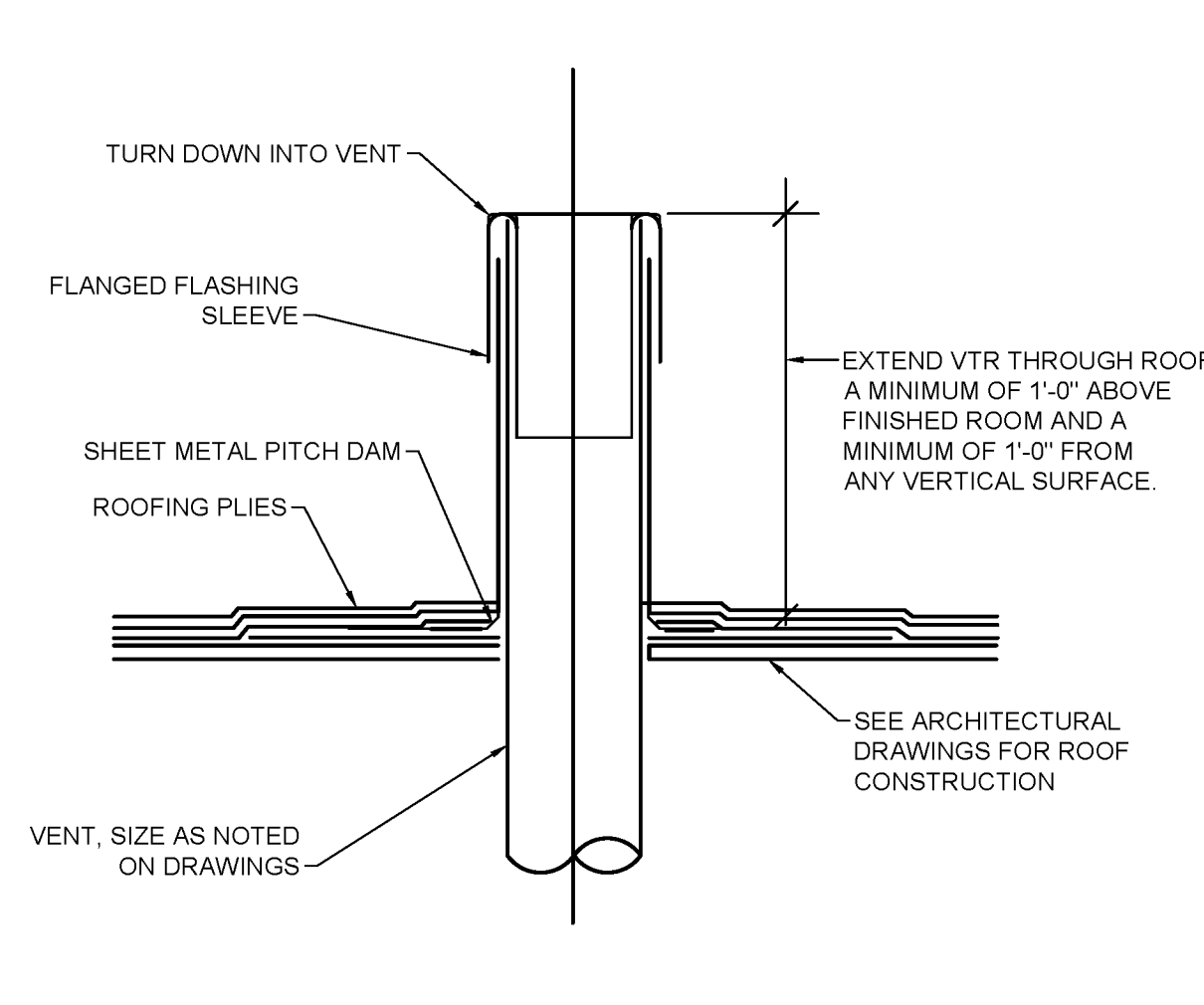
MODEL NO.	CAPACITY U.S. GAL.	OIL CAP. U.S. (GAL)	FLOW RATE (GPM)	EMPTY WT (LBS)	LENGTH L1	WIDTH W1	HEIGHT H1	INLET FL1	OUTLET FL2
CMP-400	400	200	40	9,200	60"	60"	54"	45"	42"



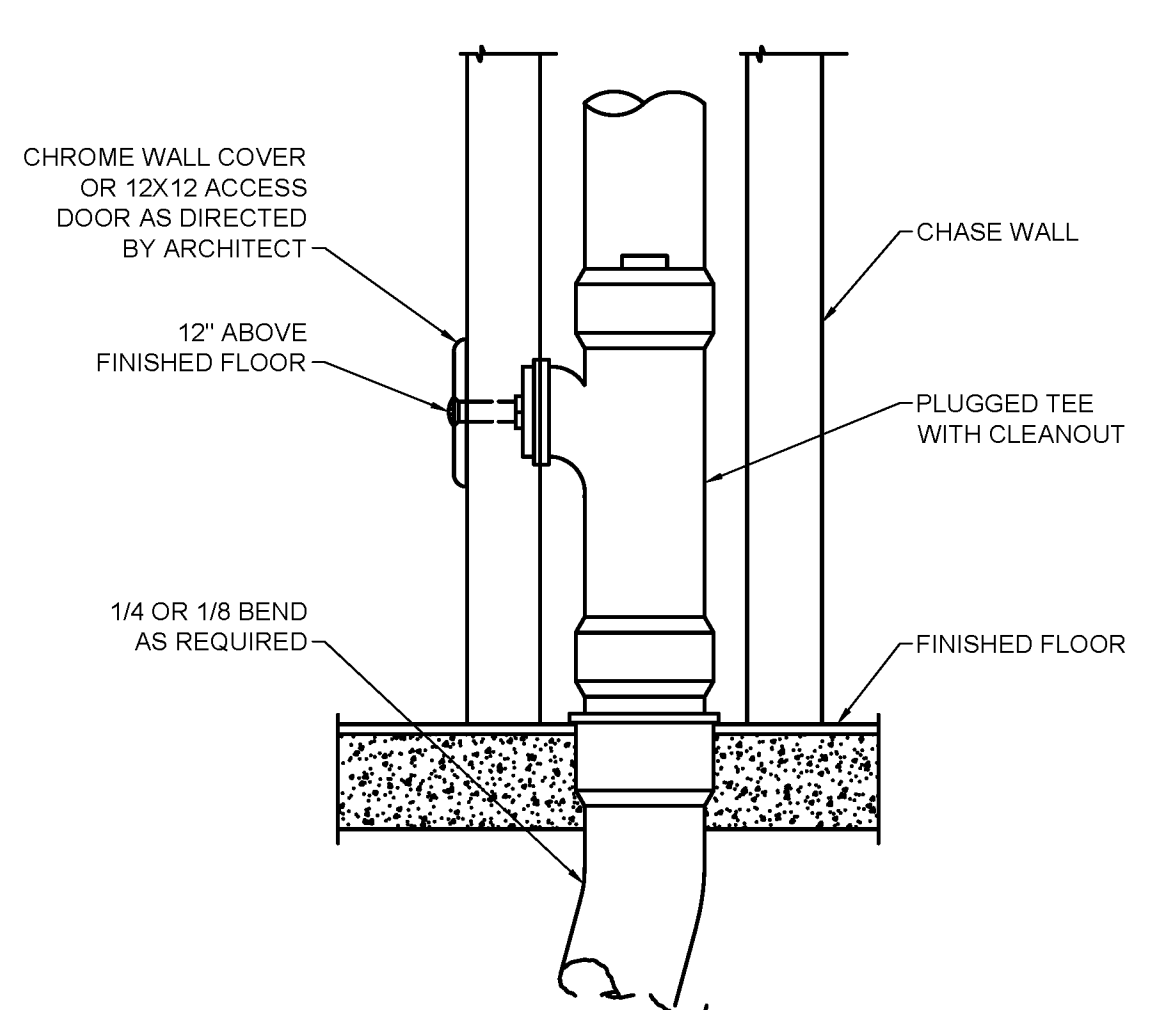
09 SAND/OIL INTERCEPTOR DETAIL
SCALE: NTS



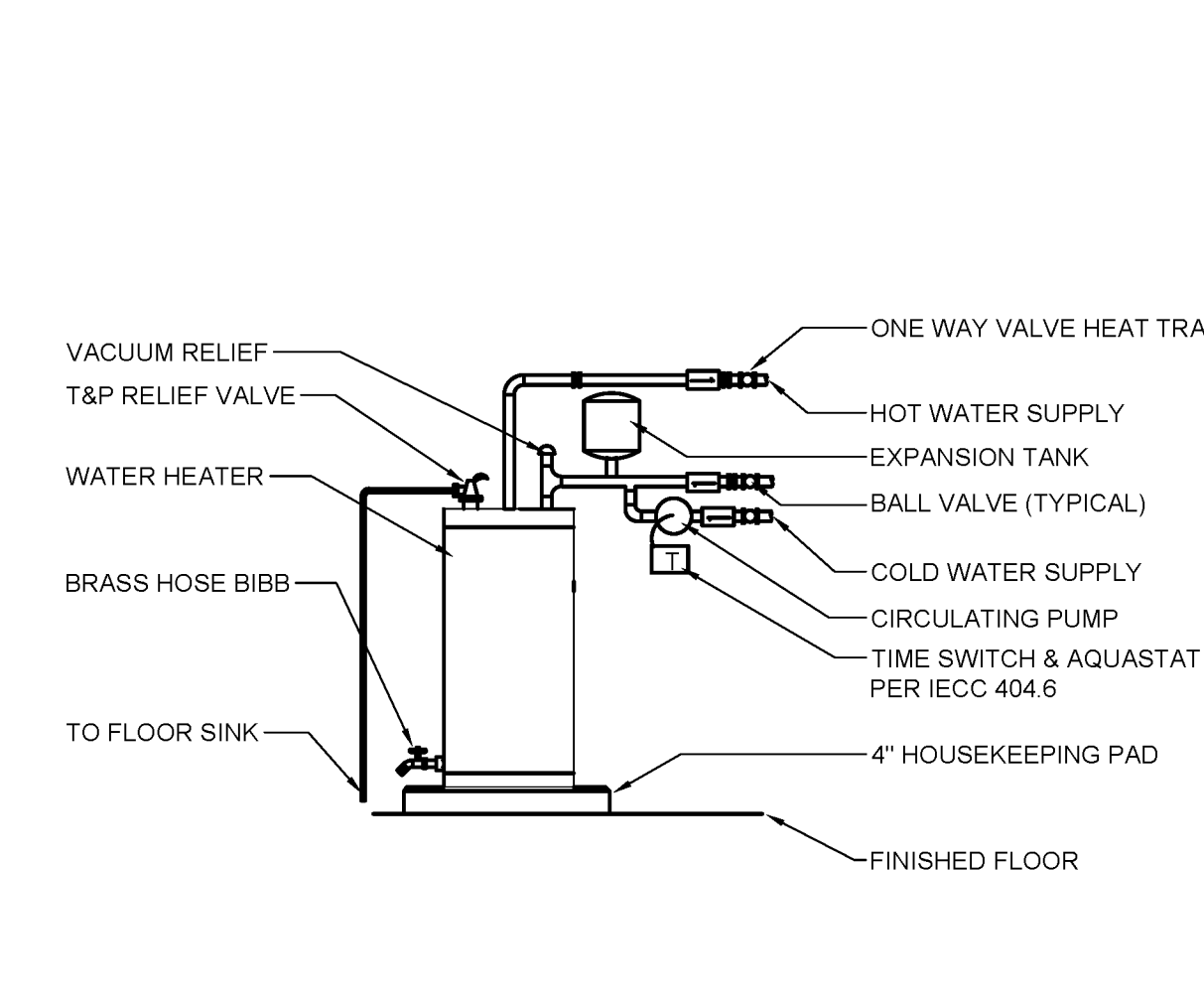
06 TWO WAY CLEANOUT DETAIL
SCALE: NTS



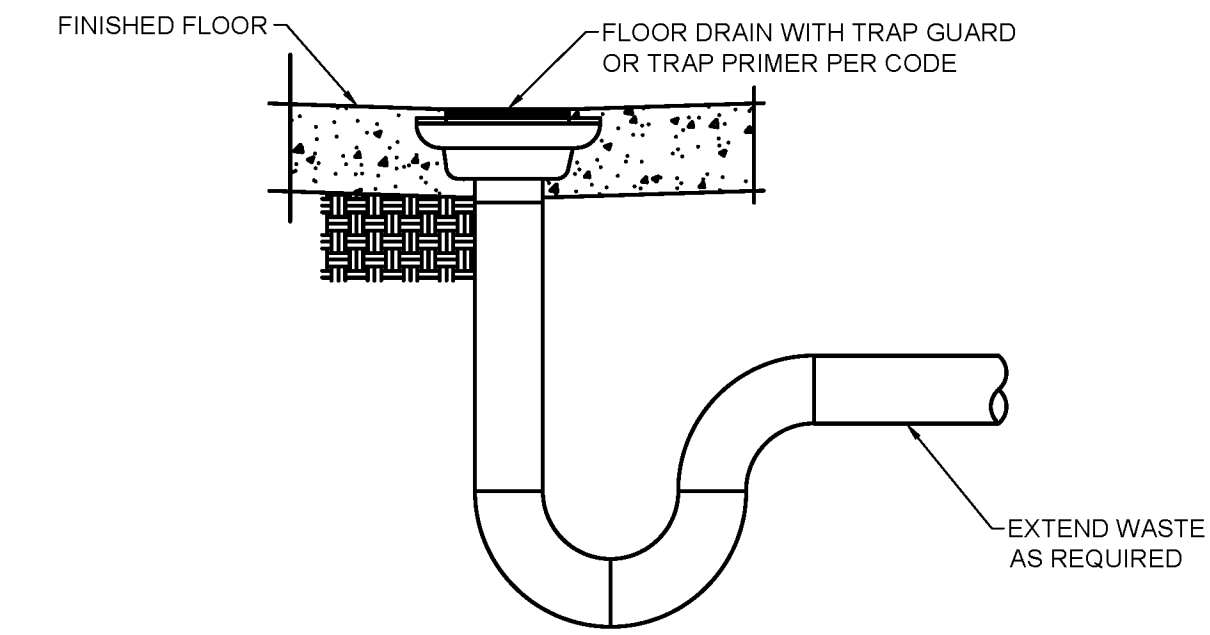
05 VENT THRU ROOF DETAIL
SCALE: NTS



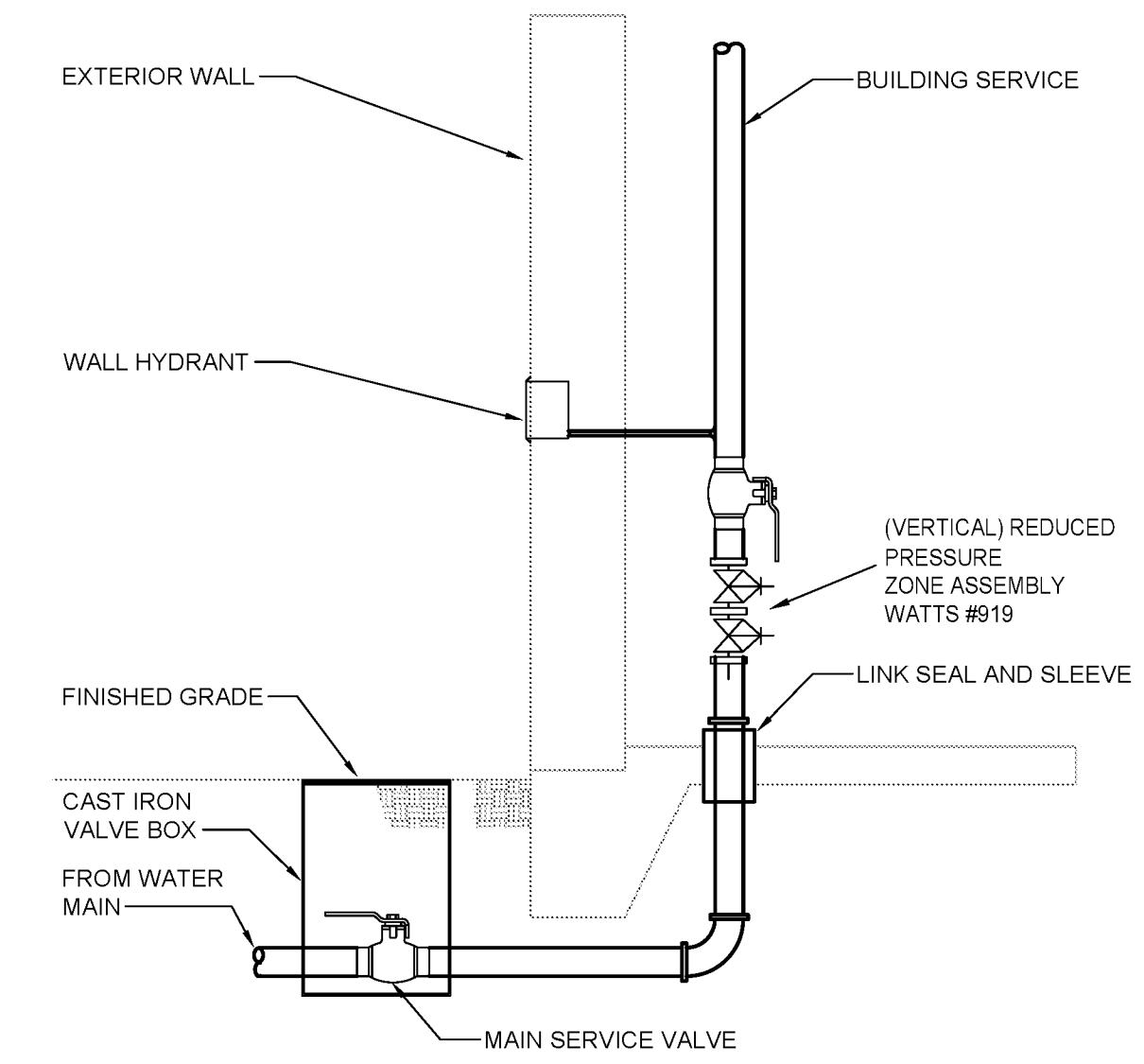
04 WALL CLEANOUT DETAIL
SCALE: NTS



03 ELECTRIC WATER HEATER DETAIL
SCALE: NTS



07 FLOOR DRAIN DETAIL
SCALE: NTS

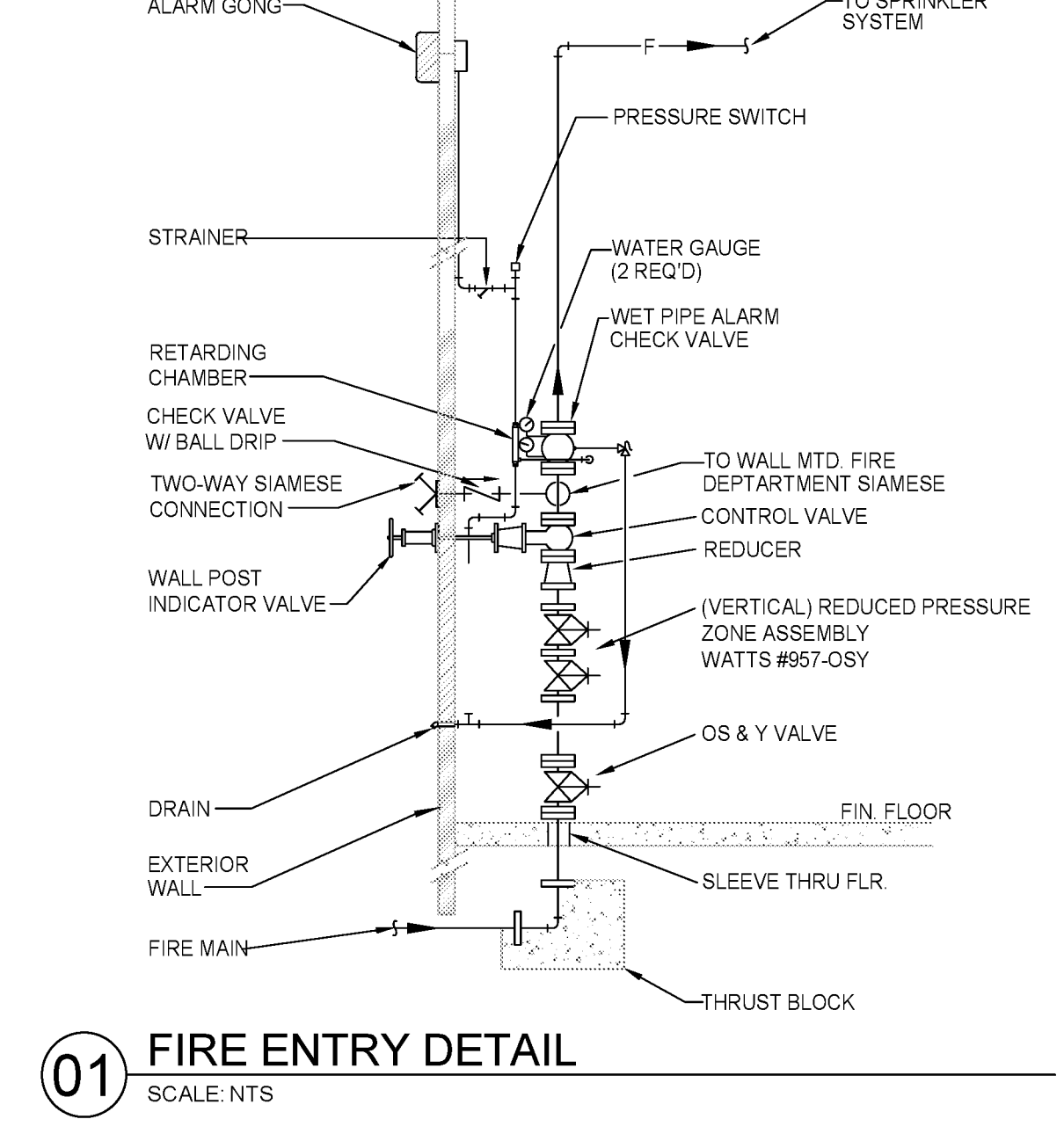


02 COLD WATER SERVICE ENTRY DETAIL
SCALE: NTS

SHOCK ARRESTOR SCHEDULE

PIPE SIZE	FIXTURE UNITS
1/2"	1-11
3/4"	12-32
1"	33-60
1-1/4"	61-113
1-1/2"	114-154
2"	155-320

01 FIRE ENTRY DETAIL
SCALE: NTS



01 FIRE ENTRY DETAIL
SCALE: NTS

GREASE INTERCEPTOR SIZING CALCULATION

BASE ON DRAINAGE FIXTURE UNITS

FIXTURE TYPE	DFU	QUANTITY	TOTAL DFUS
KITCHEN SINK	3	2	6
TOTAL DFUS =			6

MINIMUM GREASE INTERCEPTOR SIZE (TABLE 1014.3.6) = 500 GALLONS
PROVIDE PARK USA MODEL #GT-500

08 GREASE INTERCEPTOR DETAIL
SCALE: NTS

GREASE INTERCEPTOR SCHEDULE

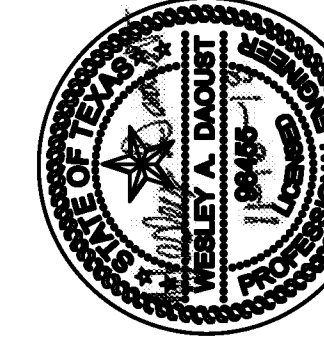
MODEL NO.	CAPACITY U.S. GAL.	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
GT-500	500	1,200	9,500	7'-10"	4'-4"	4'-6"	3'-3"	3'-0"

BROWN REYNOLDS WATFORD ARCHITECTS
 2700 EARL BUDGER FERRY SOUTH
 SUITE 4000
 HOUSTON, TEXAS 77045
 713.694.1791
 WWW.BRWARCH.COM

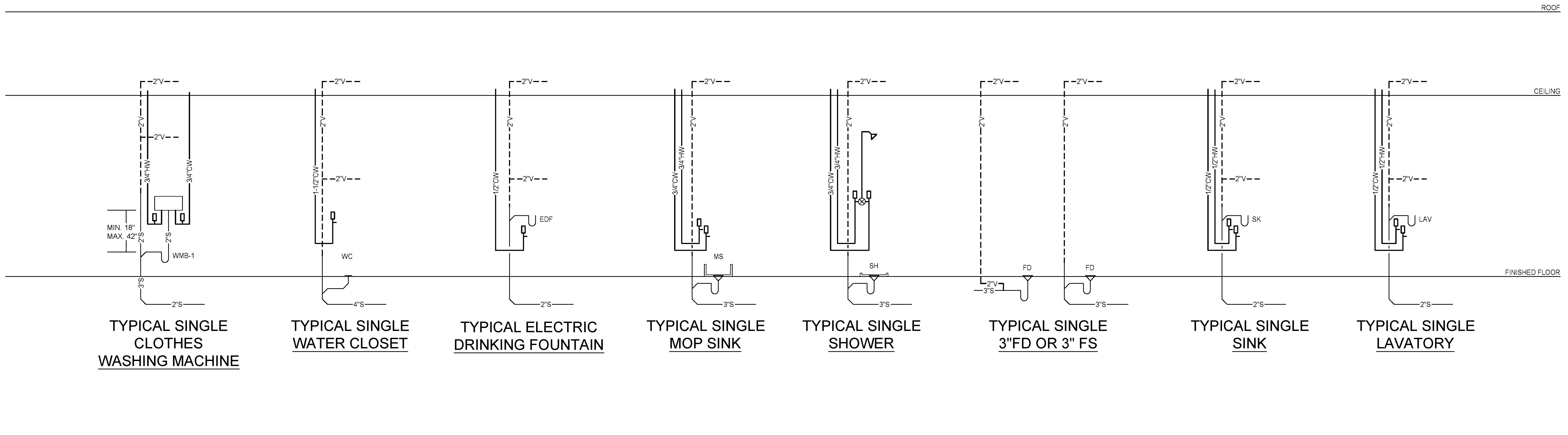
CITY OF GEORGETOWN
 FIRE STATION No. 7
 2703 EAST STATE HIGHWAY 29
 GEORGETOWN, TX 78626

DATE: 11/16/2018
 DRAWN BY: EIG
 CHECKED BY: W.D.
 PROJECT NUMBER: 218044.00

PLUMBING SCHEDULES & DETAILS
P2.1

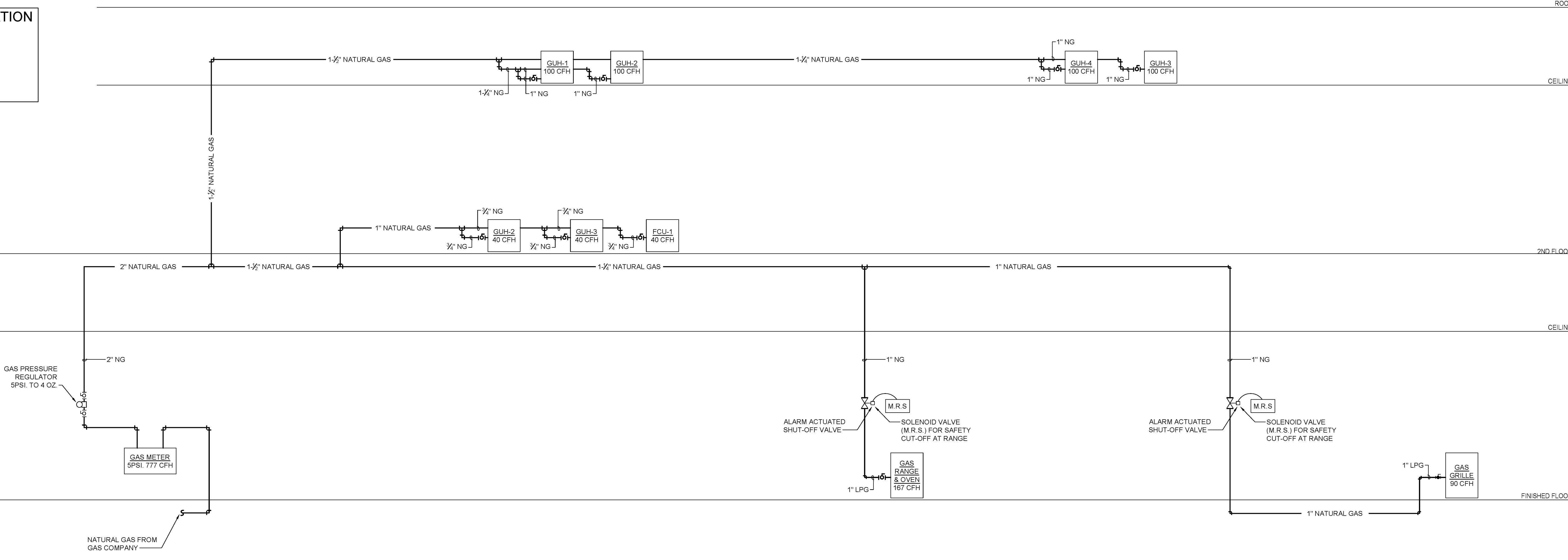


NO.	REVISION	DATE



02 PLUMBING RISER DIAGRAM
SCALE: NTS

NATURAL GAS PIPE SIZING CALCULATION
4 OZ. PRESSURE
LONGEST MEASURED LENGTH = 121'
ADD 20% FOR FRICTION AND FITTINGS = 24'
TOTAL DEVELOPED LENGTH = 145'
GAS PIPING SIZED BASED ON 150' COLUMN
TABLE 1216.2(27) 2012 UPC



01 NATURAL GAS RISER DIAGRAM
SCALE: NTS

ELECTRICAL SYMBOLS AND ABBREVIATIONS

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED HERE ARE USED IN THE DRAWINGS AND MAY NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE DRAWINGS.

ELECTRICAL ABBREVIATIONS

1P	ONE POLE
2P	TWO POLE
3P	THREE POLE
4P	FOUR POLE
1P1W	ONE POLE, ONE WIRE
1P2W	ONE POLE, TWO WIRE
2P2W	TWO POLE, TWO WIRE
2P3W	TWO POLE, THREE WIRE
3P2W	THREE POLE, TWO WIRE
3P3W	THREE POLE, THREE WIRE
3P4W	THREE POLE, FOUR WIRE
4P4W	FOUR POLE, FOUR WIRE
A	AMPERE
AC	ALTERNATING CURRENT
AMP	AMP FRAME
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AS	AMP SWITCH
AT	AMP TRIP
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
B	PEDESTAL MOUNTED ON BENCH TOP
BF	BELOW FLOOR
BLDG	BUILDING
C	CONDUIT
CAT	CATALOG
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING MOUNTED
CT	CURRENT TRANSFORMER
CU	COPPER
CL	CENTERLINE
D	DEDICATED DEVICE
DC	DIRECT CURRENT
Δ	DELTA
DISC	DISCONNECT
DWG	DRAWING
EM	EMERGENCY
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRIC METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EX	EXISTING
FLA	FULL LOAD AMPS
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFPE	GROUND FAULT PROTECTION EQUIPMENT
GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ (cycles) PER SECOND
JB	JUNCTION BOX
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
LP	LIGHTING PANELBOARD
LS	LIMIT SWITCH
LTG	LIGHTING
LV	LOW VOLTAGE
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
#	NUMBER
NTS	NOT TO SCALE
OH	OH
P	POLE
PB	PULL BOX
PC	PLUMBING SYSTEM CONTRACTOR
PH	PHASE
PNL	PANELBOARD
PR	PAIR
PRI	PRIMARY
PVC	POLYVINYL CHLORIDE CONDUIT
R	RELAY
REC	RECESSED
RSC	RIGID STEEL CONDUIT
SEC	SECONDARY
SN	SOLID NEUTRAL
SP	SPARE
SS	STAINLESS STEEL
ST	SHUNT TRIP
STP	SHIELDED TWISTED PAIR
SUSP	SUSPENDED
SW	SWITCH
SWBD	SWITCHBOARD
T	TAMPER RESISTANT SAFETY RECEPTACLE
TC	TELEPHONE CABINET
TCI	TELECOMMUNICATIONS CABLING INSTALLER
TEL/DATA	TELEPHONE/DATA
TEL	TELEPHONE
TYP	TYPICAL
UG	UNDERGROUND
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
UOI	UNLESS OTHERWISE INDICATED
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER
ZAM	ZONE ADAPTER MODULE
*72	MOUNTING UNITS TO CENTERLINE ABOVE FINISHED FLOOR OR GRADE

LIGHTING AND CONTROLS

	○	SURFACE MOUNTED LIGHT FIXTURES
	○	RECESS MOUNTED LIGHT FIXTURES
	○	WALL MOUNTED LIGHT FIXTURES
	○	SUSPENDED, PENDENT, CHAIN STEM, OR CABLE HUNG LIGHT FIXTURES
	■	SHADING INDICATES FIXTURE FULLY WIRED TO EMERGENCY OR NIGHT LIGHTING CIRCUIT
	▨	PARTIAL SHADING INDICATES FIXTURE PARTIALLY WIRED TO EMERGENCY OR NIGHT LIGHTING CIRCUIT. REFER TO GENERAL NOTE #17.
	—|—	STRIP OR UNDER CABINET LIGHT FIXTURE
	⊗	SINGLE HEAD SPOT LIGHT OR FLOOD LIGHT FIXTURE
	⊗	DOUBLE HEAD SPOT LIGHT OR FLOOD LIGHT FIXTURE
	⊗	EXIT LIGHT FIXTURE - ARROWS AND FACE AS INDICATED ON DRAWINGS
	—v—v—v—	LIGHTING TRACK - LENGTH AS INDICATED ON DRAWING NUMBER OF FIXTURES AS INDICATED ON DRAWING AND/OR LIGHT FIXTURE SCHEDULE
	⊗	EMERGENCY BATTERY REMOTE LIGHTING HEADS
	⊗	EMERGENCY BATTERY UNIT WITH LIGHTING HEADS
	⊗	SURFACE MOUNTED ACCENT LIGHT
	⊗	RECESS MOUNTED ACCENT LIGHT
	⊗	SINGLE POLE SWITCH - MOUNT 4" AFF UNLESS OTHERWISE NOTED
	⊗	SWITCH DESIGNATION SWITCH TYPE (2) DOUBLE POLE (3) 3 WAY (4) 4 WAY (K) KEY OPERATED (P) WITH PILOT LIGHT INDICATION (DL) DUAL LEVEL SWITCH (VC) VACANCY SENSOR (D) WALL MOUNTED DIMMER SWITCH (T) TIMER SWITCH (F) FAN SWITCH
	⊗	LOW VOLTAGE SWITCH OVERRIDE RELAY DESIGNATION
	⊗	LIGHTING CONTROL VACANCY SENSOR-CEILING MOUNTED
	⊗	TIME CLOCK - SEE SCHEDULE ON SHEET#
	⊗	CONTACTOR - SEE SCHEDULE ON SHEET#
	⊗	PHOTO CELL
	⊗	LIGHTING CONTROLLER PANEL
	⊗	LCP1 DESIGNATION
	⊗	PANELBOARD DESIGNATION

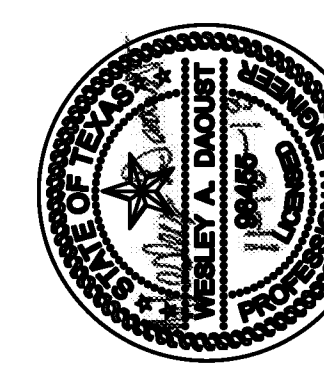
POWER AND COMMUNICATIONS

	—G/H/N—	CIRCUIT HOME RUN WITH GROUND, HOT, NEUTRAL
	—HA-1,3,5/R1—	CIRCUIT TO BE PULLED THROUGH DESIGNATED RELAY IN LIGHTING CONTROL PANEL (IF APPLICABLE)
	—	CIRCUITING INFORMATION FOR GROUPING PURPOSES ONLY. CONTRACTOR SHALL SELECT ACTUAL CIRCUIT BREAKERS AND BALANCE LOADS IN PANELBOARD.
	—	PANELBOARD INFORMATION. SEE SCHEDULING SHEETS FOR MORE INFORMATION.
	⊗	DUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS OTHERWISE NOTED
	⊗	TAMPER PROOF DUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS OTHERWISE NOTED
	⊗	GFCI DUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS OTHERWISE NOTED
	⊗	DUPLEX RECEPTACLE - MOUNTED 6" ABOVE COUNTER BACKSPASH UNLESS OTHERWISE NOTED
	⊗	QUAD RECEPTACLE - MOUNTED 18" AFF UNLESS OTHERWISE NOTED
	⊗	DUPLEX RECEPTACLE - MOUNTED FLUSH IN CEILING
	⊗	FLOOR MOUNTED ELECTRICAL BOX SEE DRAWINGS FOR TYPES OF OUTLETS REQUIRED AT EACH BOX (F) FLUSH TYPE (P) POKE THRU TYPE
	⊗	PUSHBUTTON
	⊗	SPECIAL PURPOSE OUTLET - THIS ELECTRICAL CONNECTION REQUIRES ONSITE COORDINATION WITH OTHER CONTRACTORS AND/OR VENDORS PRIOR TO INSTALLATION. PROVIDE ALL CONNECTIONS, MOTOR STARTERS, AND DISCONNECTS REQUIRED BY CODE AND FINAL SUGGESTED MANUFACTURER REQUIREMENTS. CONTACT ENGINEER WITH ANY REQUIRED CHANGES TO ELECTRICAL DESIGN.
	⊗	MOTOR CONNECTION (2) MOTOR IDENTIFICATION
	⊗	PANELBOARD - FLUSH MOUNTED
	⊗	PANELBOARD - SURFACE MOUNTED
	⊗	TRANSFORMER - MOUNT ON 4" PAD UNLESS OTHERWISE NOTED
	⊗	IN-GRADE PULLBOX
	⊗	DISCONNECT SWITCH
	⊗	FUSED DISCONNECT SWITCH
	⊗	COMBINATION MOTOR STARTER
	⊗	MOTOR RATED SWITCH
	⊗	JUNCTION BOX
	⊗	DOUBLE ACTION MUSHROOM HEAD EMERGENCY POWER OFF BUTTON THIS BUTTON SHALL PROVIDE A SIGNAL TO SHUNT TRIP ALL CIRCUIT BREAKERS WHICH FEED POWER TO THIS ROOM. ALL CIRCUIT BREAKERS FEEDING THIS ROOM SHALL BE SHUNT TRIP TYPE.
	⊗	TELEPHONE/DATA OUTLET - PROVIDE SINGLE GANG BOX AND 1" CONDUIT WITH FULL STRING TO NEAREST ACCESSIBLE CEILING.

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL COMPLY WITH ALL ADOPTED LOCAL, STATE, AND NATIONAL CODES.
- ALL ELECTRICAL WORK REQUIRES CITY INSPECTION. ELECTRICAL WORK COVERED OR ENCLOSED PRIOR TO CITY INSPECTION SHALL BE UNCOVERED FOR INSPECTION AND REPLACED AT NO EXPENSE TO THE OWNER.
- ALL CONDUITS MUST CONTAIN A GROUND WIRE. USE OF THE CONDUIT BODY AS A GROUNDING METHOD IS PROHIBITED.
- ALL CONDUITS SHALL BE INSTALLED PARALLEL AND/OR PERPENDICULAR TO BUILDING LINES.
- ALL CONDUCTORS SHALL BE COPPER UNLESS SPECIFIED OTHERWISE.
- DO NOT SCALE THE DRAWINGS.
- ELECTRICAL CONDUITS AND/OR CIRCUITS PENETRATING FIRE RATED CEILING AND WALLS TO BE SEALED FIRE AND SMOKE TIGHT AT THE PENETRATION.
- THE CONTRACTOR SHALL REPLACE AND/OR REPAIR ALL WALLS, CEILINGS, DOORS, EQUIPMENT, WIRING, CONDUIT, ETC, WHICH ARE DAMAGED OR REMOVED BY CONTRACTOR TO THE SATISFACTIONS OF THE ARCHITECT/ENGINEER.
- ALL MATERIALS SHALL BE NEW AND UNUSED, AND OF THE BEST QUALITY. ALL MATERIAL INSTALLED SHALL BE UL LISTED OR AS REQUIRED BY LOCAL BUILDING CODES.
- VERIFY VOLTAGE, CURRENT AND PHASES FOR ALL EQUIPMENT TO BE INSTALLED INCLUDING BY OWNER.
- THE CONTRACTOR SHALL PROVIDE ALL FUSES AND CIRCUIT BREAKERS WHERE REQUIRED BY THE NEW CONSTRUCTION DOCUMENTS.
- ALL ELECTRICAL CABINETS, PANELS, DISCONNECTS, TRANSFORMERS, CONTROLS, RECEPTACLES, JBOXES, ETC., SHALL BE MARKED, TAGGED AND IDENTIFIED. NOTE FEEDER SOURCE WHERE APPLICABLE.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS EXCEPT AS NOTED AND MAKE ALL NECESSARY CONNECTIONS TO NEWLY INSTALLED EQUIPMENT.
- UPON COMPLETION OF THE PROJECT, ALL CHANGES SHALL BE DOCUMENTED, AND REDLINED AS-BUILT DRAWINGS SHALL BE TURNED OVER TO THE OWNER BY THE CONTRACTOR.
- 4" HOUSEKEEPING CONCRETE PADS SHALL BE FURNISHED FOR ALL FLOOR MOUNTED EQUIPMENT, BY OTHERS.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID TO VERIFY EXISTING CONDITIONS. BY SUBMITTING A BID THE CONTRACTOR ACKNOWLEDGES THAT HE HAS VISITED THE SITE AND THE BID IS ADEQUATE TO PERFORM WORK NECESSARY TO MAKE THE SYSTEMS COMPLETE AND OPERATIONAL. IF THE CONDITIONS AT THE SITE ARE NOT SUCH THAT THE WORK CAN BE INSTALLED AS SHOWN, CONTRACTOR'S BID SHALL INCLUDE COST, TO COVER NECESSARY ADJUSTMENTS AND ADDITIONS, (BASED ON SITE CONDITIONS) TO MAKE THE SYSTEMS COMPLETE AND OPERATIONAL. CONTRACTOR TO CONTACT ARCHITECT/ENGINEER WITH ANY FIELD DISCREPANCIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH IBC 1006.3.1 BY HAVING SELECTED LIGHTING MANUFACTURER SUBMIT EMERGENCY PHOTOMETRIC PLAN WITH LIGHTING SUBMITTAL SHOWING COMPLIANCE AND ADDING ADDITIONAL FIXTURES WHERE REQUIRED AT NO COST TO THE OWNER.

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 Registered Professional Engineer No. 65324

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 DATE 11/16/2018
 DRAWN BY KM
 CHECKED BY JF
 BRW PROJECT NUMBER 218044.00

CITY OF GEORGETOWN
 FIRE STATION No. 7
 2703 EAST STATE HIGHWAY 29
 GEORGETOWN, TX 78626

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E0.0

Table with columns: LOCATION, TYPE, MANUFACTURER, MODEL, VOLTAGE, LAMPING INFO, REMARKS. Lists various lighting fixtures and their specifications.

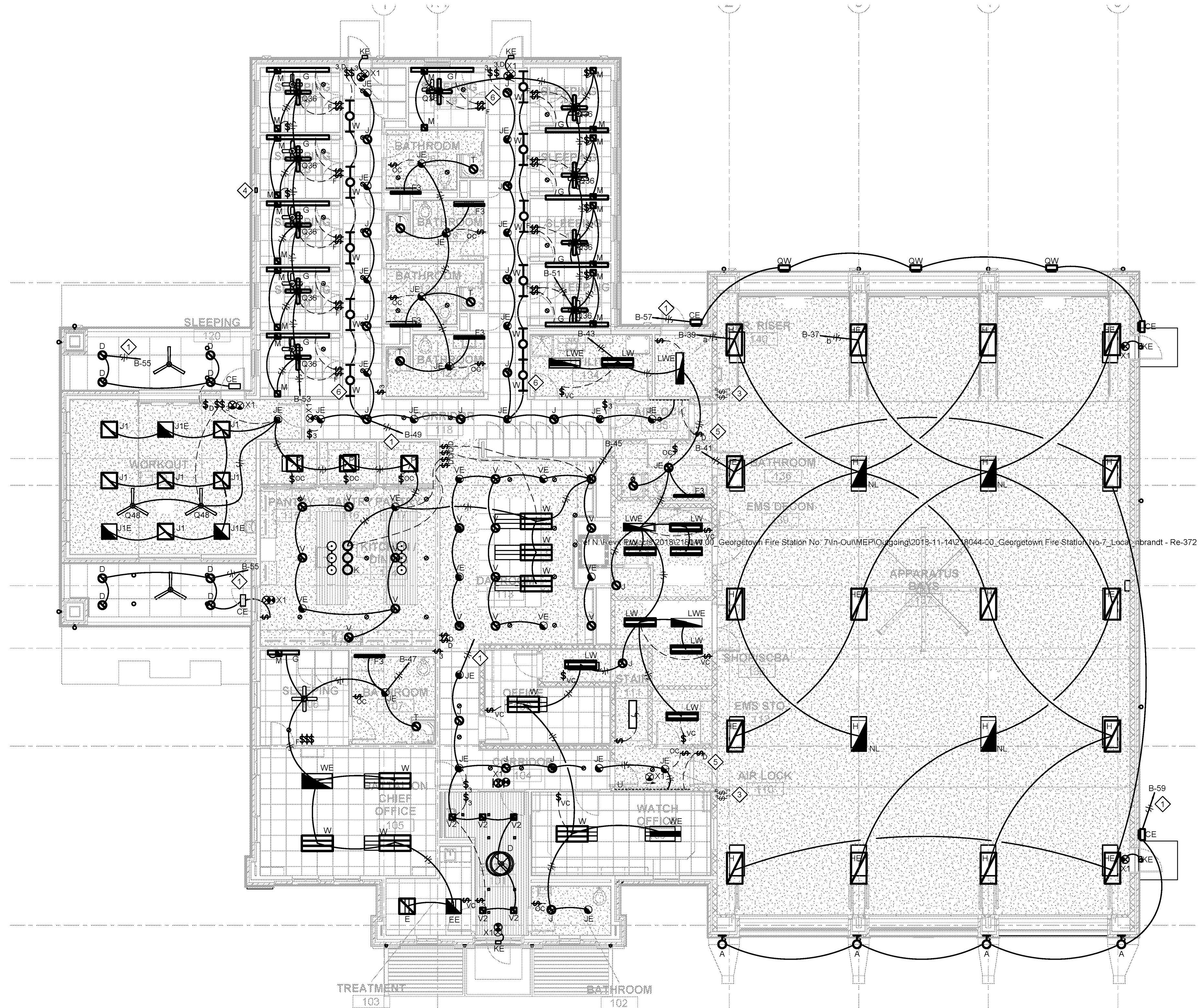
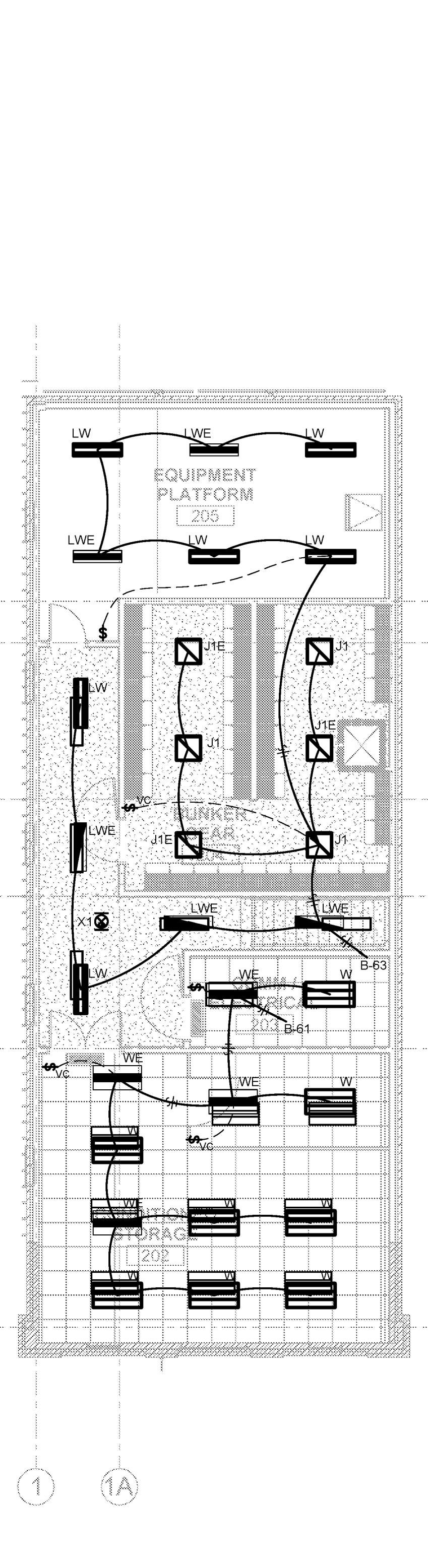
- NOTES: 1 CONTRACTOR SHALL PROVIDE ALL CABLING, CONDUCTORS, SENSORS, DRIVERS, POWER SUPPLIES, CONTROLS, ETC., FOR A COMPLETE AND FULLY FUNCTIONAL AND CONTROLLABLE LIGHTING PACKAGE. 2 EXTERIOR LUMINAIRES SHALL MEET 138MPPH 1.3 SEC WIND GUSTS. 3 PROVIDE AND INSTALL LIGHTED WALL MOUNTED 1% DIMMING CONTROLS WITH CUSTOM LABELED DIMMER. CATS CABLING IS REQUIRED BETWEEN WALL CONTROL AND EACH LUMINAIRE. 4 LIGHT FIXTURE QPH LOCATED ON NORTH SIDE OF TRAINING TOWER SHALL BE CONTROLLED SEPARATELY WITH WEATHER RATED 4-HOUR DALI TIMER. MOUNT NEAR PANEL FOR TRAINING TOWER.

GENERAL LIGHTING NOTES:

- A. LUMINAIRES AND SWITCHES LABELED 'EY' ARE EXISTING TO REMAIN WHERE SHOWN UNLESS OTHERWISE NOTED. MAINTAIN CIRCUIT CONTINUITY FOR THESE DEVICES AS REQUIRED. B. REMOVED LUMINAIRES AND EXIT SIGNS NOT BEING REUSED SHALL BE RETURNED TO BUILDING OWNER FOR FUTURE USE. C. ELECTRICAL CONTRACTOR SHALL INSPECT EXISTING AND RELOCATED FIXTURES IN WORK AREA. REPLACE ALL NECESSARY COMPONENTS, RELAMP AND CLEAN AS REQUIRED TO MAINTAIN LIKE-NEW LIGHT FIXTURE APPEARANCE. ENSURE THAT ALL LAMPS HAVE THE SAME COLOR RENDERING INDEX (CRI) AND COLOR TEMPERATURE (KELVIN) AND ARE OF CLIENT APPROVED MANUFACTURER THROUGHOUT THE AREA OF WORK. VERIFY LIGHT FIXTURE AND LAMP REQUIREMENTS WITH CLIENT PRIOR TO BEGINNING ANY WORK. D. LUMINAIRES SHALL BE FURNISHED AND INSTALLED WITH LAMPS, BALLAST(S) AND MOUNTING HARDWARE. ELECTRICAL CONTRACTOR SHALL SUBMIT FIXTURE CUT SHEETS TO CLIENT AND ARCHITECT FOR THEIR FINAL APPROVAL PRIOR TO ORDERING OF THE LUMINAIRES. E. ELECTRICAL CONTRACTOR SHALL COORDINATE LIGHTING FIXTURE QUANTITIES, MOUNTING REQUIREMENTS, FINISHES, FIXTURE AVAILABILITY AND LEAD TIME FOR DELIVERY TO SITE. F. FLUORESCENT AND LED LUMINAIRES THAT CONTAIN BALLAST(S) AND/OR LED DRIVERS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS PER NEC ARTICLE 410.150(C) REQUIREMENTS. DISCONNECTING MEANS IS NOT REQUIRED FOR EMERGENCY ILLUMINATION REQUIRED IN 700.16. G. COORDINATE LAYOUT AND INSTALLATION OF LUMINAIRES AND MOUNTING MEANS WITH OTHER CONSTRUCTION THAT IS SUPPORTED OR THAT PENETRATES CEILINGS, INCLUDING BUT NOT LIMITED TO HVAC EQUIPMENT, FIRE SUPPRESSION SYSTEM AND PARTITION ASSEMBLIES PRIOR TO BEGINNING ANY WORK. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN HVAC EQUIPMENT AND LOCATION OF LUMINAIRES. VERIFY CLEARANCES REQUIRED. H. ALL LUMINAIRES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM BY MECHANICAL MEANS LISTED SUPPORT CLIPS, LISTED FOR USE WITH THE TYPE OF CEILING GRID MEMBER AND LUMINAIRE. ARE PERMITTED AT EACH FIXTURE CORNER. FIXTURES WEIGHING LESS THAN 50 POUNDS SHALL ALSO HAVE A MINIMUM OF TWO (2) 6 GAUGE WIRES CONNECTED FROM THE OPPOSITE CORNERS OF THE FIXTURE HOUSING TO STRUCTURE. FIXTURES ABOVE 50 POUNDS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE. FIXTURES OF 50 POUNDS OR LESS SHALL BE SUPPORTED INDEPENDENTLY WITH AT LEAST TWO 3/4-INCH LISTED METAL CHANNELS SPANNING AND SECURED TO CEILING TEES AND SUPPORTED WITH WIRES OR ROD TO BUILDING STRUCTURE. I. ALL LUMINAIRES AND FLEXIBLE WIRING WHIPS SHALL BE SUPPORTED INDEPENDENTLY OF THE GRID SUPPORT SYSTEM. J. ELECTRICAL CONTRACTOR SHALL PURCHASE ANY ADDITIONAL LUMINAIRES REQUIRED, DUE TO DAMAGE OR CLIENT REQUEST. MATCH EXISTING LUMINAIRES IN THE AREA. K. MOUNT MULTIPLE LIGHT SWITCHES IN A MULTIPLE GANG BOX WITH SINGLE COVER PLATE. L. MULTIWIRE BRANCH CIRCUITS SHALL BE PROVIDED WITH A SIMULTANEOUS DISCONNECTING MEANS TO DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT OF ORIGIN. DISCONNECTION CAN BE ACCOMPLISHED THROUGH LISTED HANDLE TIES USED WITH SINGLE-POLE CIRCUIT BREAKERS OR MULTI-POLE DEVICES. BRANCH CIRCUIT(S) SERVING EMERGENCY LIGHTING SHALL NOT BE PART OF A MULTI-WIRE BRANCH CIRCUIT. M. GROUNDED AND UNGROUNDED CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE GROUPED WITH WIRE TIES OR SIMILAR MEANS AT A MINIMUM OF ONE LOCATION WITHIN THE PANELBOARD OR OTHER POINT OF ORIGIN. N. SWITCHES CONTROLLING LIGHTING LOADS, WHERE SWITCHES CONTROL LIGHTING LOADS SUPPLIED BY A GROUNDED GENERAL PURPOSE BRANCH CIRCUIT, THE GROUNDED CIRCUIT CONDUCTOR (NEUTRAL WIRE) FOR THE CONTROLLED LIGHTING CIRCUIT SHALL BE PROVIDED AT THE SWITCH LOCATION. EXISTING SWITCHES IN REMODELED SPACES SHALL NOT BE EXEMPT FROM THIS REQUIREMENT. O. WHERE DIMMING CONTROL IS SPECIFIED AS A PORTION OF A CIRCUIT THAT ALSO HAS SWITCHED LIGHTING IN ADJACENT SPACES, PROVIDE A SEPARATE, DEDICATED NEUTRAL WIRE FROM THE DIMMING DEVICE BACK TO THE ORIGINATING PANEL. P. IN REMODEL AREAS WHERE OCCUPANCY SENSING DEVICES ARE SPECIFIED AND ARE REPLACING EXISTING MANUAL SNAP SWITCH CONTROL OF THE LIGHTING, PROVIDE A NEUTRAL CONDUCTOR FROM THE LIGHTING CIRCUIT BEING CONTROLLED BY THE OCCUPANCY SENSING DEVICE (OR SWITCH/POWER PACK, WHERE LOW VOLTAGE SENSORS ARE SPECIFIED). FOR BIDDING PURPOSES, ASSUME THAT THE EXISTING SNAP SWITCHES ARE WIRED WITHOUT A NEUTRAL CONDUCTOR, AND A NEW NEUTRAL CONDUCTOR WILL BE REQUIRED. Q. ALL SWITCHES SHALL BE LABELED WITH DESIGNATED PANEL AND CIRCUIT NUMBER(S) ON THE COVER PLATE. R. PROVIDE AN UNSWITCHED HOT AT EACH EMERGENCY LIGHT FIXTURE AND EMERGENCY LIGHTING UNIT. EMERGENCY LIGHTING SHALL BE SUPPLIED WITH A BATTERY TO SUPPLY AND MAINTAIN EMERGENCY LIGHTING LEVELS FOR A MINIMUM PERIOD OF 90 MINUTES. S. SHADED LUMINAIRES, EMERGENCY LIGHTING UNITS, AND EXIT SIGNS SHALL BE CONNECTED TO THE NORMAL LIGHTING CIRCUIT IN THE AREA AND CONNECTED AHEAD OF ANY CONTROLS. T. EMERGENCY LUMINAIRES SHALL WITH SWITCH LEG SUBSCRIPT LETTER SHOWN SHALL BE CONTROLLED ALONG WITH OTHER LUMINAIRES SHARING SWITCH LEGS SUBSCRIPT LETTER. ELECTRICAL CONTRACTOR SHALL CONNECT EMERGENCY LIGHT FIXTURE PER MANUFACTURER'S WIRING DIAGRAMS. SWITCHED EMERGENCY BALLAST WIRING CONFIGURATION REQUIRES CONNECTION TO SWITCHED AND UNSWITCHED CONDUCTORS OF SAME LIGHTING CIRCUIT. U. ALL EXIT SIGNS ARE NEW, UNLESS NOTED OTHERWISE. MATCH NEW EXIT SIGNS WITH EXISTING. LOCATIONS OF EXIT SIGNS SHALL BE COORDINATED WITH LIFE SAFETY DRAWINGS AND LOCAL AUTHORITIES. PROVIDE SIGNS IN ADDITIONAL LOCATIONS, IF REQUIRED, BY LOCAL AUTHORITIES. V. MOUNT NEW WALL SWITCHES AT 48" TO BOX CENTERLINE ABOVE FINISHED FLOOR (A.F.F.), TO COMPLY WITH ADA STANDARDS. W. ELECTRICAL CONTRACTOR SHALL TEST BATTERIES IN ALL REUSED OR EXISTING EXIT SIGNS, EMERGENCY LIGHT UNITS, AND EMERGENCY FLUORESCENT LUMINAIRES. REPLACE BATTERIES, UNITS, OR BALLASTS IF REQUIRED.

KEYED NOTES:

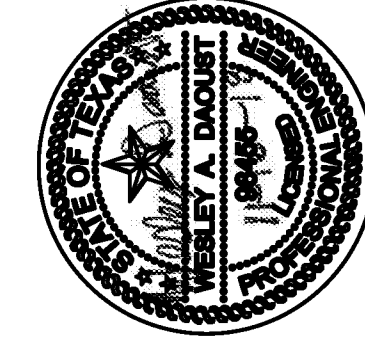
- 1. WIRE THIS CIRCUIT THRU BUILDING LIGHTING CONTROL PANEL. 2. NOT USED. 3. PROVIDE DIGITAL SWITCH THAT TIES INTO RELAY FOR THESE FIXTURES. FIXTURES TO BE MANUALLY CONTROLLED DURING THE DAY AND CONTROLLED BY THE LIGHTING CONTROL PANEL AT NIGHT ON PHOTOCELL. 4. E.C. SHALL COORDINATE EXACT MOUNTING LOCATION OF PHOTOCELL. 5. MOUNT DIMMER SWITCH ABOVE DROP CEILING. 6. 'W' / NIGHT LIGHTS ARE ALWAYS TO REMAIN ON.



2 SECOND FLOOR PLAN-LIGHTING 1/8" = 1'-0" PLAN TRUE NORTH

1 FIRST FLOOR PLAN-LIGHTING 1/8" = 1'-0" PLAN TRUE NORTH

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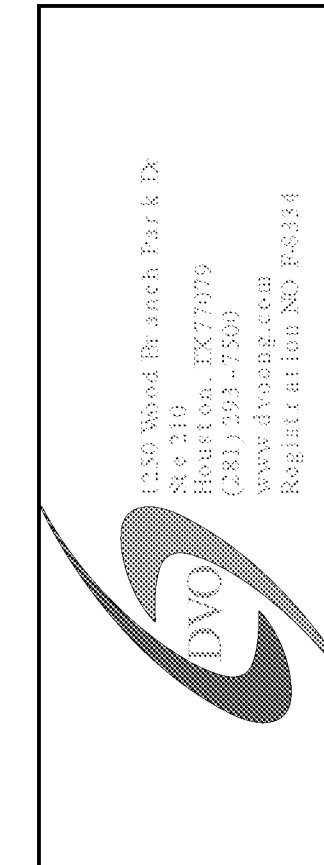
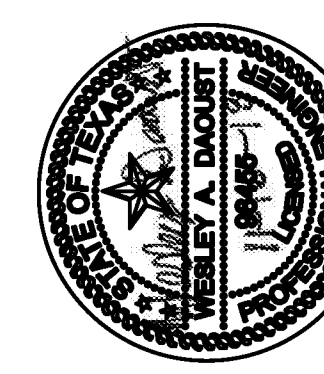
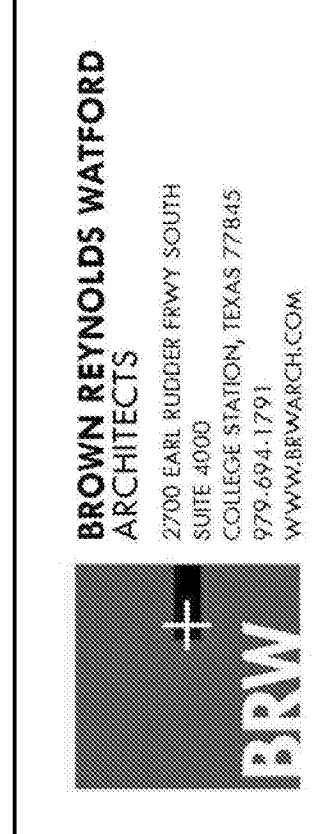
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CITY OF GEORGETOWN FIRE STATION No. 7 2703 EAST STATE HIGHWAY 29 GEORGETOWN, TX 78626

Table with columns: NO., REVISION, DATE. Includes a revision entry for 'DATE'.

E1.1 LIGHTING FLOOR PLANS



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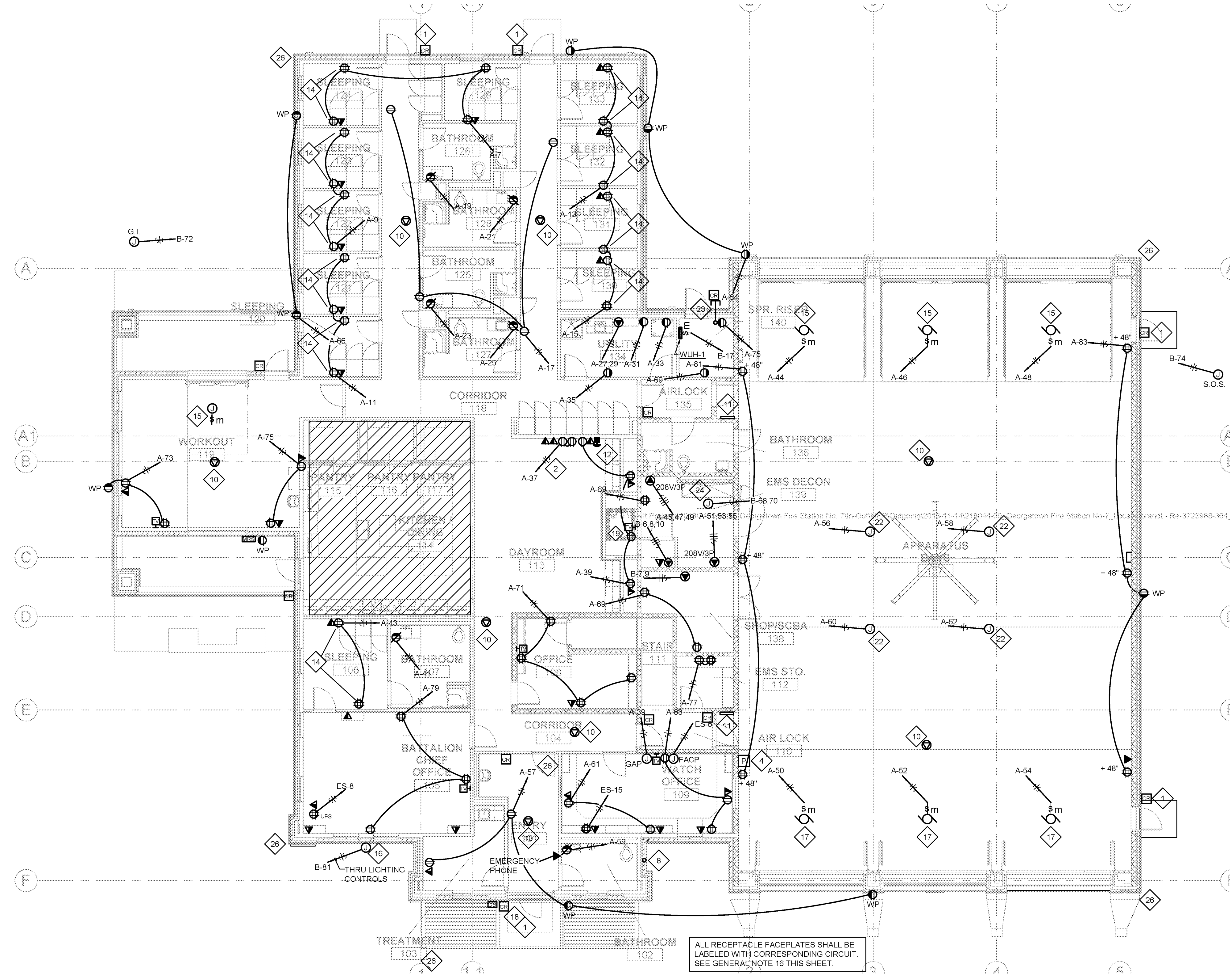
E1.2 POWER FLOOR PLANS

POWER GENERAL NOTES:

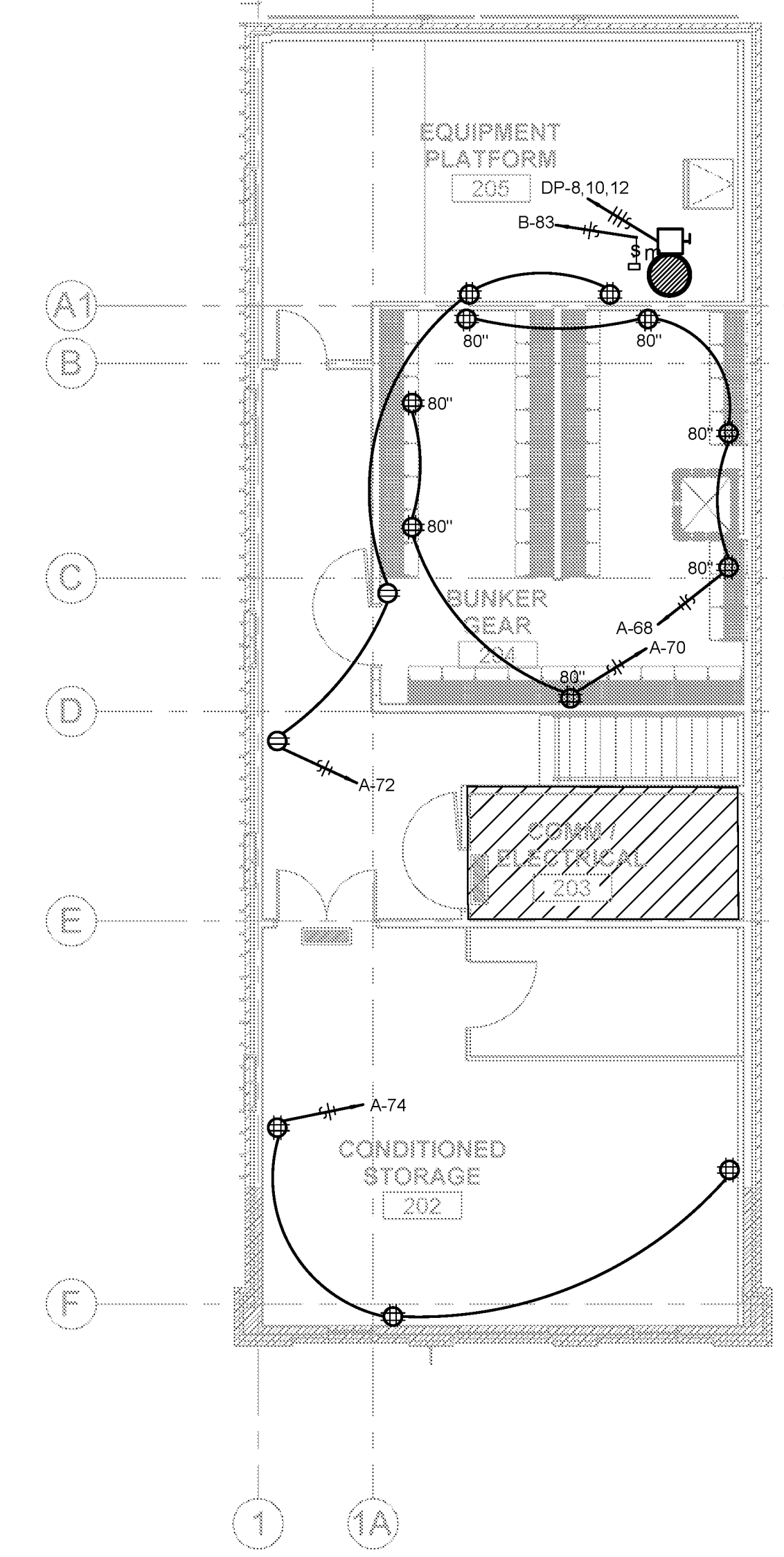
- 1. EXHAUST FANS IN APPARATUS SUPPORT ROOMS TO BE ON 2 HR DIAL TIMER MOUNTED ON WALL.
2. EXHAUST FAN IN BUNKER GEAR ROOM TO BE CONTROLLED THROUGH WALL MOUNTED DIAL 2 HR TIMER.
3. VERIFY WITH OWNER FOR EXACT LOCATION OF PULL-DOWN ELECTRICAL SPRING REELS IN APPARATUS BAY...

MRS & SOLENOID SEQUENCE OF OPERATION

ELECTRICAL CONTRACTOR TO PROVIDE, PLUMBING CONTRACTOR TO INSTALL TWO SOLENOID SHUT-OFF VALVES IN GAS LINE SUPPLYING THE GAS RANGE AND OUTDOOR BBQ GRILLE. VALVES SHALL BE EQUAL TO SNAP-TITE MODEL #230FV-BNA-AMG1, 120VAC NORMALLY CLOSED, SHUT-OFF VALVE...



1 FIRST FLOOR PLAN-POWER 1/8" = 1'-0"

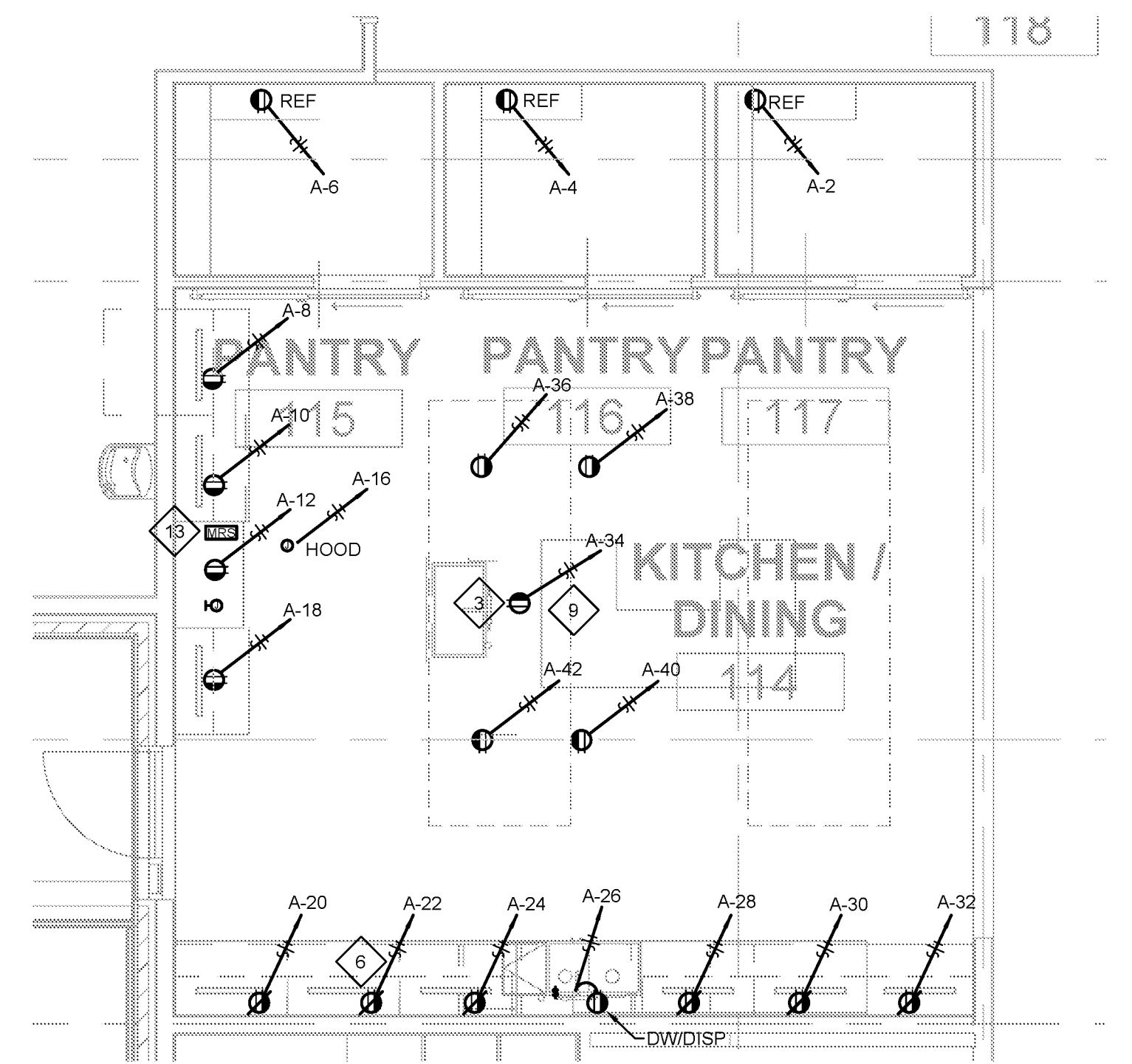


2 SECOND FLOOR PLAN-POWER 1/8" = 1'-0"

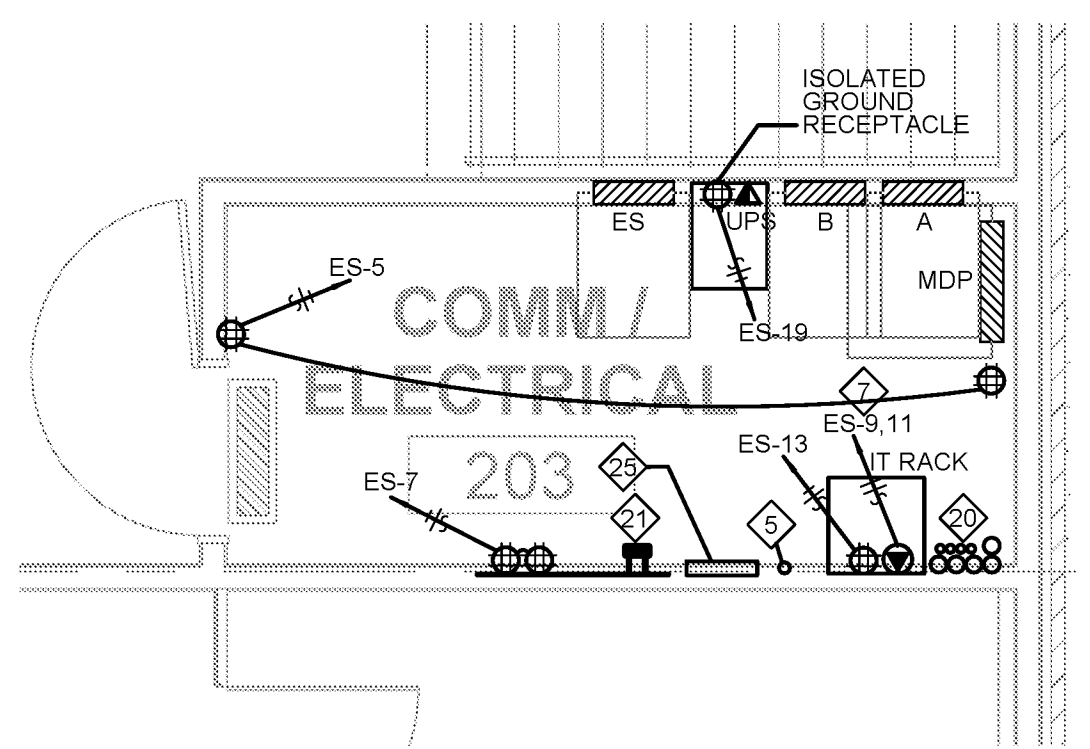
POWER KEYED NOTES:

- 1. CARD READERS TO CONNECT TO OVERHEAD DOORS. (1) WHEN SECTIONAL DOORS ARE IN CLOSED POSITION - HID IS IN UNLOCK POSITION FOR FREE EGRESS/INGRESS. (2) WHEN SECTIONAL DOORS ARE IN OPEN POSITION - HID IS LOCKED.
2. ALERTING SYSTEM: 2-MONITORS, CAD CPU'S TOUCH SCREEN, COMPUTER NEED 2-RECEPTACLES & 3-DATA...

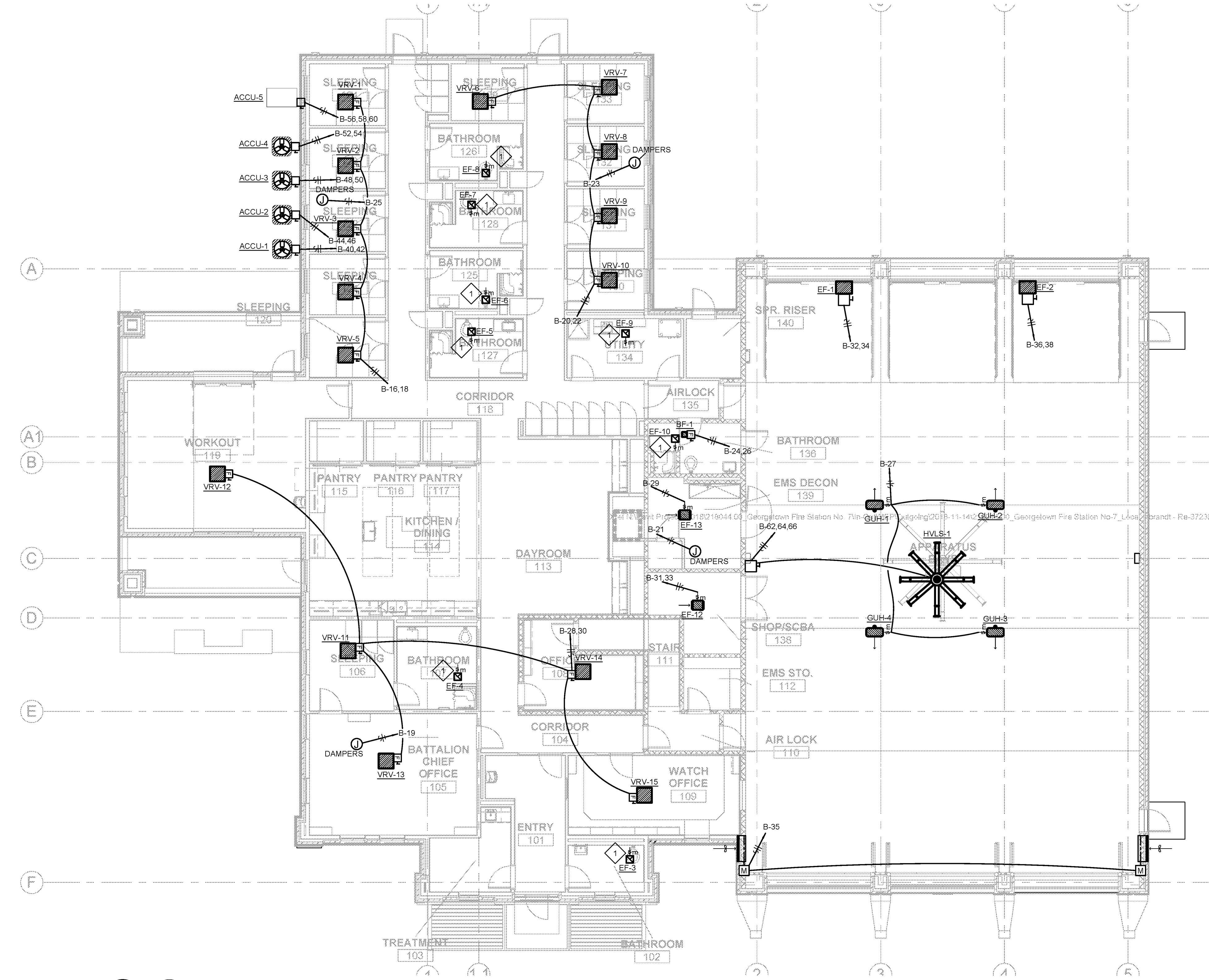
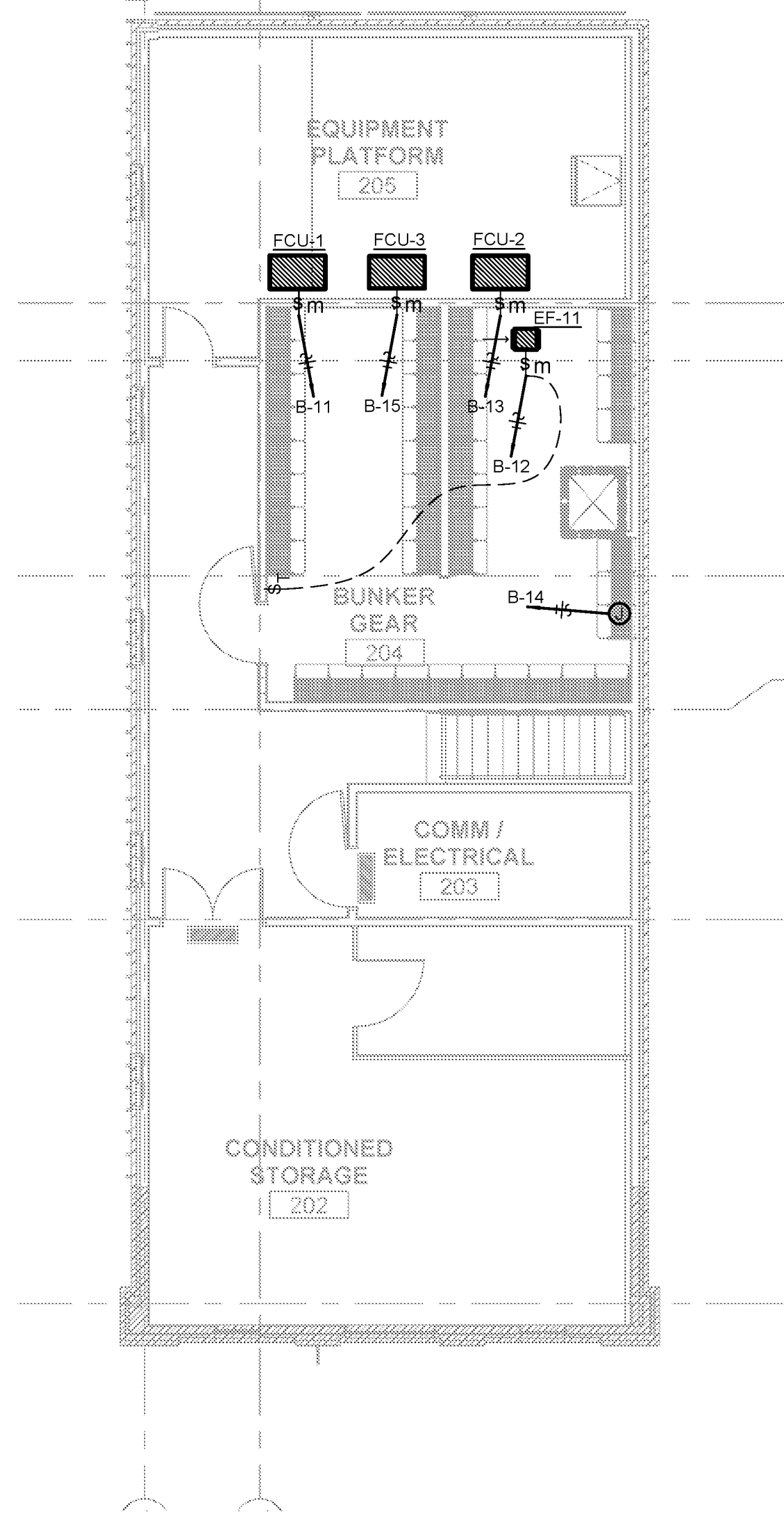
- 17. COORDINATE RECESSED MOUNTING LOCATION OF MAIN CONTROL BOXES WITH OWNER PRIOR TO ROUGH-IN.
18. CARD READER MOUNTED 42" AFF. DEDICATED PLAQUE TO BE MOUNTED AT 5' SEE ARCHITECTURAL DRAWINGS.
19. LOCATION FOR WALL MOUNTED TV SCREEN, ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A RECESSED DUAL-GANG BOX FOR POWER AND TELECOMMUNICATIONS CONNECTIONS...



3 ENLARGED FLOOR PLAN-KITCHEN 1/4" = 1'-0"



4 ENLARGED FLOOR PLAN-ELECTRICAL ROOM 1/4" = 1'-0"

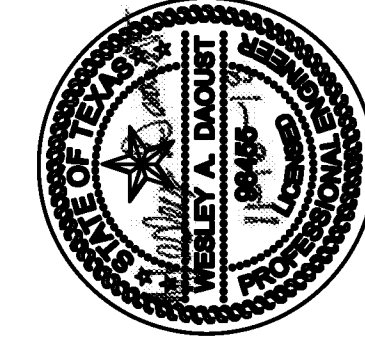


POWER KEYED NOTES:

- POWER & CONTROL THIS FAN WITH LIGHT FIXTURES IN THIS ROOM

sn Fire Station No-7_10-12-18-rv-1-AP-RCP-M01.dwg

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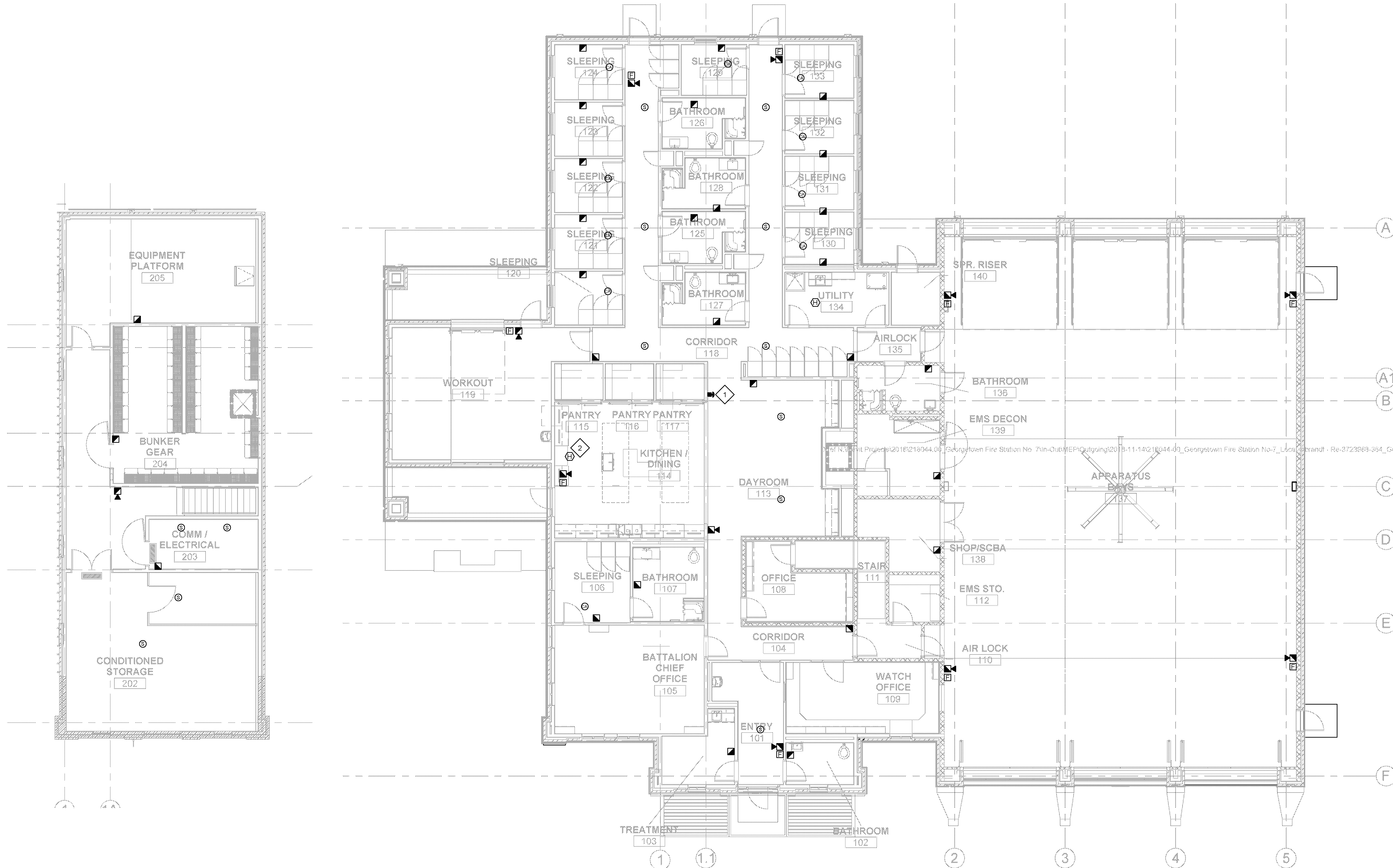
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E1.3



FIRE ALARM GENERAL NOTES:

1. FIRE ALARM SYSTEM, ALL COMPONENTS AND ALL ACCESSORIES TO COMPLY WITH ALL APPLICABLE LOCAL, STATE AND NFPA CODES, STANDARDS AND REGULATIONS.
2. SUBMIT TO FIRE MARSHALL FOR PLAN REVIEW FOR FINAL APPROVAL OF LAYOUT AND DESIGN.
3. PROVIDE PULL STATIONS, SMOKE DETECTORS, STROBES, HORN STROBES, ETC. FOR A COMPLETE FUNCTIONAL FIRE ALARM SYSTEM. SYSTEM DESIGN PER LOCAL, STATE AND NFPA STANDARDS AND REGULATIONS.
4. FIRE ALARM SYSTEM SHALL BE DESIGNED AND INSPECTED BY LICENSED FIRE ALARM SPECIALIST. INSPECTION SHALL INCLUDE A 24 HOUR BATTERY TEST AND TOTAL BUILDING FIRE ALARM FINAL INSPECTION AND A BUILDING FIRE FINAL INSPECTION.
5. INSTALLATION OF THE FIRE PROTECTION SYSTEM REQUIRES THAT ALL POWER UNDER HOOD APPLIANCES/EQUIPMENT AND/OR OUTLETS AUTOMATICALLY SHUT OFF IN THE EVENT OF SYSTEM ACTUATION. THE SYSTEMS ARE PROVIDED WITH A SWITCH FOR THIS PURPOSE. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL LABOR AND MATERIALS INCLUDING SHUNT TRIP BREAKERS, CONTRACTORS, INTERCONNECTING WIRING, ETC. TO INSURE PROPER SYSTEM OPERATIONS.
6. COORDINATE FIRE ALARM INSTALLATION WITH MECHANICAL, ELECTRICAL AND PLUMBING DISCIPLINES PRIOR TO CONSTRUCTION.

FIRE ALARM KEYED NOTES:

1. PROVIDE RING - PULL DEVICE, RECESS MOUNTED FOR HOOD SUPPRESSION SYSTEM TO ACTIVATE.
2. ANSUL HOOD PANEL RECESSED IN TOP OF UPPER CABINET.

2 SECOND FLOOR PLAN-FIRE ALARM
1/8" = 1'-0"
PLAN TRUE NORTH

1 FIRST FLOOR PLAN-FIRE ALARM
1/8" = 1'-0"
PLAN TRUE NORTH

FIRE ALARM SYSTEM (ALL OF THESE MAY NOT APPEAR ON DRAWINGS)

SYMBOL	DESCRIPTION
[Symbol]	FIRE ALARM CONTROL PANEL
[Symbol]	FIRE ALARM MANUAL PULL STATION
[Symbol]	STROBE LIGHT 15CD
[Symbol]	STROBE LIGHT 75CD
[Symbol]	SMOKE DETECTOR
[Symbol]	DUCT DETECTOR IN R/A
[Symbol]	DUCT DETECTOR IN S/A
[Symbol]	HEAT DETECTOR
[Symbol]	HORN/STROBE LIGHT
[Symbol]	FIRE ALARM WIRING CABINET
[Symbol]	RELAY SWITCH
[Symbol]	120V AUDIBLE COMBINATION SMOKE/CO ALARM W/ BATTERY
[Symbol]	EXTERIOR HORN
[Symbol]	FIRE ALARM CONTROL MODULE
[Symbol]	FIRE ALARM MONITOR MODULE
[Symbol]	MAGNETIC DOOR HOLDER
[Symbol]	FIRE ALARM REMOTE LED
[Symbol]	TAMPER SWITCH
[Symbol]	DIGITAL ALARM COMMUNICATION
[Symbol]	WATER FLOW SWITCH
[Symbol]	REMOTE POWER SUPPLY
[Symbol]	FIRE ALARM ANNUNCIATOR PANEL
[Symbol]	RING PULL DEVICE

SCOPE OF WORK:
FIRE ALARM SYSTEM.
IT IS THE INTENTION OF THIS PROJECT TO PROVIDE A COMPLETE ANALOG ADDRESSABLE, ELECTRICALLY SUPERVISED FIRE ALARM SYSTEM TO BE INSTALLED, CONNECTED AND LEFT IN FIRST CLASS OPERATING CONDITION. THE ENTIRE INSTALLATION SHALL CONFORM TO ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES. IN PARTICULAR, NFPA 72, NFPA 101 LIFE SAFETY CODE, ADA AND THE NATIONAL ELECTRICAL CODE. ALL EQUIPMENT SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER AND BEAR THE U.L. AND F.M. LABEL. PRODUCTS SHALL BE THOSE MANUFACTURED BY SIMPLEX.

SYSTEM OPERATION:
THE SYSTEM SPECIFIED IS A SUPERVISED, ADDRESSABLE FIRE ALARM SYSTEM. UPON ACTIVATION OF AN ALARM INITIATING DEVICE, THE FOLLOWING SHALL OCCUR:

- 01 LIGHT THE APPROPRIATE LED AND INDICATE THE LOCATION AT THE FIRE ALARM CONTROL PANEL.
- 02 SOUND THE ALARM TONE AND ACTIVATE THE ADA STROBE LIGHTS IN THE BUILDING.
- 03 SHUT DOWN AIR HANDLING UNITS IN THE ZONE IN WHICH THE ALARM HAS OCCURRED.
- 04 SHUT FIRE/SMOKE DAMPERS IN ZONE WHICH ALARM HAS OCCURRED.
- 05 SHUT DOORS IN THE ZONE IN ALARM.
- 06 CLOSE ALL MAGNETICALLY-HELD SMOKE DOORS.

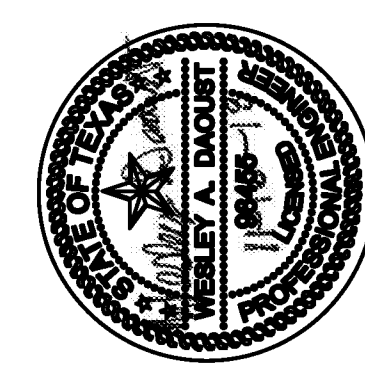
THE SIGNALS MAY BE SILENCED BUT SHALL RESOUND ON A SUBSEQUENT ALARM. THE PANEL SHALL NOT BE CAPABLE OF RESET UNTIL THE INITIATING DEVICES HAVE BEEN CLEARED. ATTEMPTS TO RESET THE SYSTEM AFTER AN ALARM OR TEST SHALL NOT RESOUND THE SIGNALS.

THE SYSTEM SHALL BE PROVIDED WITH 24 HOUR BATTERY STANDBY AND AUTOMATIC CHARGER. REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS OF THE FIRE ALARM SYSTEM.

ALL WIRING FOR FIRE ALARM SYSTEM SHALL BE PER NFPA 72, NEC, LOCAL CODES AND MANUFACTURERS RECOMMENDATIONS. ALL WIRING SHALL RUN IN THE CONDUIT.

ACCEPTABLE MANUFACTURER FOR FIRE ALARM SYSTEM SHALL BE SILENT KNIGHT, EDWARDS, AND/OR FCI GAMEWELL.

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Registered in the State of Texas

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NOTES:

1. SEE ARCHITECTURAL SPECIFICATIONS FOR ALL ROUGH-IN AND INSTALLATION DETAILS.
2. US DIGITAL DESIGNS DOES NOT SUPPLY BACK BOXES, CONDUITS, OR MOUNTING FASTENERS.
3. US DIGITAL DESIGNS FIRE STATION ALERTING PLANS ARE DIAGRAMMATIC AND FOR QUOTING PURPOSES ONLY. DRAWING MAY NOT BE TO SCALE.
4. PHOENIX G2 SYSTEM IS ABLE TO SIGNAL OWNER-FURNISHED SYSTEMS, (EXHAUST, LIGHT, GAS SHUT OFF, ETC.) BUT USDD DOES NOT SUPPLY THESE SYSTEMS AND CANNOT WARRANT OR SUPPORT ANY OF THEIR PERFORMANCE BEYOND THE TRANSMISSION OF RELAY SIGNAL TO THEM.

INSTALLER NOTES:

1. INSTALLER TO INCLUDE CONNECTION BETWEEN ATX STATION CONTROLLER'S LINE-LEVEL AUDIO OUTPUT AND (EXISTING) OWNER-FURNISHED HOUSE AUDIO SYSTEM (AMP). (IF APPLICABLE)
2. INSTALLER TO PROVIDE 1 CAT5/6 CABLE FROM ATX CONTROLLER TO CUSTOMER EXISTING STATION RADIO AND NETWORK SYSTEM FOR BACKUP.
3. INSTALLER TO PROVIDE CONNECTION BETWEEN (EXISTING) OWNER-FURNISHED STATION LIGHTING CONTROL SYSTEM AND RELAY OUTPUT FROM ATX STATION CONTROLLER OR I/O REMOTE. (IF APPLICABLE)
4. INSTALLER TO VERIFY WALL AND CEILING TYPE TO DETERMINE NEED FOR FLUSH OR SURFACE MOUNT INSTALLATION OF EQUIPMENT SPECIFIED.

ALL CONDUITS, CABLING/WIRE, BACKBOXES, ETC., SHALL BE INSTALLED WITHIN WALLS AND CEILINGS. SURFACE MOUNTED SHALL NOT BE ACCEPTED, WITH THE EXCEPTION OF COMMUNICATION ROOM ONLY.

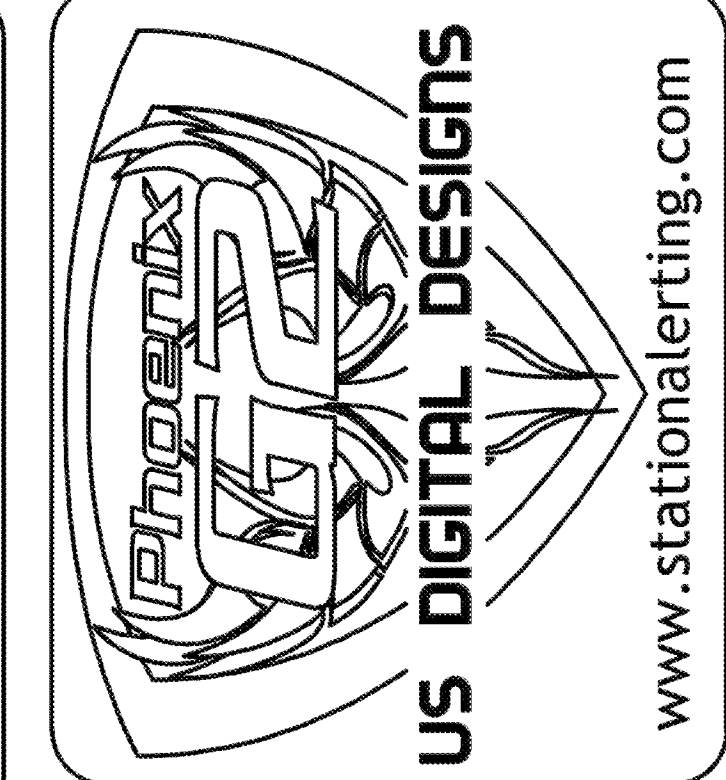
REFER TO SPECIFICATION SECTION 274212 ALERTING SYSTEM FOR ADDITIONAL INFORMATION.

ELECTRICAL CONTRACTOR RESPONSIBLE FOR PROVIDING AND INSTALLATION OF ALL BACKBOXES, AND REQUIRED CONDUITS WITH PULL STRING FOR SYSTEMS INDICATED ON THIS SHEET. SEPARATELY, ELECTRICAL CONTRACTORS SCOPE CONTAINS CONTROL OF AUTOMATED ALERTING DEVICES, INDICATED ON DRAWING SHEET E2.2, AND EXPLAINED ON MECHANICAL, PLUMBING, AND ELECTRICAL SHEETS.

OWNER RESPONSIBLE FOR INSTALLATION OF ALL CABLING, US DIGITAL DESIGN DEVICES INDICATED IN THE COUNT KEY SHOWN ON THIS SHEET, 7' TALL FLOOR MOUNTED RACK, ETC., FOR A COMPLETE AND FULLY FUNCTIONAL ALERTING SYSTEM.

ELECTRICAL CONTRACTOR PROVIDE INSTALL BACK BOXES.		US DIGITAL DESIGNS	
NO	Count	Name	
NO	1	EXTERNAL AMPLIFIER (60-100W)	
RACK MOUNT = 10-US	1	G2 ATX STATION CONTROLLER	
RACK MOUNT = 10-US	1	G2 EXPANSION UNIT (G2-EXP-12)	
BACK BOX FOR GYP CEILINGS ONLY	26	G2 LED SPEAKER (G2-LVL-HC-70)	
BACK BOX FOR WIREWAY	3	G2 MESSAGE SIGN EXTENDED (GSE)	
BACK BOX FOR WIREWAY	7	G2 MESSAGE SIGN STANDARD (GSS)	
NO	3	G2 MS ADAPTOR PLATE DOUBLE (ADP)	
NO	4	G2 STROBE LIGHT	
RACK MOUNT	2	G2 UPS (G2-UPS)	
NO	2	MS-MNT-ART-L (MSML)	
SINGLE-GANG BACK BOX	1	PUSH BUTTON (BLACK)	
SINGLE-GANG BACK BOX	2	PUSH BUTTON (RED)	
4-GANG WALL BACK BOX	12	ROOM REMOTE 2 (RR-2)	
GYP CEILINGS ONLY = 4-GANG BACK BOX	16	SPEAKER FLUSH MOUNT	
BACK BOX & CONDUIT TO ACCBL. LOCATION	9	SPEAKER WEATHER-PROOF	
MOUNT ABOVE CEILING	1	TRANSFORMER	

SYMBOL	DESCRIPTION
[ATX]	G2 ATX STATION CONTROLLER
[EXP]	G2 EXPANSION MODULE
[RR2]	G2 ROOM REMOTE 2
[SR]	G2 SIGN REMOTE
[UPS]	G2 UNINTERRUPTIBLE POWER SUPPLY
[I/O]	G2 I/O REMOTE
[PB]	OEM PUSH BUTTON PB-B (BLACK) PB-R (RED)
[STR]	OEM STROBE LIGHT
[AMP]	OEM AMPLIFIER
[T]	OEM TRANSFORMER
[S]	G2 LED SPEAKER, FLUSH MOUNT
[S]	G2 LED SPEAKER, METAL BOX
[S]	SPEAKER WEATHER-PROOF
[S]	SPEAKER, FLUSH MOUNT
[GSS]	G2 MESSAGE SIGN
[MSML]	ARTICULATING ARM MOUNT FOR GSS
[ADP]	ADAPTER PLATE FOR MSML/GSS



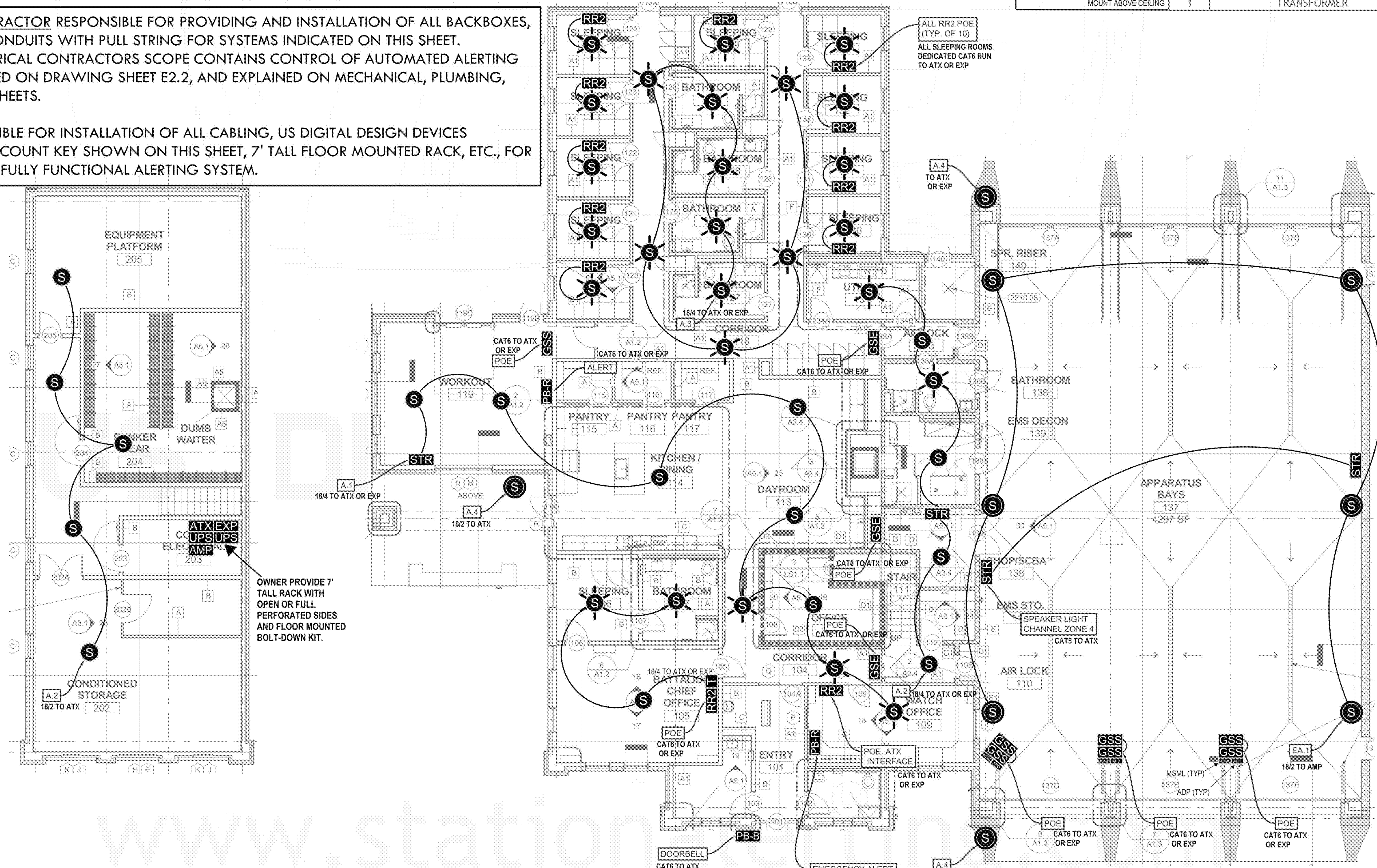
project **GEORGETOWN FIRE DEPARTMENT, TX**

building **FIRE STATION 7**

filename **USDD.GTX.FS07.FSA.DWG**

date **23-Oct-2018**

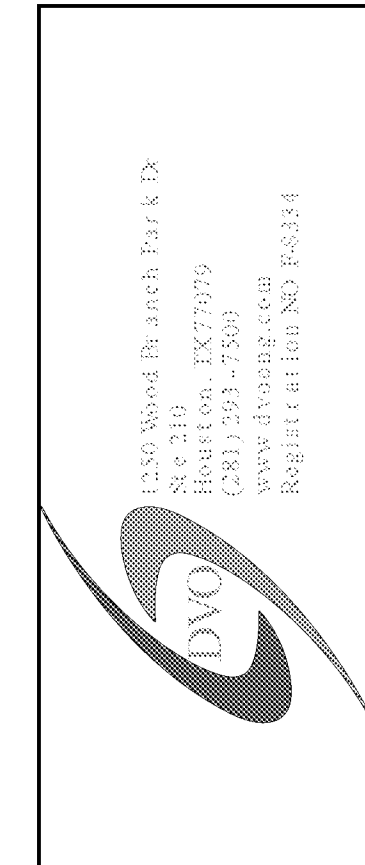
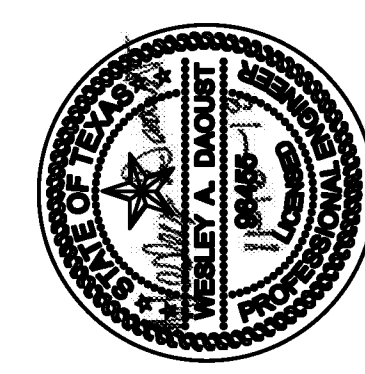
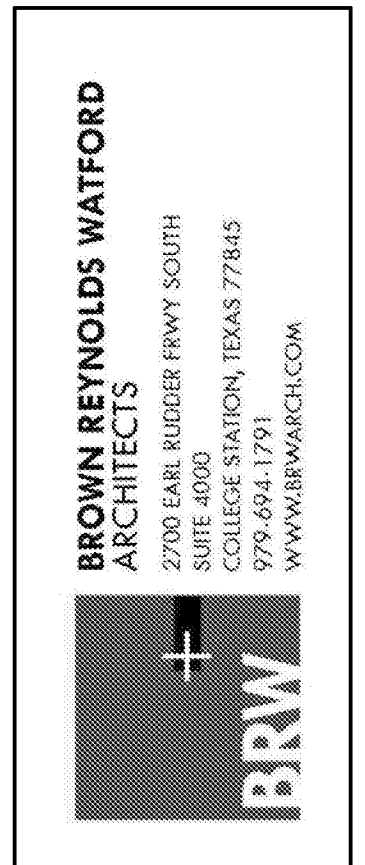
design by **JA**



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COORDINATE WITH ARCHITECT PRIOR TO ORDERING MOUNTING DEVICES FOR GSS IN APPARATUS BAY. BAY DOORS ARE BI-FOLD. SPECIAL MOUNTING WILL BE REQUIRED.

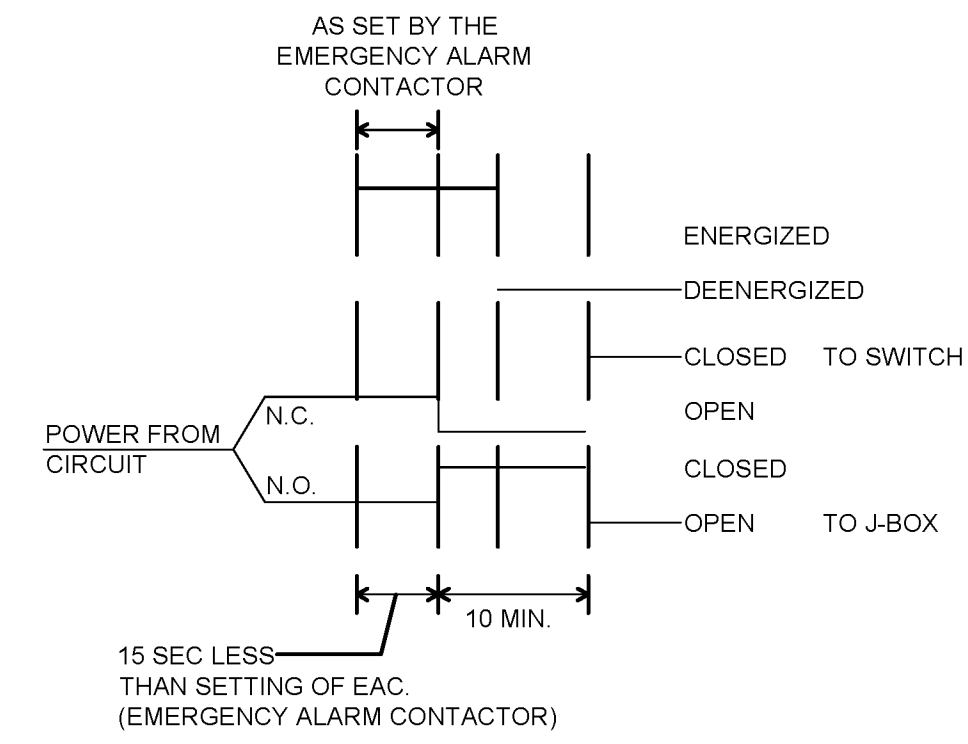
POE = USDD device connects to G2 ATX Power-Over-Ethernet (POE) port 1 thru 8 or G2 Expansion Module(s) ports 1 thru 12
 A.n = G2 ATX Amplifier 1...4
 EA.n = G2 External Amplifier 1...n



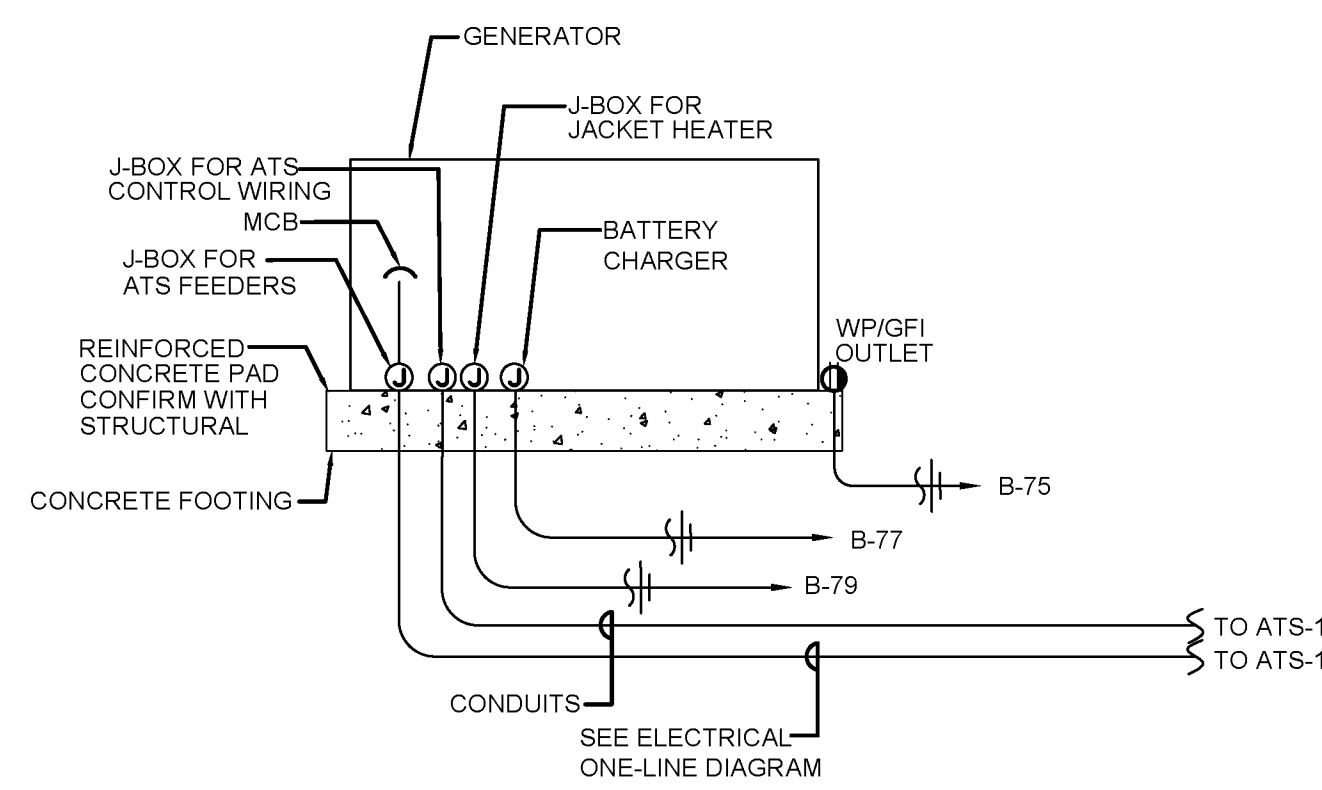
BROWN REYNOLDS WATFORD ARCHITECTS, INC.
 DATE 11/16/2018
 DRAWN BY KM
 CHECKED BY JF
 BRW PROJECT NUMBER 218044.00

CITY OF GEORGETOWN
 FIRE STATION No. 7
 2703 EAST STATE HIGHWAY 29
 GEORGETOWN, TX 78626

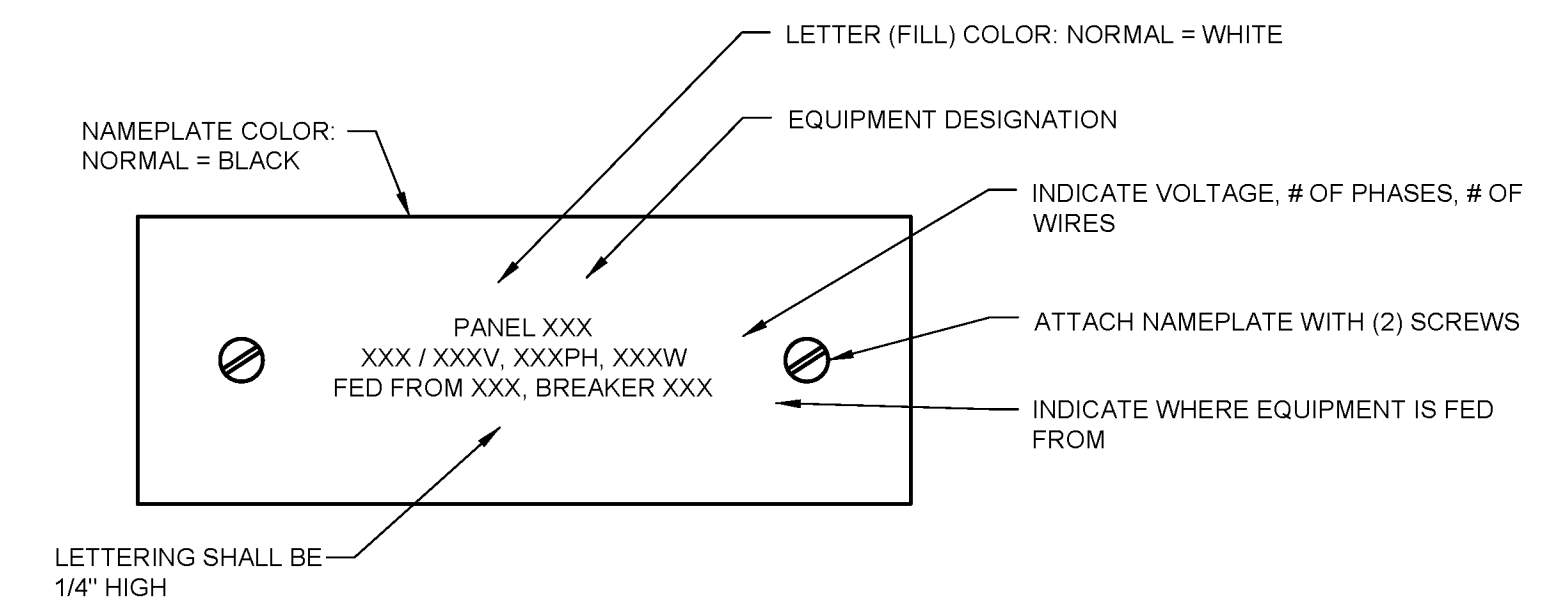
NO.	REVISION	DATE



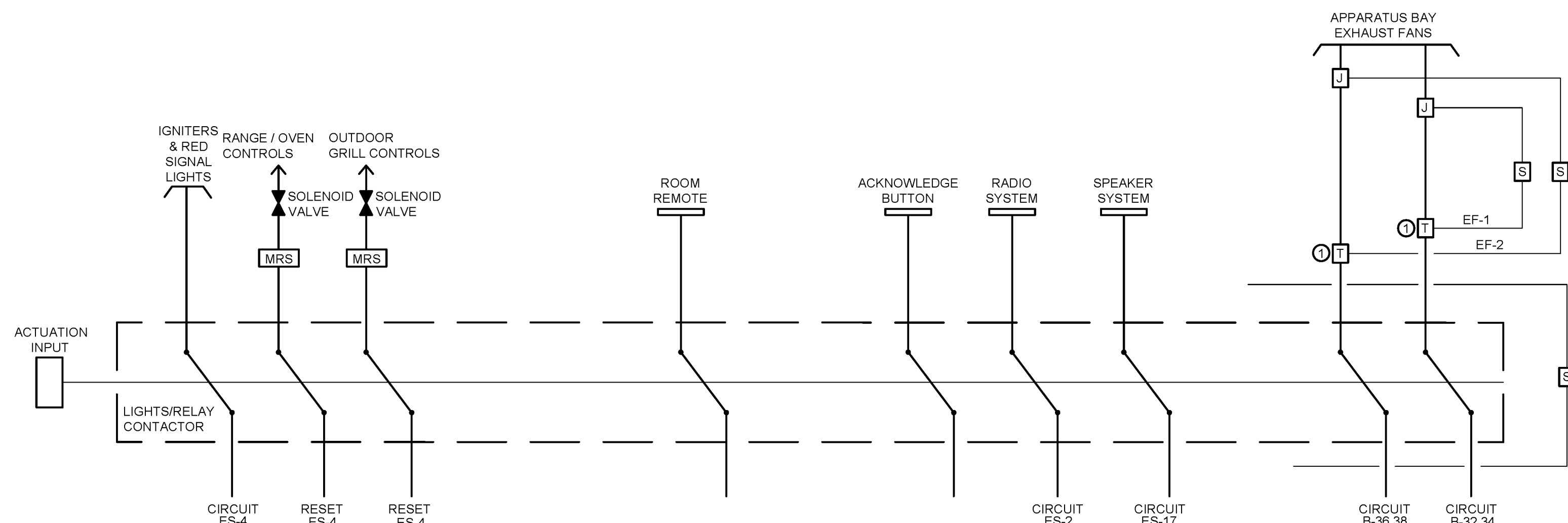
02 FAN TIMER FOR EXHAUST FANS EF-1 & EF-2
NOT TO SCALE



03 GENERATOR DETAIL
NOT TO SCALE

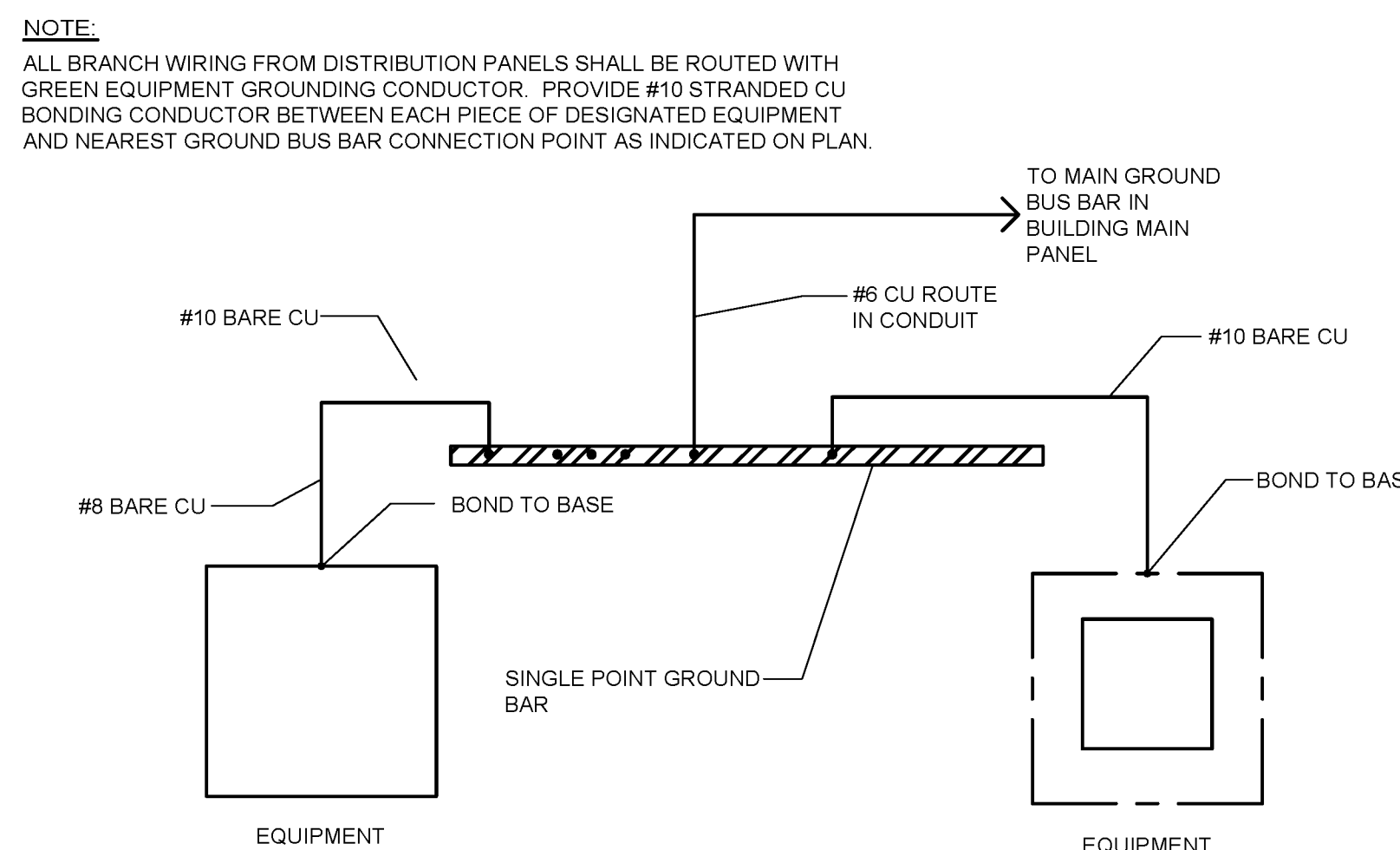


04 PANELBOARD NAMEPLATE DETAIL
NOT TO SCALE

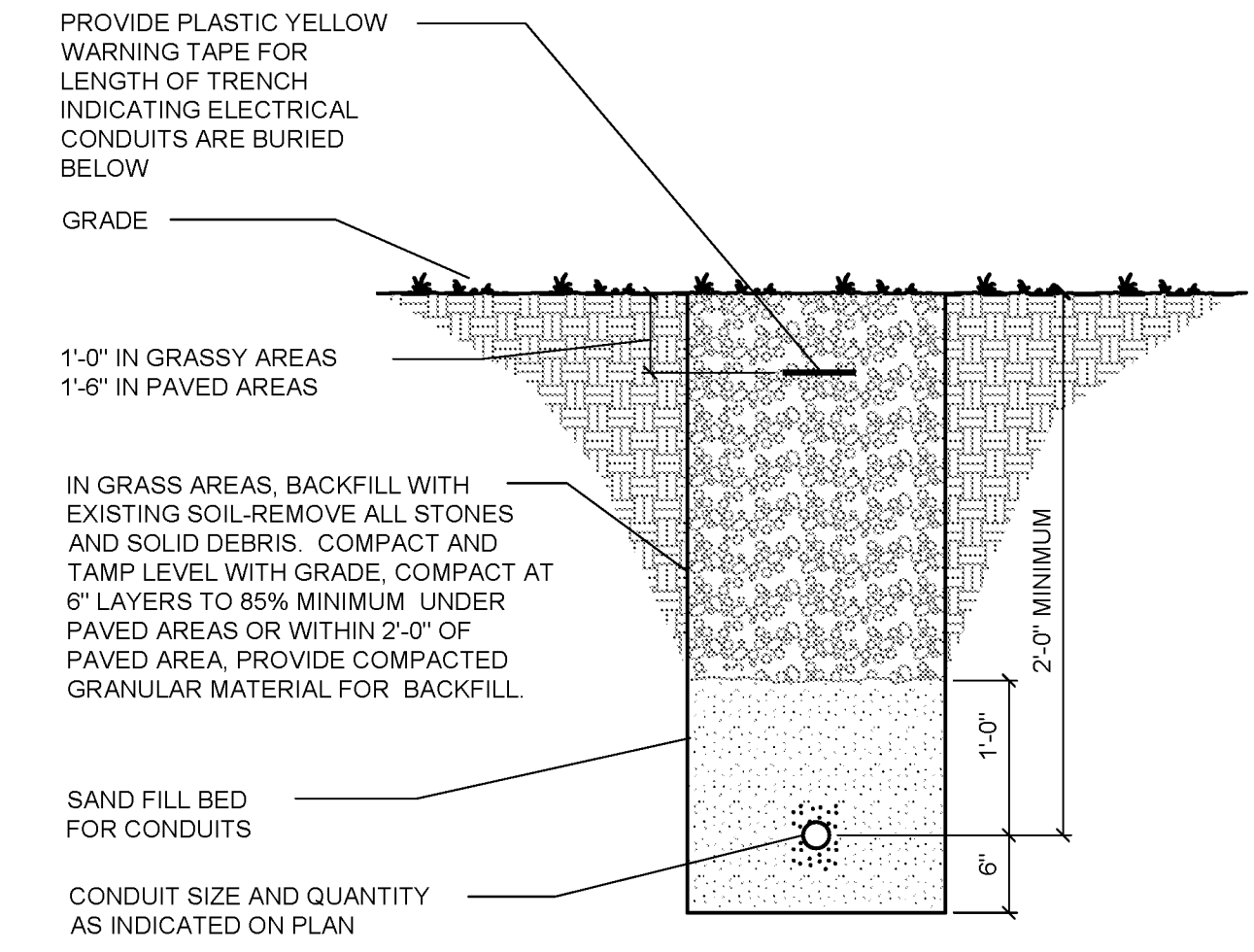


- KEYED NOTES:**
- 1. ON-DELAY / OFF-DELAY FAN TIMER. SEE FAN TIMER DETAIL FOR SEQUENCE OF OPERATION.
 - 2. SEE KEYED NOTE TO SHEET E1.1 FOR SEQUENCE OF OPERATION ON GAS SOLENOID VALVE.
 - 3. CONTRACTOR TO PROVIDE AND INSTALL CONTACTOR, FAN TIMER, RELAY CONTROLS TO ENSURE A FULLY FUNCTIONAL SYSTEM.
 - 4. SEE SPEAKER ONE LINE AND FAN TIMER DETAIL THIS SHEET FOR APPARATUS BAY EXHAUST FAN SEQUENCE OF OPERATION AND CONTROLS.
 - 5. SEE DRAWING SHEET E1.6.
 - 6. COORDINATE WITH MECHANICAL PLUMBING, AND ALERTING SYSTEM SUBCONTRACTOR.
- NOTES:**
- 1. SEE KEYED NOTE TO SHEET E1.1 FOR SEQUENCE OF OPERATION ON GAS SOLENOID VALVE.
 - 2. CONTRACTOR TO PROVIDE AND INSTALL CONTACTOR, FAN TIMER, RELAY CONTROLS TO ENSURE A FULLY FUNCTIONAL SYSTEM.
 - 3. SEE SPEAKER ONE LINE AND FAN TIMER DETAIL THIS SHEET FOR APPARATUS BAY EXHAUST FAN SEQUENCE OF OPERATION AND CONTROLS.
 - 4. SEE DRAWING SHEET E1.6.
 - 5. COORDINATE WITH MECHANICAL PLUMBING, AND ALERTING SYSTEM SUBCONTRACTOR.
- LEGEND:**
- [S] WALL SWITCHES
 - [J] JUNCTION BOX
 - [T] FAN TIMER ON DELAY / OFF DELAY

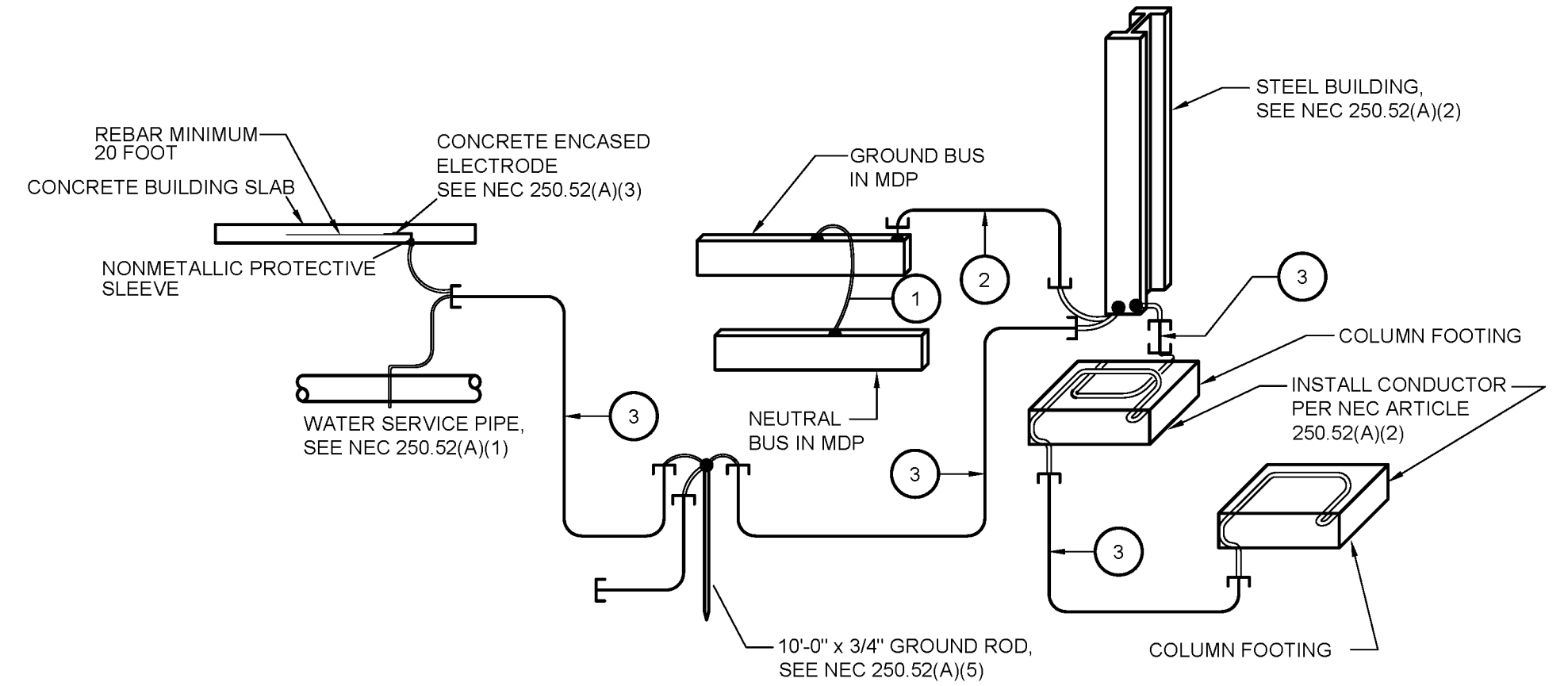
05 EMERGENCY ALARM SCHEMATIC
NOT TO SCALE



06 SINGLE POINT GROUNDING DIAGRAM
NOT TO SCALE



07 CONDUIT TRENCH DETAIL
NOT TO SCALE



- KEYED NOTES:**
- 1. BARE COPPER MAIN BONDING JUMPER PER NEC 250.28.
 - 2. BARE COPPER GROUNDING ELECTRODE CONDUCTOR PER NEC 250.66.
 - 3. BARE COPPER GROUNDING ELECTRODE BONDING JUMPER PER NEC 250.53.
- GENERAL NOTES:**
- ALL GROUNDING ELECTRODES AS DESCRIBED IN THE NATIONAL ELECTRICAL CODE, 2014 EDITION, SECTION 250.52(A)(1) THROUGH (A)(6), THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. GROUNDING ELECTRODES AS DESCRIBED IN THE NATIONAL ELECTRICAL CODE, 2014 EDITION, SECTIONS 250.52 (A)(1), (A)(2), (A)(3), AND (A)(7), SHALL BE SUPPLEMENTED WITH A ROD ELECTRODE AS DESCRIBED IN SECTION 250.52 (A)(5)(d). WHERE NO OTHER GROUNDING ELECTRODE IS PRESENT A ROD ELECTRODE SHALL BE PERMITTED TO BE THE SOLE GROUNDING ELECTRODE.
- EXCEPTION: CONCRETE-ENCASED ELECTRODES OF EXISTING BUILDINGS OR STRUCTURES SHALL NOT BE REQUIRED TO BE PART OF THE GROUNDING ELECTRODE SYSTEM WHERE THE STEEL REINFORCED BARS OR RODS ARE NOT ACCESSIBLE FOR USE WITHOUT DISTURBING THE CONCRETE.

08 GROUNDING ELECTRODE SYSTEM DETAIL
NOT TO SCALE

NO.	REVISION	DATE