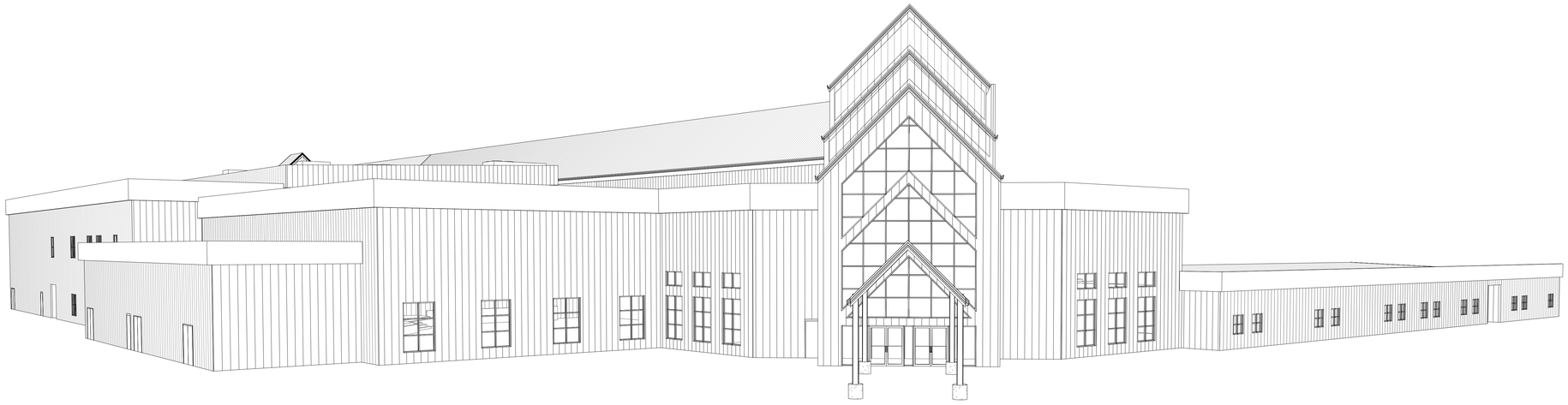
EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011
100% CONSTRUCTION DOCUMENTS

BID SET



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REVISIONS

CODE INFORMATION

APPLICABLE CODES

INTERNATIONAL BUILDING CODE 2018
INTERNATIONAL EXISTING BUILDING CODE 2018
INTERNATIONAL FIRE CODE 2018
INTERNATIONAL MECHANICAL CODE 2018
INTERNATIONAL PLUMBING CODE 2018
NATIONAL ELECTRICAL CODE 2017
INTERNATIONAL FUEL GAS CODE 2018
1991 AMERICANS WITH DISABILITIES ACT (ADA)
2009 ANSI A117.1
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

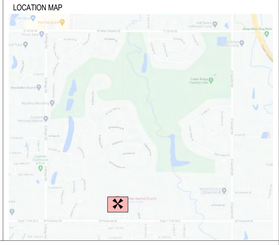
GROUP CLASSIFICATION (CHAPTER 3)

PRIMARY	ASSEMBLY (A-3)
ACCESSORY	EDUCATION (E)
ACCESSORY	BUSINESS (B)
ACCESSORY	STORAGE (S)

4. CONSTRUCTION TYPE (CHAPTER 6 - SECTION 602)

ACTUAL TYPE PROVIDED	EXISTING	IIB
	NEW	IIB

LOCATION MAP



CONTRACTOR

LOWRY CONSTRUCTION SERVICES

1729 S. BOSTON AVE.
TULSA, OK 74119
918.592.2442

MEP ENGINEERING

V2 ENGINEERING, LLC

3134 E 15TH STREET
TULSA, OK 74104
918.560.9007

STRUCTURAL ENGINEERING

SNOWDEN ENGINEERING, INC.

8128 EAST 63RD
TULSA, OK 74133
918.252.4557

CIVIL ENGINEERING

NATIVE STRATEGIES, LLC

12559 S. 198TH EAST AVE
BROKEN ARROW, OK 74014
918.640.6656

ARCHITECT

REED ARCHITECTURE & INTERIORS

18 E. Hobson Ave.
Sapulpa, OK 74066
918-884-6007

04.09.2025

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ABBREVIATIONS

#15	NUMBER 15
15#	15 POUNDS
&	AND
<	ANGLE
@	AT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
CF	CUBIC FOOT
CIRC	CIRCUMFERENCE
CJ	CONTROL JOINT
CMU	CONCRETE MASONRY UNIT
CO	CLEAN-OUT
COL	COLUMN
CY	CUBIC YARD
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DS	DOWNSPOUT
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EQ	EQUAL
EX	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISHED FLOOR ELEVATION
FHC	FIRE HOSE CABINET
FIN	FINISHED
FND	FOUNDATION
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
ID	INSIDE DIAMETER
IDB	INTERACTIVE WHITEBOARD
IN	INCHES
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
LAV	LAVATORY
LP	LOW POINT
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPH	OPPOSITE HAND
OPP	OPPOSITE
OZ	OUNCE
PA	PUBLIC ADDRESS
PCF	POUNDS PER CUBIC FOOT
PER	PERIMETER
PLAM	PLASTIC LAMINATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REV	REVISION
RO	ROUGH OPENING
SF	SQUARE FOOT/FEET
SIM	SIMILAR
SQ	SQUARE
SS	STAINLESS STEEL
STOR	STORAGE
SUSP	SUSPENDED
SY	SQUARE YARD
SYM	SYMMETRICAL
T&G	TONGUE AND GROOVE
TEL	TELEPHONE
TOS	TOP OF STEEL
TSL	TOP OF SLAB
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WP	WORKING POINT

DIMENSIONING CONVENTIONS

A. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF THE WORK AT THE "APPROXIMATE LOCATION SHOWN", DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.

B. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE ALL DIMENSIONS REQUIRED ARE SHOWN (OR MAY BE DERIVED FROM THOSE SHOWN OR NOTED) ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, SCHEDULES, CONFIGURATION DETAILS, AND SPECIFICATIONS SEE THE NOTES BELOW AND SYMBOLS THIS SHEET FOR DIMENSIONING CONVENTIONS USED ON THIS PROJECT.

C. EXCEPT WHERE SPECIFICALLY NOTED TO THE CONTRARY, ALL DIMENSIONS SHOWN ON THE ARCHITECTURAL DRAWINGS CONFORM TO THE FOLLOWING CONVENTIONS:

1. DIMENSIONS UTILIZING THE "CENTERLINE" SYMBOL ARE MEASURED TO:
   a. STRUCTURAL OR DIMENSIONAL GRID LINES.
   b. CENTERLINE OF CONCRETE OR CONCRETE MASONRY UNIT WALLS (EXCLUSIVE OF FURRING OR APPLIED FINISHES HAVING THICKNESS). REFER TO THE ARCHITECTURAL PLANS AND SECTIONS, THE STRUCTURAL DRAWINGS, OR PARTITION SCHEDULE TO DETERMINE THE THICKNESS OF CONCRETE OR CONCRETE MASONRY UNIT WALLS.
   c. CENTERLINE OF PARTITION ASSEMBLY (EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE APPLIED TO SUCH WALLS) AT PARTITIONS FRAMED WITH METAL STUDS. REFER TO " PARTITION SCHEDULE" TO DETERMINE THE THICKNESS OF EACH PARTITION TYPE.
   d. CENTERLINE OF DOOR, WINDOW, OR LOUVER OPENING.
   e. CENTERLINE OF EQUIPMENT OR FURNISHING.
   f. CENTERLINE OF OTHER FEATURES AS INDICATED.
2. REFER TO THIS SHEET FOR SYMBOL USED TO INDICATE CENTERLINE DIMENSION.
3. DIMENSIONS UTILIZING THE "FACE OF" SYMBOL ARE MEASURED TO:
   a. FACE OF CONCRETE OR CONCRETE MASONRY UNIT WALL (EXCLUSIVE OF APPLIED FINISHES HAVING THICKNESS OR FURRING WHICH MAY BE ADDED TO THE FACE OF SUCH WALLS).
   b. FACE OF PARTITION ASSEMBLY (EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALL) AS DEFINED BY THE PARTITION SCHEDULE UNLESS NOTED AS A "FACE OF FINISH" OR "CLEAR" DIMENSION (SEE NOTE "E" BELOW), DIMENSIONS ARE NOT MEASURED TO THE FACE OF APPLIED FINISH. REFER TO THE "PARTITION SCHEDULE" TO DETERMINE THE THICKNESS OF EACH PARTITION TYPE.
4. REFER TO THIS SHEET FOR SYMBOL USED TO INDICATE "FACE OF" DIMENSION
5. WHERE "FACE OF FINISH" OR "CLEAR" DIMENSIONS ARE SPECIFICALLY NOTED, THE DIMENSION IS MEASURED TO:
   a. FINISH FACES AT THE MOST NARROW OR CONSTRICTED POINTS OF SECTION WHERE DIMENSION IS SHOWN. WHEN THE DIMENSION OCCURS ACROSS AN OPEN SPACE, THIS CASE, A "FACE OF FINISH" DIMENSION IS EQUIVALENT TO A "CLEAR" DIMENSION.
   b. FINISH FACES AT THE WIDEST OR MOST EXPANSIVE POINT OF THE SECTION THE DIMENSION IS SHOWN WHEN THE DIMENSION OCCURS ACROSS AN OBJECT OR GROUP OF OBJECTS.
6. WHERE "EQUAL" DIMENSIONS ARE USED ON REFLECTED CEILING PLANS TO LOCATE CEILING GRID WORK POINTS, MEASURE DIMENSIONS TO:
   a. EDGE OF THE INDICATED CEILING AT THE FACE OF THE ADJACENT APPLIED FINISH MEASURED AT THE PLANE OF THE CEILING.
   b. CAUTION: DUE TO THE POSSIBLE APPLICATION OF APPLIED FINISHES - THICKNESS WHICH MAY VARY BETWEEN FLOOR AND CEILING AND IS NOT ACCOUNTED FOR (EXCEPT AS INDICATED BY "CLEAR") BY THE DIMENSION SHOWN ON THE FLOOR PLANS - THE CONSTRUCTION MANAGER/ CONTRACTOR MUST ADJUST, AS NECESSARY, THE FLOOR PLAN DIMENSIONS TO REFLECT THE ACTUAL DIMENSIONS FOUND AT THE PLANE OF THE CEILING.

D. WHERE DIMENSIONS ARE NOT PROVIDED ON FLOOR PLANS TO LOCATED DOOR OPENINGS, APPLY THE FOLLOWING RULES, IN ORDER TO DETERMINE THE LOCATION OF DOOR OPENINGS (REFER DIAGRAM 1a):

1. DOOR OPENINGS MAY BE DIMENSIONED ON DRAWINGS OTHER THAN THE FLOOR PLANS. REFER TO THE SECTIONS, ELEVATIONS, DETAILS, AND DOOR SCHEDULE NOTES FOR ADDITIONAL DIMENSIONAL INFORMATION.
2. WHERE THE HINGE - SIDE OF A DOOR IS SHOWN ADJACENT TO A WALL - OR WALLS - PERPENDICULAR TO THE WALL IN WHICH THE DOOR OPENING OCCURS:
   a. AT DOORS OCCURRING IN METAL FRAMED GYPSUM BOARD PARTITIONS, LOCATE THE HINGE SIDE OF THE DOOR FINISHED OPENING 4" FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.
   b. AT DOORS OCCURRING IN WALLS OF CONCRETE MASONRY UNIT CONSTRUCTION, LOCATE THE HINGE SIDE OF THE DOOR FINISHED OPENING 8" FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.
   c. WHERE DOOR OCCURS NOT ADJACENT TO A PERPENDICULAR WALL AND EITHER "DIM E" OR "DIM F" IS 16'-0" OR LESS, LOCATED DOOR UTILIZING THE FOLLOWING MINIMUM DIMENSIONS:

DIMENSION A	=	18" MIN.
DIMENSION B	=	12" MIN.
DIMENSION C	=	DOOR WIDTH + 2" MIN.
DIMENSION D	=	6" MIN. AT METAL FRAMED GYPSUM BOARD PARTITIONS OR - EVEN MULTIPLES OF 1/2". CONCRETE MASONRY UNIT MODULE PLUS 2" AT CONCRETE MASONRY UNIT PARTITIONS
DIMENSIONS E AND F	=	AS SHOWN ON PLANS
DIMENSION G	=	36" MIN.
DIMENSION H	=	60" MIN.

   IF SPACE ALLOWS, CENTER DOOR IN WALL SHOWN ON THE DRAWINGS SO THAT EITHER "DIM A" EQUALS "DIM C" OR DIM B" EQUALS "DIM D"
   d. WHERE DOOR IS SHOWN LOCATED IN A LARGE EXPANSE OF OPEN WALL ("DIM E" AND "DIM F" IN DIAGRAM 1a BOTH EXCEED 16'-0"), PLACE DOOR AT APPROXIMATE LOCATION SHOWN ON THE PLANS. WHERE DOOR OCCURS IN CMU WALL, PLACE DOOR AT APPROXIMATE LOCATION SHOWN WHILE MINIMIZING "CUT" OR PARTIAL CMU MODULES ADJACENT THE JAMBS.

E. WHERE WALLS AND/ OR PARTITIONS OF UNEQUAL THICKNESS ABUT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED

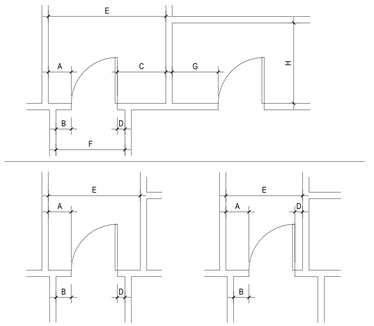
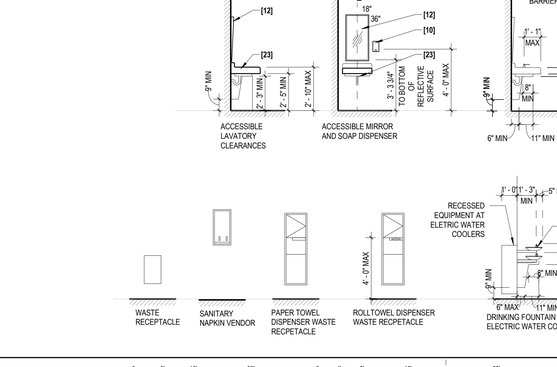


DIAGRAM 1a

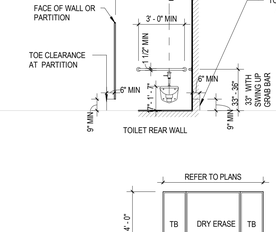
GENERAL NOTES

1. ALL DOCUMENTS WERE PREPARED BASED ON A REVIEW OF AVAILABLE RECORD DATA SUPPLIED BY THE OWNER. IN THE EVENT THAT UNFORSEEN UTILITIES, STRUCTURES OR CONDITIONS ARE DISCOVERED DURING CONSTRUCTION, THE ARCHITECT IS TO BE NOTIFIED IMMEDIATELY.
2. CONTRACTOR SHALL PRESENT A PROJECT STAGING PLAN TO THE OWNER AND PROJECT ARCHITECT PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ISSUES SUCH AS SITE ACCESS, LAY DOWN/STORAGE AREAS, PARKING AND PROJECT SEPARATION FROM EXISTING FACILITIES.
3. SITE OPERATIONS SHALL COMPLY WITH ALL REGULATIONS OF THE AUTHORITY(IES) HAVING JURISDICTION ESPECIALLY REGARDING SITE RUN-OFF CONTAINMENT, HOURS OF OPERATION, TRAFFIC AND ALL OTHER REGULATIONS PERTAINING TO NEW CONSTRUCTION PROJECTS.
4. CONTRACTOR IS ADVISED TO REVIEW GENERAL NOTES OF THE OTHER DESIGN DISCIPLINES CONTAINED IN THESE CONTRACT DOCUMENTS AND TO COORDINATE WITH VARIOUS TRADES AS REQUIRED IN THOSE GENERAL NOTES.
5. CONSTRUCTION OF THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH ALL CURRENT APPLICABLE BUILDING CODES AND REGULATIONS OF THE AUTHORITY(IES) HAVING JURISDICTION INCLUDING THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).
6. CONSTRUCTION DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY ONE TO THE OTHER, NEITHER TAKES PRECEDENCE OVER THE OTHER. IN CASE OF A CONFLICT, THE PROJECT ARCHITECT WILL EVALUATE AND DETERMINE A SOLUTION. GENERALLY, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.
7. CONTRACT DOCUMENTS ARE INSTRUMENTS OF SERVICE ONLY. THEY ARE GRAPHIC AND WRITTEN REPRESENTATION OF THE GENERAL SCOPE OF THE FINISHED PROJECT AND DO NOT NECESSARILY INDICATE ALL WORK OR DETAILS REQUIRED FOR A FINISHED PROJECT. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL, EQUIPMENT AND LABOR NECESSARY FOR A COMPLETED PROJECT
8. FOR WORK NOTED AS "PROVIDED BY OTHERS" OR "FURNISHED BY OWNER" CONTRACTOR SHALL COORDINATE AND PROVIDE SERVICES WITH THAT PROVIDER/FURNISHER FOR A FINISHED AND OPERABLE INSTALLATION.
9. ENLARGED PLANS AND DETAILS TAKE PRECEDENCE OVER SMALL SCALE PLANS AND ELEVATIONS. DO NOT SCALE DRAWINGS. DIMENSION CONFLICTS SHALL BE BROUGHT TO THE PROJECT ARCHITECT FOR RESOLUTION.
10. EXISTING SITE COMPONENTS NOT SCHEDULED FOR DEMOLITION INCLUDING EXISTING LANDSCAPING ARE TO BE PROTECTED DURING CONSTRUCTION OPERATIONS. ITEMS DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED OR REPAIRED TO OWNER'S SATISFACTION.
11. HEIGHTS AND ELEVATIONS SHALL BE MEASURED FROM FINISHED FLOOR UNLESS OTHERWISE NOTED. CONTRACTORS SHALL ENSURE FINISH MATERIALS WILL BE FLUSH WITH ADJACENT SURFACES AND JOINTS. (EXCEPT WHERE INDICATED OTHERWISE.)
12. DIMENSIONS ARE TO FACE OF STUD, SUBTRATE OR MASONRY. DIMENSIONS ARE TO THE CENTERLINE OF COLUMNS AND GRIDS. DIMENSIONS IN MASONRY WALLS AND PARTITIONS ARE TO THE ROUGH OPENINGS OF DOORS, WINDOWS AND OTHER SCHEDULED OPENINGS.
13. PENETRATIONS OF FIRE RATED WALL AND FLOOR ASSEMBLIES SHALL BE FIRESTOPPED WITH THROUGH PENETRATION FIRESTOP SYSTEMS.
14. COORDINATE ACCESS DOOR LOCATIONS AND MISCELLANEOUS WALL PENETRATIONS (FOR CONCEALED ITEMS) WITH APPROPRIATE CONTRACTORS.
15. THE TERM "TYPICAL" OR TYP AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS THE SAME FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED.
16. REFER TO THE ABBREVIATIONS LIST FOR ABBREVIATIONS THROUGHOUT THE CONTRACT DOCUMENTS
17. ARCHITECTURAL ELEVATION = 100'-0"
18. NON ARCHITECTURAL WORK QUANTIFIED AND SPECIFIED ON OTHER DRAWINGS SHALL BE LOCATED ACCORDING TO THE ARCHITECTURAL DRAWINGS UNLESS OTHERWISE NOTED OR DIMENSIONED. ANY WORK THAT IS NOT LOCATED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AS SOON AS POSSIBLE.
19. UNLESS MARKED OTHERWISE, ALL PIPING, DUCTWORK, CONDUIT AND STRUCTURAL ELEMENTS ARE TO BE CONCEALED. STRUCTURAL AND OTHER ELEMENTS SCHEDULED TO REMAIN EXPOSED SHALL RECEIVE APPROPRIATE PROTECTIVE COATINGS WHETHER INCLUDED IN SPECIFICATIONS OR NOT.
20. EXPOSED PROTRUDING ELEMENTS SUCH AS SILLS, LEDGES, SOLID SURFACE CAPS, SHELVES, DOOR TOPS AND BOTTOMS, MILLWORK SHALL BE FINISHED THE SAME THROUGHOUT.
21. CONTRACTOR SHALL COOPERATE WITH OWNER DURING CONSTRUCTION TO ENSURE LEAST POSSIBLE INTERRUPTION OF ON-GOING OPERATIONS. CONTRACTOR SHALL COORDINATE DATES AND TIMES OF SITE ACCESS REQUIRED BY OWNER'S SCHEDULE OF OPERATIONS. INTERRUPTION OF EXISTING SITE UTILITIES ARE FURTHER DESCRIBED IN CONSTRUCTION SPECIFICATION DIVISIONS.
22. CONSTRUCTION ITEMS SHOWN AS 'DELEGATED DESIGN' REQUIRE COORDINATION AND INCORPORATION BY THE CONTRACTOR AND ARE NOT STAND-ALONE ITEMS NECESSARILY. CONTRACTOR AND SUPPLIER SHALL COORDINATE REQUIREMENTS TO PROVIDE A COMPLETE AND OPERABLE INSTALLATION.
23. REQUESTS FOR INFORMATION WITH INTERPRETATION READILY AVAILABLE IN CONTRACT DOCUMENTS WILL BE RETURNED TO CONTRACTOR AND NOTED AS 'INFORMATION READILY AVAILABLE'.

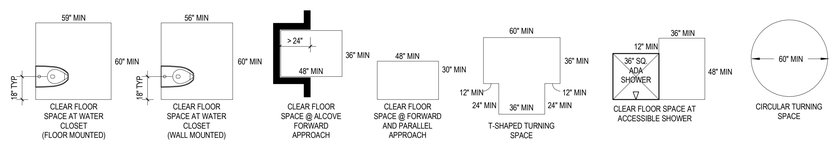
DRAWING SYMBOLS



LINE TYPES LEGEND



ADA - BUILDING BLOCKS FOR ACCESSIBLE CLEARANCES



ADA - ADULT MOUNTING HEIGHTS

1/16"=1'-0" 0 8" 16" 32"
3/32"=1'-0" 0 4" 8" 16" 32"
1/8"=1'-0" 0 4" 8" 16"
1/4"=1'-0" 0 2" 4" 8"
1/2"=1'-0" 0 1' 2' 4'
3/4"=1'-0" 0 1' 2'
1"=1'-0" 0 6" 1' 2'
1 1/2"=1'-0" 0 3" 6" 1'
3"=1'-0" 0 3" 6"

REED ARCHITECTURE & INTERIORS
"The Team You Trust"

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CONSULTANT:

Reference Cover Sheet for Consultant Directory

100% CONSTRUCTION DOCUMENTS 03.03.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

GENERAL ARCHITECTURAL LEGENDS ABBREVIATIONS NOTES AND SYMBOLS. TYPICAL ACCESSORY MOUNTING HEIGHTS AND LOCATIONS

JOB	2023.14
ISSUE	03.03.2025
DRAWN BY:	BG
CHK'D BY:	SE

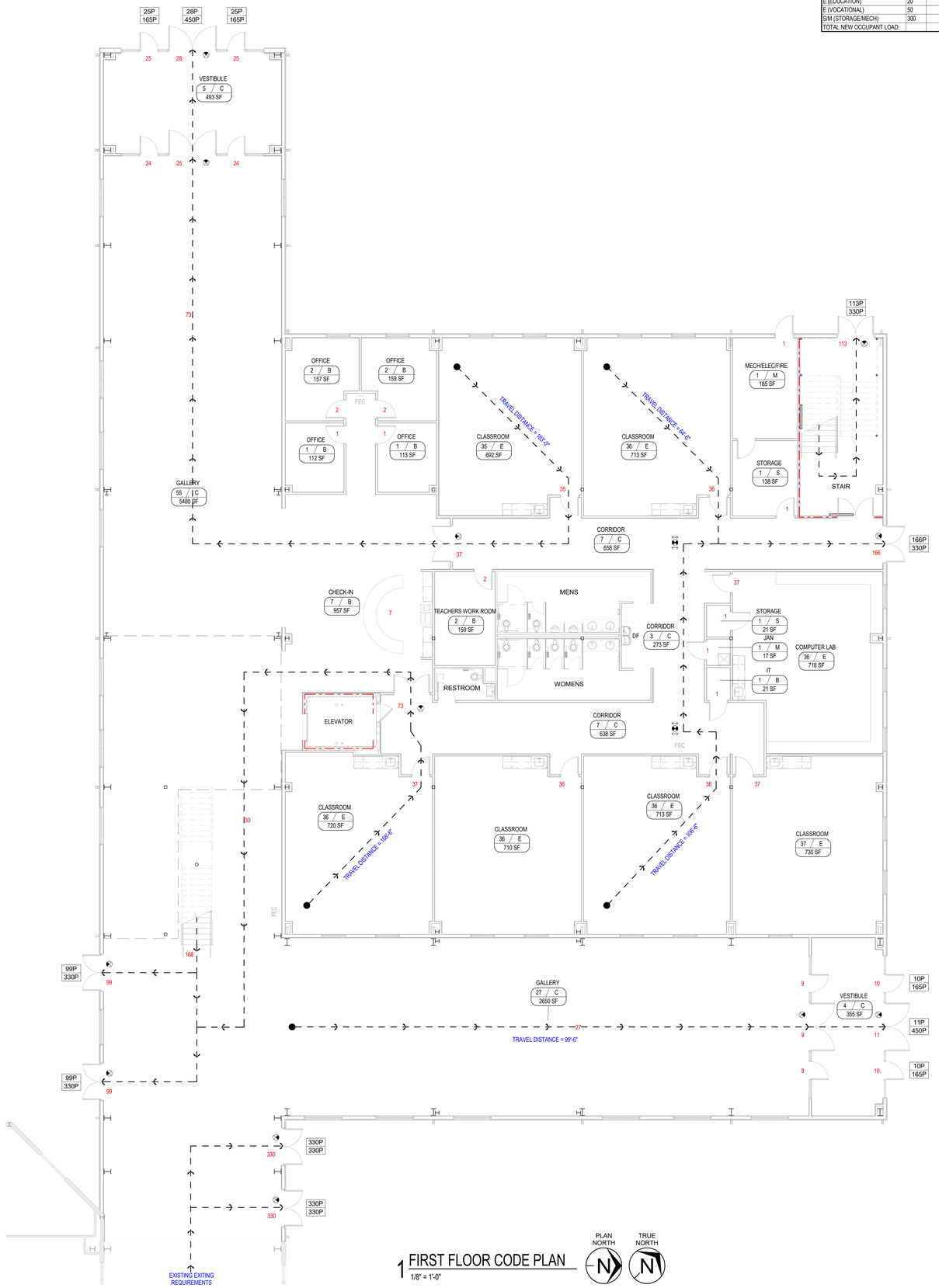
G001

SCALE As indicated

3/3/2025

3/4/2025 11:12:52 AM

B (BUSINESS)	150	22
C (CORRIDOR)	100	133
E (EDUCATION)	20	429
E (VOCATIONAL)	50	28
S/M (STORAGE/MECH)	300	9
TOTAL NEW OCCUPANT LOAD:		621



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

CODE REFERENCE PLAN LEGEND

ROOM OCCUPANCY LOAD TAG
Name
200 / B
20,000
- OCCUPANCY LOAD (PEOPLE) / ROOM NAME
- OCCUPANCY TYPE
- ROOM AREA

EXIT CAPACITY TAG
100P
165P
- ACTUAL EGRESS CAPACITY (PEOPLE)
- ALLOWABLE EGRESS CAPACITY (PEOPLE)

125 / 200 / 75 — DIRECTION OF TRAVEL WITH ACCUMULATED OCCUPANCY LOAD

75'-0" — COMMON PATH TRAVEL DISTANCE

250'-0" — EXIT ACCESS TRAVEL DISTANCE

F.E.(C) — FIRE EXTINGUISHER (CABINET)

DF — DRINKING FOUNTAIN

1 HOUR FIRE RATED WALL TIGHT TO DECK ABOVE (SMOKE TIGHT)

CODE INFORMATION

1. GENERAL INFORMATION

LOCATION: BROKEN ARROW, OKLAHOMA
AUTHORITY HAVING JUSRISDICTION: CITY OF BROKEN ARROW, OKLAHOMA
PROJECT DESCRIPTION: SPRINKLERED ADDITION OF 30,371 SF TO EXISTING CHURCH BUILDING

2. APPLICABLE CODES

INTERNATIONAL BUILDING CODE 2018
INTERNATIONAL EXISTING BUILDING CODE 2018
INTERNATIONAL FIRE CODE 2018
INTERNATIONAL MECHANICAL CODE 2018
INTERNATIONAL PLUMBING CODE 2018
NATIONAL ELECTRICAL CODE 2017
INTERNATIONAL FUEL GAS CODE 2018
1991 AMERICANS WITH DISABILITIES ACT (ADA)
2009 ANSI A117.1
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

3. USE AND OCCUPANCY CLASSIFICATION (CHAPTER 3)

PRIMARY	ASSEMBLY (A-3)
ACCESSORY	EDUCATION
ACCESSORY	BUSINESS
ACCESSORY	STORAGE

5. BUILDING HEIGHT AND AREAS (CHAPTER 5 - TABLE 504.3, 504.4)

ALLOWABLE HEIGHT SPRINKLERED (STORY/FEET)	3 STORY/ 75 FEET
ACTUAL HEIGHT (STORY/FEET)	2 STORY/ 68 FEET
STORIES ABOVE GRADE	2 STORY

A. ALLOWABLE AREA - UNLIMITED - (SECTION 507)
B. ACTUAL AREA

EXISTING CONSTRUCTION	153,800 SQ. FT.
NEW CONSTRUCTION	30,371 SQ. FT.
TOTAL FLOOR	184,171 SQ. FT.

6. BUILDING CONSTRUCTION CLASSIFICATION (CHAPTER 6 - SECTION 602)

ACTUAL TYPE PROVIDED EXISTING	IIB
NEW	IIB

FIRE RESISTANCE RATING REQUIREMENTS (CHAPTER 6 - TABLE 601)

STRUCTURAL FRAME (COLUMNS, GIRDERS, & TRUSSES	0 HRS
BEARING EXTERIOR WALLS	0 HRS
BEARING INTERIOR WALLS	0 HRS
NON-BEARING EXTERIOR WALLS	0 HRS
NON-BEARING INTERIOR WALLS	0 HRS
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0 HRS
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0 HRS

7. INTERIOR FINISHES (CHAPTER 8 - TABLE 803.13)

CLASS A = FLAME SPREAD INDEX 0-25; SMOKED DEVELOPED INDEX 0-450
CLASS B = FLAME SPREAD INDEX 26-75; SMOKED DEVELOPED INDEX 0-450
CLASS C = FLAME SPREAD INDEX 76-200; SMOKED DEVELOPED INDEX 0-450
TABLE 803.9 CORRIDOR ROOMS /ENCLOSED SPACES
A-3 = B / C
B = C / C

8. FIRE PROTECTION (CHAPTER 9)

ENTIRE FACILITY - FULL SUPPRESSION SYSTEM PER 903.2.1.3	YES
PORTABLE SUPPRESSION SYSTEMS 906 (NFPA 10) WITHIN 75 FEET.	YES
EMERGENCY VOICE/ALARMS COMMUNICATION SYSTEM	100 %
MANUAL FIRE ALARM N/REQUIRED-BUILDING IS EQUIPPED W/ SPRINKLER SYSTEM	100 %

10. OCCUPANCY LOAD (CHAPTER 10)

TABLE 1004.12 OCCUPANT LOAD FACTOR

CORRIDOR	100 GROSS
EDUCATIONAL	
CLASSROOMS	20 NET
VOCATIONAL	50 NET
BUSINESS	150 GROSS
STORAGE AND MECHANICAL AREAS	300 GROSS

OCCUPANT LOAD EXISTING	7,075
OCCUPANT LOAD NEW CONSTRUCTION	624
OCCUPANT LOAD TOTAL FACILITY	7,500

EGRESS WIDTH PER OCCUPANT (1005.3.2)
OTHER EGRESS COMPONENTS: 0.2 IN./OCCUPANT

0P 165P 3'-0" DOOR (33" CLR.) — 0P 195P 3'-6" DOOR (39" CLR.)
0P 225P 4'-0" DOOR (45" CLR.) — 0P 330P 6'-0 DOUBLE DOOR (66" CLR.)

EXIT CAPACITY EXISTING	10,020
EXIT CAPACITY NEW CONSTRUCTION	3,540
EXIT CAPACITY TOTAL FACILITY	12,900

TRAVEL DISTANCE REQUIREMENTS (CHAPTER 10) (TABLE 1006.2.1 & 1017.2)

ASSEMBLY (A) & EDUCATION (E) WITH SPRINKLER SYSTEM
- COMMON PATH = 75'-0"
- EXIT ACCESS = 250'-0"

BUSINESS (B) WITH SPRINKLER SYSTEM
- COMMON PATH = 100'-0"
- EXIT ACCESS = 300'-0"

STORAGE (S-2) WITH SPRINKLER SYSTEM
- COMMON PATH = 100'-0"
- EXIT ACCESS = 400'-0"

11. ACCESSIBILITY (CHAPTER 11)

ACCESSIBLE ENTRANCES - (SECTION 1105) AT LEAST 60 PERCENT OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE (1105.1)

TOILET ROOMS (1109.2) AT LEAST ONE OF EACH TYPE OF FIXTURE, ELEMENT, CONTROL OR DISPENSER IN EACH ACCESSIBLE TOILET ROOM SHALL BE ACCESSIBLE. NOTE EXCEPTION 1.

TOILET ROOMS - (1109.2.2) 5 PERCENT OF THE TOTAL SHALL BE ACCESSIBLE.

LAVATORIES - (1109.2.2) 5 PERCENT OF THE TOTAL SHALL BE ACCESSIBLE BUT NO LESS THAN 1.

DRINKING FOUNTAINS - (1109.5.2) NOT FEWER THAN 2 DRINKING FOUNTAINS ONE ACCESSIBLE THE OTHER FOR STANDING

SIGNAGE 1111.1
DIRECTIONAL SIGNAGE: TO TOILETS, AND DRINKING FOUNTAINS

12. INTERIOR ENVIRONMENT (CHAPTER 12)
VENTILATION , TEMPERATURE CONTROL, LIGHTING, YARDS, COURTS, SOUND TRANSMISSION, ROOM DIMENSIONS, SURROUNDING MATERIALS AND RODENT PROOFING ASSOCIATED WITH INTERIOR SPACES OF BUILDINGS

13. ENERGY EFFICIENT (CHAPTER 13)
BUILDING SHALL BE DESIGNED ACCORDANCE WITH THE INTERNATIONAL ENERGY CODE

29. MINIMUM PLUMBING FIXTURE COUNT IBC CHAPTER 29 (IPC CHAPTER 4)

TOTAL FACILITY	624 OCCUPANTS		REQUIRED	PROVIDED
W/C FEMALE	1 PER 75	312 OCCUPANTS	4.16 -	8
W/C MALE	1 PER 150	312 OCCUPANTS	2.08 -	8
LAVATORIES	1 PER 200	624 OCCUPANTS	3.12 -	8
DRINKING FOUNTAINS	1 PER 1000	624 OCCUPANTS	.624 -	2
SERVICE SINKS	1		1 -	2

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EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

CODE INFORMATION AND EGRESS PLAN

JOB 2023.14
ISSUE 03.03.2025
DRAWN BY: BG
CHK'D BY: SE

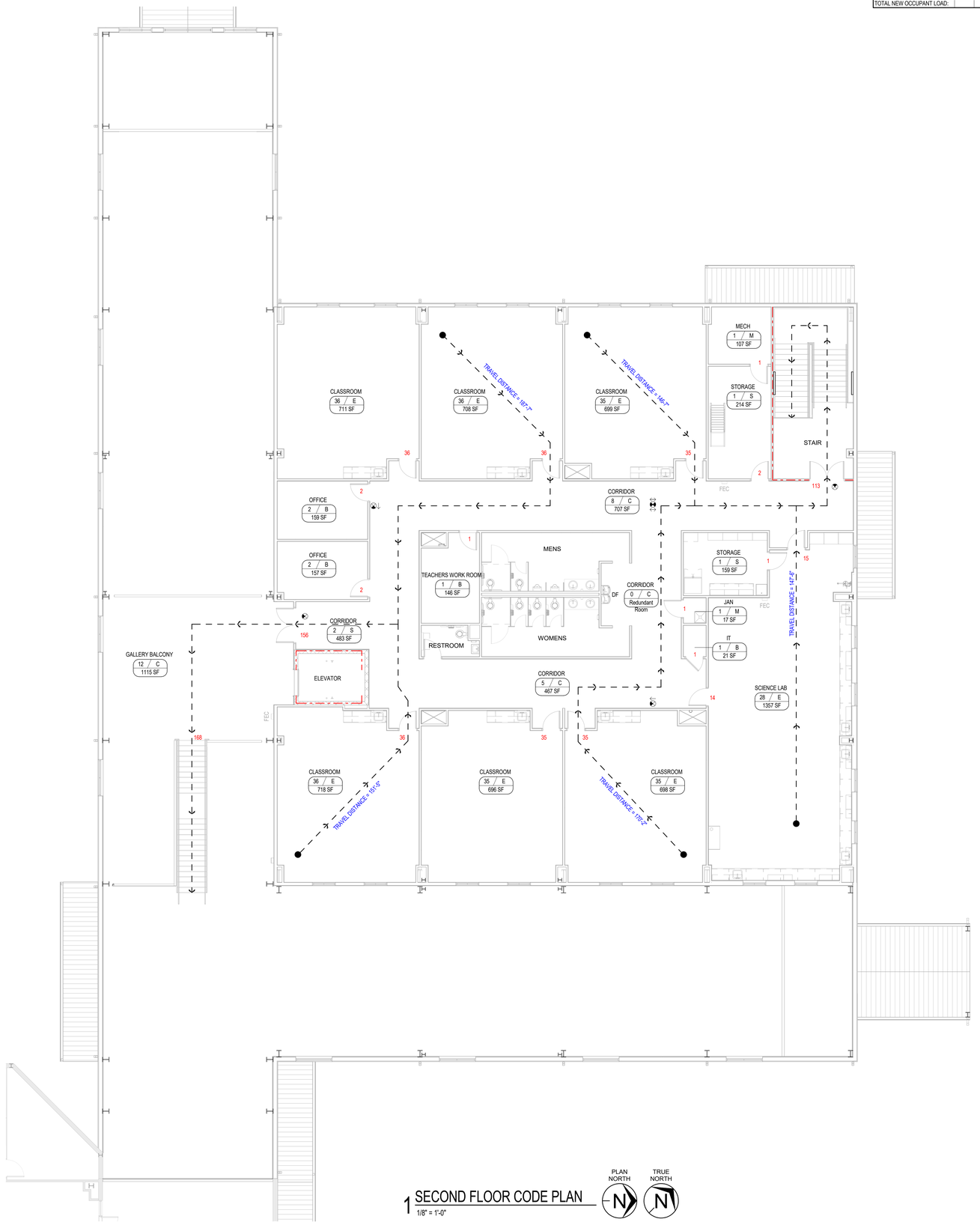
G002

SCALE As indicated

3/3/2025

3/4/2025 11:12:53 AM

B (BUSINESS)	150	22
C (CORRIDOR)	100	133
E (EDUCATION)	20	429
E (VOCATIONAL)	50	28
S/M (STORAGE/MECH)	300	9
TOTAL NEW OCCUPANT LOAD:		621



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

CODE REFERENCE PLAN LEGEND

ROOM OCCUPANCY LOAD TAG
- OCCUPANCY LOAD (PEOPLE) / ROOM NAME
- OCCUPANCY TYPE
- ROOM AREA

EXIT CAPACITY TAG
- 100P — ACTUAL EGRESS CAPACITY (PEOPLE)
- 165P — ALLOWABLE EGRESS CAPACITY (PEOPLE)

DIRECTION OF TRAVEL WITH ACCUMULATED OCCUPANCY LOAD

75'-0" — COMMON PATH TRAVEL DISTANCE

250'-0" — EXIT ACCESS TRAVEL DISTANCE

F.E.(C) — FIRE EXTINGUISHER (CABINET)

DF — DRINKING FOUNTAIN

1 HOUR FIRE RATED WALL TIGHT TO DECK ABOVE (SMOKE TIGHT)

CODE INFORMATION

1. GENERAL INFORMATION

LOCATION: BROKEN ARROW, OKLAHOMA
AUTHORITY HAVING JUSRISDICTION: CITY OF BROKEN ARROW, OKLAHOMA
PROJECT DESCRIPTION: SPRINKLERED ADDITION OF 30,371 SF TO EXISTING CHURCH BUILDING

2. APPLICABLE CODES

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DRAWN BY: BG
CHK'D BY: SE

G003

SCALE As indicated

3/3/2025

3/4/2025 11:12:54 AM

1/16"=1'-0" 0 8" 16" 32"
3/32"=1'-0" 0 4' 8' 16' 32"
1/8"=1'-0" 0 4' 8' 16'
1/4"=1'-0" 0 2' 4' 8'
1/2"=1'-0" 0 1' 2' 4'
3/4"=1'-0" 0 1' 2'
1"=1'-0" 0 6" 1' 2'
1 1/2"=1'-0" 0 3" 6" 1'
3"=1'-0" 0 3" 6"

WATER PLANS

TO SERVE

EVERGREEN BAPTIST CHURCH - PHASE 5

A PART OF THE SW/4, SECTION 30, T18N, R14E, I.M.
BROKEN ARROW,TULSA COUNTY, OKLAHOMA

SUMMARY OF QUANTITIES

ITEM #	ITEM	UNIT	QUANTITY	AS-BUILT
1.	8" WATER LINE (C-900 PVC)	L.F.	885	
2.	TYPE 'A' AGGREGATE BACKFILL	C.Y.	37	
3.	¾" ROCK CHIP BEDDING	C.Y.	34	
4.	FIRE HYDRANT	EA.	2	
5.	FIRE HYDRANT RISER	EA.	2	
6.	8"x6" TEE	EA.	2	
7.	8" GATE VALVE BOX	EA.	2	
8.	6" GATE VALVE BOX	EA.	2	
9.	WET CONNECTION	EA.	2	
10.	2½" SLS	EA.	2	
11.	8"x8" TAPPING VALVE	EA.	2	
12.	8" SOLID SLEEVE	EA.	2	
13.	8"x45° BEND	EA.	8	
14.	BORE & STEEL ENCASEMENT FOR 8" MAIN	L.F.	40	
15.	TESTING & DISINFECTING	L.S.	1	
	RJ = RESTRAINED JOINT			

EROSION CONTROL QUANTITIES

1.	SILT FENCE	L.F.	716	
2.	18" SLAB SOB ALONG PAVEMENT	S.Y.	910	

GENERAL CONSTRUCTION NOTES:

1. THE CITY OF BROKEN ARROW IS THE AUTHORITY HAVING JURISDICTION (AHJ). ALL PERMITTING AND INSPECTIONS SHALL FOLLOW THE CITY OF BROKEN ARROW AND STATE REQUIREMENTS.
2. ALL WORK HOUR REQUIREMENTS WILL NEED TO FOLLOW THE CITY OF BROKEN ARROW ORDINANCES AND SHOULD BE VERIFIED PRIOR TO COMMENCING CONSTRUCTION.
3. ALL EXCAVATION, PAVEMENT REPLACEMENT, AGGREGATE BACKFILL, SHORING, AND ANY OTHER COSTS INCIDENTAL TO THE PROJECT SHALL BE DETERMINED BY THE CONTRACTOR AND COST INCLUDED IN THE OVERALL BID FOR THE PROJECT.
4. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT, AND TAKE ANY OTHER NEEDED ACTION AS HIS OWN RESPONSIBILITY OR AS THE OWNER MAY DETERMINE REASONABLY NECESSARY TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT. OSHA GUIDELINES SHALL BE FOLLOWED FOR THIS PROJECT.
5. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES. ANY EXISTING UTILITIES LOCATED UNDER NEW BUILDING AREAS ARE TO BE RELOCATED TO OUTSIDE OF SUCH AREAS. THE CONTRACTOR IS TO VERIFY WITH THE ARCHITECT IF ANY SUCH UTILITIES ARE ENCOUNTERED. THE ARCHITECT SHALL DETERMINE IF SUCH UTILITIES ARE TO BE REMOVED OR ABANDONED IN PLACE.
6. THE LOCATION OF THE UTILITIES ARE SHOWN ACCORDING TO ALL AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER PRIOR TO COMMENCEMENT OF WORK TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS.
7. THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF WORK.
8. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND THE ADJOINING PAVEMENT IS ADVERSELY AFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBBASE AT HIS SOLE EXPENSE.
9. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OF OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.
10. ALL BROKEN CONCRETE, WASTE MATERIAL, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF PROPERLY. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.
11. THE CONTRACTOR SHALL CONTACT THE ARCHITECT IMMEDIATELY IF ANY BUILDING FOUNDATIONS OR OTHER UNIDENTIFIED SUBSURFACE OBSTRUCTIONS ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT.
12. ALL EXCAVATED MATERIAL NOT REQUIRED IN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR PROPERLY. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.
13. WHERE MATERIALS ARE TRANSPORTED IN THE PROSECUTION OF WORK, VEHICLES SHALL NOT BE LOADED BEYOND THE CAPACITY RECOMMENDED BY THE VEHICLE MANUFACTURER OR AS PRESCRIBED BY ANY FEDERAL, STATE OR LOCAL LAW OR REGULATION.
14. ANY DAMAGE TO THE ROADWAY PAVEMENT, CURB, DRIVEWAYS OR SIDEWALK CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AND SHALL BE ACCOMPLISHED AT THE CONTRACTOR'S SOLE EXPENSE. ALL DISTURBED ITEMS SHALL BE REPAIRED TO MATCH EXISTING MATERIALS AND PATTERNING.
15. THE DELAWARE TRIBE WILL PROVIDE A THIRD PARTY TESTING COMPANY WHO IS RESPONSIBLE FOR ALL NECESSARY QUALITY CONTROL TESTING TO ENSURE THAT PROJECT REQUIREMENTS ARE MET. THE CONTRACTOR SHALL COORDINATE ALL TESTING AND INSPECTIONS REQUIRED.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL AND MAINTENANCE OF THE STORMWATER DRAINAGE DURING CONSTRUCTION. STORMWATER PONDING ON THE CONSTRUCTION SITE THAT IS A RESULT OF CONSTRUCTION WILL NOT BE ALLOWED.
17. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE DEQ OR EPA STORMWATER CONTAINMENT POLICIES AND PRACTICES.
18. THE CONTRACTOR MUST CALL 1-800-458-4251 IMMEDIATELY IF A NATURAL GAS PIPELINE IS CUT, DAMAGED, OR OTHERWISE DISTURBED.
19. ALL CONSTRUCTION SHALL CONFORM TO ADA AND ANSI STANDARDS.

WATER CONSTRUCTION NOTES:

1. REFER TO SHEET D-100W - D-101W FOR WATER CONSTRUCTION DETAILS.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY TO COMPLETE CONSTRUCTION.
3. ALL CONSTRUCTION TO MEET OR EXCEED THE CITY OF BROKEN ARROW AND THE STATE OF OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY SPECIFICATIONS. CITY OF BROKEN ARROW STANDARD CONSTRUCTION DETAILS FOR WATER AND SANITARY SEWER SHALL BE USED FOR CONSTRUCTION.
4. ALL WATER LINE CROSSINGS MUST MEET THE FOLLOWING: A HORIZONTAL SEPARATION OF 10 FEET FROM ANY EXISTING OR PROPOSED WATER MAIN AND 50 FEET FROM ALL PETROLEUM STORAGE TANKS. A VERTICAL SEPARATION OF 24 INCHES BETWEEN OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER LINE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHEN 24 INCH SEPARATION CAN NOT BE MET, THE SEWER LINE SHALL BE CONSTRUCTED IN A MANNER EQUIVALENT TO THE PRESSURE REQUIREMENTS FOR WATERLINES AND PRESSURE TESTED.
5. EXISTING PAVING DISTURBED DURING CONSTRUCTION OF UTILITIES MUST BE REPAIRED TO LIKE PREVIOUS CONDITIONS.
6. UTILITY TRENCHES MUST BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
7. DEPTH OF TRENCHES CALCULATED TO FINISHED GRADE ELEVATION. ALL TRENCHES ACROSS EXISTING AND PROPOSED DRIVEWAYS WILL NEED TO BE BACKFILLED WITH TYPE 'A' AGGREGATE BASE AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
8. THE WIDTH OF TRENCH SHALL BE AMPLE ENOUGH TO ALLOW THE PIPE TO BE LAID AND JOINTED PROPERLY AND TO ALLOW THE BACKFILL TO BE PLACED AND COMPACTED AS NEEDED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL UTILITIES, EITHER PUBLIC OR PRIVATE AS SHOWN ON THESE PLANS.
10. ALL WORK NOT CLASSIFIED AS A CONTRACT PAY ITEM SHALL BE INCIDENTAL CONSTRUCTION AND THE COST THEREOF SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ITEMS WHICH ARE CLASSIFIED FOR PAYMENT.
11. THE COST OF REMOVING OR MOVING AND REPLACING ALL FENCES, TREES UNDER 6", STRUCTURES OR OTHER OBSTRUCTIONS NECESSARY FOR CONSTRUCTION WILL NOT BE PAID FOR AS SUCH, BUT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR OTHER ITEMS.
12. AN AIR LEAKAGE TEST SHALL BE PERFORMED IN ACCORDANCE WITH ASTM F1417-92.
13. DEFLECTION TEST SHALL BE PERFORMED ON ALL PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES. THE CONTRACTOR WILL BE RESPONSIBLE FOR COST ASSOCIATED WITH THIS TEST.
14. WATERLINE PVC PIPE TO BE C-900 UNLESS OTHERWISE INSTRUCTED BY THE CITY OF BROKEN ARROW.
15. PVC PUSH-ON JOINTS SHALL BE INTEGRALLY FORMED, RUBBER GASKET.
16. CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED IN THE TRENCH FOR ALL BURIED PIPE. BACKFILL MATERIAL SHALL BE TAMPED IN LAYERS AROUND THE PIPE.
17. ALL WATER MAINS SHALL BE COVERED WITH AT LEAST 3 FEET OF EARTH.
18. ALL TEES, BENDS, PLUGS AND HYDRANTS SHALL BE PROVIDED WITH REACTION BLOCKING AND RESTRAINTS. REACTION BLOCKING SHALL NOT BE REQUIRED AT 11.25° BENDS.
19. WATER MAINS SHALL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C601.** LEAKAGE SHOULD NOT EXCEED TEN GALLONS PER INCH DIAMETER PER MILE OF PIPE PER 24 HOURS AT 150 PSI TESTING PRESSURE.
20. ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651 AND OKLAHOMA DEQ'S RULES FOR PUBLIC WATER SUPPLY OPERATION. WATER WITH 50 TO 100 PARTS PER MILLION OF CHLORINE SHALL BE ALLOWED TO STAND 24 HOURS AND DEVELOP A RESIDUAL OF AT LEAST 10 PARTS PER MILLION OF CHLORINE.
21. WATER MAINS SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER LINES, STORM SEWERS, RAW WATER LINES, OIL AND GAS LINES, AND BURIED ELECTRIC LINES.
22. PVC WATER LINES SHALL BE LOCATED AT LEAST 50 FEET HORIZONTALLY FROM ANY GASOLINE STORAGE TANK.
23. WATER LINES SHALL BE LOCATED AT LEAST 15 FEET FROM ALL PARTS OF SEPTIC TANKS AND ABSORPTIONS FIELDS, OR OTHER SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
24. WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 24 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. SEWER SERVICE LINES CROSSING WATER MAINS SHALL PROVIDE A MINIMUM VERTICAL DISTANCE OF 24 INCHES. WHEN 24 INCH SEPARATION CAN NOT BE MAINTAINED, APPROVAL FROM THE CITY OF BROKEN ARROW SHALL BE REQUIRED.
25. TRACER WIRE SHALL BE INSTALLED WITH ALL UTILITY LINES IN ACCORDANCE WITH PROJECT MANUAL SPEC 33 0526 UTILITY LINE MARKING.
26. METERS SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE EDGE OF WATER LINE EASEMENT.
27. RESTRAINT JOINTS FOR C-900 PVC WATERLINE SHALL BE THE SERIES 1500TD, BY EBAA IRON, INC., OR APPROVED EQUAL. IF THE NEED FOR ROCK EXCAVATION IS ENCOUNTERED OWNER SHALL BE CONTACTED FOR CONSULTATION PRIOR TO INCURRING ANY ADDITIONAL EXPENSE.
28. SPOILS FROM THE TRENCH CONSTRUCTION WILL BE ALLOWED TO BE USED THROUGHOUT THE SITE IN NON-CRITICAL LOCATIONS AT THE APPROVAL OF THE OWNER. COMPACTION REQUIREMENTS MUST BE MET FOR ALL SPOIL MATERIAL USED.
29. WATER LINES SHALL BE FLUSHED AND DISINFECTED PRIOR TO BEING PLACED IN SERVICE. A 2" BLOW-OFF VALVE SHALL BE INSTALLED AT EACH END OF THE WATER LINE TO CLEAR THE LINE BEFORE AND AFTER DISINFECTION.
30. ALL FITTINGS AND VALVES SHALL BE RESTRAINED BY MEGALUG MECHANICAL JOINT RESTRAINTS. NO PIPE JOINTS MAY LIE WITHIN 20 FEET OF A RESTRAINED JOINT OR VALVE.
31. LEDGE ROCK, BOULDERS AND LARGE STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF 4 INCHES BELOW AND ON EACH SIDE OF ALL PIPES.
32. BACKFILL SHALL BE SUITABLE MATERIAL REMOVED FROM EXCAVATION. DEBRIS, FROZEN MATERIAL, LARGE CLODS, STONES, ORGANIC MATTER OR OTHER UNSTABLE MATERIAL SHALL NOT BE USED FOR BACKFILL WITHIN 2 FEET OF THE TOP OF THE PIPE.
33. ALL PIPE CUTS SHALL BE ALONG NEAT, SAW CUT LINES.

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE EROSION PROTECTION DURING CONSTRUCTION AND FOLLOWING CONSTRUCTION, UNTIL SUCH TIME AS PROPER VEGETATION IS REESTABLISHED. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A COMBINATION SILT DIKE AND FILTER FABRIC BARRIER AS SHOWN ON THE EROSION CONTROL PLAN.
2. THE CONTRACTOR MAY BE SUBJECT TO FREQUENT INSPECTION OF ALL EROSION CONTROL METHODS AND MATERIALS AND SHALL REPLACE OR REPAIR ANY ITEM CONSIDERED DEFECTIVE IN A TIMELY MANNER.
3. DURING CONSTRUCTION AND UNTIL SUCH TIME AS VEGETATION IS REESTABLISHED, THE CONTRACTOR SHALL KEEP EXPOSED DIRT AREAS WITHIN THE LIMITS OF CONSTRUCTION AND IN STOCKPILE AREAS, DAMPENED TO PREVENT BLOWING DUE TO WIND.
4. ALL EROSION CONTROL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THESE PLANS AS WELL AS ALL ODEQ REQUIREMENTS.
5. THE CONTRACTOR MUST NOTIFY THE EVERGREEN BAPTIST CHURCH AND FILE A "NOTICE OF INTENT" WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY PRIOR TO COMMENCING EARTHWORK, CLEARING OR DEMOLITION OPERATIONS.
6. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PRIOR TO COMMENCING ANY STRIPPING OR EARTHMOVING OPERATIONS.
7. SILT DIKES AND SILT FENCES: SILT FENCES SHALL BE PLACED WHERE SILT WILL LEAVE THE PROPERTY AND AS MARKED ON EROSION CONTROL PLAN. SILT DIKE AND FENCING WHICH BECOME DAMAGED SHALL BE REPLACED PROMPTLY.
8. THE CONTRACTOR SHALL DISPOSE OF ALL SILT FENCE AND SILT DIKES AS SOON AS PERMANENT EROSION CONTROL MEASURES ARE IMPLEMENTED.

TRAFFIC CONTROL NOTES (IF REQUIRED):

1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES ALONG SURROUNDING ROADS FOR ANY CONSTRUCTION ACTIVITY WITHIN OR NEAR THE RIGHT-OF-WAYS OF THESE ROADS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF BROKEN ARROW, THE OKLAHOMA DEPARTMENT OF TRANSPORTATION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. LANE CLOSURES SHALL BE LIMITED BETWEEN 9:00 A.M. AND 4:00 P.M. MONDAY THROUGH FRIDAY ONLY.
3. PROPER BARRICADES SHALL REMAIN IN PLACE, DAY AND NIGHT, FOR THE DURATION OF CONSTRUCTION.
4. CONTRACTOR SHALL MAINTAIN INGRESS/EGRESS TO ALL BUSINESSES AND RESIDENCES.
5. CONTRACTOR SHALL MAINTAIN CLEANLINESS OF SURROUNDING ROADS, SWEEPING DAILY TO KEEP DEBRIS AND DIRT FROM ACCUMULATING.
6. CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING A SAFE TRAVEL WAY THROUGH CONSTRUCTION ZONE.

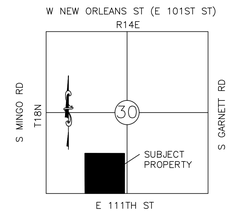
SITE LAYOUT NOTES (IF REQUIRED):

1. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING.
2. THE CONTRACTOR SHALL SATISFY THEMSELVES AS TO THE ACCURACY OF ALL MEASUREMENTS PRIOR TO CONSTRUCTION OF ANY PERMANENT STRUCTURE.
3. ANY DISCREPANCIES BETWEEN THE BUILDING FOOTPRINT AS SHOWN ON THIS PLAN AND BUILDING DIMENSIONS SHOWN ON THE ARCHITECTURAL PLANS BE RESOLVED PRIOR TO CONSTRUCTION IN FAVOR OF THE ARCHITECTURAL PLANS.
4. ALL PAVING DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
5. ALL SIDEWALKS ARE 5 FEET WIDE UNLESS OTHERWISE NOTED. SIDEWALKS SHOWN HERE ON WHICH FILL THE ENTIRE SPACE BETWEEN THE PARKING LOT CURBS AND THE FACE OF THE BUILDING SHALL BE CONSTRUCTED IN THE MANNER SHOWN.
6. SIDEWALK CROSS SLOPES SHALL NOT EXCEED ¼ INCH PER FOOT.
7. ALL UNPAVED, DISTURBED AREAS SHALL BE SODDED WITH BERMUDA GRASS SOLID SLAB SOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATERING, FERTILIZING, AND MOWING OF TURF AREAS IN A MANNER TO ESTABLISH A VIABLE LAWN DURING THE ENTIRE CONSTRUCTION PERIOD UNTIL FINAL ACCEPTANCE BY THE OWNER.

COORDINATE/DATUM NOTE:

1. THE DATUM/COORDINATE SYSTEM TO BE USED FOR CONSTRUCTION MUST BE NAD83 OKLAHOMA STATE PLANES, NORTH ZONE, US FOOT (OK83-NF).

The City of Broken Arrow



VICINITY MAP
SCALE: 1"=2000'

SHEET INDEX

DETAILS

PREPARED BY:
DESTINI HARRISON

RENEWAL DATE:
03/2026

PROJECT NUMBER: REED2405001

BENCHMARK:
FOUND CUT BOX SW CORNER SW/4 SEC. 30, T18N, R14E, TULSA COUNTY, OKLAHOMA

NORTHING: 372,475.31
EASTING: 2,600,511.32
ELEV: 669.22
NAVD88

OWNER:
EVERGREEN BAPTIST CHURCH
10301 EAST 111TH ST S, BROKEN ARROW, OKLAHOMA 74011
PHONE: (918) 369 - 6400

GENERAL CONSTRUCTION NOTES:

1. THE CITY OF BROKEN ARROW IS THE AUTHORITY HAVING JURISDICTION (AHJ). ALL PERMITTING AND INSPECTIONS SHALL FOLLOW THE CITY OF BROKEN ARROW AND OKLAHOMA REQUIREMENTS.
2. ALL WORK HOUR REQUIREMENTS WILL NEED TO FOLLOW THE CITY OF BROKEN ARROW ORDINANCES AND SHOULD BE VERIFIED PRIOR TO COMMENCING CONSTRUCTION.
3. ALL EXCAVATION, PAVEMENT REPLACEMENT, AGGREGATE BACKFILL, SHORING, AND ANY OTHER COSTS INCIDENTAL TO THE PROJECT SHALL BE DETERMINED BY THE CONTRACTOR AND COST INCLUDED IN THE OVERALL BID FOR THE PROJECT.
4. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF BROKEN ARROW & 2020 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
5. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT, AND TAKE ANY OTHER NEEDED ACTION AS HIS OWN RESPONSIBILITY OR AS THE OWNER MAY DETERMINE REASONABLY NECESSARY TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT. OSHA GUIDELINES SHALL BE FOLLOWED FOR THIS PROJECT.
6. PROJECT SHALL BE BID AS LUMP SUM. QUANTITY SUMMARIES SPECIFIED ON PLANS ARE ESTIMATES ONLY. NO ADDITIONAL PAYMENT SHALL BE MADE FOR ADDITIONAL MATERIALS REQUIRED UNLESS MODIFIED BY THE CONTRACT.
7. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES. ANY EXISTING UTILITIES LOCATED UNDER NEW BUILDING AREAS ARE TO BE RELOCATED TO OUTSIDE OF SUCH AREAS. THE CONTRACTOR IS TO VERIFY WITH THE ARCHITECT IF ANY SUCH UTILITIES ARE ENCOUNTERED. THE ARCHITECT SHALL DETERMINE IF SUCH UTILITIES ARE TO BE REMOVED OR ABANDONED IN PLACE.
8. THE LOCATION OF THE UTILITIES ARE SHOWN ACCORDING TO ALL AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER PRIOR TO COMMENCEMENT OF WORK TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS.
9. THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF WORK. PHONE 811.
10. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND THE ADJOINING PAVEMENT IS ADVERSELY AFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBBASE AT HIS SOLE EXPENSE.
11. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OF OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.
12. ALL BROKEN CONCRETE, WASTE MATERIAL, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF PROPERLY. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.
13. THE CONTRACTOR SHALL CONTACT THE ARCHITECT IMMEDIATELY IF ANY BUILDING FOUNDATIONS OR OTHER UNIDENTIFIED SUBSURFACE OBSTRUCTIONS ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT.
14. ALL EXCAVATED MATERIAL NOT REQUIRED IN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR PROPERLY. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.
15. WHERE MATERIALS ARE TRANSPORTED IN THE PROSECUTION OF WORK, VEHICLES SHALL NOT BE LOADED BEYOND THE CAPACITY RECOMMENDED BY THE VEHICLE MANUFACTURER OR AS PRESCRIBED BY ANY FEDERAL, STATE OR LOCAL LAW OR REGULATION.
16. ANY DAMAGE TO THE ROADWAY PAVEMENT, CURB, DRIVEWAYS OR SIDEWALK CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AND SHALL BE ACCOMPLISHED AT THE CONTRACTOR'S SOLE EXPENSE. ALL DISTURBED ITEMS SHALL BE REPAIRED TO MATCH EXISTING MATERIALS AND PATTERNING.
17. THE CONTRACTOR WILL PROVIDE A THIRD PARTY TESTING COMPANY WHO IS RESPONSIBLE FOR ALL NECESSARY QUALITY CONTROL TESTING TO ENSURE THAT PROJECT REQUIREMENTS ARE MET. THE CONTRACTOR SHALL COORDINATE ALL TESTING AND INSPECTIONS REQUIRED.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL AND MAINTENANCE OF THE STORMWATER DRAINAGE DURING CONSTRUCTION. STORMWATER PONDING ON THE CONSTRUCTION SITE THAT IS A RESULT OF CONSTRUCTION WILL NOT BE ALLOWED.
19. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE DEQ OR EPA STORMWATER CONTAINMENT POLICIES AND PRACTICES.
20. THE CONTRACTOR MUST CALL 1-800-458-4251 IMMEDIATELY IF A NATURAL GAS PIPELINE IS CUT, DAMAGED, OR OTHERWISE DISTURBED.
21. ALL CONSTRUCTION SHALL CONFORM TO ADA AND ANSI STANDARDS.
22. ADVANCED DRAINAGE SYSTEMS, LLC (ADS) STANDARD CONSTRUCTION DETAILS FOR TRENCH INSTALLATION (HP STORM), CLASSES OF EMBEDMENT AND BACKFILL MATERIALS, HP STORM TO RCP CONNECTION, AND ALL OTHER ASSOCIATED DETAILS SHALL BE FOLLOWED FOR CONSTRUCTION OF PROPOSED HP STORM SEWER.
23. CONSTRUCTION OF STORM SEWER SHALL FOLLOW THE CITY OF BROKEN ARROW CONSTRUCTION STANDARDS AND SPECIFICATIONS.

GRADING CONSTRUCTION NOTES:

1. THE CONTRACTOR WILL PROVIDE TESTING VIA A THIRD PARTY TESTING COMPANY WHO SHALL DETERMINE THE SUITABILITY OF EXISTING ON SITE MATERIAL PRIOR TO BEGINNING ANY FILL OPERATIONS.
2. FILL MATERIAL, IF REQUIRED, IS TO BE PROVIDED BY THE CONTRACTOR.
3. OPERATOR SHALL FIELD VERIFY EXISTING TOPOGRAPHY IN RELATION TO THE PROPOSED GRADES TO ENSURE DRAINAGE IN THE DIRECTIONS INDICATED ON THE PLAN.
4. THE CONTRACTOR SHALL PROVIDE LEVEL SURFACE (2% CROSS-SLOPE MAX.) WITHIN SIXTY (60) INCHES OF ANY BUILDING ENTRANCE.
5. ALL BANKS AND SWALE SIDE SLOPES SHALL BE GRADED WITH NO GREATER THAN 4:1 SLOPES.
6. ALL AREAS ARE TO BE GRADED SO THAT NO AREAS OF STANDING WATER OCCUR.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A STABILIZED CONSTRUCTION ENTRANCE, AND FOR CLEANING OF VEHICLE WHEELS.
8. BERMUDA GRASS SOLID SLAB SOD SHALL BE USED ON ANY DISTURBED AREA WHERE PAVEMENT OR GRAVEL IS NOT PLACED.
9. GRADING ELEVATIONS SHOWN HEREON ARE LOCATED AT THE DIMENSIONS SHOWN ON THE SITE PLAN.
10. PROPOSED CONTOURS SHOWN HEREON REPRESENT THE TOP OF PAVING IN AREAS TO BE PAVE AND THE TOP OF TURF IN ALL OTHER AREAS.
11. ALL PROPOSED FINAL GRADE SPOT ELEVATIONS SHOWN SHALL GOVERN OVER CONTOUR LINES.
12. PRIOR TO THE PLACEMENT OF FILL, THE GROUND SHALL BE STRIPPED OF VEGETATION, SCARIFIED AND RECOMPACTED. FILL SHALL BE PLACED IN MAXIMUM LIFTS OF 9 INCHES AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DENSITY OBTAINED BY THE STANDARD COMPACTION TEST (ASTM D-698) AT A WATER CONTENT WITHIN 2% OF OPTIMUM.
13. IN AREAS OF EXCAVATION, THE SUBGRADE SHALL BE SCARIFIED AND RECOMPACTED IN ACCORDANCE WITH THE ABOVE SPECIFICATIONS
14. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
15. UNSUITABLE MATERIALS AND ALL WASTE EXCAVATION RESULTING FROM CLEARING, GRUBBING OR GRADING OPERATIONS SHALL BE LEGALLY DISPOSED OF OFF-SITE. CONTRACTOR SHALL RETAIN USABLE TOPSOIL FOR REUSE ONSITE AT COMPLETION OF GRADING OPERATIONS.

GRADING CONSTRUCTION NOTES (CONTINUED):

16. AT THE COMPLETION OF ALL WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILLING ALL ISLANDS, BEHIND CURBS AND ALL OTHER AREAS TO BE LANDSCAPED WITH A MINIMUM DEPTH OF TOPSOIL OF 4 INCHES. THE CONTRACTOR SHALL FURTHER BE RESPONSIBLE FOR SODDING AS DIRECTED.

PAVING CONSTRUCTION NOTES:

1. ALL PAVEMENT MATERIALS SHALL CONFORM TO THE CITY OF BROKEN ARROW & OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTES.
2. ALL SUBGRADE AND AND PAVEMENT MATERIAL TESTING SHALL BE PROVIDED AS SPECIFIED.
3. ALL PAVEMENT AREAS SHALL BE STRIPPED OF VEGETATION, TOPSOIL AND SOFT OR OTHERWISE UNSUITABLE MATERIALS. THE EXPOSED SUBGRADE SHALL BE PROOFROLLED BY EQUIPMENT HAVING A MINIMUM GROSS WEIGHT OF 25 TONS. SOFT AREAS IDENTIFIED DURING PROOFROLLING SHOULD BE OVER EXCAVATED AND REPLACED WITH PROPERLY COMPACTED LOW VOLUME CHANGE MATERIAL. PROOFROLLING SHALL BE OBSERVED BY A REPRESENTATIVE OF THE OWNER PROVIDED TESTING AND OBSERVATION FIRM.
4. SUBGRADE STABILIZATION SHALL BE PROVIDED AS SPECIFIED.
5. BEFORE COMPACTION, THE STABILIZED SOIL ZONE SHALL BE ADJUSTED TO WITHIN 2% OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR METHOD (ASTM D-698). THE SUBGRADE SHALL BE COMPACTED TO 98% OF THE MATERIALS STANDARD PROCTOR DRY DENSITY.
6. FILL AREAS SHOULD CONSIST OF APPROVED COHESIVE MATERIALS WHICH ARE FREE OF ORGANIC MATTER AND DEBRIS.
7. THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN POSITIVE DRAINAGE AND PREVENT PONDING ON THE SUBGRADE PRIOR TO CONSTRUCTING PAVEMENTS. ANY AREAS THAT ARE SUBJECT TO PONDING SHALL BE SCARIFIED, DRIED AND RECOMPACTED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS PRIOR TO PAVING.
8. A MEDIUM BROOM FINISH, PERPENDICULAR TO THE DIRECTION OF TRAFFIC, SHALL BE PROVIDED TO ALL CONCRETE SIDEWALK, RAMP AND PAVEMENT SURFACES.
9. ALL CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3500 PSI AT 28 DAYS.
10. ALL JOINT SEALER MATERIAL SHALL MEET 2019 OKLAHOMA DOT STANDARD SPECIFICATIONS.
11. ALL JOINTS TO BE INSPECTED AND APPROVED BEFORE APPLYING SEALER.
12. ALL REBAR SHALL BE SUPPORTED ON APPROVED BRICKS.
13. ALL CONCRETE REMOVAL (P.C. OR ASPHALT) SHALL BE TO A SAW CUT OR AS DIRECTED BY THE ENGINEER.
14. AN "EMERGENCY JOINT" OR AN "END OF DAYS POUR JOINT" SHALL BE CONSTRUCTED WITH A SMOOTH HEADER AND 3/4" X 15" SMOOTH STEEL DOWEL AS IN CONTRACTION JOINT WITH ADDITIONAL DOWELS AT 48" ON CENTER.
15. ALL PAVEMENT REMOVALS SHALL BE ALONG NEAT, FULL DEPTH, SAW CUT LINES.

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE EROSION PROTECTION DURING CONSTRUCTION AND FOLLOWING CONSTRUCTION, UNTIL SUCH TIME AS PROPER VEGETATION IS REESTABLISHED. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A COMBINATION SILT DIKE AND FILTER FABRIC BARRIER AS SHOWN ON THE EROSION CONTROL PLAN.
2. THE CONTRACTOR MAY BE SUBJECT TO FREQUENT INSPECTION OF ALL EROSION CONTROL METHODS AND MATERIALS AND SHALL REPLACE OR REPAIR ANY ITEM CONSIDERED DEFECTIVE IN A TIMELY MANNER.
3. DURING CONSTRUCTION AND UNTIL SUCH TIME AS VEGETATION IS REESTABLISHED, THE CONTRACTOR SHALL KEEP EXPOSED DIRT AREAS WITHIN THE LIMITS OF CONSTRUCTION AND IN STOCKPILE AREAS, DAMPENED TO PREVENT BLOWING DUE TO WIND.
4. ALL EROSION CONTROL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THESE PLANS AS WELL AS ALL DEQ REQUIREMENTS.
5. THE CONTRACTOR MUST NOTIFY THE CITY OF BROKEN ARROW AND FILE A "NOTICE OF INTENT" WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY, PRIOR TO COMMENCING EARTHWORK, CLEARING OR DEMOLITION OPERATIONS.
6. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PRIOR TO COMMENCING ANY STRIPPING OR EARTHMOVING OPERATIONS.
7. SILT DIKES AND SILT FENCES: SILT FENCES SHALL BE PLACED WHERE SILT WILL LEAVE THE PROPERTY AND AS MARKED ON EROSION CONTROL PLAN. SILT DIKE AND FENCING WHICH BECOME DAMAGED SHALL BE REPLACED PROMPTLY.
8. THE CONTRACTOR SHALL DISPOSE OF ALL SILT FENCE AND SILT DIKES AS SOON AS PERMANENT EROSION CONTROL MEASURES ARE IMPLEMENTED.
9. FUEL TANKS REQUIRE SECONDARY CONTAINMENT.
10. TRASH/LITTER SHALL BE CONTAINED IN COVERED TRASH RECEPTACLES.
11. RE-VEGETATION SHALL BE PROVIDED ONCE CONSTRUCTION HAS CEASED OR BEEN INACTIVE FOR 14 DAYS OR MORE.

TRAFFIC CONTROL NOTES (IF REQUIRED):

1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES ALONG SURROUNDING ROADS FOR ANY CONSTRUCTION ACTIVITY WITHIN OR NEAR THE RIGHT-OF-WAYS OF THESE ROADS IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUREAU OF INDIAN AFFAIRS, THE OKLAHOMA DEPARTMENT OF TRANSPORTATION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. LANE CLOSURES SHALL BE LIMITED BETWEEN 9:00 A.M. AND 4:00 P.M. MONDAY THROUGH FRIDAY ONLY.
3. PROPER BARRICADES SHALL REMAIN IN PLACE, DAY AND NIGHT, FOR THE DURATION OF CONSTRUCTION.
4. CONTRACTOR SHALL MAINTAIN INGRESS/EGRESS TO ALL BUSINESSES AND RESIDENCES.
5. CONTRACTOR SHALL MAINTAIN CLEANLINESS OF SURROUNDING ROADS, SWEEPING DAILY TO KEEP DEBRIS AND DIRT FROM ACCUMULATING.
6. CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING A SAFE TRAVEL WAY THROUGH CONSTRUCTION ZONE.

SITE LAYOUT NOTES:

1. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING.
2. THE CONTRACTOR SHALL SATISFY THEMSELVES AS TO THE ACCURACY OF ALL MEASUREMENTS PRIOR TO CONSTRUCTION OF ANY PERMANENT STRUCTURE.
3. ANY DISCREPANCIES BETWEEN THE BUILDING FOOTPRINT AS SHOWN ON THIS PLAN AND BUILDING DIMENSIONS SHOWN ON THE ARCHITECTURAL PLANS BE RESOLVED PRIOR TO CONSTRUCTION IN FAVOR OF THE ARCHITECTURAL PLANS.
4. ALL PAVING DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
5. ALL SIDEWALKS ARE 5 FEET WIDE UNLESS OTHERWISE NOTED. SIDEWALKS SHOWN HERE ON WHICH FILL THE ENTIRE SPACE BETWEEN THE PARKING LOT CURBS AND THE FACE OF THE BUILDING SHALL BE CONSTRUCTED IN THE MANNER SHOWN.
6. SIDEWALK CROSS SLOPES SHALL NOT EXCEED $\frac{1}{4}$ INCH PER FOOT.
7. ALL UNPAVED, DISTURBED AREAS SHALL BE SODDED WITH BERMUDA GRASS SOLID SLAB SOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATERING, FERTILIZING, AND MOWING OF TURF AREAS IN A MANNER TO ESTABLISH A VIABLE LAWN DURING THE ENTIRE CONSTRUCTION PERIOD UNTIL FINAL ACCEPTANCE BY THE OWNER.

COORDINATE/DATUM NOTE:

1. THE DATUM/COORDINATE SYSTEM TO BE USED FOR CONSTRUCTION MUST BE NAD83 OKLAHOMA STATE PLANES, NORTH ZONE, US FOOT (OK83-NF).

WATER AND SANITARY SEWER CONSTRUCTION NOTES:

1. TRENCHING, BEDDING, BACKFILL, AND TRENCH COMPACTION COST FOR WATER LINE, SANITARY SEWER LINE, WATER SERVICE CONNECTIONS, AND SANITARY SEWER SERVICE CONNECTIONS SHALL BE INCLUDED IN THE COST OF THE UTILITY LINE. THE USE OF EXPLOSIVES FOR TRENCH CONSTRUCTION WILL NOT BE ALLOWED.
2. PIPES TO BE ABANDONED IN PLACE UNDER BUILDINGS OR PAVEMENT SHALL BE REMOVED OR PRESSURE GROUTED WITH CONCRETE GROUT. PIPES LOCATED IN YARDS OR GREEN SPACES SHALL BE REMOVED OR FILLED WITH SAND.
3. REFER TO SHEET D-102 FOR WATER AND SANITARY SEWER CONSTRUCTION.
4. MANHOLES TO BE ABANDONED IN PLACE SHALL HAVE THE STRUCTURE REMOVED TO BELOW THE CONE OF TO A DEPTH NOT LESS THAN 4 FEET, WHICHEVER IS DEEPER. CUT AND REMOVE A MINIMUM OF 2 FEET OF ALL PIPES CONNECTED TO THE MANHOLE. PIPES SHALL BE SECURELY PLUGGED.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY TO COMPLETE CONSTRUCTION.
6. ALL CONSTRUCTION TO MEET OR EXCEED CITY OF BROKEN ARROW AND THE STATE OF OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY SPECIFICATIONS. CITY OF BROKEN ARROW STANDARD CONSTRUCTION DETAILS FOR WATER AND SANITARY SEWER SHALL BE USED FOR CONSTRUCTION.
7. ALL SANITARY SEWER AND WATER LINE CROSSINGS MUST MEET THE FOLLOWING: A HORIZONTAL SEPARATION OF 10 FEET FROM ANY EXISTING OR PROPOSED WATER MAIN AND 50 FEET FROM ALL PETROLEUM STORAGE TANKS. A VERTICAL SEPARATION OF 24 INCHES BETWEEN OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER LINE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHEN 24 INCH SEPARATION CAN NOT BE MET, THE SEWER LINE SHALL BE CONSTRUCTED IN A MANNER EQUIVALENT TO THE PRESSURE REQUIREMENTS FOR WATERLINES AND PRESSURE TESTED.
8. ALL SEWER LINES ARE TO BE SDR 26, ASTM D3034 UNLESS OTHERWISE NOTED.
9. EXISTING PAVING DISTURBED DURING CONSTRUCTION OF UTILITIES MUST BE REPAIRED TO LIKE PREVIOUS CONDITIONS.
10. UTILITY TRENCHES MUST BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
11. DEPTH OF TRENCHES CALCULATED TO FINISHED GRADE ELEVATION. ALL TRENCHES ACROSS EXISTING AND PROPOSED DRIVEWAYS WILL NEED TO BE BACKFILLED WITH ODOT TYPE 'A' AGGREGATE BASE AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
12. THE WIDTH OF TRENCH SHALL BE AMPLE ENOUGH TO ALLOW THE PIPE TO BE LAID AND JOINTED PROPERLY AND TO ALLOW THE BACKFILL TO BE PLACED AND COMPACTED AS NEEDED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL UTILITIES, EITHER PUBLIC OR PRIVATE AS SHOWN ON THESE PLANS.
14. THE WIDTH OF TRENCH SHALL BE AMPLE ENOUGH TO ALLOW THE PIPE TO BE LAID AND JOINTED PROPERLY AND TO ALLOW THE BACKFILL TO BE PLACED AND COMPACTED AS NEEDED.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL UTILITIES, EITHER PUBLIC OR PRIVATE AS SHOWN ON THESE PLANS.
16. WORK NOT CLASSIFIED AS A CONTRACT PAY ITEM SHALL BE INCIDENTAL CONSTRUCTION AND THE COST THEREOF SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ITEMS WHICH ARE CLASSIFIED FOR PAYMENT
17. COST OF REMOVING OR MOVING AND REPLACING ALL FENCES, TREES UNDER 6", STRUCTURES OR OTHER OBSTRUCTIONS NECESSARY FOR CONSTRUCTION WILL NOT BE PAID FOR AS SUCH, BUT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR OTHER ITEMS.
18. POLYVINYL CHLORIDE SEWER PIPE, REFERRED TO HEREINAFTER AS PVC, SHALL CONFORM TO THE REQUIREMENTS OF ASTM STANDARD D3034 AND ONLY SUBSEQUENT REVISIONS THEREOF. PVC JOINTS SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR ELASTOMERIC SEALS (GASKETS) FOR JOINING PLASTIC PIPE - ASTM F477.
19. AN AIR LEAKAGE TEST SHALL BE PERFORMED IN ACCORDANCE WITH ASTM F1417-92.
20. DEFLECTION TEST SHALL BE PERFORMED ON ALL PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES. THE CONTRACTOR WILL BE RESPONSIBLE FOR COST ASSOCIATED WITH THIS TEST.
21. ALL WATERLINE PVC PIPE TO BE C-900 UNLESS OTHERWISE INSTRUCTED BY THE CITY OF BROKEN ARROW.
22. ALL PVC PUSH-ON JOINTS SHALL BE INTEGRALLY FORMED, RUBBER GASKET.
23. A CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED IN THE TRENCH FOR ALL BURIED PIPE. BACKFILL MATERIAL SHALL BE TAMPED IN LAYERS AROUND THE PIPE.
24. ALL WATER MAINS SHALL BE COVERED WITH AT LEAST 3 FEET OF EARTH.
25. ALL TEES, BENDS, PLUGS AND HYDRANTS SHALL BE PROVIDED WITH REACTION BLOCKING AND RESTRAINTS. REACTION BLOCKING SHALL NOT BE REQUIRED AT 11.25° BENDS.
26. WATER MAINS SHALL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C601. LEAKAGE SHOULD NOT EXCEED TEN GALLONS PER INCH DIAMETER PER MILE OF PIPE PER 24 HOURS AT 150 PSI TESTING PRESSURE.
27. ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651 AND OKLAHOMA DEQ'S RULES FOR PUBLIC WATER SUPPLY OPERATION. WATER WITH 50 TO 100 PARTS PER MILLION OF CHLORINE SHALL BE ALLOWED TO STAND 24 HOURS AND DEVELOP A RESIDUAL OF AT LEAST 10 PARTS PER MILLION OF CHLORINE.
28. WATER MAINS SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER LINES, STORM SEWERS, RAW WATER LINES, OIL AND GAS LINES, AND BURIED ELECTRIC LINES.
29. WATER LINES SHALL BE LOCATED AT LEAST 50 FEET HORIZONTALLY FROM ANY GASOLINE STORAGE TANK.
30. WATERLINES SHALL BE LOCATED AT LEAST 15 FEET FROM ALL PARTS OF SEPTIC TANKS AND ABSORPTIONS FIELDS, OR OTHER SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
31. WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 24 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. SEWER SERVICE LINES CROSSING WATER MAINS SHALL PROVIDE A MINIMUM VERTICAL DISTANCE OF 24 INCHES. WHEN 24 INCH SEPARATION CAN NOT BE MAINTAINED, APPROVAL FROM THE CITY OF BROKEN ARROW SHALL BE REQUIRED.
32. TRACER WIRE SHALL BE INSTALLED WITH ALL UTILITY LINES IN ACCORDANCE WITH PROJECT MANUAL SPEC 33 0526 UTILITY LINE MARKING.
33. METERS SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE EDGE OF WATER LINE EASEMENT.
34. RESTRAINT JOINTS FOR C-900 PVC WATERLINE SHALL BE THE SERIES 1500TD, BY EBAA IRON, INC., OR APPROVED EQUAL. IF THE NEED FOR ROCK EXCAVATION IS ENCOUNTERED OWNER SHALL BE CONTACTED FOR CONSULTATION PRIOR TO INCURRING ANY ADDITIONAL EXPENSE.
35. SPOILS FROM THE TRENCH CONSTRUCTION WILL BE ALLOWED TO BE USED THROUGHOUT THE SITE IN NON-CRITICAL LOCATIONS AT THE APPROVAL OF THE OWNER. COMPACTION REQUIREMENTS MUST BE MET FOR ALL SPOIL MATERIAL USED.
36. WATER LINES SHALL BE FLUSHED AND DISINFECTED PRIOR TO BEING PLACED IN SERVICE. A 2" BLOW-OFF VALVE SHALL BE INSTALLED AT EACH END OF THE WATER LINE TO CLEAR THE LINE BEFORE AND AFTER DISINFECTION.
37. ALL FITTINGS AND VALVES SHALL BE RESTRAINED BY MEGALUG MECHANICAL JOINT RESTRAINTS. NO PIPE JOINTS MAY LIE WITHIN 20 FEET OF A RESTRAINED JOINT OR VALVE.
38. LEDGE ROCK, BOULDERS AND LARGE STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF 4 INCHES BELOW AND ON EACH SIDE OF ALL PIPES.
39. BACKFILL SHALL BE SUITABLE MATERIAL REMOVED FROM EXCAVATION. DEBRIS, FROZEN MATERIAL, LARGE CLODS, STONES, ORGANIC MATTER OR OTHER UNSTABLE MATERIAL SHALL NOT BE USED FOR BACKFILL WITHIN 2 FEET OF THE TOP OF THE PIPE.
40. ALL PIPE CUTS SHALL BE ALONG NEAT, SAW CUT LINES.

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REVISION 2
04.09.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

GENERAL CONSTRUCTION NOTES

JOB	REED2405001
ISSUE	07/19/2024
DRAWN BY:	IGM & ZWW
CHK'D BY:	DRH

LICENSED PROFESSIONAL ENGINEER — Destini Harrison 34377 — OKLAHOMA

C-100S

SCALE

1/16"=1'-0" 0 8" 16" 32"
3/32"=1'-0" 0 4' 8' 16' 32'
1/8"=1'-0" 0 4' 8' 16'
1/4"=1'-0" 0 2' 4' 8'
1/2"=1'-0" 0 1' 2' 4'
3/4"=1'-0" 0 1' 2'
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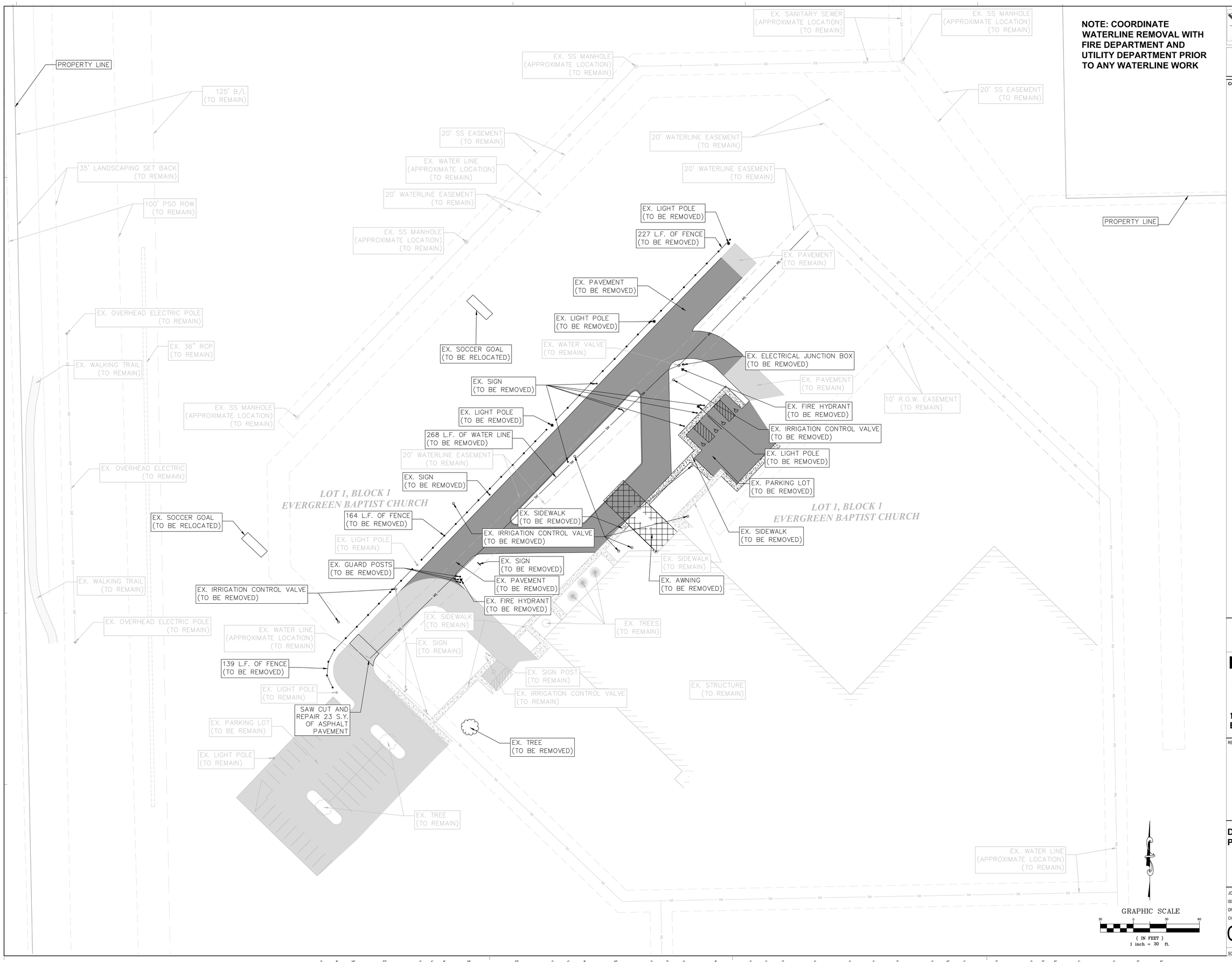

NOTE: COORDINATE WATERLINE REMOVAL WITH FIRE DEPARTMENT AND UTILITY DEPARTMENT PRIOR TO ANY WATERLINE WORK

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REVISIONS

DEMOLITION PLAN

JOB REED2405001
ISSUE 07/19/2024
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CHK'D BY: DRH

C-101

SCALE

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OKLAHOMA

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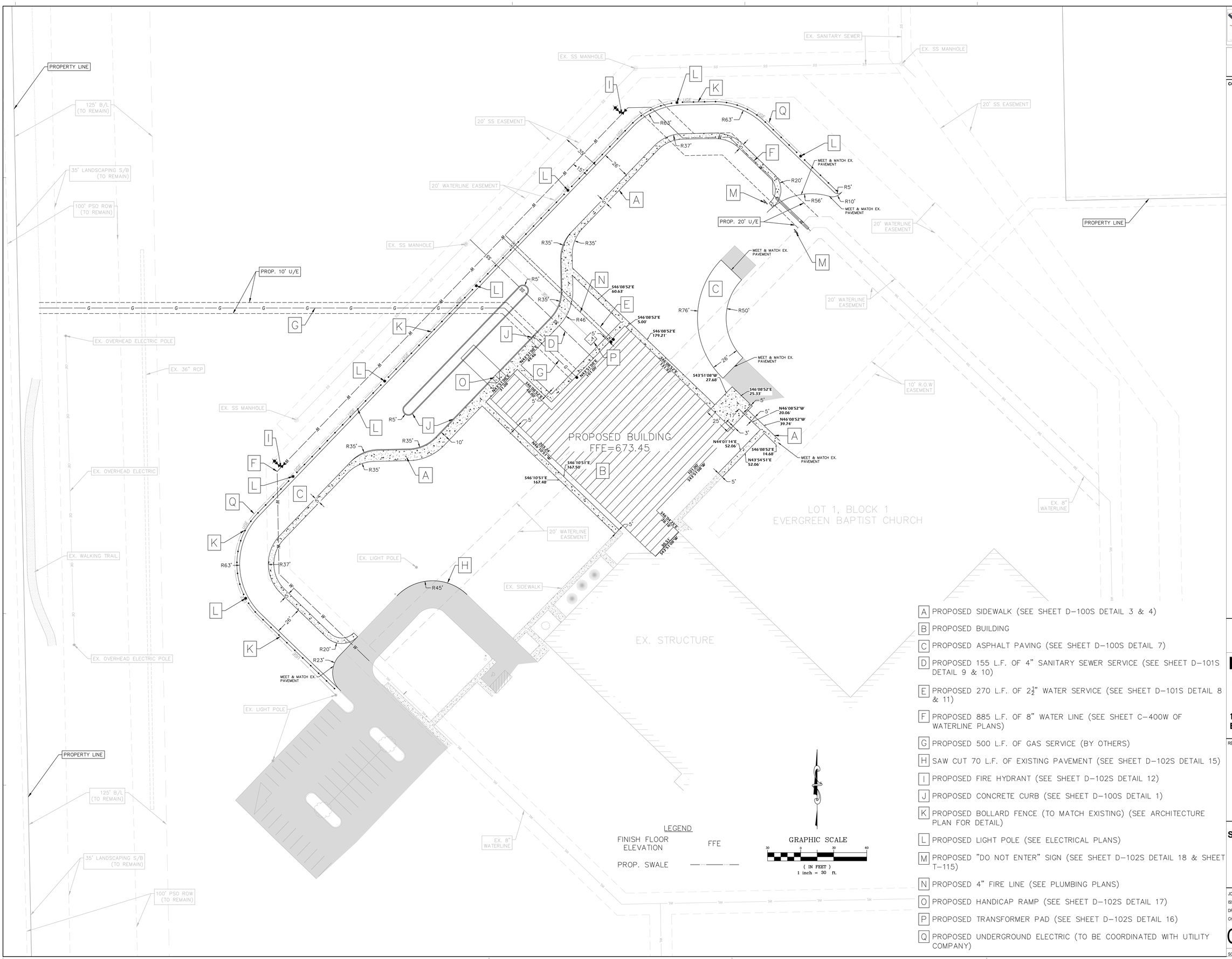

LEGEND

FINISH FLOOR ELEVATION — FFE

PROP. SWALE

GRAPHIC SCALE

30 0 30 60

(IN FEET)

1 inch = 30 ft.

- A PROPOSED SIDEWALK (SEE SHEET D-100S DETAIL 3 & 4)
- B PROPOSED BUILDING
- C PROPOSED ASPHALT PAVING (SEE SHEET D-100S DETAIL 7)
- D PROPOSED 155 L.F. OF 4" SANITARY SEWER SERVICE (SEE SHEET D-101S DETAIL 9 & 10)
- E PROPOSED 270 L.F. OF 2½" WATER SERVICE (SEE SHEET D-101S DETAIL 8 & 11)
- F PROPOSED 885 L.F. OF 8" WATER LINE (SEE SHEET C-400W OF WATERLINE PLANS)
- G PROPOSED 500 L.F. OF GAS SERVICE (BY OTHERS)
- H SAW CUT 70 L.F. OF EXISTING PAVEMENT (SEE SHEET D-102S DETAIL 15)
- I PROPOSED FIRE HYDRANT (SEE SHEET D-102S DETAIL 12)
- J PROPOSED CONCRETE CURB (SEE SHEET D-100S DETAIL 1)
- K PROPOSED BOLLARD FENCE (TO MATCH EXISTING) (SEE ARCHITECTURE PLAN FOR DETAIL)
- L PROPOSED LIGHT POLE (SEE ELECTRICAL PLANS)
- M PROPOSED "DO NOT ENTER" SIGN (SEE SHEET D-102S DETAIL 18 & SHEET T-115)
- N PROPOSED 4" FIRE LINE (SEE PLUMBING PLANS)
- O PROPOSED HANDICAP RAMP (SEE SHEET D-102S DETAIL 17)
- P PROPOSED TRANSFORMER PAD (SEE SHEET D-102S DETAIL 16)
- Q PROPOSED UNDERGROUND ELECTRIC (TO BE COORDINATED WITH UTILITY COMPANY)

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04.09.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

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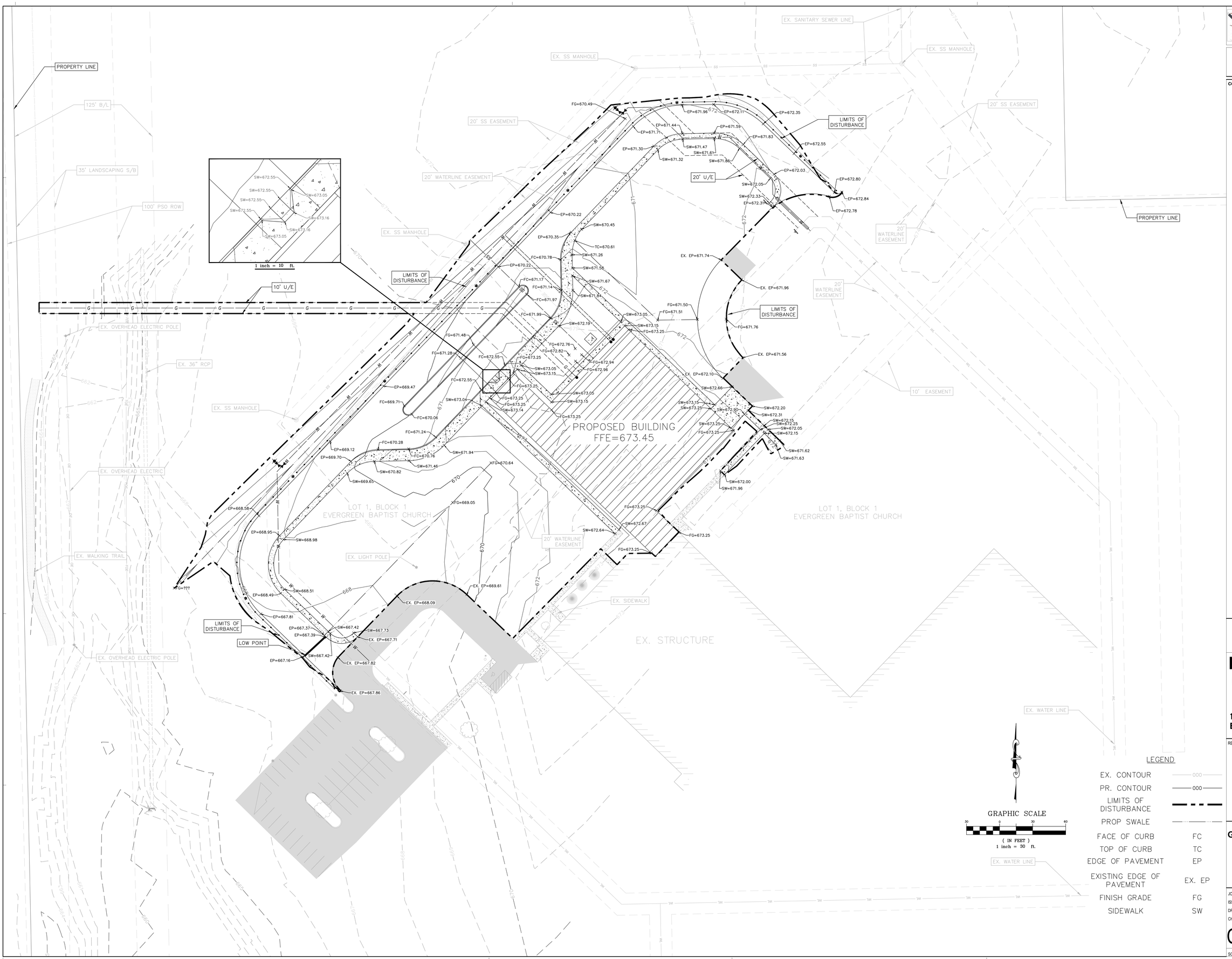
REVISIONS

SITE PLAN

JOB REED2405001
ISSUE 07/19/2024
DRAWN BY: IGM & ZWW
CHK'D BY: DRH

C-200

SCALE



LEGEND

EX. CONTOUR	000
PR. CONTOUR	000
LIMITS OF DISTURBANCE	
PROP SWALE	
FACE OF CURB	FC
TOP OF CURB	TC
EDGE OF PAVEMENT	EP
EXISTING EDGE OF PAVEMENT	EX. EP
FINISH GRADE	FG
SIDEWALK	SW

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REVISIONS

GRADING PLAN

JOB	REED2405001
ISSUE	07/19/2024
DRAWN BY:	IGM & ZWW
CHK'D BY:	DRH

C-201

LICENSED PROFESSIONAL ENGINEER
Destini Harrison 34377
OKLAHOMA

SCALE

1/16"=1'-0" 0 8' 16' 32'
3/32"=1'-0" 0 4' 8' 16' 32'
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3/4"=1'-0" 0 1' 2'
1"=1'-0" 0 6" 1' 2'
1 1/2"=1'-0" 0 3" 6" 1'
3"=1'-0" 0 3" 6"

4/19/2024 10:00:59 AM

A PROPOSED SIDEWALK (SEE SHEET D-100P DETAIL 3 & 4)

B PROPOSED ASPHALT PAVING (SEE SHEET D-100P DETAIL 7)

C PROPOSED CONCRETE CURB (SEE SHEET D-100P DETAIL 1)

D TRANSFORMER PAD (SEE SHEET D-102P DETAIL 16)

E PROP HANDICAP RAMP (SEE SHEET D-102P DETAIL 17)

PROPERTY LINE

125' B/L (TO REMAIN)

35' LANDSCAPING S/B (TO REMAIN)

100' PSO ROW (TO REMAIN)

EX. OVERHEAD ELECTRIC POLE

EX. 36" RCP

EX. 20' U/E

EX. OVERHEAD ELECTRIC

EX. WALKING TRAIL

EX. SANITARY SEWER

EX. SS MANHOLE

20' SS EASEMENT

20' WATERLINE EASEMENT

EX. PAVEMENT

20' WATERLINE EASEMENT

10' EASEMENT

PROPERTY LINE

PROP. 4" SANITARY SEWER SERVICE LINE @ 1.00% MINIMUM SLOPE

PROP. 10' U/E

PROP. GAS SERVICE

PROP. 2" WATER SERVICE LINE & FIRE LINE

PROP. 20' U/E

BEGIN 0" TO 6" VERTICAL CURB TRANSITION

END 0" TO 6" VERTICAL CURB TRANSITION

MEET & MATCH EX. PAVEMENT

MEET & MATCH EX. SIDEWALK

PROPOSED BUILDING
FFE=673.45

LOT 1, BLOCK 1
EVERGREEN BAPTIST CHURCH

EX. STRUCTURE

EX. SIDEWALK

EX. LIGHT POLE

EX. WATERLINE

N: 372854.76 E: 2600562.14
N: 372851.55 E: 2600559.06
N: 372848.67 E: 2600556.29
N: 372845.47 E: 2600553.21
N: 372854.40 E: 2600562.49
N: 372847.40 E: 2600563.39
N: 372844.51 E: 2600560.61
N: 372845.00 E: 2600553.69
1 inch = 10 ft

LEGEND

FINISH FLOOR ELEVATION	FFE	
NORTHING	N	
EASTING	E	
PROP. SWALE		

GRAPHIC SCALE
30 0 30 60
(IN FEET)
1 inch = 30 ft.

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3"=1'-0" 0 3" 6"

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EVERGREEN BAPTIST CHURCH - PHASE 5

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REVISIONS

OVERALL PAVING PLAN

JOB REED2405001
ISSUE 07/19/2024
DRAWN BY: IGM & ZWW
CHK'D BY: DRH

C-202

SCALE

LICENSED PROFESSIONAL ENGINEER
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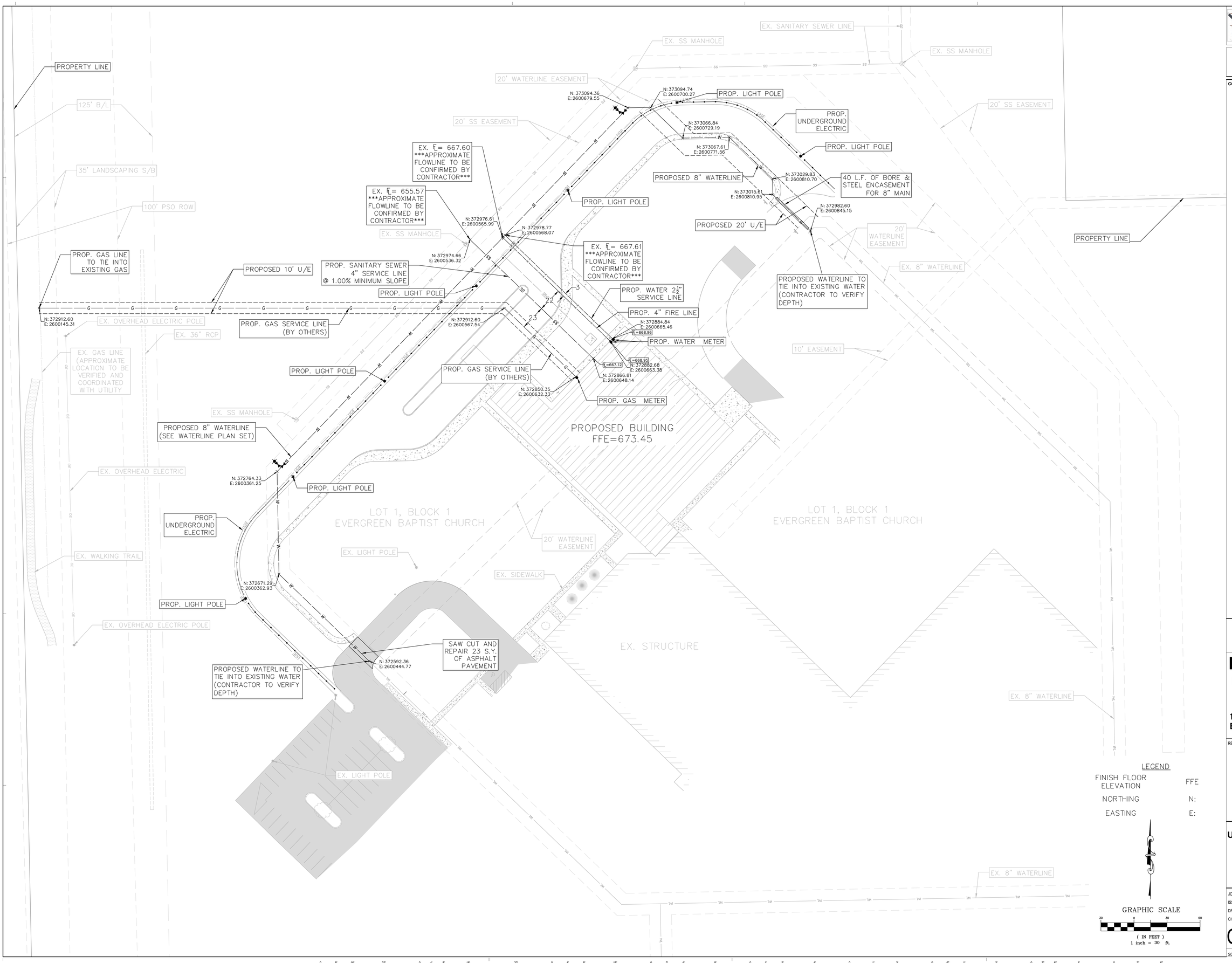
OKLAHOMA



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REVISIONS

UTILITY PLAN

JOB REED2405001
ISSUE 07/19/2024
DRAWN BY: IGM & ZWW
CHK'D BY: DRH

C-203

LICENSED PROFESSIONAL ENGINEER
Destini Harrison
34377
OKLAHOMA

SCALE

1 (1) WET CONNECTION
(2) 8"x45° BEND W/ RJ*
(1) FIRE HYDRANT
(1) FIRE HYDRANT RISER
(1) 8"x6" TEE
(1) 8" GATE VALVE & BOX
(1) 6" GATE VALVE & BOX
(1) 8"x8" TAPPING VALVE
(1) 8" SOLID SLEEVE

2 (1) WET CONNECTION
(6) 8"x45° BEND W/ RJ
(1) FIRE HYDRANT
(1) FIRE HYDRANT RISER
(1) 8"x6" TEE
(1) 8" GATE VALVE & BOX
(1) 6" GATE VALVE & BOX
(1) 8"x8" TAPPING VALVE
(1) 8" SOLID SLEEVE

100' PSO ROW
PROPERTY LINE
35' LANDSCAPING S/B
EX. WALKING TRAIL
EX. OVERHEAD ELECTRIC
EX. OVERHEAD ELECTRIC POLE
125' B/L
PROPOSED UNDERGROUND ELECTRIC
EX. 36" RCP
PROP. 10' U/E
EX. SS MANHOLE
20' WATERLINE EASEMENT
EX. SS MANHOLE
20' SS EASEMENT
EX. SS MANHOLE
20'
16'
PROP. 8" W/L LINE A
4" SLS
2" SLS
1
2
LOT 1, BLOCK 1
EVERGREEN BAPTIST CHURCH
SAW, CUT, & REPLACE 23 L.F. OF PAVEMENT
EX. LIGHT POLE
EX. PAVEMENT
EX. 8" WATERLINE
EX. PAVEMENT
20' WATERLINE EASEMENT
PROPOSED BUILDING
FFE=673.45
EX. SIDEWALK
EX. STRUCTURE
PROPOSED 20' WATERLINE EASEMENT
BORE & STEEL ENCASE 40 L.F. OF 8" MAIN
EX. PAVEMENT
EX. 8" WATERLINE
20' WATERLINE EASEMENT
125' B/L
17.5' UGE EASEMENT
35' LANDSCAPING S/B
EX. SANITARY SEWER
EX. SS MANHOLE
20' SS EASEMENT
20' WATERLINE EASEMENT
PROPERTY LINE
10' R.O.W. EASEMENT
LOT 1, BLOCK 1
EVERGREEN BAPTIST CHURCH
EX. 8" WATER LINE
EX. 8" WATER LINE

GRAPHIC SCALE
30 0 30 60
(IN FEET)
1 inch = 30 ft.

4/19/2024 10:00:50 AM

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3/32"=1'-0" 0 4' 8' 16' 32'
1/8"=1'-0" 0 4' 8' 16'
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REVISIONS

WATER OVERALL

JOB REED2405001
ISSUE 07/19/2024
DRAWN BY: IGM & ZWW
CHK'D BY: DRH

C-400

LICENSED PROFESSIONAL ENGINEER
Destini Harrison 34377
OKLAHOMA

SCALE

1. STA. 0+00.00 CONST.
(1) WET CONNECTION
(1) 8" SOLID SLEEVE
(1) 8"x8" TAPPING VALVE
ft=664.60
N: 372592.36
E: 2600444.77

2. STA. 1+13.70 CONST.
(1) 8"x45° BEND, *RJ
ft=664.45

3. STA. 2+06.76 CONST.
(1) 8"x45° BEND, *RJ
ft=664.86

4. STA. 2+11.76 CONST.
(1) FIRE HYDRANT
(1) FIRE HYDRANT RISER
(1) 8"x6" TEE
(1) 6" GATE VALVE & BOX
ft=664.87

5. STA. 2+14.76 CONST.
(1) 8" GATE VALVE & BOX
ft=664.95

6. STA. 5+57.27 CONST.
(1) FIRE HYDRANT
(1) FIRE HYDRANT RISER
(1) 8"x6" TEE
(1) 6" GATE VALVE & BOX
ft=667.16

7. STA. 6+60.27 CONST.
(1) 8" GATE VALVE & BOX
ft=667.17

8. STA. 6+65.27 CONST.
(1) 8"x45° BEND, *RJ
ft=667.17

9. STA. 6+85.99 CONST.
(1) 8"x45° BEND, *RJ
ft=667.30

10. STA. 7+26.18 CONST.
(1) 8"x45° BEND, *RJ
ft=667.30

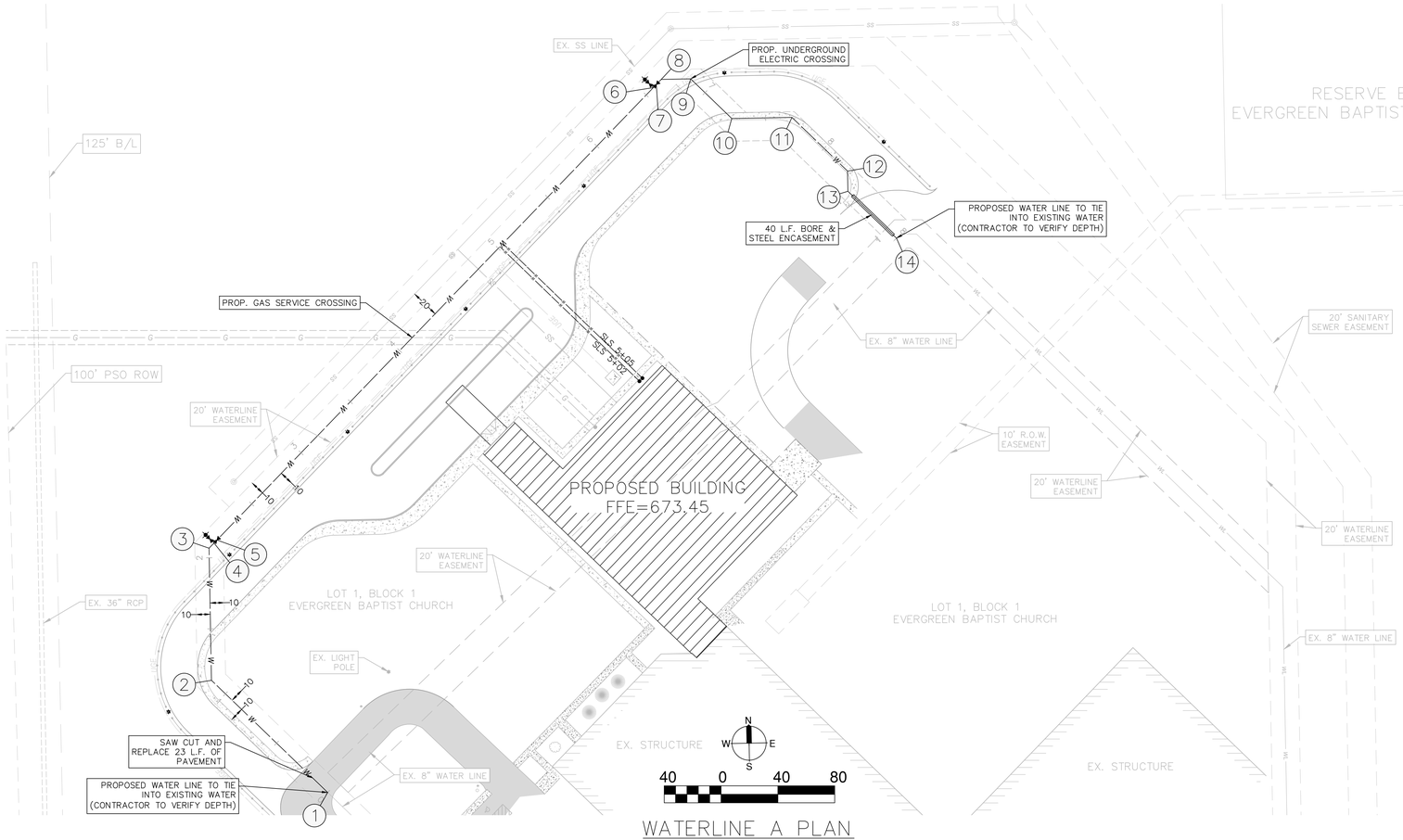
11. STA. 7+68.56 CONST.
(1) 8"x45° BEND, *RJ
ft=667.69

12. STA. 8+22.95 CONST.
(1) 8"x45° BEND, *RJ
ft=668.18

13. STA. 8+37.18 CONST.
(1) 8"x45° BEND, *RJ
ft=668.31

14. STA. 8+84.71 CONST.
(1) WET CONNECTION
(1) 8" SOLID SLEEVE
(1) 8"x8" TAPPING VALVE
ft=668.94
N: 372982.60
E: 2600845.15

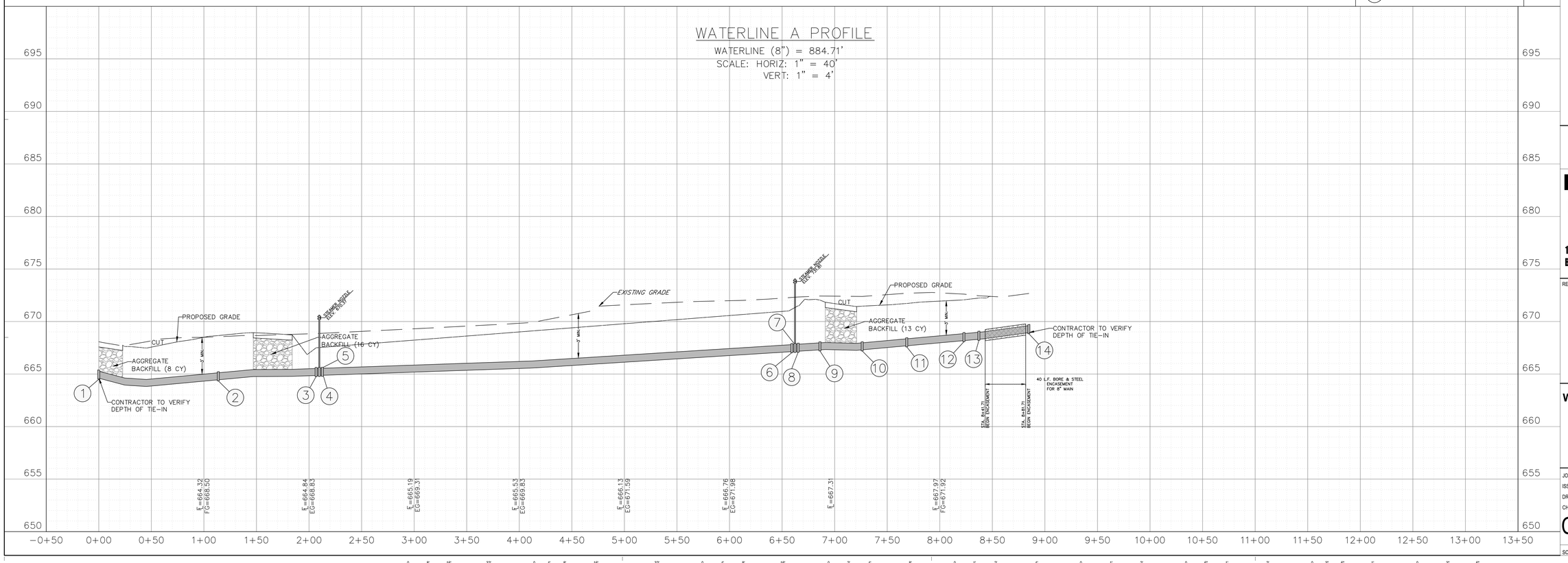
*RJ – RESTRAINED JOINTS



WATERLINE A PLAN

LEGEND

WATER LINE	W
SANITARY SEWER LINE	SS
GAS LINE	G
PROP. GROUND	
EX. ℄ OF CONST.	
⊗	UTILITY CROSSING (SEE PROFILE)



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1 1/2"=1'-0" 0 3" 6" 1'
3"=1'-0" 0 3" 6"

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REVISION 2
04.09.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

WATER LINE A

JOB REED2405001
ISSUE 07/19/2024
DRAWN BY: IGM & ZWW
CHK'D BY: DRH

C-401W

LICENSED PROFESSIONAL ENGINEER
Destini Harrison 34377
OKLAHOMA

SCALE

STORM WATER MANAGEMENT PLAN

SITE DESCRIPTION

PROJECT LIMITS: PROJECT IS LOCATED IN BROKEN ARROW, OKLAHOMA BOUND BY S MINGO RD ON THE WEST, S GARNETT RD ON THE EAST, E 111TH ST ON THE SOUTH & W NEW ORLEANS ON THE NORTH.

PROJECT DESCRIPTION: EXPANSION OF EXISTING BUILDING, 8" WATER MAIN EXTENSION, UTILITY SERVICE LINES, AND ASPHALT PAVEMENT FOR AN EXISTING CHURCH.

SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES:

1. INSTALL TEMP. SEDIMENT FILTERS, SOD DITCHES, & VEGETATIVE MULCH
2. VEGETATIVE STRIPPING
3. UNDERCUT & STOCKPILE EXISTING TOPSOIL
4. ROADWAY EXCAVATION AND EMBANKMENT
5. ROADWAY AND UTILITY CONSTRUCTION
6. BUILDING CONSTRUCTION
7. CONSTRUCT FINISHED PAVING
8. SPREAD TOPSOIL
9. INSTALL PERMANENT EROSION CONTROL MEASURES
10. INSTALL SOLID SLAB SODDING

SOIL TYPE: OKAY LOAM, 0 TO 5 PERCENT SLOPES

TOTAL AREA OF THE CONSTRUCTION SITE: 28.52 AC

ESTIMATED AREA TO BE DISTURBED: 3.27 AC

OFFSITE AREA TO BE DISTURBED: N/A
(FOR CONTRACTOR USE)

TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 11.90 AC (INCLUDING PARKING AND BUILDINGS)

TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 13.75 AC (INCLUDING PARKING AND BUILDINGS)

POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.46 (COMPOSITE)

LATITUDE & LONGITUDE OF CENTER OF PROJECT: 36°00'14.8"N; 95°51'45.7"W

PROJECT WILL DISCHARGE TO:

NAME OF RECEIVING WATERS: HAIKEY CREEK

SENSITIVE WATERS OR WATERSHEDS: YES ☐ NO ☒

303(d) IMPAIRED WATERS: YES ☐ NO ☒

IF YES, LIST IMPAIRMENT:

LOCATED IN A TMDL: YES ☐ NO ☒

IF YES, LOCATION:

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

- X TEMPORARY SEEDING
- X PERMANENT SODDING, SPRIGGING OR SEEDING
- _____ VEGETATIVE MULCHING
- _____ SOIL RETENTION BLANKET
- X PRESERVATION OF EXISTING VEGETATION

NOTE: TEMPORARY EROSION CONTROL METHODS MUST BE USED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR OVER 14 DAYS. METHODS USED WILL BE AS SHOWN ON PLANS, OR AS DIRECTED BY THE ENGINEER.

STRUCTURAL PRACTICES:

- _____ STABILIZED CONSTRUCTION EXIT
- X TEMPORARY SILT FENCE
- _____ TEMPORARY SILT DIKES
- _____ TEMPORARY FIBER LOG
- _____ DIVERSION, INTERCEPTOR OR PERIMETER DIKES
- _____ DIVERSION, INTERCEPTOR OR PERIMETER SWALES
- _____ ROCK FILTER DAMS
- _____ TEMPORARY SLOPE DRAIN
- _____ PAVED DITCH W/ DITCH LINER PROTECTION
- _____ TEMPORARY DIVERSION CHANNELS
- _____ TEMPORARY SEDIMENT BASINS
- _____ TEMPORARY SEDIMENT TRAPS
- _____ TEMPORARY SEDIMENT FILTERS
- _____ TEMPORARY SEDIMENT REMOVAL
- _____ RIP RAP
- _____ INLET SEDIMENT FILTER
- _____ TEMPORARY BRUSH SEDIMENT BARRIERS
- _____ ROCK BAG BARRIERS
- _____ TEMPORARY STREAM CROSSINGS

OFFSITE VEHICLE TRACKING:

- _____ HAUL ROADS DAMPENED FOR DUST CONTROL
- X LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
- X EXCESS DIRT ON ROAD REMOVED DAILY

NOTES:

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

MAINTENANCE AND INSPECTION:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER FROM THE BEGINNING OF CONSTRUCTION UNTIL AN ACCEPTABLE VEGETATIVE COVER IS ESTABLISHED. INSPECTION BY THE CONTRACTOR AND ANY NECESSARY REPAIRS SHALL BE PERFORMED ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCH AS RECORDED BY A NON-FREEZING RAIN GAUGE TO BE LOCATED ON SITE. POTENTIALLY ERODIBLE AREAS, DRAINAGEWAYS, MATERIAL STORAGE, STRUCTURAL DEVICES, CONSTRUCTION ENTRANCES AND EXITS ALONG WITH EROSION AND SEDIMENT CONTROL LOCATIONS ARE EXAMPLES OF SITES THAT NEED TO BE INSPECTED.

WASTE MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF CONSTRUCTION WASTE MATERIAL IS REQUIRED BY THE CONTRACTOR. MATERIALS INCLUDE STOCKPILES, SURPLUS, DEBRIS AND ALL OTHER BY-PRODUCTS FROM THE CONSTRUCTION PROCESS. PRACTICES INCLUDE DISPOSAL, PROPER MATERIALS HANDLING, SPILL PREVENTION AND CLEANUP MEASURES. CONTROLS AND PRACTICES SHALL MEET THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL AGENCIES.

HAZARDOUS MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF HAZARDOUS WASTE MATERIALS IS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS, STATE AND FEDERAL REGULATIONS TO ENSURE CORRECT HANDLING, DISPOSAL, SPILL PREVENTION AND CLEANUP MEASURES. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO: PAINTS, ACIDS, CLEANING SOLVENTS, CHEMICAL ADDITIVES, CONCRETE CURING COMPOUNDS AND CONTAMINATED SOILS.

GENERAL NOTES:

A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO COMPLY WITH THE OKAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OKPDES) REGULATIONS. THIS PLAN IS INITIATED DURING THE DESIGN PHASE, CONFIRMED IN THE PRE-WORK MEETINGS AND AVAILABLE ON THE JOB SITE ALONG WITH COPIES OF THE NOTICE OF INTENT (NOI) FORM AND PERMIT CERTIFICATE THAT HAVE BEEN FILED WITH THE OKAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ). THE PLAN MUST BE KEPT CURRENT WITH UP-TO-DATE AMENDMENTS DURING THE PROGRESSION OF THE PROJECT. ALL CONTRACTOR OFF-SITE OPERATIONS ASSOCIATED WITH THE PROJECT MUST BE DOCUMENTED IN THE SWPPP, I.E., BORROW PITS, WORK ROADS, DISPOSAL SITES, ASPHALT/CONCRETE PLANTS, ETC. THE BASIC GOAL OF STORM WATER MANAGEMENT IS TO IMPROVE WATER QUALITY BY REDUCING POLLUTANTS IN STORM WATER DISCHARGES. RUNOFF FROM CONSTRUCTION SITES HAS A POTENTIAL FOR POLLUTION DUE TO EXPOSED SOILS AND THE PRESENCE OF HAZARDOUS MATERIALS USED IN THE CONSTRUCTION PROCESS. THE PREVENTION OF SOIL EROSION, CONTAINMENT OF HAZARDOUS MATERIALS AND/OR THE INTERCEPTION OF THESE POLLUTANTS BEFORE LEAVING THE CONSTRUCTION SITE ARE THE BEST PRACTICES FOR CONTROLLING STORM WATER POLLUTION.

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04.09.2025

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10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

STORMWATER MANAGEMENT PLAN

JOB REED2405001
ISSUE 07/19/2024
DRAWN BY: IGM & ZWW
CHK'D BY: DRH

LICENSED PROFESSIONAL ENGINEER
Destini Harrison 34377
OKLAHOMA

C-500

SCALE

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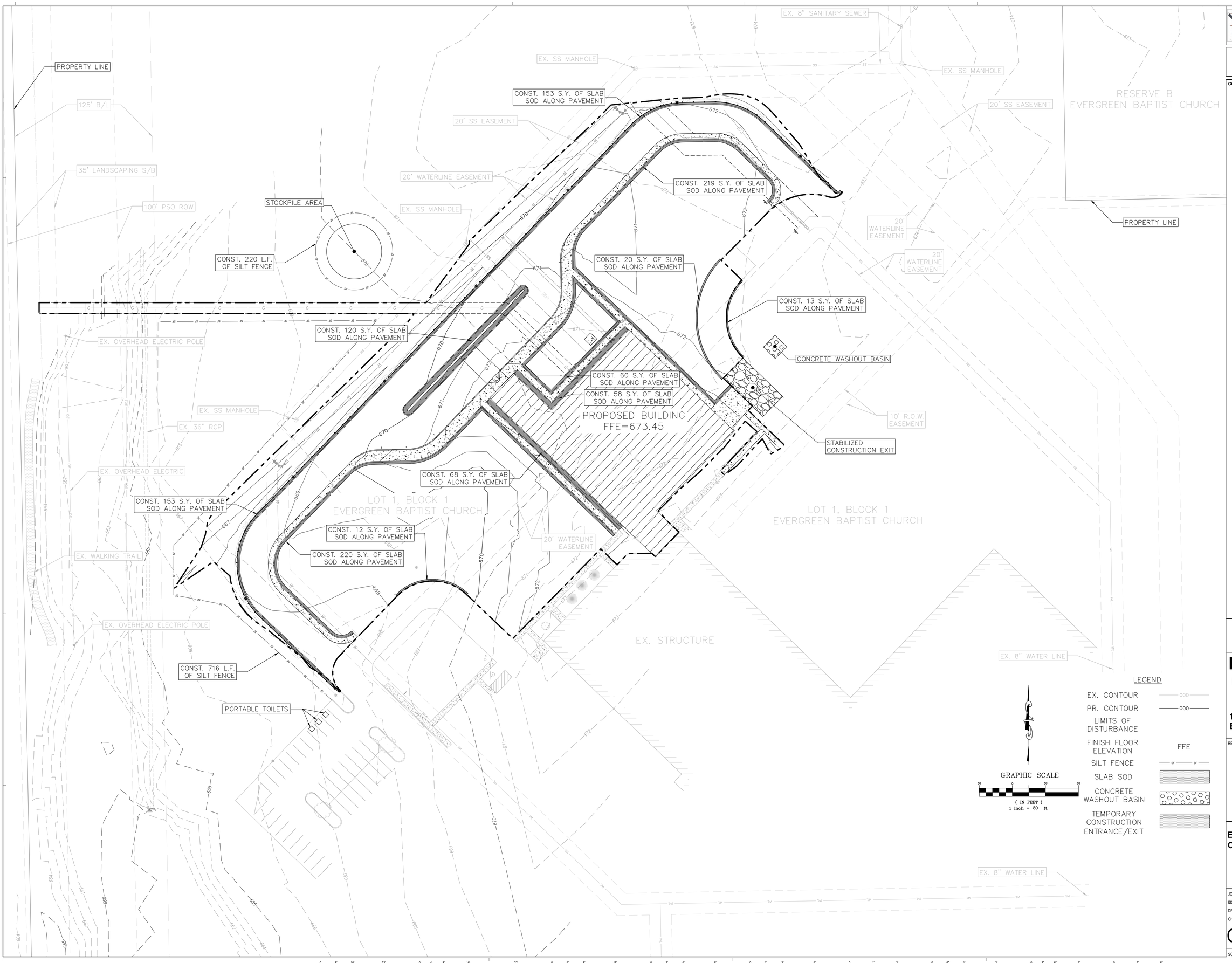

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1/4"=1'-0" 0 2' 4' 8'
1/2"=1'-0" 0 1' 2' 4'
3/4"=1'-0" 0 1' 2'
1"=1'-0" 0 6" 1' 2'
1 1/2"=1'-0" 0 3" 6" 1'
3"=1'-0" 0 3" 6"

SCALE

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REVISIONS

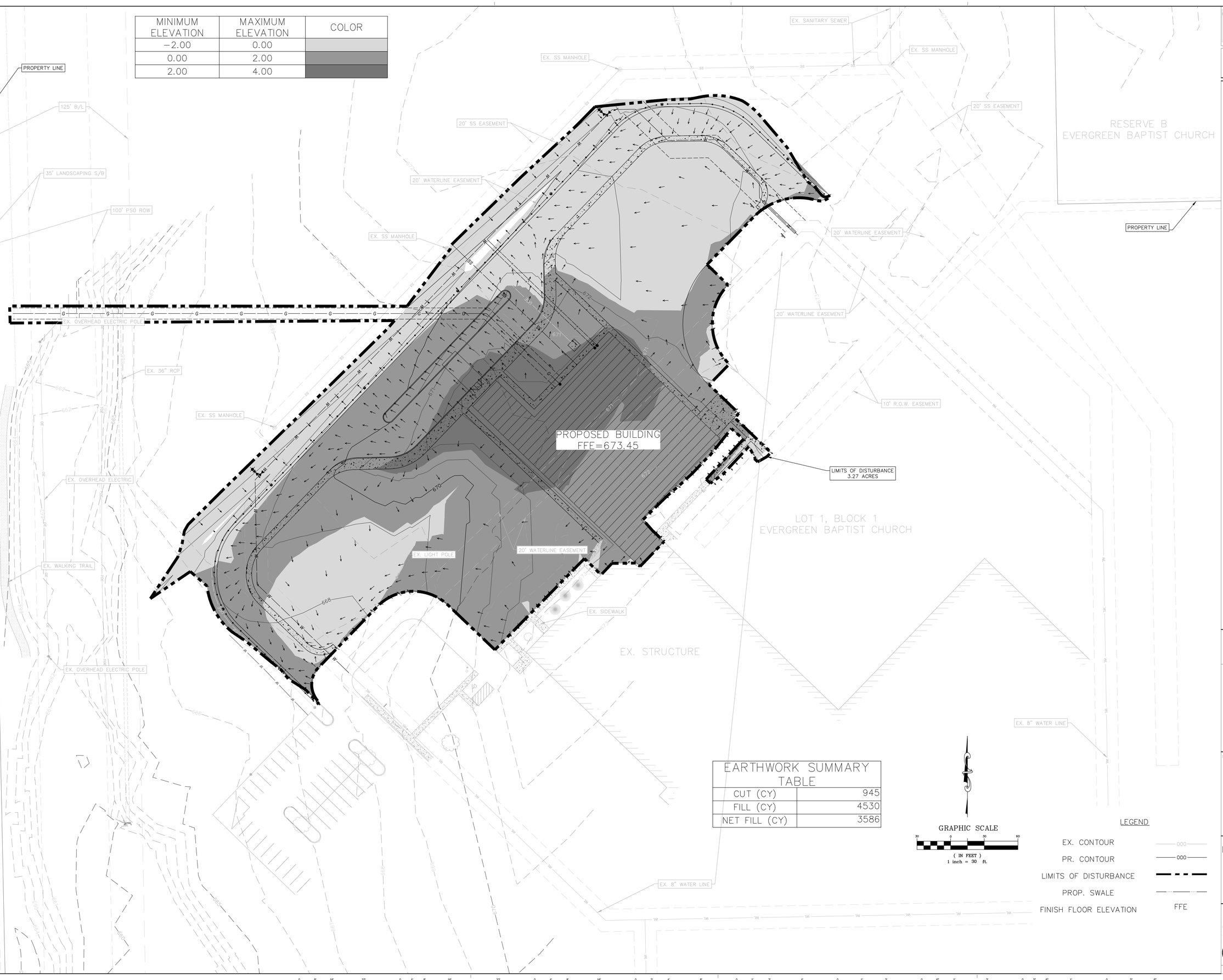
EROSION CONTROL

JOB REED2405001
ISSUE 07/19/2024
DRAWN BY: IGM & ZWW
CHK'D BY: DRH

C-501

LICENSED PROFESSIONAL ENGINEER
Destini Harrison 34377
OKLAHOMA

MINIMUM ELEVATION	MAXIMUM ELEVATION	COLOR
−2.00	0.00	
0.00	2.00	
2.00	4.00	



EARTHWORK SUMMARY TABLE	
CUT (CY)	945
FILL (CY)	4530
NET FILL (CY)	3586

GRAPHIC SCALE

30 0 30 60

(IN FEET)
1 inch = 30 ft.

LEGEND

EX. CONTOUR	000
PR. CONTOUR	000
LIMITS OF DISTURBANCE	
PROP. SWALE	
FINISH FLOOR ELEVATION	FFE

4/19/2024 10:00:59 AM

1/16"=1'-0" 0 8' 16' 32'
3/32"=1'-0" 0 4' 8' 16' 32'
1/8"=1'-0" 0 4' 8' 16'
1/4"=1'-0" 0 2' 4' 8'
1/2"=1'-0" 0 1' 2' 4'
3/4"=1'-0" 0 1' 2'
1"=1'-0" 0 6" 1' 2'
1 1/2"=1'-0" 0 3" 6" 1'
3"=1'-0" 0 3" 6"

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EARTH CHANGE PLAN

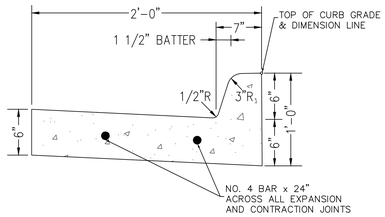
JOB REED2405001
ISSUE 07/19/2024
DRAWN BY: IGM & ZWW
CHK'D BY: DRH

C-600

SCALE

LICENSED PROFESSIONAL ENGINEER
Destini Harrison
34377
OKLAHOMA

1

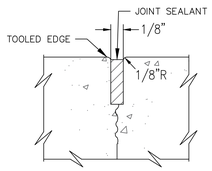


CONCRETE BARRIER CURB & GUTTER DETAIL
N.T.S.

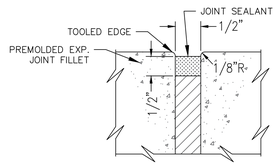
NOTES:

1. PROVIDE EXPANSION JOINTS WITH ½" PREFORMED, NON-EXTRUDING EXPANSION JOINT FILLET MATERIAL AT:
   A. MAXIMUM 60' INTERVALS,
   B. P.C. AND P.T. OF CURVES WITH RADII LESS THAN 100',
   C. MID-POINT OF CURB RETURNS, AND
   D. STRUCTURES.
2. PROVIDE CONTRACTION JOINTS (TOOLED OR SAWN) AT 10' INTERVALS.
3. AN APPROVED WITH PIGMENTED CURING COMPOUND SHALL BE APPLIED TO THE SURFACE OF THE CURB AND GUTTER AS SOON AS IT HAS BEEN POURED AND FINISHED.
4. CURB SHALL BE STAMPED WITH A 'W' OR 'S' (2" MIN) AT WATER AND SEWER SERVICE LOCATIONS. POSTS AND EXCAVATE A 4" X 4" TRENCH UP SLOPE ALONG THE LINE OF POSTS.

2

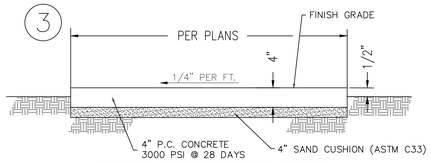


CONTRACTION JOINT DETAIL
N.T.S.



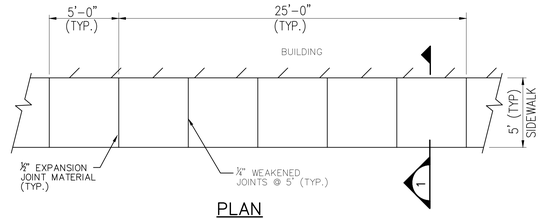
EXPANSION JOINT DETAIL
N.T.S.

3

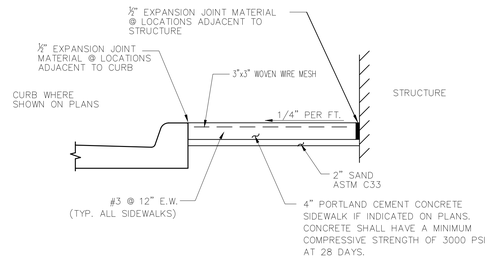


SIDEWALK SECTION - NON REINFORCED DETAIL
N.T.S.

4



PLAN



1 SECTION

SIDEWALK DETAIL
N.T.S.

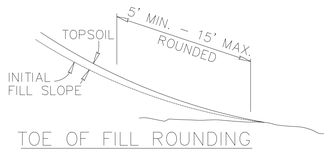
NOTES:

1. SPACE TRANSVERSE CONTRACTION JOINTS UNIFORMLY AT INTERVALS EQUAL TO THE WALK WIDTH.
2. PLACE PREMOLDED EXPANSION JOINT MATERIAL AROUND ALL STRUCTURES IN NEW WALK AND ALONGSIDE ALL ADJACENT BUILDINGS AND ABUTTING STRUCTURES TO THE NEW CONCRETE SIDEWALK.
3. ½" EXPANSION JOINTS SHALL BE SPACED NOTE MORE THAN 60'-0" O.C.
4. SEAL EXPANSION JOINTS WITH TYPE SS-S-1401 POURABLE SEALANT.

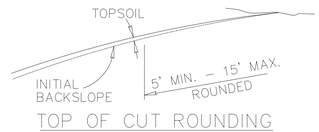
5

ROUNDING DETAIL

INTERSECTION OF CUT AND/OR FILL SLOPES WITH GROUND LINE TO BE ROUNDED AS PART OF FINISHING OPERATIONS. ROUNDING SHALL BE 5' MINIMUM FOR SMALLER CUTS AND FILLS TO 15' MAXIMUM FOR LARGER CUTS AND FILLS OR AS DESIGNATED BY THE ENGINEER. COST OF ROUNDING TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS OF WORK.

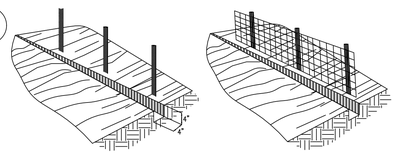


TOE OF FILL ROUNDING



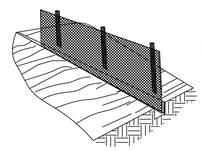
TOP OF CUT ROUNDING

6

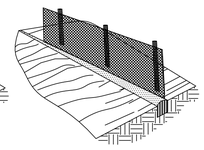


STEP 1
SET POSTS AND EXCAVATE A 4" X 4" TRENCH UP SLOPE ALONG THE LINE OF POSTS.

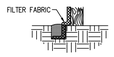
STEP 2
STAPLE WIRE FENCING TO THE POSTS



STEP 3
ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH



STEP 4
BACKFILL AND COMPACT THE EXCAVATED SOIL



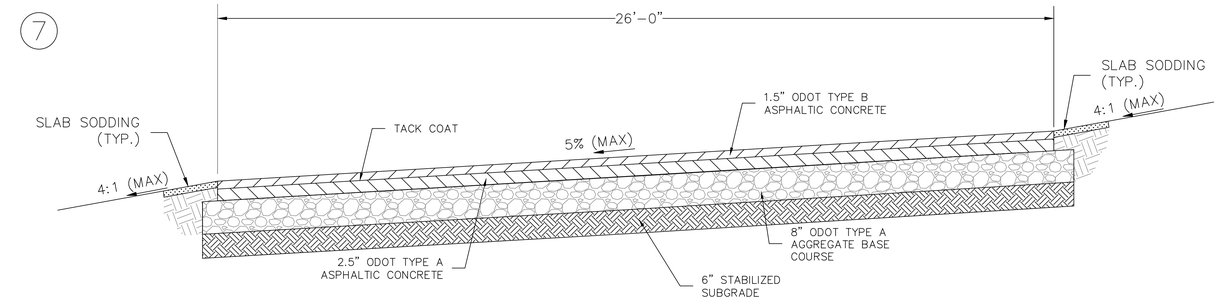
STEP 5
EXTENSION OF FABRIC AND WIRE INTO THE TRENCH

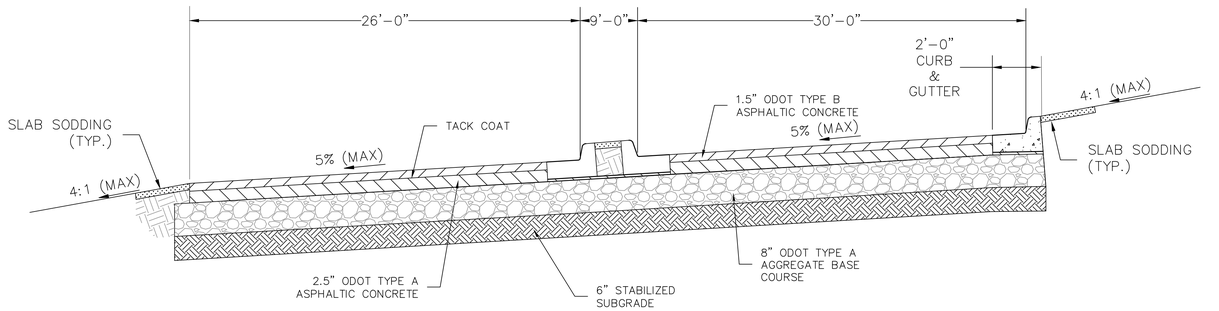
STORMWATER POLLUTION PREVENTION PLAN NOTES

1. CONSTRUCT TEMPORARY ROCK CONSTRUCTION ENTRANCE, SILT FENCE, AND ANY ADDITIONAL SEDIMENT CONTROLS NECESSARY TO PREVENT EROSION FROM LEAVING THE SITE.
2. PLANT TEMPORARY VEGETATION ON DISTURBED AREAS WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER LAND DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD OF 14 DAYS OF MORE. THE APPROPRIATE TEMPORARY OR PERMANENT VEGETATIVE PRACTICES SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS.
3. CONSTRUCT BUILDINGS AND PARKING LOTS.
4. FINISH SLOPES AROUND BUILDINGS, ROUGHEN SLOPES, ADD TOPSOIL AND VEGETATE.
5. AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES, VEGETATING THESE AREAS.

SILT FENCE CONSTRUCTION DETAIL
N.T.S.

7





TYPICAL SECTION NO. 1 ACCESS ROAD
N.T.S

NOTES:

1. ALL PAVING, AGGREGATE MATERIALS AND CONSTRUCTION SHOULD MEET THE REQUIREMENTS OF THE 2020 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. AGGREGATE BASE SHOULD CONSIST OF A BLEND OF SAND AND GRAVEL WHICH MEETS OKLAHOMA DEPARTMENT OF TRANSPORTATION GRADING SPECIFICATIONS.
3. THE AGGREGATE BASE MUST BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY (ASTM D698).

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DETAILS

JOB	REED2405001
ISSUE	07/19/2024
DRAWN BY:	IGM & ZWW
CHK'D BY:	DRH

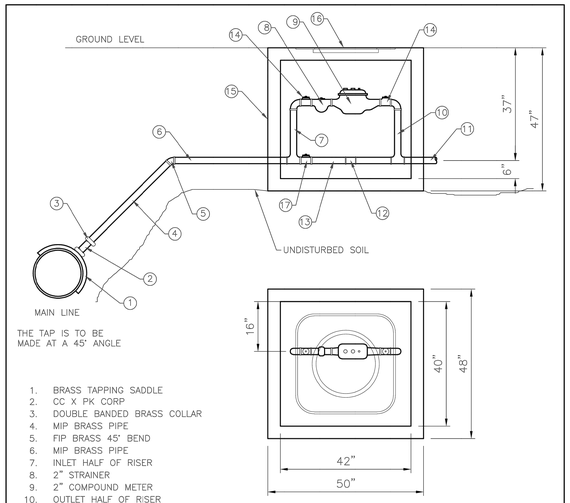
D-100

LICENSED PROFESSIONAL ENGINEER — Destini Harrison 34377 — OKLAHOMA

SCALE

4/19/2024 10:00:50 AM

8

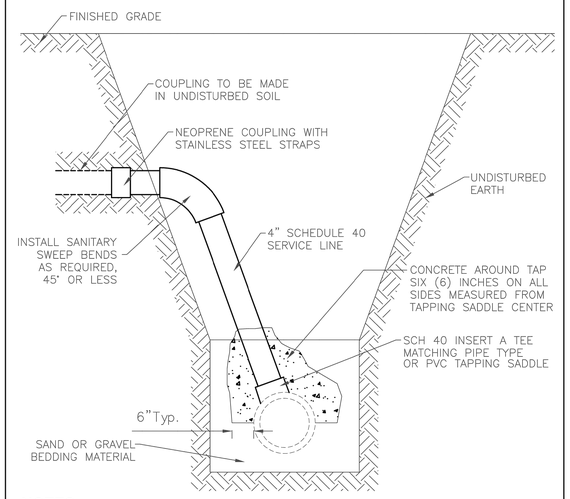


1. BRASS TAPPING SADDLE
2. CC X PK CORP
3. DOUBLE BANDED BRASS COLLAR
4. MIP BRASS PIPE
5. FIP BRASS 45° BEND
6. MIP BRASS PIPE
7. INLET HALF OF RISER
8. 2" STRAINER
9. 2" COMPOUND METER
10. OUTLET HALF OF RISER
11. 12" MIP BRASS NIPPLE
12. 1 1/4" SOLDER X SOLDER COLLAR
13. 1 1/4" COPPER TUBING
14. FLANGE X PK BALL VALVE
15. VAULT
16. VAULT RING & LID
17. PK X PK CURB STOP

2" COMPOUND METER SETTING

CITY OF BROKEN ARROW	STANDARD DRAWING: STD W 14
	LAST REVISION DATE: 8/01/99
DRAWN BY: ZSS	CHECKED BY: TSR	APPROVED: KDS	DATE: 02/01/2024

9



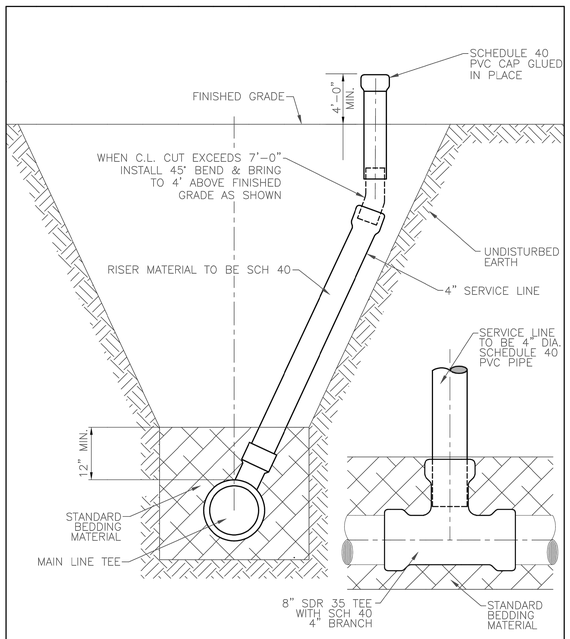
NOTES:

1. PVC SHOWN, HOWEVER, CLAY TILE, CONCRETE, AND DUCTILE IRON SHALL BE TAPPED IN SAME MANNER WITH CHANGE OF TAPPING SADDLE AND EXPANDING POLYURETHANE IN PLACE OF SOLVENT WELDING.
2. ALL MAIN LINE HOLES TO BE SAWED OR DRILLED AND COUPON PRESENTED AT TIME OF INSPECTION.
3. TAPS SHALL BE LEFT UNCOVERED FOR ONE (1) FOOT ON EACH SIDE OF SADDLE, UNTIL TAP IS INSPECTED.

SANITARY SEWER TAP DETAIL (EXISTING SEWER)

CITY OF BROKEN ARROW	STANDARD DRAWING: STD SS 02
	LAST REVISION DATE: 2/01/2012
DRAWN BY: ZSS	CHECKED BY: TSR	APPROVED: KDS	DATE: 02/01/2024

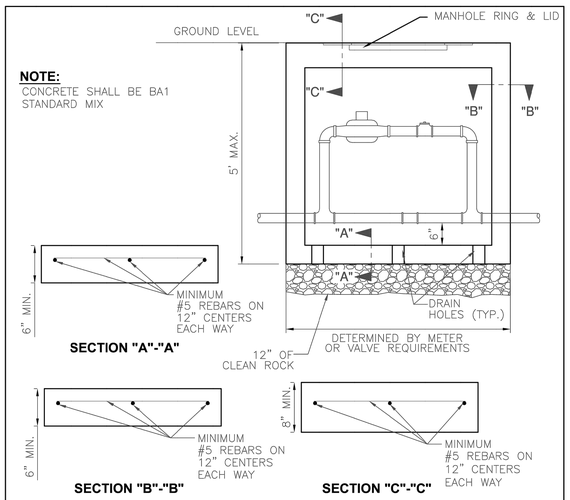
10



SANITARY SEWER RISER DETAIL (NORMAL TRENCH LESS THAN 15' DEEP)

CITY OF BROKEN ARROW	STANDARD DRAWING: STD SS 03
	LAST REVISION DATE: 8/01/99
DRAWN BY: ZSS	CHECKED BY: TSR	APPROVED: KDS	DATE: 02/01/2024

11



NOTES:

1. VAULTS PLACED IN PAVEMENT SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
2. PRECAST MANHOLE SECTIONS OR CULVERTS MAY BE USED IN PLACE OF CAST IN PLACE VAULTS IF SIZE REQUIREMENTS ARE MET.
3. FOR VAULTS OVER 5 FEET DEEP, PRECAST MANHOLE SECTIONS WITH STEPS SHALL BE USED TO PROVIDE ACCESS TO THE VAULT.
4. EXACT DIMENSIONS AND REQUIREMENTS FOR EACH VAULT SHALL BE ESTABLISHED BY THE DESIGN ENGINEER.
5. MANHOLE RING AND LID SHALL BE THE CITY STANDARD AS SHOWN ON STD. W 03.

METER OR VALVE VAULT DETAIL

CITY OF BROKEN ARROW	STANDARD DRAWING: STD W 17
	LAST REVISION DATE: 8/01/99
DRAWN BY: ZSS	CHECKED BY: TSR	APPROVED: KDS	DATE: 02/01/2024

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CONSULTANT:

Reference Cover Sheet for Consultant Directory

REVISION 2
04.09.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

DETAILS

JOB REED2405001
ISSUE 07/19/2024
DRAWN BY: IGM & ZWW
CHK'D BY: DRH

D-101

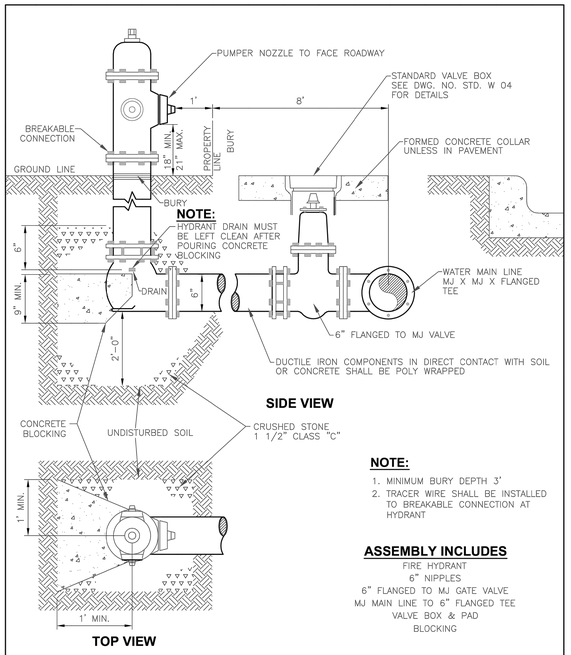
LICENSED PROFESSIONAL ENGINEER — Destini Harrison 34377 — OKLAHOMA

SCALE

4/19/2024 10:00:50 AM

1/16"=1'-0" 0 8' 16' 32'
3/32"=1'-0" 0 4' 8' 16' 32'
1/8"=1'-0" 0 4' 8' 16'
1/4"=1'-0" 0 2' 4' 8'
1/2"=1'-0" 0 1' 2' 4'
3/4"=1'-0" 0 1' 2'
1"=1'-0" 0 6" 1' 2'
1 1/2"=1'-0" 0 3" 6" 1'
3"=1'-0" 0 3' 6'

12



NOTE:

1. MINIMUM BURY DEPTH 3'
2. TRACER WIRE SHALL BE INSTALLED TO BREAKABLE CONNECTION AT HYDRANT

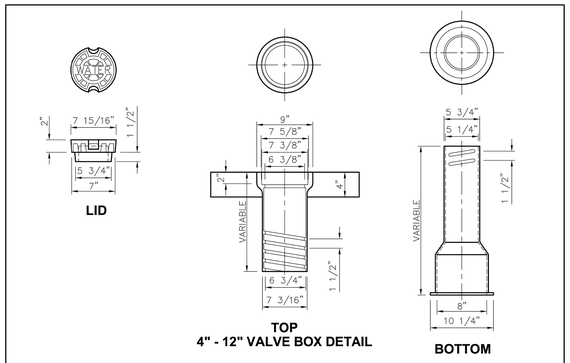
ASSEMBLY INCLUDES

FIRE HYDRANT
6" NIPPLES
6" FLANGED TO MJ GATE VALVE
MJ MAIN LINE TO 6" FLANGED TEE
VALVE BOX & PAD
BLOCKING

FIRE HYDRANT ASSEMBLY DETAIL

CITY OF BROKEN ARROW	STANDARD DRAWING: STD W 09
	LAST REVISION DATE: 10/26/21
DRAWN BY: ZSS	CHECKED BY: TSR
APPROVED: KDS	DATE: 02/01/2024

13



MINIMUM REQUIRED WEIGHTS	
LID	13 LBS
TOP (16")	30 LBS
BOTTOM (24")	30 LBS

NOTES:

1. WATER LINE CONTRACTOR TO PLACE 2 FOOT SQUARE CONCRETE PAD AROUND EACH WATER VALVE AFTER FINAL GRADING HAS BEEN COMPLETED AND TRENCHES HAVE SETTLED.
2. VALVE BOXES REQUIRING OVER 2 ADDITIONAL BOTTOM SECTIONS SHALL BE EXTENDED USING C900 DR18 PVC PIPE WITH A BOTTOM AND TOP SECTION PLACED ON TOP OF THE C900 DR18 PVC PIPE.

VALVE BOX DETAIL

CITY OF BROKEN ARROW	STANDARD DRAWING: STD W 04
	LAST REVISION DATE: 8/01/99
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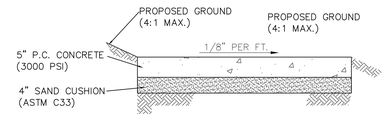
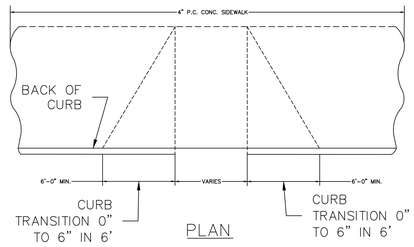
APPROVED: KDS	DATE: 02/01/2024

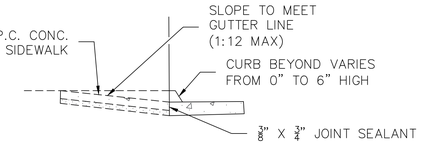
16



TYPICAL SECTION UTILITY PAD
N.T.S.

17

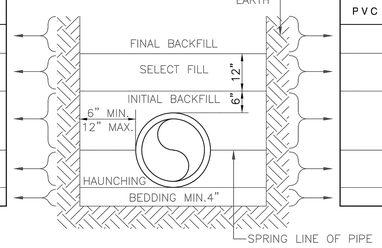




TYPE A HANDICAP RAMP
N.T.S.

14

NON-PAVED AREAS			PAVED AREAS		
P V C	DUCTILE IRON	CONCRETE	P V C	DUCTILE IRON	CONCRETE
EXCAVATED MATERIAL			CRUSHED ROCK		
SELECT FILL			CRUSHED ROCK		
SELECT FILL			3/8" CHIPS		
SELECT FILL			3/8" CHIPS		
3/8" CHIPS			3/8" CHIPS		



NOTES:

1. SELECT FILL CONSISTS OF EXCAVATED MATERIALS CONTAINING NO ROCKS LARGER THAN 2 INCHES.
2. CRUSHED ROCK SHALL BE ODOT TYPE A AGGREGATE BASE
3. BEDDING REQUIRED ONLY FOR ROCK EXCAVATION.
4. COMPACTION REQUIREMENTS:
   a. NON– PAVED AREAS: 90% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESIONLESS SOILS AND 85% FOR COHESIVE SOILS.
   b. PAVED AREAS: 95% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESIONLESS SOILS.
5. FILLS OVER 10 FEET DEEP – MATERIAL IN THE AREA FROM SELECT FILL TO BEDDING SHALL BE 3/8" CHIPS OR TYPE A AGGREGATE BASE.
6. FLOWABLE FILL MAY BE SUBSTITUTED FOR ALL MATERIALS IN ROAD CROSSING.
7. PAVED AREA INCLUDES 2' BEHIND CURB.

WATER PIPE BEDDING DETAIL

CITY OF BROKEN ARROW	STANDARD DRAWING: STD W 01
	LAST REVISION DATE: 8/01/99
DRAWN BY: ZSS	CHECKED BY: TSR
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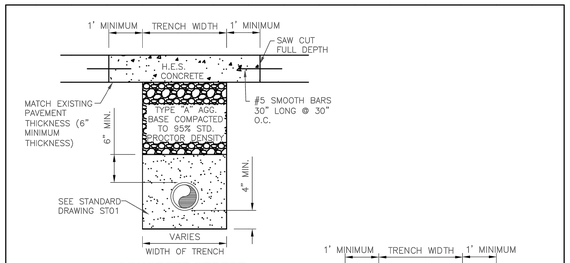

USE THIS DETAIL WHERE IT IS NECESSARY TO CUT THE PRESENT SURFACE FOR REMOVAL OR CONSTRUCTION OF AN UNDERGROUND FACILITY

NOTES:

1. NEW SURFACE TO TRANSITION SMOOTHLY TO EXISTING PAVEMENT.
2. STRENGTH OF PATCH MUST EQUAL OR EXCEED EXISTING STREET STRENGTH.
3. INSTALL 2" MILL TRANSITION WHERE APPLICABLE OR DESIGNATED BY PUBLIC INFRASTRUCTURE INSPECTOR.

STREET PATCH DETAIL

CITY OF BROKEN ARROW	STANDARD DRAWING: STD ST 07
	LAST REVISION DATE: 08/01/1999
DRAWN BY: ZSS	CHECKED BY: TSR
APPROVED: KDS	DATE: 02/01/2024

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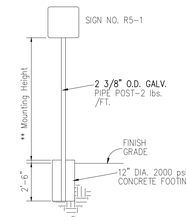

SIGN MOUNTING HEIGHT
N.T.S.

SIGN NOTES:

1. ALL SIGN HARDWARE TO BE GALVANIZED.
2. ALL LETTERING, CONTRAST, AND SIGN COLOR TO BE ADA COMPLIANT. SIGN NO. R5-1
3. FURNISH AND INSTALL SIGN(S) PER DETAIL. LOCATE AS DIRECTED.
4. SIGN MOUNTING HEIGHT: 60" TO BOTTOM OF SIGN - LOCATED IN GRASS OR PLANT BEDS. 80" WHERE LOCATED IN PAVED AREAS.

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ISSUE	07/19/2024
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CHK'D BY:	DRH

D-102

LICENSED PROFESSIONAL ENGINEER — Destini Harrison 34377 — OKLAHOMA

SCALE

4/19/2024 10:00:50 AM

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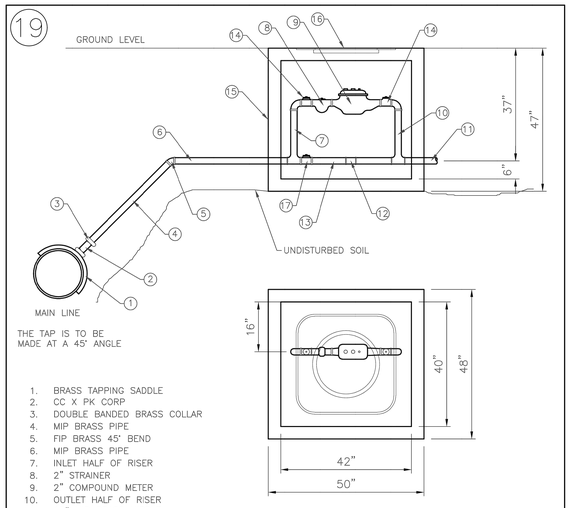

THE TAP IS TO BE MADE AT A 45° ANGLE

1. BRASS TAPPING SADDLE
2. CC X PK CORP
3. DOUBLE BANDED BRASS COLLAR
4. MIP BRASS PIPE
5. FIP BRASS 45° BEND
6. MIP BRASS PIPE
7. INLET HALF OF RISER
8. 2" STRAINER
9. 2" COMPOUND METER
10. OUTLET HALF OF RISER
11. 12" MIP BRASS NIPPLE
12. 1 1/4" SOLDER X SOLDER COLLAR
13. 1 1/4" COPPER TUBING
14. FLANGE X PK BALL VALVE
15. VAULT
16. VAULT RING & LID
17. PK X PK CURB STOP

2" COMPOUND METER SETTING

CITY OF BROKEN ARROW	STANDARD DRAWING: STD W 14
	LAST REVISION DATE: 8/01/99
DRAWN BY: ZSS	CHECKED BY: TSR
APPROVED: KDS	DATE: 02/01/2024

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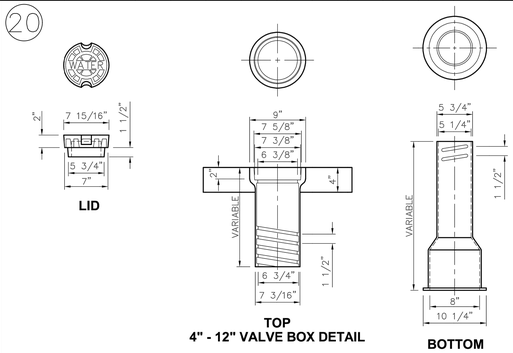

MINIMUM REQUIRED WEIGHTS	
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NOTES:
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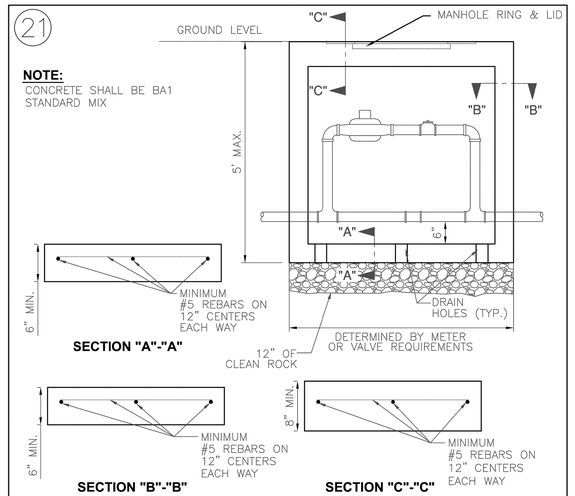

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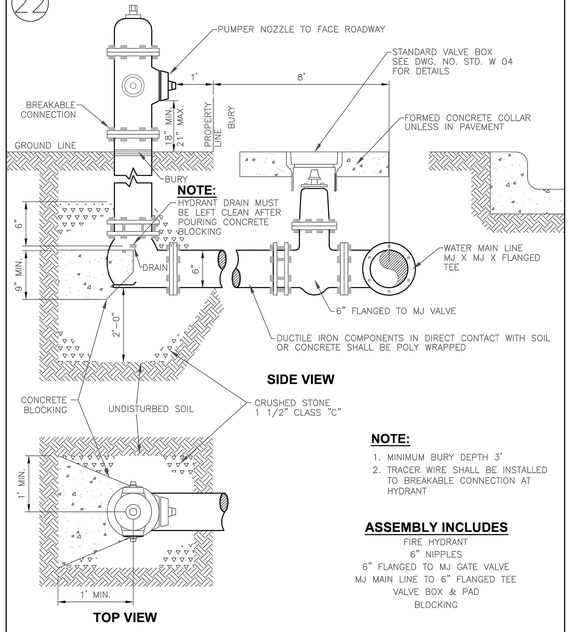
22



NOTE:
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ASSEMBLY INCLUDES
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MJ MAIN LINE TO 6" FLANGED TEE
VALVE BOX & PAD
BLOCKING

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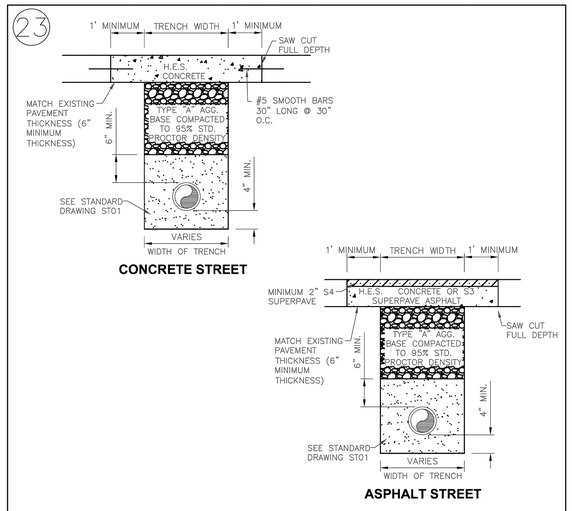
	LAST REVISION DATE: 10/26/21
DRAWN BY: ZSS	CHECKED BY: TSR
APPROVED: KDS	DATE: 02/01/2024

23



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APPROVED: KDS	DATE: 02/01/2024

24

NON-PAVED AREAS			PAVED AREAS		
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EXCAVATED MATERIAL			CRUSHED ROCK		
SELECT FILL			CRUSHED ROCK		
SELECT FILL			3/8" CHIPS		
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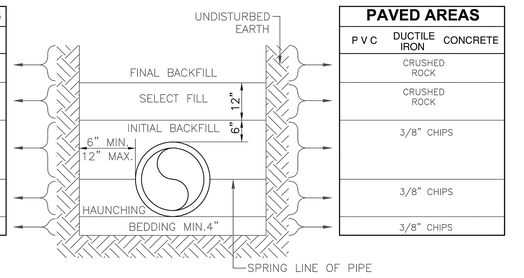
3/8" CHIPS			3/8" CHIPS		



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4. COMPACTION REQUIREMENTS:
   a. NON– PAVED AREAS: 90% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESIONLESS SOILS AND 85% FOR COHESIVE SOILS.
   b. PAVED AREAS: 95% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESIONLESS SOILS.
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6. FLOWABLE FILL MAY BE SUBSTITUTED FOR ALL MATERIALS IN ROAD CROSSING.
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WATER PIPE BEDDING DETAIL

CITY OF BROKEN ARROW	STANDARD DRAWING: STD W 01
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CHK'D BY: DRH

D-103

LICENSED PROFESSIONAL ENGINEER
Destini Harrison 34377
OKLAHOMA

SCALE

4/19/2024 10:00:59 AM

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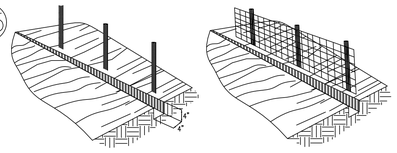
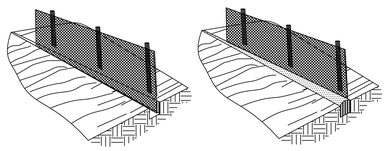


STEP 1
SET POSTS AND EXCAVATE A 4" X 4" TRENCH UP SLOPE ALONG THE LINE OF POSTS.

STEP 2
STAPLE WIRE FENCING TO THE POSTS



STEP 3
ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH

STEP 4
BACKFILL AND COMPACT THE EXCAVATED SOIL

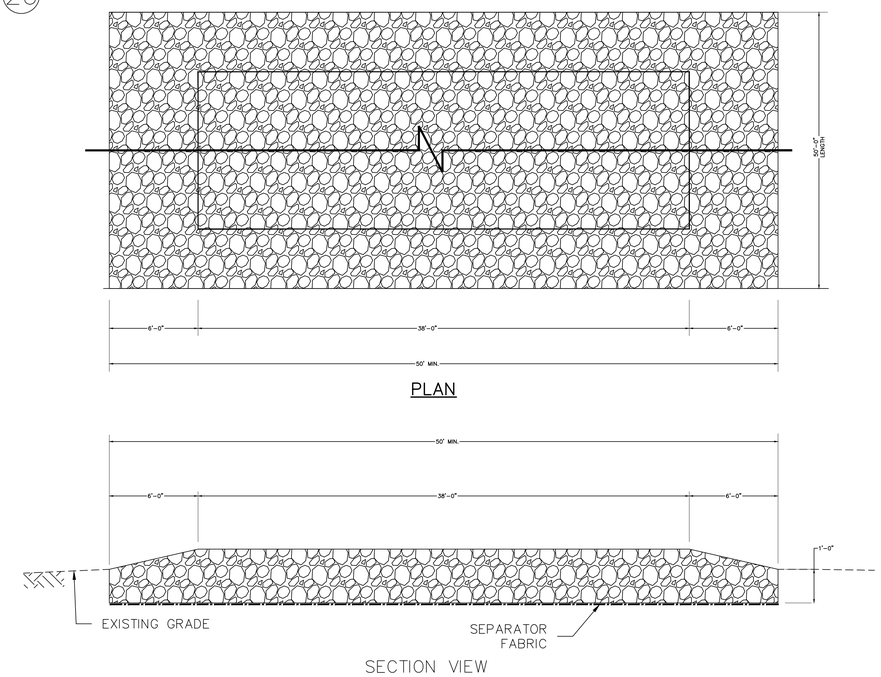
STEP 5
EXTENSION OF FABRIC AND WIRE INTO THE TRENCH

SILT FENCE CONSTRUCTION DETAIL
N.T.S.

STORMWATER POLLUTION PREVENTION PLAN NOTES

1. CONSTRUCT TEMPORARY ROCK CONSTRUCTION ENTRANCE, SILT FENCE, AND ANY ADDITIONAL SEDIMENT CONTROLS NECESSARY TO PREVENT EROSION FROM LEAVING THE SITE.
2. PLANT TEMPORARY VEGETATION ON DISTURBED AREAS WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER LAND DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD OF 14 DAYS OF MORE. THE APPROPRIATE TEMPORARY OR PERMANENT VEGETATIVE PRACTICES SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS.
3. CONSTRUCT BUILDINGS AND PARKING LOTS.
4. FINISH SLOPES AROUND BUILDINGS, ROUGHEN SLOPES, ADD TOPSOIL AND VEGETATE.
5. AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES, VEGETATING THESE AREAS.

26

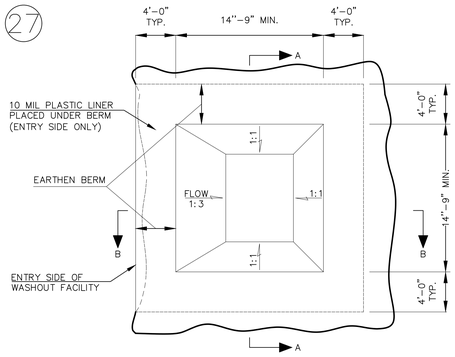


STABILIZED CONSTRUCTION EXIT (TYPE 1)
N.T.S.

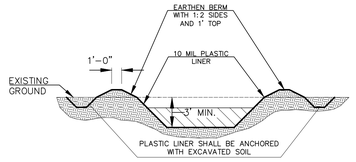
NOTES:

1. STONE SIZE AASHTO DESIGNATION M43, SIZE NO. 1 (2 ½" TO 3 ½"). USE CLEAN STONE.
2. LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 5O FEET.
3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS AND EGRESS.
5. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATER COURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
6. MAINTENANCE - THE ENTRANCE SHALL 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 CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
7. SEPARATOR FABRIC SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO THE STONE FILL.
8. LOCATION OF STABILIZED CONSTRUCTION EXIT TO BE AS APPROVED BY THE ENGINEER.

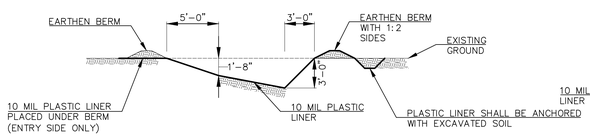
27



PLAN VIEW
"BELOW GRADE" TYPE



SECTION A–A



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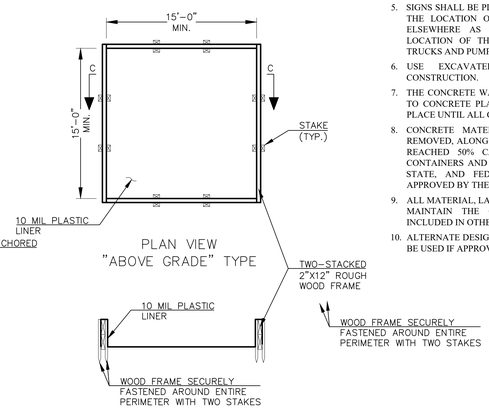

PLAN VIEW
"ABOVE GRADE" TYPE

SECTION C–C

CONCRETE WASHOUT DEVICE
N.T.S.

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 220.04.H(2) OF THE ODOT STANDARD SPECIFIFCATIONS
2. TEMPORARY CONCRETE WASHOUT DEVICES SHOULD BE CONSTRUCTED ABOVE GRADE OR BELOW GRADE AT THE OPTION OF THE CONTRACTOR. WASHOUT DEVICE SHOULD CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
3. PROVIDE A WASHOUT ARE A MINIMUM OF 50 FEET AWAY FROM INLETS, SWALES, DRAINAGE WAYS, AND CHANNELS. IF THE SITE CONFIGURATIONS PROVIDES SUFFICIANT SPACE TO DO SO. IN NO CASE SHALL THE CONCRETE WASHOUT DEVICE BE INSTALLED CLOSER THAN 20 FEET FROM INLETS, SWALES, DRAINAGE WAYS, AND CHANNELS.
4. PLASTIC LINER SHALL CONFORM TO ASTM D-4397, BE A MINIMUM OF 10 MIL. (0.10 INCHES) THICK, AND FREE OF ALL TEARS AND HOLES AND BE IMPERMEABLE.
5. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE LOCATION OF THE CONCRETE WASHOUT DEVICE, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE FACILITY TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
6. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.
7. THE CONCRETE WASHOUT DEVICE SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE, AND SHOULD REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
8. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED, ALONG WITH THE PLASTIC LINER, ONCE THE PIT HAS REACHED 50% CAPACITY. USING SUITABLE WATER TIGHT CONTAINERS AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL, REGULATIONS, OR IN A MANNER APPROVED BY THE RESIDENT ENGINEER.
9. ALL MATERIAL, LABOR, AND SIGNS NEEDED TO CONSTRUCT AND MAINTAIN THE CONCRETE WASHOUT DEVICE SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
10. ALTERNATE DESIGNS OF THE CONCRETE WASHOUT DEVICE MAY BE USED IF APPROVED BY THE ENGINEER.

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Reference Cover Sheet for Consultant Directory

REVISION 2
04.09.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

DETAILS

JOB REED2405001
ISSUE 07/19/2024
DRAWN BY: IGM & ZWW
CHK'D BY: DRH

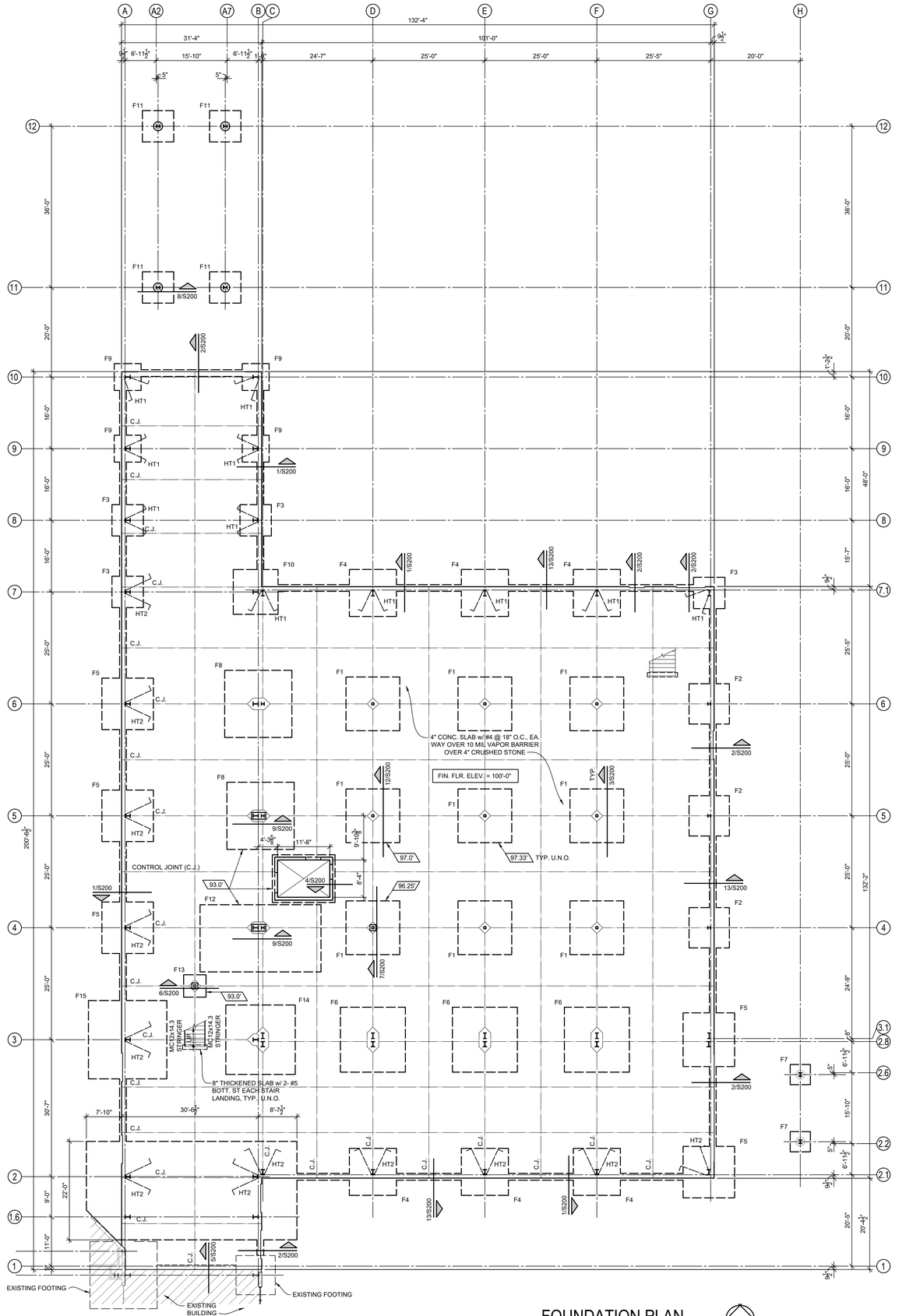
D-104

LICENSED PROFESSIONAL ENGINEER
Destini Harrison
34377
OKLAHOMA

SCALE

4/19/2024 10:00:50 AM

1/16"=1'-0" 0 8" 16" 32"
3/32"=1'-0" 0 4" 8" 16" 32"
1/8"=1'-0" 0 4" 8" 16"
1/4"=1'-0" 0 2" 4" 8"
1/2"=1'-0" 0 1' 2' 4'
3/4"=1'-0" 0 1' 2'
1"=1'-0" 0 6" 1' 2'
1 1/2"=1'-0" 0 3" 6" 1'
3"=1'-0" 0 3" 6"



1 FOUNDATION PLAN
3/32" = 1'-0"

NORTH

HAIRPIN TIE SCHEDULE		
MARK	HT1	HT2
REBAR	#5 x 12'-6"	#7 x 15'-2"
BENDING DIAGRAM	0-10, 5-0, 10-10, 5-0, 10-10	0-10, 6-0, 1'-2, 6-0, 1'-2

LEGEND

97.0' -- INDICATES BOTTOM OF FOOTING ELEVATION

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03.03.2024

EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

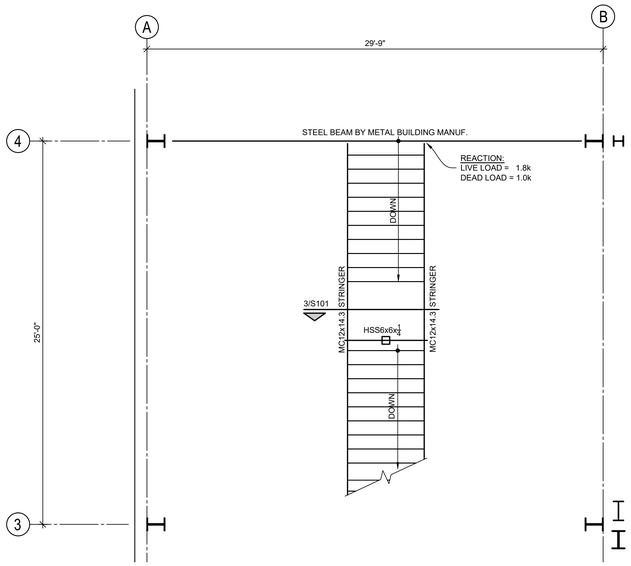
Foundation Plan

JOB 240407
ISSUE 07/16/2024
DRAWN BY: JRC
CHK'D BY: KWS

S100

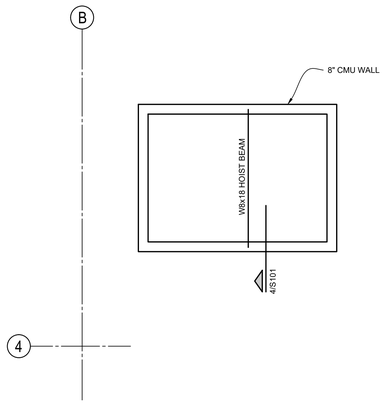
SCALE AS NOTED

PROFESSIONAL STRUCTURAL ENGINEER
KEVIN W. SNOWDEN
18264
OKLAHOMA
3-7-25



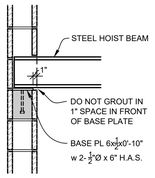
1 STAIR FRAMING PLAN
1/4" = 1'-0"

NORTH

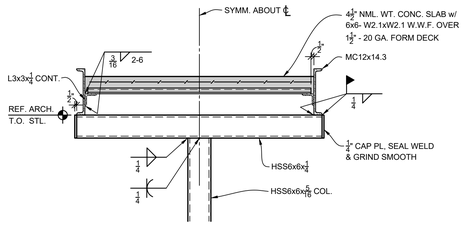


2 ELEVATOR ROOF FRAMING PLAN
1/4" = 1'-0"

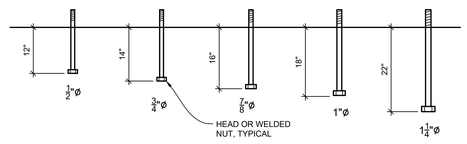
NORTH



4 FRAMING SECTION
3/4" = 1'-0"



3 FRAMING SECTION
3/4" = 1'-0"



NOTE: DIAMETER OF BOLTS TO BE SIZED BY METAL BUILDING MANUFACTURER.

5 ANCHOR BOLT DIAGRAM
NO SCALE

SPECIAL INSPECTIONS

REQUIRED SPECIAL INSPECTIONS AND TESTS FOR SOILS		
TYPE	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION		
TYPE	CONTINUOUS	PERIODIC
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	---	X
2. INSPECT ANCHORS CAST IN CONCRETE.	---	X
3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.		
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	---
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 3A.	---	X
4. VERIFY USE OF REQUIRED DESIGN MIX.	---	X
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---
6. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	---
7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X
8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X

REQUIRED SPECIAL INSPECTIONS OF FABRICATED STEEL		
TYPE	CONTINUOUS	PERIODIC
1. AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING CODE OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	X	---

IN ACCORDANCE WITH CHAPTER 17 OF THE REFERENCE BUILDING CODE, THE OWNER SHALL EMPLOY INSPECTION AGENCIES TO PERFORM SPECIAL INSPECTIONS DURING CONSTRUCTION INCLUDING INSPECTIONS OF SHOP-FABRICATED ITEMS WHEN APPLICABLE. ALL INSPECTION AGENCIES, INCLUDING FABRICATION FACILITIES, WHEN REQUIRED, SHALL BE QUALIFIED AND APPROVED BY THE BUILDING OFFICIAL. REFER TO OTHER DISCIPLINES FOR SPECIAL INSPECTIONS OF NON-STRUCTURAL SYSTEMS.

METAL BUILDING NOTES

1. FOOTING DESIGNS ARE BASED ON ESTIMATED COLUMN LOADS. COLUMN BASES SHALL BE ASSUMED TO BE PINNED UNLESS APPROVED BY THE ENGINEER. FOOTINGS WILL BE REVIEWED AND REVISED IF NECESSARY UPON RECEIPT OF FINAL COLUMN REACTIONS.
2. PRE-ENGINEERED STEEL BUILDING DESIGN AND MATERIAL PROVIDED SHALL INCLUDE ALL BEAMS, COLUMNS, AND OTHER FRAMING MEMBERS REQUIRED TO ASSURE A COMPLETE JOB.
3. PROVIDE SUPPORT AND SUPPLEMENTARY FRAMING AS REQUIRED FOR ALL STRUCTURE MOUNTED EQUIPMENT.
4. DRIFT AND DEFLECTION TO BE WITHIN IBC STANDARDS FOR THE STRUCTURE.
5. BRACING LOCATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE PERMISSIBLE BUT NOT REQUIRED. PROVIDE BRACING AS NEEDED FOR STABILITY.

DESIGN CRITERIA

GOVERNING CODE	2018 INTERNATIONAL BUILDING CODE
BUILDING RISK CATEGORY	CATEGORY III
ROOF LOADS	
LIVE LOAD 20 PSF	
COLLATERAL LOAD 8 PSF	
NOTE: DO NOT REDUCE LIVE LOAD ON FRAMES FOR TRIBUTARY AREA	
SNOW LOADS	
GROUND SNOW LOAD (P_g)	10 PSF
FLAT ROOF SNOW LOAD (P_f)	10 PSF
SNOW EXPOSURE FACTOR (C_e)	1.0
SNOW LOAD IMPORTANCE FACTOR (I_s)	1.10
THERMAL FACTOR (C_t)	1.0
ICE LOADS	
ICE THICKNESS	2 IN.
WIND LOADS	
BASIC ULTIMATE WIND SPEED (V_{ult})	115 MPH
SITE EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT	±0.18
SEISMIC LOADS	
SEISMIC IMPORTANCE FACTOR	1.25
MAPPED SPECTRAL RESPONSE ACCELERATION (S_S)	0.135
MAPPED SPECTRAL RESPONSE ACCELERATION (S_1)	0.073
SEISMIC SITE CLASS	D
DESIGN SPECTRAL RESPONSE ACCELERATION (S_{DS})	0.144
DESIGN SPECTRAL RESPONSE ACCELERATION (S_{D1})	0.177
SEISMIC DESIGN CATEGORY	B
RESPONSE MODIFICATION COEFFICIENT (R)	3.5
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
RAIN LOADS	
60 MIN. DURATION	3.75 IN./HR.
5 MIN. DURATION	10.2 IN./HR.
SPECIAL LOADS	
INTERIOR WALLS & PARTITIONS	5 PSF HORIZONTAL
HANDRAIL LOADS (ANY DIRECTION)	50 PLF / 200# CONCENTRATED
GEOTECHNICAL	
GEOTECHNICAL ENGINEER	AIMRIGHT TESTING
REFERENCE REPORT I.D. OR NUMBER	9831121
REFERENCE REPORT DATE	12/08/2021
ALLOWABLE DESIGN BEARING PRESSURE	900 PSF

GENERAL STRUCTURAL NOTES

FOUNDATIONS

1. REINFORCING STEEL TO MEET A.S.T.M. SPECIFICATION A-615, LATEST REVISION, GR 60.
2. ANCHOR BOLTS TO BE ASTM F1554, GRADE 55. PROVIDE DOUBLE NUTS FOR ALL STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION. PROVIDE MIN. 1 INCH NON-SHRINK GROUT UNDER PLATE AFTER ERECTION. ANCHOR BOLT LENGTHS LISTED ARE EMBEDMENT LENGTHS.
3. PROVIDE #4 BARS @ 18" O.C., EACH WAY FOR ALL CONCRETE SLABS ON GRADE UNLESS OTHERWISE NOTED. PLACE REBAR IN UPPER 1/3 OF CONCRETE SLAB.
4. ALL WALLS SHALL HAVE ADEQUATE TEMPORARY BRACING BEFORE BACKFILL IS PLACED AGAINST WALLS. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED.
5. C.J. INDICATES ½" DEEP SAW CUT CONTROL JOINT OR KEYED CONSTRUCTION JOINT.
6. PROVIDE CORNER BARS FOR ALL CONTINUOUS HORIZONTAL REINFORCING.

CONCRETE

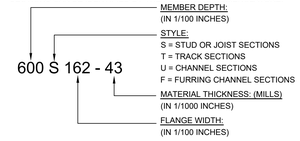
1. CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 LBS./SQ. INCH AT END OF 28 DAYS. ALL EXTERIOR FLATWORK TO BE 3500 LBS./SQ. INCH AND HAVE AN AIR-ENTRAINING ADMIXTURE.

MASONRY

1. ALL CMU SHALL BE 2-CELL BLOCK AND HAVE A SPECIFIED MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI ON NET AREA AT 28 DAYS. THE DESIGN COMPRESSIVE STRENGTH OF THE MASONRY ASSEMBLY (F'm) SHALL BE 1500 PSI.
2. MINIMUM MORTAR COMPRESSIVE STRENGTH - 1800 PSI AT 28 DAYS.
3. CELLS WHICH CONTAIN REINFORCING STEEL SHALL BE FILLED SOLIDLY WITH 3000 PSI CONCRETE, OR GROUT, INCLUDING BOND BEAMS, LINTELS, AND PILASTERS.
4. VERTICAL CELLS TO BE FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS VERTICAL CELL NOT LESS THAN 2"X3" IN PLAN DIMENSIONS.
5. FOUNDATION DOWELS SHALL EXTEND A MINIMUM OF 32 DIAMETER INTO THE FOUNDATION CONCRETE AND 48 DIAMETERS INTO THE MASONRY WALL OR PARTITION. LAPS OR SPLICES OF REINFORCING STEEL IN MASONRY SHALL BE 48 DIAMETERS. THERE SHALL BE A FOUNDATION DOWEL FOR EACH VERTICAL REINFORCING BAR.
6. VERTICAL WALL REINFORCING SHALL EXTEND CONTINUOUSLY FROM THE TOP OF FOUNDATION TO EMBED AT LEAST 6" INTO ROOF DIAPHRAGM BOND BEAM, OR TO TOP OF PARAPET WHEN PARAPET EXISTS.
7. AND ADDITIONAL VERTICAL BAR, WITH FOUNDATION DOWEL, SAME SIZE AND LENGTH AS THE NORMAL REINFORCING BAR, SHALL BE PLACED:
   A. ON EACH SIDE OF CONTROL JOINTS
   B. AT INTERSECTION OF EXTERIOR WALLS
   C. AT INTERSECTION OF INTERIOR SHEAR WALLS W/ EXTERIOR WALLS
8. BOND BEAM REINFORCING STEEL (B.B.R.S.) AND HORIZONTAL JOINT REINFORCING (H.J.R.):
   A. B.B.R.S. AT ROOF AND FLOOR DIAPHRAGM LEVELS IN STRUCTURAL WALLS (LOAD BEARING & SHEAR) WILL BE CONTINUOUS EXCEPT AT ISOLATION JOINTS.
   B. INTERMEDIATE B.B.R.S. IN STRUCTURAL WALL & ALL B.B.R.S. IN NON-STRUCTURAL WALLS WILL TERMINATE ON EACH SIDE OF CONTROL JOINTS & ISOLATION JOINTS.
   C. H.J.R. WILL TERMINATE ON EACH SIDE OF CONTROL JOINTS & ISOLATION JOINTS FOR ALL CMU WALLS.
   D. PROVIDE LADDER OR TRUSS TYPE H.J.R. @ 16" O.C.
9. BARS AROUND PERIMETER OF OPENINGS SHALL EXTEND NOT LESS THAN 40 DIAMETERS OR 24", WHICHEVER IS LARGER, BEYOND CORNER OF OPENING. VERTICAL JAMB BARS WILL BE THE SAME SIZE AND NUMBER AS NORMAL VERTICAL REINFORCING AND EXTEND FULL HEIGHT OF WALL WITH FOUNDATION DOWEL.
10. SUBSTITUTION OF EXPANSION ANCHORS FOR EMBEDDED ANCHORS SHOWN ON DRAWINGS WILL NOT BE PERMITTED.
11. LINTEL REINFORCEMENT SHALL BE SUPPORTED BY WIRE CHAIRS.
12. WELD STEEL JOISTS TO THE STEEL BEAMS, OR TO 6 x 8 x ¼ WELDING PLATES WITH 2- ¾" DIAMETER x 6 INCHES WELDED ANCHORS ON THE BOTTOM OF EACH PLATE, IF STEEL JOISTS BEAR UPON MASONRY WALLS.
13. PROVIDE 2 - #5 BOTTOM IN CONCRETE FILLED TROUGH BLOCK FOR LINTELS OVER OPENINGS UP TO 6'-4". FOR OPENINGS UP TO 8'-0" PROVIDE 2 - #6 BOTTOM IN CONCRETE FILLED TROUGH BLOCK. FOR OPENINGS EQUAL TO OR GREATER THAN 8'-0" PROVIDE 2 - #6 BOTTOM OF 16" DEEP CONCRETE FILLED TROUGH BLOCK. TYPICAL ALL LINTELS NOT SPECIFICALLY COVERED BY DETAIL OR PLAN.
14. PROVIDE BEARING PLATES AND 2- ¾" DIAMETER X 8" WELDED ANCHORS FOR ALL STEEL BEAMS BEARING UPON MASONRY. FILL CELLS BELOW WITH CONCRETE AND PROVIDE 2 - #5 VERTICAL BARS WITH DOWELS FROM FOOTING.
15. PROVIDE CONTROL JOINTS @ 20'-0" O.C. (MAX.) IN EXTERIOR MASONRY WALLS.

LIGHT GAUGE

1. LIGHT GAUGE STEEL MEMBERS ARE TO BE DEPTH AND GAUGE NOTED ON DRAWINGS.
2. YIELD STRESS (FY) FOR 18 AND 20 GAUGE MATERIAL IS TO BE MINIMUM 33,000 PSI. YIELD STRESS FOR 16 GAUGE AND HEAVIER IS TO BE MINIMUM 50,000 PSI.
3. WALL STUDS ARE TO ALIGN WITH FLOOR, ROOF, AND CEILING JOISTS UNLESS NOTED OTHERWISE.
4. TRACK IS TO MATCH GAUGE OF ADJACENT MATERIAL (I.E. STUDS) UNLESS NOTED OTHERWISE. ALL TRACK IS TO HAVE A MINIMUM YIELD STRESS OF 33,000 PSI.
5. PUNCHED WEBS ARE ACCEPTABLE, PER DIETRICH STANDARD; HOWEVER, 10 INCHES MINIMUM OF UNPUNCHED MATERIAL IS REQUIRED AT BOTH ENDS OF ALL MEMBERS. IF PUNCHES OCCUR AT FASTENER LOCATIONS, REINFORCE WITH MATERIAL OF SAME GAUGE AND YIELD STRESS AS PUNCHED MEMBER.
6. STUDS MUST BE SEATED SQUARELY IN WEB OF BOTTOM TRACK, WITH BOTH FLANGES FASTENED TO TRACK FLANGES.
7. PROVIDE 1½", 16 GAUGE COLD-ROLLED "U" CHANNEL HORIZONTAL BRIDGING AT 5'-0" ON CENTER, MAXIMUM FOR WALL STUDS. PROVIDE ONE ROW AT MID-HEIGHT FOR WALLS LESS THAN 10 FEET HIGH. ATTACH BRIDGING TO EACH STUD BY WELDING OR WITH CLIPS AND SCREWS.
8. PROVIDE BRIDGING FOR FLOOR, ROOF, AND CEILING JOISTS AT 8 FEET ON CENTER, MAXIMUM. BRIDGING TO CONSIST OF SOLID BLOCKING IN TWO JOIST SPACES EACH END OF BRIDGING LINE AND IN SINGLE SPACES 10 FEET ON CENTER, MAXIMUM, WITH CONTINUOUS FLAT STEEL STRAPS TOP AND BOTTOM FULL LENGTH. NOTE: TOP FLANGE STRAP MAY BE OMITTED, UNLESS CONSTRUCTION LOADS REQUIRE BRIDGING PRIOR TO DECK INSTALLATION.
9. ALL MEMBERS ARE TO BE CONTINUOUS BETWEEN SUPPORTS. CONTINUOUS WALL TRACK MUST BE ANCHORED TO A COMMON STRUCTURAL MEMBER, AT SPLICE LOCATIONS, OR MUST BE SPLICED BY BUTT WELDING OR LAPPING AND FASTENING.
10. TYPICAL WALL STUDS TO BE AS FOLLOWS, EXCEPT WHERE NOTED OTHERWISE
    EXTERIOR: 600S162-43 @ 16" O.C.
11. PROVIDE MULTIPLE STUDS AT BEARING POINTS FOR MULTIPLE MEMBER JOISTS OR BEAMS, I.E. TRIPLE STUD AT TRIPLE MEMBER BEAM. MULTIPLE STUDS TO CARRY DOWN TO FOUNDATION. PROVIDE OTHER ADDITIONAL STUDS WHERE NOTED ON DETAILS OR PLANS.
12. SECTIONS CAN BE IDENTIFIED BY THE FOLLOWING NOMENCLATURE:



MISCELLANEOUS

1. CONTRACTOR TO VERIFY ALL EXISTING BUILDING DIMENSIONS.
2. SEE MECHANICAL DRAWINGS FOR EXACT DIMENSIONS OF MECHANICAL OPENINGS AND EQUIPMENT.
3. PROVIDE CONTROL JOINTS @ 30'-0" O.C. (MAX.) IN INTERIOR GYPSUM BOARD WALLS.

FOOTING SCHEDULE

MARK	F1	F2	F3	F4	F5	F6	F7	F8
FOOTING	12'-0"x12'-0"x2'-0" DP. w/ 15- #5 x 11'-6" EA. WAY, BOTT.	9'-0"x9'-0"x2'-0" DP. w/ 12- #5 x 8'-6" EA. WAY, BOTT.	7'-0"x7'-0"x2'-0" DP. w/ 9- #5 x 6'-6" EA. WAY, BOTT.	10'-6"x10'-6"x2'-0" DP. w/ 13- #5 x 10'-0" EA. WAY, BOTT.	11'-6"x11'-6"x2'-0" DP. w/ 15- #5 x 11'-0" EA. WAY, BOTT.	14'-6"x14'-6"x2'-0" DP. w/ 18- #5 x 14'-0" EA. WAY, BOTT.	4'-6"x4'-6"x2'-0" DP. w/ 6- #5 x 4'-0" EA. WAY, BOTT.	15'-0"x15'-0"x2'-0" DP. w/ 16- #6 x 14'-6" EA. WAY, BOTT.
MARK	F9	F10	F11	F12	F13	F14	F15	
FOOTING	6'-0"x6'-0"x2'-0" DP. w/ 8- #5 x 5'-6" EA. WAY, BOTT.	10'-0"10'-0"x2'-0" DP. w/ 13- #5 x 9'-6" EA. WAY, BOTT.	7'-0"x7'-0"x2'-0" DP. w/ 9- #5 x 6'-6" EA. WAY, BOTT.	27'-0"x15'-0"x2'-0" DP. w/ 28- #6 x 14'-6" & 16- #6 x 26'-6", BOTT.	5'-0"x5'-0"x2'-0" DP. w/ 7- #5 x 4'-6" EA. WAY, BOTT.	15'-6"x15'-6"x2'-0" DP. w/ 16- #6 x 15'-0" EA. WAY, BOTT.	17'-6"x17'-6"x2'-0" DP. w/ 22- #5 x 17'-0" EA. WAY, BOTT.	

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REVISIONS

Foundation Plan

JOB 240407
ISSUE 07/16/2024
DRAWN BY: JRC
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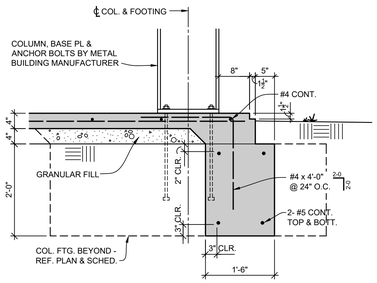
S101

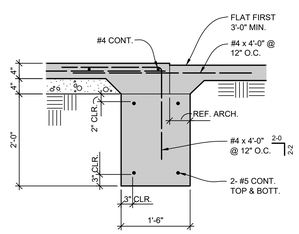
SCALE AS NOTED

PROFESSIONAL STRUCTURAL ENGINEER
KEVIN W. SNOWDEN
18264
OKLAHOMA
3-7-25

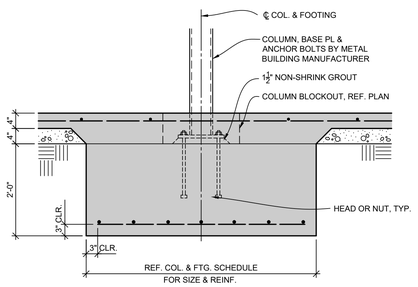
1/16"=1'-0" 0 8' 16' 32'
3/32"=1'-0" 0 4' 8' 16' 32'
1/8"=1'-0" 0 4' 8' 16'
1/4"=1'-0" 0 2' 4' 8'
1/2"=1'-0" 0 1' 2' 4'
3/4"=1'-0" 0 1' 2'
1"=1'-0" 0 6" 1' 2'
1 1/2"=1'-0" 0 3" 6" 1'
3"=1'-0" 0 3" 6"



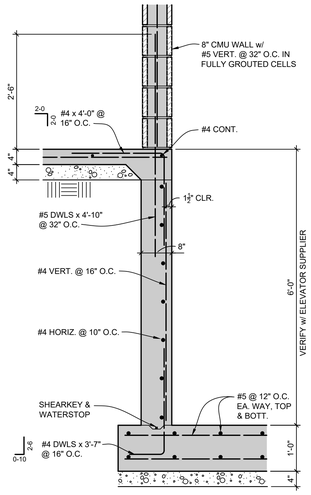
1 FOUNDATION SECTION
3/4" = 1'-0"



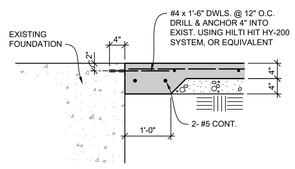
2 FOUNDATION SECTION
3/4" = 1'-0"



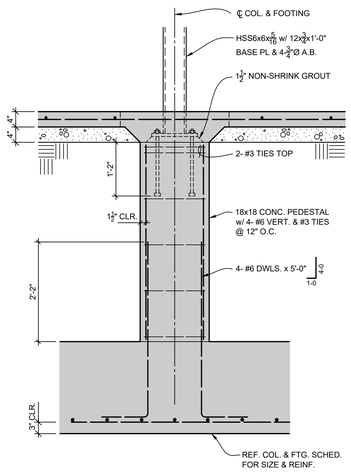
3 FOUNDATION SECTION
3/4" = 1'-0"



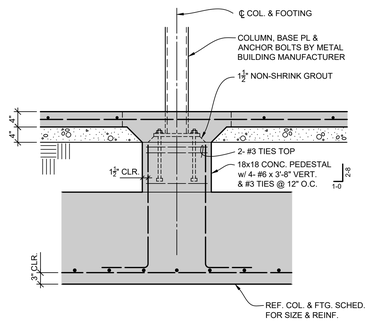
4 FOUNDATION SECTION
3/4" = 1'-0"



5 FOUNDATION SECTION
3/4" = 1'-0"

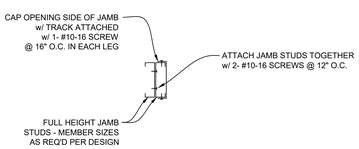


6 FOUNDATION SECTION
3/4" = 1'-0"

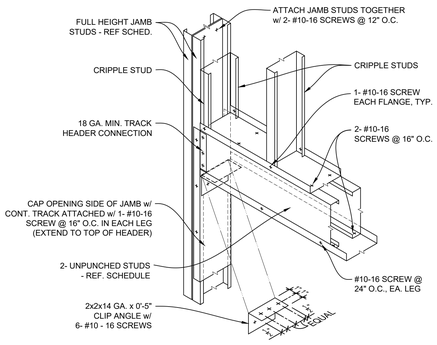


7 FOUNDATION SECTION
3/4" = 1'-0"

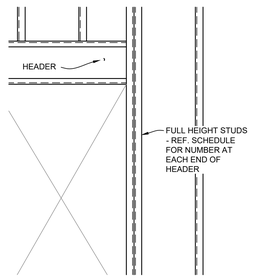
STUD SCHEDULE			
OPENING WIDTH	FULL HEIGHT STUDS	HEADER STUDS	HEADER TRACKS
LESS THAN 4'-0"	1- 600S162-43	2- 600S162-43	600T125-43
4'-1" TO 6'-0"	2- 600S162-43	2- 600S162-43	600T125-43
6'-1" TO 12'-0"	2- 600S162-43	2- 600S162-43	600T125-54



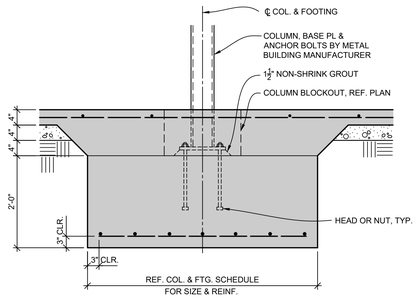
PLAN - JAMB



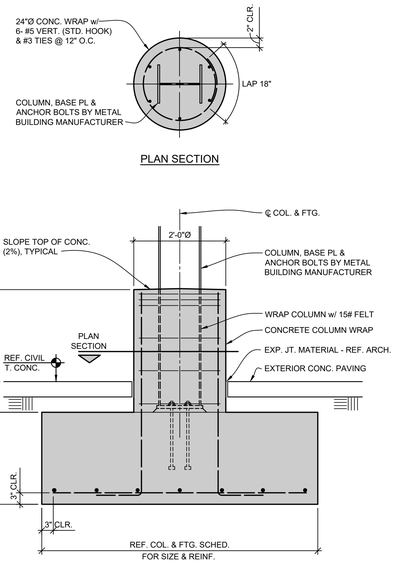
NON-BEARING WALL
10 BOXED HEADER DETAIL
3/4" = 1'-0"



NON-BEARING WALL
11 TYPICAL OPENING DETAIL
3/4" = 1'-0"



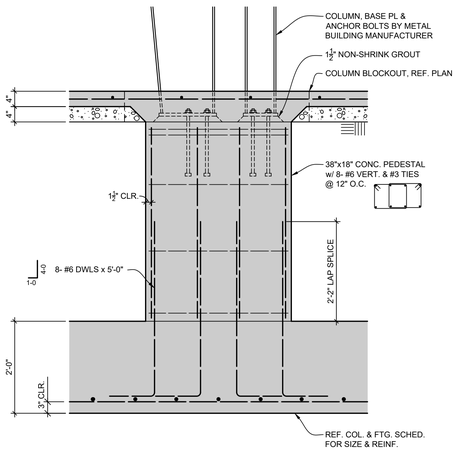
12 FOUNDATION SECTION
3/4" = 1'-0"



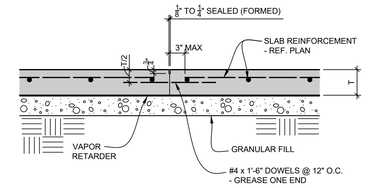
PLAN SECTION

8 FOUNDATION SECTION
3/4" = 1'-0"

13 FOUNDATION SECTION
3/4" = 1'-0"



9 FOUNDATION SECTION
3/4" = 1'-0"



14 TYPICAL CONSTRUCTION JOINT
1" = 1'-0"

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CONSULTANT:

Reference Cover Sheet for Consultant Directory

100% CONSTRUCTION DOC'S
03.03.2024

EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

General Notes, Special Inspections and Sections

JOB 240407
ISSUE 07/16/2024
DRAWN BY: JRC
CHK'D BY: KWS

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SCALE AS NOTED

PROFESSIONAL STRUCTURAL ENGINEER — KEVIN W. SNOWDEN — 18264 — OKLAHOMA — 3-7-25