# **GENERAL NOTES**

- 1. SURVEY PROVIDED BY CHASE JONES AND ASSOCIATE, DATED {DATE}. HORIZONTAL AND VERTICAL CONTROL ARE RELATIVE TO AN UNKNOWN LOCATION. COORDINATE WITH SURVEY OR RECORD TO ESTABLISH SITE CONTROL.
- 2. CONSTRUCTION LAYOUT (ALL ACTUAL LINES AND GRADES) SHALL BE STAKED BY A PROFESSIONAL SURVEYOR, REGISTERED IN THE STATE OF OREGON, BASED ON COORDINATES, DIMENSIONS, BEARINGS, AND ELEVATIONS, AS SHOWN, ON THE PLANS.
- 3. PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE HORIZONTAL POSITION PRIOR TO BEGINNING CONSTRUCTION LAYOUT.
- 4. PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE VERTICAL POSITION BASED ON THE BENCHMARK STATED HEREON, PRIOR TO BEGINNING CONSTRUCTION LAYOUT.
- 5. WHEN DIMENSIONS AND COORDINATE LOCATIONS ARE REPRESENTED DIMENSIONS SHALL HOLD OVER COORDINATE LOCATION. NOTIFY THE CIVIL ENGINEER OF RECORD IMMEDIATELY UPON DISCOVERY.
- 6. BUILDING SETBACK DIMENSIONS FROM PROPERTY LINES SHALL HOLD OVER ALL OTHER CALLOUTS. PROPERTY LINES AND ASSOCIATED BUILDING SETBACKS SHALL BE VERIFIED PRIOR TO CONSTRUCTION LAYOUT.
- 7. CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING MONUMENTATION DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT OF ANY MONUMENTS DAMAGED OR REMOVED DURING CONSTRUCTION. NEW MONUMENTS SHALL BE REESTABLISHED BY A LICENSED SURVEYOR.
- 8. SOME SITE DEMOLITION AND UTILITY RELOCATION HAS BEEN PERFORMED. SURVEY MAY NOT BE COMPLETE OR ACCURATE. CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
- 9. CONTRACTOR TO REFERENCE GEOTECHNICAL ENGINEERING REPORT PREPARED BY COLUMBIA WEST DATED MARCH 29, 2024 FOR THE SITE SOILS RECOMMENDATIONS.
- 10. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS, THE PROJECT SPECIFICATIONS AND THE APPLICABLE REQUIREMENTS OF THE {SELECT ONLY THAT APPLY} {2008 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE 2008 OREGON PLUMBING SPECIALTY CODE AND REQUIREMENTS OF THE CITY OF {CITY}}.
- 11. THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES AND REGULATIONS. ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES FOR THE EXECUTION AND COMPLETION OF WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
- 12. ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987). EXCAVATORS MUST NOTIFY ALL PERTINENT COMPANIES OR AGENCIES WITH UNDERGROUND UTILITIES IN THE PROJECT AREA AT LEAST 48 BUSINESS-DAY HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS PRIOR TO COMMENCING AN EXCAVATION, SO UTILITIES MAY BE ACCURATELY LOCATED.
- 13. THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. CONTRACTOR SHALL VERIFY ELEVATIONS, PIPE SIZE, AND MATERIAL TYPES OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WITH CONSTRUCTION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF FROELICH ENGINEERS, 72 HOURS PRIOR TO START OF CONSTRUCTION TO PREVENT GRADE AND ALIGNMENT CONFLICTS.
- 14. THE ENGINEER OR OWNER IS NOT RESPONSIBLE FOR THE SAFETY OF THE CONTRACTOR OR HIS CREW. ALL O.S.H.A. REGULATIONS SHALL BE STRICTLY ADHERED TO IN THE PERFORMANCE OF THE WORK.
- 15. TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE IMPLEMENTED. THE CONTRACTOR SHALL ADHERE TO MULTNOMAH COUNTY STANDARDS FOR MINIMUM EROSION CONTROL MEASURES. THE ESC FACILITIES SHOWN IN THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ROADWAYS, KEEPING THEM CLEAN AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS, AND PROVIDING DUST CONTROL AS REQUIRED.
- 17. TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO ODOT FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH THE OWNER.

# **MATERIAL NOTES**

- I. GENERAL: MATERIALS SHALL BE NEW. THE USE OF MANUFACTURER'S NAMES, MODELS, AND NUMBERS IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, AND USEFULNESS. PROPOSED SUBSTITUTIONS WILL REQUIRE WRITTEN APPROVAL FROM ENGINEER PRIOR TO INSTALLATION.
- 2. STORM AND SANITARY SEWER PIPING SHALL BE PVC PIPE OR HIGH DENSITY POLYETHYLENE (HDPE) PIPE; SHOWN BELOW OR AS INDICATED IN THE PLANS.

# 2.1. PVC SEWER PIPE NPS 4 TO NPS 15:

- 2.1.1. PIPE: ASTM D 3034, SDR 35, PVC TYPE PSM SEWER PIPE WITH BELL-AND-SPIGOT ENDS FOR GASKETED JOINTS.
- 2.1.2. FITTINGS: ASTM D 3034, PVC WITH BELL ENDS.
- 2.1.3. GASKETS: ASTM F 477, ELASTOMERIC SEALS.
- 2.2. PE PIPE AND FITTINGS
- 2.2.1. CORRUGATED PE DRAINAGE PIPE AND FITTINGS NPS 3 TO NPS 10: AASHTO M 252M, TYPE S, WITH SMOOTH WATERWAY FOR COUPLING JOINTS.
- 2.2.1.1. SOILTIGHT COUPLINGS: AASHTO M 252M, CORRUGATED, MATCHING TUBE AND FITTINGS
- 2.2.2. CORRUGATED PE PIPE AND FITTINGS NPS 12 TO NPS 60: AASHTO M 294M, TYPE S, WITH SMOOTH WATERWAY FOR COUPLING JOINTS.
- 2.2.2.1. SOILTIGHT COUPLINGS: AASHTO M 294M, CORRUGATED, MATCHING PIPE AND FITTINGS.
- 3. CONCRETE FOR CURBS, SIDEWALK AND DRIVEWAYS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3.300 PSI AT 28 DAYS, CONSTRUCT PER MULTNOMAH COUNTY SPECIFICATIONS.
- 3.1. CONCRETE AGGREGATE SHALL CONFORM TO ASTM C33 REQUIREMENTS
- 4. CONCRETE MANHOLES AND UTILITY VAULTS: HANSON OR APPROVED EQUAL. INSTALL PER MANUFACTURER RECOMMENDATIONS.
- 5. AREA DRAIN/SEDIMENT BASINS: PER PLANS
- 6. SUBMITTAL: CONTRACTOR SHALL PROVIDE PRODUCT DATA FOR EACH PRODUCT:
- 6.1. AGGREGATE6.2. PAVEMENT MATERIAL AND MIX DESIGN (ASPHALT, CONCRETE, PAVERS...)
- 6.3. STORMWATER AND SANITARY SEWER STRUCTURES (AREA DRAINS, CLEANOUTS, LIFT STATION)
- 6.4. PIPES AND FITTINGS

# **CONSTRUCTION NOTES**

## **GENERAL**

- SUBGRADE AND TRENCH BACKFILL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER IS NOT PERMITTED.
- 2. SPECIAL INSPECTION REQUIRED FOR ALL COMPACTION TESTING.

# DEMOLITION

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND DISPOSAL OF EXISTING AC, CURBS, SIDEWALKS AND OTHER SITE ELEMENTS WITHIN THE SITE AREA IDENTIFIED IN THE PLANS. DISPOSE OF DEMOLISHED ITEMS OFF-SITE IN A LEGAL MANNER.
- 2. EXCEPT FOR MATERIALS INDICATED TO BE STOCKPILED OR TO REMAIN ON OWNER'S PROPERTY, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY, REMOVED FROM THE SITE, AND DISPOSED OF PROPERLY.
- 3. ITEMS INDICATED TO BE SALVAGED SHALL BE CAREFULLY REMOVED AND DELIVERED STORED AT THE PROJECT SITE AS DIRECTED BY THE OWNER.
- 4. ALL LANDSCAPING, PAVEMENT, CURBS AND SIDEWALKS, BEYOND THE IDENTIFIED SITE AREA, DAMAGED DURING THE CONSTRUCTION SHALL BE REPLACED TO THEIR ORIGINAL CONDITION OR BETTER.
- 5. CONCRETE SIDEWALKS SHOWN FOR DEMOLITION SHALL BE REMOVED TO THE NEAREST EXISTING CONSTRUCTION JOINT.
- 6. SAWCUT STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING AND NEW PAVEMENT.

# GRADING

- 1. ALL SURFACES SHALL HAVE MINIMUM 1.5% SLOPE UNLESS OTHERWISE NOTED ON PLANS. ALL SURFACES SHALL MEET EXISTING GRADES SMOOTHLY AND EVENLY AND MAINTAIN CONSTANT SLOPES UNLESS OTHERWISE NOTES ON PLANS.
- 2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EXISTING SITE AND DRAINAGE PATTERNS AND PROTECTION OF EXISTING ENGINEERED DRAINAGE FACILITIES.
- 3. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS ADJACENT TO EXISTING TREES IN ORDER TO MINIMIZE DISTURBANCE TO TREE ROOTS. CONTRACT SHALL INSTALL TREE PROTECTION FENCING AS INDICATED ON PLANS OR DRIP-LINE OF EXISTING TREES. NO PARKING VEHICLES UNDER TREES.

## **UTILITIES**

- 1. ADJUST ALL INCIDENTAL STRUCTURES, MANHOLES, VALVE BOXES, CATCH BASINS, FRAMES AND COVERS, ETC. TO FINISHED GRADE.
- 2. CONTRACTOR SHALL ADJUST ALL EXISTING AND/OR NEW FLEXIBLE UTILITIES (WATER, TV, TELEPHONE, ELEC., ETC.) TO CLEAR ANY EXISTING OR NEW GRAVITY DRAIN UTILITIES (STORM DRAIN, SANITARY SEWER, ETC.) IF CONFLICT OCCURS.
- 3. CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES FOR THE INSTALLATION OF OR ADJUSTMENT TO GAS, ELECTRICAL, POWER AND TELEPHONE SERVICE.
- 4. BEFORE BACKFILLING ANY SUBGRADE UTILITY IMPROVEMENTS CONTRACTOR SHALL SURVEY AND RECORD MEASUREMENTS OF EXACT LOCATION AND DEPTH AND SUBMIT TO ENGINEER AND OWNER.

# STORM AND SANITARY

- 1. CONNECTIONS TO EXISTING STORM AND SANITARY SEWERS SHALL CONFORM TO THE 2018 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 00490, "WORK ON EXISTING SEWERS AND STRUCTURES".
- BEGIN LAYING STORM DRAIN AND SANITARY SEWER PIPE AT THE LOW POINT OF THE SYSTEM, TRUE TO GRADE AND ALIGNMENT INDICATED WITH UNBROKEN CONTINUITY OF INVERT. THE CONTRACTOR SHALL ESTABLISH LINE AND GRADE FOR THE STORM AND SANITARY SEWER PIPE USING A LASER.
- 3. ALL ROOF DRAIN AND CATCH BASIN LEADERS SHALL HAVE A MINIMUM SLOPE OF 2 PERCENT UNLESS NOTED OTHERWISE IN THE PLANS.

# EARTHWORK

- 1. CONTRACTOR SHALL PREVENT SEDIMENTS AND SEDIMENT LADEN WATER FROM ENTERING THE STORM DRAINAGE SYSTEM.
- 2. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER WILL NOT BE PERMITTED.
- 3. TRENCH BACKFILL: SHALL MEET ODOT 3/4"-0 CRUSHED ROCK AS INDICATED IN THE PROJECT SOILS REPORT.
- 4. BASE COURSE: SHALL MEET ODOT 3/4"-0 CRUSHED ROCK.
- 5. DRAINAGE ROCK: SHALL BE 3/4" TO 2-1/2" WASHED DRAIN ROCK.
- 6. COMPACTION AND LIFTS: REFERENCE THE PROJECT SOILS REPORT.
- 7. NONWOVER GEOTEXTILE MIRAFI 140N, OR APPROVED EQUIVALENT

# SHEET INDEX

Sheet Number	Sheet Title
C1.00	GENERAL NOTES
C1.01	EXISTING CONDITIONS
C1.02	DEMOLITION PLAN
C2.00	SITE PLAN
C3.00	GRADING PLAN
C4.00	UTILITY PLAN
C5.00	DETAILS
C6.00	EROSION CONTROL PLAN AND DETAILS

# SEPARATION STATEMENT

ASPHALT CONCRETE

ALL WATER MAIN CROSSINGS SHALL CONFORM TO THE OREGON STATE HEALTH DEPARTMENT, CHAPTER 333. WATER MAINS SHALL CROSS OVER SANITARY SEWERS WITH A 18" MINIMUM CLEARANCE BETWEEN OUTSIDE DIAMETERS OF PIPE WITH ALL PIPE JOINTS EQUIDISTANT FROM CROSSING. HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWERS IN PARALLEL INSTALLATIONS SHALL BE 10'. MAINTAIN 12" MINIMUM VERTICAL DISTANCE FOR ALL OTHER UTILITY CROSSINGS AND 12" HORIZONTAL PARALLEL DISTANCE. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN THE MINIMUM 10' HORIZONTAL SEPARATION, THE WATER MAIN SHALL BE LAID ON A SEPARATE SHELF IN THE TRENCH 18" INCHES ABOVE THE SEWER.

OVH/OH

OVERHEAD

# **ABBREVIATIONS**

AD	AREA DRAIN	P/L	PROPERTY LINE
	APPROXIMATE	PC	POINT OF CURVATURE
В	BOLLARD	PCC	POINT OF COMPOUND CURVATUR
BLDG	BUILDING	PCR	POINT OF CURB RETURN
BOW	BACK OF WALK	PED	PEDESTRIAN
BS	BOTTOM OF SWALE	PIV	POST INDICATOR VALVE
50	BOTTOM OF STAIR	PM	PARKING METER
BW	BOTTOM OF WALL	POC	POINT ON CURVE
CB	CATCH BASIN	PP	POWER POLE
CL	CENTERLINE	PRC	POINT OF REVERSE CURVATURE
CMP	CORRUGATED METAL PIPE	PT	POINT OF TANGENT
CMU	CONCRETE MASONRY UNIT	P.U.E	PUBLIC UTILITY EASEMENT
CO	CLEANOUT	PVC	POLYVINYL CHLORIDE
CONC.	CONCRETE	PVMT	PAVEMENT
COTG	CLEANOUT TO GRADE	PVT	PRIVATE
CP	CONTROL POINT	R	RIM
Δ	DELTA	RD	ROOF DRAIN
D/W	DRIVEWAY	R.O.W	RIGHT-OF-WAY
DIA.,Ø	DIAMETER	S	SLOPE (FT/FT)
DIP.	DUCTILE IRON PIPE	SD	STORM DRAIN
E.	EASTING	SDMH	STORM DRAIN MANHOLE
		SHT	SHEET
EXIST./EX FDC	FIRE DEPARTMENT CONNECTION		SANITARY SEWER
FF	FINISH FLOOR ELEVATION	SSMH	SANITARY SEWER MANHOLE
FG	FINISH GRADE	ST	STREET
FH	FIRE HYDRANT	STA	STATION
FL	FLOWLINE	STD	STANDARD
FND	FOUNDATION	S/W	SIDEWALK
G	GUTTER	TC	TOP OF CURB
GB	GRADE BREAK	TD	TRENCH DRAIN
GL	GAS LINE	TG	TOP OF GROUND
GV	GATE VALVE	TP	TOP OF PAVEMENT
Н	HEIGHT	TRANS.	TRANSFORMER
HCP	HANDICAP PARKING SPACE	TS	TOP OF STAIR
HP	HIGH POINT	TW	TOP OF WALL
ID	INSIDE DIAMETER	• • • •	TOP OF WALK
IE	INVERT ELEVATION	TYP	TYPICAL
INV	INVERT	UG	UNDERGROUND
IRR.	IRRIGATION	UGE	UNDERGROUND ELECTRIC
LP	LIGHT POLE	W	WATER
MH	MANHOLE	W/	WITH
MIN	MINIMUM	WCR	WHEEL CHAIR RAMP
N	NORTHING	WM	WATER METER
O.D	OUTSIDE DIAMETER	WV	WATER VALVE
OF.	OUTFALL	•••	
<u> </u>	COTTALL		

# VEGETATED STORMWATER FACILITY NOTE

- 1. SUCCESSFUL CONSTRUCTION OF THE VEGETATED STORMWATER FACILITY DEPEND ON PROPER CONSTRUCTION SEQUENCING, MATERIALS, INSTALLATION, PROTECTION OF SUBGRADE AND EROSION CONTROL.
- CONTRACTOR SHALL SETUP A PRE-CONSTRUCTION MEETING WITH CIVIL ENGINEER TO SPECIFICALLY DISCUSS THESE ITEMS. CONTACT \_\_\_\_\_\_ WITH FROELICH ENGINEERS 503-624-7005.

# NOTICE TO EXCAVATORS:

ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.

(NOTE: THE TELEPHONE NUMBER FOR THE

(NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987).

POTENTIAL UNDERGROUND FACILITY OWNERS

Dig | Safely.

Call the Oregon One-Call Center 1-800-332-2344

FROELICH
ENGINEERS
CIVIL STRUCTURAL
Portland, OR. | Bend, OR. | Denver, CO.
(503) 624-7005

PRELIMITARY CONSTRUCTION

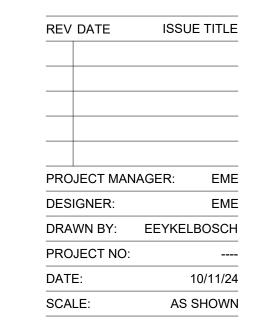
PROVEMENTS

LAND USE

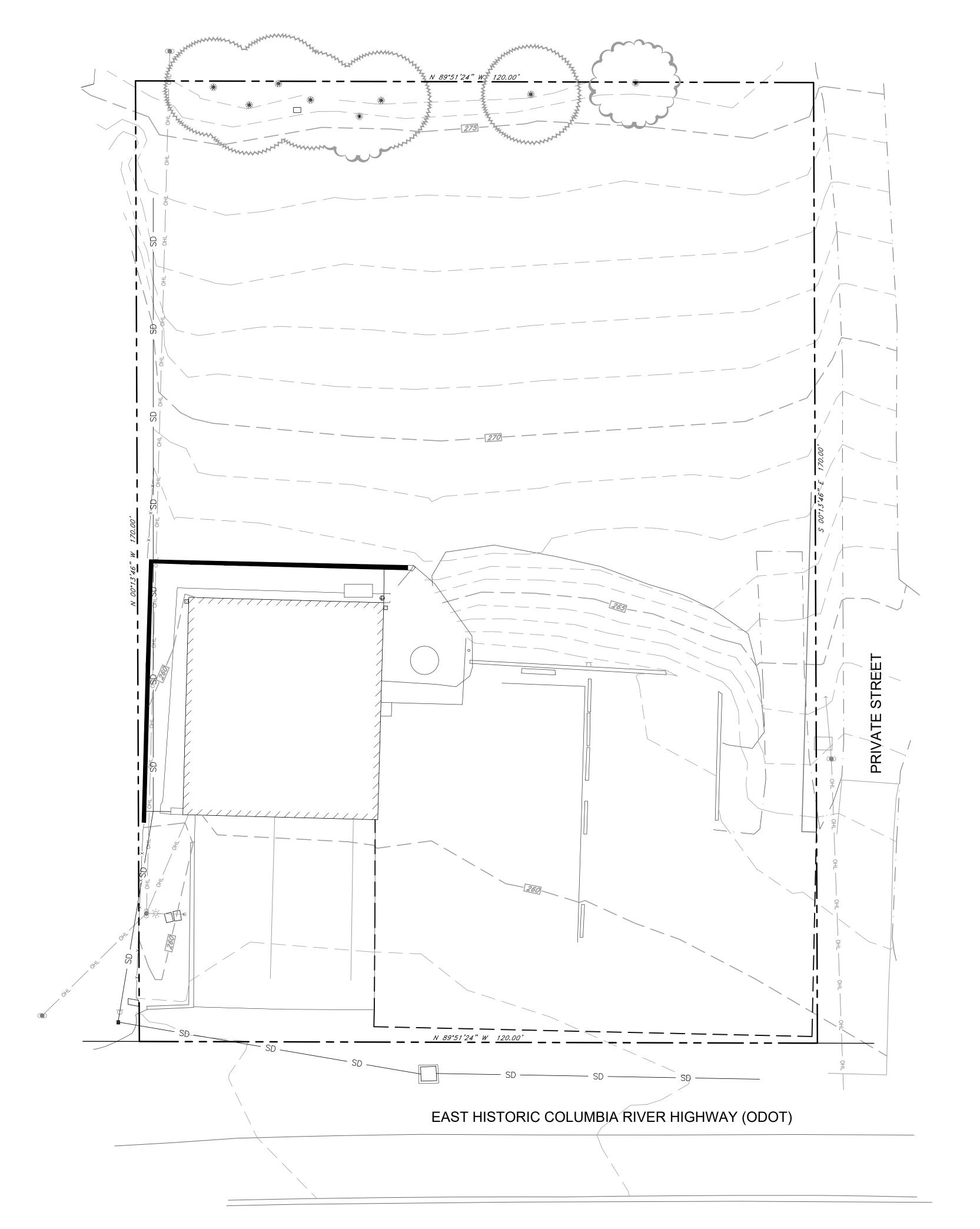
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DESIGNER: EME
DRAWN BY: EEYKELBOSCH
PROJECT NO: ---DATE: 10/11/24
SCALE: AS SHOWN

SHEET TITLE:
GENERAL
NOTES

SHEET NUMBER:

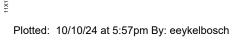


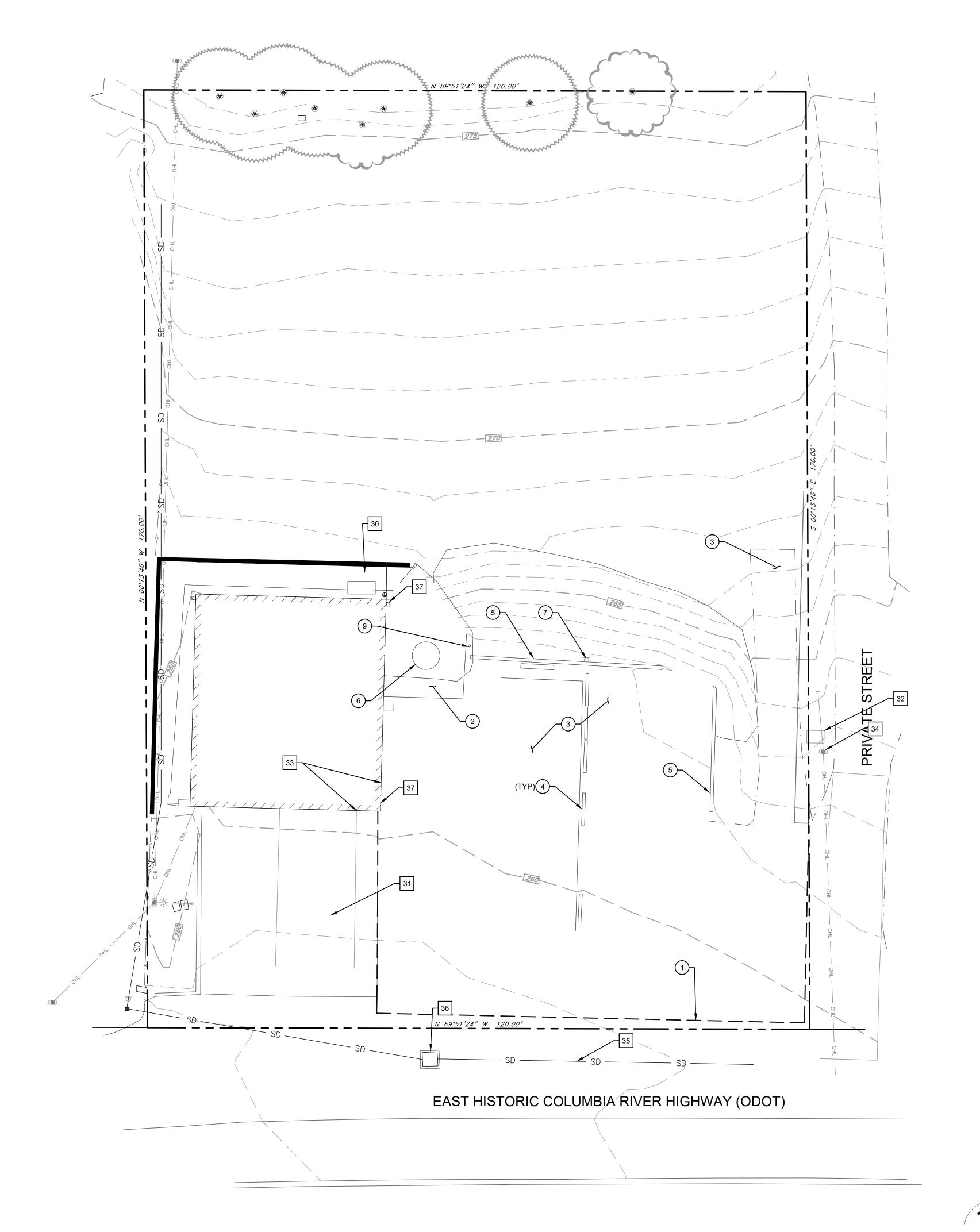
SHEET TITLE: **EXISTING** CONDITIONS











Plotted: 10/10/24 at 5:57pm By: eeykelbosch

# SHEET NOTES

- 1. CONTRACTOR MAY STAGE WITHIN LIMITS OF DEMOLITION.
- 2. REMOVE ALL SITE COMPONENTS AND RECYCLE COMPONENTS AS REQUIRED IN THE SPECIFICATIONS.
- 3. GENERAL DEMOLITION PERMIT SHALL BE SECURED BY THE CONTRACTOR.
- 4. ALL TRADE LICENSES AND PERMITS NECESSARY FOR THE PROCUREMENT AND COMPLETION OF THE WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING DEMOLITION.
- 5. THE CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING RIGHT-OF-WAY SURVEY MONUMENTATION DURING DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT BY A LICENSED SURVEYOR OF ANY DAMAGED OR REMOVED MONUMENTS.
- 6. PROTECT ALL ITEMS ON ADJACENT PROPERTIES AND IN THE RIGHT OF WAY INCLUDING BUT NOT LIMITED TO SIGNAL EQUIPMENT, PARKING METERS, SIDEWALKS, STREET TREES, STREET LIGHTS, CURBS, PAVEMENT AND SIGNS. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DAMAGED ITEMS TO ORIGINAL CONDITION.
- 7. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, AND OTHER FACILITIES IMMEDIATELY ADJACENT TO EXCAVATIONS FROM DAMAGES CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS.
- 8. SAWCUT STRAIGHT LINES IN SIDEWALK, AS NECESSARY.
- 9. CONTRACTOR IS RESPONSIBLE TO CONTROL DUST AND MUD DURING THE DEMOLITION PERIOD, AND DURING TRANSPORTATION OF DEMOLITION DEBRIS. ALL STREET SURFACES OUTSIDE THE CONSTRUCTION ZONE MUST BE KEPT CLEAN.
- ALL EXPOSED PORTIONS OF UNDERGROUND UTILITIES TO BE ABANDONED SHALL BE PLUGGED PER DETAIL X/CXXX.

# **3 DEMOLITION KEY NOTES**

- 1 SAWCUT
- 2 REMOVE CONCRETE SIDEWALK
- 3 REMOVE ASPHALT PAVEMENT
- 4 REMOVE WHEEL STOP
- 5 REMOVE CURB
- 6 SEPTIC TANK REMOVED BY OTHERS
- 7 REMOVE SIGN
- 8 REMOVE EXISTING UNDERGROUND ELECTRICAL SERVICE.
- 9 REMOVE FLAGPOLE
- 0 ---

# X PROTECTION KEY NOTES

- 30 PROTECT CURB AND SIDEWALK.
- 31 PROTECT CONCRETE DRIVEWAY
- 32 PROTECT UTILITY STRUCTURE
- 33 PROTECT STRUCTURE
- 34 PROTECT UTILITY POLE
- 35 PROTECT EXISTING STORM MAIN
- 36 PROTECT CATCH BASIN
- 37 PROTECT ROOF DRAIN

# SHEET LEGEND



REMOVE TREE

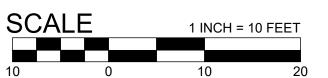
EXISTING GRADE CONTOUR

PROPOSED CURB LINE SHOWN FOR REFERENCE



PLAN







PRELIMINATE OF TON CONSTRUCTION

SPRINGDALE FIRE STATIO IMPROVEMENTS

> LAND USE SET

REV	DATE	ISSU	E TITLE
	15051111		
PRO	JECT MAN	IAGER:	EME
DES	IGNER:		EME
DRA	WN BY:	EEYKEL	BOSCH
PRO	JECT NO:		
DAT	E:		10/11/24
SCA	l F·	AS	SHOW

EET NUMBER:

C1.02

# **KEY NOTES**

- 1 SAWCUT LINE
- 2 HEAVY CONCRETE
- 4 RETAINING WALL, PER STRUCTURAL PLANS
- 5 ASPHALT PAVEMENT

3 STANDARD CONCRETE

- 6 PROPOSED BUILDING PER ARCHITECTURAL PLANS
- 7 ADA PARKING STALL
- 8 WHEEL STOP
- 9 ADA SIGN
- 10 PARKING STALL STRIPING
- 11 GENERATOR, BY OTHERS
- 12 PROPANE TANKS, BY OTHERS
- 13 BIOSWALE

14.92'

9.00' 2.00'

EAST HISTORIC COLUMBIA RIVER HIGHWAY (ODOT)

# SHEET LEGEND

— — PROPERTY LINE CONCRETE SIDEWALK

STANDARD ASPHALT PAVEMENT 

HEAVY CONCRETE

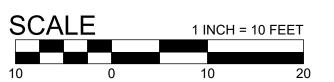


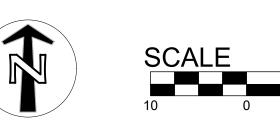
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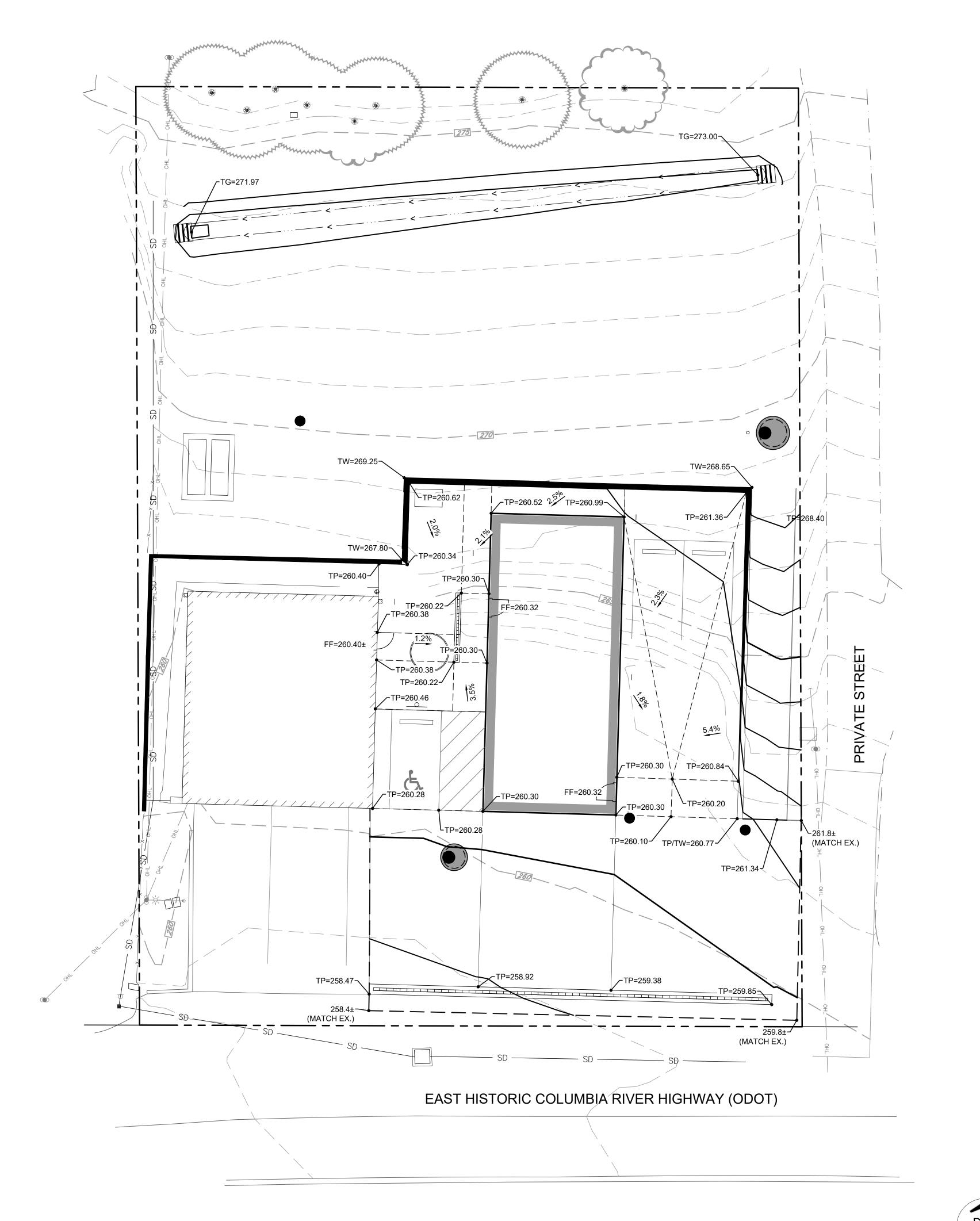
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DRA	WN BY:	EEYKEL	воѕсн
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DAT	E:	1	0/11/24
SCA	LE:	AS	SHOWN

SHEET TITLE: SITE PLAN









Plotted: 10/10/24 at 5:57pm By: eeykelbosch

# SHEET NOTES

- SLOPES PROVIDED ON SLOPE ARROW ARE FOR REFERENCE ONLY.
- 2. LANDINGS ON ACCESSIBLE ROUTES SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
- 3. ALL ACCESSIBLE ROUTES SHALL COMPLY WITH CURRENT ADA ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES (ADAAG).
- 4. TOP OF CONCRETE OUTSIDE DOOR = FF ELEV. MINUS 0.02' SLOPE LANDING 1.5% AWAY FROM BLDG.



PRELIMINARY PRELIMINARY CONSTRUCTION

# GRADING LABEL LEGEND

<u>CALLOUT</u> <u>DESCRIPTION</u>

X.X% GRADING

GRADING SLOPE AND DIRECTION (DOWNHILL)

SPOT ELEVATION

DESCRIPTION LISTED BELOW.

NO DESCRIPTION MEANS TP

OR TG

BOS BOTTOM OF SWALE
BW BOTTOM OF WALL
EG EXISTING GRADE
FF FINISHED FLOOR
RIM RIM OF STRUCTURE
TC TOP OF CURB
TG TOP OF GROUND
TP TOP OF PAVEMENT
TW TOP WALL

# SHEET LEGEND

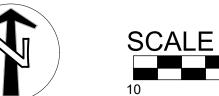
<b>→</b>	DRAINAGE FLOW DIRECTION
	GRADE BREAK
	EX. CONTOUR MINOR
50	EX. CONTOUR MAJOR
49———	CONTOUR MINOR (FG)
50	CONTOUR MAJOR (FG)
>	CONVEYANCE SWALE

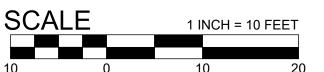


REV DATE	ISSUE TITLE
PROJECT MAN	AGER: EME
DESIGNER:	EME
DRAWN BY:	EEYKELBOSCH
PROJECT NO:	
DATE:	10/11/24
SCALE:	AS SHOWN

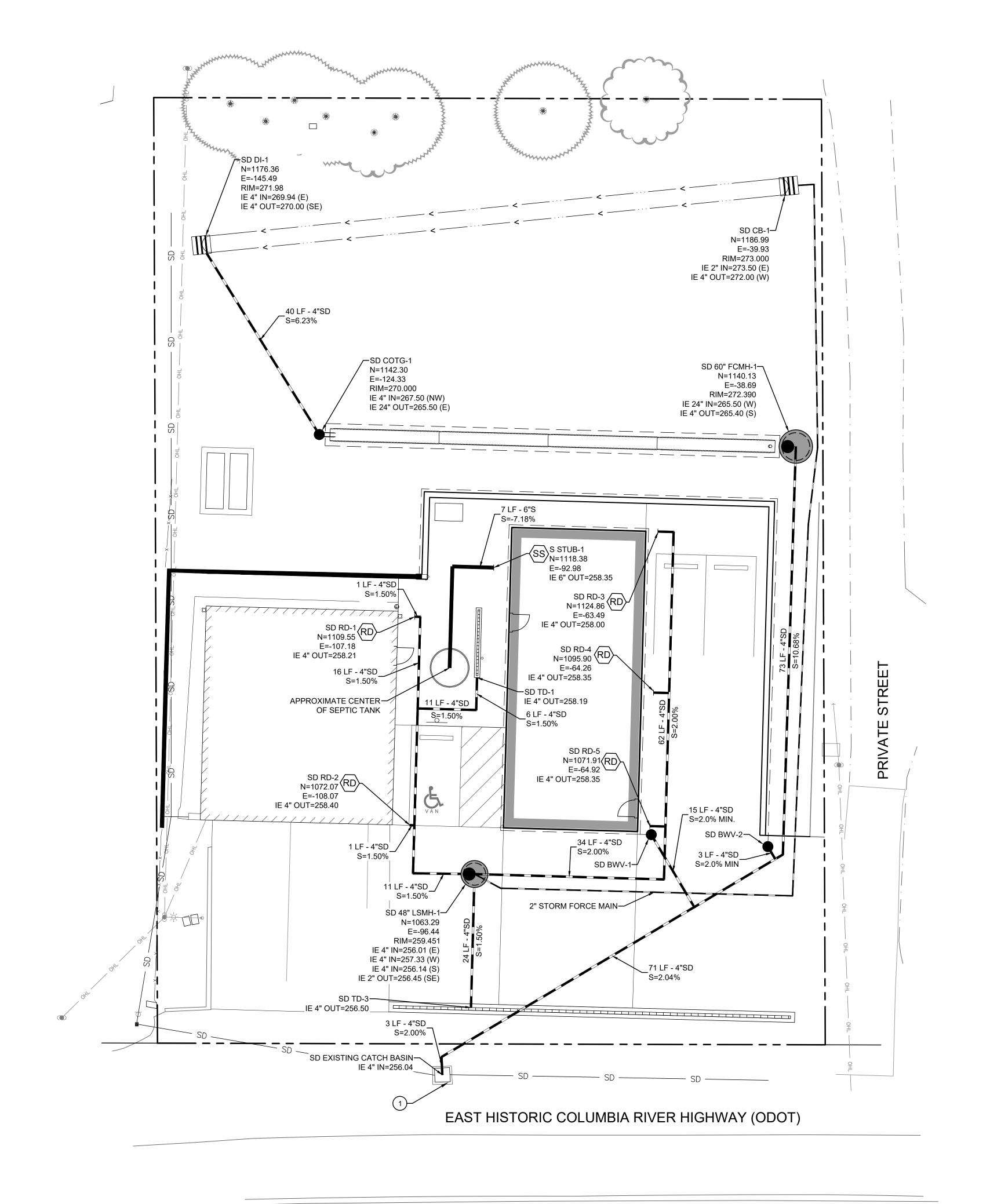
SHEET TITLE:

GRADING PLAN









Plotted: 10/10/24 at 5:57pm By: eeykelbosch

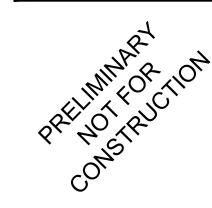
# SHEET NOTES

- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL X/C5.X.
- STRUCTURES LOCATIONS ARE BASED ON CENTER OF STRUCTURE.



# **KEY NOTES**

1 FIELD VERIFY LOCATION AND IE OF EXISTING CATCH BASIN PRIOR TO CONSTRUCTION.



# UTILITY LABEL LEGEND

# STRUCTURE LABEL

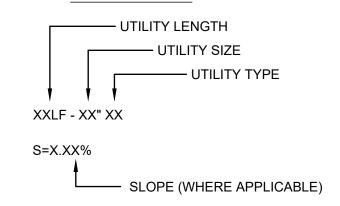
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UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)

STRUCTURE TYPE CALLOUT

ID NUMBER (WHERE APPLICABLE)

XX XX-XX
N=XX.XX
E=XX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X
```

# PIPE LABEL



# STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
BEND	BEND, USE FITTING IF APP	PLICABLE 🔨
BWV	BACKWATER VALVE	$\frac{(x \cdot x)}{(x \cdot x)}$
СВ	CATCH BASIN	$\underbrace{-\left( x \times x \right)}_{\left( x \times x \times x \right)}$
COTG	CLEANOUT TO GRADE	
CONN	CONNECTION	
DI	DITCH INLET	
FCMH	FLOW CONTROL MANHOL	.E
FD	FOUNDATION DRAINAGE I	POINT OF CONN.
GV	GATE VALVE	
LSMH	LIFT STATION MANHOLE	
TD	TRENCH DRAIN	
TEE	TEE CONNECTION	
WYE	WYE CONNECTION	

# SPRINGDALE FIRE STATION IMPROVEMENTS

# LAND USE SET

ISSUE TITLE

# SHEET LEGEND

- CONNECT TO STORM DRAIN/ROOF
  DRAIN. SEE PLUMBING PLANS FOR
  CONTINUATION. SIZE AND IE AS NOTED.
- CONNECT TO SANITARY SEWER LINE.
  SEE PLUMBING PLANS FOR
  CONTINUATION. SIZE AND IE AS NOTED.
- CONTINUATION. SIZE AND IE AS NOTED

  UTILITY CROSSING. PROVIDE 12" MIN.
  CLEARANCE, U.N.O.

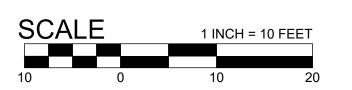


PROJECT MAN	AGER: EME
DESIGNER:	EME
DRAWN BY:	EEYKELBOSCH
PROJECT NO:	
DATE:	10/11/24
SCALE:	AS SHOWN

**REV DATE** 

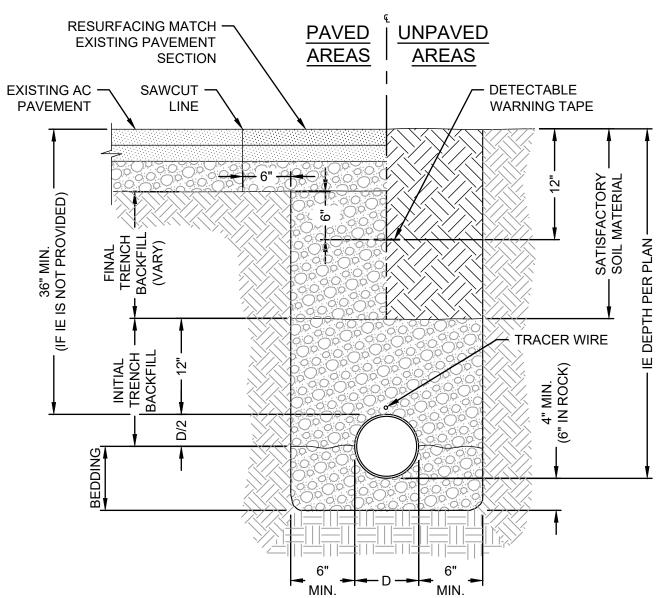
SHEET TITLE:
UTILITY PLAN



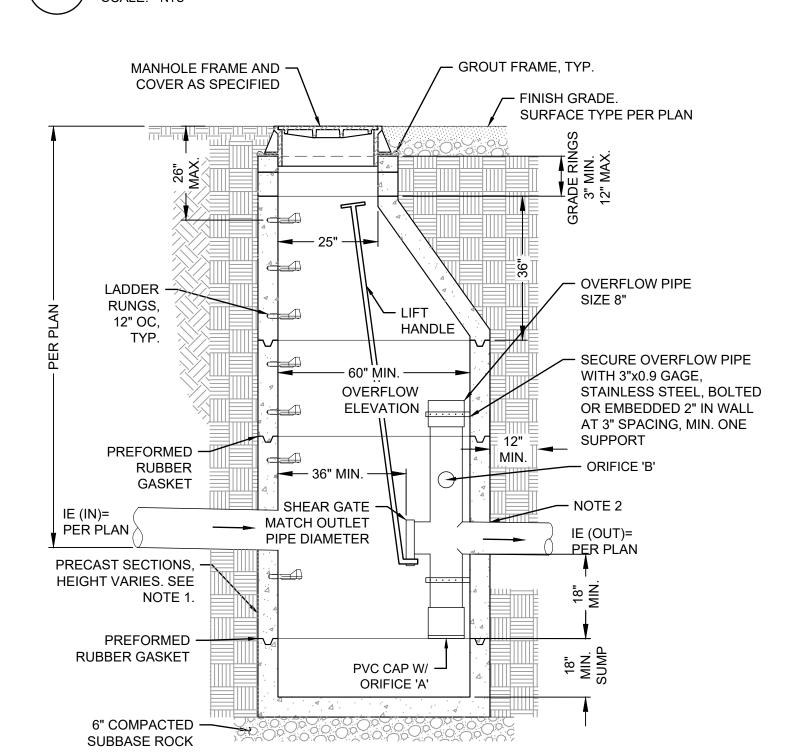


SHEET NUMBER:

# DOWNSPOUT/STORM DRAIN CONNECTION SCALE: NTS



# TYPICAL PIPE BEDDING AND BACKFILL



NOTES:
1. ALL PRECAST SECTIONS SHALL CONFORM TO FCMH-1 REQUIREMENTS OF ASTM C-478. DIAMETER OF ORIFICE 'A' (IN) 2. ALL CONNECTING PIPES SHALL HAVE ORIFICE B IE FLEXIBLE, GASKETED AND UNRESTRAINED **ELEVATION (FT)** JOINT WITHIN 18" OF MANHOLE VAULT. PIPE SIZES NOTED ON PLANS. PIPE CONNECTION TO DIAMETER OF MANHOLES SHALL HAVE KOR-N-SEAL BOOT OR ORIFICE B (IN) APPROVED EQUAL. OVERFLOW +2.40' ELEVATION (FT)

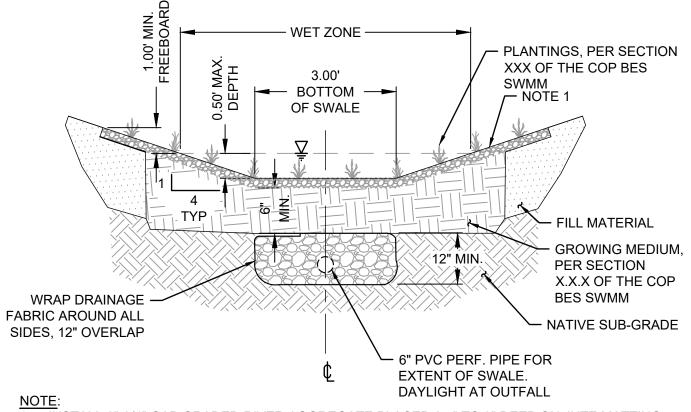
3. ORIFICE AND OVERFLOW ELEVATIONS ARE RELATIVE TO IE (OUT)

FLOW CONTROL MANHOLE

- INLET FRAME & GRATING - PIPE OUTLET <u>PLAN</u> FINISH GRADE -RIM PER -PLAN FLOW NOTE 1 **ENGINEERED** -OUTLET. FILL SIZE PER PLAN PLAN 6" TYP. BASE (ALL SIDES) MATERIAL **SECTION FRONT** 

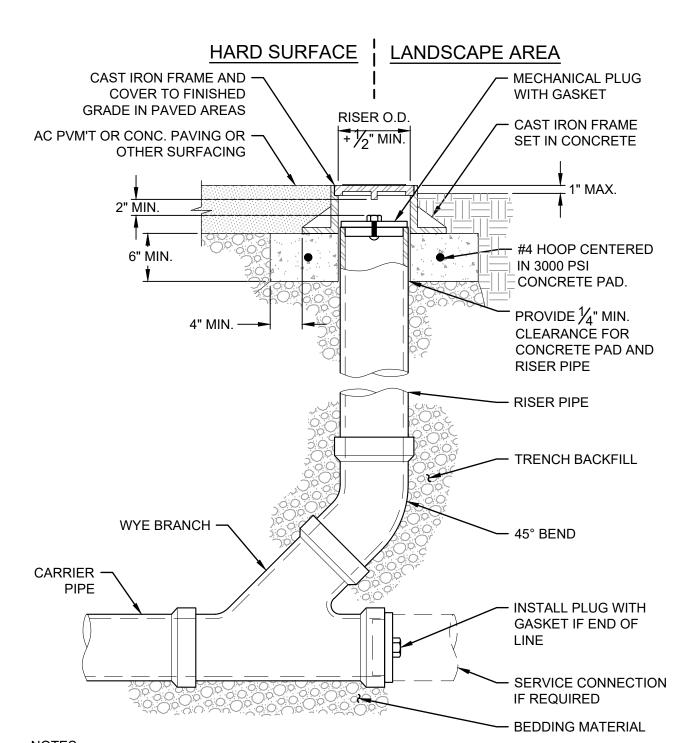
1. CONTRACTOR TO WIDEN EXCAVATION AS REQUIRED TO OBTAIN COMPACTION WITH CONTRACTORS COMPACTION EQUIPMENT.

# 2. CONCRETE BASIN TO BE 3000 PSI. **DITCH INLET - TYPE 1** SCALE: NTS



1. INSTALL 2"-3/4" GAP GRADED RIVER AGGREGATE PLACED 2.5" TO 3" DEEP ON JUTE MATTING



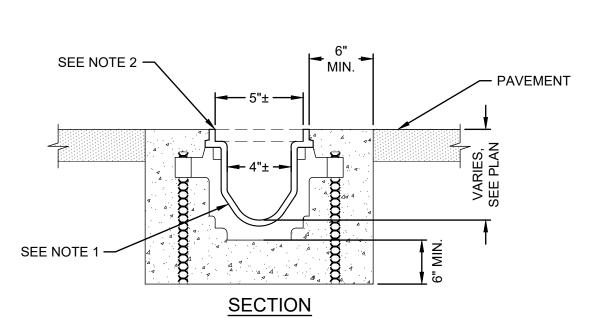


NOTES:

1. CAST IRON FRAME AND COVER SHALL MEET H-20 LOAD REQUIREMENT.

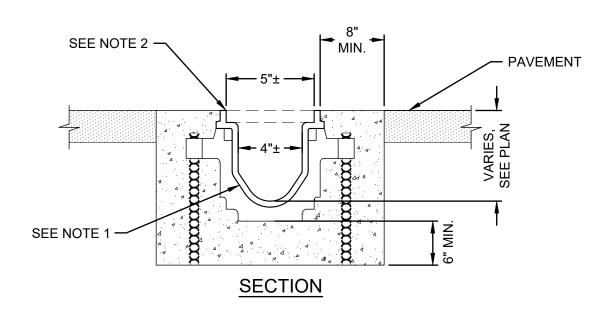
- 2. FOR CARRIER PIPE SIZE 6" $\varnothing$  AND LESS, PROVIDE RISER PIPE SIZE TO MATCH CARRIER PIPE.
- 3. FOR CARRIER PIPE SIZE 8" $\emptyset$  AND LARGER, RISER PIPE SHALL BE 6" $\emptyset$ .
- 4. RISER PIPE MATERIAL TO MATCH CARRIER PIPE MATERIAL.

# STANDARD CLEANOUT (COTG) SCALE: NTS



TRENCH DRAIN SHALL BE PRE-SLOPED 4" WIDE ZURN OR ACO TRENCH DRAIN OR APPROVED EQUAL.

- 2. TRENCH DRAINS GRATE SHALL BE LOCKABLE HEAVY DUTY SLOTTED IRON TRENCH GRATE -
- 3. TRENCH SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. TRENCH DRAIN - 4 INCH WIDE (TYPE 1) SCALE: NTS



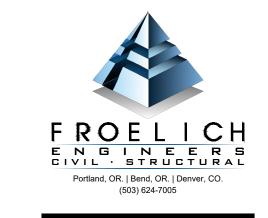
NOTES:

1. TRENCH DRAIN SHALL BE PRE-SLOPED 4" WIDE ZURN OR ACO TRENCH DRAIN OR APPROVED EQUAL.

- 2. TRENCH DRAINS GRATE SHALL BE LOCKABLE HEAVY DUTY SLOTTED IRON TRENCH GRATE -
- 3. TRENCH SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. TRENCH DRAIN - 4 INCH WIDE (TYPE 2)

SCALE: NTS

- AC SURFACE COURSE: - AC BASE COURSE: X" OF X" DENSE GRADED, X" OF X" DENSE GRADED, LEVEL X HMAC LEVEL X HMAC - COMPACTED X" OF BASE SUBGRADE COURSE



— X" THICK PORTLAND CEMENT CONCRETE 

**ASPHALT PAVEMENT SECTION** 

. - CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS - CONSTRUCT EXPANSION JOINTS AT 200' MAX. SPACING AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY.

- X" OF SUBBASE

COURSE

2. PROVIDE MEDIUM TO COARSE BROOM FINISH.

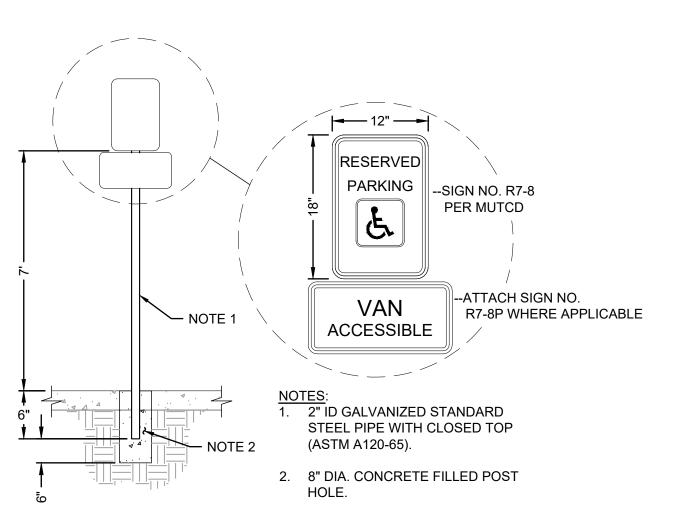
- COMPACT

SUBGRADE

# **CONCRETE PAVEMENT SECTION**

SCALE: NTS EDGE OF AC PARKING LOT PRECAST CONCRETE WHEEL STOP (WHERE APPLICABLE) — 4" WHITE -STRIPE (TYP.) **PARKING** 6' (8' VAN), TYP. 9' TYP. (U.N.O.) (U.N.O.) BLUE - ADA SYMBOL AND "VAN" BACKGROUND ACCESSIBLE TEXT SHALL (OPTIONAL) OCCUR ONLY AT STALLS

SHOWN ON PLANS TYPICAL PARKING LAYOUT SCALE: NTS



**ADA PARKING SIGN** 

SCALE: NTS

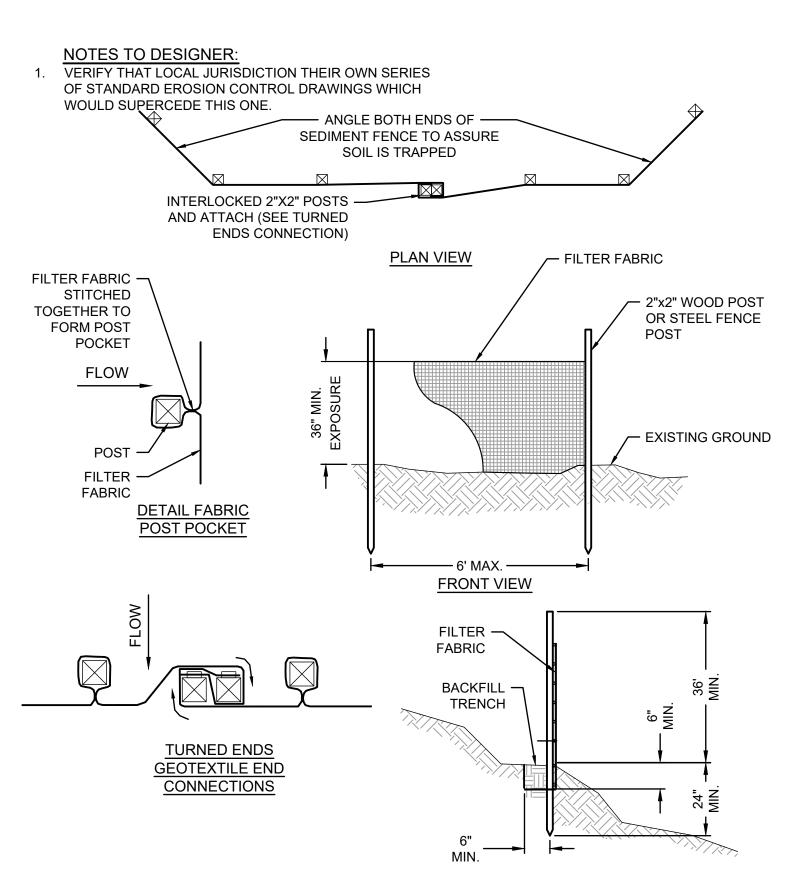
ISSUE TITLE **REV DATE** PROJECT MANAGER: DESIGNER: DRAWN BY: EEYKELBOSCH PROJECT NO: DATE: 10/11/24 SCALE: AS SHOWN SHEET TITLE: **DETAILS** 

LAND USE

SET

SPRINGDALE FIMPROVEMENT

SHEET NUMBER:



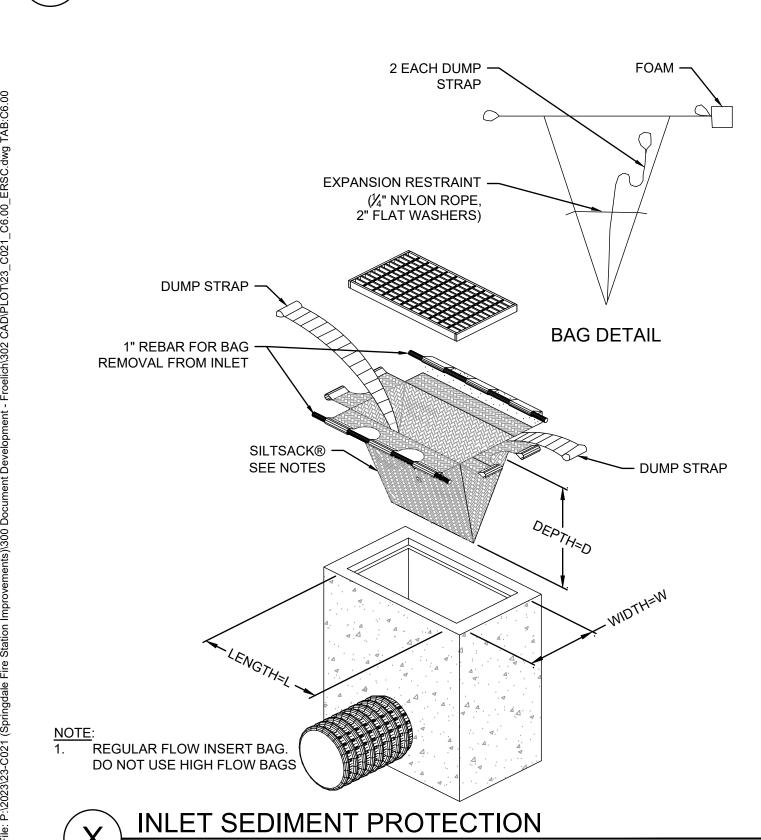
SIDE VIEW

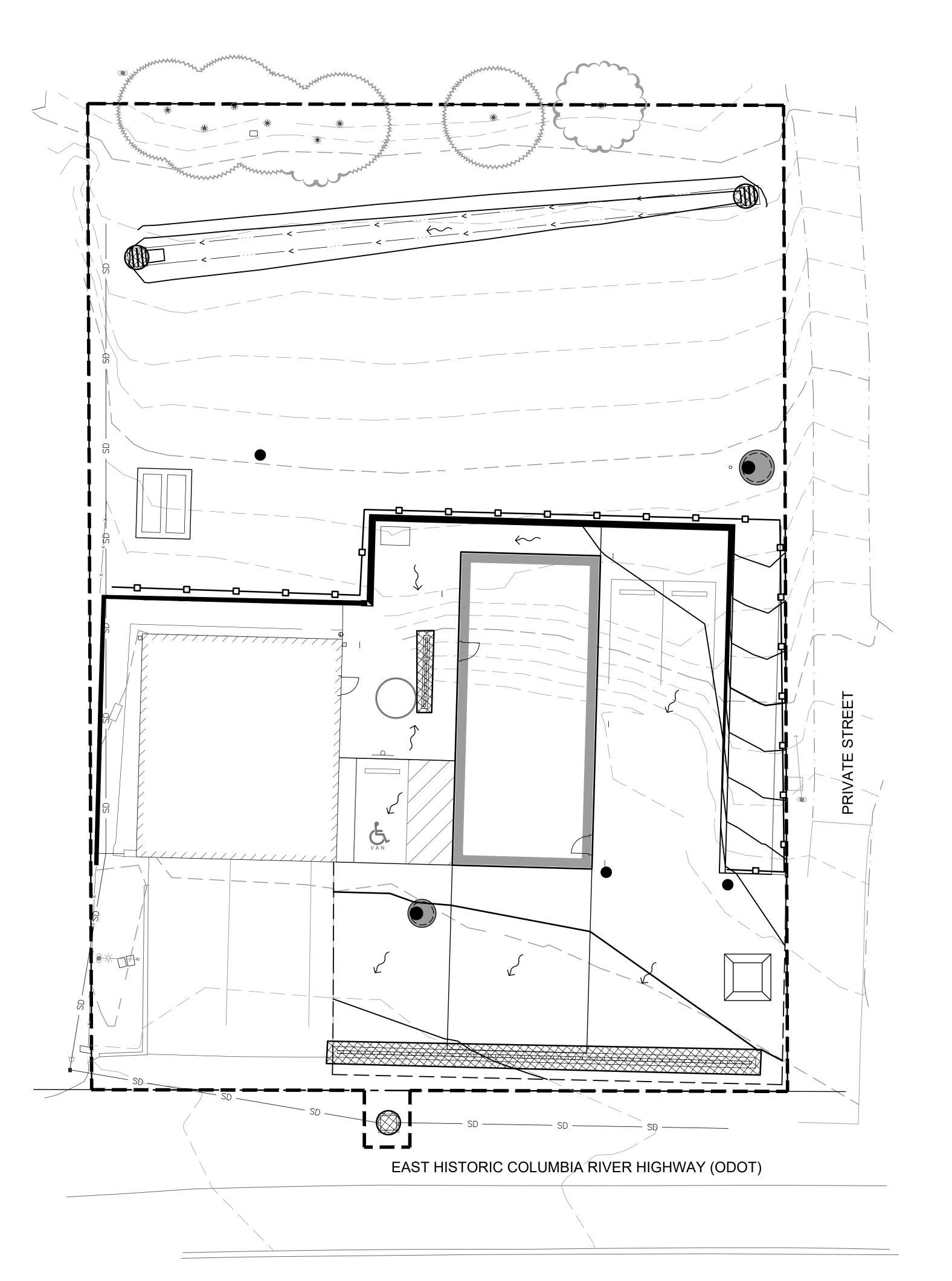
- NOTES:

  1. THE FILTER FABRIC SHALL BE (36" MIN. WIDTH) PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST, OR OVERLAP 2"x2" POSTS AND ATTACH AS SHOWN ON DETAIL SHEET.
- 2. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS WHERE FEASIBLE. THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6-FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 24-INCHES.
- 3. THE FILTER FABRIC SHALL HAVE A MINIMUM VERTICAL BURIAL OF 6-INCHES. ALL EXCAVATED MATERIAL FROM FILTER FABRIC FENCE INSTALLATION, SHALL BE BACKFILLED AND COMPACTED, ALONG THE ENTIRE DISTURBED AREA.
- 4. STANDARD OR HEAVY DUTY FILTER FABRIC SHALL HAVE MANUFACTURED STITCHED LOOPS FOR 2"x2" POST INSTALLATION. STITCHED LOOPS WITH STAKES SHALL BE INSTALLED ON THE DOWN-HILL SIDE OF THE SLOPED AREA.
- 5. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UP-SLOPE AREA HAS BEEN PERMANENTLY PROTECTED AND STABILIZED.
- 6. FILTER FABRIC FENCES SHALL BE INSPECTED BY CONTRACTOR IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS, RELOCATIONS OR ADDITIONS SHALL BE MADE IMMEDIATELY.

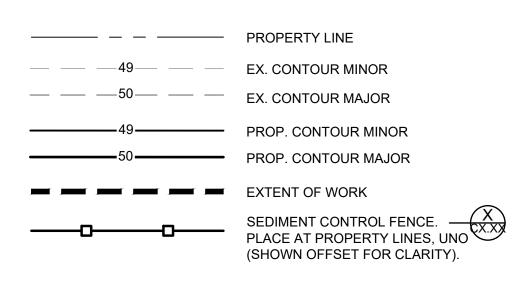
# SEDIMENT FENCE

SCALE: NTS













DRAINAGE FLOW DIRECTION

FROELICH
ENGINEERS
CIVIL STRUCTURAL
Portland, OR. | Bend, OR. | Denver, CO.
(503) 624-7005



MPROVEMENTS

LAND USE SET

REV	DATE	ISSU	E TITI
PRO	JECT MAN	IAGER:	ΕN
DES	IGNER:		E١
		FEVVE	BUSC
DRA	WN BY:	EEYKEL	БОЗС
	JECT NO:	EETKEL	-
	JECT NO:		-10/11/

SHEET TITLE:
EROSION
CONTROL PLAN
AND DETAILS

SHEET NUMBER:

**C6.00** Shows