

SIKH CENTER OF OREGON

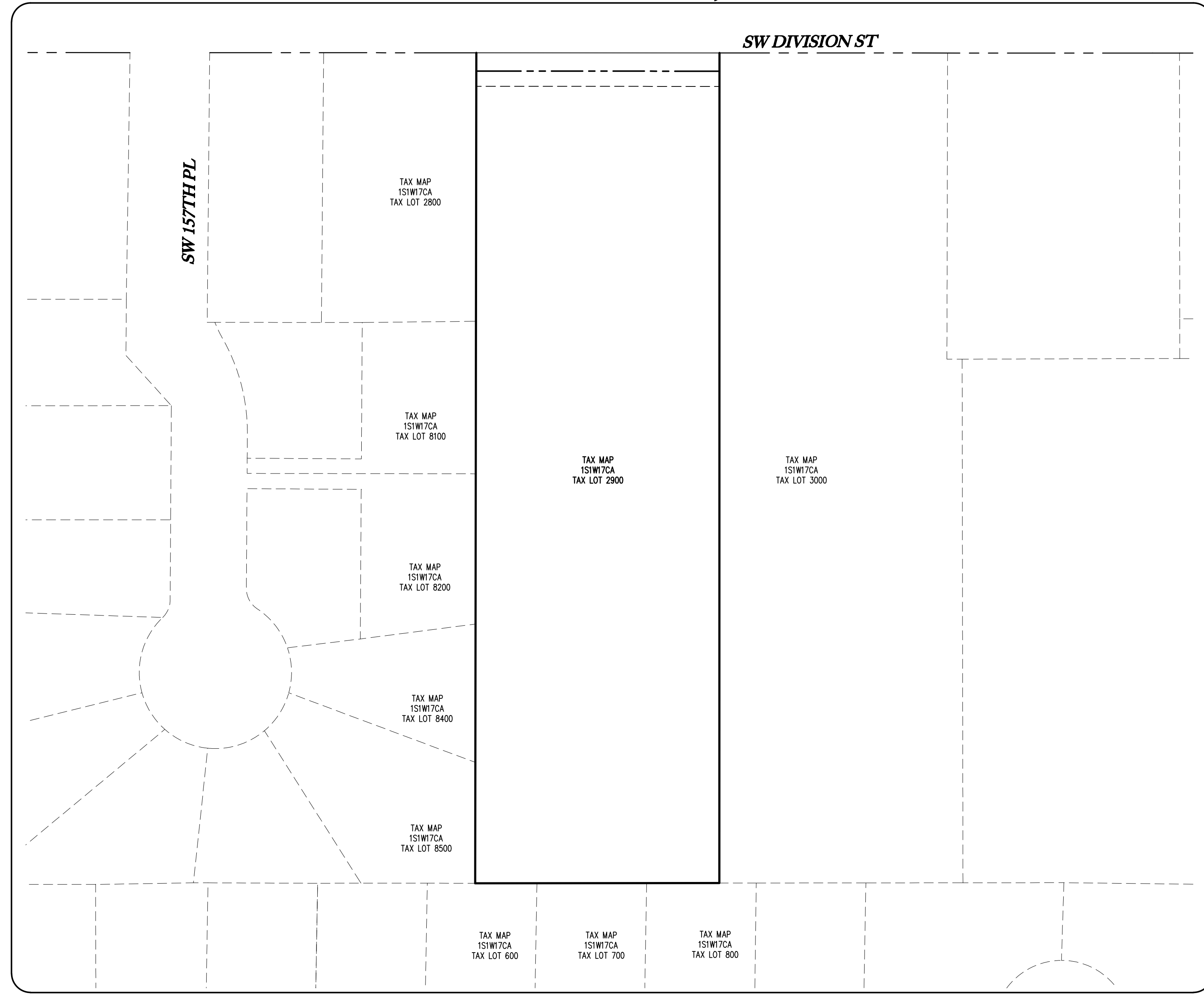
Received
Planning Division
4/11/2024

Exhibit 3.04

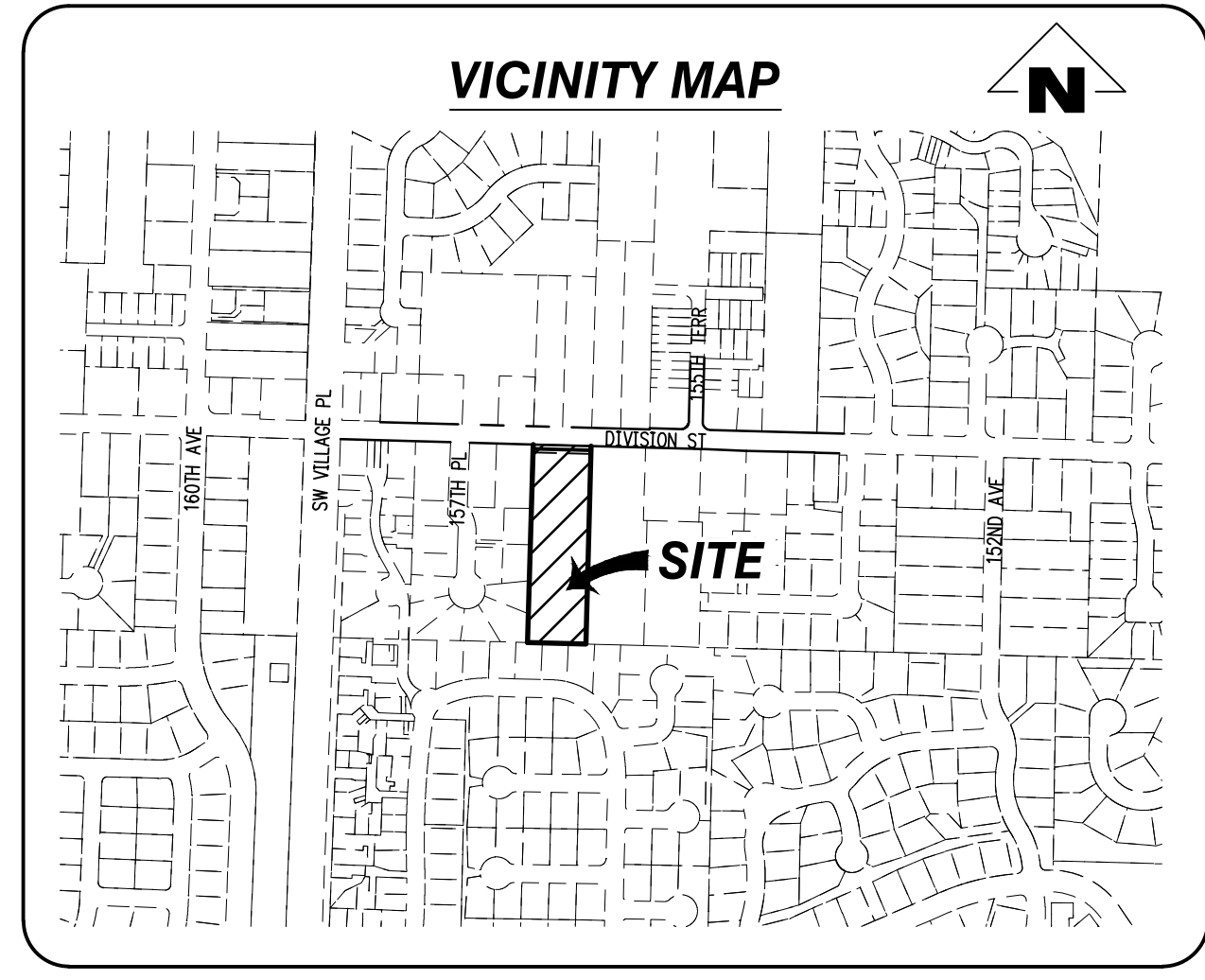
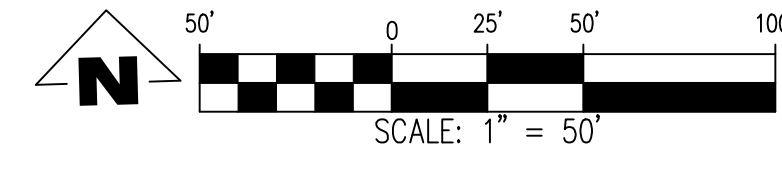
NEW CONDITIONAL USE TAX LOT 02900 LOCATED IN THE SW 1/4 OF SEC 31, T. 1S, R. 1W, S. 17 CITY OF BEAVERTON, OREGON

LEGEND

	RIGHT-OF-WAY
	SITE BOUNDARY
	ADJACENT/ADJOINING LOT LINE
	ROADWAY CENTERLINE
	EASEMENT LINE
	EXISTING STORM SEWER & MANHOLE
	EXISTING STORM SEWER & INLET
	EXISTING SANITARY SEWER & MANHOLE
	EXISTING WATERLINE & SERVICE
	EXISTING WATER VALVE & BOX
	EXISTING GAS LINE
	EXISTING FIRE HYDRANT
	EXISTING OVERHEAD UTILITY LINE
	EXISTING UTILITY POLE
	EXISTING 1' CONTOUR LINE
	EXISTING 5' CONTOUR LINE
	EXISTING FENCE
	EXISTING SIGN
	EXISTING TREE TO BE REMOVED
	EXISTING TREE TO REMAIN
	PROPOSED STORM DRAIN PIPE
	PROPOSED STORM DRAIN MANHOLE
	PROPOSED STORM DRAIN CATCH BASIN
	PROPOSED CURB INLET
	PROPOSED STORM LATERAL
	PROPOSED SANITARY LATERAL
	PROPOSED WATER METER
	PROPOSED WATER LINE
	PROPOSED 1' CONTOUR LINE
	PROPOSED 5' CONTOUR LINE
	PROPOSED CURB AND GUTTER
	PROPOSED SAWCUT
	PROPOSED 2" GRIND & INLAY
	PROPOSED WATER QUALITY FACILITY



SITE MAP



VICINITY MAP

SITE DATA

ADDRESSES: 15660 SW DIVISION STREET

SITE AREA: 2.00 ACRES

ZONING: RMC - RESIDENTIAL MIXED USE

TAX MAP: 1S1 17CA

TAX LOT: 02900

PROPOSED USE: CONVERT EXISTING BUILDINGS INTO SIKH TEMPLE WITH ADDED PARKING LOT & UTILITY IMPROVEMENTS

BENCHMARK INFORMATION

THE DATUM FOR THIS SURVEY IS BASED UPON WASHINGTON COUNTY BENCHMARK NO. 43, A BRASS DISC SET IN WEST CURB AT SW 152ND AVE, APPROXIMATELY 50 FEET SOUTH OF CENTERLINE OF SW DIVISION ST, 16.5 FEET SOUTH OF NORTH END OF CONCRETE SIDEWALK & CURB.

ELEVATION=206.200', NGVD 29, UNITS ARE INTERNATIONAL FEET

Sheet List Table

Sheet Number	Sheet Title
01	COVER SHEET
02	EXISTING CONDITIONS AND DEMOLITION PLAN
03	PRELIMINARY SITE PLAN
04	PRELIMINARY UTILITY PLAN
05	PRELIMINARY GRADING & EROSION CONTROL PLAN
06	SW DIVISIONS ST & SD-01 STA 10+00 TO 13+25 - PLAN & PROFILE
07	SW DIVISIONS ST & SD-01 STA 13+25 TO 16+50 - PLAN & PROFILE
08	SD-01 STA 3+50 TO 5+95.50 - PLAN & PROFILE
09	DETAILS

ENGINEER'S NOTE TO CONTRACTOR:

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS.

THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

PROJECT CONTACTS

APPLICANT/OWNER: SIKH CENTER OF OREGON 17514 SW SCHOLLS FERRY ROAD BEAVERTON, OREGON 97007 CONTACT: SUKHINDER SINGH DEAO (978) 328-6035 (P)	PROJECT PLANNER: REECE ENGINEERING & SURVEY 321 FIRST AVENUE EAST, SUITE 3A ALBANY, OREGON 97321 CONTACT: HAYDEN WOOTON (541) 926-2428 (P)	ARBORIST: PORTLAND TREE CONSULTANCY 3927 N MICHIGAN AVE PORTLAND, OREGON 97227 CONTACT: LOU PHEMISTER (573) 999-3886 (P)
CIVIL ENGINEER/SURVEYOR: EMERIO DESIGN, LLC SUITE 100 6670 SW FALLBROOK PLACE BEAVERTON, OREGON 97008 ENGINEERING CONTACT: ROY HANKINS SURVEYOR CONTACT: ERIC LYNCH (503) 746-8812 (P) (503) 639-9592 (F)	GEOTECHNICAL ENGINEER: GEOPACIFIC 14835 SW 72ND AVE PORTLAND, OREGON 97224 CONTACT: JAMES IMBRIE (503) 598-8445 (P)	

UTILITY CONTACTS

POWER: PORTLAND GENERAL ELECTRIC 9480 SW BOECKMAN ROAD WILSONVILLE, OREGON 97070	GAS: NORTHWEST NATURAL GAS COMPANY 220 NW 2ND AVE. PORTLAND, OREGON 97209	TELEPHONE: VERIZON NORTHWEST P.O. BOX 1100 BEAVERTON, OREGON 97075
WATER: BEAVERTON WATER 12725 SW MILLIKAN WAY BEAVERTON, OREGON 97005 (503) 526-2257 (P)	CABLE: COMCAST 14200 SW GRIGADOON CT BEAVERTON, OREGON 97005	FIRE: TUALATIN VALLEY FIRE & RESCUE 11945 SW 70TH AVENUE TIGARD, OR 97223 (503) 649-8577 (P)

PLANNING PLAN SET
DESIGN REVIEW SUBMITTAL
FOR THE SIKH CENTER OF OREGON
TAX MAP 1S1W 17CA, TL 02900
CITY OF BEAVERTON, OREGON

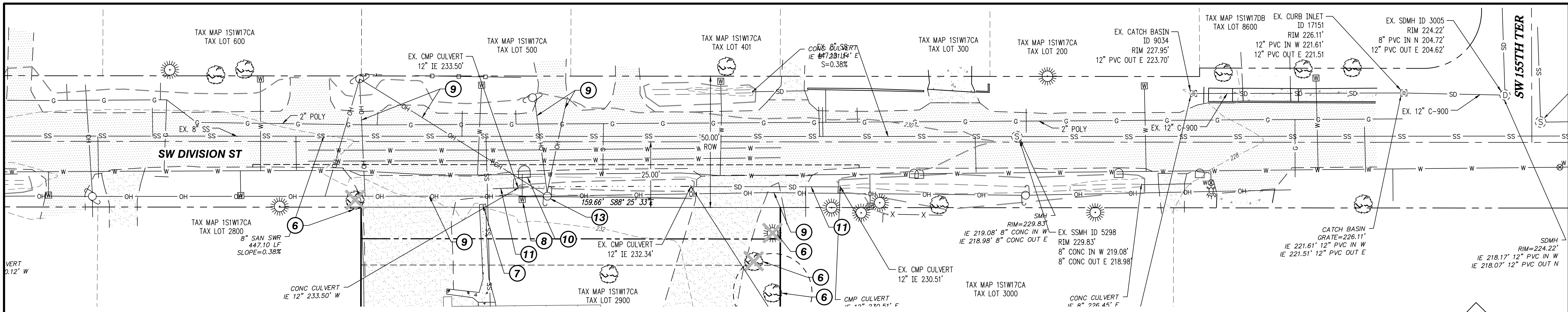
COVER SHEET

NO.	DATE	DESCRIPTION

6646 SW FALLBROOK PLACE, SUITE 100
BEAVERTON, OREGON 97008
TEL: (503) 746-8812
FAX: (503) 639-9592
www.emeriodesign.com

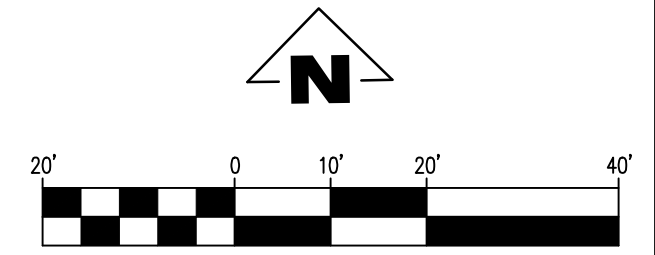
PRELIMINARY

SHEET
01 OF 09



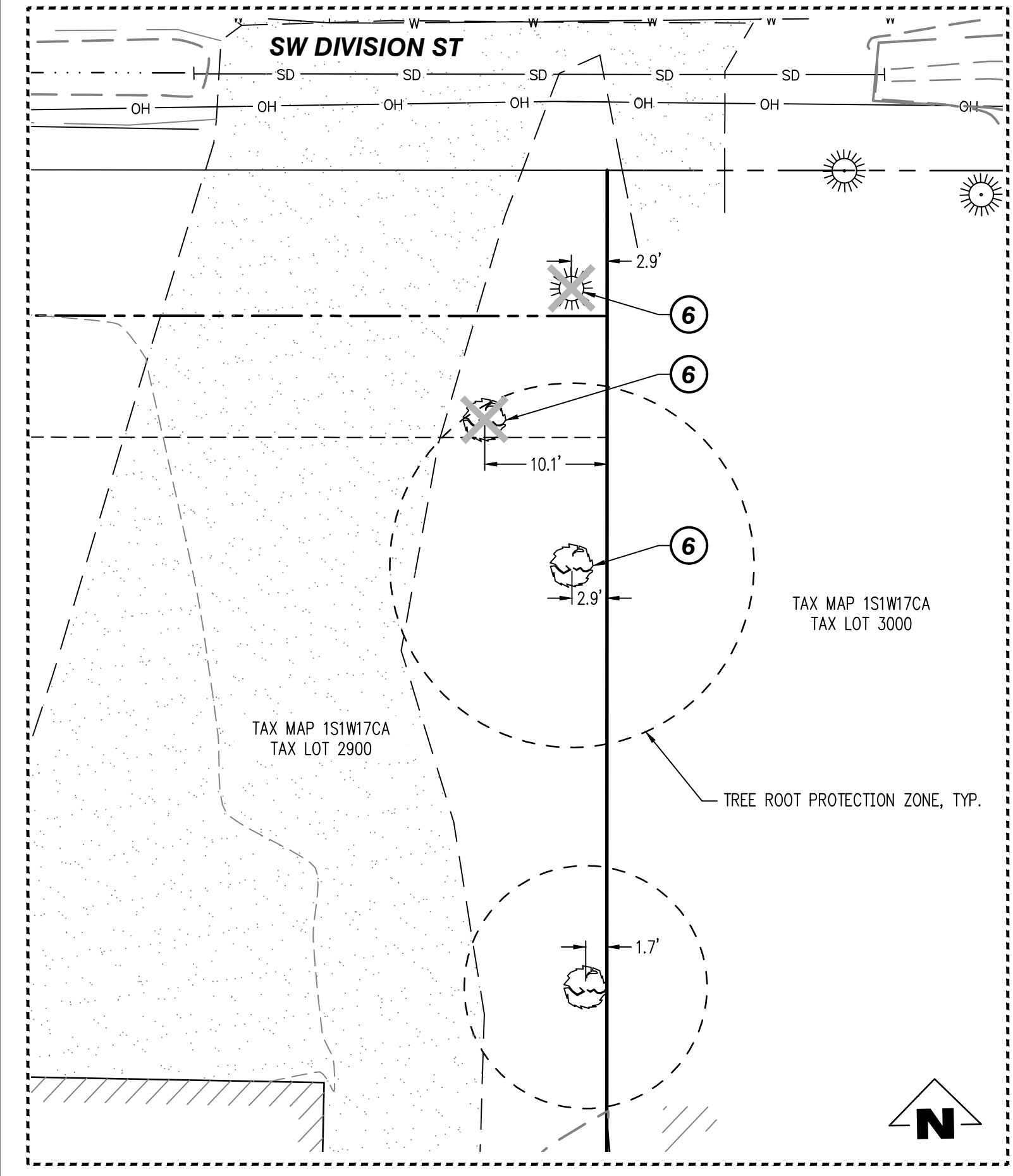
EXISTING CONDITIONS PLAN - DIVISION STREET

SCALE: 1"=20'



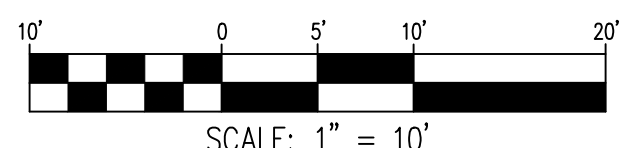
DEMOLITION NOTES:

- | | |
|--|--|
| 1 A PORTION OF THE EX. BUILDING TO BE REMOVED, CAR PORT & SHED | 8 REMOVE EXISTING WATER METER |
| 2 REMOVE EXISTING DECK | 9 EXISTING OVERHEAD POWER TO BE PLACED UNDERGROUND |
| 3 REMOVE EXISTING GRAVEL DRIVEWAY | 10 EXISTING MAILBOX TO BE REMOVED |
| 4 REMOVE EXISTING BUILDING ADDITION | 11 EXISTING CULVERT TO BE REMOVED |
| 5 REMOVE EXISTING FENCE AND RELOCATE TO PROPERTY LINE | 12 REMOVE EX. 4' CHAIN LINK FENCE |
| 6 REMOVE EXISTING TREE (64 TOTAL) | 13 REMOVE UTILITY POLE, COORDINATE WITH PGE |
| 7 REMOVE EXISTING WALKWAY | 14 MISC WATER, SIZE AND OWNERSHIP UNKNOWN |

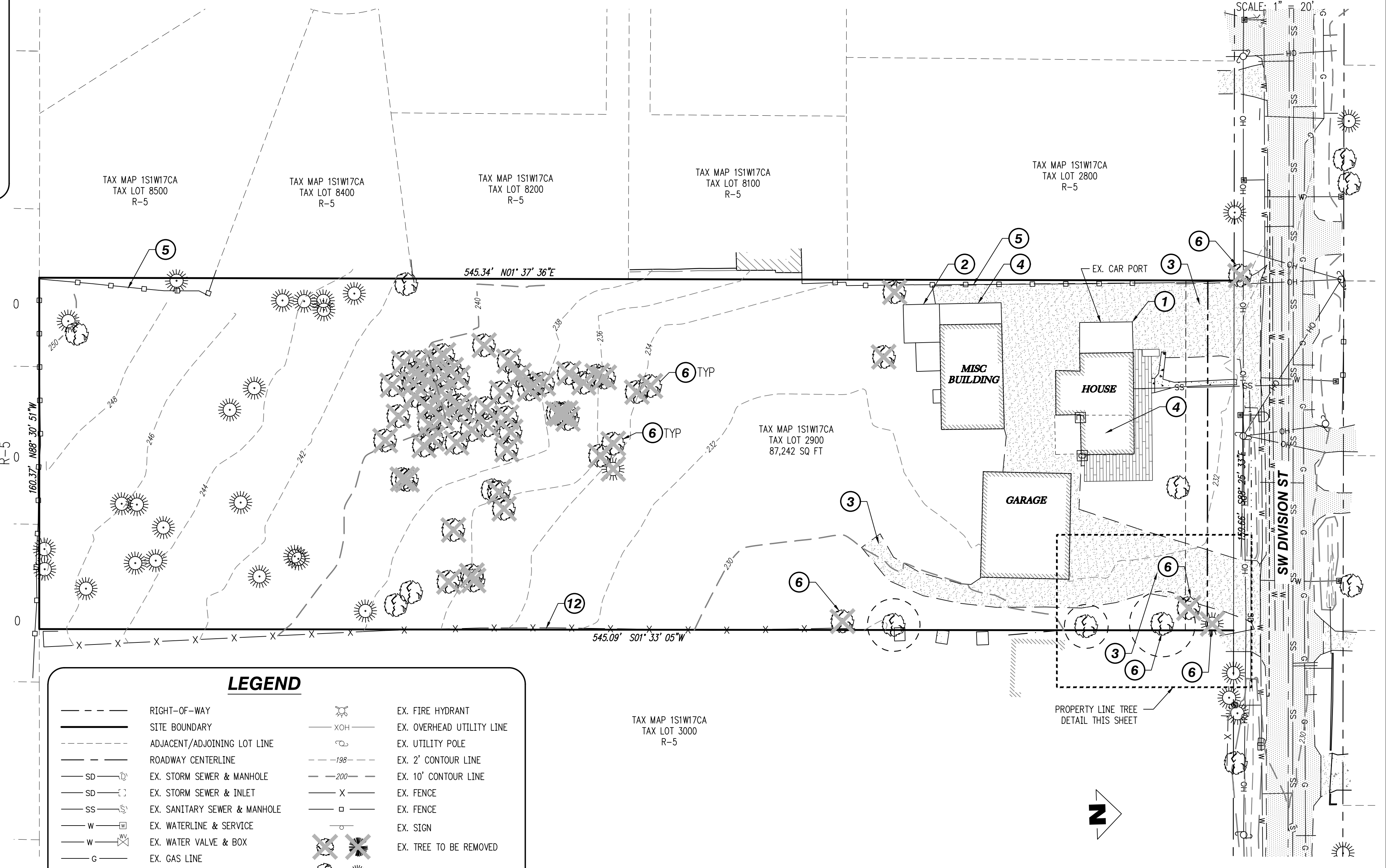


PROPERTY LINE TREE DETAIL

SCALE: 1"=10'

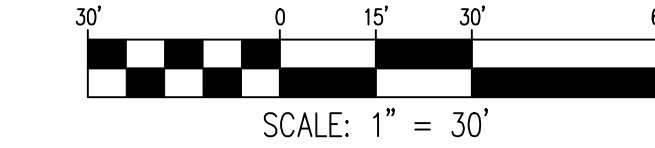


SCALE: 1" = 10'



EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: 1" = 30'



SCALE: 1" = 30'

LEGEND

--- RIGHT-OF-WAY	--- EX. FIRE HYDRANT
--- SITE BOUNDARY	--- EX. OVERHEAD UTILITY LINE
--- ADJACENT/ADJOINING LOT LINE	--- EX. UTILITY POLE
--- ROADWAY CENTERLINE	--- EX. 2' CONTOUR LINE
--- SD --- EX. STORM SEWER & MANHOLE	--- 200 --- EX. 10' CONTOUR LINE
--- SS --- EX. STORM SEWER & INLET	--- X --- EX. FENCE
--- W --- EX. SANITARY SEWER & MANHOLE	--- □ --- EX. FENCE
--- W --- EX. WATERLINE & SERVICE	--- X --- EX. SIGN
--- W --- EX. WATER VALVE & BOX	--- X --- EX. TREE TO BE REMOVED
--- G --- EX. GAS LINE	--- X --- EX. TREE TO REMAIN

**PLANNING PLAN SET
DESIGN REVIEW SUBMITTAL
FOR THE SIKH CENTER OF OREGON
TAX MAP 1S1W 17CA, TL 02900
CITY OF BEAVERTON, OREGON**

**EXISTING CONDITIONS
AND DEMOLITION PLAN**

REVISIONS

NO.	DATE	DESCRIPTION

EMERIO
ENGINEERING • SURVEYING • DESIGN
6445 SW CALLECOCK PLACE, SUITE 100
BEAVERTON, OREGON 97008
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PRELIMINARY

SHEET
02
OF
09

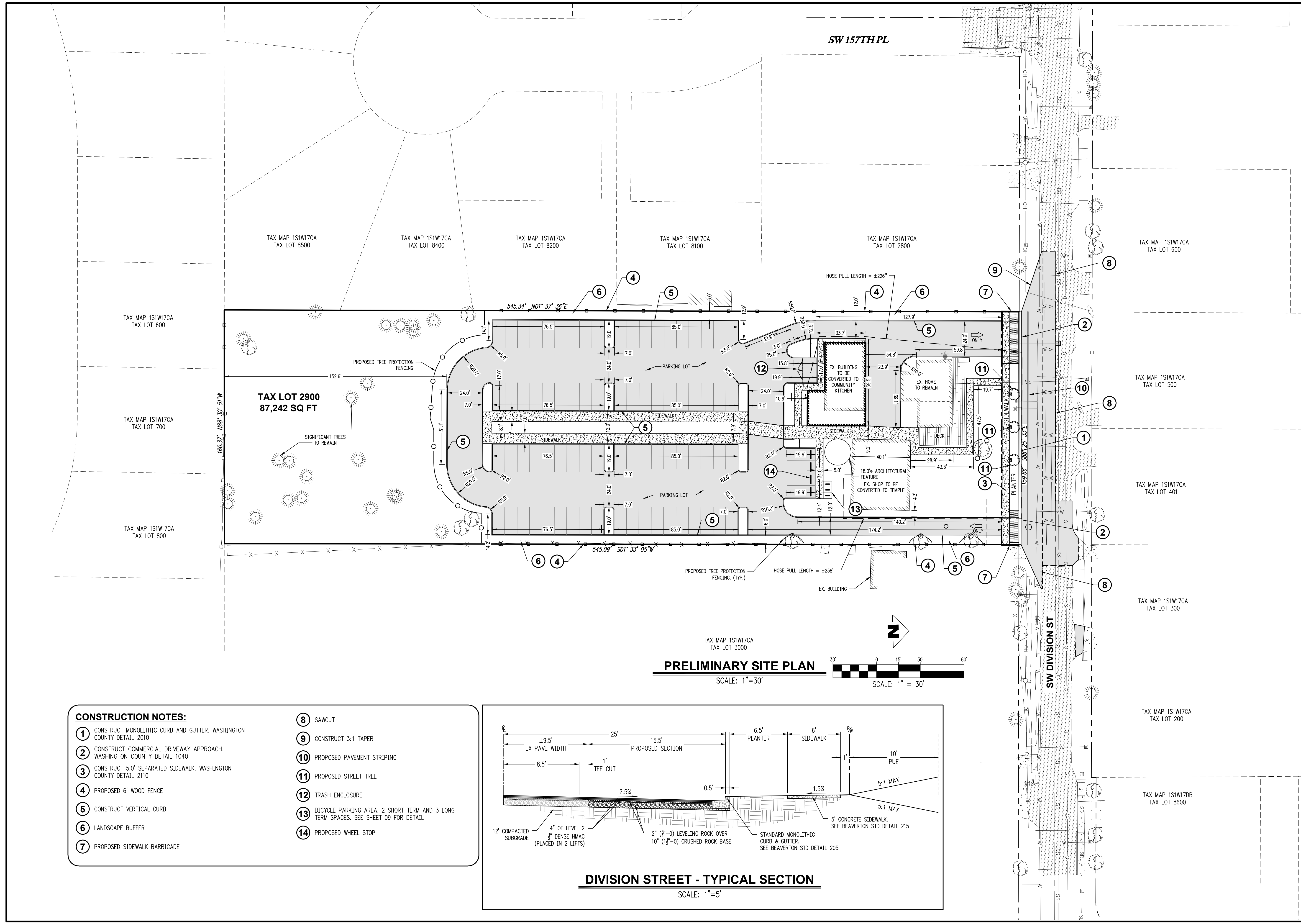
FILE: P:\2039-001 Beaverton Sikh Temple (dwg) from 2039-001_02_xcon Layout: 02 EXISTING CONDITIONS AND DEMOLITION PLAN, Plot Date: 3/29/2024 7:48 AM, by: David Burnett

PRELIMINARY SITE PLAN

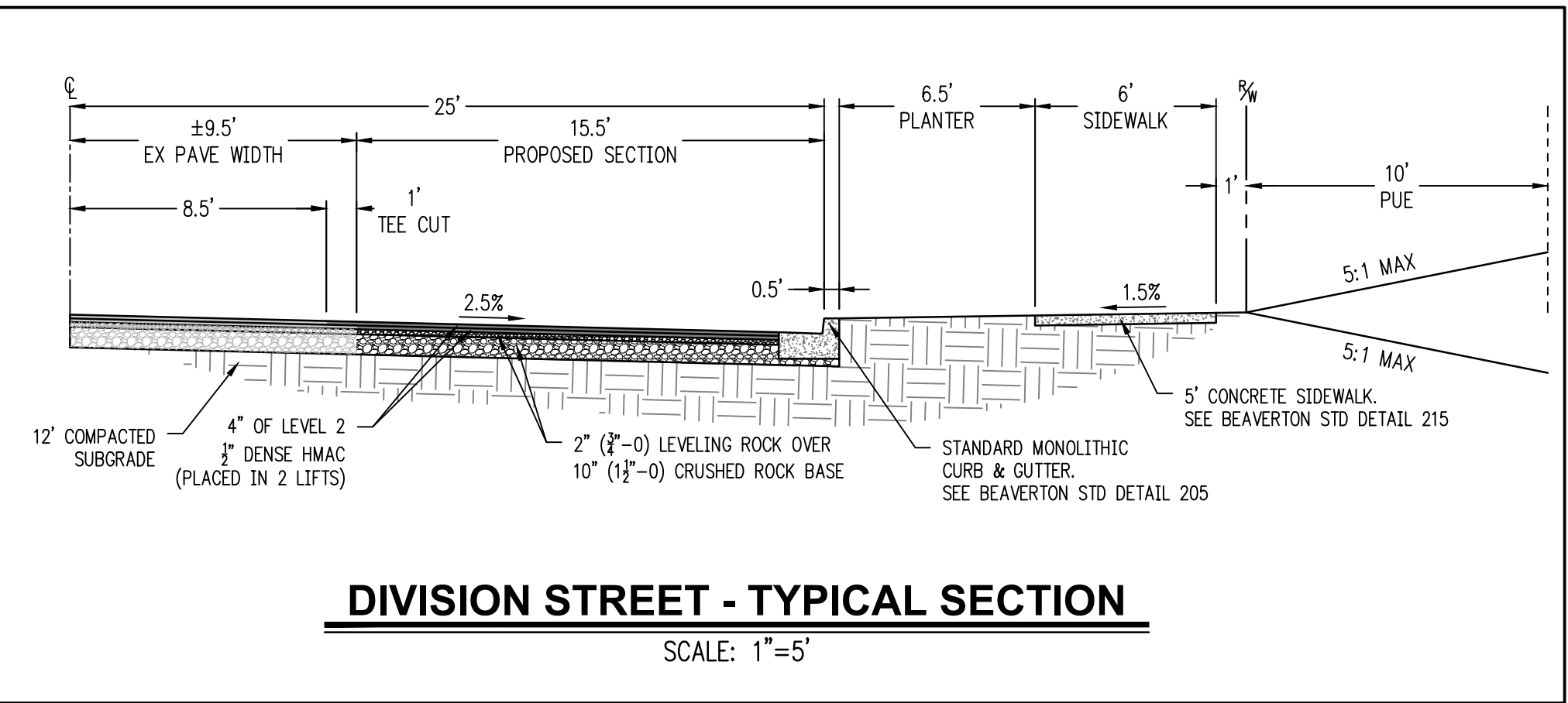
NO.	DATE	DESCRIPTION

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PRELIMINARY



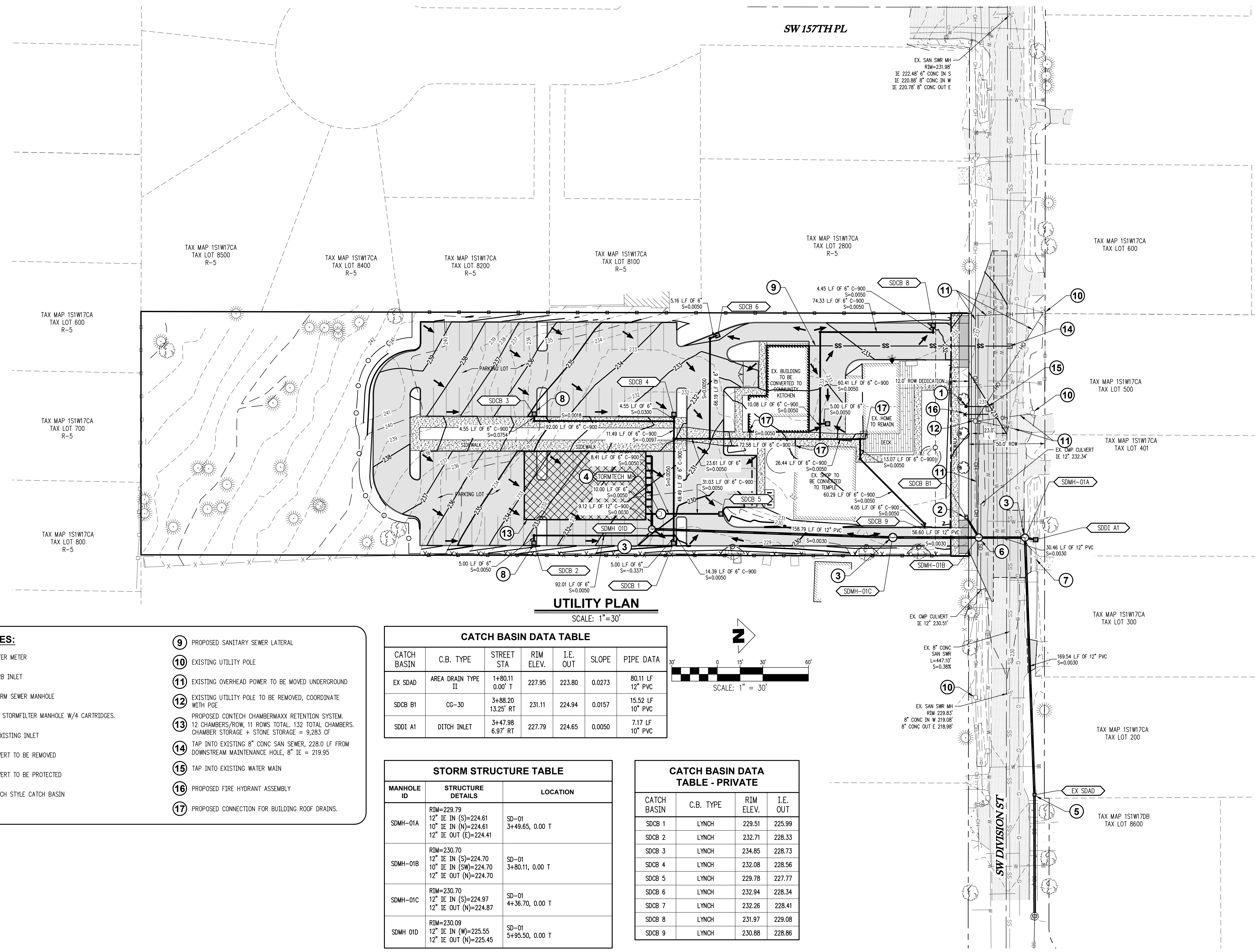
PRELIMINARY SITE PLAN
 SCALE: 1"=30'



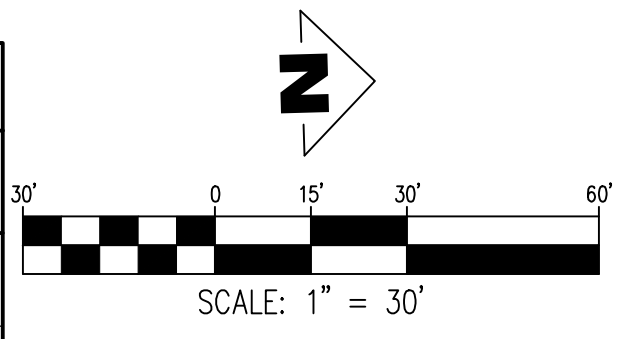
DIVISION STREET - TYPICAL SECTION
 SCALE: 1"=5'

- CONSTRUCTION NOTES:**
- 1 CONSTRUCT MONOLITHIC CURB AND GUTTER. WASHINGTON COUNTY DETAIL 2010
 - 2 CONSTRUCT COMMERCIAL DRIVEWAY APPROACH. WASHINGTON COUNTY DETAIL 1040
 - 3 CONSTRUCT 5.0' SEPARATED SIDEWALK. WASHINGTON COUNTY DETAIL 2110
 - 4 PROPOSED 6' WOOD FENCE
 - 5 CONSTRUCT VERTICAL CURB
 - 6 LANDSCAPE BUFFER
 - 7 PROPOSED SIDEWALK BARRICADE
 - 8 SAWCUT
 - 9 CONSTRUCT 3:1 TAPER
 - 10 PROPOSED PAVEMENT STRIPING
 - 11 PROPOSED STREET TREE
 - 12 TRASH ENCLOSURE
 - 13 BICYCLE PARKING AREA. 2 SHORT TERM AND 3 LONG TERM SPACES. SEE SHEET 09 FOR DETAIL
 - 14 PROPOSED WHEEL STOP

NO.	DATE	DESCRIPTION



UTILITY PLAN
 SCALE: 1"=30'



UTILITY NOTES:

- ① PROPOSED WATER METER
- ② PROPOSED CURB INLET
- ③ PROPOSED STORM SEWER MANHOLE
- ④ PROPOSED 72" STORMFILTER MANHOLE W/4 CARTRIDGES.
- ⑤ CONNECT TO EXISTING INLET
- ⑥ EXISTING CULVERT TO BE REMOVED
- ⑦ EXISTING CULVERT TO BE PROTECTED
- ⑧ PROPOSED LYNCH STYLE CATCH BASIN
- ⑨ PROPOSED SANITARY SEWER LATERAL
- ⑩ EXISTING UTILITY POLE
- ⑪ EXISTING OVERHEAD POWER TO BE MOVED UNDERGROUND
- ⑫ EXISTING UTILITY POLE TO BE REMOVED, COORDINATE WITH PGE
- ⑬ PROPOSED CONTECH CHAMBERMAXX RETENTION SYSTEM, 12 CHAMBERS/ROW, 11 ROWS TOTAL. 132 TOTAL CHAMBERS. CHAMBER STORAGE + STONE STORAGE = 9,283 CF
- ⑭ TAP INTO EXISTING 8" CONC SAN SEWER, 228.0 LF FROM DOWNSTREAM MAINTENANCE HOLE, 8" IE = 219.95
- ⑮ TAP INTO EXISTING WATER MAIN
- ⑯ PROPOSED FIRE HYDRANT ASSEMBLY
- ⑰ PROPOSED CONNECTION FOR BUILDING ROOF DRAINS.

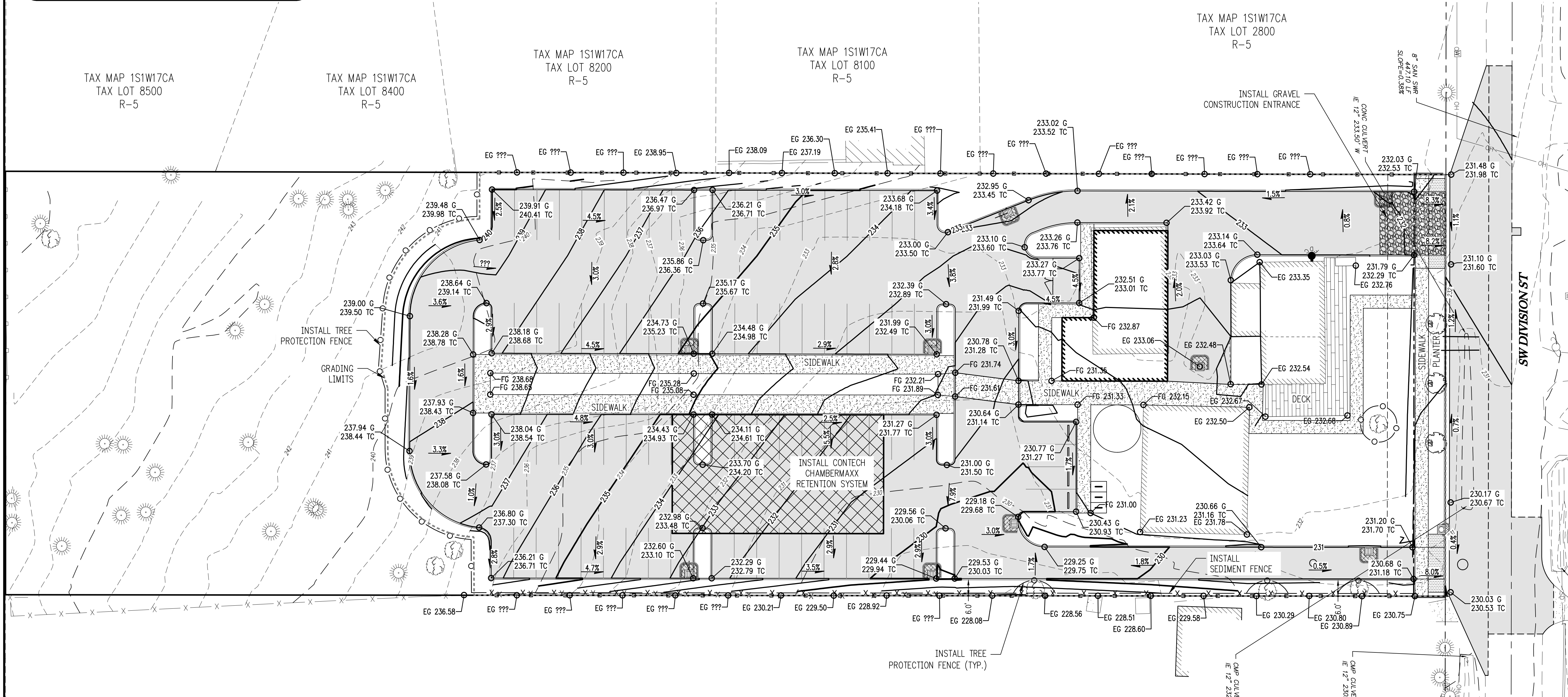
CATCH BASIN DATA TABLE						
CATCH BASIN	C.B. TYPE	STREET STA	RIM ELEV.	I.E. OUT	SLOPE	PIPE DATA
EX SDAD	AREA DRAIN TYPE II	1+80.11 0.00' T	227.95	223.80	0.0273	80.11 LF 12" PVC
SDCB B1	CG-30	3+88.20 13.25' RT	231.11	224.94	0.0157	15.52 LF 10" PVC
SDDI A1	DITCH INLET	3+47.98 6.97' RT	227.79	224.65	0.0050	7.17 LF 10" PVC

STORM STRUCTURE TABLE		
MANHOLE ID	STRUCTURE DETAILS	LOCATION
SDMH-01A	RIM=229.79 12" IE IN (S)=224.61 10" IE IN (N)=224.61 12" IE OUT (E)=224.41	SD-01 3+49.65, 0.00 T
SDMH-01B	RIM=230.70 12" IE IN (S)=224.70 10" IE IN (SW)=224.70 12" IE OUT (N)=224.70	SD-01 3+80.11, 0.00 T
SDMH-01C	RIM=230.70 12" IE IN (S)=224.97 12" IE OUT (N)=224.87	SD-01 4+36.70, 0.00 T
SDMH 01D	RIM=230.09 12" IE IN (W)=225.55 12" IE OUT (N)=225.45	SD-01 5+95.50, 0.00 T

CATCH BASIN DATA TABLE - PRIVATE			
CATCH BASIN	C.B. TYPE	RIM ELEV.	I.E. OUT
SDCB 1	LYNCH	229.51	225.99
SDCB 2	LYNCH	232.71	228.33
SDCB 3	LYNCH	234.85	228.73
SDCB 4	LYNCH	232.08	228.56
SDCB 5	LYNCH	229.78	227.77
SDCB 6	LYNCH	232.94	228.34
SDCB 7	LYNCH	232.26	228.41
SDCB 8	LYNCH	231.97	229.08
SDCB 9	LYNCH	230.88	228.86

LEGEND

- 199 --- EXISTING 1' CONTOUR LINE
- 200 --- EXISTING 5' CONTOUR LINE
- X-X- SEDIMENT FENCE
- O-O- TREE PROTECTION FENCE
- LIMITS OF CONSTRUCTION
- GRAVEL CONSTRUCTION ENTRANCE
- INLET PROTECTION



PLANNING PLAN SET
DESIGN REVIEW SUBMITTAL
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TAX MAP 1S1W 17CA, TL 02900
CITY OF BEAVERTON, OREGON

PRELIMINARY GRADING & EROSION CONTROL PLAN

REVISIONS	
NO.	DATE

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 BEAVERTON, OREGON 97008
 TEL: (503) 746-8812
 FAX: (503) 639-9592
 www.emeriodesign.com

PRELIMINARY

SHEET
05
 OF
09

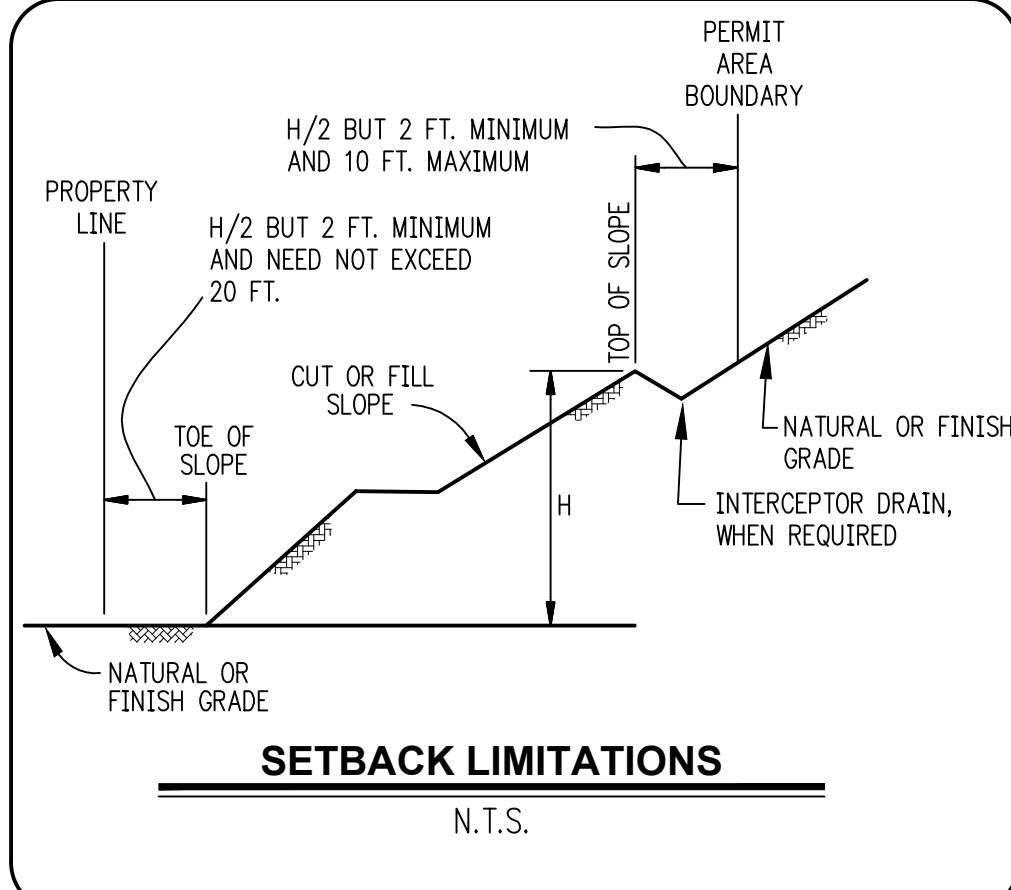
MINIMUM FFE SHOWN HERE WAS DETERMINED BY MINIMUM LOT GRADING SLOPE OF 2% WITH AN ELEVATION AT LEAST 3 FEET ABOVE THE HIGH WATER ELEVATION OF THE WATER QUALITY FACILITY (3' + 228.45' = 231.45')

 FOR ACTUAL FINISH FLOOR ELEVATIONS REFER TO BUILDING/ARCHITECTURAL PLANS

EARTHWORK SUMMARY

	VOLUME IN CY
CUT	655
FILL	850
NET (EXPORT)	195

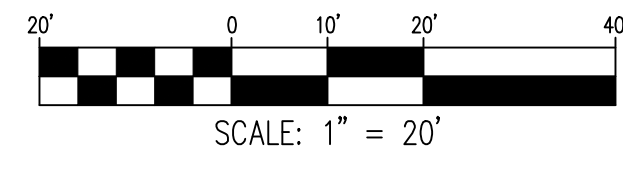
NOTE: STRIPPINGS AND TRENCH SPOILS ARE NOT INCLUDED IN THIS CALCULATION, CONTRACTOR SHALL INDEPENDENTLY VERIFY VOLUMES.

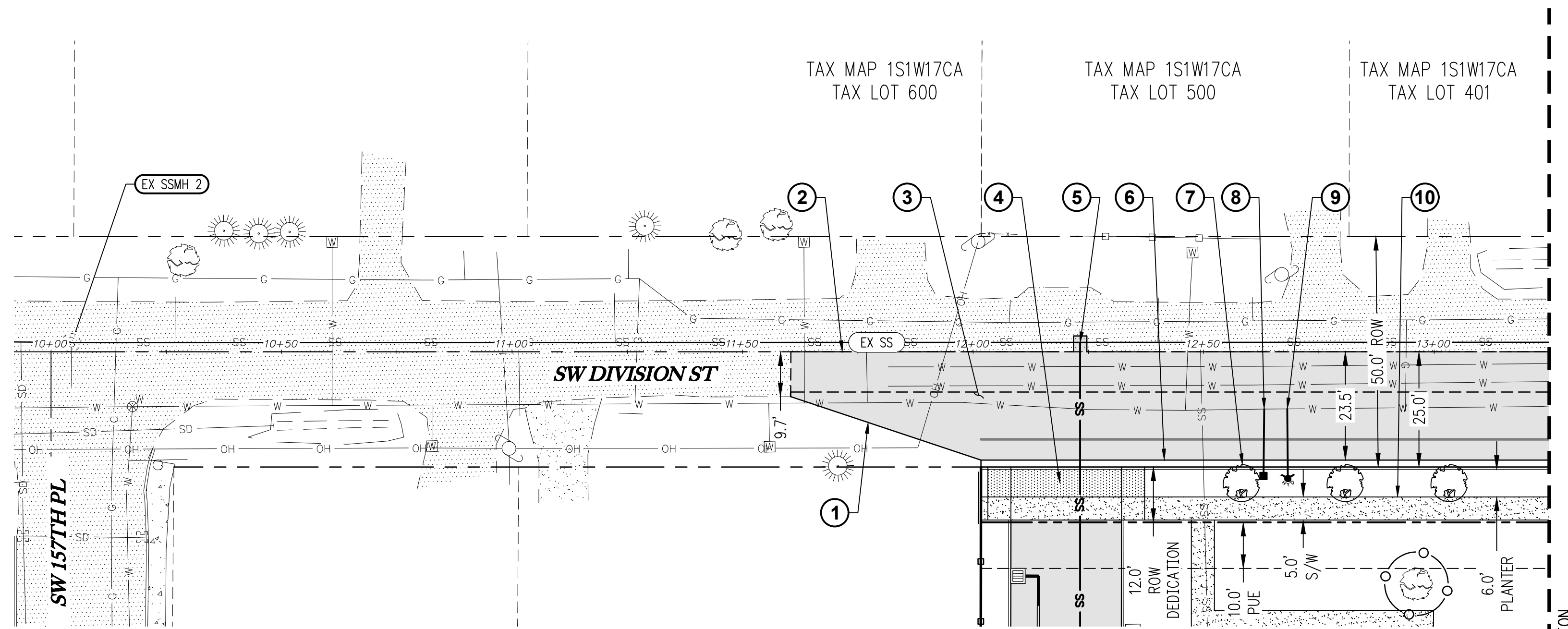


TAX MAP 1S1W17CA
 TAX LOT 3000
 R-5

PRELIMINARY GRADING PLAN

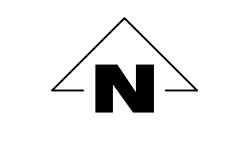
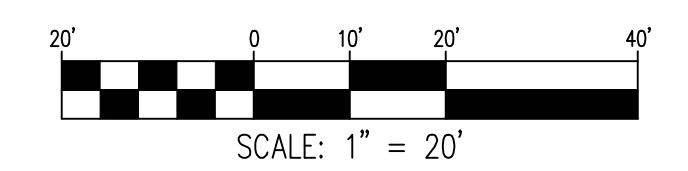
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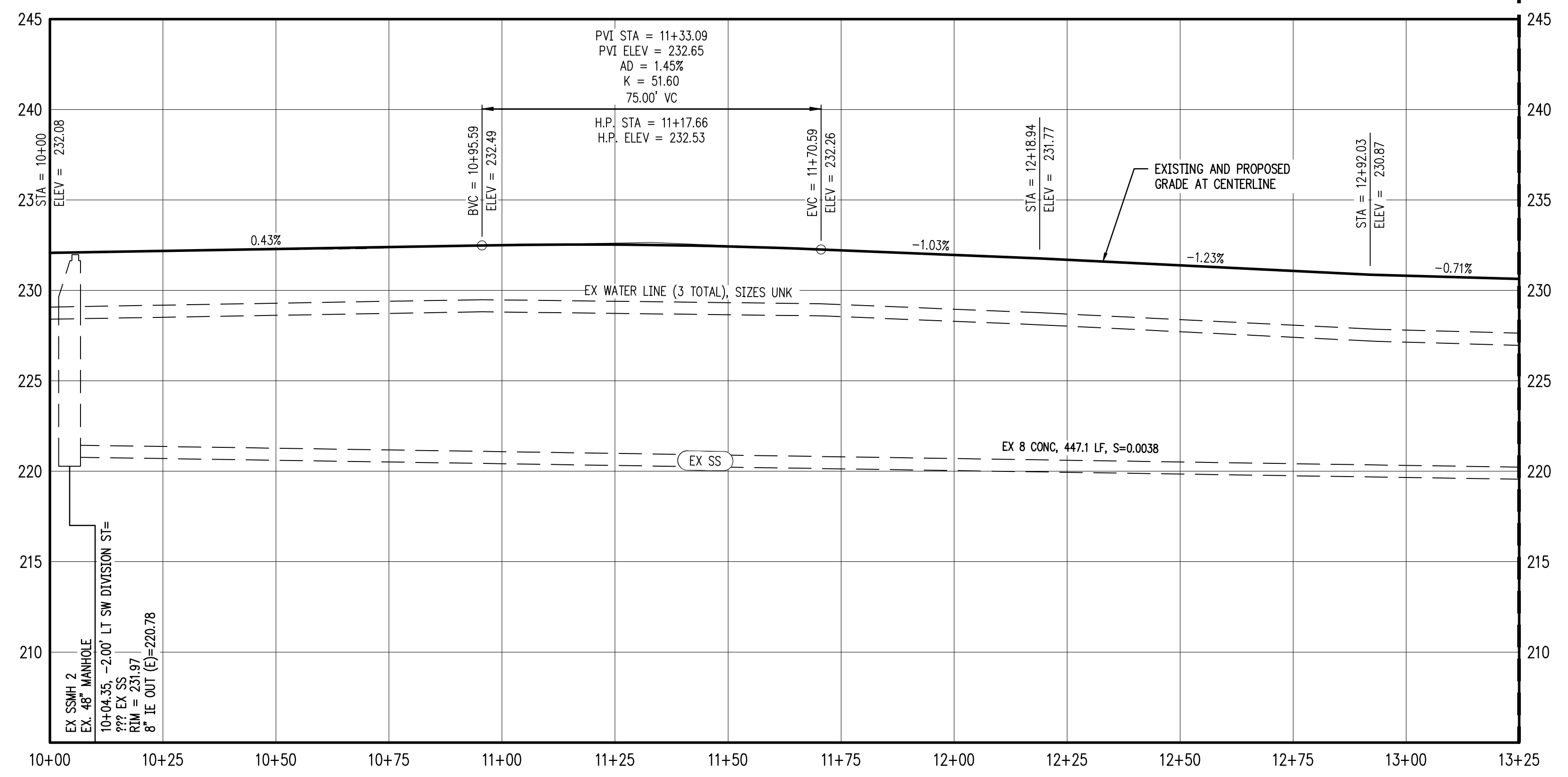
SW DIVISIONS ST & SD-01 STA 10+00 TO 13+25 - PLAN

SCALE: 1"=20'



MATCH LINE: STA. 13+25
SEE SH. 07 FOR CONTINUATION

- UTILITY NOTES:**
- ① 3:1 TAPPER 41.26 FEET
 - ② PROPOSED SAWCUT LINE
 - ③ PROPOSED ASPHALT. SEE TYPICAL SECTION SHEET 03
 - ④ PROPOSED COMMERCIAL DRIVEWAY
 - ⑤ PROPOSED SANITARY LATERAL
 - ⑥ PROPOSED CURB AND GUTTER
 - ⑦ PROPOSED STREET TREE
 - ⑧ PROPOSED WATER METER AND SERVICE LINE. TWWD TO DETERMINE WHICH LINE TO TAP
 - ⑨ PROPOSED FIRE HYDRANT ASSEMBLY. TWWD TO DETERMINE WHICH LINE TO TAP
 - ⑩ PROPOSED SIDEWALK



SW DIVISIONS ST & SD-01 STA 10+00 TO 13+25 - PROFILE

SCALE: 1"=20' H, 1"=5' V

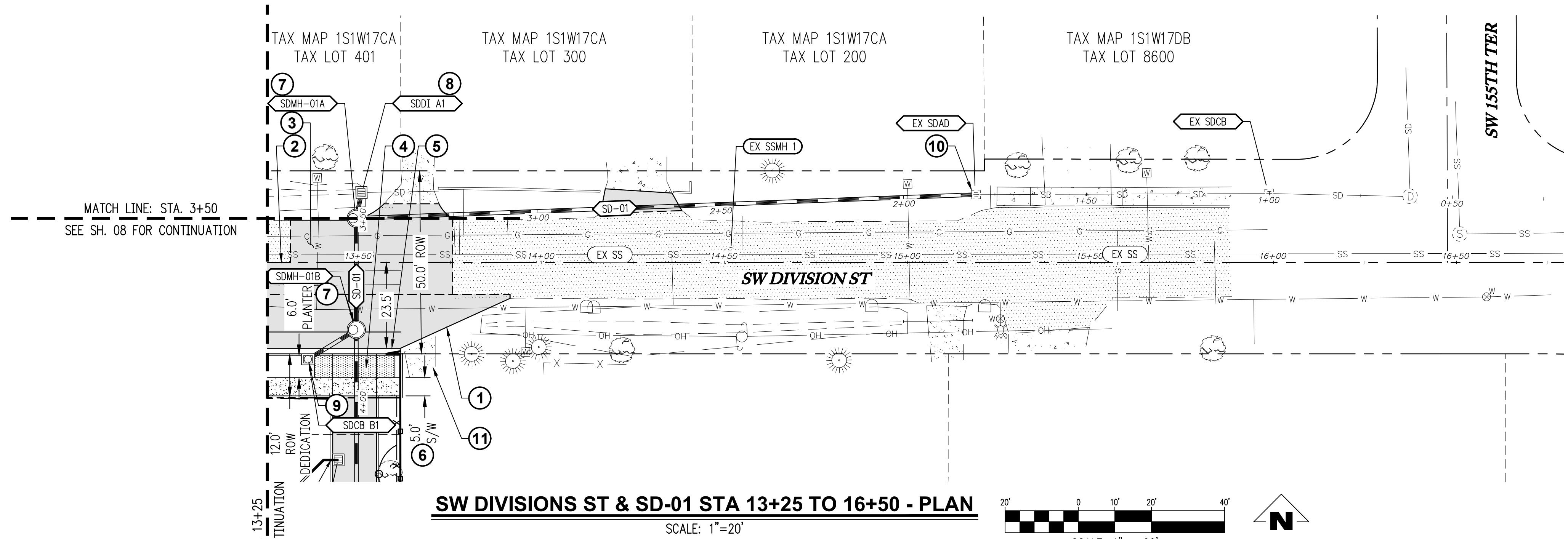
PLANNING PLAN SET
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SW DIVISIONS ST & SD-01
STA 10+00 TO 13+25 - PLAN
& PROFILE

REVISIONS	
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6445 SW CALLEBROOK PLACE, SUITE 100
BEAVERTON, OREGON 97008
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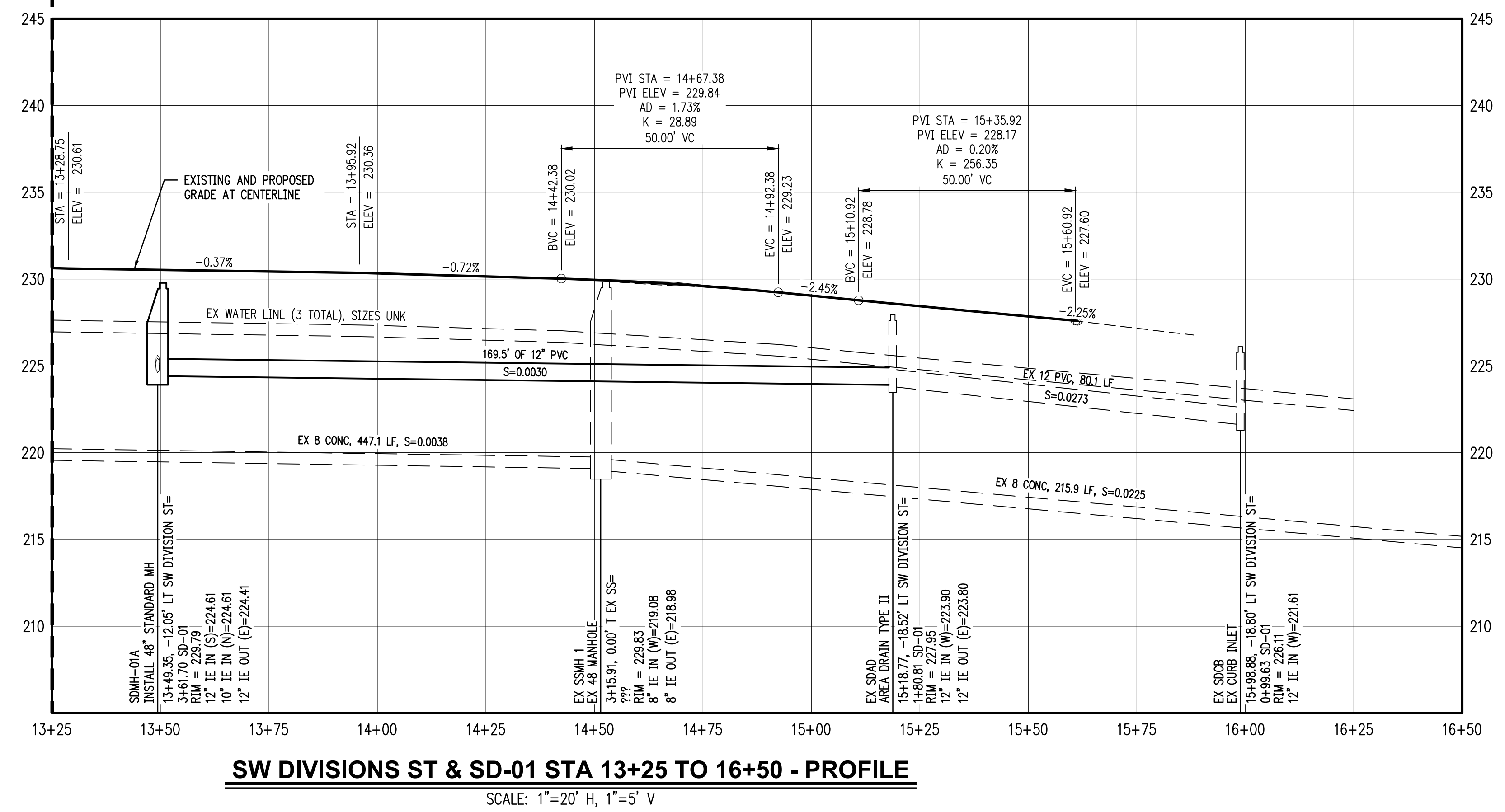
PRELIMINARY



SW DIVISIONS ST & SD-01 STA 13+25 TO 16+50 - PLAN
SCALE: 1"=20'

- UTILITY NOTES:**
- ① 3:1 TAPPER 30.00 FEET
 - ② PROPOSED SAWCUT LINE
 - ③ PROPOSED ASPHALT. SEE TYPICAL SECTION SHEET 03
 - ④ PROPOSED COMMERCIAL DRIVEWAY
 - ⑤ PROPOSED CURB AND GUTTER
 - ⑥ PROPOSED SIDEWALK
 - ⑦ PROPOSED STANDARD MANHOLE
 - ⑧ PROPOSED DITCH INLET
 - ⑨ PROPOSED CURB INLET
 - ⑩ PROPOSED CONNECTION TO EXISTING AREA DRAIN.
 - ⑪ EXISTING DRIVEWAY TO REMAIN ACCESSIBLE THROUGHOUT CONSTRUCTION.

CATCH BASIN DATA TABLE						
CATCH BASIN	C.B. TYPE	STREET STA	RIM ELEV.	I.E. OUT	SLOPE	PIPE DATA
EX SDAD	AREA DRAIN TYPE II	1+80.11 0.00' T	227.95	223.80	0.0273	80.11 LF 12" PVC
SDCB B1	CG-30	3+88.20 13.25' RT	231.11	224.94	0.0157	15.52 LF 10" PVC
SDDI A1	DITCH INLET	3+47.98 6.97' RT	227.79	224.65	0.0050	7.17 LF 10" PVC



SW DIVISIONS ST & SD-01 STA 13+25 TO 16+50 - PROFILE
SCALE: 1"=20' H, 1"=5' V

PLANNING PLAN SET
DESIGN REVIEW SUBMITTAL
FOR THE SIKH CENTER OF OREGON
TAX MAP 1S1W 17CA, TL 02900
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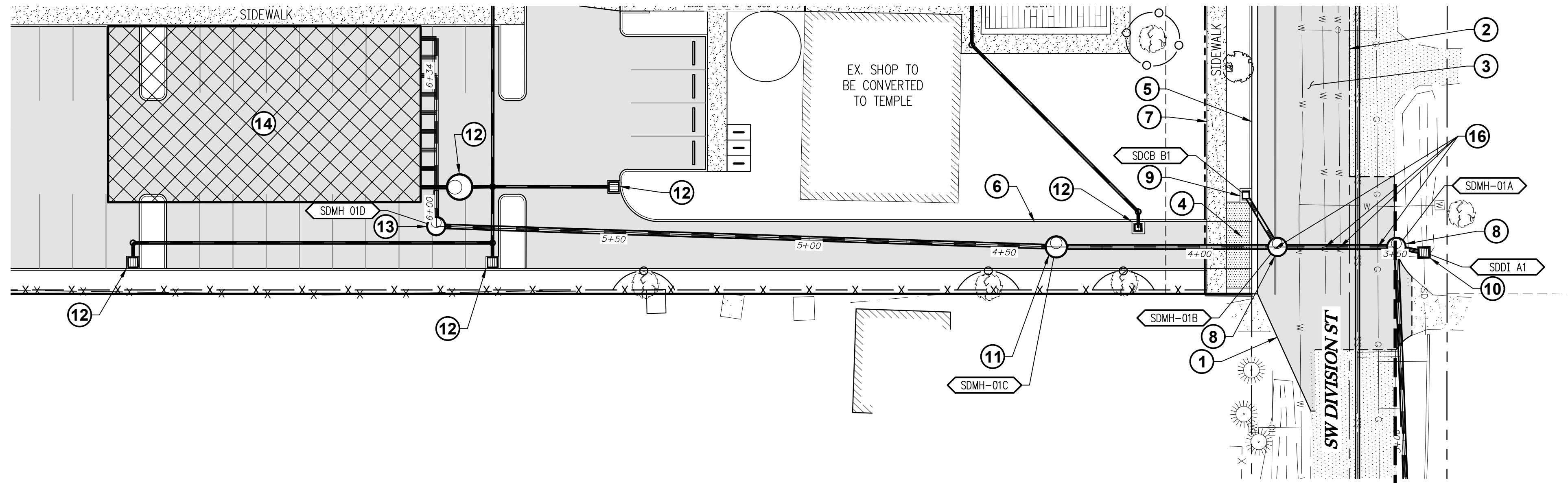
SW DIVISIONS ST & SD-01
STA 13+25 TO 16+50 - PLAN
& PROFILE

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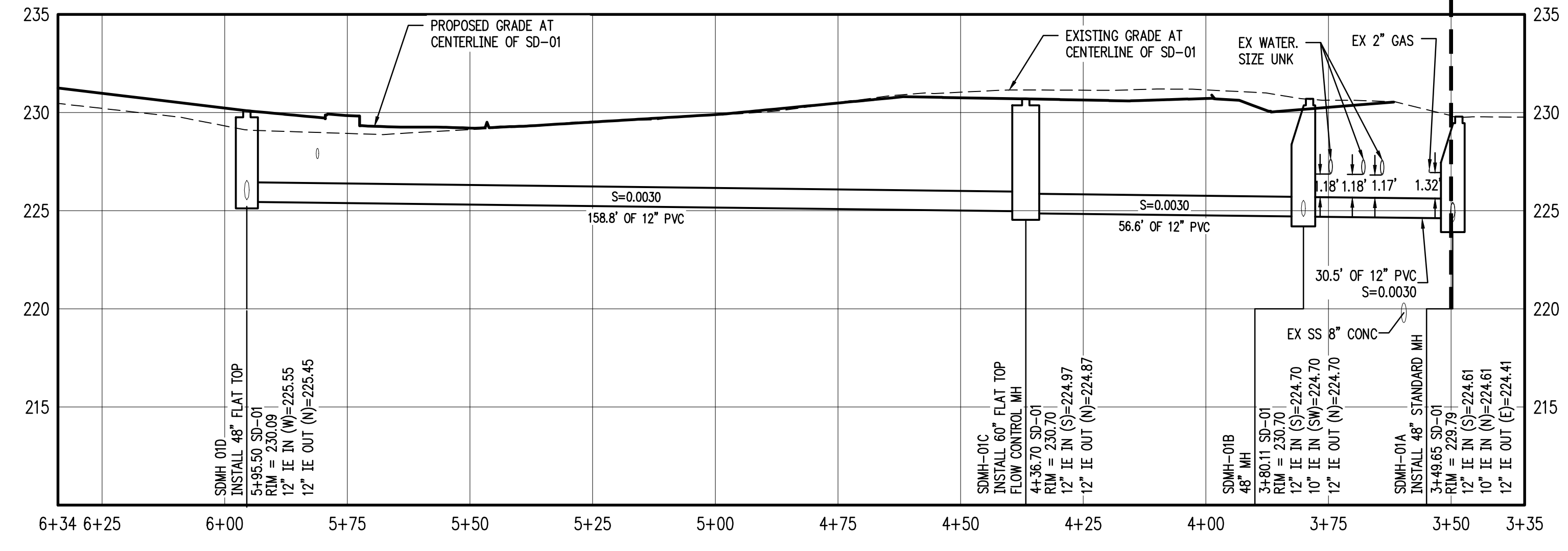
PRELIMINARY

FILE: P:\2039-001 Beaverton Sikh Temple (dwg) from 2039-001_07_Division-SD-01_P&P_Layout: 07 SW DIVISIONS ST & SD-01 STA 13+25 TO 16+50 - PLAN & PROFILE, Plot Date: 3/29/2024 8:05 AM, by: David Burnett



SD-01 STA: 3+50 TO 5+95.50 - PLAN
 SCALE: 1"=20'

- UTILITY NOTES:**
- ① 3:1 TAPPER 30.00 FEET
 - ② PROPOSED SAWCUT LINE
 - ③ PROPOSED ASPHALT. SEE TYPICAL SECTION SHEET 03
 - ④ PROPOSED COMMERCIAL DRIVEWAY
 - ⑤ PROPOSED CURB AND GUTTER
 - ⑥ PROPOSED VERTICAL CURB
 - ⑦ PROPOSED SIDEWALK
 - ⑧ PROPOSED STANDARD MANHOLE (PUBLIC)
 - ⑨ PROPOSED CURB INLET (PUBLIC)
 - ⑩ PROPOSED DITCH INLET (PUBLIC)
 - ⑪ PROPOSED 60" FLAT TOP FLOW CONTROL MANHOLE (PRIVATE)
 - ⑫ PROPOSED CATCH BASIN (PRIVATE)
 - ⑬ PROPOSED STANDARD MANHOLE (PRIVATE)
 - ⑭ PROPOSED CONTECH CHAMBERMAXX RETENTION SYSTEM (PRIVATE).
12 CHAMBERS/ROW, 11 ROWS TOTAL. 132 TOTAL CHAMBERS.
CHAMBER STORAGE + STONE STORAGE = 9,283 CF
 - ⑮ PROPOSED 72" STORMFILTER MANHOLE W/4 CARTRIDGES. (PRIVATE)
 - ⑯ UTILITY CROSSING. CONTRACTOR TO POTHOLE PRIOR TO CONSTRUCTION. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES.



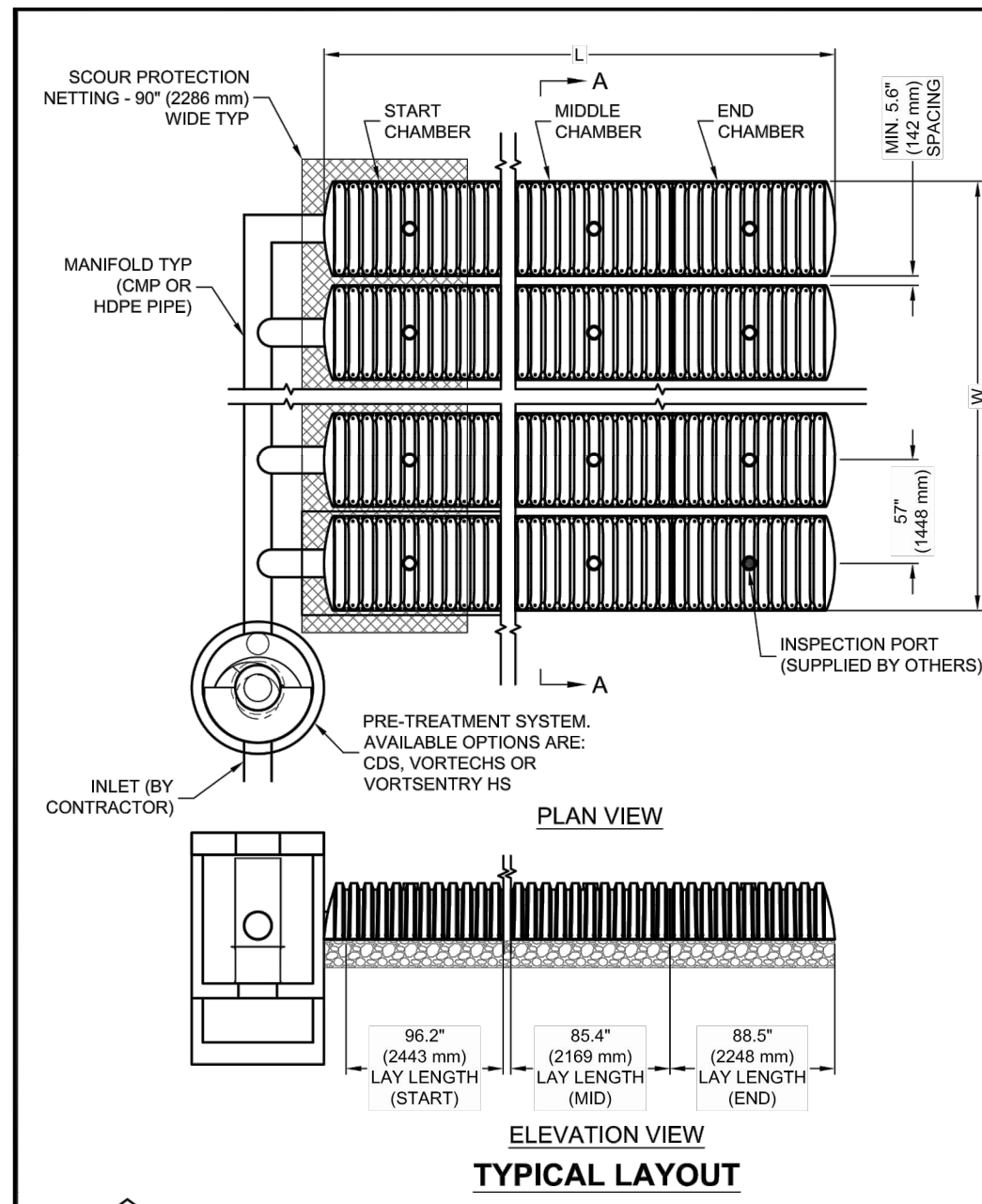
SD-01 STA: 3+50 TO 5+95.50 - PROFILE
 SCALE: 1"=20' H, 1"=5' V

REVISIONS	
NO.	DESCRIPTION

EMERIO
 ENGINEERING • SURVEYING • DESIGN
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PRELIMINARY

FILE: P:\2039-001 Beaverton Sikh Temple (dwg) \plan [2039-01_08_Sd_pdp]. Layout: 08 SD-01 STA 3+50 TO 5+95.50 - PLAN & PROFILE, Plot Date: 3/29/2024 8:10 AM, by: David Burnett

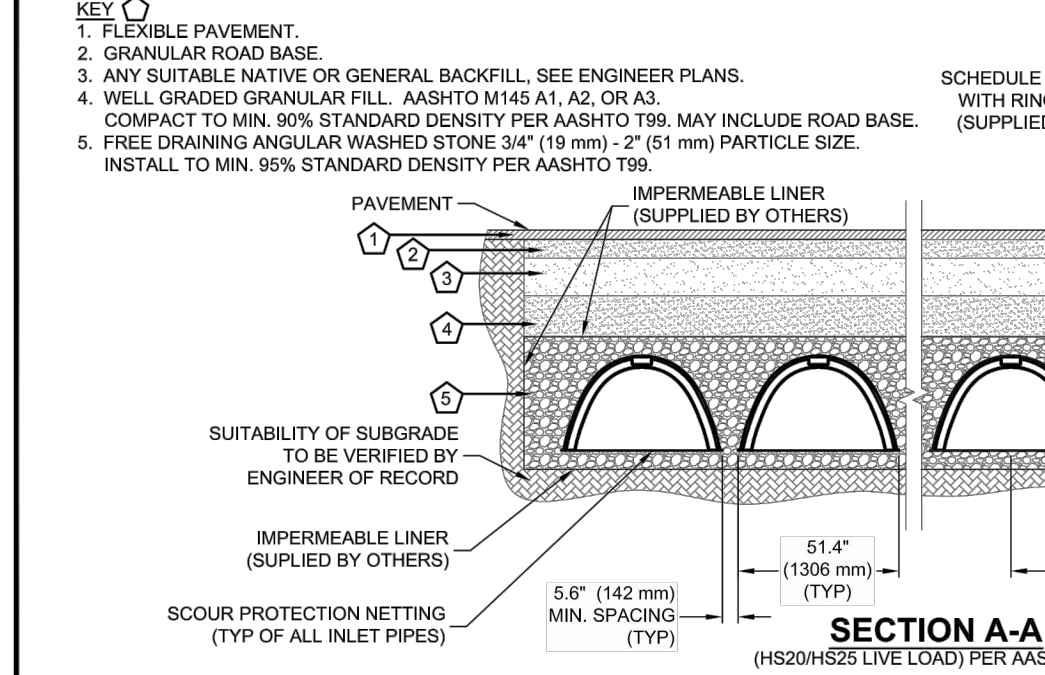


CHAMBERMAXX DESIGN DETAILS

FEATURE	START CHAMBER	MIDDLE CHAMBER	END CHAMBER
OVERALL CHAMBER HEIGHT - IN (mm)	30.3 (770)	30.3 (770)	30.3 (770)
OVERALL CHAMBER WIDTH - IN (mm)	51.4 (1306)	51.4 (1306)	51.4 (1306)
ACTUAL LENGTH - IN (mm)	96.4 (2500)	91.0 (2311)	92.0 (2337)
INSTALLED LAY LENGTHS - IN (mm)	96.2 (2443)	85.4 (2169)	88.5 (2248)
CHAMBER STORAGE VOLUME - CF (m³)	50.2 (1,421)	47.2 (1,336)	46.2 (1,307)
CHAMBER STORAGE PER LINEAR FOOT - CF/LF (m³/m)	6.3 (0.582)	6.6 (0.616)	6.3 (0.582)
*INSTALLED CHAMBER VOLUME - CF (m³)	78.1 (2,211)	75.1 (2,127)	74.1 (2,098)
*INSTALLED CHAMBER VOLUME PER LINEAR FOOT - CF/LF (m³/m)	9.7 (0.905)	10.6 (0.981)	10.0 (0.934)
CHAMBER WEIGHT - LB (kg)	83 (37.65)	73 (33.11)	76 (34.47)

* SITE SPECIFIC DATA REQUIREMENTS

TOTAL REQUIRED STORAGE VOLUME (CF OR m³)	
DEPTH TO INVERT BELOW ASPHALT (FT OR m)	
LIMITING WIDTH (FT OR m)	
LIMITING LENGTH (FT OR m)	
POROUS STONE ABOVE CHAMBER (IN OR mm)	
POROUS STONE BELOW CHAMBER (IN OR mm)	
STONE POROSITY (0 TO 40%)	
MANIFOLD SYSTEM DIAMETER (IN OR mm)	
* PER ENGINEER OF RECORD	

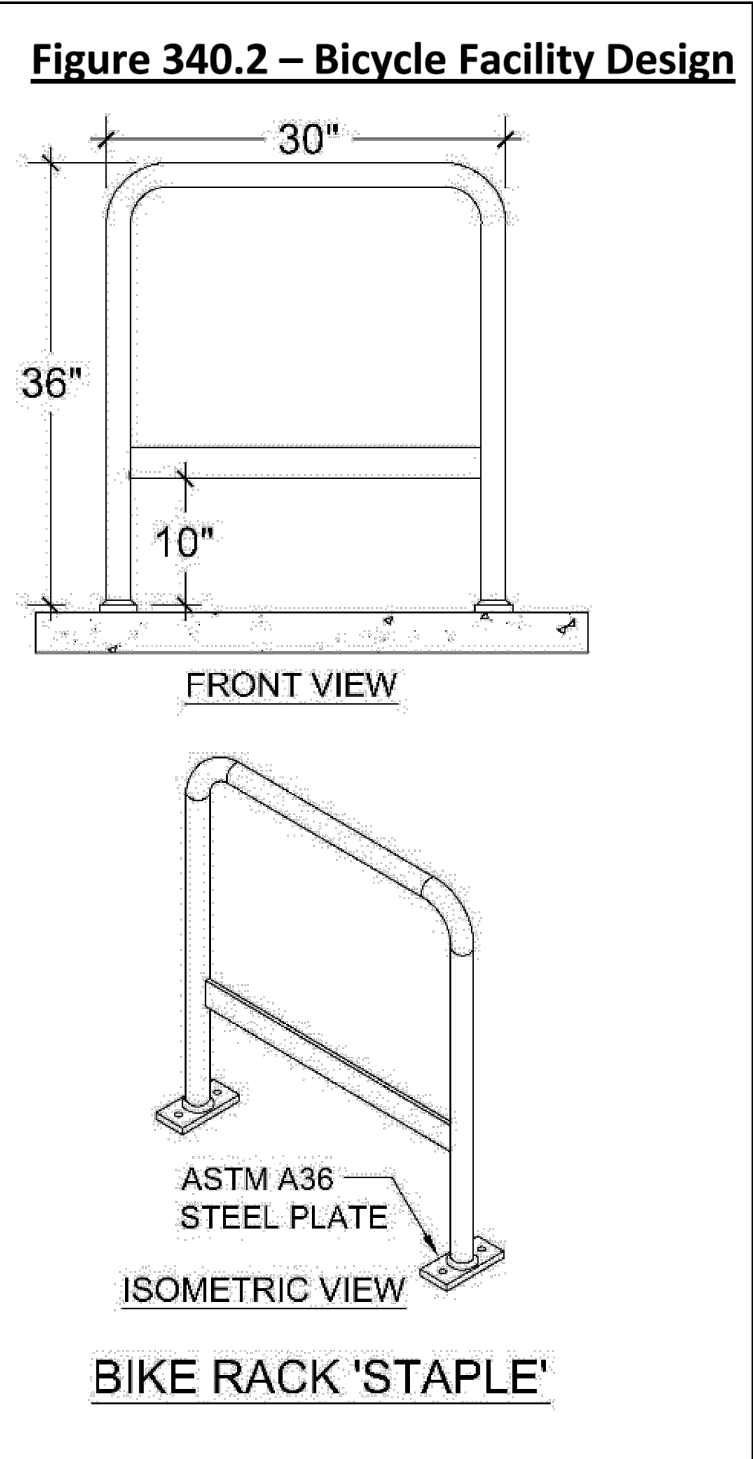
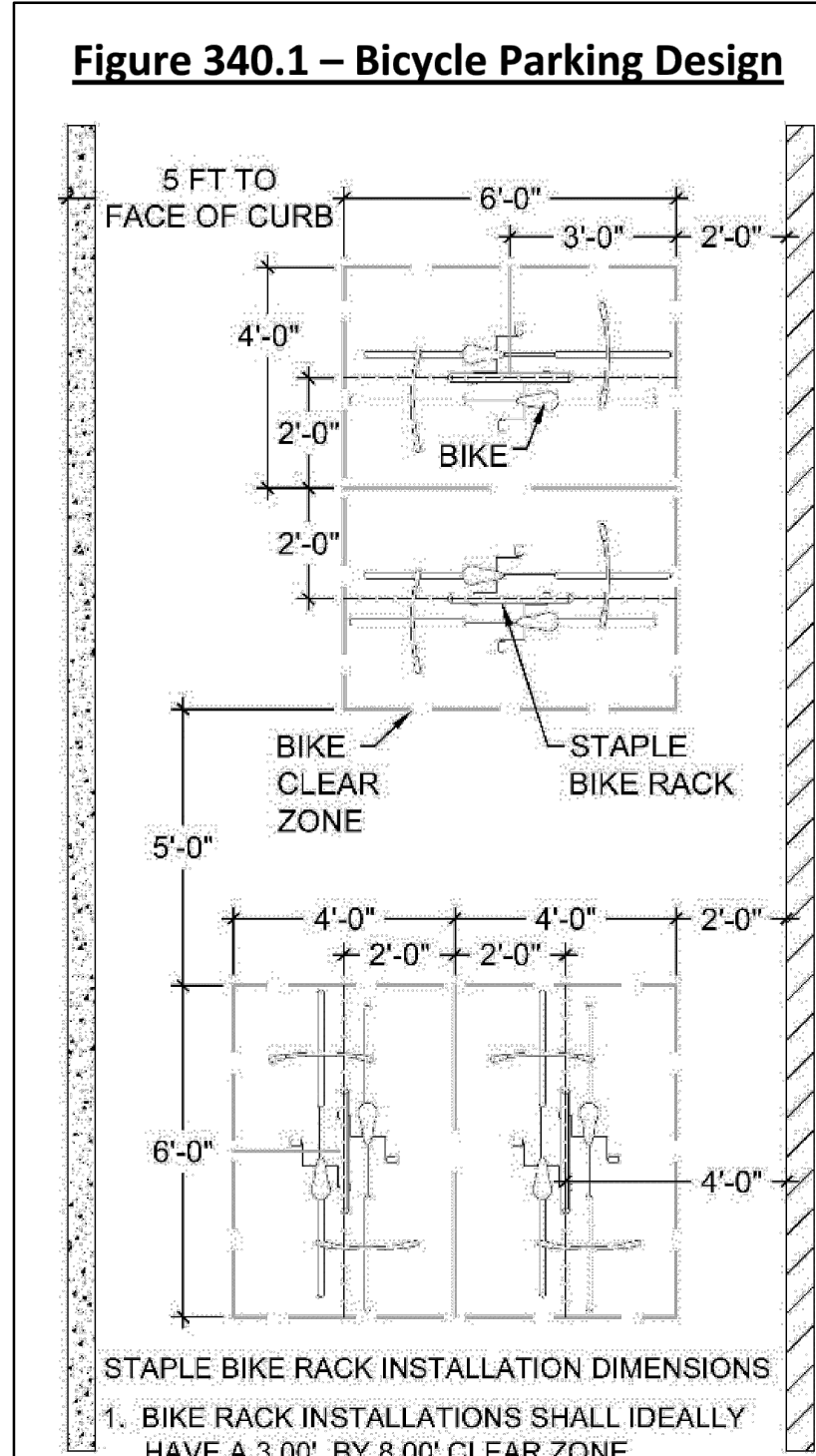


- #### GENERAL NOTES
- ALL ELEVATIONS, DIMENSIONS AND LOCATIONS OF RISERS AND INLETS SHALL BE VERIFIED BY THE ENGINEER OF RECORD.
 - PRIOR TO INSTALLATION OF THE CHAMBERMAXX SYSTEM A PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED. THOSE REQUIRED TO ATTEND ARE THE SUPPLIER OF THE SYSTEM, THE GENERAL CONTRACTOR, SUB-CONTRACTORS AND THE ENGINEER.
 - CHAMBERMAXX CHAMBERS ARE MANUFACTURED FROM POLYPROPYLENE PLASTIC.
 - CHAMBERMAXX SYSTEM TO MEET AASHTO HS20/HS25 LIVE LOADING, PER AASHTO LRFD SECTION 12.
 - ACCESS COVERS TO MEET AASHTO HS20/HS25 LIVE LOADING.
 - MINIMUM COVER IS 18-INCHES (457 mm) AND MAXIMUM COVER IS 96-INCHES (2438 mm) TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR COVER HEIGHTS GREATER THAN 96-INCHES (2438 mm) CONTACT YOUR LOCAL REPRESENTATIVE.
 - ALL PARTS PROVIDED BY CONTECH UNLESS OTHERWISE NOTED.
 - FOR INFORMATION ON PRE-TREATMENT SYSTEMS, REFERENCE CONTECH PRE-TREATMENT SYSTEM STANDARD DETAILS OR CONTACT YOUR LOCAL REPRESENTATIVE.
 - CHAMBERMAXX BY CONTECH ENGINEERED SOLUTIONS, LLC.

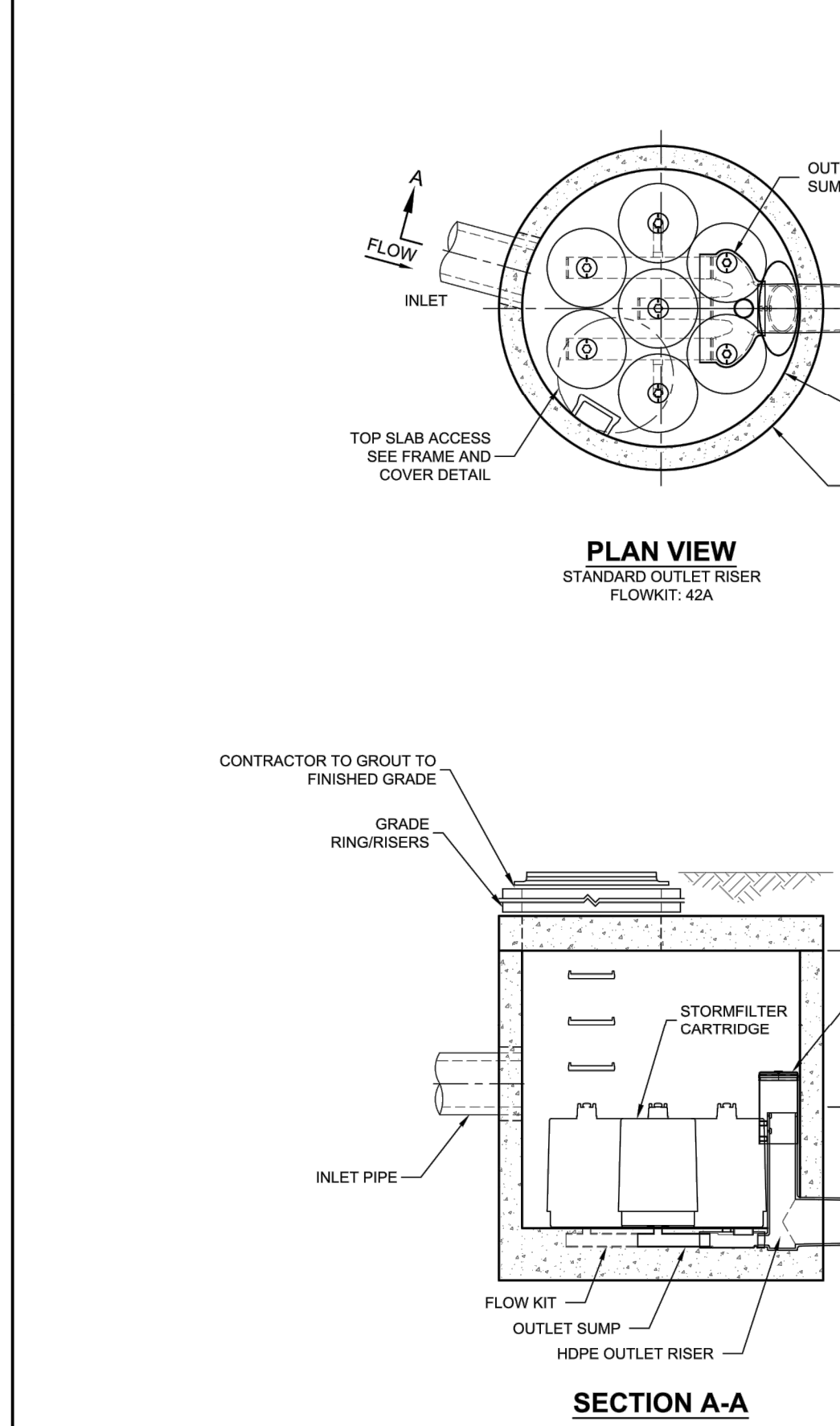
- #### INSTALLATION NOTES
- CHAMBERMAXX INSTALLATION GUIDE TO BE REVIEWED BY CONTRACTOR PRIOR TO INSTALLATION.
 - PRIOR TO PLACING BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, A GEOGRID SHALL BE UTILIZED OR UNSUITABLE MATERIAL SHALL BE REMOVED AND BROUGHT BACK TO GRADE WITH FILL MATERIAL AS APPROVED BY THE ENGINEER OF RECORD. ONCE THE FOUNDATION PREPARATION IS COMPLETE, THE BEDDING MATERIAL CAN BE PLACED.
 - THE SCOUR PROTECTION NETTING TO EXTEND 1'-0" (305 mm) BEYOND OUTSIDE EDGE OF INLET CHAMBERS.
 - COVER ANY OPEN VOID SPACES GREATER THAN 3/4" (19 mm) ON CHAMBERS WITH A NON-WOVEN GEOTEXTILE TO PREVENT INFILTRATION OF BACKFILL MATERIAL.
 - STONE EMBEDMENT MATERIAL SHALL BE INSTALLED TO 95% STANDARD PROCTOR DENSITY AND PLACED IN 6-INCH (152 mm) TO 8-INCH (203 mm) LIFTS SUCH THAT THERE IS NO MORE THAN A TWO LIFT DIFFERENTIAL BETWEEN ANY OF THE CHAMBERS AT ANY TIME. GRANULAR BACKFILL MATERIAL SHALL BE COMPACTED TO 90% SPD. BACKFILLING SHALL BE ADVANCED ALONG THE LENGTH OF THE CHAMBER ROWS AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING AND DISPLACEMENT OF THE CHAMBERS. THE MINIMUM CHAMBER SPACING MUST BE MAINTAINED.
 - REFER TO CHAMBERMAXX INSTALLATION GUIDE FOR TEMPORARY CONSTRUCTION LOADING GUIDELINES.
 - IT IS ALWAYS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.
 - GENERAL INSTALLATION METHODS AND MATERIALS TO BE IN ACCORDANCE WITH ASTM D2321.

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CHAMBERMAXX STORMWATER DETENTION WITH LINER SYSTEM STANDARD DETAIL PRE-TREATMENT STRUCTURE OPTION



- #### STAPLE BIKE RACK INSTALLATION DIMENSIONS
- BIKE RACK INSTALLATIONS SHALL IDEALLY HAVE A 3.00' BY 8.00' CLEAR ZONE SURROUNDING EACH INDIVIDUAL RACK. THE MINIMUM ALLOWABLE CLEAR ZONE FOR A BIKE RACK IS 2.00' BY 6.00'.
 - WHEN INSTALLING MULTIPLE BIKE RACKS THE SAME GUIDANCE SHOULD BE FOLLOWED WITH A 4.00' IDEAL AND 3.00' MINIMUM SPACING BETWEEN BIKE RACKS.

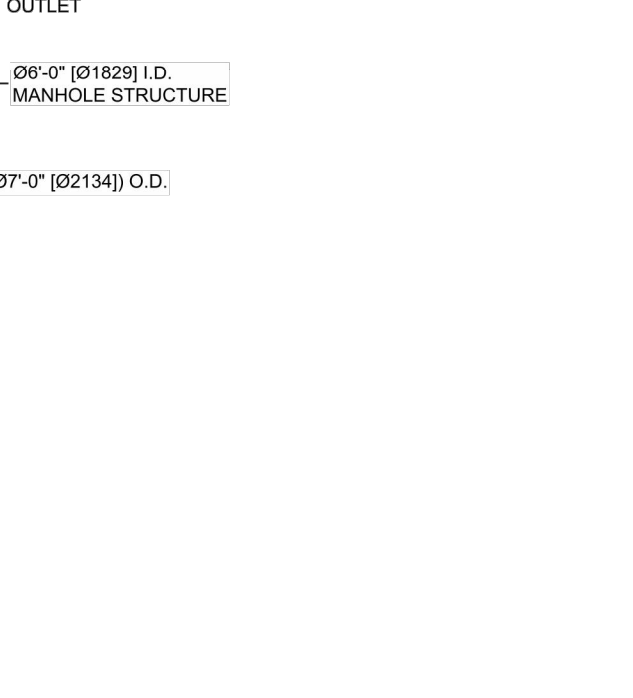


STORMFILTER DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (7). VOLUME SYSTEM IS ALSO AVAILABLE WITH MAXIMUM 7 CARTRIDGES. 06'-0" (1829 mm) MANHOLE STORMFILTER PEAK HYDRAULIC CAPACITY IS 1.5 CFS (42.5 L/s). IF THE SITE CONDITIONS EXCEED 1.5 CFS (42.5 L/s) AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION	27" (686 mm)	18" (458 mm)	LOW DROP
RECOMMENDED HYDRAULIC DROP (H)	3.09' (950 mm)	2.3' (700 mm)	1.8' (550 mm)
SPECIFIC FLOW RATE (gpm/ft²) (L/s/m²)	2.1 (30)	11.67 (1.08)	11.67 (1.08)
CARTRIDGE FLOW RATE (gpm) (L/s)	22.5 (1.42)	18.79 (1.19)	15 (0.95)

* 1.67 gpm/ft² (1.08 L/s/m²) SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY



SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	*		
WATER QUALITY FLOW RATE (cfs) (L/s)	*		
PEAK FLOW RATE (cfs) (L/s)	*		
RETURN PERIOD OF PEAK FLOW (yrs)	*		
CARTRIDGE HEIGHT (SEE TABLE ABOVE)	*		
NUMBER OF CARTRIDGES REQUIRED	*		
CARTRIDGE FLOW RATE	*		
MEDIA TYPE (PERLITE, ZPG, PSORB)	*		
PIPE DATA:			
INLET PIPE #1	I.E.	MATERIAL	DIAMETER
INLET PIPE #2	*	*	*
OUTLET PIPE	*	*	*
RIM ELEVATION	*		
ANTI-FLOTATION BALLAST	WIDTH	HEIGHT	
NOTES/SPECIAL REQUIREMENTS:			
* PER ENGINEER OF RECORD			

- #### GENERAL NOTES
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - DIMENSIONS MARKED WITH (*) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 - FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
 - STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 - STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0'-5" (1524 mm) AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
 - FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES (178 mm). FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 30 SECONDS.
 - SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) (L/s) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft) (m²).
 - STORMFILTER STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.
- #### INSTALLATION NOTES
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE.
 - CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
 - CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET PIPE(S).
 - CONTRACTOR TO PROVIDE AND INSTALL CONNECTOR TO THE OUTLET RISER STUB. STORMFILTER EQUIPPED WITH A DUAL DIAMETER HDPE OUTLET STUB AND SAND COLLAR. IF OUTLET PIPE IS LARGER THAN 8 INCHES (200 mm), CONTRACTOR TO REMOVE THE 8 INCH (200 mm) OUTLET STUB AT MOLDED-IN CUT LINE. COUPLING BY FERRICO OR EQUAL AND PROVIDED BY CONTRACTOR.
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

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SFMH72 STORMFILTER STANDARD DETAIL

PLANNING PLAN SET
DESIGN REVIEW SUBMITTAL
FOR THE SIKH CENTER OF OREGON
TAX MAP 1S1W 17CA, TL 02900
CITY OF BEAVERTON, OREGON

DETAILS

REVISIONS

NO.	DATE	DESCRIPTION

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