PTN. OF NE OF SEC 16, TWP 28 N, R4E W.M.

SURVEY DATA

EXISTING BOUNDARY, TOPOGRAPHIC, AND PLANIMETRIC INFORMATION SHOWN ON THIS PLAN AND OTHERS IN THIS SET WERE USED AS A BASIS FOR DESIGN AND REPRESENT FIELD SURVEY DATA AND MAPPING PREPARED BY MEAD GILMAN LAND SURVEYORS (JOB NO. 17128), AS PROVIDED BY THE PROJECT OWNER, AND DOES NOT REPRESENT WORK BY CPH CONSULTANTS. THE FOLLOWING SURVEY DATA WAS PROVIDED WITH THE TOPOGRAPHIC MAP BY MEAD GILMAN LAND SURVEYORS:

HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATE SYSTEM - NORTH ZONE (NAD 83/2011)

VERTICAL DATUM

NAVD 88 – BASED ON RAPID STATIC GPS MEASUREMENTS WITH BASELINES COMPUTED FROM CORS MONUMENTS

LEGAL DESCRIPTION

PARCEL A

THAT PORTION OF TRACT 134, WEST AND WHEELER'S SEA VIEW TRACTS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 7 OF PLATS, PAGES 12 & 13, RECORDS OF SNOHOMISH COUNTY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF SAID TRACT 134;
THENCE NORTHERLY ALONG THE EAST LINE OF SAID TRACT FOR A DISTANCE OF 150 FEET; THENCE WEST FOR A DISTANCE OF 291 FEET;
THENCE SOUTHERLY FOR A DISTANCE OF 150 FEET;
THENCE EASTERLY FOR A DISTANCE OF 291 FEET TO THE TRUE POINT OF BEGINNING.

PARCEL B

TRACT 135, WEST AND WHEELER'S SEA VIEW TRACTS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 7 OF PLATS, PAGES 12 & 13, RECORDS OF SNOHOMISH COUNTY; SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.

PARCEL C

TRACT 136, WEST AND WHEELER'S SEA VIEW TRACTS, ACCORDING TO THE PLAT THERE OF RECORDED IN VOLUME 7 OF PLATS, PAGES 12 & 13, RECORDS OF SNOHOMISH COUNTY; SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.

NOTES

1. A 5" ELECTRONIC TOTAL STATION WAS USED FOR THIS FIELD TRAVERSE SURVEY. ACCURACY MEETS OR EXCEEDS W.A.C. 332-130-090.
2. ALL TITLE INFORMATION SHOWN ON THIS SURVEY WAS EXTRACTED FROM CHICAGO TITLE COMPANY COMMITMENT NUMBER 500064809, DATED 1, NOVEMBER 2017. MEAD GILMAN AND ASSOCIATES HAS CONDUCTED NO INDEPENDENT TITLE RESEARCH, AND HAS RELIED WHOLLY ON THE TITLE COMPANY'S REPRESENTATIONS OF THE TITLE'S CONDITION TO PREPARE THIS SURVEY AND QUALIFIES THE MAP'S ACCURACY AND COMPLETENESS TO THAT EXTENT.
3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION EXISTING AT THAT TIME. ALL CONTROL INDICATED AS "FOUND" WAS RECOVERED FOR THIS PROJECT IN DECEMBER, 2017, UNLESS OTHERWISE NOTED.
4. UNDERGROUND UTILITIES WERE LOCATED BASED ON SURFACE EVIDENCE (I.E. PAINT MARKS, SAW CUTS IN PAVEMENT, COVERS, LIDS, ETC.). THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, ELEVATION, AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
5. TREE SIZES AND SPECIES WERE DETERMINED TO THE BEST OF OUR ABILITY. MEAD GILMAN AND ASSOCIATES DOES NOT WARRANT THE ACCURACY OF THE SIZE AND SPECIES OF ANY TREES SHOWN HEREON, ALL TREE SIZES SHOULD BE VERIFIED BY A TRAINED ARBORIST.
6. PROPERTY AREA = 413,749± SQUARE FEET/ 9.5 ACRES.
7. ALL DISTANCES ARE IN FEET.

REFERENCES

1. WEST AND WHEELER'S SEA VIEW 5 ACRE TRACTS – RECORDING NO. 0000119951, VOLUME 7, PG 12 & 13.
2. RECORD OF SURVEY FOR WALLACE C. WARD – RECORDING NO. 9005025012, BOOK 31, PG 234 & 235.
3. RECORD OF SURVEY FOR MABEL SEWELL – RECORDING NO. 9706095003, VOLUME 50, PG 21.
4. PLAT OF WESTWOOD LANE – RECORDING NO. 7611080109, VOLUME 36, PG 94 & 95.
5. PLAT OF JOHN GRAHAM ADDITION – RECORDING NO. 1137434, VOLUME 15, PG 52.
6. PLAT FOR MUKILTEO SCHOOL DISTRICT – RECORDING NO. 9006255001, VOLUME 32, PG 74.
7. PLAT OF SMUGGLERS COVE ESTATES – RECORDING NO. 485028, VOLUME 7, PG 12 & 13.
8. BOUNDARY LINE ADJUSTMENT FOR SCOTT FARRAR – RECORDING NO. 9612125005, VOLUME 48, PG 256.

PROJECT INFORMATION

GENERAL

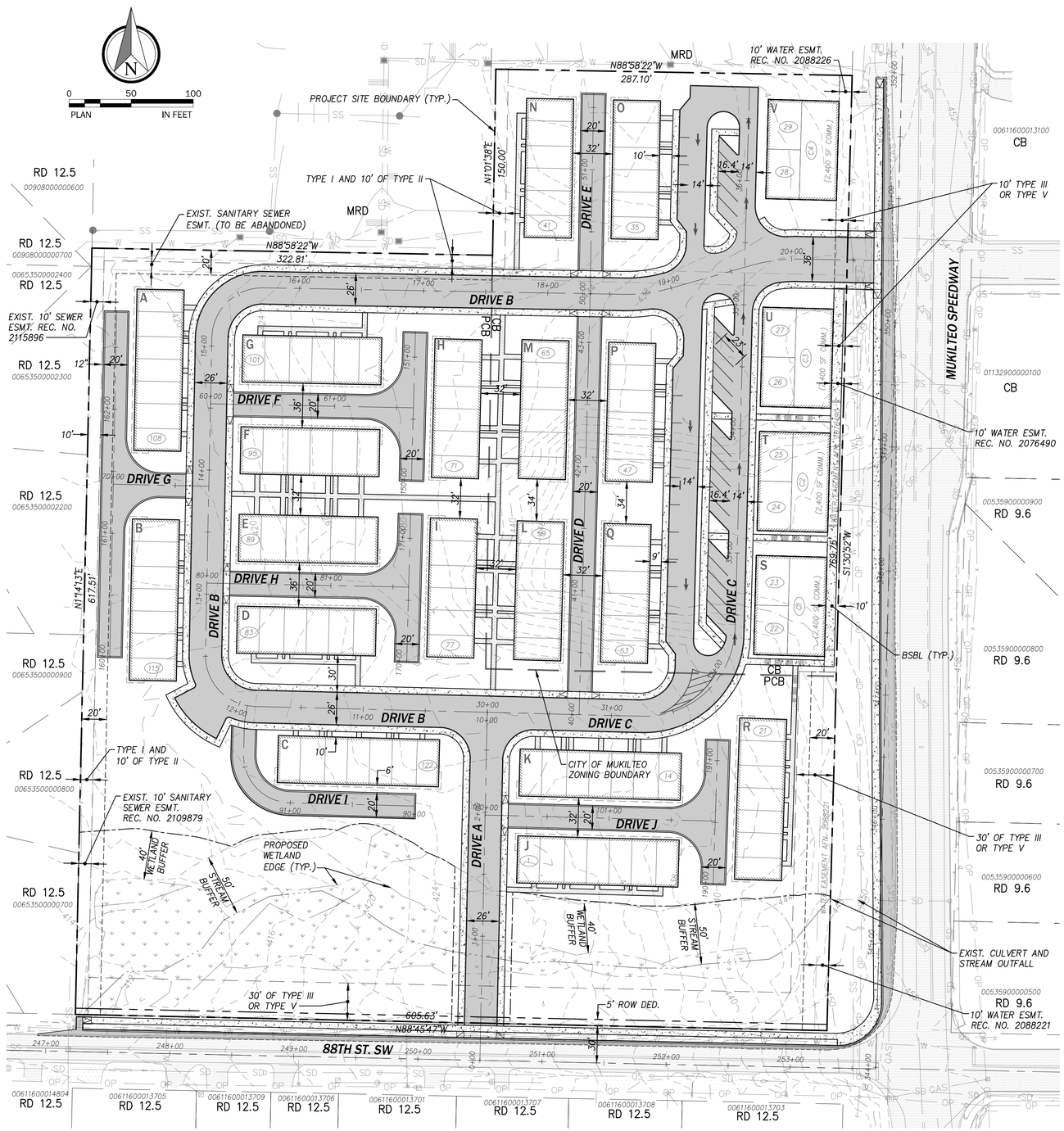
PARCEL NOS.:	00611600013402, 00611600003500, 00611600013600
SITE ADDRESS:	8516, 8616 MUKILTEO SPEEDWAY MUKILTEO, WA 98275
ZONING:	COMMUNITY BUSINESS (CB), PLANNED COMMUNITY BUSINESS (PCB)
PROPOSED USE:	MULTI-FAMILY, COMMERCIAL

SITE DEVELOPMENT

TOTAL SITE AREA:	9.61 AC (418,612 SF)
BASE RESIDENTIAL DENSITY:	13 DU/AC
ALLOWABLE RESIDENTIAL UNITS:	9.61 AC x 13 DU/AC =125 DU
PROPOSED NO. RESIDENTIAL UNITS:	122 DU
PROPOSED NO. COMMERCIAL UNITS:	4
TOTAL COMMERCIAL FLOOR AREA:	9,600 SF
MINIMUM LOT SIZE:	NONE
MAXIMUM LOT SIZE:	418,612 SF
ROW DEDICATION:	3,028 SF
REC & STORM TRACT:	88,403 SF
MIN. TOWNHOUSE BLDG. SETBACKS:	
FRONT	15 FEET
REAR	5 FEET
SIDE	5 FEET
MAX. LOT COVERAGE ALLOWED:	55%
MIN. REQUIRED OPEN SPACE AND RECREATIONA:	83,722 SF = 418,612 x 20%
PROVIDED OPEN SPACE AND RECREATION AREA:	88,403 SF

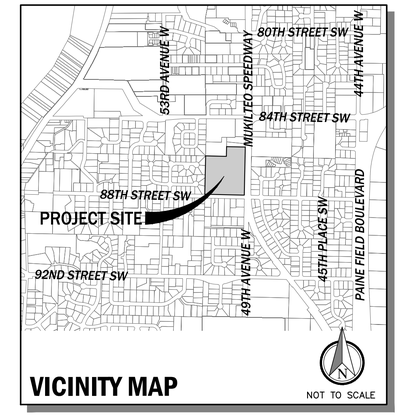
UTILITY PURVEYORS/PUBLIC SERVICES

WATER:	MUKILTEO WATER & WASTEWATER DISTRICT
SANITARY SEWER:	MUKILTEO WATER & WASTEWATER DISTRICT
SCHOOL DISTRICT:	MUKILTEO SCHOOL DISTRICT NO. 6
FIRE DISTRICT:	MUKILTEO FIRE DEPARTMENT
ELECTRIC/LIGHTING:	SNOHOMISH COUNTY PUD NO. 1
NATURAL GAS:	PUGET SOUND ENERGY
COMMUNICATION/CABLE:	COMCAST/XFINITY, ZIPLY



SITE PLAN

SCALE: AS NOTED



VICINITY MAP

DRAWING INDEX

SHEET	DWG.	DESCRIPTION
1	C0.00	COVER SHEET AND PROJECT INFORMATION
2	C0.01	STANDARD ABBREVIATIONS, AND PROJECT NOTES
3	C0.10	EXISTING CONDITIONS
4	C1.00	HORIZONTAL CONTROL PLAN
5	C1.100	TYPICAL ROAD SECTIONS
6	C2.00	TESC PLAN
7	C2.100	TESC DETAILS
8	C3.00	GRADING AND CLEARING PLAN
9	C3.01	GRADING AND CLEARING PLAN
10	C3.02	STORM DRAINAGE PLAN
11	C3.03	STORM DRAINAGE PLAN
12	C3.10	GRADING AND STORM DRAINAGE PROFILES
13	C3.11	GRADING AND STORM DRAINAGE PROFILES
14	C3.12	GRADING AND STORM DRAINAGE PROFILES
15	C3.13	GRADING AND STORM DRAINAGE PROFILES
16	C3.14	SITE SECTIONS
17	C3.20	VAULT DETAIL
18	C3.21	STORM DRAINAGE DETAILS
19	C3.22	CHAMBER DETAILS
20	C3.23	STORMTECH DETAILS
21	C4.00	SANITARY SEWER PLAN
22	C4.01	SANITARY SEWER PLAN
23	C4.02	WATER PLAN
24	C4.03	WATER PLAN
25	C4.10	WATER AND SANITARY SEWER PROFILES
26	C4.11	WATER AND SANITARY SEWER PROFILES
27	C4.12	WATER AND SANITARY SEWER PROFILES
28	C4.13	WATER AND SANITARY SEWER PROFILES
29	C6.00	SOIL MANAGEMENT AND TREE RETENTION PLAN
30	L1.00	LANDSCAPE PLAN
31	L1.01	LANDSCAPE PLAN
32	L1.12	LANDSCAPE DETAILS

PROJECT TEAM

APPLICANT
214-WLD CARRIK COURT, LLC
CONTACT: MELANIE DAVIES
1010 MARKET STREET
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EMAIL: MDAVIES@WESTCOTTHOMES.COM

SURVEYOR
MEAD GILMAN
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TRAFFIC ENGINEER
GIBSON TRAFFIC CONSULTANTS
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GREEN EARTH OPERATIONS
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3201 FIRST AVE. SOUTH, SUITE 212
SEATTLE, WA 98134
(206) 323-1865

CIVIL ENGINEER/PLANNER
CPH CONSULTANTS
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EMAIL: MATT@CPHCONSULTANTS.COM

LANDSCAPE ARCHITECT
CPH CONSULTANTS
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KIRKLAND, WA 98034
PHONE: (425) 285-2390

GEOTECHNICAL ENGINEER
EARTH SOLUTIONS NORTHWEST
CONTACT: KYLE CAMPBELL, PE
15365 NE 90TH STREET, SUITE 100
REDMOND, WA 98052
PHONE: (425) 449-4704

KINDRED HYDRO
CONTACT: J. SCOTT KINDRED, PE
7204 91st AVENUE SE
MERCER ISLAND, WA 98040
PHONE: (206) 660-5417

Received by Email
2022-01-31

CITY OF MUKILTEO

811 Know what's below. Call before you dig.

p:\project\0054\20034\Dwg\Sheets\mixed use commercial land use package\C0.00.dwg
1/30/2022 7:45 PM PETER EVANS

NO.	DATE	REVISION	BY	CK.
1	1/26/22	LAND USE SUBMITTAL	PCE	MJH

MATTHEW J. HOUGH, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER, 1/28/2022

CARRIK COURT

MIXED-USE COMMERCIAL LAND USE PERMIT

COVER SHEET AND PROJECT INFORMATION

CITY OF MUKILTEO — SNOHOMISH COUNTY, WASHINGTON

CLIENT
214-WLD CARRIK COURT, LLC
1010 MARKET STREET
KIRKLAND, WA 98033
PHONE: (425) 576-9390
FAX: (425) 576-9568

C|P|H CONSULTANTS
Site Planning • Civil Engineering
Landscape Architecture • Land Use Consulting
11321-B NE 120th Street
Kirkland, WA 98034 • (425) 285-2390
101 South Wenatchee Avenue, Suite C3
Wenatchee, WA 98801 • (509) 293-7731
www.cphconsultants.com

PROJECT NO. 0054-20-034

DRAWING C0.00

SHEET 1 OF 32

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TBLOCK

PTN. OF NE OF SEC 16, TWP 28 N, R4E W.M.

LEGEND

	EXISTING	PROPOSED
ROADWAY CENTERLINE		
PROJECT BOUNDARY LINE		
PROPERTY BOUNDARY LINE		
RIGHT-OF-WAY LINE		
EASEMENT LINE		
EDGE OF PAVEMENT LINE		
10' CONTOUR LINE	290	
2' CONTOUR LINE		
SANITARY SEWER MAIN	SS	SS SS
WATER LINE	W	
FIRE SUPPLY	F	F F F F F F F
STORM PIPE	SD	
GAS LINE	GAS	GAS
FENCE LINE	X	
POWER LINE	OP	
BURIED POWER LINE	BP	
UTILITY EASEMENT		
TELEPHONE LINE	T	
BURIED TELEPHONE LINE	BT	
SWALE		
SILT FENCE		X X X X X
TEMP. CONSTRUCTION FENCING		O O O
CLEARING LIMIT		
SANITARY SEWER CLEAN OUT		
SANITARY SEWER MANHOLE		
STORM DRAIN CATCH BASIN - TYPE I		
STORM DRAIN CATCH BASIN - TYPE II		
STORM DRAIN INLET (NO CATCH)		
STORM DRAIN CULVERT		
WATER CAP/PLUG		
WATER COUPLING		
GUARD POST		
REDUCER		
THRUST BLOCK		
WATER METER		
2 NOZZLE FIRE HYDRANT		
3 NOZZLE FIRE HYDRANT		
FLANGE/BUND FL JOINT		
MECHANICAL JOINT		
PUSH-ON/HUB JOINT		
THREAD JOINT		
AIR RELIEF VALVE		
BLOW-OFF VALVE		
BUTTERFLY VALVE		
CHECK VALVE		
GATE/GENERAL VALVE		
PLUG VALVE		
GAS METER		
GAS VALVE		
PAD MOUNTED TRANSFORMER		
POWER VAULT	P	P
TRANSMISSION TOWER (SCALEABLE)		
UTILITY POLE		
POWER POLE		
UTILITY POLE ANCHOR		
TELEPHONE RISER		
TELEPHONE VAULT	T	T
BUS STOP	BUS	BUS
MAIL BOX		
RIP RAP		
ROCKERY		
SHRUB		
GENERAL SIGN		
REGULATORY SIGN		
TREE (CONIFER)		
TREE (DECIDUOUS)		
YARD LIGHT		
BRIDGE/TUNNEL		
ASPHALT PAVEMENT		
CONCRETE		

ABBREVIATIONS

AC	ASPHALT CONCRETE PAVEMENT
AP	ANGLE POINT
ATB	ASPHALT TREATED BASE
AVE	AVENUE
BCR	BEGIN CURB RETURN
BOC	BACK OF CURB
BOW	BOTTOM OF WALL
CASP	CRITICAL AREA SITE PLAN
℄	CENTERLINE
CB	CATCH BASIN
CDF	CONTROLLED DENSITY FILL
CMP	CORRUGATED METAL PIPE
COM	CITY OF MUKILTEO
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
CPP	CORRUGATED POLYETHYLENE PIPE (W/SMOOTH INTERIOR WALLS)
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
DIA.	DIAMETER
DI	DUCTILE IRON
DW	DRIVEWAY
E	EAST
ECR	END CURB RETURN
EDDS	ENGINEERING DESIGN AND DEVELOPMENT STANDARDS
EL.	ELEVATION
EOP	EDGE OF PAVEMENT
ESC	EROSION AND SEDIMENT CONTROL
ESD	ENTERING SIGHT DISTANCE
ESMT.	EASEMENT
EVA	EMERGENCY VEHICLE ACCESS
EXIST.	EXISTING
FL	FLOW LINE
FL.	FLANGE
FOC	FACE OF CURB
HORIZ	HORIZONTAL
IE	INVERT ELEVATION
INT	INTERSECTION
LCPE	LINED CORRUGATED POLYETHYLENE PIPE
LF	LINEAL FEET
LT	LEFT
LUI	LAND USE INSPECTOR
MAX.	MAXIMUM
MSE	MECHANICALLY STABILIZED EARTH
MH	MANHOLE
MIN.	MINIMUM
MJ	MECHANICAL JOINT
MWWD	MUKILTEO WATER AND WASTEWATER DISTRICT
N	NORTH
NIC	NOT IN CONTRACT
O.C.	ON CENTER
PC	POINT OF CURVATURE
PE	PLAIN END
PI	POINT OF INTERSECTION
PL	PLACE
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
PUD	PUBLIC UTILITY DISTRICT
PUE	PUBLIC UTILITY EASEMENT
PWS	PUBLIC WORKS STANDARDS
REQ'D.	REQUIRED
ROW	RIGHT-OF-WAY
RT	RIGHT
S	SOUTH
SD	STORM DRAIN
SP	SPACE
SS	SANITARY SEWER
SSD	STOPPING SIGHT DISTANCE
STA	STATION
TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
TOC	TOP OF CURB
TYP.	TYPICAL
TBW	TOP BACK OF WALK
TOW	TOP OF WALL
UNO	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
WSDOT	WASHINGTON DEPT. OF TRANSPORTATION
W/	WITH
W	WEST
WS	WATER SERVICE

GENERAL PROJECT NOTES

1. ALL WORKMANSHIP, METHODS AND MATERIALS FOR THIS PROJECT SHALL CONFORM TO THE 2021 EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PRODUCED BY WSDOT AND THE WASHINGTON STATE CHAPTER OF THE APWA AND ALL APPLICABLE DEVELOPMENT STANDARDS FOR CITY OF MUKILTEO MUNICIPAL CODE AND DEPARTMENT OF PUBLIC WORKS; MUKILTEO WATER AND WASTEWATER DISTRICT; SNOHOMISH COUNTY PUBLIC UTILITY DISTRICT (PUD); PUGET SOUND ENERGY (PSE); AND ANY SPECIAL PROVISIONS PROVIDED BY THESE PLANS OR OTHER CONTRACT DOCUMENTS FOR THE PROJECT.

2. EXISTING UTILITIES ARE SHOWN IN THESE PLANS PER THE LATEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES AND RELATED SURFACE FEATURES WITHIN THE PROJECT AREA AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE PLAN INFORMATION PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL, AT MINIMUM, CONTACT THE UNDERGROUND UTILITIES LOCATE CENTER (1-800-424-5555) TO HAVE UTILITIES VERIFIED ON THE GROUND PRIOR TO CONSTRUCTION.

3. THE TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) MEASURES SHOWN IN THESE PLANS SHALL BE CONSIDERED A MINIMUM. THE CONTRACTOR SHALL PROVIDE ANY REASONABLE ADDITIONAL MEASURES AS MAY BE REQUIRED TO FACILITATE ACTUAL SITE RUNOFF CONDITIONS AT THE TIME OF CONSTRUCTION. ALL NECESSARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN-PLACE PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITIES.

4. ALL NEW PAVEMENT, SIDEWALKS, AND CURB AND GUTTER INSTALLED BY THIS PROJECT SHALL BEAR ON SUITABLE, COMPACT FOUNDATION SOILS IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND PROJECT CONTRACT DOCUMENTS. SIMILAR EXISTING FACILITIES TO REMAIN, WHICH ARE DISTURBED OR DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED IN-KIND TO THE SAME STANDARDS OF NEW FACILITIES.

5. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE WSDOT STANDARD PLANS AND SPECIFICATIONS AS AMENDED OR SUPPLEMENTED BY THE PROJECT PLANS, DETAILS, AND SPECIFICATIONS AS PROVIDED IN THE CONTRACT DOCUMENTS.

6. ALL EXISTING ON-SITE DOMESTIC WATER WELLS AND/OR SEWER SEPTIC TANKS SHALL BE PROPERLY ABANDONED BY A LICENSED CONTRACTOR, CERTIFIED TO PERFORM SUCH WORK, AND WRITTEN VERIFICATION OF ABANDONMENT SHALL BE PROVIDED TO THE OWNER, WASHINGTON STATE DEPARTMENT OF ECOLOGY, AND KING COUNTY HEALTH DEPARTMENT IN ACCORDANCE WITH APPLICABLE AGENCY REGULATIONS.

7. THE MATERIALS AND METHODS OF INSTALLATION FOR ALL PUBLIC DOMESTIC POTABLE AND FIRE WATER SUPPLY SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS OF MUKILTEO WATER & WASTEWATER.

8. THE MATERIALS AND METHODS OF INSTALLATION FOR ALL PUBLIC SANITARY SEWER SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS OF MUKILTEO WATER & WASTERWATER.

9. AT LEAST TWO COPIES OF THESE PLANS SHALL BE ON THE JOB SITE WHEN CONSTRUCTION IS IN PROGRESS. THE CONTRACTOR SHALL ALSO HAVE COPIES OF THE APPLICABLE REGULATORY AGENCY STANDARDS AVAILABLE AT THE JOB SITE DURING THE RELATED CONSTRUCTION OPERATIONS. ALL APPLICABLE PERMITS SHALL BE OBTAINED PRIOR TO ANY CONSTRUCTION ACTIVITY. ONE COMPLETE SET OF PROJECT PLANS WITH RECORDS OF AS-BUILT INFORMATION SHALL BE PROVIDED TO THE PROJECT ENGINEER AT THE END OF THE PROJECT.

9. THE CONTRACTOR SHALL COORDINATE ACTIVITIES OF ALL UTILITY PURVEYORS IMPACTED BY WORK FOR THIS PROJECT AND SHALL CONTACT THEM PRIOR TO CONSTRUCTION TO SCHEDULE WORK FOR PROVISIONS FOR AND BE RESPONSIBLE TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT AND KEEP IN SERVICE ALL EXISTING UTILITIES WHETHER SHOWN OR NOT SHOWN ON THESE PLANS DURING CONSTRUCTION.

10. UTILITIES, OR INTERFERING PORTIONS OF UTILITIES, THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO COMPLETE THE PROPOSED WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF ABANDONED UTILITIES. CUTTING AND PLUGGING OF LINES TO BE ABANDONED SHALL BE CONSIDERED INCIDENTAL TO OTHER WORK PERFORMED.

11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PROVISIONS OF THE SOILS REPORT FOR THE SITE BE OBSERVED AND COMPLIED WITH DURING ALL PHASES OF SITE PREPARATION, GRADING OPERATIONS, FOUNDATION, SLAB AND PAVING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY OF ANY PROVISION OF THE SOIL REPORT WHICH CONFLICT WITH INFORMATION SHOWN ELSEWHERE ON THESE DRAWINGS, OR WHICH REQUIRES FURTHER CLARIFICATION.

12. THE CONTRACTOR OR OWNER SHALL OBTAIN THE SERVICES OF A QUALIFIED SOILS ENGINEER AND/OR TESTING AGENCY TO PERFORM SUBGRADE/BACKFILL DENSITY TESTS OR TO DIRECT THE REMOVAL AND REPLACEMENT OF ANY UNSUITABLE MATERIALS DURING CONSTRUCTION. A REPRESENTATIVE OF THE SOILS ENGINEER AND/OR TESTING AGENCY SHALL BE AVAILABLE TO OBSERVE AND TO VERIFY FIELD CONDITIONS AS WORK PROCEEDS. THE SOILS ENGINEER SHALL SUBMIT FIELD REPORTS AS REQUIRED TO CERTIFY THE METHODS AND MATERIALS ARE IN ACCORDANCE WITH PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE THE APPROPRIATE SOILS INSPECTIONS AND TESTING.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE TRAFFIC CONTROL DURING CONSTRUCTION ADJACENT TO OR WITHIN ALL PUBLIC ROADWAYS. TRAFFIC CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE PROPERTY DRIVEWAYS DURING CONSTRUCTION.

14. ALL WORK PERTAINING TO THIS PROJECT SHALL BE SUBJECT TO INSPECTION BY CITY OF MUKILTEO AND MUKILTEO WATER AND WASTEWATER DISTRICT INSPECTORS OR THEIR DESIGNATED REPRESENTATIVE. PRIOR TO ANY SITE WORK, THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR AT (425) 263-8075 AND THE DISTRICT INSPECTOR AT (425) 355-3355 TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE.

NO.	DATE	REVISION	BY	CK.
1	1/26/22	LAND USE SUBMITTAL	PCE	MJH

MATTHEW J. HOUCK
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
1/28/2022

CARRIK COURT

MIXED-USE COMMERCIAL LAND USE PERMIT

STANDARD ABBREVIATIONS, AND PROJECT NOTES

SNOHOMISH COUNTY, WASHINGTON

CITY OF MUKILTEO

CLIENT

214-WLD CARRIK COURT, LLC
1010 MARKET STREET
KIRKLAND, WA 98033
PHONE: (425) 576-9390
FAX: (425) 576-9568

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Landscape Architecture • Land Use Consulting
11321-B NE 120th Street
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101 South Wenatchee Avenue, Suite C3
Wenatchee, WA 98801 • (509) 293-7731
www.cphconsultants.com

PROJECT NO. 0054-20-034

DRAWING C0.01

SHEET 2 OF 32

811 Know what's below. Call before you dig.

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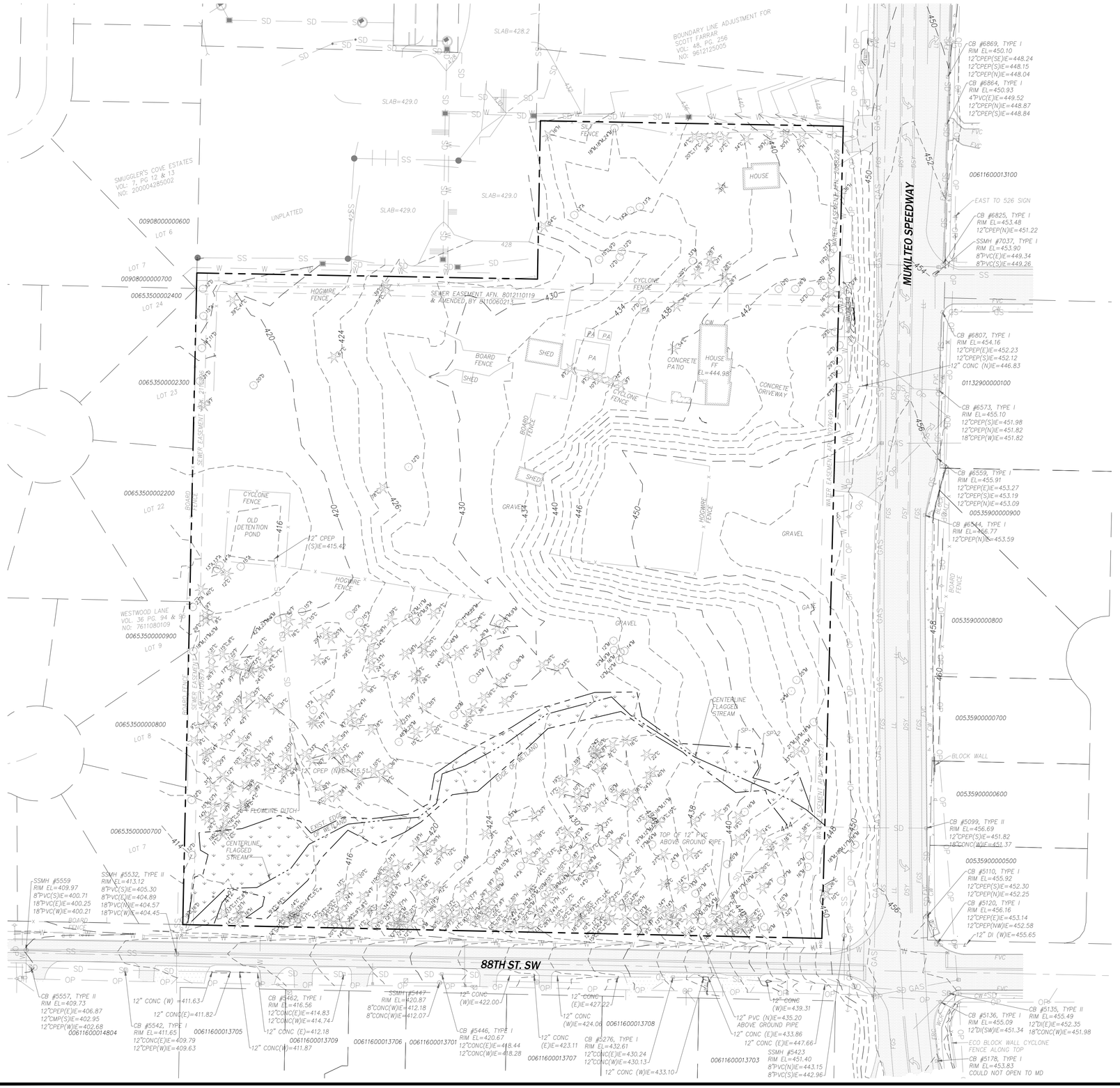
1/30/2022 7:45 PM PETER EVANS

OTOP542034
TBLOCK
CNOT542034

PTN. OF NE OF SEC 16, TWP 28 N, R4E W.M.



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PARCEL B

TRACT 135, WEST AND WHEELER'S SEA VIEW TRACTS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 7 OF PLATS, PAGES 12 & 13, RECORDS OF SNOHOMISH COUNTY; SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.

PARCEL C

TRACT 136, WEST AND WHEELER'S SEA VIEW TRACTS, ACCORDING TO THE PLAT THERE OF RECORDED IN VOLUME 7 OF PLATS, PAGES 12 & 13, RECORDS OF SNOHOMISH COUNTY; SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.

NOTES

1. A 5" ELECTRONIC TOTAL STATION WAS USED FOR THIS FIELD TRAVERSE SURVEY. ACCURACY MEETS OR EXCEEDS W.A.C. 332-130-090.
2. ALL TITLE INFORMATION SHOWN ON THIS SURVEY WAS EXTRACTED FROM CHICAGO TITLE COMPANY COMMITMENT NUMBER 500064809, DATED 1, NOVEMBER 2017. MEAD GILMAN AND ASSOCIATES HAS CONDUCTED NO INDEPENDENT TITLE RESEARCH, AND HAS RELIED WHOLLY ON THE TITLE COMPANY'S REPRESENTATIONS OF THE TITLE'S CONDITION TO PREPARE THIS SURVEY AND QUALIFIES THE MAP'S ACCURACY AND COMPLETENESS TO THAT EXTENT.
3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION EXISTING AT THAT TIME. ALL CONTROL INDICATED AS "FOUND" WAS RECOVERED FOR THIS PROJECT IN DECEMBER, 2017, UNLESS OTHERWISE NOTED.
4. UNDERGROUND UTILITIES WERE LOCATED BASED ON SURFACE EVIDENCE (I.E. PAINT MARKS, SAW CUTS IN PAVEMENT, COVERS, LIDS, ETC.). THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, ELEVATION, AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
5. TREE SIZES AND SPECIES WERE DETERMINED TO THE BEST OF OUR ABILITY. MEAD GILMAN AND ASSOCIATES DOES NOT WARRANT THE ACCURACY OF THE SIZE AND SPECIES OF ANY TREES SHOWN HEREON. ALL TREE SIZES SHOULD BE VERIFIED BY A TRAINED ARBORIST.
6. PROPERTY AREA = 413,749± SQUARE FEET/ 9.5 ACRES.
7. ALL DISTANCES ARE IN FEET.

REFERENCES

1. WEST AND WHEELER'S SEA VIEW 5 ACRE TRACTS – RECORDING NO. 0000119951, VOLUME 7, PG 12 & 13.
2. RECORD OF SURVEY FOR WALLACE C. WARD – RECORDING NO. 9005025012, BOOK 31, PG 234 & 235.
3. RECORD OF SURVEY FOR MABEL SEWELL – RECORDING NO. 9706095003, VOLUME 50, PG 21.
4. PLAT OF WESTWOOD LANE – RECORDING NO. 7611080109, VOLUME 36, PG 94 & 95.
5. PLAT OF JOHN GRAHAM ADDITION – RECORDING NO. 1137434, VOLUME 15, PG 52.
6. PLAT FOR MUKILTEO SCHOOL DISTRICT – RECORDING NO. 9006255001, VOLUME 32, PG 74.
7. PLAT OF SMUGGLERS COVE ESTATES – RECORDING NO. 485028, VOLUME 7, PG 12 & 13.
8. BOUNDARY LINE ADJUSTMENT FOR SCOTT FARRAR – RECORDING NO. 9612125005, VOLUME 48, PG 256.

NO.	DATE	REVISION	BY	CK.
1	1/26/22	LAND USE SUBMITTAL	PCE	MJH

MATTHEW J. HEINCE
STATE OF WASHINGTON
40594
REGISTERED PROFESSIONAL ENGINEER
1/28/2022

CARRIK COURT

MIXED-USE COMMERCIAL LAND USE PERMIT

EXISTING CONDITIONS

CITY OF MUKILTEO

SNOHOMISH COUNTY, WASHINGTON

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PROJECT NO. 0054-20-034

DRAWING C0.10

SHEET 3 OF 32

0 50 100
PLAN IN FEET

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OTOP542034
CSIT542034
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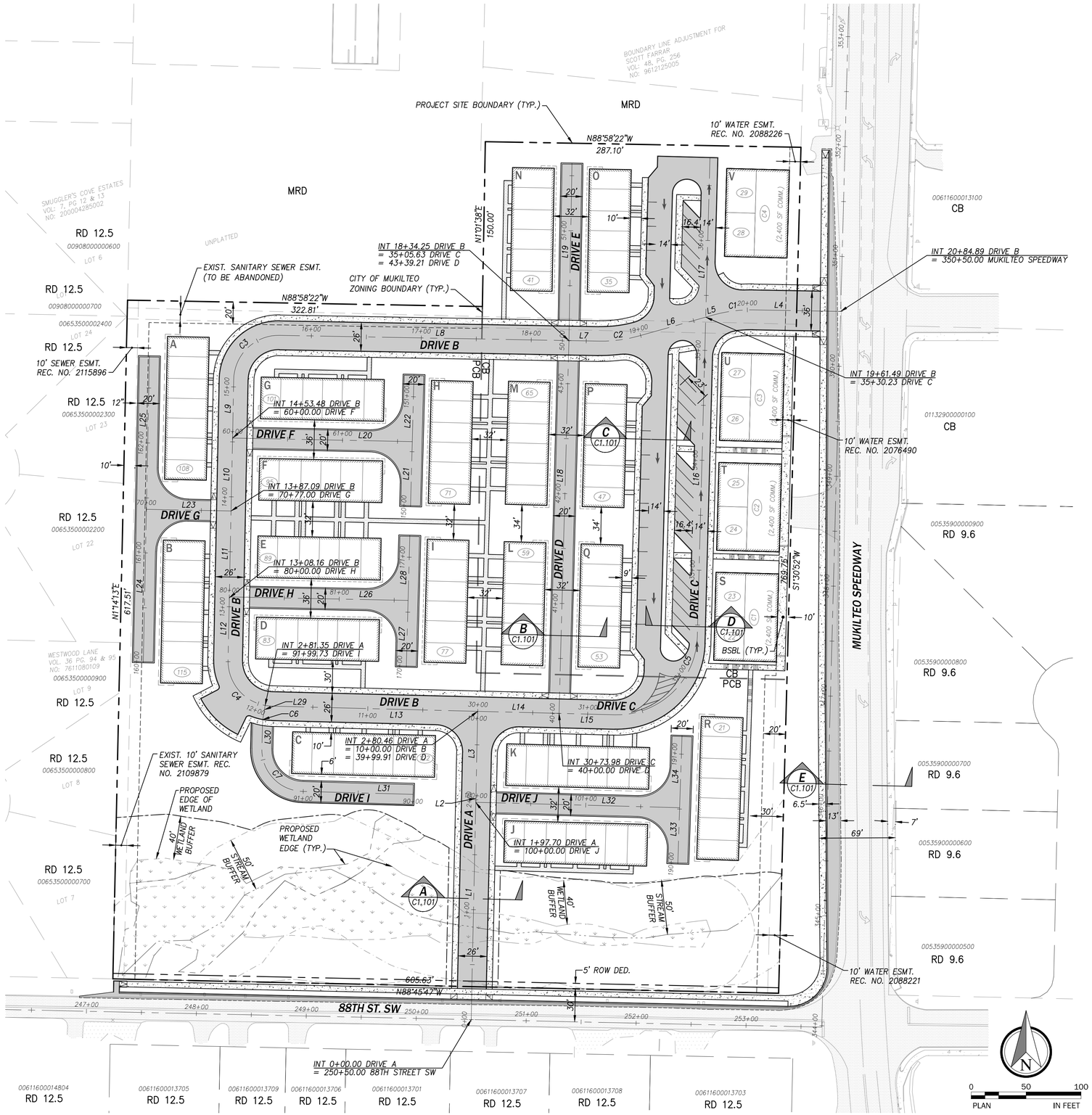
Vicinity Map

PTN. OF NE OF SEC 16, TWP 28 N, R4E W.M.



PROJECT INFORMATION

GENERAL

PARCEL NOS.:	00611600013402, 0061160003500, 00611600013600
SITE ADDRESS:	8516, 8616 MUKILTEO SPEEDWAY MUKILTEO, WA 98275
ZONING:	COMMUNITY BUSINESS (CB), PLANNED COMMUNITY BUSINESS (PCB)
PROPOSED USE:	MULTI-FAMILY, COMMERCIAL

SITE DEVELOPMENT

TOTAL SITE AREA:	9.61 AC (418,612 SF)
BASE RESIDENTIAL DENSITY:	13 DU/AC
ALLOWABLE RESIDENTIAL UNITS:	9.61 AC x 13 DU/AC =125 DU
PROPOSED NO. RESIDENTIAL UNITS:	122 DU
PROPOSED NO. COMMERCIAL UNITS:	4
TOTAL COMMERCIAL FLOOR AREA:	9,600 SF
MINIMUM LOT SIZE:	NONE
MAXIMUM LOT SIZE:	418,612 SF
ROW DEDICATION:	3,028 SF
REC & STORM TRACT:	88,403 SF
MIN. TOWNHOUSE BLDG. SETBACKS:	
FRONT	15 FEET
REAR	5 FEET
SIDE	5 FEET
MAX. LOT COVERAGE ALLOWED:	55%
MIN. REQUIRED OPEN SPACE AND RECREATIONA:	83,722 SF = 418,612 x 20%
PROVIDED OPEN SPACE AND RECREATION AREA:	88,403 SF

UTILITY PURVEYORS/PUBLIC SERVICES

WATER:	MUKILTEO WATER & WASTEWATER DISTRICT
SANITARY SEWER:	MUKILTEO WATER & WASTEWATER DISTRICT
SCHOOL DISTRICT:	MUKILTEO SCHOOL DISTRICT NO. 6
FIRE DISTRICT:	MUKILTEO FIRE DEPARTMENT
ELECTRIC/LIGHTING:	SNOHOMISH COUNTY PUD NO. 1
NATURAL GAS:	PUGET SOUND ENERGY
COMMUNICATION/CABLE:	COMCAST/XFINITY, ZIPLY

ALIGNMENT DATA

LINE TABLE

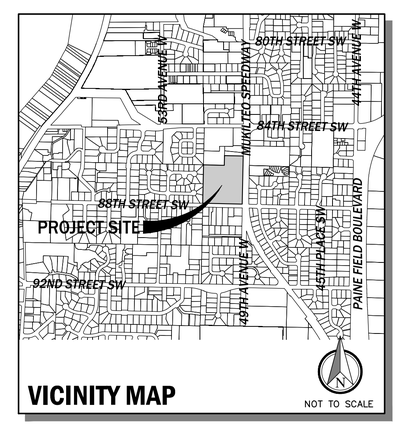
LINE #	LENGTH	DIRECTION
L1	197.70'	N1°13'18"E
L2	5.72'	N1°13'18"E
L3	77.05'	N1°13'18"E
L4	79.53'	S88°58'22"E
L5	7.34'	N74°17'09"E
L6	63.38'	N74°17'09"E
L7	27.30'	S88°57'20"E
L8	263.17'	S88°57'20"E
L9	53.24'	N1°06'01"E
L10	66.39'	N1°12'46"E
L11	78.13'	N1°08'48"E
L12	57.59'	N1°08'48"E
L13	187.19'	N88°33'21"W
L14	73.98'	S88°33'21"E
L15	50.92'	S88°33'21"E
L16	290.75'	N1°30'52"E
L17	145.07'	N1°30'52"E
L18	339.21'	N1°30'52"E
L19	161.50'	N0°59'21"E
L20	213.43'	S88°51'12"E

LINE TABLE

LINE #	LENGTH	DIRECTION
L21	59.16'	N1°30'30"E
L22	61.22'	N1°30'30"E
L23	77.00'	S88°52'02"E
L24	139.59'	N1°08'48"E
L25	139.63'	N1°08'48"E
L26	162.61'	S88°51'46"E
L27	60.66'	N1°31'23"E
L28	59.34'	N1°31'23"E
L29	7.80'	N10°10'40"E
L30	21.23'	N1°30'52"E
L31	100.63'	N88°29'08"W
L32	185.44'	S88°29'08"E
L33	51.24'	N1°52'55"E
L34	65.77'	N1°52'55"E

CURVE TABLE

CURVE #	Δ	RADIUS	LENGTH
C1	N82°39'24"E	125.00'	36.52'
C2	N82°39'55"E	125.00'	36.56'
C3	N46°04'20"E	41.00'	64.36'
C4	N43°42'16"W	41.00'	64.19'
C5	N46°28'45"E	73.00'	114.58'
C6	N5°50'46"E	68.65'	10.38'
C7	N43°29'08"W	38.00'	59.69'



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STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
1/28/2022

CARRIK COURT

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HORIZONTAL CONTROL PLAN

CITY OF MUKILTEO

SNOHOMISH COUNTY, WASHINGTON

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SHEET 4 OF 32

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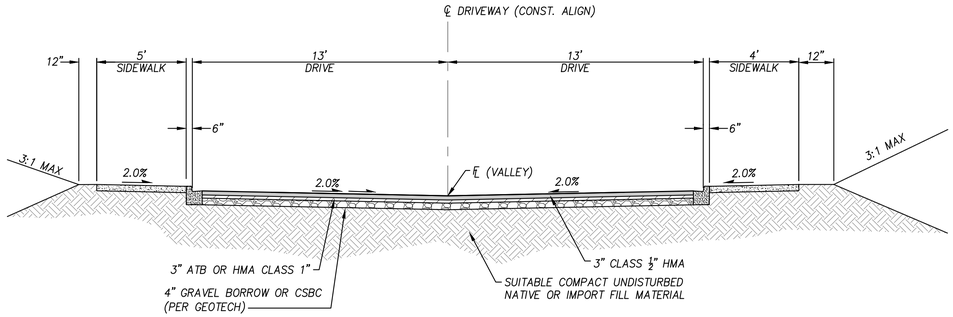

A C1.00 TYPICAL DRIVEWAY SECTION - DRIVE A, B, C (30+00.00-30+50.00)

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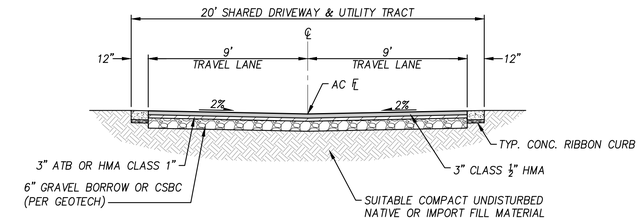

B C1.00 TYPICAL DRIVEWAY SECTION - DRIVE D,E,F,G,H,I,J

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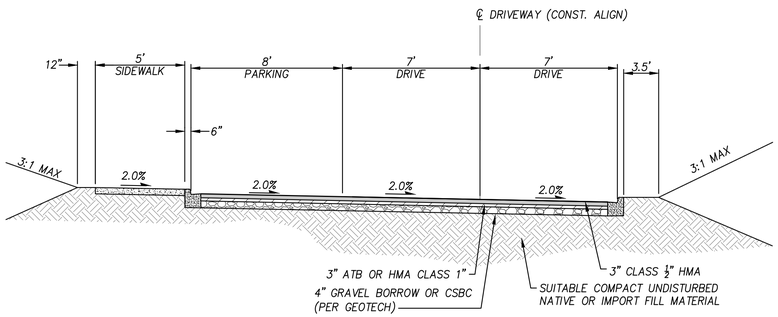
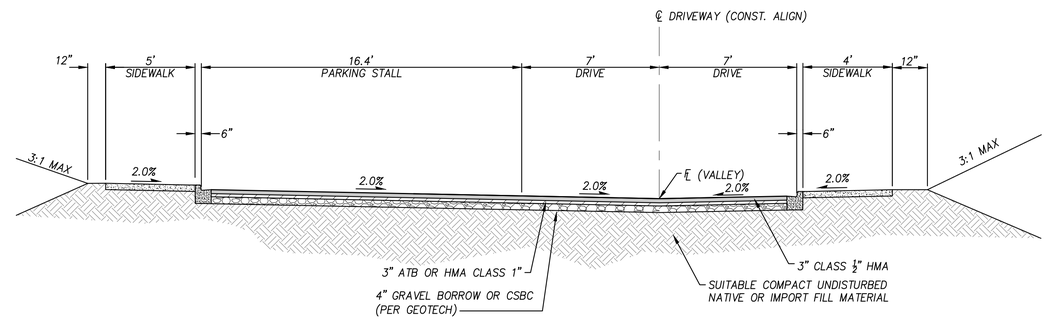


C C1.00 TYPICAL DRIVEWAY SECTION - PARALLEL PARKING

NOT TO SCALE



D C1.00 TYPICAL DRIVEWAY SECTION - DRIVE C (30+50.00 - 36+75.30)

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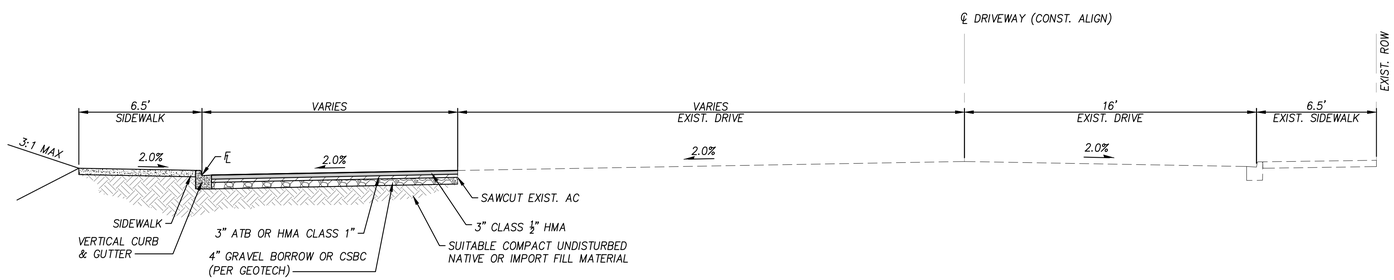

E – TYPICAL ROADWAY SECTION - MUKILTEO SPEEDWAY

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TYPICAL ROAD SECTIONS

CITY OF MUKILTEO

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SHEET 5 OF 32

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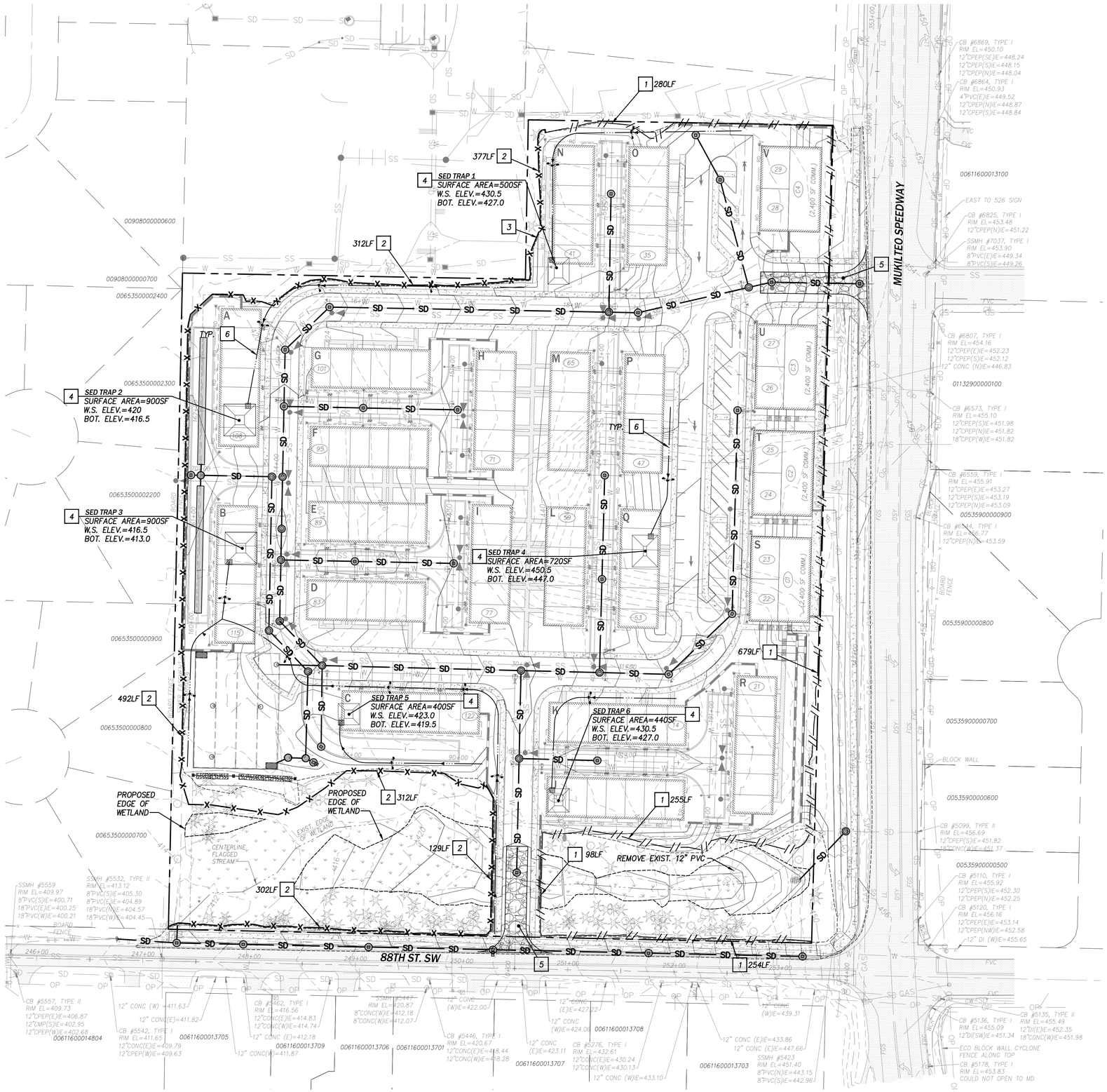

CONSTRUCTION NOTES

EROSION CONTROL AND TEMPORARY CONSTRUCTION

1. CONSTRUCTION FENCING PER DETAIL ON SHEET C2.100, APPROX. LENGTH PER PLAN
2. SILT FENCE PER DETAIL ON SHEET C2.100, APPROX. LENGTH PER PLAN
3. APPROX. LIMIT OF GRADING REF. TYP. CLEARING LIMITS DETAIL ON SHEET C2.100
4. TEMP. SEDIMENT TRAP PER DETAIL ON SHEET C2.100. SEE SIZING INFORMATION THIS SHEET.
5. TEMPORARY STABILIZED CONSTRUCTION ENTRANCE PER DETAIL ON SHEET C2.100
6. TEMPORARY INTERCEPTOR DITCH PER DETAIL ON SHEET C2.100

LEGEND

- APPROX. LIMIT OF GRADING
- SILT FENCE
- CONSTRUCTION FENCE
- TEMPORARY INTERCEPTOR DITCH WITH ROCK CHECK DAM
- ROCKERY
- INLET PROTECTION

NOTES:
1. TEMPORARY CULVERTS, INTERCEPTOR DITCHES, AND CHECK DAMS ARE SHOWN APPROXIMATE. ACTUAL EXTENTS AND LOCATIONS MAY VARY TO FACILITATE SITE CONDITIONS AND CONSTRUCTION ACTIVITIES.
2. ALL PERMANENT STORM DRAIN FACILITIES ACTIVE DURING CONSTRUCTION SHALL BE CLEANED AND/OR REPAIRED TO GOOD WORKING CONDITION PRIOR TO FINAL PROJECT CLOSEOUT.
3. EXISTING UTILITIES SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER/ENGINEER OF ANY CONFLICTS WITH PROPOSED IMPROVEMENTS AND/OR CONSTRUCTION.

SEDIMENT TRAP SIZING:

SED TRAP 1	SED TRAP 2	SED TRAP 3
Q_2 = 0.237 CFS	Q_2 = 0.397 CFS	Q_2 = 0.372 CFS
Q_{10} = 0.371 CFS	Q_{10} = 0.622 CFS	Q_{10} = 0.582 CFS
SED TRAP 4	SED TRAP 5	SED TRAP 6
Q_2 = 0.321 CFS	Q_2 = 0.064 CFS	Q_2 = 0.194 CFS
Q_{10} = 0.502 CFS	Q_{10} = 0.100 CFS	Q_{10} = 0.303 CFS

DRY SEASON CONSTRUCTION (MAY 1ST TO SEPTEMBER 30TH) ASSUMES 2 YEAR STORM

TRAP 1
SURFACE AREA = 2 x Q_2/0.00096 = 493 SF MINIMUM
TRAP 2
SURFACE AREA = 2 x Q_2/0.00096 = 828 SF MINIMUM
TRAP 3
SURFACE AREA = 2 x Q_2/0.00096 = 774 SF MINIMUM
TRAP 4
SURFACE AREA = 2 x Q_2/0.00096 = 668 SF MINIMUM
TRAP 5
SURFACE AREA = 2 x Q_2/0.00096 = 133 SF MINIMUM
TRAP 6
SURFACE AREA = 2 x Q_2/0.00096 = 403 SF MINIMUM

WET SEASON CONSTRUCTION (OCTOBER 1ST TO APRIL 30TH) ASSUMES 10 YEAR STORM

TRAP 1
SURFACE AREA = 2 x Q_{10}/0.00096 = 772 SF MINIMUM
TRAP 2
SURFACE AREA = 2 x Q_{10}/0.00096 = 1295 SF MINIMUM
TRAP 3
SURFACE AREA = 2 x Q_{10}/0.00096 = 1212 SF MINIMUM
TRAP 4
SURFACE AREA = 2 x Q_{10}/0.00096 = 1046 SF MINIMUM
TRAP 5
SURFACE AREA = 2 x Q_{10}/0.00096 = 208 SF MINIMUM
TRAP 6
SURFACE AREA = 2 x Q_{10}/0.00096 = 631 SF MINIMUM

0 50 100
PLAN IN FEET

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STATE OF WASHINGTON
MATTHEW J. HEINCK
CERTIFICATE NUMBER 22200
REGISTERED PROFESSIONAL ENGINEER
1/28/2022

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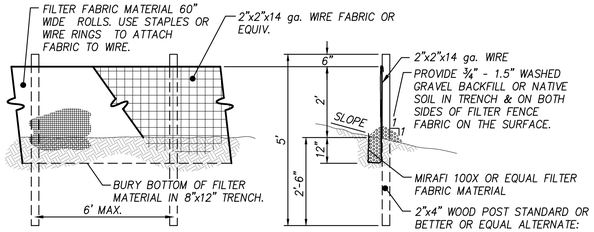


SILT FENCE NOTES

1. FILTER FABRIC SHALL BE 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 TOGE–THER ONLY AT A SUPPORT POST, WITH A MINIMUM 6–INCH OVERLAP, AND SECURELY FASTENED AT BOTH ENDS TO POST.
2. POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
3. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY–DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
5. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. WHEN EXTRA–STRENGTH FILTER FABRIC AND CLOSER POST SPACING IS USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ABOVE NOTES APPLYING.
7. FILTER FABRIC FENCES SHALL NOT BE REMOVED BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

STANDARD NOTES:

A. THE FILTER FABRIC SHALL BE 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.

B. 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 (MINIMUM OF 30 INCHES).

C. A TRENCH SHALL BE EXCAVATED, ROUGHLY 8 INCHES WIDE AND 12 INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POST TO ALLOW THE FILTER FABRIC TO BE BURIED.

D. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

E. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

F. WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF STANDARD NOTE E. APPLYING.

G. THE TRENCH SHALL BE BACKFILLED WITH ¾-INCH MINIMUM WASHED GRAVEL.

H. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

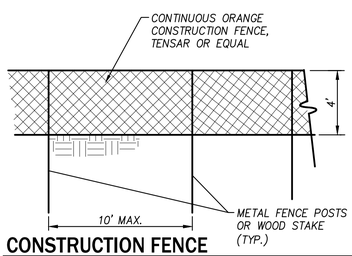
I. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

MAINTENANCE STANDARDS:

1. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.
4. SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6 INCHES HIGH.
5. IF THE FILTER FABRIC (GEOTEXTILE) HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

TYPICAL SILT FENCE

NOT TO SCALE

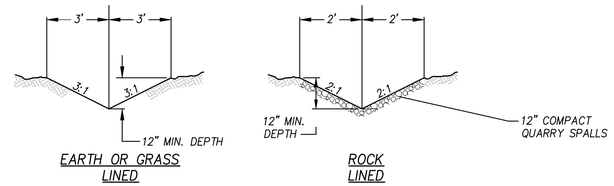


CONSTRUCTION FENCE

NOT TO SCALE

TEMPORARY DIKES AND SWALES NOTES

1. SEED AND MULCH SHALL BE APPLIED WITHIN 5 DAYS OF DIKE CONSTRUCTION (SEE VEGETATION).
2. THE UPSLOPE SIDE OF THE DIKE SHALL PROVIDE POSITIVE DRAINAGE TO THE DIKE OUTLET.
3. NO EROSION SHALL OCCUR AT THE DIKE OUTLET. PROVIDE ENERGY DISSIPATION MEASURES AS NECESSARY.
4. SEDIMENT LADEN RUNOFF MUST BE RELEASED THROUGH A SEDIMENT TRAPPING FACILITY SUCH AS A POND, TRAP, OR SILT FENCE AS APPROPRIATE TO DRAINAGE AREA SIZE.



NOTES:

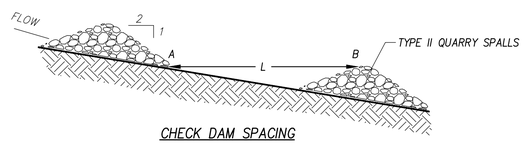
1. EARTH OR GRASS LINED DITCHES SHALL HAVE SLOPES OF 6% OR LESS AND A MAXIMUM FLOW VELOCITY OF 5FPS.
2. ROCK CHECK DAMS SHALL BE USED IN EARTH OR GRASS LINED DITCHES FOR SLOPES GREATER THAN 3%.
3. ROCK LINED DITCHES SHALL BE USED WHEN SLOPES EXCEED 6% OR FOR FLOW VELOCITY GREATER THAN 5FPS.

MAINTENANCE STANDARDS:

1. ANY SEDIMENT DEPOSITION OF MORE THAN 0.5 FEET SHALL BE REMOVED SO THAT THE CHANNEL IS RESTORED TO ITS DESIGN CAPACITY.
2. IF THE CHANNEL CAPACITY IS INSUFFICIENT FOR THE DESIGN STORM, IT MUST BE DETERMINED WHETHER THE PROBLEM IS LOCAL (E.G., A CONSTRICTION OR BEND) OR THE CHANNEL IS UNDERDESIGNED. IF THE PROBLEM IS LOCAL, THE CHANNEL CAPACITY MUST BE INCREASED THROUGH CONSTRUCTION OF A BERM(S) OR BY EXCAVATION. IF THE PROBLEM IS UNDERDESIGN, THE DESIGN ENGINEER SHALL BE NOTIFIED AND THE CHANNEL REDESIGNED TO A MORE CONSERVATIVE STANDARD.
3. THE CHANNEL SHALL BE EXAMINED FOR SIGNS OF SCOURING AND EROSION OF THE BED AND BANKS. IF SCOURING OR EROSION HAS OCCURRED, AFFECTED AREAS SHALL BE PROTECTED BY RIP-RAP OR AN EROSION CONTROL BLANKET OR NET.

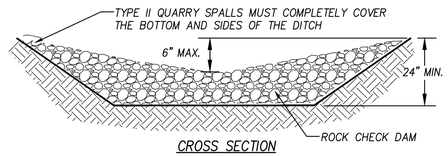
TEMPORARY INTERCEPTOR DITCH

NOT TO SCALE



CHECK DAM SPACING

L=THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION



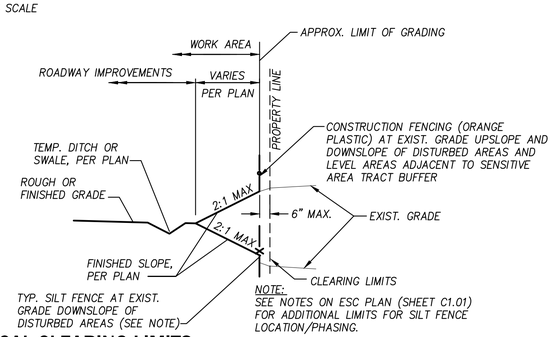
CROSS SECTION

CHECK DAM NOTES

1. THE MAXIMUM SPACING BETWEEN THE DAMS SHALL BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
2. ROCK CHECK DAMS SHALL BE CONSTRUCTED OF 2–TO 4–INCH DIAMETER ROCK. THE ROCK MUST BE PLACED BY HAND OR MECHANICAL PLACEMENT (NO DUMPING OF ROCK TO FORM DAM) TO ACHIEVE COMPLETE COVERAGE OF THE DITCH OR SWALE AND TO INSURE THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES.
3. LOG CHECK DAMS SHALL BE CONSTRUCTED OF 4– TO 6–INCH DIAMETER LOGS. THE LOGS SHALL BE EMBEDDED INTO THE SOIL AT LEAST 18 INCHES.
4. IN THE CASE OF GRASS–LINED DITCHES AND SWALES, CHECK DAMS SHALL BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE. THE AREA BENEATH THE CHECK DAMS SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER DAM REMOVAL.
5. CHECK DAMS SHALL BE CHECKED FOR SEDIMENT ACCUMULATION AFTER EACH SIGNIFICANT RAINFALL. SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE HALF OF THE ORIGINAL DAM HEIGHT OR BEFORE.

ROCK CHECK DAM

NOT TO SCALE



TYPICAL CLEARING LIMITS

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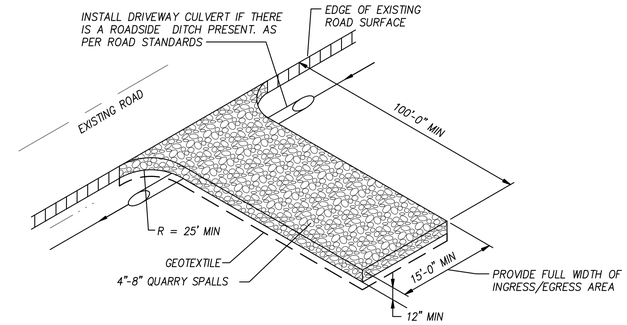


CONSTRUCTION ENTRANCE NOTES:

1. THE STABILIZED CONSTRUCITON EXIT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE REVISE TO KING COUNTY REFERENCE. SEE WSDOT STANDARD PLAN 1–80.10.01 FOR ADDITIONAL DETAIL AND CONSTRUCTION PLAN NOTES.
2. CONSTRUCT STABILIZED CONSTRUCTION EXITS WITH A 12–INCH THICK PAD OF 4–INCH TO 8–INCH QUARRY SPALLS, A 4–INCH COURSE OF ATB, OR USE OF EXISTING PAVEMENT. DO NOT USE CRUSHED CONCRETE, CEMENT, OR CALCIUM CHLORIDE FOR CONSTRUCTION EXIT STABILIZATION.
3. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD. IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH SILT FENCE.

MAINTENANCE STANDARDS:

1. QUARRY SPALLS SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.
2. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH. IF WASHING IS USED, IT SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK, AND WASH WATER SHALL DRAIN TO A SEDIMENT TRAP OR POND.
3. ANY SEDIMENT TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON-SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. STREET WASH WATER SHALL BE COLLECTED AND DISPOSED OF AS PROCESS WASTEWATER, OR DISPOSED OF ON-SITE USING APPROVED METHODS/BMPS.
4. IMMEDIATELY REMOVE QUARRY SPALLS FROM THE ROADWAY THAT HAVE BEEN TRANSPORTED FROM THE STABILIZED CONSTRUCTION EXIT.
5. UPON PROJECT COMPLETION AND SITE STABILIZATION, ALL CONSTRUCTION ACCESSES INTENDED AS PERMANENT ACCESS FOR MAINTENANCE SHALL BE PERMANENTLY STABILIZED.

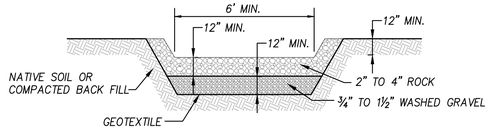
STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

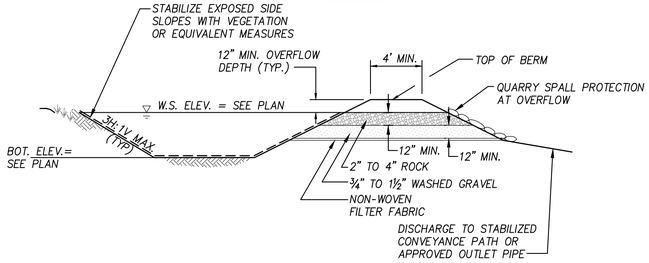
BMP C105

TEMPORARY GRAVEL OUTLET NOTES

1. GRAVEL SHALL BE 5/8–INCH MINUS WASHED ROCK. A LAYER OF FILTER FABRIC SHALL BE EMBEDDED IN THE GRAVEL.
2. MINIMUM LENGTH IN FEET OF THE GRAVEL OUTLET STRUCTURE SHALL BE EQUAL TO SIX TIMES THE NUMBER OF ACRES OF CONTRIBUTING DRAINAGE AREA.
3. THE INVERT OF THE GRAVEL OUTLET SHALL NOT BE LESS THAN 6 INCHES LOWER THAN THE MINIMUM ELEVATION OF THE TOP OF THE DIKE.
4. WATER SHALL BE DISCHARGED FROM THE GRAVEL OUTLET ONTO AN ALREADY STABILIZED AREA OR INTO A STABLE WATERCOURSE.
5. THE GRAVEL OUTLET STRUCTURE SHALL BE INSPECTED AND REPAIRED AFTER EACH RUNOFF–PRODUCING RAIN. THE GRAVEL MUST BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SEDIMENT ACCUMULATION AMONG THE GRAVEL.



OUTLET



SECTION

NOTES:

1. SQUARE FOOTAGE REQUIREMENT SHOWN AT WEIR WATER SURFACE ELEVATION.
2. TRAP MAY BE FORMED BY BERM OR BY PARTIAL OR COMPLETE EXCAVATION.
3. CONTRACTOR MAY PROPOSE ABOVE-GRADE TANK SYSTEM W/PUMP INTAKE AND OUTLET OR SIMILAR MANUFACTURED SEDIMENT REMOVAL/SETTLING SYSTEM EQUIVALENT TO THE DESIGN CAPACITY AND PERFORMANCE OF THE TYPICAL SEDIMENT TRAPS FOR APPROVAL BY ENGINEER.

TYPICAL SEDIMENT TRAP DETAIL

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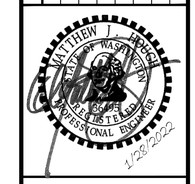

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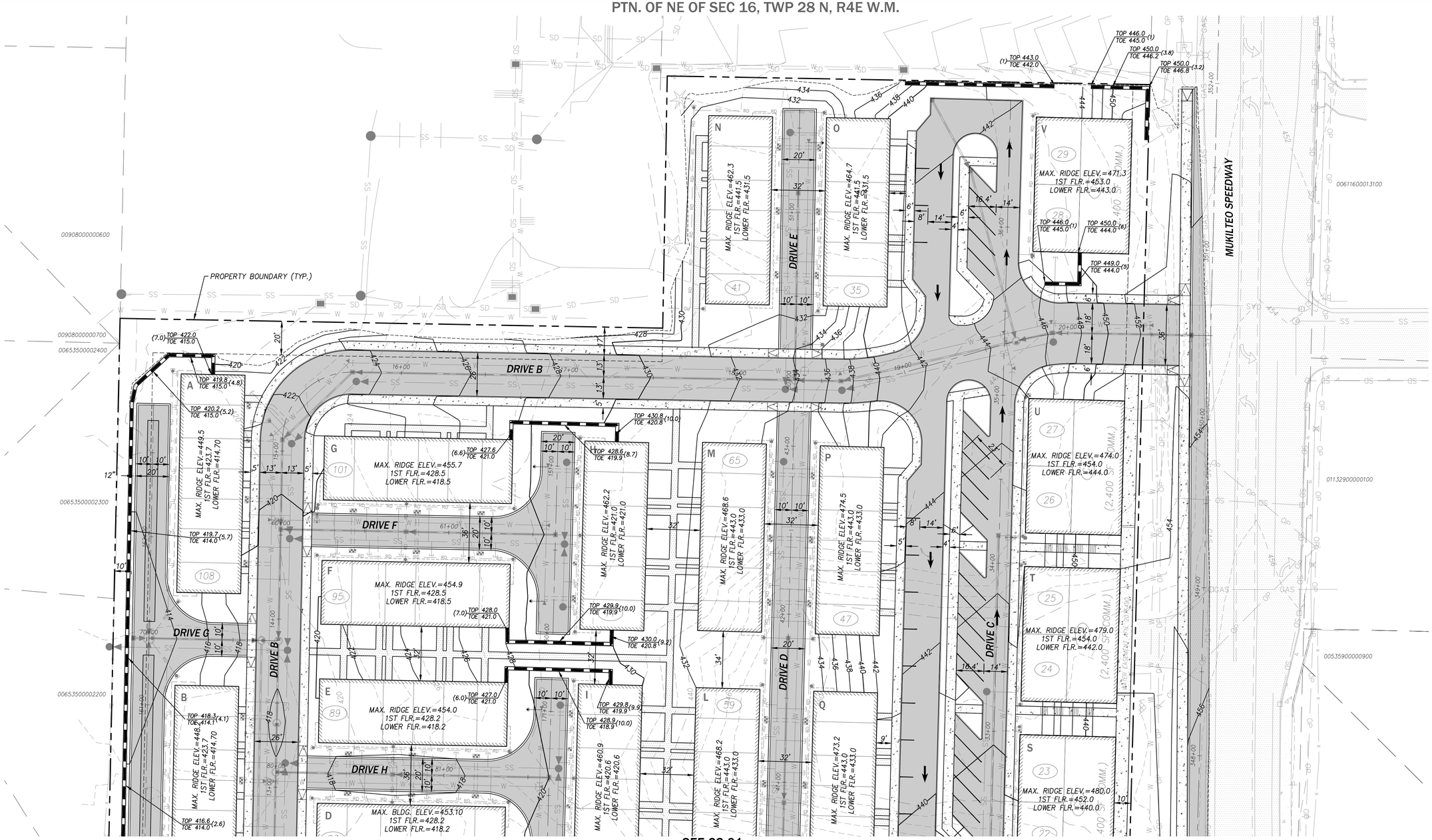

SEE C3.01

LEGEND

- MSE RETAINING WALL
- GRADE BREAK
- APPROX. LIMITS OF GRADING
- BPE=500.00 — BEARING PAD ELEVATION
- 160 — EXIST. TOPOGRAPHIC CONTOUR
- 160 — PROPOSED GRADE CONTOUR
- TYPE 1 STORM DRAINAGE CATCH BASIN
- TYPE 2 STORM DRAINAGE CATCH BASIN
- SD — STORM DRAINAGE PIPE
- STORM DRAINAGE DETENTION VAULT
- TOP 246 (4) / TOE 242 — FINISHED GRADE AT TOP/TOE OF WALL

APPROXIMATE EARTHWORK QUANTITIES

THE FOLLOWING EARTHWORK QUANTITIES ARE APPROXIMATE BASED ON PRELIMINARY FINISHED DESIGN GRADES AND ARE PROVIDED TO ILLUSTRATE THE GENERAL EARTHWORK EFFORTS FOR THE PROJECT EXCLUDING VOLUMES FOR STRIPPING, PAVEMENT SECTIONS, AND TRENCH DISPLACEMENT:

CUT:	55,479 CY
FILL:	10,555 CY
NET (CUT):	44,925 CY

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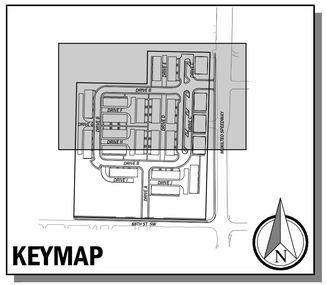

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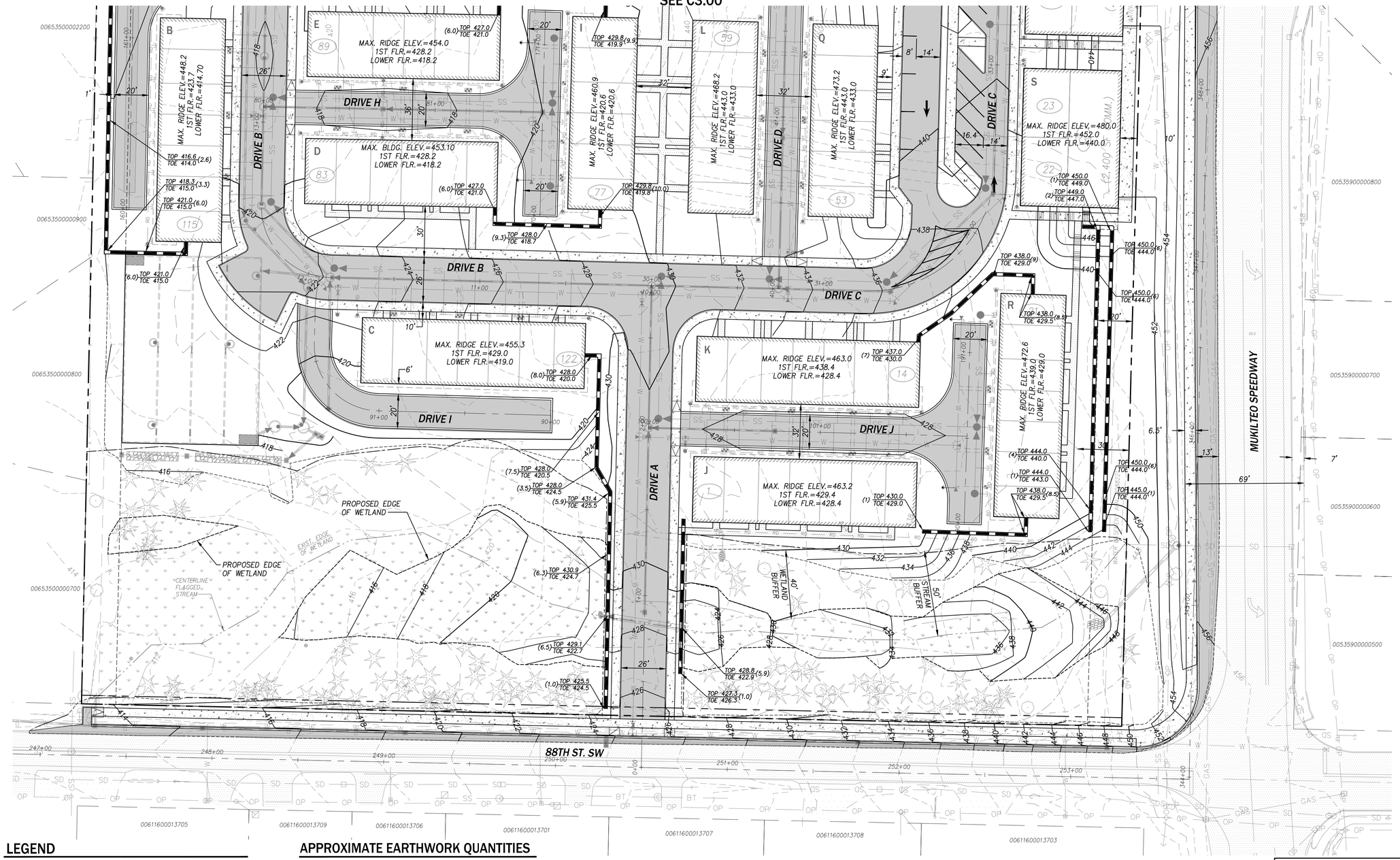

LEGEND

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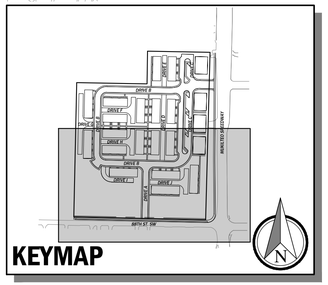

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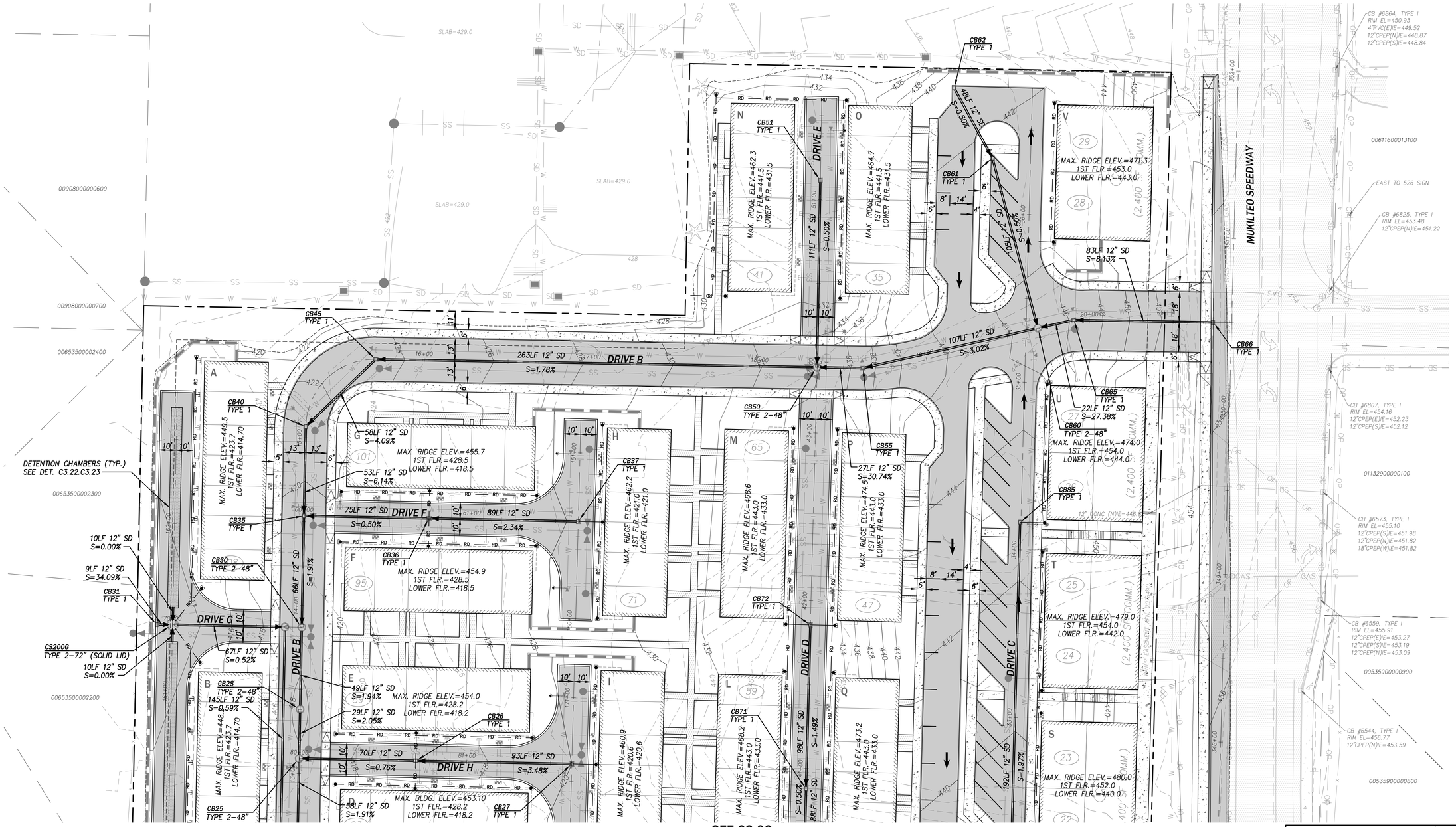

LEGEND

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- 160 PROPOSED GRADE CONTOUR
- TYPE 1 STORM DRAINAGE CATCH BASIN
- TYPE 2 STORM DRAINAGE CATCH BASIN
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- RD — RD ROOF DRAIN CONNECTION
- STORM DRAINAGE VAULT

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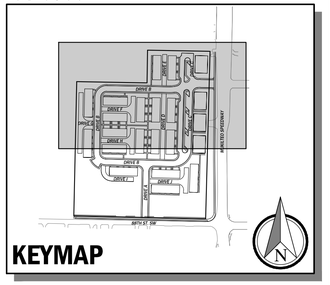

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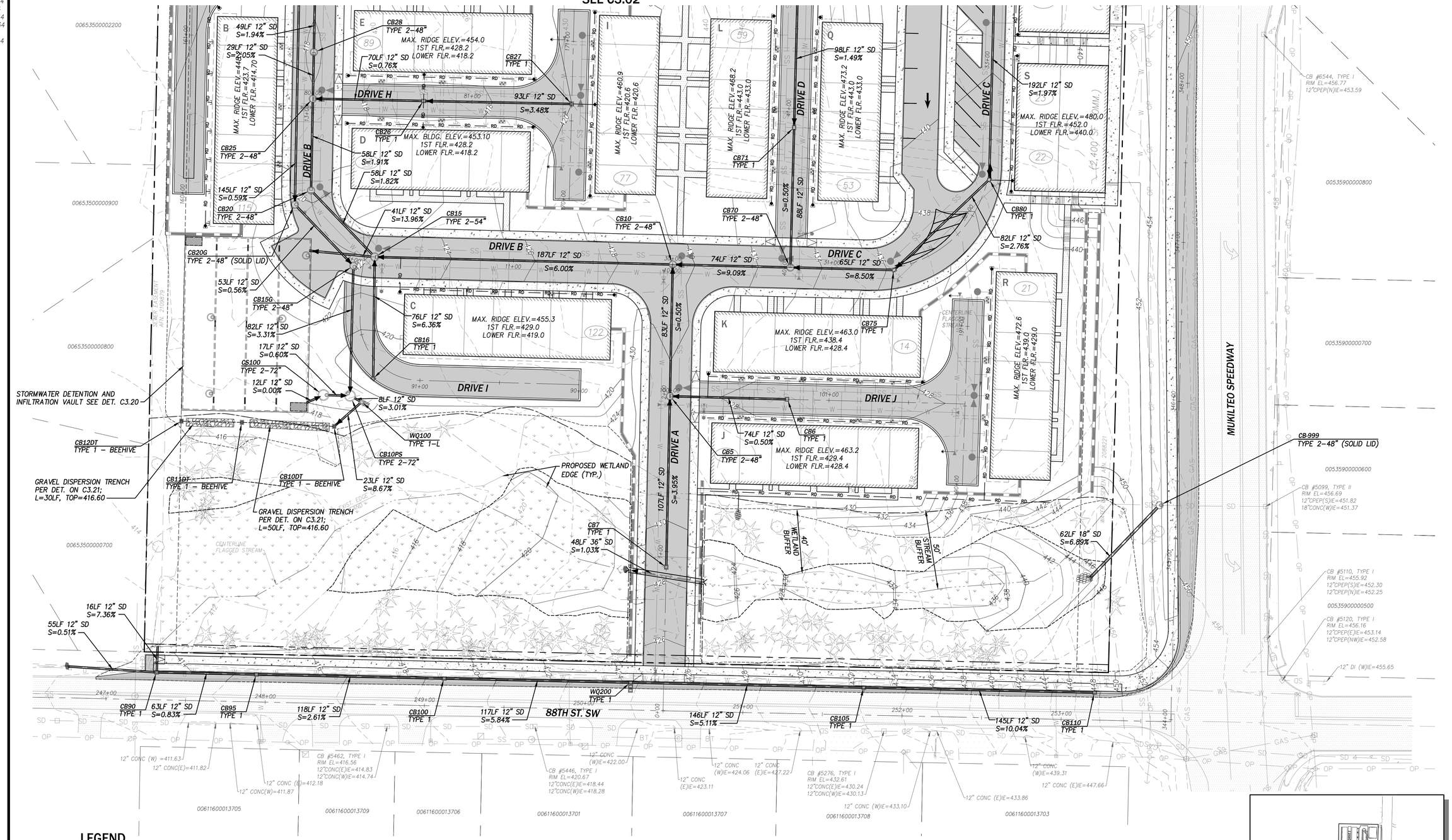
SEE C3.02



LEGEND

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- RD RD ROOF DRAIN CONNECTION
- STORM DRAINAGE VAULT

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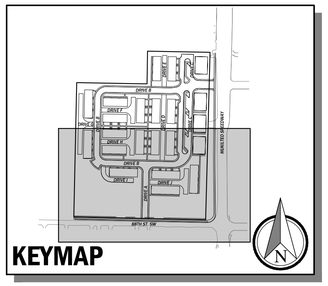

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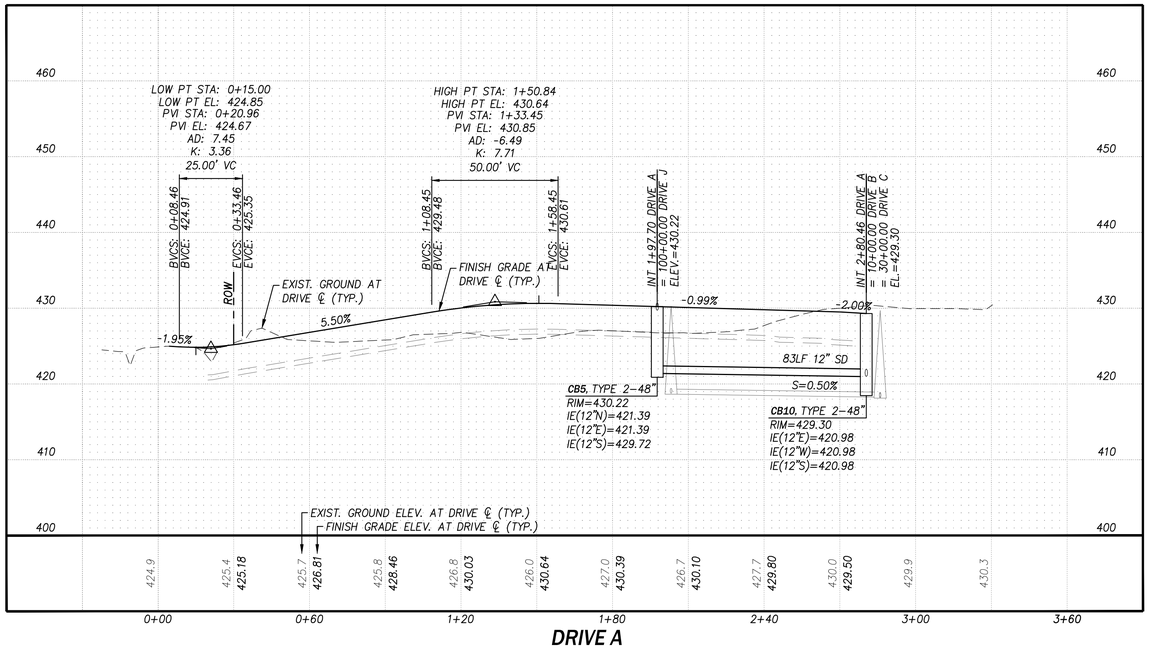

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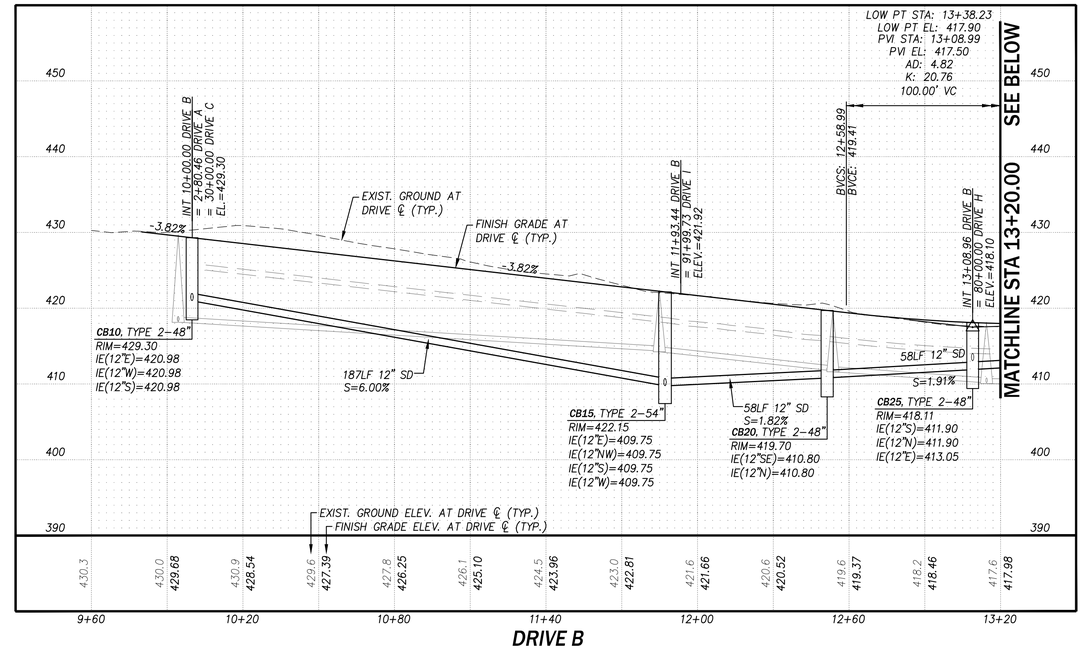

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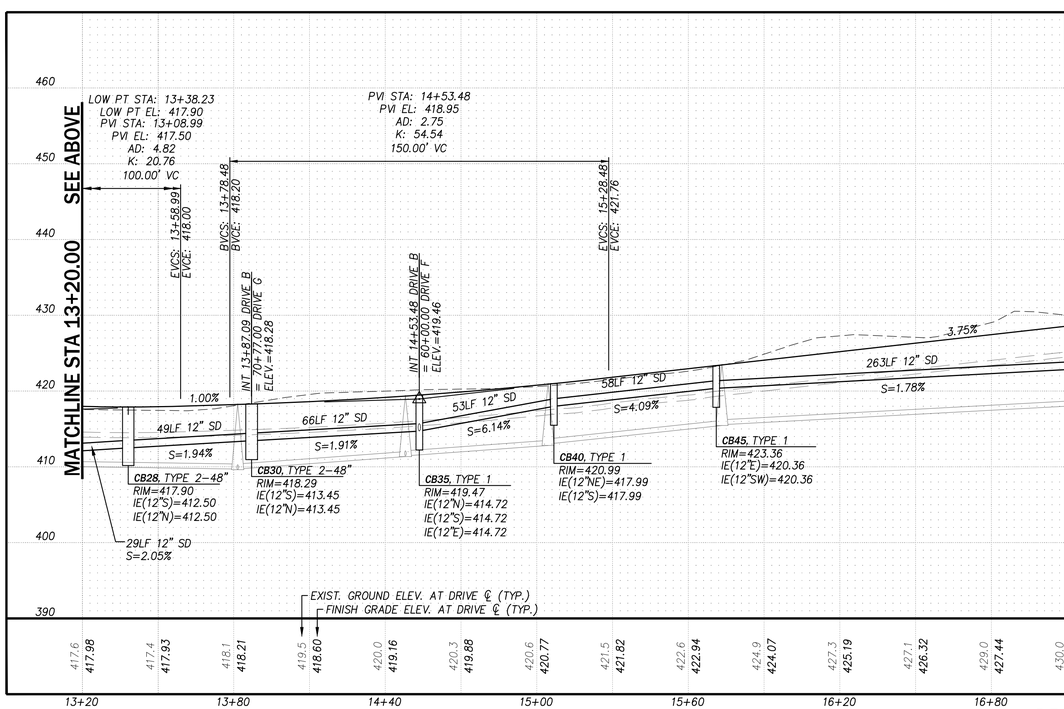

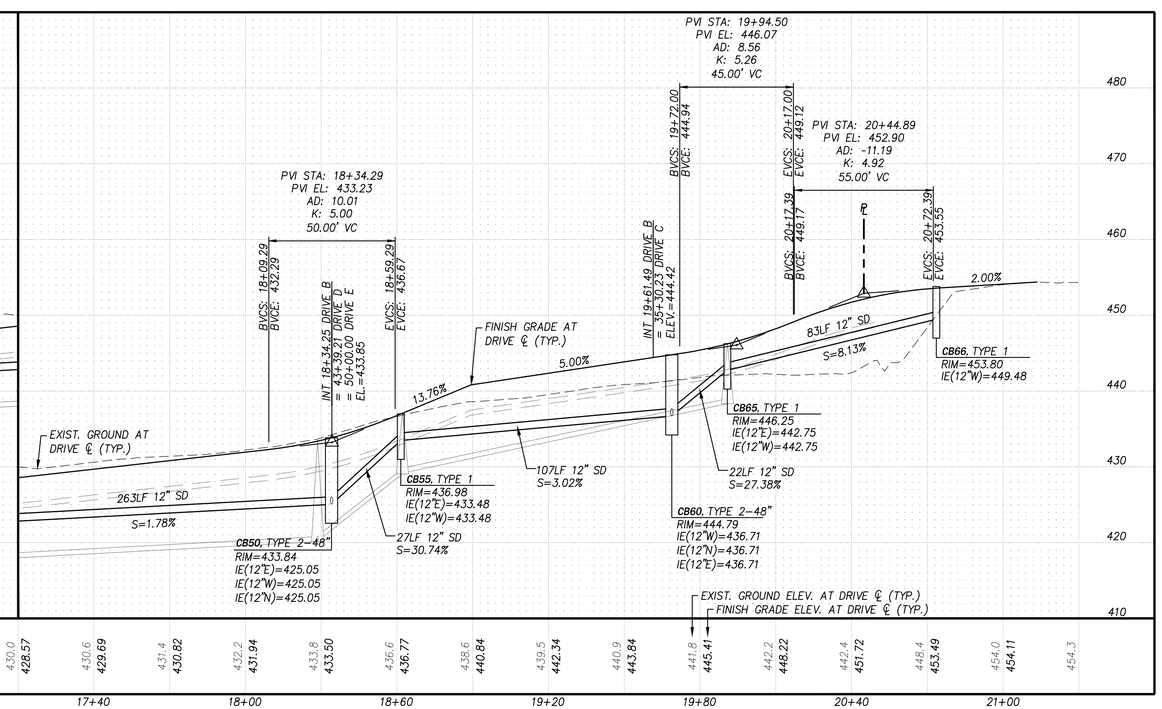

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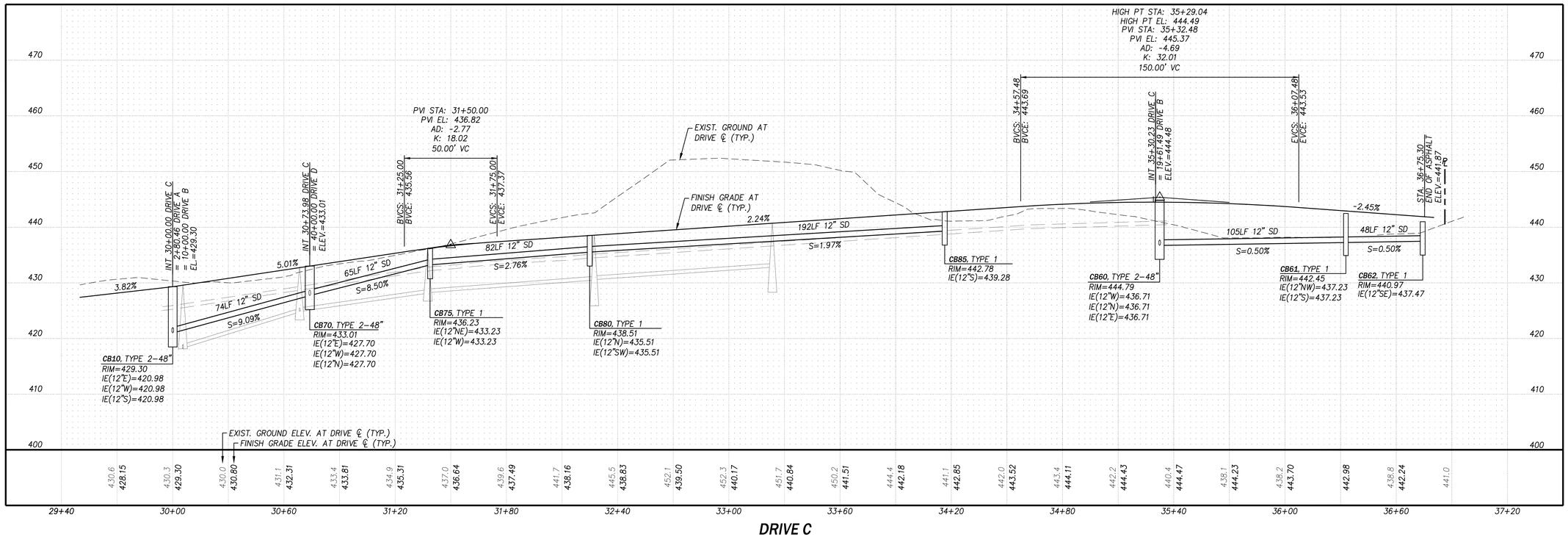

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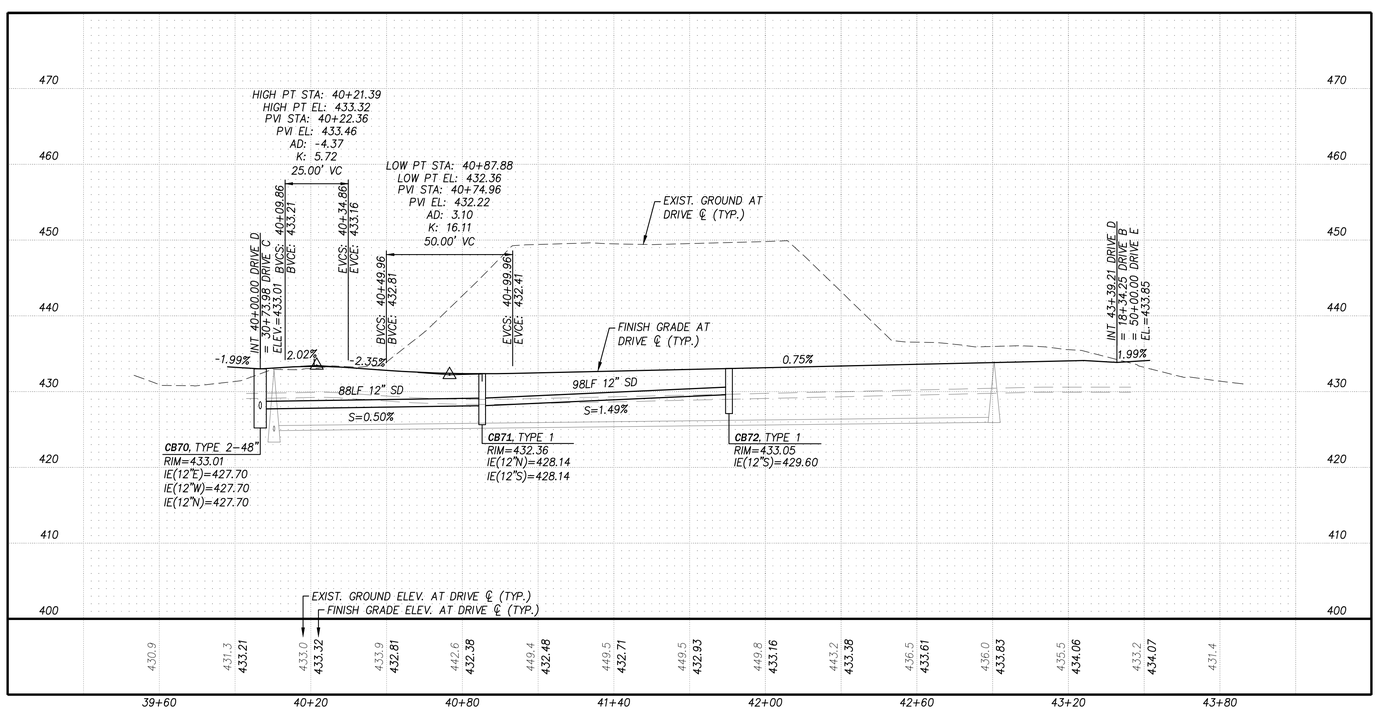

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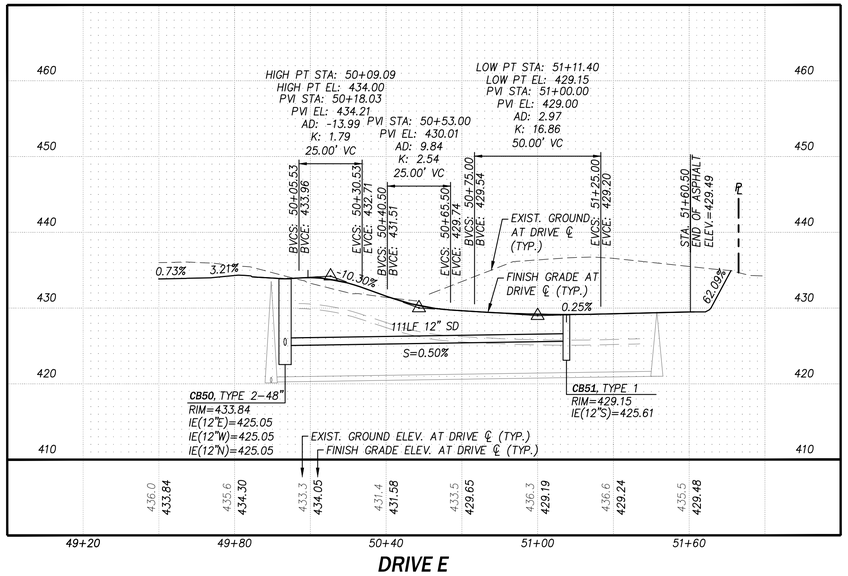

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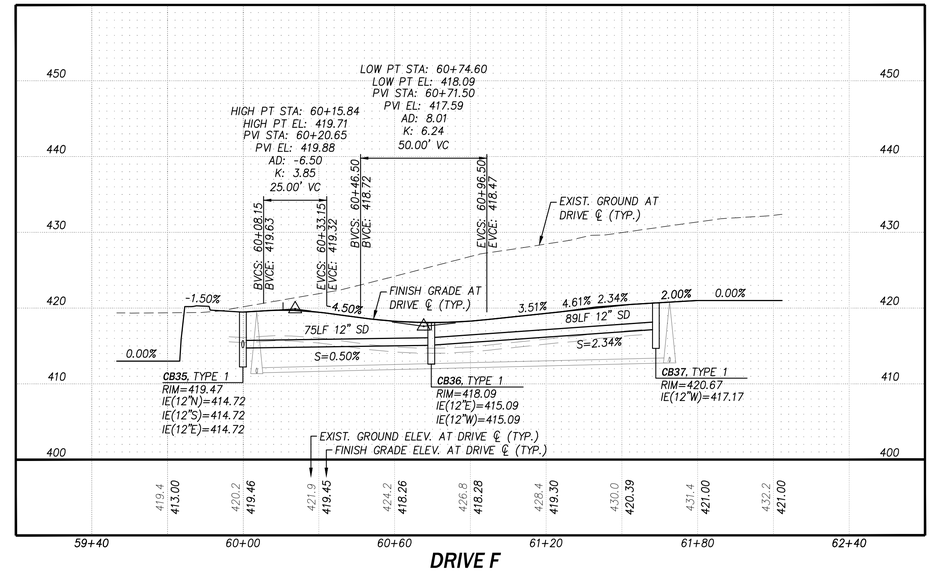

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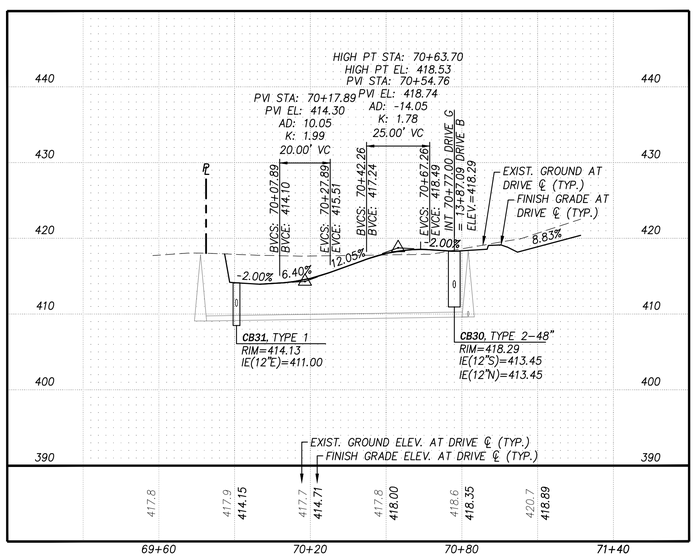

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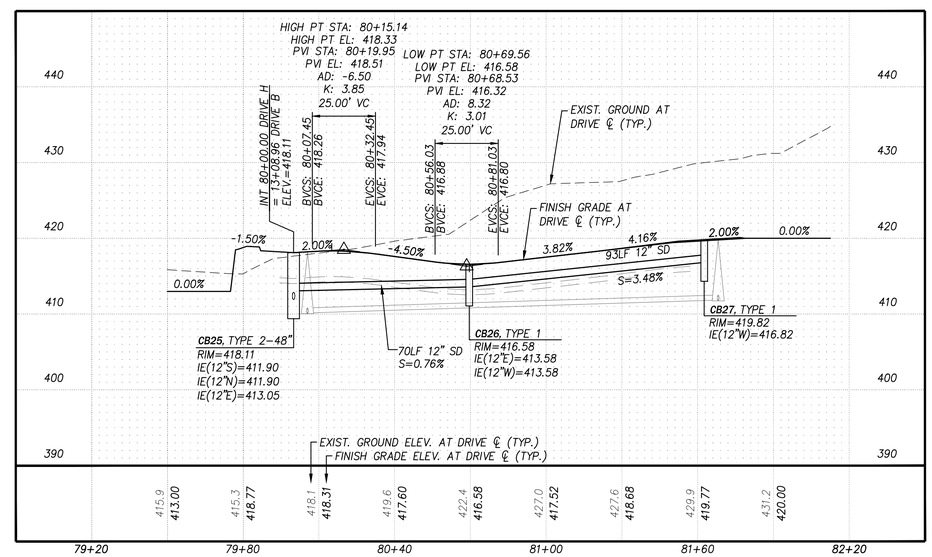

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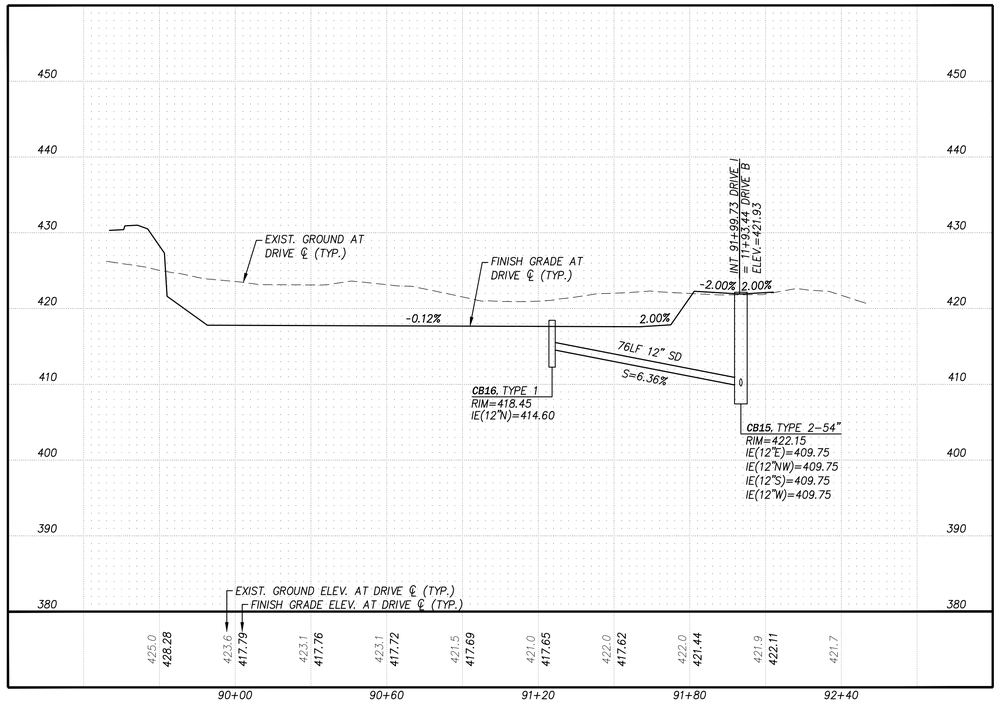

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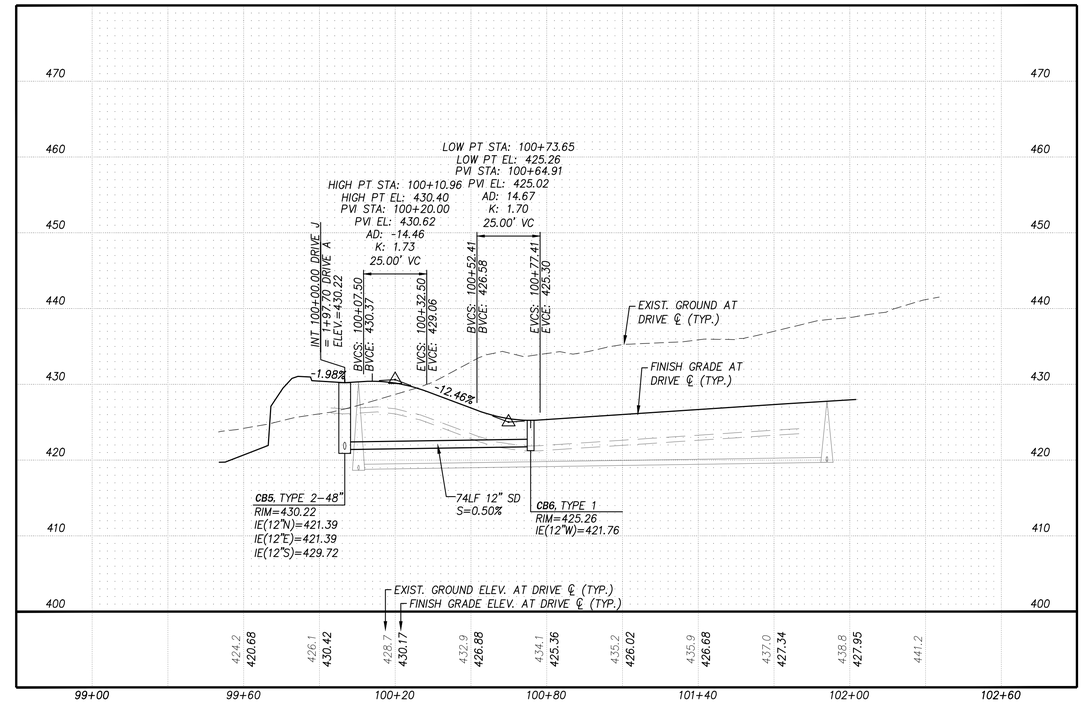

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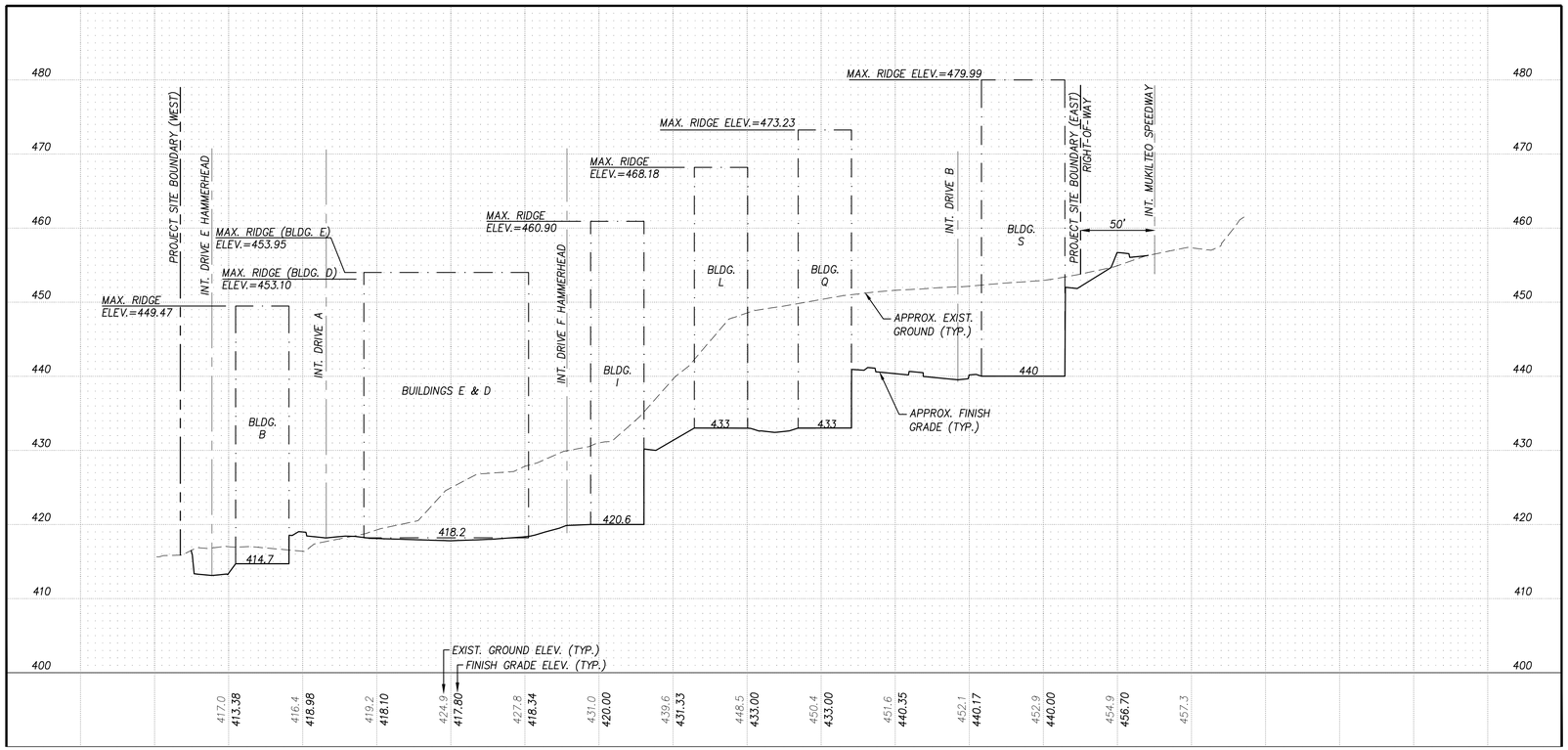

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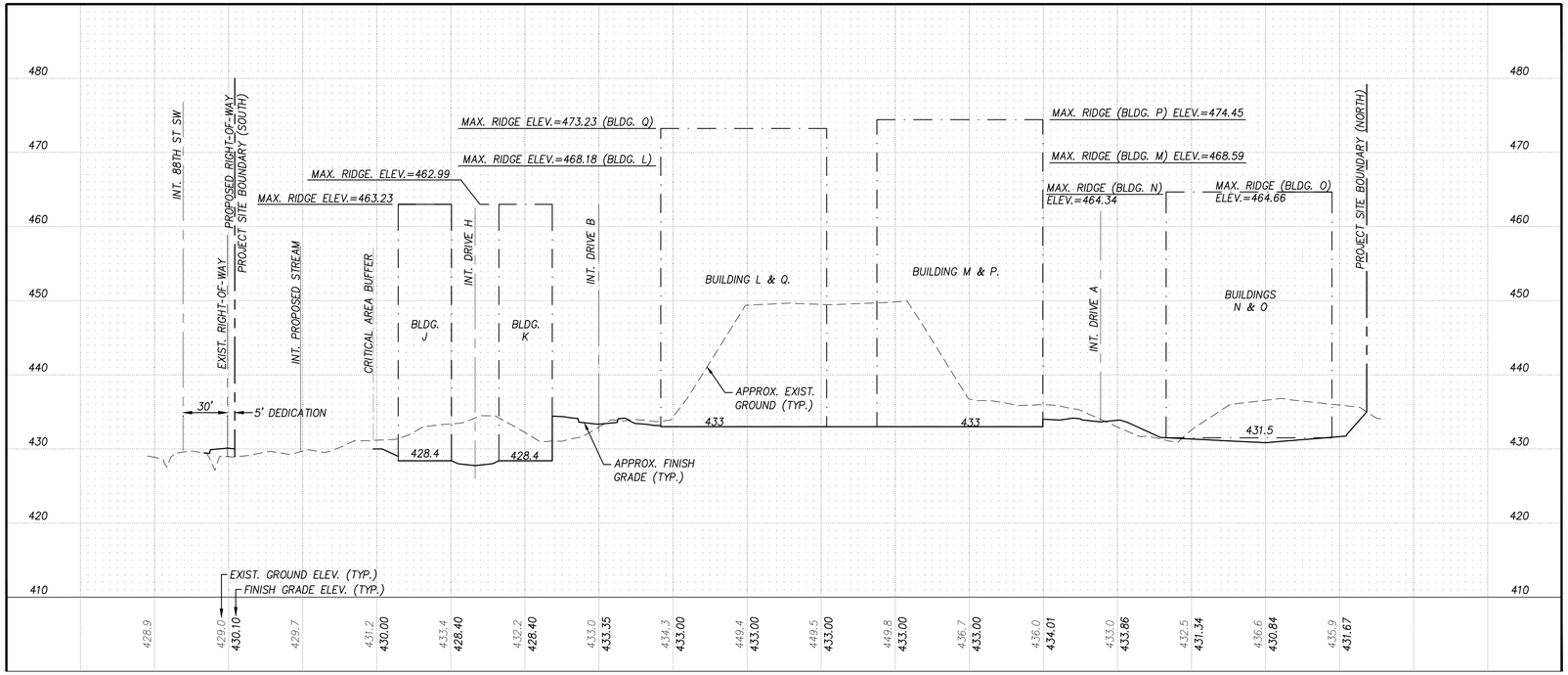

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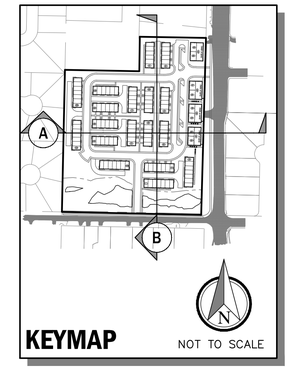

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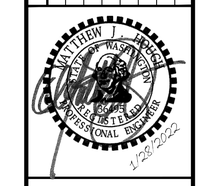

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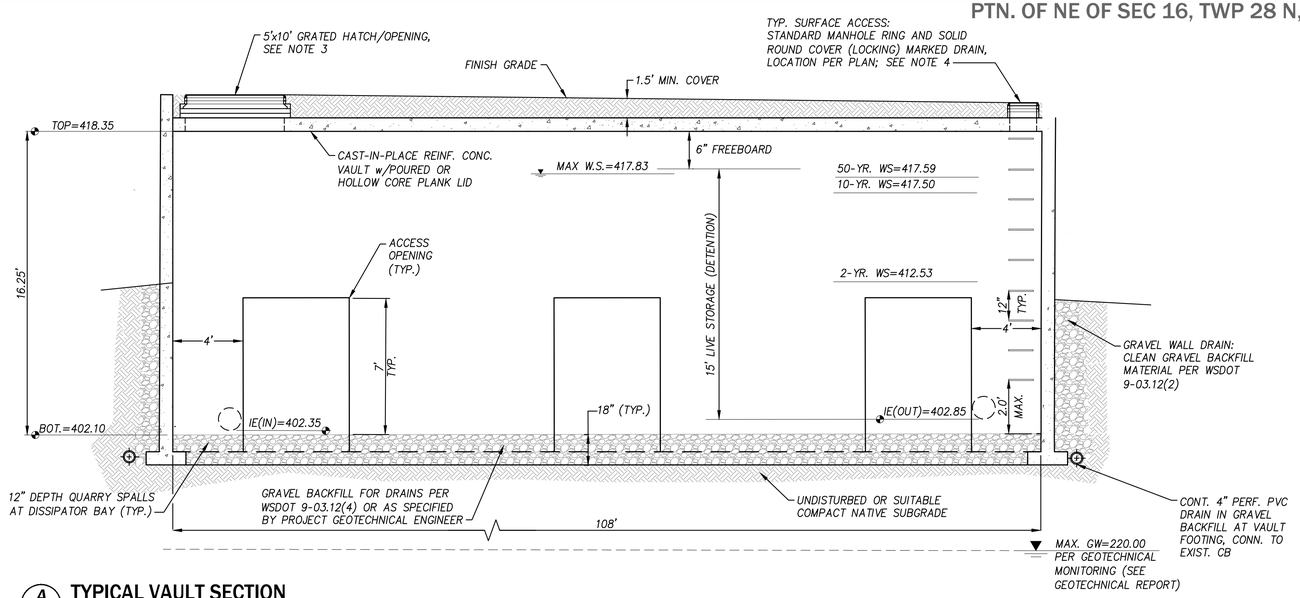

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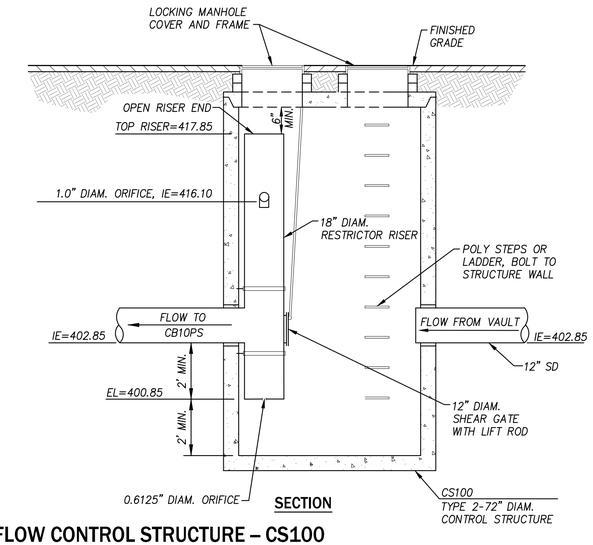

FLOW CONTROL STRUCTURE – CS100

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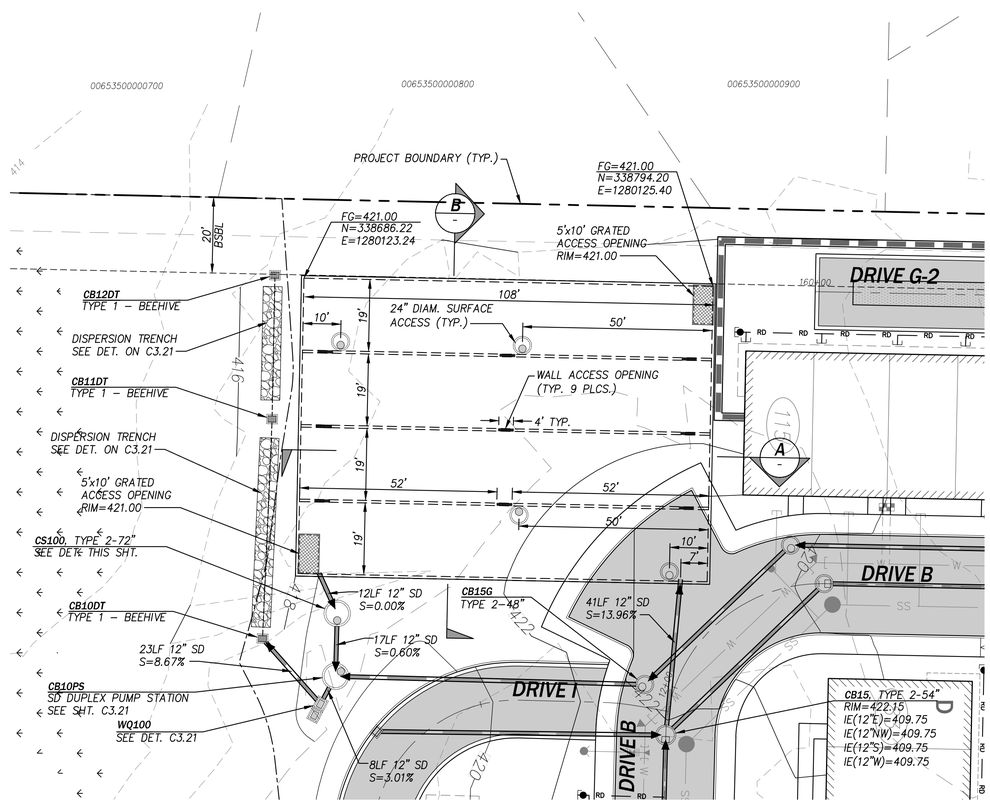

VAULT PLAN

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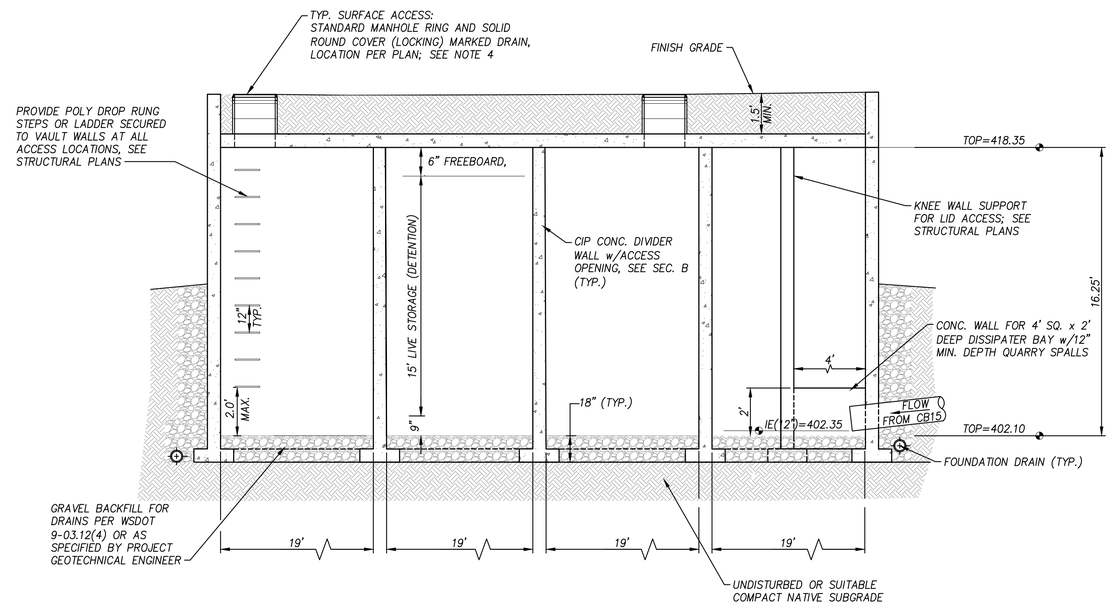

B TYPICAL VAULT SECTION

NOT TO SCALE

NOTES:

1. VAULTS AND ALL APPURTENANCES SHALL MEET THE STRUCTURAL REQUIREMENTS FOR OVERBURDEN SUPPORT UNDER A MINIMUM HS-25 TRAFFIC LOADING WITH ANY SPECIAL PROVISIONS OF THE STRUCTURAL PLANS AND DETAILS.
2. ALL METAL PARTS SHALL BE CORROSION RESISTANT STEEL PARTS SHALL BE STAINLESS STEEL, OR EQUIVALENT.
3. A CONTINUOUS PVC OR HYDROPHILIC WATER STOP SHALL BE INSTALLED AT ALL CAST-IN-PLACE CONCRETE CONSTRUCTION OR EXPANSION JOINTS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH MANUFACTURER DATA FOR THE SPECIFIC TYPE AND MODEL OF WATER STOP PROPOSED FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
4. THE 5'x10' VAULT ACCESS OPENING SHALL BE INSTALLED AT THE LOCATION SHOWN ON THIS PLAN IN ACCORDANCE WITH ANY ADDITIONAL PROVISIONS OF THE ACCOMPANYING STRUCTURAL PLANS AND DETAILS. THIS OPENING SHALL HAVE A PRE-MANUFACTURED LID INSTALLED FLUSH WITH ADJACENT FINISHED GRADES. THE TYPE OF COVER MAY BE A REMOVABLE GRATE, SPRING-LOADED HATCH, SOLID, OR EQUIVALENT COMBINATION THAT PROVIDES A CLEAR OPENING OF 5'X10'. THE LID SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS FOR THE SAME STRUCTURAL LOADING CONDITIONS AS THE ASSOCIATED VAULT AS PROVIDED ON THE STRUCTURAL PLANS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH MANUFACTURER AND SUPPORTING STRUCTURAL DESIGN DATA TO CONFIRM THESE DESIGN PARAMETERS FOR THE ACTUAL TYPE AND MODEL OF THE VAULT ACCESS PROPOSED FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
5. RIM ELEVATIONS SHALL BE ADJUSTED AS REQUIRED TO ACCOMMODATE ACTUAL ACCESS LOCATIONS AND FINISHED GRADE CONDITIONS.
6. ALL UNSUITABLE SOILS SHALL BE REMOVED FROM FOOTPRINT OF VAULT AND TO A DISTANCE BEYOND THE VAULT EQUAL TO THE DEPTH OF OVER EXCAVATED MATERIAL IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. ALL UNSUITABLE MATERIAL SHALL BE REPLACED WITH SUITABLE COMPACT STRUCTURAL FILL MATERIAL
7. VAULT LOCATION COORDINATES AND DIMENSIONS REFERENCE FINISHED INSIDE WALL UNLESS NOTED OTHERWISE.

DETENTION VAULT DATA						
STORM EVENT	LIVE STORAGE VOLUME (CF)			RELEASE RATE (CFS)		
	REQUIRED	DESIGNED (VAULT)	AS-BUILT	REQUIRED	DESIGNED	AS-BUILT
2-YR	79,453	79,453		0.081	0.040	
10-YR	120,247	120,247		0.153	0.116	
50-YR	120,986	120,986		0.234	0.259	

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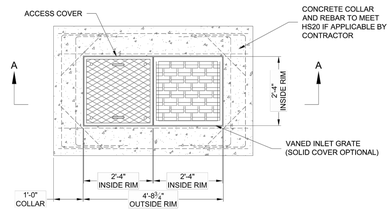
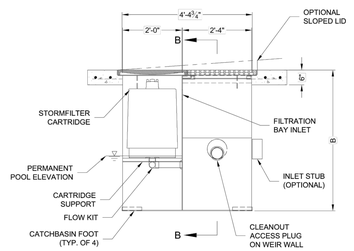


PLAN VIEW



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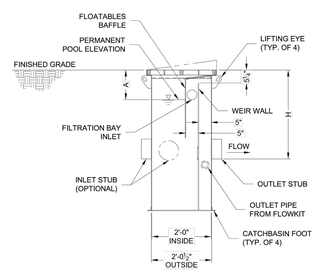


SECTION B-B

STORMFILTER STEEL CATCHBASIN DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. 1 CARTRIDGE CATCHBASIN HAS A MAXIMUM OF ONE CARTRIDGE. SYSTEM IS SHOWN WITH A 27" CARTRIDGE, AND IS ALSO AVAILABLE WITH AN 18" CARTRIDGE. STORMFILTER CATCHBASIN CONFIGURATIONS ARE AVAILABLE WITH A DRY INLET BAY FOR VECTOR CONTROL.
PEAK HYDRAULIC CAPACITY PER TABLE BELOW. IF THE SITE CONDITIONS EXCEED PEAK HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27"			18"			18" DEEP		
RECOMMENDED HYDRAULIC DROP (H)	3.05'			2.3'			3.3'		
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf
CARTRIDGE FLOW RATE (gpm)	22.5	18.79	11.25	15	12.53	7.5	15	12.53	7.5
PEAK HYDRAULIC CAPACITY	1.0			1.0			1.8		
INLET PERMANENT POOL LEVEL (A)	1'-0"			1'-0"			2'-0"		
OVERALL STRUCTURE HEIGHT (B)	4'-9"			3'-9"			4'-9"		

* 1.67 gpm/sf SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
3. STORMFILTER CATCHBASIN WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
4. INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
5. MANUFACTURER TO APPLY A SURFACE BEAD WELD IN THE SHAPE OF THE LETTER "O" ABOVE THE OUTLET PIPE STUB ON THE EXTERIOR SURFACE OF THE STEEL SFCB.
6. STORMFILTER CATCHBASIN EQUIPPED WITH 4 INCH (APPROXIMATE) LONG STUBS FOR INLET (IF APPLICABLE) AND OUTLET PIPING. STANDARD OUTLET STUB IS 8 INCHES IN DIAMETER. MAXIMUM OUTLET STUB IS 15 INCHES IN DIAMETER. CONNECTION TO COLLECTION PIPING CAN BE MADE USING FLEXIBLE COUPLING BY CONTRACTOR.
7. STEEL STRUCTURE TO BE MANUFACTURED OF 1/4 INCH STEEL PLATE. CASTINGS SHALL MEET AASHTO M306 LOAD RATING. TO MEET HS20 LOAD RATING ON STRUCTURE, A CONCRETE COLLAR IS REQUIRED. WHEN REQUIRED, CONCRETE COLLAR WITH #4 REINFORCING BARS TO BE PROVIDED BY CONTRACTOR.
8. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
9. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CATCHBASIN (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

1-CARTRIDGE CATCHBASIN STORMFILTER DATA

STRUCTURE ID	WQ100
WATER QUALITY FLOW RATE (cfs)	0.0403
PEAK FLOW RATE (<1 cfs)	0.3548
RETURN PERIOD OF PEAK FLOW (yrs)	100
CARTRIDGE HEIGHT (27", 18", 18" DEEP)	27"
CARTRIDGE FLOW RATE (gpm)	18.79
MEDIA TYPE (PERLITE, ZPG, PSORB)	ZPG
RIM ELEVATION	420.25

PIPE DATA:	I.E.	DIAMETER
INLET STUB	417.20	12"
OUTLET STUB	416.75	12"

CONFIGURATION — OUTLET, INLET, INLET, OUTLET, INLET, INLET

SLOPED LID	YES\NO
SOLID COVER	YES\NO
NOTES/SPECIAL REQUIREMENTS:	

CONTECH ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-526-3999 513-645-7000 513-645-7993 FAX

1 CARTRIDGE CATCHBASIN
STORMFILTER
STANDARD DETAIL

STORMFILTER STEEL CATCHBASIN DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. 2 CARTRIDGE CATCHBASIN HAS A MAXIMUM OF TWO CARTRIDGES. SYSTEM IS SHOWN WITH A 27" CARTRIDGE, AND IS ALSO AVAILABLE WITH AN 18" CARTRIDGE. STORMFILTER CATCHBASIN CONFIGURATIONS ARE AVAILABLE WITH A DRY INLET BAY FOR VECTOR CONTROL.
PEAK HYDRAULIC CAPACITY PER TABLE BELOW. IF THE SITE CONDITIONS EXCEED PEAK HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

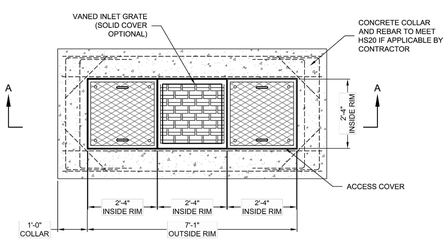
CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27"			18"			18" DEEP		
RECOMMENDED HYDRAULIC DROP (H)	3.05'			2.3'			3.3'		
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf
CARTRIDGE FLOW RATE (gpm)	22.5	18.79	11.25	15	12.53	7.5	15	12.53	7.5
PEAK HYDRAULIC CAPACITY	1.0			1.0			1.8		
INLET PERMANENT POOL LEVEL (A)	1'-0"			1'-0"			2'-0"		
OVERALL STRUCTURE HEIGHT (B)	4'-9"			3'-9"			4'-9"		

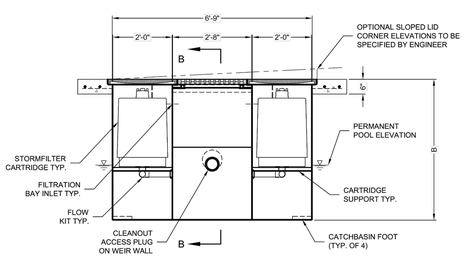
* 1.67 gpm/sf SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. WWW.CONTECHES.COM
3. STORMFILTER CATCHBASIN WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
4. INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
5. MANUFACTURER TO APPLY A SURFACE BEAD WELD IN THE SHAPE OF THE LETTER "O" ABOVE THE OUTLET PIPE STUB ON THE EXTERIOR SURFACE OF THE STEEL SFCB.
6. STORMFILTER CATCHBASIN EQUIPPED WITH 4 INCH (APPROXIMATE) LONG STUBS FOR INLET (IF APPLICABLE) AND OUTLET PIPING. STANDARD OUTLET STUB IS 8 INCHES IN DIAMETER. MAXIMUM OUTLET STUB IS 15 INCHES IN DIAMETER. CONNECTION TO COLLECTION PIPING CAN BE MADE USING FLEXIBLE COUPLING BY CONTRACTOR.
7. STEEL STRUCTURE TO BE MANUFACTURED OF 1/4 INCH STEEL PLATE. CASTINGS SHALL MEET AASHTO M306 LOAD RATING. TO MEET HS20 LOAD RATING ON STRUCTURE, A CONCRETE COLLAR IS REQUIRED. WHEN REQUIRED, CONCRETE COLLAR WITH #4 REINFORCING BARS TO BE PROVIDED BY CONTRACTOR.
8. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
9. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

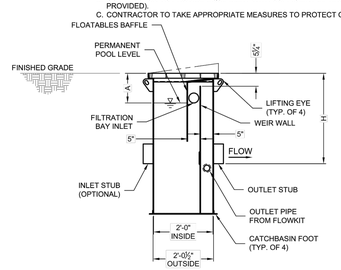
INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CATCHBASIN (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.



PLAN VIEW



SECTION A-A



SECTION B-B

2-CARTRIDGE DEEP CATCHBASIN STORMFILTER DATA

STRUCTURE ID	WQ200
WATER QUALITY FLOW RATE (cfs)	0.0309
PEAK FLOW RATE (<1.8 cfs)	0.3881
RETURN PERIOD OF PEAK FLOW (yrs)	100
CARTRIDGE FLOW RATE (gpm)	12.53
MEDIA TYPE (PERLITE, ZPG, PSORB)	ZPG
RIM ELEVATION	423.77

PIPE DATA:	I.E.	DIAMETER
INLET STUB	420.52	12"
OUTLET STUB	420.52	12"

CONFIGURATIONS — OUTLET, INLET, OUTLET, INLET, INLET, OUTLET, INLET, INLET

SLOPED LID	YES\NO
SOLID COVER	YES\NO
NOTES/SPECIAL REQUIREMENTS:	

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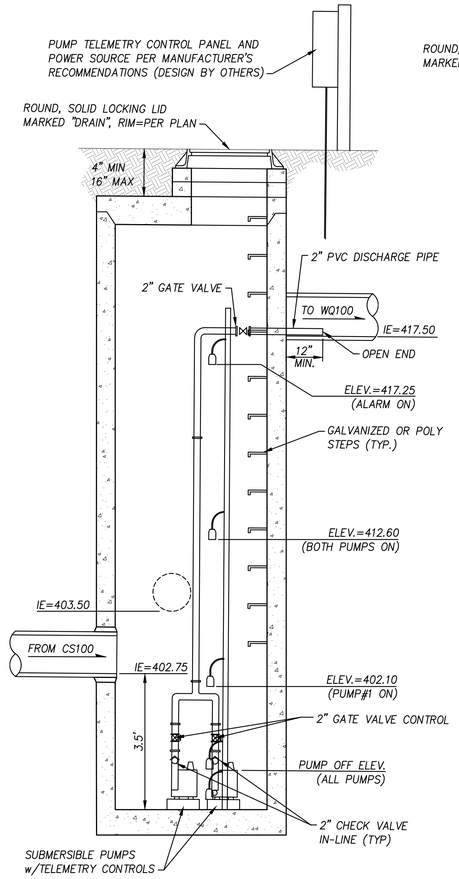
800-526-3999 513-645-7000 513-645-7993 FAX

2 CARTRIDGE CATCHBASIN
STORMFILTER
STANDARD DETAIL



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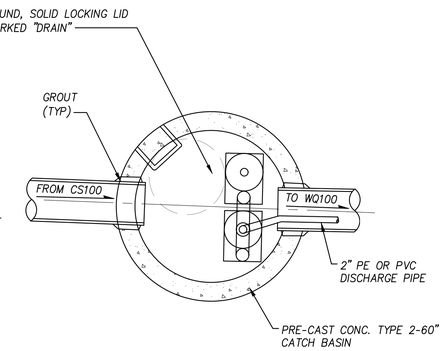
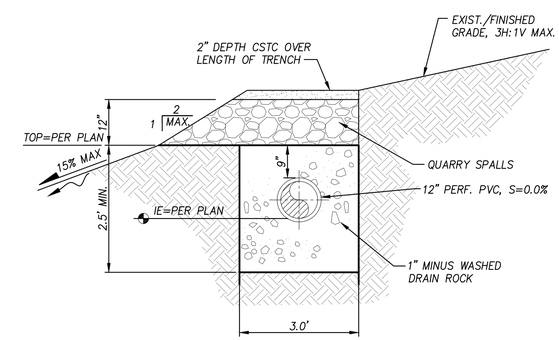


PLAN

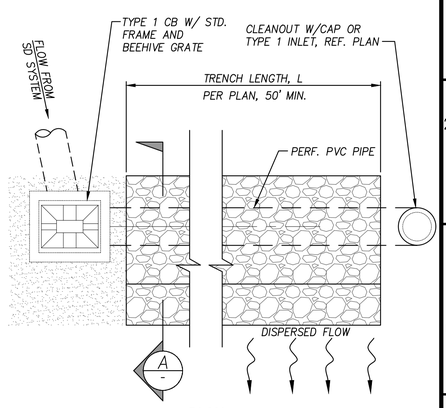
NOTES:
1. THIS DETAIL PROVIDES GENERAL PERFORMANCE, DESIGN, AND INSTALLATION CRITERIA FOR A DESIGN-BUILD, PRE-MANUFACTURED AND PACKAGED PUMP STATION SYSTEM. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND PUMP PERFORMANCE CALCULATIONS CONFORMING TO THE SPECIFICATIONS FOR THE PROJECT INCLUDING THE INFORMATION PROVIDED BY THIS DETAIL.
2. DUPLEX PUMPS SHALL BE LOW-FLOW SUBMERSIBLE SEWAGE TYPE CAPABLE OF MEETING THE FOLLOWING PERFORMANCE SPECIFICATIONS:
   - TOTAL DYNAMIC HEAD = 15.5 FT
   - MIN. DISCHARGE CAPACITY = 18 GPM/PUMP
   - MAX. DISCHARGE CAPACITY = 80 GPM/PUMP
   - CONTINUOUS DUTY, SINGLE PHASED, 230V
   - 2" HORIZONTAL ANSI FLANGE
   - PROVIDE ON, OFF AND ALARM FLOAT SWITCHES
   - ALTERNATING DUPLEX PUMP TELEMETRY CONTROL PANEL TO BE DESIGNED AND INSTALLED BY QUALIFIED ELECTRICIAN PER NATIONAL ELECTRICAL CODE
   - SECURE/LOCKABLE OUTDOOR DUPLEX CONTROL PANEL
   - PUMPS SHALL ALTERNATE
   - AUDIO/VISUAL ALARM WITH BATTERY BACKUP
   - EMERGENCY GENERATOR BACKUP POWER CONNECTION AT CONTROL PANEL
3. REPRESENTATIVE OF THE PUMP MANUFACTURER SHALL BE ON SITE TO INSPECT THE INSTALLATION OF THE SYSTEM.

STORM DRAINAGE DUPLEX PUMP STATION

NOT TO SCALE



SECTION A



PLAN

GRAVEL DISPERSION TRENCH

NOT TO SCALE

NO.	DATE	REVISION	BY	CK.
1	1/26/22	LAND USE SUBMITTAL	PCE	MJH

MATTHEW J. HEINCK — STATE OF WASHINGTON — 40260 — REGISTERED PROFESSIONAL ENGINEER — 1/28/2022

CARRIK COURT

MIXED-USE COMMERCIAL LAND USE PERMIT

STORM DRAINAGE DETAILS

CITY OF MUKILTEO — SNOHOMISH COUNTY, WASHINGTON

CLIENT
214-WLD CARRIK COURT, LLC
1010 MARKET STREET
KIRKLAND, WA 98033
PHONE: (425) 576-9390
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Landscape Architecture • Land Use Consulting
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101 South Wenatchee Avenue, Suite C3
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www.cphconsultants.com

PROJECT NO. 0054-20-034

DRAWING C3.21

SHEET 18 OF 32

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CSIT542034
CUSD542034
CUWS542034

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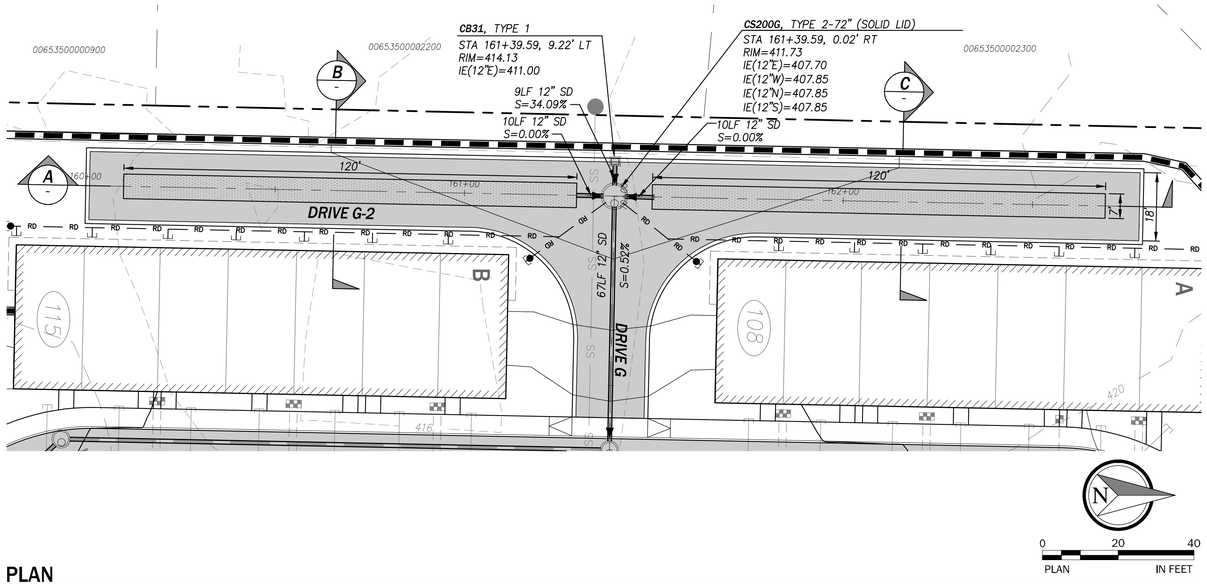

PLAN

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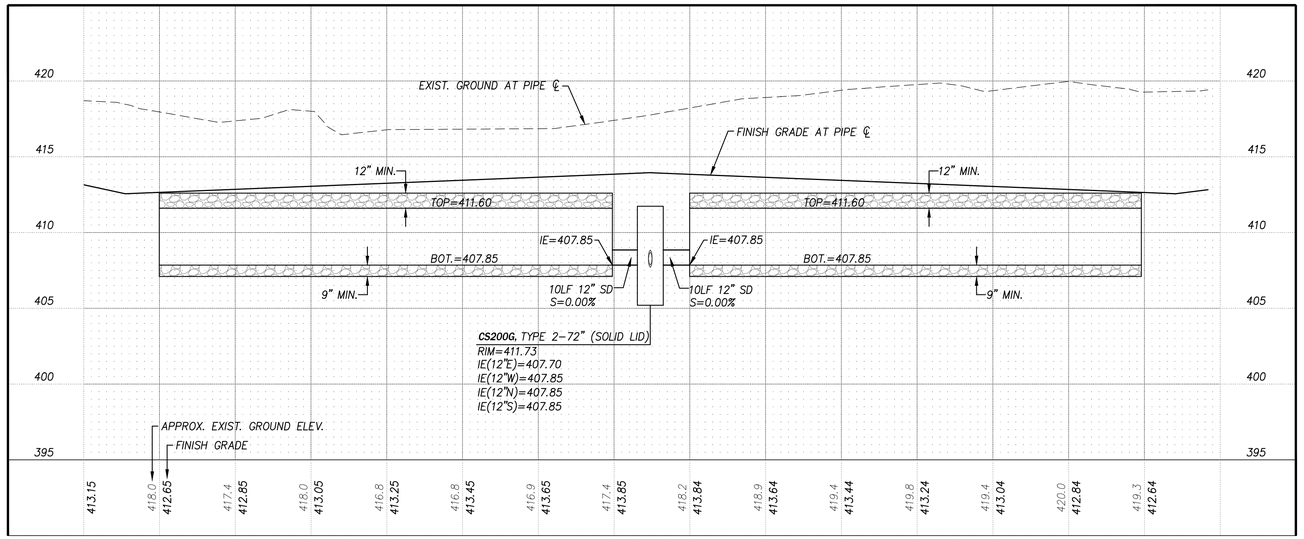
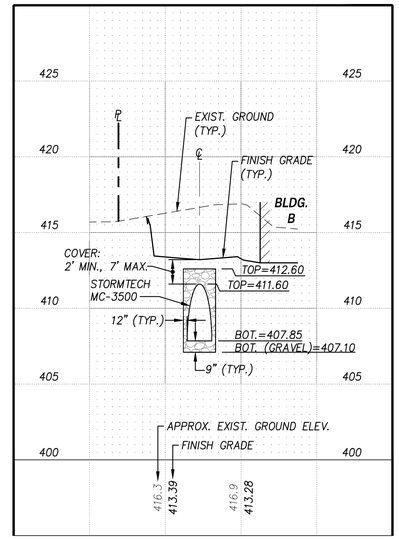


A TYPICAL INFILTRATION GALLERY

SCALE: 1"=20' HOR.
1"=5' VERT.



B TYPICAL INFILTRATION GALLERY

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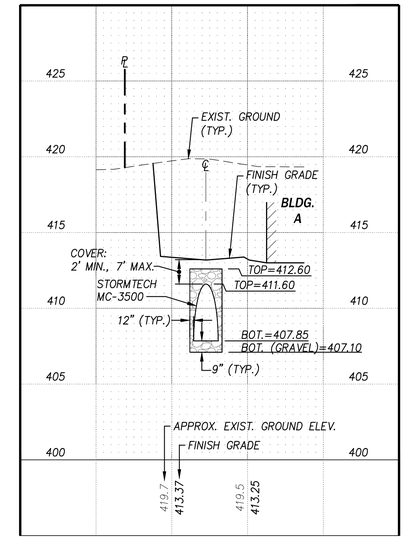
1"=5' VERT.



C TYPICAL INFILTRATION GALLERY

SCALE: 1"=20' HOR.
1"=5' VERT.

NO.	DATE	REVISION	BY	CK.
1	1/26/22	LAND USE SUBMITTAL	PCE	MJH

MATTHEW J. HEUCH
STATE OF WASHINGTON
40360
REGISTERED PROFESSIONAL ENGINEER
1/28/2022

CARRIK COURT

MIXED-USE COMMERCIAL LAND USE PERMIT

CHAMBER DETAILS

CITY OF MUKILTEO
SNOHOMISH COUNTY, WASHINGTON

CLIENT

214-WLD CARRIK COURT, LLC
1010 MARKET STREET
KIRKLAND, WA 98033
PHONE: (425) 576-9390
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PROJECT NO.
0054-20-034

DRAWING
C3.22

SHEET 19 OF 32

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TBLOCK

PTN. OF NE OF SEC 16, TWP 28 N, R4E W.M.

ADVANCED DRAINAGE SYSTEMS, INC.

STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500.
2. CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
5. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
   a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
   b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
   c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

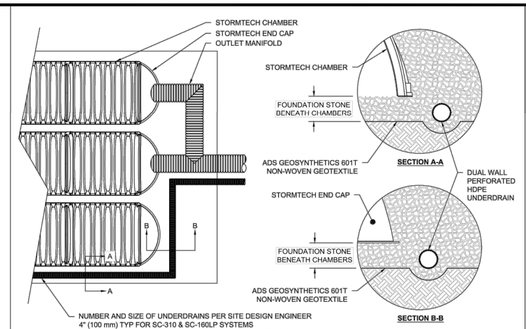
1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

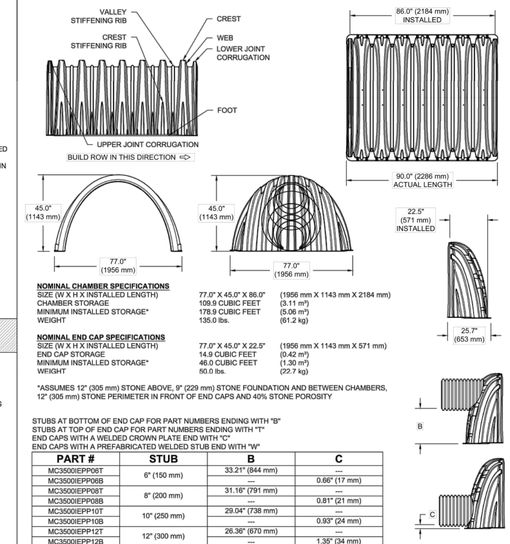
1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



5 UNDERDRAIN DETAIL



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	178.9 CUBIC FEET	(5.06 m³)
WEIGHT	135.0 lbs.	(61.2 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 22.5"	(1956 mm X 1143 mm X 571 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	46.0 CUBIC FEET	(1.30 m³)
WEIGHT	50.0 lbs.	(22.7 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

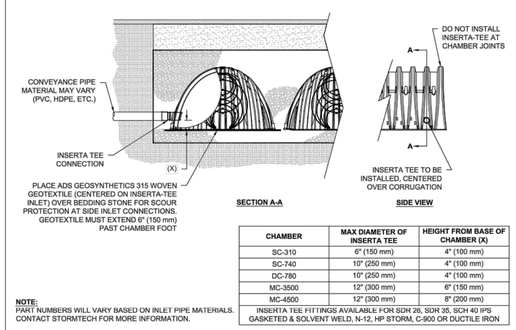
STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18TW			
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP18BW			
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24TW			
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP24BW			
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

CUSTOM PRECORED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

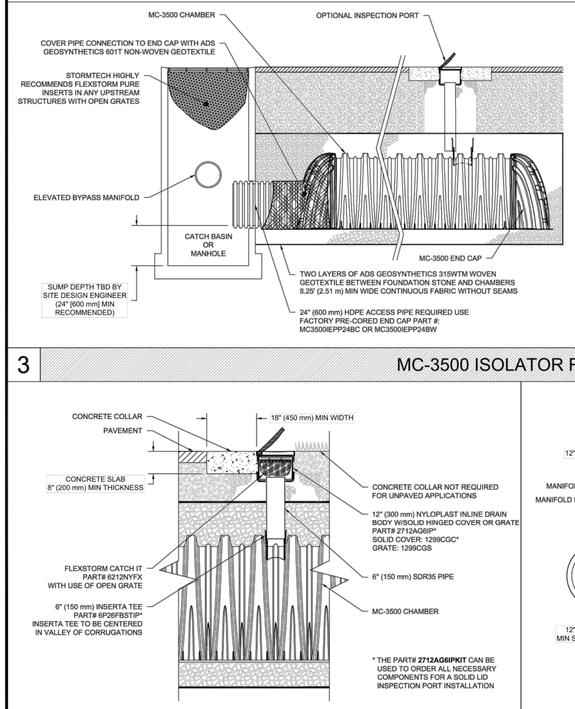
2 MC-3500 TECHNICAL SPECIFICATIONS



CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)

NOTE:
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.
INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON

6 INSERTA-TEE SIDE INLET DETAIL



INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

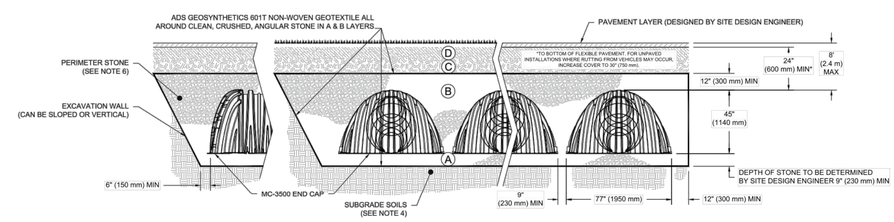
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

3 MC-3500 ISOLATOR ROW DETAIL

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



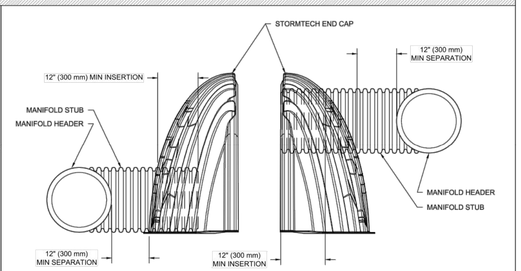
NOTES:

1. MC-3500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
4. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
5. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
6. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

1 MC-3500 CROSS SECTION DETAIL

* THE PART# **2712AG6IPKIT** CAN BE USED TO ORDER ALL NECESSARY COMPONENTS FOR A SOLID LID INSPECTION PORT INSTALLATION

4 MC-3500 6" (150 mm) INSPECTION PORT DETAIL



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

7 MC-SERIES END CAP INSERTION DETAIL

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MC-3500 STANDARD DETAILS

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888-892-2694 | 888-892-2694 | WWW.STORMTECH.COM

4640 TRUEMAN BLVD
HILLIARD, OH 43026

ADS ADVANCED DRAINAGE SYSTEMS, INC.

SHEET
1 OF 1

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1/28/2022

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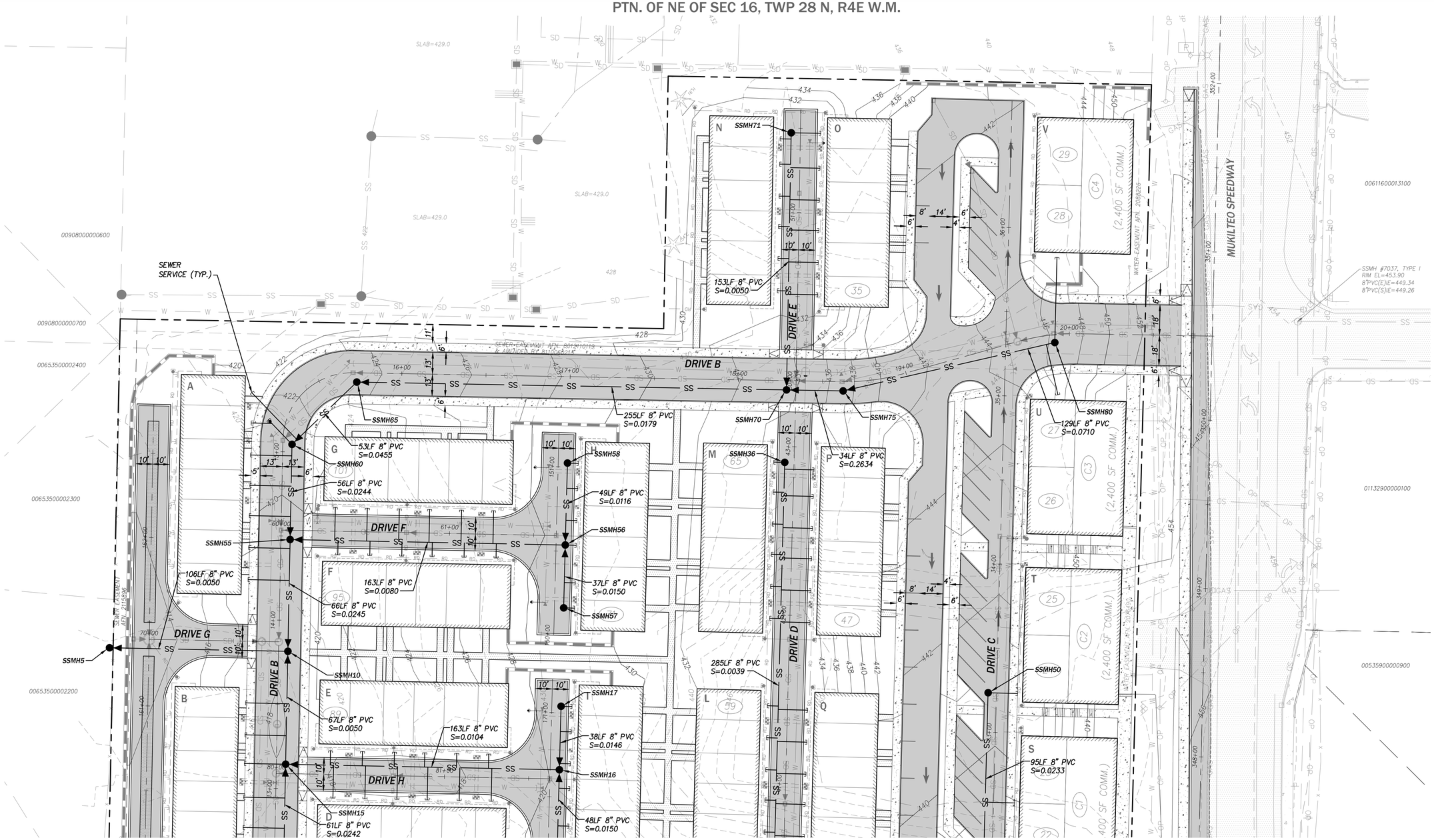

LEGEND

SD	STORM DRAIN
	TYPE 1 SD CATCH BASIN
	TYPE 2 SD CATCH BASIN
SS	SANITARY SEWER MAIN
●	STANDARD PRECAST SEWER MANHOLE
	SIDE SEWER SERVICE W/CLEANOUT
W	WATER MAIN
	WATER SERVICE (PIPE)
	WATER METER
	FIRE HYDRANT (FH)
	GATE VALVE
	AIR-VAC ASSEMBLY

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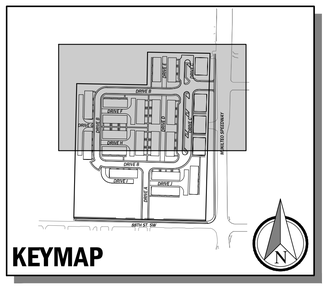

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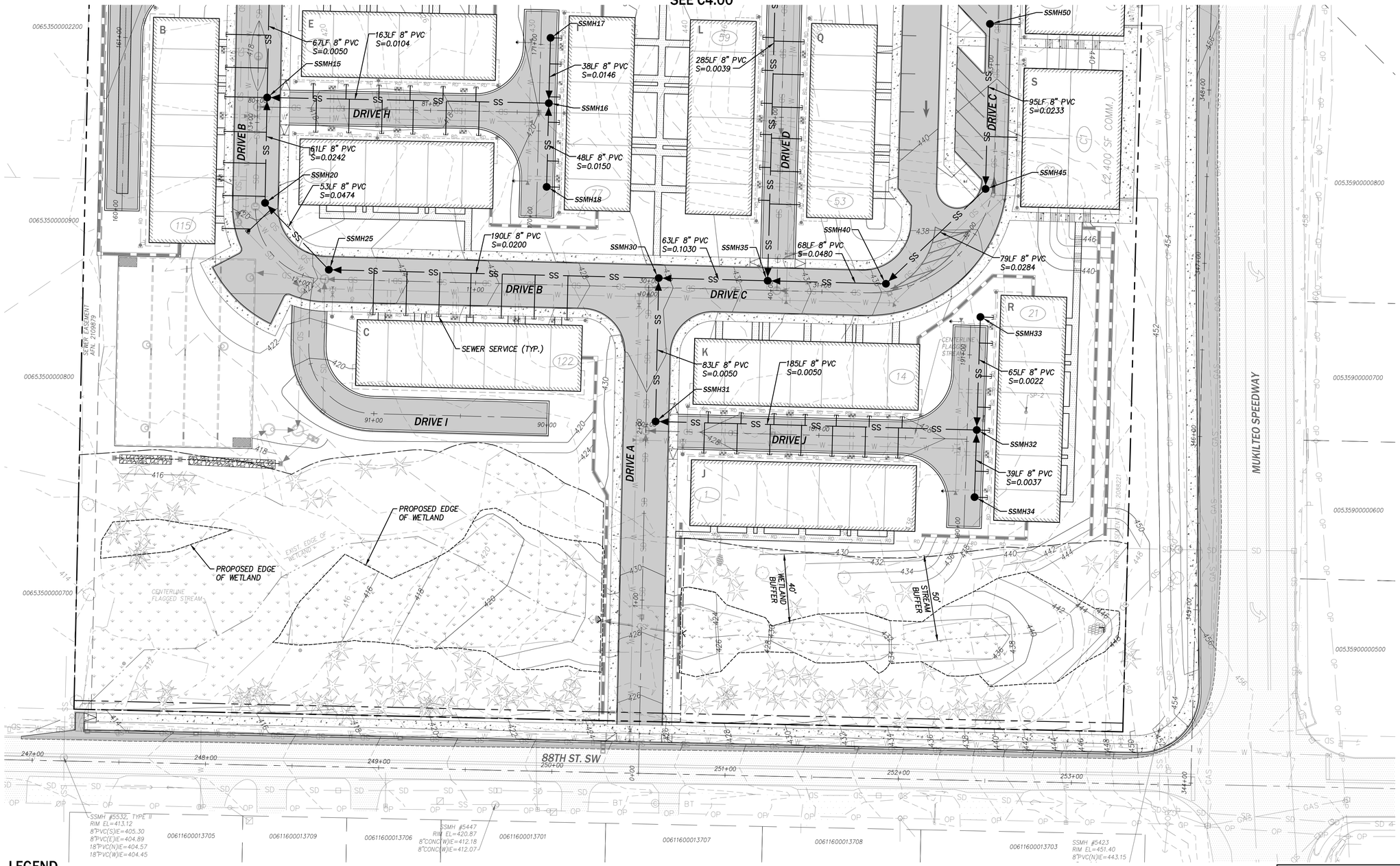

LEGEND

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	FIRE HYDRANT (FH)
	GATE VALVE
	AIR-VAC ASSEMBLY

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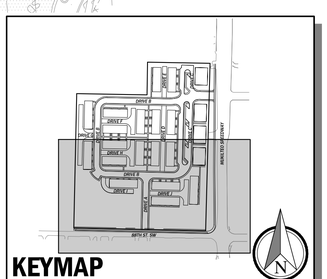

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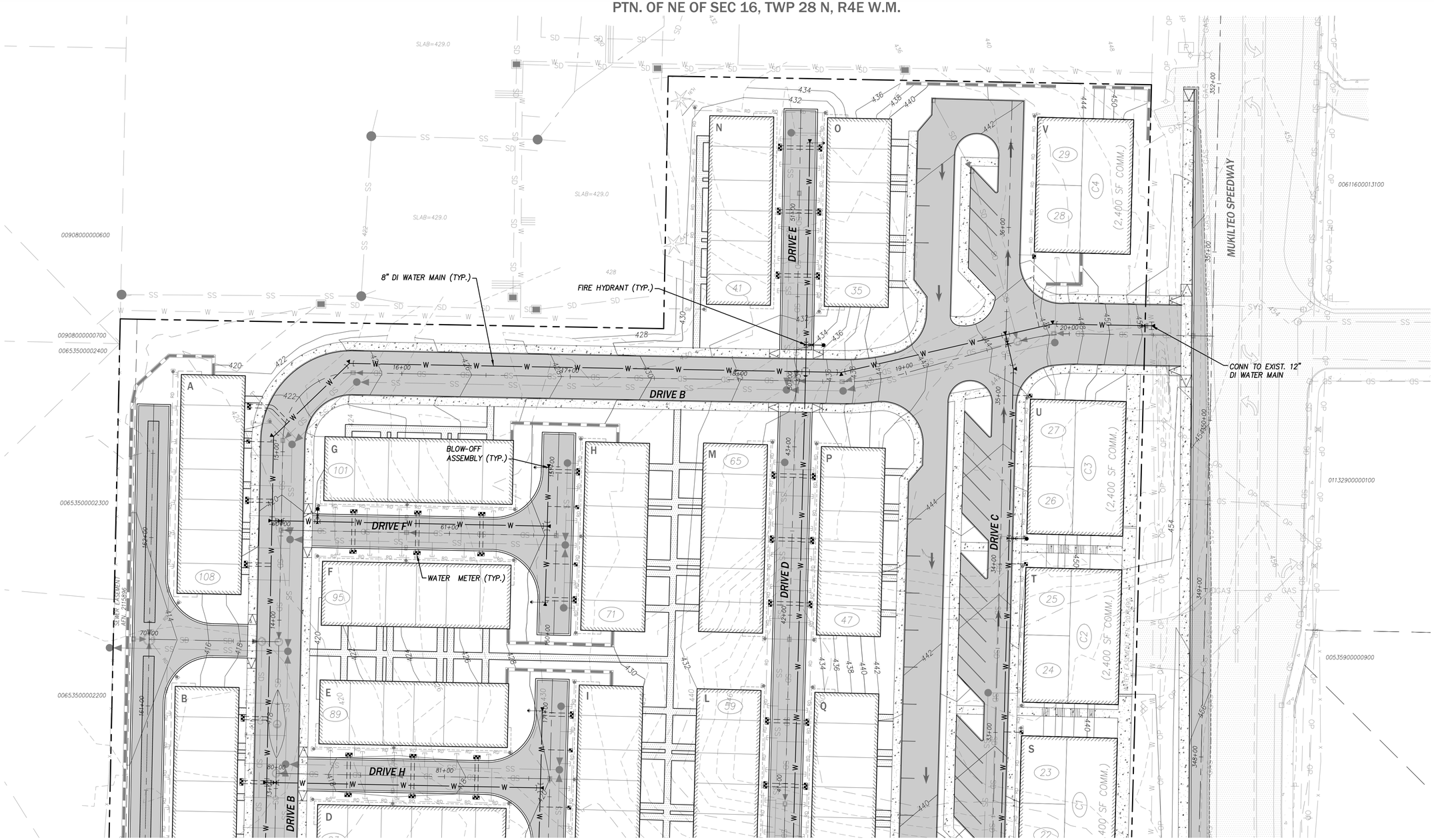

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LEGEND

- SD — STORM DRAIN
- TYPE 1 SD CATCH BASIN
- TYPE 2 SD CATCH BASIN
- SS — SANITARY SEWER MAIN
- STANDARD PRECAST SEWER MANHOLE
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- WATER METER
- FIRE HYDRANT (FH)
- GATE VALVE
- AIR-VAC ASSEMBLY

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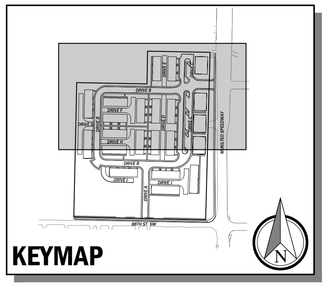

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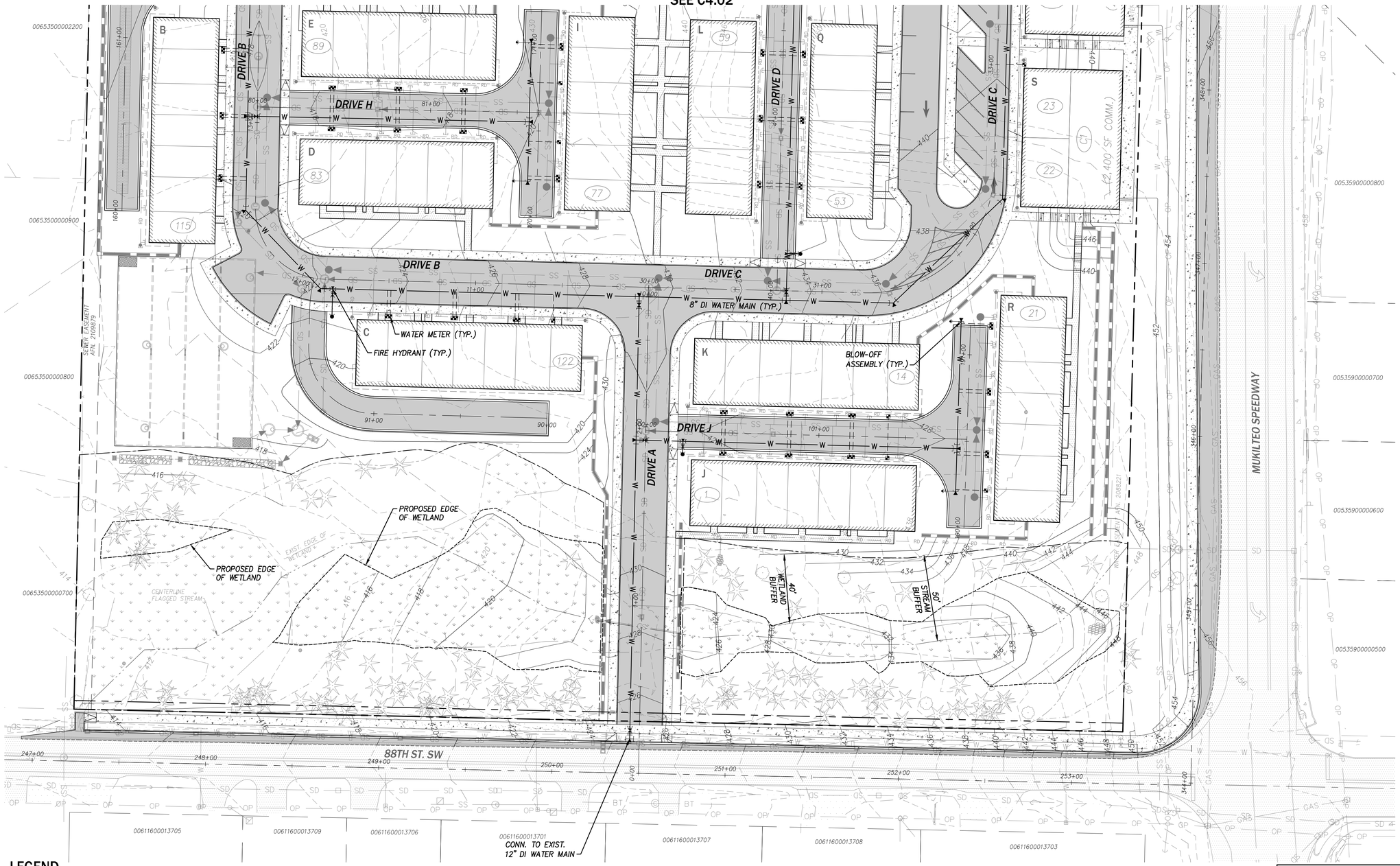

LEGEND

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	AIR-VAC ASSEMBLY

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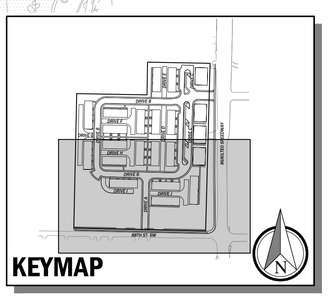

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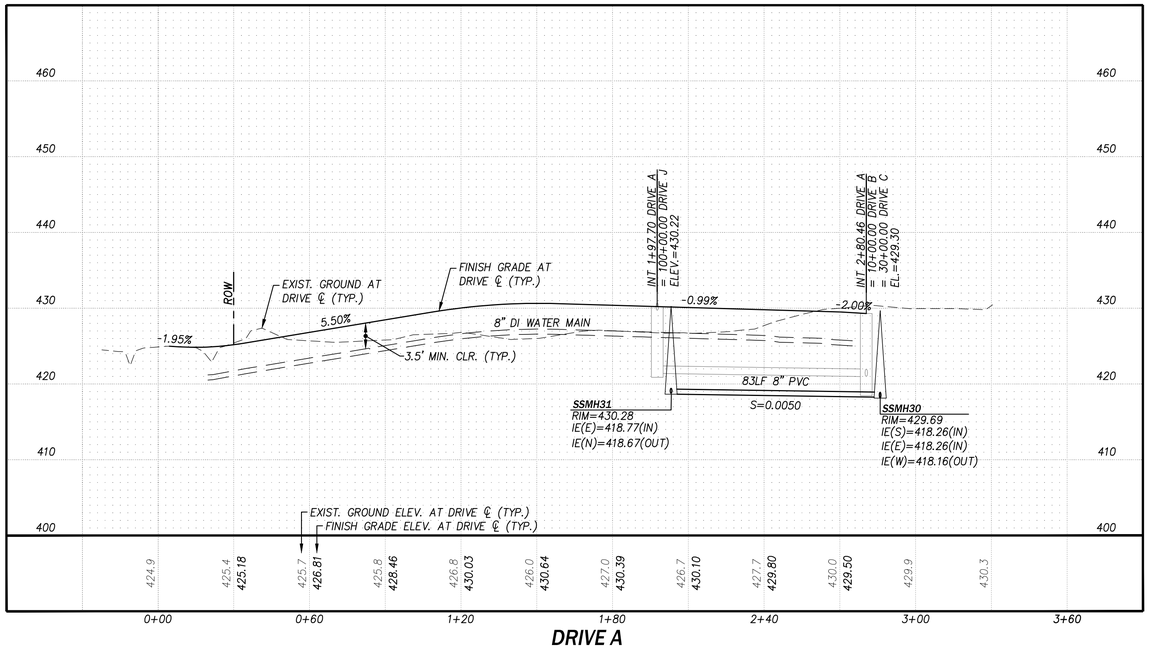

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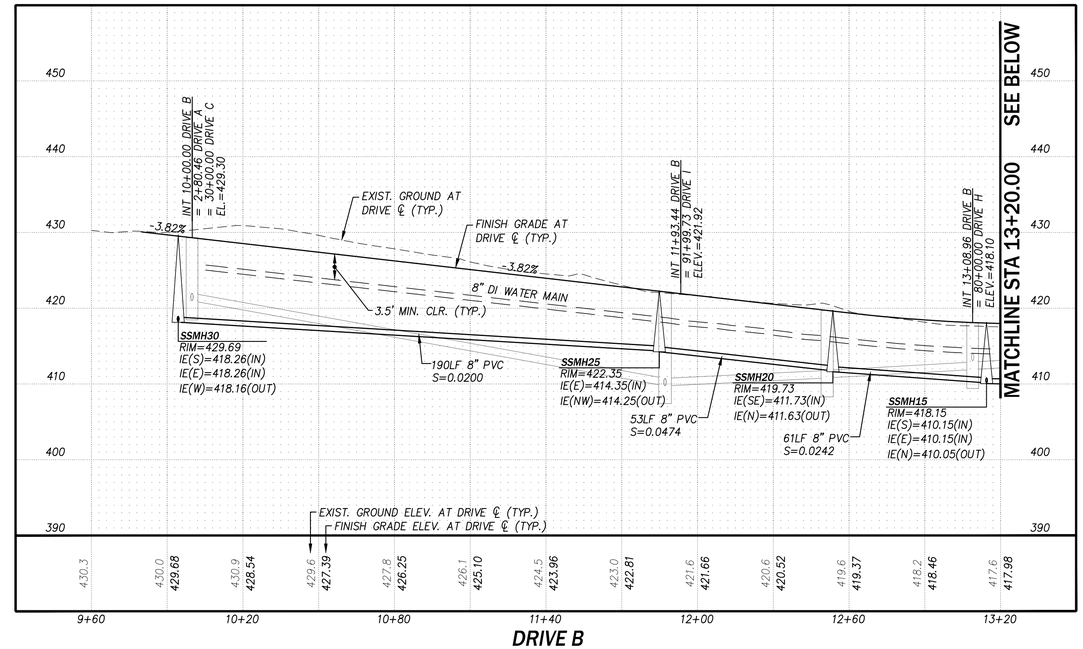

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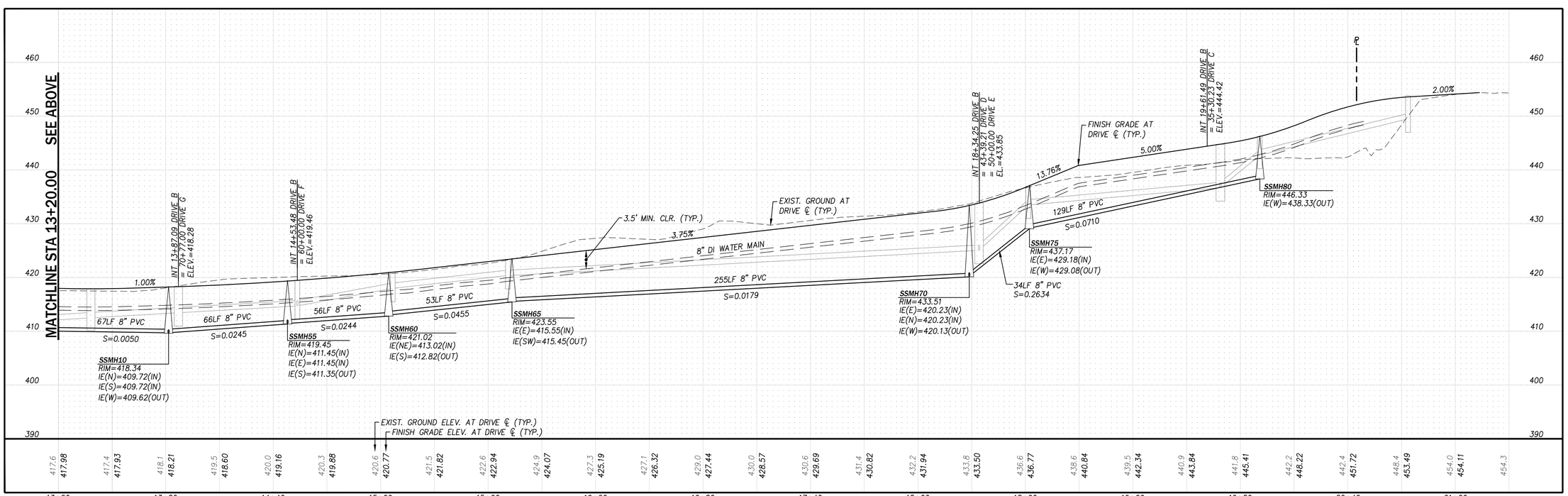

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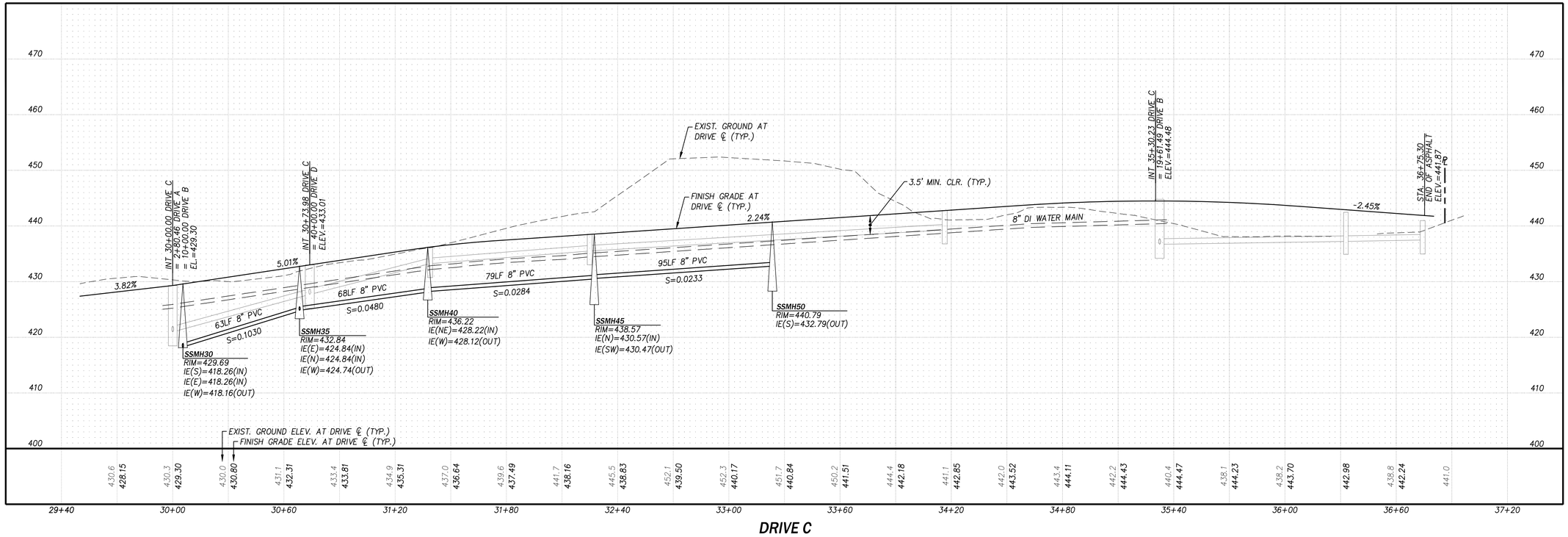

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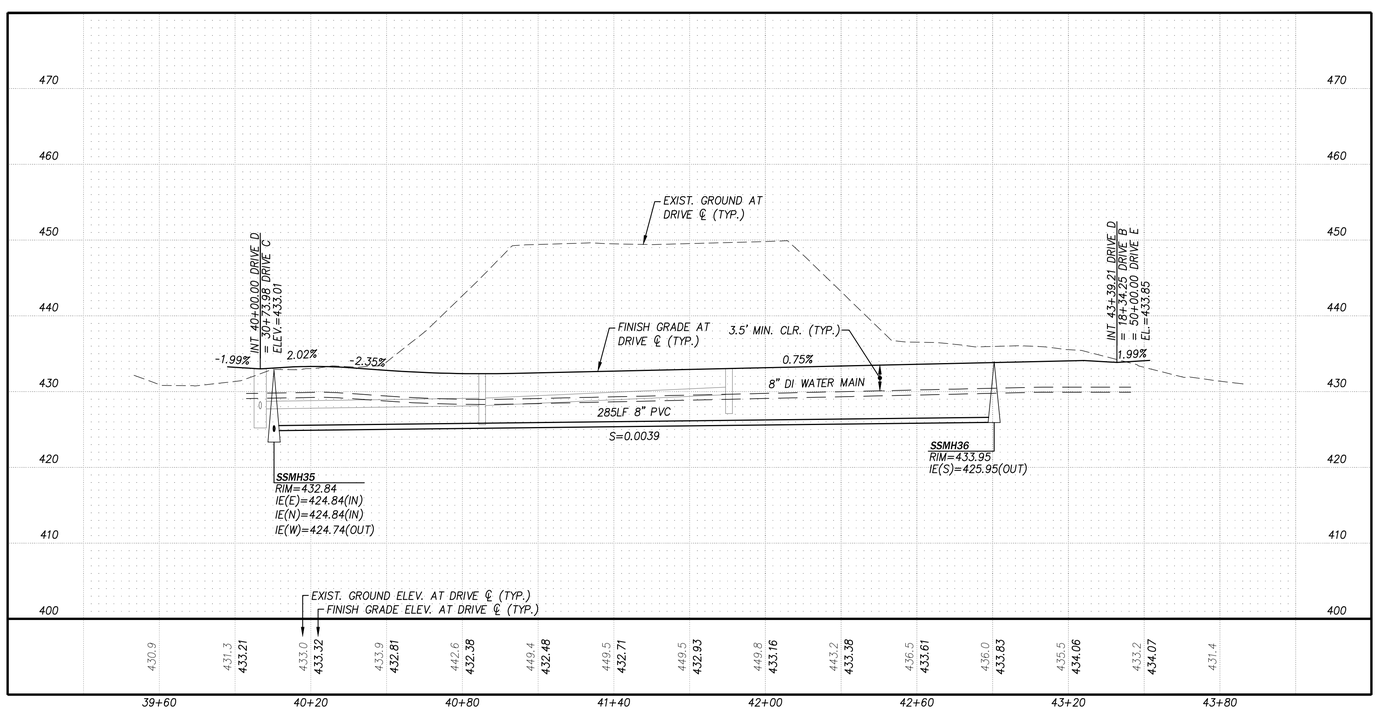

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STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
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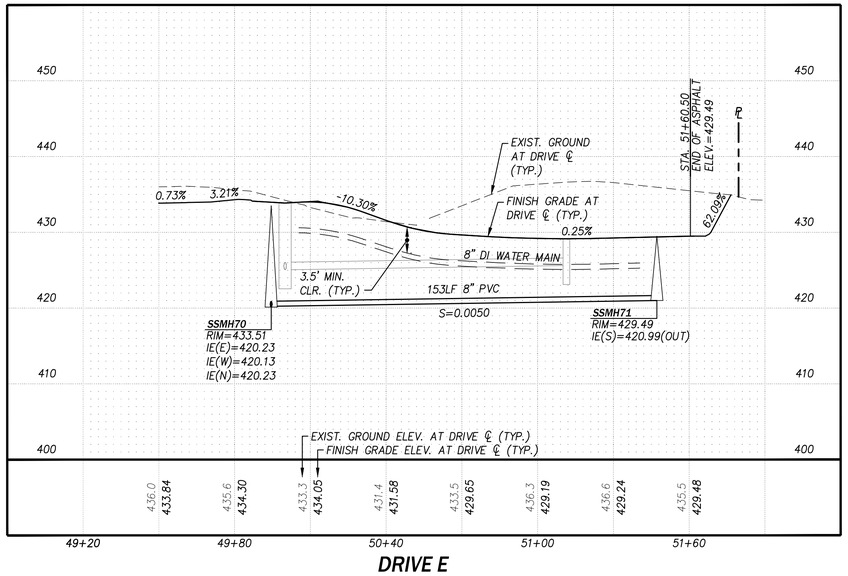

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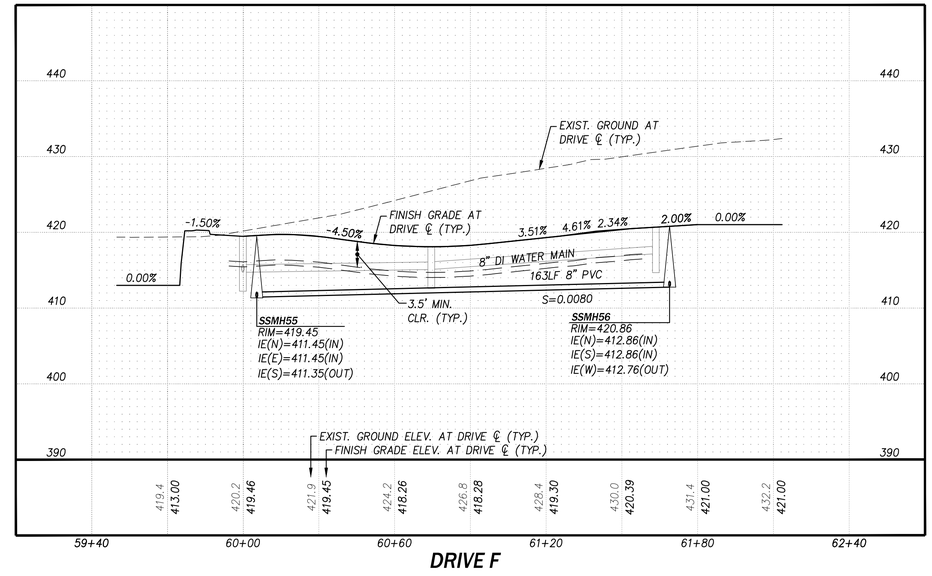

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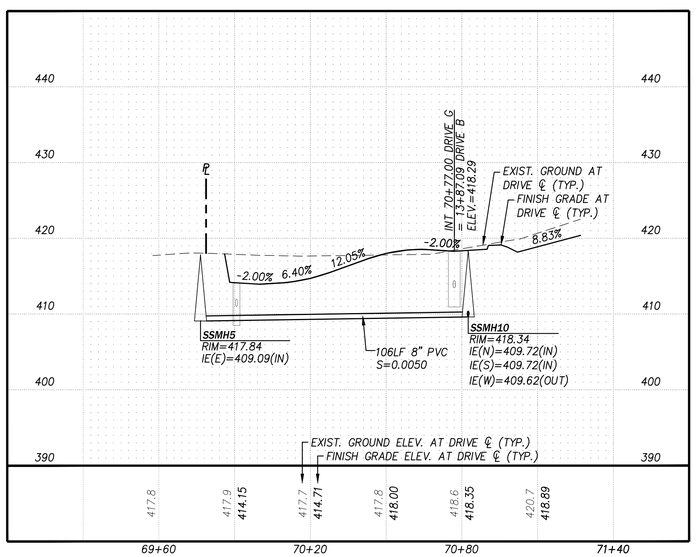

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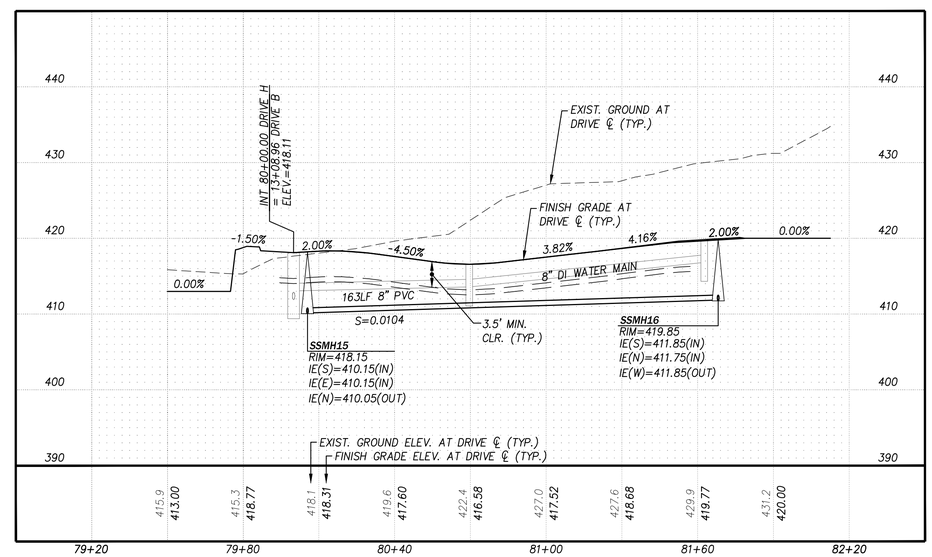

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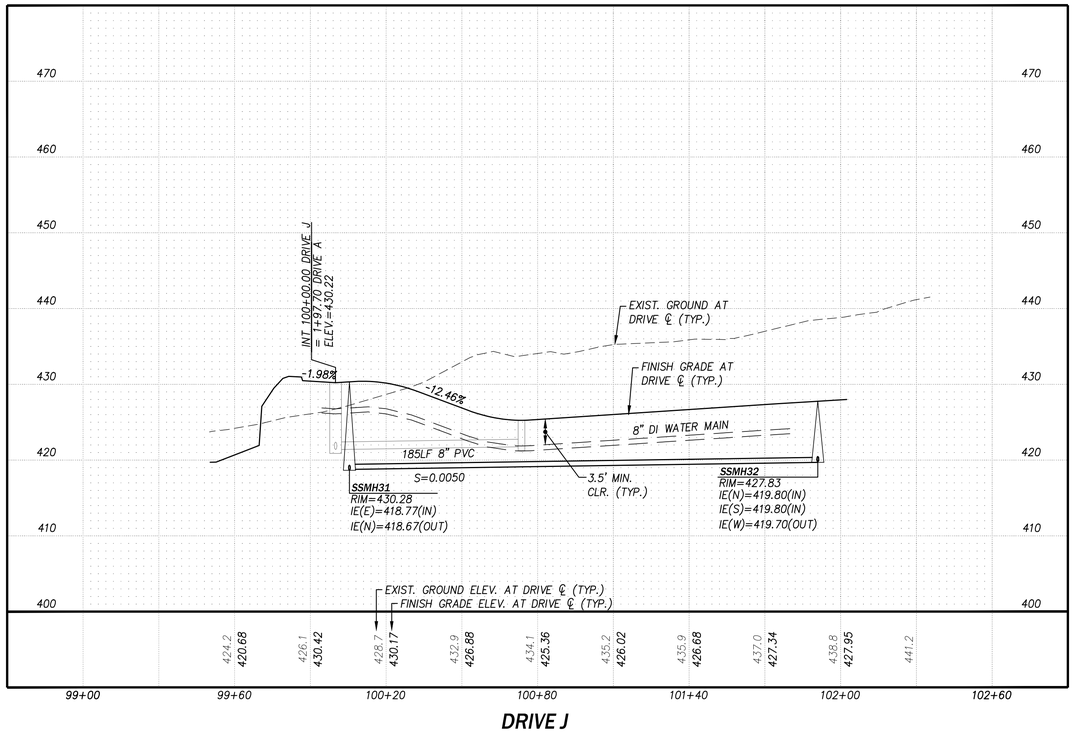

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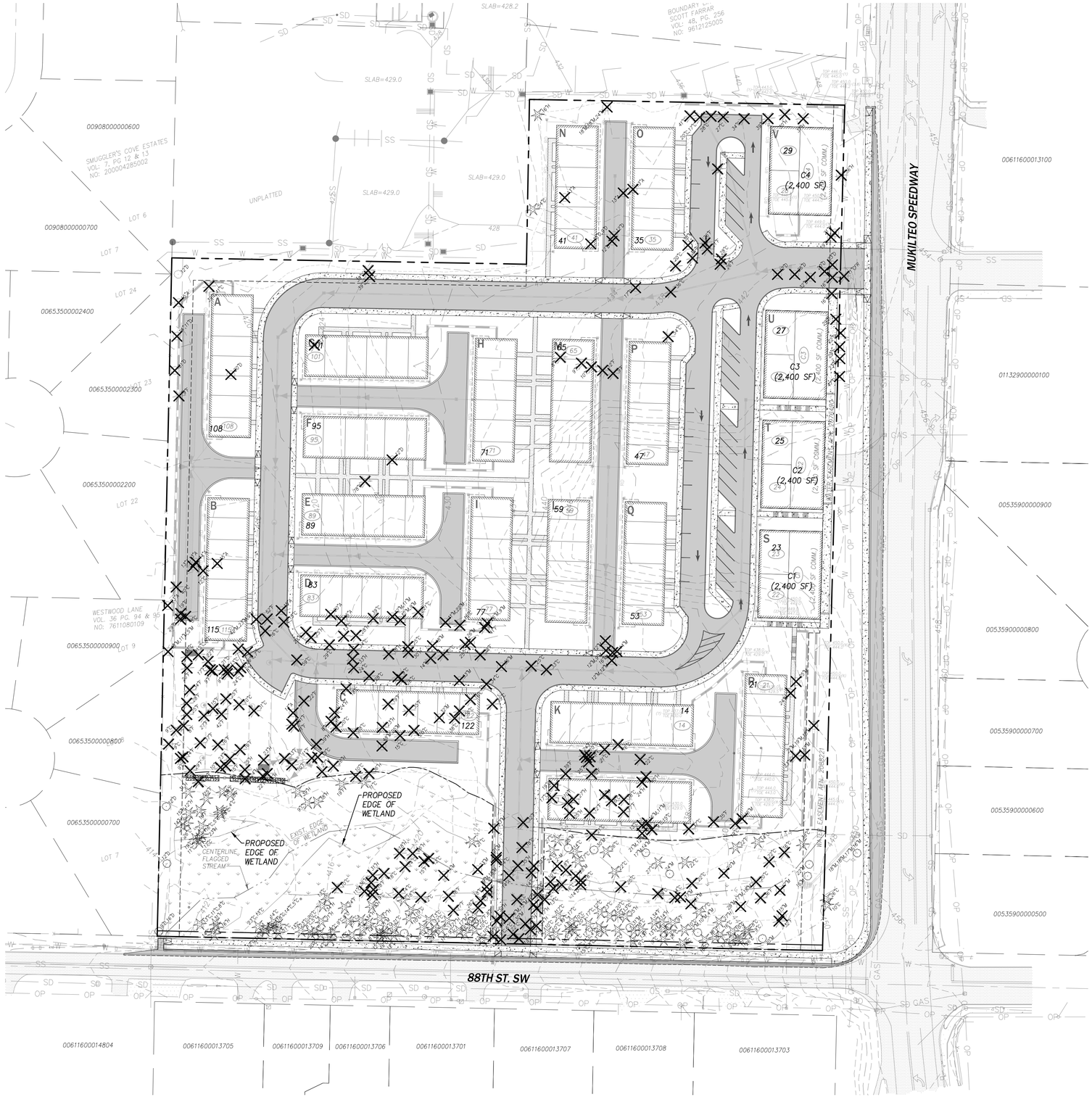

LEGEND

EXISTING TREES TO BE REMOVED

EXISTING TREES TO REMAIN

TREE RETENTION REQUIREMENT: MIN. 25% OF TREES RETAINED (MMC 15.16.050)

TOTAL EXISTING TREES:	431
TREES TO BE REMOVED:	288
TREES TO REMAIN	143 (33%)

NOTES:

1. THE PROJECT WILL COMFORM TO THE SOIL MANAGMENT AND AMENDMENT REQUIREMENTS OF DOE MANUAL BMP T5.13 (POST CONSTRUCTION SOIL QUALITY AND DEPTH)

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SOIL MANAGEMENT AND TREE RETENTION PLAN

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0 50 100
PLAN IN FEET

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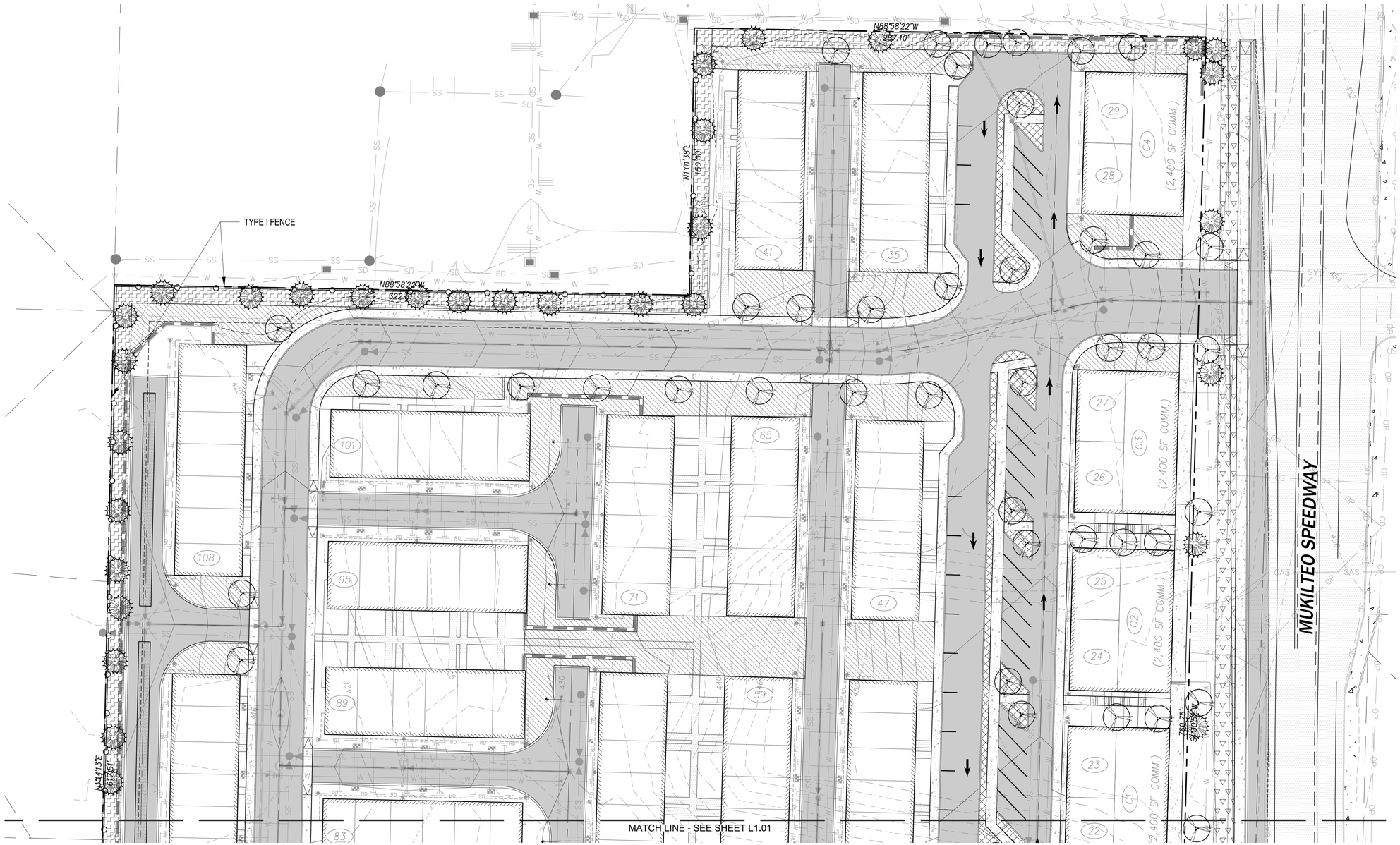

NOTE: SEE SHEET L1.01 FOR PLANT LEGEND AND LANDSCAPE CALCULATIONS.

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PLANTING LEGEND

SYMBOL	TYPE	DESCRIPTION	NOTES	SPACING
DECIDUOUS TREES				
	Street Trees	*Red Sunset Maple and other deciduous trees*	2-1/2" cal.	20' o.c.
	Canopy Trees	Moutainash, Hornbeam, Red Maple, Sweetgum, Vine Maple, and other canopy trees	2" cal.	
EVERGREEN TREES				
	Thuja plicata -Western Red Cedar		6' min. ht.	
	Pseudotsuga menziesii - Douglas Fir		6' min. ht.	
	Chamaecyparis nootkatensis - Alaska Cedar		6' min. ht.	

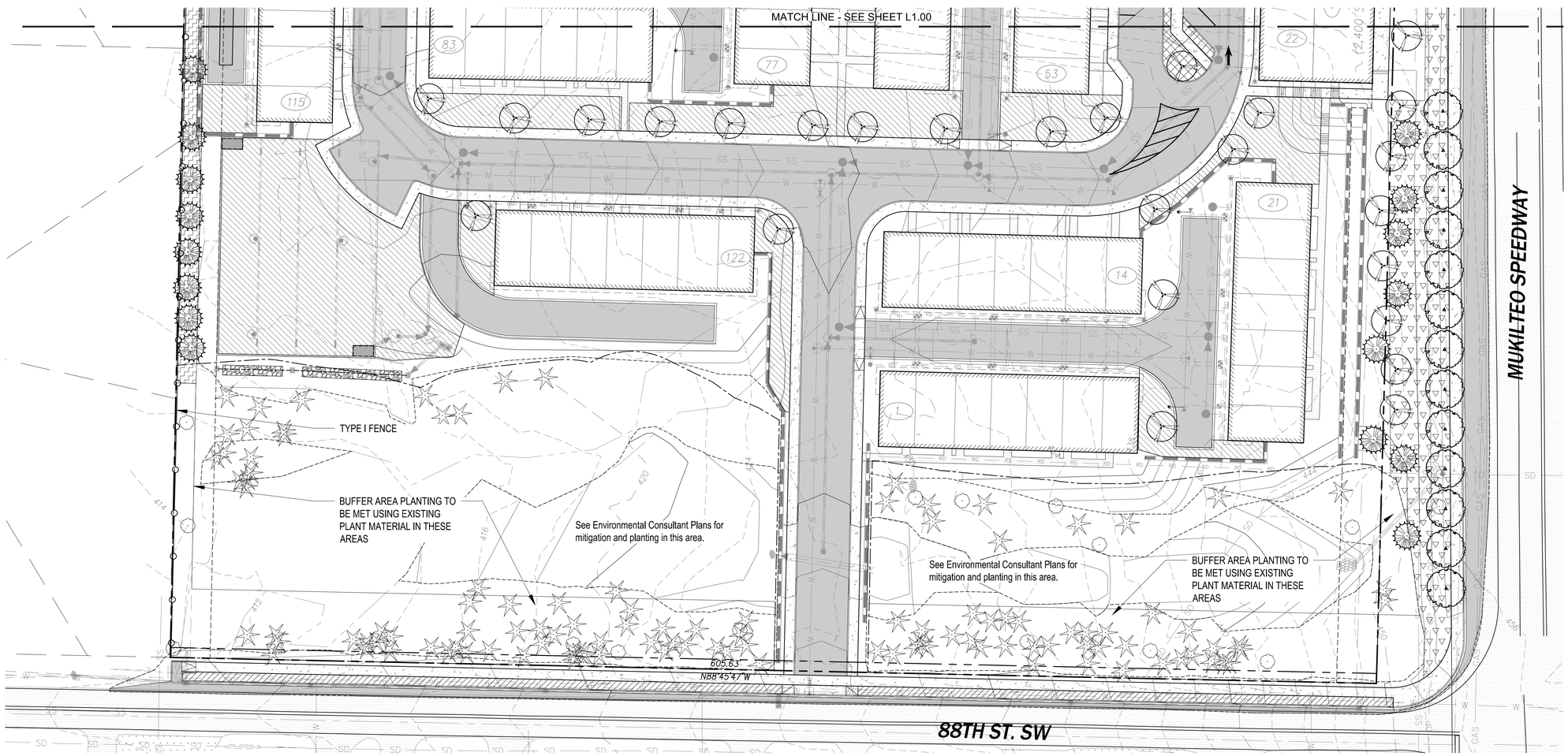
PLANTING AREAS

Type II Landscape	Sight Obscuring Landscape	Native Shrubs at a minimum of 5' ht.
Type III Landscape	Ornamental Landscape	Trees, Shrubs, and other landscape materials; native species preferred
Type III or V Landscape	Street Frontage Landscape	Trees, Shrubs, and other landscape materials; native species preferred
Parking Lot Landscaping	Equal to 10% of total parking area	Trees, shrubs, and ground cover
Open Space		

OPEN SPACE AND RECREATION AREA CALCULATIONS

MMC 17.51.050.B. OPEN SPACE AND RECREATION AREA REQUIREMENT: 20% OF TOTAL AREA, UP TO 50% OF OPEN SPACE MAY BE ON UNBUILDABLE LAND

TOTAL AREA:	418,862 SF
OPEN SPACE REQUIREMENT (20%):	418,862 X .2 = 83,722 SF
OPEN SPACE PROVIDED ON BUILDABLE LAND:	46,542 SF
OPEN SPACE PROVIDED ON UNBUILDABLE LAND:	37,180 SF
TOTAL OPEN SPACE PROVIDED:	83,722 SF



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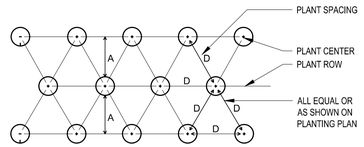
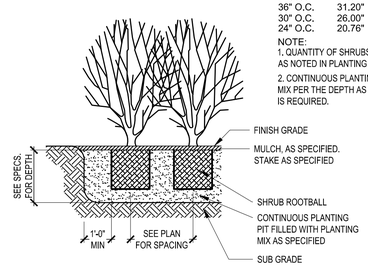
PLANTING NOTES

1. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER THE CONTRACT DOCUMENTS AND SPECIFICATIONS, AND PER CITY OF MUKILTEO STANDARDS.
2. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE GENERAL CONTRACTOR AND IF NECESSARY OTHER SUB CONTRACTORS AS REQUIRED TO ACCOMPLISH PLANT MATERIAL INSTALLATION.
3. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO STARTING WORK.
4. ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICANHORT. ALL TREES AND SHRUBS OF THE SAME SPECIES AND SIZE SHALL HAVE MATCHING HEIGHT AND FORM UNLESS OTHERWISE NOTED ON THE PLANS.
5. CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN IN THE CONTRACT DOCUMENTS. DISCREPANCIES IN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER IMMEDIATELY.
6. CONTRACTOR SHALL FURNISH PLANT MATERIAL FREE OF PESTS OR PLANT DISEASES. PRESELECTED OR "TAGGED" MATERIAL MUST BE INSPECTED BY THE CONTRACTOR AND CERTIFIED PEST AND DISEASE FREE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO WARRANTY ALL PLANT MATERIAL BASED ON THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING HARDSCAPE OR SOFTSCAPE MATERIALS DAMAGED DURING PLANTING OPERATIONS.
8. ALL LANDSCAPE AREAS SHALL RECEIVE 2" SETTLED DEPTH OF ORGANIC BARK MULCH THROUGHOUT. HAND DETAIL BY REMOVING EXCESS OR ACCUMULATED MULCH FROM AROUND THE BASE OF ALL PLANTS.
10. ALL NEW TURF AREAS SHALL BE AUGMENTED WITH A 2" LAYER OF ORGANIC MATERIAL CULTIVATED A MINIMUM OF 6" DEEP OR HAVE AN ORGANIC CONTENT OF 5% OR MORE TO A DEPTH OF 6".
11. ORGANIC CONTENT OF SOILS IN ANY LANDSCAPE AREA OTHER THAN TURF AREAS SHALL BE AS NECESSARY TO PROVIDE ADEQUATE NUTRIENT AND MOISTURE-RETENTION LEVELS FOR THE ESTABLISHMENT OF PLANTINGS.
12. ALL LANDSCAPE AREAS SHALL CONFORM TO CITY OF MUKILTEO REQUIREMENTS.

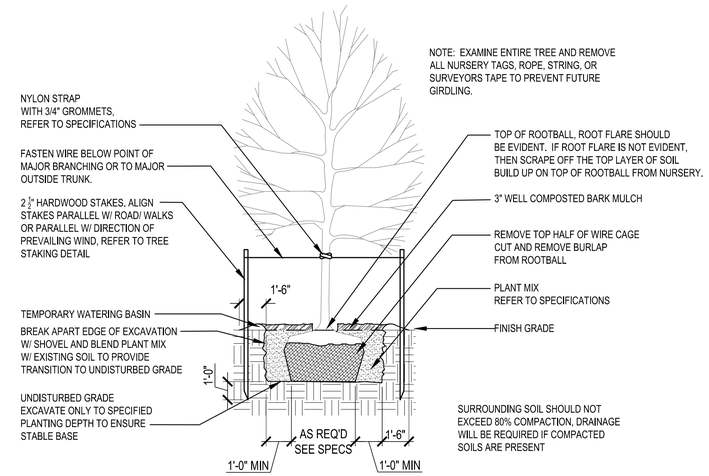


SPACING "D"	ROW "A"	NUMBER OF PLANTS/SQ. FT.
5' O.C.	51.96"	0.04
4' O.C.	41.52"	0.07
36" O.C.	31.20"	0.12
30" O.C.	26.00"	0.18
24" O.C.	20.76"	0.28

NOTE:
1. QUANTITY OF SHRUBS AND SPACING AS NOTED IN PLANTING SCHEDULE.
2. CONTINUOUS PLANTING PITS FILLED WITH PLANTING MIX PER THE DEPTH AS NOTED IN THE SPECIFICATIONS IS REQUIRED.

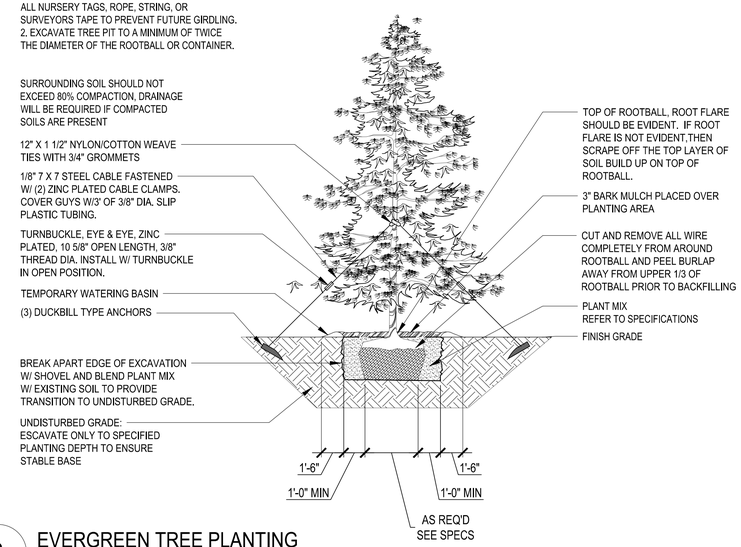


1 SHRUB PLANTING
SCALE: NTS



2 DECIDUOUS TREE PLANTING
SCALE: NTS

NOTES:
1.EXAMINE ENTIRE TREE AND REMOVE ALL NURSERY TAGS, ROPE, STRING, OR SURVEYORS TAPE TO PREVENT FUTURE GIRDLING.
2. EXCAVATE TREE PIT TO A MINIMUM OF TWICE THE DIAMETER OF THE ROOTBALL OR CONTAINER.



3 EVERGREEN TREE PLANTING
SCALE: NTS

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