SW 1/4, SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.

HARBOUR POINTE INDUSTRIAL

78XX 40TH AVE W
MUKILTEO, WA 98275

CLIENT
HARBOUR POINTE ENTERPRISES
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SNOHOMISH, WA 98296
425.268.3531
CONTACT: DINA POP

CONSULTANTS
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CG ENGINEERING
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26911 98TH DR. NW, SUITE B
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SURVEYOR
CORNERSTONE ENGINEERING, INC.
16928 WOODINVILLE-REDMOND RD NE, SUITE 210
WOODINVILLE, WA 98072
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SOIL/GEOTECH ENGINEER
ASSOCIATED EARTH SCIENCES, INC
911 5TH AVENUE
KIRKLAND, WA 98033
425.827.7701

LEGAL DESCRIPTION
LOT 3, THE CITY OF MUKILTEO SHORT PLAT NO. SP 84-5 , AS RECORDED UNDER RECORDING NO. 8601240302, BEING A PORTION OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M., RECORDS OF SNOHOMISH COUNTY, WASHINGTON;

EXCEPT THE EAST 30 FEET THEREOF CONDEMNED FOR ROAD SNOHOMISH COUNTY SUPERIOR COURT CAUSE NO. 99-2-02719-2, RECORDED UNDER SNOHMISH COUNTY RECORDING NO. 200207220027.

(PER FIRST AMERICAN TITLE INSURANCE COMPANY ALTA COMMITMENT FOR TITLE INSURANCE, FILE NO. 4221-3966776, DATED JUNE 10, 2022 AT 8:00 AM)

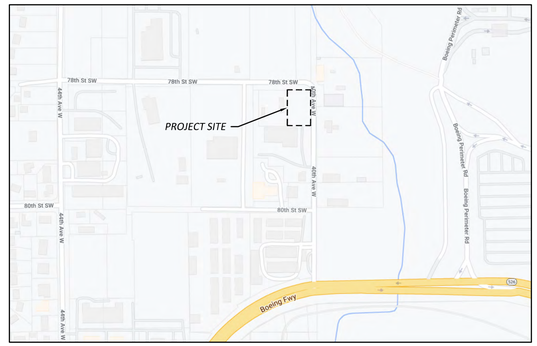
BASIS OF BEARING
PER RECORD OF SURVEY (R1) AFN. 8903135001 & (R2) AFN. 9606215005. RECORD BEARINGS HAVE BEEN ROTOATED TO HERIN REFERENCED NAD 83 (2011) MERIDIAN.

VERTICAL DATUM
NAVD 88

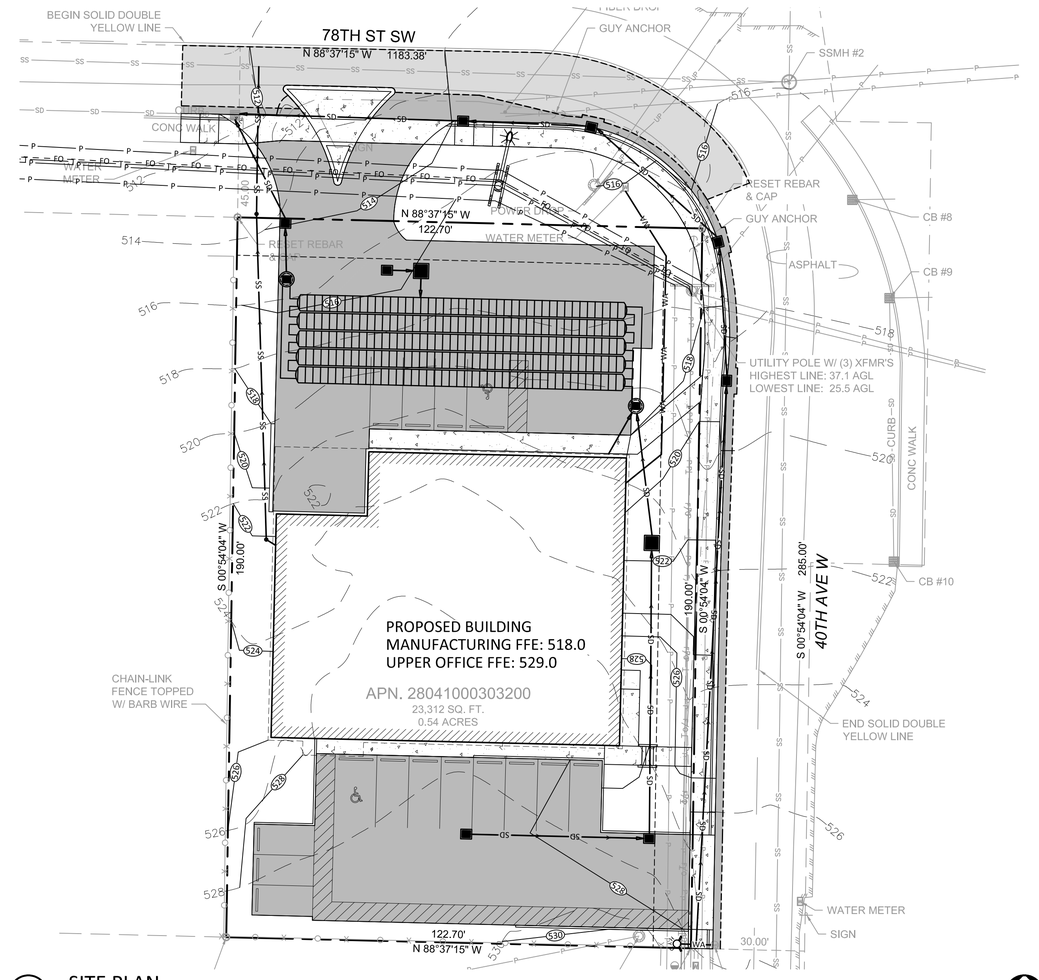
PARCEL NUMBER
28041000303200

CAUTION!
CALL BEFORE YOU DIG!
BURIED UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT THE ONE- CALL UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION
1-800-424-5555

SHEET INDEX



VICINITY MAP
NTS



1 SITE PLAN
SCALE: 1" = 20'

LEGEND

DESCRIPTION	EXISTING	PROPOSED
PROPERTY LINE		
ADJACENT PROPERTY LINE		
CENTERLINE		
CLEARING LIMITS		
SILT FENCE	X X	X X
CONTOUR LINE	100	100
FENCE		
SANITARY SEWER LINE	SS SS	SS SS
MANHOLE		
STORM DRAIN MAIN	SD SD	SD SD
STORM DRAIN PIPE		
ROOF DRAIN	R R	R R
FOOTING DRAIN	F F	F F
PRESSURE LINE	P P	P P
CATCH BASIN (TYPE 1)		
CATCH BASIN (TYPE 2)		
CLEANOUT		
CLEANOUT AND WYE		
GRADE BREAK		
SURFACE SWALE		
DRAINAGE ARROW		
WATER LINE	WA WA	WA WA
WATER METER		
FIRE HYDRANT		
FDC		
PIV		
GATE VALVE		
TEE		
90° BEND		
THRUST BLOCKING		
CAP		
CONCRETE PAVEMENT		
ASPHALT PAVEMENT		
CRUSHED SURFACING		
ROCKERY		
SPOT ELEVATION	20.0	20.0
TELEPHONE LINE	T T	T T
POWER LINE	E E	E E
GAS LINE	G G	G G
SIGN		

ABBREVIATIONS			
ABN	ABANDONED	MIN	MINIMUM
BLDG	BUILDING	MJ	MECHANICAL JOINT
BOW	BOTTOM OF WALL	MON	MONUMENT
℄	CENTERLINE	NTS	NOT TO SCALE
CB	CATCH BASIN	OC	ON CENTER
CMP	CORRUGATED METAL PIPE	PC	POINT OF CURVATURE
CO	CLEANOUT	PI	POINT OF INTERSECTION
CONC	CONCRETE	PIV	POST INDICATOR VALVE
CONST	CONSTRUCTION	ℙ	PROPERTY LINE
CP	CONCRETE PIPE	PT	POINT OF TANGENCY
CU YD	CUBIC YARD	PVC	POLYVINYL CHLORIDE PIPE
DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY	PVI	POINT OF VERTICAL INTERSECTION
DI	DUCTILE IRON PIPE	PVMT	PAVEMENT
DIA	DIAMETER	PVT	POINT OF VERTICAL TANG.
DIP	DUCTILE IRON PIPE	R	RADIUS
EA	EACH	REINF	REINFORCEMENT
EJ	EXPANSION JOINT	RJ	RESTRAINED JOINT
ELEV	ELEVATION	RET	RETAINING
EOP	EDGE OF PAVEMENT	RT	RIGHT
EX	EXISTING	SD	STORM DRAIN
FDC	FIRE DEPT. CONNECTION	SECT	SECTION
FFE	FINISHED FLOOR ELEVATION	SDMH	STORM DRAIN MANHOLE
FH	FIRE HYDRANT	SIM	SIMILAR
FL	FLANGE	SQ	SQUARE
FT	FEET/FOOT	SS	SANITARY SEWER
GV	GATE VALVE	SSMH	SANITARY SEWER MANHOLE
HP	HIGH POINT	STA	STATION
HT	HEIGHT	STD	STANDARD
ID	INSIDE DIAMETER	STL	STEEL
IE	INVERT ELEVATION	TB	THRUST BLOCK
L	LENGTH/LINE	TOC	TOP OF CURB
LCPE	LINED CORRUGATED POLYETHYLENE PIPE	TOW	TOP OF WALL
LF	LINEAL FOOT	TOP	TOP ELEVATION
LP	LOW POINT	TYP	TYPICAL
LT	LEFT	VC	VERTICAL CURVE
MAX	MAXIMUM	W/	WITH
MECH	MECHANICAL	WM	WATER METER
MH	MANHOLE		

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GREG GUILLEN — STATE OF WASHINGTON — 25385 — REGISTERED PROFESSIONAL ENGINEER
01/04/24

MARK	DATE	DESCRIPTION
	01/04/24	PERMIT SUBMITTAL

DESIGN:	NAT
DRAWN:	JCP
CHECK:	JPU
JOB NO:	22272.20
DATE:	01/04/24

HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

COVER SHEET & SITE PLAN

FILE NAME:

SHEET: C1.1

SW 1/4, SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.

GENERAL NOTES

(THESE NOTES ARE TYPICAL UNLESS NOTED OR DETAILED OTHERWISE ON DRAWINGS)

GENERAL NOTES:

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT CITY OF MUKILTEO DEVELOPMENT STANDARDS; THE CURRENT EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION; AND THE ADOPTED EDITION OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.
2. ALL WORK WITHIN THE PLAT AND CITY RIGHT-OF-WAY SHALL BE SUBJECT TO THE INSPECTION OF THE CITY.
3. PRIOR TO ANY SITE CONSTRUCTION INCLUDING CLEARING/LOGGING OR GRADING, THE SITE CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR (OR PROJECT ENGINEER) AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR'S NAME AND PHONE NUMBER IS.
4. THE DEVELOPER, CONTRACTOR AND PROJECT ENGINEER IS RESPONSIBLE FOR WATER QUALITY AS DETERMINED BY THE MONITORING PROGRAM ESTABLISHED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER'S NAME AND PHONE NUMBER IS GREG GUILLEN (CG ENGINEERING), 425-778-8500.
5. PRIOR TO ANY SITE WORK, THE CONTRACTOR SHALL CONTACT THE CITY OF MUKILTEO COMMUNITY DEVELOPMENT DEPARTMENT AT 425-263-8000 TO SCHEDULE A PRECONSTRUCTION CONFERENCE.
6. ENGINEERED AS-BUILT DRAWINGS IN ACCORDANCE WITH THE CURRENT ADOPTED INTERNATIONAL BUILDING CODE SHALL BE REQUIRED PRIOR TO FINAL SITE APPROVAL.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS FOR UTILITY, ROAD, AND RIGHT-OF-WAY CONSTRUCTION. THE CONTRACTOR FOR THIS PROJECT IS
   CONTACT PERSON: TBD
   PHONE: TBD
   MOBILE: TBD
   24-HOUR EMERGENCY CONTACT AND PHONE: TBD
8. THE CONSTRUCTION STORMWATER POLLUTION PREVENTION (SWPP) FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED SWPPP PLANS PRIOR TO ANY GRADING OR LAND CLEARING. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. SEDIMENT LADEN WATERS SHALL NOT ENTER THE NATURAL DRAINAGE SYSTEM.
9. A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) OR SWPPP SUPERVISOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION SWPP FACILITIES, AS OUTLINED IN THE APPROVED SWPPP, OR AS MODIFIED FROM TIME TO TIME. CONTACT INFORMATION FOR THE CESCL (OR SWPPP SUPERVISOR) FOR THE PROJECT SHALL BE GIVEN TO THE CITY.
10. NONCOMPLIANCE WITH THE REQUIREMENTS FOR EROSION CONTROLS, WATER QUALITY AND CLEARING LIMITS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL, AND BOND FORECLOSURES.
11. TRENCH BACKFILL OF NEW UTILITIES AND STORM DRAINAGE FACILITIES SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (MODIFIED PROCTOR) UNDER ROADWAYS AND 90% MAXIMUM DENSITY (MODIFIED PROCTOR) OFF ROADWAYS. COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTIONS 7-08.3(3) AND 2-03.3(14) D OF THE WSDOT STANDARD SPECIFICATIONS.
12. THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. LOCATION OF UTILITIES SHOWN ON CONSTRUCTION PLANS ARE BASED ON BEST RECORDS AVAILABLE AND ARE SUBJECT TO VARIATION. FOR ASSISTANCE IN UTILITY LOCATION, CALL 811.
13. PRIOR TO CONSTRUCTION THE OWNER AND/OR CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE PUBLIC WORKS DIRECTOR WHEN CONFLICTS EXIST BETWEEN THE PLANS AND FIELD CONDITIONS. CONFLICTS SHALL BE RESOLVED (INCLUDING PLAN AND PROFILE REVISIONS) AND RESUBMITTED FOR APPROVAL PRIOR TO PROCEEDING WITH CONSTRUCTION.
14. THE CONTRACTOR SHALL KEEP TWO SETS OF PLANS ON SITE AT ALL TIMES FOR RECORDING AS-BUILT INFORMATION; ONE SET SHALL BE SUBMITTED TO THE PROJECT ENGINEER, AND ONE SET SHALL BE SUBMITTED TO THE CITY AT COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL ACCEPTANCE OF WORK.
15. A GRADING PERMIT ISSUED PURSUANT TO THE CURRENT ADOPTED INTERNATIONAL BUILDING CODE, AND APPROVAL OF THE TEMPORARY EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE OBTAINED FROM THE COMMUNITY DEVELOPMENT DEPARTMENT PRIOR TO ANY ON-SITE GRADING WORK NOT EXPRESSLY EXEMPT BY THE CURRENT ADOPTED INTERNATIONAL BUILDING CODE.

SITE GRADING AND CONSTRUCTION SWPPP NOTES:

1. PRIOR TO ANY SITE WORK, INCLUDING CLEARING, LOGGING OR GRADING, THE SITE CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR (OR PROJECT ENGINEER) AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR'S NAME AND PHONE NUMBER IS CORNERSTONE ENGINEERING, INC., 425.487.1732.
2. SOILS IN MUKILTEO OFTEN CONTAIN FINER PARTICLES WHICH WILL PASS THROUGH SEDIMENT TRAPS UNTREATED AND HAVE EXTREMELY LONG SETTLING TIMES. THEREFORE, THE NEED TO CONTROL EROSION FROM THE SITE IS THE FIRST PRIORITY AND SHOULD BE EMPHASIZED.
3. THE CONSTRUCTION STORMWATER POLLUTION PREVENTION FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED SWPPP PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING. AN INSPECTION BY THE CITY OF THESE FACILITIES SHALL BE ARRANGED FOR BY THE CONTRACTOR PRIOR TO ANY GRADING. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
4. STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED BY TEMPORARY SEEDING AND MULCHING. HYDROSEEDING IS PREFERRED.
5. THE DEVELOPER (OR PROJECT ENGINEER) IS RESPONSIBLE FOR WATER QUALITY AS DETERMINED BY THE MONITORING PROGRAM ESTABLISHED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER'S NAME AND PHONE NUMBER IS GREG GUILLEN (CG ENGINEERING), 425-778-8500.
6. IF THE PROJECT WILL DISTURB MORE THAN ONE (1) ACRE OF LAND, THEN A CONSTRUCTION NPDES PERMIT IS REQUIRED AND A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) SHALL BE ASSIGNED TO THE SITE. THE CESCL'S NAME, PHONE NUMBER, AND CESCL CERTIFICATE NUMBER IS TBD.
7. ALL SITE WORK MUST BE PERFORMED IN ACCORDANCE WITH THE CURRENT CITY ADOPTED INTERNATIONAL BUILDING CODE.
8. ALL EARTH WORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARDS. A PRECONSTRUCTION SOILS INVESTIGATION MAY BE REQUIRED TO EVALUATE SOILS STABILITY.
9. IF CUT AND FILL SLOPES EXCEED A MAXIMUM OF TWO FEET HORIZONTAL TO ONE FOOT VERTICAL, A ROCK OR CONCRETE RETAINING WALL MAY BE REQUIRED. ALL ROCK RETAINING WALLS GREATER THAN FOUR (4) FEET IN HEIGHT ARE TO BE DESIGNED AND CERTIFIED BY A PROFESSIONAL ENGINEER EXPERIENCED IN SOIL MECHANICS.
10. THE SURFACE OF ALL SLOPES SHALL BE COMPACTED. THIS MAY BE ACCOMPLISHED BY OVER-BUILDING THE SLOPES, THEN CUTTING BACK TO FINAL GRADES; OR BY COMPACTING EACH LIFT AS THE SLOPE IS BEING CONSTRUCTED. ALL SLOPES SHALL BE COMPACTED BY THE END OF EACH WORKING DAY.
11. ALL STRUCTURAL FILLS SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY IN THE UPPER 4 FEET & 90% MAXIMUM DENSITY BELOW 4 FEET AS DETERMINED BY MODIFIED PROCTOR.
12. NONCOMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND CLEARING LIMITS VIOLATIONS MAY RESULT IN REVOCATION OF PROJECT PERMITS AND PLAN APPROVAL AND BOND FORECLOSURES.
13. UPON COMPLETION OF WORK, FINAL REPORTS MUST BE SUBMITTED TO THE CITY IN CONFORMANCE WITH THE CURRENT CITY ADOPTED INTERNATIONAL BUILDING CODE.
14. A WET WEATHER EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL ON OR BEFORE SEPTEMBER 1, IF THE PROJECT IS PROPOSING TO ACTIVELY CLEAR, GRADE, OR OTHERWISE DISTURB 1,000 SQUARE FEET OR MORE OF SOIL DURING THE PERIOD BETWEEN OCTOBER 1 AND APRIL 30. OTHER THRESHOLDS FOR A WET WEATHER EROSION CONTROL PLAN INCLUDE PROJECTS THAT:
    A. HAVE AREA(S) THAT DRAIN, BY PIPE, OPEN DITCH, SHEET FLOW, OR A COMBINATION OF THESE TO A TRIBUTARY WATER, AND THE TRIBUTARY WATER IS ONE-QUARTER MILE OR LESS DOWNSTREAM; OR
    B. HAVE SLOPES STEEPER THAN 15 PERCENT ADJACENT OR ON-SITE; OR
    C. HAVE HIGH POTENTIAL FOR SEDIMENT TRANSPORT, AS DETERMINED BY THE CONSTRUCTION SITE SEDIMENT TRANSPORT POTENTIAL WORKSHEET; OR
    D. HAVE A CRITICAL AREA OR CRITICAL AREA BUFFER ON-SITE, OR WITHIN 50 FEET OF THE SITE; OR
    E. HAVE HIGH GROUNDWATER TABLE OR SPRINGS.

TEMPORARY SEEDING GENERAL NOTES:

1. USE SEEDING THROUGHOUT THE PROJECT ON DISTURBED AREAS THAT HAVE REACHED FINAL GRADE OR THAT WILL REMAIN UNWORKED FOR MORE THAN 30 DAYS.
2. THE OPTIMUM SEEDING WINDOWS ARE APRIL 1 THROUGH JUNE 30 AND SEPTEMBER 1 THROUGH OCTOBER 1.
3. BETWEEN OCTOBER 1 AND MARCH 30 SEEDING REQUIRES A COVER OF MULCH WITH STRAW OR AN EROSION CONTROL BLANKET UNTIL 75 PERCENT GRASS COVER IS ESTABLISHED.
4. REVIEW ALL DISTURBED AREAS IN LATE AUGUST TO EARLY SEPTEMBER AND COMPLETE ALL SEEDING BY THE END OF SEPTEMBER.
    A. MULCH IS REQUIRED AT ALL TIMES FOR SEEDING. MULCH CAN BE APPLIED ON TOP OF THE SEED OR SIMULTANEOUSLY BY HYDROSEEDING (SEE ECOLOGY BMP C121 MULCHING FOR SPECIFICATIONS).
    B. SEED AND MULCH ALL DISTURBED AREAS NOT OTHERWISE VEGETATED AT FINAL SITE STABILIZATION.

SEDIMENT TRAP GENERAL NOTES:

1. SEDIMENT TRAPS ARE ONLY EFFECTIVE IN REMOVING SEDIMENT DOWN TO ABOUT THE MEDIUM SILT SIZE FRACTION. SOILS IN MUKILTEO OFTEN CONTAIN FINE SILT AND MAY NOT BE ADEQUATELY TREATED WITH SEDIMENT PONDS. THEREFORE, EROSION CONTROL PRACTICES SHOULD BE EMPHASIZED AND PRIORITIZED.
2. THE POND SHALL BE CHECKED AFTER EACH RAIN EVENT, OR WEEKLY, WHICHEVER IS SOONER, TO INSURE THAT IT THE WALLS ARE STRUCTURALLY SOUND, THE POND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT, AND TO DETERMINE MAINTENANCE NEEDS.
3. ANY DAMAGE TO THE POND EMBANKMENTS OR SLOPES SHALL BE REPAIRED IMMEDIATELY.
4. THE EMERGENCY SPILLWAY SHOULD BE CHECKED REGULARLY TO INSURE THAT THE LINING IS WELL ESTABLISHED AND EROSION RESISTANT. THE SILTATION BASIN SHOULD BE CHECKED FOR SEDIMENT CLEANOUT AFTER EACH RAINFALL WHICH PRODUCES RUNOFF.
5. WHEN THE SEDIMENT REACHES THE CLEANOUT LEVEL (TYPICALLY 1-FOOT IN DEPTH), IT SHALL BE REMOVED AND PROPERLY DISPOSED OF OFF-SITE.
6. SECONDARY TREATMENT MAY BE NECESSARY IF THE SEDIMENT POND CANNOT EFFECTIVELY REMOVE THE FINE GRAIN SOILS.

STORM DRAINAGE GENERAL NOTES:

1. ALL PIPE SHALL BE PLACED ACCORDING DIVISION 7 OF THE WSDOT STANDARD SPECIFICATIONS.
2. BACKFILL SHALL BE PLACED EQUALLY ON BOTH SIDES OF THE PIPE OR PIPE-ARCH IN 6" AVERAGE DEPTH LOOSE LIFTS. MAXIMUM LIFT DEPTH SHALL NOT EXCEED 9". EACH LIFT SHALL BE THOROUGHLY COMPACTED. COMPACTED LIFTS MUST EXTEND AT LEAST ONE PIPE DIAMETER ON EACH SIDE OF THE PIPE OR TO THE SIDE OF THE TRENCH. BACKFILL OVER THE PIPE SHALL BE PERFORMED IN ACCORDANCE WITH SECTIONS 7-08.3(3) THE WSDOT STANDARD SPECIFICATIONS.
3. ALL GRATES LOCATED IN THE GUTTER FLOW LINE (INLET AND CATCH BASIN) SHALL BE DEPRESSED 0.1 FEET BELOW PAVEMENT LEVEL.
4. ALL CATCH BASINS ARE TO BE TYPE I UNLESS OTHERWISE APPROVED BY THE CITY OR DESIGNATED REPRESENTATIVE. THE USE AND INSTALLATION OF INLETS IS NOT ALLOWED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET AND CATCH BASIN FRAMES AND GRATES TO GRADE JUST PRIOR TO CURB INSTALLATION AND/OR PAVING.
6. ALL CATCH BASINS WITH A DEPTH OF 5 FEET OR GREATER TO THE FLOW LINE SHALL BE TYPE II CATCH BASINS.
7. VANED GRATES ARE REQUIRED ON ALL STORM STRUCTURES. ALL CATCH BASINS AND MANHOLES SHALL HAVE LOCKING LIDS. ROLLED GRATES ARE NOT APPROVED FOR USE.
8. POLYPROPYLENE SAFETY STEPS AND LADDER STEPS SHALL BE PROVIDED IN ALL MANHOLES AND SHALL BE POSITIONED CORRECTLY WITH THE BOLT AREAS ON THE RIM.
9. CATCH BASIN FRAMES AND GRATES SHALL BE OLYMPIC FOUNDRY MODEL SM60, SM52, OR SM44, LOCKING TYPE OR EQUIVALENT. MODEL SM52 SHALL BE REFERRED TO AS A "THROUGH CURB INLET" ON THE PLANS.
10. DETENTION PONDS WITH SIDE SLOPES STEEPER THAN 3:1 OR WITH A MAXIMUM WATER DEPTH GREATER THAN 3 FEET SHALL REQUIRE A VINYL COATED CHAIN LINK PERIMETER FENCE. SIDE SLOPE AVERAGING SHALL NOT BE ALLOWED. ALL INLET AND OUTFALL PIPES SHALL HAVE A TRASH RACK INSTALLED AND A MORTARED RIPRAP HEADWALL.
11. PRIOR TO SIDEWALK CONSTRUCTION; LOT DRAINAGE SYSTEMS, STUB-OUTS AND ANY BEHIND SIDEWALK DRAINS MUST BE INSTALLED AS REQUIRED. PIPE SHALL BE PVC 3034, OR SDR-35. STUB-OUTS SHALL BE MARKED WITH A 2" X 4" WITH 3 FEET VISIBLE ABOVE GRADE AND MARKED "STORM". LOCATIONS OF THESE INSTALLATIONS SHALL BE SHOWN ON THE AS-BUILT CONSTRUCTION PLANS SUBMITTED TO THE CITY.
12. STORM WATER RETENTION/DETENTION FACILITIES, STORM DRAINAGE PIPE AND CATCH BASINS SHALL BE FLUSHED AND CLEANED BY THE DEVELOPER PRIOR TO:
    A. CITY OF MUKILTEO FINAL ACCEPTANCE OF THE PROJECT AND;
    B. UPON COMMENCEMENT AND COMPLETION OF THE 2 YEAR WARRANTY PERIOD FOR THE STORM DRAINAGE SYSTEM. AN INVOICE DETAILING THE FLUSHING AND CLEANING SHALL BE PROVIDED TO THE CITY.
13. ALL PIPES SHALL BE INSTALLED WITH RUBBER GASKETS AS PER MANUFACTURER'S RECOMMENDATIONS.
14. CORRUGATED POLYETHYLENE PIPE (CPP):
    A. ALL PIPE SHALL BE SMOOTH INTERIOR. CPP SHALL BE DOUBLE-WALLED. ALL PIPE SHALL MEET AASHTO AND ASTM SPECIFICATIONS.
    B. UPON REQUEST BY THE CITY INSPECTOR, ALL PIPE RUNS SHALL PASS THE LOW PRESSURE AIR TEST REQUIREMENTS OF SECTION 7-04.3(1) E & F OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION. PIPE RUNS SHALL BE TESTED WITH PIPE LOADED AND COMPACTED TO FINISH GRADE.
    C. UPON REQUEST BY THE CITY INSPECTOR, PIPE SHALL BE SUBJECT TO MANDREL TESTING (MANDREL SIZE = 90% OF NOMINAL PIPE DIAMETER).
    D. PIPE SHALL BE STORED ON SITE IN SHIPPING BUNKS ON A FLAT LEVEL SURFACE. THIS REQUIREMENT WILL BE STRICTLY ENFORCED; FAILURE TO COMPLY MAY RESULT IN REJECTION OF THE PIPE AND/OR FUTURE RESTRICTION ON USE OF MATERIAL.
    E. MINIMUM DEPTH OF COVER SHALL BE 2 FEET.
    F. COUPLINGS SHALL BE INTEGRAL BELL AND SPIGOT OR DOUBLE BELL SEPARATE COUPLINGS. SPLIT COUPLINGS WILL NOT BE ALLOWED.
    G. BACKFILL SHALL COMPLY WITH SECTION 7-08.3(3) OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION WITH THE EXCEPTION THAT THE SECOND PARAGRAPH OF SECTION 7-08.3(3) IS DELETED AND REPLACED WITH: THE MATERIAL USED FOR BACKFILLING AROUND AND TO A POINT 1 FOOT ABOVE THE TOP OF THE PIPE SHALL BE CLEAN EARTH OR SAND, FREE FROM CLAY. ANY GRAVEL OR STONES INCLUDED IN THE BACKFILL SHALL PASS THROUGH A 1 INCH SIEVE.
15. CULVERT ENDS SHALL BE BEVELED TO MATCH SIDE SLOPES. FIELD CUTTING OF CULVERT ENDS IS PERMITTED WHEN APPROVED BY THE CITY.
16. ALL FIELD CUT CULVERT PIPE SHALL BE TREATED AS REQUIRED IN THE STANDARD SPECIFICATIONS OR GENERAL SPECIAL PROVISIONS.

CG ENGINEERING
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EDMONDS, WASHINGTON 98020
PHONE (425) 778-8500
FAX (425) 778-5536

GREG GUILLEN STATE OF WASHINGTON 35385 REGISTERED PROFESSIONAL ENGINEER

01/04/24

MARK	DATE	DESCRIPTION
	01/04/24	PERMIT SUBMITTAL

DESIGN: NAT
DRAWN: JCP
CHECK: JPU
JOB NO: 22272.20
DATE: 01/04/24

HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

GENERAL NOTES

FILE NAME:

SHEET:

C1.2

SW 1/4, SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.

GENERAL NOTES

(THESE NOTES ARE TYPICAL UNLESS NOTED OR DETAILED OTHERWISE ON DRAWINGS)

WATER SYSTEM INSTALLATION NOTES:

1. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE DEVELOPER SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH THE MUKILTEO WATER AND WASTEWATER DISTRICT. THE DEVELOPER, CONTRACTOR AND PROPOSED ON-SITE SUPERVISORS SHALL ATTEND.
2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION, INCLUDING ADDENDA AND UPDATES, OF THE MUKILTEO WATER AND WASTEWATER DISTRICT DEVELOPER STANDARDS. CONTRACTOR TO HAVE MUKILTEO WATER AND WASTEWATER DISTRICT STANDARDS ON JOB SITE.
3. NO DISTRICT INSPECTIONS WILL TAKE PLACE AND THE JOB WILL BE SHUT DOWN UNLESS AN APPROVED AND DISTRICT SIGNED COPY OF THESE PLANS ARE ON THE JOB SITE AT ALL TIMES CONSTRUCTION IS IN PROGRESS.
4. ALL WATER SYSTEM IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE APPROVED PLANS. ANY DEVIATION FROM THE PLANS WILL REQUIRE APPROVAL FROM THE OWNER, ENGINEER, DISTRICT AND APPROPRIATE PUBLIC AGENCIES.
5. NOTIFY THE DISTRICT 72 HOURS (3 WORKING DAYS) PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF WORK.
6. THE DISTRICT SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO THE TIME THE DEVELOPER WOULD LIKE TO CONNECT TO EXISTING MAINS OR FOR INSTALLATION OF TAPPING TEES. THE CONNECTION SHALL BE DONE IN ACCORDANCE WITH DISTRICT REQUIREMENTS. CONNECTIONS TO TAKE PLACE TUESDAYS THROUGH THURSDAYS ONLY. DEVELOPER SHALL NOT OPERATE ANY DISTRICT VALVES; THESE WILL BE OPERATED BY WATER DISTRICT PERSONNEL ONLY.
7. FOR AID IN UTILITY LOCATION, CALL 1-800-424-5555, A MINIMUM OF 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING OF CONSTRUCTION. EXISTING UTILITIES, WHETHER SHOWN OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION, SO AS TO AVOID DAMAGE OR DISTURBANCE, AND THE DEVELOPER SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.
8. WATER LINE CONSTRUCTION WITHIN THE PROPOSED DEVELOPMENT SHALL NOT COMMENCE UNTIL THE STREET HAS BEEN BROUGHT TO SUB-GRADE, MEETING DISTRICT APPROVAL.
9. WATER MAIN SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION, WITH 25-FOOT STAKES ON CURVES. LOT CORNER STAKES SHALL ALSO BE IN PLACE PRIOR TO CONSTRUCTION.
10. PIPE SHALL BE DUCTILE IRON, AWWA CLASS 52 THICKNESS, WITH RUBBER GASKETS, PUSH ON TYPE, OR MECHANICAL JOINT, MEETING AWWA SPECIFICATIONS. FITTINGS SHALL BE AWWA, CEMENT LINED, DUCTILE IRON, AND EITHER MECHANICAL JOINT OR FLANGED, AS INDICATED HEREIN. ALL PIPE TO BE PURCHASED AND INSTALLED AS A PART OF THE DEVELOPERS WATER SYSTEM SHALL BE DELIVERED TO THE JOB SITE WITH WATER TIGHT WRAPPING OR PIPE PLUGS. PLUGS AND/OR WRAPPING SHALL REMAIN IN PLACE UNTIL THE PIPE IS INSTALLED IN THE TRENCH.
11. UNLESS OTHERWISE SPECIFIED VALVES 12 INCH AND SMALLER SHALL BE DUCTILE IRON RESILIENT SEATED GATE VALVES: ACCEPTABLE VALVES ARE MUELLER, CLOW, M&H, U.S. PIPE AND AMERICAN FLOW CONTROL, SERIES 2500. VALVES LARGER THAN 12 INCHES SHALL BE DUCTILE IRON BUTTERFLY VALVES; ACCEPTABLE VALVES ARE PRATT GROUNDHOG AND DRESSER 450.
12. ALL BOLTS ON WATER WORKSFITTINGS SHALL BE COATED WITH ARMITE ANTI-SEIZE COMPOUND NO. 609, OR EQUAL, PRIOR TO INSTALLATION. ALL WATER WORKS FITTINGS AND BOLTED ASSEMBLIES SHALL BE COMPLETELY COVERED WITH VISQUEEN PLASTIC, 4 MIL. THE END OF THE PLASTIC SHALL BE TAPED TO SECURE THEM TO THE PIPE.
13. HYDRANTS SHALL BE MUELLER CENTURION A-423, CLOW MEDALLION, OR DRESSER RELIANT 129 MEETING AWWA SPECIFICATIONS. HYDRANTS SHALL BE FURNISHED WITH THREADED OUTLETS, MEETING FIRE DISTRICT/DEPARTMENT STANDARDS. BOTH THRUST BLOCKING AND MEGA LUGS RESTRAINTS ARE REQUIRED ON EACH HYDRANT INSTALLATION. HYDRANTS WITHIN THE CITY OF MUKILTEO FIRE SERVICE AREA AND FIRE DISTRICT #1 SHALL BE EQUIPPED WITH 4-INCH STORZ ADAPTERS; ALL OTHER HYDRANTS SHALL UTILIZE A 5-INCH STORZ ADAPTER. ALL HYDRANTS SHALL HAVE A 4-1/2-INCH NST THREADS ON PUMPER PORT.
14. PROVIDE THRUST BLOCKING AND/OR RESTRAINED JOINTS AT ALL FITTINGS AND BENDS AND UP- THRUST FITTINGS, IN ACCORDANCE WITH DISTRICT STANDARDS, CONDITIONS AND SPECIFICATIONS.
15. ALL NEW CONNECTIONS TO THE EXISTING WATER SYSTEM SHALL BE IN STRICT CONFORMANCE WITH THE APPROPRIATE SUBSECTIONS OF THE SPECIFICATIONS OF THE DISTRICT. NO CONNECTION SHALL BE MADE BETWEEN THE NEW MAIN AND THE EXISTING MAINS UNTIL THE NEW PIPING HAS BEEN FLUSHED, DISINFECTED, TESTED AND RECEIVED SATISFACTORY BACTERIOLOGICAL TEST RESULTS.
16. INDIVIDUAL WATER SERVICES TO THE PROPERTY LINE SHALL BE 1" DIAMETER MINIMUM SIZE AND BE INSTALLED WITH 36-INCH MINIMUM COVER.
17. RESIDENTIAL FIRE SPRINKLER SYSTEMS SHALL HAVE A MINIMUM 1-INCH METER/SERVICE. BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED ON ALL RESIDENTIAL FIRE SPRINKLER SYSTEMS AND LOCATED IMMEDIATELY BEHIND THE WATER METER/SERVICE ON THE PROPERTY SIDE.
18. FIRE LINE SERVICES SHALL HAVE A DOUBLE CHECK DETECTOR BACKFLOW PREVENTION ASSEMBLY INSTALLED IN A UTILITY VAULT AT THE ROW/PROPERTY LINE WITH A 6-INCH PVC GRAVITY DRAIN TO STORM. FIRE LINE SERVICE SHALL TERMINATE, IN THE STRUCTURE TO BE SERVED, WITH THE DISTRICT'S RISER DETAIL.
19. ALL COMMERCIAL, MULTI-FAMILY, INDUSTRIAL AND IRRIGATION SERVICES SHALL INCLUDE A DOH APPROVED BACKFLOW PREVENTION ASSEMBLY LOCATED IMMEDIATELY BEHIND AND ON THE PROPERTY SIDE OF THE WATER METER. ALTERNATE LOCATIONS MAY BE ACCEPTABLE UPON APPROVAL BY THE DISTRICT. STRUCTURES REQUIRING FIRE SPRINKLER SYSTEM SHALL HAVE AT LEAST ONE BACKFLOW PREVENTION ASSEMBLY PER EACH STRUCTURE, PROTECTING THE POTABLE WATER SYSTEM FROM THE FIRE SYSTEM. THE BACKFLOW PREVENTION ASSEMBLY SHALL BE LOCATED IN A FLOOD PROOF VAULT OR SERVICE BOX, DEPENDING ON SIZE, OUTSIDE THE STRUCTURE IN A LOCATION APPROVED BY THE DISTRICT.
20. WHERE ROAD GRADES ARE ESTABLISHED, PROVIDE A MINIMUM OF 48-INCH COVER OVER 12 INCH OR LARGER WATER MAINS, AND PROVIDE A MINIMUM OF 42-INCH COVER OVER 8-INCH MAINS; OR ADDITIONAL DEPTH AS REQUIRED TO MISS OTHER UTILITIES.
21. WATER MAINS CONSTRUCTED WITHIN EASEMENTS OR PRIVATE ROADSSHALL BE INSTALLED WITH POLYETHYLENE ENCASEMENT, RESTRAINED JOINTS AND WITH A 5'-0" MINIMUM COVER. DURING BACKFILL OPERATIONS, FURNISH AND INSTALL 3-INCH-WIDE METALLIC MARKER TAPE WITH 3 FEET OF COVER OVER WATER MAIN.
22. MINIMUM RADIUS FOR 12 INCH AND SMALLER PIPELINES CONSTRUCTED ON CURVES (4 DEGREE DEFLECTION PER JOINT) IS 258 FEET.
23. COMPACTION: ALL TRENCH BACKFILL AND ROADWAY EMBANKMENT SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DRY MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557, EXCEPT THE TOP 6 INCHES IN PAVED AREAS, WHICH SHALL BE 100%.
24. CONSTRUCTION INSPECTION WILL BE DONE BY MUKILTEO WATER AND WASTEWATER DISTRICT AND/OR THEIR DESIGNATED ENGINEER. NO UTILITY FACILITIES WILL BE ACCEPTED BY THE DISTRICT IF PROPER INSPECTIONS HAVE NOT BEEN COMPLETED.
25. THE WATER MAIN CONSTRUCTION PHASE WILL NOT BE CONSIDERED COMPLETE UNTIL THE INSTALLATION IS ACCEPTABLE TO THE DISTRICT INCLUDING A SATISFACTORY HYDROSTATIC PRESSURE TEST, A SATISFACTORY DISINFECTION TEST, SATISFACTORY FLOW OF SERVICE LINES, AND COMPLETION OF ALL ITEMS ON THE INSPECTOR'S PUNCH LIST.
26. WATER SERVICE IS AVAILABLE ONLY AFTER TRANSFER OF OWNERSHIP TO THE DISTRICT AND AFTER PAYMENT OF ALL CURRENT APPLICABLE FEES.

SEWER SYSTEM INSTALLATION NOTES:

1. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE DEVELOPER SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH THE MUKILTEO WATER AND WASTEWATER DISTRICT. THE DEVELOPER, CONTRACTOR AND PROPOSED ON-SITE SUPERVISOR SHALL ATTEND.
2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION, INCLUDING ADDENDA AND UPDATES, OF THE MUKILTEO WATER AND WASTEWATER DISTRICT DEVELOPER STANDARDS. CONTRACTOR TO HAVE MUKILTEO WATER AND WASTEWATER DISTRICT STANDARDS ON JOB SITE AT ALL TIMES WHILE CONSTRUCTION IS IN PROGRESS.
3. A DISTRICT APPROVED SIGNED COPY OF THE PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
4. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE DISTRICT, THE PROJECT SPECIFICATIONS, AND THE MOST RECENT EDITION OF THE APWA STANDARDS AND SPECIFICATIONS.
5. WORK SHALL NOT COMMENCE UNTIL APPROVAL IS RECEIVED FROM THE STATE DEPARTMENT OF ECOLOGY, UNLESS THE REVIEW AND APPROVAL IS WAIVED BY ECOLOGY.
6. FRONT PROPERTY CORNERS SHALL BE SET BY ALAND SURVEYOR LICENSED IN THE STATE OF WASHINGTON PRIOR TO THE START OF CONSTRUCTION.
7. NOTIFY THE DISTRICT 72 HOURS (3 WORKING DAYS) PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF WORK.
8. FOR AID IN UTILITY LOCATION, CALL 1-800-424-555, A MINIMUM OF 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING OF CONSTRUCTION. EXISTING UTILITIES, WHETHER SHOWN OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION, SO AS TO AVOID DAMAGE OR DISTURBANCE, AND THE DEVELOPER SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.
9. PIPE LENGTHS, MANHOLE DEPTHS, ETC., AS SHOWN ARE APPROXIMATE. DEVELOPER IS RESPONSIBLE FOR SUPPLYING PROPER QUANTITIES OF MATERIALS.
10. PROVIDE THE DISTRICT'S INSPECTOR WITH A COPY OF ALL CUT SHEETS PRIOR TO CONSTRUCTION.
11. PERMANENT ACCESS FOR DISTRICT SERVICE VEHICLES SHALL BE PROVIDED AT ALL MANHOLES. MANHOLES SHALL BE CONSTRUCTED AS PER DISTRICT STANDARD DETAILS, INCLUDING CONSTRUCTION OF CHANNELS. WHERE INDICATED, PROVIDE KNOCK-OUTS AND CHANNELIZATION FOR SIDE SEWER OR FUTURE MAINLINE EXTENSIONS; AND FOR PVC PIPE, PROVIDE A WATERTIGHT FLEXIBLE RUBBER BOOT OR HEAVY DUTY SAND COLLAR. PROVIDE WATER TIGHT LOCKING LIDS FOR MANHOLE COVERS.
12. CONNECTION TO EXISTING MAIN SHALL BE DONE SO AS TO PREVENTANY FOREIGN MATERIALS FROM ENTERING EXISTING SEWERS. EXISTING PIPE IN SADDLE MANHOLE INSTALLATIONS SHALL NOT BE CUT OR REMOVED UNTIL INSTRUCTED TO DO SO BY THE DISTRICT.
13. CONNECTION TO EXISTING MANHOLES SHALL BE MADE BY UTILIZATION OF A CONCRETE CORE- DRILLING MACHINE OF ADEQUATE DIAMETER TO GROUT IN PLACE AN ADAPTER IF PVC SEWER LINES ARE INSTALLED. ALIGN CORE-DRILLING MACHINE TO PROVIDE MINIMUM OF 0.10-FOOT DROP ACROSS THE MANHOLE.
14. PVC PIPE SHALL BE SDR-35 ASTM D3034 FURNISHED IN 13-FOOT MAXIMUM LENGTHS AND SHALL BE FULLY ENCASED IN PEA GRAVEL (OR CRUSHED ROCK, BASE COURSE, IF INSTALLED WITHIN THE CITY LIMITS OF EVERETT) EXTENDING FROM 4 INCHES BELOW TO 12 INCHES ABOVE PIPE BARREL.
15. DI SANITARY SEWER PIPE SHALL CONFORM TO AWWA C151 AND SHALL BE POLYETHYLENE OR EPOXY LINED, RESTRAINED JOINT. THE DI PIPE SHALL BE CLASS 52, UNLESS OTHERWISE APPROVED.
16. SEWERS TO BE LOCATED BELOW POTABLE WATER LINES, WITH 18-INCHES VERTICAL SEPARATION AND WITH A MINIMUM OF 10-FOOT HORIZONTAL SEPARATION FROM PARALLEL WATER LINES. CROSSING ANGLES SHALL BE 45 DEG. OR GREATER. UNUSUAL OR SPECIAL CONDITIONS ARE ADDRESSED IN ACCORDANCE WITH THE DEPARTMENT ECOLOGY AND DEPARTMENT OF HEALTH CRITERIA.
17. SIDE SEWER SHALL BE A MINIMUM OF 6 INCHES IN DIAMETER AND SHALL HAVE A MINIMUM SLOPE OF 2%. SIDE SEWER SHALL INCLUDE TWO 6-INCH TEES AT THE PROPERTY LINE; ONE WITHIN THE PUBLIC RIGHT-OF-WAY AND ONE WITHIN THE PRIVATE PROPERTY. SEE DETAIL.
18. ALL SEWER LINES SHALL BE CLEANED AND TESTED IN ACCORDANCE WITH DISTRICT STANDARDS AND SPECIFICATIONS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND/OR REPAIRING ASPHALT AND GRAVEL SURFACE DISTURBED AS A RESULT OF THIS CONSTRUCTION UNTIL THEY ARE ACCEPTED BY THE PUBLIC WORKS DEPARTMENT OF THE CITY AND/OR COUNTY.
20. COMPACTION: ALL TRENCH BACKFILL AND ROADWAY EMBANKMENT SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DRY MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557, EXCEPT THE TOP 6 INCHES IN PAVED AREAS WHICH SHALL BE 100%.
21. MANHOLE COVERS LOCATED IN ASPHALT AREAS SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO PAVING.
22. NO UTILITY FACILITIES WILL BE ACCEPTED BY THE DISTRICT IF PROPER INSPECTIONSHAVE NOT BEEN COMPLETED.
23. SEWER SERVICE IS AVAILABLE ONLY AFTER TRANSFER OF OWNERSHIP TO THE DISTRICT AND AFTER PAYMENT OF ALL CURRENT APPLICABLE FEES.

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GREG GUILLEN — STATE OF WASHINGTON — 35385 — REGISTERED PROFESSIONAL ENGINEER

01/04/24

MARK	DATE	DESCRIPTION
	01/04/24	PERMIT SUBMITTAL

DESIGN: NAT
DRAWN: JCP
CHECK: JPU
JOB NO: 22272.20
DATE: 01/04/24

HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

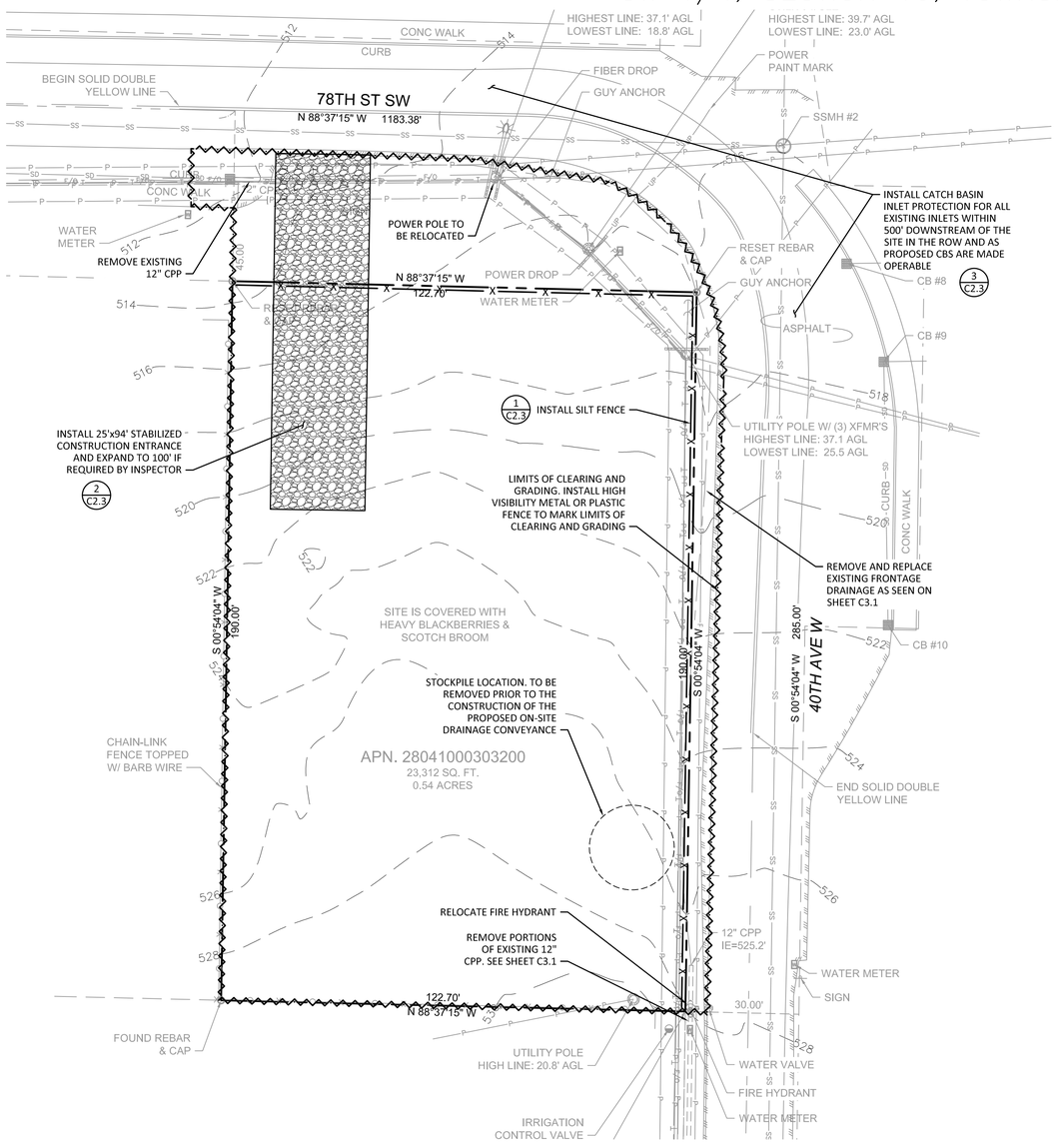
GENERAL NOTES

FILE NAME:

SHEET:

C1.3

SW 1/4, SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.



1 TEMPORARY EROSION CONTROL & DEMO PLAN

SCALE: 1" = 20'

20 0 10 20 40

EROSION CONTROL NOTES:

1. BEFORE BEGINNING LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRADING, CLEARLY MARK ALL CLEARING LIMITS AND SENSITIVE AREAS AND THEIR BUFFERS.
2. ALL DISTURBED AREAS ON AND OFF-SITE SHALL BE COMPOST- AMENDED PER THE REQUIREMENTS OF BMP T5.13 IN THE STORMWATER MANUAL VOLUME V, CHAPTER 11.
3. SOILS MUST BE STABILIZED AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST.
4. CONCRETE TRUCKS MUST NOT BE WASHED OUT ONTO THE GROUND, OR INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS. EXCESS CONCRETE MUST NOT BE DUMPED ON-SITE.
5. INSTALL CATCH BASIN INLET PROTECTION PER DETAIL 3/C2.3 FOR ALL EXISTING INLETS ON-SITE AND WITHIN 500' OF CONSTRUCTION SITE IN ROW AND AS PROPOSED DRAINAGE STRUCTURES ARE INSTALLED.
6. ADDITIONAL BMPS MAY BE REQUIRED DURING CONSTRUCTION.
7. CESCL SHALL UPDATE TESC MEASURES AS REQUIRED THROUGHOUT CONSTRUCTION.

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DESIGN:	NAT
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DATE:	01/04/24

HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

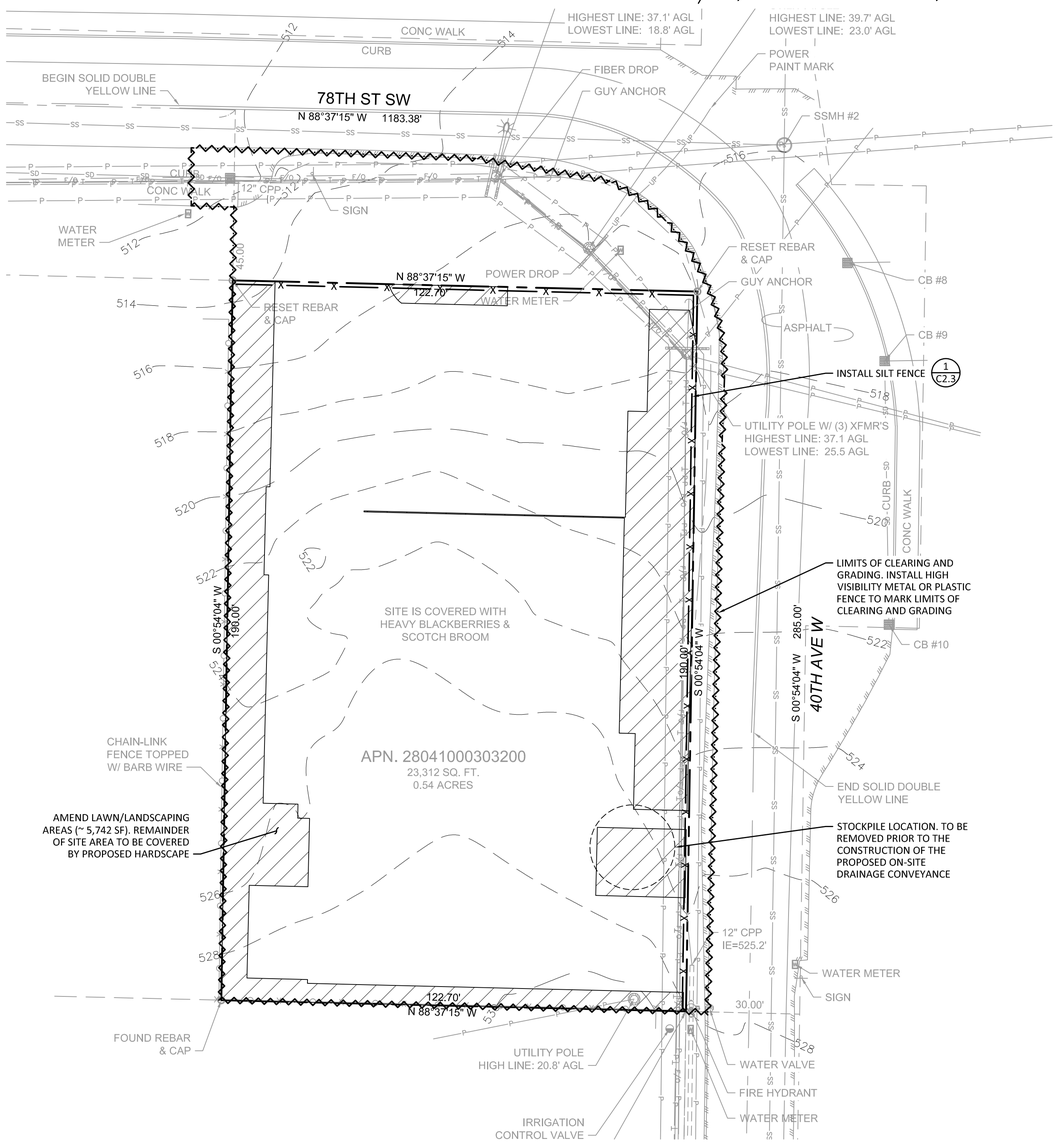
TEMPORARY EROSION CONTROL AND DEMO PLAN AND DETAILS

FILE NAME:

SHEET:

C2.1

SW 1/4, SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.



1 SOIL MANAGEMENT PLAN

SCALE: 1" = 20'

20 0 10 20 40

SOIL MANAGEMENT NOTES:

1. ALL DISTURBED AREAS ON AND OFF-SITE SHALL BE COMPOST- AMENDED PER THE REQUIREMENTS OF BMP T5.13 IN THE STORMWATER MANUAL VOLUME V, CHAPTER 11.
2. SEE SOIL MANAGEMENT PLAN WORKSHEET FOR FURTHER INFORMATION.

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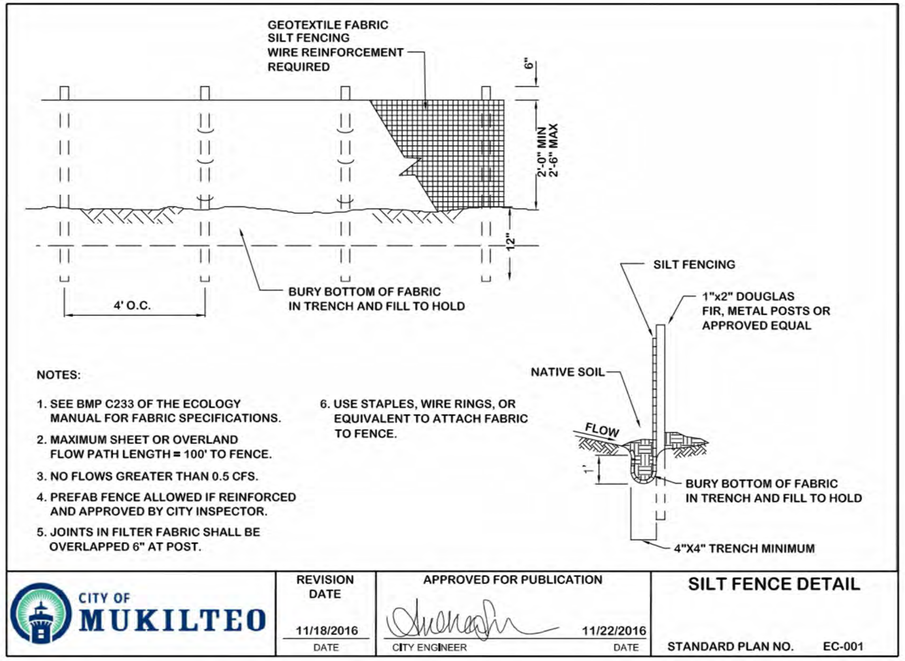
HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

SOIL MANAGEMENT PLAN

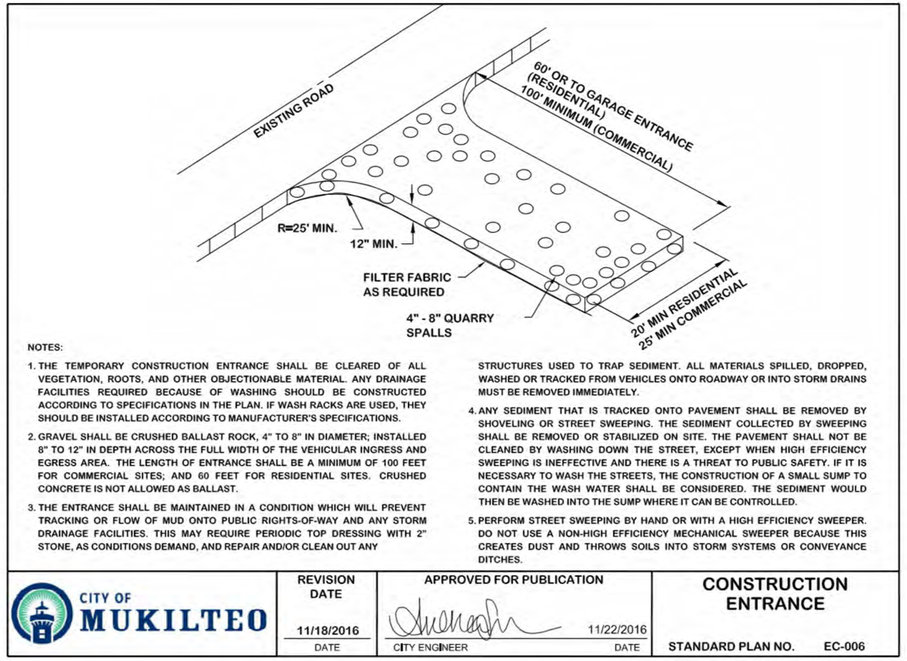
FILE NAME:

SHEET:

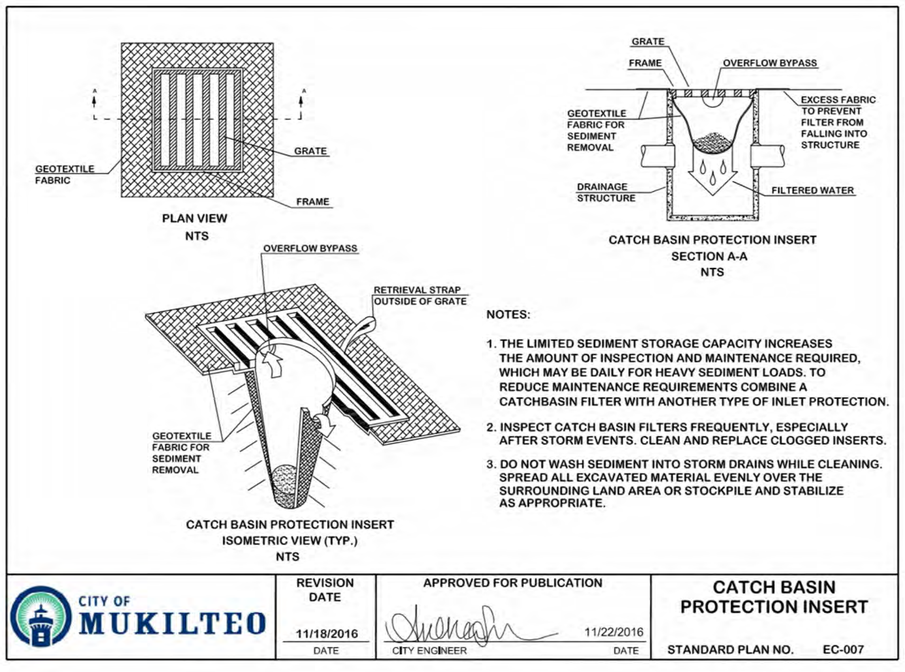
C2.2



1 CITY OF MUKILTEO STANDARD DETAIL
SCALE: NTS



2 CITY OF MUKILTEO STANDARD DETAIL
SCALE: NTS



3 CITY OF MUKILTEO STANDARD DETAIL
SCALE: NTS

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HARBOUR POINTE INDUSTRIAL
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MUKILTEO, WA 98275

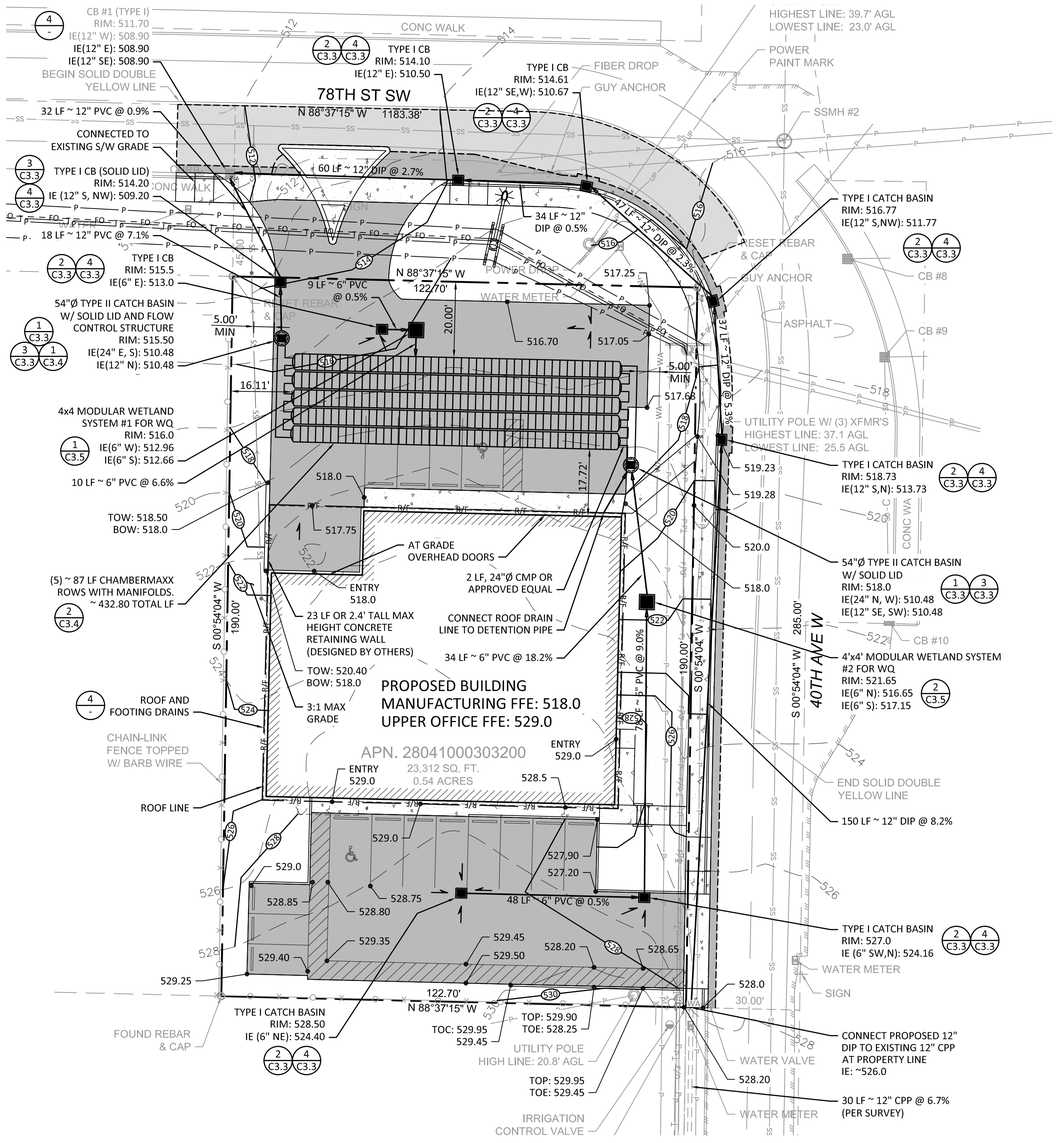
TEMPORARY EROSION CONTROL DETAILS

FILE NAME:

SHEET:

C2.3

SW 1/4, SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.



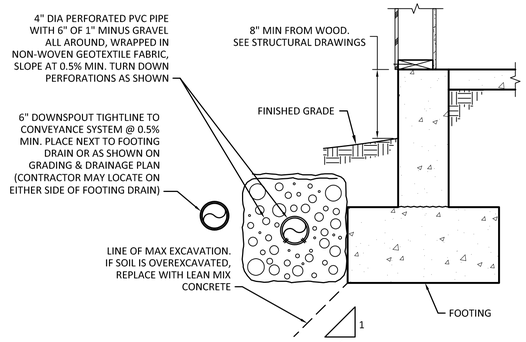
1 GRADING AND DRAINAGE

SCALE: 1" = 20'

20 0 10 20 40

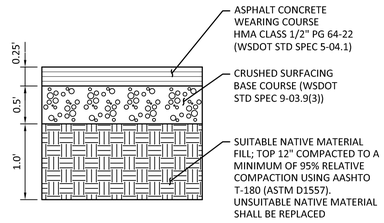
DRAINAGE PLAN NOTES:

1. SOILS REPORT
   REPORT NUMBER: 20220288E001
   PREPARED BY: ASSOCIATED EARTH SCIENCES, INC
   DATED: 09/22/2022
2. ALL DISTURBED AREAS ON AND OFF-SITE SHALL BE COMPOST- AMENDED PER THE REQUIREMENTS OF BMP T5.13 IN THE STORMWATER MANUAL VOLUME V, CHAPTER 5.
3. A MINIMUM OF 3' HORIZONTAL SEPARATION AND 1' VERTICAL SEPARATION IS REQUIRED BETWEEN DRY UTILITIES (POWER, GAS, PHONE, CABLE, ETC) AND SEWER, WATER AND STORM, AND A MINIMUM OF 5' HORIZONTAL SEPARATION AND 1' VERTICAL SEPARATION FROM ANY CITY-OWNED LINES.
4. A TYPE II CATCH BASIN IS REQUIRED WHENEVER RIM TO INVERT EXCEEDS 5'.
5. A MINIMUM OF 2' OF COVER IS REQUIRED FOR ALL PIPES LOCATED UNDER DRIVEABLE SURFACES AND 1' OF COVER UNDER LANDSCAPE SURFACES.
6. PRIOR TO PLACING ANY SURFACING MATERIAL ON THE ROADWAY, IT WILL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR TO PROVIDE DENSITY TEST REPORTS CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON.
7. NEW/REPLACED IMPERVIOUS SURFACE (INCLUDING ROW): 21,287 SF
   --NEW BUILDING: 6,901 SF ROOF AREA (INCLUDES OVERHANGS). RUNOFF ROUTED TO DETENTION THROUGH ROOF DRAINS.
   --NEW/REPLACED SIDEWALK: 3,024 SF. DETENTION SIZED TO INCLUDE SIDEWALK AREA EVEN THOUGH PORTIONS OF THE SIDEWALK RUNOFF WILL FLOW INTO THE GUTTER AND PUBLIC STORM SYSTEM. ALL OTHER NEW SIDEWALK AREAS WILL FLOW TO DETENTION PIPE.
   --NEW/REPLACED ASPHALT: 11,272 SF. DETENTION SIZED TO INCLUDE ASPHALT AREA EVEN THOUGH PORTIONS OF THE ASPHALT RUNOFF WILL FLOW INTO THE GUTTER AND PUBLIC STORM SYSTEM. ALL OTHER NEW ASPHALT AREAS WILL FLOW TO DETENTION PIPE.
8. SEE C3.3 FOR CATCH BASIN DETAILS.



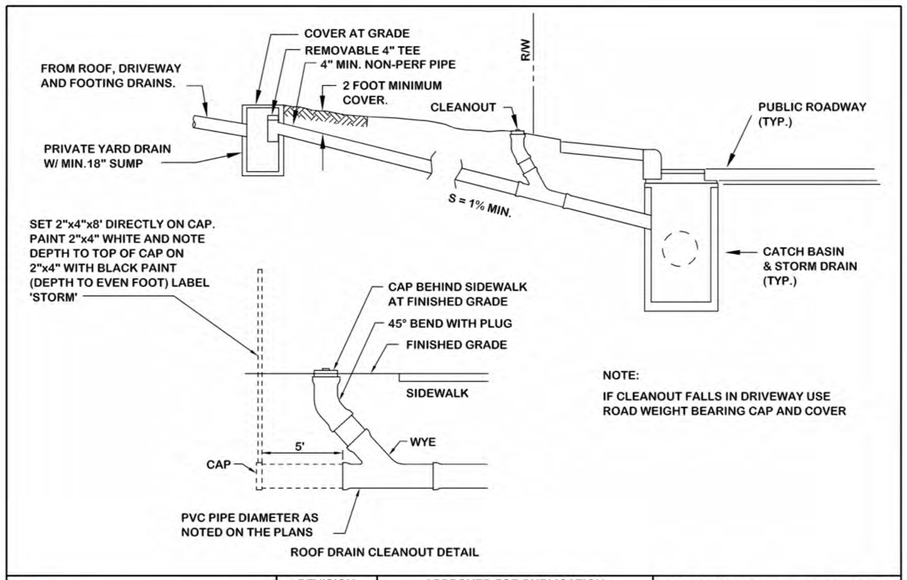
2 FOOTING AND ROOF DRAIN SECTION

SCALE: NTS



3 TYPICAL PAVEMENT SECTION

SCALE: 1" = 1'-0"



ROOF DRAIN CLEANOUT DETAIL

CITY OF MUKILTEO	REVISION DATE	APPROVED FOR PUBLICATION	INDIVIDUAL LOT & ROOF DRAIN PLAN DETAILS
	11/18/2016 DATE	11/22/2016 CITY ENGINEER / DATE	STANDARD PLAN NO. SW-018

4 CITY OF MUKILTEO STANDARD DETAIL

SCALE: NTS

GRADING QUANTITIES

TOTAL EXCAVATION (CUT) -	1,450 CU YDS TOTAL
EMBANKMENT (FILL) -	1,050 CU YDS
TOTAL	2,500 CU YDS

THE QUANTITIES SHOWN ABOVE ARE FOR THE PERMIT PROCESS ONLY. THESE VALUES ARE APPROXIMATE. DO NOT USE FOR BIDDING, PAYMENT, OR ESTIMATING PURPOSES.

PAVING LEGEND

- NEW ASPHALT/UTILITY SAWCUT
- OVERLAY EXISTING ASPHALT
- NEW CONCRETE

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HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

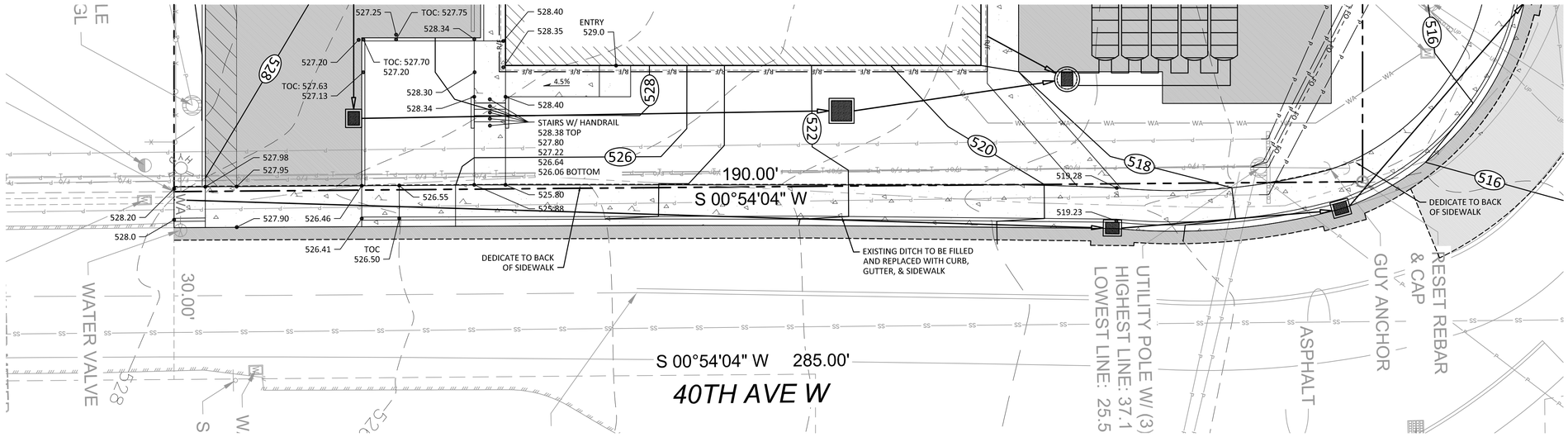
GRADING & DRAINAGE PLANS AND DETAILS

FILE NAME:

SHEET:

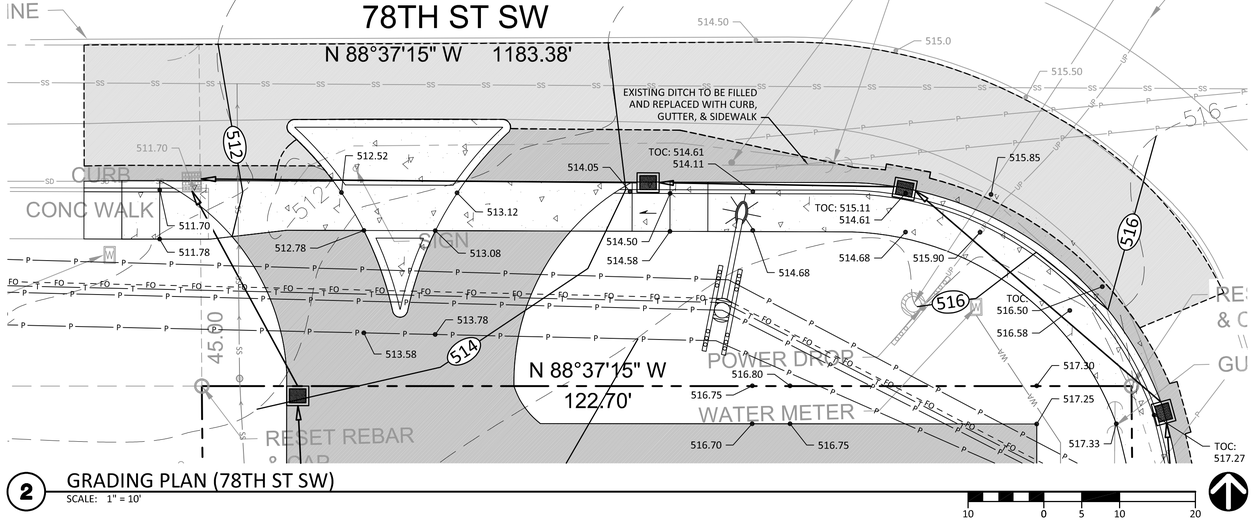
C3.1

SW 1/4, SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.



1 GRADING PLAN (40TH AVE WEST)
SCALE: 1" = 10'

10 0 5 10 20



2 GRADING PLAN (78TH ST SW)
SCALE: 1" = 10'

10 0 5 10 20

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GREG GUILLEN
STATE OF WASHINGTON
35385
REGISTERED
PROFESSIONAL ENGINEER

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HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

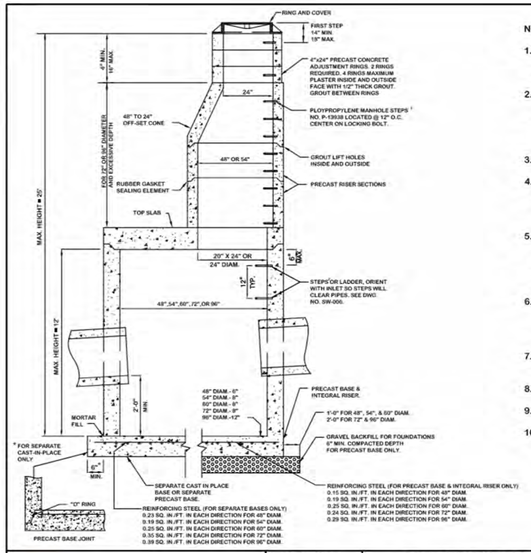
GRADING PLANS

FILE NAME:

SHEET:

C3.2

SW 1/4, SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.

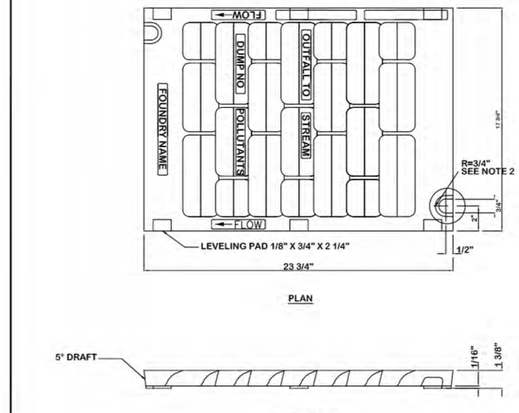


NOTES:

1. CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASHTOM 199) & C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
2. HANDHOLDS IN ADJUSTMENT SECTION SHALL HAVE 3" MIN. CLEARANCE. STEPS IN CATCH BASIN SHALL HAVE 6" MIN. CLEARANCE. SEE DWG. SW-010, CATCH BASIN DETAILS. HANDHOLDS SHALL BE PLACED IN ALTERNATING GRADE RINGS OR LEVELING BRICK COURSE WITH A MIN. OF ONE HANDHOLD BETWEEN THE LAST STEP AND TOP OF THE MANHOLE.
3. ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT. PIPE SHALL BE INSTALLED ONLY IN FACTORY KNOCKOUTS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
5. KNOCKOUT OR CUTOUT HOLE SIZE SHALL EQUAL PIPE OUTER DIAM. PLUS CATCH BASIN WALL THICKNESS.MAX HOLE SIZE SHALL BE 36" FOR 48" CATCH BASIN, 42" FOR 54" C.B., 48" FOR 60" C.B., 60" FOR 72" C.B., 84" FOR 96" C.B. MIN. DISTANCE BETWEEN HOLES SHALL BE 8" FOR 48", 54" AND 60" C.B.; 12" FOR 72" AND 96" C.B.
6. CATCH BASIN FRAMES AND GRATES SHALL BE IN ACCORDANCE WITH STANDARD PLANS AND MEET STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-621D. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
7. ALL BASE REINFORCING STEEL SHALL HAVE A MIN. YIELD STRENGTH OF 60,000 PSI AND BE PLACED IN THE UPPER HALF OF THE BASE WITH 1" MIN. CLEARANCE.
8. MIN. SOIL BEARING VALUE SHALL EQUAL 3,300 POUNDS PER SQUARE FOOT.
9. FOR DETAILS SHOWING LADDER, STEPS, HANDRAILS AND TOP SLABS, SEE DWG. NO. SW-010.
10. SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SEC. 7-05.3 FOR JOINT REQUIREMENTS.

CITY OF MUKILTEO	REVISION DATE	APPROVED FOR PUBLICATION	CATCH BASIN TYPE-2 48", 54", 72", 96"
	11/18/2016 DATE	11/22/2016 DATE / CITY ENGINEER	STANDARD PLAN NO. SW-004

1 CITY OF MUKILTEO STANDARD DETAIL
SCALE: NTS

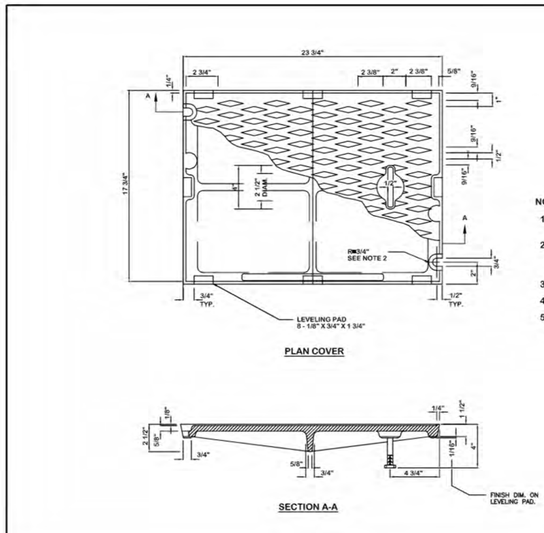


NOTES:

1. SELF-LOCK VANED GRATE MANUFACTURER SUBJECT TO APPROVAL BY ENGINEER.
2. USE WITH TWO LOCKING BOLTS 5/8"-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS 2" LONG.
3. MATERIAL IS DUCTILE IRON ASTM A536 GRADE 80-55-06.
4. "OUTFALL TO STREAM DUMP NO POLLUTANTS" MAY BE LOCATED ON BORDER AREA.
5. SEE STANDARD PLAN SW-007 FOR FRAME.

CITY OF MUKILTEO	REVISION DATE	APPROVED FOR PUBLICATION	VANED GRATE
	11/18/2016 DATE	11/22/2016 DATE / CITY ENGINEER	STANDARD PLAN NO. SW-005

2 CITY OF MUKILTEO STANDARD DETAIL
SCALE: NTS

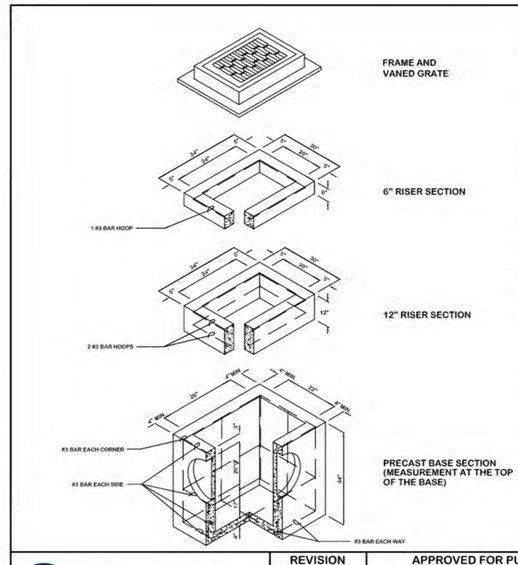


NOTES:

1. USE WITH FRAME (DWG. NO. SW-007) DRILLED AND TAPPED FOR LOCKING BOLTS.
2. USE WITH TWO LOCKING BOLTS 5/8"-11 NC STAINLESS STEEL TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS, 2" LONG.
3. MATERIAL IS CAST IRON PER ASTM A48 CLASS 30.
4. RAISED WORDING "DRAIN" OR "STORM" ON ALL COVERS.
5. IF LOCATED WITHIN A PEDESTRIAN ACCESS ROUTE COVER SHALL BE COATED WITH NON-SLIP/NON-SKID SURFACING PER DEVELOPMENT STANDARDS

CITY OF MUKILTEO	REVISION DATE	APPROVED FOR PUBLICATION	SOLID COVER
	11/22/2016 DATE	11/22/2016 DATE / CITY ENGINEER	STANDARD PLAN NO. SW-006

3 CITY OF MUKILTEO STANDARD DETAIL
SCALE: NTS



NOTES:

1. CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASHTOM 199) & C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
2. AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTOM 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
3. ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN AND 2.5" MAX. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
5. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAM. PLUS CATCH BASIN WALL THICKNESS.
6. KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAX. DIAM. OF 20". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
7. THE MAX. DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'-0".
8. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED ¾"/FT.
9. CATCH BASIN INSERT FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND MEET STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-621D. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
10. FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.
11. FOR CATCH BASINS IN PARKING LOTS REFER TO WSDOT/APWA STANDARD DWG. B-5.60.
12. EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.
13. MINIMUM 4" ADJUSTMENT SECTION BETWEEN BOTTOM OF GRATE AND TOP OF BASE SECTION.
14. GROUT ALL JOINTS INSIDE AND OUTSIDE.

CITY OF MUKILTEO	REVISION DATE	APPROVED FOR PUBLICATION	CATCH BASIN TYPE-1 (18" MAX. PIPE DIA.)
	11/18/2016 DATE	11/22/2016 DATE / CITY ENGINEER	STANDARD PLAN NO. SW-001

4 CITY OF MUKILTEO STANDARD DETAIL
SCALE: NTS

CG ENGINEERING
250 4TH AVE. S., SUITE 200
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PHONE (425) 778-8500
FAX (425) 778-5536

GREG GUILLEN — STATE OF WASHINGTON — 35385 — REGISTERED PROFESSIONAL ENGINEER

01/04/24

MARK	DATE	DESCRIPTION
	01/04/24	PERMIT SUBMITTAL

DESIGN:	NAT
DRAWN:	JCP
CHECK:	JPU
JOB NO:	22272.20
DATE:	01/04/24

HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

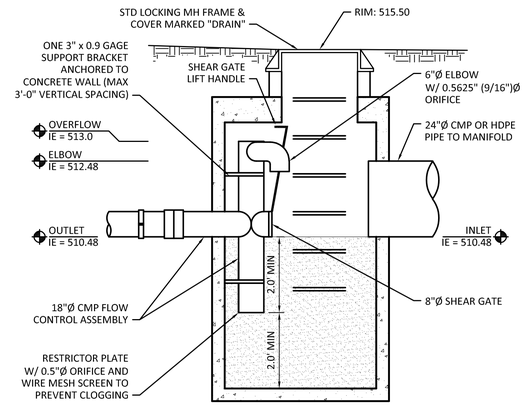
GRADING & DRAINAGE DETAILS

FILE NAME:

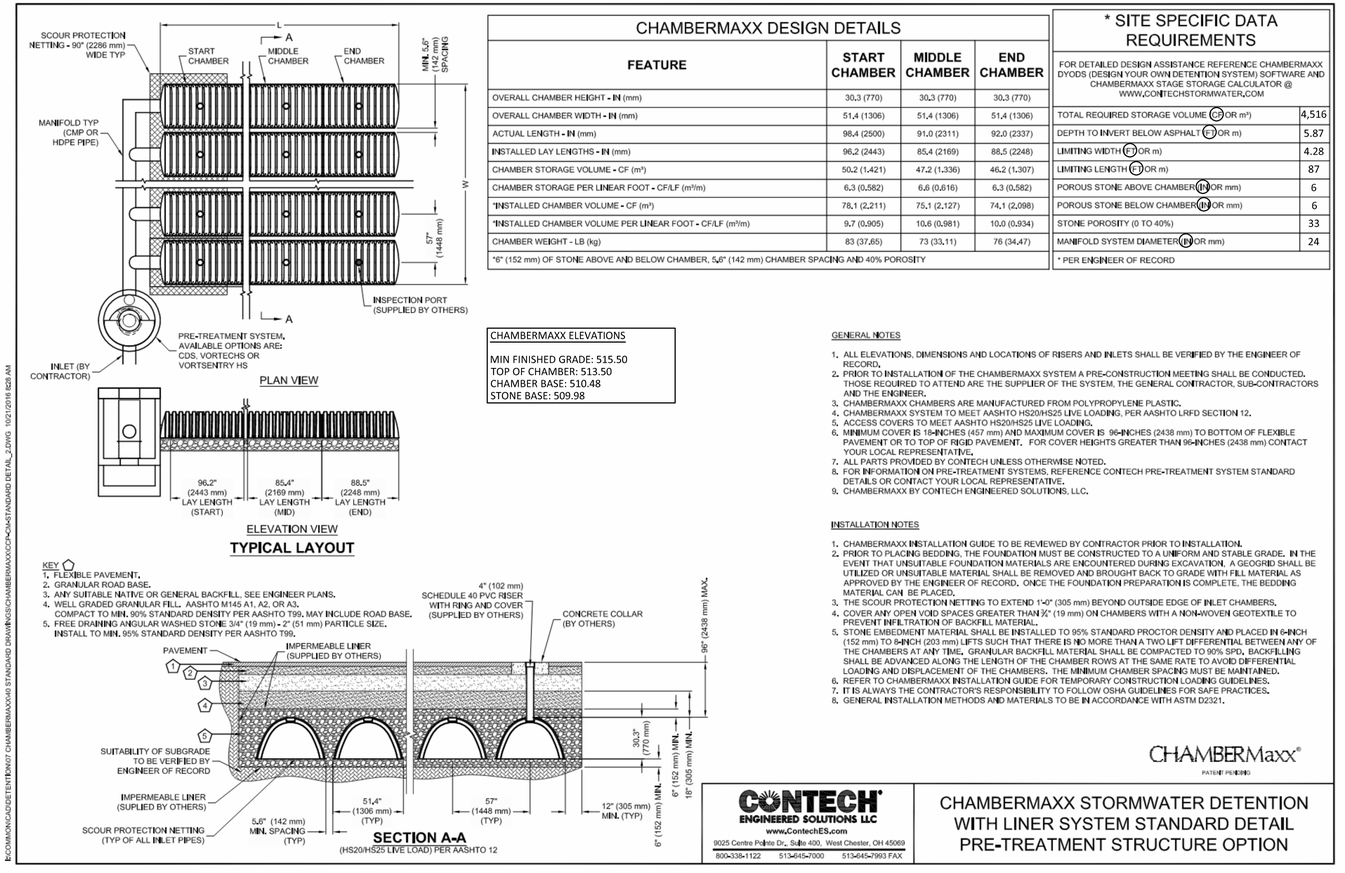
SHEET:

C3.3

SW 1/4, SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.



1 FLOW CONTROL STRUCTURE SECTION
SCALE: 1/2" = 1'-0"



2 CONTECH ENGINEERED SOLUTIONS LLC STANDARD DETAIL
SCALE: 1" = 1'-0"

CHAMBERMAXX DESIGN DETAILS

FEATURE	START CHAMBER	MIDDLE CHAMBER	END CHAMBER
OVERALL CHAMBER HEIGHT - IN (mm)	30,3 (770)	30,3 (770)	30,3 (770)
OVERALL CHAMBER WIDTH - IN (mm)	51,4 (1306)	51,4 (1306)	51,4 (1306)
ACTUAL LENGTH - IN (mm)	98,4 (2500)	91,0 (2311)	92,0 (2337)
INSTALLED LAY LENGTHS - IN (mm)	96,2 (2443)	85,4 (2169)	88,5 (2248)
CHAMBER STORAGE VOLUME - CF (m³)	50,2 (1,421)	47,2 (1,336)	46,2 (1,307)
CHAMBER STORAGE PER LINEAR FOOT - CF/LF (m³/m)	6,3 (0,582)	6,6 (0,616)	6,3 (0,582)
*INSTALLED CHAMBER VOLUME - CF (m³)	78,1 (2,211)	75,1 (2,127)	74,1 (2,098)
*INSTALLED CHAMBER VOLUME PER LINEAR FOOT - CF/LF (m³/m)	9,7 (0,905)	10,6 (0,981)	10,0 (0,934)
CHAMBER WEIGHT - LB (kg)	83 (37,65)	73 (33,11)	76 (34,47)

*6" (152 mm) OF STONE ABOVE AND BELOW CHAMBER, 5,6" (142 mm) CHAMBER SPACING AND 40% POROSITY

* SITE SPECIFIC DATA REQUIREMENTS

FOR DETAILED DESIGN ASSISTANCE REFERENCE CHAMBERMAXX DYODS (DESIGN YOUR OWN DETENTION SYSTEM) SOFTWARE AND CHAMBERMAXX STAGE STORAGE CALCULATOR @ WWW.CONTECHSTORMWATER.COM

TOTAL REQUIRED STORAGE VOLUME (CF OR m³)	4,516
DEPTH TO INVERT BELOW ASPHALT (FT OR m)	5.87
LIMITING WIDTH (FT OR m)	4.28
LIMITING LENGTH (FT OR m)	87
POROUS STONE ABOVE CHAMBER (IN OR mm)	6
POROUS STONE BELOW CHAMBER (IN OR mm)	6
STONE POROSITY (0 TO 40%)	33
MANIFOLD SYSTEM DIAMETER (IN OR mm)	24

* PER ENGINEER OF RECORD

CHAMBERMAXX ELEVATIONS

MIN FINISHED GRADE: 515.50
TOP OF CHAMBER: 513.50
CHAMBER BASE: 510.48
STONE BASE: 509.98

GENERAL NOTES

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

INSTALLATION NOTES

1. CHAMBERMAXX INSTALLATION GUIDE TO BE REVIEWED BY CONTRACTOR PRIOR TO INSTALLATION.
2. PRIOR TO PLACING BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, A GEOGRID SHALL BE UTILIZED OR UNSUITABLE MATERIAL SHALL BE REMOVED AND BROUGHT BACK TO GRADE WITH FILL MATERIAL AS APPROVED BY THE ENGINEER OF RECORD. ONCE THE FOUNDATION PREPARATION IS COMPLETE, THE BEDDING MATERIAL CAN BE PLACED.
3. THE SCOUR PROTECTION NETTING TO EXTEND 1'-0" (305 mm) BEYOND OUTSIDE EDGE OF INLET CHAMBERS.
4. COVER ANY OPEN VOID SPACES GREATER THAN ¾" (19 mm) ON CHAMBERS WITH A NON-WOVEN GEOTEXTILE TO PREVENT INFILTRATION OF BACKFILL MATERIAL.
5. STONE EMBEDMENT MATERIAL SHALL BE INSTALLED TO 95% STANDARD PROCTOR DENSITY AND PLACED IN 6-INCH (152 mm) TO 9-INCH (203 mm) LIFTS SUCH THAT THERE IS NO MORE THAN A TWO LIFT DIFFERENTIAL BETWEEN ANY OF THE CHAMBERS AT ANY TIME. GRANULAR BACKFILL MATERIAL SHALL BE COMPACTED TO 90% SPD. BACKFILLING SHALL BE ADVANCED ALONG THE LENGTH OF THE CHAMBER ROWS AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING AND DISPLACEMENT OF THE CHAMBERS. THE MINIMUM CHAMBER SPACING MUST BE MAINTAINED.
6. REFER TO CHAMBERMAXX INSTALLATION GUIDE FOR TEMPORARY CONSTRUCTION LOADING GUIDELINES.
7. IT IS ALWAYS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.
8. GENERAL INSTALLATION METHODS AND MATERIALS TO BE IN ACCORDANCE WITH ASTM D2321.

CHAMBERMaxx®
PATENT PENDING

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

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

E:\COMMON\CAD\CONTECH\NOT CHAMBERMAXX\MS STANDARD DRAWINGS\CHAMBERMAXX\CC2=24\STANDARD DETAIL_2.DWG 10/21/2016 8:28 AM

CG ENGINEERING
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FAX (425) 778-5536

GREG GUILLEN — STATE OF WASHINGTON — 25385 REGISTERED PROFESSIONAL ENGINEER

01/04/24

MARK	DATE	DESCRIPTION
	01/04/24	PERMIT SUBMITTAL

DESIGN:	NAT
DRAWN:	JCP
CHECK:	JPU
JOB NO:	22272.20
DATE:	01/04/24

HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

GRADING & DRAINAGE DETAILS

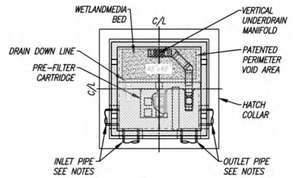
FILE NAME:

SHEET:

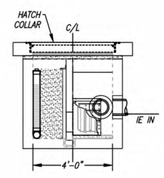
C3.4

SITE SPECIFIC DATA			
PROJECT NUMBER	TBD		
PROJECT NAME	HARBOUR POINTE		
PROJECT LOCATION	78XX 40TH AVE W		
STRUCTURE ID	TBD		
TREATMENT REQUIRED			
TREATMENT FLOW (CFS)	0.016		
PRETREATMENT LOADING RATE (GPM/SF)	2.1 GPM/S		
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0		
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	512.96	PVC	6"
INLET PIPE 2			
OUTLET PIPE	512.66	PVC	6"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION		516.0	
SURFACE LOAD	HS-20		
NOTES:	FACILITY TO BE SIZED BY MANUFACTURER IN FUTURE STAGES.		

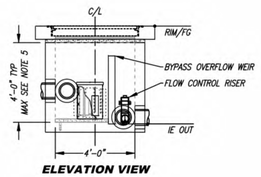
* PRELIMINARY ONLY - NOT FOR CONSTRUCTION



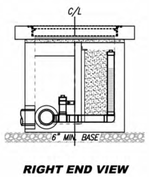
PLAN VIEW



LEFT END VIEW



ELEVATION VIEW



RIGHT END VIEW

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
3. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL PIPES SHALL BE SEALED WATERTIGHT PER MANUFACTURER'S STANDARD CONNECTION DETAIL.
4. CONTRACTOR RESPONSIBLE FOR CONTACTING CONTECH FOR ACTIVATION OF UNIT. MANUFACTURER'S WARRANTY IS VOID WITHOUT PROPER ACTIVATION BY A CONTECH REPRESENTATIVE.
5. VERTICAL HEIGHT VARIES BASED ON SITE SPECIFIC REQUIREMENTS.

MODULAR WETLANDS — FOR PATENT INFORMATION, GO TO www.ContechES.com/IP

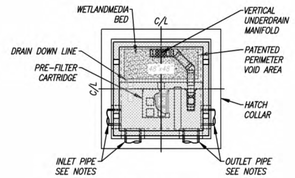
CONTECH ENGINEERED SOLUTIONS LLC — www.ContechES.com

MWS-L-4-4-V-UG
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

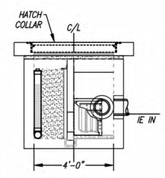
1 CONTECH ENGINEERED SOLUTIONS LLC STANDARD DETAIL
SCALE: 1" = 1'-0"

SITE SPECIFIC DATA			
PROJECT NUMBER	TBD		
PROJECT NAME	HARBOUR POINTE		
PROJECT LOCATION	78XX 40TH AVE W		
STRUCTURE ID	TBD		
TREATMENT REQUIRED			
TREATMENT FLOW (CFS)	0.012		
PRETREATMENT LOADING RATE (GPM/SF)	2.1 GPM/S		
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0		
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	517.15	PVC	6"
INLET PIPE 2			
OUTLET PIPE	516.65	PVC	6"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION		521.65	
SURFACE LOAD	HS-20		
NOTES:	FACILITY TO BE SIZED BY MANUFACTURER IN FUTURE STAGES.		

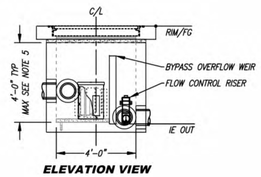
* PRELIMINARY ONLY - NOT FOR CONSTRUCTION



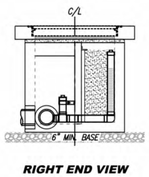
PLAN VIEW



LEFT END VIEW



ELEVATION VIEW



RIGHT END VIEW

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
3. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL PIPES SHALL BE SEALED WATERTIGHT PER MANUFACTURER'S STANDARD CONNECTION DETAIL.
4. CONTRACTOR RESPONSIBLE FOR CONTACTING CONTECH FOR ACTIVATION OF UNIT. MANUFACTURER'S WARRANTY IS VOID WITHOUT PROPER ACTIVATION BY A CONTECH REPRESENTATIVE.
5. VERTICAL HEIGHT VARIES BASED ON SITE SPECIFIC REQUIREMENTS.

MODULAR WETLANDS — FOR PATENT INFORMATION, GO TO www.ContechES.com/IP

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MWS-L-4-4-V-UG
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

2 CONTECH ENGINEERED SOLUTIONS LLC STANDARD DETAIL
SCALE: 1" = 1'-0"

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HARBOUR POINTE INDUSTRIAL
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MUKILTEO, WA 98275

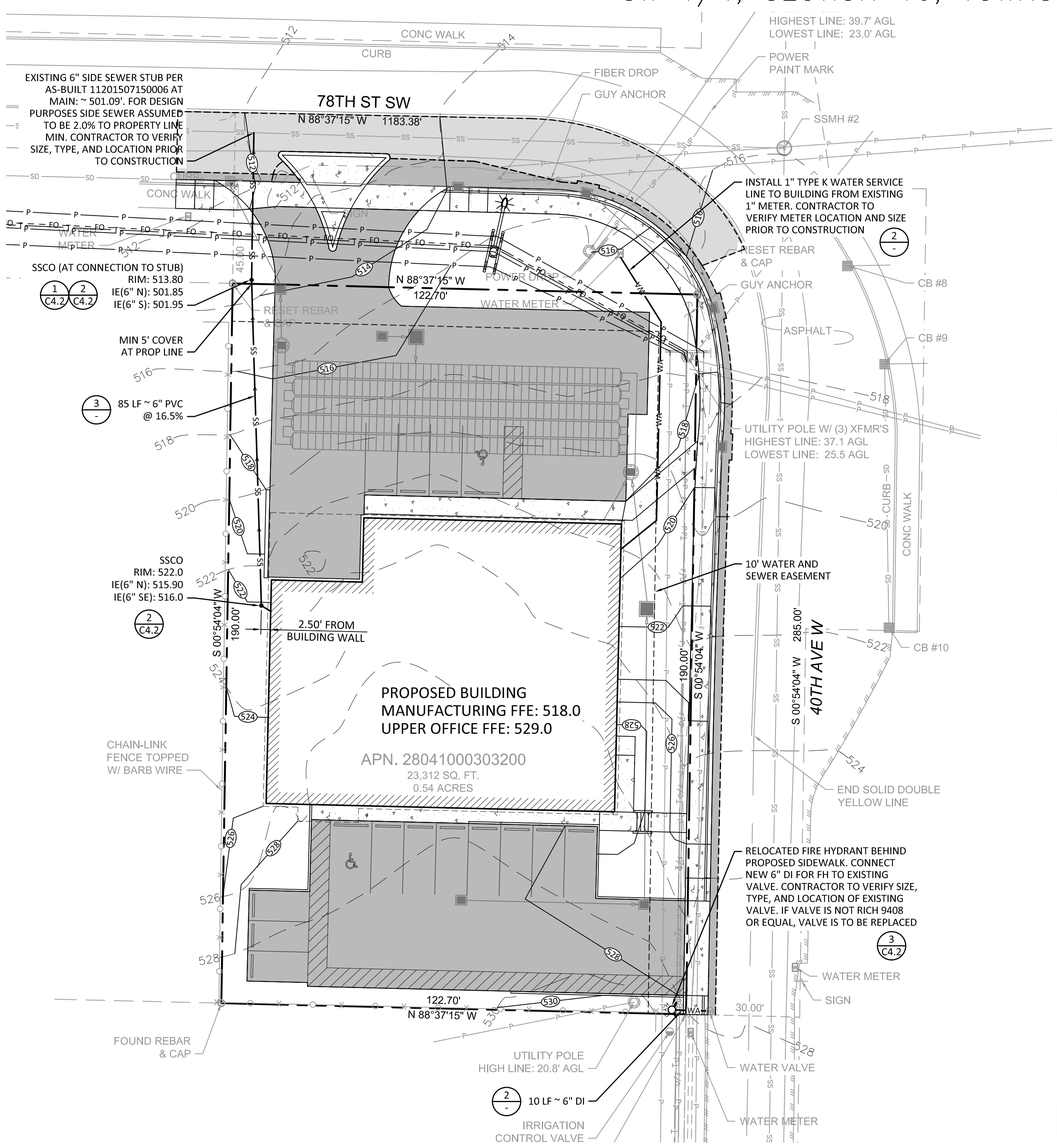
GRADING & DRAINAGE DETAILS

FILE NAME:

SHEET:

C3.5

SW 1/4, SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.



1 WATER AND SEWER PLAN

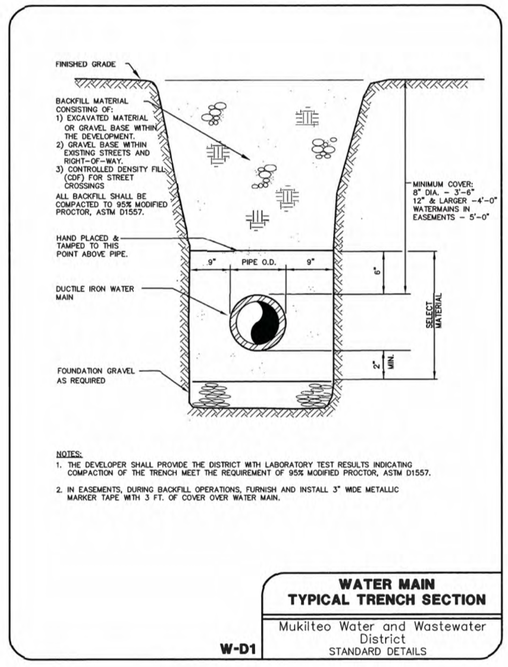
SCALE: 1" = 20'

20 0 10 20 40

WATER AND SEWER PLAN NOTES:

1. PLUMBING CONSULTANT TO VERIFY METER & SERVICE SIZE. SIZING TO BE CONFIRMED ONCE PLUMBING PERMIT IS ISSUED AND REVIEWED.
2. PLUMBING CONSULTANT TO VERIFY SIZE OF EXISTING SEWER STUB IS ADEQUATE FOR PROPOSED BLDG.
3. ALL THRUST BLOCKING PER 4/C4.2.
4. PIPE BEDDING AND WATER TRENCHING PER DETAILS 2 & 3 THIS SHEET.
5. EXISTING LATERAL SHALL BE INSPECTED BY THE CITY SEWER DIVISION TO DETERMINE IF IT IS IN ACCEPTABLE CONDITION FOR REUSE. IF NOT, A NEW 6" LATERAL FROM THE MAIN TO THE PROPERTY LINE WILL BE REQUIRED.
6. CITY WILL TV SEWER MAIN PRIOR TO FINAL ACCEPTANCE.
7. A MINIMUM OF 3' SEPARATION IS REQUIRED BETWEEN THE DRY UTILITIES (POWER, GAS, PHONE, CABLE, ETC) AND SEWER, WATER AND STORM.
8. A MINIMUM OF 5' OF HORIZONTAL SEPARATION IS REQUIRED BETWEEN WATER AND STORM LINES.

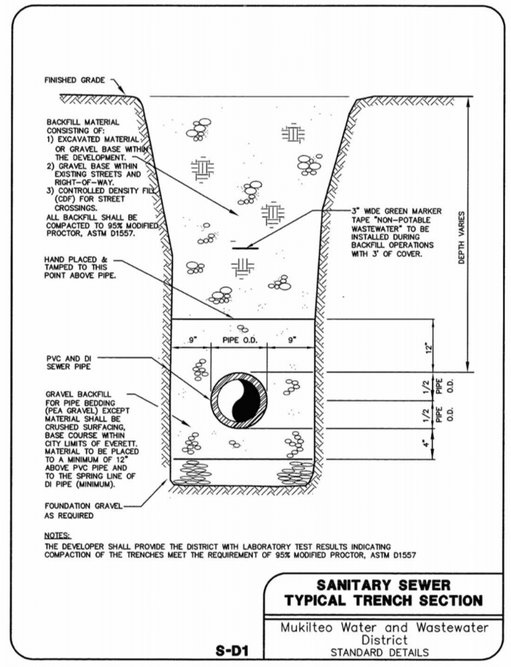
2018



2 MUKILTEO STANDARD DETAIL

SCALE: NTS

2018



3 MUKILTEO STANDARD DETAIL

SCALE: NTS

APPROVAL BLOCK

Approved by: _____ _____
Mukilteo Water and Wastewater District — Date

Mukilteo Water and Wastewater District Extension No. _____

Gray & Osborne No. _____

Project must be completed and ownership transferred to the Mukilteo Water and Wastewater District within 1 year from the date of approval. In the event that the project developer fails to do so, the project will be subject to reapplication, additional plan review and revision, due to any changes in District standards or requirements occurring prior to completion and transfer of ownership. Water/sewer service is available only after payment of all current fees, recording of easements and transfer of ownership to the District.

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GREG GUILLEN — STATE OF WASHINGTON — 35385 — REGISTERED PROFESSIONAL ENGINEER

01/04/24

MARK	DATE	DESCRIPTION
	01/04/24	PERMIT SUBMITTAL

DESIGN:	NAT
DRAWN:	JCP
CHECK:	JPU
JOB NO:	22272.20
DATE:	01/04/24

HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

WATER AND SEWER PLAN AND DETAILS

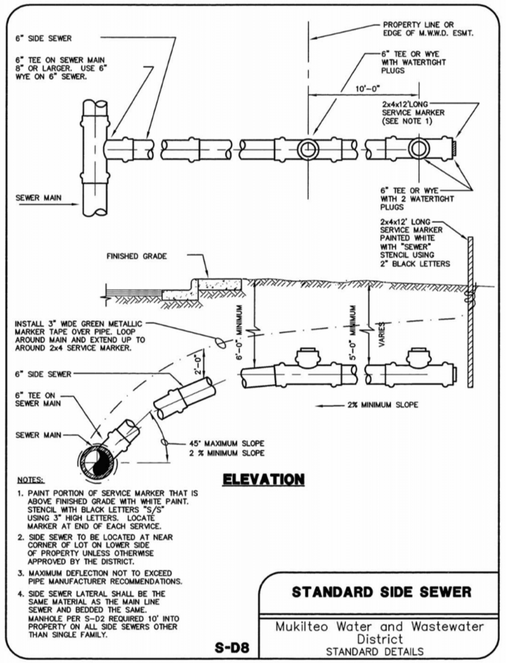
FILE NAME:

SHEET:

C4.1

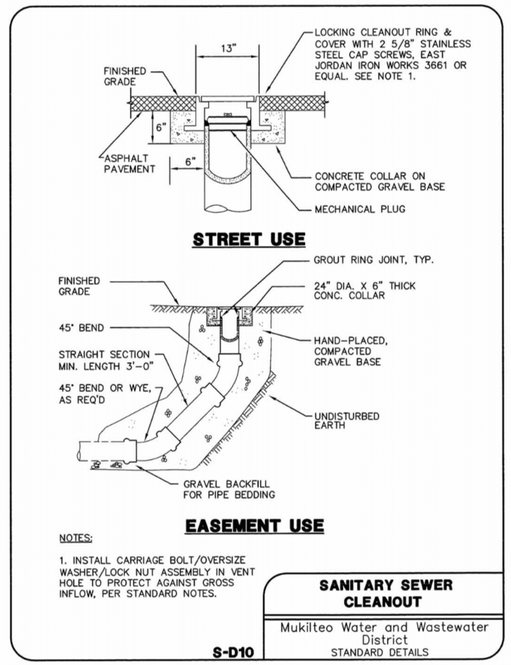
SW 1/4, SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.

2018



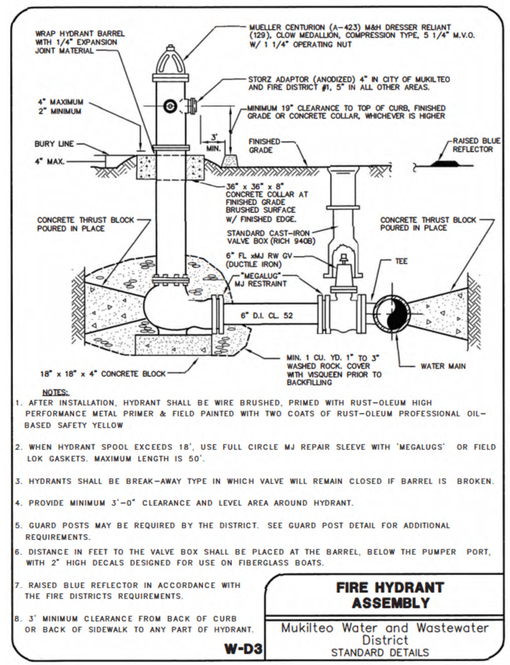
1 MUKILTEO STANDARD DETAIL
SCALE: NTS

2018



2 MUKILTEO STANDARD DETAIL
SCALE: NTS

2018



3 MUKILTEO STANDARD DETAIL
SCALE: NTS

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GREG GUILLEN — STATE OF WASHINGTON — 25385 REGISTERED PROFESSIONAL ENGINEER

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HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

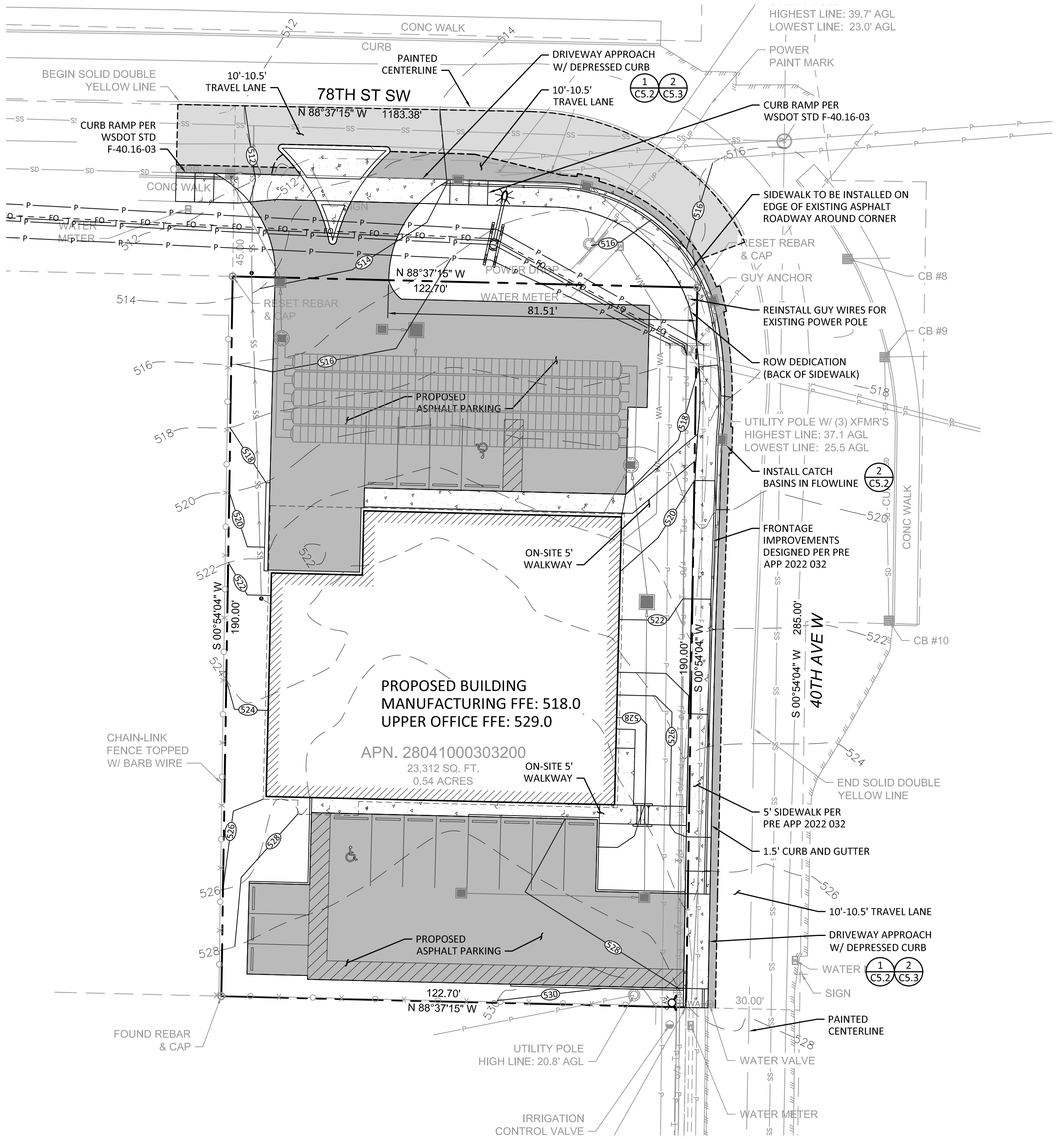
SEWER DETAILS

FILE NAME

SHEET:

C4.2

SW 1/4, SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.



1 SITE IMPROVEMENT PLAN

SCALE: 1" = 20'

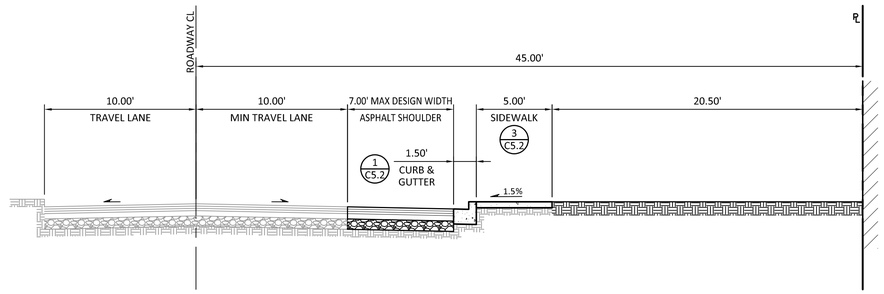
SITE AND STREET IMPROVEMENT PLAN NOTES:

1. SUBGRADE MUST BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY FOR ALL STREET IMPROVEMENTS.
2. A RIGHT-OF-WAY (ROW) PERMIT IS REQUIRED PRIOR TO ANY USE OF AND/OR WORK IN THE PUBLIC ROW OR REAL PROPERTY OWNED BY THE CITY.
3. ALL TRAFFIC CONTROL DEVICES, SIGNING, STRIPING AND OTHER PAVEMENT DELINEATION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
4. WHEN TRENCHING THROUGH EXISTING PAVEMENT, THE OPEN CUT SHALL BE A NEAT LINE MADE BY SAW CUTTING A CONTINUOUS LINE. SAW CUTTING WILL BE REQUIRED UNLESS THE CUT IS MADE PRIOR TO RECONSTRUCTION OR AN OVERLAY.
5. TEMPORARY PAVEMENT PATCH SHALL BE ACCOMPLISHED BY USING COLD MIX (MC 250), ATB OR STEEL PLATES.
6. WHERE TRENCH EXCAVATION EQUALS OR EXCEEDS A DEPTH OF FOUR FEET, THE DEVELOPER/CONTRACTOR SHALL PROVIDE, CONSTRUCT, MAINTAIN, AND REMOVE, AS REQUIRED, SAFETY SYSTEMS THAT MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, RCW 49.17, INCLUDING WAC 296-155. THE TRENCH SAFETY SYSTEMS SHALL BE DESIGNED BY A QUALIFIED PERSON, AND MEET ACCEPTED ENGINEERING REQUIREMENTS (SEE WAC 296-155-660).
7. THE DEVELOPER/CONTRACTOR SHALL FURNISH, INSTALL, AND OPERATE ALL NECESSARY EQUIPMENT TO KEEP EXCAVATIONS ABOVE THE FOUNDATION LEVEL FREE FROM WATER DURING CONSTRUCTION, AND SHALL DEWATER AND DISPOSE OF THE WATER SO AS NOT TO CAUSE INJURY TO PUBLIC OR PRIVATE PROPERTY OR NUISANCE TO THE PUBLIC. SUFFICIENT PUMPING EQUIPMENT IN GOOD WORKING CONDITION SHALL BE AVAILABLE AT ALL TIMES FOR ALL EMERGENCIES, INCLUDING POWER OUTAGE, AND SHALL HAVE AVAILABLE AT ALL TIMES COMPETENT WORKMEN FOR THE OPERATION OF THE PUMPING EQUIPMENT.
8. COMPACTION TESTS SHALL BE PERFORMED TO ENSURE ADEQUATE COMPACTION ON ALL LIFTS. ALL COMPACTION TESTS SHALL BE CONDUCTED BY A LICENSED TESTING LABORATORY AT THE EXPENSE OF THE DEVELOPER/CONTRACTOR. SEE SECTION 3-9.4 OF THESE SPECIFICATIONS.
9. WATER SETTING OF BACKFILL IN TRENCHES IS NOT PERMITTED.

20 0 10 20 40

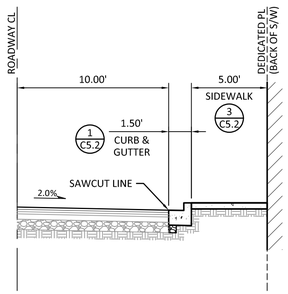
PAVING LEGEND

- NEW ASPHALT/UTILITY SAWCUT
- OVERLAY EXISTING ASPHALT
- NEW CONCRETE



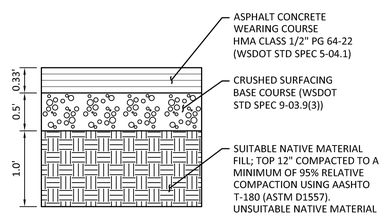
2 STREET IMPROVEMENT SECTION (78TH ST SW)

SCALE: 1" = 5'



3 STREET IMPROVEMENT SECTION (40TH AVE W)

SCALE: 1" = 5'



4 TYPICAL PAVEMENT SECTION

SCALE: 1" = 1'-0"

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GREG GUILLEN — STATE OF WASHINGTON — 35385 REGISTERED PROFESSIONAL ENGINEER

01/04/24

MARK	DATE	DESCRIPTION
1	01/04/24	PERMIT SUBMITTAL

DESIGN:	NAT
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CHECK:	JPU
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DATE:	01/04/24

HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

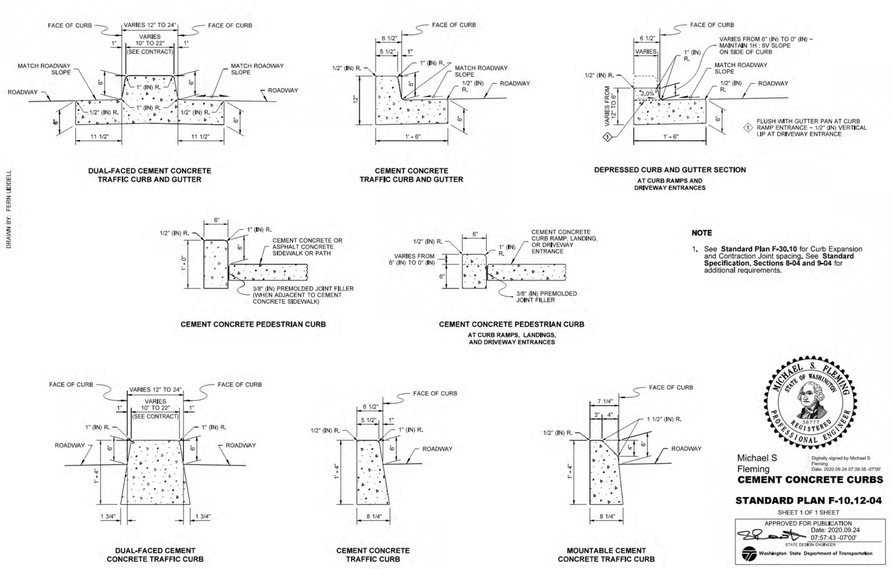
SITE IMPROVEMENT PLAN

FILE NAME:

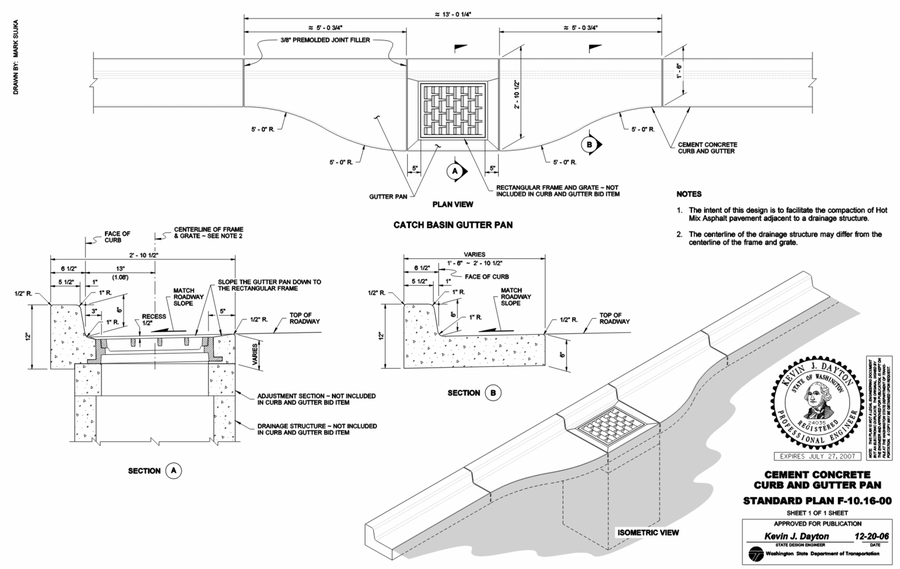
SHEET:

C5.1

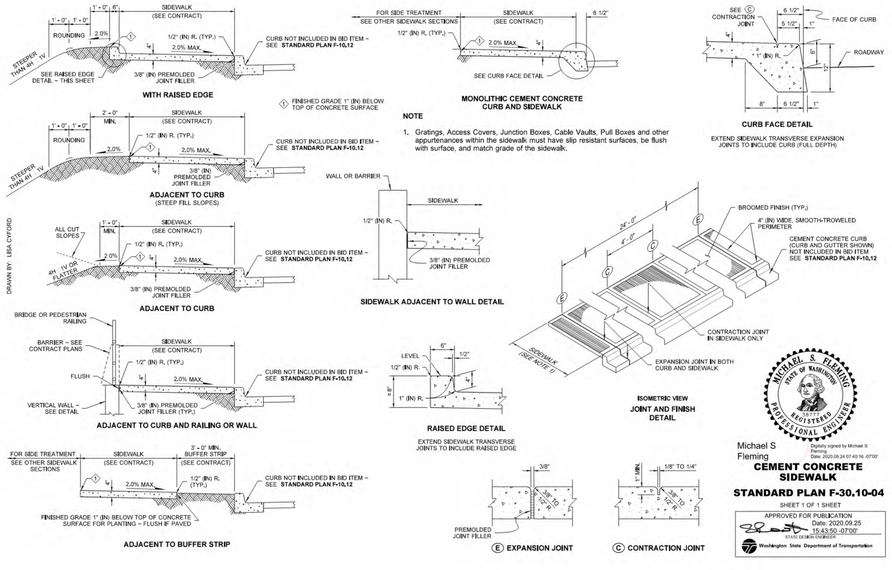
SW 1/4, SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.



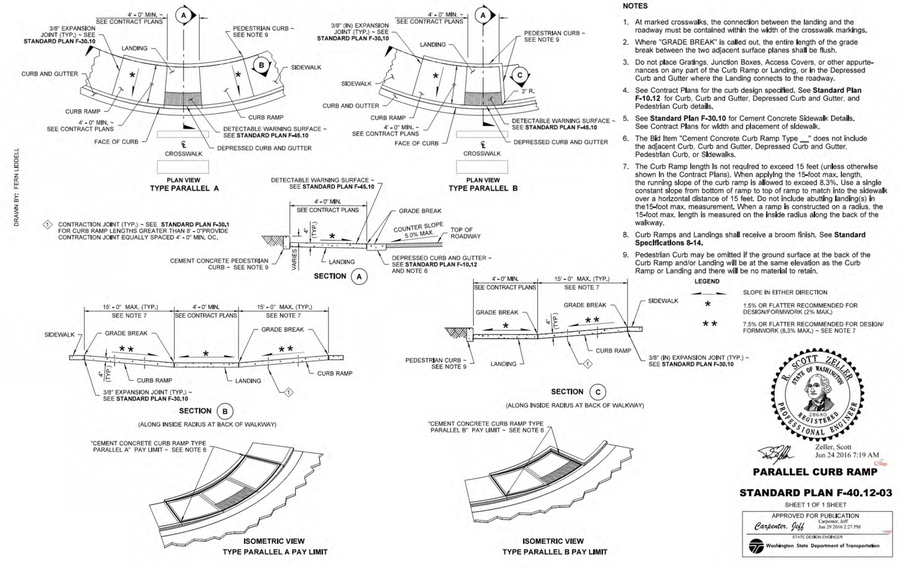
1 WASHINGTON STATE DEPARTMENT OF TRANSPORATION STANDARD DETAIL
SCALE: NTS



2 WASHINGTON STATE DEPARTMENT OF TRANSPORATION STANDARD DETAIL
SCALE: NTS



3 WASHINGTON STATE DEPARTMENT OF TRANSPORATION STANDARD DETAIL
SCALE: NTS



4 WASHINGTON STATE DEPARTMENT OF TRANSPORATION STANDARD DETAIL
SCALE: NTS

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GREG GUILLEN STATE OF WASHINGTON 35385 REGISTERED PROFESSIONAL ENGINEER
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DATE:	01/04/24

HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

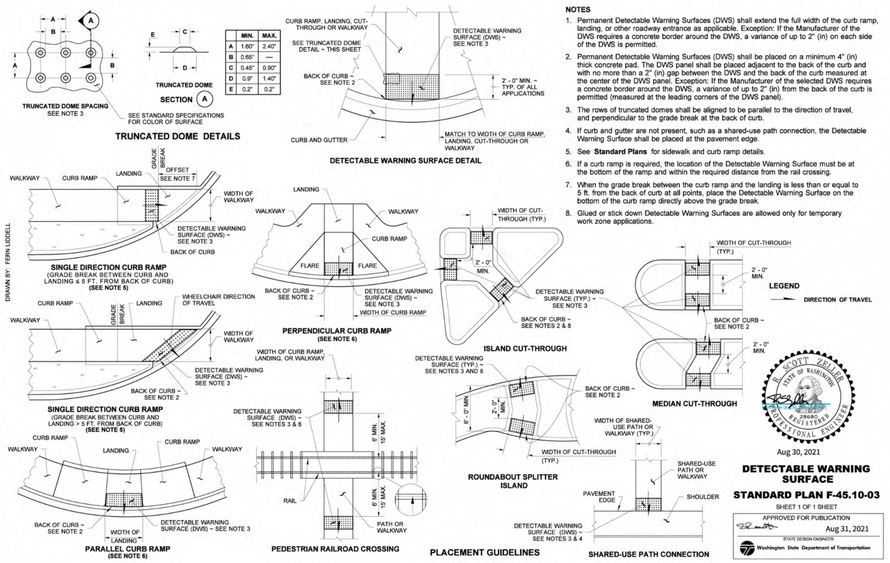
SITE IMPROVEMENT DETAILS

FILE NAME:

SHEET:

C5.2

SW 1/4, SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.



NOTES

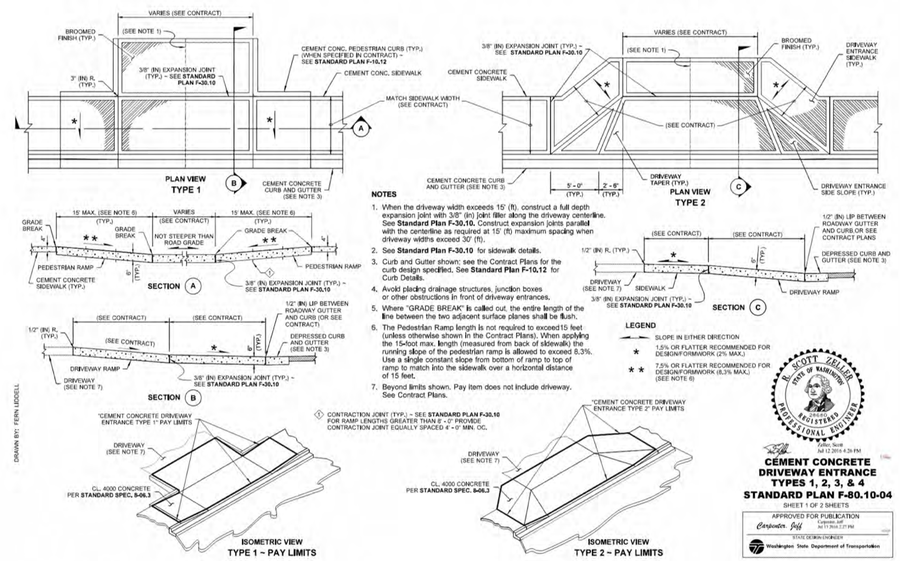
1. Permanent Detectable Warning Surfaces (DWS) shall extend the full width of the curb ramp, landing, or other roadway entrance as applicable. Exception: If the Manufacturer of the DWS requires a concrete border around the DWS, a variance of up to 2" (in) on each side of the DWS is permitted.
2. Permanent Detectable Warning Surfaces (DWS) shall be placed on a minimum 4" (in) thick concrete pad. The DWS panel shall be placed adjacent to the back of the curb and with no more than a 2" (in) gap between the DWS and the back of the curb measured at the center of the DWS panel. Exception: If the Manufacturer of the selected DWS requires a concrete border around the DWS, a variance of up to 2" (in) from the back of the curb is permitted (measured at the leading corners of the DWS panel).
3. The rows of truncated domes shall be aligned to be parallel to the direction of travel, and perpendicular to the grade break at the back of curb.
4. If curb and gutter are not present, such as a shared-use path connection, the Detectable Warning Surface shall be placed at the pavement edge.
5. See **Standard Plans** for sidewalk and curb ramp details.
6. If a curb ramp is required, the location of the Detectable Warning Surface must be at the bottom of the ramp and within the required distance from the rail crossing.
7. When the grade break between the curb ramp and the landing is less than or equal to 5 ft. from the back of curb at all points, place the Detectable Warning Surface on the bottom of the curb ramp directly above the grade break.
8. Glued or stick down Detectable Warning Surfaces are allowed only for temporary work zone applications.

DRAWN BY: FERN LEDELL

Aug 30, 2021

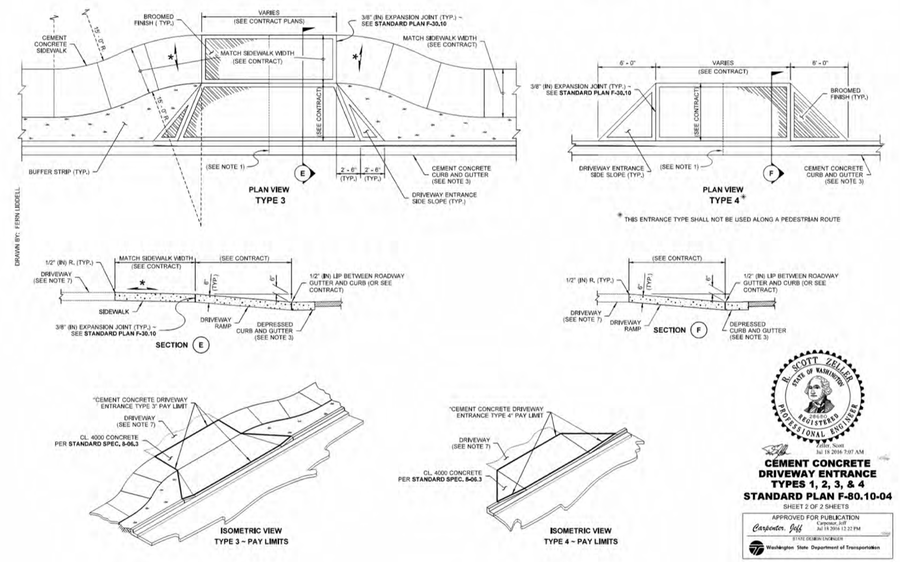
DETECTABLE WARNING SURFACE
STANDARD PLAN F-45.10-03
SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Aug 31, 2021
STATE DESIGN ENGINEER
Washington State Department of Transportation

1 WASHINGTON STATE DEPARTMENT OF TRANSPORATION STANDARD DETAIL
SCALE: NTS



Aug 12 2016 4:26 PM

CEMENT CONCRETE DRIVEWAY ENTRANCE TYPES 1, 2, 3, & 4
STANDARD PLAN F-80.10-04
SHEET 1 OF 2 SHEETS
APPROVED FOR PUBLICATION
Carpenter, Jeff
Jul 19 2016 2:27 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation



Jul 19 2016 7:07 AM

CEMENT CONCRETE DRIVEWAY ENTRANCE TYPES 1, 2, 3, & 4
STANDARD PLAN F-80.10-04
SHEET 2 OF 2 SHEETS
APPROVED FOR PUBLICATION
Carpenter, Jeff
Jul 19 2016 12:33 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation

2 WASHINGTON STATE DEPARTMENT OF TRANSPORATION STANDARD DETAIL
SCALE: NTS

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GREG GUILLEN — STATE OF WASHINGTON — 25385 — REGISTERED PROFESSIONAL ENGINEER

01/04/24

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	01/04/24	PERMIT SUBMITTAL

DESIGN:	NAT
DRAWN:	JCP
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JOB NO:	22272.20
DATE:	01/04/24

HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

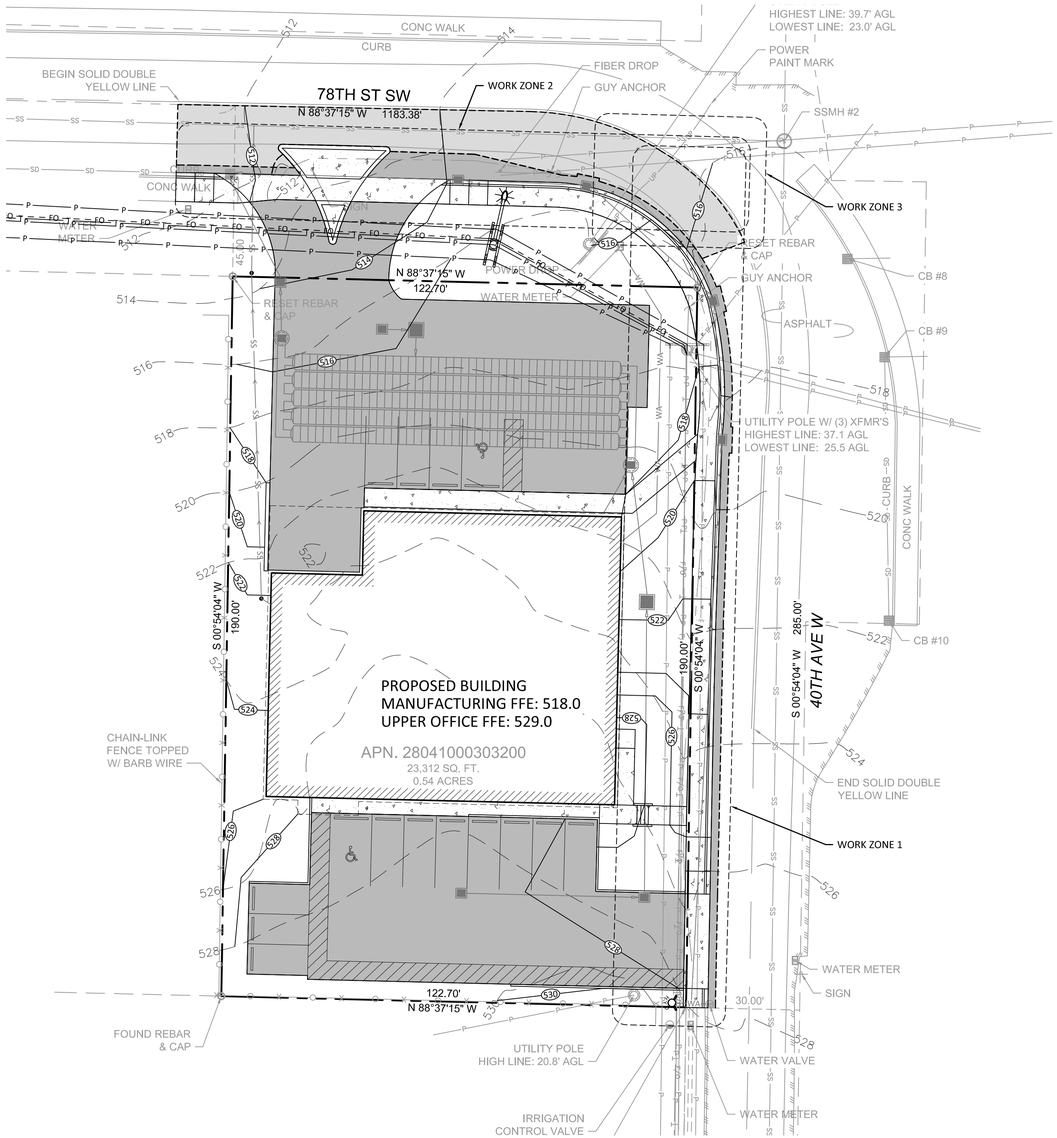
SITE IMPROVEMENT DETAILS

FILE NAME:

SHEET:

C5.3

SW 1/4, SECTION 10, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.



1 TRAFFIC CONTROL PLAN

SCALE: 1" = 20'

20 0 10 20 40

TRAFFIC CONTROL PLAN NOTES:

1. ALL TRAFFIC CONTROL DEVICES, SIGNING, STRIPING AND OTHER PAVEMENT DELINEATION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REFERENCE DETAIL C6.2/1 FOR TYPICAL TRAFFIC CONTROL SYMBOLS, SIGN SPACING, ETC.
3. WORK IS EXPECTED TO OCCUR DURING STANDARD WORKS HOURS, OR AS OTHERWISE DIRECTED BY THE CITY OF MUKILTEO.
4. WORK ZONES:

   WORK ZONE 1: CONSTRUCTION IN THE SOUTH BOUND LANE OF 40TH AVE W FOR UTILITY TRENCHING, PAVEMENT RESTORATION, AND S/W INSTALL WORK. TRAFFIC CONTROL SIMILAR TO MUTCD "LAND CLOSURE ON A TWO-LANE ROAD WITH LOW TRAFFIC VOLUMES". CLOSE LANE AS DEPICTED IN THE DETAIL (2/C6.2)

   WORK ZONE 2: CONSTRUCTION IN THE EAST BOUND LANE OF 78TH ST SW FOR UTILITY TRENCHING, PAVEMENT RESTORATION, AND S/W INSTALL WORK. TRAFFIC CONTROL SIMILAR TO MUTCD "LAND CLOSURE ON A TWO-LANE ROAD WITH LOW TRAFFIC VOLUMES". CLOSE LANE AS DEPICTED IN THE DETAIL (2/C6.2)

   WORK ZONE 3: WORK ON INTERSECTION CORNER PER TRAFFIC PER DETAIL 4/C6.2

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HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

TRAFFIC CONTROL PLAN

FILE NAME:

SHEET:

C6.1

SW 1/4 SECTION 19, TOWNSHIP 28 NORTH, RANGE 4 EAST, W.M.

Table 6H-2. Meaning of Symbols on Typical Application Diagrams

Arrow board	Shadow vehicle
Arrow board support or trailer (shown facing down)	Sign (shown facing left)
Changeable message sign or support trailer	Surveyor
Channelizing device	Temporary barrier
Crash cushion	Temporary barrier with warning light
Direction of temporary traffic detour	Traffic or pedestrian signal
Direction of traffic	Truck-mounted attenuator
Flagger	Type 3 barricade
High-level warning device (Flag tree)	Warning light
Longitudinal channelizing device	Work space
Luminaire	Work vehicle
Pavement markings that should be removed for a long-term project	

Table 6H-3. Meaning of Letter Codes on Typical Application Diagrams

Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)*	100 feet	100 feet	100 feet
Urban (high speed)*	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

* Speed category to be determined by highway agency

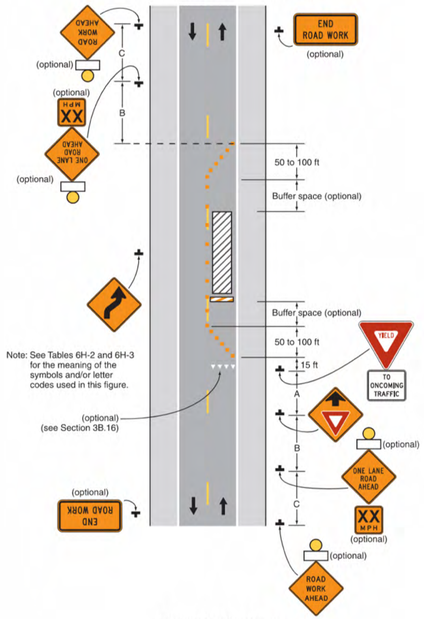
** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

Table 6H-4. Formulas for Determining Taper Length

Speed (S)	Taper Length (L) in feet
40 mph or less	$L = \frac{WS^2}{60}$
45 mph or more	$L = WS$

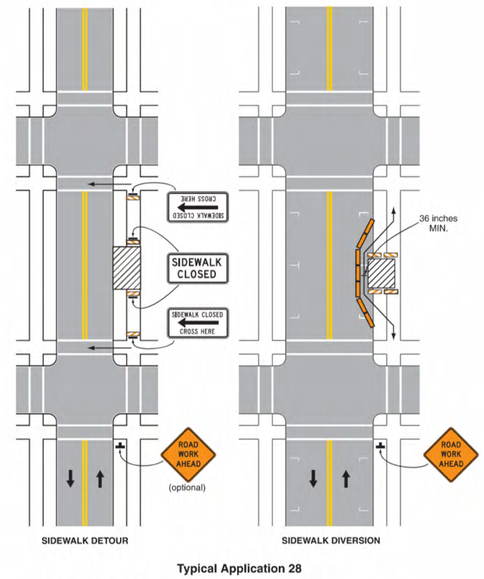
Where: L = taper length in feet
W = width of offset in feet
S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

Figure 6H-11. Lane Closure on a Two-Lane Road with Low Traffic Volumes (TA-11)



Typical Application 11

Figure 6H-28. Sidewalk Detour or Diversion (TA-28)



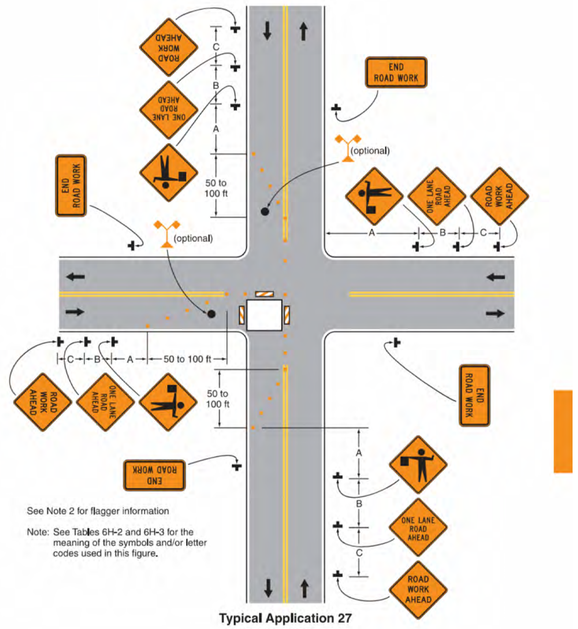
Typical Application 28

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

1 MUTCD STANDARD DETAIL
SCALE: NTS

2 MUTCD STANDARD DETAIL
SCALE: NTS

3 MUTCD STANDARD DETAIL
SCALE: NTS



Typical Application 27

4 WASHINGTON STATE DETPARTMENT OF TRANSPORATION STANDARD DETAIL
SCALE: NTS

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GREG GUILLEN — STATE OF WASHINGTON — 35385 — REGISTERED PROFESSIONAL ENGINEER

01/04/24

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HARBOUR POINTE INDUSTRIAL
78XX 40TH AVE W
MUKILTEO, WA 98275

TRAFFIC CONTROL DETAILS

FILE NAME:

SHEET:

C6.2