6/23/2020 5:24:26 PM D:_Revit\FerrucciJHAdd -DD - R20_aramirez.rvt

HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83/2011 BASED ON GPS OBSERVATION UTILIZING THE WASHINGTON STATE REFERENCE NETWORK (WSRN)

MEASURED NORTH 12°37'26" EAST BETWEEN TWO FOUND MONUMENTS ALONG 17TH PL. S.E. AT THE INTERSECTION WITH 30TH AND THE P.T. MONUMENT TO THE SOUTH

VERTICAL DATUM

BASED ON GPS OBSERVATION UTILIZING THE WSRN WITH

TEMPORARY BENCHMARK ELEVATION = 521.60 DESCRIPTION: SCRIBE #9 LOCATED WEST OF THE SITE ON PEDESTRIAN ACCESSWAY OFF OF THE CUL-DE-SACE AT THE SOUTHERLY END OF 17TH PL. S.E

ZONING INFORMATION

PF PUBLIC FACILITIES

CIVIL DRAWING INDEX

C3.11 26 OF 45 SITE SECTIONS CO.O2 O2 OF 45 PROJECT ABBREVIATIONS AND NOTES C3.12 27 OF 45 SITE SECTIONS CO.O3 O3 OF 45 CITY OF PUYALLUP STANDARD NOTES C3.13 28 OF 45 SITE SECTIONS C1.00 04 OF 45 OVERALL DEMOLITION AND TESC PLAN C3.14 29 OF 45 UNDERGROUND INFILTRATION DETAILS

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C4.01 32 OF 45 UTILITY PLAN C1.03 07 OF 45 DEMOLITION AND TESC PLAN C1.04 08 OF 45 DEMOLITION AND TESC NOTES AND DETAILS C4.02 33 OF 45 UTILITY PLAN

C2.00 09 OF 45 OVERALL SURFACING PLAN C4.03 34 OF 45 UTILITY DETAILS C2.01 10 OF 45 SURFACING PLAN C4.04 35 OF 45 UTILITY NOTES AND DETAILS

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C7.01 38 OF 45 WILDWOOD PARK DRIVE STREET C2.05 14 OF 45 SURFACING DETAILS LIGHT PLAN (WEST) C3.00 15 OF 45 OVERALL GRADING AND DRAINAGE PLAN C7.02 39 OF 45 WILDWOOD PARK DRIVE STREET

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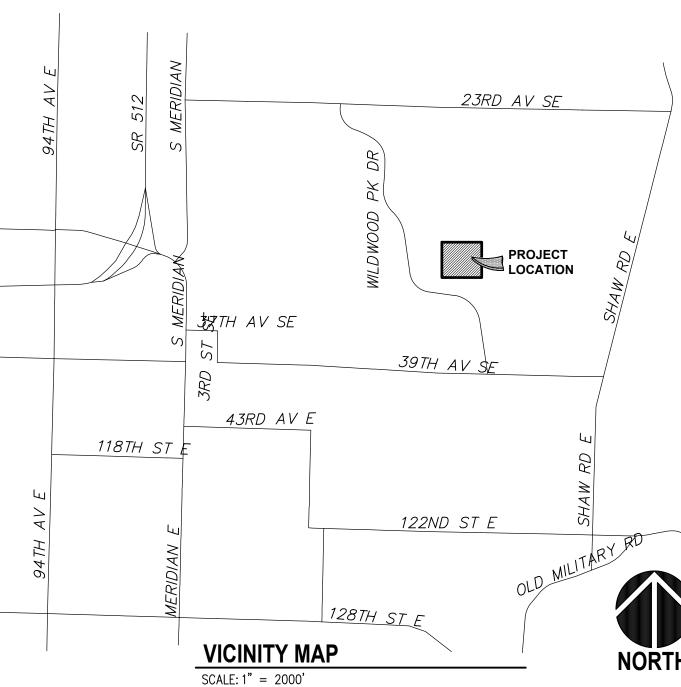
C7.05 42 OF 45 STREET LIGHT DETAILS C3.04 19 OF 45 GRADING AND DRAINAGE DETAILS C8.00 43 OF 45 OFFSITE WILDWOOD PARK DRIVE C3.05 20 OF 45 GRADING AND DRAINAGE DETAILS CHANNELIZATION PLAN

C3.07 22 OF 45 GRADING AND DRAINAGE DETAILS

C3.08 23 OF 45 GRADING AND DRAINAGE DETAILS C3.09 24 OF 45 GRADING ENLARGEMENTS

PROJECT LOCATION

3213 WILDWOOD PARK DR PUYALLUP, WA 98374







18711 | Project Mgr.: VMS | Proj. Drafter: Proj. Engineer:

APPROVED

CITY OF PUYALLUP

DEVELOPMENT SERVICES

5/13/2021

NOTE: THIS APPROVAL IS VOID

THE CITY WILL NOT BE

DETERMINED BY THE

MANAGER.

ENGINEERING SERVICES

LIGHT PLAN (EAST)

C8.01 44 OF 45 OFFSITE CHANNELIZATION NOTES AND DETAILS

C8.02 45 OF 45 OFFSITE CHANNELIZATION DETAILS

AFTER 180 DAYS FROM APPROVAL

RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

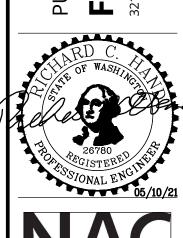
FIELD CONDITIONS MAY DICTATE

CHANGES TO THESE PLANS AS

DATE

REVISIONS

PERMIT RESUBMIT



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CHECKED RCH DATE 05/10/2021

OVERALL SITE PLAN

SHEET 01 OF 45

VERT

VPT

WISHA

WSDOT

VERTICAL

WALL DRAINAGE

WEATHERPROOF

WEIGHT WATER

TRANSFORMER

WEST

WITH

WATER

WELDED WIRE FABRIC

VERTICAL POINT OF CURVATURE

VERTICAL POINT OF TANGENCY

VERTICAL POINT OF INTERSECTION

WASHINGTON ADMINISTRATIVE CODE

WATER SERVICE OR WATER SURFACE

WASHINGTON INDUSTRIAL SAFETY AND HEALTH ADMINISTRATION

WASHINGTON STATE DEPARTMENT OF TRANSPORATION

VOLUME

LEGEND

EXISTING FEATURES-◆ FOUND MONUMENT AS NOTED ⊕ CALCULATED MONUMENT POSITION FOUND PROPERTY CORNER AS NOTED SET REBAR & CAP LS 44639 → △ SURVEY CONTROL POINT, AS NOTED SANITARY SEWER MANHOLE SANITARY SEWER CLEAN OUT STORM MANHOLE ☐ STORM CATCH BASIN < STORM CULVERT STORM CLEAN OUT ROOF DRAIN WATER VALVE ₩ATER METER FIRE HYDRANT

WATER VAULT

GAS VALVE

GAS METER

G GAS MANHOLE

-O- UTILITY POLE

GUY ANCHOR

- FIRE DEPARTMENT CONNECTION

WATER BLOW OFF

POST INDICATOR VALVE

JUNCTION BOX POWER VAULT POWER CABINET POWER MANHOLE UTILITY VAULT COLUMN ⊗ BOLLARD FF FINISH FLOOR ELEVATION SIGN MAILBOX MONITORING WELL TPN TAX PARCEL NUMBER

BOUNDARY LINE

CONCRETE SURFACE

GRAVEL SURFACE

RIPRAP SURFACE

LOT LINE

SECTION LINE ROAD CENTERLINE STORM DRAIN LINE ——— SD ——— SD ——— _____ SS _____ SANITARY SEWER LINE ____ w ____ w ___ BURIED WATER LINE ----- GAS ----- GAS BURIED GAS LINE —— FL —— FL BURIED FUEL LINE BURIED POWER LINE ——BP———BP——— _____ TEL _____ BURIED TELECOMMUNICATIONS LINE OVERHEAD POWER LINE CHAIN LINK FENCE ---- - ss --- ss --- RECORD SANITARY LINE RECORD WATER LINE RECORD GAS LINE $--- \top --- \top --- \top -$ RECORD TELECOMMUNICATIONS LINE ASPHALT SURFACE

PROPOSED FEATURES-CATCH BASIN PROTECTION ——[]——— SILT FENCE — — — — — STOCKPILE AREA — — — — — SAWCUT LINE LANDSCAPING ASPHALT PAVEMENT CONCRETE GRAVEL SURFACING ————— CAST-IN-PLACE CURB

———FD ——— FOOTING DRAIN PIPE — — — — GRADE BREAK QUARRY SPALL PAD

TYPE 1 CATCH BASIN TYPE 2 CATCH BASIN ROOF DRAIN CLEANOUT ──**₩**── WATER PIPE

FIRE SPRINKLER PIPE WATER METER FIRE DEPARTMENT CONNECTION

FIRE HYDRANT SANITARY SEWER MANHOLE WITH ACCESS LOCATION

SANITARY SEWER CLEANOUT GATE VALVE

THRUST BLOCK X X CHAINLINK FENCING

PROJECT SEQUENCING

- 1. HOLD A PRE-CONSTRUCTION MEETING WITH THE CITY AND OBTAIN REQUIRED PERMITS.
- 2. PROVIDE SUBMITTALS AND OBTAIN APPROVALS FROM SCHOOL DISTRICT AND ENGINEER.
- 3. COORDINATE WITH PROJECT LOGISTICS PLAN (SEE ARCHITECTURAL) REQUIREMENTS.
- 4. ESTABLISH CLEARING AND GRADING LIMITS.
- 5. CONSTRUCT EROSION CONTROL DEVICES AS SHOWN ON APPROVED EROSION CONTROL PLANS. NO UNCONTROLLED STORMWATER RUNOFF SHALL BE DISCHARGED OFFSITE DURING GRADING OPERATIONS.
- 6. CONSTRUCT PROTECTION FENCING FOR SIGNIFICANT TREES PROPOSED FOR RETENTION.
- 7. SCHEDULE EROSION CONTROL INSPECTION WITH THE CITY.
- 8. EXECUTE REQUIRED CLEARING, GRUBBING AND DEMOLITION WORK.
- 9. MAINTAIN EROSION CONTROL BMP'S. NO UNCONTROLLED STORMWATER RUNOFF SHALL BE DISCHARGED OFFSITE DURING GRADING OPERATIONS.
- 10. EXECUTE REQUIRED GRADING AND BUILDING PAD EARTHWORK.
- 12. CONSTRUCT BUILDING IMPROVEMENTS.

11. EXECUTE REQUIRED UTILITY WORK.

- 13. COMPLETE SURFACING RESTORATION.
- 14. COMPLETE PROJECT LANDSCAPING.
- 15. FOLLOWING FINAL STABILIZATION OF THE ENTIRE PROJECT SITE, AND UPON APPROVAL BY SCHOOL DISTRICT, ENGINEER, AND CITY INSPECTOR, REMOVE ALL TESC MEASURES.

- Denley CITY OF PUYALLUP DEVELOPMENT SERVICES
- 5/13/2021 DATE **NOTE**: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

APPROVED

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/

OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

RMIT SUBMIT шш 교 교

REVISIONS

Call 811 two business days roject No.:



Proj. Engineer:

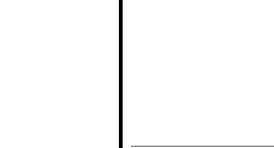
18711 | Project Mgr.:

VMS | Proj. Drafter:

PROJECT **ABBREVIATIONS** AND NOTES

SHEET 02 OF 45





6

ERRU

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NAC NO 121-19038

DATE 05/10/2021

DRAWN VMS

CHECKED RCH

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LENGTH

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LONGITUDE

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MEASURE DOWN

MATCH EXISTING GRADE

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MEMB

LONGIT LTG

VERTICAL CURVE GRADIENT VALUE

- 1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE APPROVED ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES AT (253-841-5568) TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF APPROVED PLANS AT THE MEETING.
- 2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT THE CONTRACTOR SHALL OBTAIN A PUNCH LIST' PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- 3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- 4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- 5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- 6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- 7. ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- 8. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES. ALL VISIBLE ITEMS SHALL BE THE ENGINEER'S RESPONSIBILITY.
- 9. THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
- 10. POWER, STREET LIGHT, CABLE, AND TELEPHONE LINES SHALL BE IN A TRENCH LOCATED WITHIN A 10-FOOT UTILITY EASEMENT ADJACENT TO PUBLIC RIGHT-OF-WAY. RIGHT-OF-WAY CROSSINGS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION FROM OTHER UTILITIES (SEWER, WATER, AND STORM) OF 5
- 11. ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON STATE LICENSED PROFESSIONAL CIVIL ENGINEER.
- 12. DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.
- 13. CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
- 14. A NPDES STORMWATER GENERAL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT THE DEPARTMENT OF ECOLOGY, SOUTHWEST REGION OFFICE AT (360)407-6300.
- 15. ANY DISTURBANCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS, OR SIGNIFICANT TREES DESIGNATED FOR PRESERVATION AND PROTECTION SHALL BE MITIGATED IN ACCORDANCE WITH A MITIGATION PLAN REVIEWED AND APPROVED BY THE CITY'S PLANNING DIVISION. PREPARATION AND IMPLEMENTATION OF THE MITIGATION PLAN SHALL BE AT THE DEVELOPER'S EXPENSE.

CITY OF PUYALLUP STORMWATER NOTES

- 1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- 2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A PUNCH LIST' PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- 3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- 4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- 5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- 6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- 7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- 8. DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
- 9. ALL STORM MANHOLES SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.01. FLOW CONTROL MANHOLE/OIL WATER SEPARATOR SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.06 AND
- 10. MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL 06.01.02.
- 11. CATCH BASINS TYPE I SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.02 AND 02.01.03 AND SHALL BE USED ONLY FOR DEPTHS LESS THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- 12. CATCH BASINS TYPE II SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.04 AND SHALL BE USED FOR DEPTHS GREATER THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- 13. CAST IRON OR DUCTILE IRON FRAME AND GRATE SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.05. GRATE SHALL BE MARKED WITH "DRAINS TO STREAM". SOLID CATCH BASIN LIDS (SQUARE UNLESS NOTED AS ROUND) SHALL CONFORM TO WSDOT STANDARD PLAN B-30.20-04 (OLYMPIC FOUNDRY NO. SM60 OR EQUAL). VANED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B-30.30-03 (OLYMPIC FOUNDRY NO. SM60V OR EQUAL).
- 14. STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE, DUCTILE IRON, OR DUAL WALLED POLYPROPYLENE
 - a. THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING SERVICES STAFF PRIOR TO INSTALLATION.
 - b. PVC PIPE SHALL BE PER ASTM D3034, SDR 35 FOR PIPE SIZE 15—INCH AND SMALLER AND F679 FOR PIPE SIZES 18 TO 27 INCH. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.
 - c. CONCRETE PIPE SHALL CONFORM TO THE WSDOT STANDARD SPECIFICATIONS FOR CONCRETE
 - UNDERDRAIN PIPE. MINIMUM COVER ON CONCRETE PIPE SHALL NOT LESS THAN 3.0 FEET.

 d. DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON
 - e. POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(1). 12-INCH THROUGH 30-INCH PIPE SHALL MEET OR EXCEED ASTM F2736 AND AASHTO M330, TYPE S, OR TYPE D. 36-INCH THROUGH 60-INCH PIPE SHALL MEET OR EXCEED ASTM F2881 AND AASHTO M330, TYPE S, OR TYPE D. TESTING SHALL BE PER ASTM F1417. MINIMUM COVER OVER POLYPROPYLENE PIPE SHALL BE 3
- 15. TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TO CITY STANDARD DETAIL NO.

DUCTILE IRON PIPE SHALL BE 1.0 FOOT.

- 16. STORM PIPE SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- 17. ALL STORM DRAIN MAINS SHALL BE TESTED AND INSPECTED FOR ACCEPTANCE AS OUTLINED IN SECTION 406 OF THE CITY OF PUYALLUP SANITARY SEWER SYSTEM STANDARDS.
- 18. ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES, AND PROTECTIVE MEASURES FOR CRITICAL AREAS AND SIGNIFICANT TREES SHALL BE INSTALLED PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES.

CITY OF PUYALLUP GRADING. EROSION AND SEDIMENTATION NOTES

- 1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- 2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- 3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HERINAFTER REFERRED TO AS THE "CITY STANDARDS").
- 4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- 5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY ENGINEER PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- 6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS HOURS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- 7. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.
- 8. ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ONSITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITTEE.
- 9. THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITTEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
- 10. APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.
- 11. ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSIVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITTEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.
- 12. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.
- 13. NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

APPROVED

CITY OF PUYALLUP
DEVELOPMENT SERVICES

5/13/2021

NOTE: THIS APPROVAL IS VOID
AFTER 180 DAYS FROM APPROVAL

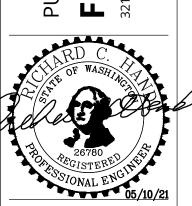
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

REVISIONS

PERMIT RESUBMITTAI

DL DISTRICT PROJECT NO. 30-03-19
JUNIOR HIGH ADDITIC
PUYALLUP, WA 98374



A R C H I T E C T U R E
nacarchitecture.com

2021 1ST AVENUE
SEATTLE WA 98121

P:206.441.4522

NAC NO 121-19038

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DATE 05/10/2021

CITY OF PUYALLUP STANDARD NOTES

SHEET 03 OF 45

C0.03



oject No.:

Proj. Engineer:

18711 | Project Mgr.:

VMS | Proj. Drafter:

APPROVED

CITY OF PUYALLUP DEVELOPMENT SERVICES

DATE___ 5/13/2021

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

LEGEND

SILT FENCE PER DETAIL 04/C1.04

/////
DEMOLITION

ASPHALT REMOVAL

CONCRETE REMOVAL

CATCH BASIN PROTECTION PER DETAIL 01/C1.04

LIMITS OF WORK & CLEARING LIMITS

TP TREE PROTECTION FENCE PER DETAIL 05/C1.04

GENERAL NOTES

- 1. MAINTAIN EMERGENCY VEHICLE ACCESS AT ALL TIMES.
- 2. COMPLY WITH EROSION AND SEDIMENTATION NOTES ON SHEET CO.O3.
- 3. COMPLY WITH NOTE REQUIREMENTS ON SHEET C1.04.
- 4. PROVIDE CATCH BASIN PROTECTION PER DETAIL 01/C1.04 FOR ALL PROPOSED CATCH BASINS UPON INSTALLATION.
- 5. CONSTRUCTION ACCESS SHALL BE FROM EXISTING ASPHALT SURFACES. IF ADDITIONAL MEASURES ARE NEEDED TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC ROADS, CONTRACTOR SHALL INSTALL A CONSTRUCTION ENTRANCE PER DETAIL 03/C1.04.
- 6. IF AT ANY TIME DURING THE CONSTRUCTION IT IS DETERMINED BY THE CITY THAT MUD AND DEBRIS ARE BEING TRACKED ONTO PUBLIC STREETS WITH INSUFFICIENT CLEANUP, ALL WORK SHALL CEASE ON THE PROJECT UNTIL THIS CONDITION IS CORRECTED. THE CONTRACTOR SHALL IMMEDIATELY TAKE ALL STEPS NECESSARY TO PREVENT FUTURE TRACKING OF MUD AND DEBRIS INTO THE PUBLIC ROW, WHICH MAY INCLUDE THE INSTALLATION OF A WHEEL WASH FACILITY ON—SITE.
- 7. CONTRACTOR SHALL DESIGNATE A WASHINGTON DEPARTMENT OF ECOLOGY CERTIFIED EROSION AND SEDIMENT CONTROL LEADPERSON, AND SHALL COMPLY WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT.
- 8. SEDIMENT-LADEN RUNOFF SHALL NOT BE ALLOWED TO DISCHARGE BEYOND THE CONSTRUCTION LIMITS IN ACCORDANCE WITH THE PROJECT'S NPDES GENERAL STORMWATER PERMIT.
- 9. COMPLY WITH PROJECT SEQUENCE REQUIREMENTS ON SHEET CO.O2.
- 10. SEE LANDSCAPE PLANS FOR TREE RETENTION AND REMOVAL REQUIREMENTS. SEE DETAIL 05/C1.04 FOR TREE PROTECTION FENCING.
- 11. THE CONTRACTOR SHALL COORDINATE THE APPLICABLE WORK WITH PROJECT PHASING AND SEQUENCING REQUIREMENTS.



HORIZONTAL SCALE: 1"=50'
0 50 100

Call 811 two business days before you dig



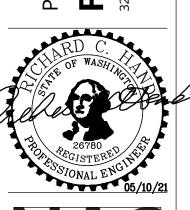
Project No.: 18711 Project Mgr.: F
Proj. Engineer: VMS Proj. Drafter: \

REVISIONS

PERMIT RESUBMITT

UYALLUP SCHOOL DISTRICT PROJECT NO. 30-03-19

ERRUCCI JUNIOR HIGH ADDITION



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NAC NO 121-19038

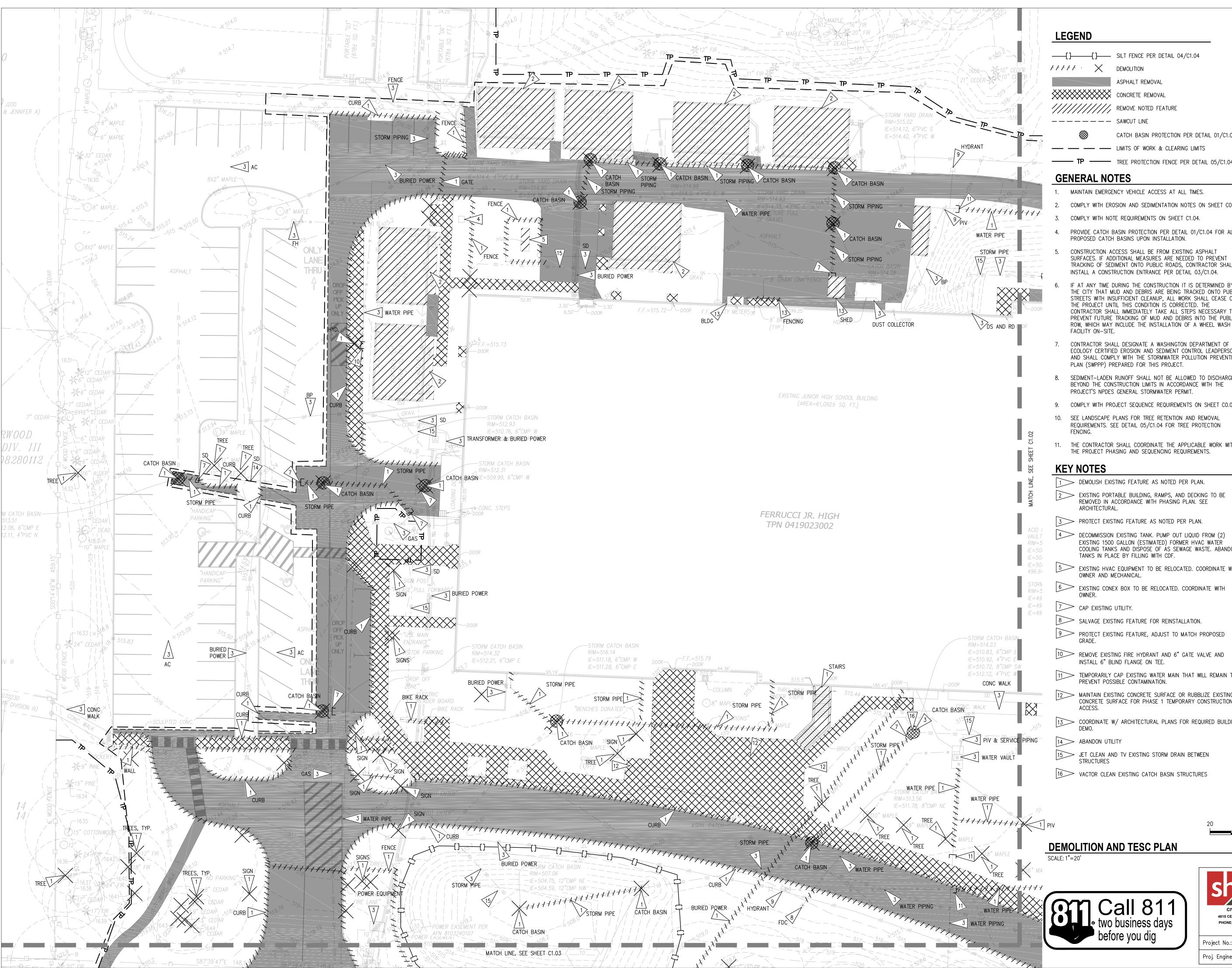
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DATE 05/10/2021

OVERALL DEMOLITION AND TESC PLAN

SHEET 04 OF 45

C1.00



APPROVED

Berkey CITY OF PUYALLUP

DEVELOPMENT SERVICES DATE 5/13/2021

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL **REVISIONS**

PERMIT RESUBMIT

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS CATCH BASIN PROTECTION PER DETAIL 01/C1.04 DETERMINED BY THE ENGINEERING SERVICES

GENERAL NOTES

1. MAINTAIN EMERGENCY VEHICLE ACCESS AT ALL TIMES.

ASPHALT REMOVAL

- COMPLY WITH EROSION AND SEDIMENTATION NOTES ON SHEET CO.O3.
- COMPLY WITH NOTE REQUIREMENTS ON SHEET C1.04.
- PROVIDE CATCH BASIN PROTECTION PER DETAIL 01/C1.04 FOR ALL PROPOSED CATCH BASINS UPON INSTALLATION.
- CONSTRUCTION ACCESS SHALL BE FROM EXISTING ASPHALT SURFACES. IF ADDITIONAL MEASURES ARE NEEDED TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC ROADS, CONTRACTOR SHALL INSTALL A CONSTRUCTION ENTRANCE PER DETAIL 03/C1.04.
- IF AT ANY TIME DURING THE CONSTRUCTION IT IS DETERMINED BY THE CITY THAT MUD AND DEBRIS ARE BEING TRACKED ONTO PUBLIC STREETS WITH INSUFFICIENT CLEANUP, ALL WORK SHALL CEASE ON THE PROJECT UNTIL THIS CONDITION IS CORRECTED. THE CONTRACTOR SHALL IMMEDIATELY TAKE ALL STEPS NECESSARY TO PREVENT FUTURE TRACKING OF MUD AND DEBRIS INTO THE PUBLIC ROW, WHICH MAY INCLUDE THE INSTALLATION OF A WHEEL WASH
- CONTRACTOR SHALL DESIGNATE A WASHINGTON DEPARTMENT OF ECOLOGY CERTIFIED EROSION AND SEDIMENT CONTROL LEADPERSON, AND SHALL COMPLY WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT.
- SEDIMENT-LADEN RUNOFF SHALL NOT BE ALLOWED TO DISCHARGE BEYOND THE CONSTRUCTION LIMITS IN ACCORDANCE WITH THE PROJECT'S NPDES GENERAL STORMWATER PERMIT.
- 9. COMPLY WITH PROJECT SEQUENCE REQUIREMENTS ON SHEET CO.O2.
- 10. SEE LANDSCAPE PLANS FOR TREE RETENTION AND REMOVAL REQUIREMENTS. SEE DETAIL 05/C1.04 FOR TREE PROTECTION
- 11. THE CONTRACTOR SHALL COORDINATE THE APPLICABLE WORK WITH THE PROJECT PHASING AND SEQUENCING REQUIREMENTS.

KEY NOTES

- 1 DEMOLISH EXISTING FEATURE AS NOTED PER PLAN.
- 2 EXISTING PORTABLE BUILDING, RAMPS, AND DECKING TO BE REMOVED IN ACCORDANCE WITH PHASING PLAN. SEE
- 3 PROTECT EXISTING FEATURE AS NOTED PER PLAN.
- 4 DECOMMISSION EXISTING TANK. PUMP OUT LIQUID FROM (2) EXISTING 1500 GALLON (ESTIMATED) FORMER HVAC WATER COOLING TANKS AND DISPOSE OF AS SEWAGE WASTE. ABANDON TANKS IN PLACE BY FILLING WITH CDF.
- 5 EXISTING HVAC EQUIPMENT TO BE RELOCATED. COORDINATE WITH
- 6 EXISTING CONEX BOX TO BE RELOCATED. COORDINATE WITH
- 7 CAP EXISTING UTILITY.
- $|8\rangle$ Salvage existing feature for reinstallation.
- PROTECT EXISTING FEATURE, ADJUST TO MATCH PROPOSED
- 10 REMOVE EXISTING FIRE HYDRANT AND 6" GATE VALVE AND INSTALL 6" BLIND FLANGE ON TEE.
- 11 > TEMPORARILY CAP EXISTING WATER MAIN THAT WILL REMAIN TO PREVENT POSSIBLE CONTAMINATION.
- 12 MAINTAIN EXISTING CONCRETE SURFACE OR RUBBLIZE EXISTING CONCRETE SURFACE FOR PHASE 1 TEMPORARY CONSTRUCTION
- COORDINATE W/ ARCHITECTURAL PLANS FOR REQUIRED BUILDING
- 15 JET CLEAN AND TV EXISTING STORM DRAIN BETWEEN
- 16 VACTOR CLEAN EXISTING CATCH BASIN STRUCTURES



HORIZONTAL SCALE: 1"=20'

DEMOLITION AND TESC PLAN





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SHEET 05 OF 45

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——[]——[]—— SILT FENCE PER DETAIL 04/C1.04 DEMOLITION

ASPHALT REMOVAL CONCRETE REMOVAL

//////// REMOVE NOTED FEATURE

---- SAWCUT LINE CATCH BASIN PROTECTION PER DETAIL 01/C1.0

TREE PROTECTION FENCE PER DETAIL 05/C1.04 ENGINEERING SERVICES

STRIP EXISTING SOD AND PROVIDE PHASE 1 CONSTRUCTION ACCESS/STAGING LAY DOWN PAD PER DETAIL 03/C1.04 AND 09/C3.04

- 1. MAINTAIN EMERGENCY VEHICLE ACCESS AT ALL TIME
- 2. COMPLY WITH EROSION AND SEDIMENTATION NOTES ON SHEET CO.O3.
- 3. COMPLY WITH NOTE REQUIREMENTS ON SHEET C1.04.
- 4. PROVIDE CATCH BASIN PROTECTION PER DETAIL 01/C1.04 FOR ALL PROPOSED CATCH BASINS UPON INSTALLATION.
- 5. CONSTRUCTION ACCESS SHALL BE FROM EXISTING ASPHALT SURFACES. IF ADDITIONAL MEASURES ARE NEEDED TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC ROADS, CONTRACTOR SHALL INSTALL A CONSTRUCTION ENTRANCE PER DETAIL 03/C1.04.
- 6. IF AT ANY TIME DURING THE CONSTRUCTION IT IS DETERMINED BY THE CITY THAT MUD AND DEBRIS ARE BEING TRACKED ONTO PUBLIC STREETS WITH INSUFFICIENT CLEANUP, ALL WORK SHALL CEASE ON THE PROJECT UNTIL THIS CONDITION IS CORRECTED. THE CONTRACTOR SHALL IMMEDIATELY TAKE ALL STEPS NECESSARY TO PREVENT FUTURE TRACKING OF MUD AND DEBRIS INTO THE PUBLIC ROW, WHICH MAY INCLUDE THE INSTALLATION OF A WHEEL WASH FACILITY ON-SITE.
- 7. CONTRACTOR SHALL DESIGNATE A WASHINGTON DEPARTMENT OF ECOLOGY CERTIFIED EROSION AND SEDIMENT CONTROL LEADPERSON, AND SHALL COMPLY WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT.
- 8. SEDIMENT-LADEN RUNOFF SHALL NOT BE ALLOWED TO DISCHARGE BEYOND THE CONSTRUCTION LIMITS IN ACCORDANCE WITH THE PROJECT'S NPDES GENERAL STORMWATER PERMIT.
- 9. COMPLY WITH PROJECT SEQUENCE REQUIREMENTS ON SHEET CO.02.
- 10. SEE LANDSCAPE PLANS FOR TREE RETENTION AND REMOVAL REQUIREMENTS. SEE DETAIL 05/C1.04 FOR TREE PROTECTION FENCING.
- 11. THE CONTRACTOR SHALL COORDINATE THE APPLICABLE WORK WITH THE PROJECT PHASING AND SEQUENCING REQUIREMENTS.

KEY NOTES

- 1 DEMOLISH EXISTING FEATURE AS NOTED PER PLAN.
- 2 EXISTING PORTABLE, RAMPS, AND DECKING TO BE REMOVED IN ACCORDANCE WITH PHASING PLAN. SEE ARCHITECTURAL.
- 3 PROTECT EXISTING FEATURE AS NOTED PER PLAN.
- 4 CAP EXISTING UTILITY.
- 5 RELOCATE BLEACHERS PER LANDSCAPE PLANS.
- 6 COORDINATE DEMOLITION OF BUILDING SERVICE WITH MECHANICAL.
- 7 DEMOLISH EXISTING VAULT AND SALVAGE EXISTING ACID NEUTRALIZATION TANK FOR REINSTALLATION IN NEW VAULT. SEE C4.02 FOR LOCATION.
- 8 PROTECT EXISTING FEATURE, ADJUST TO MATCH PROPOSED
- 9 PROVIDE FILL TO SUBGRADE PER DETAIL 09/C3.04
- 10 JET CLEAN AND TV EXISTING STORM DRAIN BETWEEN EXISTING STORM STRUCTURES
- 11 VACTOR CLEAN EX CATCH BASIN STRUCTURES
- 12 ESTIMATED LOCATION OF EXISTING CATCH BASIN PER RECORD DRAWINGS. LOCATE AND FIND.



HORIZONTAL SCALE: 1"=20'

DEMOLITION AND TESC PLAN





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DEMOLITION AND

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NAC NO 121-19038

DATE 05/10/2021

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CITY OF PUYALLUP DEVELOPMENT SERVICES PERMIT RESUBMIT **NOTE**: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL RESPONSIBLE FOR ERRORS AND/

DATE 5/13/2021

THE CITY WILL NOT BE

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TELD CONDITIONS MAY DICTATE

CHANGES TO THESE PLANS AS

NORTH

HORIZONTAL SCALE: 1"=20'
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DEMOLITION AND TESC PLAN

SHEET 07 OF 45

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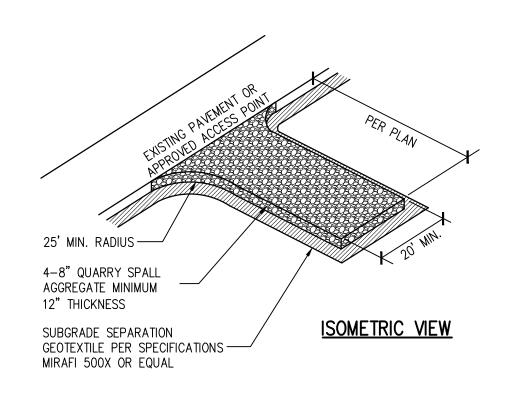
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CONSTRUCTION ENTRANCE
SCALE: N.T.S.

STOCKPILE NOTES

- 1. STOCKPILES SHALL BE STABILIZED (WITH PLASTIC COVERING OR OTHER APPROVED DEVICE) DAILY BETWEEN OCTOBER 1 AND APRIL 30.
- 2. IN ANY SEASON, SEDIMENT LEACHING FROM STOCKPILES MUST BE PREVENTED.
- 3. TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVELY WET OR WHEN CONDITIONS EXIST THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING.
- 4. PREVIOUSLY ESTABLISHED GRADES ON THE AREAS TO BE TOPSOILED SHALL BE MAINTAINED ACCORDING TO THE APPROVED PLAN.

POLLUTION PREVENTION NOTES

- 1. EQUIPMENT LUBRICATION AND FUELING OPERATIONS SHALL OCCUR AT EXISTING PAVED AREAS.
- 2. PREVENT OILS AND FUELS FROM ENTERING THE STORM DRAINAGE SYSTEM WITH PROPER SPILL PREVENTION, CONTROL AND COUNTERMEASURE POLICIES.
- 3. ACCESS TO CONSTRUCTION IS VIA ADJACENT EXISTING PAVED STREETS. SWEEP DIRT FROM PAVING DAILY OR AS NEEDED. THE INTENT IS TO PREVENT DIRT AND DEBRIS FROM VEHICLES AND EQUIPMENT FROM BEING DEPOSITED ON CITY STREET PAVEMENT. PROTECT EXISTING PERMEABLE PAVEMENTS. USE A REGENERATIVE VACUUM SWEEPER FOR PERMEABLE PAVEMENTS.
- 4. THE PROJECT SHALL COMPLY WITH 2017 DOE CONSTRUCTION STORMWATER, GENERAL PERMIT REQUIREMENTS AND PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS.

CLEAR PLASTIC COVERING STAKE AND SAND BAG (TYP.) 10' TYP. 11' OVERLAP – ALL SEAMS TO BE TAPED OR WEIGHTED DOWN WITH SAND BAGS AT 10' CENTERS ALONG THE SEAM SECTION A—A OVERLAP DETAIL

2"x2"x14 GA. WELDED — STAPLE OR WIRE RINGS-WIRE FABRIC OR EQUAL (TYPICAL) 2"x4" DOUG. FIR -AT 4' O.C. FILTER FABRIC MATERIAL MIRAFI 100x OR EQUAL 6"x6" TRENCH — FILTER FABRIC— MATERIAL 2"x2"x14 **ELEVATION** GA. W.W.F. 2"x4" DOUG. FIR OR EQUAL — 1. PLACE 1' OF 3/4" - 1-1/2" WASHED ROCK OR PEA-GRAVEL ON BOTH SIDES OF FENCE TO CREATE A BEVEL SHAPE. 6"x6" TRENCH-FABRIC SHALL COVER BOTTOM OF 6"x6" TRENCH AND EXTEND BEYOND THE LIMITS OF THE GRAVEL IN ORDER TO MAINTAIN AN EXCESS OVERLAP OF 2" MINIMUM AS SHOWN IN TYPICAL CROSS-SECTION.

EROSION CONTROL MAINTENANCE SCHEDULE

SILT FENCE DETAIL TYPICAL CROSS-SECTION

PLASTIC COVERING DETAIL

- EROSION CONTROL FACILITIES SHALL BE INSPECTED AFTER EACH HEAVY RAINFALL EVENT AND REPAIRED OR REVISED FOR IMPROVED EFFECTIVENESS AS NECESSARY.
- 2. ALL VEHICLES AND EQUIPMENT TO BE ROUTED OVER CONSTRUCTION ENTRANCES PRIOR TO LEAVING THE
- 3. DEBRIS TRACKED ONTO THE PAVEMENT SURFACES SHALL BE SWEPT UP PRIOR TO THE END OF EACH WORKING DAY. CARE MUST BE TAKEN TO KEEP DIRT OUT OF DRAINAGE STRUCTURES AND PUBLIC ROW.

INSPECTION, MONITORING, DOCUMENTATION AND REPORTING SCHEDULE

- 1. EROSION AND SEDIMENT CONTROL (ESC) FACILITIES SHALL NOT BE ALLOWED TO FALL INTO DISREPAIR. THE CONTRACTOR'S TESC LEAD SHALL INSPECT ALL PROJECT FACILITIES IN ACCORDANCE W/DOE NPDES CONSTRUCTION STORMWATER POLLUTION REQUIREMENTS.
- THE ESC LEAD SHALL IMPLEMENT THE TESC PLAN. IMPLEMENTATION SHALL INCLUDE BUT IS NOT LIMITED TO: INSTALLING, MAINTAINING, INSPECTING MONITORING, DOCUMENTING, REPORTING AND REPAIRING ALL TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES INCLUDED IN THE PLAN. SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY FIVE WORKING DAYS, EACH WORKING DAY DURING A RUNOFF PRODUCING RAIN EVENT, AND WITHIN 24 HOURS AFTER A RUNOFF PRODUCING RAIN EVENT. ALL PROJECT CONSTRUCTION STORMWATER DISCHARGES SHALL COMPLY W/DOE DISCHARGE REQUIREMENTS.

PLASTIC COVERING NOTES

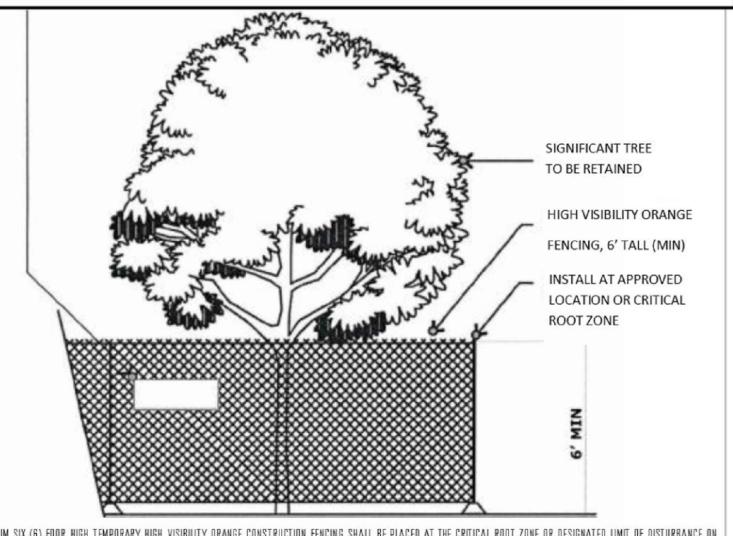
- PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 6 MILS AND SHALL MEET THE REQUIREMENTS OF THE STATE STANDARD SPECIFICATIONS SECTION 9-14 6(3).
- COVERING SHALL BE INSTALLED AND MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10-FOOT GRID SPACING IN ALL DIRECTIONS. ALL SEAMS SHALL BE TAPED OR WEIGHTED DOWN FULL LENGTH AND THERE SHALL BE AT LEAST A 12-INCH OVERLAP OF ALL SEAMS.
- 3. CLEAR PLASTIC COVERING SHALL BE INSTALLED IMMEDIATELY ON AREAS SEEDED BETWEEN OCTOBER 1 AND APRIL 30 AND REMAIN UNTIL VEGETATION IS FIRMLY ESTABLISHED.
- 4. WHEN THE COVERING IS USED ON UN-SEEDED SLOPES, IT SHALL BE KEPT IN PLACE UNTIL THE NEXT SEEDING PERIOD.
- 5. PLASTIC COVERING SHEETS SHALL BE BURIED TWO FEET AT THE TOP OF SLOPES IN ORDER TO PREVENT SURFACE WATER FLOW BENEATH SHEETS.
- 6. PROPER MAINTENANCE INCLUDES REGULAR CHECKS FOR RIPS AND DISLODGED

SILT FENCE NOTES

- 1. FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND 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 SECURELY FASTENED AT BOTH ENDS TO POSTS.
- 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. THIS TRENCH SHALL BE BACKFILLED WITH WASHED GRAVEL.
- 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 24 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 24 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 CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISION OF ABOVE NOTES APPLYING.
- 7. FILTER FABRIC FENCES SHALL NOT BE REMOVED BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- 8. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- 9. SILT FENCES WILL BE INSTALLED PARALLEL TO ANY SLOPE CONTOURS.

TREE PROTECTION ZONE (TPZ)

NO ENTRY. NO GRADE CHANGES, STORAGE/STOCKPILING OF MATERIALS OR EQUIPMENT, PLACEMENT OF FILL OR TOP SOIL, TRENCHING OR VEHICULAR/FOOT TRAFFIC PERMITTED WITHIN THE TPZ. THIS TREE BARRIER SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM PUYALLUP PLANNING DEPARMENT—<u>SUBJECT TO FINES AND ENFORCEMENT ACTION BY THE CITY</u>—TO REPORT
VIOLATIONS OR FOR MORE INFORMATION—CALL (253) 864.4165



- MINIMUM SIX (6) FOOR HIGH TEMPORARY HIGH VISIBILITY ORANGE CONSTRUCTION FENCING SHALL BE PLACED AT THE CRITICAL ROOT ZONE OR DESIGNATED LIMIT OF DISTURBANCE ON
 APPROVED FINAL LANDSCAPE PLAN SET; FENCING SHALL BE INSTALLED USING POSTS DRIVEN INTO GROUND—PIER BLOCKS SHALL NOT BE USED. AVOID POSTS DRIVEN INTO ROOTS LARGER
 THAN I" DIAMETER. FENCING SHALL BE INSTALLED PRIOR TO WORK COMMENCING ON SITE AND REMAIN IN PLACE THROUGHOUT ALL PHASES ON CONSTRUCTION—CALL THE CITY'S PLANNING
 DIVISION WITH REQUESTS TO MODIFY THE LOCATION OF THE TREE PROTECTION FENCING—(253) 864-4165
- TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER ONE (I) INCH DIAMETER DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING AND COVERED WITH SOIL AS SOON AS POSSIBLE. OTHER PRE-TREATMENT MEASURES MAY BE REQUIRED TO PROTECT ROOT SYSTEM—SEE APPROVED TREE PROTECTION OR FINAL LANDSCAPE PLAN FOR FURTHER DETAILS.
- NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, PLACEMENT OF TOP SOIL OR FILL MATERIAL, STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMITS OF THE ESTABLISHED FENCING. FENCING SHALL NOT BE MOVED OR REMOVED UNLESS APPROVED BY THE CITY PLANNING DIVISION, WORK WHITIN PROTECTION FENCE SHALL BE DONE MANUALLY UNDER THE SUPERVISION OF THE ON-SITE ARBORIST WITH PRIOR WRITTEN APPROVAL BY THE CITY PLANNING DIVISION.
- THE ABOVE REFERENCED TPZ SIGNS SHALL BE PLACED EVERY 15 FEET ALONG THE FENCING AND SHALL REMAIN IN PLACETHROUGHOUT ALL PHASES OF CONSTRUCTION.



TREE PROTECTION FENCING

SCALF: N.T.S





Project No.:18711Project Mgr.:RCHProj. Engineer:VMSProj. Drafter:VMS

REVISIONS

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CITY OF PUYALLUP
DEVELOPMENT SERVICES

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ENGINEERING SERVICES

LUP SCHOOL DISTRICT PROJECT NO. 30-03-19
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DEMOLITION AND TESC NOTES AND

SHEET 08 OF 45

DETAILS

C1.04

APPROVED

Denley CITY OF PUYALLUP DEVELOPMENT SERVICES

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LEGEND

PROPOSED FEATURES-

LIGHT DUTY ASPHALT PAVEMENT PER DETAIL 01/C2.04 HEAVY DUTY ASPHALT PAVEMENT PER DETAIL 02/C2.04 CONCRETE WALK, SEE LANDSCAPE PLANS PERVIOUS CONCRETE SIDEWALK PER DETAIL 04/C2.05

SEE LANDSCAPE PLANS FOR SURFACING REQUIREMENTS GRAVEL SURFACING, SEE LANDSCAPE PLANS

CAST-IN-PLACE CONCRETE CURB PER DETAIL 05/C2.04

X CHAIN LINK FENCING, SEE LANDSCAPE PLANS

GENERAL NOTES

- 1. ALL RADII AND DIMENSIONS ARE TO THE FACE OF CURB, FACE OF WALL, FACE OF BUILDING, FLOWLINE OR FACE OF SIDEWALK, UNLESS OTHERWISE NOTED.
- 2. ALL PAVEMENT MARKINGS SHALL BE PAINT APPLIED IN TWO (2) APPLICATIONS. THE TIME PERIOD BETWEEN APPLICATIONS SHALL BE IN ACCORDANCE WITH WSDOT SPECIFICATION SECTION 8-22.3. PAINT SHALL BE TOP-COATED WITH GLASS BEADS PER WSDOT SPECIFICATION SECTION 8-22.3(3)G. PARKING STALL PAINT STRIPING SHALL BE 4" WIDE WHITE PAINT.
- 3. SEE LANDSCAPE PLANS FOR LANDSCAPING, IRRIGATION, NON-VEHICULAR PAVEMENT PAINT, SIDEWALKS, STAIRS, FENCING, GATES AND OTHER SURFACE FEATURES SHOWN HEREIN.
- 4. WHERE CONFLICTS OCCUR BETWEEN PLACEMENT OF NEW FACILITIES, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE CONTRACTOR, AND WILL BE RESOLVED BY THE ENGINEER.
- 5. ANY CURB, GUTTER, SIDEWALK OR OTHER EXISTING IMPROVEMENTS WHICH ARE DAMAGED NOW OR DURING THE COURSE OF CONSTRUCTION, OR WHICH DO NOT MEET CURRENT CITY OF PUYALLUP STANDARDS, SHALL BE REPLACED.
- 6. ALL ASPHALT PAVEMENT JOINT SECTIONS SHALL BE INSTALLED PER DETAIL 03/C2.04.







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FERRU 3213 WILDWOOD F

SEATTLE WA 98121 NAC NO 121-19038

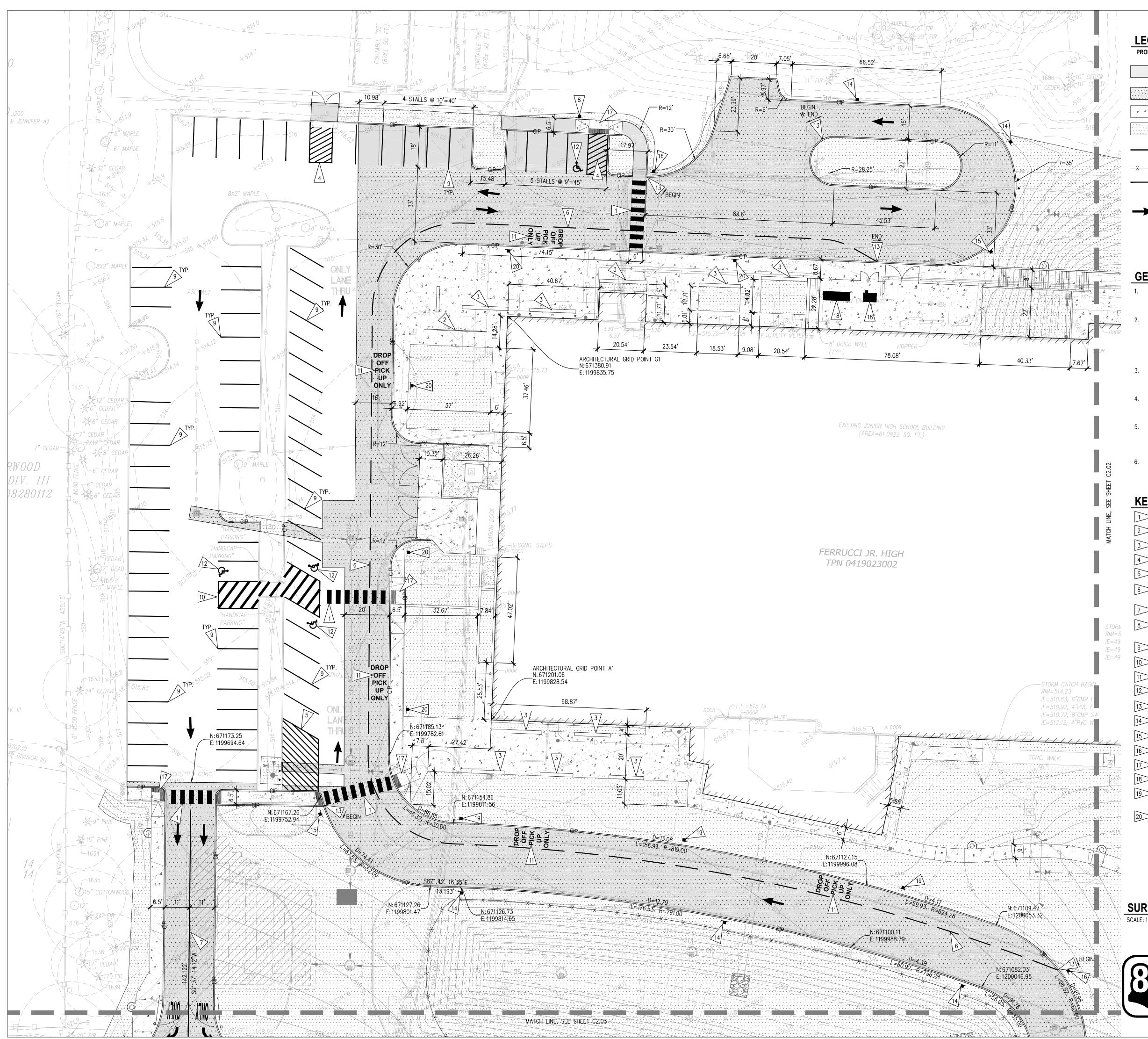
nacarchitecture.com 2021 1ST AVENUE

DRAWN VMS CHECKED RCH

DATE 05/10/2021

OVERALL SURFACING PLAN

SHEET 09 OF 45



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APPROVED

CITY OF PUYALLUP

DEVELOPMENT SERVICES

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

RESPONSIBLE FOR ERRORS AND/

OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE

CHANGES TO THESE PLANS AS

DATE 5/13/2021

THE CITY WILL NOT BE

DETERMINED BY THE ENGINEERING SERVICES

LEGEND PROPOSED FEATURES-

LIGHT DUTY ASPHALT PAVEMENT PER DETAIL 01/C2.04

HEAVY DUTY ASPHALT PAVEMENT PER DETAIL 02/C2.04

CONCRETE WALK, SEE LANDSCAPE PLANS SEE LANDSCAPE PLANS FOR SURFACING REQUIREMENTS

CAST-IN-PLACE CONCRETE CURB PER DETAIL

X X CHAIN LINK FENCING, SEE LANDSCAPE PLANS PAVEMENT STRIPING, TYPE PER PLAN

SIGNAGE, TYPE PER PLAN

PAVEMENT ARROW PER DETAIL 11/C2.04

ADA PARKING STALL MARKING PER DETAIL 09/C2.04 ONLY PAVEMENT MARKER PER DETAIL 12/C2.04

GENERAL NOTES

ALL RADII AND DIMENSIONS ARE TO THE FACE OF CURB, FACE OF WALL, FACE OF BUILDING, FLOWLINE OR FACE OF SIDEWALK, UNLESS OTHERWISE NOTED.

- ALL PAVEMENT MARKINGS SHALL BE PAINT APPLIED IN TWO (2) APPLICATIONS. THE TIME PERIOD BETWEEN APPLICATIONS SHALL BE IN ACCORDANCE WITH WSDOT SPECIFICATION SECTION 8-22.3. PAINT SHALL BE TOP-COATED WITH GLASS BEADS PER WSDOT SPECIFICATION SECTION 8-22.3(3)G. PARKING STALL PAINT STRIPING SHALL BE 4" WIDE WHITE PAINT.
- SEE LANDSCAPE PLANS FOR LANDSCAPING, IRRIGATION, NON-VEHICULAR PAVEMENT PAINT, SIDEWALKS, STAIRS, FENCING, GATES AND OTHER SURFACE FEATURES SHOWN HEREIN.
- WHERE CONFLICTS OCCUR BETWEEN PLACEMENT OF NEW FACILITIES, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE CONTRACTOR, AND WILL BE RESOLVED BY THE ENGINEER.
- ANY CURB, GUTTER, SIDEWALK OR OTHER EXISTING IMPROVEMENTS WHICH ARE DAMAGED NOW OR DURING THE COURSE OF CONSTRUCTION, OR WHICH DO NOT MEET CURRENT CITY OF PUYALLUP STANDARDS, SHALL BE REPLACED.
- ALL ASPHALT PAVEMENT JOINT SECTIONS SHALL BE INSTALLED PER DETAIL 03/C2.04.

KEY NOTES

- 1 CROSSWALK PER DETAIL 04/C2.04.
- 2 BIKE PARKING RACK PER LANDSCAPE.
- 3 BENCH PER LANDSCAPE.
- ADA LOADING/UNLOADING PAINT STRIPING PER DETAIL 10/C2.04.
- 5 4" WIDE RED PAINT STRIPING SIMILAR TO DETAIL 10/C2.04.
- 6 4" WIDE WHITE PAINT STRIPING. 8' STRIPE LENGTH W/ 4' GAP
- 4" WIDE WHITE PAINT STRIPE.
- 8 ADA PARKING SIGN PER 03/C2.05 MOUNTED ON POST PER
- 9 4" WIDE WHITE PARKING STALL PAINT STRIPE.
- 10 REFRESH EXISTING WHITE PAINT STRIPING.
- 11 24" WHITE PAINT LETTERING TO READ "DROP OFF PICK UP ONLY".
- 12 DISABLED PERSONS PAINT MARKING.
- 13 PAINT CURB RED COLOR PER DETAIL 08/C2.04.
- 14 NO PARKING FIRE LANE SIGN PER DETAIL 05/C2.05 TYPE A.
- 15 NO PARKING FIRE LANE SIGN PER DETAIL 05/C2.05 TYPE B.
- 16 NO PARKING FIRE LANE SIGN PER DETAIL 05/C2.05 TYPE C.
- 17 CURB RAMP PER C3.01.
- 18 MECHANICAL EQUIPMENT PER MECHANICAL PLANS.
- 19 SIGN PER DETAIL 05/C2.05 TYPE D MOUNTED ABOVE SIGN PER DETAIL 05/C2.05 TYPE E. 100' MAXIMUM SPACING BETWEEN SIGNS.
- SIGN PER DETAIL 05/C2.05 TYPE D MOUNTED ABOVE SIGN PER DETAIL 05/C2.05 TYPE F.



HORIZONTAL SCALE: 1"=20'

SURFACING PLAN

SCALE: 1"=20'





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PERMIT RESUBMITT

30-03-19 DDITI

nacarchitecture.com 2021 1ST AVENUE SEATTLE WA 98121

NAC NO 121-19038 drawn VMS CHECKED RCH

DATE 05/10/2021

SURFACING PLAN

SHEET 10 OF 45

FIFOUND 1/2" REBAR AND CAP

/ 'L'LS 18082 LS 17699'

REVISIONS

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30-03-19 DDITIO

CITY OF PUYALLUP

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES





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SHEET 11 OF 45

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SEATTLE WA 98121 P:206.441.4522

NAC NO 121-19038

DATE 05/10/2021

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PROPOSED FEATURES-

LIGHT DUTY ASPHALT PAVEMENT PER DETAIL 01/C2.04 HEAVY DUTY ASPHALT PAVEMENT PER DETAIL 02/C2.04 CONCRETE WALK, SEE LANDSCAPE PLANS N 4 4 PERVIOUS CONCRETE SIDEWALK PER DETAIL 04/C2.05 CURB AND GUTTER PER DETAIL 01/C2.05

SEE LANDSCAPE PLANS FOR SURFACING REQUIREMENTS CAST-IN-PLACE CONCRETE CURB PER DETAIL 05/C2.04 CHAIN LINK FENCING, SEE LANDSCAPE PLANS PAVEMENT ARROW PER DETAIL 11/C2.04

ONLY PAVEMENT MARKER PER 12/C2.04

GENERAL NOTES

- 1. ALL RADII AND DIMENSIONS ARE TO THE FACE OF CURB, FACE OF WALL, FACE OF BUILDING, FLOWLINE OR FACE OF SIDEWALK, UNLESS OTHERWISE NOTED.
- ALL PAVEMENT MARKINGS SHALL BE PAINT APPLIED IN TWO (2) APPLICATIONS. THE TIME PERIOD BETWEEN APPLICATIONS SHALL BE IN ACCORDANCE WITH WSDOT SPECIFICATION SECTION 8-22.3. PAINT SHALL BE TOP-COATED WITH GLASS BEADS PER WSDOT SPECIFICATION SECTION 8-22.3(3)G. PARKING STALL PAINT STRIPING SHALL BE 4" WIDE WHITE PAINT.
- SEE LANDSCAPE PLANS FOR LANDSCAPING, IRRIGATION, NON-VEHICULAR PAVEMENT PAINT, SIDEWALKS, FENCING, GATES AND OTHER SURFACE FEATURES SHOWN HEREIN.
- 4. WHERE CONFLICTS OCCUR BETWEEN PLACEMENT OF NEW FACILITIES, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE CONTRACTOR, AND WILL BE RESOLVED BY THE ENGINEER.

5. ANY CURB, GUTTER, SIDEWALK OR OTHER EXISTING IMPROVEMENTS WHICH ARE DAMAGED NOW OR DURING THE COURSE OF

CONSTRUCTION, OR WHICH DO NOT MEET CURRENT CITY OF

PUYALLUP STANDARDS, SHALL BE REPLACED. 6. ALL ASPHALT PAVEMENT JOINT SECTIONS SHALL BE INSTALLED PER DETAIL 03/C2.04.

KEY NOTES

- 1 SIGNAGE PER ARCHITECTURAL.
- 2 VEHICLE GATE PER LANDSCAPE.
- 3 CROSSWALK PER DETAIL 04/C2.04 WITH BAR WIDTH=8.0'.
- 4 CURB AND GUTTER PER DETAIL 01/C2.05.
- 5 NO PARKING FIRE LANE SIGN PER DETAIL 05/C2.05 TYPE A.
- 6 CURB RAMP PER C3.03.
- 7 PAINT CURB RED COLOR PER DETAIL 08/C2.04.
- 8 CROSSWALK PER DETAIL 04/C2.04 WITH BAR WIDTH=5.0'.

APPROVED

Berkey CITY OF PUYALLUP DEVELOPMENT SERVICES REVISIONS

PERMIT RESUBMITT

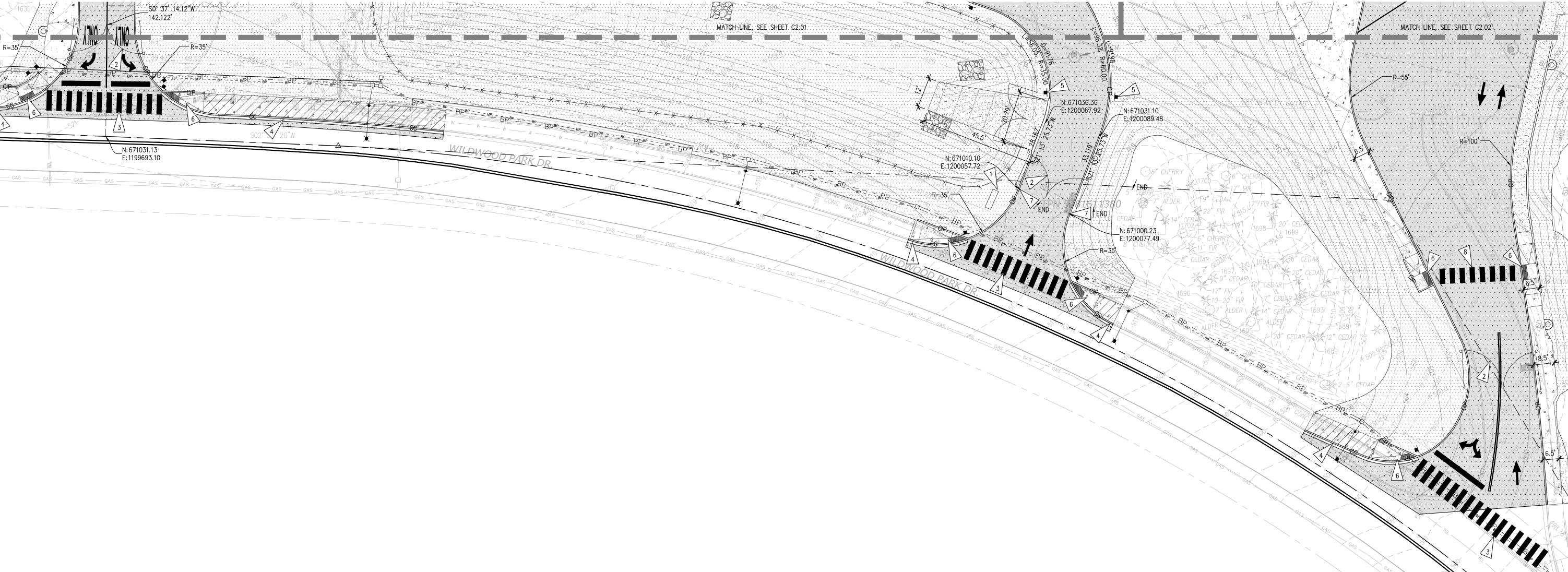
DATE_ 5/13/2021

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SURFACING PLAN





SHEET 12 OF 45

SURFACING PLAN

2021 1ST AVENUE SEATTLE WA 98121

05/10/2021

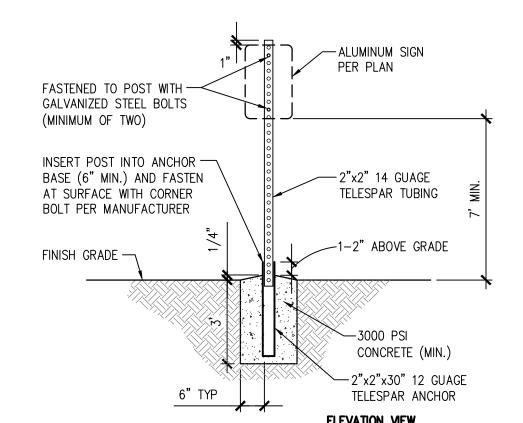
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REVISIONS

4" DEPTH PERVIOUS CONCRETE ----2" DEPTH CHOKER COURSE LAYER THE CITY WILL NOT BE PER AASHTO NO. 57 -RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS. GEOTEXTILE FABRIC MIRAFI 160N <u>OR</u> US FIELD CONDITIONS MAY DICTATE FABRIC US-160NW -CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER. - COMPACT SUBGRADE TO FIRM, UNYIELDING STATE. FINISHED SUBGRADE

SHALL BE INSPECTED BY THE PROJECT GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF PERVIOUS CONCRETE. **DO NOT OVER-COMPACT.** PROTECT SUBGRADE FROM OVER-COMPACTION BY CONSTRUCTION EQUIPMENT AND CONSTRUCTION TRAFFIC.

↑ PERVIOUS CONCRETE SIDEWALK SECTION SCALE: N.T.S.



ELEVATION VIEW → POST-MOUNTED SIGN DETAIL 02 | PUST-IV

PARKING

"B"

LOCATION WITH STATE DISABLED PARKING ARCHITECT PRIOR TO PERMIT REQUIRED INSTALLATION. 3. ALL SIGNS TO BE WHITE BACKGROUND WITH VAN BLACK LEGEND, UNLESS — AT VAN STALL **ACCESSIBLE** OTHERWISE NOTED. **ELEVATION VIEW** ADA PARKING SIGN SCALE: N.T.S.

SYMBOL

RESERVED

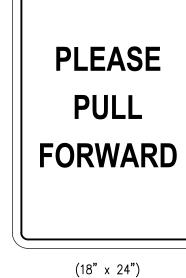
PARKING

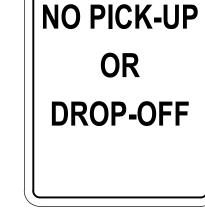
NO

FIRE LANE (18" x 24") (18" x 24") **ELEVATION VIEW ELEVATION VIEW**



"C"





1. ALL SIGNS AND STRIPING

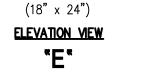
2. SEE SITE SURFACING AND

AND MUTCD.

SHALL BE INSTALLED PER

WSDOT STANDARD PLANS

LAYOUT PLANS FOR SIGN LOCATIONS. VERIFY



CURB LANE LOADING **ONLY DURING** SCHOOL HOURS

> (18" x 24") **ELEVATION VIEW** "F"

1. ALL SIGNS AND STRIPING SHALL BE INSTALLED PER WSDOT STANDARD PLANS AND MUTCD. 2. SEE SITE SURFACING AND LAYOUT PLANS FOR SIGN LOCATIONS. VERIFY LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. 3. ALL SIGNS TO BE WHITE BACKGROUND WITH BLACK LEGEND, UNLESS OTHERWISE NOTED.

ELEVATION VIEW

4. MOUNT EACH SIGN TO POST PER DETAIL 02/C2.05.

CITY OF CURB AND GUTTER DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CONTRACTION JOINTS SHALL BE 3/8" x 2 1/4" ASPHALT SATURATED FELT PLACED

THRU JOINTS SHALL BE 3/8" ASPHALT SATURATED FELT PLACED AT POINTS OF TANGENCY ON CURVES, AT CATCH BASINS, AND AT EDGES OF ALLEY AND DRIVEWAYS.

3. CONCRETE SHALL BE CLASS 3000 COMMERCIAL CONCRETE, 5.5 SACK MINIMUM, AASHTO

4. FORMS SHALL BE STEEL UNLESS PRIOR APPROVAL IS GIVEN BY THE CITY ENGINEER.

FORMS SHALL BE SET TRUE TO LINE AND GRADE AND SECURELY STAKED PRIOR TO

CONCRETE PLACEMENT. FULL DEPTH DIVISION PLATES ARE ONLY TO BE USED WHERE

5. THE 1" RADIUS ON THE UPPER FACE OF THE CURB MAY BE FORMED BY AN EDGER TOOL OR BUILT INTO THE FACE FORM. THE 1" RADIUS AT THE BOTTOM FACE OF THE CURB SHALL BE

THE MAXIMUM DISTANCE BETWEEN THRU JOINTS SHALL BE 100'.

GRADING 467 COARSE AGGREGATE, NO FLY ASH.

THRU JOINTS ARE TO BE PLACED.

FORMED BY THE FACE FORM.

IN ALL EXPOSED SURFACES OF CURB AND GUTTER AND SPACED AT 15' MAX. 10' MIN. O.C.

1/2" R —

12"

___ 1/2" R

_ 4" CSBC OR GRAVEL BASE

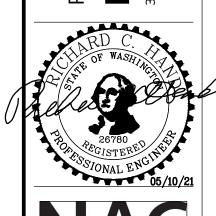
COMPACTED AT 95%

SUITABLE NATIVE SOIL COMPACTED AT 95%

O1 CURB AND GUTTER
SCALE: N.T.S.







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NAC NO 121-19038 DRAWN VMS CHECKED RCH

DATE 05/10/2021

SURFACING DETAILS

SHEET 14 OF 45

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18711 | Project Mgr.:



0 30-03-19 DDITI FERRUCCI JUNIOR

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APPROVED

CITY OF PUYALLUP DEVELOPMENT SERVICES **REVISIONS**

PERMIT RESUBMIT

DATE_ 5/13/2021

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LEGEND PROPOSED FEATURES-

—— SD —— STORM DRAIN PIPE

—— FD —— FOOTING DRAIN PIPE PER DETAIL 07/C3.04

TYPE 1 CB

TYPE 2 CB

STORM DRAIN CLEANOUT

— — — — GRADE BREAK

GENERAL NOTES

- 1. TYPE 1 CB'S SHALL CONFORM WITH CITY STANDARD DETAIL 02.01.02 (SEE DETAIL 01/C3.05) AND DETAIL 02.01.03 (SEE DETAIL 02/C3.05) REQUIREMENTS. EARTHWORK REQUIREMENTS SHALL COMPLY WITH GENERAL NOTE 4 REQUIREMENTS.
- 2. TYPE 2 CB'S SHALL CONFORM WITH CITY STANDARD DETAIL 02.01.04 REQUIREMENTS (SEE DETAIL 03/C3.05). EARTHWORK REQUIREMENTS SHALL COMPLY WITH GENERAL NOTE 4 REQUIREMENTS.
- 3. CB FRAMES AND GRATES SHALL BE LOCKING AND COMPLY WITH CITY STANDARD DETAIL 02.01.05 (SEE DETAIL 04/C3.05). SOLID COVER FOR TYPE 1 CB SHALL COMPLY WITH WSDOT STANDARD PLAN B-30.20-04. SOLID COVER FOR TYPE 2 CB SHALL COMPLY WITH CITY STANDARD DETAIL 06.01.02 (SEE DETAIL 07/C3.05). BEEHIVE GRATES SHALL COMPLY WITH DETAIL 08/C3.04.
- 4. TYPICAL SD UTILITY TRENCH AND STRUCTURE EXCAVATION, BEDDING & BACKFILL REQUIREMENTS SHALL COMPLY WITH DETAILS 04 & 05/C3.04 UNLESS OTHERWISE DETAILED.
- 5. BUILDING DOWNSPOUT CONNECTION SHALL COMPLY WITH DETAIL 07 & 10/C3.04 REQUIREMENTS. COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS FOR EXACT HORIZONTAL LOCATIONS.
- 6. PROVIDE CONCRETE COLLARS FOR CATCH BASINS NOT IN PAVED LOCATIONS PER DETAIL 02/C3.04.
- 7. INSTALL STORM DRAIN CLEANOUTS PER DETAIL 01/C3.04.
- 8. PROVIDE 4'-0" MINIMUM COVER OVER STORMWATER FORCE MAIN PIPELINE UNLESS OTHERWISE SPECIFIED.
- 9. COMPLY WITH UTILITY CROSSING CLEARANCE REQUIREMENT IN DETAILS 02 & 03/C4.03.
- 10. AMEND ALL DISTURBED SOILS PER CITY STANDARD DETAIL 01.02.08A (SEE DETAIL 03/C3.07).



Call 811 two business days before you dig



Proj. Engineer: VMS | Proj. Drafter:

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SHEET 15 OF 45

PLAN

FERRU 3213 WILDWOOD F

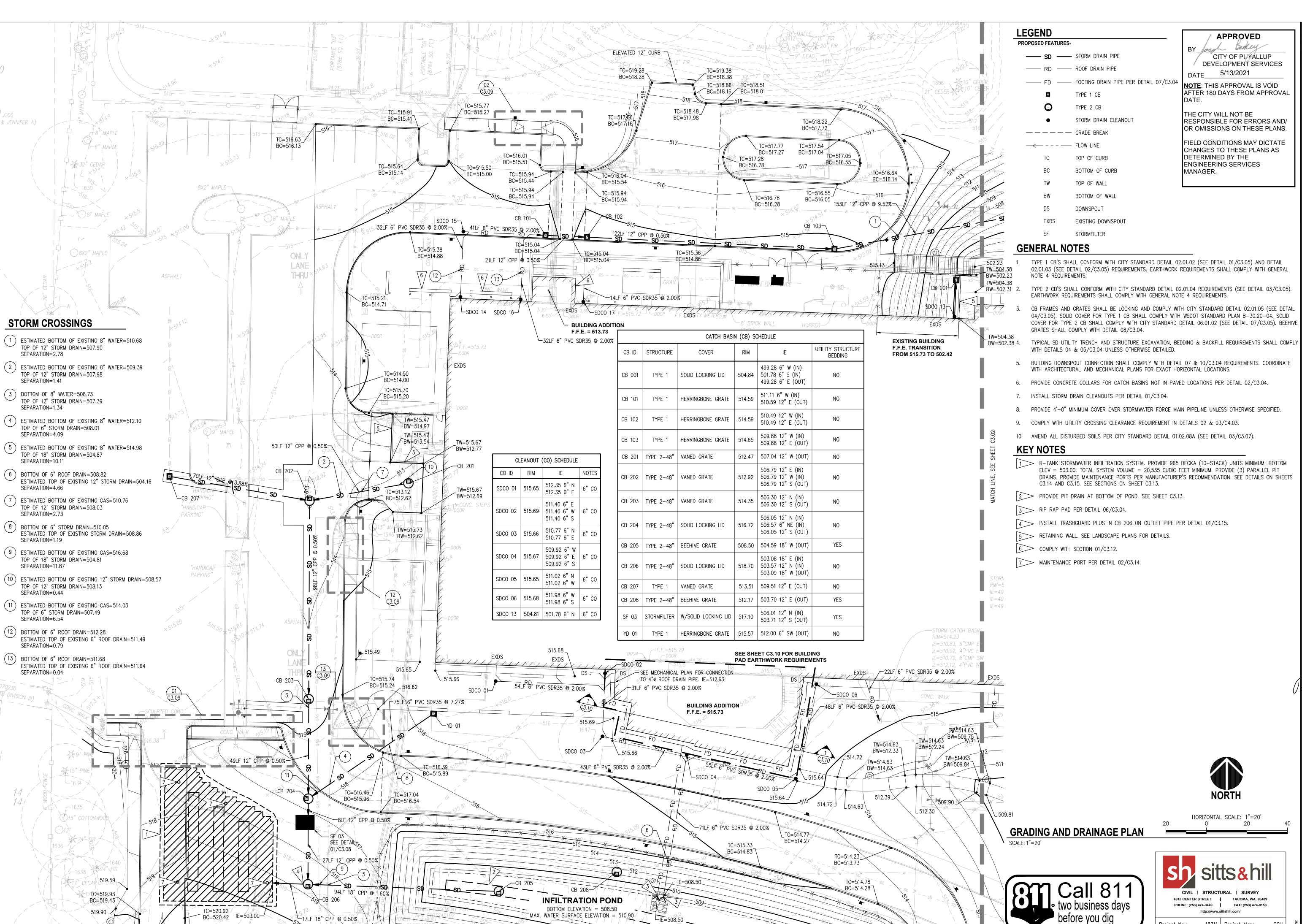
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NAC NO 121-19038

DATE 05/10/2021

OVERALL GRADING AND DRAINAGE

DRAWN VMS CHECKED RCH



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NAC NO 121-19038 DRAWN VMS CHECKED RCH

DATE 05/10/2021

GRADING AND DRAINAGE PLAN

SHEET 16 OF 45

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Proj. Engineer: VMS | Proj. Drafter:

oject No.:

APPROVED

CITY OF PUYALLUP

DEVELOPMENT SERVICES

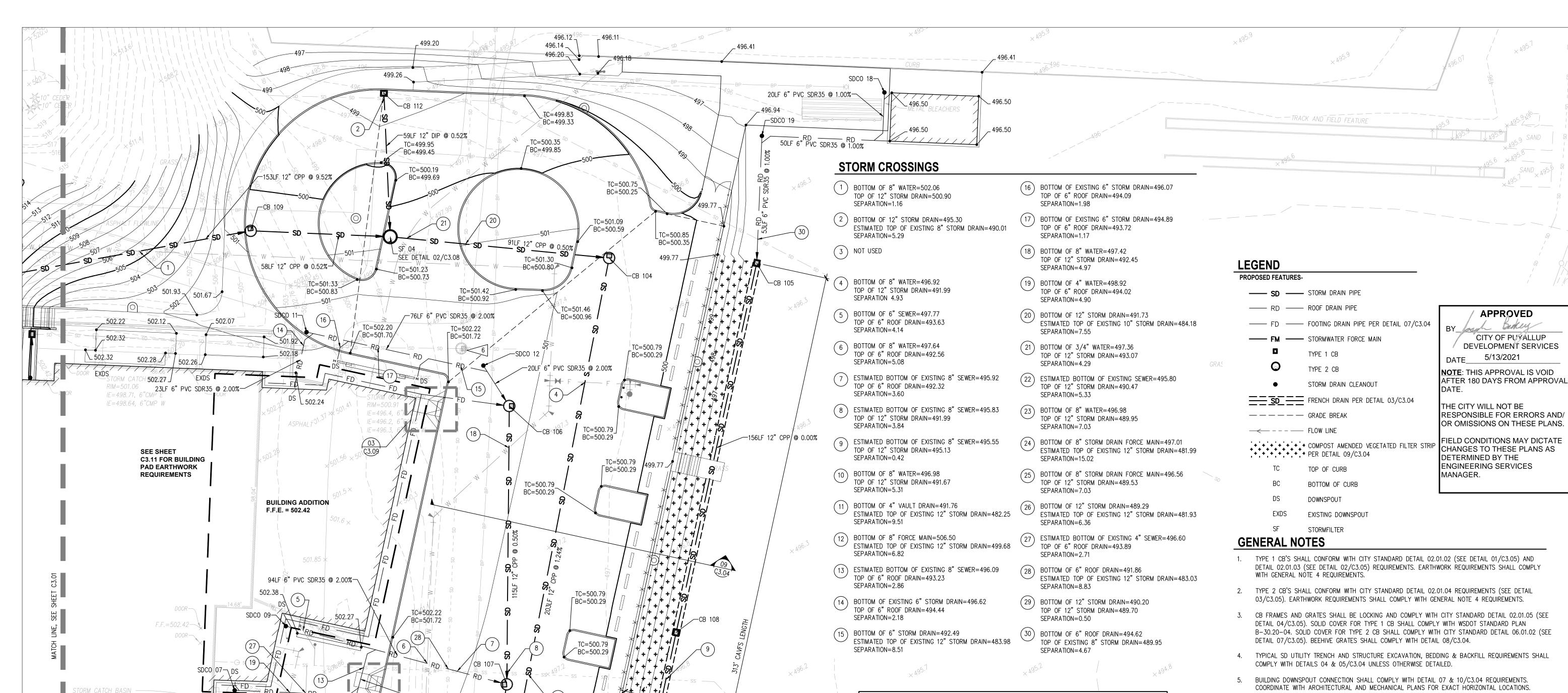
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GRADING AND DRAINAGE PLAN

SHEET 17 OF 45



─156LF 12" CPP/@ 0.00%

-28LF 12" CPP @\14.14%

SEE DETAIL 01/C3.06

__44LF 12" CPP @ 6.13%

."_CPP @ 4.58%

-20LF 6" PVC/SDR35 @ 2.00%

TC=500.68

BC=500.18

TC=500.78

BC=500.28

6LF 8" CL235 C900 PVC-

TC=500.70 BC=500.20

-SDCO 08

			\		CATCH BASIN (CB) SCHEDULE						
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		\		CB ID	STRUCTURE	COVER	RIM	IE	UTILITY STRUCTURE BEDDING	
				\	CB 104	TYPE 2-48"	SOLID LOCKING LID	500.64	491.53 12" W (IN) 491.53 12" S (OUT)	YES	
		8		\	CB 105	TYPE 1	SOLID LOCKING LID	496.02	494.54 6" N (IN) 494.02 12" S (OUT)	YES	
		× 496.2 \ x	s , , , ,	\ \ /	CB 106	TYPE 2-48"	SOLID LOCKING LID	501.19	491.94 6" NW (IN) 500.03 4" W (IN) 491.42 12" S (OUT)	YES	
0.00%				\ / /	CB 107	TYPE 2-48"	SOLID LOCKING LID	500.67	490.85 12" N (IN) 491.37 6" W (IN) 490.85 12" S (OUT)	YES	
			/		CB 108	TYPE 1	SOLID LOCKING LID	496.02	494.02 12" N (IN) 494.02 12" S (OUT)	YES	
			/ / 		CB 109	TYPE 2-48"	SOLID LOCKING LID	500.33	495.33 12" W (IN) 495.33 12" E (OUT)	YES	
		×496. ¹	 		CB 111	TYPE 1	SOLID LOCKING LID	496.02	494.02 12" N (IN) 494.02 12" SW (OUT)	YES	
	LEANOUT		`\]	CB 112	TYPE 1	BI-DIRECT. VANED GRATE	498.60	495.34 12" S (OUT)	YES	
CO ID	RIM	(CO) SCHEDULE	NOTES		CB 113	TYPE 2-48"	SOLID LOCKING LID	500.47	490.34 12" N (IN) 491.06 4" W (IN) 490.34 12" SE (OUT)	YES	
SDCO 07	502.38	493.96 6" N 493.96 6" E	6" CO	\	CB 114	TYPE 2-48"	SOLID LOCKING LID	500.95	488.22 12" N (IN) 488.22 12" SE (OUT)	YES	
SDCO 08	502.09	492.95 6" W 492.95 6" N	6" CO						489.01 12" N (IN)	VEC	
SDCO 09	502.38	493.26 6" N 493.26 6" E	6" CO	/	CB 115	TYPE 2-48"	SOLID LOCKING LID	500.47	489.01 12" S (OÚT)	YES	
SDCO 11	501.30	493.81 6" S 493.81 6" E	6" CO		PS 401	TYPE 2-96"	SOLID LOCKING LID	499.59	490.07 12" NW (IN) 490.13 12" S (IN) 490.13 12" NE (IN) 495.76 8" W (OUT)	YES	
SDCO 12	501.47	492.34 6" SE	6" CO						495.67 12" SE (OUT)		

KEY NOTES

1 RIP RAP PAD PER DETAIL 06/C3.04 AND TRASH RACK PER DETAIL 05/C3.05.

7. INSTALL STORM DRAIN CLEANOUTS PER DETAIL 01/C3.04.

6. PROVIDE CONCRETE COLLARS FOR CATCH BASINS NOT IN PAVED LOCATIONS PER DETAIL 02/C3.04.

8. PROVIDE 4'-0" MINIMUM COVER OVER STORMWATER FORCE MAIN PIPELINE UNLESS OTHERWISE

10. AMEND ALL DISTURBED SOILS PER CITY STANDARD DETAIL 01.02.08A (SEE DETAIL 03/C3.07).

9. COMPLY WITH UTILITY CROSSING CLEARANCE REQUIREMENT IN DETAILS 02 & 03/C4.03.

2 1 - 8" 22.5° ELL 1 – THRUST BLOCK

3 6" Ø SDR35 VENT PIPING FOR PS 401 & VALVE VAULT. SEE SHEET C3.06.

CONTROL PANEL FOR PUMP STATION. SEE SHEET C3.06.

ELECTRICAL JUNCTION BOX. RECORD LOCATION OF EXISTING TYPE 2 CB. RIM = 494.00IE=483.00 12" CMP S

IE=492.30 6" CMP W IE=483.00 10" CMP N

GRADING AND DRAINAGE PLAN SCALE: 1"=20'

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18711 | Project Mgr.: Proj. Engineer: VMS | Proj. Drafter:

NORTH

HORIZONTAL SCALE: 1"=20'

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RIM = 501.54

72, 8"CMP SW

IE = 499.54, 4"CPP NW

IE=499.84, 6"PVC S

IE=499.84, 3"CPP W

IE=499.33, 6"PVC N

STORM CATCH BASIN _____EXDS

7 21LF 6" PVC SDR35 @ 2.00%

EXISTING BUILDING

F.F.E. TRANSITION FROM 515.73 TO 502.42 50LF 6" PVC \$DR35 @ 2.00%-

502.43

502.22 _

502.26

502.22

₹ 502.17

502.06 📝

∖ 501.93

TC=501.66

BC≠501.16

MATCH LINE, SEE SHEET C3.03

FIFOUND 1/2" REBAR AND CAP

SF 04 | STORMFILTER | W/ SOLID LOCKING LID

495.03 12" W (IN)

495.03 12" N (IN)

491.98 12" E (OUT)

two business days before you dig

— — — — GRADE BREAK

TOP OF CURB

BOTTOM OF CURB

── - - - FLOW LINE

GENERAL NOTES

- 1. TYPE 1 CB'S SHALL CONFORM WITH CITY STANDARD DETAIL 02.01.02 (SEE DETAIL 01/C3.05) AND DETAIL 02.01.03 (SEE DETAIL 02/C3.05) REQUIREMENTS. EARTHWORK REQUIREMENTS SHALL COMPLY WITH GENERAL NOTE 4 REQUIREMENTS.
- 2. TYPE 2 CB'S SHALL CONFORM WITH CITY STANDARD DETAIL 02.01.04 REQUIREMENTS (SEE DETAIL 03/C3.05). EARTHWORK REQUIREMENTS SHALL COMPLY WITH GENERAL NOTE 4 REQUIREMENTS.
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- 8. PROVIDE 4'-0" MINIMUM COVER OVER STORMWATER FORCE MAIN PIPELINE UNLESS OTHERWISE SPECIFIED.
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- 10. AMEND ALL DISTURBED SOILS PER CITY STANDARD DETAIL 01.02.08A (SEE DETAIL 03/C3.07).

KEY NOTES

- PROVIDE PIT DRAIN AT BOTTOM OF POND. SEE SHEET C3.13.
- 2 RIP RAP PAD PER DETAIL 06/C3.04 AND TRASH RACK PER DETAIL 05/C3.05.

STORM CROSSINGS

- ESTIMATED BOTTOM OF EXISTING 12" STORM DRAIN=494.23
 TOP OF 12" STORM DRAIN=493.63
 SEPARATION=0.60
- 2 ESTIMATED BOTTOM OF EXISTING 8" WATER=510.80 TOP OF 18" STORM DRAIN=510.23 SEPARATION=0.57
- BOTTOM OF 12" STORM DRAIN=510.23
 ESTIMATED TOP OF EXISTING 8" WATER=509.93
 SEPARATION=0.30
- 4 BOTTOM OF 12" STORM DRAIN=492.36
 TOP OF 12" STORM DRAIN=489.17
 SEPARATION=3.19

APPROVED BY Berkey

CITY OF PUYALLUP
DEVELOPMENT SERVICES
DATE_ 5/13/2021

REVISIONS

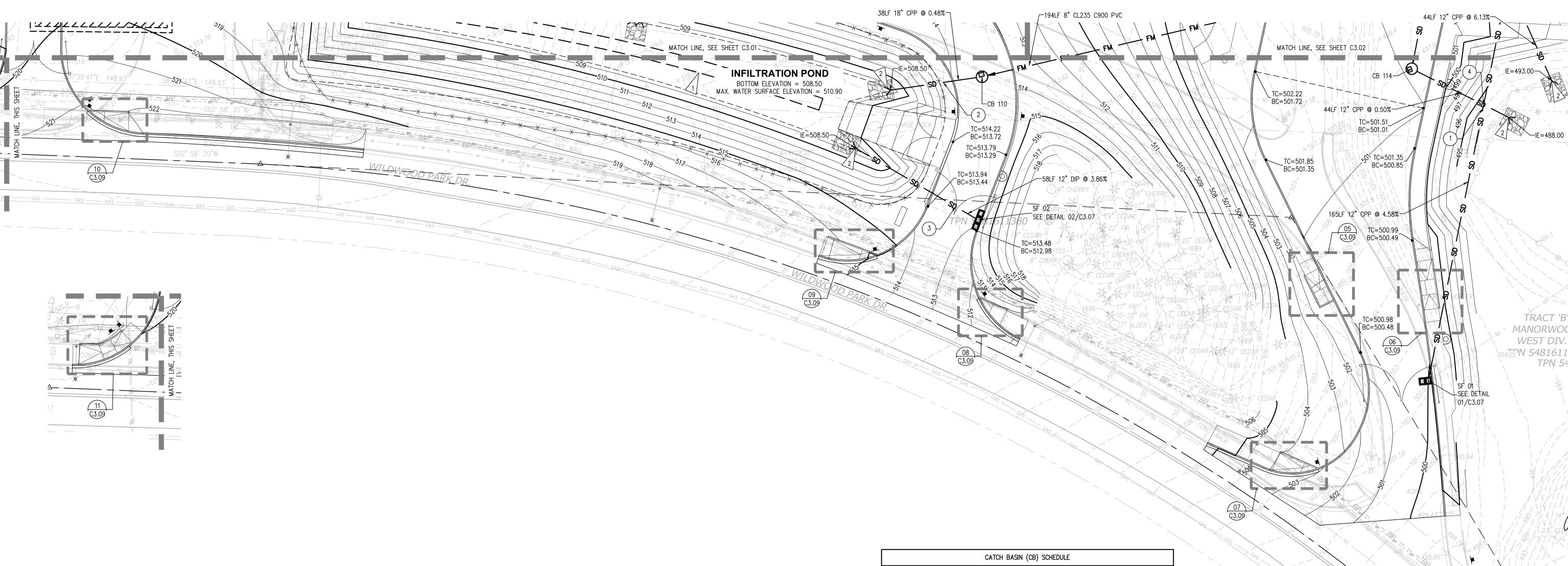
PERMIT RESUBMIT

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.

RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS

FIELD CONDITIONS MAY DIC CHANGES TO THESE PLANS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

THE CITY WILL NOT BE



CATCH BASIN (CB) SCHEDULE

CB ID STRUCTURE COVER RIM IE UTILITY STRUCTURE BEDDING

CB 110 TYPE 2-48" SOLID LOCKING LID 513.71 509.05 8" E (IN) NO

CB 114 TYPE 2-48" SOLID LOCKING LID 500.95 488.22 12" N (IN) NO

SF 01 STORMFILTER VANED GRATE 500.00 497.70 12" N (OUT) NO

SF 02 STORMFILTER VANED GRATE 513.04 510.74 12" NW (OUT) NO

GRADING AND DRAINAGE PLAN



HORIZONTAL SCALE: 1"=20'
0 0 20 40





Project No.: 18711 Project Mgr.: RC
Proj. Engineer: VMS Proj. Drafter: VM

GRADING AND DRAINAGE PLAN

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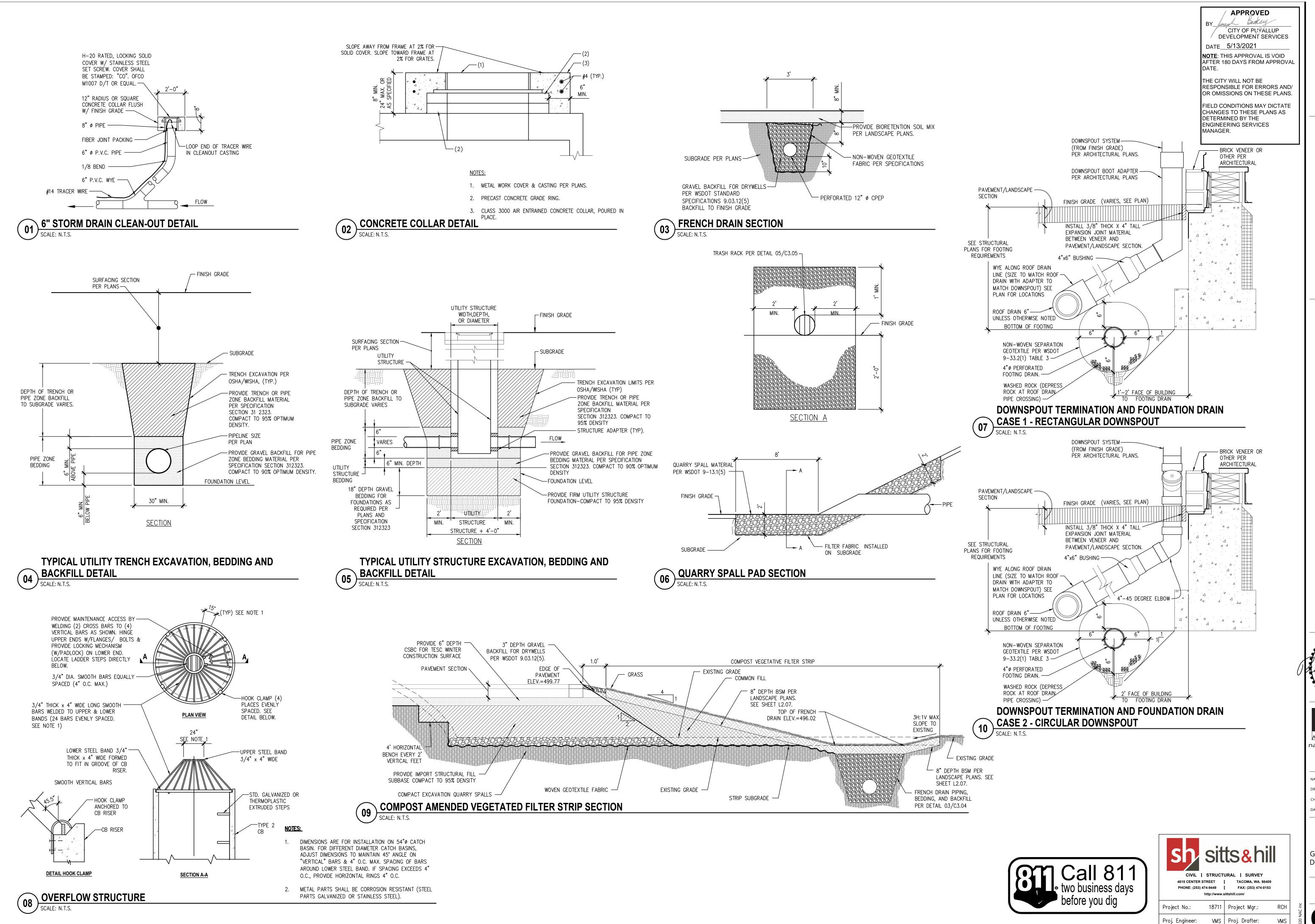
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DATE 05/10/2021

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SHEET 18 OF 45



REVISIONS

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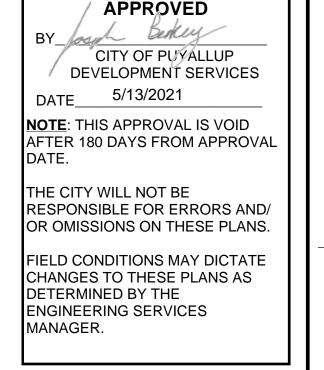
2021 1ST AVENUE SEATTLE WA 98121 P:206.441.4522 NAC NO 121-19038

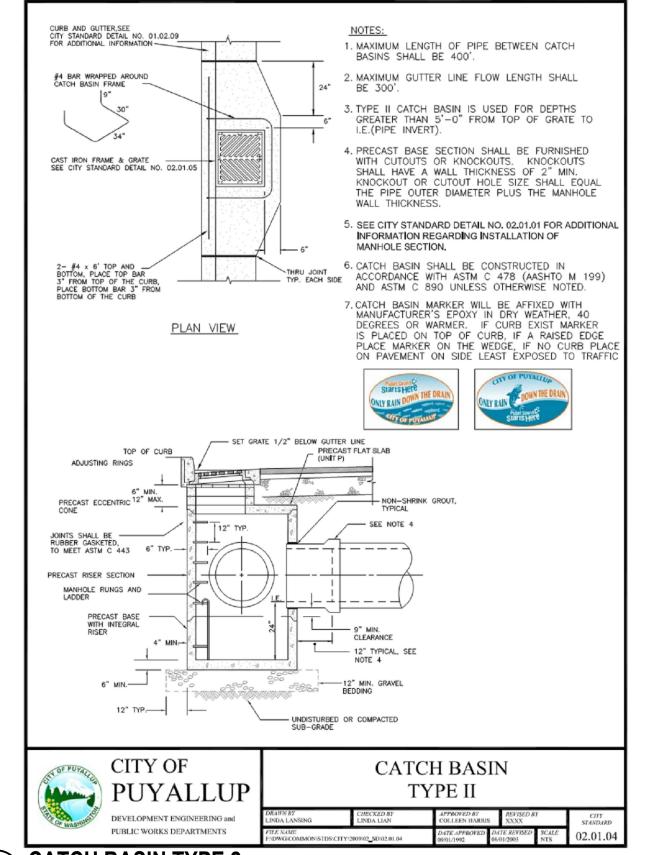
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DATE 05/10/2021

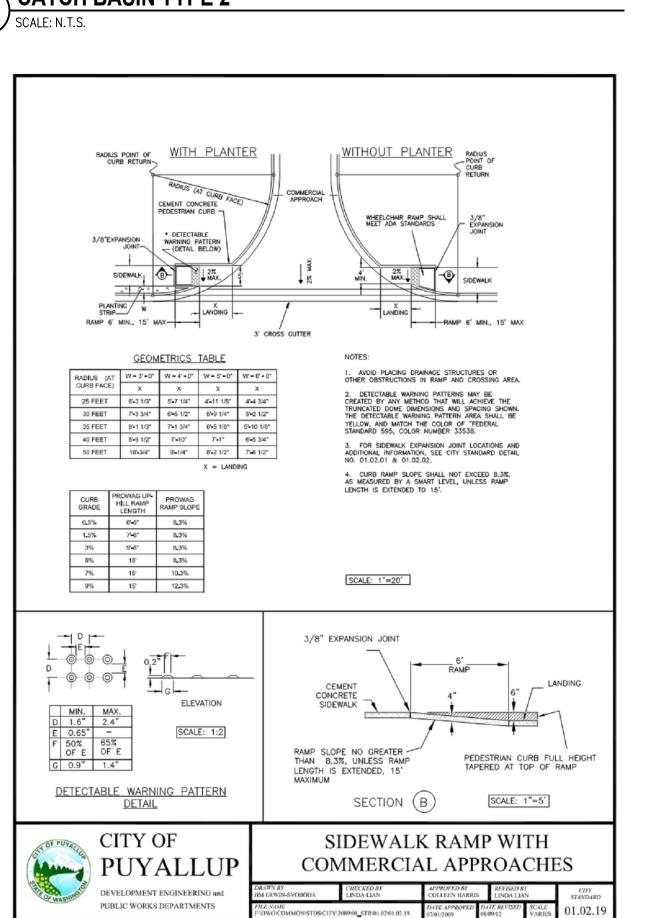
GRADING AND DRAINAGE DETAILS

SHEET 19 OF 45





CATCH BASIN TYPE 2



. FOR STORM APPLICATIONS CAST LETTERS SHALL READ "STORM"

FRAME AND COVER PLAN VIEW

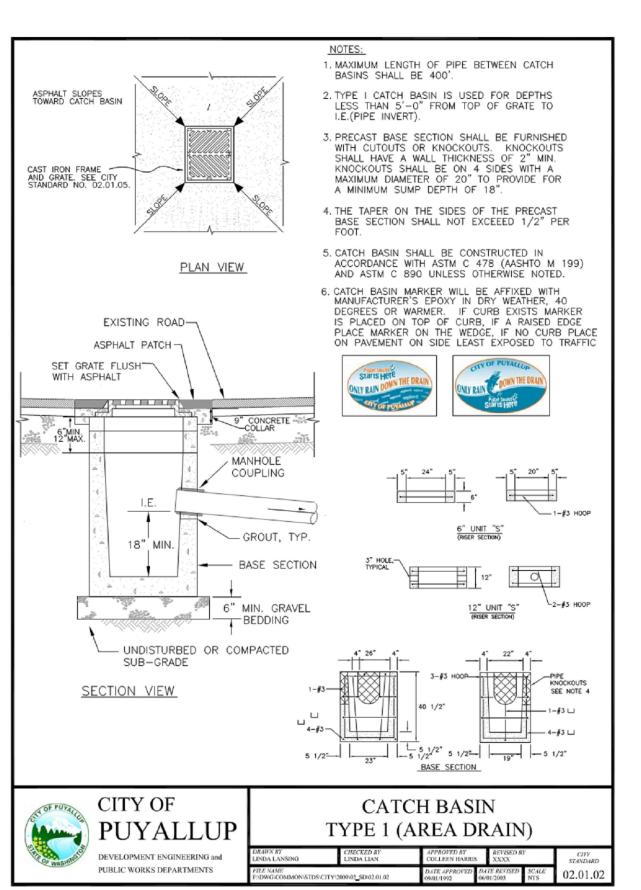
COVER



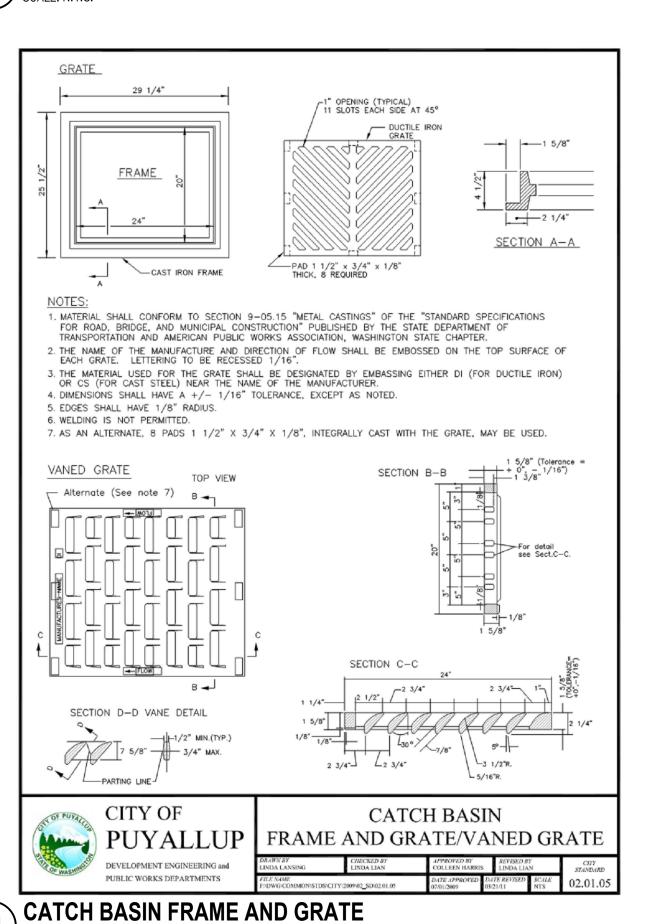


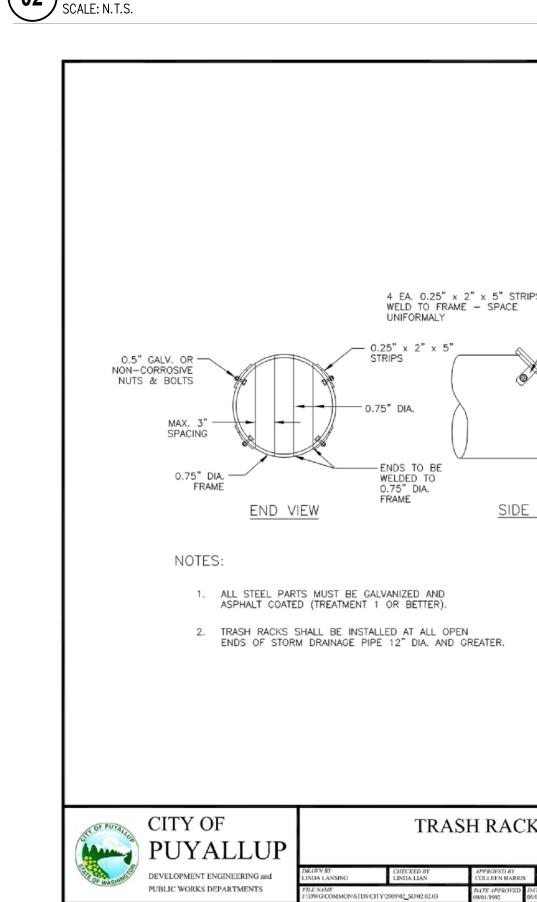


INSTALL FRAME AND COVER IN ROADWAY WITH HINGED SIDE OF ASSEMBLY POINTED TOWARD ONCOMING TRAFFIC.



CATCH BASIN TYPE 1 (AREA DRAIN)





TRASH RACK

SCALE: N.T.S.

CURB AND GUTTER,SEE CITY STANDARD DETAIL NO. 01.02.09 FOR ADDITIONAL INFORMATION

CAST IRON FRAME & GRATE
SEE CITY STANDARD DETAIL NO. 02.01.05

PLAN VIEW

- SET GRATE 1/2" BELOW GUTTER LINE

COUPLING

GROUT, TYP.

BASE SECTION

6" MIN. GRAVEL BEDDING 1-#3-

- UNDISTURBED OR COMPACTED

CATCH BASIN TYPE 1 (GUTTER DRAIN)

SUB-GRADE

SECTION VIEW

PUYALLU

DEVELOPMENT ENGINEERING and

PUBLIC WORKS DEPARTMENTS

CITY OF

#4 BAR WRAPPED AROUND CATCH BASIN FRAME -

12" MAX.

1. MAXIMUM LENGTH OF PIPE BETWEEN CATCH

2. MAXIMUM GUTTER LINE FLOW LENGTH SHALL

4. PRECAST BASE SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN.

KNOCKOUTS SHALL BE ON 4 SIDES WITH A MAXIMUM DIAMETER OF 20" TO PROVIDE FOR

5. REINFORCING BARS SHALL BE CUT OR BENT AS REQUIRED TO CLEAR CUTOUTS.

7. CATCH BASIN SHALL BE CONSTRUCTED IN

BASE SECTION

CATCH BASIN

TYPE 1 (GUTTER DRAIN)

8. THE APRON SHALL BE 8" IN DEPTH.

6. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION SHALL NOT EXCEEED 1/2" PER FOOT.

ACCORDANCE WITH ASTM C 478 (AASHTO M 199) AND ASTM C 890 UNLESS OTHERWISE NOTED.

9. CATCH BASIN MARKER WILL BE AFFIXED WITH MANUFACTURER'S EPOXY IN DRY WEATHER, 40 DEGREES OR WARMER. IF CURB EXISTS MARKER IS PLACED ON TOP OF CURB, IF A RAISED EDGE

PLACE MARKER ON THE WEDGE, IF NO CURB PLACE ON PAVEMENT ON SIDE LEAST EXPOSED TO TRAFFIC

___1-#3 HOOP

2-#3 HOOP

SEE NOTE 4

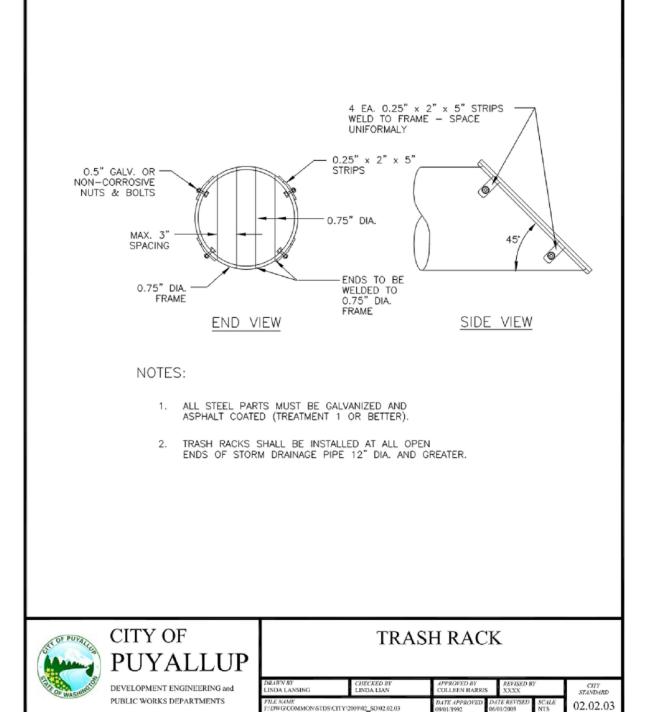
DATE APPROVED | DATE REVISED | SCALE | 02.01.03 | 06/01/2003 | NTS | 02.01.03

A MINIMUM SUMP DEPTH OF 18".

3. TYPE I CATCH BASIN IS USED FOR DEPTHS LESS THAN 5'-0" FROM TOP OF GRATE TO

BASINS SHALL BE 400'.

I.E.(PIPE INVERT).



ADA CURB RAMP

OLYMPIC FOUNDRY MH41 RING & HINGE PUYALLUP COVER (PRE-APPROVED PRODUCT) A◀─ SECTION A-A FRAME AND COVER OPENING FRAME AND COVER PLAN VIEW EAST JORDAN IRON WORKS 24" "ERGO" AND OLYMPIC FOUNDRY MH41 RING & HINGE PUYALLUP COVER ARE PRE—APPROVED PRODUCTS AND SHALL BE USED FOR PUBLICLY—OWNED INFRASTRUCTURE, ALL OTHERS REQUIRE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION. MANHOLE FRAME AND COVERS SHOULD NOT BE LOCATED IN PEDESTRIAN PATHWAYS (E.G. SIDEWALKS, CROSSWALKS, ETC.). WHERE EXISTING OR PROPOSED CONDITIONS REQUIRE A MANHOLE FRAME AND COVER TO BE INSTALLED WITHIN A PEDESTRIAN PATHWAY, THE MANHOLE FRAME AND COVER SHALL BE ADA COMPLIANT. NON-ROCKING FIT FOR MANHOLE COVERS. CASTING TO BE SHOT BLASTED AND FREE FROM SURFACE SAND AND SCALE. CASTING TO BE SMOOTH, TRUE TO PATTERN, FREE FROM BLOWHOLES, POROSITY HARD SPOTS, SHRINK HOLES, WARP, OR ANY OTHER DEFECTS

SECTION A-A

FULLY OPENED AT 12

FRAME AND COVER OPENING

EAST JORDAN IRON WORKS 24" "ERGO" FRAME & COVER (PRE-APPROVED PRODUCT)

THE CITY SHALL HAVE THE RIGHT TO REQUIRE INSPECTION AND APPROVAL OF ALL CASTINGS PRIOR TO PAINTING.

VMS | Proj. Drafter:

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ERRU

9

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DRAINAGE DETAILS

GRADING AND

SHEET 20 OF 45

APPROVED

Derkly

CITY OF PUYALLUP

DEVELOPMENT SERVICES

NOTE: THIS APPROVAL IS VOID

AFTER 180 DAYS FROM APPROVAL

RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS

SIZE

8" DIA

8" DIA

8" DIA | DIP

8" DIA DIP

8" DIA DIP

8" DIA | DIP

8"X3"X8" DIP

8" DIA DIP

8" DIA DIP

8" DIA | DIP

8" DIA DIP

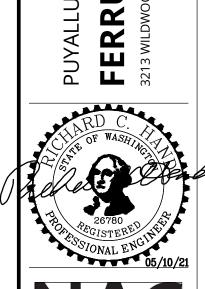
TYPE

DATE 5/13/2021

THE CITY WILL NOT BE

DETERMINED BY THE ENGINEERING SERVICES

MANAGER.





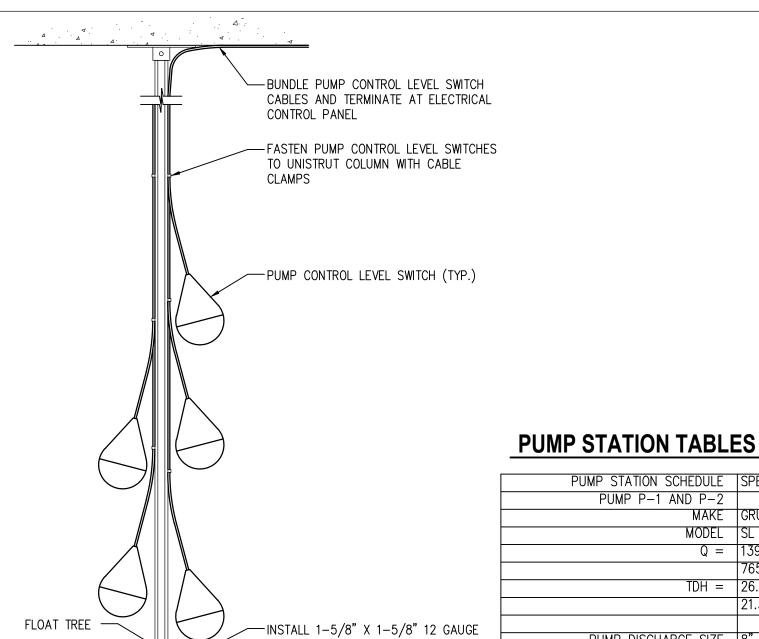
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DATE 05/10/2021

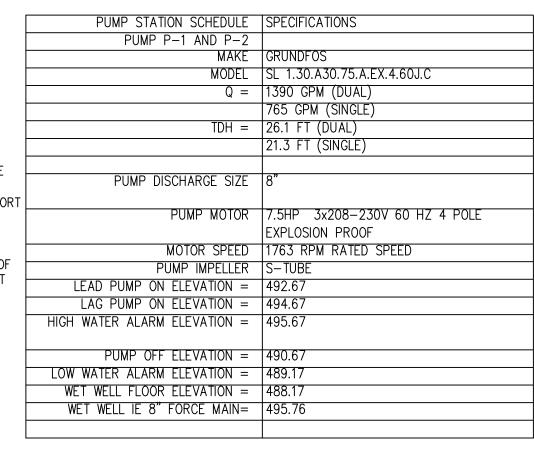
GRADING AND DRAINAGE DETAILS

SHEET 21 OF 45



STAINLESS STEEL UNISTRUT COLUMN WITH "HS" HOLE PATTERN FOR SUPPORT OF LEVEL FLOAT SWITCHES -INSTALL STAINLESS STEEL UNISTRUT POST BASE AT FLOOR AND CEILING OF MANHOLE FOR SUPPORT OF UNISTRUT

PUMP P-1 AND P-2



ITEM # MATERIALS LIST PUMP BASE 8" CL235 C900 PVC PIPE FL X MJ ADAPTER WITH MEGALUG PUMP DISCHARGE PIPELINE MJ 90 DEGREE ELL WITH 2 MEGALUGS ROMAC 501 TRANSITION COUPLING ROMAC 501FAC (FLANGED COUPLING ADAPTER) FLANGED DIP TEE MUELLER A-2602-6-02B1 RUBBER DISC FACE FL RESILIENT SEAT WEDGE GATE VALVE NON RISING STEM WITH 2" OPERATIONAL NUT AND HAND WHEEL. GATE VALVE NORMALLY OPEN MJ WYE WITH MEGALUGS FL X MJ 45 DEGREE ELL WITH MEGALUG NOT USED. SHACKLED CLAMP OR MEGALUG SEWAGE COMBINATION AIR/VAC VALVE. APCO SERIES 440 SCAV, MODEL 447 3". PROVIDE INLET AND OUTLET BACKFLUSHING NIPPLES AND SHUT OFF GATE VALVES. GATE VALVES NORMALLY CLOSED. LINK SEAL. SIZE TO FIT ANNULAR SPACE BETWEEN PIPELINE OUTSIDE <u>DIAMETER AND CONCRETE VAULT WALL CORE DRILL</u> PROVIDE 4" DIAMETER DIP BLIND FLANGE, DRILLED AND TAPPED FOR 3" NPT, (2)3" DIAMTER S.S NIPPLES AND (1) INLET S.S GATE VALVE. GATE VALVE NORMALLY OPEN. PROVIDE 24" DIAMETER DIP FRAME AND COVER PER WSDOT STANDARD PLAN B-30.70-04, H20 RATED, BOLT DOWN/WATERTIGHT TYPE 2, STANDARD "STORM". CAST INTO VAULT TOP. PROVIDE POLYPROPYLENE LADDER WITH RETRACTABLE CENTER SAFETY RAIL, LANE POLYPROPYLENE VAULT LADDER COMPLYING WITH ASTM D4101 AND C497 REQUIREMENTS. SECURE IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS. ACCESS HATCH, LW HATCH HD-3C, 48" X 72" DOUBLE LEAF DOOR WITH SAFETY GRATING, ALUMINUM DIAMOND PLATE HATCH COVER, S.S. HARDWARE, SPRING LOADED WITH LOCKING MECHANISM, DRAINAGE CHANNEL AND HOLD OPEN ARM. CAST INTO VAULT TOP. ACCESS HATCH, LW HATCH MODEL HD-4A, 60" X 60" DOUBLE LEAF DOOR WITH SAFETY GRATING, ALUMINUM DIAMOND PLATE HATCH COVER, S.S. HARDWARE, SPRING LOADED WITH LOCKING MECHANISM, DRAINAGE CHANNEL AND HOLD OPEN ARM. CAST INTO VAULT TOP. 4" DIAMETER GPK SAND COLLAR 4" DIAMETER SDR 35 PVC PIPE PROVIDE PIPE BELL OR GASKETED STOP COUPLING PROVIDE 4" DIAMETER PVC SOLVENT WELD BACKWATER CHECK

6" DIAMETER GPK SAND COLLAR

96" DIAMETER TYPE 3 CONCRETE PUMP STATION PER WSDOT

PROVIDE PUMP GUIDE RAIL SYSTEM, GUIDE RAIL SUPPORT AND

PROVIDE PUMP DISCHARGE PIPE SUPPORT, SHACKLE CLAMPS, ALL

HARDWARE. ALL COMPONENTS SHALL BE STAINLESS STEEL

THREAD AND WALL ANCHORS AT MINIMUM 6' O.C. ALL

COMPONENTS SHALL BE S.S OR DUCTILE IRON.

STANDARD PLAN B-15.60-02 AND B-30.90-02

LEVEL SWITCH INSTALLATION DETAIL

11 GAUGE ALUMINUM BACKBOARD. SIZE TO PROVIDE ALL PANELS AND EQUIPMENT. COORDINATE WITH ELECTRICAL. 2. S.S. UNISTRUT FRAMEWORK WITH S.S. HARDWARE.

3. 2"\(\phi \) ALUMINIZED COATED SCH 40 STEEL POSTS.

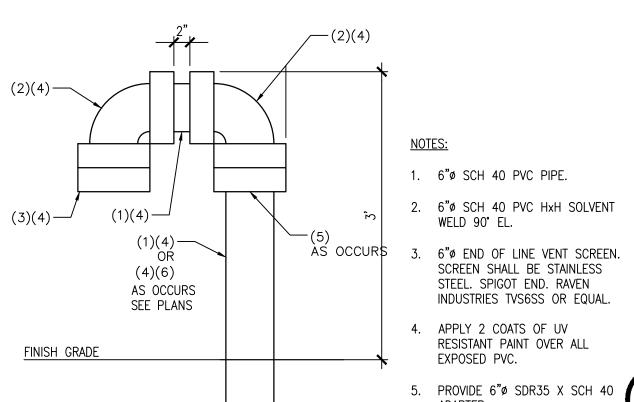
4. CLASS 3000 AIR ENTRAINED CONCRETE.

CONTROL PANEL DETAIL

SCALE: N.T.S.

VENT PIPE SECTION

SCALE: N.T.S.



6. 6"ø SDR35 PVC PIPE.

ADAPTER.

12. LIFT STATION CONTROL PANEL SHALL BE EQUIPPED WITH PUMP STATUS LIGHTS MOUNTED ON ADJACENT UTILITY

13. FORCEMAIN PIPING SHALL BE INSTALLED WITH A MINIMUM OF 4' COVER OUTSIDE OF VAULTS AND ADJACENT PAVED

3. PUMP AND VALVE CHAMBER VAULTS SHALL BE EQUIPPED WITH LOCKING "SAFE—HATCH" ACCESS FRAMES FROM

LADDER LOCATIONS TO PUMPS, VALVES, PIPES, ETC. FROM TOP TO BOTTOM OF STRUCTURE.

XYLEM OR APPROVED EQUAL. SIZING OF ACCESS HATCHES SHALL NOT IMPEDE VAULT INGRESS/EGRESS (SEE

4. PUMP VAULT AND VALVE CHAMBER SHALL BOTH BE EQUIPPED WITH LADDERS. 24" CLEAR SPACE IS REQUIRED AT

PUMP STATION HAS BEEN DESIGNED SUCH THAT ONLY ONE PUMP SHALL OPERATE AT A TIME. PUMPS SHALL

7. PUMPS SHALL BE MOUNTED TO 316 STAINLESS STEEL SLIDE RAIL ASSEMBLIES AND "AUTOCOUPLING" SYSTEM AS

PUMP STATION SHALL BE OUTFITTED WITH GRUNDFOS LEVEL SWITCHES FOR EXPLOSION PROOF PUMPS. LEVEL

9. PUMPS SHALL BE CONTROLLED BY CONTEGRA "STATION MASTER" PUMP CONTROLLER AS RECOMMENDED BY

STROBE. ALARM MONITOR SHALL LOG EACH ALARM DATE AND TIME, AND ALARM DESCRIPTION.

10. IN THE EVENT THAT THE LIQUID LEVEL EXCEEDS "HIGH LEVEL ALARM" ELEVATION OR DROPS BELOW "LOW LEVEL

SWITCHES SHALL BE ATTACHED TO A FLOAT TREE VERTICALLY PER MANUFACTURER RECOMMENDATIONS, SUCH

THAT THEY CAN FLOAT WITHOUT INTERFERENCE FROM THE PUMP STATION WALLS, PIPES, FITTINGS, PUMPS, ETC.

ALARM" ELEVATION, ACTIVATE LOCAL HORN AND STROBE. HORN SHALL HAVE A LOCAL SILENCE BUTTON IN THE

PANEL. IF ANY PUMP IS ENABLED BUT IS NOT PROVING ON A CURRENT SENSOR, ACTIVATE LOCAL HORN AND

11. STATIONMASTER PANEL SHALL HAVE LOCAL HAND-OFF-AUTO SWITCH FOR EACH PUMP TO OVERRIDE COMMANDED

14. SEE ELECTRICAL PLANS FOR PUMP POWER SUPPLY.

STAINLESS STEEL -

12**'**-0"

PIPE SUPPORTS,

BOLT TO SLAB

SLOPE POURED CONCRETE

TYPICAL PUMP STATION NOTES

1. PUMP VAULT SHALL BE WSDOT TYPE 2-96" CATCH BASIN.

2. VALVE CHAMBER SHALL BE OLDCASTLE PRECAST 612-LA VAULT.

NOTE 4) OR REMOVAL OF PUMPS VIA RAIL GUIDES OR OTHER EQUIPMENT.

5. PUMPS 1 AND 2 ARE GRUNDFOS PUMPS PUMPS ARE IDENTIFIED IN STATION TABLES.

ALTERNATE DUTY EACH TIME "PUMP ON" LEVEL SWITCH IS ACTIVATED.

MANUFACTURED BY GRUNDFOS PUMPS FOR THE PUMP MODELS SPECIFIED.

FLOOR 2% MIN.

GRUNDFOS PUMP SUPPLIER.

POSITION IN AN EMERGENCY.

TRELLIS.

- INLET PIPELINE AS OCCURS-SEE PLANS

MOUNT FLOAT TREE WITH STAINLESS

POWER TO PUMP PANEL

STEEL BOLTS IN LOCATION ACCESSIBLE

FROM LADDER. ROUTE CONTROLS AND

SEE PLANS

IE=495.76

(30) STAINLESS STEEL SLIDE

MANUFACTURER'S

REQUIREMENTS

RAIL, INSTALL PER PUMP

MANUFACTURER'S REQUIREMENTS

- GRUNDFOS AUTOCOUPLING SYSTEM, FASTEN

WITH STAINLESS STEEL ANCHOR BOLTS PER

CONCRETE BUOYANCY RING.

BAS AT 12" O.C.

PROVIDE #5 BARS DOUBLED INTO

— 6" SDR35 VENT PIPE

HATCH IN OPEN POSITION

PROVIDE 4" DIA. VAULT DRAIN BETWEEN

- HATCH IN OPEN POSITION

SLOPE POURED FLOOR

(19)—

2'-4"

TO DRAIN (TYP.)

- PROVIDE 25 MIL COAL TAR EPOXY

— VAULT ACCESS AND LADDER

EXTERIOR COATING

RIM ELEV 500.68

PROVIDE 25 MIL COAL TAR

EPOXY EXTERIOR COATING

WET WELL AND VALVE VAULT.

15. LIFT STATION AND VALVE VAULTS SHALL BE EQUIPPED WITH INTERNAL LIGHTS FOR SERVICING AND MAINTENANCE OF THE PUMPS, PIPING, AND VALVES. LIGHT SWITCHES SHALL BE LOCATED ON PUMP PANEL.

PUMP STATION

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OUTLET OVERFLOW

HATCH IN OPEN POSITION

PIPELINE AS OCCURS-SEE PLANS

INLET PIPELINE AS OCCURS-SEE PLANS

CENTERLINE STRUCTURE

PROVIDE COAL TAR EPOXY -

PUMP CONTROL FLOAT TREE -

LOCATION FOR CLARITY, FLOAT

TREE SHALL BE MOUNTED BEHIND

SWITCHES. SHOWN AT THIS

LADDER FOR EASE OF

ACCESS/MAINTENANCE

RIM ELEV 500.43

PROVIDE 25 MIL COAL TAR -

OUTLET OVERFLOW

HIGH LEVEL ALARM ELEV 495.67

PUMP OFF ELEV 489.67

IE=490.13 -

TWO PUMPS ON MAX. FLOW ELEV 494.67

LOW LEVEL ALARM ELEV 488.17

DUPLEX SUBMERSIBLE

PUMPS <u>P-1</u> & <u>P-2</u>

FLOOR ELEV 487.17

PIPE IE=495.67

EPOXY EXTERIOR COATING

HATCH IN OPEN POSITION

INLET PIPELINE AS

OCCURS-SEE PLANS

ATTACH UPPER STAINLESS STEEL -

SLIDE RAIL SUPPORT TO PUMP

STAINLESS -

STEEL LIFT

BOLTS

VAULT LID WITH STAINLESS STEEL

EXTERIOR COATING

⊥∘ two business days before you dig

NOT USED

CIVIL | STRUCTURAL | SURVEY

PHONE: (253) 474-9449 FAX: (253) 474-0153 http://www.sittshill.com/ 18711 | Project Mgr.: VMS | Proj. Drafter: Proj. Engineer:

VOLUME. SEE NOTE #6 SUBSOIL SCARIFIED 4" BELOW COMPOST AMENDED LAYER (12" BELOW SOIL

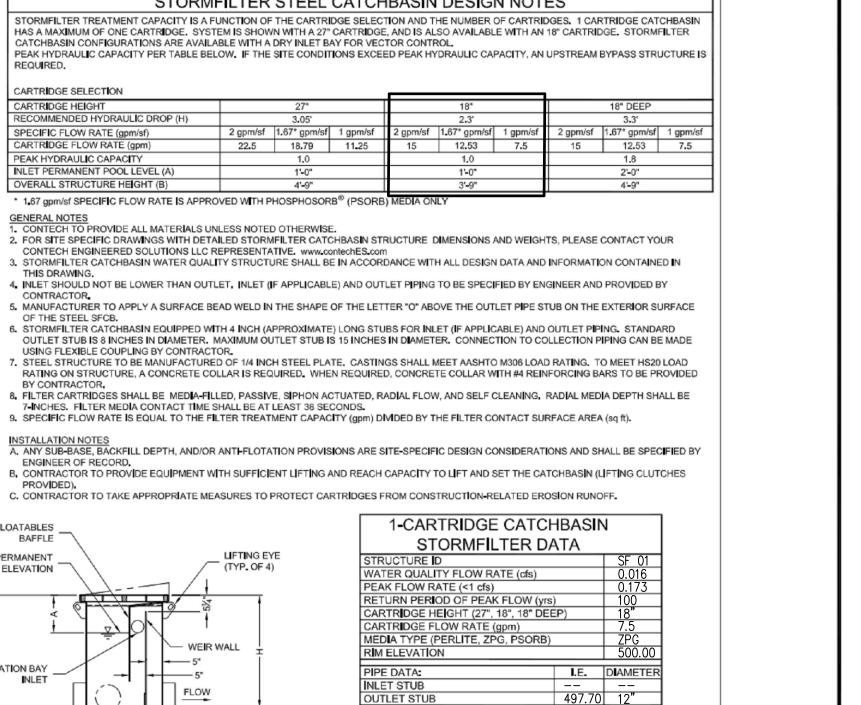
NOTES:

1. ALL SOIL AREAS DISTURBED OR COMPACTED DURING CONSTRUCTION, AND NOT COVERED BY BUILDINGS OR PAVEMENT, SHALL BE AMENDED WITH COMPOST AS DESCRIBED BELOW.

- SUBSOIL SHOULD BE SCARIFIED (LOOSENED) 4 INCHES BELOW AMENDED LAYER, TO PRODUCE 12-INCH DEPTH OF UN-COMPACTED SOIL, EXCEPT WHERE SCARIFICATION WOULD DAMAGE TREE ROOTS OR AS DETERMINED BY THE ENGINEER. SEE NOTE BELOW REGARDING PLANTING STEPS FOR STREET TREES. 3. COMPOST SHALL BE TILLED IN TO 8 INCH DEPTH INTO EXISTING SOIL, OR PLACE 8 INCHES OF COMPOST-AMENDED SOIL, PER SOIL SPECIFICATION.
- 4. PLANTING BEDS SHALL RECEIVE 3 INCHES OF COMPOST TILLED IN TO 8-INCH DEPTH, OR MAY SUBSTITUTE 8" OF IMPORTED SOIL CONTAINING
- 35-40% COMPOST BY VOLUME. MULCH AFTER PLANTING, WITH 4 INCHES OF ARBORIST WOOD CHIP MULCH OR APPROVED EQUAL (6" OF LOOSE WOOD CHIPS AT THE TIME OF PLANTING TO ALLOW SETTLING TO 4").
- SETBACKS: TO PREVENT UNEVEN SETTLING, DO NOT COMPOST-AMEND SOILS WITHIN 3 FEET OF UTILITY INFRASTRUCTURES (POLES, VAULTS,
 METERS ETC.). WITHIN ONE FOOT OF PAVEMENT EDGE, CURBS AND SIDEWALKS SOIL SHOULD BE COMPACTED TO APPROXIMATELY 95% PROCTOR
 TO ENSURE A FIRM SURFACE.
- 6. SEE SECTION 8.2(B) OF THE VMS FOR SOIL AMENDMENT AND INSTRUCTION PROCEDURES FOR STREET TREE PLANTER STRIPS. ALL STREET TREE PLANTER STRIPS SHALL RECEIVE 40% COMPOST AMENDED SOIL TO THE FULL DEPTH OF THE STREET TREE ROOTBALL.



SOIL AMENDMENT AND DEPTH



STORMFILTER STEEL CATCHBASIN DESIGN NOTES

STORMFILTER DATA

INLE

PEAK FLOW RATE (<1 cfs)

CONFIGURATION OUTLET

NOTES/SPECIAL REQUIREMENTS:

1 CARTRIDGE CATCHBASIN

STORMFILTER

STANDARD DETAIL

RETURN PERIOD OF PEAK FLOW (yrs

CARTRIDGE HEIGHT (27", 18", 18" DEEP CARTRIDGE FLOW RATE (gpm)
MEDIA TYPE (PERLITE, ZPG, PSORB)

CARTRIDGE SELECTION

CARTRIDGE FLOW RATE (gpm

NLET PERMANENT POOL LEVEL (A

OVERALL STRUCTURE HEIGHT (B)

1.67 gpm/sf SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MED

CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE, www.contechES.com

7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.

FLOW

LIFTING EYE

(TYP. OF 4)

— OUTLET STUB

OUTLET PIPE FROM FLOWKIT

CATCHBASIN FOOT

(TYP. OF 4)

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.

PEAK HYDRAULIC CAPACITY

OF THE STEEL SFCB.

ENGINEER OF RECORD

PROVIDED).

FLOATABLES BAFFLE

POOL ELEVATION

FILTRATION BAY

INLET STUB

(OPTIONAL)

FINISHED GRADE

USING FLEXIBLE COUPLING BY CONTRACTOR.

INSIDE

OUTŠÍDE

SECTION B-B

GINEERED SOLUTIONS LL

www.contechES.com 9025 Centre Pointe Dr., Sulte 400, West Chester, OH 4506

ECOMMENDED HYDRAULIC DROP (

CARTRIDGE HEIGHT

CONCRETE COLLAR

AND REBAR TO MEET HS20 IF APPLICABLE BY

CONTRACTOR

VANED INLET GRATE (SOLID COVER OPTIONAL)

SLOPED LID

FILTRATION

INLET STUB

BAY INLET

CLEANOUT

ACCESS PLUG

ON WEIR WALL

ACCESS COVER -

STORMFILTER

CARTRIDGE SUPPORT

FLOW KIT

(TYP, OF 4)

CATCHBASIN FOOT

POOL ELEVATION

INSIDE RIM

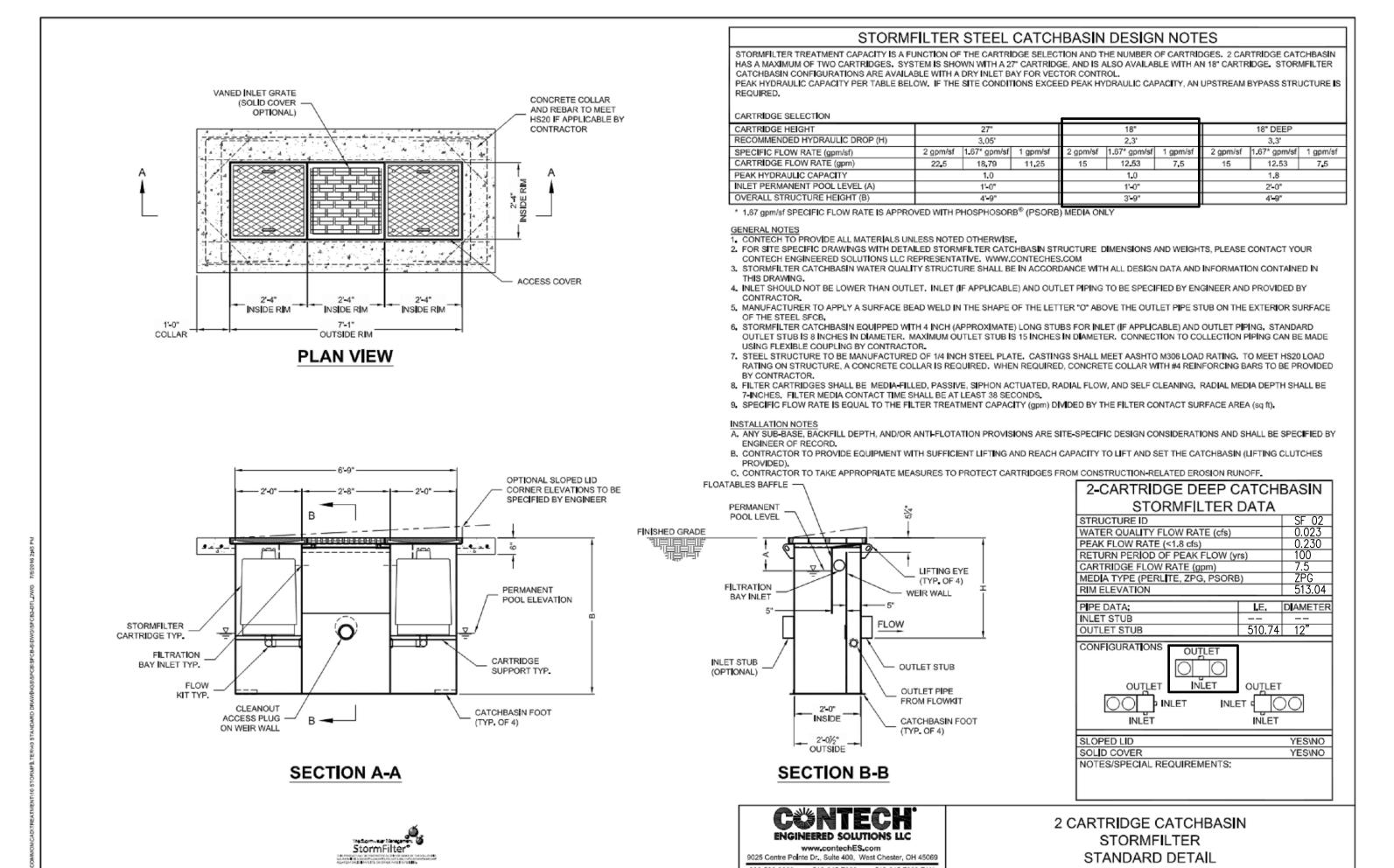
4"-83/4"

OUTSIDE RI

PLAN VIEW

SECTION A-A

SF 01 DETAIL
SCALE: N.T.S.







VMS | Proj. Drafter:

Proj. Engineer:

REVISIONS APPROVED Dencey

CITY OF PUYALLUP

DEVELOPMENT SERVICES

CHANGES TO THESE PLANS AS

DETERMINED BY THE

MANAGER.

ENGINEERING SERVICES

DATE

RMIT SUBMIT

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NAC NO 121-19038 DRAWN VMS

CHECKED RCH

DATE 05/10/2021

GRADING AND DRAINAGE DETAILS

SHEET 22 OF 45

SF 02 DETAIL

5/13/2021 **NOTE**: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL THE CITY WILL NOT BE PE! RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE

NOTE: THIS APPROVAL IS VOID

DATE

RMIT SUBMIT

REVISIONS

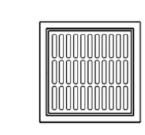
AFTER 180 DAYS FROM APPROVAL

шш

DEVELOPMENT SERVICES 5/13/2021

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.



CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD

ALL PARTS AND INTERNAL ASSEMBLY PROVIDED BY CONTECH UNLESS NOTED OTHERWISE

* 1.67 gpm/sf [1.13 L/s/m²] SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY

A LEFT INLET (AS SHOWN) OR A RIGHT INLET CONFIGURATION

CARTRIDGE SIZE (in. [mm])

HEIGHT OF WEIR (W) (ft. [mm])

SPECIFIC FLOW RATE (gpm/sf [L/s/m2])

CARTRIDGE FLOW RATE (gpm [L/s])

RECOMMENDED HYDRAULIC DROP (H) (ft. [mm])

FRAME AND GRATE (24" SQUARE)



SITE SPECIFIC DATA REQUIREMENTS STRUCTURE ID WATER QUALITY FLOW RATE (cfs [L/s]) PEAK FLOW RATE (cfs [L/s]) RETURN PERIOD OF PEAK FLOW (yrs) CARTRIDGE FLOW RATE CARTRIDGE SIZE (27, 18, LOW DROP (LD)) MEDIA TYPE (PERLITE, ZPG, PSORB) NUMBER OF CARTRIDGES REQUIRED INLET BAY RIM ELEVATION ILTER BAY RIM ELEVATION 506.01 CPP INLET PIPE 1 OUTLET PIPE NOTES/SPECIAL REQUIREMENTS:

2.25 [686]

22.5 [1.42] 18.79 [1.19] 11.25 [0.71] 15 [0.95] 12.53 [0.79] 7.5 [0.47] 10 [0.63] 8.35 [0.53] 5 [0.32]

LOW DROP

1.8 [549]

1.75 [533]

FRAME AND COVER (30" ROUND) (NOT TO SCALE)

PERFORMANCE SPECIFICATION
FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7" [178]. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 37 SECONDS. SPECIFIC FLOW RATE SHALL BE 2 GPM/SF [1.36 L/s/m²] (MAXIMUM). SPECIFIC FLOW RATE IS THE MEASURE OF THE FLOW (GPM) DIVIDED BY THE MEDIA SURFACE CONTACT AREA (SF). MEDIA VOLUMETRIC FLOW RATE SHALL BE 6 GPM/CF [13.39 L/s/m3] OF MEDIA (MAXIMUM).

STORMFILTER DESIGN NOTES

STORMFILTER TREATMENT CAPACITY VARIES BY CARTRIDGE COUNT AND LOCALLY APPROVED SURFACE AREA SPECIFIC FLOW RATE. PEAK

3.00 [914]

A 6' x 8' [1829 x 2438] PEAK DIVERSION STYLE STORMFILTER IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (8) AND IS AVAILABLE IN

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.

. ALTERNATE DIMENSIONS ARE IN MILLIMETERS [mm] UNLESS NOTED OTHERWISE 4. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH

REPRESENTATIVE. www.ContechES.com

5. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.

6. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0" - 10" [3048] AND GROUNDWATER ELEVATION AT, OR

BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.

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 STORMFILTER STRUCTURE. C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL SECTIONS AND ASSEMBLE STRUCTURE.

STORMFILTER DESIGN NOTES STORMFILTER TREATMENTCAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE

Ø60" MANHOLE STORMFILTER PEAK HYDRAULIC CAPACITY IS 1.0 CFS. IF THE SITE CONDITIONS EXCEED 1.0 CFS AN UPSTREAM BYPASS STRUCTURE

STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (4). VOLUME SYSTEM IS ALSO AVAILABLE WITH MAXIMUM 4 CARTRIDGES.

. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH OUTLET PIPE INVERT WITH OUTLET BAY FLOOR. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

CONTRACTOR TO REMOVE THE TRANSFER OPENING COVER WHEN THE SYSTEM IS BROUGHT ONLINE.

www.ContechES.com 025 Centre Pointe Dr., Suite 400, West Chester, OH 45069

S REQUIRED.

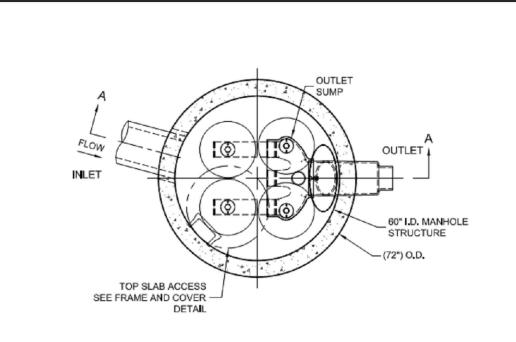
CARTRIDGE SELECTION CARTRIDGE HEIGHT

SPECIFIC FLOW RATE (gpm/sf)
CARTRIDGE FLOW RATE (gpm

RECOMMENDED HYDRAULIC DROP (H

SFPD0608 (6' x 8') PEAK DIVERSION STORMFILTER STANDARD DETAIL

SF 03 DETAIL
SCALE: N.T.S.



PLAN VIEW

FLOWKIT: 41A

STORMFILTER.

CARTRIDGE

SECTION A-A

StormFilter*

FLOATABLES

- HDPE OUTLET RISER

- OUTLET SUMP

STORMFILTER ACTIVATION

FILTRATION BAY

CARTRIDGE

HOLE AND

COVER

- (8'-0" [2438]) ·

PLAN

FLOW KIT

STORMFILTER

ELEVATION

THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWIN: U.S. PATENTS: 5,322,629, 5,524,576; 5,767,527; 5,965,157; 6,027,639; 6,649,048 RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

INLET BAY -

FRAME AND

LOCATION

ALTERNATE PIPE LOCATION

OUTLET BAY -

FRAME AND COVER

SEPARATION

INLET PIPE -

WEIR WALL -

OUTLET PIPE -

CONTRACTOR TO GROUT TO

FINISHED GRADE

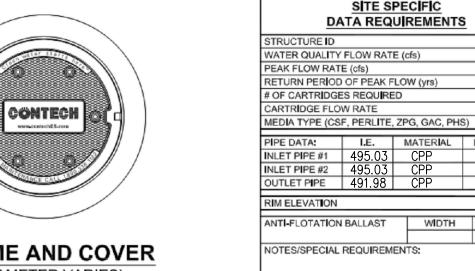
RING/RISERS

INLET PIPE -

(TYP OF 3)

OUTLET

COVER -



FRAME AND COVER (DIAMETER VARIES)

3. FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS

OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO

6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL

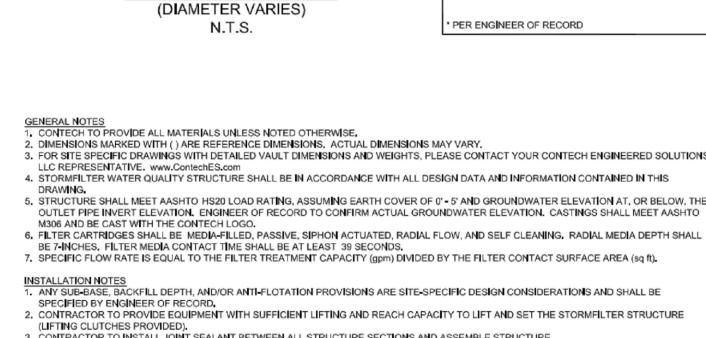
SPECIFIED BY ENGINEER OF RECORD.

3. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE. 4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET PIPE(S).

5. CONTRACTOR TO PROVIDE AND INSTALL CONNECTOR TO THE OUTLET RISER STUB. STORMFILTER EQUIPPED WITH A DUAL DIAMETER HDPE OUTLET STUB AND SAND COLLAR. IF OUTLET PIPE IS LARGER THAN 8 INCHES, CONTRACTOR TO REMOVE THE 8 INCH OUTLET STUB AT MOLDED IN CUT LINE. COUPLING BY FERNCO OR EQUAL AND PROVIDED BY CONTRACTOR.

6. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

ENGINEERED SOLUTIONS LLC www.ContechES.com 9025 Centre Pointe Dr., Sulte 400, West Chester, OH 45069



CONTECH

SFMH60 STORMFILTER STANDARD DETAIL

HEIGHT





Proj. Engineer:

18711 | Project Mgr.:

VMS | Proj. Drafter:

nacarchitecture.com

2021 1ST AVENUE

SEATTLE WA 98121 P:206.441.4522

NAC NO 121-19038

DATE 05/10/2021

GRADING AND

DRAINAGE DETAILS

DRAWN VMS

CHECKED RCH

SF 04 DETAIL

FERRU

nacarchitecture.com

2021 1ST AVENUE SEATTLE WA 98121

NAC NO 121-19038

DATE 05/10/2021

DRAWN VMS

CHECKED RCH

GRADING

ENLARGEMENTS

SHEET 24 OF 45

APPROVED

CITY OF PUYALLUP DEVELOPMENT SERVICES DATE 5/13/2021

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

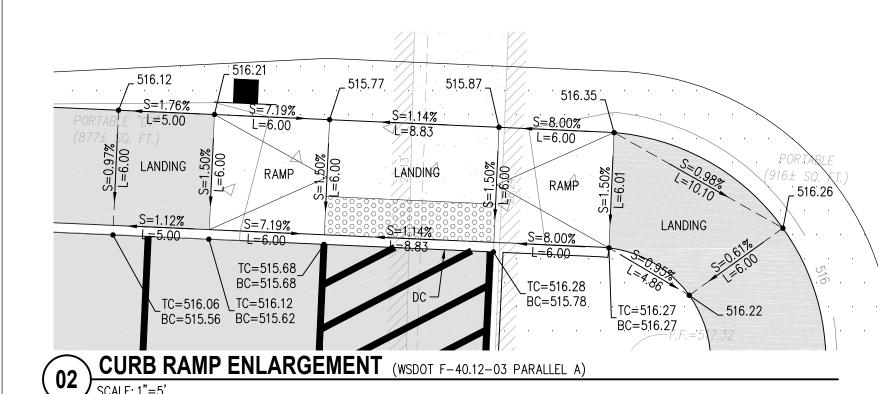
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

CURB RAMP ENLARGEMENT (WSDOT F-40.12-03 PARALLEL A)

SCALE: 1"=5'

TC=517.31 TC=516.78 BC=516.81 BC=516.78

517.20 ∟



RAMP

/ RAMP

TC=516.79

BC=516.79

TC=516.83

BC=516.83

BC=516.90

TC=516.77

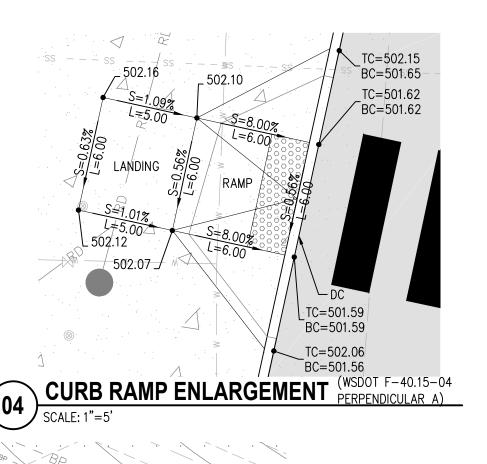
ГВC=516.77

TC=502.22 BC=501.72 L=5.00 L 502.38 502.32 🟒 TC=501.84 BC=501.84 TC=502.22 BC=501.72 CURB RAMP ENLARGEMENT (WSDOT F-40.15-04 PERPENDICULAR A) / SCALE: 1"=5"

TC=516.73 / BC=516.23

TC=516.77

BC=516.27

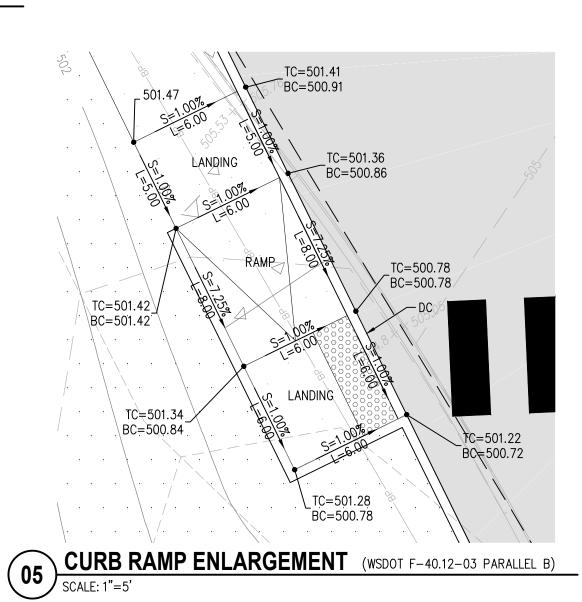


TC=514.59 BC=514.59

BC=514.18

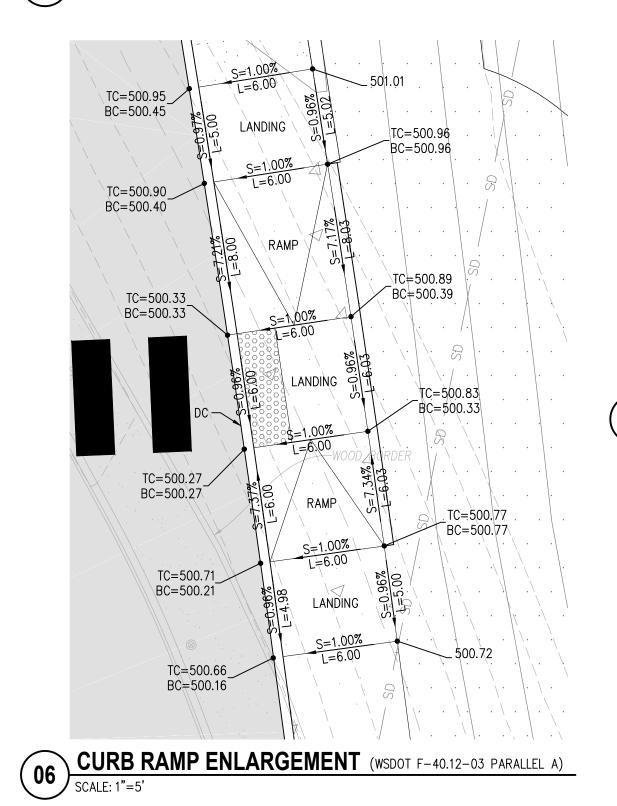
TC=515.77 BC=515.27

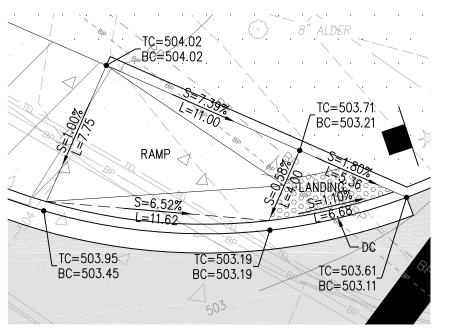
BC=515.29

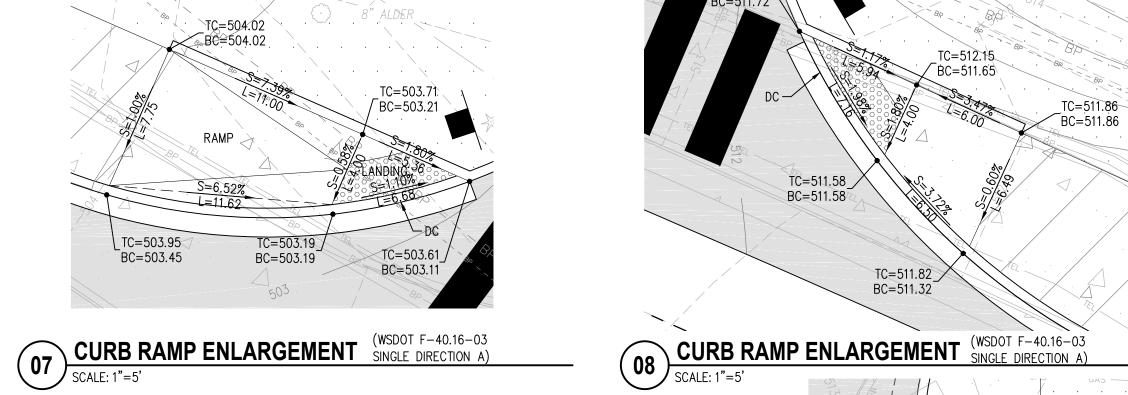


CURB RAMP NOTES

- CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF PUYALLUP STANDARDS, INDICATED WSDOT STANDARDS, AND CURRENT ADA REGULATIONS. IF THERE IS A CONFLICT BETWEEN CITY STANDARDS AND THE ADA REGULATIONS, THE ADA REGULATIONS SHALL TAKE PRECEDENCE OVER THE CITY'S REQUIREMENTS. SEE DETAIL 06/C3.05.
- TC = TOP OF CURBBC = BOTTOM OF CURBDC = DEPRESSED CURB





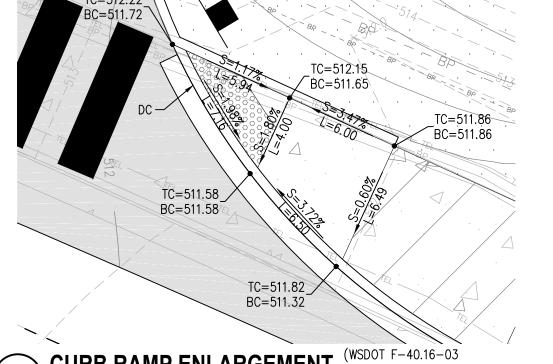


TC=517.03 BC=516.53

TC=517.09 BC=516.59

TC=516.07_ BC=515.57

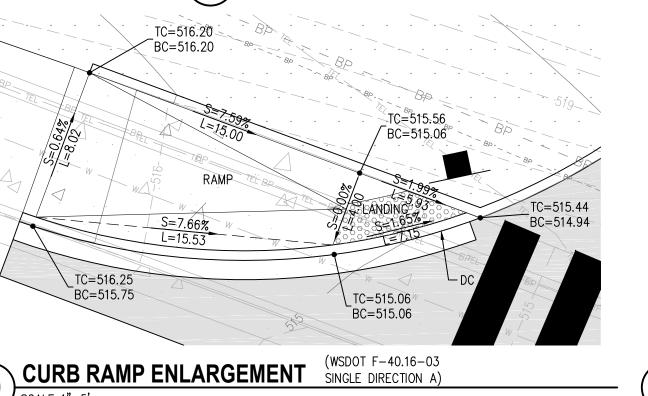
_TC=516.13 BC=515.63

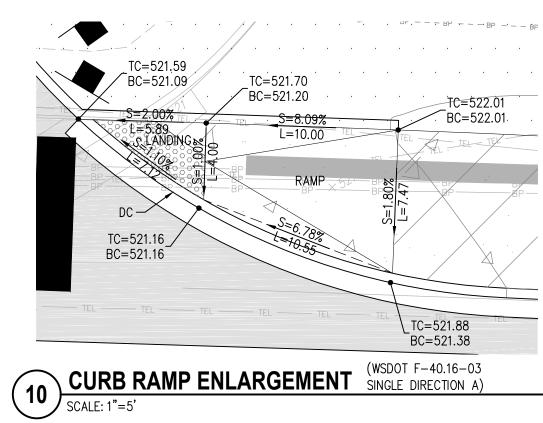


TC=514.40 BC=513.90

TC=514.48 BC=513.98

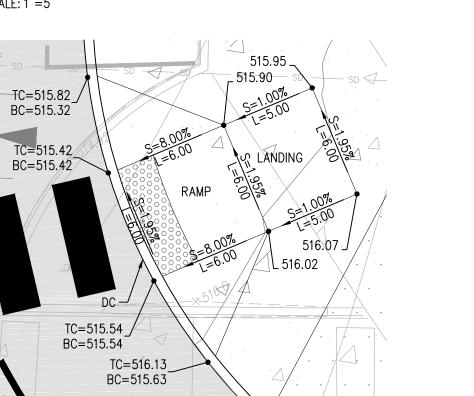
TC=514.07 BC=514.07 DC





CURB RAMP ENLARGEMENT (WSDOT F-40.16-03 SINGLE DIRECTION A)

SCALE: 1"=5'





HORIZONTAL SCALE: 1"=5'

TC=520.80 BC=520.30 TC=520.89 BC=520.39 TC=521.02_ BC=521.02 _TC=520.58 BC=520.08 TC=520.19 BC=520.19 TC=520.28 BC=520.28 _TC=521.00 / BC=520.50

CURB RAMP ENLARGEMENT (WSDOT F-40.12-03 PARALLEL A)
SCALE: 1"=5'

TC=514.17_ BC=514.17 TC=514,78 BC=514.28 TC=514.80_/ BC=514.30 TC≐514:90 BC=514.90 TC=514.88_ BC=514.38 CURB RAMP ENLARGEMENT (WSDOT F-40.12-03 PARALLEL A)

SCALE: 1"=5'

CURB RAMP ENLARGEMENT (WSDOT F-40.15-04 PERPENDICULAR A)

Call 811 two business days before you dig



18711 | Project Mgr.: Proj. Engineer:

CITY OF PUYALLUP DEVELOPMENT SERVICES DATE____5/13/2021

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

COMMONS ADDITION BUILDING PAD PLAN VIEW SCALE: 1"=10'

↑ COMMONS ADDITION BUILDING PAD SECTION

SCALE: H: 1"=10' V: 1"=5'



1+20 1+24

LEGEND

UNCLASSIFIED EXCAVATION IMPORT STRUCTURAL FILL SUBBASE

EARTHWORK SECTION KEY NOTES

1 EXISTING GRADE.

2 EXISTING GRADE MINUS 6" STRIPPING OR DEPTH.

3 PROPOSED FINISH GRADE. SURFACING SECTION PER PLAN.

4 SLAB, FOOTINGS AND STEM WALLS PER STRUCTURAL.

5 PROVIDE CAPILLARY BREAK PER DETAIL 01/C3.12.

6 REMOVE EXISTING FILL SOILS TO SUBBASE SUBGRADE.

7 SUBBASE SUBGRADE OR EXISTING FILL/OUTWASH CONTACT LAYER. EXISTING FILL SOILS LOCATED BENEATH NEW SLABS AND FOOTINGS SHALL BE EXCAVATED AND BACKFILLED WITH IMPORT STRUCTURAL FILL. STRUCTURAL FILL IN HORIZONTAL LIFTS NOT TO EXCEED 8 INCHES IN LOOSE THICKNESS. EACH LIFT SHALL BE COMPACTED TO AT LEAST 95% BASED ON THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. EXACT DEPTH OF EXCAVATION AND BACKFILL SHALL BE DETERMINED BY GEOTECHNICAL ENGINEER.

8 COORDINATE BUILDING PAD EARTHWORK REQUIREMENTS WITH DETAIL 01/C3.12.



EXISTING BUILDING F.F.E. = 513.73

COMMONS BUILDING ADDITION F.F.E. = 513.73

HORIZONTAL SCALE: 1"=10' VERTICAL SCALE: 1"=5'

0+90

PROPOSED ADDITION F.F.E. = 513.73

0 + 70





http://www.sittshill.com/ 18711 Project Mgr.: roject No.: Proj. Engineer: VMS | Proj. Drafter:

SHEET 25 OF 45

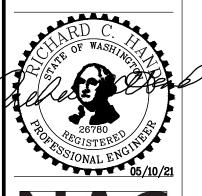
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30-03-19 DDITI

REVISIONS

PERMIT RESUBMITT

FERRU 3213 WILDWOOD P



nacarchitecture.com 2021 1ST AVENUE SEATTLE WA 98121 P:206.441.4522

NAC NO 121-19038

DRAWN VMS CHECKED RCH

DATE 05/10/2021

SITE SECTIONS

30-03-19 DDITI

APPROVED Denkly CITY OF PUYALLUP

DEVELOPMENT SERVICES DATE___ 5/13/2021

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

EARTHWORK SECTION KEY NOTES

1 EXISTING GRADE.

LEGEND

2 EXISTING GRADE MINUS 6" STRIPPING OR DEPTH.

3 PROPOSED FINISH GRADE. SURFACING SECTION PER PLAN.

UNCLASSIFIED EXCAVATION

IMPORT STRUCTURAL FILL SUBBASE

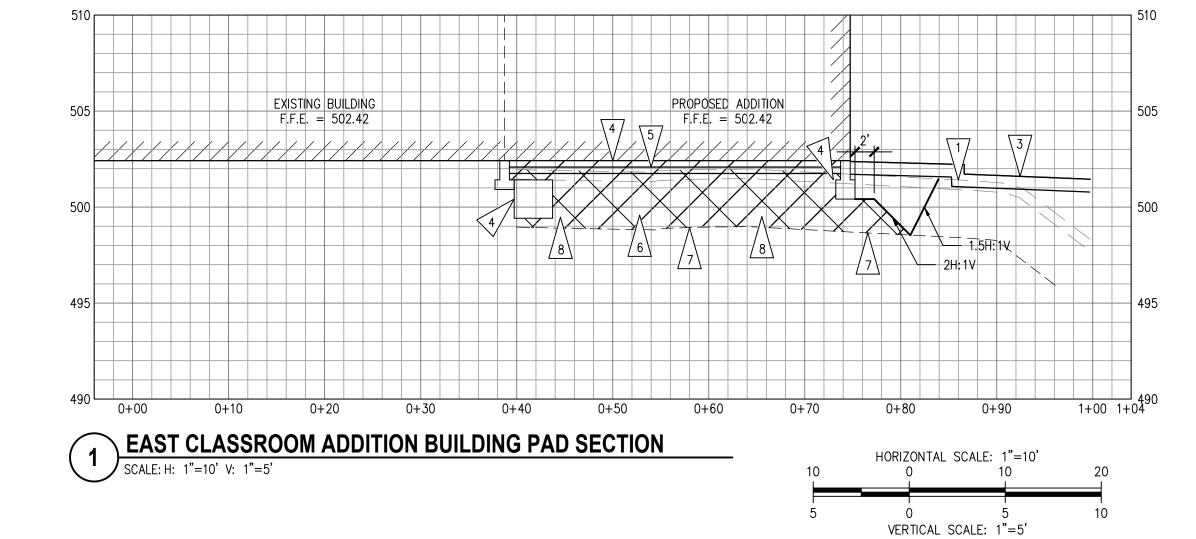
4 SLAB, FOOTINGS AND STEM WALLS PER STRUCTURAL.

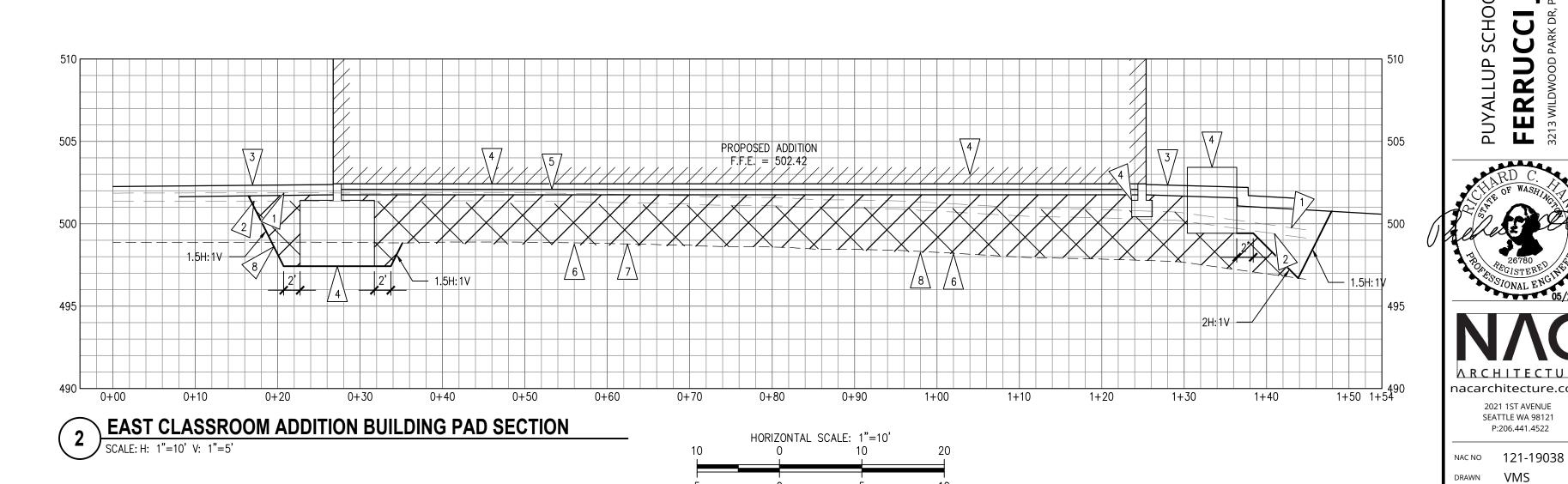
5 PROVIDE CAPILLARY BREAK PER DETAIL 01/C3.12.

6 REMOVE EXISTING FILL SOILS TO SUBBASE SUBGRADE.

SUBBASE SUBGRADE OR EXISTING FILL/OUTWASH CONTACT LAYER. PROVIDE IMPORT STRUCTURAL FILL IN HORIZONTAL LIFTS NOT TO EXCEED 8 INCHES IN LOOSE THICKNESS BEARING ON SUBBASE SUBGRADE AND PAD SUBGRADE. EACH LIFT SHALL BE COMPACTED TO AT LEAST 95% BASED ON THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. EXACT DEPTH OF EXCAVATION AND BACKFILL SHALL BE DETERMINED BY GEOTECHNICAL ENGINEER.

COORDINATE BUILDING PAD EARTHWORK REQUIREMENTS WITH 8 DETAIL 01/C3.12.





VERTICAL SCALE: 1"=5'

EAST CLASSROOM ADDITION BUILDING PAD PLAN VIEW

13 13.)

EAST CLASSROOM **BUILDING ADDITION** F.F.E. = 502.42

EXISTING BUILDING F.F.E. = 502.42







SITE SECTIONS

SHEET 26 OF 45

2021 1ST AVENUE SEATTLE WA 98121

CHECKED RCH

DATE 05/10/2021

30-03-19 DDITI

FERRU 3213 WILDWOOD F

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NAC NO 121-19038

DATE 05/10/2021

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REVISIONS

DATE____5/13/2021 **NOTE**: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

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OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

LEGEND

UNCLASSIFIED EXCAVATION DEPTH VARIES

EXISTING SOILS TO REMAIN

SUBBASE PROVIDE IMPORT STRUCTURAL FILL

SUBBASE SUBGRADE OR EXISTING RECESSIONAL OUTWASH PROVIDE FIRM UNYIELDING SUBBASE SUBGRADE. OBTAIN GEOTECHNICAL APPROVAL PRIOR TO SUBBASE SUBBASE SUBGRADE OR EXISTING RECESSIONAL OUTWASH INSTALLATION. LAYER. PROVIDE FIRM UNYIELDING SUBBASE SUBGRADE. OBTAIN GEOTECHNICAL APPROVAL PRIOR TO SUBBASE INSTALLATION.

EXISTING SURFACE

FINISH FLOOR ELEVATION

/ SLAB SECTION

EXISTING FILL MATERIAL. DEPTH VARIES.

FOOTING AS OCCURS

SEE STRUCTURAL PLANS

SLAB PER STRUCTURAL

4" CAPILLARY BREAK MATERIAL

- FOOTING AS OCCURS SEE STRUCTURAL PLANS

BULDING PAD EARTHWORK SECTION

/ PASS PROOF ROLL TEST

LEGEND

UNCLASSIFIED EXCAVATION DEPTH VARIES

EXISTING SOILS TO REMAIN

CSBC - WINTER SURFACING

SUBBASE PROVIDE IMPORT STRUCTURAL FILL. COMPACT TO 95% DENSITY AND PASS PROOF TEST AT PAVEMENT SUBGRADE

COMPACT EXISTING 2' OF EXISTING SOILS TO 95% MAXIMUM DENSITY AND PASS PROOF TEST QUARRY SPALLS

/ PASS PROOF ROLL TEST / PAVEMENT SUBGRADE - EXISTING SURFACE - DEMO OR STRIP SUBGRADE FINISH GRADE PAVEMENT SUBGRADE / PASS PROOF ROLL TEST 6" CSBC WINTER SUBBASE SUBBASE DEPTH VARIES 12" DEPTH QUARRY SPALLS SUBBASE SUBGRADE - PROVIDE FIRM UNYIELDING SUBGRADE. - WOVEN GEOTEXTILE STABILIZATION FABRIC OBTAIN GEOTECHNICAL APPROVAL PRIOR TO FILL INSTALLATION.

PAVEMENT EARTHWORK SECTION

SCALE: N.T.S.



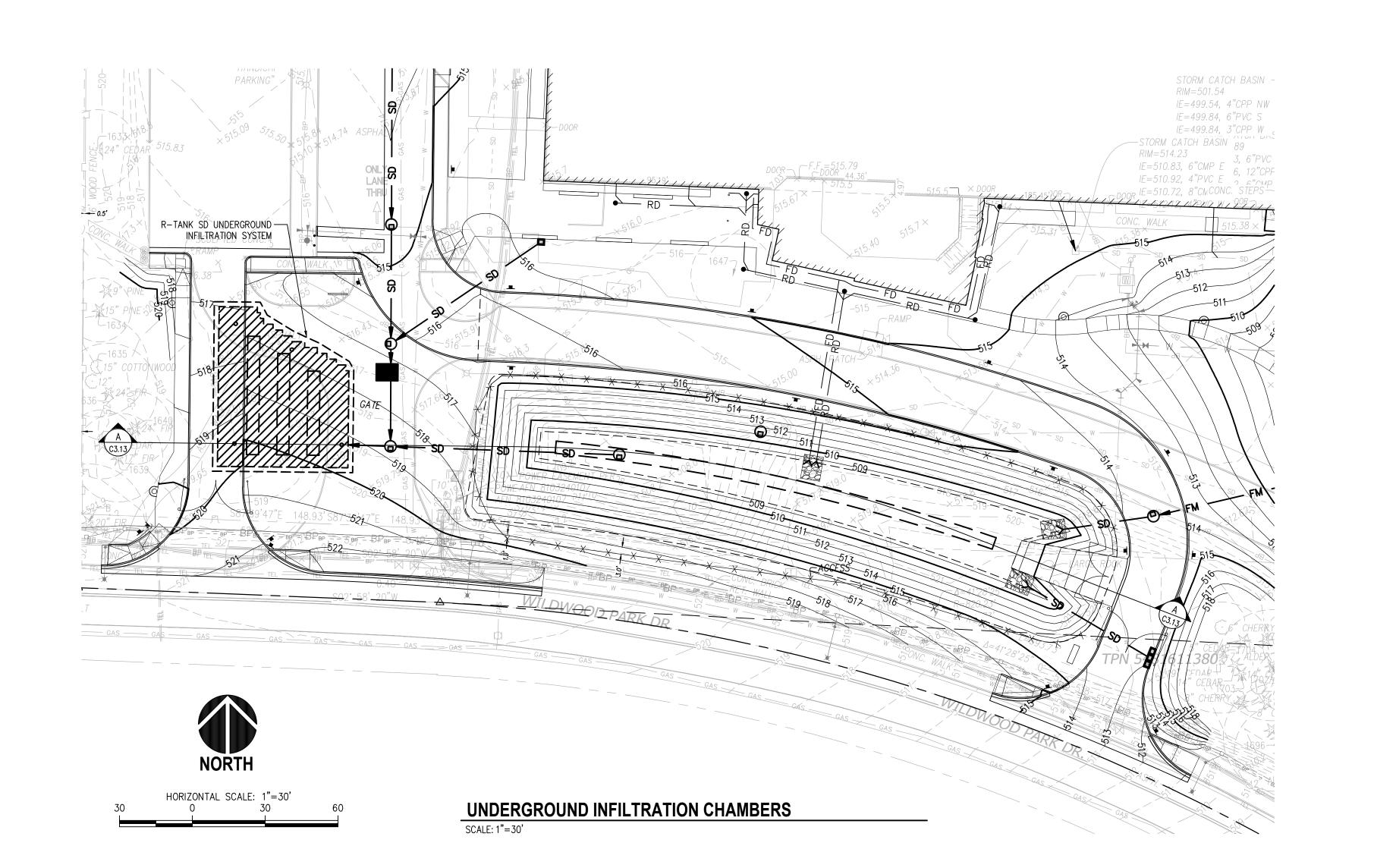


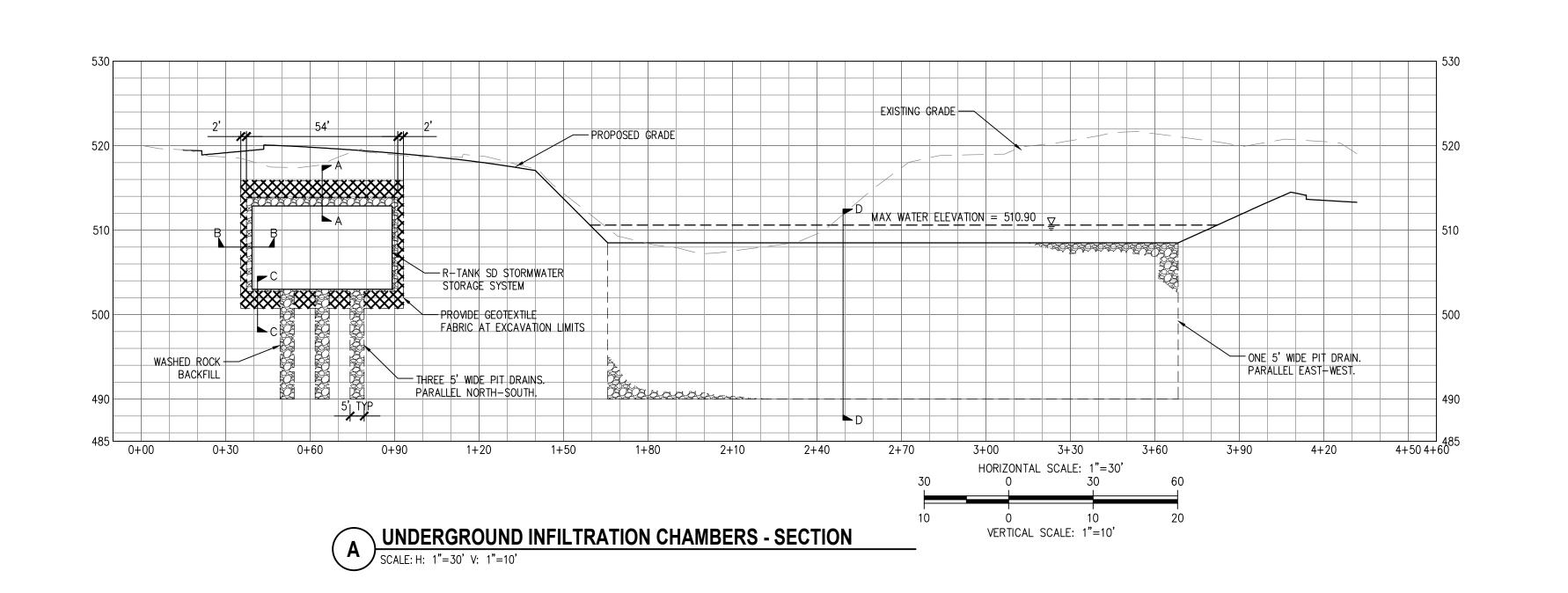
Proj. Engineer: VMS | Proj. Drafter:

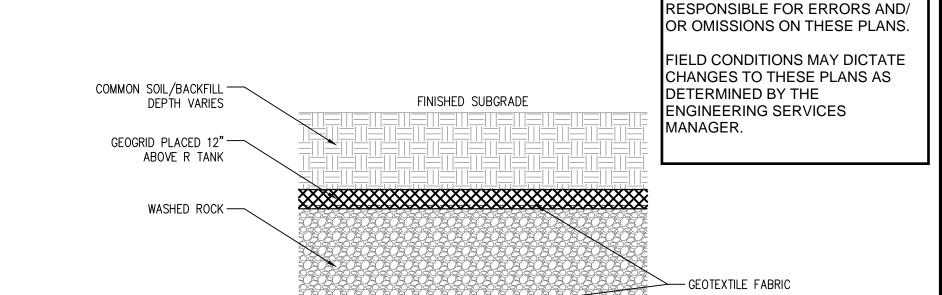
18711 Project Mgr.:

SITE SECTIONS

SHEET 27 OF 45

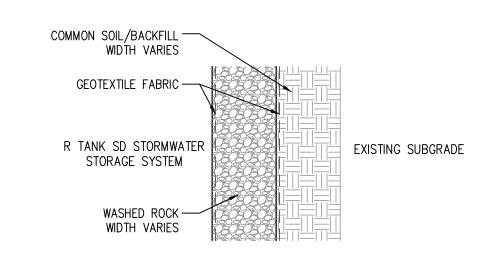




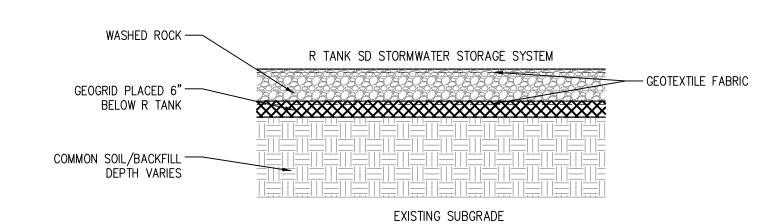


SECTION A-A

R TANK SD STORMWATER STORAGE SYSTEM



SECTION B-B



		EXISTING SUDGITABLE
TABLE 1 -	FILTER SAND	SECTION C-C
U.S. SIEVE NUMBER	PERCENT PASSING	$\frac{3CCHONC-C}{2}$
#4	95–100	
#8	70–100	
# 16	40-90	
#30	25-75	
# 50	2-25	
#100	<2	POND BOTTOM WIDTH VARIES
#200	<1	VARIES +
AGGF 12" MIN. 12" M	TION POND PIT DRAIN (REGATE PER SECTION 3). FILTER SAND. SEE TAI	12323 BLE 1. 506.5
	4X8 SAND	WASHED ROCK
U.S. SIEVE NUMBER	PERCENT PASSING	HAR KAR
3/8"	100	
#4	90–100	490
#8	0–10	

0-5

0-0.5

0 - 0.5

#200 (WET SIEVE)



SECTION D-D



Proj. Engineer:

REVISIONS

APPROVED

CITY OF PUYALLUP DEVELOPMENT SERVICES

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

DATE__ 5/13/2021

THE CITY WILL NOT BE

PERMIT RESUBMIT

30-03-19 DDITI FERRUCCI JUNIOR
3213 WILDWOOD PARK DR, PUYALLUP, WA 98374

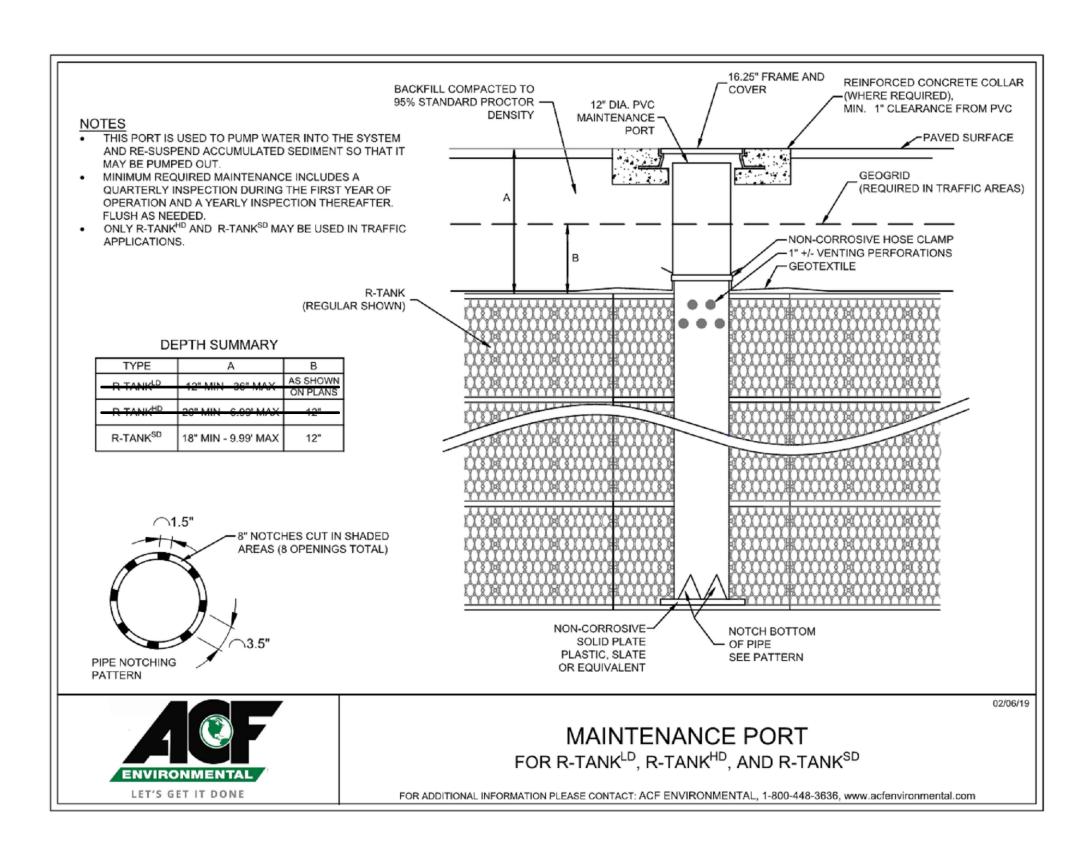
nacarchitecture.com 2021 1ST AVENUE SEATTLE WA 98121 P:206.441.4522 NAC NO 121-19038 DRAWN VMS

CHECKED RCH

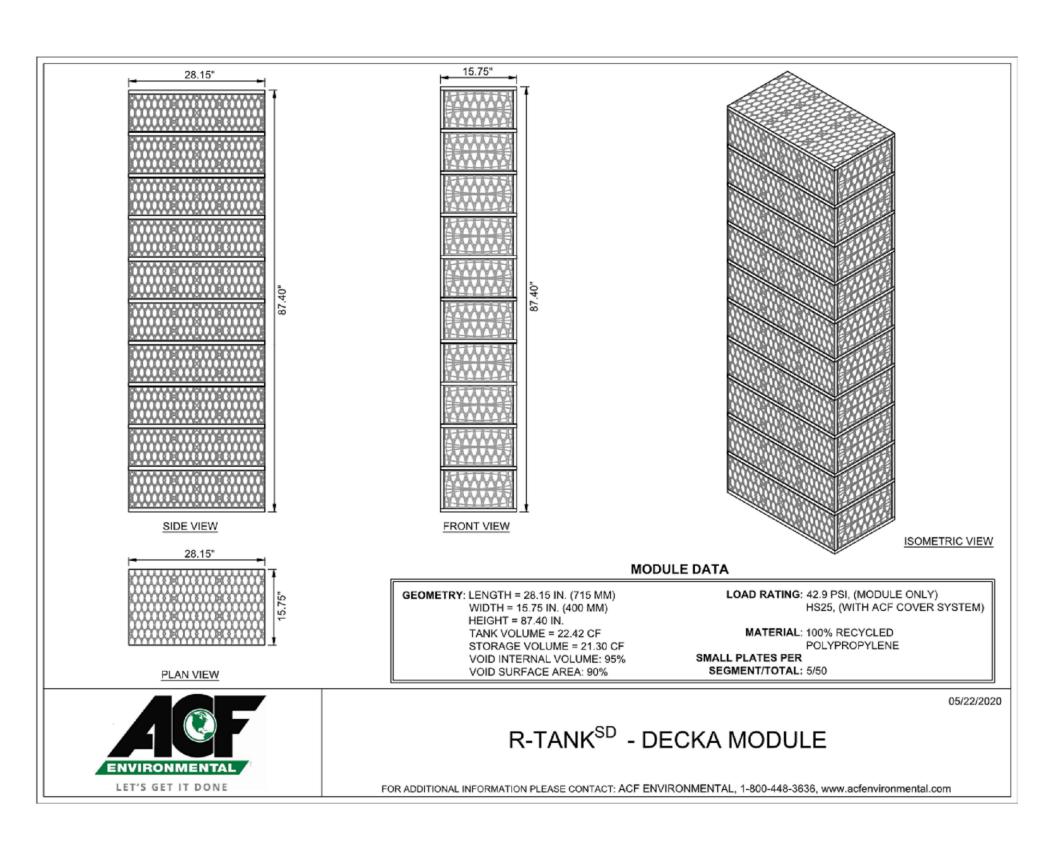
DATE 05/10/2021

SITE SECTIONS

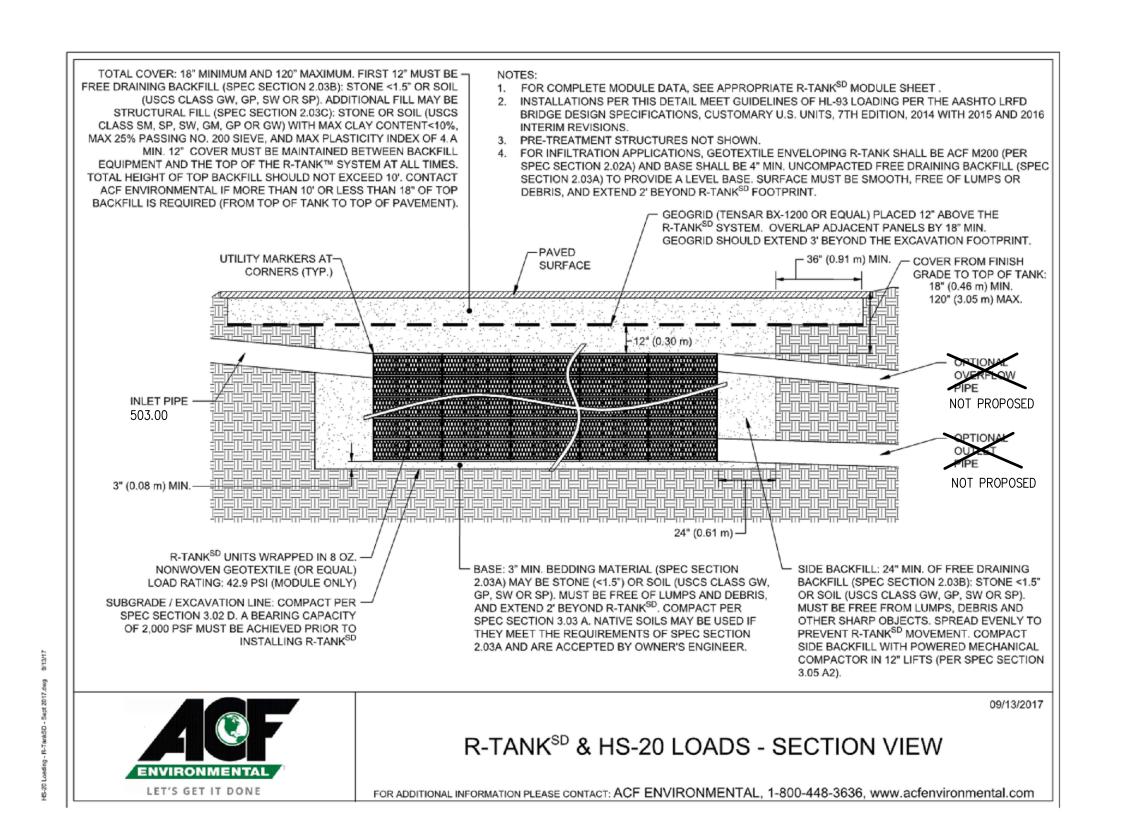
SHEET 28 OF 45







R-TANK MODULE
SCALE: N.T.S.



R-TANK SECTION





Proj. Engineer:



18711 | Project Mgr.:

6/23/2020 5:24:26 PM D:_Revit\FerrucciJHAdd -DD - R20_aramirez.rvt

REVISIONS

PERMIT RESUBMIT

APPROVED CITY OF PUYALLUP DEVELOPMENT SERVICES DATE____ 5/13/2021

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

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FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

DDITI

nacarchitecture.com 2021 1ST AVENUE

SEATTLE WA 98121 P:206.441.4522 NAC NO 121-19038

DRAWN VMS CHECKED RCH

DATE 05/10/2021

UNDERGROUND INFILTRATION DETAILS

SHEET 29 OF 45

PERMIT RESUBMITT

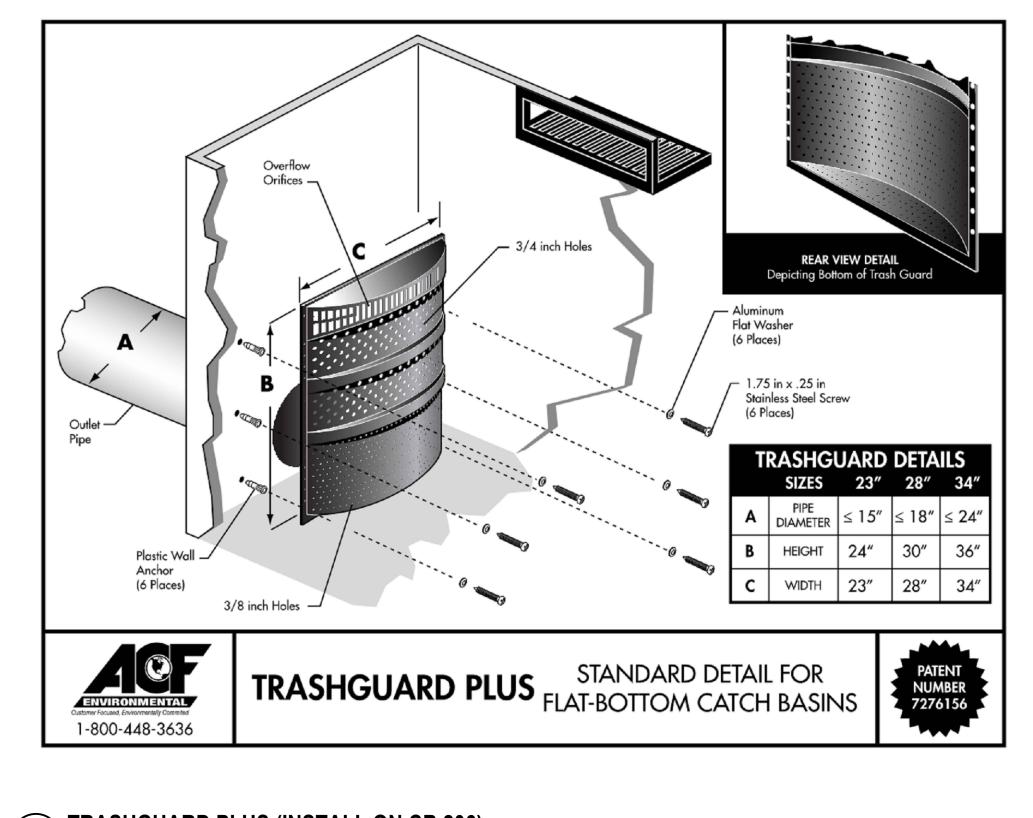
REVISIONS

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

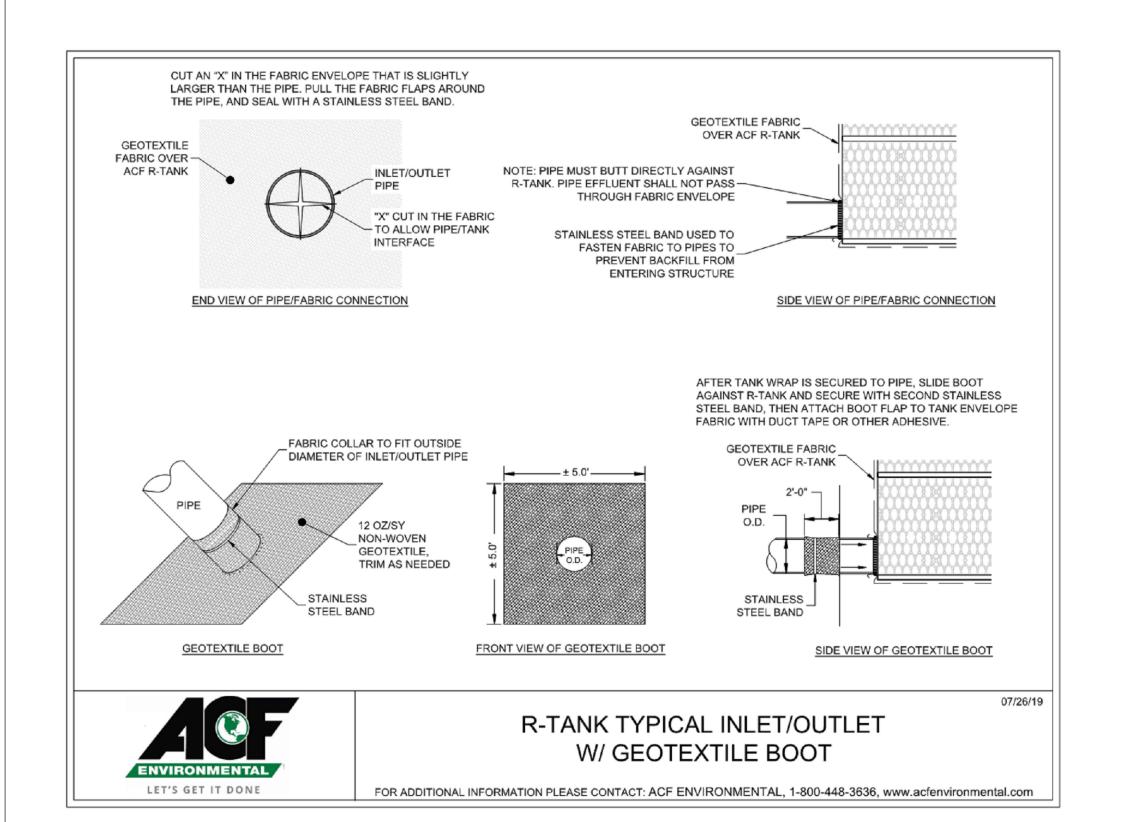
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

1. FOLLOWING PLACEMENT OF SIDE BACKFILL, A UNIFORM 12" LIFT OF THE FREELY DRAINING MATERIAL (SPEC DUMP TRUCKS AND PANS SHALL SECTION 2.03 B) SHALL BE PLACED OVER THE R-TANK AND LIGHTLY COMPACTED USING A WALK-BEHIND NOT OPERATE OVER THE -TRENCH ROLLER. ALTERNATELY, A ROLLER (MAXIMUM GROSS VEHICLE WEIGHT OF 6 TONS) MAY BE USED. SYSTEM EXCAVATION AREA ROLLER MUST REMAIN IN STATIC MODE UNTIL A MINIMUM OF 24" OF COVER HAS BEEN PLACED OVER THE BACKFILL MATERIAL UNLOADED OUTSIDE MODULES. SHEEP FOOT ROLLERS SHOULD NOT BE USED. SPEC SECTION 3.05 A OF THE SYSTEM EXCAVATION AREA ONLY LOW PRESSURE TIRE OR TRACK VEHICLES (LESS THAN 7 PSI AND OPERATING WEIGHT OF LESS THAN 20,000 LBS) SHALL BE OPERATED OVER THE R-TANK SYSTEM DURING CONSTRUCTION. SPEC SECTION 3.05 B DUMP TRUCKS AND PANS SHALL NOT BE OPERATED WITHIN THE R-TANK SYSTEM AT ANY TIME. WHERE NECESSARY, THE HEAVY EQUIPMENT SHOULD UNLOAD IN AN AREA ADJACENT TO THE R-TANK SYSTEM AND THE MATERIAL SHOULD BE MOVED OVER THE SYSTEM WITH TRACKED EQUIPMENT. SPEC SECTION 3.05 B ENSURE THAT ALL UNRELATED CONSTRUCTION TRAFFIC IS KEPT AWAY FROM THE LIMITS OF EXCAVATION UNTIL THE PROJECT IS COMPLETE AND FINAL SURFACE MATERIALS ARE IN PLACE. NO NON-INSTALLATION RELATED LOADING SHOULD BE ALLOWED OVER THE R-TANK SYSTEM UNTIL THE FINAL DESIGN SECTION HAS BEEN CONSTRUCTED (INCLUDING PAVEMENT). SPEC SECTION 3.05 C 5. SEE R-TANK INSTALLATION GUIDE OR CONTACT YOUR LOCAL ACF REPRESENTATIVE FOR ADDITIONAL DUMP TRUCK DETAIL (SEE NOTE 3) SMOOTH DRUM ROLLER VIBRATORY MODE (6 TON MAX, SEE NOTE 1) LOW GROUND PRESSURE DOZER (10 TON MAX, SEE NOTE 2) SMOOTH DRUM ROLLER STATIC MODE -(6 TON MAX, SEE NOTE 1) **GEOGRID** 24" MIN. COVER REINFORCEMENT LAYER (TENSAR (SEE NOTE 1) BX-1200 OR EQUAL) 12" MIN. COVER (SEE NOTES 1 & 2) 0000#0000038000000860000#00000800630000#000018000209













Proj. Engineer:

18711 | Project Mgr.:

VMS | Proj. Drafter:

UNDERGROUND INFILTRATION DETAILS

SHEET 30 OF 45

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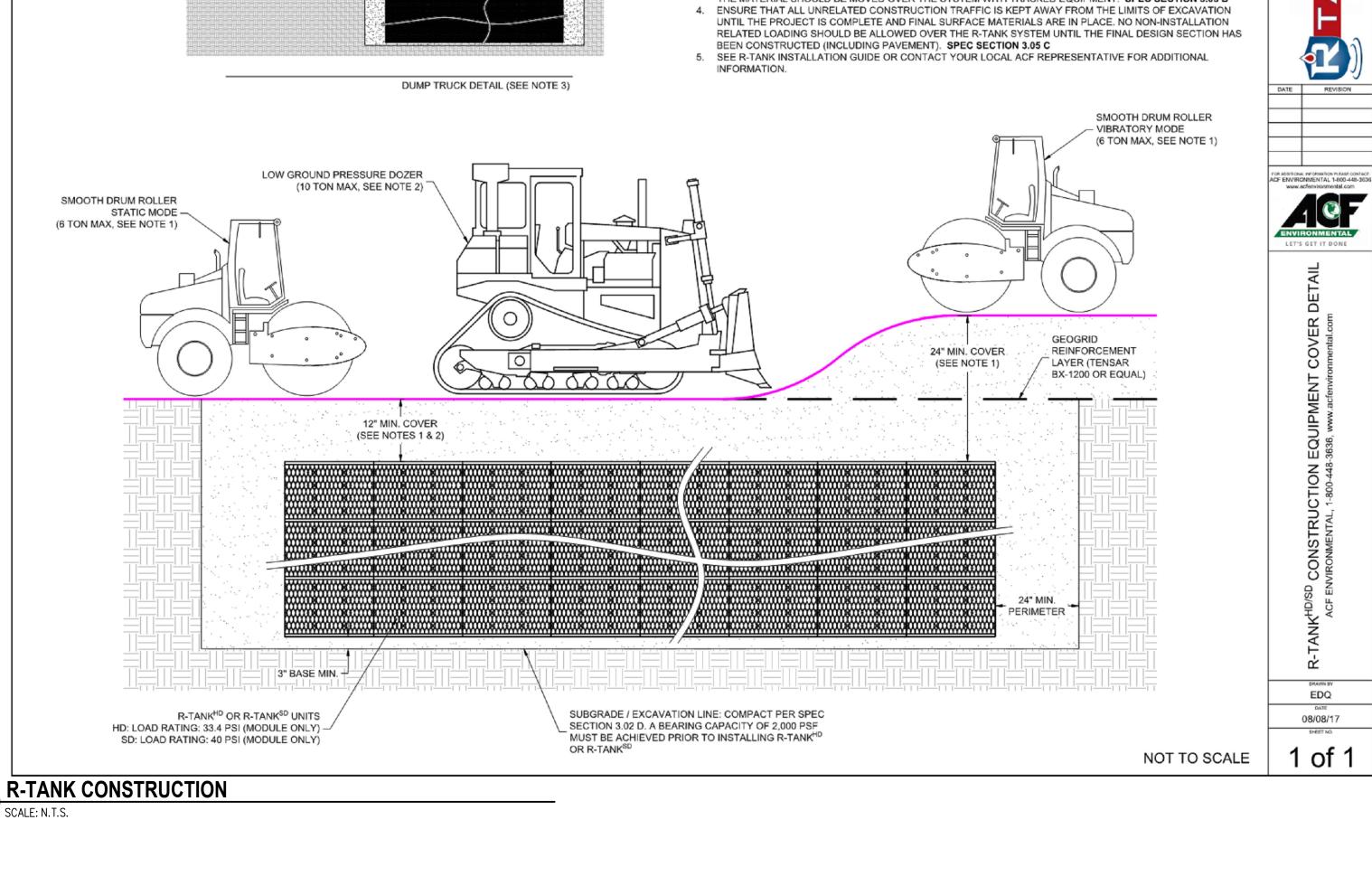
P:206.441.4522

NAC NO 121-19038

DATE 05/10/2021

DRAWN VMS

CHECKED RCH



REVISIONS

PERMIT RESUBMIT

APPROVED

CITY OF PUYALLUP FIRE CODE OFFICIAL DATE ____ May 13, 2021

FIRE HYDRANT/FDC

THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE FIRE CODE

CITY OF PUYALLUP WATER

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE WATER PURVEYOR.

THE CITY WILL NOT BE

CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

LEGEND

PROPOSED FEATURES-

----- W ------ WATER PIPING

WATER FITTING W/THRUST BLOCKS

GATE VALVE

FIRE HYDRANT, SEE DETAIL 01/C4.04

——— **SS** ——— SANITARY SEWER PIPING

GENERAL NOTES

REQUIREMENTS.

APPROVED METHODS.

- THE WATER SYSTEM SHALL BE CONSTRUCTED TO CURRENT CITY OF PUYALLUP STANDARDS.
- 2. TYPICAL UTILITY TRENCH EXCAVATION, BEDDING AND BACKFILL SHALL COMPLY WITH CITY STANDARD DETAIL 06.01.01 REQUIREMENTS (SEE DETAIL 02/C4.04).
- 3. ADJUST OR SET THE FRAMES OF EXISTING AND PROPOSED UTILITY GRATES AND COVERS AS NECESSARY TO MATCH THE CROSS SLOPE OF THE PROPOSED FINISH GRADE AND SUCH THAT NO PONDING OCCURS AROUND UTILITY GRATES AND COVERS.
- 4. ALL WATER AND FIRE WATER PIPING 3" AND LARGER SHALL BE THRUST BLOCKED PER DETAILS 04, 05, & 06/C4.03. 3" THRUST BLOCKS SHALL MATCH 4" SIZES.
- 5. ALL WATER AND FIRE WATER FITTINGS 3" AND LARGER SHALL HAVE MEGALUG RESTRAINED JOINTS.
- 6. COMPLY WITH WATERMAIN CLEARANCE REQUIREMENT IN DETAILS 02 & 03/C4.03.
- 7. FH INSTALLATIONS SHALL CONFORM TO DETAIL 01/C4.04 REQUIREMENTS.
- 8. COMPLY WITH WATER NOTE REQUIREMENTS ON C4.04.
- 9. PROVIDE WATER VALVE INSTALLATIONS PER DETAIL 01/C4.03
- 10. PROVIDE 3'-0" MINIMUM COVER OVER WATER PIPELINE UNLESS
- OTHERWISE SPECIFIED. 11. THE MINIMUM DISTANCE BETWEEN WATER LINES AND SEWER LINES SHALL BE 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY. IF THIS

CRITERION CANNOT BE MET, THE CONTRACTOR SHALL ISOLATE THE SEWER AND WATER LINES BY ENCASEMENT, SHIELDING, OR OTHER

12. COMPLY WITH CITY STANDARD SEWER NOTES ON C4.04.







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SHEET 31 OF 45

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APPROVED CITY OF PUYALLUP DEVELOPMENT SERVICES

DATE 5/13/2021 NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

----- W ----- WATER PIPING

WATER FITTING W/THRUST BLOCKS GATE VALVE

> FIRE HYDRANT, SEE DETAIL 01/C4.04 GUARD POSTS, SEE DETAIL 01/C4.04

PURVEYOR.

GENERAL NOTES

THE WATER SYSTEM SHALL BE CONSTRUCTED TO CURRENT CITY OF PUYALLUP STANDARDS.

APPROVED

CITY OF PUYALLUP WATER

THIS APPROVAL IS VOID AFTER

OMISSIONS ON THESE PLANS.

DETERMINED BY THE WATER

FIELD CONDITIONS MAY DICTATE

CHANGES TO THESE PLANS AS

THE CITY WILL NOT BE

180 DAYS FROM APPROVAL DATE.

RESPONSIBLE FOR ERRORS AND/OR

- TYPICAL UTILITY TRENCH EXCAVATION, BEDDING AND BACKFILL SHALL COMPLY WITH CITY STANDARD DETAIL 06.01.01 REQUIREMENTS (SEE DETAIL 02/C4.04).
- ADJUST OR SET THE FRAMES OF EXISTING AND PROPOSED UTILITY GRATES AND COVERS AS NECESSARY TO MATCH THE CROSS SLOPE OF THE PROPOSED FINISH GRADE AND SUCH THAT NO PONDING OCCURS AROUND UTILITY GRATES AND COVERS.
- 4. ALL WATER AND FIRE WATER PIPING 3" AND LARGER SHALL BE THRUST BLOCKED PER DETAILS 04, 05, & 06/C4.03. 3" THRUST BLOCKS SHALL MATCH 4" SIZES.
- 5. ALL WATER AND FIRE WATER FITTINGS 3" AND LARGER SHALL HAVE MEGALUG RESTRAINED JOINTS.
- 6. COMPLY WITH WATERMAIN CLEARANCE REQUIREMENT IN DETAILS
- 7. FH INSTALLATIONS SHALL CONFORM TO DETAIL 01/C4.04 REQUIREMENTS.
- 8. COMPLY WITH WATER NOTE REQUIREMENTS ON C4.04.
- 9. PROVIDE WATER VALVE INSTALLATIONS PER DETAIL 01/C4.03 REQUIREMENTS.
- 10. PROVIDE 3'-0" MINIMUM COVER OVER WATER PIPELINE UNLESS OTHERWISE SPECIFIED.
- THE MINIMUM DISTANCE BETWEEN WATER LINES AND SEWER LINES SHALL BE 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY. IF THIS CRITERION CANNOT BE MET, THE CONTRACTOR SHALL ISOLATE THE SEWER AND WATER LINES BY ENCASEMENT, SHIELDING, OR OTHER APPROVED METHODS.
- 12. COMPLY WITH CITY STANDARD SEWER NOTES ON C4.04.

1 - 8"x8" MJxFL TEE 1 – 8" FLxMJ GATE VALVE

2 CONNECTION AT EXISTING 8" WATER LINE.

3 REINSTALL SALVAGED FDC.

1 - 8"x6" MJxFL TEE 1 — 8" MJ PLUG

> 2 - THRUST BLOCK 2' OF 6"ø DIP 1 - FIRE HYDRANT ASSEMBLY 2 - GUARD POSTS

5 PIPING PER MECHANICAL PLANS.

6 MECHANICAL EQUIPMENT PER MECHANICAL PLANS.

7 1 - 8" 45° MJ ELL

8 1 - 8" 45° MJxFL ELL 1 — 8" FLXMJ GATE VALVE

9 ROTATE EXISTING FIRE HYDRANT TO FACE NEW PAVEMENT.

10>> ALL EXISTING FIRE HYDRANTS SHALL HAVE A STORZ FITTING INSTALLED. REPLACE AS NECESSARY.

11 POST INDICATOR VALVE PER DETAIL 05/C4.05.

WATER CROSSINGS

(1) BOTTOM OF 8" WATER=508.73 TOP OF 12" STORM DRAIN=507.39 SEPARATION=1.34

) ESTIMATED BOTTOM OF EXISTING GAS=512.55 TOP OF 8" WATER=509.45



HORIZONTAL SCALE: 1"=20'





Proj. Engineer: VMS | Proj. Drafter:

roject No.:

18711 | Project Mgr.:

UTILITY PLAN

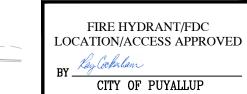
SHEET 32 OF 45

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UTILITY PLAN

SHEET 33 OF 45



FIRE CODE OFFICIAL

DATE _ May 13, 2021

THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/O OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE FIRE CODE OFFICIAL.

LEGEND

PROPOSED FEATURES-

GENERAL NOTES

DETAIL 02/C4.04).

MATCH 4" SIZES.

02 & 03/C4.03.

REQUIREMENTS.

OTHERWISE SPECIFIED.

APPROVED METHODS.

MEGALUG RESTRAINED JOINTS.

PUYALLUP STANDARDS.

AROUND UTILITY GRATES AND COVERS.

CITY OF PUYALLUP WATER

PURVEYOR.

WATER FITTING W/THRUST BLOCKS

FIRE HYDRANT, SEE DETAIL 01/C4.04

GUARD POSTS, SEE DETAIL 01/C4.04

SANITARY SEWER CLEANOUT, SEE DETAIL 03/C4.04

SANITARY SEWER PIPING

THE WATER SYSTEM SHALL BE CONSTRUCTED TO CURRENT CITY OF

COMPLY WITH CITY STANDARD DETAIL 06.01.01 REQUIREMENTS (SEE

ADJUST OR SET THE FRAMES OF EXISTING AND PROPOSED UTILITY

4. ALL WATER AND FIRE WATER PIPING 3" AND LARGER SHALL BE THRUST BLOCKED PER DETAILS 04, 05, & 06/C4.03. 3" THRUST BLOCKS SHALL

5. ALL WATER AND FIRE WATER FITTINGS 3" AND LARGER SHALL HAVE

7. FH INSTALLATIONS SHALL CONFORM TO DETAIL 01/C4.04 REQUIREMENTS.

11. THE MINIMUM DISTANCE BETWEEN WATER LINES AND SEWER LINES SHALL

CRITERION CANNOT BE MET, THE CONTRACTOR SHALL ISOLATE THE

BE 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY. IF THIS

SEWER AND WATER LINES BY ENCASEMENT, SHIELDING, OR OTHER

6. COMPLY WITH WATERMAIN CLEARANCE REQUIREMENT IN DETAILS

8. COMPLY WITH WATER NOTE REQUIREMENTS ON C4.04.

9. PROVIDE WATER VALVE INSTALLATIONS PER DETAIL 01/C4.03

10. PROVIDE 3'-0" MINIMUM COVER OVER WATER PIPELINE UNLESS

12. COMPLY WITH CITY STANDARD SEWER NOTES ON C4.04.

GRATES AND COVERS AS NECESSARY TO MATCH THE CROSS SLOPE OF

THE PROPOSED FINISH GRADE AND SUCH THAT NO PONDING OCCURS

2. TYPICAL UTILITY TRENCH EXCAVATION, BEDDING AND BACKFILL SHALL

GATE VALVE

APPROVED

THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OF OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE WATER

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

DATE 5/13/2021

NOTE: THIS APPROVAL IS VOID

AFTER 180 DAYS FROM APPROVAL

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

CITY OF PUYALLUP DEVELOPMENT SERVICES

WATER CROSSINGS

- 1) BOTTOM OF 8" WATER=502.06 TOP OF 12" STORM DRAIN=500.90 SEPARATION=1.16
- (2) BOTTOM OF 8" WATER=496.89 ESTIMATED TOP OF EXISTING 10" STORM DRAIN=484.12 SEPARATION=12.77

-METAL BLEACHERS

- (3) BOTTOM OF 8" WATER=496.92 TOP OF 12" STORM DRAIN=491.99 SEPARATION 4.93
- (4) BOTTOM OF 8" WATER=497.42 TOP OF 12" STORM DRAIN=492.45 SEPARATION=4.97 (5) BOTTOM OF 6" SEWER=497.77
- TOP OF 6" ROOF DRAIN=493.63 SEPARATION=4.14 (6) BOTTOM OF 8" WATER=497.64
- SEPARATION=5.08 (7) BOTTOM OF 8" WATER=496.98 TOP OF 12" STORM DRAIN=491.67 SEPARATION=5.31

TOP OF 6" ROOF DRAIN=492.56

- (8) ESTIMATED BOTTOM OF EXISTING 3" ROOF DRAIN=500.16 TOP OF 4" WATER=499.16 SEPARATION=1.00 (9) ESTIMATED BOTTOM OF EXISTING 6" STORM DRAIN=500.84
- SEPARATION=1.97 (10) BOTTOM OF 8" WATER=497.76 ESTIMATED TOP OF EXISTING 12" STORM DRAIN=483.57
- (11) BOTTOM OF 4" WATER=498.92 TOP OF 6" ROOF DRAIN=494.02 SEPARATION=4.90

SEPARATION=14.19

TOP OF 4" WATER=498.87

(12) BOTTOM OF 4" WATER=498.99 ESTIMATED TOP OF EXISTING 8" SEWER=496.92 SEPARATION=2.07

- (14) BOTTOM OF 3/4" WATER=497.67 TOP OF 8" WATER=496.66 SEPARATION=1.01
- (15) BOTTOM OF 3/4" WATER=498.79 ESTIMATED TOP OF EXISTING STORM DRAIN=495.42 SEPARATION=3.37
- (16) NOT USED
- (17) BOTTOM OF 8" WATER=497.68 ESTIMATED TOP OF EXISTING 6" SEWER=496.68 SEPARATION=1.00
- (18) BOTTOM OF 8" WATER=496.98 ESTIMATED TOP OF EXISTING 12" STORM DRAIN=482.55 SEPARATION=14.43
- (19) BOTTOM OF 8" WATER=496.98 TOP OF 12 STORM DRAIN=489.95 SEPARATION=7.03
- (20) BOTTOM OF 8" WATER=497.10 TOP OF 4" VAULT DRAIN=492.65 SEPARATION=4.45
- (21) BOTTOM OF EXISTING 6" STORM DRAIN=499.35 TOP OF 2" WATER=498.35 SEPARATION=1.00
- (22) BOTTOM OF 4" SEWER=496.60 TOP OF 6" ROOF DRAIN=493.89 SEPARATION=2.71
- (23) ESTIMATED BOTTOM OF EXISTING 3" ROOF DRAIN=499.98 TOP OF 4" SEWER=497.21 SEPARATION=2.77

KEY NOTES

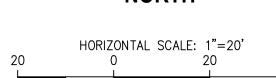
- 1 8"x8" MJxFL TEE 1 — 8" FLxMJ GATE VALVE 1 - THRUST BLOCK
- 2 NOT USED.
- 3 1 8" 90° MJ ELL 1 – THRUST BLOCK
- DRINKING FOUNTAIN PER LANDSCAPE PLANS.
- GRA 5 COORDINATE NEW SANITARY SEWER BUILDING CONNECTION WITH MECHANICAL. IE=498.02. PROVIDE SAMPLING CONNECTION PER DETAIL
 - 6 1 8"x4" FL TEE
 - 1 4" FLxMJ GATE VALVE 1 - THRUST BLOCK
 - 7 >> 1 4" 90° MJ ELL 1 - THRUST BLOCK
 - 1 3" REDUCED PRESSURE BACKFLOW ASSEMBLY PER DETAIL 06/C4.05. 1 – CONCRETE PAD 1 - SAFE-T-COVER ENCLOSURE "HOT BOX" MODEL 400D-AL OR EQUAL. COORDINATE WITH ELECTRICAL FOR POWER REQUIREMENTS.
 - $9 \rightarrow 1 3$ " WATER METER PER DETAIL 01/C4.05. 1 - OLD CASTLE 676-LA VAULT & 676-1-T-332P VAULT TOP PER DETAILS 01 & 02/C4.05.
 - 10 PROVIDE 2" IRRIGATION DCVA PER DETAIL 04/C4.05. SEE ALSO LANDSCAPE PLANS FOR DCVA AND 2-1/2" IRRIGATION LINE DOWNSTREAM OF DCVA.
 - 11 BUILDING CONNECTION. COORDINATE WITH MECHANICAL.
 - 12 PROVIDE 2" IRRIGATION SERVICE PER DETAIL 03/C4.05.
 - 13 PROVIDE 1-1/2" METER AND BOX PER DETAIL 03/C4.05.
 - 72" TYPE 3 MANHOLE PER WSDOT B15.60-02 WITH SALVAGED ACID NEUTRALIZATION TANK.
 - 15 1 8"x6" MJxFL TEE 1 - 8" MJ PLUG
 - 2 THRUST BLOCK
 - 2' OF 6"ø DIP 1 - FIRE HYDRANT ASSEMBLY
 - 2 GUARD POSTS
 - 16 PIPING PER MECHANICAL PLANS.
 - 17>> NEW 4" ACID WASTE PIPING. COORDINATE PIPE MATERIAL AND LOCAT WITH MECHANICAL.
 - 18 NEW 3" VENT PIPING. COORDINATE PIPE MATERIAL AND LOCATION WITH MECHANICAL.
 - 19 1 8" 45° MJ ELL 1 - THRUST BLOCK

FIFOUND 1/2" REBAR AND CAP

'L'LS 18082 LS 17699'

CLEANOUT (CO) SCHEDULE CB ID RIM IE NOTES SSCO 01 502.38 497.82 6" N 497.82 6" SE SSCO 02 502.32 497.39 6" NW 497.39 6" S SSCO 03 502.15 496.99 4" W 496.99 4" N











4815 CENTER STREET TACOMA, WA. 98409 PHONE: (253) 474-9449 FAX: (253) 474-0153 http://www.sittshill.com/ 18711 | Project Mgr.: Proj. Engineer: VMS | Proj. Drafter:

___10LF 6" PVC SDR35 @ 4.38% N: 671258.63 (13) BOTTOM OF 4" WATER=498.78 F.F.=502.42 E: 1200195.69 TOP OF 4" SEWER=497.53 10LF 4"ø DIP SEPARATION=1.25 -7LF 6" PVC/SDR35/@04.38% ∫ 23LF 4" PVC SDR35 @ 2.29%-\ SSCO 04 RIM: 502.38 IE = 499.54SSMH 01, SSMH TYPE 3-72" N: 671,223.19 -31LF 4" PVC//SDR35 @ 2.00% IE = 499.84E: 1,200,171.93 RIM: 502.32 IE: 497.61 4" N (IN) IE: 497.51 4" E (OUT) IE: 498.01 3" N (OUT) IE=499.33, 6"PVC N IE=498.76, 12"CPP E 100LF 4" DIP-IE=498.82, 6"CMP W 2. 8"CMP N: 671186.17 E: 1200292.74 N: 671188.13 r 69LF 8"Ø DIP B N: 671167.74 12\ E:1200245/18 🖇 14LF 8"ø DIP N: 671155.68 48LF 4"ø DIP N: 671160.58 🧸 E: 1200174.32 4LF 4"ø DIP — └─ 3LF //3"ø DIP 170LF\8"ø DIP / N: 671126.17 E: 1200243,44

N: 671369.07

E;1200332.60

33LF78"ø DIP

N: 67/1357.97

E:1200298.96

N: 671370.61

E: 1200299.49

13LF 8"ø DIP

19/ N: 671314.17

E: 1200251.32

224LF 8"ø DIP

RIM = 501.06

6/23/2020 5:24:26 PM D:_Revit\FerrucciJHAdd -DD - R20_aramirez.rvt

IE=498.71, 6"CMP E

IE=498.64, 6"CMP W

7 N: 671372.74

IE = 496.4, 6

IE = 496.2

IE = 496.3

E: 1200253.77나

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DATE 05/10/2021

UTILITY DETAILS

SHEET 34 OF 45



APPROVED

CITY OF PUYALLUP WATER

THIS APPROVAL IS VOID AFTER

DETERMINED BY THE WATER

THE CITY WILL NOT BE

PURVEYOR.

DATE__5/13/2021

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS

180 DAYS FROM APPROVAL DATE. RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

NOTES FOR WATER MAIN CROSSING OTHER UTILITIES WHEN LOCAL CONDITIONS PREVENT THE SEPARATIONS DESCRIBED ON CITY STANDARD 03.01.03—1, A SEWER MAY BE LAID CLOSER THAN 10-FEET HORIZONTALLY OR 18-INCHES VERTICALLY TO A WATER LINE, PROVIDED THE GUIDELINES BELOW ARE FOLLOWED: UNUSUAL CONDITIONS (PARALLEL SYSTEMS)

1. SEWER LINE IS LAID IN A SEPARATE TRENCH FROM THE WATER LINE.

2. WHEN 18-INCHES VERTICAL SEPARATION CANNOT BE OBTAINED, THE SEWER SHALL BE CONSTRUCTED OF MATERIALS AND JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS PRIOR TO PROVENIUM.

3. THE WATER LINE SHALL BE PLACED ON A BENCH OF UNDISTURBED EARTH WITH THE BOTTOM OF THE WATER PIPE AT LEAST 18-INCHES ABOVE THE CROWN OF THE SEWER, AND SHALL HAVE AT LEAST 5-FEET OF HORIZONTAL SEPARATION AT ALL TIMES. THE CITY RESERVES THE RIGHT TO REQUIRE SUPPLEMENTAL MITIGATION EFFORTS, SUCH AS IMPERMEABLE BARRIERS OR OTHER MEANS, FOR ADDITIONAL PROTECTION.

4. THE SEWER SHALL NOT BE INSTALLED IN THE SAME DITCH AS A POTABLE WATER LINE WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY OF PUYALLUP.

UNUSUAL CONDITIONS (PERPENDICULAR SYSTEMS) CONDITION A - GRAVITY SEWERS PASSING UNDER WATER LINES (ALL OF THE FOLLOWING APPLY)

ONE FULL SEGMENT (NOT LESS THAN 18-FEET LONG) OF DUCTILE IRON CLASS 52 WATER PIPE, AND THE LONGEST STANDARD SEWER PIPE LENGTH AVAILABLE FROM THE MANUFACTURER SHALL BE USED WITH THE PIPES CENTERED TO MAXIMIZE JOINT SEPARATION. STANDARD GRAVITY—SEWER MATERIAL ENCASED IN CONCRETE OR IN A ONE—QUARTER—INCH THICK CONTINUOUS STEEL, DUCTILE IRON, OR PRESSURE RATED PVC PIPE WITH A DIMENSION RATIO (THE RATIO OF THE OUTSIDE DIAMETER TO THE PIPE WALL THICKNESS) OF 18 OR LESS, WITH ALL VOIDS PRESSURE—GROUTED WITH SAND—CEMENT GROUT OR BENTONITE. EXAMPLE OF DIMENSION RATIO (DR): OUTSIDE PIPE DIAMETER DIVIDED BY THE WALL THICKNESS OR OD/T. FOR 8-INCH SCH. 80 PVC PIPE (T=0.5 INCHES), THE DR IS 8.625/0.5=17.25

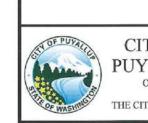
CONDITION B - GRAVITY SEWER PASSING OVER WATER LINES

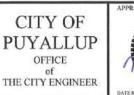
WATER LINES SHALL BE PROTECTED BY PROVIDING:

1. A VERTICAL SEPARATION OF AT LEAST 18-INCHES BETWEEN THE INVERT OF THE SEWER AND THE CROWN OF THE WATER LINE. 2. ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER LINE TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING OF THE WATER LINE.

THE SEWER PIPE SHALL BE THE LONGEST STANDARD SEWER PIPE LENGTH AVAILABLE FROM THE MANUFACTURER WITH THE WATER AND SEWER PIPES CENTERED TO MAXIMIZE JOINT SEPARATION.

4. THE SEWER LINE CASING EQUIVALENT TO THAT SPECIFIED IN A(2) ABOVE.





WATER MAIN CROSSING OTHER UTILITIES (NOTES)

WATER MAIN CROSSING OTHER UTILITIES NOTES SCALE: N.T.S.

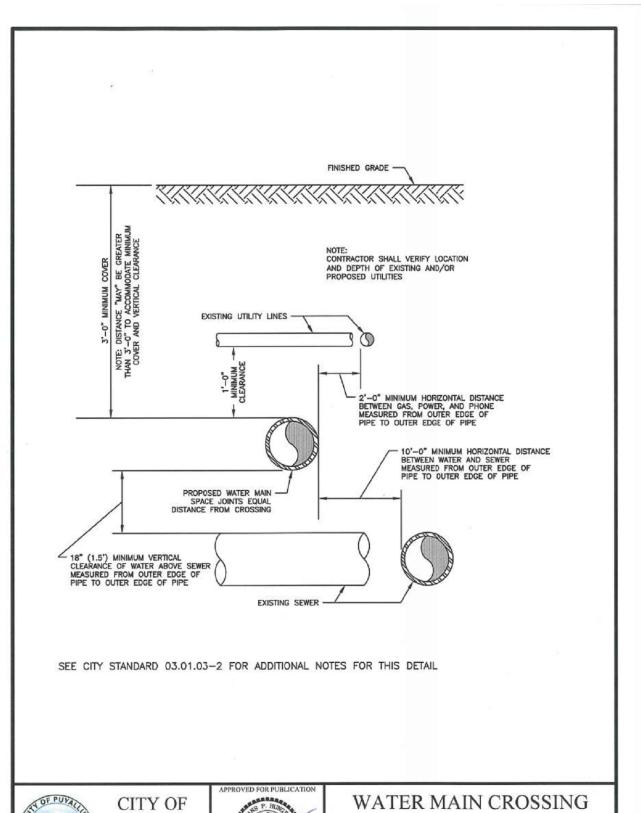
TABLE 2: THRUST AT FITTINGS AT 200 PSI

16" 200 50,265 71,085 38,470 19,615

TABLE 3: BEARING VALUE OF SOIL

THRUST FITTINGS AT 200 PSI

28,275 39,985 21,640 11,030 38,485 54,425 29,455 15,015



WATER MAIN CROSSING OTHER UTILITIES

OTHER UTILITIES

AND MAINS OFFICE

WATER VALVES AND MAINS
SCALE: N.T.S.

WATER VALVES

WYE

HORIZONTAL THRUST

BLOCKING

(COLUMN C)

DIRECTION CHANGE, CROSS USED AS ELBOW

SEAL JOINTS WITH HOT ASPHALT CEMENT (AR4000W)

4" (MIN.) COMPACTED THICKNESS ASPHALT CONCRETE (MATCH EXISTING THICKNESS) HMA CL 1/2" PG 64-22

EXISTING ASPHALT

DETECTABLE MARKING TAPE

ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO COATS OF METAL PAINT.

ONE-QUARTER (1-1/4) INCHES SHALL BE STEEL, ASTM A 307, GRADE B, WITH CADMIUM PLATING, ASTM A 165, TYPE NS.

E. PROVIDE A WASHER FOR EACH NUT, WHERE NEEDED. WASHERS SHALL BE OF THE SAME MATERIAL AS THE NUTS.

F. ALL FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C 110 AND AWWA C 111.

PUYALLUF

OFFICE

CONNECTION, TEE

NEAT LINE CUTS SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.

NOTES:

1. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" FROM PAVED FINAL GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.

VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN FIVE (5) FEET BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF TWO (2) FEET LONG, ONLY ONE EXTENSION TO BE USED PER VALVE. TOP OF EXTENSION SHALL BE 2 FEET 6 INCHES TO 3 FEET BELOW FINISHED GRADE.

VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), AS MANUFACTURED BY THE VANRICH #940 SEATLE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN RELIEF ON THE VALVE BOX COVER. VALVE BOX TOPS INSTALLED IN ARTERIAL ROADWAYS SHALL BE MANUFACTURED BY EAST JORDAN (EJ) IRONWORKS MODEL 8555 WITH VALVE BOX COVER MODEL 6800 OR APPROVED EQUAL.

WATER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH DIVISION 7 OF THE WSDOT STANDARD SPECIFICATIONS SUPPLEMENTED WITH THE FOLLOWING:

A. DUCTILE IRON PIPE SHALL CONFORM TO AWWA C 151, THICKNESS CLASS 52, AND THE EXTERIOR SHALL BE COATED WITH COAL TAR VARNISH. PIPE AND FITTINGS SHALL BE MORTOR LINED AND SHALL CONFORM TO AWWA C 104. THE THICKNESS OF THE LINING SHALL BE NOT LESS THAN 1/16" THICK FOR 3" TO 12" PIPE, 3/32" THICK FOR 14" TO 24" PIPE, AND 1/8" THICK FOR 30" TO 54" PIPE. THE CEMENT LINING SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 150.

). BOLTS USED IN FLANGE INSTALLATION SETS SHALL CONFORM TO ASTM B 193, GRADE B7. NUTS SHALL COMPLY WITH ASTM A 194, GRADE 2H.

G. RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR TEN (10) INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS

1) RESILIENT SEATED WEDGE GATE VALVE: GATE VALVES SHALL CONFORM TO THE LATEST AWWA SPECIFICATIONS FOR COLD WATER, DOUBLE-DISK GATE VALVES, 200 PSI WORKING PRESSURE. THEY SHALL BE IRON-BODIED, BRONZE MOUNTED, NON-RISING STEM, WITH TWO (2) INCH SQUARE NUT. COUNTER-CLOCKWISE OPENING, MECHANICAL JOINT AND / OR FLANGED ENDS (6" VALVES ON FIRE HYDRANT LINES WHICH SHALL BE MECHANICAL JOINTS BY FLANGED). VALVE STEMS SHALL BE PROVIDED WITH O-RING SEALS AND SHALL BE AS MANUFACTURED BY THE MUELLER COMPANY OR APPROVED EQUAL.

2) BUTTERFLY VALVES: BUTTERFLY VALVES CONFORMING WITH AWWA C 504, CLASS 150 AND SHALL HAVE STANDARD AWWA TWO (2) INCH SQUARE NUT. DETECTABLE MARKING TAPE SHALL BE INSTALLED 18" ABOVE PIPE, BE BLUE IN COLOR, AND READ "CAUTION WATER LINE BELOW" MEETING WSDOT SPEC 9-15.18.

DIRECTION CHANGE,

(COLUMN B)

B. THE PIPE FITTING(S) AND BOLTS MUST BE ACCESSIBLE. WRAP IN PLASTIC BEFORE POURING CONCRETE BLOCKING.

DMDE THRUST BY SAFE BEARING LOAD TO DETERMINE REQUIRED AREA (IN SQUARE FEET) OF CONCRETE TO DISTRIBUTE LOAD.

C. CONCRETE SHOULD BE CURED FOR AT LEAST 5 DAYS AND SHOULD HAVE A MINIMUM COMPRESSION STRENGTH OF 3,000 PSI AT 28

THE FOLLOWING PRECAUTIONS MUST BE OBSERVED WHEN CONSTRUCTING THRUST BLOCKS: A. BLOCKS MUST BE POURED OR PLACED AGAINST UNDISTURBED SOIL.

CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.

HORIZONTAL THRUST BLOCKING

PUYALLUI

OFFICE

D. RESTRAINED JOINTS SHALL BE INSTALLED, IN ADDITION TO CONCRETE THRUST BLOCKING. E. BLOCKS MUST BE POSITIONED TO COUNTERACT THE DIRECTION OF THE RESULTANT THRUST FORCE.

ALL PIPE SHALL BE PROPERLY BEDDED, SEE CITY OF PUYALLUP STANDARD BEDDING DETAIL NO. 06.01.01.

BEARING SURFACE AREAS TO BE ADJUSTED BY THE ENGINEER FOR OTHER PRESSURE AND/OR SOIL CONDITIONS.

TEE USED AS ELBOW

THRU LINE CONNECTION,

CROSS USED AS TEE

JOINTS SHALL BE TYTON PUSH-ON JOINTS, OR APPROVED EQUAL, OR MECHANICAL JOINT TYPE PER AWWA C 111 EXCEPT WHERE FLANGED JOINTS AR REQUIRED TO CONNECT TO VALVES OR OTHER EQUIPMENT. . BOLTS AND NUTS FOR BURIED FLANGES LOCATED OUTDOORS, ABOVE GROUND, OR IN OPEN VAULTS IN STRUCTURES SHALL BE TYPE 316 STAINLESS STEEL COMFORMING TO ASTM A 193, GRADE BBM FOR BOLTS, AND ASTM A 194, GRADE BM FOR NUTS. BOLTS AND NUTS LARGER THAN ONE AND

1/3 TOTAL LENGTH

2-1/4" INSIDE MEASUREMENT 2-1/4" DEPTH

VALVE OPERATING NUT EXTENSION DETAIL NOT TO SCALE

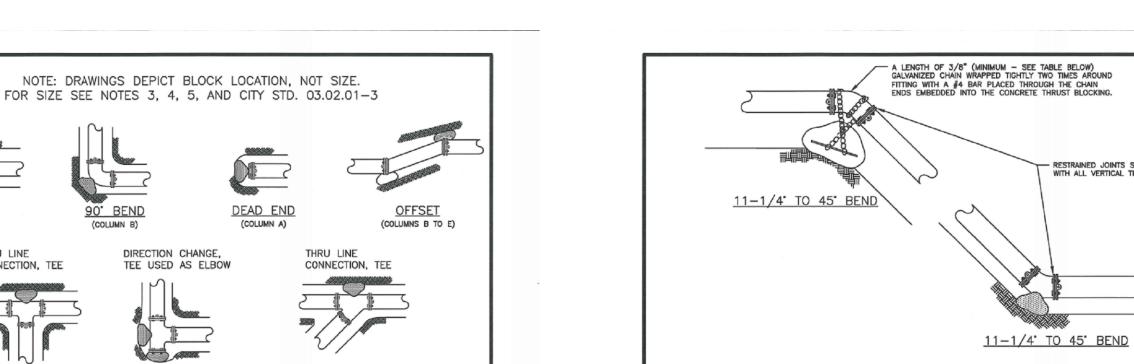
1/8" MIN. THICKNESS

CONCRETE COLLAR -

VALVE OPERATION NUT EXTENSION — SHALL BE USED AS REQUIRED, (SEE NOTES 2 & 3)

VALVE BOX BOTTOM SECTION, ---

VALVE -(SEE NOTE 6-G)



_	TABLE 1	: CONCRET	E BLOCKIN	G FOR \	ERTICAL BE	ENDS
PIPE DIAMETER (INCHES)	TEST PRESSURE (PSI)	BEND ANGLE (DEG)	CONCRETE VOLUME (FT ³)	CUBE SIZE (FEET)	CHAIN SIZE (INCHES)	CHAIN EMBEDMENT (INCHES)
		11.25*	6	1.8		
4"	200	22.5*	12	2.3	3/8"	17"
		45*	22	2.8		
		11.25*	14	2.4		
6"	200	22.5°	27	3.0	3/8"	17"
		45*	50	3.7		
	200	11.25*	25	2.9	3/8"	. 17"
8"		22.5*	48	3.6		
		45*	89	4.5		
	200	11.25*	38	3.4	3/8"	17"
10"		22.5*	75	4.2		
		45*	139	5.2		
		11.25	55	3.8	3/8"	17**
12"	200	22.5*	108	4.8		17
		45'	200	5.8	1/2"	24"
	200	11.25	75	4.2	3/8"	17"
14"		22.5*	147	5.3	1/2"	20"
		45*	272	6.5	1/2"	27"
		11.25	98	4.6	3/8"	17"
16"	200	22.5*	192	5.8	1/2"	24"
		45'	355	7.1	3/4"	30"

SEE CITY STANDARD 03.02.01-3 FOR ADDITIONAL INFORMATION PUYALLU. OFFICE

VERTICAL THRUST BLOCKING

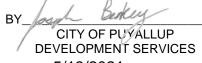
VERTICAL THRUST **BLOCKING**

> THRUST BLOCKING TABLE SCALE: N.T.S.

RESTRAINED JOINTS SHALL BE INSTALLED WITH ALL VERTICAL THRUST BLOCKING.

SAFE BEARING LOAD LBS/SF MUCK, PEAT, ETC. SOFT CLAY/ALLUVIAL SOIL 1,000 2,000 3,000 SAND AND GRAVEL SAND AND GRAVEL CEMENTED WITH CLAY 4,000 10,000 SEE CITY STANDARDS 03.02.01-1 AND 03.02.01-2 FOR ADDITIONAL INFORMATION. ① TO DETERMINE THRUST AT PRESSURES OTHER THAN PSI SHOWN, MULTIPLY THE THRUST OBTAINED IN TABLE 2 BY THE RATIO OF THE PRESSURE TO 200 PSI. EXAMPLE: THE THRUST ON A 12 INCH, 90° BEND AT 300 PSI. $39,985 \times \frac{300}{200} \stackrel{PS}{PS} = 59,978 LBS$ ② TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (SF): SEE TABLE 3, BEARING VALUE OF SOIL EXAMPLE: FOR SAND AND GRAVEL BEARING VALUE FROM TABLE 3 IS 3,000 LBS/SF 59,978 LBS + 3000 LB/SF = 20 SF OF AREA CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AREAS SHALL BE ADJUSTED FOR OTHER PRESSURE CONDITIONS. (S) NO WATER MAIN SHALL DEAD END AGAINST A MAIN LINE VALVE. DEAD END WATER MAINS SHALL BE BLOCKED AGAINST A RESTRAINED MECHANICAL JOINT (M.J.) PLUG OR CAP. THRUST BLOCKING TABLE **PUYALLUP** OFFICE





CITY OF PUYALLUP WATER

APPROVED

180 DAYS FROM APPROVAL DATE.

RESPONSIBLE FOR ERRORS AND/O OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE

CHANGES TO THESE PLANS AS

DETERMINED BY THE WATER

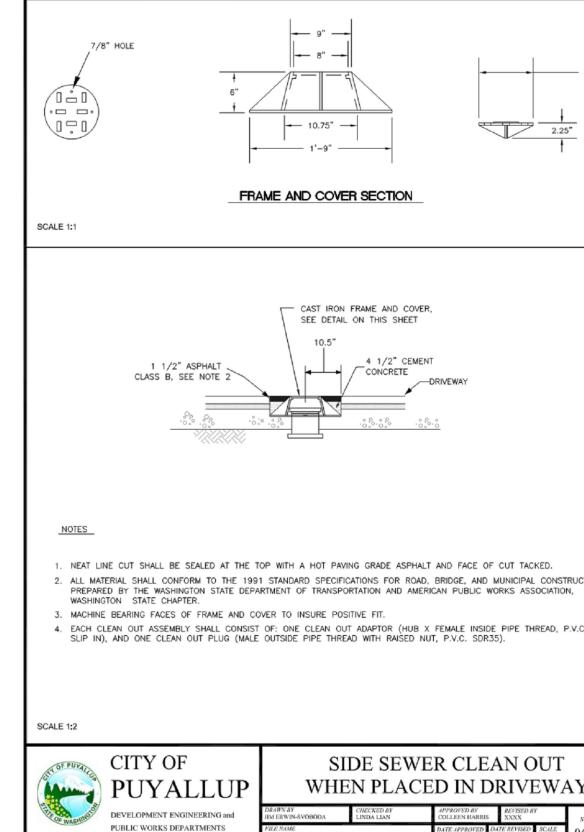
THE CITY WILL NOT BE

PURVEYOR.

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL THIS APPROVAL IS VOID AFTER

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS

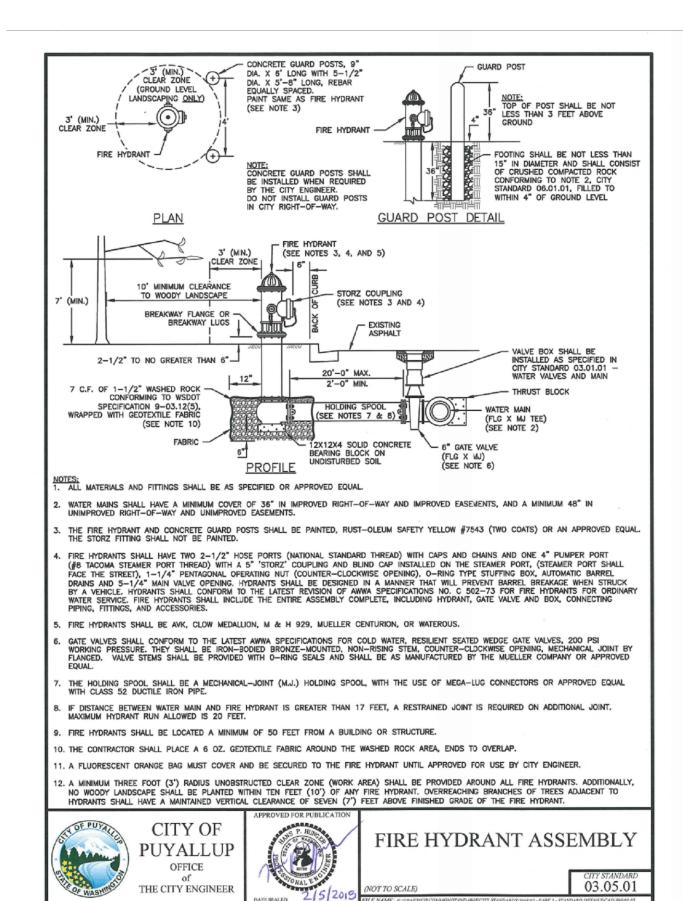
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.



- . NEAT LINE CUT SHALL BE SEALED AT THE TOP WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED. 2. ALL MATERIAL SHALL CONFORM TO THE 1991 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION
- 4. EACH CLEAN OUT ASSEMBLY SHALL CONSIST OF: ONE CLEAN OUT ADAPTOR (HUB X FEMALE INSIDE PIPE THREAD, P.V.C.

SIDE SEWER CLEAN OUT WHEN PLACED IN DRIVEWAY

SIDE SEWER CLEAN OUT SCALE: N.T.S.



SIDE SEWER CONNECTION

100' MAX. SPACING

BETWEEN CLEANOUTS

1. SAMPLING CONNECTION SHALL BE INSTALLED OUT SIDE WITH UNOBSTRUCTED

2. A SAMPLING CONNECTION SHALL BE INSTALLED FOR EACH COMMERCIAL / RETAIL

A) FOR NON-VEHICULAR TRAFFIC INSTALLATIONS USE "CARSON" MODEL

DETAIL NO. 04.03.05 FRAME AND COVER SECTION.

4. EACH CLEANOUT ASSEMBLY SHALL CONSIST OF: ONE CLEANOUT ADAPTER,

910 GREEN YARD BOX WITH BOLT DOWN LID MARKED SEWER OR

B) FOR ASPHALT, GRAVEL, OR TRAFFIC INSTALLATIONS SEE CITY STANDARD

HUB x FEMALE, FIPT, PVC SI AND ONE CLEANOUT PLUG, MOPT WITH RAISED

COMMERCIAL SIDE SEWER CONNECTION

WITH SAMPLING CONNECTION

ACCESS AT ALL TIMES.

3. CLEAN OUT AND SAMPLING CONNECTION COVERS:

APPROVED EQUAL.

COMMERCIAL SIDE SEWER CONNECTION

UNIT OR SPACE.

CITY OF

PUYALLU

PUBLIC WORKS DEPARTMENTS

、FIRE HYDRANT ASSEMBL`

FINISHED GRADE -

ATTACH CLEANOUT FITTINGS TO EXISTING SIDE SEWER STUB.

CITY OF PUYALLUP **WATER SYSTEM NOTES**

SCALE: N.T.S.

1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.

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SEE NOTE 1

BEDDING MATERIAL

SEE NOTE

OF THE WSDOT SPECIFICATIONS.

UYALLU OFFICE

PIPE TRENCHING BEDDING AND BACKFILL

BACKFILL MATERIAL

SEE NOTE 3

4" MIN. FOR 27" PIPE AND SMALLER 6" MIN. FOR PIPE LARGER THAN 27"

UNDISTURBED OR COMPACTED

PIPE TRENCHING

BEDDING AND BACKFIL

SUB-GRADE

1. TRENCHING SHALL MEET THE REQUIREMENTS OF SECTION 7-08.3(1)A AND 2-06.3(1)

2. BEDDING MATERIAL SHALL CONFORM TO 9-03.12(3) GRAVEL BACKFILL FOR PIPE

3. GRAVEL BACKFILL SHALL CONFORM TO 9-03.12(1)A GRAVEL BACKFILL FOR

- 2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- 3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"). WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS"), OR AS DIRECTED BY FRUITLAND MUTUAL WATER COMPANY (FMWC), VALLEY WATER (VW), OR TACOMA CITY WATER (TCW) IS THE PURVEYOR.
- 4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION. 5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER, THE ENGINEERING SERVICES STAFF, FMWC, VW, OR TWC WHEN SERVED BY THAT PURVEYOR PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- 6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS. 7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR
- RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- 8. BACTERIOLOGICAL (COLIFORM AND IRON BACTERIA) TEST SAMPLES WILL BE TAKEN BY THE CITY (OR FMWC, VW, TCW WHEN SERVED BY THAT PURVEYOR) AND PAID FOR BY THE CONTRACTOR, EXCEPT FOR CAPITOL IMPROVEMENT PROJECTS (CIP) WHICH SHALL BE PAID FOR BY THE CITY. 9. WATER MAINS SHALL HAVE A MINIMUM COVER OF 3 INCHES FROM PAVED FINAL

GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A

MINIMUM OF 48INCHES IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED

FASEMENTS 10. PIPE FOR WATER MAINS SHALL BE DUCTILE IRON CONFORMING TO SECTION 7-09 OF THE STANDARD SPECIFICATIONS, CLASS 52 WITH TYTON OR APPROVED EQUAL JOINTS. PIPE SHALL BE CEMENT LINED IN ACCORDANCE WITH A.S.A. SPECIFICATION A 21.4-1964.

- 11. CONNECTIONS TO EXISTING WATER MAINS TYPICALLY SHALL BE WET TAPS THROUGH A TAPPING TEE AND TAPPING VALVE AND SHALL BE MADE BY A CITY APPROVED CONTRACTOR. THE TAPPING SLEEVE SHALL BE ROMAC SST ALL STAINLESS STEEL TAPPING SLEEVE OR APPROVED EQUAL. A TWO-PIECE EPOXY COATED OR DUCTILE IRON TAPPING SLEEVE MAY BE USED ON DUCTILE IRON PIPE, WHEN THE TAP IS SMALLER THAN THE WATER MAIN SIZE I.E. 6 INCH TAP ON 8 INCH PIPE. THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) SHALL APPROVE THE TIME AND LOCATION FOR THESE CONNECTIONS.
- 12. ALL WATER MAINS AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI IN ACCORDANCE WITH STANDARD SPECIFICATION 7-09.3(23). PRESSURE TESTING SHALL NOT BE PERFORMED UNTIL SATISFACTORY PURITY SAMPLES HAVE BEEN RECEIVED, EXCEPT WHEN NEW WATER MAINS ARE INSTALLED INDEPENDENTLY FROM THE WATER SYSTEM PIPING.
- 13. FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 03.05.01 AND AS DIRECTED BY THE CITY OF PUYALLUP FIRE CODE 14. VALVE MARKER POSTS SHALL BE INSTALLED WHERE VALVE BOXES ARE HIDDEN
- FROM VIEW OR IN UNPAVED AREAS. THE INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL 03.01.02.
- 15. RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR 10-INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN
- 16. PIPE FITTING FOR WATER MAINS SHALL BE DUCTILE IRON AND SHALL BE MECHANICAL JOINT CONFORMING TO AWWA SPECIFICATION C111-72. 17. WATER MAIN PIPE AND SERVICE CONNECTIONS SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- 18. WHERE A WATER MAIN CROSSES THE NORTHWEST GAS PIPELINE, THE WATER LINE SHALL BE CASED WITH PVC PIPE A MINIMUM OF 10 FEET BEYOND EACH SIDE OF THE GAS LINE EASEMENT. CONTACT WILLIAMS NORTHWEST PIPELINE BEFORE THE CROSSING IS MADE.
- 19. TRENCHING, BEDDING, AND BACKFILL FOR WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 06.01.01.
- 20. ALL COMMERCIAL AND INDUSTRIAL DEVELOPMENTS, IRRIGATION SYSTEMS, AND MULTI-FAMILY WATER SERVICE CONNECTIONS SHALL BE PROTECTED BY A DOUBLE CHECK VALVE ASSEMBLY OR A REDUCED PRESSURE BACKFLOW ASSEMBLY AS DIRECTED BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) CONFORMING TO CITY STANDARD DETAILS 03.04.01, 03.04.02,
- AND 03.04.03. 21. ANY LEAD JOINT FITTING DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH A MECHANICAL JOINT FITTING AT THE CONTRACTOR'S EXPENSE.
- 22. WHEN HYDRAULIC FIRE FLOW MODELING IS REQUIRED FOR A PROJECT, THE CITY WILL ISSUE A PERMIT. THE HYDRAULIC MODELING CRITERIA IS BASED ON THE PROJECTED 2030 WATER DEMAND, WHILE MAINTAINING A MINIMUM SYSTEM PRESSURE OF 20 POUNDS PER SQUARE INCH AND A MAXIMUM VELOCITY OF 10 FEET PER SECOND.
- 23. WHEN FILLING A NEW WATER MAIN FOR PURITY WITH HIGHLY CONCENTRATED CHLORINE WATER, THAT "SUPER" CHLORINATED WATER CANNOT SIT INSIDE THE NEW WATER MAIN FOR GREATER THAN 5 DAYS.
- 24. WHEN USING A FIRE HYDRANT FOR NON-FIREFIGHTING PURPOSES. A CITY HYDRANT METER MUST BE USED. COORDINATE THE ACQUISITION OF THE HYDRANT METER WITH THE CITY'S UTILITY BILLING DIVISION AT PUYALLUP CITY HALL. A CITY APPROVED BACKFLOW PROTECTION ASSEMBLY SHALL BE INSTALLED BY THE PERSON REQUESTING USE OF A FIRE HYDRANT. THE ASSEMBLY SHALL BE ACCOMPANIED BY A CURRENT BACKFLOW ASSEMBLY TEST REPORT. THE TEST REPORT SHALL BE AVAILABLE AT THE SITE FOR THE DURATION OF THE HYDRANT USE.

CITY OF PUYALLUP **SANITARY SEWER NOTES**

- 1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL

 10. ALL SEWER PIPE SHALL BE PVC, POLYPROPYLENE, OR DUCTILE IRON. PVC SEWER ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE SEWER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- 3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- 4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- 5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- 6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- 7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- MINIMUM GRADE ON ALL 4 INCH RESIDENTIAL SIDE SEWERS SHALL BE 2 PERCENT AND 6 INCH COMMERCIAL SIDE SEWERS SHALL BE 1 PERCENT; MAXIMUM SHALL BE 8 PERCENT. ALL SIDE SEWERS SHALL BE 6 INCHES WITHIN CITY RIGHT-OF-WAY.
- 9. SIDE SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD NOS. 04.03.01, 04.03.02, 04.03.03 AND 04.03.04. SIDE SEWER INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT (WISHA).

- PIPE SHALL CONFORM TO ASTM D-3034. SDR35 FOR PIPE SIZES 15-INCH AND SMALLER AND ASTM F679 FOR PIPE SIZES 18- TO 27-INCH, DUCTILE IRON PIPE SHALL BE CLASS 51 OR GREATER, LINED WITH PROTECTO 401TM CITY OF PUYALLUP - CITY STANDARDS SANITARY SEWER REVISED 10/2019 400-8 EPOXY LINING OR EQUIVALENT, UNLESS OTHERWISE NOTED. 12-INCH THROUGH 30-INCH POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(2). IT SHALL MEET OR EXCEED ASTM F2764. 36-INCH THROUGH 60-INCH PP PIPE SHALL BE TRIPLE WALLED AND MEET WSDOT 9-05.24(2). IT SHALL MEET OR EXCEED ASTM F2764. PP SHALL HAVE A MINIMUM PIPE STIFFNESS OF 46 PII WHEN TESTED IN ACCORDANCE WITH ASTM D2412. TESTING SHALL BE PER ASTM F1417. TRENCHING, BEDDING, AND BACKFILL SHALL BE IN ACCORDANCE WITH CITY STANDARD NO. 06.01.01. MINIMUM COVER ON PVC AND PP PIPE SHALL BE 3.0 FEET. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
- 11. SANITARY SEWER MANHOLE FRAMES AND COVERS SHALL CONFORM TO CITY STANDARD NO. 06.01.02.
- 12. SANITARY SEWER MANHOLES SHALL CONFORM TO CITY STANDARD NOS. 04.01.01, 04.01.02, 04.01.03 AND 04.01.04. ALL MANHOLES SHALL BE CHANNELED FOR FUTURE LINES AS SPECIFIED ON THESE PLANS. MANHOLE STEPS AND LADDER SHALL CONFORM TO STANDARD NO. 06.01.03.
- 13. SANITARY SEWER PIPE AND SIDE SEWERS SHALL BE 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- 14. NO SIDE SEWERS SHALL BE CONNECTED TO ANY HOUSE OR BUILDING UNTIL ALL MANHOLES ARE ADJUSTED TO THE FINISHED GRADE OF THE COMPLETED ASPHALT ROADWAY AND THE ASPHALT PATCH AND SEAL AROUND THE RING ARE ACCEPTED.
- 15. FOR COMMERCIAL DEVELOPMENTS IN WHICH SOURCES OF GREASE AND/OR OILS MAY BE INTRODUCED TO THE CITY SANITARY SEWER SYSTEM, A CITY APPROVED GREASE INTERCEPTOR SHALL BE INSTALLED DOWNSTREAM FROM THE SOURCE.
- 16. ONCE SEWER AND ALL OTHER UTILITY CONSTRUCTION IS COMPLETED, ALL SANITARY SEWER MAINS AND SIDE SEWERS SHALL BE TESTED PER SECTION 406

OF THE CITY STANDARDS.





VMS | Proj. Drafter:

Proj. Engineer:

18711 | Project Mgr.:

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NAC NO 121-19038 DRAWN VMS

CHECKED RCH DATE 05/10/2021

UTILITY NOTES AND

DETAILS

SHEET 35 OF 45

REVISIONS

DEVELOPMENT SERVICES DATE_ 5/13/2021 **NOTE**: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE WATER PURVEYOR.

APPROVED

CITY OF PUYALLUP WATER

METER BOX: ARMORCAST POLYMER CONCRETE BOX
A6001640TX12 WITH POLYMER CONCRETE COVER
A6001947TDW AND RPM DROP—IN LID A6000481DT—H7. T 1-1/2" OR 2" METER: SENSUS OMNI R2 READING IN 1 CUBIC FEET FLEX NET TRANSMITTER 520M SINGLE PORT TOUCH COUPLE WITH LEAK DETECTION USE 316 GRADE STAINLESS
 STEEL BOLTS AND TEFLON NUTS
 ON METER FLANGE CONNECTIONS 4-16"X8"X4" SOLID CONCRETE BLOCKS, TYPICAL TWO ON EACH SIDE OF BOX VALVE BOX SHALL BE INSTALLED AS SPECIFIED IN CITY STANDARD 03.01.01 -WATER VALVES AND MAIN VH76-18B-11-66 OR 2" VH77-18B-11-77 OR APPROVED EQUAL 2 LOCATE WIRE WEDGE GATE VALVE WITH 2" SQUARE OPERATING NUT #12 LOCATE WIRE 2"X4" BRASS -NIPPLE FOR 1-1/2" SERVICE INSTALL 2"X1-1/2" BRASS BUSHING ON BACK SIDE OF BRASS 45" BEND FORD PACK JOINT COUPLING -C86-77 OR APPROVED EQUAL 2" POLY PIPE WATER SERVICE LINE -(SEE NOTES 5 AND 6) ALL MATERIALS AND FITTINGS SHALL BE AS SPECIFIED OR AN APPROVED EQUAL. NORMALLY THE WATER METER BOX SHOULD BE LOCATED IN THE PLANTING STRIP. IF SIDEWALK IS AGAINST THE CURB, PLACE METER BOX DIRECTLY BEHIND THE SIDEWALK. THE WATER METER BOX SHALL NOT BE LOCATED IN HARD SURFACES. WHEN UNAVOIDABLE, EXCEPTIONS CAN BE MADE AT END OF CUL-DE-SACS OR PAN HANDLED LOTS.

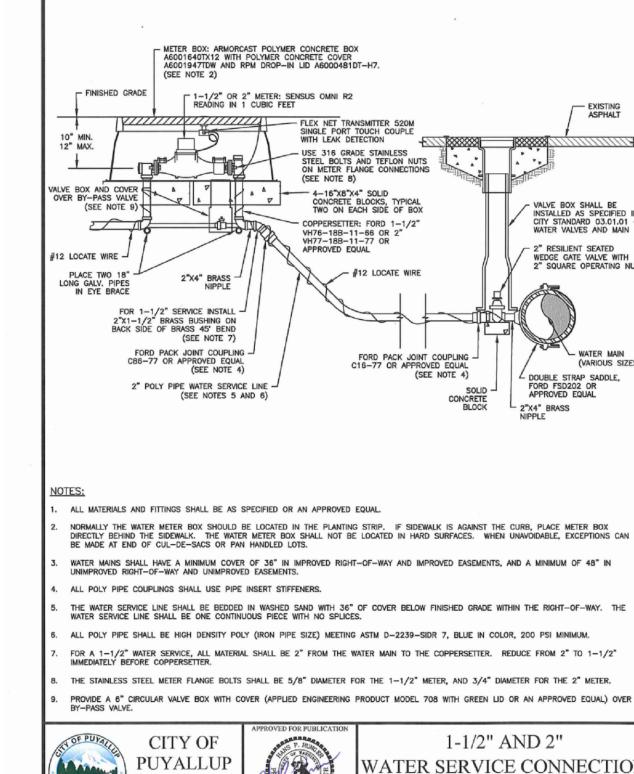
- WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
- ALL POLY PIPE SHALL BE HIGH DENSITY POLY (IRON PIPE SIZE) MEETING ASTM D-2239-SIDR 7, BLUE IN COLOR, 200 PSI MINIMUM.
- THE STAINLESS STEEL METER FLANGE BOLTS SHALL BE 5/8" DIAMETER FOR THE 1-1/2" METER, AND 3/4" DIAMETER FOR THE 2" METER.



WATER SERVICE CONNECTION

WATER SERVICE SCALE: N.T.S.

SCALE: N.T.S.



3" WATER SERVICE
SCALE: N.T.S.

4 FLANGED COUPLING ADAPTOR.

6 * FLANGED TEE.

13 2" GALVANIZED UNION.

(14) 2" GALVANIZED ELL.

5 * FLANGE x MECHANICAL JOINT ADAPTOR.

9 * FLANGE x PLAIN END SPOOL LENGTH AS REQUIRED.

12 2" LOCKING BALL VALVE FORD B11-777W OR APPROVED EQUAL.

15) 2" THREADED GALVANIZED PIPE — CUT TO LENGTH AS REQUIRED.

NOTE: * = 3" ,4" ,OR 6" DEPENDING ON SERVICE LINE SIZE.

* BLIND FLANGE WITH 2" THREADED OUTLET.

(16) 2" ADJUSTABLE GALVANIZED PIPE SUPPORT.

PUYALLUF

OFFICE

1) PRECAST CONCRETE VAULT WITH STANDARD SUMP PIT THAT DRAINS TO DAYLIGHT, IF POSSIBLE, VAULT SHALL BE SUFFICIENTLY SIZED TO MAINTAIN MINIMUM CLEARANCES SPECIFIED ON THIS DETAIL. VAULT SHALL MEET CITY STANDARD 03.11.01, PROVIDE A CUT 2" HOLE IN LID FOR METER TRANSMITTER.

* SENSUS FLANGED C2 OMNI METER WITH BUILT—IN STRAINER WITH TRPL READING IN 1 CUBIC FEET. USE 3/4" DIAMETER 316 GRADE STAINLESS STEEL BOLTS AND TEFLON NUTS ON METER FLANGE CONNECTIONS.

(NST) x 2" MALE IPS THREADED BRASS FIRE HOSE ADAPTOR, 2-1/2" (NST) BRASS NOZZLE CAP.

17) MEGA LUG RING SECURED AGAINST VAULT WALL. MASTIC AND MORTAR SEAL WHERE PIPE PASSES THROUGH VAULT WALL.

1. ALL PIPE, VALVES, FITTINGS AND OTHER MATERIAL USED SHALL CONFORM TO AWWA STANDARDS (LATEST EDITION).

2. ALL CONSTRUCTION SHALL CONFORM TO WSDOT/APWA STANDARDS SPECIFICATIONS, CURRENT EDITION, AND CITY OF PUYALLUP STANDARDS.

<u>PLAN</u>

DCVA (SEE NOTES 3 & 5)

PROFILE

BACKFLOW ASSEMBLY MUST BE SELECTED FROM WASHINGTON STATE DEPARTMENT OF HEALTH'S LIST OF BACKFLOW PREVENTION ASSEMBLIES APPROVED FOR INSTALLATION IN WASHINGTON STATE, LATEST EDITION.

3"-4"-6" WATER SERVICE

(SEE NOTES 7 & 8)

03.04.01

3 FLEX NET TRANSMITTER 520M SINGLE PORT COUPLE WITH LEAK DETECTION. MOUNTED ON METER VAULT LID.

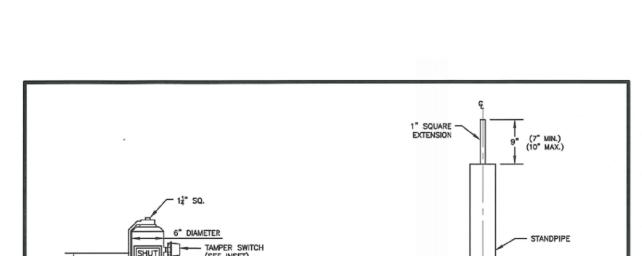
B INSTALL TWO-PIECE, ADJUSTABLE, CAST IRON VALVE BOX AS SPECIFIED IN CITY STANDARD 03.01.01.

* RESILIENT SEATED WEDGE GATE VALVE (FLGxFLG) WITH 2" SQUARE OPERATING NUT.

(B) AN ADDITIONAL * GATE VALVE IS REQUIRED AT THE WATER MAIN BRANCH CONNECTION.







- 1/2"X2" FLAT BAR

(SEE NOTE 4)

WITHOUT WRITTEN APPROVAL FROM PRECAST SUPPLIER AND/OR ENGINEER OF RECORD.

PUYALLUI

OFFICE

THE VAULT SHALL BE PLACED IN A UTILITY EASEMENT OUT OF VEHICLE AND PEDESTRIAN TRAFFIC.

CAST-IN-PLACE VAULTS SHALL BE PERMITTED BY THE CITY'S BUILDING DIVISION PRIOR TO CONSTRUCTION.

1" DEFORMED BAR -

353555555555555555

IF POSSIBLE, DRAIN VAULT TO DAYLIGHT OR APPROVED STORM DRAINAGE STRUCTURE (2% MINIMUM SLOPE). VAULT DRAIN SHALL BE 4" SCH 8

PVC PIPE WITH 1/4" GALVANIZED MESH SCREEN OR APPROVED EQUAL AFFIXED TO PIPE INLET AND OUTFALL. MASTIC AND MORTAR SEAL WHERE DRAIN PIPE PASSES THROUGH SUMP PIT AT FLOOR OF VAULT. WHEN VAULT DRAIN IS INFEASIBLE, A SUMP PUMP SHALL BE INSTALLED MEETING THE REQUIREMENTS OF NOTE 5, CITY STANDARD 03.10.01-2

THE VAULT SHALL BE A PRECAST CONCRETE, SIZED TO MEET THE MINIMUM CLEARANCE REQUIREMENTS SHOWN ON DETAILS 03.03.03, 03.09.01, OR 03.10.01-1. VAULT SHALL BE RATED FOR HS-20 LOADING. NO MODIFICATIONS TO PRECAST CONCRETE VAULT WALLS WILL BE ALLOWED

REMOVABLE DOORS SHALL BE A MINIMUM OF 6'-0" X 3'-0" ALUMINUM DIAMOND PLATE HINGED LOCKING DOORS, WITH HINGES LOCATED AT EACH END OF OPENING, AND WITH COVERED RECESSED PADLOCK HASP. DOORS SHALL BE SPRING LOADED AND LOCK IN THE OPEN POSITION. DOOR AND FRAME SHALL BE RATED FOR HS-20 LOADING.

A GALVANIZED LADDER SHALL BE SET INSIDE THE VAULT FOR ACCESS, IT SHALL BE SECURED TO THE VAULT WITH 1/2 " DIA. BOLTS EPOXIED TO THE VAULT LID AND FLOOR.

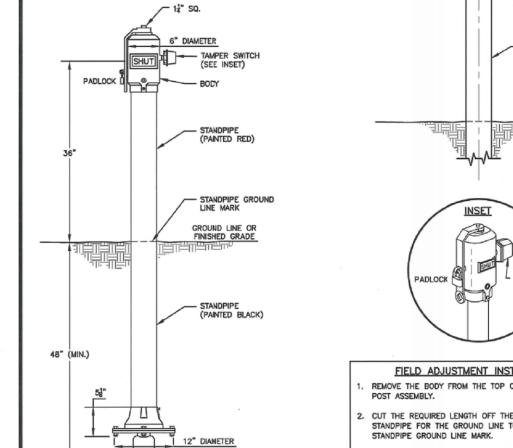
A BILCO LADDER UP SAFETY POST MODEL NO. 2 (OR APPROVED EQUAL) SHALL BE ATTACHED TO AND CENTERED ON THE LADDER STEPS.

BED VAULT IN MINIMUM 6" OF CRUSHED ROCK CONFORMING TO NOTE 2, CITY STANDARD 06.01.01

PRECAST CONCRETE VAUL
 (SEE NOTE 2)

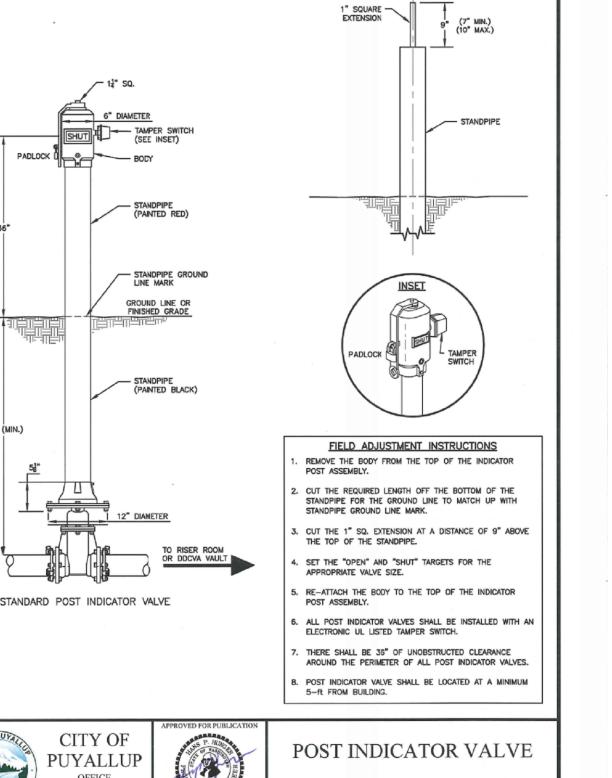
(SEE NOTE 1)

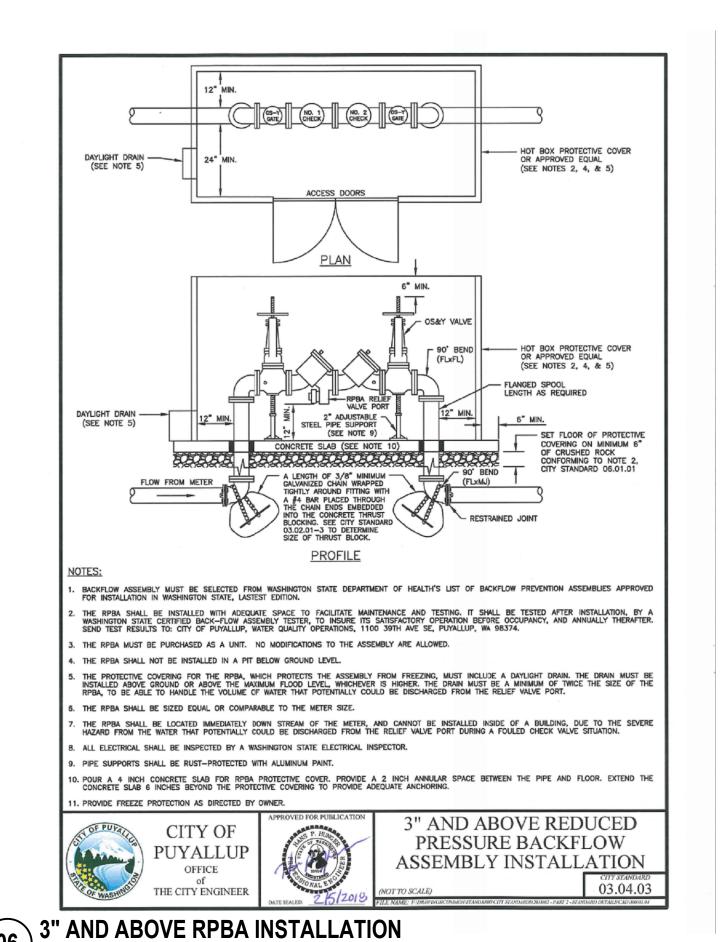
WATER VAULT DETAILS





POST INDICATOR VALVE









Proj. Engineer:

18711 | Project Mgr.:

UTILITY NOTES AND DETAILS SHEET 36 OF 45

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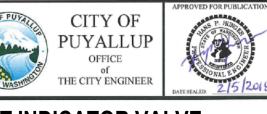
DATE 05/10/2021

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CHECKED RCH

SCALE: N.T.S.

THE DCVA SHALL BE INSTALLED WITH ADEQUATE SPACE TO FACILITATE MAINTENANCE AND TESTING. IT SHALL BE TESTED AFTER INSTALLATION, BY A WASHINGTON STATE CERTIFIED BACK-FLOW ASSEMBLY TESTER, TO INSURE ITS SATISFACTORY OPERATION BEFORE OCCUPANCY, AND ANNUALLY THEREAFTER. SEND TEST RESULTS TO: CITY OF PUYALLUP, WATER QUALITY OPERATIONS, 1100 39TH AVE SE, PLYALLUP, WA 98374. DCVA SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF WATER METER. WHEN IRRIGATION SYSTEM IS CONNECTED OFF DOMESTIC WATER LINE, IRRIGATION DCVA SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF THE BRANCH CONNECTION. METER BOX SHALL BE LARGE ENOUGH TO ALLOW THE MINIMUM SETBACKS ILLUSTRATED ABOVE, METER BOX LID SHALL BE A TRAFFIC LID WITH A H-20 LOADING. DIELECTRIC UNIONS MUST BE USED TO SEPARATE DISSIMILAR MATERIALS. USE ONLY BRASS OR COPPER BETWEEN THE METER AND THE UNION ON THE CUSTOMER'S SIDE OF THE DCVA. 2" AND SMALLER DOUBLE CHECK VALVE ASSEMBLY INSTALLATION OFFICE WATER DOUBLE CHECK VALVE



CITY OF PUYALLUP DEVELOPMENT SERVICES

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

DATE 5/13/2021

DRAWING INDEX

- C7.00 OVERALL WILDWOOD PARK DRIVE OFFSITE STREET LIGHT IMPROVEMENT PLAN
- C7.01 WILDWOOD PARK DRIVE STREET LIGHT PLAN (WEST) C7.02 WILDWOOD PARK DRIVE STREET LIGHT PLAN (WEST)
 C7.03 STREET LIGHT NOTES
 C7.04 STREET LIGHT DETAILS
 C7.05 STREET LIGHT DETAILS





OVERALL OFFSITE STREET LIGHT IMPROVEMENT PLAN

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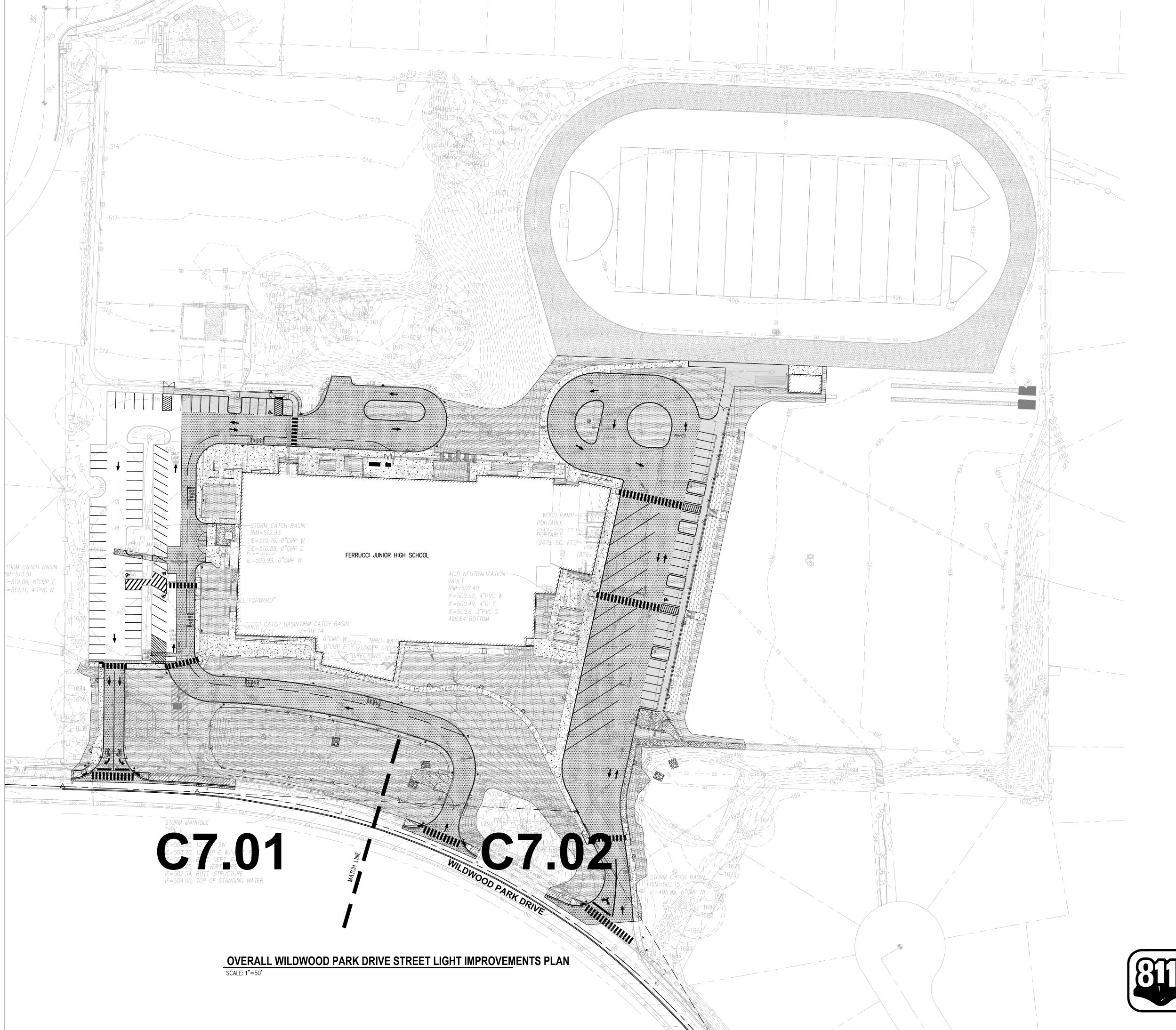
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SHEET 37 OF 45

C7.00



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LEGEND

PROPOSED FEATURES-

- ♦ STREET LIGHT
- BP BP 2" SCH 80 PVC CONDUIT
- - SERVICE CABINET
 - J-B0X

GENERAL NOTES

- 1. STREET LIGHT INSTALLATION SHALL COMPLY TO CITY OF PUYALLUP DETAILS ON SHEETS C7.04 & C7.05.
- 2. LUMINAIRE CLASSIFICATION SHALL COMPLY WITH COLLECTOR ARTERIAL REQUIREMENTS.

ENTERING SIGHT DISTANCE LINE -

- 3. PHOTO CELL SHALL COMPLY WITH DETAIL 01.05.10/C7.05.
- 4. STREET LIGHT FIXTURES SHALL BE LEOTEK GCM1-60J-MV-2R-40K-GY-105-XX.

KEY NOTES

- SERVICE CABINET, SEE DETAILS 01.05.03/C7.04, 01.05.05/C7.04, 01.06.05/C7.05. A SINGLE REMOTE PHOTOCELL SHALL BE INSTALLED AT THE SERVICE CABINET TO CONTROL ALL STREETLIGHTS ALONG FRONTAGE. SHORTING CAPS ARE REQUIRED TO BE INSTALLED ON STREETLIGHTS.
- 2 STREET LIGHT POLE AND BASE, SEE DETAILS 01.05.04/C7.04, 01.05.05/C7.04.

POLE 01

CL POLE BASE

STA 10+10.29, 17.10'LT

12' MAST ARM LENGTH

- 3 2" SCH 80 PVC CONDUIT. 2#8, 1#8G, XLP TYP PER SHEET E1.02.
- 4 POWER SOURCE

PROPERTY LINE -

BP SOURCE

6' WOOD FENCE

____ GAS ____ GAS ____ GAS ____ GAS ___

CALCULATED CENTERLINE -

STATION 10+00 N: 671033.42 E: 1199637.08

- 5 J-BOX, SEE DETAIL 01.06.01/C7.05
- 6 SPARE 2" CONDUIT WITH PULL CORD

POLE SCHEDULE

POLE 02

CL POLE BASE

STA 11+59.91, 17.67'LT

12' MAST ARM LENGTH

BP SOURCE ENTERING SIGHT DISTANCE LINE

PC=STA 11+48.89 -N: 671027.35 E: 1199785.89

11+00

150'±

POLE NUMBER	STA	OFFSET	MAST ARM LENG
POLE 01	10+10.29	17.10 ' LT	12'
POLE 02	11+59.91	17.67 ' LT	12'
POLE 03	13+09.93	15.05'LT	12'

CITY OF PUYALLUP DEVELOPMENT SERVICES DATE 5/13/2021

APPROVED

REVISIONS

PERMIT RESUBMITT

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FERRUCCI JUNIOR
3213 WILDWOOD PARK DR, PUYALLUP, WA 98374

30-03-19 DDITI

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE

CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

POLE 03 STA 13+09.93, 15.05'LT CL POLE BASE 12' MAST ARM LENGTH



WILDWOOD PARK DRIVE STREET LIGHT PLAN - WEST

SCALE: 1"=20'

IE=503.85, 12"CMP SW

IE=509.45, TOP VERT. PIPE

IE=503.70, 12"CMP E W/VERT. PIPE

IE=504.00, TOP OF STANDING WATER





http://www.sittshill.com/ 18711 | Project Mgr.: Proj. Engineer:

WILDWOOD PARK DRIVE STREET LIGHT PLAN - WEST

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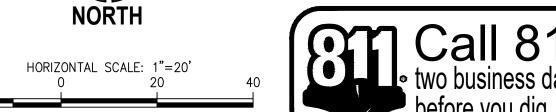
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NAC NO 121-19038

DATE 05/10/2021

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SHEET 38 OF 45



R=790.23 ——

Δ=N 33D58'11" E L=772.78

LEGEND

PROPOSED FEATURES-

- ♦ STREET LIGHT
- ₽ P 2" SCH 80 PVC CONDUIT
- --- BP --- SPARE CONDUIT WITH PULL CORD
- SERVICE CABINET
- J-BOX

GENERAL NOTES

- 1. STREET LIGHT INSTALLATION SHALL COMPLY TO CITY OF PUYALLUP DETAILS ON SHEET C7.04 & C7.05.
- 2. LUMINAIRE CLASSIFICATION SHALL COMPLY WITH COLLECTOR ARTERIAL
- 3. PHOTO CELL SHALL COMPLY WITH DETAIL 01.05.10/C7.05.
- 4. STREET LIGHT FIXTURES SHALL BE LEOTEK GCM1-60J-MV-2R-40K-GY-105-XX.

KEY NOTES

1 NOT USED

STREET LIGHT POLE AND BASE, SEE DETAILS 01.05.04/C7.04, 01.05.05/C7.04.

3 2" SCH 80 PVC CONDUIT. 2#8, 1#8G, XLP TYP PER SCHEET E1.02.

4 NOT USED

5 J-BOX, SEE DETAIL 01.06.01/C7.05

6 SPARE 2" CONDUIT WITH PULL CORD

POLE SCHEDULE

OLE NUMBER	STA	OFFSET	MAST ARM LENGT
POLE 04	14+69.72	15.95'LT	12'
POLE 05	15+69.95	19.22 ' LT	12'
POLE 06	17+08.00	20.90'LT	12'

CITY OF PUYALLUP

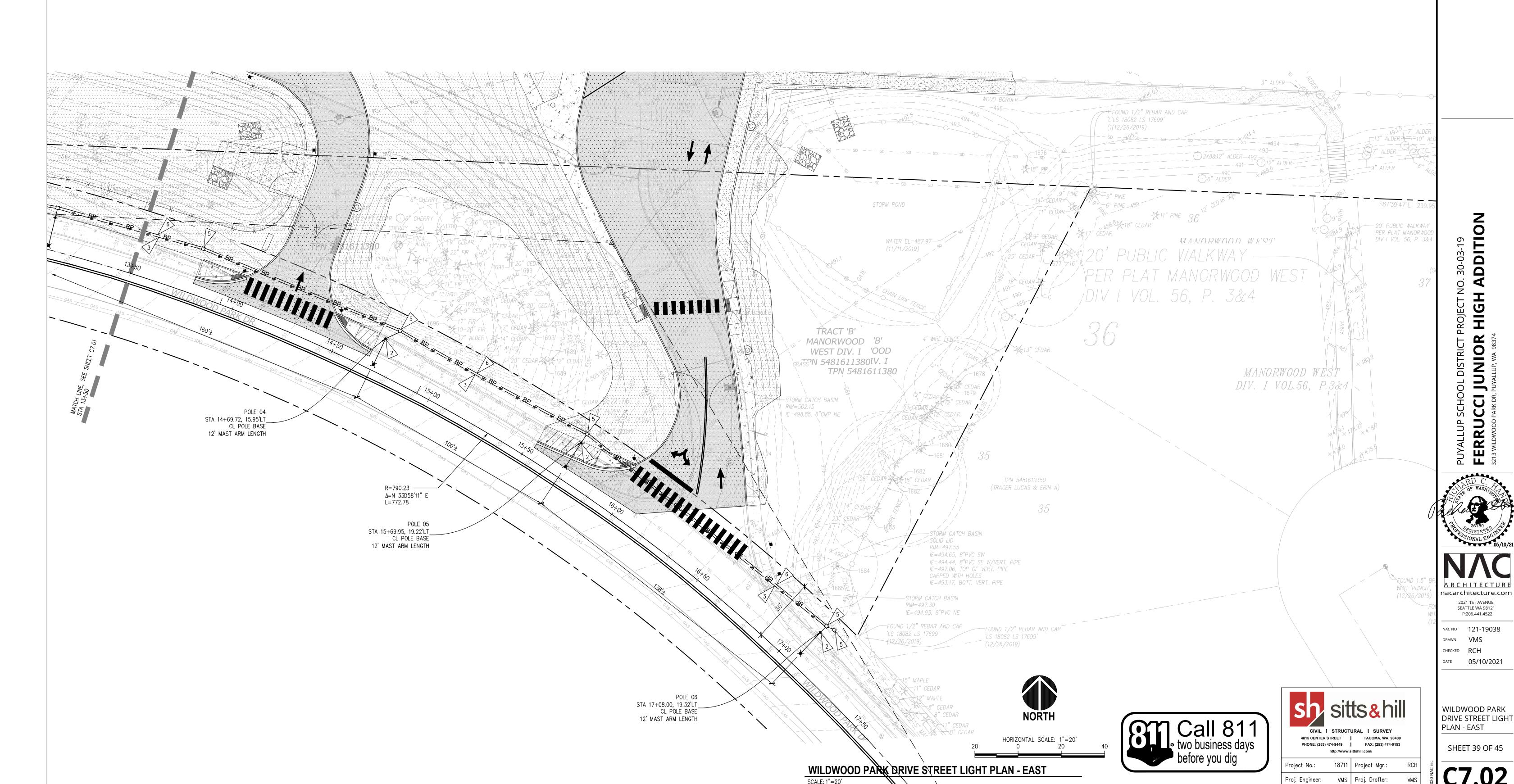
DEVELOPMENT SERVICES DATE__5/13/2021

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES

PERMIT RESUBMITTAL

REVISIONS



1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.

2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER

3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").

4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.

5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.

6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.

7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.

8. MONUMENTS SHALL BE INSTALLED AT ALL STREET INTERSECTIONS, AT ANGLE POINTS, AND POINTS OF CURVATURE IN EACH STREET. ALL BOUNDARY MONUMENTS MUST BE INSTALLED ACCORDING TO THE WASHINGTON STATE SUBDIVISION LAWS.

9. CURB AND GUTTER INSTALLATION SHALL CONFORM TO CITY STANDARD DETAIL 01.02.09.

10. SIDEWALKS AND DRIVEWAYS SHALL BE INSTALLED AS LOTS ARE BUILT ON. SIDEWALKS AND DRIVEWAYS SHALL CONFORM TO CITY STANDARD DETAIL 01.02.01, 01.02.02 AND 01.02.12. IF ASPHALT IS DAMAGED DURING REPLACEMENT OF CURB AND GUTTER, THE REPAIR SHALL CONFORM TO CITY STANDARD DETAIL 01.02.10.

11. THE SURROUNDING GROUND (5 FEET BEYOND THE BASE) FOR ALL POWER TRANSFORMERS, TELEPHONE/TV PEDESTALS, AND STREET LIGHT MAIN DISCONNECTS SHALL BE GRADED TO A POSITIVE 2 PERCENT SLOPE FROM TOP OF CURB.

12. SIGNAGE AND TRAFFIC CONTROL DEVICES ARE SAFETY ITEMS AND SHALL BE INSTALLED PRIOR TO ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY OR PLAT APPROVAL. HOWEVER, IN LARGER DEVELOPMENTS, EXACT LOCATIONS OF STOP AND YIELD SIGNS MAY NEED TO BE DETERMINED AFTER FULL BUILDOUT WHEN TRAFFIC PATTERNS HAVE BEEN ESTABLISHED. IN THIS CASE, CONTRACTOR SHALL PROVIDE INDICATED "CITY-PLACED" SIGNS, SIGNPOSTS, AND BRACKETS TO THE CITY SIGN SPECIALIST (253) 841-5471 FOR LATER INSTALLATION BY THE CITY. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

13. PRIOR TO ANY SIGN OR STRIPING INSTALLATION OR REMOVAL THE CONTRACTOR SHALL CONTACT THE CITY SIGN SPECIALIST (253) 841-5471 TO ARRANGE FOR AN ON-SITE MEETING TO DISCUSS PLACEMENT AND UNIFORMITY.

14. NEW OR REVISED STOP SIGNS OR YIELD SIGNS SHALL BE ADVANCE WARNED USING THE PROCEDURE OUTLINED IN THE MUTCD. ADVANCE WARNING SIGNS AND FLAGS SHALL BE MAINTAINED BY INSTALLER FOR 30 DAYS AND THEN REMOVED.

ILLUMINATION NOTES

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH CITY OF PUYALLUP PUBLIC WORKS STANDARDS AND WSDOT STANDARDS AND SPECIFICATIONS.
- 2. THE LOCATIONS OF FEATURES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION START.
- 3. UTILITY LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY ILLUMINATION WORK.
- 4. ALL WORK SHALL BE CONSISTENT WITH UTILITY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE WITH AFFECTED UTILITY AGENCIES THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.
- 5. CONDUIT LOCATIONS ARE SHOWN FOR ILLUSTRATIVE PURPOSES. ACTUAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD.
- 6. CONTRACTOR SHALL COORDINATE WITH THE CITY SIGNAL/ILLUMINATION TECHNICIAN AT 253.405.4390 PRIOR TO
- 7. THE LOCATION OF ALL CONDUITS, JUNCTION BOXES, POLES, AND CABINETS SHOWN ON THIS PLAN MAY BE ADJUSTED IN THE FIELD TO AVOID CONFLICTS AND MEET ADA REQUIREMENTS. ALL FINAL LOCATIONS SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER PRIOR TO CONSTRUCTION.
- 8. JUNCTION BOX LOCATIONS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. JUNCTION BOXES SHALL BE FIELD LOCATED BY THE CONTRACTOR WITH DIRECTION FROM THE CITY.
- 9. CONTRACTOR SHALL ADJUST JUNCTION BOX LIDS TO BE FLUSH WITH TOP OF SIDEWALK.
- 10. ANY NEW JUNCTION BOX WHICH WILL BE LOCATED WITHIN OR PARTIALLY WITHIN SIDEWALK SHALL HAVE LIDS AND FRAMES WITH A NON-SLIP COATING ON THE TOP SURFACE EQUAL TO MEBAC1 OR SLIPNOT#3.

APPROVED BY Joseph Berkey

DATE 5/13/2021

THE CITY WILL NOT BE

DETERMINED BY THE ENGINEERING SERVICES

MANAGER.

NOTE: THIS APPROVAL IS VOID

AFTER 180 DAYS FROM APPROVAL

RESPONSIBLE FOR ERRORS AND/

OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE

CHANGES TO THESE PLANS AS

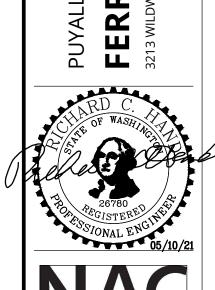
CITY OF PUYALLUP DEVELOPMENT SERVICES

PERMIT RESUBMIT

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REVISIONS

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NAC NO 121-19038

STREET LIGHT NOTES

CIVIL | STRUCTURAL | SURVEY 4815 CENTER STREET | TACOMA, WA. 98409

http://www.sittshill.com/

SHEET 40 OF 45



a. DIMENSIONS

STREETLIGHT STANDARDS SHALL PROVIDE A FIXTURE MOUNTING HEIGHT OF 30'0" PLUS OR MINUS 6" WITH A TYPICAL 12 FOOT MAST ARM WITH A THREE FOOT OVERHANG.

BASE PLATE SHALL HAVE SLOTTED HOLES TO ACCOMMODATE 1-INCH ANCHOR BOLTS, AND 11 1/2" BOLT CIRCLE WITH MINIMUM CLEARANCE OF 1" BETWEEN BOLT AND POLE.

HANDHOLE CENTER SHALL BE LOCATED APPROXIMATELY 12 INCHES FROM THE BASE PLATE. ROTATED 270 DEGREES FROM MAST ARM SO AS THE HANDHOLE IS LOCATED ON THE SIDE OPPOSING ONCOMING TRAFFIC.

STRENGTH

POLES SHALL MEET ALL STRENGTH REQUIREMENTS OF AASHTO FOR 90 MPH ISOTACH WHEN USED WITH A LUMINAIRE WEIGHING 48 POUNDS WITH A E.P.A. OF 1.1 SQUARE FEET. ALL ATTACHING BOLTS AND SCREWS THAT ARE NOT GALVANIZED SHALL BE STAINLESS STEEL.

THE POLES AND ALL HARDWARE SAHALL BE HOT DIPPED GALVANIZED, MINIMUM 3 MIL THICKNESS.

- d. MAST ARM ATTACHMENT SHALL BE SECURED BY 3 BOLTS.
- e. EACH POLE SHALL HAVE HANDHOLE (WITH COVER), GROUND LUG AND REMOVABLE POLE CAP.
- f. EACH CITY POLE SHALL HAVE A BLACK 4" TO 6" LETTER C STENCILED ON ROADWAY SIDE OF POLE 16" ABOVE GRADE.

- a. POLES SHALL BE ANCHORED WITH 4 BOLTS, 1"X36"X4" #8UNC WITH HOT DIPPED GALVANIZING AFTER THREADS ARE CUT. GALVANIZED AREA SHALL EXTEND FROM THREADED END FOR A MINIMUM OF 12 INCHES. BOLTS SHALL BE PROVIDED WITH 2 GALVANIZED NUTS AND FLAT WASHERS FOR LEVELING. SHIMS WILL NOT BE USED.
- b. A NON-SHRINKING GROUT SHALL BE INSTALLED WITH ONE 1/2" DRAIN HOLE UNDER THE BASE PLATE AFTER THE ENGINEER HAS APPROVED THE POLE INSTALLATION.

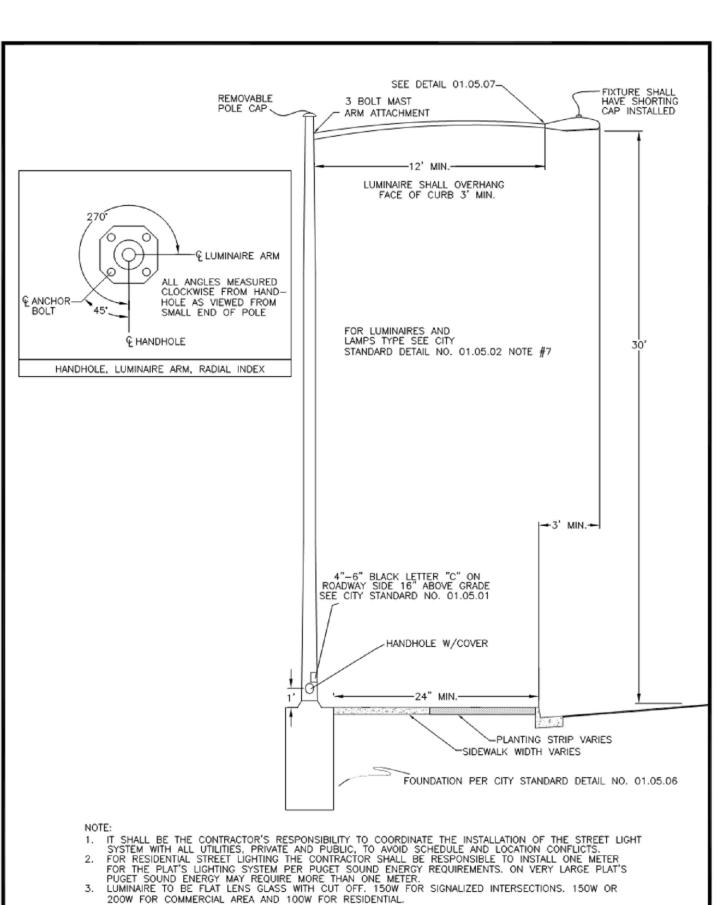
ALL CONDUIT SHALL BE BURIED A MINIMUM OF 24 INCHES DEEP. ALL ROADWAY CROSSINGS SHALL BE RIGID METALLIC OR SCHEDULE 80 PVC. CONDUIT SHALL CONFORM TO SECTION 9-29 OF WSDOT STANDARD SPECIFICATIONS. SCHEDULE 80 PVC MAY BE USED IN LOCATIONS OTHER THAN ROADWAY CROSSINGS.



STREET LIGHT **SPECIFICATIONS**

COMMON/STDS/CITY/2009/01_STR/01.05/01.05.01

STREET LIGHT



(STR LIGHT SPECS CONTINUED)

JUNCTION BOXES (WHEN REQUIRED) JUNCTION BOXES SHALL BE INSTALLED AT LOCATIONS AS SHOWN ON THE PLANS. THEY WILL CONFORM TO WSDOT STANDARD PLAN J-40.10-02, TYPE 1. THEY SHALL BE LEVEL WITH THE SIDEWALK GRADE AND FIRMLY BEDDED TO PREVENT FUTURE SETTLING. JUNCTION BOXES ARE PREFERRED NOT TO BE INSTALLED IN THE SIDEWALK. THE COVER SHALL BE GALVANIZED AND GROUNDED. THE LETTERS "LT" SHALL BE ETCHED ON THE COVER. (SEE CITY STANDARD DETAIL NO. 01.06.01). IF THE JUNCTION BOX IS NOT IN THE SIDEWALK THEN IT SHALL HAVE A CONCRETE COLLAR. IF THE JUNCTION BOX IS IN THE SIDEWALK THEN IT SHALL HAVE A NON-SLIP SURFACE

CONDUCTORS, WIRES, ETC.

WIRE CONDUCTORS FOR UNDERGROUND FEEDER RUNS AND FOR CIRCUITRY FROM THE IN-LINE FUSE IN THE POLES TO THE JUNCTION BOX SHALL BE 600 VOLT, SINGLE CONDUCTOR STRANDED COPPER AND INSULATED WITH USE GRADE POLYVINYL CHLORIDE COMPOUND (XLP) OR APPROVED EQUAL IN ACCORDANCE WITH THE INSULATED POWER CABLE ENGINEER'S ASSOCIATION SPECIFICATIONS. AN AWG NO. 8 GREEN INSULATED STRANDED COPPER WIRE WILL BE RUN TO THE SERVICE GROUND LUG ON EACH POLE. FEEDERS SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, WIRES INSIDE THE POLE BETWEEN BALLAST AND IN-LINE FUSES SHALL BE ROME 2C AWG 10 STRANDED POLE AND BRACKET WIRE OR APPROVED EQUAL. SPLICES WILL BE ALLOWED IN JUNCTION BOXES AND POLE BASES ONLY. NO MORE THAN 2 CONDUITS WILL BE ALLOWED INSIDE THE STREET POLE

LUMINARE FUSING AND ELECTRICAL CONNECTIONS AT LIGHT STANDARD BASES SHALL CONFORM TO SECTION 9-29.7 OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS AND AS SHOWN ON THE UNIFORM LUMINARE WIRING DETAIL IN THE APPENDIX. IN-LINE FUSE HOLDERS SHALL BE SEC MODEL 1791-SF WITH FNM-5 FUSES OR APPROVED EQUAL. (REFER TO CITY STANDARD DETAIL NO. 01.06.01)

LUMINAIRES AND LAMPS

RESIDENTIAL STREETS AND NEIGHBORHOOD COLLECTORS: LEOTEK LED GC1-40E-MV-NW-2-530 (67 WATT LED)

ARTERIALS AND COMMERCIAL COLLECTORS: GE EVOLVE LED ERS2-E-0-HX-EX-5-40 (130 WATT LED)

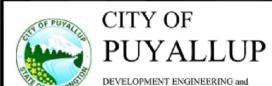
THE CITY WILL ENERGIZE THE STREET LIGHTS WHEN A HOME IS OCCUPIED ADJACENT TO A STREET LIGHT OR IMMEDIATELY ACROSS THE STREET. AT THE DEVELOPER'S REQUEST, STREET LIGHTS MAY BE ENERGIZED PRIOR TO OCCUPANCY OF HOMES. HOWEVER, THE DEVELOPER OR BUILDER SHALL ASSUME FULL RESPONSIBILITY FOR ELECTRICAL POWER COSTS AND REPAIR COSTS DUE TO VANDALISM, THEFT, OR CONSTRUCTION.

SAFE WIRING LABELS

THE CONTRACTOR IS ADVISED THAT SAFE WIRING LABELS REQUIRED BY LABOR AND INDUSTRIES SHALL APPLY ON THIS PROJECT. (ELECTRICAL INSPECTION STICKER)

THE CONTRACTOR SHALL SURRENDER TO THE CITY OF PUYALLUP ANY GUARANTEE OR WARRANTY ACQUIRED BY HIM AS A NORMAL TRADE PRACTICE IN CONNECTION WITH THE PURCHASE OF ANY MATERIALS OR ITEMS USED IN THE CONSTRUCTION OF THE ILLUMINATION.

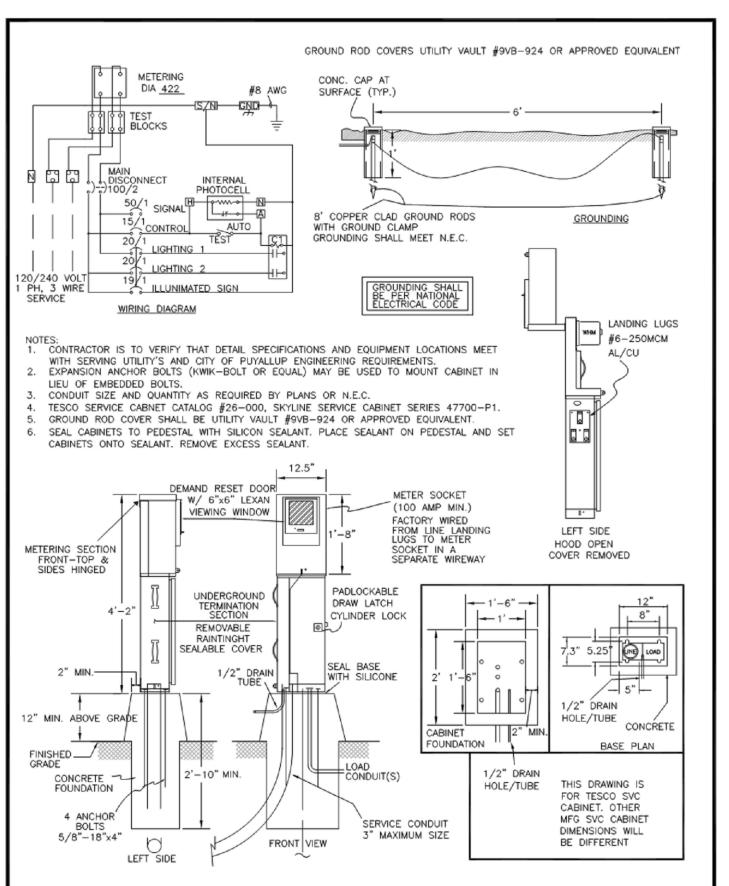
SEE CITY STANDARD SECTION 01.01 ROADWAY DESIGN.

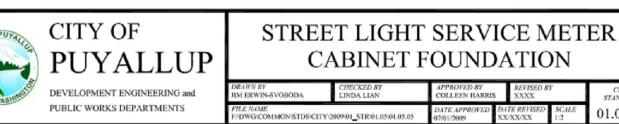


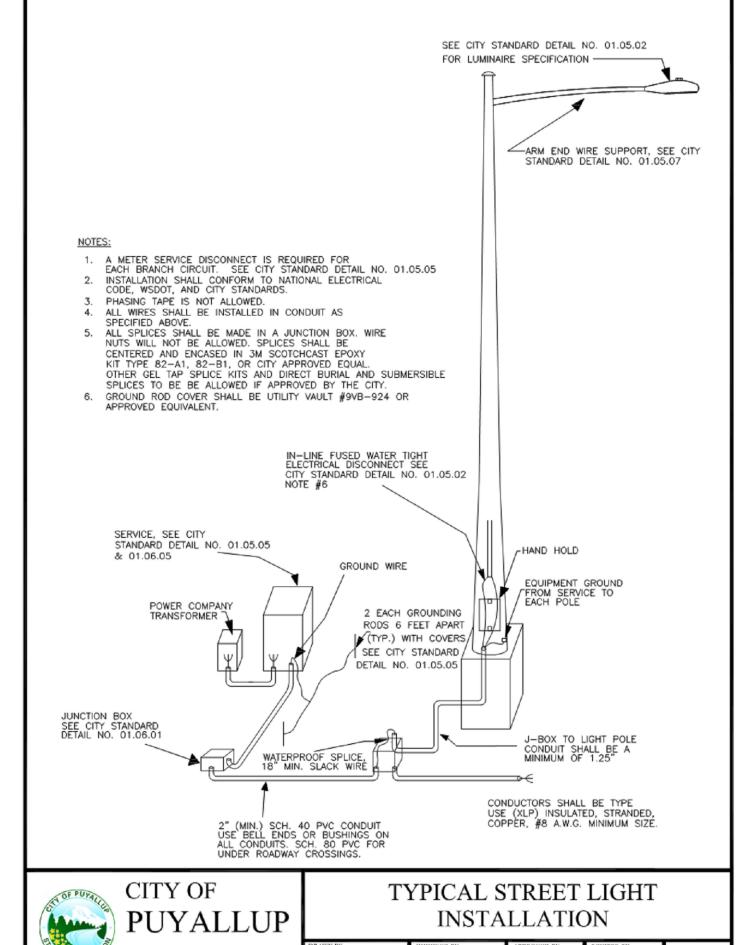
PUBLIC WORKS DEPARTMENTS

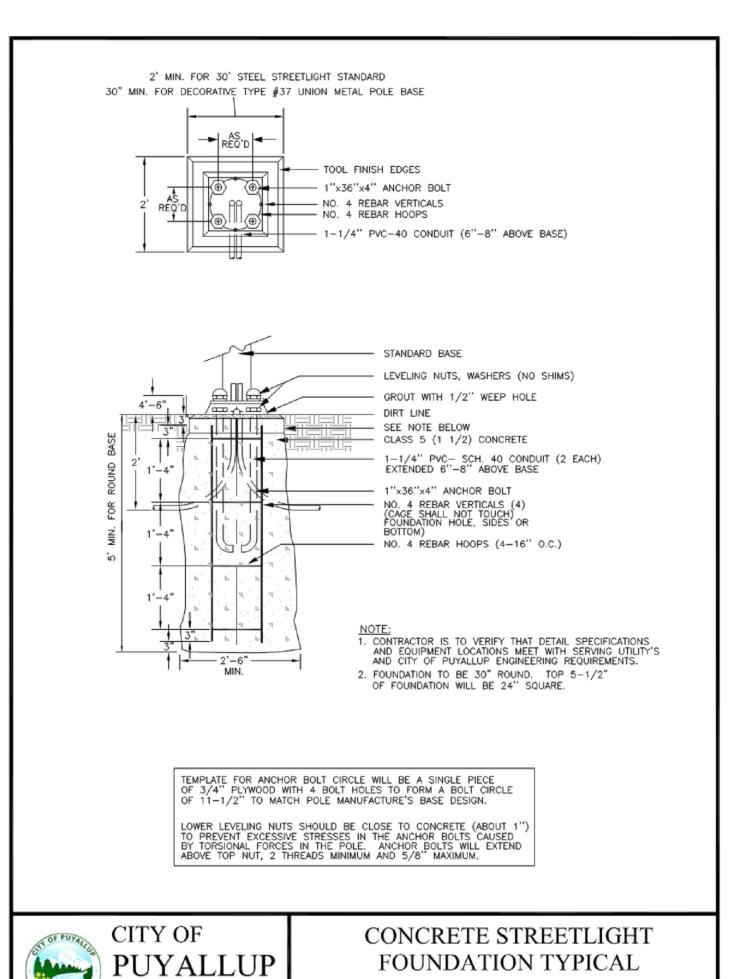
STREET LIGHT SPECIFICATIONS (CONT.)

DRAWN BY	CHECKED BY	APPROVED BY	REVISED B		CITY
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	LINDA LIA		STANDARD
FILE NAME F*DWG/COMMON'STDS/CI	TY\2009\01_STR\01.05\01.05.02	DATE APPROVED 07/01/2009	DATE REVISED 02/25/2015	SCALE 1:1	01.05.02





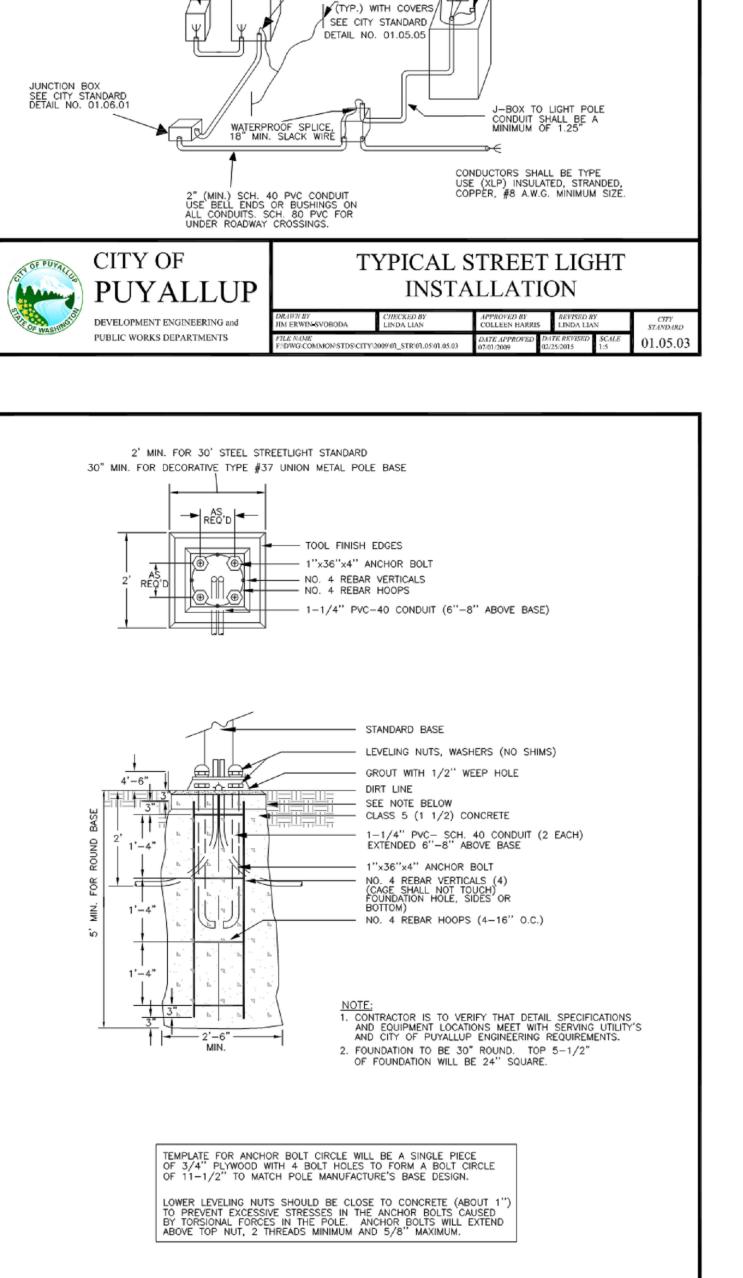




DEVELOPMENT ENGINEERING and

PUBLIC WORKS DEPARTMENTS

01.05.05



Call 81 **⊥**• two business days

DATE APPROVED | DATE REVISED | SCALE | 01.05.06



roject No.:

Proj. Engineer:

18711 | Project Mgr.:

VMS | Proj. Drafter:

CITY OF PUYALLUP

L Berkey

DEVELOPMENT SERVICES

NOTE: THIS APPROVAL IS VOID

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OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE

CHANGES TO THESE PLANS AS

DATE 5/13/2021

THE CITY WILL NOT BE

DETERMINED BY THE

MANAGER.

ENGINEERING SERVICES

DATE.

Z ERRU

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2021 1ST AVENUE SEATTLE WA 98121

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NAC NO 121-19038

DATE 05/10/2021

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CITY OF

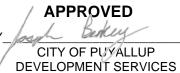
PUYALLUP

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REVISIONS **APPROVED**

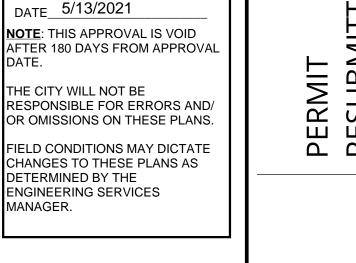
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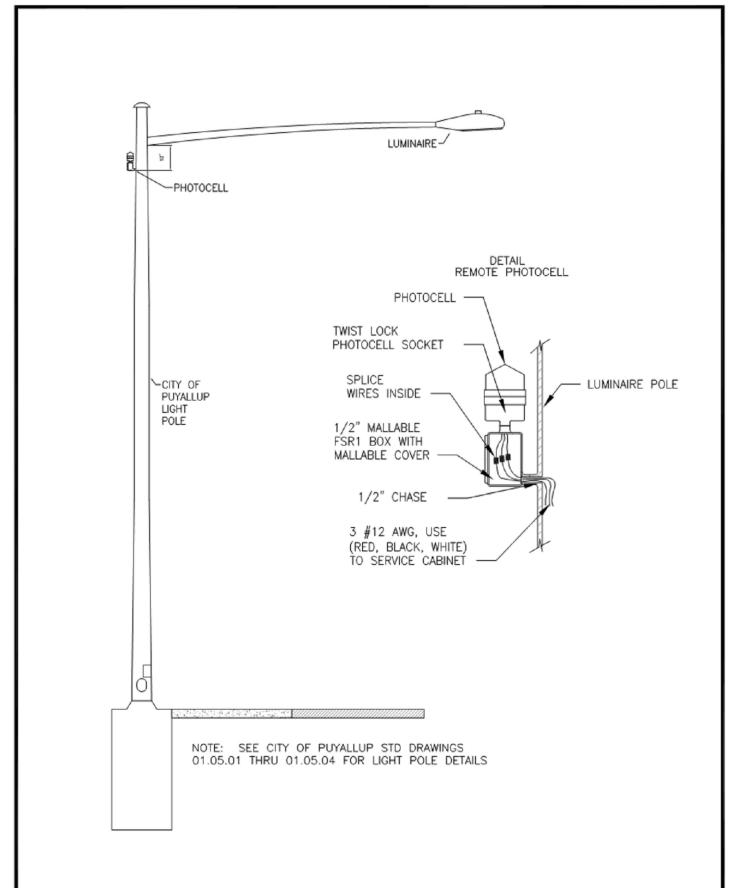


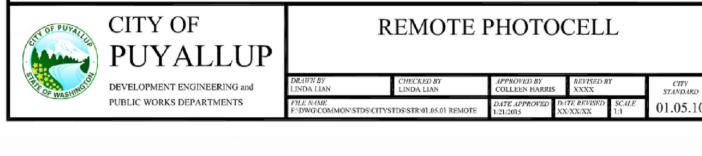
DATE 5/13/2021 **NOTE**: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

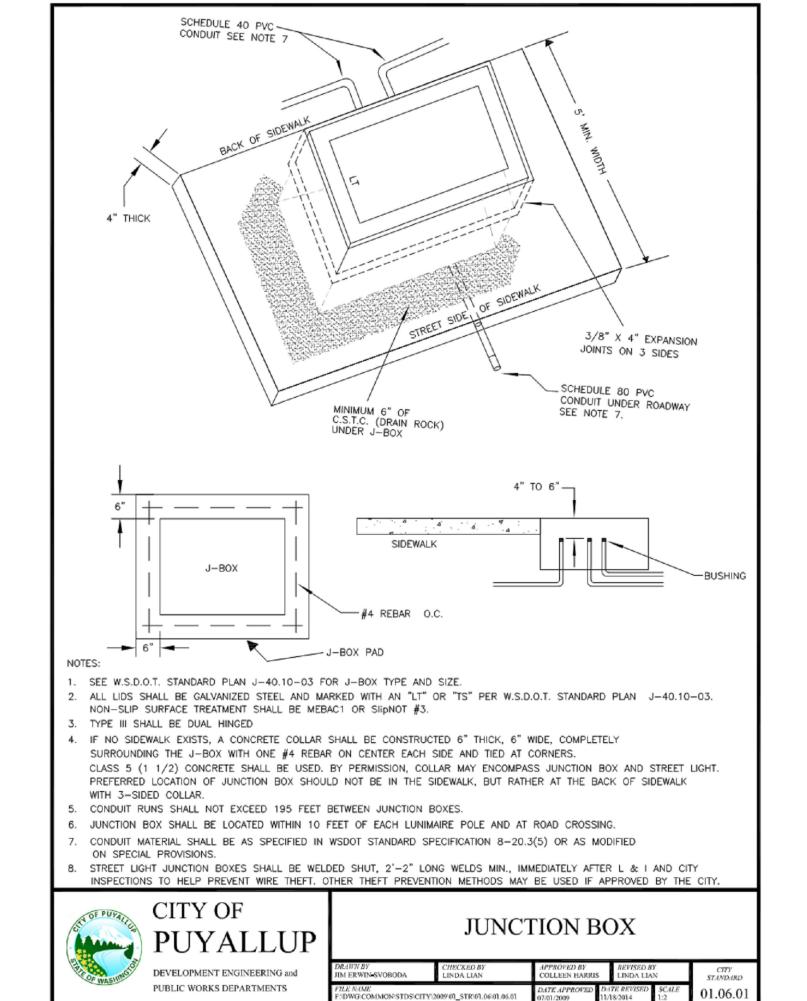
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/ OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE

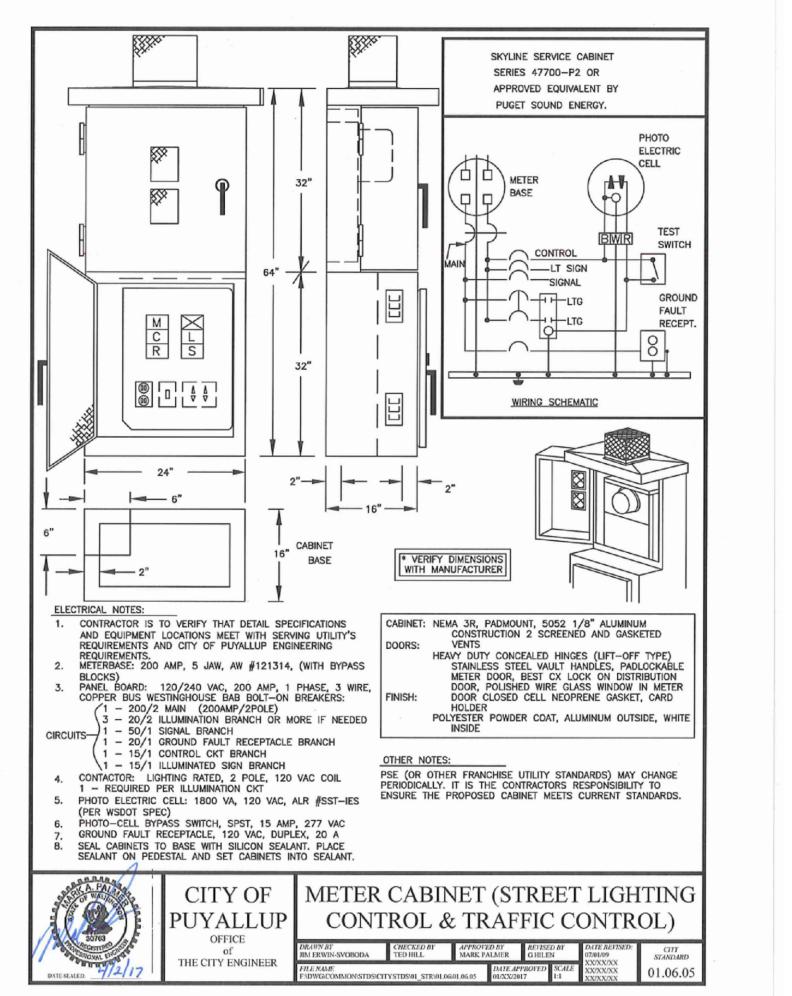
MANAGER.











NOTE: INSTALL 3 SETS OF CONTACTORS TO GO WITH THE 3 DOUBLE PULL 20 AMP BREAKERS TO ALLOW FOR EASE OF EXPANSION FOR FUTURE STREETLIGHTING SYSTEMS.





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1 1/2" X 3/4" REDUCING WASHER

POLE AND BRACKET WIRE

LOCK NUT

SIDE VIEW

FRONT VIEW

1 1/2" X 3/4" REDUCING WASHER

STREET LIGHT POLE AND BRACKET

WIRE SUPPORT AT ARM END

STANDARD MAST ARM END

STANDARD MAST ARM END _____

3/4" ROMEX CONNECTOR

1.50"

CITY OF

PUYALLUP

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3/4" ROMEX CONNECTOR

CITY OF PUYALLUP DEVELOPMENT SERVICES

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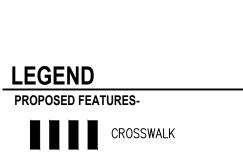
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DATE 05/10/2021

OFFSITE WILDWOOD PARK DRIVE CHANNELIZATION PLAN

SHEET 43 OF 45



CROSSWALK

GENERAL NOTES

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

KEY NOTES

PROVIDE "ONLY" PAVEMENT MARKING PER DETAILS 1 AND 3/C8.02.

2 PROVIDE STOP BAR PAVEMENT MARKING PER CITY DETAIL 01.03.11/C8.01.

3 PROVIDE CROSSWALK PAVEMENT MARKING PER CITY DETAIL 01.03.11/C8.01.

4 PROVIDE "STOP" SIGN AND POST PER CITY DETAILS 01.04.01 AND 01.04.02/C8.01.

5 PROVIDE R5-1, 30"x30" "DO NOT ENTER" SIGN AND POST PER DETAIL 01.04.01 AND 01.04.02/C8.01. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH CITY TRAFFIC ENGINEER.

6 CUSTOM REGULATORY SIGN, BLACK TEXT ON WHITE BACKGROUND 18"x24", "BUS/STAFF VEHICLES ONLY". CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH CITY TRAFFIC ENGINEER.

8 PROVIDE R6-2 ONE WAY RIGHT ON POST PER CITY DETAIL 01.04.01/C8.01.

9 PROVIDE R6-2 ONE WAY LEFT ON POST PER CITY DETAIL

PROVIDE DOUBLE YELLOW STRIPE AND RPM'S PER CITY DETAIL 01.03.10/C8.01, DETAIL C.

PROVIDE DOUBLE YELLOW STRIPE PER CITY DETAIL 01.03.10/C8.01, DETAIL C (NO RPM'S).

12 PROVIDE 4" WIDE WHITE PAINT STRIPE.



OFFSITE WILDWOOD PARK DRIVE CHANNELIZATION PLAN

Call 811 two business days before you dig





Proj. Engineer: VMS Proj. Drafter:

6' WOOD FENCE

CALCULATED CENTERLINE —

STATION 10+00 N: 671033.42 E: 1199637.08

10+00-

100 BB

PC=STA 11+48.89 -N: 671027.35 E: 1199785.89

R=790.23 Δ=N 33D58'11" E L=772.78

IE=503.85, 12"CMP SW

IE=509.45, TOP VERT. PIPE

IE=502.54, BOTT. STRUCTURE

IE=503.70, 12"CMP E W/VERT. PIPE

IE=504.00, TOP OF STANDING WATER

R=790.23 ——

L=772.78

Δ=N 33D58'11" E

TRACT 'B'

MANORWOOD

WEST DIV. I '(GRASS N 5481611380 N

TPN 548161

1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.

2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER

3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"). WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").

4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.

5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.

6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.

7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.

8. MONUMENTS SHALL BE INSTALLED AT ALL STREET INTERSECTIONS, AT ANGLE POINTS, AND POINTS OF CURVATURE IN EACH STREET. ALL BOUNDARY MONUMENTS MUST BE INSTALLED ACCORDING TO THE WASHINGTON STATE SUBDIVISION LAWS.

9. CURB AND GUTTER INSTALLATION SHALL CONFORM TO CITY STANDARD DETAIL 01.02.09.

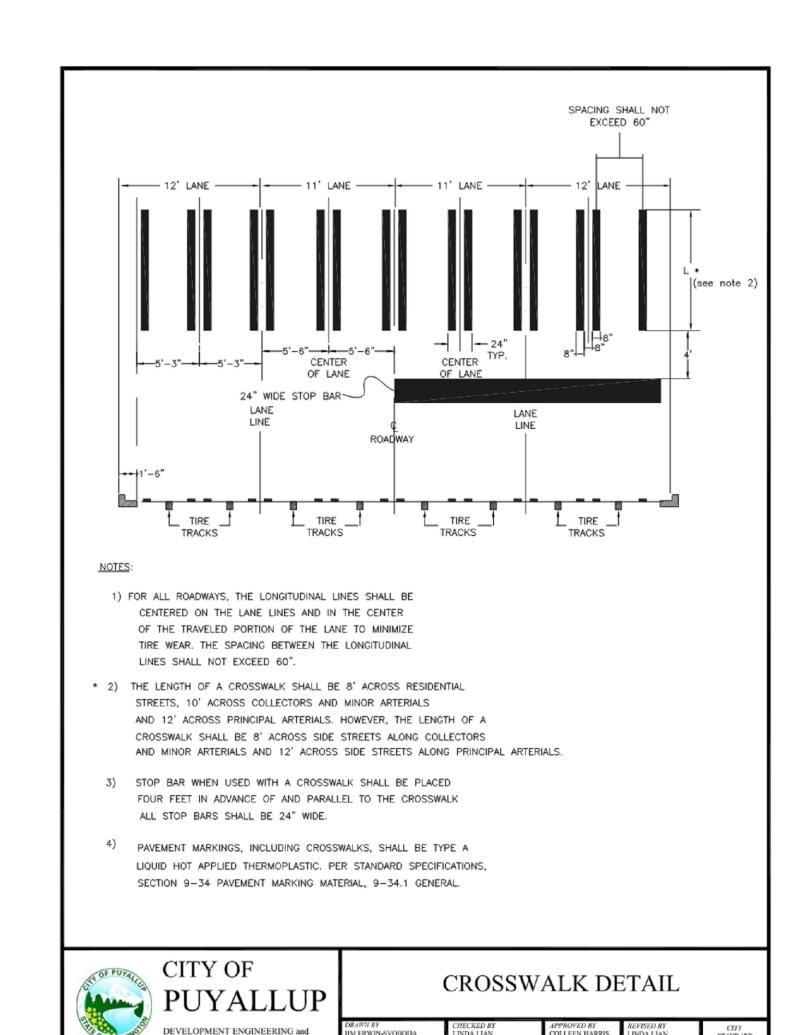
10. SIDEWALKS AND DRIVEWAYS SHALL BE INSTALLED AS LOTS ARE BUILT ON. SIDEWALKS AND DRIVEWAYS SHALL CONFORM TO CITY STANDARD DETAIL 01.02.01, 01.02.02 AND 01.02.12. IF ASPHALT IS DAMAGED DURING REPLACEMENT OF CURB AND GUTTER, THE REPAIR SHALL CONFORM TO CITY STANDARD DETAIL 01.02.10.

11. THE SURROUNDING GROUND (5 FEET BEYOND THE BASE) FOR ALL POWER TRANSFORMERS, TELEPHONE/TV PEDESTALS, AND STREET LIGHT MAIN DISCONNECTS SHALL BE GRADED TO A POSITIVE 2 PERCENT SLOPE FROM TOP OF CURB.

12. SIGNAGE AND TRAFFIC CONTROL DEVICES ARE SAFETY ITEMS AND SHALL BE INSTALLED PRIOR TO ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY OR PLAT APPROVAL. HOWEVER, IN LARGER DEVELOPMENTS, EXACT LOCATIONS OF STOP AND YIELD SIGNS MAY NEED TO BE DETERMINED AFTER FULL BUILDOUT WHEN TRAFFIC PATTERNS HAVE BEEN ESTABLISHED. IN THIS CASE, CONTRACTOR SHALL PROVIDE INDICATED "CITY-PLACED" SIGNS, SIGNPOSTS, AND BRACKETS TO THE CITY SIGN SPECIALIST (253) 841-5471 FOR LATER INSTALLATION BY THE CITY. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

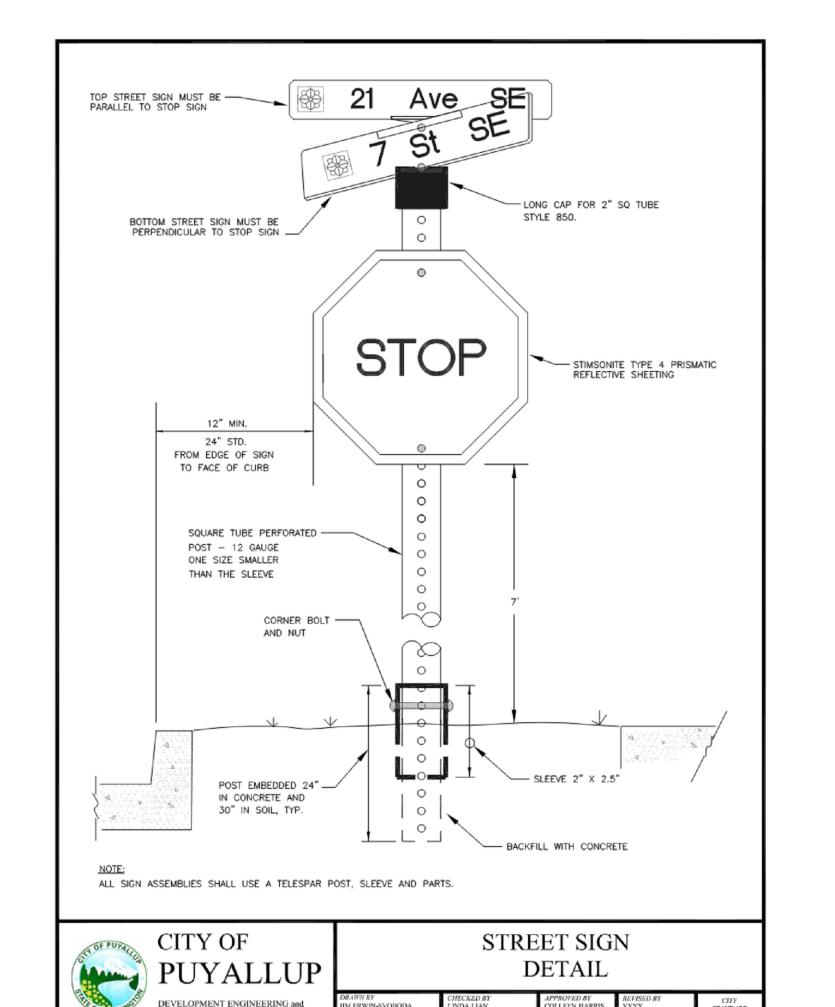
13. PRIOR TO ANY SIGN OR STRIPING INSTALLATION OR REMOVAL THE CONTRACTOR SHALL CONTACT THE CITY SIGN SPECIALIST (253) 841-5471 TO ARRANGE FOR AN ON-SITE MEETING TO DISCUSS PLACEMENT AND UNIFORMITY.

14. NEW OR REVISED STOP SIGNS OR YIELD SIGNS SHALL BE ADVANCE WARNED USING THE PROCEDURE OUTLINED IN THE MUTCD. ADVANCE WARNING SIGNS AND FLAGS SHALL BE MAINTAINED BY INSTALLER FOR 30 DAYS AND THEN REMOVED.

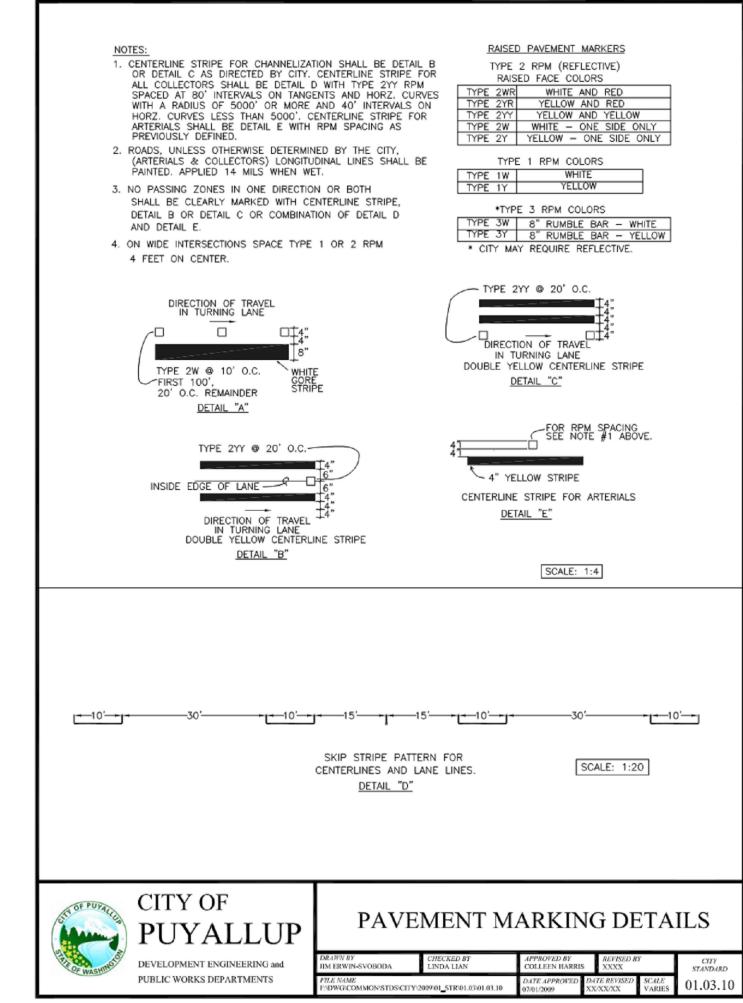


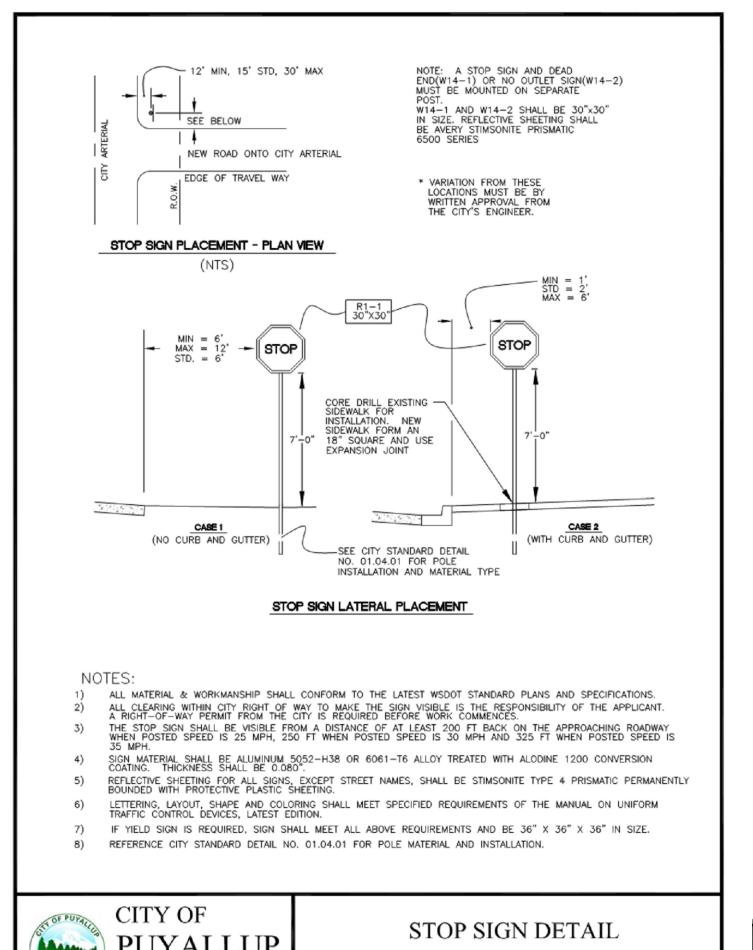
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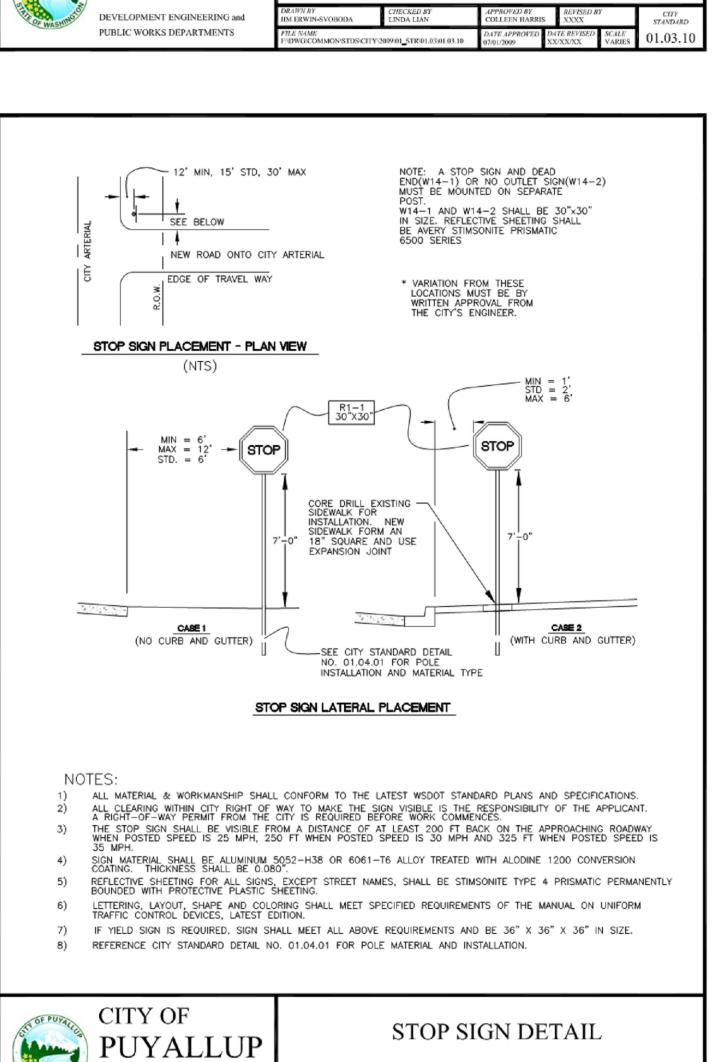


01.03.11





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DATE 5/13/2021

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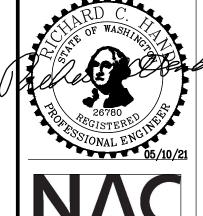
FIELD CONDITIONS MAY DICTATE

CHANGES TO THESE PLANS AS

Berkey CITY OF PUYALLUP DEVELOPMENT SERVICES

> RMIT SUBMIT шш





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SHEET 44 OF 45

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FERRU 3213 WILDWOOD P

CITY OF PUYALLUP DEVELOPMENT SERVICES NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL THE CITY WILL NOT BE

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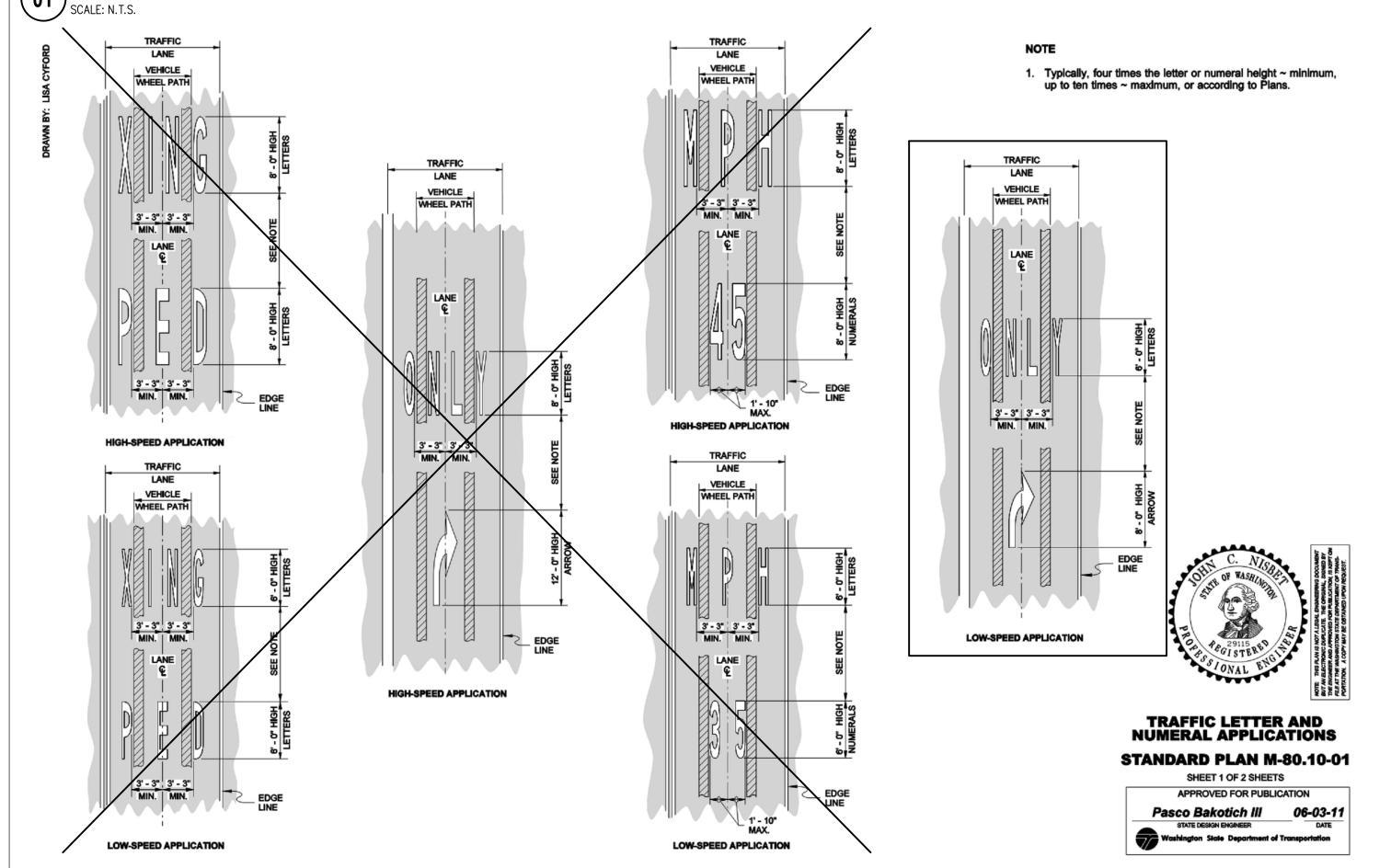
DATE 5/13/2021

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SYMMETRICAL ABOUT & NOTE SYMBOL & LANE & Use the dimensions shown on this plan for each type of Traffic Arrow being placed on roadways with a posted speed limit of 40 mph or lower. SYMBOL & LANE & SYMBOL -& LANE _ 1' - 8" | 8" | 1' - 0" MARKING AREA 7.73 SQ.FT. TYPE 2SR (RIGHT) ELLIPSE "B" -TRAFFIC ARROW MIRROR IMAGE OF TYPE 2SL TRAFFIC ARROW (SHOWN AT REDUCED SCALE) MARKING AR 12.86 SQ T SYMBOL & LANE & GRID IS 4" (IN) SQUARE ELLIPSE " TYPE 4S TRAFFIC ARROW 1' - 6" \ 1' - 2" ELLIPSE "A"\ - ELLIPSE "A" 10" ~ ELLIPSE "B" AXIS TYPE 1S TRAFFIC ARROW - ELLIPSE "B" MARKING AREA 14.83 SQ.FT. OF ELLIPSES TYPE 3SR (RIGHT) TRAFFIC ARROW GRID IS 4" (IN) OF ELLIPSES MIRROR MAGE OF TYPE 3SL TRANFIC ARROW (SHOWN AT REDUCED SCALE) Wast_ Apr 16 2015 2:21 PM SYMBOL MARKINGS ~ GRID IS 4" (IN) SQUARE MARKING ARE 14.83 SQ.FT. LOW-SPEED ROADWAYS STANDARD PLAN M-24.40-02 MARKING AREA 7.73 SQ.FT. SHEET 1 OF 2 SHEETS APPROVED FOR PUBLICATION Pane Behiller Apr 20 2015 10:11 AM TYPE 3SL (LEFT) TRAFFIC ARROW STATE DESIGN ENGINEER 10" ~ ELLIPSE "B" AXIS -Washington State Department of Transportation TYPE 2SL (LEFT) TRAFFIC ARROW

01 TRAFFIC ARROW PAVEMENT MARKINGS
SCALE: N.T.S.



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SHEET 45 OF 45

"ONLY" TRAFFIC MRKINGS
SCALE: N.T.S.