E. INTERNATIONAL PLUMBING CODE (IPC)

THE WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CHEHALIS ENGINEERING DEVELOPMENT CODE (HEREAFTER "STANDARD SPECIFICATIONS") AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.

ALSO INCORPORATED INTO THESE CONTRACT DOCUMENTS BY REFERENCE ARE:

A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
B. LEWIS COUNTY ROW STANDARDS
C. LEWIS COUNTY DRAINAGE STANDARDS
D. THE INTERNATIONAL BUILDING CODE (IBC)

CURRENT EDITIONS OF THESE STANDARDS SHALL BE USED WHICH EXIST ON THE DATE OF CONTRACT ACCEPTANCE.

CONTRACTOR SHALL OBTAIN COPIES OF THESE PUBLICATIONS AT CONTRACTOR'S OWN EXPENSE.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, SUPPLIES, AND INCIDENTALS REQUIRED TO COMPLETE ALL WORK SHOWN ON THESE DRAWINGS AND TO OBTAIN ACCEPTANCE BY THE COUNTY AND THE

THE INTENT OF THESE DRAWINGS IS TO PRESCRIBE A COMPLETE WORK. OMISSIONS FROM THE DRAWINGS OF DETAILS OF WORK WHICH ARE NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING THE OMITTED

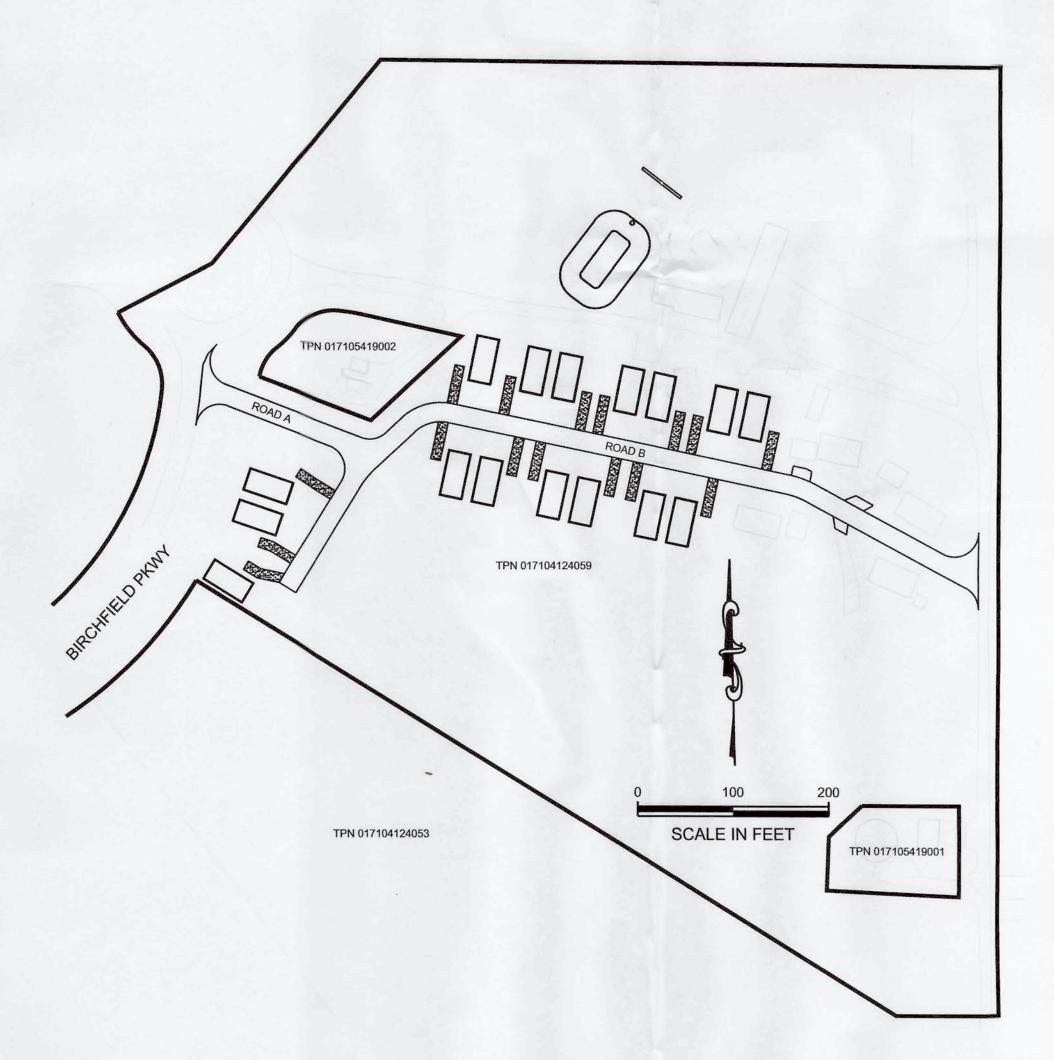
ANY PROPOSED ALTERATIONS BY THE CONTRACTOR AFFECTING THE REQUIREMENTS AND INFORMATION IN THESE DRAWINGS SHALL BE IN WRITING AND WILL REQUIRE APPROVAL OF THE ENGINEER AND

### **CONSTRUCTION NOTES**

- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR BEING FAMILIAR WITH THE PROVISIONS AND REQUIREMENTS CONTAINED IN JURISDICTIONAL STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL HAVE A COPY AVAILABLE AT THE JOB SITE AT ALL TIMES
- 2. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY
  COMPANIES 48 HOURS PRIOR TO COMMENCEMENT OF WORK
  ADJACENT TO EXISTING UTILITY LINES UNLESS AN ENCROACHMENT
- 3. THE CONTRACTOR SHALL PROVIDE EMERGENCY TELEPHONE
  NUMBERS TO THE POLICE, FIRE, AND PUBLIC WORKS
  DEPARTMENTS AND KEEP THEM INFORMED DAILY REGARDING
  STREETS UNDER CONSTRUCTION AND DETOURS. DETOURS SHALL
  NOT BE PERMITTED UNLESS APPROVED IN WRITING BY THE PUBLIC
- 4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT
  BARRICADES TO PROVIDE FOR THE SAFETY OF THE GENERAL
  BURLIC TO THE SATISFACTION OF THE BURLIC WORKS DIRECTOR
- ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- 6. THE CONTRACTOR SHALL CONFORM TO EXISTING STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC., AND AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS
- 7. THE CONTRACTOR SHALL COORDINATE ALL NECESSARY UTILITY RELOCATIONS, IF REQUIRED, WITH THE APPROPRIATE UTILITY
- 8. THE CONTRACTOR SHALL CONDUCT ALL GRADING OPERATIONS IN SUCH A MANNER AS TO PRECLUDE WIND BLOWN DIRT AND DUST AND RELATED DAMAGE TO NEIGHBORING PROPERTIES. SUFFICIENT WATERING TO CONTROL DUST IS REQUIRED AT ALL TIMES. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR CLAIMS RELATED TO WIND BLOWN MATERIAL. IF THE DUST CONTROL IS INADEQUATE AS DETERMINED BY THE PUBLIC WORKS DIRECTOR OR HIS DESIGNATED REPRESENTATIVE, THE CONSTRUCTION WORK SHALL
- 9. SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE LEWIS COUNTY, WA DEVELOPMENT GUIDELINES AND PUBLIC WORKS STANDARDS, AS WELL AS THE WSDOT STANDARD SPECIFICATIONS, WHICH ARE HERE BY REFERENCED AS PART OF THESE PLANS.
- THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THIS PLAN DOES NOT REPRESENT A DETAILED FIELD SURVEY.
- 11. CAUTION NOTICE TO CONTRACTOR THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE, THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
- 12. ALL DETAILS PROVIDED IN THESE PLANS SHALL BE APPLIED TO ALL APPLICABLE PROPOSED CONSTRUCTION, REGARDLESS OF WHETHER OR NOT SPECIFIC REFERENCES TO APPLICABLE DETAILS ARE MADE.
- 13. POST CONSTRUCTION SOIL QUALITY AND DEPTH BMP DETAIL 1/C11
- SHALL BE APPLIED TO ALL DISTURBED PERVIOUS AREAS.

  14. SEE SHEET C14 FOR ADDITIONAL NOTES.

# BIRCHFIELD MOBILE HOME PARK 1 ONALASKA, WA CIVIL IMPROVEMENTS PLANS





# VICINITY MAR

### PROJECT DATA

PARCEL:	017104124059
APPLICANT:	VIRGIL FOX
SITE ADDRESS:	221 BIRCHFIELD PKWY
	ONALASKA, WA 98570
ZONING:	RDD-10
SITE AREA:	16.33 AC (PER COUNTY DATA)
GRADING QUANTITIES:	CUT: 2,102 CY
	FILL: 2,020 CY
	NET: 82 CY (CUT)
SANITARY SEWER:	CITY SEWER VIA LIFT STATION
WATER:	CITY WATER
FIRE DISTRICT:	LEWIS COUNTY FIRE DISTRICT #1
DU'S SERVED BY PRIVATE ROAD:	20

### SITE COVERAGE DATA

EXISTING HARD SURFACE:	0	SF
EXISTING HARD SURFACE TO REMAIN:	0	SF
REPLACED HARD SURFACE:	0	SF
CONVERTED IMPERVIOUS TO PERVIOUS:	0	SF
NEW HARD SURFACE:	43,473	SF
TOTAL NEW & REPLACED HARD SURFACE:	43,473	SF
TOTAL HARD SURFACE AFTER PROJECT:	43,473	SF
EFFECTIVE HARD SURFACE:	0	SF
DISTURBED AREA:	140,602	SF

### GEOTECHNICAL INFORMATION

A GEOTECHNICAL REPORT WAS NOT PREPARED FOR THIS PROJECT. IN LIEU OF A REPORT, ALL CONSTRUCTION SHALL COMPLY WITH THE STANDARD SPECIFICATIONS REFERENCED.

### BASIS OF BEARING

LEWIS COUNTY BOUNDARY LINE ADJUSTMENT NO. 21-0013 AS RECORDED UNDER AUDITOR'S FILE NUMBER 3553269, RECORDS OF LEWIS COUNTY, WASHINGTON

# TOPOGRAPHIC DATA

TOPOGRAPHIC INFORMATION DEPICTED IN THESE DRAWINGS WAS PROVIDED IN A SURVEY BY BUTLER SURVEYING, PROVIDED ON 9/18/2023.

ALL EXISTING FEATURES AND TOPOGRAPHY SHOWN SHALL BE VERIFIED PRIOR TO BEGINNING CONSTRUCTION. ANY AND ALL DISCREPANCIES FOUND BETWEEN ACTUAL EXISTING CONDITIONS AND THE EXISTING CONDITIONS SHOWN HERE SHALL BE IDENTIFIED TO THE PROJECT ENGINEER PRIOR TO CONTINUANCE OF ANY WORK.

VERTICAL DATUM IS ASSUMED.

# WORK IN COUNTY RIGHT OF WAY

CONTRACTOR SHALL OBTAIN A RIGHT OF WAY PERMIT PRIOR TO COMMENCING ANY WORK LOCATED IN THE COUNTY'S RIGHT OF WAY. ALL WORK PERFORMED IN THE COUNTY'S RIGHT OF WAY SHALL ADHERE TO DRAWINGS, STANDARD SPECIFICATIONS, AND REQUIREMENTS OUTLINED IN THE RIGHT OF WAY PERMIT.

## **RECORD DRAWINGS**

THE IRIS GROUP IS REQUIRED BY THE COUNTY TO PROVIDE RECORD DRAWING CERTIFICATION PRIOR TO FINAL COUNTY ACCEPTANCE. THE IRIS GROUP WILL NOT CERTIFY RECORD DRAWINGS WITHOUT INSPECTION OF BELOW GRADE UTILITIES AND STRUCTURES. PRIOR TO BACKFILLING, CONTRACTOR SHALL NOTIFY THE IRIS GROUP OF NECESSARY INSPECTIONS.

# SHEET LIST

14 C14

SHEET	TITLE	
C1	COVER	
C2	HORIZONTAL CONTROL	
C3	DEMOLITION AND TESC	
C4	SITE	
C5	ROAD A PLAN AND PROFILE	
C6	ROAD B PLAN AND PROFILE	
C7	GRADING	
C8	DRAINAGE	
C9	SANITARY SEWER	
C10	WATER	
C11	DETAILS 1	
C12	DETAILS 2	
C13	DETAILS 3	
	C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12	C1 COVER C2 HORIZONTAL CONTROL C3 DEMOLITION AND TESC C4 SITE C5 ROAD A PLAN AND PROFILE C6 ROAD B PLAN AND PROFILE C7 GRADING C8 DRAINAGE C9 SANITARY SEWER C10 WATER C11 DETAILS 1 C12 DETAILS 2



VN 13N KNG 1W WM 04124053 IFIELD PKWY (A, WA 98570

OVER

PROJ. NO:

VF01

REVIEWED BY:

NDT

DESIGNED BY:

NDT

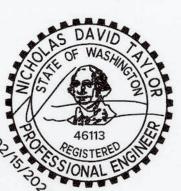
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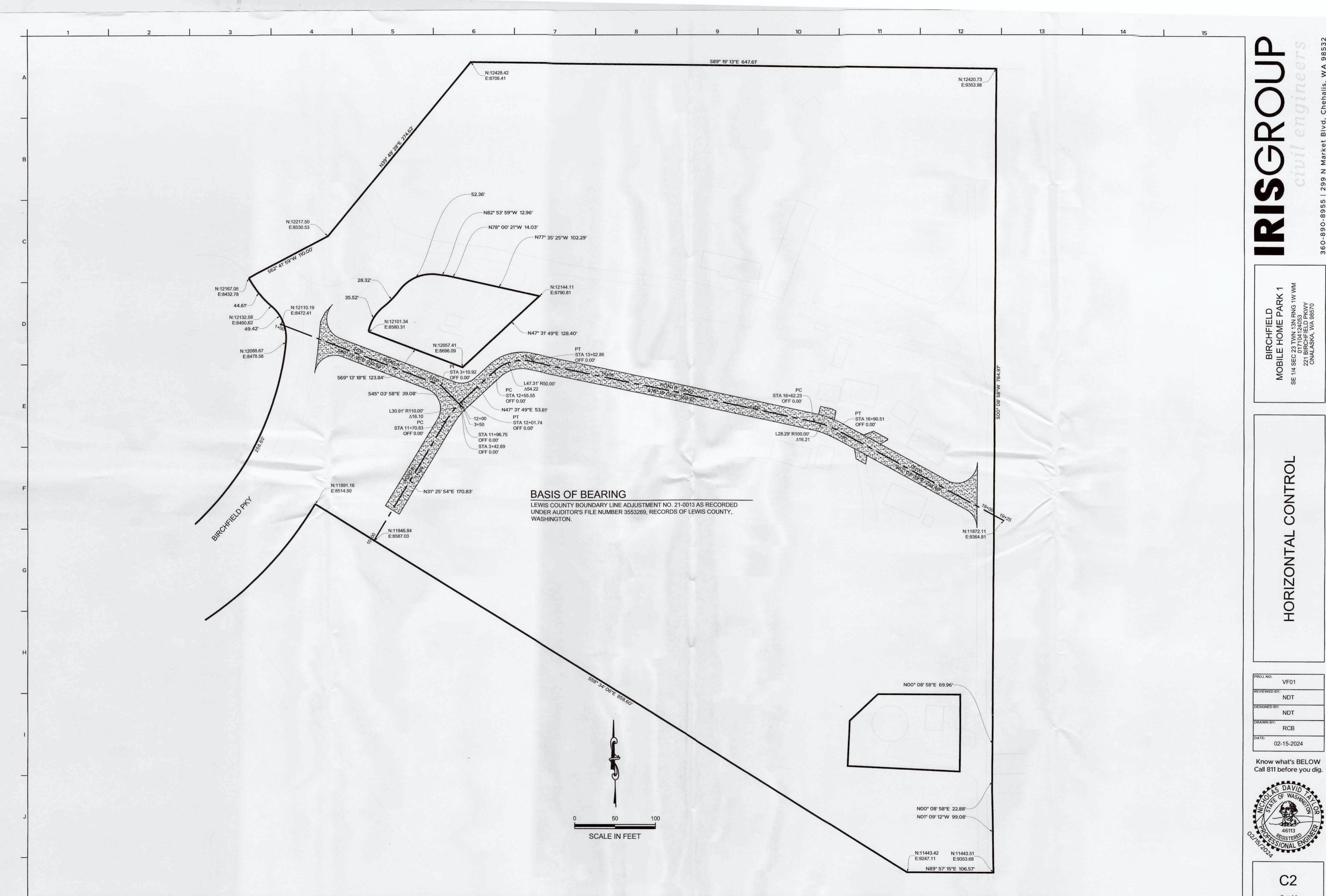
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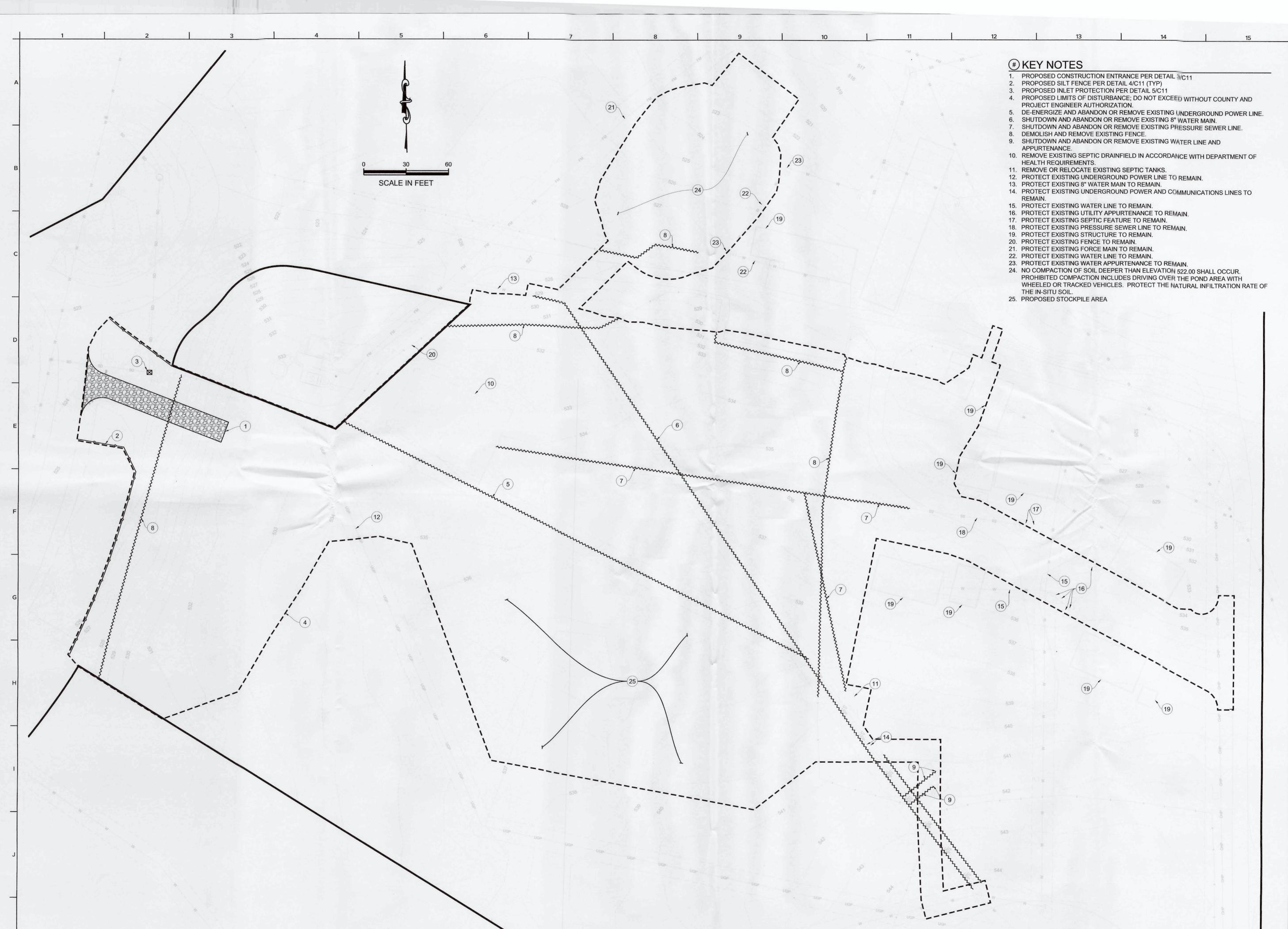
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C1

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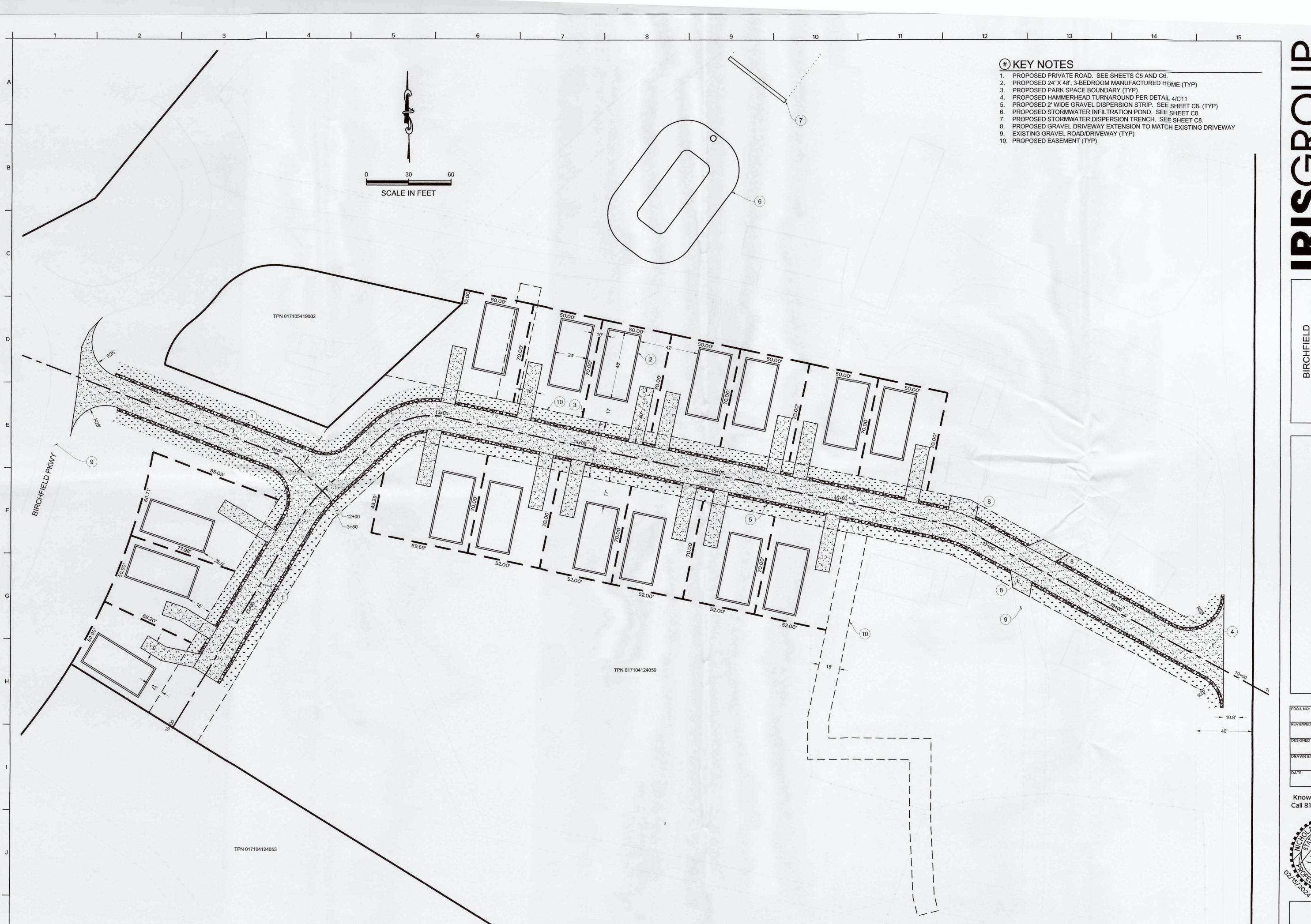


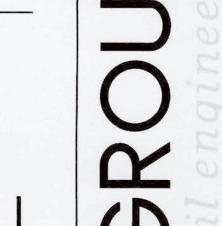


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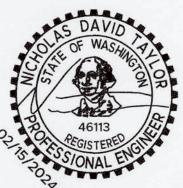




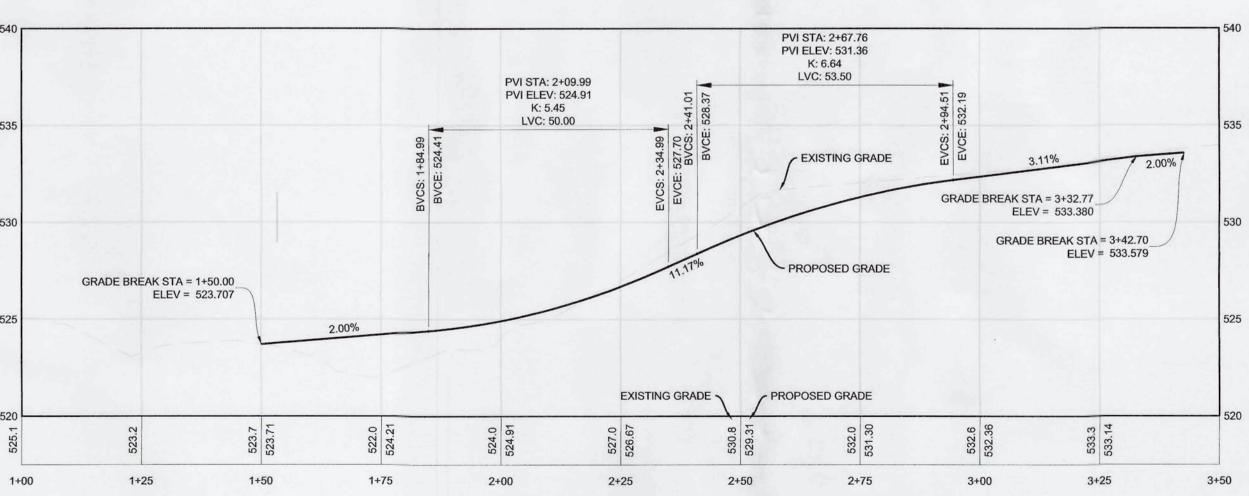


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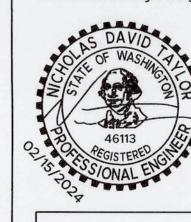
HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE : 1" = 5'

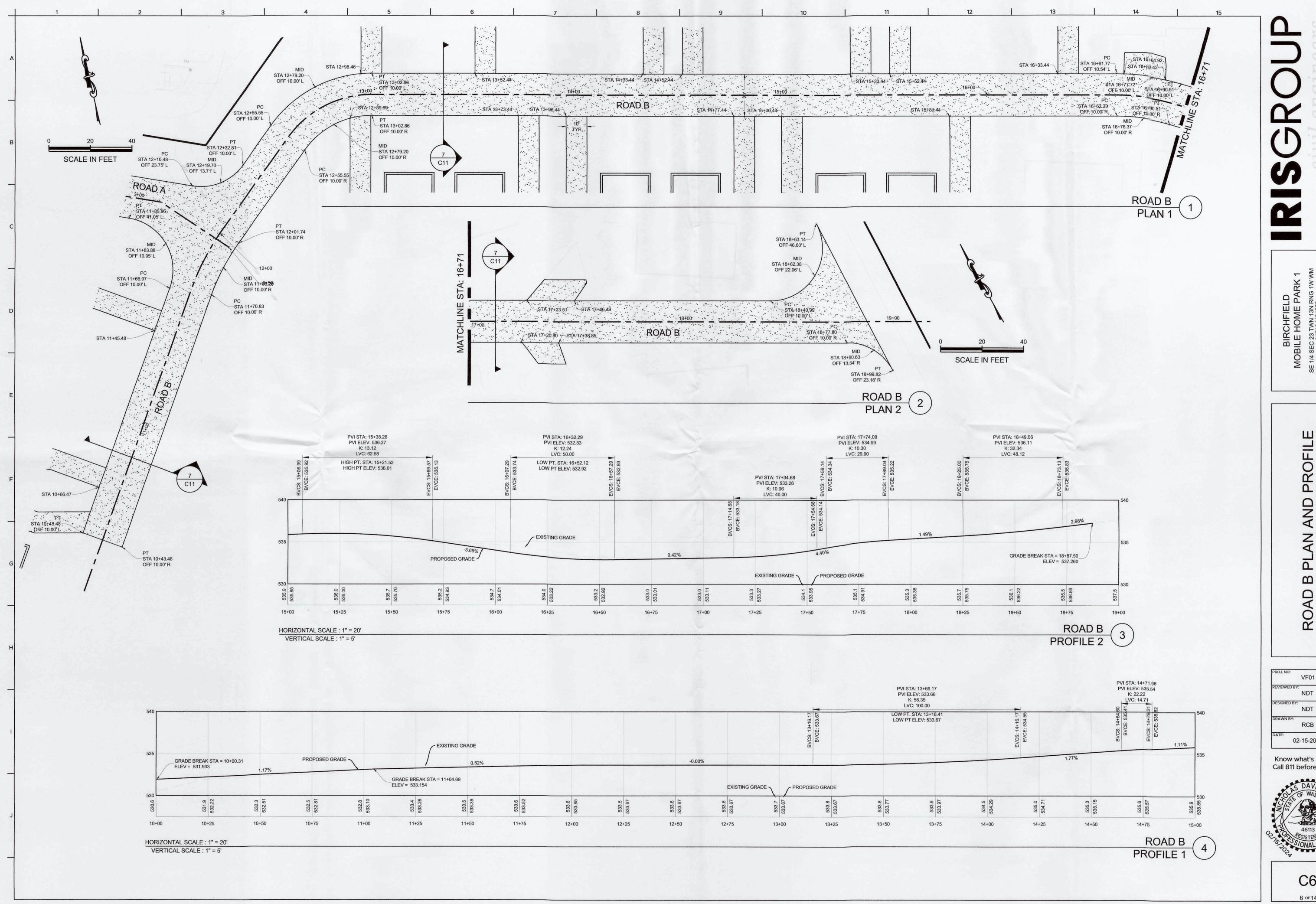
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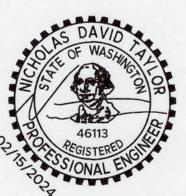


BIRCHFIELD
MOBILE HOME PARK 1
SE 1/4 SEC 23 TWN 13N RNG 1W W
017104124053
221 BIRCHFIELD PKWY
ONALASKA, WA 98570

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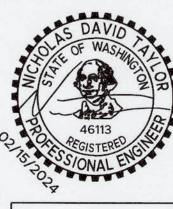


AND GRADING

NDT

02-15-2024

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PER DETAIL 8/C11.

SHALL BE PER DETAIL 8/C11.

8. DO NOT CONNECT ROOF DRAIN PIPE TO FOOTING DRAIN PIPE.

11. PROPOSED CATCH BASINS SHALL BE PER DETAIL 3/C13.

9. STORM DRAIN PIPES SHALL BE A MINIMUM OF 6" DIAMETER. ROOF DRAIN

10. PROPOSED CLEANOUTS SHALL BE INSTALLED EVERY 50' OF PIPE RUN AND

28. PROPOSED RETENTION POND W/ 6' EXTERIOR BERM. APPLY

29. PROPOSED 24 LF 18" CORRUGATED METAL CULVERT

DETAIL 1/C11 TO WETTED SURFACE.

RIM: 523.85

IE (SE)(6"): 519.98

IE (N)(6"): 519.98

18. CONNECT TO EXISTING CATCH BASIN

INSTALL 4' X 6' RIP RAP PAD AT OUTFALL.

17. PROPOSED 62.2 LF 6" SDR35 PVC STORM DRAIN AT 0.010 FT/FT

19. PROPOSED 92 LF 8" SDR35 PVC STORM DRAIN AT 0.066 FT/FT.

21. ENSURE THAT A MINIMUM OF 6" OF CLEARANCE IS PROVIDED

20. PROPOSED SEWER FORCE MAIN PER SHEET C9 (TYP)

6. PROPOSED 122 LF 8" SDR35 PVC STORM DRAIN AT 0.029 FT/FT

9. PROPOSED 50.6 LF 6" SDR35 PVC STORM DRAIN AT 0.021 FT/FT

PROPOSED ROOF DRAIN CLEANOUT

8. PROPOSED ROOF DRAIN CLEANOUT

RIM: 533.94

RIM: 533.66

IE (W)(6"): 530.60

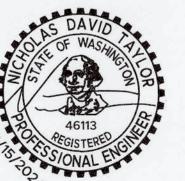
IE (E)(6"): 530.60

IE (N)(8"): 530.60

IE (E)(6"): 531.66

02-15-2024

Know what's BELOW



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PROPOSED 8" SDR 35 PVC AT MINIMUM 0.01 FT/FT

TO LEVEL SPREADER

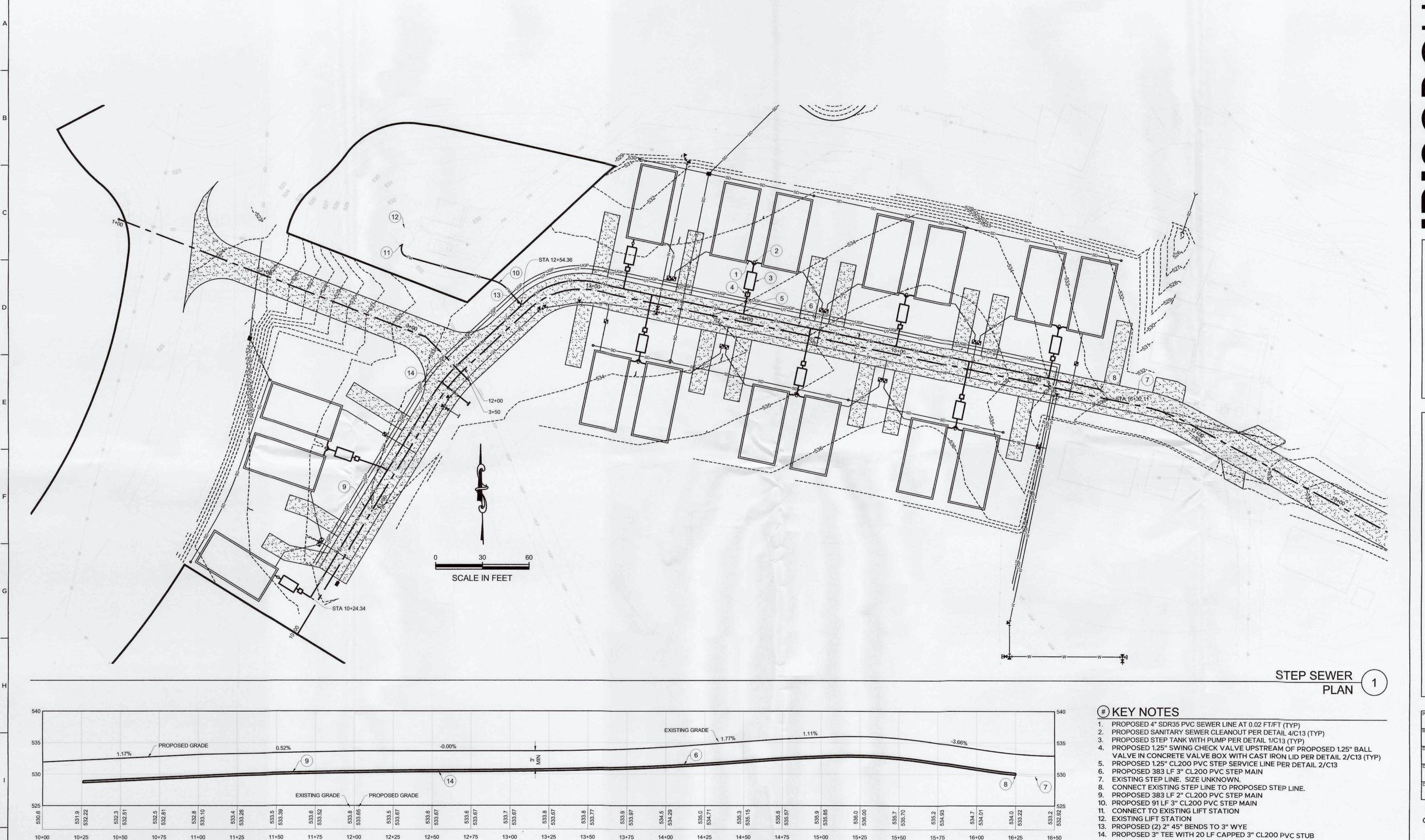
**SECTION** 

16.7LF 8" SDR35 PVC AT

NOT TO

0.01 FT/FT -

DRILL 1/4" HOLE IN 8" CAP AT 521.00 -



HORIZONTAL SCALE: 1" = 30' VERTICAL SCALE : 1" = 7.5'

STEP SEWER PROFILE

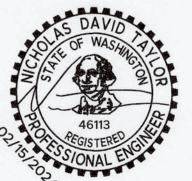
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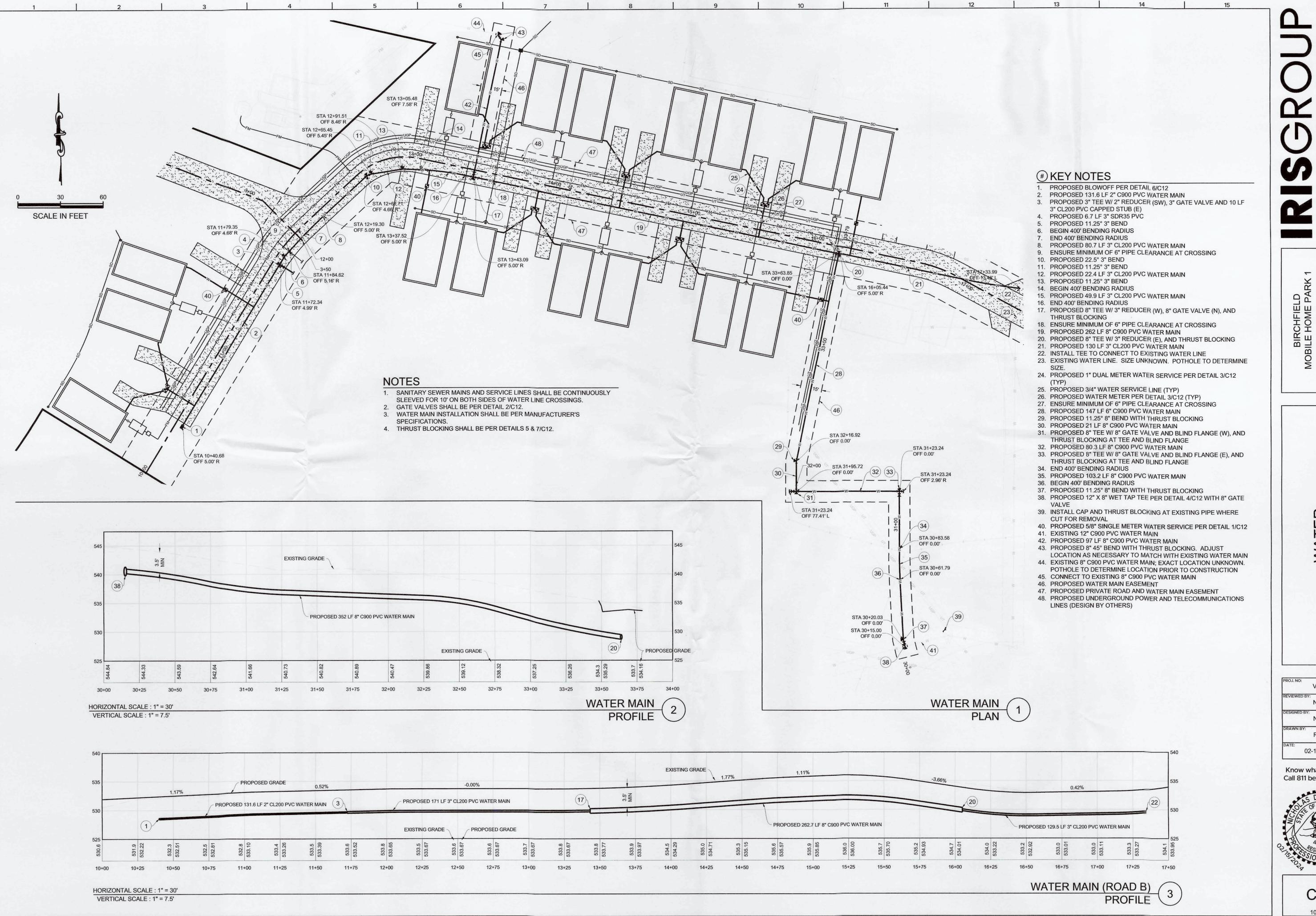
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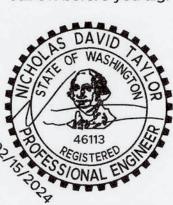




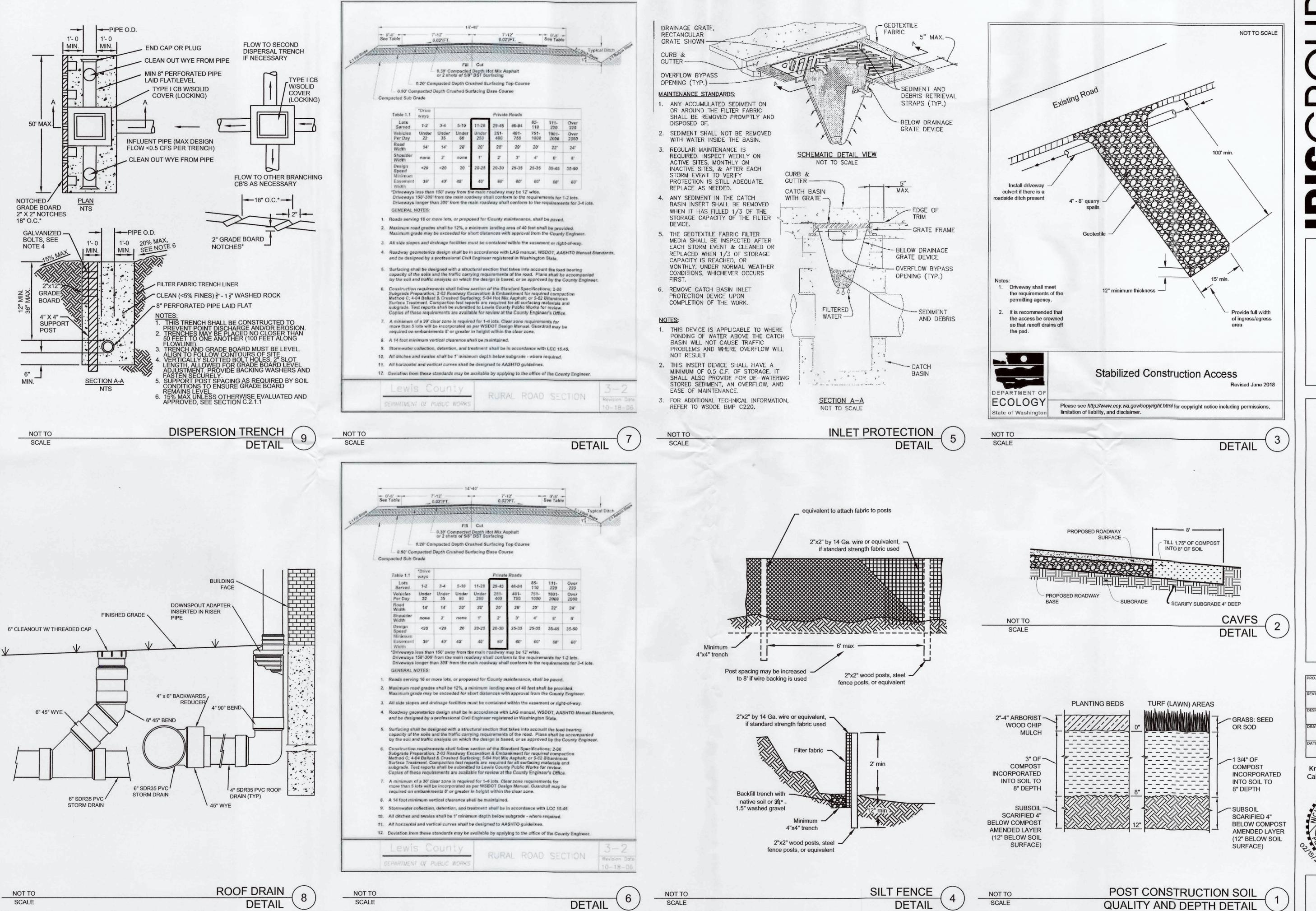
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C10 10 of 14



BIRCHFIELD
MOBILE HOME PARK 1
SE 1/4 SEC 23 TWN 13N RNG 1W WM
017104124053
221 BIRCHFIELD PKWY
ONALASKA, WA 98570

DETAILS 1

PROJ. NO:

VF01

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NDT

DESIGNED BY:

NDT

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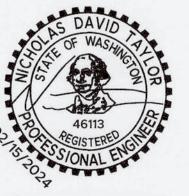
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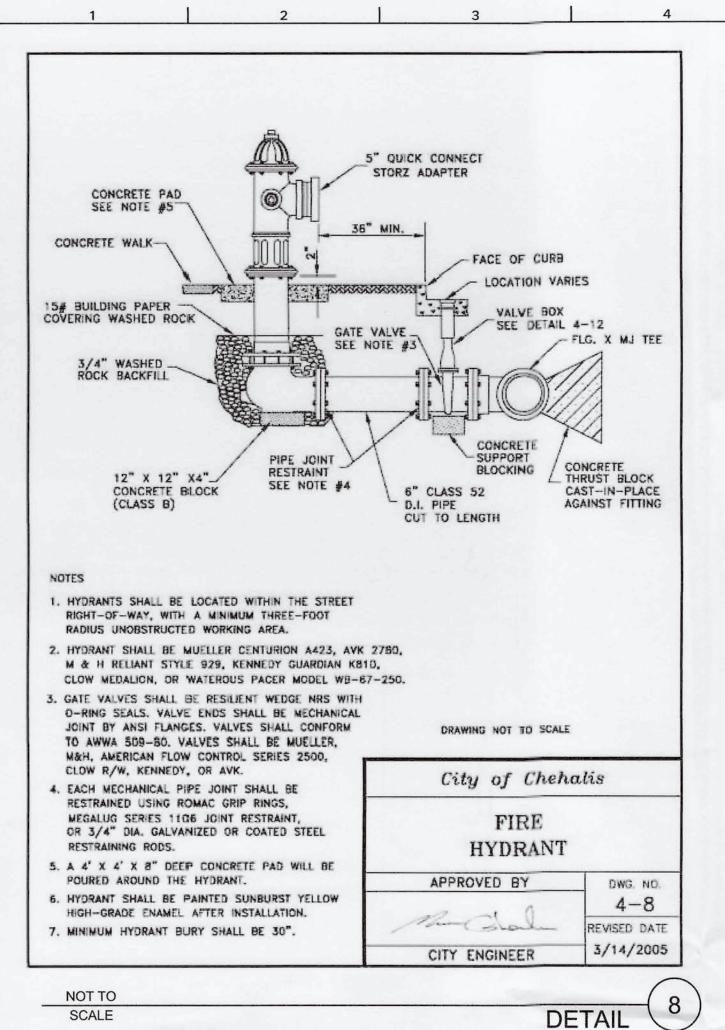
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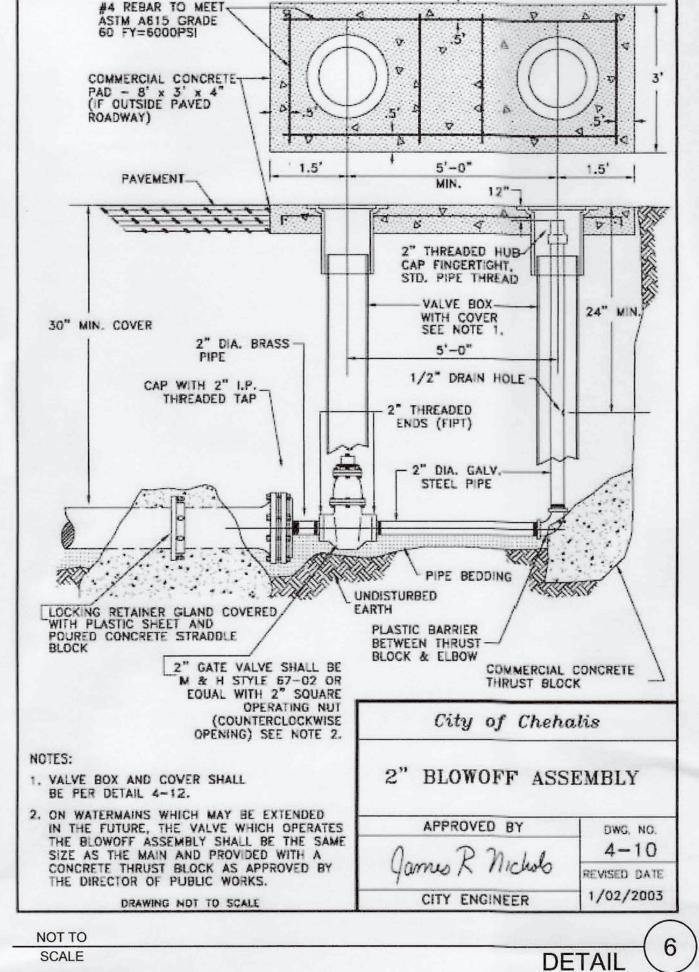
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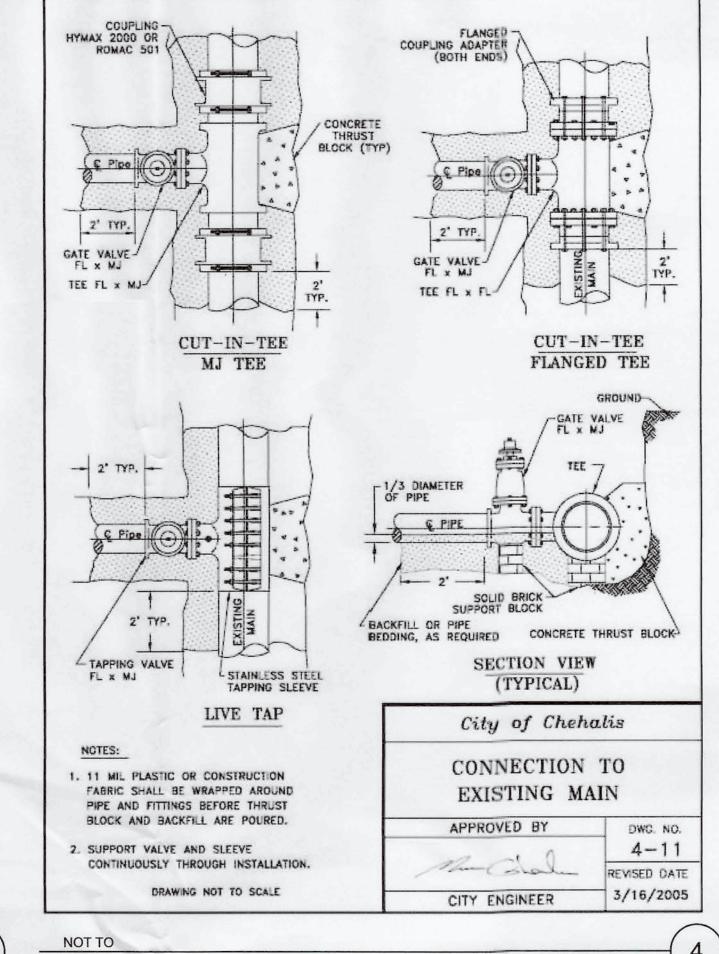
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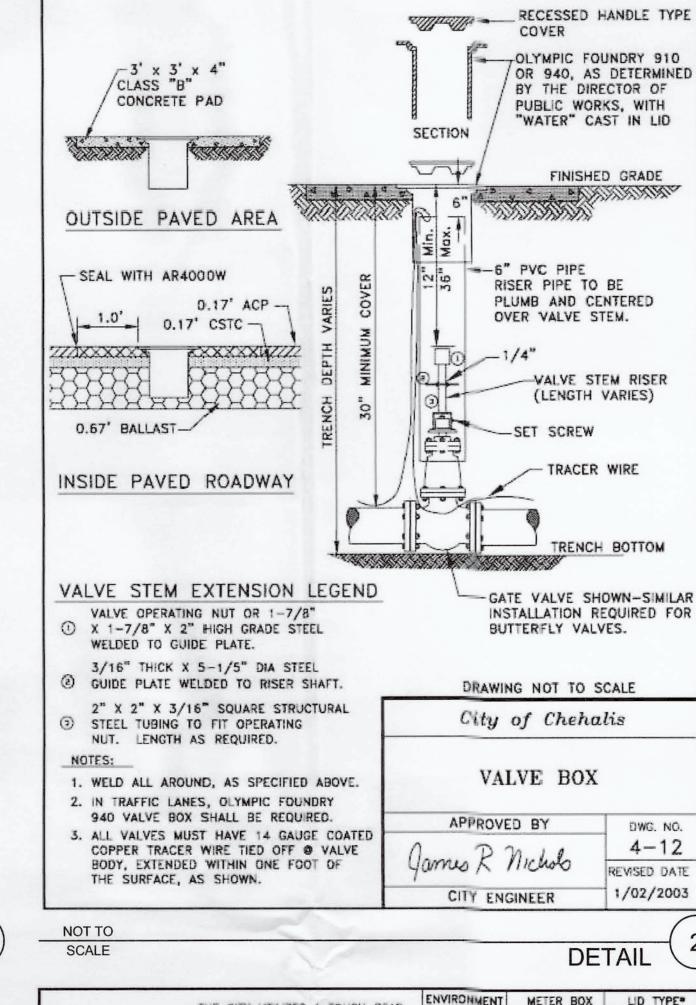


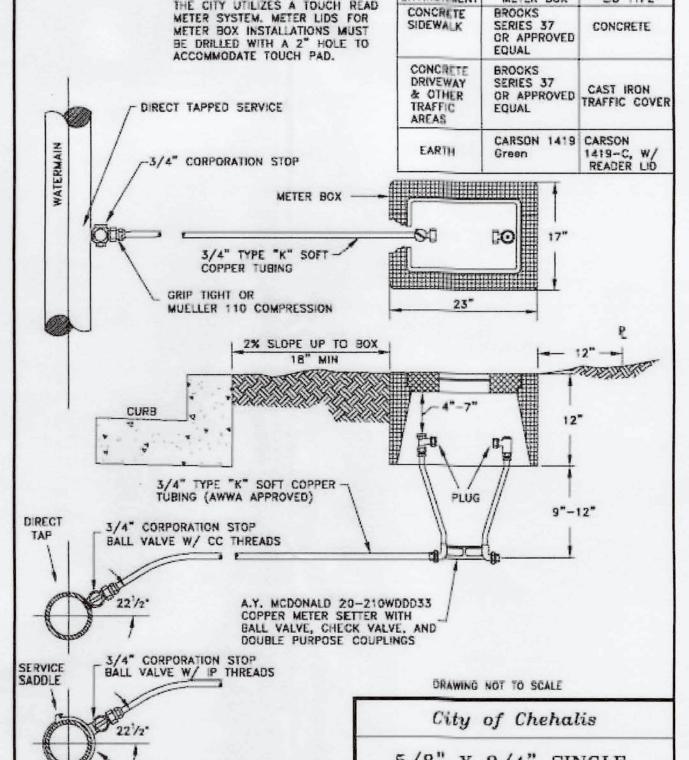


THRUST LOADS

HRUST AT FITTINGS IN POUNDS AT 200 POUNDS PER SQUARE INCH OF WATER PRESSURE



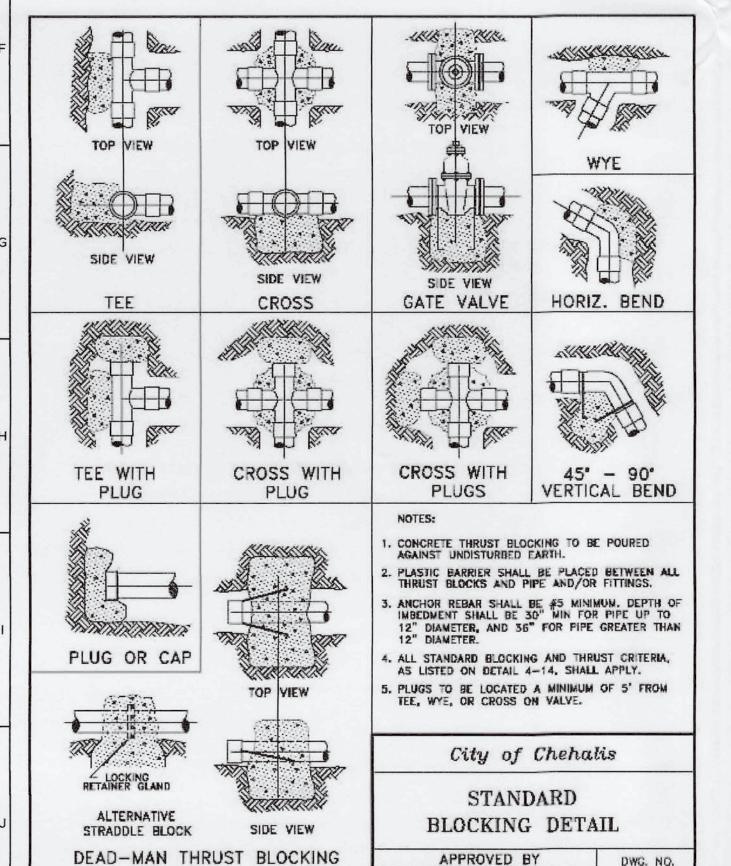




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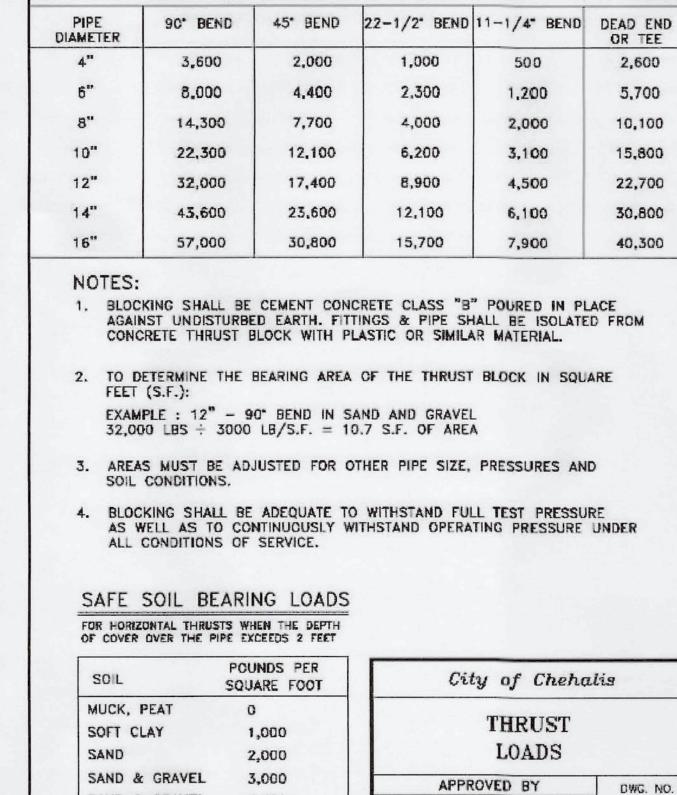
REVISED DATE

**DETAIL** 

1/02/2003

James R Nicholo

CITY ENGINEER



4,000

10,000

4-14

REVISED DATE

1/02/2003

DETAIL

NOT TO

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James K Nicholo

CITY ENGINEER

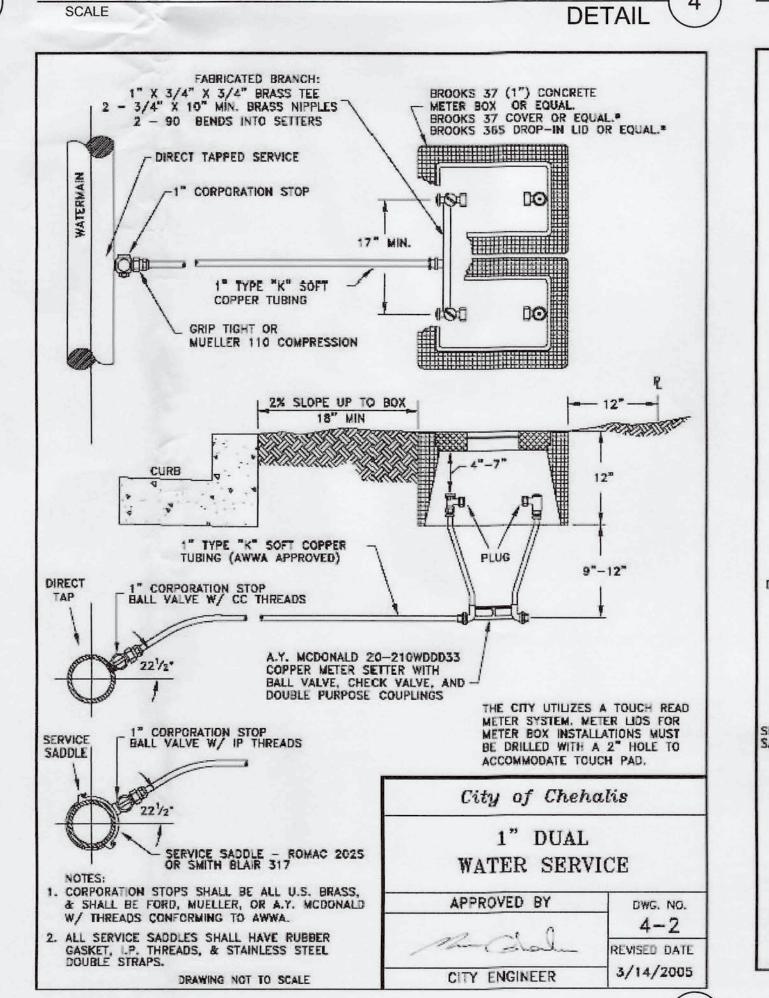
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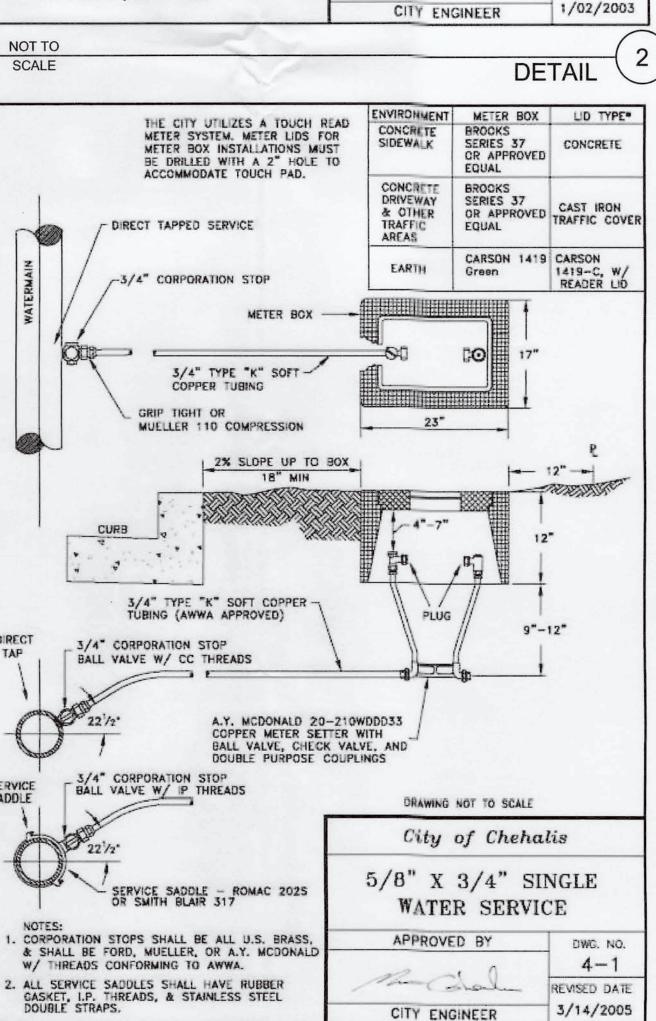
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BIRCHFIELD

SILE HOME PARK

SEC 23 TWN 13N RNG 1W W
017104124053
C21 BIRCHFIELD PKWY
ONALASKA, WA 98570

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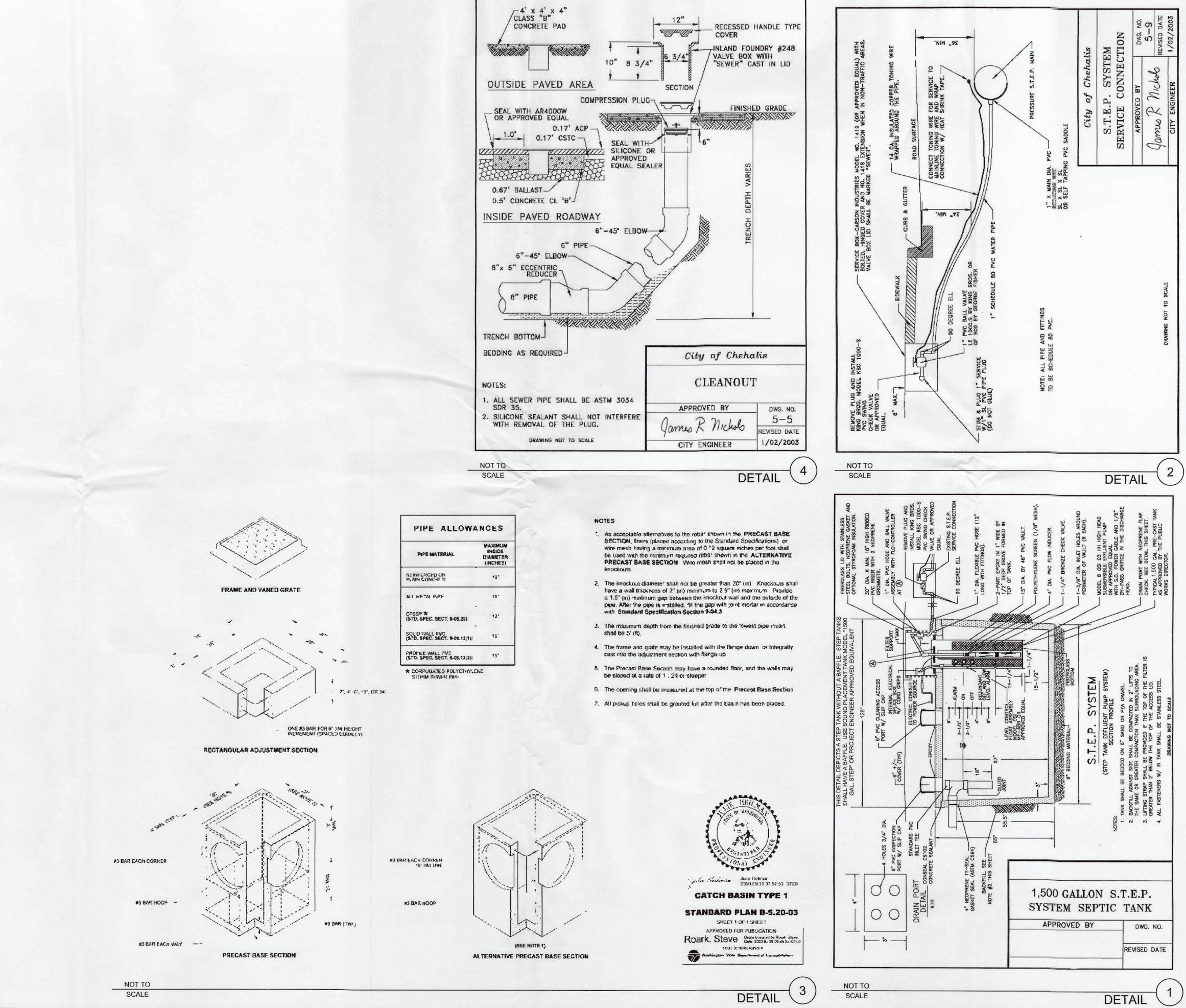
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120F14

**DETAIL** 



360-890-8955 | 299 N Market Blvd, Chehalis, WA 98532

BIRCHFIELD
MOBILE HOME PARK 1
SE 1/4 SEC 23 TWN 13N RNG 1W WM
017104124053
221 BIRCHFIELD PKWY
ONALASKA, WA 98570

ETAILS 3

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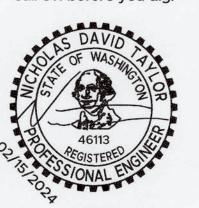
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C13

REQUIREMENTS: PVC PIPE CONFORMING TO ASTM D3034 SDR 35 OR ASTM F794 OR ASTM F679 TYPE 1 WITH JOINTS AND GASKETS CONFORMING TO ASTM D3212 AND ASTM F477, OR HIGH-DENSITY POLYETHYLENE SMOOTH INTERIOR PIPE CONFORMING TO AASHTO M 252 TYPES OR AASHTO M 294 TYPE S, WITH A GASKETED BELL AND SPIGOT JOINTS, OR

ALUMINIZED STEEL HELICAL OR SPIRAL RIB PIPE IN

VALUE OF 0.020 OR LESS. ALL STORM LINES AND CATCHBASINS WILL BE HIGH-VELOCITY CLEANED AND PRESSURE TESTED IN ACCORDANCE WITH DIVISON 7 OF THE STANDARD SPECIFICATIONS PRIOR TO PAVING. HYDRANT FLUSHING OF THE LINES IS NOT AN ACCEPTABLE CLEANING METHOD. TESTING OF THE STORM MAIN WILL INCLUDE TELEVISION INSPECTION AT THE

DIAMETERS OF 30 INCHES OR GREATER, WITH A MANNING'S

CONTRACTOR'S EXPENSE. 4. PRIOR TO BACKFILL, ALL MAINS AND APPURTENANCES WILL BE INSPECTED AND APPROVED BY A COUNTY INSPECTOR. APPROVAL DOES CONSTITUTE FINAL ACCEPTANCE OF THE STORM SEWER LINE. THE CONTRACTOR WILL RETAIN RESPONSIBILITY OF REPAIRING ALL DEFICIENCIES AND FAILURES REVEALED DURING REQUIRED TESTING FOR ACCEPTANCE AND THROUGHOUT THE DURATION OF THE WARRANTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE COUNTY IN ADVANCE OF ALL REQUIRED INSPECTIONS. ANY MAIN OR APPURTENANCE BACKFILLED PRIOR TO INSPECTION WILL BE REEXCAVATED FOR INSPECTION AT NO COST TO THE COUNTY.

5. NO STORMWATER SHALL BE CONVEYED TO THE PROPOSED STORMWATER POND UNTIL THE SITE IS FULL STABILIZED.

EROSION CONTROL NOTES

 IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLETE ALL WORK AND TO DISPOSE OF ALL DEMOLITION DEBRIS IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. PRIOR TO ANY WORK CONTRACTOR SHALL COMPLETE ALL TESTING FOR HAZARDOUS MATERIALS AND SHALL ABATE ALL HAZARDOUS MATERIALS IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

CONTRACTOR SHALL OBTAIN AND FULFILL THE REQUIREMENTS OF ANY PERMITS REQUIRED FOR ANY PROPOSED DEMOLITION ACTIVITY.

CONTRACTOR SHALL COORDINATE WITH AND RECEIVE APPROVAL FROM ANY PUBLIC OR PRIVATE UTILITIES AS REQUIRED FOR ABANDONMENT OF UTILITY SERVICES. CONTRACTOR SHALL APPLY FOR AND COORDINATE ANY WORK THAT MUST BE COMPLETED BY THE UTILITY PURVEYOR. CONTRACTOR SHALL ENSURE THAT ALL UTILITIES TO BE MODIFIED OR REMOVED ARE SHUT OFF PRIOR TO DEMOLITION OR CONSTRUCTION ACTIVITY.

4. PRIOR TO ANY DEMOLITION OR REMOVAL/MODIFICATION OF EXISTING UNDERGROUND UTILITY SERVICES, CONTRACTOR SHALL PERFORM BOTH A PRIVATE AND PUBLIC UTILITY LOCATE TO IDENTIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL

EXISTING UNDERGROUND UTILITIES. 5. CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND

PRESERVATION OF ANY EXISTING FEATURES TO REMAIN. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION AND DISPOSAL OF ALL EXISTING FEATURES THAT CONFLICT WITH PROPOSED

APPROVAL OF THIS SWPPP DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)

THE IMPLEMENTATION OF THIS SWPPP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS

9. DURING THE CONSTRUCTION PERIOD, NO UNAUTHORIZED DISTURBANCE BEYOND THE PROPERTY BOUNDARY SHALL BE

10. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER **STANDARDS** 

11. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS, DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.

12. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO **ENSURE THEIR CONTINUED FUNCTIONING** 

13. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT.

14. AT NO TIME SHALL MORE THAN 1 FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

15. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN

FOR THE DURATION OF THE PROJECT. 16. DURING THE WET SEASON, NOVEMBER THROUGH MARCH, ALL DISTURBED SOILS WILL BE STABILIZED WITHIN 48 HOURS AFTER LAND DISTURBANCE ACTIVITIES HAVE CEASED. EROSION CONTROL MEASURES WILL INCLUDE, BUT ARE NOT LIMITED TO, INSTALLATION OF STRAW MATTING, JUTE MATTING, STRAW MULCH AND/OR WOOD CHIPS, AND COVERING THE AFFECTED AREA AND SPOIL PILES WITH

17. THE CONTRACTOR WILL CHECK ALL SEEDED OR SODDED AREAS REGULARLY TO ENSURE THAT THE VEGETATIVE COVER IS BEING ADEQUATELY ESTABLISHED. AREAS WILL BE REPAIRED, RESEEDED, AND FERTILIZED AS REQUIRED.

18. TRACKING OF SOIL OFF SITE WILL NOT BE ALLOWED. IF ANY SOIL IS TRACKED BEYOND THE LIMITS OF THE SITE, IT WILL BE REMOVED BEFORE THE END OF THAT WORKING DAY. TO PREVENT ADDITIONAL TRACKING, VEHICLE TIRES MUST BE SWEPT OR WASHED PRIOR TO LEAVING THE PROJECT SITE.

19. ALL DISTURBED AREAS WILL BE SEEDED OR SODDED UPON COMPLETION OF WORK. THE CONTRACTOR WILL BE RESPONSIBLE TO ENSURE THAT COMPLETE COVERAGE OF THE DISTURBED AREAS IS PROVIDED AND THAT GROWTH OF VEGETATION IS ESTABLISHED. SEED AND SOD APPLICATIONS WILL BE CONDUCTED IN ACCORDANCE WITH THE TIMELINES NOTED IN THE MOST

RECENT EDITION OF THE WSDOT STANDARD SPECIFICATIONS. 20. ALL EROSION CONTROL WILL REMAIN IN PLACE UNTIL SUCH TIME AS THE SITE IS ADEQUATELY STABILIZED. PRIOR TO REMOVAL OF EROSION CONTROL MEASURES, THE ENGINEERING DIVISION WILL BE NOTIFIED FOR FINAL INSPECTION AND APPROVAL

WATER NOTES

1. ALL WORKMANSHIP AND MATERIAL WILL BE IN ACCORDANCE WITH CITY OF CHEHALIS STANDARDS AND THE MOST RECENT COPY OF THE WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS AND ANSI/NSF STANDARD 60 OR 61.

2. GATE VALVES WILL BE RESILIENT WEDGE, NRS (NONRISING STEM) WITH O-RING SEALS. VALVE ENDS WILL BE MECHANICAL JOINT OR ANSI FLANGES. VALVES WILL CONFORM TO AWWA 509-80. VALVES WILL BE MUELLER, M&H, KENNEDY, CLOW R/W OR AMERICAN FLOW CONTROL SERIES 2500. EXISTING VALVES AND ALL VALVES INSTALLED DIRECTLY TO AND CONNECTED TO A PORTION OF THE ACTIVE WATER SYSTEM ARE TO BE OPERATED BY CITY EMPLOYEES ONLY.

FIRE HYDRANTS WILL BE MUELLER CENTURION A-423, M&H RELIANT STYLE 129, CLOW MEDALLION, OR KENNEDY GUARDIAN K81D, WATEROUS PACER MODEL WB-67-250 OR AVK 2780. HYDRANTS WILL BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE INTERNATIONAL FIRE CODE. HYDRANTS WILL BE BAGGED AND THE CONNECTING GATE VALVES LEFT CLOSED UNTIL THE SYSTEM HAS BEEN APPROVED. HYDRANTS MUST BE PAINTED WITH SUNBURST YELLOW HIGH-GRADE ENAMEL AFTER INSTALLATION.

4. ALL LINES WILL BE CHLORINATED AND TESTED IN CONFORMANCE WITH THE ABOVE-REFERENCED

SPECIFICATIONS (SEE NOTE 1).

5. ALL PIPES AND SERVICES WILL BE INSTALLED WITH CONTINUOUS TRACER TAPE PLACED 12 TO 18 INCHES UNDER THE PROPOSED FINISHED SUBGRADE. THE MARKER WILL BE OF PLASTIC, NONBIODEGRADABLE, METAL CORE, OR BACKING MARKED "WATER" THAT CAN BE DETECTED BY A STANDARD METAL DETECTOR. TAPE WILL BE TERRA TAPE "D" OR APPROVED EQUAL. IN ADDITION TO TRACER TAPE, TONING WIRE WILL BE INSTALLED OVER ALL PIPE AND SERVICES. TONING WIRE WILL BE UL LISTED, TYPE UF, 14-GAUGE SOLID COATED COPPER WIRE, TAPED TO THE TOP OF THE PIPE TO PREVENT MOVEMENT DURING BACKFILLING AND LAID LOOSE ENOUGH TO PREVENT STRETCHING AND DAMAGE BEFORE BEING BROUGHT UP AND TIED OFF AT THE VALVE OPERATING NUT OR VALVE BOX. IF THE OPERATING NUT IS NOT EASILY ACCESSIBLE FROM THE GROUND SURFACE, THE COPPER WIRE WILL BE TIED OFF AT THE VALVE BOX IN SUCH A WAY THAT THE WIRE IS EASILY ACCESSIBLE FROM THE GROUND SURFACE. TWO FEET OF SLACK WILL BE PROVIDED TO ALLOW FOR CONNECTION TO THE LOCATOR.

6. A ONE-POUND MAGNESIUM ANODE WILL BE BURIED WITH THE PIPE EVERY 1,000 LINEAR FEET MAXIMUM FOR CATHODIC PROTECTION OF THE TONING WIRE. TONING WIRE SPLICES AND CONNECTIONS TO ANODES WILL JOIN WIRES BOTH MECHANICALLY AND ELECTRICALLY AND WILL EMPLOY EPOXY RESIN OR HEAT-SHRINK TAPE INSULATION. TONING WIRE WILL BE TESTED PRIOR TO ACCEPTANCE OF THE PIPE SYSTEM. A WRITTEN NOTICE FROM THE CONTRACTOR TO THE CITY MUST BE RECEIVED TWO BUSINESS DAYS PRIOR TO WHEN TESTING IS REQUIRED.

THE CONTRACTOR WILL PROVIDE TRAFFIC CONTROL PLAN(S)

AS REQUIRED IN ACCORDANCE WITH MUTCD. 8. ALL WATER MAINS WILL BE STAKED FOR GRADES AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK, STAKING WILL BE MAINTAINED THROUGHOUT CONSTRUCTION.

9. ALL WATER SYSTEM CONNECTIONS SERVING BUILDINGS OR PROPERTIES WITH DOMESTIC POTABLE WATER, FIRE SPRINKLER OR IRRIGATION SYSTEMS WILL COMPLY WITH THE MINIMUM BACKFLOW PREVENTION REQUIREMENTS ESTABLISHED BY THE DEPARTMENT OF HEALTH (DOH) AND THE CITY OF CHEHALIS CROSS-CONNECTION CONTROL PROGRAM.

10. CALL UTILITIES UNDERGROUND LOCATION CENTER AT 1-800-424-5555 A MINIMUM OF TWO BUSINESS DAYS PRIOR TO ANY EXCAVATIONS.

11. THE OWNER OF THE WATER SYSTEM SHALL BE NOTIFIED FIVE BUSINESS DAYS PRIOR TO SCHEDULING A WATER SYSTEM SHUTDOWN, THE CITY'S WATER DIVISION WILL PERFORM ALL WATER SYSTEM SHUTDOWNS. WHEN CONNECTIONS REQUIRE "FIELD VERIFICATION," CONNECTION POINTS WILL BE EXPOSED BY THE CONTRACTOR AND FITTINGS VERIFIED BY THE CITY TWO BUSINESS DAYS PRIOR TO THE DISTRIBUTION OF SHUTDOWN NOTICES. CUSTOMERS INVOLVED WITH OR AFFECTED BY WATER SERVICE INTERRUPTIONS WILL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE. SHUTDOWNS WILL NOT BE PERMITTED ON FRIDAYS, WEEKENDS, OR HOLIDAYS WITHOUT WRITTEN AUTHORIZATION FROM THE DIRECTOR OF

PUBLIC WORKS. 12. WHEN CONNECTING TO AN EXISTING WATER LINE WHERE A NEW VALVE IS NOT TO BE INSTALLED, THE EXISTING VALVE MUST BE PRESSURE TESTED TO THESE STANDARDS BY THE CONTRACTOR PRIOR TO CONNECTION. IF AN EXISTING VALVE FAILS TO PASS THE TEST, THE CONTRACTOR WILL MAKE THE NECESSARY ADDITIONAL PROVISIONS TO TEST THE NEW LINE PRIOR TO CONNECTING TO THE EXISTING SYSTEM OR WILL INSTALL A NEW VALVE. NEW LINES WILL NOT BE CONNECTED TO THE EXISTING SYSTEM UNTIL ALL REQUIRED TESTS HAVE BEEN PASSED.

COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL

2. ALL APPROVALS AND PERMITS REQUIRED BY LEWIS COUNTY WILL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

3. IF CONSTRUCTION IS TO TAKE PLACE IN THE COUNTY RIGHT-OF-WAY, THE CONTRACTOR WILL NOTIFY THE COUNTY AND OBTAIN ALL THE REQUIRED APPROVALS AND PERMITS.

DAYS IN ADVANCE OF A TAP CONNECTION TO AN EXISTING MAIN. A COUNTY INSPECTOR WILL BE PRESENT AT THE TIME

LOCATION CENTER AT 1-800-424-5555 A MINIMUM OF TWO BUSINESS DAYS PRIOR TO ANY EXCAVATION.

6. ALL SEWER MAINS WILL BE FIELD STAKED FOR GRADES AND ALIGNMENT BY A LICENSED ENGINEERING OR SURVEYING FIRM QUALIFIED TO PERFORM SUCH WORK, STAKING WILL BE MAINTAINED THROUGHOUT CONSTRUCTION.

7. ALL PIPE AND SERVICES WILL BE INSTALLED WITH METAL DETECTOR. IF VISIBILITY CANNOT BE MAINTAINED A SEWER, TONING WIRE WILL BE INSTALLED ABOVE THE WILL BE TERRA TAPE "D" OR AN APPROVED EQUAL. IN ADDITION, STEP MAINS, FORCE MAINS, AND CURVILINEAR SEWERS WILL BE INSTALLED WITH TONING WIRE TAPED TO THE TOP OF THE PIPE TO PREVENT MOVEMENT DURING BACKFILL.

8. IF TONING WIRE IS REQUIRED, IT WILL BE UL LISTED, TYPE UF, 14-GAUGE COPPER. THE WIRE WILL BE LAID LOOSELY ENOUGH TO PREVENT STRETCHING AND DAMAGE. THE WIRE WILL BE WRAPPED TO A MANHOLE OR CLEANOUT RINGS ON GRAVITY

SEWER OR VALVE BODY ON STEP MAINS.

PIPE EVERY 1,000 LINEAR FEET MAXIMUM FOR CATHODIC PROTECTION OF THE WIRE. TONING WIRE SPLICES AND CONNECTIONS TO ANODES WILL JOIN WIRES BOTH MECHANICALLY AND ELECTRICALLY AND WILL EMPLOY EPOXY RESIN OR HEAT-SHRINK TAPE INSULATION. TONING WIRE WILL BE TESTED PRIOR TO ACCEPTANCE OF THE PIPE SYSTEM, A WRITTEN NOTICE FROM THE CONTRACTOR TO THE CITY TWO BUSINESS DAYS PRIOR TO TESTING IS REQUIRED. ON A CURVILINEAR SEWER, THE WIRE WILL BE BROUGHT UP, BARED AND WRAPPED THREE TIMES AROUND THE MANHOLE RING. THE TAPE AND WIRE WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

BACKFILL MATERIAL WILL BE REQUIRED IN ACCORDANCE WITH THE ABOVE SPECIFICATION (SEE GENERAL NOTE 1).

11. EROSION CONTROL MEASURES CONFORMING TO THE MOST RECENT VERSION OF THE CITY OF CHEHALIS STORM WATER MANAGEMENT PLAN AND ARTICLE IV OF THIS CHAPTER WILL BE TAKEN BY THE CONTRACTOR DURING CONSTRUCTION TO PREVENT INFILTRATION OF EXISTING AND PROPOSED STORM DRAINAGE FACILITIES AND ROADWAYS.

12. PROVIDE TRAFFIC CONTROL PLAN(S) IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

13. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SITE AT ALL TIMES. APPROVED PLANS ARE TYPICALLY WORKS OR DESIGNATED CONSULTANT

14. ANY CHANGES TO THE DESIGN WILL FIRST BE REVIEWED AND APPROVED BY THE DEVELOPER'S PROJECT ENGINEER AND THE DIRECTOR OF PUBLIC WORKS OR DESIGNATED CONSULTANT PRIOR TO IMPLEMENTATION.

15. PRIOR TO BACKFILL, ALL MAINS AND APPURTENANCES WILL BE INSPECTED AND APPROVED BY A COUNTY INSPECTOR. APPROVAL DOES CONSTITUTE FINAL ACCEPTANCE OF THE SEWER LINE. THE CONTRACTOR WILL RETAIN RESPONSIBILITY TO REPAIR ALL DEFICIENCIES AND FAILURES REVEALED DURING ALL REQUIRED TESTING FOR ACCEPTANCE AND THROUGHOUT THE DURATION OF THE WARRANTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEERING DIVISION IN ADVANCE OF ALL REQUIRED INSPECTIONS. ANY MAIN OR APPURTENANCE BACKFILLED PRIOR TO INSPECTION WILL BE RE-EXCAVATED FOR INSPECTION AT NO COST TO THE CITY.

16. ALL BURIED POWER FOR STEP SYSTEMS WILL BE INSTALLED ACCORDING TO ALL CURRENT AND APPLICABLE ELECTRICAL CODES.

17. ALL BURIED POWER FOR STEP SYSTEMS WILL BE INSTALLED WITH CONTINUOUS TRACER TAPE INSTALLED 12 INCHES ABOVE THE BURIED POWER. THE MARKER WILL BE PLASTIC. NONBIODEGRADABLE METAL CORE BACKING MARKED "POWER." TAPE TO BE FURNISHED BY THE CONTRACTOR.

18. ALL STEP MAINS WILL BE HYDROSTATICALLY TESTED AT 100 PSIG FOR 15 MINUTES ACCORDING TO THE METHODS FOR HYDROSTATIC TESTING OF WATER LINES IN THE MOST RECENT VERSION OF THE WSDOT/APWA SPECIFICATIONS. ALL MATERIALS AND LABOR ARE TO BE PROVIDED BY THE CONTRACTOR. IN ADDITION, ALL STEP MAINS WILL BE PIGGED IN THE PRESENCE OF A COUNTY INSPECTOR, PRIOR TO PLACING THE STEP MAIN IN SERVICE.

SANITARY SEWER NOTES

 ALL WORKMANSHIP AND MATERIALS WILL BE IN ACCORDANCE WITH CITY OF CHEHALIS STANDARDS AND THE MOST RECENT CONSTRUCTION (WSDOT/APWA).

4. THE CONUTY WILL BE NOTIFIED A MINIMUM OF TWO BUSINESS

5. THE CONTRACTOR WILL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR WILL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UTILITIES UNDERGROUND

CONTINUOUS TRACER TAPE PLACED 12 TO 18 INCHES UNDER THE PROPOSED FINISHED SUBGRADE. THE MARKER WILL BE OF PLASTIC, NONBIODEGRADABLE, METAL CORE OR BACKING MARKED "SEWER" THAT CAN BE DETECTED BY A STANDARD BETWEEN STRUCTURES ALONG THE STRAIGHT ALIGNMENT OF SEWER LINE AT A DEPTH NO GREATER THAN 48 INCHES. TAPE

9. A ONE-POUND MAGNESIUM ANODE WILL BE BURIED WITH THE

10. BEDDING OF THE SEWER MAIN AND COMPACTION OF THE

(MUTCD) AS REQUIRED.

HAVE A COPY OF THE APPROVED CONSTRUCTION PLANS ON SIGNIFIED BY THE SIGNATURE OF THE DIRECTOR OF PUBLIC

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REVIEWED BY: NDT NDT RCB 02-15-2024

Know what's BELOW Call 811 before you dig.

