

MOUNTAIN VIEWS SUBDIVISION

CONSTRUCTION DOCUMENTS WEST WEBER, WEBER , UTAH

TRAFFIC CONTROL & SAFETY NOTES

1. BARRICADING AND DETOURING SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CURRENT STATE OF UTAH DEPARTMENT OF TRANSPORTATION MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES, AND WEBER COUNTY STANDARD DRAWING, AND SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY WORK.
2. NO STREET SHALL BE CLOSED TO TRAFFIC WITHOUT WRITTEN PERMISSION FROM WEBER COUNTY TRAFFIC ENGINEER, EXCEPT WHEN DIRECTED BY LAW ENFORCEMENT OR FIRE OFFICIALS.
3. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROVIDE FOR SMOOTH TRAFFIC FLOW AND SAFETY. ACCESS SHALL BE MAINTAINED FOR ALL PROPERTIES ADJACENT TO THE WORK.
4. DETOURING OPERATIONS FOR A PERIOD OF SIX CONSECUTIVE CALENDAR DAYS, OR MORE, REQUIRE THE INSTALLATION OF TEMPORARY STREET STRIPING AND REMOVAL OF INTERFERING STRIPING BY SANDBLASTING. THE DETOURING STRIPING PLAN OR CONSTRUCTION TRAFFIC CONTROL PLAN MUST BE SUBMITTED TO THE WEBER COUNTY TRAFFIC ENGINEER FOR REVIEW AND APPROVAL.
5. ALL TRAFFIC CONTROL DEVICES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE END OF THE WORK TO THE SATISFACTION OF WEBER COUNTY TRAFFIC ENGINEER
6. TRAFFIC CONTROL DEVICES (TCDs) SHALL REMAIN VISIBLE AND OPERATIONAL AT ALL TIMES.

UTILITY DISCLAIMER

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.

NOTICE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS: OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF UTAH DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS". THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONTRACTORS AND SUBCONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

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

STORM SEWER GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
A)OBTAIN ALL REQUIRED PERMITS FROM WEBER COUNTY OR REGULATORY AGENCIES, INCLUDING PERMITS TO WORK IN THE RIGHT-OF-WAY.
B)RESTORATION OF EXISTING IMPROVEMENTS INCLUDING BUT NOT LIMITED TO FENCES, SOD, LANDSCAPING, PAVEMENT, SPRINKLER SYSTEM.
C)VERIFICATION AND PROTECTION OF ALL EXISTING IMPROVEMENTS WITHIN THE LIMITS OF CONSTRUCTION.
D)PROVIDING AS-BUILT DRAWINGS TO THE CITY AND THE ENGINEER.
E)ALL PERMITTING, DEVELOPMENT, LOCATION, CONNECTION AND INSPECTION AND SCHEDULING FOR SUCH.
2. ALL STORM SEWER CONNECTIONS SHALL BE IN CONFORMANCE WITH CITY STANDARDS AND SPECIFICATIONS.
3. RIM ELEVATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATION. PIPELINE CONTRACTOR SHALL USE PRECAST CONCRETE ADJUSTMENT RINGS, GROUT, AND STEEL SHIMS TO ADJUST THE MANHOLE FRAME TO THE REQUIRED FINAL GRADE IN CONFORMANCE WITH WEBER COUNTY STANDARDS AND SPECIFICATIONS AND PLANS. ALL FRAMES SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO PLACEMENT OF ASPHALT PAVING.
4. COMPACTION OF ALL TRENCHES WITHIN THE PROJECT SITE MUST BE ATTAINED AND COMPACTION RESULTS SUBMITTED TO THE ENGINEER AND THE CITY PRIOR TO FINAL ACCEPTANCE.
5. ALL STORM DRAIN PIPES IN THE CITY RIGHT-OF-WAY SHALL BE RCP CL III.
6. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH THE PAVEMENT AND SHALL HAVE TRAFFIC BEARING LIDS. ALL STORM SEWER LIDS SHALL BE LABELED "STORM DRAIN".
7. WHERE CONNECTION TO EXISTING UTILITY IS PROPOSED, CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION AND NOTIFY OWNER/ENGINEER IF LOCATION AND ELEVATION OF EXISTING UTILITY VARIES FROM THE DESIGN.

GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH BY THE WEBER COUNTY ENGINEER, PLANNING, CODES AND SPECIFICATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND OR ELEVATION 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 UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE DESIGNATED PUBLIC WORKS INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH WEBER COUNTY AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE.
5. THE CONTRACTOR SHALL HAVE ONE (1) COPY OF APPROVED PLANS, AND ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB, ON SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
7. IF DURING THE CONSTRUCTION PROCESS CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED AND RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT DRAWINGS ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE, AND AVAILABLE TO WEBER COUNTY INSPECTOR AT ALL TIMES.
11. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES.
12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTORS SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.

SWPPP GENERAL NOTES

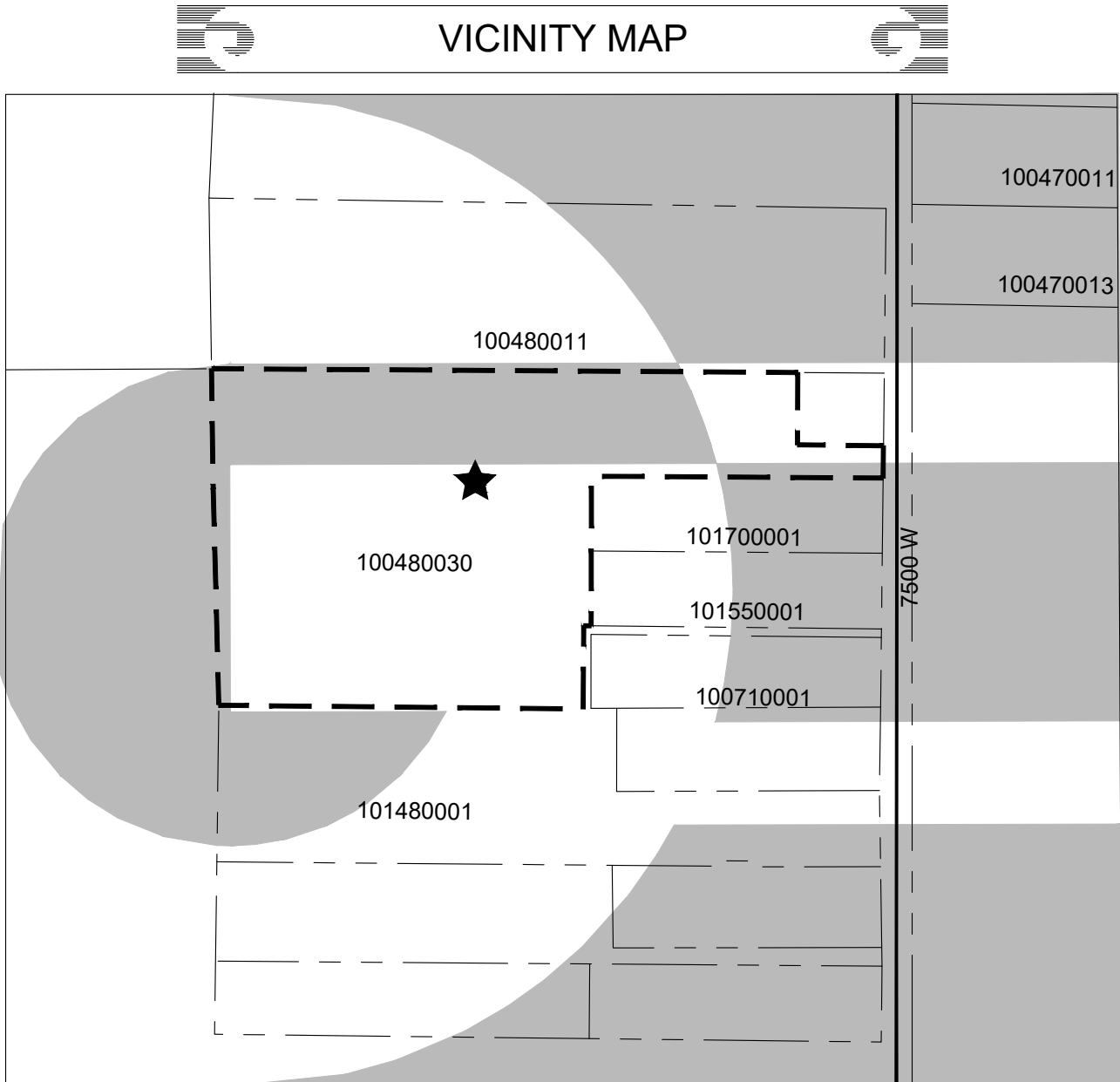
1. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AS REQUIRED BY WEBER COUNTY AND UTAH STATE.
2. ALL STRUCTURAL EROSION MEASURES SHALL BE INSTALLED AS SHOWN ON THE SWPPP PLAN, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.

GENERAL GRADING NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST APWA STANDARDS AND SPECIFICATION FOR PUBLIC WORKS AND WEBER COUNTY STANDARDS. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING FOUNDATIONS AND ENTRIES. FINISHED GRADE AT FOUNDATION FOR WOOD FRAMED STRUCTURES SHALL BE 8 INCHES BELOW TOP OF FOUNDATION AND DRAINAGE SHALL BE A MINIMUM OF 5% WITHIN 10 FEET FROM THE BUILDING.
2. MAXIMUM SLOPES SHALL BE 3:1 FOR CUT AND FILL UNLESS OTHERWISE NOTED.
3. COMPACTION REQUIREMENTS AND TESTING SHALL BE PERFORMED TO MEET THE CITY STANDARDS.
4. NO FILL SHALL BE PLACED UNTIL VEGETATION HAS BEEN REMOVED AND SUB-GRADE PREPARED PER THE SOILS REPORT.
5. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.
6. CONTRACTOR SHALL COMPLY WITH STORM WATER POLLUTION PREVENTION PLAN BY INSTALLING BMP'S PRIOR TO COMMENCEMENT OF EXCAVATION ACTIVITIES. CONTACT THE CITY INSPECTOR FOR INSPECTION.
7. ALL RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND ALL SUBSEQUENT REPORTS, ADDENDUM ETC. SHALL BE CONSIDERED A PART OF THIS GRADING PLAN AND SHALL BE COMPLIED WITH.
8. THE CONTRACTOR SHALL CONTACT BLUE STAKES FOR LOCATION MARKING PRIOR TO COMMENCING EXCAVATION ACTIVITIES.
9. CITY MAY REQUIRE A PRE-CONSTRUCTION MEETING BEFORE A PERMIT IS ISSUED.
10. STREETS ADJACENT TO THE PROJECT SHALL BE CLEAN AT ALL TIMES.
11. CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR ALL REQUIRED INSPECTIONS.
12. PRIOR TO TAKING WATER FROM A CITY FIRE HYDRANT, THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE WATER UTILITY TO OBTAIN A WATER METER.

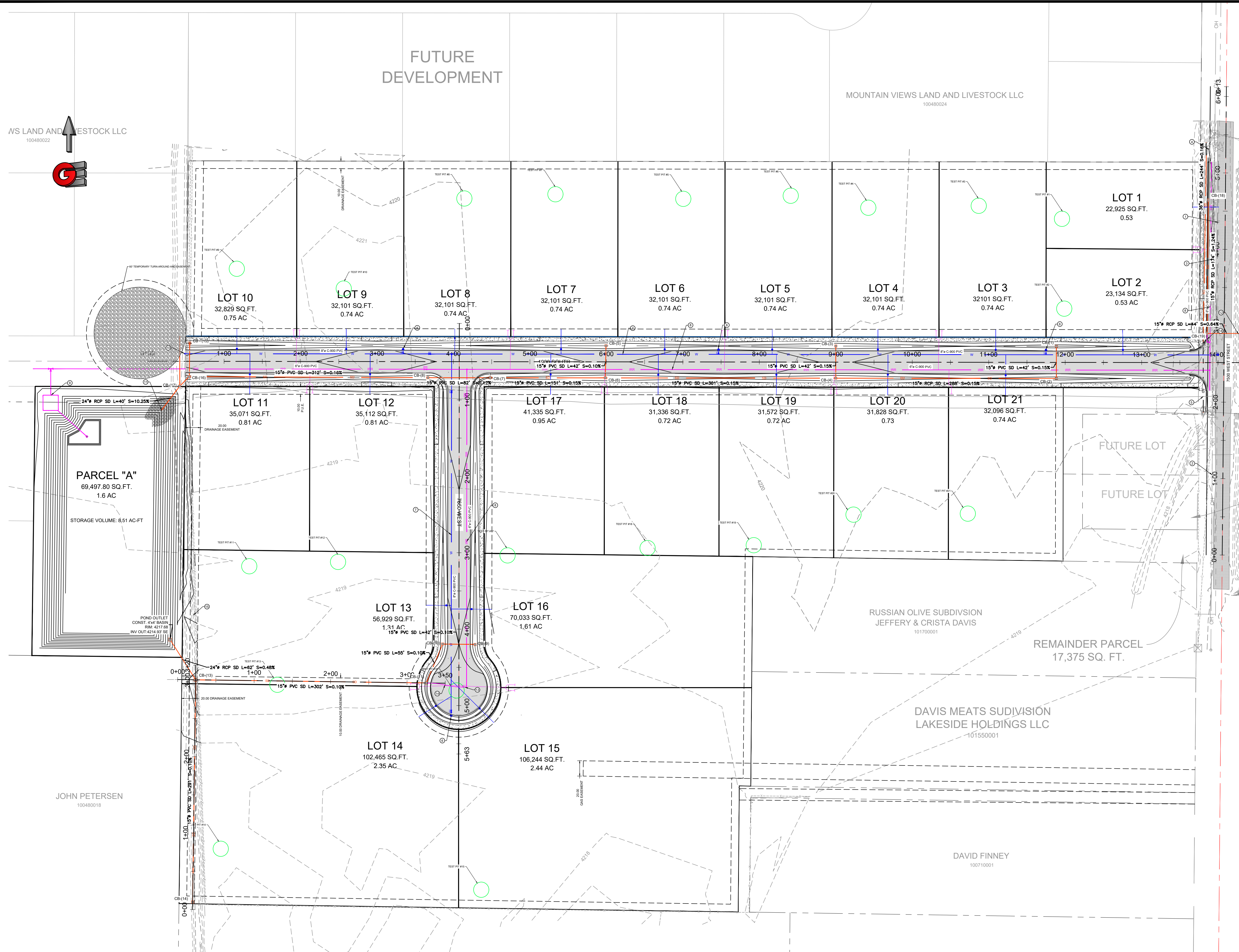
CULINARY WATER GENERAL NOTES

1. ALL INSTALLATION AND MATERIALS SHALL CONFORM TO WEST WARREN WATER UTILITY STANDARDS, SPECIFICATIONS AND PLANS.
2. THRUST BLOCKING IS REQUIRED AT ALL BENDS AND FITTINGS. TIE RODS SHALL BE USED AT ALL BENDS AND FITTINGS WHERE THRUST BLOCKS DO NOT BEAR AGAINST UNDISTURBED SOIL.
3. ALL WATERLINES AT SEWER CROSSINGS SHALL BE LOCATED ABOVE AND HAVE AN 18-INCH VERTICAL SEPARATION FROM THE SEWER PIPE. IF THIS IS NOT PROVIDED, THE WATERLINE SHALL BE INSTALLED WITH 20 L.F. OF CONCRETE CASING CENTERED OVER THE SEWER PIPE.
4. DISINFECTION TESTS SHALL BE PERFORMED BY THE WATER UTILITY WITH COOPERATION FROM THE CONTRACTOR IN PERFORMING ANY NECESSARY EXCAVATION AND SUBSEQUENT BACKFILLING AT NO COST TO THE CITY.
5. CHLORINATION OF COMPLETED WATER LINE. THE NEW WATER LINES SHALL BE DISINFECTED BY CHLORINATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL RELATED COSTS AND FEES RELATED TO THE CHLORINATION OF THE COMPLETED WATER LINE. THIS TEST SHALL BE PERFORMED PRIOR TO CONNECTION OF THE NEW WATER LINES TO THE EXISTING WATER SYSTEM. THE CONTRACTOR SHALL NOTIFY THE WATER UTILITY AT LEAST 24 HOURS BEFORE THE CHLORINATION IS DESIRED.
6. A MINIMUM HORIZONTAL CLEARANCE OF 10 FEET SHALL BE MAINTAINED FROM SANITARY SEWER MAINS.
7. UNLESS OTHERWISE SPECIFIED, ALL WATERLINES SHALL BE AWWA C900 PVC CLASS 150, PER ASTM D2241.
8. CONTRACTOR SHALL LOCATE VALVES PRIOR TO CONNECTION WITH EXISTING SYSTEM, BUT SHALL NOT OPERATE ANY VALVE WITHOUT PERMISSION FROM THE WATER UTILITY.
9. ALL WATER MAINS, VALVES, FIRE HYDRANTS, SERVICES AND APPURTENANCES SHALL BE INSTALLED, TESTED, AND APPROVED PRIOR TO PAVING.
10. THERE SHALL BE A WATER SUPPLY TO THE DEVELOPMENT BEFORE ANY WOOD CONSTRUCTION STARTS.
11. THE WATER UTILITY REQUIRES THE USE OF CORROSION RESISTANT MATERIALS FOR ALL CULINARY WATER IMPROVEMENTS. SPECIFICALLY, ROMAC BLUE BOLTS OR STAINLESS STEEL BOLTS MUST BE USED ON ALL FITTINGS. FURTHER, ALL METAL FITTINGS SHALL BE POLY WRAPPED.



ALL IMPROVEMENTS TO CONFORM TO WEBER COUNTY STANDARDS AND SPECIFICATIONS

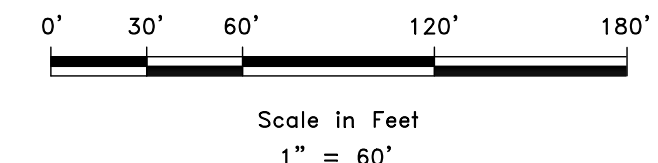
CULINARY WATER IMPROVEMENTS TO CONFORM TO WEST WARREN WATER STANDARDS AND SPECIFICATIONS



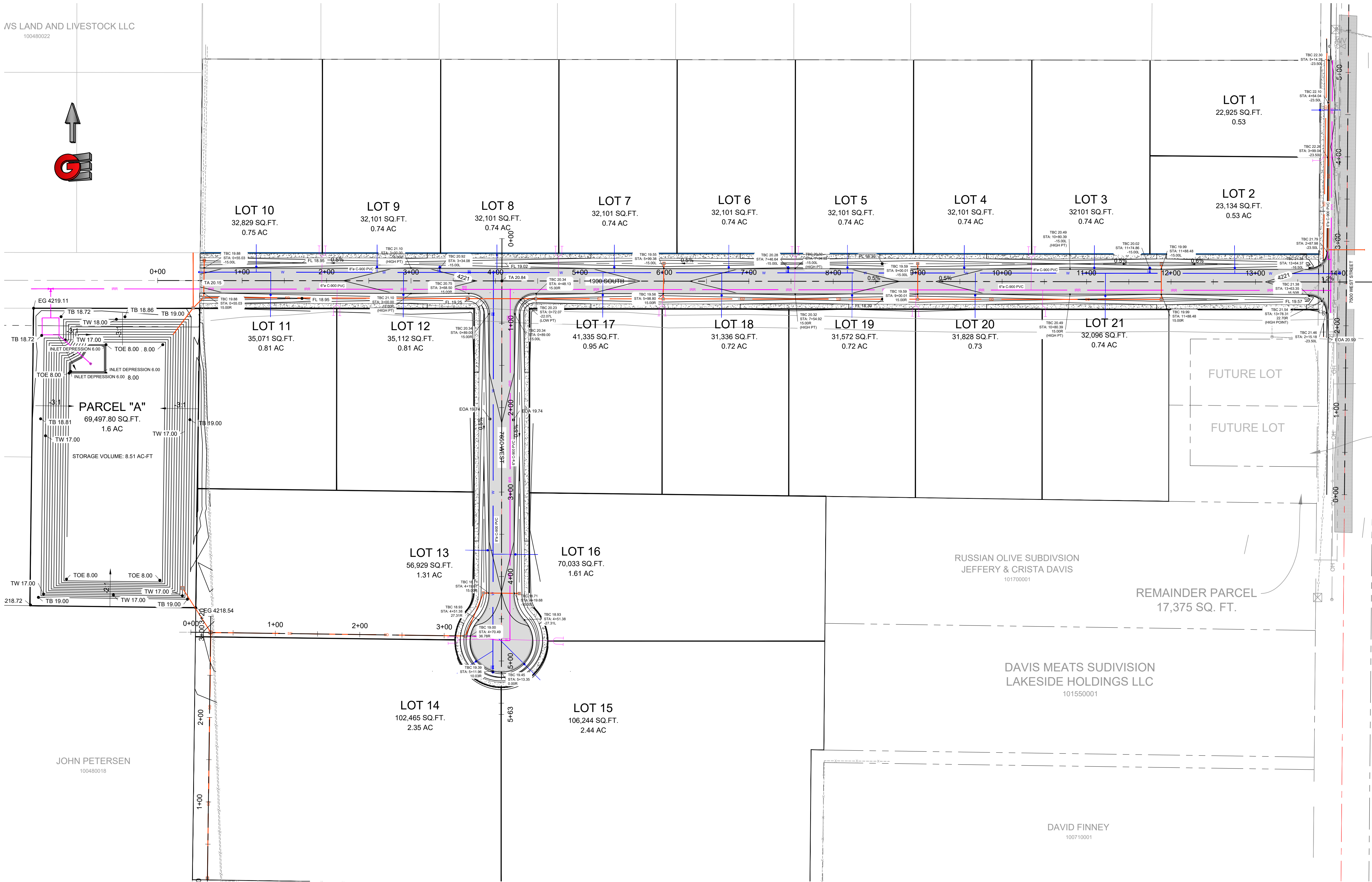
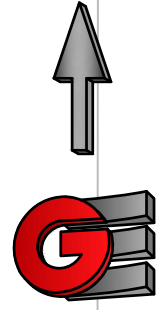
- GENERAL NOTES:
1. DRAINAGE FROM ROADWAY TO BE DIRECTED TO ROADSIDE DITCHES AND DETAINED WITH THE USE OF CHECK DAMS
 - 1.1. STREET SECTION REVISED TO ALLOW FOR ADDITIONAL STORAGE WHILE MAINTAINING REQUIRED 4:1 SLOPES
 2. EACH LOT TO DETAIN ALL STORMWATER ON SITE
 3. SEPTIC DESIGN BY OTHERS UPON VERIFICATION OF FEASIBILITY BY WEBER-MORGAN HEALTH DEPARTMENT
 4. AN EXCAVATION PERMIT IS REQUIRED FOR ALL WORK WITHIN THE EXISTING RIGHT OF WAY

- UTILITY KEYNOTES:
- ① EXISTING CULINARY WATERLINE (FIELD VERIFY SIZE AND TYPE)
 - ② EXISTING OVERHEAD POWER LINE
 - ③ EXISTING 2" GAS MAIN
 - ④ EXISTING FIRE HYDRANT
 - ⑤ EXISTING 36" RCP CULVERT
 - ⑥ PROPOSED FIRE HYDRANT
 - ⑦ PROPOSED 8" C-900 DR-18 PVC CULINARY WATERLINE
 - ⑧ PROPOSED 6" C-900 DR-18 PVC SECONDARY WATERLINE
 - ⑨ PROPOSED IRRIGATION PUMP STATION
 - ⑩ PROPOSED 2" BLOWOFF
 - ⑪ 24" FLARED END PIPE SECTION
 - ⑫ 15" FLARED END PIPE SECTION
 - ⑬ 6"x4" REDUCER
 - ⑭ CONNECT 4" PVC DRAIN TO STORM DRAIN BOX PER SH. CE5-01 DETAIL 7
 - ⑮ EXISTING DITCH TO BE FILLED AND PIPED AS SHOWN

- LEGEND
- | | |
|--|----------------------------|
| | SUBDIVISION BOUNDARY |
| | LOT LINE |
| | EXISTING FENCE |
| | EXISTING WATER LINE |
| | EXISTING STORM DRAIN |
| | EXISTING SANITARY SEWER |
| | EXISTING SECONDARY WATER |
| | EXISTING OVERHEAD POWER |
| | EXISTING GAS LINE |
| | EXISTING CABLE |
| | EXISTING WATER METER |
| | EXISTING FIRE HYDRANT |
| | EXISTING WATER VALVE |
| | EXISTING IRRIGATION VALVE |
| | EXISTING CATCH BASIN |
| | EXISTING SANITARY MANHOLE |
| | PROPOSED SAWCUT |
| | NEW WATER METER |
| | NEW SANITARY SEWER MANHOLE |
| | NEW LAND DRAIN MANHOLE |
| | NEW STREET LIGHT |
| | NEW FIRE HYDRANT |
| | NEW CATCH BASIN |
| | SECONDARY SINGLE SERVICE |
| | SECONDARY DOUBLE SERVICE |
| | PROPOSED ASPHALT |



SCALE: 1" = 60'	DATE: 9-2021	DESIGN: JKH	DRAWN: JKH	CHECKED:
REVISIONS				
DATE	DESCRIPTION	ADDED TEMPORARY TURNAROUND AND EASEMENT INFO		
10/27/21				
DWG:				
OVERALL UTILITY PLAN				
MOUNTAIN VIEWS SUBDIVISION				
7500 W				
WEST WEBER, WEBER, UTAH				
CIVIL • LAND PLANNING MUNICIPAL • LAND SURVEYING				
51150 SOUTH 375 EAST OGDEN, UT OFFICE: 801.476.0202 FAX: 801.476.0066				
CE1-01				



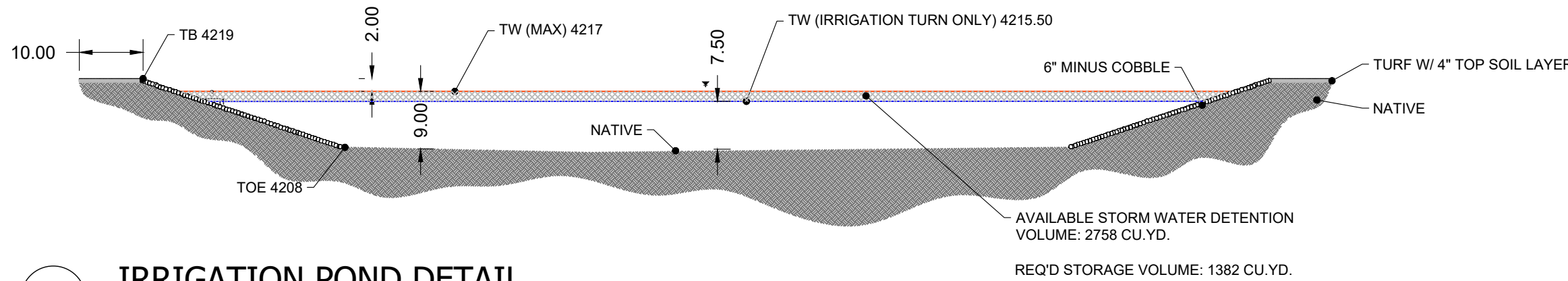
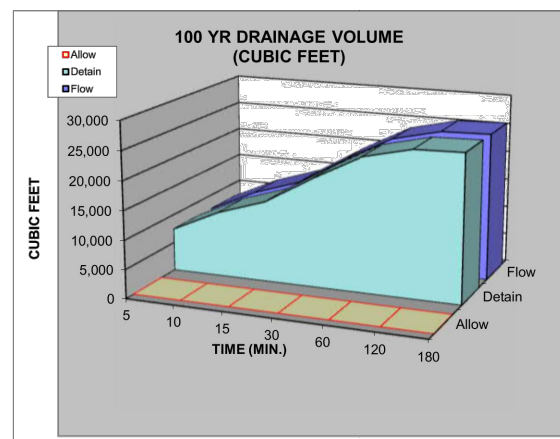
Mountain View Land and Livestock
Ogden, Weber County, Utah

(Area excluding lots and R.O.W. for 7650 W)

Areas	Sq. Ft.	Acres	C
Hard Surface	163,600	3.7557	0.85
Landscape	466,100	10.7001	0.15
Total/Weighted	629,700	14.4559	0.33

Runoff Vol (cu)	Inch / Hr	Total Vol (cu)	Detention Vol (cu)
MIN	0	5.17	7.441
5	0	3.00	13.312
10	0	3.25	14.032
15	0	2.19	18.911
30	0	1.35	23.315
60	0	0.732	25.284
120	0	0.402	25.491
180	0	0.27	27.978
360	0	0.140	30.860
720	0	0.09	37.304
1440	0	0.09	37.304

*NOAA Data



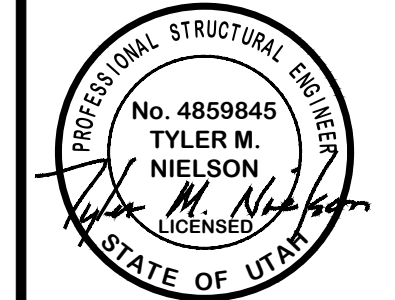
1 IRRIGATION POND DETAIL

Scale: NTS

- LEGEND**
- SUBDIVISION BOUNDARY
 - LOT LINE
 - EXISTING FENCE
 - EXISTING WATER LINE
 - EXISTING STORM DRAIN
 - EXISTING SANITARY SEWER
 - EXISTING SECONDARY WATER
 - EXISTING OVERHEAD POWER
 - EXISTING GAS LINE
 - EXISTING CABLE
 - EXISTING WATER METER
 - EXISTING FIRE HYDRANT
 - EXISTING WATER VALVE
 - EXISTING IRRIGATION VALVE
 - EXISTING CATCH BASIN
 - EXISTING SANITARY MANHOLE
 - PROPOSED SAWCUT
 - NEW WATER METER
 - NEW SANITARY SEWER MANHOLE
 - NEW LAND DRAIN MANHOLE
 - NEW STREET LIGHT
 - NEW FIRE HYDRANT
 - NEW CATCH BASIN
 - SECONDARY SINGLE SERVICE
 - SECONDARY DOUBLE SERVICE
 - PROPOSED ASPHALT

0' 30' 60' 120' 180'
Scale in Feet
1" = 60'

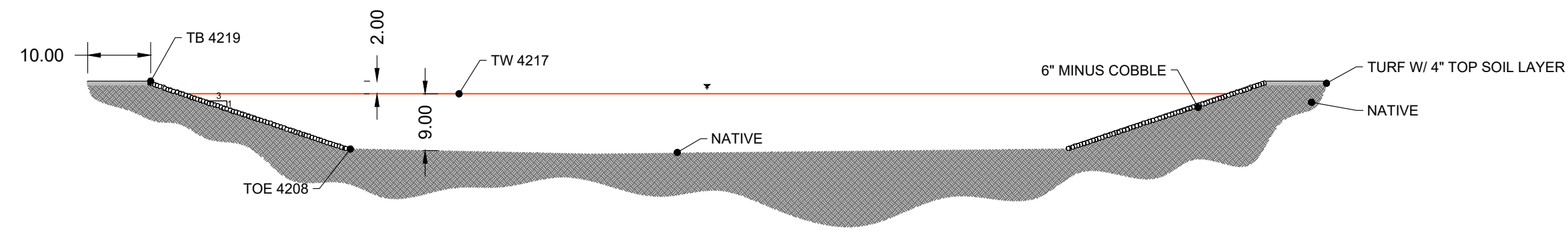
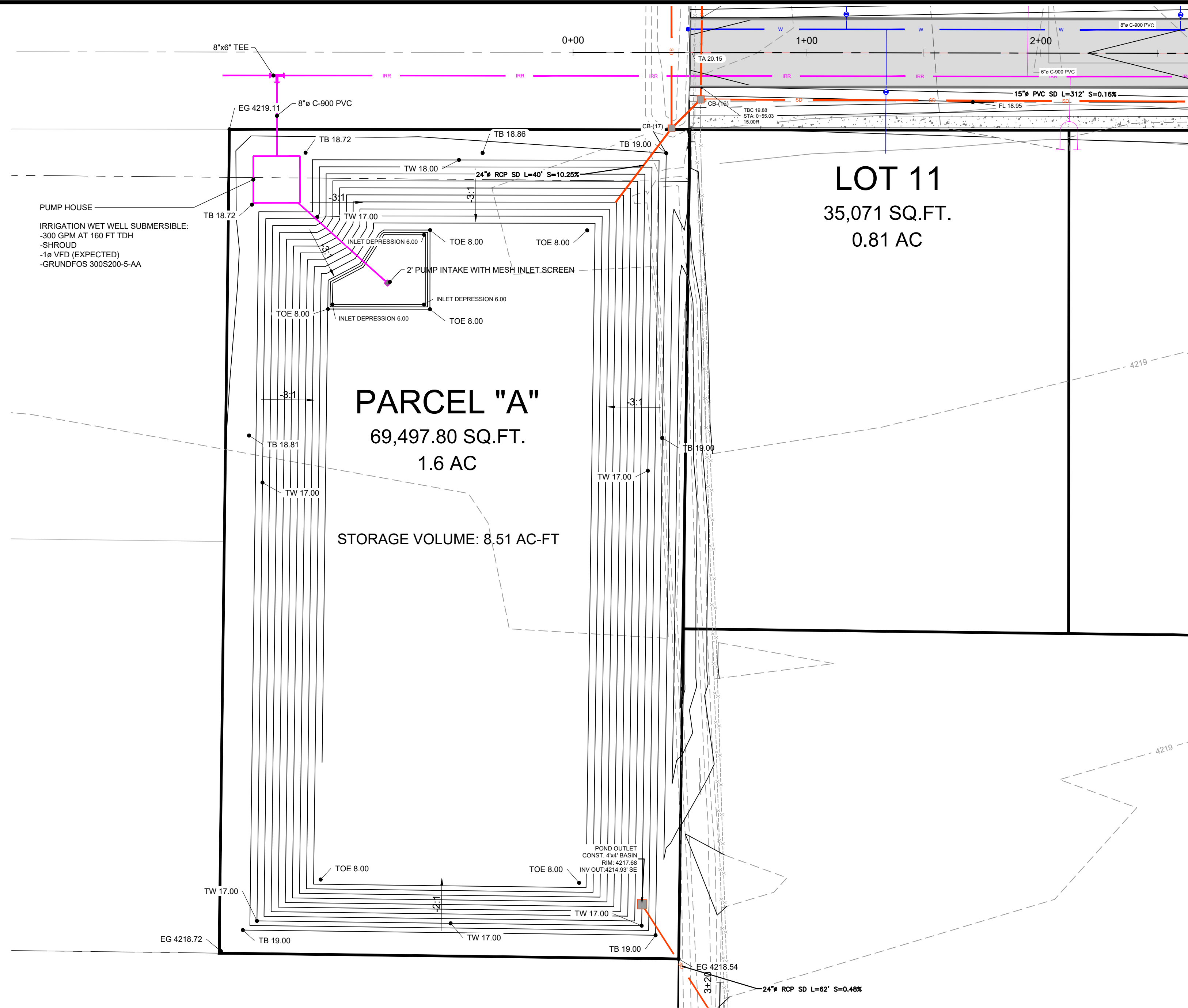
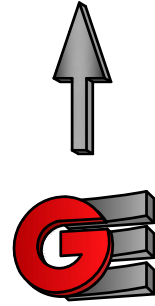
REVISIONS	DATE	DESCRIPTION
1	10/27/21	REMOVED CHECK DAMS, ADDED STORMWATER CALCULATIONS AND POND DETAIL



GRADING AND DRAINAGE
MOUNTAIN VIEWS SUBDIVISION
7500 W
WEST WEBER, WEBER, UTAH



CE1-02



1 IRRIGATION POND DETAIL

Scale: NTS

IRRIGATION CALCULATIONS:

CYCLE (C) = 8 DAYS
IRRIGATION FREQUENCY (F) = 3 DAYS
APPLICATION DEPTH (DG) = .8"

$$C := 8$$
$$F := 3$$
$$X := \frac{C}{F} = 2.667$$

$$D_g := 0.8 \text{ in} \text{ ---> DEPTH APPLIED PER APPLICATION}$$

$$D_{gt} := D_g \cdot X = 2.133 \text{ in} \text{ ---> DEPTH APPLIED PER IRRIGATION CYCLE}$$

INFLOW PER IRRIGATION TURN:

$$V_{IN} := \frac{5.5 \cdot 448 \cdot (15 \cdot 60)}{325851} \text{ ACREFT} = 6.806 \text{ ACREFT}$$

PER LOT IRRIGATABLE AREA:

$$LOTS := 100 \text{ (TOTAL NUMBER OF LOTS TO BE SERVED BY PROPOSED POND)}$$

$$A_{IRR, TOTAL} := \frac{V_{IN}}{D_{gt}} = 38.281 \text{ acre}$$

$$A_{IRR, LOT} := \frac{A_{IRR, TOTAL}}{LOTS} = 0.383 \text{ acre}$$

---> ALLOWABLE IRRIGATABLE AREA PER LOT = 16775 SQ.FT.

IF NEEDED, IRRIGATABLE AREA MAY BE INCREASED DUE TO ALTERNATIVE INFLOW SOURCES

ADDITIONAL INFLOW SOURCES:
- EFFLUENT FROM WASTEWATER TREATMENT PLANT

PUMP REQUIREMENTS:

$$P := 7.92 \text{ ---> PEAK INSTANTANEOUS DEMAND (GPM/IRRIGATED ACRE)}$$

$$A_{IRR} := 38.21 \text{ acre}$$

$$Q_{PUMP} := P \cdot A_{IRR} = 302.623 \text{ GPM}$$

LONGEST PIPE RUN WITHOUT LOOP = 3007 FT
FRICTION HEADLOSS ALONG PIPE RUN

-8"ø C-900 PIPE
-ROUGHNESS COEFFICIENT (C) = 130 (CONSERVATIVELY)
-PIPE RUN COVERS 45 LOTS --> Q = 136.5 GPM

$$H_f := 5.64$$

$$SP := 65 \text{ PSI (OPERATING STATIC PRESSURE)}$$

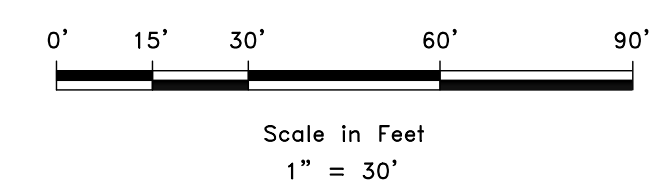
$$H_{PSI} := 2.31 \text{ (FEET OF HEAD PER PSI)}$$

---> TOTAL DYNAMIC HEAD

$$TDH := (SP \cdot H_{PSI}) + H_f = 155.79$$

LEGEND

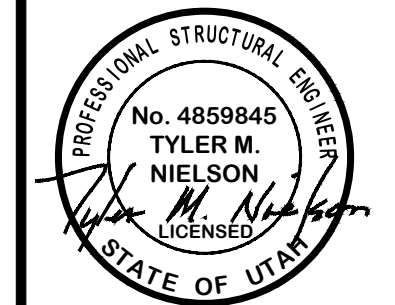
	SUBDIVISION BOUNDARY
	LOT LINE
	EXISTING FENCE
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	NEW LAND DRAIN MANHOLE
	NEW STREET LIGHT
	NEW FIRE HYDRANT
	NEW CATCH BASIN
	SECONDARY SINGLE SERVICE
	SECONDARY DOUBLE SERVICE
	PROPOSED ASPHALT



SCALE	1" = 30'
DATE	3-2021
DESIGN	JKH
DRAWN	JKH
CHECKED	

REVISIONS	DESCRIPTION
DATE	

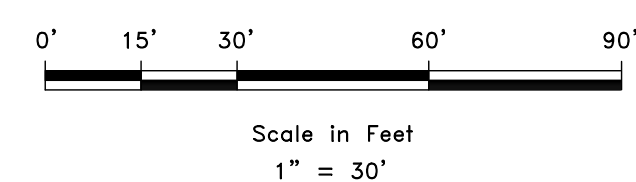
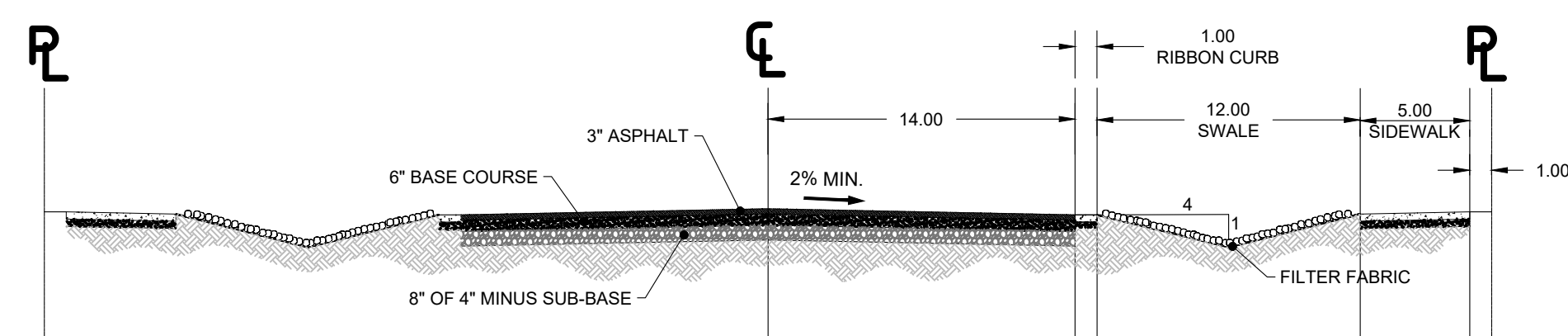
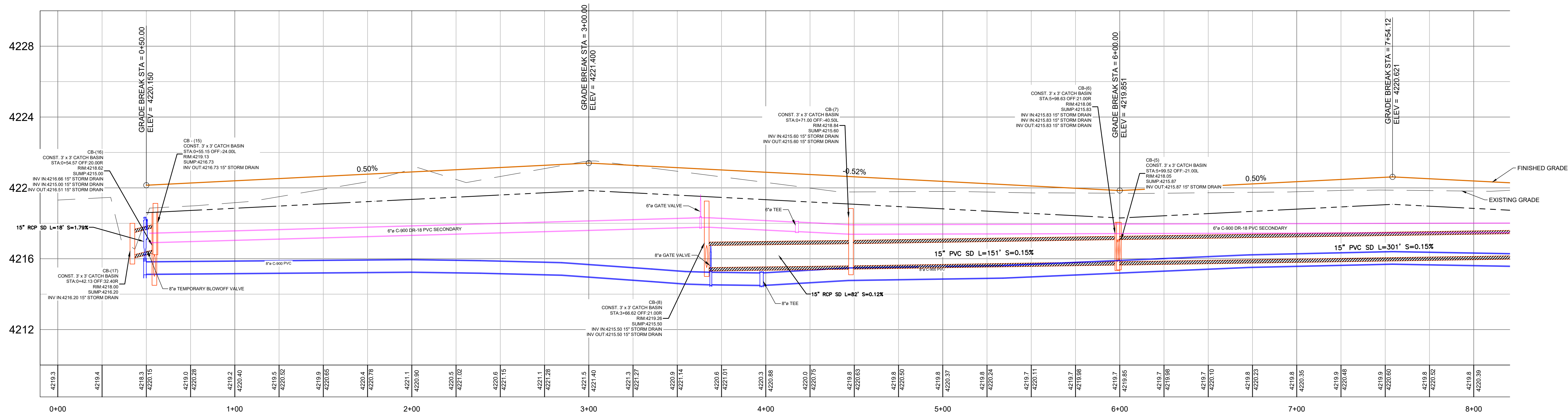
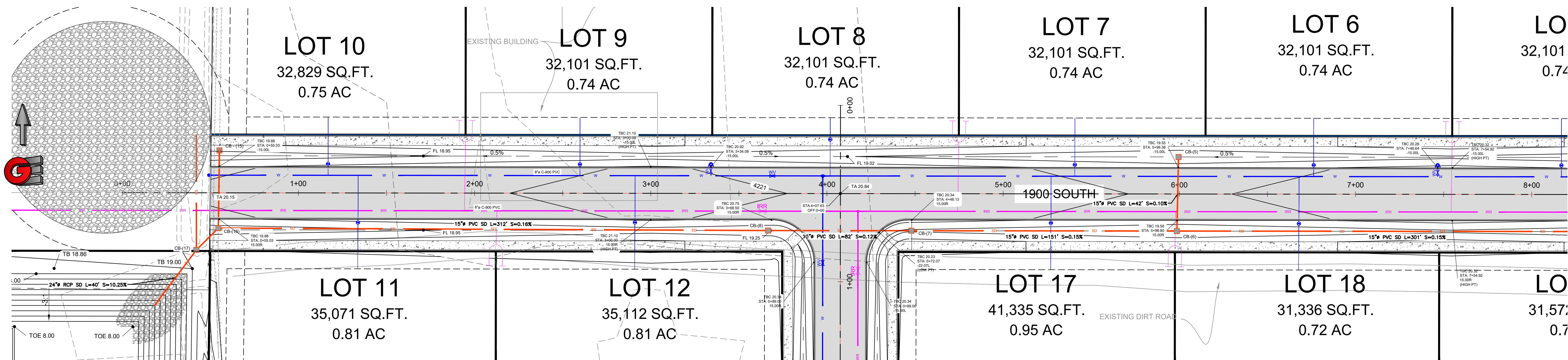
DWG:



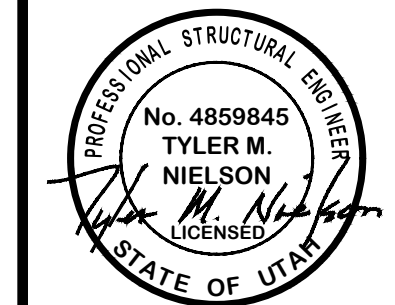
IRRIGATION POND
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7500 W
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CE1-03



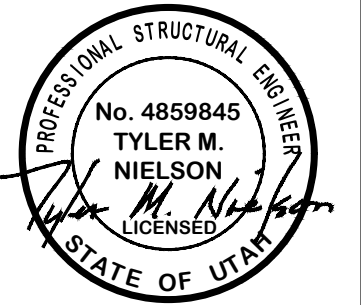
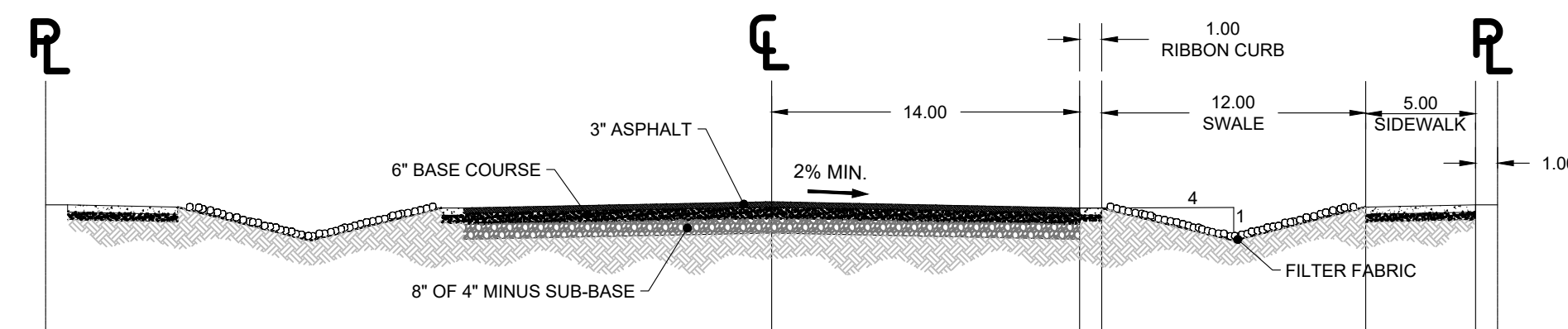
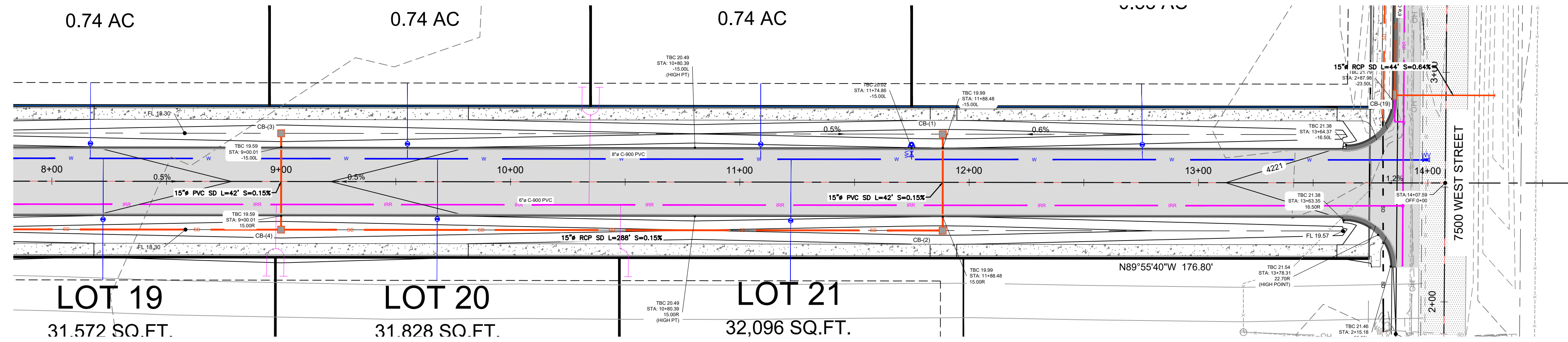
REVISIONS	DATE	DESCRIPTION
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1900 S PLAN AND PROFILE
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CE2-01



REVISIONS	
DATE	DESCRIPTION
10/27/21	ADDED GRADE LINE
	TAGS

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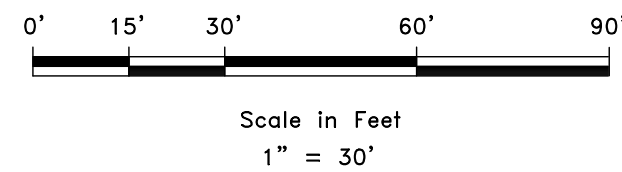
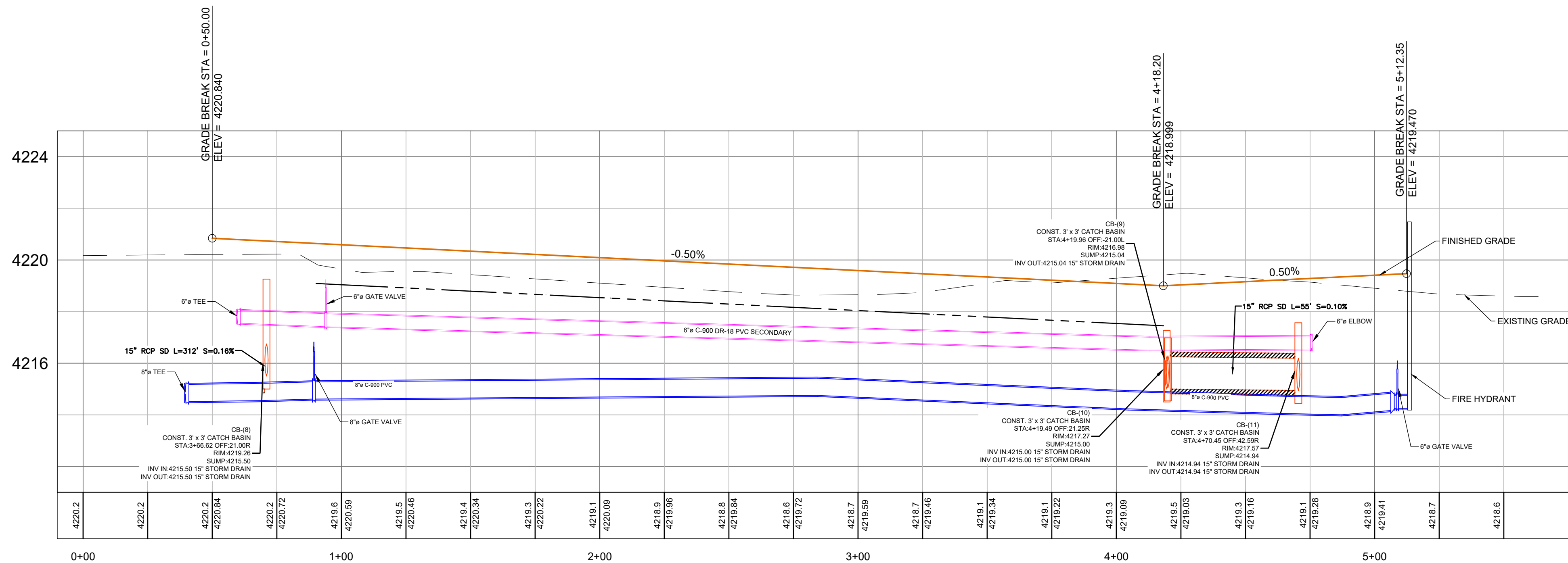
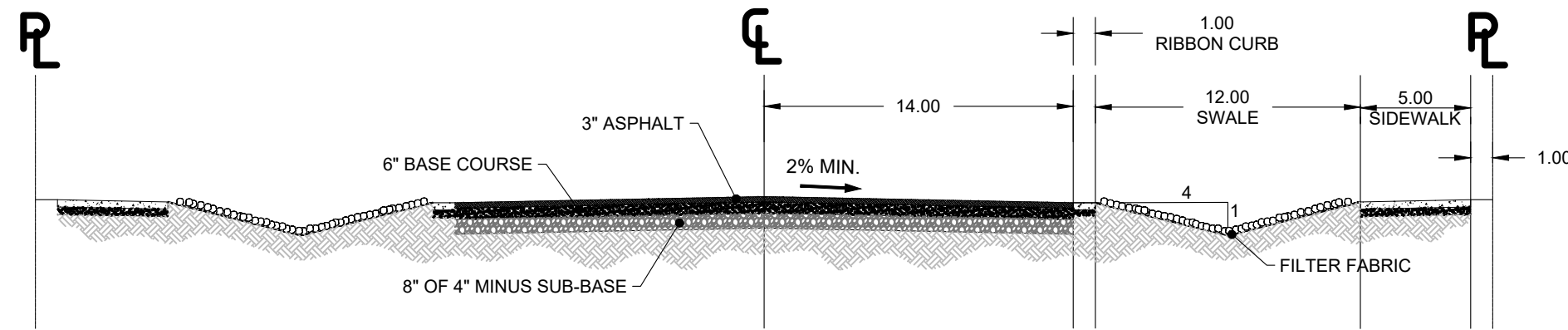
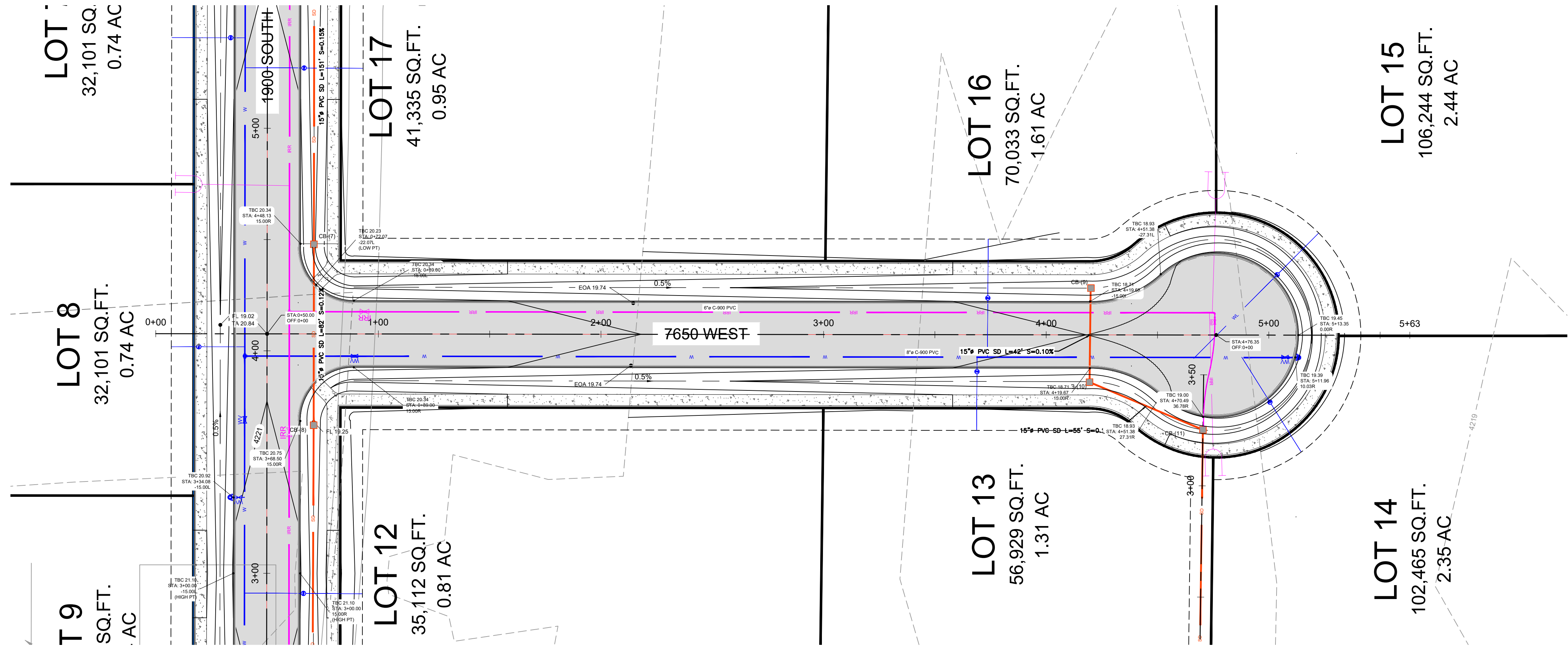
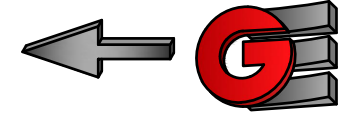
1900 S PLAN AND PROFILE
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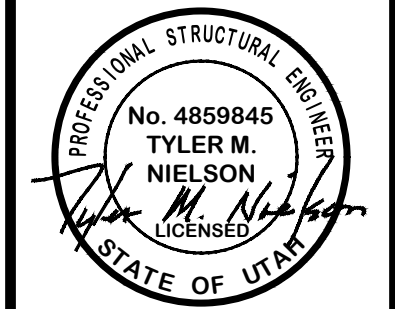
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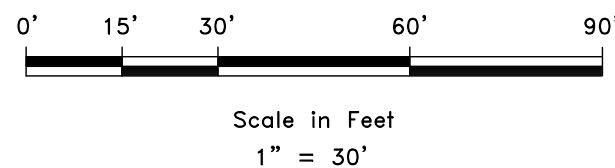
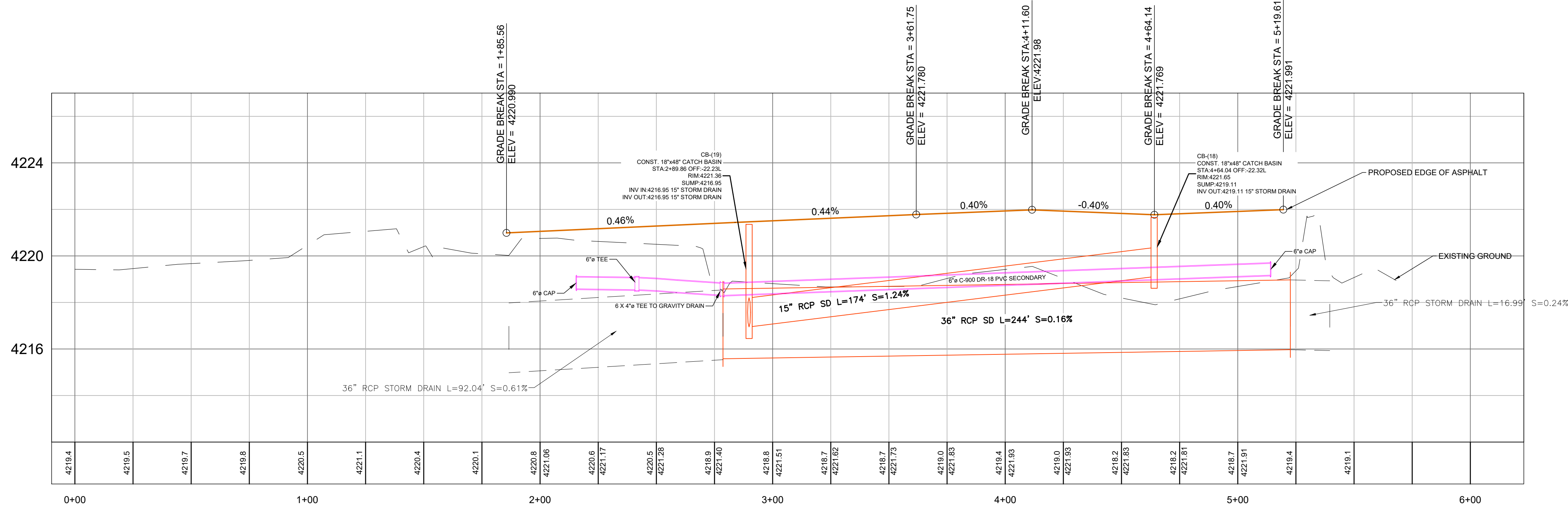
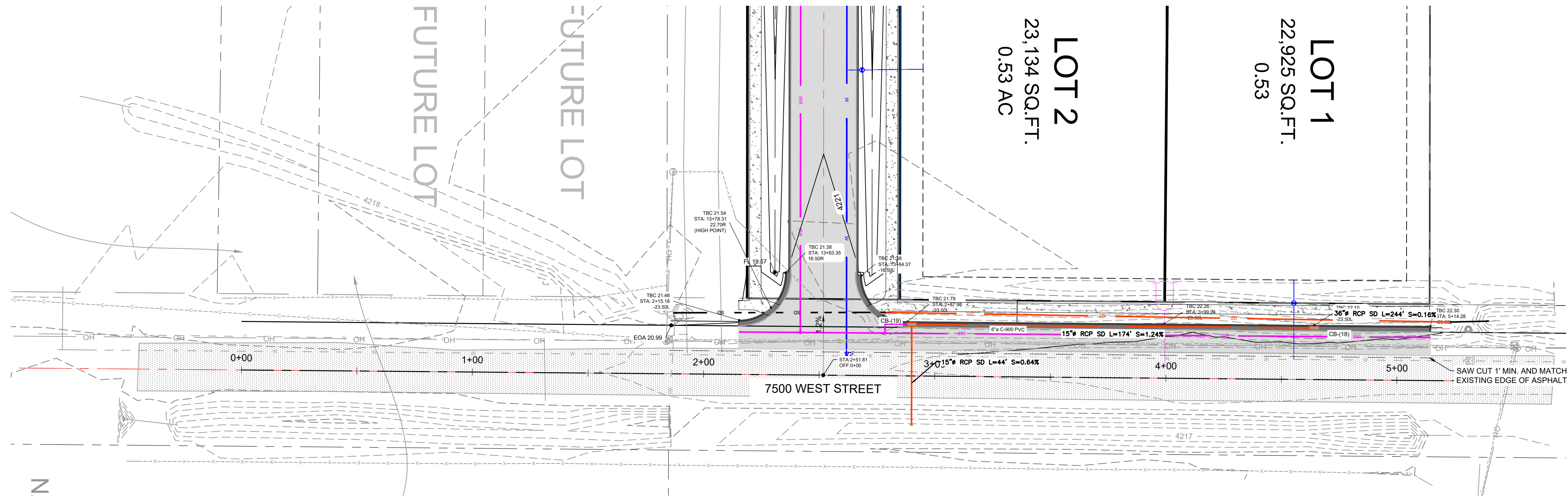
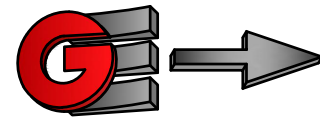
CE2-03

7650 W PLAN AND PROFILE
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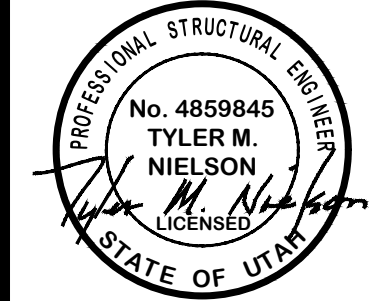
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DATE	DESCRIPTION
10/27/21	ADDED GRADE LINE TAGS
DWG: _____	

SCALE: 1" = 30'	REVISIONS
DATE: 3-2021	DATE
DESIGN: JKH	DESCRIPTION
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CE2-04

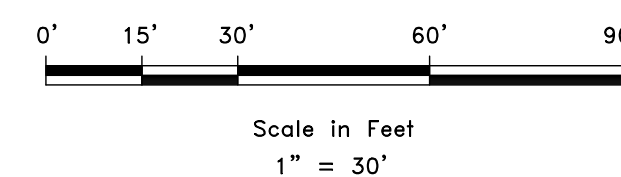
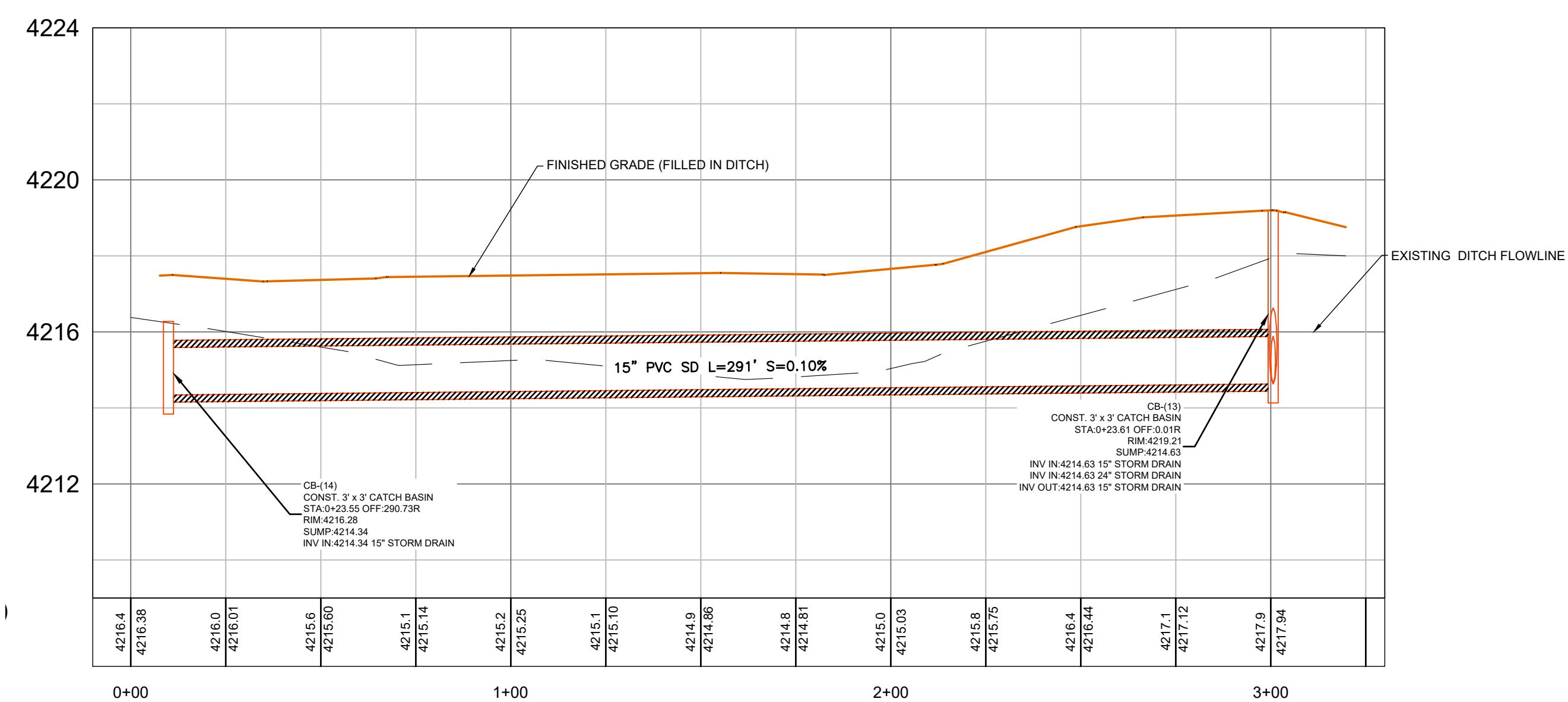
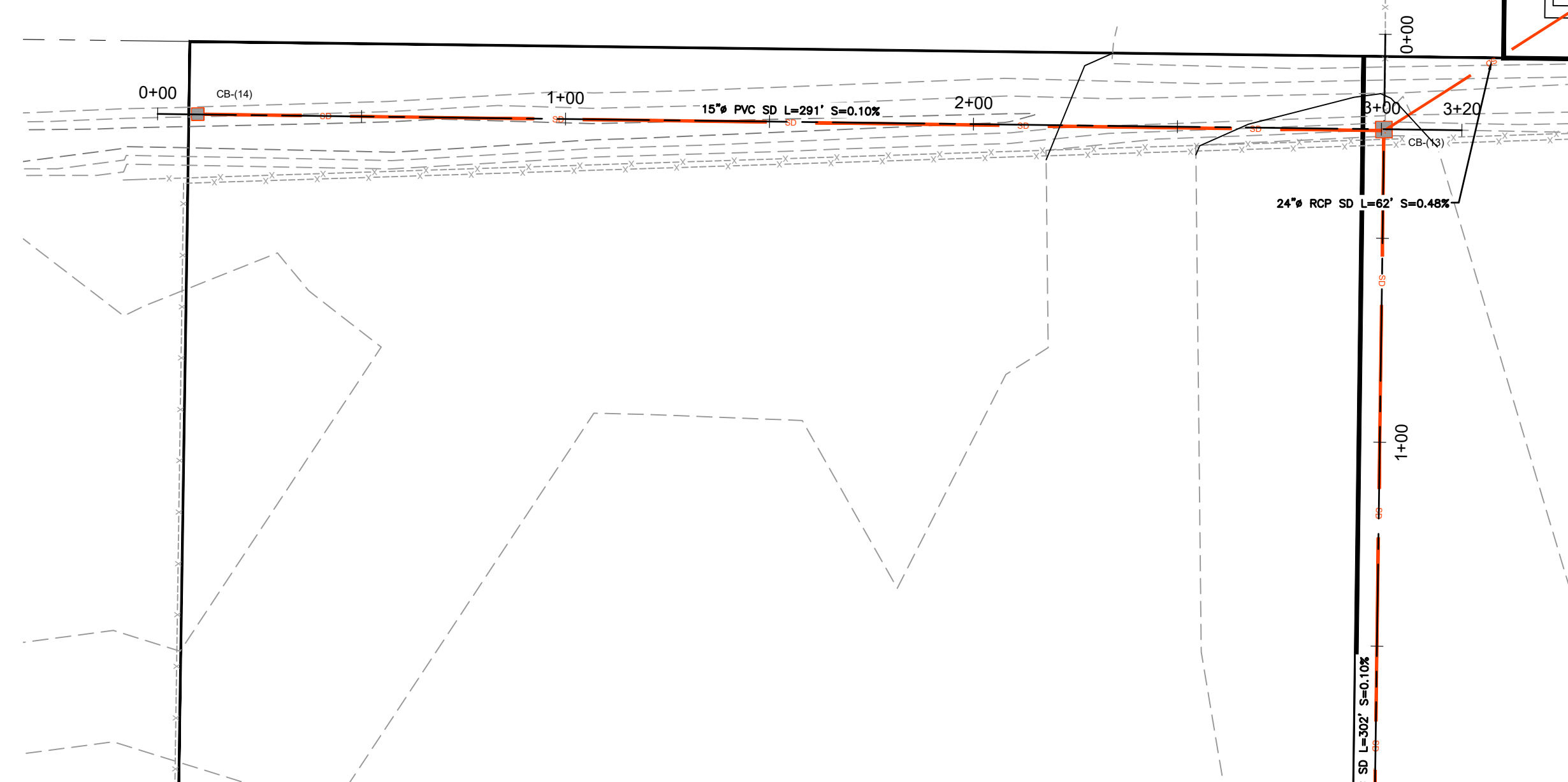
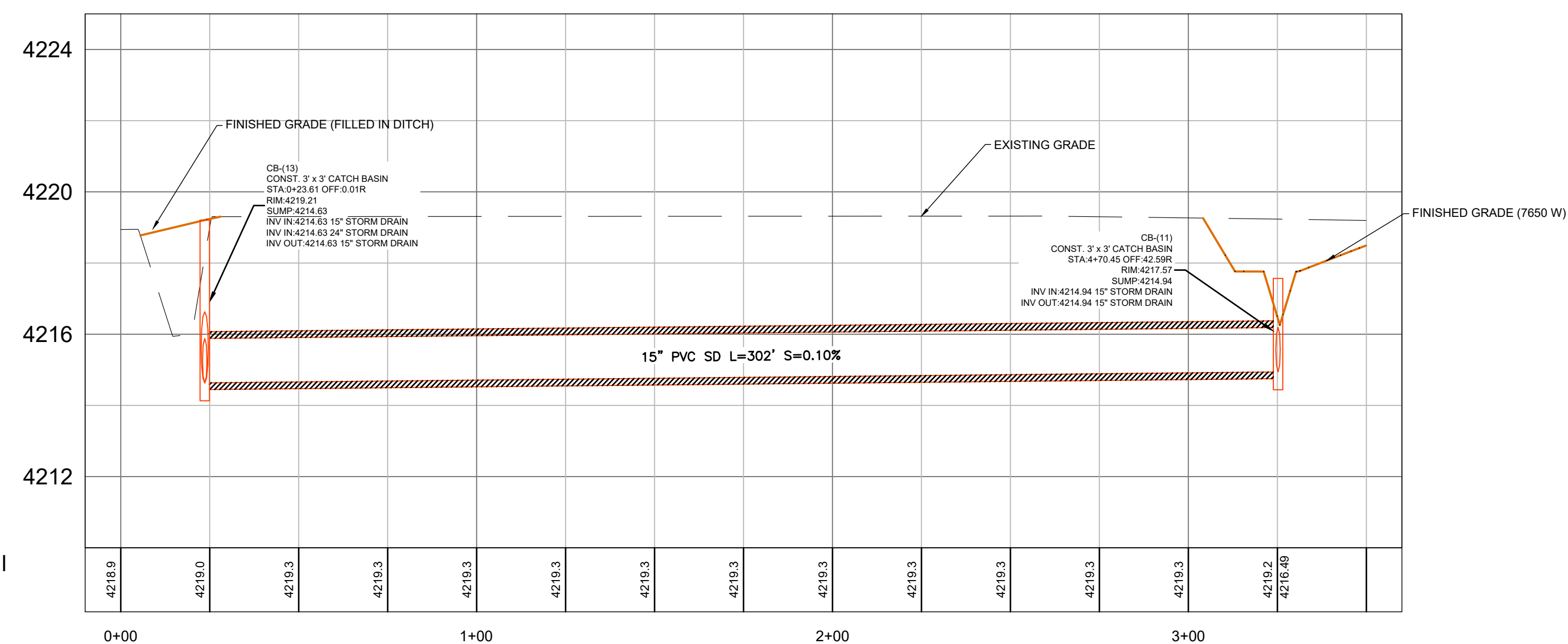
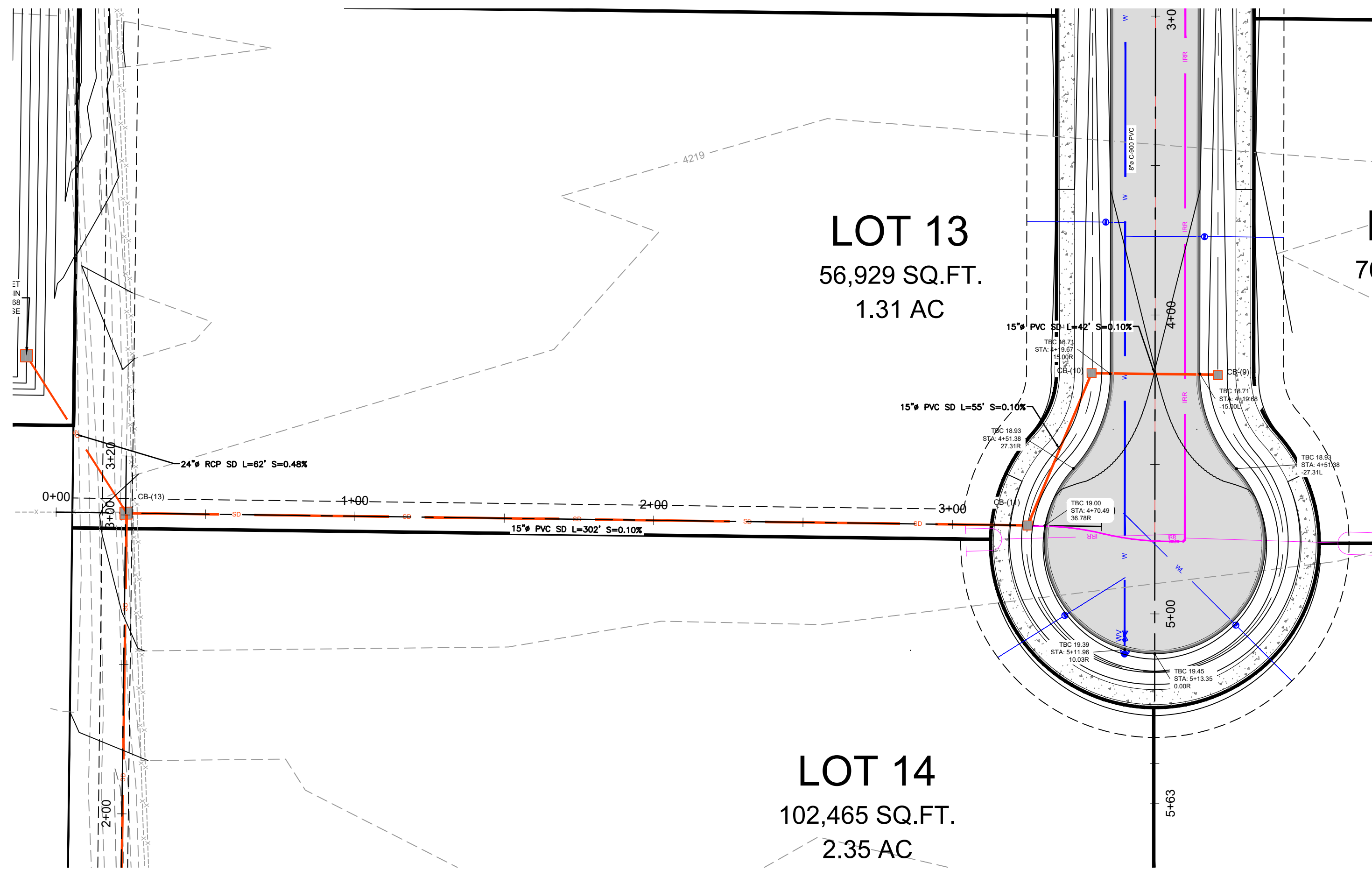
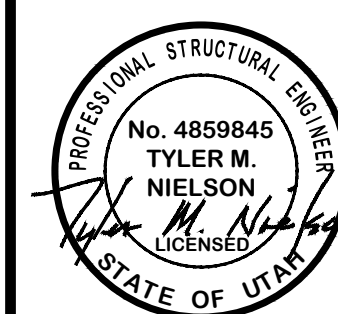
7500 W PLAN AND PROFILE
MOUNTAIN VIEWS SUBDIVISION
7500 W
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REVISIONS	DATE	DESCRIPTION

DWG:	CHECKED	DATE	DESIGN	DATE	SCALE

SCALE	1" = 30'
DATE	9-2021
DESIGN	JKH
DRAWN	JKH
CHECKED	

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7650 W DRAINAGE OUTFALL
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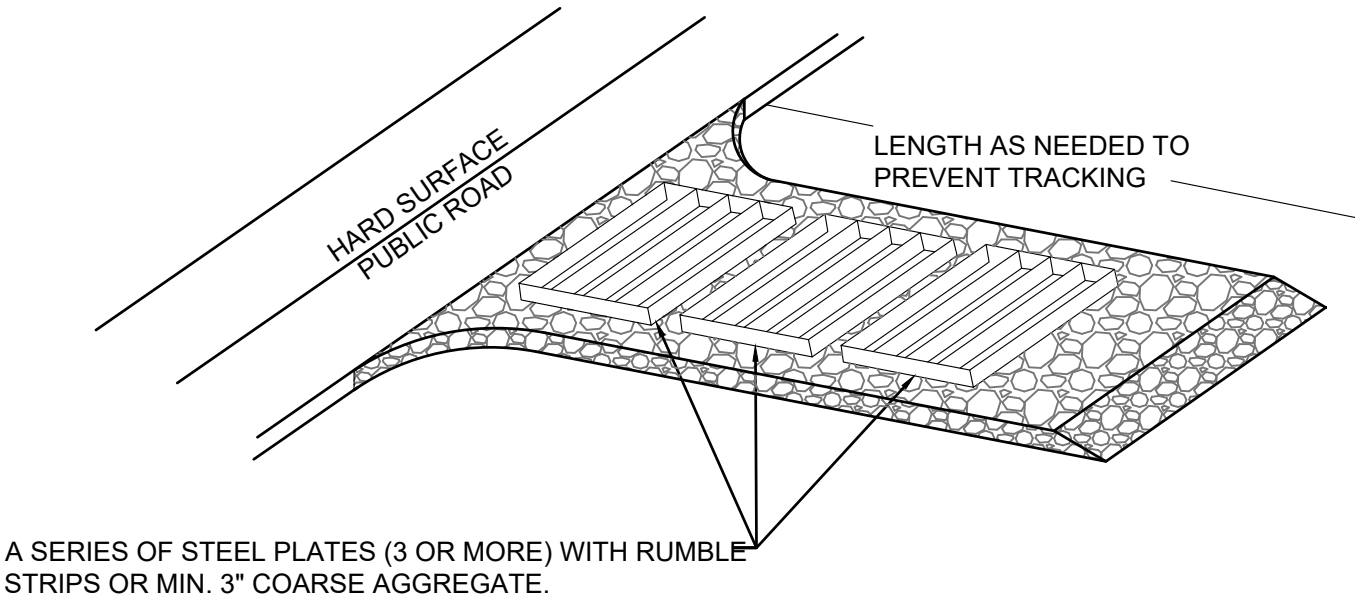
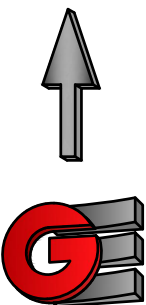
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CE5-01

EROSION CONTROL NOTES:

1. SANDBAGS WILL BE PLACED AT DISCHARGE LOCATIONS TO CONTAIN AND DIVERT STORM WATER THROUGH THE INLET PROTECTION.
2. AN EARTHEN BERM 6" HIGH WILL BE CONSTRUCTED TO CONTAIN THE STORM WATER AND DIVERT IT TO DISCHARGE AREAS.
3. STORM WATER WILL BE DISCHARGED INTO AN EXISTING DRAINAGE SYSTEM. EXISTING LINES SHALL BE INSPECTED PRIOR TO CERTIFICATE OF OCCUPANCY AND CLEANED IF NECESSARY.
4. THE STORM WATER POLLUTION PREVENTION PLAN SHALL CONFORM TO ALL STATE DIVISION OF ENVIRONMENTAL PROTECTION REGULATIONS.



ENTRANCE STABILIZATION NOTES:

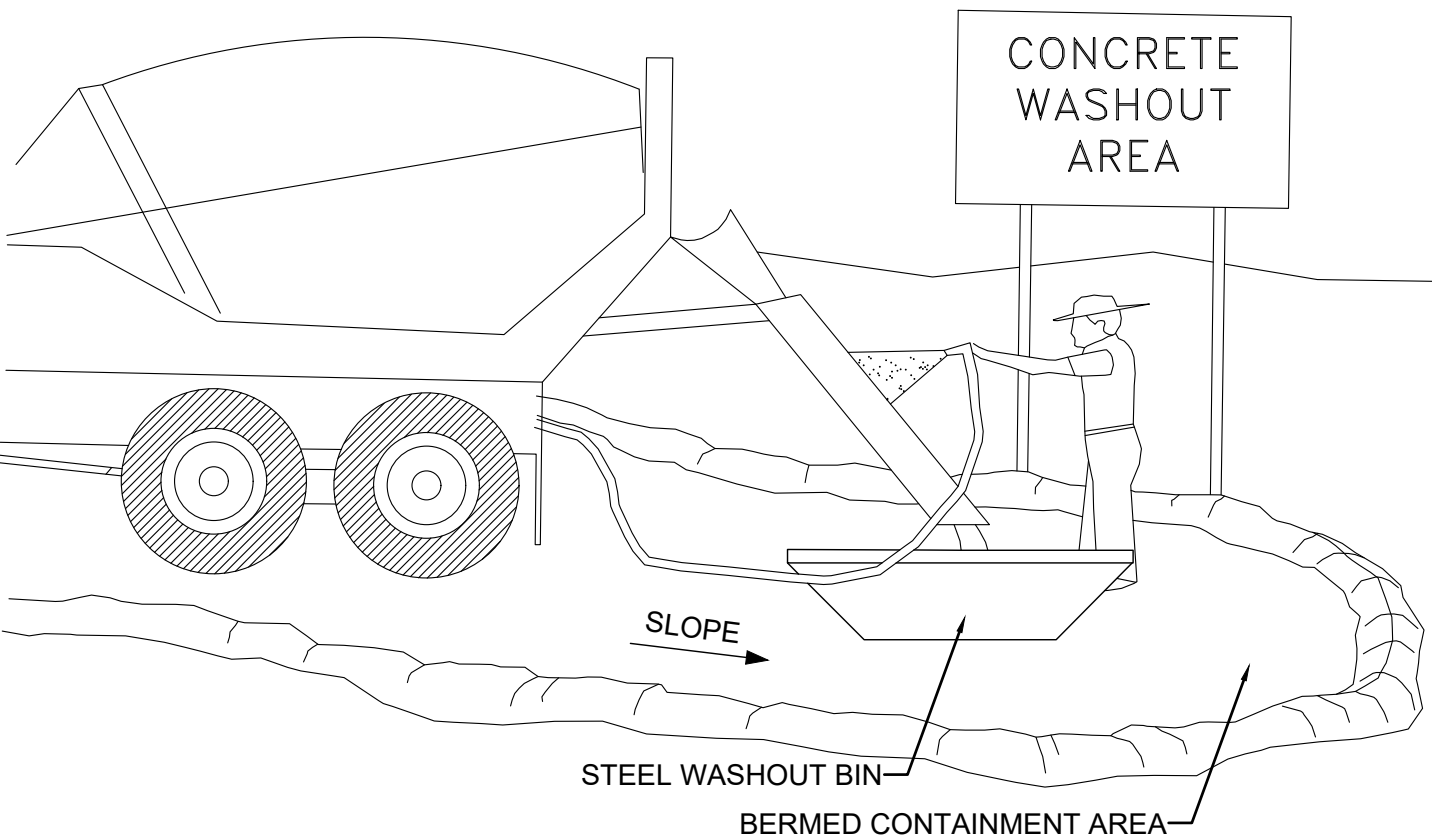
1. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE STORM DRAIN SYSTEMS. DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE:
 - a. LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY AND SIDEWALK OR PARKING AREA.
 - b. A SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN. 3" COARSE AGGREGATE WITH LENGTH, WIDTH AND THICKNESS AS NEEDED TO ADEQUATELY PREVENT ANY TRACKING ONTO PAVED SURFACES.
3. ADDING A WASH RACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER CAN GREATLY IMPROVE EFFICIENCY.
4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.

STREET MAINTENANCE NOTES:

1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
2. SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
3. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

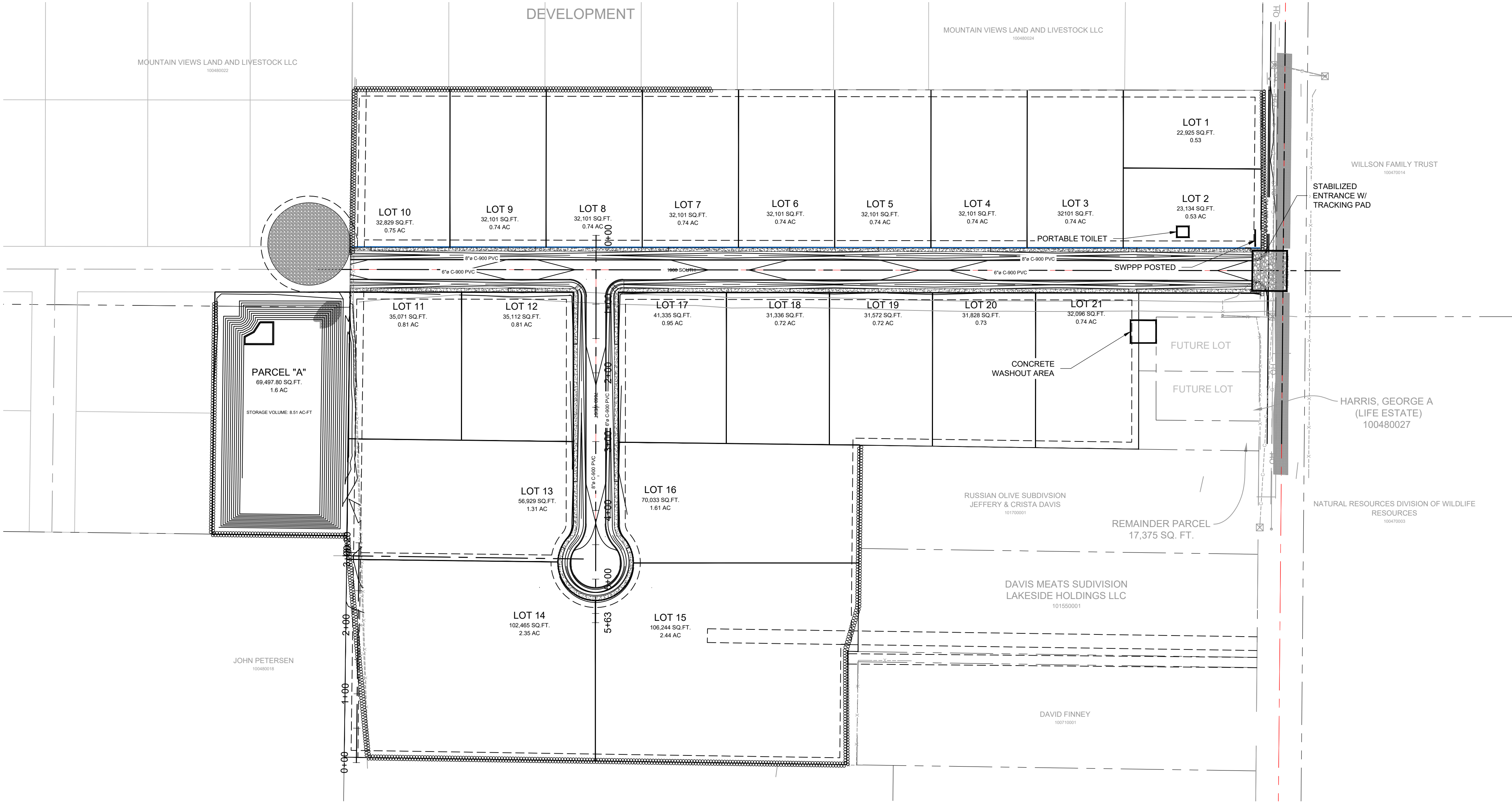
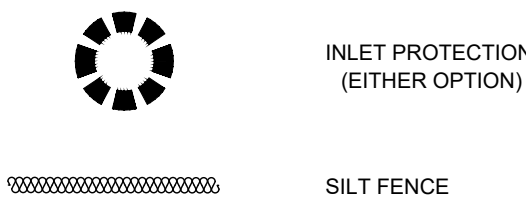
NOTE:

CONTRACTOR SHALL COMPLETE AND SUBMIT A STATE NOTICE OF INTENT (NOI) AND A STORM WATER POLLUTION PREVENTION PLAN BOOKLET



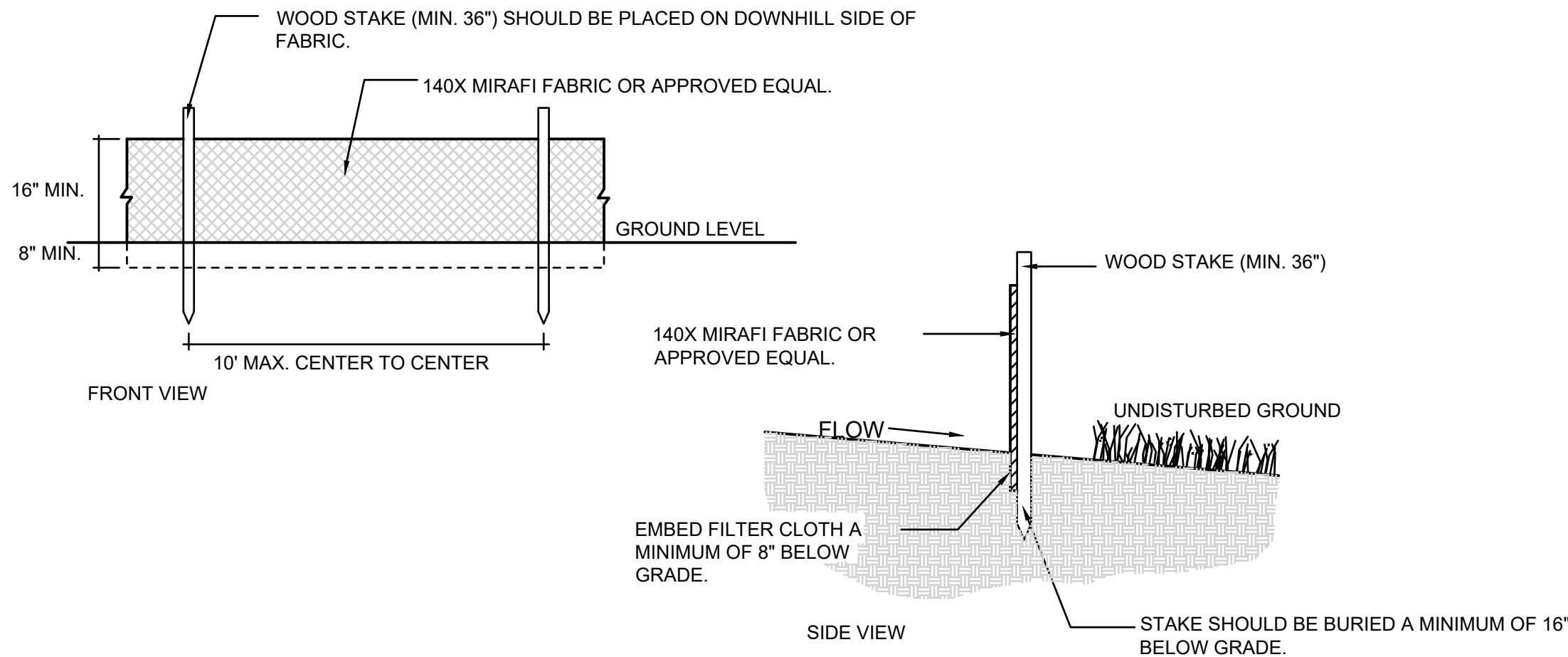
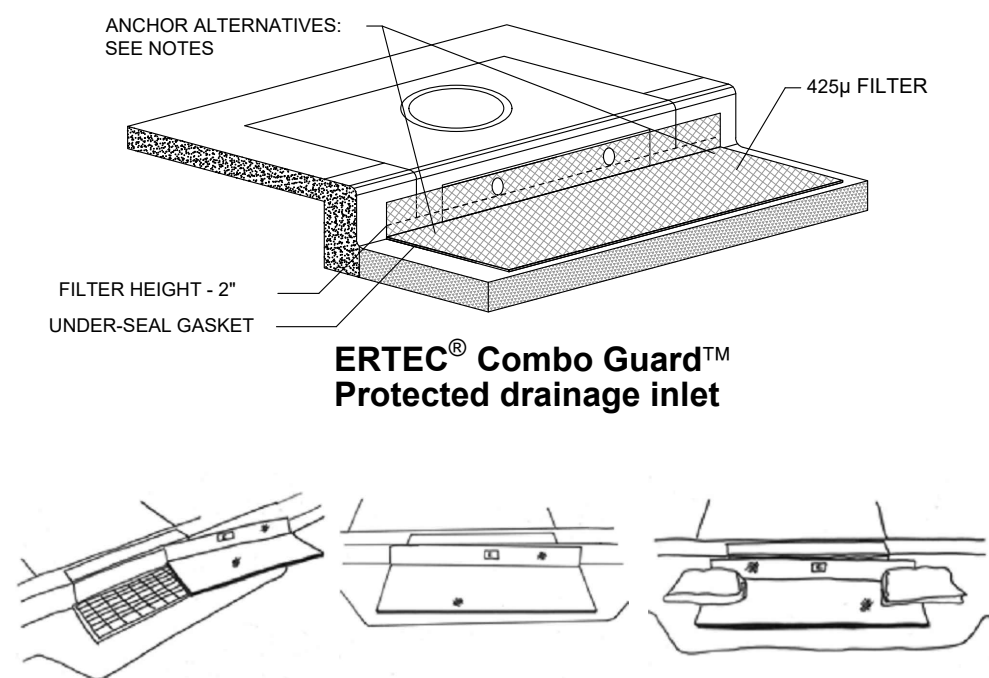
NOTES:

1. EXCESS AND WASTE CONCRETE SHALL BE DISPOSED OF OFF SITE OR AT DESIGNATED AREAS ONLY.
2. EXCESS AND WASTE CONCRETE SHALL NOT BE WASHED INTO THE STREET OR INTO A DRAINAGE SYSTEM.
3. FOR WASHOUT OF CONCRETE AND MORTAR PRODUCTS ONSITE, A DESIGNATED CONTAINMENT FACILITY OF SUFFICIENT CAPACITY TO RETAIN LIQUID AND SOLID WASTE SHALL BE PROVIDED.
4. ONSITE CONCRETE WASHOUT CONTAINMENT FACILITY SHALL BE A STEEL BIN OR APPROVED ALTERNATE.
5. SLURRY FROM CONCRETE AND ASPHALT SAW CUTTING SHAL BE VACUUMED OR CONTAINED, DRIED, PICKED UP AND DISPOSED OF PROPERLY.



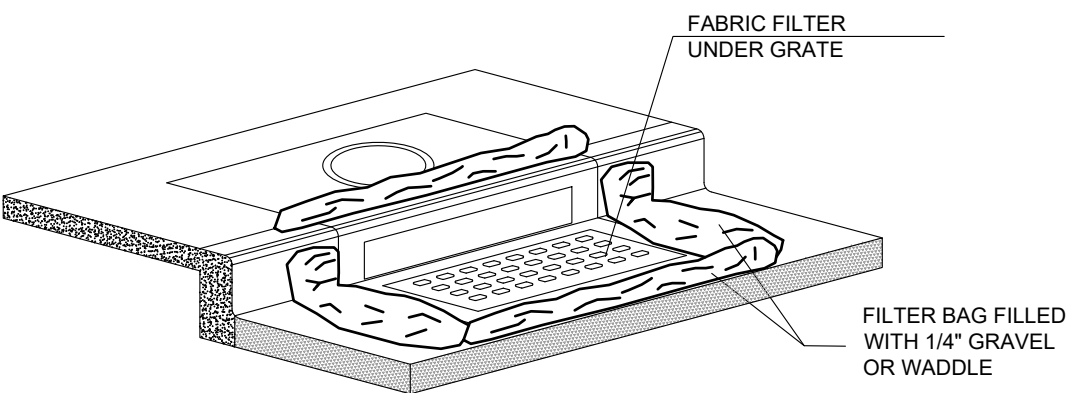
INSTALLATION NOTES

1. PLACEMENT: PLACE CG TIGHTLY AGAINST CURB OPENING AND COVER ENTIRE GRATE. CG SHOULD EXTEND AT LEAST 2 INCHES PAST GRATE TOWARDS STREET.
2. OVERLAP FOR LONG OPENINGS: OVERLAP CG UNITS AT LONGER OPENINGS.
3. ANCHOR: ANCHOR CG SO THAT WATER CANNOT FLOW BEHIND IT.
4. ALTERNATE ANCHOR METHODS: A) INSTALL GRAVEL BAGS AT EACH SIDE OF CG - HALF-ON AND HALF-OFF THE EDGES. USE HALF-FILLED GRAVEL BAGS (15 OR 20 LBS). ROUND ROCK IS RECOMMENDED. OR B) ATTACH WITH 16 GAUGE TIE-WIRE. CUT WIRE TO 18" LENGTH. AT EACH CORNER OF CG, FEED ONE END OF WIRE DOWN THROUGH CG, AROUND GRATE BAR, AND BACK UP THRU CG. ABOVE GROUND, TWIST WIRES SEVERAL TIMES, CUT-OFF EXCESS. OR C) FASTEN WITH CONCRETE ANCHORS/NAILS AT THE OUTSIDE EDGES OF CG.



1A INLET PROTECTION - OPTION 1

Scale: NTS

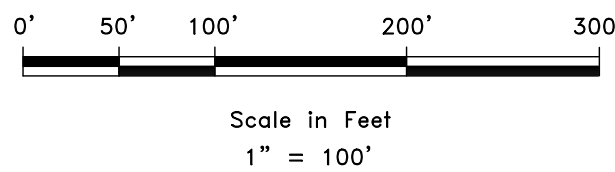


1B INLET PROTECTION - OPTION 2

Scale: NTS

2 SILT FENCE

Scale: NTS



REVISIONS		DATE	DESCRIPTION

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CE6-01