

EAST ESTATES

CONSTRUCTION DOCUMENTS OGDEN, 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 THE WEBER COUNTY STANDARD DRAWING, AND SHALL BE APPROVED BY THE WEBER COUNTY ENGINEER PRIOR TO ANY WORK.
2. NO STREET SHALL BE CLOSED TO TRAFFIC WITHOUT WRITTEN PERMISSION FROM THE 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 THE 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.

SANITARY SEWER GENERAL NOTES

1. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN CONFORMANCE WITH WEBER COUNTY STANDARDS AND SPECIFICATIONS.
2. ALL GRAVITY SANITARY SEWER LINES SHALL BE SDR-35 PVC MATERIAL. SEWER LINE CONSTRUCTION AND MATERIALS SHALL CONFORM TO ASTM STANDARDS AND SPECIFICATIONS.
3. DISTANCES SHOWN ON PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT.
4. 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 THE STANDARD SPECIFICATIONS. ALL FRAMES SHALL BE ADJUSTED TO FINAL GRADE.
5. ALL SANITARY SEWER MAIN TESTING SHALL BE IN ACCORDANCE WITH WEBER COUNTY STANDARDS AND SPECIFICATIONS. COPIES OF ALL TEST RESULTS SHALL BE PROVIDED TO THE PUBLIC WORKS SANITARY SEWER DEPARTMENT HEAD PRIOR TO FINAL ACCEPTANCE.
6. COMPACTION TESTING OF ALL TRENCHES WITH THE PROJECT SITE MUST BE ATTAINED AND RESULTS SUBMITTED TO THE WEBER COUNTY ENGINEER PRIOR TO FINAL ACCEPTANCE.
7. CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING STRUCTURES AND IMPROVEMENTS DURING INSTALLATION OF SANITARY SEWER LINE.
8. 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.
9. CAMERA TESTING AND PRESSURE TESTING PER WEBER COUNTY STANDARD.

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 THE CITY 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 STATE OF UTAH.
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.

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 WEBER COUNTY 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 WEBER COUNTY 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 WEBER COUNTY PRIOR TO FINAL ACCEPTANCE.
5. ALL STORM DRAIN PIPES IN THE WEBER COUNTY 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 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 WEBER COUNTY 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 WEBER COUNTY 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. WEBER COUNTY 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 WEBER COUNTY FIRE HYDRANT, THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH TAYLOR WEST-WEBER WATER IMPROVEMENT DISTRICT TO OBTAIN A WATER METER.

CULINARY WATER GENERAL NOTES

1. ALL INSTALLATION AND MATERIALS SHALL CONFORM TO TAYLOR WEST-WEBER WATER IMPROVEMENT DISTRICT 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 WEBER COUNTY.
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 TAYLOR WEST-WEBER WATER IMPROVEMENT DISTRICT 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 TAYLOR WEST-WEBER WATER IMPROVEMENT DISTRICT.
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. TAYLOR WEST-WEBER WATER IMPROVEMENT DISTRICT 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.

SITE DATA

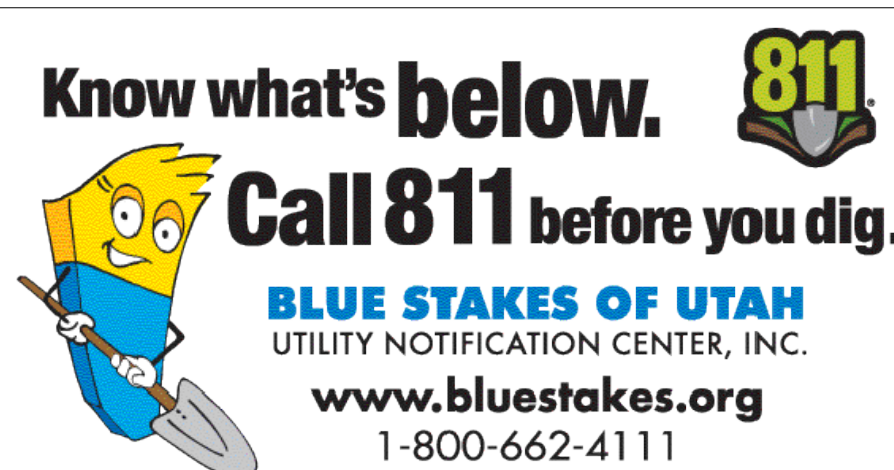
FLOOD INFORMATION

FEME FLOOD ZONE X

BENCHMARK INFORMATION

HANSEN CAP NEAR (NW) PROPERTY CORNER - EL=4236.33

UTAH STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83
ELEVATION DATA NAVD 88
DISTANCEES IN US SURVEY FEET (GRID)



ALL IMPROVEMENTS TO CONFORM TO WEBER COUNTY STANDARDS AND SPECIFICATIONS

CULINARY WATER IMPROVEMENTS TO CONFORM TO THE TAYLOR WEST-WEBER WATER IMPROVEMENT DISTRICT STANDARDS AND SPECIFICATIONS

SECONDARY WATER IMPROVEMENTS TO CONFORM TO THE HOOPER IRRIGATION STANDARDS AND SPECIFICATIONS

EAST ESTATES
CONSTRUCTION DOCUMENTS

UTILITY CONTACTS:

CULINARY WATER
 TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT
 2815 W 3300 S, WEST HAVEN, UT, 84401
 801-731-1668

SECONDARY WATER
 HOOPER IRRIGATION COMPANY
 5375 S 5500 W, HOOPER, UT, 84315
 801-985-8429

SANITARY SEWER
 WEBER COUNTY-CHAD MEYERHOFFER
 2380 WASHINGTON BLVD, OGDEN, UT, 84401
 801-399-8004

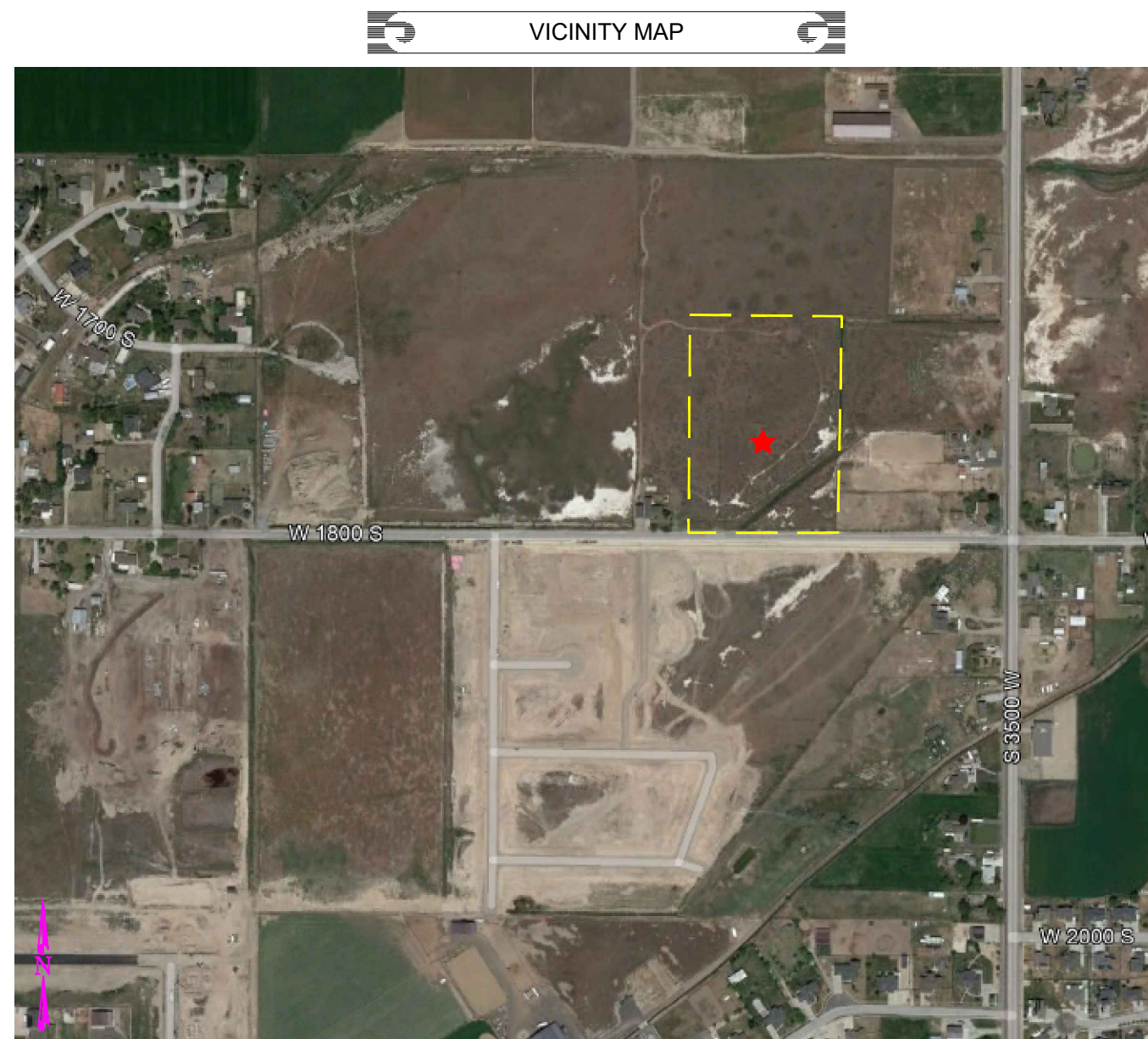
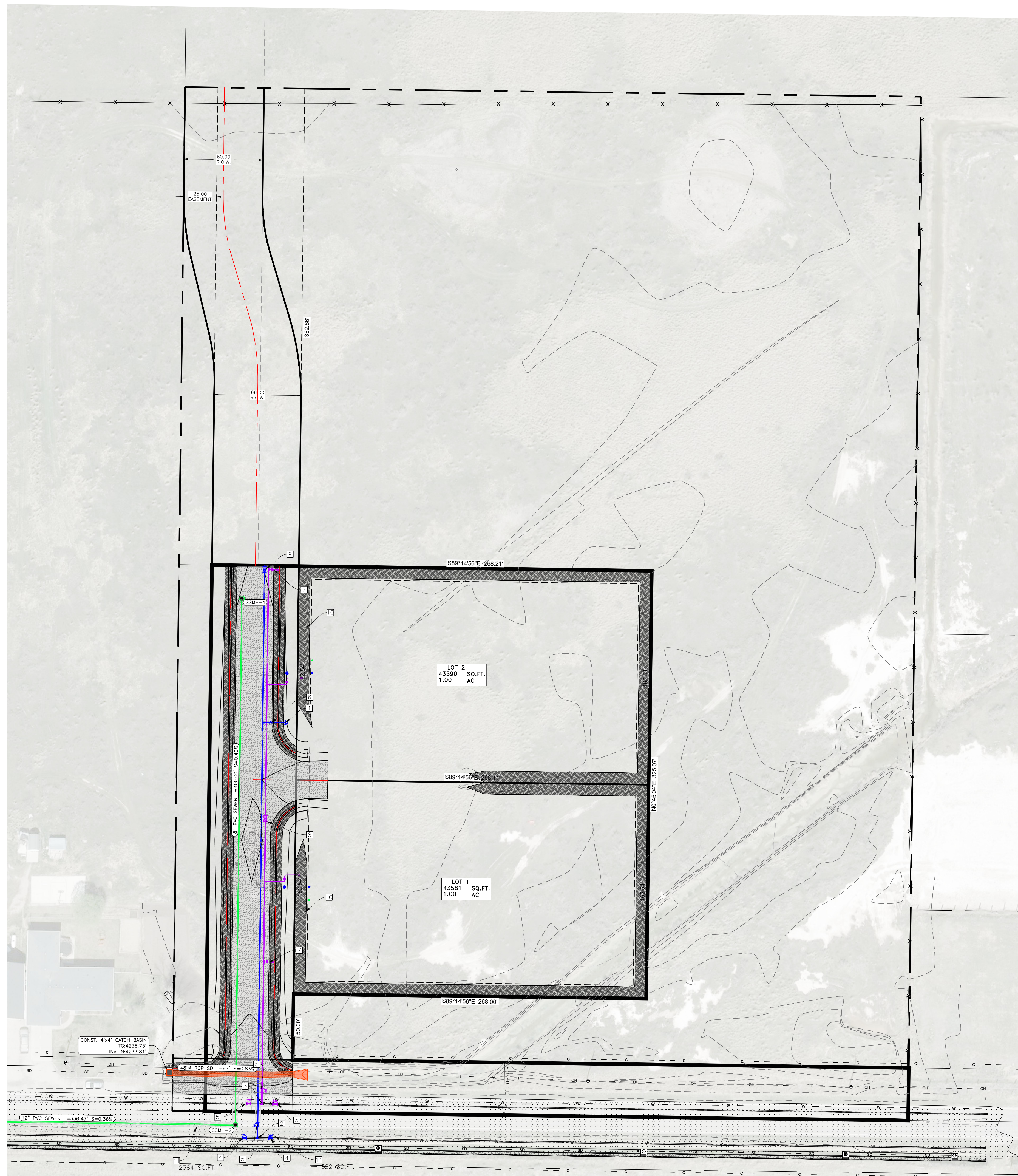
STORM SEWER
 WEBER COUNTY-CHAD MEYERHOFFER
 2380 WASHINGTON BLVD, OGDEN, UT, 84401
 801-399-8004

ELECTRIC
 ROCKY MOUNTAIN POWER
 635 1100 W, LAYTON, UT, 84041
 801-886-7007

GAS
 DOMINION ENERGY
 333 S STATE ST, SALT LAKE CITY, UT, 84145
 800-323-5517

TELEPHONE
 LUMEN/CENTURY LINK
 385-479-7345

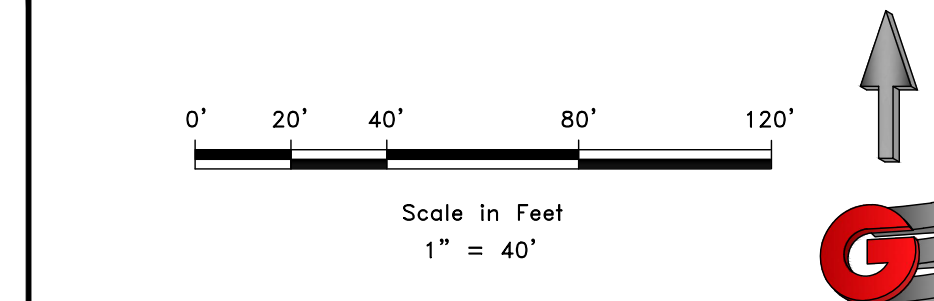
FIRE:
 WEBER FIRE DISTRICT
 DEPUTY CHIEF-DAVID REED
 801-782-3580 EXT. 205
 DREED@WEBERFD.COM



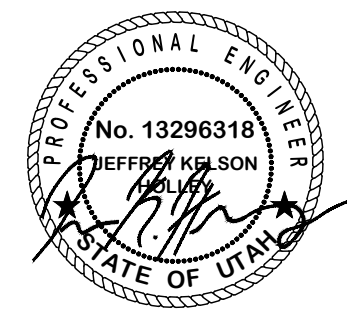
- KEYNOTES:**
- 1 PROPOSED FIRE HYDRANT
 - 2 8"x4" TEE
 - 3 8" TEE
 - 4 12" GATE VALVE
 - 5 8" GATE VALVE
 - 6 6" GATE VALVE
 - 7 PROPOSED GRAVITY DRAIN PER HOOPER IRRIGATION STANDARDS
 - 8 PROPOSED 8" COMBINATION AIR VALVE
 - 9 PROPOSED BLOW-OFF VALVE
 - 10 PROPOSED STORMWATER RETENTION BERM
 - 11 PROPOSED ASPHALT PATCHING

- LEGEND**
- SUBDIVISION BOUNDARY
 - LOT LINE
 - EXISTING FENCE
 - PUBLIC UTILITY EASEMENT
 - EXISTING WATER LINE
 - EXISTING STORM DRAIN
 - EXISTING SANITARY SEWER
 - EXISTING SECONDARY WATER
 - PROPOSED STORM DRAIN
 - PROPOSED WATER LINE
 - PROPOSED SANITARY LINE
 - EXISTING WATER METER
 - EXISTING FIRE HYDRANT
 - EXISTING WATER VALVE
 - EXISTING CATCH BASIN
 - EXISTING SANITARY MANHOLE
 - EXISTING STORM DRAIN MANHOLE
 - EXISTING LAND DRAIN MANHOLE
 - NEW WATER METER
 - NEW SANITARY SEWER MANHOLE
 - NEW STORM DRAIN MANHOLE
 - NEW CATCH BASIN
 - NEW LAND DRAIN MANHOLE
 - NEW STREET LIGHT
 - NEW FIRE HYDRANT
 - EXISTING PAVING
 - PROPOSED ASPHALT PAVING

DEVELOPER:
 DEVELOPER COMPANY
 ERIC GODFREY
 DEVELOPER ADDRESS
 DEVELOPER CITY
 801-628-0225

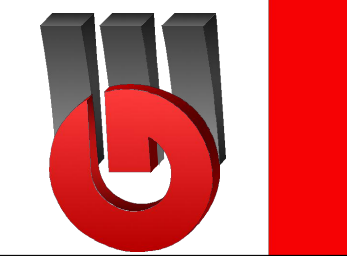


DATE	REVISIONS	DESCRIPTION

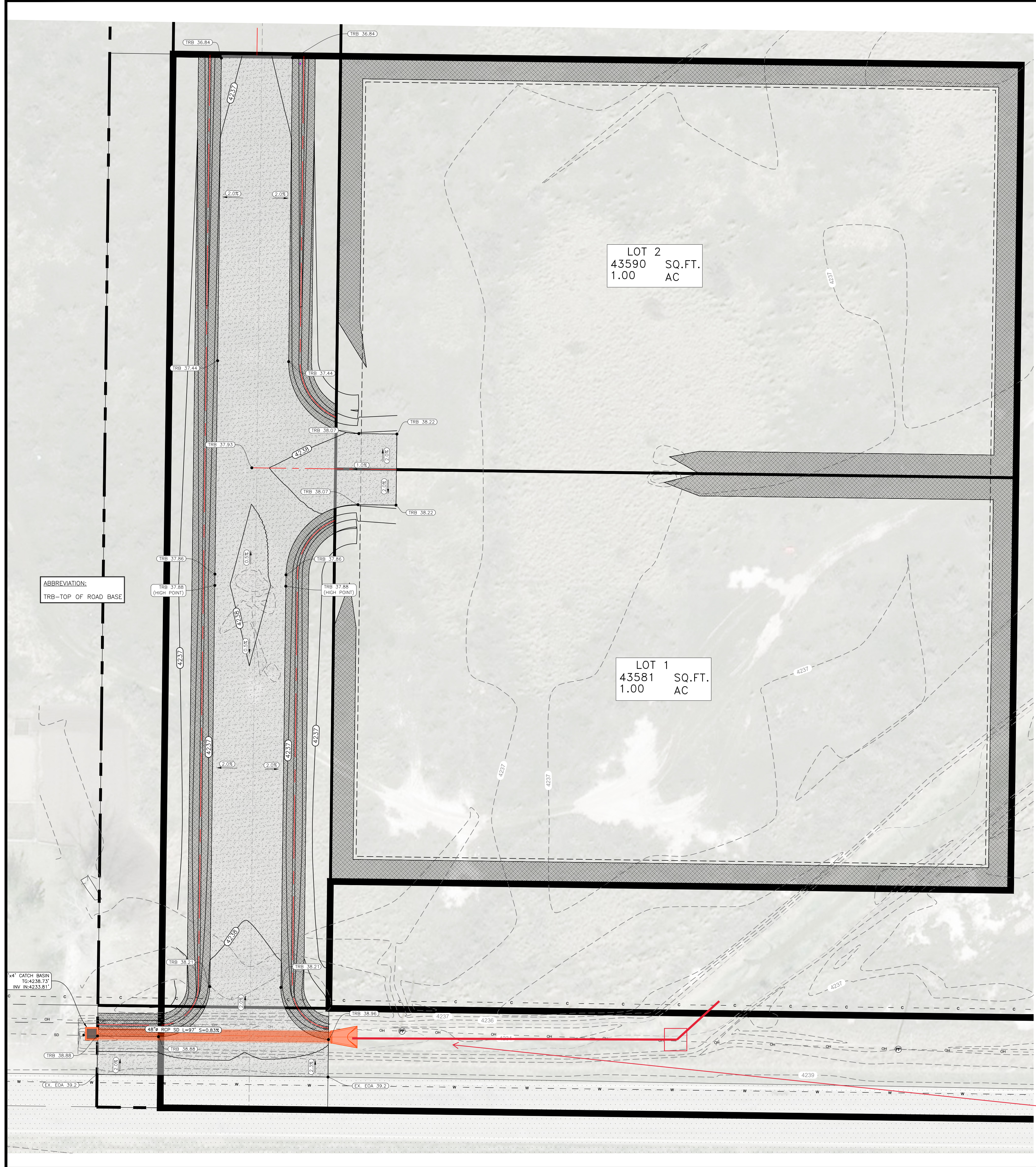


OVERALL UTILITY PLAN
EAST ESTATES
3600 W 1800 S
OGDEN, WEBER, UTAH

GARDNER ENGINEERING
 CIVIL - LAND PLANNING
 MUNICIPAL - LAND SURVEYING
 1580 W 2100 S, WEST HAVEN, UT 84401
 P 801.476.0202 F 801.476.0066



CE1-01



ABBREVIATION:
TRB—TOP OF ROAD BASE

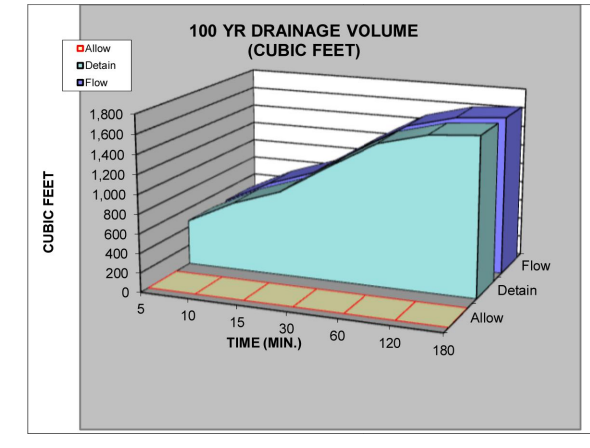
LOT 2
43590 SQ.FT.
1.00 AC

LOT 1
43581 SQ.FT.
1.00 AC

GODFREY SUBDIVISION (LOT 2)
Ogden, Weber County, Utah

Areas	Detained Area			Allow Release Rate (cfs/acre) Q Allowable (cfs)
	Sq. Ft.	Acres	C	
Hard Surface	5,500	0.1253	0.85	0.000 0.00
Landscape	38,090	0.8744	0.15	
Total/Weighted	43,590	1.0007	0.24	

100yr	Runoff Vol (cf)	Inch / Hr	Total Vol (cf)	Detain Vol (cf)	Difference
MIN	0	0	0	0	0
5	0	0.52	400	400	0
10	0	4.96	710	710	0
15	0	4.1	885	885	0
30	0	2.70	1,185	1,185	0
60	0	1.71	1,468	1,468	0
100	0	0.93	1,587	1,587	0
180	0	0.635	1,636	1,636	0
300	0	0.354	1,634	1,634	0
720	0	0.216	2,225	2,225	0
1440	0	0.12	2,472	2,472	0



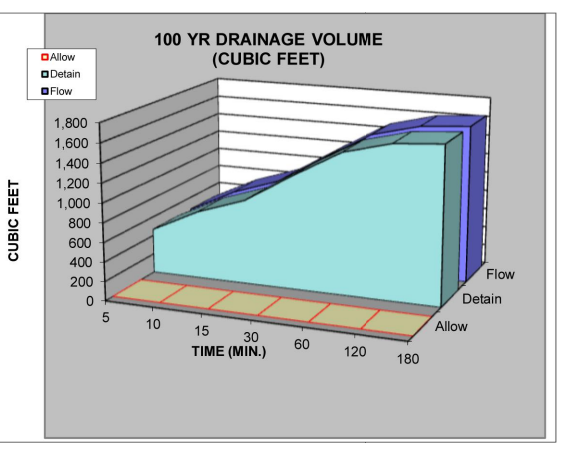
100 YEAR STORM RECOMMENDED MIN. VOLUME DETAINED: 2,473 92

LOT 2: REQUIRED RETENTION VOLUME—2473 CU.FT.
BERM AS NEEDED TO RETAIN RUNOFF ON LOT

GODFREY SUBDIVISION (LOT 1)
Ogden, Weber County, Utah

Areas	Detained Area			Allow Release Rate (cfs/acre) Q Allowable (cfs)
	Sq. Ft.	Acres	C	
Hard Surface	5,500	0.1253	0.85	0.000 0.00
Landscape	38,081	0.8742	0.15	
Total/Weighted	43,581	1.0005	0.24	

100yr	Runoff Vol (cf)	Inch / Hr	Total Vol (cf)	Detain Vol (cf)	Difference
MIN	0	0	0	0	0
5	0	0.52	400	400	0
10	0	4.96	710	710	0
15	0	4.1	885	885	0
30	0	2.70	1,185	1,185	0
60	0	1.71	1,468	1,468	0
100	0	0.93	1,587	1,587	0
180	0	0.635	1,636	1,636	0
300	0	0.354	1,634	1,634	0
720	0	0.216	2,225	2,225	0
1440	0	0.12	2,472	2,472	0



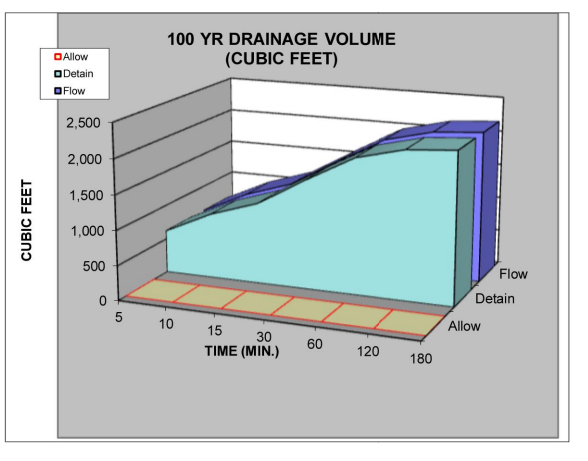
100 YEAR STORM RECOMMENDED MIN. VOLUME DETAINED: 2,472 92

LOT 1: REQUIRED RETENTION VOLUME—2472 CU.FT.
BERM AS NEEDED TO RETAIN RUNOFF ON LOT

GODFREY SUBDIVISION (R.O.W.)
Ogden, Weber County, Utah

Areas	Detained Area			Allow Release Rate (cfs/acre) Q Allowable (cfs)
	Sq. Ft.	Acres	C	
Hard Surface	13,922	0.3196	0.85	0.000 0.00
Landscape	13,476	0.3094	0.15	
Total/Weighted	27,398	0.6290	0.51	

100yr	Runoff Vol (cf)	Inch / Hr	Total Vol (cf)	Detain Vol (cf)	Difference
MIN	0	0	0	0	0
5	0	0.52	622	622	0
10	0	4.96	947	947	0
15	0	4.1	1,174	1,174	0
30	0	2.70	1,580	1,580	0
60	0	1.71	1,958	1,958	0
100	0	0.93	2,150	2,150	0
180	0	0.635	2,181	2,181	0
300	0	0.354	2,422	2,422	0
720	0	0.216	2,968	2,968	0
1440	0	0.12	3,299	3,299	0



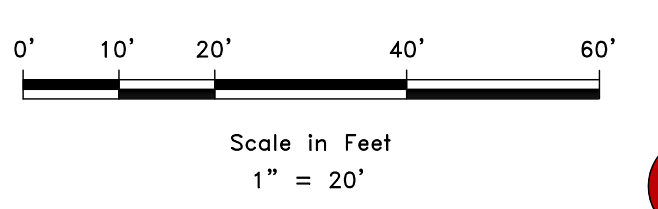
100 YEAR STORM RECOMMENDED MIN. VOLUME DETAINED: 3,298 122

R.O.W.: REQUIRED RETENTION VOLUME—3298 CU.FT.
SWALE PROVIDED RETENTION VOLUME—4115 CU.FT.

We do not allow Retention in the ROW

You will need to pipe it to where it turns

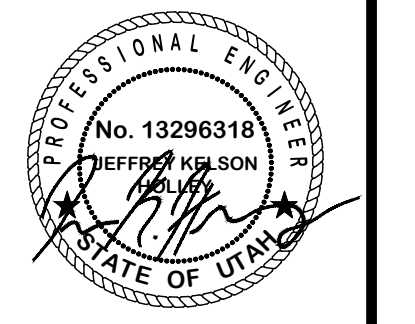
DEVELOPER:
DEVELOPER COMPANY:
ERIC GODFREY



SCALE: 1" = 20'

REVISIONS	DESCRIPTION
DATE	12-23
DESIGN	JKH
DRAWN	JKH
CHECKED	CHECKED

DWG.:

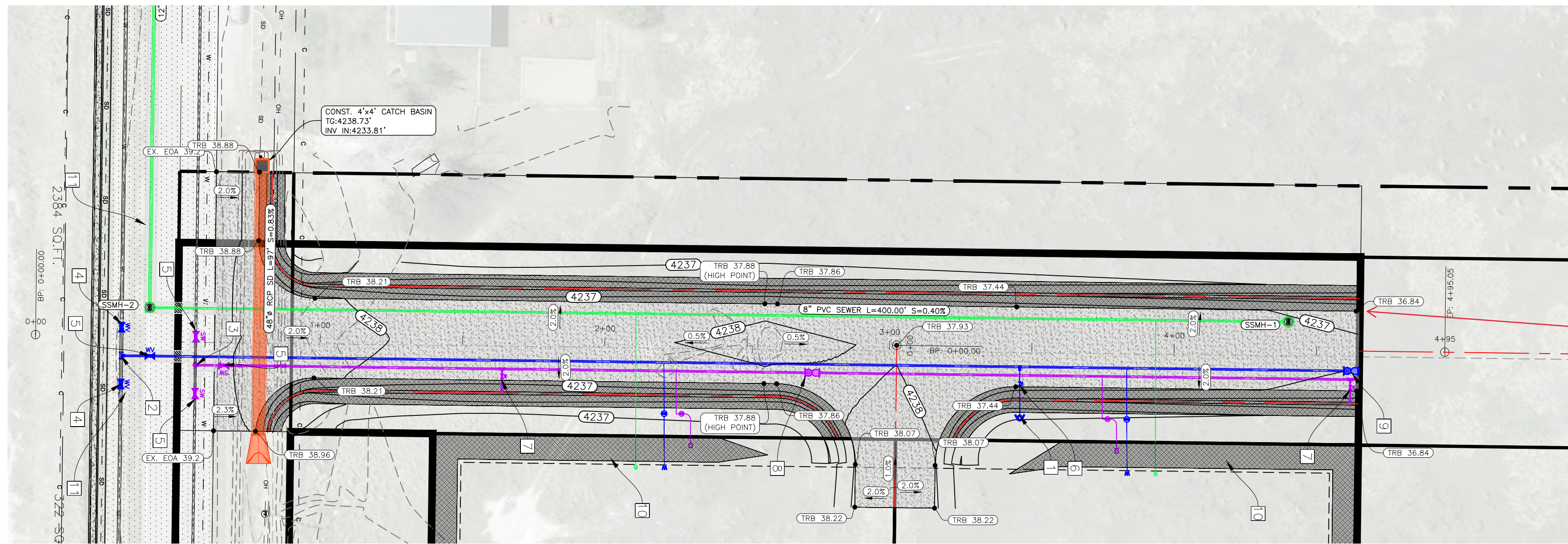


GRADING AND DRAINAGE PLAN
 EAST ESTATES
 3600 W 1800 S
 OGDEN, WEBER, UTAH

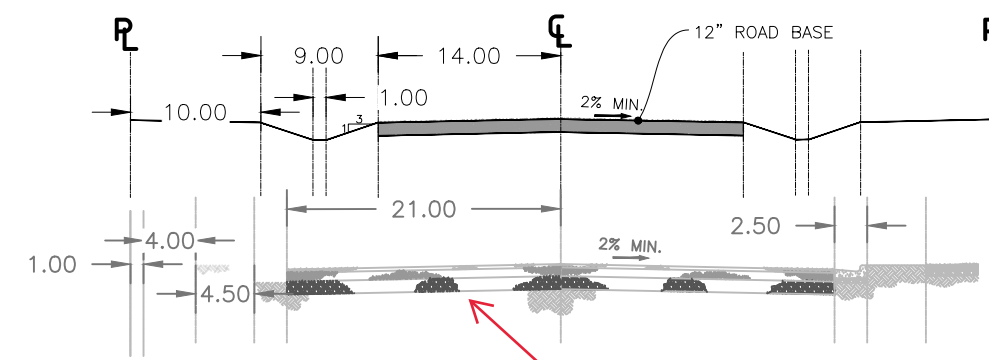
GARDNER ENGINEERING
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 MUNICIPAL - LAND SURVEYING
 1580 W 2100 S, WEST HAVEN, UT 84401
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CE1-02

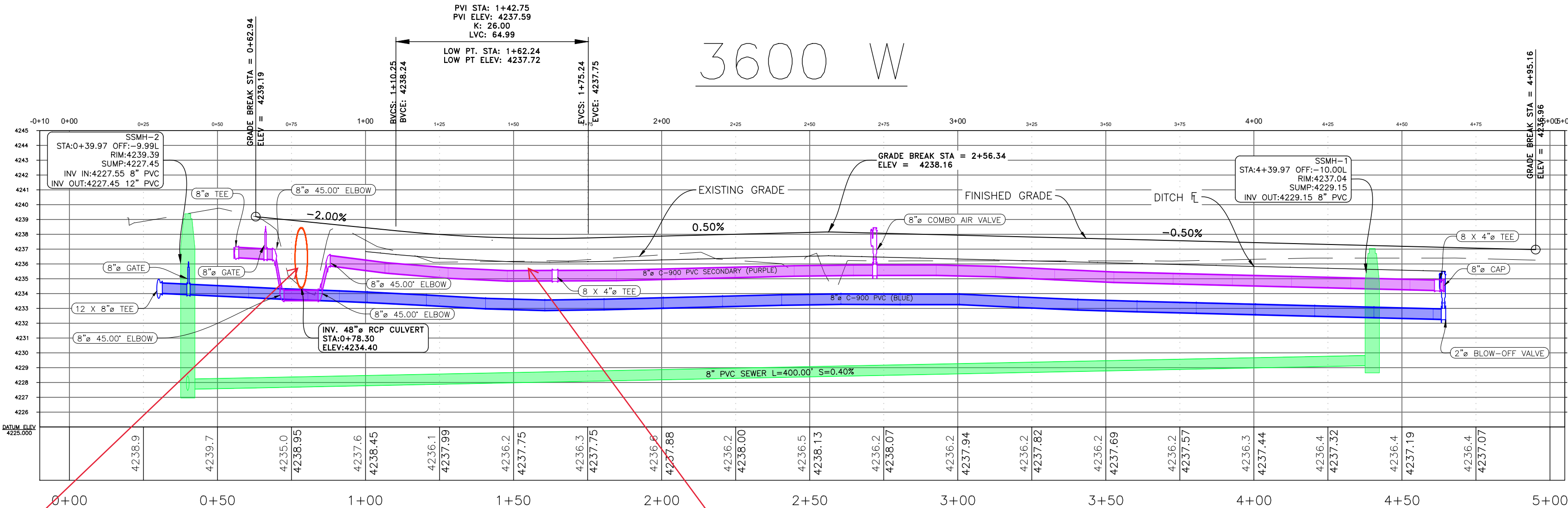


Where does this SW go?



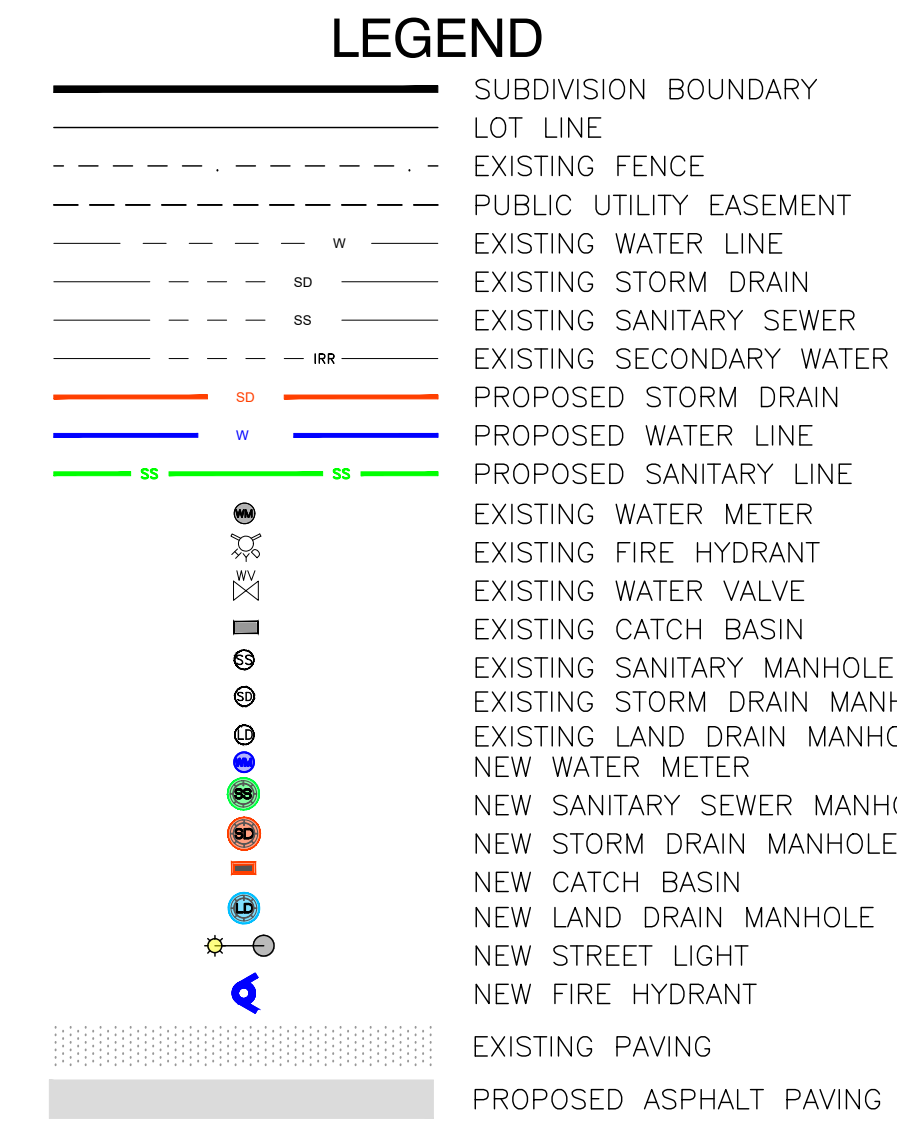
We will need a full road built with 26' of asphalt with shoulders not just road base

- KEYNOTES:
- 1 PROPOSED FIRE HYDRANT
 - 2 8"x4" TEE
 - 3 8" TEE
 - 4 12" GATE VALVE
 - 5 8" GATE VALVE
 - 6 6" GATE VALVE
 - 7 PROPOSED GRAVITY DRAIN PER HOOPER IRRIGATION STANDARDS
 - 8 PROPOSED 8" COMBINATION AIR VALVE
 - 9 PROPOSED BLOW-OFF VALVE
 - 10 PROPOSED STORMWATER RETENTION BERM
 - 11 PROPOSED ASPHALT PATCHING

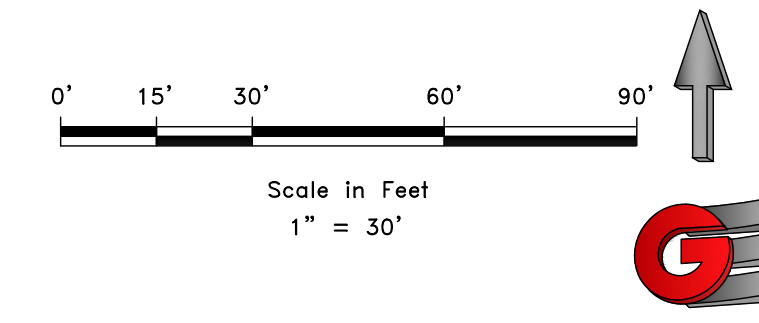


What elevation is this at? Is this existing flowline?

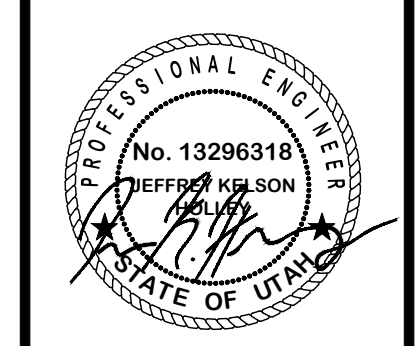
Low spot in the roadway how will water flow out? We do not want a pond in the shoulder



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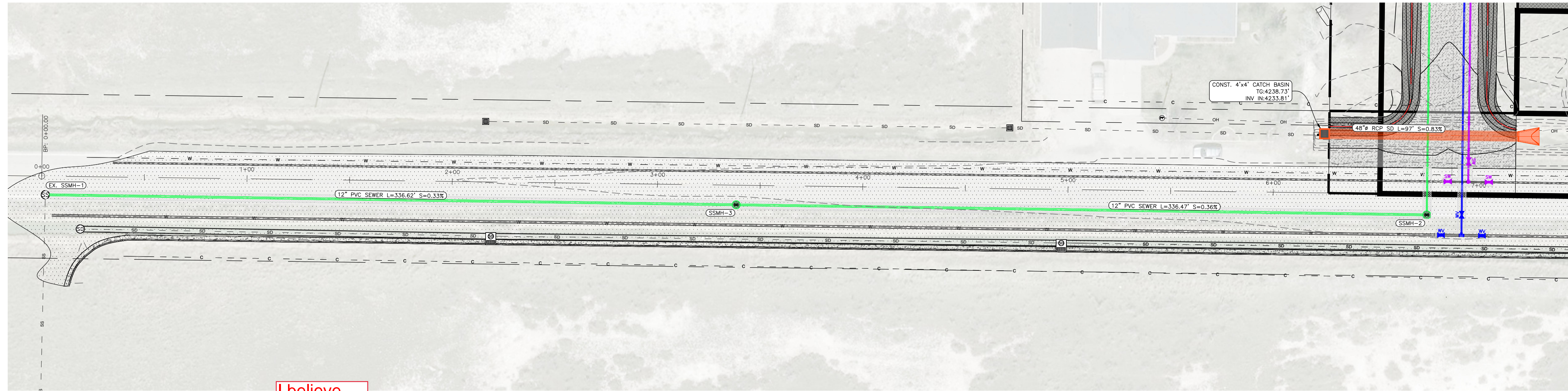
REVISIONS	DATE	DESCRIPTION



3600 W PLAN AND PROFILE
 EAST ESTATES
 3600 W 1800 S
 OGDEN, WEBER, UTAH

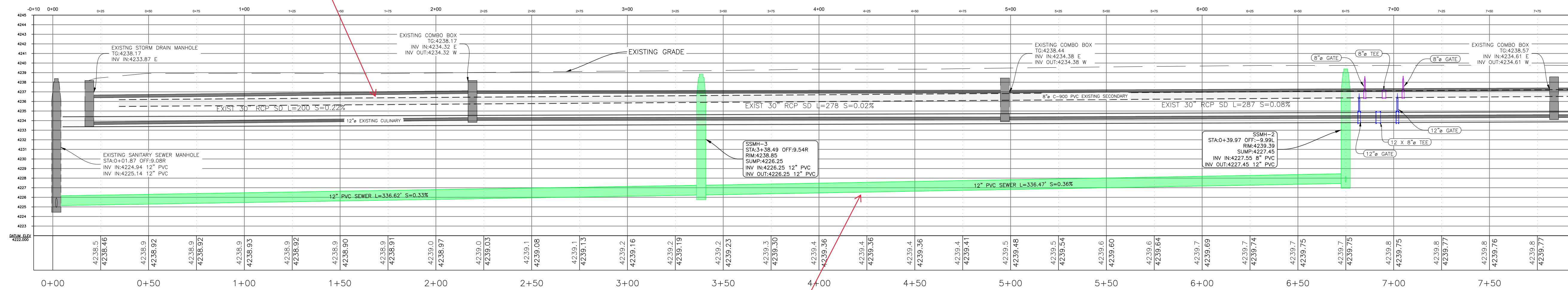
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CE2-01



I believe this is 48" pipe

1800 S

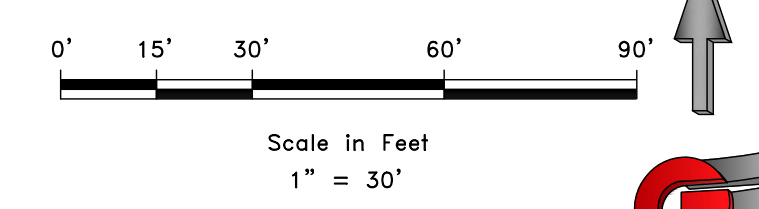


Lay at a 0.2% slope

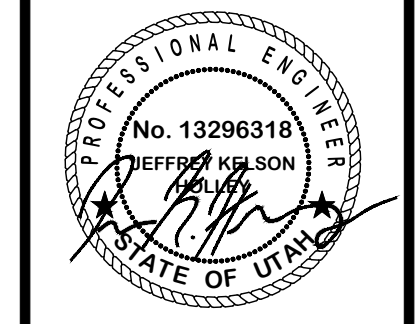
LEGEND

- SUBDIVISION BOUNDARY
- LOT LINE
- EXISTING FENCE
- PUBLIC UTILITY EASEMENT
- EXISTING WATER LINE
- EXISTING STORM DRAIN
- EXISTING SANITARY SEWER
- EXISTING SECONDARY WATER
- PROPOSED STORM DRAIN
- PROPOSED WATER LINE
- PROPOSED SANITARY LINE
- EXISTING WATER METER
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING CATCH BASIN
- EXISTING SANITARY MANHOLE
- EXISTING STORM DRAIN MANHOLE
- EXISTING LAND DRAIN MANHOLE
- NEW WATER METER
- NEW SANITARY SEWER MANHOLE
- NEW STORM DRAIN MANHOLE
- NEW CATCH BASIN
- NEW LAND DRAIN MANHOLE
- NEW STREET LIGHT
- NEW FIRE HYDRANT
- EXISTING PAVING
- PROPOSED ASPHALT PAVING

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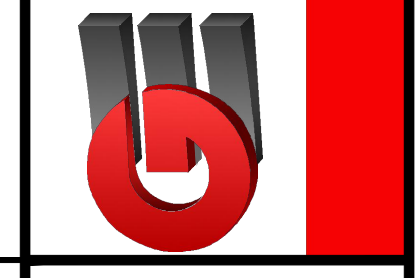


REVISIONS	DATE	DESCRIPTION

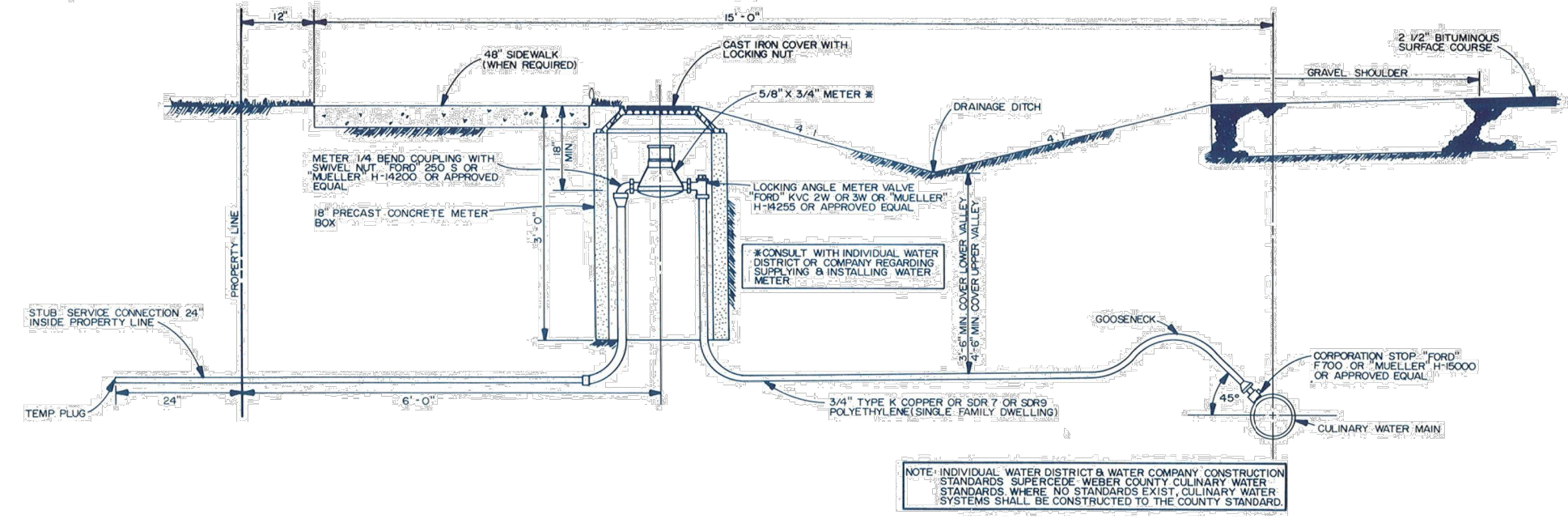


SEWER OUTFALL
 EAST ESTATES
 3600 W 1800 S
 OGDEN, WEBER, UTAH

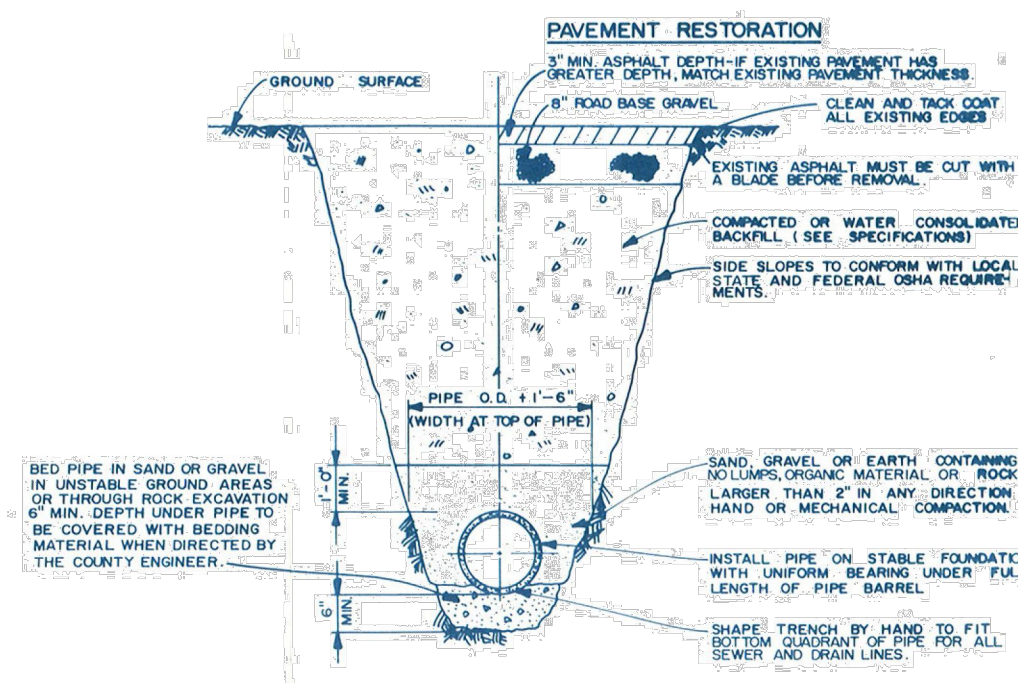
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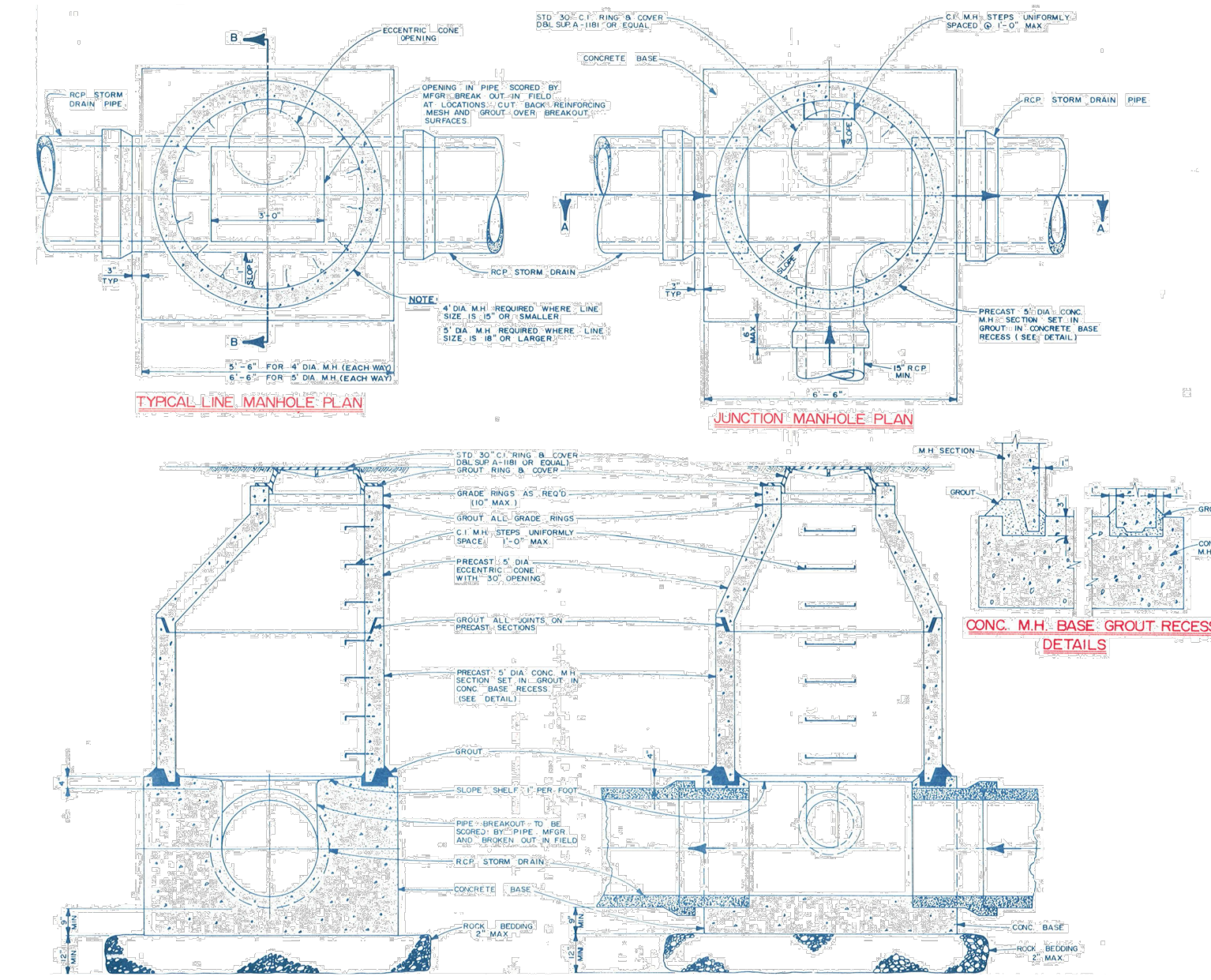
CE2-02



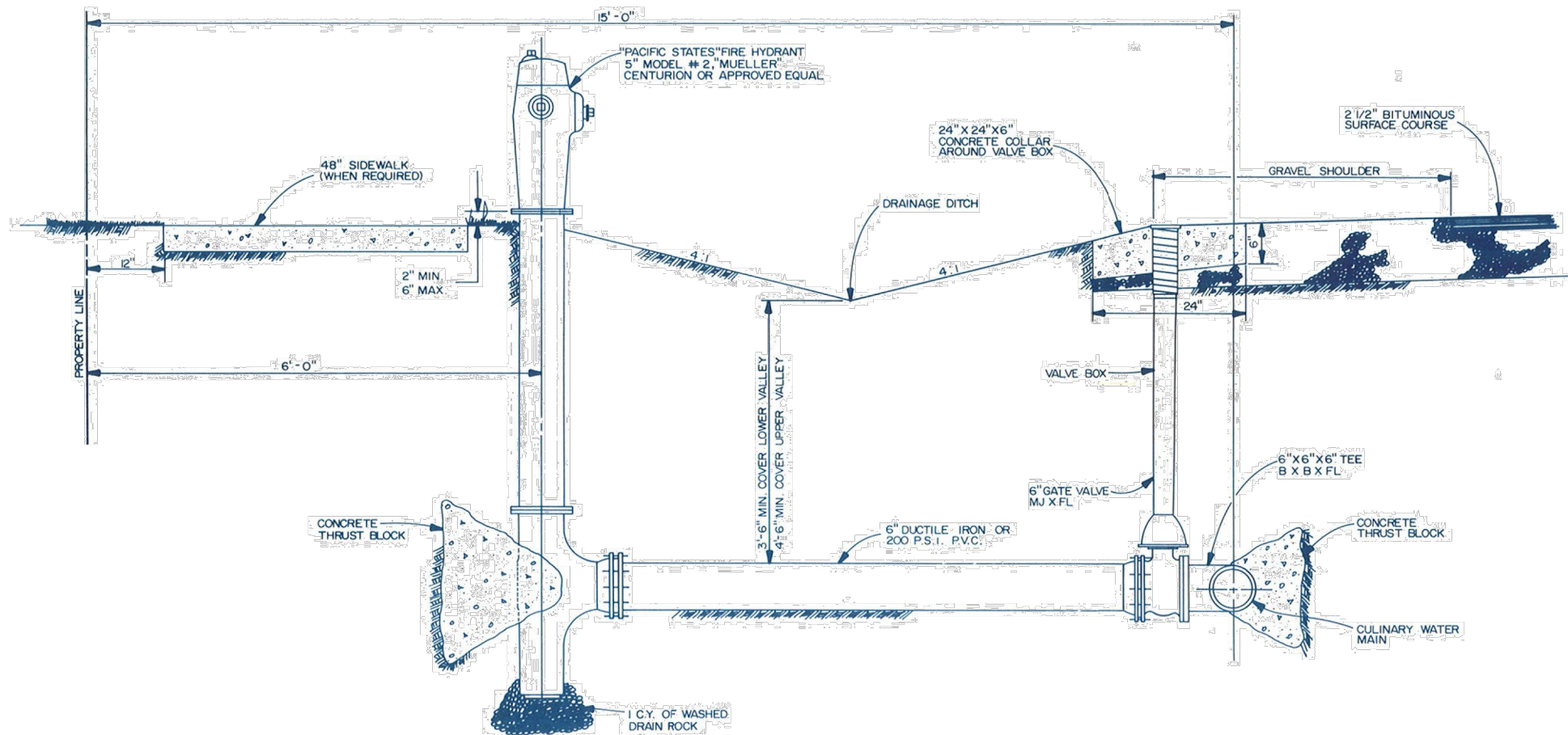
1 TYPICAL RURAL CULINARY SERVICE CONNECTION
Scale: NTS



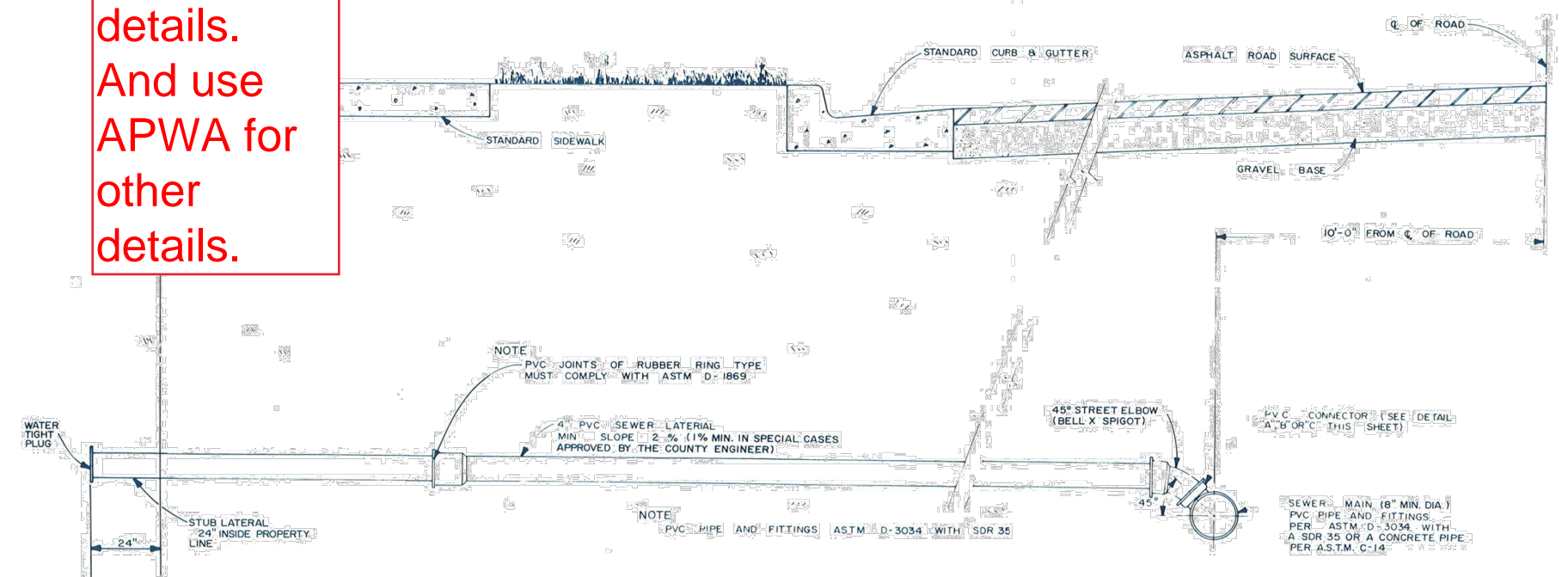
4 TYPICAL TRENCH/PATCHING
Scale: NTS



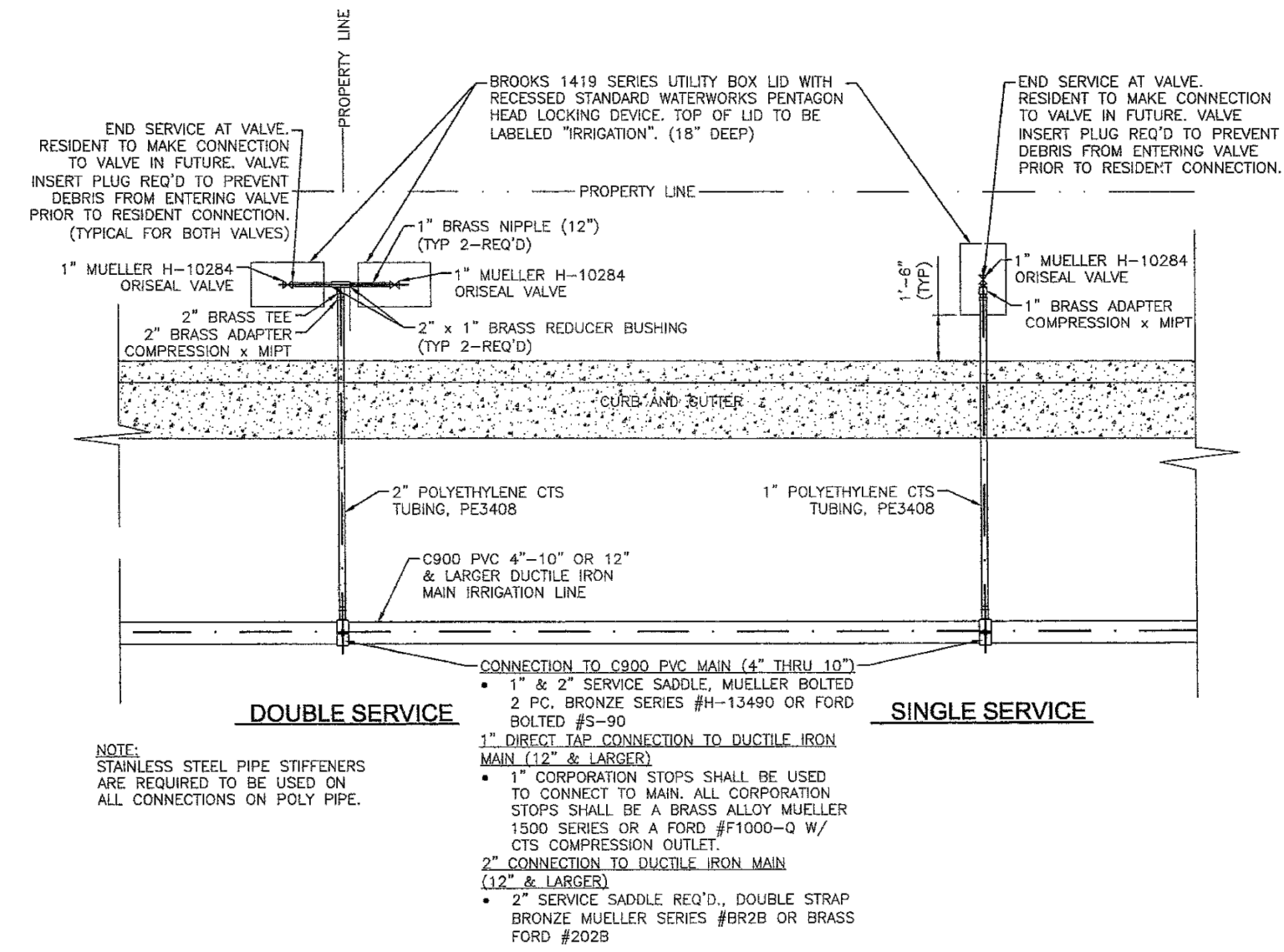
7 TYPICAL STORM DRAIN MANHOLE
Scale: NTS



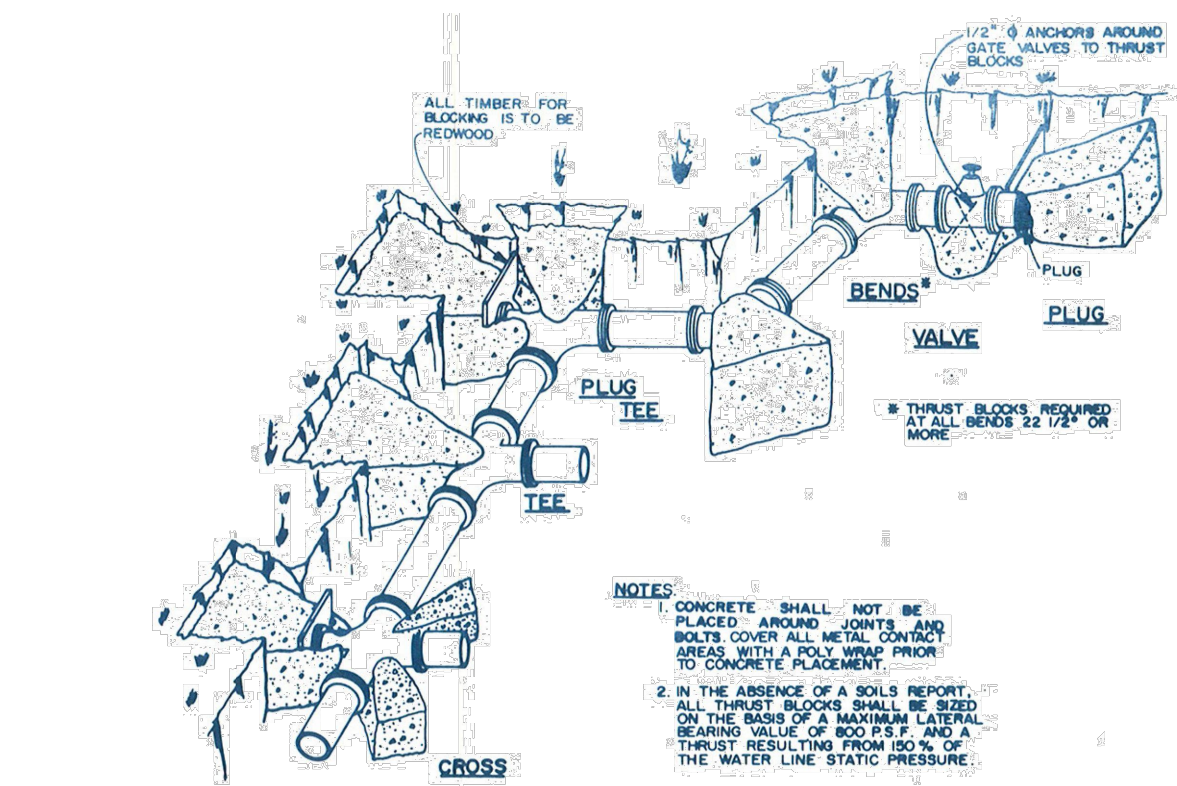
2 TYPICAL RURAL FIRE HYDRANT
Scale: NTS



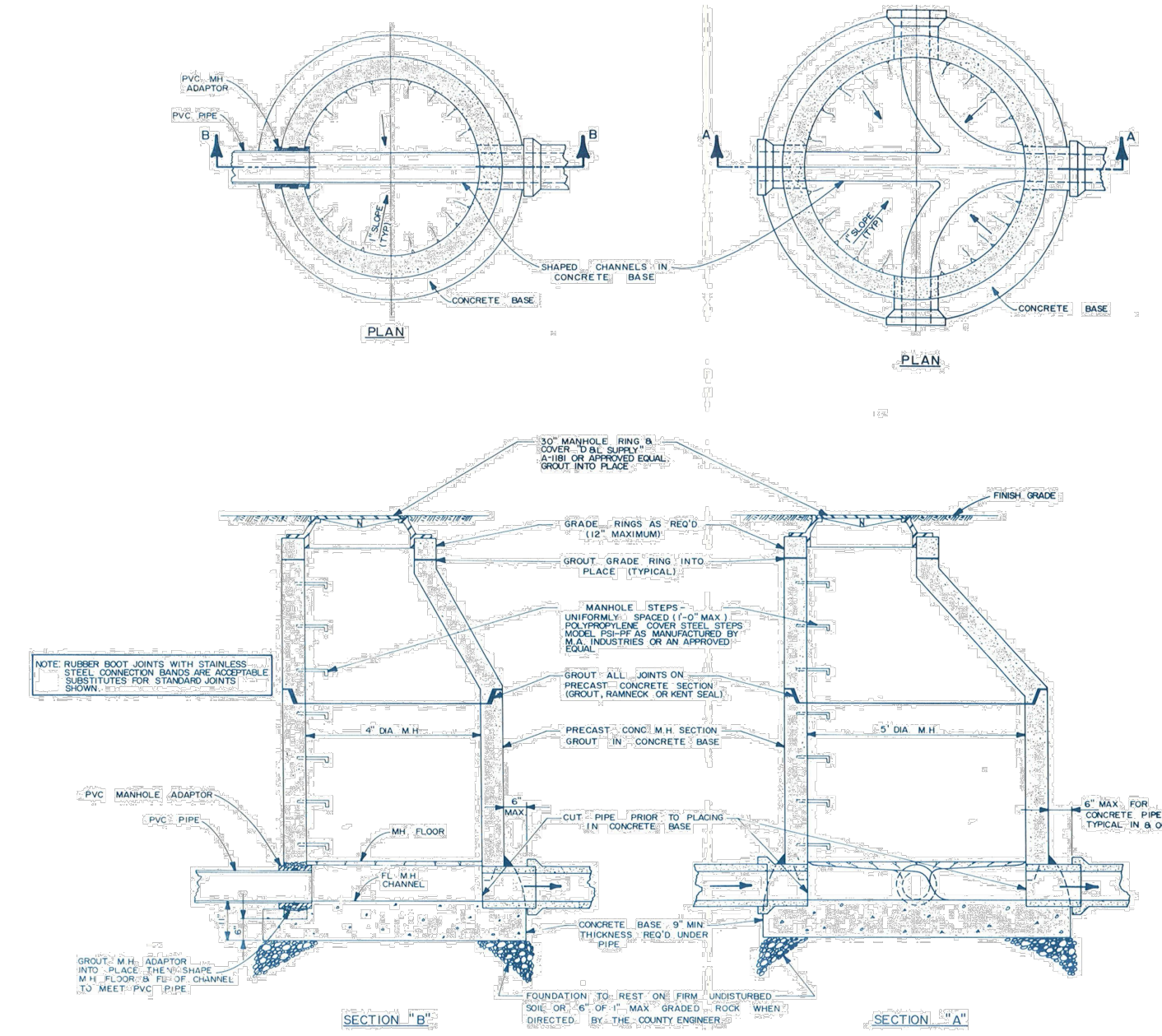
5 TYPICAL SANITARY SEWER SERVICE CONNECTION
Scale: NTS



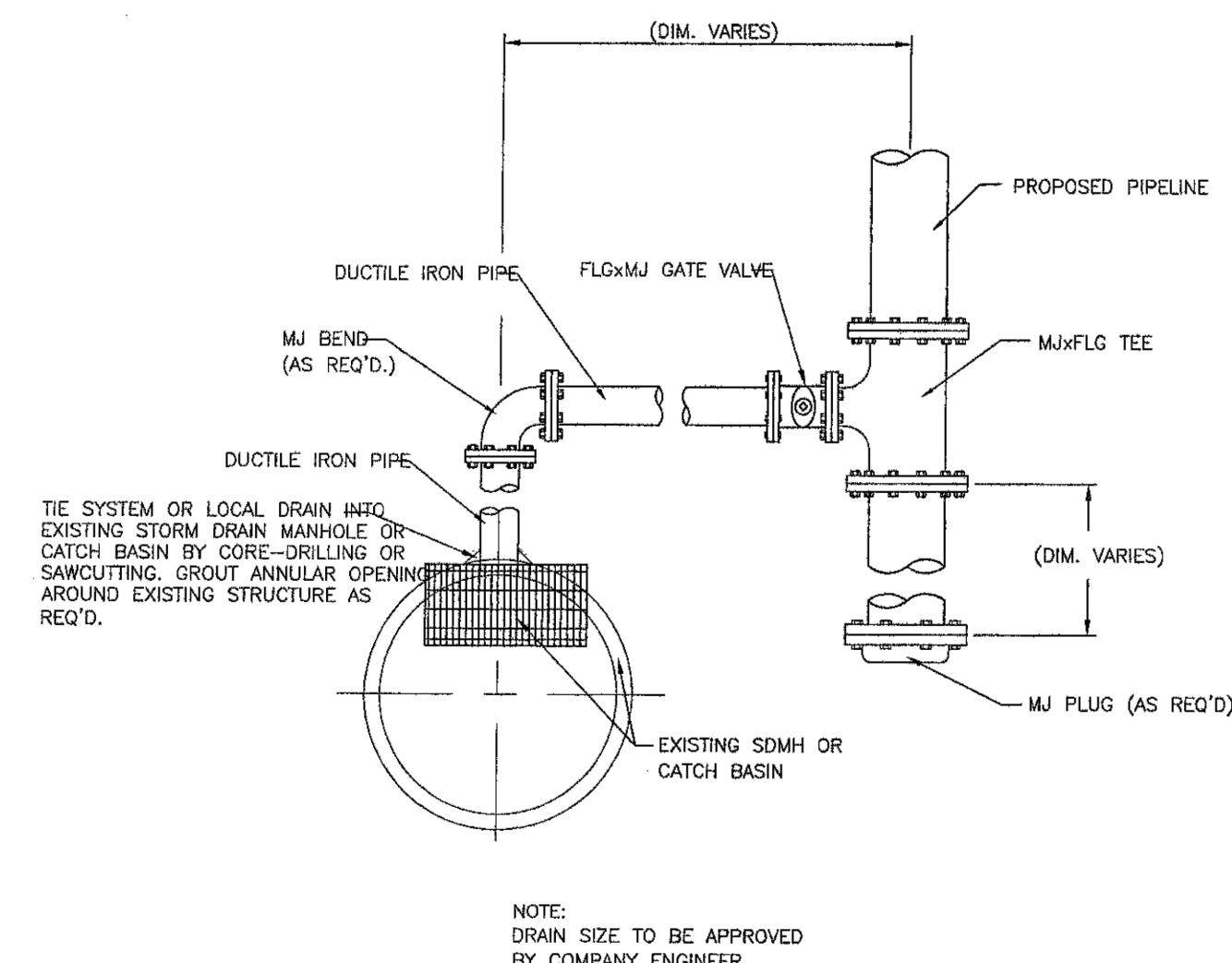
8 TYPICAL SECONDARY SERVICE CONNECTION
Scale: NTS



3 TYPICAL THRUST BLOCKING
Scale: NTS



6 TYPICAL SANITARY SEWER MANHOLE
Scale: NTS



9 TYPICAL SECONDARY WATERLINE DRAIN
Scale: NTS

Make sure this is Taylor West weber and Hooper Irrigation standard details. And use APWA for other details.

SCALE	NTS
DATE	12-23
DESIGN	JKH
DRAWN	JKH
CHECKED	

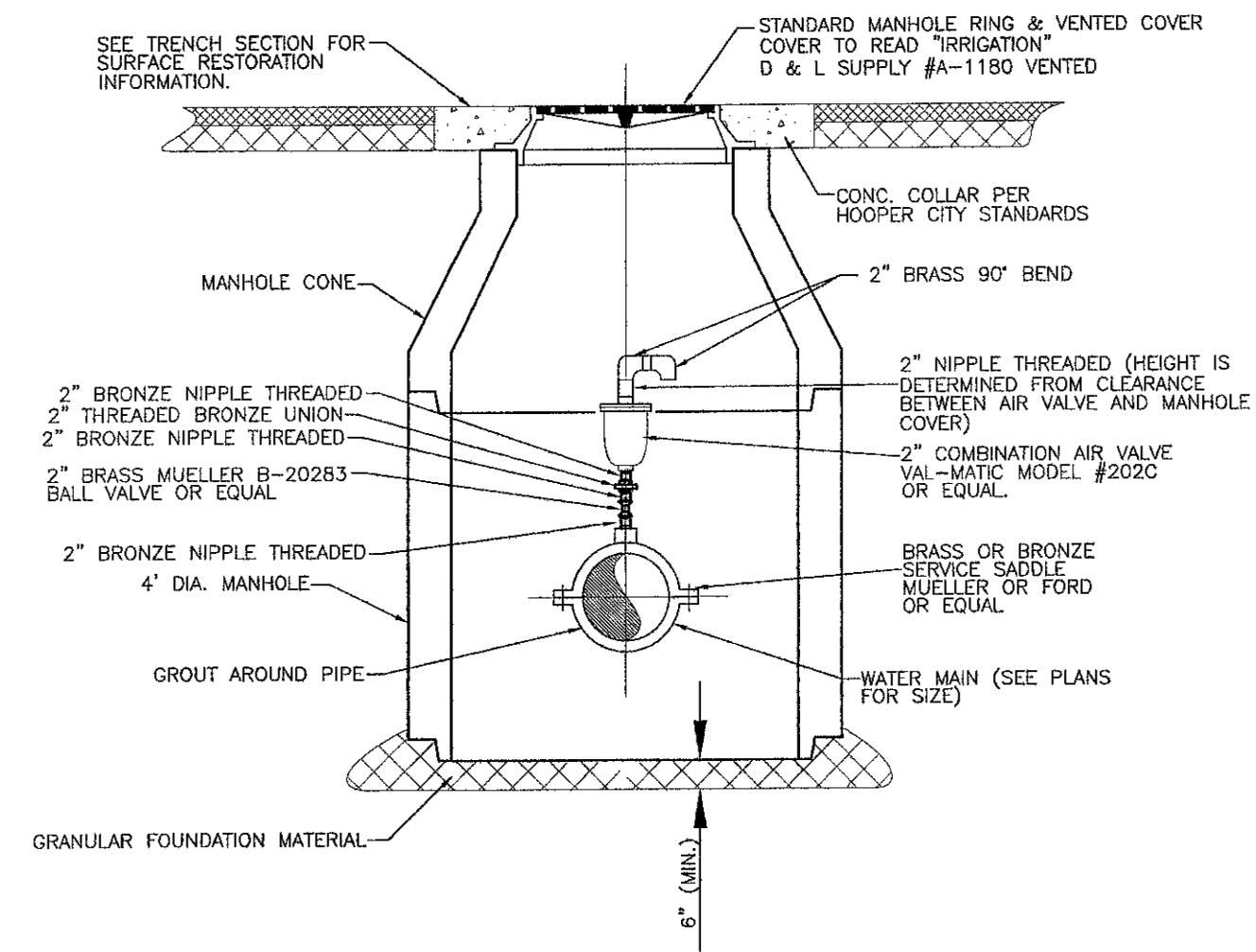
REVISIONS	DESCRIPTION
DATE	

STANDARD DETAILS
EAST ESTATES
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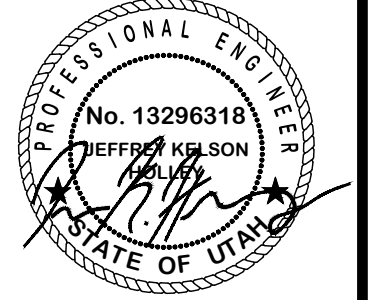
CE5-01

DWG. NO. 13296318
JEFFREY H. JOHNSON
PROFESSIONAL ENGINEER
STATE OF UTAH



10 TYPICAL SECONDARY AIR/VAC VALVE

Scale: NTS



DATE	DESCRIPTION

SCALE	NTS
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CHECKED	CHECKED

STANDARD DETAILS
 EAST ESTATES
 3600 W 1800 S
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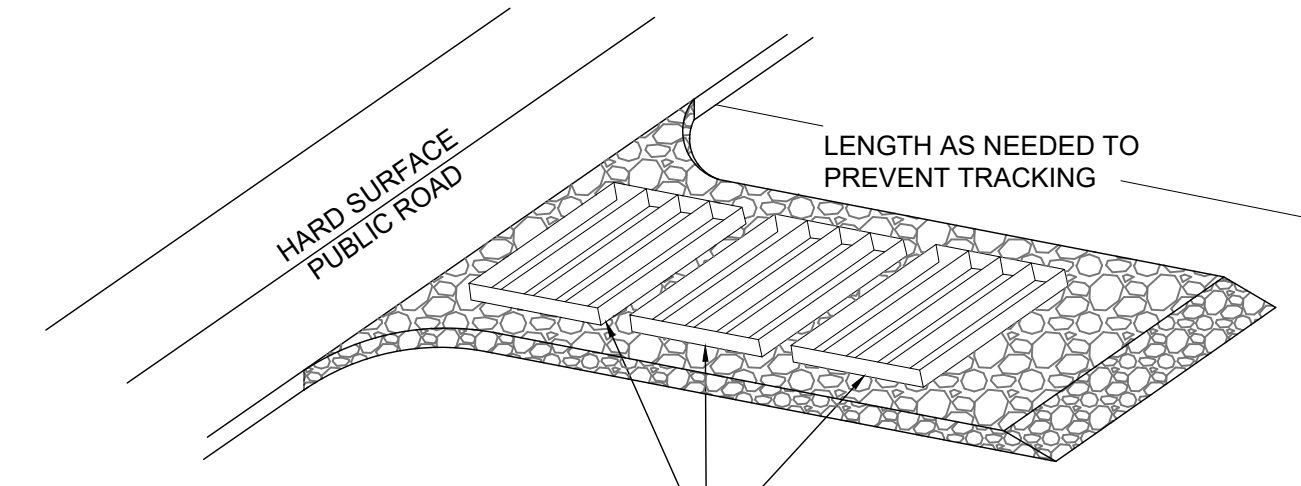
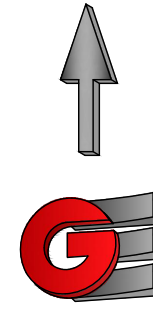
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CE5-02

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.



A SERIES OF STEEL PLATES (3 OR MORE) WITH RUMBLE STRIPS OR MIN. 3" COARSE AGGREGATE.

ENTRANCE STABILIZATION NOTES:

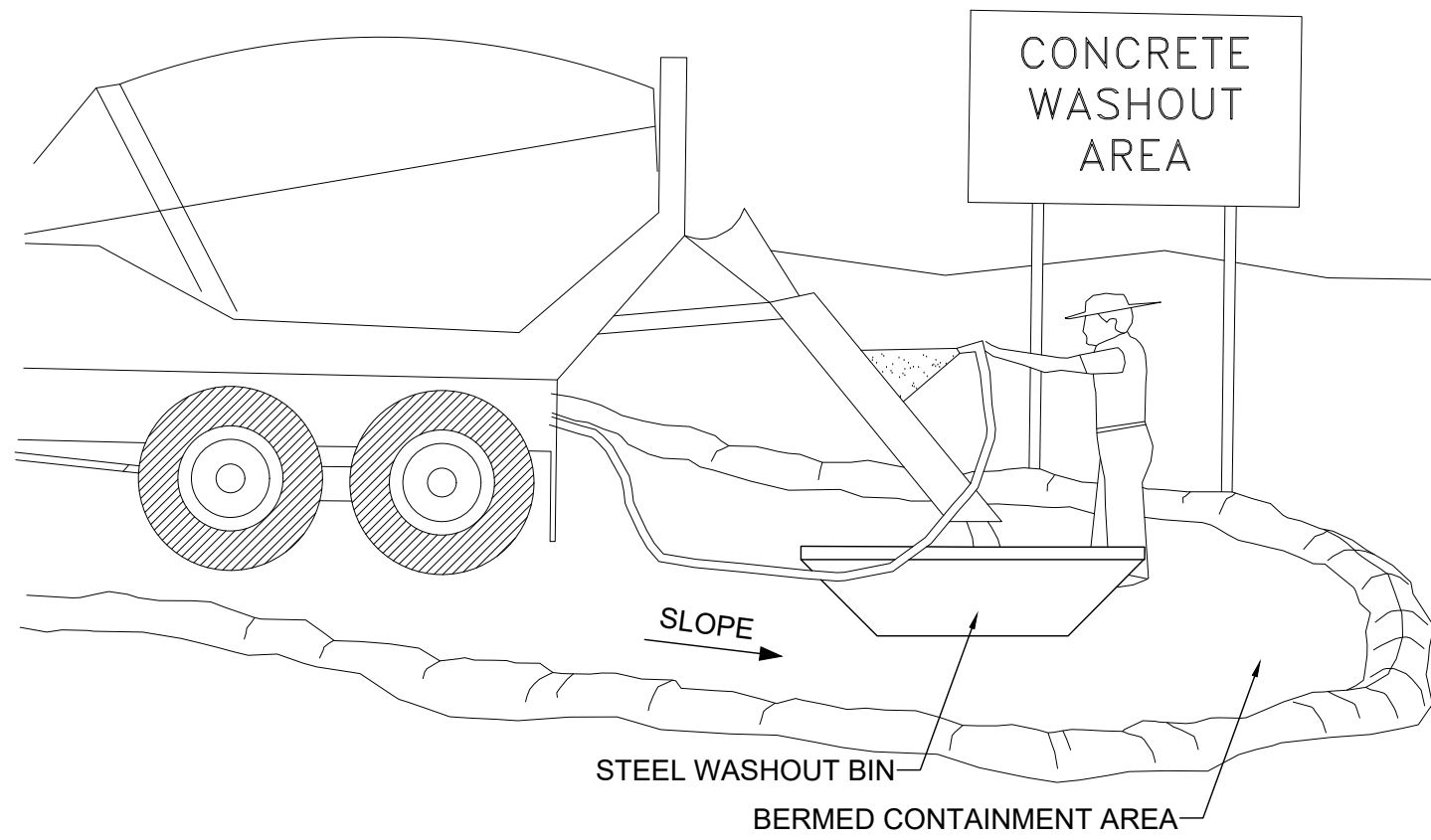
1. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE STORM DRAIN SYSTEMS. DEPOSITIONS MUST BE SWEEP UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER 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.

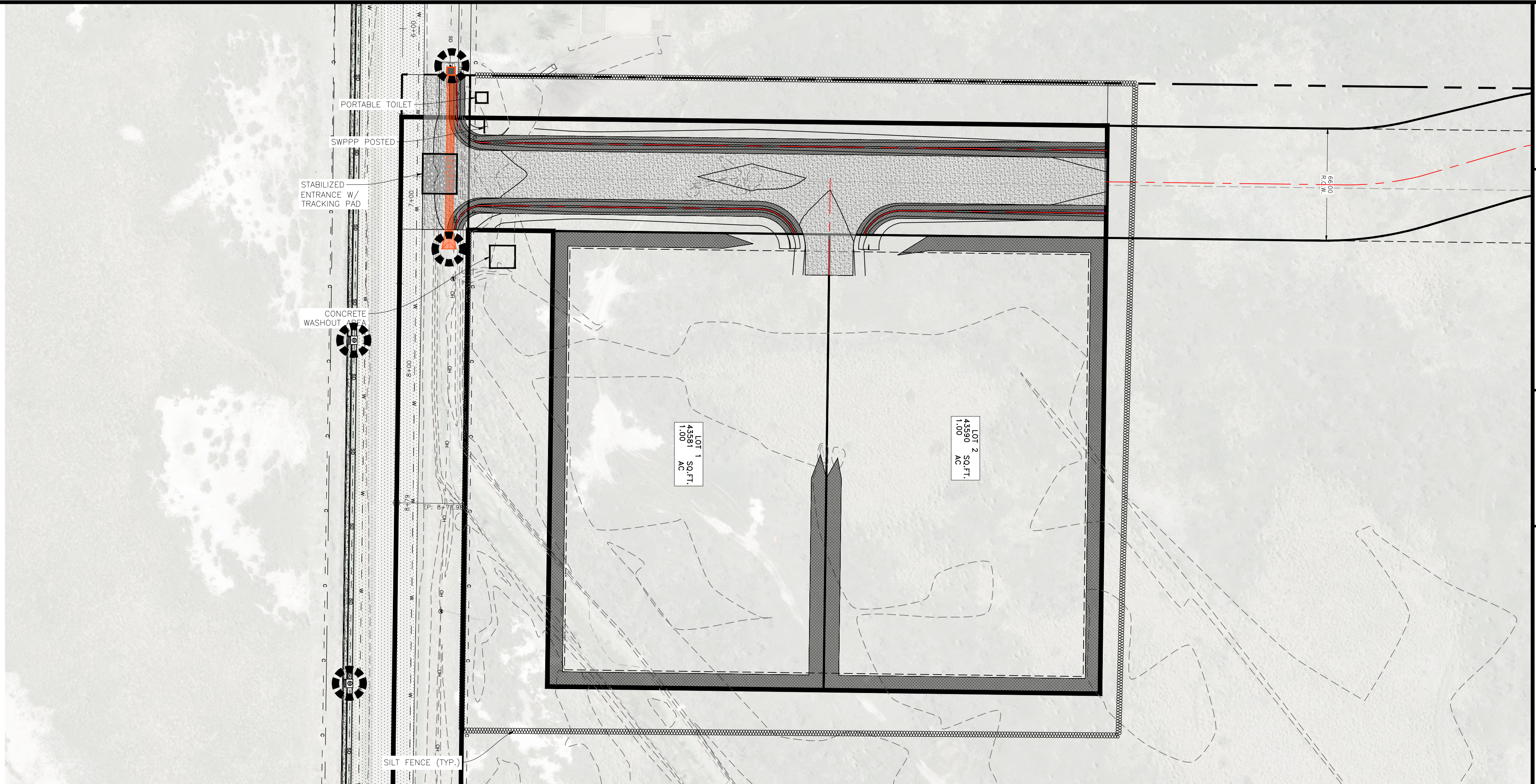
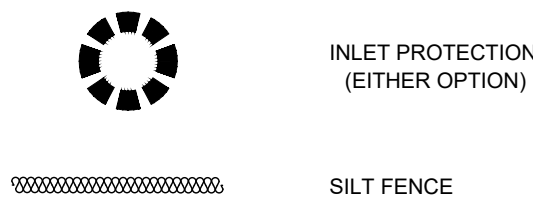
NOTE:

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



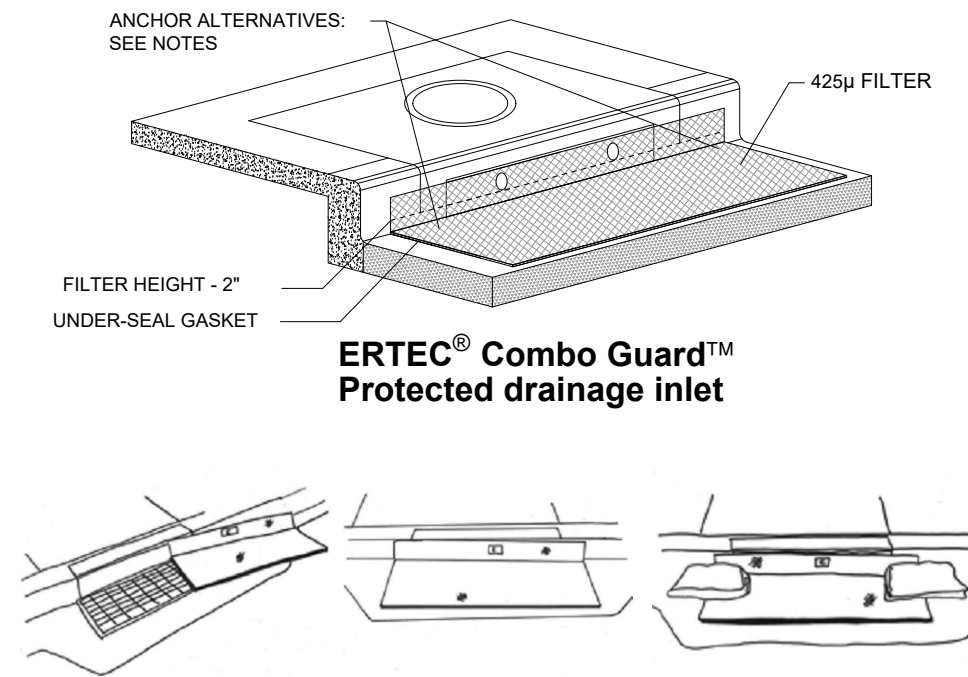
NOTES:

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 SHALL BE VACUUMED OR CONTAINED, DRIED, PICKED UP AND DISPOSED OF PROPERLY.



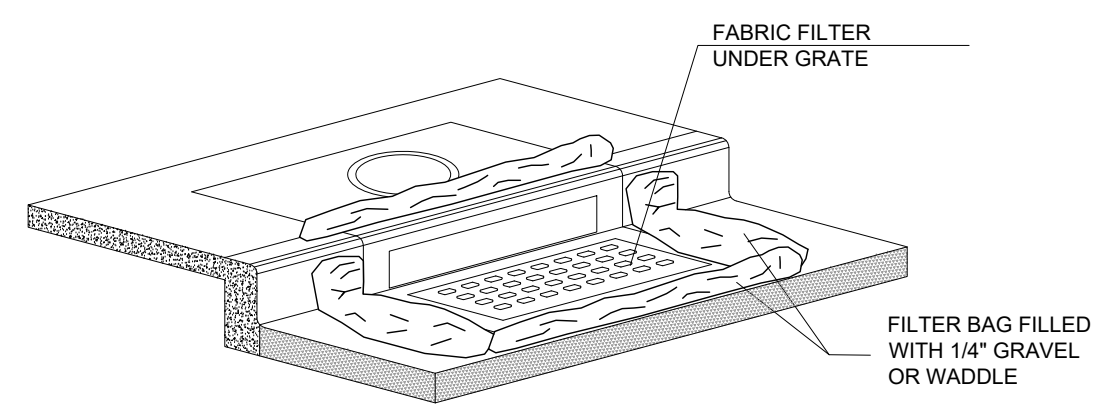
INSTALLATION NOTES

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.



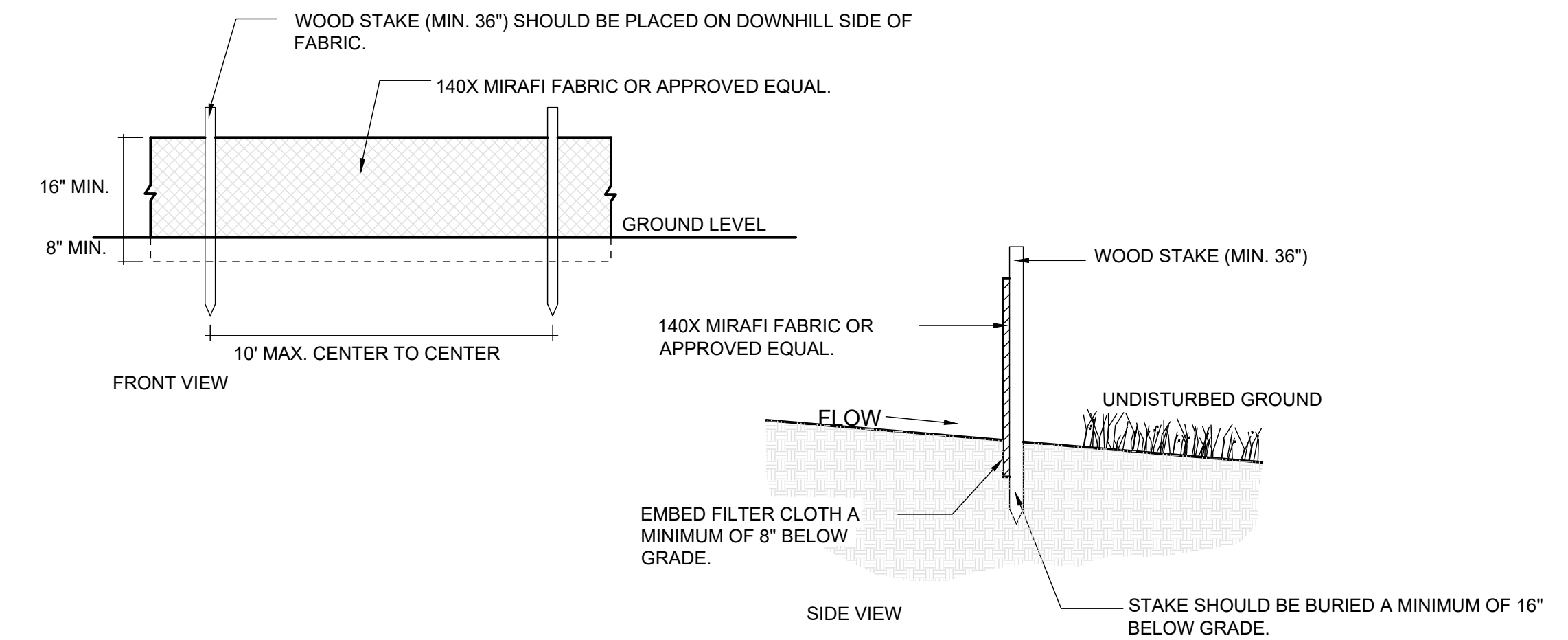
1A INLET PROTECTION - OPTION 1

Scale: NTS



1B INLET PROTECTION - OPTION 2

Scale: NTS

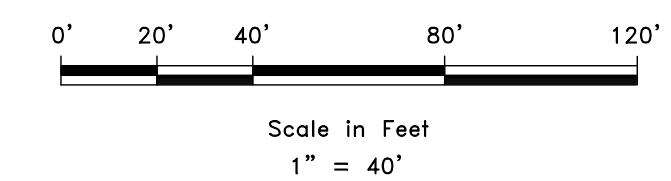


2 SILT FENCE

Scale: NTS

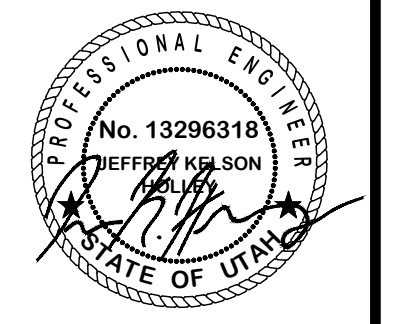
DEVELOPER

DEVELOPER COMPANY
ERIC GODFREY
DEVELOPER ADDRESS
DEVELOPER CITY
801-628-0225



SCALE	1" = 40'
DATE	12-23
DESIGN	JKH
DRAWN	JKH
CHECKED	CHECKED

REVISIONS	DESCRIPTION
DATE	



SWPPP
 EAST ESTATES
 3600 W 1800 S
 OGDEN, WEBER, UTAH

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CE6-01