

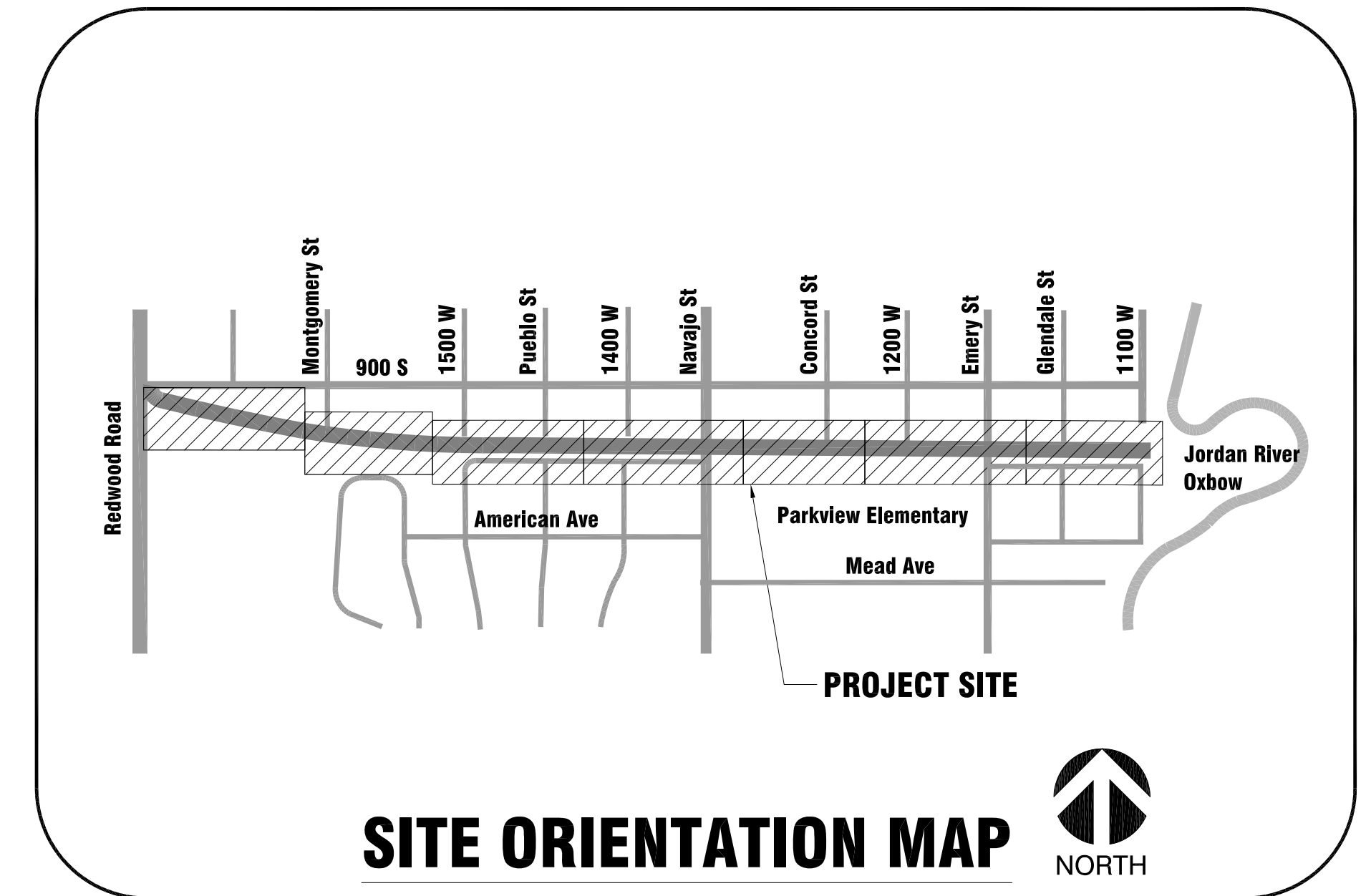
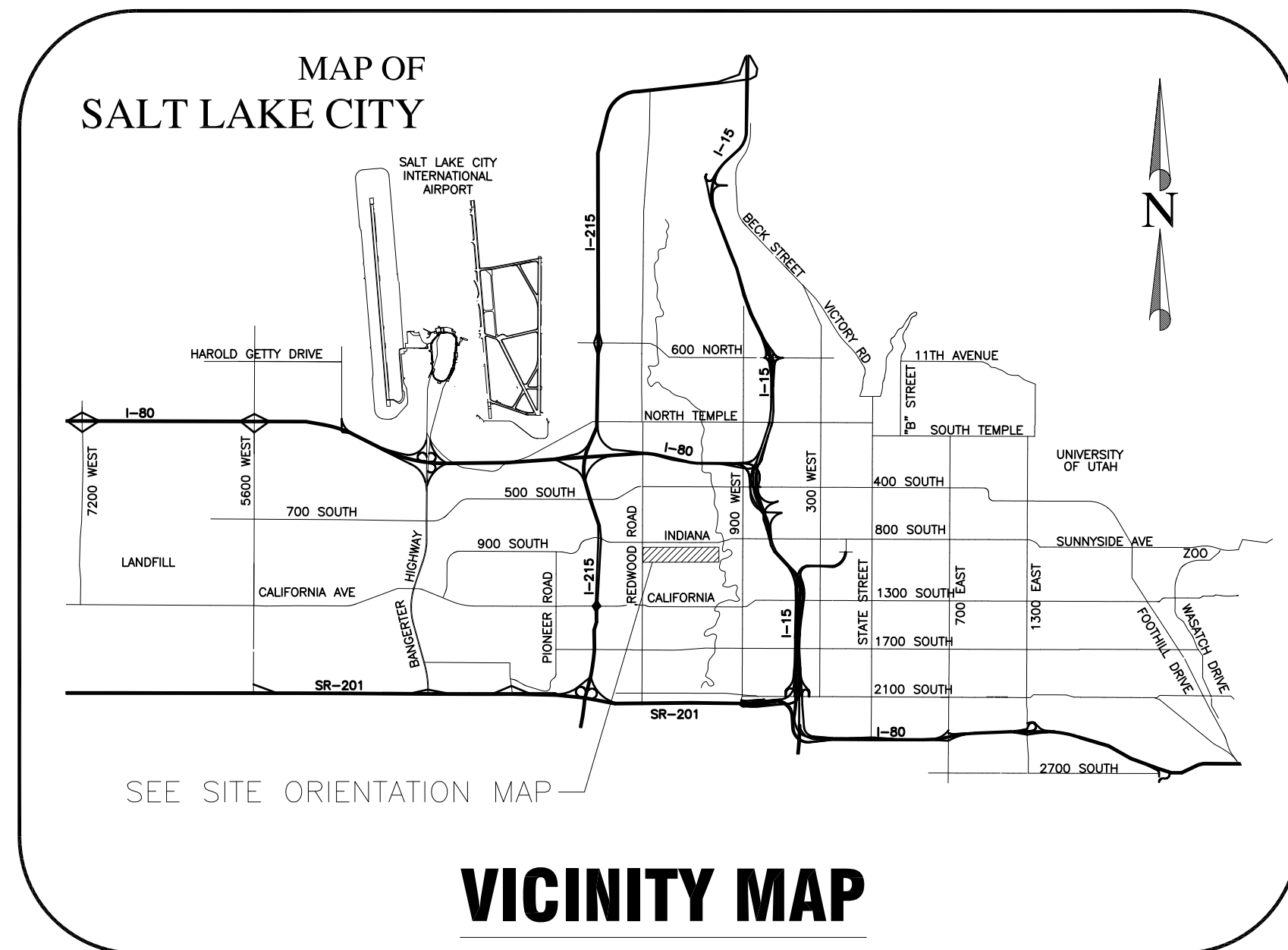
SALT LAKE CITY CORPORATION



9-LINE CORRIDOR IMPROVEMENTS CONSTRUCTION DOCUMENTS

1375 W 1700 S
SALT LAKE CITY, UT 84104

JANUARY 12, 2018
JOB NO. 106068



SHEET SET ASSEMBLY ORDER

SHEET DESIGNATOR	BINDING ORDER	SHEET TITLE	SHEET DESIGNATOR	BINDING ORDER	SHEET TITLE
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GI001	2	LEGEND, SYMBOLS, GENERAL & UTILITY NOTES	LI102	25	IRRIGATION PLAN
DM101	3	DEMOLITION PLANS	LI103	26	IRRIGATION PLAN
DM102	4	DEMOLITION PLANS	LI104	27	IRRIGATION PLAN
DM103	5	DEMOLITION PLANS	LI105	28	IRRIGATION PLAN
CP201	6	SITE & HORIZONTAL CONTROL PLANS	LI106	29	IRRIGATION PLAN
CP202	7	SITE & HORIZONTAL CONTROL PLANS	LI107	30	IRRIGATION PLAN
CP203	8	SITE & HORIZONTAL CONTROL PLANS	LD101	31	SITE DETAILS
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GR302	10	GRADING PLANS	LD103	33	IRRIGATION & PLANTING DETAILS
GR303	11	GRADING PLANS	ES100	34	ELECTRICAL SYMBOLS & OVERALL CONTEXT PLAN
EC401	12	EROSION CONTROL PLANS	ES101	35	ELECTRICAL PLAN
DT501	13	CIVIL DETAILS	ES102	36	ELECTRICAL PLAN
DT502	14	CIVIL DETAILS	ES103	37	ELECTRICAL PLAN
LS100	15	OVERALL LAYOUT & MATERIALS PLAN	ES104	38	ELECTRICAL PLAN
LS101	16	LAYOUT & MATERIALS PLAN	ES105	39	ELECTRICAL PLAN
LS102	17	LAYOUT & MATERIALS PLAN	ES106	40	ELECTRICAL PLAN
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LS104	19	LAYOUT & MATERIALS PLAN	ES501	42	ELECTRICAL DETAILS
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LS106	21	LAYOUT & MATERIALS PLAN			
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CITY OFFICIALS

MAYOR JACKIE BISKUPSKI

CITY COUNCIL DIST. 1 JAMES ROGERS

DIST. 2 ANDREW JOHNSTON

DIST. 3 CHRIS WHARTON

DIST. 4 DEREK KITCHEN

DIST. 5 ERIN MENDENHALL

DIST. 6 CHARLIE LUKE

DIST. 7 AMY FOWLER

C.A.N. DIRECTOR MIKE REBERG

CITY ENGINEER JEFF SNELLING, S.E.

DESIGNER



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9-LINE CORRIDOR IMPROVEMENTS
CONSTRUCTION DOCUMENTS

JOB NO. 106068

ACTING CITY ENGINEER DAWN WAGNER, P.E. _____ DATE _____	CITY PROJECT MANAGER SEAN FYFE, AIA _____ DATE _____	PARKS & PUBLIC LANDS DIRECTOR KRISTIN RIKER _____ DATE _____	PROJECT DESIGNER IBI GROUP DAVID NICHOLAS _____ DATE _____	PARKS PROGRAMS MANAGER TROY BAKER _____ DATE _____
URBAN FORESTER TONY GLIOT _____ DATE _____				

GENERAL NOTES

- ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: GOVERNING UTILITY MUNICIPALITY, GOVERNING CITY OR COUNTY (IF UN-INCORPORATED), INDIVIDUAL PRODUCT MANUFACTURERS, THE DESIGN ENGINEER, AND AMERICAN PUBLIC WORKS ASSOCIATION (APWA). THE ORDER LISTED ABOVE IS ARRANGED BY SENIORITY. IF A CONSTRUCTION PRACTICE IS NOT SPECIFIED BY ANY OF THE LISTED SOURCES, CONTRACTOR MUST CONTACT DESIGN ENGINEER FOR DIRECTION.
- CONTRACTOR TO STRICTLY FOLLOW GEOTECHNICAL RECOMMENDATIONS FOR THIS PROJECT. ALL GRADING INCLUDING BUT NOT LIMITED TO CUT, FILL, COMPACTION, ASPHALT SECTION, SUBBASE, TRENCH EXCAVATION/BACKFILL, SITE GRUBBING, RETAINING WALLS AND FOOTINGS MUST BE COORDINATED DIRECTLY WITH THE PROJECT GEOTECHNICAL ENGINEER.
- TRAFFIC CONTROL, STRIPING & SIGNAGE TO CONFORM TO CURRENT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
- CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION.
- AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST RECENT ADOPTED EDITION OF ADA ACCESSIBILITY GUIDELINES.
- PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED THOROUGHLY REVIEWED PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
- ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE APPROPRIATE, CITY, COUNTY OR STATE AGENCY CONTROLLING THE ROAD, INCLUDING OBTAINING REQUIRED INSPECTIONS.
- ALL DIMENSIONS, GRADES & UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES.
- CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP ANY QUESTIONS BEFOREHAND.
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH BY THE GEOTECHNICAL ENGINEER.
- CATCH SLOPES SHALL BE GRADED AS SPECIFIED ON GRADING PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLAGGING, CAUTION SIGNS, LIGHTS, BARRICADES, FLAGMEN, AND ALL OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
- CONTRACTOR SHALL, AT THE TIME OF BIDDING AND THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE OF UTAH AND SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT BID AND TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO BIDDING TO SATISFY HIMSELF BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS HE MAY PREFER OF THE LOCATION OF THE PROPOSED WORK AND OF THE ACTUAL CONDITIONS OF AND AT THE SITE OF WORK. IF, DURING THE COURSE OF HIS EXAMINATION, A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO HIM TO BE IN CONFLICT WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, HE SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING HIS BID. SUBMISSION OF A BID BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGMENT THAT, IF AWARDED THE CONTRACT, HE HAS RELIED AND IS RELYING ON HIS OWN EXAMINATION OF (1) THE SITE OF THE WORK, (2) ACCESS TO THE SITE, AND (3) ALL OTHER DATA AND MATTERS REQUISITE TO THE FULFILLMENT OF THE WORK AND ON HIS OWN KNOWLEDGE OF EXISTING FACILITIES ON AND IN THE VICINITY OF THE SITE OF THE WORK TO BE CONSTRUCTED UNDER THIS CONTRACT. THE INFORMATION PROVIDED BY THE ENGINEER IS NOT INTENDED TO BE A SUBSTITUTE FOR, OR A SUPPLEMENT TO, THE INDEPENDENT VERIFICATION BY THE CONTRACTOR TO THE EXTENT SUCH INDEPENDENT INVESTIGATION OF SITE CONDITIONS IS DEEMED NECESSARY OR DESIRABLE BY THE CONTRACTOR. CONTRACTOR SHALL ACKNOWLEDGE THAT HE HAS NOT RELIED SOLELY UPON OWNER OR ENGINEER-FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND SUBMITTING HIS BID.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER, ENGINEER, AND/OR GOVERNING AGENCIES.
- CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, CONTROL POINTS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE.
- CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND 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 THE ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS. ALL TESTING AND INSPECTION SHALL BE PAID FOR BY THE OWNER; ALL RE-TESTING AND/OR RE-INSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.
- IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND/OR REPLACEMENT. THERE WILL BE NO EXTRA COST DUE TO THE CONTRACTOR FOR REPLACING OR REPAIRING EXISTING IMPROVEMENTS.
- WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.

GENERAL NOTES CONT.

- CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL STRUCTURES AND OTHER FACILITIES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
- WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
- CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PROJECT PLANS AND SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING UPON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR. PRICES PROVIDED WITHIN THE CONTRACT DOCUMENTS SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THE TRUE INTENT AND PURPOSE OF THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS IN THE NATURE, EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE ARE CERTAIN PECULIAR AND INHERENT CONDITIONS EXISTENT IN THE CONSTRUCTION OF THE PARTICULAR FACILITIES WHICH MAY CREATE, DURING THE CONSTRUCTION PROGRAM, UNUSUAL OR UNSAFE CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRIPING AND/OR PAVEMENT MARKINGS NECESSARY TO THE EXISTING STRIPING INTO FUTURE STRIPING. METHOD OF REMOVAL SHALL BE BY GRINDING OR SANDBLASTING.
- CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 4' OR MORE. FOR EXCAVATIONS 4 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH INDUSTRIAL COMMISSION OF UTAH SAFETY ORDERS SECTION 68 - EXCAVATIONS, AND SECTION 69 - TRENCHES, ALONG WITH ANY LOCAL CODES OR ORDINANCES.
- ALL EXISTING GATES AND FENCES TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. PROTECT ALL GATES AND FENCES FROM DAMAGE.
- UNCLASSIFIED EXCAVATION SHALL BE PROPERLY DISPOSED OF PER GOVERNMENT REGULATIONS.
- UNLESS NOTED OTHERWISE IN THE PLANS & CONSTRUCTION DOCUMENTS. USE APWA AND CITY DETAIL SPECIFICATIONS.
- PROTECT RECENT/ NEW ASPHALT STRIPING WHERE POSSIBLE. CONTRACTOR TO INVENTORY AND REPLACE ALL EXISTING STRIPING WITHIN DEMO OR ROTO MILL LIMITS AND INSTALL NEW STRIPING TO MATCH THE EXISTING CONDITION. CONTRACTOR TO PROVIDE 5 DAY MINIMUM NOTICE TO NOORM WISE WITH SALT LAKE CITY, 801-535-7171. TO FIELD REVIEW STRIPING PRIOR TO PLACEMENT OF NEW STRIPING.
- THE IMPROVEMENTS SHOULD BE CONSTRUCTED BASED ON SURVEY OF EXISTING CONDITION USED AS BASIS OF DESIGN. CONTRACTOR TO SUE STANDARD RFI PROCESS IF HE DISCOVERS A DISCREPANCY IN THE ACTUAL CONDITION OR NOT AS SURVEYED.

UTILITY NOTES

- CONTRACTOR SHALL COORDINATE LOCATION OF NEW UTILITIES WITH THE APPROPRIATE UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO: TELEPHONE SERVICE, GAS SERVICE, CABLE, POWER, INTERNET.
- EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING A COMBINATION OF ON-SITE SURVEYS. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY BLUE STAKES AT 1-800-662-4111 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK. THE CONTRACTOR SHALL RECORD THE BLUE STAKES ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT.
- CONTRACTOR SHALL POT HOLE ALL UTILITIES TO DETERMINE IF CONFLICTS EXIST PRIOR TO BEGINNING ANY EXCAVATION. NOTIFY ENGINEER OF ANY CONFLICTS. CONTRACTOR SHALL VERIFY LOCATION AND INVERTS OF EXISTING UTILITIES TO WHICH NEW UTILITIES WILL BE CONNECTED. PRIOR TO COMMENCING ANY EXCAVATION WORK THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE REQUIRED PROCEDURES.
- CARE SHOULD BE TAKEN IN ALL EXCAVATIONS DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT HIS EXPENSE.
- ALL VALVES AND MANHOLE COVERS SHALL BE RAISED OR LOWERED TO MEET FINISHED GRADE.
- CONTRACTOR SHALL CUT PIPES OFF FLUSH WITH THE INSIDE WALL OF THE BOX OR MANHOLE.
- CONTRACTOR SHALL GROUT AT CONNECTION OF PIPE TO BOX WITH NON-SHRINKING GROUT, INCLUDING PIPE JOINTS LEFT BY CUTTING PROCESS, TO A SMOOTH FINISH.
- CONTRACTOR SHALL GROUT WITH NON-SHRINK GROUT BETWEEN GRADE RINGS AND BETWEEN BOTTOM OF INLET LID FRAME AND TOP OF CONCRETE BOX.
- SILT AND DEBRIS IS TO BE CLEANED OUT OF ALL STORM DRAIN BOXES. CATCH BASINS ARE TO BE MAINTAINED IN A CLEANED CONDITION AS NEEDED UNTIL AFTER THE FINAL BOND RELEASE INSPECTION.
- CONTRACTOR SHALL CLEAN ASPHALT, TAR OR OTHER ADHESIVES OFF OF ALL MANHOLE LIDS AND INLET GRATINGS TO ALLOW ACCESS.
- EACH TRENCH SHALL BE EXCAVATED SO THAT THE PIPE CAN BE LAID TO THE ALIGNMENT AND GRADE AS REQUIRED. THE TRENCH WALL SHALL BE SO BRACED THAT THE WORKMEN MAY WORK SAFELY AND EFFICIENTLY. ALL TRENCHES SHALL BE DRAINED SO THE PIPE LAYING MAY TAKE PLACE IN DEWATERED CONDITIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COST OF DEWATERING AND NO COST CHANGE WILL BE PROVIDED.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES AMPLE MEANS AND DEVICES WITH WHICH TO REMOVE PROMPTLY AND TO PROPERLY DISPOSE OF ALL WATER ENTERING THE TRENCH EXCAVATION.
- MAINTAIN A MINIMUM 18" VERTICAL SEPARATION DISTANCE BETWEEN ALL UTILITY CROSSINGS.

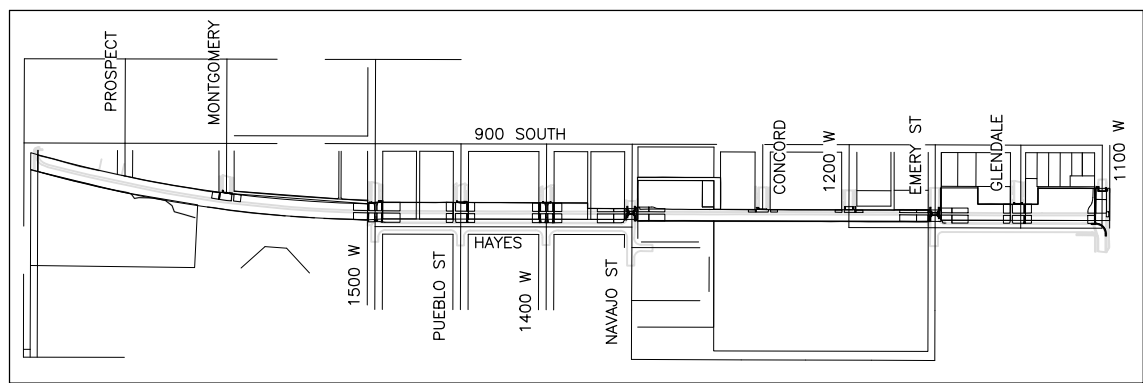
LEGEND

SYMBOL/LINETYPE	DESCRIPTION	HATCH LEGEND
--- x ---	LIMITS OF DISTURBANCE	EXISTING CONCRETE
---	EXISTING FENCE	EXISTING CONCRETE TO BE REMOVED
---	EXISTING WATER VALVE	EXISTING DETECTABLE WARNING SURFACE
---	EXISTING WATER METER	PROPOSED CONCRETE
---	EXISTING FIRE HYDRANT	EXISTING LANDSCAPING
---	EXISTING ELECTRICAL BOX	CLEAR AND GRUB
---	EXISTING LIGHT POLE	PROPOSED LANDSCAPING
---	EXISTING TELECOMMUNICATIONS VAULT	EXISTING ASPHALT
---	MISCELLANEOUS MANHOLE	EXISTING ASPHALT TO BE REMOVED
---	EXISTING SANITARY SEWER MANHOLE	PROPOSED ASPHALT
---	EXISTING GAS METER	
---	EXISTING STORM DRAIN DROP INLET	

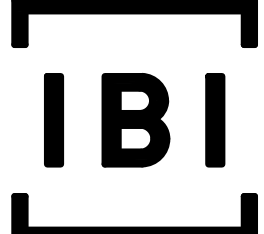
UTILITY NOTES CONT.

- CONTRACTOR SHALL START INSTALLATION AT LOW POINT OF ALL NEW GRAVITY UTILITY LINES.
- ALL BOLTED FITTINGS MUST BE GREASED AND WRAPPED.
- UNLESS SPECIFICALLY NOTED OTHERWISE, MAINTAIN AT LEAST 2 FEET OF COVER OVER ALL STORM DRAIN LINES AT ALL TIMES (INCLUDING DURING CONSTRUCTION).
- ALL WATER LINES SHALL BE INSTALLED A MINIMUM OF 36" OF COVER TO TOP OF PIPE BELOW FINISHED GRADE.
- ALL SEWER LINES AND SEWER SERVICES SHALL HAVE A MINIMUM SEPARATION OF 10 FEET, PIPE EDGE TO PIPE EDGE, FROM THE WATER LINES.
- CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE ANGLE POINTS AND TEES.
- ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK AND STREET PAVING.
- CONTRACTOR SHALL INSTALL MAGNETIC LOCATING TAPE CONTINUOUSLY OVER ALL NONMETALLIC PIPE.
- THE CONTRACTOR SHALL NOTIFY NVS, INC. IN WRITING AT LEAST 48 HOURS PRIOR TO BACKFILLING OF ANY PIPE WHICH STUBS TO A FUTURE PHASE OF CONSTRUCTION FOR INVERT VERIFICATION. TOLERANCE SHALL BE IN ACCORDANCE WITH THE REGULATORY AGENCY STANDARD SPECIFICATIONS.
- UNDER NO CIRCUMSTANCE SHALL THE PIPE OR ACCESSORIES BE DROPPED INTO THE TRENCH.
- IRRIGATION PLANS ARE SCHEMATIC: ALL VALVES ARE SHOWN DIAGRAMMATICALLY FOR CLARITY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PLACEMENT OF SYSTEM COMPONENTS. ALL IRRIGATION COMPONENTS ARE TO BE LOCATED IN PLANTING AREAS. IRRIGATION THAT IS SHOWN OUTSIDE PLANTING AREAS IS FOR CLARITY ONLY. COORDINATE IRRIGATION WORK WITH UTILITIES AND PLANTING LAYOUT TO AVOID CONFLICTS. CONTRACTOR IS RESPONSIBLE FOR 100% IRRIGATION COVERAGE TO PLANT MATERIAL SHOWN IN PLANS.

KEY PLAN



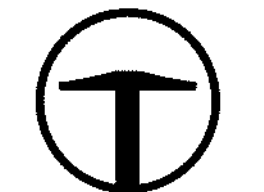
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PROFESSIONAL SEAL:

INFORMATION ONLY - NOT FOR CONSTRUCTION

PROJECT IDENTIFICATION:

9-LINE CORRIDOR IMPROVEMENTS 70% DOCUMENTS

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Written dimensions shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job and the Architect/Engineer shall be informed of any variations from the dimensions and conditions shown on the drawing. Shop drawings shall be submitted to the Architect/Engineer for approval before proceeding with fabrication.

PROJECT OWNER:

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SALT LAKE CITY, UT 84111
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WWW.SLCCGOV.COM/ENGINEERING

MARK	DATE	DESCRIPTION

PREPARER #: 105616

CONTRACT #: 300124

PROJECT #: 240505

FILE #:

DRAWING FILE:

DRAWN BY: XX

CHECKED BY: XX

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DATE: 02/12/2018

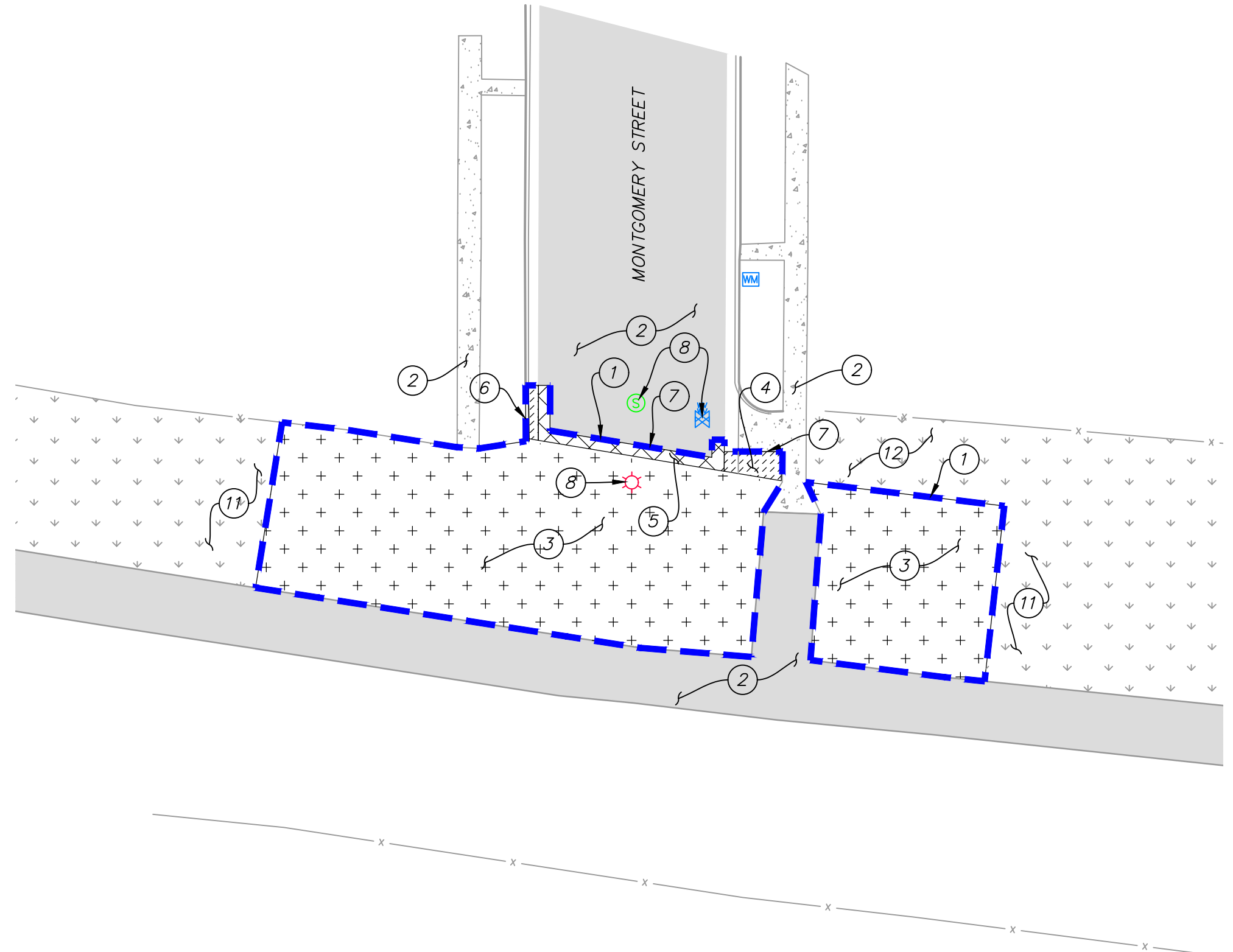
SHEET TITLE:

LEGEND, SYMBOLS, GENERAL NOTES, UTILITY NOTES

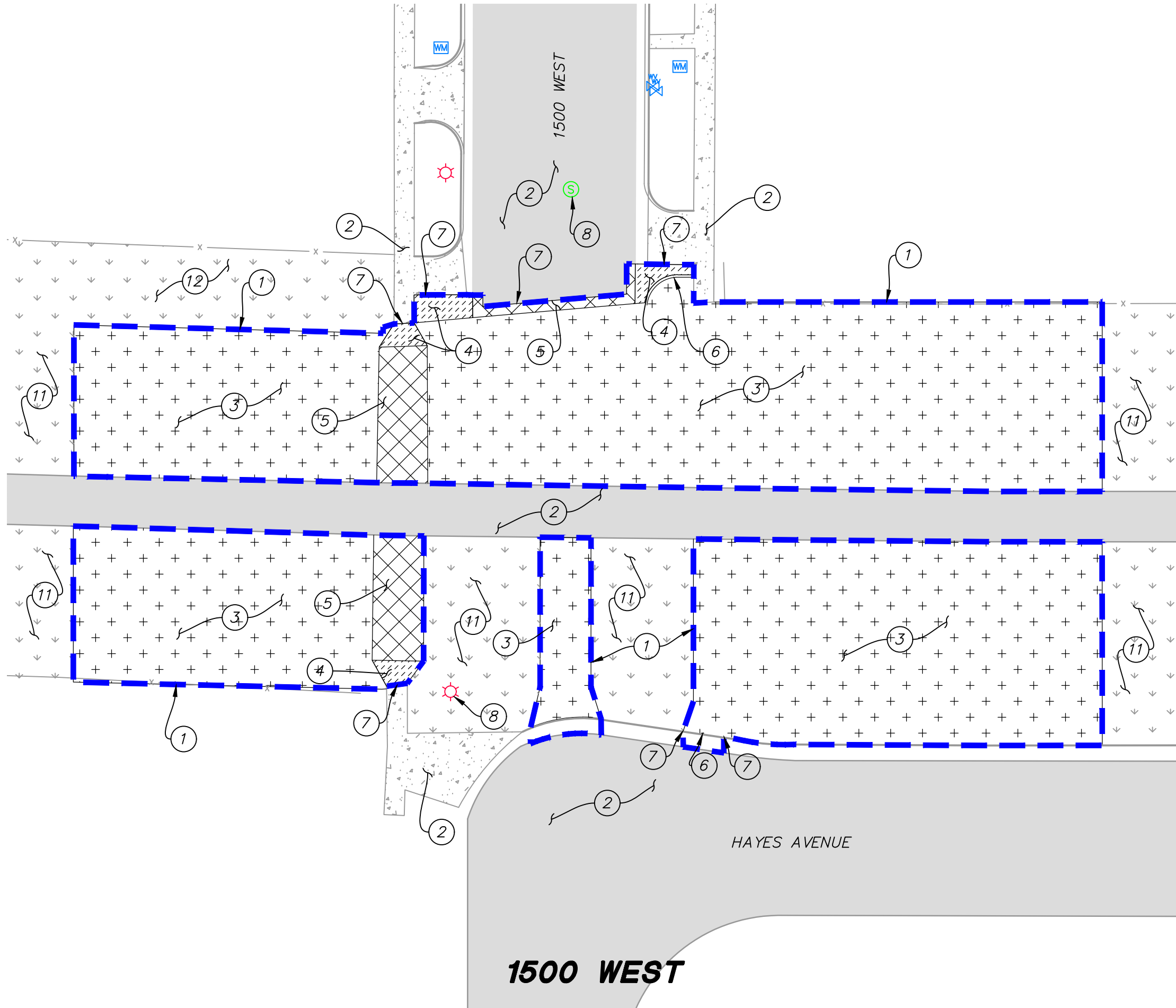
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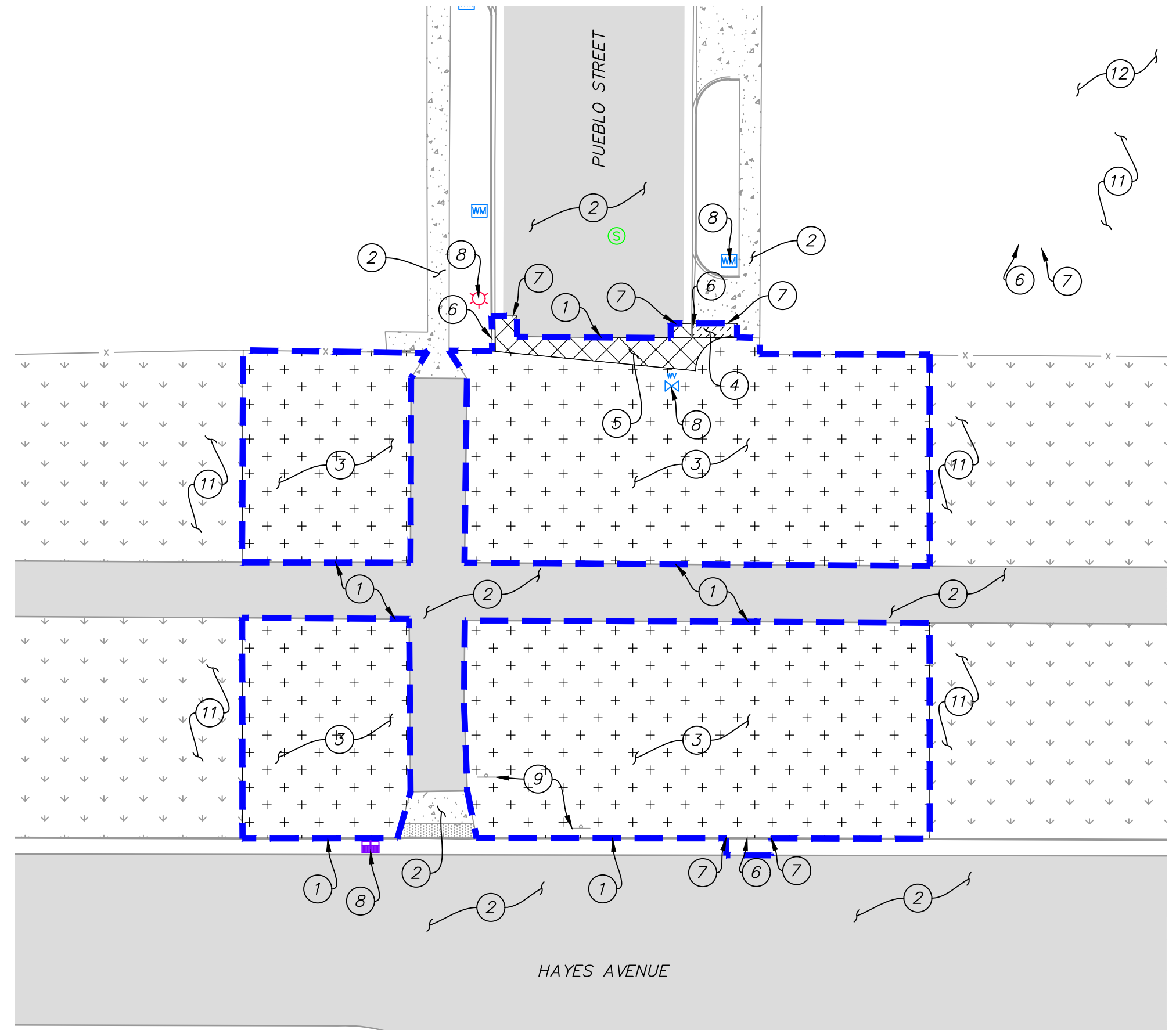
BINDING ORDER 2 OF 14



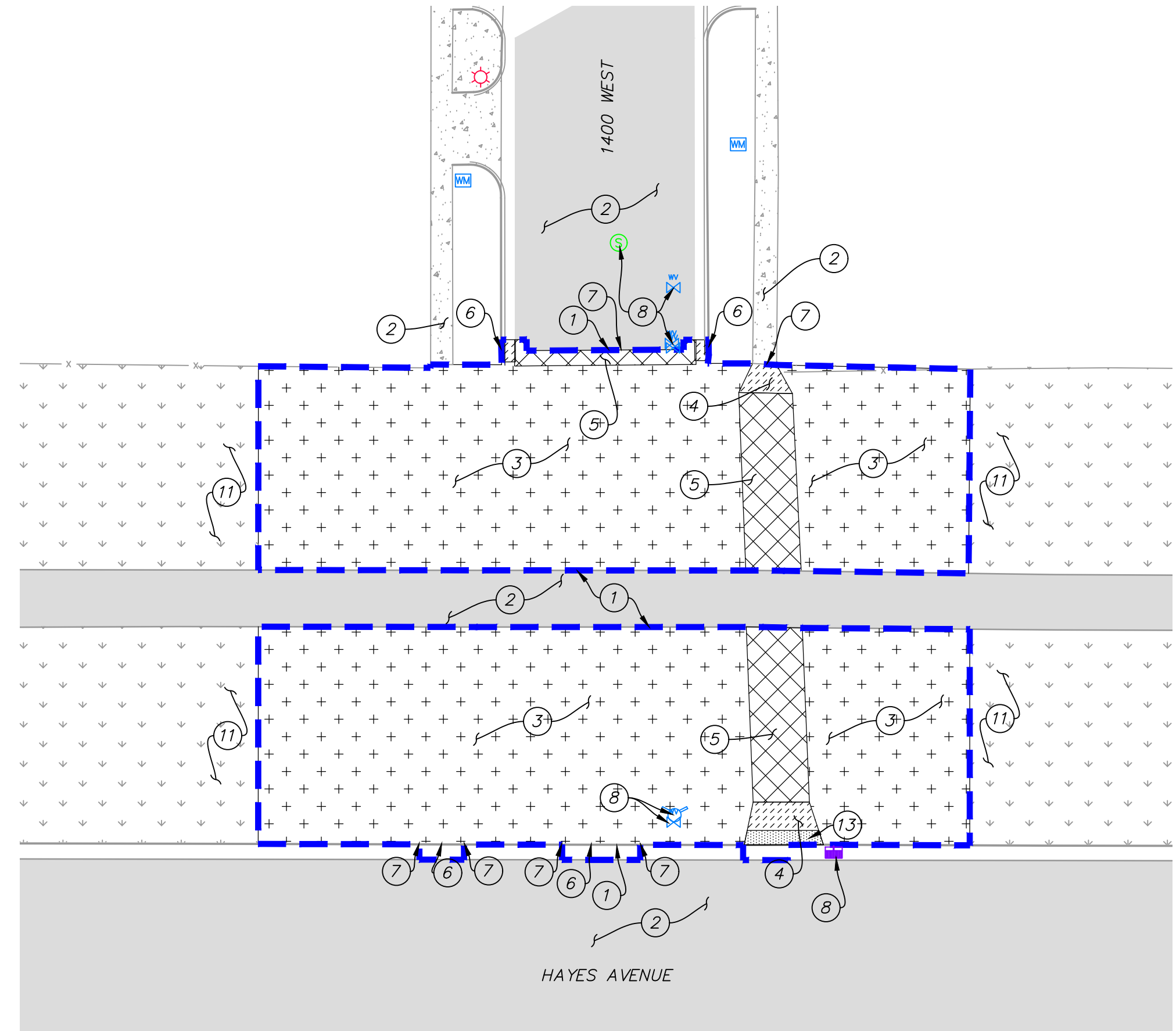
MONTGOMERY STREET



1500 WEST



PUEBLO STREET



1400 WEST

SITE GENERAL NOTES:

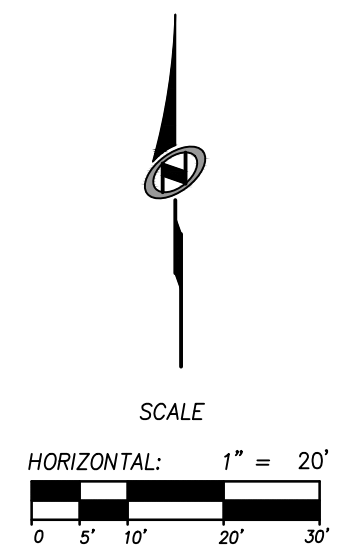
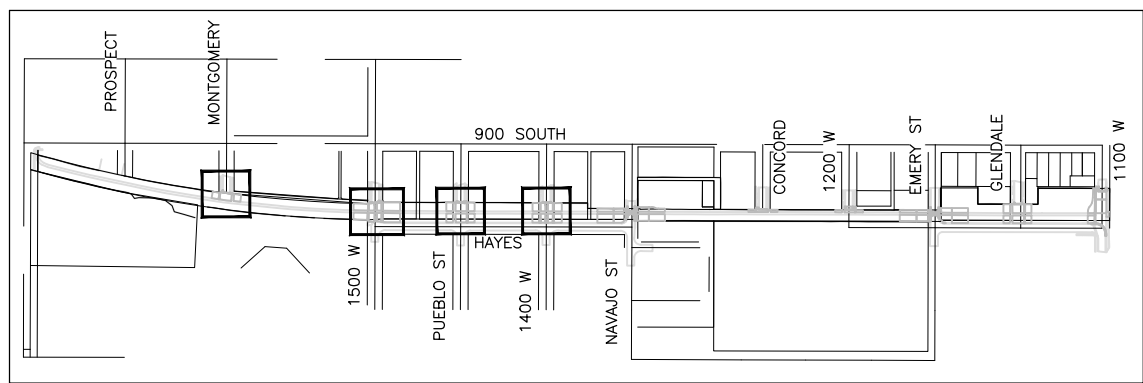
EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE 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.

LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS TO VERIFY CONNECTION POINTS WITH EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN.

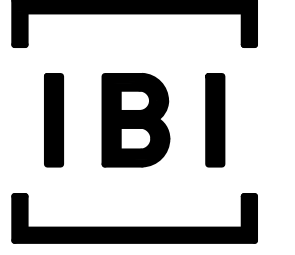
SCOPE OF WORK:

- ① APPROXIMATE LIMITS-OF-DISTURBANCE.
- ② PRESERVE AND PROTECT EXISTING PAVEMENT BEYOND LIMITS OF DISTURBANCE.
- ③ CLEAR & GRUB.
- ④ REMOVE AND PROPERLY DISPOSE OF EXISTING CONCRETE.
- ⑤ REMOVE AND PROPERLY DISPOSE OF EXISTING ASPHALT.
- ⑥ REMOVE AND PROPERLY DISPOSE OF CURB AND GUTTER.
- ⑦ SAWCUT TO PROVIDE SMOOTH CLEAN EDGE.
- ⑧ PRESERVE AND PROTECT EXISTING UTILITY STRUCTURE.
- ⑨ PROTECT IN PLACE EXISTING SIGN.
- ⑩ REMOVE AND PROPERLY DISPOSE OF EXISTING LIGHT POLE.
- ⑪ PRESERVE AND PROTECT EXISTING LANDSCAPING.
- ⑫ PRESERVE AND PROTECT EXISTING ACCESS DRIVE.
- ⑬ REMOVE AND PROPERLY DISPOSE OF EXISTING DETECTABLE WARNING SURFACE.

KEY PLAN



PREPARER:



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PREPARER CONSULTANTS:

CIVIL ENGINEER:



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801.743.1300

PROFESSIONAL SEAL:

INFORMATION ONLY - NOT FOR CONSTRUCTION

PROJECT IDENTIFICATION:

**9-LINE CORRIDOR IMPROVEMENTS
70% DOCUMENTS**

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PROJECT OWNER:

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F 801.535.6093

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MARK	DATE	DESCRIPTION

PREPARER #: 105616
CONTRACT #: 300124
PROJECT #: 240505
FILE #:
DRAWING FILE:
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DATE: 02/12/2018

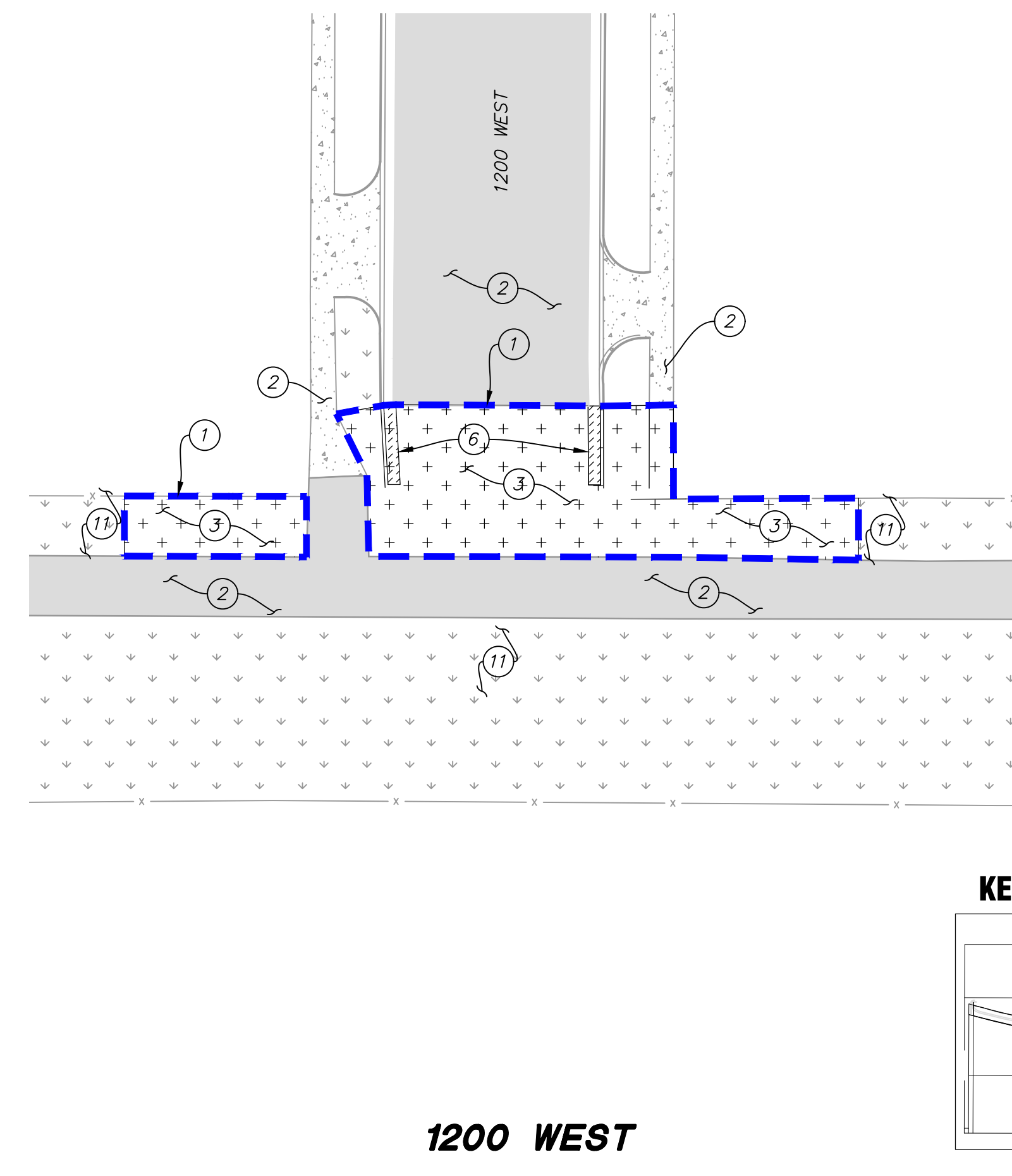
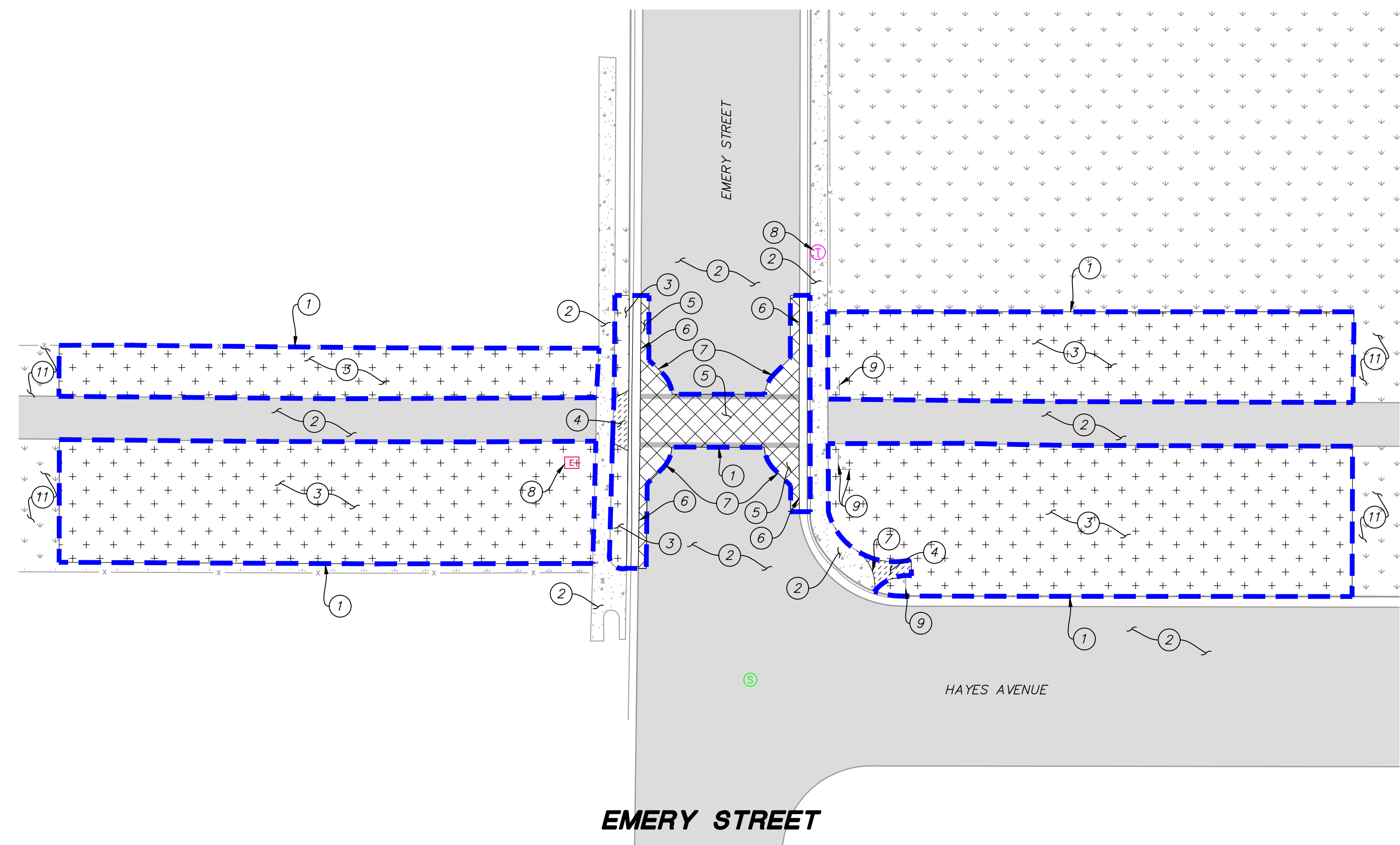
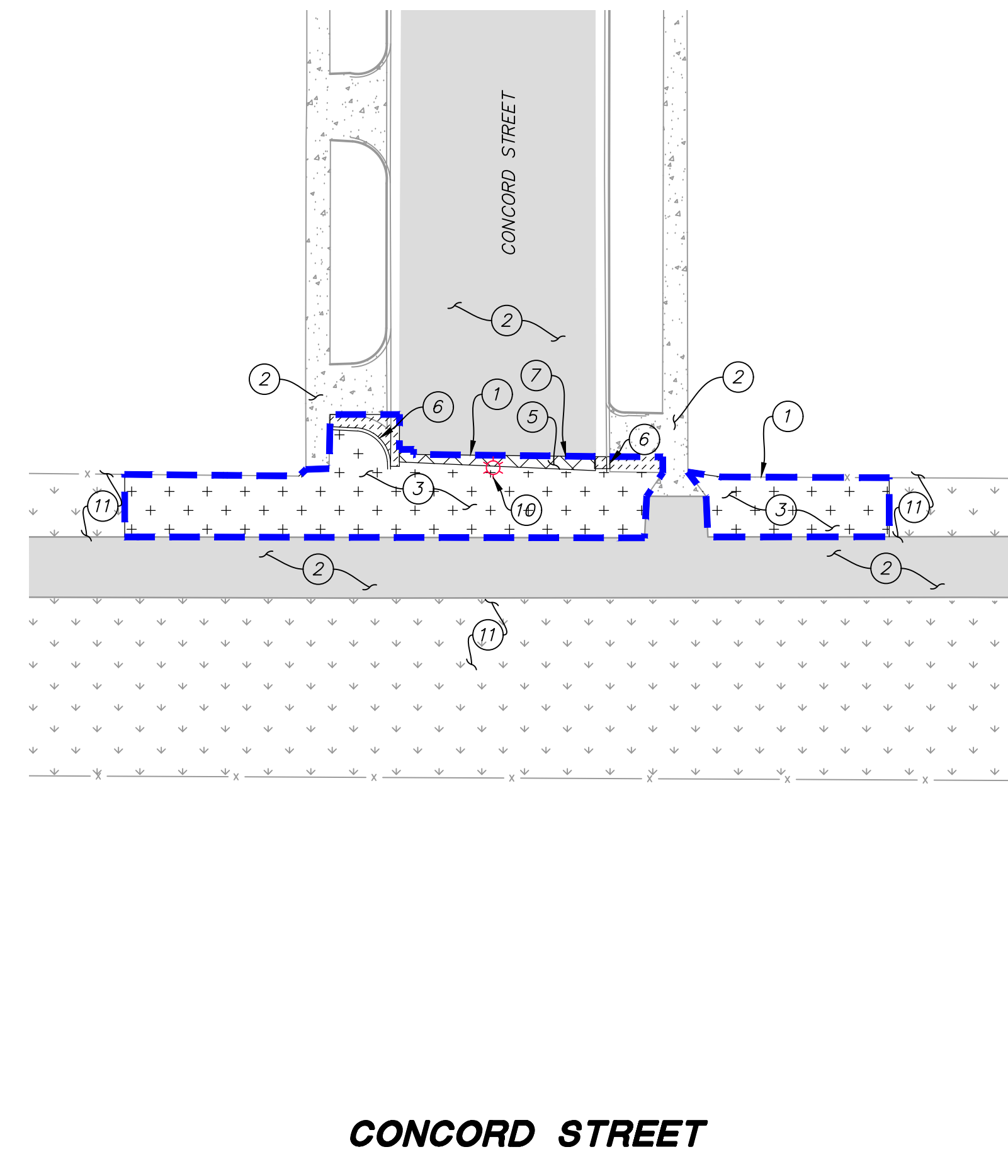
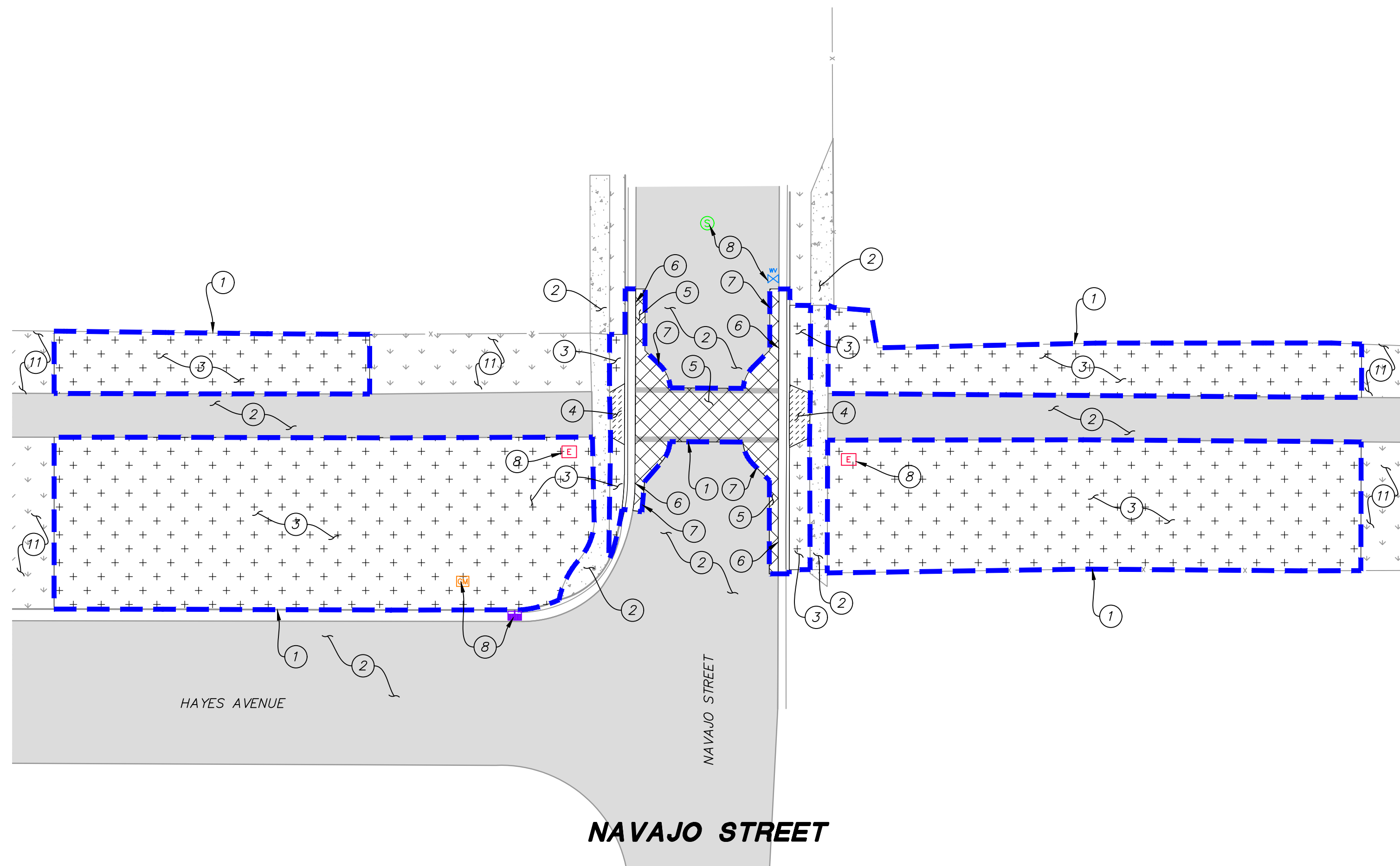
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DEMO PLANS

SHEET IDENTIFIER:

DM101

BINDING ORDER 3 OF 14



SITE GENERAL NOTES:

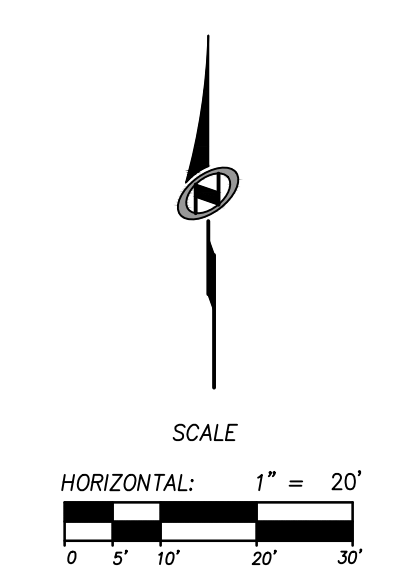
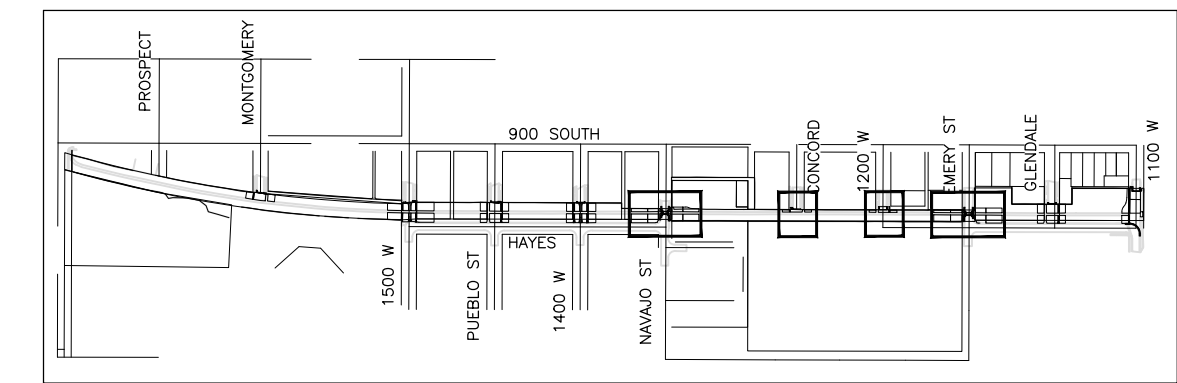
EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE 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.

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SCOPE OF WORK:

- 1 APPROXIMATE LIMITS--OF--DISTURBANCE.
- 2 PRESERVE AND PROTECT EXISTING PAVEMENT BEYOND LIMITS OF DISTURBANCE.
- 3 CLEAR & GRUB.
- 4 REMOVE AND PROPERLY DISPOSE OF EXISTING CONCRETE.
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- 12 PRESERVE AND PROTECT EXISTING ACCESS DRIVE.
- 13 REMOVE AND PROPERLY DISPOSE OF EXISTING DETECTABLE WARNING SURFACE.

KEY PLAN



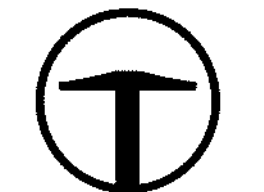
PREPARER:



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PREPARER CONSULTANTS:

CIVIL ENGINEER:



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CONTRACT #: 300124
PROJECT #: 240505
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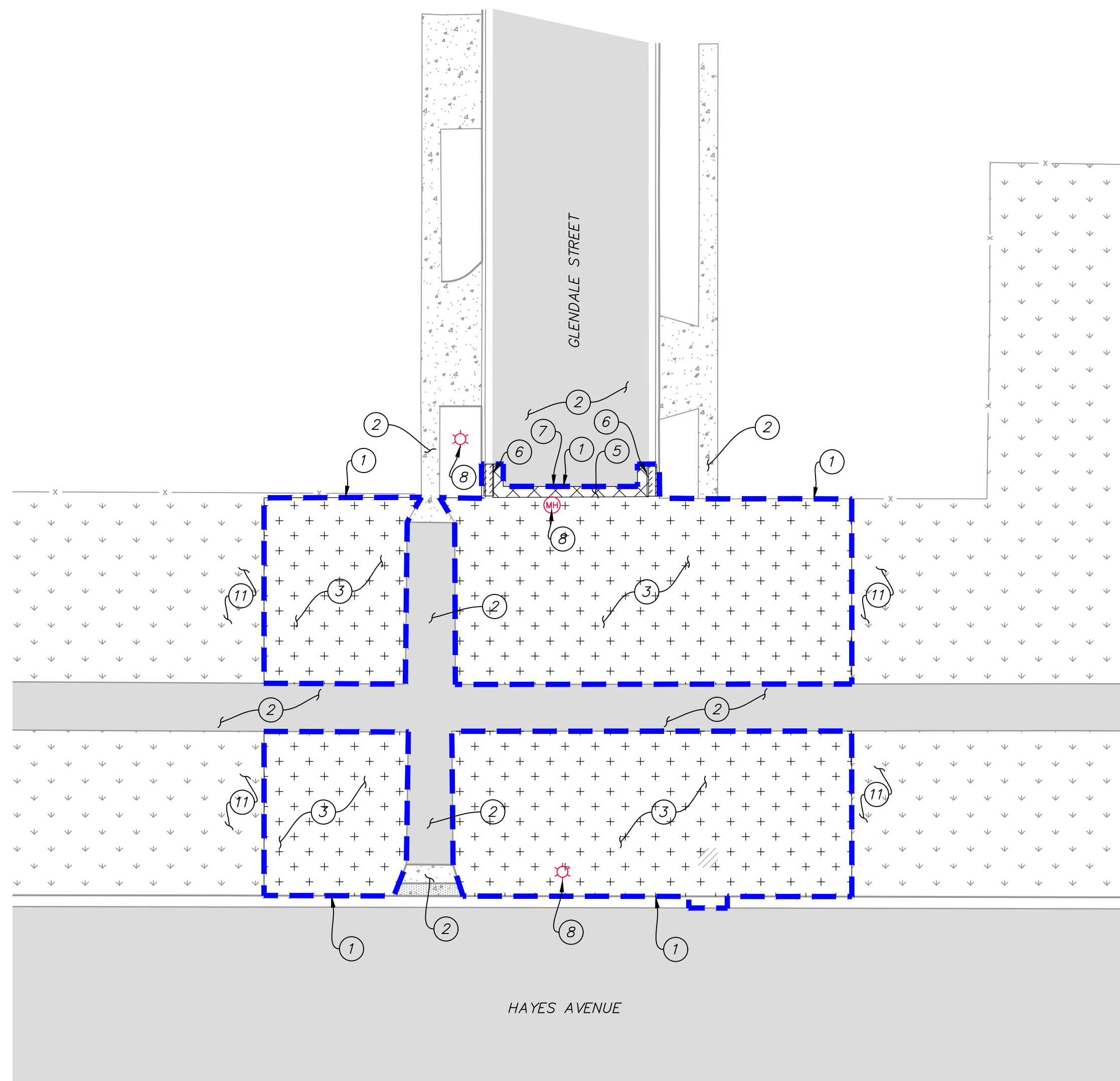
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DEMO PLANS

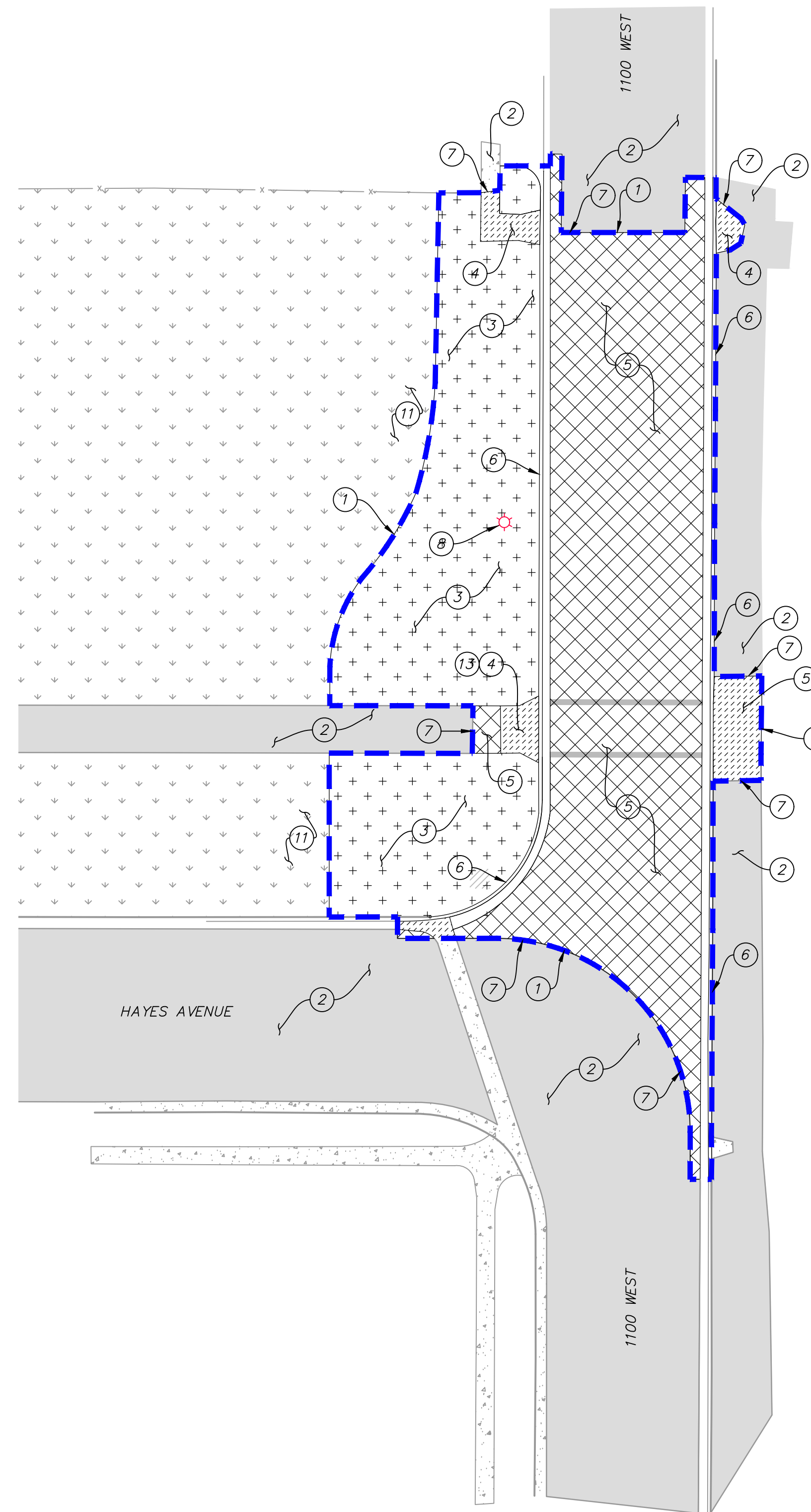
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DM102

BINDING ORDER 4 OF 14



GLENDALE STREET



1100 WEST

SITE GENERAL NOTES:

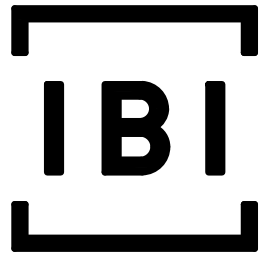
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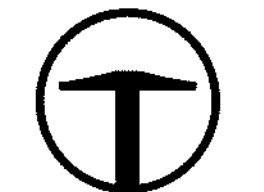
PREPARER:



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PREPARER CONSULTANTS:

CIVIL ENGINEER:



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MARK	DATE	DESCRIPTION

PREPARER #: 105616

CONTRACT #: 300124

PROJECT #: 240505

FILE #:

DRAWING FILE:

DRAWN BY: XX

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DATE: 02/12/2018

SHEET TITLE:

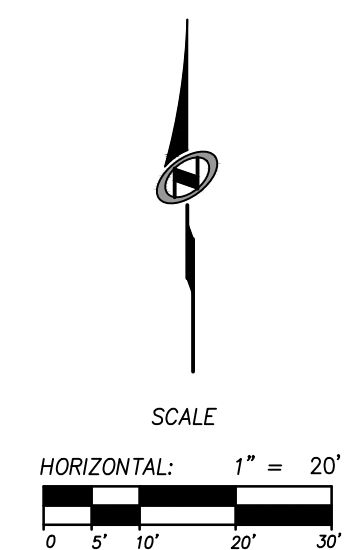
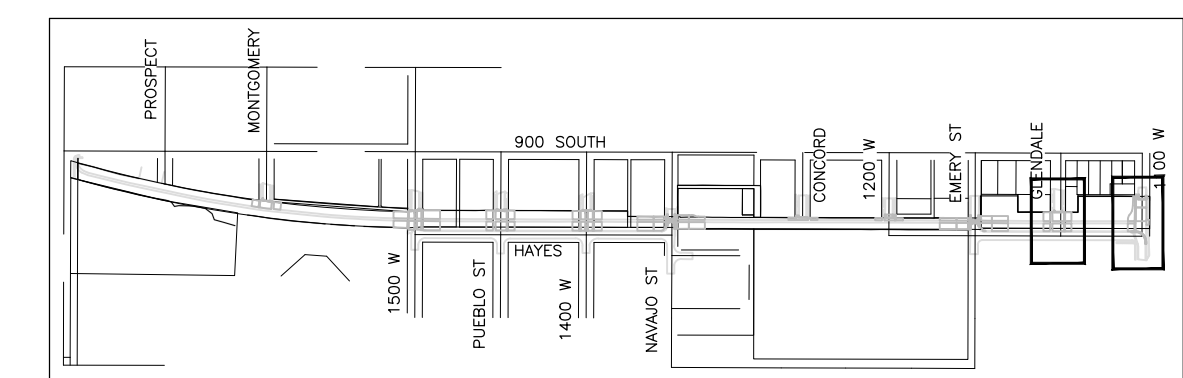
DEMO PLANS

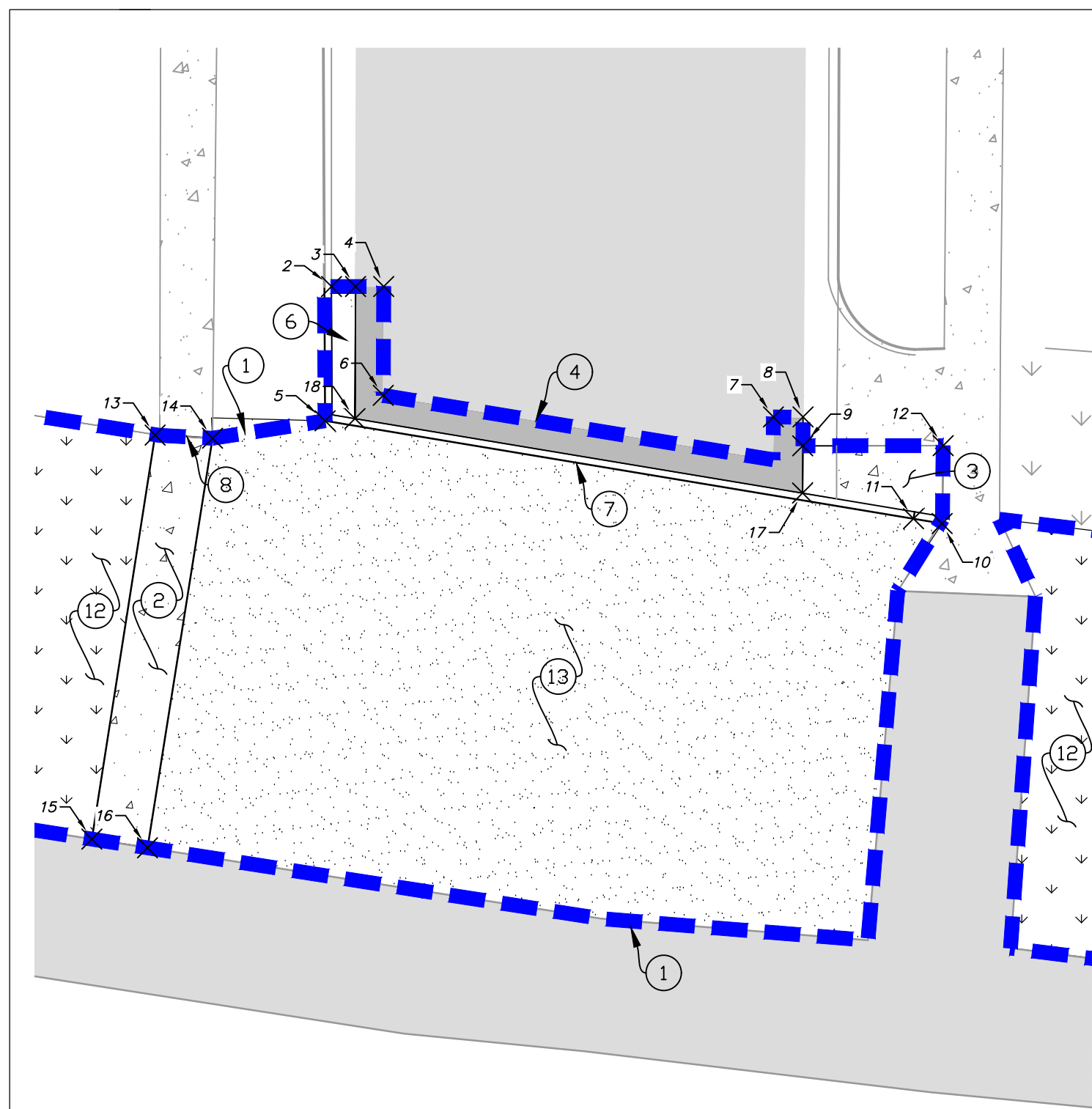
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DM103

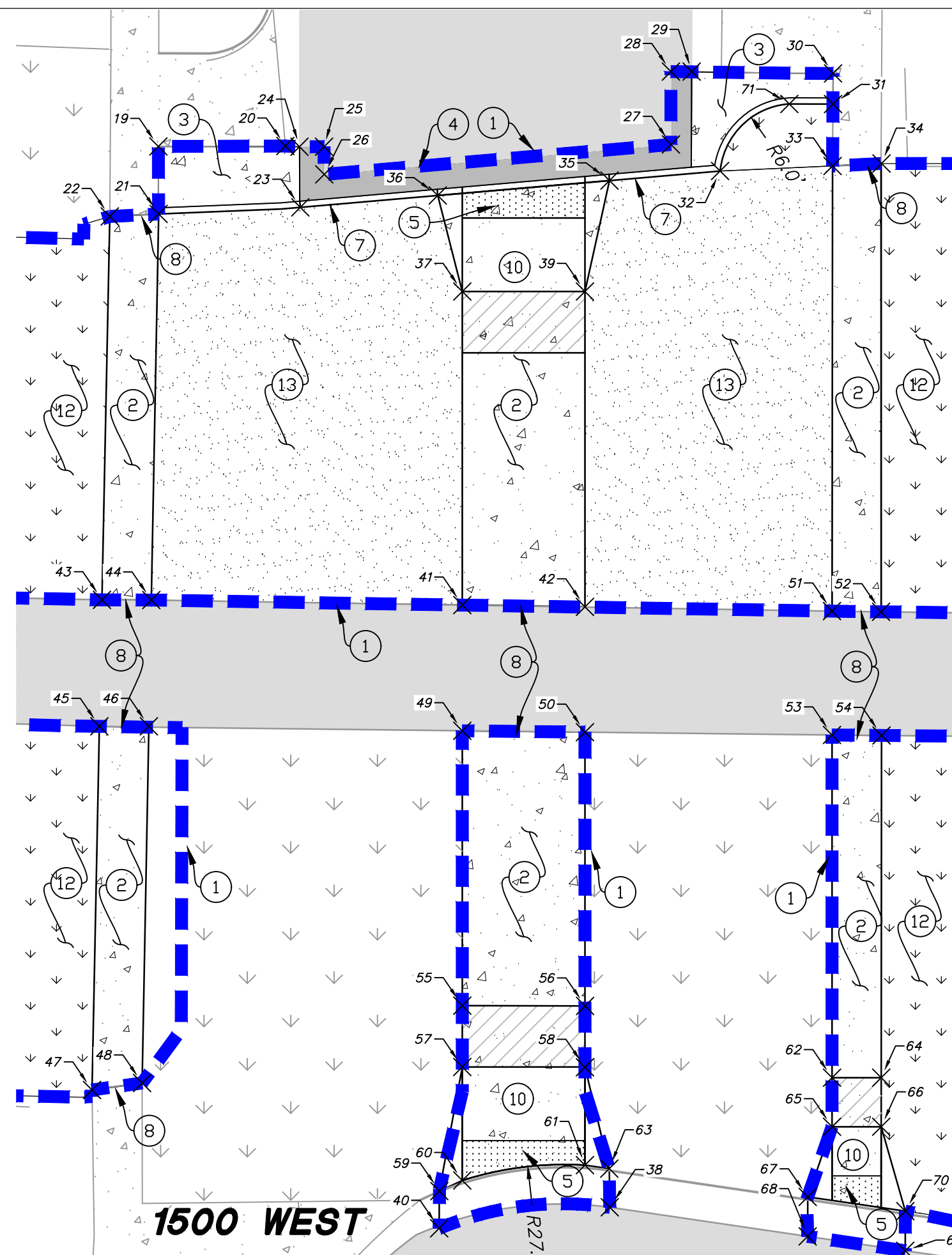
BINDING ORDER 5 OF 14

KEY PLAN

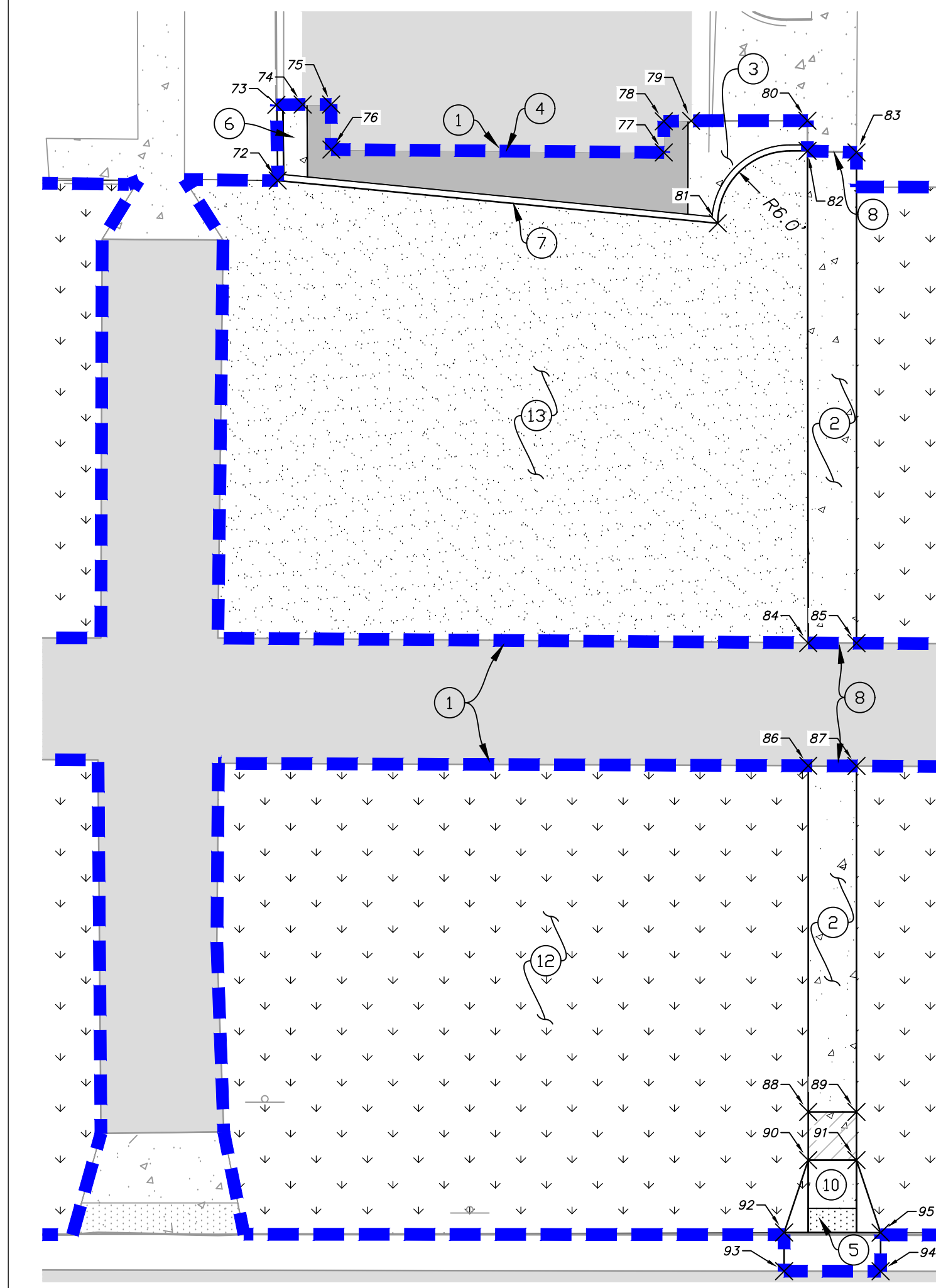




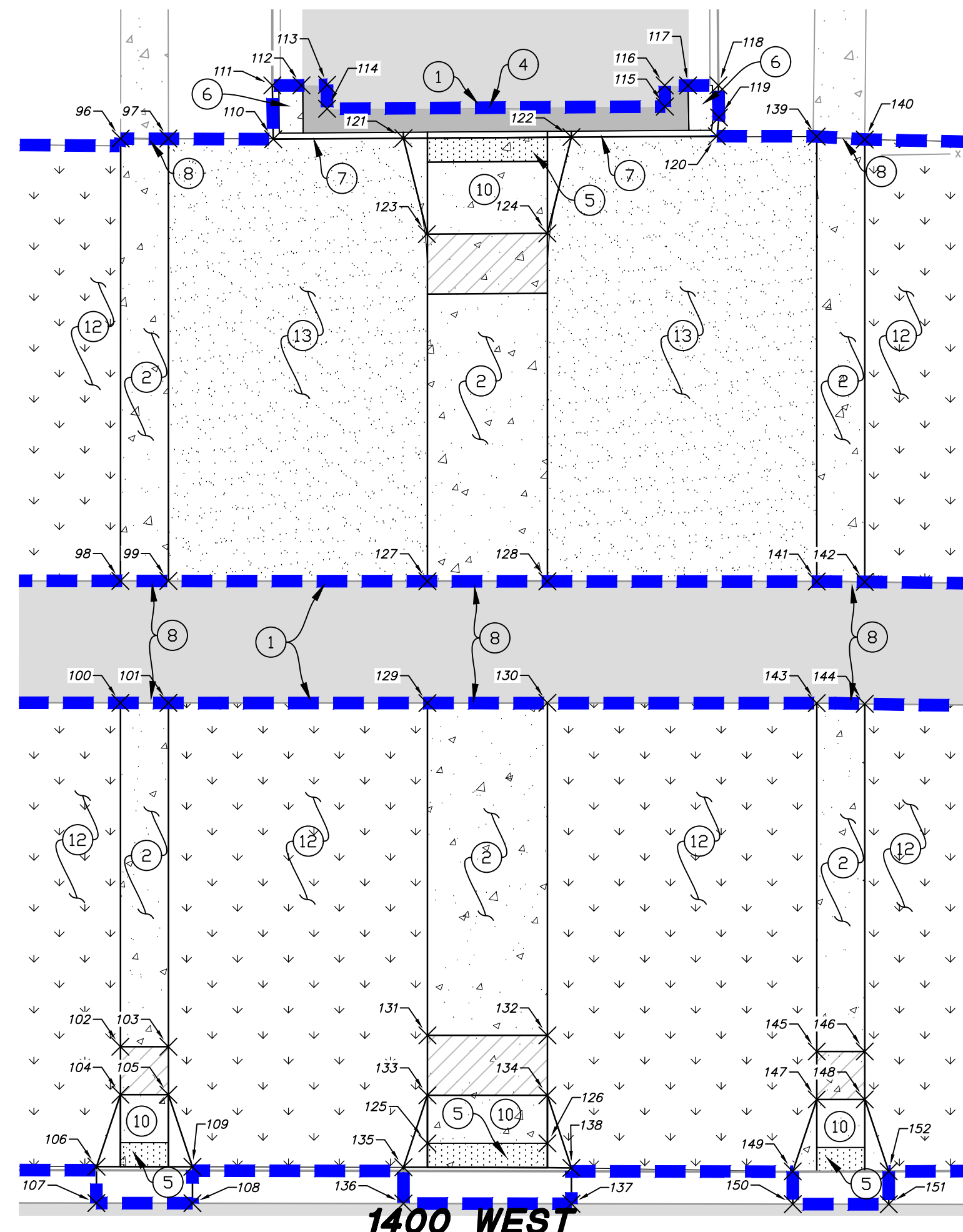
MONTGOMERY STREET



1500 WEST



PUEBLO STREET



1400 WEST

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33	7442072.04	1520330.82
34	7442072.24	1520334.81
35	7442070.85	1520312.64
36	7442069.63	1520298.64
37	7442061.81	1520300.64
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40	7441985.45	1520298.75
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44	7442036.66	1520275.28
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47	7441996.73	1520270.45
48	7441997.30	1520274.54
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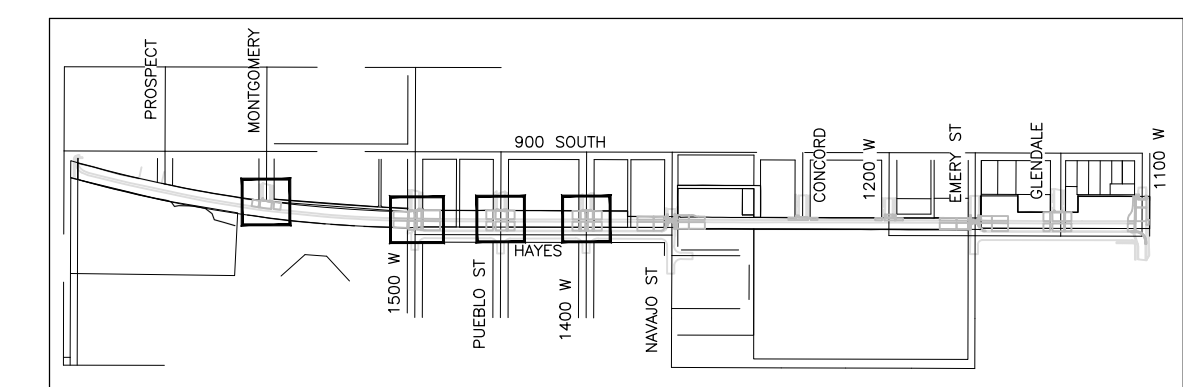
SCOPE OF WORK:

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS.

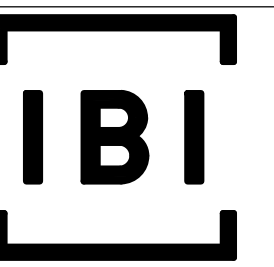
- ① APPROXIMATE LIMITS OF DISTURBANCE.
- ② INSTALL CONCRETE SIDEWALK PER APWA STANDARD PLAN 231, SEE DETAIL D SHEET DT401.
- ③ OPEN DRIVEWAY APPROACH PER APWA STANDARD PLAN 225, SEE DETAIL C SHEET DT401.
- ④ ASPHALT PAVEMENT TIE IN PER APWA STANDARD PLAN 251, SEE DETAIL D SHEET DT402.
- ⑤ INSTALL DETECTABLE WARNING SURFACE PER APWA STANDARD PLAN 238, SEE DETAIL C SHEET DT402.
- ⑥ INSTALL TYPE A CURB AND GUTTER TO MATCH EXISTING PER APWA STANDARD PLAN 205, SEE DETAIL A SHEET DT401.
- ⑦ INSTALL TYPE P CURB PER APWA STANDARD PLAN 209, SEE DETAIL B SHEET DT401.
- ⑧ MATCH EXISTING IMPROVEMENTS.
- ⑨ PAINT 10' CROSS WALK PER M.U.T.C.D.
- ⑩ CURB CUT PER APWA STANDARD PLAN 236, SEE DETAIL A SHEET DT402.
- ⑪ REFER TO MEDIAN DETAIL APWA STANDARD PLAN 237, SEE DETAIL B SHEET DT402.
- ⑫ LANDSCAPE SEE LANDSCAPE PLANS.
- ⑬ DEGRADED GRANITE, SEE LANDSCAPE PLANS.

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149	7441983.73	1521073.26
150	7441981.00	1521073.27
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KEY PLAN



PREPARED BY:



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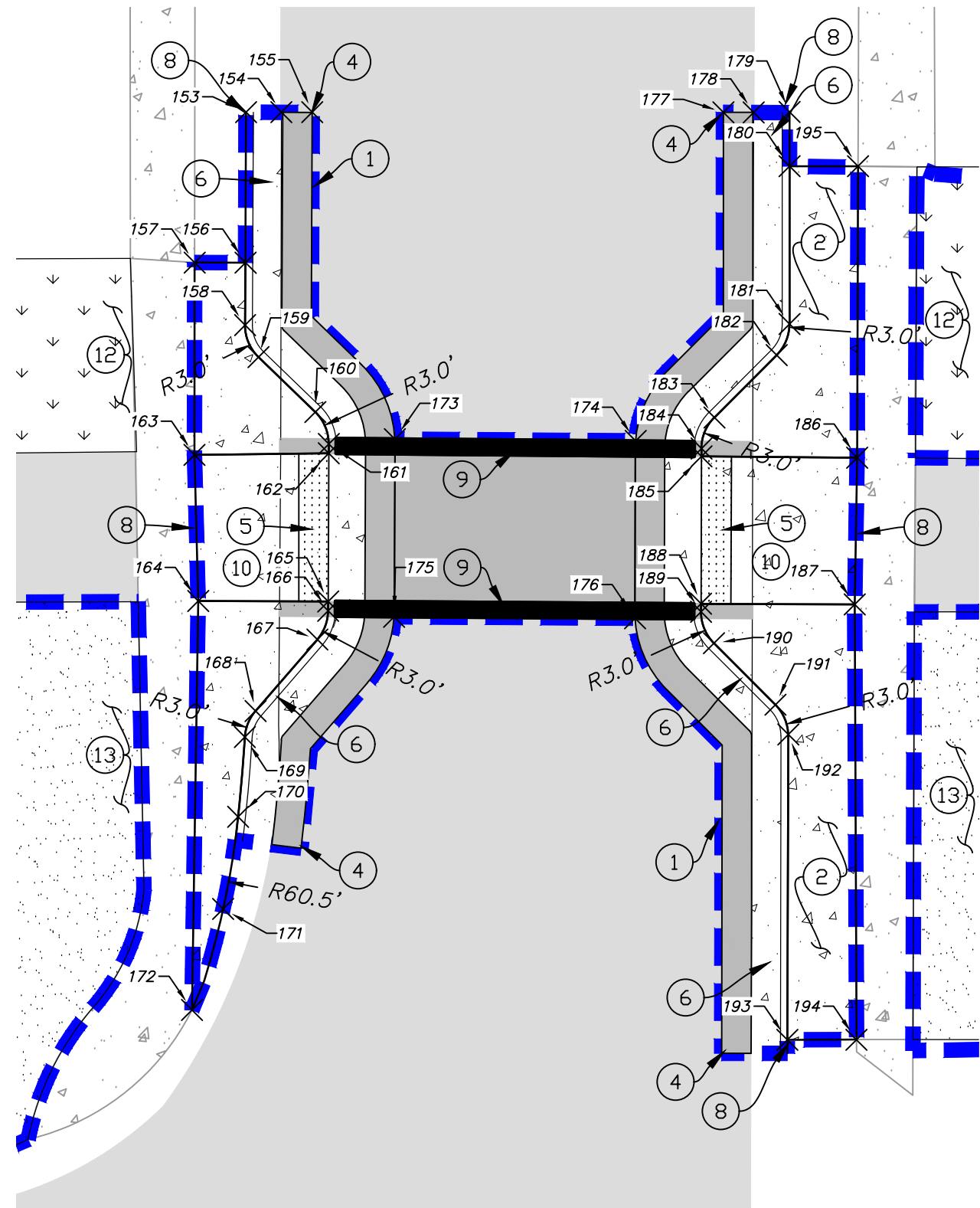
SHEET TITLE:

SITE AND HORIZONTAL CONTROL PLANS

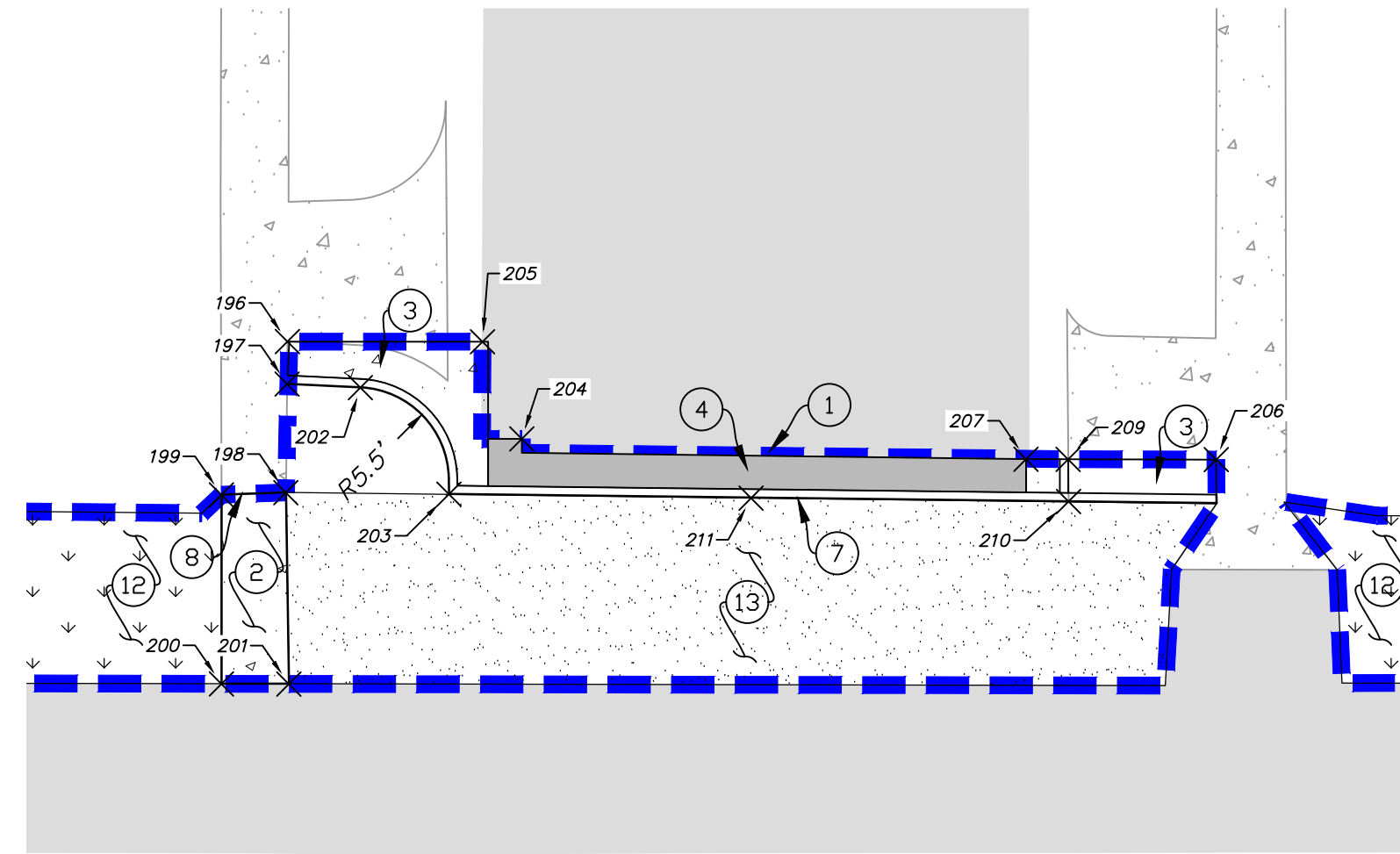
SHEET IDENTIFIER:

CP201

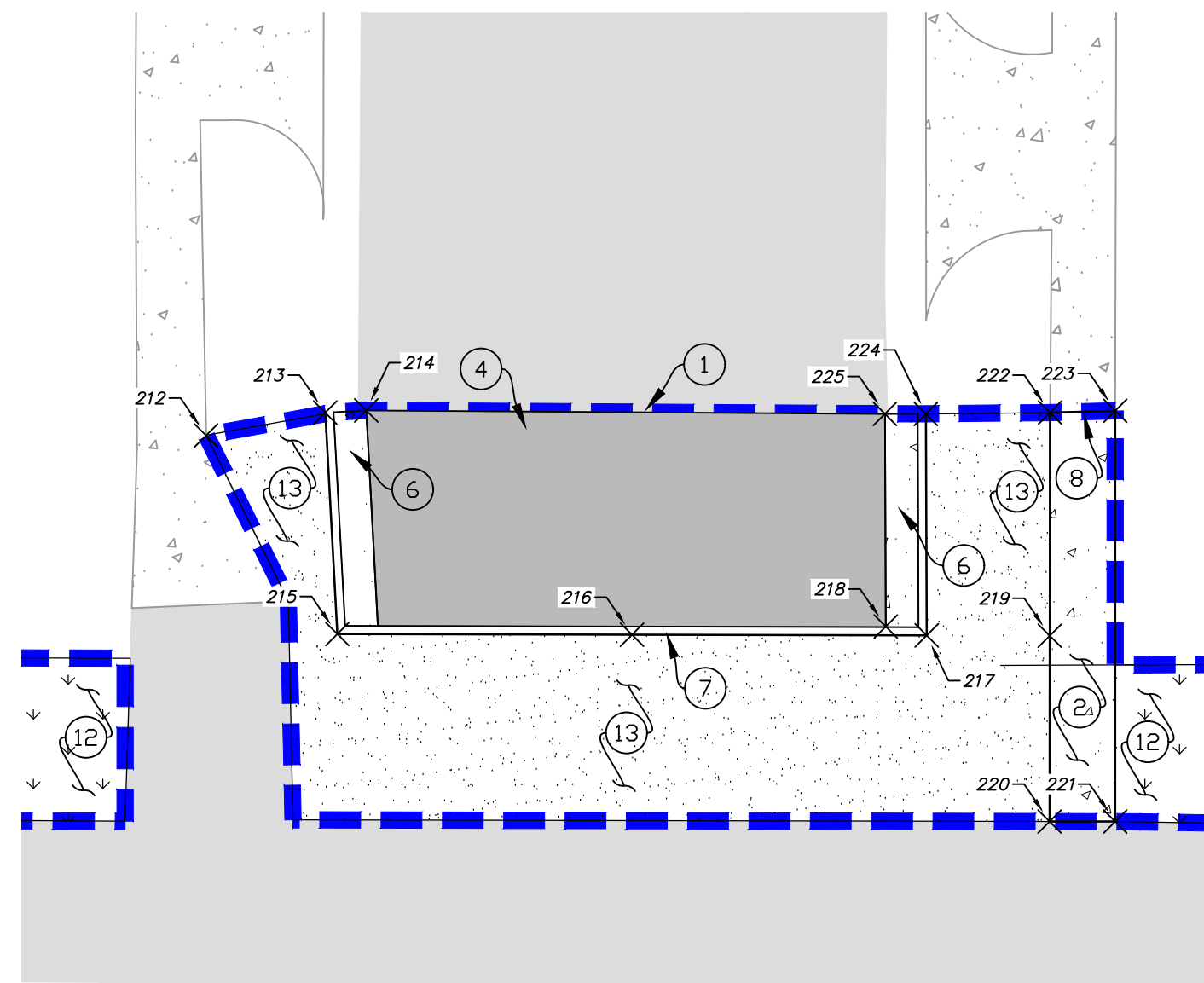
BINDING ORDER 6 OF 14



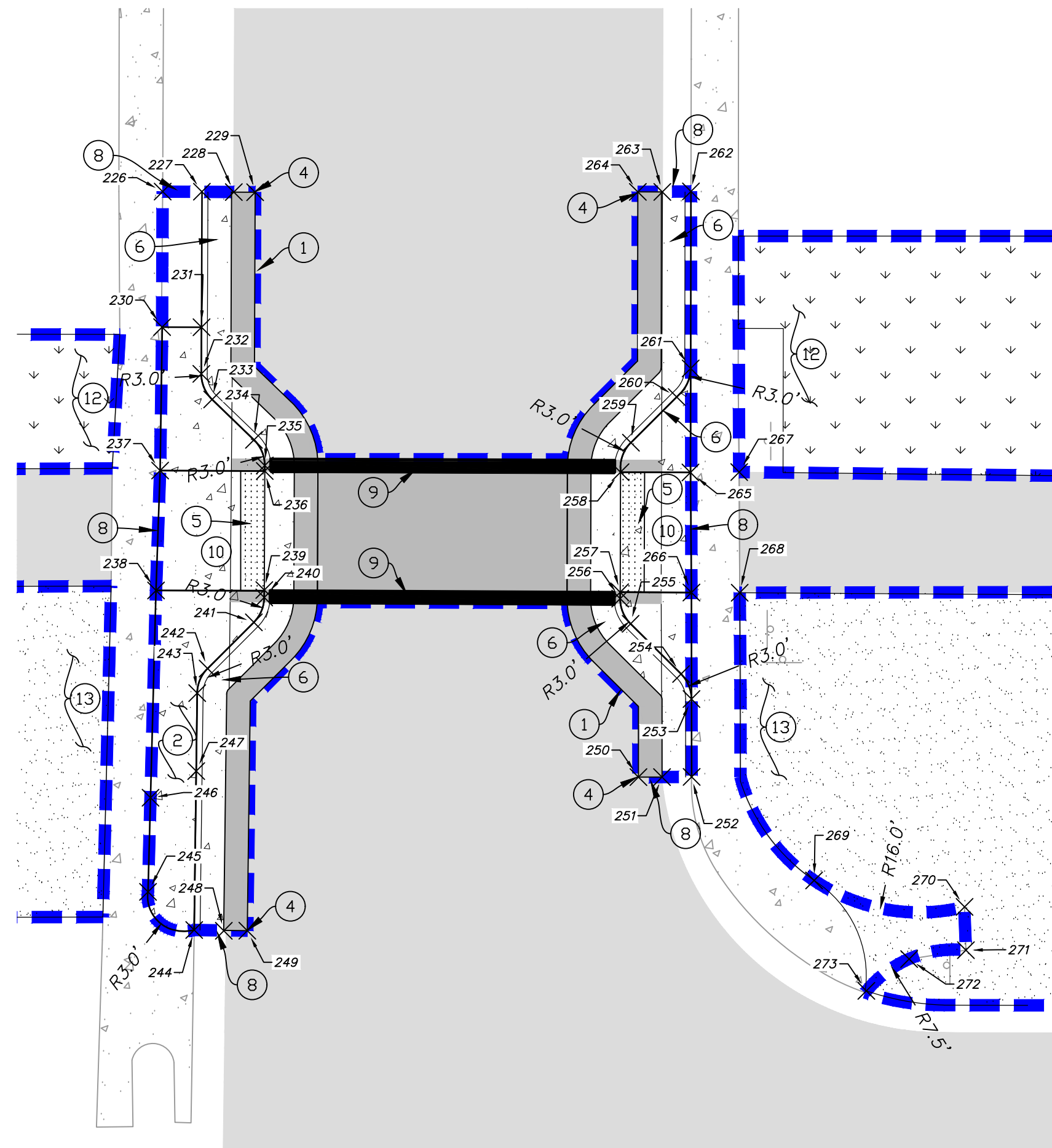
NAVAJO STREET



CONCORD STREET



1200 WEST



EMERY STREET

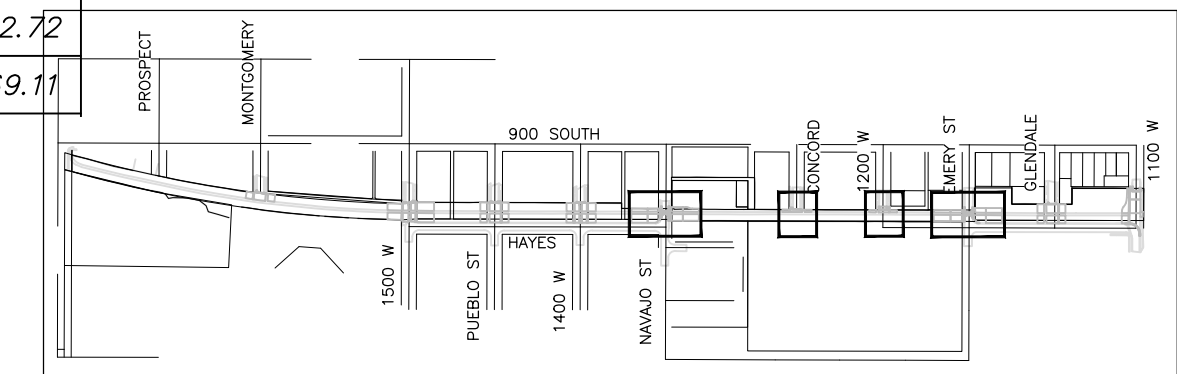
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154	7442055.24	1521398.91	217	7442040.23
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156	7442045.01	1521396.48	219	7442040.21
157	7442045.01	1521393.02	220	7442028.86
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159	7442038.59	1521397.36	222	7442053.84
160	7442034.86	1521401.23	223	7442053.95
161	7442032.69	1521402.14	224	7442053.76
162	7442032.05	1521402.14	225	7442053.76
163	7442031.94	1521393.00	226	7442050.93
164	7442022.01	1521393.26	227	7442050.92
165	7442021.98	1521402.10	228	7442050.89
166	7442021.34	1521402.10	229	7442050.88
167	7442019.39	1521401.37	230	7442039.45
168	7442014.53	1521397.16	231	7442039.44
169	7442012.76	1521396.43	232	7442035.48
170	7442007.34	1521395.97	233	7442033.32
171	7442001.08	1521394.95	234	7442029.89
172	7441994.21	1521392.83	235	7442027.72
173	7442033.01	1521406.63	236	7442027.25
174	7442032.90	1521423.02	237	7442027.29
175	7442020.94	1521406.58	238	7442017.13
176	7442020.84	1521422.98	239	7442017.17
177	7442055.23	1521428.99	240	7442016.54
178	7442055.22	1521431.04	241	7442014.43
179	7442055.26	1521433.49	242	7442010.51
180	7442051.57	1521433.49	243	7442008.43
181	7442040.84	1521433.49	244	7441988.35
182	7442038.72	1521432.61	245	7441991.59
183	7442034.49	1521428.37	246	7441999.57
184	7442032.38	1521427.50	247	7442001.82
185	7442031.84	1521427.49	248	7441988.29
186	7442031.75	1521438.08	249	7441988.30
187	7442021.78	1521437.92	250	7442001.31
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189	7442021.28	1521427.46	252	7442001.33
190	7442019.14	1521428.34	253	7442007.93
191	7442014.96	1521432.53	254	7442010.05
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194	7441992.18	1521438.04	257	7442016.98
195	7442051.57	1521438.14	258	7442027.15
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198	7442041.28	1521958.43	261	7442035.94
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200	7442029.93	1521954.60	263	7442050.90
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202	7442047.51	1521962.85	265	7442027.13
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SCOPE OF WORK:

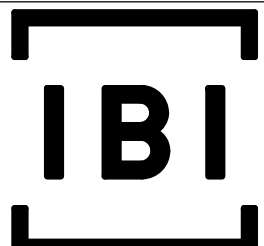
PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS.

- 1 APPROXIMATE LIMITS OF DISTURBANCE.
- 2 INSTALL CONCRETE SIDEWALK PER APWA STANDARD PLAN 231, SEE DETAIL D SHEET DT401.
- 3 OPEN DRIVEWAY APPROACH PER APWA STANDARD PLAN 225, SEE DETAIL C SHEET DT401.
- 4 ASPHALT PAVEMENT TIE IN PER APWA STANDARD PLAN 251, SEE DETAIL D SHEET DT402.
- 5 INSTALL DETECTABLE WARNING SURFACE PER APWA STANDARD PLAN 238, SEE DETAIL C SHEET DT402.
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- 10 CURB CUT PER APWA STANDARD PLAN 236, SEE DETAIL A SHEET DT402.
- 11 REFER TO MEDIAN DETAIL APWA STANDARD PLAN 237, SEE DETAIL B SHEET DT402.
- 12 LANDSCAPE SEE LANDSCAPE PLANS.
- 13 DEGRADED GRANITE, SEE LANDSCAPE PLANS.

KEY PLAN



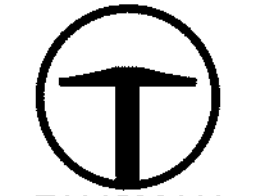
PREPARER:



IBI GROUP
10 EXCHANGE PLACE, SUITE 112
SALT LAKE CITY, UT 84111
T: 801.532.4233 F: 801.532.4231

PREPARER CONSULTANTS:

CIVIL ENGINEER:



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SUITE 200
MURRAY, UT 84107
801.743.1300

PROFESSIONAL SEAL:

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PROJECT OWNER:

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CONTRACT #: 300124
PROJECT #: 240505
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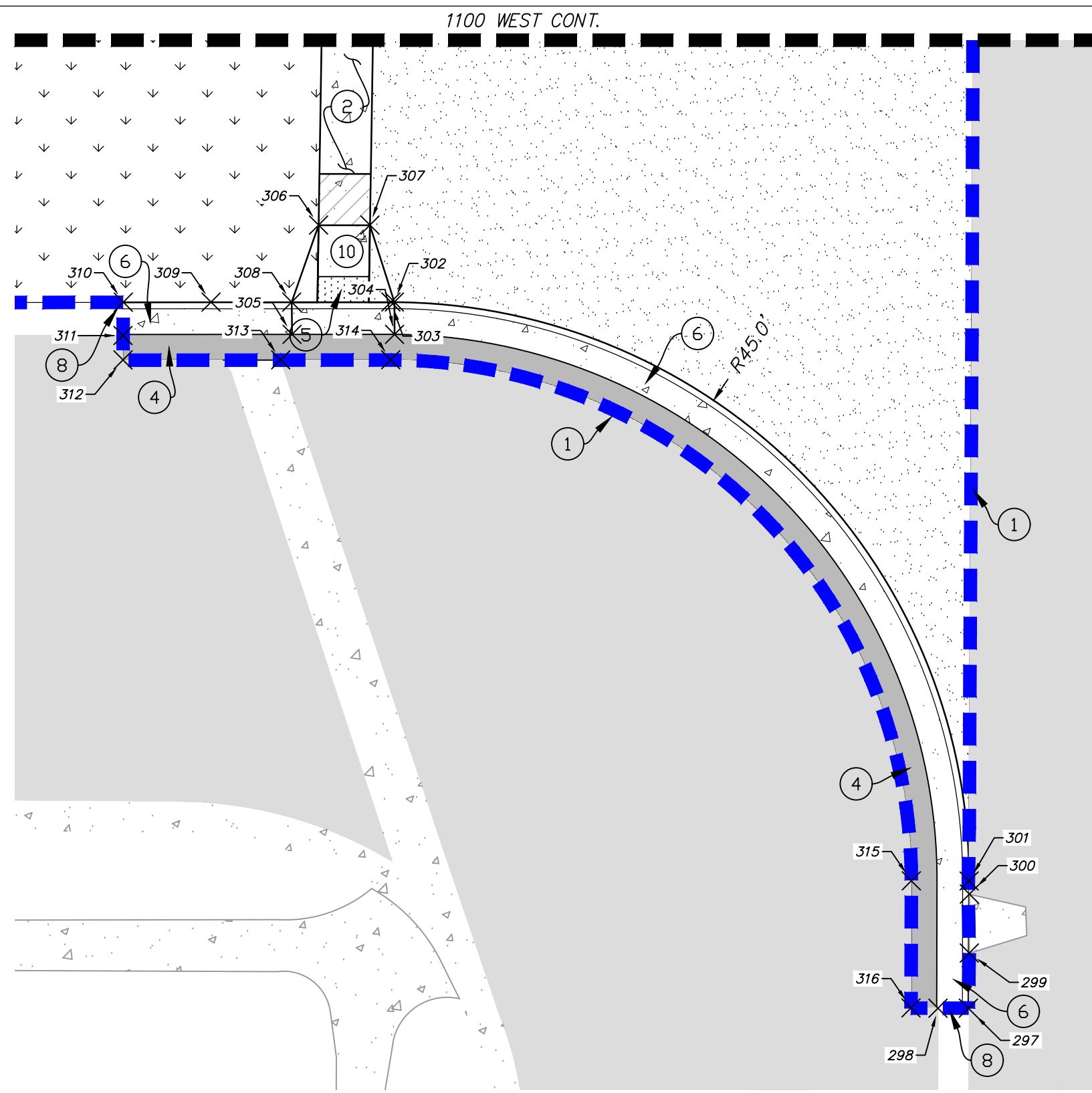
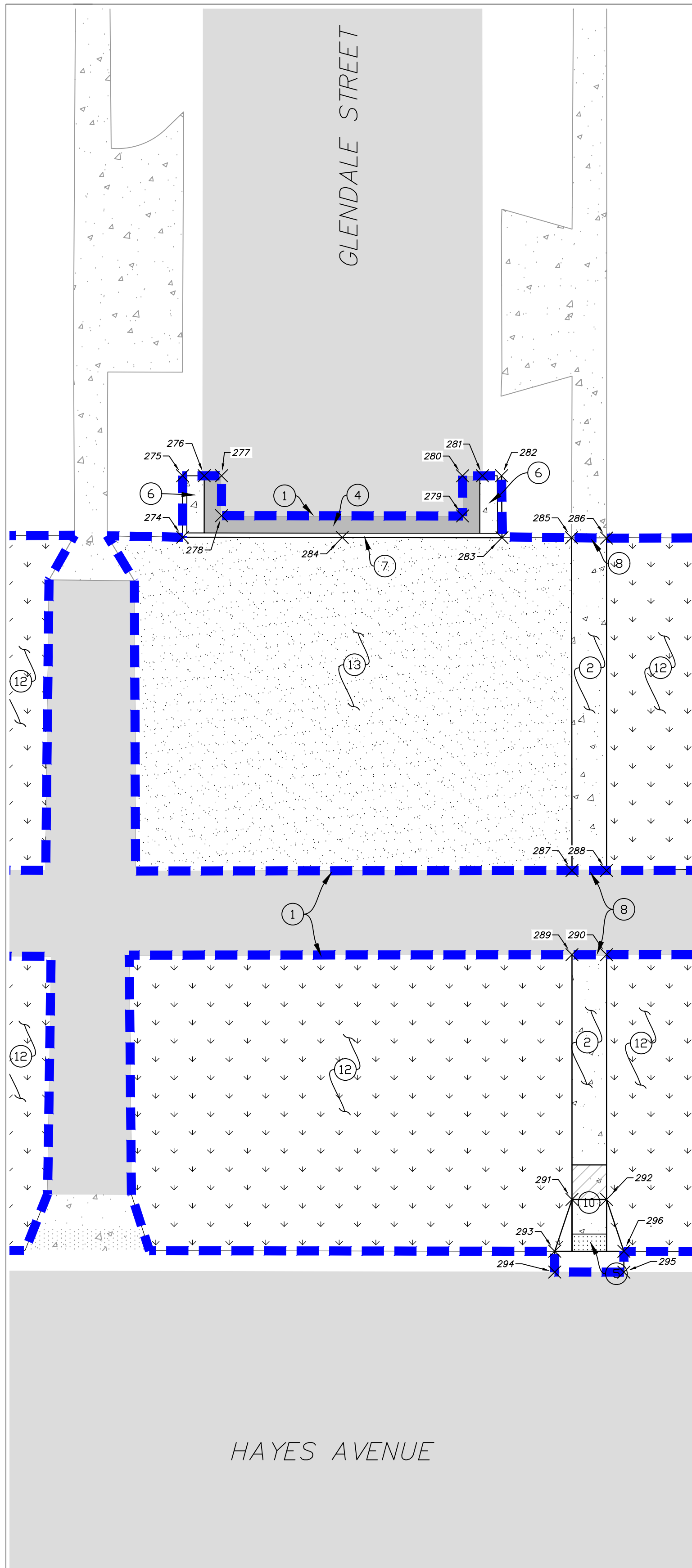
SHEET TITLE:

SITE AND HORIZONTAL CONTROL PLANS

SHEET IDENTIFIER:

CP202

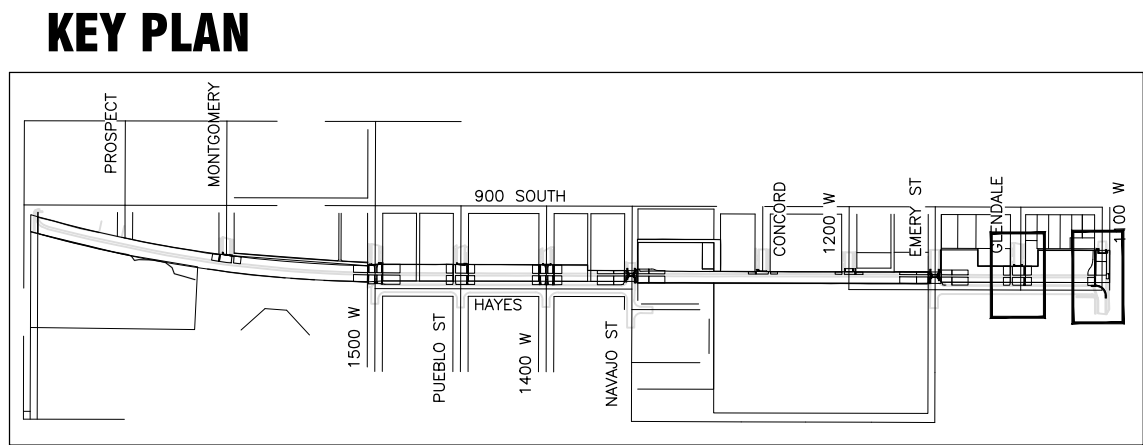
BINDING ORDER 7 OF 14

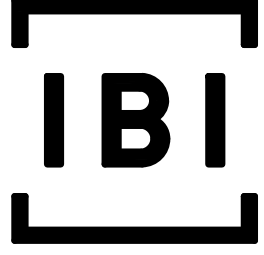



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 - 13 DEGRADED GRANITE, SEE LANDSCAPE PLANS.

Point Table

Point #	Northing	Easting
274	7442064.00	1523077.17
275	7442071.11	1523077.17
276	7442071.11	1523079.67
277	7442071.11	1523081.67
278	7442066.49	1523081.67
279	7442066.46	1523109.55
280	7442071.11	1523109.55
281	7442071.11	1523111.85
282	7442071.11	1523114.06
283	7442063.95	1523114.11
284	7442063.97	1523095.64
285	7442063.95	1523122.16
286	7442063.90	1523126.21
287	7442025.42	1523122.21
288	7442025.43	1523126.21
289	7442015.68	1523122.21
290	7442015.68	1523126.21
291	7441987.34	1523122.21
292	7441987.34	1523126.21
293	7441981.34	1523120.21
294	7441978.94	1523120.21
295	7441978.92	1523128.21
296	7441981.34	1523128.21
297	7441925.93	1523479.10
298	7441925.93	1523476.74
299	7441930.23	1523479.18
300	7441934.82	1523479.19
301	7441935.84	1523479.17
302	7441980.95	1523434.40
303	7441980.95	1523434.13
304	7441978.44	1523434.42
305	7441978.43	1523426.43
306	7441986.95	1523428.50
307	7441986.95	1523428.50
308	7441980.95	1523426.40
309	7441980.95	1523420.13
310	7441980.94	1523413.29
311	7441978.35	1523413.26
312	7441976.44	1523413.27
313	7441976.45	1523425.55
314	7441976.45	1523434.12
315	7441935.85	1523474.67
316	7441925.95	1523474.64
317	7442009.42	1523479.49
318	7442009.58	1523489.52
319	7442031.55	1523489.78
320	7442031.34	1523479.70
321	7442015.23	1523428.95
322	7442025.20	1523429.11
323	7442025.20	1523433.11
324	7442015.25	1523432.95
325	7442078.99	1523429.97
326	7442079.24	1523433.92
327	7442132.77	1523430.82
328	7442133.28	1523434.72
329	7442138.39	1523434.76
330	7442138.39	1523438.28
331	7442133.31	1523443.28
332	7442129.15	1523443.22
333	7442140.88	1523445.78
334	7442140.85	1523447.78
335	7442119.93	1523443.12
336	7442124.42	1523447.61
337	7442124.42	1523473.53
338	7442119.89	1523461.59
339	7442119.84	1523480.10
340	7442120.34	1523477.67
341	7442135.99	1523473.67
342	7442135.99	1523475.67
343	7442135.96	1523477.60
344	7442135.96	1523480.10
345	7442131.50	1523480.10
346	7442129.50	1523480.10
347	7442126.03	1523486.11
348	7442120.78	1523483.08
349	7442122.50	1523480.10
350	7442075.31	1523479.86
351	7442120.42	1523445.32



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PROFESSIONAL SEAL:

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PROJECT OWNER:
SALT LAKE CITY CORPORATION

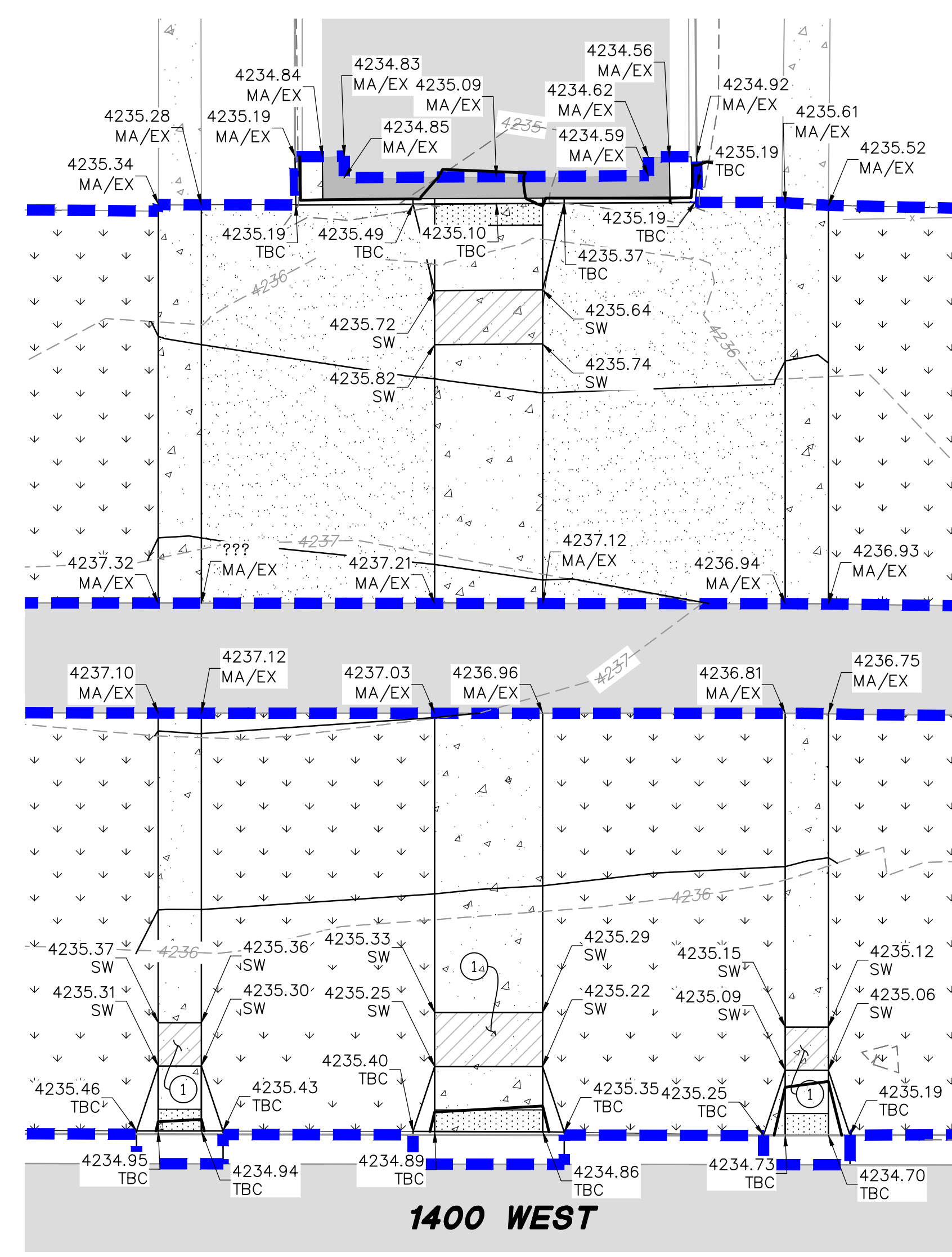
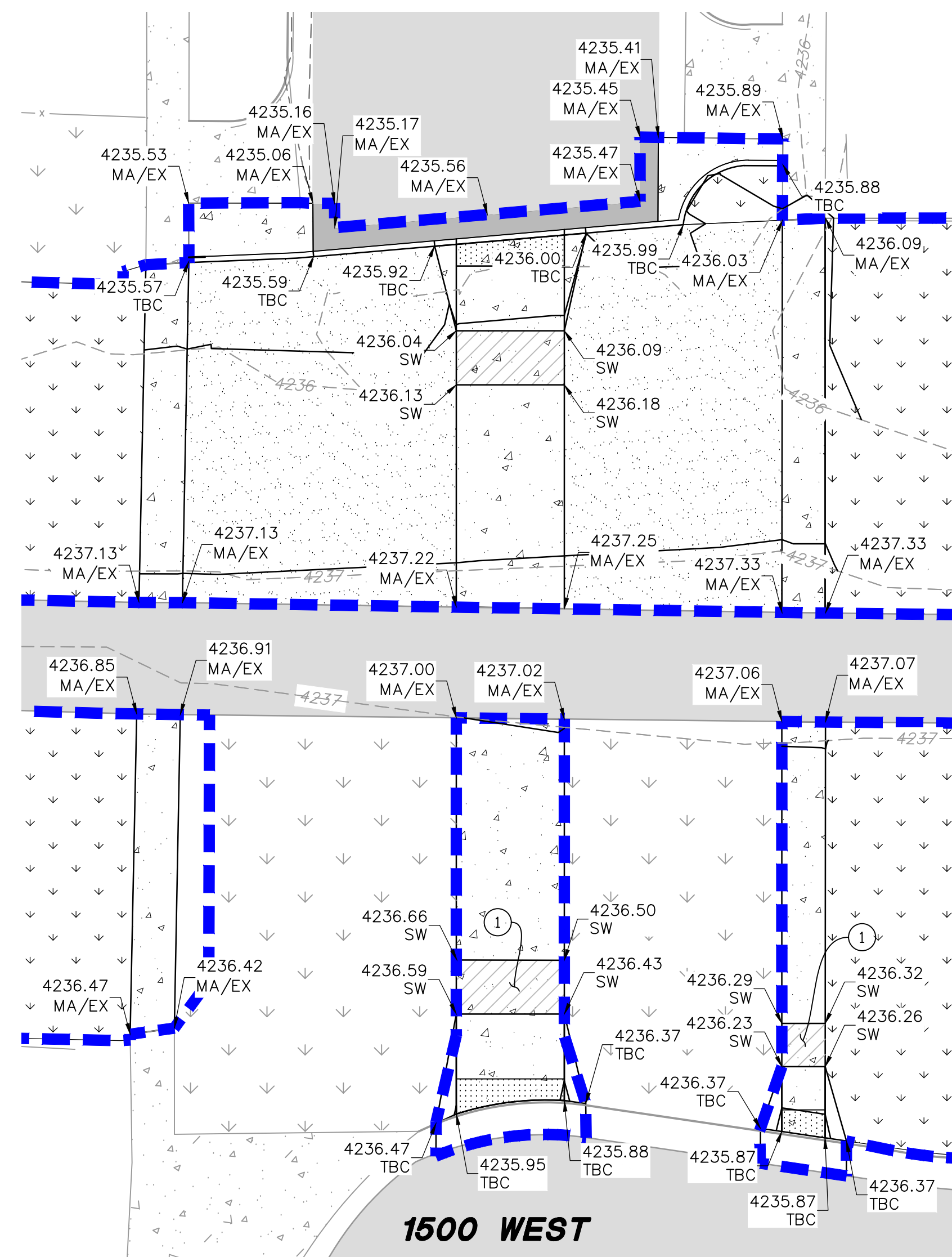
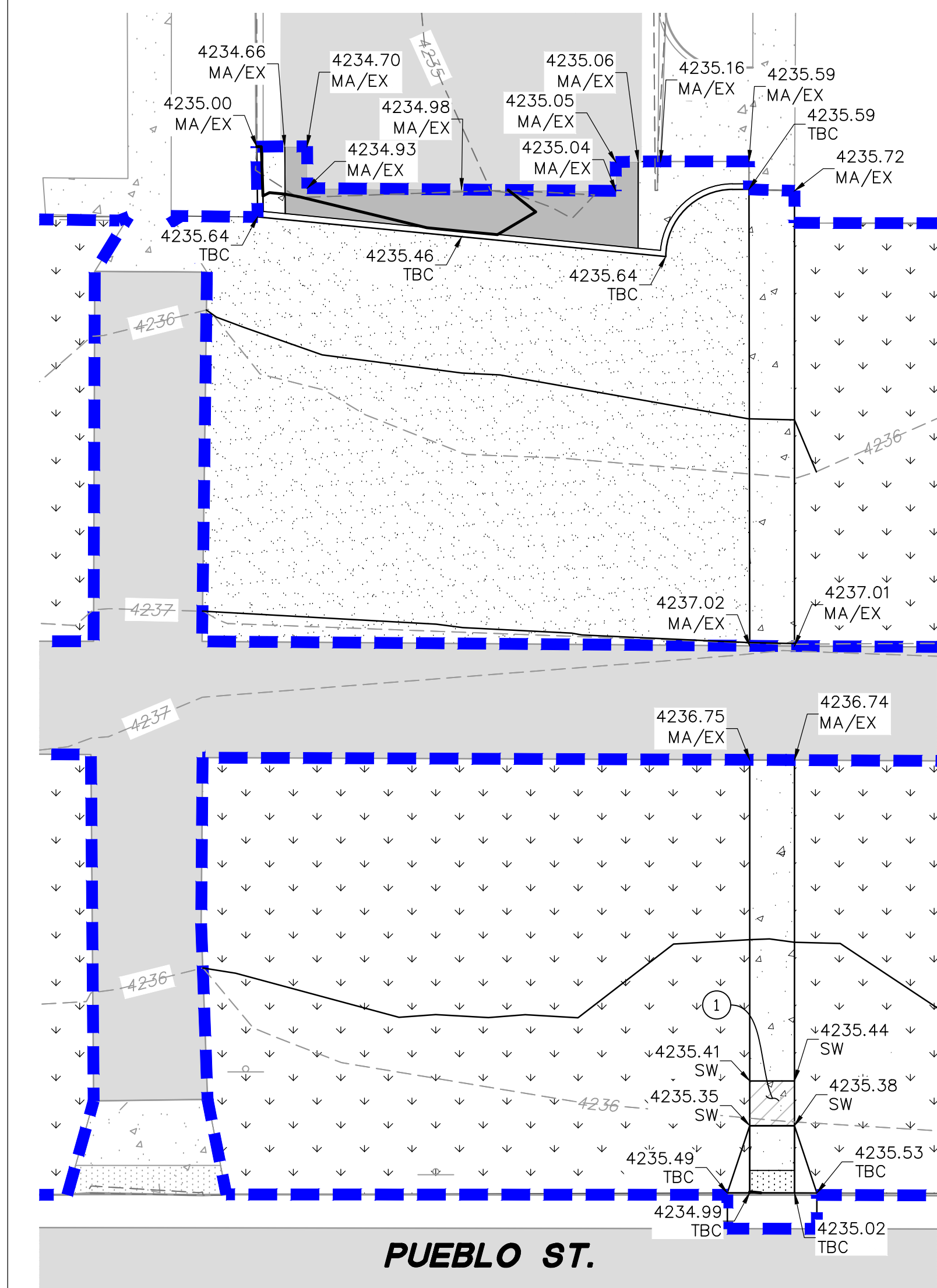
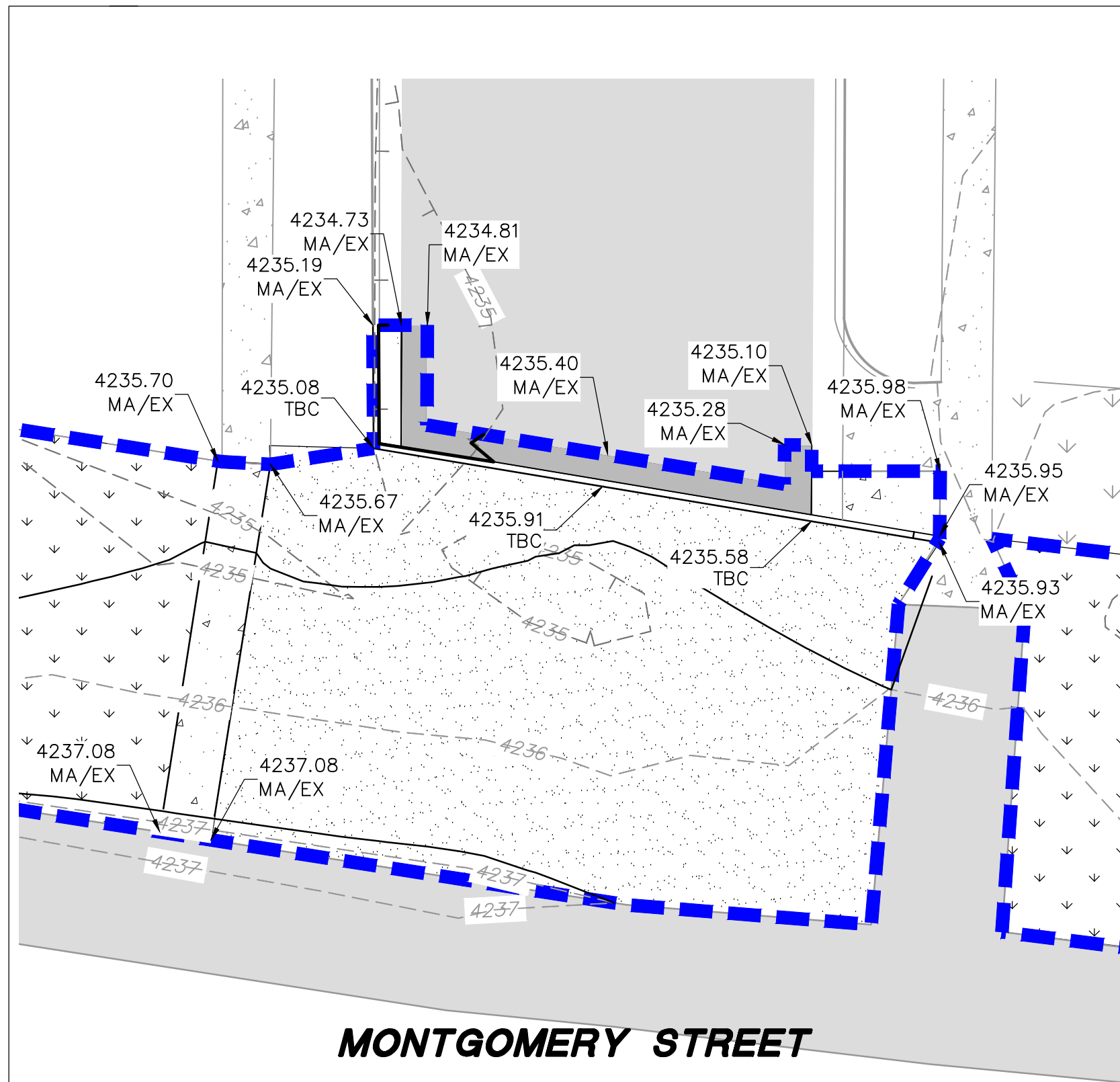
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MARK	DATE	DESCRIPTION

PREPARER #: 105616
 CONTRACT #: 300124
 PROJECT #: 240505
 FILE #:
 DRAWING FILE:
 DRAWN BY: XX
 CHECKED BY: XX
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 DATE: 02/12/2018

SHEET TITLE:
SITE AND HORIZONTAL CONTROL PLANS

SHEET IDENTIFIER:
CP203
 BINDING ORDER 8 OF 14



GRADING: GEOTECHNICAL NOTES/REQUIREMENTS:

ALL IMPORTED MATERIAL TO BE APPROVED IN WRITING BY GEOTECHNICAL ENGINEER.

ALL COMPACTION FOR INTERIOR AND EXTERIOR BACKFILL ADJACENT TO BUILDINGS TO BE VERIFIED IN WRITING BY GEOTECHNICAL ENGINEER.

GRADING GENERAL NOTES:

SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING THEM WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557 EXCEPT UNDER BUILDING FOUNDATIONS WHERE IT SHALL BE 95% MIN. OF MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED REGISTERED GEOTECHNICAL ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS & SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT.

CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING SOIL CONDITIONS.

THE CONTRACTOR IS TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL AND DUST SUPPRESSION FOR CONSTRUCTION OF THIS PROJECT. SPECIFIC INFORMATION SHOWN ON DRAWINGS C-600 SHALL BE USED IN COMBINATION WITH OTHER ACCEPTED LOCAL PRACTICES.

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 THE 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.

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ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES, DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.

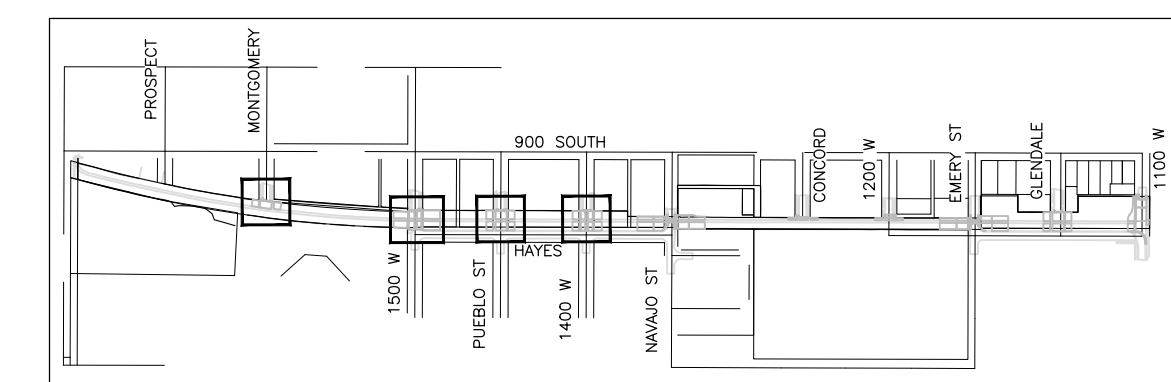
ALL CURB IS ASSUMED TO BE CATCH CURB UNLESS OTHERWISE SPECIFIED.

① HATCHED AREA INDICATES LANDING. SLOPE TO NOT EXCEED 2.00% MAXIMUM IN ANY DIRECTION.

ABBREVIATIONS:

- EX - EXISTING
- MA - MATCH
- SW - SIDEWALK
- TBC - TOP BACK OF CURB

KEY PLAN



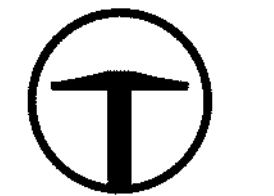
PREPARER:



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PREPARER CONSULTANTS:

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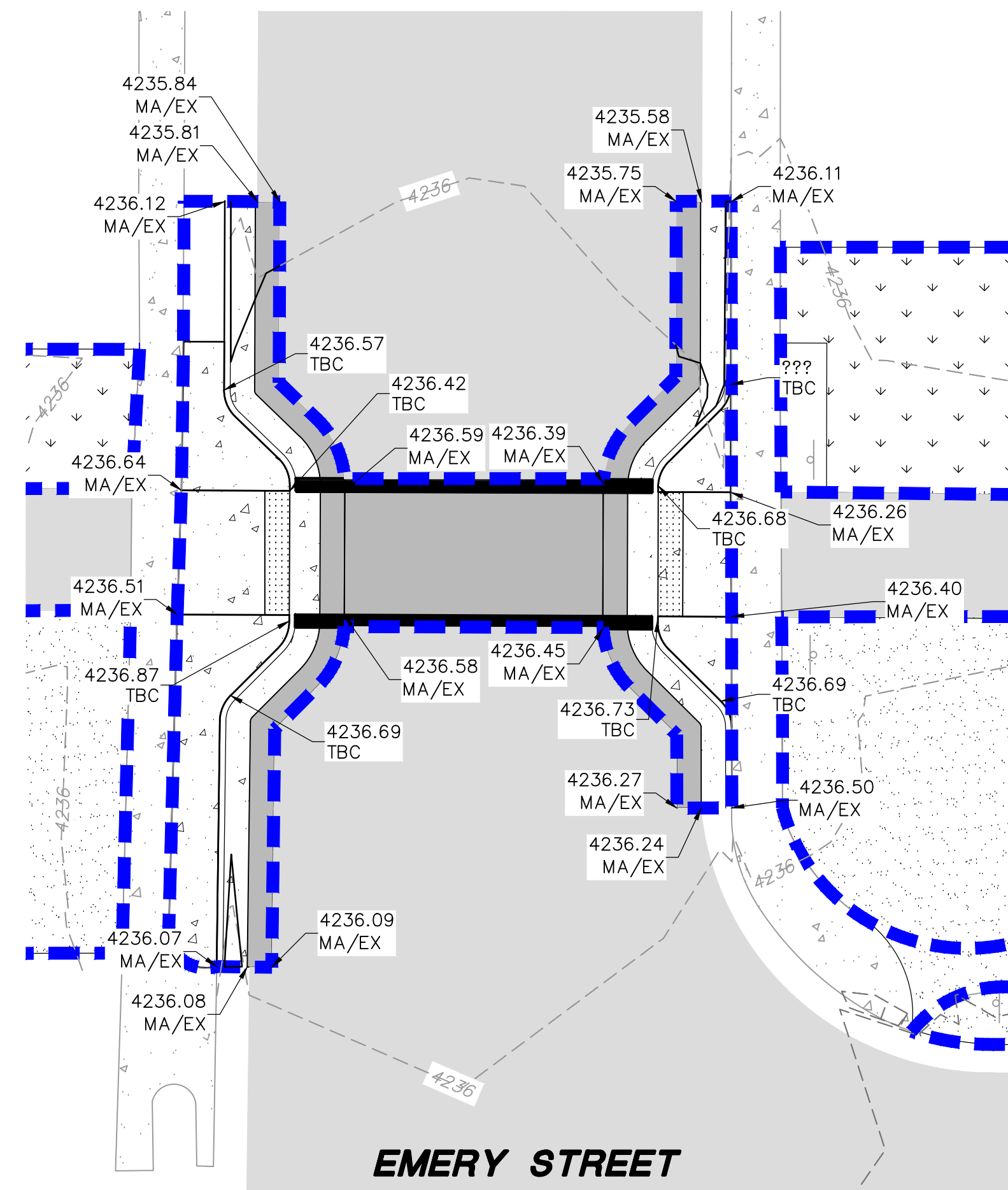
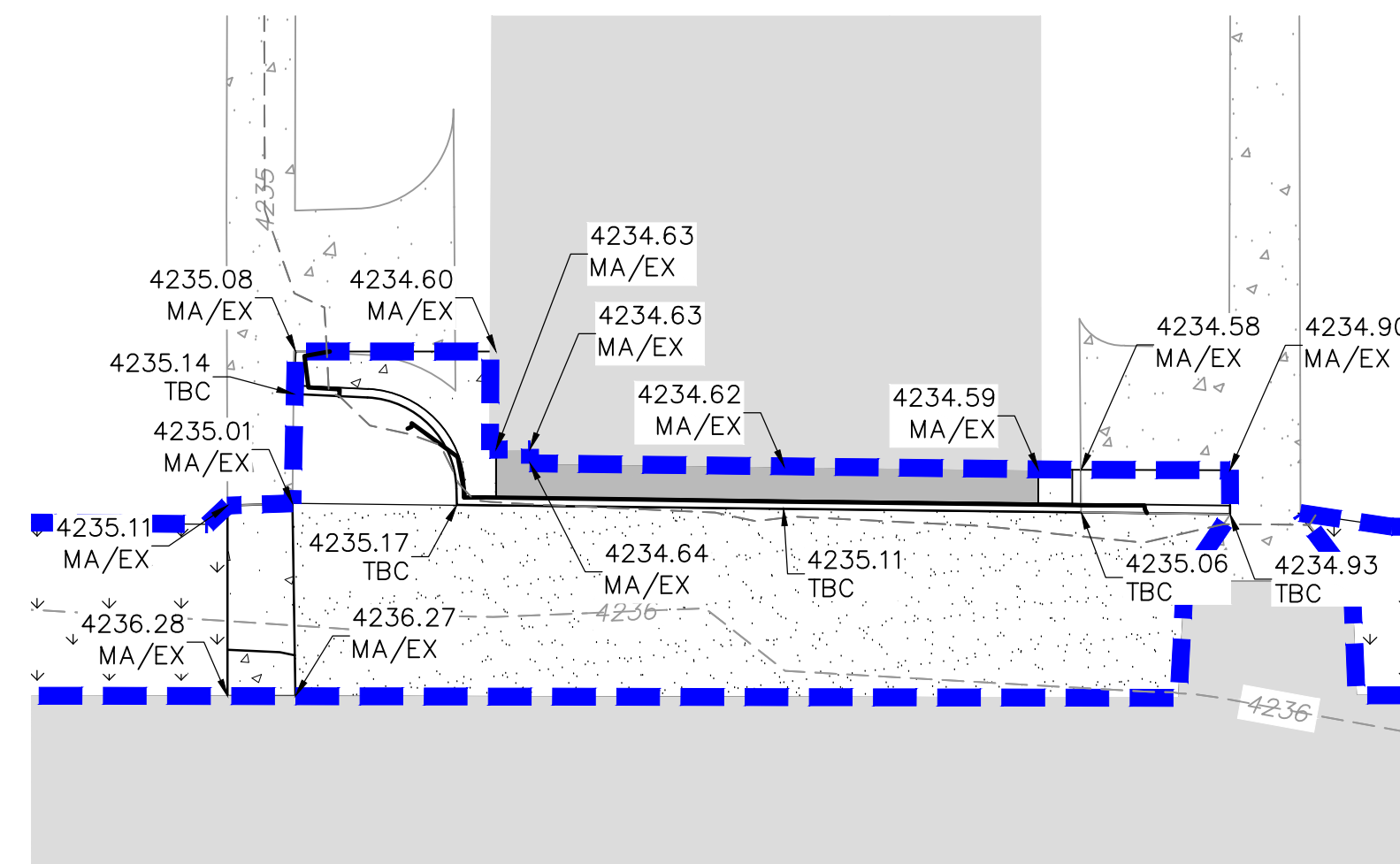
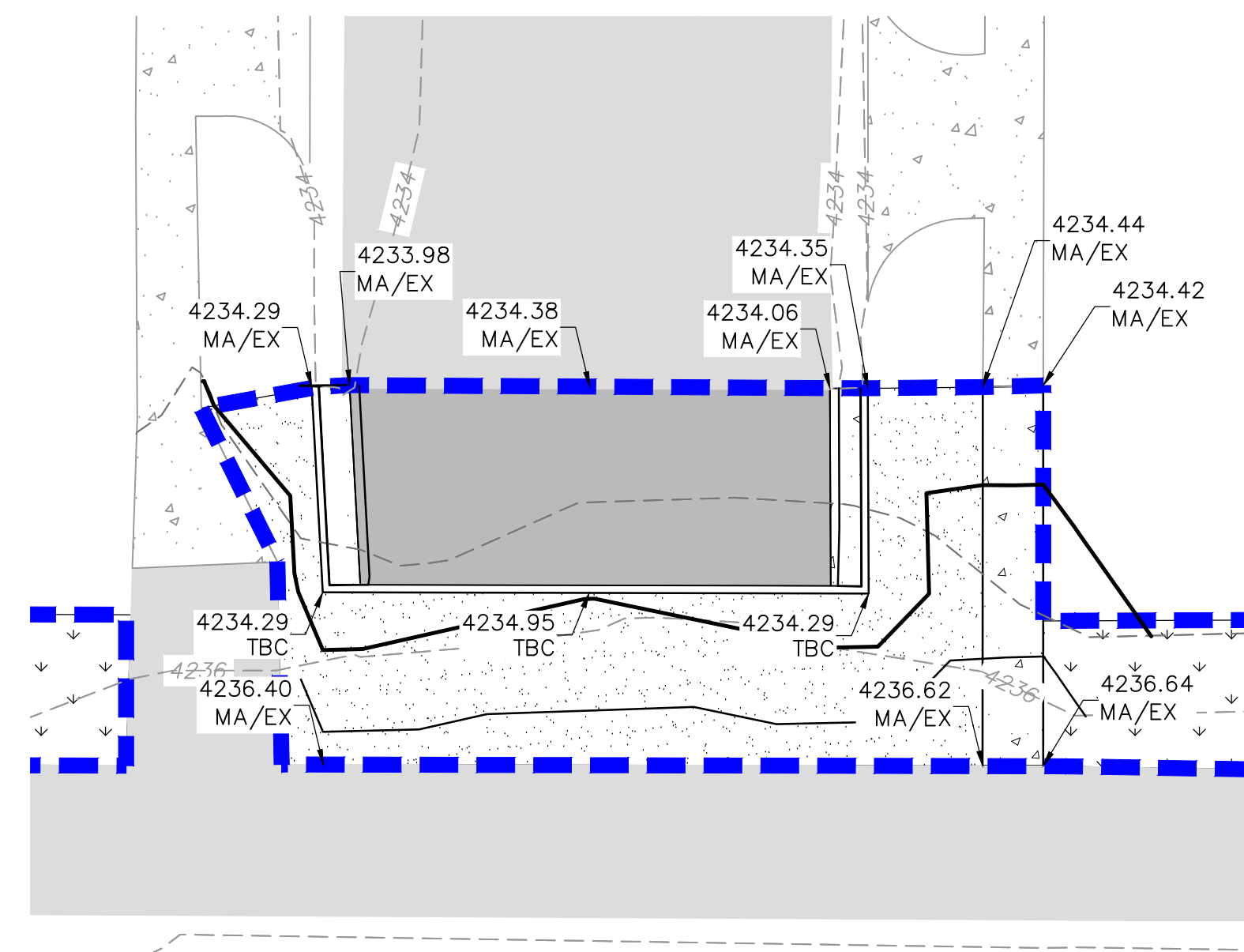
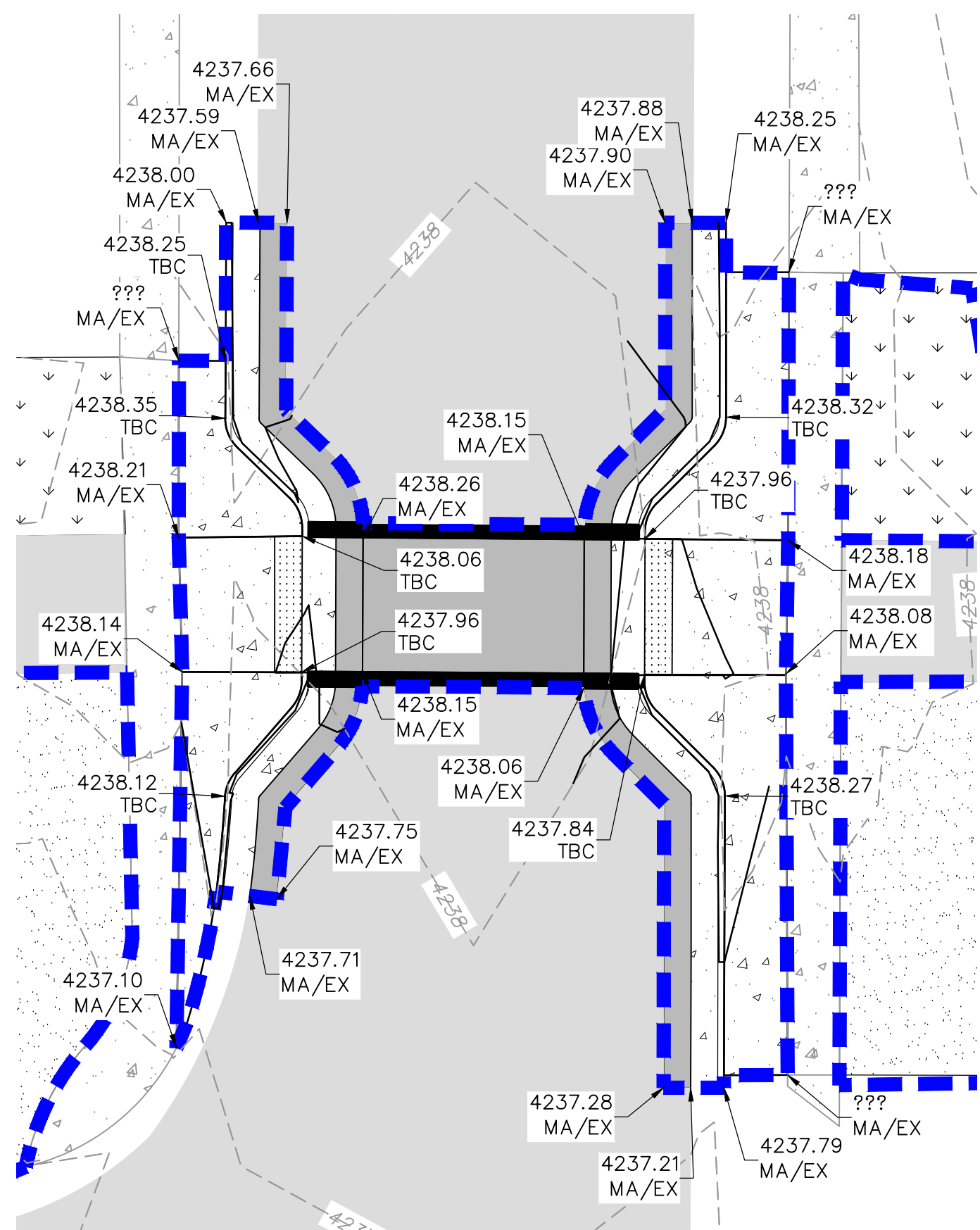
SHEET TITLE:

GRADING PLANS

SHEET IDENTIFIER:

GR301

BINDING ORDER 9 OF 14



GRADING: GEOTECHNICAL NOTES/REQUIREMENTS:

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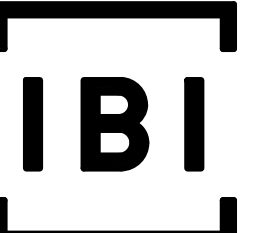
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- SW - SIDEWALK
- TBC - TOP BACK OF CURB

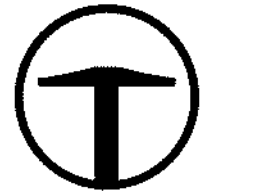
PREPARER:



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PREPARER CONSULTANTS:

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PROFESSIONAL SEAL:

INFORMATION ONLY - NOT FOR CONSTRUCTION

PROJECT IDENTIFICATION:

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MARK DATE DESCRIPTION

PREPARER #: 105616

CONTRACT #: 300124

PROJECT #: 240505

FILE #:

DRAWING FILE:

DRAWN BY: XX

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DATE: 02/12/2018

SHEET TITLE:

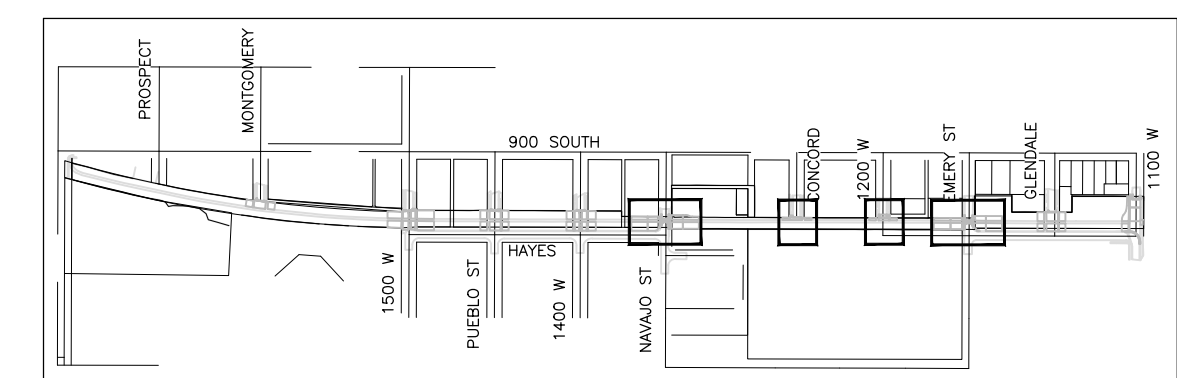
GRADING PLANS

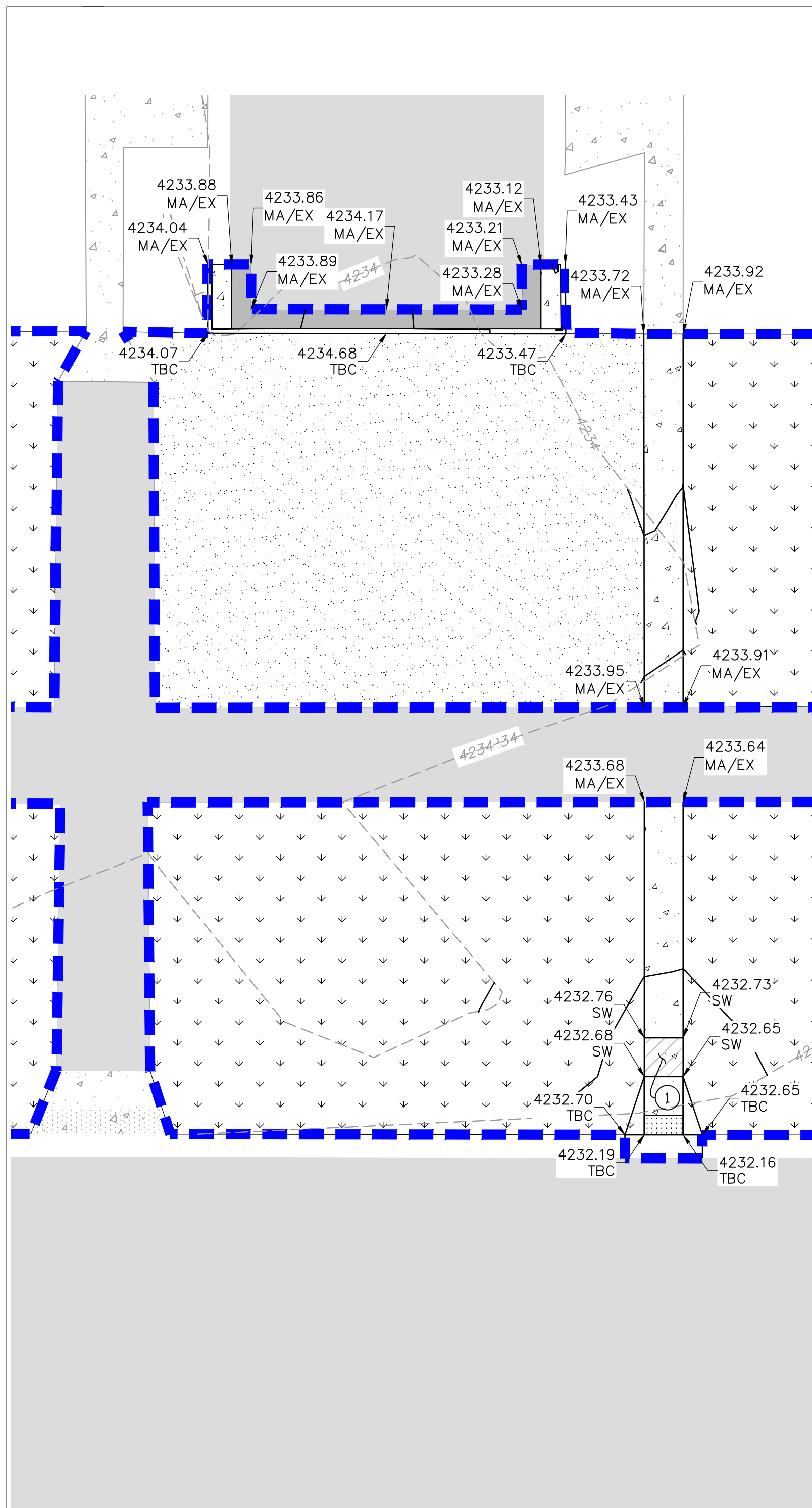
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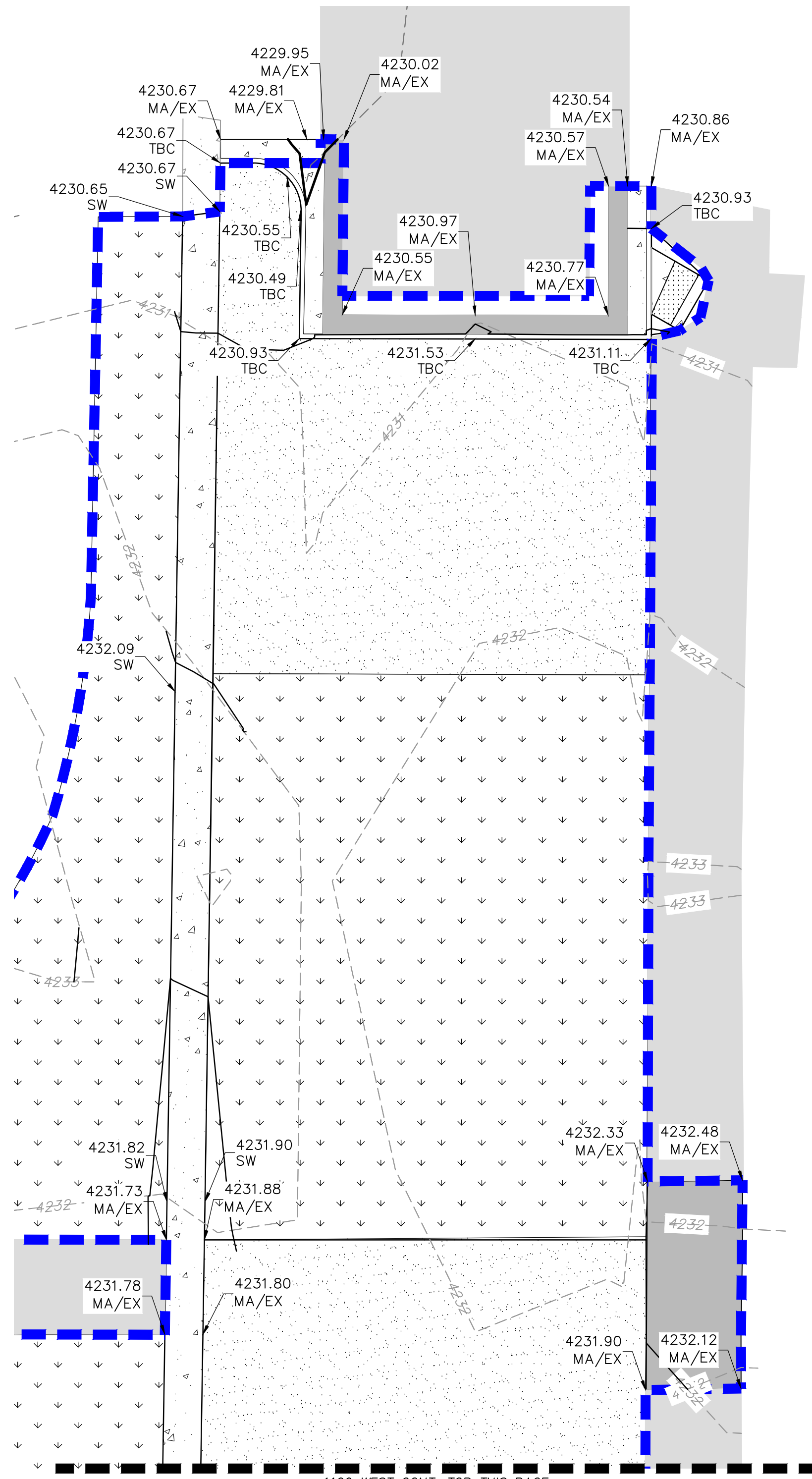
BINDING ORDER 10 OF 14

KEY PLAN

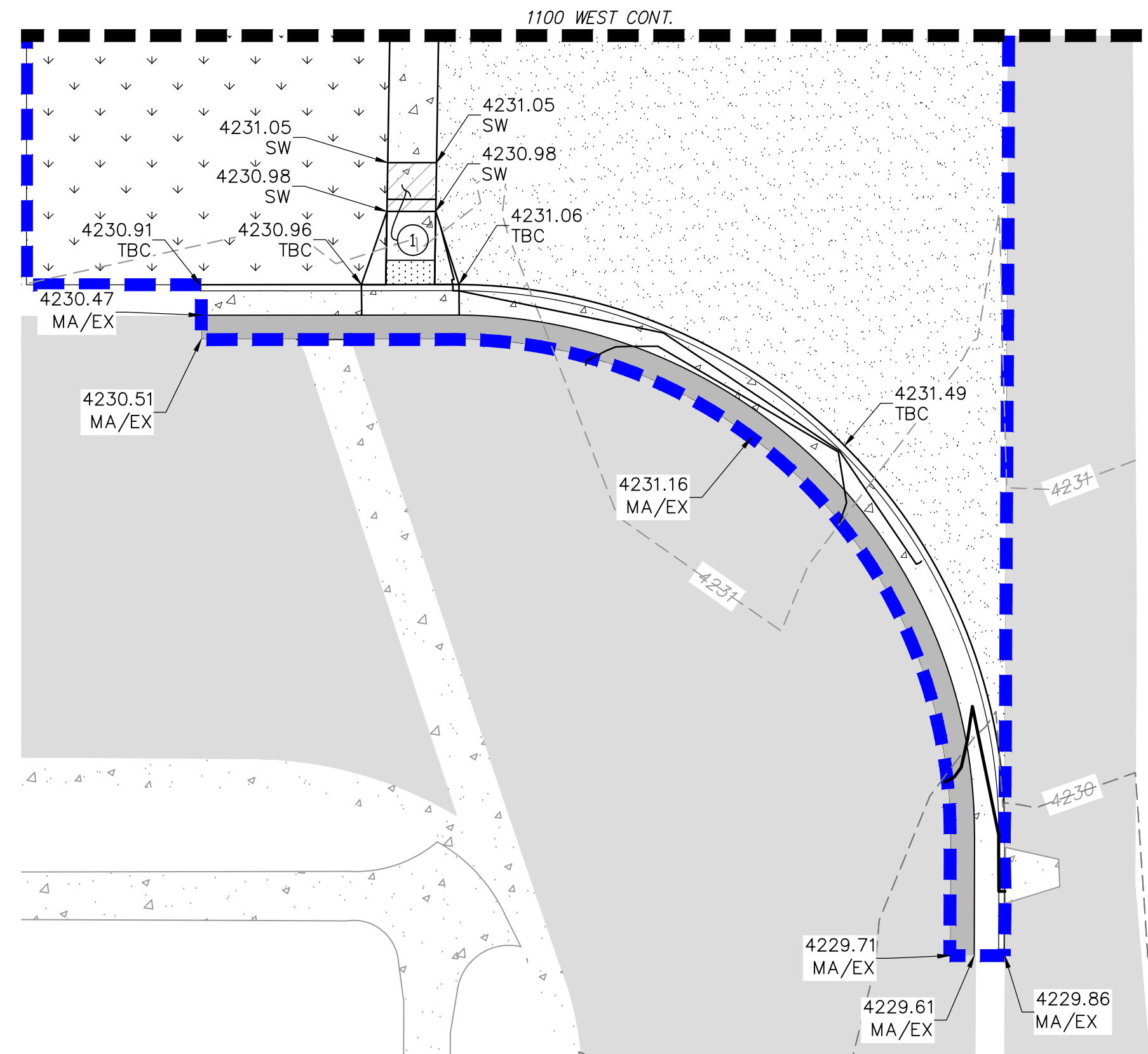




GLENDALE STREET



1100 WEST CONT. TOP THIS PAGE
1100 WEST (NORTH)



1100 WEST (SOUTH)

GRADING: GEOTECHNICAL NOTES/REQUIREMENTS:

ALL IMPORTED MATERIAL TO BE APPROVED IN WRITING BY GEOTECHNICAL ENGINEER.
ALL COMPACTION FOR INTERIOR AND EXTERIOR BACKFILL ADJACENT TO BUILDINGS TO BE VERIFIED IN WRITING BY GEOTECHNICAL ENGINEER.

ABBREVIATIONS:

- EX - EXISTING
- MA - MATCH
- SW - SIDEWALK
- TBC - TOP BACK OF CURB

GRADING GENERAL NOTES:

SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING THEM WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557 EXCEPT UNDER BUILDING FOUNDATIONS WHERE IT SHALL BE 95% MIN. OF MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED REGISTERED GEOTECHNICAL ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS & SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT.

CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING SOIL CONDITIONS.

THE CONTRACTOR IS TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL AND DUST SUPPRESSION FOR CONSTRUCTION OF THIS PROJECT. SPECIFIC INFORMATION SHOWN ON DRAWINGS C-600 SHALL BE USED IN COMBINATION WITH OTHER ACCEPTED LOCAL PRACTICES.

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 THE 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.

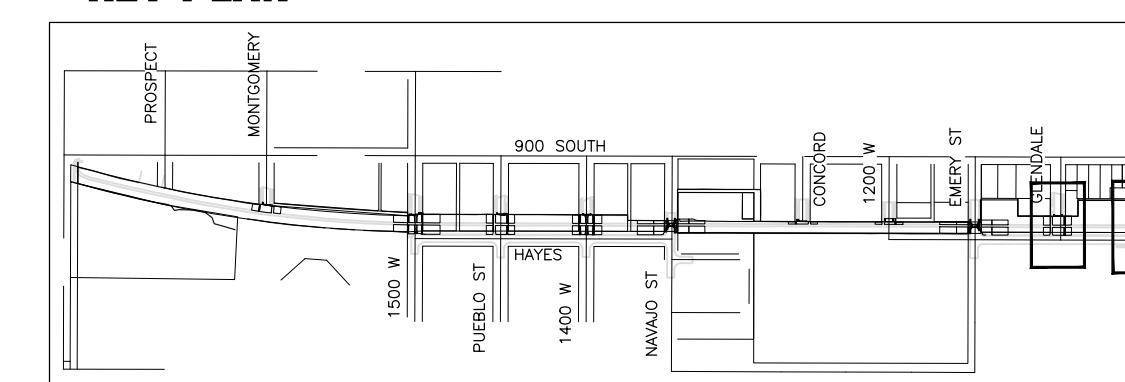
LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS TO VERIFY CONNECTION POINTS WITH EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN.

ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES, DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.

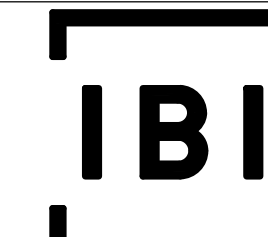
ALL CURB IS ASSUMED TO BE CATCH CURB UNLESS OTHERWISE SPECIFIED.

(1) HATCHED AREA INDICATES LANDING. SLOPE TO NOT EXCEED 2.00% MAXIMUM IN ANY DIRECTION.

KEY PLAN



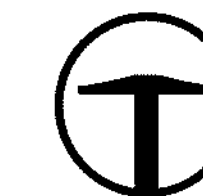
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MARK DATE DESCRIPTION

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CONTRACT #: 300124

PROJECT #: 240505

FILE #:

DRAWING FILE:

DRAWN BY: XX

CHECKED BY: XX

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DATE: 02/12/2018

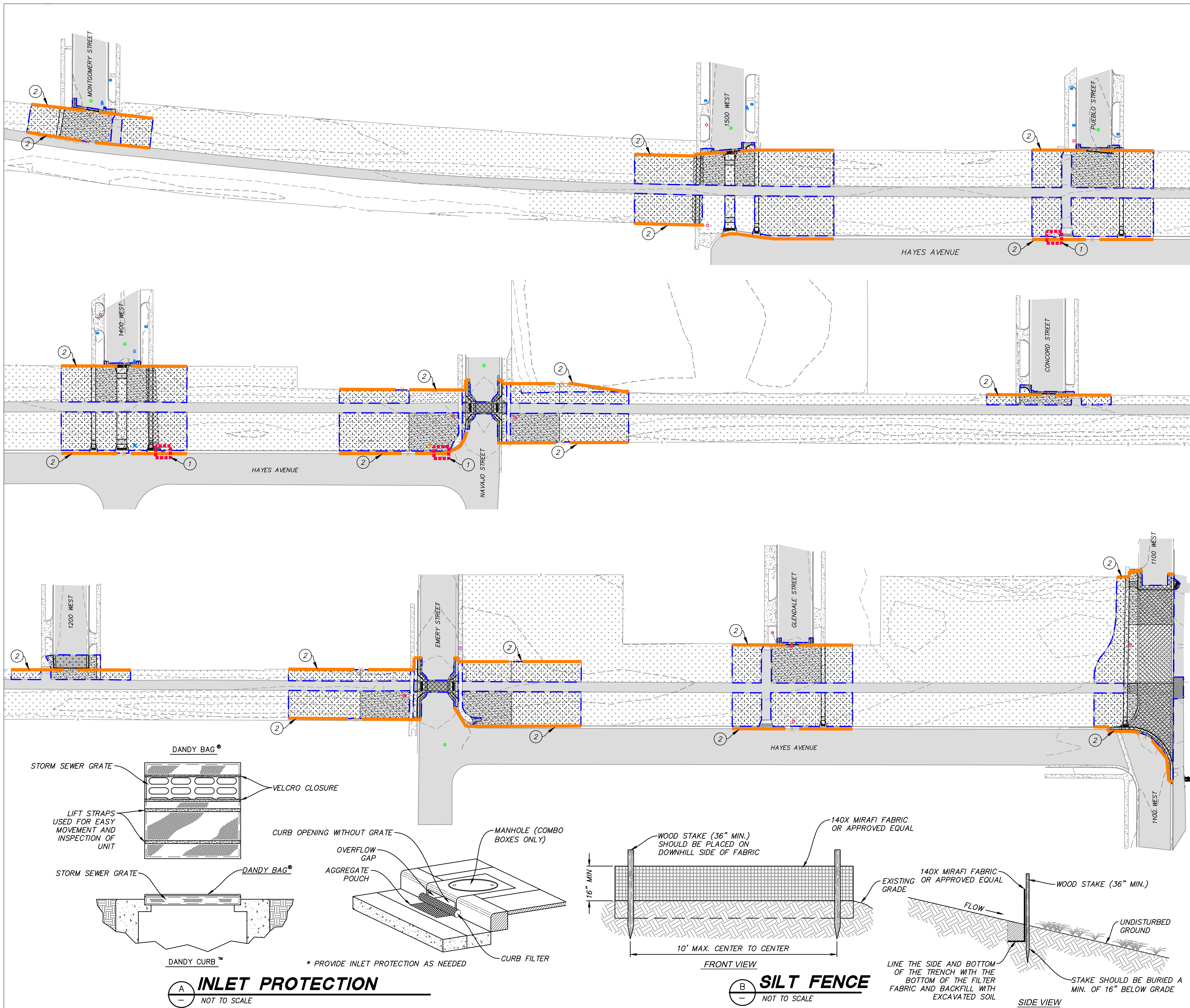
SHEET TITLE:

GRADING PLANS

SHEET IDENTIFIER:

GR303

BINDING ORDER 11 OF 14



GENERAL NOTES:
 THE CONTRACTOR TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. SPECIFIC DETAILS SHOWN ON BOTTOM THIS SHEET SHALL BE USED IN COMBINATION WITH OTHER ACCEPTED LOCAL PRACTICES.

ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE LOCAL AGENCY'S EROSION CONTROL STANDARDS AND SPECIFICATIONS AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE AGENCY HAVING JURISDICTION. ALSO INSPECTORS WILL HAVE THE RIGHT TO CHANGE THE FACILITIES AS NEEDED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATION OF ALL EXISTING UTILITIES. IF CONFLICTS OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.

THE CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL.

WHEN GRADING OPERATIONS ARE COMPLETED AND THE DISTURBED GROUND IS LEFT "OPEN" FOR 30 DAYS OR MORE, THE AREA SHALL BE FURROWED PARALLEL TO THE CONTOURS.

THE CONTRACTOR SHALL MODIFY EROSION CONTROL MEASURES TO ACCOMMODATE PROJECT PLANNING.

ALL BEST MANAGEMENT PRACTICES (BMP'S) SHOWN ON THIS PLAN MUST BE MAINTAINED AT ALL TIMES.

ALL ACCESS TO PROPERTY WILL BE FROM PUBLIC RIGHT-OF-WAYS.

MAINTENANCE:
 THE OWNER'S RESPONSIBILITY SHALL INCLUDE MAKING ROUTINE CHECKS ON ALL EROSION CONTROL MEASURES TO DETERMINE IF REPAIR OR SEDIMENT REMOVAL IS NECESSARY. CHECKS SHALL BE MADE BASED ON CONDITIONS THAT MAY ARISE IN THE FIELD OR ADDITIONAL CONTROL AS DEEMED NECESSARY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF BARRIER.

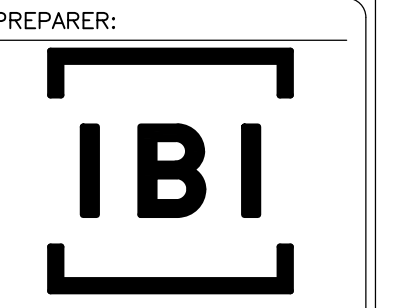
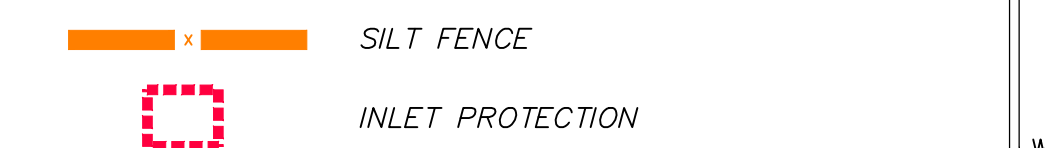
NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF FILTER SOCK SHALL BE ACCOMPLISHED PROMPTLY.

THE REPAIR OF DAMAGED FILTER SOCKS, END RUNS, AND UNDERCUTTING BENEATH FILTER SOCKS SHALL BE PERFORMED IMMEDIATELY UPON DETECTION.

FILTER SOCK BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

SCOPE OF WORK:
 PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- ① INLET PROTECTION AROUND EXISTING OR NEW STORM DRAIN CATCH BASINS OR INLETS. SEE DETAIL A THIS SHEET.
- ② SILT FENCE. SEE DETAIL B THIS SHEET.



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 CIVIL ENGINEER:



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MARK	DATE	DESCRIPTION

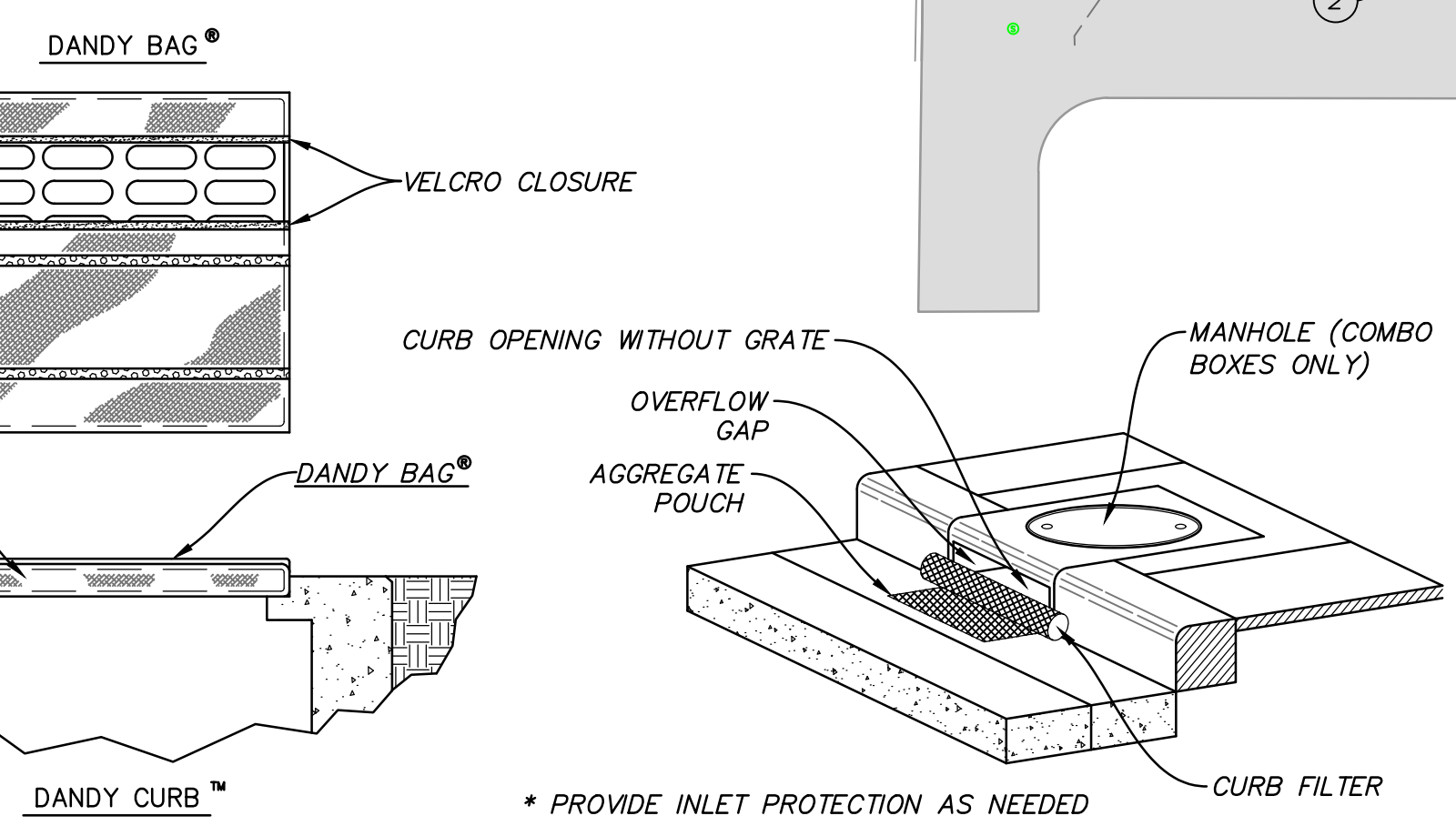
PREPARER #: 105616
 CONTRACT #: 300124
 PROJECT #: 240505
 FILE #:
 DRAWING FILE:
 DRAWN BY: XX
 CHECKED BY: XX
 COPYRIGHT:
 DATE: 02/12/2018

SHEET TITLE:

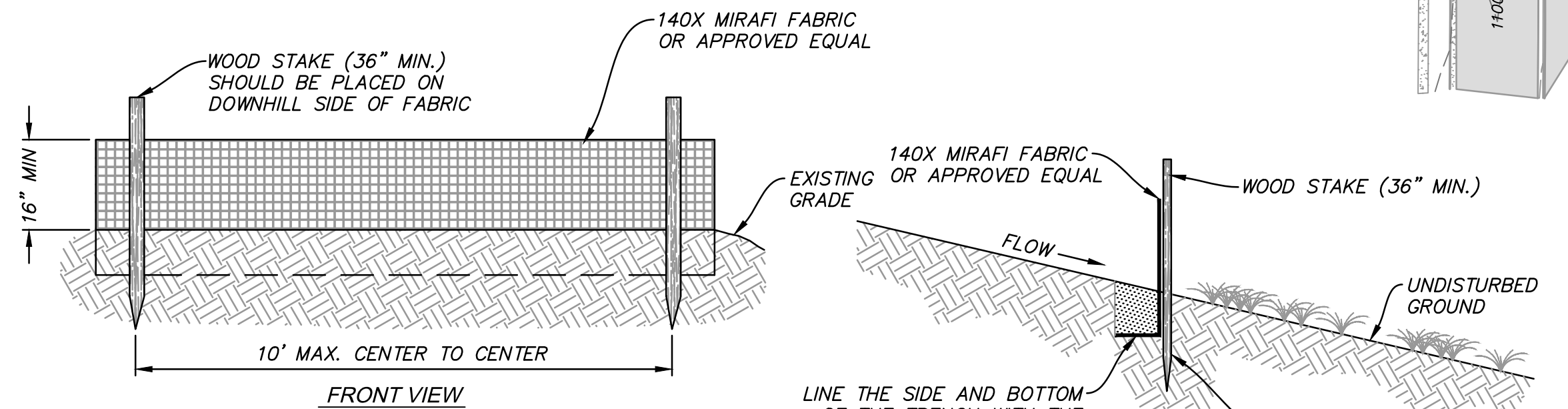
EROSION CONTROL PLANS

SHEET IDENTIFIER:
EC401

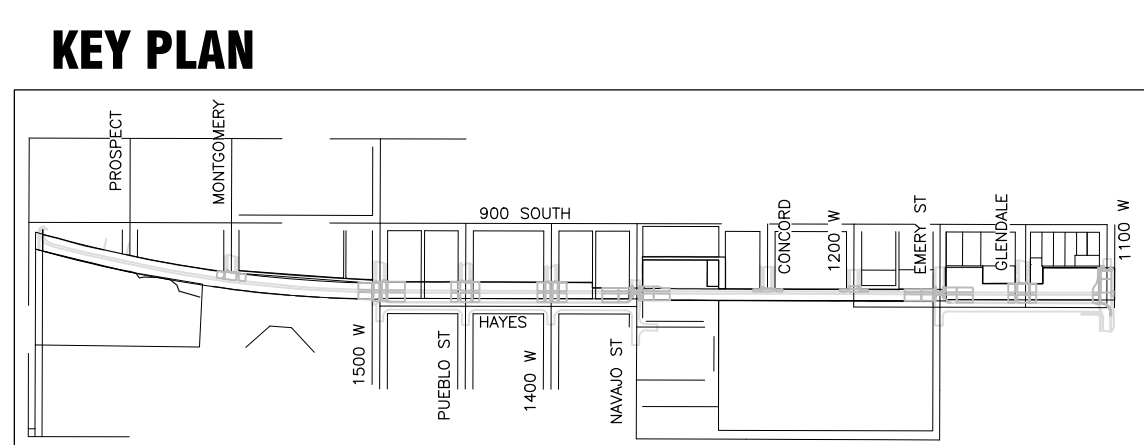
BINDING 12 OF 14



A INLET PROTECTION
 NOT TO SCALE

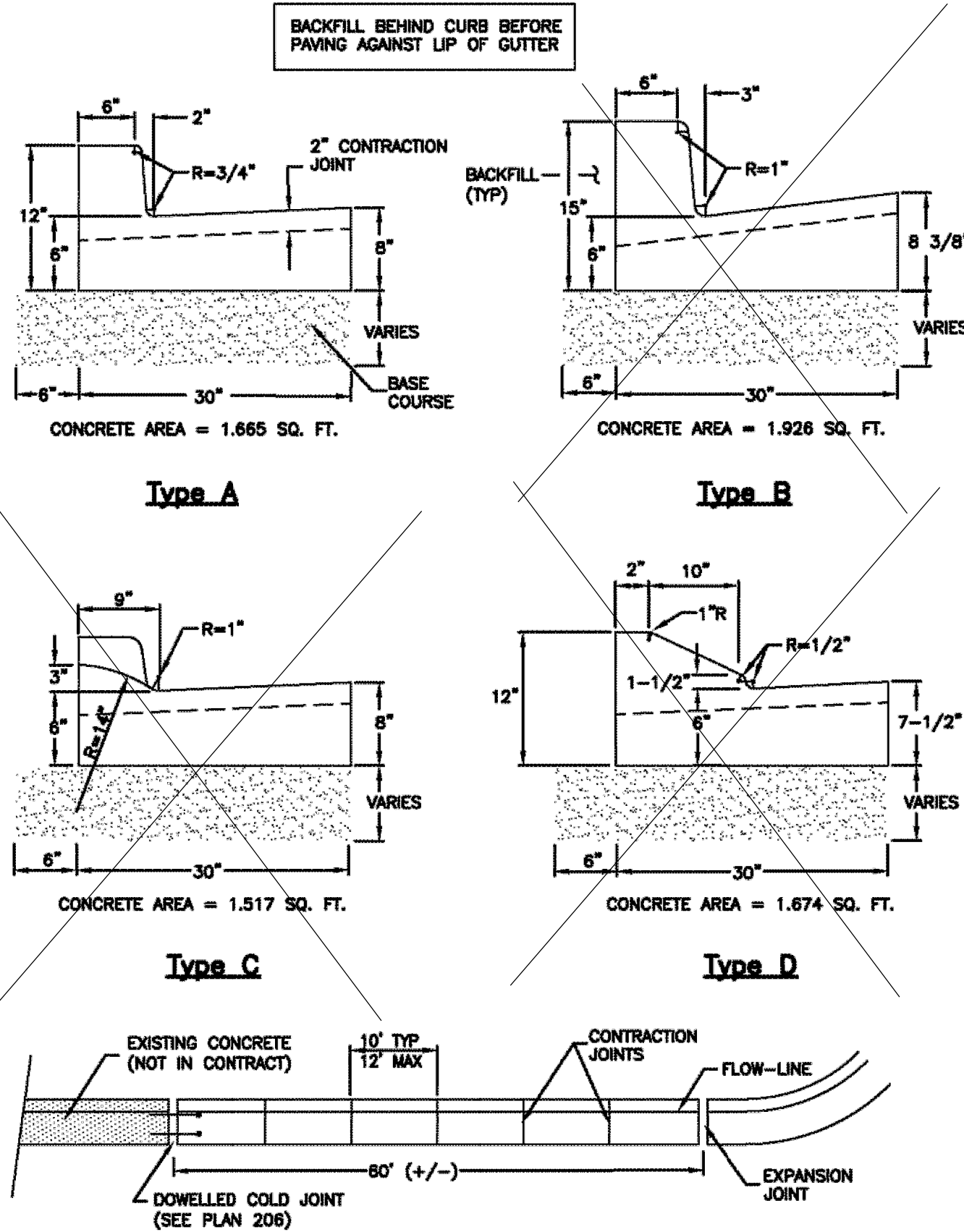


B SILT FENCE
 NOT TO SCALE



Curb and gutter

- GENERAL**
 - A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
 - B. Additional requirements are specified in APWA Section 32 16 13.
- PRODUCTS**
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
 - C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
 - D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
- EXECUTION**
 - A. Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flow-line grade is 0.5 percent (s=0.005) or greater. If slope is less, provide 8-inches. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - B. Concrete Placement: APWA Section 03 30 10.
 - 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install at the start or end of a street intersection curb return. Expansion joints are not required in concrete placement using slip-form construction.
 - 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Match joint location in adjacent Portland-cement concrete roadway pavement.
 - 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
 - C. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.

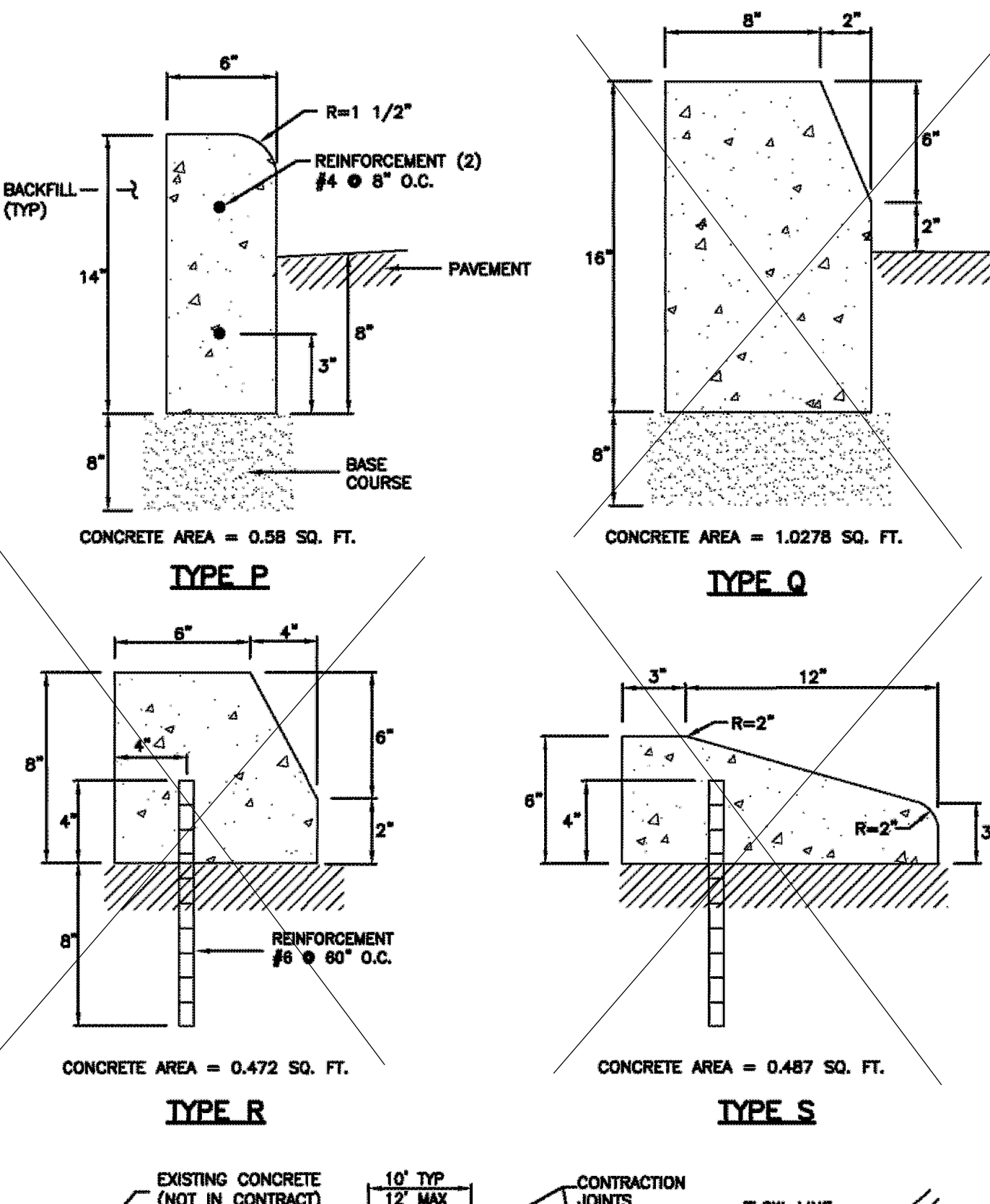


JOINT DETAIL
CURB AND GUTTER
APWA STANDARD PLAN 205

JOINT SPACING DETAIL
CURB
APWA STANDARD PLAN 209

Curbs

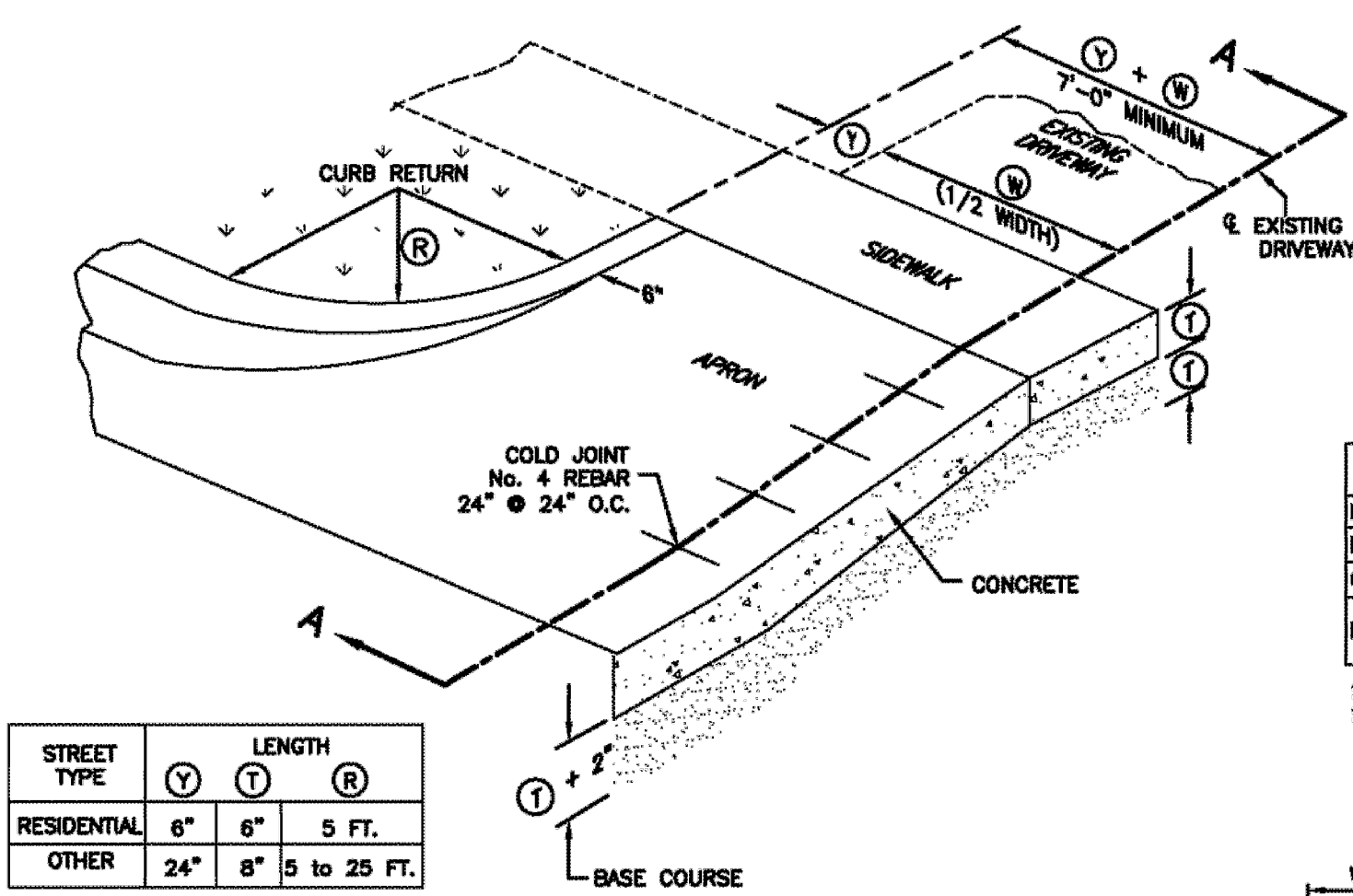
- GENERAL**
 - A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
 - B. Additional requirements are specified in APWA Section 32 16 13.
- PRODUCTS**
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
 - C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
 - D. Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A 615.
 - E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
- EXECUTION**
 - A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - B. Concrete Placement: APWA Section 03 30 10.
 - 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install at the start or end of a street intersection curb return. Expansion joints are not required in concrete placement using slip-form construction.
 - 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Match joint location in adjacent Portland-cement concrete roadway pavement.
 - 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
 - C. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.



JOINT SPACING DETAIL
CURB
APWA STANDARD PLAN 209

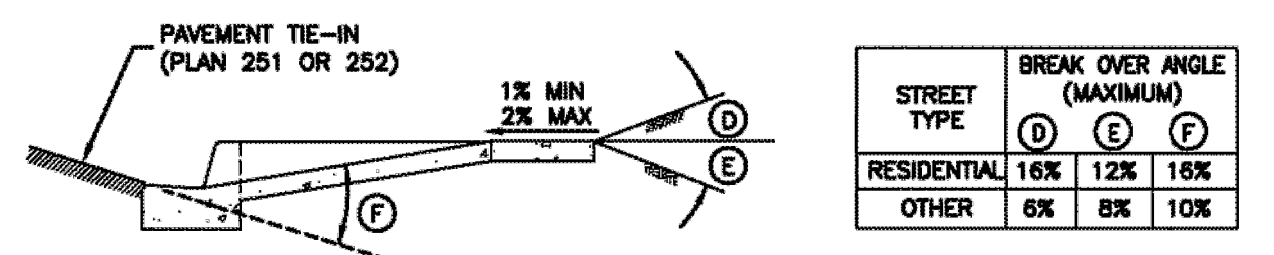
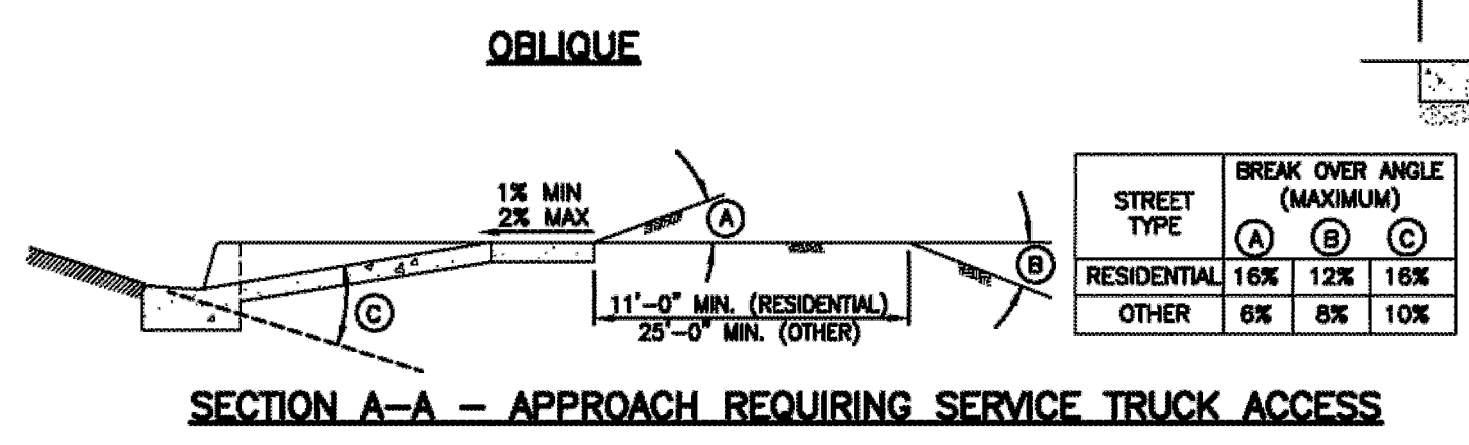
Open driveway approach

- GENERAL**
 - A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
 - B. Field Changes to Slope Requirements:
 - 1) Grades may have a 6 percent change in slope over a 11 feet wheel base run for both crest or sag vertical curves.
 - 2) Where heavy truck use and fire truck access applies, or to improve design speed, design grades should be cut in half.
 - 3) Specific uses or site conditions may require profile design submittal for review and acceptance.
 - C. Additional requirements are specified in APWA Section 32 16 13.
- PRODUCTS**
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
 - C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
 - D. Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A 615.
 - E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
- EXECUTION**
 - A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - B. Reinforcement: Not required if driveway apron is constructed without a cold joint.
 - C. Concrete Placement: APWA Section 03 30 10.
 - 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface.
 - 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Maximum length to width ratio for non-square panels is 1.5 to 1. Maximum panel length (in feet) is 1.5 times the slab thickness (in inches).
 - 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
 - D. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.



STREET TYPE	V	T	R
RESIDENTIAL	6"	6"	5 FT.
OTHER	24"	8"	5 to 25 FT.

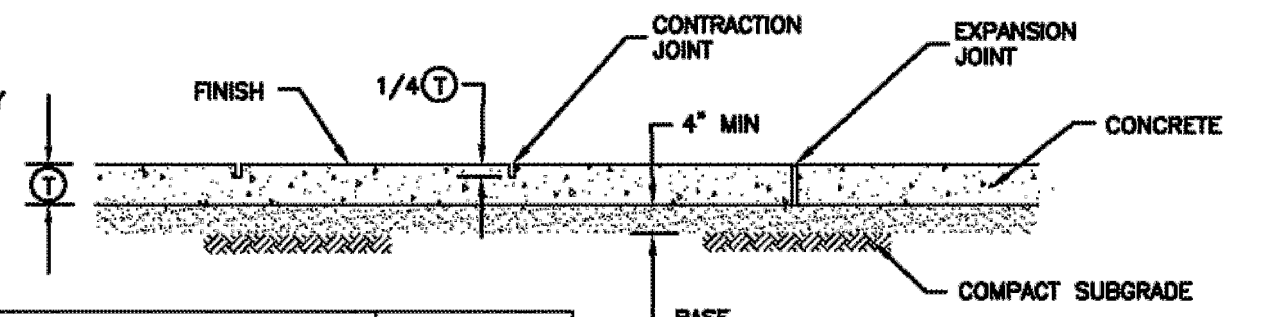
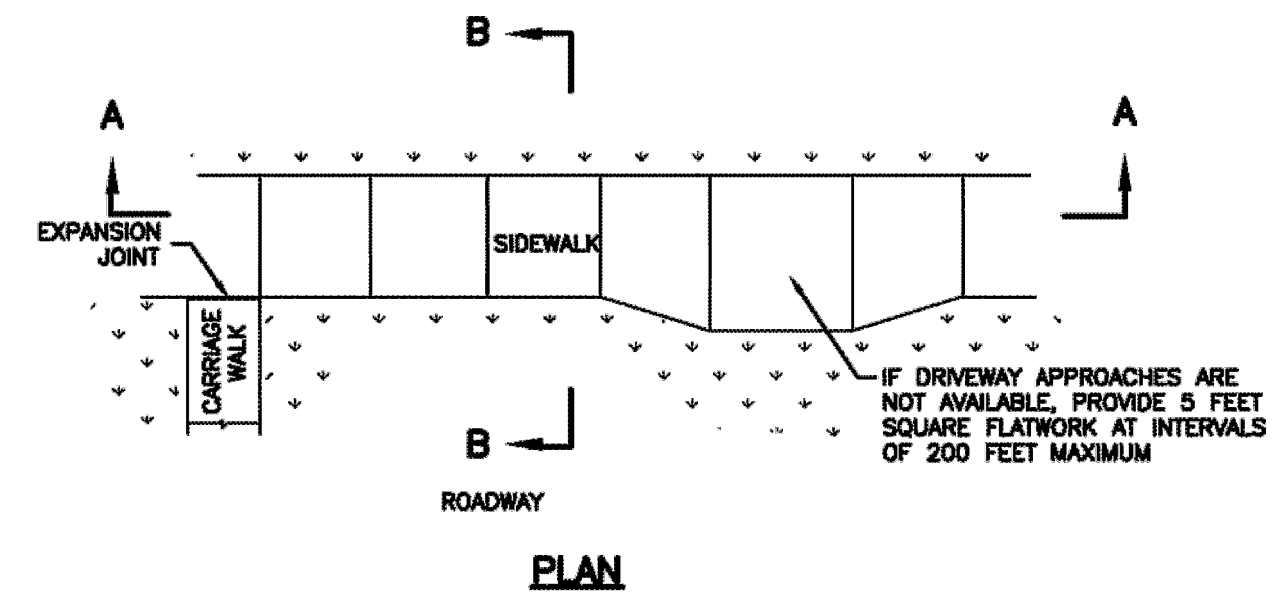
STREET TYPE	①
RESIDENTIAL (WITH PARK STRIP)	4"
RESIDENTIAL (NO PARK STRIP)	6"
OTHER	8"
REPLACING EXISTING SIDEWALK	MATCH EXISTING (4" MIN.)



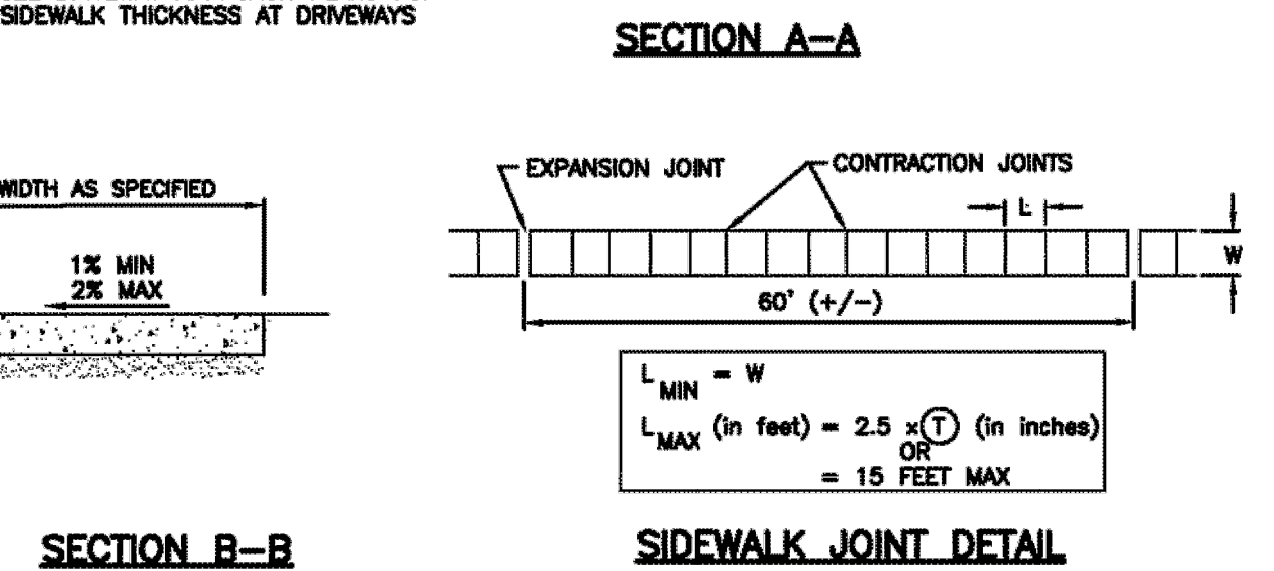
SECTION A-A - TYPICAL DRIVEWAY APPROACH
APWA STANDARD PLAN 225

Sidewalk

- GENERAL**
 - A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
 - B. Additional requirements are specified in APWA Section 32 16 13.
- PRODUCTS**
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
 - C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
 - D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
- EXECUTION**
 - A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - B. Concrete Placement: APWA Section 03 30 10.
 - 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface.
 - 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Maximum length to width ratio for non-square panels is 1.5 to 1. Maximum panel length (in feet) is 1.5 times the slab thickness (in inches).
 - 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.

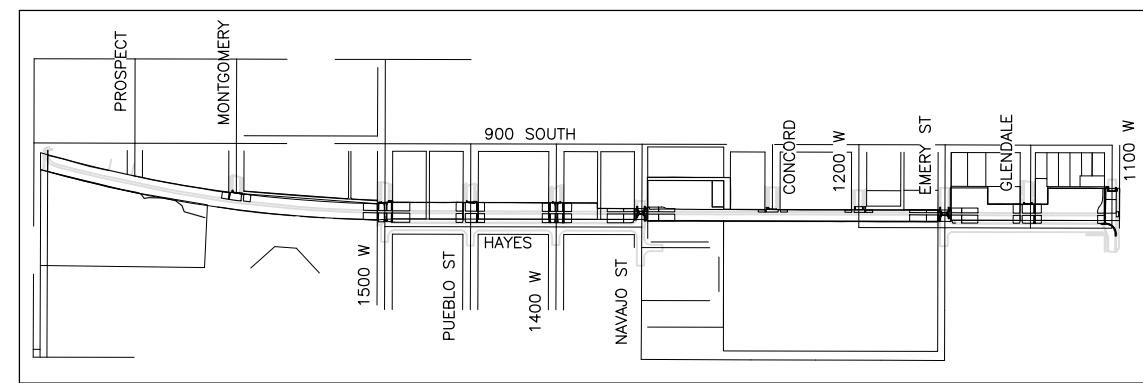


STREET TYPE	①
RESIDENTIAL (WITH PARK STRIP)	4"
RESIDENTIAL (NO PARK STRIP)	6"
OTHER	8"
REPLACING EXISTING SIDEWALK	MATCH EXISTING (4" MIN.)

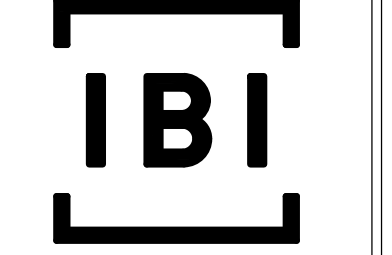


SECTION B-B
SIDEWALK JOINT DETAIL
APWA STANDARD PLAN 231

KEY PLAN



PREPARER:



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CIVIL DETAILS

SHEET IDENTIFIER:

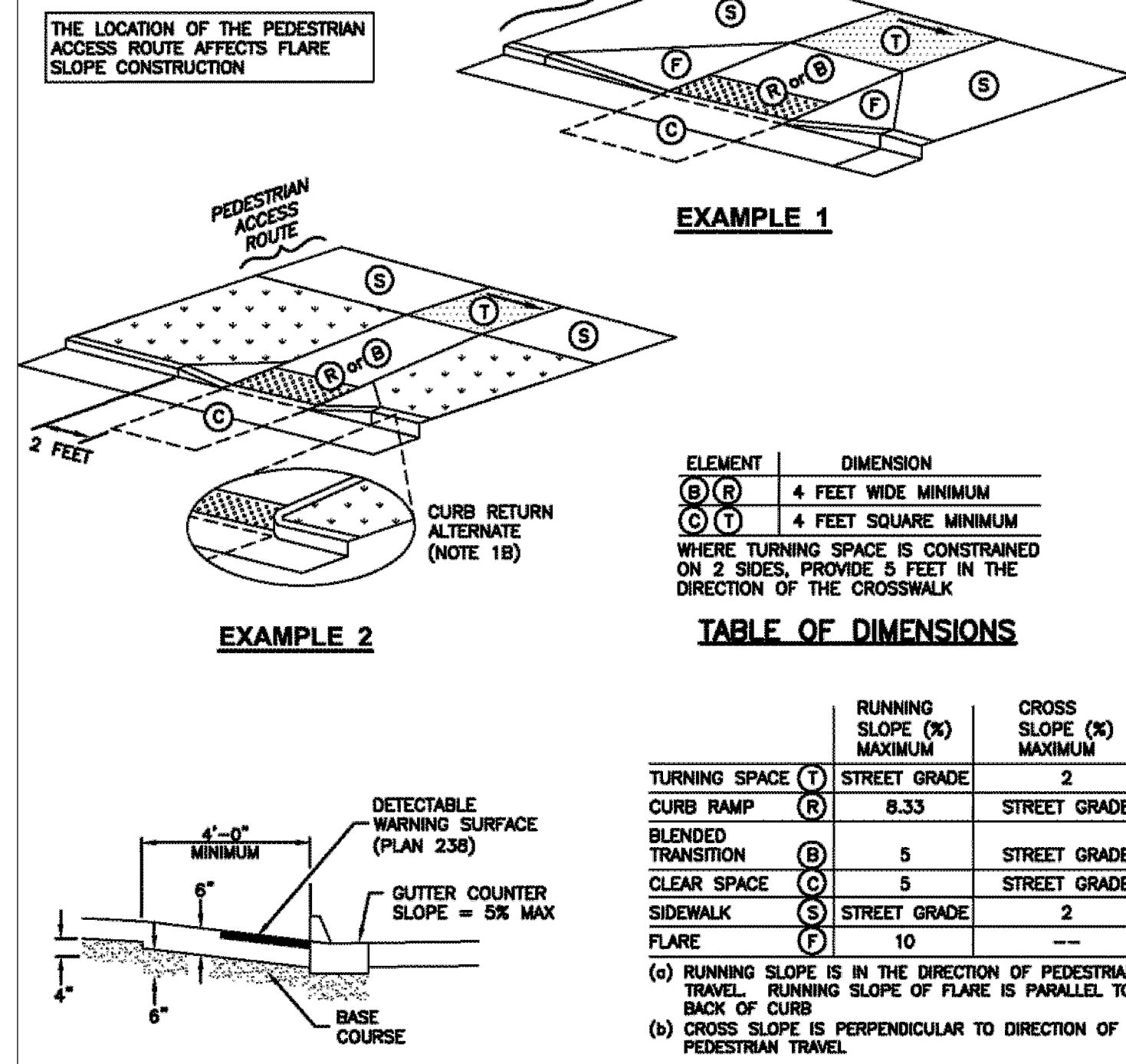
DT501

BINDING ORDER 13 OF 14

Midblock curb cut assembly

- GENERAL**
 - Where existing elements or spaces are altered to receive an assembly; slopes and dimensions shall comply with slopes and dimensions shown on the drawing, or to the maximum extent feasible permitted by the ENGINEER. Final configuration of the assembly may be different than shown.
 - Installation of flares or curb returns is ENGINEER's choice.
 - Definitions and supplemental requirements are specified in APWA Section 32 16 14.
- PRODUCTS**
 - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
 - Detectable Warning Surface: Paver, ribbed composite panel, or tile. Provide a color that contrasts with adjacent walking surface, either light-on-dark or dark-on-light. ENGINEER to select type and color unless indicated elsewhere.
 - Concrete: Class 4000, APWA Section 03 30 04.
 - Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
- EXECUTION**
 - Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - Curb Modifications:
 - The sloped surface created to accommodate a flare area shall be perpendicular to the back of curb.
 - No grade break shall exist between the flow-line and the foot of the curb ramp or blended transition. Length of the curb modification abutting the curb ramp or transition is 4 feet minimum.
 - Curb Ramp: Length not required to exceed 15 feet. Grade breaks are perpendicular to the direction of ramp run and are not permitted on the ramp or turning space surface. Sides are parallel to each other and perpendicular to the ends.
 - Concrete Placement: APWA Section 03 30 10.
 - Maximum length to width ratio for rectangular panel joints is 1.5 to 1. Joint spacing measured in feet not to exceed twice slab thickness measured in inches or a maximum of 15 feet.
 - Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install contraction joints vertical, 1/8-inch wide, and 1/4 of the depth of the concrete flatwork.
 - Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
 - Clear Space: No trip hazards in the clear space.

TURNING SPACE AT SIDEWALK LEVEL



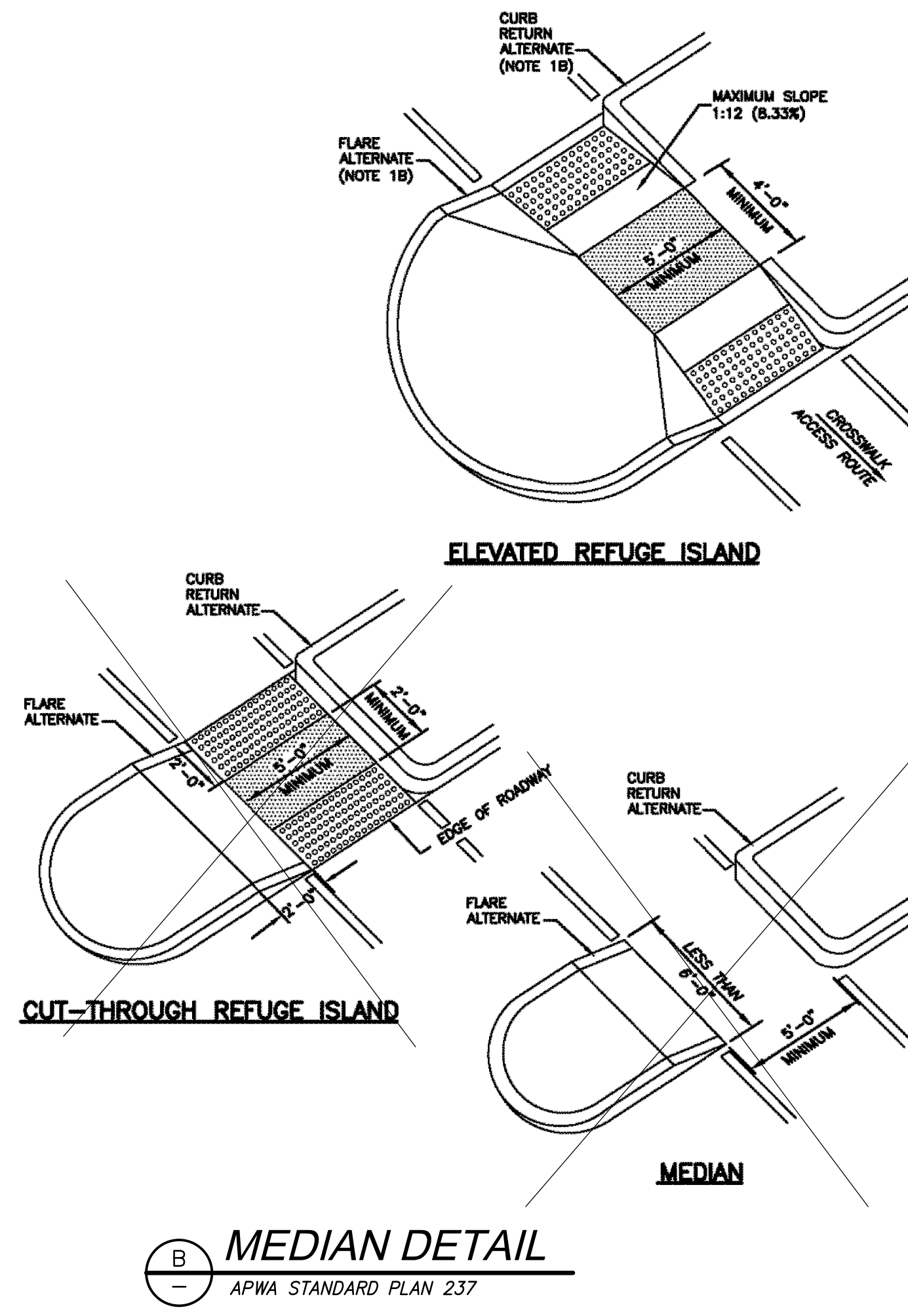
MATERIALS

SLOPE TABLE

(A) CURB CUT
APWA STANDARD PLAN 236

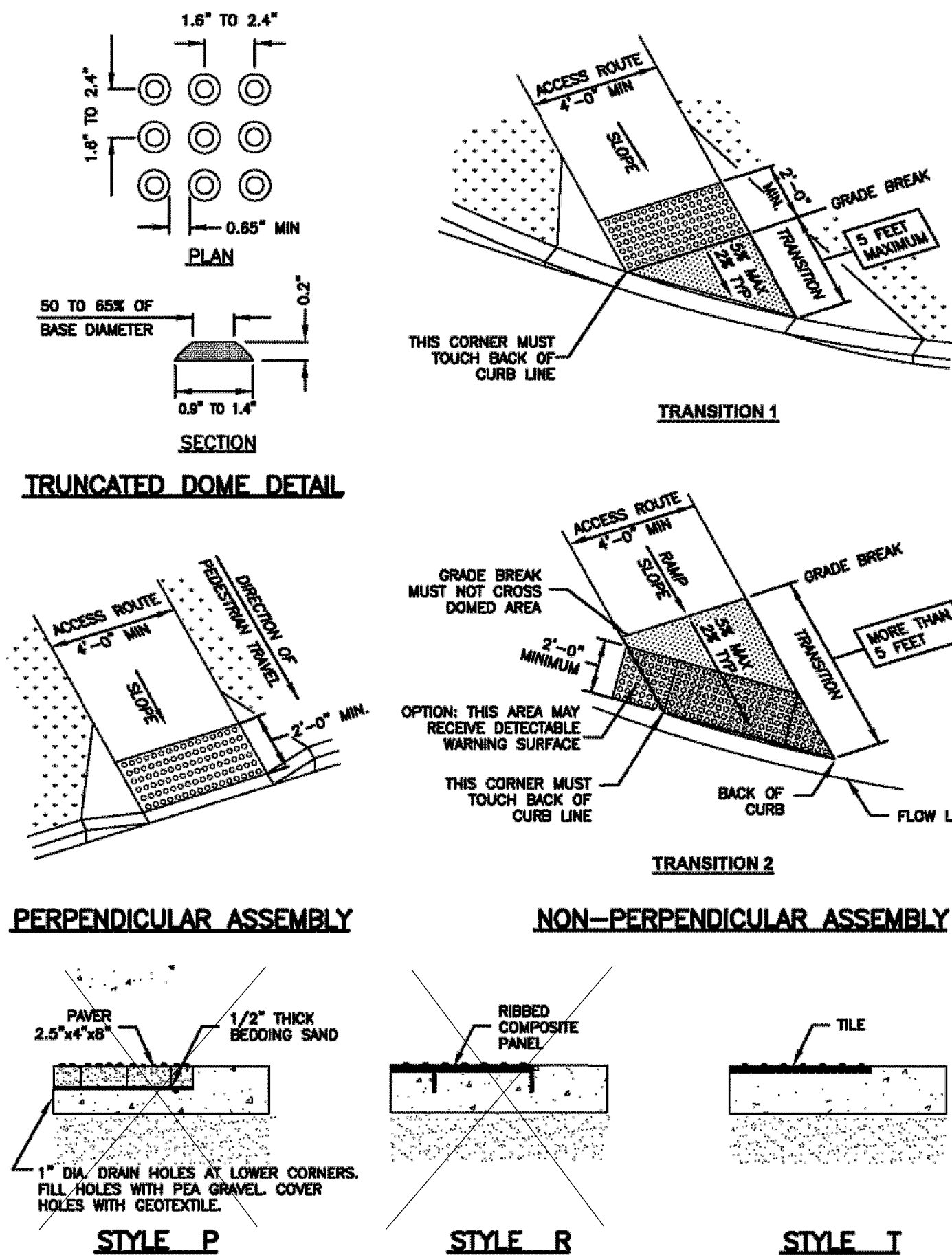
Islands and median

- GENERAL**
 - Access through islands and medians can add difficulty to the crossing for some users. There are many factors to consider when placing the detectable warning surface. The edges of the warning surface can be useful as cues to the direction of a crossing.
 - Installation of flares or curb returns is ENGINEER's choice.
 - Definitions and supplemental requirements are specified in APWA Section 32 16 14.
- PRODUCTS**
 - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
 - Detectable Warning Surface: Paver, ribbed composite panel, or tile. Provide a color that contrasts with adjacent walking surface, either light-on-dark or dark-on-light. ENGINEER to select type and color unless indicated elsewhere.
 - Concrete: Class 4000, APWA Section 03 30 04.
 - Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
- EXECUTION**
 - Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - Detectable Warning Surface: Provide detectable warnings in refuge islands as shown.
 - Concrete Placement: APWA Section 03 30 10.
 - Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install contraction joints vertical, 1/8-inch wide and 1/4 depth of the concrete flatwork.
 - Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.



Detectable warning surface

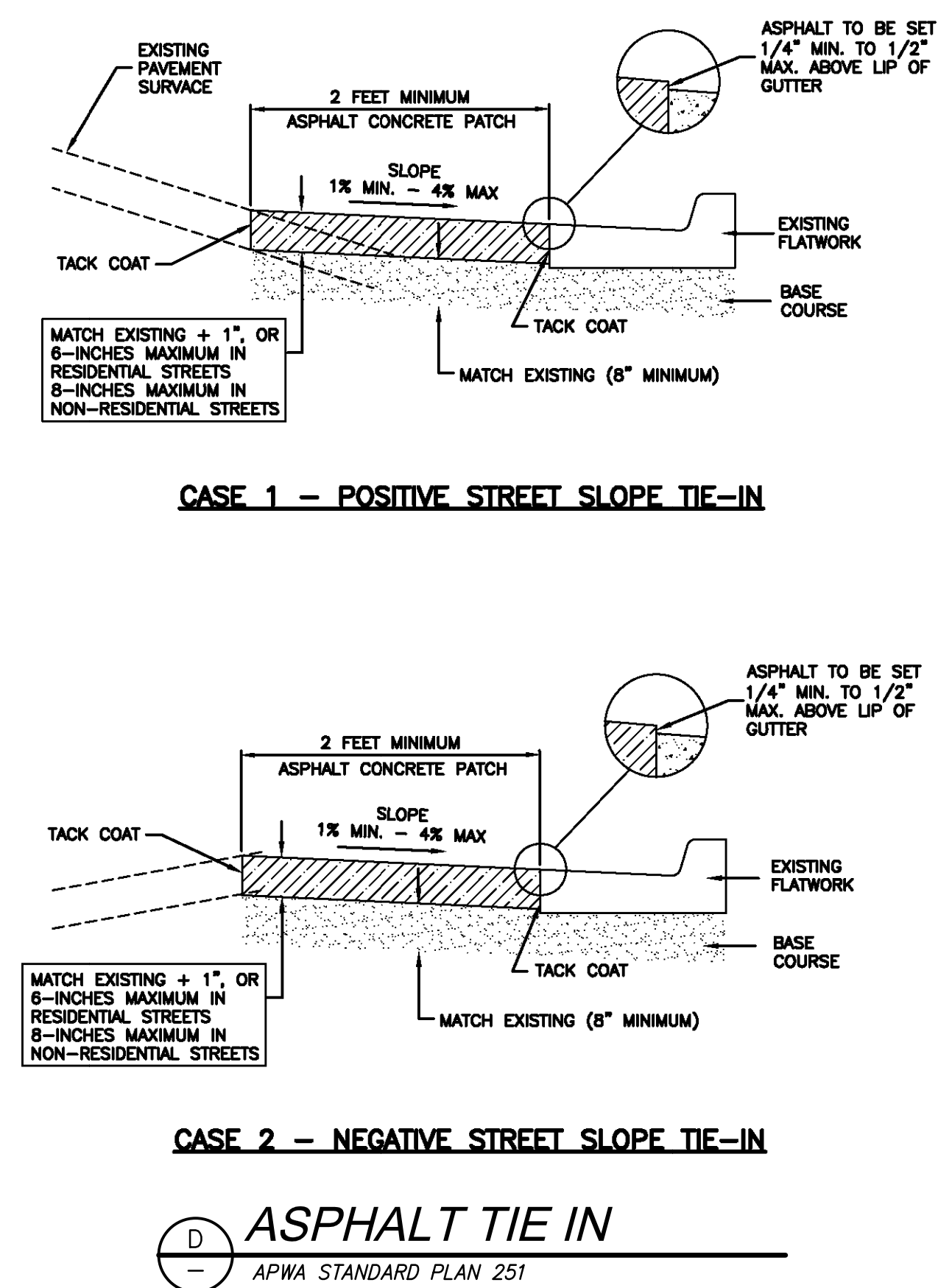
- GENERAL**
 - Detectable warnings consist of a surface of truncated domes aligned in a square or radial grid pattern with dome size, dome spacing, contrast and panel size as indicated.
 - Definitions and supplemental requirements are specified in APWA Section 32 16 14.
- PRODUCTS**
 - Pavers:
 - Concrete, APWA Section 32 14 13.
 - Brick and Mortar, APWA Section 32 14 16.
 - Tile: Unless indicated elsewhere, selection is by CONTRACTOR as allowed by ENGINEER.
 - Ribbed Composite Panel: Unless indicated elsewhere, selection is by CONTRACTOR as allowed by ENGINEER.
 - Bedding Sand, Joint Sand, Geotextile: APWA Section 32 14 13.
- EXECUTION**
 - Layout:
 - Joints Between Units: 3/16 inch maximum or manufacturer's recommendation.
 - Flares: Do not install detectable warning units on flared surfaces.
 - Alignment: Where a ramp, turning space, or blended transition provides access to the street continuously around a corner, align the vertical rows of truncated domes to be perpendicular or radial to the grade break between the ramp and the street for a 4 feet minimum width for each crosswalk served.
 - Transition 1 or 2: Selection is by ENGINEER unless indicated elsewhere.
 - At Rail Crossings: The edge of the detectable warning surface nearest the rail crossing is 6 feet minimum and 15 feet maximum from the centerline of the nearest rail.
 - Paver Installation: APWA Section 32 14 13. If paver must be cut, minimum paver cut length is 3/4 paver, or 1/2 paver length providing the adjacent paver is also reduced no more than 1/2 its original length. Do not cut pavers longitudinally. Remove domes that were cut.
 - Tile Installation: Install according to manufacturer's recommendations. Remove domes that were cut.
 - Ribbed Composite Panel Installation: Install according to manufacturer's recommendation. Remove domes that were cut. Seal cuts to prevent water intrusion.



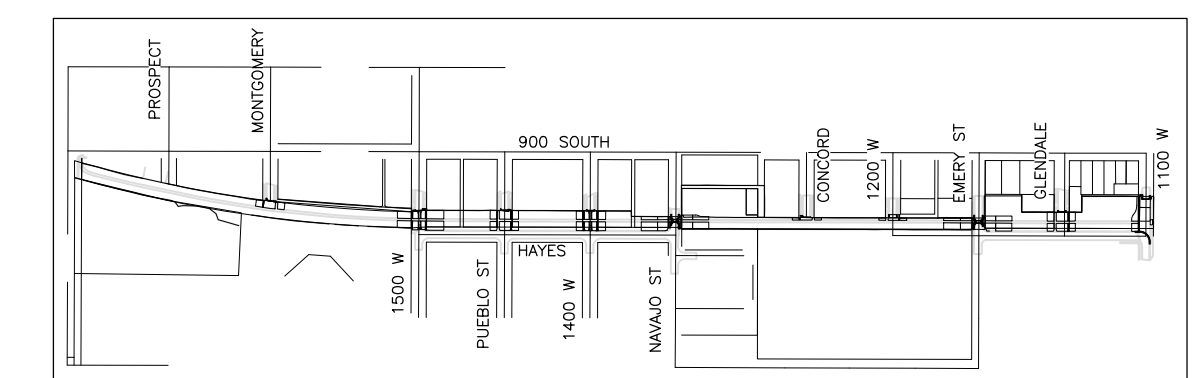
(C) DETECTABLE WARNING SURFACE
APWA STANDARD PLAN 238

Asphalt concrete pavement tie-in

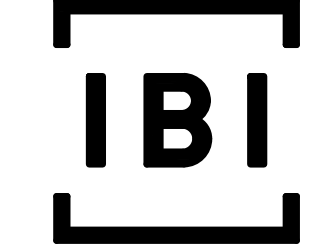
- GENERAL**
 - Site conditions vary. Configuration of tie in work may be changed to fit field conditions. Variance from dimensions and slopes shown must be acceptable to ENGINEER.
- PRODUCTS**
 - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - Tack Coat: APWA Section 32 12 13.13.
 - Asphalt Concrete: APWA Section 32 12 05.
 - Warm weather patch - AC-20-DM-1/2, unless indicated otherwise.
 - Cold weather patch - modified MC-250-FM-1, APWA Section 33 05 25.
- EXECUTION**
 - Pavement Removal: APWA Section 02 41 14. Provide a neat straight joint between existing and new asphalt concrete. Saw-cut joint if existing pavement exceeds 2-inches in thickness or if Portland-cement concrete underlies the asphalt concrete pavement.
 - Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - Tack Coat: Clean and tack all vertical surfaces adjacent to the asphalt patch. Apply full coverage surface tack coat between lifts if the lower lift is left unpaved longer than 24 hours or if it becomes unclean.
 - Asphalt Pavement:
 - Lay asphalt pavement higher as shown. Do not create water ponds on pavement.
 - Install in lifts no greater than 3-inches after compaction. Compact each lift is within the range of 92 to 96 percent relative to Rice density, ASTM D 2041.
 - Install final lift not less than 2 times the diameter of the maximum aggregate particle size. e.g.
 - 2" for 3/4" aggregate mix.
 - 1 1/2" for 1/2" aggregate mix, etc.



KEY PLAN



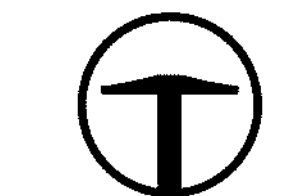
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CIVIL ENGINEER:



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801.743.1300

PROFESSIONAL SEAL:

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PROJECT IDENTIFICATION:

9-LINE CORRIDOR IMPROVEMENTS
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Written dimensions shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job and the Architect/Engineer shall be informed of any variations from the dimensions and conditions shown on the drawing. Shop drawings shall be submitted to the Architect/Engineer for approval before proceeding with fabrication.

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MARK DATE DESCRIPTION

MARK	DATE	DESCRIPTION

PREPARER #: 105616

CONTRACT #: 300124

PROJECT #: 240505

FILE #:

DRAWING FILE:

DRAWN BY: XX

CHECKED BY: XX

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DATE: 02/12/2018

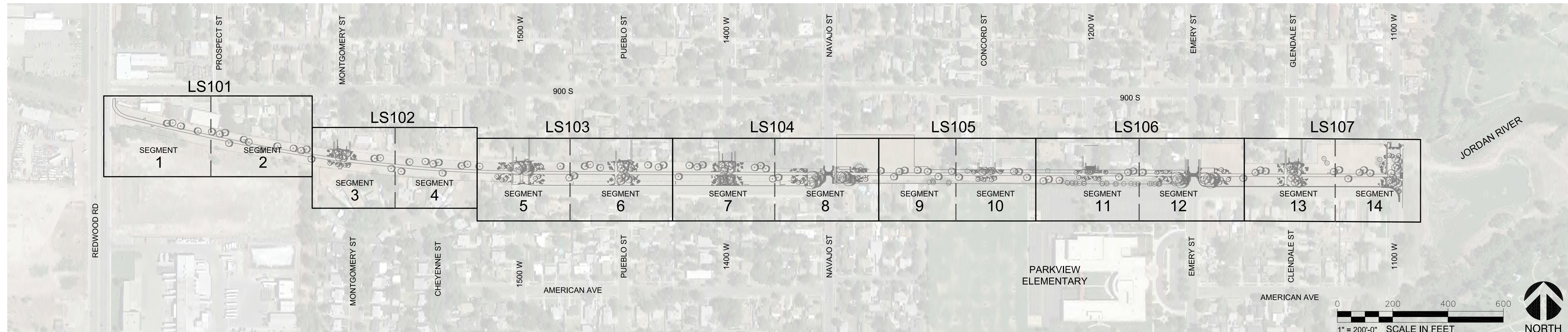
SHEET TITLE:

CIVIL DETAILS

SHEET IDENTIFIER:

DT502

BINDING ORDER 14 OF 14



1 OVERALL CONTEXT PLAN
1" = 200'-0"

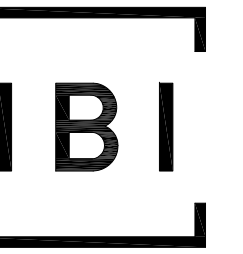
GENERAL NOTES:

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO CITY DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND STANDARD DRAWINGS, AND TO CONTRACT DOCUMENTS PREPARED FOR THIS PROJECT.
- IBI GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS. THE UTILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
- REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIRED INFORMATION.
- ALL CLEARING, DEBRIS, WASTE EXCAVATION AND CONSTRUCTION MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH LOCAL ORDINANCES.
- CONTRACTOR SHALL COORDINATE WITH THE OWNER TO OBTAIN ALL PERMITS AND LICENSES FOR ANY PHASE OF CONSTRUCTION PRIOR TO COMMENCING CONSTRUCTION FOR THAT PHASE.
- COOPERATION WITH UTILITY COMPANIES: THE CONTRACTOR SHALL NOTIFY ALL OWNERS OF UTILITIES, INCLUDING BUT NOT LIMITED TO, WATER, SANITARY SEWER, TELEPHONE, ELECTRICAL, NATURAL GAS, AND TELEVISION CABLE OF PROPOSED CONSTRUCTION WITHIN THE AREA OF OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR MEETING WITH AND COORDINATING THE CONSTRUCTION ACTIVITIES WITH THOSE OF THE UTILITY COMPANIES INVOLVED FOR FIELD LOCATION OF ALL EXISTING UTILITIES WITHIN THE AREA OF OPERATIONS. SHOULD THE CONTRACTOR EXPERIENCE A FAILURE BY THE UTILITY OWNERS TO COMPLY WITH THEIR RESPONSIBILITY OF RELOCATING OR ADJUSTING THEIR FACILITIES, THE OWNERS MUST BE NOTIFIED IN WRITING.
- CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SAFETY SIGNAGE AND SAFETY PERSONNEL. ALL SIGNAGE SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- CONTRACTOR SHALL CONFINE CONSTRUCTION ACTIVITY TO AREAS WITHIN THE AREAS DESIGNATED ON PLAN, UTILITY EASEMENTS, AND DESIGNATED STORAGE, STAGING, ACCESS, CONSTRUCTION AND MATERIAL WASTE AREAS. CONTRACTOR SHALL ABIDE BY EROSION CONTROL REQUIREMENTS AS SET FORTH HEREIN AND AS REQUIRED BY STATE, COUNTY, AND LOCAL LAWS.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL BUILDINGS AND BUSINESSES DURING CONSTRUCTION.
- CONTRACTOR SHALL SUBMIT TREE PROTECTION PLAN FOR APPROVAL BY CITY FORESTER PRIOR TO COMMENCING WORK.

LANDSCAPE DIMENSION AND LAYOUT NOTES:

- THE CONTRACTOR MUST FIELD VERIFY ALL LOCATIONS, ELEVATIONS, AND DIMENSIONS STATED GRAPHICALLY AND IMPLIED BY SCALE OR NOTES. CHECK ALL PROPERTY CORNER MARKERS AND PROPERTY LINES FOR PLAN COMPLIANCE BEFORE BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL STAKE PROPOSED CONSTRUCTION ELEMENTS IN THE FIELD PRIOR TO INSTALLATION, AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS OR DISCREPANCIES WITH EXISTING FIELD CONDITIONS OR DESIGN INTENT.
- WRITTEN DIMENSIONS SHALL PREVAIL OVER SCALED DIMENSIONS. DIMENSIONS ARE REFERENCED PARALLEL OR PERPENDICULAR TO SURFACES, STRUCTURES, OR SITE ELEMENTS, AND ARE TO BACK OF CURB OR FACE OF WALL UNLESS OTHERWISE INDICATED ON THE PLANS.
- LAYOUT SHALL BE VERIFIED AND APPROVED IN FIELD BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- THE DIMENSIONS ARE A REPRESENTATION OF THE DESIGN INTENT AND CONTRACTOR SHALL MAKE ADJUSTMENTS IN THE FIELD AND RECEIVE APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION.
- A DIGITAL FILE OF THE LAYOUT PLAN WILL BE PROVIDED TO THE CONTRACTOR UPON REQUEST.
- REPAIR ALL TURF/LANDSCAPE AREAS DISTURBED BY CONSTRUCTION ACTIVITY.
- CONTRACTOR TO SUBMIT CONSTRUCTION SITE ACCESS AND MOBILIZATION PLAN FOR APPROVAL BY OWNER'S REPRESENTATIVE AND CITY FORESTER PRIOR TO COMMENCING WORK.

PREPARER:



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WWW.SLCCGOV.COM/ENGINEERING

MARK	DATE	DESCRIPTION

PREPARER #: 112031
CONTRACT #: 300124
PROJECT #: 106068
FILE #:
DRAWING FILE:
DRAWN BY: CO
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DATE: 2/12/2018

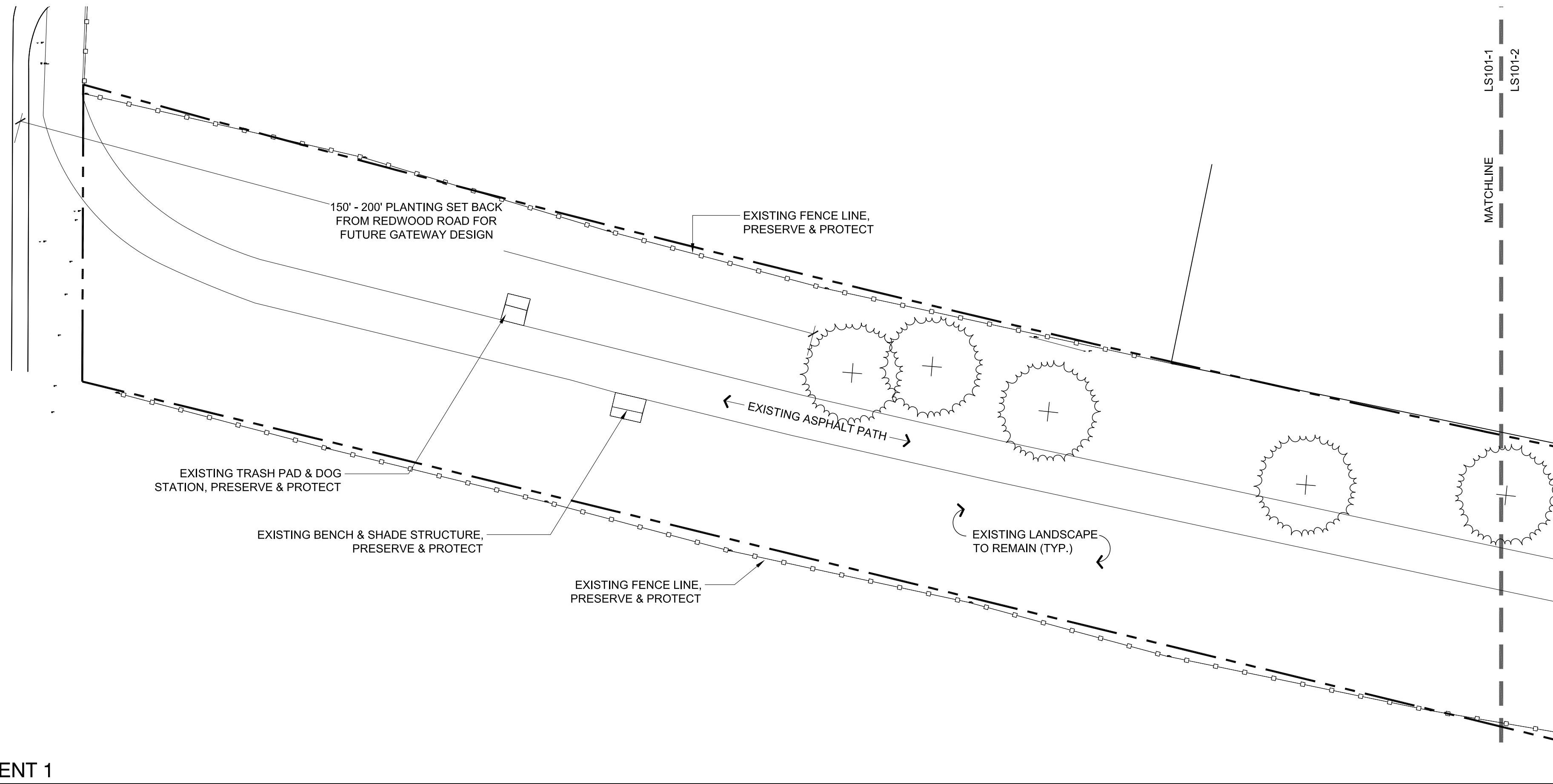
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OVERALL LAYOUT & MATERIALS PLAN

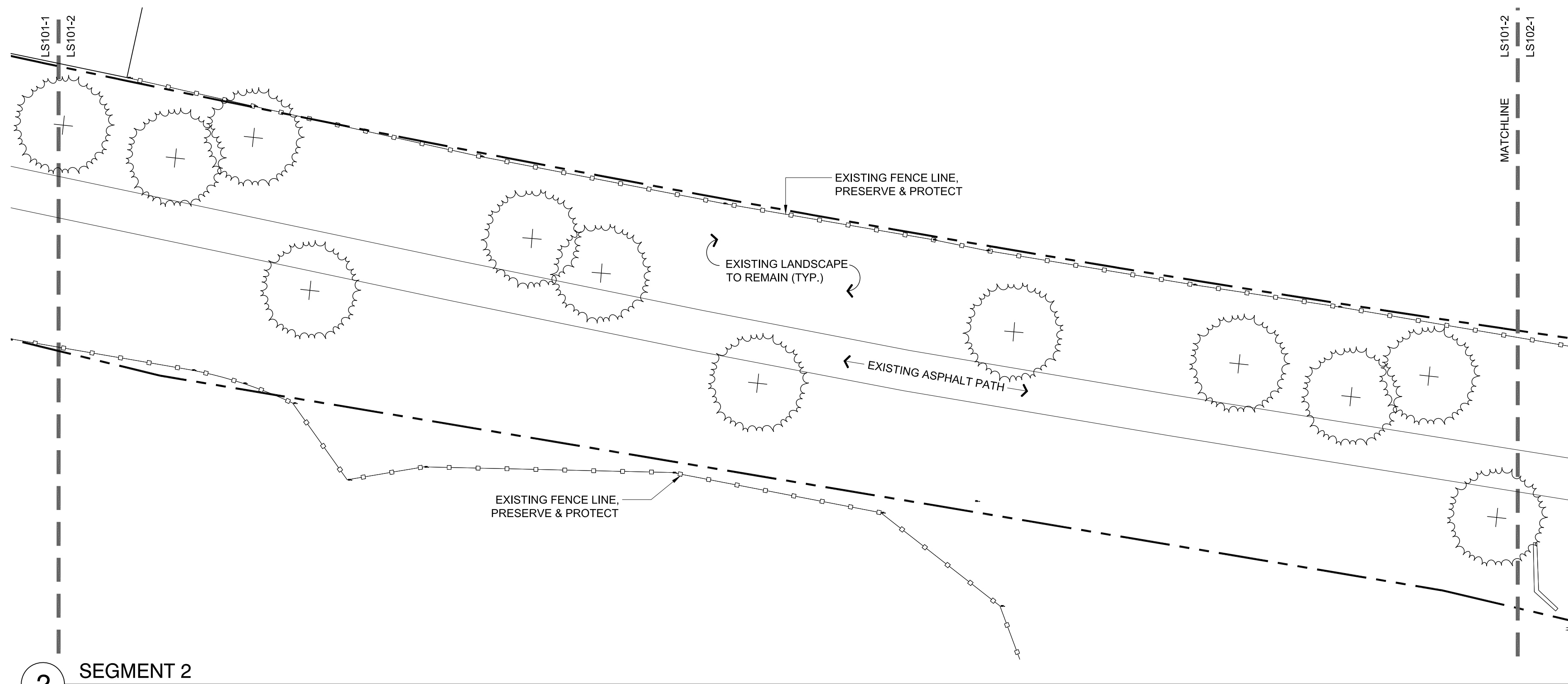
SHEET IDENTIFIER:

LS100

BINDING ORDER 15 OF 42



1 SEGMENT 1
1" = 20'-0"



2 SEGMENT 2
1" = 20'-0"

PLANT SCHEDULE

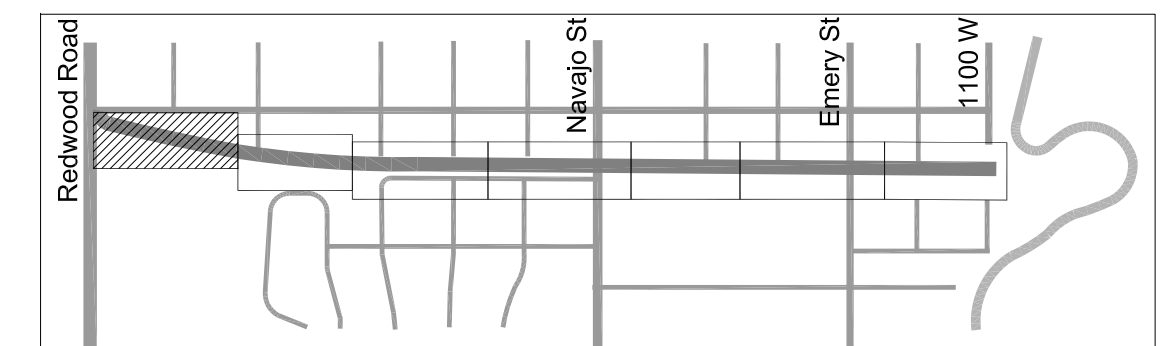
TREES	BOTANICAL NAME / COMMON NAME	CONT	QTY
	ACER NEGUNDO 'SENSATION' / SENSATION BOX ELDER MAPLE	3" CAL	62
	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' / 'AUTUMN BRILLIANCE' SERVICEBERRY	8' HT.	57
	PINUS PONDEROSA / PONDEROSA PINE	8' HT.	75
	QUERCUS MACROCARPA / BURR OAK	5" CAL	20
	LARGE PERENNIAL CARYOPTERIS X CLANDONENSIS 'BLUE MIST' / BLUE MIST SHRUB PEROVSKIA ATRIPLICIFOLIA / RUSSIAN SAGE PHYSOCARPUS OPULIFOLIUS 'SUMMER WINE' / SUMMER WINE NINEBARK RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC		106
	MEDIUM PERENNIAL AGASTACHE X 'BLUE FORTUNE' / ANISE HYSOOP ARTEMISIA X 'POWIS CASTLE' / POWIS CASTLE ARTEMISIA ERICAMERIA NAUSEOSA / RUBBER RABBITBRUSH HELICTOTRICHON SEMPERVIRENS / BLUE OAT GRASS PENSTEMON DIGITALIS 'HUSKER RED' / BEARDTONGUE SPHAERALCEA AMBIGUA / DESERT GLOBEMALLOW		204
	SMALL PERENNIAL ACHILLEA MILLEFOLIUM 'WALTER FUNCKE' / WALTER FUNCKE YARROW ECHINACEA PURPUREA 'WHITE SWAN' / PURPLE CONEFLOWER PENSTEMON EATONII / FIRECRACKER PENSTEMON PENSTEMON PINIFOLIUS / THREADLEAF BEARDTONGUE PENSTEMON STRICTUS / MANCOS PENSTEMON SALVIA X SYLVESTRIS 'EAST FRIESLAND' / SAGE SEDUM X 'AUTUMN JOY' / AUTUMN JOY SEDUM		1,003
	TURF GRASS DROUGHT TOLERANT BLEND - BIOGRASS, SOD		13,504 SF
	NATIVE SOD LOW MAINTENANCE DROUGHT TOLERANT - BIOMEADOW MIX		43,734 SF
	CRUSHED STONE PAVING WASATCH GRAY		18,053 SF
	GROUND COVER CERATOSTIGMA PLUMBAGINOIDES / DWARF PLUMBAGO		112 SF

NOTES:

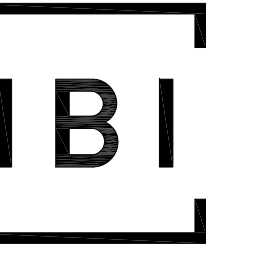
- TIMBER FORMS TO BE MADE OF TRESTLEWOOD & ATTACHED TO GROUND WITH REBAR; DETAILS AND LAYOUT TO BE PROVIDED FOR 100% REVIEW
- NEW BOULDERS ARE TO MATCH EXISTING BOULDERS IN COLOR - MINIMUM SIZE SHALL BE 2' X 2' - MAXIMUM SIZE SHALL BE 4' X 4'

- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- SOLAR BOLLARD (SEE ELECTRICAL)

KEY PLAN



PREPARER:



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PROJECT OWNER:

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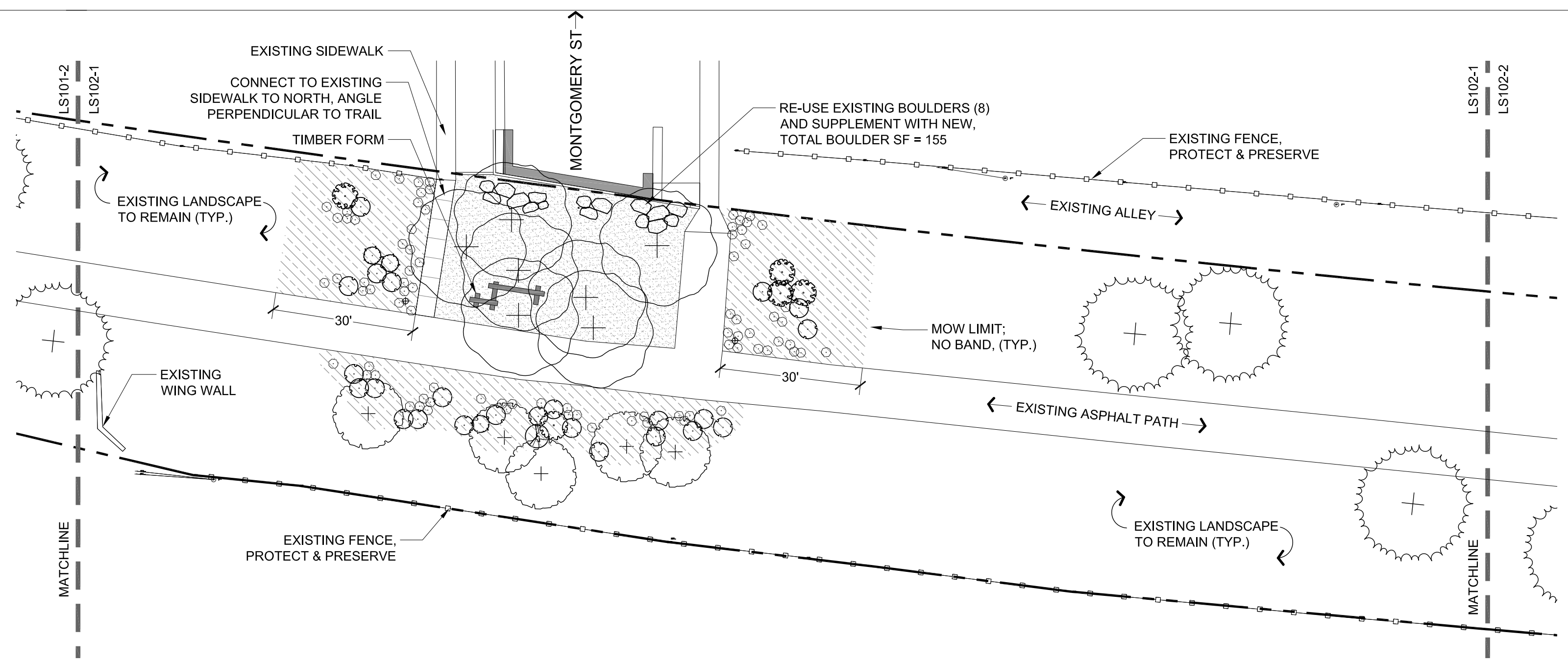
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LAYOUT & MATERIALS PLAN

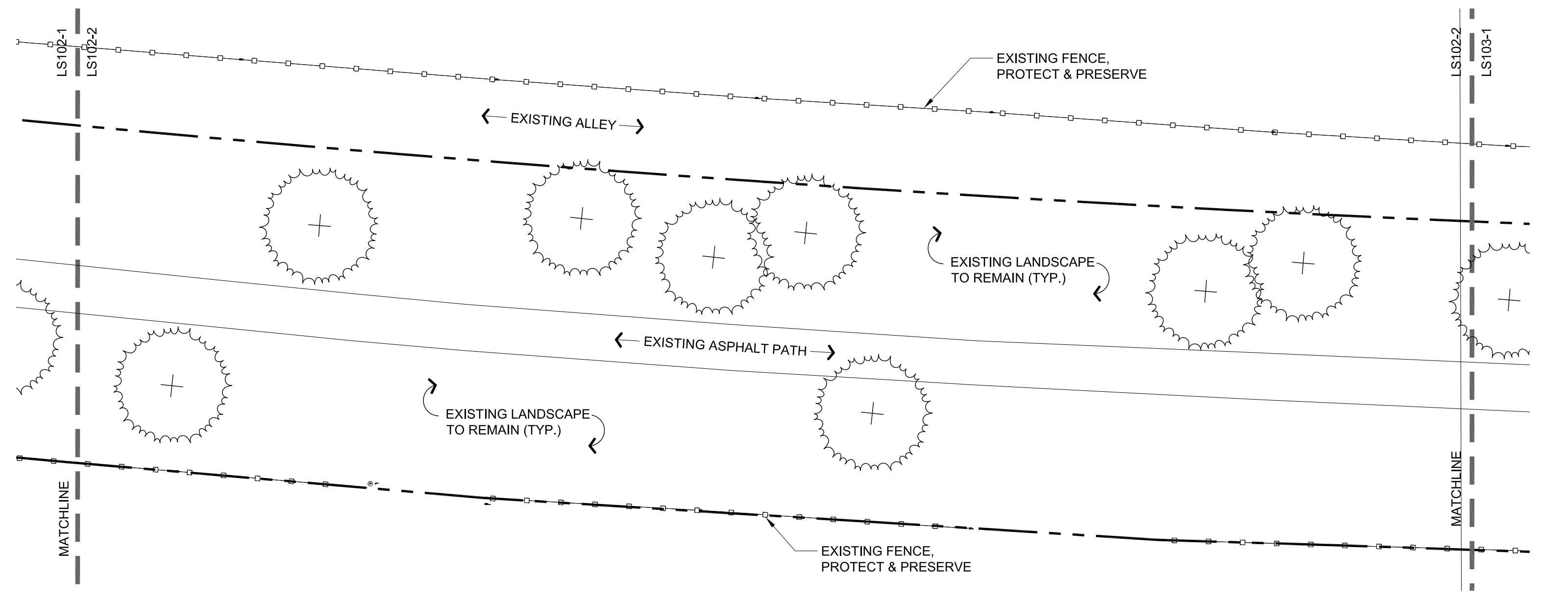
SHEET IDENTIFIER:

LS101

BINDING ORDER 16 OF 42



1 SEGMENT 3
1" = 20'-0"



2 SEGMENT 4
1" = 20'-0"

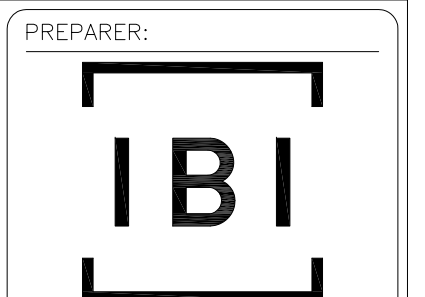
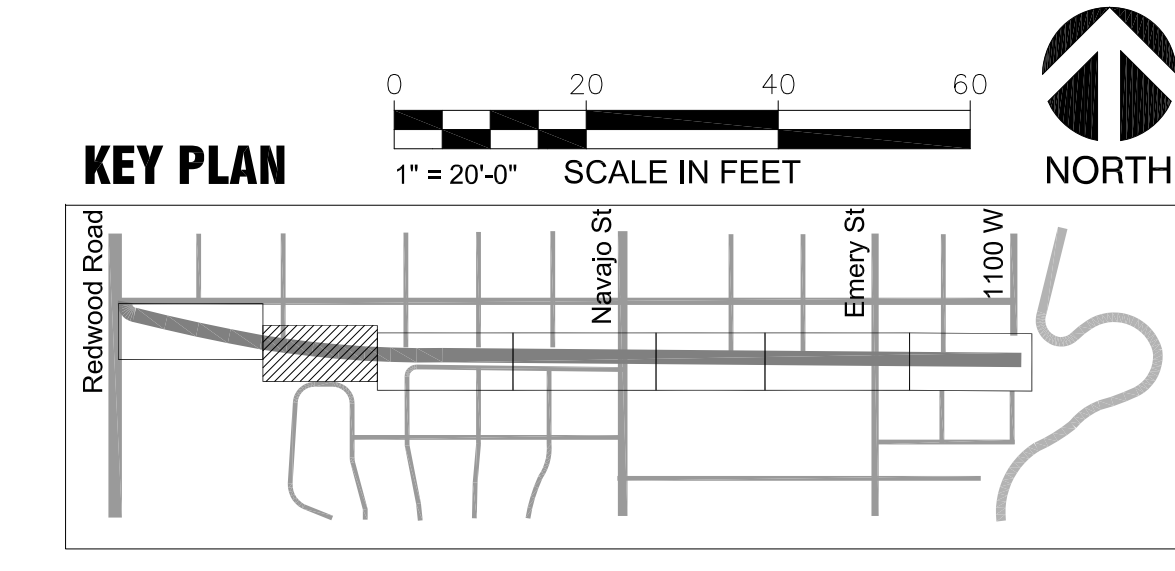
PLANT SCHEDULE

TREES	BOTANICAL NAME / COMMON NAME	CONT	QTY
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	SMALL PERENNIAL ACHILLEA MILLEFOLIUM 'WALTER FUNCKE' / WALTER FUNCKE YARROW ECHINACEA PURPUREA 'WHITE SWAN' / PURPLE CONEFLOWER PENSTEMON EATONII / FIRECRACKER PENSTEMON PENSTEMON PINIFOLIUS / THREADLEAF BEARDTONGUE PENSTEMON STRICTUS / MANCOS PENSTEMON SALVIA X SYLVESTRIS 'EAST FRIESLAND' / SAGE SEDUM X 'AUTUMN JOY' / AUTUMN JOY SEDUM		1,003
	TURF GRASS DROUGHT TOLERANT BLEND - BIOGRASS, SOD		13,504 SF
	NATIVE SOD LOW MAINTENANCE DROUGHT TOLERANT - BIOMEADOW MIX		43,734 SF
	CRUSHED STONE PAVING WASATCH GRAY		18,053 SF
	GROUND COVER CERATOSTIGMA PLUMBAGINOIDES / DWARF PLUMBAGO		112 SF

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PROJECT IDENTIFICATION:
9-LINE CORRIDOR IMPROVEMENTS
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CONTRACT #: 300124
PROJECT #: 106068
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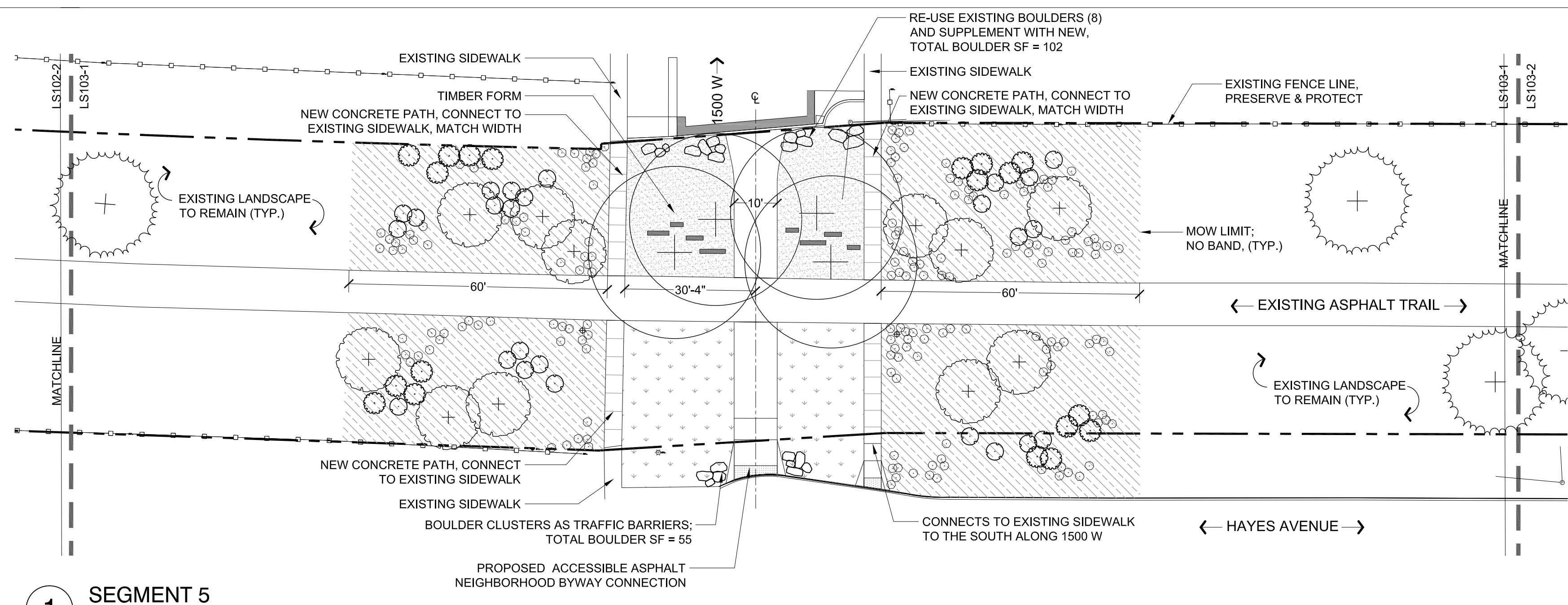
SHEET TITLE:

LAYOUT & MATERIALS PLAN

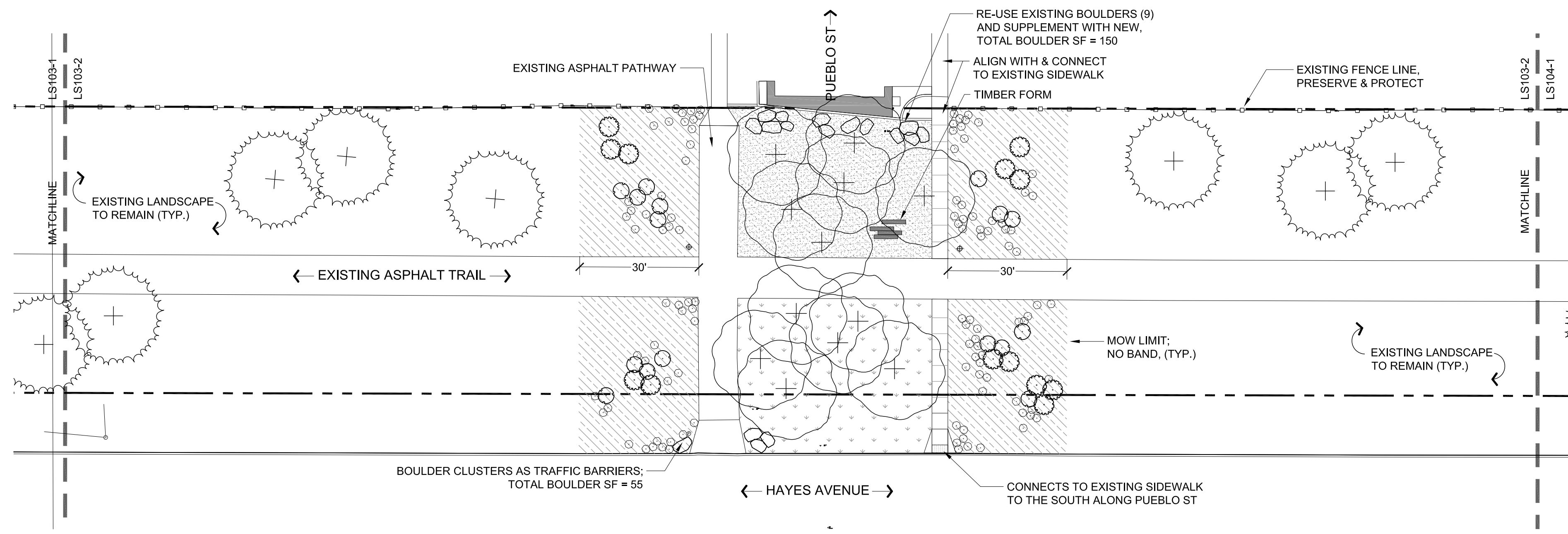
SHEET IDENTIFIER:

LS102

BINDING ORDER 17 OF 42



1 SEGMENT 5
1" = 20'-0"



2 SEGMENT 6
1" = 20'-0"

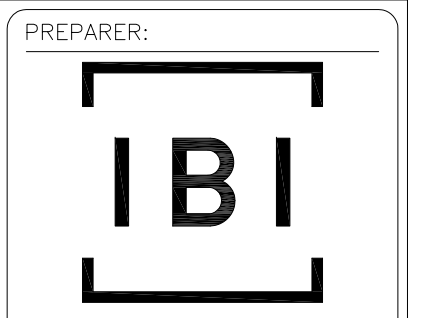
PLANT SCHEDULE

TREES	BOTANICAL NAME / COMMON NAME	CONT	QTY
	ACER NEGUNDO 'SENSATION' / SENSATION BOX ELDER MAPLE	3" CAL	62
	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' / 'AUTUMN BRILLIANCE' SERVICEBERRY	8' HT.	57
	PINUS PONDEROSA / PONDEROSA PINE	8' HT.	75
	QUERCUS MACROCARPA / BURR OAK	5" CAL	20
	LARGE PERENNIAL CARYOPTERIS X CLANDONENSIS 'BLUE MIST' / BLUE MIST SHRUB PEROVSKIA ATRIPLICIFOLIA / RUSSIAN SAGE PHYSOCARPUS OPULIFOLIUS 'SUMMER WINE' / SUMMER WINE NINEBARK RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC		106
	MEDIUM PERENNIAL AGASTACHE X 'BLUE FORTUNE' / ANISE HYSOOP ARTEMISIA X 'POWIS CASTLE' / POWIS CASTLE ARTEMISIA ERICAMERIA NAUSEOSA / RUBBER RABBITBRUSH HELICTOTRICHON SEMPERVIRENS / BLUE OAT GRASS PENSTEMON DIGITALIS 'HUSKER RED' / BEARDTONGUE SPHAERALCEA AMBIGUA / DESERT GLOBEMALLOW		204
	SMALL PERENNIAL ACHILLEA MILLEFOLIUM 'WALTER FUNCKE' / WALTER FUNCKE YARROW ECHINACEA PURPUREA 'WHITE SWAN' / PURPLE CONEFLOWER PENSTEMON EATONII / FIRECRACKER PENSTEMON PENSTEMON PINIFOLIUS / THREADLEAF BEARDTONGUE PENSTEMON STRICTUS / MANCOS PENSTEMON SALVIA X SYLVESTRIS 'EAST FRIESLAND' / SAGE SEDUM X 'AUTUMN JOY' / AUTUMN JOY SEDUM		1,003
	TURF GRASS DROUGHT TOLERANT BLEND - BIOGRASS, SOD		13,504 SF
	NATIVE SOD LOW MAINTENANCE DROUGHT TOLERANT - BIOMEADOW MIX		43,734 SF
	CRUSHED STONE PAVING WASATCH GRAY		18,053 SF
	GROUND COVER CERATOSTIGMA PLUMBAGINOIDES / DWARF PLUMBAGO		112 SF

NOTES:

- TIMBER FORMS TO BE MADE OF TRESTLEWOOD & ATTACHED TO GROUND WITH REBAR; DETAILS AND LAYOUT TO BE PROVIDED FOR 100% REVIEW
- NEW BOULDERS ARE TO MATCH EXISTING BOULDERS IN COLOR - MINIMUM SIZE SHALL BE 2' X 2' - MAXIMUM SIZE SHALL BE 4' X 4'

- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- SOLAR BOLLARD (SEE ELECTRICAL)



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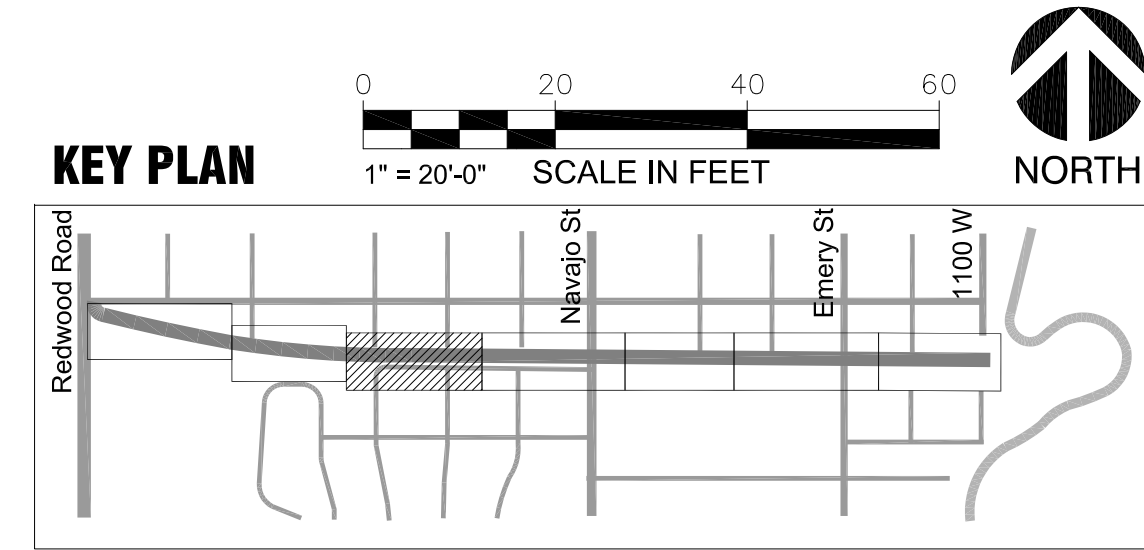
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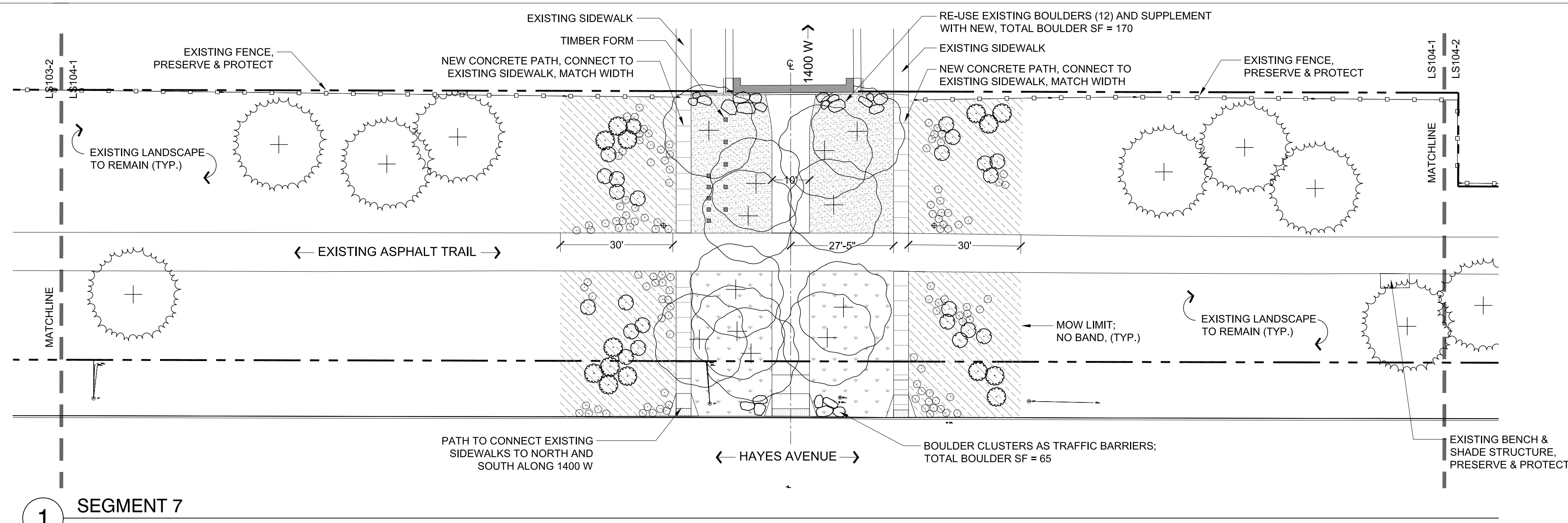
LAYOUT & MATERIALS PLAN

SHEET IDENTIFIER:

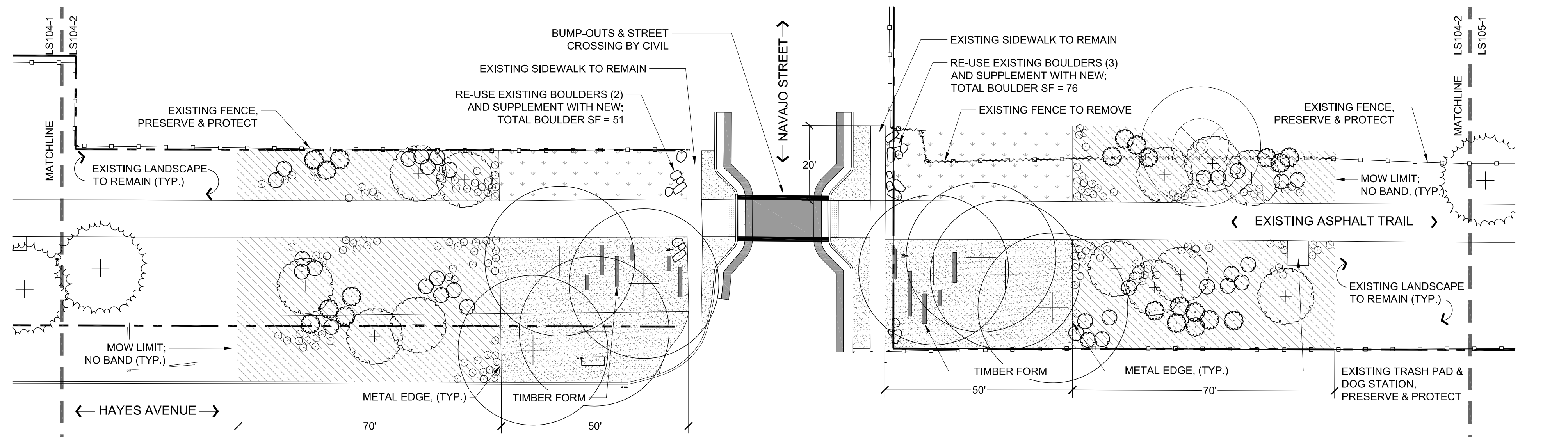
LS103

BINDING ORDER 18 OF 42





1 SEGMENT 7
1" = 20'-0"



2 SEGMENT 8
1" = 20'-0"

PLANT SCHEDULE

TREES	BOTANICAL NAME / COMMON NAME	CONT	QTY
(Symbol)	ACER NEGUNDO 'SENSATION' / SENSATION BOX ELDER MAPLE	3" CAL	62
(Symbol)	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' / 'AUTUMN BRILLIANCE' SERVICEBERRY	8' HT.	57
(Symbol)	PINUS PONDEROSA / PONDEROSA PINE	8' HT.	75
(Symbol)	QUERCUS MACROCARPA / BURR OAK	5" CAL	20
(Symbol)	LARGE PERENNIAL CARYOPTERIS X CLANDONENSIS 'BLUE MIST' / BLUE MIST SHRUB PEROVSKIA ATRIPPLICIFOLIA / RUSSIAN SAGE PHYSOCARPUS OPULIFOLIUS 'SUMMER WINE' / SUMMER WINE NINEBARK RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC		106
(Symbol)	MEDIUM PERENNIAL AGASTACHE X 'BLUE FORTUNE' / ANISE HYSOOP ARTEMISIA X 'POWIS CASTLE' / POWIS CASTLE ARTEMISIA ERICAMERIA NAUSEOSA / RUBBER RABBITBRUSH HELICTOTRICHON SEMPERVIRENS / BLUE OAT GRASS PENSTEMON DIGITALIS 'HUSKER RED' / BEARDTONGUE SPHAERALCEA AMBIGUA / DESERT GLOBEMALLOW		204
(Symbol)	SMALL PERENNIAL ACHILLEA MILLEFOLIUM 'WALTER FUNCKE' / WALTER FUNCKE YARROW ECHINACEA PURPUREA 'WHITE SWAN' / PURPLE CONEFLOWER PENSTEMON EATONII / FIRECRACKER PENSTEMON PENSTEMON PINIFOLIUS / THREADLEAF BEARDTONGUE PENSTEMON STRICTUS / MANCOS PENSTEMON SALVIA X SYLVESTRIS 'EAST FRIESLAND' / SAGE SEDUM X 'AUTUMN JOY' / AUTUMN JOY SEDUM		1,003
(Symbol)	TURF GRASS DROUGHT TOLERANT BLEND - BIOGRASS, SOD		13,504 SF
(Symbol)	NATIVE SOD LOW MAINTENANCE DROUGHT TOLERANT - BIOMEADOW MIX		43,734 SF
(Symbol)	CRUSHED STONE PAVING WASATCH GRAY		18,053 SF
(Symbol)	GROUND COVER CERATOSTIGMA PLUMBAGINOIDES / DWARF PLUMBAGO		112 SF

NOTES:

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- (Symbol) EXISTING TREE
- (Symbol) EXISTING TREE TO BE REMOVED
- (Symbol) SOLAR BOLLARD (SEE ELECTRICAL)

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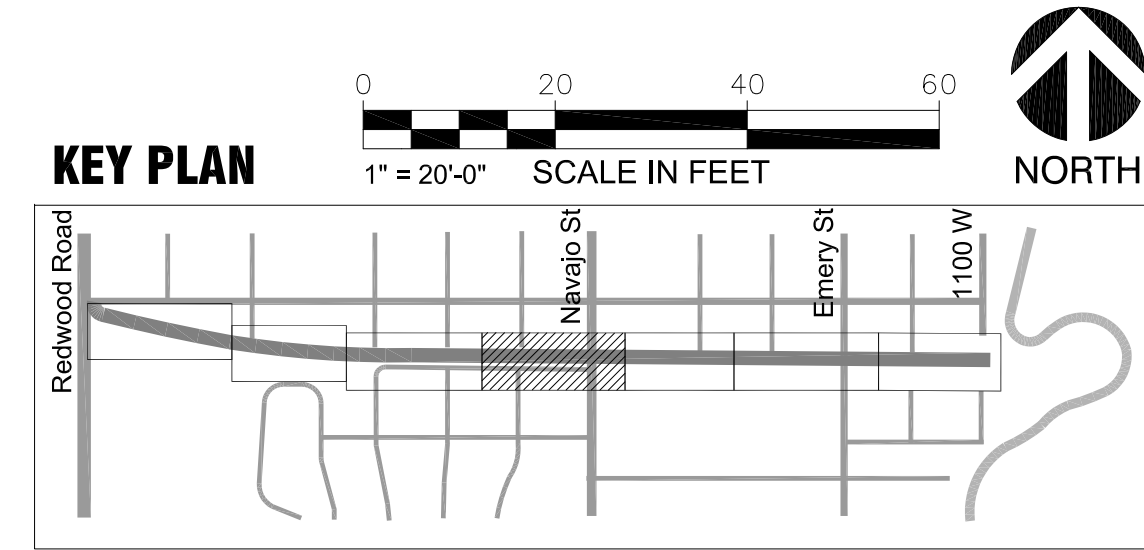
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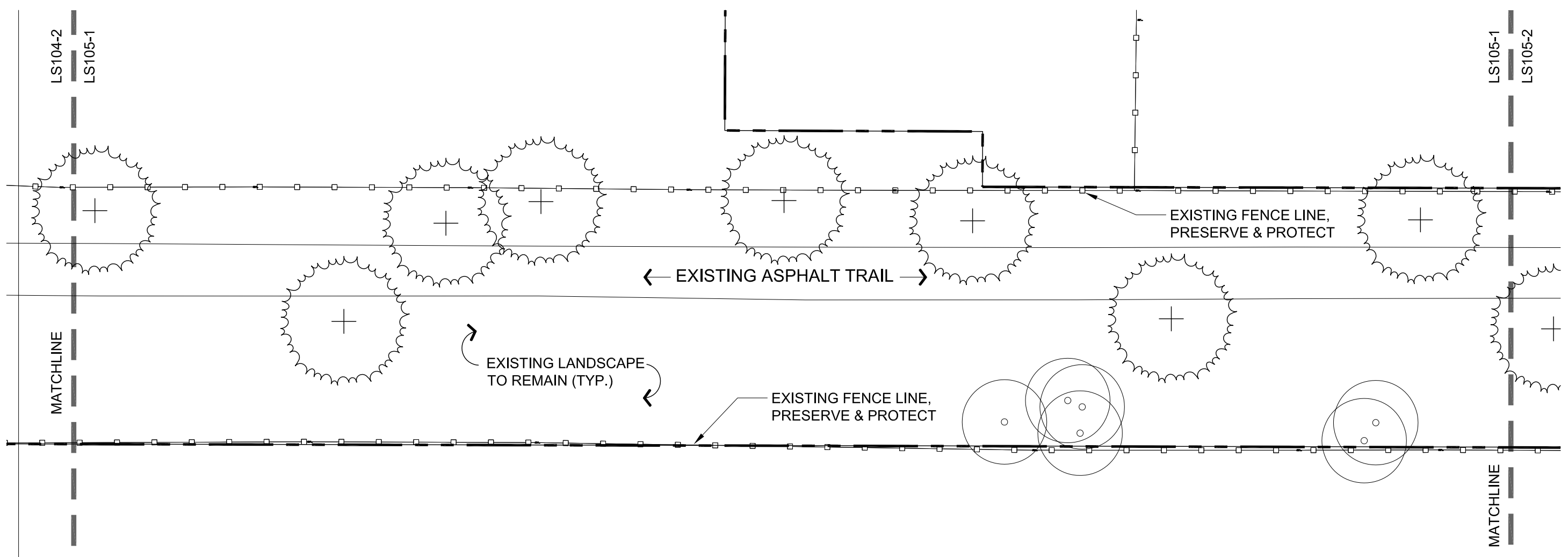
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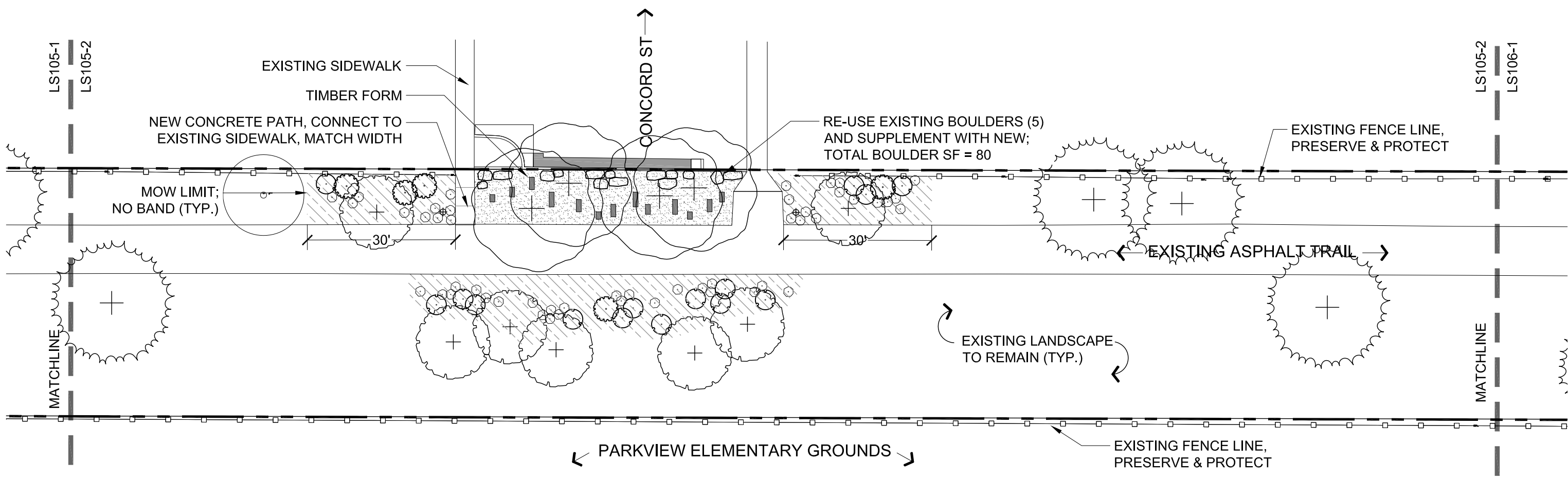
SHEET TITLE:
LAYOUT & MATERIALS PLAN

SHEET IDENTIFIER:
LS104
BINDING ORDER 19 OF 42





1 SEGMENT 9
1" = 20'-0"



2 SEGMENT 10
1" = 20'-0"

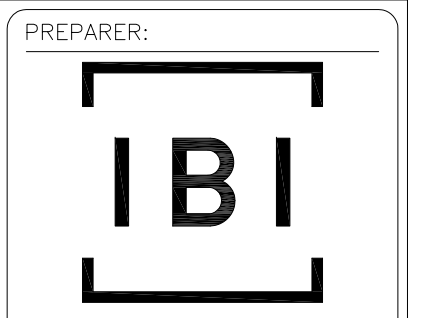
PLANT SCHEDULE

TREES	BOTANICAL NAME / COMMON NAME	CONT	QTY
	ACER NEGUNDO 'SENSATION' / SENSATION BOX ELDER MAPLE	3" CAL	62
	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' / 'AUTUMN BRILLIANCE' SERVICEBERRY	8' HT.	57
	PINUS PONDEROSA / PONDEROSA PINE	8' HT.	75
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	MEDIUM PERENNIAL AGASTACHE X 'BLUE FORTUNE' / ANISE HYSSOP ARTEMISIA X 'POWIS CASTLE' / POWIS CASTLE ARTEMISIA ERICAMERIA NAUSEOSA / RUBBER RABBITBRUSH HELICTOTRICHON SEMPERVIRENS / BLUE OAT GRASS PENSTEMON DIGITALIS 'HUSKER RED' / BEARDTONGUE SPHAERALCEA AMBIGUA / DESERT GLOBEMALLOW		204
	SMALL PERENNIAL ACHILLEA MILLEFOLIUM 'WALTER FUNCKE' / WALTER FUNCKE YARROW ECHINACEA PURPUREA 'WHITE SWAN' / PURPLE CONEFLOWER PENSTEMON EATONII / FIRECRACKER PENSTEMON PENSTEMON PINIFOLIUS / THREADLEAF BEARDTONGUE PENSTEMON STRICTUS / MANCOS PENSTEMON SALVIA X SYLVESTRIS 'EAST FRIESLAND' / SAGE SEDUM X 'AUTUMN JOY' / AUTUMN JOY SEDUM		1,003
	TURF GRASS DROUGHT TOLERANT BLEND - BIOGRASS, SOD		13,504 SF
	NATIVE SOD LOW MAINTENANCE DROUGHT TOLERANT - BIOMEADOW MIX		43,734 SF
	CRUSHED STONE PAVING WASATCH GRAY		18,053 SF
	GROUND COVER CERATOSTIGMA PLUMBAGINOIDES / DWARF PLUMBAGO		112 SF

NOTES:

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- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- SOLAR BOLLARD (SEE ELECTRICAL)



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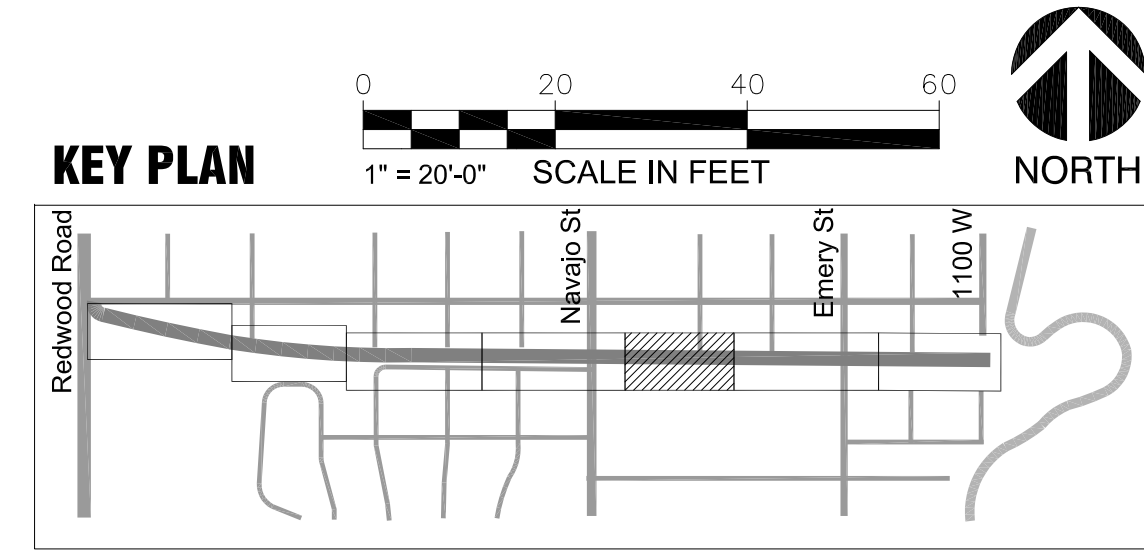
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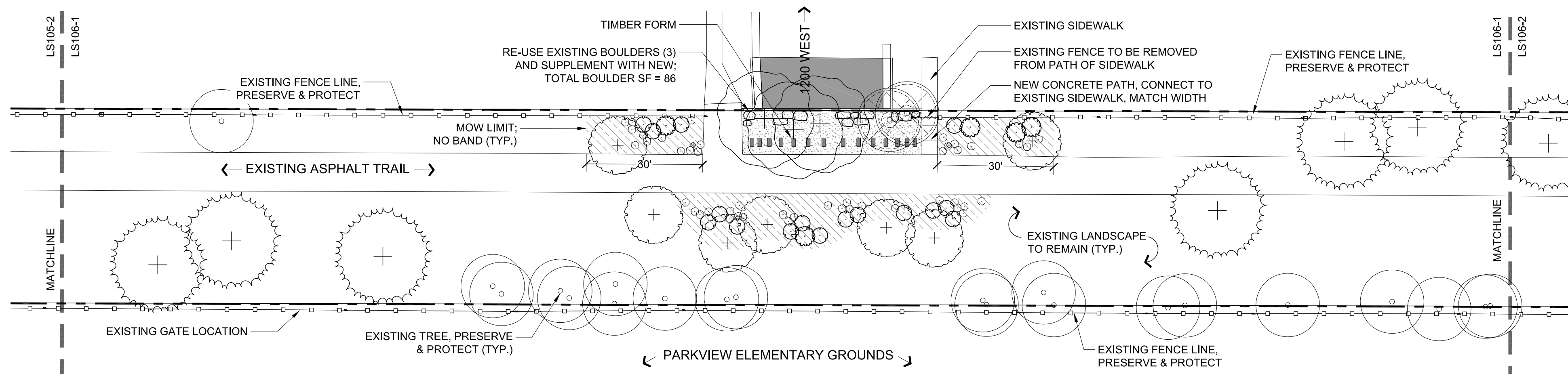
LAYOUT & MATERIALS PLAN

SHEET IDENTIFIER:

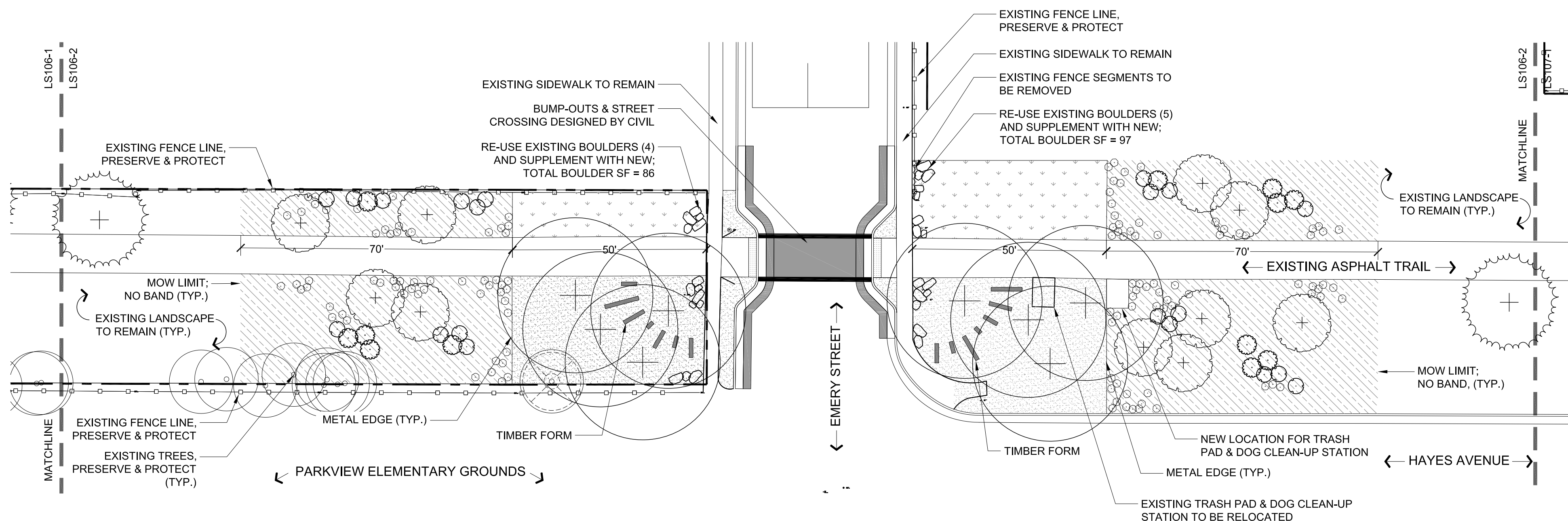
LS105

BINDING ORDER 20 OF 42





1 SEGMENT 11
1" = 20'-0"



2 SEGMENT 12
1" = 20'-0"

PLANT SCHEDULE

TREES	BOTANICAL NAME / COMMON NAME	CONT	QTY
(Symbol: Circle with cross)	ACER NEGUNDO 'SENSATION' / SENSATION BOX ELDER MAPLE	3" CAL	62
(Symbol: Circle with cross)	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' / 'AUTUMN BRILLIANCE' SERVICEBERRY	8' HT.	57
(Symbol: Circle with cross)	PINUS PONDEROSA / PONDEROSA PINE	8' HT.	75
(Symbol: Circle with cross)	QUERCUS MACROCARPA / BURR OAK	5" CAL	20
(Symbol: Circle with cross)	LARGE PERENNIAL CARYOPTERIS X CLANDONENSIS 'BLUE MIST' / BLUE MIST SHRUB PEROVSKIA ATRIPLICIFOLIA / RUSSIAN SAGE PHYSOCARPUS OPULIFOLIUS 'SUMMER WINE' / SUMMER WINE NINEBARK RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC		106
(Symbol: Circle with cross)	MEDIUM PERENNIAL AGASTACHE X 'BLUE FORTUNE' / ANISE HYSOPO ARTEMISIA X 'POWIS CASTLE' / POWIS CASTLE ARTEMISIA ERICAMERIA NAUSEOSA / RUBBER RABBITBRUSH HELICTOTRICHON SEMPERVIRENS / BLUE OAT GRASS PENSTEMON DIGITALIS 'HUSKER RED' / BEARDTONGUE SPHAERALCEA AMBIGUA / DESERT GLOBEMALLOW		204
(Symbol: Circle with cross)	SMALL PERENNIAL ACHILLEA MILLEFOLIUM 'WALTER FUNCKE' / WALTER FUNCKE YARROW ECHINACEA PURPUREA 'WHITE SWAN' / PURPLE CONEFLOWER PENSTEMON EATONII / FIRECRACKER PENSTEMON PENSTEMON PINIFOLIUS / THREADLEAF BEARDTONGUE PENSTEMON STRICTUS / MANCOS PENSTEMON SALVIA X SYLVESTRIS 'EAST FRIESLAND' / SAGE SEDUM X 'AUTUMN JOY' / AUTUMN JOY SEDUM		1,003
(Symbol: Square with cross)	TURF GRASS DROUGHT TOLERANT BLEND - BIOGRASS, SOD		13,504 SF
(Symbol: Square with diagonal lines)	NATIVE SOD LOW MAINTENANCE DROUGHT TOLERANT - BIOMEADOW MIX		43,734 SF
(Symbol: Square with dots)	CRUSHED STONE PAVING WASATCH GRAY		18,053 SF
(Symbol: Square with diagonal lines)	GROUND COVER CERATOSTIGMA PLUMBAGINOIDES / DWARF PLUMBAGO		112 SF

NOTES:

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- (Symbol: Circle with cross) EXISTING TREE
- (Symbol: Circle with cross and slash) EXISTING TREE TO BE REMOVED
- (Symbol: Circle with cross and dot) SOLAR BOLLARD (SEE ELECTRICAL)

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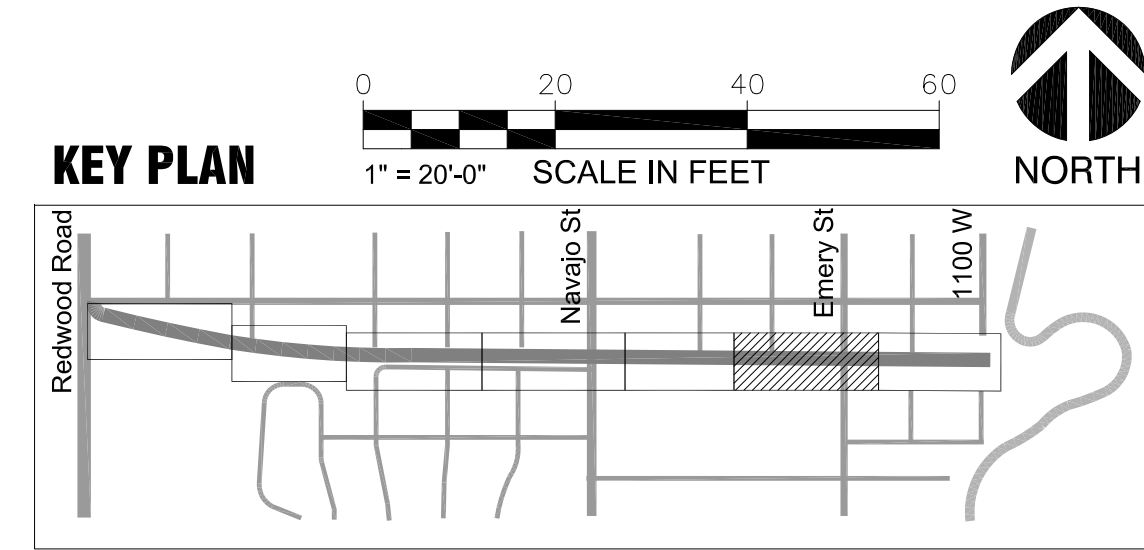
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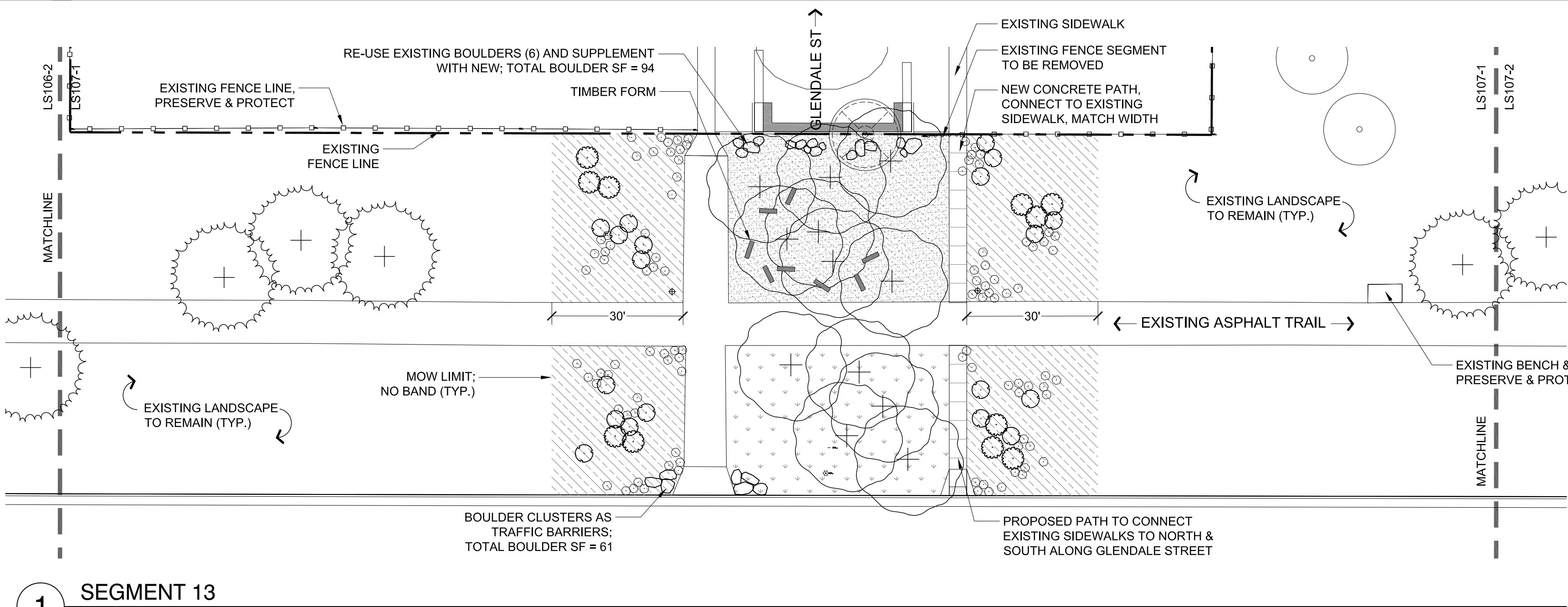
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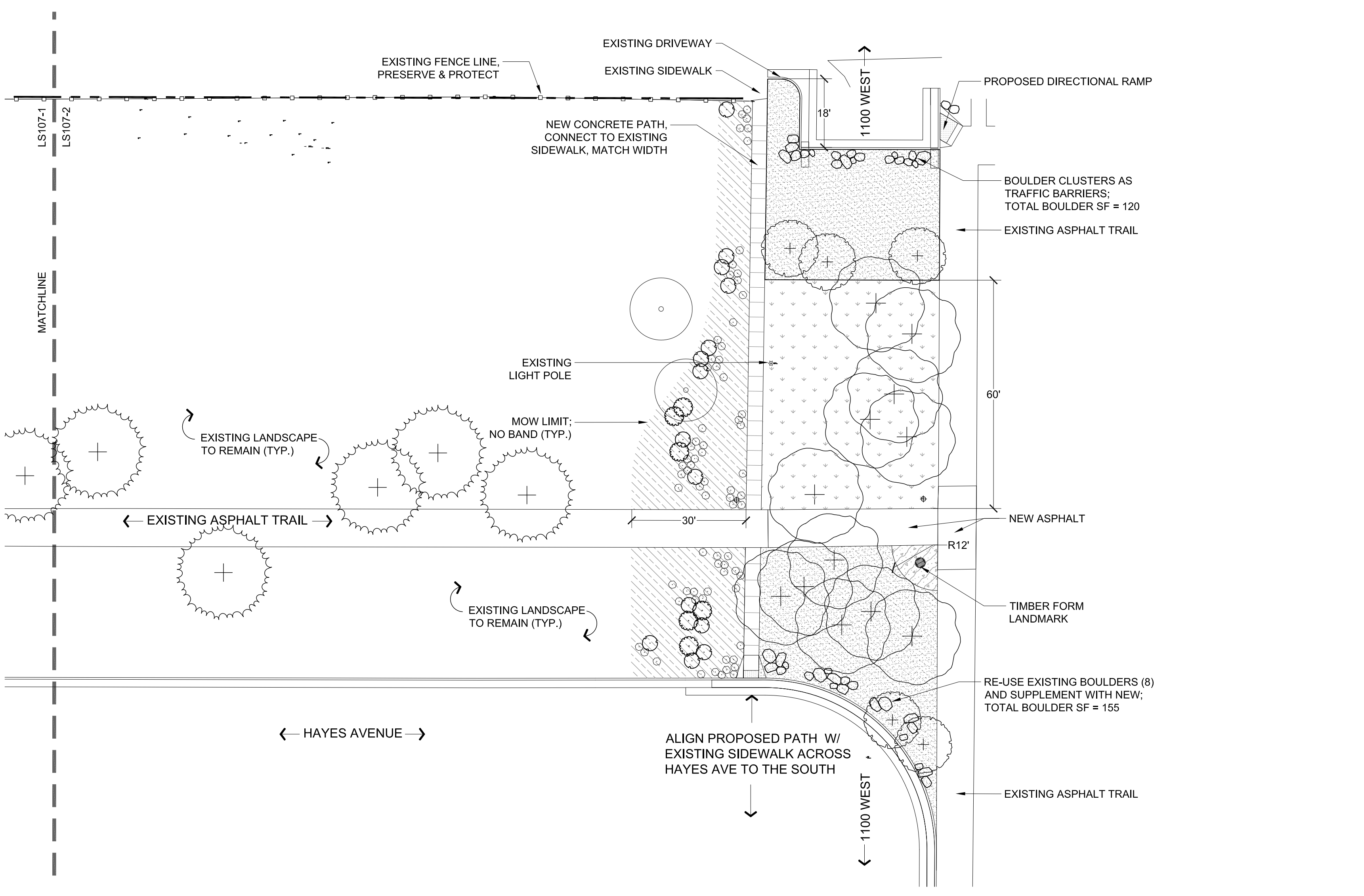
SHEET TITLE:
LAYOUT & MATERIALS PLAN

SHEET IDENTIFIER:
LS106
BINDING ORDER 21 OF 42





1 SEGMENT 13
1" = 20'-0"



2 SEGMENT 14
1" = 20'-0"

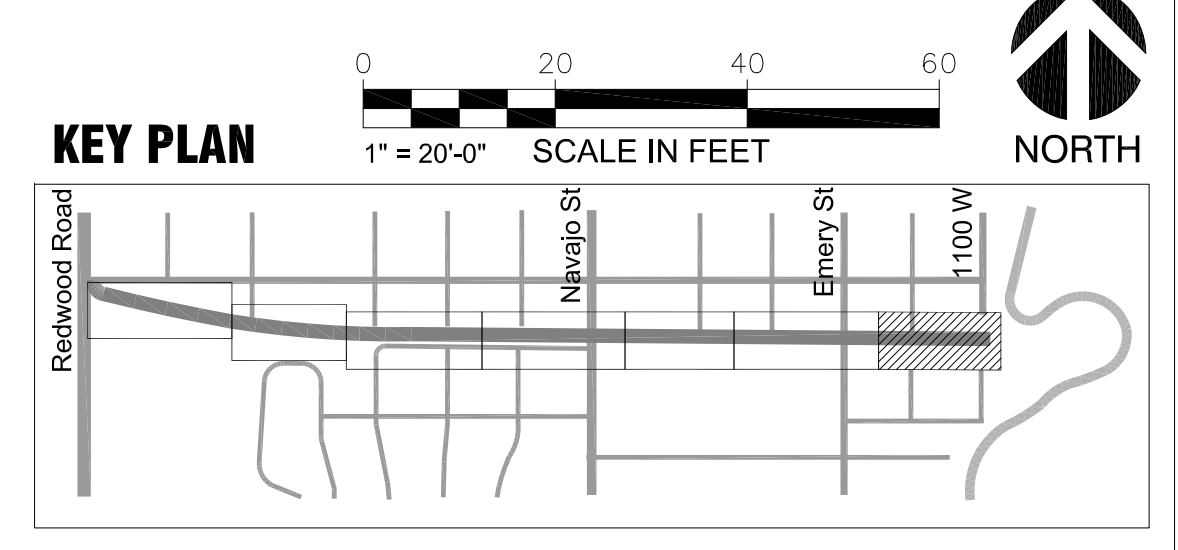
PLANT SCHEDULE

TREES	BOTANICAL NAME / COMMON NAME	CONT	QTY
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	TURF GRASS DROUGHT TOLERANT BLEND - BIOGRASS, SOD		13,504 SF
	NATIVE SOD LOW MAINTENANCE DROUGHT TOLERANT - BIOMEADOW MIX		43,734 SF
	CRUSHED STONE PAVING WASATCH GRAY		18,053 SF
	GROUND COVER CERATOSTIGMA PLUMBAGINOIDES / DWARF PLUMBAGO		112 SF

NOTES:

- TIMBER FORMS TO BE MADE OF TRESTLEWOOD & ATTACHED TO GROUND WITH REBAR; DETAILS AND LAYOUT TO BE PROVIDED FOR 100% REVIEW
- NEW BOULDERS ARE TO MATCH EXISTING BOULDERS IN COLOR - MINIMUM SIZE SHALL BE 2' X 2' - MAXIMUM SIZE SHALL BE 4' X 4'

- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- SOLAR BOLLARD (SEE ELECTRICAL)



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PROJECT IDENTIFICATION:
9-LINE CORRIDOR IMPROVEMENTS
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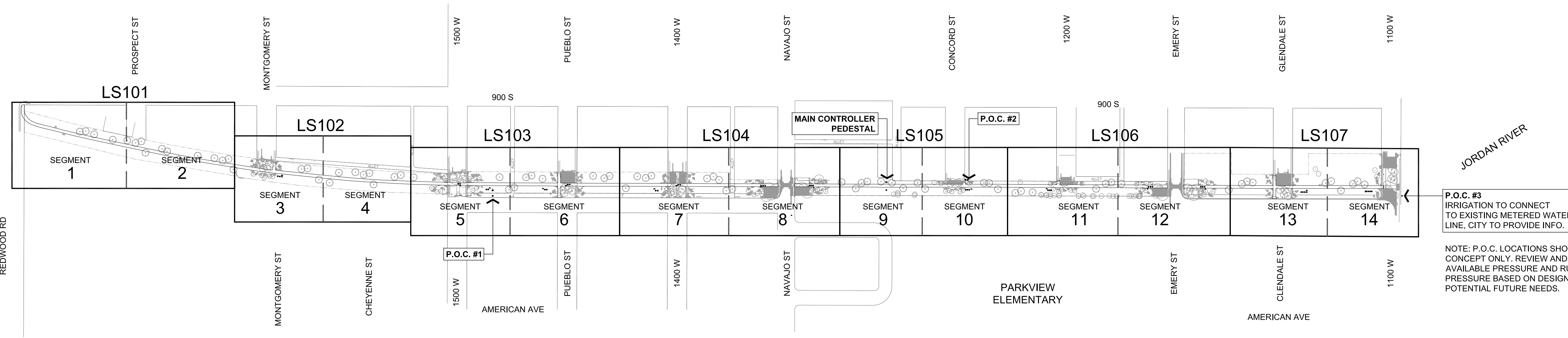
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PREPARER #: 112031
CONTRACT #: 300124
PROJECT #: 106068
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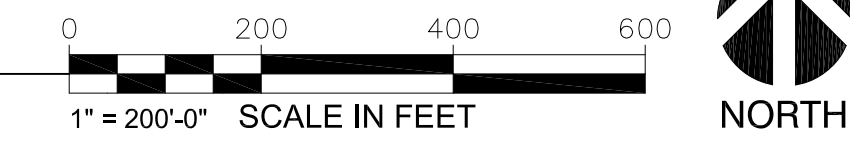
SHEET TITLE:
LAYOUT & MATERIALS PLAN

SHEET IDENTIFIER:
LS107

BINDING ORDER 22 OF 42

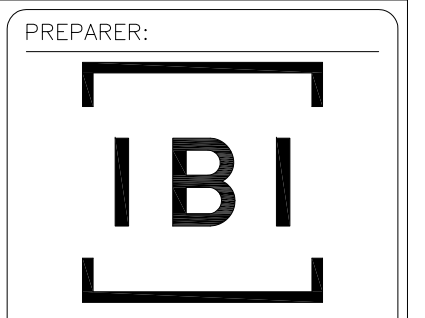


1 OVERALL CONTEXT PLAN
1" = 200'-0"



IRRIGATION NOTES:

1. CONTRACTOR SHALL VERIFY STATIC PRESSURE AND FLOW AT POINT OF CONNECTION AND OPERATING PRESSURE AT EACH HEAD AS INDICATED. INSUFFICIENT PRESSURE CONCERNS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY.
2. ADJUST HEADS/NOZZLES AS NECESSARY TO ENSURE FULL AND COMPLETE SPRINKLER COVERAGE OF ALL PLANTED AREAS. FLUSH AND ADJUST HEADS TO ENSURE NO OVERTHROW ONTO PAVED SURFACES AND STRUCTURES.
3. ALL HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE.
4. ALL VALVES SHALL BE LOCATED IN GROUPS IN THE LOCATIONS SHOWN ON THE DRAWINGS. VALVES SHALL BE LOCATED 3' AWAY FROM ANY FENCE, MOWSTRIP, WALK, CURB, OR BUILDING. CONTRACTOR SHALL SUBMIT PLAN SHOWING FINAL LOCATION OF ALL VALVES AND AUXILIARY EQUIPMENT FOR APPROVAL PRIOR TO INSTALLATION.
5. ALL VALVES SHALL BE WIRED USING #14 MAXI TWO WIRE AND, UNLESS WIRE RUN LENGTHS REQUIRE USE OF LOWER GAUGE WIRE. WIRE RUN LENGTHS SHALL BE VERIFIED IN FIELD, AND APPROPRIATE WIRE GAUGE SHALL BE CONFIRMED WITH MANUFACTURER'S RECOMMENDATIONS. RAIN BIRD DBRY WATER RESISTANT WIRE CONNECTORS SHALL BE USED FOR ALL VALVE WIRE CONNECTIONS.
6. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF THE IRRIGATION SPRINKLER SYSTEM SHOWING EXACT MEASURED AND DIMENSIONED LOCATIONS OF ALL VALVES, WIRE SPLICES NOT IN A VALVE BOX AND DRAIN VALVES. TIE DIMENSIONS TO PERMANENT FEATURES SUCH AS STRUCTURES.
7. COORDINATE IRRIGATION, PLANTING AND ALL OTHER SITE OPERATIONS. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF ALL CONSTRUCTED ITEMS, BUILDINGS, DIFFERENCES IN ACTUAL AND DRAWN DIMENSIONS, UNDERGROUND SERVICES, ETC. PRIOR TO BEGINNING CONSTRUCTION. CALL BLUE STAKES 1-800-662-4111 FOR LOCATION OF UNDERGROUND SERVICES.
8. THE IRRIGATION DESIGN IS SCHEMATIC. ALL PIPING, VALVES, HEADS, ETC. SHOWN OUTSIDE OF THE PLANTING AREA IS FOR GRAPHIC CLARITY ONLY AND SHALL BE INSTALLED WITHIN THE PLANTING AREA.
9. WHERE POSSIBLE, PLACEMENT OF ALL IRRIGATION EQUIPMENT AND TRENCHING FOR PIPING SHALL BE LOCATED OUTSIDE OF THE DRIP LINE OF ALL TREES. TRENCHING OR EXCAVATION FOR IRRIGATION EQUIPMENT WITHIN THE DRIP LINE OF ANY EXISTING TREE SHALL REQUIRE THE USE OF HAND TOOLS OR AIR SPADING WHEN ROOTS LARGER THAN ONE INCH DIAMETER ARE ENCOUNTERED. ANY EXPOSED ROOTS SHALL BE CUT CLEANLY.
10. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF IRRIGATION LAYOUT SHOWS ANY DISCREPANCY BETWEEN DESIGNED IRRIGATION SYSTEM AND ACTUAL SITE CONDITIONS. FOR ANY DECISIONS WHICH ARE DEEMED NECESSARY FOR ADJUSTMENT OF DESIGNED SYSTEM. NO MAJOR CHANGES OR SUBSTITUTIONS SHALL BE MADE TO THE IRRIGATION SYSTEM WITHOUT WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
11. ALL IRRIGATION TRENCHES SHALL BE INSPECTED BY OWNER'S REPRESENTATIVE PRIOR TO BACKFILL. NO BACKFILL SHALL OCCUR WITHOUT INSPECTION.
12. INSTALL SLEEVES AND PIPING IN A PARALLEL OR PERPENDICULAR MANNER, FOLLOWING THE GENERAL LAYOUT OF THE PAVING DESIGN.
13. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES BY A LICENSED LANDSCAPE CONTRACTOR AND EXPERIENCED WORKERS, AND ALL PERMITS SHALL BE OBTAINED AND FEES PAID BY THE CONTRACTOR.
14. NO CHANGES IN MATERIALS SHALL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE.
15. THE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM DURING THE MAINTENANCE PERIOD.
16. INSTALL REMOTE CONTROL VALVES IN RAIN BIRD OR EQUAL PLASTIC VALVE BOX WITH LOCKING LID USING PENTA BOLTS. LOCATE VALVE BOXES IN LANDSCAPE AREA ONLY, PARALLEL AND PERPENDICULAR TO ADJACENT CURB OR WALK. VALVE BOXES TO BE LOCATED 12" MIN. FROM CONCRETE CURBS OR WALKS. SUPPLY OWNER WITH 2 PENTA BOLT WRENCHES.
17. ALL HEADS SHALL BE LOCATED 2" FROM PAVING OR CURBS AS INDICATED.
18. INSTALL QUICK COUPLER A MINIMUM OF 12" FROM PAVING OR CURBS WITH DOUBLE SWING ASSEMBLY ON SCHEDULE 80 PVC ELLS AND NIPPLES. SUPPLY OWNER WITH 2 SETS OF QUICK COUPLER VALVE KEYS.
19. IRRIGATION SYSTEM SHALL BE GUARANTEED FOR 1 YEAR AGAINST ANY DEFECT OF MATERIAL OR WORKMANSHIP. CONTRACTOR SHALL REPAIR ANY WORK WITHIN 10 WORKING DAYS DURING THE GUARANTEE PERIOD AT NO COST TO THE OWNER.
20. RELOCATED TREES ARE CURRENTLY SHOWN TO BE WATERED BY TURF AREA IRRIGATION HEADS, OR BY HAND AS NECESSARY FOR ESTABLISHMENT. USE OF TREE BUBBLERS TO BE APPROVED BY OWNER'S REPRESENTATIVE.
21. CONTRACTOR TO PROVIDE INDEPENDENT IRRIGATION AUDIT AT SUBSTANTIAL COMPLETION PER SPEC REQUIREMENT. CONTRACTOR IS RESPONSIBLE TO PROVIDE SYSTEM THAT COMPLIES WITH THE REQUIREMENTS LISTED IN THE SPEC, BASED ON THE IRRIGATION DESIGN AND NECESSARY ADJUSTMENTS REQUIRED BY CONDITIONS IN THE FIELD.



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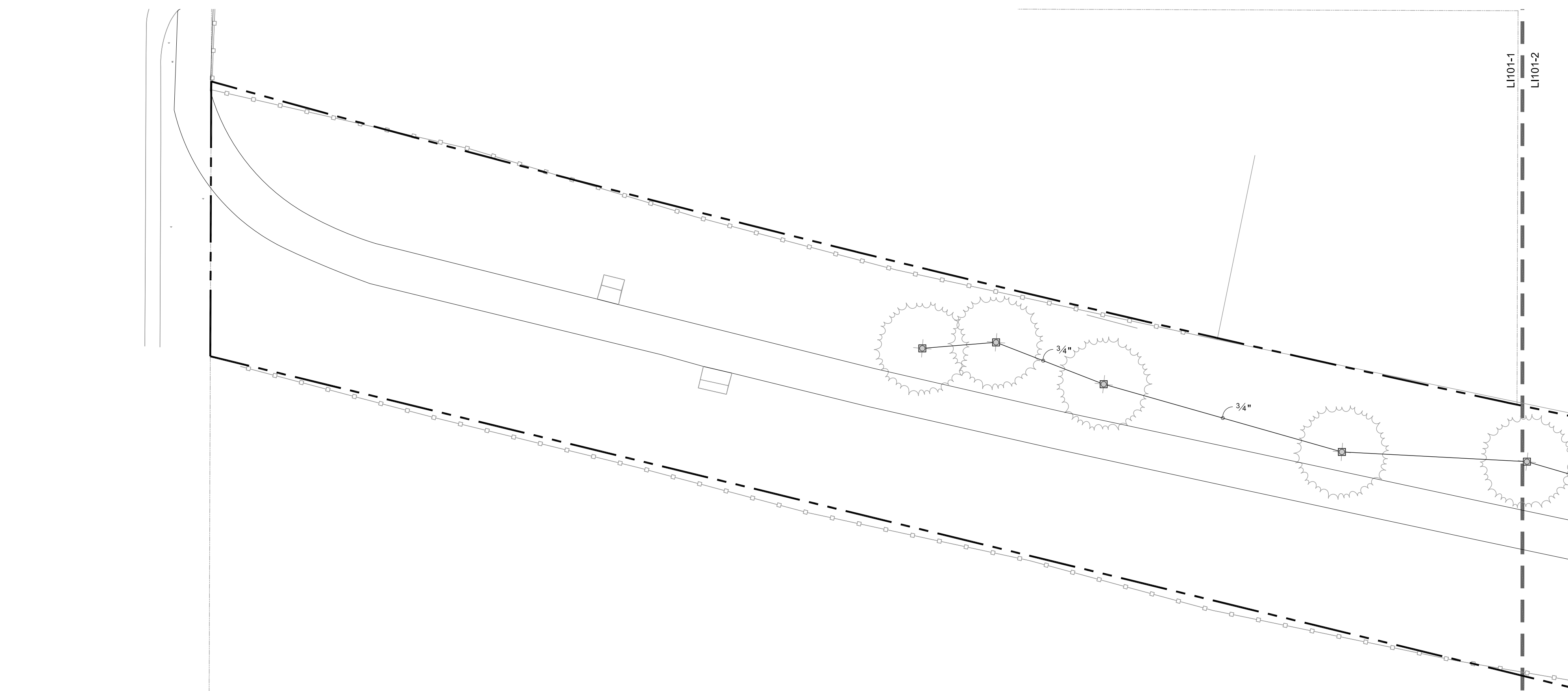
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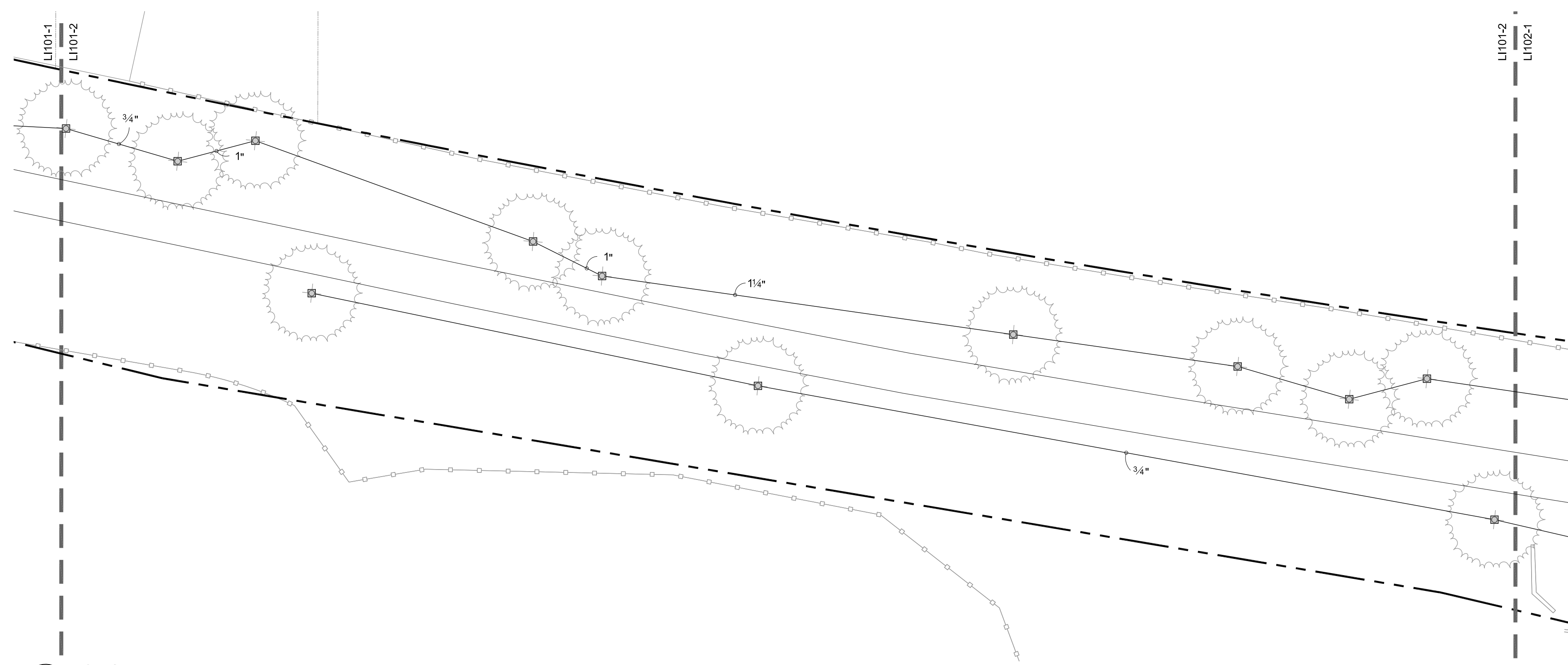
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PROJECT #: 106068
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SHEET TITLE:
OVERALL IRRIGATION PLAN

SHEET IDENTIFIER:
LI100
BINDING ORDER 23 OF 42



1 SEGMENT 1
1" = 20'-0"



2 SEGMENT 2
1" = 20'-0"

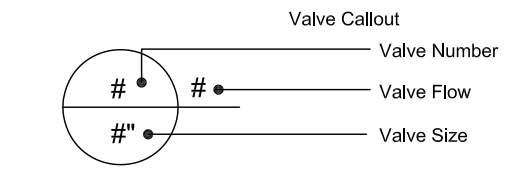
IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	QTY	PRECIP	PSI	GPM
	SHRUB ROTATOR (HUNTER) 12' TO 30' RADIUS (3.7M-9.1M), TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.	44,016 S.F.	0.45 in/h	40	206
	TURF ROTATOR (HUNTER) 12' TO 30' RADIUS (3.7M-9.1M), 5' X 15' FOR PARK STRIP, TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.	13,042 S.F.	0.45 in/h	40	61

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	ROOT WATERING SYSTEM SALT LAKE CITY STANDARD TREE ROOT WATERING SYSTEM. TWO RAIN BIRD RWS-M-B-1401 WITH RWS-SOCK, AND TWO RAIN BIRD 1401 BUBBLERS. SEE DETAIL.	214	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD PEB 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	30
	RAIN BIRD 44-RC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.	12
	NIBCO T-113-K CLASS 125 BRONZE GATE SHUT OFF VALVE WITH CROSS HANDLE. SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4" - 3"	15
	ZURN 975XL 1-1/2" REDUCED PRESSURE BACKFLOW DEVICE	2
	RAIN BIRD ESP-LXD-LXMSS-LXMSSPED 50 STATION 2-WIRE, EXTERIOR STAINLESS STEEL PEDESTAL. FLOW SENSING.	1
	NETAFIM HYDROMETER 1-1/2" MASTER VALVE/FLOW SENSOR WITH WATER METER AND HYDRAULIC VALVE IN A SINGLE UNIT. CAST IRON WITH BAKED POWDER-COATED FINISH. MINIMUM WORKING PRESSURE 14 PSI. MALE PIPE THREAD CONNECTION. ELECTRONIC DIGITAL REGISTER, HIGH FREQUENCY. PROVIDE COMPATIBLE RAIN BIRD DECODER.	2
	WATER METER 1-1/2"	1
	WATER METER 1-1/2"	1
	POINT OF CONNECTION 2" CONNECT TO EXISTING PIPE. COORDINATE WITH OWNER.	1

IRRIGATION LATERAL LINE: PVC SCHEDULE 40
IRRIGATION MAINLINE: PVC SCHEDULE 40
PIPE SLEEVE: PVC CLASS 200 SDR 21



NOTE: IRRIGATION PIPING AND EQUIPMENT IS SHOWN IN PAVED AREAS FOR GRAPHIC CLARITY ONLY. LOCATE ALL PIPES AND EQUIPMENT IN LANDSCAPE AREAS WHERE POSSIBLE. ALL PIPES UNDER PAVEMENT SHALL BE SLEEVED. FINAL LOCATIONS OF ALL VALVES SHALL BE APPROVED BY LANDSCAPE ARCHITECT.

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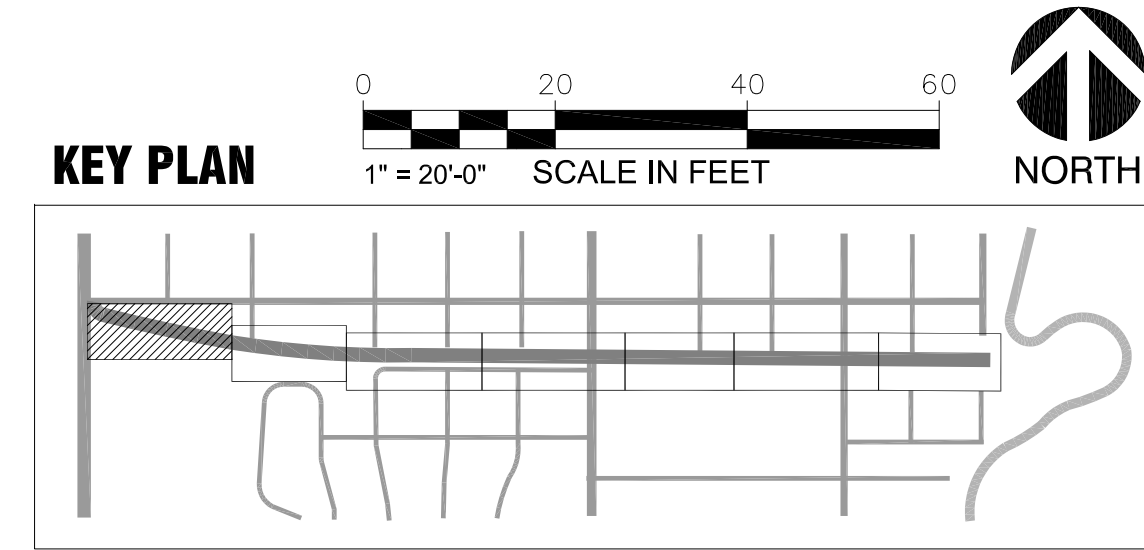
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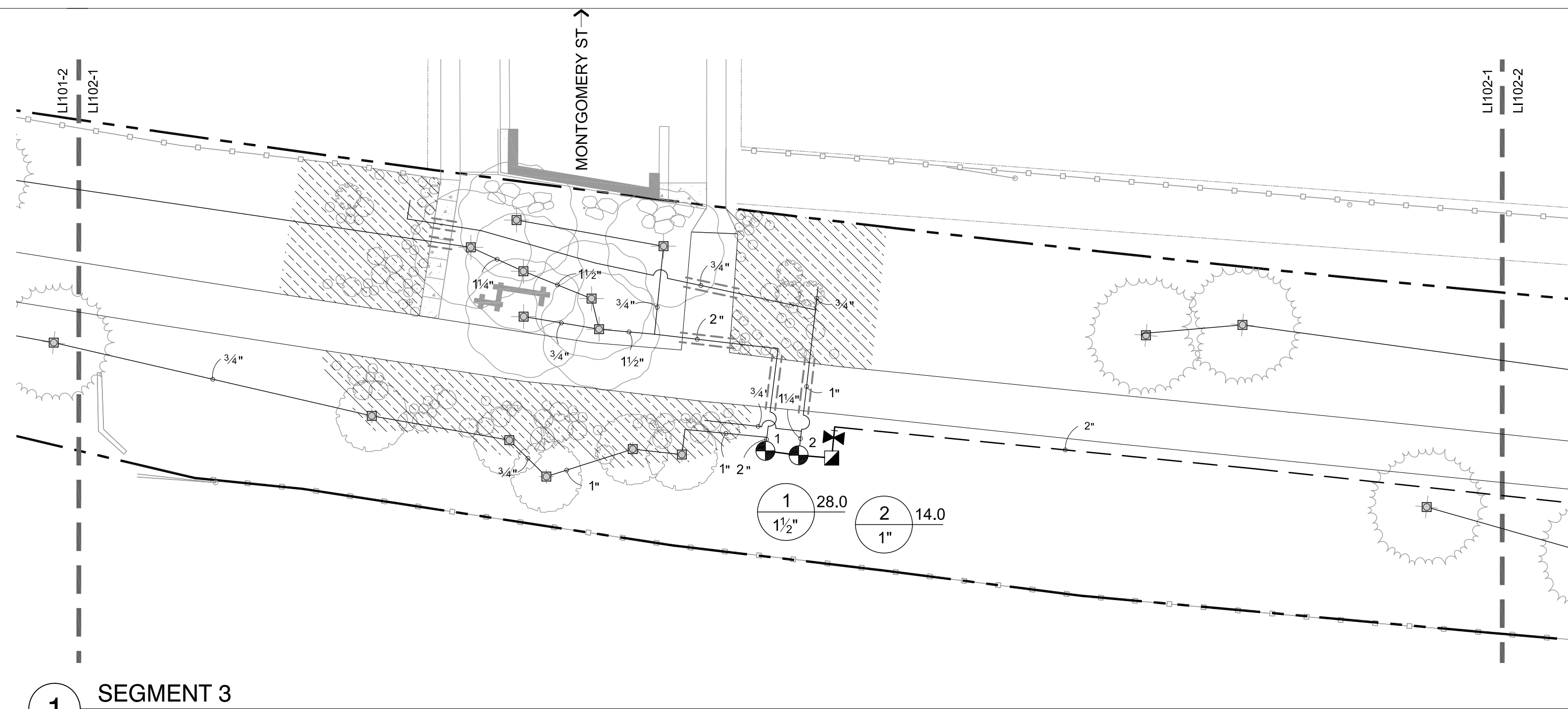
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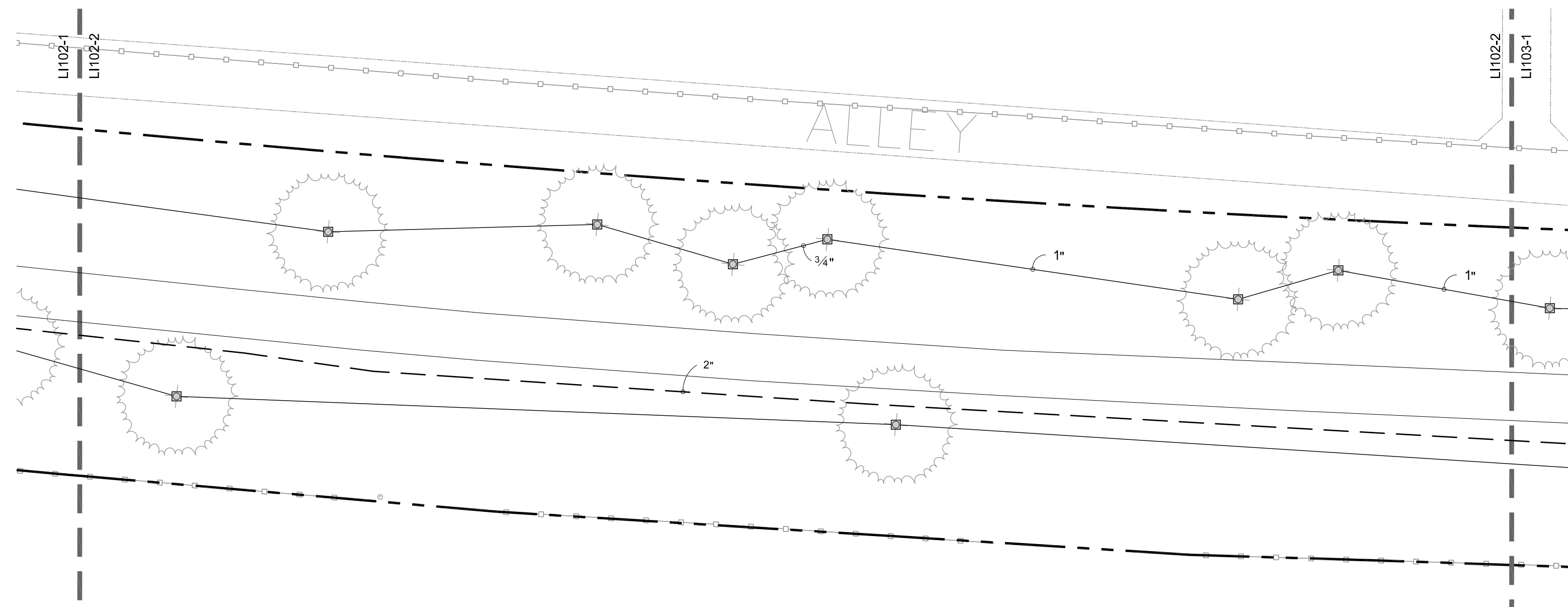
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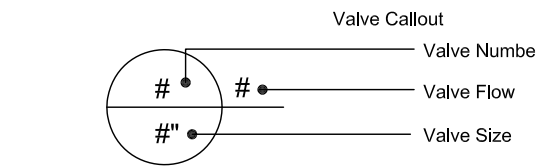
1 SEGMENT 3
1" = 20'-0"



2 SEGMENT 4
1" = 20'-0"

IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	QTY	PRECIP	PSI	GPM
	SHRUB ROTATOR (HUNTER) 12' TO 30' RADIUS (3.7M-9.1M), TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.	44,016 S.F.	0.45 in/h	40	206
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SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI		
	ROOT WATERING SYSTEM SALT LAKE CITY STANDARD TREE ROOT WATERING SYSTEM, TWO RAIN BIRD RWS-M-B-1401 WITH RWS-SOCK, AND TWO RAIN BIRD 1401 BUBBLERS. SEE DETAIL.	214	40		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
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	NIBCO T-113-K CLASS 125 BRONZE GATE SHUT OFF VALVE WITH CROSS HANDLE. SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4" - 3"	15			
	ZURN 975XL 1-1/2" REDUCED PRESSURE BACKFLOW DEVICE	2			
	RAIN BIRD ESP-LXD-LXMMSS-LXMMSSPED 50 STATION 2-WIRE, EXTERIOR STAINLESS STEEL PEDESTAL, FLOW SENSING.	1			
	NETAFIM HYDROMETER 1-1/2" MASTER VALVE/FLOW SENSOR WITH WATER METER AND HYDRAULIC VALVE IN A SINGLE UNIT. CAST IRON WITH BAKED POWDER-COATED FINISH, MINIMUM WORKING PRESSURE 14 PSI, MALE PIPE THREAD CONNECTION, ELECTRONIC DIGITAL REGISTER, HIGH FREQUENCY, PROVIDE COMPATIBLE RAIN BIRD DECODER.	2			
	WATER METER 1-1/2"	1			
	WATER METER 1-1/2"	1			
	POINT OF CONNECTION 2" CONNECT TO EXISTING PIPE. COORDINATE WITH OWNER.	1			
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40				
	IRRIGATION MAINLINE: PVC SCHEDULE 40				
	PIPE SLEEVE: PVC CLASS 200 SDR 21				



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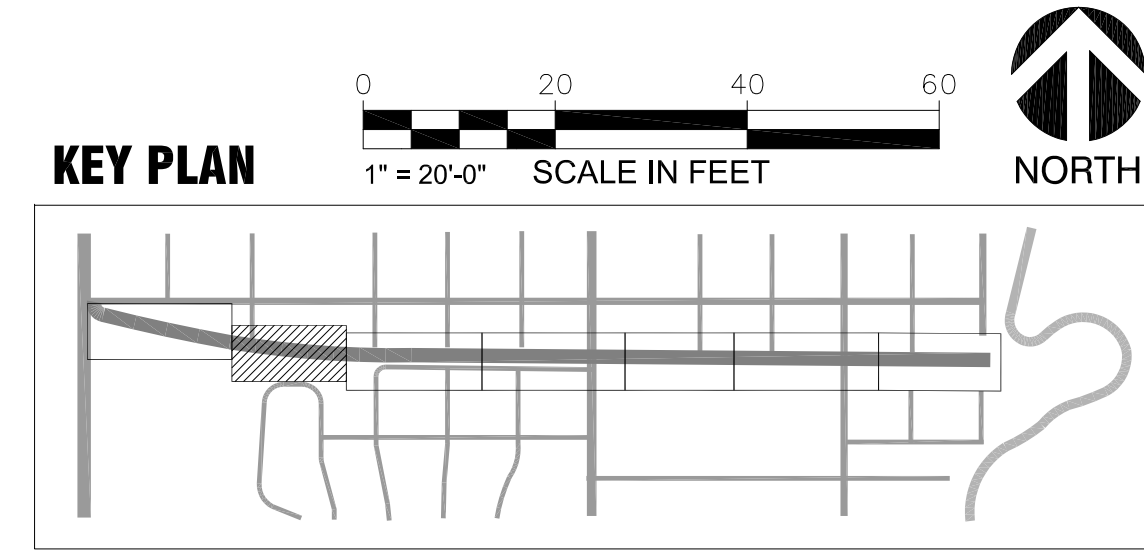
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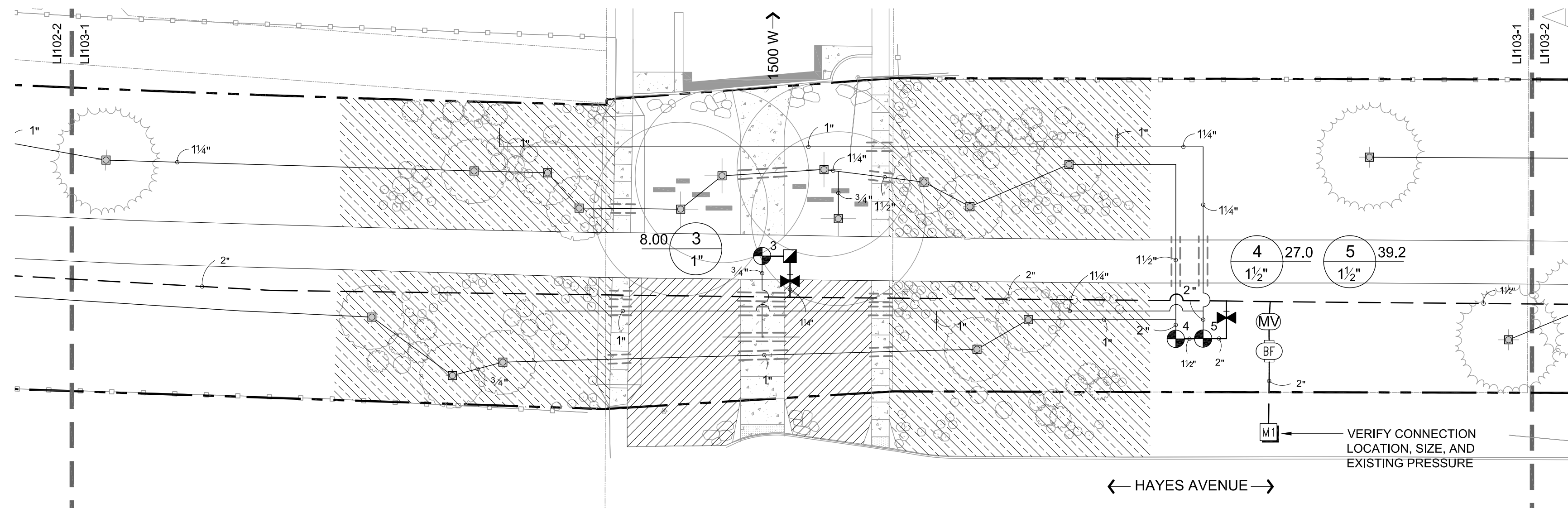
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SHEET TITLE:
IRRIGATION PLAN

SHEET IDENTIFIER:
LI102
BINDING ORDER 25 OF 42





CRITICAL ANALYSIS

P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Water Meter Size: 1-1/2"
Flow Available: 75.00 gpm

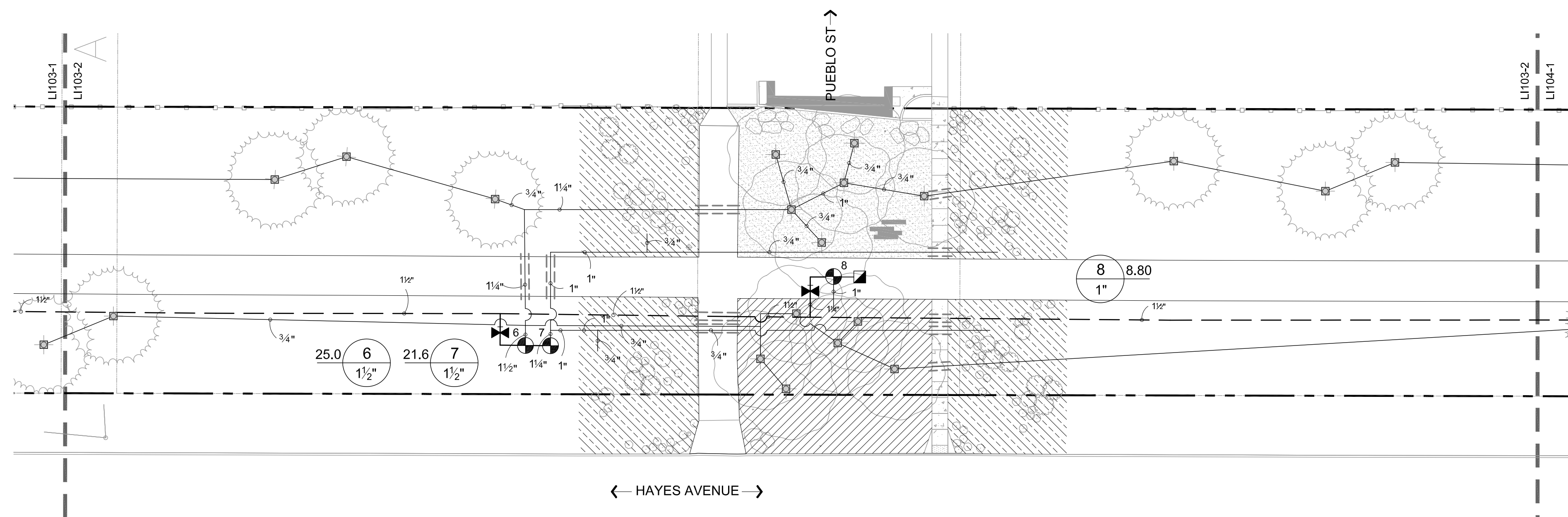
PRESSURE AVAILABLE
Static Pressure at POC: 80.00 psi
Elevation Change: 2.00 ft
Service Line Size: 3"
Length of Service Line: 20.00 ft
Pressure Available: 79.00 psi

DESIGN ANALYSIS
Maximum Station Flow: 38.45 gpm
Flow Available at POC: 75.00 gpm
Residual Flow Available: 36.55 gpm

Critical Station: 8
Design Pressure: 40.00 psi
Friction Loss: 7.26 psi
Fittings Loss: 0.73 psi
Elevation Loss: 0.00 psi
Loss through Valve: 3.75 psi
Pressure Req. at Critical Station: 51.74 psi
Loss for Fittings: 0.98 psi
Loss for Main Line: 9.80 psi
Loss for POC to Valve Elevation: 0.00 psi
Loss for Backflow: 13.40 psi
Loss for Water Meter: 1.30 psi
Critical Station Pressure at POC: 77.22 psi
Pressure Available: 79.00 psi
Residual Pressure Available: 1.78 psi

VERIFY CONNECTION LOCATION, SIZE, AND EXISTING PRESSURE

1 SEGMENT 5
1" = 20'-0"

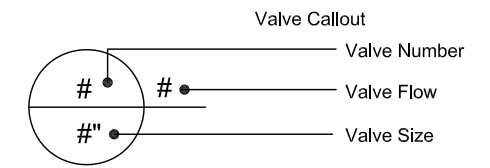


2 SEGMENT 6
1" = 20'-0"

IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	QTY	PRECIP	PSI	GPM
	SHRUB ROTATOR (HUNTER) 12' TO 30' RADIUS (3.7M-9.1M), TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.	44,016 S.F.	0.45 in/h	40	206
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	ZURN 975XL 1-1/2" REDUCED PRESSURE BACKFLOW DEVICE	2			
	RAIN BIRD ESP-LXD-LXMSS-LXMSSPED 50 STATION 2-WIRE, EXTERIOR STAINLESS STEEL PEDESTAL, FLOW SENSING.	1			
	NETAFIM HYDROMETER 1-1/2" MASTER VALVE/FLOW SENSOR WITH WATER METER AND HYDRAULIC VALVE IN A SINGLE UNIT. CAST IRON WITH BAKED POWDER-COATED FINISH, MINIMUM WORKING PRESSURE 14 PSI, MALE PIPE THREAD CONNECTION, ELECTRONIC DIGITAL REGISTER, HIGH FREQUENCY, PROVIDE COMPATIBLE RAIN BIRD DECODER.	2			
	WATER METER 1-1/2"	1			
	WATER METER 1-1/2"	1			
	POINT OF CONNECTION 2" CONNECT TO EXISTING PIPE. COORDINATE WITH OWNER.	1			
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40				
	IRRIGATION MAINLINE: PVC SCHEDULE 40				
	PIPE SLEEVE: PVC CLASS 200 SDR 21				

NOTE: IRRIGATION PIPING AND EQUIPMENT IS SHOWN IN PAVED AREAS FOR GRAPHIC CLARITY ONLY. LOCATE ALL PIPES AND EQUIPMENT IN LANDSCAPE AREAS WHERE POSSIBLE. ALL PIPES UNDER PAVEMENT SHALL BE SLEEVED. FINAL LOCATIONS OF ALL VALVES SHALL BE APPROVED BY LANDSCAPE ARCHITECT.



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PROJECT IDENTIFICATION:
9-LINE CORRIDOR IMPROVEMENTS 70% DOCUMENTS

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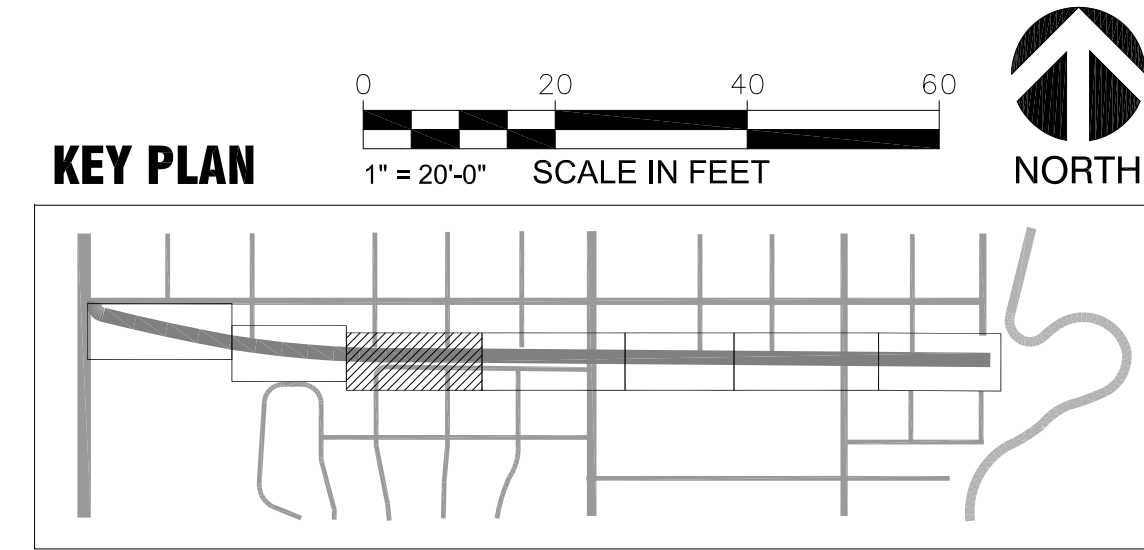
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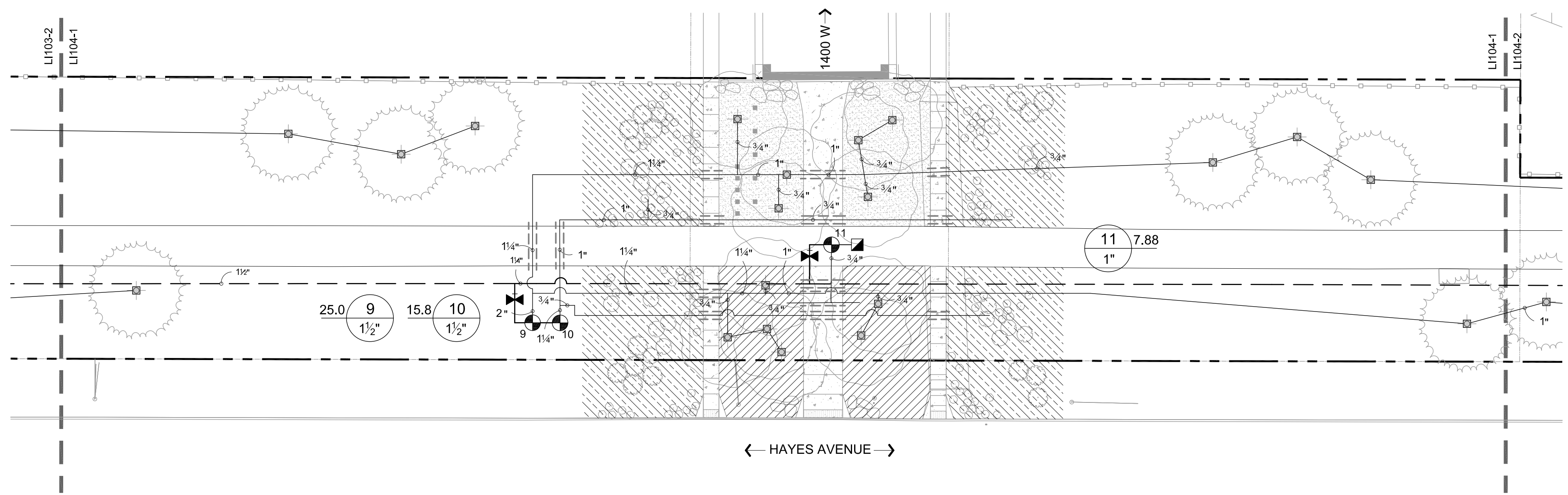
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CONTRACT #: 300124
PROJECT #: 106068
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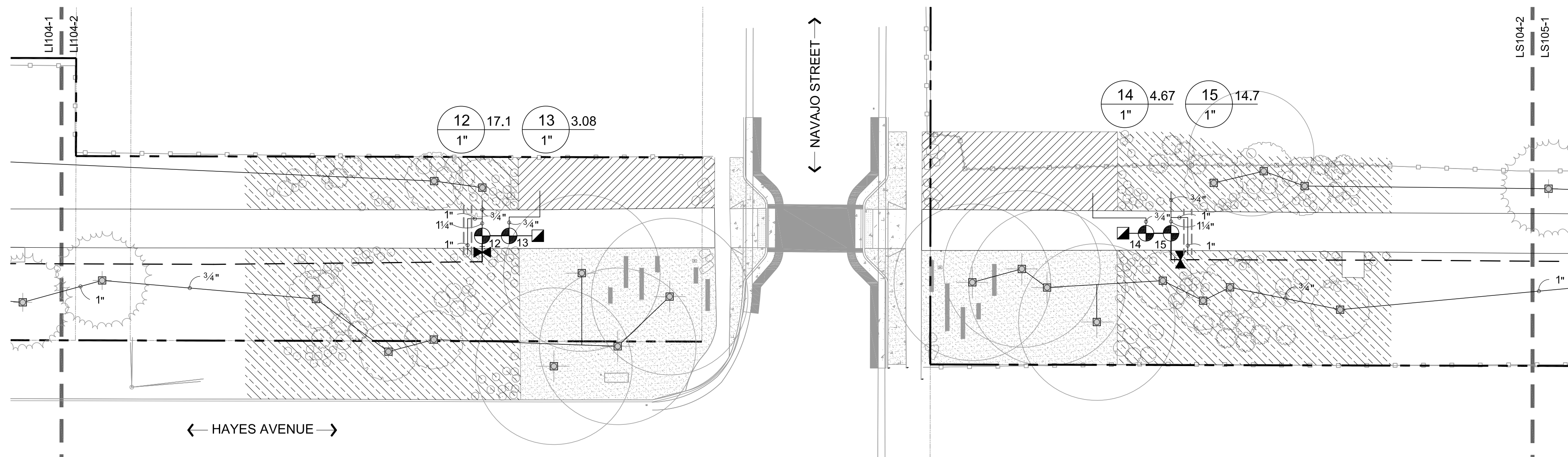
SHEET TITLE:
IRRIGATION PLAN

SHEET IDENTIFIER:
LI103
BINDING ORDER 26 OF 42





1 SEGMENT 7
1" = 20'-0"



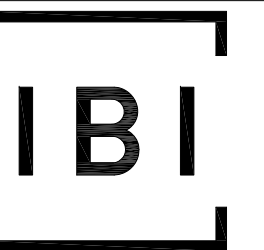
2 SEGMENT 8
1" = 20'-0"

IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	QTY	PRECIP	PSI	GPM
	SHRUB ROTATOR (HUNTER) 12' TO 30' RADIUS (3.7M-9.1M), TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.	44,016 S.F.	0.45 in/h	40	206
	TURF ROTATOR (HUNTER) 12' TO 30' RADIUS (3.7M-9.1M), 5' X 15' FOR PARK STRIP, TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.	13,042 S.F.	0.45 in/h	40	61
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI		
	ROOT WATERING SYSTEM SALT LAKE CITY STANDARD TREE ROOT WATERING SYSTEM, TWO RAIN BIRD RWS-M-B-1401 WITH RWS-SOCK, AND TWO RAIN BIRD 1401 BUBBLERS. SEE DETAIL.	214	40		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
	RAIN BIRD PEB 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	30			
	RAIN BIRD 44-RC 1" BRASS QUICK-COUPING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.	12			
	NIBCO T-113-K CLASS 125 BRONZE GATE SHUT OFF VALVE WITH CROSS HANDLE. SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4" - 3"	15			
	ZURN 975XL 1-1/2" REDUCED PRESSURE BACKFLOW DEVICE	2			
	RAIN BIRD ESP-LXD-LXMMSS-LXMMSSPED 50 STATION 2-WIRE, EXTERIOR STAINLESS STEEL PEDESTAL, FLOW SENSING.	1			
	NETAFIM HYDROMETER 1-1/2" MASTER VALVE/FLOW SENSOR WITH WATER METER AND HYDRAULIC VALVE IN A SINGLE UNIT. CAST IRON WITH BAKED POWDER-COATED FINISH, MINIMUM WORKING PRESSURE 14 PSI, MALE PIPE THREAD CONNECTION, ELECTRONIC DIGITAL REGISTER, HIGH FREQUENCY, PROVIDE COMPATIBLE RAIN BIRD DECODER.	2			
	WATER METER 1-1/2"	1			
	WATER METER 1-1/2"	1			
	POINT OF CONNECTION 2" CONNECT TO EXISTING PIPE. COORDINATE WITH OWNER.	1			
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40				
	IRRIGATION MAINLINE: PVC SCHEDULE 40				
	PIPE SLEEVE: PVC CLASS 200 SDR 21				
Valve Callout					
	Valve Number				
	Valve Flow				
	Valve Size				

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MARK	DATE	DESCRIPTION

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CONTRACT #:	300124
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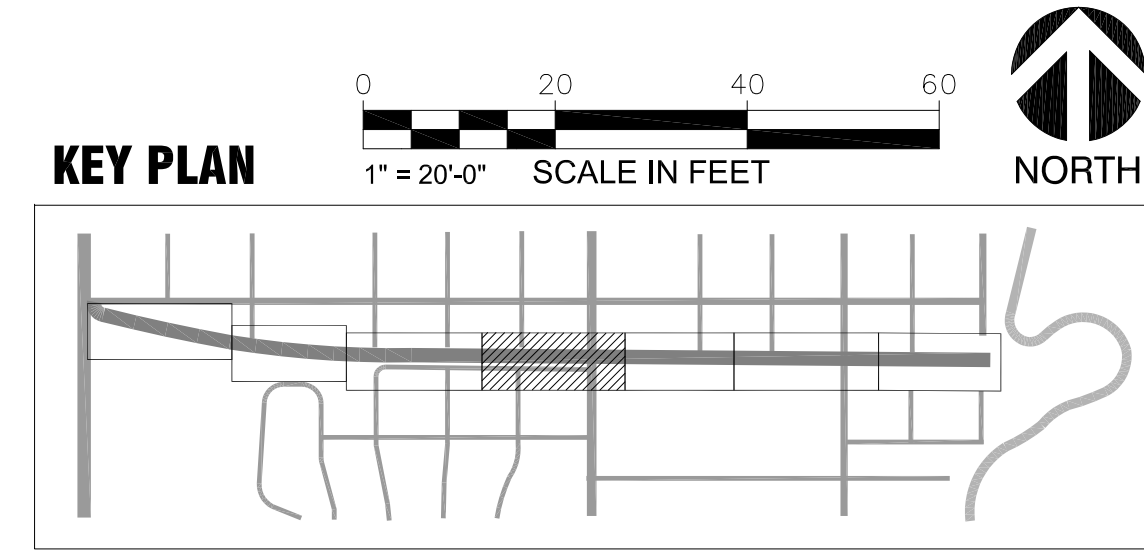
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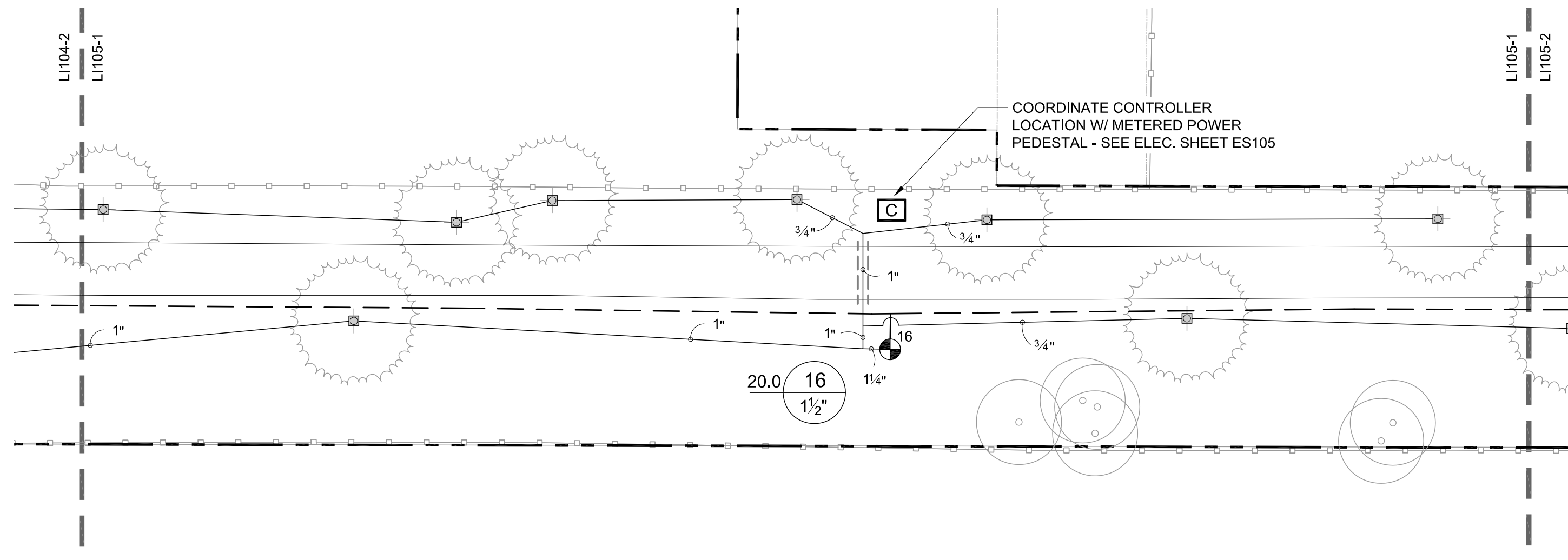
IRRIGATION PLAN

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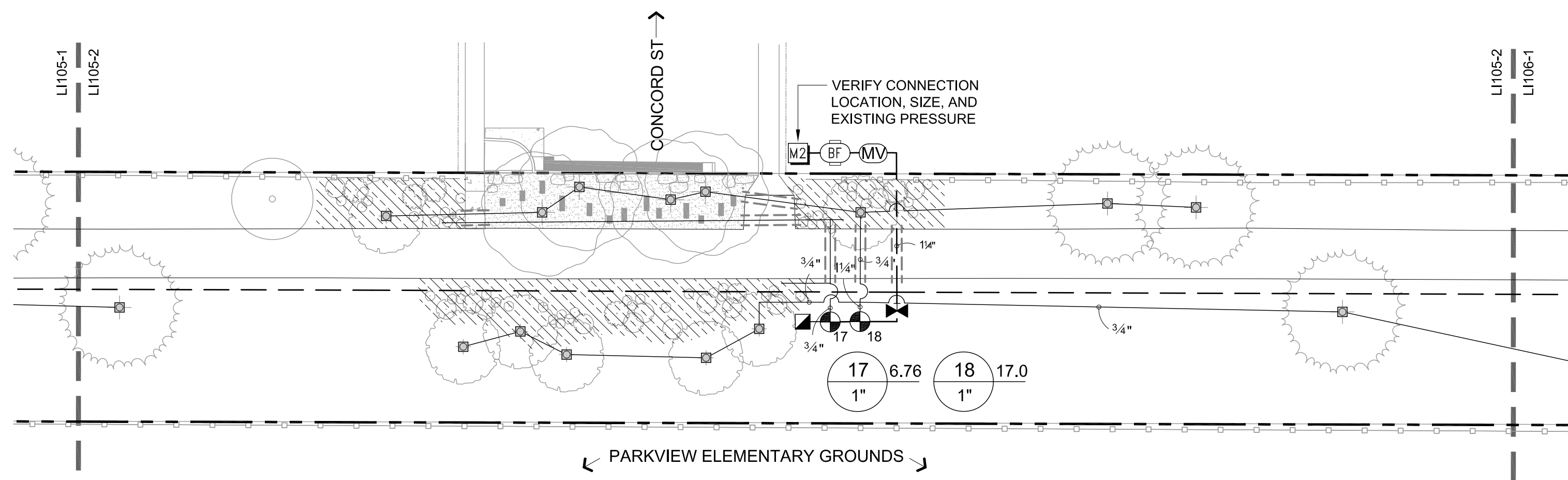
LI104

BINDING ORDER 27 OF 42





1 SEGMENT 9
1" = 20'-0"



2 SEGMENT 10
1" = 20'-0"

CRITICAL ANALYSIS

P.O.C. NUMBER: 02
Water Source Information:

FLOW AVAILABLE
Water Meter Size: 1-1/2"
Flow Available: 75.00 gpm

PRESSURE AVAILABLE
Static Pressure at POC: 80.00 psi
Elevation Change: 2.00 ft
Service Line Size: 2"
Length of Service Line: 20.00 ft
Pressure Available: 78.00 psi

DESIGN ANALYSIS
Maximum Station Flow: 22.00 gpm
Flow Available at POC: 75.00 gpm
Residual Flow Available: 53.00 gpm

Critical Station: 15
Design Pressure: 40.00 psi
Friction Loss: 6.16 psi
Fittings Loss: 0.62 psi
Elevation Loss: 0.00 psi
Loss through Valve: 3.90 psi
Pressure Req. at Critical Station: 50.67 psi
Loss for Fittings: 0.83 psi
Loss for Main Line: 8.26 psi
Loss for POC to Valve Elevation: 0.00 psi
Loss for Backflow: 13.40 psi
Loss for Water Meter: 0.80 psi
Critical Station Pressure at POC: 73.96 psi
Pressure Available: 78.00 psi
Residual Pressure Available: 4.04 psi

IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	QTY	PRECIP	PSI	GPM
	SHRUB ROTATOR (HUNTER) 12' TO 30' RADIUS (3.7M-9.1M), TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.	44,016 S.F.	0.45 in/h	40	206
	TURF ROTATOR (HUNTER) 12' TO 30' RADIUS (3.7M-9.1M), 5' X 15' FOR PARK STRIP, TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.	13,042 S.F.	0.45 in/h	40	61
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI		
	ROOT WATERING SYSTEM SALT LAKE CITY STANDARD TREE ROOT WATERING SYSTEM. TWO RAIN BIRD RWS-M-B-1401 WITH RWS-SOCK, AND TWO RAIN BIRD 1401 BUBBLERS. SEE DETAIL.	214	40		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
	RAIN BIRD PEB 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	30			
	RAIN BIRD 44-RC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.	12			
	NIBCO T-113-K CLASS 125 BRONZE GATE SHUT OFF VALVE WITH CROSS HANDLE. SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4" - 3"	15			
	ZURN 975XL 1-1/2" REDUCED PRESSURE BACKFLOW DEVICE	2			
	RAIN BIRD ESP-LXD-LXMMSS-LXMMSSPED 50 STATION 2-WIRE, EXTERIOR STAINLESS STEEL PEDESTAL. FLOW SENSING.	1			
	NETAFIM HYDROMETER 1-1/2" MASTER VALVE/FLOW SENSOR WITH WATER METER AND HYDRAULIC VALVE IN A SINGLE UNIT. CAST IRON WITH BAKED POWDER-COATED FINISH. MINIMUM WORKING PRESSURE 14 PSI. MALE PIPE THREAD CONNECTION. ELECTRONIC DIGITAL REGISTER, HIGH FREQUENCY. PROVIDE COMPATIBLE RAIN BIRD DECODER.	2			
	WATER METER 1-1/2"	1			
	WATER METER 1-1/2"	1			
	POINT OF CONNECTION 2" CONNECT TO EXISTING PIPE. COORDINATE WITH OWNER.	1			
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40				
	IRRIGATION MAINLINE: PVC SCHEDULE 40				
	PIPE SLEEVE: PVC CLASS 200 SDR 21				
	Valve Callout				
	Valve Number				
	Valve Flow				
	Valve Size				

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SALT LAKE CITY CORPORATION

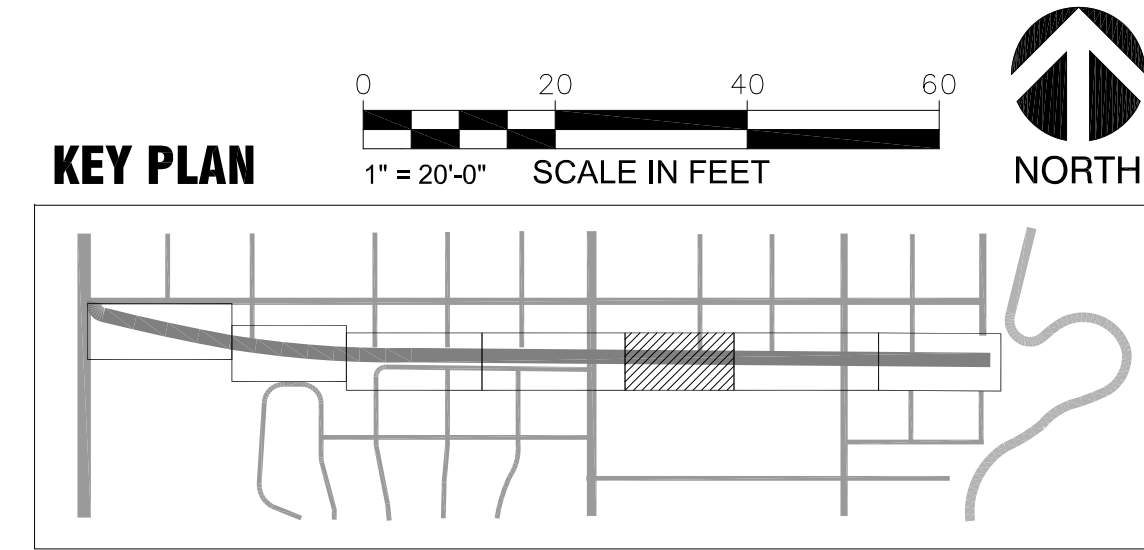
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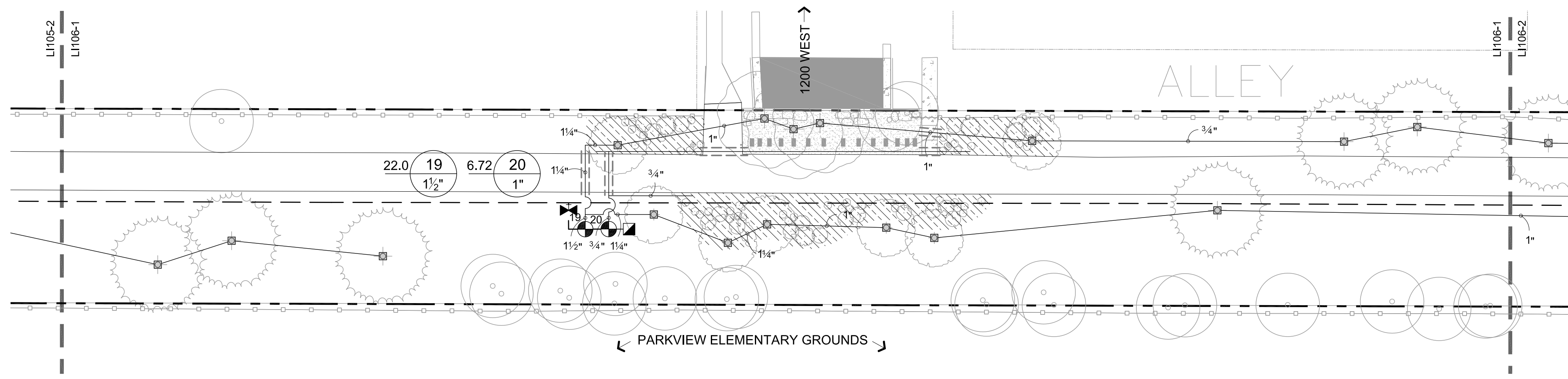
MARK	DATE	DESCRIPTION

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CONTRACT #: 300124
PROJECT #: 106068
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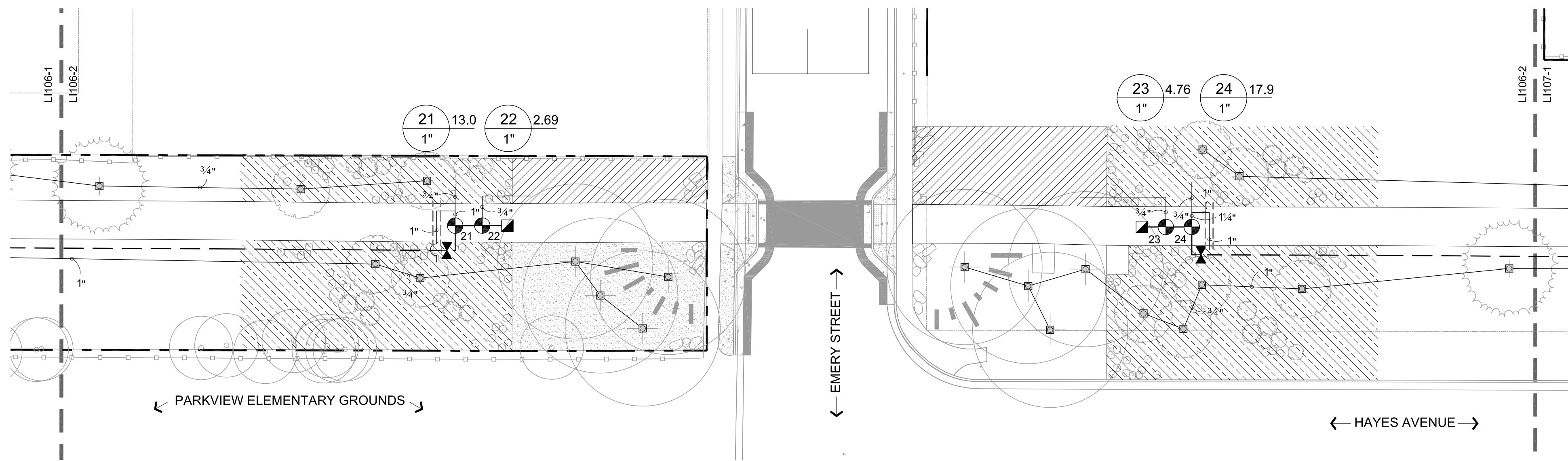
SHEET TITLE:
IRRIGATION PLAN

SHEET IDENTIFIER:
LI105
BINDING ORDER 28 OF 42





1 SEGMENT 11
1" = 20'-0"

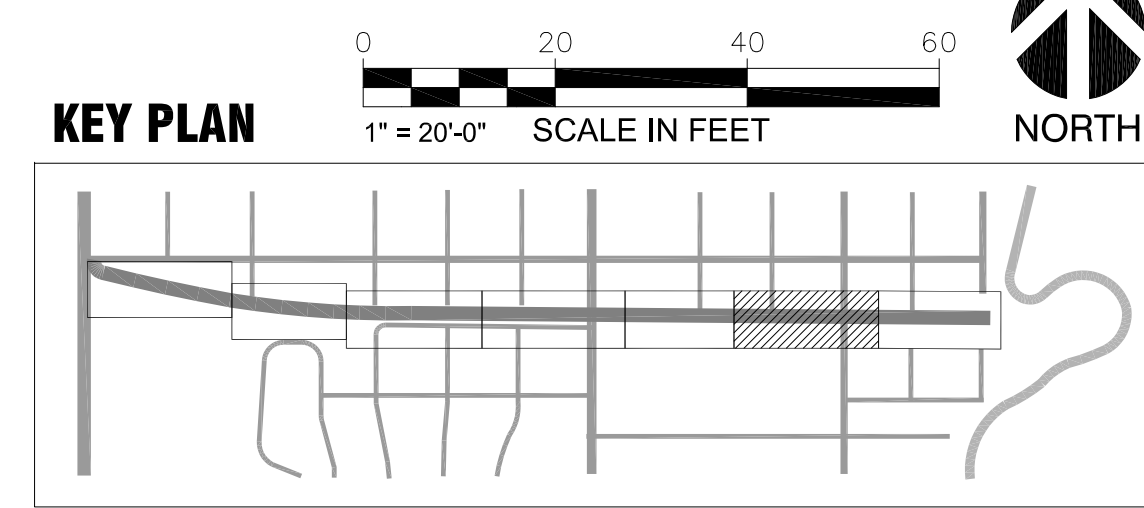
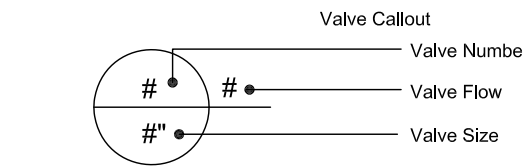


2 SEGMENT 12
1" = 20'-0"

IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	QTY	PRECIP	PSI	GPM
	SHRUB ROTATOR (HUNTER) 12' TO 30' RADIUS (3.7M-9.1M), TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.	44,016 S.F.	0.45 in/h	40	206
	TURF ROTATOR (HUNTER) 12' TO 30' RADIUS (3.7M-9.1M), 5' X 15' FOR PARK STRIP, TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.	13,042 S.F.	0.45 in/h	40	61
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI		
	ROOT WATERING SYSTEM SALT LAKE CITY STANDARD TREE ROOT WATERING SYSTEM, TWO RAIN BIRD RWS-M-B-1401 WITH RWS-SOCK, AND TWO RAIN BIRD 1401 BUBBLERS. SEE DETAIL.	214	40		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
	RAIN BIRD PEB 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	30			
	RAIN BIRD 44-RC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.	12			
	NIBCO T-113-K CLASS 125 BRONZE GATE SHUT OFF VALVE WITH CROSS HANDLE. SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4" - 3"	15			
	ZURN 975XL 1-1/2" REDUCED PRESSURE BACKFLOW DEVICE	2			
	RAIN BIRD ESP-LXD-LXMSS-LXMSSPED 50 STATION 2-WIRE, EXTERIOR STAINLESS STEEL PEDESTAL, FLOW SENSING.	1			
	NETAFIM HYDROMETER 1-1/2" MASTER VALVE/FLOW SENSOR WITH WATER METER AND HYDRAULIC VALVE IN A SINGLE UNIT. CAST IRON WITH BAKED POWDER-COATED FINISH, MINIMUM WORKING PRESSURE 14 PSI, MALE PIPE THREAD CONNECTION, ELECTRONIC DIGITAL REGISTER, HIGH FREQUENCY, PROVIDE COMPATIBLE RAIN BIRD DECODER.	2			
	WATER METER 1-1/2"	1			
	WATER METER 1-1/2"	1			
	POINT OF CONNECTION 2" CONNECT TO EXISTING PIPE. COORDINATE WITH OWNER.	1			
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40				
	IRRIGATION MAINLINE: PVC SCHEDULE 40				
	PIPE SLEEVE: PVC CLASS 200 SDR 21				

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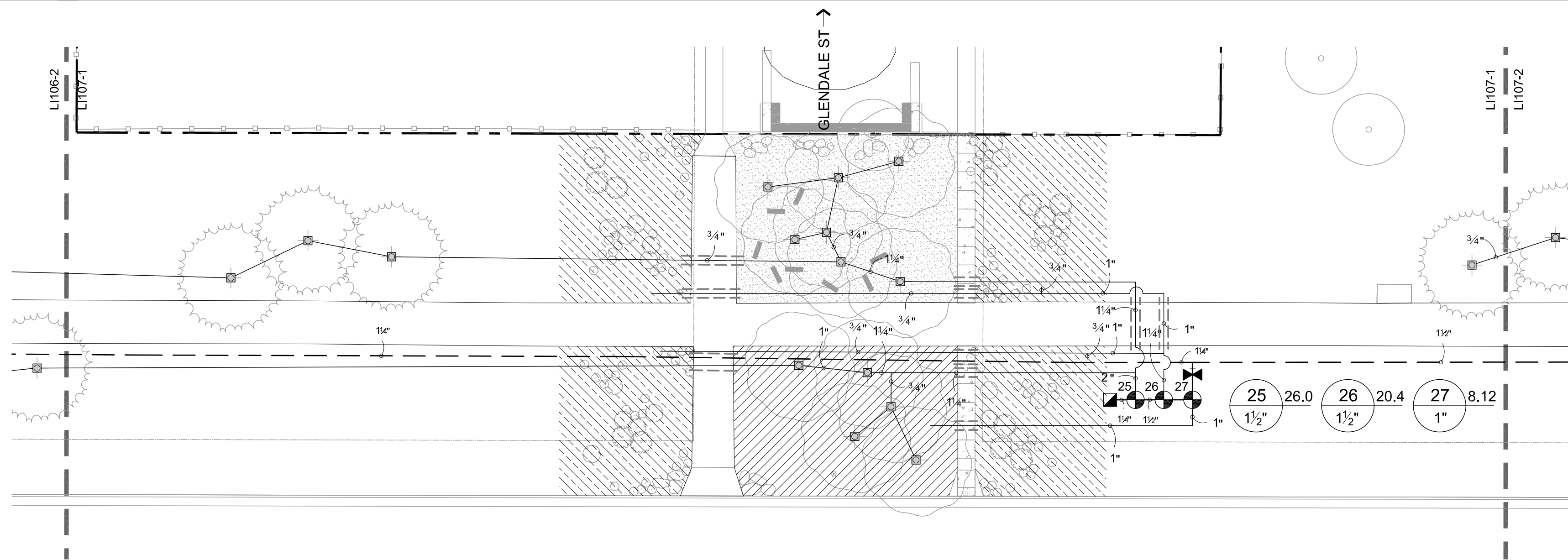
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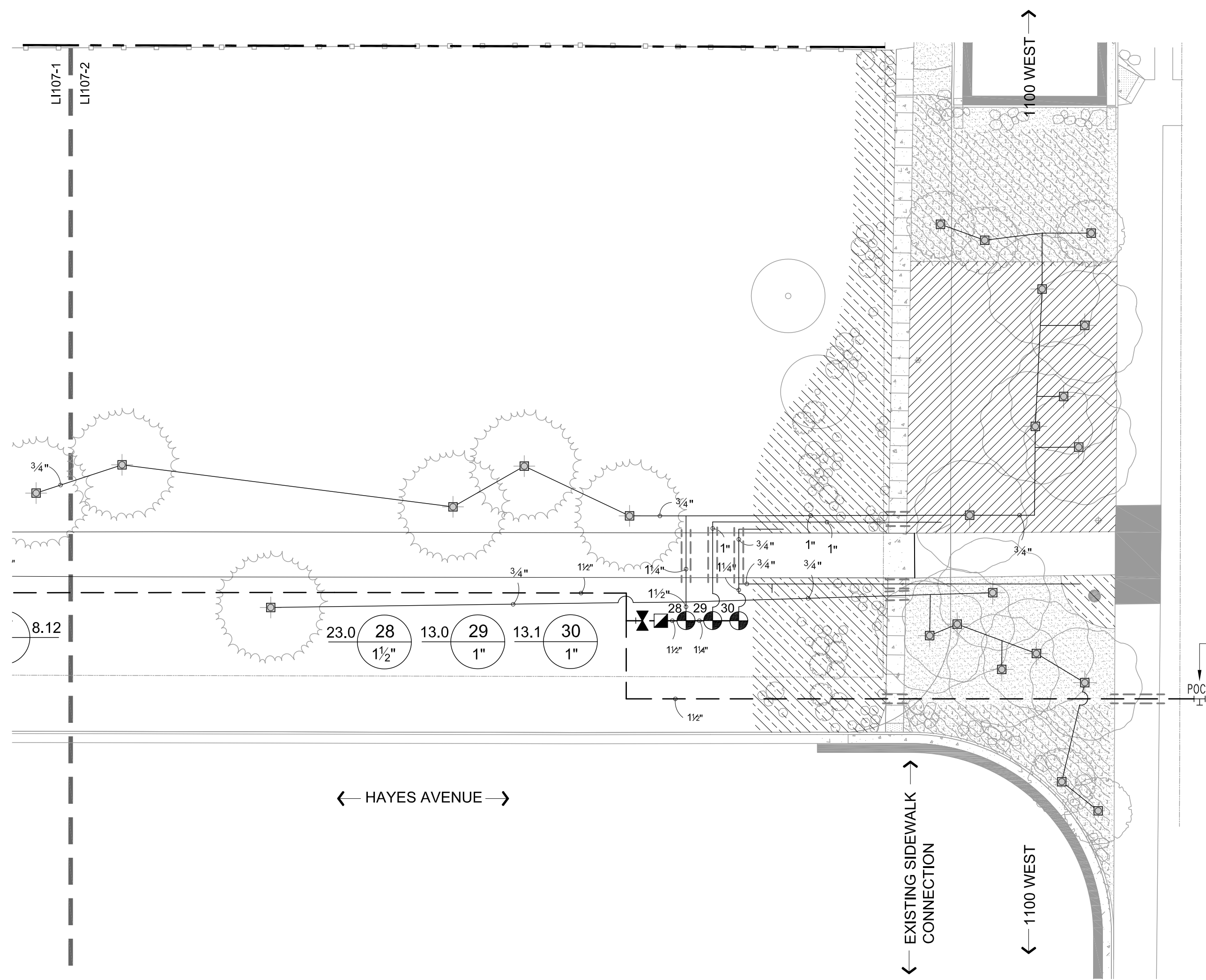
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SHEET TITLE:	IRRIGATION PLAN
--------------	------------------------

SHEET IDENTIFIER:	LI106
BINDING ORDER	29 OF 42



1 SEGMENT 13
1" = 20'-0"



2 SEGMENT 14
1" = 20'-0"

CRITICAL ANALYSIS

P.O.C. NUMBER: 03
Water Source Information: CONNECT TO EXISTING PIPE, COORDINATE WITH OWNER.

FLOW AVAILABLE
Point of Connection Size: 2"
Flow Available: 78.62 gpm

PRESSURE AVAILABLE
Static Pressure at POC: 80.00 psi
Pressure Available: 80.00 psi

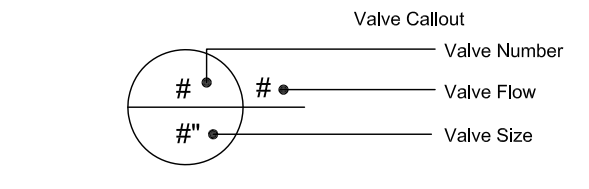
DESIGN ANALYSIS
Maximum Station Flow: 26.00 gpm
Flow Available at POC: 78.62 gpm
Residual Flow Available: 52.62 gpm

Critical Station: 25
Design Pressure: 40.00 psi
Friction Loss: 7.25 psi
Fittings Loss: 0.72 psi
Elevation Loss: 0.00 psi
Loss through Valve: 3.72 psi
Pressure Req. at Critical Station: 51.70 psi
Loss for Fittings: 0.68 psi
Loss for Main Line: 6.79 psi
Loss for POC to Valve Elevation: 0.00 psi
Loss for Backflow: 0.00 psi
Critical Station Pressure at POC: 59.17 psi
Pressure Available: 80.00 psi
Residual Pressure Available: 20.83 psi

VERIFY CONNECTION LOCATION, SIZE, AND EXISTING PRESSURE

IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	QTY	PRECIP	PSI	GPM
	SHRUB ROTATOR (HUNTER) 12' TO 30' RADIUS (3.7M-9.1M), TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.	44,016 S.F.	0.45 in/h	40	206
	TURF ROTATOR (HUNTER) 12' TO 30' RADIUS (3.7M-9.1M), 5' X 15' FOR PARK STRIP, TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.	13,042 S.F.	0.45 in/h	40	61
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI		
	ROOT WATERING SYSTEM SALT LAKE CITY STANDARD TREE ROOT WATERING SYSTEM, TWO RAIN BIRD RWS-M-B-1401 WITH RWS-SOCK, AND TWO RAIN BIRD 1401 BUBBLERS. SEE DETAIL.	214	40		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
	RAIN BIRD PEB 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	30			
	RAIN BIRD 44-RC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.	12			
	NIBCO T-113-K CLASS 125 BRONZE GATE SHUT OFF VALVE WITH CROSS HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4" - 3"	15			
	ZURN 975XL 1-1/2" REDUCED PRESSURE BACKFLOW DEVICE	2			
	RAIN BIRD ESP-LXD-LXMSS-LXMSSPED 50 STATION 2-WIRE, EXTERIOR STAINLESS STEEL PEDESTAL, FLOW SENSING.	1			
	NETAFIM HYDROMETER 1-1/2" MASTER VALVE/FLOW SENSOR WITH WATER METER AND HYDRAULIC VALVE IN A SINGLE UNIT. CAST IRON WITH BAKED POWDER-COATED FINISH, MINIMUM WORKING PRESSURE 14 PSI, MALE PIPE THREAD CONNECTION, ELECTRONIC DIGITAL REGISTER, HIGH FREQUENCY, PROVIDE COMPATIBLE RAIN BIRD DECODER.	2			
	WATER METER 1-1/2"	1			
	WATER METER 1-1/2"	1			
	POINT OF CONNECTION 2" CONNECT TO EXISTING PIPE. COORDINATE WITH OWNER.	1			
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40				
	IRRIGATION MAINLINE: PVC SCHEDULE 40				
	PIPE SLEEVE: PVC CLASS 200 SDR 21				



NOTE: IRRIGATION PIPING AND EQUIPMENT IS SHOWN IN PAVED AREAS FOR GRAPHIC CLARITY ONLY. LOCATE ALL PIPES AND EQUIPMENT IN LANDSCAPE AREAS WHERE POSSIBLE. ALL PIPES UNDER PAVEMENT SHALL BE SLEEVED. FINAL LOCATIONS OF ALL VALVES SHALL BE APPROVED BY LANDSCAPE ARCHITECT.

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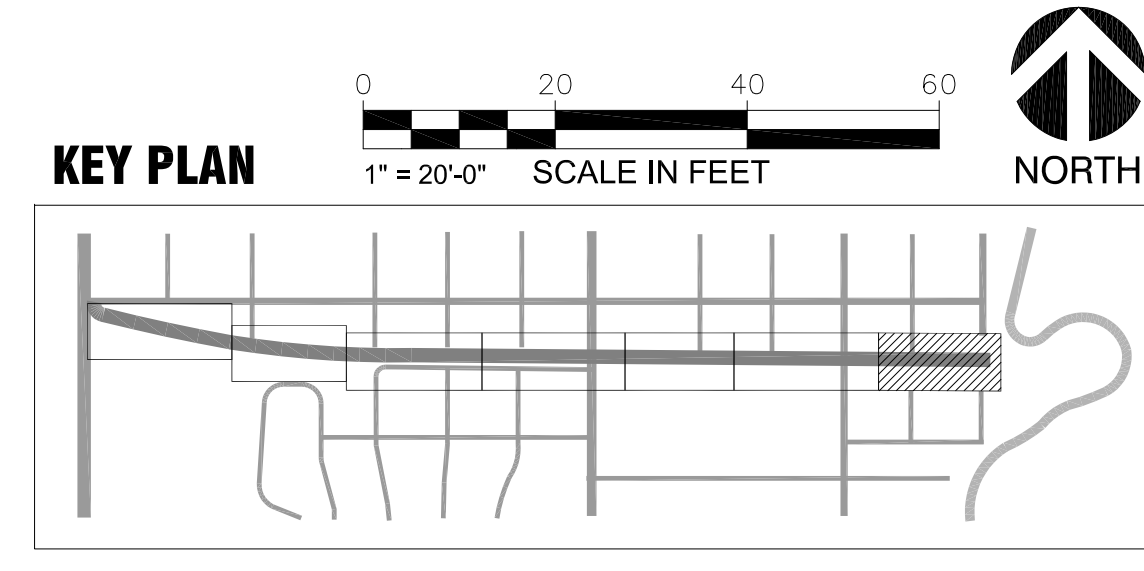
PREPARER #: 112031
CONTRACT #: 300124
PROJECT #: 106068
FILE #:
DRAWING FILE:
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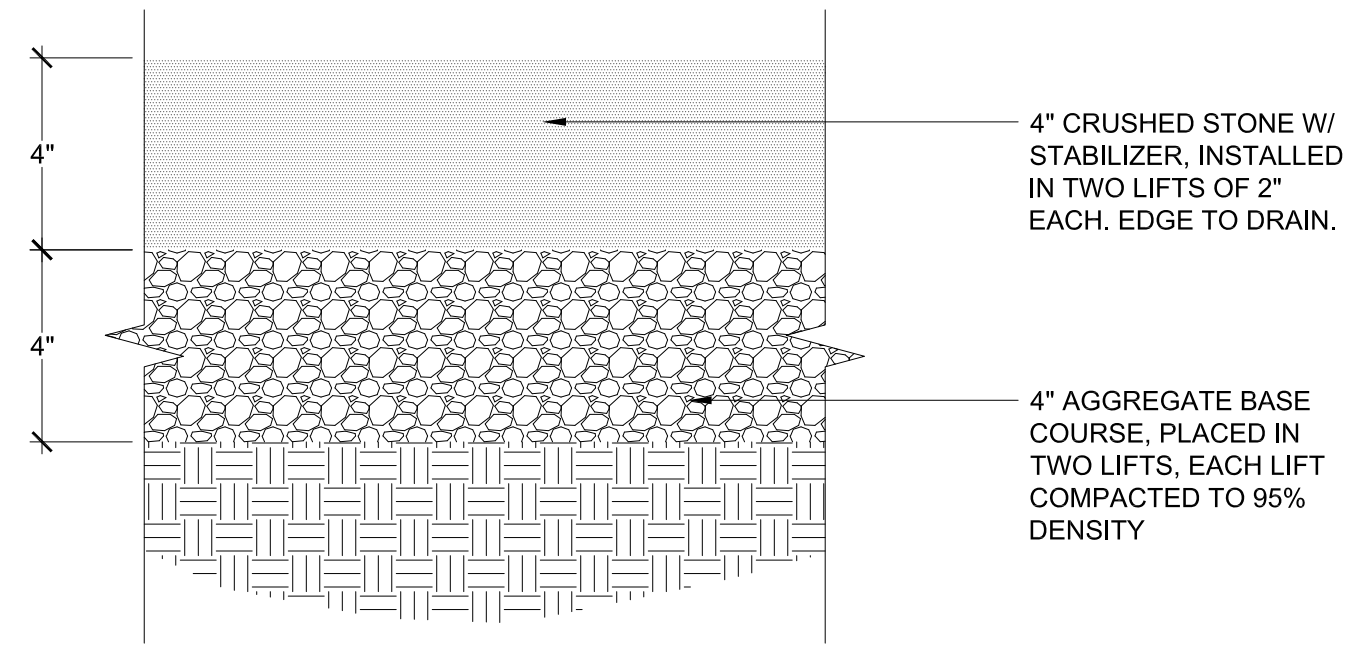
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IRRIGATION PLAN

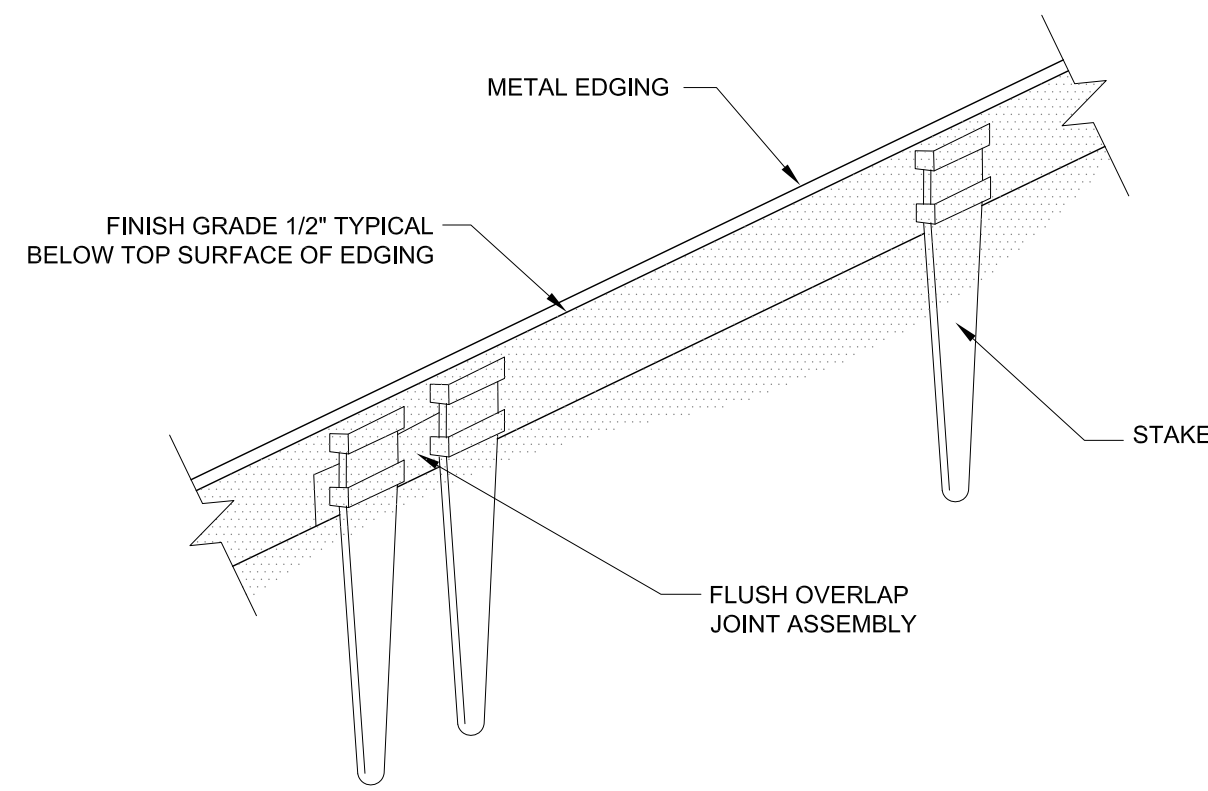
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LI107
BINDING ORDER 30 OF 42

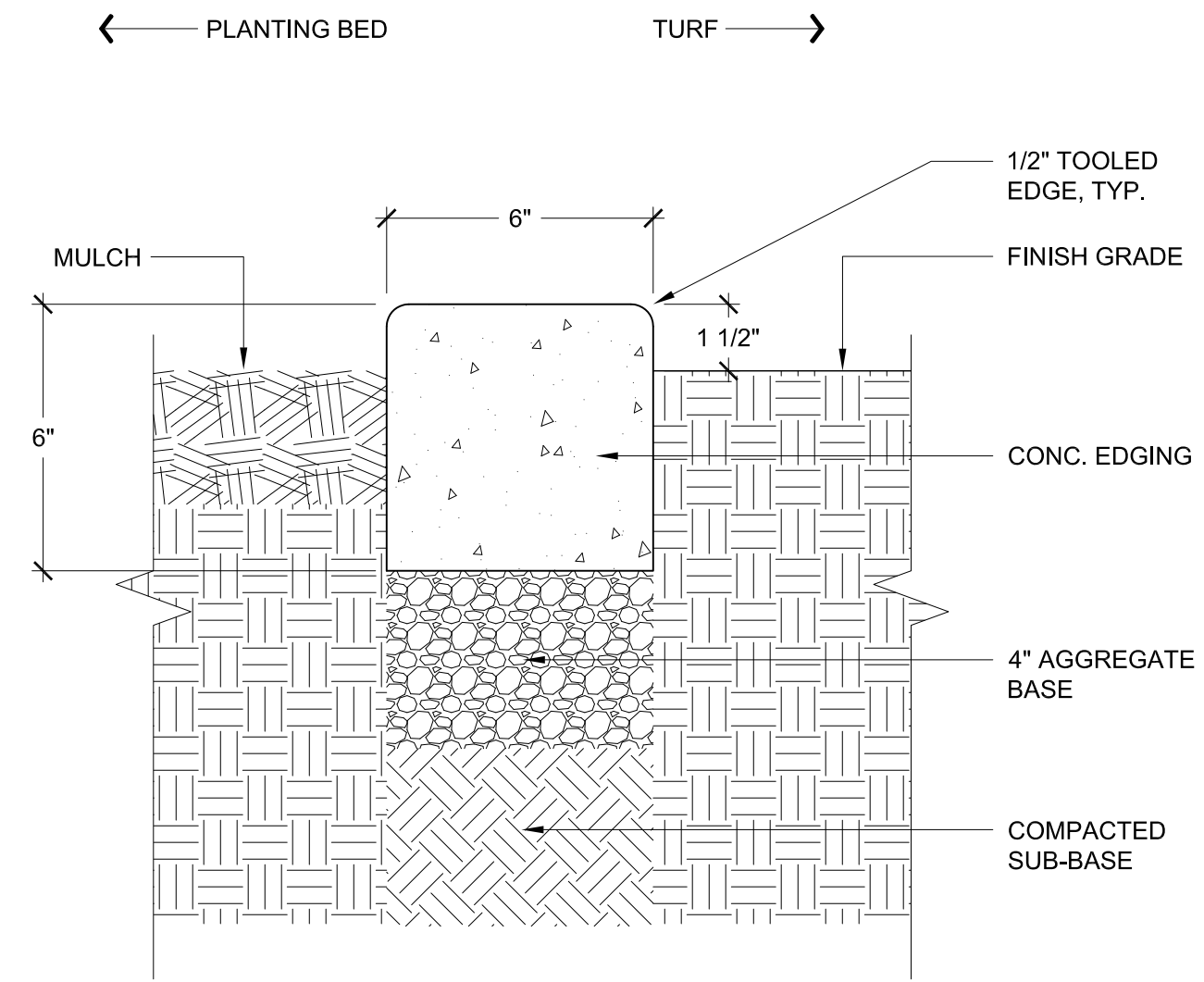




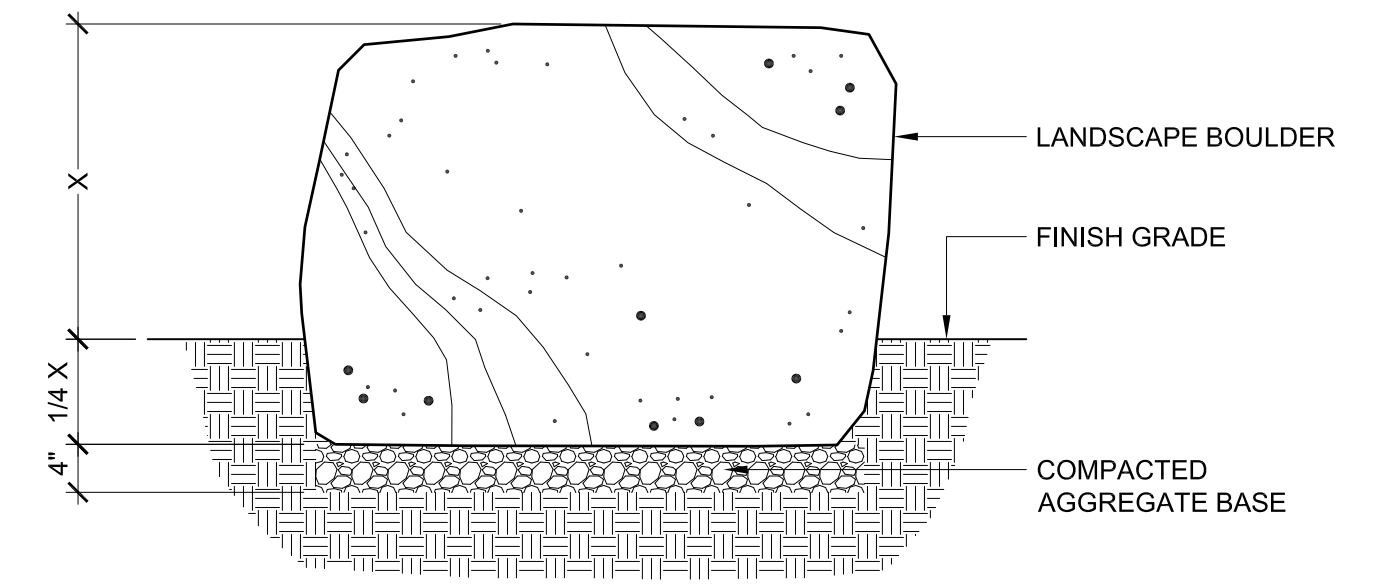
1 CRUSHED STONE PAVING
3" = 1'-0" IBI-PAV-CS-01



2 ALUMINUM EDGING
1 1/2" = 1'-0" P-9L-SITE-18

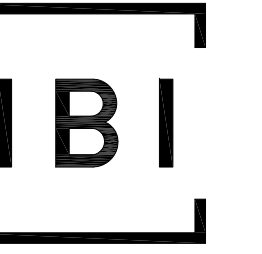


3 6" CONCRETE EDGING
3" = 1'-0" IBI-EDG-02



4 BOULDER SETTING
3/4" = 1'-0" IBI-SF-BLDR-01

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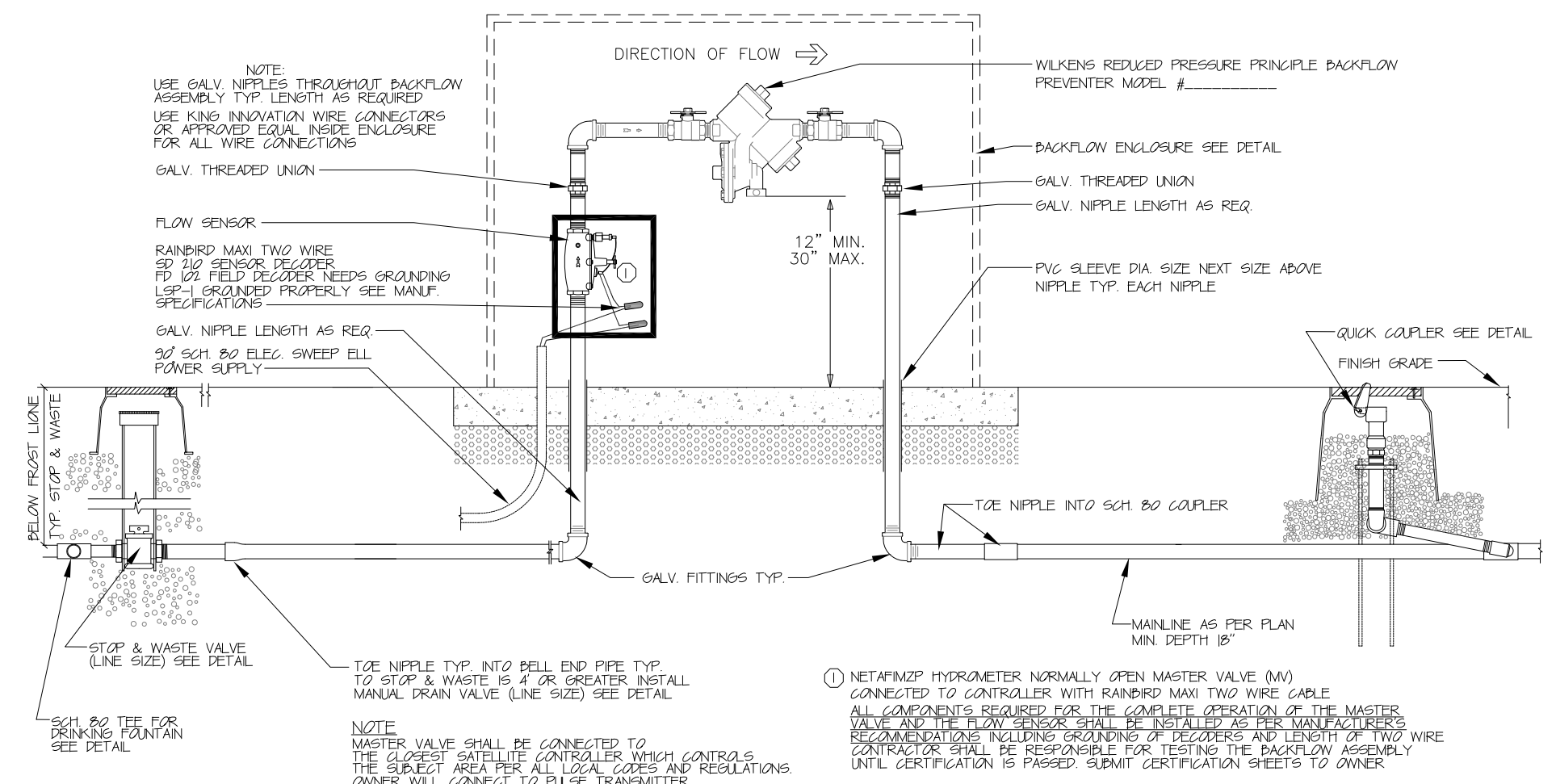
SHEET TITLE:

SITE DETAILS

SHEET IDENTIFIER:

LD101

BINDING ORDER 31 OF 42

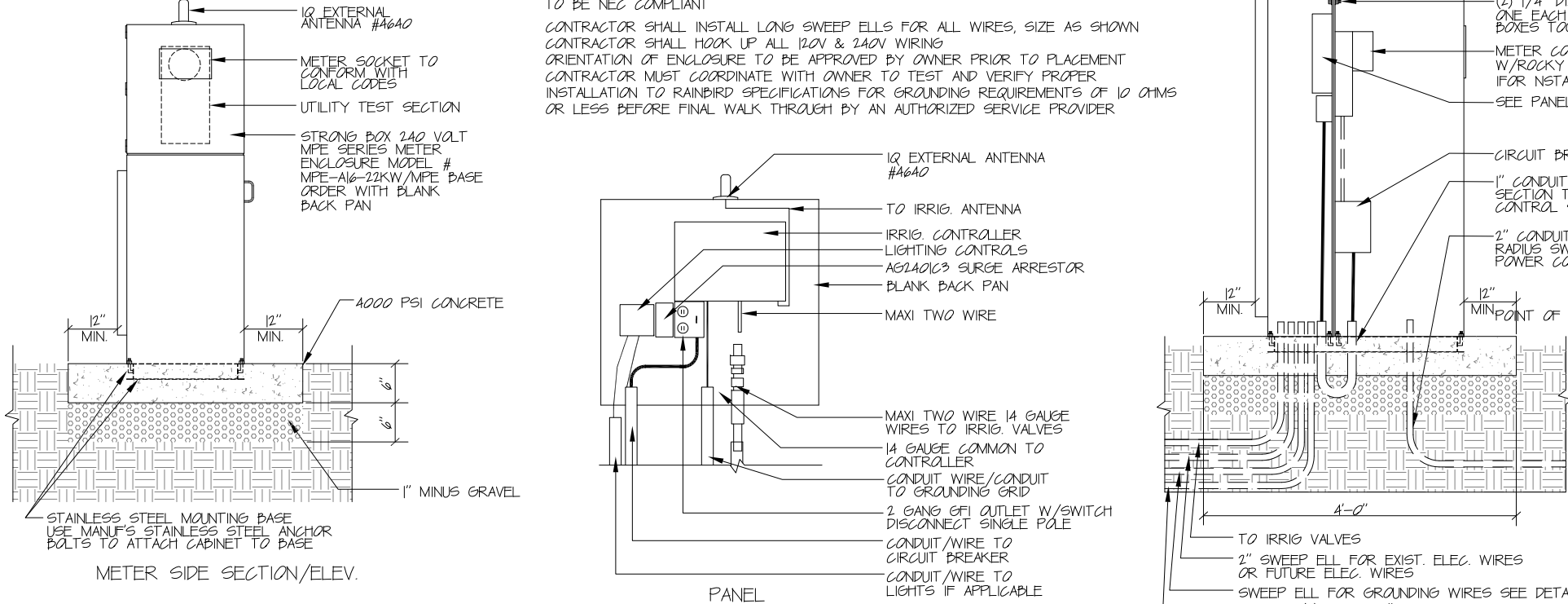


1 BACKFLOW PREVENTER
NTS

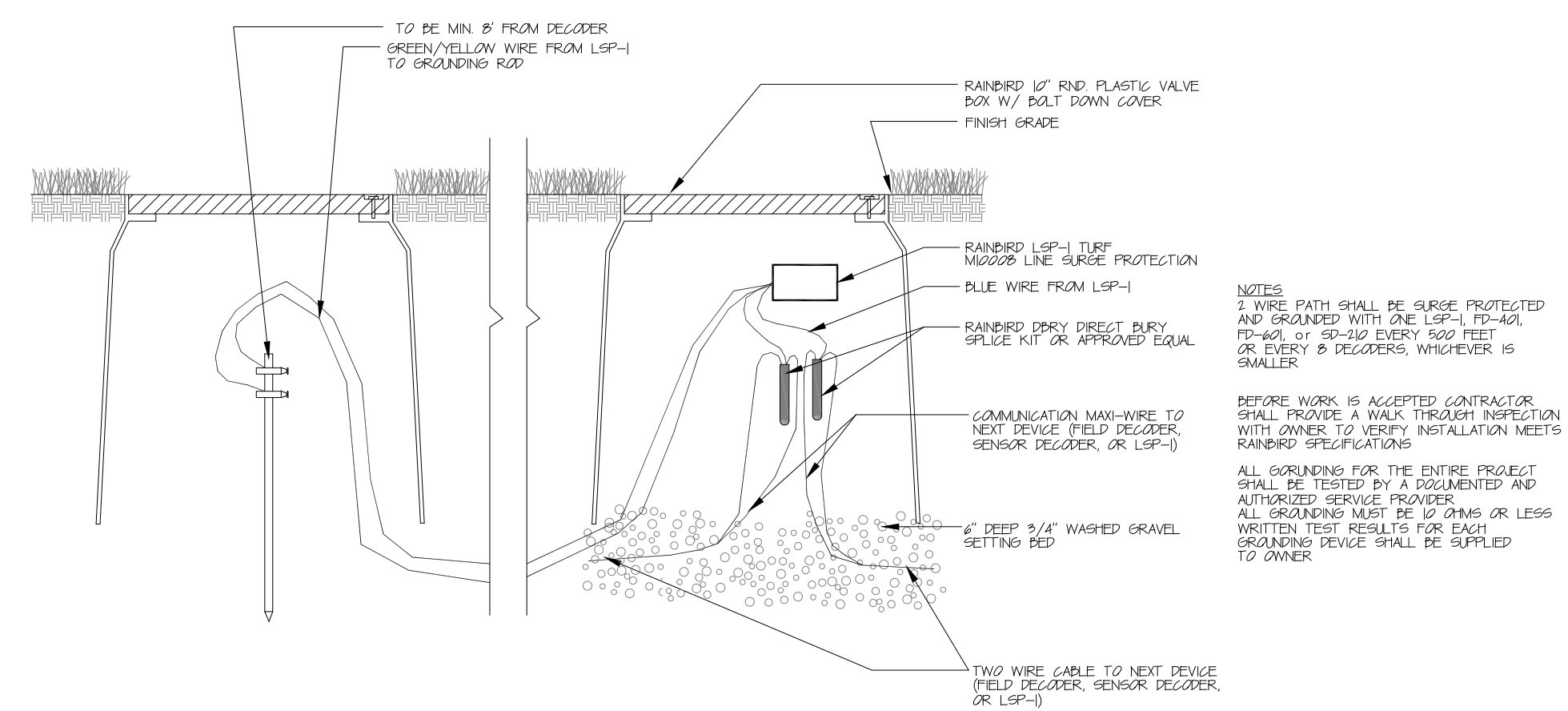
IRRIG SUPPLY AND INSTALLATION NOTES
CONTRACTOR SHALL SUPPLY THE FOLLOWING ITEMS WHICH WILL BE INSTALLED BY THE OWNER. ALL OTHER ITEMS FOR THE COMPLETE AND OPERATIONAL IRRIGATION SYSTEM SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
1. RAINBIRD IQ ANTENNA PART NO. 4440 EXTERNAL ANTENNA
2. RAINBIRD IQ CELL CARTRIDGE PART NO. 124419 WITHOUT SERVICE (NO SIM CARD)
3. 57242 PULSE TRANSMITTER AS REQUIRED IF T FLOW SENSOR IS USED
4. RAINBIRD IQ CONTROLLER ESPLUD
5. AGARDUS SURGE ARRESTOR
6. I/O EXPANSION STATION MODULES AS NEEDED FOR CONTROLLER
7. BLANK BACK PAN FROM ENCLOSURE
8. 2 POSITION PUSH DIMS (FOR GROUNDING)

PANEL "A" VOLTAGE 120 / 240 VOLTS, 1 PHASE, 3 WIRE, BLANK BACK PANEL. SURFACE MOUNT, BOLT ON BREAKER, MAIN 100A MLO AIG, 10000 SERIES RATED 22K.

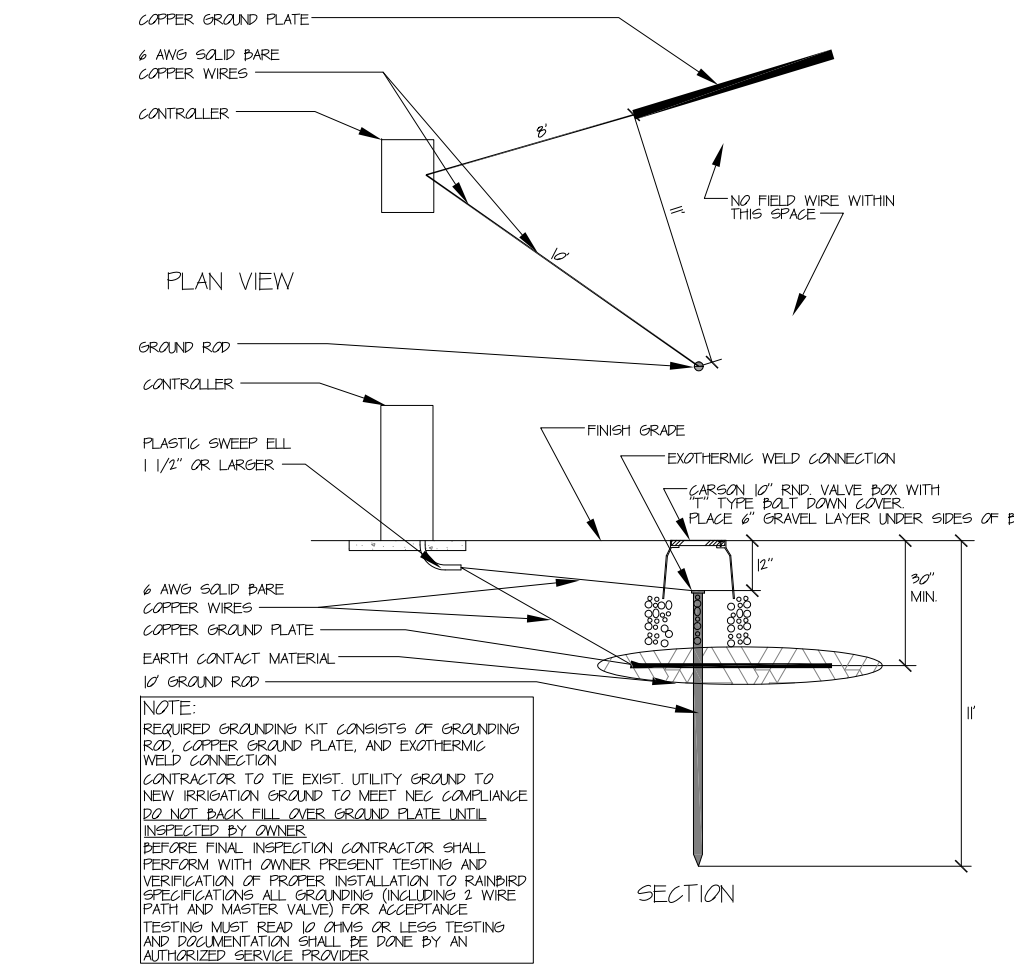
PANEL NOTES
FURNISH AND INSTALL (1) 3 PLE, 10 AMP, ELECTRICALLY HELD CONTACTOR.
GENERAL NOTES
NEW STRONG BOX PANEL ENCLOSURE MODEL # 50-15555 W/MP BASE 240 VOLT AND NEW PANEL ON ONE SIDE WITH NEW IRRIGATION CONTROLLER, SET OUTLET, SURGE ARRESTER, AND I/O EXTERNAL ANTENNA TO BE MOUNTED ON TOP OF ENCLOSURE. CONTRACTOR TO COORDINATE INSTALLATION OF ELEG. METER W/ROCKY MT. POWER. CONTRACTOR SHALL INSTALL LIGHTING CONTROL, AND WIRES TO NEW ENCLOSURE IF APPLICABLE. CONTRACTOR SHALL SUPPLY AND INSTALL GROUNDING GRID FOR IRRIGATION CONTROLLER AS PER DETAIL AND MANUFACTURER'S SPECIFICATIONS. CONTRACTOR SHALL TEST THE GROUNDING FROM UTILITY TO GROUNDING FROM IRRIGATION UTILITY TO BE REG. COMPLIANT. CONTRACTOR SHALL INSTALL LONG SWEEP ELLS FOR ALL WIRES, SIZE AS SHOWN. CONTRACTOR SHALL PICK UP ALL BOX & CABLE WIRING. ORIENTATION OF ENCLOSURE TO BE APPROVED BY OWNER PRIOR TO PLACEMENT. CONTRACTOR MUST COORDINATE WITH OWNER TO TEST AND VERIFY PROPER INSTALLATION TO RAINBIRD SPECIFICATIONS FOR GROUNDING REQUIREMENTS OF 10 OHMS OR LESS BEFORE FINAL WALK THROUGH BY AN AUTHORIZED SERVICE PROVIDER.



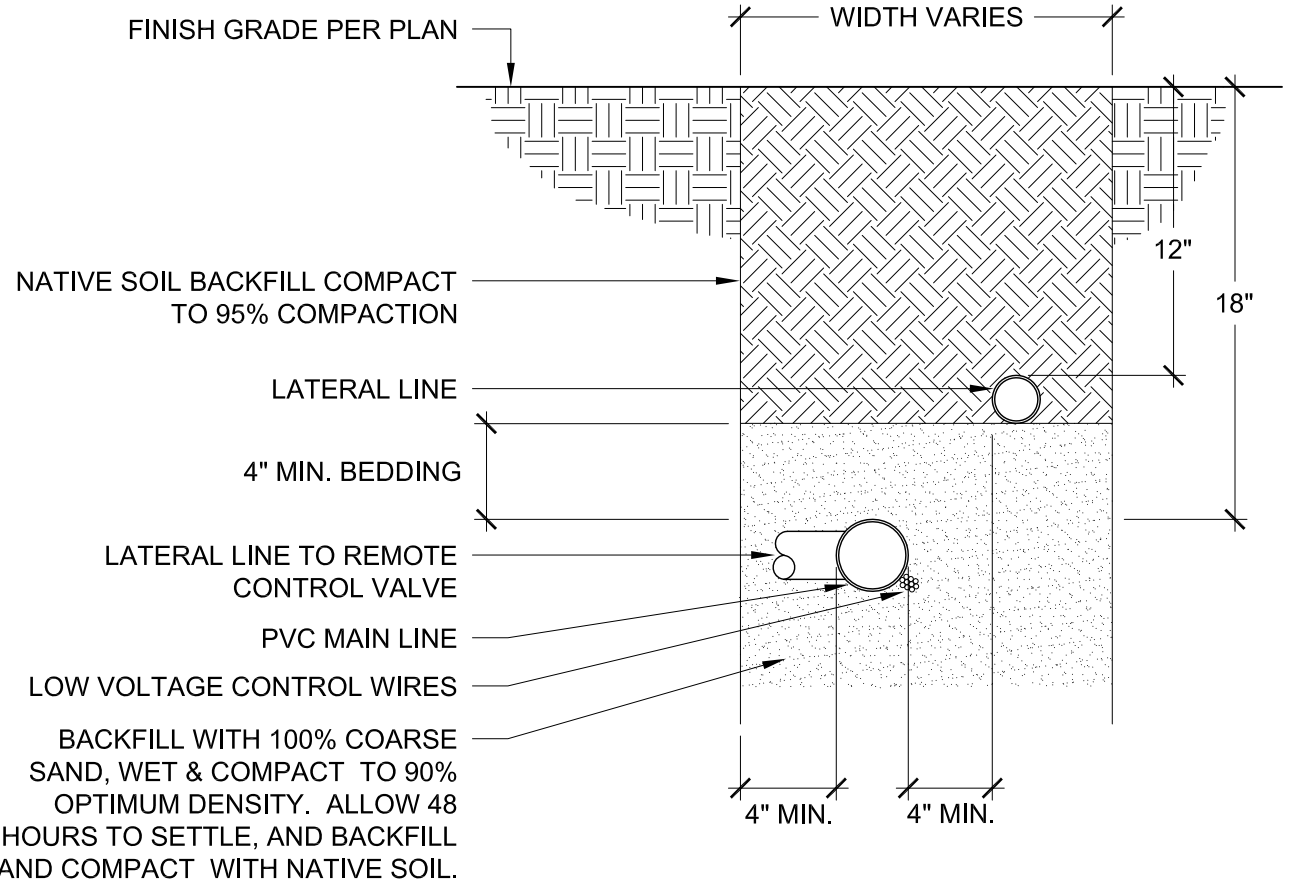
2 CONTROLLER
NTS



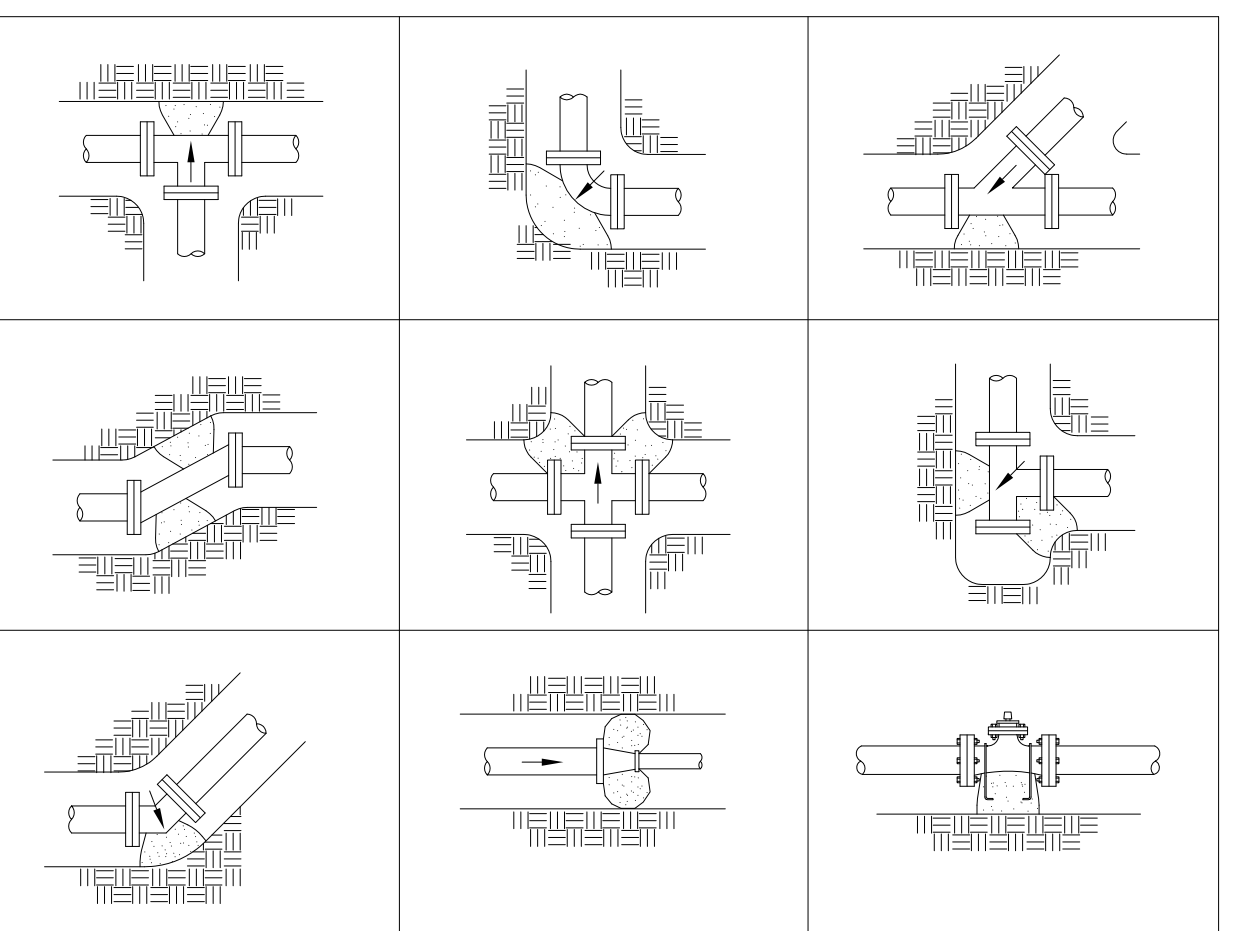
3 SURGE PROTECTION
NTS



4 CONTROLLER GROUNDING
NTS

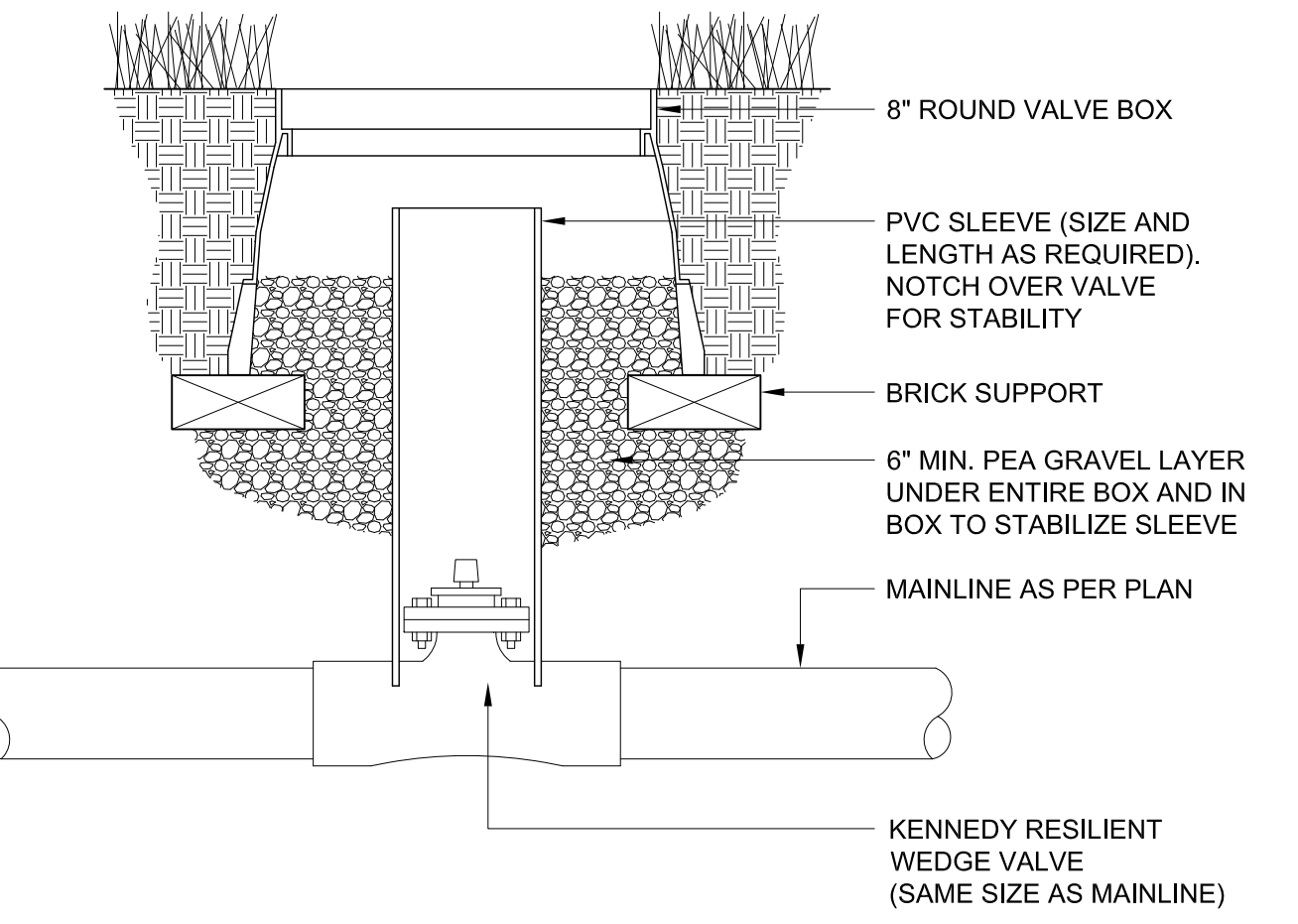


5 TRENCH SECTION
1 1/2" = 1'-0"

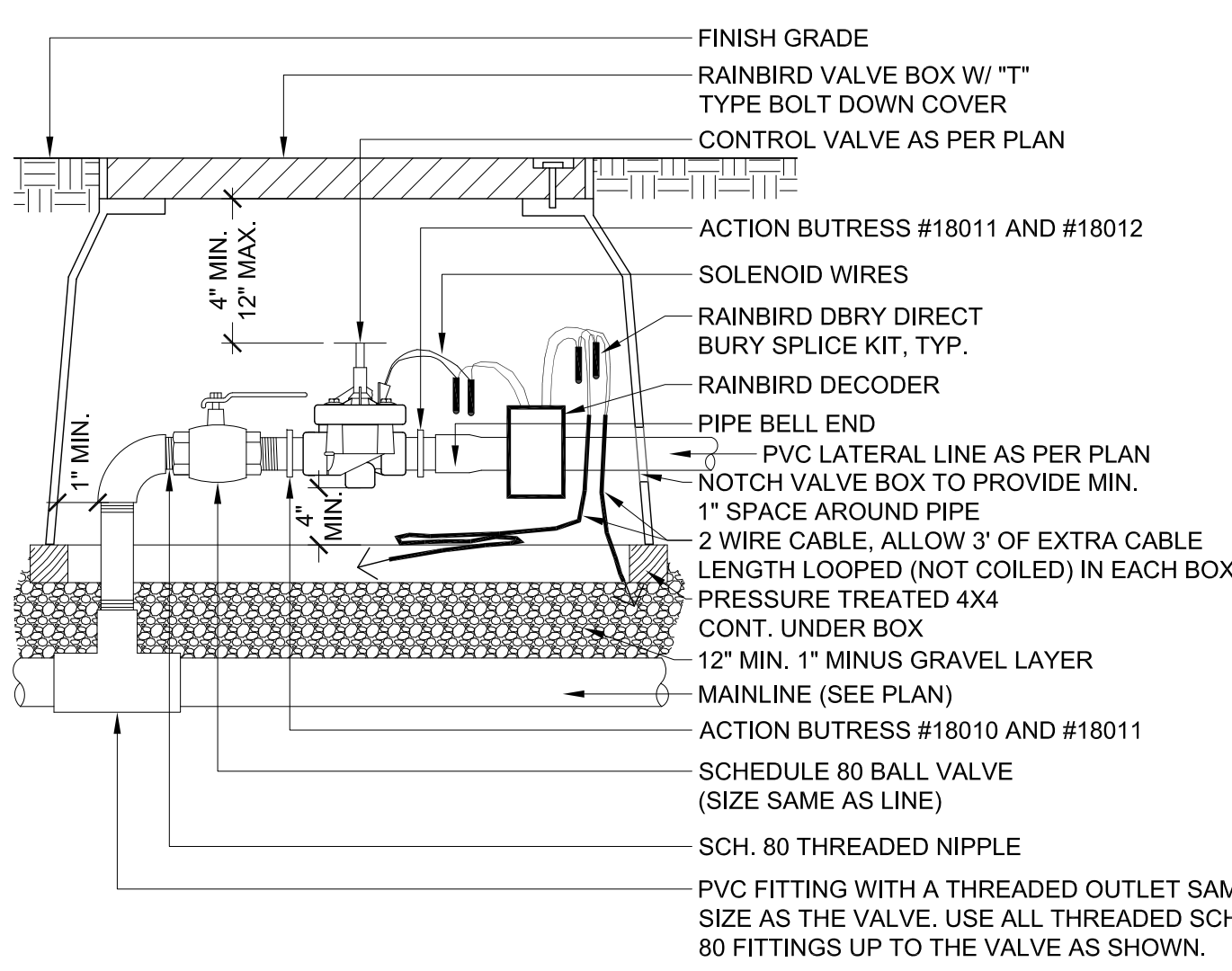


1 CU. FT. OF CONC. PER INCH OF MAINLINE SIZE REQUIRED AT ALL CHANGE OF DIRECTION AND SIZE AS INDICATED ABOVE.

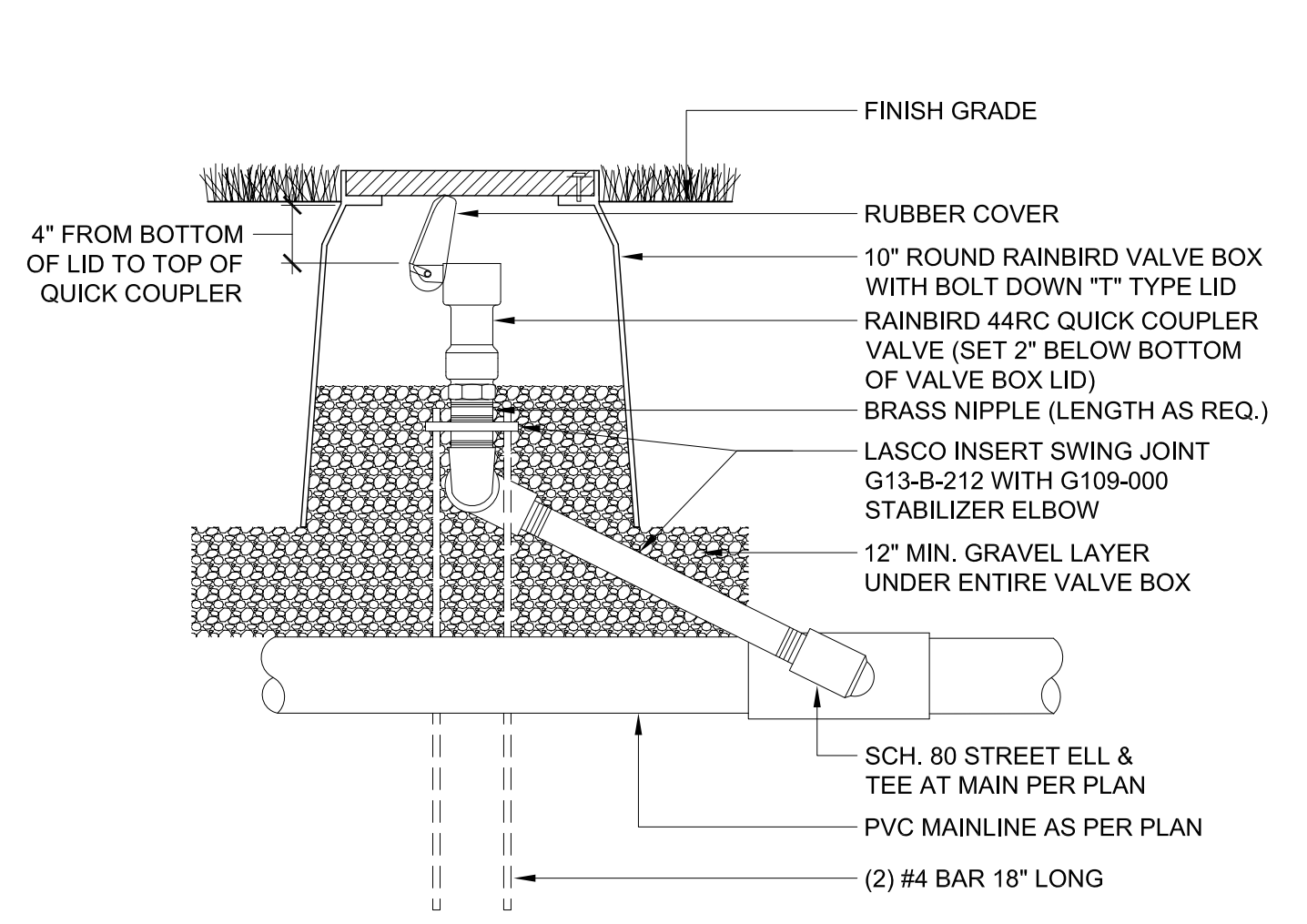
6 THRUST BLOCKING
NTS



7 GATE VALVE
3" = 1'-0"



8 2 WIRE REMOTE CONTROL VALVE
1 1/2" = 1'-0"



9 QUICK COUPLER
1" = 1'-0"

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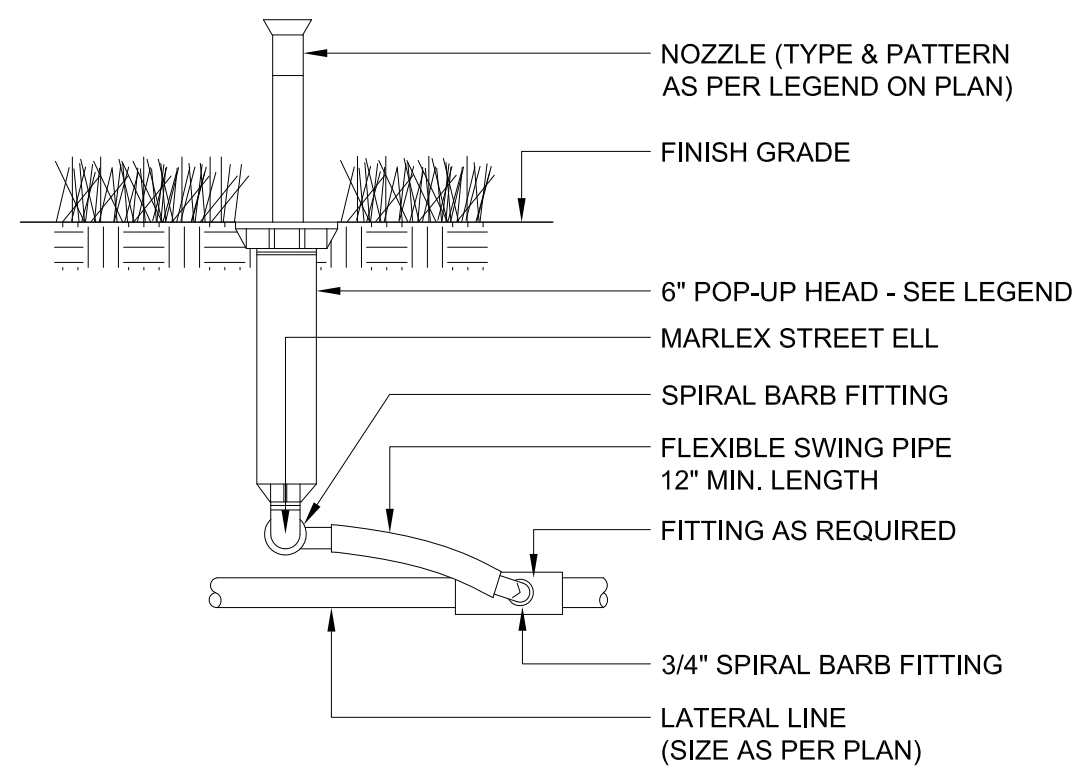
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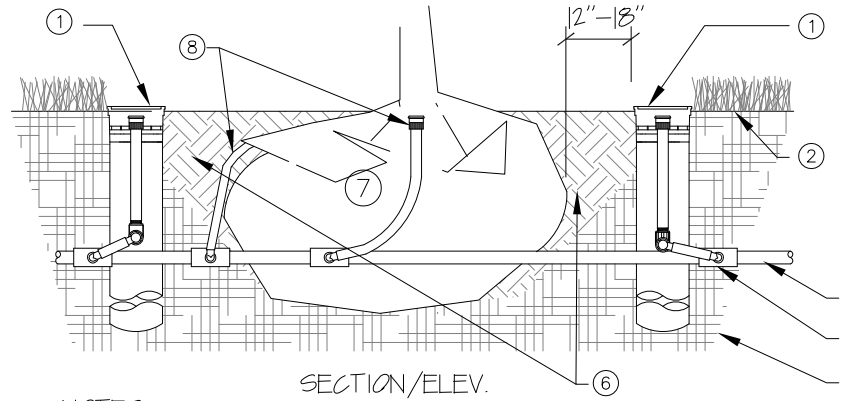
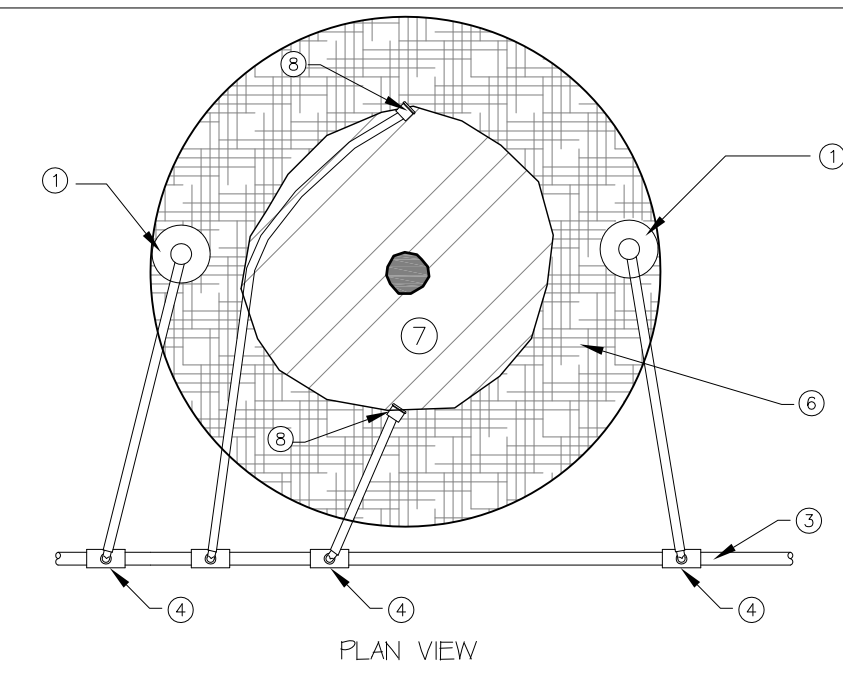
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SHEET TITLE:
IRRIGATION DETAILS

SHEET IDENTIFIER:
LD102
BINDING ORDER 32 OF 42



NOTE: READJUST HEAD TO PROPER GRADE ONCE TURF IS ESTABLISHED



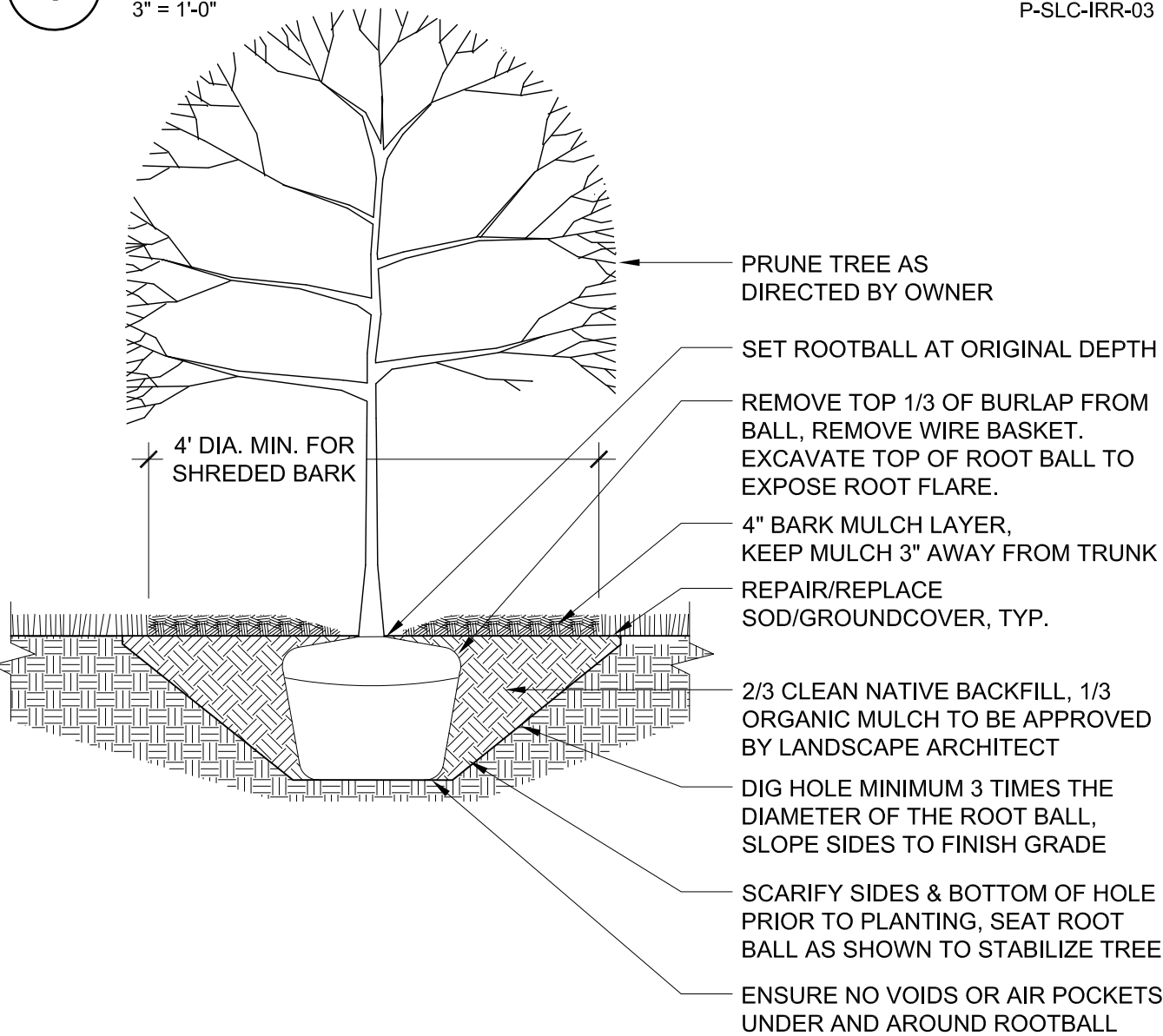
- ① ROOT WATER SYSTEM (RWS) SEE IRRIG PLAN FOR MODEL NO
- ② FINISH GRADE
- ③ LATERAL LINE
- ④ PVC SCH 80 ELL OR TEE
- ⑤ EXISTING SOIL
- ⑥ BACKFILL MIX SEE DETAIL
- ⑦ TREE ROOT BALL
- ⑧ RAINBIRD 1401 BUBBLER ON SALCO PIPE TWO PER TREE ADJACENT TO ROOT BALL PERPENDICULAR TO RWS

NOTES:

1. TWO RWS PER TREE TYP EQUALLY SPACED
2. INSTALL RAINBIRD 1401 BUBBLER ON SALCO PIPE PLACE ADJACENT TO TRUNK (2) PER TREE
3. PLACE RWS ON HIGHEST SIDES OF TREE ROOT BALL FIT IF ON SLOPE

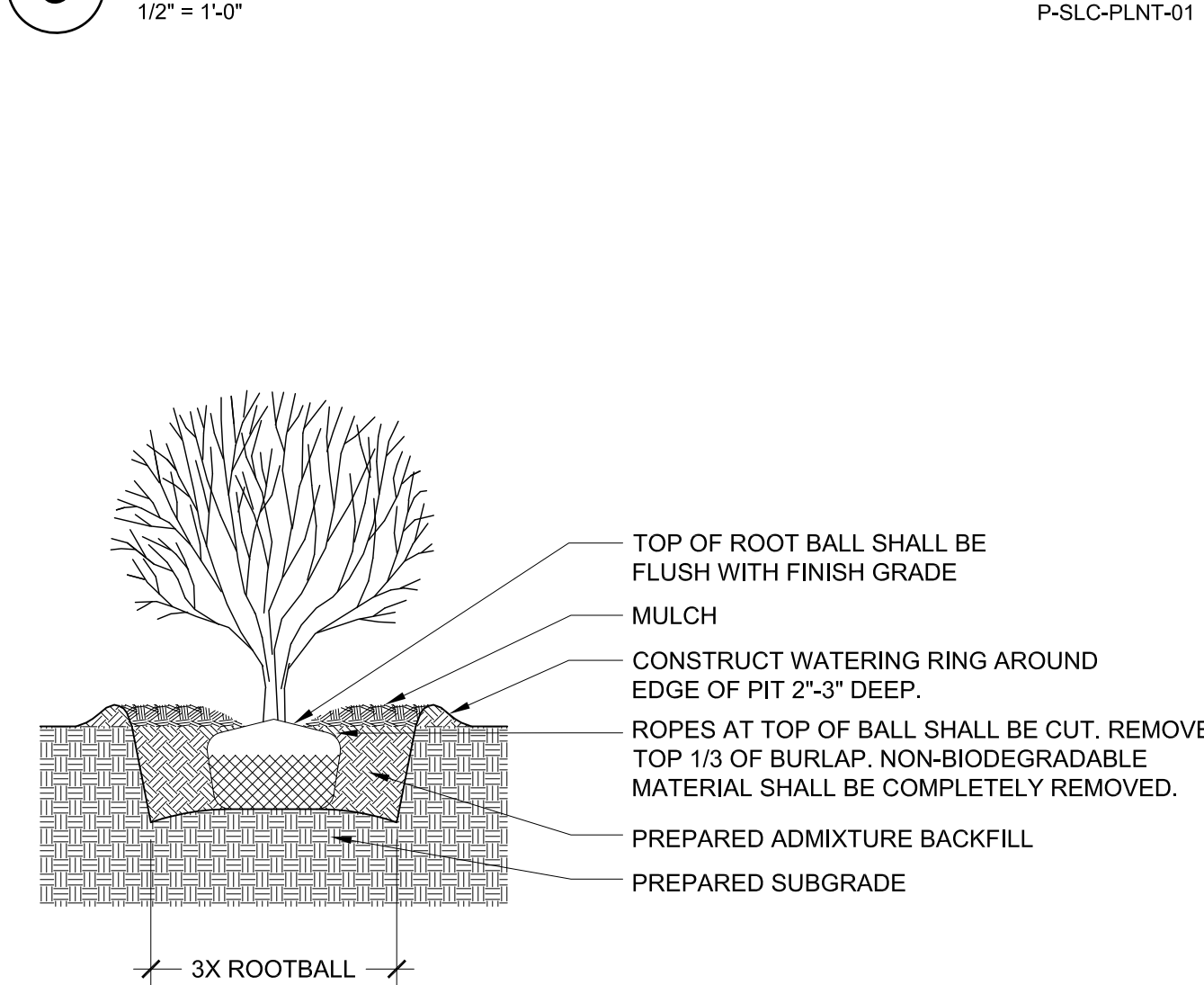
1 POP-UP SPRAY

3" = 1'-0" P-SLC-IRR-03



3 TREE PLANTING

1/2" = 1'-0" P-SLC-PLNT-01



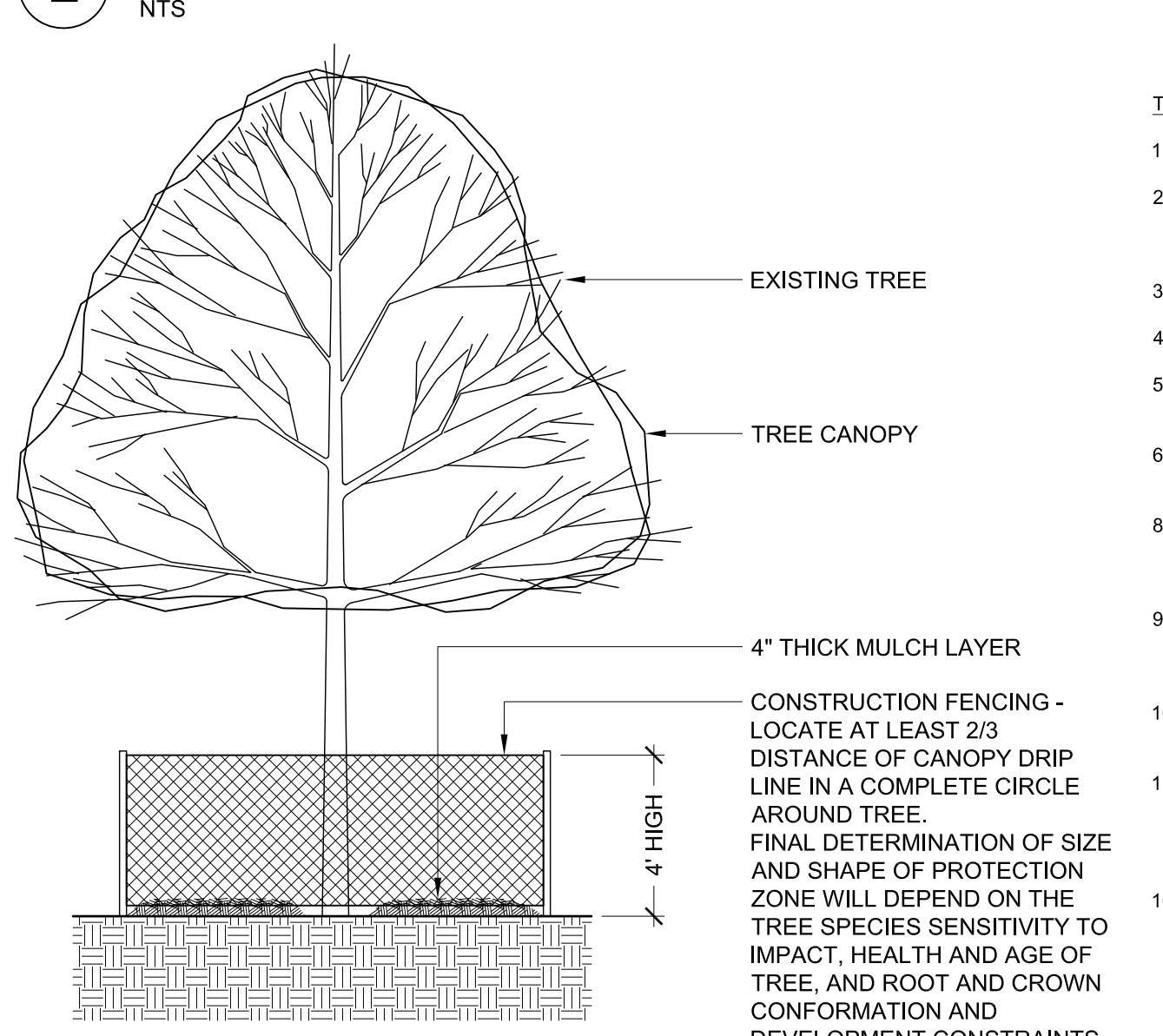
5 SHRUB PLANTING

1/2" = 1'-0" IBI-PLNT-SHRUB-01



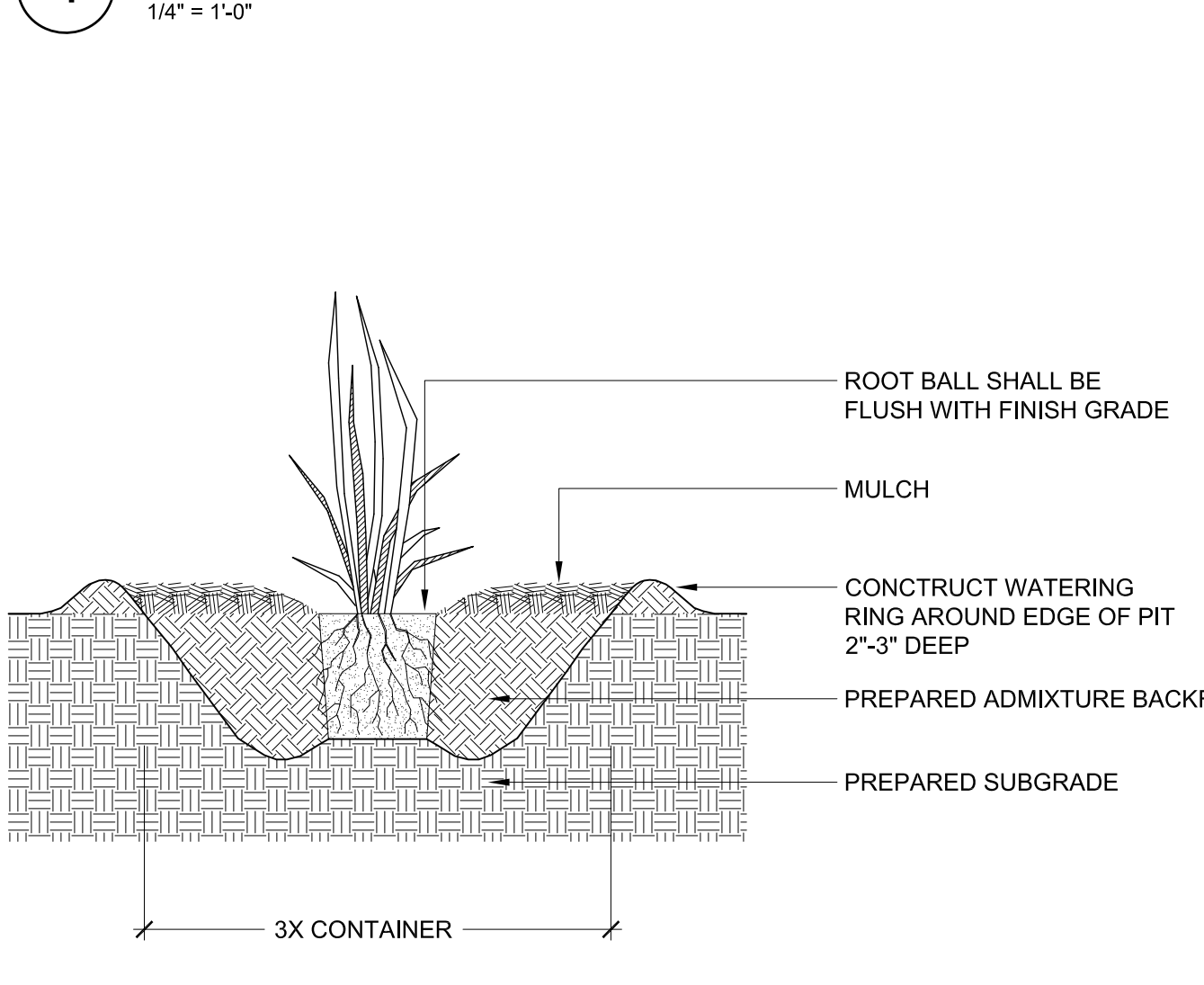
2 TREE ROOT WATERING SYSTEM

NTS



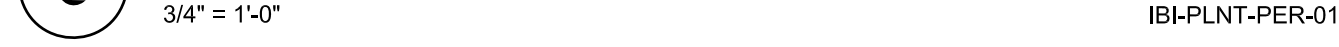
4 TREE PROTECTION

1/4" = 1'-0" P-9L-PLNT-02



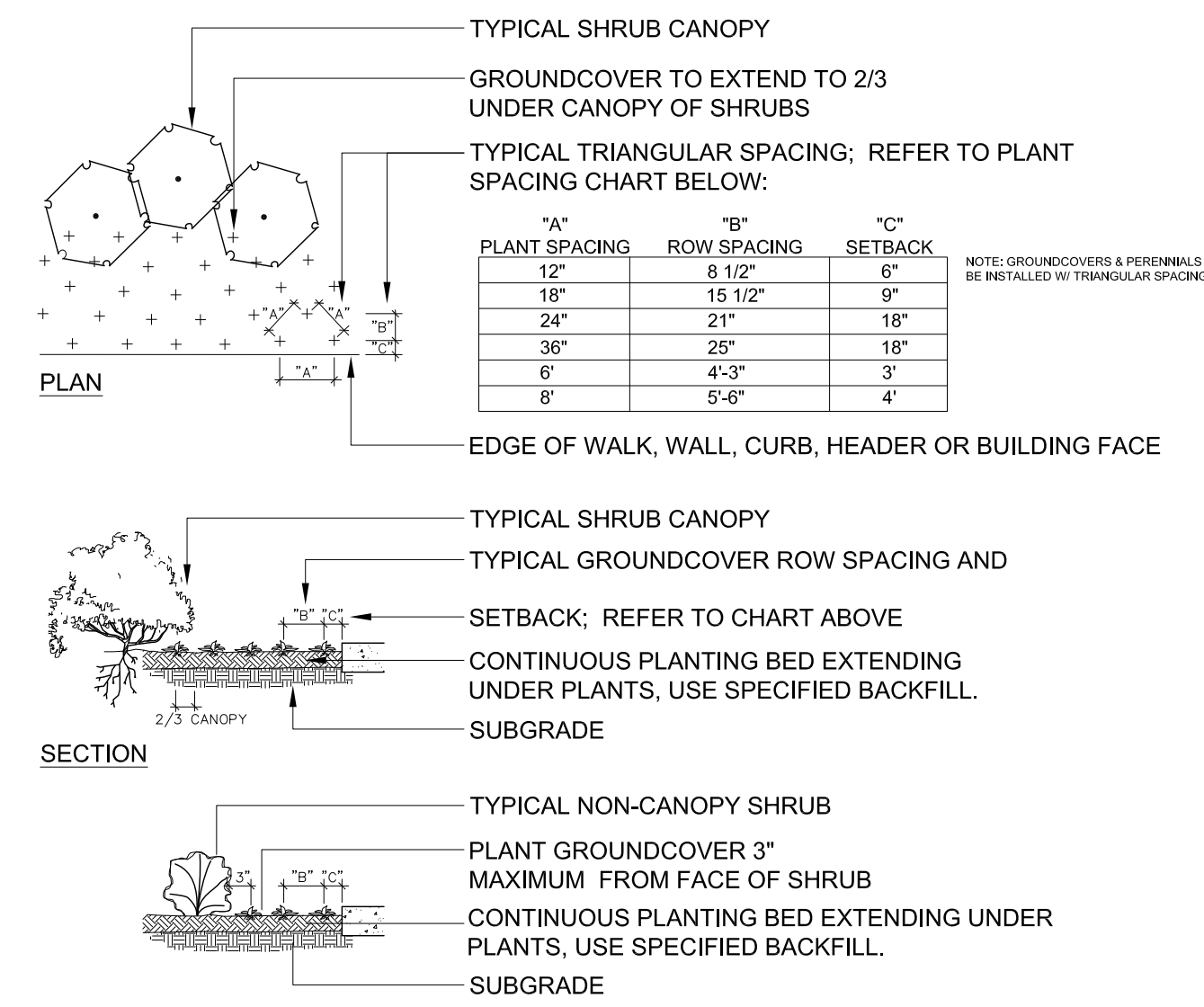
6 PERENNIAL PLANTING

3/4" = 1'-0" IBI-PLNT-PER-01



TREE PRESERVATION NOTES:

1. FOLLOW ALL SALT LAKE CITY GUIDELINES FOR TREE PROTECTION AND PRESERVATION.
2. TREES WITHIN WORK LIMIT AREA SHALL BE FENCED AS PER PLAN AND IN COORDINATION WITH BLUESTAKES. OWNER, LANDSCAPE ARCHITECT, AND/OR CITY FORESTER. FENCING MAY OCCUR AT THE COMBINED DRIP LINES OF TREES TO BE PRESERVED. TREES WITH TRUNKS WITHIN 50 FT. OF DISTURBANCE SHALL BE PROTECTED. FENCING SHALL BE CONTINUOUS CHAIN LINK PROTECTIVE FENCE OR CITY FORESTER APPROVED EQUAL.
3. TREE PRESERVATION MEASURES MUST BE IN PLACE BEFORE DEMOLITION, CONSTRUCTION, AND/OR GRADING ACTIVITIES COMMENCE.
4. NO GRADING SHALL OCCUR WITHIN THE DRIP LINES/FENCED AREA OF EXISTING TREES.
5. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL. NO CONSTRUCTION MATERIALS OR CONSTRUCTION VEHICLES MAY BE STORED WITHIN THE DRIP LINES/FENCING AREAS OF EXISTING TREES. EXCAVATIONS SHALL BE MADE BY HAND.
6. CONSTRUCTION VEHICLES OR MACHINERY MAY NOT PASS BETWEEN TWO OR MORE EXISTING TREES IDENTIFIED FOR PRESERVATION IF THEIR CANOPIES ARE WITHIN 10 FEET OF TOUCHING.
8. ALL CITY TREES ARE TO REMAIN PROTECTED. IF TREES ARE DAMAGED DUE TO CONSTRUCTION, OR REMOVED WITHOUT PROPER AUTHORIZATION, CONTRACTOR WILL BE ASSESSED THE APPRAISED VALUE OF THE TREES PAYABLE TO SALT LAKE CITY. IF DAMAGE OCCURS TO A PROTECTED TREE, CONTACT THE CITY FORESTER IMMEDIATELY.
9. FOLLOW GUIDELINES FOUND IN "TRENCHING AND TUNNELING NEAR TREES" BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA). NO PRUNING SHALL BE PERFORMED EXCEPT BY AN ISA CERTIFIED ARBORIST. PRIOR TO BEGINNING WORK ON TREES THE TREE CARE CONTRACTOR SHALL CONTACT THE CITY FORESTER TO RECEIVE AN AUTHORIZATION PERMIT AS REQUIRED (801-972-7818).
10. TUNNELING OR BORING SHOULD BE DONE WHENEVER WORK IS REQUIRED WITHIN THE PROTECTED/FENCED AREA, IN A MANNER AND LOCATION LEAST DAMAGING TO TREE ROOTS.
11. WHEN ENCOUNTERING ROOTS OVER 3" IN DIAMETER, THE SLC URBAN FORESTRY OFFICE WILL BE CONSULTED PRIOR TO CUTTING TO DISCUSS COURSE OF ACTION. ANY CUTTING OF TREE ROOTS SHALL GIVE DUE CONSIDERATION TO FUTURE WELFARE OF THE TREE, AND SHALL BE SMOOTH AND CLEAN. BACKFILL BEFORE THE ROOTS DRY OUT AND WATER TREE IMMEDIATELY. IF TREE ROOTS ARE TO REMAIN EXPOSED FOR ANY EXTENDED PERIOD OF TIME, THEY MUST BE COVERED WITH BURLAP AND KEPT MOIST AT ALL TIMES.
10. THE CONTRACTOR IS REQUIRED TO WATER, FERTILIZE AND ATTEND TO OTHER MAINTENANCE NEEDS OF EXISTING TREES AS NEEDED TO MAINTAIN HEALTHY GROWTH THROUGHOUT THE CONSTRUCTION PERIOD. SIX FEET DIAMETER, MINIMUM, BY SIX-INCH TALL EARTH BERMS SHALL BE CONSTRUCTED AT THE BASE OF EACH TREE TO FUNCTION AS TEMPORARY WATERING BASINS DURING THE CONSTRUCTION PERIOD. TREES SHALL BE WATERED ACCORDING TO THE FOLLOWING GUIDELINES:
 - a. ESTABLISHED TREES - DEEP WATERING ONCE EVERY TWO WEEKS W/ LOW PRESSURE AT DRIP LINE, SOAK TO DEPTH OF AT LEAST 8 INCHES; GENERALLY APPLY 5 GALLONS PER INCH OF TRUNK DIAMETER AT BREAST HEIGHT.
 - b. YOUNG OR NEWLY PLANTED TREES - WATER EVERY 3-4 DAYS, DEPENDING ON TEMPERATURE.

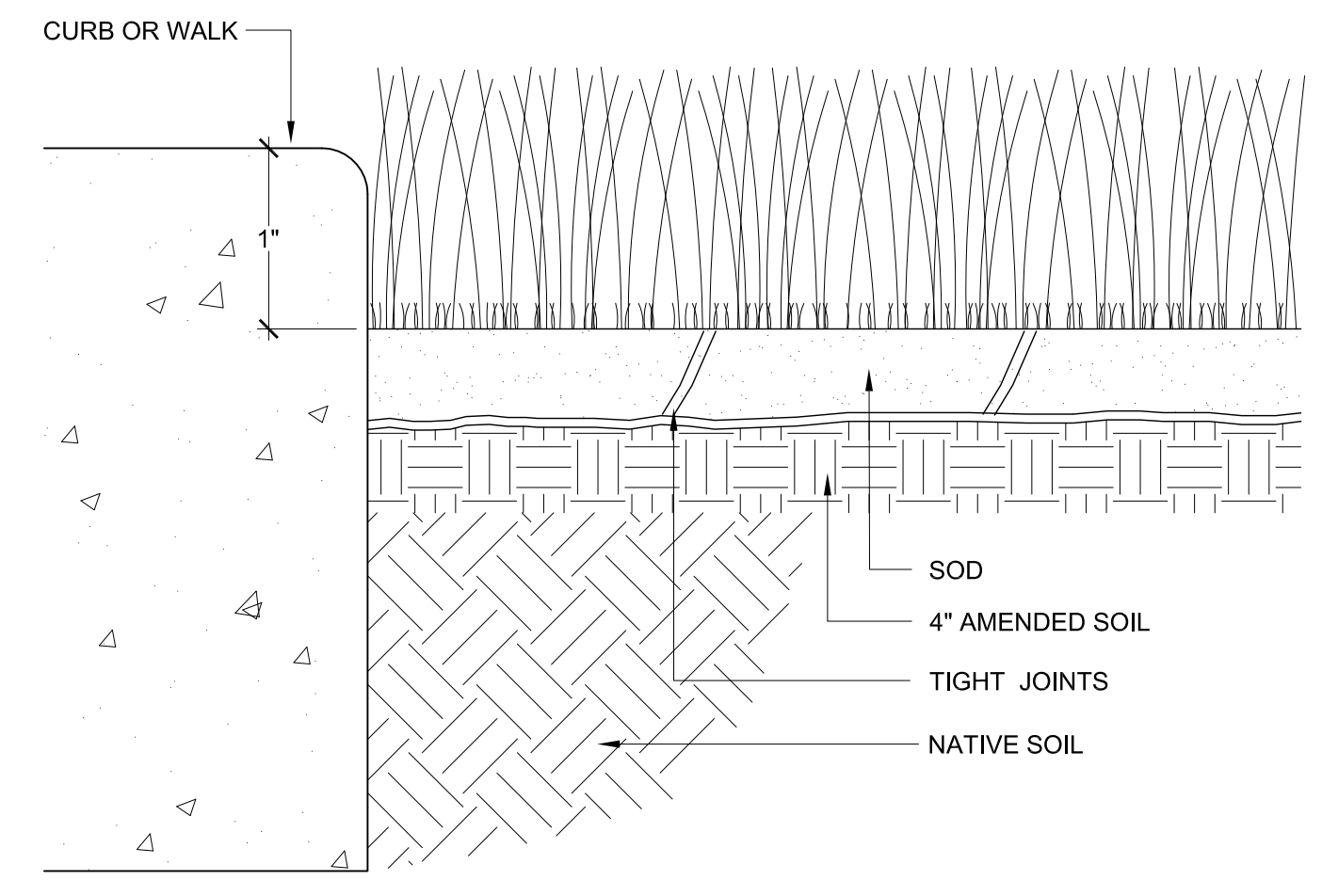


PLANT SPACING	ROW SPACING	SETBACK
12"	8 1/2"	6"
18"	15 1/2"	9"
24"	21"	18"
36"	25"	18"
6'	4'-3"	3'
8'	5'-6"	4'

NOTE: GROUNDCOVERS & PERENNIALS TO BE INSTALLED IN TRIANGULAR SPACING.

7 GROUND COVER PLANT SPACING

1/4" = 1'-0" IBI-PLNT-GC-01



8 DETAIL-TITLE

1" = 1" IBI-PLNT-SOD-01



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 PROJECT #: 106068
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SHEET TITLE:
IRRIGATION & PLANTING DETAILS

SHEET IDENTIFIER:
LD103
 BINDING ORDER 33 OF 42

GEAR AND CONTROL SYMBOLS			
SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	MANUAL STARTER WITH THERMAL OVERLOAD(S)	AT EQUIPMENT	
	ELECTRIC MOTOR		
	NON-FUSED DISCONNECT SWITCH	TOP AT +48"-72"	
	FUSED DISCONNECT SWITCH	TOP AT +48"-72"	
	CIRCUIT BREAKER AND ENCLOSURE	TOP AT +48"-72"	
	MAGNETIC STARTER	TOP AT +48"-72"	
	COMBINATION MAGNETIC STARTER / NON-FUSED DISCONNECT	TOP AT +48"-72"	
	COMBINATION MAGNETIC STARTER / FUSED DISCONNECT	TOP AT +48"-72"	
	COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)	TOP AT +48"-72"	
	COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)	FLOOR OR WALL AS SPECIFIED	TOP AT +72" IF WALL MOUNTED
	REDUCED VOLTAGE STARTER	FLOOR OR WALL AS SPECIFIED	TOP AT +72" IF WALL MOUNTED
	LOAD CENTER (SURFACE-MOUNTED)	TOP AT +72"	14"W X 3'D
	LOAD CENTER (FLUSH-MOUNTED)	TOP AT +72"	20"W X 6'D
	LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED)	TOP AT +72"	20"W X 6'D
	LIGHTING AND APPLIANCE PANELBOARD (FLUSH-MOUNTED)	TOP AT +72"	20"W X 6'D
	POWER DISTRIBUTION PANELBOARD	WALL	THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION. CROSS HATCHING INDICATES 'MAIN PANELBOARD OR SWITCHBOARD' NAME IS INDICATED IN SEMI-QUOTES (I.E. 'L2A', 'MDP')
	SWITCHBOARD	FLOOR	
	METER BASE	TOP AT +72"	FURNISH SWITCH UNLESS FURNISHED BY ANOTHER DIVISION. INSTALL AND CONNECT COMPLETE. REFER TO RELATED SPECIFICATION SECTIONS.
	OPEN - STOP - CLOSE SWITCH	+60"	
	HVAC THERMOSTAT	+60"	PROVIDED BY DIVISION 23
	HAND - OFF - AUTO SWITCH	+60"	
	GROUND FAULT PROTECTION		

BRANCH CIRCUITING SYMBOLS		
SYMBOL	DESCRIPTION	REMARKS
	1 CIRCUIT, 2 WIRE BRANCH CIRCUIT HOME RUN TO PANEL	ARROWS: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS REQUIRED.
	2 CIRCUIT, 4 WIRE BRANCH CIRCUIT HOME RUN TO PANEL	SHORT CROSS LINES: NUMBER OF SHORT CROSS LINES INDICATES NUMBER OF PHASE, TRAVELER, AND/OR SWITCHED CONDUCTORS REQUIRED IF GREATER THAN 1 (ONE).
	3 CIRCUIT, 6 WIRE BRANCH CIRCUIT HOME RUN TO PANEL	LONG CROSS LINES: NUMBER OF LONG CROSS LINES INDICATES NUMBER OF NEUTRAL CONDUCTORS REQUIRED FOR MULTI-WIRE HOME RUNS.
	MULTIPLE WIRE BRANCH CIRCUITING BETWEEN FIXTURES, SWITCHES, DEVICES, ETC.	EQUIPMENT GROUND AND ISOLATED GROUND CONDUCTORS: EQUIPMENT GROUND AND ISOLATED GROUND CONDUCTORS ARE NOT SHOWN, BUT ARE REQUIRED AS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
	BRANCH CIRCUITING (U.N.O.) TURNED UP OR TOWARDS OBSERVER.	
	BRANCH CIRCUITING (U.N.O.) TURNED DOWN OR AWAY FROM OBSERVER.	
	BRANCH CIRCUITING (U.N.O.) CONTINUATION	
	CONDUIT STUB-IN	CAP AND MARK
	INCOMING SERVICE	
	JUNCTION BOX	MOUNT AS NOTED. SUBSCRIPT 'F' INDICATES TO PROVIDE A FLOOR BOX WITH BLANK COVERPLATE

LIGHTING SYMBOLS			
SYMBOL	DESCRIPTION	MOUNTING	REMARKS
1. LIGHT FIXTURE SYMBOLS ARE GENERAL IN NATURE AND MAY BE SHOWN ON THE DRAWINGS IN VARIOUS SIZES AND SHAPES. REFER TO THE LIGHT FIXTURE SCHEDULE FOR SPECIFICATION INFORMATION.			
2. ARROWS INDICATE AIMING DIRECTION.			
	ARM-MOUNTED SINGLE-HEAD LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED	
	ARM-MOUNTED DOUBLE-HEAD LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED	
	POST-TOP SINGLE-HEAD, LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED	
	WALL-MOUNTED FIXTURE	AS SPECIFIED OR DETAILED	REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT
	LIGHT BOLLARD	AS SPECIFIED OR DETAILED	
	FLOOD LIGHT	AS SPECIFIED OR DETAILED	
	ELECTRIC PHOTOCELL	N/A	MOUNT ON ROOF FACING NORTH SKY
	LIGHT FIXTURE CALLOUT (LETTER DENOTES FIXTURE TYPE)		

ELECTRICAL SYMBOL SCHEDULE GENERAL NOTES	
1.	MOUNT ALL OUTLETS, DEVICES, AND EQUIPMENT AT HEIGHTS INDICATED BELOW, UNLESS NOTED OTHERWISE ON THE DRAWINGS. UNLESS NOTED OTHERWISE, HEIGHTS ARE GIVEN FROM FINISHED FLOOR TO CENTER OF OUTLET BOX.
2.	WHERE OUTLETS, DEVICES, AND EQUIPMENT ARE NOTED BY SUBSCRIPTS, REFER TO ABBREVIATION SCHEDULE FOR DEFINED REQUIREMENTS.
3.	WHERE OUTLETS, DEVICES AND EQUIPMENT ARE NOTED BY THE SUBSCRIPT 'A', MOUNT AT 4" ABOVE COUNTER. IF COUNTER HAS A BACK SPLASH, MOUNT AT 4" ABOVE BACK SPLASH. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS AND COORDINATE WITH CASEWORK SUPPLIER.
4.	NOT ALL ELECTRICAL SYMBOLS MAY BE USED.

GENERAL SYMBOLS		
SYMBOL	DESCRIPTION	REMARKS
	KEYED NOTE	
	DETAIL REFERENCE	TOP NUMBER INDICATES DETAIL NUMBER, BOTTOM LETTER-NUMBER INDICATES WHERE DETAIL IS SHOWN.
	ELEVATION REFERENCE	TOP NUMBER INDICATES ELEVATION NUMBER, BOTTOM LETTER-NUMBER INDICATES WHERE ELEVATION IS SHOWN.
	SECTION REFERENCE	TOP NUMBER INDICATES SECTION NUMBER, BOTTOM LETTER-NUMBER INDICATES WHERE SECTION IS SHOWN.
	ARCHITECTURAL ROOM NUMBER	
	EQUIPMENT NAME / NUMBER	TOP NUMBER ABBREVIATES EQUIPMENT NAME OR TYPE, BOTTOM NUMBER INDICATES EQUIPMENT NUMBER. REFER TO EQUIPMENT SCHEDULE.
	REVISION NUMBER	USED TO DENOTE CHANGES EITHER ISSUED BY ADDENDUM OR DURING CONSTRUCTION AND TO DENOTE RECORD DRAWING CHANGES.
	BREAKLINE	USED TO BREAK DRAWINGS.

UTILITY COORDINATION REQUIREMENTS:

THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY ALL REQUIREMENTS AND LOCATIONS TO EXTEND CONDUITS FOR UTILITY USE WITHIN 2 WEEKS OF THE CONTRACT AWARD. THE CONTRACTOR SHALL NOT ROUGH-IN ANY CONDUITS UNTIL THE UTILITY COORDINATION IS COMPLETE AND ALL LOCATIONS ARE KNOWN. THE CONTRACTOR SHALL PROVIDE TO THE ARCHITECT AND ENGINEER A WRITTEN, SIGNED STATEMENT, INCLUDING A SKETCH OF LOCATIONS, FROM THE UTILITY COMPANY NOTIFYING THEM THAT THEY HAVE COORDINATED AND VERIFIED ALL REQUIREMENTS. IF THE CONTRACTOR DOES NOT COORDINATE AND VERIFY THE REQUIREMENTS WITH THE UTILITIES OR PROVIDE A WRITTEN STATEMENT FROM THE UTILITY COMPANY TO THE ARCHITECT AND ENGINEER ALL CHANGES DUE TO LACK OF COORDINATION WILL BE DONE AT NO ADDITIONAL EXPENSE TO THE OWNER.

ELECTRICAL SHEET INDEX	
ES100	ELECTRICAL SYMBOLS AND OVERALL CONTEXT PLAN
ES101	ELECTRICAL SITE PLAN
ES102	ELECTRICAL SITE PLAN
ES103	ELECTRICAL SITE PLAN
ES104	ELECTRICAL SITE PLAN
ES105	ELECTRICAL SITE PLAN
ES106	ELECTRICAL SITE PLAN
ES107	ELECTRICAL SITE PLAN
ESS01	ELECTRICAL DETAILS

- GENERAL PROJECT NOTES:**
- DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR READING AND APPLYING WHAT IS IN THE SPECIFICATIONS TO THIS PROJECT. ANYTHING THAT IS NOT INCLUDED ON THE PROJECT THAT IS CALLED OUT IN THE SPECIFICATION SHALL BE LISTED ON THE SUBSTANTIAL COMPLETION PUNCHLIST. THE CONTRACTOR WILL BE REQUIRED TO REMEDY THESE DEFICIENCIES WITHOUT ADDITIONAL COSTS TO OWNER. THERE WILL BE NO EXCEPTIONS.
 - THE CONTRACTOR MAY SCHEDULE A PRE-CONSTRUCTION MEETING, AT THEIR DISCRETION, WITH THE ELECTRICAL ENGINEER TO REVIEW THE DRAWINGS AND SPECIFICATIONS. THE MEETING SHALL BE A MAXIMUM OF ONE HOUR AND SHALL TAKE PLACE AT THE ENGINEER'S OFFICE.
 - THE FOLLOWING ITEMS ARE SOME OF THE REQUIREMENTS THAT ARE LISTED IN THE SPECIFICATIONS. THESE ITEMS ARE NOT ALL INCLUSIVE, AND THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE TO ALL REQUIREMENTS OF THE SPECIFICATIONS.
 - INSULATED THROAT CONNECTORS OR PLASTIC BUSHINGS SHALL BE UTILIZED FOR ALL CONDUIT SIZES USED ON THIS PROJECT.
 - A DEDICATED NEUTRAL CONDUCTOR WILL BE PROVIDED FOR ALL LIGHTING AND POWER CIRCUITS.
 - THE CONTRACTOR SHALL LABEL ALL ELECTRICAL EQUIPMENT AS IT IS CALLED OUT IN THE SPECIFICATIONS.
 - THE CONTRACTOR SHALL PROVIDE SEISMIC SUPPORT AND BRACING FOR ALL LIGHT FIXTURES AND ELECTRICAL EQUIPMENT AS REQUIRED BY APPLICABLE LOCAL AND NATIONAL CODES.
 - THE CONTRACTOR SHALL FOLLOW THE PANELBOARD SCHEDULES AS INDICATED IN THE DRAWINGS. EACH CIRCUIT BREAKER HAS BEEN ASSIGNED TO A SPECIFIC AREA OF THE BUILDING. NO DEVIATION WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE ELECTRICAL ENGINEER.
 - AT A MINIMUM THE CONTRACTOR SHALL INSTALL THE WIRE SIZE AS CALLED OUT ON THE PANELBOARD SCHEDULES. HOWEVER, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE WIRE IS SIZED LARGE ENOUGH TO ALLOW FOR VOLTAGE DROP.
 - THE CONTRACTOR SHALL VERIFY ALL MECHANICAL OVERCURRENT DEVICES FOR THE ACTUAL MECHANICAL EQUIPMENT SUPPLIED ON THE JOB, PRIOR TO RELEASE OF ANY ELECTRICAL DISTRIBUTION EQUIPMENT. CONTACT THE ELECTRICAL ENGINEER WITH ANY DISCREPANCIES.
 - THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING THE BID, AND SHALL EXAMINE ALL PHYSICAL CONDITIONS WHICH MAY BE MATERIAL TO THE PERFORMANCE OF HIS WORK. NO ADDITIONAL PAYMENTS WILL BE ALLOWED TO THE CONTRACTOR AS A RESULT OF EXTRA WORK MADE NECESSARY BY HIS FAILURE TO DO SO. ANY CASE OF DISCREPANCY OR LACK OF CLARITY SHALL BE PROMPTLY IDENTIFIED TO THE OWNER'S REPRESENTATIVE AND THE ENGINEER FOR CLARIFICATION.

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PROJECT IDENTIFICATION:

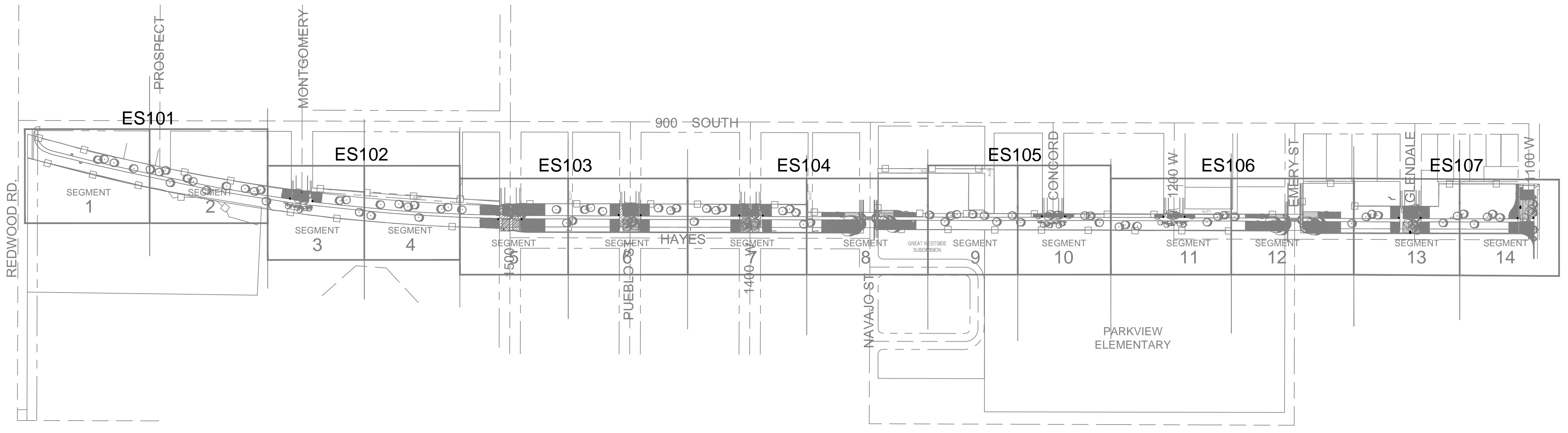
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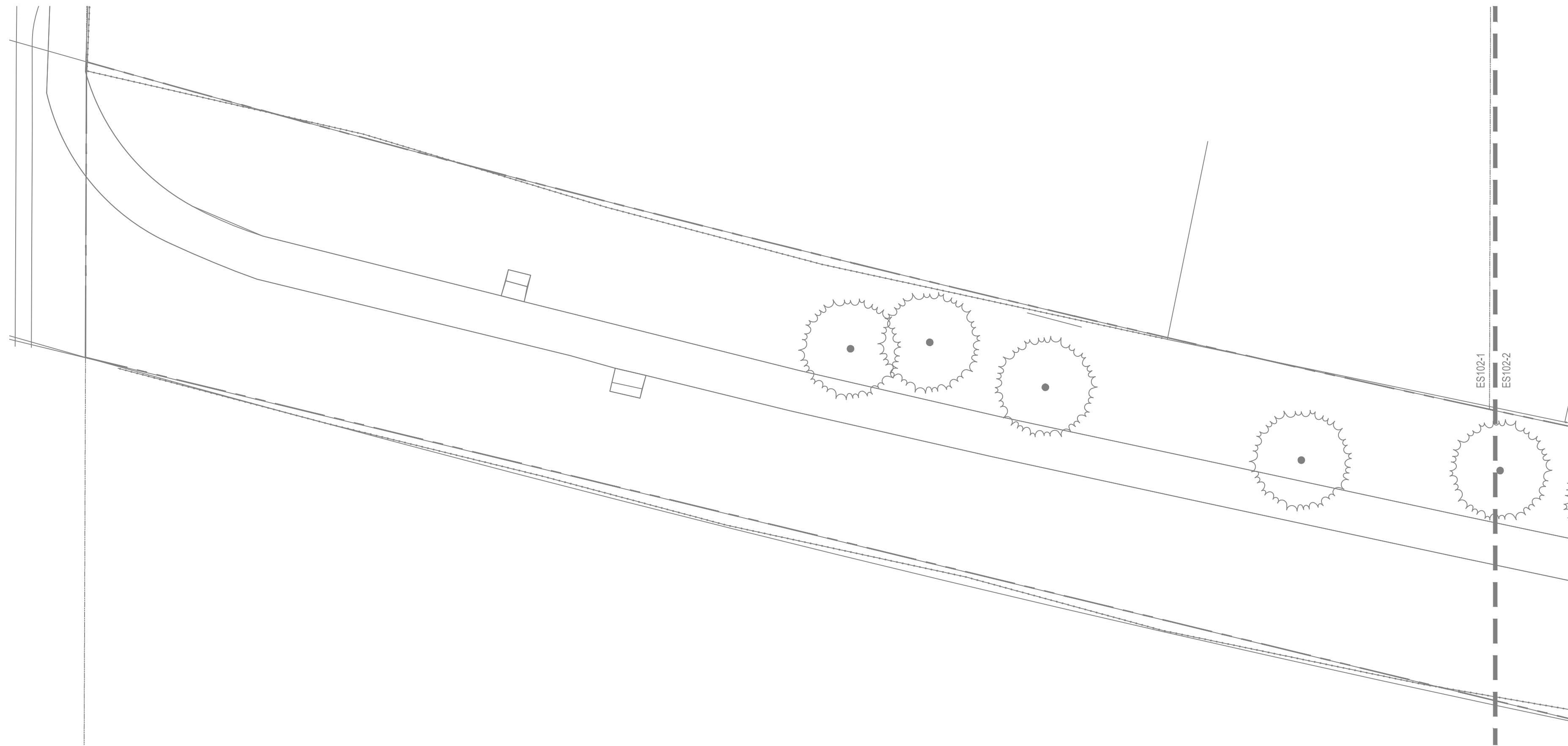


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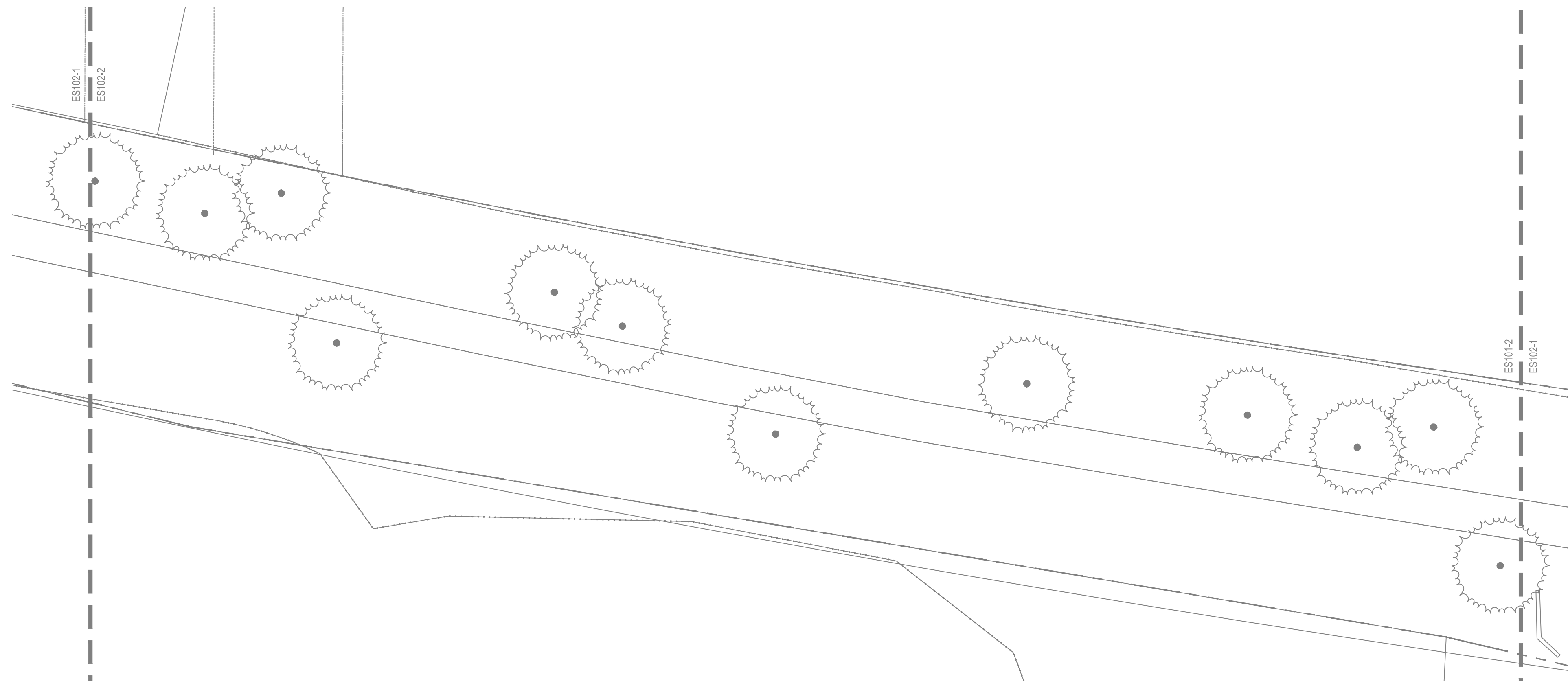
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SHEET TITLE:
ELECTRICAL SYMBOLS AND OVERALL CONTEXT PLAN

SHEET IDENTIFIER:
ES100
BINDING ORDER



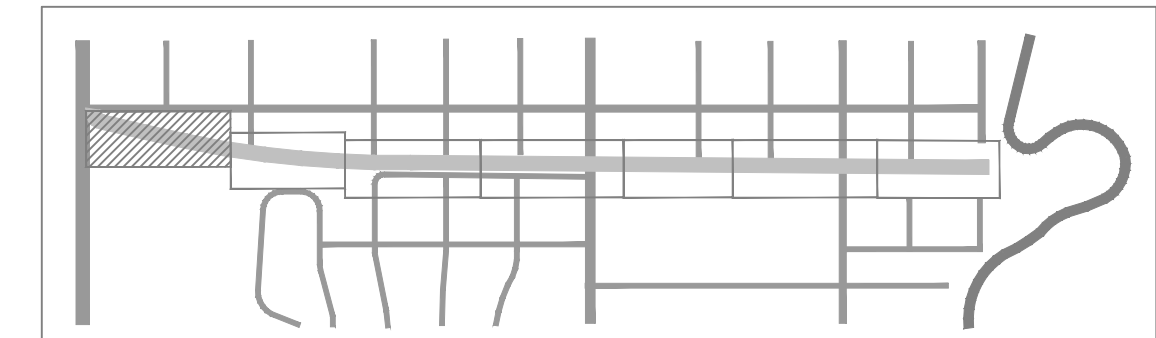
1 SEGMENT 1 ELECTRICAL PLAN
1" = 20'-0"



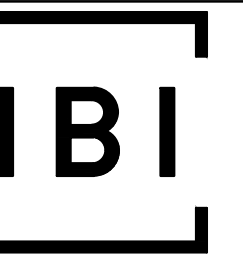
2 SEGMENT 2 ELECTRICAL PLAN
1" = 20'-0"

NO ELECTRICAL WORK ON THIS SHEET

KEY PLAN



PREPARER:

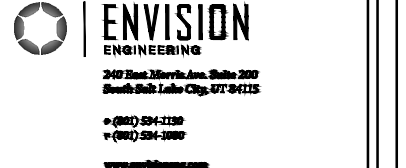


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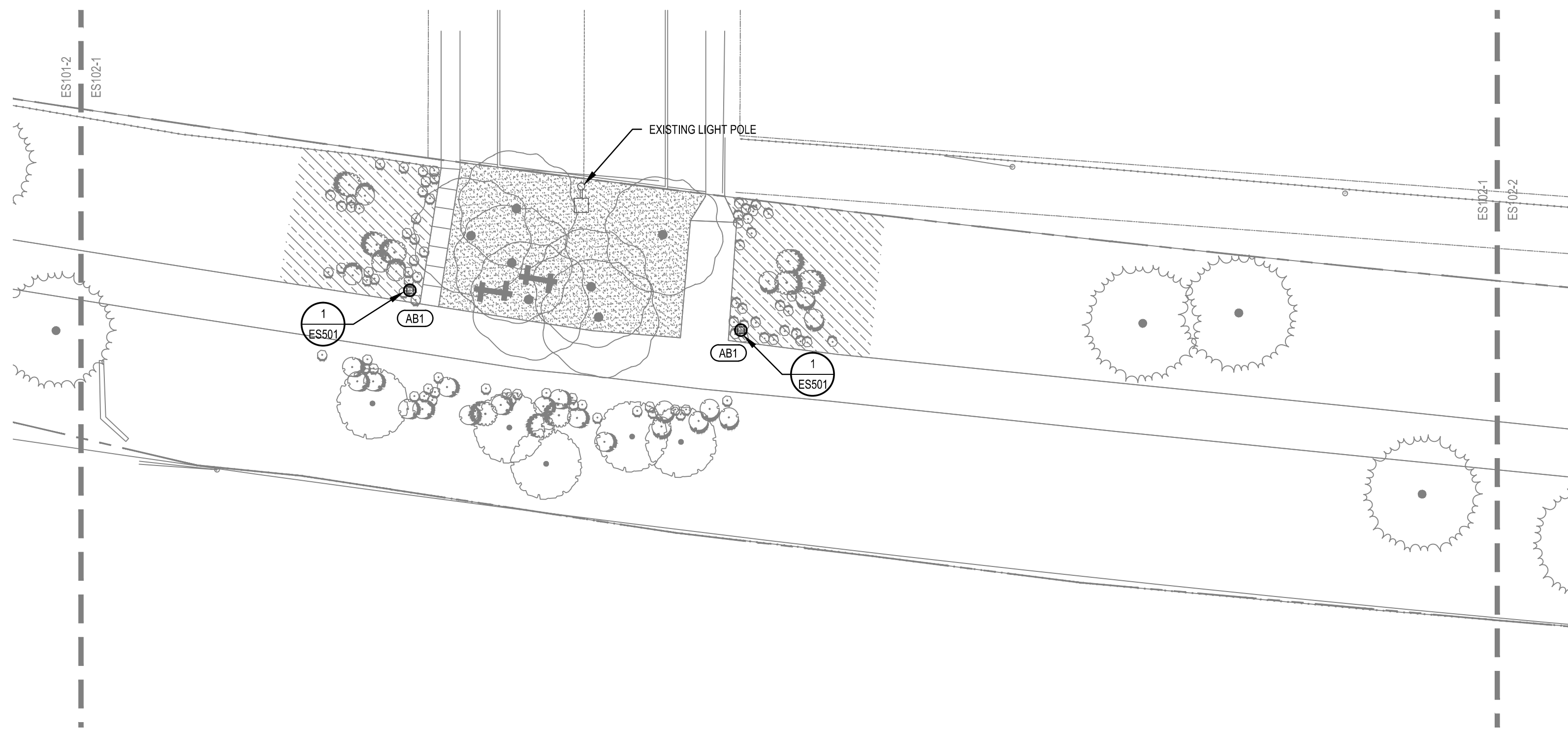
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ELECTRICAL SITE PLAN

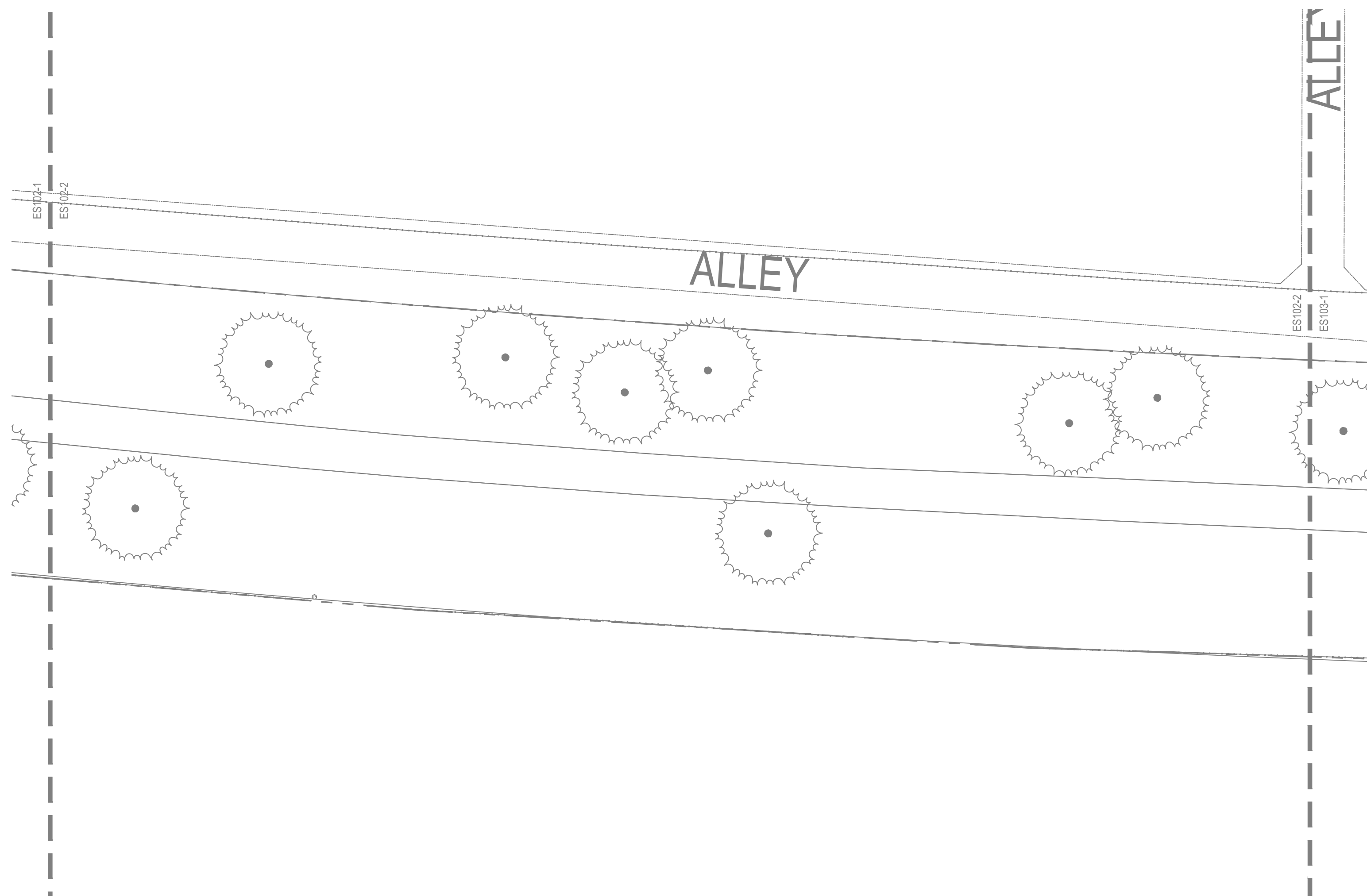
SHEET IDENTIFIER:

ES101

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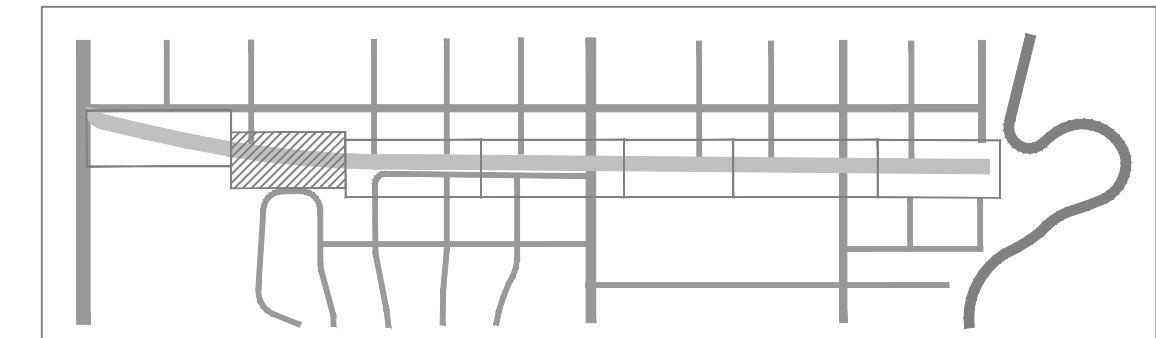


1 SEGMENT 3 ELECTRICAL PLAN
1" = 20'-0"

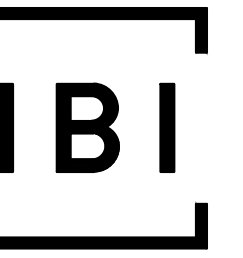


2 SEGMENT 4 ELECTRICAL PLAN
1" = 20'-0"

KEY PLAN



PREPARER:

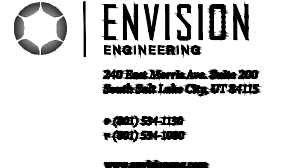


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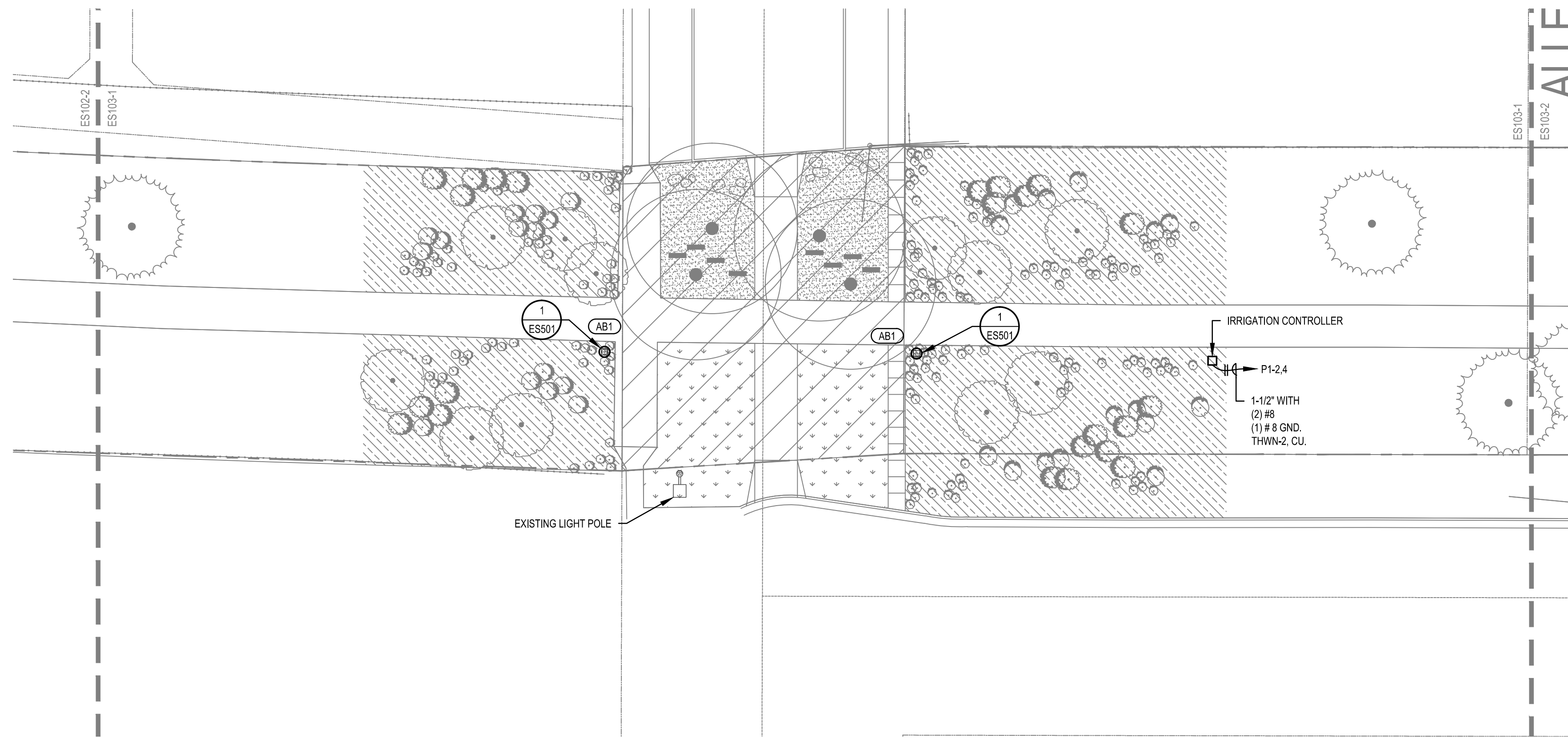
SHEET TITLE:

ELECTRICAL SITE PLAN

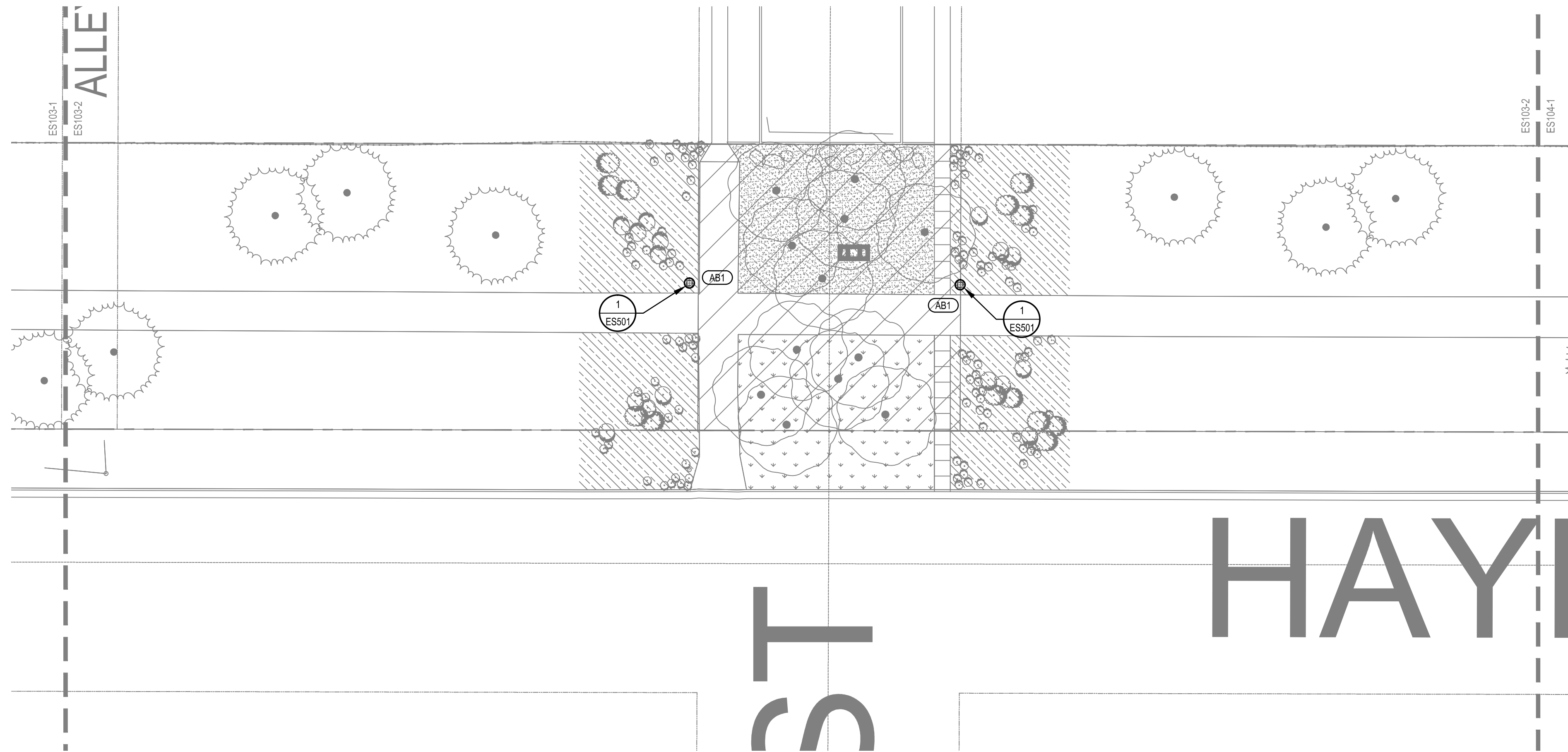
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ES102

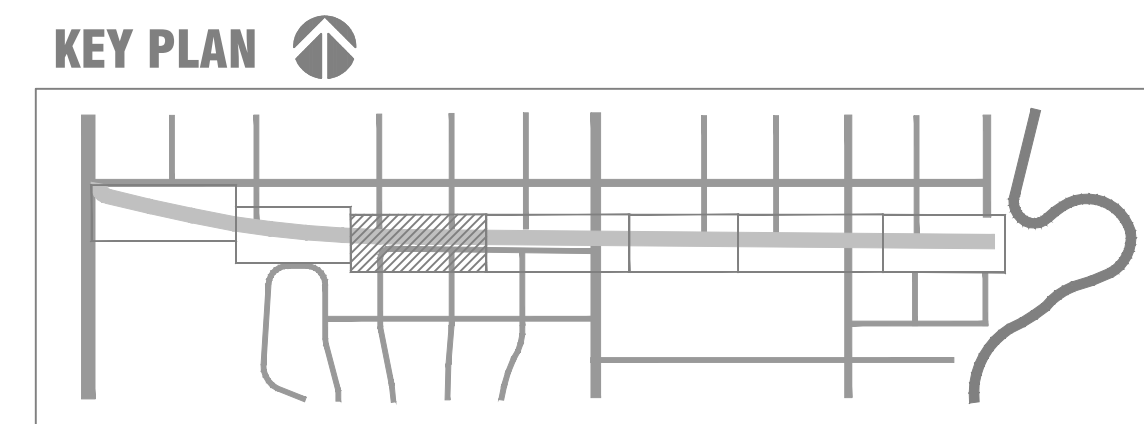
BINDING ORDER



1 SEGMENT 5 ELECTRICAL PLAN
1"=20'-0"



2 SEGMENT 6 ELECTRICAL PLAN
1"=20'-0"



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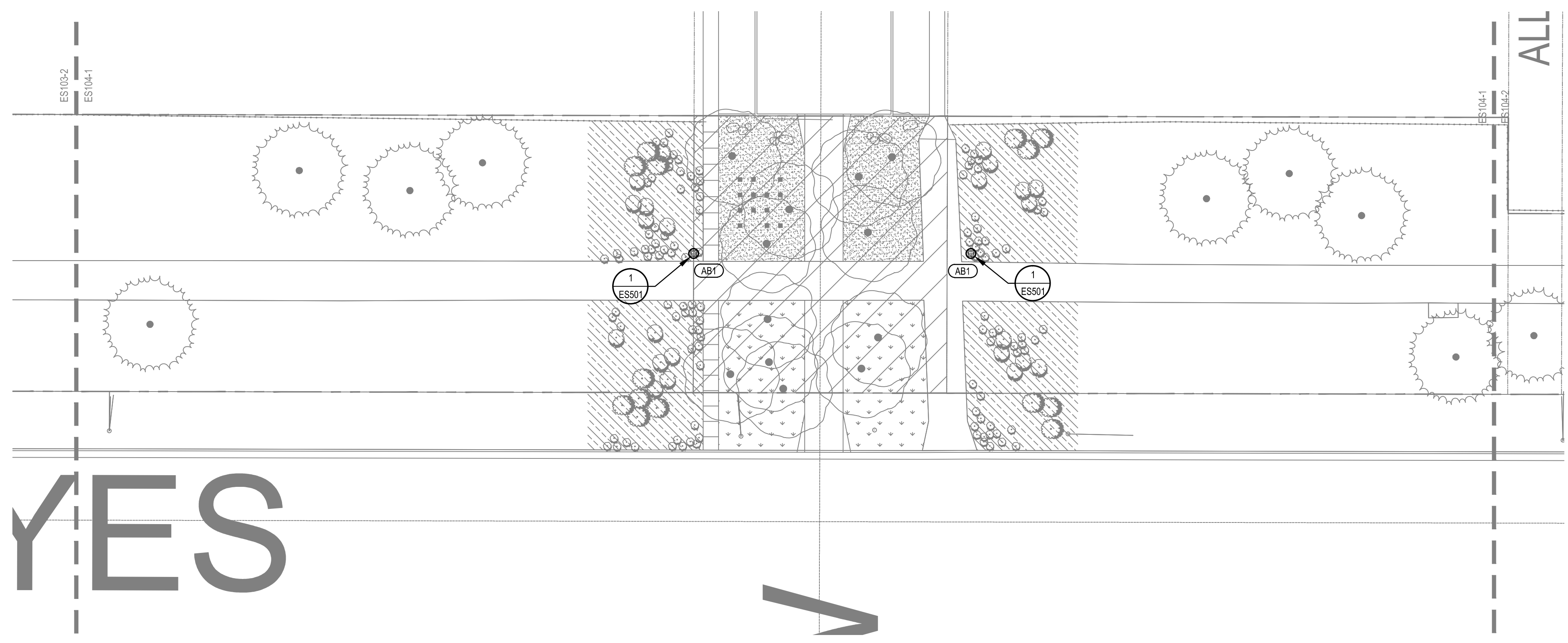
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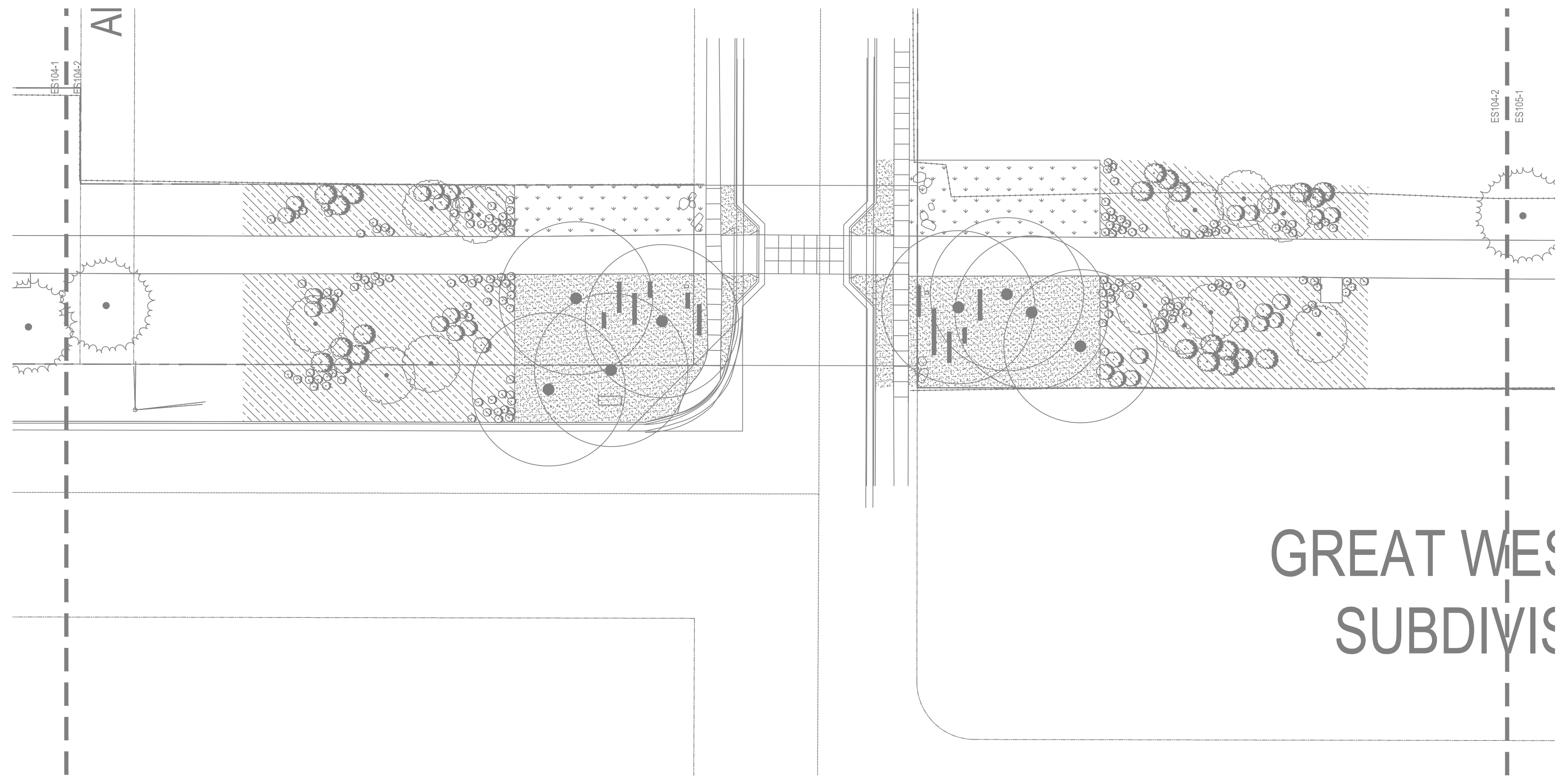
SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET IDENTIFIER:
ES103
BINDING ORDER

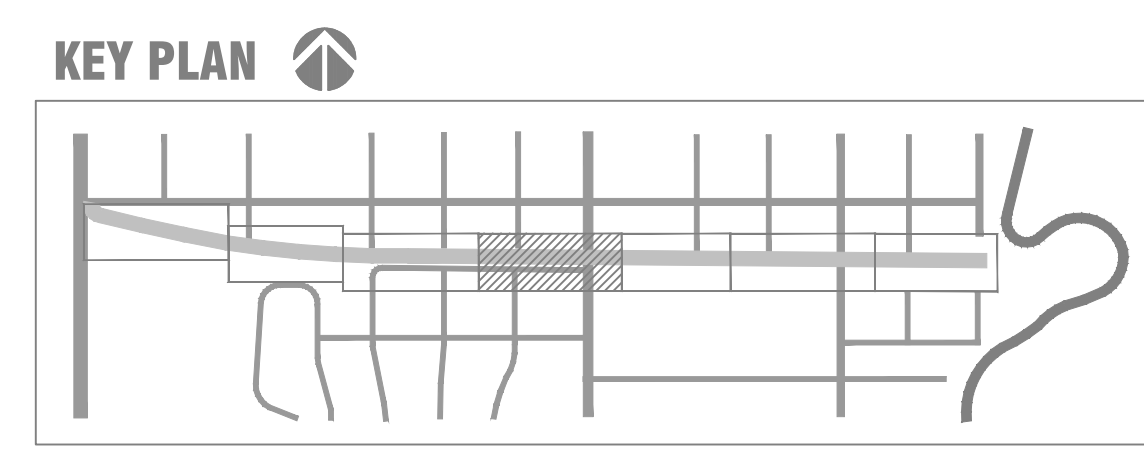


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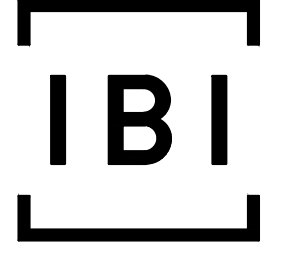
1 SEGMENT 7 ELECTRICAL PLAN
1"=20'-0"



2 SEGMENT 8 ELECTRICAL PLAN
1"=20'-0"

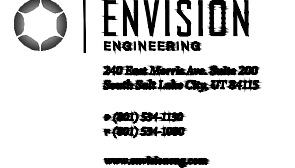


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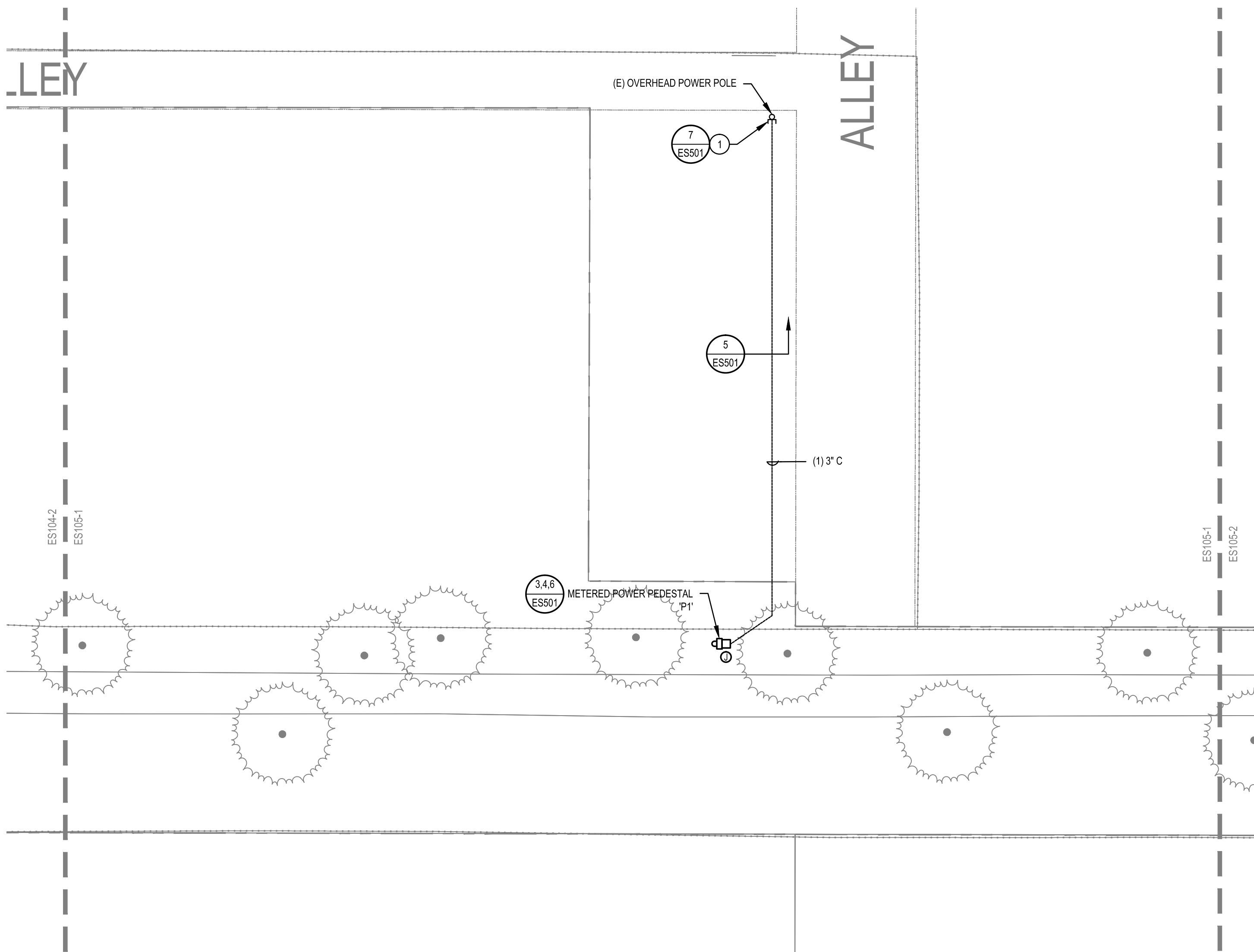
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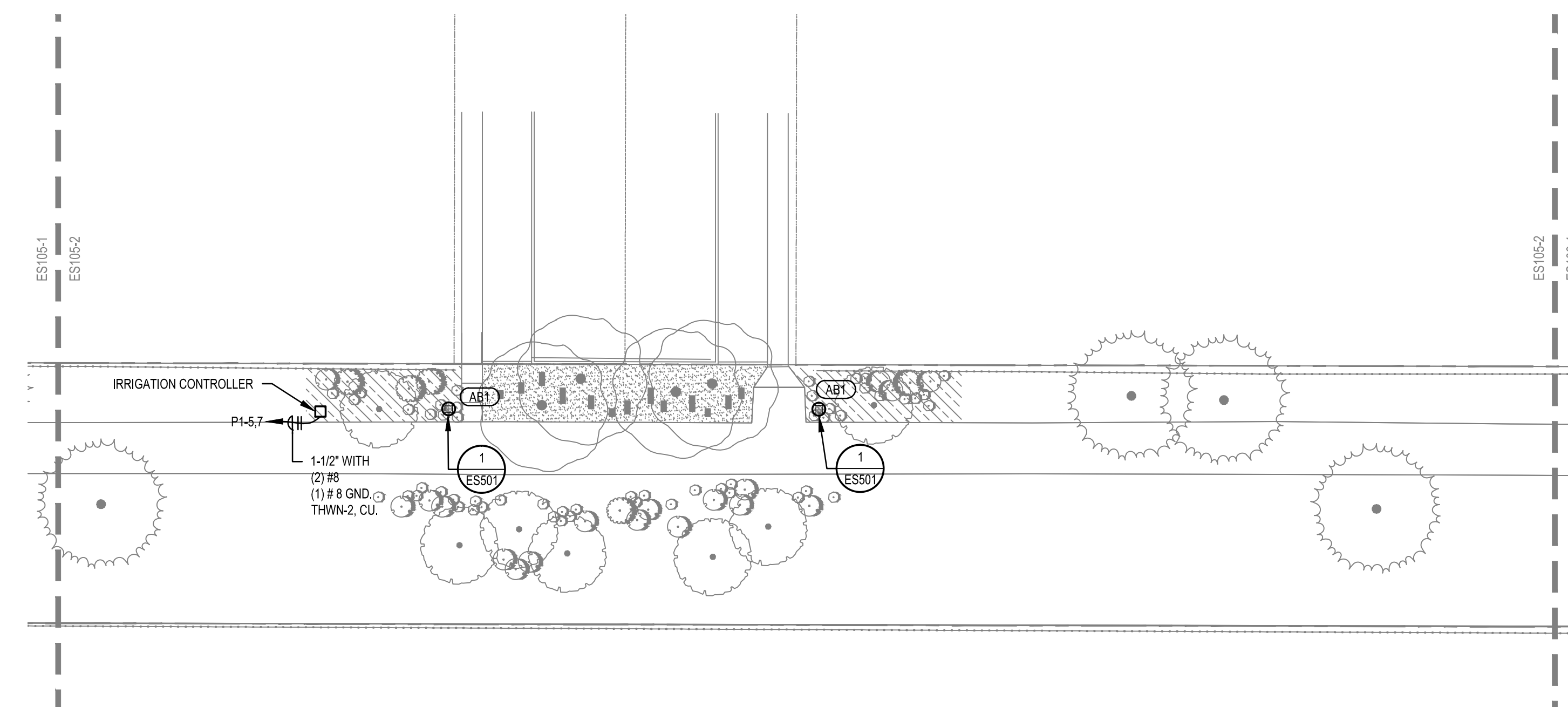
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SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET IDENTIFIER:
ES104
BINDING ORDER

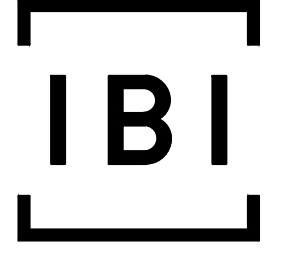


1 SEGMENT 9 ELECTRICAL PLAN
1" = 20'-0"




2 SEGMENT 10 ELECTRICAL PLAN
1" = 20'-0"

KEYED NOTES: #

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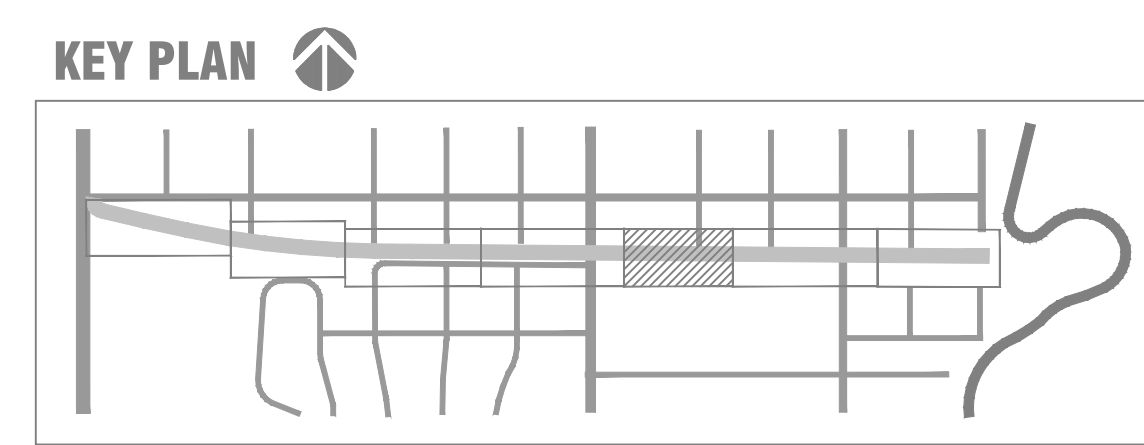
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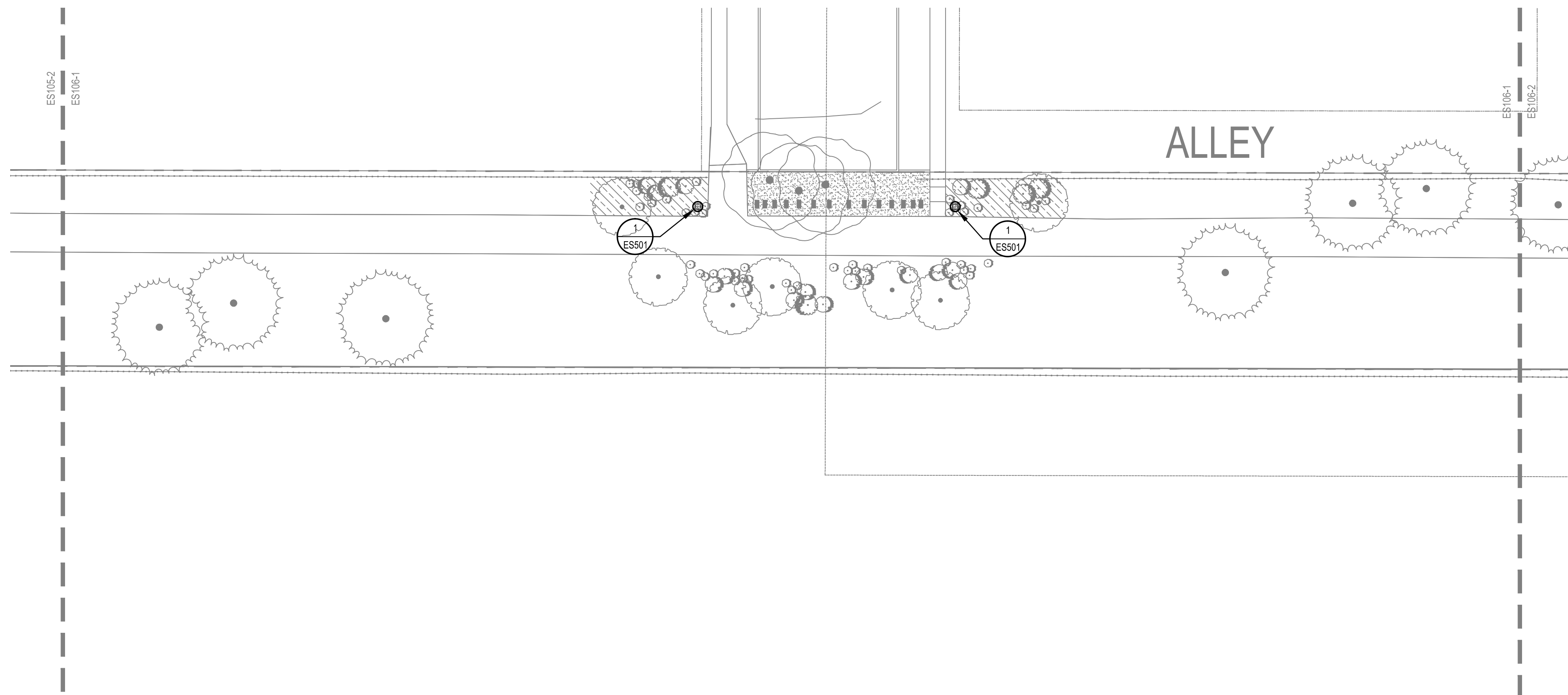
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 CONTRACT #: 300124
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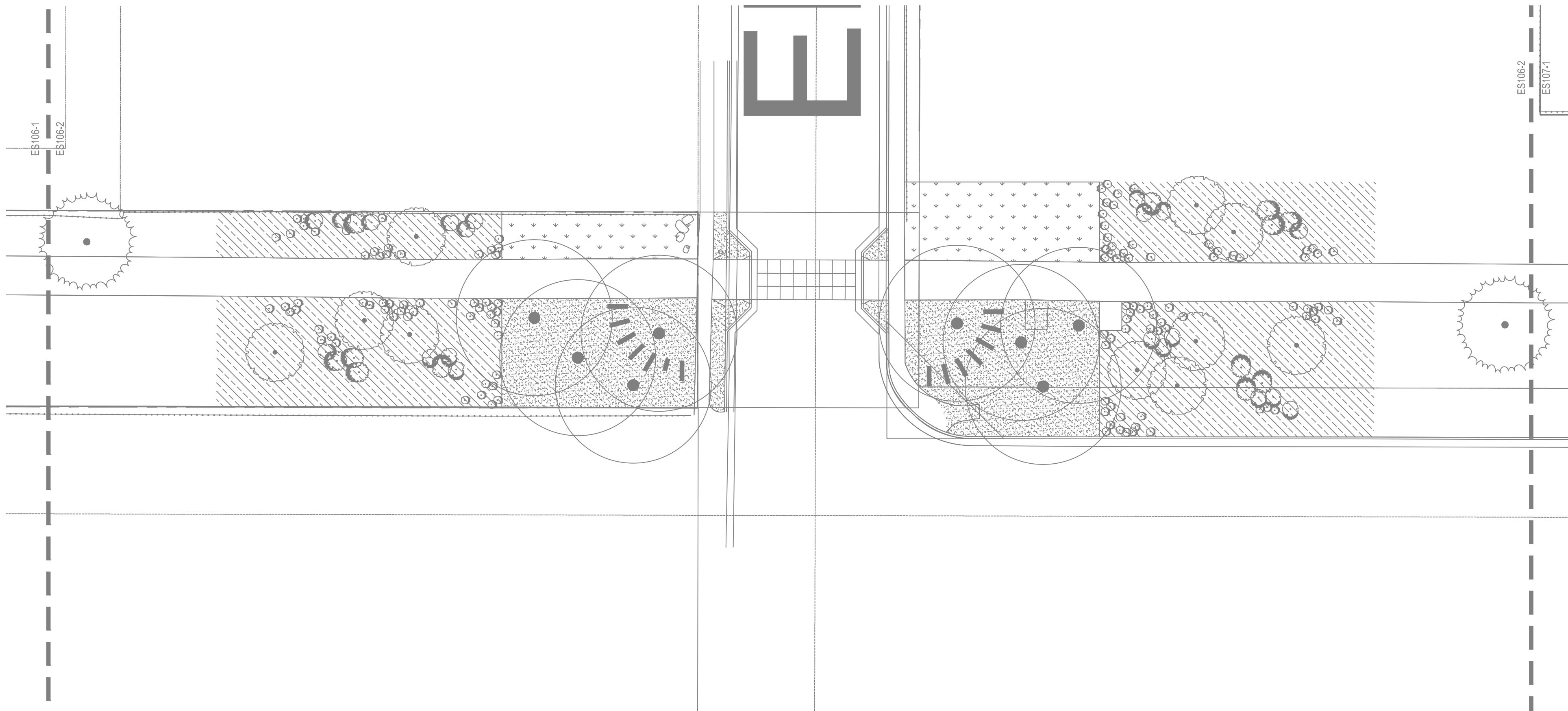
SHEET TITLE:
 ELECTRICAL SITE PLAN

SHEET IDENTIFIER:
ES105
 BINDING ORDER



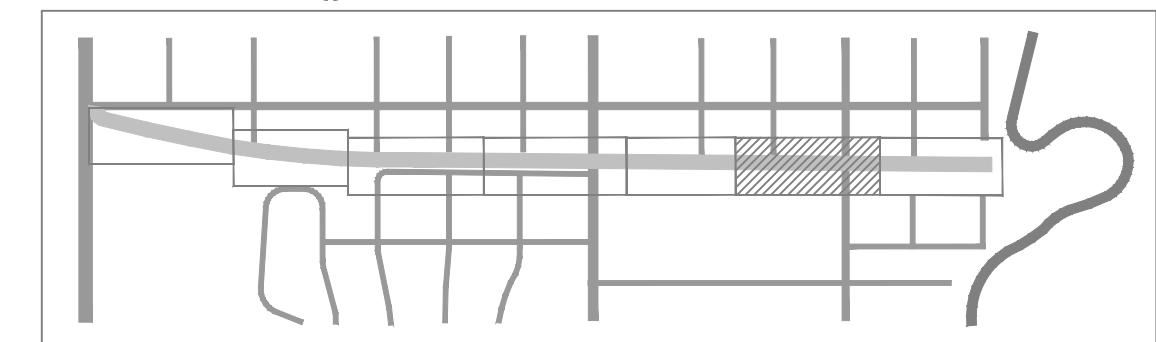


1 SEGMENT 11 ELECTRICAL PLAN
1"=20'-0"

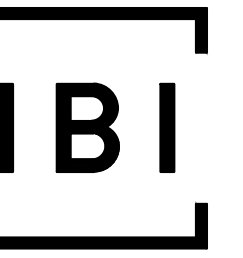


2 SEGMENT 12 ELECTRICAL PLAN
1"=20'-0"

KEY PLAN



PREPARER:

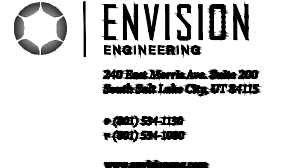


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ELECTRICAL ENGINEER:



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PREPARER #: 105616

CONTRACT #: 300124

PROJECT #: 240505

FILE #:

DRAWING FILE:

DRAWN BY: DA

CHECKED BY: DW

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DATE: 2/12/2018

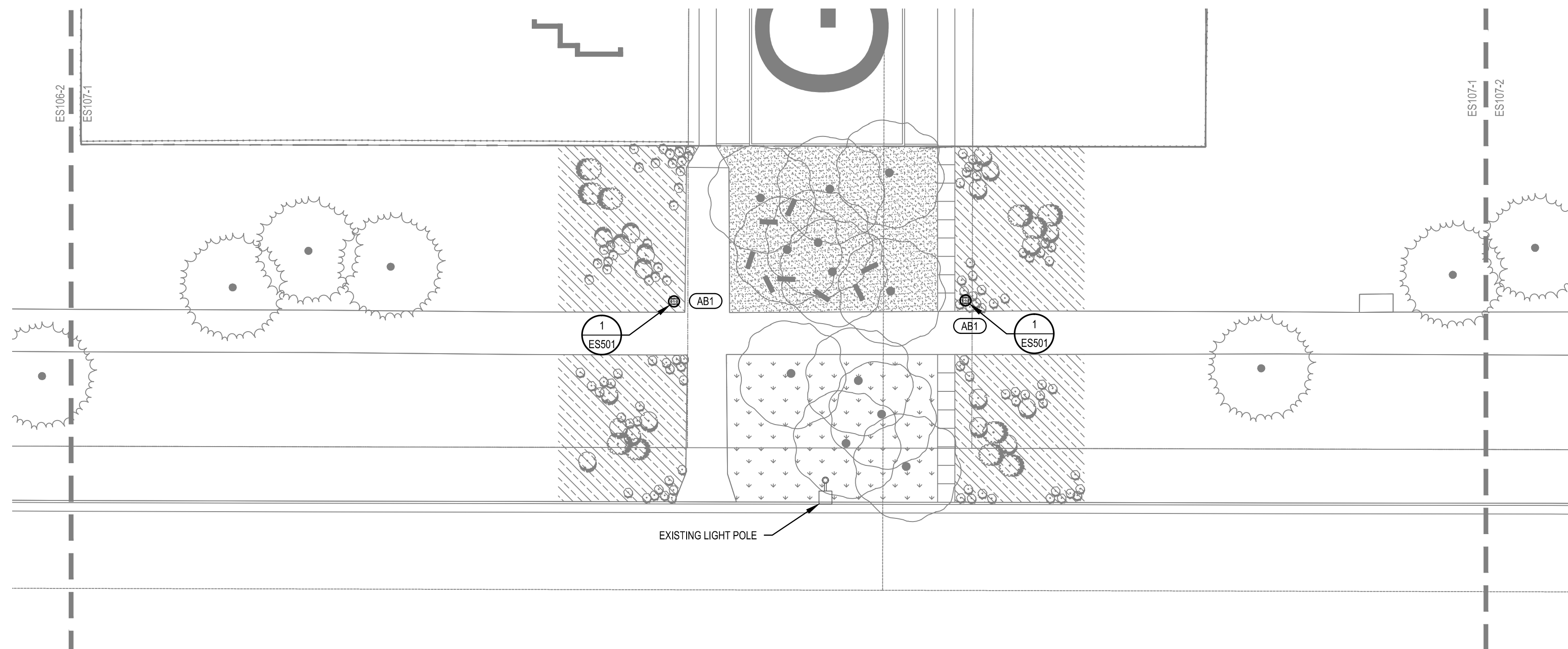
SHEET TITLE:

ELECTRICAL SITE
PLAN

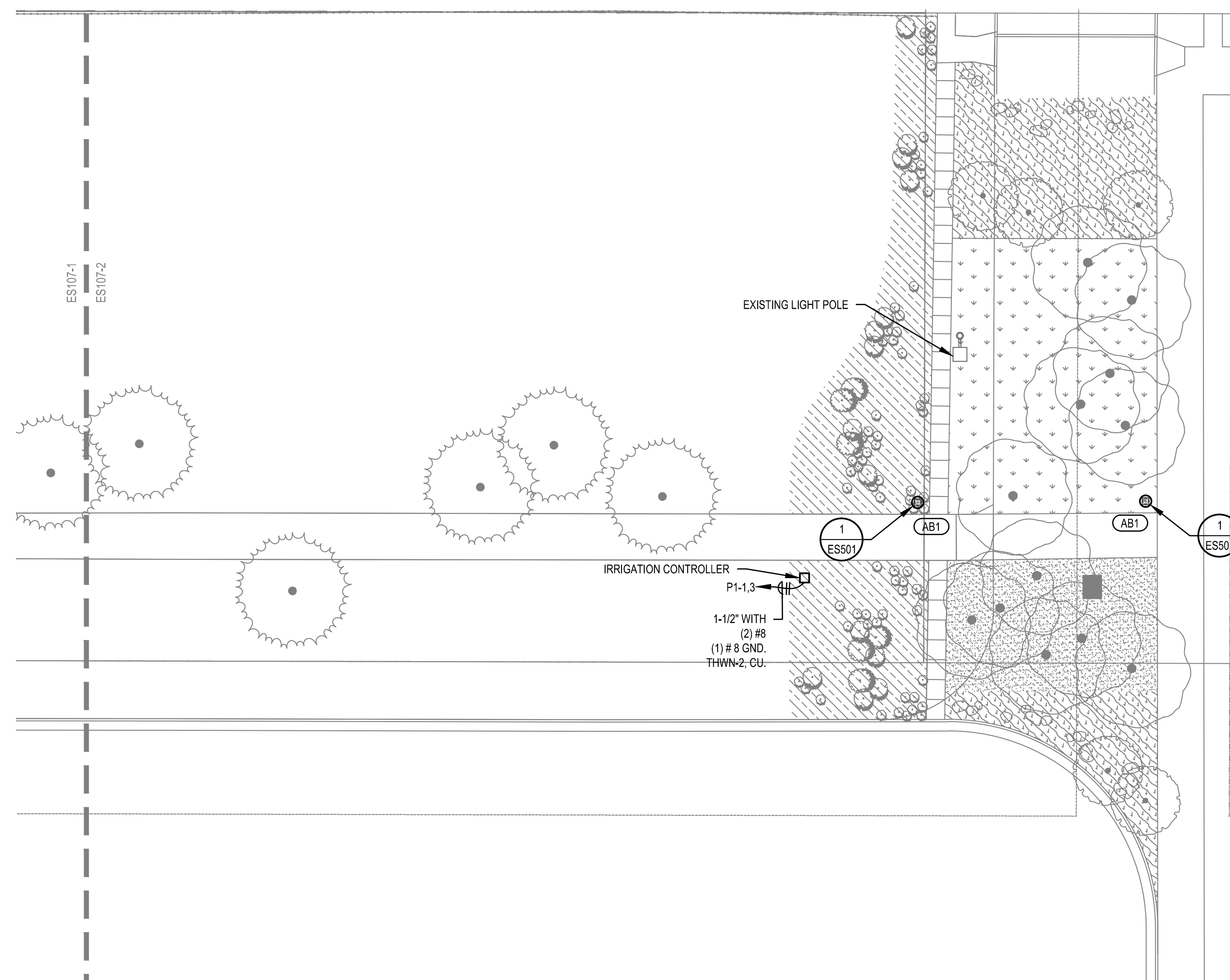
SHEET IDENTIFIER:

ES106

BINDING
ORDER

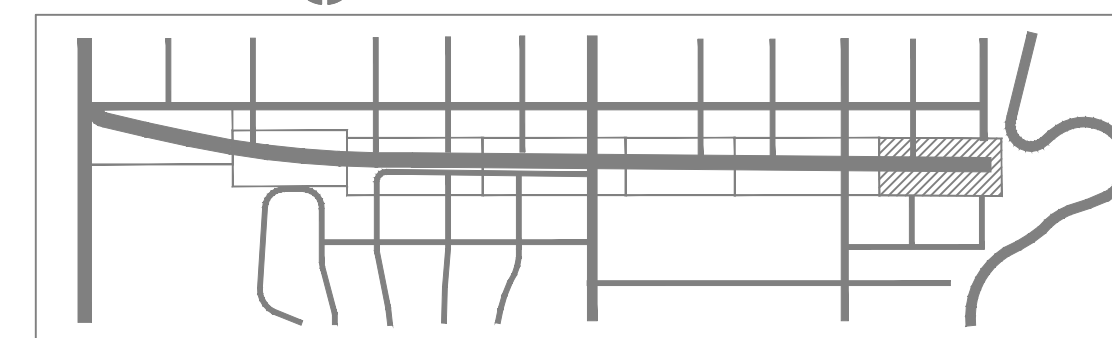


1 SEGMENT 13 ELECTRICAL PLAN
1" = 20'-0"

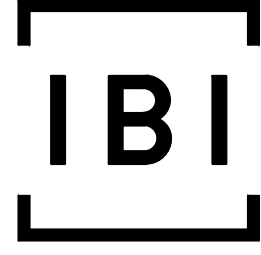


2 SEGMENT 14 ELECTRICAL PLAN
1" = 20'-0"

KEY PLAN



PREPARER:




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STRUCTURAL ENGINEER:

ELECTRICAL ENGINEER:



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PROJECT IDENTIFICATION:

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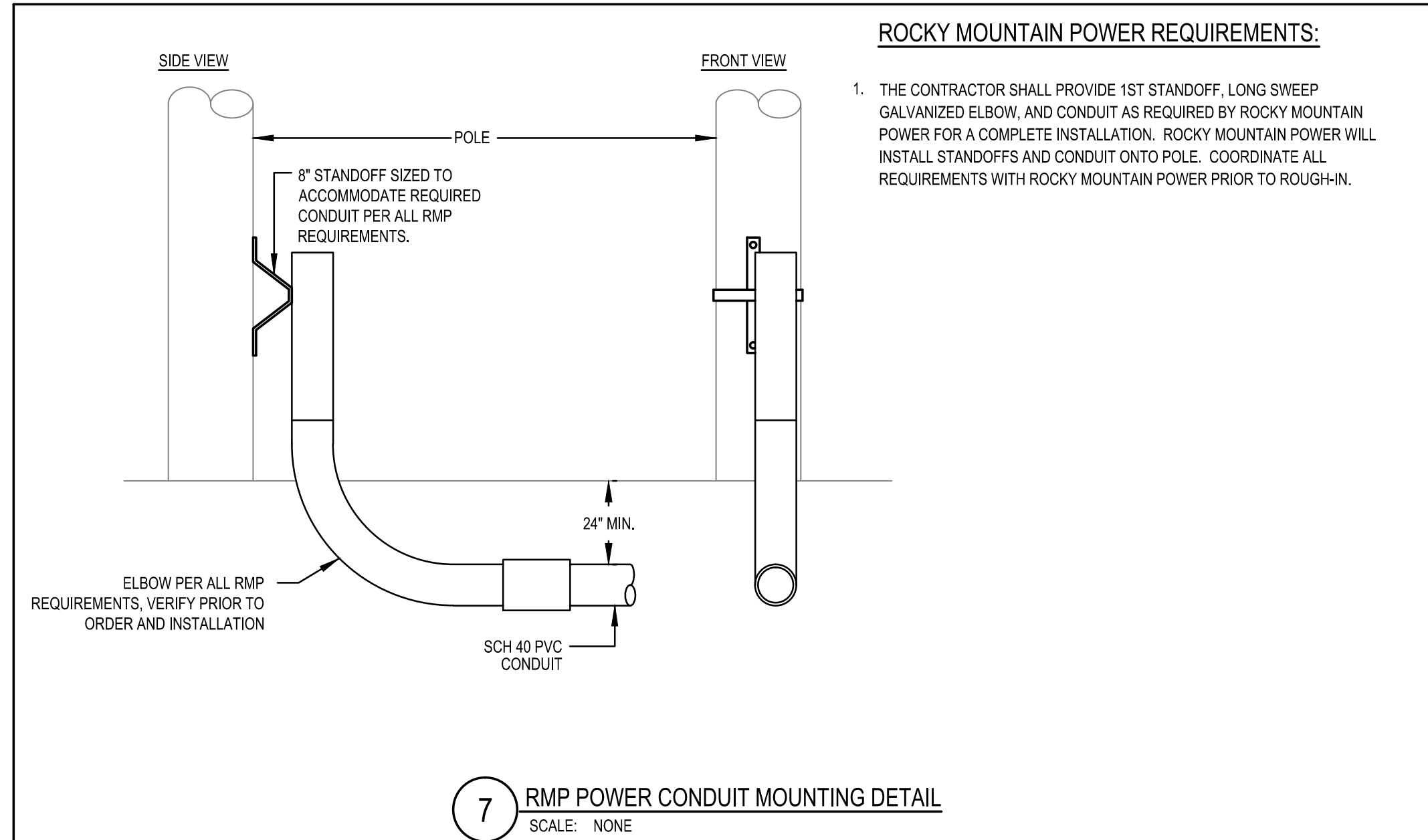
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SHEET TITLE:
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SHEET IDENTIFIER:
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7 RMP POWER CONDUIT MOUNTING DETAIL
SCALE: NONE

TYPE	MANUFACTURER	SERIES	DESCRIPTION	MOUNTING	VOLTAGE	WATTS	DRIVER TYPE	LAMP TYPE	QTY.	COMMENTS
AB1	VERTAIC	VPS-M10-1SP NO SUBSTITUTIONS	39\"/>							

KEYED NOTE	CIRCUIT DESCRIPTION	BREAKER AMPS	LOAD AMPS	PKT. #	CONNECTED LOAD/PHASE (VA)	PKT. #	LOAD AMPS	BREAKER AMPS	CIRCUIT DESCRIPTION	KEYED NOTE	
	IRRIGATION CONTROLLER	20	2	E 1	200	200	2	E 20	IRRIGATION CONTROLLER		
	IRRIGATION CONTROLLER	20	2	E 5	200	200	4	E 20			
	SPARE	20	1	E 7		200	8	20	SPARE		
	SPARE	20	1	E 9			10	20	SPARE		
	SPARE	20	1	E 11			12	20	SPARE		
TOTAL CONNECTED LOAD PER PHASE (VA):					600	600					
TOTAL ESTIMATED DEMAND LOAD PER PHASE (VA):					600	600					
TOTAL ESTIMATED DEMAND LOAD PER PHASE (AMPS):					5	5					

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
P	SUB-PANEL	SUB-PANEL LOADS BROKEN OUT BY LOAD CLASSIFICATION BELOW			
R	RECEPTACLES	-	-	-	TOTAL CONNECTED LOAD: 1,200 VA
L	LIGHTING	-	-	-	25% OF LARGEST MOTOR: -
C	CONTINUOUS	-	-	-	TOTAL ESTIMATED DEMAND LOAD: 1,200 VA
E	EQUIPMENT	1,200 VA	100%	1,200 VA	TOTAL ESTIMATED DEMAND BALANCED CURRENT: 5 AMPS
M	MOTOR	-	-	-	MAXIMUM ESTIMATED DEMAND PHASE CURRENT: 5 AMPS
K	KITCHEN	-	-	-	
	OTHER	-	-	-	

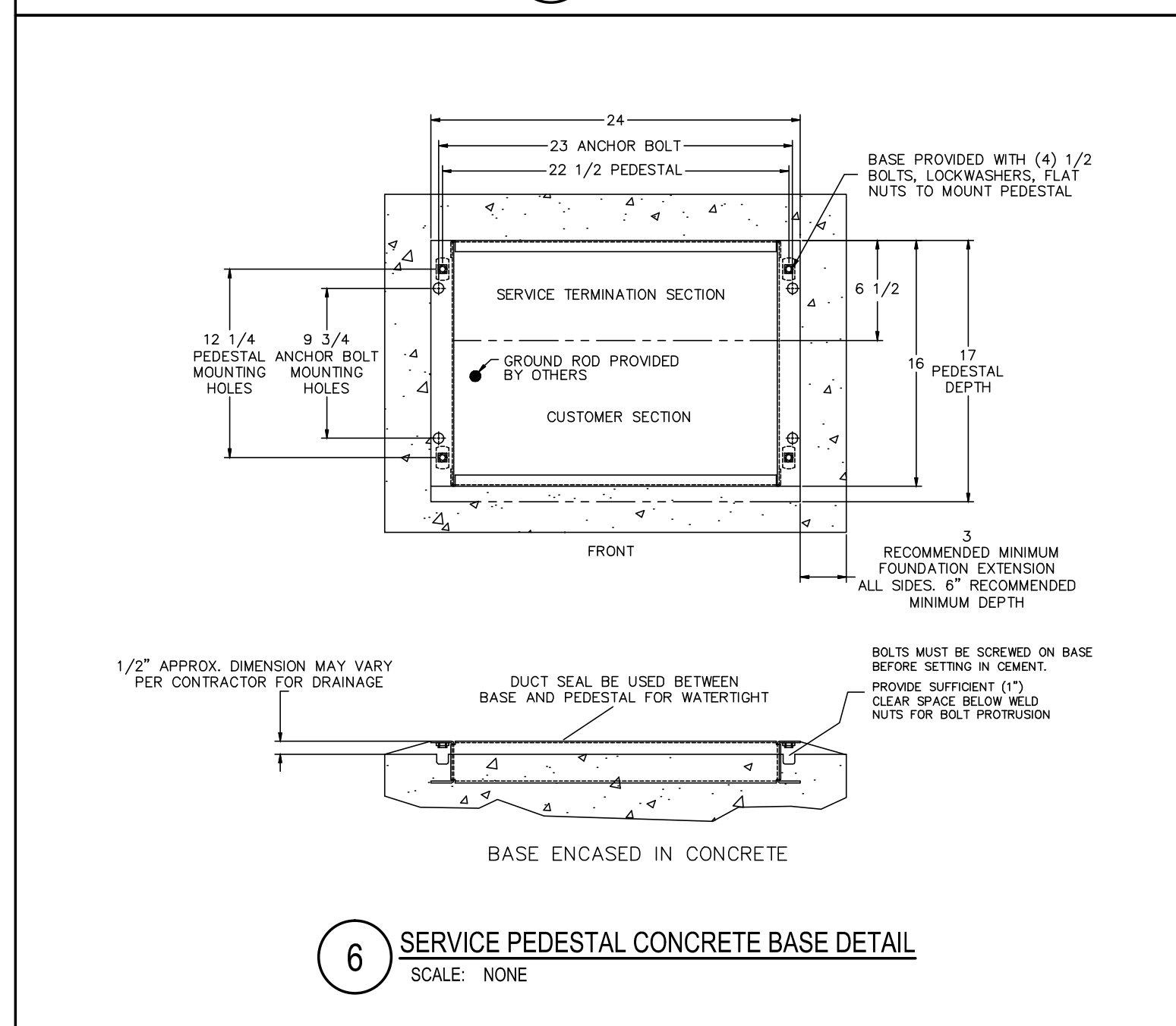
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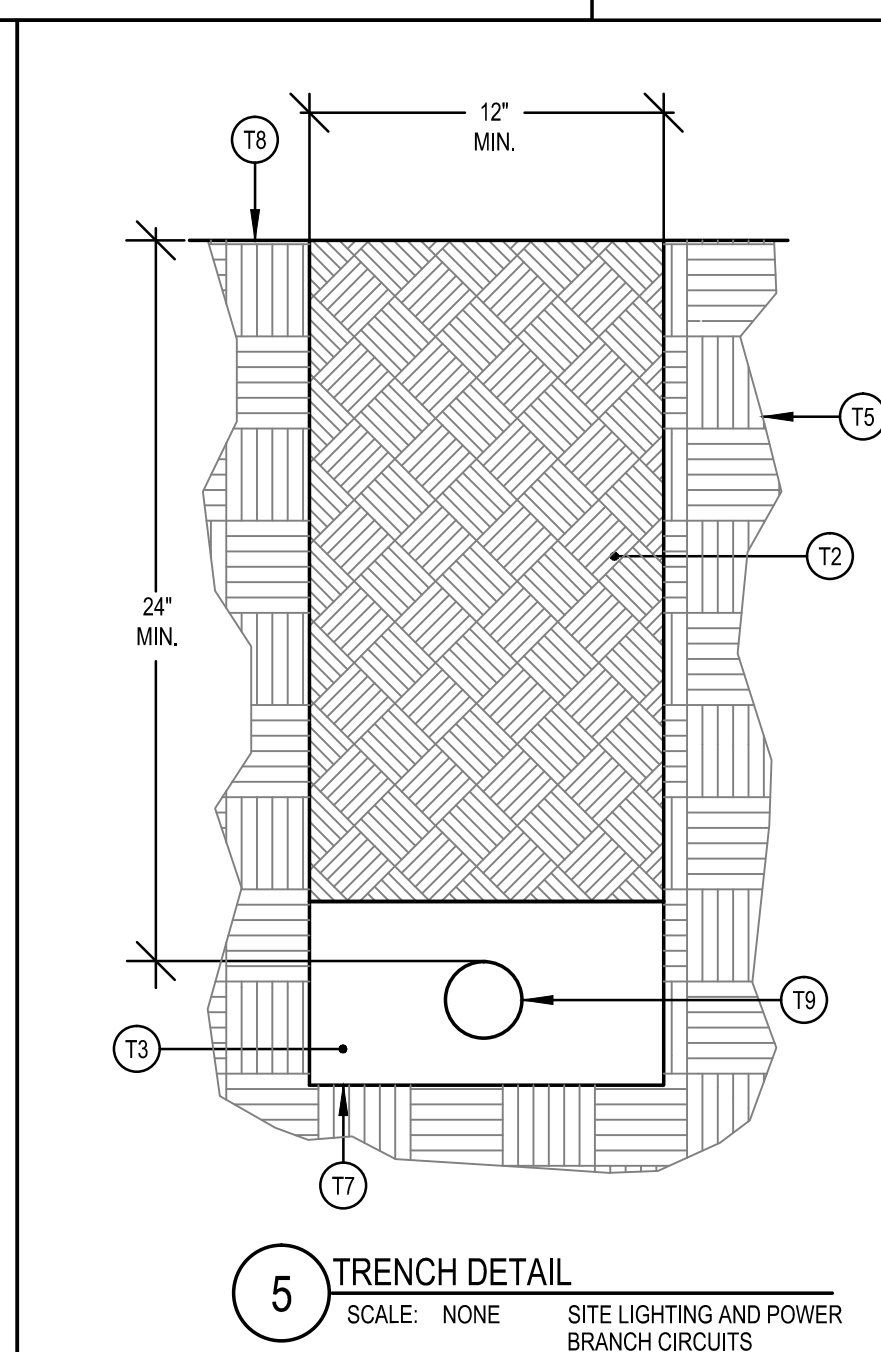
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PROFESSIONAL SEAL:

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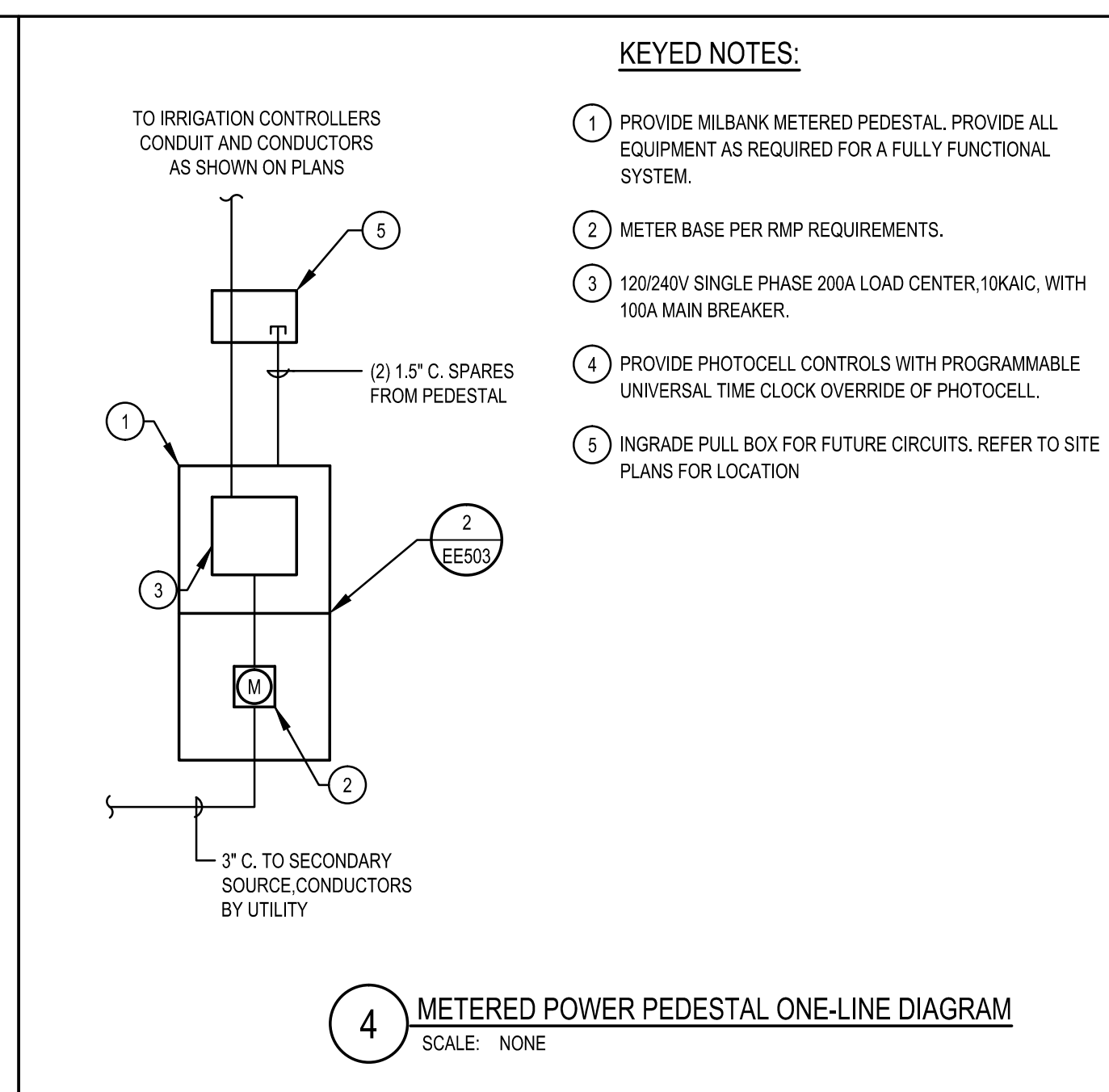


6 SERVICE PEDESTAL CONCRETE BASE DETAIL
SCALE: NONE

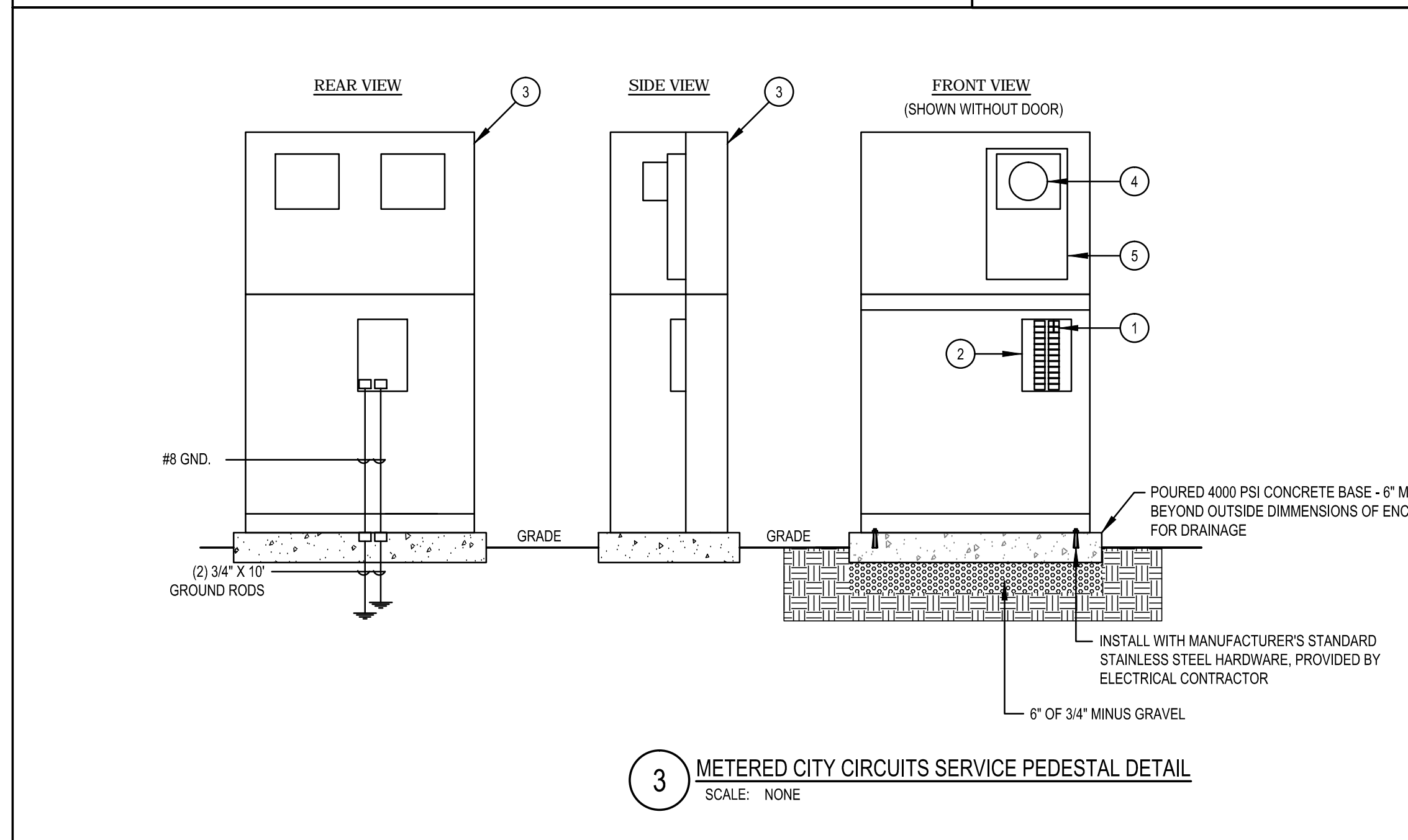


5 TRENCH DETAIL
SCALE: NONE
SITE LIGHTING AND POWER BRANCH CIRCUITS

- #### TRENCHING KEYED NOTES:
- MARKER TAPE WITH TRACER WIRE LABELED, "CAUTION BURIED ELECTRIC CONDUITS BELOW" DIRECTLY OVER POWER CONDUITS 6" MINIMUM BELOW GRADE.
 - CLEAN BACKFILL CONTAINING NO ROCKS LARGER THAN 4" DIA.
 - BACKFILL MATERIAL WITHIN 4" TO 6" OF CONDUIT SHALL PASS THROUGH A 3/4" SIEVE FRAME OR SAND WITHOUT ANY SHARP OR FOREIGN OBJECTS.
 - ALL CONDUITS SHOWN SHALL BE SCHEDULE 40 PVC; SEE ES101 AND ONE-LINE DIAGRAMS OR SIZES.
 - UNDISTURBED EARTH.
 - MARKER TAPE WITH TRACER WIRE LABELED, "CAUTION BURIED DATA/COMMUNICATION CONDUIT BELOW" DIRECTLY OVER DATA/COMM CONDUITS.
 - TRENCHES SHALL BE A UNIFORM DEPTH FOR ENTIRE LENGTH OF TRENCH SO CONDUITS CAN SIT FLAT (HORIZONTAL) WITH THE GROUND.
 - FINISHED GRADE.
 - 1-1/2" CONDUIT.
- #### TRENCHING GENERAL NOTES:
- PROVIDE PULL 1/4" NYLON ROPES IN ALL CONDUITS.
 - IN JOINT USE TRENCHES, HORIZONTAL AND VERTICAL SEPARATION BETWEEN CONDUIT SHALL BE MAINTAINED BY INSTALLING HIGH IMPACT SPACERS WITH HORIZONTAL INTERVALS OF EIGHT FEET.
 - ALL MARKER TAPE SHALL CONTAIN #10 TRACER WIRE.
 - REFER TO THE ROCKY MOUNTAIN POWER SIX STATE ESR FOR ADDITIONAL INFORMATION.
 - VERIFY ALL REQUIREMENTS WITH ROCKY MOUNTAIN POWER, CENTURYLINK, AND COMCAST PRIOR TO TRENCHING.

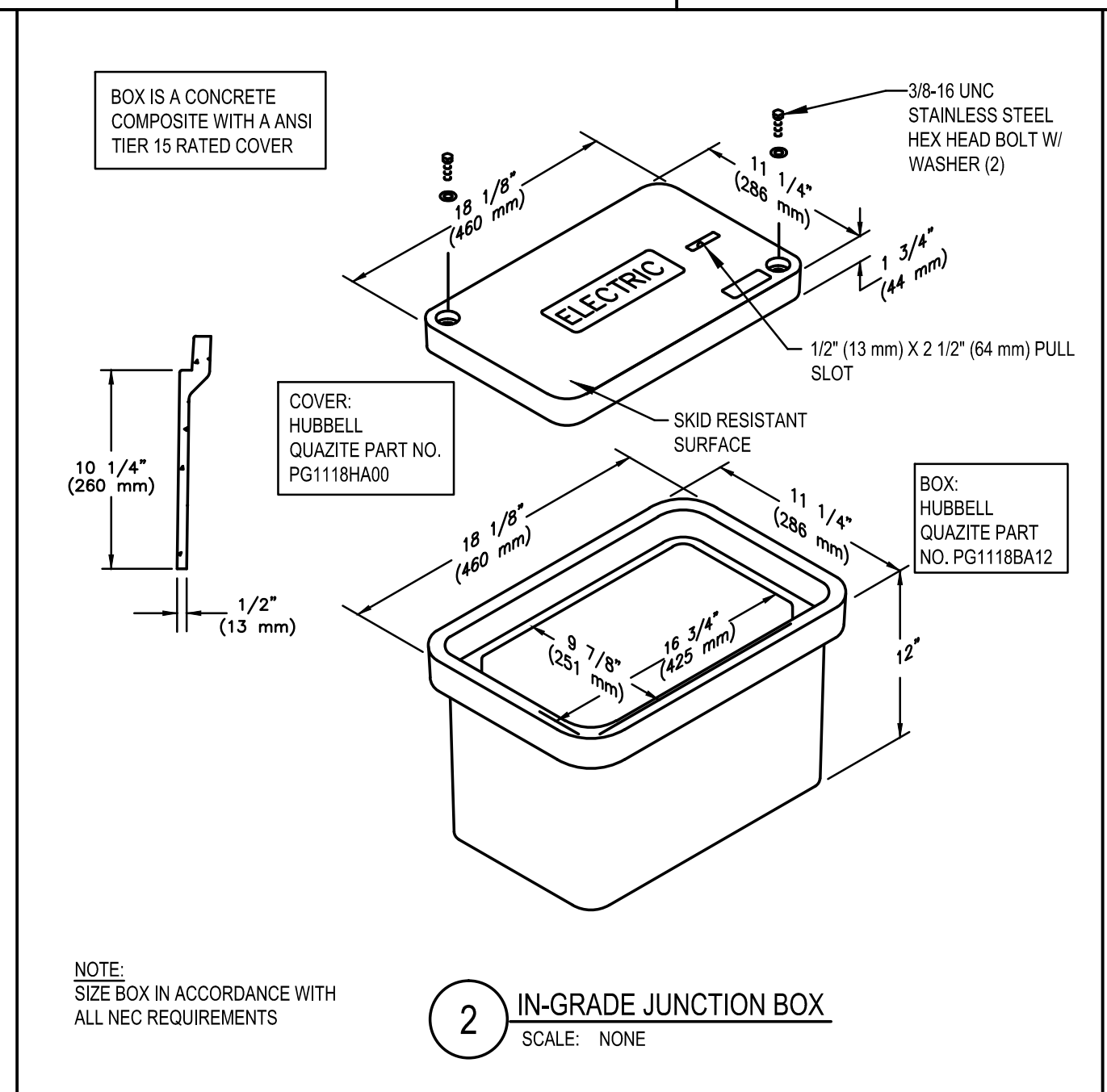


4 METERED POWER PEDESTAL ONE-LINE DIAGRAM
SCALE: NONE

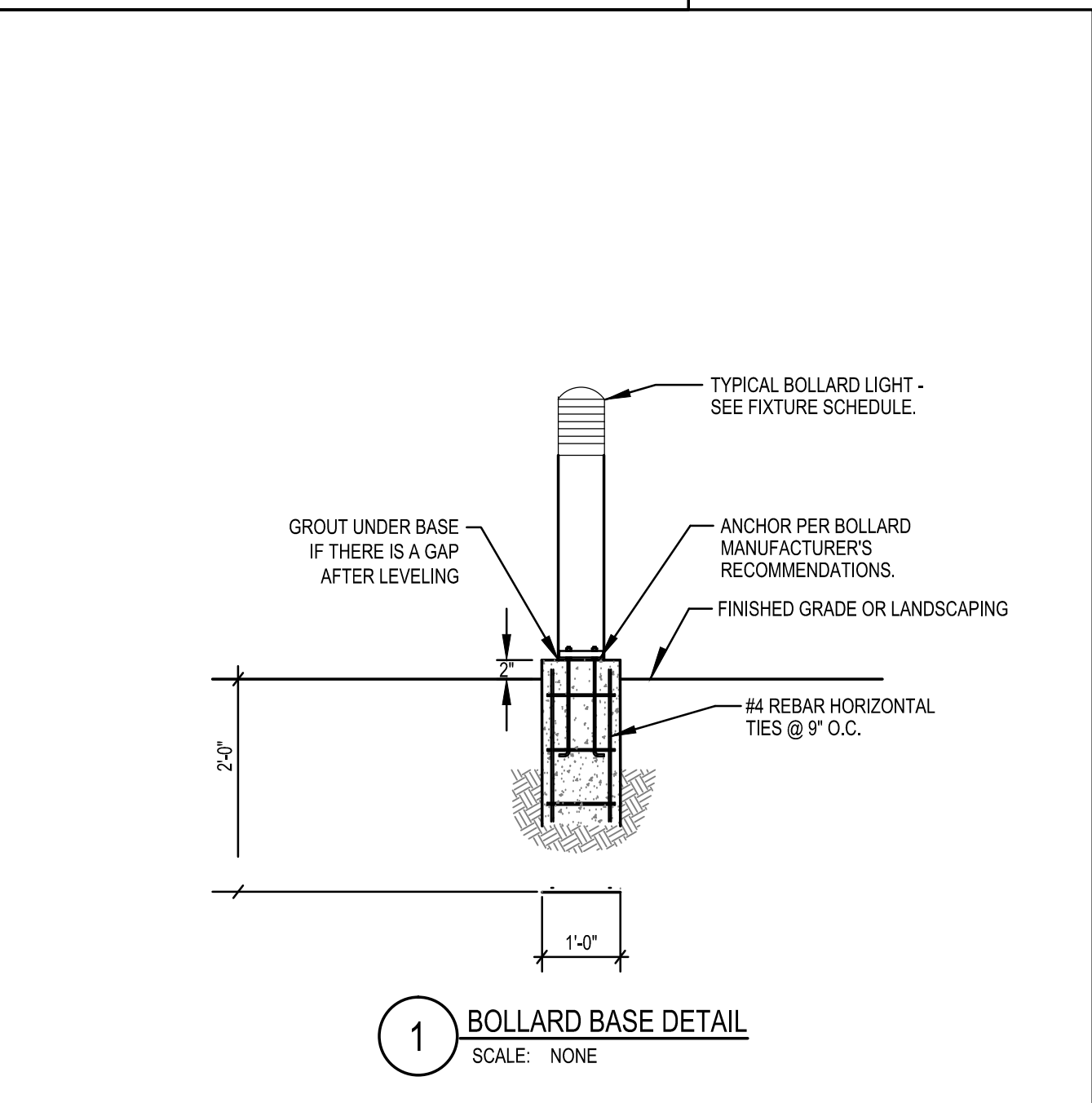


3 METERED CITY CIRCUITS SERVICE PEDESTAL DETAIL
SCALE: NONE

- #### KEYED NOTES:
- 100 AMP 2-POLE MAIN BREAKER.
 - 120/240 VOLT SINGLE PHASE LOAD CENTER. SEE SCHEDULES FOR BRANCH BREAKER SIZES.
 - PROVIDE MILBANK "B" STYLE 24" METERED PEDESTAL, OR RMP APPROVED EQUIVALENT. PEDESTAL AND HARDWARE SHALL BE STAINLESS STEEL.
 - 200A METER WITH CLEAR WINDOW.
 - METER SOCKET WITH TEST BLOCKS PER ALL ROCKY MOUNTAIN POWER REQUIREMENTS.



2 IN-GRADE JUNCTION BOX
SCALE: NONE



1 BOLLARD BASE DETAIL
SCALE: NONE

PROJECT IDENTIFICATION:
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SHEET TITLE:
ELECTRICAL DETAILS

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