

BRACKENRIDGE PARK LAMBERT BEACH

A PROJECT OF
THE CITY OF SAN ANTONIO
100 W. Houston Street
San Antonio, Texas 78205

ANTIQUITIES AND ADVISORY BOARD MEETING SUBMITTAL
10 MARCH 2023

Landscape Architect

swa

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77008-3342
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Consultants

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SAN ANTONIO, TX 78215

SEVENTH GENERATION DESIGN

HISTORIC ARCHITECT
933 NORTH FLORES ST., SUITE B
SAN ANTONIO, TX 78212

WORKSHOP

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203 E. JONES AVE., SUITE 104
SAN ANTONIO, TX 78215

LUNDY & FRANKE

STRUCTURAL ENGINEER
549 HEIMER RD.
SAN ANTONIO, TX 78232

INTELLIGENT ENGINEERING SERVICES

CIVIL ENGINEER
1045 CENTRAL PKWY., NORTH, SUITE 200, SAN ANTONIO,
TX 78232

TRUE NORTH CONSULTING GROUP

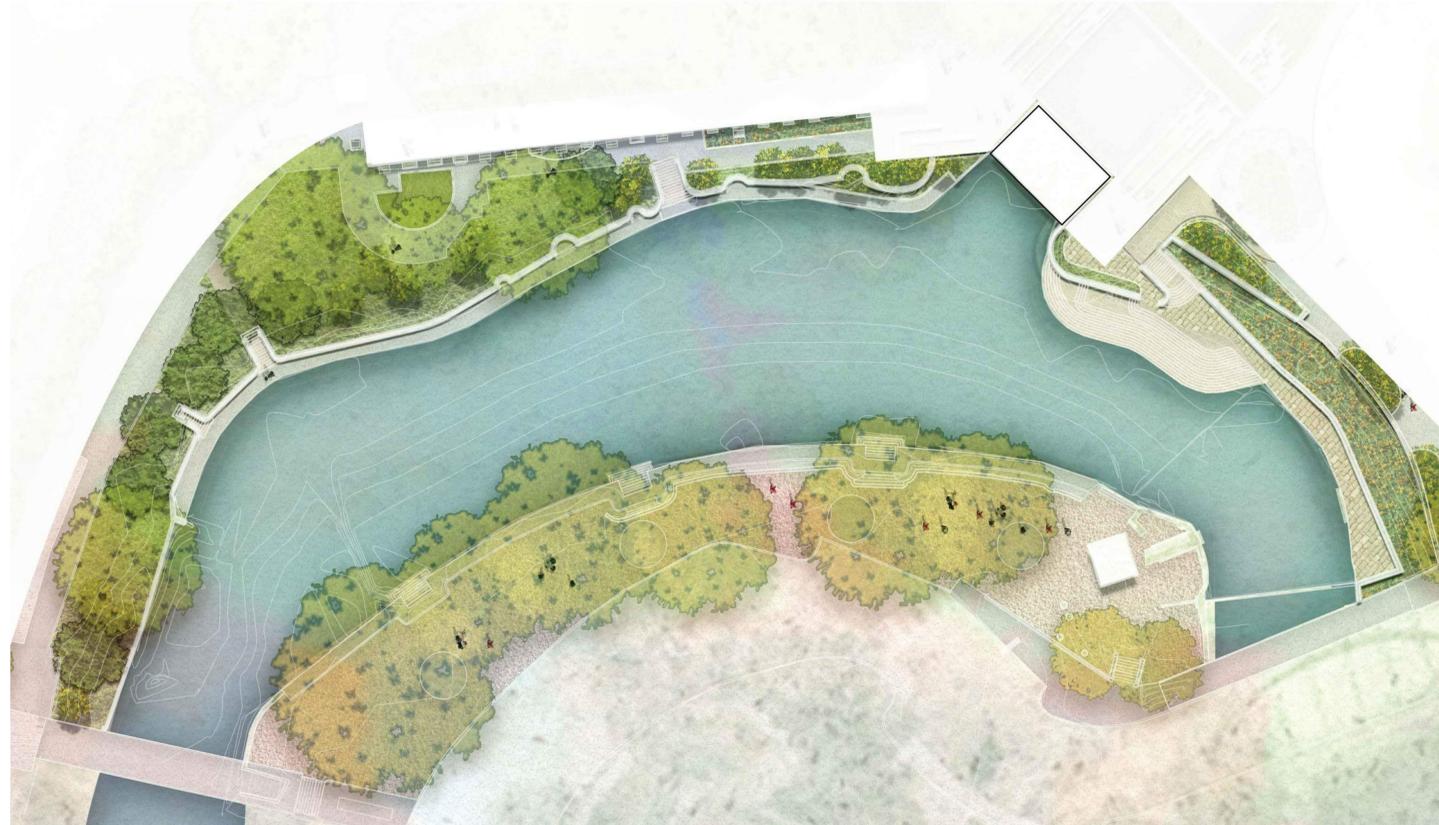
IT AND COMMUNICATIONS
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AUSTIN TX, 78729

CNG ENGINEERING

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1917 N. NEW BRAUNFELS AVE., SUITE 201,
SAN ANTONIO TX, 78208

WGI

HYDROLOGY
5710 W HAUSMAN RD.
SAN ANTONIO, TX 78249



Stamp



Revisions

- 1 . . .
- 2 . . .
- 3 . . .
- 4 . . .
- 5 . . .

Date

10 MARCH 2023

Phase

ISSUE FOR THE PERMIT: ADDENDUM 01

Job Number

CNG8701

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BRACKENRIDGE PARK

SAN ANTONIO, TX

CLIENT:
CITY OF SAN ANTONIO
PUBLIC WORKS DEPARTMENT (TCI)
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- 3 . . .
- 4 . . .
- 5 . . .

Date

11 JANUARY 2023

Phase

95% CONSTRUCTION DOCUMENTS

Job Number

CN05701

Scale

0 10' 20'
1" = 20'

North



Drawing Title

SHEET INDEX

Drawing Number

GO.01

| SHEET INDEX | |
|--------------|---|
| Sheet Number | Sheet Title |
| G0.00 | COVER |
| G0.01 | SHEET INDEX |
| C1.01 | OVERALL EXISTING CONDITIONS PLAN |
| C1.01 | EXISTING CONDITIONS PLAN AT LAMBERT BEACH |
| C1.41 | GRADING PLAN AT LAMBERT BEACH |
| C1.51 | UTILITY PLAN AT LAMBERT BEACH |
| C4.41 | ENLARGED GRADING PLAN AT LAMBERT BEACH |
| C5.10 | EROSION AND SEDIMENT CONTROL |
| C5.30 | SITE DETAILS |
| C6.01 | LIFT STATION AND PIPING LAYOUT |
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| L0.02 | GENERAL CONSTRUCTION NOTES |
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| L6.01 | PLANTING DETAILS |
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| S2.01 | FOUNDATION UNDERPINNING PLAN AND SECTIONS |
| S3.00 | SECTIONS AND DETAILS |
| S3.01 | SECTIONS |
| S3.02 | SECTIONS |
| S4.00 | PHOTO SURVEY & KEYNOTES |
| S4.01 | PHOTO SURVEY AND KEYNOTES |
| S4.02 | PHOTO SURVEY & KEYNOTES |
| S4.03 | PHOTO SURVEY & KEYNOTES |
| S4.04 | PHOTO SURVEY & KEYNOTES |
| S4.05 | PHOTO SURVEY AND KEYNOTES |
| S4.06 | PHOTO SURVEY AND KEYNOTES |

GENERAL NOTES:

- FOR EXISTING UNDERGROUND UTILITIES REFER TO CIVIL ENGINEER'S PLAN.
- VERIFY SITE INFORMATION, INCLUDING PROPERTY LINES, EASEMENTS, BUILDINGS, ROADWAY CURB AND GUTTERS, UTILITIES AND OTHER INFORMATION AFFECTING THE SCOPE OF WORK INCLUDED ON THESE DRAWINGS. MORE SPECIFIC UTILITY INFORMATION IS INDICATED ON THE CIVIL DRAWINGS.
- CONTRACTOR SHALL CONTACT THE OWNER AND THE LANDSCAPE ARCHITECT FOR DIRECTION ON HOW TO PROCEED IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE DRAWINGS.
- EXCAVATION IN THE VICINITY OF UTILITIES SHALL BE UNDERTAKEN WITH CARE. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SITE UTILITIES PRIOR TO BEGINNING EXCAVATION. ANY DAMAGE TO UTILITIES THAT ARE TO REMAIN CAUSED BY ANY PERSON, VEHICLE, EQUIPMENT, OR TOOL RELATED TO THE EXECUTION OF THE CONTRACT SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
- BASE INFORMATION INCLUDING THE LOCATION OF PROPERTY LINES, EASEMENTS, BUILDINGS, ROADS AND CURBS HAVE BEEN TAKEN FROM THE CIVIL ENGINEER'S DRAWINGS. FOR ADDITIONAL INFORMATION REFER TO CIVIL ENGINEERING DRAWINGS.
- THE CONTRACTOR SHALL NOTIFY LOCAL AUTHORITIES AND THE GENERAL CONTRACTOR FOR LOCATION OF EXISTING UNDERGROUND UTILITIES. POT HOLE AS NECESSARY TO CONFIRM LOCATIONS PRIOR TO EXCAVATION.

PLANTING NOTES:

- REFER TO L6 SERIES FOR PLANTING NOTES AND DETAILS

SITE/LANDSCAPE SLEEVING NOTES:

- ALL SITE/LANDSCAPE SLEEVE LOCATIONS AND SIZES SHALL BE NOTED WITHIN THESE DOCUMENTS FOR FOUNTAIN AND DRAINAGE SCOPE OF WORK ONLY. ADDITIONAL MISCELLANEOUS FUTURE USE SLEEVES ARE PROVIDED IN SOME LOCATIONS. SLEEVES DO NOT INCLUDE SECURITY, ARCHITECTURAL, OR CIVIL OR SITE LIGHTING SCOPE.
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL OTHER CONSULTANTS AND SUB-CONTRACTOR SLEEVING REQUIREMENTS AND PLACE SUCH SLEEVES PRIOR TO HARDSCAPE INSTALLATION.

GRADING AND EXCAVATION NOTES:

- ALL GRADING SHALL PROVIDE FOR NATURAL RUNOFF OF WATER WITHOUT LOW SPOTS OR POCKETS. FLOW LINES SHALL BE ACCURATELY SET AND SHALL NOT BE LESS THAN 0.5% GRADIENT UNLESS OTHERWISE NOTED. CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE DRAINAGE IN ALL AREAS.
- REFER TO THE GENERAL CONDITIONS AND THE TECHNICAL SPECIFICATIONS SECTIONS FOR THE PLACEMENT, COMPACTION, GRADING AND TESTING OF ALL FILL MATERIAL.
- REFER TO CIVIL DOCUMENTS FOR ALL SITE EROSION CONTROL.
- THE DEBRIS CREATED BY GRADING AND EXCAVATION OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF AWAY FROM THE JOB SITE.
- CONTRACTORS SHALL TAKE CARE IN MINIMIZING THE DISTURBANCE TO THE EXISTING TREE TRUNKS AND ROOT SYSTEMS. ALL FINISH GRADING UNDER THE EXISTING TREES SHALL BE COMPLETED BY USING HAND TOOLS. NO LARGE EQUIPMENT OR ANY EQUIPMENT WITH TRACKS SHALL BE ALLOWED TO WORK OR DRIVE UNDER THE DRIP LINE OF THE EXISTING TREES, EXCEPT FOR THOSE AREAS WHERE PAVING IS TO BE PLACED.
- CONTRACTOR SHALL TAKE CARE IN MINIMIZING THE DISTURBANCE TO SOIL WITHIN 15 FEET OF HISTORICAL STRUCTURES UNLESS EXPLICITLY DIRECTED TO DO SO BY THE DESIGN. ALL FINISHED GRADING IN AREAS WITHIN 15 FEET OF HISTORICAL STRUCTURES TO BE COMPLETED USING HAND TOOLS. NO LARGE EQUIPMENT OR ANY EQUIPMENT WITH TRACKS SHALL BE ALLOWED TO WORK OR DRIVE WITHIN 15 FEET OF THE STRUCTURE.
- HAND EXCAVATE AND HAND COMPACT AREAS UNDER DRIPLINES OF EXISTING TREES.
- ALL EXCAVATION WITHIN THE DRIPLINES OF EXISTING TREES SHALL BE RADIAL TO THE TRUNK.
- REFER TO CIVIL DRAWINGS FOR CONNECTIONS TO DRAINS AND CONTINUATION TO DISCHARGE PIPING.
- EXISTING UTILITY STRUCTURES AND LIDS ARE TO BE ADJUSTED TO MATCH PROPOSED FINISHED GRADE (UNLESS OTHERWISE NOTED).
- AFTER PLACEMENT AND ADJUSTMENT OF DRAIN BODIES TO PROPOSED FINISH GRADES, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO COORDINATE AND APPROVE FINAL GRADES IN ALL AREAS.
- GRADING ON TRAILS TO BE CONSISTENT AND TO TRANSITION WITH EXISTING GRADES. TRAIL SECTION SHALL BE CROWNED IN FLAT AREAS AND SLOPED AT 2% TO THE DOWNHILL SIDE.
- THE CONTRACTOR SHALL REQUEST A REVIEW FOR INSPECTION OF FINAL IN PLACE GRADING A MINIMUM OF 48 HOURS IN ADVANCE OF PERFORMING ANY WORK UNLESS OTHERWISE NOTED ON THIS SHEET. FINAL GRADING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD AND PRIOR TO SURFACE CONSTRUCTION AND PLANTING. CONTRACTOR IS RESPONSIBLE FOR POSITIVE FLOW OF DRAINAGE.
- REFER TO PLANTING NOTES FOR GRADING REQUIREMENTS FOR AREAS ADJACENT TO PAVEMENTS.

LAYOUT/DIMENSIONAL CONTROL NOTES:

- THE CONTRACTOR SHALL LAYOUT AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR DIRECTION AND RESOLUTION OF DISCREPANCIES PRIOR TO PROCEEDING.
- FOR DIMENSIONS OF BUILDING, PARKING STRUCTURE AND OTHER RELATED NON-LANDSCAPE WORK, REFER TO THE ARCHITECTURAL OR CIVIL DRAWINGS.
- VERIFY LOCATIONS OF ALL SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT THE LANDSCAPE ARCHITECT FOR INSTRUCTION PRIOR TO COMMENCING WORK.
- ALL DIMENSIONS ARE TAKEN PERPENDICULAR TO WALL, CURB, P.O.B., OR CENTERLINE UNLESS OTHERWISE NOTED.
- EDGES OF IRREGULAR PAVING ARE LOCATED BY COORDINATES AND ARE GENERAL LOCATIONS. CONTRACTOR SHALL STAKE POINTS IN FIELD. STAKED EDGES SHALL BE REVIEWED BY LANDSCAPE ARCHITECT FOR FINAL LAYOUT APPROVAL AND SETTING AND MAY REQUIRE ADJUSTMENTS IN FIELD FOR FINAL PLACEMENT. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- FOR HANDICAPPED STANDARDS, VERIFY COMPLIANCE WITH LATEST EDITION OF ADA AND LOCAL AND STATE HANDICAP STANDARDS PRIOR TO CONSTRUCTION. WHERE FIELD MODIFICATIONS ARE REQUIRED FOR COMPLIANCE, CONSTRUCTION CHANGES MAY BE APPLIED INCLUDING DIFFERENT GRADES AND LAYOUT THAN THOSE NOTED HEREIN.
- SURFACES SHALL BE ADA COMPLIANT ALONG ACCESS AND EGRESS. FLAGSTONE SHALL HAVE NO ADJACENT SURFACE IRREGULARITIES GREATER THAN 1/4" IN ANY PIECE OR BETWEEN ADJACENT PIECES
- WHERE DIMENSIONS ARE CALLED AS "EQUAL", ALL REFERENCED ITEMS SHALL BE SPACED EQUALLY, MEASURED TO THEIR CENTER LINES OR OTHER NOTED REFERENCES.
- INSTALL ALL INTERSECTING ELEMENTS AT 90 DEGREES TO EACH OTHER UNLESS OTHERWISE NOTED.

EXPANSION JOINT NOTES:

- PROVIDE EXPANSION JOINTS IN ALL CASES WHERE CONCRETE FLATWORK MEETS VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDING OR WHERE CONCRETE ABUTS UTILITY VAULTS OR BOXES. REQUIRED EXPANSION JOINTS AT ALL VAULTS AND VERTICAL STRUCTURES MAY NOT BE SHOWN ON THESE DRAWINGS BUT ARE A CONSTRUCTION REQUIREMENT.

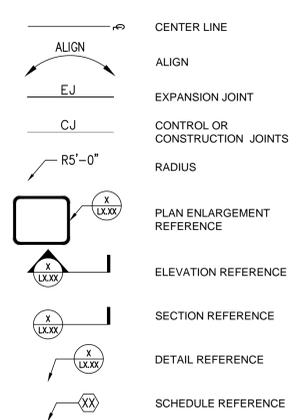
ABBREVIATIONS:

| | |
|--------|-----------------------|
| APPROX | APPROXIMATE |
| ADJ | ADJACENT |
| BC | BOTTOM OF CURB |
| BLDG | BUILDING |
| BR | BOTTOM OF RAMP |
| BS | BOTTOM OF STEP |
| BL | BUILDING LINE |
| BOC | BACK OF CURB |
| BW | BOTTOM OF WALL |
| CJ | CONTROL JOINT |
| CMU | CONCRETE MASONRY UNIT |
| COH | CITY OF HOUSTON |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| CL | CENTERLINE |
| CLR | CLEAR / CLEARANCE |
| CRS | COURSE |
| DIA | DIAMETER |
| DWG | DRAWINGS |
| GALV | GALVANIZED |

ABBREVIATIONS (CONT'D):

| | |
|-------|-----------------------------|
| EJ | EXPANSION JOINT |
| ELEV | ELEVATION |
| EP | EDGE OF PAVEMENT |
| EQ | EQUAL |
| ESMT | EASEMENT |
| EXIST | EXISTING |
| FF | FINISHED FLOOR |
| FL | FLOWLINE |
| FTG | FOOTING |
| FG | FINISHED GRADE |
| FOC | FACE OF CURB |
| FIN | FINISH |
| G | GUTTER |
| HT | HEIGHT |
| HP | HIGH POINT |
| INT | INTERIOR |
| LF | LINEAR FEET |
| LP | LOW POINT |
| LOW | LIMIT OF WORK |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| NIC | NOT IN CONTRACT |
| OC | ON CENTER |
| OPP | OPPOSITE |
| PA | PLANTING AREA |
| PERP | PERPENDICULAR |
| PL | PROPERTY LINE |
| POB | POINT OF BEGINNING |
| PROP | PROPOSED |
| PVMT | PAVEMENT |
| PT | POINT |
| R | RADIUS |
| RE | REFER TO |
| REF | REFERENCE |
| REINF | REINFORCED |
| REQ | REQUIRED |
| ROW | RIGHT OF WAY |
| SCH | SCHEDULE |
| SSEJ | SUB-SURFACE EXPANSION JOINT |
| SEC | SECTION |
| SF | SQUARE FEET |
| SHT | SHEET |
| SIM | SIMILAR |
| SO | SQUARE |
| SQFT | SQUARE FEET |
| STL | STEEL |
| SS | STAINLESS STEEL |
| SWE | STATIC WATER ELEVATION |
| TAN | TANGENT |
| TO | TOP OF CURB |
| THK | THICK / THICKNESS |
| TOB | TOP OF BANK |
| TOS | TOE OF SLOPE |
| TP | TOP OF PAVEMENT |
| TR | TOP OF RAMP |
| TS | TOP OF STEP |
| TW | TOP OF WALL |
| TY | TYPE |
| TYP | TYPICAL |
| UTL | UTILITY |
| WL | WATER LEVEL |

LAYOUT & MATERIALS LEGEND:



VICINITY MAP:



SITE: BRACKENRIDGE PARK, SAN ANTONIO, TX APPROXIMATE LIMIT OF WORK LINE IN LAYOUT

BRACKENRIDGE PARK

SAN ANTONIO, TX

CLIENT: CITY OF SAN ANTONIO
PUBLIC WORKS DEPARTMENT (TCO)
PO BOX 839966, SAN ANTONIO TX 78283-3966

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SAN ANTONIO TX, 78208

WGI ENGINEERING

HYDROLOGY
5710 W HAUSMAN RD,
SAN ANTONIO, TX 78249

Stamp



Revisions

-
-
-
-
-

Date
11 JANUARY 2023
Phase
95% CONSTRUCTION DOCUMENTS
Job Number
CN05701

Scale North

Drawing Title

GENERAL CONSTRUCTION NOTES

Drawing Number

L0.02

BRACKENRIDGE PARK

SAN ANTONIO, TX

CLIENT:
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PUBLIC WORKS DEPARTMENT (T01)
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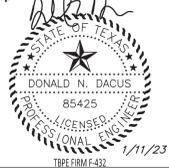
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Revisions

- 1
- 2
- 3
- 4
- 5

Date

11 JANUARY 2023

Phase

95% CONSTRUCTION DOCUMENTS

Job Number

CN05701

Scale

North

AS SHOWN

Drawing Title

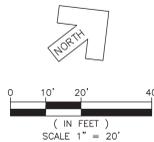
EXISTING CONDITIONS PLAN
at LAMBERT BEACH

Drawing Number

C1.01

INTELLIGENT
ENGINEERING
SERVICES
ENGINEERING COMMUNITIES FROM THE GROUND UP
300 CENTRAL PARKWAY NORTH, SUITE 200 SAN ANTONIO, TEXAS 78212
210.434.0000
85 JOB NO. 2180721 10/6 FORM 4-02

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LEGEND

| | |
|-------|--|
| --- | EXISTING PROPERTY LINE |
| ○-○-○ | EXISTING CHAIN LINK FENCE |
| □-□-□ | EXISTING METAL FENCE |
| /// | EXISTING WOOD FENCE |
| --- | EXISTING WATER LINE |
| --- | EXISTING SANITARY SEWER LINE |
| --- | EXISTING STORM DRAIN LINE |
| --- | EXISTING GAS LINE |
| --- | EXISTING UGE (UNDERGROUND ELECTRIC) LINE |
| --- | EXISTING OHEC (OVERHEAD ELEC/COMM) LINE |
| --- | EXISTING OHE (OVERHEAD ELECTRIC) LINE |
| ○ | EXISTING UTILITY POLE |
| ← | EXISTING GUY WIRE |
| ⊙ | EXISTING COMMUNICATIONS MANHOLE |
| ⊙ | EXISTING TELEPHONE MANHOLE |
| ⊙ | EXISTING ELECTRIC MANHOLE |
| ⊙ | EXISTING MANHOLE |
| ⊙ | EXISTING STORM DRAIN MANHOLE |
| ⊙ | EXISTING GRATE INLET |
| ⊙ | EXISTING SANITARY SEWER MANHOLE |
| ⊙ | EXISTING SANITARY CLEANOUT |
| ⊙ | EXISTING FIRE HYDRANT |
| ⊙ | EXISTING FIRE DEPARTMENT CONNECTION |
| ⊙ | EXISTING POST INDICATOR VALVE |
| ⊙ | EXISTING WATER VALVE |
| ⊙ | EXISTING WATER METER |
| ⊙ | EXISTING HOSE BIB |
| ⊙ | EXISTING IRRIGATION VALVE |
| ⊙ | EXISTING DOWNSPOUT |
| ⊙ | EXISTING GAS VALVE |
| ⊙ | EXISTING GAS METER |
| ⊙ | EXISTING ELECTRICAL BOX |
| ⊙ | EXISTING ELECTRIC METER |
| ⊙ | EXISTING ELECTRICAL OUTLET |
| ⊙ | EXISTING COMMUNICATIONS BOX |
| ⊙ | EXISTING AIR CONDITIONING UNIT |
| ⊙ | EXISTING GROUND LIGHT |
| ⊙ | EXISTING LIGHT POLE |
| ⊙ | EXISTING SIGN |
| ⊙ | EXISTING VERTICAL PIPE |
| ⊙ | EXISTING BOLLARD |
| ⊙ | EXISTING CONTROL MARK |
| ⊙ | IRON ROD FOUND (IRF) |
| ⊙ | EXISTING TREE |
| ⊙ | EXISTING CONCRETE FLATWORK |
| ⊙ | EXISTING CONCRETE |
| ⊙ | EXISTING PAVERS |
| ⊙ | EXISTING ASPHALT PAVEMENT |
| ⊙ | EXISTING BUILDING OUTLINE |
| ⊙ | EXISTING ACCESSIBLE PAVEMENT MARKING |
| ⊙ | EXISTING RETAINING WALL |

| PROJECT CONTROL POINTS | | | | |
|------------------------|--------------------------|-------------|------------|-----------|
| CP# | DESCRIPTION | NORTHING | EASTING | ELEVATION |
| CP2 | IR W/ ORANGE VICKERY CAP | 13718664.31 | 2137416.11 | 669.52 |
| CP3 | IR W/ ORANGE VICKERY CAP | 13718763.44 | 2137676.81 | 667.06 |
| CP20 | + ON CONCRETE | 13718784.33 | 2137590.48 | 667.99 |
| CP21 | IR W/ PINK IES CAP | 13718878.88 | 2137707.49 | 678.46 |
| CP26 | IR W/ RED CAP | 13718917.28 | 2137393.23 | 675.05 |
| CP1118 | STAMPED COSA CAP | 13718923.90 | 2137667.26 | 677.91 |

EXISTING UTILITY NOTES:

1. THIS UTILITY PLAN HAS BEEN PREPARED TO THE BEST OF OUR ABILITY USING AVAILABLE DATA ON EXISTING UTILITY INFORMATION. EXISTING UTILITY DATA SHOWN ON THIS LAYOUT WAS OBTAINED FROM A SURVEY OF THE VISIBLE FEATURES AT THE SITE AND PUBLIC RECORD MAPS OBTAINED FROM THE UTILITIES.
2. IT IS ESSENTIAL THAT 48 HOURS PRIOR TO CONSTRUCTION ALL UTILITY COMPANIES BE NOTIFIED TO LOCATE AND TAG THEIR UNDERGROUND FACILITIES PRIOR TO EXCAVATION.

| | |
|---|----------------|
| San Antonio Water System (Water, Sewer & Recycle Water) | (210) 233-2011 |
| COSA Drainage | (210) 207-2800 |
| City Sidewalk and Trenching Division | (210) 821-3240 |
| COSA Traffic Signal Operations | (210) 207-7765 |
| Texas State Wide One Call Locator | (800) 545-6005 |
| CPS Energy | (800) 545-6005 |
| AT&T | (800) 545-6005 |
| Time Warner | (800) 545-6005 |
3. THE CONTRACTOR NEEDS TO ALLOW FOR THE POSSIBILITY OF UNDETECTED UNDERGROUND UTILITIES. ALSO, THE CONTRACTOR MUST ALLOW FOR CHANGES DUE TO UTILITIES BEING IN LOCATIONS DIFFERENT FROM THOSE SHOWN ON THE UTILITY RECORD DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND EXPOSING CONFLICTS PRIOR TO CONSTRUCTION.
4. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO THE CONSTRUCTION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF SAME DURING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS, AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THE PROJECT.
6. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CPS MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

EXISTING CONDITIONS NOTE

TOPOGRAPHICAL INFORMATION SHOWN ON THESE PLANS WAS COLLECTED WITH DATA OBTAINED BY AN ON THE GROUND SURVEY OF VISIBLE SURFACE FEATURES. EXISTING IMPROVEMENTS WITH VISIBLE AND ACCESSIBLE UTILITY INFORMATION ARE SHOWN ON THE DRAWING. THE SURVEY ALSO INCLUDES INFORMATION BASED ON RECORD DOCUMENTS, OWNER PROVIDED INFO, AND PARTIALLY FROM SUBSURFACE UTILITY INVESTIGATIONS. UNDERGROUND UTILITIES SHOWN ARE FROM BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN.



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| 1 | ADDENDUM 01 | 03/10/23 |
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Date

11 JANUARY 2023

Phase

95% CONSTRUCTION DOCUMENTS

Job Number

CN05701

Scale

North

Drawing Title

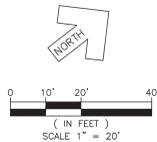
EROSION & SEDIMENT CONTROL PLAN at LAMBERT BEACH

Drawing Number

C1.11

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LEGEND

- TEMPORARY SILT FENCE
- TEMPORARY TRIANGLE DIKE
- TEMPORARY RIVER DIVERSION BERM
- TEMPORARY CONCRETE WASHOUT PIT

KEYNOTES

- TEMPORARY SILT FENCE, SEE DETAIL 1/C5.10
- TEMPORARY TRIANGLE DIKE, SEE DETAIL 2/C5.10
- CONCRETE WASHOUT PIT, SEE DETAIL 3/C5.10

SHEET NOTES:

1. REFER TO SHEET C1.01 EXISTING CONDITIONS PLAN at LAMBERT BEACH FOR NOTES & LEGEND
2. REFER TO SHEET C1.11 EROSION & SEDIMENT CONTROL NOTES & DETAILS

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Phase

95% CONSTRUCTION DOCUMENTS

Job Number

CN05701

Scale

North

Drawing Title

GRADING PLAN
at LAMBERT BEACH

Drawing Number

C1.41

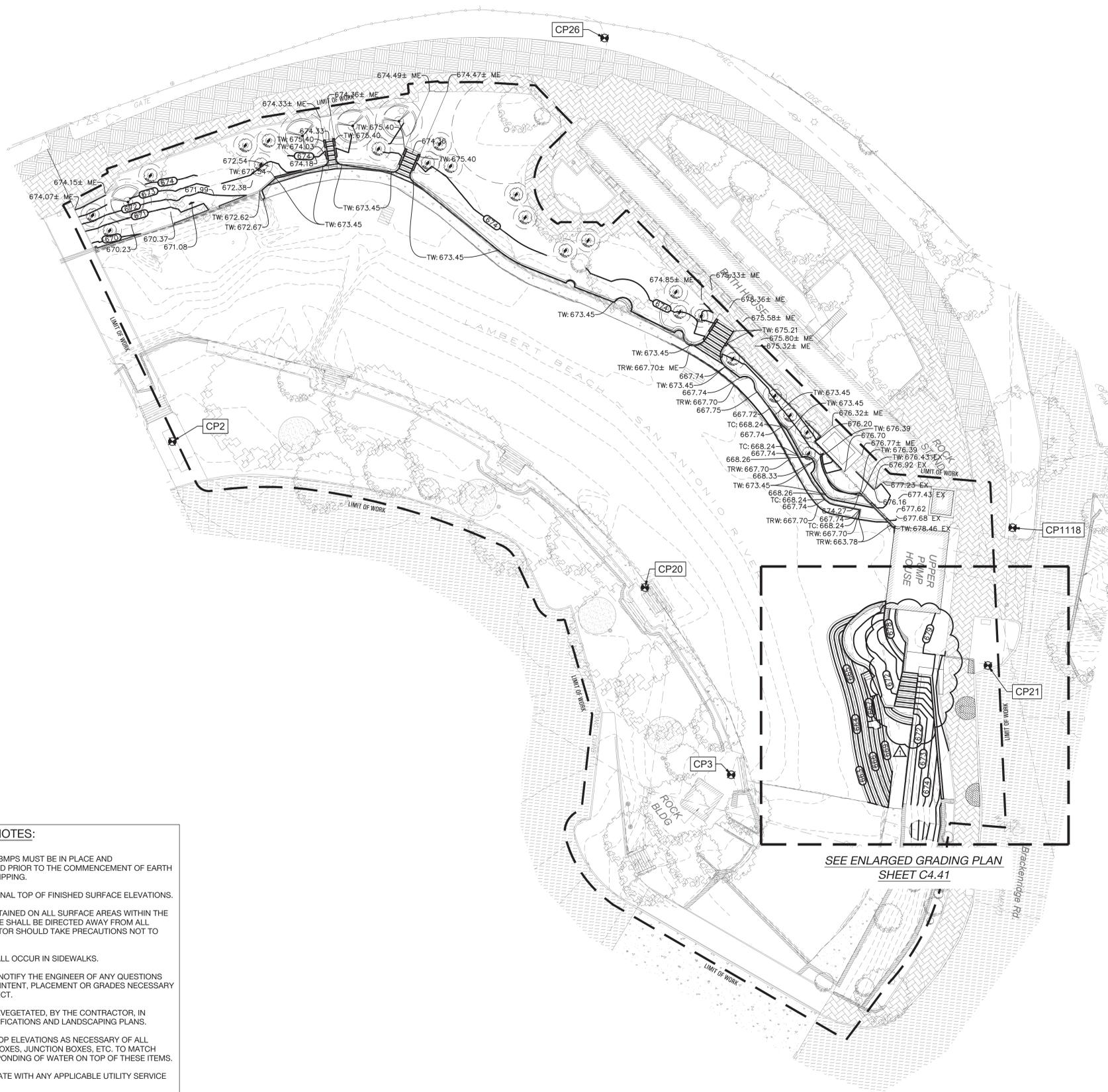
INTELLIGENT ENGINEERING SERVICES
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254.516.0066
85.308 NO. 2180721 10/94 FORM F-402 © 2020 SWA



0 10' 20' 40'
(IN FEET)
SCALE 1" = 20'

LEGEND

| | |
|-------------|---------------------------------|
| | NEW CONTOUR |
| | EXISTING CONTOUR |
| 791.38 | NEW SPOT ELEVATION |
| 791.38± ME | MATCH EXISTING SPOT ELEVATION |
| 532.24 EX | EXISTING SPOT ELEVATION |
| TC: 532.74 | NEW TOP OF CURB ELEVATION |
| TW: 532.24 | NEW TOP OF WALL ELEVATION |
| TRW: 532.24 | NEW TOP OF RIVER WALL ELEVATION |



GRADING AND DRAINAGE NOTES:

- EROSION AND SEDIMENT CONTROL BMPs MUST BE IN PLACE AND CONSTRUCTION SITE NOTICE POSTED PRIOR TO THE COMMENCEMENT OF EARTH MOVING ACTIVITIES, INCLUDING STRIPPING.
- ALL GRADES AND CONTOURS ARE FINAL TOP OF FINISHED SURFACE ELEVATIONS.
- POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE SCOPE OF THIS PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
- NO ABRUPT CHANGE OF GRADE SHALL OCCUR IN SIDEWALKS.
- CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
- ALL DISTURBED AREAS SHALL BE REVEGETATED, BY THE CONTRACTOR, IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND LANDSCAPING PLANS.
- CONTRACTOR SHALL ADJUST THE TOP ELEVATIONS AS NECESSARY OF ALL MANHOLES, VALVE BOXES, METER BOXES, JUNCTION BOXES, ETC. TO MATCH PROPOSED GRADES AND PREVENT PONDING OF WATER ON TOP OF THESE ITEMS.
- THE CONTRACTOR SHALL COORDINATE WITH ANY APPLICABLE UTILITY SERVICE AND INSPECTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EXCAVATION AND/OR DEMOLITION MATERIALS FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND MAINTAINING ALL SIGNS, BARRICADES, AND LIGHTING OR WARNING DEVICE(S) USED/REQUIRED WITH THIS WORK.

SEE ENLARGED GRADING PLAN
SHEET C4.41

SHEET NOTES:

- REFER TO SHEET C1.01 EXISTING CONDITIONS PLAN at LAMBERT BEACH FOR NOTES & LEGEND

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11 JANUARY 2023

Phase

95% CONSTRUCTION DOCUMENTS

Job Number

CN05701

Scale

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Drawing Title

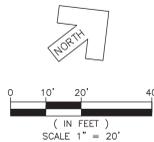
WALL FOUNDATION
DRAIN PIPE PLAN
at LAMBERT BEACH

Drawing Number

C1.51

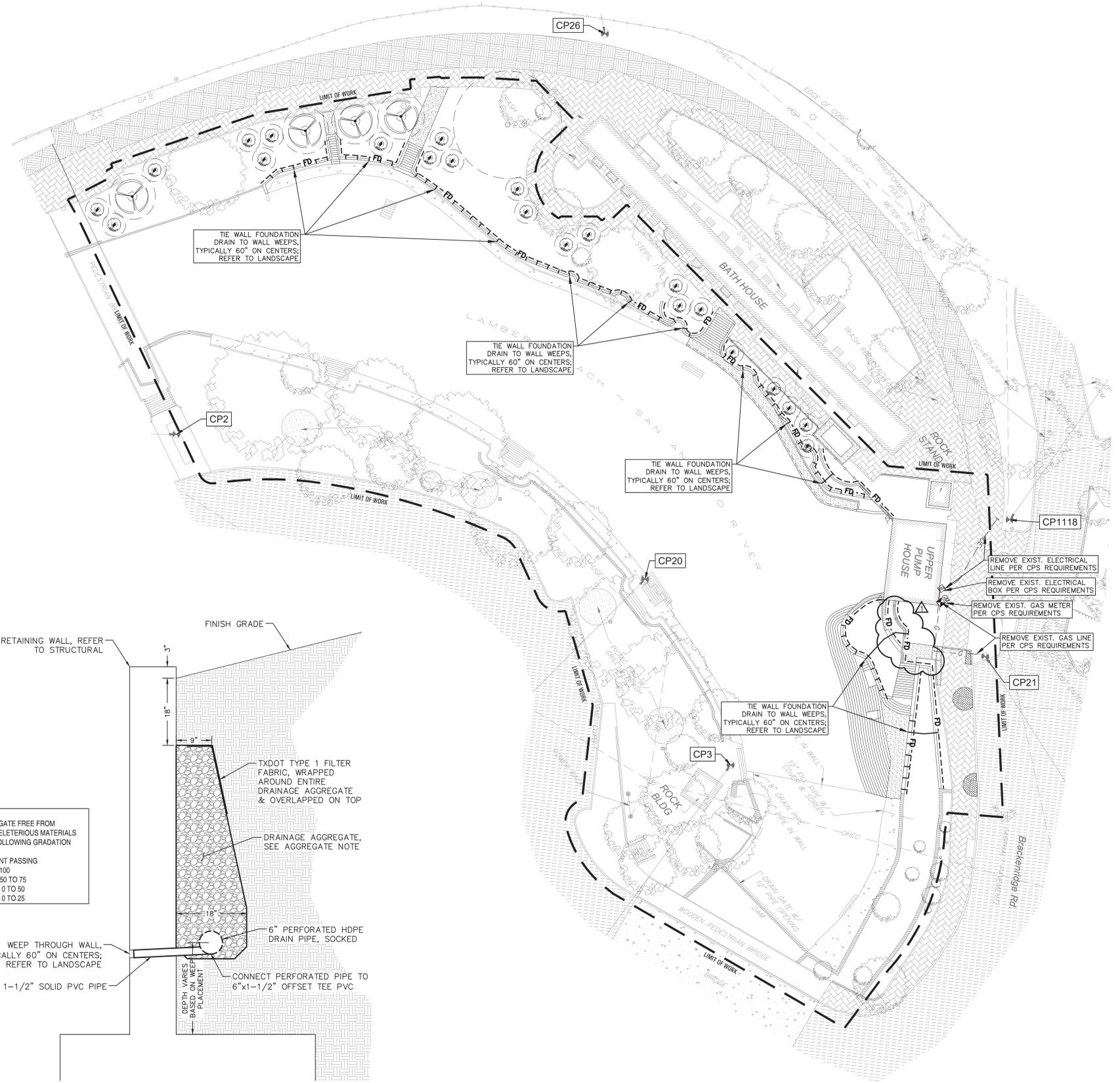
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ENGINEERING
SERVICES
ENGINEERING COMMUNITIES FROM THE GROUND UP
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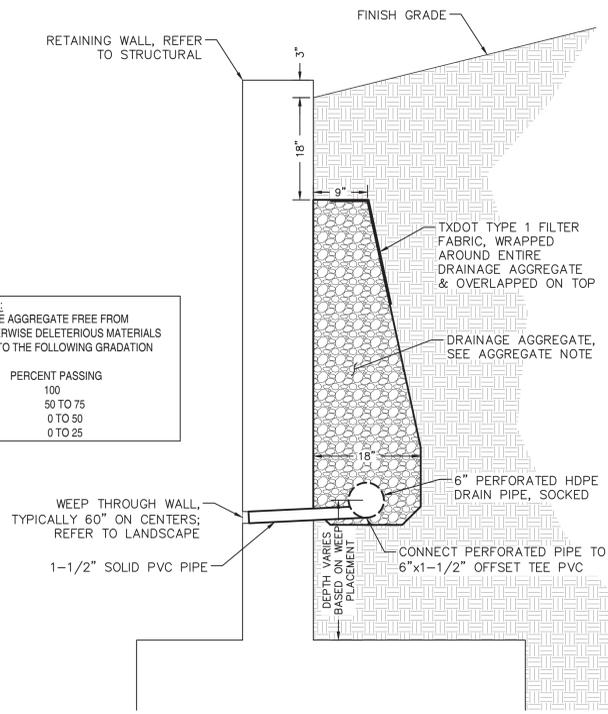
LEGEND

--- FD --- NEW WALL FOUNDATION
DRAIN PIPE, SEE
DETAIL 1 THIS SHEET



AGGREGATE NOTE:
WASHED DRAINAGE AGGREGATE FREE FROM ORGANIC OR OTHERWISE DELETERIOUS MATERIALS THAT CONFORMS TO THE FOLLOWING GRADATION LIMITS:

| SIEVE | PERCENT PASSING |
|-------|-----------------|
| 1" | 100 |
| 3/4" | 50 TO 75 |
| 1/2" | 0 TO 50 |
| NO.4 | 0 TO 25 |



1 WALL FOUNDATION DRAIN DETAIL
NOT TO SCALE

SHEET NOTES:

- REFER TO SHEET C1.01 EXISTING CONDITIONS PLAN at LAMBERT BEACH FOR NOTES & LEGEND

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ENLARGED
GRADING PLAN
at LAMBERT BEACH

Drawing Number

C4.41



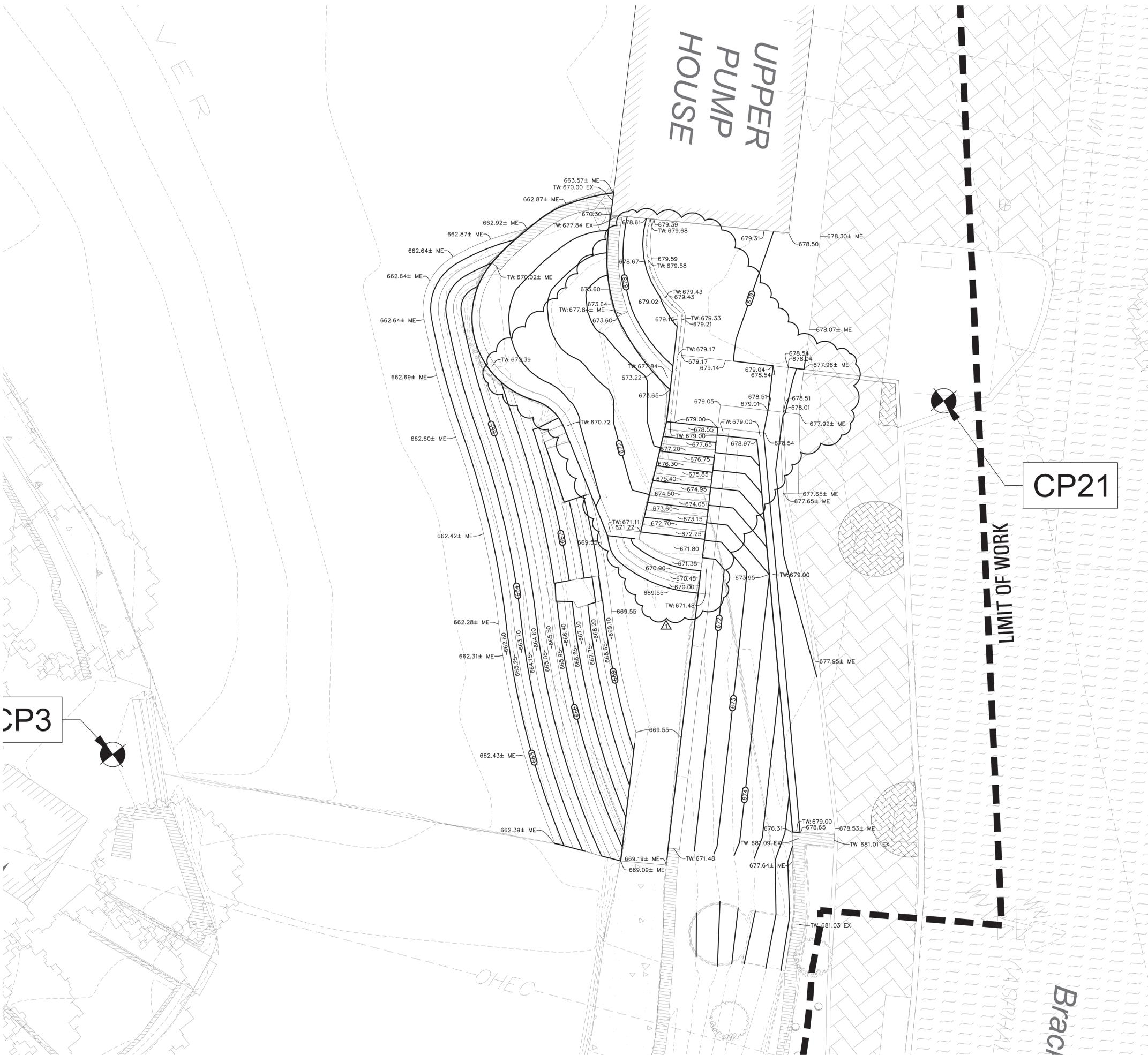
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0 2.5' 5' 10'
(IN FEET)
SCALE 1" = 5'

LEGEND

- NEW CONTOUR
- EXISTING CONTOUR
- 791.38 NEW SPOT ELEVATION
- 791.38± ME MATCH EXISTING SPOT ELEVATION
- 532.24 EX EXISTING SPOT ELEVATION
- TC: 532.74 NEW TOP OF CURB ELEVATION
- TW: 532.24 NEW TOP OF WALL ELEVATION
- TRW: 532.24 NEW TOP OF RIVER WALL ELEVATION
- NEW PAVER INFILL
- EXISTING PAVERS
- EXISTING ASPHALT PAVEMENT
- EXISTING BUILDING OUTLINE



SHEET NOTES:

- REFER TO SHEET C1.01 EXISTING CONDITIONS PLAN at LAMBERT BEACH FOR NOTES & LEGEND
- REFER TO SHEET C1.41 FOR GRADING NOTES

CP3

CP21

LIMIT OF WORK

UPPER
PUMP
HOUSE

Brack

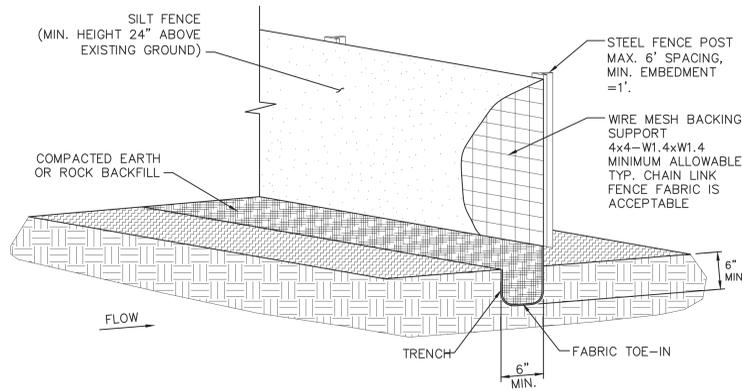
OHEC

EROSION CONTROL NOTES:

1. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE DESIGN ENGINEER. MINOR REVISIONS TO BE MADE AS FIELD REVISIONS TO THE STORMWATER POLLUTION PREVENTION PLAN MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.
2. INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX INCHES (6").
3. PRIOR TO FINAL ACCEPTANCE, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY, AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. DISPOSE ALL LAND CLEARING DEBRIS IN APPROVED SPOIL DISPOSAL SITES. REFER TO SPECIFICATIONS, SECTION 01 57 13 - TEMPORARY EROSION & SEDIMENT CONTROL.
4. RESTORE ALL DISTURBED AREAS IN ACCORDANCE WITH LANDSCAPE PLANS AND SPECIFICATIONS.
5. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY OR CROSSING ADJACENT STREETS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/ DEBRIS THAT WASH OFFSITE OR INTO EXISTING STORM DRAIN SYSTEMS.
6. CONTRACTOR SHALL EXECUTE ALL REQUIRED PROVISIONS OF THE STORM WATER POLLUTION PREVENTION AND EROSION CONTROL PLAN. ANY FINE RESULTING FROM FAILURE TO EXECUTE REQUIRED PROVISIONS WILL BE AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR MUST HAVE A DESIGNATED PERSON RESPONSIBLE FOR MONITORING EROSION CONTROL MEASURES TO INSURE THAT ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS ARE BEING COMPLIED WITH. THIS PERSON SHALL BE RESPONSIBLE FOR ALL REQUIRED FORMS AND DOCUMENTATION TO MEET REGULATIONS OF THE EPA, NPDES, AND TPDES GENERAL PERMIT.
8. IN THE EVENT OF UNUSUAL SITE CONDITIONS, OR WEATHER RELATED EVENTS, MORE STRINGENT REQUIREMENTS MAY BE REQUIRED (ON-SITE OR OFF) TO MAINTAIN EROSION CONTROL.
9. SEE SHEET C1.11 - EROSION & SEDIMENT CONTROL PLAN FOR ADDITIONAL INFORMATION.

EROSION AND SEDIMENTATION MISCELLANEOUS POLLUTION CONTROLS

1. MUD/DIRT INADVERTENTLY TRACKED OFFSITE AND ONTO PUBLIC STREETS SHALL BE REMOVED IMMEDIATELY BY HAND OR MECHANICAL BROOM SWEEPING.
2. CONSTRUCTION AND WASTE MATERIALS SHALL BE STORED WITHIN A DESIGNATED STORAGE AREA. BULK MATERIALS SUCH AS SAND, TOPSOIL, ETC. WILL BE BORDERED ON THE DOWN GRADIENT SIDES WITH A SILT FENCE. A LIST OF MATERIALS TO BE STORED ON-SITE SHOULD BE RECORDED AND REGULARLY UPDATED ON THE "ON-SITE MATERIAL LIST."
3. AN AREA SHALL BE DESIGNATED AS A CONSTRUCTION EQUIPMENT STORAGE AREA. CONSTRUCTION EQUIPMENT (EXCEPT LARGE SLOW MOVING EQUIPMENT) NOT REMOVED FROM THE SITE AT NIGHT SHALL BE STORED IN THE CONTAINMENT AREA.
4. EXCAVATION SPOILS TEMPORARILY STORED ONSITE, PENDING OFFSITE DISPOSAL IN ACCORDANCE WITH APPLICABLE REGULATIONS, SHALL BE BORDERED ON THE DOWN GRADIENT SIDE BY A SILT FENCE.
5. THE DESIGNATED CONSTRUCTION STORAGE AREA SHALL HAVE A SINGLE ENTRANCE AND WILL BE BORDERED ON THE DOWNGRADIENT SIDES BY A SILT FENCE AND/OR TRIANGULAR FILTER DIKE.
6. SEDIMENT COLLECTED BEHIND THE SILT FENCE WILL BE PERIODICALLY COLLECTED AND PLACED AS FILL MATERIAL WITHIN THE PROPERTY. CONTAMINATED SEDIMENTS WILL BE DISPOSED OFFSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
7. THE USE OF ON-SITE TEMPORARY CONSTRUCTION FUEL STORAGE TANKS IS LIMITED TO TANK SIZES WHICH CAN ONLY STORE UNREGULATED QUANTITIES OF FUEL.
8. INTENTIONAL RELEASE OF VEHICLE OR EQUIPMENT FLUID ONTO THE GROUND IS PROHIBITED. TAINTED SOIL RESULTING FROM ACCIDENTAL SPILLS SHALL BE REMOVED AND DISPOSED OF OFFSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
9. SCHEDULED CONSTRUCTION EQUIPMENT AND VEHICLE MAINTENANCE ACCOMPLISHED ON-SITE SHALL BE DONE WITHIN THE CONSTRUCTION EQUIPMENT AND VEHICLE STORAGE AREA.
10. A CONTROLLED AREA ON-SITE SHALL BE DESIGNATED AS A RINSE-OUT PIT FOR CONCRETE TRUCKS. RINSE-OUT PITS SHALL BE SURROUNDED BY BERM OR HAY BALES TO PREVENT RUNOFF OF CONTAMINATED WATER. THE CONTRACTOR WILL ADVISE HIS CONCRETE SUPPLIERS OF THE REQUIREMENTS TO UTILIZE THE RINSE-OUT PITS FOR THE INTENDED PURPOSE.
11. ADDITIONAL RINSE-OUT PITS MAY BE ADDED AS CONSTRUCTION CONDITIONS REQUIRE. THE CONTRACTOR WILL ADVISE HIS CONCRETE SUPPLIERS OF THE REQUIREMENTS TO UTILIZE THE RINSE-OUT PITS FOR THE INTENDED PURPOSE.
12. CONSTRUCTION WASTE MATERIALS, DOMESTIC GARBAGE, ETC. SHALL BE PERIODICALLY COLLECTED AND DISPOSED OFFSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
13. TRASH RECEPTACLES WILL BE ESTABLISHED AT STORAGE LOCATIONS, IN THE VICINITY OF EQUIPMENT STORING AND NEAR THE CONSTRUCTION AREAS. RECEPTACLES SHALL BE EMPTIED AS REQUIRED AND DISPOSED OFFSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.



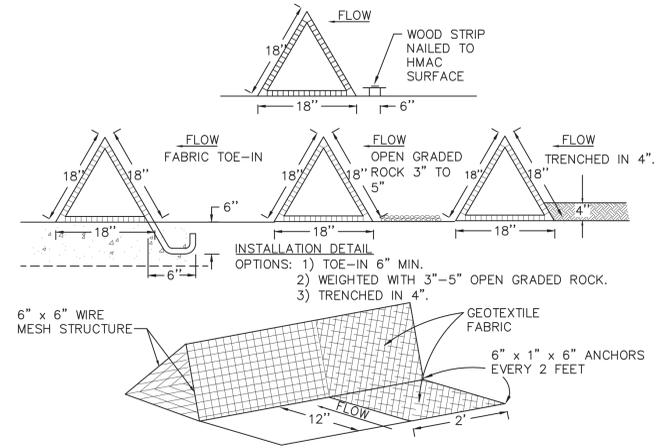
MATERIALS:

1. SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE NONWOVEN FABRIC. THE FABRIC WIDTH SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 IB/SQ IN, ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NO. 30.
2. FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR YBAR CROSS SECTION, SURFACE PAINTED OR GALVANIZED, MINIMUM NOMINAL WEIGHT 1.25 IB/SQ FT, AND BRINDELL HARDNESS EXCEEDING 140.
3. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2' X 4' WELDED WIRE, 12 GAUGE MINIMUM.

INSTALLATION:

1. STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 1-FOOT DEEP AND SPACED NOT MORE THAN 6 FEET ON CENTER. WHERE WATER CONCENTRATES, THE MAXIMUM SPACING SHOULD BE 6 FEET.
2. LAYOUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SITED SO THAT THE MAXIMUM DRAINAGE AREA IS 1/4 ACRE PER 100 FEET OF FENCE.
3. THE TOE OF THE SILT FENCE SHOULD BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN-SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G., PAVEMENT OR ROCK OUTCROP), WEIGHT FABRIC FLAP WITH 3 INCHES OF PEA GRAVEL ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
4. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
5. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
6. SILT FENCE SHALL NOT BE PLACED IN CHANNELS OR WATERWAYS AND SHALL FOLLOW CONTOURS AS CLOSELY AS POSSIBLE.
7. SLOPE INTO SILT FENCE SHALL NOT EXCEED 20% OR ANOTHER FORM OF TBMP SHALL BE IMPLEMENTED.

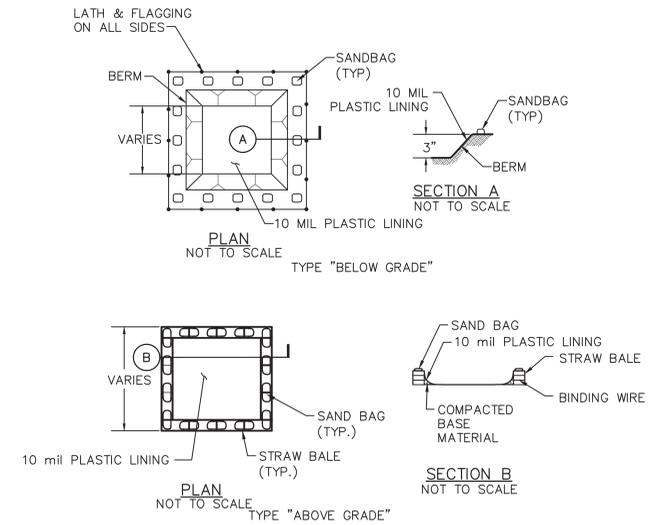
1 SILT FENCE DETAIL
NOT TO SCALE



GENERAL NOTES:

1. DIKES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT DIKE.
2. THE FABRIC COVER SHALL BE WEIGHTED WITH A CONTINUOUS WRAPPING OF GEOTEXTILE. THE SKIRT SHALL BE A CONTINUOUS EXTENSION OF THE FABRIC ON THE UPSTREAM FACE.
3. THE SKIRT SHALL BE WEIGHTED WITH A CONTINUOUS LAYER OF 3'-5' OPEN GRADED ROCK, OR TOED-IN 6' WITH MECHANICALLY COMPACTED MATERIAL, OTHERWISE, THE ENTIRE STRUCTURE SHALL BE TRENCHED 4'.
4. DIKES AND SKIRTS SHALL BE SECURELY ANCHORED IN PLACE USING 6 INCH WIRE STAPLES ON 2-FOOT CENTERS ON BOTH EDGES AND SKIRT, OR STAKED USING 3/8" DIAMETER REBAR WITH TEE ENDS.
5. FILTER MATERIAL SHALL BE LAPPED OVER ENDS 6' TO COVER DIKE TO DIKE JOINTS. JOINTS SHALL BE FASTENED WITH GALVANIZED SHOAT RINGS.
6. THE DIKE STRUCTURE SHALL BE 6 GA. 6' X 6' WIRE MESH, 18" ON A SIDE.
7. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6", AND DISPOSED OF IN A MANNER WHICH WILL NOT CAUSE ADDITIONAL SILTATION.
9. AFTER THE DEVELOPMENT SITE IS COMPLETELY STABILIZED, THE DIKES AND ANY REMAINING SILT FENCE SHALL BE REMOVED. SILT SHALL BE DISPOSED OF AS INDICATED IN NOTE 8 ABOVE.

2 TRIANGULAR FILTER DIKE DETAIL
NOT TO SCALE



CONCRETE WASHOUT PIT NOTES:

1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. CONTRACTOR TO PLACE AS MANY SAND BAGS AS NECESSARY TO ENSURE THE PLASTIC LINING REMAINS SECURE AT ALL TIMES.
3. LINER WILL BE REPLACED IF TORN OR DAMAGED.
4. PIT MUST BE USED ANYTIME CONCRETE IS BEING POURED AND WASHOUT IS OCCURRING.
5. REFER TO TCEQ MANUAL RG-348 FOR ADDITIONAL INFO REGARDING MATERIALS, INSTALLATION & MAINTENANCE ON THE BMP SHOWN ABOVE. THE MANUAL CAN BE FOUND ON-LINE AT: http://www.tceq.state.tx.us/comm_exec/forms_pubs/pubs/rg/rg-348/rg-348.html

3 CONCRETE WASHOUT PIT
NOT TO SCALE

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- 3
- 4
- 5

Date

11 JANUARY 2023

Phase

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Job Number

CN05701

Scale

North

Drawing Title

EROSION & SEDIMENT CONTROL NOTES & DETAILS

Drawing Number

C5.10



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Phase
95% CONSTRUCTION DOCUMENTS
Job Number
CNO5701

Scale North

Drawing Title

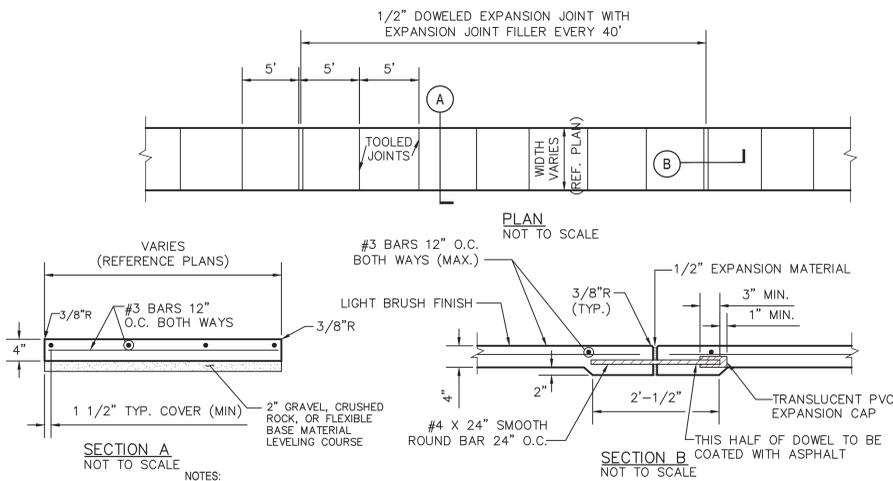
SITE DETAILS

Drawing Number

C5.30

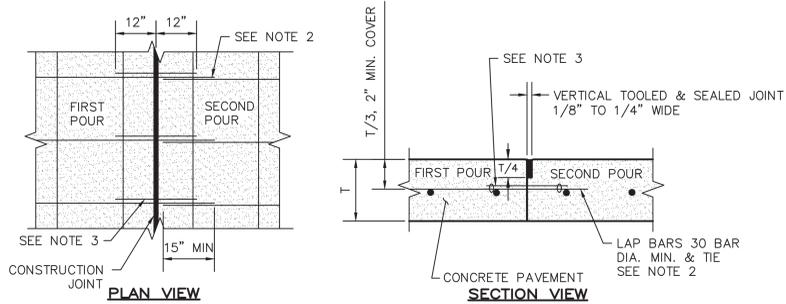
INTELLIGENT ENGINEERING SERVICES
ENGINEERING COMMUNITIES FROM THE GROUND UP
340 CENTRAL PARKWAY NORTH, SUITE 200, SAN ANTONIO, TEXAS 78212
254.516.0066
85 JOB NO: 2180721 1/11/23 TPE FORM F-432

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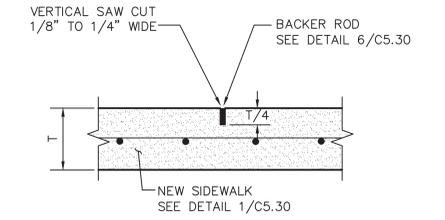
- NOTES:
- CROSS SLOPE OF SIDEWALK SHALL BE MAXIMUM SLOPE OF 1:50.
 - SIDEWALK SHALL BE 4" 3000 PSI CONCRETE UNLESS OTHERWISE SPECIFIED BY OWNER.
 - ALL HONEYCOMB IN BACK OF CURB TO BE TROWEL-PLASTERED BEFORE POURING SIDEWALK.
 - LUG MAY BE FORMED BY SHAPING SUBGRADE TO APPROXIMATE DIMENSIONS SHOWN.
 - DOWEL INTO EXISTING SIDEWALK WITH NO. 4 X 24" ON CENTER.
 - REFERENCE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
 - SIDEWALKS LESS THAN 5 FEET IN WIDTH SHALL BE PROVIDED WITH A PASSING SPACE AT A MAXIMUM SPACING OF 200 FEET.
 - ALL JOINTS TO BE SEALED.

1 REINFORCED CONCRETE SIDEWALK DETAIL
NOT TO SCALE



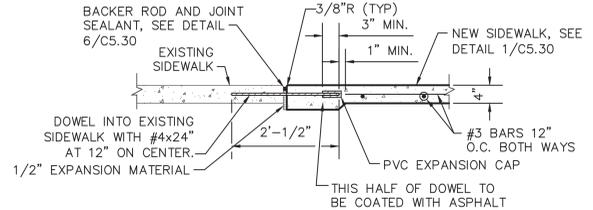
- NOTE:
- REINFORCING BARS SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS.
 - EXTEND REBAR FROM 1ST POUR 18" MIN PAST FORM BOARD TO PROVIDE LAP SPLICE FOR 2ND POUR REBAR.
 - PROVIDE 24" BAR (SAME SIZE AS PAVEMENT REINFORCING) CENTERED ACROSS JOINT AND PROVIDE WIRE TIES AT EACH END AND AT EACH LONGITUDINAL BAR.

2 CONSTRUCTION JOINT DETAIL
NOT TO SCALE

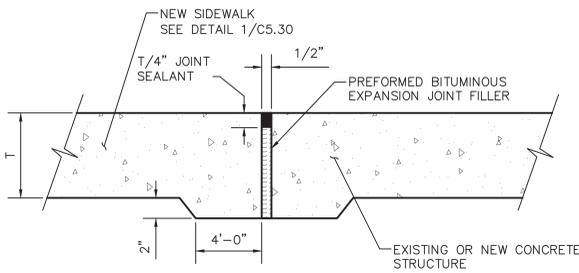


CONTROL JOINT NOTE
ALL JOINTS ARE TO BE CUT WITH EARLY ENTRY DRY CUT SAWS. ALL JOINTS ARE TO BE CUT IMMEDIATELY AFTER INITIAL SET OF THE CONCRETE IN THAT JOINT LOCATION, TYPICALLY WITHIN ONE TO FOUR HOURS DEPENDING ON WEATHER CONDITIONS. SAW JOINTS TO THE DEPTH SHOWN ON THE PLANS AS SOON AS SAWING CAN BE ACCOMPLISHED WITHOUT SPALLING AND RAVELING DAMAGE TO THE PAVEMENT REGARDLESS OF TIME OF DAY OR WEATHER CONDITIONS. USE A CHALK LINE, STRING LINE, SAWING TEMPLATE OR OTHER APPROVED METHOD TO PROVIDE A TRUE JOINT ALIGNMENT. PROVIDE ENOUGH SAWS TO MATCH THE PAVING PRODUCTION RATE TO ENSURE SAWING COMPLETION AT THE EARLIEST POSSIBLE TIME TO AVOID UNCONTROLLED CRACKING. REDUCE PAVING PRODUCTION IF NECESSARY TO ENSURE TIMELY SAWING OF JOINTS. PROMPTLY RESTORE MEMBRANE CURE DAMAGED WITHIN THE FIRST 72 HR. OF CURING.

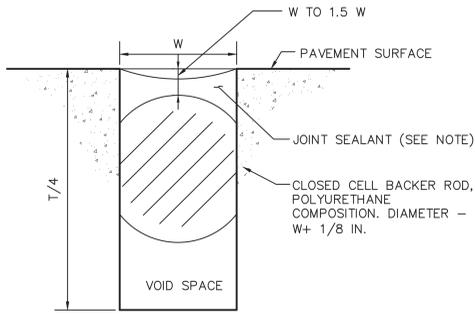
3 CONTROL JOINT DETAIL
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4 TYPICAL EXISTING SIDEWALK TO NEW SIDEWALK CONNECTION
NOT TO SCALE

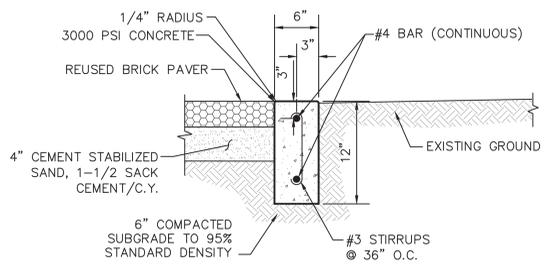


5 ISOLATION JOINT DETAIL
NOT TO SCALE



- NOTES:
- W = JOINT WIDTH
 - T = SLAB THICKNESS
 - JOINT SEALANT SHALL BE COLD POUR JOINT SEALANT, BASF SONLASTIC SL 1 OR APPROVED EQUAL.

6 BACKER ROD DETAIL
NOT TO SCALE



7 PAVER CURB DETAIL
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CN08701

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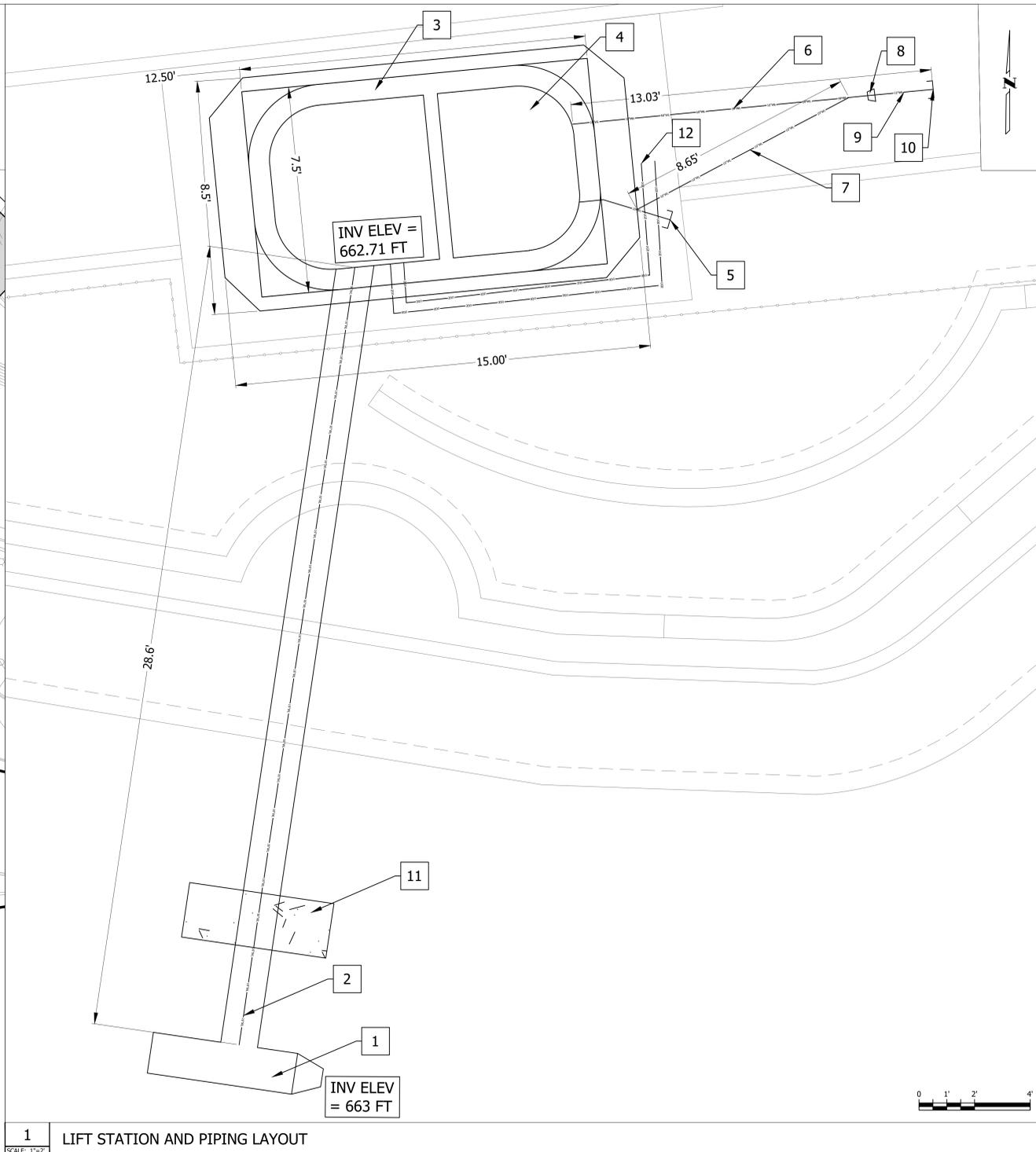
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Drawing Title

LIFT STATION AND PIPING LAYOUT

Drawing Number

C6.01

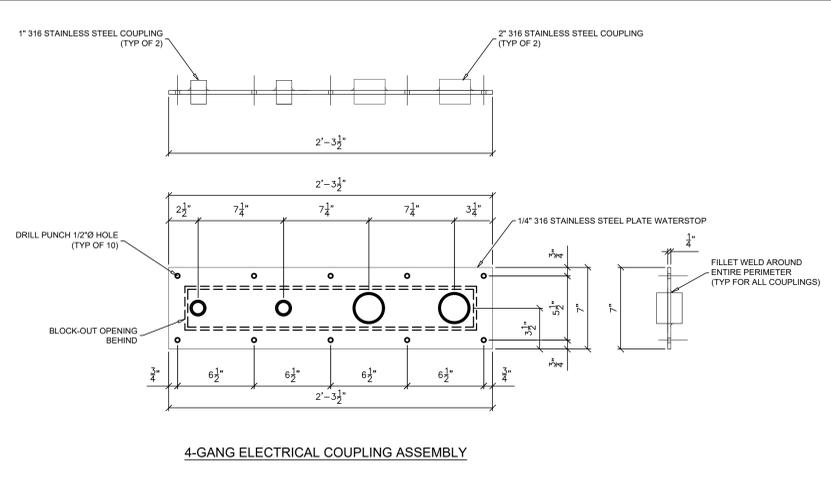
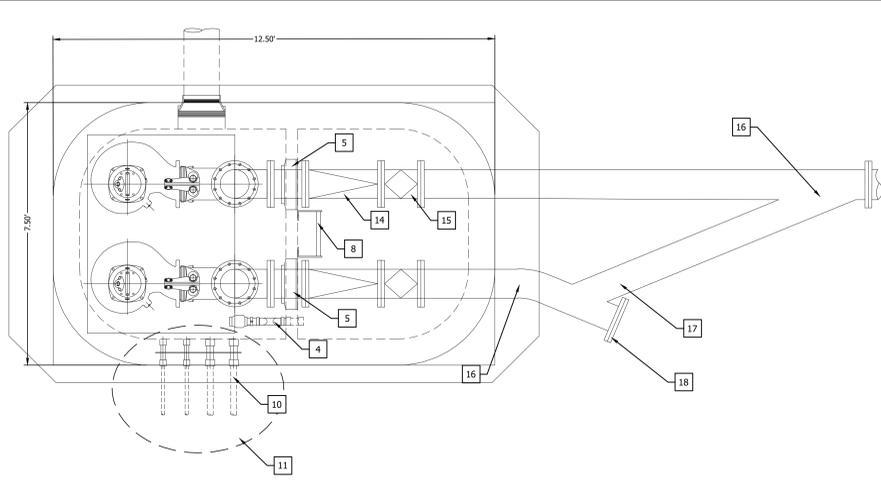
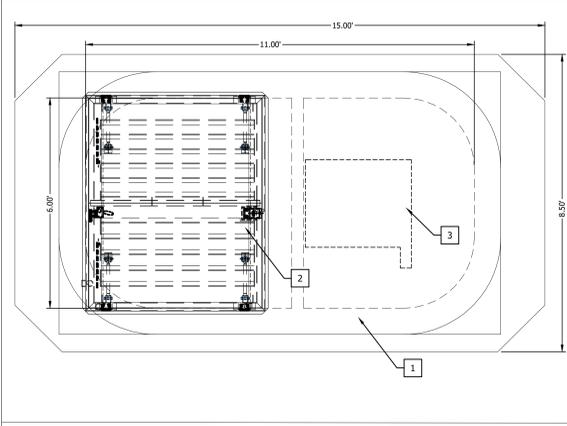


1 LIFT STATION AND PIPING LAYOUT

SCALE: 1"=2'

| SITE PLAN KEY NOTES | |
|---------------------|---|
| 1 | 90/10 COPPER NICKEL SCREEN (18" OD X 74" LENGTH), HENDRICK OR EQUIVALENT, REFER SPECS |
| 2 | 16" DUCTILE IRON WATER INTAKE PIPE |
| 3 | ONE LIFT STATION, OLDCASTLE OR EQUIVALENT, REFER SHEET C6.02 |
| 4 | INTEGRAL VALVE BOX WITHIN ONE LIFT STATION |
| 5 | 10" DUCTILE IRON BLIND FLANGE |
| 6 | 10" WATER DISCHARGE DUCTILE IRON LINE |
| 7 | 10" WATER DISCHARGE DUCTILE IRON LINE |
| 8 | 10"/12" DUCTILE IRON REDUCER |
| 9 | 12" DUCTILE IRON FORCE MAIN LINE |
| 10 | 12" DUCTILE IRON BLIND FLANGE |
| 11 | CONCRETE PIPE CRADLE, REFER SHEET C6.02 |
| 12 | TWO 2-IN CONDUITS FOR POWER/CONTROL CAP AT END |

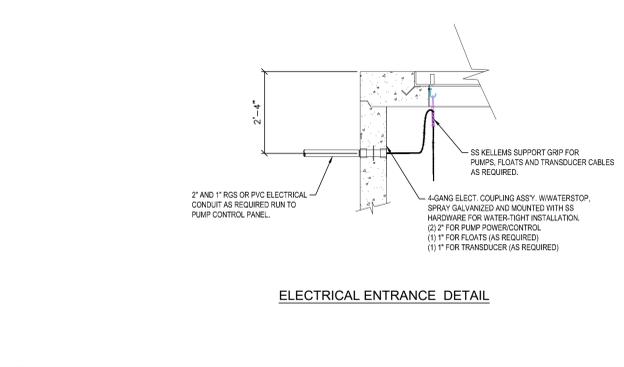
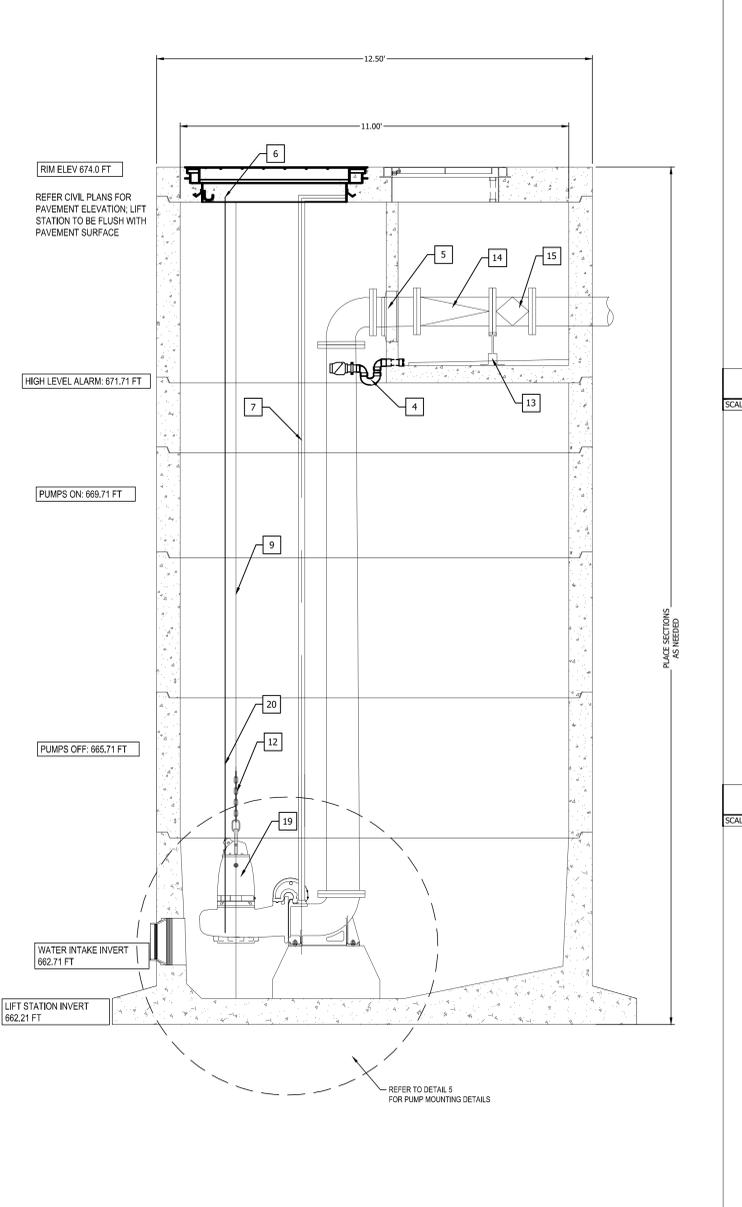
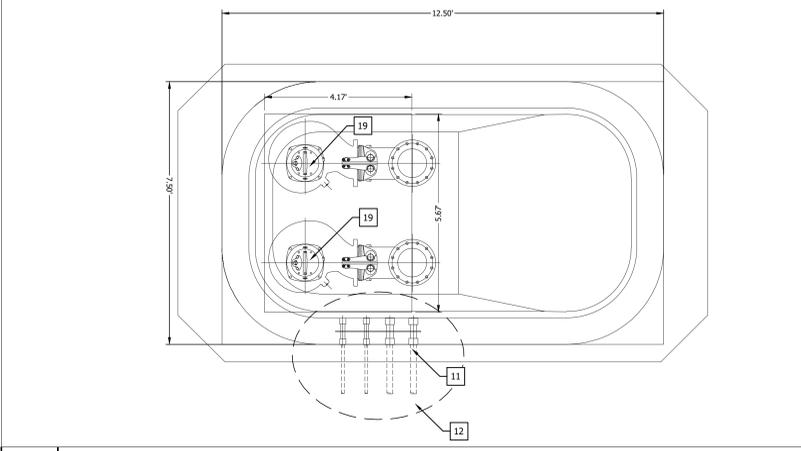




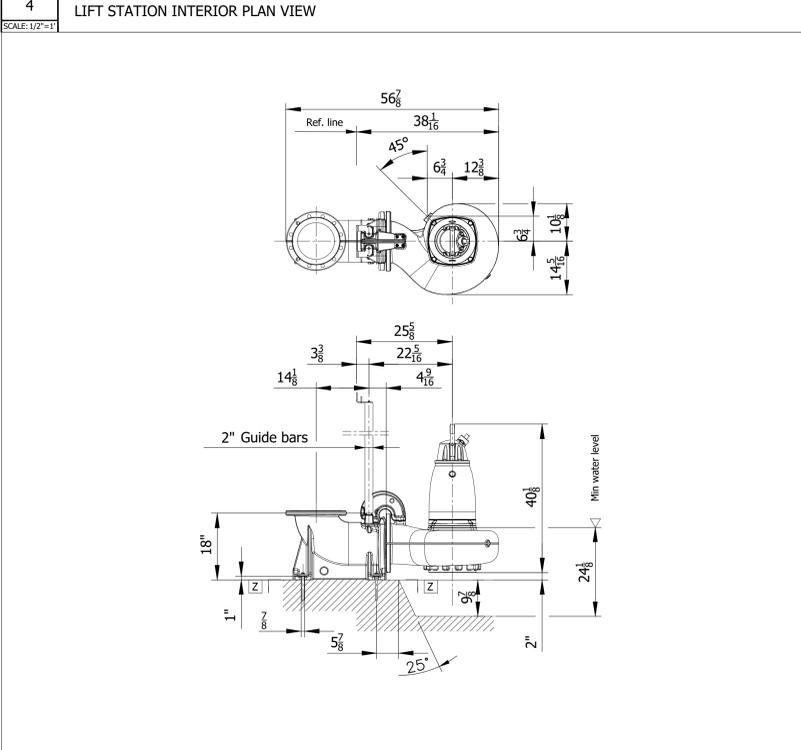
1 LIFT STATION PLAN VIEW
SCALE: 1/2"=1'

2 LIFT STATION PIPING SCHEMATIC
SCALE: 1/2"=1'

3 4-GANG ELECTRICAL COUPLING ASSEMBLY
SCALE: NTS

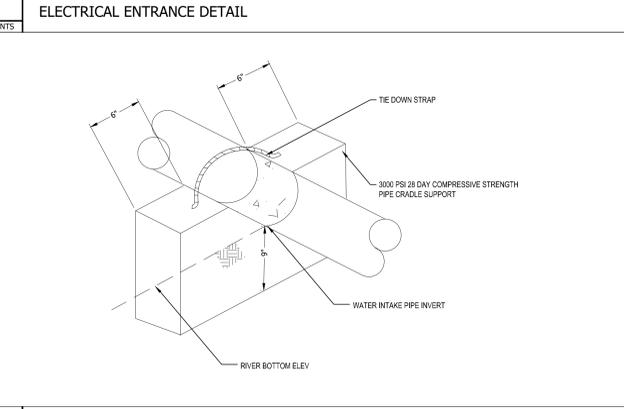


7 ELECTRICAL ENTRANCE DETAIL
SCALE: NTS



5 PUMP MOUNTING DETAILS
SCALE: NTS

6 LIFT STATION INTERIOR ELEVATION
SCALE: NTS



8 PIPE CRADLE SUPPORT DETAIL
SCALE: NTS

STRUCTURAL NOTES

1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH $f_c = 5,000$ psi
2. REBAR: ASTM A-615 GRADE 60
3. MESH: ASTM A-1064 GRADE 65
4. DESIGN: ACI 350-08
ASTM C890
5. LOADS: HS20 WHEEL LOADING IN OFF-STREET LOCATIONS WHERE NOT SUBJECTED TO HIGH DENSITY TRAFFIC
80 PSF LATERAL LIVE LOAD SURCHARGE - UP TO 8'-0" DEPTH
SOIL: 40 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE
80 PCF LATERAL SOIL PRESSURE BELOW WATER TABLE
120 PCF SOIL DENSITY
6. SOIL COVER: NONE
7. WATER TABLE: 5'-0" BELOW GRADE
8. FINISH: EXTERIOR: DAMP PROOFING
INTERIOR (VALVE VAULT): BARE CONCRETE
INTERIOR (PUMP AREA): BARE CONCRETE

GENERAL NOTES

1. EACH JOINT SHALL HAVE (2) ROWS OF RAM-NEK RN103 JOINT SEALANT CONTINUOUS AROUND ENTIRE PERIMETER.
2. CONTRACTOR TO VERIFY ALL HOLES & LOCATIONS

LIFT STATION KEY NOTES

| | |
|----|---|
| 1 | OLD CASTLE, ONE LIFT OR EQUIV. 6' X 11' ROUNDED CORNER PRECAST CONC. VAULT WITH INTEGRAL VALVE VAULT |
| 2 | 50" X 68" SLIP RESISTANT ACCESS HATCH HS-20 TRAFFIC RATED |
| 3 | 30" X 36" SLIP RESISTANT ACCESS HATCH HS-20 TRAFFIC RATED |
| 4 | VALVE PVC DRAIN ASSEMBLY |
| 5 | MANHOLE BOOT FOR 12" DUCTILE IRON PIPE |
| 6 | TRANSDUCER BRACKET |
| 7 | 2" GUIDE RAIL - SCH40 STAINLESS STEEL. RAIL WILL BE LEFT 6" IN LONG FOR FIELD CUTTING AFTER FINAL STATION ERECTING. |
| 8 | ALUMINUM LADDER WITH SERRATED RUNGS (4'-10") 7" STANDOFF WITH SAFETY PULLUP |
| 9 | SS SUPPORT GRIPS, SERVICE DROP FOR PUMPS AND TRANSDUCERS |
| 10 | 4 GANG CONDUIT PLATE WITH WATERSTOP AND SS HARDWARE |
| 11 | AREA FOR CABLE ENTRANCE & SUPPORT |
| 12 | PUMP LIFTING CABLE WITH CHAINS |
| 13 | 10" PIPE FLANGE CRADLE SUPPORT - FLOOR MOUNT |
| 14 | 12" MUELLER SWING CHECK VALVE - FL. X FL. OR EQUIVALENT |
| 15 | 12" A-2361 MUELLER RESILIENT WEDGE GATE VALE OR EQUIVALENT |
| 16 | 10" 22.5 DEG DUCTILE IRON BEND |
| 17 | 10" 45 DEG DUCTILE IRON WYE |
| 18 | 10" DUCTILE IRON BLIND FLANGE |
| 19 | FLYGT PUMP NP3153 LT 3 - 622 OR EQUIVALENT |
| 20 | TRANSDUCER FOR PUMP CONTROL |

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LIFT STATION DETAILS

Drawing Number

C6.02

TREE REMOVAL NOTES:

1. "TREES TO BE REMOVED UNDER HISTORIAN OVERSIGHT" PER LEGEND WILL REQUIRE A HISTORIAN (PROVIDED BY PWD EMD) TO BE PRESENT BEFORE REMOVAL ACTIVITIES CAN BEGIN. TO ENSURE NO DAMAGE OCCURS TO HISTORIC STANDING STRUCTURES.
2. DO NOT STAGE EQUIPMENT ON OR NEAR HISTORIC RIVER WALLS OR HISTORIC STRUCTURES. EXACT DISTANCE WILL DEPEND ON CONDITION OF HISTORIC STRUCTURE. SUPPORT WILL BE PROVIDED BY THE MONITOR ON SITE.
3. IF HEAVY EQUIPMENT (SKID LOADER AND UP) IS TO BE USED NEAR A HISTORIC STRUCTURE, USE EDM APPROVED METHODS OF PROTECTION. CONTACT THE PWD EMD ARCHITECTURAL HISTORIAN (210-207-1454) FOR GUIDANCE.
4. CONTRACTOR TO LIMIT SOIL DISTURBANCE OUTSIDE OF 5' RADIAL PERIMETER OF ROOTBALL DURING TREE REMOVAL.
5. ALL TREES TO BE REMOVED SHALL BE MARKED PER TECHNICAL SPECIFICATIONS AND REMOVED UPON REVIEW AND APPROVAL BY OWNER AND LANDSCAPE ARCHITECT.
6. ALL TREES IN AREAS NOT MARKED FOR REMOVAL SHALL REMAIN UNLESS OTHERWISE NOTED. ANY TREE THAT DOES NOT APPEAR ON THE TREE SURVEY SHALL BE VERIFIED WITH THE OWNER AND LANDSCAPE ARCHITECT TO DETERMINE STATUS OF REMOVAL.
7. ALL TREES REMOVED EXCEPT THOSE DESIGNATED FOR THE SALVAGE OF TIMBER BY OWNER SHALL BE MULCHED ON SITE INCLUDING ALL LIMBRACH DEBRIS AND TRUNK. MULCH GRIND SHALL BE STORED ON SITE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR REMOVAL AND STORAGE INFORMATION.

EXISTING TREE MAINTENANCE NOTES:

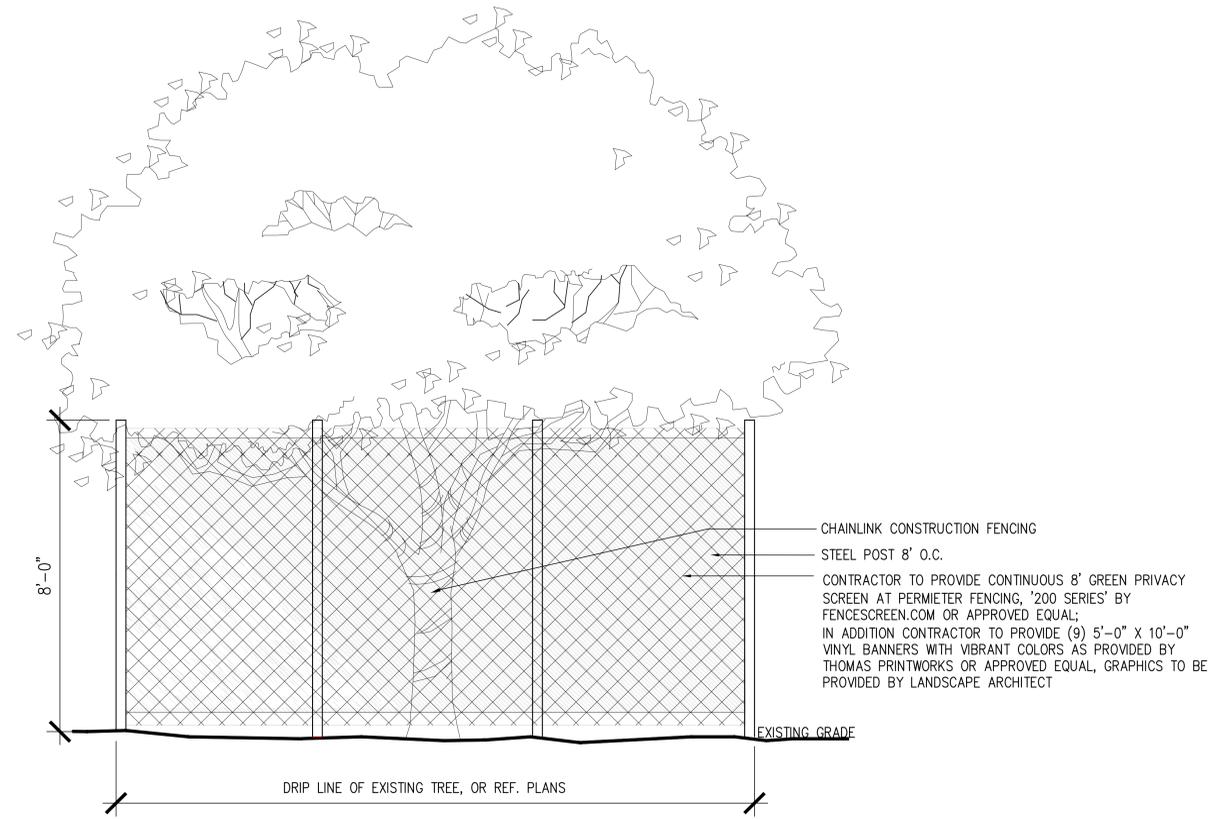
1. TREE MAINTENANCE SHALL OCCUR AS NOTED FOR ALL EXISTING TREES AS REQUIRED PER TECHNICAL SPECIFICATIONS ISSUED. SUCH OPERATIONS MAY INCLUDE TRIMMING, PRUNING, FERTILIZING, WATERING, ROOT PRUNING AND/OR FOLIAGE WASHING AS REQUIRED BY SITE ARBORIST OR LANDSCAPE ARCHITECT.
2. TREE MAINTENANCE OPERATIONS SHALL BE DEEMED HIGH PRIORITY AND SHALL OCCUR WHEN SUCH NOTED OPERATIONS ARE NOTED TO OCCUR AND SHALL OCCUR AS NOTED BY ARBORIST.

GENERAL TREE PROTECTION NOTES:

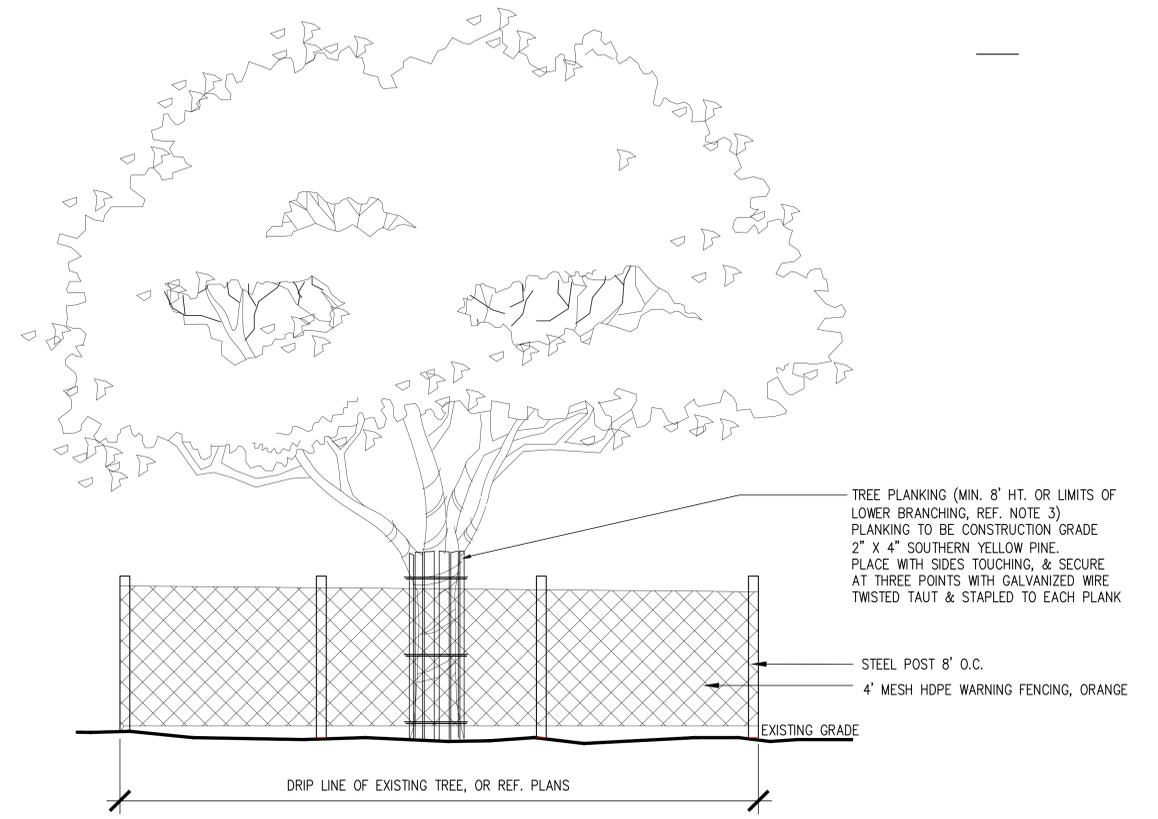
1. ALL TREES INDICATED ON THE TREE PRESERVATION PLANS TO BE PROTECTED SHALL BE PROTECTED WITH TEMPORARY FENCING THROUGHOUT CONSTRUCTION.
2. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION AND/OR SITE PREPARATION WORK (CLEARING OR GRUBBING).
3. FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES; FENCES SHALL BE LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIP LINE); AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT. FENCES MAY BE MOVED OR REMOVED TO ENABLE THE PROGRESS OF CONSTRUCTION ONLY AS APPROVED BY THE LANDSCAPE ARCHITECT.
4. WHERE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN 4 FEET TO A TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8' (OR TO THE LIMITS OF THE LOWER BRANCHING) AS INDICATED ON TREE PRESERVATION PLANS.
5. COVER THE ROOT ZONE AREA WITH 4" OF HARDWOOD MULCH, UNDER DIRECTION OF THE LANDSCAPE ARCHITECT, WHERE ROOT ZONES WITHIN DRIP LINES ARE UNPROTECTED BY FENCING.
6. ANY ROOT SEVERED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH SPECIFIED TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH SPECIFIED ORGANIC MATERIAL. THE OWNER AND LANDSCAPE ARCHITECT MUST BE NOTIFIED IMMEDIATELY OF ANY DAMAGE TO PRESERVED TREES.
7. TREES HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE WATERED THOROUGHLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER AS DIRECTED BY THE LANDSCAPE ARCHITECT. TREE CROWNS SHALL BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.

GENERAL TREE PROTECTION NOTES (CONT.)

1. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN A 3" LAYER SHALL BE PERMITTED WITHIN THE DRIP LINE OF TREES. NO SOIL OR MULCH IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
2. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS BY CITY OF SAN ANTONIO ARBORIST.
3. ALL FINISHED PRUNING MUST BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE CITY OF SAN ANTONIO.
4. COVER SEVERED ROOTS AND TREE SIDE OF TRENCH WITH 8 MIL BLACK VISQUENE TO FULL DEPTH OF TRENCH AND 6" OVER TOP. STAPLE VISQUENE IN PLACE, BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL, TO PROTECT ROOT ENDS FROM CONCRETE AND LIME.
5. CORE AERATE AND DEEP ROOT FERTILIZE TREES BY PROBE AND WATER INJECTION OF DAVEY ARBOR GREEN FERTILIZER. REFER TO MANUFACTURER'S MAXIMUM RECOMMENDED RATES PER TREE CALIPER INCHES. INJECT 18"-24" DEEP 5'-0" O.C. THROUGHOUT DRIP-LINE OF TREE UNLESS OTHERWISE DIRECTED BY CITY ARBORIST.
6. CONTRACTOR SHALL MODIFY EXHAUST PIPES ON CONSTRUCTION EQUIPMENT AS NEEDED TO INSURE THAT TREE CROWNS ARE NOT DAMAGED FROM EXHAUST HEAT FROM VERTICAL EXHAUST PIPES ON TOP OF CONSTRUCTION EQUIPMENT.
7. EQUIPMENT MUST NOT TOUCH UNDERSIDE OF TREE CROWNS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TREE WORK/REPAIR TO ANY DAMAGE TO EXISTING TREES DURING THE CONTRACT PERIOD. DAMAGE TO ANY EXISTING TREES SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL SUBMIT TO OWNER'S REPRESENTATIVE A WRITTEN PROGRAM OF CORRECTIVE PRUNING AND TREE CARE TO REPAIR DAMAGE WITH THE NAME OF A QUALIFIED URBAN FORESTER OR ARBORIST FOR OWNER'S APPROVAL.
9. PLANS ARE DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED TREE FENCING LIMITS.
10. ALL EXISTING TREES, IN DESIGNATED PROTECTED AREAS, MUST BE PRUNED TO AVOID DAMAGE BY EQUIPMENT DURING CONSTRUCTION OPERATIONS (REF. SPEC SECTION 02112)
11. THESE NOTES ARE SUPPLEMENTARY TO SPECIFICATION SECTION 015639.



02 PERIMETER FENCING
1 1/2" = 1'-0"



01 TREE FENCE
1 1/2" = 1'-0"

BRACKENRIDGE PARK

SAN ANTONIO, TX

CLIENT:
CITY OF SAN ANTONIO
PUBLIC WORKS DEPARTMENT (TCD)
PO BOX 839966, SAN ANTONIO TX 78283-3966

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OVERLAND PARTNERS

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SAN ANTONIO, TX 78215

SEVENTH GENERATION DESIGN

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SAN ANTONIO, TX 78212

WORKSHOP

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LUNDY & FRANKE ENGINEERING

STRUCTURAL ENGINEER
548 HEIMER
SAN ANTONIO, TX 78232

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TRUE NORTH CONSULTING GROUP

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AUSTIN TX, 78729

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SAN ANTONIO TX, 78208

WGI ENGINEERING

HYDROLOGY
5710 W HAUSMAN RD,
SAN ANTONIO, TX 78249

Stamp



Revisions

- 1 . . .
- 2 . . .
- 3 . . .
- 4 . . .
- 5 . . .

Date
11 JANUARY 2023

Phase
95% CONSTRUCTION DOCUMENTS
Job Number
CNO5701

Scale North

Drawing Title
TREE PROTECTION AND DEMOLITION NOTES

Drawing Number

L0.03

BRACKENRIDGE PARK

SAN ANTONIO, TX

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Date
11 JANUARY 2023

Phase
95% CONSTRUCTION DOCUMENTS

Job Number
CN05701

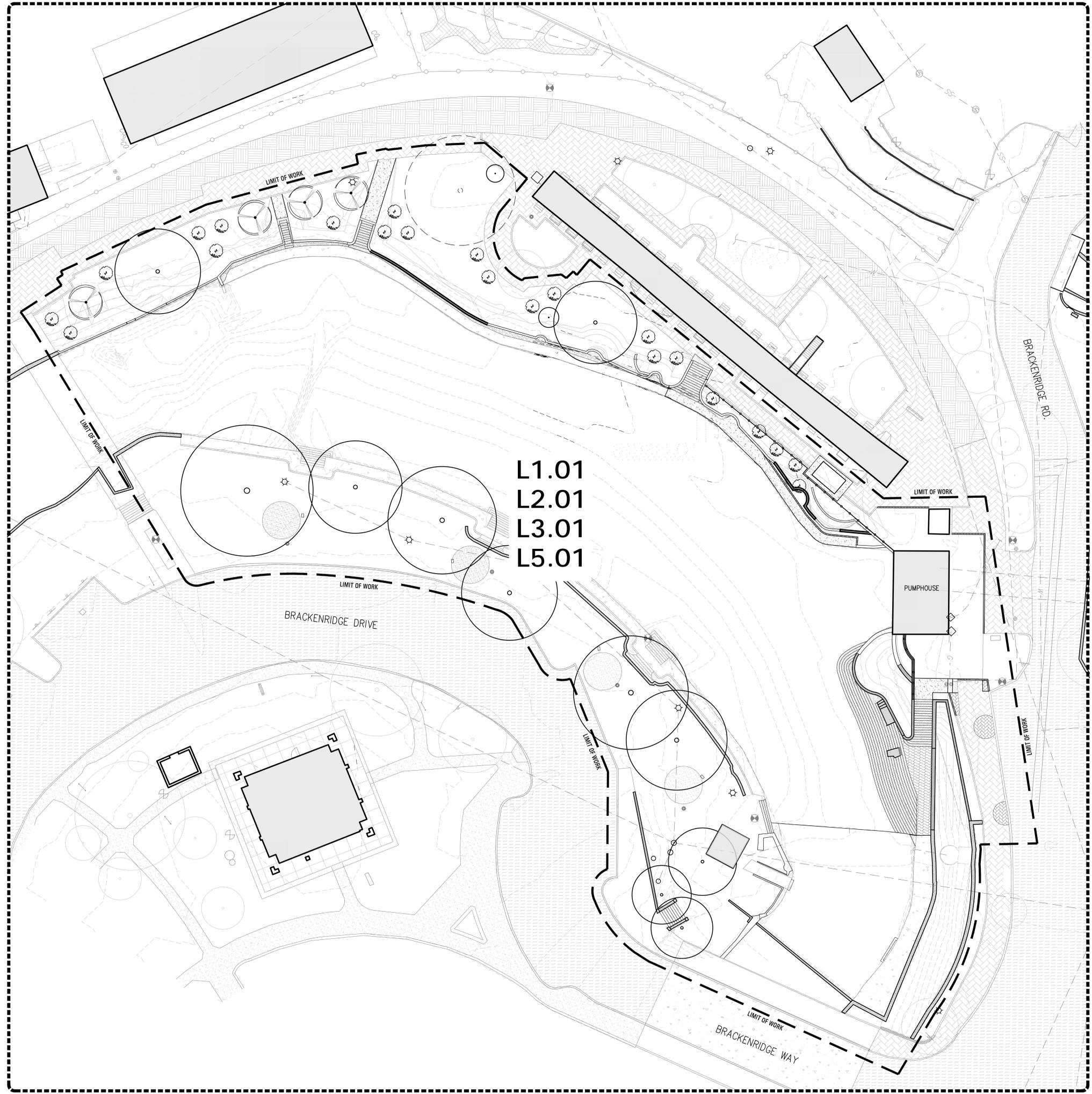
Scale
0 10' 20'
1" = 20'

Drawing Title

KEY MAP

Drawing Number

L0.04



BRACKENRIDGE PARK

SAN ANTONIO, TX

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Date

11 JANUARY 2023

Phase

95% CONSTRUCTION DOCUMENTS

Job Number

CN05701

Scale

0 8' 16'
1/8" = 1'-0"

Drawing Title

TREE PROTECTION AND MITIGATION SUMMARY

Drawing Number

L1.00

NOTES:

1. TREE 101 TO BE RELOCATED WITHIN SCOPE OF WORK AS INDICATED ON PLAN
2. ALL OTHER TREES TO BE RELOCATED OUTSIDE LIMIT OF WORK, BUT WITHIN GREATER BRACKENRIDGE PARK

CITY OF SAN ANTONIO - UDC V-5-35-523

Floodplain Tree Preservation Inventory

| TREE # | TAG # | SPECIES | DBH | SMALL SPECIES TREES** | | | | LARGE SPECIES TREES* | | | | | PROTECTED CAL. INCHES EXEMPT | COMMENTS | |
|---------------|-------------|----------------|-------------|-----------------------|---------------------|--------------------|------------------------|-----------------------|---------------------|--------------------|------------------------|------------------------|------------------------------|----------|--|
| | | | | SIGNIFICANT PRESERVED | SIGNIFICANT REMOVED | HERITAGE PRESERVED | HERITAGE REMOVED (1:1) | SIGNIFICANT PRESERVED | SIGNIFICANT REMOVED | HERITAGE PRESERVED | HERITAGE REMOVED (3:1) | HERITAGE REMOVED (1:1) | | | |
| 092 | 2229 | Oak | 7 | | | | | 7 | | | | | | | |
| 093 | 2234 | Bald Cypress | 19 | | | | | | | | | | | 19 | Dead; TO BE REMOVED |
| 094 | 2339 | Chinese Tallow | 12 | | | | | | | | | | | 12 | Invasive Species; TO BE REMOVED |
| 095 | 2334 | Oak | 32 | | | | | | | | 32 | | | | |
| 096 | 2338 | Oak | 34 | | | | | | | 34 | | | | | |
| 097 | 2310 | Oak | 22 | | | | | | 22 | | | | | | |
| 098 | 2364 | Oak | 18 | | | | | | 18 | | | | | | |
| 099 | 2335 | Oak | 16 | | | | | | 16 | | | | | | |
| 100 | 6006 (2306) | Oak | 37 | | | | | | | | 37 | | | | |
| 101 | 2324 | Oak | 44 | | | | | | | | | | | | TO BE RELOCATED |
| 102 | 2319 | Cedar Elm | 18 | | | | | | 18 | | | | | | |
| 103 | 2328 | Bald Cypress | 20 | | | | | | | | | | | 20 | Outside LOW; PRESERVED, Not Counted |
| 104 | 6007 (602) | Pecan | 8 | | | | | 8 | | | | | | | |
| 105 | 2366 | Bald Cypress | 33 | | | | | | | 33 | | | | | |
| 106 | 2358 | Cypress | 23 | | | | | | 23 | | | | | | |
| 107 | 2364 | Black Walnut | 18 | | | | | | 18 | | | | | | |
| 108 | 2392 | Black Walnut | 22 | | | | | | 22 | | | | | | |
| 109 | 2325 | Crepe Myrtle | 10 | | | | | 10 | | | | | | | TO BE RELOCATED; Multi-Trunk |
| 111 | 3026 | Yaupon | 3 | | 3 | | | | | | | | | | |
| 112 | 2372 | Crepe Myrtle | 16 | | | | | 16 | | | | | | | TO BE RELOCATED; Multi-Trunk |
| 113 | 2375 | Pecan | 20 | | | | | 20 | | | | | | | TO BE RELOCATED; Multi-Trunk |
| 116 | 2359 | Pecan | 23.5 | | | | | 23.5 | | | | | | | |
| 117 | 2314 | Pecan | 24 | | | | | | | 24 | | | | | |
| 118 | 2387 | Crepe Myrtle | 27 | | | | | | | 27 | | | | | |
| 119 | 2311 | Crepe Myrtle | 15 | | | | | | 15 | | | | | | Multi-trunk |
| 120 | 2344 | Crepe Myrtle | 23 | | | | | | | | | | | 23 | Dead; Multi-trunk; TO BE REMOVED |
| 121 | 2371 | Crepe Myrtle | 25 | | | | | | | | | | | 25 | Dead; Multi-trunk; TO BE REMOVED |
| 122 | 2383 | Pecan | 22 | | | | | | 22 | | | | | | |
| 123 | 2342 | Cypress | 40 | | | | | | | 40 | | | | | |
| 124 | 2388 | Bald Cypress | 46 | | | | | | | 46 | | | | | |
| 125 | 2343 | Crepe Myrtle | 27 | | | | | | | | 27 | | | | Multi-trunk |
| 126 | 2398 | Bald Cypress | 38 | | | | | | | 38 | | | | | |
| 127 | 2378 | Crepe Myrtle | 9 | | | | | | 9 | | | | | | |
| 128 | 2336 | Crepe Myrtle | 22 | | | | | | | | | | | 22 | Dead; Arborist Recommended for Removal |
| 129 | 2226 | Bald Cypress | 43 | | | | | | | 43 | | | | | |
| 130 | 2337 | Bald Cypress | 37 | | | | | | | 37 | | | | | |
| 131 | 2315 | Hackberry | 25 | | | | 25 | | | | | | | | Multi-trunk |
| 132 | 2400 | Crepe Myrtle | 17 | | | | | | 17 | | | | | | Multi-trunk |
| 133 | 2320 | Bald Cypress | 53 | | | | | | | 53 | | | | | |
| 134 | 6008 (2376) | Oak | 16 | | | | | | 16 | | | | | | |
| 135 | 6009 (2307) | Oak | 15 | | | | | | 15 | | | | | | |
| 136 | 6010 (603) | Oak | 20 | | | | | | 20 | | | | | | |
| 137 | 6011 (2305) | Cedar Elm | 17 | | | | | | | | | | | | |
| 138 | 6012 (2309) | Cedar Elm | 16 | | | | | | | | | | | | |
| 139 | 2385 | Pecan | 26 | | | | | | | | 26 | | | | |
| 140 | 2399 | Pecan | 24 | | | | | | | | 24 | | | | |
| 141 | 2354 | Bald Cypress | 27 | | | | | | | | 27 | | | | |
| 142 | 2316 | Pecan | 20 | | | | | | | | 20 | | | | |
| 143 | 2318 | Cedar Elm | 12 | | | | | | 12 | | | | | | |
| 144 | 2373 | Eve's Necklace | 8 | | | | | 8 | | | | | | | TO BE RELOCATED |
| 215 | 2390 | Crepe Myrtle | 19 | | | | | | 19 | | | | | | |
| 235 | 10427 | Anaqua | 8 | | | | | | 8 | | | | | | Multi-Tunk |
| 236 | 10426 | Oak | 6 | | | | | | 6 | | | | | | |
| 237 | 10425 | Huisache | 5 | | 5 | | | | | | | | | | Cluster |
| 238 | 10407 | Yaupon Holly | 5 | | | | | 5 | | | | | | | TO BE RELOCATED |
| 239 | 10424 | Mesquite | 2 | | 2 | | | | | | | | | | |
| 240 | 10421 | Crepe Myrtle | 3 | | | | | | 3 | | | | | | |
| 241 | 10406 | Yaupon Holly | 2 | | | | | 2 | | | | | | | TO BE RELOCATED |
| 242 | 10405 | Elm | 1 | | | | | | 1 | | | | | | |
| 243 | 10404 | Elm | 4 | | | | | 4 | | | | | | | TO BE RELOCATED |
| 244 | 10403 | Hackberry | 2 | | 2 | | | | | | | | | | |
| 245 | 10402 | Hackberry | 4 | | 4 | | | | | | | | | | |
| 246 | 10401 | Elm | 2 | | | | | 2 | | | | | | | TO BE RELOCATED |
| 247 | 10423 | Cypress | 3 | | | | | | 3 | | | | | | TO BE RELOCATED |
| 248 | 10422 | Cypress | 3 | | | | | | 3 | | | | | | TO BE RELOCATED |
| 249 | 10418 | Chinaberry | 4 | | | | | | | | | | 4 | | Invasive Species; TO BE REMOVED |
| 250 | 10420 | Oak | 4 | | | | | | 4 | | | | | | |
| 251 | 10411 | Chinaberry | 2 | | | | | | | | | | 2 | | Invasive Species; TO BE REMOVED |
| 252 | 10417 | Chinaberry | 4 | | | | | | | | | | 4 | | Invasive Species; TO BE REMOVED |
| 253 | 10415 | Pecan | 4 | | | | | | 4 | | | | | | CLUSTER |
| 254 | 10400 | Yaupon Holly | 5 | | | | | 5 | | | | | | | TO BE RELOCATED |
| 255 | 3025 | Buckeye | 4 | | | | | | 4 | | | | | | TO BE RELOCATED |
| 256 | 3023 | Buckeye | 5 | | | | | | 5 | | | | | | TO BE RELOCATED |
| 257 | 3024 | Buckeye | 4 | | | | | | 4 | | | | | | TO BE RELOCATED |
| 266 | 10408 | Mesquite | 4 | | 4 | | | | | | | | | | TO BE RELOCATED |
| 267 | 10409 | Buckeye | 4 | | | | | | 4 | | | | | | TO BE RELOCATED |
| 268 | 10410 | Mesquite | 4.5 | | 4.5 | | | | | | | | | | TO BE RELOCATED |
| 269 | 10411 | Buckeye | 2 | | | | | | 2 | | | | | | TO BE RELOCATED |
| 270 | 10412 | Hackberry | 4 | | 4 | | | | | | | | | | TO BE RELOCATED; Twin |
| 271 | 10413 | Hackberry | 8 | | | | 8 | | | | | | | | Cluster |
| 272 | 10414 | Hackberry | 3 | | | | 3 | | | | | | | | |
| 273 | 2335 | Crepe Myrtle | 6 | | | | | | 6 | | | | | | |
| 275 | 3026 | Yaupon Holly | 2 | | | | | | 2 | | | | | | TO BE RELOCATED |
| TOTALS | | | 1290 | 12.5 | 27 | 0 | 25 | 135.5 | 347 | 419 | 193 | 0 | 131 | | |

No category to fall below 20% preservation;

Preserved- Tree to remain that meets root protection zone requirements described in section 35-523 of the UDC.

*Mitigation 1:1 for significant trees below minimum preservation requirements; 3:1 for heritage trees below 100% preservation

** Small species: Condalia, Redbud, Tx. Mountain Laurel, Tx. Persimmon, Hawthorn, Possumhaw - these are mitigated at 1:1 for all small trees regardless of size within the Floodplain and heritage trees are mitigated at 1:1

** Ashe Juniper, Huisache, Mesquite, Arizona Ash, Hackberry protected regardless of size in the Floodplain and mitigated at 1:1 for heritage trees (12" DBH)

MITIGATION SUMMARY

RIO 1 OVERLAY DISTRICT

REQUIRED MITIGATION

TOTAL FLOODPLAIN EXCESS / MITIGATION: 924

GRAND TOTAL EXCESS / MITIGATION REQUIRED: 924

MITIGATION PROVIDED

MITIGATION PROPOSED AS PROPOSED PLANTINGS (PHASE 1) 76.5

MITIGATION PROPOSED IN FUTURE PROJECT PHASES (PARK-WIDE) 847

MITIGATION PROVIDED AS PAYMENT (\$200 per Inch) 0

MITIGATION BALANCE: 0

CITY OF SAN ANTONIO - UDC V-5-35-523

12/13/2022 16:48

Tree Canopy Cover (Floodplain Excluded)

| | |
|---------------------|--------------|
| TOTAL PROJECT AREA | 78,478 SF |
| 15% CANOPY REQUIRED | 11,771.70 SF |

PROJECT SITE WITHIN CRAIG AREA

CANOPY MET WITH PRESERVED TREES - REFERENCE TP SERIES

| QTY. | SHADE VALUE | PERCENT | SOFT | SPECIES | NOTES |
|------|-------------|---------|--------|--|-------|
| 4 | 1,200 | 100% | 4,800 | (4) Pecan | |
| 16 | 875 | 100% | 14,000 | (3) Live Oak, (1) Hackberry, (1) Eve's Necklace, (2) Cedar Elm, (9) Bald Cypress | |
| 2 | 550 | 100% | 1,100 | (2) Mesquite | |
| 2 | 275 | 100% | 550 | (2) Mexican Buckeye | |

TOTAL PRESERVED CANOPY 20,450 SF

TOTAL PRESERVED CANOPY 26.1%

CANOPY MET WITH PROPOSED TREE PLANTINGS - REFERENCE L SERIES

| QTY. | SHADE VALUE | PERCENT | SOFT | SPECIES | NOTES |
|------|-------------|---------|----------|--|-------|
| 4 | 875 | 90% | 3,150.00 | (4) Live Oak | |
| 11 | 275 | 90% | 2,722.50 | (3) Possumhaw Holly, (3) Tx. Mountain Laurel, (5) Yaupon Holly | |

TOTAL PROPOSED CANOPY 5,873 SF

TOTAL PROPOSED CANOPY 7.5%

TOTAL CANOPY PROVIDED 26,323 SF

TOTAL CANOPY PROVIDED 33.5%

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Stamp



Revisions

- 1
- 2
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- 5

Date
11 JANUARY 2023

Phase
95% CONSTRUCTION DOCUMENTS
Job Number
CN05701

Scale
0 8' 16'
1/8" = 1'-0"

Drawing Title
TREE PROTECTION AND MITIGATION PLAN

Drawing Number

L1.01



TREE REMOVAL KEY

| SYMBOL | DESCRIPTION |
|--------|---|
| | TREE TO BE PRESERVED |
| | TREE TO BE REMOVED TO BE REMOVED UNDER HISTORIAN OVERSIGHT; REFER TO TREE REMOVAL NOTES |
| | TREE TO BE RELOCATED UNDER HISTORIAN OVERSIGHT; REF. NOTES |
| | LOCATION OF MOVED TREE; INSTALL UNDER HISTORIAN OVERSIGHT; REF. NOTES |

- NOTES:
1. TREE 101 TO BE RELOCATED WITHIN SCOPE OF WORK AS INDICATED ON PLAN
 2. ALL OTHER TREES TO BE RELOCATED OUTSIDE LIMIT OF WORK, BUT WITHIN GREATER BRACKENRIDGE PARK

| HISTORIC STRUCTURES PROTECT TO IN PLACE | |
|--|---|
| SYMBOL | DESCRIPTION |
| H01 | STONE COBBLE WALL; CONTRACTOR TO CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF DEMOLITION WORK |
| H02 | CONCRETE STAIRS AND STONE COBBLE STAIR WALLS |
| H03 | PUMP HOUSE |
| H04 | STONE MASONRY PUMP HOUSE CHEEK WALLS |
| H05 | STONE "BENCH" AT LARGE LAMBERT BEACH STAIR; CONTRACTOR TO CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF DEMOLITION WORK |
| H06 | ORIGINAL STONE STEPS AND LANDING AT LARGE LAMBERT BEACH STAIR; CONTRACTOR TO CONFIRM EXTENTS IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF DEMOLITION WORK |
| H06 | CONCRETE RIVER CHANNEL WALK AND SUBMERGED WALLS |
| H07 | SUBMERGED CONCRETE STEPS ("FLOATING STAIRS") TO BE PROTECTED IN PLACE |

| DEMOLITION SCHEDULE | |
|---------------------|---|
| SYMBOL | DESCRIPTION |
| D01 | NOT USED |
| D02 | REMOVE CONCRETE CURB; CONCRETE TO BE SAWCUT 12 IN AWAY FROM HISTORIC STRUCTURE. REMAINING 12 IN OF CONCRETE ADJACENT TO HISTORIC STRUCTURE TO BE REMOVED BY HAND |
| D03 | REMOVE CONCRETE UNIT PAVERS AND ASSOCIATED CONCRETE SUBBASE; PAVERS TO BE CLEANED AND STORED ON SITE FOR USE IN REPLACEMENT OF DAMAGED PAVERS DURING CONSTRUCTION |
| D04 | REMOVE CONCRETE STEP; SAW CUTS TO BE CLEAN AND REMAINING EDGES ORTHOGONAL AND VISUALLY PLEASING |
| D05 | REMOVE CONCRETE PAVING; ENSURE SAW CUTS ARE CLEAN AND ORTHOGONAL; EXTREME CARE TO BE EXERCISED ADJACENT TO EXISTING STRUCTURES AND HISTORIC RESOURCES |
| D06 | REMOVE STONE CLAD WALL; PORTION INDICATED TO BE PROTECTED IN PLACE; CONTRACTOR TO CONFIRM EXTENTS OF DEMOLITION IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING WORK |
| D07 | SELECTIVELY DEMOLISH LARGE STONE STAIR; HISTORIC PORTIONS INDICATED TO BE PROTECTED IN PLACE; STONE FROM WALL TO BE SALVAGED, CLEANED AND STORED ON SITE FOR USE IN RECONSTRUCTION OF STONE WALLS |
| D08 | CONCRETE PAVING AT RIVER CHANNEL WALK TO BE REMOVED; CONTRACTOR TO EXERCISE EXTREME CARE IN DEMOLITION AS TO NOT DAMAGE SUBMERGED STONE RIVER CHANNEL WALL BELOW |
| D09 | WET WELL SUMP, VAULT, AND WATER PUMP TO BE REMOVED |
| D10 | LITTER RECEPTACLE TO BE REMOVED AND TRANSFERRED TO THE CITY OF SAN ANTONIO PARKS DEPARTMENT |
| D11 | UTILITY VAULT, METER AND CONDUIT TO BE REMOVED REFER TO CIVIL |
| D12 | INFORMATION SIGNAGE TO BE REMOVED AND TRANSFERRED TO THE CITY OF SAN ANTONIO PARKS DEPARTMENT |
| D13 | CHAIN LINK FENCE TO BE REMOVED |

| TREE REMOVAL KEY | |
|------------------|----------------------|
| SYMBOL | DESCRIPTION |
| | TREE TO BE PRESERVED |
| | TREE TO BE REMOVED |
| | TREE TO BE RELOCATED |

REFER TO TREE MITIGATION PLANS AND SCHEDULES



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Revisions

ADDENDUM 01 03/10/2023

Date

11 JANUARY 2023

Phase

95% CONSTRUCTION DOCUMENTS

Job Number

CN05701

Scale

0 8' 16'
1/8" = 1'-0"

Drawing Title

DEMOLITION PLAN

Drawing Number

L2.01

BRACKENRIDGE PARK

SAN ANTONIO, TX

CLIENT:
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SEVENTH GENERATION DESIGN

HISTORIC ARCHITECT
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SAN ANTONIO TX, 78208

WGI ENGINEERING

HYDROLOGY
5710 W HAUSMAN RD,
SAN ANTONIO, TX 78249

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Revisions

- 1 . . .
- 2 . . .
- 3 . . .
- 4 . . .
- 5 . . .

Date

11 JANUARY 2023

Phase

95% CONSTRUCTION DOCUMENTS

Job Number

CN05701

Scale

North

Drawing Title

LAYOUT AND MATERIALS SCHEDULE

Drawing Number

L3.00

PAVING SCHEDULE (P)

| SYMBOL | KEY | DESCRIPTION | SUPPLIER | MATERIAL | SIZE | COLOR | FINISH | REMARK | DETAIL |
|--------|-----|---|---|--|------|------------------------------|---|--|--------------|
| | P01 | STONE COBBLE PAVING AT LARGE STAIR LANDING | ALAMO STONE OR APPROVED EQUAL; LATICRETE 3701 OR APPROVED EQUAL | LIMESTONE | - | CHAMPAGNE / WEST TEXAS CREAM | COBBLE FINISH TO APPROXIMATE HISTORIC STONE; REFER TO WALL DETAILS | - | 02, 03/L4.05 |
| | P02 | STONE COBBLE TRANSITION AT LARGE STAIR HISTORIC "BENCH" | ALAMO STONE OR APPROVED EQUAL; LATICRETE 3701 OR APPROVED EQUAL | LIMESTONE | - | CHAMPAGNE / WEST TEXAS CREAM | COBBLE FINISH TO APPROXIMATE HISTORIC STONE; REFER TO WALL DETAILS | - | 06/L4.03 |
| | P03 | CONCRETE UNIT PAVERS ON STABILIZED SAND BED | - | EXISTING SALVAGED CONCRETE UNIT PAVERS | - | - | - | IF SALVAGED PAVERS ARE NOT FEASIBLE, REPLACEMENT TO MATCH EXISTING | 04/L4.01 |
| | P04 | PORTLAND GRAY PEDESTRIAN RATED CONCRETE PAVING | - | CONCRETE | - | NATURAL GRAY | MEDIUM BROOM FINISH | REFER TO CIVIL FOR REINFORCEMENT THICKNESS, AND SUBBASE DESIGN | 01/L4.01 |
| | P05 | INTEGRAL COLOR PEDESTRIAN RATED CONCRETE PAVING | SIKA/SCOFIELD; TOPCAST | INTEGRAL COLOR CONCRETE | - | U-22 SALT MARSH GRAY | TOPCAST SURFACE RETARDER; EXTENT OF RETARDER TO BE DETERMINED AT MOCK UP REVIEW | REFER TO CIVIL FOR REINFORCEMENT THICKNESS, AND SUBBASE DESIGN | 01/L4.01 |
| | P06 | PORTLAND GRAY CONCRETE CURB | - | CONCRETE | - | NATURAL GRAY | - | - | REF. CIVIL |

AMENITY SCHEDULE (A)

| KEY | DESCRIPTION | MATERIAL | SUPPLIER | SIZE | COLOR | FINISH | REMARK | DETAIL |
|-----|-------------------------------------|------------------|------------------|---|-------|--------|--------|----------------|
| A01 | BLACK VINYL COATED CHAIN LINK FENCE | GALVANIZED STEEL | BROSPER OR EQUAL | 2" MESH SIZE; 42" HIGH WITH 11 GAUGE WIRE | BLACK | - | - | - |
| A02 | LIFT STATION | - | - | - | - | - | - | REF. HYDROLOGY |

WALL SCHEDULE (W)

| KEY | DESCRIPTION | MATERIAL | SUPPLIER | SIZE | COLOR | FINISH | REMARK | DETAIL |
|------|---|--|---|--|---|---|------------------------------------|------------------|
| W01 | HISTORIC REHABILITATED WALL | STONE SALVAGED FROM SITE OR STOCKPILED LOCAL STONE APPEARANCE TO MATCH EXISTING ADJACENT HISTORIC STRUCTURES | EXISTING AND APPROVED HISTORIC STONE SALVAGE YARD | GENERAL SIZE AND APPEARANCE OF STONE TO MATCH ADJACENT EXISTANT HISTORIC WALLS | NATURAL; MATCH IN-KIND AND APPEARANCE TO HISTORIC STONE | MATCH FINISH TO HISTORIC STONE; REF. STONE SPECIFICATIONS FOR HISTORIC MORTAR | REF. HISTORIC STONE SPECIFICATIONS | REF. STONE SPECS |
| W02A | HISTORIC WALL RECONSTRUCTION A | STONE SALVAGED FROM SITE OR STOCKPILED LOCAL STONE APPEARANCE TO MATCH EXISTING ADJACENT HISTORIC STRUCTURES | EXISTING AND APPROVED HISTORIC STONE SALVAGE YARD | GENERAL SIZE AND APPEARANCE OF STONE TO MATCH ADJACENT EXISTANT HISTORIC WALLS | NATURAL; MATCH IN-KIND AND APPEARANCE TO HISTORIC STONE | MATCH FINISH TO HISTORIC STONE; REF. STONE SPECIFICATIONS FOR HISTORIC MORTAR | REF. HISTORIC STONE SPECIFICATIONS | 01/L4.04 |
| W02B | HISTORIC WALL RECONSTRUCTION B | STONE SALVAGED FROM SITE OR STOCKPILED LOCAL STONE APPEARANCE TO MATCH EXISTING ADJACENT HISTORIC STRUCTURES | EXISTING AND APPROVED HISTORIC STONE SALVAGE YARD | GENERAL SIZE AND APPEARANCE OF STONE TO MATCH ADJACENT EXISTANT HISTORIC WALLS | NATURAL; MATCH IN-KIND AND APPEARANCE TO HISTORIC STONE | MATCH FINISH TO HISTORIC STONE; REF. STONE SPECIFICATIONS FOR HISTORIC MORTAR | REF. HISTORIC STONE SPECIFICATIONS | 02/L4.04 |
| W03 | NEW STONE WALL WITH COBBLE AND CONCRETE REINFORCEMENT | LIMESTONE | ALAMO STONE OR APPROVED EQUAL; LATICRETE 3701 OR APPROVED EQUAL | NEW STONE TO BE SAME SIZE RANGE AS HISTORIC WALL MASONRY | CHAMPAGNE / WEST TEXAS CREAM | FINISH TO MATCH ADJACENT HISTORIC STONE; REFER TO DETAILS | - | 03/L4.04 |
| W04 | REHABILITATED HISTORIC STONE STEPS AT LARGE LAMBERT BEACH STAIR | STONE SALVAGED FROM SITE OR STOCKPILED LOCAL STONE APPEARANCE TO MATCH EXISTING ADJACENT HISTORIC STRUCTURES | EXISTING AND APPROVED HISTORIC STONE SALVAGE YARD | GENERAL SIZE AND APPEARANCE OF STONE TO MATCH ADJACENT EXISTANT HISTORIC WALLS | NATURAL; MATCH IN-KIND AND APPEARANCE TO HISTORIC STONE | MATCH FINISH TO HISTORIC STONE; REF. STONE SPECIFICATIONS FOR HISTORIC MORTAR | REF. HISTORIC STONE SPECIFICATIONS | 04/L4.03 |
| W05 | REHABILITATED HISTORIC STONE "BENCH" AT LAMBERT BEACH STONE STAIR | STONE SALVAGED FROM SITE OR STOCKPILED LOCAL STONE APPEARANCE TO MATCH EXISTING ADJACENT HISTORIC STRUCTURES | EXISTING AND APPROVED HISTORIC STONE SALVAGE YARD | GENERAL SIZE AND APPEARANCE OF STONE TO MATCH ADJACENT EXISTANT HISTORIC WALLS | NATURAL; MATCH IN-KIND AND APPEARANCE TO HISTORIC STONE | MATCH FINISH TO HISTORIC STONE; REF. STONE SPECIFICATIONS FOR HISTORIC MORTAR | REF. HISTORIC STONE SPECIFICATIONS | 05/L4.03 |

STAIR SCHEDULE (S)

| KEY | DESCRIPTION | MATERIAL | SUPPLIER | SIZE | COLOR | FINISH | REMARK | DETAIL |
|-----|---|--|---|--|---|--|------------------------------------|------------------|
| S01 | REHABILITATED HISTORIC CONCRETE STAIRS AND STONE COBBLE STAIR WALLS | STONE SALVAGED FROM SITE OR STOCKPILED LOCAL STONE APPEARANCE TO MATCH EXISTING ADJACENT HISTORIC STRUCTURES | EXISTING AND APPROVED HISTORIC STONE SALVAGE YARD | GENERAL SIZE AND APPEARANCE OF STONE TO MATCH ADJACENT EXISTANT HISTORIC WALLS | NATURAL; MATCH IN-KIND AND APPEARANCE TO HISTORIC STONE | MATCH IN FINISH TO HISTORIC STONE; REF. STONE SPECIFICATIONS FOR HISTORIC MORTAR | REF. HISTORIC STONE SPECIFICATIONS | REF. STONE SPECS |
| S02 | NEW STONE COBBLE STAIRS ON CONCRETE FOUNDATION | LIMESTONE | ALAMO STONE OR APPROVED EQUAL; LATICRETE 3701 OR APPROVED EQUAL | - | CHAMPAGNE / WEST TEXAS CREAM | FINISH TO MATCH ADJACENT HISTORIC STONE; REFER TO DETAILS | - | 01/L4.05 |
| S03 | PORTLAND GRAY CONCRETE STAIRS | CONCRETE | - | - | NATURAL GRAY | - | - | 05/L4.01 |
| S04 | REHABILITATED HISTORIC MASONRY STAIRS | STONE SALVAGED FROM SITE OR STOCKPILED LOCAL STONE APPEARANCE TO MATCH EXISTING ADJACENT HISTORIC STRUCTURES | EXISTING AND APPROVED HISTORIC STONE SALVAGE YARD | GENERAL SIZE AND APPEARANCE OF STONE TO MATCH ADJACENT EXISTANT HISTORIC WALLS | NATURAL; MATCH IN-KIND AND APPEARANCE TO HISTORIC STONE | MATCH IN FINISH TO HISTORIC STONE; REF. STONE SPECIFICATIONS FOR HISTORIC MORTAR | REF. HISTORIC STONE SPECIFICATIONS | REF. STONE SPECS |

NOTES:
1. CONTRACTOR TO COORDINATE AN ON SITE MEETING BETWEEN CLIENT AND DESIGN TEAM PRIOR TO THE COMMENCE OF WORK. MEETING TO CONFIRM THE FOLLOWING:
- EXTENTS AND METHODS OF DEMOLITION AND DISMANTLING
- THE APPLICATION OF APPROPRIATE SPECIFICATIONS TO EACH AREA AND STRUCTURE
2. ALL NEW CONCRETE PAVING AND FOUNDATIONS ADJACENT TO HISTORIC STRUCTURES TO HAVE AN EXPANSION JOINT BETWEEN THE STRUCTURE AND THE NEW CONCRETE
3. ALL HISTORIC AND EXISTING STRUCTURES TO BE CLEANED; REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
4. CONTRACTOR AND DESIGN TEAM TO ASSESS CONDITION OF STRUCTURES BELOW WATER LINE DURING DEWATERING CONTRACTOR TO PROVIDE UNIT COSTS FOR THE REPAIR OF HISTORIC STRUCTURES THAT INCLUDE:
- CONCRETE RIVER CHANNEL BOTTOM
- CONCRETE RIVER CHANNEL WALLS
- MASONRY RIVER CHANNEL WALLS
- MASONRY WEIR WALL
- CONCRETE WALL AT "KIDDIE" POOL EDGE
- MISC MASONRY SITE WALLS
5. REFER TO SPECIFICATIONS FOR GUIDELINES ON REHABILITATION OF HISTORIC STRUCTURES
6. REFER TO MOCK UP SCHEDULE FOR LIST OF REQUIRED MOCKUPS
7. REFER GENERAL CONSTRUCTION NOTES ON SHEET L0.02 AND TREE PROTECTION NOTES ON SHEET L0.03 PRIOR TO ANY SITE WORK
8. ALL CONCRETE FLATWORK TO REFERENCE LANDSCAPE AND CIVIL SPECIFICATIONS. ALL STRUCTURAL CONCRETE TO REFERENCE STRUCTURAL SPECIFICATIONS

MOCK-UP SCHEDULE

| KEY | DESCRIPTION | MOCK-UP SIZE | APPROVALS REQUIRED | REMARK |
|------|---|-----------------------------------|--|--|
| P01 | STONE COBBLE PAVING AT LARGE STAIR LANDING | 5' x 5' | LANDSCAPE ARCHITECT, CLIENT GROUP, REGULATORY AGENCIES | LIMESTONE PAVING AND MORTAR; PROVIDE MORTAR SAMPLES |
| P04 | PORTLAND GRAY PEDESTRIAN RATED CONCRETE PAVING | 5' x 5' | LANDSCAPE ARCHITECT, CLIENT GROUP, REGULATORY AGENCIES | PROVIDE MOCK UP WITH FINISH, AS WELL AS AN EXPANSION JOINT AND CONTROL JOINT |
| P05 | INTEGRAL COLOR PEDESTRIAN RATED CONCRETE PAVING | 5' x 5' | LANDSCAPE ARCHITECT, CLIENT GROUP | CONTRACTOR TO DIVIDE INTEGRAL COLOR MOCK UP INTO QUARTERS AND PROVIDE THE FOLLOWING TOP CAST FINISHES: 03 LIGHT VIOLET, 05 POWDER BLUE VIOLET, AND 15 YELLOW |
| W02A | HISTORIC WALL RECONSTRUCTION A | 6'H X 6'W | LANDSCAPE ARCHITECT, CLIENT GROUP, REGULATORY AGENCIES | STONE AND HISTORIC MORTAR |
| W02B | HISTORIC WALL RECONSTRUCTION B | 6'H X 6'W | LANDSCAPE ARCHITECT, CLIENT GROUP, REGULATORY AGENCIES | STONE AND HISTORIC MORTAR |
| W03 | NEW STONE WALL WITH COBBLE AND CONCRETE REINFORCEMENT | 6'H X 6'W | LANDSCAPE ARCHITECT, CLIENT GROUP, REGULATORY AGENCIES | STONE AND LATICRETE MORTAR |
| S02 | NEW STONE COBBLE STAIRS ON CONCRETE FOUNDATION | 2 LANDINGS AND 1 RISER AT 5' WIDE | LANDSCAPE ARCHITECT, CLIENT GROUP, REGULATORY AGENCIES | STONE AND LATICRETE MORTAR |

PAVING SCHEDULE (P)

| SYMBOL | KEY | DESCRIPTION |
|--------|-----|---|
| | P01 | STONE COBBLE PAVING AT LARGE STAIR LANDING |
| | P02 | STONE COBBLE TRANSITION AT LARGE STAIR HISTORIC "BENCH" |
| | P03 | CONCRETE UNIT PAVERS ON STABILIZED SAND BED |
| | P04 | PORTLAND GRAY PEDESTRIAN RATED CONCRETE PAVING |
| | P05 | INTEGRAL COLOR PEDESTRIAN RATED CONCRETE PAVING |
| | P06 | PORTLAND GRAY CONCRETE CURB |

AMENITY SCHEDULE (A)

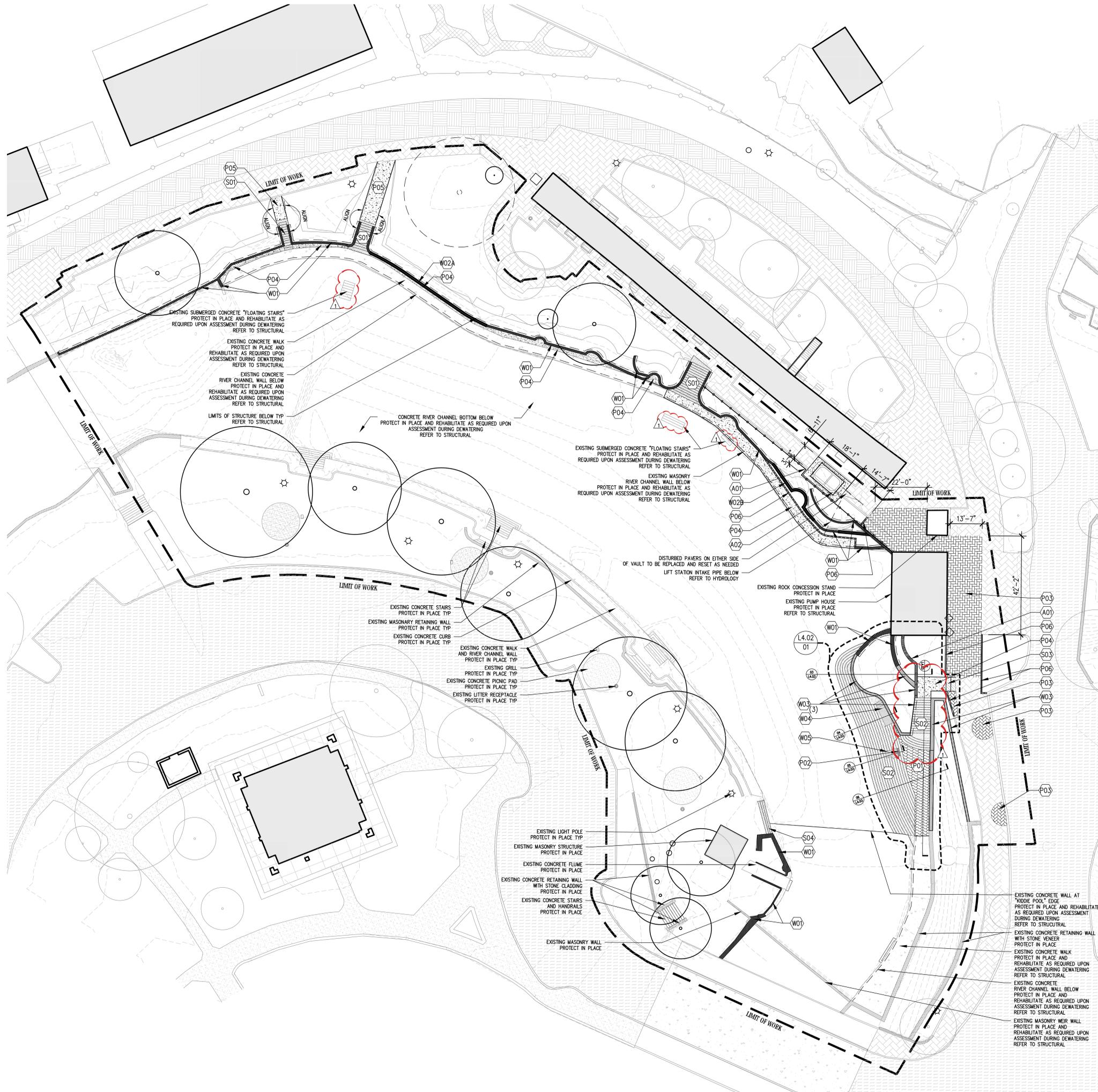
| KEY | DESCRIPTION |
|-----|-------------------------------------|
| A01 | BLACK VINYL COATED CHAIN LINK FENCE |
| A02 | LIFT STATION |

WALL SCHEDULE (W)

| KEY | DESCRIPTION |
|------|---|
| W01 | HISTORIC REHABILITATED WALL |
| W02A | HISTORIC WALL RECONSTRUCTION A |
| W02B | HISTORIC WALL RECONSTRUCTION B |
| W03 | NEW STONE WALL WITH COBBLE AND CONCRETE REINFORCEMENT |
| W04 | REHABILITATED HISTORIC STONE STEPS AT LARGE LAMBERT BEACH STAIR |
| W05 | REHABILITATED HISTORIC STONE "BENCH" AT LAMBERT BEACH STONE STAIR |

STAIR SCHEDULE (S)

| KEY | DESCRIPTION |
|-----|---|
| S01 | REHABILITATED HISTORIC CONCRETE STAIRS AND STONE COBBLE STAIR WALLS |
| S02 | NEW STONE COBBLE STAIRS ON CONCRETE FOUNDATION |
| S03 | PORTLAND GRAY CONCRETE STAIRS |
| S04 | REHABILITATED HISTORIC MASONRY STAIRS |



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Stamp



Revisions

ADDENDUM 01 03/10/2023

Date

11 JANUARY 2023

Phase

95% CONSTRUCTION DOCUMENTS

Job Number

CN05701

Scale

0 8' 16'

1/4" = 1'-0"

Drawing Title

LAYOUT AND MATERIALS PLAN

Drawing Number

L3.01

L3.01

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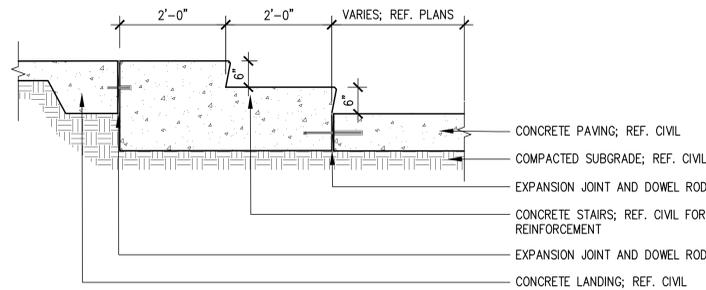
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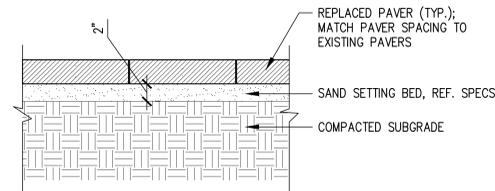
MEP
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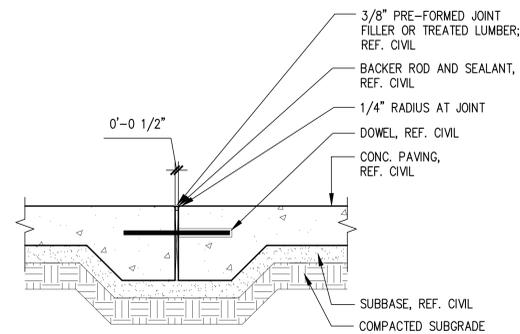
HYDROLOGY
5710 W HAUSMAN RD,
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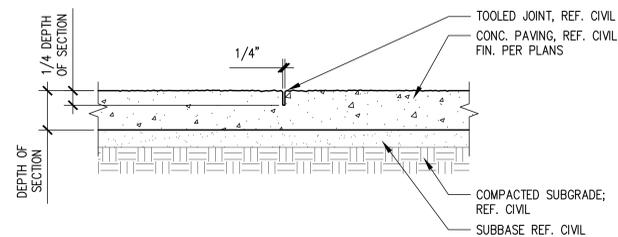
05 SECTION - (S03) CONCRETE STAIRS
3/4" = 1'-0"



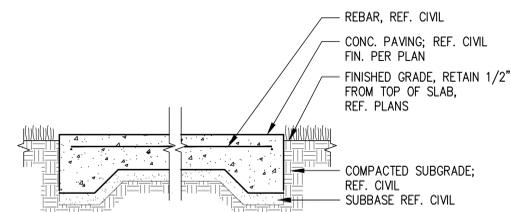
04 SECTION - DISTURBED PAVER REPLACEMENT DETAIL
1 1/2" = 1'-0"



03 SECTION - CONCRETE EXPANSION JOINT
1 1/2" = 1'-0"



02 SECTION - TOOLED CONTROL JOINT
1 1/2" = 1'-0"



01 SECTION - TYPICAL CONCRETE PAVING
1" = 1'-0"

Stamp



Revisions

- 1 . . .
- 2 . . .
- 3 . . .
- 4 . . .
- 5 . . .

Date

11 JANUARY 2023

Phase

95% CONSTRUCTION DOCUMENTS

Job Number

CN05701

Scale

North

Drawing Title

HARDSCAPE DETAILS

Drawing Number

L4.01

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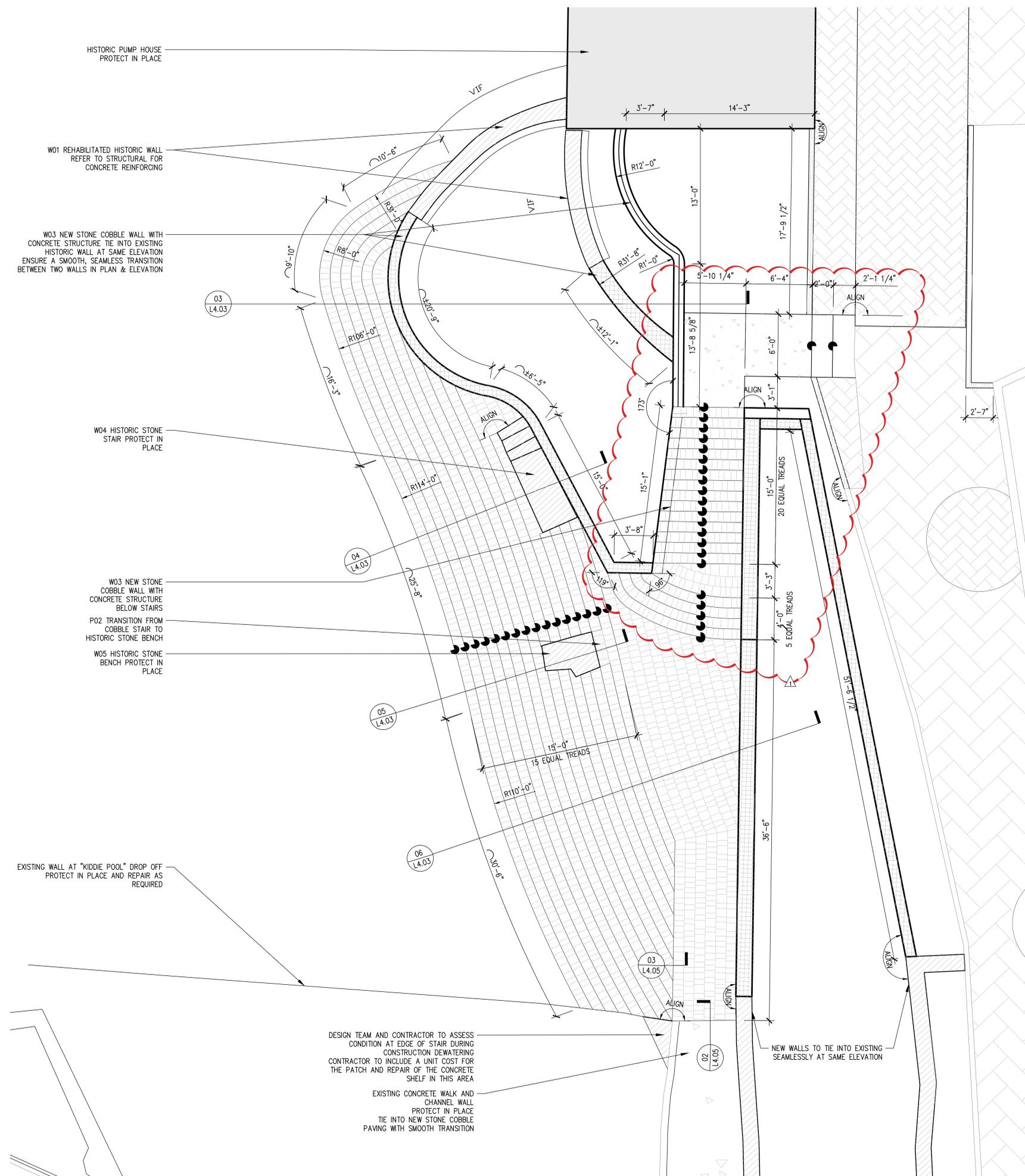
Drawing Title

HARDSCAPE DETAILS

Drawing Number

L4.02

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- HISTORIC PUMP HOUSE
PROTECT IN PLACE
- W01 REHABILITATED HISTORIC WALL
REFER TO STRUCTURAL FOR
CONCRETE REINFORCING
- W03 NEW STONE COBBLE WALL WITH
CONCRETE STRUCTURE TIE INTO EXISTING
HISTORIC WALL AT SAME ELEVATION
ENSURE A SMOOTH, SEAMLESS TRANSITION
BETWEEN TWO WALLS IN PLAN & ELEVATION
- W04 HISTORIC STONE
STAIR PROTECT IN
PLACE
- W03 NEW STONE
COBBLE WALL WITH
CONCRETE STRUCTURE
BELOW STAIRS
- P02 TRANSITION FROM
COBBLE STAIR TO
HISTORIC STONE BENCH
- W05 HISTORIC STONE
BENCH PROTECT IN
PLACE
- EXISTING WALL AT "KIDDIE POOL" DROP OFF
PROTECT IN PLACE AND REPAIR AS
REQUIRED

- DESIGN TEAM AND CONTRACTOR TO ASSESS
CONDITION AT EDGE OF STAIR DURING
CONSTRUCTION DEWATERING
CONTRACTOR TO INCLUDE A UNIT COST FOR
THE PATCH AND REPAIR OF THE CONCRETE
SHELF IN THIS AREA
- EXISTING CONCRETE WALK AND
CHANNEL WALL
PROTECT IN PLACE
TIE INTO NEW STONE COBBLE
PAVING WITH SMOOTH TRANSITION
- NEW WALLS TO TIE INTO EXISTING
SEAMLESSLY AT SAME ELEVATION

01 PLAN ENLARGEMENT – LAMBERT BEACH STAIRS
1/4" = 1'-0"

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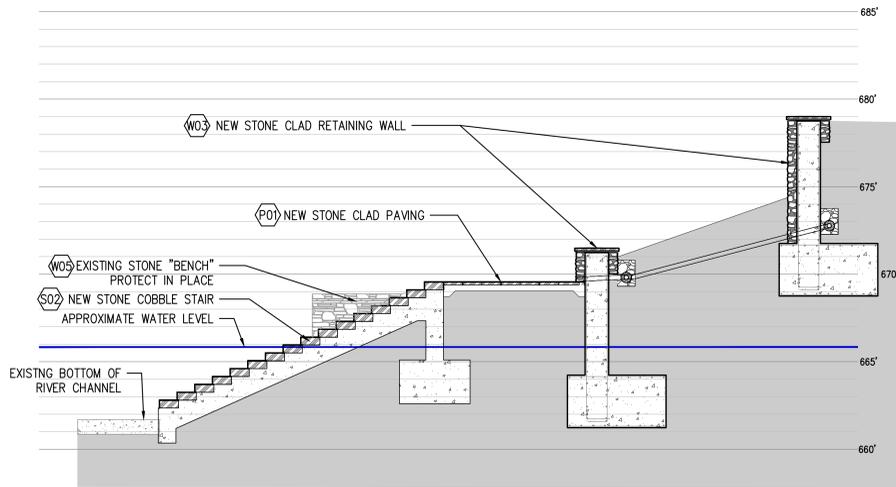
Scale North

Drawing Title

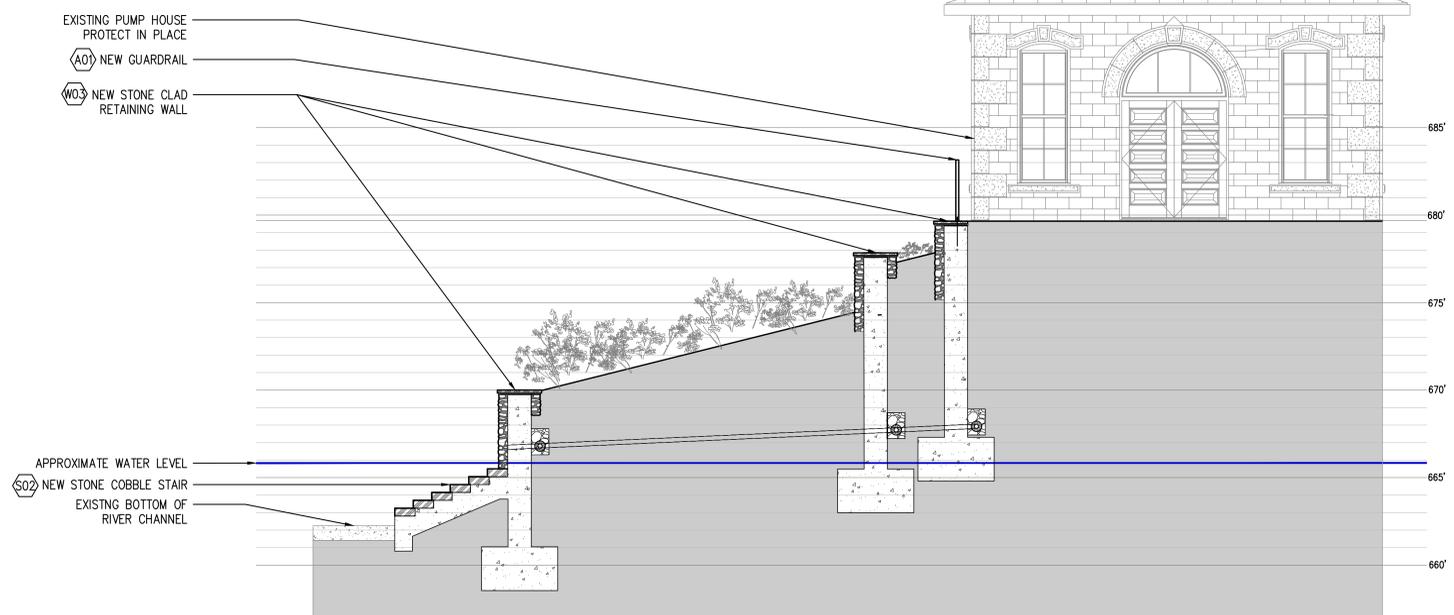
HARDSCAPE DETAILS

Drawing Number

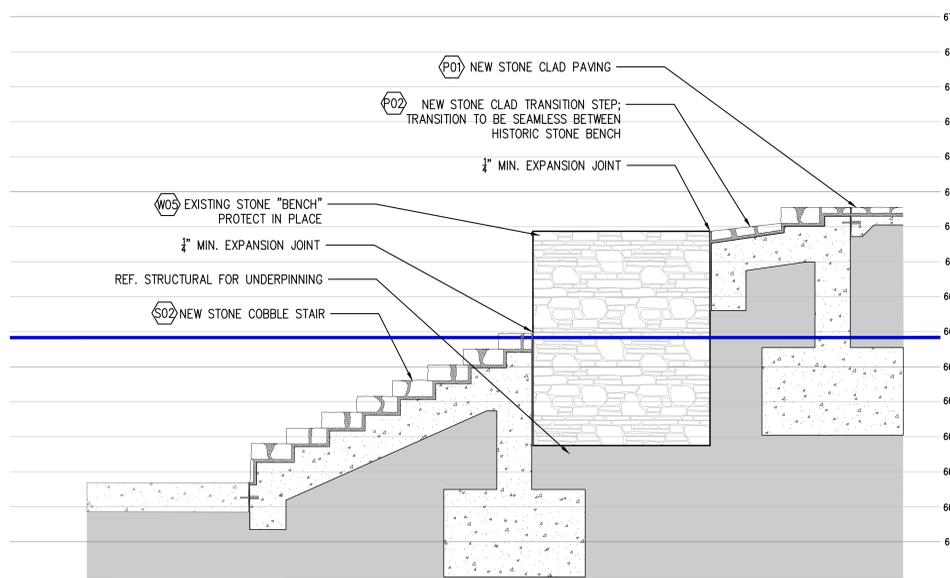
L4.03



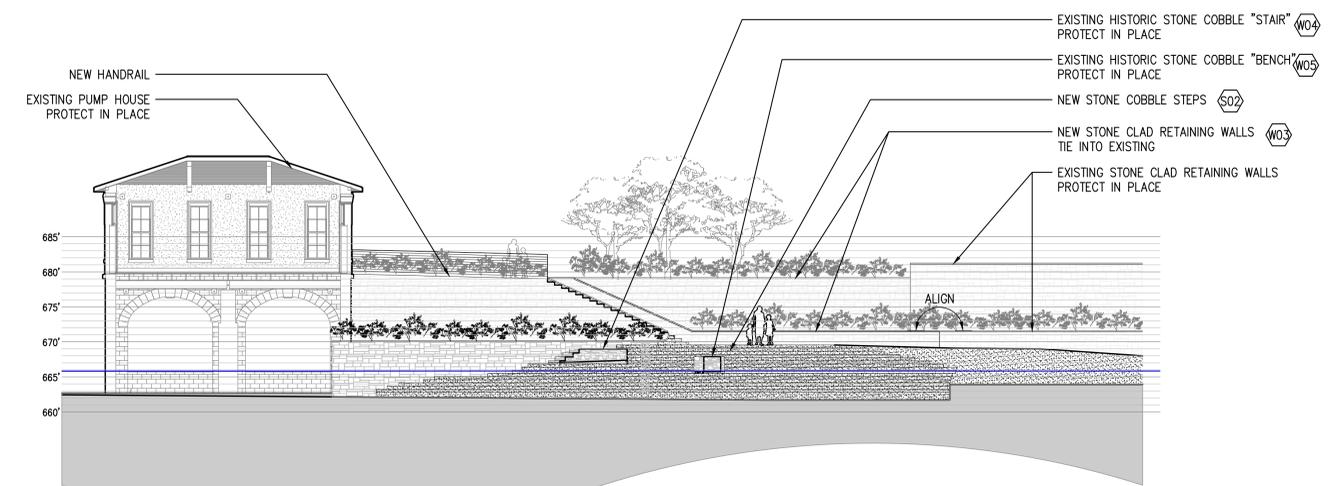
07 SECTION – LAMBERT BEACH STAIR AT STONE LANDING
1/4" = 1'-0"



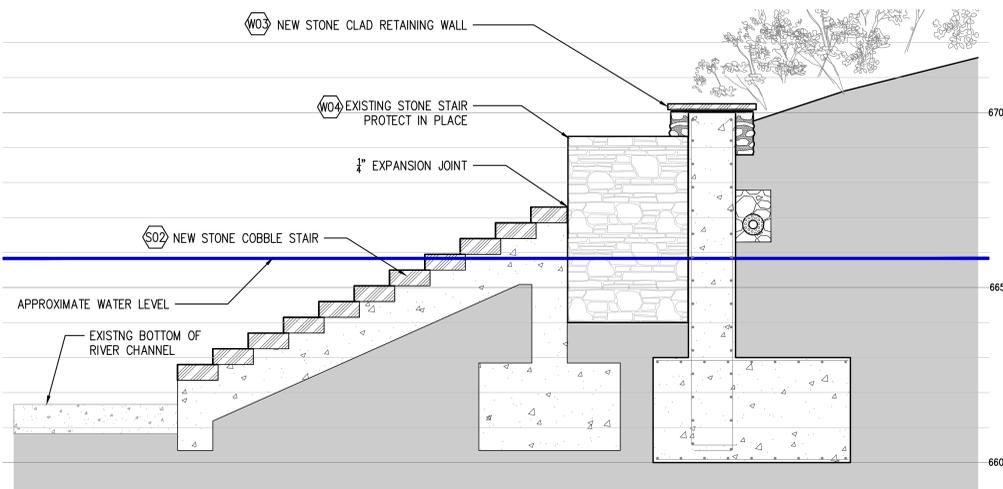
03 SECTION – LAMBERT BEACH STAIR AT PLANTER
1/4" = 1'-0"



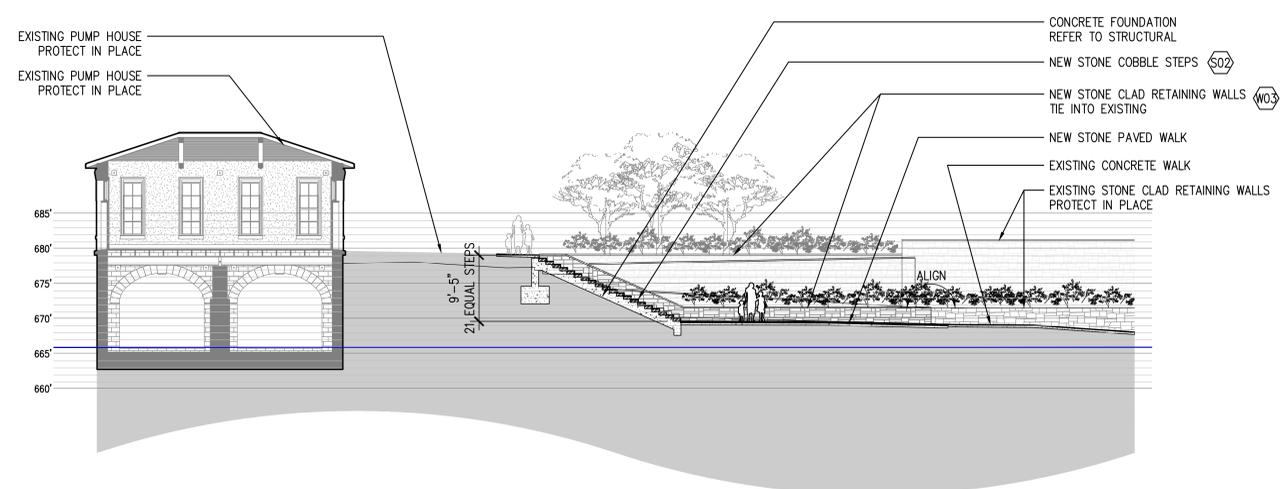
06 SECTION ENLARGEMENT – LAMBERT BEACH STAIR AT HISTORIC STONE BENCH
1/2" = 1'-0"



02 ELEVATION – LAMBERT BEACH STAIR
1" = 10'



04 SECTION – LAMBERT BEACH STAIR AT HISTORIC STONE STAIR
1/2" = 1'-0"



01 SECTION – LAMBERT BEACH STAIR
1" = 10'

BRACKENRIDGE PARK

SAN ANTONIO, TX

CLIENT:
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WGI ENGINEERING

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SAN ANTONIO, TX 78249

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Revisions

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- 3 . . .
- 4 . . .
- 5 . . .

Date
11 JANUARY 2023

Phase
95% CONSTRUCTION DOCUMENTS
Job Number
CN05701

Scale North

Drawing Title

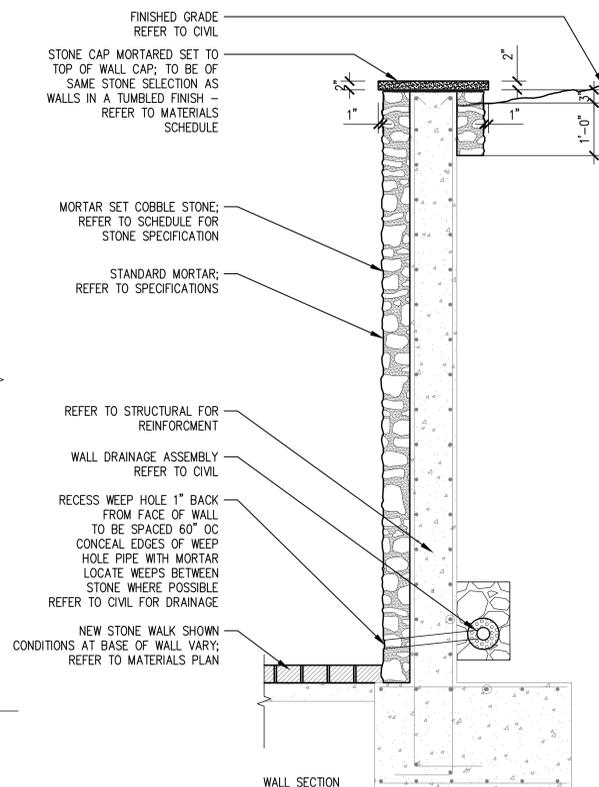
HARDSCAPE DETAILS

Drawing Number

L4.04

NOTES:

1. REFER TO GENERAL NOTES ON SHEET L0.02.
2. REFER TO HISTORIC STONE SPECIFICATIONS FOR TREATMENT OF ADJACENT HISTORIC WALLS.
3. CONTRACTOR TO PROVIDE OF MOCK UP OF WALLS FOR DESIGN TEAM, CLIENT, AND REGULATORY APPROVAL.
4. NEW STONE SHALL BE SIMILAR IN SHAPE, SIZE, AND FINISH OF ADJACENT HISTORIC STONE.
5. REFER TO SPECIFICATIONS FOR STANDARD MORTAR APPLICATION.



0 6" 12"
3/4" = 1'-0"

REPRESENTATIVE STONE ELEVATION

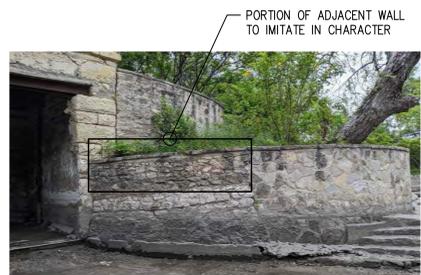


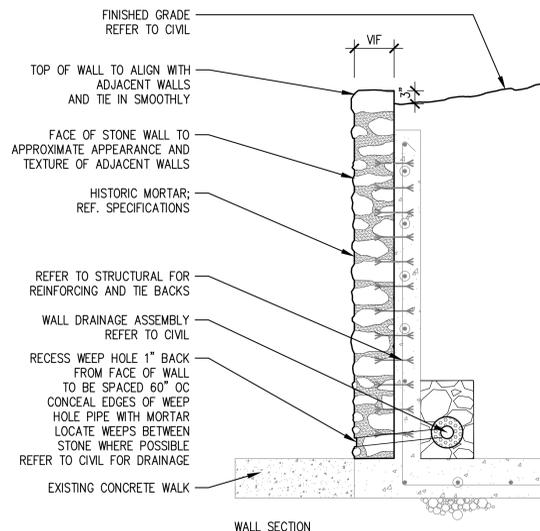
PHOTO OF ADJACENT CONDITION TO IMITATE

03 DETAILS - (W03) NEW STONE WALL WITH COBBLE AND CONC. REINFORCEMENT

3/4" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES ON SHEET L0.02.
2. REFER TO HISTORIC STONE SPECIFICATIONS FOR TREATMENT OF HISTORIC WALLS INCLUDING REPAIR/REPOINTING, REMOVAL AND DISMANTLING, MORTAR, AND CLEANING.
3. CONTRACTOR TO PROVIDE OF MOCK UP OF WALLS FOR DESIGN TEAM, CLIENT, AND REGULATORY APPROVAL.
4. ALL DETERIORATED STONE FROM EXISTING STONE IS TO BE SALVAGED PER MASONRY SPECIFICATIONS FOR RE-USE IN WALL REHABILITATION.
5. ANY ADDITIONAL STONE ASIDE FROM SALVAGED STONE REQUIRED IN REHABILITATED WALLS TO BE SAME IN KIND, SIZE, FINISH, AND APPEARANCE AS EXISTING HISTORIC MASONRY.
6. CONTRACTOR TO ENSURE ALL TIE BACKS AND REINFORCEMENTS ARE INSTALLED IN MORTAR JOINTS RATHER THAN MASONRY TO MINIMIZE DAMAGE TO HISTORIC MATERIAL.



0 6" 12"
3/4" = 1'-0"

REPRESENTATIVE STONE ELEVATION



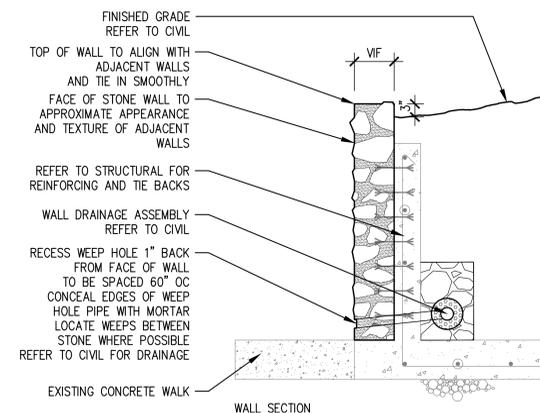
PHOTO OF ADJACENT CONDITION TO IMITATE

02 DETAIL - (W02B) HISTORIC WALL RECONSTRUCTION B

3/4" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES ON SHEET L0.02.
2. REFER TO HISTORIC STONE SPECIFICATIONS FOR TREATMENT OF HISTORIC WALLS INCLUDING REPAIR/REPOINTING, REMOVAL AND DISMANTLING, MORTAR, AND CLEANING.
3. CONTRACTOR TO PROVIDE OF MOCK UP OF WALLS FOR DESIGN TEAM, CLIENT, AND REGULATORY APPROVAL.
4. ALL DETERIORATED STONE FROM EXISTING STONE IS TO BE SALVAGED PER MASONRY SPECIFICATIONS FOR RE-USE IN WALL REHABILITATION.
5. ANY ADDITIONAL STONE ASIDE FROM SALVAGED STONE REQUIRED IN REHABILITATED WALLS TO BE SAME IN KIND, SIZE, FINISH, AND APPEARANCE AS EXISTING HISTORIC MASONRY.
6. CONTRACTOR TO ENSURE ALL TIE BACKS AND REINFORCEMENTS ARE INSTALLED IN MORTAR JOINTS RATHER THAN MASONRY TO MINIMIZE DAMAGE TO HISTORIC MATERIAL.



0 6" 12"
3/4" = 1'-0"

REPRESENTATIVE STONE ELEVATION



PHOTO OF DETERIORATED WALL

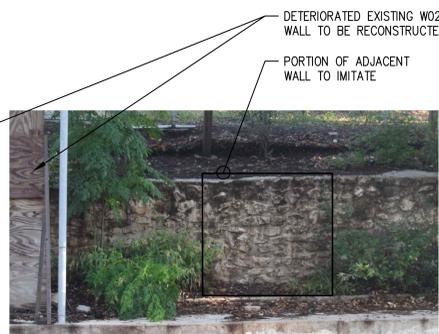


PHOTO OF ADJACENT CONDITION TO IMITATE

01 DETAIL - (W02A) HISTORIC WALL RECONSTRUCTION A

3/4" = 1'-0"

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SAN ANTONIO, TX 78249

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11 JANUARY 2023

Phase
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CN05701

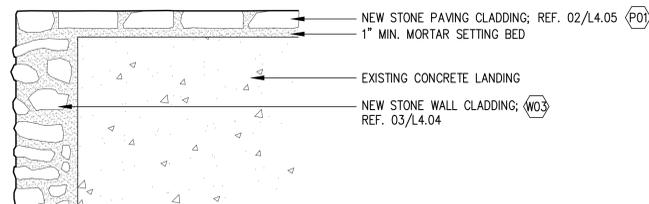
Scale North

Drawing Title

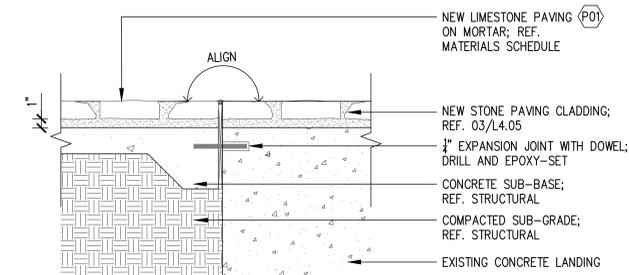
HARDSCAPE DETAILS

Drawing Number

L4.05



03 SECTION – STONE CLADDING AT EXISTING CONCRETE LANDING
1 1/2" = 1'-0"



02 SECTION – NEW STONE LANDING AT EXISTING CONCRETE LANDING
1 1/2" = 1'-0"

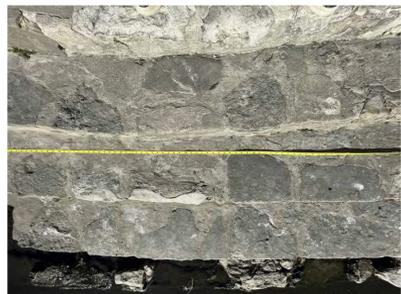
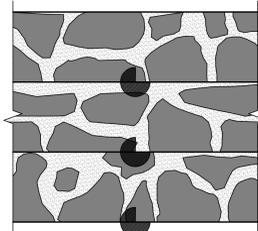
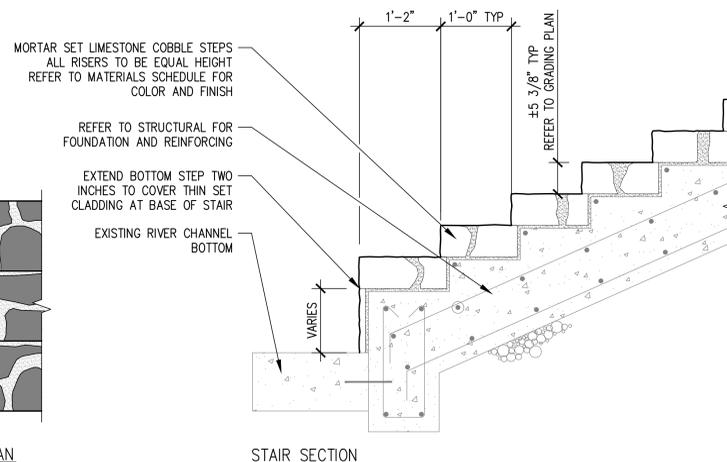


PHOTO OF CONDITION TO IMITATE



REPRESENTATIVE STONE PLAN



STAIR SECTION

NOTES:

1. REFER TO GENERAL NOTES ON SHEET L0.02.
2. REFER TO PLAN FOR EXISTING HISTORIC STEPS TO REMAIN.
3. REFER TO SPECIFICATIONS FOR TREATMENT OF ADJACENT HISTORIC STRUCTURES.
4. HISTORIC STONE MASON TO PROVIDE MOCK UPS OF EACH STAIR TYPE PRIOR TO INSTALLATION FOR LANDSCAPE ARCHITECT, ARCHITECT, THC, AND OHP APPROVAL.
5. NEW STONE SHALL BE SIMILAR IN SHAPE, SIZE, AND FINISH OF ADJACENT HISTORIC STONE.
6. REFER TO SPECIFICATIONS FOR STANDARD MORTAR APPLICATION.

01 DETAIL – (S02) LARGE LAMBERT BEACH STAIR DETAILS
1" = 1'-0"

BRACKENRIDGE PARK

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Date

11 JANUARY 2023

Phase

95% CONSTRUCTION DOCUMENTS

Job Number

CN05701

Scale

North

Drawing Title

PLANTING SCHEDULE

Drawing Number

L5.00

BRACKENRIDGE PLANTING SCHEDULE - PHASE 1

SHADE TREES

| SYM. | Botanical Name | Common Name | Quantity | Units | Size | Cal. | Height | Spread | Remarks | |
|------|---------------------------|-------------|----------|-------|------|----------|--------|---------|---------|------------------------------------|
| QVA | <i>Quercus virginiana</i> | Live Oak | - | 4 | EA | 200 gal. | 6" | 18'-20' | 20' | Central Leader, Symmetrical & Full |

ORNAMENTAL & SMALL TREES

| SYM. | Botanical Name | Common Name | Quantity | Units | Size | Cal. | Height | Spread | Remarks | |
|------|------------------------------|-------------------------|----------|-------|------|---------|--------|--------|---------|---------------------------------|
| ID | <i>Ilex decidua</i> 'Walter' | Possumhaw | - | 3 | EA | 45 gal. | 2 1/2" | 8-10' | 4-5' | Full plants rooted to container |
| IV | <i>Ilex vomitoria</i> | Yaupon Holly (Upright) | - | 5 | EA | 45 gal. | 2 1/2" | 8-10' | 4-5' | Full plants rooted to container |
| SP | <i>Sophora secundiflora</i> | Texas Mountain Laurel | - | 3 | EA | 45 gal. | 2 1/2" | 8-10' | 4-5' | Full plants rooted to container |
| VR | <i>Viburnum rufidulum</i> | Rusty Blackhaw Viburnum | - | 11 | EA | 45 gal. | 2 1/2" | 8-10' | 4-5' | Full plants rooted to container |

ORNAMENTAL MIX - A

| SYM. | Botanical Name | Common Name | % of mix | Quantity | Units | Size | Height | Spread | Spacing | Remarks | |
|------|--|-----------------------------|----------|----------|-------|--------|--------|--------|---------|---------------------------------|--|
| OMA | <i>Aristida purpurea</i> | Purple Threeawn | 15% | 330 | EA | 1 gal. | 18" | 18" | 18" | Full plants rooted to container | |
| | <i>Bouteloua gracilis</i> | Blue Grama | 10% | 222 | EA | 1 gal. | 18" | 18" | 18" | Full plants rooted to container | |
| | <i>Elymus canadensis</i> | Canada Wild Rye | 15% | 330 | EA | 1 gal. | 18" | 18" | 18" | Full plants rooted to container | |
| | <i>Malvastrum arboreus</i> | Turk's Cap | 15% | 187 | EA | 5 gal. | 24" | 24" | 24" | Full plants rooted to container | |
| | <i>Muhlenbergia lindheimeri</i> | Lindheimer's Muhly | 15% | 118 | EA | 1 gal. | 18" | 15" | 30" | Full plants rooted to container | |
| | <i>Panicum virgatum</i> 'Shenandoah' | Switchgrass 'Shenandoah' | 15% | 187 | EA | 1 gal. | 20" | 15" | 24" | Full plants rooted to container | |
| | <i>Schizachyrium scoparium</i> 'The Blues' | Little Bluestem 'The Blues' | 15% | 187 | EA | 1 gal. | 20" | 15" | 24" | Full plants rooted to container | |
| | | | | 100% | | | | | | | |

ORNAMENTAL MIX - B

| SYM. | Botanical Name | Common Name | % of mix | Quantity | Units | Size | Height | Spread | Spacing | Remarks |
|------|--|-----------------------------|----------|----------|-------|--------|--------|--------|---------|---------------------------------|
| OMB | <i>Bouteloua gracilis</i> | Blue Grama | 20% | 382 | EA | 1 gal. | 18" | 18" | 18" | Full plants rooted to container |
| | <i>Chasmanthium latifolium</i> | Inland Sea Oats | 15% | 160 | EA | 1 gal. | 15" | 12" | 24" | Full plants rooted to container |
| | <i>Elymus canadensis</i> | Canada Wild Rye | 15% | 285 | EA | 1 gal. | 18" | 18" | 18" | Full plants rooted to container |
| | <i>Muhlenbergia dumosa</i> | Bamboo Muhly | 10% | 45 | EA | 5 gal. | 30" | 30" | 36" | Full plants rooted to container |
| | <i>Muhlenbergia reverchonii</i> | Seep Muhly | 15% | 285 | EA | 1 gal. | 18" | 18" | 18" | Full plants rooted to container |
| | <i>Sabal minor</i> | Dwarf Palmetto | 10% | 45 | EA | 5 gal. | 38" | 38" | 36" | Full plants rooted to container |
| | <i>Schizachyrium scoparium</i> 'The Blues' | Little Bluestem 'The Blues' | 15% | 160 | EA | 1 gal. | 20" | 15" | 24" | Full plants rooted to container |
| | | | | 100% | | | | | | |

FILTER STRIP MIX - A

| SYM. | Botanical Name | Common Name | % of mix | Quantity | Units | Size | Height | Spread | Spacing | Remarks |
|------|--|-----------------------------|----------|----------|-------|--------|--------|--------|---------|---------------------------------|
| FMA | <i>Aristida purpurea</i> | Purple Threeawn | 15% | 139 | EA | 1 gal. | 18" | 18" | 18" | Full plants rooted to container |
| | <i>Bouteloua curtipendula</i> | Sideoats Grama | 10% | 94 | EA | 1 gal. | 18" | 18" | 18" | Full plants rooted to container |
| | <i>Bouteloua dactyloides</i> | Buffalo Grass | 15% | 321 | EA | 1 gal. | 12" | 12" | 12" | Full plants rooted to container |
| | <i>Chasmanthium latifolium</i> | Inland Sea Oats | 15% | 79 | EA | 1 gal. | 15" | 12" | 24" | Full plants rooted to container |
| | <i>Coreopsis linifolia</i> | Texas Tickseed | 15% | 139 | EA | 1 gal. | 15" | 18" | 18" | Full plants rooted to container |
| | <i>Elymus canadensis</i> | Canada Wild Rye | 15% | 139 | EA | 1 gal. | 18" | 18" | 18" | Full plants rooted to container |
| | <i>Schizachyrium scoparium</i> 'The Blues' | Little Bluestem 'The Blues' | 15% | 79 | EA | 1 gal. | 20" | 15" | 24" | Full plants rooted to container |
| | | | | 100% | | | | | | |

FILTER STRIP MIX - B

| SYM. | Botanical Name | Common Name | % of mix | Quantity | Units | Size | Height | Spread | Spacing | Remarks |
|------|--|------------------------------|----------|----------|-------|--------|---------|--------|---------|---------------------------------|
| FMB | <i>Bouteloua curtipendula</i> | Sideoats Grama | 20% | 165 | EA | 1 gal. | 18" | 18" | 18" | Full plants rooted to container |
| | <i>Elymus canadensis</i> | Canada Wild Rye | 15% | 124 | EA | 1 gal. | 18" | 18" | 18" | Full plants rooted to container |
| | <i>Gaura lindheimeri</i> | Gaura 'Whirling Butterflies' | 15% | 69 | EA | 1 gal. | 18" | 18" | 24" | Full plants rooted to container |
| | <i>Hilaria belangeri</i> | Curly Mesquite | 10% | 189 | EA | 1 gal. | 12" | 12" | 12" | Full plants rooted to container |
| | <i>Solidago altissima</i> | Late Goldenrod | 15% | 124 | EA | 1 gal. | 24"-48" | 12" | 18" | Full plants rooted to container |
| | <i>Salvia greggii</i> | Autumn Sage | 10% | 45 | EA | 1 gal. | 24" | 24" | 24" | Full plants rooted to container |
| | <i>Schizachyrium scoparium</i> 'The Blues' | Little Bluestem 'The Blues' | 15% | 69 | EA | 1 gal. | 20" | 15" | 24" | Full plants rooted to container |
| | | | | 100% | | | | | | |

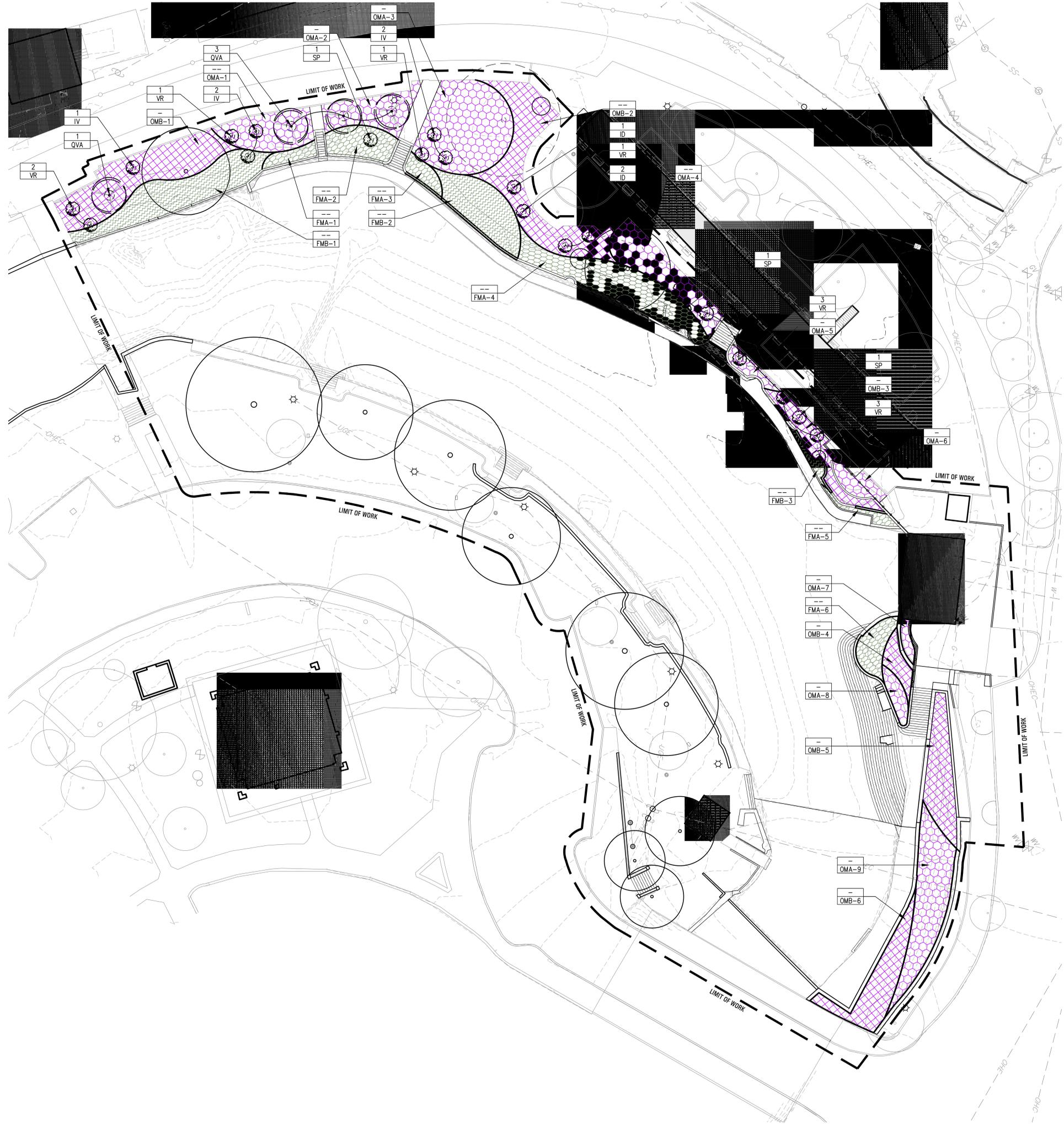
PLANT MIX QUANTITIES BY BED

| ORNAMENTAL MIX-A | | Botanical Name | Common Name | Size | Total | OMA-1 | OMA-2 | OMA-3 | OMA-4 | OMA-5 | OMA-6 | OMA-7 | OMA-8 | OMA-9 |
|------------------|-----|--|-----------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Spacing | % | | | | | | | | | | | | | |
| 18" | 15% | <i>Aristida purpurea</i> | Purple Threeawn | 1 gal. | 330 | 40 | 37 | 92 | 48 | 10 | 23 | 5 | 10 | 65 |
| 18" | 10% | <i>Bouteloua gracilis</i> | Blue Grama | 1 gal. | 222 | 27 | 25 | 62 | 32 | 6 | 15 | 4 | 7 | 44 |
| 18" | 15% | <i>Elymus canadensis</i> | Canada Wild Rye | 1 gal. | 330 | 40 | 37 | 92 | 48 | 10 | 23 | 5 | 10 | 65 |
| 24" | 15% | <i>Malvastrum arboreus</i> | Turk's Cap | 5 gal. | 187 | 23 | 21 | 52 | 27 | 5 | 13 | 3 | 6 | 37 |
| 30" | 15% | <i>Muhlenbergia lindheimeri</i> | Lindheimer's Muhly | 1 gal. | 118 | 14 | 13 | 33 | 17 | 3 | 8 | 2 | 4 | 24 |
| 24" | 15% | <i>Panicum virgatum</i> 'Shenandoah' | Switchgrass 'Shenandoah' | 1 gal. | 187 | 23 | 21 | 52 | 27 | 5 | 13 | 3 | 6 | 37 |
| 24" | 15% | <i>Schizachyrium scoparium</i> 'The Blues' | Little Bluestem 'The Blues' | 1 gal. | 187 | 23 | 21 | 52 | 27 | 5 | 13 | 3 | 6 | 37 |
| Total | | | | | 1,561 | 190 | 175 | 435 | 226 | 44 | 108 | 25 | 49 | 309 |
| 100% Area | | | | | 4414 | 536 | 493 | 1232 | 645 | 127 | 305 | 70 | 134 | 872 |

| ORNAMENTAL MIX-B | | Botanical Name | Common Name | Size | Total | OMB-1 | OMB-2 | OMB-3 | OMB-4 | OMB-5 | OMB-6 |
|------------------|-----|--|-----------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| Spacing | % | | | | | | | | | | |
| 18" | 20% | <i>Bouteloua gracilis</i> | Blue Grama | 1 gal. | 382 | 110 | 118 | 25 | 16 | 54 | 59 |
| 24" | 15% | <i>Chasmanthium latifolium</i> | Inland Sea Oats | 1 gal. | 160 | 46 | 49 | 10 | 7 | 23 | 25 |
| 18" | 15% | <i>Elymus canadensis</i> | Canada Wild Rye | 1 gal. | 285 | 82 | 88 | 19 | 12 | 40 | 44 |
| 36" | 10% | <i>Muhlenbergia dumosa</i> | Bamboo Muhly | 5 gal. | 45 | 13 | 14 | 3 | 2 | 6 | 7 |
| 18" | 15% | <i>Muhlenbergia reverchonii</i> | Seep Muhly | 1 gal. | 285 | 82 | 88 | 19 | 12 | 40 | 44 |
| 36" | 10% | <i>Sabal minor</i> | Dwarf Palmetto | 5 gal. | 45 | 13 | 14 | 3 | 2 | 6 | 7 |
| 24" | 15% | <i>Schizachyrium scoparium</i> 'The Blues' | Little Bluestem 'The Blues' | 1 gal. | 160 | 46 | 49 | 10 | 7 | 23 | 25 |
| Total | | | | | 1,362 | 392 | 420 | 89 | 58 | 192 | 211 |
| 100% Area | | | | | 3804 | 1099 | 1178 | 248 | 158 | 536 | 585 |

| FILTER STRIP MIX-A | | Botanical Name | Common Name | Size | Total | FMA-1 | FMA-2 | FMA-3 | FMA-4 | FMA-5 | FMA-6 |
|--------------------|-----|--------------------------------|-----------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| Spacing | % | | | | | | | | | | |
| 18" | 15% | <i>Aristida purpurea</i> | Purple Threeawn | 1 gal. | 139 | 8 | 26 | 10 | 67 | 10 | 18 |
| 18" | 10% | <i>Bouteloua curtipendula</i> | Sideoats Grama | 1 gal. | 94 | 6 | 17 | 7 | 45 | 7 | 12 |
| 12" | 15% | <i>Bouteloua dactyloides</i> | Buffalo Grass | 1 gal. | 321 | 19 | 60 | 23 | 154 | 23 | 42 |
| 24" | 15% | <i>Chasmanthium latifolium</i> | Inland Sea Oats | 1 gal. | 79 | 5 | 15 | 6 | 37 | 6 | 10 |
| 18" | 15% | <i>Coreopsis linifolia</i> | Texas Tickseed | 1 gal. | 139 | 8 | 26 | 10 | 67 | 10 | 18 |
| 18" | 15% | <i>Elymus canadensis</i> | Canada Wild Rye | 1 gal. | 139 | 8 | 26 | 10 | 67 | 10 | 18 |
| 24" | 15% | <i>Schizachyrium scoparium</i> | Little Bluestem 'The Blues' | 1 gal. | 79 | 5 | 15 | 6 | 37 | 6 | 10 |
| Total | | | | | 990 | 59 | 185 | 72 | 474 | 72 | 128 |
| 100% Area | | | | | 1864 | 113 | 347 | 134 | 891 | 135 | 244 |

| FILTER STRIP MIX-B | | Botanical Name | Common Name | Size | Total | FMB-1 | FMB-2 | FMB-3 |
|--------------------|-----|--|------------------------------|--------|-------|-------|-------|-------|
| Spacing | % | | | | | | | |
| 18" | 20% | <i>Bouteloua curtipendula</i> | Sideoats Grama | 1 gal. | 165 | 91 | 62 | 12 |
| 18" | 15% | <i>Elymus canadensis</i> | Canada Wild Rye | 1 gal. | 124 | 68 | 47 | 9 |
| 24" | 15% | <i>Gaura lindheimeri</i> | Gaura 'Whirling Butterflies' | 1 gal. | 69 | 38 | 26 | 5 |
| 12" | 10% | <i>Hilaria belangeri</i> | Curly Mesquite | 1 gal. | 189 | 104 | 72 | 13 |
| 18" | 15% | <i>Solidago altissima</i> | Late Goldenrod | 1 gal. | 124 | 68 | 47 | 9 |
| 24" | 10% | <i>Salvia greggii</i> | Autumn Sage | 1 gal. | 45 | 25 | 17 | 3 |
| 24" | 15% | <i>Schizachyrium scoparium</i> 'The Blues' | Little Bluestem 'The Blues' | 1 gal. | 69 | 38 | 26 | 5 |
| Total | | | | | 785 | 432 | 297 | 56 |
| 100% Area | | | | | 1646 | 908 | 623 | 115 |



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Stamp



Revisions

- 1 . . .
- 2 . . .
- 3 . . .
- 4 . . .
- 5 . . .

Date

11 JANUARY 2023

Phase

95% CONSTRUCTION DOCUMENTS

Job Number

CN05701

Scale

0 8' 16'
1/8" = 1'-0"

North



Drawing Title

PLANTING PLAN

Drawing Number

L5.01

- NOTES**
- REF. L5.00 PLANT SCHEDULE FOR SPECIES, MIXES, AND QUANTITIES.
 - REF. L6.01 PLANTING DETAILS FOR STANDARD TREE, SHRUB, AND PERENNIAL/GRASS PLANTING INSTALL.
 - TREE LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT IN FIELD.
 - MIX LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT IN FIELD PRIOR TO PLANTING.

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Revisions

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-
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Scale North

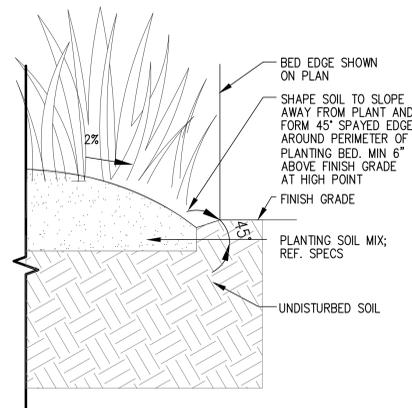
Drawing Title

PLANTING DETAILS

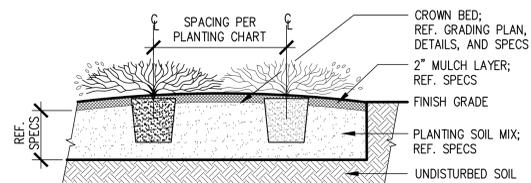
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L6.01

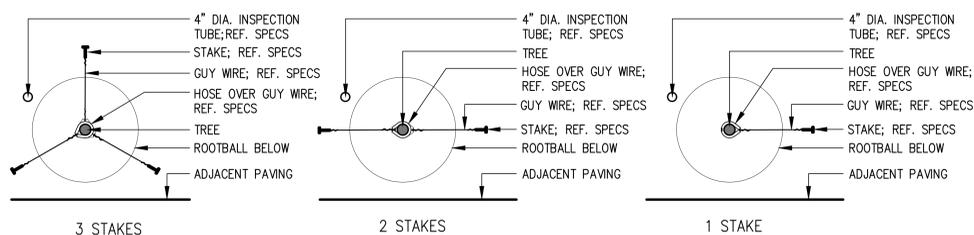
08 SECTION – TYPICAL BED EDGE
1" = 1'-0"



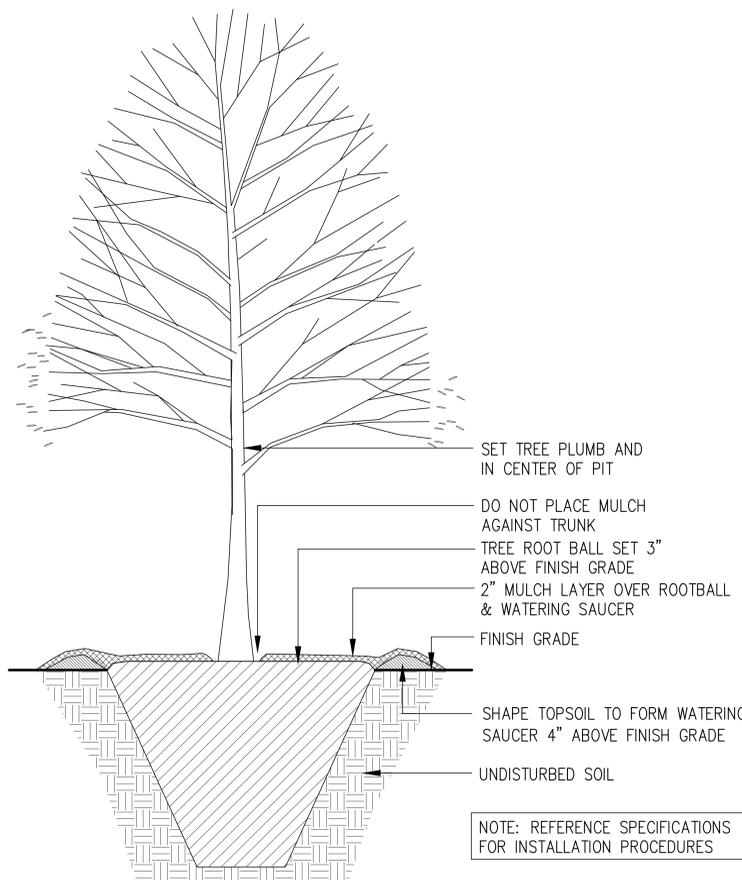
07 SECTION – TYPICAL SHRUB PLANTING
3/4" = 1'-0"



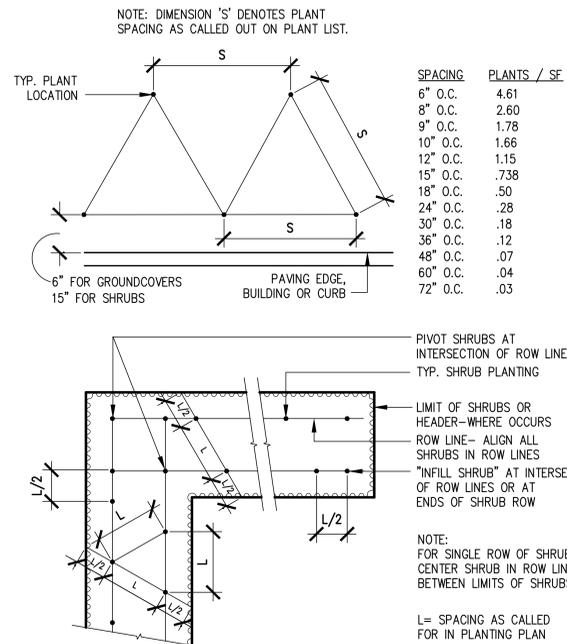
06 PLAN – TYPICAL TREE STAKING
3/4" = 1'-0"



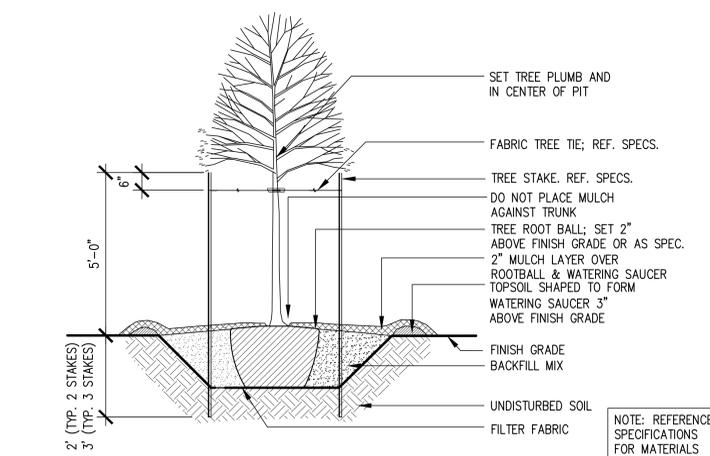
04 SECTION – MACHINE MOVED TREE PLANTING
1/2" = 1'-0"



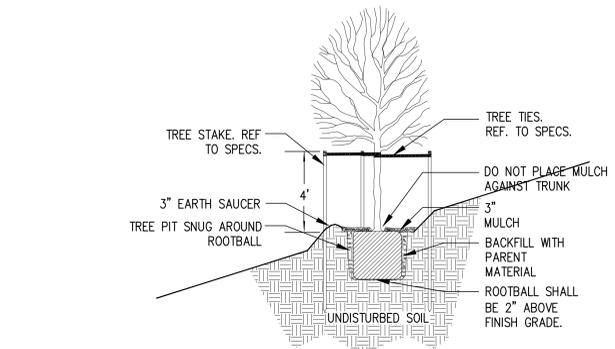
05 PLAN – PLANT SPACING CHART
3" = 1'-0"



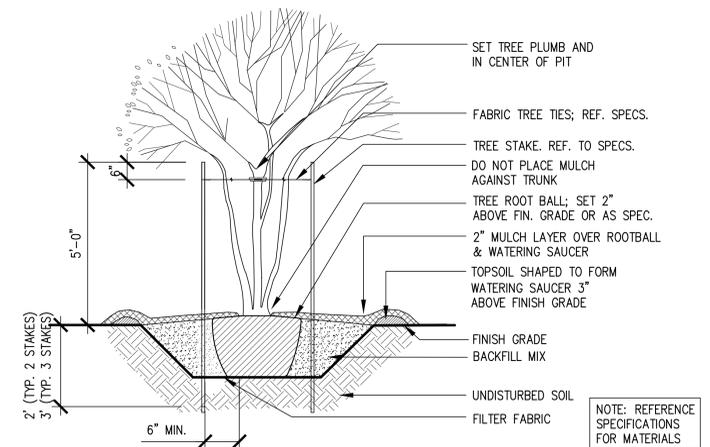
02 SECTION – TYPICAL MULTI-TRUNK TREE PLANTING
1/2" = 1'-0"



01 SECTION – TYPICAL TREE PLANTING
1/2" = 1'-0"



03 SECTION – TYPICAL TREE PLANTING ON SLOPE
1/2" = 1'-0"



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Stamp DATE: 12/15/2022



Shawn Franke

Revisions

Date

11 JANUARY 2023

Phase

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Job Number

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Scale

North

Drawing Title

NOTES

Drawing Number

S1.00

DEMOLITION NOTES:

DM-1 THE CONTRACTOR MUST REVIEW ALL WORK IN PROGRESS TO ASCERTAIN THAT ACTUAL STRUCTURAL CONDITIONS ENCOUNTERED REFLECT THOSE SHOWN ON THE DRAWINGS, AND REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER.

DM-2 DURING DEMOLITION CONTRACTOR SHALL IDENTIFY STRUCTURAL FRAMING AND LOAD PATHS IN AREA OF DEMOLITION TO PREVENT ACCIDENTAL COLLAPSE.

DM-3 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL BRACING AND SHORING REQUIRED TO INSURE THE SAFETY AND STRUCTURAL INTEGRITY OF THE PROJECT DURING DEMOLITION OPERATIONS.

DM-4 CONTRACTOR SHALL INSPECT EXISTING STRUCTURAL ELEMENTS AND REPAIR OR REPLACE THOSE FOUND TO BE STRUCTURALLY UNSOUND AS DIRECTED BY STRUCTURAL ENGINEER OF RECORD.

DM-5 WHERE EXISTING CONCRETE IS NOTED TO BE REMOVED, WORK SHALL BE INITIATED BY MEANS OF SAW CUTS AT LEAST 1" DEEP OR BY PERFORATING WITH CLOSELY SPACED THRU-DRILLED HOLES. IF REINFORCING IS TO REMAIN, INITIATE WITH SAW CUTS APPROXIMATELY 3/4" DEEP. DEMOLITION SHALL PROCEED USING HAND HELD CUTTING TOOLS AND/OR LOW IMPACT CHIPPING DEVICES. NO JACK HAMMERS OR SIMILAR HEAVY IMPACT EQUIPMENT WILL BE PERMITTED.

DM-6 INITIATE SAWCUTTING THRU WALLS AND SLABS WITH 3" CORE HOLES AT ALL CORNERS TO PREVENT OVERCUTS. OVERCUTS ARE NOT PERMITTED.

DM-7 REPLACE ALL CONCRETE COVERAGE, REMOVED TO INSTALL NEW STEEL MEMBERS, TO MAINTAIN FIRE PROTECTION OF MAIN STRUCTURAL FRAMING.

DM-8 ALL TEMPORARY SHORING IS TO BE DESIGNED AND DETAILED BY A LICENSED PROFESSIONAL ENGINEER, SIGNED AND STAMPED DRAWINGS ARE TO BE SUBMITTED TO THE A/E TEAM FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND CONSTRUCTION.

DM-9 SELECTIVE DEMO OF HISTORIC STRUCTURES EXISTS WITHIN PROJECT SCOPE. CARE TO BE TAKEN TO PRESERVE BOTH OUT OF SCOPE STRUCTURES & DEMO MATERIALS FOR PRESERVATION & REUSE.

DM-10 NO HEAVY MACHINERY OR VEHICLES ARE PERMITTED NEAR HISTORICAL STRUCTURES UNLESS ABSOLUTELY REQUIRED BY CONSTRUCTION SEQUENCING.

DM-11 CONTRACTOR TO PRESERVE AS MUCH HISTORIC STONE AS POSSIBLE FOR REINTEGRATION INTO RECONSTRUCTION AND REHABILITATION OF EXTANT HISTORIC STRUCTURES.

CONCRETE NOTES:

CM-1 CONCRETE SHALL BE LABORATORY DESIGNED TO DEVELOP MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS GIVEN BELOW. REFER TO SPECIFICATIONS FOR AGGREGATES, CEMENT, ADMIXTURES, ETC.

COLUMNS AND WALLS 4,000 PSI

NOTE: FLY ASH WILL BE PERMITTED UP TO 20% PORTLAND CEMENT REPLACEMENT, REFER TO SPECIFICATIONS.

CM-2 REINFORCING STEEL SHALL BE FROM NEW BILLET AND SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

A615-GR 60 FOOTING SPIRALS
A185 WELDED WIRE FABRIC
A615-GR 60 BEAM STIRRUPS, COLUMN TIES
A615-GR 60 ALL OTHER REINFORCING
ASTM A108-60T HEADED CONCRETE ANCHORS
ASTM A496 DEFORMED BAR ANCHORS

CM-3 DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES SHALL BE IN ACCORDANCE WITH LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315). BAR SUPPORTS SHALL HAVE PLASTIC COATED LEGS OR BE HOT DIPPED GALVANIZED AFTER FABRICATION.

CM-4 PROVIDE BAR LAPS AND SPLICES PER REINFORCING BAR LAP SPLICE TABLE BELOW. SEE "CORNER DETAILS" FOR CONTINUOUS BARS AT CORNERS. SPIRALS SHALL BE LAPPED 1-1/2 TURNS. WELDED WIRE MESH SHALL BE LAPPED 3" MINIMUM AT SPLICE POINTS, OR 1-1/2 MESHES, WHICHEVER IS GREATEST.

CM-5 CONTRACTOR SHALL PROVIDE NECESSARY CONSTRUCTION JOINTS IN MONOLITHIC CONCRETE FORMING SO THAT NOT MORE THAN 400 CUBIC YARDS IS POURED IN ONE DAY. LOCATION OF CONSTRUCTION JOINTS MUST HAVE PRIOR APPROVAL OF STRUCTURAL ENGINEER OF RECORD AND SHALL GENERALLY BE LOCATED AT OR NEAR MID-POINTS OF SPANS OF SLAB, BEAMS AND WALLS. ALL CONTINUOUS REINFORCING SHALL BE CARRIED THROUGH THE JOINT. SEE DETAILS FOR CONTINUOUS KEY BETWEEN ADJACENT POURS.

CM-6 SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZES OF ALL SLAB OPENINGS AND SLEEVES, INSERTS, ANCHORS AND BOLTS REQUIRED BY ABOVE.

CM-7 REFER TO ARCHITECTURAL DRAWINGS FOR ALL FLOOR FINISHES, DIMENSIONS AND LOCATIONS OF SLAB DROPS AND DEPRESSIONS.

CM-8 MECHANICAL AND ELECTRICAL CONDUITS IN SLABS SHALL RUN UNDER THE TOP LAYER OF SLAB REINFORCING OR WELDED WIRE FABRIC. PROVIDE A MINIMUM OF 1-1/2" CLEAR BETWEEN INDIVIDUAL CONDUITS, AND BETWEEN CONDUIT AND PARALLEL REINFORCING. DO NOT "BUNDLE" CONDUITS.

CM-9 "HEADED CONCRETE ANCHORS" (HCA) SHALL BE OF 50,000 PSI STEEL ROD WITH UPSET ENDS, AUTOMATICALLY ARC WELDED THROUGH CERAMIC FERRULES, "NELSON CONCRETE ANCHORS" OR EQUAL.

MECHANICAL TESTING OF HCA IN SHOP

MECHANICAL TESTS SHALL BE MADE BEFORE INITIATION OF PRODUCTION WELDING AND AFTER ANY EQUIPMENT MAINTENANCE TO ENSURE THAT THE WELDING SCHEDULE IS SATISFACTORY. THEY MAY ALSO BE MADE DURING THE PRODUCTION RUN OR AT THE BEGINNING OF A SHIFT TO ENSURE THAT WELDING CONDITIONS HAVE NOT CHANGED. ARC WELDED STUDS ARE TESTED BY BENDING THE STUD. BENDING MAY BE DONE BY STRIKING THE STUD WITH A HAMMER OR BY BENDING IT USING A TUBE OR PIPE. THE ANGLE THROUGH WHICH THE STUD WILL BEND WITHOUT WELD FAILURE WILL DEPEND ON THE STUD AND BASE METAL COMPOSITIONS, CONDITIONS (COLD WORKED, HEAT TREATED), AND STUD DESIGN. ACCEPTABLE BENDING SHOULD BE DETERMINED WHEN THE WELDING PROCEDURE SPECIFICATION IS ESTABLISHED OR FROM THE APPLICABLE WELDING CODE. BEND TESTING MAY DAMAGE THE STUD; THEREFORE, IT SHOULD BE DONE ON QUALIFICATION SAMPLES ONLY. THE METHOD USED TO APPLY TENSILE LOAD ON AN ARC WELDED STUD WILL DEPEND ON THE STUD DESIGN. SPECIAL TOOLING MAY BE REQUIRED TO GRIP THE STUD PROPERLY WITHOUT DAMAGE, AND A SPECIAL LOADING DEVICE MAY BE NEEDED.

MECHANICAL TESTING OF HCA IN FIELD

MECHANICAL TESTS SHALL BE MADE IN THE FIELD BEFORE PLATES ARE INSTALLED IN CONCRETE. THE CONTRACTOR SHALL SUPPLY AT A MINIMUM ONE ADDITIONAL PER 50 PLATES OF EACH TYPE OR ADDITIONAL STUDS SHALL BE PLACED ON SPECIAL CONFIGURATION PLATES AND MEMBERS. THESE STUDS SHALL BE TESTED IN THE FIELD. ARC WELDED STUDS ARE TESTED BY BENDING THE STUD. BENDING MAY BE DONE BY STRIKING THE STUD WITH A HAMMER OR BY BENDING IT USING A TUBE OR PIPE. THE ANGLE THROUGH WHICH THE STUD WILL BEND WITHOUT WELD FAILURE WILL DEPEND ON THE STUD AND BASE METAL COMPOSITIONS, CONDITIONS (COLD WORKED, HEAT TREATED), AND STUD DESIGN. BEND TESTING MAY DAMAGE, THUS THEY MAY NOT BE USED. THE STUD, THEREFORE, IT SHOULD BE DONE ON QUALIFICATION SAMPLES ONLY. THE METHOD USED TO APPLY TENSILE LOAD ON AN ARC WELDED STUD WILL DEPEND ON THE STUD DESIGN. PROPERLY WITHOUT DAMAGE, AND A SPECIAL LOADING DEVICE MAY BE NEEDED.

CM-10 REFER TO SPECIFICATIONS FOR TESTING REQUIREMENTS. ALL TESTING SHALL BE AT POINT OF DISCHARGE. IF PUMP IS USED, TESTING SHALL BE AT THE END OF THE HOSE.

REINFORCING BAR LAP SPLICE TABLE (MASONRY)

| BAR SIZE | POSITION | CONCRETE f'c (PSI) AND LAP CLASS | | | | |
|------------|----------|----------------------------------|------|--|--|--|
| | | 2500 | 3000 | | | |
| #3 thru #6 | ALL | 40db | 40db | | | |
| | | B | B | | | |

| | | | | | | |
|-------------|-----|------|------|--|--|--|
| #7 thru #11 | ALL | 72db | 72db | | | |
|-------------|-----|------|------|--|--|--|

REINFORCING BAR LAP SPLICE TABLE (BEAMS AND COLUMNS)

| BAR SIZE | POSITION | CONCRETE f'c (PSI) AND LAP CLASS | | | | | | |
|------------|----------|----------------------------------|------|------|------|--|--|--|
| | | 3000 | 4000 | 5000 | 6000 | | | |
| #3 thru #6 | ALL | 74db | 64db | 58db | 50db | | | |
| | | B | B | B | B | | | |

| | | | | | | | | |
|-------------|-----|------|------|------|------|--|--|--|
| #7 thru #11 | ALL | 93db | 80db | 72db | 60db | | | |
|-------------|-----|------|------|------|------|--|--|--|

REINFORCING BAR LAP SPLICE TABLE (SLABS AND WALLS)

| BAR SIZE | POSITION | CONCRETE f'c (PSI) AND LAP CLASS | | | | | |
|------------|-------------|----------------------------------|------|------|--|--|--|
| | | 3000 | 4000 | 5000 | | | |
| #3 thru #6 | 0.75" COVER | 75db | 64db | 58db | | | |
| | | 46db | 40db | 40db | | | |

| | | | | | | | |
|-------------|-------------|-------|-------|-------|--|--|--|
| #7 thru #11 | 0.75" COVER | 138db | 120db | 106db | | | |
| | 2.0" COVER | 74db | 65db | 56db | | | |

REBAR LAP SPLICE TABLE NOTES:

RL-1 "db" DENOTES BAR DIAMETER.

RL-2 ALL SPLICES SHALL BE CLASS B UNLESS OTHERWISE NOTED.

RL-3 VALUES APPLY TO ALL BARS WITH MINIMUM CONCRETE COVER 1.0db AND MINIMUM CENTER TO CENTER SPACING OF 2.0db.

RL-4 FOR LIGHTWEIGHT CONCRETE, MULTIPLY BY 1.3.

RL-5 THE CHART ABOVE IS A SIMPLIFIED AND CONSERVATIVE METHOD FOR MEETING THE REQUIREMENTS OF ACI 12.2.2. THE CONTRACTOR MAY SUBMIT A DETAILED REBAR SPLICING PLAN IN ACCORDANCE WITH ACI 12.2.2 FOR APPROVAL.

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GENERAL NOTES:

GM-1 THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2021) AS AMENDED AND ADOPTED BY THE GOVERNING AUTHORITY, AND APPLICABLE INDUSTRY STANDARDS (AISC, ACI, ETC.).

GM-2 THE DESIGN LOADS ARE:

SUPERIMPOSED DEAD LOADS
MECHANICAL DUCTS/CONDUITS, CEILING, ETC. 5 PSF
MECHANICAL EQUIPMENT AS INDICATED ON PLANS

FLOOR LIVE LOAD
CORRIDOR 100 PSF
OFFICES 50 PSF
MOVEABLE PARTITIONS 20 PSF
MECHANICAL ROOMS 150 PSF
(NON REDUCIBLE)

ASSEMBLY AREAS:
FIXED SEATS 60 PSF
LOBBIES 100 PSF
MOVEABLE SEATS 100 PSF
STAGES & PLATFORMS 125 PSF
CATWALKS 40 PSF

ROOF LIVE LOAD
FLAT ROOF 20 PSF
PITCHED ROOF 20 PSF

ROOF SNOW LOAD
GROUND SNOW Pg 5 PSF
SNOW EXPOSURE FACTOR Ce 1.0
SNOW LOAD IMPORTANCE FACTOR Is 1.1
THERMAL FACTOR Ct 1.0

WIND LOAD
BASIC WIND SPEED (ULTIMATE DESIGN) 120
BUILDING CATEGORY III
WIND EXPOSURE C
INTERNAL PRESSURE COEF. ±0.18
COMPONENTS AND CLADDING WIND PRESSURE 25 PSF

EARTHQUAKE LOADS
SEISMIC IMPORTANCE FACTOR Is 1.00
SPECTRAL RESPONSE ACCELERATION Sa 14%
SPECTRAL RESPONSE ACCELERATION S 3%
SPECTRAL RESPONSE COEF. Sds 14%
SPECTRAL RESPONSE COEF. SD1 6%
SEISMIC DESIGN CATEGORY A
SEISMIC RESPONSE COEF Cs 01

RETAINING WALLS
GLOBAL STABILITY ANALYSIS FACTOR OF SAFETY 1.5
TYPE CANTILEVER
EQUIVALENT FLUID PRESSURE 50 PCF
BACKFILL DRAINED/ONSITE
FOOTING BEARING 1500 PSF
SURCHARGE 200 PSF

FLOOR LOAD
ELEVATION OF LOWEST FLOOR REF. ARCH. DWGS.

GM-3 ALLOWABLE STRESS DESIGN LOAD COMBINATIONS (FOR ALL DESIGNS EXCEPT CONCRETE)

D
D+L
D+(Lr, or S or R)
D+0.75L+0.75(Lr, or S or R)
D+(0.6W)
D+0.75L+0.75(0.6W)+0.75(Lr or S or R)
0.6D+0.6W
D+0.7E

STRENGTH DESIGN LOAD COMBINATIONS (FOR CONCRETE DESIGN)

1.4D
1.2D+1.6L+0.5(Lr, or S or R)
1.2D+1.6(Lr, or S or R)+(Lr or 0.5W)
1.2D+1.0W+1.0S(Lr, or S or R)
0.9+1.0W
1.2D+E+1.0+2S

GM-4 PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND FABRICATOR SHALL VERIFY ALL QUANTITIES, DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT/STRUCTURAL ENGINEER OF RECORD OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

GM-5 UTILITIES PENETRATING BUILDING SHALL BE FLEXIBLE, USING SLEEVE JOINTS, BENDS, LOOPS, ETC. TO PERMIT MOVEMENTS DUE TO EXPANSIVE UNDERLYING SOILS.

GM-6 PROVIDE ADEQUATE AND APPROPRIATE STRUCTURAL STEEL FRAMING FOR THE SUPPORT AND MOUNTING OF MECHANICAL EQUIPMENT RESTING ON, OR SUSPENDED FROM, STEEL SUPERSTRUCTURE.

GM-7 THE STRUCTURAL DRAWINGS FOR THIS PROJECT ARE COPYRIGHTED AND SHALL NOT BE REPRODUCED FOR USE AS FABRICATOR'S ERECTION DRAWINGS. THE CONTRACTOR SHALL ALLOW ADEQUATE TIME AND EXPENSE FOR SUBCONTRACTORS TO PRODUCE THEIR OWN ORIGINAL ERECTION AND PLACEMENT DRAWINGS.

GM-8 THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. ANY PROPOSED APPLICATION OF CONSTRUCTION LOADS OR OF ANY LOADS TO THE PARTIALLY COMPLETED STRUCTURE WHICH EXCEED THE DESIGN LOADS WILL REQUIRE REANALYSIS AND PROBABLE REDESIGN.

UNDERFLOOR FILL NOTES:

UF-1 BEFORE ANY CONSTRUCTION IS BEGUN, PERFORM ROUGH GRADING AND CUT SWALES SO THAT GROUNDS WILL DRAIN AWAY FROM THE BUILDING. MAINTAIN DRAINAGE DURING ALL PHASES OF CONSTRUCTION SO THAT STORM WATER WILL BE CONDUCTED AWAY FROM THE BUILDING. KEEP EXCAVATIONS PUMPED FREE OF STORM WATER AT ALL TIMES.

UF-2 PRECAUTIONS SHALL BE TAKEN TO PROTECT OPEN EXCAVATIONS FROM EXCESSIVE LOSS OR GAIN IN NATURAL MOISTURE LEVEL PRIOR TO PLACEMENT OF BASE MATERIAL. KEEP MOIST DURING DRY WEATHER AND KEEP STORM WATER PUMPED OUT, INCLUDING NIGHTS AND WEEKENDS, DURING RAINS.

UF-3 IN THE AREA OCCUPIED BY THE FOUNDATION AND ALL ADJACENT SIDEWALKS, PLUS 3'-0" REMOVE A MINIMUM OF 3'-0" OF TOPSOIL INCLUDING ALL ORGANIC MATERIALS, ROOTS, ETC. FROM THE SITE. DO NOT USE FOR UNDERFLOOR FILL. REMOVE ADDITIONAL MATERIAL AS NECESSARY TO PROVIDE A MINIMUM OF 3'-0" OF SELECT FILL AS PER UF-6.

UF-4 THE RESULTING SURFACE SHALL BE PROOF ROLLED WITH A SUFFICIENTLY HEAVY ROLLER (15 TONS) TO LOCATE AND DENSITY WEAK AND COMPRESSIBLE ZONES. A MINIMUM OF 6 PASSES OF THE ROLLER IS REQUIRED. ANY SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT FILL.

UF-5 THE ROLLED SUBGRADE SHALL BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 6" AND RECOMPACTED TO MINIMUM 95% OF THE MAXIMUM DENSITY DETERMINED BY ASTM D698 COMPACTION TEST, MAINTAINING MOISTURE CONTENT BETWEEN -1 AND +3 PERCENTAGE POINTS UNTIL COVERED.

UF-6 FOR A DISTANCE OF 3'-0" OUTSIDE OF THE BUILDING LINE AND ALL ADJACENT SIDEWALKS, AND BEGINNING AT THE LOW END, BUILD UP TO THE ELEVATION OF THE BOTTOM OF THE SLAB WITH SELECT CRUSHED STONE FILL, CONFORMING TO 1X00T SPECIFICATIONS, ITEM 247, TYPE "A" GRADE 2. A MINIMUM THICKNESS OF 3'-0" IS REQUIRED.

UF-7 ALL FILL SHALL BE PLACED IN 8" LOOSE HORIZONTAL LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698 COMPACTION TEST, MAINTAINING MOISTURE CONTENT BETWEEN -1 AND +3 PERCENTAGE POINTS UNTIL COVERED. EXCESS FILL AT BUILDING PERIMETER SHALL BE CUT AND GRADED TO COMPLY WITH FINISHED GRADE REQUIREMENTS.

UF-8 PERFORM ALL EARTH WORK DESCRIBED ABOVE BEFORE TRENCHING FOR GRADE BEAMS OR MECHANICAL LINES.

CONTRACTOR NOTE

THE STRUCTURAL SYSTEM FOR THIS PROJECT SHALL NOT BE CONSTRUCTED BY USING THE STRUCTURAL DRAWINGS ALONE. THESE DRAWINGS WERE DEVELOPED FROM DATA DERIVED PRIMARILY FROM THE ARCHITECTURAL, MECHANICAL AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES' DOCUMENTS. IT IS INTENDED THAT CONSTRUCTION PROCEED BY UTILIZING ALL OF THE INFORMATION CONTAINED IN THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TAKEN AS A WHOLE. FAILURE TO DO SO WILL RESULT IN ERRORS WHICH SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

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DATE: 12/15/2022



Shawn Franke

Revisions

Date
11 JANUARY 2023

Phase
95% CONSTRUCTION DOCUMENTS

Job Number
CN05701

Scale North

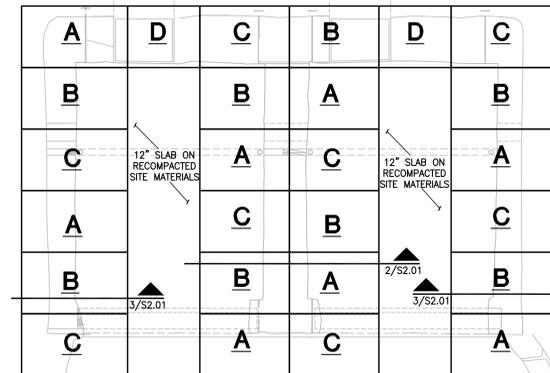
Drawing Title
FOUNDATION UNDERPINNING PLAN AND SECTIONS

Drawing Number

S2.01

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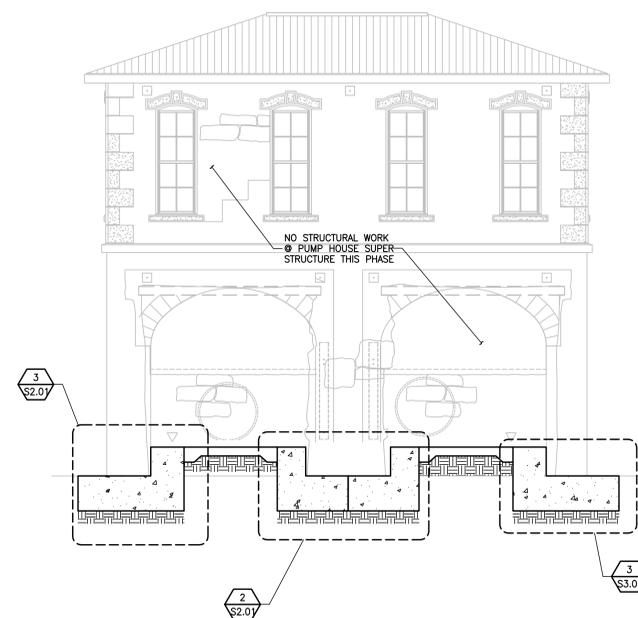
- PLAN NOTES:
- EXCAVATION OF FOUNDATION TO BE ALLOWED IN ALPHABETICAL SEQUENCE.
 - NO TWO ADJACENT AREAS MAY BE EXCAVATED @ THE SAME TIME.
 - CONTRACTOR RESPONSIBLE FOR SHORING OF EXISTING STRUCTURE BY EXPERIENCED SHORING ENGINEER.
 - REPLACE EXISTING SLAB AFTER EXCAVATION AS SHOWN IN DETAILS 2 & 3/S2.01



PUMP HOUSE FOUNDATION UNDERPINNING PLAN

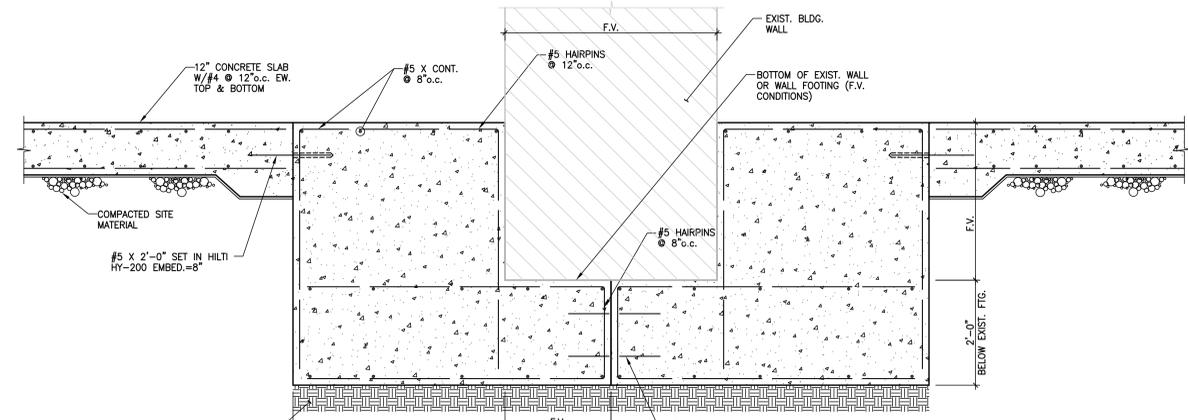
SCALE: 1/4" = 1'-0"

* CONTRACTOR RESPONSIBLE FOR TEMPORARY SHORING OF EXISTING BUILDING DURING SEQUENTIAL EXCAVATION



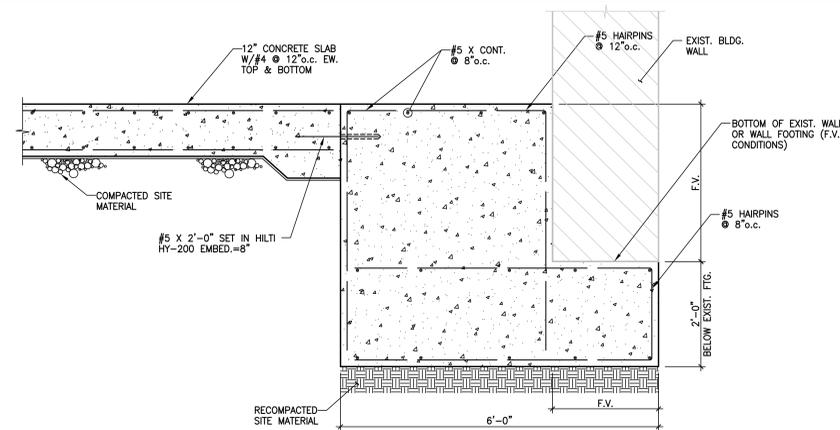
PUMP HOUSE UNDERPINNING ELEVATION

SCALE: 3/4" = 1'-0"



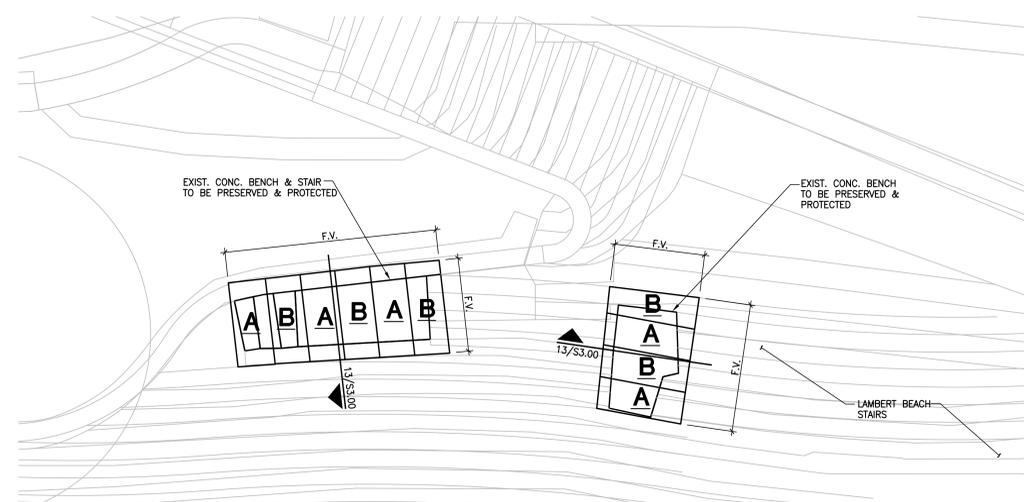
SECTION AT PUMP HOUSE INTERIOR FOUNDATION WALL

SCALE: 3/4" = 1'-0"



SECTION AT PUMP HOUSE EXTERIOR FOUNDATION WALL

SCALE: 3/4" = 1'-0"



EXISTING STONE BENCH & STAIR UNDERPINNING PLAN

SCALE: 1/4" = 1'-0"

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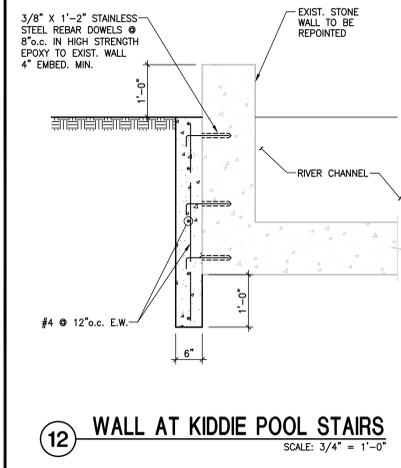
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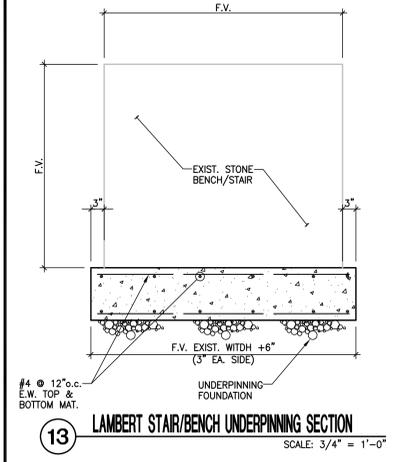
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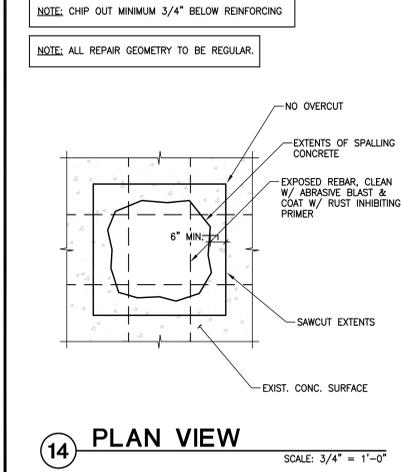
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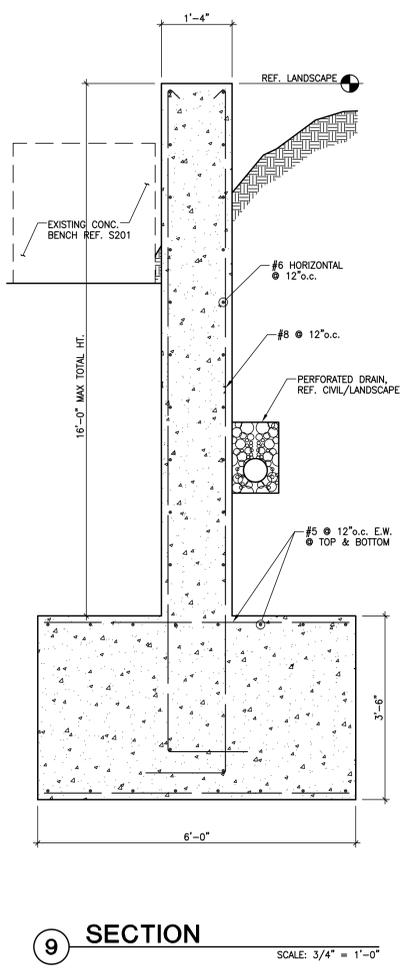
12 WALL AT KIDDIE POOL STAIRS
SCALE: 3/4" = 1'-0"



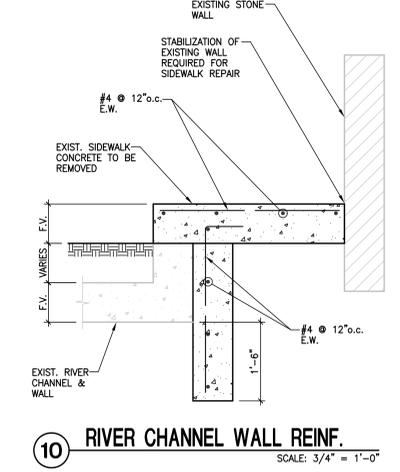
13 LAMBERT STAIR/BENCH UNDERPINNING SECTION
SCALE: 3/4" = 1'-0"



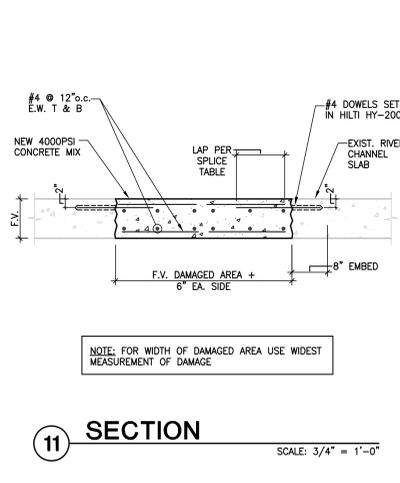
14 PLAN VIEW
SCALE: 3/4" = 1'-0"



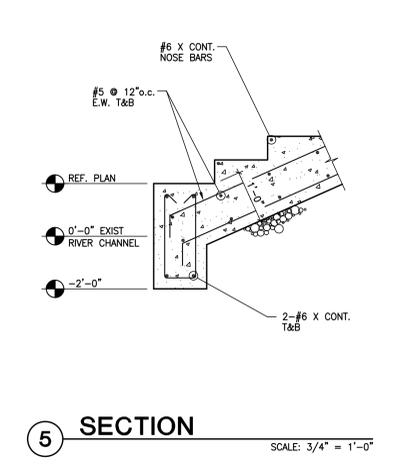
9 SECTION
SCALE: 3/4" = 1'-0"



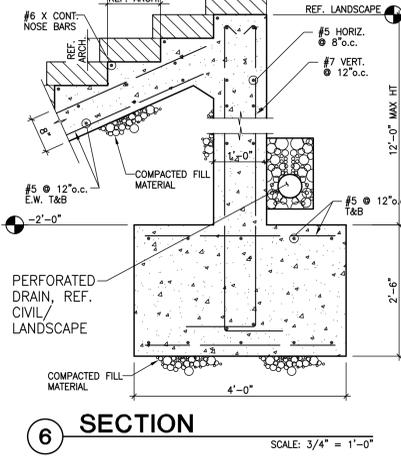
10 RIVER CHANNEL WALL REIN.
SCALE: 3/4" = 1'-0"



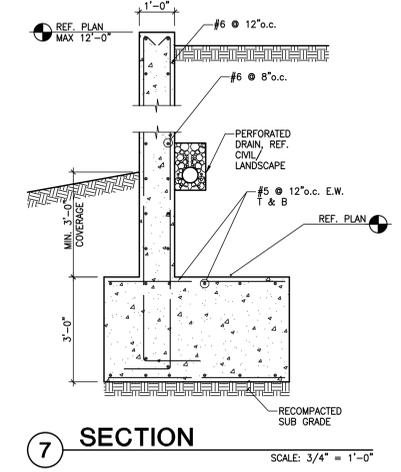
11 SECTION
SCALE: 3/4" = 1'-0"



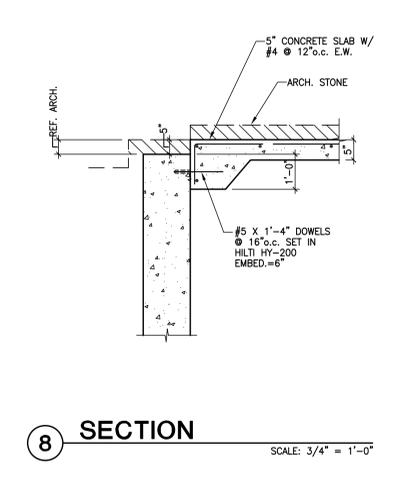
5 SECTION
SCALE: 3/4" = 1'-0"



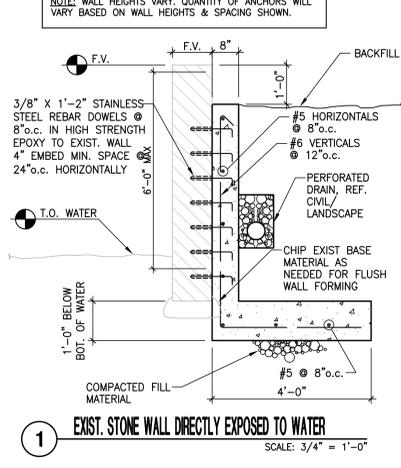
6 SECTION
SCALE: 3/4" = 1'-0"



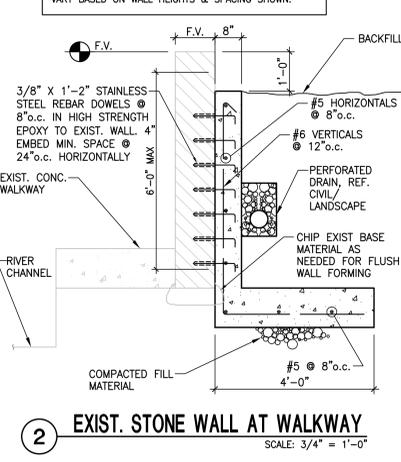
7 SECTION
SCALE: 3/4" = 1'-0"



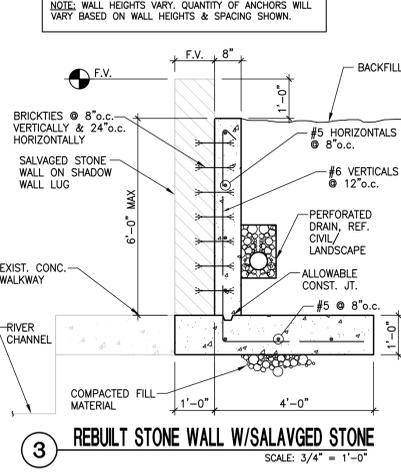
8 SECTION
SCALE: 3/4" = 1'-0"



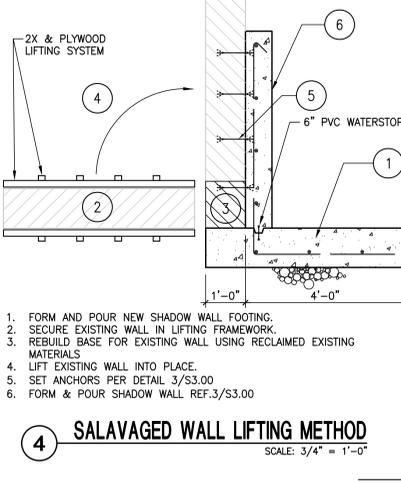
1 EXIST. STONE WALL DIRECTLY EXPOSED TO WATER
SCALE: 3/4" = 1'-0"



2 EXIST. STONE WALL AT WALKWAY
SCALE: 3/4" = 1'-0"



3 REBUILT STONE WALL W/SALVAGED STONE
SCALE: 3/4" = 1'-0"



4 SALVAGED WALL LIFTING METHOD
SCALE: 3/4" = 1'-0"

- FORM AND POUR NEW SHADOW WALL FOOTING.
- SECURE EXISTING WALL IN LIFTING FRAMEWORK.
- REBUILD BASE FOR EXISTING WALL USING RECLAIMED EXISTING MATERIALS.
- LIFT EXISTING WALL INTO PLACE.
- SET ANCHORS PER DETAIL 3/S3.00
- FORM & POUR SHADOW WALL REF.3/S3.00

LA PROJECT NO.: 03-257-00
LA FILE NO.: BRWRS3-00

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Revisions

Date

11 JANUARY 2023

Phase

95% CONSTRUCTION DOCUMENTS

Job Number

CN05701

Scale

North

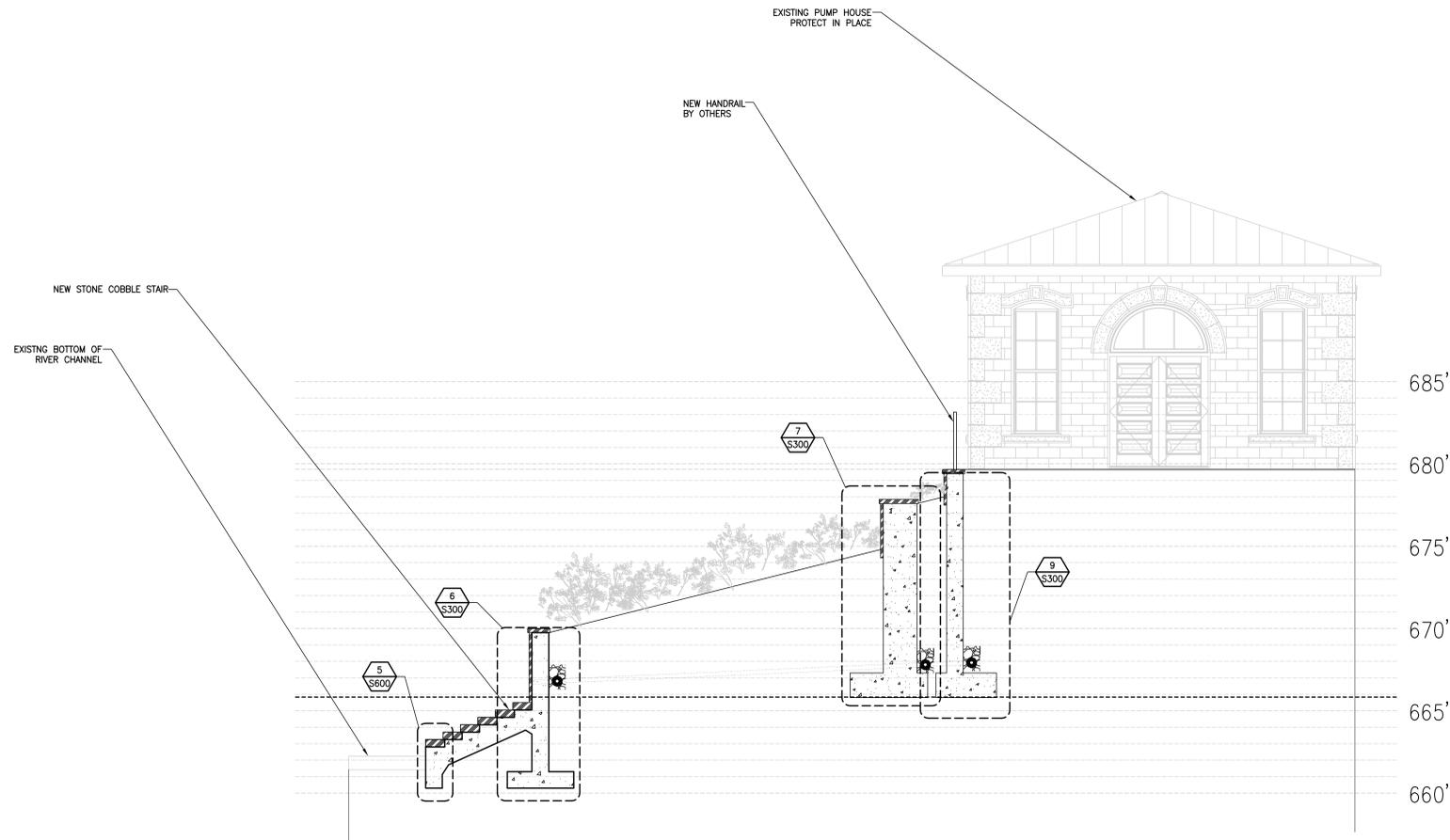
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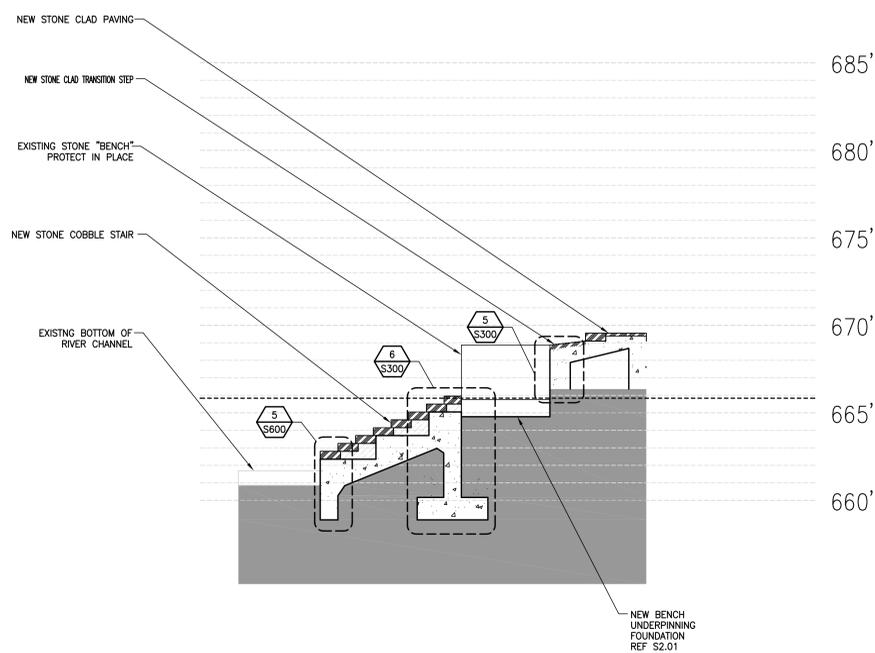
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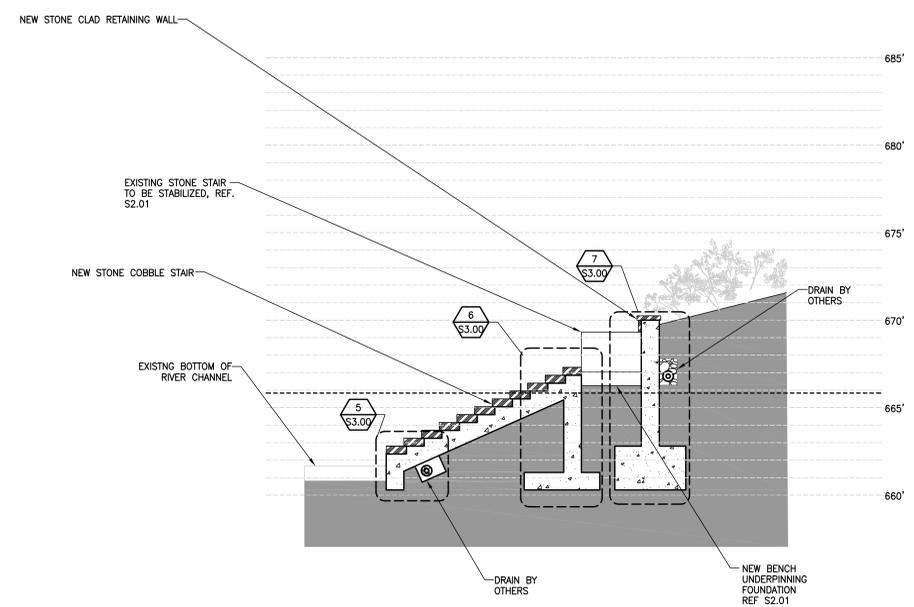
1 SECTION LAMBERT BEACH STAIR

SCALE: 1/4" = 1'-0"



3 SECTION LAMBERT BEACH STAIR AT HISTORIC BENCH

SCALE: 1/4" = 1'-0"



2 SECTION LAMBERT BEACH STAIR AT HISTORIC STONE STAIR

SCALE: 1/4" = 1'-0"

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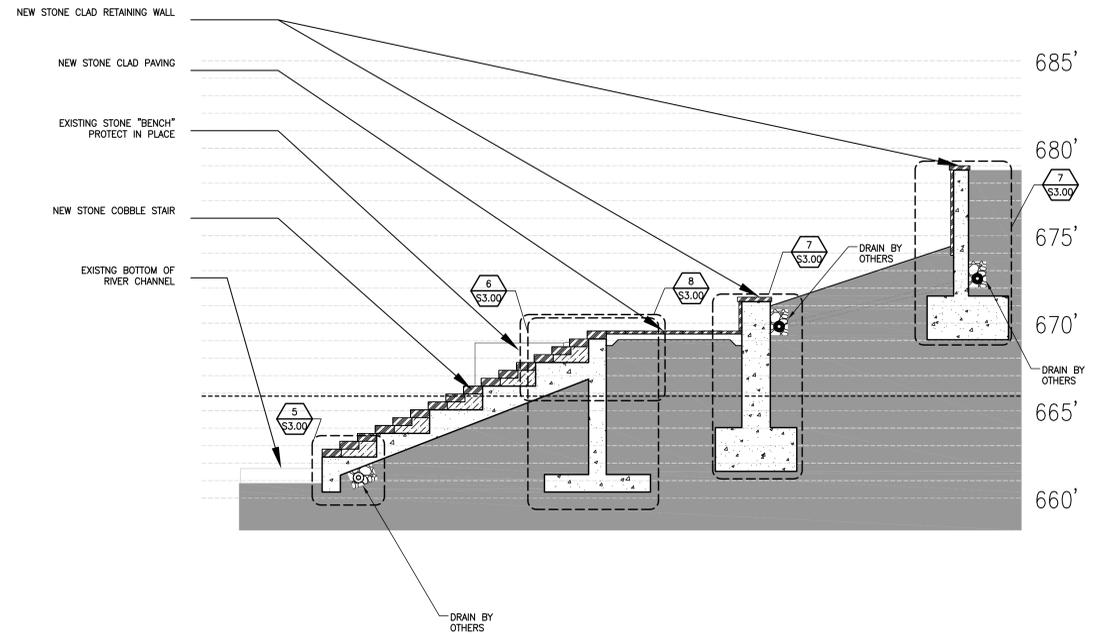
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1 SECTION LAMBERT BEACH LARGE STAIR

SCALE: 1/4" = 1'-0"

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Phase
95% CONSTRUCTION DOCUMENTS

Job Number
CNOS701

Scale North

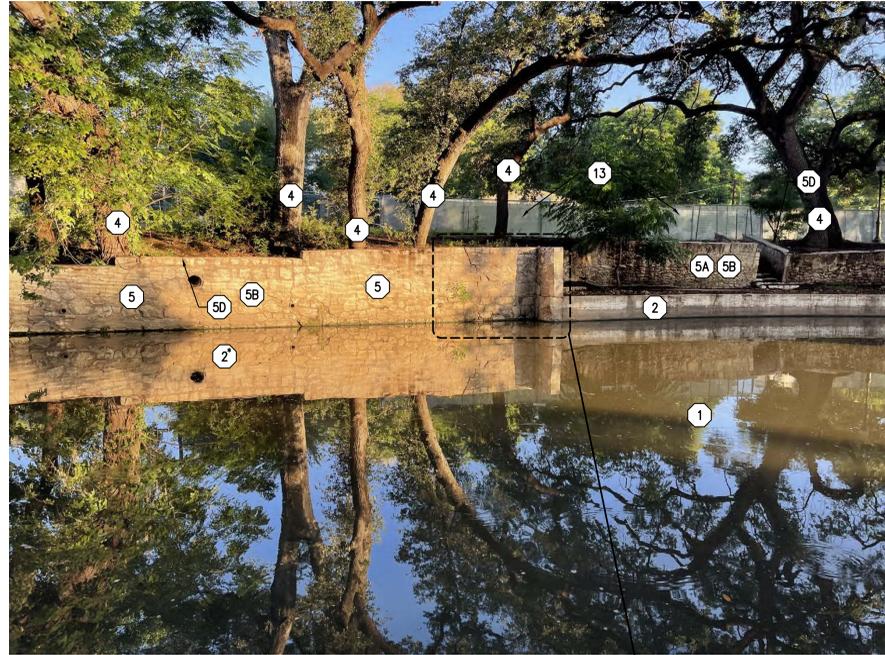
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SECTIONS

Drawing Number

S3.02

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* SUBGRADE, NOT SEEN IN PHOTO



1 PHOTO

TYPICAL
N.T.S.

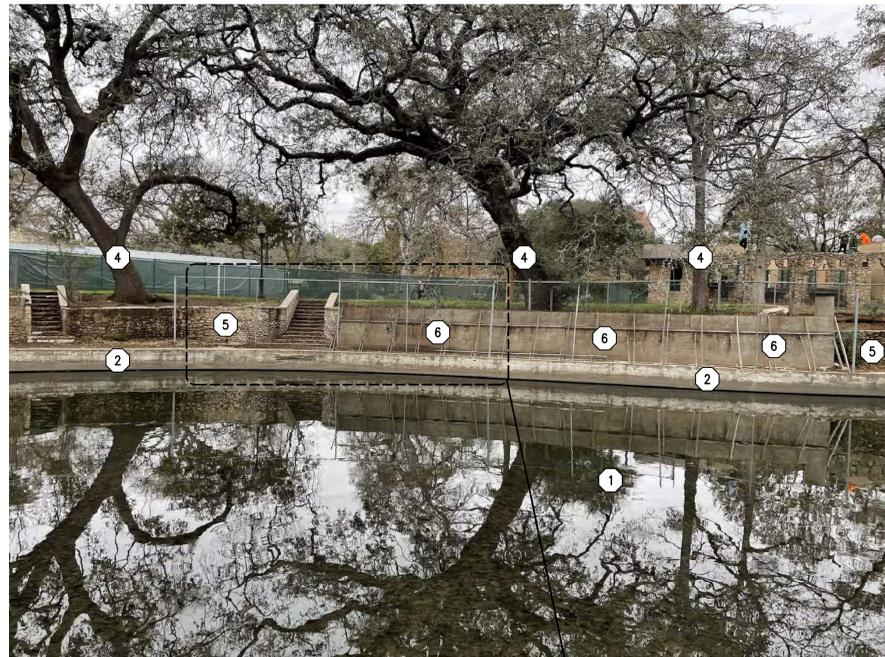


* SUBGRADE, NOT SEEN IN PHOTO



2 PHOTO

TYPICAL
N.T.S.



3 PHOTO

TYPICAL
N.T.S.



4 PHOTO

TYPICAL
N.T.S.

- KEYNOTES**
- 1 EXISTING CHANNEL BOTTOM TO REMAIN. EXISTING CHANNEL BOTTOM TO BE REPAIRED AS NECESSARY DURING CONSTRUCTION BASED ON SITE CONDITIONS EXPOSED DURING DEWATERING. ALL ORGANIC AND DELETERIOUS MATERIAL TO BE REMOVED FROM THE CHANNEL AFTER DEWATERING TO ALLOW FOR FULL ASSESSMENT OF THE EXISTING CONCRETE CHANNEL. PRECAUTIONS TO BE TAKEN DURING CONSTRUCTION TO PREVENT FURTHER DAMAGE TO THE EXISTING CHANNEL. CONTRACTOR RESPONSIBLE FOR ALL DAMAGE BEYOND EXISTING DAMAGE, CAUSED BY CONSTRUCTION ACCESS.
 - 2 EXISTING CONCRETE CHANNEL WALL TO REMAIN.
 - 3 EXISTING CONCRETE WALKWAY SLAB TO BE REMOVED AND REPLACED WITH NEW CONCRETE SLAB. EXISTING CHANNEL WALL TO BE BACKED WITH SHADOW WALL BELOW NEW WALKWAY SLAB PER STRUCTURAL DETAILS.
 - 4 TREES/VEGETATION TO BE REMOVED. ALL TREE/VEGETATION REMOVAL TO BE COMPLETED ACCORDING TO LANDSCAPING/TREE REMOVAL AND MITIGATION DRAWINGS.
 - 5 EXISTING STONE RETAINING WALL TO REMAIN AND BE ANCHORED TO AND SUPPORTED BY A NEW CAST-IN-PLACE CONCRETE "SHADOW WALL" BEHIND THE EXISTING STONE WALL. ALL STONE WALLS TO BE ANCHORED TO NEW "SHADOW WALL" BY MEANS DEPICTED IN DETAILS WITHIN THIS SET OF DRAWINGS.
 - A. REALIGN - EXISTING RETAINING WALL TO REMAIN AND BE REALIGNED TO A MORE VERTICAL POSITION. FIELD VERIFY VERTICAL ALIGNMENT, WALLS SECTIONS FIELD VERIFIED TO BE LEANING OUTWARD TOWARDS THE CHANNEL/RIVER SHALL BE ATTEMPTED TO BE REALIGNED TO A MORE VERTICAL POSITION. ALL ATTEMPTS TO REALIGN WALLS VERTICALLY SHALL BE LIMITED TO NON-DESTRUCTIVE METHODS.
 - B. REPOINTING - CRACKS IN EXISTING STONE WALLS SHALL BE REPOINTED WITH MASONRY MORTAR AS SPECIFIED IN SPECIFICATIONS SECTION 040342 HISTORIC STONE MASONRY REPAIR AND REPOINTING.
 - C. NEWLY BONDED STONE PIECES/SECTIONS - EXISTING STONE PIECES THAT ARE BROKEN AND/OR SEPARATED FROM THE EXISTING STONE WALL OR SECTIONS OF WALL THAT ARE BROKEN SHALL BE REBONDED WITH ALIGNED STONE WALL SECTIONS WITH MASONRY MORTAR AS SPECIFIED IN SPECIFICATIONS SECTION 040342 HISTORIC STONE MASONRY REPAIR AND REPOINTING.
 - D. CEMENTITIOUS CAP - REPAIRS TO ANY EXISTING CEMENTITIOUS CAP ON EXISTING STONE WALLS SHALL BE REPAIRED OR RECONSTRUCTED WITH MASONRY MORTAR AS SPECIFIED IN SPECIFICATIONS SECTION 040342 HISTORIC STONE MASONRY REPAIR AND REPOINTING.
 - E. TOP OF EXISTING WALL - DO NOT ADD TO THE HEIGHT OF THE EXISTING WALL. REALIGNMENT OF THE WALL INTO A MORE VERTICAL POSITION IS NOT CONSIDERED ALTERING THE HEIGHT OF THE EXISTING WALL.
 - 5A NEW STONE WALL TO BE CONSTRUCTED UTILIZING RECLAIMED/SALVAGED STONE AND NEW STONE USING HISTORICAL CONSTRUCTION ALLOWABLE METHODS OUTLINED WITHIN SPECIFICATIONS. NEW STONE WALL TO BE BACKED AND ANCHORED TO NEW CAST-IN-PLACE CONCRETE "SHADOW WALL" SHOWN IN DETAILS WITHIN THIS STRUCTURAL SET. OWNER WILL PROVIDE MAJORITY OF SALVAGED STONE. CONTRACTOR MAY HAVE TO SUPPLEMENT WITH SAME TO FULLY CONSTRUCT.
 - 5B FALLED EXISTING CONCRETE CHANNEL WALL TO BE REMOVED AND REPLACED WITH NEW CONCRETE PER DETAILS WITHIN THIS STRUCTURAL SET. MULTIPLANAR FAILURE OF CONCRETE CAUSED BY EXPOSURE TO SCOURING FORCES OF RIVER.
 - 5C EXISTING FALLEN STONE WALL SECTION TO BE RECLAIMED AND LIFTED BACK INTO ALIGNMENT WITH EXISTING STONE WALL. NEW CAST-IN-PLACE CONCRETE WALL TO BE PLACED BEHIND EXISTING STONE WALL FOR SUPPORT AND ANCHORAGE.
 - 5D EXISTING PUMP HOUSE FOUNDATION TO BE REMOVED AND REPLACED WITH CONCRETE UNDERPINNING AS DETAILED ON S2.01. EXISTING STRUCTURE TO BE SHORED PRIOR TO COMMENCEMENT OF UNDERPINNING.
 - 6 EXISTING PUMP HOUSE. NO STRUCTURAL WORK ABOVE FOUNDATION TO BE COMPLETED IN THIS PHASE. TEMPORARY SHORING DURING FOUNDATION UNDERPINNING TO BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - 7 EXISTING CONCRETE AND/OR MASONRY STAIRS NOT INDICATED TO BE PORTIONS OF HISTORICAL CONSTRUCTION TO BE REMOVED IN ENTIRETY AND REPLACED WITH NEW CAST-IN-PLACE CONCRETE STAIRS. REFER TO LANDSCAPE DRAWINGS FOR EXACT LOCATIONS OF PORTIONS OF STAIRS TO REMAIN.
 - 8 EXISTING CONCRETE RAMPS TO REMAIN IN PLACE.
 - 9 NOT IN SCOPE
 - 10 EXISTING STONE WALL TO BE DEMOLISHED AT JOINT OF ORIGINAL WALL & NEWER WALL & BE REBUILT WITH CONCRETE SHADOW WALL
- * ITEMS LABELED AS NOTE 5 OR 5 SUBNOTE MAY HAVE MORE THAN ONE APPLICABLE SUBNOTE BASED ON CONDITIONS ENCOUNTERED AT TIME OF CONSTRUCTION

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NOTES AND REFERENCES:
ACCIDENTAL DAMAGE - CONTACT THE OWNER AND DESIGN TEAM IN THE EVENT OF DAMAGE TO THE EXISTING WALLS OR ADJACENT SITE FEATURES THAT RESULT IN WALLS SECTIONS BECOMING DISLODGED OR FALLING INTO THE CHANNEL. ALLOW FOR DESIGN TEAM TO ASSESS DAMAGE TO WALL AND ADJACENT FEATURES AND COORDINATE WITH REQUIRED PARTIES PRIOR TO ATTEMPTING REPAIRS.
FOR ALL WORK RELATED TO THE REMOVAL, DISMANTLING, CLEANING, REPAIR AND TREATMENT OF EXISTING STRUCTURES REFER TO THE FOLLOWING SPECIFICATIONS FOR ALL ALLOWABLE METHODS AND MATERIALS:
GENERAL HISTORIC TREATMENT PROCEDURES: SPECIFICATIONS SECTION 013591 HISTORIC TREATMENT PROCEDURES

REMOVAL AND DISMANTLING OF STONE: SPECIFICATIONS SECTION 042936 HISTORIC REMOVAL AND DISMANTLING

CLEANING OF STONE: SPECIFICATIONS SECTION 040310 HISTORIC STONE MASONRY CLEANING

REPAIR OF STONE: SPECIFICATIONS SECTION 040342 HISTORIC STONE MASONRY REPAIR AND REPOINTING & 040515 PREPARING LIME MORTAR FOR HISTORIC MASONRY

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DATE: 12/15/2022



Shawn Franke

Revisions

Date
11 JANUARY 2023

Phase
95% CONSTRUCTION DOCUMENTS

Job Number
CN05701

Scale North

Drawing Title
PHOTO SURVEY & KEYNOTES

Drawing Number

S4.00

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4
S4.05

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KEYNOTES

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- 4 TREES/VEGETATION TO BE REMOVED. ALL TREE/VEGETATION REMOVAL TO BE COMPLETED ACCORDING TO LANDSCAPING/TREE REMOVAL AND MITIGATION DRAWINGS.
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 - B. REPOINTING - CRACKS IN EXISTING STONE WALLS SHALL BE REPOINTED WITH MASONRY MORTAR AS SPECIFIED IN SPECIFICATIONS SECTION 040342 HISTORIC STONE MASONRY REPAIR AND REPOINTING.
 - C. NEWLY BONDED STONE PIECES/SECTIONS - EXISTING STONE PIECES THAT ARE BROKEN AND/OR SEPARATED FROM THE EXISTING STONE WALL OR SECTIONS OF WALL THAT ARE BROKEN SHALL BE REBONDED WITH ALIGNED STONE WALL SECTIONS WITH MASONRY MORTAR AS SPECIFIED IN SPECIFICATIONS SECTION 040342 HISTORIC STONE MASONRY REPAIR AND REPOINTING.
 - D. CEMENTITIOUS CAP - REPAIRS TO ANY EXISTING CEMENTITIOUS CAP ON EXISTING STONE WALLS SHALL BE REPAIRED OR RECONSTRUCTED WITH MASONRY MORTAR AS SPECIFIED IN SPECIFICATIONS SECTION 040342 HISTORIC STONE MASONRY REPAIR AND REPOINTING.
 - E. TOP OF EXISTING WALL - DO NOT ADD TO THE HEIGHT OF THE EXISTING WALL. REALIGNMENT OF THE WALL INTO A MORE VERTICAL POSITION IS NOT CONSIDERED ALTERING THE HEIGHT OF THE EXISTING WALL.
- 5A NEW STONE WALL TO BE CONSTRUCTED UTILIZING RECLAIMED/SALVAGED STONE AND NEW STONE USING HISTORICAL CONSTRUCTION ALLOWABLE METHODS OUTLINED WITHIN SPECIFICATIONS. NEW STONE WALL TO BE BACKED AND ANCHORED TO NEW CAST-IN-PLACE CONCRETE "SHADOW" WALL SHOWN IN DETAILS WITHIN THIS STRUCTURAL SET. OWNER WILL PROVIDE MAJORITY OF SALVAGED STONE. CONTRACTOR MAY HAVE TO SUPPLEMENT WITH SAME TO FULLY CONSTRUCT.
- 5B FAILED EXISTING CONCRETE CHANNEL WALL TO BE REMOVED AND REPLACED WITH NEW CONCRETE PER DETAILS WITHIN THIS STRUCTURAL SET. MULTIPLANAR FAILURE OF CONCRETE CAUSED BY EXPOSURE TO SCOURING FORCES OF RIVER.
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REPAIR OF STONE: SPECIFICATIONS SECTION 040342 HISTORIC STONE MASONRY REPAIR AND REPOINTING & 040515 PREPARING LIME MORTAR FOR HISTORIC MASONRY

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Revisions

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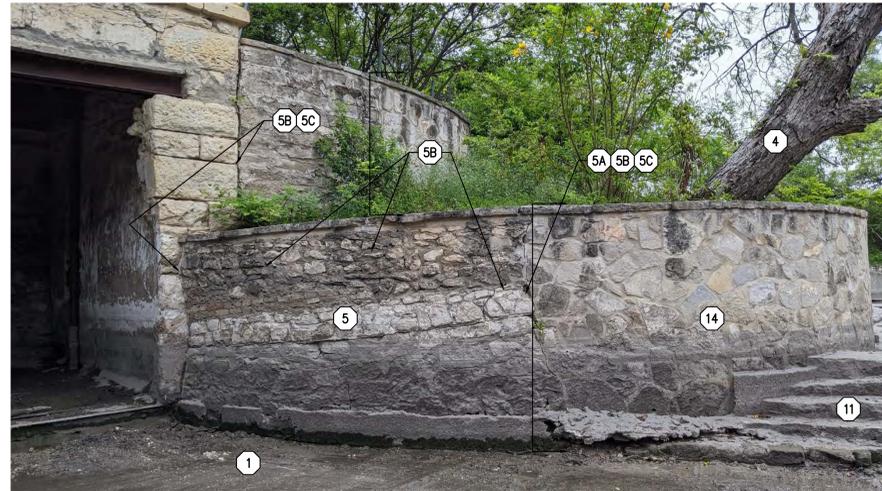
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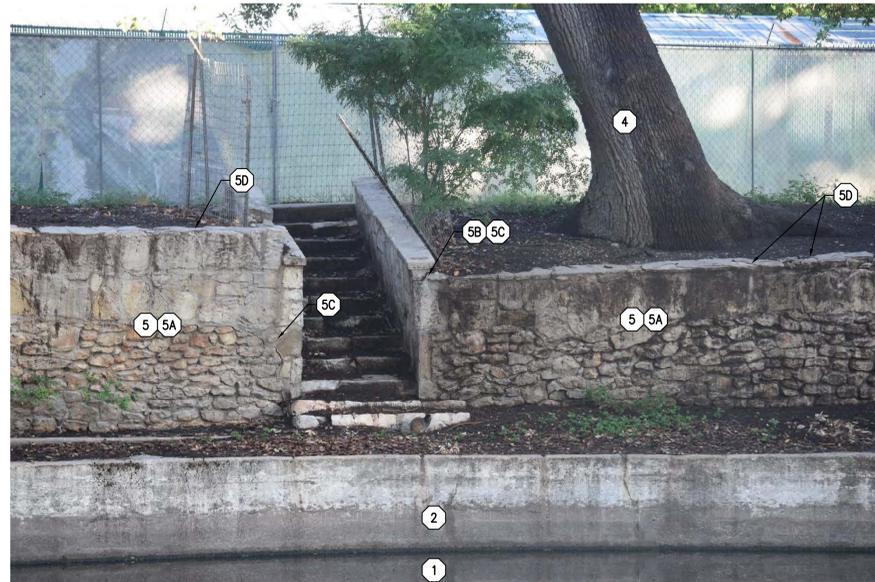
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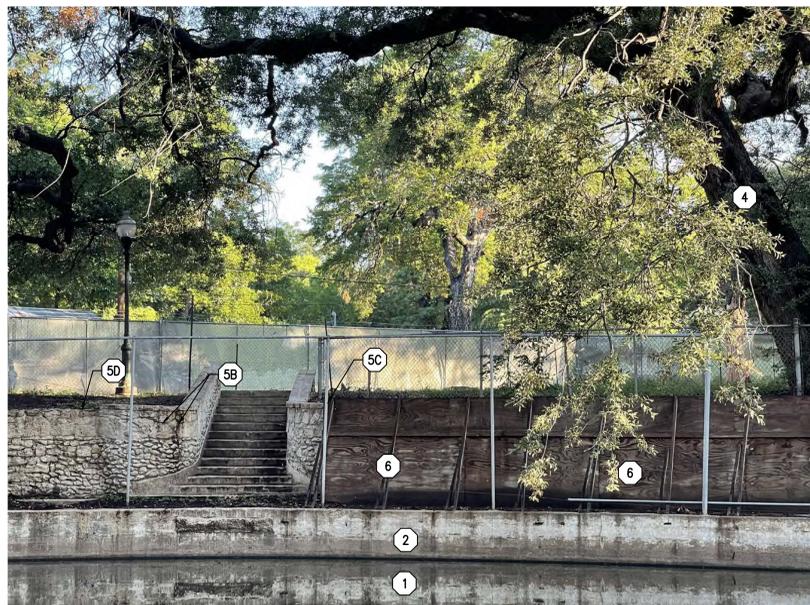
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REMOVAL AND DISMANTLING OF STONE: SPECIFICATIONS SECTION 024296 HISTORIC REMOVAL AND DISMANTLING

CLEANING OF STONE: SPECIFICATIONS SECTION 040310 HISTORIC STONE MASONRY CLEANING

REPAIR OF STONE: SPECIFICATIONS SECTION 040342 HISTORIC STONE MASONRY REPAIR AND REPOINTING & 040515 PREPARING LIME MORTAR FOR HISTORIC MASONRY



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2 PHOTO

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N.T.S.



3 PHOTO

TYPICAL
N.T.S.



4 PHOTO

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N.T.S.

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- 5B FAILED EXISTING CONCRETE CHANNEL WALL TO BE REMOVED AND REPLACED WITH NEW CONCRETE PER DETAILS WITHIN THIS STRUCTURAL SET. MULTI-PLANAR FAILURE OF CONCRETE CAUSED BY EXPOSURE TO SCOURING FORCES OF RIVER.
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Stamp DATE: 12/15/2022



Revisions

Date

11 JANUARY 2023

Phase

95% CONSTRUCTION DOCUMENTS

Job Number

CN05701

Scale

North

Drawing Title

PHOTO SURVEY & KEYNOTES

Drawing Number

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Shawn Franke

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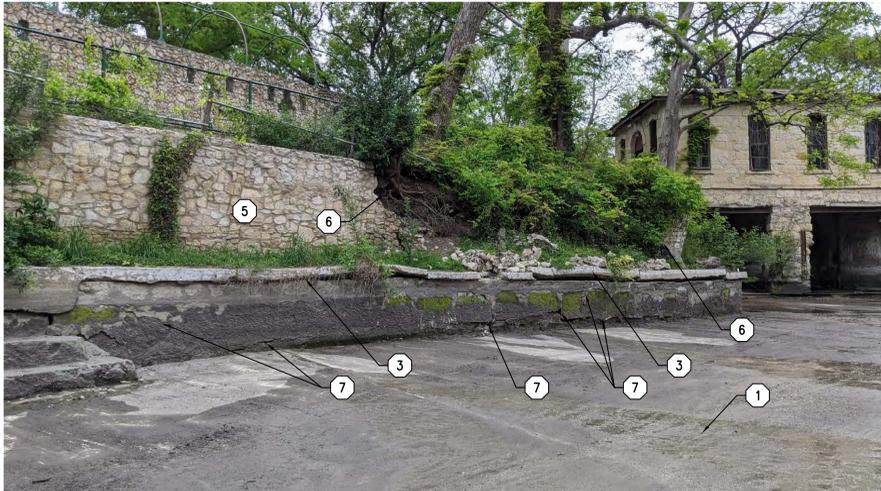
Drawing Title

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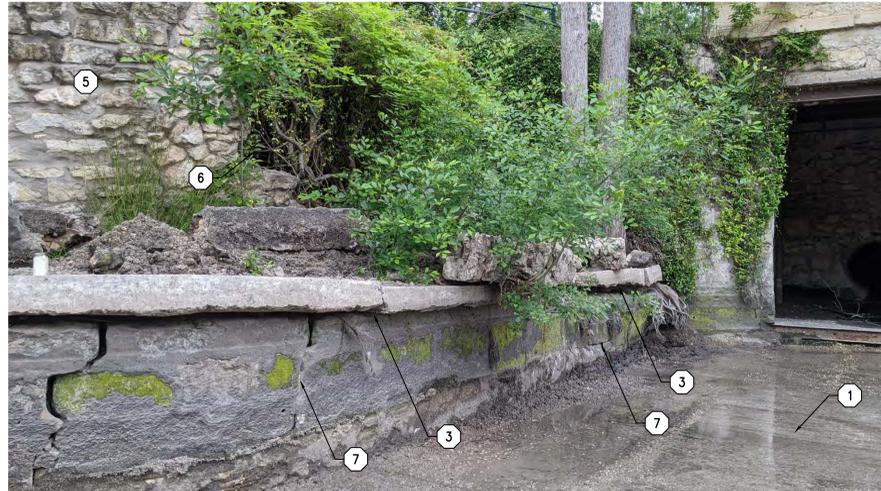
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