



Construction Documents

Volume 1

GENERAL
SURVEY
CIVIL
LANDSCAPE
STRUCTURAL
ARCHITECTURAL

Asian Art Museum Expansion & Renovation

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SAM ASIAN
ART
MUSEUM

Asian Art Museum Expansion & Renovation
Volunteer Park / 1400 E Prospect /
Seattle, WA 98112

Submittal

Revisions

No. Date Description

Sheet

Title

Sheet

Number

Construction
Documents

Drawn: Author:
Checked: Checker:
LMN Proj No: 16028.01
Date: 6/23/17

Cover Sheet

G000.1

PROJECT INFORMATION

PROJECT ADDRESS
VOLUNTEER PARK
1400 E PROSPECT STREET
SEATTLE, WA 98112

PROPERTY OWNER
CITY OF SEATTLE
SEATTLE PARKS AND RECREATION
800 MAYNARD AVE S, 3RD FLOOR
SEATTLE, WA 98134
CONTACT: DAVID GRAVES
DAVID.GRAVES@SEATTLE.GOV
206-884-7048

APPLICANT
SEATTLE ART MUSEUM
1300 1ST AVE
SEATTLE, WA 98101
CONTACT: RICHARD BECKERMAN
RICHARD@SEATTLEARTMUSEUM.ORG
206-434-3150

APPLICANT'S AGENT
LMN ARCHITECTS
801 2ND AVE, SUITE 501
SEATTLE, WA 98104
CONTACT: PAMELA TREVITHICK
PTREVITHICK@LMNARCHITECTS.COM
206-462-5460

DPD PROJECT NUMBERS
MJP: 3024753
CONSTRUCTION: 0529634

PARCEL NUMBER:
2925049087

LEGAL DESCRIPTION

Volunteer Park
The Northeast Quarter of the Northeast Quarter (NE 1/4 NE 1/4) of Section Twenty-nine (29) in Township Twenty-five (25) north (N) of Range Four (4) east (E), Willamette Meridian, also beginning at the northeast (NE) corner of the northeast quarter (NE 1/4) of Section Twenty-nine (29) in Township Twenty-five (25) north (N) of Range Four (4) east (E), Willamette Meridian, thence south one degree thirty-six minutes forty-eight seconds (1°36'48") west a distance of fourteen hundred thirty-three and fifty-two one-hundredths (1433.52) feet along the east line of Section 29 in Township 25 north Range 4 east, thence north (N) eighty-eight degrees eighteen minutes twenty-seven seconds (88°18'27") west a distance of four hundred eighty-two and ten one-hundredths (482.10) feet, thence north (N) eighty-eight degrees eighteen minutes thirty-one seconds (88°18'31") west a distance of two hundred seventy-two and five one-hundredths (272.05) feet, thence north (N) eighty-eight degrees eighteen minutes thirty-eight seconds (88°18'38") west a distance of two hundred seventy-two and four one-hundredths (272.04) feet, thence north (N) eighty-eight degrees eighteen minutes twenty-nine seconds (88°18'29") west a distance of three hundred eleven and seven one-hundredths (311.07) feet to a point on the west line of the northwest (NW) quarter of the northeast (NE) quarter of the northeast (NE) quarter of Section 29 in Township 25 north Range 4 east, thence north (N) one degree eighteen minutes twenty seconds (1°18'20") east, more or less, a distance of fourteen hundred five and sixty-nine one-hundredths (1405.69) feet, more or less, to a point on the north line of Section 29 in Township 25 north Range 4 east, thence south (S) eighty-nine degrees thirty minutes and five seconds (89°30'05") east a distance of one thousand three hundred forty-five (1345) feet, more or less, along the north line of Section 29 in Township 25 north Range 4 east to the point of beginning. Also the east one-half (E 1/2) of blocks E and F of Phinney's Addition to the City of Seattle as recorded in Vol. 1, Page 175 of King County Plats. Also the portion of Eleventh (11th) Avenue North in the City of Seattle from the north line of Furth's Addition to the City of Seattle and the north line of Phinney's Addition to the City of Seattle as vacated by ordinance 26795.

PROJECT DESCRIPTION:

Renovation of existing 50,345 sf museum with 13,905 sf addition. Project will also include landscape, hardscape and grading modifications associated with building expansion. Renovations include major systems, structural and exterior/interior finish upgrades.

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Code Modification or Alternate Request

Date Requested: February 7, 2017
Contact Information:
 Name: Jeremy Schoenfeld
 Mailing Address: LMN Architects, 801 2nd Ave, Suite 501, Seattle, WA 98104
 Phone Number: 206-682-3460
 Fax Number: 206-343-9388
 E-mail Address: jschoenfeld@lmnarchitects.com
Relationship to Project:
 Owner
 Design Professional
 Contractor

Project Information:
 AP Number: 6529634
 Address: 1400 E Prospect St
 Code Edition: 2015 SBC
Structure Information:
 Project Description: Alteration and addition to existing art museum
 Occupancy Group(s) Character: Assembly - Museum
 Type of Construction: II-B
 Number of Stories: 2
 Basements/ Mezzanines: 1 basement, 1 mech mezz
 Sprinkler Location: Throughout per NFPA 13

Code Modification Request:
 Ref. SBC 104.4. A code modification is a waiver of a code requirement, and is intended to provide flexibility to the building official where there are practical difficulties meeting specific code requirements so long as the intent of the code is accomplished.

- The requestor is expected to demonstrate:
- There are practical difficulties involved in strictly conforming to the provisions of the code; and
 - The modification conforms with the intent and purpose of the code; and
 - Together with other safety features of the building or other relevant circumstances, the modification will provide a reasonable level of strength, effectiveness, fire resistance, durability, safety, accessibility and sanitation.

When engaged for the project, the registered design professional in responsible charge shall submit the request for a code modification under their seal and signature, including a statement that in their professional opinion, the proposal is in conformance with the intent and purpose of the code and the modification will provide a reasonable level of strength, effectiveness, fire resistance, durability, safety, accessibility and sanitation.

Code Alternate Request:
 Ref. SBC 104.5. A code alternate is intended to provide for introduction of alternate materials, systems and methods for which the code did not anticipate, provisional upon the alternate complying with the code and providing an equivalent solution. Essentially, a code alternate is intended to meet a performance standard rather than a prescriptive standard.

The requestor is expected to demonstrate that the alternate does not conflict with the code and together with other safety features of the building or other relevant circumstances, will provide an equivalent level of strength, effectiveness, fire resistance, durability, safety, accessibility and sanitation.



When engaged for the project, the registered design professional in responsible charge shall submit the request for a code alternate under their seal and signature, including a statement that in their professional opinion, the alternate is equivalent to the code provisions. Please attach plans showing your proposal.

Washington State Seal and Signature
 6541 REGISTERED ARCHITECT
 JEREMY SCHOENFELD
 STATE OF WASHINGTON

Seattle DCI Use Only
 Approved
 Approved with Amendment
 Denied
 Reasons:
 Delayed egress acceptable due to security concerns in limited circumstances. Museum is considered unique.

Description of Alternate/ Modification (include reason for request):
 This is a request to allow delayed egress locks with a 30-second delay on exit-only doors serving museum uses in a Group A occupancy. An automatic sprinkler system will be provided per NFPA 13. The proposed delayed egress hardware would comply with 2015 SBC 1010.1.9.7 items 1 through 8.

Description of Code Requirement (include section):
 2015 SBC 1010.1.9.7. Delayed egress locking systems shall be permitted to be installed on doors serving any occupancy except Group A, E and H in buildings that are equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or an approved automatic smoke or heat detection system installed in accordance with Section 907. Delayed egress locks are permitted in libraries in both Group A and E occupancies in locations other than at main exit doors, and in Group E day care occupancies.

Justification (attach copies of any reference, test reports, expert opinions, etc.):
 The Seattle amendment to the referenced code section permits delayed egress locks at libraries in Group A occupancies. Museum use is substantially similar to library use in that they are both relatively unoccupied assembly occupancies with a need to provide additional security to prevent theft of items on display. A similar request was granted at the downtown Seattle Art Museum in 2004. In our professional opinion, this alternate is equivalent to the intent of the code provisions, and as demonstrated in this request meets the performance standard intent of the code.



Code Modification or Alternate Request

Date Requested: March 31, 2017
Contact Information:
 Name: Jeremy Schoenfeld
 Mailing Address: LMN Architects, 801 2nd Ave, Suite 501, Seattle, WA 98104
 Phone Number: 206-682-3460
 Fax Number: 206-343-9388
 E-mail Address: jschoenfeld@lmnarchitects.com
Relationship to Project:
 Owner
 Design Professional
 Contractor

Project Information:
 AP Number: 6529634
 Address: 1400 E Prospect St
 Code Edition: 2015 SBC
Structure Information:
 Project Description: Substantial alteration and addition to existing art museum
 Occupancy Group(s) Character: Assembly - Museum
 Type of Construction: II-B
 Number of Stories: 2
 Basements/ Mezzanines: 1 basement, 1 mech mezz
 Sprinkler Location: Throughout per NFPA 13

Code Modification Request:
 Ref. SBC 104.4. A code modification is a waiver of a code requirement, and is intended to provide flexibility to the building official where there are practical difficulties meeting specific code requirements so long as the intent of the code is accomplished.

- The requestor is expected to demonstrate:
- There are practical difficulties involved in strictly conforming to the provisions of the code; and
 - The modification conforms with the intent and purpose of the code; and
 - Together with other safety features of the building or other relevant circumstances, the modification will provide a reasonable level of strength, effectiveness, fire resistance, durability, safety, accessibility and sanitation.

When engaged for the project, the registered design professional in responsible charge shall submit the request for a code modification under their seal and signature, including a statement that in their professional opinion, the proposal is in conformance with the intent and purpose of the code and the modification will provide a reasonable level of strength, effectiveness, fire resistance, durability, safety, accessibility and sanitation.

Code Alternate Request:
 Ref. SBC 104.5. A code alternate is intended to provide for introduction of alternate materials, systems and methods for which the code did not anticipate, provisional upon the alternate complying with the code and providing an equivalent solution. Essentially, a code alternate is intended to meet a performance standard rather than a prescriptive standard.

The requestor is expected to demonstrate that the alternate does not conflict with the code and together with other safety features of the building or other relevant circumstances, will provide an equivalent level of strength, effectiveness, fire resistance, durability, safety, accessibility and sanitation.



When engaged for the project, the registered design professional in responsible charge shall submit the request for a code alternate under their seal and signature, including a statement that in their professional opinion, the alternate is equivalent to the code provisions. Please attach plans showing your proposal.

Washington State Seal and Signature
 6541 REGISTERED ARCHITECT
 JEREMY SCHOENFELD
 STATE OF WASHINGTON

Seattle DCI Use Only
 Approved
 Approved with Amendment
 Denied
 Reasons:

Description of Alternate/ Modification (include reason for request):
 See attached memo dated 3/31/17.

Description of Code Requirement (include section):
 See attached memo dated 3/31/17.

Justification (attach copies of any reference, test reports, expert opinions, etc.):
 See attached memo dated 3/31/17, Exhibit 1 dated 3/24/17, and mechanical drawings dated 3/24/17.



LMN
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6541 REGISTERED ARCHITECT
 JEREMY SCHOENFELD
 STATE OF WASHINGTON

1400 E Prospect St
 Seattle, WA 98112

A/P# 6529634: Asian Art Museum
 Code Modification Request: Duct Penetrations
 3/31/17

It is based upon non-separated occupancies so no fire resistive rated separations are required between the different occupancies.

Seattle Existing Building Code 304.1 requires that substantial alterations shall conform to the requirements of SBC section 717. Requirements for ducts that penetrate floors in non-rated construction are provided in Section 717.6.3:

717.6.3 Nonfire-resistance-rated floor assemblies. Duct systems constructed of approved materials in accordance with the International Mechanical Code that penetrate nonfire-resistance-rated floor assemblies shall be protected by any of the following methods:

- A shaft enclosure in accordance with Section 713.
- The duct connects not more than two stories, and the annular space around the penetrating duct is protected with an approved noncombustible material that restricts the free passage of flame and the products of combustion.
- In floor assemblies composed of noncombustible materials, a shaft shall not be required where the duct connects not more than three stories, the annular space around the penetrating duct is protected with an approved noncombustible material that restricts the free passage of flame and the products of combustion and a fire damper is installed at each floor line.

Ducts that only connect two stories are not required to be provided with fire dampers. The annular space where the duct penetrates the non-rated floor is required to be filled with approved material to restrict the free pass of flame and smoke.

Ducts that connect three stories are also required to have the annular space filled with approved material. A fire damper is also required to be installed at each of the floor lines. Since the floors are not required to be fire resistive rated, the fire dampers are not installed in supporting construction that is rated.

Justification (attach copies of any reference, test reports, expert opinions, etc.):
 SBC 101.11 allows the code official to waive, modify, or allow alternates to specific requirements which are determined to be impractical. The following conditions make full compliance with SBC 717.6.3 impractical:

- It is not possible to provide multiple air handlers to serve the existing building. The Level 1 central mechanical room is the only space inside the building large enough to accommodate the AHU and also allow duct routing to both the north and south sides of the museum. The roof is not an option since the museum is a local and national historic landmark, and any rooftop AHU would be highly visible.
- The cost of providing the 130 fire dampers that would be required to protect every existing duct opening at the Level 3 slab is significant and disproportionate to the minor benefit they provide.
- The duct penetrations at the existing portion of Level 3 slab fall into three categories, all of which present difficulties. (See enlarged plans on sheet M203.)
 - Existing ducts with multiple ducts are too large to allow installation of fire dampers in the floor consistent with their listing or to provide firestopping materials around ducts.
 - Existing floor openings at the perimeter of Level 3 and the Garden Court are recessed into the exterior wall making installation of fire dampers impossible without reducing the duct size significantly (which would require increased air velocity resulting in

A/P# 6529634: Asian Art Museum
 Code Modification Request: Duct Penetrations
 3/31/17

additional noise and decreased energy efficiency) or enlarging the floor opening (which would require structural changes to the floor slab, and increased wall thicknesses which precludes preservation of historic elements per SEBC 306.1).

- Fire dampers added at most Level 3 floor openings would only be accessible from secure, sensitive art storage and conservation areas or protected historic spaces on Level 2. Providing maintenance access to fire dampers in these locations would be a hardship for the museum.

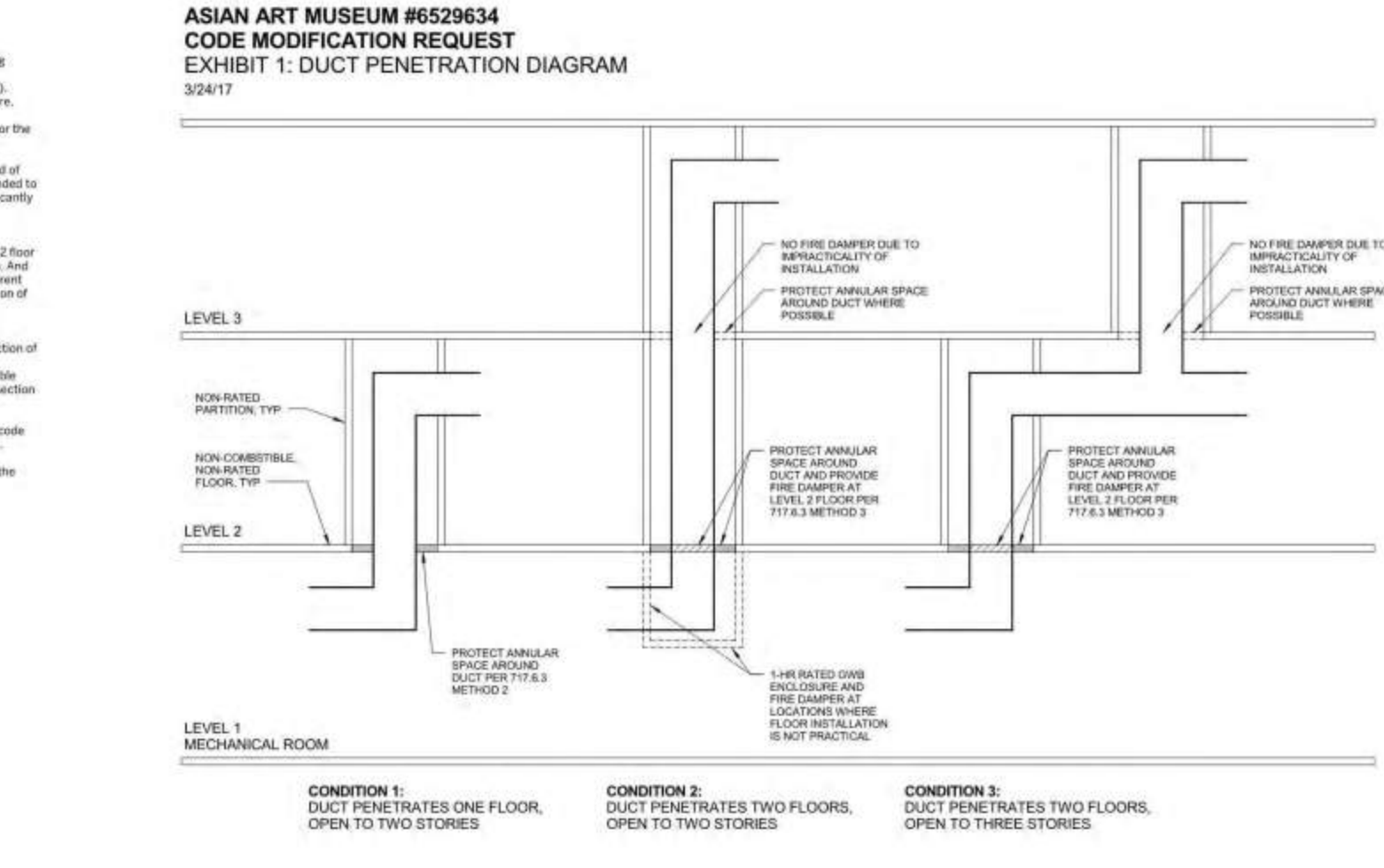
The purpose of the annular fill and fire damper in three story connection is to reduce the spread of fire and smoke within the concealed wall cavity, unlike standard shaft construction that is intended to prevent the passage of fire and smoke. The code acknowledges the level of protection is significantly less in buildings that have non-rated floor assemblies. The floors themselves are allowed to be lightweight construction without a fire resistive rating.

The addition of automatic fire sprinklers throughout the building and fire dampers at the Level 2 floor slab both represent a significant improvement to life safety compared to the existing condition. And no new penetrations are being added that create a condition that is less compliant with the current code than the existing building. The proposed HVAC system is fully ducted at the existing portion of the building, and the ductwork is noncombustible.

The proposed code modification omits fire dampers at the Level 3 floor slab for the reasons of impracticality listed above. However, when the fire damper at the Level 2 slab is closed, the section of duct above the damper acts as a duct that penetrates just one floor (which does not require a damper). Providing a second damper at Level 3 provides little benefit. Therefore it is a reasonable modification of the code to apply the less restrictive requirements of 717.6.3 method 2 to this section of duct and not require a fire damper at the Level 3 slab.

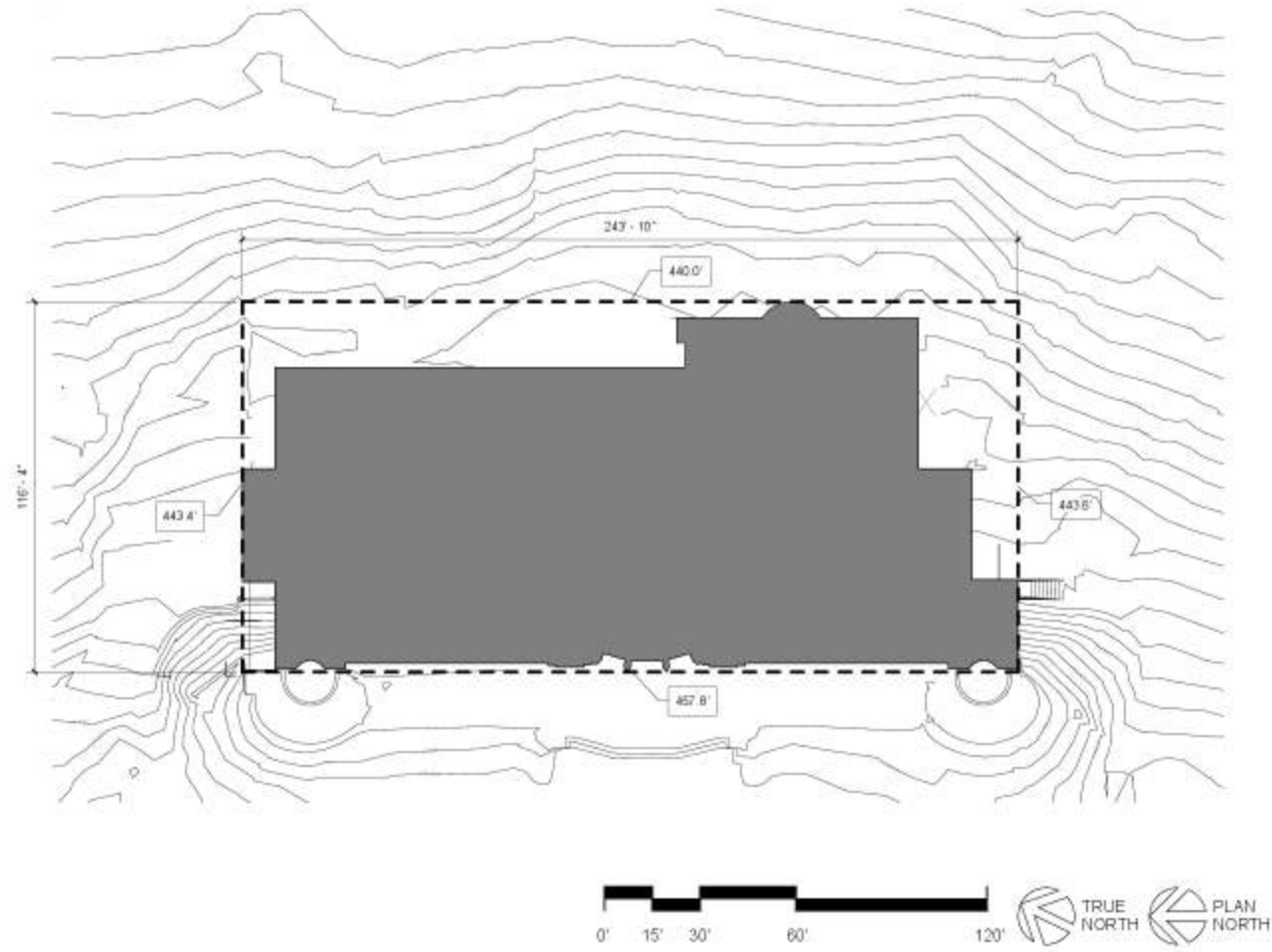
In our professional opinion, this proposal is in conformance with the intent and purpose of the code and the modification will provide a reasonable level of effectiveness, fire resistance, and safety.

Please refer to the attached drawings which describe the full HVAC system in detail, including the proposed location of all fire dampers.



EXISTING FOOTPRINT			
Segment	Length	Mid Point Elevation	Length x Elevation
WEST	243' 10"	457.8'	111626.90
NORTH	116' 4"	443.4'	51582.20
EAST	243' 10"	440.0'	107286.67
SOUTH	116' 4"	443.8'	51605.47
Total	720' 4"		322101.23
Average grade level		447.2'	

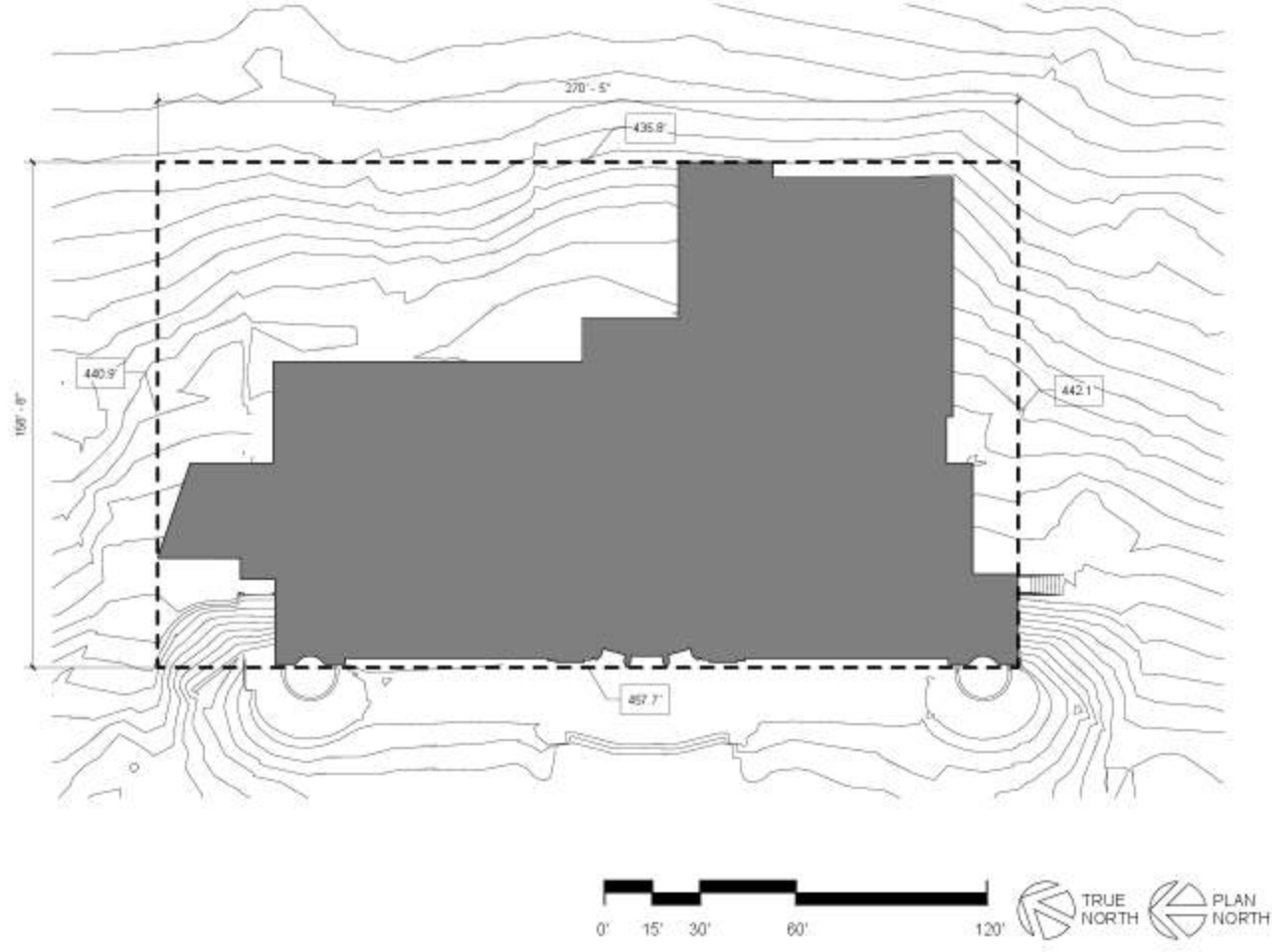
Calculated per Formula 2 as shown in DPD Director's Rule 4-2012 using existing grades shown on survey dated 10/19/15.



2 AVERAGE GRADE LEVEL CALCULATION - EXISTING FOOTPRINT
G010 1" = 30'-0"

PROPOSED FOOTPRINT			
Segment	Length	Mid Point Elevation	Length x Elevation
WEST	270' 5"	457.7'	123769.71
NORTH	158' 8"	440.9'	69956.13
EAST	270' 5"	435.8'	117847.58
SOUTH	158' 8"	442.1'	70146.53
Total	658' 2"		381719.96
Average grade level		444.8'	

Calculated per Formula 2 as shown in DPD Director's Rule 4-2012 using existing grades shown on survey dated 10/19/15.



3 AVERAGE GRADE LEVEL CALCULATION - PROPOSED FOOTPRINT
G010 1" = 30'-0"



1 LAND USE MAP
G010 1" = 200'-0"

Please BIDDY 12/19/17 PM



Asian Art Museum Expansion & Renovation
Volunteer Park / 1400 E Prospect / Seattle, WA 98112

Submittal

Revisions	No.	Date	Description
A	9/19/17		PERMIT CORRECTIONS 1

Sheet Title Sheet Number

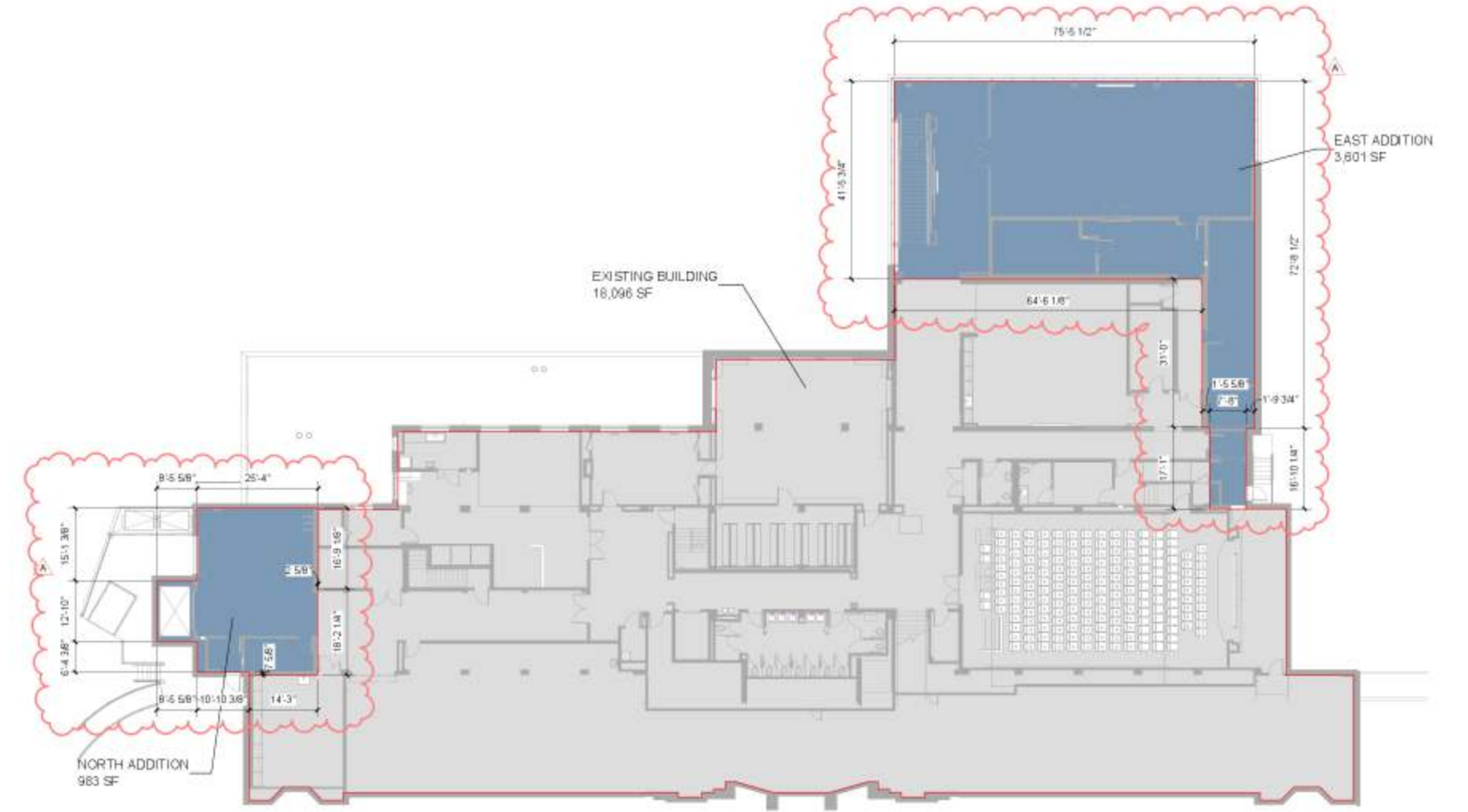
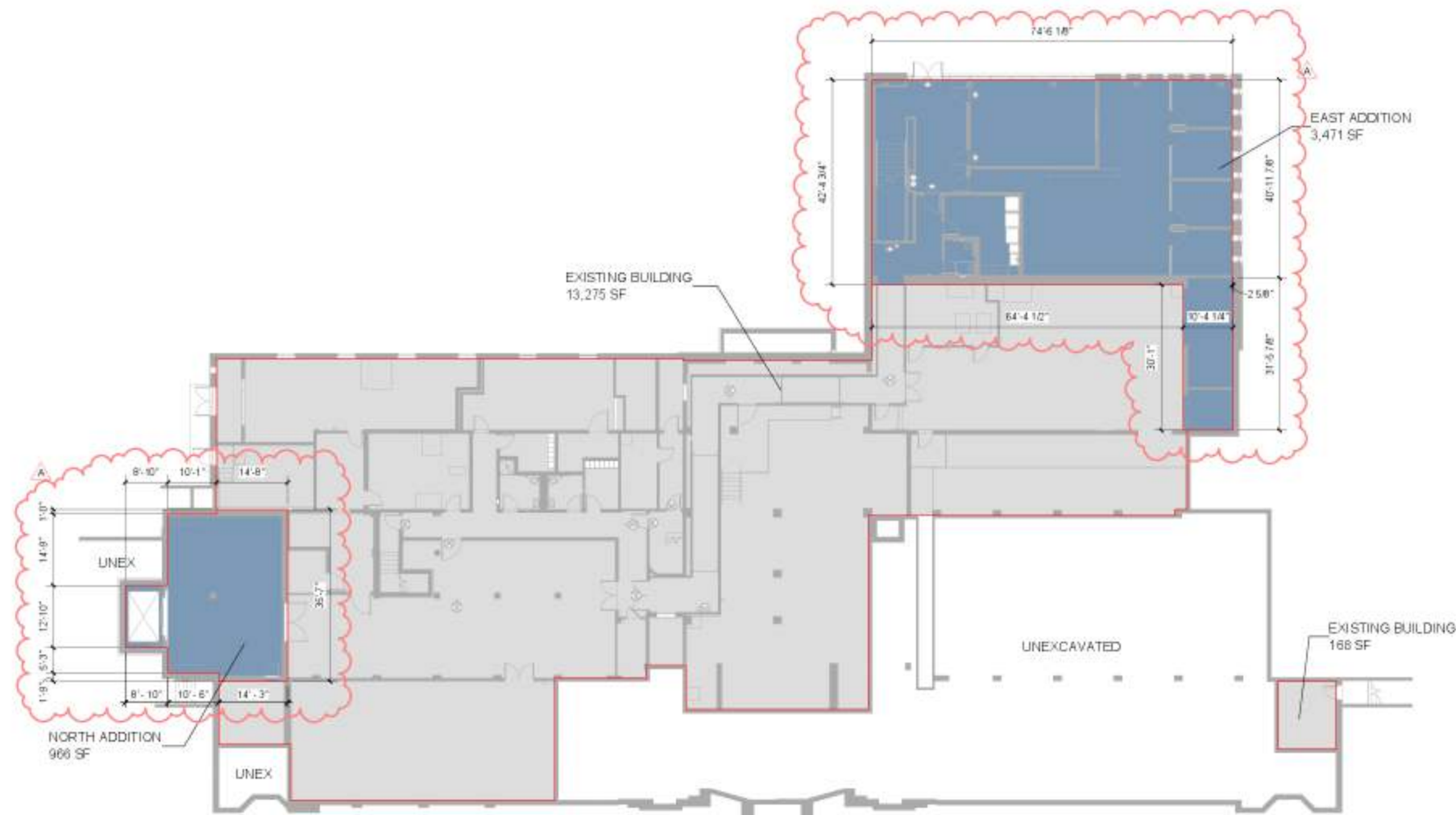
Construction Documents

Drawn: Author
Checked: Checker
LMN Proj No: 16028.01
Date: 6/23/17

Land Use Diagrams

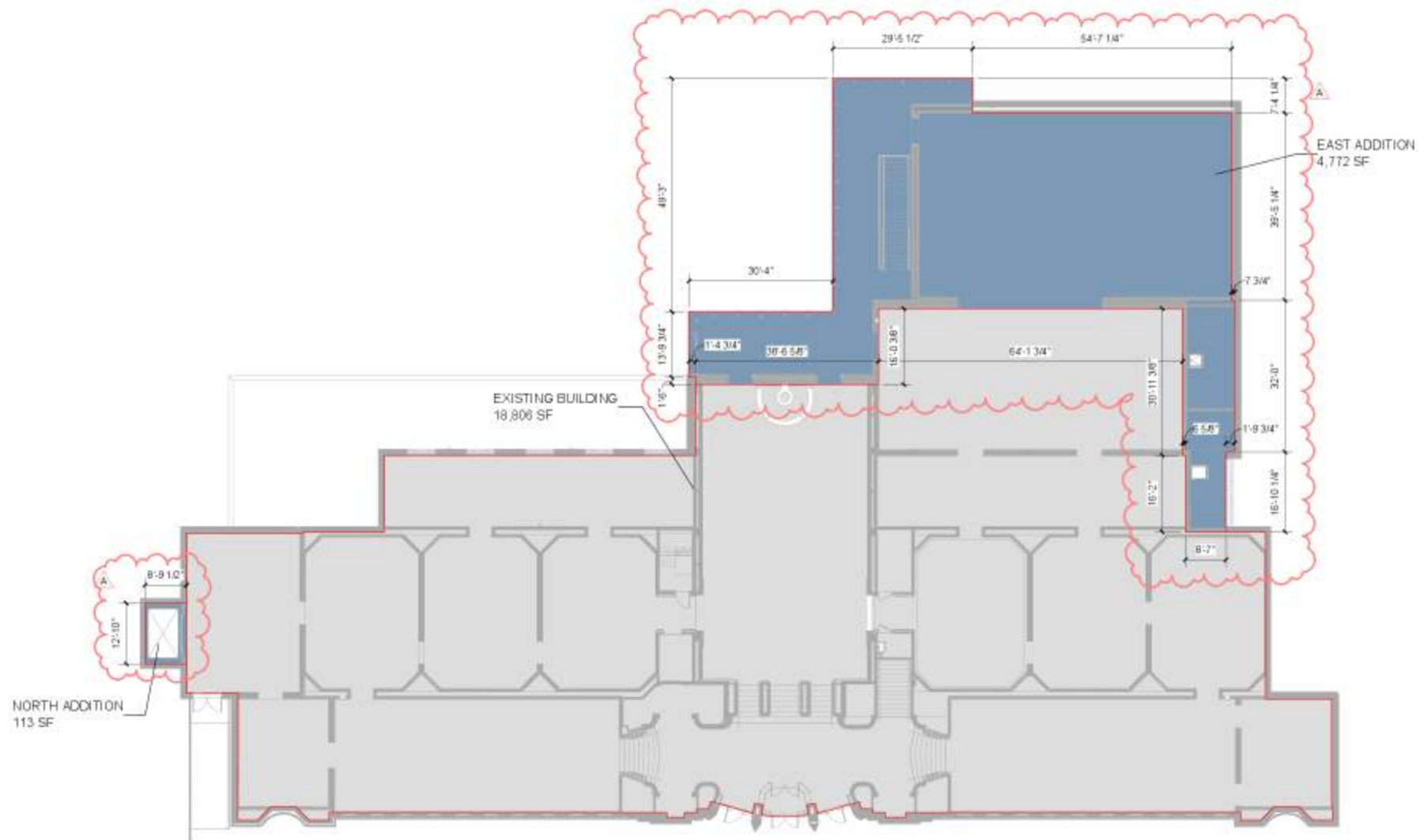
G010

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T 206 882 3480
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1 LEVEL 1 - LAND USE AREA PLAN
1/16" = 1'-0"

2 LEVEL 2 - LAND USE AREA PLAN
1/16" = 1'-0"



3 LEVEL 3 - LAND USE AREA PLAN
1/16" = 1'-0"

LAND USE AREAS:
EXISTING / NEW

LEVEL	NAME	AREA
LEVEL 1	EXISTING BUILDING	13,275 SF
LEVEL 1	EXISTING BUILDING	168 SF
LEVEL 2	EXISTING BUILDING	18,096 SF
LEVEL 3	EXISTING BUILDING	18,806 SF
EXISTING BUILDING		50,345 SF
EXISTING		50,345 SF
LEVEL 1	EAST ADDITION	3,471 SF
LEVEL 2	EAST ADDITION	3,801 SF
LEVEL 3	EAST ADDITION	4,772 SF
EAST ADDITION		11,844 SF
LEVEL 1	NORTH ADDITION	966 SF
LEVEL 2	NORTH ADDITION	983 SF
LEVEL 3	NORTH ADDITION	113 SF
NORTH ADDITION		2,062 SF
ADDITIONS		13,905 SF
Grand total		64,250 SF

LAND USE AREAS:
BY LEVEL

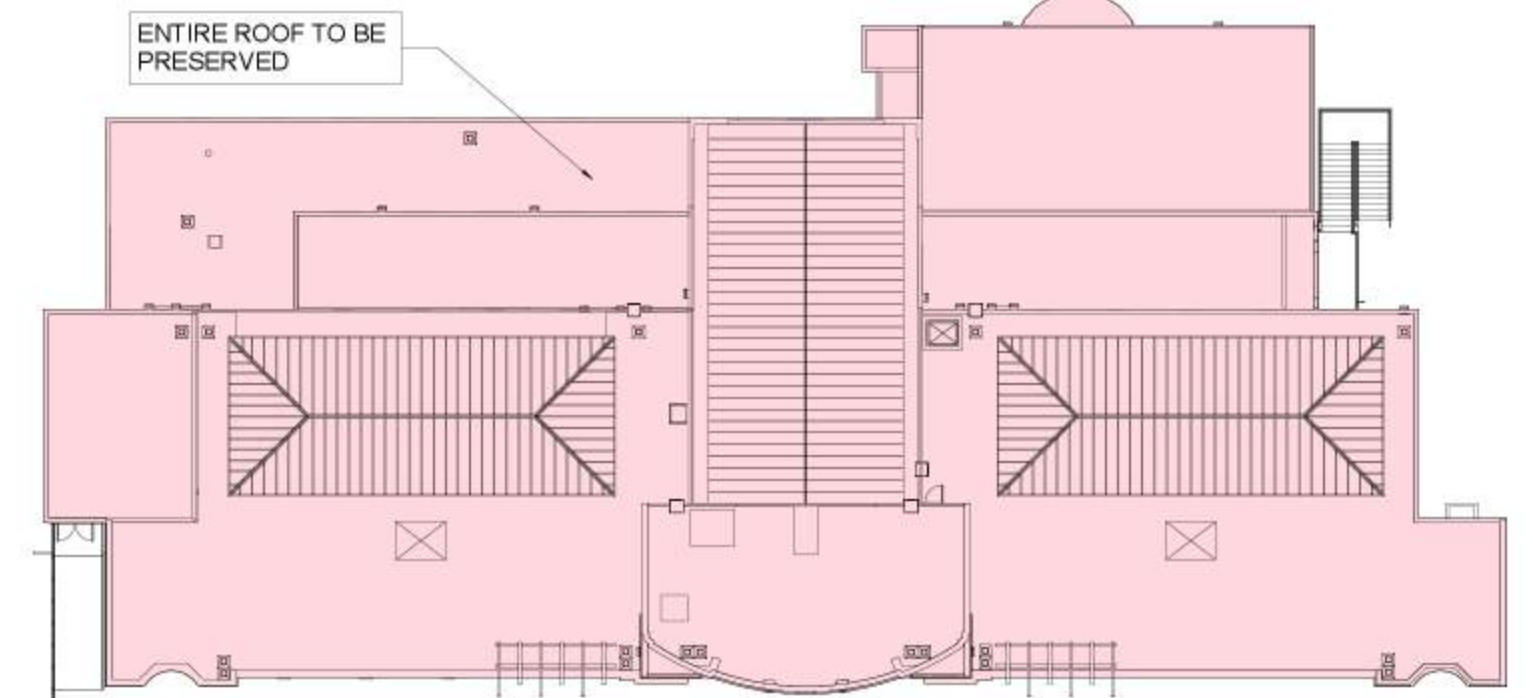
LEVEL	NAME	AREA
LEVEL 1	EXISTING BUILDING	13,275 SF
LEVEL 1	EAST ADDITION	3,471 SF
LEVEL 1	NORTH ADDITION	966 SF
LEVEL 1	EXISTING BUILDING	168 SF
LEVEL 1		17,880 SF
LEVEL 2	EXISTING BUILDING	18,096 SF
LEVEL 2	EAST ADDITION	3,801 SF
LEVEL 2	NORTH ADDITION	983 SF
LEVEL 2		22,880 SF
LEVEL 3	EXISTING BUILDING	18,806 SF
LEVEL 3	EAST ADDITION	4,772 SF
LEVEL 3	NORTH ADDITION	113 SF
LEVEL 3		23,691 SF
Grand total		64,250 SF

P:\12193\FM





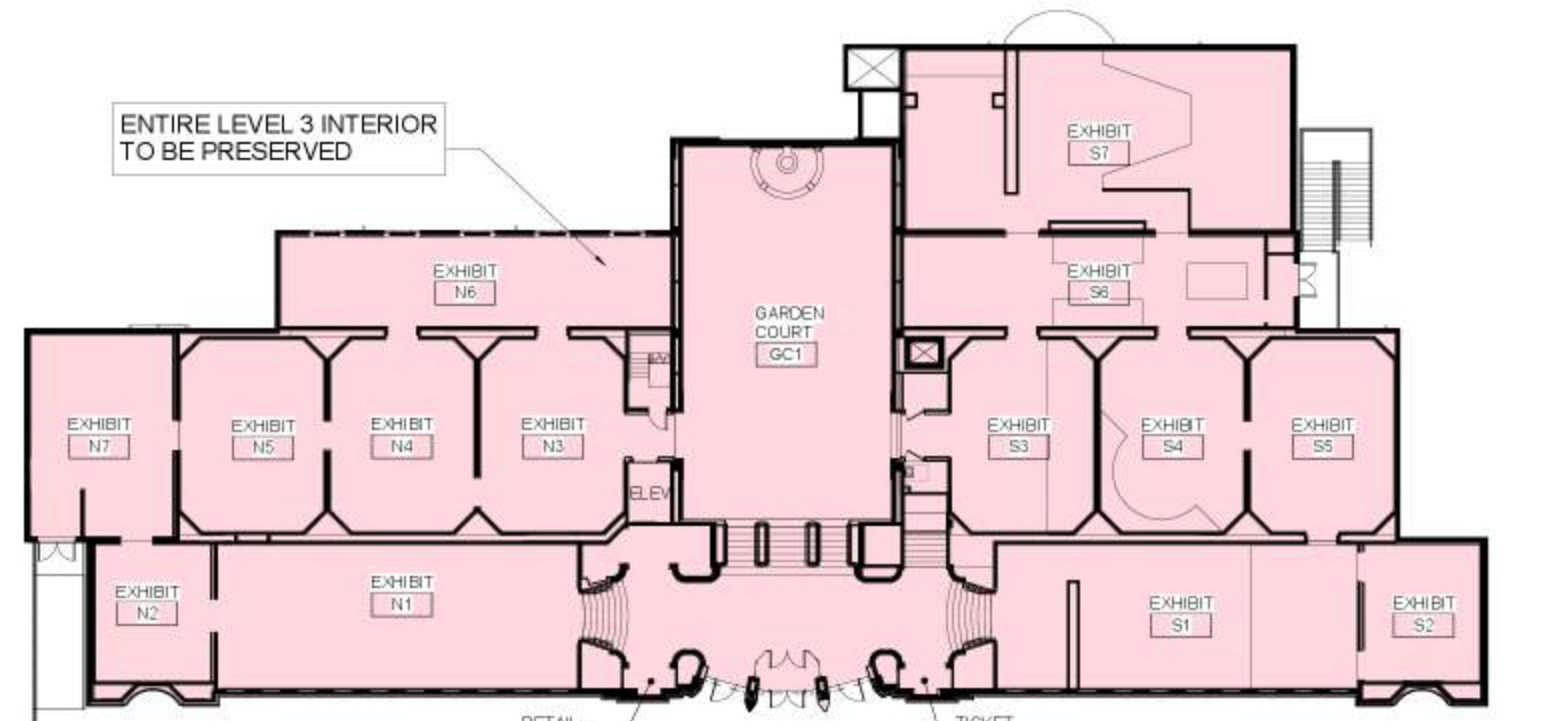
1 LEVEL 1 EXISTING
1/16" = 1'-0"



5 ROOF PLAN - EXISTING
1/16" = 1'-0"



2 LEVEL 2 EXISTING
1/16" = 1'-0"



3 LEVEL 3 EXISTING
1/16" = 1'-0"

The City of Seattle
Landmarks Preservation Board
700 Third Avenue - 6th floor - Seattle, Washington 98104 - (206) 684-0888

REPORT ON DESIGNATION

Name and Address of Property: Seattle Art Museum at Volunteer Park
1400 East Prospect Street

Legal Description: Volunteer Park

At the public hearing held on June 21, 1989, the City of Seattle's Landmarks Preservation Board voted to approve designation of the Seattle Art Museum at Volunteer Park as a Seattle Landmark based upon satisfaction of the following criteria of Ordinance 106348:

Section 3.01(2): It is associated in a significant way with the life of a person important in the history of the city, state, or nation;

Section 3.01(3): It is associated in a significant way with a significant aspect of the cultural, political, or economic heritage of the community, city, state or nation;

Section 3.01(4): It embodies the distinctive visible characteristics of an architectural style, or period, or of a method of construction;

Section 3.01(5): It is an outstanding work of a designer or builder;

Section 3.01(6): Because of its prominence of spatial location, contrasts of siting, age, or scale, it is an easily identifiable visual feature of its neighborhood or the city and contributes to the distinctive quality or identity of such neighborhood or the city;

Administered by The Office of Urban Conservation, The Seattle Department of Community Development

Page 9

The features of the Landmark to be preserved, include:
The entire exterior of the building, including the roof, and the portion of the landscape/site that is in accordance with the Boggs Plan of 1933, and the following interior features: the entire main floor, and the public areas of the ground floor, including the corridors, the auditorium, the classic gallery, the former Board of Trustees Room, and the library.

Issued: July 3, 1989

Karen Gordon
Karen Gordon
City Historic Preservation Officer

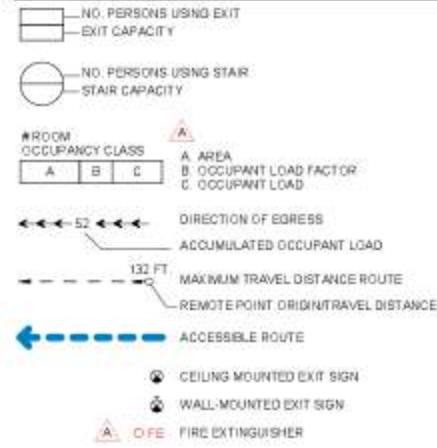
cc: Mary McComber, Chair, Landmarks Preservation Board
Dennis McLerran, DCLU
Alan O'ye, DCLU
Ken Mar, DCLU
Solly Miller, DOPAR
Don Harris, DOPAR
Kae Tufts, DOPAR
Joy Gates, SAM
Gail Joyce, SAM
Bill Booth

PL&D
63.19

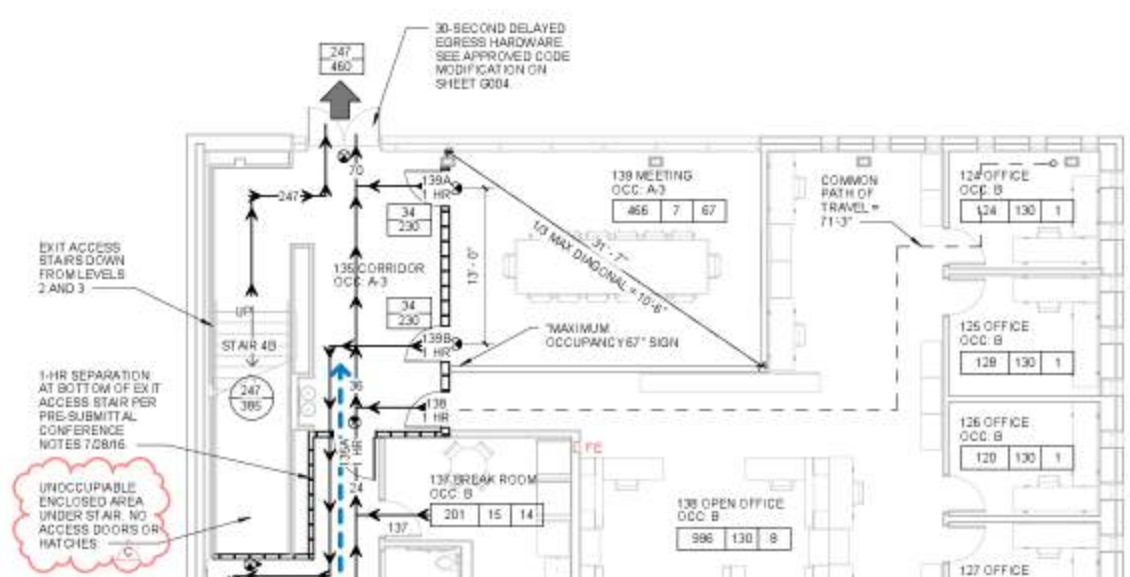
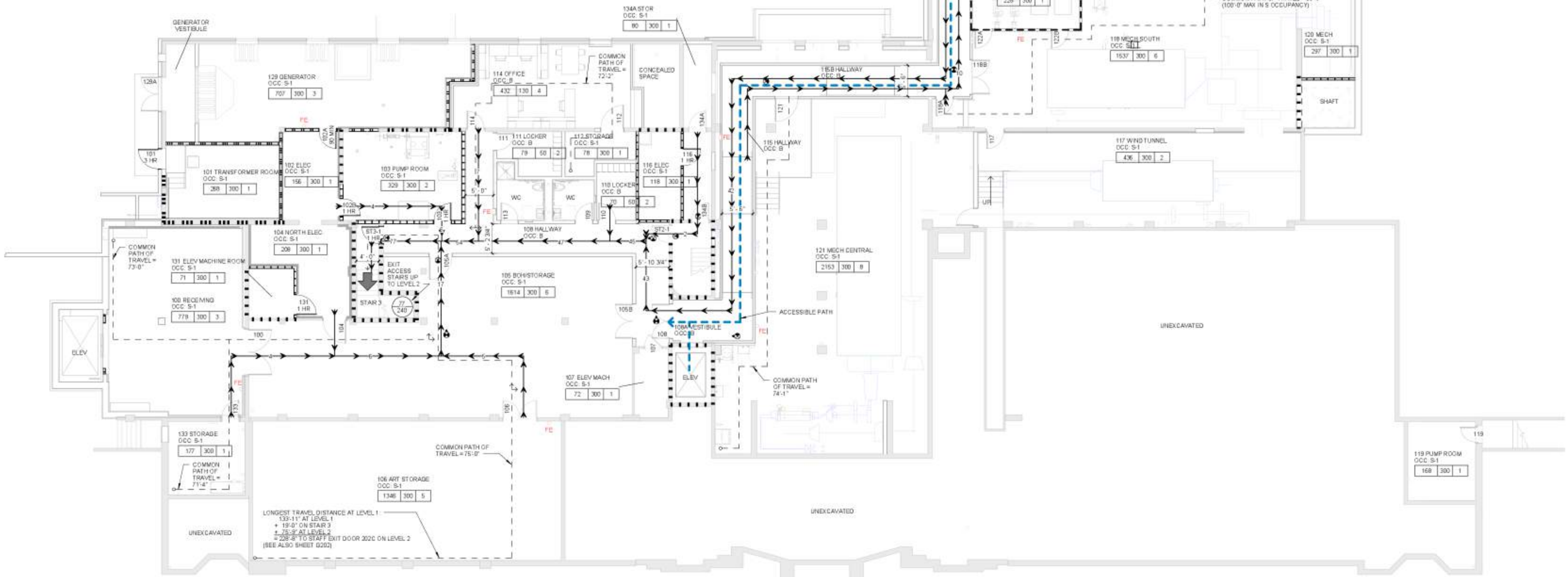
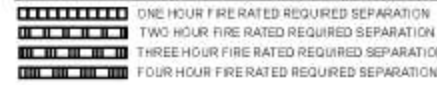
OCCUPANCY TABULATION - LEVEL 1						
ROOM NUMBER	NAME	AREA	FUNCTION OF SPACE	LOAD FACTOR	GROSSNET	OCCUPANTS
100	RECEIVING	779 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	3
101	TRANSFORMER ROOM	268 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
102	ELEC	156 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
103	PUMP ROOM	329 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	2
104	NORTH ELEC	208 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
105	BOILER STORAGE	1,814 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	6
106	ART STORAGE	1,346 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	5
107	ELEV MACH	72 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
108	HALLWAY	443 SF	(none)			0
108A	VESTIBULE	84 SF	(none)			0
109	WC	53 SF	(none)			0
110	LOCKER	70 SF	Locker rooms	50 SF	Gross	2
111	LOCKER	79 SF	Locker rooms	50 SF	Gross	2
112	STORAGE	78 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
113	WC	19 SF	(none)			0
114	OFFICE	432 SF	Business	130 SF	Gross	4
115	HALLWAY	269 SF	(none)			0
115B	HALLWAY	316 SF	(none)			0
116	ELEC	118 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
117	WIND TUNNEL	436 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	3
118	MECH SOUTH	1,537 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	6
119	PUMP ROOM	168 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
120	MECH	287 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1

OCCUPANCY TABULATION - LEVEL 1						
ROOM NUMBER	NAME	AREA	FUNCTION OF SPACE	LOAD FACTOR	GROSSNET	OCCUPANTS
121	MECH CENTRAL	2,153 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	8
122	BOILER	236 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
124	OFFICE	124 SF	Business	130 SF	Gross	1
125	OFFICE	128 SF	Business	130 SF	Gross	1
126	OFFICE	120 SF	Business	130 SF	Gross	1
127	OFFICE	121 SF	Business	130 SF	Gross	1
129	GENERATOR	707 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	3
129A	GENERATOR	90 SF	(none)			0
131	ELEV MACHINE ROOM	71 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
133	STORAGE	177 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
134	HALL	78 SF	(none)			0
134A	STOR	80 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
135	CORRIDOR	315 SF	(none)			0
135A	VESTIBULE	165 SF	(none)			0
136	WC	48 SF	(none)			0
137	BREAK ROOM	201 SF	Assembly without fixed seats, Unconcentrated (tables and chairs)	15 SF	Net	14
138	OPEN OFFICE	993 SF	Business	130 SF	Gross	8
139	MEETING	466 SF	Assembly without fixed seats, Concentrated (chairs only not-food)	7 SF	Net	67
Grand total				15,454 SF		149

EXITING AND OCCUPANCY SYMBOLS KEY



FIRE RATED SEPARATION KEY



LEVEL 1 - LIFE SAFETY PLAN

1/8" = 1'-0"



SDD Use Only



Asian Art Museum Expansion & Renovation
 Volunteer Park / 1400 E Prospect /
 Seattle, WA 98112

Submit

No.	Date	Description
B	9/19/17	PERMIT CORRECTIONS 1
C	10/23/17	PERMIT CORRECTIONS 2

Drawn: LMN Proj No
 Checked: LMN Proj No
 Date: 6/23/17

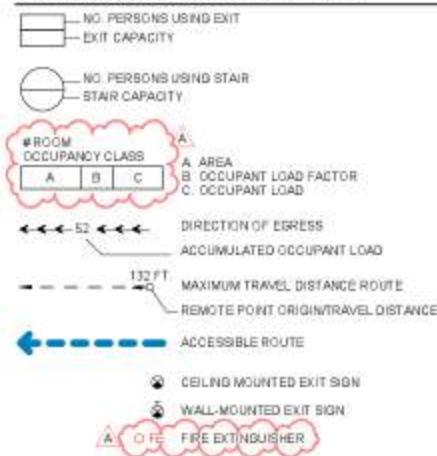
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 Sheet Number: G201

Life Safety Plan - Level 1

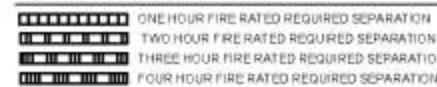
G201

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EXITING AND OCCUPANCY SYMBOLS KEY

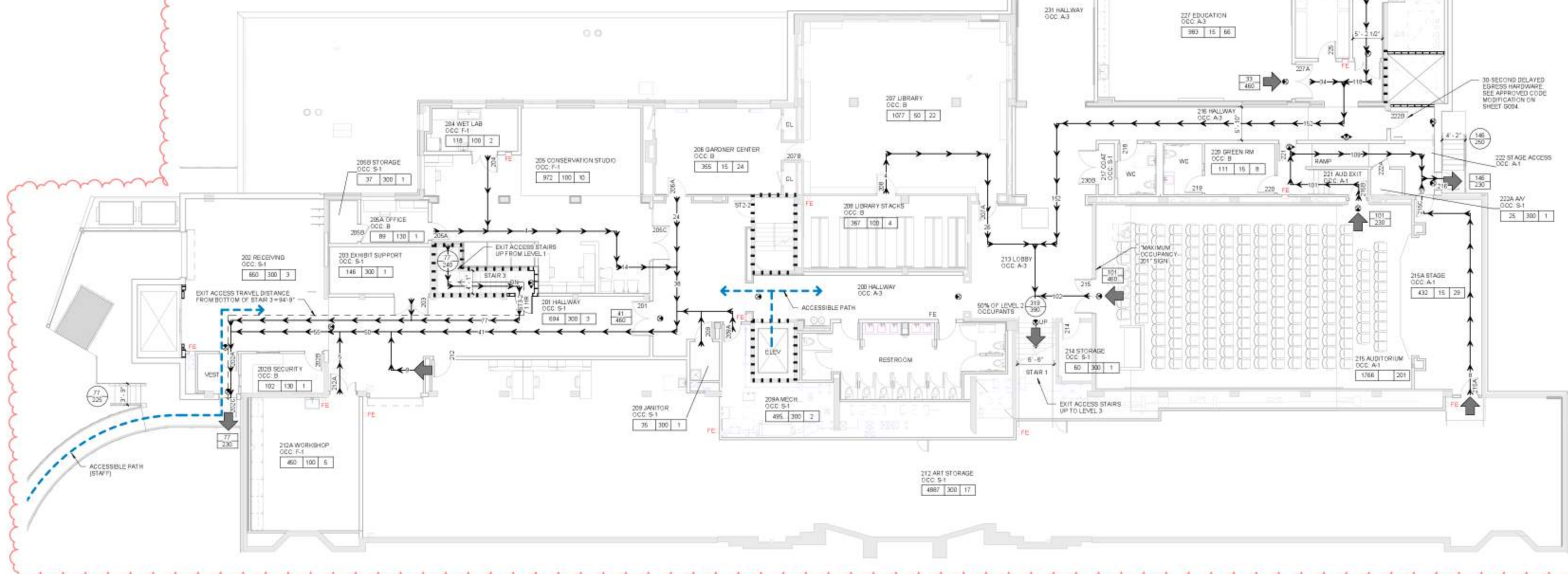


FIRE RATED SEPARATION KEY



ROOM NUMBER	NAME	AREA	FUNCTION OF SPACE	LOAD FACTOR	GROSSNET	OCCUPANTS
200	HALLWAY	293 SF (none)				
200A	HALLWAY	410 SF (none)				
201	HALLWAY	694 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	3
202	RECEIVING	650 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	3
202A	VEST	50 SF	(none)			
202B	SECURITY	102 SF	Business	130	Gross	1
203	EXHIBIT SUPPORT	146 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
204	WET LAB	118 SF	Industrial Areas	100 SF	Gross	3
205	CONSERVATION STUDIO	992 SF	Industrial Areas	100 SF	Gross	10
205A	OFFICE	89 SF	Business	130	Gross	1
205B	STORAGE	37 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
206	GARDNER CENTER	355 SF	Assembly without fixed seats, Unconcentrated (tables and chairs)	15 SF	Net	24
207	LIBRARY	1,077 SF	Library, Reading rooms	50 SF	Net	22
208	LIBRARY STACKS	367 SF	Library, Stack area	100 SF	Gross	4
209	JANITOR	36 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
209A	MECH	495 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	2
210	RESTROOM	203 SF	(none)			
212	ART STORAGE	4,882 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	17
212A	WORKSHOP	449 SF	Industrial Areas	100 SF	Gross	5
213	LOBBY	784 SF	(none)			
214	STORAGE	60 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
214A	MECH	240 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1

ROOM NUMBER	NAME	AREA	FUNCTION OF SPACE	LOAD FACTOR	GROSSNET	OCCUPANTS
215	AUDITORIUM	1,766 SF	Assembly Fixed Seats (by Seat Count)			201
215A	STAGE	432 SF	Stages and platforms	15 SF	Net	28
216	HALLWAY	395 SF	(none)			
217	COAT	25 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
218	WC	60 SF	(none)			
219	WC	61 SF	(none)			
219	GREEN RM	111 SF	Assembly without fixed seats, Unconcentrated (tables and chairs)	15 SF	Net	8
221	AUD EXIT	141 SF	(none)			
222	STAGE ACCESS	76 SF	(none)			
222A	AV	25 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
222B	VESTIBULE	47 SF	(none)			
224	HALL	133 SF	(none)			
225	EDUC STOR	166 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
225A	AV	26 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
226	HALLWAY	110 SF	(none)			
226A	MECH	436 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	3
227	EDUCATION	980 SF	Assembly without fixed seats, Unconcentrated (tables and chairs)	15 SF	Net	66
228	KITCHEN	236 SF	Holdings, Commercial	200 SF	Gross	2
229	VESTIBULE	268 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
230	EVENT	1,567 SF	Assembly without fixed seats, Concentrated (chairs only) (not-fixed)	7 SF	Net	224
231	HALLWAY	457 SF	(none)			
231A	PREFUNCTION	588 SF	(none)			
LEVEL 2		20,717 SF				676



1 LEVEL 2 - LIFE SAFETY PLAN
1/8" = 1'-0"



LMN Architecture
Urban Design
Interiors

6541 REGISTERED ARCHITECT
SMARL WICKER MILLER
STATE OF WASHINGTON

SAM ASIAN ART MUSEUM

Asian Art Museum Expansion & Renovation
Volunteer Park / 1400 E Prospect /
Seattle, WA 98112

Submit

No.	Date	Description
0	9/19/17	PERMIT CORRECTIONS 1

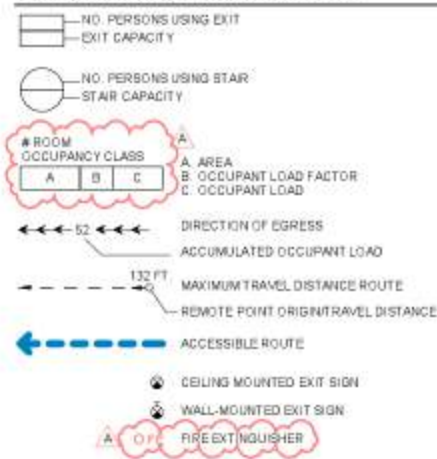
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Drawn: LMN Proj No
Checked: LMN Proj No
Author: 16028.01
Date: 6/23/17

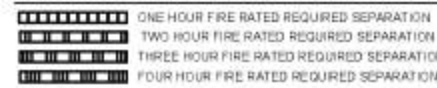
Life Safety Plan -
Level 2

G202

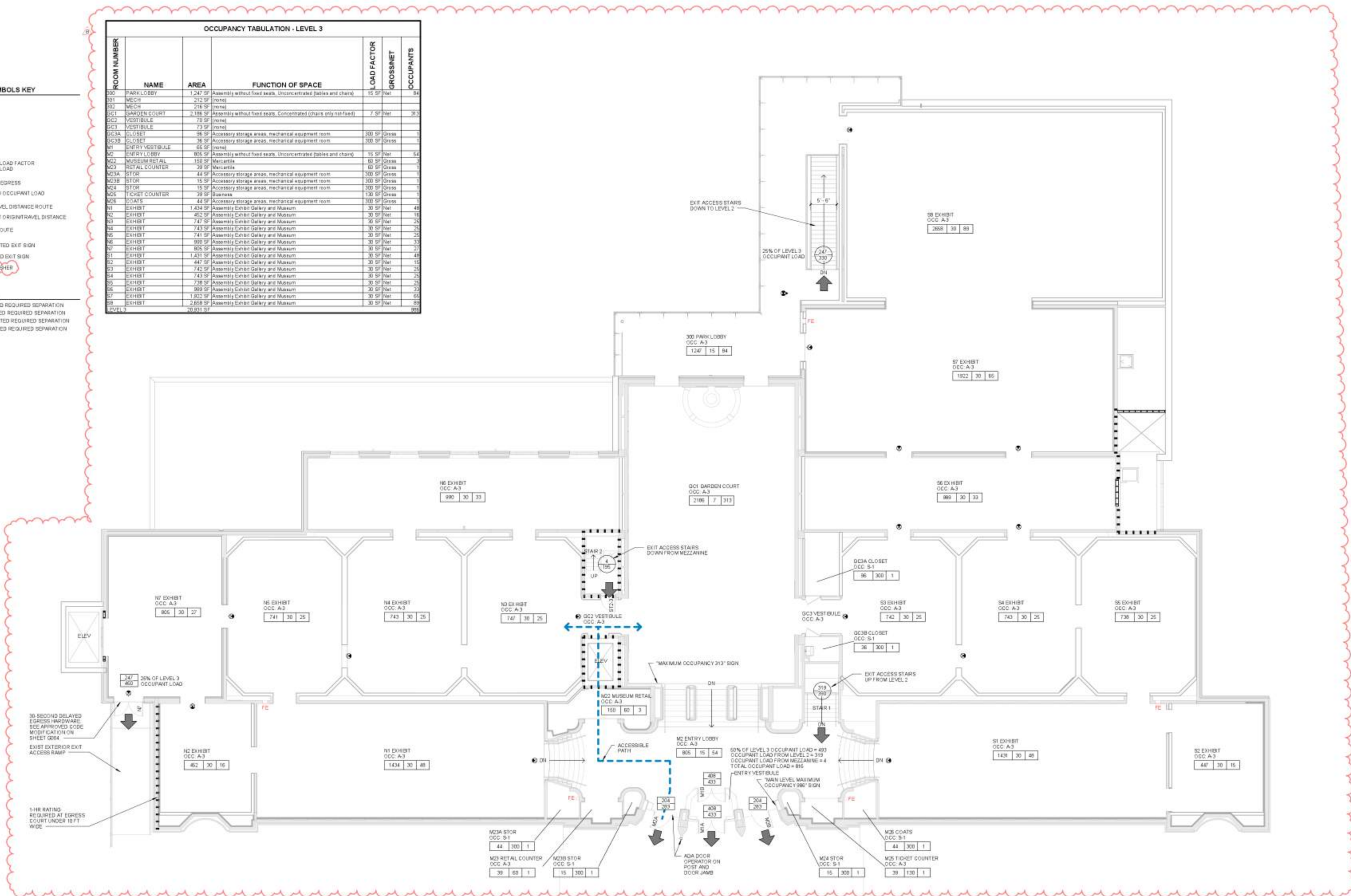
EXITING AND OCCUPANCY SYMBOLS KEY



FIRE RATED SEPARATION KEY



ROOM NUMBER	NAME	AREA	FUNCTION OF SPACE	LOAD FACTOR	GROSSNET	OCCUPANTS
000	PARK LOBBY	1,247 SF	Assembly without fixed seats, Unconcentrated (tables and chairs)	15 SF	Nat	84
001	MECH	212 SF	(none)			
002	MECH	216 SF	(none)			
001	GARDEN COURT	2,186 SF	Assembly without fixed seats, Concentrated (chairs only not-fixed)	7 SF	Nat	313
002	VESTIBULE	70 SF	(none)			
003	VESTIBULE	73 SF	(none)			
003A	CLOSET	36 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
003B	CLOSET	36 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
M1	ENTRY VESTIBULE	65 SF	(none)			
M2	ENTRY LOBBY	805 SF	Assembly without fixed seats, Unconcentrated (tables and chairs)	15 SF	Nat	54
M22	MUSEUM RETAIL	110 SF	Merchandise	60 SF	Gross	3
M23	RETAIL COUNTER	39 SF	Merchandise	60 SF	Gross	1
M23A	STOR	44 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
M23B	STOR	15 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
M24	STOR	15 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
M25	TICKET COUNTER	39 SF	Box office	130 SF	Gross	1
M26	COATS	44 SF	Accessory storage areas, mechanical equipment room	300 SF	Gross	1
N1	EXHIBIT	1,434 SF	Assembly Exhibit Gallery and Museum	30 SF	Nat	48
N2	EXHIBIT	462 SF	Assembly Exhibit Gallery and Museum	30 SF	Nat	16
N3	EXHIBIT	747 SF	Assembly Exhibit Gallery and Museum	30 SF	Nat	25
N4	EXHIBIT	743 SF	Assembly Exhibit Gallery and Museum	30 SF	Nat	25
N5	EXHIBIT	741 SF	Assembly Exhibit Gallery and Museum	30 SF	Nat	25
N6	EXHIBIT	990 SF	Assembly Exhibit Gallery and Museum	30 SF	Nat	33
N7	EXHIBIT	805 SF	Assembly Exhibit Gallery and Museum	30 SF	Nat	27
N11	EXHIBIT	1,431 SF	Assembly Exhibit Gallery and Museum	30 SF	Nat	48
N2	EXHIBIT	447 SF	Assembly Exhibit Gallery and Museum	30 SF	Nat	15
N3	EXHIBIT	742 SF	Assembly Exhibit Gallery and Museum	30 SF	Nat	25
N4	EXHIBIT	743 SF	Assembly Exhibit Gallery and Museum	30 SF	Nat	25
N5	EXHIBIT	739 SF	Assembly Exhibit Gallery and Museum	30 SF	Nat	25
N6	EXHIBIT	989 SF	Assembly Exhibit Gallery and Museum	30 SF	Nat	33
N7	EXHIBIT	1,822 SF	Assembly Exhibit Gallery and Museum	30 SF	Nat	65
N8	EXHIBIT	2,658 SF	Assembly Exhibit Gallery and Museum	30 SF	Nat	89
LEVEL 3		70,871 SF				898



LEVEL 3 - LIFE SAFETY PLAN

1/18/2023 1/8" = 1'-0"



Asian Art Museum Expansion & Renovation
Volunteer Park / 1400 E Prospect / Seattle, WA 98112

Construction Documents

Revisions	No.	Date	Description
	0	8/1/17	PERMIT CORRECTIONS 1

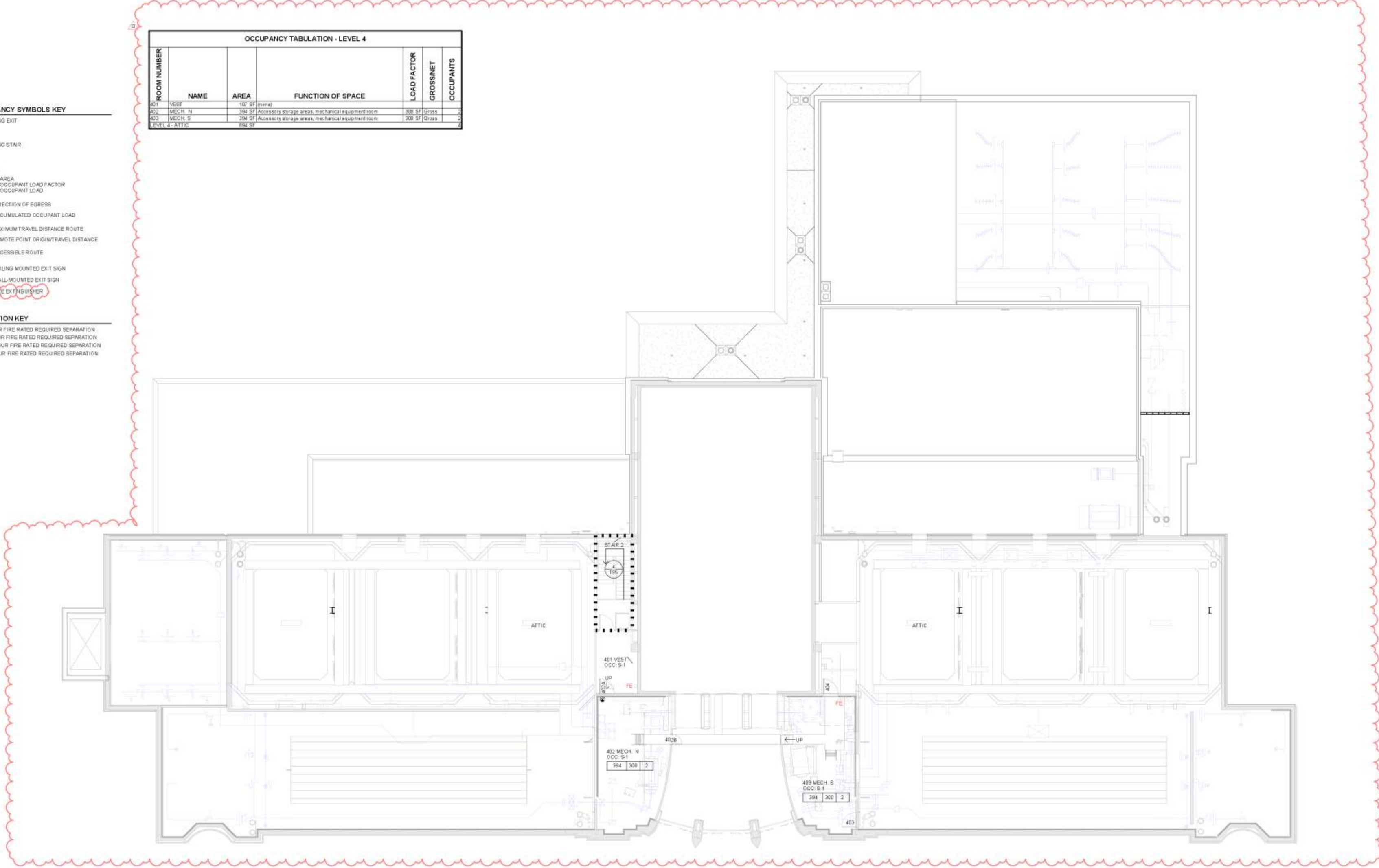
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Checked: LMN Proj No
Author: 16028.01
Date: 6/23/17

Life Safety Plan - Level 3

G203

- EXITING AND OCCUPANCY SYMBOLS KEY**
- NO. PERSONS USING EXIT
 - EXIT CAPACITY
 - NO. PERSONS USING STAIR
 - STAIR CAPACITY
 - # ROOM OCCUPANCY CLASS
 - A. AREA
 - B. OCCUPANT LOAD FACTOR
 - C. OCCUPANT LOAD
 - DIRECTION OF EGRESS
 - ACCUMULATED OCCUPANT LOAD
 - 132 FT MAXIMUM TRAVEL DISTANCE ROUTE
 - REMOTE POINT ORIGIN TRAVEL DISTANCE
 - ACCESSIBLE ROUTE
 - CEILING MOUNTED EXIT SIGN
 - WALL MOUNTED EXIT SIGN
 - FIRE EXTINGUISHER
- FIRE RATED SEPARATION KEY**
- ONE HOUR FIRE RATED REQUIRED SEPARATION
 - TWO HOUR FIRE RATED REQUIRED SEPARATION
 - THREE HOUR FIRE RATED REQUIRED SEPARATION
 - FOUR HOUR FIRE RATED REQUIRED SEPARATION

OCCUPANCY TABULATION - LEVEL 4						
ROOM NUMBER	NAME	AREA	FUNCTION OF SPACE	LOAD FACTOR	GROSSNET	OCCUPANTS
401	VEST	107 SF	(None)			
402	MECH. N	394 SF	Accessory storage areas, mechanical equipment room	300	SF Gross	
403	MECH. S	394 SF	Accessory storage areas, mechanical equipment room	300	SF Gross	
LEVEL 4 - ATTIC				892 SF		



1 LEVEL 4 ATTIC LIFE SAFETY PLAN
 6/20/17 1/8" = 1'-0"



LMN Architecture
 Urban Design
 Interiors

6541 REGISTERED ARCHITECT
Sam Miller
 SAMUEL WOLFE MILLER
 STATE OF WASHINGTON

SAM ASIAN ART MUSEUM

Asian Art Museum Expansion & Renovation
 Volunteer Park / 1400 E Prospect /
 Seattle, WA 98112

Submitted

Revisions		
No.	Date	Description
0	9/1/17	PERMIT CORRECTIONS 1

Sheet Title Sheet Number

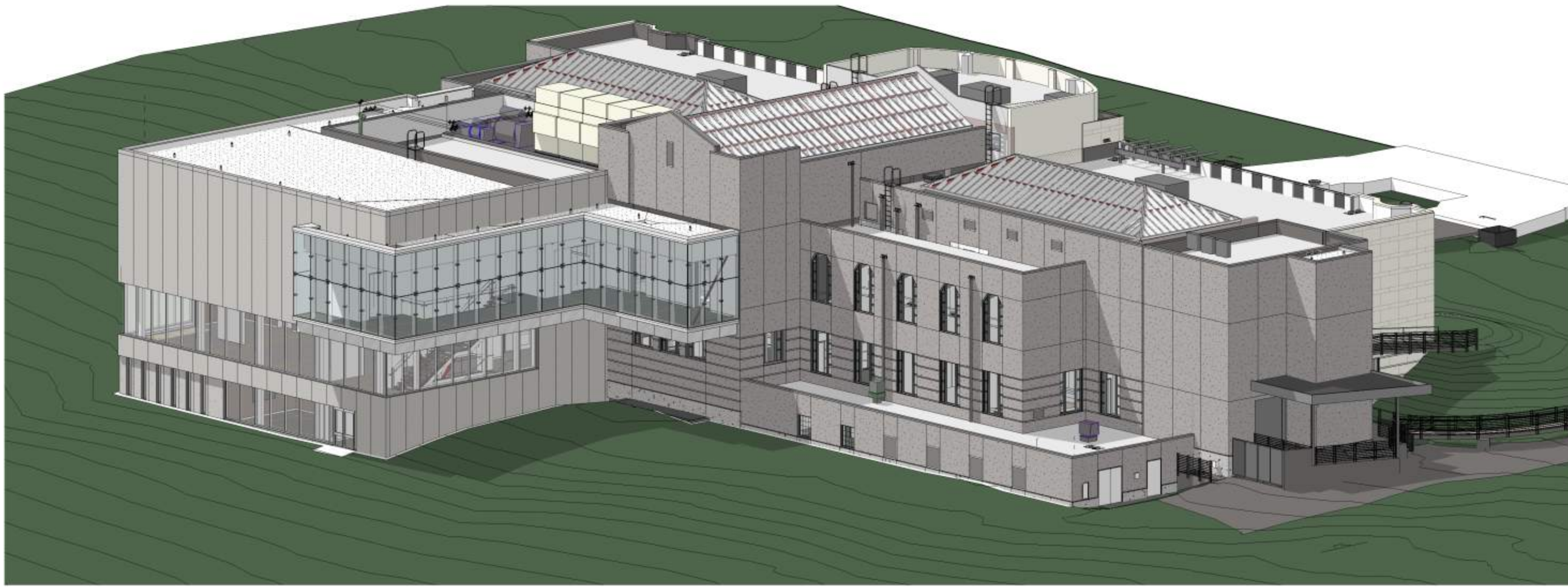
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 Checked: LMN Proj No
 Date: 6/23/17

Author: 16028.01
 Checker: 16028.01
 Date: 6/23/17

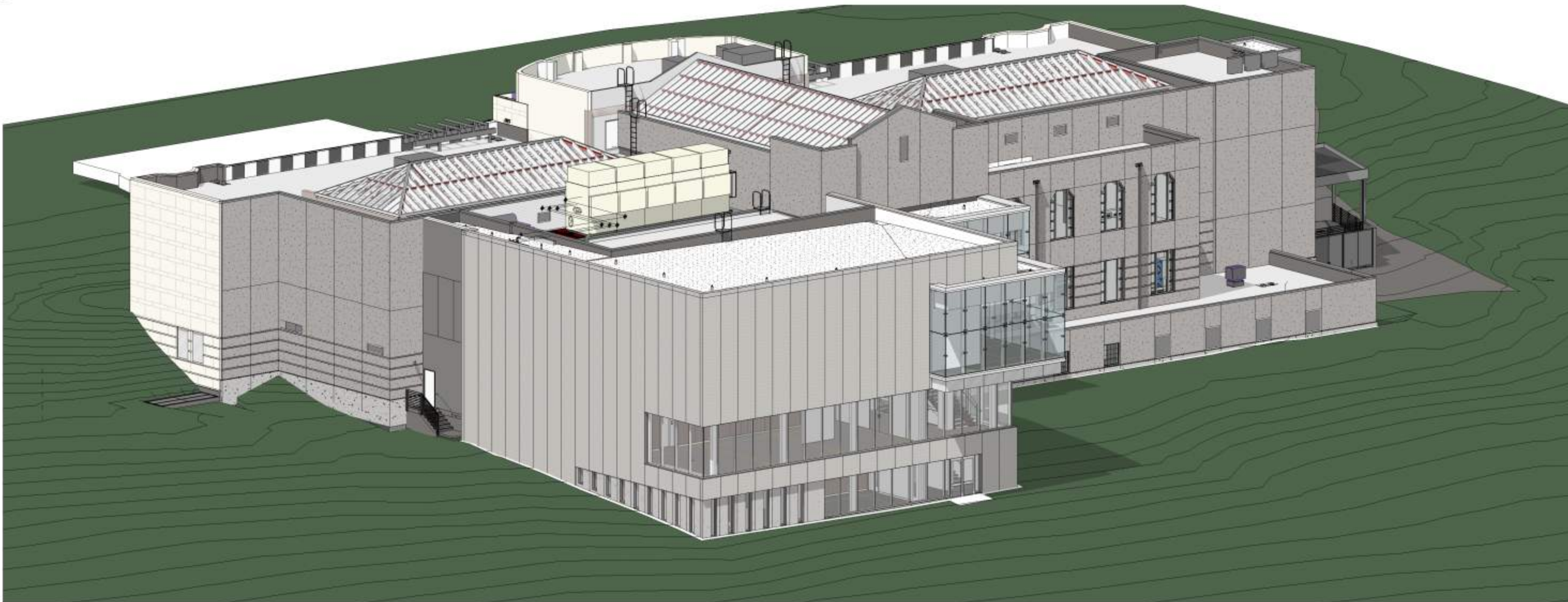
Life Safety Plan -
 Mezz/Attic

G204

Please BRIDGE 12:20:34 PM



1
G900
NORTHEAST BIRD EYE VIEW



2
G900
SOUTHEAST BIRD EYE VIEW

P:\P\01\G900\1222100.PLM

LMN Architecture
Urban Design
Interiors



SDD Use Only



Asian Art Museum Expansion & Renovation
Volunteer Park / 1400 E Prospect /
Seattle, WA 98112

Submital

Construction Documents

Revisions
No. Date Description

Drawn: Author:
Checked: Checker:
LMN Proj No: 16028.01
Date: 6/23/17

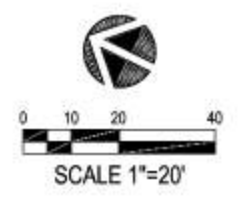
Sheet Title

3D Views

Sheet Number

G900

Call before you Dig 8-1-1
 1-800-424-5555
 UNDERGROUND SERVICE (USA)



Legend

--- N 79°33'00" E - 46.81'	PROPERTY LINE
---	SAWCUT LINE
---	REMOVE CURBING
---	REMOVE ASPHALT PAVEMENT
---	REMOVE CONCRETE PAVEMENT
---	DEMOLISH BUILDING
---	REMOVE TREE(S)
---	TREE CANOPY / EXCEPTIONAL TREE
---	FENCING

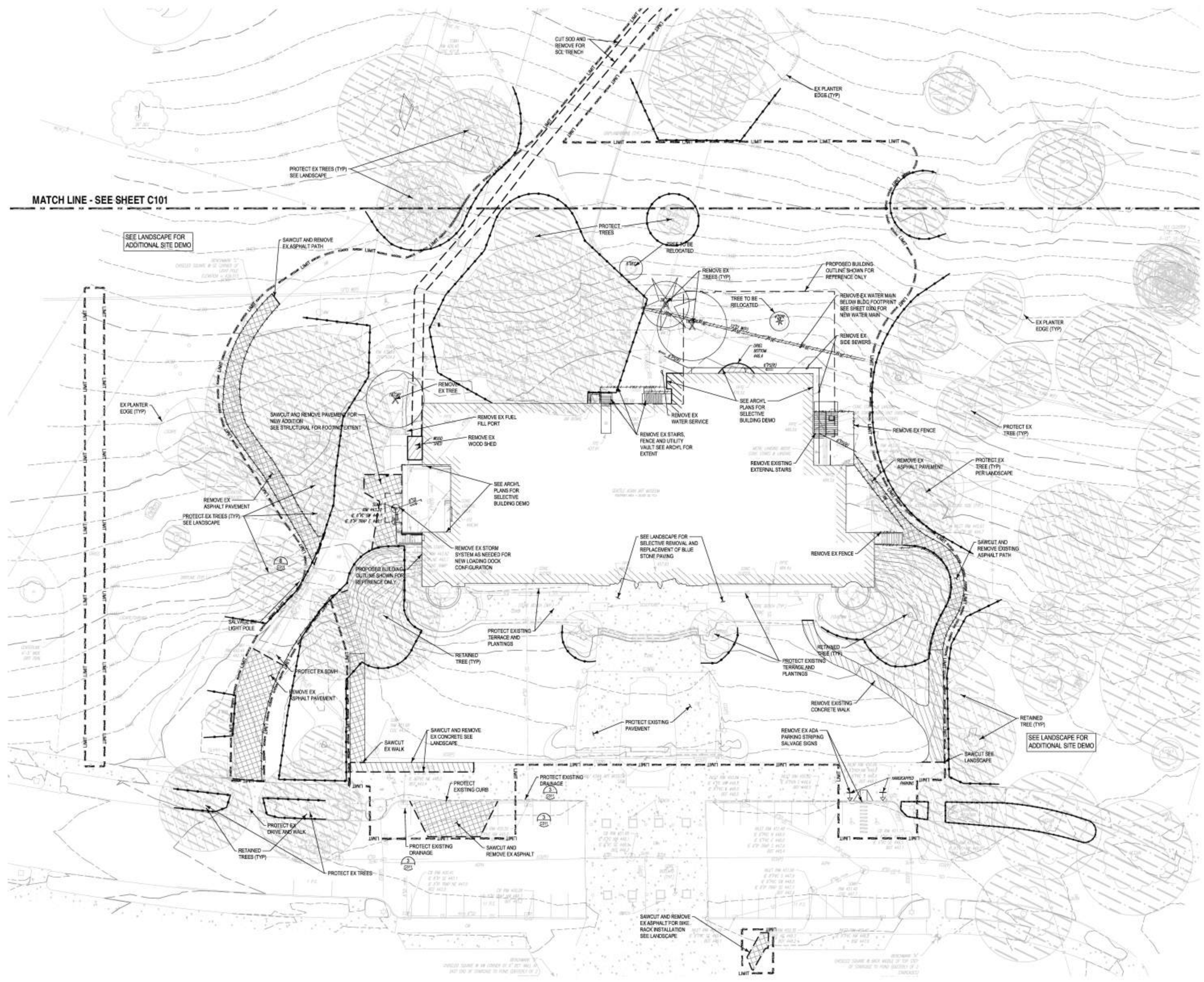
Sheet Index

C100	DEMOLITION PLAN
C101	DEMOLITION PLAN
C200	T.E.S.C. PLAN
C201	T.E.S.C. PLAN
C210	T.E.S.C. DETAILS
C300	SITE PLAN
C301	SITE PLAN
C310	SITE DETAILS
C311	SITE DETAILS
C320	SITE PROFILE

SEE LANDSCAPE FOR DETAILED TREE AND SHRUB PROTECTION INFORMATION - SEE L101

VERIFY SAWCUT LOCATIONS WITH LANDSCAPE DESIGN

MAINTAIN EX PAVING FOR CONSTRUCTION SITE ACCESS. REMOVE JUST BEFORE NEW PAVING AND FINAL SITE STABILIZATION IS INSTALLED



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 ART
 MUSEUM

Asian Art Museum Expansion & Renovation
 Volunteer Park / 1400 E Prospect /
 Seattle, WA 98112

Submitted

Construction Documents

Revisions

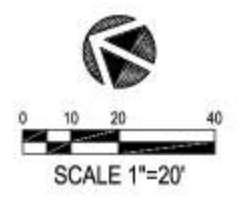
No.	Date	Description
1	06/01/17	Permit Corrections

Sheet Title	Sheet Number
Site Demolition Plan	C100

Drawn	Checked	LMN Proj No	Date
APC	KAW	16026.01	06/23/17

C100

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Legend

- PROPERTY LINE
- SAWCUT LINE
- REMOVE CURBING
- REMOVE ASPHALT PAVEMENT
- REMOVE CONCRETE PAVEMENT
- DEMOLISH BUILDING
- REMOVE TREE(S)
- TREE CANOPY / EXCEPTIONAL TREE
- FENCING

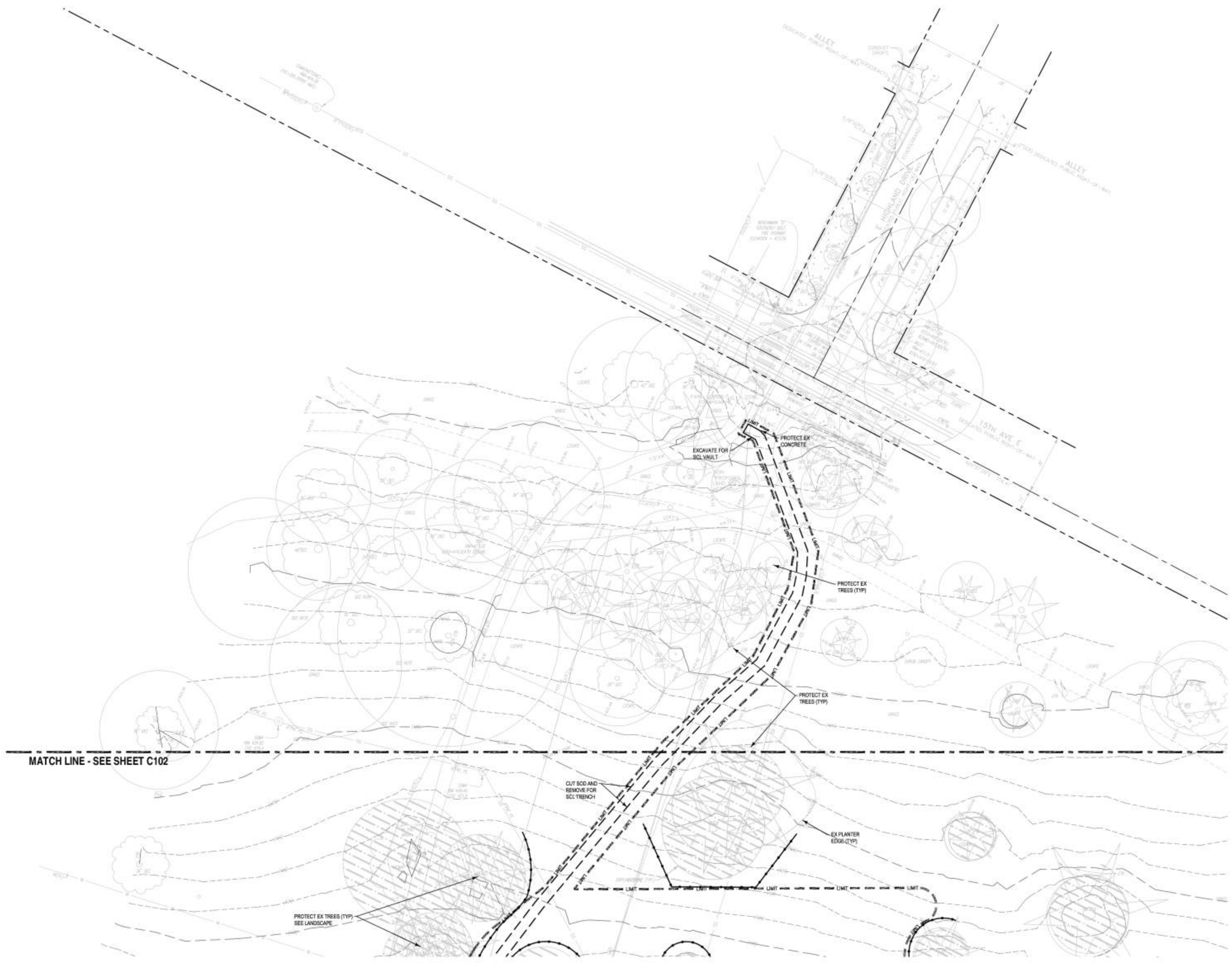
Sheet Index

- C100 DEMOLITION PLAN
- C101 DEMOLITION PLAN
- C200 T.E.S.C. PLAN
- C201 T.E.S.C. PLAN
- C210 T.E.S.C. DETAILS
- C300 SITE PLAN
- C301 SITE PLAN
- C310 SITE DETAILS
- C311 SITE DETAILS
- C320 SITE PROFILE

SEE LANDSCAPE FOR DETAILED TREE AND SHRUB PROTECTION INFORMATION - SEE L101

VERIFY SAWCUT LOCATIONS WITH LANDSCAPE DESIGN

MAINTAIN EX PAVING FOR CONSTRUCTION SITE ACCESS. REMOVE JUST BEFORE NEW PAVING AND FINAL SITE STABILIZATION IS INSTALLED



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Construction Documents

No.	Date	Description
1	06/01/17	Permit Corrections

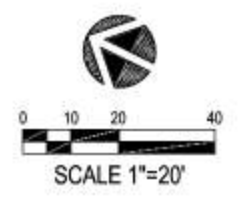
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APC	KAW	16038.01	06/23/17

Sheet Title: Site Demolition Plan

Sheet Number

C101

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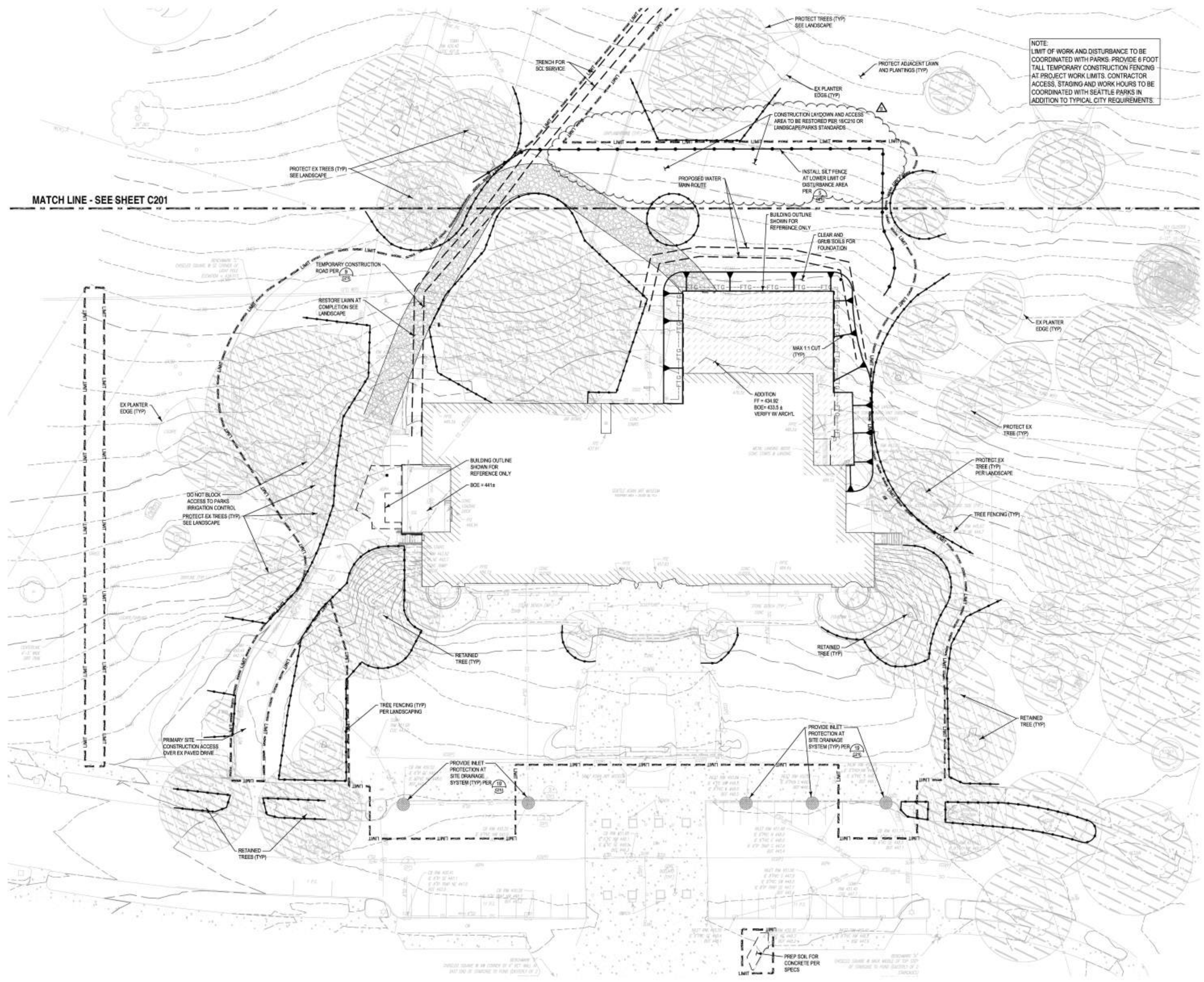


NOTE:
 LIMIT OF WORK AND DISTURBANCE TO BE COORDINATED WITH PARKS. PROVIDE 6 FOOT TALL TEMPORARY CONSTRUCTION FENCING AT PROJECT WORK LIMITS. CONTRACTOR ACCESS, STAGING AND WORK HOURS TO BE COORDINATED WITH SEATTLE PARKS IN ADDITION TO TYPICAL CITY REQUIREMENTS.

- Legend**
- PROPERTY LINE
 - LIMITS OF CONSTRUCTION
 - INTERCEPTOR SWALE
 - FILTER FABRIC FENCING
 - TEMPORARY CONSTRUCTION GATE
 - CLEAR AND GRUB
 - INLET PROTECTION
 - TREE CANOPY / EXCEPTIONAL TREE

- City of Seattle T.E.S.C. Notes**
1. NONCOMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS, AND CLEAR LIMITS VIOLATIONS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL, AND BOND FORECLOSURES.
 2. PRIOR TO ANY WORK, THE CONTRACTOR SHALL CONTACT THE CITY OF SEATTLE TO SCHEDULE A PRECONSTRUCTION MEETING.
 3. PRIOR TO ANY SITE CONSTRUCTION (WHICH INCLUDES CLEARING, LOGGING OR GRADING THE SITE), CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR. THE CONTRACTOR SHALL COORDINATE WITH THE CITY AS REQUIRED, COORDINATE LIMITS AND FENCE PLACEMENT WITH THE UNIVERSITY.
 4. THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED.
 5. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT SEATTLE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
 6. ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARDS.
 7. SEE STRUCTURAL DRAWING FOR FOUNDATION DESIGN.
 8. STOCKPILES ARE NOTE PERMITTED.
 9. ALL STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY BY MODIFIED PROCTOR TEST.
 10. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE EXISTING DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER QUALITY REQUIREMENTS.
 11. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS.
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 13. ANY AREA STRIPPED OF VEGETATION (INCLUDING ROADWAY EMBANKMENTS) WHERE NO FURTHER WORK IS ANTICIPATED SHALL BE STABILIZED WITH APPROVED ESC METHODS WITHIN 2 DAYS BETWEEN OCTOBER 1 AND APRIL 30, AND 7 DAYS BETWEEN MAY 1 AND SEPTEMBER 30. (S.A. SEEDING, MULCHING, NETTING, EROSION BLANKETS, ETC.)
 14. THE ESC FACILITIES ON INACTIVE SITE SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.
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 19. THE TEMPORARY CONSTRUCTION EROSION CONTROL MEASURES SHOWN ON THESE PLANS MAY BE ALTERED OR ADDED TO AS DETERMINED BY THE SDCI SITE INSPECTOR.
 20. BMP EROSION CONTROL MEASURES MUST BE IN PLACE AND APPROVED BY THE SDCI SITE DEVELOPMENT INSPECTOR PRIOR TO DEMOLITION AND GRADING. CALL (206) 884-8860 TO SCHEDULE AN INSPECTION.

SEE LANDSCAPE FOR DETAILED TREE AND SHRUB PROTECTION INFORMATION



MATCH LINE - SEE SHEET C201

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Submitted

Revisions	No.	Date	Description
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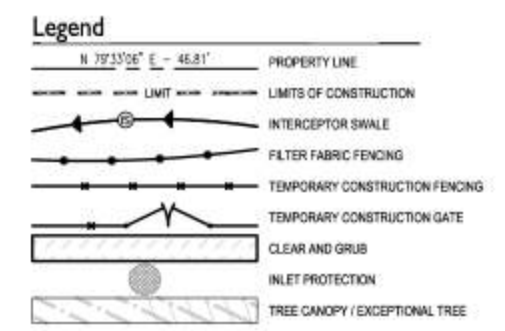
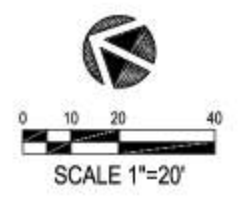
Construction Documents

Drawn: APC
 Checked: KAW
 LMN Proj No: 16039-01
 Date: 06/23/17

T.E.S.C Plan

C200

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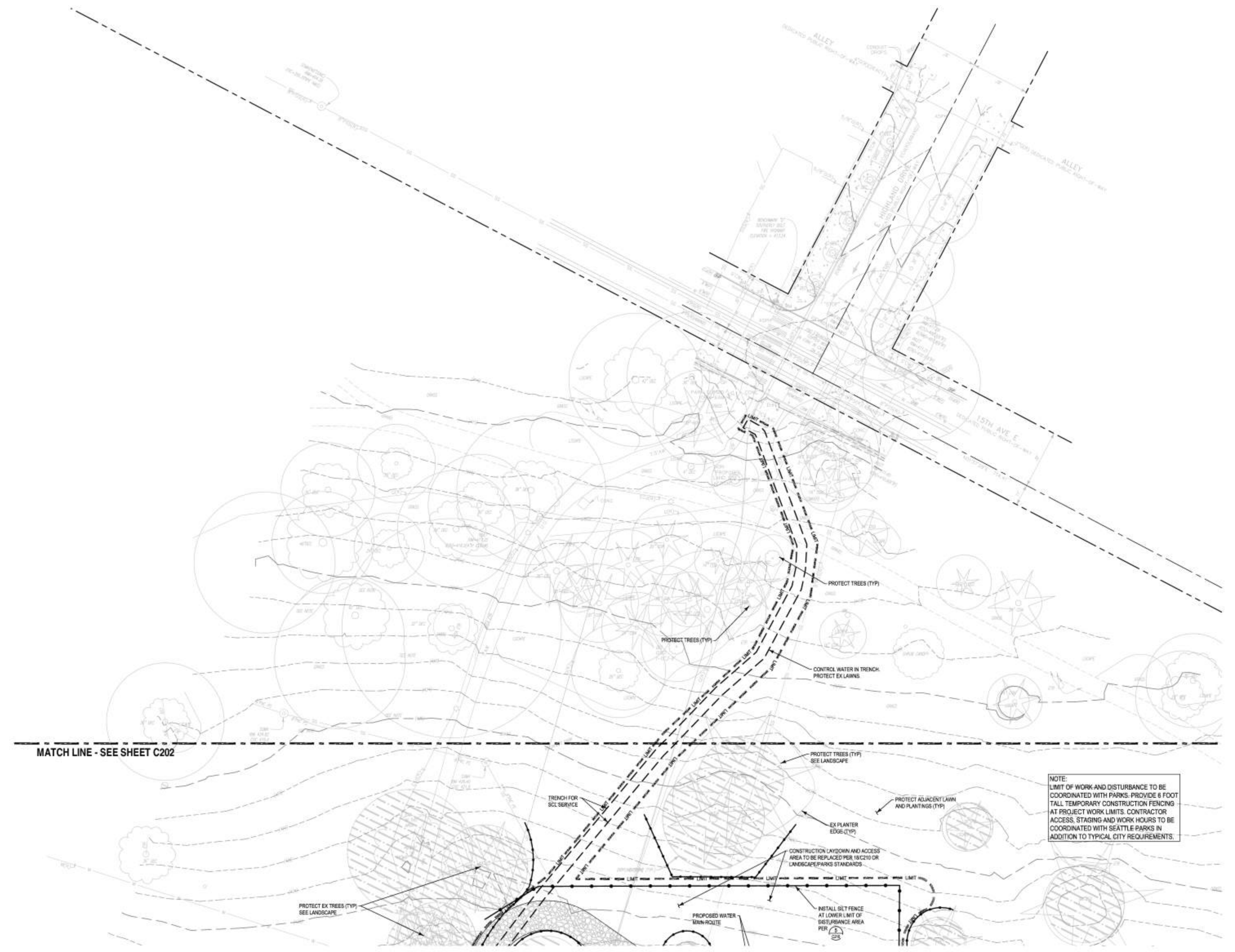


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MATCH LINE - SEE SHEET C202

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Construction Documents

Revisions	No.	Date	Description
	1	06/01/17	Permit Corrections

Sheet	Title	Sheet Number
	T.E.S.C Plan	

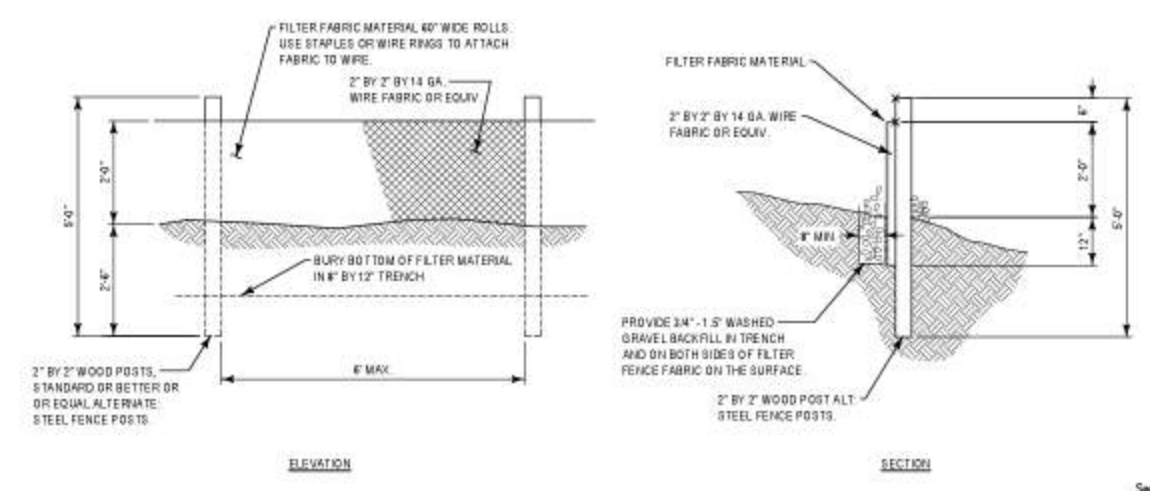
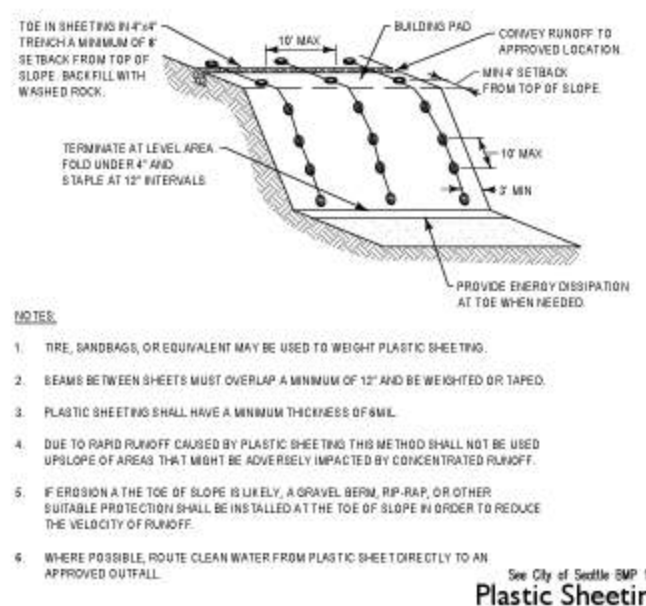
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Checked	KAW
LMN Proj No	16038.01
Date	06/23/17

T.E.S.C Plan

C201

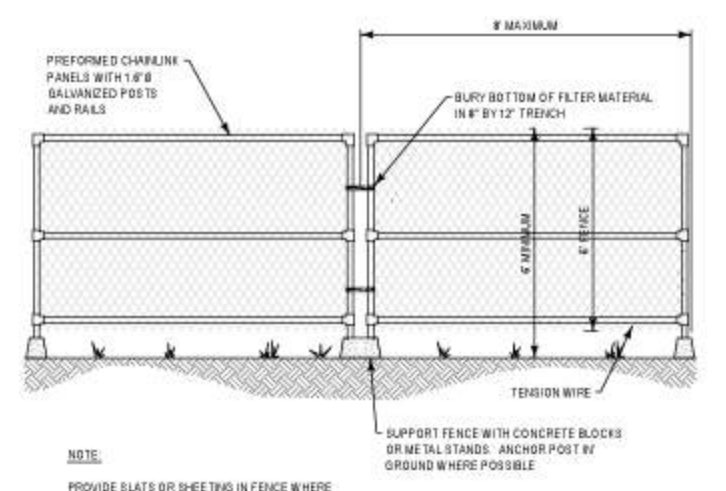
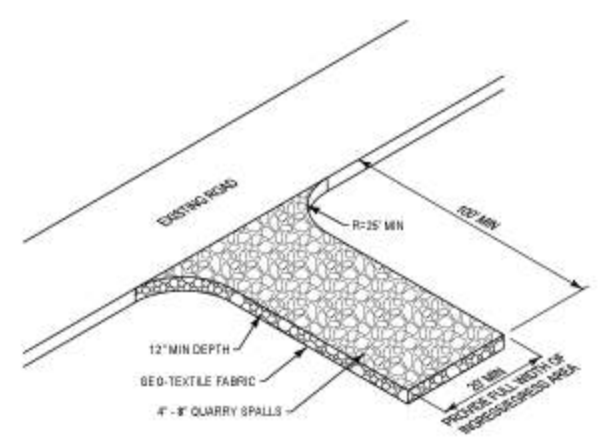
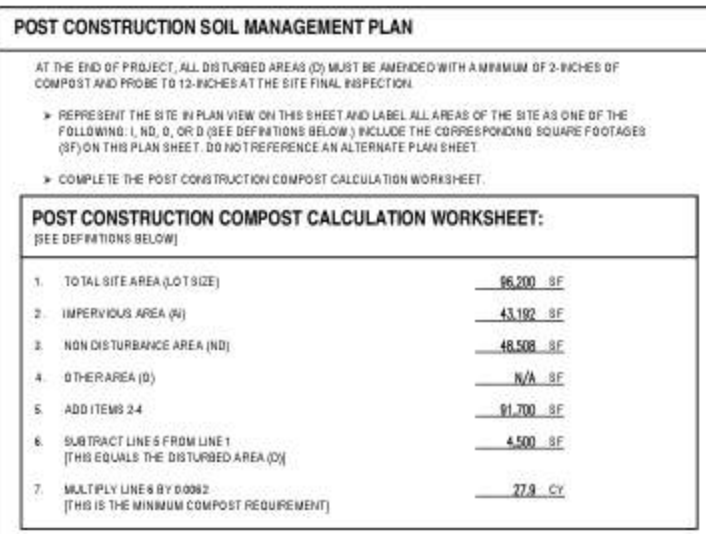
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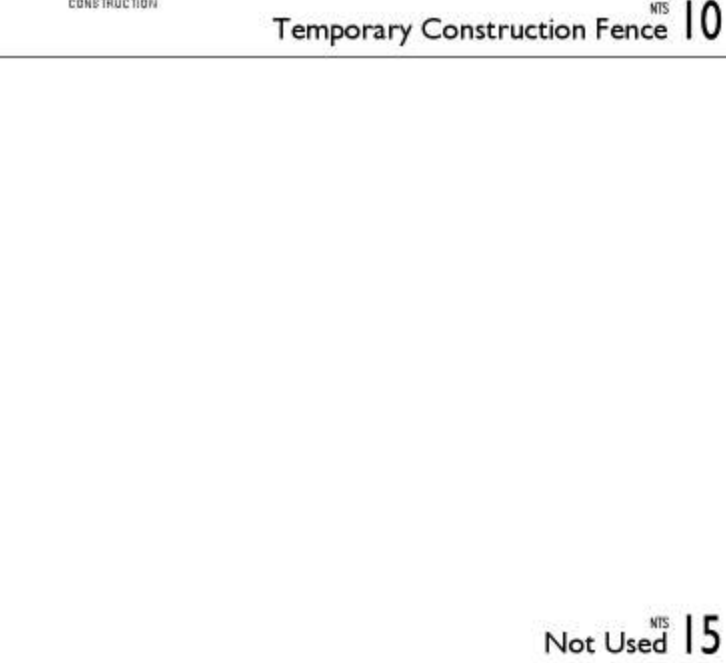
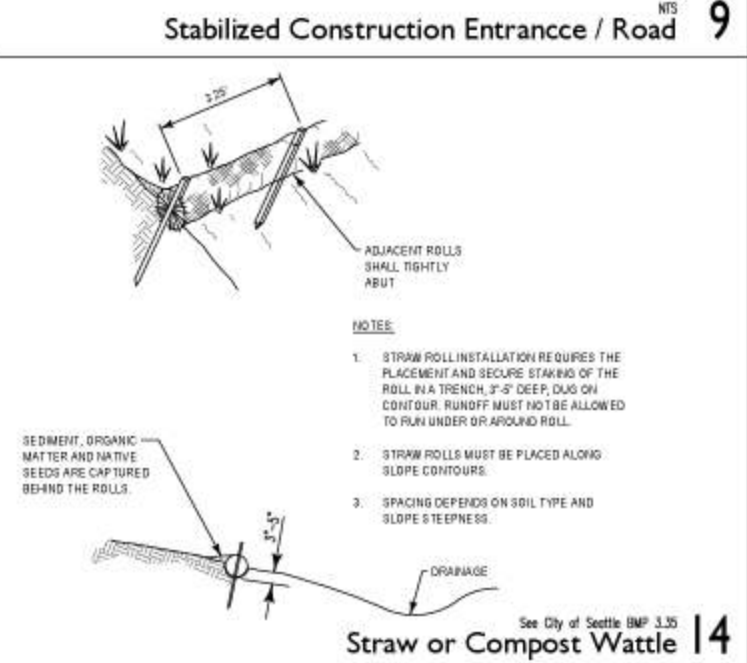
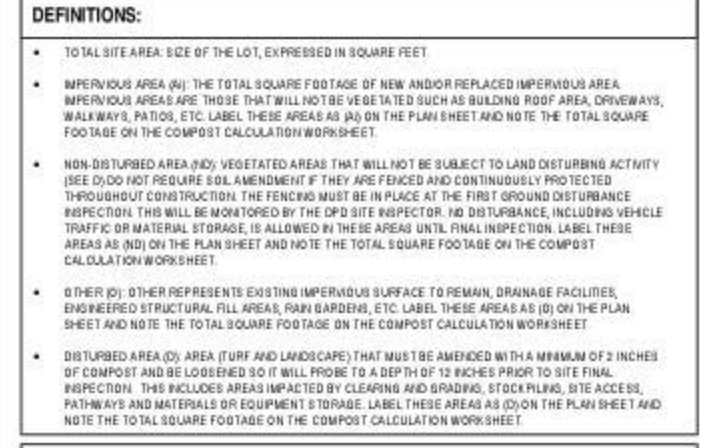
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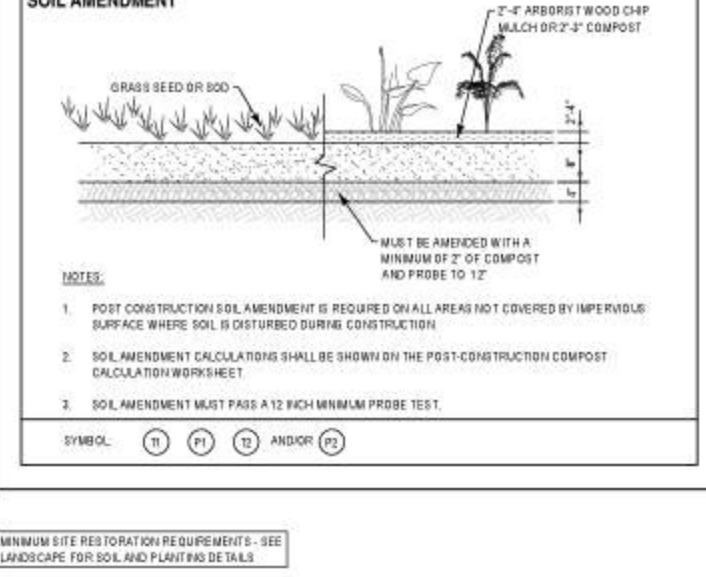
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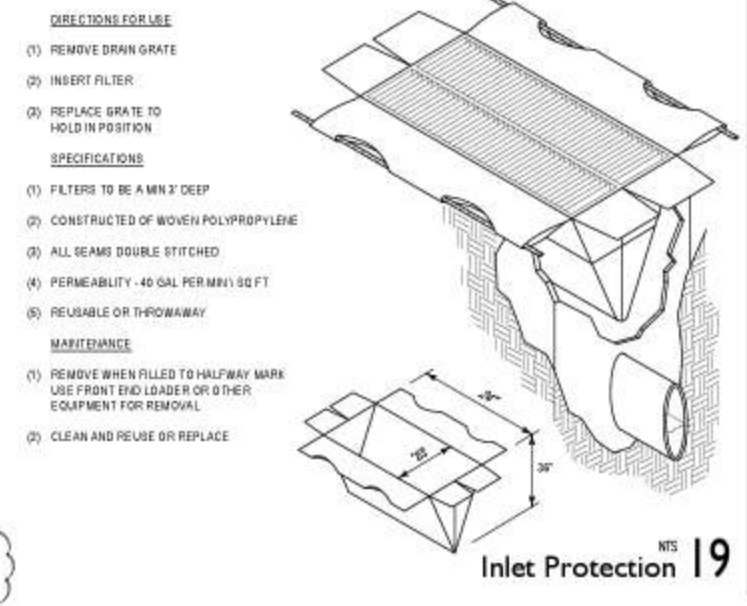


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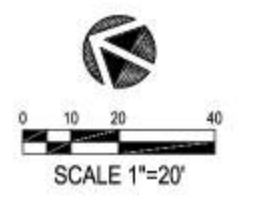


Seattle - Post Construction Soil Management Plan 18



NTS
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MATCH LINE - SEE SHEET C301

Legend

---	PROPERTY LINE
---	STORM DRAINAGE PIPE
---	YD/CDC/DCB 2MH
---	SANITARY SEWER
---	SANITARY M/WCO
---	WATER MAIN
---	HW/DCP/WALVE
---	WATER VALVE/METER
---	TREE CANOPY / EXCEPTIONAL TREE
---	EX / NEW CONCRETE
---	PROPOSED ASPHALT

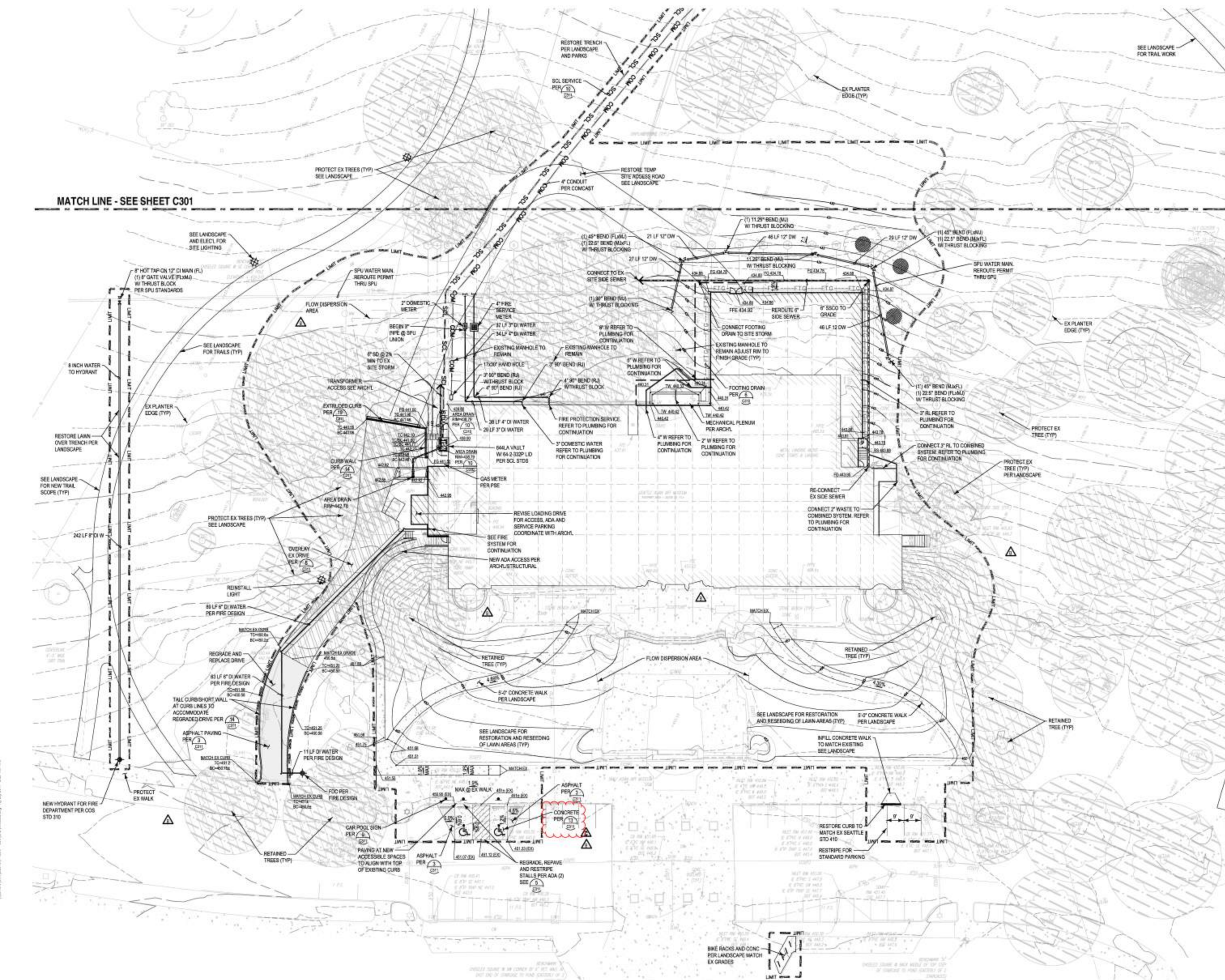
- Water Service Notes**
- APPLICATION FOR NEW METEDED WATER SERVICE AND ALL FEES PAID IS REQUIRED 60 TO 90 DAYS BEFORE SERVICE WILL BE AVAILABLE. OWNER WILL NEED WATER AVAILABILITY CERTIFICATE AND LEGAL DESCRIPTION OF PROPERTY WHEN MAKING APPLICATION.
 - ALL WATER SERVICES PIPING ON PROPERTY MUST BE INSPECTED PRIOR TO BACKFILLING TRENCH.
 - FOR ALL WATER SERVICE INFORMATION AND INSPECTION, PHONE (206) 884-8800.

- General Notes on Plans for 4" Through 12" Water Mains**
- UNLESS OTHERWISE NOTED
 - ALL MATERIALS FOR WATER DISTRIBUTION SHALL BE NEW. PERMITEE WILL PROVIDE REQUIRED HYDRANTS AT THE PERMITEE'S EXPENSE. PERMITEE SHALL PROVIDE THE CONNECTING PIPE AND FITTINGS.
 - PIPE (W/ 4" AND LARGER SHALL BE DUCTILE IRON CONFORMING TO AWWA C-151 WITH GEMENT MORTAR LINING CONFORMING TO AWWA C-104 UNLESS OTHERWISE NOTED. JOINTS SHALL BE MECHANICAL OR SLIP JOINT.
 - UNLESS PROVIDED BY A PRE-APPROVED MANUFACTURER, PIPE (W/ 4" AND LARGER SHALL BE SUBJECT TO SPV TESTING PROCEDURES PRIOR TO INSTALLATION.
 - ALL FITTINGS SHALL BE DUCTILE IRON CONFORMING TO AWWA C-110 AND C-111, OR AWWA C-153, AND SHALL BE CEMENT MORTAR LINED CONFORMING TO AWWA C-104.
 - ALL CONNECTIONS TO EXISTING WATER MAINS SHALL BE MADE IN CONFORMANCE WITH STANDARD PLAN #315.1A.
 - PRIOR TO LAYING PIPE THE CONTRACTOR SHALL, IN THE PRESENCE OF THE CITY INSPECTOR, EXPOSE THE EXISTING WATER MAIN TO DETERMINE ITS ELEVATION AND ALIGNMENT.
 - CARE SHALL BE EXERCISED WHEN EXCAVATING NEAR EXISTING CHARGED WATER MAINS.
 - UTILITIES THAT APPEAR CLOSE TO THE PROPOSED WATER MAIN SHALL BE EXPOSED BY THE CONTRACTOR PRIOR TO LAYING THE WATER MAIN TO DETERMINE IF CHANGES ARE NEEDED.
 - WATERSEWER SEPARATION SHALL BE PER STANDARD PLAN #336. IT SHALL BE THE PERMITEE'S RESPONSIBILITY TO INSTALL DUCTILE IRON PIPE IN PLACE OF ANY OTHER SANITARY SEWER PIPE MATERIAL, WHERE SANITARY SEWERS ARE LOCATED ABOVE AND CLOSER THAN 10 FEET, OR CROSS OVER ANY WATER LINE.
 - REFER TO SECTION 1407.17 (2) FOR MINIMUM UTILITY CLEARANCES.
 - ALL WATER MAINS SHALL BE PRESSURE TESTED (300 PSI) AND DISINFECTED IN ACCORDANCE WITH SECTION 11.31.22 OF THE STANDARD SPECIFICATIONS. ALL PRESSURE TESTING SHALL BE DONE IN THE PRESENCE OF THE CONSTRUCTION ENGINEER. THE CONTRACTOR IS TO PROVIDE PLUGS AND TEMPORARY BLOWOFF ASSEMBLIES FOR PRESSURE TESTING AND DISINFECTION. SEE STANDARD PLAN #330 FOR FLUSHING CONNECTION DETAILS.
 - HORIZONTAL ANGLE POINTS & VERTICAL GRADE POINTS SHALL BE CONSTRUCTED BY DEFLECTING PIPE JOINTS, UNLESS OTHERWISE SPECIFIED.
 - CONCRETE WATER MAIN THRUST BLOCKING FOR HORIZONTAL FITTINGS SHALL BE PER STANDARD PLAN #331.1.
 - HYDRANT INSTALLATION SHALL BE PER STANDARD PLAN #315.1A.
 - RESTRAINT JOINT PIPE IS REQUIRED IN THOSE AREAS WHERE THE TERRAIN IS GREATER THAN 15% OR THE SOIL IS SUBJECT TO LIQUEFACTION OR THE AREA IS DEFINED AS SENSITIVE OR WHERE SPACE IS COMPROMISED FOR MECHANICAL JOINT OR CEMENT BLOCKING OR WHERE REQUIRED BY THE CITY OF SEATTLE.
 - HYDRANT CONNECTION SHALL BE 8" DP D. 52 CONFORMING TO AWWA C-151 WITH CEMENT MORTAR LINING CONFORMING TO AWWA C-104.
 - VALVE BOX AND OPERATING NUT EXTENSIONS SHALL BE PER STANDARD PLAN #315.1A.
 - PIPE SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE, CONFORMING TO AWWA C-105.
 - WATER MAIN TRENCH SHALL BE AS SHOWN ON STANDARD PLAN 300.21.
 - ALL FITTINGS SHALL BE RESTRAINED PER SECTION 9-30.2(B) OF CITY OF SEATTLE 2011 STANDARD SPECIFICATIONS OR LATEST EDITION.

SEE LANDSCAPE FOR DETAILED TREE AND SHRUB PROTECTION INFORMATION

SEE LANDSCAPE FOR DETAILED GRADING, VERIFY ALL FINISH GRADE WITH CURRENT LANDSCAPE GRADING DESIGN.

ALL SIDE SEWER CONNECTIONS PER SDCI DIRECTOR'S RULE 4-2011 "REQUIREMENTS FOR DESIGN AND CONSTRUCTION OF SIDE SEWERS."



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 F 206 743 5491

A CONSULTING
 STRUCTURAL AND CIVIL
 ENGINEERING CORPORATION



SDCI Use Only

SAM ASIAN
 ART
 MUSEUM

Asian Art Museum Expansion & Renovation
 Volunteer Park / 1400 E Prospect /
 Seattle, WA 98112

Revisions

No.	Date	Description
1	06/01/17	Permit Corrections 1
2	10/29/17	Permit Corrections 2

Submitted

Construction Documents

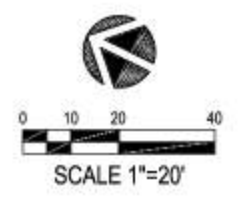
Drawn APC
 Checked KAW
 LMN Proj No 16039.01
 Date 06/23/17

Sheet
 Title
 Sheet Number

Site Plan

C300

Call before you Dig
 Dig 8-1-1
 1-800-424-8888
 UNDERGROUND SERVICE (USA)



Legend

N 77.3370° E = 46.81'	PROPERTY LINE
8" 50' 4" x 4"	STORM DRAINAGE PIPE
YDCCDCB/CB 2MH	YDCCDCB/CB 2MH
8" 55' 4" x 4"	SANITARY SEWER
SANITARY MVCO	SANITARY MVCO
12" 0" W	WATER MAIN
FHFDPCPVWALVE	FHFDPCPVWALVE
12" 0" W	WATER VALVEMETER
TREE CANOPY / EXCEPTIONAL TREE	TREE CANOPY / EXCEPTIONAL TREE
EX / NEW CONCRETE	EX / NEW CONCRETE
PROPOSED ASPHALT	PROPOSED ASPHALT

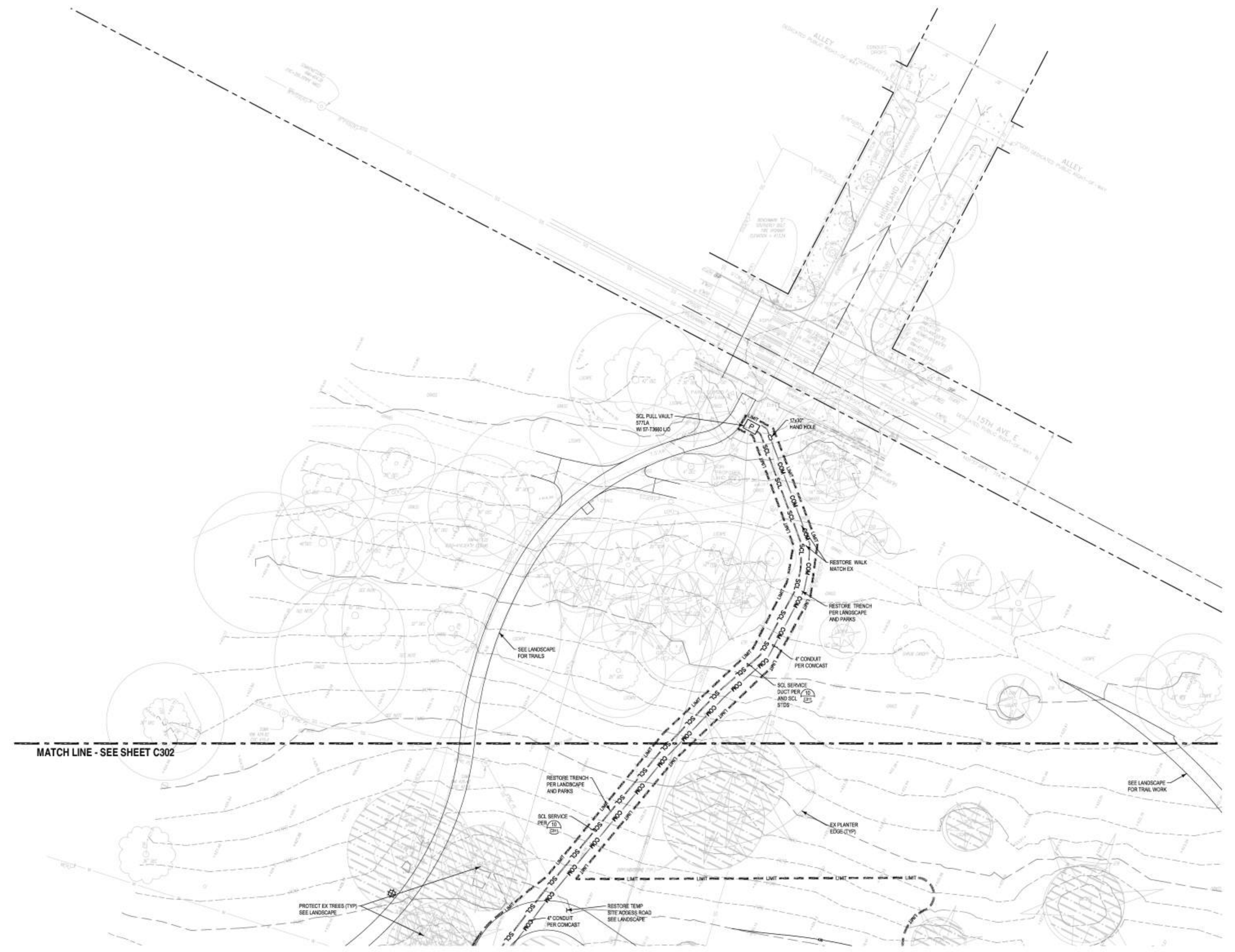
- Water Service Notes**
- APPLICATION FOR NEW METERED WATER SERVICE AND ALL FEES AND IS REQUIRED 60 TO 90 DAYS BEFORE SERVICE WILL BE AVAILABLE. OWNER WILL NEED WATER AVAILABILITY CERTIFICATE AND LEGAL DESCRIPTION OF PROPERTY WHEN MAKING APPLICATION.
 - ALL WATER SERVICES PIPING ON PROPERTY MUST BE INSPECTED PRIOR TO BACKFILLING TRENCH.
 - FOR ALL WATER SERVICE INFORMATION AND INSPECTION, PHONE (206) 884-8800.

- General Notes on Plans for 4" Through 12" Water Mains**
- UNLESS OTHERWISE NOTED
 - ALL MATERIALS FOR WATER DISTRIBUTION SHALL BE NEW. PERMITEE WILL PROVIDE REQUIRED HYDRANTS AT THE PERMITEE'S EXPENSE. PERMITEE SHALL PROVIDE THE CONNECTING PIPE AND FITTINGS.
 - PIPE (W/ 4" AND LARGER SHALL BE D. I. P. CL. 52 CONFORMING TO AWWA C-151 WITH CEMENT MORTAR LINING CONFORMING TO AWWA C-104. UNLESS OTHERWISE NOTED, JOINTS SHALL BE MECHANICAL OR SLIP JOINT.
 - UNLESS PROVIDED BY A PRE-APPROVED MANUFACTURER, PIPE (W/ 4" AND LARGER SHALL BE SUBJECT TO SPV TASTE TESTING PROCEDURES PRIOR TO INSTALLATION.
 - ALL FITTINGS SHALL BE DUCTILE IRON CONFORMING TO AWWA C-110 AND C-111, OR AWWA C-153, AND SHALL BE CEMENT MORTAR LINED CONFORMING TO AWWA C-104.
 - ALL CONNECTIONS TO EXISTING WATER MAINS SHALL BE MADE IN CONFORMANCE WITH STANDARD PLAN #300.
 - PRIOR TO LAYING PIPE THE CONTRACTOR SHALL, IN THE PRESENCE OF THE CITY INSPECTOR, EXPOSE THE EXISTING WATER MAIN TO DETERMINE ITS ELEVATION AND ALIGNMENT.
 - CARE SHALL BE EXERCISED WHEN EXCAVATING NEAR EXISTING CHARGED WATER MAINS.
 - UTILITIES THAT APPEAR CLOSE TO THE PROPOSED WATER MAIN SHALL BE EXPOSED BY THE CONTRACTOR PRIOR TO LAYING THE WATER MAIN TO DETERMINE IF CHANGES ARE NEEDED.
 - WATERSEWER SEPARATION SHALL BE PER STANDARD PLAN #306. IT SHALL BE THE PERMITEE'S RESPONSIBILITY TO INSTALL DUCTILE IRON PIPE IN PLACE OF ANY OTHER SANITARY SEWER PIPE MATERIAL, WHERE SANITARY SEWERS ARE LOCATED ABOVE AND CLOSER THAN 10 FEET, OR CROSS OVER ANY WATER LINE.
 - REFER TO SECTION 1407.17 (2) FOR MINIMUM UTILITY CLEARANCES.
 - ALL WATER MAINS SHALL BE PRESSURE TESTED (300 PSI) AND DISINFECTED IN ACCORDANCE WITH SECTION 1411.12 OF THE STANDARD SPECIFICATIONS. ALL PRESSURE TESTING SHALL BE DONE IN THE PRESENCE OF THE CONSTRUCTION ENGINEER. THE CONTRACTOR IS TO PROVIDE PLUGS AND TEMPORARY BLOWOFF ASSEMBLIES FOR PRESSURE TESTING AND DISINFECTION. SEE STANDARD PLAN #300 FOR FLUSHING CONNECTION DETAILS.
 - HORIZONTAL ANGLE POINTS & VERTICAL GRADE POINTS SHALL BE CONSTRUCTED BY DEFLECTING PIPE JOINTS, UNLESS OTHERWISE SPECIFIED.
 - CONCRETE WATER MAIN THRUST BLOCKING FOR HORIZONTAL FITTINGS SHALL BE PER STANDARD PLAN #301.
 - HYDRANT INSTALLATION SHALL BE PER STANDARD PLAN #311.1A.
 - RESTRAINT JOINT PIPE IS REQUIRED IN THOSE AREA WHERE THE TERRAIN IS GREATER THAN 15% OR THE SOIL IS SUBJECT TO LIQUEFACTION OR THE AREA IS DEFINED AS SENSITIVE OR WHERE SPACE IS CONFINED (NO ROOM FOR MECHANICAL JOINT OR CONCRETE BLOCKING) OR WHERE REQUIRED BY THE CITY OF SEATTLE.
 - HYDRANT CONNECTION SHALL BE 8" DI. CL. 52 CONFORMING TO AWWA C-151 WITH CEMENT MORTAR LINING CONFORMING TO AWWA C-104.
 - VALVE BOX AND OPERATING NUT EXTENSIONS SHALL BE PER STANDARD PLAN #315.1A.
 - PIPE SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE CONFORMING TO AWWA C-105.
 - WATER MAIN TRENCH SHALL BE AS SHOWN ON STANDARD PLAN 300.21.
 - ALL FITTINGS SHALL BE RESTRAINED PER SECTION 9-30.2(B) OF CITY OF SEATTLE 2011 STANDARD SPECIFICATIONS OR LATEST EDITION.

SEE LANDSCAPE FOR DETAILED TREE AND SHRUB PROTECTION INFORMATION

SEE LANDSCAPE FOR DETAILED GRADING. VERIFY ALL FINISH GRADE WITH CURRENT LANDSCAPE GRADING DESIGN.

ALL SIDE SEWER CONNECTIONS PER SDCI DIRECTOR'S RULE 4-2011 "REQUIREMENTS FOR DESIGN AND CONSTRUCTION OF SIDE SEWERS."



MATCH LINE - SEE SHEET C302

(unverified) 2017/01/10 10:00 AM, DC, No. 07/20/17 11:27 AM, 48"

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Submitted

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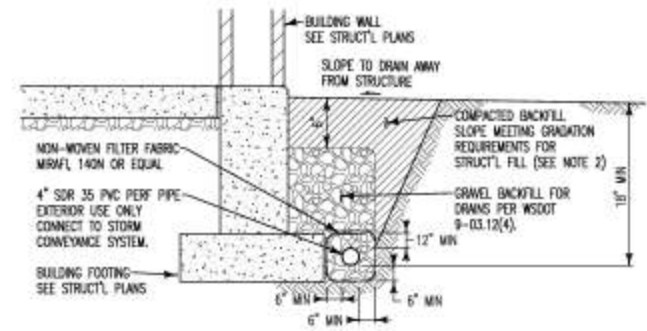
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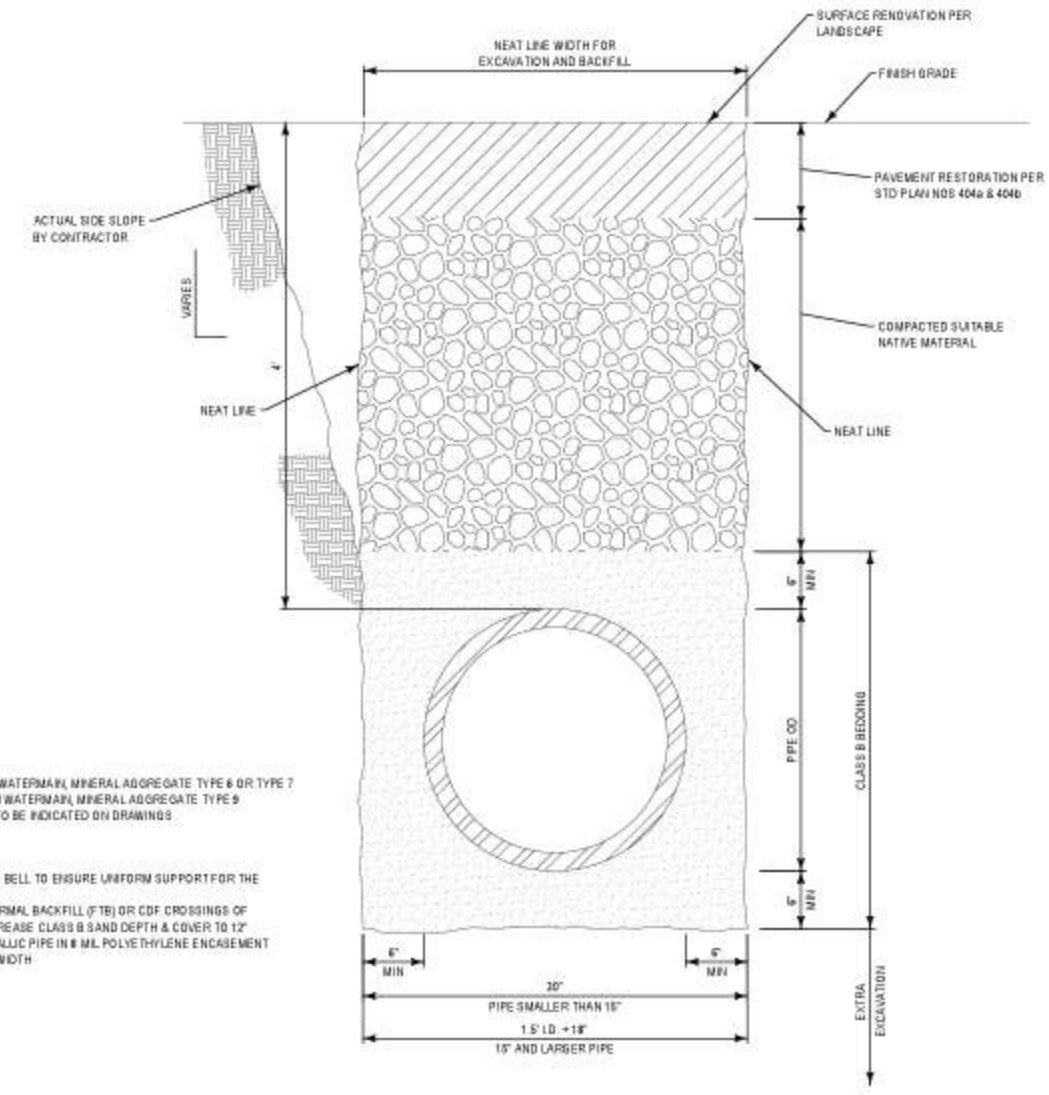
Site Plan

C301

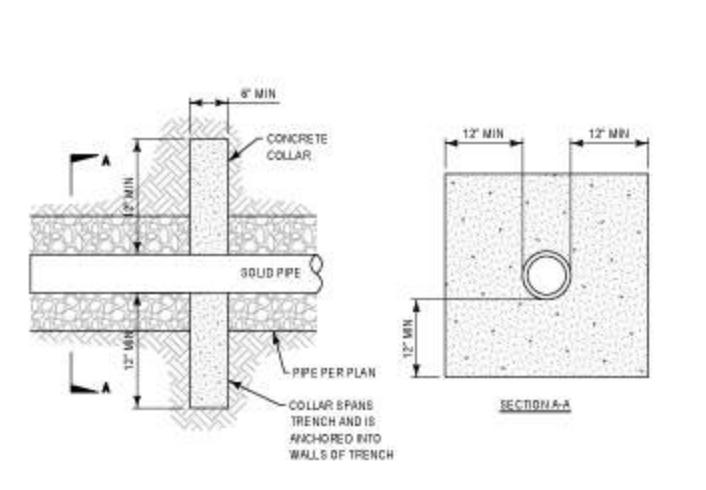


- NOTES:**
- SEE ARCHITECTURAL PLANS FOR DRAINAGE GRANEL BENEATH BUILDING SLAB.
 - STRUCTURAL FILL SHOULD CONSIST OF WELL-GRADED GRANULAR SOIL WITH NOT MORE THAN SIX FINES (BY WEIGHT BASE ON 3/4" PORTION) PASSING NO. 200 SIEVE (BY WEIGHT SIEVING) WITH NO PLASTIC FINES.
 - BACKFILL WITHIN 18" OF WALL SHOULD BE COMPACTED WITH HAND-OPERATED EQUIPMENT. HEAVY EQUIPMENT SHOULD NOT BE USED FOR BACKFILL, AS SUCH EQUIPMENT OPERATED NEAR THE WALL COULD INCREASE LATERAL EARTH PRESSURES AND POSSIBLY DAMAGE THE WALL.
 - ALL BACKFILL SHOULD BE PLACED IN LAYERS NOT EXCEEDING 6" THICKNESS AND DENSELY COMPACTED. BENEATH FINED OR SIDEWALK AREAS, COMPACT TO AT LEAST 95% MODIFIED PROCTOR MAXIMUM DENSITY (ASTM D1557), OTHERWISE COMPACT TO SIX MINIMUM.
- SUBDRAIN PIPE**
- 4" MINIMUM DIAMETER PERFORATED OR SLOTTED PIPE, TIGHT JOINTS, SLOPED TO DRAIN (6"/100' MIN. SLOPE); PROVIDE CLEAN-OUTS.
 - PERFORATED PIPE HOLES (3/16" TO 1/4" Ø) TO BE IN LOWER HALF OF THE PIPE WITH LOWER QUARTER SEGMENT UNPERFORATED FOR WATER FLOW.
 - SLOTTED PIPE TO HAVE 1/8" MAXIMUM WIDTH SLOTS.

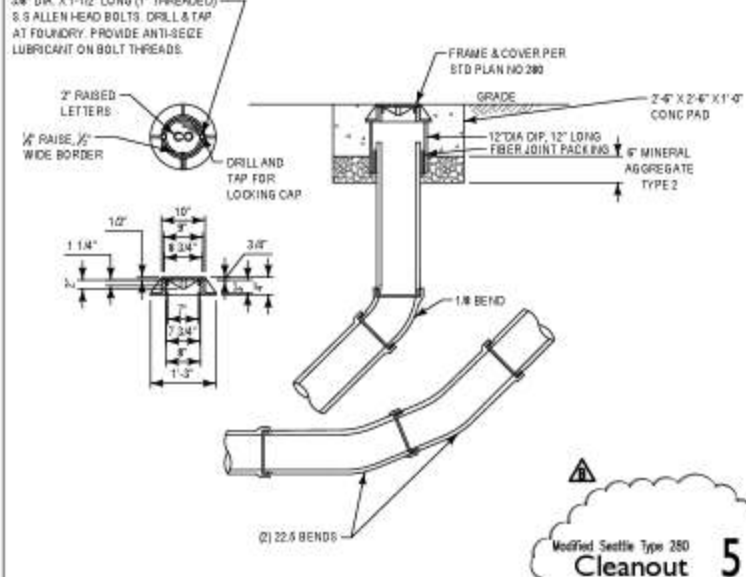
Exterior Footing Drain w/ Filter Fabric Wrap **6**



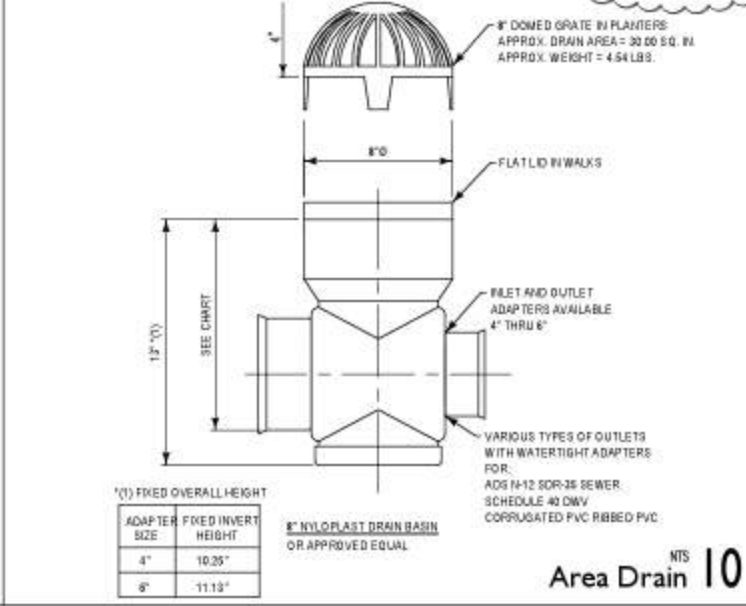
Watermain Trench and Bedding **8**



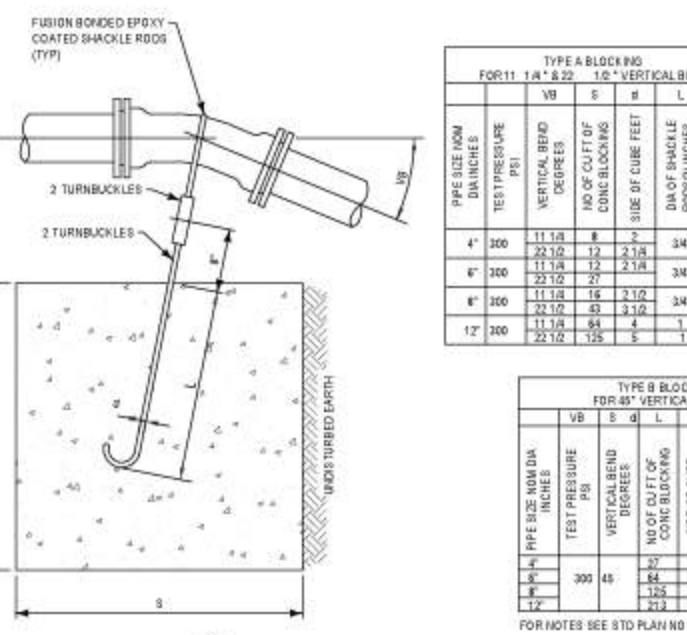
Pipe Trench Dam **4**



Cleanout **5**



Area Drain **10**



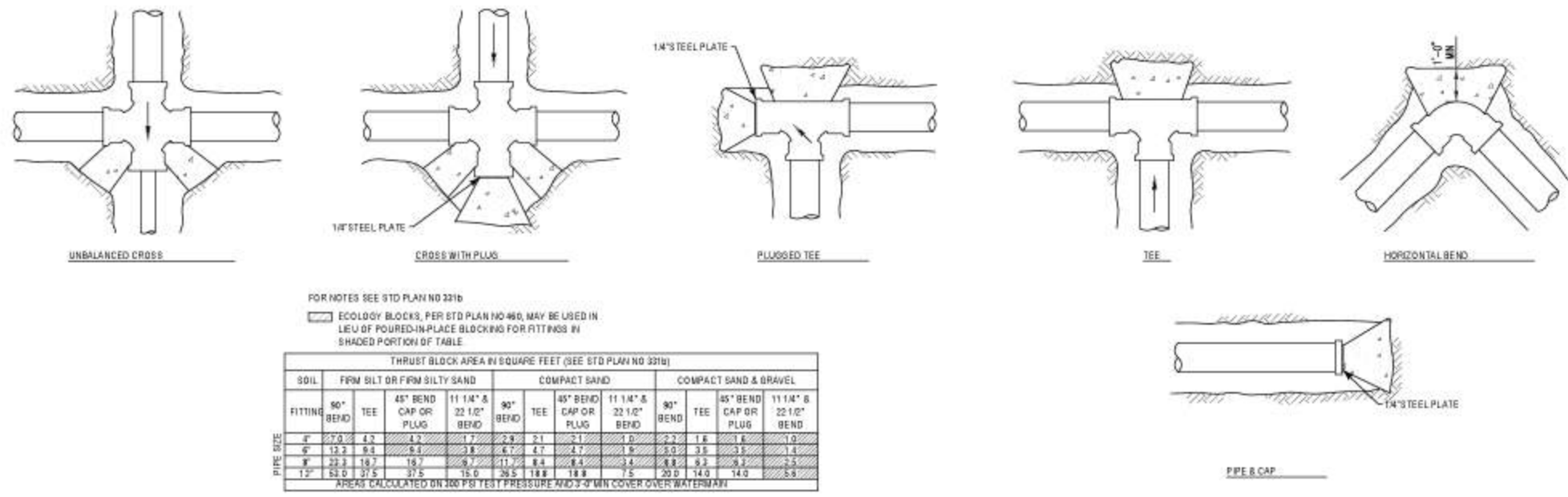
TYPE A BLOCKING FOR 11 1/4" & 20 1/2" VERTICAL BENDS						
PIPE SIZE (NOM DIA) INCHES	TEST PRESSURE PSI	VERTICAL BEND DEGREE	NO. OF CUT 60° CONE BLOCKING	SIZE OF CUBE FEET	NO. OF SHACKLE RODS/INCHES	DEPTH OF FILL IN CONCRETE INCHES
4"	300	22.5°	12	2.18	34	18
6"	300	22.5°	12	2.18	34	24
8"	300	22.5°	12	2.18	34	24
12"	300	22.5°	12	2.18	34	24

TYPE B BLOCKING FOR 45° VERTICAL BENDS						
PIPE SIZE (NOM DIA) INCHES	TEST PRESSURE PSI	VERTICAL BEND DEGREE	NO. OF CUT 60° CONE BLOCKING	SIZE OF CUBE FEET	NO. OF SHACKLE RODS/INCHES	DEPTH OF FILL IN CONCRETE INCHES
4"	300	45°	4	0.71	10	20
6"	300	45°	4	0.71	10	20
8"	300	45°	4	0.71	10	20
12"	300	45°	4	0.71	10	20

TYPE 'C' BLOCK FOR 11 1/4", 22-10", 45° AND 90° VERTICAL BENDS									
FITTING	THRUST BLOCK AREA IN SQUARE FEET			THRUST BLOCK AREA IN SQUARE FEET			THRUST BLOCK AREA IN SQUARE FEET		
	SOIL	FIRM SILT OR FIRM SILTY SAND	COMPACT SAND	COMPACT SAND	COMPACT SAND	COMPACT SAND & GRAVEL	SOIL	FIRM SILT OR FIRM SILTY SAND	COMPACT SAND
4"	5.8	4.2	1.7	2.9	2.1	1.0	2.2	1.6	1.0
6"	13.2	9.6	3.9	6.7	4.7	1.9	5.0	3.5	1.4
8"	23.2	16.7	6.7	11.7	8.4	3.4	8.9	6.3	2.5
12"	53.0	37.5	15.0	26.5	18.8	7.5	20.0	14.0	5.6

- NOTES:**
- LOCATION AND SIZE OF BLOCKING FOR PIPE LARGER THAN 12" DIAMETER AND FOR SOIL TYPES DIFFERENT THAN SHOWN SHALL BE DETERMINED BY THE ENGINEER.
 - ALL BLOCKING FOR HORIZONTAL FITTINGS (POURED IN PLACE) SHALL BEAR AGAINST UNDISTURBED NATIVE GROUND.
 - ALL POURED THRUST BLOCKS SHALL BE BACKFILLED AFTER MIN 1 DAY. PRESSURE TESTING SHALL OCCUR AFTER CONCRETE HAS REACHED 75% STRENGTH.
 - ALL BLOCKING TO BE CONCRETE CL 5 (1-10).
 - AFTER INSTALLATION SHACKLE RODS AND TURNBUCKLES SHALL BE CLEANED AND COATED WITH 2 COATS OF ASPHALTIC VARNISH, ROYSTON ROYVOTE #12M OR APPROVED EQUAL.
 - SHACKLE RODS SHALL BE FUSION BONDED EPOXY COATED ROUND MILD STEEL, ASTM A 36, WITH THREADS ON ENDS ONLY.
 - BLOCKING AGAINST FITTINGS SHALL BEAR AGAINST THE GREATEST FITTING SURFACE AREA POSSIBLE, BUT SHALL NOT COVER OR ENCLOSE BELL ENDS, JOINT BOLTS OR GLANDS. REASONABLE ACCESS TO BOLTS AND GLANDS SHALL BE PROVIDED.
 - TEMPORARY BLOCKING, IF USED, SHALL BE APPROVED BY ENGINEER.

Thrust Blocking Tables **17**

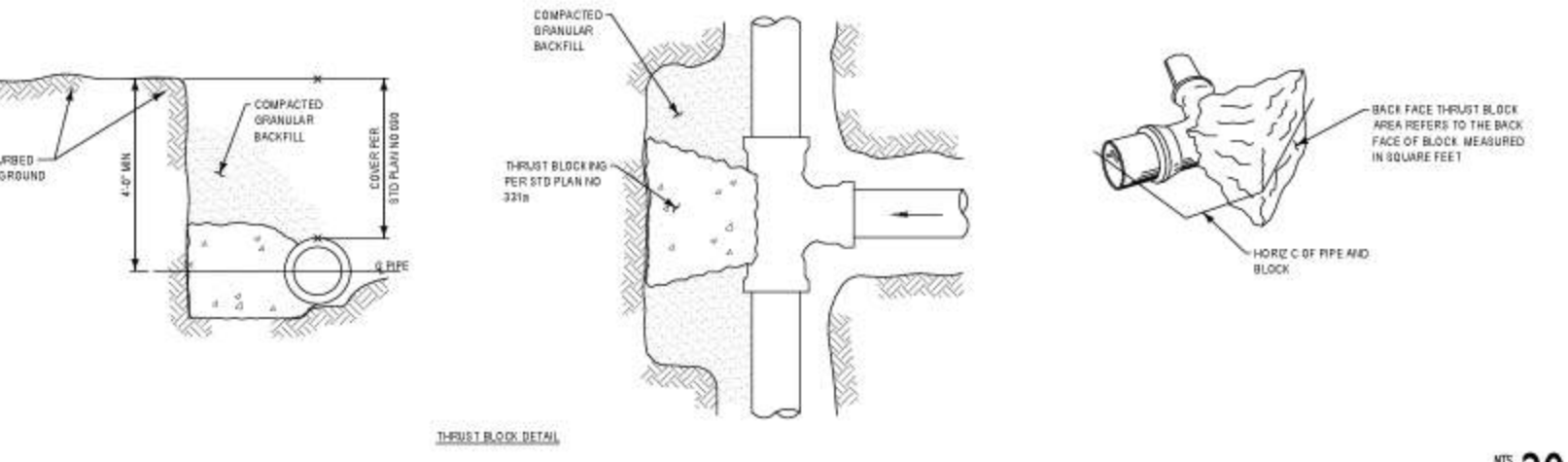


FOR NOTES SEE STD PLAN NO 331b

ECOLOGY BLOCKS, PER STD PLAN NO 466, MAY BE USED IN LEVEL OF POURED-IN-PLACE BLOCKING FOR FITTINGS IN SHADED PORTION OF TABLE

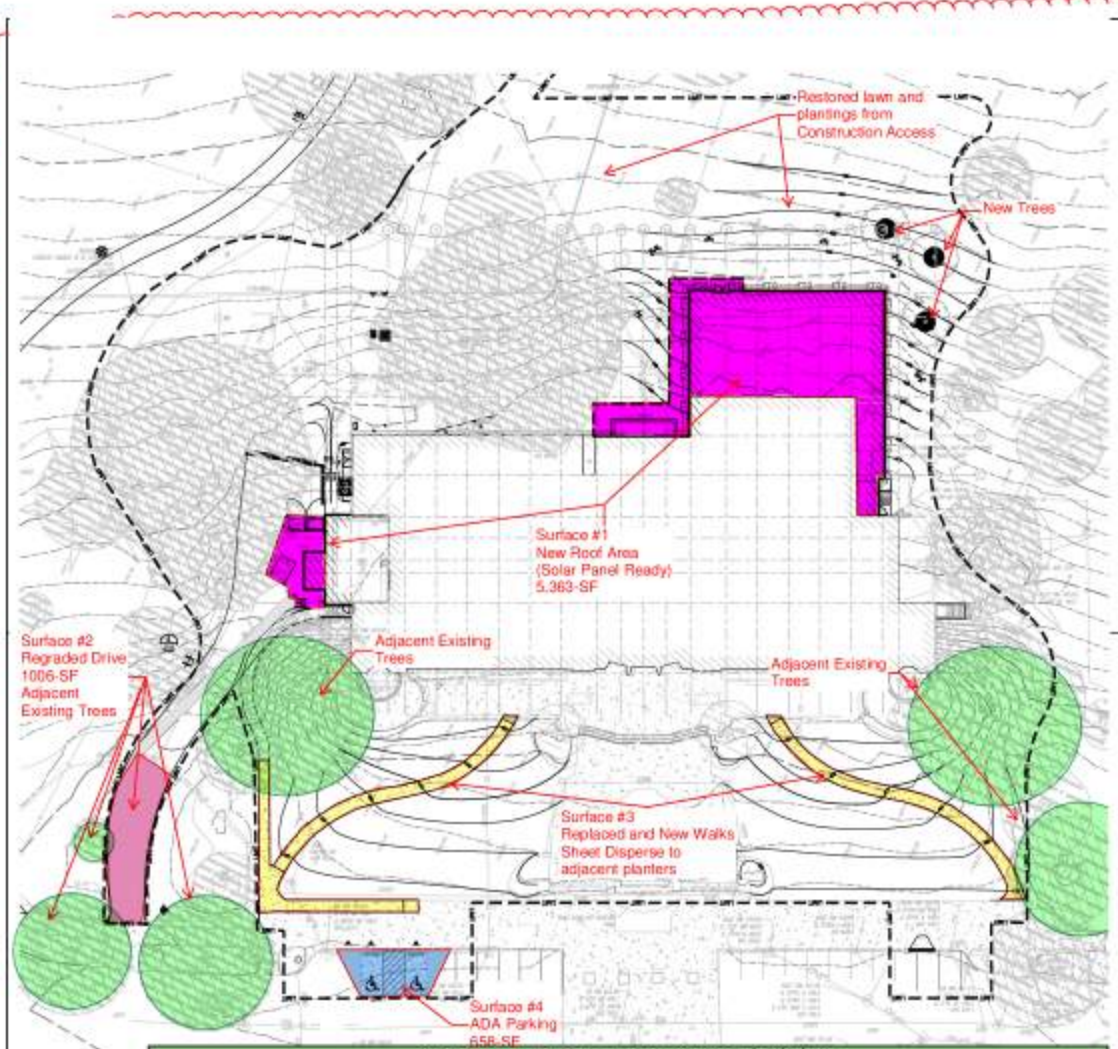
PIPE SIZE	THRUST BLOCK AREA IN SQUARE FEET (SEE STD PLAN NO 331b)									
	FIRM SILT OR FIRM SILTY SAND			COMPACT SAND			COMPACT SAND & GRAVEL			
FITTING	90° TEE	45° BEND CAP OR PLUG	11 1/4" & 22 1/2" BEND	90° TEE	45° BEND CAP OR PLUG	11 1/4" & 22 1/2" BEND	90° TEE	45° BEND CAP OR PLUG	11 1/4" & 22 1/2" BEND	11 1/4" & 22 1/2" BEND
4"	5.8	4.2	1.7	2.9	2.1	1.0	2.2	1.6	1.0	1.0
6"	13.2	9.6	3.9	6.7	4.7	1.9	5.0	3.5	1.4	1.4
8"	23.2	16.7	6.7	11.7	8.4	3.4	8.9	6.3	2.5	2.5
12"	53.0	37.5	15.0	26.5	18.8	7.5	20.0	14.0	5.6	5.6

AREAS CALCULATED ON 300 PSI TEST PRESSURE AND 2'-0" MIN COVER OVER WATERMAIN



Thrust Blocking Detail **20**





On-site Stormwater Management - List Approach Calculator
Site and Drainage Control Summary
Version 07-28-2017

To use the On-Site List Calculator you must select "Enable Content" when the Security Warning appears.

Project Information	Site Address: Asian Art Museum	SDCJ Project Number: 302475
	Primary Contact: Ken Wiersma	SDOT Project Number:
	Project Type: Parcel-Based	Primary Contact E-mail or Phone:

Total Site Area	96,200 sf
Total New plus Replaced Hard Surface Area	8,864 sf
Existing Hard Surface Area to Remain	34,328 sf
Total New and/or Replaced Lawn and Landscaping	4,500 sf
Undisturbed and protected site area	48,508 sf

Was the project lot created or reduced in size after Jan 1, 2016? **No**

Project Engineer: Ken Wiersma, Engineer E-mail: KenW@cplinc.com

On-site Stormwater Management required for $\geq 1,500$ sf of new plus replaced area. **No**

On-site Performance Standard will be used (professional engineer required)? **No**

Site Information
Note: If required for your project, reference the Preliminary Assessment Report (PAR) to complete this section. If the total areas proposed are different from those provided in the PAR, requirements may change.

Approved Point of Stormwater Discharge	Public Combined Sewer Main
Drainage Basin	Combined Sewer Service Area
Is the downstream drainage system considered Capacity Constrained by SPU?	No
Approved Point of Wastewater Discharge	Public Combined Sewer Main
Approved Point of Sub-Surface Discharge	Public Combined Sewer Main
Flow Control is required	No

Water Treatment for pollution-generating surfaces is required **No**

Source Control is required **No**

Environmentally Critical Areas: **Yes**

Temporary dewatering required **No**

Is there known soil and/or groundwater contamination on this site? **No**

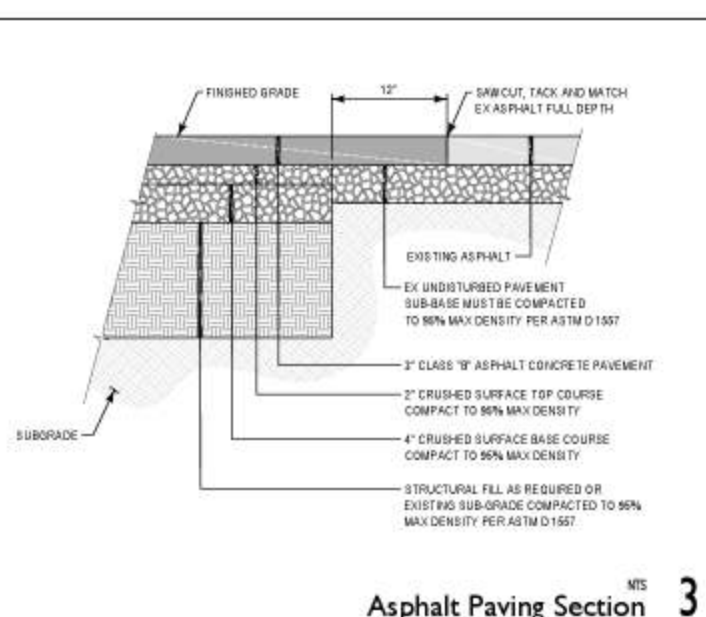
Infiltration Information
Is infiltration investigation required? **No** Why? **Site is mapped as "infiltr. investigation not required"**

On-site Stormwater Management:
Number of roof areas: 1
Number of other surface areas: 3

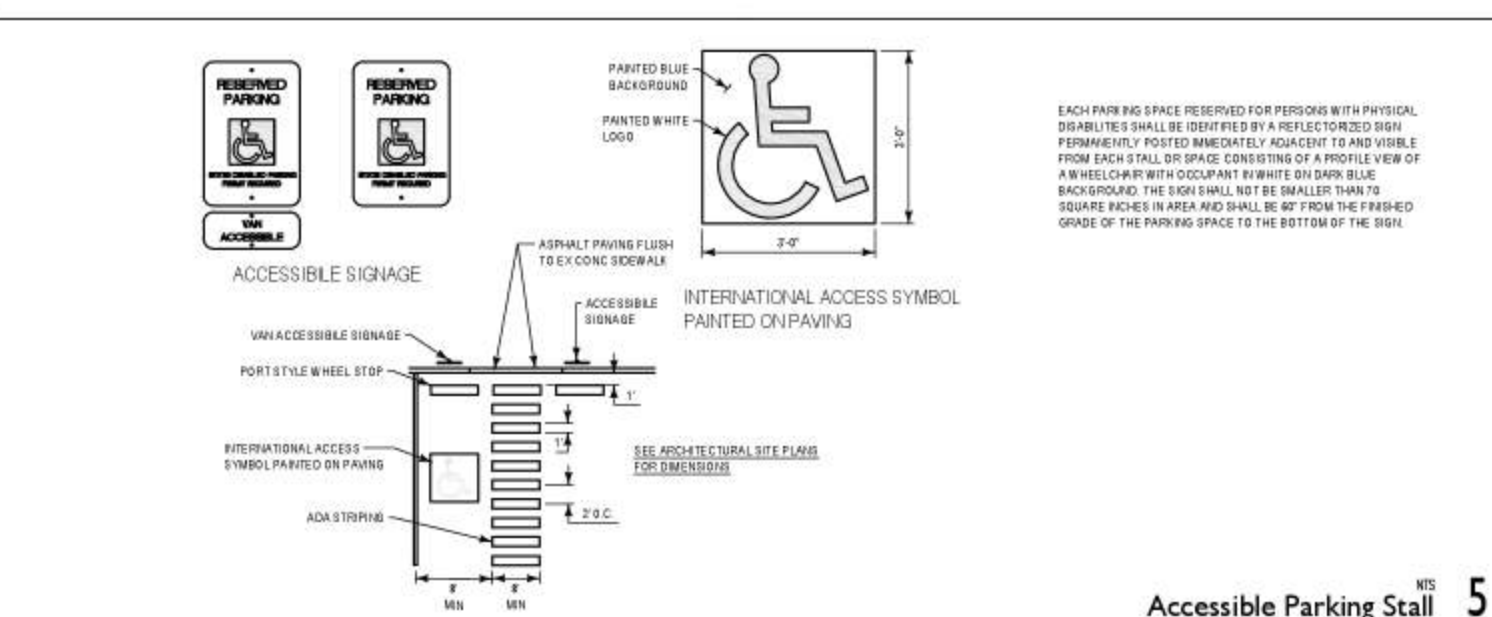
Surface	Surfaces Description	On-site BMP	Contrib. Area (sf)	Facility Size (sf)	Facility Configuration
1	Roof Addition	None Feasible	5,363	-	-
2	Surface Repaved drive	New or Retained Trees	1,006	-	3 Retain Deciduous
3	Surface Replaced and new	Sheet Flow Dispersion	1,837	-	-
4	Surface ADA parking	None Feasible	658	-	-

Total New/Replaced Roof Area	5,363	Total Roof Area Managed	5,363
Total New/Replaced Other Surface Area	3,501	Total Other Surface Managed	3,501
Total Area Managed	8,864	Total Volume Managed On Site	24,521 gal
Estimated compost required for soil amendment	27.9 cy	Volume of compost required for soil amendment will be verified by the DWP Site Inspector for SDCJ permitted projects.	

NTS
Not Used 2

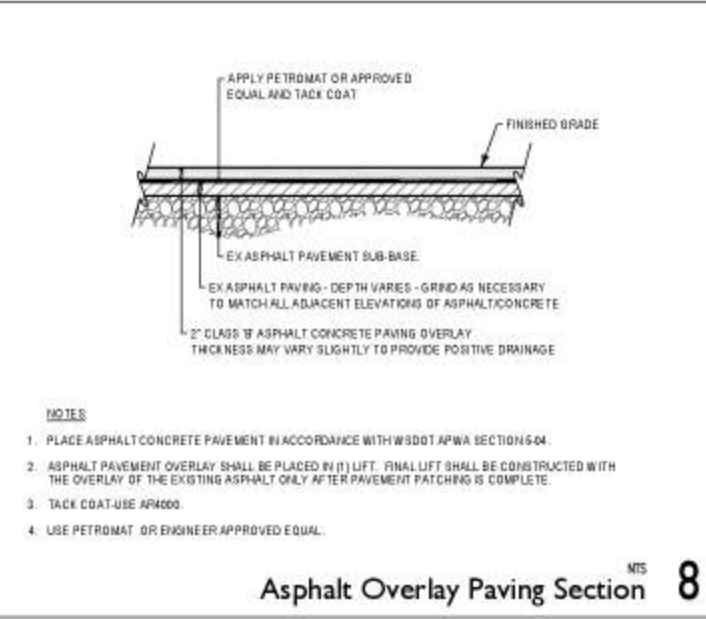


NTS
Asphalt Paving Section 3

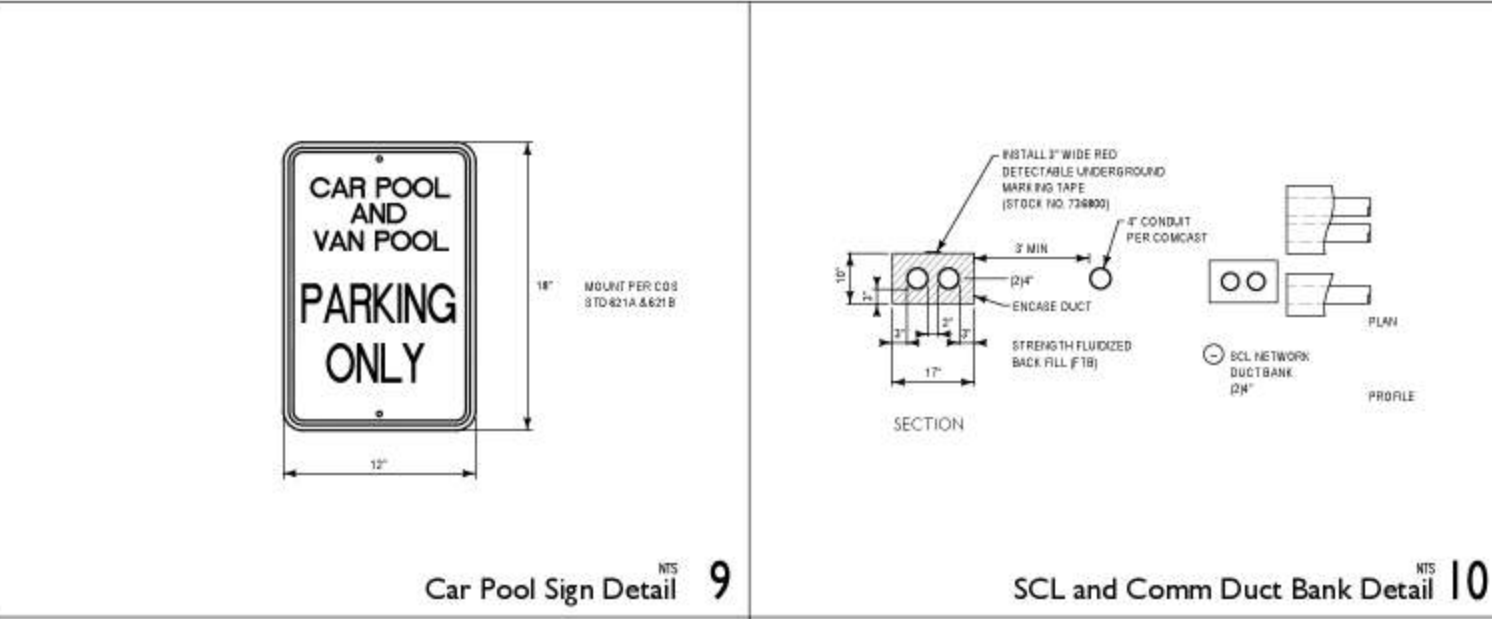


NTS
Accessible Parking Stall 5

NTS
Not Used 7

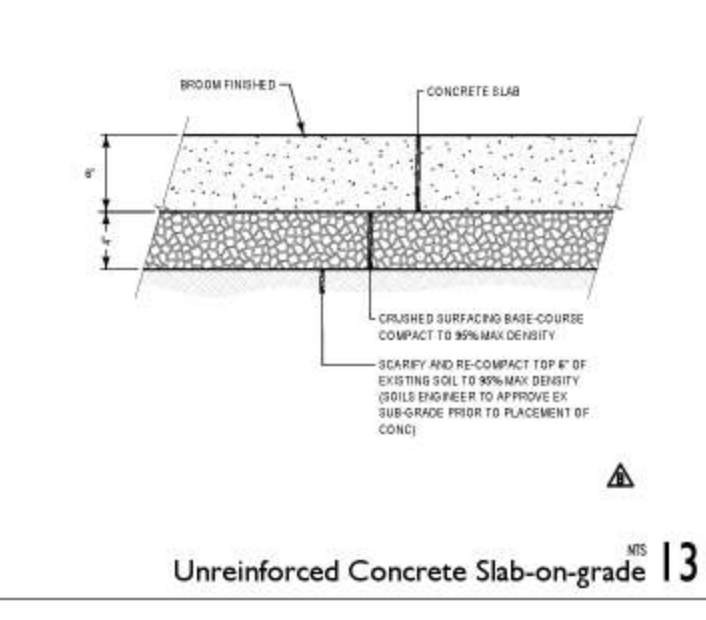


NTS
Asphalt Overlay Paving Section 8

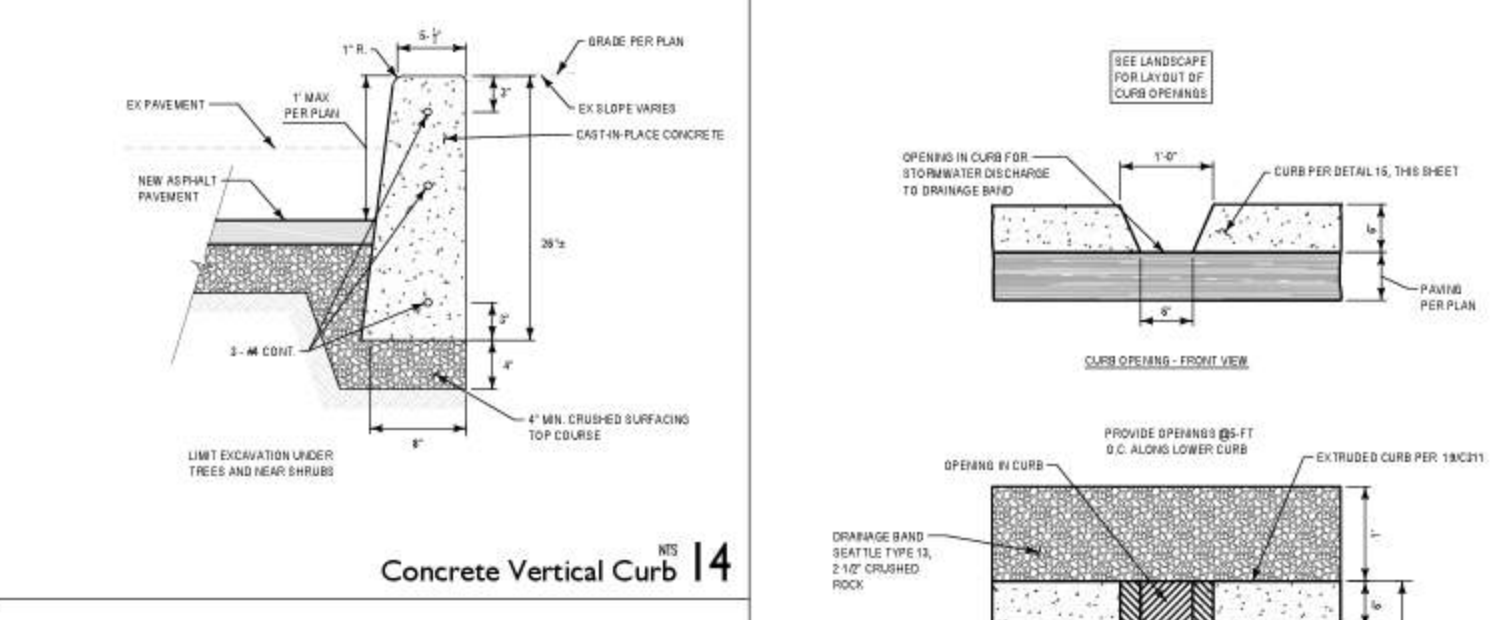


NTS
Car Pool Sign Detail 9

NTS
Not Used 12

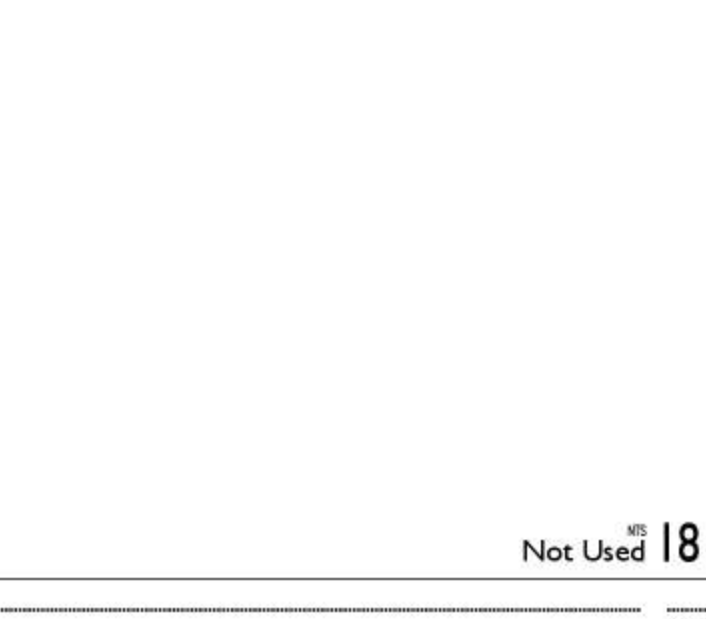


NTS
Unreinforced Concrete Slab-on-grade 13

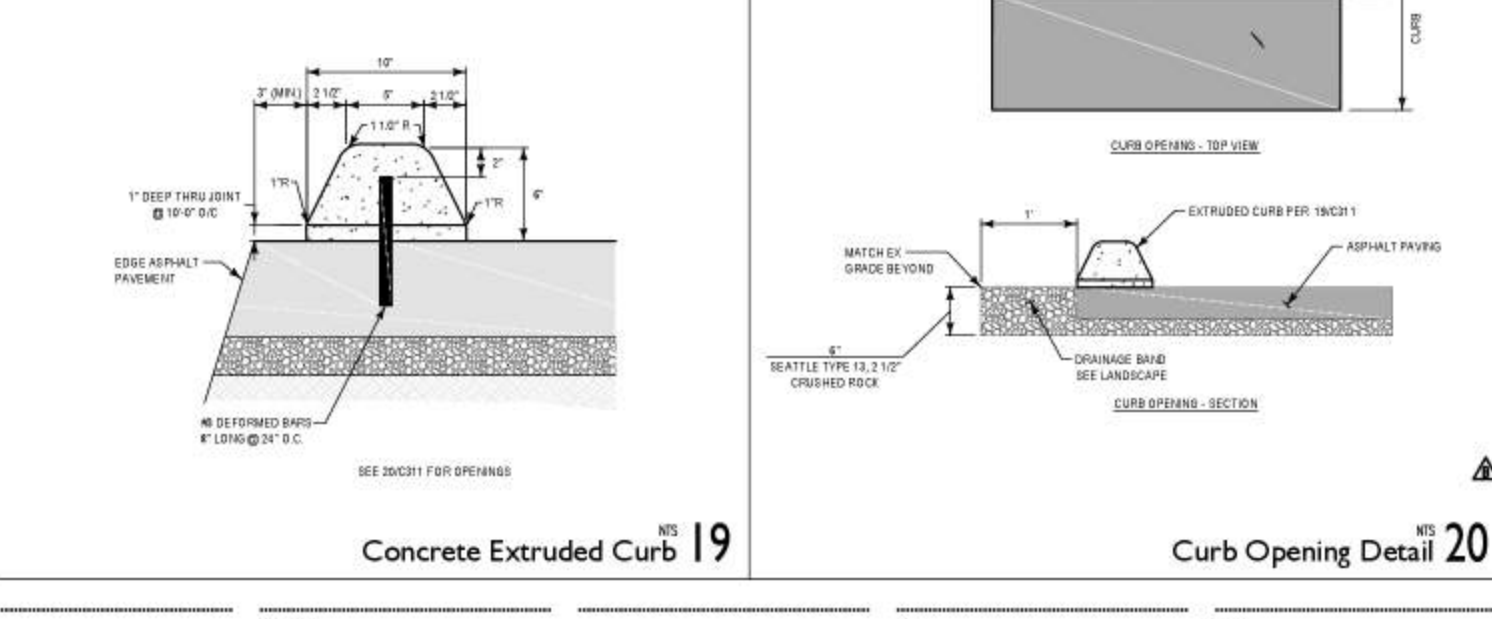


NTS
Concrete Vertical Curb 14

NTS
Not Used 17

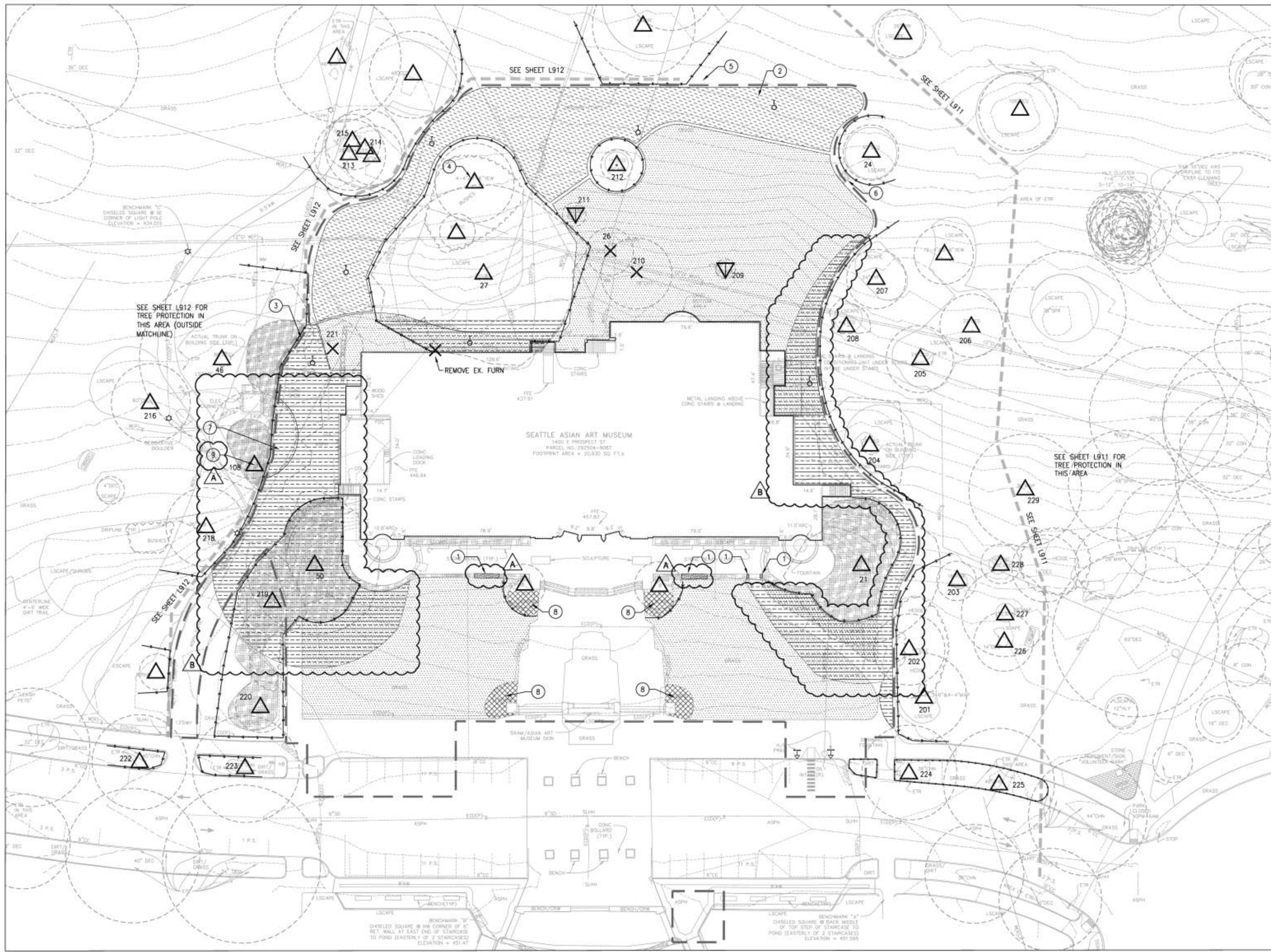


NTS
Concrete Extruded Curb 19



NTS
Curb Opening Detail 20



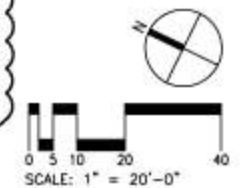


LEGEND

- STRIP LAWN
- PROTECT EXISTING PLANTING
- REMOVE EXISTING PLANTING
- REMOVE AND TRANSPLANT SHRUBS. SEE KEY NOTE 1
- ALL WORK WITHIN THIS AREA SHALL BE DONE WITH PROJECT ARBORIST AND SPR URBAN FORESTER PRESENT
- APPROXIMATE CONTRACTOR LAYDOWN AND STAGING AREA, SEE KEY NOTE 2 AND 5
- TREE PROTECTION FENCE
- PROTECT EXISTING TREE
- RELOCATE EXISTING TREE TO LOCATION OUTSIDE PROTECT AREA, SEE SPECS
- REMOVE EXISTING TREE / SHRUB / FURN (TREE DRIPLINE)
- EXISTING TREE
- SOIL TEST LOCATION, SEE SPECS
- APPROXIMATE LIMIT OF CONSTRUCTION
- 222 TREE ID, PER 'TABLE OF TREES', AVAILABLE UPON REQUEST.

- ### GENERAL NOTES
- CONTRACTOR TO NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN THE PLANS AND THE EXISTING CONDITIONS BEFORE STARTING WORK.
 - ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE TEMPORARY TREE AND PLANT PROTECTION SPECIFICATIONS FOR THE PROJECT.
 - SEE CIVIL DRAWINGS FOR SITE DEMOLITION.
 - PROTECT ALL EXISTING PLANTING AREAS UNLESS NOTED OTHERWISE.
 - CONTRACTOR SHALL LOCATE AND TEST ALL EXISTING IRRIGATION HEADS, VALVES, AND ASSOCIATED APPURTENANCES WITH SPR PLUMBER PRIOR TO CONSTRUCTION.
 - IRRIGATION IN THE PARK SHALL NOT BE INTERRUPTED DURING CONSTRUCTION. PROVIDE TEMPORARY IRRIGATION OR HAND WATERING AS REQUIRED.
 - COORDINATE SHUTOFF OF IRRIGATION WITH SEATTLE DEPARTMENT OF PARKS AND RECREATION.
 - CONSULT THE PROJECT ARBORIST AND SPR URBAN FORESTER FOR APPROVAL PRIOR TO DOING ANY WORK WITHIN DESIGNATED TREE PROTECTION AREAS.
 - SEE SHEETS L911 AND L912 FOR ADDITIONAL TREE PROTECTION.

- ### KEY NOTES
- REMOVE SHRUBS ONLY AS NECESSARY FOR REMOVAL OF EXISTING PATH OR CONSTRUCTION OF NEW PATH. VERIFY IN FIELD. LANDSCAPE ARCHITECT TO SELECT (20) FOR TRANSPLANTING.
 - STRIP LAWN IN LAYDOWN AND STAGING AREA
 - PRUNE RHODODENDRON TO ALLOW FOR CONSTRUCTION ACCESS ROAD, PER DIRECTION OF LANDSCAPE ARCHITECT.
 - PRUNE YEW TO ALLOW 12' TO 15' WIDE CLEARANCE FOR CONSTRUCTION ACCESS.
 - CONTRACTOR SHALL MAINTAIN TREE PROTECTION FENCING WITHIN STAGING AREA AND SHALL IMPLEMENT AND MAINTAIN TREE PROTECTION MEASURES AS RECOMMENDED BY ARBORIST AND SPR URBAN FORESTER
 - EXISTING CONCRETE PEDESTAL TO REMAIN.
 - MARKER POLE/BARRIER BOLTED TO ASPHALT TO KEEP TALLER TRUCKS FROM TREE BRANCH. CONTRACTOR TO PROVIDE SKETCH OF POLE TO LANDSCAPE ARCHITECT.
 - REMOVE ANNUAL PLANTS ONLY.
 - TREE #108 HAS EXPERIENCED MULTIPLE IMPACTS TO ITS LARGE SCAFFOLD BRANCH EXTENDING SOUTH TOWARD THE MUSEUM. CONTRACTOR SHALL PRUNE THE SOUTHERLY LIMB ONLY PER THE DIRECTION OF TREE SOLUTIONS INC. CONTACT HOLLY LOSSO (206-528-4670) TO COORDINATE PRUNING, ONE WEEK PRIOR TO COMMENCEMENT OF WORK.



WALKER MACY



Asian Art Museum Expansion & Renovation
 Volunteer Park / 1400 E Prospect
 Seattle, WA 98112

Revisions	Submitted
A 9/1/2017 Permit Corrections I	
B 9/1/2017 Permit Corrections I	

Drawn: MH/AMS
 Checked: CJ/MMS
 LMN Proj No: 16028.01
 Date: 9/1/2017

Tree and Plant Protection Plan

L101

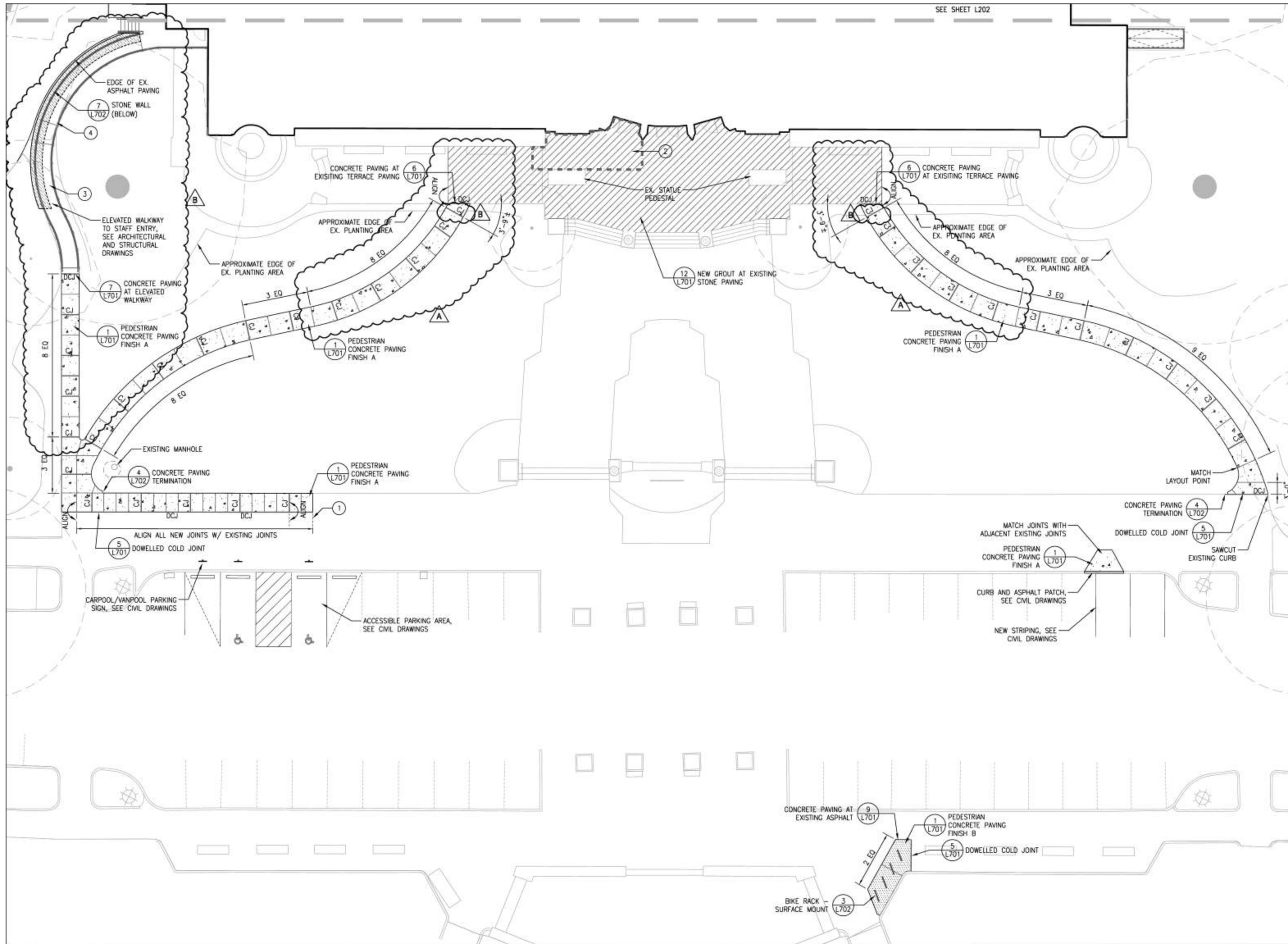
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 www.lmnarchitects.com

1316 3RD AVENUE, SUITE 1310
 SEATTLE, WA 98101
 206 462 3874

CHRISTOPHER S. JONES
 SUBCONTRACT NO. 1371

Construction Documents

Sheet Title: Tree and Plant Protection Plan
 Sheet Number: L101

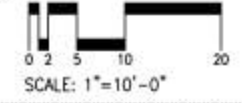


LEGEND

- PEDESTRIAN CONCRETE PAVING: FINISH A
- PEDESTRIAN CONCRETE PAVING: FINISH B
- REGROUT PAVING JOINTS IN THIS AREA, SEE DETAIL 12/L701
- STONE WALL
- (DRIP LINE)
- EXISTING TREE
- IJ ISOLATION JOINT, SEE DETAIL 4/L701. PROVIDE WHERE PAVING MEETS VERTICAL ELEMENT.
- DCJ DOWELLED COLD JOINT, SEE DETAIL 5/L701
- CJ CONTRACTION JOINT, SEE DETAIL 2/L701
- SJ SCORE JOINT, SEE DETAIL 3/L701
- EQ EQUAL

- ### GENERAL NOTES
1. CONTRACTOR TO NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN THE PLANS AND THE EXISTING CONDITIONS BEFORE STARTING WORK.
 2. EXISTING TRASH RECEPTACLES AT NEW BIKE RACK AREA TO BE RELOCATED BY SEATTLE PARKS AND RECREATION. CONTACT SPR PROJECT MANAGER TO COORDINATE (206-684-0586).
- ### KEY NOTES
1. JOINT LOCATIONS IN EXISTING PAVING ARE APPROXIMATE AND FOR REFERENCE ONLY. VERIFY IN FIELD. NOTIFY LANDSCAPE ARCHITECT IF EXISTING CONDITIONS DON'T REFLECT DESIGN INTENT.
 2.
 - CONTRACTOR TO REMOVE, REINSTALL, OR REPLACE (ONLY IF REMOVAL IS NOT POSSIBLE) STONE PAVING TO PROVIDE ADA ACCESSIBILITY (2% MAX. SLOPE), AND / OR GRIND AS NECESSARY TO ACHIEVE ADA ACCESSIBILITY. CONTRACTOR TO SUBMIT PLAN FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO CONSTRUCTION.
 - CONTRACTOR PERFORMING THIS WORK SHALL CONDUCT A PRE-CONSTRUCTION CONFERENCE PRIOR TO SURVEYING AND DISMANTLING BLUESTONE PAVERS.
 - CONTRACTOR SHALL PERFORM A SURVEY OF THE AREA DASHED ON THE PLAN, NOTING SPOT ELEVATION ON A 2' GRID.
 - CAREFULLY HANDLE, CATALOG AND PACKAGE ALL SALVAGED FEATURES IN AN APPROVED MANNER AND AS DEEMED APPROPRIATE TO PREVENT DAMAGE, DETERIORATION, LOSS OR OTHER ADVERSE EFFECTS.
 - CONTRACTOR TO IDENTIFY PAVERS THAT REQUIRE RESETTling TO MAKE AN ACCESSIBLE ROUTE TO THE FRONT DOOR OF THE MUSEUM (IE IMPACTED AREA).
 - CONTRACTOR SHALL SUBMIT A PAVING PLAN OF THE IMPACTED AREA, TO SCALE. THE PAVING PLAN SHALL ASSOCIATE A NUMBER WITH EACH PAVER, ITS ORIENTATION TO NORTH, AND ADJACENCY TO PAVERS AND/OR PLANTING AREAS. EACH PAVER SHALL BE NOTED ON THE UNDERSIDE, WITH CHALK, OF ITS CORRESPONDING PLAN # AND ORIENTATION TO NORTH.
 - CONTRACTOR SHALL DISMANTLE EACH PAVER, WITHIN IMPACTED AREA AS AGREED UPON BY LANDSCAPE ARCHITECT, BEGINNING FROM THE EASTERN EDGE OF THE PAVING WHICH ABUTS THE PLANTING AREA AND WHERE THE MORTAR SETTING BED IS ACCESSIBLE. CONTRACTOR SHALL EMPLOY USE OF A TENSION GAUGE IN ORDER TO REMOVE PAVERS WITHOUT INCURRING CRACKING. IF REMOVAL WITHOUT CRACKING IS UNAVOIDABLE NOTIFY LANDSCAPE ARCHITECT BEFORE PROCEEDING. SELECT REMOVAL OF THESE PAVERS SHALL BE COMPLETED IN A MANNER THAT MAINTAINS THE EXISTING PAVERS IN THEIR CURRENT CONFIGURATION WITH THE SAME JOINTING PATTERN. DISMANTLE DEFINITION: TO DISASSEMBLE AND DETACH ITEMS FROM EXISTING CONSTRUCTION USING APPROVED TOOLS AND EQUIPMENT SO AS TO PROTECT HISTORIC FABRIC AND FINISHES IN A CONDITION TO BE REINSTALLED AND REFINISHED.
 - CONTRACTOR SHALL TRANSPORT SALVAGED FEATURES WITH CARE AND STORE IN A PROTECTED AREA UNTIL SUCH FEATURES ARE READY FOR RETURN TO THE SITE FOR INSTALLATION.
 - CONTRACTOR SHALL DOCUMENT THE IMPACTED AREA AND EACH JOINT AND PAVER BY PHOTOGRAPHS PRIOR TO DISMANTLING. PHOTOS SHALL CORRESPOND WITH PAVER PLAN.
 - CONTRACTOR SHALL PROTECT ALL FINISHES FROM DAMAGE.
 - USE ONLY HAND-HELD TOOLS UNLESS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE.
 - TENSION GAUGE SHALL BE USED IN ALL INSTANCES TO REMOVE PAVERS WITHOUT CRACKING.
 - PRY BARS MORE THAN 18 INCHES LONG AND HAMMERS WEIGHING MORE THAN 2LB ARE NOT PERMITTED FOR DISMANTLING WORK. DO NOT USE PRY BARS WITHIN 6 INCHES OF A HISTORIC BUILDING, STATUARY, OR RAILING.
 - DO NOT USE PNEUMATIC, ROTO HAMMER OR PERCUSSION TOOLS WITHOUT THE PERMISSION OF THE OWNER'S REPRESENTATIVE.

3. FINISH OF ELEVATED WALK TO MATCH PEDESTRIAN CONCRETE PAVING: FINISH A.
4. CONTRACTOR TO PRUNE TREES AS NECESSARY FOR HEAD CLEARANCE. COORDINATE WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.



WALKER MACY



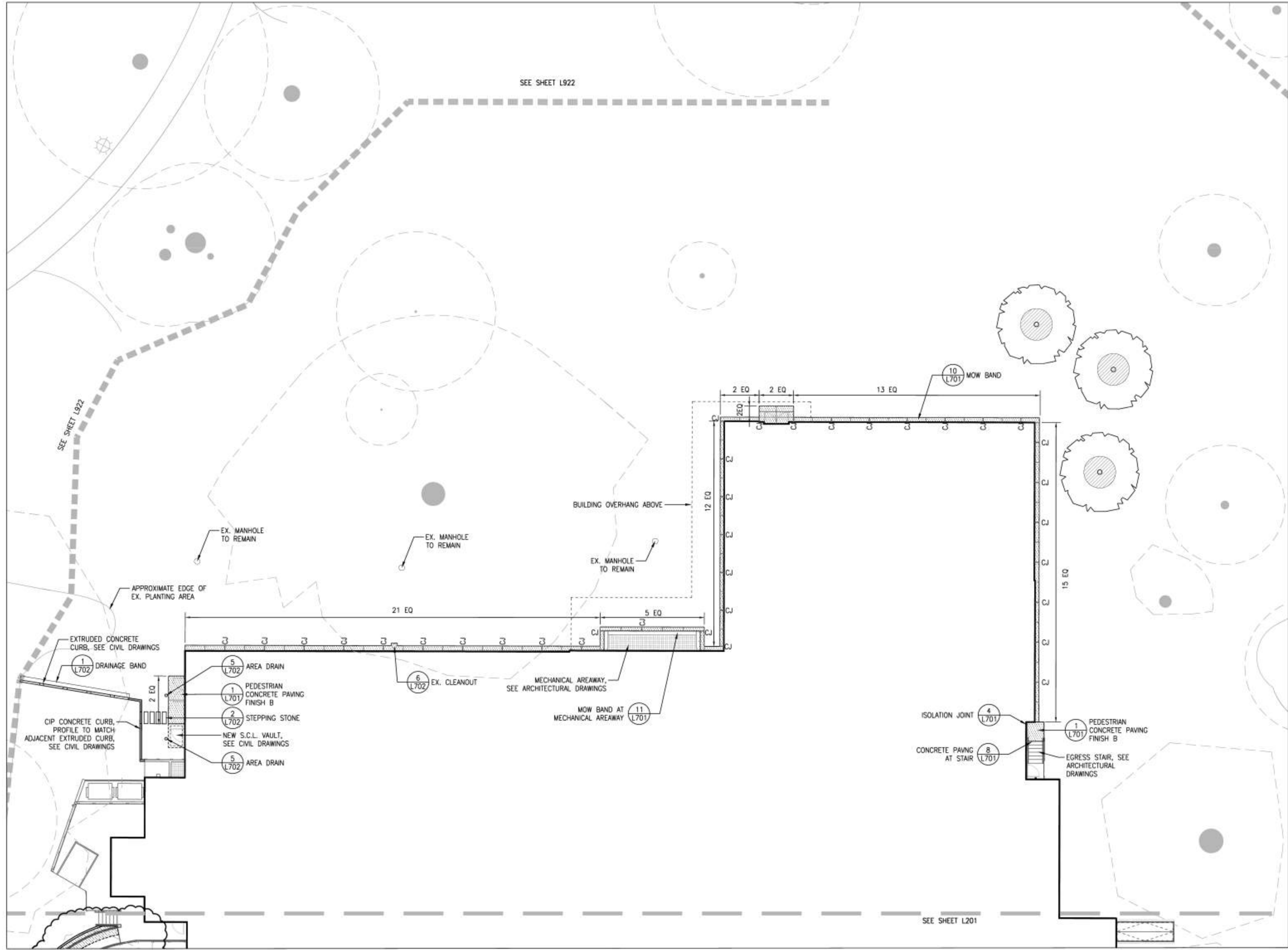
Asian Art Museum Expansion & Renovation
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Revisions
A 9/1/2017 Permit Corrections I
B 9/1/2017 Permit Corrections I

Drawn: MH / AMS
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Materials Plan
 West

L201



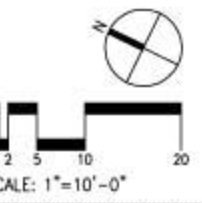
LEGEND

- PEDESTRIAN CONCRETE PAVING: FINISH B
- (DRIP LINE) EXISTING TREE
- (MULCH RING) NEW TREE
- ISOLATION JOINT, SEE DETAIL 4/L701. PROVIDE WHERE PAVING MEETS VERTICAL ELEMENT.
- DOWELLED COLD JOINT, SEE DETAIL 5/L701
- CONTRACTION JOINT, SEE DETAIL 2/L701
- SCORE JOINT, SEE DETAIL 3/L701
- EQUAL

GENERAL NOTES

1. CONTRACTOR TO NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN THE PLANS AND THE EXISTING CONDITIONS BEFORE STARTING WORK.
2. EXISTING TRASH RECEPTACLES AT NEW BIKE RACK AREA TO BE RELOCATED BY SEATTLE PARKS AND RECREATION. CONTACT SPR PROJECT MANAGER TO COORDINATE (206-684-0586).

KEY NOTES



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Revisions

- A 9/1/2017 Permit Corrections I
- B 9/1/2017 Permit Corrections I

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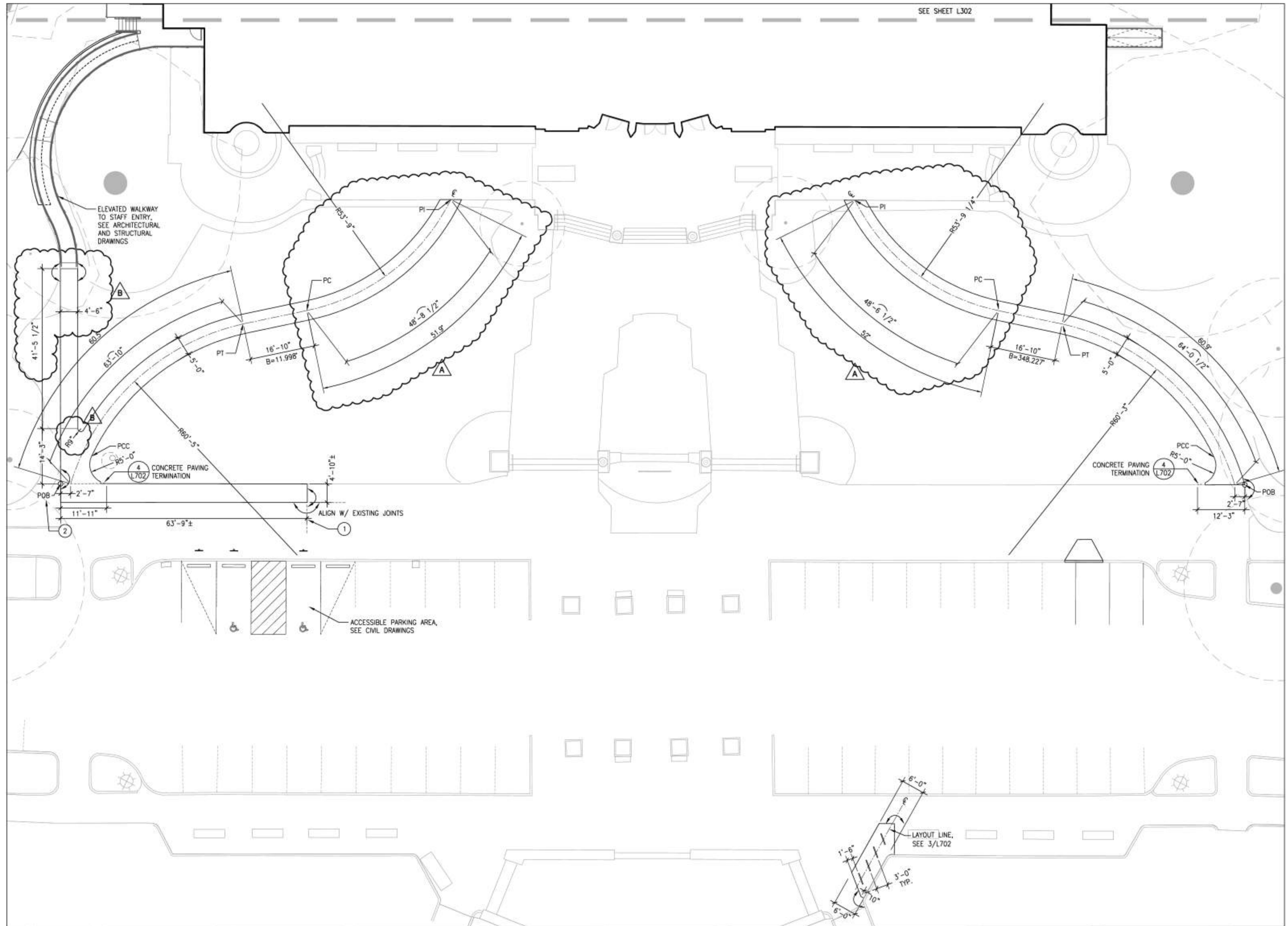
1316 3RD AVENUE, SUITE 1310
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Construction Documents

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Materials Plan
East

L202

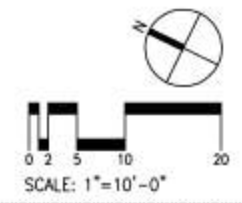


LEGEND

---	BASILINE
—+—	CENTERLINE
---	EXTENSION OF BUILDING FACE
B	BEARING
C	CHORD LENGTH
EQ	EQUAL
L	LENGTH OF CURVE
LC	LENGTH OF CURVE ON CENTER
POB	POINT OF BEGINNING
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
R	RADIUS
RP	RADIUS CENTER POINT
SP	SPACES
VF	VERIFY IN FIELD
—	ALIGN

- LAYOUT NOTES**
1. SITE SURVEY WAS PREPARED BY BUSH, ROED & HITCHINGS, INC. ON 2/13/2017. ALL COORDINATES SHOWN ON THE DRAWINGS ARE BASED UPON THE COORDINATE SYSTEM ESTABLISHED BY THE SURVEYOR. WALKER MACY ASSUMES NO RESPONSIBILITY FOR ACCURACY OF SURVEYED CONDITIONS AS SHOWN. SURVEY INFORMATION IS PROVIDED FOR REFERENCE ONLY.
 2. DO NOT SCALE FROM THE DRAWINGS. THE LOCATION OF FEATURES NOT SPECIFICALLY DIMENSIONED MAY NOT BE DETERMINED BY SCALE. IF CONFLICTS ARISE IN THE FIELD, CONTACT OWNER'S REPRESENTATIVE FOR RESOLUTION.
 3. ALL DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDINGS AND WALLS OR BACK OF CURBS, UNLESS OTHERWISE NOTED.
 4. ALL CURVED OBJECTS SHALL HAVE SMOOTH, CONTINUOUS CURVES WITH CONSISTENT RADIUS AS INDICATED. EACH CURVE SHALL MEET ADJACENT CURVES OR LINEAR SECTIONS ON THE TANGENT, UNLESS NOTED OTHERWISE.
 5. MOW BAND TO BE PARALLEL TO BUILDING WALL.

- KEY NOTES**
1. JOINT LOCATIONS IN EXISTING PAVING ARE APPROXIMATE AND FOR REFERENCE ONLY. VERIFY IN FIELD.
 2. MATCH END POINT OF EXISTING JOINT LINE.



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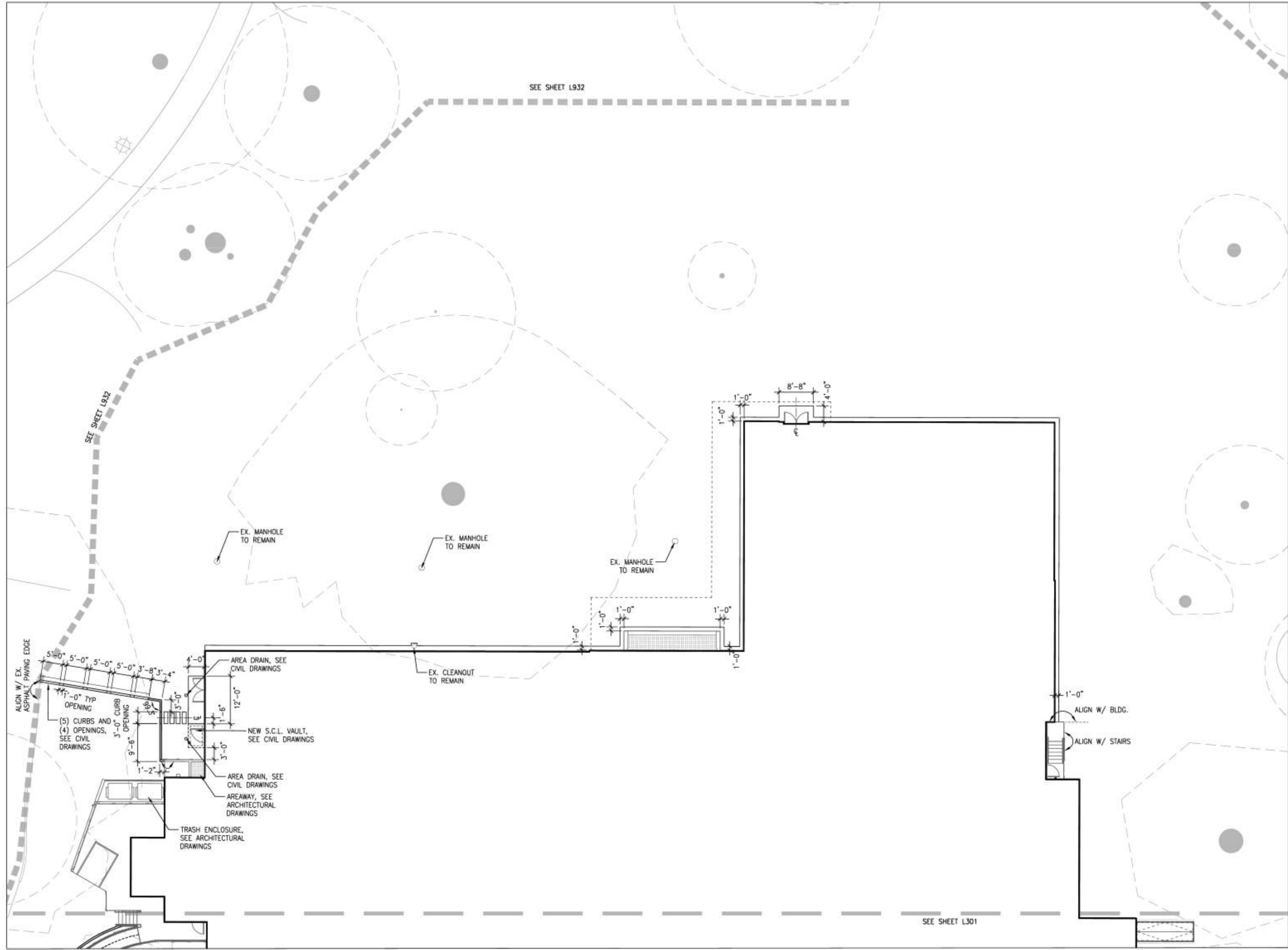
Revisions

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Layout Plan
West

L301



LEGEND

---	BASILINE
---	CENTERLINE
---	EXTENSION OF BUILDING FACE
B	BEARING
C	CHORD LENGTH
EQ	EQUAL
L	LENGTH OF CURVE
ON	ON CENTER
POB	POINT OF BEGINNING
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
R	RADIUS
RP	RADIUS CENTER POINT
SP	SPACES
WF	VERIFY IN FIELD
⤴	ALIGN

- LAYOUT NOTES**
1. SITE SURVEY WAS PREPARED BY BUSH, ROED & HITCHINGS, INC. ON 2/13/2017. ALL COORDINATES SHOWN ON THE DRAWINGS ARE BASED UPON THE COORDINATE SYSTEM ESTABLISHED BY THE SURVEYOR. WALKER MACY ASSUMES NO RESPONSIBILITY FOR ACCURACY OF SURVEYED CONDITIONS AS SHOWN. SURVEY INFORMATION IS PROVIDED FOR REFERENCE ONLY.
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 3. ALL DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDINGS AND WALLS OR BACK OF CURBS, UNLESS OTHERWISE NOTED.
 4. ALL CURVED OBJECTS SHALL HAVE SMOOTH, CONTINUOUS CURVES WITH CONSISTENT RADI AS INDICATED. EACH CURVE SHALL MEET ADJACENT CURVES OR LINEAR SECTIONS ON THE TANGENT, UNLESS NOTED OTHERWISE.
 5. MOW BAND TO BE PARALLEL TO BUILDING WALL.

- KEY NOTES**
1. JOINT LOCATIONS IN EXISTING PAVING ARE APPROXIMATE AND FOR REFERENCE ONLY. VERIFY IN FIELD.
 2. MATCH END POINT OF EXISTING JOINT LINE.

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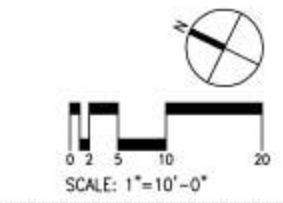
Revisions

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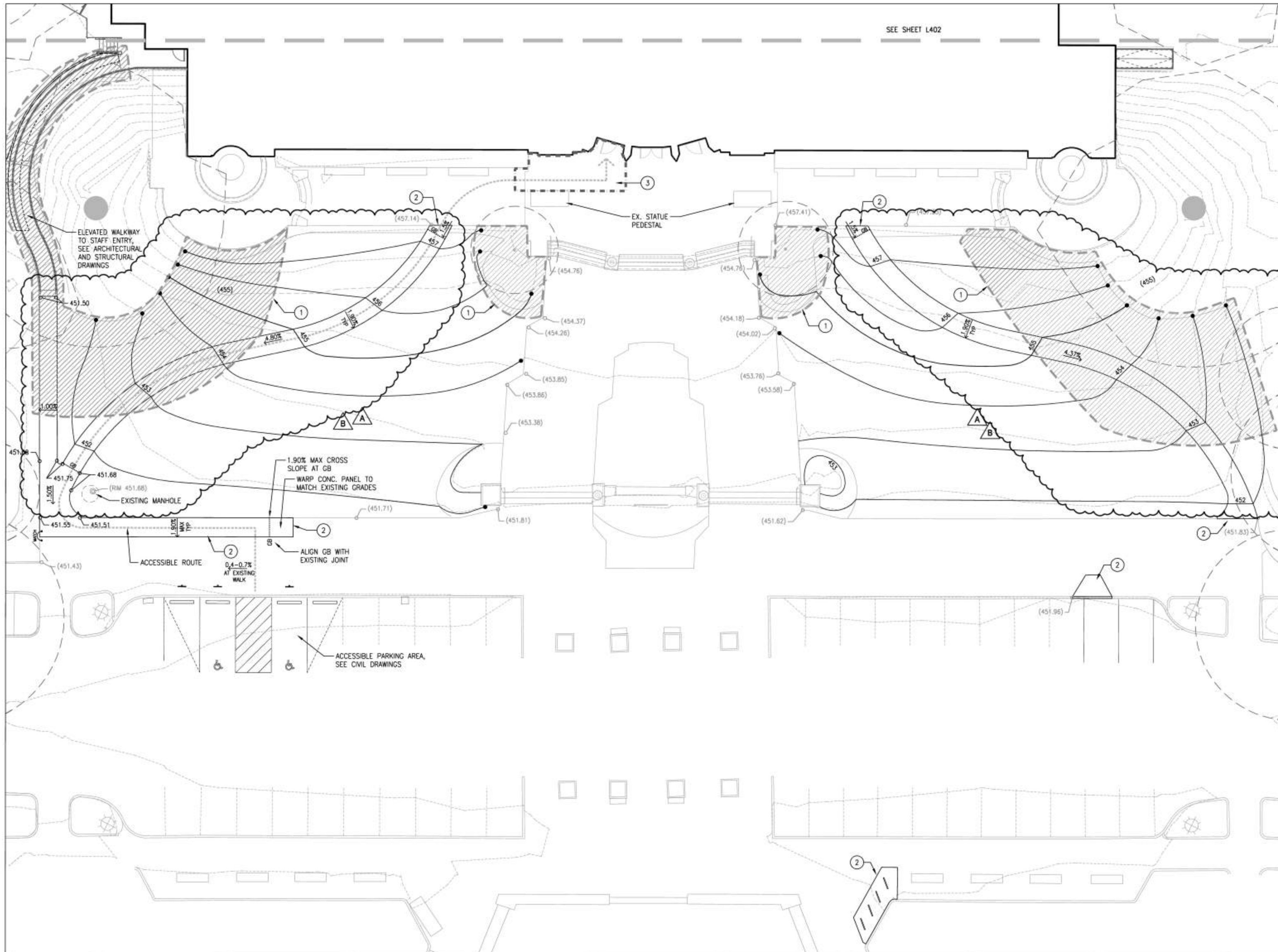
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Date: 9/1/2017

Sheet Title

Layout Plan
East



L302



LEGEND

- (DRIP LINE)
- EXISTING TREE
- PROPOSED CONTOUR
- EXISTING CONTOUR
- PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- MATCH EXISTING ELEVATION
- DIRECTION AND PERCENTAGE OF SLOPE
- GRADE BREAK
- FLOWLINE
- AREA DRAIN
- EACH
- FLUSH CURB
- FINISH FLOOR ELEVATION
- FINISH GRADE
- BOTTOM OF CURB
- TOP OF CURB
- BOTTOM OF STEP
- TOP OF STEP
- BOTTOM OF WALL (AT FG OF PAVING)
- TOP OF WALL
- RIM ELEVATION
- VERIFY IN FIELD
- TREE PROTECTION AREA WITHIN GRADING LIMITS, SEE GRADING NOTE 15.
- ACCESSIBLE ROUTE SHALL BE 2% MAX CROSS SLOPE ON FINISHED SURFACES

- ### GRADING NOTES
1. VERIFY ACCURACY OF EXISTING GRADES AND INTERPOLATED ELEVATIONS PRIOR TO BEGINNING WORK. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCY PRIOR TO BEGINNING WORK.
 2. PROTECT ALL TREES INDICATED TO REMAIN.
 3. ALL PROPOSED GRADES ARE TO MEET AND BLEND IN WITH EXISTING GRADING AT PROJECT LIMIT, PROPERTY LINES, BUILDING LINES AND EXISTING CURBS.
 4. 'ROUND OFF' ALL SHARP RIDGES EXISTING ON SITE WHETHER OR NOT SUCH CONDITIONS ARE INDICATED ON PLANS.
 5. NOTIFY THE OWNER'S REPRESENTATIVE TO REVIEW ROUGH GRADES PRIOR TO PLACEMENT OF TOPSOIL; AND FINE GRADING PRIOR TO PLANTING.
 6. ALL AREAS SHALL HAVE POSITIVE DRAINAGE TO APPROVED DRAINAGE STRUCTURES OR CONVEYANCES.
 7. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT 0.5% SLOPE, MINIMUM.
 8. ALL WALKWAYS AND PAVED AREAS SHALL HAVE SMOOTH AND CONTINUOUS ELEVATION CHANGES.
 9. SET STRAIGHT GRADES BETWEEN GIVEN ELEVATIONS, UNLESS OTHERWISE INDICATED.
 10. PROVIDE 2% MAX. SLOPE, PERPENDICULAR TO DIRECTION OF TRAVEL, ON ALL PAVED PEDESTRIAN SURFACES, UNLESS NOTED OTHERWISE.
 11. ALL PAVING SHALL MEET LOCAL AND FEDERAL ADA CODES.
 12. GRADE BREAK LINES ARE SHOWN GRAPHICALLY TO ILLUSTRATE DRAINAGE PATTERNS AND ARE NOT TO BE INSTALLED AS ACTUAL JOINT LINES, EXCEPT WHERE THEY COINCIDE WITH PAVING JOINTS.
 13. VERIFY IN FIELD THAT AS-BUILT CONDITIONS MATCH PRECISE ELEVATIONS INDICATED ON PLANS.
 14. SITE SURVEY WAS PREPARED BY BUSH, ROED & HITCHINGS, INC. ON 2/13/2017. ALL GRADES SHOWN ON THE DRAWINGS ARE BASED UPON THE DATUM ESTABLISHED BY THE SURVEYOR. WALKER MACY ASSUMES NO RESPONSIBILITY FOR ACCURACY OF SURVEYED CONDITIONS AS SHOWN. SURVEY INFORMATION IS PROVIDED FOR REFERENCE ONLY, NOT ALL SURVEYED SPOT ELEVATIONS ARE SHOWN.
 15. ALL GRADING WITHIN TREE PROTECTION AREAS SHALL BE BY HAND METHODS ONLY.
 16. WHERE EXISTING PATHS ARE BEING REMOVED AND REDUCED WITH LAWN OR PLANTING, RESTORE GRADE TO MATCH ORIGINAL AND ADJACENT FINISH GRADES.

- ### KEY NOTE
1. CONTRACTOR TO GRADE USING HAND METHODS ONLY WITHIN TREE PROTECTION AREAS.
 2. MATCH GRADES OF ADJACENT PAVING.
 3. SEE SHEET L201 KEY NOTE 2 FOR STONE PAVING.

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CHRISTOPHER S. JONES
SUBSIDIARY NO. 1371

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Asian Art Museum Expansion & Renovation
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Seattle, WA 98112

Submittal

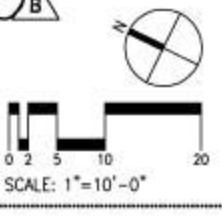
Revisions	
A	9/1/2017 Permit Corrections I
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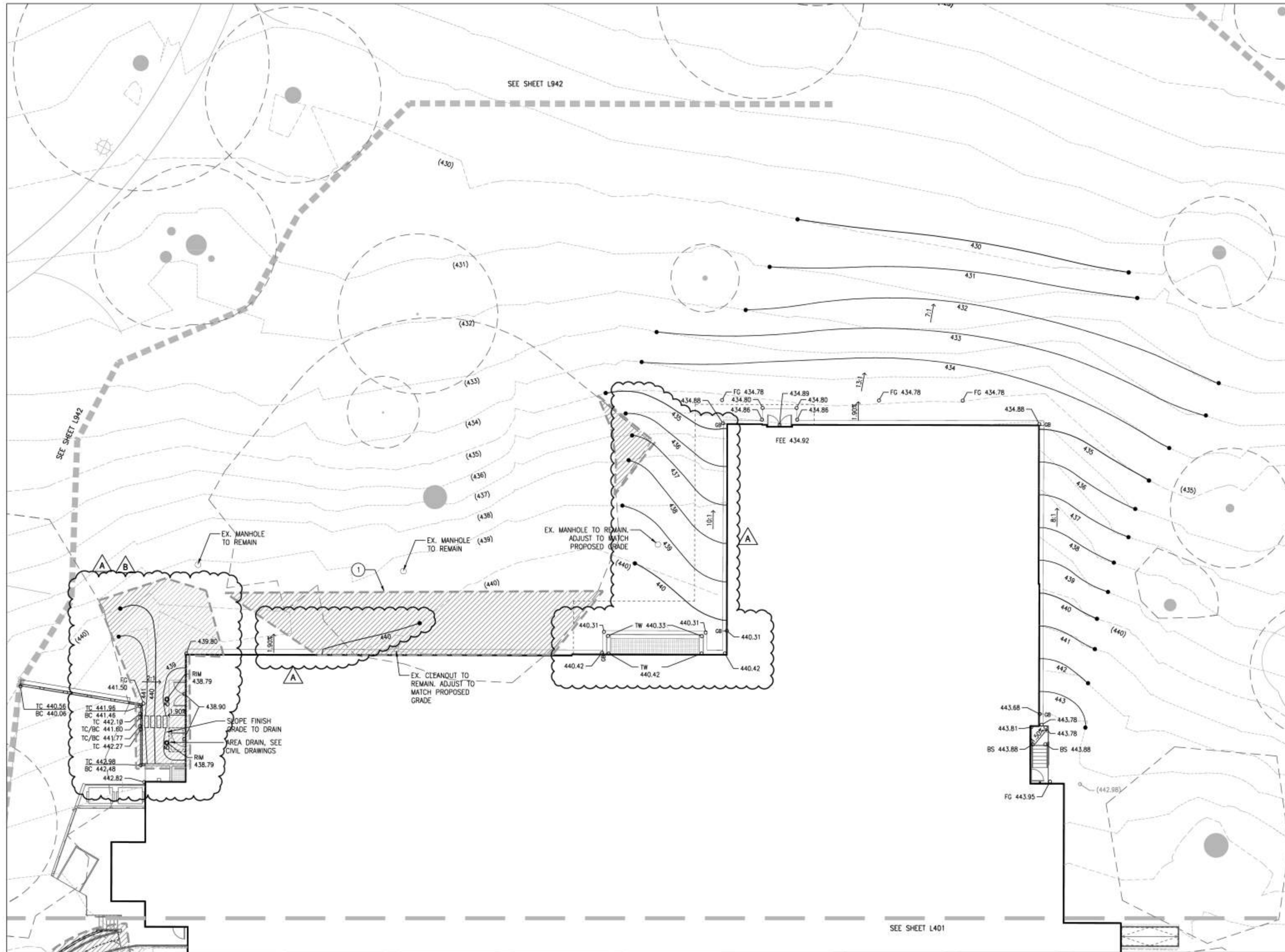
Sheet Title

Grading Plan
West

Sheet Number



L401

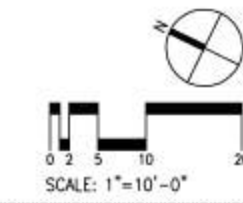


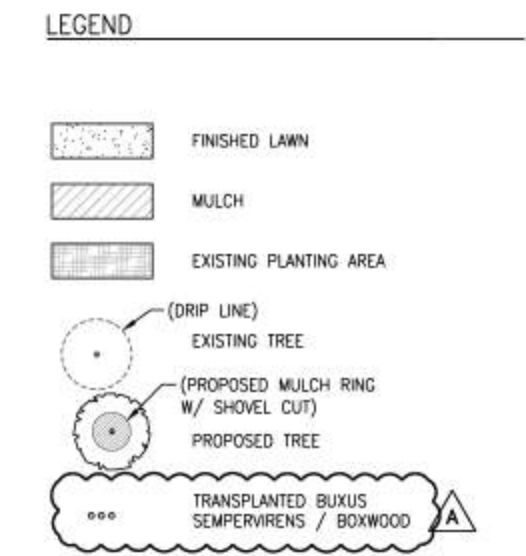
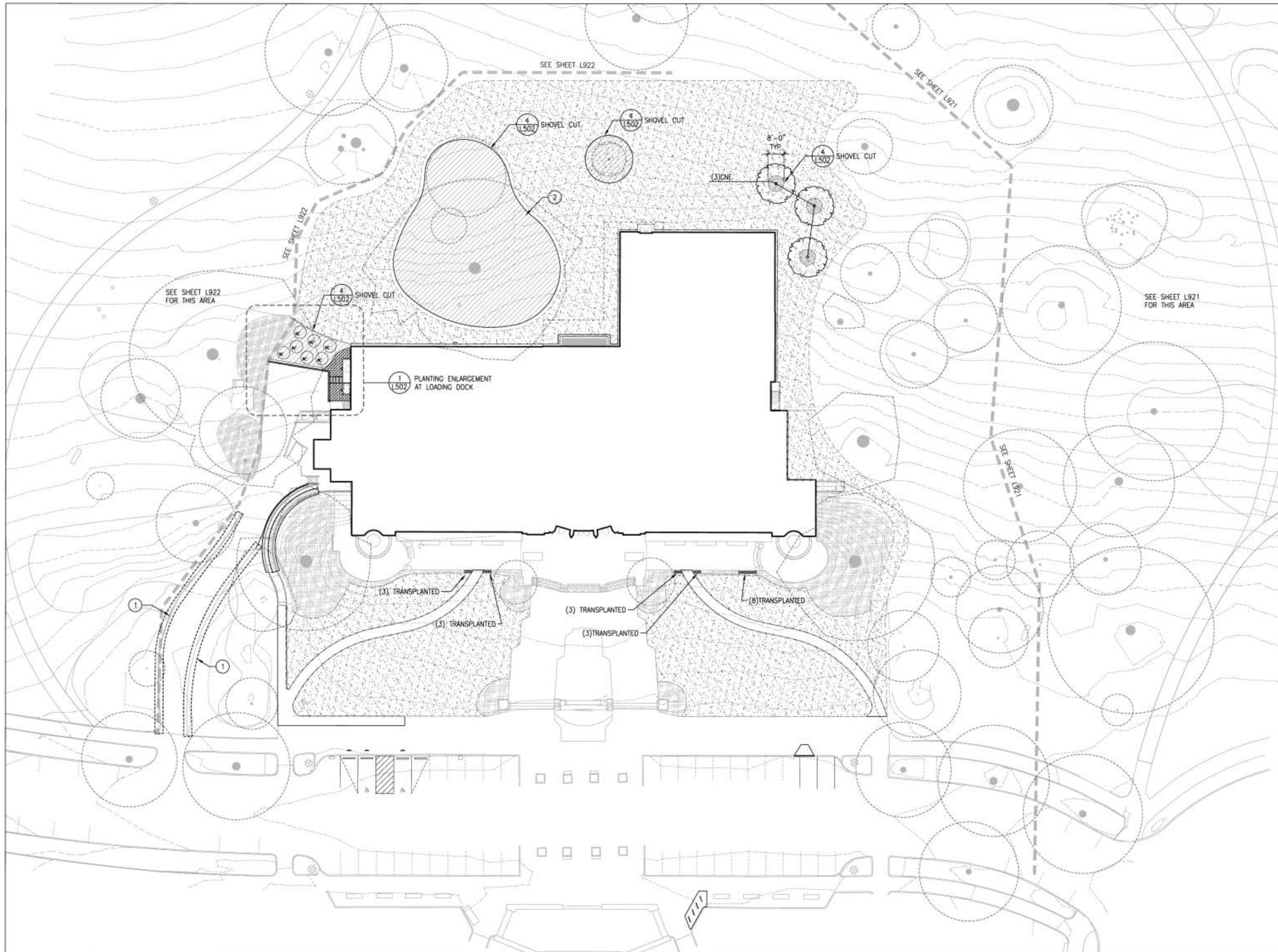
LEGEND

- (D RIP LINE)
- EXISTING TREE
- 434 PROPOSED CONTOUR
- (434) EXISTING CONTOUR
- 434.86 PROPOSED SPOT ELEVATION
- (434.86) EXISTING SPOT ELEVATION
- MATCH DIRECTION AND PERCENTAGE OF SLOPE
- GB GRADE BREAK
- FLOWLINE
- AD AREA DRAIN
- EA EACH
- FC FLUSH CURB
- FFE FINISH FLOOR ELEVATION
- FG FINISH GRADE
- BC BOTTOM OF CURB
- TC TOP OF CURB
- BS BOTTOM OF STEP
- TS TOP OF STEP
- BW BOTTOM OF WALL (AT FG OF PAVING)
- TW TOP OF WALL
- RIM RIM ELEVATION
- VIF VERIFY IN FIELD
- B TREE PROTECTION AREA WITHIN GRADING LIMITS, SEE GRADING NOTE 15.

- GRADING NOTES**
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 2. PROTECT ALL TREES INDICATED TO REMAIN.
 3. ALL PROPOSED GRADES ARE TO MEET AND BLEND IN WITH EXISTING GRADING AT PROJECT LIMIT, PROPERTY LINES, BUILDING LINES AND EXISTING CURBS.
 4. 'ROUND OFF' ALL SHARP RIDGES EXISTING ON SITE WHETHER OR NOT SUCH CONDITIONS ARE INDICATED ON PLANS.
 5. NOTIFY THE OWNER'S REPRESENTATIVE TO REVIEW ROUGH GRADES PRIOR TO PLACEMENT OF TOPSOIL; AND FINE GRADING PRIOR TO PLANTING.
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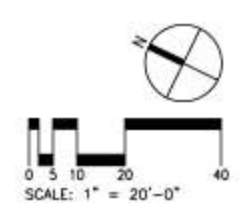
- KEY NOTE**
- 1 CONTRACTOR TO GRADE USING HAND METHODS ONLY WITHIN TREE PROTECTION AREAS.
 - 2 MATCH GRADES OF ADJACENT PAVING.





- ### PLANTING NOTES
1. CONTRACTOR TO VERIFY LOCATION OF EXISTING TREES INDICATED TO REMAIN PRIOR TO SOIL PREPARATION. ~~PROTECT ALL TREES AND SHRUBS INDICATED TO REMAIN (SEE SHEET L101 TREE AND PLANT PROTECTION PLAN)~~ COORDINATE WITH THE OWNER'S REPRESENTATIVE.
 2. PLANTING AREAS TO BE SUFFICIENTLY CLEANED OF ALL CONSTRUCTION MATERIALS, INCLUDING IMPORTED ROCK, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE BEFORE BEGINNING ANY LANDSCAPE WORK.
 3. IDENTIFY ALL PLANTING AREAS IN FIELD WITH WHITE FIELD-MARKING CHALK OR APPROVED EQUAL. PLANTING AREAS TO BE ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLANT LOCATION.
 4. THE OWNER'S REPRESENTATIVE WILL APPROVE INDIVIDUAL PLANT MATERIAL AND LOCATION OF PLANT MATERIAL PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR PROCEDURE.
 5. SHRUBS AND GROUNDCOVER TO BE PLANTED A MINIMUM OF ONE HALF THEIR ON CENTER SPACING AWAY FROM PAVEMENT EDGES; UNLESS OTHERWISE NOTED.
 6. PROVIDE ROOT BARRIER AROUND ALL TREES WITHIN 5' OF PAVING, CURBS, WALLS, BUILDINGS, UTILITY DUCTS AND OTHER APPURTENANCES.
 7. PROVIDE JUTE NETTING ON ALL SLOPES WITH GRADIENT OF 3:1 OR GREATER AS DIRECTED IN THE FIELD BY THE OWNER'S REPRESENTATIVE. STAPLE FABRIC TO GROUND WITH METAL STAKES AT 4' O.C.
 8. PRIOR TO EXECUTION OF PLANTING, THE CONTRACTOR SHALL PROVIDE TEST RESULTS INDICATING SOIL COMPACTION MEETS PRECONSTRUCTION CONDITIONS.
 9. REPAIR ALL HOLES AND LANDSCAPE TO ORIGINAL CONDITION AFTER REMOVAL OF FENCING.

- ### KEY NOTES
1. CONTRACTOR TO PHOTOGRAPH EX. CONDITIONS PRIOR TO CONSTRUCTION AND SHALL RESTORE IF DAMAGED.
 2. MULCH BED TO BE LAID OUT IN FIELD UNDER SUPERVISION OF LANDSCAPE ARCHITECT.



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Revisions	
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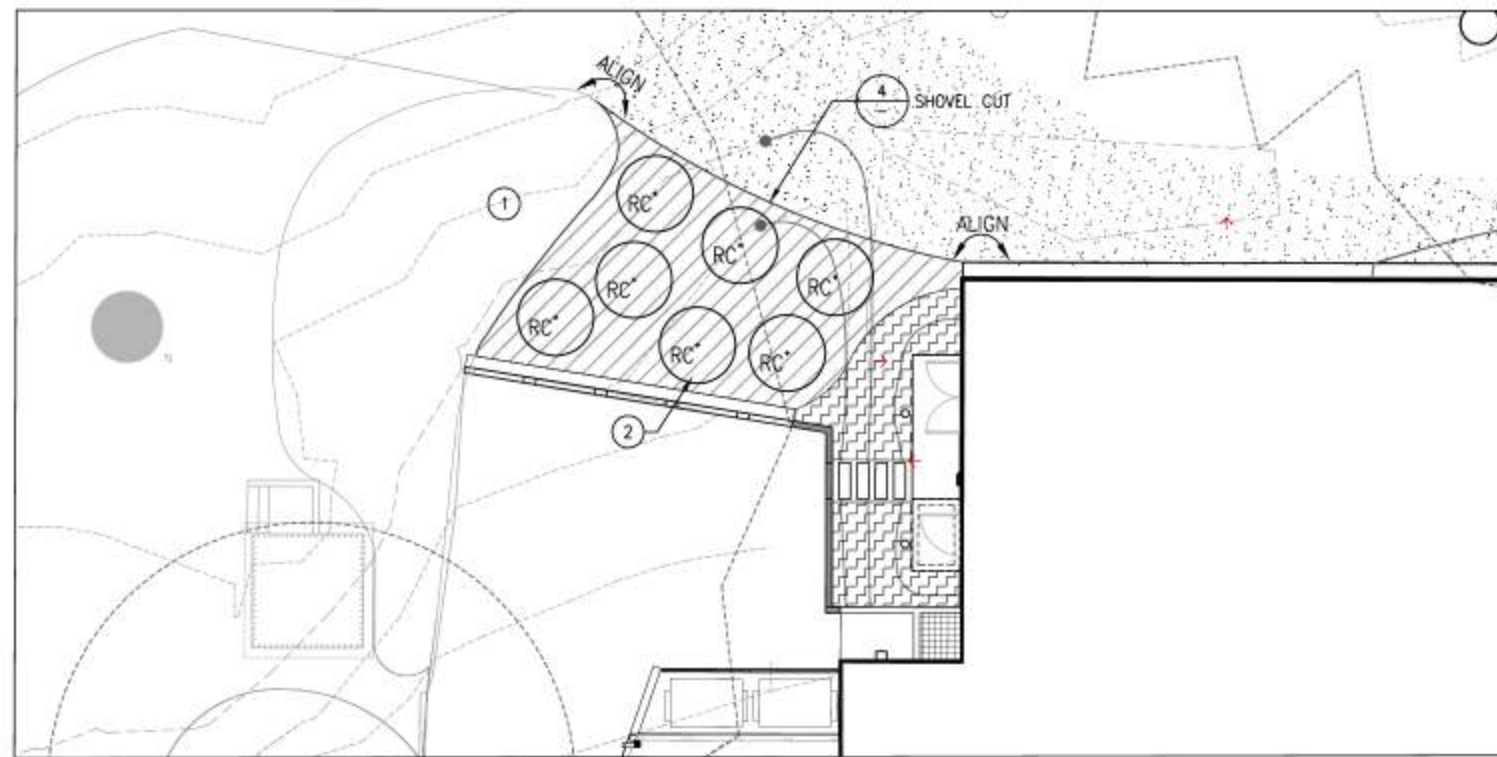
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Construction Documents

Drawn: MH / AMS
Checked: CJ / JMS
LMN Proj No: 16028.01
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Planting Plan

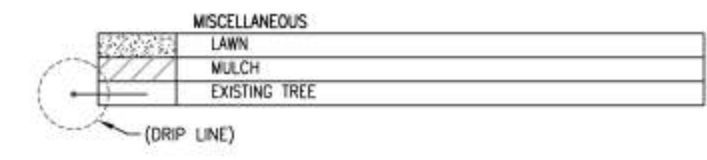
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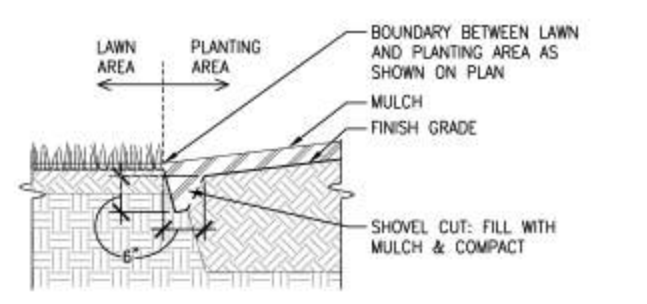
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SCALE: 1/8"=1'-0"

PLANT SCHEDULE

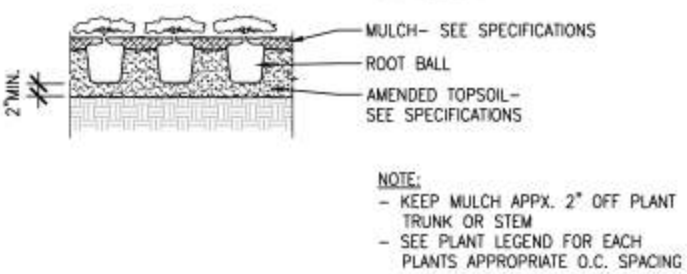
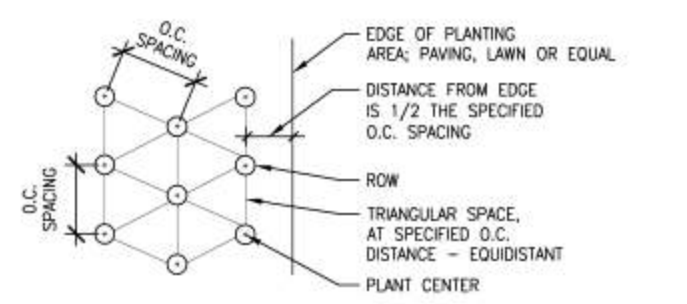
SYMBOL	KEY	BOTANICAL NAME	COMMON NAME	SIZE/CONDITION	SPACING	COMMENTS
*	CNE	CORNUS NUTTALLII x FLORIDA 'EDDIE'S WHITE WONDER'	CORNUS 'EDDIE'S WHITE WONDER'	3" CAL./B&B	AS SHOWN	LANDSCAPE ARCHITECT TO LOCATE IN FIELD
RC	RC	RHODODENDRON CATAWBIENSE 'ALBUM'	CATAWBA RHODODENDRON	5 GAL. CONT.	AS SHOWN	SEE KEY NOTE 2
***	BS	BUXUS SEMPERVIRENS	BOXWOOD	EXISTING	AS SHOWN	TRANSPLANTING
PLM	PLM	PRUNUS LAUROCERASUS 'MOUNT VERNON'	DWARF ENGLISH LAUREL	4" POT	12" O.C.	SEE DETAIL 5, 6



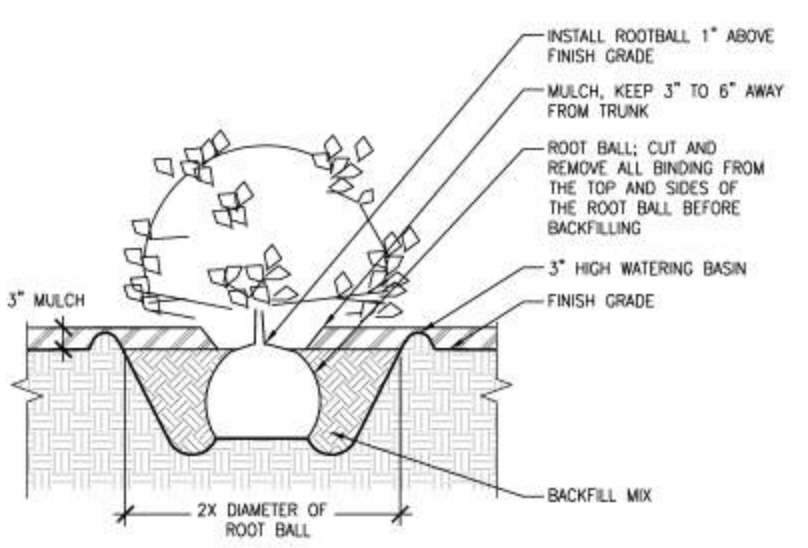
- KEY NOTES**
- EXISTING PLANTING LIMIT SHOWN IS APPROXIMATE. FIELD VERIFY ACCURATE LOCATION.
 - SHRUB LOCATIONS ARE APPROXIMATE. SHRUBS SHALL BE LOCATED BETWEEN TREE ROOTS. VERIFIED IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO PLANTING.



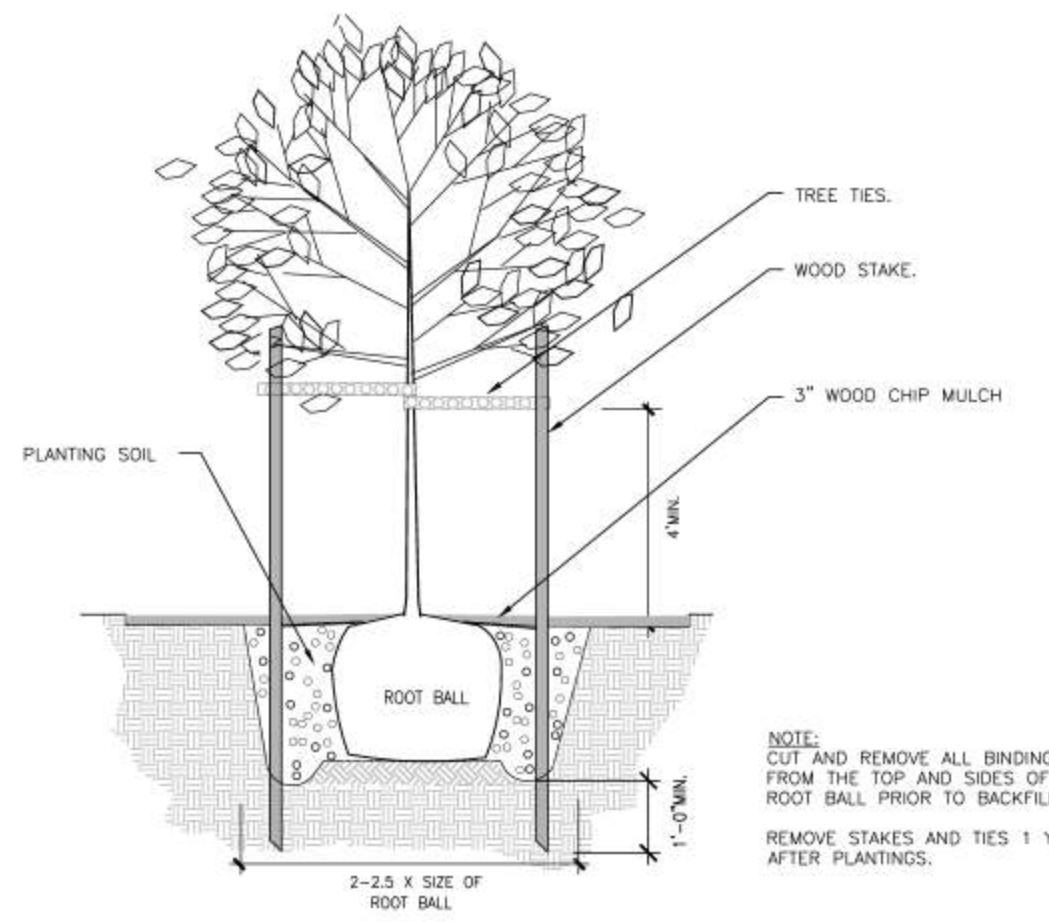
4 SHOVEL CUT
SCALE: 3/4"=1'-0"



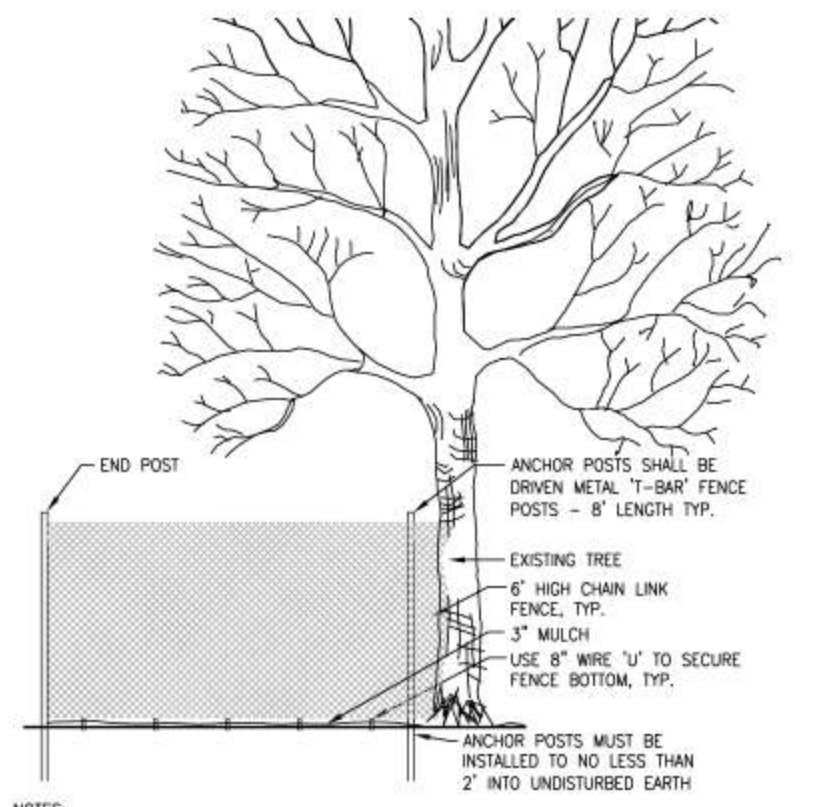
6 PLANT SPACING
SCALE: 3/4"=1'-0"



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

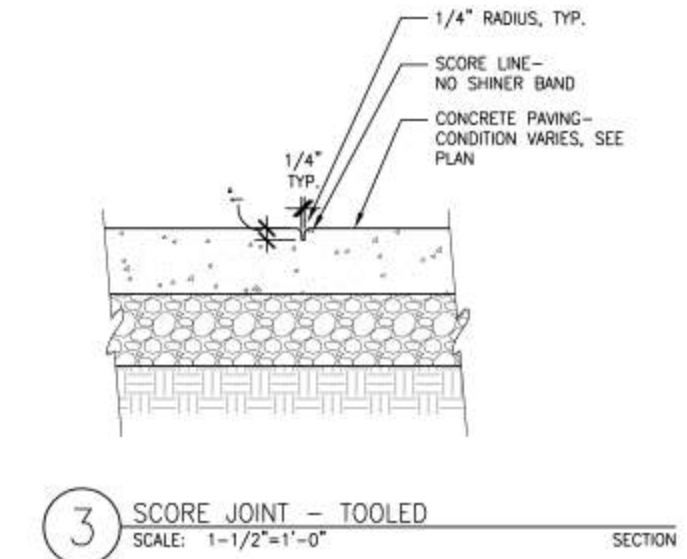
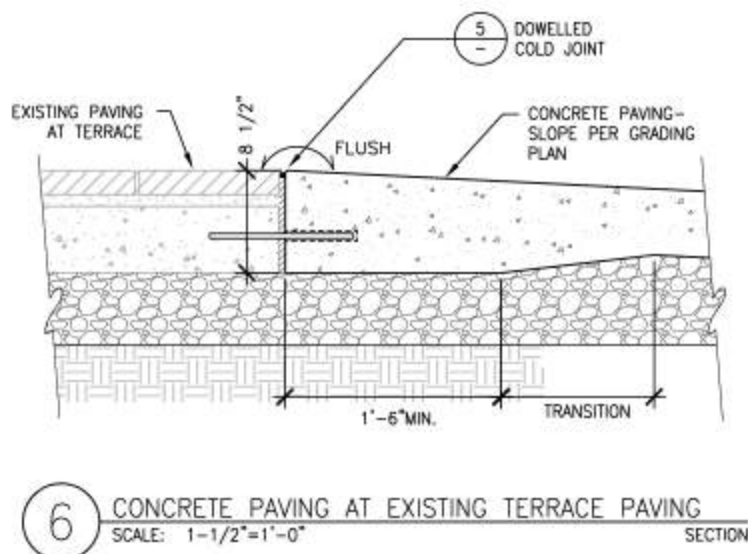
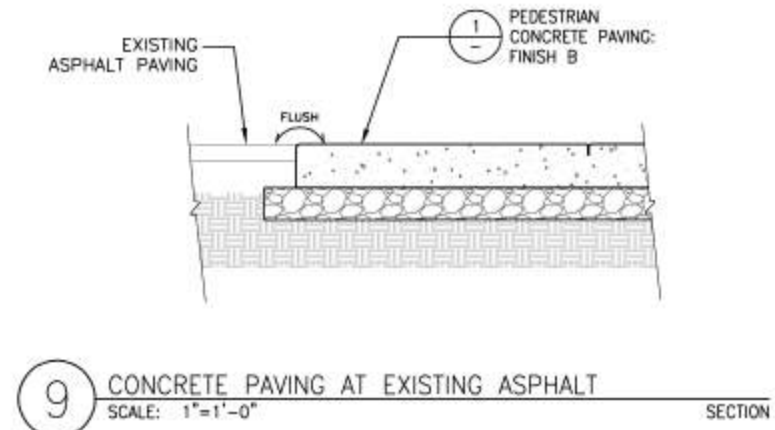
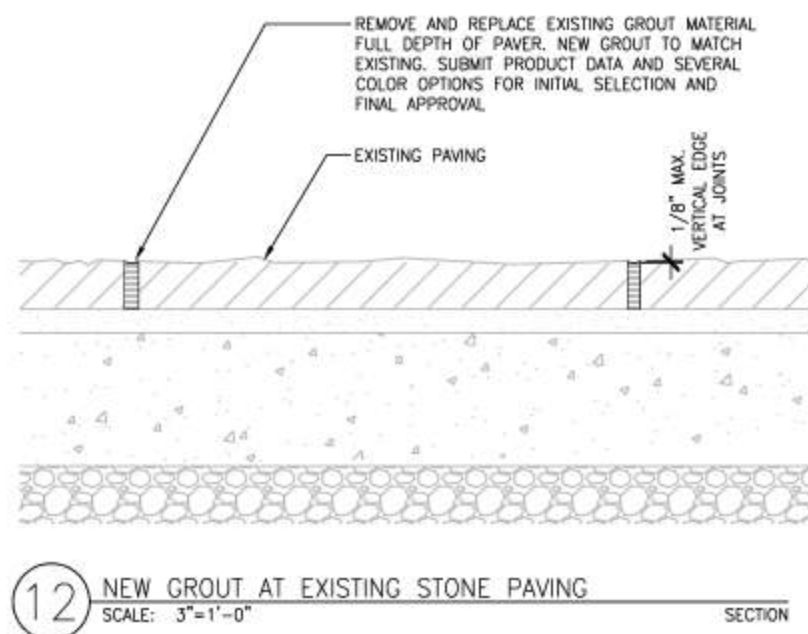
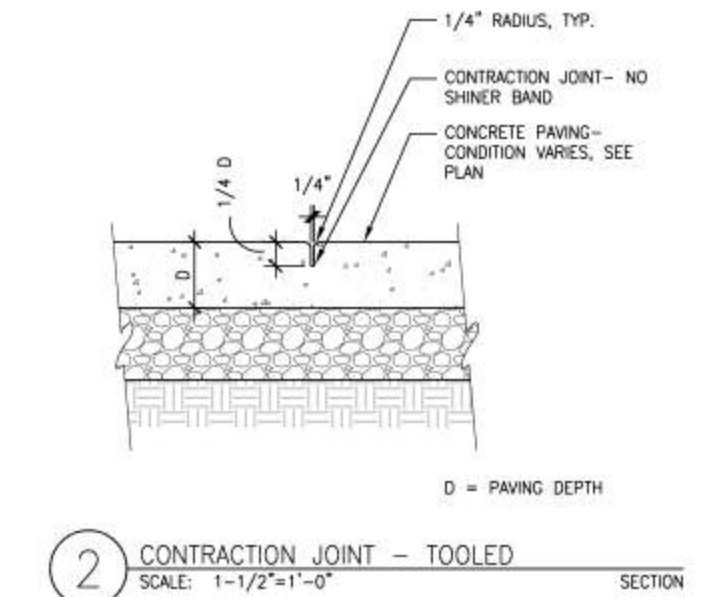
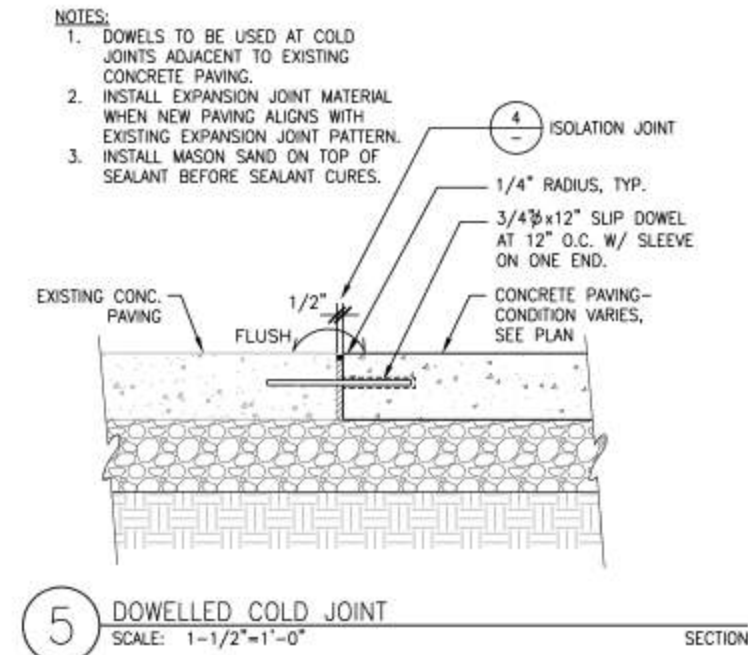
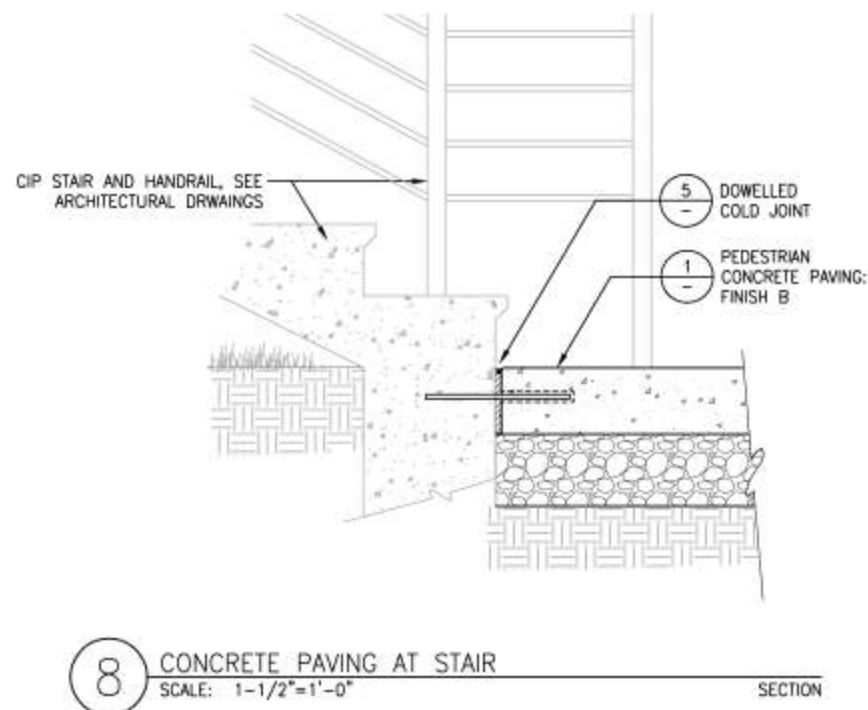
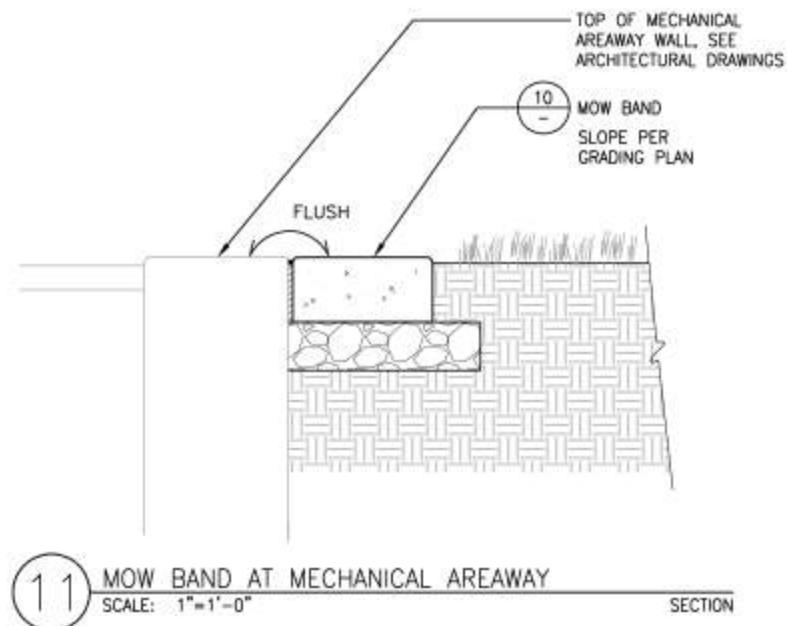
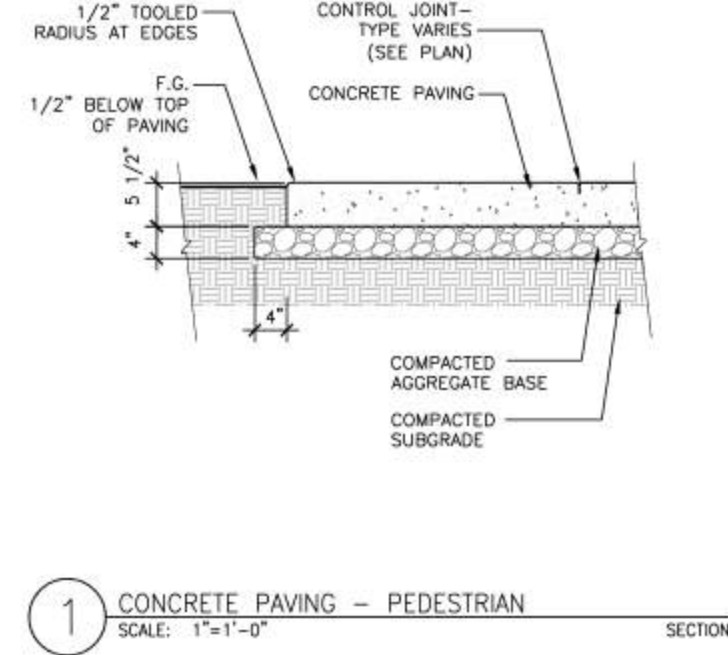
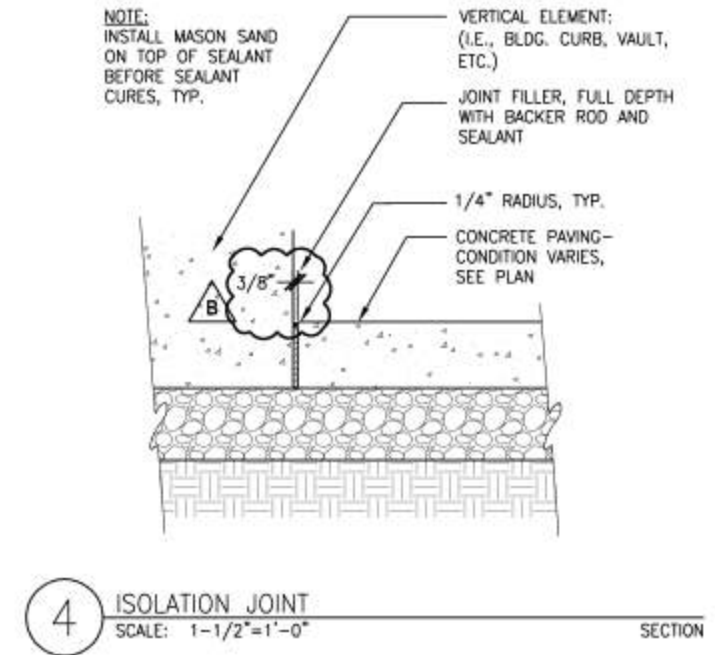
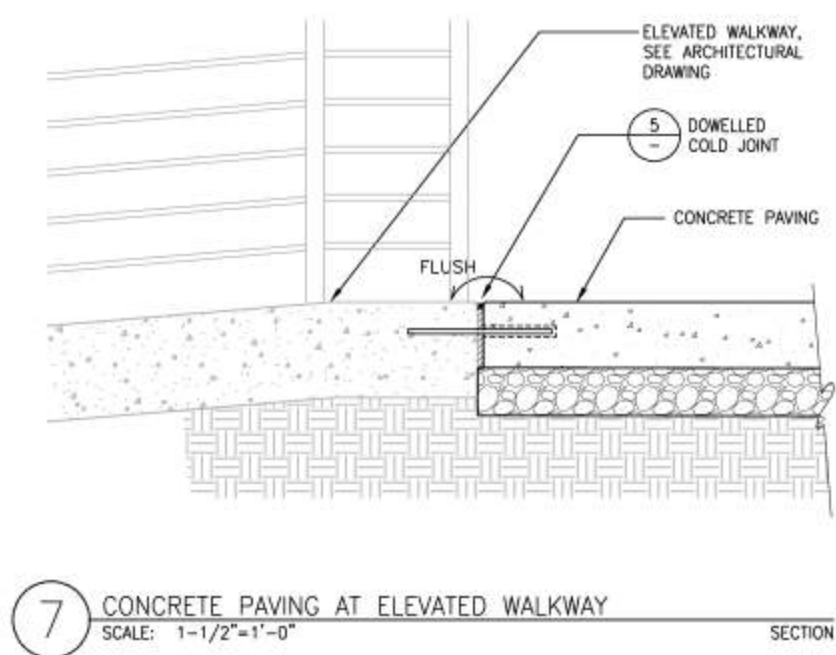
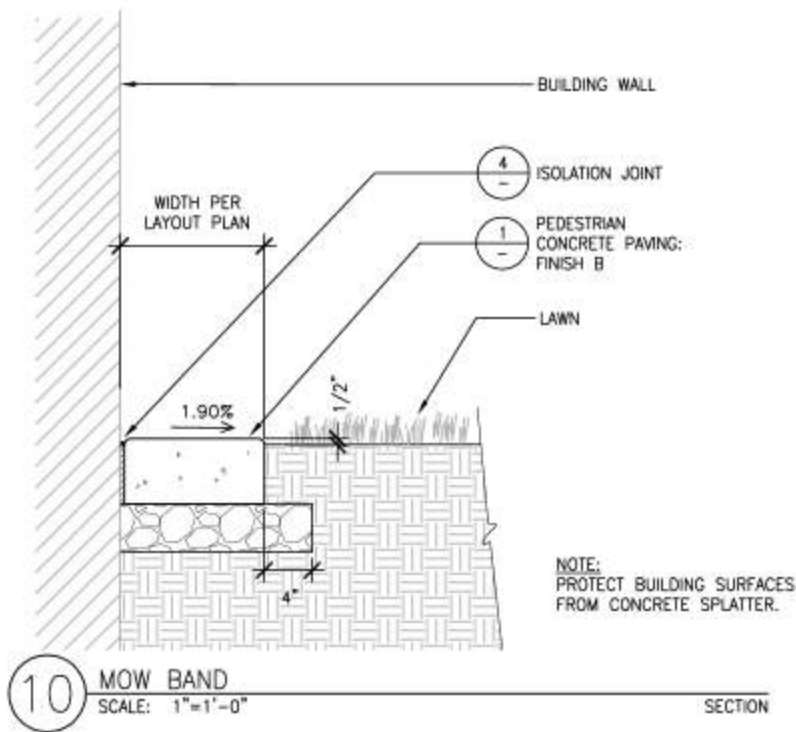


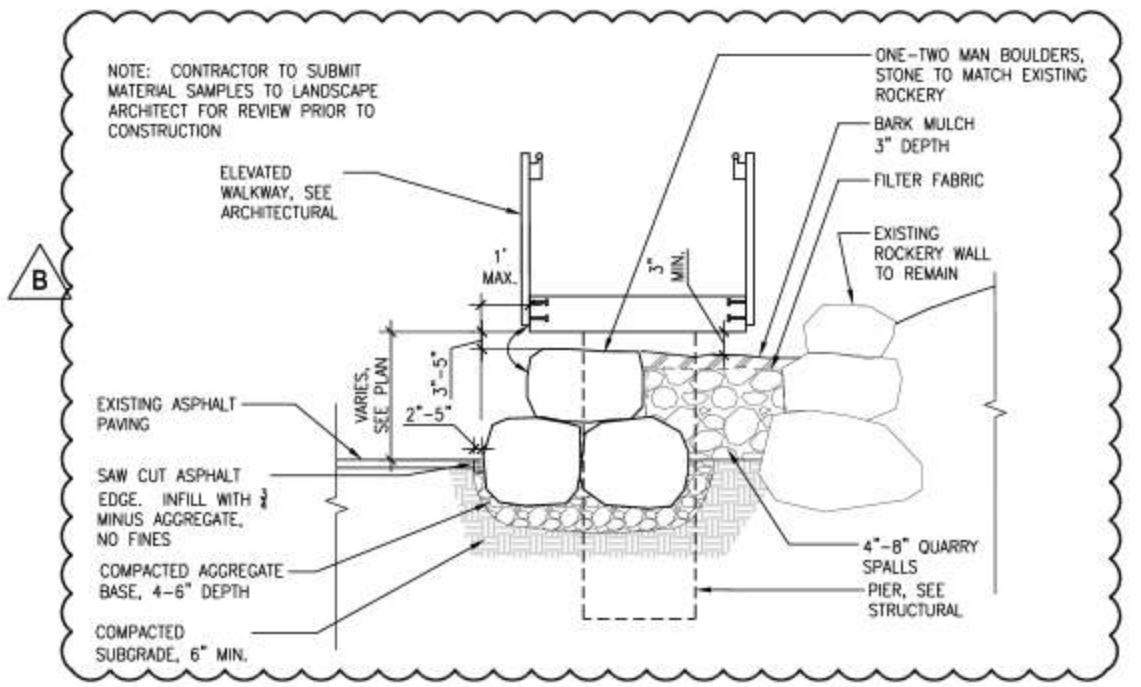
3 TREE PLANTING
SCALE: 3/4"=1'-0"



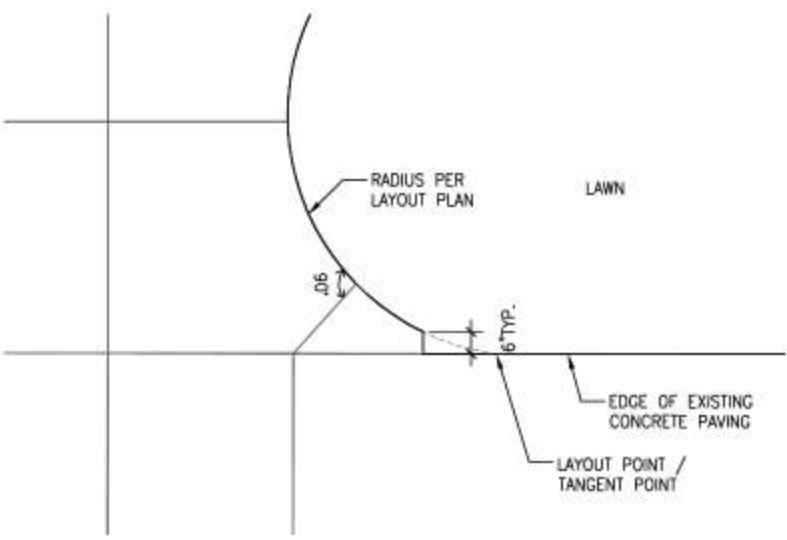
- NOTES:**
- ALL TREE PROTECTION AREAS SHALL HAVE PROTECTIVE BARRIER FENCES ERECTED AT THE EDGES OF THE ROOT PROTECTION ZONES OR AS DIRECTED BY PROJECT ARBORIST AND SPR URBAN FORESTER.
 - THE FENCES SHALL BE MADE OF CHAIN LINK FABRIC AND SUPPORTED BY T-BAR METAL FENCE POSTS SPACED A MAXIMUM OF 8- FEET APART.
 - NO GRADING, FILLING, OPERATION OR STORAGE OF EQUIPMENT, MODIFICATIONS TO DRAINAGE, UTILITY TRENCHES, UNDERSTORY REMOVAL, OR OTHER ACTIVITY SHOULD OCCUR WITHIN THE ROOT PROTECTION ZONES UNLESS UNDER THE DIRECT SUPERVISION OF A CERTIFIED ARBORIST AND SPR URBAN FORESTER.
 - TREE FENCES SHALL BE ERECTED AROUND ROOT PROTECTION ZONE OF ALL TREES TO BE SAVED PRIOR TO THE START OF CONSTRUCTION.
 - REMOVE TREE PROTECTION FENCING ONE WEEK PRIOR TO PHYSICAL COMPLETION.

2 TREE PROTECTION FENCING
SCALE: NTS

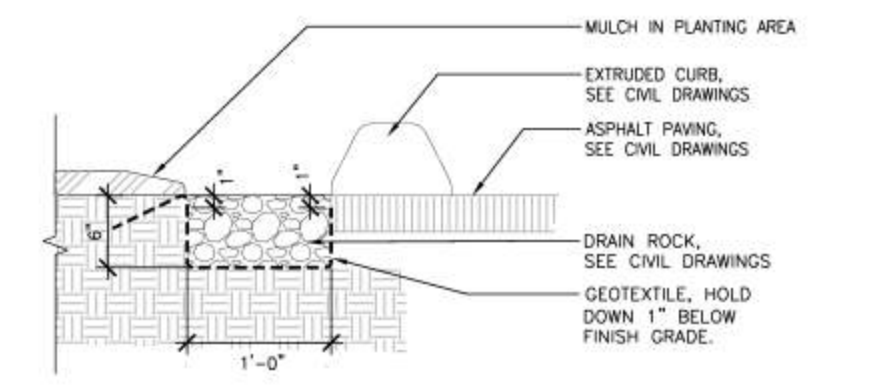




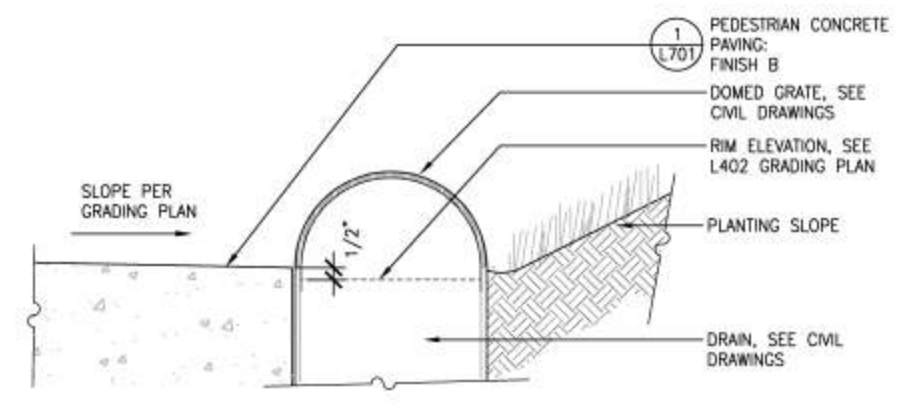
7 STONE WALL
SCALE: 1/2"=1'-0"
SECTION



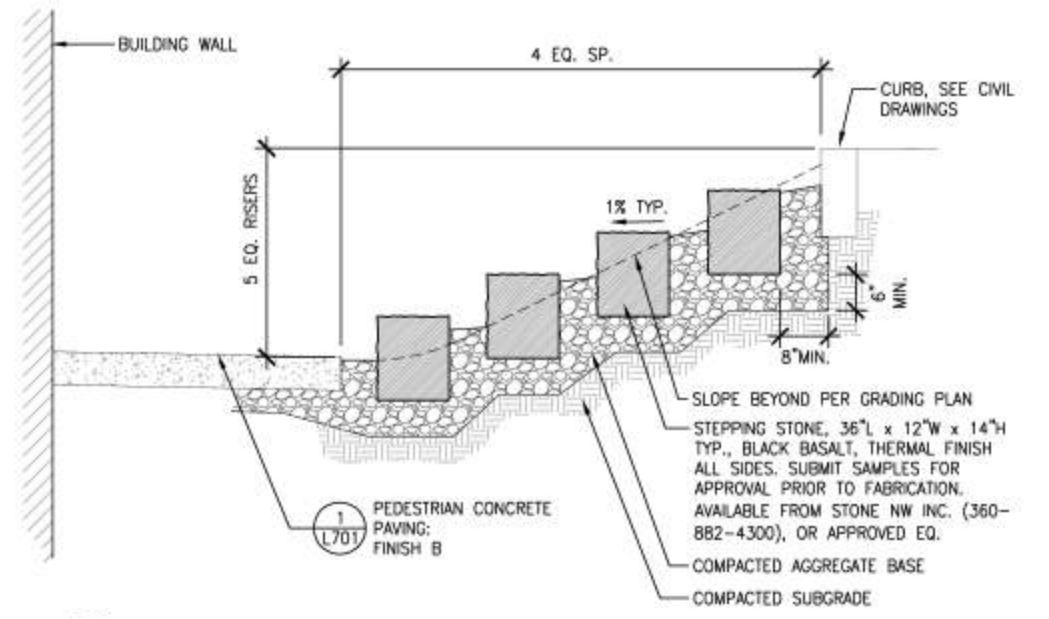
4 CONCRETE PAVING TERMINATION
SCALE: 1/2"=1'-0"
PLAN



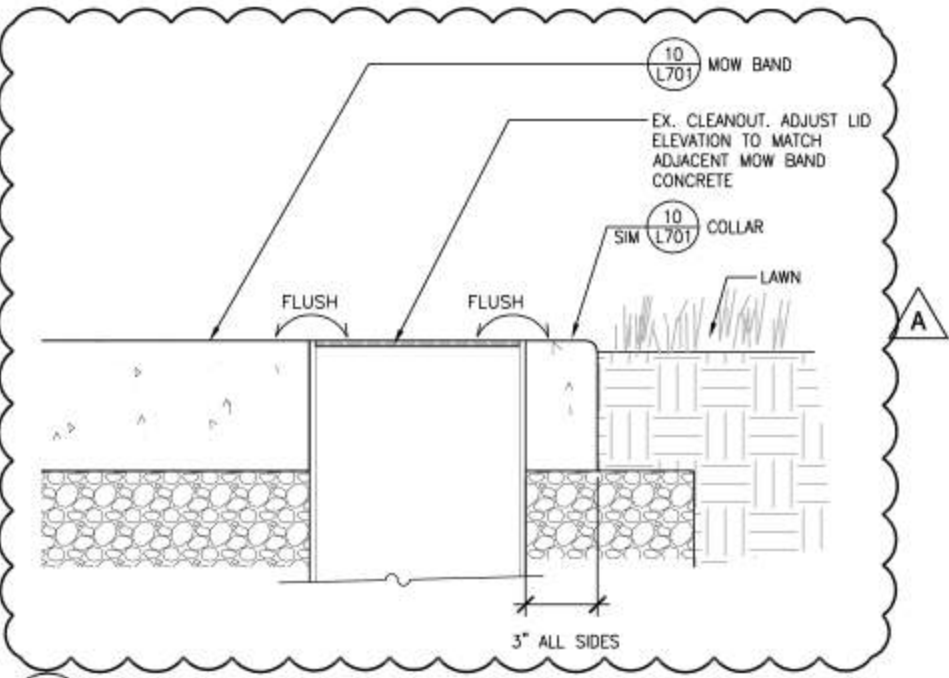
1 DRAINAGE BAND
SCALE: 1-1/2"=1'-0"
SECTION



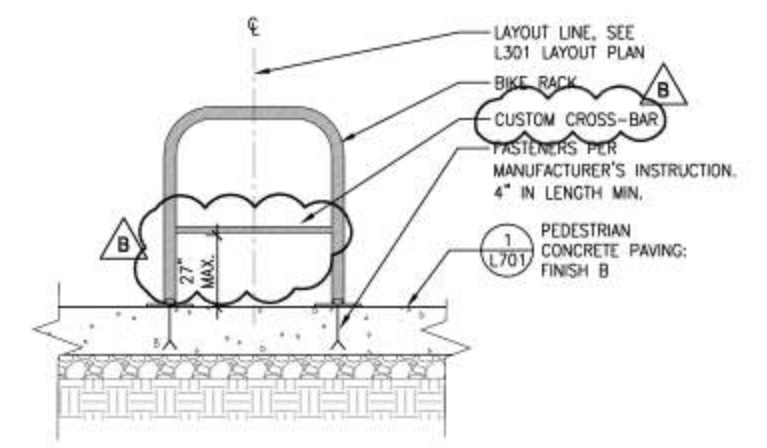
5 AREA DRAIN
SCALE: 3"=1'-0"
SECTION



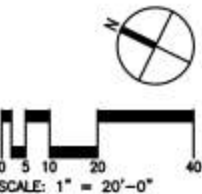
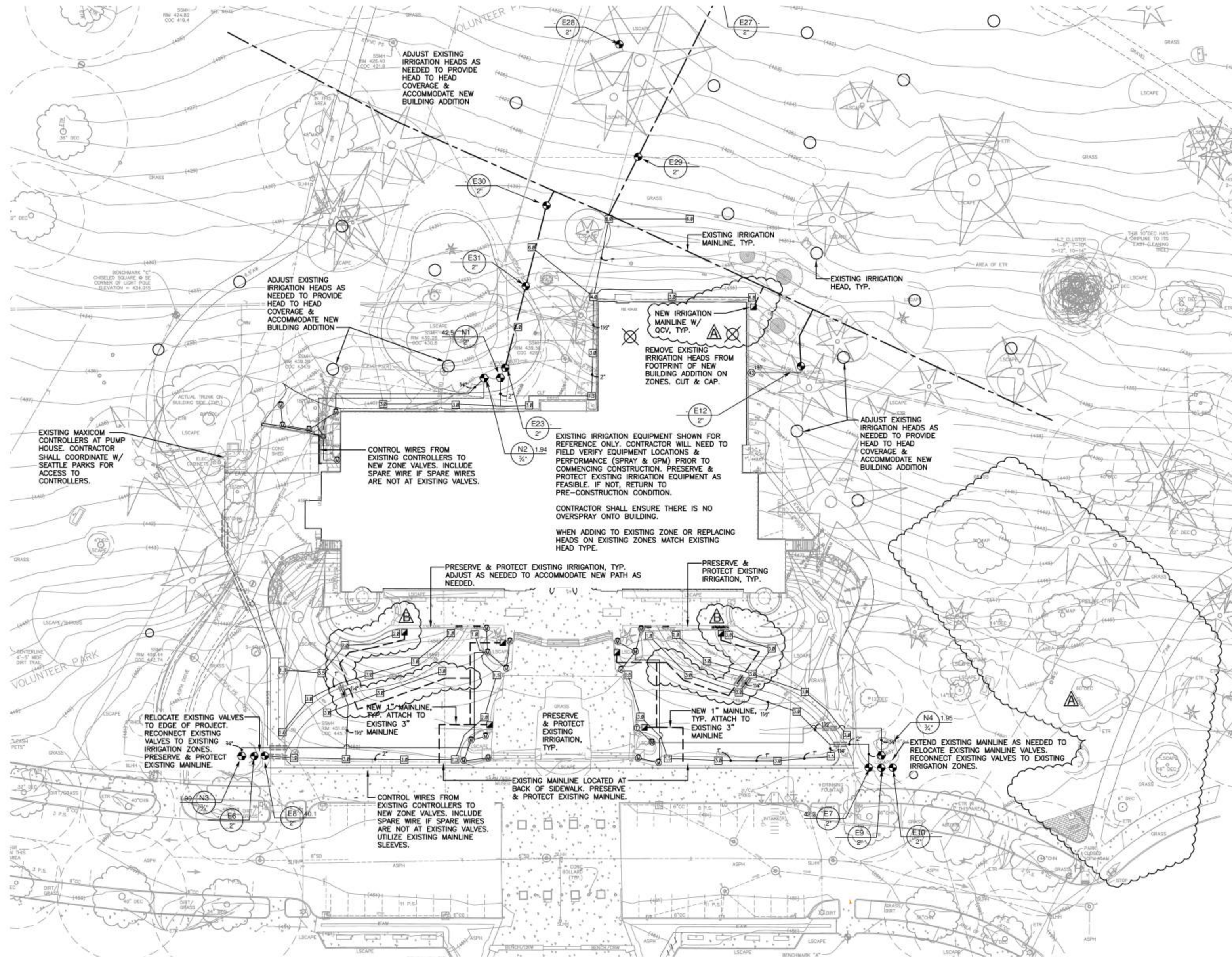
2 STEPPING STONE
SCALE: 3/4"=1'-0"
SECTION



6 EX. CLEANOUT AT MOW BAND
SCALE: 3"=1'-0"
SECTION



3 BIKE RACKS - SURFACE MOUNT
SCALE: 3/4"=1'-0"
SECTION



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Date: 6/23/17

Irrigation Plan

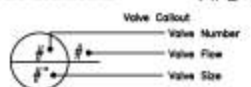
L801

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
⊗ ⊙ ⊕	HUNTER MP1000 RD12-SAM-F-P45 SHRUB ROTATOR. MP ROTATOR NOZZLE ON RD-1800 TURF SPRAY BODY ON 12.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR AND FLOW SHIELD. 1/2" NPT FEMALE THREADED INLET. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC ON PRS40 BODY.	40
⊕	HUNTER MP CORNER RD12-SAM-F-P45 SHRUB ROTATOR. MP ROTATOR NOZZLE ON RD-1800 TURF SPRAY BODY ON 12.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR AND FLOW SHIELD. 1/2" NPT FEMALE THREADED INLET. T=TURQUOISE ADJ ARC 45-105 ON PRS40 BODY.	40
⊗ ⊙ ⊕	HUNTER MP STRIP RD12-SAM-F-P45 SHRUB ROTATOR. MP ROTATOR NOZZLE ON RD-1800 TURF SPRAY BODY ON 12.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR AND FLOW SHIELD. 1/2" NPT FEMALE THREADED INLET. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP, ON PRS40 BODY.	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS
⊗	HUNTER I-20-ADS, 36S TURF ROTOR, 4" POPUP, ADJUSTABLE AND FULL CIRCLE, WITH CHECK VALVE, STAINLESS STEEL RISER	30	0.90	30'
⊗	HUNTER I-20-ADS, 36S TURF ROTOR, 4" POPUP, ADJUSTABLE AND FULL CIRCLE, WITH CHECK VALVE, STAINLESS STEEL RISER	45	1.50	31'
⊗	HUNTER I-20-ADS, 36S TURF ROTOR, 4" POPUP, ADJUSTABLE AND FULL CIRCLE, WITH CHECK VALVE, STAINLESS STEEL RISER	45	2.00	34'
⊗	HUNTER I-20-ADS, 36S TURF ROTOR, 4" POPUP, ADJUSTABLE AND FULL CIRCLE, WITH CHECK VALVE, STAINLESS STEEL RISER	45	3.00	38'
⊗	HUNTER I-20-ADS, 36S TURF ROTOR, 4" POPUP, ADJUSTABLE AND FULL CIRCLE, WITH CHECK VALVE, STAINLESS STEEL RISER	30	2.60	34'
⊗	HUNTER I-20-ADS, 36S TURF ROTOR, 4" POPUP, ADJUSTABLE AND FULL CIRCLE, WITH CHECK VALVE, STAINLESS STEEL RISER	45	4.00	40'
⊗	HUNTER I-20-ADS, 36S TURF ROTOR, 4" POPUP, ADJUSTABLE AND FULL CIRCLE, WITH CHECK VALVE, STAINLESS STEEL RISER	45	6.00	43'
⊗ ^{ARC}	TORO 640-02 TURF ROTOR, 2-3/8" POP-UP, STAINLESS STEEL-ENCASED NOZZLE, COMMERCIAL APPLICATIONS. 1" INLET, NPT THREADED. WITH CHECK-O-MATIC CHECK VALVE, AND ADJUSTABLE ARC TRAJECTORY.	50	14.5	59'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
⊕	EXISTING BUCKNER VB 2-WAY-HD NORMALLY CLOSED, TWO-WAY BRASS VALVE WITH FLOW CONTROL WITH HEAVY DUTY OPTION.
⊕	BUCKNER-SUPERIOR VB-HD (2) 3/4", 1-1/4", 1-1/2", AND 2" ELECTRIC BRASS VALVE WITH REVERSE FLOW DESIGN. INTERNAL AND EXTERNAL BLEED FEATURE. CONTAMINATION RESISTANT. WITH HEAVY DUTY OPTION, 24VAC 50/60 HZ.
⊕	BUCKNER QB44LRC-10 1" QUICK COUPLER VALVE, TWO PIECE BODY, LOCKING COVER
---	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.
---	IRRIGATION MAINLINE: PVC SCHEDULE 40 IRRIGATION PIPE.
---	IRRIGATION MAINLINE: EXISTING PVC SCHEDULE 40
---	PIPE SLEEVE: PVC SCHEDULE 40
⊕	EXISTING IRRIGATION HEAD

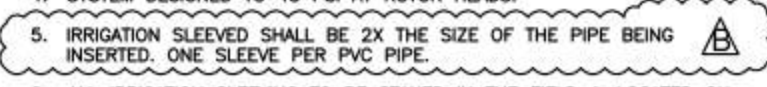


TRENCHING NOTES

- DRAWING IS SCHEMATIC. ACTUAL LOCATIONS MAY VARY DUE TO UTILITIES OR EXISTING CONDITIONS.
- CONTRACTOR SHALL PLACE TRENCHES AS CLOSE TO HARD SURFACES AS POSSIBLE. DO NOT TRENCH WITHIN TWO (2) FEET OF CONCRETE MOW BANDS.
- CONTRACTOR SHALL LAYOUT PROPOSED TRENCHING LAYOUT FOR OWNER APPROVAL PRIOR TO COMMENCING WITH TRENCHING.
- SEE SPECIFICATIONS FOR TRENCHING IN DRIP ZONES OF EXISTING TREES.
- ALL WORK IN THE VICINITY OF EXISTING TREES AND SHRUBS SHALL BE PERFORMED IN STRICT ACCORDANCE WITH PROCEDURES AS OUTLINED IN SPECIFICATION SECTION 015639 "TEMPORARY TREE & PLANT PROTECTION"

IRRIGATION NOTES

- DRAWING IS SCHEMATIC. ACTUAL LOCATIONS MAY VARY DUE TO UTILITIES OR EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- LOCATE QUICK COUPLING VALVE & AUTOMATIC CONTROL VALVES AT POINT OF EASY ACCESS. OWNER'S REPRESENTATIVE TO REVIEW & APPROVE FINAL LOCATION OF ALL QUICK COUPLERS & AUTOMATIC CONTROL VALVES PRIOR TO INSTALLATION.
- HEAD LOCATION MUST BE ADJUSTED IN THE FIELD TO COMPLY W/ EXISTING SITE CONDITIONS AND PLANT MATERIALS.
- SYSTEM DESIGNED TO 45 PSI AT ROTOR HEADS.
- IRRIGATION SLEEVED SHALL BE 2X THE SIZE OF THE PIPE BEING INSERTED. ONE SLEEVE PER PVC PIPE.
- ALL IRRIGATION SLEEVING TO BE STAKED IN THE FIELD & LOCATED ON DIMENSIONED "AS-BUILT" DRAWING TO ALLOW FUTURE LOCATION & USE.
- AIR BLOW IRRIGATION SYSTEM THROUGH QUICK COUPLERS TO WINTERIZE IRRIGATION SYSTEM.
- VALVE BOX LOCATIONS SHALL BE STAKED IN FIELD & APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL LOCATE AND TEST ALL EXISTING IRRIGATION HEADS, VALVES, AND ASSOCIATED APPURTENCES WITH SPR PLUMBER PRIOR TO CONSTRUCTION.



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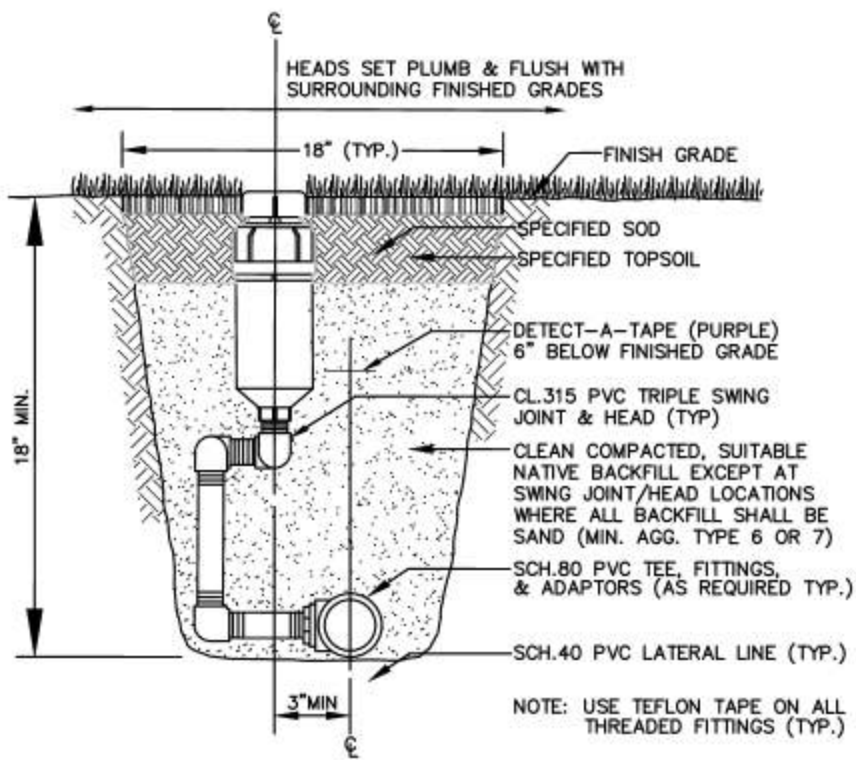


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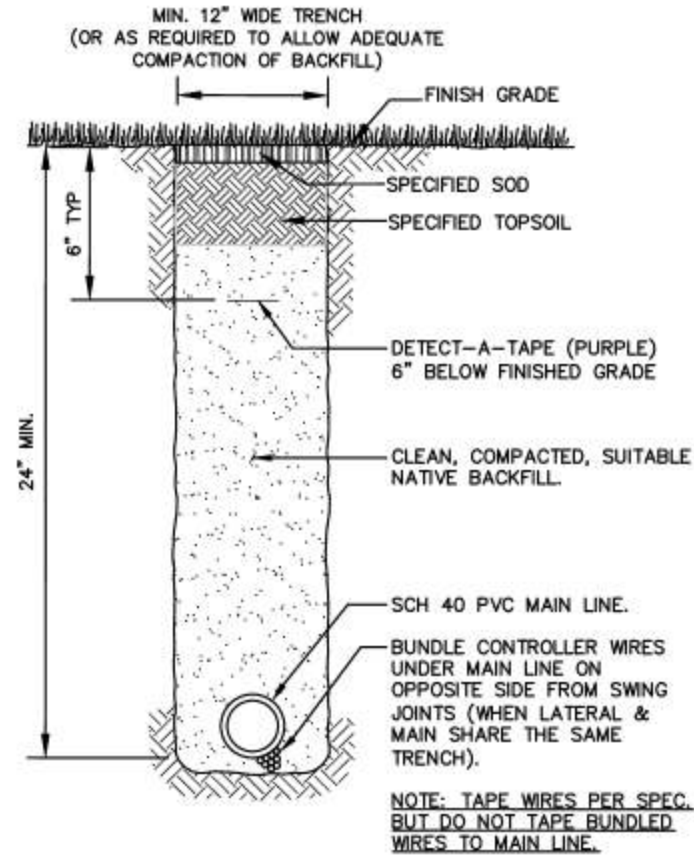
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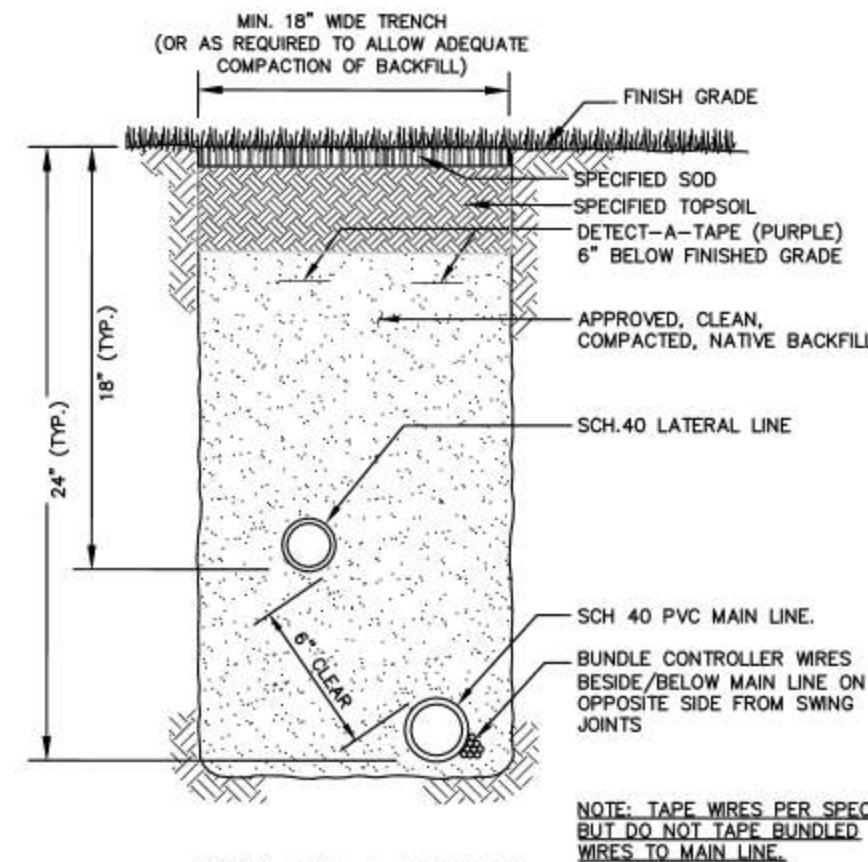
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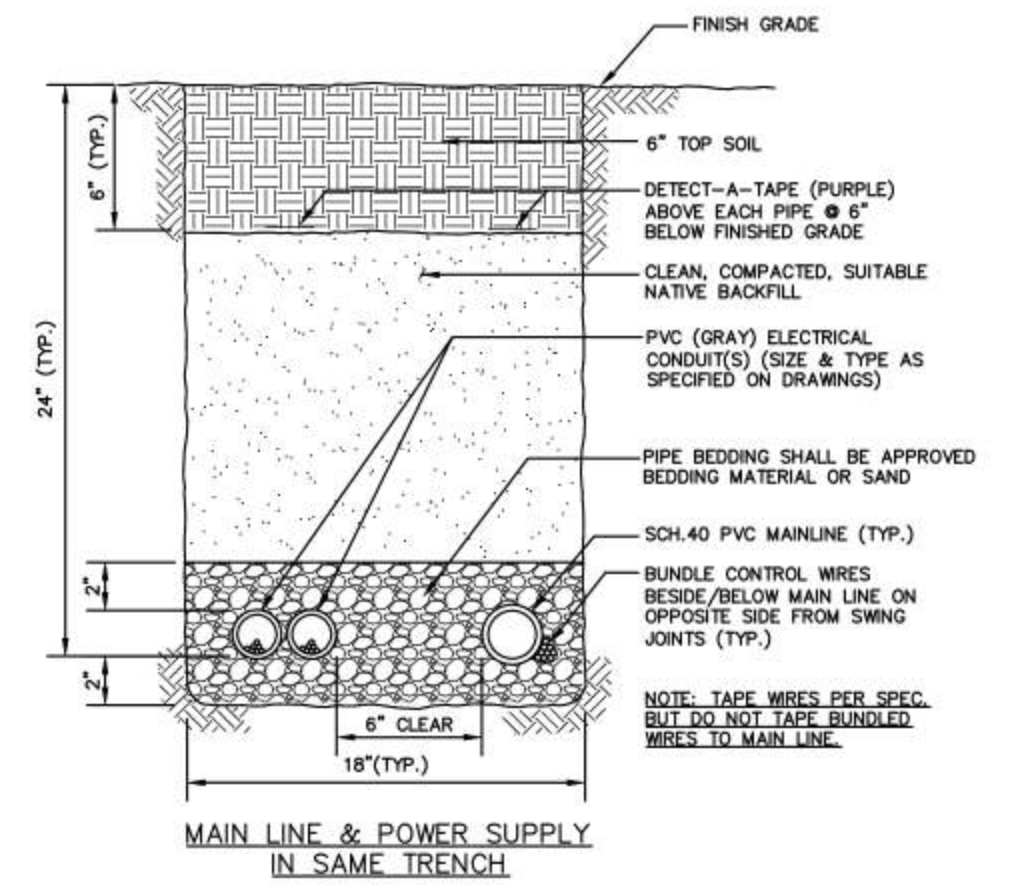
LATERAL LINE WITH SWING JOINT/HEAD



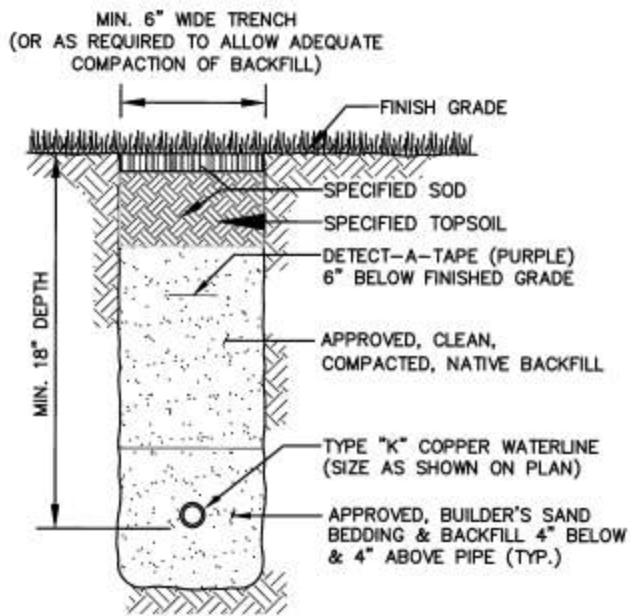
MAIN LINE TRENCH



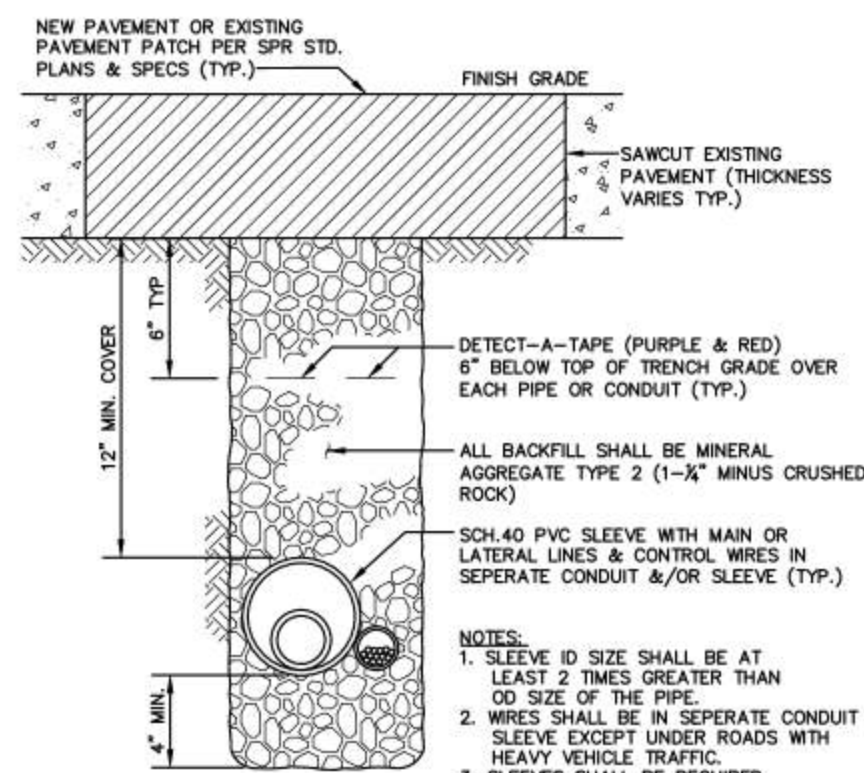
MAIN LINE & LATERAL IN SAME TRENCH



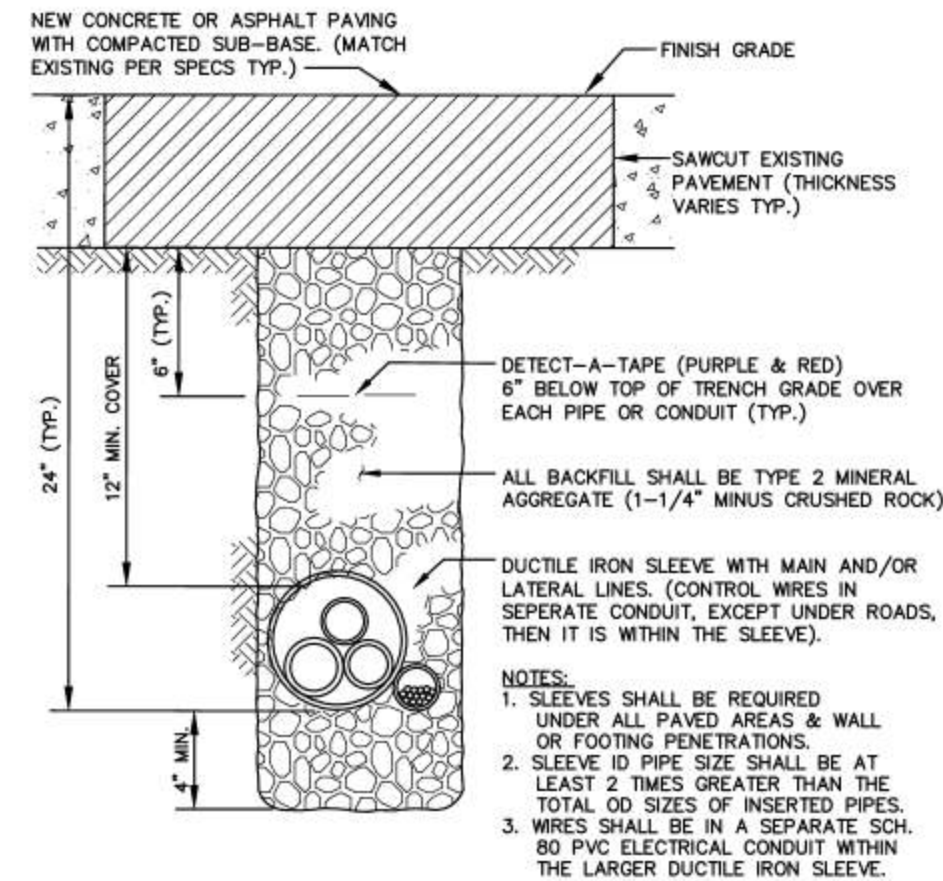
MAIN LINE & POWER SUPPLY IN SAME TRENCH



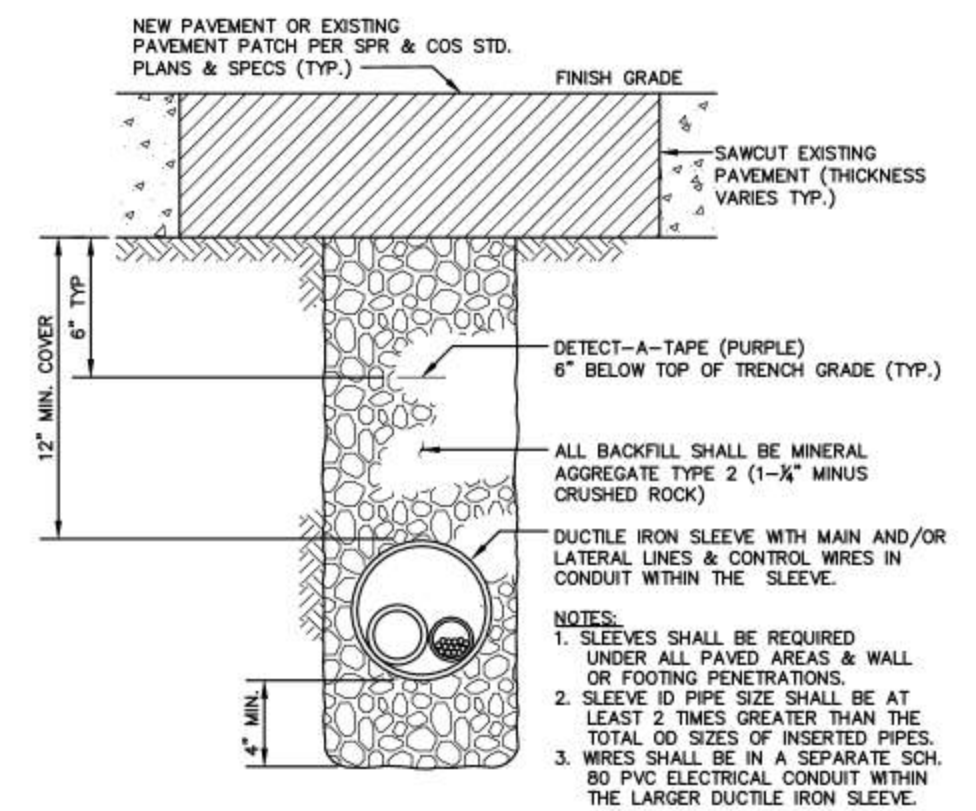
TYPICAL POTABLE WATERLINE TRENCH



IRRIGATION SLEEVE TRENCHING UNDER PATHWAY OR SIDEWALK

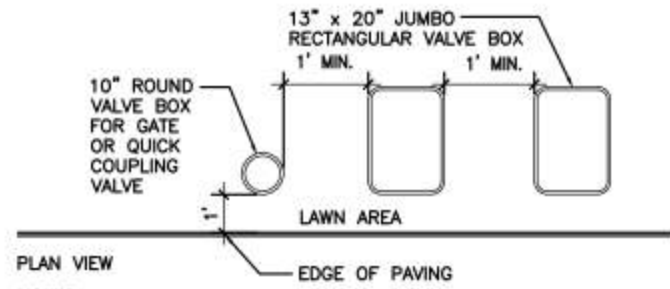


IRRIGATION SLEEVE TRENCHING UNDER PATHWAY OR SERVICE ROAD



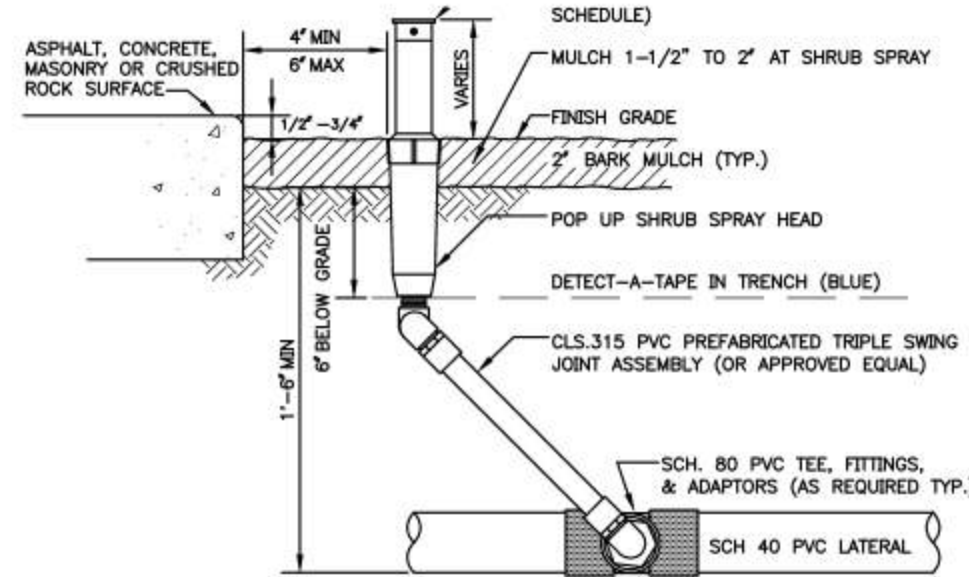
IRRIGATION SLEEVE TRENCHING UNDER STREET ONLY

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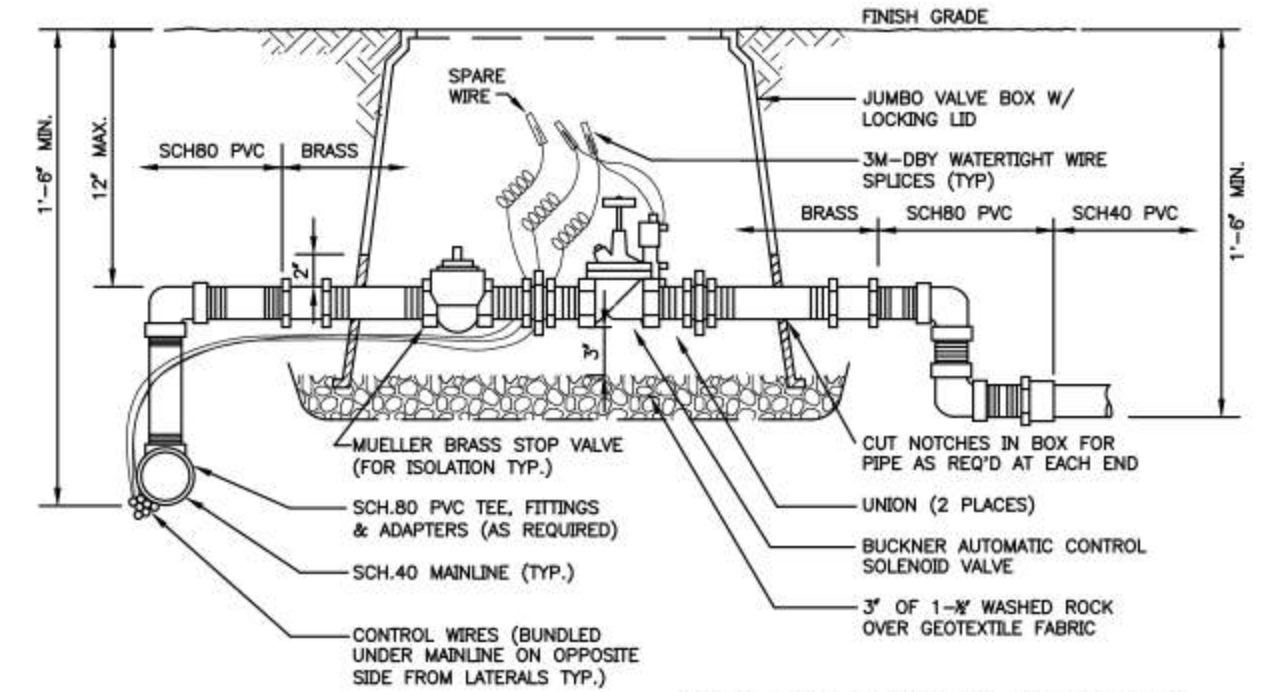
- NOTES:**
1. CENTER VALVE BOX OVER VALVE
 2. SET BOXES 2" ABOVE FINISH GRADE IN GROUND COVER/SHRUB AREA AND FLUSH TO FINISH GRADE IN LAWN AREA.
 3. LOCATE ROUND VALVE BOX & VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
 4. SET BOXES PARALLEL TO EACH OTHER & PERPENDICULAR TO EDGE.
 5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.

VALVE BOX LAYOUT



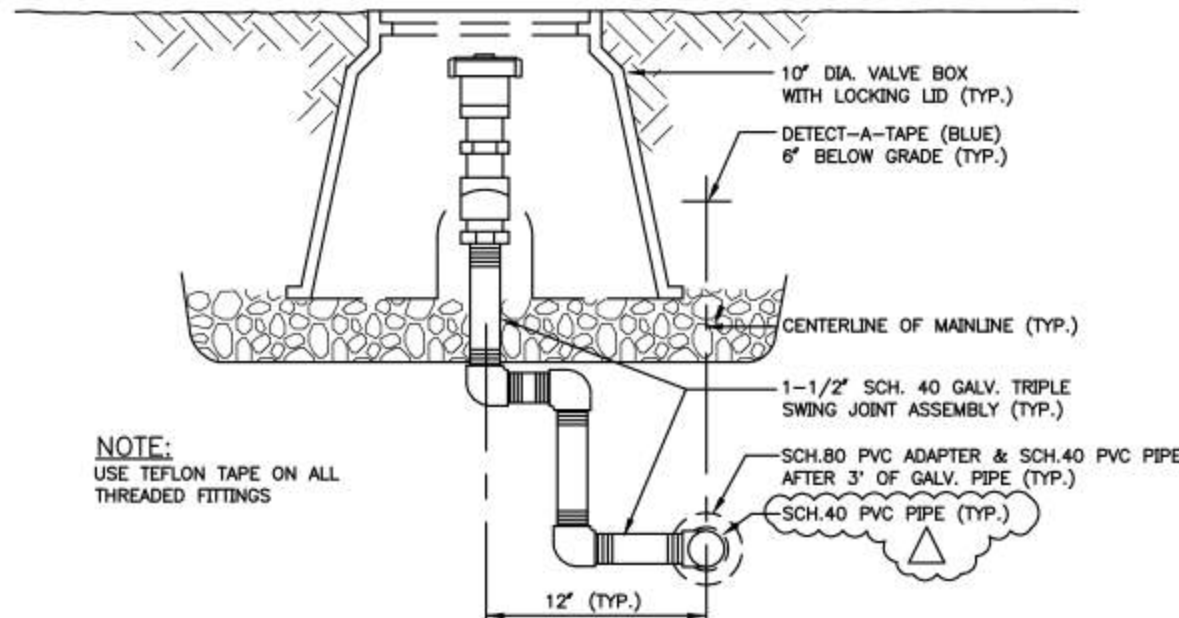
NOTE:
USE TEFLON TAPE ON ALL THREADED FITTINGS

POP UP SPRAY HEAD



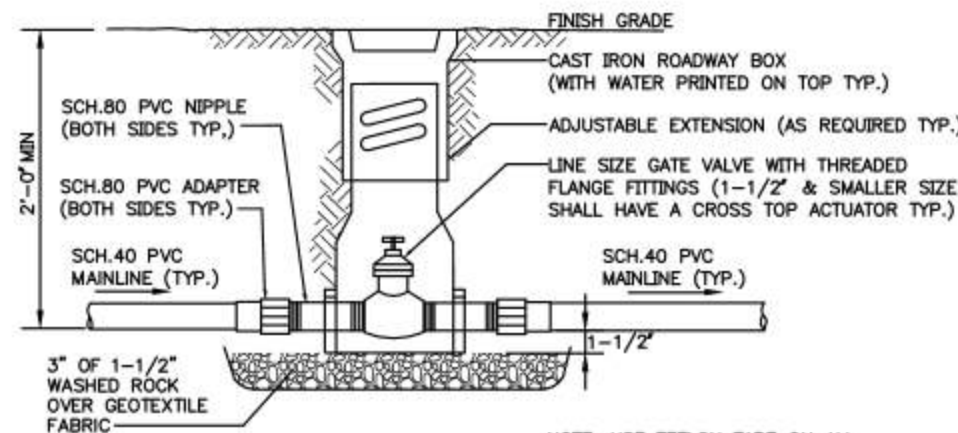
NOTE: CUT 'U' SHAPED NOTCHES IN BOTH SIDES OF VALVE BOX THAT ALLOW 2" MIN. CLEARANCE FROM TOP OF PIPE TO TOP OF CUT-OUT. USE TEFLON TAPE ON ALL THREADED FITTINGS.

AUTOMATIC CONTROL VALVE



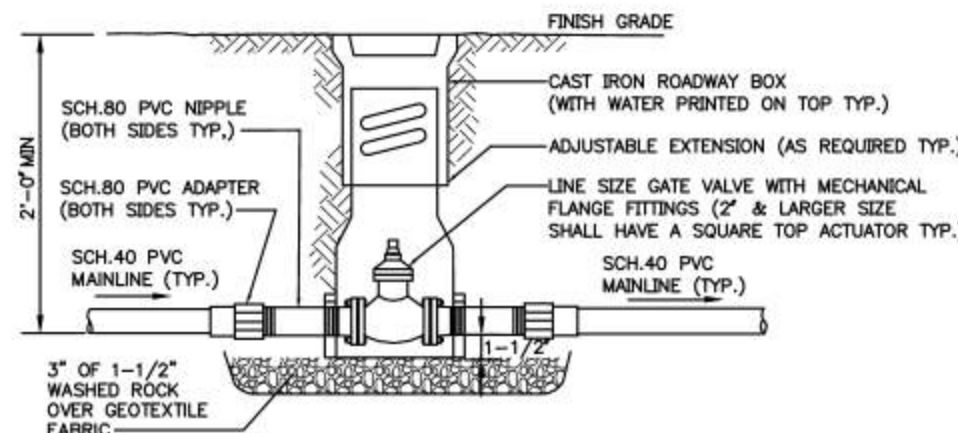
NOTE:
USE TEFLON TAPE ON ALL THREADED FITTINGS

QUICK COUPLER VALVE (NEW MAINLINE)



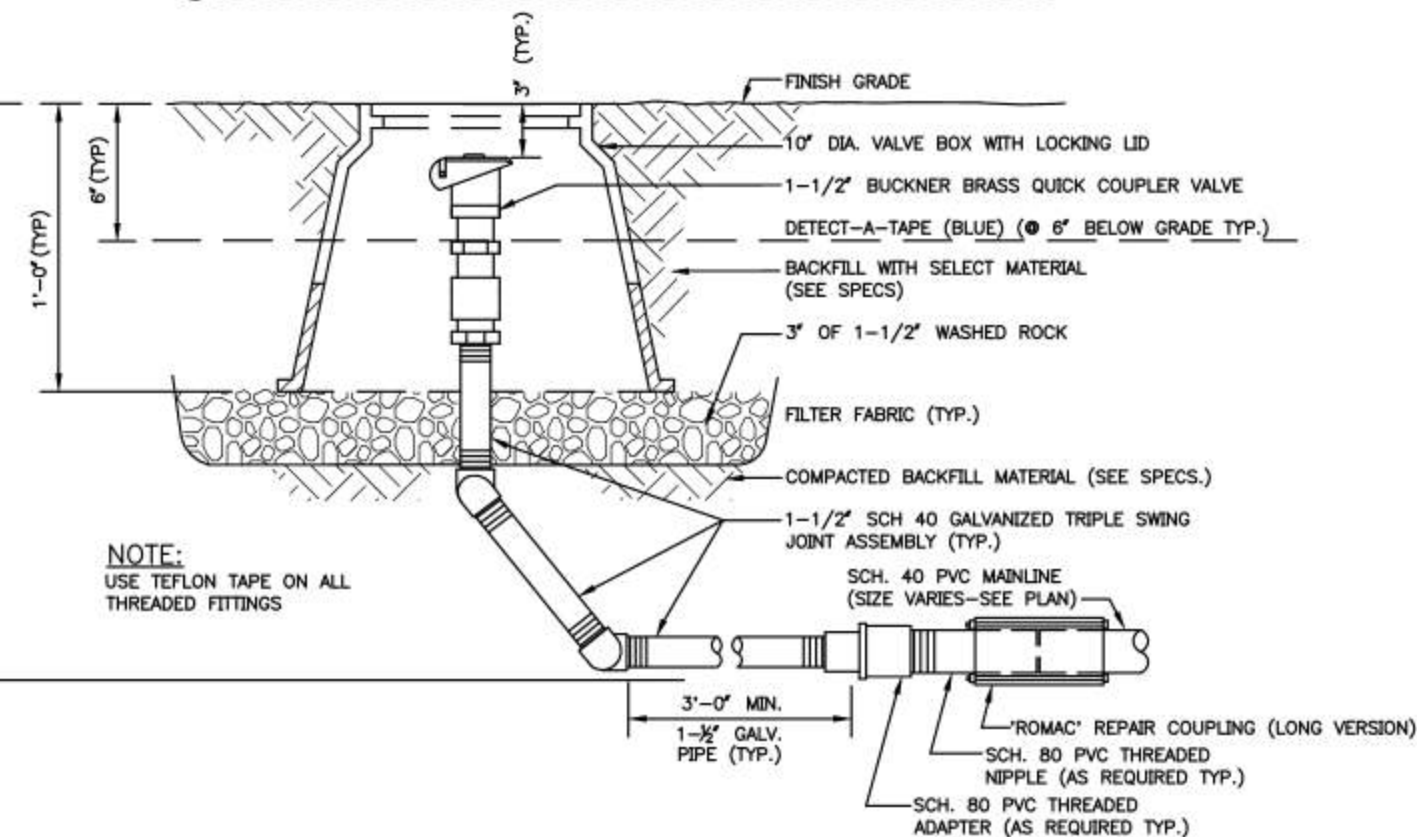
NOTE: USE TEFLON TAPE ON ALL THREADED FITTINGS.

GATE VALVE (1-1/2" & SMALLER)



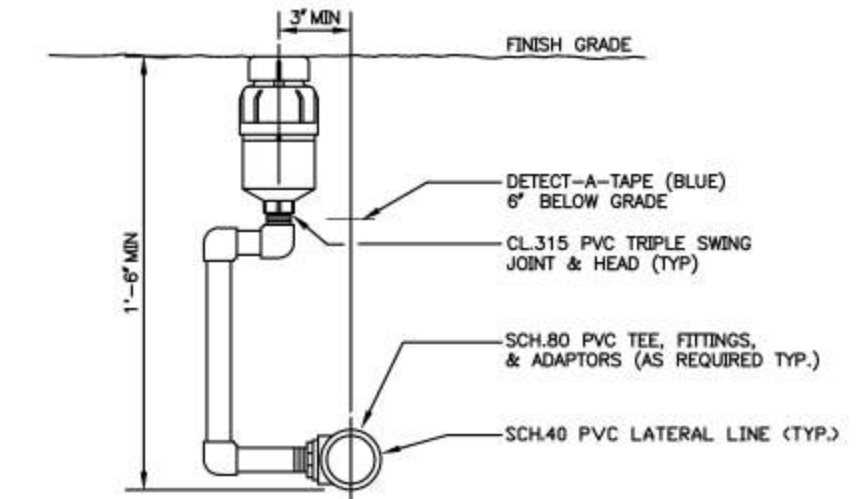
NOTE: USE TEFLON TAPE ON ALL THREADED FITTINGS.

GATE VALVE (2" & LARGER)



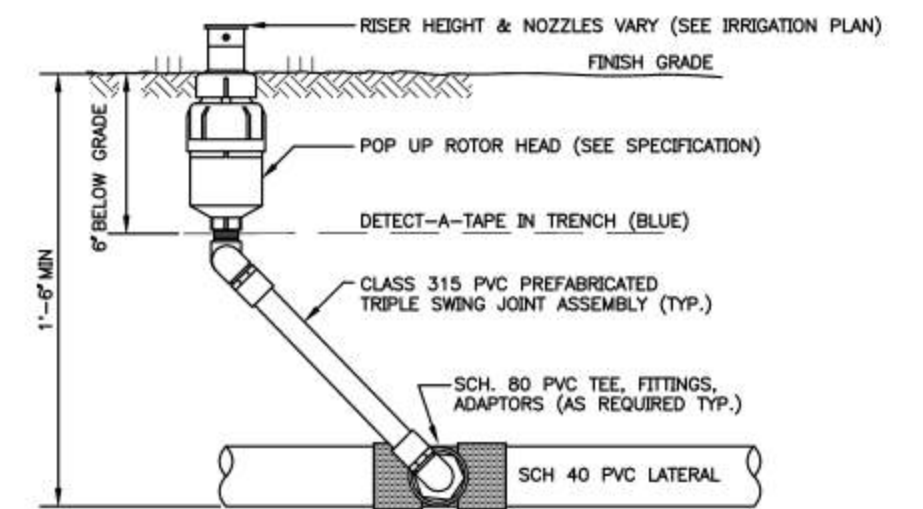
NOTE:
USE TEFLON TAPE ON ALL THREADED FITTINGS

QUICK COUPLER VALVE (EXISTING MAINLINE)



NOTE:
USE TEFLON TAPE ON ALL THREADED FITTINGS

POP UP ROTOR HEAD



NOTE:
USE TEFLON TAPE ON ALL THREADED FITTINGS

POP UP ROTOR HEAD

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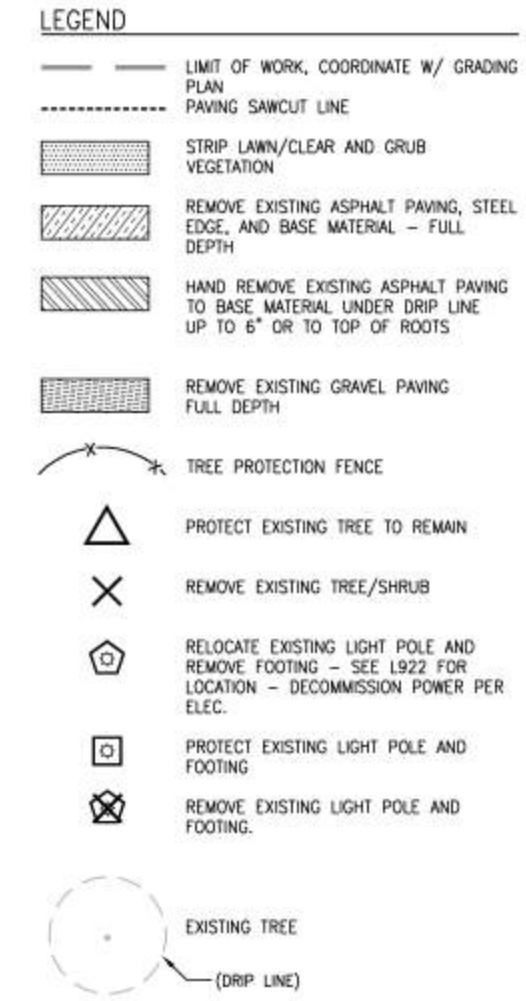
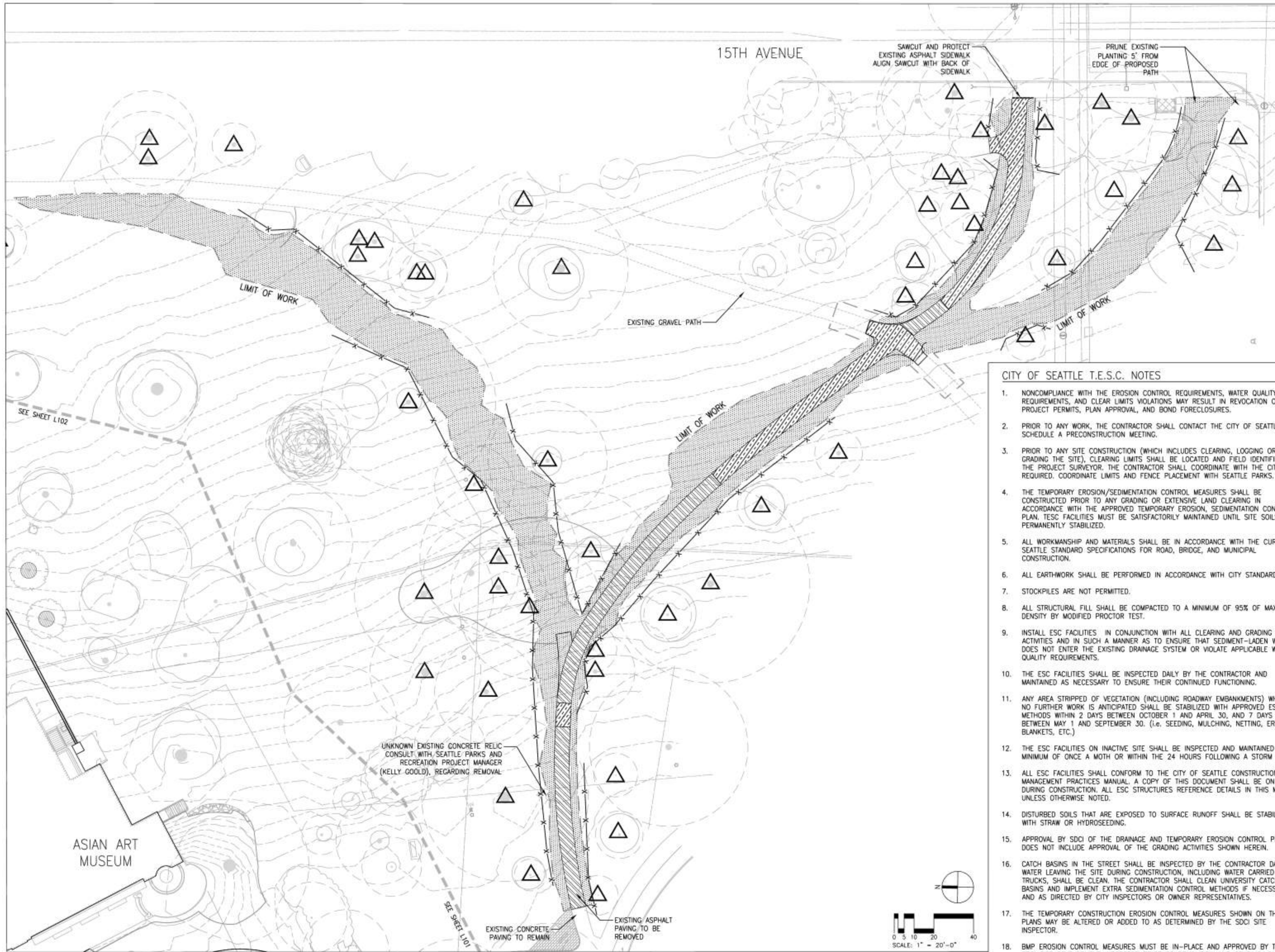
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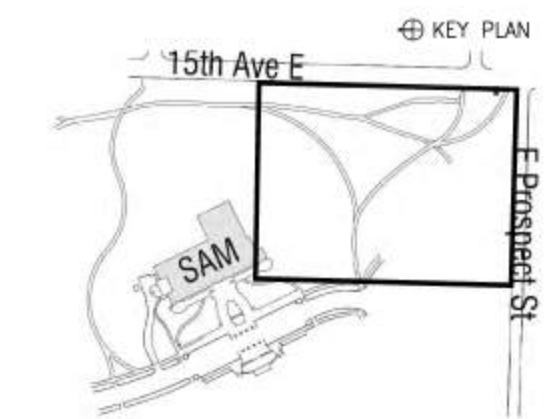
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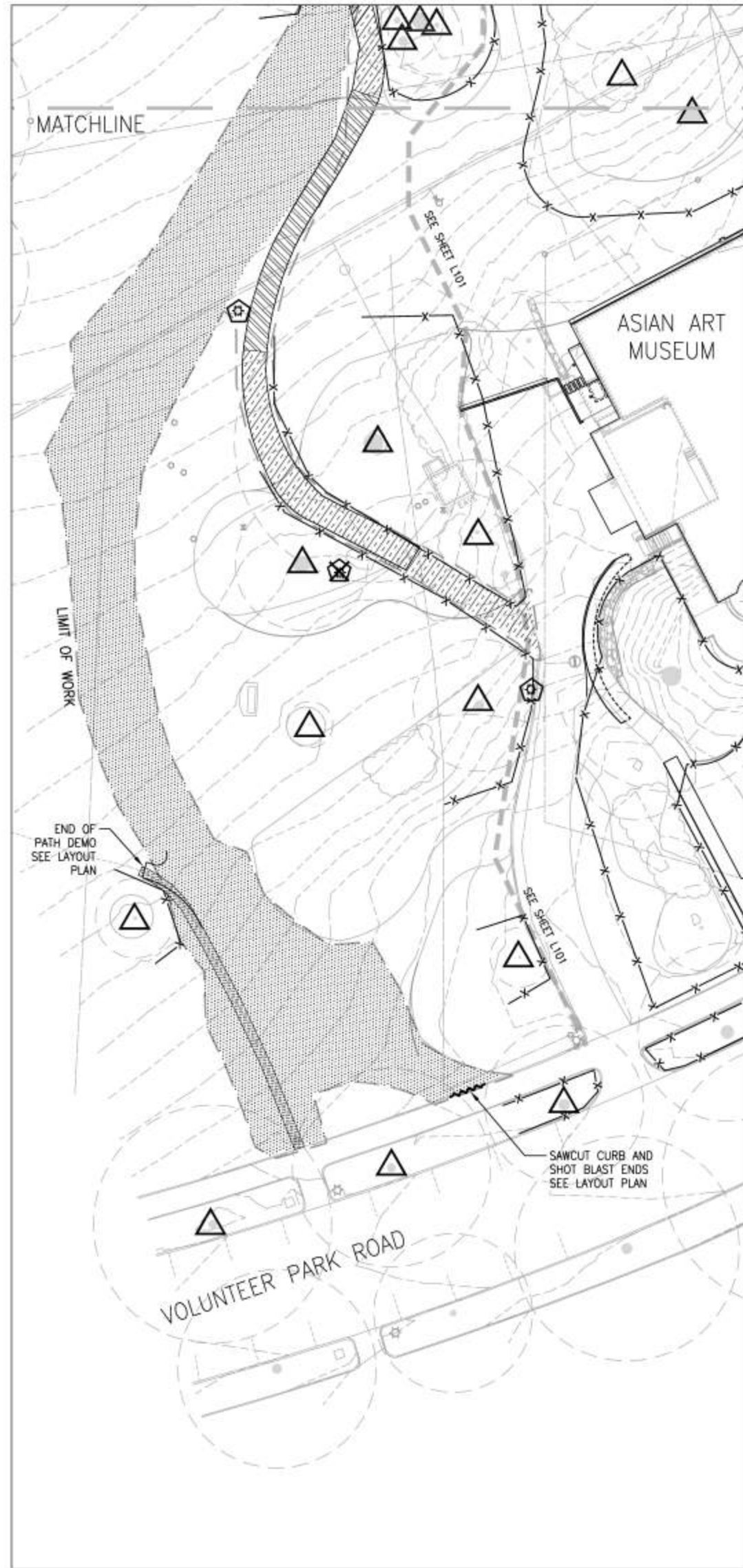
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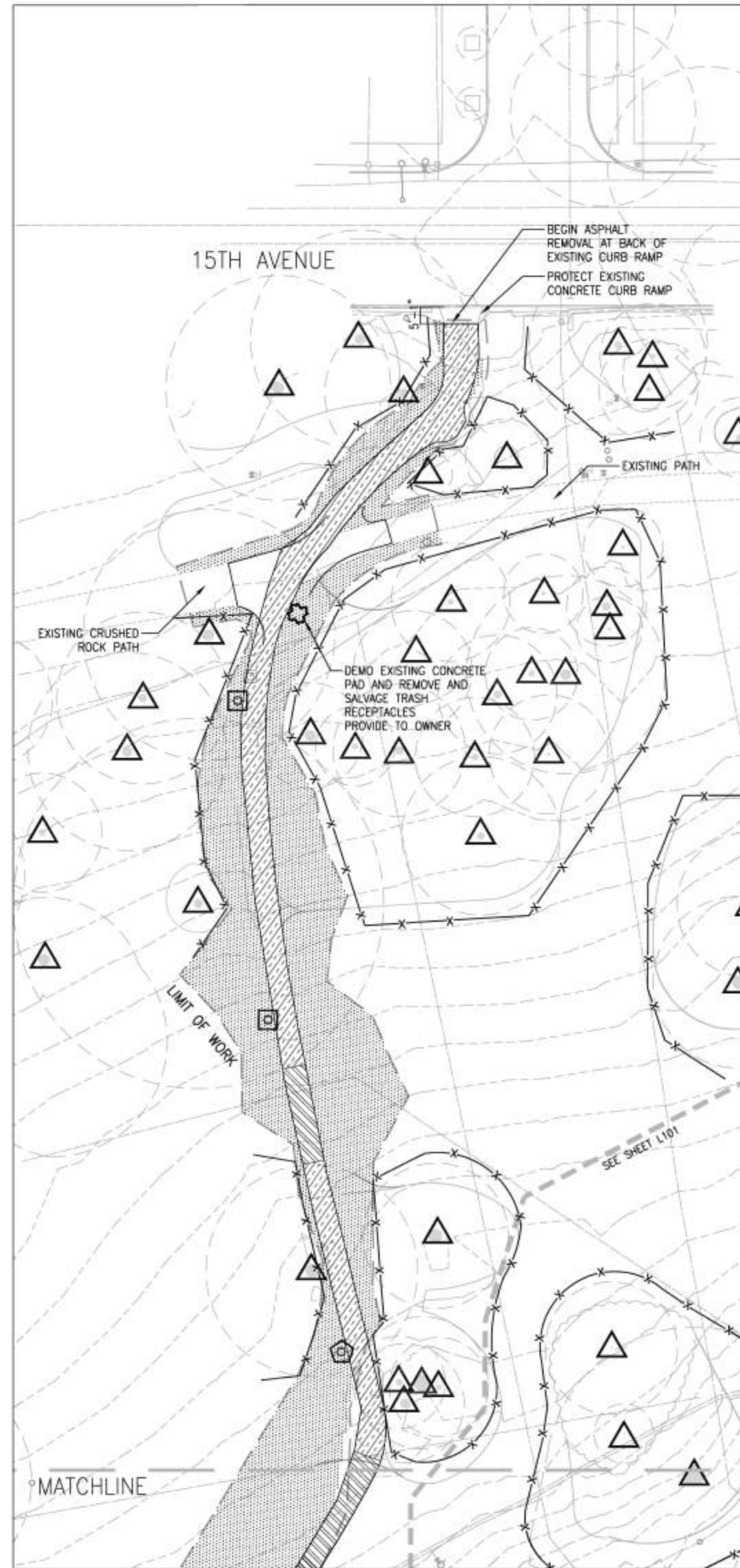
- ### CITY OF SEATTLE T.E.S.C. NOTES
1. NONCOMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS, AND CLEAR LIMITS VIOLATIONS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL, AND BOND FORECLOSURES.
 2. PRIOR TO ANY WORK, THE CONTRACTOR SHALL CONTACT THE CITY OF SEATTLE TO SCHEDULE A PRECONSTRUCTION MEETING.
 3. PRIOR TO ANY SITE CONSTRUCTION (WHICH INCLUDES CLEARING, LOGGING OR GRADING THE SITE), CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR. THE CONTRACTOR SHALL COORDINATE WITH THE CITY AS REQUIRED. COORDINATE LIMITS AND FENCE PLACEMENT WITH SEATTLE PARKS.
 4. THE TEMPORARY EROSION/SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION, SEDIMENTATION CONTROL PLAN. TESC FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL SITE SOILS ARE PERMANENTLY STABILIZED.
 5. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT SEATTLE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
 6. ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARDS.
 7. STOCKPILES ARE NOT PERMITTED.
 8. ALL STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY BY MODIFIED PROCTOR TEST.
 9. INSTALL ESC FACILITIES IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE EXISTING DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER QUALITY REQUIREMENTS.
 10. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
 11. ANY AREA STRIPPED OF VEGETATION (INCLUDING ROADWAY EMBANKMENTS) WHERE NO FURTHER WORK IS ANTICIPATED SHALL BE STABILIZED WITH APPROVED ESC METHODS WITHIN 2 DAYS BETWEEN OCTOBER 1 AND APRIL 30, AND 7 DAYS BETWEEN MAY 1 AND SEPTEMBER 30. (i.e. SEEDING, MULCHING, NETTING, EROSION BLANKETS, ETC.)
 12. THE ESC FACILITIES ON INACTIVE SITE SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.
 13. ALL ESC FACILITIES SHALL CONFORM TO THE CITY OF SEATTLE CONSTRUCTION BEST MANAGEMENT PRACTICES MANUAL. A COPY OF THIS DOCUMENT SHALL BE ON-SITE DURING CONSTRUCTION. ALL ESC STRUCTURES REFERENCE DETAILS IN THIS MANUAL UNLESS OTHERWISE NOTED.
 14. DISTURBED SOILS THAT ARE EXPOSED TO SURFACE RUNOFF SHALL BE STABILIZED WITH STRAW OR HYDROSEEDING.
 15. APPROVAL BY SDCI OF THE DRAINAGE AND TEMPORARY EROSION CONTROL PLANS DOES NOT INCLUDE APPROVAL OF THE GRADING ACTIVITIES SHOWN HEREIN.
 16. CATCH BASINS IN THE STREET SHALL BE INSPECTED BY THE CONTRACTOR DAILY. WATER LEAVING THE SITE DURING CONSTRUCTION, INCLUDING WATER CARRIED BY TRUCKS, SHALL BE CLEAN. THE CONTRACTOR SHALL CLEAN UNIVERSITY CATCH BASINS AND IMPLEMENT EXTRA SEDIMENTATION CONTROL METHODS IF NECESSARY AND AS DIRECTED BY CITY INSPECTORS OR OWNER REPRESENTATIVES.
 17. THE TEMPORARY CONSTRUCTION EROSION CONTROL MEASURES SHOWN ON THESE PLANS MAY BE ALTERED OR ADDED TO AS DETERMINED BY THE SDCI SITE INSPECTOR.
 18. BMP EROSION CONTROL MEASURES MUST BE IN-PLACE AND APPROVED BY THE SDCI SITE DEVELOPMENT INSPECTOR PRIOR TO DEMOLITION AND GRADING. CALL (206) 684-8860 TO SCHEDULE AN INSPECTION.

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 2. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE TEMPORARY TREE AND PLANT PROTECTION SPECIFICATIONS FOR THE PROJECT.
 3. PROTECT ALL EXISTING PLANTING AREAS UNLESS NOTED OTHERWISE.
 4. IRRIGATION IN THE PARK SHALL NOT BE INTERRUPTED DURING CONSTRUCTION. PROVIDE TEMPORARY IRRIGATION OR HAND WATERING AS REQUIRED.
 5. COORDINATE SHUTOFF OF IRRIGATION WITH SEATTLE DEPARTMENT OF PARKS AND RECREATION.
 6. CONSULT THE PROJECT ARBORIST (AND SPR URBAN FORESTER) FOR APPROVAL PRIOR TO DOING ANY WORK WITHIN DESIGNATED TREE PROTECTION AREAS.
 7. REMOVE ALL EXISTING STEEL EDGING ON PATHS TO BE DEMOLISHED.
 8. CONTRACTOR SHALL LOCATE AND TEST ALL EXISTING IRRIGATION HEADS, VALVES, AND ASSOCIATED APPURTENANCES WITH SPR PLUMBER PRIOR TO CONSTRUCTION.





NORTH PATH - WEST SIDE
SCALE: 1" = 20'
Plan



NORTH PATH - EAST SIDE
SCALE: 1" = 20'
Plan

CITY OF SEATTLE T.E.S.C. NOTES

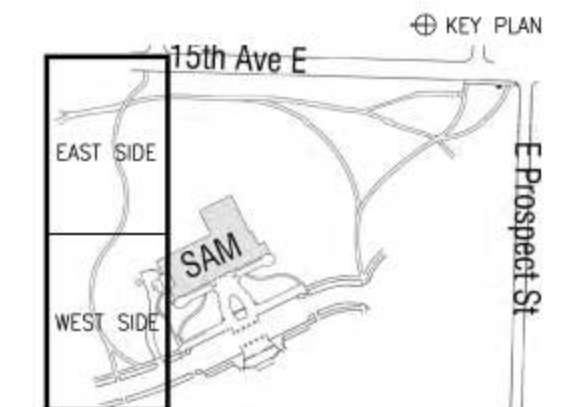
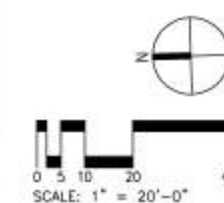
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LEGEND

- LIMIT OF WORK, COORDINATE W/ GRADING PLAN
- PAVING SAWCUT LINE
- STRIP LAWN/CLEAR AND GRUB VEGETATION
- REMOVE EXISTING ASPHALT PAVING, STEEL EDGE, AND BASE MATERIAL - FULL DEPTH
- HAND REMOVE EXISTING ASPHALT PAVING TO BASE MATERIAL UNDER DRIP LINE UP TO 6" OR TO TOP OF ROOTS
- REMOVE EXISTING GRAVEL PAVING FULL DEPTH
- TREE PROTECTION FENCE
- PROTECT EXISTING TREE TO REMAIN
- REMOVE EXISTING TREE/SHRUB
- RELOCATE EXISTING LIGHT POLE AND REMOVE FOOTING - SEE L922 FOR LOCATION - DECOMMISSION POWER PER ELEC.
- PROTECT EXISTING LIGHT POLE AND FOOTING
- REMOVE EXISTING LIGHT POLE AND FOOTING
- EXISTING TREE (DRIP LINE)

GENERAL NOTES

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WALKER MACY



STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
CHRISTOPHER S. JONES
CERTIFICATE NO. 1271

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Revisions

- A 9/12/17 Permit Corrections I
- B 9/12/17 Permit Corrections I

Construction Documents

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Date: 9/1/2017

Sheet Title

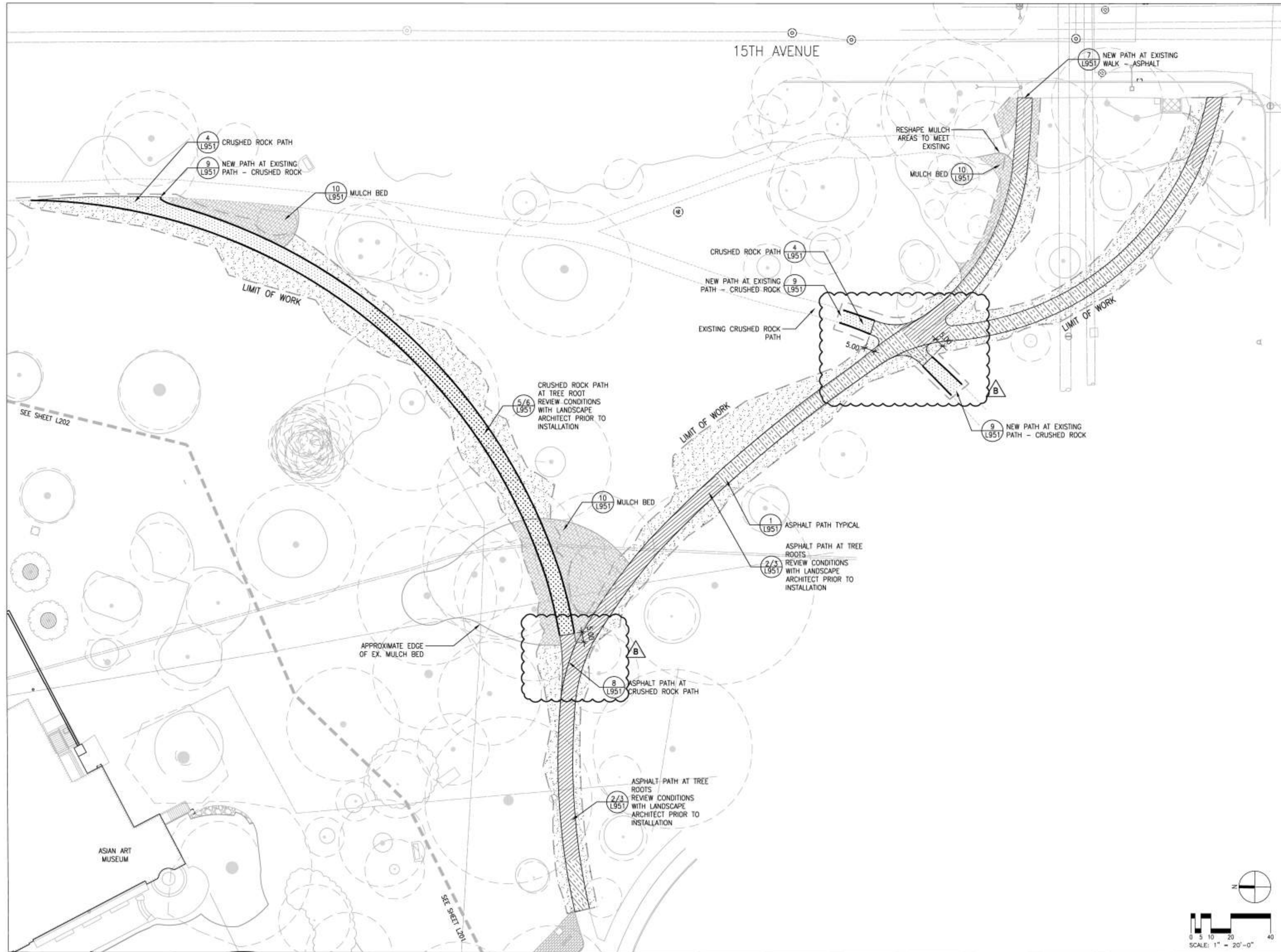
Sheet Number

Demolition and Plant Protection Plan - North

L912

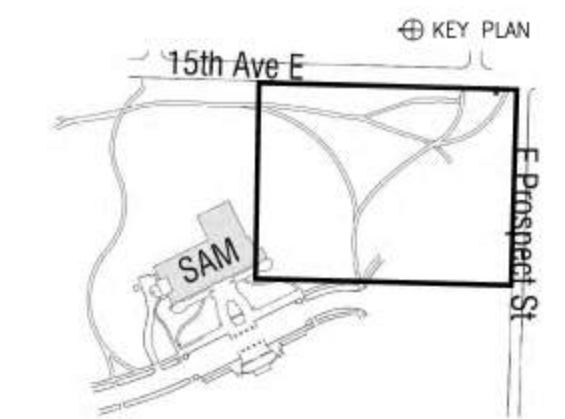
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SEATTLE, WA 98101
206-462-3974



- LEGEND**
- ASPHALT PATH - TYPICAL
SEE DETAIL 1, SHEET 951
 - ASPHALT PATH - AT TREE ROOTS
EXTENTS ARE APPROXIMATE
REVIEW CONDITIONS WITH LANDSCAPE
ARCHITECT PRIOR TO INSTALLATION
SEE DETAIL 2/3, SHEET 951
 - CRUSHED ROCK PATH - TYPICAL
SEE DETAIL 4, SHEET 951
 - CRUSHED ROCK PATH - AT TREE ROOTS
EXTENTS ARE APPROXIMATE
REVIEW CONDITIONS WITH LANDSCAPE
ARCHITECT PRIOR TO INSTALLATION
SEE DETAIL 5/6, SHEET 951
 - LAWN
 - MULCH AREA
SEE DETAIL 10, SHEET 951
 - STEEL EDGE
 - RELOCATED LIGHT FIXTURE,
SEE ELECTRICAL AND STRUCTURAL DRAWINGS

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Revisions

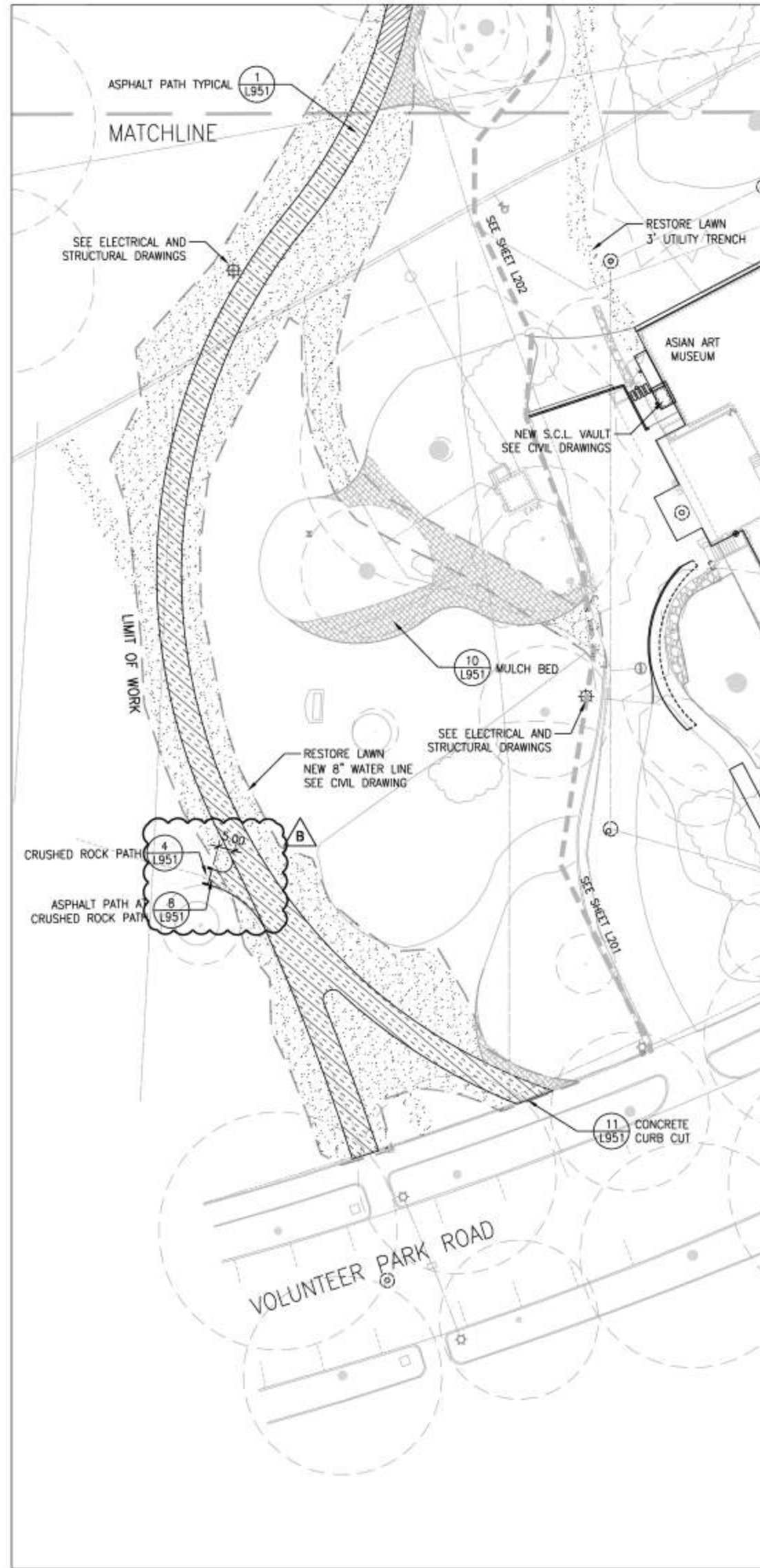
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Construction Documents

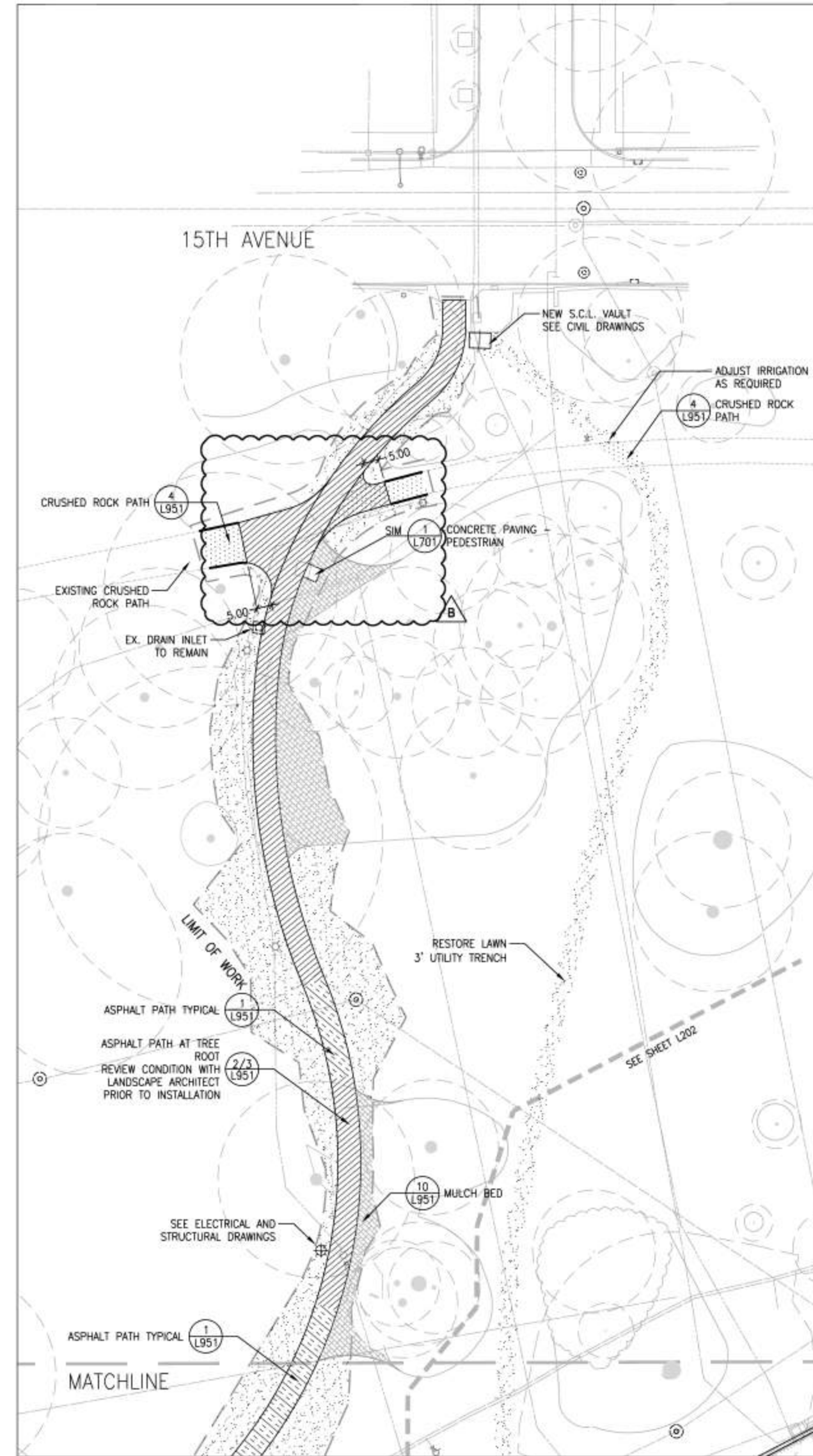
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LMN Proj No: 16028.01
Date: 9/1/2017

Sheet Title: Materials Plan - South
Sheet Number: L921

L921



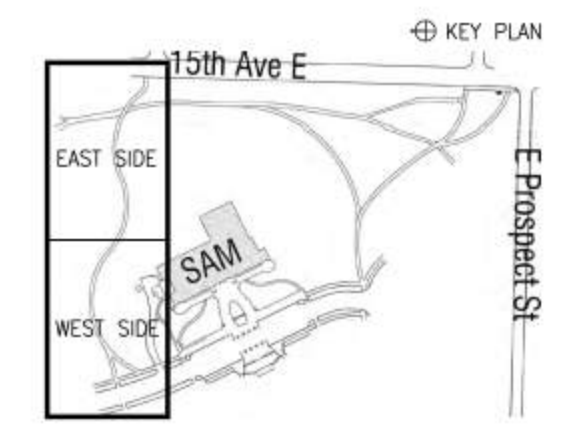
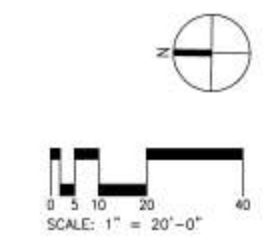
NORTH PATH - WEST SIDE
SCALE: 1" = 20'
Plan



NORTH PATH - EAST SIDE
SCALE: 1" = 20'
Plan

- LEGEND**
- ASPHALT PATH - TYPICAL
SEE DETAIL 1, SHEET 951
 - ASPHALT PATH - AT TREE ROOTS
EXTENTS ARE APPROXIMATE
REVIEW CONDITIONS WITH LANDSCAPE
ARCHITECT PRIOR TO INSTALLATION
SEE DETAIL 2/3, SHEET 951
 - CRUSHED ROCK PATH - TYPICAL
SEE DETAIL 4, SHEET 951
 - CRUSHED ROCK PATH - AT TREE ROOTS
EXTENTS ARE APPROXIMATE
REVIEW CONDITIONS WITH LANDSCAPE
ARCHITECT PRIOR TO INSTALLATION
SEE DETAIL 5/6, SHEET 951
 - LAWN
 - MULCH AREA
SEE DETAIL 10, SHEET 951
 - STEEL EDGE
 - RELOCATED LIGHT FIXTURE,
SEE ELECTRICAL AND STRUCTURAL DRAWINGS

- GENERAL NOTES**
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Construction Documents

Revisions

A	9/1/2017	Permit Corrections I
B	9/1/2017	Permit Corrections I

Sheet Title

Materials Plan - North

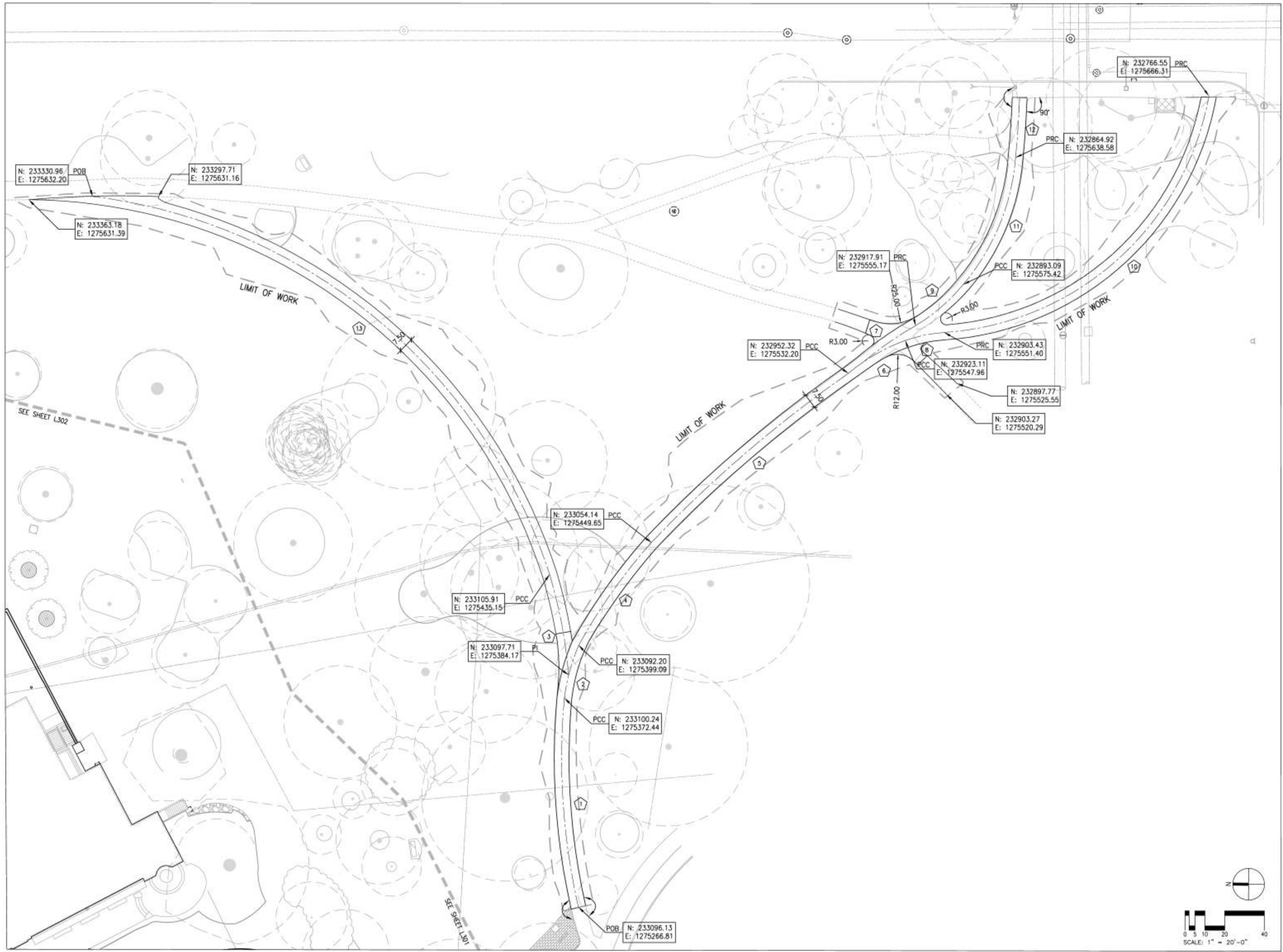
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L922

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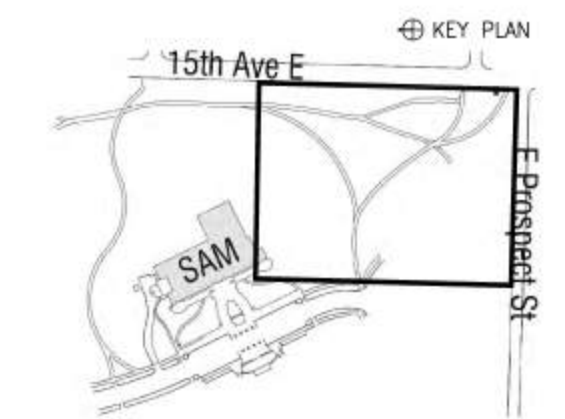
LEGEND

---	BASELINE
---	CENTERLINE
---	MATCHLINE
---	SHEET REFERENCE LINE
---	EXTENSION OF BUILDING FACE
U	ISOLATION JOINT
DJ	DOWELED ISOLATION JOINT
B	BEARING
C	CHORD LENGTH
EQ	EQUAL LENGTH OF CURVE
L	LENGTH OF CURVE ON CENTER
OC	POINT OF BEGINNING OF CURVATURE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PRC	POINT OF REVERSE CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
R	RADIUS
RP	RADIUS CENTER POINT
SP	SPACES
VF	VERIFY IN FIELD
—	ALIGN
⊕	RELOCATED LIGHT FIXTURE

- LAYOUT NOTES**
1. SITE SURVEY WAS PREPARED BY BRH ON FEBRUARY 13TH 2017. ALL COORDINATES SHOWN ON THE DRAWINGS ARE BASED UPON THE COORDINATE SYSTEM ESTABLISHED BY THE SURVEYOR. WALKER MACY ASSUMES NO RESPONSIBILITY FOR ACCURACY OF SURVEYED CONDITIONS AS SHOWN. SURVEY INFORMATION IS PROVIDED FOR REFERENCE ONLY.
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 3. ALL DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDINGS AND WALLS OR BACK OF CURBS, UNLESS OTHERWISE NOTED.
 4. ALL CURVED OBJECTS SHALL HAVE SMOOTH, CONTINUOUS CURVES WITH CONSISTENT RADI AS INDICATED. EACH CURVE SHALL MEET ADJACENT CURVES OR LINEAR SECTIONS ON THE TANGENT, UNLESS NOTED OTHERWISE.

CURVE DATA

CURVE NO.	CURVE RADIUS	CURVE LENGTH	CHORD LENGTH	INCLUDED ANGLE
1	337.37'	106.20'	105.74'	18.04°
2	97.58'	28.20'	27.84'	16.57°
3	250.02'	51.70'	51.64'	11.86°
4	287.74'	63.40'	63.34'	12.60°
5	657.81'	131.10'	130.86'	11.42°
6	95.42'	33.36'	33.31'	20.03°
7	182.94'	33.35'	41.49'	10.44°
8	73.75'	20.04'	19.97'	15.57°
9	92.35'	32.12'	31.88'	19.93°
10	145.39'	192.92'	178.21'	76.03°
11	112.79'	70.29'	69.16'	35.70°
12	480.99'	30.27'	30.27'	3.61°
13	278.25'	315.80'	299.12'	65.03°



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Construction Documents

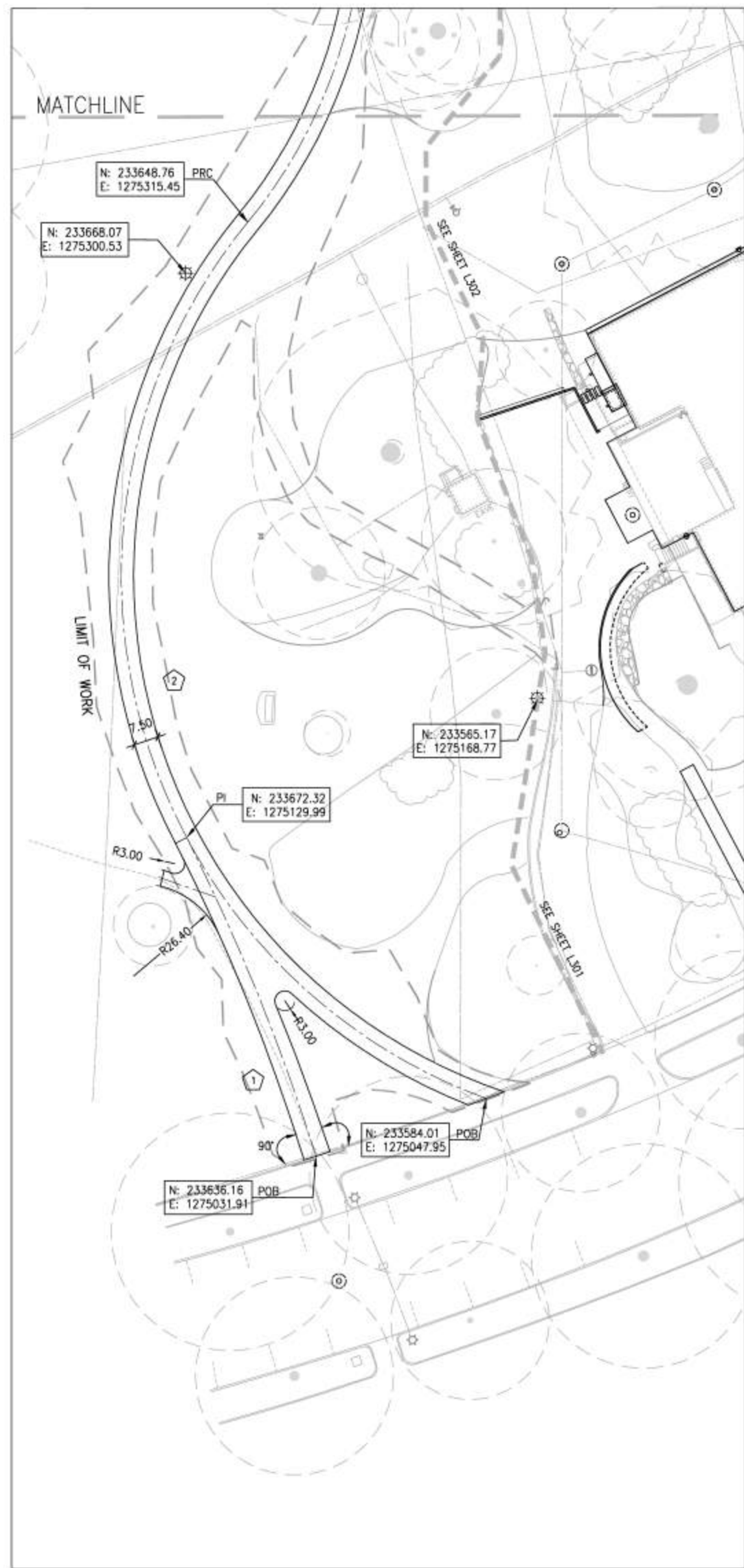
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Date: 9/1/2017

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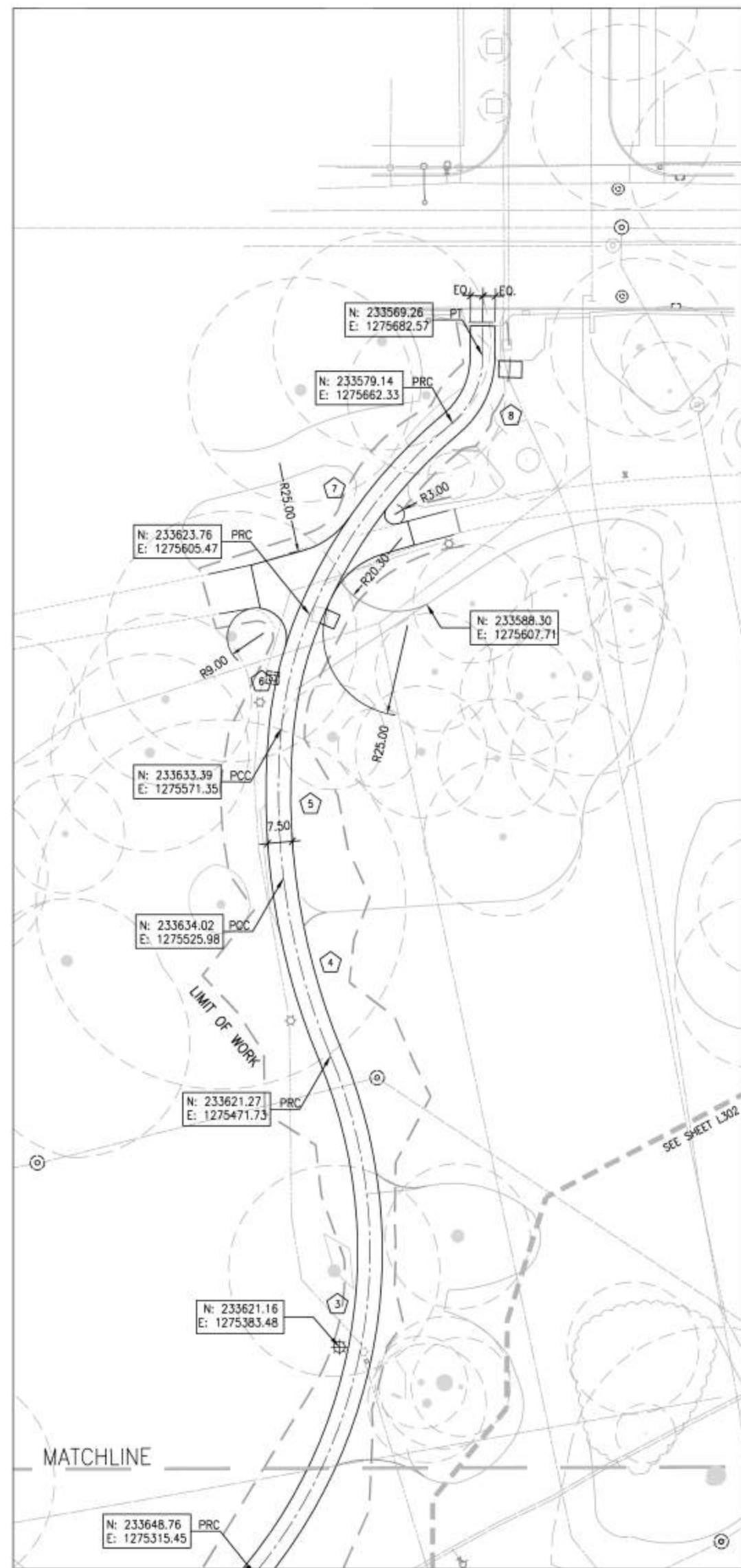
Layout Plan - South

Sheet Number

L931



NORTH PATH - WEST SIDE
SCALE: 1" = 20'



NORTH PATH - EAST SIDE
SCALE: 1" = 20'

LEGEND

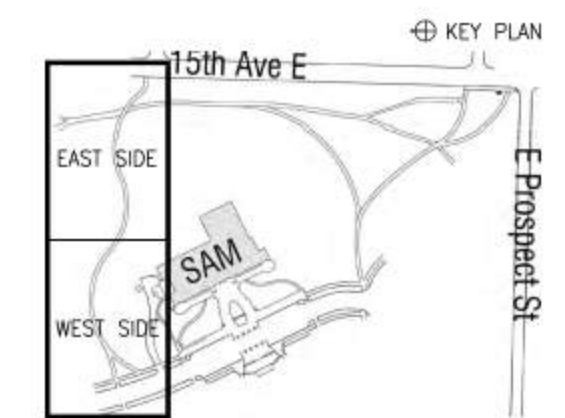
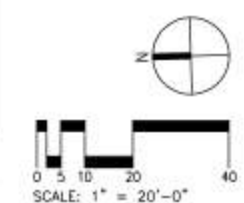
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CURVE DATA

CURVE NO.	CURVE RADIUS	CURVE LENGTH	CHORD LENGTH	INCLUDED ANGLE
1	628.50'	104.33'	104.17'	9.51°
2	168.75'	321.75'	275.18'	109.25°
3	153.75'	166.75'	158.68'	62.13°
4	203.75'	55.92'	55.73'	15.72°
5	210.85'	45.50'	45.37'	12.35°
6	116.25'	37.58'	35.45'	17.54°
7	153.75'	72.92'	72.26'	27.18°
8	26.25'	23.25'	22.54'	50.80°



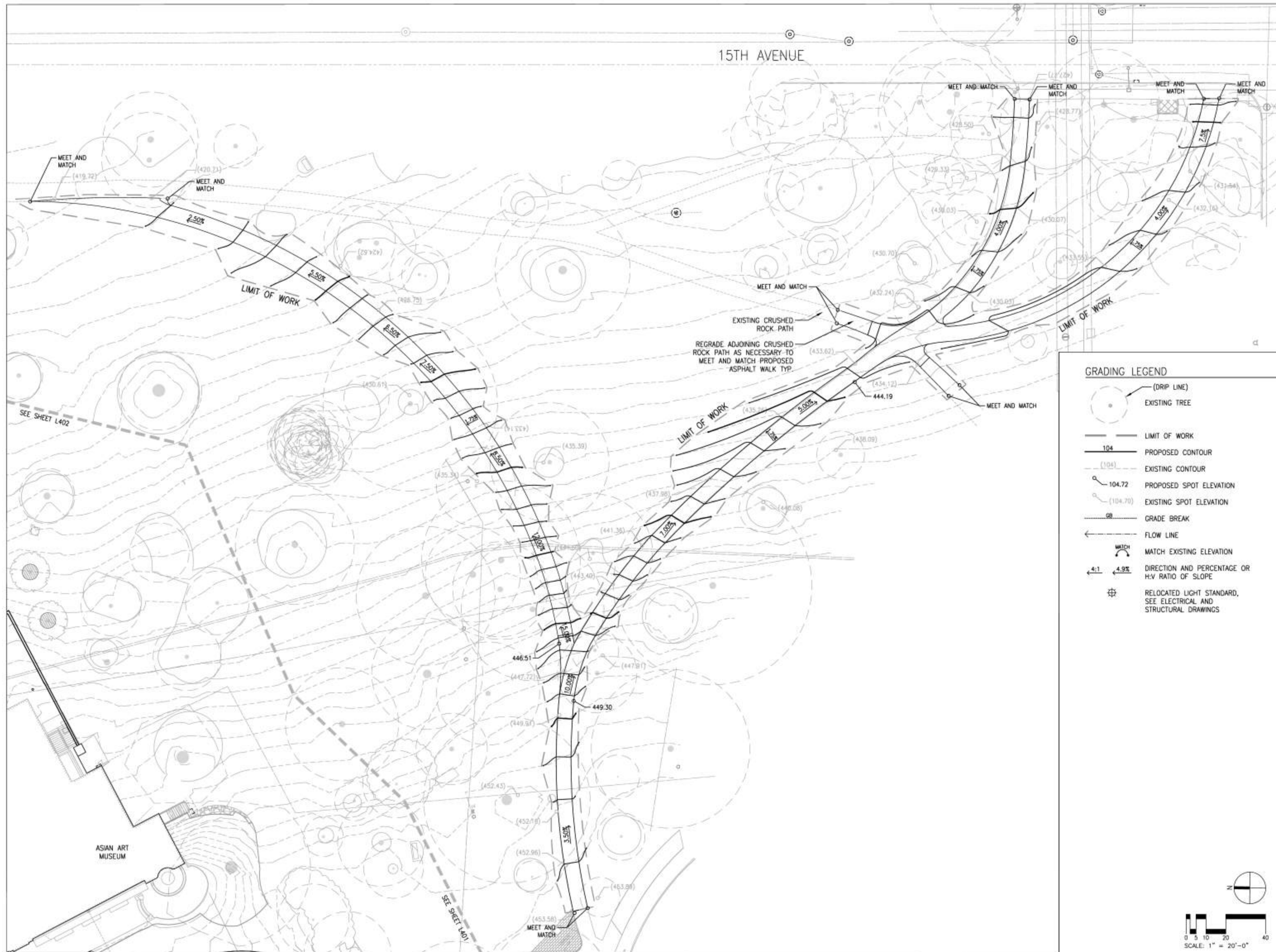
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Sheet Title: Layout Plan - North
Sheet Number: L932

L932

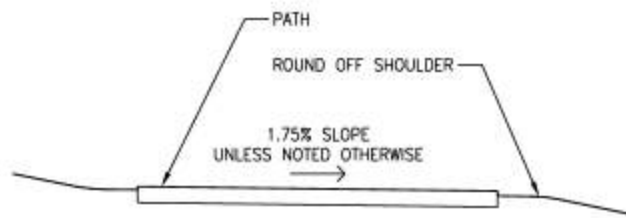


GRADING LEGEND

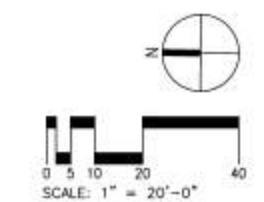
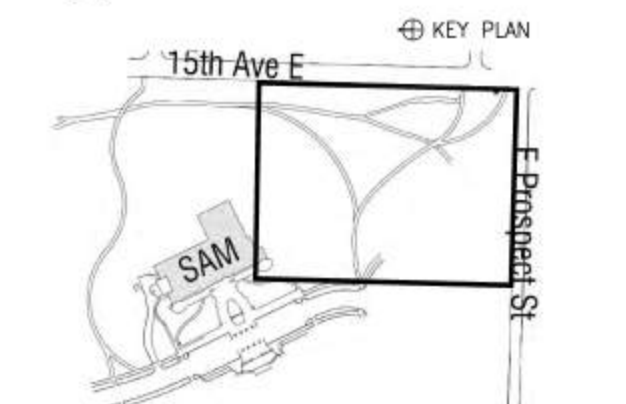
- (DRIP LINE)
- EXISTING TREE
- LIMIT OF WORK
- 104 PROPOSED CONTOUR
- (104) EXISTING CONTOUR
- 104.72 PROPOSED SPOT ELEVATION
- (104.70) EXISTING SPOT ELEVATION
- GR GRADE BREAK
- ← FLOW LINE
- MATCH EXISTING ELEVATION
- 4:1 4.9% DIRECTION AND PERCENTAGE OR H/V RATIO OF SLOPE
- RELOCATED LIGHT STANDARD, SEE ELECTRICAL AND STRUCTURAL DRAWINGS

GRADING NOTES

1. GRADING PLAN REPRESENTS DESIGN INTENT. CONSTRUCTION DETAILS FOR PATHWAYS SHALL SUPERCEDE GRADES AS SHOWN ON GRADING PLAN. ACTUAL FINISH GRADES OF PATHWAYS AND ADJACENT LANDSCAPE SHALL BE VERIFIED OR ADJUSTED PENDING REMOVAL OF EXISTING PATHS AND DISCOVERY OF SUBGRADE CONDITIONS. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN GRADING PLAN AND CONSTRUCTION DETAILS, PRIOR TO BEGINNING WORK.
2. VERIFY ACCURACY OF EXISTING GRADES AND INTERPOLATED ELEVATIONS PRIOR TO BEGINNING WORK. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCY PRIOR TO BEGINNING WORK.
3. PROTECT ALL TREES INDICATED TO REMAIN.
4. ALL PROPOSED GRADES ARE TO MEET AND BLEND IN WITH EXISTING GRADING AT PROJECT LIMIT, PROPERTY LINES, BUILDING LINES AND EXISTING CURBS.
5. 'ROUND OFF' ALL SHARP RIDGES EXISTING ON SITE WHETHER OR NOT SUCH CONDITIONS ARE INDICATED ON PLANS.
6. NOTIFY THE OWNER'S REPRESENTATIVE TO REVIEW ROUGH GRADES PRIOR TO PLACEMENT OF TOPSOIL; AND FINE GRADING PRIOR TO PLANTING.
7. ALL AREAS SHALL HAVE POSITIVE DRAINAGE TO APPROVED DRAINAGE STRUCTURES OR CONVEYANCES.
8. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT 0.5% SLOPE, MINIMUM.
9. ALL WALKWAYS AND PAVED AREAS SHALL HAVE SMOOTH AND CONTINUOUS ELEVATION CHANGES.
10. SET STRAIGHT GRADES BETWEEN GIVEN ELEVATIONS, UNLESS OTHERWISE INDICATED.
11. PROVIDE 2% MAX. SLOPE, PERPENDICULAR TO DIRECTION OF TRAVEL, ON ALL PAVED PEDESTRIAN SURFACES, UNLESS NOTED OTHERWISE.
12. GRADE BREAK LINES ARE SHOWN GRAPHICALLY TO ILLUSTRATE DRAINAGE PATTERNS AND ARE NOT TO BE INSTALLED AS ACTUAL JOINT LINES, EXCEPT WHERE THEY COINCIDE WITH PAVING JOINTS.
13. INSTALL DRAINS IN PAVING, SQUARE WITH AND ALIGNING TO PAVING JOINTS AS SHOWN.
14. VERIFY IN FIELD THAT AS-BUILT CONDITIONS MATCH PRECISE ELEVATIONS INDICATED ON PLANS.
15. SITE SURVEY WAS PREPARED BY BRM ON FEBRUARY 13TH, 2017. ALL GRADES SHOWN ON THE DRAWINGS ARE BASED UPON THE DATUM ESTABLISHED BY THE SURVEYOR. WALKER MACY ASSUMES NO RESPONSIBILITY FOR ACCURACY OF SURVEYED CONDITIONS AS SHOWN. SURVEY INFORMATION IS PROVIDED FOR REFERENCE ONLY. NOT ALL SURVEYED SPOT ELEVATIONS ARE SHOWN.
16. ALL VERTICAL CURVES SHALL BE SMOOTH AND CONTINUOUS.
17. NOTIFY LANDSCAPE ARCHITECT IF EXISTING SITE CONDITIONS REQUIRE GRADING TO OCCUR OUTSIDE DESIGNATED LIMIT OF WORK PRIOR TO DOING SO.
18. WHERE EXISTING PATHS ARE BEING REMOVED AND REDUCED WITH LAWN OR PLANTING, RESTORE GRADE TO MATCH ORIGINAL AND ADJACENT FINISH GRADES.



1 PATH GRADING
SCALE: 1/2" = 1'
SECTION



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Revisions

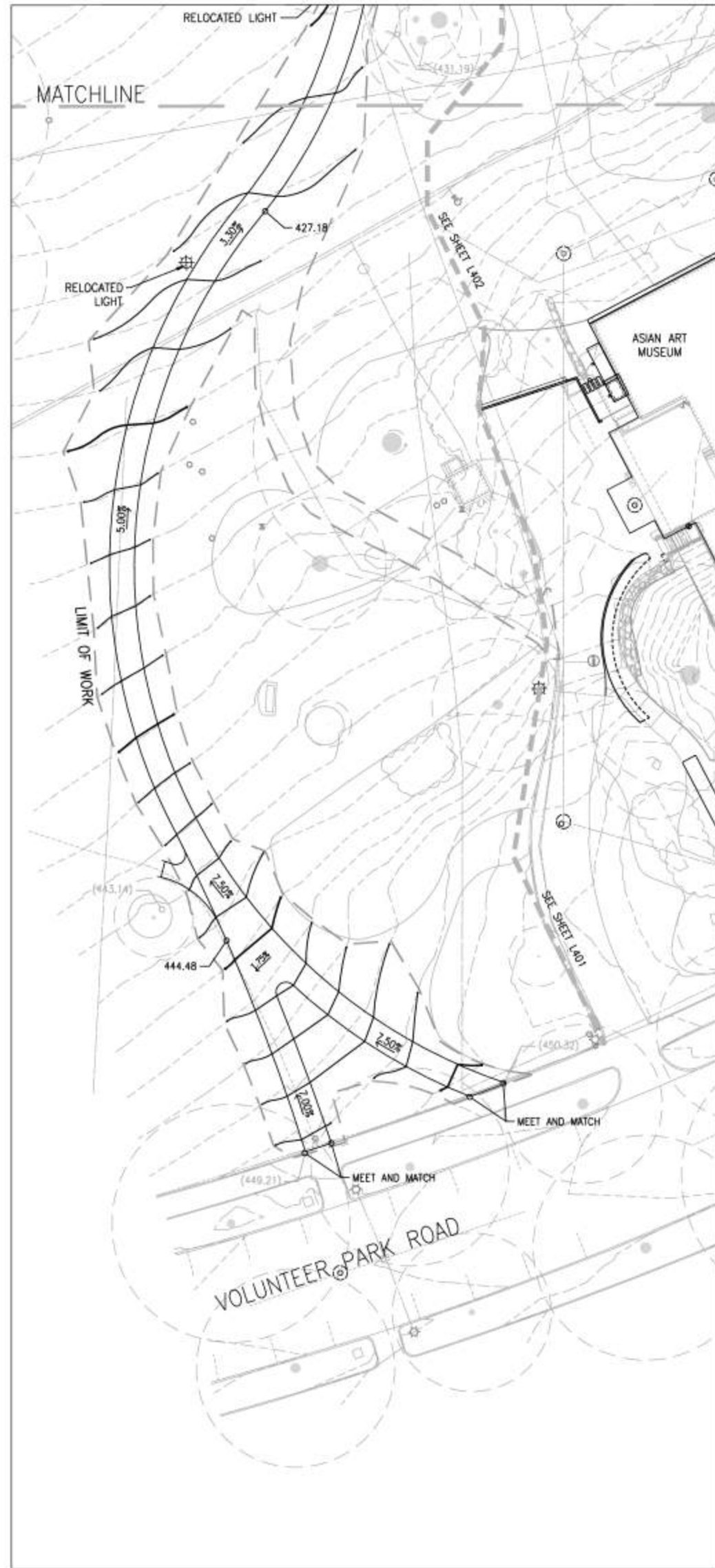
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Drawn: 184 / AMS
Checked: C.J./AMS
LMN Proj No: 16028.01
Date: 9/1/2017

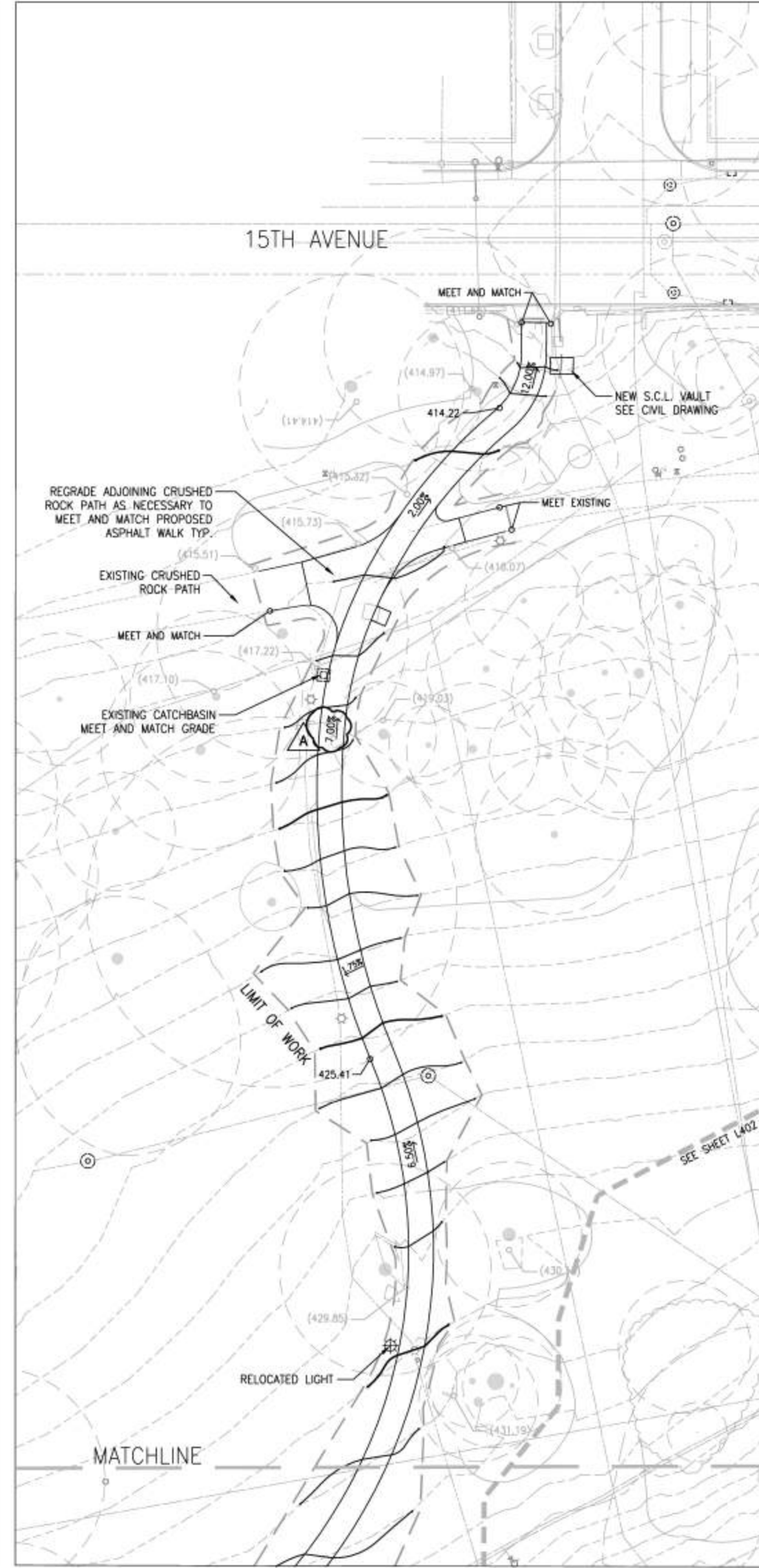
Sheet Title	Sheet Number
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Grading Plan - South

L941



NORTH PATH - WEST SIDE
SCALE: 1" = 20'

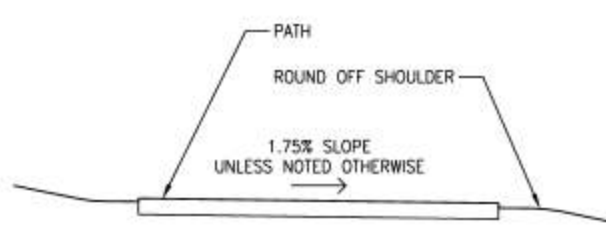


NORTH PATH - EAST SIDE
SCALE: 1" = 20'

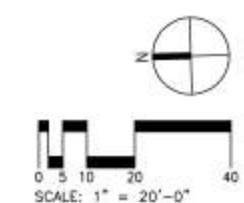
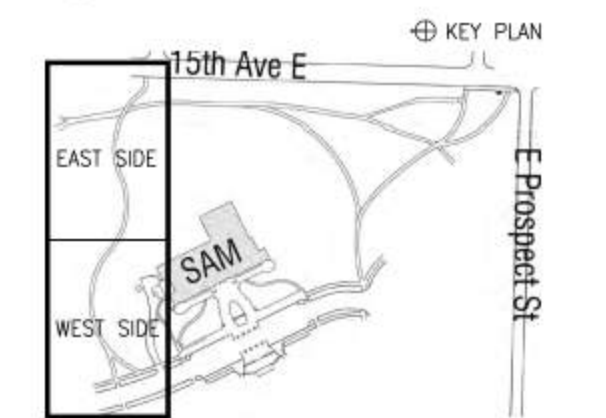
GRADING LEGEND

- (DRIP LINE)
- EXISTING TREE
- LIMIT OF WORK
- PROPOSED CONTOUR
- EXISTING CONTOUR
- PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- GRADE BREAK
- FLOW LINE
- MATCH EXISTING ELEVATION
- DIRECTION AND PERCENTAGE OR H/V RATIO OF SLOPE
- RELOCATED LIGHT STANDARD, SEE ELECTRICAL AND STRUCTURAL DRAWINGS

- GRADING NOTES**
1. GRADING PLAN REPRESENTS DESIGN INTENT. CONSTRUCTION DETAILS FOR PATHWAYS SHALL SUPERCEDE GRADES AS SHOWN ON GRADING PLAN. ACTUAL FINISH GRADES OF PATHWAYS AND ADJACENT LANDSCAPE SHALL BE VERIFIED OR ADJUSTED PENDING REMOVAL OF EXISTING PATHS AND DISCOVERY OF SUBGRADE CONDITIONS. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN GRADING PLAN AND CONSTRUCTION DETAILS, PRIOR TO BEGINNING WORK.
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 18. WHERE EXISTING PATHS ARE BEING REMOVED AND REDUCED WITH LAWN OR PLANTING, RESTORE GRADE TO MATCH ORIGINAL AND ADJACENT FINISH GRADES.



1 PATH GRADING
SCALE: 1/2" = 1'



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STATE OF WASHINGTON
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LANDSCAPE ARCHITECT

CHRISTOPHER S. JONES
CERTIFICATE NO. 1271

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Revisions

A	9/1/2017	Permit Corrections I
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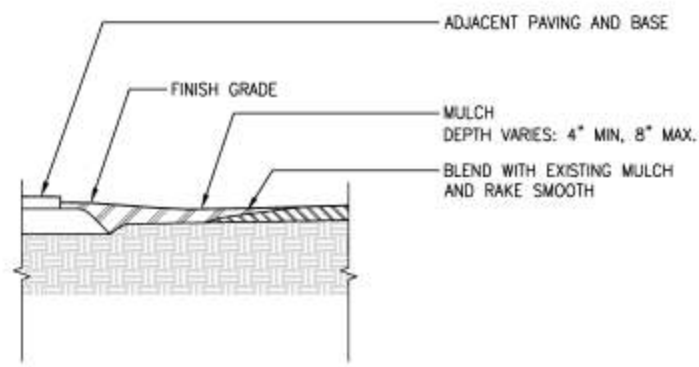
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Date	9/1/2017

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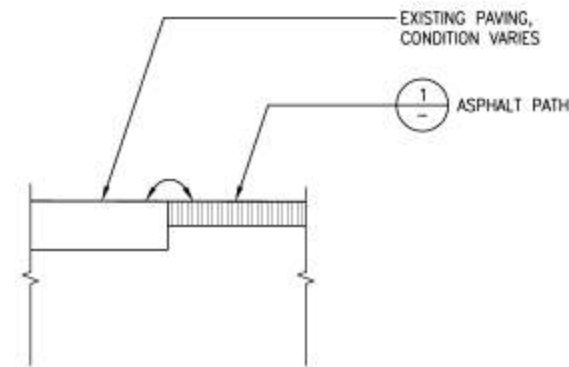
Grading Plan - North

Sheet Number

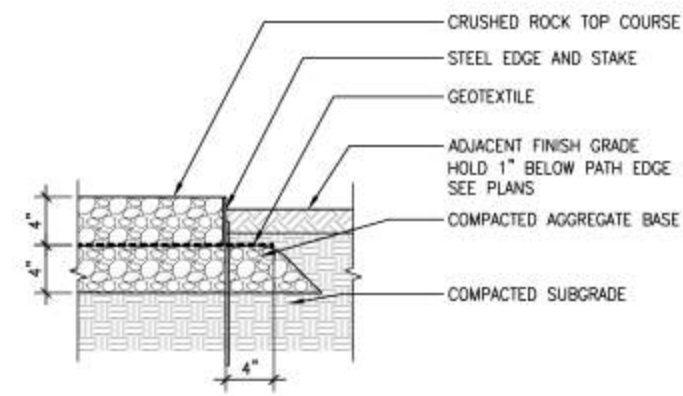
L942



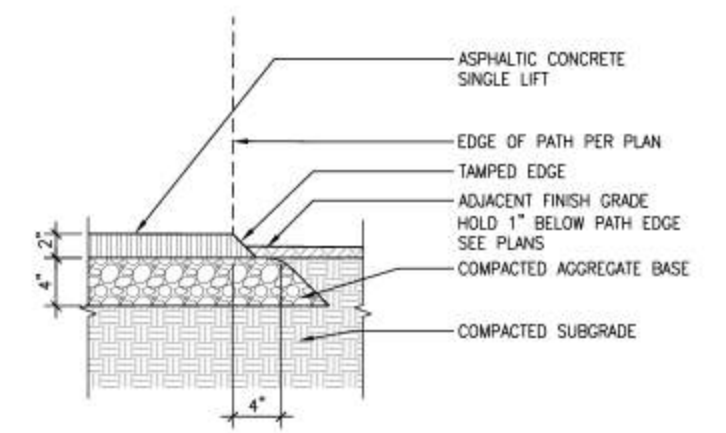
10 MULCH BED
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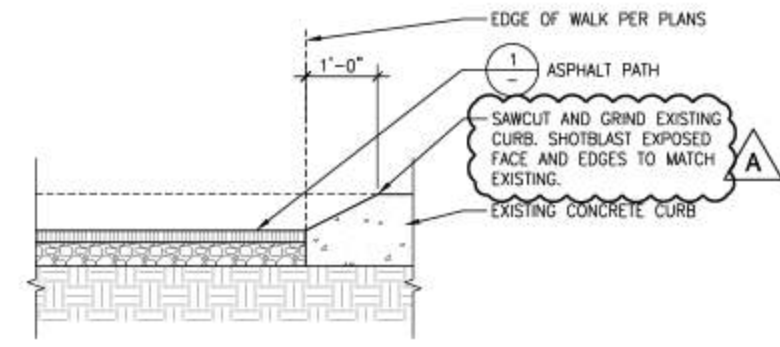
7 NEW PATH AT EXISTING PATH - ASPHALT
SCALE: 1 1/2" = 1'-0" SECTION



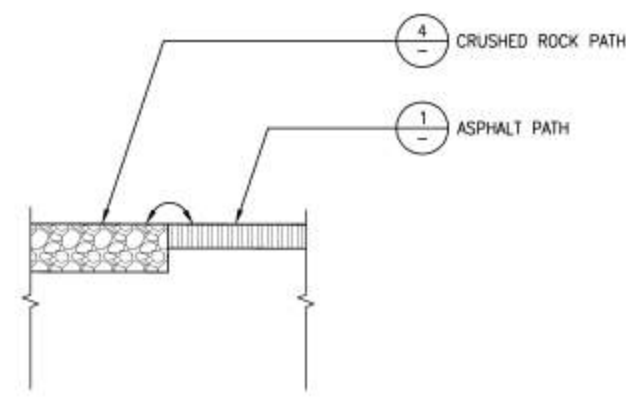
4 CRUSHED ROCK PATH
SCALE: 1 1/2" = 1'-0" SECTION



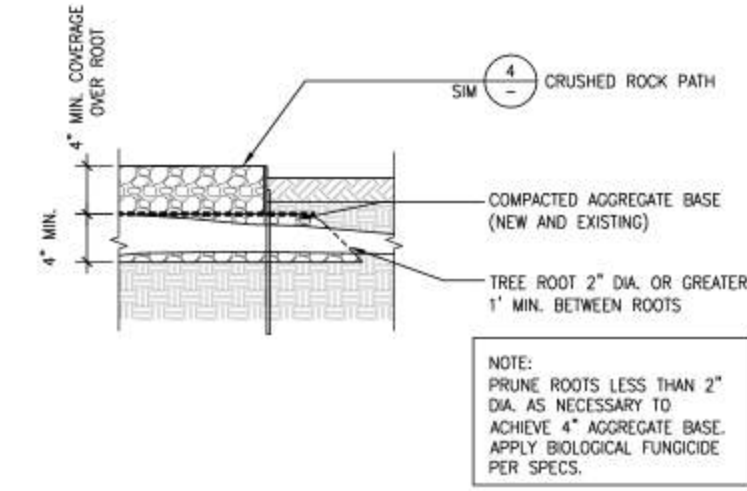
1 ASPHALT PATH - TYPICAL
SCALE: 1 1/2" = 1'-0" SECTION



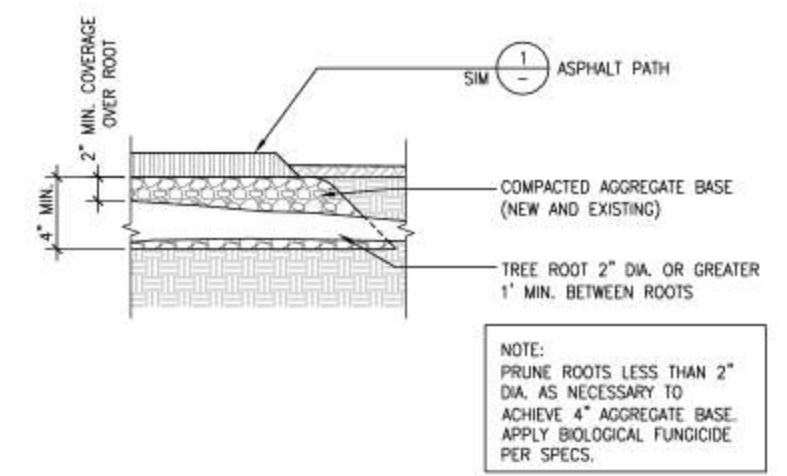
11 CONCRETE CURB CUT
SCALE: 3/4" = 1'-0" SECTION



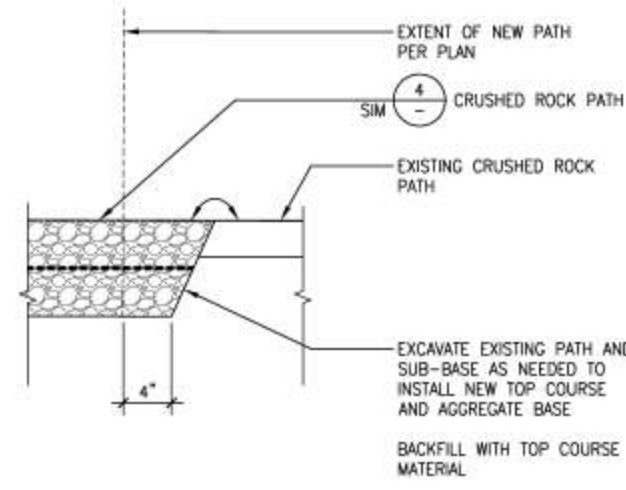
8 ASPHALT PATH AT CRUSHED ROCK PATH
SCALE: 1 1/2" = 1'-0" SECTION



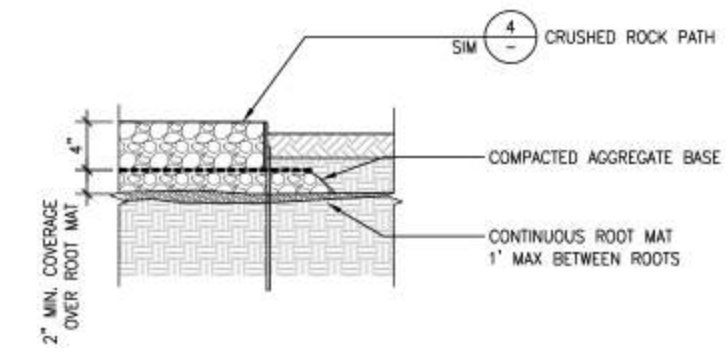
5 CRUSHED ROCK PATH AT TREE ROOT 1
SCALE: 1 1/2" = 1'-0" SECTION



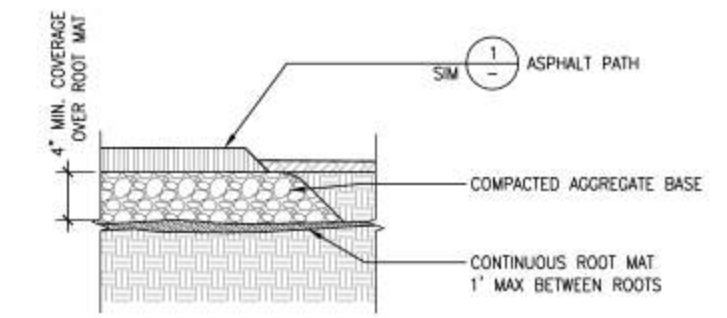
2 ASPHALT PATH AT TREE ROOTS 1
SCALE: 1 1/2" = 1'-0" SECTION



9 NEW PATH AT EXISTING PATH - CRUSHED ROCK
SCALE: 1 1/2" = 1'-0" SECTION



6 CRUSHED ROCK PATH AT TREE ROOTS 2
SCALE: 1 1/2" = 1'-0" SECTION

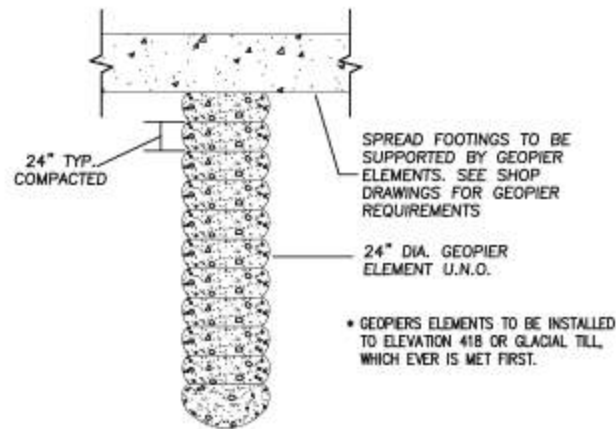


3 ASPHALT PATH AT TREE ROOTS 2
SCALE: 1 1/2" = 1'-0" SECTION

Printed

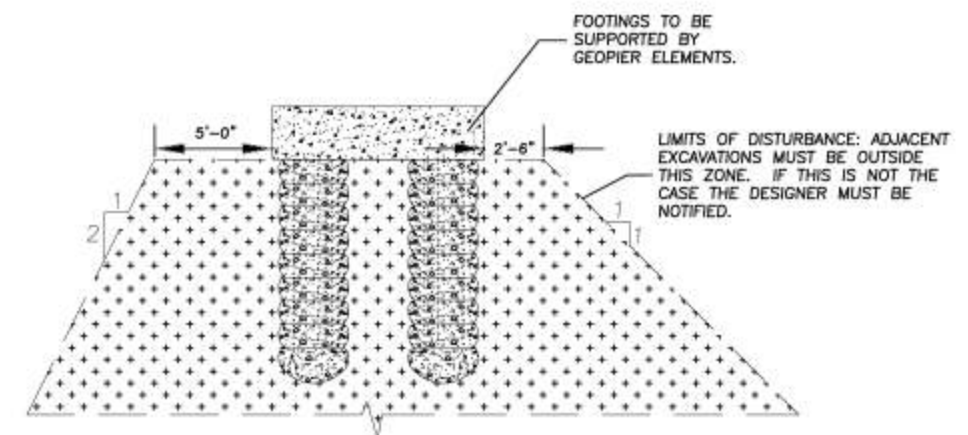
RAP ELEMENT FOUNDATION CONSTRUCTION NOTES

- RAMMED AGGREGATE PIER (RAP) FOUNDATION SUPPORT IS AS DESIGNED BY GEOPIER FOUNDATION COMPANY, INC., DAVIDSON, NORTH CAROLINA (DESIGNER).
- RAP ELEMENT LAYOUT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR (GC). GEOPIER ELEMENT SHALL BE INSTALLED IN THE FIELD WITHIN 6-INCHES OF LOCATION SHOWN ON THESE PLANS.
- A QUALIFIED, FULL-TIME QUALITY CONTROL (QC) REPRESENTATIVE PROVIDED BY THE RAP INSTALLER (THE INSTALLER) SHALL BE RESPONSIBLE FOR INSTALLATION OF THE RAP ELEMENTS IN ACCORDANCE WITH THE DESIGN, AND SHALL REPORT ALL GEOPIER FOUNDATION CONSTRUCTION ACTIVITIES TO THE DESIGNER. IF AUTHORIZED BY THE OWNER, THE QC REPRESENTATIVE SHALL COORDINATE QC ACTIVITIES WITH THE TESTING AGENCY HIRED BY THE OWNER. UNDER NO CIRCUMSTANCES SHALL THE TESTING AGENCY DIRECT RAP INSTALLATION PROCEDURES.
- RAP ELEMENTS SHALL BE BASED ON THE FOLLOWING CRITERIA UNLESS OTHERWISE APPROVED IN WRITING BY THE DESIGNER:
 - RAP ELEMENTS SHALL BE WITHIN 3 INCHES OR DEEPER THAN THE DEPTHS SHOWN ON THE PLANS.
 - AVERAGE COMPACTED LIFT THICKNESS DURING EACH DAYS PRODUCTION SHALL BE APPROXIMATELY 24 INCHES.
 - A BST SHALL BE PERFORMED ON THE FIRST FIVE RAP INSTALLED. RESULTS OF THE INITIAL BST SHOULD BE PROVIDED TO THE DESIGNER FOR REVIEW AND ESTABLISHMENT OF ACCEPTANCE CRITERIA AND FREQUENCY OF BST. THE FREQUENCY OF BST MAY VARY DEPENDING ON THE SOIL CONDITIONS; HOWEVER, BST SHALL BE PERFORMED ON NO LESS THAN 10% OF PRODUCTION RAP.
 - RAP ELEMENT AGGREGATE SHALL CONSIST OF TYPE I GRADE B IN GENERAL ACCORDANCE WITH ASTM D-1241-66, OR APPROVED BY GEOPIER DESIGNER AND SUCCESSFULLY USED IN THE MODULUS TEST.
- WHEN OBSTRUCTIONS ARE ENCOUNTERED THAT CANNOT BE REMOVED WITH CONVENTIONAL RAP INSTALLATION EQUIPMENT, THE GC SHALL BE RESPONSIBLE FOR REMOVING THE OBSTRUCTIONS. IF THE GC DOES NOT DO SO IN A TIMELY MANNER THAT DOES NOT INTERRUPT RAP PRODUCTION, THE INSTALLER MAY REMOVE OBSTRUCTION(S) AND SHALL BE REIMBURSED FOR COSTS INCURRED, INCLUDING LABOR, EQUIPMENT, AND MATERIALS. IN THE EVENT OBSTRUCTIONS ARE ENCOUNTERED BELOW THE DESIGN BOTTOM OF FOOTING ELEVATION THE OBSTRUCTION SHALL BE REMOVED AS OUTLINED ABOVE. THE RESULTING EXCAVATION SHALL THEN BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THE AREA SHALL BE TESTED BY THE OWNER'S TESTING AGENCY AND THE COMPACTION TEST RESULTS SHALL BE SUBMITTED TO THE INSTALLER AND THE DESIGNER.
- RAP ELEMENTS NOT MEETING THE REQUIREMENTS DEFINED IN THE DESIGN AND MODULUS TEST SHALL BE RE-INSTALLED TO MEET PROJECT REQUIREMENTS UNLESS OTHERWISE APPROVED IN WRITING BY THE DESIGNER.
- FOOTING ELEVATIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPORTED IN WRITING TO THE INSTALLER'S QC REPRESENTATIVE PRIOR TO INSTALLING RAP ELEMENTS.
- UTILITY LOCATIONS ARE THE RESPONSIBILITY OF THE GC. THE DESIGNER SHALL BE NOTIFIED OF ANY CONFLICTS WITH RAP LOCATIONS SHOWN ON THE PLANS. NEW UTILITIES EXCAVATIONS SHALL BE LIMITED TO THE ZONE DEPICTING ON DETAIL 1 ON THIS SHEET. IF EXCAVATIONS ARE PLANNED WITHIN THE RAP "NO DIG" ZONE, THE DESIGNER SHOULD BE NOTIFIED IMMEDIATELY TO DISCUSS EXCAVATION OPTIONS.
- RAP ELEMENTS ARE LOCATED AT THE INTERSECTION OF REFERENCE GRID LINES OR AT THE CENTERLINE OF STRIP FOOTINGS UNLESS DIMENSIONED OTHERWISE.
- AFTER COMPLETION OF RAP INSTALLATIONS, THE GC IS RESPONSIBLE FOR PROTECTION OF THE WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, PROPER SITE DRAINAGE TO PREVENT PONDING OF WATER ABOVE THE RAP ELEMENTS AND APPROPRIATE CONTROL AND COORDINATION OF EARTHWORK AND ANY SUBSEQUENT DRILL ACTIVITIES SUCH AS ELEVATOR SHAFT CONSTRUCTION, TO PREVENT DAMAGE TO INSTALLED RAP ELEMENTS.
- ALL RAP ELEMENTS HAVE A MINIMUM NOMINAL TOP DIAMETER OF 24 INCHES WITH COMPACTED 24 INCH LIFTS. GEOPIERS ELEMENTS TO BE INSTALLED TO ELEVATION 418 OR GLACIAL TILL, WHICH EVER IS MET FIRST.
- THESE DRAWINGS ARE BASED ON THE STRUCTURAL DRAWINGS PROVIDED BY MAGNUSSON KLEMENCIC ASSOCIATES. THE RAP ELEMENT LAYOUT LOCATION PLAN AND FOOTING DETAILS PLAN ARE FOR RAP ELEMENT NUMBER, LOCATION, AND LAYOUT ONLY. FOOTING LOCATIONS, SIZES, AND ORIENTATION SHOWN ON THESE PLANS ARE FOR INFORMATION ONLY. PLEASE REFER TO STRUCTURAL PLANS FOR SPECIFIC FOUNDATION DIMENSIONS AND LOCATION. THE DESIGNER ACCEPTS NO RESPONSIBILITY FOR LOCATION OF FOOTINGS SHOWN ON THESE PLANS. THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY IF INFORMATION ON THESE PLANS CONFLICTS WITH STRUCTURAL OR ARCHITECTURAL DRAWINGS.
- THE RAP FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INFORMATION PROVIDED IN THE SUBSURFACE EXPLORATION BY HAYRE MCELROY & ASSOCIATES, REPORT DATE JULY 29, 2016. GEOPIER FOUNDATION COMPANY, INC., HAS RELIED ON THIS INFORMATION AND WE HAVE NO REASON TO SUSPECT ANY OF THE INFORMATION IN THE REPORT IS IN ERROR. GEOPIER FOUNDATION COMPANY, INC. IS NOT RESPONSIBLE FOR ERRORS OR OMISSIONS IN THE REPORT THAT MAY AFFECT THE PARAMETER VALUES IN OUR DESIGN. IF THE SUBSURFACE OR SITE CONDITIONS DIFFER FROM THOSE UTILIZED IN THE DESIGN THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY.
- RAP FOUNDATION DESIGN LOADS ARE BASED ON THE DESIGN INFORMATION PROVIDED TO US BY MAGNUSSON KLEMENCIC & ASSOCIATES. IN THE EVENT THE STRUCTURAL LOADS VARY THE DESIGNER SHALL BE NOTIFIED.



1 TYPICAL GEOPIER ELEMENT
NOT TO SCALE

GEOPIER LEGEND
① GEOPIER GP3 - 24" DIAMETER



2 ADJACENT EXCAVATION DETAIL
NOT TO SCALE

CONCRETE FOOTING CONSTRUCTION SUPPORTED BY RAP NOTES

- ALL EXCAVATIONS FOR FOOTINGS SUPPORTED BY RAMMED AGGREGATE PIERS SHALL BE PREPARED IN THE FOLLOWING MANNER BY THE GC: OVEREXCAVATION BELOW THE BOTTOM OF FOOTING SHALL BE LIMITED TO THREE INCHES. THIS INCLUDES LIMITING THE TEETH OF EXCAVATORS FROM OVEREXCAVATION BEYOND THREE INCHES BELOW THE FOOTING ELEVATION.
- FOOTINGS SHALL BE POURED AS SOON AS POSSIBLE FOLLOWING FOOTING EXCAVATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT FOOTING BEARING SURFACES FROM WET WEATHER AND DISTURBANCE. A "MUD MAT" (3 INCH THICKNESS OF LEAN CONCRETE) OR COMPACTED CRUSHED ROCK SURFACE IS RECOMMENDED TO PROTECT BEARING SURFACES.
- PRIOR TO CONCRETE OR MUD MAT PLACEMENT, THE TOP OF THE EXCAVATED SOIL AND RAMMED AGGREGATE PIERS SHALL BE COMPACTED WITH A STANDARD, HAND-OPERATED IMPACT COMPACTOR (I.E. JUMPING JACK COMPACTOR). COMPACTION SHALL BE PERFORMED OVER THE ENTIRE FOOTING SUBGRADE TO COMPACT ANY LOOSE SURFACE SOIL AND LOOSE SURFACE PIER AGGREGATE.
- WATER SHALL NOT BE ALLOWED TO ACCUMULATE IN THE FOOTING EXCAVATIONS PRIOR TO CONCRETE PLACEMENT OR ALLOWED TO ACCUMULATE OVER THE POURED FOOTING.
- EXCAVATION AND SURFACE COMPACTION OF ALL FOOTING SUBGRADES SHALL BE THE RESPONSIBILITY OF THE GC.
- THE TESTING AGENCY SHALL INSPECT EACH FOOTING AND APPROVE IT IN WRITING ON THE SAME DAY THAT THE CONCRETE OR MUD MAT IS PLACED IN THE FOOTING EXCAVATION. THE APPROVAL SHALL STATE THAT ALL FOOTING BOTTOMS INCLUDING MATRIX SOILS AND RAP TOPS HAVE NOT BEEN OVEREXCAVATED MORE THAN THREE-INCHES BELOW THE BOTTOM OF THE FOOTING, HAVE BEEN KEPT FREE OF WATER ACCUMULATION, AND HAVE BEEN REASONABLY DENSIFIED WITH A HAND-HELD MECHANICAL IMPACT COMPACTOR ON THE SAME DAY THAT THE CONCRETE WAS PLACED.
- THE GC IS RESPONSIBLE FOR MEASURING TOP OF FOOTING ELEVATIONS TO ACCURACY OF 0.01 FEET. MEASUREMENTS SHALL BE TAKEN BY A LICENSED PROFESSIONAL SURVEYOR BEFORE LOADS ARE APPLIED TO THE FOOTINGS.
- IN THE EVENT THAT FOOTING BOTTOM PREPARATIONS, AS DESCRIBED ABOVE, ARE NOT PERFORMED OR DOCUMENTED IN ACCORDANCE WITH THIS SECTION, ANY WRITTEN OR IMPLIED WARRANTY WITH RESPECT TO GEOPIER FOUNDATION PERFORMANCE CAN BE CONSIDERED VOID.



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NOTE: GEOPIER DESIGN DOCUMENTS AND PLANS ARE ONLY VALID IF INSTALLED BY A LICENSED GEOPIER INSTALLER.

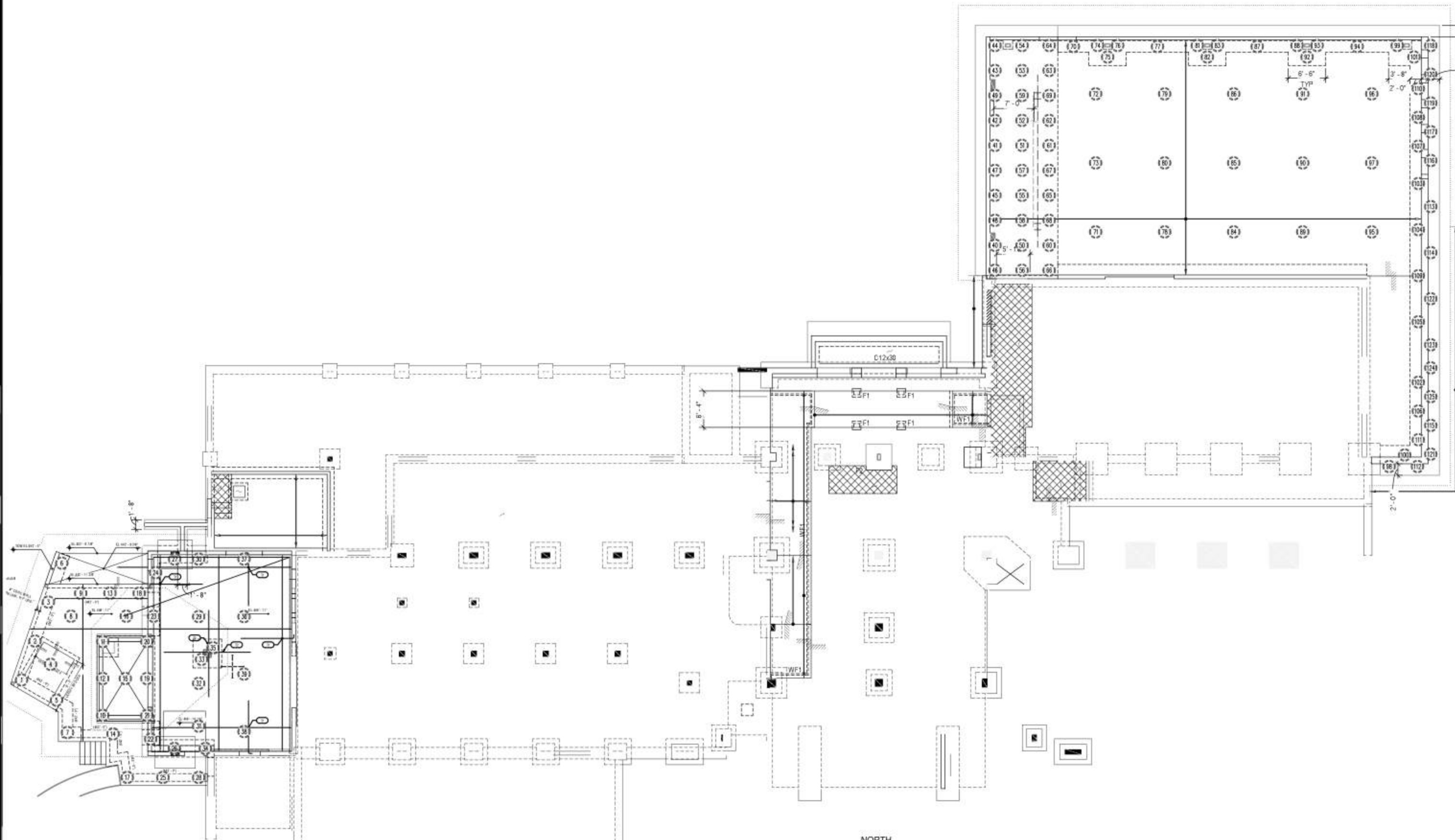
REV	DESCRIPTION	DATE	APPROVED
1	CONSTRUCTION F.I. GEOTECHNICAL REPORT DATE	8/9/17	



ASIAN ART MUSEUM EXPANSION
BELLEVUE, WASHINGTON

GEOPIER NORTHWEST
 40 Lake Bellevue, Suite 100
 Bellevue, WA 98005
 ph: 425-646-2995
 fax: 425-646-3118

PROJECT NUMBER: 17-GNW-00774
 DATE: 8/13/2017
 SHEET NUMBER: GP0.1



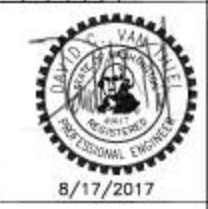
FOUNDATION PLAN
1/8" = 1'-0"



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- GEOPIER PLAN NOTES:**
1. THIS DRAWING IS BASED ON STRUCTURAL DRAWINGS PROVIDED BY MAGNUSSON KLEMENCIC ASSOCIATES.
 2. FOOTING OUTLINES ARE FOR INFORMATION ONLY. SEE STRUCTURAL AND/OR ARCHITECTURAL PLANS FOR FOOTING DIMENSIONS AND DETAILS.
 3. FOOTING LOCATIONS SHALL BE IN ACCORDANCE WITH STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS, DIMENSIONS, AND DETAILS.
 4. GEOPIER ELEMENTS UNDER WALLS AND COLUMNS SHALL BE CENTERED UNDER FOOTINGS AS SHOWN, DIMENSIONED FROM CONTROL POINTS ESTABLISHED FROM STRUCTURAL AND/OR ARCHITECTURAL PLANS.

ZONE	REV	DESCRIPTION	DATE	APPROVED
		BY CORRECTION #1	8/17/2017	



ASIAN ART MUSEUM EXPANSION
BELLEVUE, WASHINGTON

PROJECT NUMBER
17-GNW-00774

DATE
8/13/2017

SHEET NUMBER
GP1.1



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PROJECT NUMBER
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DATE
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SHEET NUMBER
GP1.1

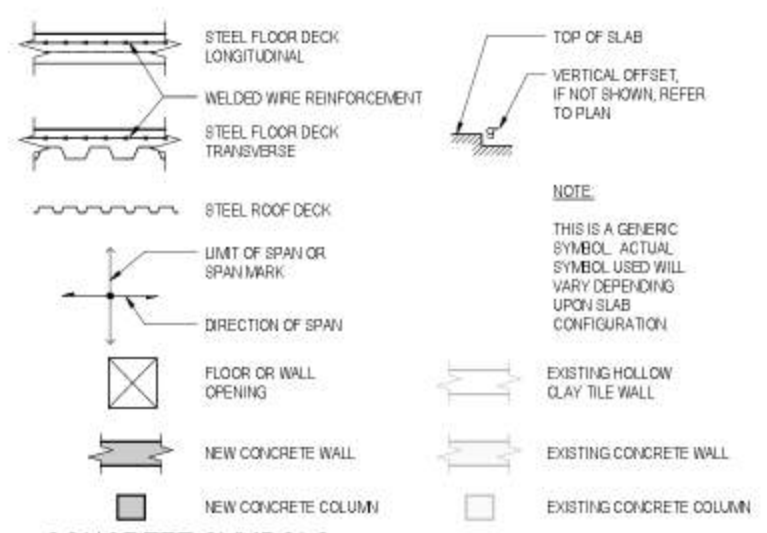
geopier

GEOPIER NORTHWEST
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AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AEIS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AGCR	ASSOCIATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPD	APPROVED
APPROX	APPROXIMATE
AR	ANCHOR RODS
ARCH	ARCHITECTURAL/ARCHITECT
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWG	AMERICAN WELDING SOCIETY
BAL	BALANCE
BC	BRACED FRAME
BLDG	BUILDING
BLK	BLOCK, BLOCKING
BM	BEAM
BRU	BRICK MASONRY UNIT
BSD	BOTTOM OF STEEL, BOTTOM (WELD)
BOT	BOTTOM
BRCG	BRACING
BRG	BEARING
BRKT	BRACKET
BSMT	BASEMENT
BWN	BETWEEN
BU	BUILT UP
C	CAMBER
CANT	STANDARD CHANNEL
CF	CANTILEVER
CD	CENTER TO CENTER
CG	CONTROLLED DENSITY FILL
CG	CENTER OF GRAVITY
CP	CAST-IN-PLACE
CJ	COMPLETE JOINT
CJP	COMPLETE JOINT PENETRATION WELD
CL	CENTERLINE
CLR	CLEARANCE, CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSION
CONC	CONCRETE
CONFG	CONFIGURATION
CONN	CONNECTION, CONNECT
CONST	CONSTRUCTION
CONT	CONTINUE, CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE, COORDINATION
CORR	CORRUPTED
CP, CJP	COMPLETE JOINT PENETRATION WELD
CTR	CENTER
CTSK	COUNTERSINK, COUNTERSUNK
CU	CUBIC
db	NOMINAL BAR DIAMETER (INCHES)
DBA	DEFORCED BAR ANCHOR
DBL	DOUBLE
DC	DEMAND CRITICAL WELD
DEG	DEGREE
DEM	DEMOLISH, DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DIAM	DIAMETER
DIAG	DIAGONAL
DIPH	DIAPHRAGM
DICA	DRILLED-IN CONCRETE ANCHOR
DIM	DIMENSION
DISC	DISCONTINUED, DISCONTINUOUS
DL	DEAD LOAD
DN	DOWN
DO	DICTIONARY
DS	DRAG STRUT
DSA	DECK SUPPORT ANGLE
DWG	DRAWING
DWL	DOWEL
(E)	EXISTING
E-W	EAST-WEST
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDDED
ENGR	ENGINEER
EQ	EQUAL, EARTHQUAKE
EQUIP	EQUIPMENT
ES	EACH SIDE
ETC	ET CETERA
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR

12 ABBREVIATIONS

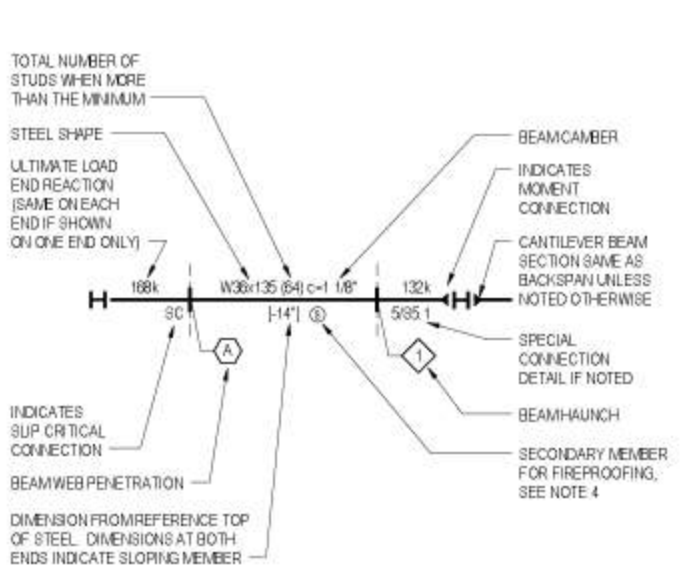


17 CONCRETE SYMBOLS



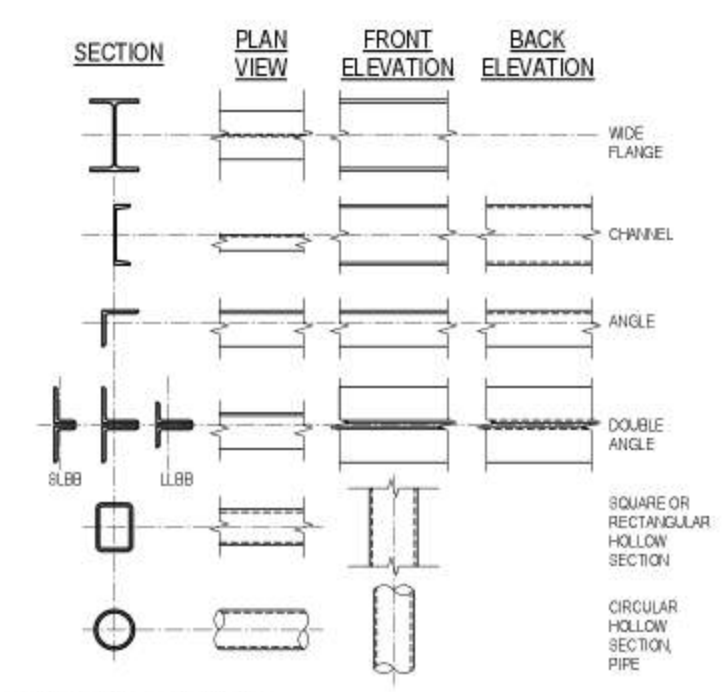
18 REINFORCING BAR DEVELOPMENT AND SPLICE LENGTH TABLES

18' = 1'0"

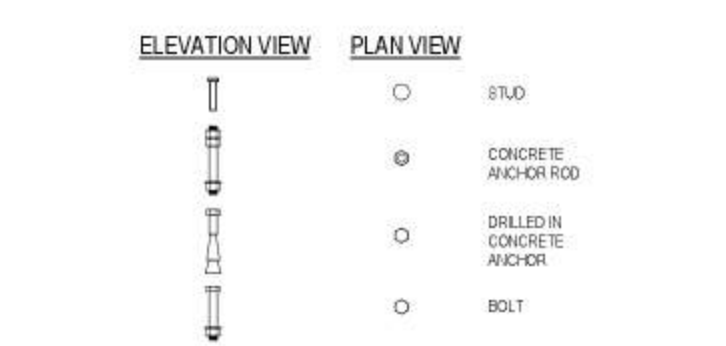


- NOTES:
- NO REACTION AT EITHER END INDICATES MINIMUM CONNECTION FOR BEAM DEPTH. SEE "GENERAL NOTES FOR STEEL CONNECTIONS"
 - SPACE STUDS PER "TYPICAL SHEAR STUD PLACEMENT" DETAIL
 - "M" IN PLACE OF STEEL SHAPE INDICATES WIDEX12 WITH MINIMUM CONNECTION
 - BEAMS ARE PRIMARY MEMBERS FOR FIREPROOFING UNLESS NOTED AS SECONDARY. SEE "GENERAL NOTES" FOR CRITERIA
 - WHERE NO BEAM SIZE IS CALLED OUT ADJACENT TO FLOOR OR ROOF OPENING, REFER TO TYPICAL STEEL DETAILS FOR SIZES AND CONNECTIONS
 - INDICATES BEAM WEB PENETRATION PER "TYPICAL BEAM WEB PENETRATION DETAILS"
 - INDICATES BEAM HAUNCH PER "TYPICAL HAUNCHED BEAM DETAILS"

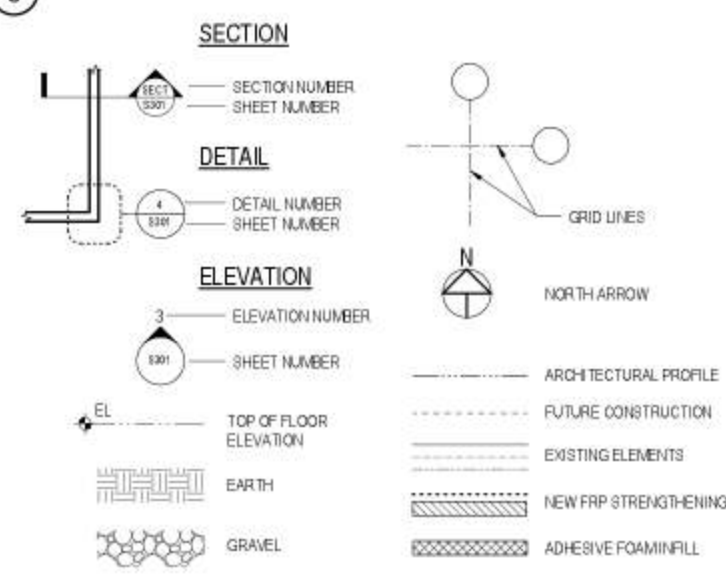
8 BEAM CALLOUT KEY



4 STEEL MEMBERS



9 CONNECTORS



14 MISCELLANEOUS SYMBOLS

f c = 3,000 PSI				f c = 4,000 PSI				ALL CONCRETE STRENGTHS									
BAR SIZE	Ld	Lt	Lsb	Ldb	Ldt	Lst	Lsb	BAR SIZE	Lb	Lc	Les	BAR SIZE	Lb	Lc	Les		
#3	17	23	23	30	#3	15	20	20	26	#3	8	12	12	#3	8	12	12
#4	22	29	29	38	#4	19	25	25	33	#4	10	15	15	#4	10	15	15
#5	28	37	37	49	#5	24	32	32	42	#5	12	19	19	#5	12	19	19
#6	33	43	43	56	#6	29	38	38	50	#6	15	23	23	#6	15	23	23
#7	48	63	63	82	#7	42	55	55	72	#7	17	26	26	#7	17	26	26
#8	55	72	72	94	#8	48	63	63	82	#8	19	30	30	#8	19	30	30
#9	62	81	81	106	#9	54	71	71	93	#9	22	34	34	#9	22	34	34
#10	70	91	91	119	#10	61	80	80	104	#10	24	38	38	#10	24	38	38
#11	78	102	102	133	#11	67	88	88	115	#11	27	42	42	#11	27	42	42
#14	93	121	-	-	#14	81	108	-	-	#14	33	-	-	#14	33	-	-
#18	124	162	-	-	#18	108	141	-	-	#18	43	-	-	#18	43	-	-

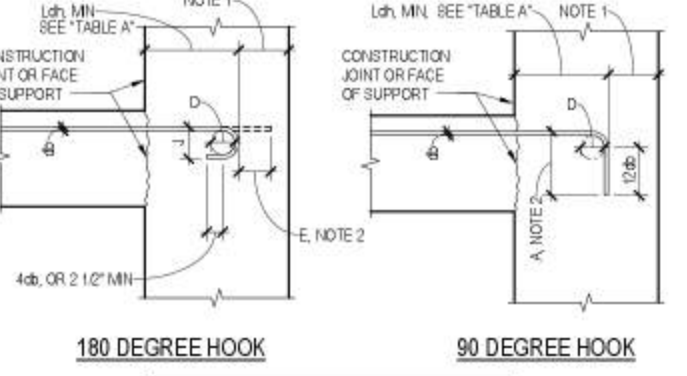
20 STANDARD HOOKS AND EMBEDMENT

NOTES:

- ABOVE VALUES VALID FOR ALL CASE IF SIDE COVER ≥ 2 1/2" END COVER ≥ 2"
- BAR DIMENSION REQUIRED TO MANUFACTURE HOOK.
- FOR EPOXY COATED HOOKS, INCREASE THE ABOVE EMBEDMENT LENGTHS BY 20%.

DRAWING LIST	
SHEET NUMBER	SHEET NAME
S001	ABBREVIATIONS, SYMBOLS, DRAWING LIST
S002	GENERAL NOTES
S003	GENERAL NOTES
S101	LOAD MAPS
S102	LOAD MAPS
S103	LOAD MAPS
S201	FLOOR PLAN - LEVEL 1
S201A	ENLARGED GALLERY EXPANSION FLOOR PLAN - LEVEL 1
S202	FLOOR PLAN - LEVEL 2
S202A	ENLARGED GALLERY EXPANSION FLOOR PLAN - LEVEL 2
S203	FLOOR PLAN - LEVEL 3
S203A	ENLARGED GALLERY EXPANSION FLOOR PLAN - LEVEL 3
S204	FLOOR PLAN - LEVEL 4
S204A	ENLARGED GALLERY EXPANSION FLOOR PLAN - LEVEL 4
S250	PARTIAL PLANS
S251	PARTIAL PLANS
S252	PARTIAL PLANS
S301	BRACED FRAME ELEVATIONS
S311	TYPICAL BRACED FRAME CONNECTION SECTIONS AND DETAILS
S312	TYPICAL BRACED FRAME CONNECTION SECTIONS AND DETAILS
S313	TYPICAL BRACED FRAME CONNECTION SECTIONS AND DETAILS
S321	WALL ELEVATIONS
S322	WALL ELEVATIONS
S323	WALL ELEVATIONS
S324	WALL ELEVATIONS
S325	WALL ELEVATIONS
S326	WALL ELEVATIONS
S401	TYPICAL CONCRETE DETAILS
S402	TYPICAL CONCRETE DETAILS
S431	TYPICAL RENOVATION DETAILS
S411	TYPICAL STEEL DETAILS
S412	TYPICAL STEEL DETAILS
S413	TYPICAL STEEL DETAILS
S414	TYPICAL STEEL DETAILS
S415	TYPICAL STEEL DETAILS
S416	TYPICAL STEEL DETAILS
S421	TYPICAL MASONRY DETAILS
S501	GALLERY EXPANSION SECTIONS AND DETAILS
S502	GALLERY EXPANSION SECTIONS AND DETAILS
S503	GALLERY EXPANSION SECTIONS AND DETAILS
S504	GALLERY EXPANSION SECTIONS AND DETAILS
S505	GALLERY EXPANSION SECTIONS AND DETAILS
S506	LOADING DOOR SECTIONS AND DETAILS
S507	LOADING DOOR SECTIONS AND DETAILS
S508	LOADING DOOR SECTIONS AND DETAILS
S511	RENOVATION SECTIONS AND DETAILS
S512	RENOVATION SECTIONS AND DETAILS
S513	RENOVATION SECTIONS AND DETAILS

10 DRAWING LIST



END HOOK ALL GRADES (D) FINISHED BEND DIAMETER				
BAR SIZE	D	E	J	A
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	6 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	24"

TABLE A MINIMUM TENSION EMBEDMENT LENGTHS (Ld) FOR STANDARD END HOOKS ON GRADE 60 BARS						
BAR SIZE	NOMINAL WEIGHT CONCRETE, f c (PSI)					
	3,000	4,000	5,000	6,000	7,000	8,000
#3	6"	6"	6"	6"	6"	6"
#4	8"	7"	7"	7"	7"	7"
#5	10"	9"	9"	9"	9"	9"
#6	12"	10"	10"	10"	10"	10"
#7	14"	12"	11"	10"	9"	9"
#8	16"	14"	12"	11"	10"	10"
#9	18"	15"	14"	13"	12"	11"
#10	20"	17"	15"	14"	14"	14"
#11	22"	19"	17"	16"	15"	15"

- NOTES:
- ABOVE VALUES VALID FOR ALL CASE IF SIDE COVER ≥ 2 1/2" END COVER ≥ 2"
 - BAR DIMENSION REQUIRED TO MANUFACTURE HOOK.
 - FOR EPOXY COATED HOOKS, INCREASE THE ABOVE EMBEDMENT LENGTHS BY 20%.



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 1400 E. Prospect / Seattle, WA 98112

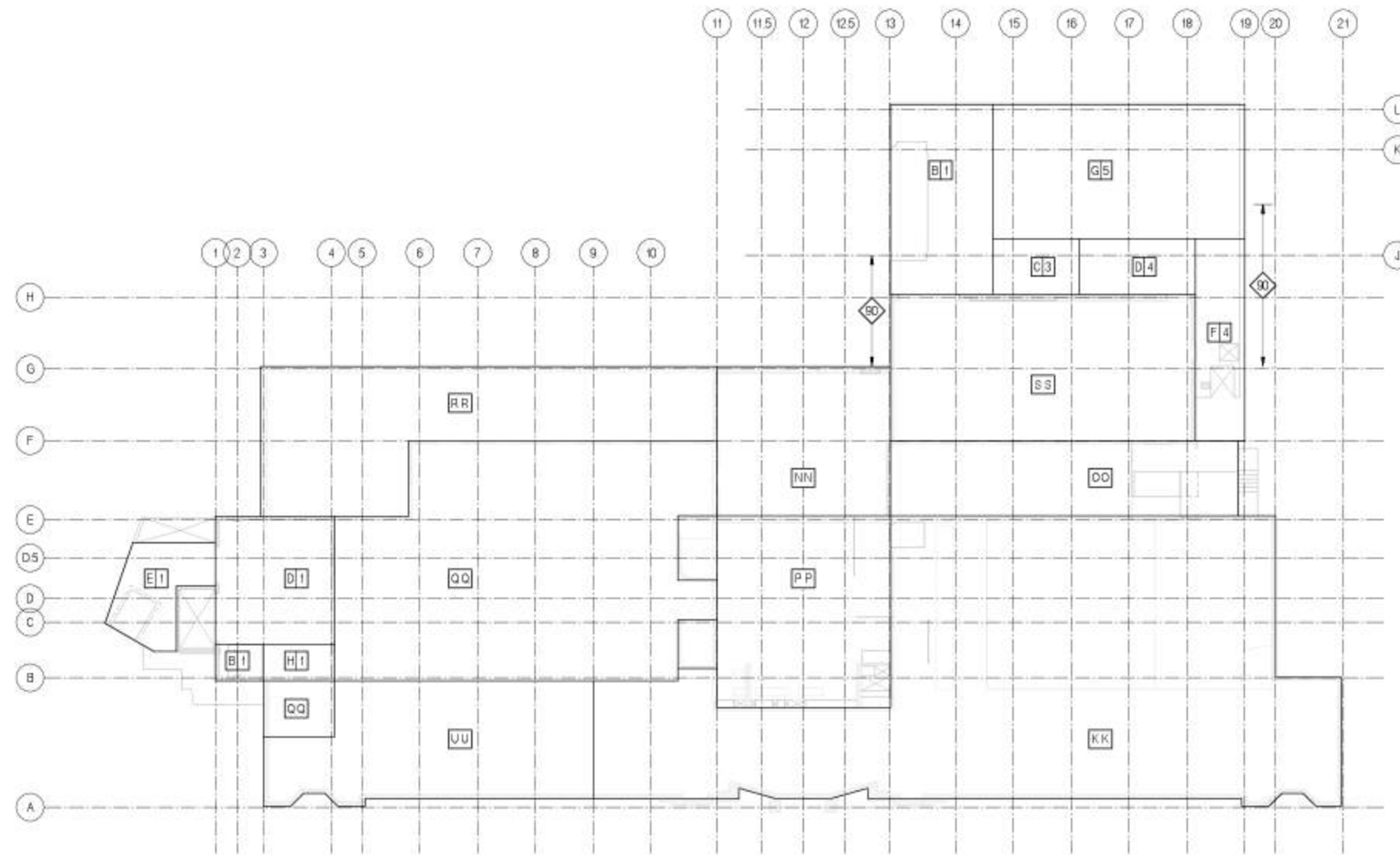
Submit	Revisions		
No.	Date	By	Description

100% Construction Documents

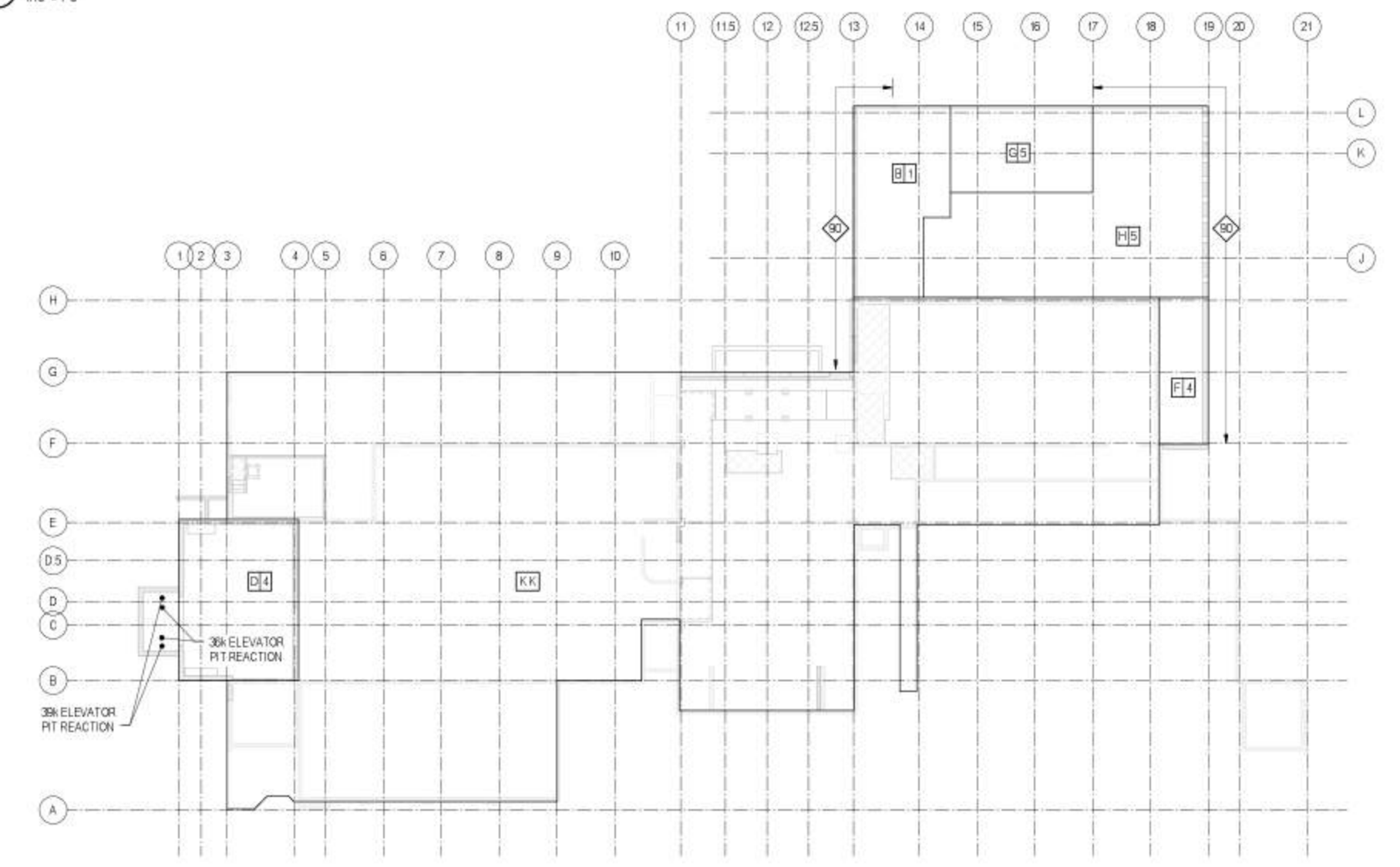
Drawn: SRT
 Checked: RMZ
 M/A Proj No: A207000
 Date: 6/23/2017

ABBREVIATIONS, SYMBOLS, DRAWING LIST

S001



2 FLOOR PLAN - LEVEL 2 LOAD MAP
1/8" = 1'-0"



1 FLOOR PLAN - LEVEL 1 LOAD MAP
1/8" = 1'-0"

LOAD MAP KEY

NUMBER INDICATES SUPERIMPOSED DEAD LOAD MARK
 LETTER INDICATES LIVE LOAD MARK
 INDICATES CLADDING LOAD IN POUNDS PER SQUARE FOOT OF SURFACE AREA
 SEE "CLADDING LOAD NOTES" DETAIL AT THE END OF LOAD MAPS

EXPANSION LIVE LOAD (LL) DESIGNATIONS		
MARK	USE	LIVE LOAD (PSF)
A	GALLERY	100
B	CORRIDORS AND STAIRS	100
C	KITCHEN	100
D	LIGHT STORAGE AND RECEIVING	125
E	LOADING DOCK	250
F	MECHANICAL/ELECTRICAL	125
G	MEETING ROOM/ASSEMBLY	100
H	OFFICE	50 (R) + 15 PSF PARTITIONS
J	ROOF	20 (R), 25 PSF SNOW LOAD
K	LOADING DOCK ROOF	25 PSF LIVE OR 25 PSF SNOW

EXPANSION SUPERIMPOSED DEAD LOAD (SDL) DESIGNATIONS							
MARK	TYPE	TOTAL SDL (PSF)	CEILING/MEP LOAD (PSF)	FLOOR FINISH LOAD (PSF)	PARTITION LOAD (PSF)	SPECIAL LOAD (PSF)	SPECIAL LOAD DESCRIPTION
1	TYP INTERIOR	15	10	5	-	-	
2	GALLERIES	25	10	15	-	-	
3	KITCHEN	35	10	25	-	-	
4	LIGHT INTERIOR	10	5	5	-	-	
5	OFFICE	15	10	5	-	-	
6	ROOF	25	10	-	-	15	ROOFING
7	SOLAR READY ROOF	45	10	15	-	20	SOLAR PANELS
8	PARK LOBBY	30	15	15	-	-	

EXISTING BUILDING LIVE LOAD - ESTIMATED LIMITS (SEE NOTE 4)		
MARK	USE	LIVE LOAD (PSF)
KK	EXISTING SLAB ON GRADE	UNKNOWN
NN	1932 ELEVATED SLAB 170 PSF	170
NN	1932 ELEVATED SLAB 100 PSF	100
OO	1932 ELEVATED SLAB 75 PSF	75
PP	1932 ELEVATED SLAB 50 PSF	50
OO	1932 ELEVATED SLAB UNKNOWN	50 (APPROX)
RR	1947 ELEVATED SLAB 100 PSF	100
SS	1965 ELEVATED SLAB LIGHT JOISTS	75 (APPROX)
TT	1965 ELEVATED SLAB HEAVY JOISTS	45 (APPROX)
UU	1969 ELEVATED SLAB 100 PSF	100
VV	1965 ROOF LIGHT JOISTS	UNKNOWN
WW	1932 ROOF	UNKNOWN

- LOAD MAP NOTES**
- LIVE LOADS (MARKED (R)) ARE REDUCIBLE IN ACCORDANCE WITH THE BUILDING CODE.
 - SUPERIMPOSED DEAD LOADS ARE IN ADDITION TO THE SELF-WEIGHT OF THE STRUCTURE.
 - SEE FRAMING PLANS FOR DESIGN LOAD OF SPECIFIC ITEMS SUCH AS ELEVATORS, DOCK LEVELERS, AND MECHANICAL/ELECTRICAL EQUIPMENT.
 - EXISTING BUILDING LIVE LOAD ESTIMATED LIMITS ARE BASED ON DESIGN INTENT AS SHOWN IN EXISTING DRAWINGS. M/A HAS NOT VALIDATED LOADS WITH ENGINEERING ANALYSIS OR INSPECTION OF AS-BUILT CONDITIONS.

3 LOAD MAP NOTES AND DESIGNATIONS



Asian Art Museum Expansion & Renovation
 Volunteer Park / 1400 E Prospect / Seattle, WA 98112

Revisions			
No.	Date	By	Description

100% Construction Documents

Drawn: SRT
 Checked: RMZ
 M/A Proj No: A207000
 Date: 6/23/2017

Sheet Title: LOAD MAPS
 Sheet Number: S101

S101

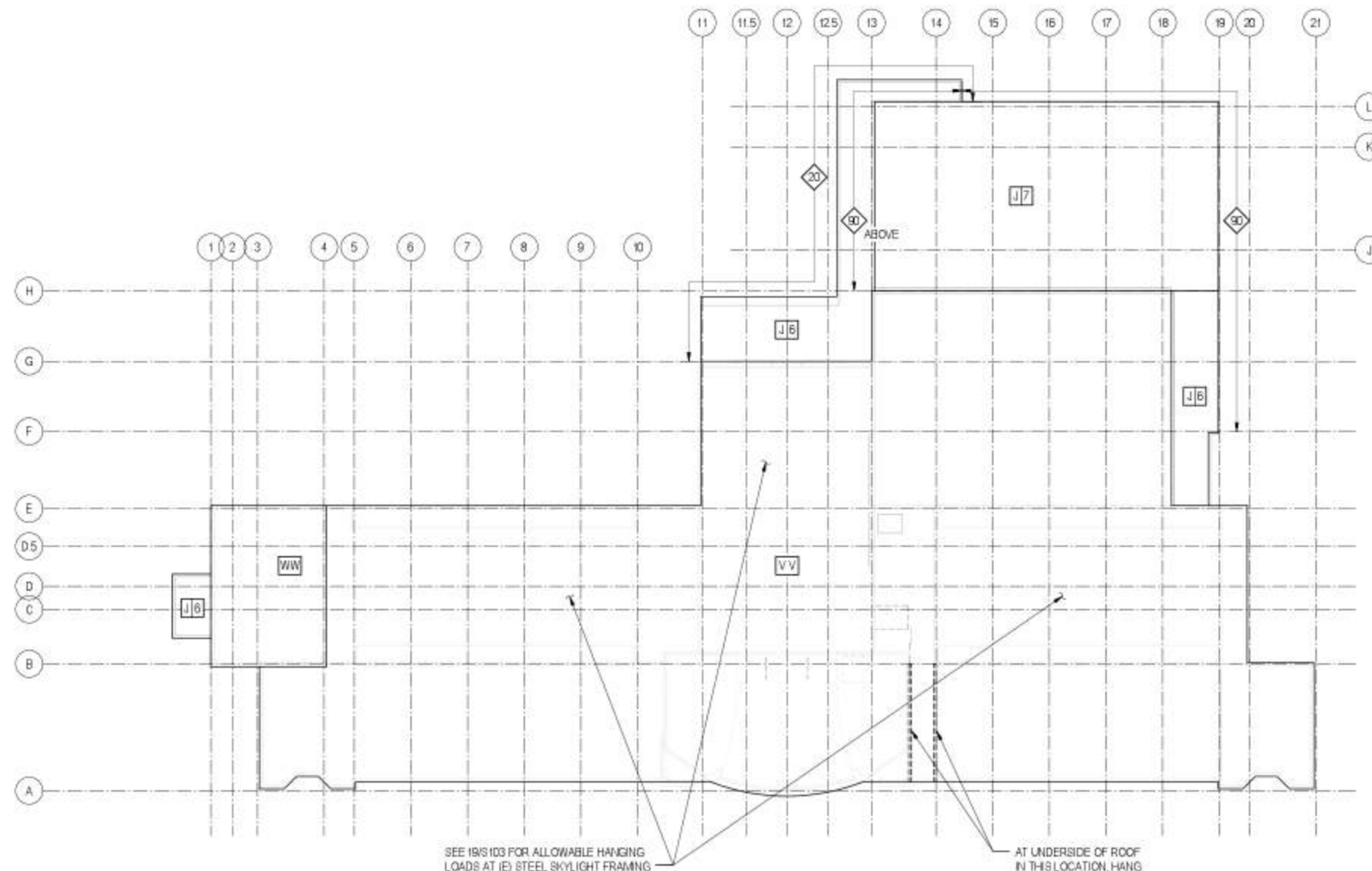
- LOAD MAP KEY**
- NUMBER INDICATES SUPERIMPOSED DEAD LOAD MARK
 - LETTER INDICATES LIVE LOAD MARK
 - INDICATES CLADDING LOAD IN POUNDS PER SQUARE FOOT OF SURFACE AREA. SEE "CLADDING LOAD NOTES" DETAIL AT THE END OF LOAD MAPS.

EXPANSION LIVE LOAD (LL) DESIGNATIONS		
MARK	USE	LIVE LOAD (PSF)
A	GALLERY	150
B	CORRIDORS AND STAIRS	100
C	KITCHEN	100
D	LIGHT STORAGE AND RECEIVING	125
E	LOADING DOCK	250
F	MECHANICAL/ELECTRICAL	125
G	MEETING ROOM/ASSEMBLY	100
H	OFFICE	50 (R) + 15 PSF PARTITIONS
J	ROOF	20 (R), 25 PSF SNOW LOAD
K	LOADING DOCK ROOF	25 PSF LIVE OR 25 PSF SNOW

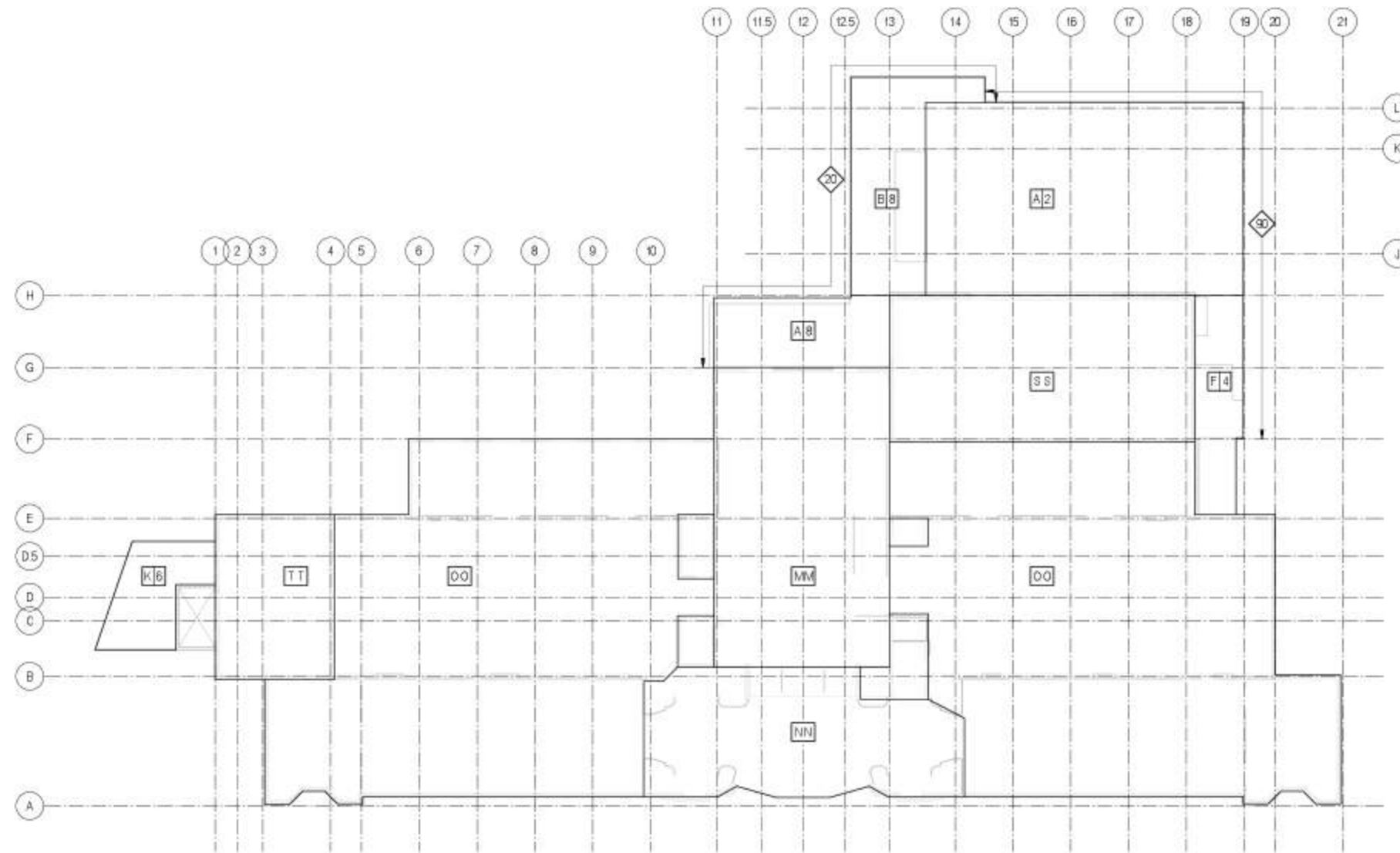
EXPANSION SUPERIMPOSED DEAD LOAD (SDL) DESIGNATIONS							
MARK	TYPE	TOTAL SDL (PSF)	CEILING/MEP LOAD (PSF)	FLOOR FINISH LOAD (PSF)	PARTITION LOAD (PSF)	SPECIAL LOAD (PSF)	SPECIAL LOAD DESCRIPTION
1	TYP INTERIOR	15	10	5	-	-	
2	GALLERIES	25	10	15	-	-	
3	KITCHEN	35	10	25	-	-	
4	LIGHT INTERIOR	10	5	5	-	-	
5	OFFICE	15	10	5	-	-	
6	ROOF	25	10	-	-	15	ROOFING
7	SOLAR READY ROOF	45	10	15	-	20	SOLAR PANELS
8	PARK LOBBY	30	15	15	-	-	

EXISTING BUILDING LIVE LOAD - ESTIMATED LIMITS (SEE NOTE 4)		
MARK	USE	LIVE LOAD (PSF)
KK	EXISTING SLAB ON GRADE	UNKNOWN
MM	1932 ELEVATED SLAB 170 PSF	170
NN	1932 ELEVATED SLAB 100 PSF	100
OO	1932 ELEVATED SLAB 75 PSF	75
PP	1932 ELEVATED SLAB 50 PSF	50
QQ	1932 ELEVATED SLAB UNKNOWN	50 (APPROX)
RR	1947 ELEVATED SLAB 100 PSF	100
SS	1965 ELEVATED SLAB LIGHT JOISTS	75 (APPROX)
TT	1965 ELEVATED SLAB HEAVY JOISTS	125 (APPROX, SEE NOTE 5)
UU	1969 ELEVATED SLAB 100 PSF	100
VV	1965 ROOF LIGHT JOISTS	UNKNOWN
WW	1932 ROOF	UNKNOWN

- LOAD MAP NOTES**
- LIVE LOADS (MARKED (R)) ARE REDUCIBLE IN ACCORDANCE WITH THE BUILDING CODE.
 - SUPERIMPOSED DEAD LOADS ARE IN ADDITION TO THE SELF-WEIGHT OF THE STRUCTURE.
 - SEE FRAMING PLANS FOR DESIGN LOAD OF SPECIFIC ITEMS SUCH AS ELEVATORS, DOCK LEVELERS, AND MECHANICAL/ELECTRICAL EQUIPMENT.
 - EXISTING BUILDING LIVE LOAD ESTIMATED LIMITS ARE BASED ON DESIGN INTENT AS SHOWN IN EXISTING DRAWINGS. M&A HAS NOT VALIDATED LOADS WITH ENGINEERING ANALYSIS OR INSPECTION OF AS-BUILT CONDITIONS.
 - LIVE LOAD CAPACITY DETERMINED FROM M&A'S NORTH GALLERY EVALUATION REPORT, DATED AUGUST 30, 2017.

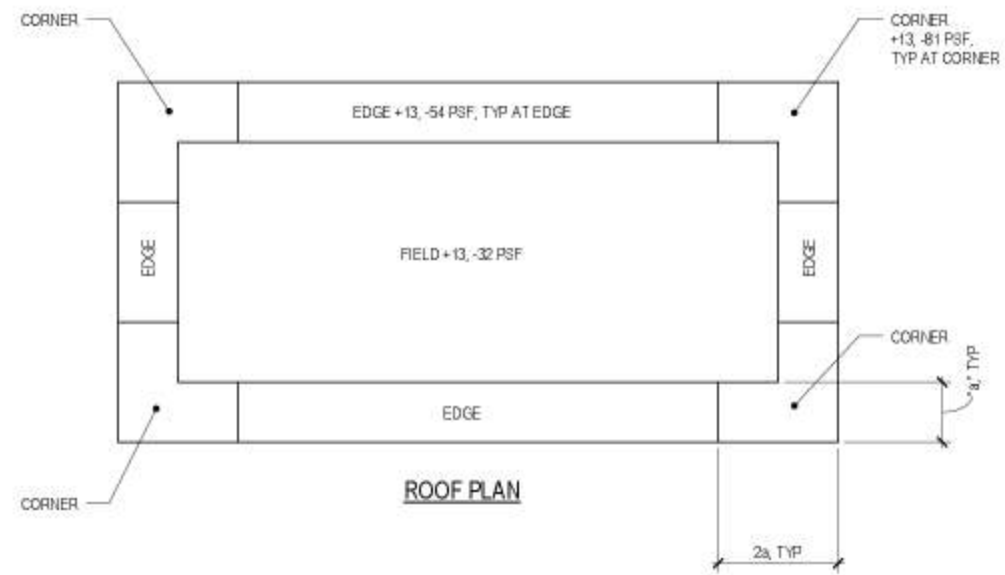


2 FLOOR PLAN - LEVEL 4 LOAD MAP
1/16" = 1'-0"



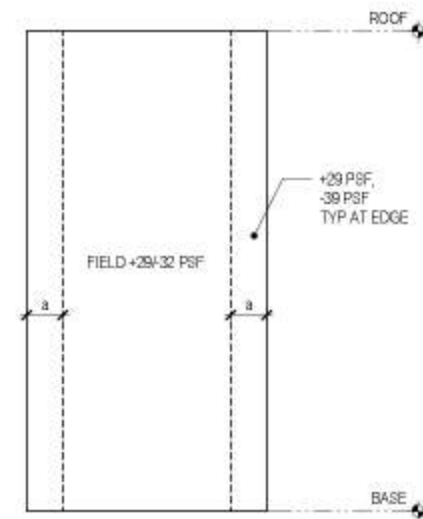
1 FLOOR PLAN - LEVEL 3 LOAD MAP
1/16" = 1'-0"

3 LOAD MAP NOTES AND DESIGNATIONS



NOTES:
1. SEE NOTES IN 'COMPONENTS AND CLADDING WIND PRESSURE DIAGRAM' DETAIL.

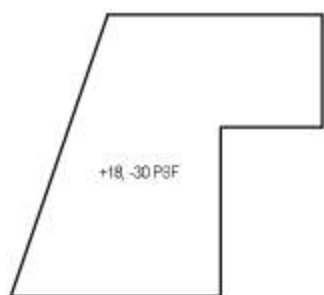
6 ROOF WIND UPLIFT PRESSURE DIAGRAM



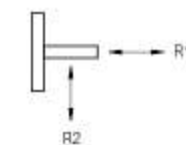
BUILDING ELEVATION

- NOTES:
1. WIND LOADS FOR COMPONENTS AND CLADDING ARE DETERMINED IN ACCORDANCE WITH IBC 2015 SECTION 1609 / ASCE 7-10 SECTION 30.6, AND ARE STRENGTH LEVEL (WU) PRESSURES. SCALING TO NOMINAL WIND PRESSURES MAY BE ACCOMPLISHED BY MULTIPLYING THE INDICATED VALUES BY 0.9.
 2. EXTERIOR COMPONENTS AND CLADDING SHALL BE DESIGNED TO ACCOMMODATE WORST CASE WIND LOADS SHOWN. ALTERNATIVELY, WIND LOADS MAY BE DETERMINED DIRECTLY FROM THE PROVISIONS OF IBC 2015 SECTION 1609 / ASCE 7-10 USING THE WIND LOAD CRITERIA NOTED IN THE 'GENERAL NOTES.'
 3. METHOD OF APPLICATION AND MODIFICATION FACTORS APPLICABLE FOR CORNERS, OVERHANGS, ETC SHALL BE DETERMINED PER ASCE 7-10 BY THE CLADDING DESIGNER. REFER TO 'GENERAL NOTES' FOR ADDITIONAL INFORMATION AFFECTING CLADDING DESIGN AND CONNECTION TO THE STRUCTURE.
 4. INWARD (POSITIVE) PRESSURE ACTS TOWARDS THE BUILDING SURFACE AND OUTWARD (NEGATIVE) PRESSURE ACTS AS SUCTION ON THE BUILDING SURFACE.
 5. PRESSURES ARE CALCULATED USING THE MINIMUM EFFECTIVE WIND AREA (10 SQUARE FEET).
 6. EDGE PRESSURES SHALL BE USED FOR A DISTANCE 'a' FROM THE BUILDING'S CORNERS, WHERE 'a' IS 10% OF THE LEAST HORIZONTAL DIMENSION, BUT NOT LESS THAN 3 FEET. 'a' IS USED FOR OUTWARD PRESSURES ONLY.
 7. NET PRESSURE TO ALL PARAPETS IS 67 PSF AT EDGE, 79 PSF AT CORNER IN PLAN.

8 COMPONENTS AND CLADDING WIND PRESSURE DIAGRAM

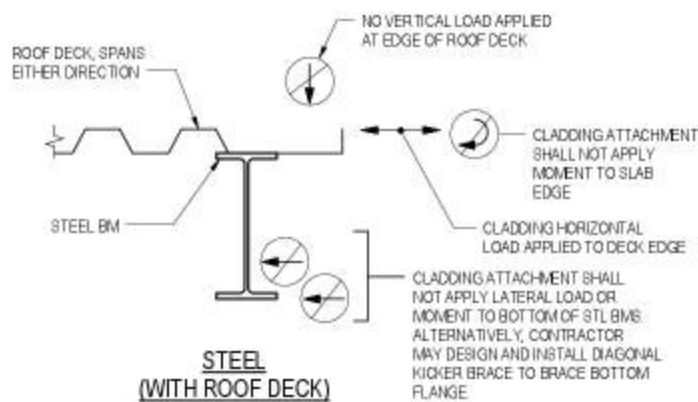
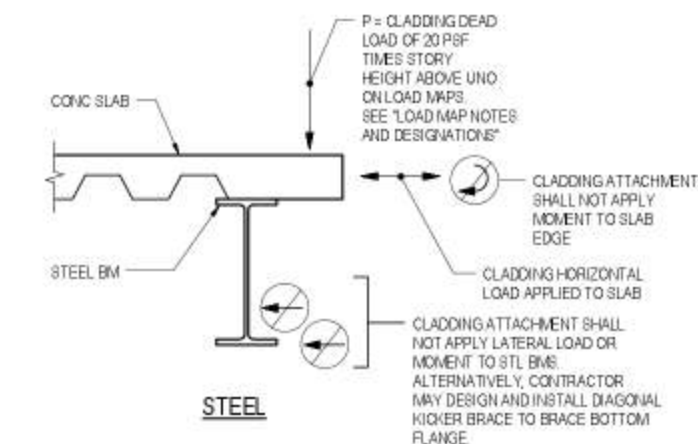
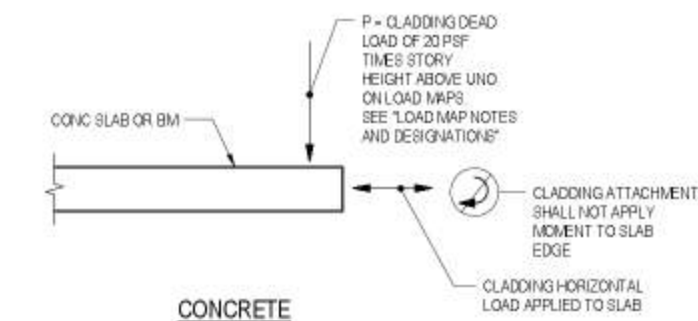


13 LOADING DOCK ROOF WIND PRESSURE DIAGRAM



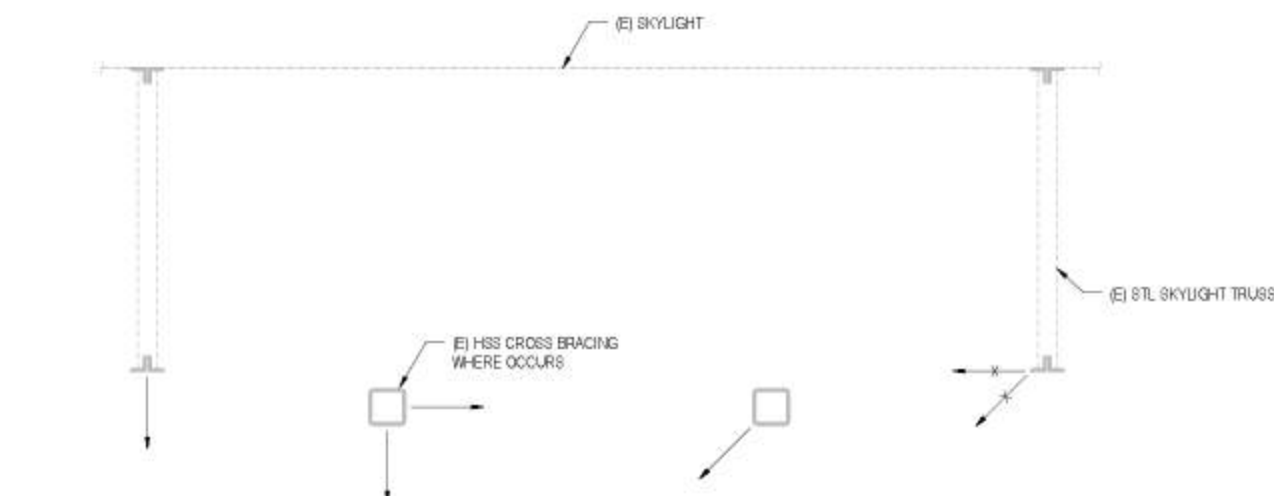
ELEVATOR	ELEVATOR RAIL HORIZONTAL REACTIONS			
	NORMAL LOADING		SEISMIC LOADING	
	R1	R2	R1	R2
ELEVATOR 2	3.1k	6.1k	6.8k	3.4k

14 ELEVATOR RAIL HORIZONTAL REACTIONS



- NOTES:
1. REFER TO GENERAL NOTES, 'EXTERIOR CLADDING' FOR ADDITIONAL INFORMATION.
 2. STRUCTURE IS DESIGNED FOR THE EQUIVALENT UNIFORM LOAD CORRESPONDING TO THE ANTICIPATED WEIGHT OF THE CLADDING SYSTEM. CLADDING ATTACHMENTS SHALL APPLY CONCENTRATED LOADS TO THE STRUCTURE. CONTRACTOR SHALL SUBMIT TYPICAL CLADDING ATTACHMENT DETAILS FOR REVIEW AND COMMENT PRIOR TO PREPARATION OF DETAILED CLADDING SUBMITTAL.

15 CLADDING LOAD NOTES



19 LOAD LIMITS FOR (N) MEP ON (E) STEEL SKYLIGHT FRAMING

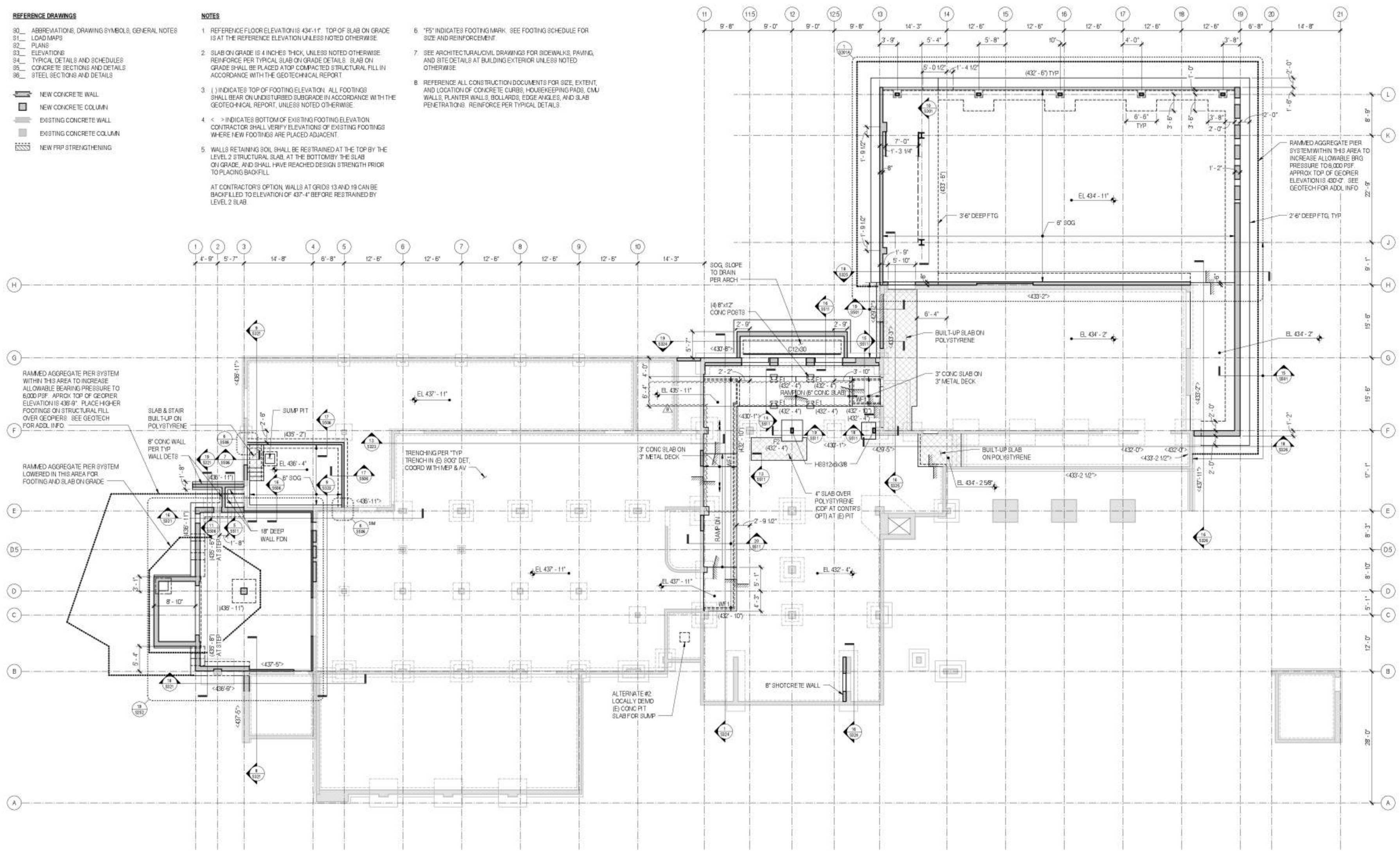
REFERENCE DRAWINGS

- 30. ABBREVIATIONS, DRAWING SYMBOLS, GENERAL NOTES
- 31. LOAD MAPS
- 32. PLANS
- 33. ELEVATIONS
- 34. TYPICAL DETAILS AND SCHEDULES
- 35. CONCRETE SECTIONS AND DETAILS
- 36. STEEL SECTIONS AND DETAILS

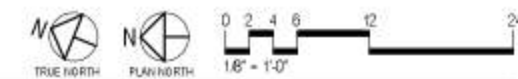
- NEW CONCRETE WALL
- NEW CONCRETE COLUMN
- EXISTING CONCRETE WALL
- EXISTING CONCRETE COLUMN
- NEW FRP STRENGTHENING

NOTES

1. REFERENCE FLOOR ELEVATION IS 434'-11" TOP OF SLAB ON GRADE IS AT THE REFERENCE ELEVATION UNLESS NOTED OTHERWISE.
2. SLAB ON GRADE IS 4 INCHES THICK, UNLESS NOTED OTHERWISE. REINFORCE PER TYPICAL SLAB ON GRADE DETAILS. SLAB ON GRADE SHALL BE PLACED AT TOP COMPACTED STRUCTURAL FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
3. () INDICATES TOP OF FOOTING ELEVATION. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SUBGRADE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, UNLESS NOTED OTHERWISE.
4. < > INDICATES BOTTOM OF EXISTING FOOTING ELEVATION. CONTRACTOR SHALL VERIFY ELEVATIONS OF EXISTING FOOTINGS WHERE NEW FOOTINGS ARE PLACED ADJACENT.
5. WALLS RETAINING SOIL SHALL BE RESTRAINED AT THE TOP BY THE LEVEL 2 STRUCTURAL SLAB. AT THE BOTTOM BY THE SLAB ON GRADE, AND SHALL HAVE REACHED DESIGN STRENGTH PRIOR TO PLACING BACKFILL.
AT CONTRACTOR'S OPTION, WALLS AT GRIDS 13 AND 19 CAN BE BACKFILLED TO ELEVATION OF 437'-4" BEFORE RESTRAINED BY LEVEL 2 SLAB.
6. "F5" INDICATES FOOTING MARK. SEE FOOTING SCHEDULE FOR SIZE AND REINFORCEMENT.
7. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR SIDEWALKS, PAVING, AND SITE DETAILS AT BUILDING EXTERIOR UNLESS NOTED OTHERWISE.
8. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR SIZE, EXTENT, AND LOCATION OF CONCRETE CURBS, HOUSEKEEPING PADS, CMU WALLS, PLANTER WALLS, BOLLARDS, EDGE ANGLES, AND SLAB PENETRATIONS. REINFORCE PER TYPICAL DETAILS.



1 FLOOR PLAN - LEVEL 1
1/8" = 1'-0"



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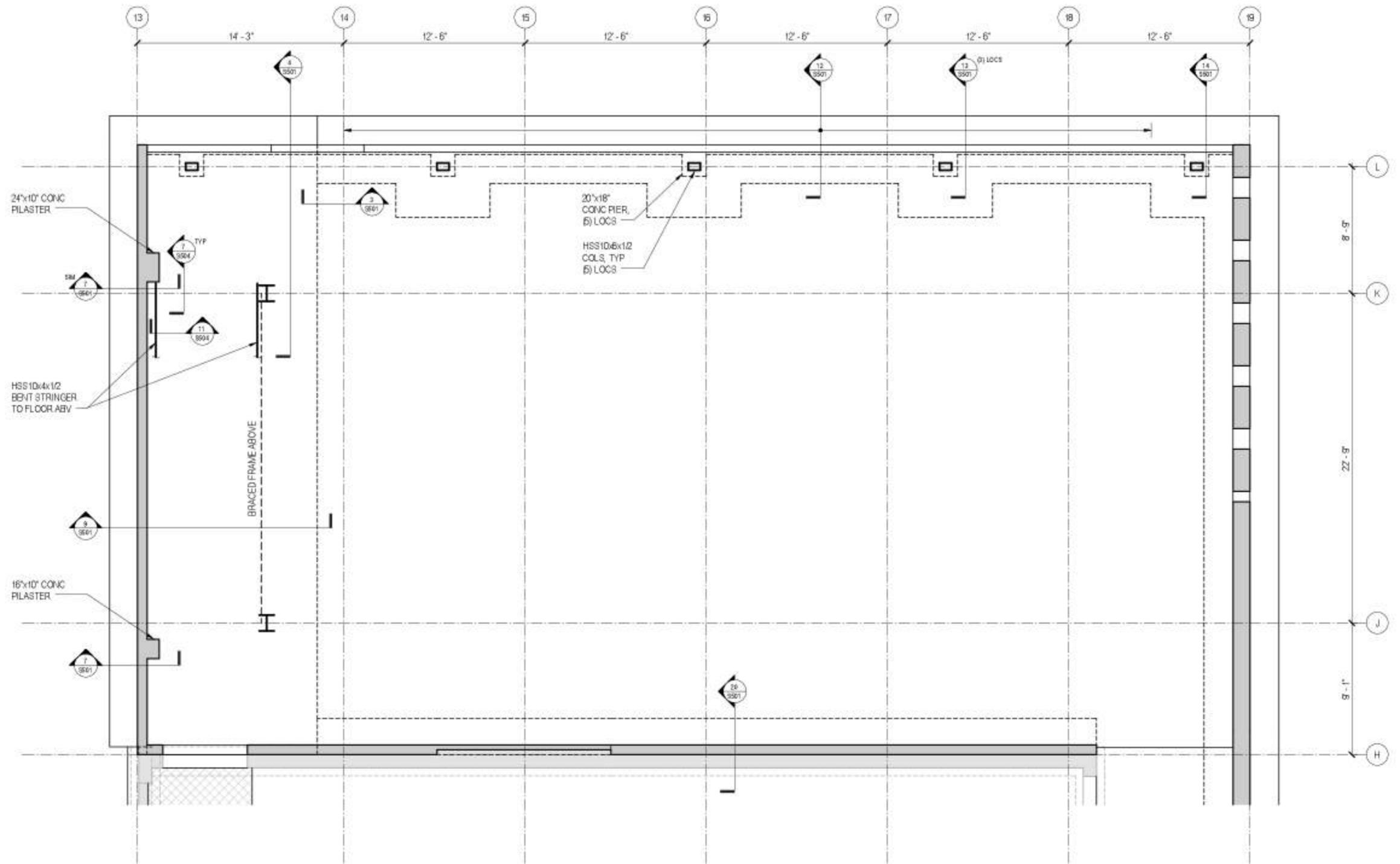
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**FLOOR PLAN -
LEVEL 1**

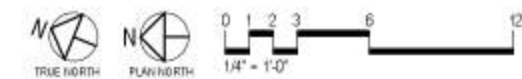
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1 ENLARGED FLOOR PLAN - LEVEL 1
1/4" = 1'-0"

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LEVEL 1**

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Number

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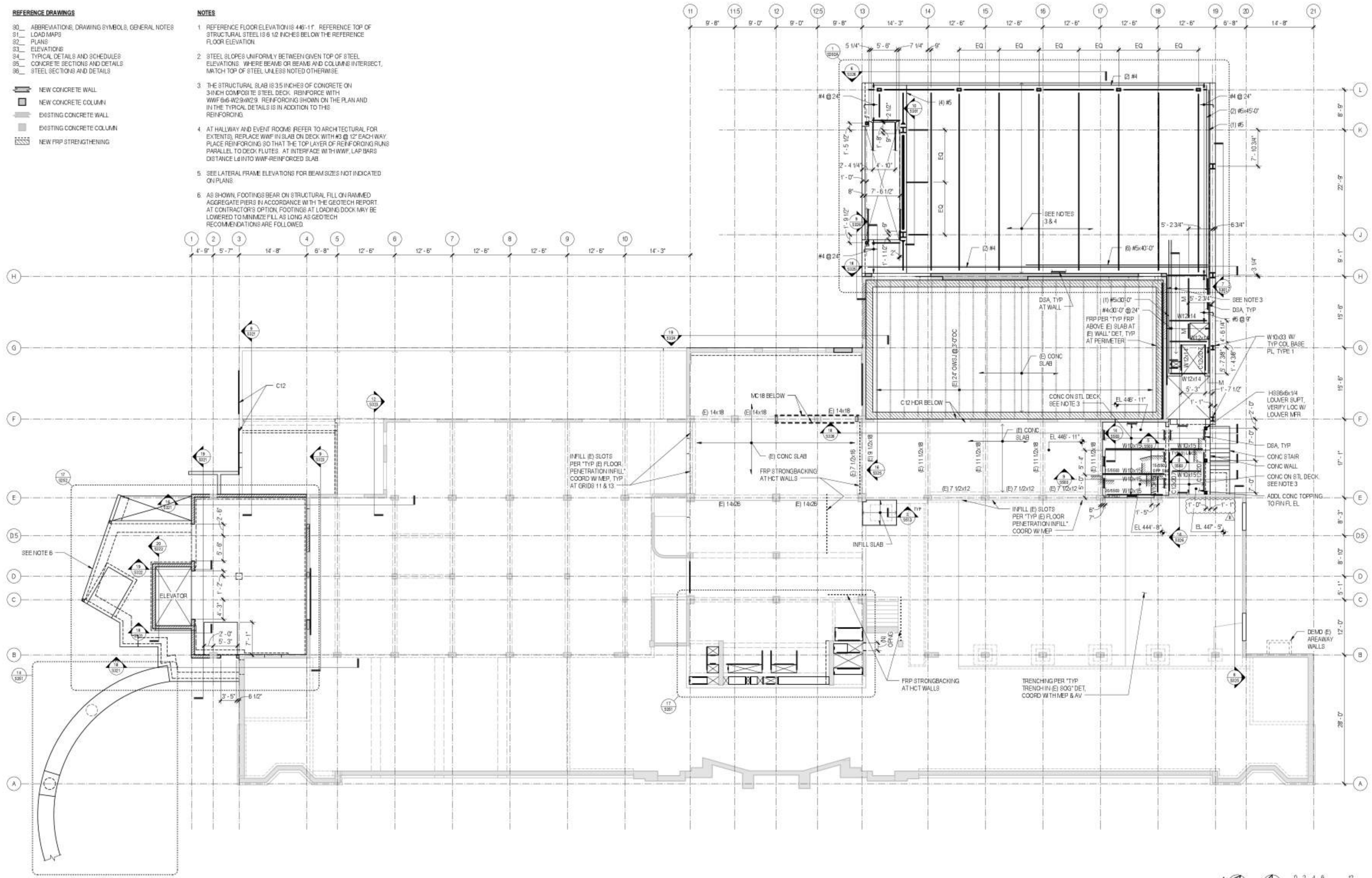
REFERENCE DRAWINGS

- 30. ABBREVIATIONS, DRAWING SYMBOLS, GENERAL NOTES
- 31. LOAD MAPS
- 32. PLANS
- 33. ELEVATIONS
- 34. TYPICAL DETAILS AND SCHEDULES
- 35. CONCRETE SECTIONS AND DETAILS
- 36. STEEL SECTIONS AND DETAILS

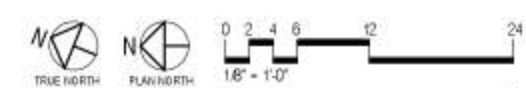
- NEW CONCRETE WALL
- NEW CONCRETE COLUMN
- EXISTING CONCRETE WALL
- EXISTING CONCRETE COLUMN
- NEW FRP STRENGTHENING

NOTES

1. REFERENCE FLOOR ELEVATION IS 446'-11" REFERENCE TOP OF STRUCTURAL STEEL IS 6 1/2 INCHES BELOW THE REFERENCE FLOOR ELEVATION.
2. STEEL SLOPES UNIFORMLY BETWEEN GIVEN TOP OF STEEL ELEVATIONS. WHERE BEAMS OR BEAMS AND COLUMNS INTERSECT, MATCH TOP OF STEEL UNLESS NOTED OTHERWISE.
3. THE STRUCTURAL SLAB IS 3.5 INCHES OF CONCRETE ON 3/4" COMPOSITE STEEL DECK. REINFORCE WITH WWF #6-W29-W29. REINFORCING SHOWN ON THE PLAN AND IN THE TYPICAL DETAILS IS IN ADDITION TO THIS REINFORCING.
4. AT HALLWAY AND EVENT ROOMS REFER TO ARCHITECTURAL FOR EXTENTS, REPLACE WWF IN SLAB ON DECK WITH #3 @ 12" EACH WAY. PLACE REINFORCING SO THAT THE TOP LAYER OF REINFORCING RUNS PARALLEL TO DECK FLUTES. AT INTERFACE WITH WWF, LAP BARS DISTANCE L₁ INTO WWF-REINFORCED SLAB.
5. SEE LATERAL FRAME ELEVATIONS FOR BEAM SIZES NOT INDICATED ON PLANS.
6. AS SHOWN, FOOTINGS BEAR ON STRUCTURAL FILL ON RAMMED AGGREGATE PIERS IN ACCORDANCE WITH THE GEOTECH REPORT AT CONTRACTOR'S OPTION. FOOTINGS AT LOADING DOCK MAY BE LOWERED TO MINIMIZE FILL AS LONG AS GEOTECH RECOMMENDATIONS ARE FOLLOWED.



1 FLOOR PLAN - LEVEL 2
1/8" = 1'-0"



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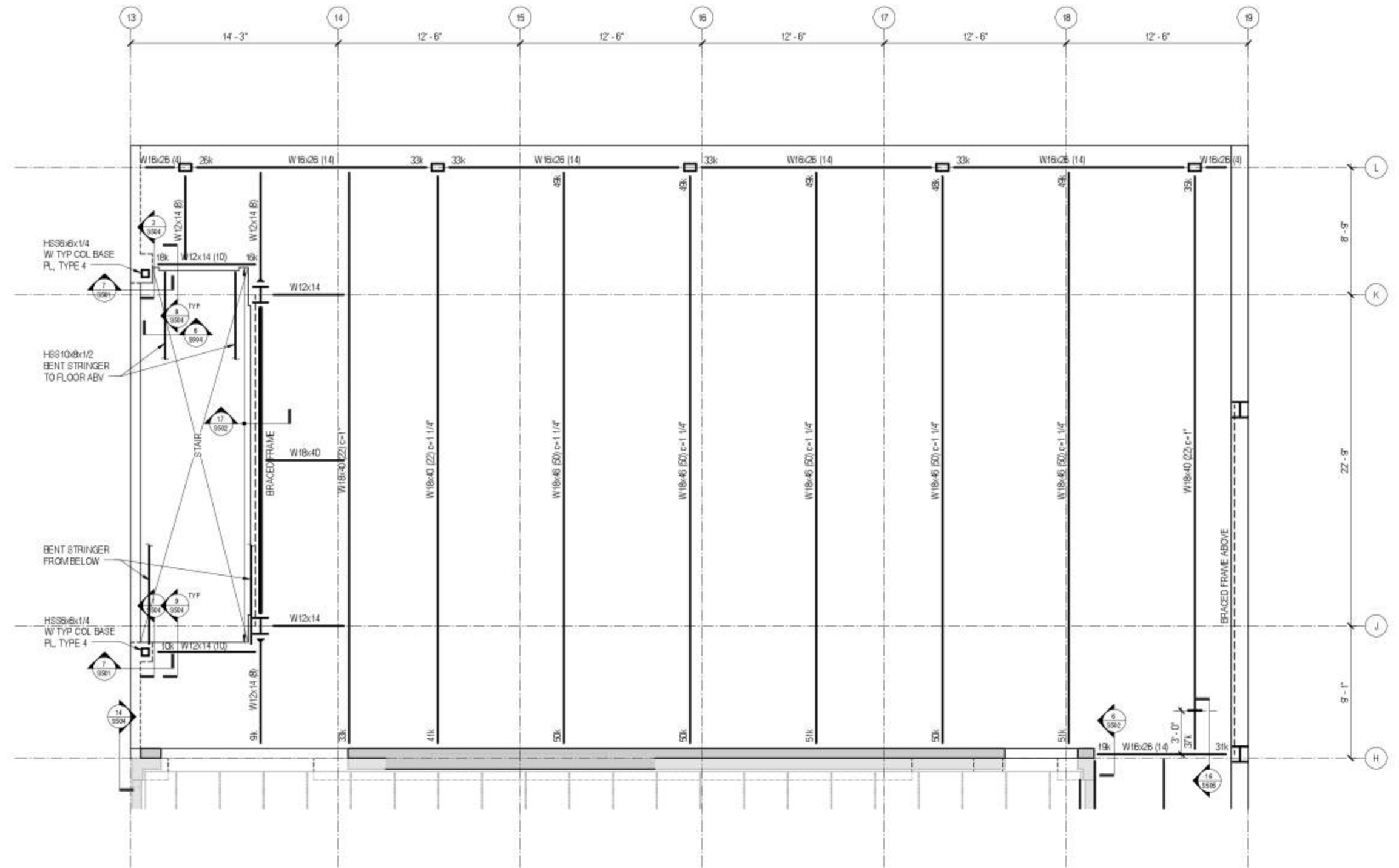
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FLOOR PLAN - LEVEL 2

S202

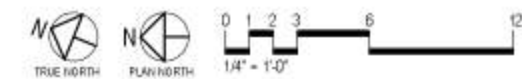
Permit Corrections 1

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1 ENLARGED FLOOR PLAN - LEVEL 2
1/4" = 1'-0"

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Sheet Number

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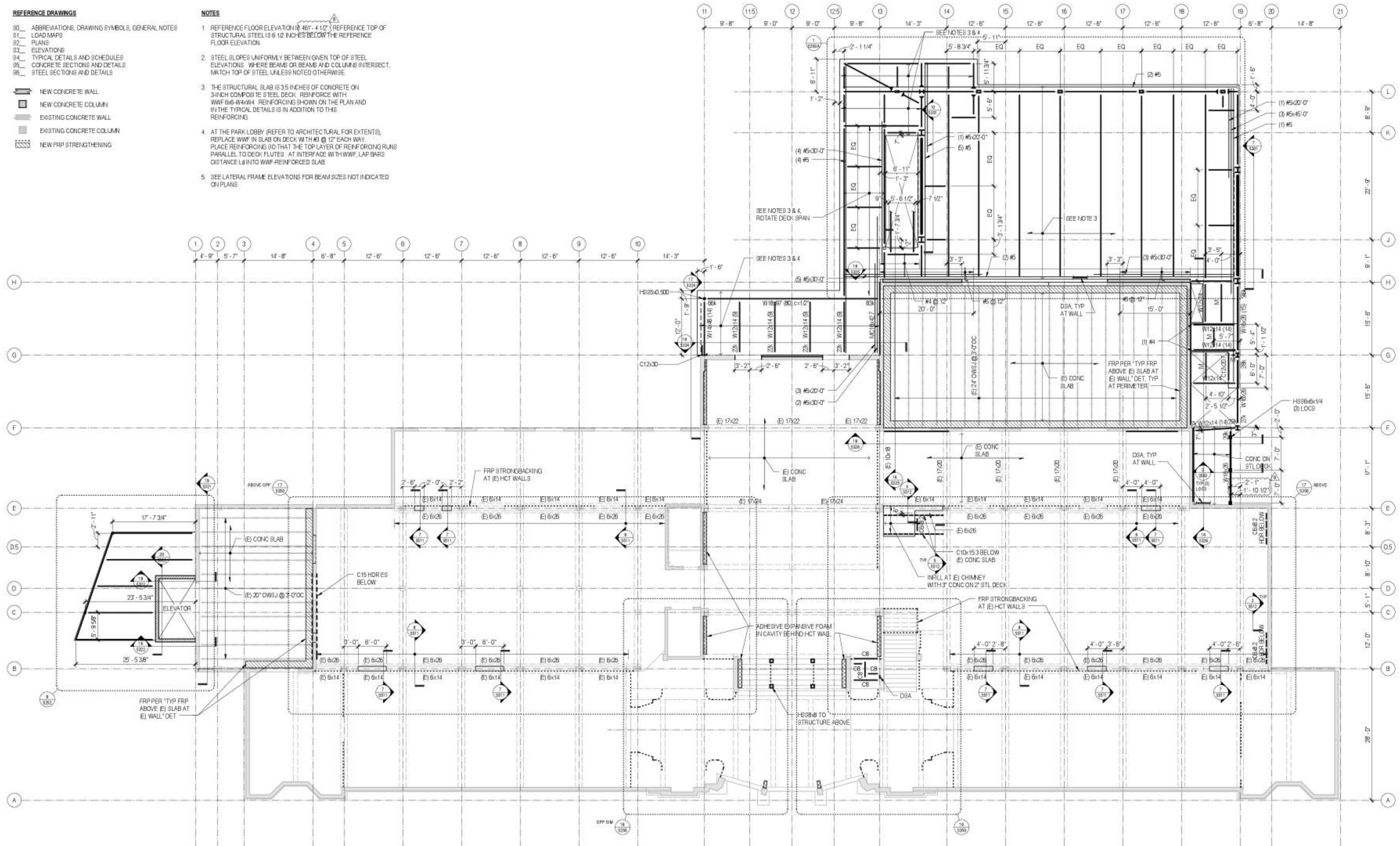
REFERENCE DRAWINGS

- 30. ABBREVIATIONS, DRAWING SYMBOLS, GENERAL NOTES
- 31. LOAD MAPS
- 32. PLANS
- 33. ELEVATIONS
- 34. TYPICAL DETAILS AND SCHEDULES
- 35. CONCRETE SECTIONS AND DETAILS
- 36. STEEL SECTIONS AND DETAILS

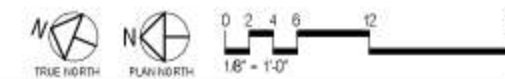
- NEW CONCRETE WALL
- NEW CONCRETE COLUMN
- EXISTING CONCRETE WALL
- EXISTING CONCRETE COLUMN
- NEW FRP STRENGTHENING

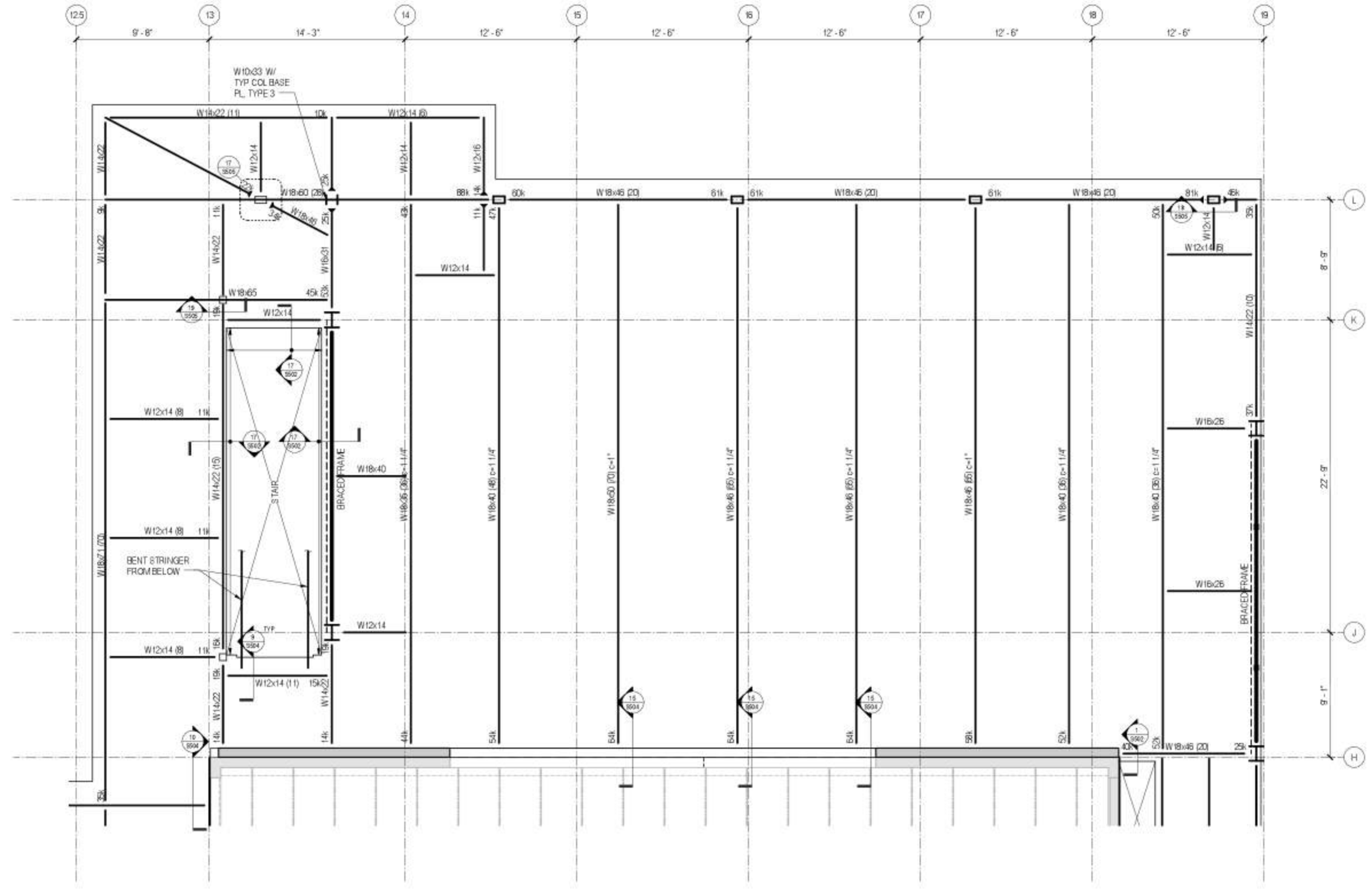
NOTES

1. REFERENCE FLOOR ELEVATION IS 461'-4 1/2" REFERENCE TOP OF STRUCTURAL STEEL IS 6 1/2 INCHES BELOW THE REFERENCE FLOOR ELEVATION.
2. STEEL SLOPES UNIFORMLY BETWEEN GIVEN TOP OF STEEL ELEVATIONS. WHERE BEAMS OR BEAMS AND COLUMNS INTERSECT, MATCH TOP OF STEEL UNLESS NOTED OTHERWISE.
3. THE STRUCTURAL SLAB IS 3.5 INCHES OF CONCRETE ON 3/4 INCH COMPOSITE STEEL DECK. REINFORCE WITH WWF #6-W#4-W#4 REINFORCING SHOWN ON THE PLAN AND IN THE TYPICAL DETAILS IS IN ADDITION TO THIS REINFORCING.
4. AT THE PARK LOBBY (REFER TO ARCHITECTURAL FOR EXTENTS), REPLACE WWF IN SLAB ON DECK WITH #3 @ 12" EACH WAY. PLACE REINFORCING SO THAT THE TOP LAYER OF REINFORCING RUNS PARALLEL TO DECK FLUTES. AT INTERFACE WITH WWF, LAP BARS DISTANCE L_d INTO WWF-REINFORCED SLAB.
5. SEE LATERAL FRAME ELEVATIONS FOR BEAM SIZES NOT INDICATED ON PLANS.



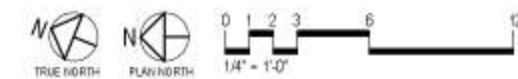
1 FLOOR PLAN - LEVEL 3
1/8" = 1'-0"





1 ENLARGED FLOOR PLAN - LEVEL 3
1/4" = 1'-0"

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REFERENCE DRAWINGS

- 90. ABBREVIATIONS, DRAWING SYMBOLS, GENERAL NOTES
- 91. LOAD MAPS
- 92. PLANS
- 93. ELEVATIONS
- 94. TYPICAL DETAILS AND SCHEDULES
- 95. CONCRETE SECTIONS AND DETAILS
- 96. STEEL SECTIONS AND DETAILS

- NEW CONCRETE WALL
- NEW CONCRETE COLUMN
- EXISTING CONCRETE WALL
- EXISTING CONCRETE COLUMN
- NEW FRP STRENGTHENING

NOTES

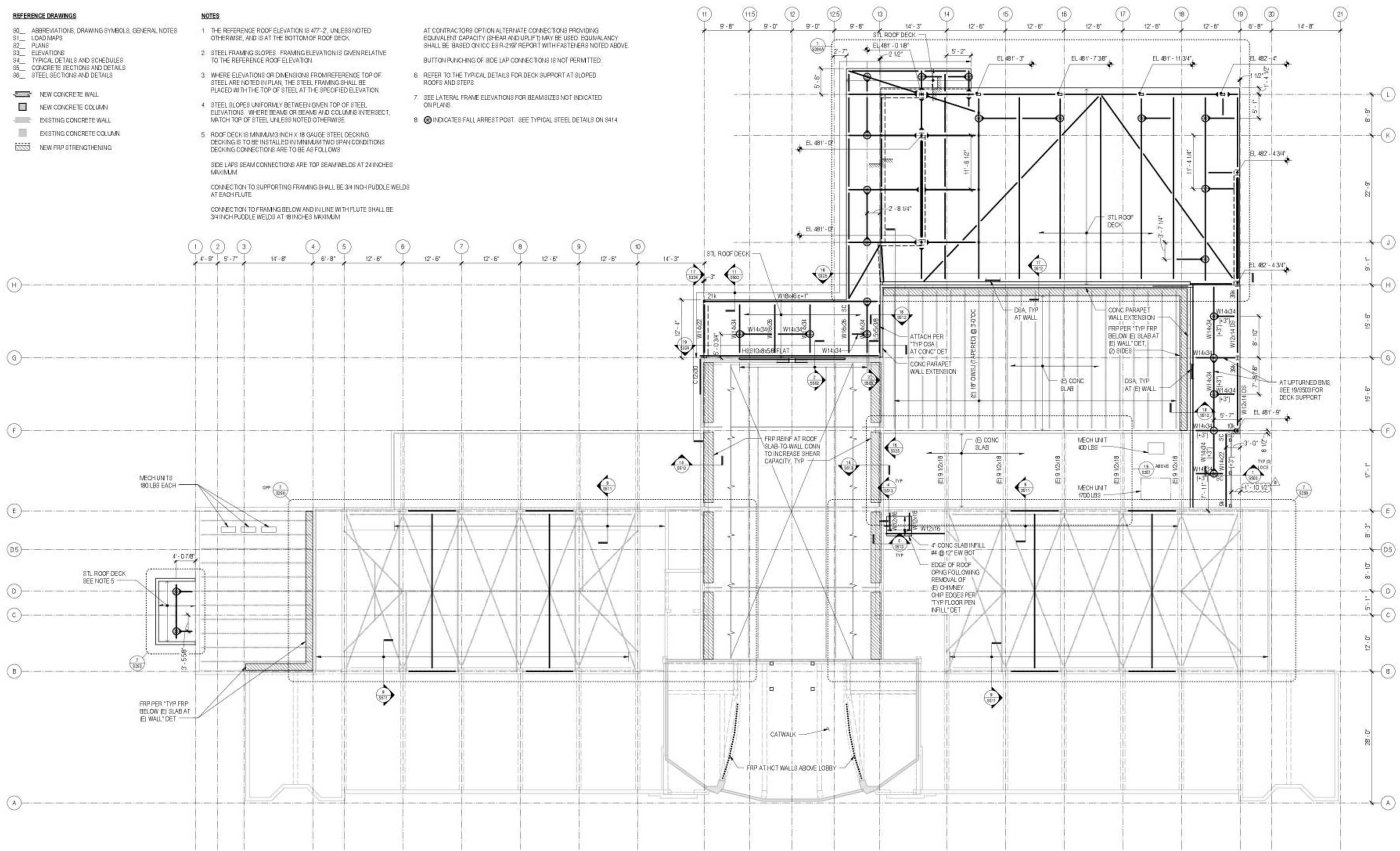
1. THE REFERENCE ROOF ELEVATION IS 477'-2", UNLESS NOTED OTHERWISE, AND IS AT THE BOTTOM OF ROOF DECK.
2. STEEL FRAMING SLOPES: FRAMING ELEVATION IS GIVEN RELATIVE TO THE REFERENCE ROOF ELEVATION.
3. WHERE ELEVATIONS OR DIMENSIONS FROM REFERENCE TOP OF STEEL ARE NOTED IN PLAN, THE STEEL FRAMING SHALL BE PLACED WITH THE TOP OF STEEL AT THE SPECIFIED ELEVATION.
4. STEEL SLOPES UNIFORMLY BETWEEN GIVEN TOP OF STEEL ELEVATIONS. WHERE BEAMS OR BEAMS AND COLUMNS INTERSECT, MATCH TOP OF STEEL UNLESS NOTED OTHERWISE.
5. ROOF DECK IS MINIMUM 3/8 INCH X 18 GAUGE STEEL DECKING. DECKING IS TO BE INSTALLED IN MINIMUM TWO SPAN CONDITIONS. DECKING CONNECTIONS ARE TO BE AS FOLLOWS:

SIDE LAP SEAM CONNECTIONS ARE TOP SEAM WELDS AT 24 INCHES MAXIMUM.

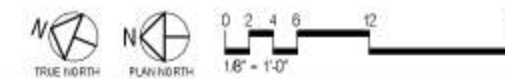
CONNECTION TO SUPPORTING FRAMING SHALL BE 3/4 INCH PUDDLE WELDS AT EACH FLUTE.

CONNECTION TO FRAMING BELOW AND IN LINE WITH FLUTE SHALL BE 3/4 INCH PUDDLE WELDS AT 18 INCHES MAXIMUM.

- AT CONTRACTOR'S OPTION ALTERNATE CONNECTIONS PROVIDING EQUIVALENT CAPACITY (SHEAR AND UPLIFT) MAY BE USED. EQUIVALENCY SHALL BE BASED ON ICC ESR-2189 REPORT WITH FASTENERS NOTED ABOVE.
- BUTTON PUNCHING OF SIDE LAP CONNECTIONS IS NOT PERMITTED.
6. REFER TO THE TYPICAL DETAILS FOR DECK SUPPORT AT SLOPED ROOFS AND STEPS.
 7. SEE LATERAL FRAME ELEVATIONS FOR BEAM SIZES NOT INDICATED ON PLANS.
 8. INDICATES FALL ARREST POST. SEE TYPICAL STEEL DETAILS ON S414.



1 FLOOR PLAN - LEVEL 4
1/8" = 1'-0"



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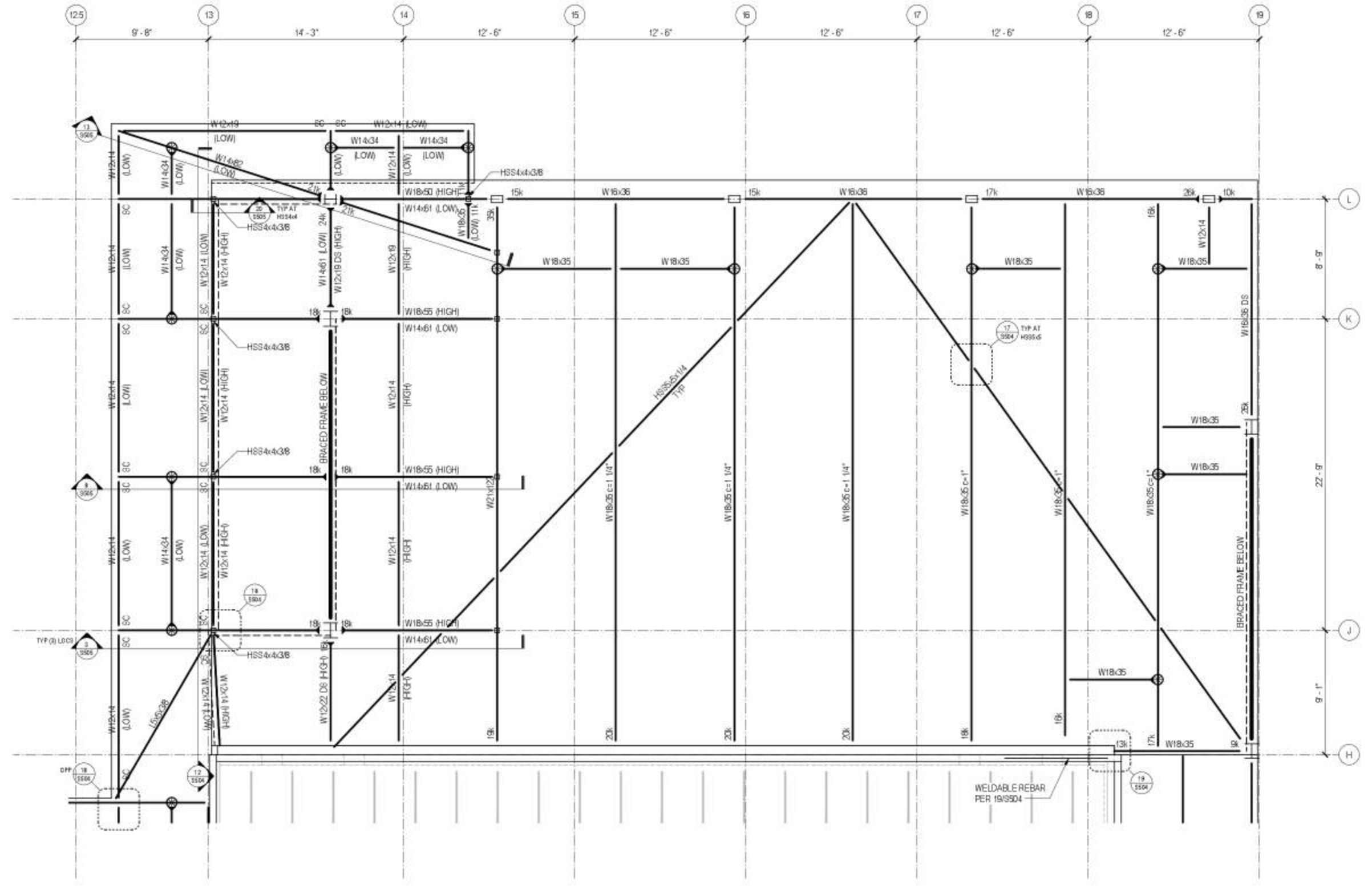
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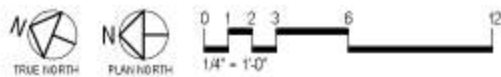
FLOOR PLAN - LEVEL 4

S204

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1 ENLARGED FLOOR PLAN - LEVEL 4
1/4" = 1'-0"



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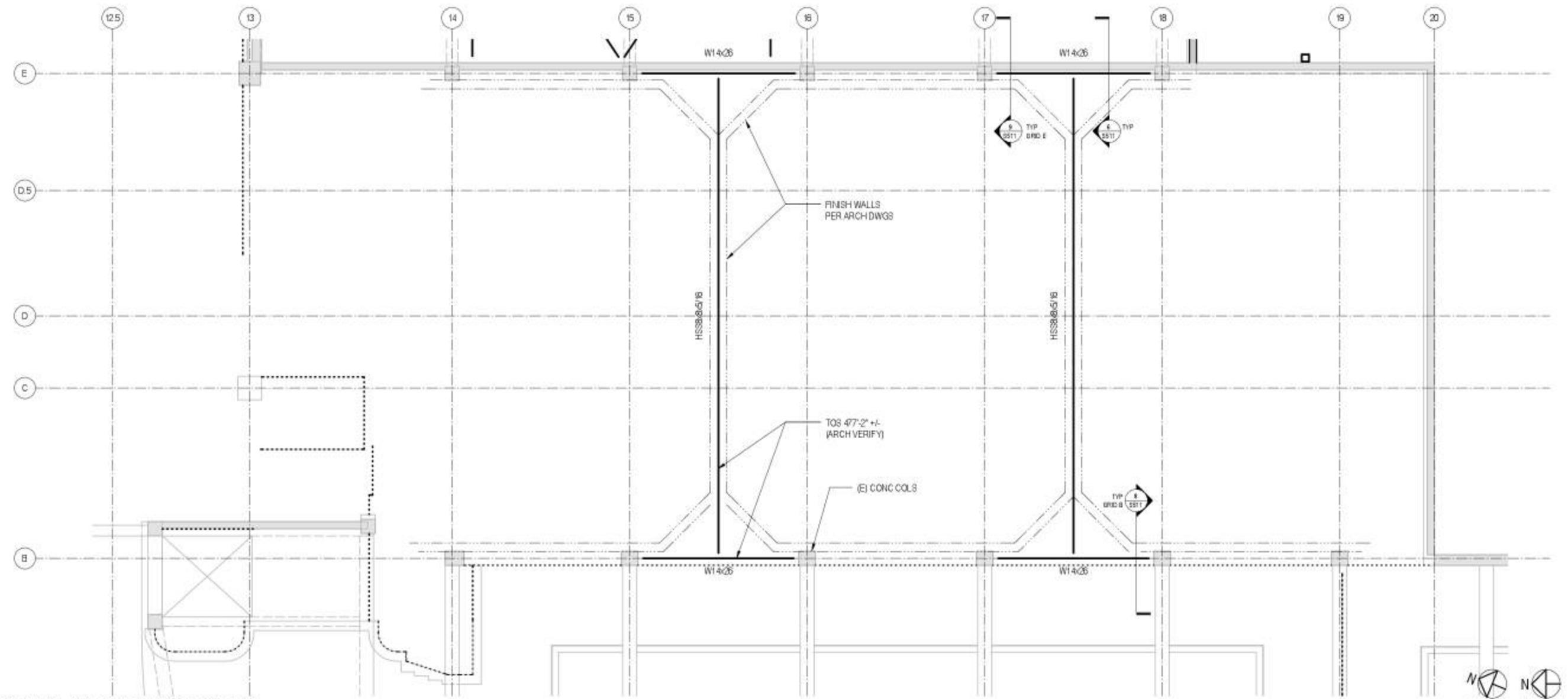
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Date: 6/23/2017

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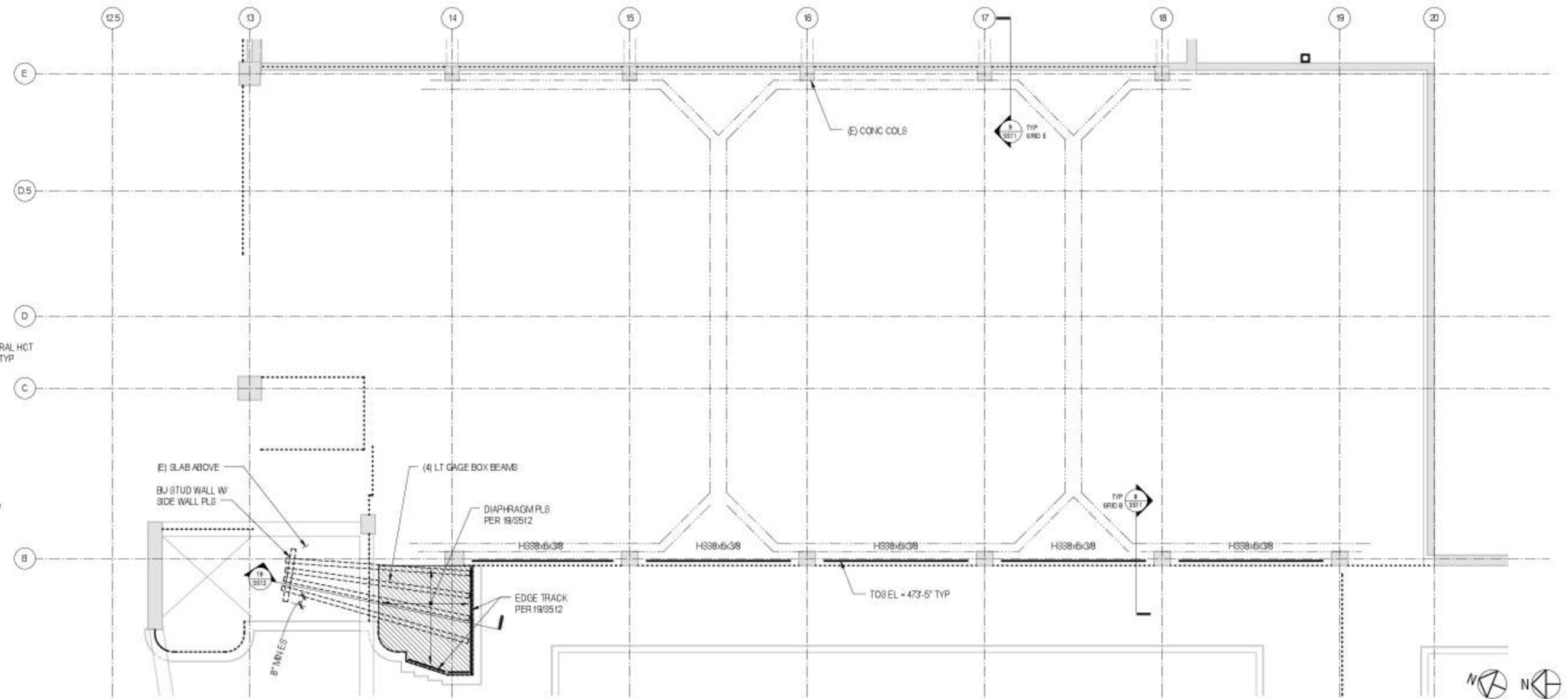
ENLARGED
GALLERY
EXPANSION
FLOOR PLAN -
LEVEL 4

Sheet
Number

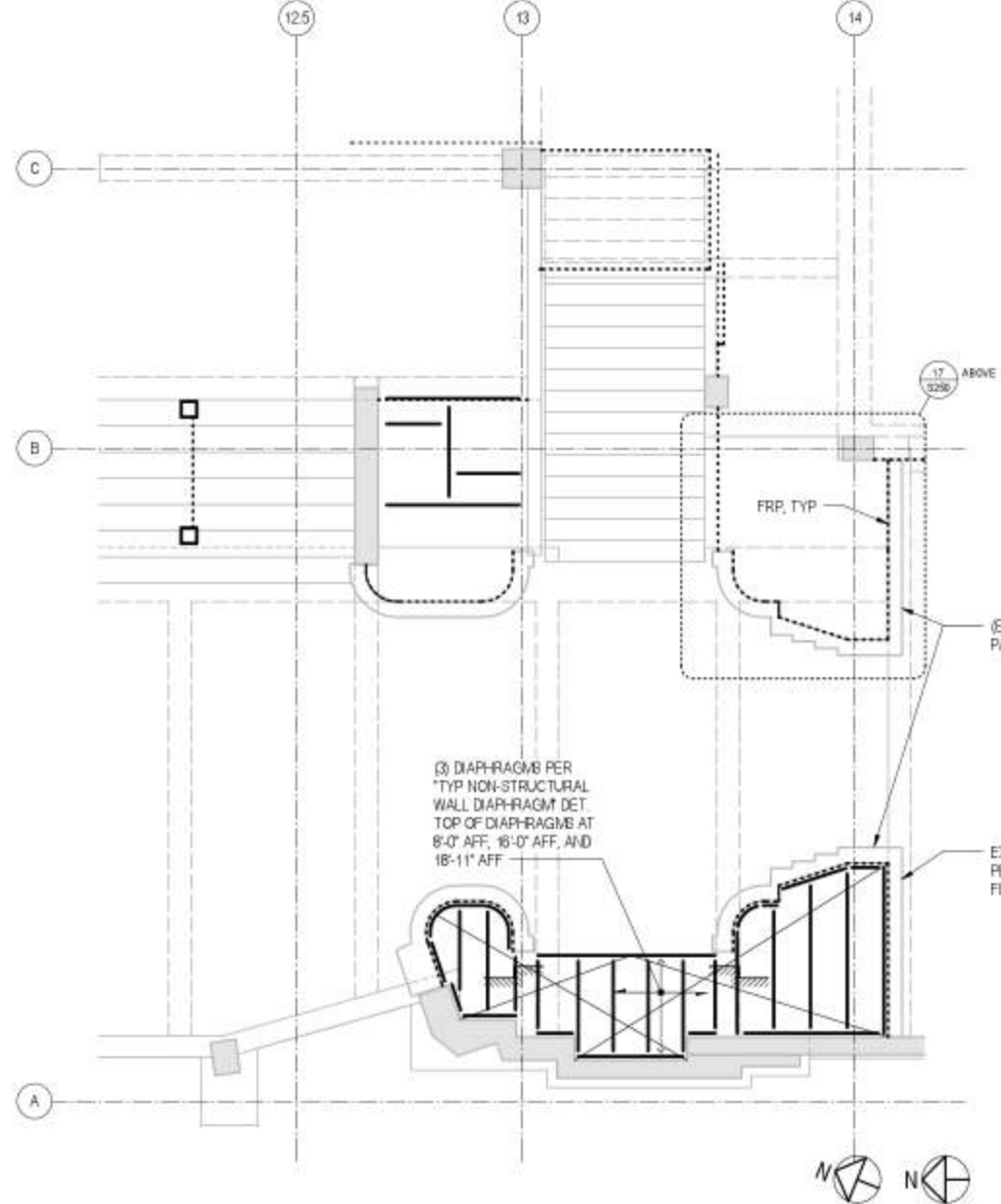
S204A



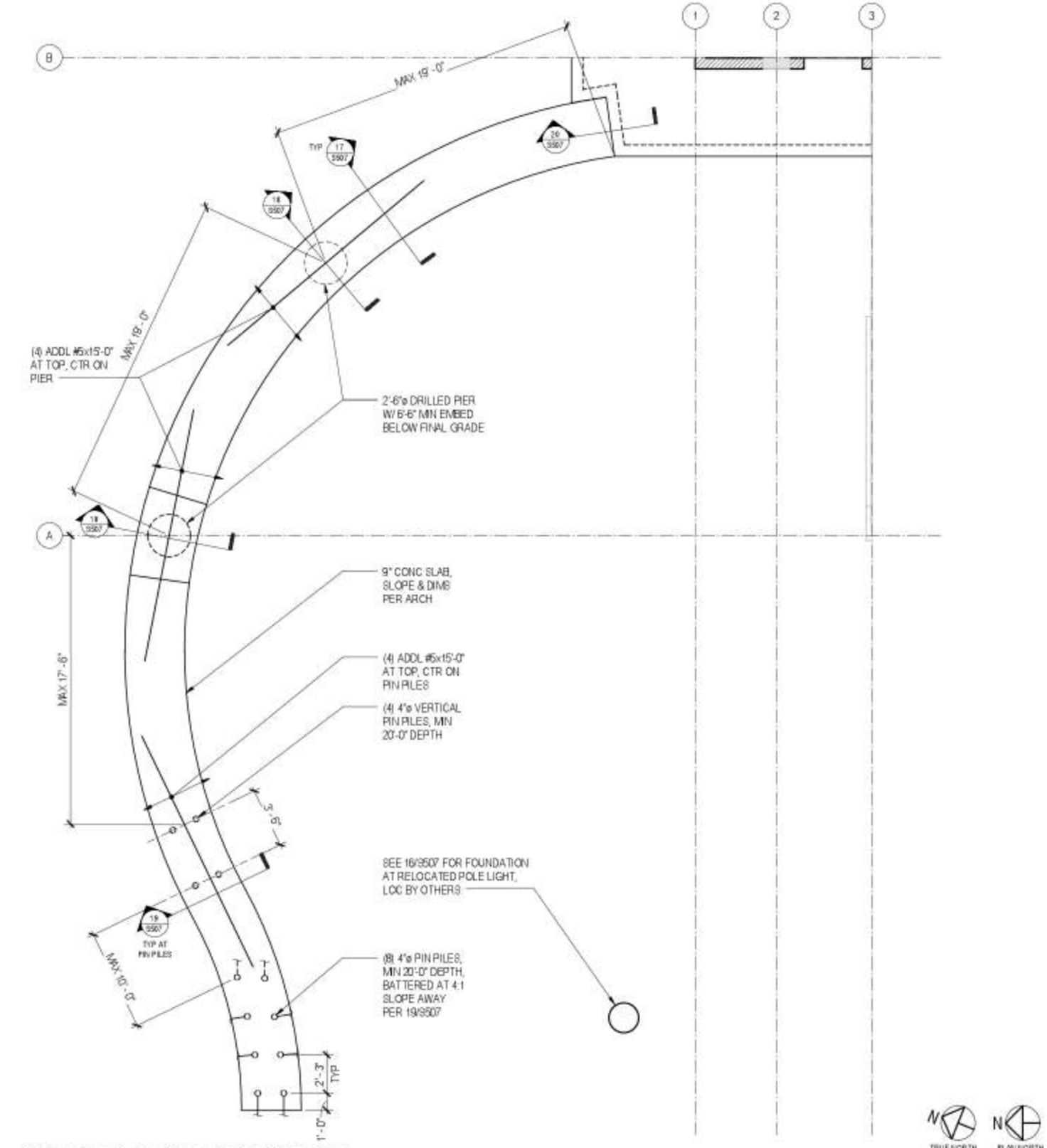
7 PARTIAL PLAN AT CEILING FRAMING
1/4" = 1'-0"



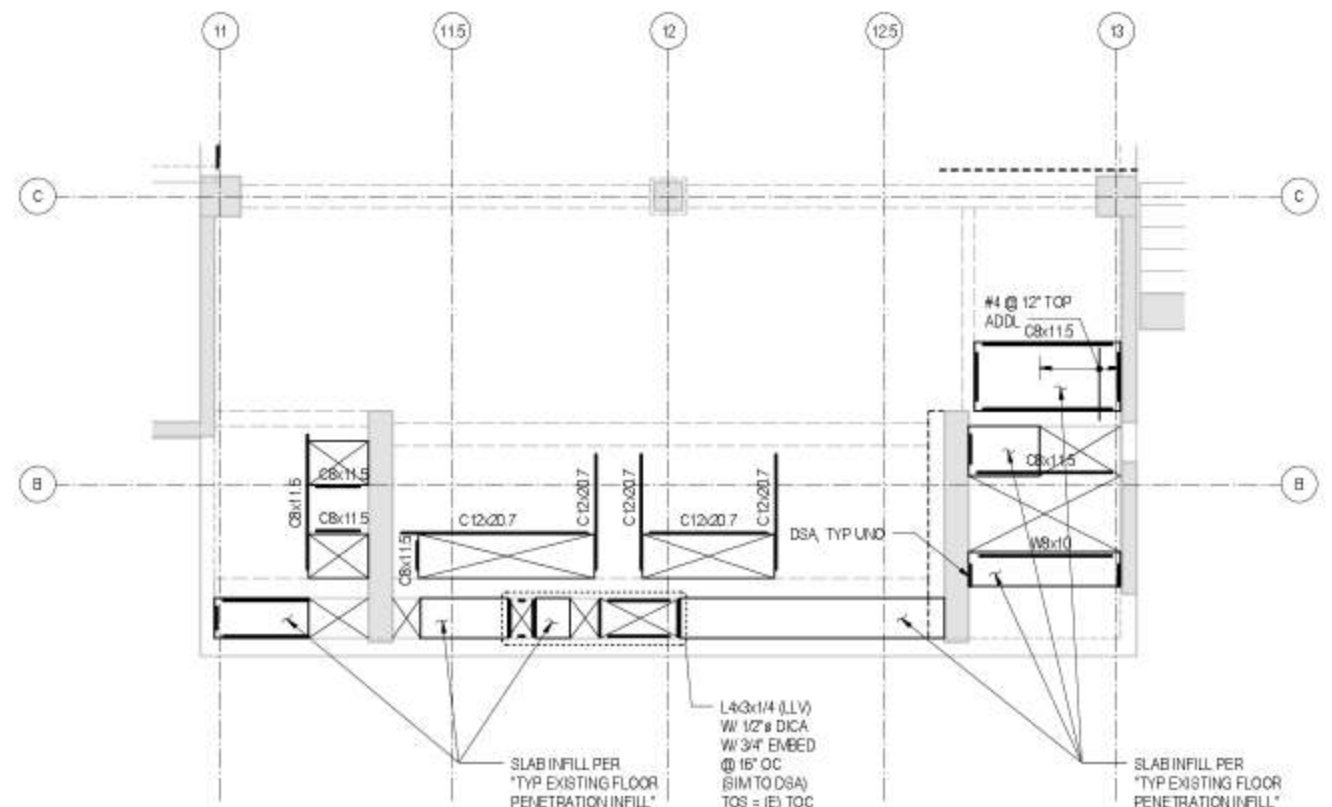
17 PARTIAL PLAN AT FRP WALL HEAD
1/4" = 1'-0"



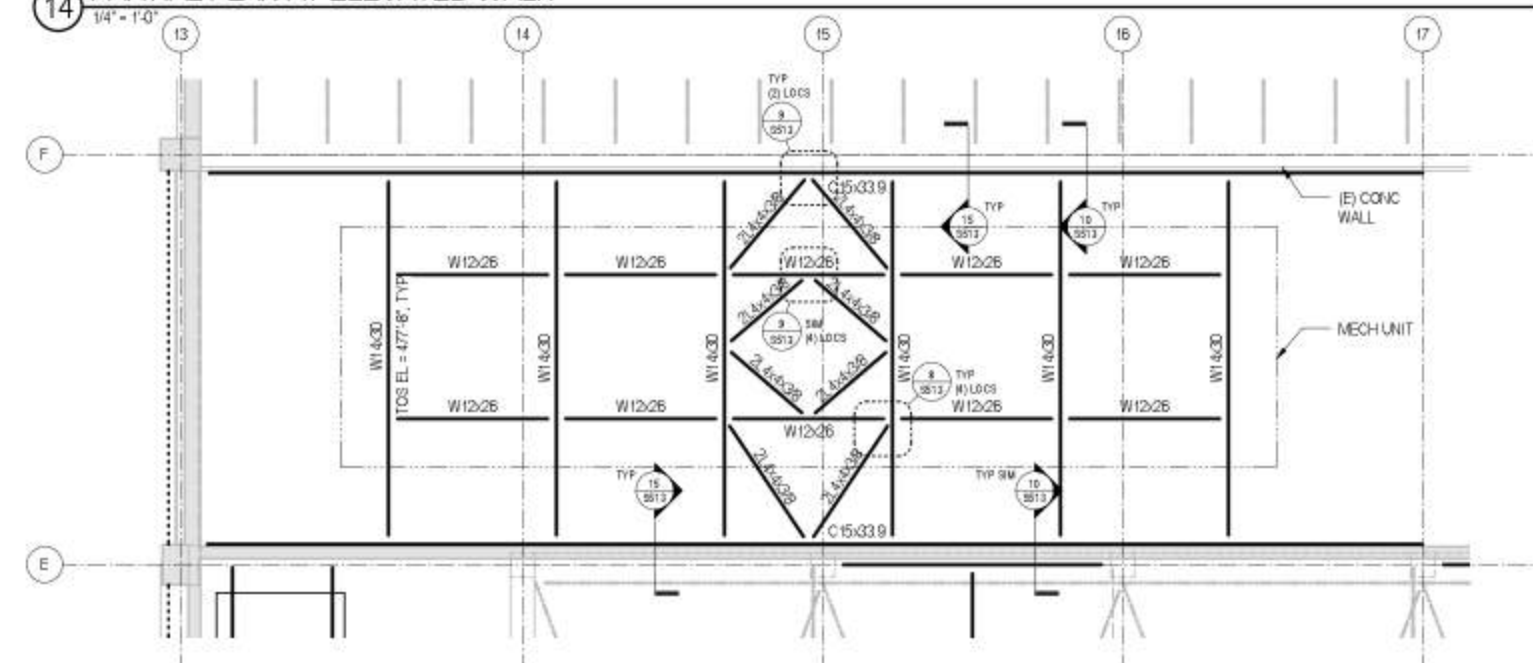
16 PARTIAL PLAN AT LEVEL 3 FRP WALLS
1/4" = 1'-0"



14 PARTIAL PLAN AT ELEVATED WALK
1/4" = 1'-0"



17 PARTIAL PLAN AT LEVEL 2 MECHANICAL OPENINGS
1/4" = 1'-0"



19 PARTIAL PLAN AT MECH PLATFORM
1/4" = 1'-0"

- NOTES:
1. AT SLAB INFILL, MATCH EXISTING SLAB THICKNESS. REINFORCE WITH #5 @ 12" BOTTOM. DRILL AND EPOXY #4 DOWELS WITH 6-INCH MINIMUM EMBED INTO ADJACENT EXISTING CONCRETE WALLS.
 2. CONTRACTOR TO INSTALL SUPPORT FRAMING OR SHORE PRIOR TO CUTTING OPENINGS IN THE EXISTING SLAB.
 3. SEE "TYPICAL INFILL STEEL BEAM END CONNECTION FOR ADDITIONAL INFORMATION."
 4. FOR MEMBERS SHOWN SUPPORTING NEW INFILL, PROVIDE 5/8" x 3" STUDS @ 12" ON CENTER.
 5. PRIOR TO CORING OR CUTTING THROUGH EXISTING CONCRETE FRAMING, LOCATE EXISTING REINFORCING AND PROVIDE TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

- NOTES:
1. SUPPORT FRAME DESIGN IS BASED ON SCHEMATIC DRAWINGS FOR AIRSTACK UNITS. DESIGN OPERATING WEIGHT = 8.7K EACH UNIT. TOTAL DESIGN WEIGHT = 45.5K TOTAL OPERATING WEIGHT ALL (B) UNITS.
 2. CONTRACTOR AND EQUIPMENT SUPPLIER TO COORDINATE FRAMING LAYOUT WITH MECHANICAL UNIT SUPPORT REQUIREMENTS.
 3. ALL STRUCTURAL STEEL, INCLUDING CONNECTIONS SHALL BE GALVANIZED. FIELD WELD PERMITTED ONLY WITH APPROVAL FROM ENGINEER OF RECORD.

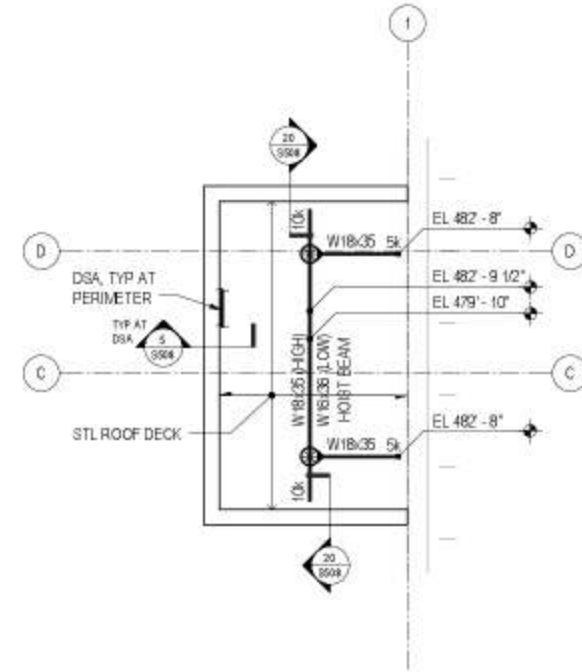
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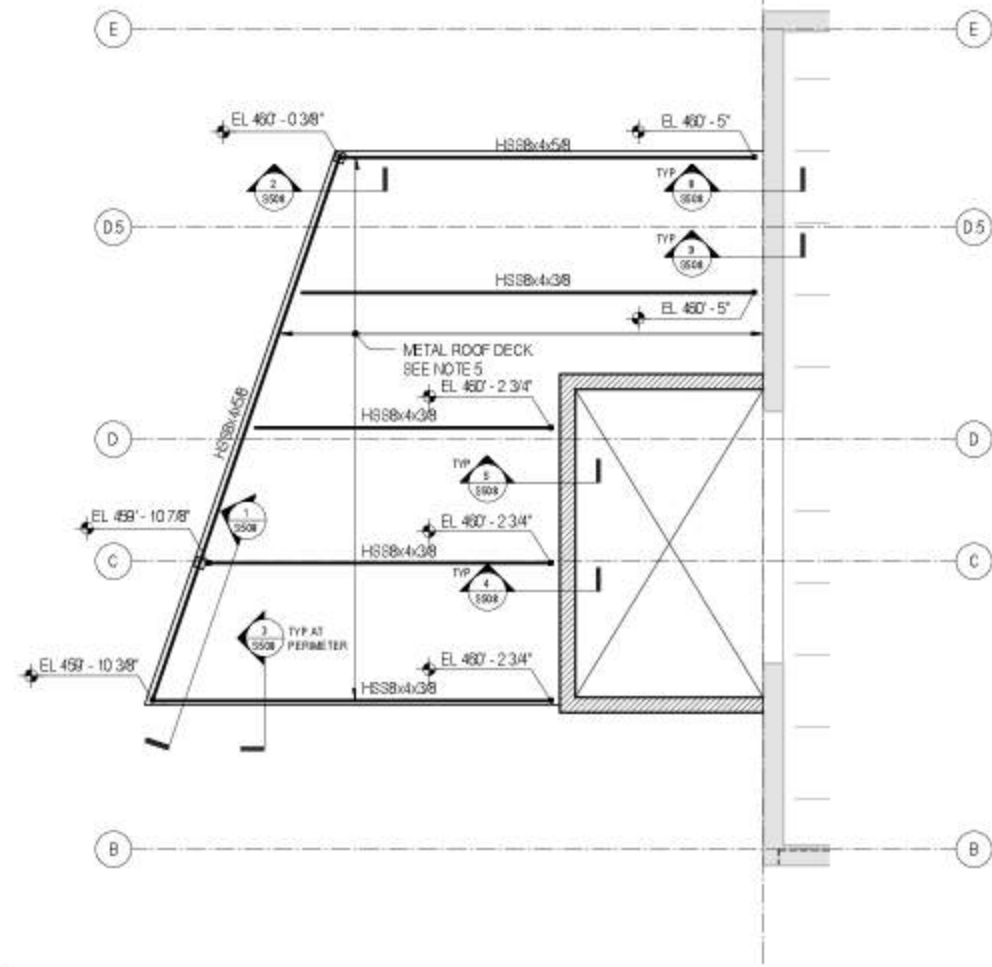
NOTES:

- HOIST BEAM DESIGNED FOR MAXIMUM 10k (FACTORED) LIFTING LOAD, PER EMAIL CORRESPONDENCE ON MAY 18, 2017.

7 PARTIAL PLAN AT ELEVATOR ROOF
1/4" = 1'-0"



9 PARTIAL PLAN AT LOADING DOCK ROOF
1/4" = 1'-0"



NOTES:

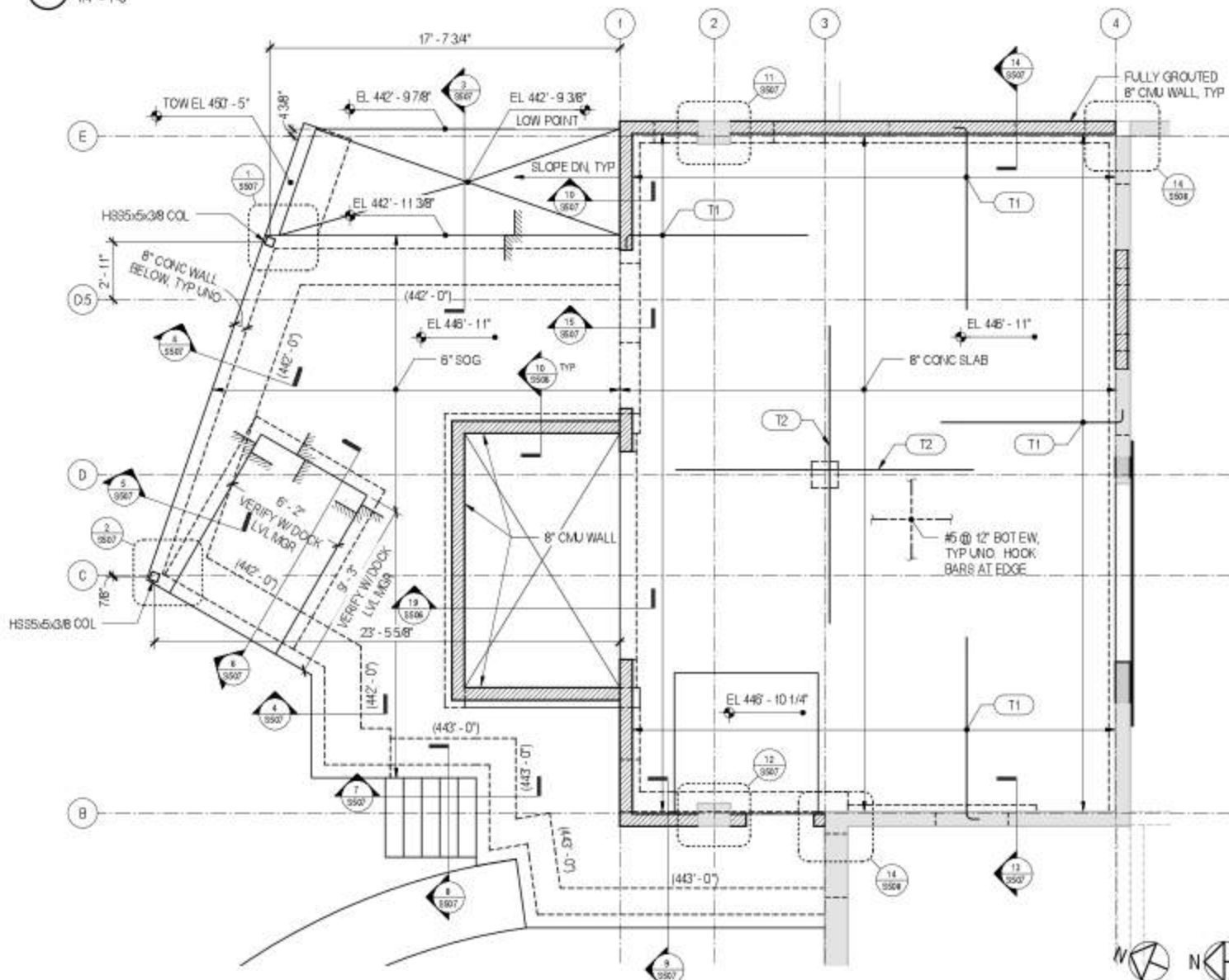
- THE REFERENCE ROOF ELEVATION IS 480'-5", UNLESS NOTED OTHERWISE, AND IS AT THE BOTTOM OF ROOF DECK.
 - REFERENCE TOP OF STEEL ELEVATION IS AT THE REFERENCE ROOF ELEVATION, UNLESS NOTED OTHERWISE.
 - WHERE ELEVATIONS OR DIMENSIONS FROM REFERENCE TOP OF STEEL ARE NOTED IN PLAN, THE STEEL FRAMING SHALL BE PLACED WITH THE TOP OF STEEL AT THE SPECIFIED ELEVATION.
 - STEEL SLOPES UNIFORMLY BETWEEN GIVEN TOP OF STEEL ELEVATIONS WHERE BEAMS OR BEAMS AND COLUMNS INTERSECT, MATCH TOP OF STEEL UNLESS NOTED OTHERWISE.
 - ROOF DECK IS MINIMUM 1/2 INCH X 20 GAUGE STEEL DECKING DECORING IS TO BE INSTALLED IN MINIMUM TWO SPAN CONDITIONS. DECORING CONNECTIONS ARE TO BE AS FOLLOWS:
SIDE LAPS SEAM CONNECTIONS ARE #10 AT 8 INCHES.
CONNECTION TO SUPPORTING FRAMING SHALL BE 3/4 INCH PUDDLE WELDS AT 36 INCH ATTACHMENT PATTERN.
- AT CONTRACTOR'S OPTIONAL, TERMINATE CONNECTIONS PROVIDING EQUIVALENT CAPACITY (SHEAR AND UPLIFT) MAY BE USED. EQUIVALENCY SHALL BE BASED ON ICC ESR-2187 REPORT WITH FASTENERS NOTED ABOVE. BUTTON PUNCHING OF SIDE LAP CONNECTIONS IS NOT PERMITTED.

NOTES:

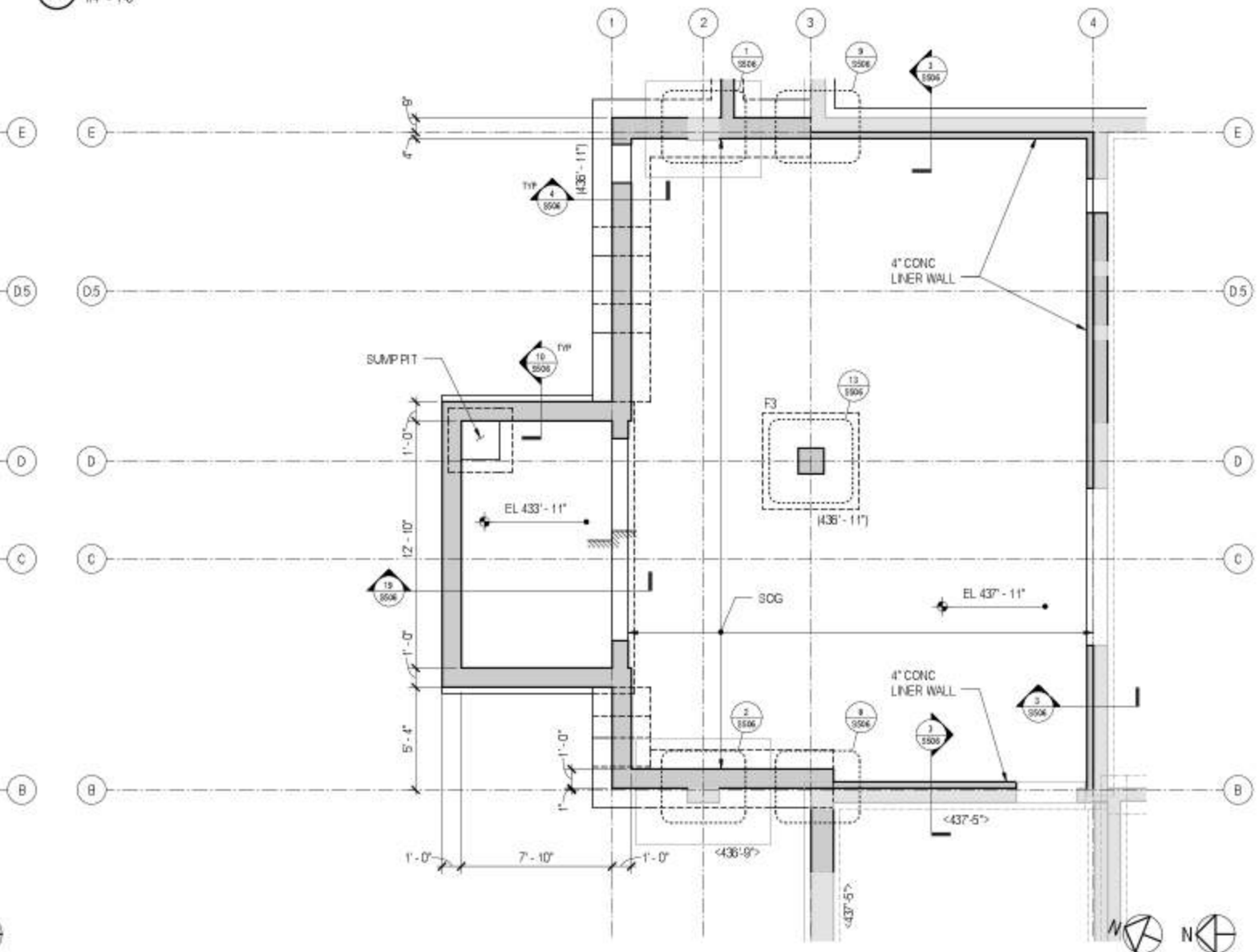
- SEE GENERAL NOTES FOR REINFORCEMENT REQUIREMENTS.
- SLAB REINFORCEMENT SHALL BE PLACED IN THE FOLLOWING SEQUENCE:
E-W BOTTOM BARS
N-S BOTTOM BARS
N-S TOP BARS
E-W TOP BARS
- FOR CONTINUOUS SLAB BOTTOM BARS, LAP BARS AS REQUIRED, WITH LAPS AT 1/3 THE SLAB SPAN BETWEEN ADJACENT SUPPORTS. STAGGER LAPS 2'-0", TYPICAL, UNLESS NOTED OTHERWISE.
- FOR SLAB TOP BARS, CENTER REINFORCEMENT OVER COLUMNS, UNLESS NOTED OTHERWISE. STAGGER TOP BARS PER TOP REINFORCEMENT SCHEDULE.
- TWO OF THE CONTINUOUS BOTTOM BARS ARE TO BE PLACED EACH WAY THROUGH ALL COLUMNS WITHIN COLUMN VERTICAL REINFORCEMENT UNLESS NOTED OTHERWISE.
- WHERE REINFORCEMENT IS INTERRUPTED BY BLOCKOUTS OR OPENINGS, HOOK BARS AND PLACE EQUIVALENT REINFORCEMENT ON EITHER SIDE OF OPENINGS. SEE TYPICAL SLAB REINFORCEMENT DETAILS. NOTIFY STRUCTURAL ENGINEER OF ANY OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR WHICH THE TYPICAL DETAILS DO NOT APPLY. ADDITIONAL REINFORCEMENT MAY BE REQUIRED.
- WHERE BAR LENGTH CANNOT BE ACHIEVED DUE TO SLAB EDGE, HOOK BAR.
- SEE TYPICAL CONCRETE REINFORCING AT INTERSECTIONS OF SLABS AND WALLS. DETAIL FOR REINFORCEMENT AT SLAB TO WALL INTERFACE.
- WHERE NOTED AS 'HOOKED', PROVIDE 90 OR 180 DEGREE HOOK AS SHOWN ON PLAN. NOTED BAR LENGTH IS LENGTH OF STRAIGHT PORTION OF BAR AND LENGTH OF HOOK SHALL BE ADDED TO BAR BEFORE BENDING.

TOP REINFORCING SCHEDULE		
MARK	REINFORCING	REMARKS
T1	#5 @ 2'-0" @ 12"	HOOK AT END
T2	#5 @ 15'-0" @ 12"	STAGGER 2'-0"

16 SLAB REINFORCING NOTES AND SCHEDULE

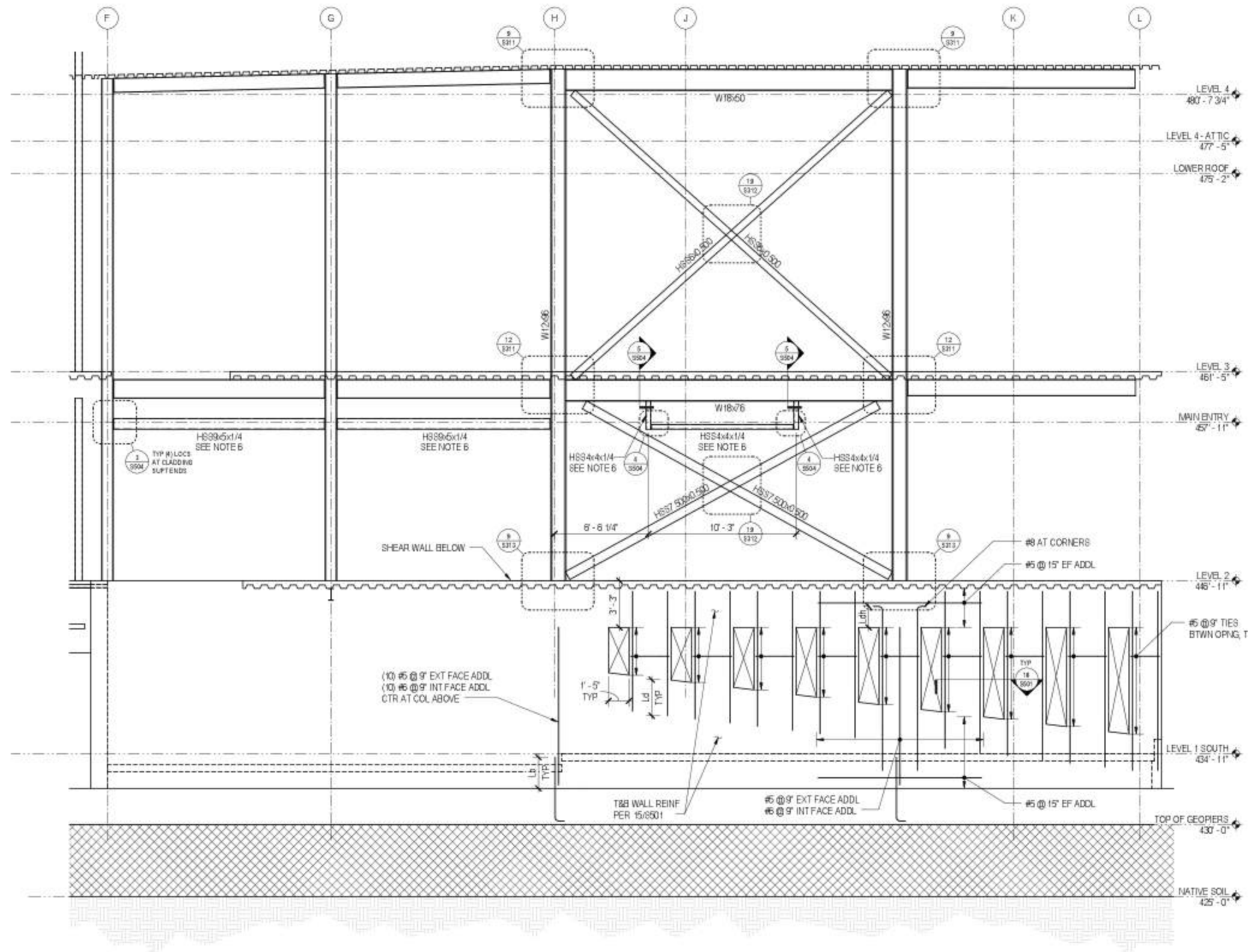


17 PARTIAL PLAN AT LEVEL 2 LOADING DOCK
1/4" = 1'-0"

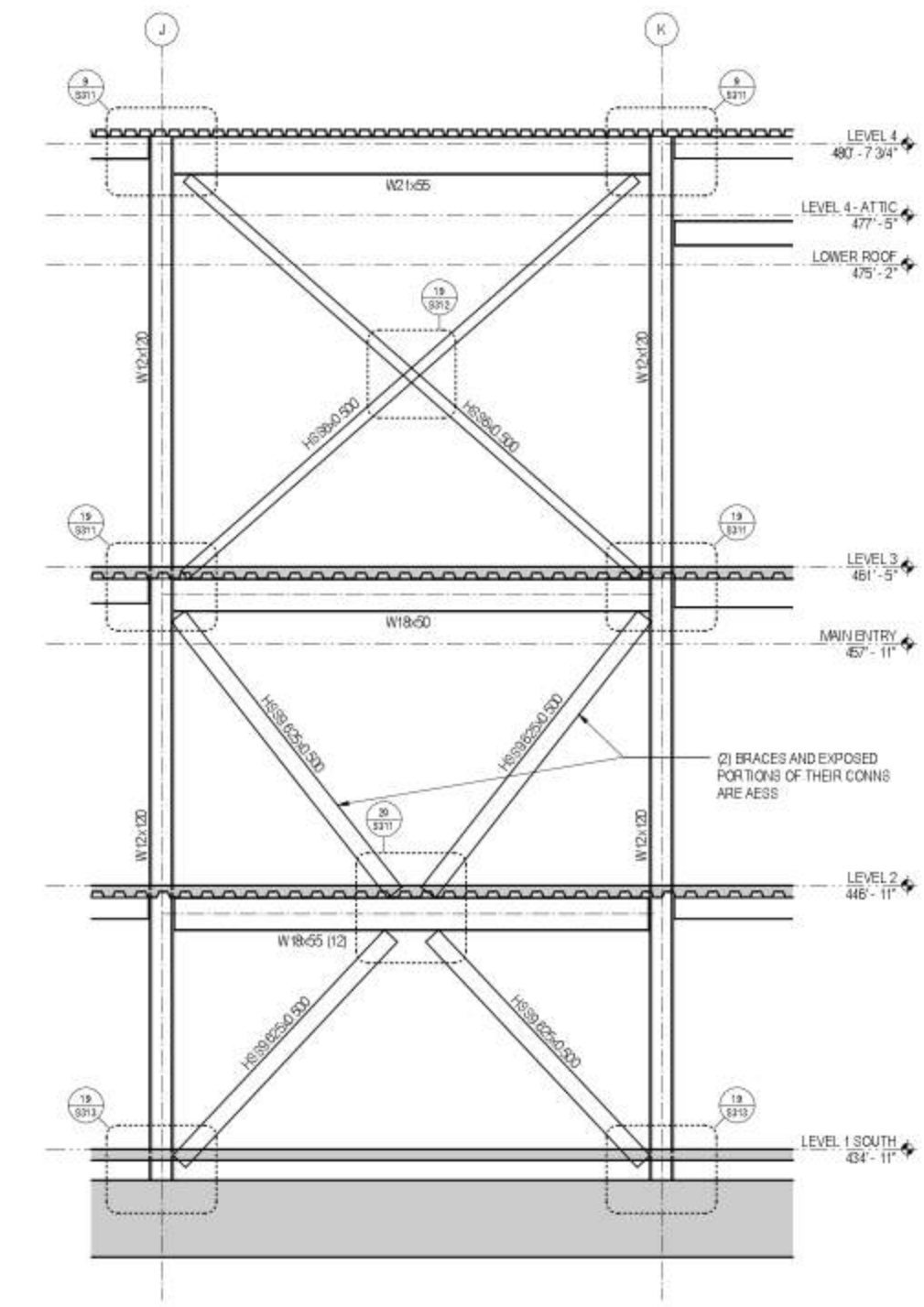


19 PARTIAL PLAN AT LEVEL 1 LOADING DOCK
1/4" = 1'-0"





7 SOUTH BRACED FRAME ELEVATION ALONG GRID 19
1/4" = 1'-0"



10 NORTH BRACED FRAME ELEVATION ALONG GRID 13.7
1/4" = 1'-0"

- NOTES:
1. SEE "BRACED FRAME GENERAL NOTES"
 2. ALL BRACED FRAME STEEL, ITS CONNECTIONS, AND CONCRETE FOUNDATION ELEMENTS BELOW ARE PART OF THE SEISMIC LOAD RESISTING SYSTEM (SLRS).
 3. BEAMS MAY BE ONLY PARTIALLY COVERED BY CONCRETE SLAB. LOCATE ALL STUDS ON PORTION OF BEAMS WITH CONCRETE ABOVE.
 4. SEE PLANS FOR BEAM ELEVATIONS, UNLESS NOTED OTHERWISE.
 5. BRACE INTERSECTIONS OCCUR MIDSPAN BETWEEN ADJACENT COLUMNS, UNLESS NOTED OTHERWISE.
 6. COORDINATE BOTTOM OF STEEL ELEVATION WITH CLADDING CONTRACTOR. CLADDING SUPPORT MEMBERS NOT PART OF SLFRS.

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Asian Art Museum Expansion & Renovation
Volunteer Park / 1400 E Prospect / Seattle, WA 98112

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Revisions			
No.	Date	By	Description

Sheet Title

BRACED FRAME ELEVATIONS

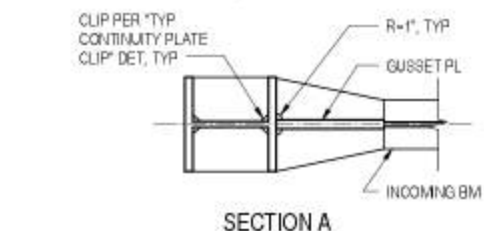
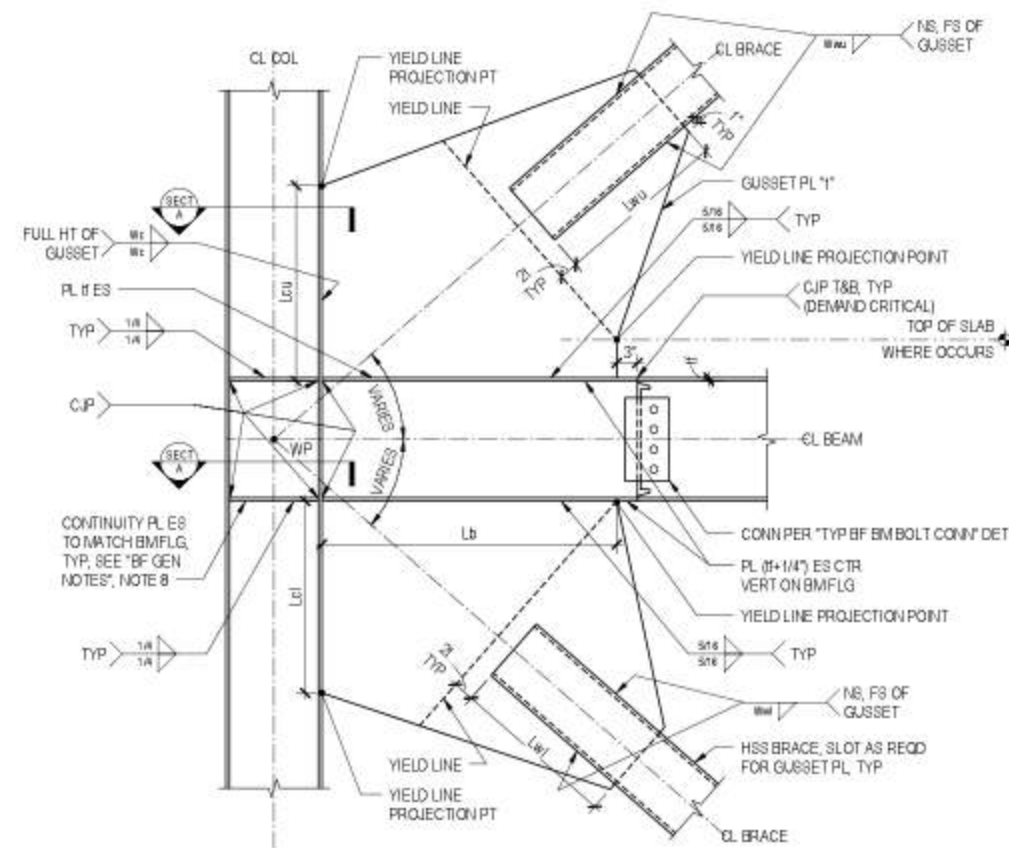
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S301

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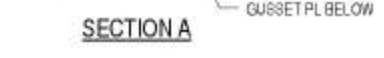
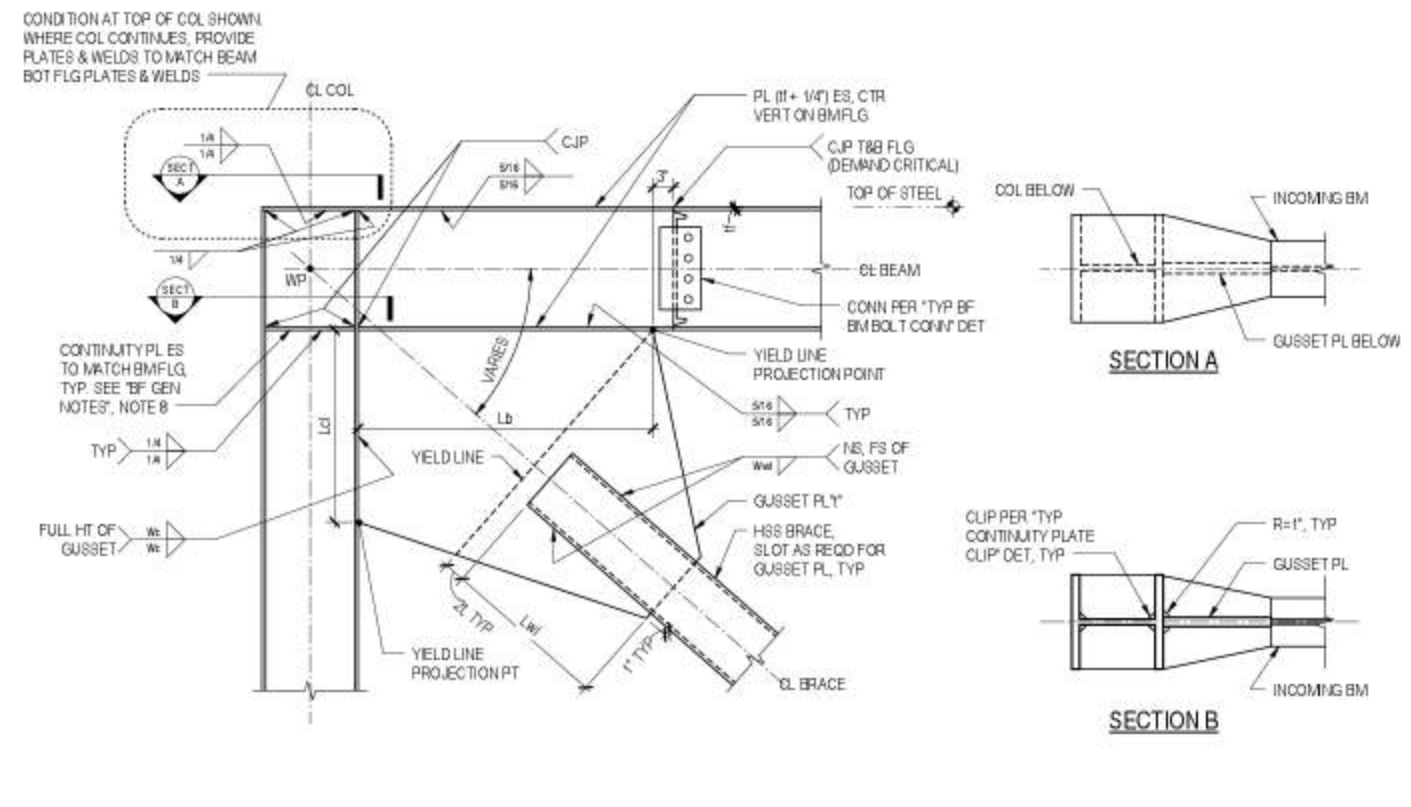
BRACED FRAME TO BEAM CONNECTION SCHEDULE										
GUSSET MARK	t (IN)	Lb (IN)	Wc (IN)	Lwu (IN)	Wku (IN)	Lcu (IN)	Lwl (IN)	Wwl (IN)	Lcl (IN)	REMARKS
SOUTH	1 1/4	24	3/4	8	3/4	14	10	3/4	10	
NORTH	1 1/2	24	3/4	13	3/4	16	13	3/4	18	SEE 19S311 FOR GEOMETRY

12 TYPICAL BRACED FRAME CONNECTION

NOTES:

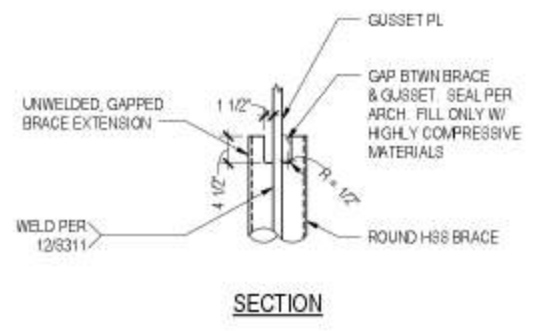
- ALL PLATES SHALL BE A572, Fy = 50 KSI
- SEE TYPICAL STEEL DETAILS FOR BEAM-TO-COLUMN MOMENT CONNECTION
- EACH GUSSET HAS TWO YIELD LINE PROJECTION POINTS, ONE AT CONNECTION TO COLUMN, ONE AT CONNECTION TO BEAM (TOP OF SLAB WHERE OCCURS). THE YIELD LINE PROJECTION POINT RESULTING IN A YIELD LINE FURTHER FROM THE WORK POINT SHALL DETERMINE GUSSET GEOMETRY. YIELD LINES ARE PERPENDICULAR TO BRACE AXES.
- DETAIL GUSSET PLATE TO PROVIDE THE REQUIRED BRACE-TO-GUSSET PLATE, GUSSET PLATE-TO-BEAM AND GUSSET PLATE-TO-COLUMN WELD LENGTHS.
- SLOT WIDTH IN BRACE SHALL BE EQUAL TO THE CONNECTING GUSSET PLATE THICKNESS PLUS A MAXIMUM OF 1/8 INCH TOLERANCE. PROVIDE SLOT PATCH AND SLOT REINFORCING AT ALL BRACE SLOTS INCLUDING BRACE INTERSECTIONS PER 'TYPICAL BRACE SLOT REINFORCING' DETAIL.
- BRACE-TO-GUSSET WELDS CALLED OUT ARE EFFECTIVE WELD LEG LENGTH. WHERE BRACE SLOT WIDTH RESULTS IN GAP AT ROOT OF WELD, INCREASE WELD LEG LENGTH TO COMPENSATE.
- PROVIDE STUDS AT SPACING NOT EXCEEDING 12" ON BRACE FRAME BEAMS AT COMPOSITE SLAB UNLESS NOTED OTHERWISE.
- WHERE STIFF PLATE CONFLICTS WITH OTHER REQUIRED CONNECTION PLATES AT COLUMNS, BREAK STIFF PLATE AT EACH SIDE OF CONFLICTING PLATE AND PROVIDE COMPLETE JOINT PENETRATION WELDS.
- SHOP DRAWINGS SUBMITTED TO THE ENGINEER FOR REVIEW SHALL CLEARLY INDICATE THE BRACE ANGLE, BRACE-TO-GUSSET PLATE WELD LENGTH, VERTICAL GUSSET PLATE LENGTH AND GUSSET PLATE HORIZONTAL LENGTH. YIELD LINE AND BRACE OUTLINE SHALL BE SHOWN.
- WHERE ERECTION BOLTS ARE USED, A SINGLE BOLT SHALL BE PROVIDED AT EACH END OF THE BRACE. ERECTION BOLTS SHALL BE LOCATED WITHIN 4" OF BRACE END.

14 BRACED FRAME GENERAL NOTES



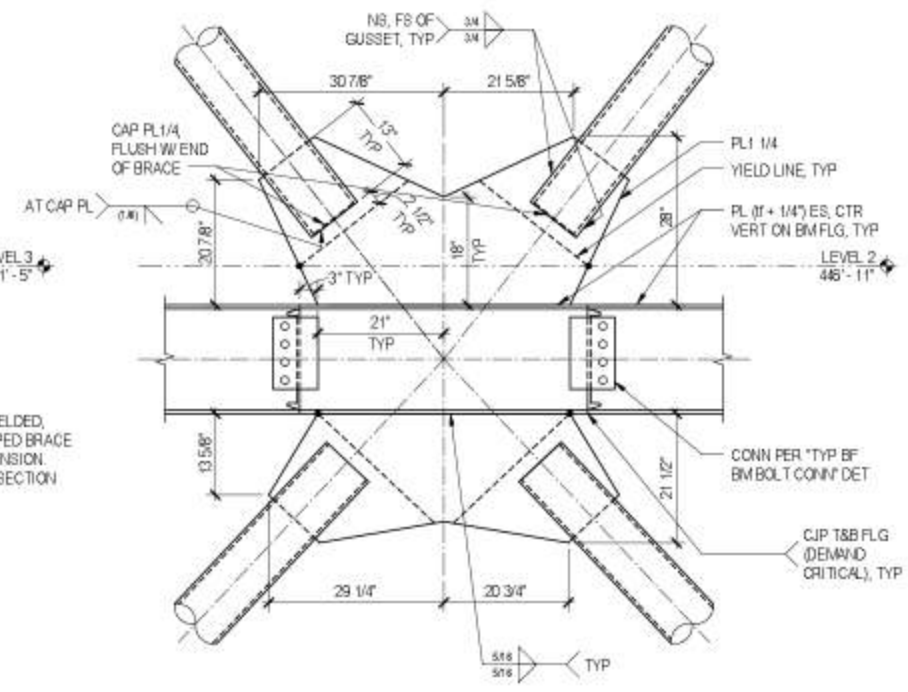
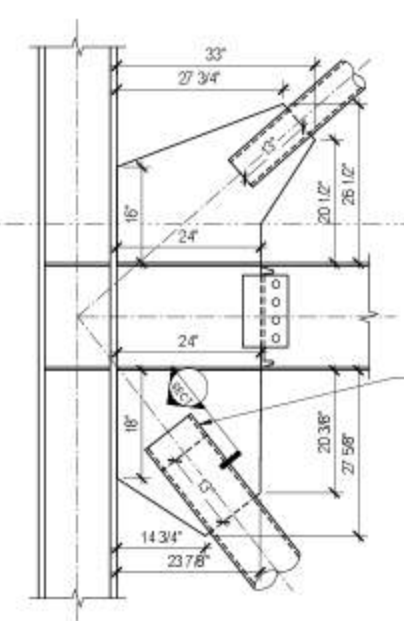
BRACED FRAME TO BEAM CONNECTION SCHEDULE						
GUSSET MARK	t (IN)	Lb (IN)	Wc (IN)	Lwl (IN)	Wwl (IN)	Lcl (IN)
SOUTH	1	15	3/4	8	3/4	7
NORTH	1	15	3/4	8	3/4	7

9 TYPICAL BRACED FRAME CONNECTION

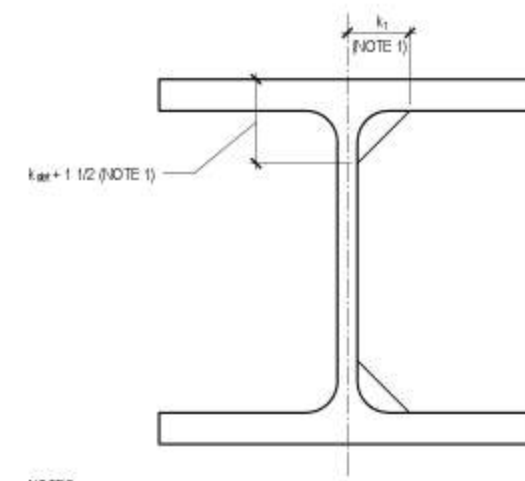


19 BRACED FRAME CONNECTION

- NOTES:
- SEE 12S311 FOR ADDITIONAL INFORMATION

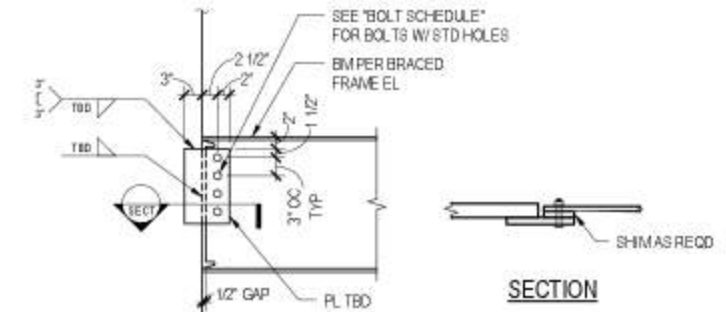


20 BRACED FRAME CONNECTION



NOTES:
1. ALLOWABLE TOLERANCE (±0, +1/4")

4 TYPICAL CONTINUITY PLATE CLIP



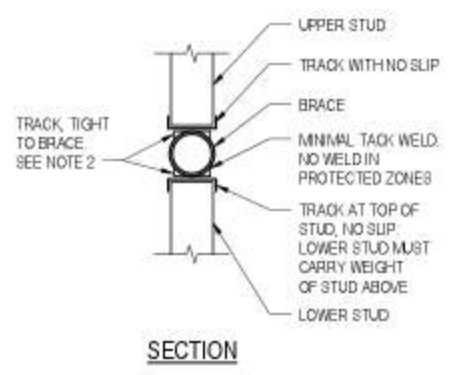
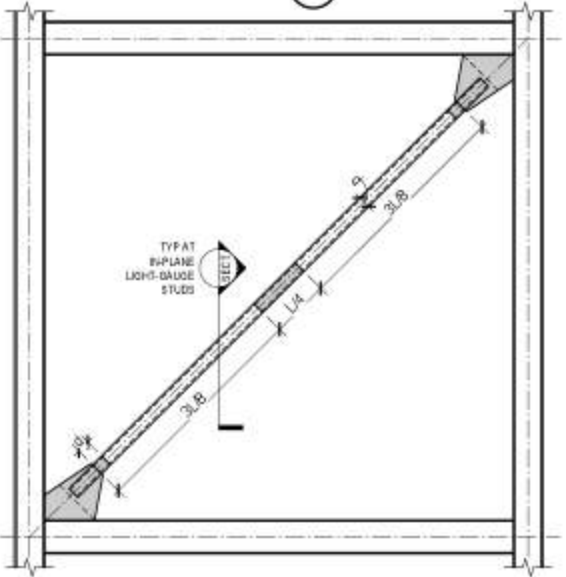
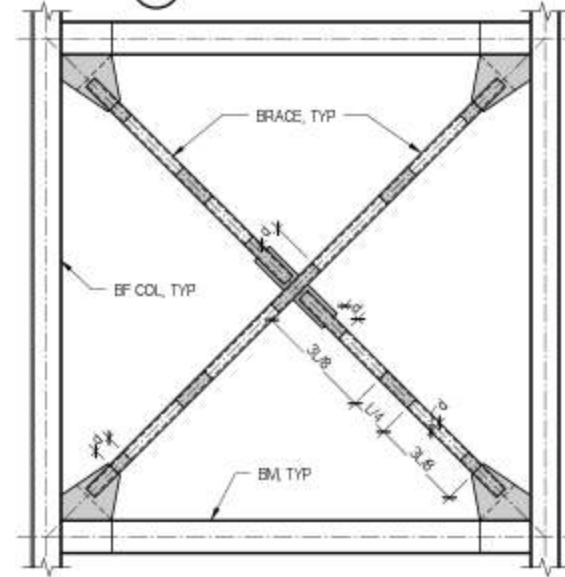
DETAIL AT GUSSET PLATE CONNECTION

BOLT SCHEDULE	
BEAM SIZE	NUMBER OF BOLTS
W14	3
W18	4
W21	5

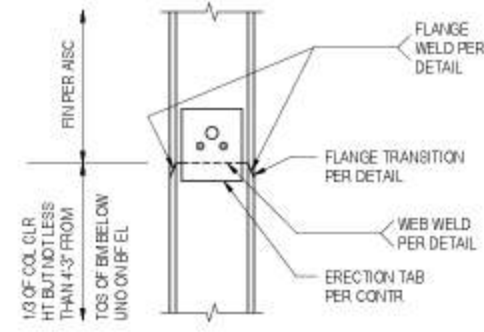
5 TYPICAL BRACED FRAME BEAM BOLT CONN

NOTES:
1. SHADING INDICATES PROTECTED ZONE. MISCELLANEOUS ATTACHMENTS (CLADDING, PLUMBING, ETC) NOT PERMITTED IN THE PROTECTED ZONE.
2. TACK-WELDED CONNECTIONS OF INTERIOR, NON-STRUCTURAL LIGHT GAUGE STUDS ARE ACCEPTABLE OUTSIDE OF THE PROTECTED ZONES. MAXIMUM OUT-OF-PLANE LOADING IS TO BE 10 PSF. SLIP TRACKS SHALL NOT BE USED AT BRACES SUCH THAT BRACES ARE NOT LOADED VERTICALLY.

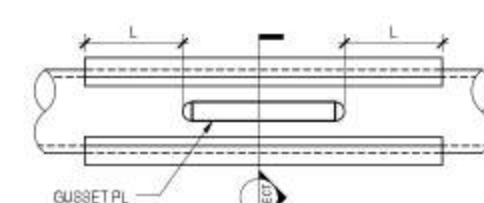
8 TYPICAL BRACE PROTECTED ZONE



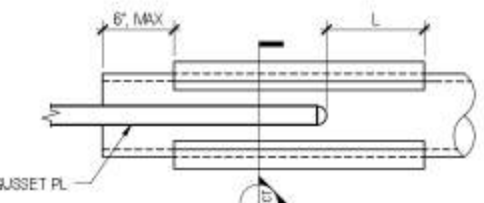
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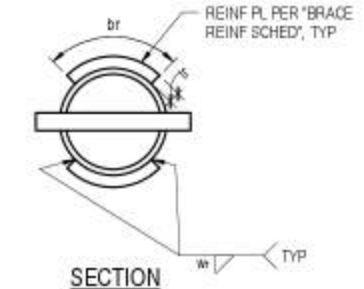
13 BRACED FRAME COLUMN SPLICE



SLOT IN CENTER OF BRACE



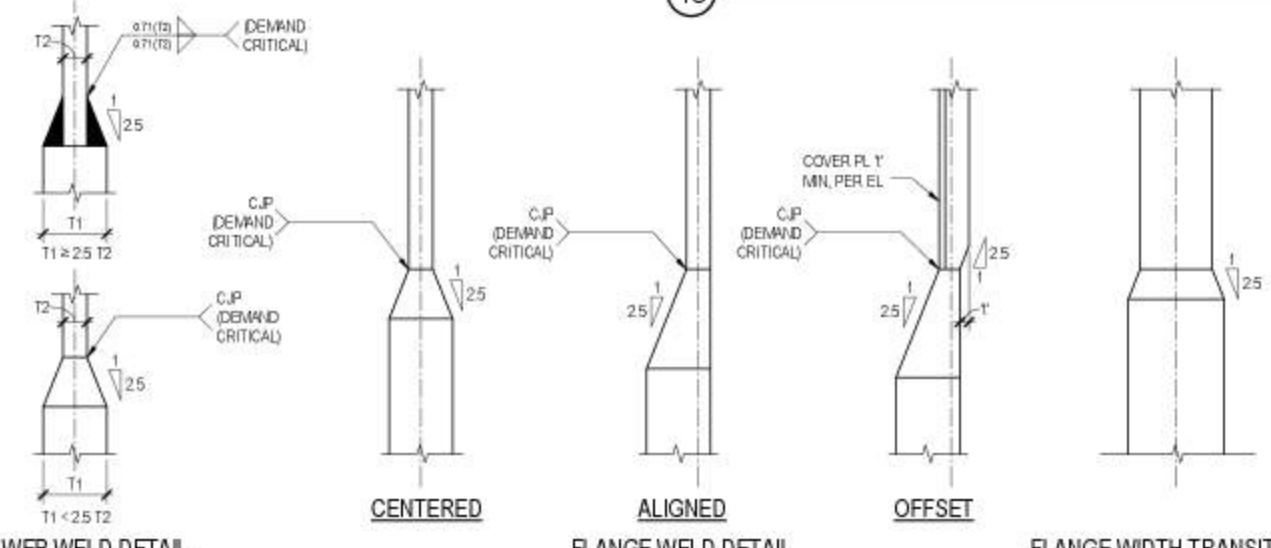
SLOT AT END OF BRACE



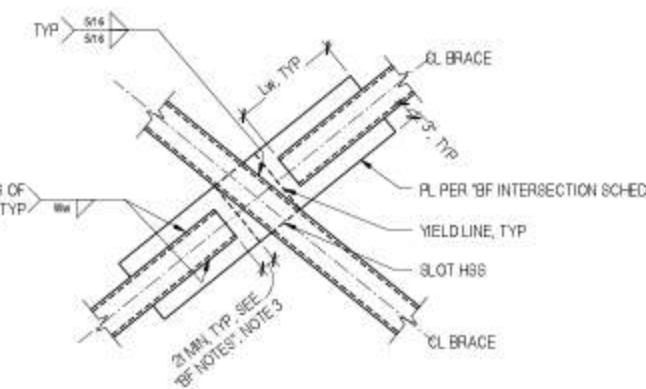
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BRACED FRAME REINFORCING SCHEDULE				
BRACE SIZE	tr (IN)	br (IN)	Wt (IN)	L (IN)
H896x0.500	1/2	6	7/16	11
H897.500x0.500	1/2	7	7/16	12
H898.625x0.500	1/2	8	7/16	14

14 TYPICAL BRACE SLOT REINFORCING



17 TYPE A BRACED FRAME COLUMN SPLICE WELD DETAILS



19 TYPICAL BRACE INTERSECTION

BRACED FRAME INTERSECTION SCHEDULE				
BRACE SIZE	I (IN)	Lw (IN)	Ww (IN)	REMARKS
H896x0.500	1 1/4	13	3/4	
H897.500x0.500	1 1/4	13	3/4	

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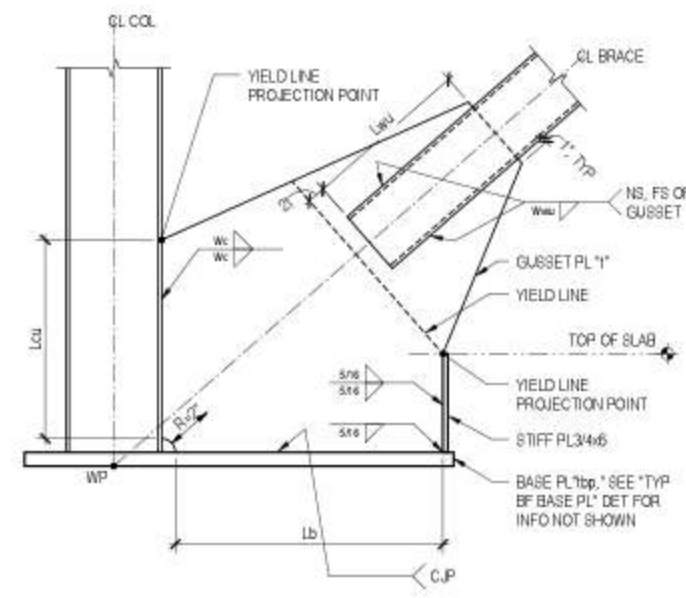
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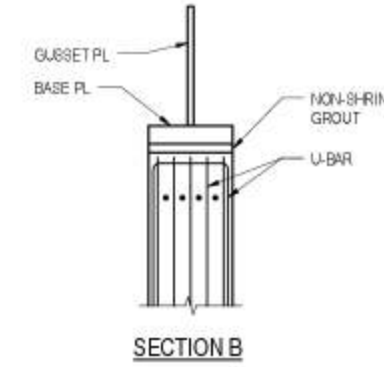
TYPICAL BRACED FRAME CONNECTION SECTIONS AND DETAILS

Sheet Number

S312



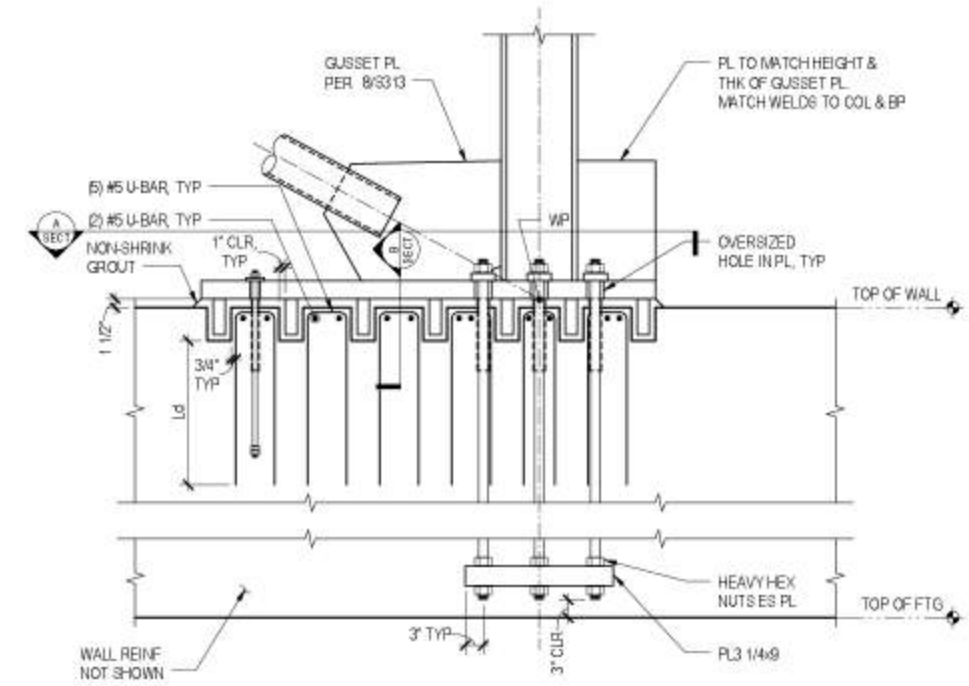
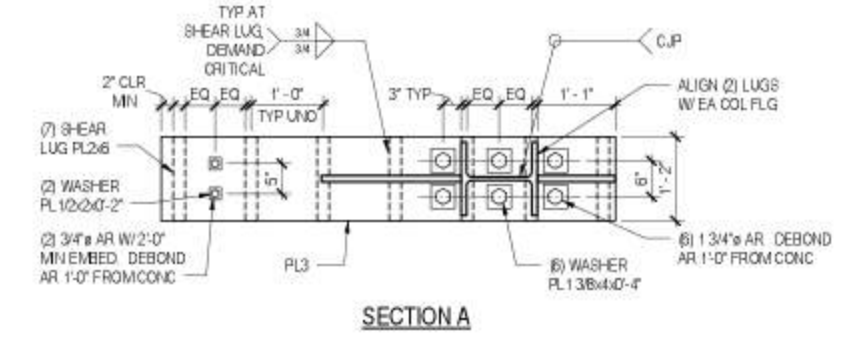
BRACED FRAME BASE PLATE CONNECTION SCHEDULE							
GUSSET MARK	l (IN)	Lb (IN)	Lwu (IN)	Wwu (IN)	Lcu (IN)	Wc (IN)	REMARKS
SOUTH	1	21	10	3/4	20	3/4	STIFF PL TO TOP OF SLAB NOT REQD
NORTH	1 1/2	22	13	3/4	30	3/4	



NOTES:

- 1. PLATES SHALL BE A572 (GR 50).
- 2. ANCHOR RODS SHALL BE F1554 (GR 105).

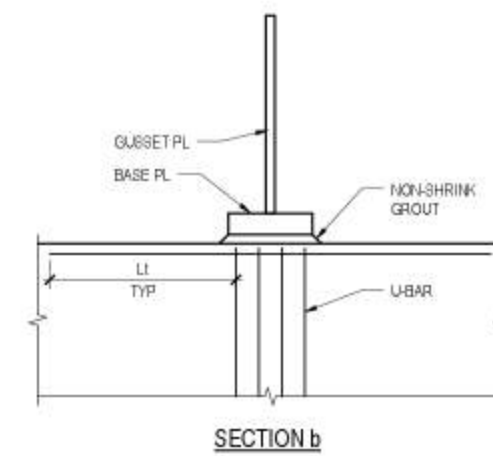
8 TYPICAL BRACED FRAME BASE PLATE CONNECTION 9 BRACED FRAME BASE PLATE DETAIL 3/4" - 1'-0"



NOTES:

- 1. PLATES SHALL BE A572 (GR 50).
- 2. ANCHOR RODS SHALL BE F1554 (GR 105).

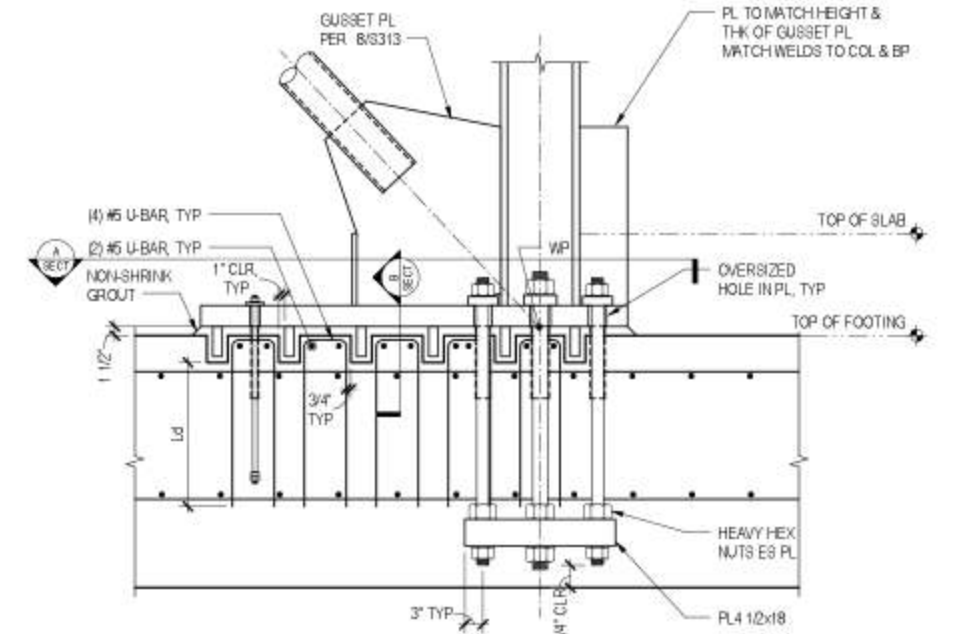
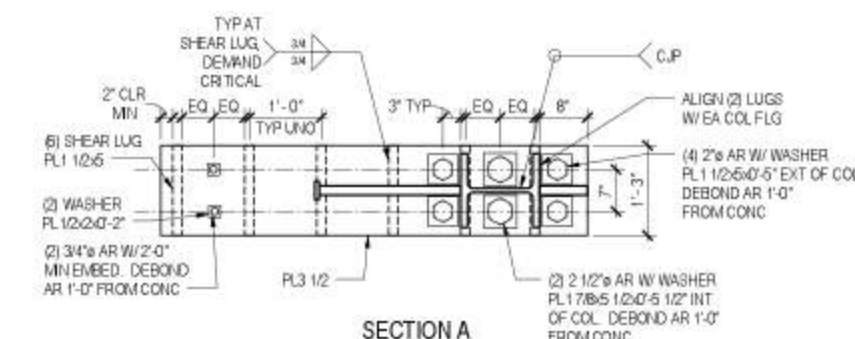
9 BRACED FRAME BASE PLATE DETAIL 3/4" - 1'-0"



NOTES:

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19 BRACED FRAME BASE PLATE DETAIL 3/4" - 1'-0"

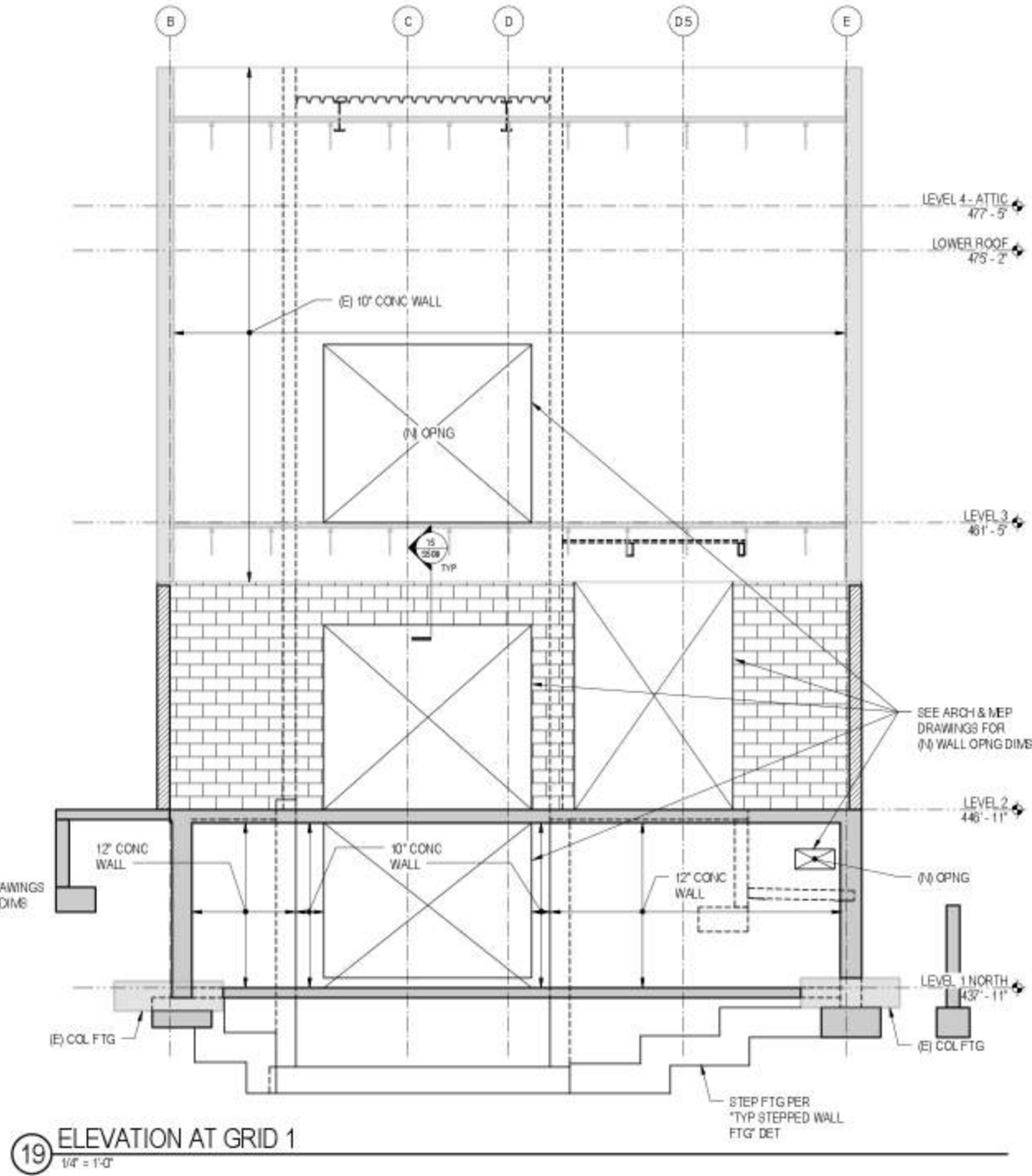
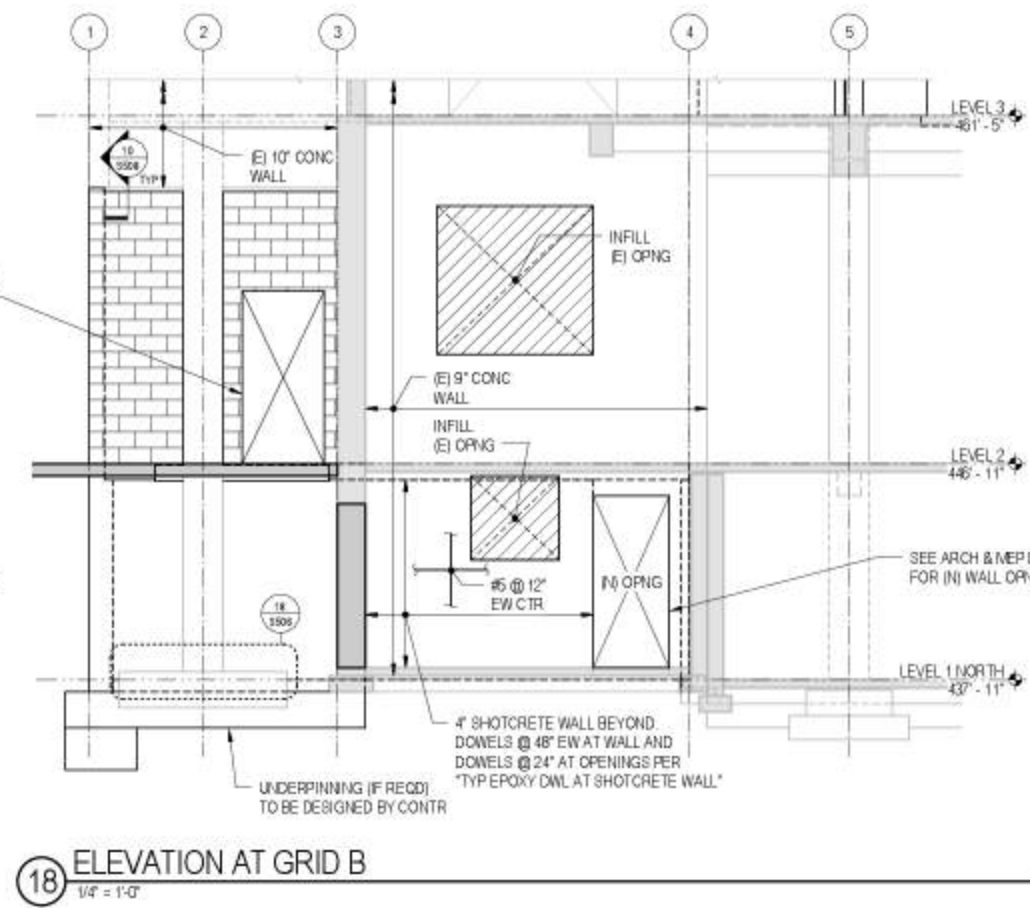
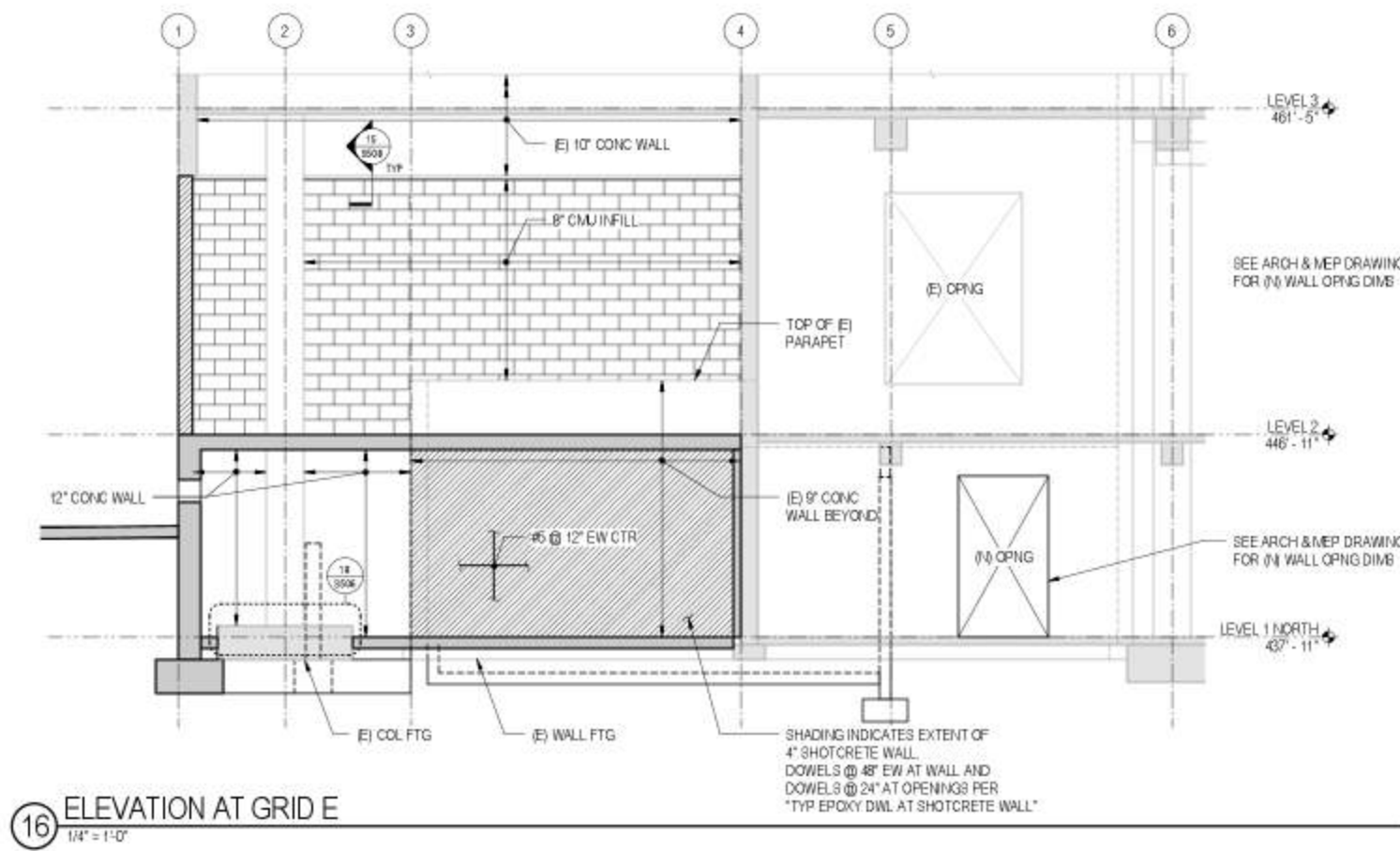
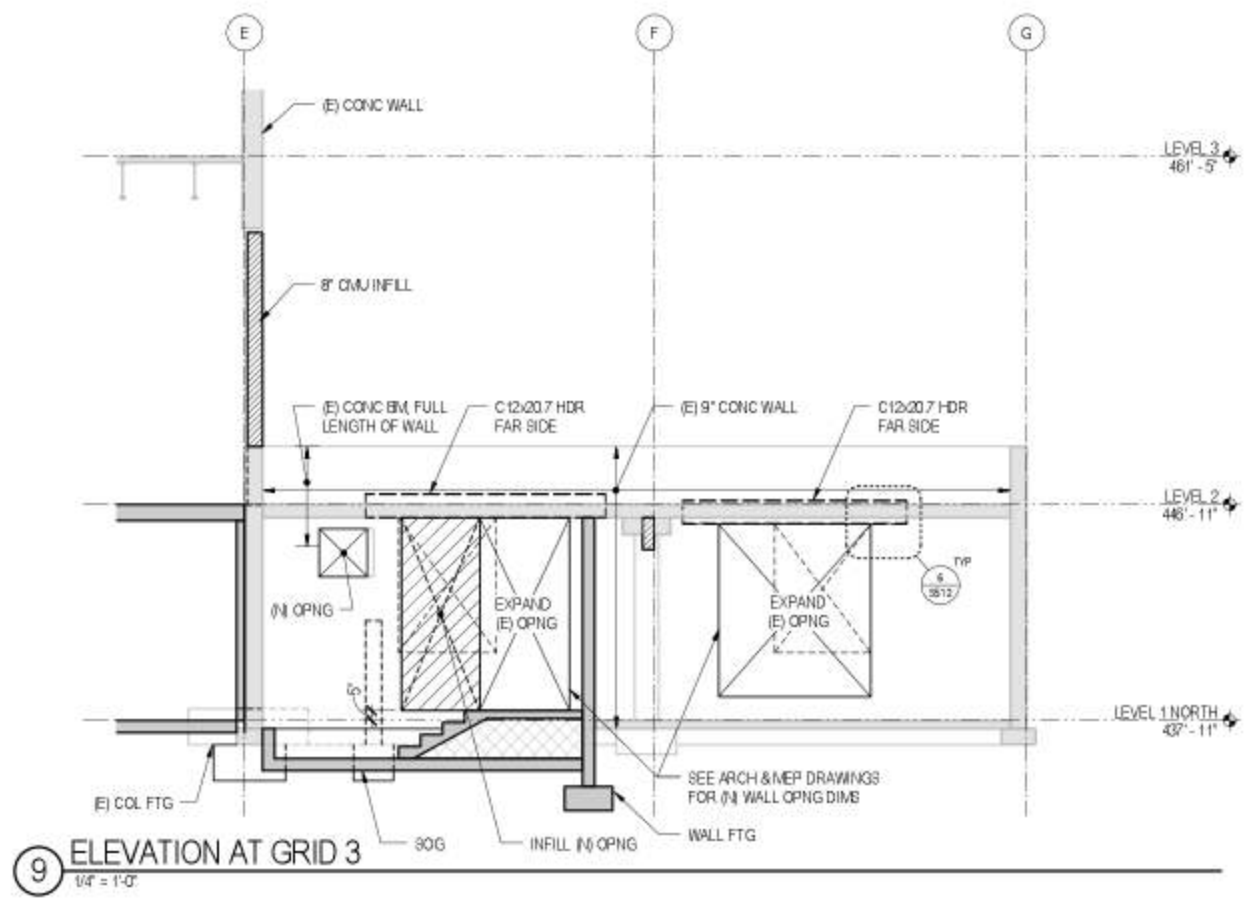
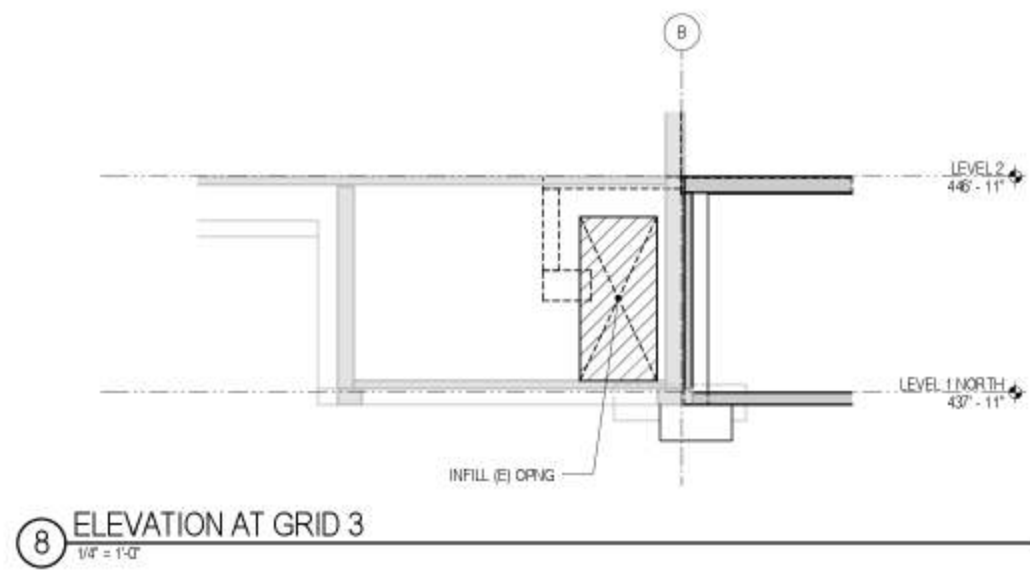
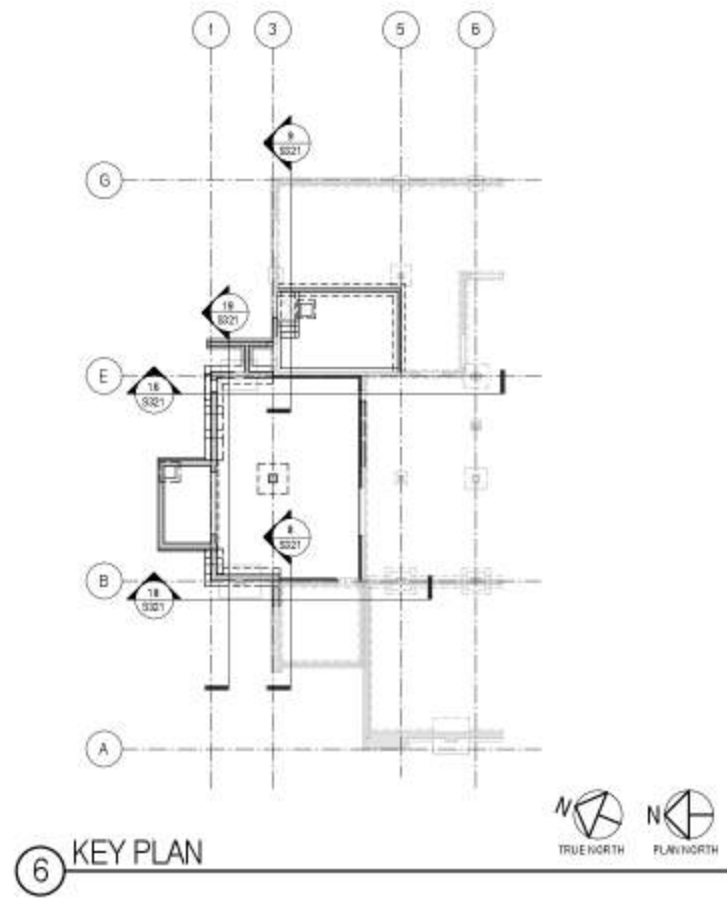


NOTES:

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19 BRACED FRAME BASE PLATE DETAIL 3/4" - 1'-0"

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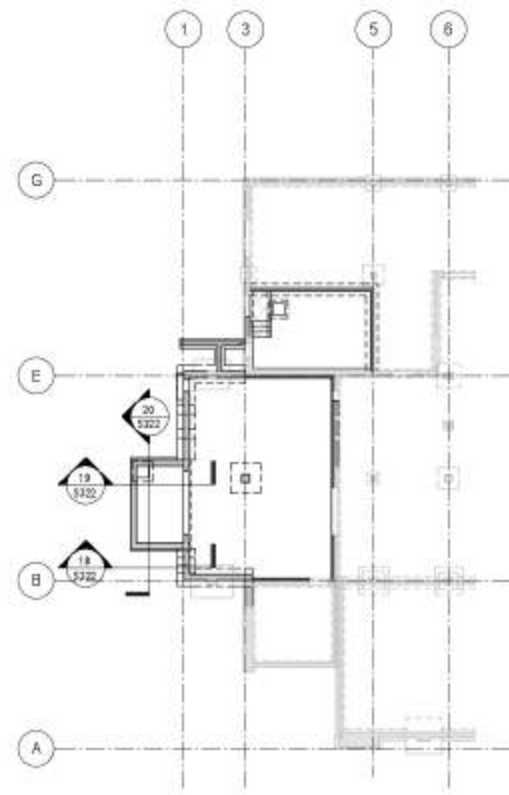
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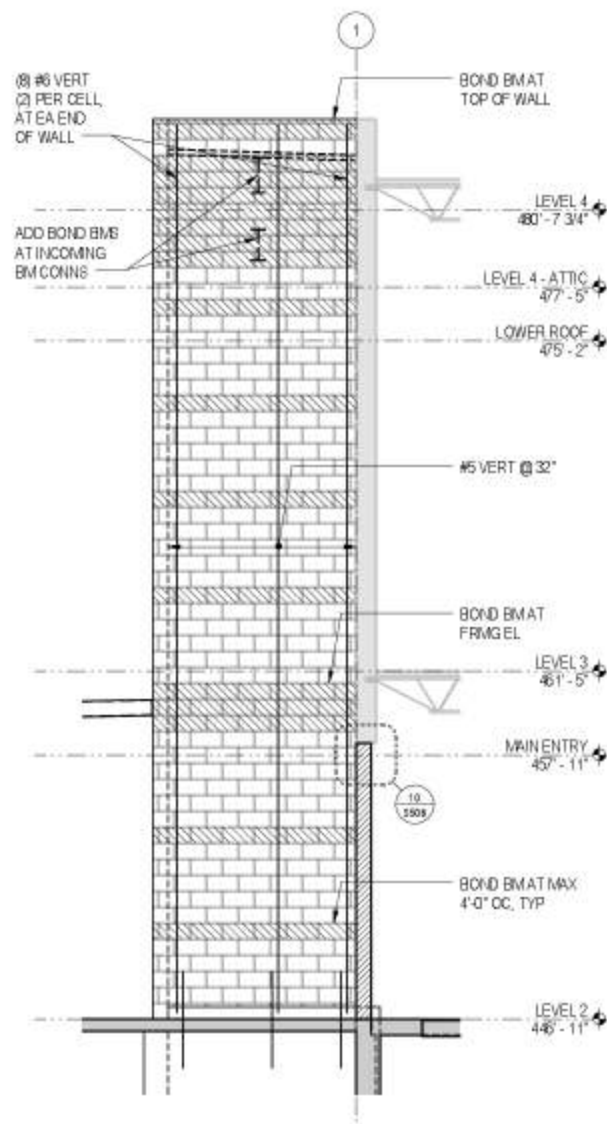
WALL ELEVATIONS

S321

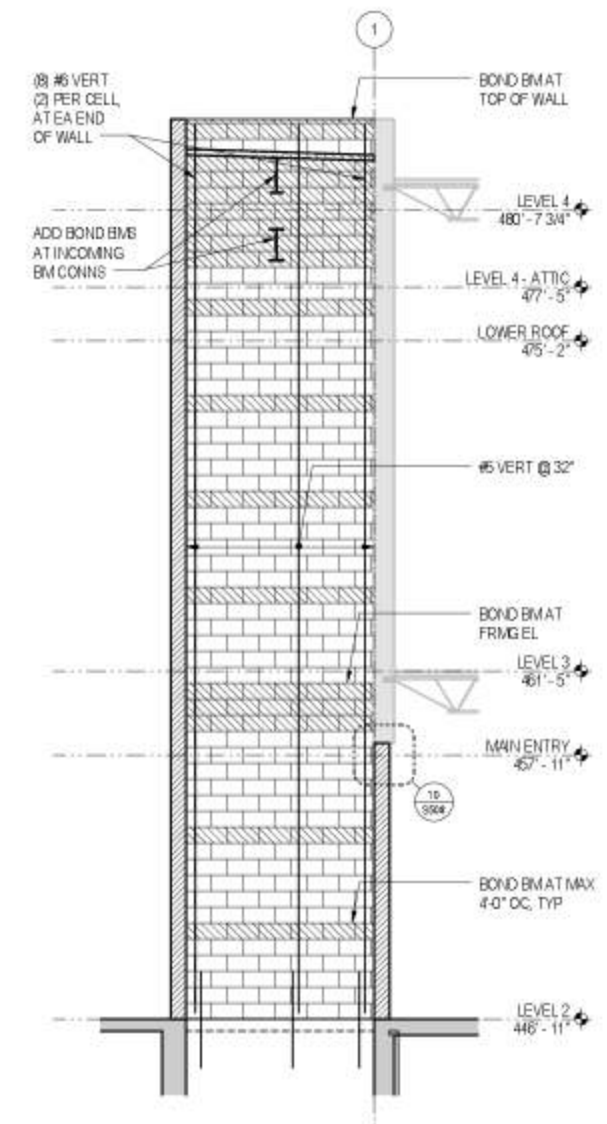
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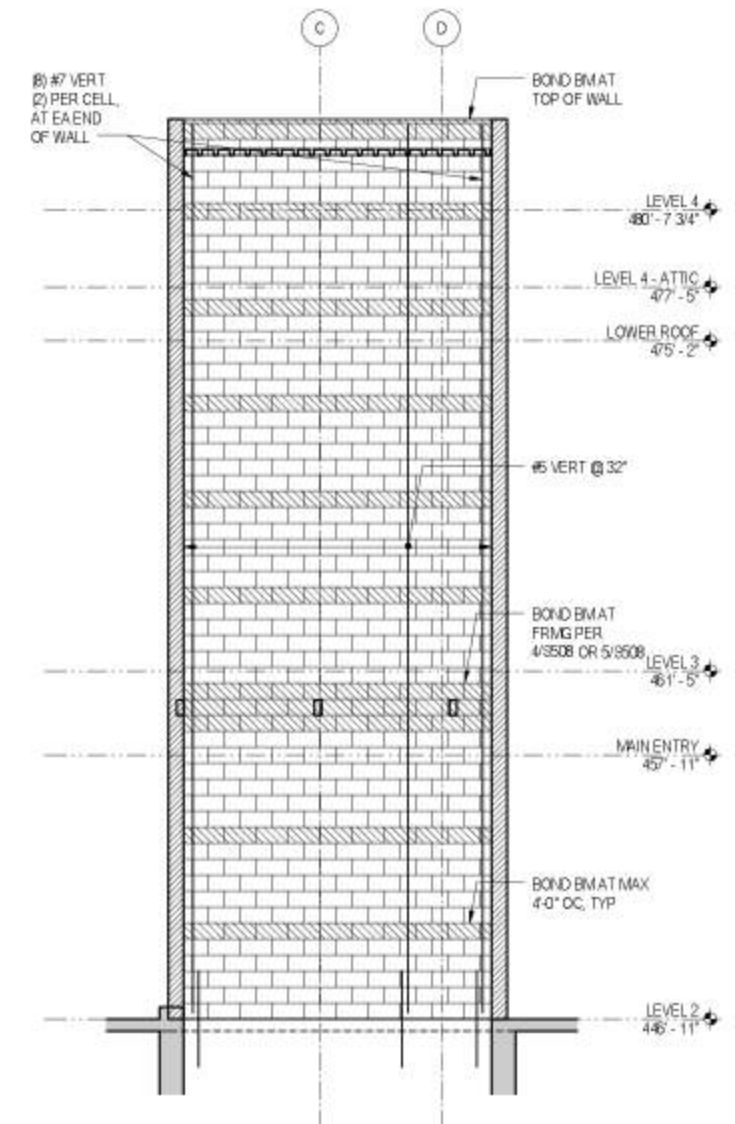
17 KEY PLAN
1/16" = 1'-0"



18 ELEVATION AT WEST ELEVATOR WALL
1/4" = 1'-0"



19 ELEVATION AT EAST ELEVATOR WALL
1/4" = 1'-0"



20 ELEVATION AT NORTH ELEVATOR WALL
1/4" = 1'-0"

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**WALL
ELEVATIONS**

S322