

to: Bill Gibson

Town of Frisco Community Development

from: Matt Stais

date: 14 August 2020

project: Retail + Office Building

Frisco Bay Marina Frisco, Colorado

re: Project Narrative

The Frisco Bay Marina and Waterfront Park is a well loved community asset and a key piece of Frisco's summer recreational scene. Initial facilities were established in the late 1980s and the usage has grown steadily over the years.

Offices currently occupy the historic Lund House, which was moved to the Marina circa 1998. Bathrooms and the Island Grill were added circa 2005. The existing offices are not adequate to serve current demand.

The Town commissioned Logan Simpson to update the Marina Master Plan in 2018, and executed 'The Big Dig' and Phase One site Improvements in 2019. The proposed Retail + Office Building is part of the Phase Two Site Improvements; further detail of Phase Two scope is attached for review.

The proposed building includes expanded retail space, staff offices, and support spaces in a single story wood frame building atop a concrete slab and foundation.

Main floor elevation of USGS 9023.00 is 1.5 feet below the FEMA Base Flood Elevation (BFE) for Tenmile Creek. Town code requires one foot of freeboard above BFE, so the bottom 2.5 feet of building walls are designed to be floodproof in accordance with FEMA standard P-936 (2013).

Floodproofing will be accomplished with concrete walls, which will be poured with board formed texture and left exposed as the base of the building. Insulation will be provided on the interior of these walls.

Primary wall siding is locally sourced beetlekill pine from Summit County. Standing seam steel siding is used for secondary accent siding. Asphalt shingles are proposed for roofing, with 850 sq ft of solar PV panels on south facing roofs, expected to provide 17KW of capacity. An exterior materials palette is attached for review.

Frisco Marina Retail + Office Building Project Narrative page 2

The Town has prioritized sustainability in project design, construction, and operation of this building to the greatest extent practicable. Specifics are included in attached summary of sustainable design precepts.

Inclusion of active solar systems will be a budgetary decision for the Owner, but the design will incorporate 'solar ready' options for mechanical and electrical systems so the town can easily add those at a later date if not installed as part of initial construction.

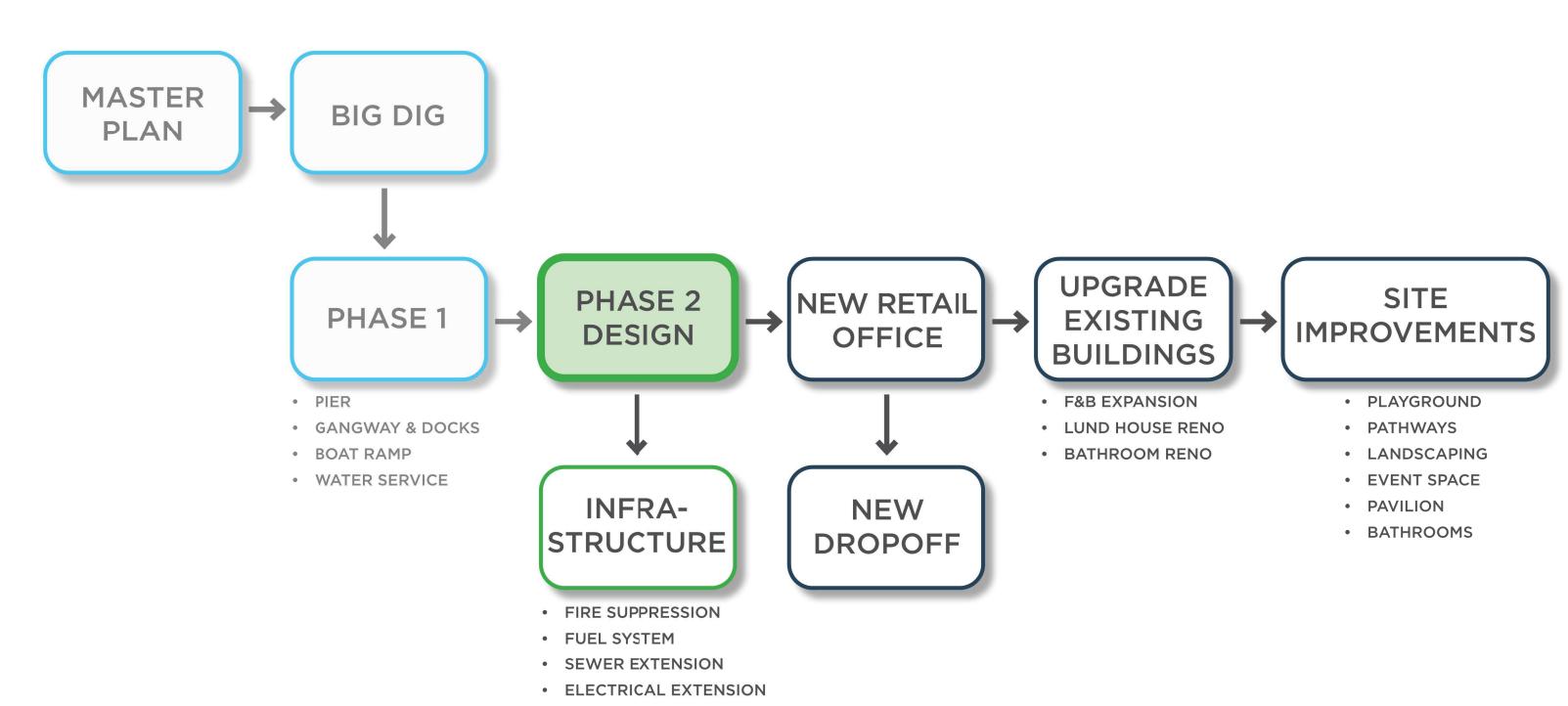
Project goals tie directly to principles outlined in the Marina Master Plan and the Frisco Community Plan. Final site conditions will include trail connections to the rec path and neighboring areas, connect the Marina more closely with Main Street, improve vehicular access including a dropoff for shuttle services and possible future public transit, and more opportunities for the public to interact with the shoreline of Lake Dillon while enhancing the natural resources along the lake edge.

This building is a key part of the evolution of the Frisco Bay Marina. Its completion and occupancy will help the Marina staff better serve guests, and allow for future renovations to the Lund House and Island Grill (considered a separate scope of work from this application).

We look forward to your comments.

2018 2019 2020

FUTURE



INTERIM PATHS







	SI	ustainable design p	recepts	
Augusticas (C	14 a	august 2020		stais architecture & interiors
1	SI	ustainable site selec	ction & design	notes
1.1	•	sustainable site selection	building not sited in farmland, wetland, parkland or habitat	yes
1.2	•	building orientation	building is oriented to capture sunlight, minimize wind effects	yes - roof designed w/PV in mind
1.3		reduced site disturbance	site disturbance maximized at areas already disturbed, not green space	building sited on newly created land
.4		stormwater management	strategic plan to manage stormwater runoff; include vegetated swales	yes
.5		light pollution reduction	spec & locate fixtures to minimize light trespass from site	yes
.6	•	alternative transportation	include bicycle storage & changing rooms; public transport nearby	ample bike storage
2	er	nergy efficiency		notes
2.1	?	optimize energy performance	use better insulation at building envelope	under study - details to follow
2.2	•		use daylighting to reduce power demand	provided at all habitable spaces
.3	?		use higher efficiency HVAC equipment	under study - details to follow
.4	•	on site renewable energy	solar photo-voltaic for power generation (7-8:12, east-west ridge = best)	solar ready for 17KW system
.5	0		solar for domestic hot water? (12:12, east-west ridge = best)	no - minimal HW usage
6	0		study feasibility of ground source [geothermal] heating and cooling	not applicable; going the solar route
7	0		wind power: price and design for vertical or horizontal turbines	not applicable; going the solar route
8	0	off site renewable energy	purchase green power for operations?	goal is net zero on-site!
9	•	ozone protection	do not specify systems with HCFC or halons	yes
10	?	measurement & verification	continuous metering provides accountability; determine costs/benefits	consider for educational piece
3	W	ater efficiency		notes
1	0	water efficient landscaping	use non-potable graywater for irrigation: design 2 pipe system	not included
2		wastewater technologies	use waterless urinals, low flow toilets & showers	yes; discuss details w public works
3	•	water use reduction	utilize 'dry cleanup' practices where possible	yes; discuss details w public works
ļ.	m	aterial & resource e	efficiency	notes
1	0	recycled content	spec products with post-consumer & post-industrial content	research/discuss with Town staff
2	?	resource reuse	use min 5% salvaged, refurbished or reused materials	research/discuss with Town staff
3		local and regional materials	use min 20% materials & products from within 500 miles	primary siding = local beetlekill pine
4		rapidly renewable materials	use min 5% of materials with ten year [max] harvest cycle	research/discuss with Town staff
5	?	certified wood	50% or more of wood products to be FSC certified	research/discuss - possibly SFI?
6		construction waste mgmt	recycle and/or salvage minimum 50% construction waste	specify this and coord w builder
7		recycling program	for building operation	yes
;	in	door environmenta	quality	notes
1		healthy materials	use low-VOC paints, adhesives, sealants, carpet products & systems	research/discuss with Town staff
2	?	nearthy materials	use products without urea-formaldehyde [toxic]	research/discuss with Town staff
3		chemical & pollutant control	use entryway systems, separate contaminated areas	consider entry systems at porches
4	-	controllability of systems	allow occupants to control airflow, temperature & lighting	natural ventilation, several heat zone
		thermal comfort	provide thermally comfortable indoor environment	natural ventilation, several heat zone
5 6			provide connections to the outdoors for occupants	included
		daylight & views		
7		construction IAQ mgmt plan	protect HVAC & control contaminants during construction	specify this and coord w builder
8 n		tobacco smoke control	monitoring system to provide constant feedback on IAQ	small building; not needed
9		tobacco smoke control	prohibit smoking indoors; designate exterior areas	yes (exterior area in future scope)
	In	novation & design p	process	notes
1	O	building commissioning	NO commissioning due to to project size, costs outweigh benefits	not selected due to building size
2	?	innovation: education	use facility to educate community about sustainability	research/discuss with Town staff
3		innovation: what else?	other ideas to be determined: do you have a suggestion?	document integrated design process



Technical Memorandum

Date: August 14, 2020

Project: Frisco Bay Marina Phase II Improvements

To: Matt Stais, AIA

Principal Architect

Stais Architecture and Interiors

From: Chris Jain, PE, CFM
Reviewed By: Joel Price, PE, LEED AP

Re: Stormwater Drainage Conceptual Design Memo

Introduction

This memo summarizes the proposed stormwater drainage concepts related to proposed development of new impervious area created by revising the existing vehicle turnaround area, adding concrete sidewalk and 2,200 square foot Marina Office Building. These improvements are all part of the Frisco Bay Marina Phase II Improvements.

Existing Conditions

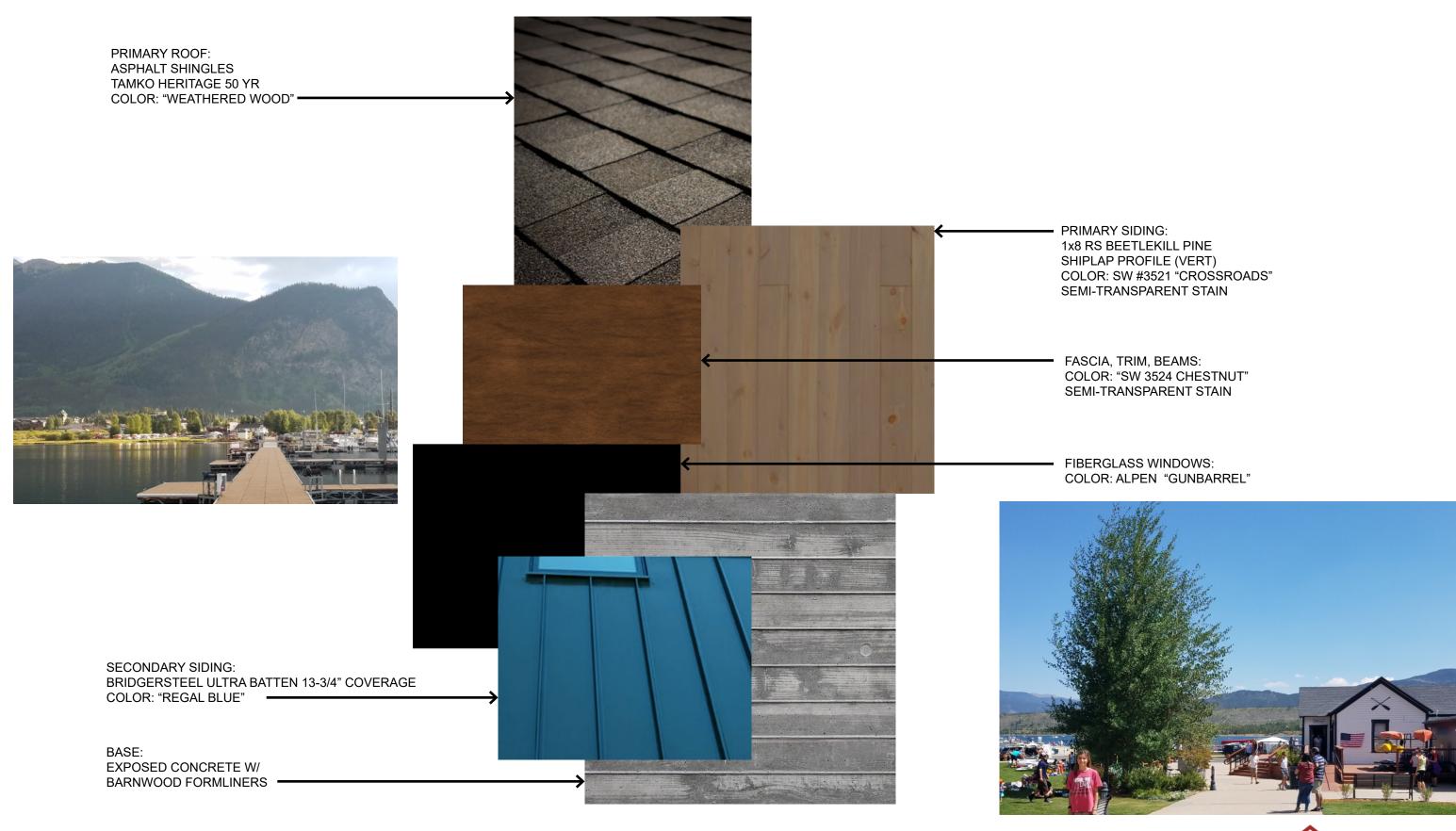
In general, the site runoff is addressed with drywells throughout the park. The existing runoff within the Phase II work limits generally drains to the east-southeast. There is an existing curb and gutter along the south edge of the entrance drive going to the boat ramp. The westerly inlet is connected to a drywell. A second inlet was installed in this same south curb line as part of the Phase I improvements that included the construction of the boat ramp. This inlet is connected to a drywell system that was also constructed with Phase I.

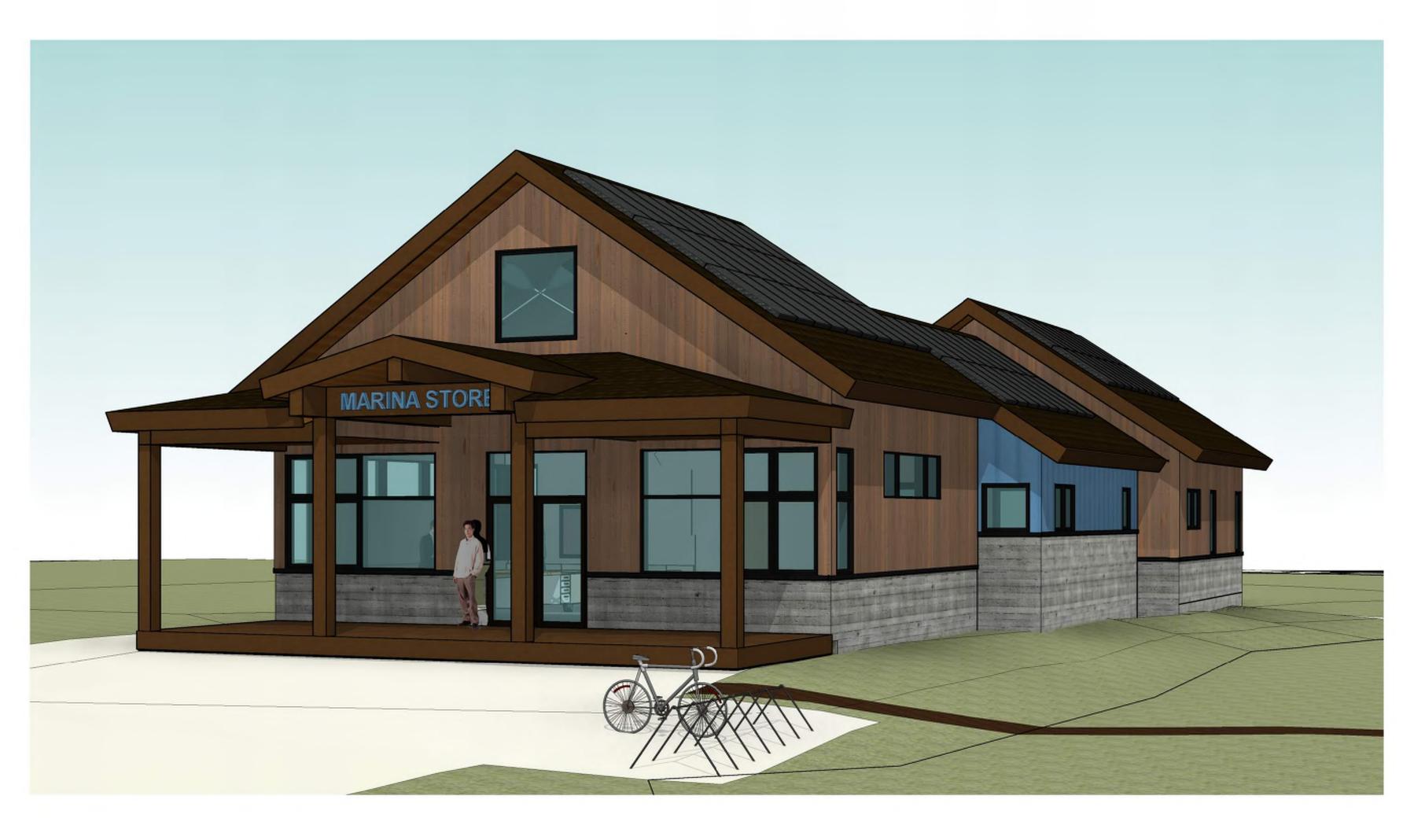
Several of the existing drywells have been filled in, or they have been observed to have standing water in them, indicating they are likely not functioning as well as they did when they were originally installed.

Proposed Drainage Concepts

Due to high groundwater and the observed conditions of the existing wet wells, it is proposed to minimize inlets and piping infrastructure and surface drain the improvement area to a proposed water quality bioswale and forebay on the south side of the parking lot. This will allow for maintenance and removal of sediment at the forebay and provide water quality treatment prior to entering the existing vegetated area and wetland which outfall into Dillon Reservoir.

Sizing calculations will be completed as part of the next steps of the Phase II design development phase.







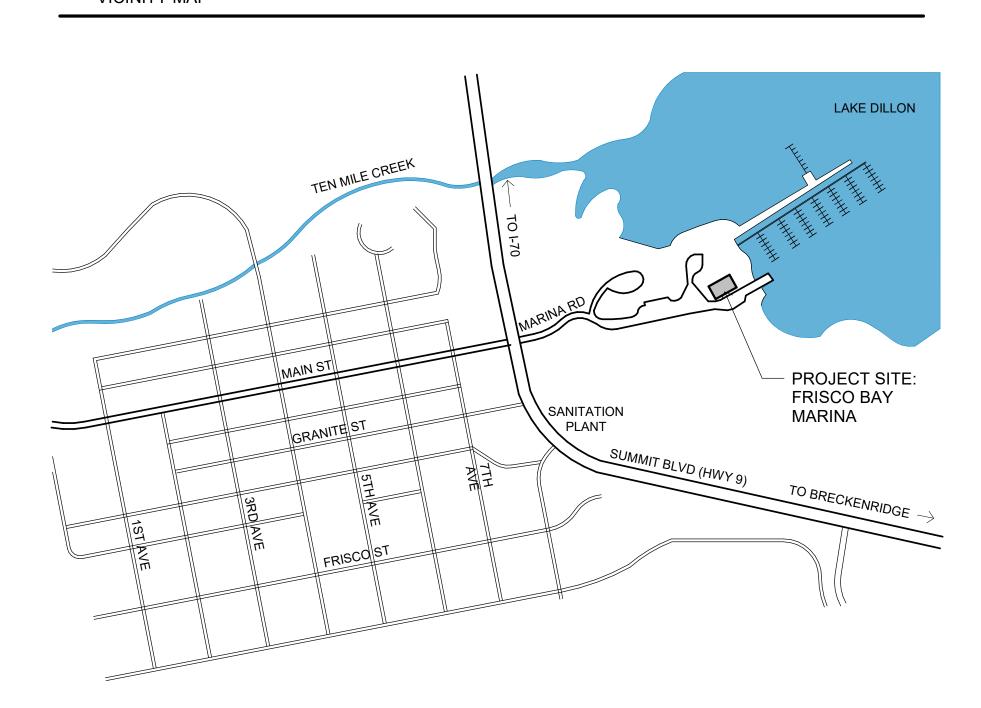
p o box 4175

FRISCO BAY MARINA RETAIL & OFFICE BUILDING

TOWN PLANNING SUBMITTAL

290 MARINA ROAD FRISCO. COLORADO

VICINITY MAP



CS	COVER SHEET
C100 C101	EXISTING SITE PLAN CIVIL SITE PLAN
L100 L200 L300	LANDSCAPE NOTES & SCHEDULE LANDSCAPE PLAN LANDSCAPE DETAILS
A211 A220	MAIN FLOOR PLAN ROOF PLAN
A301 A302 A311	EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS EXTERIOR PERSPECTIVES
A411 A412	BUILDING SECTIONS BUILDING SECTIONS
IES1-1	LIGHTING - ISO-FOOTCANDLE SITE PLAN

IES1-2 LIGHTING CUT SHEETS

LANDSCAPE NOTES & SCHEDULE LANDSCAPE PLAN LANDSCAPE DETAILS MAIN FLOOR PLAN ROOF PLAN ROOF PLAN EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS EXTERIOR PERSPECTIVES BUILDING SECTIONS BUILDING SECTIONS	1	EXISTING SITE PLAN CIVIL SITE PLAN
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EXTERIOR ELEVATIONS EXTERIOR PERSPECTIVES BUILDING SECTIONS		
		EXTERIOR ELEVATIONS

OWNER:	
TOWN OF FRISCO	
1 EAST MAIN ST P.O. BOX 4100	
FRISCO . CO . 80443 970.668.2559	

SURVEYOR:

SCHMIDT LAND SURVEYING, INC. P.O BOX 5761 FRISCO . CO . 80443 970-409-9963

CIVIL ENGINEER:

303.402.6984

MURRAYSMITH 850 W SOUTH BOULDER ROAD, SUITE 200 LOUISVILLE . CO . 80027

ARCHITECTURE/ INTERIORS:

STAIS ARCHITECTURE & INTERIORS 409 E MAIN STREET P.O. BOX 4175 FRISCO . CO . 80424 970.453.0444

LANDSCAPE ARCHITECT:

NORRIS DESIGN 409 E MAIN ST. SUITE 207 P.O. BOX 2320 FRISCO . CO . 80443 970.368.7068

STRUCTURAL ENGINEER:

ENGINEERING DESIGN WORKS, INC PO BOX 775729 1855 SKI TIMES SQUARE, UNIT E2C STEAMBOAT SPRINGS, CO 80477 970.879.4890

MECH/ELEC ENGINEER:

BIGHORN CONSULTING ENGINEERS 386 INDIAN ROAD GRAND JUNCTION, CO 81506 970.241.8709



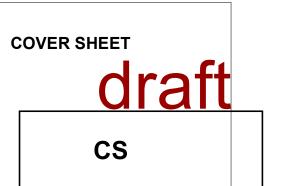
frisco bay marina retail & office building

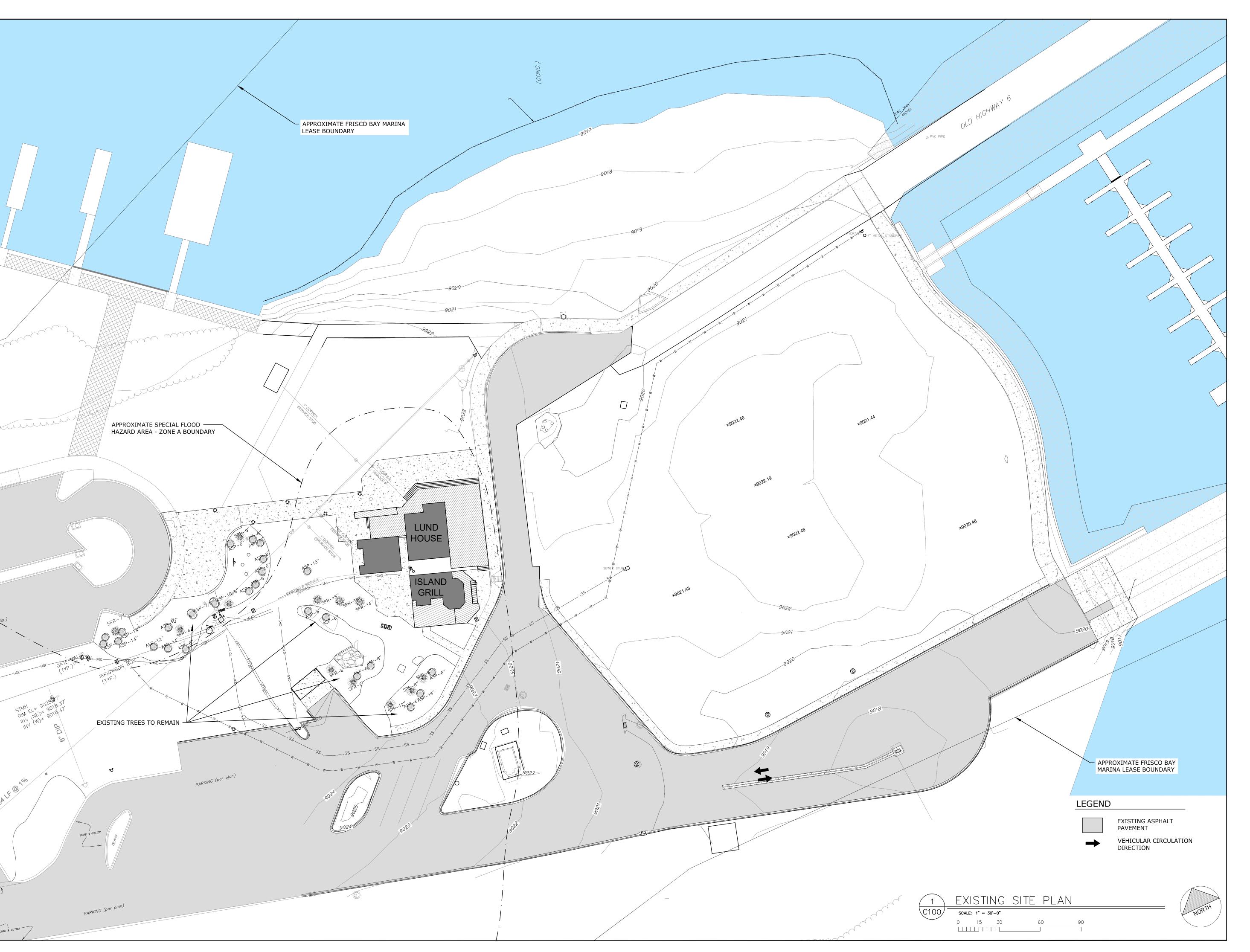
> 290 marina road frisco . colorado

PROJECT # 1951

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town planning	14 aug 2020	
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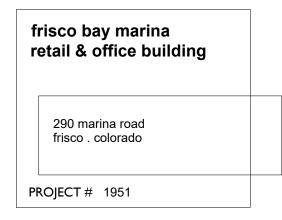






850 W SOUTH BOULDER ROAD, SUITE 200 LOUISVILLE, COLORADO 80027

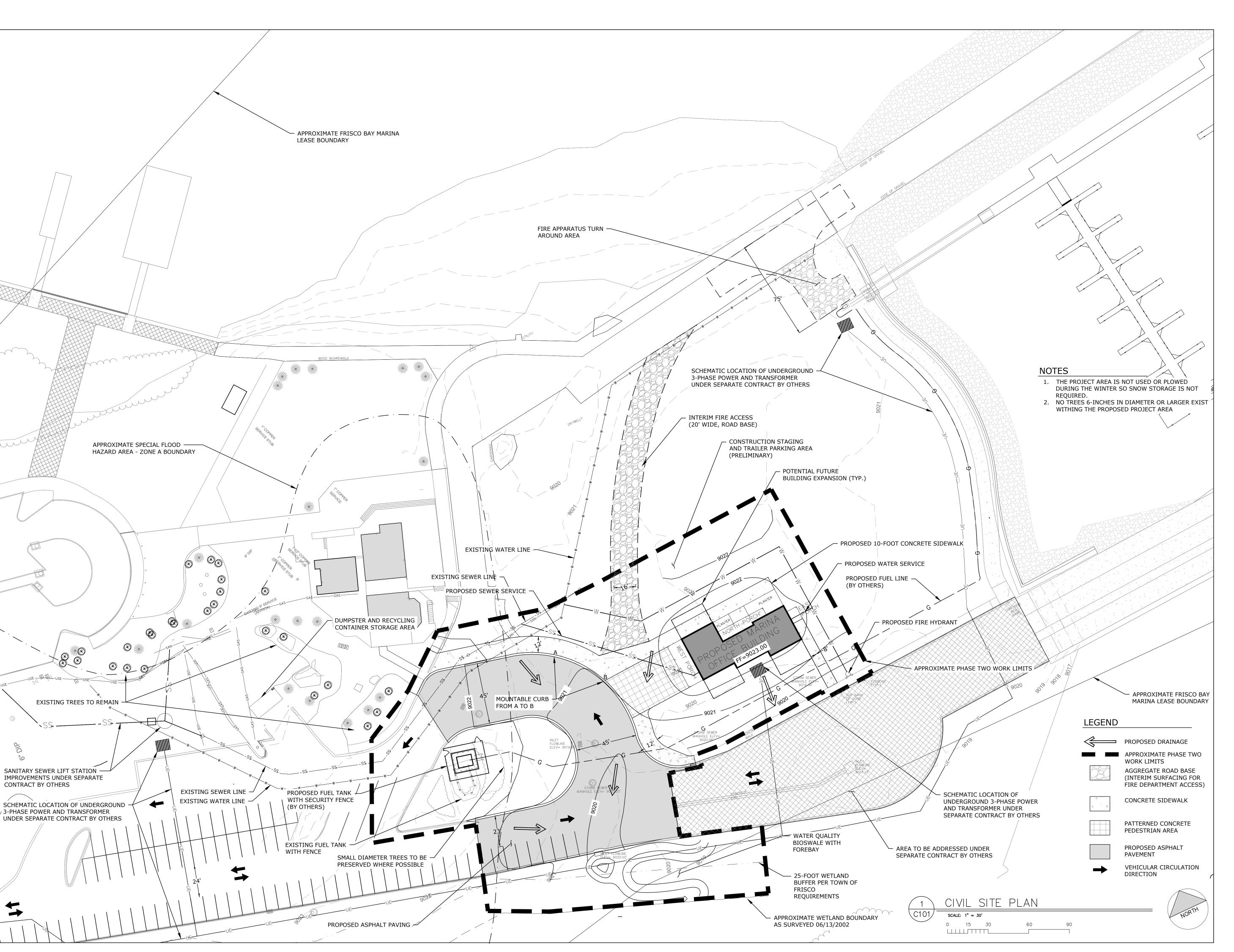




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ISSUE:	
review	11 mar 2020
DRC review	24 june 2020
Town Planning	14 august 2020









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GENERAL NOTES

- 1. THESE PLANS SHALL NOT BE UTILIZED FOR CONSTRUCTION OR PERMITTING UNLESS STATED FOR SUCH USE IN THE TITLE BLOCK.
- DRAWINGS ARE INTENDED TO BE PRINTED ON 24" X 36" PAPER. PRINTING THESE DRAWINGS
 AT A DIFFERENT SIZE WILL IMPACT THE SCALE. VERIFY THE GRAPHIC SCALE BEFORE
 REFERENCING ANY MEASUREMENTS ON THESE SHEETS. THE RECIPIENT OF THESE
 DRAWINGS SHALL BE RESPONSIBLE FOR ANY ERRORS RESULTING FROM INCORRECT
- PRINTING, COPYING, OR ANY OTHER CHANGES THAT ALTER THE SCALE OF THE DRAWINGS.

 VERIFY ALL PLAN DIMENSIONS PRIOR TO START OF CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE TO ADDRESS ANY QUESTIONS OR CLARIFY ANY DISCREPANCIES.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
 SUBMIT A CHANGE ORDER FOR APPROVAL FOR ANY CHANGES TO WORK SCOPE RESULTING FROM FIELD CONDITIONS OR DIRECTION BY OWNER'S REPRESENTATIVE WHICH REQUIRE ADDITIONAL COST TO THE OWNER PRIOR TO PERFORMANCE OF WORK.
- 6. THE CONTRACTOR SHALL PROVIDE A STAKED LAYOUT OF ALL SITE IMPROVEMENTS FOR INSPECTION BY THE OWNER'S REPRESENTATIVE AND MAKE MODIFICATIONS AS REQUIRED. ALL LAYOUT INFORMATION IS AVAILABLE IN DIGITAL FORMAT FOR USE BY THE CONTRACTOR.
- 7. IF A GEOTECHNICAL SOILS REPORT IS NOT AVAILABLE AT THE TIME OF CONSTRUCTION, NORRIS DESIGN RECOMMENDS A REPORT BE AUTHORIZED BY THE OWNER AND THAT ALL RECOMMENDATIONS OF THE REPORT ARE FOLLOWED DURING CONSTRUCTION. THE CONTRACTOR SHALL USE THESE CONTRACT DOCUMENTS AS A BASIS FOR THE BID. IF THE OWNER ELECTS TO PROVIDE A GEOTECHNICAL REPORT, THE CONTRACTOR SHALL REVIEW THE REPORT AND SUBMIT AN APPROPRIATE CHANGE ORDER TO THE OWNER'S REPRESENTATIVE IF ADDITIONAL COSTS ARE REQUESTED.
- 8. CONTRACTOR SHALL CONFIRM THAT SITE CONDITIONS ARE SIMILAR TO THE PLANS, WITHIN TOLERANCES STATED IN THE CONTRACT DOCUMENTS, AND SATISFACTORY TO THE CONTRACTOR PRIOR TO START OF WORK. SHOULD SITE CONDITIONS BE DIFFERENT THAN REPRESENTED ON THE PLANS OR UNSATISFACTORY TO THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND FURTHER DIRECTION.
- 9. CONTRACTOR IS RESPONSIBLE TO PAY FOR, AND OBTAIN, ANY REQUIRED APPLICATIONS, PERMITTING, LICENSES, INSPECTIONS AND METERS ASSOCIATED WITH WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO
 THE OWNER RELATING TO ANY VIOLATIONS OR NON-CONFORMANCE WITH THE PLANS,
 SPECIFICATIONS, CONTRACT DOCUMENTS, JURISDICTIONAL CODES, AND REGULATORY
 AGENCIES.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL UTILITY LOCATES PRIOR TO ANY EXCAVATION. REFER TO ENGINEERING UTILITY PLANS FOR ALL PROPOSED UTILITY LOCATIONS AND DETAILS. NOTIFY OWNER'S REPRESENTATIVE IF EXISTING OR PROPOSED UTILITIES INTERFERE WITH THE ABILITY TO PERFORM WORK.
- 12. UNLESS IDENTIFIED ON THE PLANS FOR DEMOLITION OR REMOVAL, THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT OR EXISTING LANDSCAPE, ADJACENT OR EXISTING PAVING, OR ANY PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION, ESTABLISHMENT OR DURING THE SPECIFIED MAINTENANCE PERIOD. ALL DAMAGES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS AS DETERMINED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOGGING ANY DAMAGES PRIOR TO START OF CONSTRUCTION AND DURING THE CONTRACT PERIOD.
- 13. ALL WORK SHALL BE CONFINED TO THE AREA WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. ANY AREAS OR IMPROVEMENTS DISTURBED OUTSIDE THESE LIMITS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THE CONTRACTOR REQUIRES A MODIFICATION TO THE CONSTRUCTION LIMITS, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER'S REPRESENTATIVE PRIOR TO ANY DISTURBANCE OUTSIDE OF THE LIMITS OF WORK.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS THAT SETTLE.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO THE APPROPRIATE JURISDICTIONAL AGENCIES AND THE OWNER'S REPRESENTATIVE IF THEIR WORK AND OPERATIONS AFFECT OR IMPACT THE PUBLIC RIGHTS-OF-WAY. OBTAIN APPROVAL PRIOR TO ANY WORK WHICH AFFECTS OR IMPACTS THE PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THIS REQUIREMENT DURING THE CONTRACT PERIOD.
- 16. SIGHT TRIANGLES AND SIGHT LINES SHALL REMAIN UNOBSTRUCTED BY EQUIPMENT, CONSTRUCTION MATERIALS, PLANT MATERIAL OR ANY OTHER VISUAL OBSTACLE DURING THE CONTRACT PERIOD AND AT MATURITY OF PLANTS PER LOCAL JURISDICTIONAL REQUIREMENTS. NO PLANT MATERIAL OTHER THAN GROUND COVER IS ALLOWED TO BE PLANTED ADJACENT TO FIRE HYDRANTS AS STIPULATED BY JURISDICTIONAL REQUIREMENTS.

SHEET LIST

L-100 LANDSCAPE NOTES & SCHEDULE
L-200 LANDSCAPE PLAN
L-300 LANDSCAPE DETAILS

- 17. COORDINATE SITE ACCESS, STAGING, STORAGE AND CLEANOUT AREAS WITH OWNER'S
- 18. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SAFETY FENCING AND BARRIERS AROUND ALL IMPROVEMENTS SUCH AS WALLS, PLAY STRUCTURES, EXCAVATIONS, ETC. ASSOCIATED WITH THEIR WORK UNTIL SUCH FACILITIES ARE COMPLETELY INSTALLED PER THE PLANS, SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
- 19. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THEIR MATERIAL STOCK PILES AND WORK FROM VANDALISM, EROSION OR UNINTENDED DISTURBANCE DURING THE CONSTRUCTION PERIOD AND UNTIL FINAL ACCEPTANCE IS ISSUED.
- 20. THE CONTRACTOR SHALL KNOW, UNDERSTAND AND ABIDE BY ANY STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ASSOCIATED WITH THE SITE. IF A STORM WATER POLLUTION PREVENTION PLAN IS NOT PROVIDED BY THE OWNER'S REPRESENTATIVE, REQUEST A COPY BEFORE PERFORMANCE OF ANY SITE WORK.
- 21. MAINTAIN ANY STORM WATER MANAGEMENT FACILITIES THAT EXIST ON SITE FOR FULL FUNCTIONALITY. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ANY NEW STORM WATER MANAGEMENT FACILITIES THAT ARE IDENTIFIED IN THE SCOPE OF WORK TO FULL FUNCTIONALITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER FOR FAILURE TO MAINTAIN STORM WATER MANAGEMENT FACILITIES DURING THE CONTRACT PERIOD.
- 22. THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM EXITING THE SITE OR ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION OR CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS DURING THEIR CONTRACTED COURSE OF WORK.
- 23. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT ANY IMPACTS TO ADJACENT WATERWAYS, WETLANDS, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS RESULTING FROM WORK DONE AS PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE STANDARDS DURING THEIR CONTRACTED COURSE OF WORK.
- 24. THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL ENSURE THAT ALL LOADS OF CONSTRUCTION MATERIAL IMPORTED TO OR EXPORTED FROM THE PROJECT SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF MATERIAL DURING TRANSPORT. TRANSPORTATION METHODS ON PUBLIC RIGHT-OF WAYS SHALL CONFORM TO JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY
- FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS.

 25. THE CLEANING OF EQUIPMENT IS PROHIBITED AT THE JOB SITE UNLESS AUTHORIZED BY THE OWNER'S REPRESENTATIVE IN A DESIGNATED AREA. THE DISCHARGE OF WATER, WASTE CONCRETE, POLLUTANTS, OR OTHER MATERIALS SHALL ONLY OCCUR IN AREAS
- DESIGNED FOR SUCH USE AND APPROVED BY THE OWNER'S REPRESENTATIVE.

 26. THE CLEANING OF CONCRETE EQUIPMENT IS PROHIBITED AT THE JOB SITE EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE IN THE STORM SEWER IS PROHIBITED.
- 27. OPEN SPACE SWALES: IF SWALES ARE EXISTING ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE CONVEYANCE OF WATER WITHIN THE SWALES DURING THE CONTRACT PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DIVERSION OR PUMPING OF WATER IF REQUIRED TO COMPLETE WORK. ANY SWALES DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. IF THE SWALE NEEDS TO BE DISTURBED OR MODIFIED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO DISTURBANCE.
- 28. DETENTION AND WATER QUALITY PONDS: IF DETENTION PONDS AND WATER QUALITY PONDS ARE EXISTING ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE PONDS, DRAINAGE STRUCTURES AND SPILLWAYS DURING CONSTRUCTION. ALL PONDS, DRAINAGE STRUCTURES AND SPILLWAYS SHALL BE MAINTAINED IN OPERABLE CONDITIONS AT ALL TIMES. ANY POND OR SPILLWAY AREAS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. IF THE POND NEEDS TO BE DISTURBED OR MODIFIED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO DISTURBANCE.
- 29. LOCAL, STATE AND FEDERAL JURISDICTIONAL REQUIREMENTS, RESTRICTIONS OR PROCEDURES SHALL SUPERSEDE THESE PLANS, NOTES AND SPECIFICATIONS WHEN MORE STRINGENT. NOTIFY THE OWNER'S REPRESENTATIVE IF CONFLICTS OCCUR.

SHORT GRASS MIXTURE

COMMON NAME	BOTAN	ICAL NAME		%	LBS./1000 S.F
PERENNIAL RYEGRASS CHEWINGS FESCUE KENTUCKY BLUEGRASS, I		LOLIUM PERENNI FESTUCA RUBRA POA PRATENSIS POA PRATENSIS	1	30% 30% 25% 15%	0.6 LBS. 0.6 LBS. 0.5 LBS. 0.2 LBS.
			TOTAL	100%	2.0 LBS.

NOTES

- SEED APPLICATION RATES
- 1.1. BROADCAST: 85-90 LBS/ACRE 1.2. DRILLED: 15-20 LBS/ACRE
- . APPLY EROSION CONTROL NETTING TO ANY AREA WHICH IS VULNERABLE TO SOIL EROSION SUCH AS SWALES OR STEEP SLOPES (3:1 OR STEEPER)
- 3. UTILIZE HYDROMULCH AND TACKIFIER OF 2,000 POUNDS PER ACRE WITH 3% TACKIFIER.
- UNLESS NOTED OTHERWISE IN TECHNICAL SPECIFICATIONS, AMEND ALL TOPSOIL IN RESEED AREAS TO 2" DEPTH WITH COMPOST.

LANDSCAPE NOTES

- THE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLANS AND SPECIFICATIONS AS CLOSELY AS POSSIBLE. ANY SUBSTITUTION OR ALTERATION SHALL NOT BE ALLOWED WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE. OVERALL PLANT QUANTITY AND QUALITY SHALL BE CONSISTENT WITH THE PLANS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES. GRAPHIC QUANTITIES TAKES PRECEDENCE OVER WRITTEN QUANTITIES.
- 3. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND TAG ALL PLANT MATERIAL PRIOR TO SHIPPING TO THE SITE. IN ALL CASES, THE OWNER'S REPRESENTATIVE MAY REJECT PLANT MATERIAL AT THE SITE IF MATERIAL IS DAMAGED, DISEASED, OR DECLINING IN HEALTH AT THE TIME OF ONSITE INSPECTIONS OR IF THE PLANT MATERIAL DOES NOT MEET THE MINIMUM SPECIFIED STANDARD IDENTIFIED ON THE PLANS AND IN THE SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR INSPECTION AND APPROVAL OF ALL MATERIALS AND PRODUCTS PRIOR TO INSTALLATION.
- 4. THE OWNER'S REPRESENTATIVE MAY ELECT TO UPSIZE PLANT MATERIAL AT THEIR DISCRETION BASED ON SELECTION, AVAILABILITY, OR TO ENHANCE SPECIFIC AREAS OF THE PROJECT. THE CONTRACTOR SHALL VERIFY PLANT MATERIAL SIZES WITH OWNER'S REPRESENTATIVE PRIOR TO PURCHASING, SHIPPING OR STOCKING OF PLANT MATERIALS. SUBMIT CHANGE ORDER REQUEST TO OWNER'S REPRESENTATIVE FOR APPROVAL IF ADDITIONAL COST IS REQUESTED BY THE CONTRACTOR PRIOR TO INSTALLATION. RE-STOCKING CHARGES WILL NOT BE APPROVED IF THE CONTRACTOR FAILS TO SUBMIT A REQUEST FOR MATERIAL CHANGES.
- 5. THE CONTRACTOR SHALL WARRANTY ALL CONTRACTED WORK AND MATERIALS FOR A PERIOD OF TWO YEARS AFTER SUBSTANTIAL COMPLETION HAS BEEN ISSUED BY THE OWNER'S REPRESENTATIVE FOR THE ENTIRE PROJECT UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS OR SPECIFICATIONS.
- 6. REFER TO IRRIGATION PLANS FOR LIMITS AND TYPES OF IRRIGATION DESIGNED FOR THE LANDSCAPE. IN NO CASE SHALL IRRIGATION BE EMITTED WITHIN THE MINIMUM DISTANCE FROM BUILDING OR WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT. ALL IRRIGATION DISTRIBUTION LINES, HEADS AND EMITTERS SHALL BE KEPT OUTSIDE THE MINIMUM DISTANCE AWAY FROM ALL BUILDING AND WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT.
- 7. LANDSCAPE MATERIAL LOCATIONS SHALL HAVE PRECEDENCE OVER IRRIGATION MAINLINE AND LATERAL LOCATIONS. COORDINATE INSTALLATION OF IRRIGATION EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES OR OTHER LANDSCAPE MATERIAL.
- 8. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE EXISTS IN ALL LANDSCAPE AREAS. SURFACE DRAINAGE ON LANDSCAPE AREAS SHALL NOT FLOW TOWARD STRUCTURES AND FOUNDATIONS. MAINTAIN SLOPE AWAY FROM FOUNDATIONS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. ALL LANDSCAPE AREAS BETWEEN WALKS AND CURBS SHALL DRAIN FREELY TO THE CURB UNLESS OTHERWISE IDENTIFIED ON THE GRADING PLAN. IN NO CASE SHALL THE GRADE, TURF THATCH, OR OTHER LANDSCAPE MATERIALS DAM WATER AGAINST WALKS. MINIMUM SLOPES ON LANDSCAPE AREAS SHALL BE 2%; MAXIMUM SLOPE SHALL BE 25% UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS OR APPROVED BY THE OWNER'S REPRESENTATIVE.
- 9. PRIOR TO INSTALLATION OF PLANT MATERIALS, AREAS THAT HAVE BEEN COMPACTED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE THOROUGHLY LOOSENED TO A DEPTH OF 8" 12" AND AMENDED PER SPECIFICATIONS.
- 10. ALL LANDSCAPED AREAS ARE TO RECEIVE ORGANIC SOIL PREPARATION TO TOWN OF FRISCO RECOMMENDATION OR AS NOTED IN THE TECHNICAL SPECIFICATIONS 3 CU. YDS PER 1,000 SF.
- 11. TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DRAINAGE AREAS, OR UTILITY EASEMENTS. CONTACT OWNER'S REPRESENTATIVE FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.

- 12. THE CENTER OF EVERGREEN TREES SHALL NOT BE PLACED CLOSER THAN 8' AND THE CENTER OF ORNAMENTAL TREES CLOSER THAN 6' FROM A SIDEWALK, STREET OR DRIVE LANE. EVERGREEN TREES SHALL NOT BE LOCATED ANY CLOSER THAN 15' FROM IRRIGATION ROTOR HEADS. NOTIFY OWNER'S REPRESENTATIVE IF TREE LOCATIONS CONFLICT WITH THESE STANDARDS FOR FURTHER DIRECTION.
- 13. ALL EVERGREEN TREES SHALL BE FULLY BRANCHED TO THE GROUND AND SHALL NOT EXHIBIT SIGNS OF ACCELERATED GROWTH AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
- 14. ALL TREES ARE TO BE STAKED AND GUYED PER DETAILS FOR A PERIOD OF 3 YEARS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING STAKES AT THE END OF 3 YEARS FROM ACCEPTANCE OF LANDSCAPE INSTALLATION BY THE OWNER'S REPRESENTATIVE. OBTAIN APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO REMOVAL.
- 15. ALL TREES INSTALLED ABOVE RETAINING WALLS UTILIZING GEO-GRID MUST BE HAND DUG TO PROTECT GEO-GRID. IF GEO-GRID MUST BE CUT TO INSTALL TREES, APPROVAL MUST BE GIVEN BY OWNER'S REPRESENTATIVE PRIOR TO DOING WORK.
- 16. ALL TREES IN SEED OR TURF AREAS SHALL RECEIVE MULCH RINGS. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE FOR ANY TREES THAT WILL NOT BE MULCHED FOR EXCESSIVE MOISTURE REASONS.
- 17. SHRUB, GROUNDCOVER AND PERENNIAL BEDS ARE TO BE CONTAINED BY BEND-A-BOARD. EDGER IS NOT REQUIRED WHEN ADJACENT TO CURBS, WALLS, WALKS OR SOLID FENCES WITHIN 3" OF PRE-MULCHED FINAL GRADE. EDGER SHALL NOT BE REQUIRED TO SEPARATE MULCH TYPES UNLESS SPECIFIED ON THE PLANS.
- 18. ALL SHRUB BEDS ARE TO BE MULCHED LANDSCAPE SHREDDED BARK MULCH OVER GEOTEXTILE WEED CONTROL FABRIC AS SPECIFIED IN THE DETAILS AND TECHNICAL SPECIFICATIONS OR MATERIALS SCHEDULE. ALL GROUND COVER AND PERENNIAL FLOWER BEDS SHALL BE MULCHED WITH LANDSCAPE MULCH AS SPECIFIED IN THE DETAILS AND TECHNICAL SPECIFICATIONS OR MATERIALS SCHEDULE. NO WEED CONTROL FABRIC IS REQUIRED IN GROUNDCOVER OR PERENNIAL AREAS.
- 19. AT SEED AREA BOUNDARIES ADJACENT TO EXISTING NATIVE AREAS, OVERLAP ABUTTING NATIVE AREAS BY THE FULL WIDTH OF THE SEEDER.
- 20. EXISTING TURF AREAS THAT ARE DISTURBED DURING CONSTRUCTION, ESTABLISHMENT AND THE MAINTENANCE PERIOD SHALL BE RESTORED WITH NEW SOD TO MATCH EXISTING TURF SPECIES. DISTURBED NATIVE AREAS WHICH ARE TO REMAIN SHALL BE OVER SEEDED AND RESTORED WITH SPECIFIED SEED MIX.
- 21. CONTRACTOR SHALL OVER SEED ALL MAINTENANCE OR SERVICE ACCESS BENCHES AND ROADS WITH SPECIFIED SEED MIX UNLESS OTHERWISE NOTED ON THE PLANS.
- 22. ALL SEEDED SLOPES EXCEEDING 25% IN GRADE (4:1) SHALL RECEIVE EROSION CONTROL BLANKETS. PRIOR TO INSTALLATION, NOTIFY OWNER'S REPRESENTATIVE FOR APPROVAL OF LOCATION AND ANY ADDITIONAL COST IF A CHANGE ORDER IS NECESSARY.
- 23. WHEN COMPLETE, ALL GRADES SHALL BE WITHIN +/- 1/8" OF FINISHED GRADES AS SHOWN ON THE PLANS
- 24. SOFT SURFACE TRAILS NEXT TO MANICURED TURF OR SHRUB BEDS SHALL BE CONTAINED WITH 3" x 14 GAUGE GREEN ROLL TOP EDGER, RYERSON OR EQUAL.
- 25. PRIOR TO THE PLACEMENT OF MULCH AND WEED FABRIC, A GRANULAR, PRE-EMERGENT, WEED CONTROL AGENT SHALL BE ADDED TO ALL PLANTING BEDS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION, EXCEPT AROUND ORNAMENTAL GRASSES.
- 26. THE CONTRACTOR IS EXPECTED TO KNOW AND UNDERSTAND THE CITY AND COUNTY SPECIFICATIONS FOR LANDSCAPE AND IRRIGATION. IN CASES OF DISCREPANCIES THE HIGHER OF THE TWO STANDARDS SHALL HAVE PRECEDENCE.
- 27. THE DEVELOPER, HIS SUCCESSORS AND ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND REPLACEMENT OF ALL IMPROVEMENTS SHOWN OR INDICATED ON THE APPROVED LANDSCAPE PLAN ON FILE IN THE PLANNING DEPARTMENT.

LAYOUT NOTES

- WRITTEN DIMENSIONS WILL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
 SHOULD SITE CONDITIONS BE DIFFERENT THAN WHAT IS INDICATED ON THE DRAWINGS CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY FOR CLARIFICATION.
- CURVED WALKS AND CURB EDGES ARE INTENDED TO BE CONSTRUCTED WITH SMOOTH FLOWING CURVES. ANYTHING OTHER THAN SMOOTH FLOWING CURVES WILL BE REJECTED.
 THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS WHICH ARE NECESSARY
- TO PERFORM THE PROPOSED WORK.

 5. THE CONTRACTOR SHALL PROVIDE A STAKED LAYOUT OF ALL SITE IMPROVEMENTS FOR INSPECTION BY THE OWNER'S REPRESENTATIVE AND MAKE MODIFICATIONS AS REQUIRED
- AT NO ADDITIONAL COST TO THE OWNER.

 6. THE CONTRACTOR SHALL INSTALL SLEEVING FOR IRRIGATION IMPROVEMENTS PRIOR TO INSTALLING CONCRETE FLATWORK. REFER TO IRRIGATION PLANS.
- LAYOUT WALKS, SCORE JOINTS AND PAVING PATTERNS AS CLOSELY AS POSSIBLE TO PLANS, DETAILS, AND SPECIFICATIONS. DO NOT DEVIATE FROM PLANS UNLESS SPECIFIC APPROVAL IS OBTAINED FROM THE OWNER'S REPRESENTATIVE.
- 8. ALL WORK SHALL BE CONFINED TO THE AREA WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. ANY AREAS OR IMPROVEMENTS DISTURBED OUTSIDE THESE LIMITS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THE CONTRACTOR REQUIRES A MODIFICATION TO THE CONSTRUCTION LIMITS, WRITTEN PERMISSION MUST BE OBTAINED FROM THE LANDSCAPE ARCHITECT PRIOR TO ANY DISTURBANCE OUTSIDE OF THE LIMITS OF WORK. SEE TECHNICAL SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR SUPERVISING ALL SAFETY SURFACING AND PAVEMENT DURING THE CURING PROCESS.

PLANTING SCHEDULE

SYM.	COMMON NAME	BOTANICAL NAME	SIZE & COND.	EXPOSURE	WATER
	— EVERGREEN TREES ———				
(+)	CBS COLORADO SPRUCE	PICEA PUNGENS	B&B	PART SUN	MED
	— DECIDUOUS TREES ———				
$\overline{}$	NAR NARROWLEAF COTTONWOOD CHO NATIVE CHOKECHERRY ANG QUAKING ASPEN	POPULUS ANGUSTIFOLIA PRUNUS VIRGINIANA POPULUS TREMULOIDES	3" CAL, B&B 2" CAL, B&B 2" CAL, B&B	SUN PART SUN PART SUN	LOW-MED LOW-MED MED
	— DECIDUOUS SHRUBS ———				
	ART DWARF ARCTIC BLUE WILLOW LMC MISS CANADA LILAC PEK PEKING COTONEASTER PIX PIXWELL GOOSEBERRY RRO REDLEAF ROSE SHC SHUBERT CHOKECHERRY WRO WOODS ROSE	SALIX PURPUREA 'NANA' SYRINGA X PRESTONIAE 'MASS CANADA' COTONEASTER ACUTIFOLIA RIBES HIRTELLUM PIXWELL ROSA GLAUCA PRUNUS VIRGINIANA ROSA WOODSII	#5 CONT.	SUN/PART SUN SUN/PART SUN/PART SUN/PART SUN/PART SUN/PART	MED XERIC LOW-MED LOW-MED LOW-MED MED LOW
	— ORNAMENTAL GRASSES —				
	IRG INDIAN RICEGRASS AVG BLUE AVENA BFE BLUE FESCUE	ACHNATHERUM HYMENOIDES HELICTOTRICHON SEMPEVIRENS FESTUCA GLAUCA 'ELIJAH BLUE'	#1 CONTAINER #1 CONTAINER #1 CONTAINER	SUN SUN/PART SUN	XERIC XERIC XERIC
	— PERENNIAL PLANTS —				
000 000 000	SMN MAY NIGHT SALVIA SLV SILVERWEED SWW SWEET WOODRUFF LUP RUSSEL HYBRIDS LUPINE DRA DRAGON'S BLOOD SEDUM YAM MOONSHINE YARROW	S. SYLVESTRIS x 'MAINACHT' POTENTILLA ANSERINE GALIUM ODORATUM LUPINUS 'RUSSELL STRAIN' SEDUM SPURIUM 'DRAGON'S BLOOD' ACHILLEA 'MOONSHINE'	#1 CONT. #1 CONT. #1 CONT. #1 CONT. #1 CONT.		

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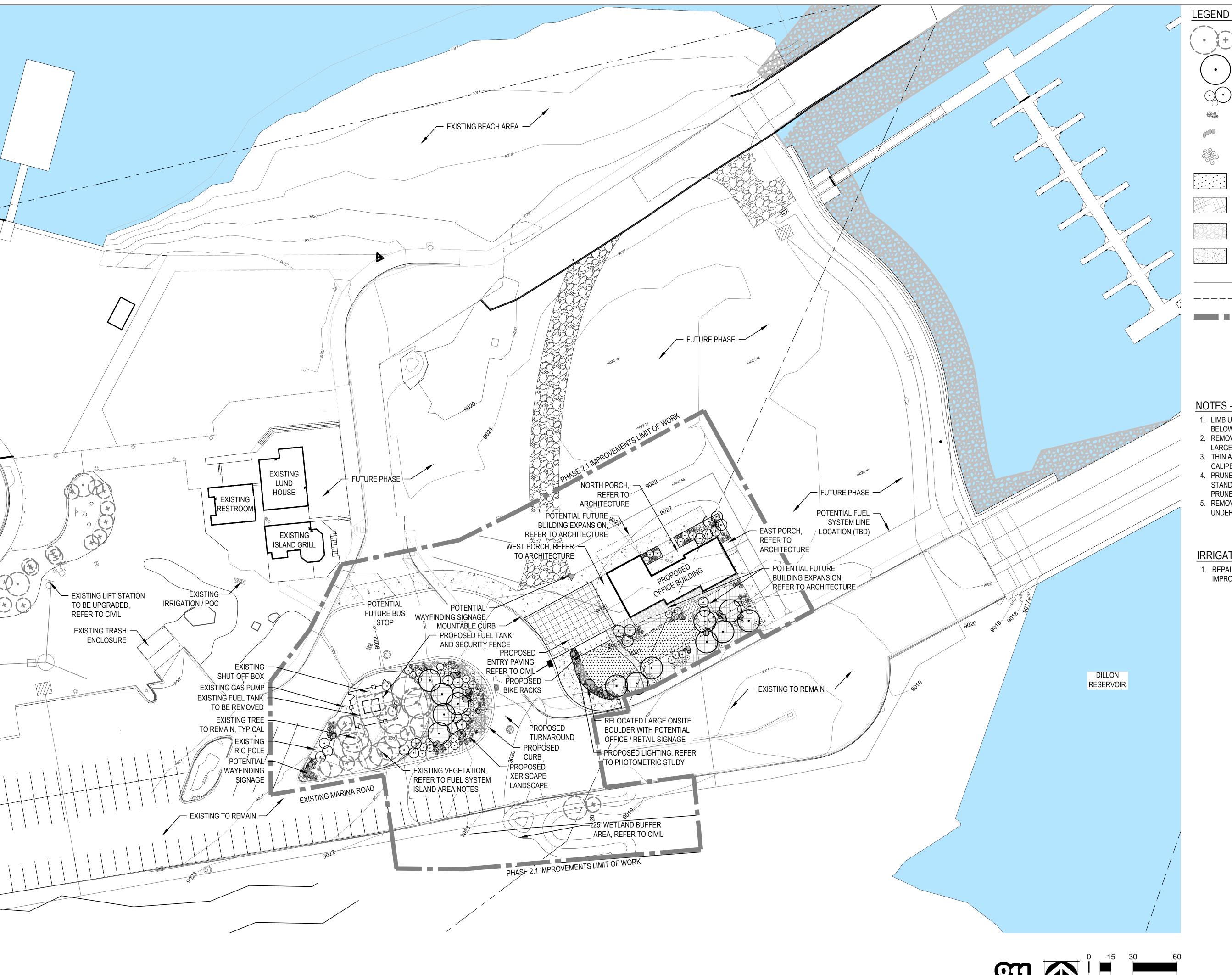
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DATE:

SHEET TITLE: LANDSCAPE NOTES & SCHEDULE

L-100

CHECKED BY:



ES AR;

EXISTING TREES TO REMAIN

DECIDUOUS TREES; DETAIL 1 / L-300

SHRUBS; DETAIL 2 / L-300 ORNAMENTAL GRASS; DETAIL 3 / L-300

LANDSCAPE BOULDERS FROM ONSITE

PERENNIAL PLANTING; DETAIL 3 / L-300

SHORT GRASS SEED MIX

COBBLE DRIP LINE

LANDSCAPE BED, SHREDDED BARK MULCH



CRUSHER FINES PATH; DETAIL 6 / L-300

BENDA BOARD EDGER; DETAIL 5 / L-300 SPADE CUT EDGER; DETAIL 4 / L-300

LIMIT OF WORK

NOTES - FUEL SYSTEM ISLAND AREA

- 1. LIMB UP ALL 3.5"+ CALIPER DECIDUOUS TREES WITH BRANCHES BELOW 4' IN HEIGHT.
- 2. REMOVE ALL SUCKERS FROM THE BASE OF DECIDUOUS TREES LARGER THAN 2.5" CALIPER.
- 3. THIN AND REMOVE ALL VOLUNTEER TREES LESS THAN 1"
- 4. PRUNE ALL SHRUBS FOLLOWING BEST PRACTICE INDUSTRY STANDARDS. NO MORE THAN 1/3 OF ANY SHRUB SHALL BE PRUNED OR REMOVED IN ONE SEASON.
- . REMOVE ALL INVASIVE SPECIES AND NOXIOUS WEEDS FROM UNDERSTORY USING A MECHANICAL METHOD.

IRRIGATION NOTES

1. REPAIR AND REPLACE DAMAGED IRRIGATION WITHIN PHASE 1 IMPROVEMENTS LIMIT OF WORK BOUNDARY.

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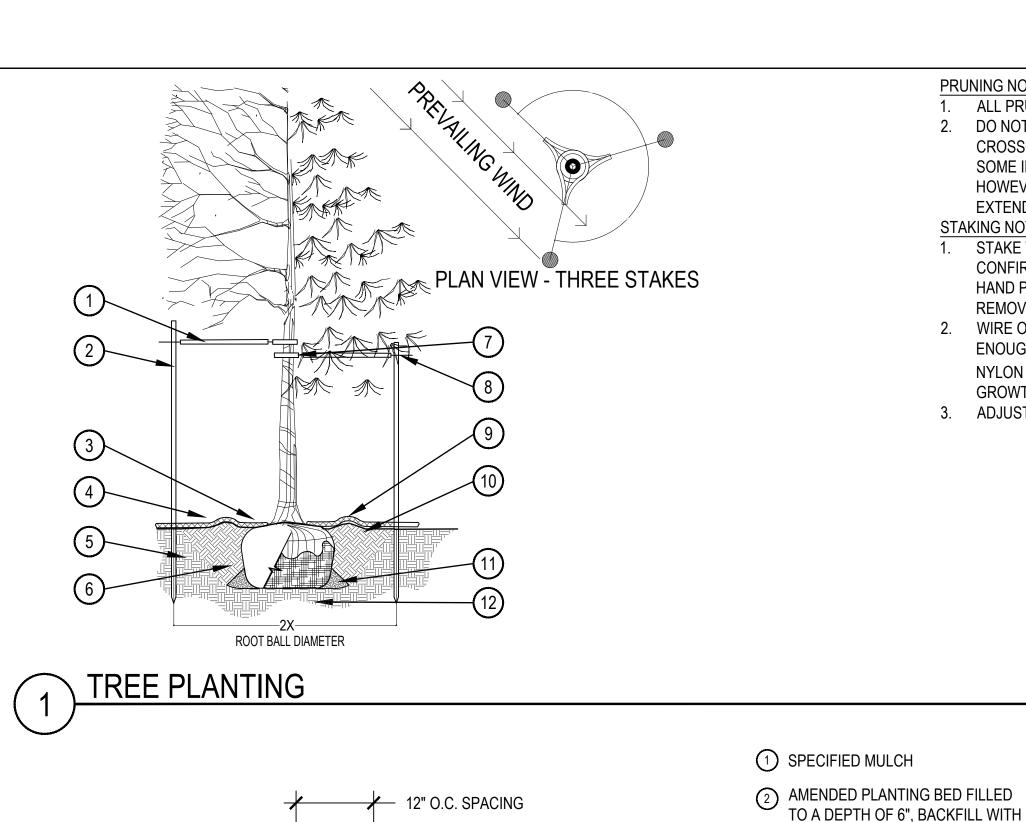
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TOWN PLANNING

SHEET TITLE: LANDSCAPE

L-200



PRUNING NOTES: ALL PRUNING SHALL COMPLY WITH ANSI A300 STANDARDS.

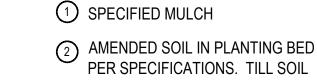
DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS AND BROKEN BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED. HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

STAKING NOTES:

- STAKE TREES PER DIAGRAM. AFTER A MINIMUM OF (3) THREE YEARS CONFIRM TREE IS ESTABLISHED. CHECK FOR ROOTBALL STABILITY. APPLY HAND PRESSURE TO TRUCK OF TREE, WHEN ROOTBALL DOES NOT MOVE,
- WIRE OR CABLE SHALL BE MIN. 12 GAUGE, TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. NYLON STRAPS SHALL BE LONG ENOUGH TO ACCOMMODATE 1-1" OF GROWTH AND BUFFER ALL BRANCHES FROM WIRE.
- ADJUST STAKING, STRAPS AND GUY WIRES ANNUALLY.

- 1 PLACE MIN. 2" PVC PIPE AROUND 7 GROMMETED NYLON STRAPS EACH WIRE. EXPOSED WIRE SHALL BE MAX. 2" EACH SIDE
- 2 INSTALL STAKING PER SPECIFICATIONS
- (3) PLANT TREE SO THAT FIRST ORDER MAJOR ROOT IS 1"-2" ABOVE FINAL GRADE.
- (4) 3" DEEP MULCH RING PLACED A MINIMUM OF 4 FT. IN DIAMETER ON TOP OF WEED FABRIC. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK (FINISHED GRADE REFERENCES TOP OF MULCH).
- (5) 1:1 SLOPE ON SIDES OF PLANTING
- (6) REMOVE ALL TWINE, ROPE, BURLAP AND WIRE FROM ENTIRE ROOT BALL AND TRUNK

- 8 GALVANIZED WIRE, MIN. 12 GAUGE CABLE - TWIST WIRE ONLY TO KEEP FROM SLIPPING
- 9 4-6" HIGH WATER SAUCER IN NON-TURF AREAS.
- 10 BACKFILL WITH PLANT MIX. PLANT MIX SHALL CONSIST OF EQUAL PARTS TOPSOIL, COMPOST, AND EXCAVATED SOIL. WATER THOROUGHLY WHEN BACKFILLING
- 11) PLACE SOIL AROUND ROOT BALL FIRMLY, DO NOT COMPACT OR TAMP. SETTLE SOIL WITH WATER TO FILL ALL AIR POCKETS.
- 12) PLACE ROOT BALL ON UNDISTURBED SOIL TO PREVENT SETTLEMENT.



PRUNE ALL DEAD OR

TO PLANTING

DAMAGED WOOD PRIOR

SET SHRUB ROOT-BALL 1"

HIGHER THAN FINISH BED

PER SPECIFICATIONS. TILL SOIL TO A DEPTH OF EIGHT INCHES.

(3) FINISH GRADE (TOP OF MULCH)

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OWNER:

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Suite 207

1. BROKEN OR CRUMBLING ROOT-BALLS WILL BE REJECTED

2. CARE SHOULD BE TAKEN NOT TO DAMAGE THE SHRUB OR ROOT-BALL WHEN REMOVING IT FROM ITS CONTAINER 3. ALL JUNIPERS SHOULD BE

PLANTED SO THE TOP OF THE ROOT-BALL OCCURS ABOVE THE FINISH GRADE OF THE MULCH LAYER

4. DIG PLANT PIT TWICE AS WIDE AND HIGH AS THE CONTAINER

SHRUB PLANTING

SCALE: 1-1/2" = 1'-0"

1 FINISHED GRADE - TOP OF SOD THATCH LAYER AND TOP OF MULCH OR CRUSHER FINES SHALL BE FLUSH WITH TOP OF

2 TURF THATCH

EDGER

3 AMENDED SOIL PER **SPECIFICATIONS**

(4) SUBGRADE

(5) BEND-A-BOARD EDGER

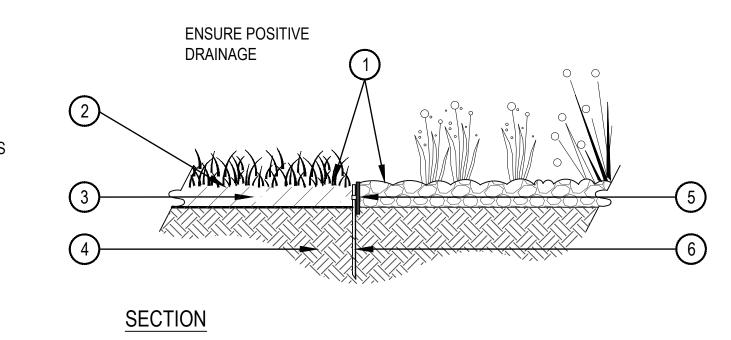
(6) EDGER STAKE

1. THERE SHALL BE NO EXPOSED SHARP / JAGGED EDGES. 2. CONTRACTOR SHALL INSTALL STAKES AS REQUIRED BY THE

ADJOINING LANDSCAPE TYPICALLY IRRIGATED DRY LAND

SCALE: 3/16" = 1'-0"

- 2 VERTICAL SPADE CUT EDGE FILLED WITH SPECIFIED MULCH, TAPER EDGE OF BED SO MULCH IS DEEPER AGAINST SPADED EDGE.
- 3 SPECIFIED DEPTH OF MULCH (TYPICALLY WOOD MULCH 3"-4"
- 4 PLANTING BED
- (5) IRRIGATION HEADS SHOULD BE LOCATED ADJACENT TO MULCH BEDS, OFFSET HEAD INTO GRASS AREA TO ENSURE STABLE SUPPORT.



2X CONTAINER

SCALE: 1" = 1'-0"

MANUFACTURER.

SPADE CUT EDGE

TURF), RE: LANDSCAPE PLANS.

1. SPADE CUT EDGE TO UTILIZED FOR TRANSITION BETWEEN PLANTING

BEDS AND PLANTING POCKETS AND ADJACENT LANDSCAPE (EXCEPT

2. IF IRRIGATION HEAD IS LOCATED ADJACENT TO MULCH BEDS, OFFSET

HEAD INTO GRASS AREA TO ENSURE STABLE SUPPORT.

NOTE

SCALE: 1/2" = 1'-0"

BEND-A-BOARD EDGER

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TOWN PLANNING

SHEET TITLE: LANDSCAPE **DETAILS**

L-300

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

SCALE: 1" = 1'-0"

33% ORGANIC MATTER, 33%

NOTE: FINAL SPECIES AND

ON SITE AND APPROVED BY

LANDSCAPE ARCHITECT.

LOCATIONS TO BE DETERMINED

TOPSOIL

(3) CENTER OF PLANT

SAWDUST AND 33% SCREENED

(1) SLOPE ADJACENT GRADE AWAY FROM TRAIL, SWALE IF NECESSARY 2 EDGE TYPE, SEE PLAN. SPADE CUT EDGER (RE. DETAIL

4/L-300) OR BENDA BOARD

- EDGER (RE: DETAIL 5/L-300) (3) 4" DEPTH CRUSHER FINES;
- COMPACTED IN 2 2" LIFTS
- (4) WEED FABRIC

WHEN PLANTED ON A CURVE ORIENT ROWS TO FOLLOW

THE LONG AXIS OF AREAS WHERE PLANTS ARE MASSED.

- (5) COMPACTED SUBGRADE COMPACTED TO 95% PROCTOR DENSITY
- 6 UNDISTURBED SOIL

1. REFER TO CIVIL DRAWINGS FOR SITE GRADING.

2. COMPACT WET FOR BEST RESULTS. 3. USE A SMALL (4') RIDING ROLLER TO COMPACT TRAIL. 4. CROWN TRAIL IN FLAT AREAS (AS SHOWN).

5. CROSS-SLOPE TRAIL AT 1-2% WITH GRADE WHERE TOPOGRAPHY DICTATES.

1. RE-SEED DISTURBED EDGES OF TRAIL UPON COMPLETION OF TRAIL CONSTRUCTION.

PERENNIAL / ORNAMENTAL GRASS PLANTING

WIDTH VARIES RE: PLAN

REVEGETATION NOTES:

COMPACTION NOTES:

MIN.

2. FOLLOW SEEDING SPECIFICATIONS AS PROVIDED BY LANDSCAPE ARCHITECT.

CRUSHER FINES PATH

CHECKED BY: DRAWN BY:





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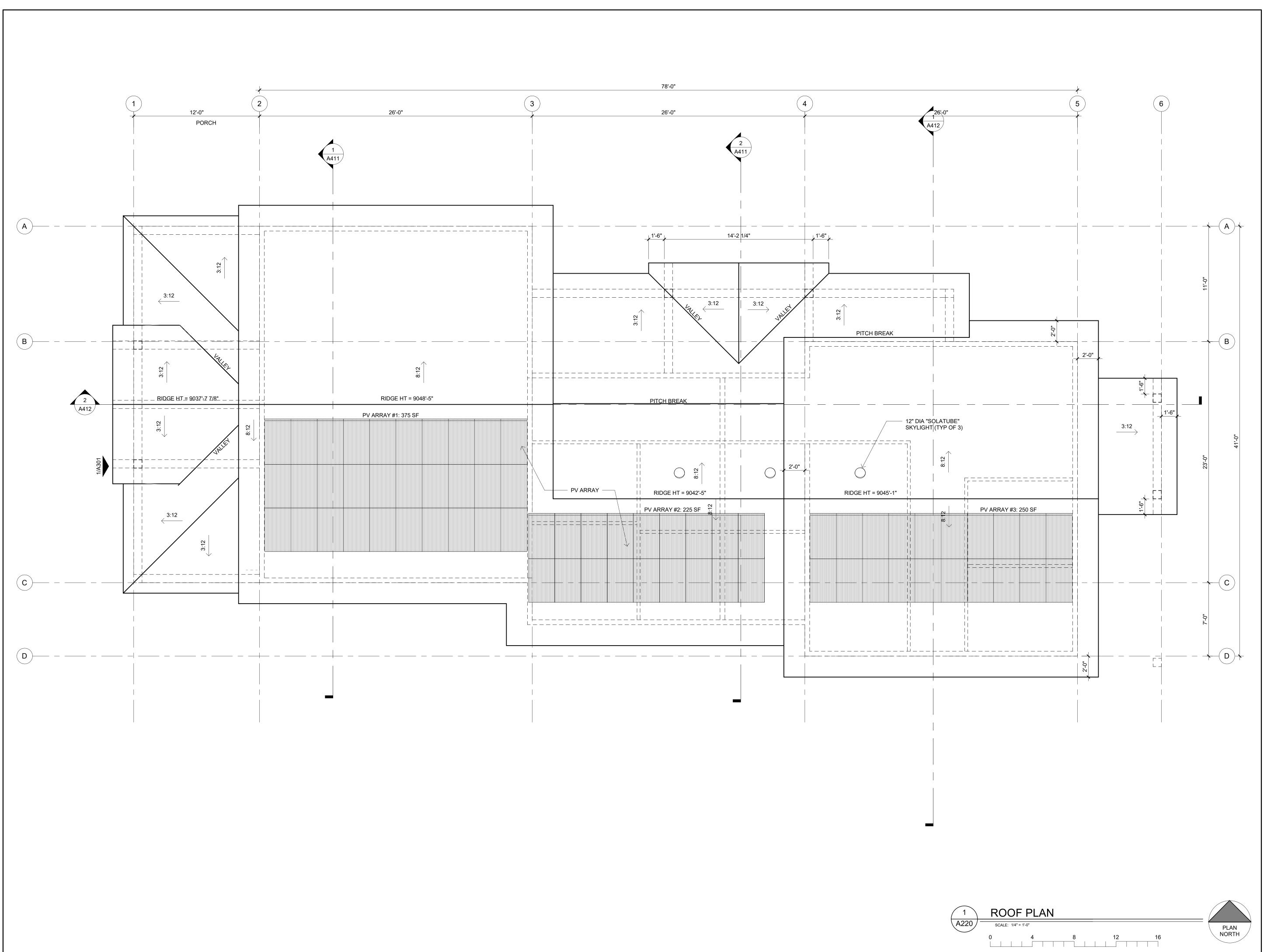
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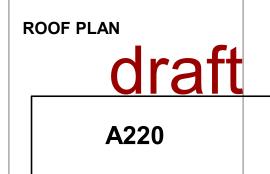
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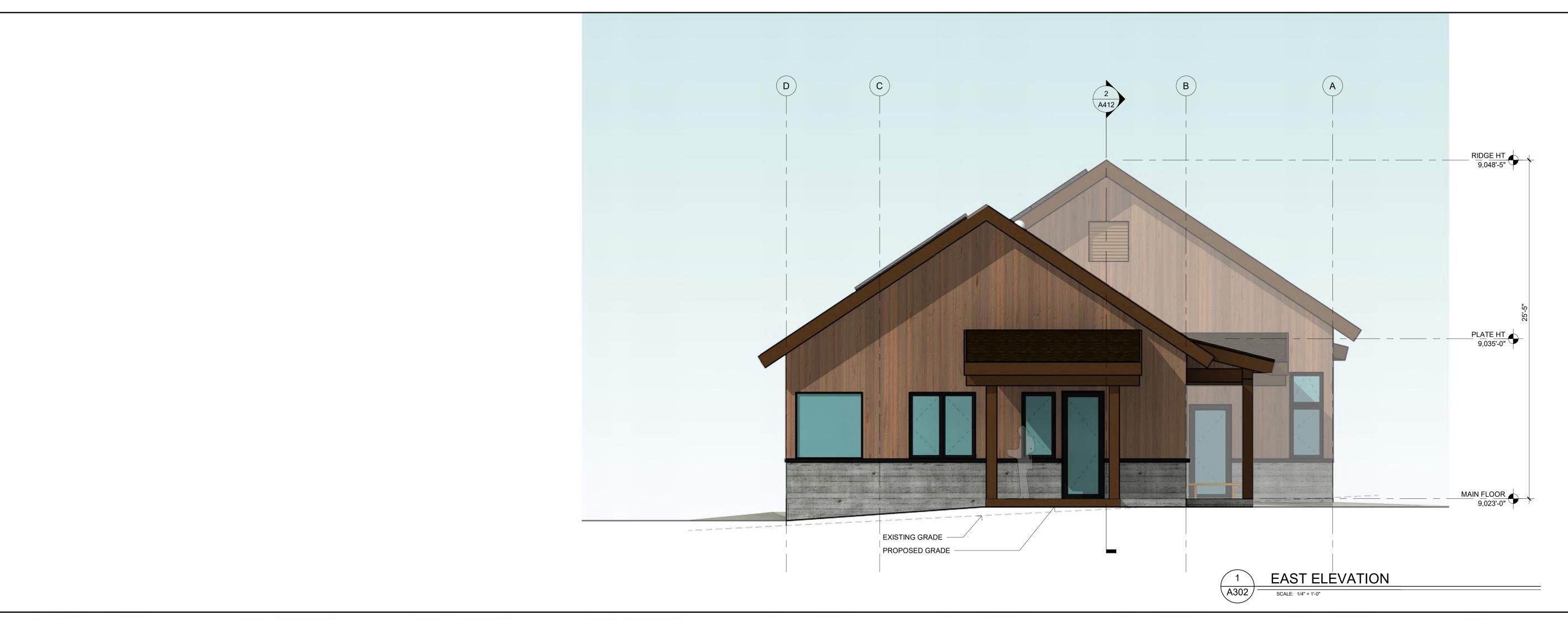
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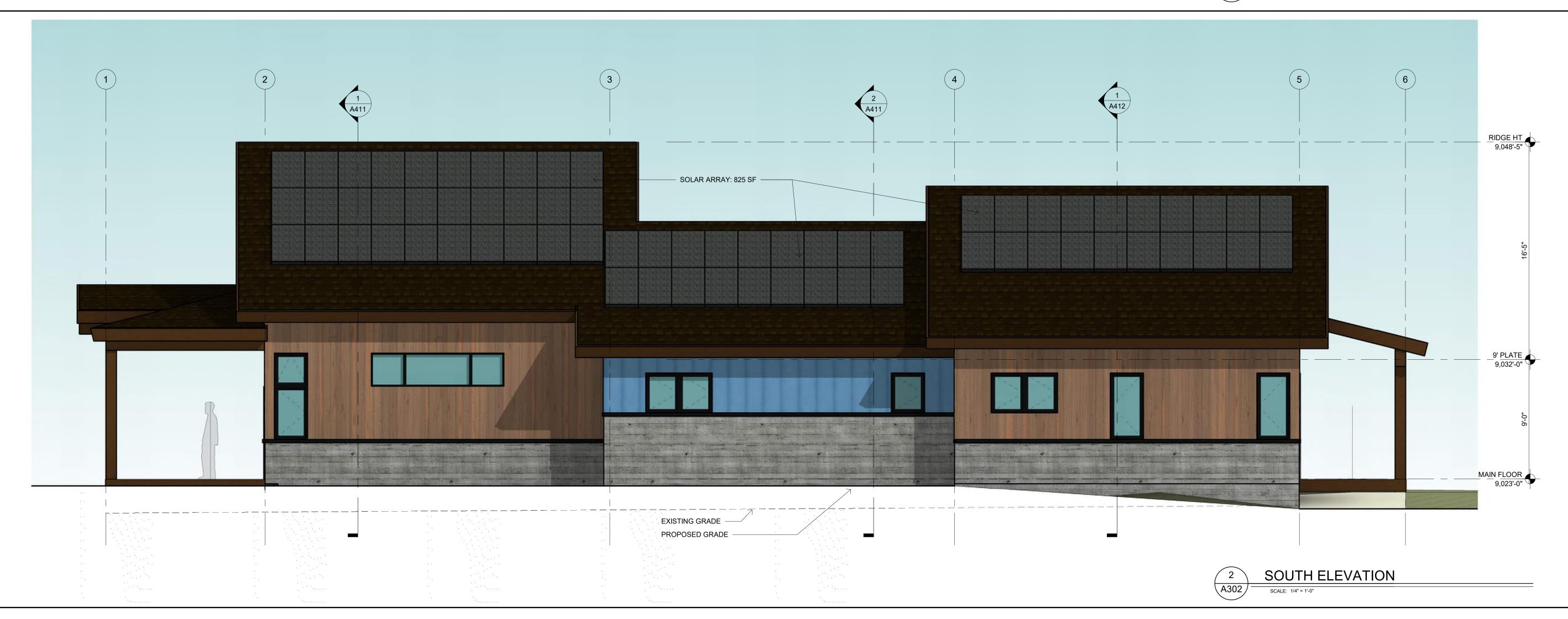
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exterior elevations

draft

A302









EXTERIOR MATERIALS KEY

E1 PRIMARY ROOF:
ASPHALT SHINGLES,
COLOR: TAMKO "WEATHERED WOOD"

E6 SECONDARY SIDING:
BRIDGERSTEEL ULTRA BATTEN
13 3/4" COVERAGE
COLOR: "REGAL BLUE"



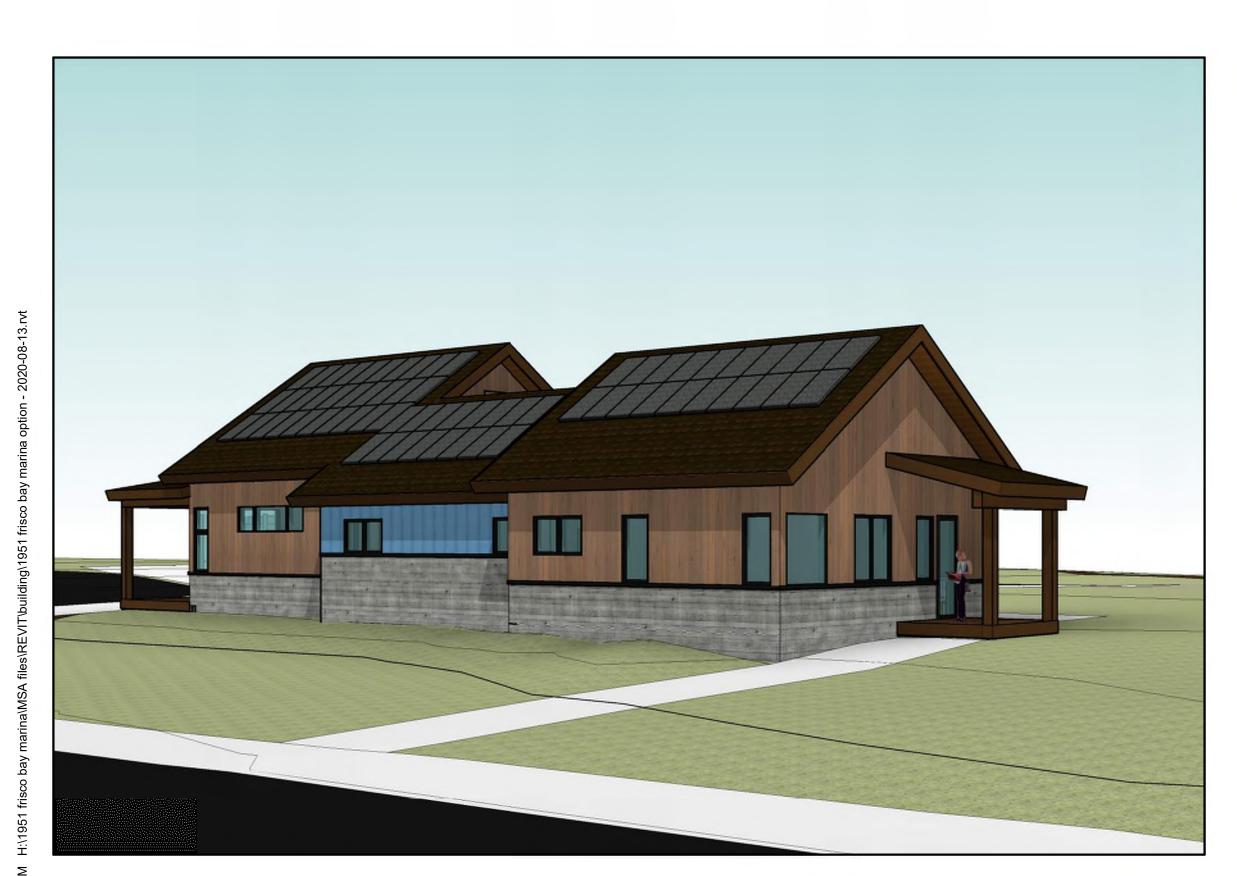
E3 FASCIA, TRIM, BEAMS, MISC WOOD COLOR: SW#3525 "CHESTNUT" SEMI-TRANSPARENT STAIN



E10 CONCRETE BASE W/ BARNWOOD FORMLINERS













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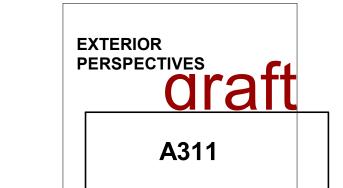
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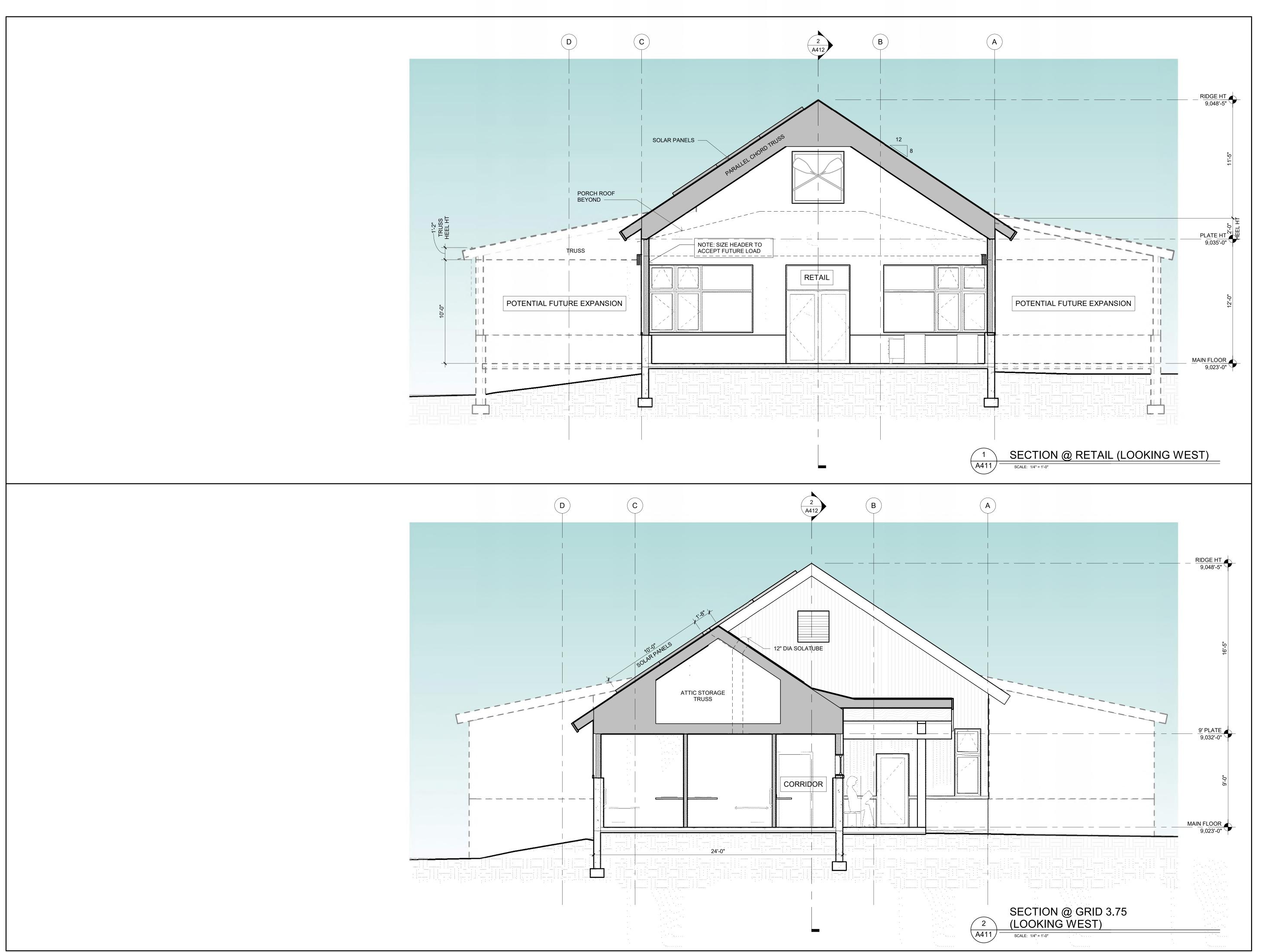
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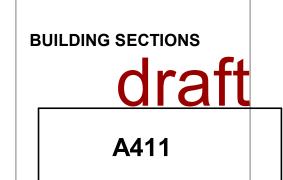
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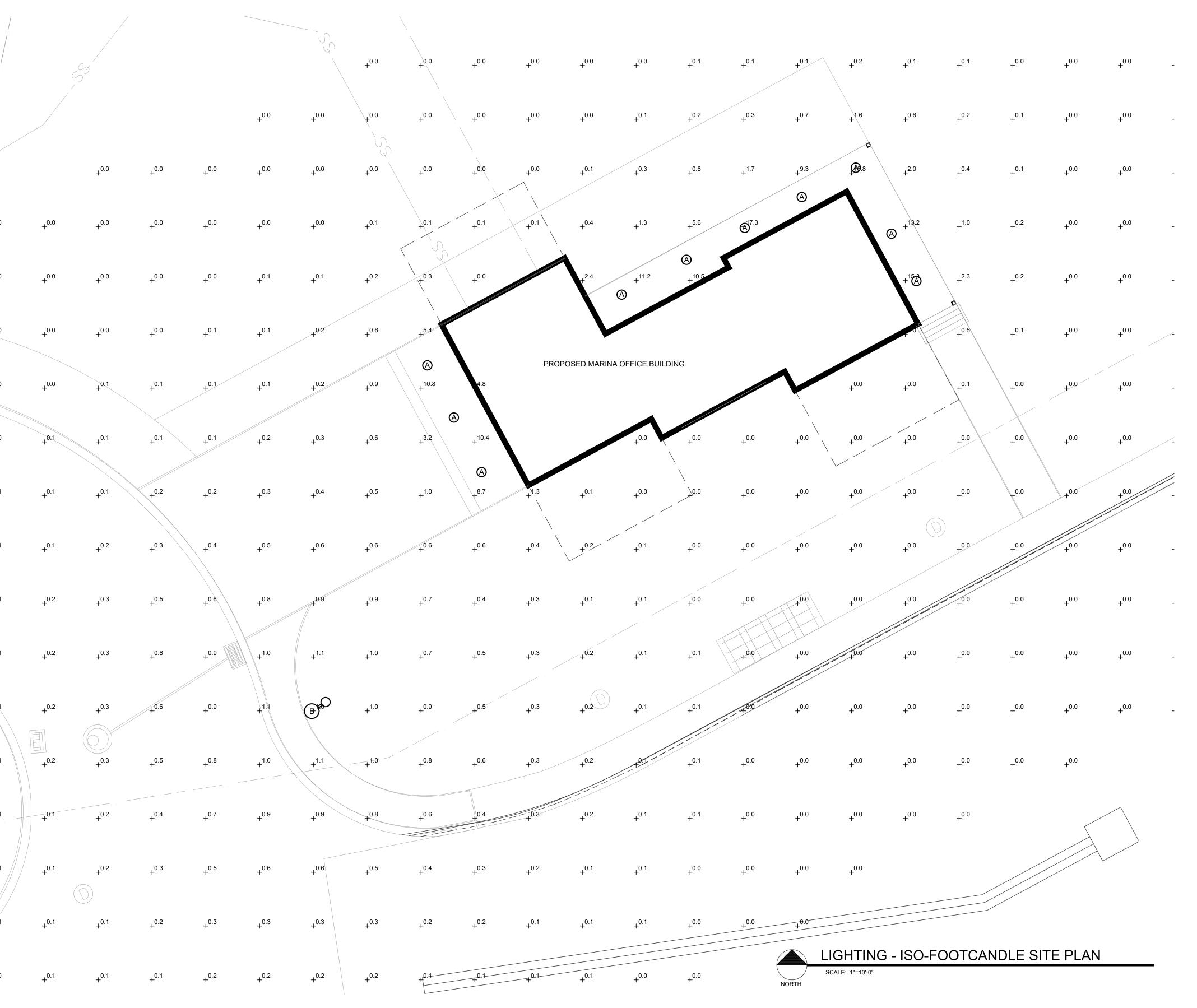
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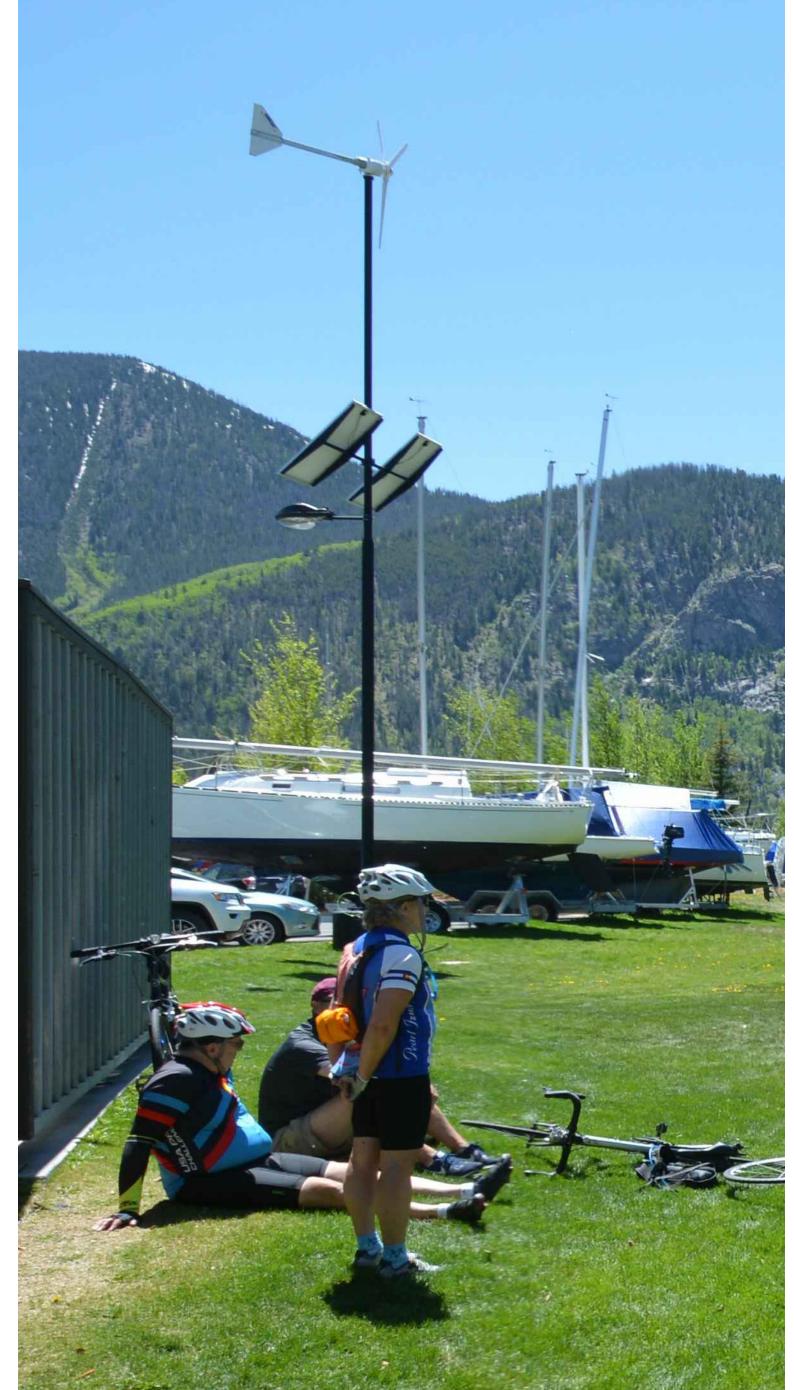
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BUILDING SECTIONS

draft

A412





LIGHT POLE DETAIL NOTES: THE NEW POLE MOUNTED LIGHT WILL BE MOUNTED ON A POLE TO MATCH THE EXISTING POLES AS SHOWN IN THE PHOTO. PROVIDE THE POLE, POLE

BASE, SOLAR PANELS. THE WIND GENERATORS WILL NOT BE USED ON THE NEW POLE LIGHTS.

	SITE LIGHTING LUMINAIRE SCHEDULE				
TYPE	MANUFACTURER CATALOG NO.	MANUFACTURER CATALOG NO.	VOLTAGE MOUNTING	BALLAST/DRIVER LAMP SPECIFICATION	DESCRIPTION
А	PORTFOLIO LIGHTING LDS6B-10-15-D010TR-EU6B-1020- 35, 6LBS-1-H	APPROVED EQUIVALENT	120-277V RECESSED EXTERIOR CEILING	0-10V LED DIMMING 1500LM, 15.5W, 3500K, 80CRI	6" RECESSED DOWN LIGHT, SHALLOW WIDE BEAM SPUN ALUMINUM REFLECTOR, SELF FLANGE, SEMI- SPECULAR CLEAR FINISH, WET LISTED
B McGraw-edison lighting through approved Equivalent Pole Mounted 5782LM, 4000K, 45W, 70CRI TOPTIER SITE LED LIGHT FIXTURE, WET LISTED, LOW TEMPERATURE RATED, BLACK FINISH, POWER WILL IS PROVIDE FROM SOLAR PANELS LOCATED ON THE PO					

- 2. ALL POLES TO BE STRAIGHT POLE, COLOR TO MATCH LUMINAIRES. POLE SHAFT WILL BE RATED FOR WIND GUSTS OF 100 MILES/HOUR
 3. ALL OUTSIDE LIGHT SOURCES SHALL CONFORM TO ALL LOCAL MUNICIPAL ZONING & DEVELOPMENT CODES, LIGHT TRESPASS AND DARK SKY INITIATIVES. 4. ALL EXTERIOR BUILDING MOUNTED AND PARKING LOT LIGHTS ARE TO BE CONTROLLED THRU A PHOTOCELL, TIME CLOCK OR AUTOMATIC CONTROL SYSTEM FOR
- NOTIFY ENGINEER OF ANY OBSTRUCTIONS TO POLE PLACEMENT IMMEDIATELY BEFORE PROCEEDING.
 ORDER ALL EXTERIOR LUMINAIRES WITH MULTI-TAP BALLAST AND FIELD VERIFY AVAILABLE VOLTAGE FOR EACH LUMINAIRE PRIOR TO INSTALLATION.
- NOTES:

 1. THE ELECTRICAL CONTRACTOR IS TO ORDER ALL HARDWARE AND COMPONENTS NECESSARY FOR A FULL AND COMPLETE INSTALLATION AND MOUNTING OF ALL

1. CALCULATIONS ARE USING POINT-TO-POINT METHOD WITH TEN FEET DISTANCE BETWEEN CALCULATION GRID POINTS, USING VISUAL LIGHTING CALCULATIONS SOFTWARE.

- 2. THE IESNA STANDARDS REPRESENT THE LOWEST ACCEPTABLE LEVELS FOR PROPER VISIBILITY AND RECOMMEND MINIMUM MAINTAINED LIGHT LEVELS FOR OPEN PARKING LOTS AT 0.2-0.5 FOOT CANDLE LEVELS FOR ENHANCED SECURITY CONDITIONS.
- 3. PROPOSED LIGHT FIXTURES AND LIGHT LEVELS ARE TO BE IN ACCORDANCE WITH ALL LOCAL REQUIREMENTS.

EXTERIOR LIGHTING NOTES:

EXTERIOR LIGHTING DESIGN CONCEPTS:

- 1. LIGHT FIXTURES SHALL BE INSTALLED AND MAINTAINED IN A MANNER CONSISTENT WITH THE LIGHTING PLAN APPROVED BY THE CITY PLANNING DEPARTMENT. THE PROPERTY OWNER SHALL BE RESPONSIBLE
- 2. REFER TO LANDSCAPE PLANS FOR MATURE HEIGHT OF EXISTING AND PROPOSED TREES. 3. REFER TO ARCHITECTURAL ELEVATIONS FOR BUILDING HEIGHT INFORMATION.

FOR THE PROPER MAINTENANCE OF THE LIGHTING FIXTURES ON THEIR PROPERTY.

- 4. ALL EXTERIOR LIGHT FIXTURES SHALL BE OPERATED BY ASTRONOMICAL TIME CLOCK, PHOTOCEL LIGHTING CONTROL SYSTEM. 5. POST-CURFEW LIGHT LEVELS FOR PARKING LOTS SHALL BE REDUCED BY AT LEAST 50%. ENTRY LIGHTS MAY BE LEFT ON.
- 6. FACILITIES & SITE DEVELOPMENT OF THIS SITE ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CITY
- CONSTRUCTION SPECIFICATIONS, STANDARDS AND DETAILS.
 ALL OUTSIDE LIGHT SOURCES SHALL CONFORM TO ALL LOCAL ZONING & DEVELOPMENT CODES.
 PARKING LOT LIGHTS SHALL OPERATE DUSK TO PRE-SET OFF, SO THAT THEY EXTINGUISH ONE HOWAFTER CLOSE OF BUSINESS OR NO LATER THAN 10 P.M. BUILDING SECURITY LIGHTS WILL OPERATE FRODUSK TO DAWN.

PHOTOMETRIC CALCULATION DISCLAIMER:

LIGHTING PATTERN USED FOR LUMINAIRES REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY LUMINAIRE MAY VARY DUE TO VARIATION IN VOLTAGE, TOLERANCE IN LAMPS AND OTHER VARIABLE FIELD AND EQUIPMENT CONDITIONS.

CITY DEVELOPMENT ENGINEER

CITY PLANNER

THE CITY REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE CITY'S DEVELOPMENT STANDARDS, SUBJECT TO THESE PLANS BEING SEALED, SIGNED, AND DATED BY THE PROFESSIONAL OF RECORD.
REVIEW BY THE CITY DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN. THE CITY NEITHER ACCEPTS NOR ASSUMES ANY LIABILITY FOR ERRORS OR OMISSIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD. CONSTRUCTION MUST COMMENCE WITHIN ONE YEAR FROM THE DATE OF PLAN SIGNATURE.

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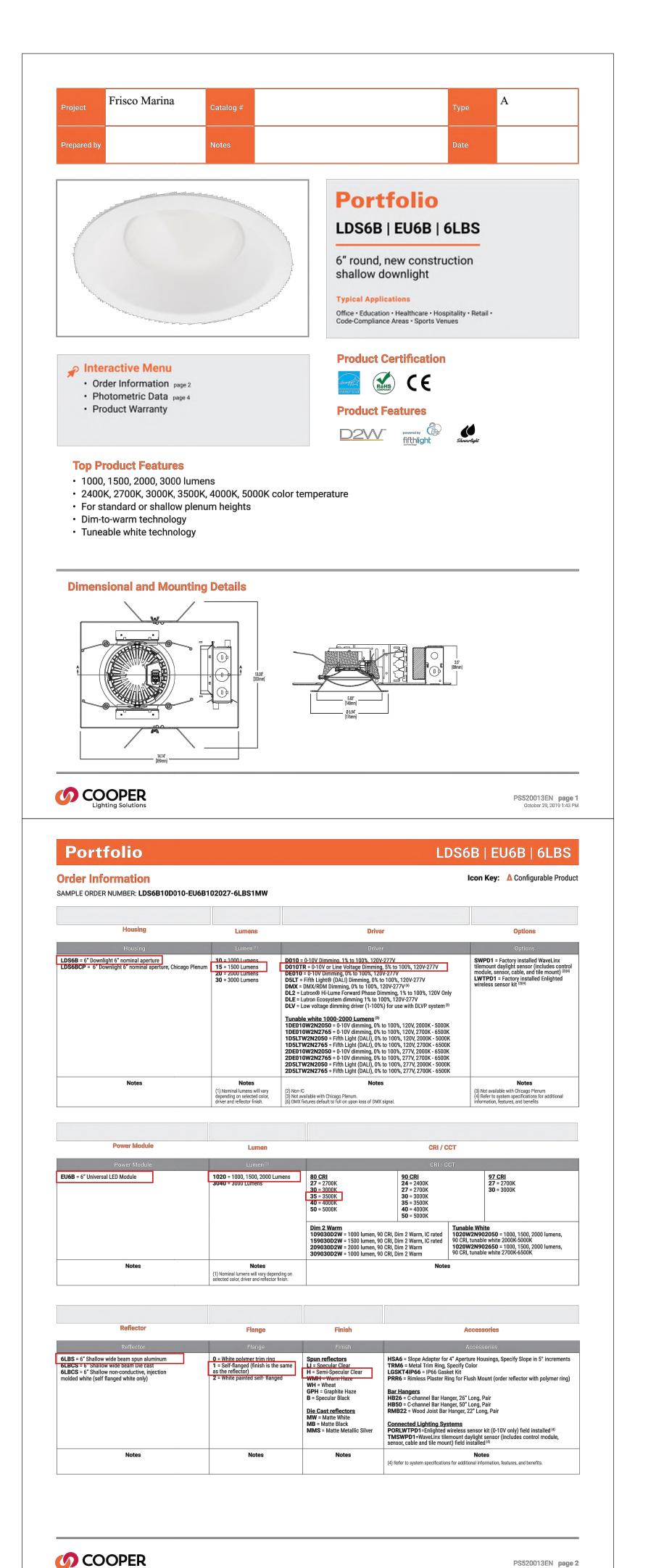
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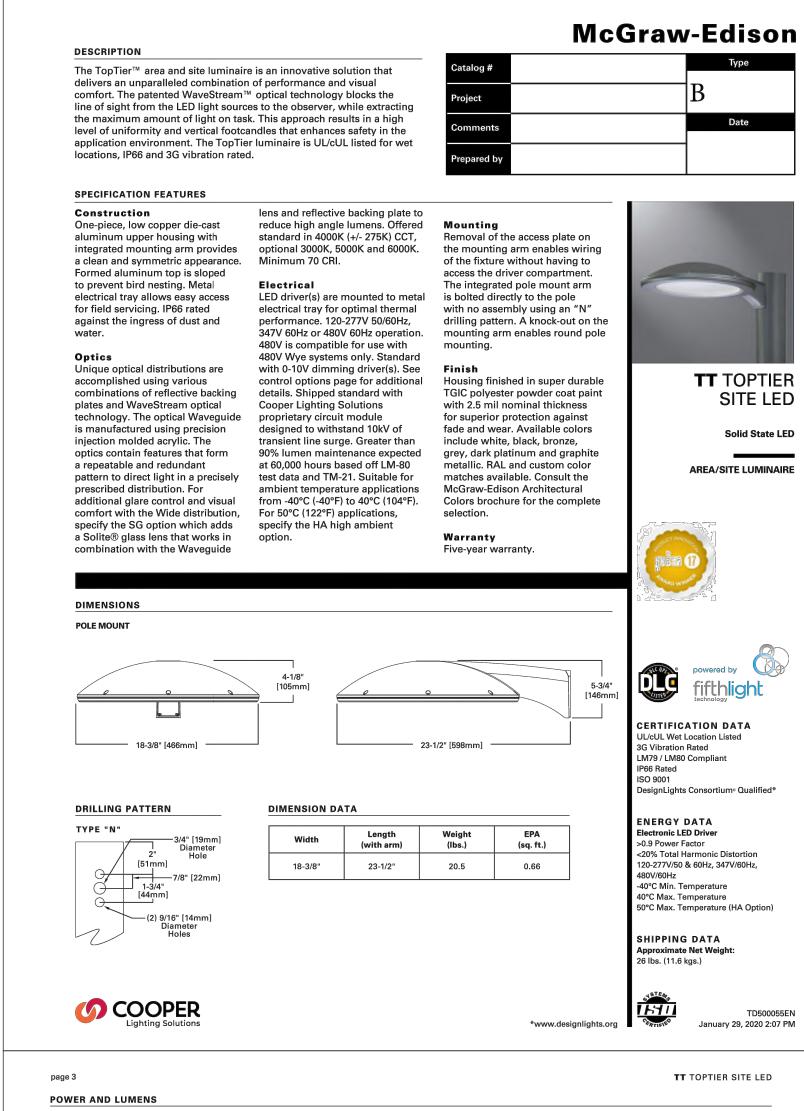
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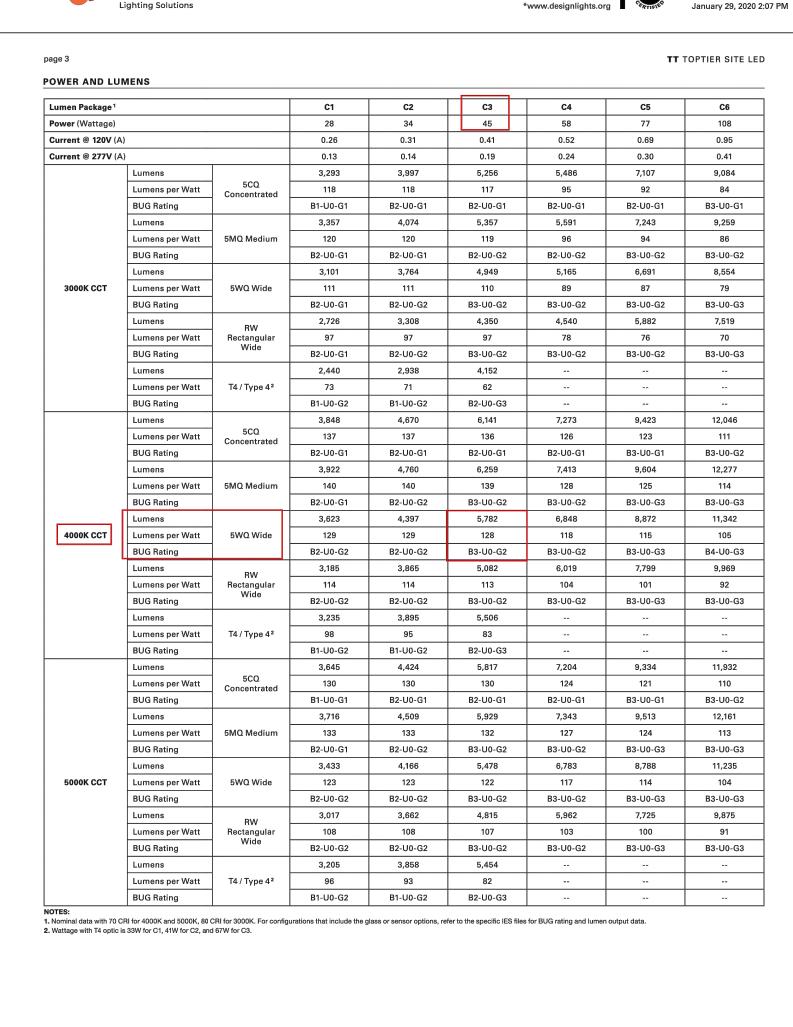
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08/14/20 TOWN PLANNING



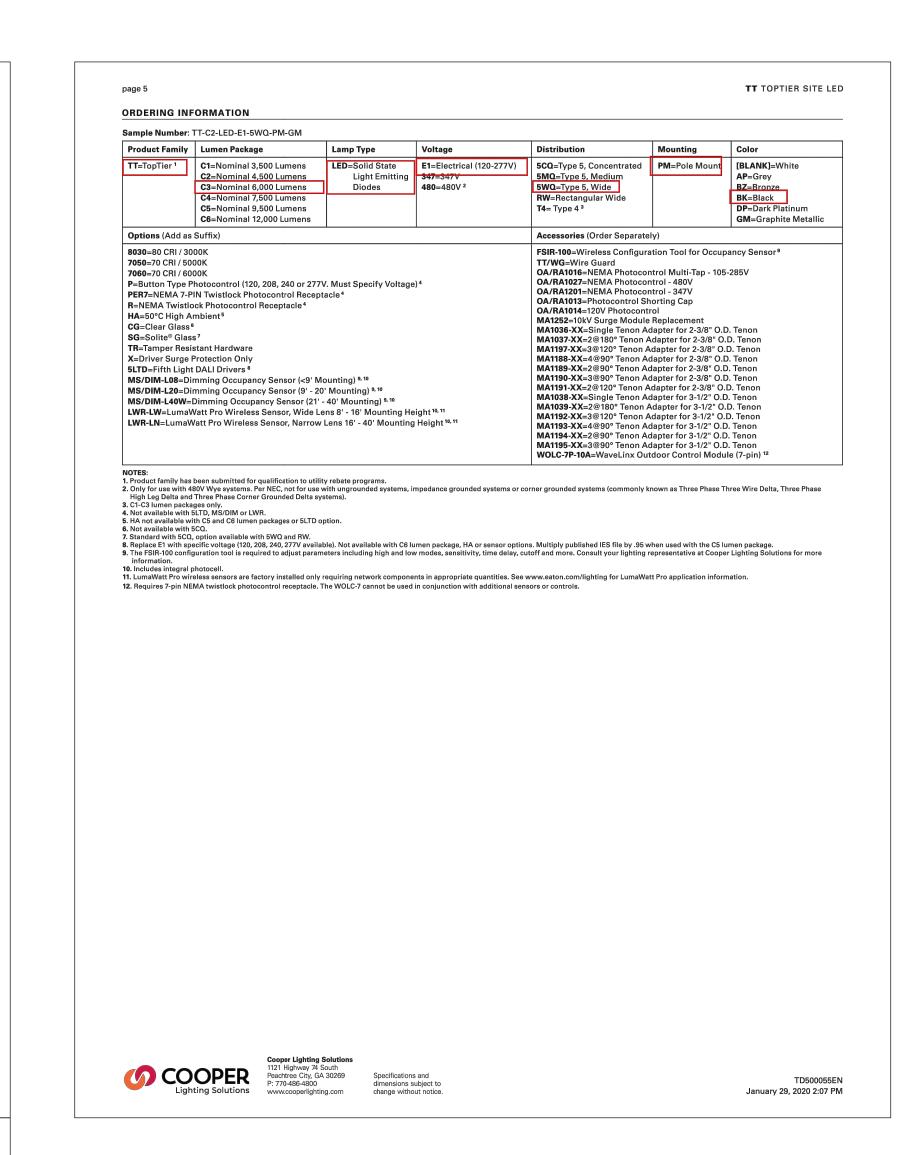




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